284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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DATA PACKAGE

SEMI-VOLATILE ORGANICS

PROJECT NAME : USACE018-44 DOD

FIRST ENVIRONMENT, INC.

10 Park Place, Bldg 1A, Suite 504

Butler, NJ - 07405

Phone No: 973-334-0003

ORDER ID : Q2819

ATTENTION : Al Smith

Laboratory Certification ID # 20012

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Cover Page

Order ID : Q2819

Project ID : USACE018-44 DOD

Client : First Environment, Inc.

Lab Sample Number	Client Sample Number
Q2819-01	22BP-N
Q2819-02	22BP-E
Q2819-03	22BP-W
Q2819-04	22BP-S
Q2819-05	11M-W
Q2819-06	11M-S
Q2819-07	11M-N
Q2819-08	11M-E
Q2819-09	84SB-E
Q2819-10	84SB-S
Q2819-11	84SB-W
Q2819-12	17M-S
Q2819-13	17M-E
Q2819-14	17M-W
Q2819-15	17M-N
Q2819-16	38M-S
Q2819-17	38M-N
Q2819-18	38M-W
Q2819-19	38M-E
Q2819-20	82H-E

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: 8/22/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

First Environment, Inc.
Project Name: USACE018-44 DOD
Project # N/A
Order ID # Q2819
Test Name: SVOC-TCL BNA -20

A. Number of Samples and Date of Receipt:
20 Solid samples were received on 08/08/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: SVOC-TCL BNA -20. 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 samples were analyzed on instrument BNA_P using GC Column ZB-SemiVolatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGA. The analysis of SVOC-TCL BNA -20 was based on method 8270E and extraction was done based on method 3541.

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

The Surrogate recoveries were met for all analysis except for 22BP-E [Terphenyl-d14 - 52%], 11M-S [Terphenyl-d14 - 48%], 11M-N [Terphenyl-d14 - 50%], 84SB-E [Terphenyl-d14 - 51%], 84SB-W [Terphenyl-d14 - 37%], 17M-S [Terphenyl-d14 - 52%], 17M-E [Terphenyl-d14 - 40%], 17M-W [Terphenyl-d14 - 51%] and 17M-N [Terphenyl-d14 - 47%] as per method one surrogate is allowed to failed, therefore no corrective action was taken also 22BP-S [2-Fluorobiphenyl - 37%, Terphenyl-d14 - 35%], 22BP-SRE [2,4,6-Tribromophenol - 38%, Terphenyl-d14 - 32%],84SB-S [2,4,6-Tribromophenol - 34%, 2-Fluorobiphenyl - 34%, Nitrobenzene-d5 - 36%, Terphenyl-d14 - 31%], 84SB-SRE [2,4,6-Tribromophenol - 32%, 2-Fluorobiphenyl - 43%, Terphenyl-d14 - 33%] All the failure samples in surrogates were reanalyzed to confirm the results as per method and reported in the data.

The Internal Standards Areas were met for all analysis.
The Retention Times were met for all analysis.
The MS recoveries met the requirements for all compounds.
The MSD recoveries met the requirements for all compounds.

The RPD for {Q2819-17MSD} with File ID: BP025521.D met criteria except for 4-Chloroaniline[21%] due to difference in results of MS and MSD.

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The Blank Spike for {PB169242BS} with File ID: BP025489.D met requirements for all compounds except for 1,4-Dioxane[65%] is failing marginally low therefore no corrective action taken.

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

The %RSD is greater than 20% in the Initial Calibration (Method 8270-BF082025.M) for Hexachlorocyclopentadiene, 2,4-Dinitrophenol these Compounds are passing on Linear regression.

The Continuous Calibration File ID BF143539.D met the requirements except for Pentachlorophenol but no positive hit in associated sample therefore no corrective action taken.

The Continuous Calibration File ID BP025487.D met the requirements except for 2,4-Dinitrophenol and 4,6-Dinitro-2-methylphenol but no positive hit in associated sample therefore no corrective action taken.

The Continuous Calibration File ID BP025528.D met the requirements except for Benzaldehyde but no positive hit in associated samples therefore no corrective action taken.

The Tuning criteria met requirements.

Samples 38M-S was diluted due to dirty matrix.

E. Additional Comments:
The Form 6 is not included in the data package because the Initial Calibration was performed using 8 points.

The not QT review data is reported in the Miscellaneous.

The soil samples results are based on a dry weight basis.

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.

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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_____

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

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following " Results Qualifiers" are used:

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

GC/MS SEMI-VOLATILE ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY

ORDER ID: Q2819 MATRIX: Solid

METHOD: 8270E/3541

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2.	GC/MS Tuning Specifications. DFTPP Meet Criteria. (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4.	GC/MS Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5.	GC/MS Calibration Requirements.			✓

The %RSD is greater than 20% in the Initial Calibration (Method 8270-BF082025.M) for Hexachlorocyclopentadiene, 2,4-Dinitrophenol these Compounds are passing on Linear regression.

The Continuous Calibration File ID BF143539.D met the requirements except for Pentachlorophenol but no positive hit in associated sample therefore no corrective action taken.

The Continuous Calibration File ID BP025487.D met the requirements except for 2,4-Dinitrophenol and 4,6-Dinitro-2-methylphenol but no positive hit in associated sample therefore no corrective action taken.

The Continuous Calibration File ID BP025528.D met the requirements except for Benzaldehyde but no positive hit in associated samples therefore no corrective action taken.

6.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	

GC/MS SEMI-VOLATILE ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY

(CONTINUED)

		NA	NO	YES
7.	Surrogate Recoveries Meet Criteria		✓	
	If not met, list those compounds and their recoveries which fall outside the acceptable ranges.			
	The Surrogate recoveries were met for all analysis except for 22BP-E [Terphenyl-d14 - 52%], 11M-S [Terphenyl-d14 - 48%], 11M-N [Terphenyl-d14 - 50%], 84SB-E [Terphenyl-d14 - 51%], 84SB-W [Terphenyl-d14 - 37%], 17M-S [Terphenyl-d14 - 52%], 17M-E [Terphenyl-d14 - 40%], 17M-W [Terphenyl-d14 - 51%] and 17M-N [Terphenyl-d14 - 47%] as per method one surrogate is allowed to failed, therefore no corrective action was taken also 22BP-S [2-Fluorobiphenyl - 37%, Terphenyl-d14 - 35%], 22BP-SRE [2,4,6-Tribromophenol - 38%, Terphenyl-d14 - 32%],84SB-S [2,4,6-Tribromophenol - 34%, 2-Fluorobiphenyl - 34%, Nitrobenzene-d5 - 36%, Terphenyl-d14 - 31%], 84SB-SRE [2,4,6-Tribromophenol - 32%, 2-Fluorobiphenyl - 43%, Terphenyl-d14 - 33%] All the failure samples in surrogates were reanalyzed to confirm the results as per method and reported in the data.			
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria		✓	
	If not met, list those compounds and their recoveries which fall outside the acceptable range.			
	The Blank Spike for {PB169242BS} with File ID: BP025489.D met requirements for all compounds except for 1,4-Dioxane[65%] is failing marginally low therefore no corrective action taken.			
	The RPD for {Q2819-17MSD} with File ID: BP025521.D met criteria except for 4-Chloroaniline[21%] due to difference in results of MS and MSD.			
9.	Internal Standard Area/Retention Time Shift Meet Criteria			✓
	Comments:			
10.	Extraction Holding Time Met			✓
	If not met, list number of days exceeded for each sample:			
11.	Analysis Holding Time Met			✓
	If not met, list number of days exceeded for each sample:			

ADDITIONAL COMMENTS:

Samples 38M-S was diluted due to dirty matrix.

The Form 6 is not included in the data package because the Initial Calibration was performed using 8 points.

GC/MS SEMI-VOLATILE ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY (CONTINUED)

NA NO YES

The not QT review data is reported in the Miscellaneous.

The soil samples results are based on a dry weight basis.

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.

_____ _____

QA REVIEW Date

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q2819

	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: SOHIL JODHANI **Date:** 08/22/2025

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LAB CHRONICLE

OrderID:	Q2819	**OrderDate:**	8/11/2025 12:06:00 PM
Client:	First Environment, Inc.	**Project:**	USACE018-44 DOD
Contact:	Al Smith	**Location:**	D31,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2819-01	**22BP-N**	**SOIL**			**08/04/25**			**08/08/25**
			SVOC-TCL BNA -20	8270E		08/14/25	08/21/25	
Q2819-02	**22BP-E**	**SOIL**			**08/04/25**			**08/08/25**
			SVOC-TCL BNA -20	8270E		08/14/25	08/21/25	
Q2819-03	**22BP-W**	**SOIL**			**08/04/25**			**08/08/25**
			SVOC-TCL BNA -20	8270E		08/14/25	08/20/25	
Q2819-04	**22BP-S**	**SOIL**			**08/04/25**			**08/08/25**
			SVOC-TCL BNA -20	8270E		08/14/25	08/21/25	
Q2819-04RE	**22BP-SRE**	**SOIL**			**08/04/25**			**08/08/25**
			SVOC-TCL BNA -20	8270E		08/14/25	08/21/25	
Q2819-05	**11M-W**	**SOIL**			**08/05/25**			**08/08/25**
			SVOC-TCL BNA -20	8270E		08/14/25	08/20/25	
Q2819-06	**11M-S**	**SOIL**			**08/05/25**			**08/08/25**
			SVOC-TCL BNA -20	8270E		08/14/25	08/21/25	
Q2819-07	**11M-N**	**SOIL**			**08/05/25**			**08/08/25**
			SVOC-TCL BNA -20	8270E		08/14/25	08/21/25	
Q2819-08	**11M-E**	**SOIL**			**08/05/25**			**08/08/25**
			SVOC-TCL BNA -20	8270E		08/14/25	08/21/25	
Q2819-09	**84SB-E**	**SOIL**			**08/05/25**			**08/08/25**
			SVOC-TCL BNA -20	8270E		08/14/25	08/20/25	
Q2819-10	**84SB-S**	**SOIL**			**08/05/25**			**08/08/25**
			SVOC-TCL BNA -20	8270E		08/15/25	08/21/25	
Q2819-10RE	**84SB-SRE**	**SOIL**			**08/05/25**			**08/08/25**

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LAB CHRONICLE

			SVOC-TCL BNA -20	8270E		08/15/25	08/21/25	
Q2819-11	**84SB-W**	**SOIL**			**08/05/25**			**08/08/25**
			SVOC-TCL BNA -20	8270E		08/15/25	08/21/25	
Q2819-12	**17M-S**	**SOIL**			**08/05/25**			**08/08/25**
			SVOC-TCL BNA -20	8270E		08/15/25	08/21/25	
Q2819-13	**17M-E**	**SOIL**			**08/05/25**			**08/08/25**
			SVOC-TCL BNA -20	8270E		08/15/25	08/21/25	
Q2819-14	**17M-W**	**SOIL**			**08/05/25**			**08/08/25**
			SVOC-TCL BNA -20	8270E		08/15/25	08/21/25	
Q2819-15	**17M-N**	**SOIL**			**08/05/25**			**08/08/25**
			SVOC-TCL BNA -20	8270E		08/15/25	08/21/25	
Q2819-16	**38M-S**	**SOIL**			**08/06/25**			**08/08/25**
			SVOC-TCL BNA -20	8270E		08/15/25	08/21/25	
Q2819-17	**38M-N**	**SOIL**			**08/06/25**			**08/08/25**
			SVOC-TCL BNA -20	8270E		08/15/25	08/20/25	
Q2819-18	**38M-W**	**SOIL**			**08/06/25**			**08/08/25**
			SVOC-TCL BNA -20	8270E		08/15/25	08/21/25	
Q2819-19	**38M-E**	**SOIL**			**08/06/25**			**08/08/25**
			SVOC-TCL BNA -20	8270E		08/15/25	08/21/25	
Q2819-20	**82H-E**	**SOIL**			**08/06/25**			**08/08/25**
			SVOC-TCL BNA -20	8270E		08/15/25	08/21/25	

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Hit Summary Sheet
SW-846

SDG No.: Q2819

Client: First Environment, Inc.

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	LOD	RDL	Units
Client ID : 22BP-N										
Q2819-01	22BP-N	SOIL	Fluoranthene		130.000	J	36.1	160	200	ug/Kg
Q2819-01	22BP-N	SOIL	Pyrene		83.900	J	43.4	160	200	ug/Kg
			Total Svoc :		**213.90**					
Q2819-01	22BP-N	SOIL	n-Nonadecanol-1	*	85.900	J	0		0	ug/Kg
Q2819-01	22BP-N	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	430.000	AB	0		0	ug/Kg
Q2819-01	22BP-N	SOIL	Benzo[e]pyrene	*	97.100	J	0		0	ug/Kg
Q2819-01	22BP-N	SOIL	Benzophenone	*	360.000	J	0		0	ug/Kg
Q2819-01	22BP-N	SOIL	Butane, 2-methoxy-2-methyl-	*	2,000.000	J	0		0	ug/Kg
			Total Tics :		**2,973.00**					
			Total Concentration:		**3,186.90**					
Client ID : 22BP-E										
Q2819-02	22BP-E	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	210.000	AB	0		0	ug/Kg
Q2819-02	22BP-E	SOIL	Benzophenone	*	390.000	J	0		0	ug/Kg
Q2819-02	22BP-E	SOIL	Butane, 2-methoxy-2-methyl-	*	1,400.000	J	0		0	ug/Kg
Q2819-02	22BP-E	SOIL	n-Hexadecanoic acid	*	230.000	J	0		0	ug/Kg
Q2819-02	22BP-E	SOIL	Trifluoroacetic acid, pentadecyl e	*	230.000	J	0		0	ug/Kg
			Total Tics :		**2,460.00**					
			Total Concentration:		**2,460.00**					
Client ID : 22BP-W										
Q2819-03	22BP-W	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	250.000	AB	0		0	ug/Kg
Q2819-03	22BP-W	SOIL	Benzophenone	*	370.000	J	0		0	ug/Kg
Q2819-03	22BP-W	SOIL	Butane, 2-methoxy-2-methyl-	*	1,100.000	J	0		0	ug/Kg
Q2819-03	22BP-W	SOIL	Heptacos-1-ene	*	230.000	J	0		0	ug/Kg
Q2819-03	22BP-W	SOIL	Hexadecanoic acid, butyl ester	*	220.000	JB	0		0	ug/Kg
Q2819-03	22BP-W	SOIL	n-Hexadecanoic acid	*	210.000	J	0		0	ug/Kg
Q2819-03	22BP-W	SOIL	Octadecanoic acid	*	84.600	J	0		0	ug/Kg
Q2819-03	22BP-W	SOIL	Octadecanoic acid, butyl ester	*	200.000	JB	0		0	ug/Kg
			Total Tics :		**2,664.60**					
			Total Concentration:		**2,664.60**					
Client ID : 22BP-S										
Q2819-04	22BP-S	SOIL	1-Tricosene	*	190.000	J	0		0	ug/Kg
Q2819-04	22BP-S	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	150.000	AB	0		0	ug/Kg
Q2819-04	22BP-S	SOIL	Benzophenone	*	280.000	J	0		0	ug/Kg
Q2819-04	22BP-S	SOIL	Butane, 2-methoxy-2-methyl-	*	640.000	J	0		0	ug/Kg
Q2819-04	22BP-S	SOIL	n-Hexadecanoic acid	*	260.000	J	0		0	ug/Kg
Q2819-04	22BP-S	SOIL	Octadecanoic acid	*	86.600	J	0		0	ug/Kg

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

Hit Summary Sheet
SW-846

SDG No.: Q2819

Client: First Environment, Inc.

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	LOD	RDL	Units
Q2819-04	22BP-S	SOIL	Triacontyl acetate	*	88.900	J	0		0	ug/Kg
			Total Tics :		**1,695.50**					
			Total Concentration:		**1,695.50**					
Client ID :	**11M-W**									
Q2819-05	11M-W	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	290.000	AB	0		0	ug/Kg
Q2819-05	11M-W	SOIL	Benzophenone	*	400.000	J	0		0	ug/Kg
Q2819-05	11M-W	SOIL	Butane, 2-methoxy-2-methyl-	*	1,200.000	J	0		0	ug/Kg
Q2819-05	11M-W	SOIL	Hexadecanoic acid, 2-methylpropy	*	130.000	JB	0		0	ug/Kg
Q2819-05	11M-W	SOIL	Hexadecanoic acid, butyl ester	*	210.000	JB	0		0	ug/Kg
Q2819-05	11M-W	SOIL	n-Hexadecanoic acid	*	280.000	J	0		0	ug/Kg
Q2819-05	11M-W	SOIL	Nonadecyl pentafluoropropionate	*	190.000	J	0		0	ug/Kg
Q2819-05	11M-W	SOIL	Octadecanoic acid	*	100.000	J	0		0	ug/Kg
Q2819-05	11M-W	SOIL	Octadecanoic acid, 2-methylpropy	*	77.100	J	0		0	ug/Kg
Q2819-05	11M-W	SOIL	Octadecanoic acid, butyl ester	*	170.000	JB	0		0	ug/Kg
			Total Tics :		**3,047.10**					
			Total Concentration:		**3,047.10**					
Client ID :	**11M-S**									
Q2819-06	11M-S	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	230.000	AB	0		0	ug/Kg
Q2819-06	11M-S	SOIL	Benzophenone	*	200.000	J	0		0	ug/Kg
Q2819-06	11M-S	SOIL	Butane, 2-methoxy-2-methyl-	*	1,200.000	J	0		0	ug/Kg
Q2819-06	11M-S	SOIL	Hexadecanoic acid, butyl ester	*	81.900	JB	0		0	ug/Kg
			Total Tics :		**1,711.90**					
			Total Concentration:		**1,711.90**					
Client ID :	**11M-N**									
Q2819-07	11M-N	SOIL	Naphthalene		780.000		29.9	170	220	ug/Kg
Q2819-07	11M-N	SOIL	2-Methylnaphthalene		280.000		33.7	170	220	ug/Kg
Q2819-07	11M-N	SOIL	Acenaphthene		480.000		28	170	220	ug/Kg
Q2819-07	11M-N	SOIL	Dibenzofuran		460.000		29.9	170	220	ug/Kg
Q2819-07	11M-N	SOIL	Fluorene		610.000		33.3	170	220	ug/Kg
Q2819-07	11M-N	SOIL	Phenanthrene		1,600.000		27.5	170	220	ug/Kg
Q2819-07	11M-N	SOIL	Anthracene		210.000	J	43.8	170	220	ug/Kg
Q2819-07	11M-N	SOIL	Carbazole		510.000		41.1	170	220	ug/Kg
Q2819-07	11M-N	SOIL	Fluoranthene		730.000		39.5	170	220	ug/Kg
Q2819-07	11M-N	SOIL	Pyrene		420.000		47.4	170	220	ug/Kg
Q2819-07	11M-N	SOIL	Benzo(a)anthracene		160.000	J	30.3	170	220	ug/Kg
Q2819-07	11M-N	SOIL	Chrysene		140.000	J	26.2	170	220	ug/Kg
Q2819-07	11M-N	SOIL	Benzo(b)fluoranthene		110.000	J	25	170	220	ug/Kg
			Total Svoc :		**6,490.00**					
Q2819-07	11M-N	SOIL	1(2H)-Acenaphthylenone	*	130.000	J	0		0	ug/Kg

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Hit Summary Sheet
SW-846

SDG No.: Q2819

Client: First Environment, Inc.

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	LOD	RDL	Units
Q2819-07	11M-N	SOIL	1,1-Biphenyl, 4-methyl-	*	94.300	J	0		0	ug/Kg
Q2819-07	11M-N	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	280.000	AB	0		0	ug/Kg
Q2819-07	11M-N	SOIL	4H-Cyclopenta[def]phenanthrene	*	280.000	J	0		0	ug/Kg
Q2819-07	11M-N	SOIL	9H-Fluorene, 1-methyl-	*	110.000	J	0		0	ug/Kg
Q2819-07	11M-N	SOIL	Benzophenone	*	300.000	J	0		0	ug/Kg
Q2819-07	11M-N	SOIL	Butane, 2-methoxy-2-methyl-	*	1,600.000	J	0		0	ug/Kg
Q2819-07	11M-N	SOIL	Anthracene, 2-methyl-	*	180.000	J	0		0	ug/Kg
Q2819-07	11M-N	SOIL	Dibenzothiophene	*	140.000	J	0		0	ug/Kg
Q2819-07	11M-N	SOIL	Fluoranthene, 2-methyl-	*	120.000	J	0		0	ug/Kg
Q2819-07	11M-N	SOIL	Phenanthrene, 2-methyl-	*	110.000	J	0		0	ug/Kg
Q2819-07	11M-N	SOIL	Naphthalene, 1,3-dimethyl-	*	160.000	J	0		0	ug/Kg
Q2819-07	11M-N	SOIL	Octadecanoic acid, butyl ester	*	100.000	JB	0		0	ug/Kg
Q2819-07	11M-N	SOIL	1-Methylnaphthalene	*	190.000	J	34		220	ug/Kg
			Total Tics :		**3,794.30**					
			Total Concentration:		**10,284.30**					
Client ID :	**11M-E**									
Q2819-08	11M-E	SOIL	Phenanthrene		210.000	J	29.1	180	240	ug/Kg
Q2819-08	11M-E	SOIL	Fluoranthene		380.000		41.7	180	240	ug/Kg
Q2819-08	11M-E	SOIL	Pyrene		260.000		50.1	180	240	ug/Kg
Q2819-08	11M-E	SOIL	Benzo(a)anthracene		180.000	J	32	180	240	ug/Kg
Q2819-08	11M-E	SOIL	Chrysene		200.000	J	27.7	180	240	ug/Kg
Q2819-08	11M-E	SOIL	Benzo(b)fluoranthene		240.000		26.4	180	240	ug/Kg
Q2819-08	11M-E	SOIL	Benzo(k)fluoranthene		93.900	J	31.1	180	240	ug/Kg
Q2819-08	11M-E	SOIL	Benzo(a)pyrene		170.000	J	41	180	240	ug/Kg
Q2819-08	11M-E	SOIL	Benzo(g,h,i)perylene		94.500	J	35.7	180	240	ug/Kg
			Total Svoc :		**1,828.40**					
Q2819-08	11M-E	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	330.000	AB	0		0	ug/Kg
Q2819-08	11M-E	SOIL	2-Phenanthrenol, 4b,5,6,7,8,8a,9,1	*	160.000	J	0		0	ug/Kg
Q2819-08	11M-E	SOIL	Benzo[e]pyrene	*	130.000	J	0		0	ug/Kg
Q2819-08	11M-E	SOIL	Benzophenone	*	240.000	J	0		0	ug/Kg
Q2819-08	11M-E	SOIL	Butane, 2-methoxy-2-methyl-	*	590.000	J	0		0	ug/Kg
Q2819-08	11M-E	SOIL	Eicosane	*	100.000	J	0		0	ug/Kg
Q2819-08	11M-E	SOIL	Longifolene	*	110.000	J	0		0	ug/Kg
Q2819-08	11M-E	SOIL	Octadecanoic acid, butyl ester	*	100.000	JB	0		0	ug/Kg
			Total Tics :		**1,760.00**					
			Total Concentration:		**3,588.40**					
Client ID :	**84SB-E**									
Q2819-09	84SB-E	SOIL	1-Tricosene	*	610.000	J	0		0	ug/Kg
Q2819-09	84SB-E	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	540.000	AB	0		0	ug/Kg

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Hit Summary Sheet
SW-846

SDG No.: Q2819

Client: First Environment, Inc.

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	LOD	RDL	Units
Q2819-09	84SB-E	SOIL	Benzophenone	*	510.000	J	0		0	ug/Kg
Q2819-09	84SB-E	SOIL	Butane, 2-methoxy-2-methyl-	*	3,100.000	J	0		0	ug/Kg
Q2819-09	84SB-E	SOIL	Docosane	*	280.000	J	0		0	ug/Kg
Q2819-09	84SB-E	SOIL	Hexadecanoic acid, 2-methylprop	*	340.000	JB	0		0	ug/Kg
Q2819-09	84SB-E	SOIL	Hexadecanoic acid, butyl ester	*	750.000	JB	0		0	ug/Kg
Q2819-09	84SB-E	SOIL	n-Hexadecanoic acid	*	540.000	J	0		0	ug/Kg
Q2819-09	84SB-E	SOIL	Octadecane	*	180.000	J	0		0	ug/Kg
Q2819-09	84SB-E	SOIL	Octadecanoic acid	*	210.000	J	0		0	ug/Kg
Q2819-09	84SB-E	SOIL	Octadecanoic acid, 2-methylpropy	*	190.000	J	0		0	ug/Kg
Q2819-09	84SB-E	SOIL	Octadecanoic acid, butyl ester	*	630.000	JB	0		0	ug/Kg
			Total Tics :		**7,880.00**					
			Total Concentration:		**7,880.00**					
Client ID :	**84SB-S**									
Q2819-10	84SB-S	SOIL	Diethylphthalate		160.000	J	30.6	140	180	ug/Kg
Q2819-10	84SB-S	SOIL	Phenanthrene		73.000	J	22.6	140	180	ug/Kg
Q2819-10	84SB-S	SOIL	Di-n-butylphthalate		95.700	J	51.8	140	180	ug/Kg
Q2819-10	84SB-S	SOIL	Fluoranthene		160.000	J	32.4	140	180	ug/Kg
Q2819-10	84SB-S	SOIL	Pyrene		150.000	J	38.9	140	180	ug/Kg
Q2819-10	84SB-S	SOIL	Benzo(a)anthracene		81.200	J	24.9	140	180	ug/Kg
Q2819-10	84SB-S	SOIL	Chrysene		100.000	J	21.5	140	180	ug/Kg
Q2819-10	84SB-S	SOIL	Benzo(b)fluoranthene		130.000	J	20.5	140	180	ug/Kg
Q2819-10	84SB-S	SOIL	Benzo(a)pyrene		88.200	J	31.9	140	180	ug/Kg
			Total Svoc :		**1,038.10**					
Q2819-10	84SB-S	SOIL	1-Heneicosyl formate	*	120.000	J	0		0	ug/Kg
Q2819-10	84SB-S	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	120.000	AB	0		0	ug/Kg
Q2819-10	84SB-S	SOIL	7,9-Di-tert-butyl-1-oxaspiro(4,5)d	*	97.300	J	0		0	ug/Kg
Q2819-10	84SB-S	SOIL	Benzophenone	*	290.000	J	0		0	ug/Kg
Q2819-10	84SB-S	SOIL	Butane, 2-methoxy-2-methyl-	*	790.000	J	0		0	ug/Kg
Q2819-10	84SB-S	SOIL	n-Hexadecanoic acid	*	1,400.000	J	0		0	ug/Kg
Q2819-10	84SB-S	SOIL	Octadecanoic acid	*	400.000	J	0		0	ug/Kg
Q2819-10	84SB-S	SOIL	Pentadecanoic acid	*	540.000	J	0		0	ug/Kg
Q2819-10	84SB-S	SOIL	Phthalic acid, di(2-propylpentyl)	*	150.000	J	0		0	ug/Kg
			Total Tics :		**3,907.30**					
			Total Concentration:		**4,945.40**					
Client ID :	**84SB-SRE**									
Q2819-10RE	84SB-SRE	SOIL	Fluoranthene		160.000	J	32.4	140	180	ug/Kg
Q2819-10RE	84SB-SRE	SOIL	Pyrene		120.000	J	38.9	140	180	ug/Kg
Q2819-10RE	84SB-SRE	SOIL	Benzo(a)anthracene		80.600	J	24.9	140	180	ug/Kg
Q2819-10RE	84SB-SRE	SOIL	Chrysene		100.000	J	21.5	140	180	ug/Kg

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Hit Summary Sheet
SW-846

SDG No.: Q2819

Client: First Environment, Inc.

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	LOD	RDL	Units
Q2819-10RE	84SB-SRE	SOIL	Benzo(b)fluoranthene		130.000	J	20.5	140	180	ug/Kg
Q2819-10RE	84SB-SRE	SOIL	Benzo(a)pyrene		90.900	J	31.9	140	180	ug/Kg
			Total Svoc :		**681.50**					
			Total Concentration:		**681.50**					
Client ID :	**84SB-W**									
Q2819-11	84SB-W	SOIL	Phenanthrene		150.000	J	24	150	200	ug/Kg
Q2819-11	84SB-W	SOIL	Fluoranthene		200.000		34.5	150	200	ug/Kg
Q2819-11	84SB-W	SOIL	Pyrene		130.000	J	41.4	150	200	ug/Kg
Q2819-11	84SB-W	SOIL	Benzo(a)anthracene		90.800	J	26.5	150	200	ug/Kg
Q2819-11	84SB-W	SOIL	Chrysene		85.600	J	22.9	150	200	ug/Kg
Q2819-11	84SB-W	SOIL	Benzo(b)fluoranthene		92.600	J	21.9	150	200	ug/Kg
			Total Svoc :		**749.00**					
Q2819-11	84SB-W	SOIL	Benzophenone	*	230.000	J	0		0	ug/Kg
Q2819-11	84SB-W	SOIL	Butane, 2-methoxy-2-methyl-	*	1,300.000	J	0		0	ug/Kg
Q2819-11	84SB-W	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	200.000	AB	0		0	ug/Kg
			Total Tics :		**1,730.00**					
			Total Concentration:		**2,479.00**					
Client ID :	**17M-S**									
Q2819-12	17M-S	SOIL	Phenanthrene		72.100	J	22.4	140	180	ug/Kg
Q2819-12	17M-S	SOIL	Fluoranthene		130.000	J	32.1	140	180	ug/Kg
Q2819-12	17M-S	SOIL	Pyrene		110.000	J	38.5	140	180	ug/Kg
Q2819-12	17M-S	SOIL	Benzo(b)fluoranthene		78.500	J	20.3	140	180	ug/Kg
			Total Svoc :		**390.60**					
Q2819-12	17M-S	SOIL	(Z)-14-Tricosenyl formate	*	140.000	J	0		0	ug/Kg
Q2819-12	17M-S	SOIL	1,6-Methano-1H-indene, 2,3,3a,4,	*	870.000	J	0		0	ug/Kg
Q2819-12	17M-S	SOIL	1-Heneicosanol	*	350.000	J	0		0	ug/Kg
Q2819-12	17M-S	SOIL	1-Hexacosene	*	290.000	J	0		0	ug/Kg
Q2819-12	17M-S	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	190.000	AB	0		0	ug/Kg
Q2819-12	17M-S	SOIL	4-Methoxy-5-bromo-dimethylami	*	74.900	J	0		0	ug/Kg
Q2819-12	17M-S	SOIL	Benzophenone	*	300.000	J	0		0	ug/Kg
Q2819-12	17M-S	SOIL	Butane, 2-methoxy-2-methyl-	*	730.000	J	0		0	ug/Kg
Q2819-12	17M-S	SOIL	Heptachlor epoxide	*	73.500	J	0		0	ug/Kg
Q2819-12	17M-S	SOIL	Naphthalene, 1,2,3,4-tetrachloro-	*	77.800	J	0		0	ug/Kg
Q2819-12	17M-S	SOIL	n-Hexadecanoic acid	*	310.000	J	0		0	ug/Kg
Q2819-12	17M-S	SOIL	Octacosanol	*	300.000	J	0		0	ug/Kg
Q2819-12	17M-S	SOIL	Octadecanoic acid	*	130.000	J	0		0	ug/Kg
Q2819-12	17M-S	SOIL	trans-Chlordane	*	280.000	J	0		0	ug/Kg
			Total Tics :		**4,116.20**					
			Total Concentration:		**4,506.80**					

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Hit Summary Sheet
SW-846

SDG No.: Q2819

Client: First Environment, Inc.

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	LOD	RDL	Units
Client ID :	**17M-E**									
Q2819-13	17M-E	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	230.000	AB	0		0	ug/Kg
Q2819-13	17M-E	SOIL	Benzophenone	*	280.000	J	0		0	ug/Kg
Q2819-13	17M-E	SOIL	Butane, 2-methoxy-2-methyl-	*	1,000.000	J	0		0	ug/Kg
			Total Tics :		**1,510.00**					
			Total Concentration:		**1,510.00**					
Client ID :	**17M-W**									
Q2819-14	17M-W	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	220.000	AB	0		0	ug/Kg
Q2819-14	17M-W	SOIL	Benzophenone	*	300.000	J	0		0	ug/Kg
Q2819-14	17M-W	SOIL	Butane, 2-methoxy-2-methyl-	*	930.000	J	0		0	ug/Kg
			Total Tics :		**1,450.00**					
			Total Concentration:		**1,450.00**					
Client ID :	**17M-N**									
Q2819-15	17M-N	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	230.000	AB	0		0	ug/Kg
Q2819-15	17M-N	SOIL	Benzophenone	*	300.000	J	0		0	ug/Kg
Q2819-15	17M-N	SOIL	Butane, 2-methoxy-2-methyl-	*	1,100.000	J	0		0	ug/Kg
			Total Tics :		**1,630.00**					
			Total Concentration:		**1,630.00**					
Client ID :	**38M-S**									
Q2819-16	38M-S	SOIL	2-(2-(2-(2-(2-(2-Methoxyethoxy)e	*	450.000	J	0		0	ug/Kg
Q2819-16	38M-S	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	200.000	AB	0		0	ug/Kg
Q2819-16	38M-S	SOIL	Benzophenone	*	330.000	J	0		0	ug/Kg
Q2819-16	38M-S	SOIL	Butane, 2-methoxy-2-methyl-	*	680.000	J	0		0	ug/Kg
Q2819-16	38M-S	SOIL	Cyclodocosane, ethyl-	*	250.000	J	0		0	ug/Kg
Q2819-16	38M-S	SOIL	Methyl 2-(2-(2-methoxyethoxy)et	*	560.000	J	0		0	ug/Kg
Q2819-16	38M-S	SOIL	n-Hexadecanoic acid	*	470.000	J	0		0	ug/Kg
Q2819-16	38M-S	SOIL	Octadecanoic acid	*	260.000	J	0		0	ug/Kg
Q2819-16	38M-S	SOIL	Phthalic acid, monooctyl ester	*	160.000	J	0		0	ug/Kg
Q2819-16	38M-S	SOIL	Tetraglyme	*	210.000	J	0		0	ug/Kg
			Total Tics :		**3,570.00**					
			Total Concentration:		**3,570.00**					
Client ID :	**38M-N**									
Q2819-17	38M-N	SOIL	1-Hexacosene	*	190.000	J	0		0	ug/Kg
Q2819-17	38M-N	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	270.000	AB	0		0	ug/Kg
Q2819-17	38M-N	SOIL	Benzophenone	*	320.000	J	0		0	ug/Kg
Q2819-17	38M-N	SOIL	Butane, 2-methoxy-2-methyl-	*	1,100.000	J	0		0	ug/Kg
Q2819-17	38M-N	SOIL	n-Hexadecanoic acid	*	160.000	J	0		0	ug/Kg
			Total Tics :		**2,040.00**					

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Hit Summary Sheet
SW-846

SDG No.: Q2819

Client: First Environment, Inc.

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	LOD	RDL	Units
			Total Concentration:		**2,040.00**					
Client ID :	**38M-W**									
Q2819-18	38M-W	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	270.000	AB	0		0	ug/Kg
Q2819-18	38M-W	SOIL	Benzophenone	*	280.000	J	0		0	ug/Kg
Q2819-18	38M-W	SOIL	Butane, 2-methoxy-2-methyl-	*	1,100.000	J	0		0	ug/Kg
			Total Tics :		**1,650.00**					
			Total Concentration:		**1,650.00**					
Client ID :	**38M-E**									
Q2819-19	38M-E	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	240.000	AB	0		0	ug/Kg
Q2819-19	38M-E	SOIL	Benzophenone	*	240.000	J	0		0	ug/Kg
Q2819-19	38M-E	SOIL	Butane, 2-methoxy-2-methyl-	*	990.000	J	0		0	ug/Kg
			Total Tics :		**1,470.00**					
			Total Concentration:		**1,470.00**					
Client ID :	**82H-E**									
Q2819-20	82H-E	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	300.000	AB	0		0	ug/Kg
Q2819-20	82H-E	SOIL	Benzophenone	*	320.000	J	0		0	ug/Kg
Q2819-20	82H-E	SOIL	Butane, 2-methoxy-2-methyl-	*	1,200.000	J	0		0	ug/Kg
			Total Tics :		**1,820.00**					
			Total Concentration:		**1,820.00**					

QC SUMMARY

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

SW-846

SDG No.: Q2819

Client: First Environment, Inc.

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB169242BL	PB169242BL	2-Fluorophenol	150	139	92		35	115
		Phenol-d6	150	132	88		34	127
		Nitrobenzene-d5	100	88.9	89		37	122
		2-Fluorobiphenyl	100	82.6	83		44	115
		2,4,6-Tribromophenol	150	145	97		39	132
		Terphenyl-d14	100	83.3	83		54	127
PB169242BS	PB169242BS	2-Fluorophenol	150	134	90		35	115
		Phenol-d6	150	134	90		34	127
		Nitrobenzene-d5	100	83.8	84		37	122
		2-Fluorobiphenyl	100	76.8	77		44	115
		2,4,6-Tribromophenol	150	145	97		39	132
		Terphenyl-d14	100	86.4	86		54	127
Q2819-01	22BP-N	2-Fluorophenol	150	130	87		35	115
		Phenol-d6	150	136	91		34	127
		Nitrobenzene-d5	100	97.2	97		37	122
		2-Fluorobiphenyl	100	93.8	94		44	115
		2,4,6-Tribromophenol	150	134	89		39	132
		Terphenyl-d14	100	76.2	76		54	127
Q2819-02	22BP-E	2-Fluorophenol	150	82.1	55		35	115
		Phenol-d6	150	83.1	55		34	127
		Nitrobenzene-d5	100	55.6	56		37	122
		2-Fluorobiphenyl	100	53.7	54		44	115
		2,4,6-Tribromophenol	150	84.1	56		39	132
		Terphenyl-d14	100	51.6	52	*	54	127
Q2819-03	22BP-W	2-Fluorophenol	150	95.1	63		35	115
		Phenol-d6	150	94.0	63		34	127
		Nitrobenzene-d5	100	61.7	62		37	122
		2-Fluorobiphenyl	100	57.1	57		44	115
		2,4,6-Tribromophenol	150	91.0	61		39	132
		Terphenyl-d14	100	54.3	54		54	127
Q2819-03MS	22BP-WMS	2-Fluorophenol	150	102	68		35	115
		Phenol-d6	150	105	70		34	127
		Nitrobenzene-d5	100	65.0	65		37	122
		2-Fluorobiphenyl	100	58.5	58		44	115
		2,4,6-Tribromophenol	150	106	70		39	132
		Terphenyl-d14	100	70.4	70		54	127
Q2819-03MSD	22BP-WMSD	2-Fluorophenol	150	103	69		35	115
		Phenol-d6	150	101	68		34	127
		Nitrobenzene-d5	100	65.6	66		37	122
		2-Fluorobiphenyl	100	60.6	61		44	115
		2,4,6-Tribromophenol	150	104	69		39	132
		Terphenyl-d14	100	60.7	61		54	127
Q2819-04	22BP-S	2-Fluorophenol	150	62.0	41		35	115
		Phenol-d6	150	63.4	42		34	127
		Nitrobenzene-d5	100	39.4	39		37	122
		2-Fluorobiphenyl	100	36.9	37	*	44	115
		2,4,6-Tribromophenol	150	64.2	43		39	132
		Terphenyl-d14	100	34.8	35	*	54	127
Q2819-04RE	22BP-SRE	2-Fluorophenol	150	65.0	43		35	115
		Phenol-d6	150	65.8	44		34	127
		Nitrobenzene-d5	100	46.8	47		37	122

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Surrogate Summary

SW-846

SDG No.: Q2819

Client: First Environment, Inc.

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
Q2819-04RE	22BP-SRE	2-Fluorobiphenyl	100	48.0	48		44	115
		2,4,6-Tribromophenol	150	56.6	38	*	39	132
		Terphenyl-d14	100	32.3	32	*	54	127
Q2819-05	11M-W	2-Fluorophenol	150	122	81		35	115
		Phenol-d6	150	124	83		34	127
		Nitrobenzene-d5	100	78.0	78		37	122
		2-Fluorobiphenyl	100	70.5	71		44	115
		2,4,6-Tribromophenol	150	130	87		39	132
		Terphenyl-d14	100	70.1	70		54	127
Q2819-06	11M-S	2-Fluorophenol	150	81.4	54		35	115
		Phenol-d6	150	83.1	55		34	127
		Nitrobenzene-d5	100	60.4	60		37	122
		2-Fluorobiphenyl	100	57.5	58		44	115
		2,4,6-Tribromophenol	150	80.2	53		39	132
		Terphenyl-d14	100	48.2	48	*	54	127
Q2819-07	11M-N	2-Fluorophenol	150	84.9	57		35	115
		Phenol-d6	150	86.5	58		34	127
		Nitrobenzene-d5	100	62.8	63		37	122
		2-Fluorobiphenyl	100	56.6	57		44	115
		2,4,6-Tribromophenol	150	77.3	52		39	132
		Terphenyl-d14	100	50.5	50	*	54	127
Q2819-08	11M-E	2-Fluorophenol	150	59.8	40		35	115
		Phenol-d6	150	65.5	44		34	127
		Nitrobenzene-d5	100	43.3	43		37	122
		2-Fluorobiphenyl	100	54.7	55		44	115
		2,4,6-Tribromophenol	150	100.0	67		39	132
		Terphenyl-d14	100	60.2	60		54	127
Q2819-09	84SB-E	2-Fluorophenol	150	97.1	65		35	115
		Phenol-d6	150	93.3	62		34	127
		Nitrobenzene-d5	100	65.3	65		37	122
		2-Fluorobiphenyl	100	55.4	55		44	115
		2,4,6-Tribromophenol	150	98.0	65		39	132
		Terphenyl-d14	100	51.5	51	*	54	127

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Surrogate Summary

SW-846

SDG No.: Q2819

Client: First Environment, Inc.

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB169259BL	PB169259BL	2-Fluorophenol	150	124	83		35	115
		Phenol-d6	150	117	78		34	127
		Nitrobenzene-d5	100	81.8	82		37	122
		2-Fluorobiphenyl	100	79.6	80		44	115
		2,4,6-Tribromophenol	150	123	82		39	132
		Terphenyl-d14	100	73.5	74		54	127
PB169259BS	PB169259BS	2-Fluorophenol	150	127	85		35	115
		Phenol-d6	150	120	80		34	127
		Nitrobenzene-d5	100	82.7	83		37	122
		2-Fluorobiphenyl	100	82.3	82		44	115
		2,4,6-Tribromophenol	150	129	86		39	132
		Terphenyl-d14	100	76.9	77		54	127
Q2819-10	84SB-S	2-Fluorophenol	150	53.7	36		35	115
		Phenol-d6	150	53.3	36		34	127
		Nitrobenzene-d5	100	35.9	36	*	37	122
		2-Fluorobiphenyl	100	34.1	34	*	44	115
		2,4,6-Tribromophenol	150	51.2	34	*	39	132
		Terphenyl-d14	100	31.4	31	*	54	127
Q2819-10RE	84SB-SRE	2-Fluorophenol	150	55.5	37		35	115
		Phenol-d6	150	55.3	37		34	127
		Nitrobenzene-d5	100	40.9	41		37	122
		2-Fluorobiphenyl	100	42.6	43	*	44	115
		2,4,6-Tribromophenol	150	47.5	32	*	39	132
		Terphenyl-d14	100	33.0	33	*	54	127
Q2819-11	84SB-W	2-Fluorophenol	150	69.0	46		35	115
		Phenol-d6	150	70.0	47		34	127
		Nitrobenzene-d5	100	50.9	51		37	122
		2-Fluorobiphenyl	100	51.2	51		44	115
		2,4,6-Tribromophenol	150	62.6	42		39	132
		Terphenyl-d14	100	37.3	37	*	54	127
Q2819-12	17M-S	2-Fluorophenol	150	81.5	54		35	115
		Phenol-d6	150	82.0	55		34	127
		Nitrobenzene-d5	100	52.3	52		37	122
		2-Fluorobiphenyl	100	50.8	51		44	115
		2,4,6-Tribromophenol	150	82.6	55		39	132
		Terphenyl-d14	100	51.8	52	*	54	127
Q2819-13	17M-E	2-Fluorophenol	150	78.2	52		35	115
		Phenol-d6	150	80.0	53		34	127
		Nitrobenzene-d5	100	58.1	58		37	122
		2-Fluorobiphenyl	100	57.8	58		44	115
		2,4,6-Tribromophenol	150	72.9	49		39	132
		Terphenyl-d14	100	40.4	40	*	54	127
Q2819-14	17M-W	2-Fluorophenol	150	77.1	51		35	115
		Phenol-d6	150	79.5	53		34	127
		Nitrobenzene-d5	100	56.4	56		37	122
		2-Fluorobiphenyl	100	54.4	54		44	115
		2,4,6-Tribromophenol	150	79.8	53		39	132
		Terphenyl-d14	100	50.9	51	*	54	127
Q2819-15	17M-N	2-Fluorophenol	150	77.2	51		35	115
		Phenol-d6	150	80.3	54		34	127
		Nitrobenzene-d5	100	57.1	57		37	122

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Surrogate Summary

SW-846

SDG No.: Q2819

Client: First Environment, Inc.

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
Q2819-15	17M-N	2-Fluorobiphenyl	100	51.1	51		44	115
		2,4,6-Tribromophenol	150	76.3	51		39	132
		Terphenyl-d14	100	47.3	47	*	54	127
Q2819-16	38M-S	2-Fluorophenol	150	90.9	61		35	115
		Phenol-d6	150	91.8	61		34	127
		Nitrobenzene-d5	100	59.4	59		37	122
		2-Fluorobiphenyl	100	60.1	60		44	115
		2,4,6-Tribromophenol	150	87.3	58		39	132
		Terphenyl-d14	100	56.6	57		54	127
Q2819-17	38M-N	2-Fluorophenol	150	110	73		35	115
		Phenol-d6	150	108	72		34	127
		Nitrobenzene-d5	100	71.1	71		37	122
		2-Fluorobiphenyl	100	60.9	61		44	115
		2,4,6-Tribromophenol	150	103	69		39	132
		Terphenyl-d14	100	62.6	63		54	127
Q2819-17MS	38M-NMS	2-Fluorophenol	150	101	67		35	115
		Phenol-d6	150	98.5	66		34	127
		Nitrobenzene-d5	100	64.1	64		37	122
		2-Fluorobiphenyl	100	56.9	57		44	115
		2,4,6-Tribromophenol	150	100	67		39	132
		Terphenyl-d14	100	56.8	57		54	127
Q2819-17MSD	38M-NMSD	2-Fluorophenol	150	115	77		35	115
		Phenol-d6	150	112	74		34	127
		Nitrobenzene-d5	100	74.1	74		37	122
		2-Fluorobiphenyl	100	65.3	65		44	115
		2,4,6-Tribromophenol	150	116	78		39	132
		Terphenyl-d14	100	65.5	65		54	127
Q2819-18	38M-W	2-Fluorophenol	150	89.5	60		35	115
		Phenol-d6	150	90.6	60		34	127
		Nitrobenzene-d5	100	64.4	64		37	122
		2-Fluorobiphenyl	100	64.8	65		44	115
		2,4,6-Tribromophenol	150	88.8	59		39	132
		Terphenyl-d14	100	65.7	66		54	127
Q2819-19	38M-E	2-Fluorophenol	150	79.5	53		35	115
		Phenol-d6	150	85.1	57		34	127
		Nitrobenzene-d5	100	57.0	57		37	122
		2-Fluorobiphenyl	100	57.6	58		44	115
		2,4,6-Tribromophenol	150	87.2	58		39	132
		Terphenyl-d14	100	60.2	60		54	127
Q2819-20	82H-E	2-Fluorophenol	150	90.2	60		35	115
		Phenol-d6	150	92.1	61		34	127
		Nitrobenzene-d5	100	65.3	65		37	122
		2-Fluorobiphenyl	100	62.4	62		44	115
		2,4,6-Tribromophenol	150	90.6	60		39	132
		Terphenyl-d14	100	58.6	59		54	127

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2819 **Analytical Method:** SW8270E

Client: First Environment, Inc. **DataFile:** BP025516.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q2819-03MS		**Client Sample ID: 22BP-WMS**									
Benzaldehyde	1900	0	1100	ug/Kg	58				10	161	
Phenol	1900	0	1900	ug/Kg	100				34	121	
bis(2-Chloroethyl)ether	1900	0	1800	ug/Kg	95				31	120	
2-Chlorophenol	1900	0	1900	ug/Kg	100				34	121	
2-Methylphenol	1900	0	1900	ug/Kg	100				32	122	
2,2-oxybis(1-Chloropropane)	1900	0	1800	ug/Kg	95				33	131	
Acetophenone	1900	0	1800	ug/Kg	95				33	115	
3+4-Methylphenols	1900	0	1900	ug/Kg	100				34	119	
N-Nitroso-di-n-propylamine	1900	0	1700	ug/Kg	89				36	120	
Hexachloroethane	1900	0	1800	ug/Kg	95				28	117	
Nitrobenzene	1900	0	1800	ug/Kg	95				34	122	
Isophorone	1900	0	1800	ug/Kg	95				30	122	
2-Nitrophenol	1900	0	1900	ug/Kg	100				36	123	
2,4-Dimethylphenol	1900	0	1900	ug/Kg	100				30	127	
bis(2-Chloroethoxy)methane	1900	0	1800	ug/Kg	95				36	121	
2,4-Dichlorophenol	1900	0	2000	ug/Kg	105				40	122	
Naphthalene	1900	0	1800	ug/Kg	95				35	123	
4-Chloroaniline	1900	0	960	ug/Kg	51				17	106	
Hexachlorobutadiene	1900	0	1800	ug/Kg	95				32	123	
Caprolactam	1900	0	2000	ug/Kg	105				46	117	
4-Chloro-3-methylphenol	1900	0	2000	ug/Kg	105				45	122	
2-Methylnaphthalene	1900	0	1800	ug/Kg	95				38	122	
Hexachlorocyclopentadiene	3900	0	3500	ug/Kg	90				43	112	
2,4,6-Trichlorophenol	1900	0	1900	ug/Kg	100				39	126	
2,4,5-Trichlorophenol	1900	0	2000	ug/Kg	105				41	124	
1,1-Biphenyl	1900	0	1800	ug/Kg	95				40	117	
2-Chloronaphthalene	1900	0	1800	ug/Kg	95				41	114	
2-Nitroaniline	1900	0	2000	ug/Kg	105				44	127	
Dimethylphthalate	1900	0	1900	ug/Kg	100				48	124	
Acenaphthylene	1900	0	1800	ug/Kg	95				32	132	
2,6-Dinitrotoluene	1900	0	2000	ug/Kg	105				46	124	
3-Nitroaniline	1900	0	1300	ug/Kg	68				33	119	
Acenaphthene	1900	0	1700	ug/Kg	89				40	123	
2,4-Dinitrophenol	3900	0	4500	ug/Kg	115				15	130	
4-Nitrophenol	3900	0	3900	ug/Kg	100				30	132	
Dibenzofuran	1900	0	1800	ug/Kg	95				44	120	
2,4-Dinitrotoluene	1900	0	2000	ug/Kg	105				48	126	
Diethylphthalate	1900	0	1900	ug/Kg	100				50	124	
4-Chlorophenyl-phenylether	1900	0	1700	ug/Kg	89				45	121	
Fluorene	1900	0	1800	ug/Kg	95				43	125	
4-Nitroaniline	1900	0	1800	ug/Kg	95				35	115	
4,6-Dinitro-2-methylphenol	1900	0	2000	ug/Kg	105				29	132	
N-Nitrosodiphenylamine	1900	0	1800	ug/Kg	95				38	127	
4-Bromophenyl-phenylether	1900	0	1900	ug/Kg	100				46	124	
Hexachlorobenzene	1900	0	1800	ug/Kg	95				45	122	
Atrazine	1900	0	1900	ug/Kg	100				47	127	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2819 **Analytical Method:** SW8270E

Client: First Environment, Inc. **DataFile:** BP025516.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Pentachlorophenol	3900	0	3900	ug/Kg	100				25	133	
Phenanthrene	1900	0	1800	ug/Kg	95				50	121	
Anthracene	1900	0	1800	ug/Kg	95				47	123	
Carbazole	1900	0	1800	ug/Kg	95				50	123	
Di-n-butylphthalate	1900	0	1900	ug/Kg	100				51	128	
Fluoranthene	1900	0	1700	ug/Kg	89				50	127	
Pyrene	1900	0	2100	ug/Kg	111				47	127	
Butylbenzylphthalate	1900	0	2100	ug/Kg	111				48	132	
3,3-Dichlorobenzidine	1900	0	1300	ug/Kg	68				22	121	
Benzo(a)anthracene	1900	0	1800	ug/Kg	95				49	126	
Chrysene	1900	0	1800	ug/Kg	95				50	124	
bis(2-Ethylhexyl)phthalate	1900	0	1900	ug/Kg	100				51	133	
Di-n-octyl phthalate	1900	0	1800	ug/Kg	95				45	140	
Benzo(b)fluoranthene	1900	0	1900	ug/Kg	100				45	132	
Benzo(k)fluoranthene	1900	0	1800	ug/Kg	95				47	132	
Benzo(a)pyrene	1900	0	1800	ug/Kg	95				45	129	
Indeno(1,2,3-cd)pyrene	1900	0	1900	ug/Kg	100				45	133	
Dibenz(a,h)anthracene	1900	0	1900	ug/Kg	100				45	134	
Benzo(g,h,i)perylene	1900	0	1900	ug/Kg	100				43	134	
1,2,4,5-Tetrachlorobenzene	1900	0	1700	ug/Kg	89				37	119	
1,4-Dioxane	1900	0	1500	ug/Kg	79				70	130	
2,3,4,6-Tetrachlorophenol	1900	0	2000	ug/Kg	105				44	125	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2819 **Analytical Method:** SW8270E

Client: First Environment, Inc. **DataFile:** BP025517.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q2819-03MSD		**Client Sample ID: 22BP-WMSD**									
Benzaldehyde	1900	0	1100	ug/Kg	58		0		10	161	20
Phenol	1900	0	1900	ug/Kg	100		0		34	121	20
bis(2-Chloroethyl)ether	1900	0	1800	ug/Kg	95		0		31	120	20
2-Chlorophenol	1900	0	1900	ug/Kg	100		0		34	121	20
2-Methylphenol	1900	0	1800	ug/Kg	95		5		32	122	20
2,2-oxybis(1-Chloropropane)	1900	0	1800	ug/Kg	95		0		33	131	20
Acetophenone	1900	0	1800	ug/Kg	95		0		33	115	20
3+4-Methylphenols	1900	0	1800	ug/Kg	95		5		34	119	20
N-Nitroso-di-n-propylamine	1900	0	1700	ug/Kg	89		0		36	120	20
Hexachloroethane	1900	0	1900	ug/Kg	100		5		28	117	20
Nitrobenzene	1900	0	1900	ug/Kg	100		5		34	122	20
Isophorone	1900	0	1800	ug/Kg	95		0		30	122	20
2-Nitrophenol	1900	0	1900	ug/Kg	100		0		36	123	20
2,4-Dimethylphenol	1900	0	1800	ug/Kg	95		5		30	127	20
bis(2-Chloroethoxy)methane	1900	0	1800	ug/Kg	95		0		36	121	20
2,4-Dichlorophenol	1900	0	1900	ug/Kg	100		5		40	122	20
Naphthalene	1900	0	1800	ug/Kg	95		0		35	123	20
4-Chloroaniline	1900	0	880	ug/Kg	46		10		17	106	20
Hexachlorobutadiene	1900	0	1900	ug/Kg	100		5		32	123	20
Caprolactam	1900	0	1800	ug/Kg	95		10		46	117	20
4-Chloro-3-methylphenol	1900	0	1900	ug/Kg	100		5		45	122	20
2-Methylnaphthalene	1900	0	1700	ug/Kg	89		7		38	122	20
Hexachlorocyclopentadiene	3900	0	4000	ug/Kg	103		13		43	112	20
2,4,6-Trichlorophenol	1900	0	2000	ug/Kg	105		5		39	126	20
2,4,5-Trichlorophenol	1900	0	2000	ug/Kg	105		0		41	124	20
1,1-Biphenyl	1900	0	1900	ug/Kg	100		5		40	117	20
2-Chloronaphthalene	1900	0	1800	ug/Kg	95		0		41	114	20
2-Nitroaniline	1900	0	2000	ug/Kg	105		0		44	127	20
Dimethylphthalate	1900	0	1800	ug/Kg	95		5		48	124	20
Acenaphthylene	1900	0	1900	ug/Kg	100		5		32	132	20
2,6-Dinitrotoluene	1900	0	1900	ug/Kg	100		5		46	124	20
3-Nitroaniline	1900	0	1200	ug/Kg	63		8		33	119	20
Acenaphthene	1900	0	1800	ug/Kg	95		7		40	123	20
2,4-Dinitrophenol	3900	0	4600	ug/Kg	118		3		15	130	20
4-Nitrophenol	3900	0	4000	ug/Kg	103		3		30	132	20
Dibenzofuran	1900	0	1800	ug/Kg	95		0		44	120	20
2,4-Dinitrotoluene	1900	0	2000	ug/Kg	105		0		48	126	20
Diethylphthalate	1900	0	1900	ug/Kg	100		0		50	124	20
4-Chlorophenyl-phenylether	1900	0	1800	ug/Kg	95		7		45	121	20
Fluorene	1900	0	1800	ug/Kg	95		0		43	125	20
4-Nitroaniline	1900	0	1900	ug/Kg	100		5		35	115	20
4,6-Dinitro-2-methylphenol	1900	0	2000	ug/Kg	105		0		29	132	20
N-Nitrosodiphenylamine	1900	0	1800	ug/Kg	95		0		38	127	20
4-Bromophenyl-phenylether	1900	0	1800	ug/Kg	95		5		46	124	20
Hexachlorobenzene	1900	0	1800	ug/Kg	95		0		45	122	20
Atrazine	1900	0	1900	ug/Kg	100		0		47	127	20

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2819 **Analytical Method:** SW8270E

Client: First Environment, Inc. **DataFile:** BP025517.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Pentachlorophenol	3900	0	4000	ug/Kg	103		3		25	133	20
Phenanthrene	1900	0	1800	ug/Kg	95		0		50	121	20
Anthracene	1900	0	1800	ug/Kg	95		0		47	123	20
Carbazole	1900	0	1800	ug/Kg	95		0		50	123	20
Di-n-butylphthalate	1900	0	1900	ug/Kg	100		0		51	128	20
Fluoranthene	1900	0	1800	ug/Kg	95		7		50	127	20
Pyrene	1900	0	1900	ug/Kg	100		10		47	127	20
Butylbenzylphthalate	1900	0	2000	ug/Kg	105		6		48	132	20
3,3-Dichlorobenzidine	1900	0	1300	ug/Kg	68		0		22	121	20
Benzo(a)anthracene	1900	0	1900	ug/Kg	100		5		49	126	20
Chrysene	1900	0	1900	ug/Kg	100		5		50	124	20
bis(2-Ethylhexyl)phthalate	1900	0	2000	ug/Kg	105		5		51	133	20
Di-n-octyl phthalate	1900	0	2000	ug/Kg	105		10		45	140	20
Benzo(b)fluoranthene	1900	0	1900	ug/Kg	100		0		45	132	20
Benzo(k)fluoranthene	1900	0	1900	ug/Kg	100		5		47	132	20
Benzo(a)pyrene	1900	0	1900	ug/Kg	100		5		45	129	20
Indeno(1,2,3-cd)pyrene	1900	0	1900	ug/Kg	100		0		45	133	20
Dibenz(a,h)anthracene	1900	0	1900	ug/Kg	100		0		45	134	20
Benzo(g,h,i)perylene	1900	0	1900	ug/Kg	100		0		43	134	20
1,2,4,5-Tetrachlorobenzene	1900	0	1900	ug/Kg	100		12		37	119	20
1,4-Dioxane	1900	0	1600	ug/Kg	84		6		70	130	20
2,3,4,6-Tetrachlorophenol	1900	0	1900	ug/Kg	100		5		44	125	20

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2819 **Analytical Method:** SW8270E

Client: First Environment, Inc. **DataFile:** BP025520.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q2819-17MS		**Client Sample ID: 38M-NMS**									
Benzaldehyde	1900	0	1000	ug/Kg	53				10	161	
Phenol	1900	0	1700	ug/Kg	89				34	121	
bis(2-Chloroethyl)ether	1900	0	1700	ug/Kg	89				31	120	
2-Chlorophenol	1900	0	1700	ug/Kg	89				34	121	
2-Methylphenol	1900	0	1700	ug/Kg	89				32	122	
2,2-oxybis(1-Chloropropane)	1900	0	1700	ug/Kg	89				33	131	
Acetophenone	1900	0	1700	ug/Kg	89				33	115	
3+4-Methylphenols	1900	0	1700	ug/Kg	89				34	119	
N-Nitroso-di-n-propylamine	1900	0	1600	ug/Kg	84				36	120	
Hexachloroethane	1900	0	1700	ug/Kg	89				28	117	
Nitrobenzene	1900	0	1800	ug/Kg	95				34	122	
Isophorone	1900	0	1700	ug/Kg	89				30	122	
2-Nitrophenol	1900	0	1800	ug/Kg	95				36	123	
2,4-Dimethylphenol	1900	0	1700	ug/Kg	89				30	127	
bis(2-Chloroethoxy)methane	1900	0	1700	ug/Kg	89				36	121	
2,4-Dichlorophenol	1900	0	1800	ug/Kg	95				40	122	
Naphthalene	1900	0	1700	ug/Kg	89				35	123	
4-Chloroaniline	1900	0	1200	ug/Kg	63				17	106	
Hexachlorobutadiene	1900	0	1700	ug/Kg	89				32	123	
Caprolactam	1900	0	1800	ug/Kg	95				46	117	
4-Chloro-3-methylphenol	1900	0	1800	ug/Kg	95				45	122	
2-Methylnaphthalene	1900	0	1600	ug/Kg	84				38	122	
Hexachlorocyclopentadiene	3800	0	3500	ug/Kg	92				43	112	
2,4,6-Trichlorophenol	1900	0	1800	ug/Kg	95				39	126	
2,4,5-Trichlorophenol	1900	0	1900	ug/Kg	100				41	124	
1,1-Biphenyl	1900	0	1700	ug/Kg	89				40	117	
2-Chloronaphthalene	1900	0	1700	ug/Kg	89				41	114	
2-Nitroaniline	1900	0	1900	ug/Kg	100				44	127	
Dimethylphthalate	1900	0	1700	ug/Kg	89				48	124	
Acenaphthylene	1900	0	1800	ug/Kg	95				32	132	
2,6-Dinitrotoluene	1900	0	1900	ug/Kg	100				46	124	
3-Nitroaniline	1900	0	1400	ug/Kg	74				33	119	
Acenaphthene	1900	0	1700	ug/Kg	89				40	123	
2,4-Dinitrophenol	3800	0	4200	ug/Kg	111				15	130	
4-Nitrophenol	3800	0	3900	ug/Kg	103				30	132	
Dibenzofuran	1900	0	1700	ug/Kg	89				44	120	
2,4-Dinitrotoluene	1900	0	1900	ug/Kg	100				48	126	
Diethylphthalate	1900	0	1800	ug/Kg	95				50	124	
4-Chlorophenyl-phenylether	1900	0	1700	ug/Kg	89				45	121	
Fluorene	1900	0	1700	ug/Kg	89				43	125	
4-Nitroaniline	1900	0	1800	ug/Kg	95				35	115	
4,6-Dinitro-2-methylphenol	1900	0	1900	ug/Kg	100				29	132	
N-Nitrosodiphenylamine	1900	0	1700	ug/Kg	89				38	127	
4-Bromophenyl-phenylether	1900	0	1700	ug/Kg	89				46	124	
Hexachlorobenzene	1900	0	1700	ug/Kg	89				45	122	
Atrazine	1900	0	1800	ug/Kg	95				47	127	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2819 **Analytical Method:** SW8270E

Client: First Environment, Inc. **DataFile:** BP025520.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Pentachlorophenol	3800	0	3700	ug/Kg	97				25	133	
Phenanthrene	1900	0	1700	ug/Kg	89				50	121	
Anthracene	1900	0	1700	ug/Kg	89				47	123	
Carbazole	1900	0	1800	ug/Kg	95				50	123	
Di-n-butylphthalate	1900	0	1800	ug/Kg	95				51	128	
Fluoranthene	1900	0	1700	ug/Kg	89				50	127	
Pyrene	1900	0	1700	ug/Kg	89				47	127	
Butylbenzylphthalate	1900	0	1800	ug/Kg	95				48	132	
3,3-Dichlorobenzidine	1900	0	1200	ug/Kg	63				22	121	
Benzo(a)anthracene	1900	0	1800	ug/Kg	95				49	126	
Chrysene	1900	0	1800	ug/Kg	95				50	124	
bis(2-Ethylhexyl)phthalate	1900	0	1800	ug/Kg	95				51	133	
Di-n-octyl phthalate	1900	0	1900	ug/Kg	100				45	140	
Benzo(b)fluoranthene	1900	0	1700	ug/Kg	89				45	132	
Benzo(k)fluoranthene	1900	0	1800	ug/Kg	95				47	132	
Benzo(a)pyrene	1900	0	1700	ug/Kg	89				45	129	
Indeno(1,2,3-cd)pyrene	1900	0	1800	ug/Kg	95				45	133	
Dibenz(a,h)anthracene	1900	0	1800	ug/Kg	95				45	134	
Benzo(g,h,i)perylene	1900	0	1800	ug/Kg	95				43	134	
1,2,4,5-Tetrachlorobenzene	1900	0	1700	ug/Kg	89				37	119	
1,4-Dioxane	1900	0	1600	ug/Kg	84				70	130	
2,3,4,6-Tetrachlorophenol	1900	0	1900	ug/Kg	100				44	125	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2819 **Analytical Method:** SW8270E

Client: First Environment, Inc. **DataFile:** BP025521.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q2819-17MSD		**Client Sample ID: 38M-NMSD**									
Benzaldehyde	1900	0	1100	ug/Kg	58	9			10	161	20
Phenol	1900	0	1800	ug/Kg	95	7			34	121	20
bis(2-Chloroethyl)ether	1900	0	1700	ug/Kg	89	0			31	120	20
2-Chlorophenol	1900	0	1800	ug/Kg	95	7			34	121	20
2-Methylphenol	1900	0	1800	ug/Kg	95	7			32	122	20
2,2-oxybis(1-Chloropropane)	1900	0	1700	ug/Kg	89	0			33	131	20
Acetophenone	1900	0	1800	ug/Kg	95	7			33	115	20
3+4-Methylphenols	1900	0	1700	ug/Kg	89	0			34	119	20
N-Nitroso-di-n-propylamine	1900	0	1600	ug/Kg	84	0			36	120	20
Hexachloroethane	1900	0	1800	ug/Kg	95	7			28	117	20
Nitrobenzene	1900	0	1900	ug/Kg	100	5			34	122	20
Isophorone	1900	0	1700	ug/Kg	89	0			30	122	20
2-Nitrophenol	1900	0	1900	ug/Kg	100	5			36	123	20
2,4-Dimethylphenol	1900	0	1800	ug/Kg	95	7			30	127	20
bis(2-Chloroethoxy)methane	1900	0	1800	ug/Kg	95	7			36	121	20
2,4-Dichlorophenol	1900	0	1900	ug/Kg	100	5			40	122	20
Naphthalene	1900	0	1800	ug/Kg	95	7			35	123	20
4-Chloroaniline	1900	0	960	ug/Kg	51	21		*	17	106	20
Hexachlorobutadiene	1900	0	1800	ug/Kg	95	7			32	123	20
Caprolactam	1900	0	1900	ug/Kg	100	5			46	117	20
4-Chloro-3-methylphenol	1900	0	1800	ug/Kg	95	0			45	122	20
2-Methylnaphthalene	1900	0	1700	ug/Kg	89	6			38	122	20
Hexachlorocyclopentadiene	3800	0	3700	ug/Kg	97	5			43	112	20
2,4,6-Trichlorophenol	1900	0	1900	ug/Kg	100	5			39	126	20
2,4,5-Trichlorophenol	1900	0	1900	ug/Kg	100	0			41	124	20
1,1-Biphenyl	1900	0	1800	ug/Kg	95	7			40	117	20
2-Chloronaphthalene	1900	0	1800	ug/Kg	95	7			41	114	20
2-Nitroaniline	1900	0	2000	ug/Kg	105	5			44	127	20
Dimethylphthalate	1900	0	1800	ug/Kg	95	7			48	124	20
Acenaphthylene	1900	0	1800	ug/Kg	95	0			32	132	20
2,6-Dinitrotoluene	1900	0	1900	ug/Kg	100	0			46	124	20
3-Nitroaniline	1900	0	1300	ug/Kg	68	8			33	119	20
Acenaphthene	1900	0	1800	ug/Kg	95	7			40	123	20
2,4-Dinitrophenol	3800	0	4400	ug/Kg	116	4			15	130	20
4-Nitrophenol	3800	0	4000	ug/Kg	105	2			30	132	20
Dibenzofuran	1900	0	1800	ug/Kg	95	7			44	120	20
2,4-Dinitrotoluene	1900	0	2000	ug/Kg	105	5			48	126	20
Diethylphthalate	1900	0	1900	ug/Kg	100	5			50	124	20
4-Chlorophenyl-phenylether	1900	0	1800	ug/Kg	95	7			45	121	20
Fluorene	1900	0	1800	ug/Kg	95	7			43	125	20
4-Nitroaniline	1900	0	1900	ug/Kg	100	5			35	115	20
4,6-Dinitro-2-methylphenol	1900	0	2000	ug/Kg	105	5			29	132	20
N-Nitrosodiphenylamine	1900	0	1800	ug/Kg	95	7			38	127	20
4-Bromophenyl-phenylether	1900	0	1800	ug/Kg	95	7			46	124	20
Hexachlorobenzene	1900	0	1800	ug/Kg	95	7			45	122	20
Atrazine	1900	0	1900	ug/Kg	100	5			47	127	20

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2819 **Analytical Method:** SW8270E

Client: First Environment, Inc. **DataFile:** BP025521.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Pentachlorophenol	3800	0	4000	ug/Kg	105		8		25	133	20
Phenanthrene	1900	0	1800	ug/Kg	95		7		50	121	20
Anthracene	1900	0	1800	ug/Kg	95		7		47	123	20
Carbazole	1900	0	1800	ug/Kg	95		0		50	123	20
Di-n-butylphthalate	1900	0	1900	ug/Kg	100		5		51	128	20
Fluoranthene	1900	0	1800	ug/Kg	95		7		50	127	20
Pyrene	1900	0	1800	ug/Kg	95		7		47	127	20
Butylbenzylphthalate	1900	0	2000	ug/Kg	105		10		48	132	20
3,3-Dichlorobenzidine	1900	0	1100	ug/Kg	58		8		22	121	20
Benzo(a)anthracene	1900	0	1800	ug/Kg	95		0		49	126	20
Chrysene	1900	0	1800	ug/Kg	95		0		50	124	20
bis(2-Ethylhexyl)phthalate	1900	0	1900	ug/Kg	100		5		51	133	20
Di-n-octyl phthalate	1900	0	1900	ug/Kg	100		0		45	140	20
Benzo(b)fluoranthene	1900	0	1900	ug/Kg	100		12		45	132	20
Benzo(k)fluoranthene	1900	0	1800	ug/Kg	95		0		47	132	20
Benzo(a)pyrene	1900	0	1800	ug/Kg	95		7		45	129	20
Indeno(1,2,3-cd)pyrene	1900	0	1800	ug/Kg	95		0		45	133	20
Dibenz(a,h)anthracene	1900	0	1800	ug/Kg	95		0		45	134	20
Benzo(g,h,i)perylene	1900	0	1800	ug/Kg	95		0		43	134	20
1,2,4,5-Tetrachlorobenzene	1900	0	1800	ug/Kg	95		7		37	119	20
1,4-Dioxane	1900	0	1600	ug/Kg	84		0		70	130	20
2,3,4,6-Tetrachlorophenol	1900	0	1900	ug/Kg	100		0		44	125	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2819 **Analytical Method:** 8270E

Client: First Environment, Inc. **DataFile:** BP025489.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB169242BS	Benzaldehyde	1700	940	ug/Kg	55				10	161	
	Phenol	1700	1600	ug/Kg	94				34	121	
	bis(2-Chloroethyl)ether	1700	1500	ug/Kg	88				31	120	
	2-Chlorophenol	1700	1600	ug/Kg	94				34	121	
	2-Methylphenol	1700	1600	ug/Kg	94				32	122	
	2,2-oxybis(1-Chloropropane)	1700	1600	ug/Kg	94				33	131	
	Acetophenone	1700	1600	ug/Kg	94				33	115	
	3+4-Methylphenols	1700	1600	ug/Kg	94				34	119	
	N-Nitroso-di-n-propylamine	1700	1500	ug/Kg	88				36	120	
	Hexachloroethane	1700	1500	ug/Kg	88				28	117	
	Nitrobenzene	1700	1600	ug/Kg	94				34	122	
	Isophorone	1700	1600	ug/Kg	94				30	122	
	2-Nitrophenol	1700	1600	ug/Kg	94				36	123	
	2,4-Dimethylphenol	1700	1700	ug/Kg	100				30	127	
	bis(2-Chloroethoxy)methane	1700	1600	ug/Kg	94				36	121	
	2,4-Dichlorophenol	1700	1700	ug/Kg	100				40	122	
	Naphthalene	1700	1600	ug/Kg	94				35	123	
	4-Chloroaniline	1700	1200	ug/Kg	71				17	106	
	Hexachlorobutadiene	1700	1600	ug/Kg	94				32	123	
	Caprolactam	1700	1900	ug/Kg	112				46	117	
	4-Chloro-3-methylphenol	1700	1800	ug/Kg	106				45	122	
	2-Methylnaphthalene	1700	1600	ug/Kg	94				38	122	
	Hexachlorocyclopentadiene	3300	2900	ug/Kg	88				43	112	
	2,4,6-Trichlorophenol	1700	1600	ug/Kg	94				39	126	
	2,4,5-Trichlorophenol	1700	1700	ug/Kg	100				41	124	
	1,1-Biphenyl	1700	1500	ug/Kg	88				40	117	
	2-Chloronaphthalene	1700	1500	ug/Kg	88				41	114	
	2-Nitroaniline	1700	1800	ug/Kg	106				44	127	
	Dimethylphthalate	1700	1700	ug/Kg	100				48	124	
	Acenaphthylene	1700	1600	ug/Kg	94				32	132	
	2,6-Dinitrotoluene	1700	1800	ug/Kg	106				46	124	
	3-Nitroaniline	1700	1400	ug/Kg	82				33	119	
	Acenaphthene	1700	1600	ug/Kg	94				40	123	
	2,4-Dinitrophenol	3300	4200	ug/Kg	127				15	130	
	4-Nitrophenol	3300	3800	ug/Kg	115				30	132	
	Dibenzofuran	1700	1600	ug/Kg	94				44	120	
	2,4-Dinitrotoluene	1700	1900	ug/Kg	112				48	126	
	Diethylphthalate	1700	1800	ug/Kg	106				50	124	
	4-Chlorophenyl-phenylether	1700	1600	ug/Kg	94				45	121	
	Fluorene	1700	1600	ug/Kg	94				43	125	
	4-Nitroaniline	1700	1800	ug/Kg	106				35	115	
	4,6-Dinitro-2-methylphenol	1700	1800	ug/Kg	106				29	132	
	N-Nitrosodiphenylamine	1700	1600	ug/Kg	94				38	127	
	4-Bromophenyl-phenylether	1700	1600	ug/Kg	94				46	124	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2819 **Analytical Method:** 8270E

Client: First Environment, Inc. **DataFile:** BP025489.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB169242BS	Hexachlorobenzene	1700	1600	ug/Kg	94				45	122	
	Atrazine	1700	1700	ug/Kg	100				47	127	
	Pentachlorophenol	3300	3600	ug/Kg	109				25	133	
	Phenanthrene	1700	1600	ug/Kg	94				50	121	
	Anthracene	1700	1600	ug/Kg	94				47	123	
	Carbazole	1700	1700	ug/Kg	100				50	123	
	Di-n-butylphthalate	1700	1700	ug/Kg	100				51	128	
	Fluoranthene	1700	1700	ug/Kg	100				50	127	
	Pyrene	1700	1600	ug/Kg	94				47	127	
	Butylbenzylphthalate	1700	1700	ug/Kg	100				48	132	
	3,3-Dichlorobenzidine	1700	1200	ug/Kg	71				22	121	
	Benzo(a)anthracene	1700	1700	ug/Kg	100				49	126	
	Chrysene	1700	1700	ug/Kg	100				50	124	
	bis(2-Ethylhexyl)phthalate	1700	1700	ug/Kg	100				51	133	
	Di-n-octyl phthalate	1700	1700	ug/Kg	100				45	140	
	Benzo(b)fluoranthene	1700	1800	ug/Kg	106				45	132	
	Benzo(k)fluoranthene	1700	1800	ug/Kg	106				47	132	
	Benzo(a)pyrene	1700	1700	ug/Kg	100				45	129	
	Indeno(1,2,3-cd)pyrene	1700	1700	ug/Kg	100				45	133	
	Dibenz(a,h)anthracene	1700	1700	ug/Kg	100				45	134	
	Benzo(g,h,i)perylene	1700	1700	ug/Kg	100				43	134	
	1,2,4,5-Tetrachlorobenzene	1700	1500	ug/Kg	88				37	119	
	1,4-Dioxane	1700	1100	ug/Kg	65		*		70	130	
	2,3,4,6-Tetrachlorophenol	1700	1800	ug/Kg	106				44	125	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2819 **Analytical Method:** 8270E

Client: First Environment, Inc. **DataFile:** BP025514.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB169259BS	Benzaldehyde	1700	840	ug/Kg	49				10	161	
	Phenol	1700	1400	ug/Kg	82				34	121	
	bis(2-Chloroethyl)ether	1700	1400	ug/Kg	82				31	120	
	2-Chlorophenol	1700	1500	ug/Kg	88				34	121	
	2-Methylphenol	1700	1400	ug/Kg	82				32	122	
	2,2-oxybis(1-Chloropropane)	1700	1400	ug/Kg	82				33	131	
	Acetophenone	1700	1500	ug/Kg	88				33	115	
	3+4-Methylphenols	1700	1300	ug/Kg	76				34	119	
	N-Nitroso-di-n-propylamine	1700	1300	ug/Kg	76				36	120	
	Hexachloroethane	1700	1500	ug/Kg	88				28	117	
	Nitrobenzene	1700	1500	ug/Kg	88				34	122	
	Isophorone	1700	1400	ug/Kg	82				30	122	
	2-Nitrophenol	1700	1600	ug/Kg	94				36	123	
	2,4-Dimethylphenol	1700	1500	ug/Kg	88				30	127	
	bis(2-Chloroethoxy)methane	1700	1400	ug/Kg	82				36	121	
	2,4-Dichlorophenol	1700	1500	ug/Kg	88				40	122	
	Naphthalene	1700	1500	ug/Kg	88				35	123	
	4-Chloroaniline	1700	730	ug/Kg	43				17	106	
	Hexachlorobutadiene	1700	1600	ug/Kg	94				32	123	
	Caprolactam	1700	1300	ug/Kg	76				46	117	
	4-Chloro-3-methylphenol	1700	1400	ug/Kg	82				45	122	
	2-Methylnaphthalene	1700	1400	ug/Kg	82				38	122	
	Hexachlorocyclopentadiene	3300	3400	ug/Kg	103				43	112	
	2,4,6-Trichlorophenol	1700	1600	ug/Kg	94				39	126	
	2,4,5-Trichlorophenol	1700	1600	ug/Kg	94				41	124	
	1,1-Biphenyl	1700	1500	ug/Kg	88				40	117	
	2-Chloronaphthalene	1700	1600	ug/Kg	94				41	114	
	2-Nitroaniline	1700	1600	ug/Kg	94				44	127	
	Dimethylphthalate	1700	1500	ug/Kg	88				48	124	
	Acenaphthylene	1700	1500	ug/Kg	88				32	132	
	2,6-Dinitrotoluene	1700	1500	ug/Kg	88				46	124	
	3-Nitroaniline	1700	1000	ug/Kg	59				33	119	
	Acenaphthene	1700	1500	ug/Kg	88				40	123	
	2,4-Dinitrophenol	3300	3600	ug/Kg	109				15	130	
	4-Nitrophenol	3300	3100	ug/Kg	94				30	132	
	Dibenzofuran	1700	1500	ug/Kg	88				44	120	
	2,4-Dinitrotoluene	1700	1500	ug/Kg	88				48	126	
	Diethylphthalate	1700	1500	ug/Kg	88				50	124	
	4-Chlorophenyl-phenylether	1700	1400	ug/Kg	82				45	121	
	Fluorene	1700	1400	ug/Kg	82				43	125	
	4-Nitroaniline	1700	1500	ug/Kg	88				35	115	
	4,6-Dinitro-2-methylphenol	1700	1700	ug/Kg	100				29	132	
	N-Nitrosodiphenylamine	1700	1500	ug/Kg	88				38	127	
	4-Bromophenyl-phenylether	1700	1500	ug/Kg	88				46	124	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2819 **Analytical Method:** 8270E

Client: First Environment, Inc. **DataFile:** BP025514.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB169259BS	Hexachlorobenzene	1700	1500	ug/Kg	88				45	122	
	Atrazine	1700	1600	ug/Kg	94				47	127	
	Pentachlorophenol	3300	3300	ug/Kg	100				25	133	
	Phenanthrene	1700	1500	ug/Kg	88				50	121	
	Anthracene	1700	1500	ug/Kg	88				47	123	
	Carbazole	1700	1600	ug/Kg	94				50	123	
	Di-n-butylphthalate	1700	1600	ug/Kg	94				51	128	
	Fluoranthene	1700	1600	ug/Kg	94				50	127	
	Pyrene	1700	1400	ug/Kg	82				47	127	
	Butylbenzylphthalate	1700	1600	ug/Kg	94				48	132	
	3,3-Dichlorobenzidine	1700	1200	ug/Kg	71				22	121	
	Benzo(a)anthracene	1700	1600	ug/Kg	94				49	126	
	Chrysene	1700	1600	ug/Kg	94				50	124	
	bis(2-Ethylhexyl)phthalate	1700	1600	ug/Kg	94				51	133	
	Di-n-octyl phthalate	1700	1800	ug/Kg	106				45	140	
	Benzo(b)fluoranthene	1700	1500	ug/Kg	88				45	132	
	Benzo(k)fluoranthene	1700	1600	ug/Kg	94				47	132	
	Benzo(a)pyrene	1700	1500	ug/Kg	88				45	129	
	Indeno(1,2,3-cd)pyrene	1700	1500	ug/Kg	88				45	133	
	Dibenz(a,h)anthracene	1700	1500	ug/Kg	88				45	134	
	Benzo(g,h,i)perylene	1700	1500	ug/Kg	88				43	134	
	1,2,4,5-Tetrachlorobenzene	1700	1600	ug/Kg	94				37	119	
	1,4-Dioxane	1700	1300	ug/Kg	76				70	130	
	2,3,4,6-Tetrachlorophenol	1700	1500	ug/Kg	88				44	125	

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

Client ID: PB169242BL

Lab Name: Alliance | Contract: FIRS02

Lab Code: ACE | SDG NO.: Q2819

Lab File ID: BP025488.D | Lab Sample ID: PB169242BL

Instrument ID: BNA_P | Date Extracted: 08/14/2025

Matrix: (soil/water) SOIL | Date Analyzed: 08/20/2025

Level: (low/med) LOW | Time Analyzed: 00:27

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB169242BS	PB169242BS	BP025489.D	08/20/2025
11M-W	Q2819-05	BP025500.D	08/20/2025
22BP-W	Q2819-03	BP025515.D	08/20/2025
22BP-WMS	Q2819-03MS	BP025516.D	08/20/2025
22BP-WMSD	Q2819-03MSD	BP025517.D	08/20/2025
84SB-E	Q2819-09	BP025518.D	08/20/2025
22BP-N	Q2819-01	BF143533.D	08/21/2025
11M-N	Q2819-07	BF143525.D	08/21/2025
11M-E	Q2819-08	BF143526.D	08/21/2025
11M-S	Q2819-06	BF143532.D	08/21/2025
22BP-E	Q2819-02	BP025524.D	08/21/2025
22BP-S	Q2819-04	BP025539.D	08/21/2025

COMMENTS:

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

Client ID: PB169259BL

Lab Name: Alliance | Contract: FIRS02

Lab Code: ACE | SDG NO.: Q2819

Lab File ID: BP025513.D | Lab Sample ID: PB169259BL

Instrument ID: BNA_P | Date Extracted: 08/15/2025

Matrix: (soil/water) SOIL | Date Analyzed: 08/20/2025

Level: (low/med) LOW | Time Analyzed: 19:08

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB169259BS	PB169259BS	BP025514.D	08/20/2025
38M-N	Q2819-17	BP025519.D	08/20/2025
38M-NMS	Q2819-17MS	BP025520.D	08/20/2025
38M-NMSD	Q2819-17MSD	BP025521.D	08/21/2025
84SB-W	Q2819-11	BF143531.D	08/21/2025
17M-W	Q2819-14	BF143505.D	08/21/2025
17M-N	Q2819-15	BF143506.D	08/21/2025
82H-E	Q2819-20	BF143504.D	08/21/2025
38M-W	Q2819-18	BF143507.D	08/21/2025
38M-E	Q2819-19	BF143508.D	08/21/2025
38M-S	Q2819-16	BP025540.D	08/21/2025
84SB-S	Q2819-10	BP025534.D	08/21/2025
17M-S	Q2819-12	BP025536.D	08/21/2025
17M-E	Q2819-13	BF143537.D	08/21/2025

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance | Contract: FIRS02

Lab Code: ACE | SDG NO.: Q2819

Lab File ID: BF143476.D | DFTPP Injection Date: 08/20/2025

Instrument ID: BNA_F | DFTPP Injection Time: 10:26

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.5 (1.9) 1
69	Mass 69 relative abundance	100
70	Less than 2.0% of mass 69	0.1 (0.5) 1
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
365	Greater than 1% of mass 198	3.8
441	Present, but less than mass 443	79.6
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.3 (19.3) 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	BF143477.D	08/20/2025	10:55
SSTDICC005	SSTDICC005	BF143478.D	08/20/2025	11:25
SSTDICC010	SSTDICC010	BF143479.D	08/20/2025	11:54
SSTDICC020	SSTDICC020	BF143480.D	08/20/2025	12:23
SSTDICCC040	SSTDICCC040	BF143481.D	08/20/2025	12:53
SSTDICC050	SSTDICC050	BF143482.D	08/20/2025	13:22
SSTDICC060	SSTDICC060	BF143483.D	08/20/2025	13:51
SSTDICC080	SSTDICC080	BF143484.D	08/20/2025	14:20

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SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance Contract: FIRS02

Lab Code: ACE SDG NO.: Q2819

Lab File ID: BF143497.D DFTPP Injection Date: 08/20/2025

Instrument ID: BNA_F DFTPP Injection Time: 21:36

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.6 (2) 1
69	Mass 69 relative abundance	100
70	Less than 2.0% of mass 69	0.2 (0.6) 1
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
365	Greater than 1% of mass 198	3.6
441	Present, but less than mass 443	83.2
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19 (19) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF143498.D	08/20/2025	22:05
82H-E	Q2819-20	BF143504.D	08/21/2025	00:58
17M-W	Q2819-14	BF143505.D	08/21/2025	01:27
17M-N	Q2819-15	BF143506.D	08/21/2025	01:56
38M-W	Q2819-18	BF143507.D	08/21/2025	02:25
38M-E	Q2819-19	BF143508.D	08/21/2025	02:54
SSTDCCC040EC	SSTDCCC040	BF143516.D	08/21/2025	06:44

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SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance Contract: FIRS02

Lab Code: ACE SDG NO.: Q2819

Lab File ID: BF143517.D DFTPP Injection Date: 08/21/2025

Instrument ID: BNA_F DFTPP Injection Time: 08:20

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.5 (1.9) 1
69	Mass 69 relative abundance	100
70	Less than 2.0% of mass 69	0.2 (0.6) 1
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.9
365	Greater than 1% of mass 198	3.8
441	Present, but less than mass 443	77.6
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.7 (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	BF143518.D	08/21/2025	09:21
11M-N	Q2819-07	BF143525.D	08/21/2025	12:46
11M-E	Q2819-08	BF143526.D	08/21/2025	13:15
84SB-SRE	Q2819-10RE	BF143530.D	08/21/2025	15:11
84SB-W	Q2819-11	BF143531.D	08/21/2025	15:40
11M-S	Q2819-06	BF143532.D	08/21/2025	16:09
22BP-N	Q2819-01	BF143533.D	08/21/2025	16:38
17M-E	Q2819-13	BF143537.D	08/21/2025	18:34
22BP-SRE	Q2819-04RE	BF143538.D	08/21/2025	19:03
SSTDCCC040EC	SSTDCCC040	BF143539.D	08/21/2025	19:32

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SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance Contract: FIRS02

Lab Code: ACE SDG NO.: Q2819

Lab File ID: BP025390.D DFTPP Injection Date: 08/14/2025

Instrument ID: BNA_P DFTPP Injection Time: 10:30

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.4 (1.6) 1
69	Mass 69 relative abundance	100
70	Less than 2.0% of mass 69	0.1 (0.4) 1
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
365	Greater than 1% of mass 198	4.4
441	Present, but less than mass 443	81.3
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.2 (19.2) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BP025392.D	08/14/2025	12:33
SSTDICC005	SSTDICC005	BP025393.D	08/14/2025	13:15
SSTDICC010	SSTDICC010	BP025394.D	08/14/2025	13:56
SSTDICC020	SSTDICC020	BP025395.D	08/14/2025	14:38
SSTDICCC040	SSTDICCC040	BP025396.D	08/14/2025	15:19
SSTDICC050	SSTDICC050	BP025397.D	08/14/2025	16:01
SSTDICC060	SSTDICC060	BP025398.D	08/14/2025	16:42
SSTDICC080	SSTDICC080	BP025399.D	08/14/2025	17:24

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SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance | Contract: FIRS02

Lab Code: ACE | SDG NO.: Q2819

Lab File ID: BP025486.D | DFTPP Injection Date: 08/19/2025

Instrument ID: BNA_P | DFTPP Injection Time: 23:05

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.6 (1.8) 1
69	Mass 69 relative abundance	100
70	Less than 2.0% of mass 69	0.2 (0.5) 1
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.9
365	Greater than 1% of mass 198	4.1
441	Present, but less than mass 443	78.2
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.2 (19.4) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BP025487.D	08/19/2025	23:46
PB169242BL	PB169242BL	BP025488.D	08/20/2025	00:27
PB169242BS	PB169242BS	BP025489.D	08/20/2025	01:07
11M-W	Q2819-05	BP025500.D	08/20/2025	08:38
SSTDCCC040EC	SSTDCCC040	BP025502.D	08/20/2025	10:41

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SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance Contract: FIRS02

Lab Code: ACE SDG NO.: Q2819

Lab File ID: BP025511.D DFTPP Injection Date: 08/20/2025

Instrument ID: BNA_P DFTPP Injection Time: 17:04

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.3 (1.1) 1
69	Mass 69 relative abundance	100
70	Less than 2.0% of mass 69	0.2 (0.7) 1
197	Less than 2.0% of mass 198	0.2
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.9
365	Greater than 1% of mass 198	4.4
441	Present, but less than mass 443	80.9
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19 (19) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BP025512.D	08/20/2025	18:27
PB169259BL	PB169259BL	BP025513.D	08/20/2025	19:08
PB169259BS	PB169259BS	BP025514.D	08/20/2025	19:49
22BP-W	Q2819-03	BP025515.D	08/20/2025	20:30
22BP-WMS	Q2819-03MS	BP025516.D	08/20/2025	21:11
22BP-WMSD	Q2819-03MSD	BP025517.D	08/20/2025	21:52
84SB-E	Q2819-09	BP025518.D	08/20/2025	22:32
38M-N	Q2819-17	BP025519.D	08/20/2025	23:13
38M-NMS	Q2819-17MS	BP025520.D	08/20/2025	23:54
38M-NMSD	Q2819-17MSD	BP025521.D	08/21/2025	00:35
22BP-E	Q2819-02	BP025524.D	08/21/2025	02:37
SSTDCCC040EC	SSTDCCC040	BP025526.D	08/21/2025	03:59

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SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance | Contract: FIRS02

Lab Code: ACE | SDG NO.: Q2819

Lab File ID: BP025527.D | DFTPP Injection Date: 08/21/2025

Instrument ID: BNA_P | DFTPP Injection Time: 06:01

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.6 (1.9) 1
69	Mass 69 relative abundance	100
70	Less than 2.0% of mass 69	0.2 (0.5) 1
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
365	Greater than 1% of mass 198	4.3
441	Present, but less than mass 443	79.6
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.2 (19.2) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BP025528.D	08/21/2025	06:42
84SB-S	Q2819-10	BP025534.D	08/21/2025	10:50
17M-S	Q2819-12	BP025536.D	08/21/2025	12:12
22BP-S	Q2819-04	BP025539.D	08/21/2025	14:15
38M-S	Q2819-16	BP025540.D	08/21/2025	14:56
SSTDCCC040EC	SSTDCCC040	BP025542.D	08/21/2025	17:11

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q2819

Client ID : SSTDCCC040 Date Analyzed: 08/20/2025

Lab File ID: BF143498.D Time Analyzed: 22:05

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	138596	6.928	522619	8.21	286971	9.97
	UPPER LIMIT	277192	7.428	1045240	8.71	573942	10.469
	LOWER LIMIT	69298	6.428	261310	7.71	143486	9.469
	EPA SAMPLE NO.						
01	17M-W	142193	6.93	527282	8.20	285511	9.96
02	17M-N	139750	6.93	529192	8.20	290910	9.96
03	38M-W	132869	6.93	502084	8.20	273604	9.96
04	38M-E	134162	6.93	513690	8.20	272115	9.96
05	82H-E	132245	6.93	508439	8.20	271455	9.96

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: Alliance

Lab Code: ACE SDG NO.: Q2819

Client ID: SSTDCCC040 Date Analyzed: 08/20/2025

Lab File ID: BF143498.D Time Analyzed: 22:05

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	448105	11.451	253253	14.098	290056	15.592
	UPPER LIMIT	896210	11.951	506506	14.598	580112	16.092
	LOWER LIMIT	224053	10.951	126627	13.598	145028	15.092
	EPA SAMPLE NO.						
01	17M-W	446327	11.45	240120	14.09	275939	15.59
02	17M-N	438066	11.45	243885	14.10	298964	15.59
03	38M-W	412276	11.45	227079	14.09	276806	15.59
04	38M-E	411656	11.45	229541	14.09	280374	15.59
05	82H-E	403457	11.45	245211	14.09	294419	15.59

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

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q2819

Client ID : SSTDCCC040 Date Analyzed: 08/21/2025

Lab File ID: BF143518.D Time Analyzed: 09:21

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	118001	6.928	448774	8.21	244595	9.96
	UPPER LIMIT	236002	7.428	897548	8.71	489190	10.463
	LOWER LIMIT	59000.5	6.428	224387	7.71	122298	9.463
	EPA SAMPLE NO.						
01	22BP-N	112966	6.93	428039	8.20	220061	9.96
02	22BP-SRE	111164	6.93	413757	8.20	203054	9.96
03	11M-S	125064	6.93	464209	8.20	240984	9.96
04	84SB-SRE	128328	6.93	480515	8.20	247608	9.96
05	84SB-W	122249	6.92	463361	8.20	234484	9.96
06	17M-E	110058	6.93	413680	8.20	209222	9.96
07	11M-N	118931	6.93	449576	8.20	234828	9.96
08	11M-E	121867	6.93	459647	8.20	239052	9.96

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: Alliance

Lab Code: ACE SDG NO.: Q2819

Client ID: SSTDCCC040 Date Analyzed: 08/21/2025

Lab File ID: BF143518.D Time Analyzed: 09:21

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	369706	11.451	222503	14.098	262934	15.592
	UPPER LIMIT	739412	11.951	445006	14.598	525868	16.092
	LOWER LIMIT	184853	10.951	111252	13.598	131467	15.092
	EPA SAMPLE NO.						
01	22BP-N	314605	11.45	220570	14.09	260684	15.59
02	22BP-SRE	265665	11.45	226574	14.09	247509	15.59
03	11M-S	350001	11.45	235917	14.09	279272	15.59
04	84SB-SRE	332938	11.45	239904	14.09	296752	15.59
05	84SB-W	317712	11.45	229692	14.09	283075	15.59
06	17M-E	282152	11.45	211843	14.09	251712	15.59
07	11M-N	338286	11.45	208452	14.09	261830	15.59
08	11M-E	332166	11.45	225807	14.09	280214	15.59

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

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q2819

Client ID : SSTDCCC040 Date Analyzed: 08/19/2025

Lab File ID: BP025487.D Time Analyzed: 23:46

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

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	159158	7.79	679178	10.56	450864	14.41
	UPPER LIMIT	318316	8.29	1358360	11.06	901728	14.913
	LOWER LIMIT	79579	7.29	339589	10.06	225432	13.913
	EPA SAMPLE NO.						
01	PB169242BL	158125	7.79	604850	10.56	392339	14.40
02	PB169242BS	125615	7.80	505871	10.57	363724	14.40
03	11M-W	157249	7.79	620638	10.56	425520	14.40

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: Alliance

Lab Code: ACE SDG NO.: Q2819

Client ID: SSTDCCC040 Date Analyzed: 08/19/2025

Lab File ID: BP025487.D Time Analyzed: 23:46

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

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	905283	17.207	932001	21.642	1054170	25.012
	UPPER LIMIT	1810570	17.707	1864000	22.142	2108340	25.512
	LOWER LIMIT	452642	16.707	466001	21.142	527085	24.512
	EPA SAMPLE NO.						
01	PB169242BL	837745	17.19	919387	21.63	1036560	25.00
02	PB169242BS	785967	17.19	837525	21.63	883653	24.99
03	11M-W	904666	17.20	991814	21.64	1041810	25.01

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

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q2819

Client ID : SSTDCCC040 Date Analyzed: 08/20/2025

Lab File ID: BP025512.D Time Analyzed: 18:27

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

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	166180	7.79	619421	10.55	355189	14.40
	UPPER LIMIT	332360	8.29	1238840	11.054	710378	14.895
	LOWER LIMIT	83090	7.29	309711	10.054	177595	13.895
	EPA SAMPLE NO.						
01	22BP-E	187825	7.78	720442	10.55	433642	14.40
02	PB169259BS	193210	7.78	716493	10.56	415906	14.40
03	22BP-W	192599	7.79	737181	10.55	449746	14.41
04	22BP-WMS	196853	7.79	796434	10.56	542391	14.41
05	38M-N	197854	7.78	774619	10.56	493782	14.40
06	38M-NMS	163086	7.78	635345	10.55	403432	14.41
07	38M-NMSD	171527	7.78	663397	10.55	422830	14.40
08	22BP-WMSD	184860	7.79	722280	10.56	447048	14.40
09	84SB-E	165240	7.78	628985	10.56	393407	14.40
10	PB169259BL	165727	7.78	604691	10.56	359341	14.41

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

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q2819

Client ID: SSTDCCC040 Date Analyzed: 08/20/2025

Lab File ID: BP025512.D Time Analyzed: 18:27

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

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	670328	17.201	721835	21.648	911460	25.03
	UPPER LIMIT	1340660	17.701	1443670	22.148	1822920	25.53
	LOWER LIMIT	335164	16.701	360918	21.148	455730	24.53
	EPA SAMPLE NO.						
01	22BP-E	813225	17.18	805252	21.62	975515	24.98
02	PB169259BS	793030	17.20	903156	21.65	1093750	25.02
03	22BP-W	801649	17.21	794728	21.65	990130	25.02
04	22BP-WMS	1090850	17.21	892873	21.64	958463	25.02
05	38M-N	941172	17.20	881283	21.64	996365	25.00
06	38M-NMS	837501	17.21	894140	21.65	1028740	25.01
07	38M-NMSD	876970	17.20	922591	21.65	1004400	25.01
08	22BP-WMSD	890323	17.21	903947	21.65	1025350	25.02
09	84SB-E	801033	17.20	913525	21.64	999794	25.01
10	PB169259BL	696145	17.21	803107	21.65	1000700	25.04

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: Alliance

Lab Code: ACE SDG NO.: Q2819

Client ID : SSTDCCC040 Date Analyzed: 08/21/2025

Lab File ID: BP025528.D Time Analyzed: 06:42

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

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	210336	7.79	893021	10.56	582847	14.40
	UPPER LIMIT	420672	8.29	1786040	11.06	1165690	14.901
	LOWER LIMIT	105168	7.29	446511	10.06	291424	13.901
	EPA SAMPLE NO.						
01	84SB-S	186498	7.78	731492	10.55	448798	14.40
02	17M-S	220677	7.78	884460	10.55	566498	14.40
03	38M-S	225369	7.78	870787	10.55	494598	14.41
04	22BP-S	193258	7.78	777260	10.55	486743	14.40

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: Alliance

Lab Code: ACE SDG NO.: Q2819

Client ID: SSTDCCC040 Date Analyzed: 08/21/2025

Lab File ID: BP025528.D Time Analyzed: 06:42

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

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	1185140	17.201	966898	21.642	954709	25.001
	UPPER LIMIT	2370280	17.701	1933800	22.142	1909420	25.501
	LOWER LIMIT	592570	16.701	483449	21.142	477355	24.501
	EPA SAMPLE NO.						
01	84SB-S	879089	17.20	947974	21.65	1103820	25.01
02	17M-S	1127810	17.20	1111830	21.65	1225650	25.02
03	38M-S	919172	17.21	943340	21.65	1078830	25.03
04	22BP-S	966815	17.20	966494	21.65	1099090	25.02

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

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

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

SAMPLE DATA

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/04/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	22BP-N	SDG No.:	Q2819
Lab Sample ID:	Q2819-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	82.9
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
BF143533.D	1	08/14/25 08:40	08/21/25 16:38	PB169242

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
100-52-7	Benzaldehyde	330	U	190	330	400	ug/Kg
108-95-2	Phenol	160	U	26.6	160	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	160	U	29.3	160	200	ug/Kg
95-57-8	2-Chlorophenol	160	U	29.4	160	200	ug/Kg
95-48-7	2-Methylphenol	160	U	36.0	160	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	160	U	45.2	160	200	ug/Kg
98-86-2	Acetophenone	160	U	35.5	160	200	ug/Kg
65794-96-9	3+4-Methylphenols	330	U	49.5	330	400	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	96.3	U	57.1	96.3	96.3	ug/Kg
67-72-1	Hexachloroethane	160	U	21.2	160	200	ug/Kg
98-95-3	Nitrobenzene	160	U	22.0	160	200	ug/Kg
78-59-1	Isophorone	160	U	39.5	160	200	ug/Kg
88-75-5	2-Nitrophenol	160	U	70.1	160	200	ug/Kg
105-67-9	2,4-Dimethylphenol	160	U	78.0	160	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	160	U	37.1	160	200	ug/Kg
120-83-2	2,4-Dichlorophenol	160	U	34.1	160	200	ug/Kg
91-20-3	Naphthalene	160	U	27.3	160	200	ug/Kg
106-47-8	4-Chloroaniline	160	U	42.6	160	200	ug/Kg
87-68-3	Hexachlorobutadiene	160	U	30.5	160	200	ug/Kg
105-60-2	Caprolactam	330	U	62.7	330	400	ug/Kg
59-50-7	4-Chloro-3-methylphenol	160	U	34.6	160	200	ug/Kg
91-57-6	2-Methylnaphthalene	160	U	30.8	160	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	330	U	140	330	400	ug/Kg
88-06-2	2,4,6-Trichlorophenol	160	U	23.8	160	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	160	U	35.0	160	200	ug/Kg
92-52-4	1,1-Biphenyl	160	U	26.3	160	200	ug/Kg
91-58-7	2-Chloronaphthalene	160	U	27.1	160	200	ug/Kg
88-74-4	2-Nitroaniline	160	U	57.9	160	200	ug/Kg
131-11-3	Dimethylphthalate	160	U	32.6	160	200	ug/Kg

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/04/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	22BP-N	SDG No.:	Q2819
Lab Sample ID:	Q2819-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	82.9
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
BF143533.D	1	08/14/25 08:40	08/21/25 16:38	PB169242

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	160	U	34.8	160	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	160	U	40.5	160	200	ug/Kg
99-09-2	3-Nitroaniline	160	U	55.4	160	200	ug/Kg
83-32-9	Acenaphthene	160	U	25.7	160	200	ug/Kg
51-28-5	2,4-Dinitrophenol	330	U	280	330	400	ug/Kg
100-02-7	4-Nitrophenol	330	U	130	330	400	ug/Kg
132-64-9	Dibenzofuran	160	U	27.3	160	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	160	U	60.3	160	200	ug/Kg
84-66-2	Diethylphthalate	160	U	34.1	160	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	160	U	32.2	160	200	ug/Kg
86-73-7	Fluorene	160	U	30.5	160	200	ug/Kg
100-01-6	4-Nitroaniline	160	U	77.3	160	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	330	U	120	330	400	ug/Kg
86-30-6	n-Nitrosodiphenylamine	160	U	39.6	160	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	160	U	33.5	160	200	ug/Kg
118-74-1	Hexachlorobenzene	160	U	30.5	160	200	ug/Kg
1912-24-9	Atrazine	160	U	40.9	160	200	ug/Kg
87-86-5	Pentachlorophenol	330	U	61.8	330	400	ug/Kg
85-01-8	Phenanthrene	160	U	25.2	160	200	ug/Kg
120-12-7	Anthracene	160	U	40.1	160	200	ug/Kg
86-74-8	Carbazole	160	U	37.6	160	200	ug/Kg
84-74-2	Di-n-butylphthalate	160	U	57.7	160	200	ug/Kg
206-44-0	Fluoranthene	130	J	36.1	160	200	ug/Kg
129-00-0	Pyrene	83.9	J	43.4	160	200	ug/Kg
85-68-7	Butylbenzylphthalate	160	U	86.0	160	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	330	U	44.2	330	400	ug/Kg
56-55-3	Benzo(a)anthracene	160	U	27.7	160	200	ug/Kg
218-01-9	Chrysene	160	U	24.0	160	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	160	U	71.3	160	200	ug/Kg
117-84-0	Di-n-octyl phthalate	330	U	100	330	400	ug/Kg
205-99-2	Benzo(b)fluoranthene	160	U	22.9	160	200	ug/Kg

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/04/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	22BP-N	SDG No.:	Q2819
Lab Sample ID:	Q2819-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	82.9
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
BF143533.D	1	08/14/25 08:40	08/21/25 16:38	PB169242

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	160	U	27.0	160	200	ug/Kg
50-32-8	Benzo(a)pyrene	160	U	35.5	160	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	160	U	35.0	160	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	160	U	33.0	160	200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	160	U	30.9	160	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	160	U	30.8	160	200	ug/Kg
123-91-1	1,4-Dioxane	160	UQ	54.4	160	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	160	U	33.0	160	200	ug/Kg
SURROGATES							
367-12-4	2-Fluorophenol	130		35 - 115		87%	SPK: 150
13127-88-3	Phenol-d6	136		34 - 127		91%	SPK: 150
4165-60-0	Nitrobenzene-d5	97.2		37 - 122		97%	SPK: 100
321-60-8	2-Fluorobiphenyl	93.8		44 - 115		94%	SPK: 100
118-79-6	2,4,6-Tribromophenol	134		39 - 132		89%	SPK: 150
1718-51-0	Terphenyl-d14	76.2		54 - 127		76%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	113000	6.928				
1146-65-2	Naphthalene-d8	428000	8.204				
15067-26-2	Acenaphthene-d10	220000	9.963				
1517-22-2	Phenanthrene-d10	315000	11.451				
1719-03-5	Chrysene-d12	221000	14.092				
1520-96-3	Perylene-d12	261000	15.592				
TENTATIVE IDENTIFIED COMPOUNDS							
000994-05-8	Butane, 2-methoxy-2-methyl-	2000	J			2.28	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	430	AB			5.17	ug/Kg
000119-61-9	Benzophenone	360	J			10.7	ug/Kg
001454-84-8	n-Nonadecanol-1	85.9	J			14.0	ug/Kg
000192-97-2	Benzo[e]pyrene	97.1	J			15.2	ug/Kg

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Report of Analysis

Client:	First Environment, Inc.			Date Collected:	08/04/25
Project:	USACE018-44 DOD			Date Received:	08/08/25
Client Sample ID:	22BP-N			SDG No.:	Q2819
Lab Sample ID:	Q2819-01			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	82.9
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
BF143533.D	1	08/14/25 08:40	08/21/25 16:38	PB169242

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	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\BF082125\
Data File : BF143533.D
Acq On : 21 Aug 2025 16:38
Operator : RC/JU
Sample : Q2819-01
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
22BP-N

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 08/22/2025
Supervised By :mohammad ahmed 08/22/2025

Quant Time: Aug 21 17:25:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 21 06:12:21 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.928	152	112966	20.000	ng	0.00
21) Naphthalene-d8	8.204	136	428039	20.000	ng	0.00
39) Acenaphthene-d10	9.963	164	220061	20.000	ng	0.00
64) Phenanthrene-d10	11.451	188	314605	20.000	ng	0.00
76) Chrysene-d12	14.092	240	220570	20.000	ng	-0.01
86) Perylene-d12	15.592	264	260684	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.569	112	842597	130.244	ng	0.00
7) Phenol-d6	6.563	99	1086824	136.089	ng	-0.01
23) Nitrobenzene-d5	7.486	82	713328	97.248	ng	-0.01
42) 2,4,6-Tribromophenol	10.757	330	273720	133.623	ng	0.00
45) 2-Fluorobiphenyl	9.280	172	1249277	93.822	ng	0.00
79) Terphenyl-d14	13.033	244	963544	76.231	ng	0.00
Target Compounds						Qvalue
75) Fluoranthene	12.668	202	48638	3.217	ng	99
78) Pyrene	12.898	202	37910	2.089	ng	98

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

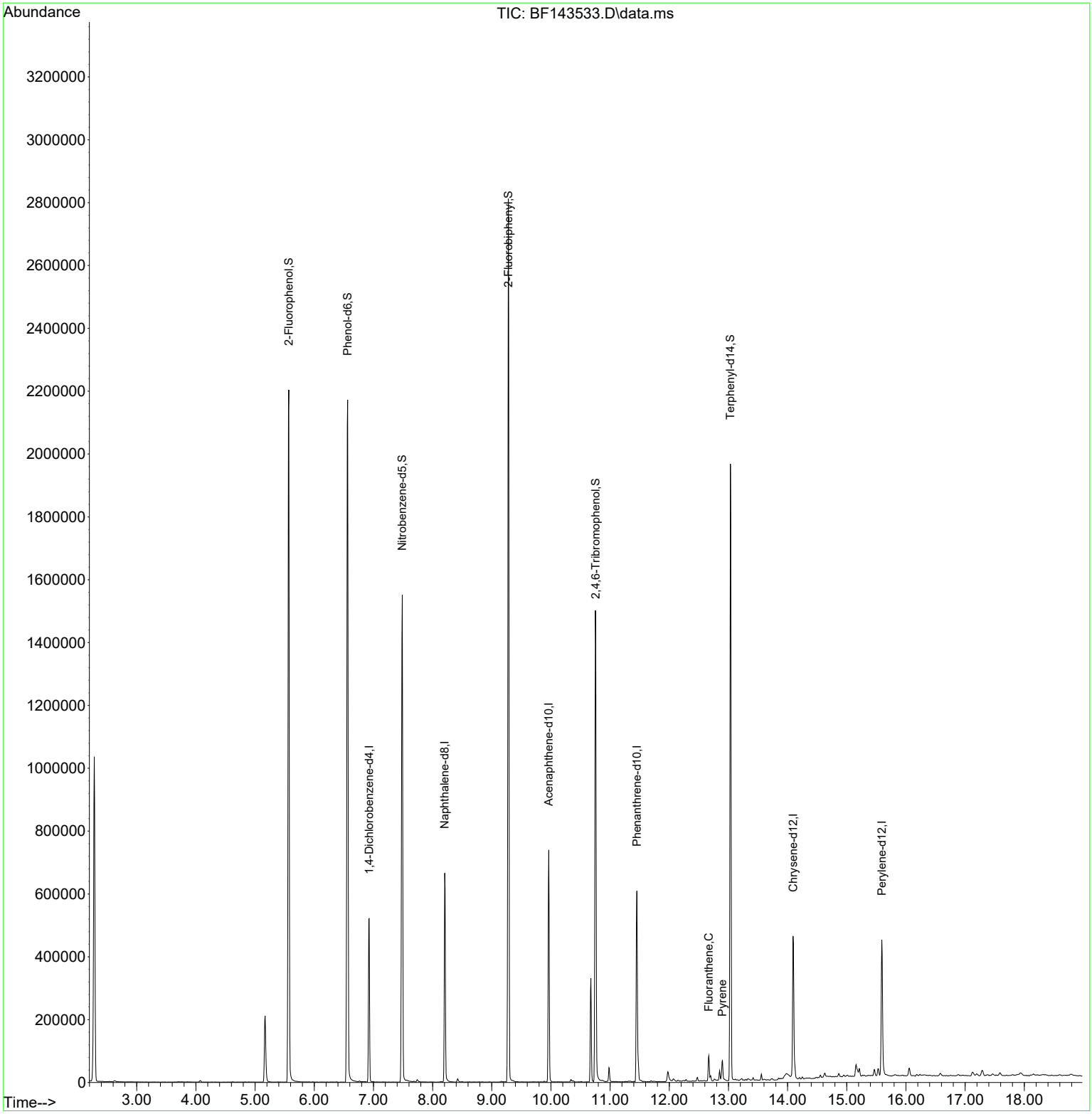
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
Data File : BF143533.D
Acq On : 21 Aug 2025 16:38
Operator : RC/JU
Sample : Q2819-01
Misc :
ALS Vial : 17 Sample Multiplier: 1

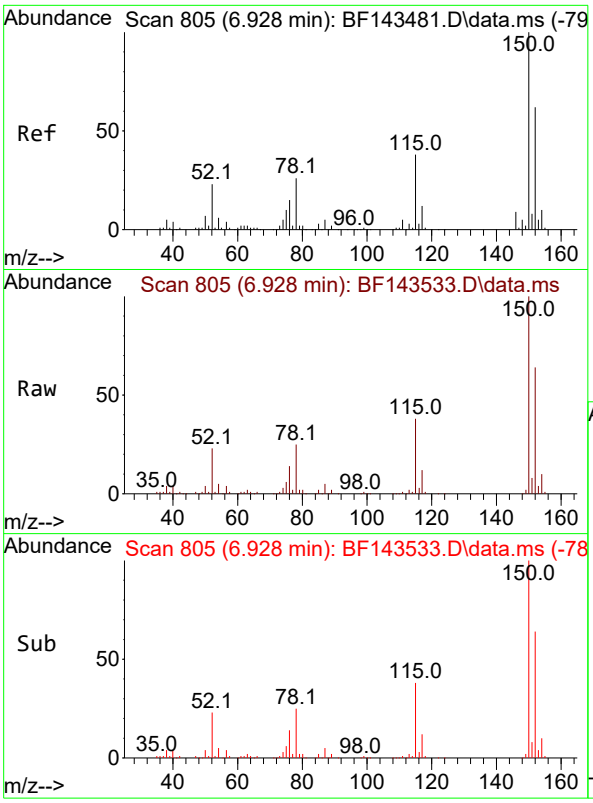
Quant Time: Aug 21 17:25:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 21 06:12:21 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
22BP-N

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 08/22/2025
Supervised By :mohammad ahmed 08/22/2025

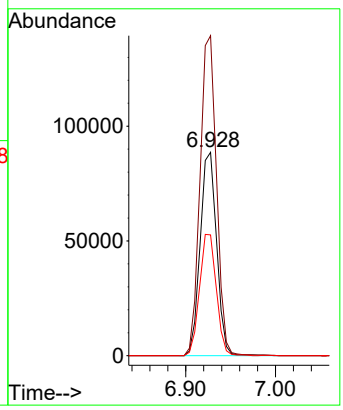




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.928 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF143533.D
Acq: 21 Aug 2025 16:38

Tgt Ion:152 Resp: 11296

Ion	Ratio	Lower	Upper
152	100		
150	157.3	128.9	193.3
115	59.4	49.2	73.8



Instrument :
BNA_F
ClientSampleId :
22BP-N

Manual Integrations
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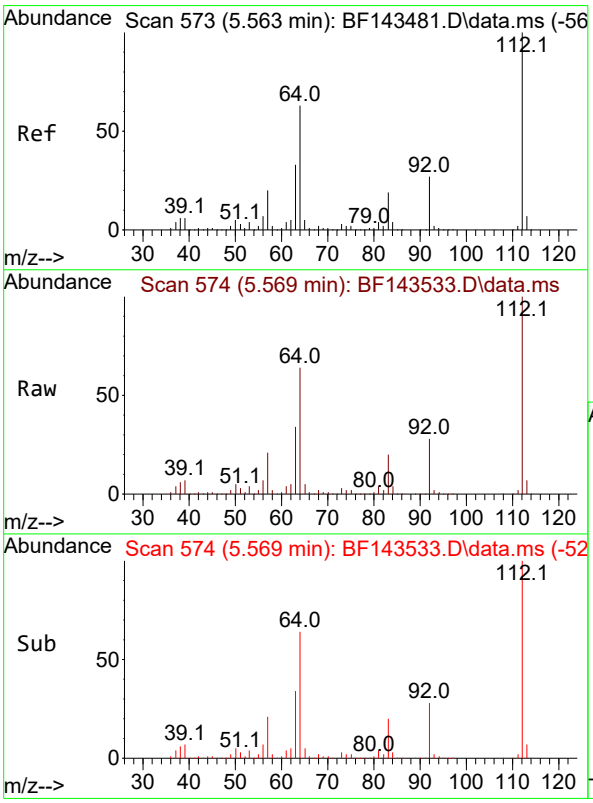
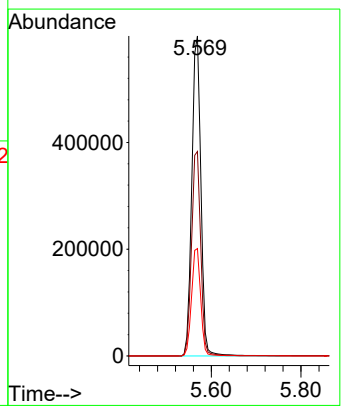
Supervised By :mohammad ahmed 08/22/2025

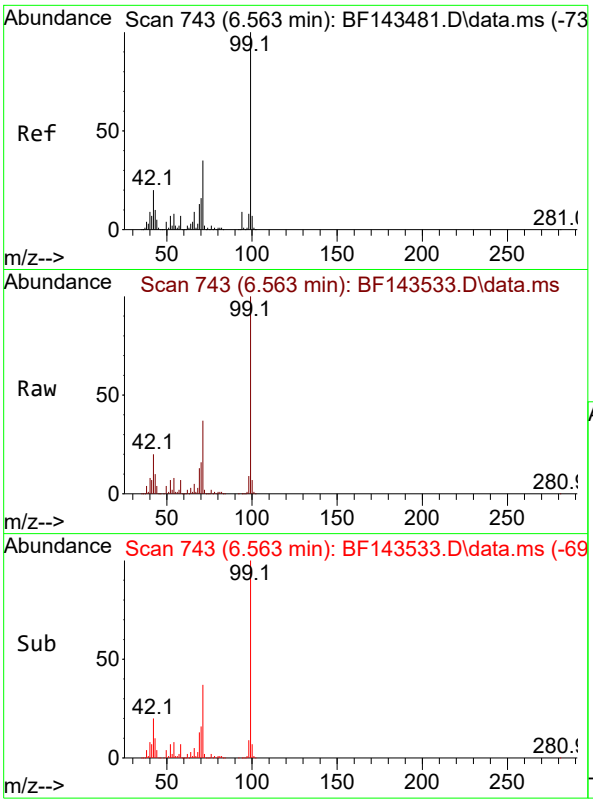


#5
2-Fluorophenol
Concen: 130.244 ng
RT: 5.569 min Scan# 574
Delta R.T. 0.006 min
Lab File: BF143533.D
Acq: 21 Aug 2025 16:38

Tgt Ion:112 Resp: 842597

Ion	Ratio	Lower	Upper
112	100		
64	63.9	50.4	75.6
63	33.5	26.4	39.6

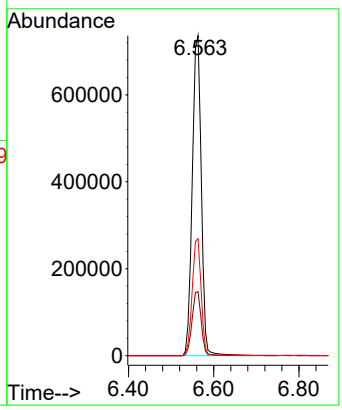




#7
Phenol-d6
Concen: 136.089 ng
RT: 6.563 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF143533.D
Acq: 21 Aug 2025 16:38

Tgt Ion: 99 Resp: 108682

Ion	Ratio	Lower	Upper
99	100		
42	20.0	16.3	24.5
71	36.5	28.2	42.2



Instrument :
BNA_F
ClientSampleId :
22BP-N

Manual Integrations
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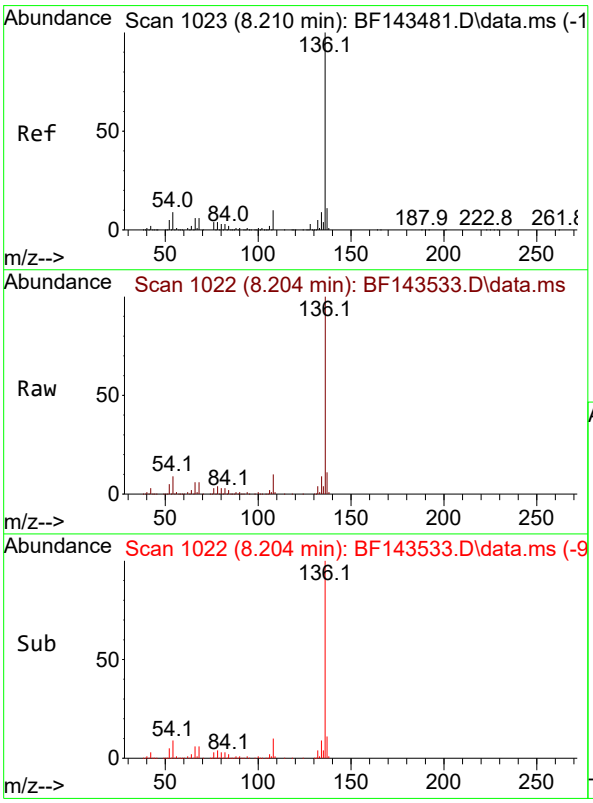
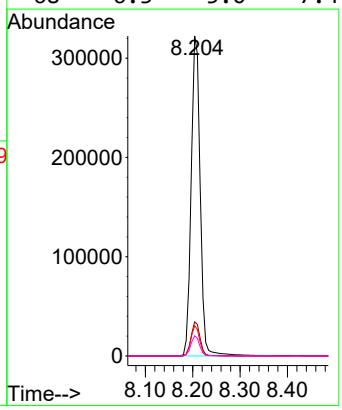
Supervised By :mohammad ahmed 08/22/2025

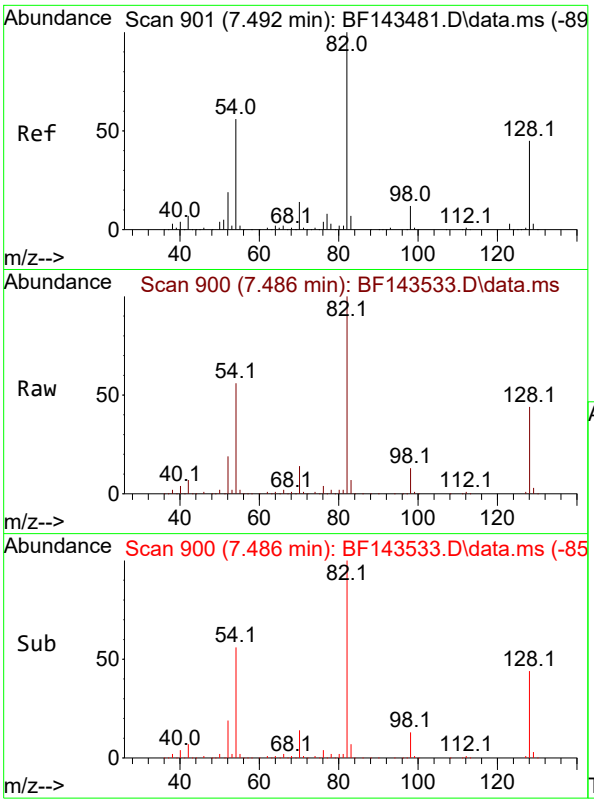


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.204 min Scan# 1022
Delta R.T. -0.006 min
Lab File: BF143533.D
Acq: 21 Aug 2025 16:38

Tgt Ion:136 Resp: 428039

Ion	Ratio	Lower	Upper
136	100		
137	10.7	9.0	13.4
54	9.5	7.4	11.2
68	6.3	5.0	7.4

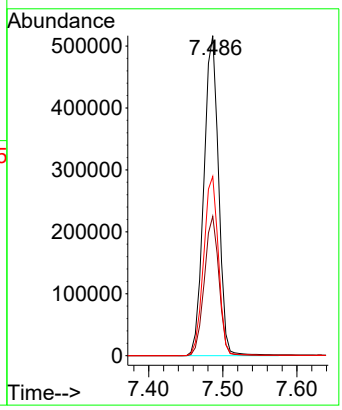




#23
Nitrobenzene-d5
Concen: 97.248 ng
RT: 7.486 min Scan# 9
Delta R.T. -0.012 min
Lab File: BF143533.D
Acq: 21 Aug 2025 16:38

Tgt Ion: 82 Resp: 71332

Ion	Ratio	Lower	Upper
82	100		
128	43.6	35.5	53.3
54	56.0	44.3	66.5



Instrument :
BNA_F
ClientSampleId :
22BP-N

Manual Integrations
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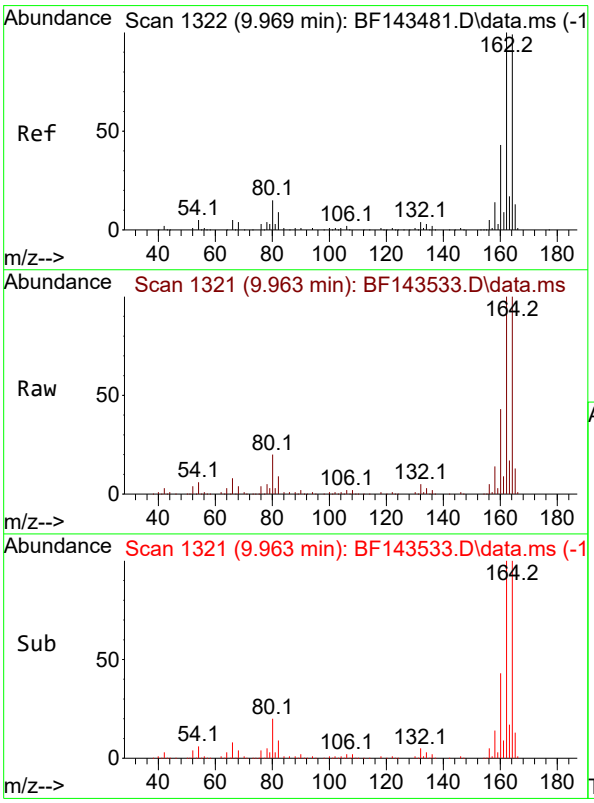
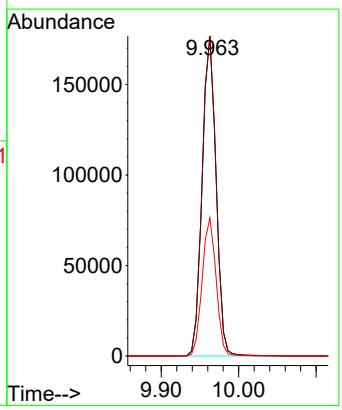
Reviewed By :Rahul Chavli 08/22/2025
Supervised By :mohammad ahmed 08/22/2025

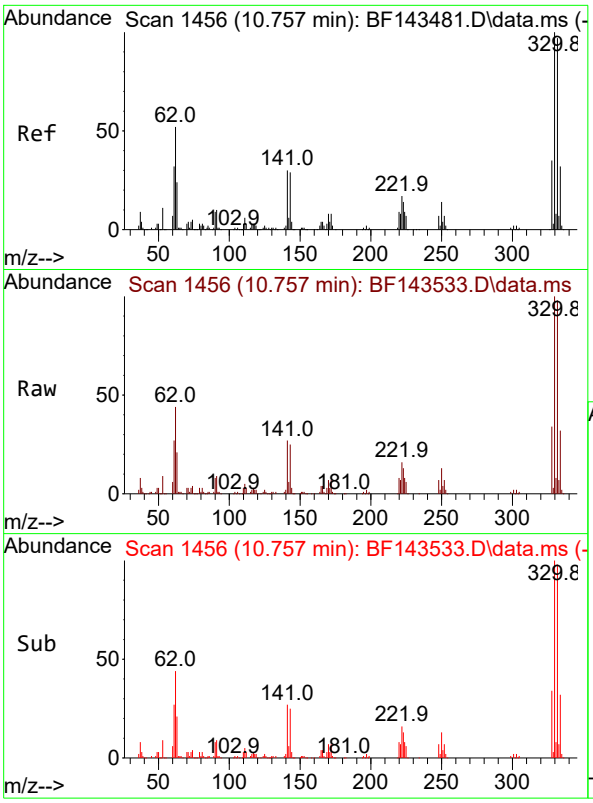


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.963 min Scan# 1321
Delta R.T. -0.006 min
Lab File: BF143533.D
Acq: 21 Aug 2025 16:38

Tgt Ion:164 Resp: 220061

Ion	Ratio	Lower	Upper
164	100		
162	100.2	80.5	120.7
160	43.2	34.3	51.5

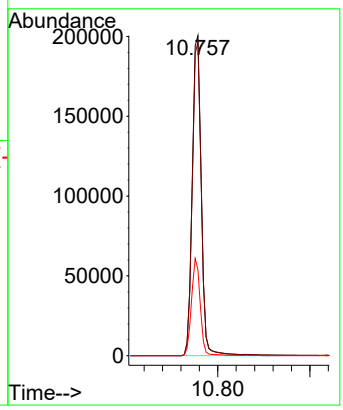




#42
2,4,6-Tribromophenol
Concen: 133.623 ng
RT: 10.757 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF143533.D
Acq: 21 Aug 2025 16:38

Tgt Ion:330 Resp: 27372(

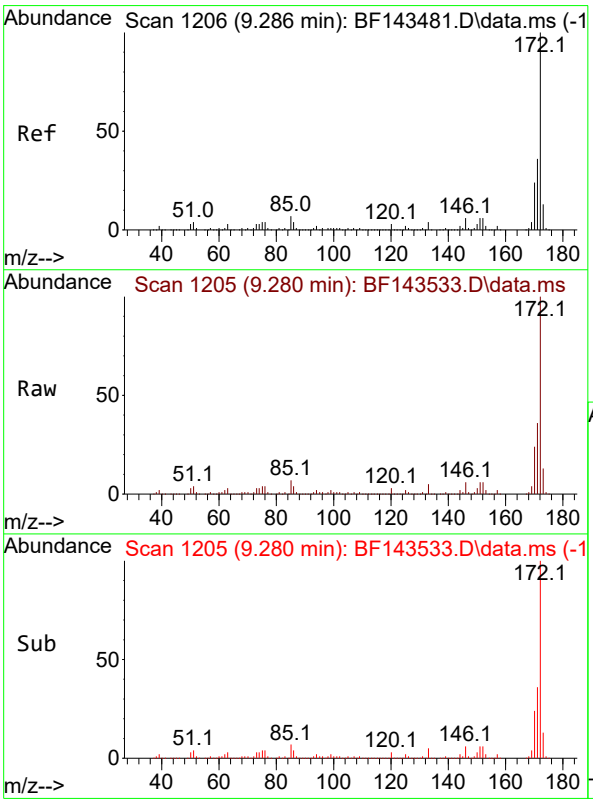
Ion	Ratio	Lower	Upper
330	100		
332	97.7	78.0	117.0
141	29.4	23.7	35.5



Instrument :
BNA_F
ClientSampleId :
22BP-N

Manual Integrations
APPROVED

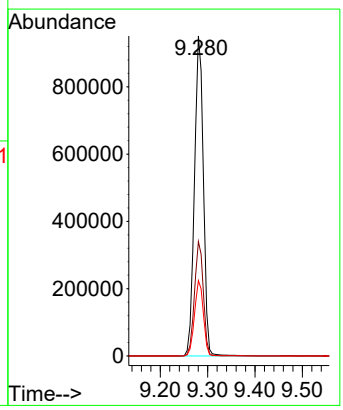
Reviewed By :Rahul Chavli 08/22/2025
Supervised By :mohammad ahmed 08/22/2025

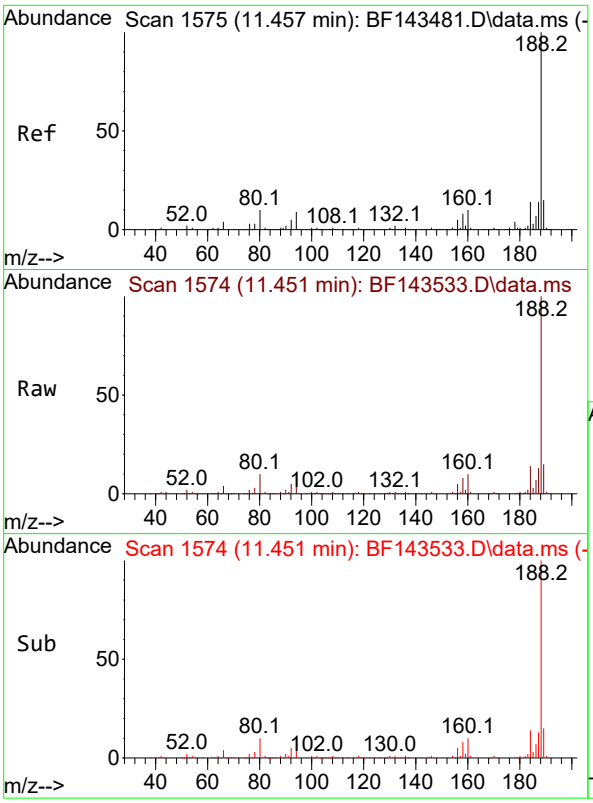


#45
2-Fluorobiphenyl
Concen: 93.822 ng
RT: 9.280 min Scan# 1205
Delta R.T. -0.006 min
Lab File: BF143533.D
Acq: 21 Aug 2025 16:38

Tgt Ion:172 Resp: 1249277

Ion	Ratio	Lower	Upper
172	100		
171	35.7	28.8	43.2
170	23.5	18.8	28.2

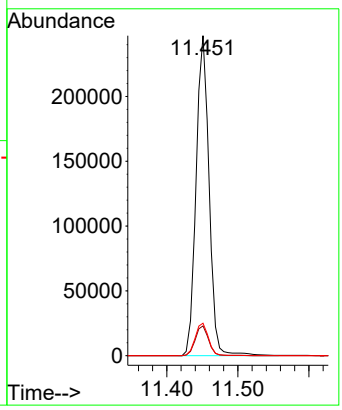




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.451 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143533.D
Acq: 21 Aug 2025 16:38

Tgt Ion:188 Resp: 31460

Ion	Ratio	Lower	Upper
188	100		
94	9.3	7.4	11.2
80	10.2	8.2	12.4



Instrument :
BNA_F
ClientSampleId :
22BP-N

Manual Integrations
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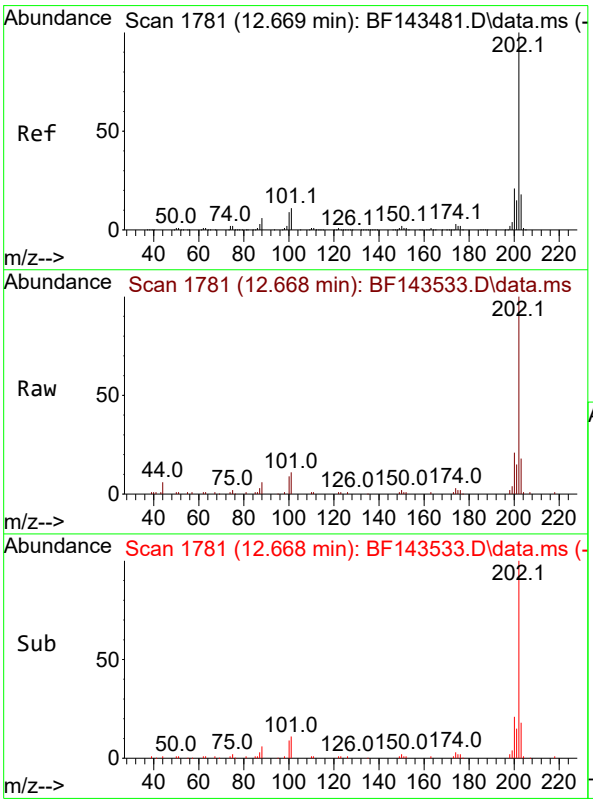
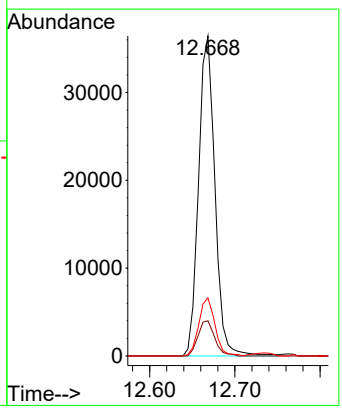
Supervised By :mohammad ahmed 08/22/2025

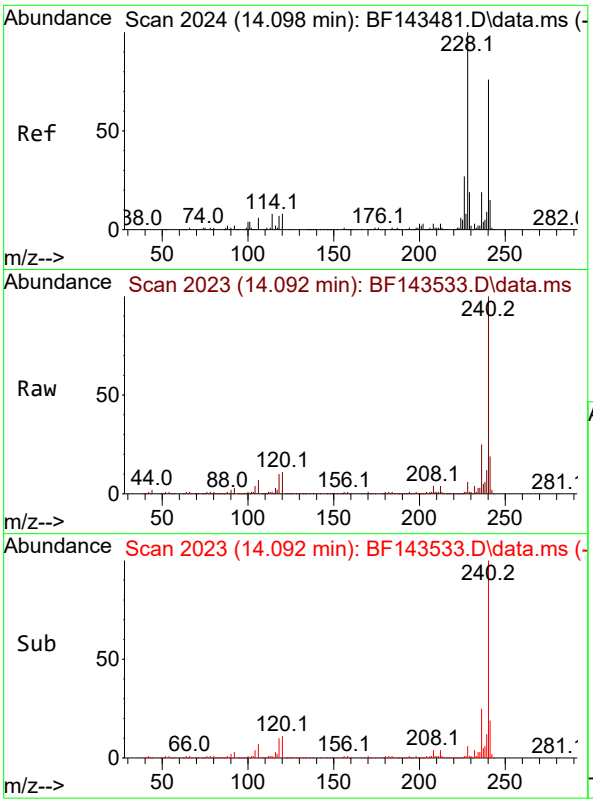


#75
Fluoranthene
Concen: 3.217 ng
RT: 12.668 min Scan# 1781
Delta R.T. -0.006 min
Lab File: BF143533.D
Acq: 21 Aug 2025 16:38

Tgt Ion:202 Resp: 48638

Ion	Ratio	Lower	Upper
202	100		
101	11.0	0.0	31.3
203	18.2	0.0	37.9

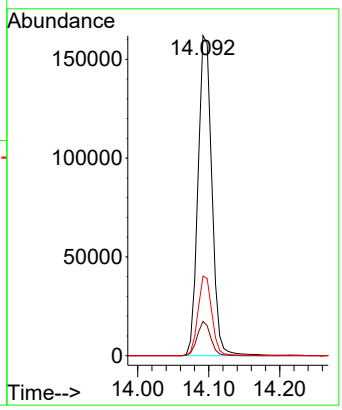




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.092 min Scan# 2(
Delta R.T. -0.012 min
Lab File: BF143533.D
Acq: 21 Aug 2025 16:38

Tgt Ion:240 Resp: 22057(

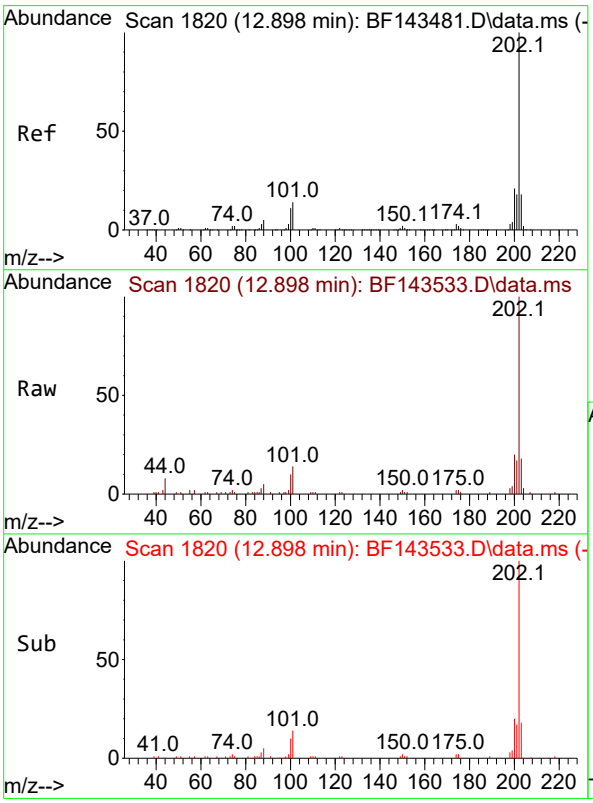
Ion	Ratio	Lower	Upper
240	100		
120	10.7	8.6	12.8
236	24.9	20.4	30.6



Instrument :
BNA_F
ClientSampleId :
22BP-N

Manual Integrations
APPROVED

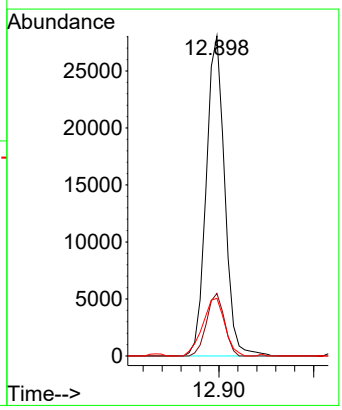
Reviewed By :Rahul Chavli 08/22/2025
Supervised By :mohammad ahmed 08/22/2025

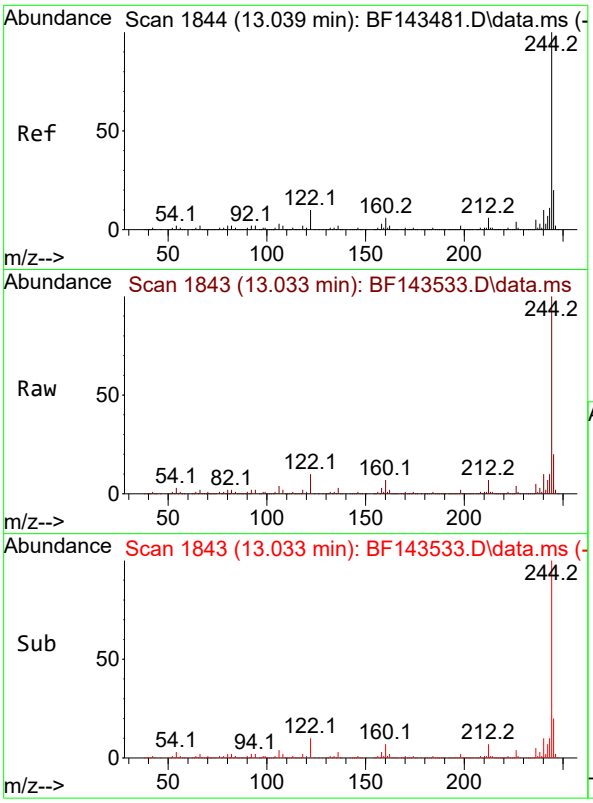


#78
Pyrene
Concen: 2.089 ng
RT: 12.898 min Scan# 1820
Delta R.T. -0.006 min
Lab File: BF143533.D
Acq: 21 Aug 2025 16:38

Tgt Ion:202 Resp: 37910

Ion	Ratio	Lower	Upper
202	100		
200	19.6	17.0	25.4
203	18.0	14.3	21.5

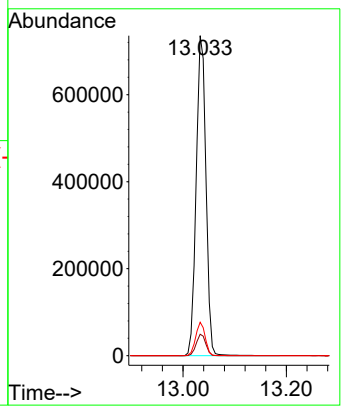




#79
Terphenyl-d14
Concen: 76.231 ng
RT: 13.033 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143533.D
Acq: 21 Aug 2025 16:38

Tgt Ion:244 Resp: 96354

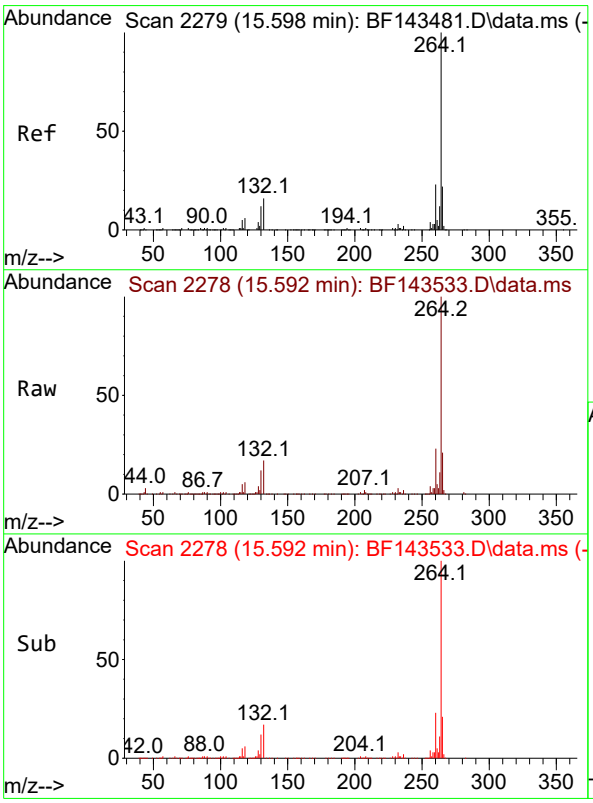
Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.2	7.8
122	10.4	7.9	11.9



Instrument :
BNA_F
ClientSampleId :
22BP-N

Manual Integrations
APPROVED

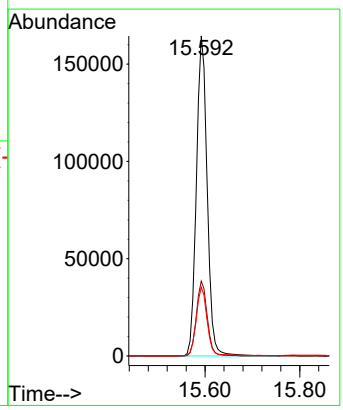
Reviewed By :Rahul Chavli 08/22/2025
Supervised By :mohammad ahmed 08/22/2025



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.592 min Scan# 2278
Delta R.T. -0.006 min
Lab File: BF143533.D
Acq: 21 Aug 2025 16:38

Tgt Ion:264 Resp: 260684

Ion	Ratio	Lower	Upper
264	100		
260	23.4	18.7	28.1
265	21.5	17.6	26.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
Data File : BF143533.D
Acq On : 21 Aug 2025 16:38
Operator : RC/JU
Sample : Q2819-01
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
22BP-N

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-BF082025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF143533.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.281	6	15	27	rVB	1032942	1665288	45.81%	6.850%
2	5.169	497	506	526	rBV	211043	356788	9.82%	1.468%
3	5.569	568	574	595	rBV	2202785	3105955	85.44%	12.776%
4	6.563	736	743	771	rBV	2171013	3220531	88.60%	13.248%
5	6.928	799	805	813	rBV	519441	668759	18.40%	2.751%
6	7.486	893	900	905	rBV	1550100	2123310	58.41%	8.734%
7	8.204	1017	1022	1039	rBV	664829	871656	23.98%	3.586%
8	9.280	1199	1205	1210	rBV	2810731	3635110	100.00%	14.953%
9	9.963	1316	1321	1333	rVB	738154	920932	25.33%	3.788%
10	10.674	1437	1442	1450	rBV	329456	414067	11.39%	1.703%
11	10.751	1450	1455	1471	rBV	1498893	2015856	55.46%	8.292%
12	10.980	1485	1494	1502	rVB	43762	57401	1.58%	0.236%
13	11.451	1569	1574	1592	rBV	607528	846808	23.30%	3.483%
14	11.974	1656	1663	1675	rBV4	31384	70423	1.94%	0.290%
15	12.668	1776	1781	1784	rBV	79370	103462	2.85%	0.426%
16	12.898	1815	1820	1834	rVB	64138	105610	2.91%	0.434%
17	13.033	1838	1843	1854	rBV	1961909	2549011	70.12%	10.485%
18	13.980	1994	2004	2015	rBV7	15076	73280	2.02%	0.301%
19	14.092	2018	2023	2037	rVB	454640	683369	18.80%	2.811%
20	15.157	2199	2204	2210	rBV	36885	84442	2.32%	0.347%
21	15.592	2272	2278	2289	rBV	430868	696618	19.16%	2.866%
22	16.056	2352	2357	2364	rVB	24141	41488	1.14%	0.171%

Sum of corrected areas: 24310164

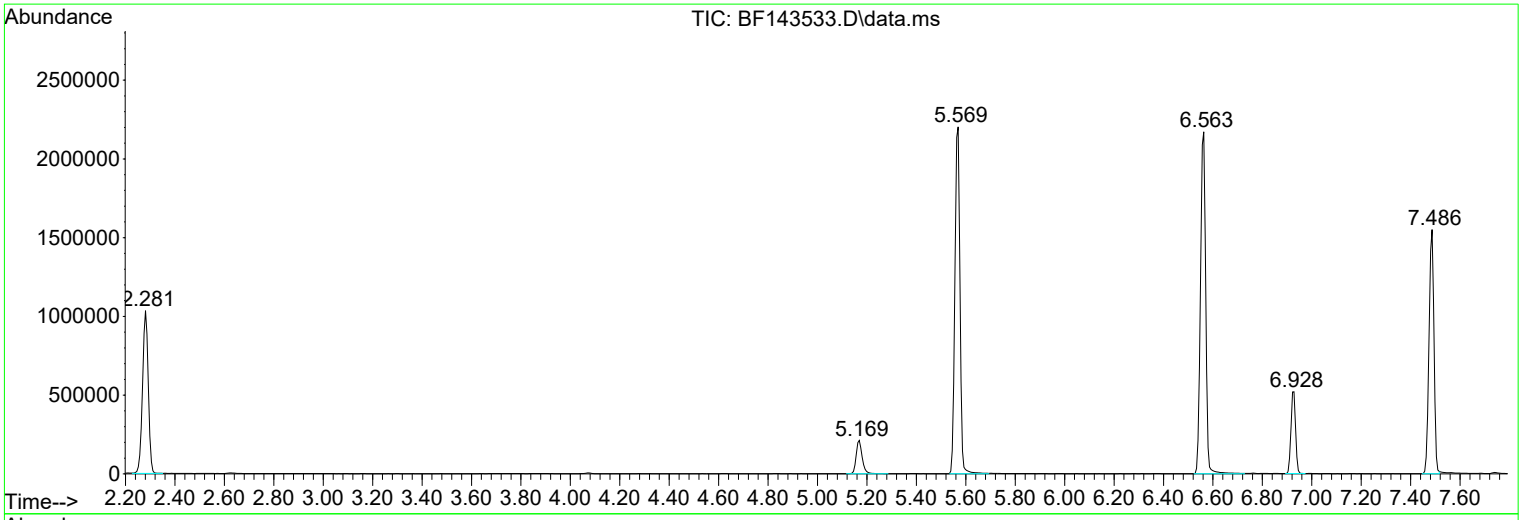
Sample Results: **BF143533.D**

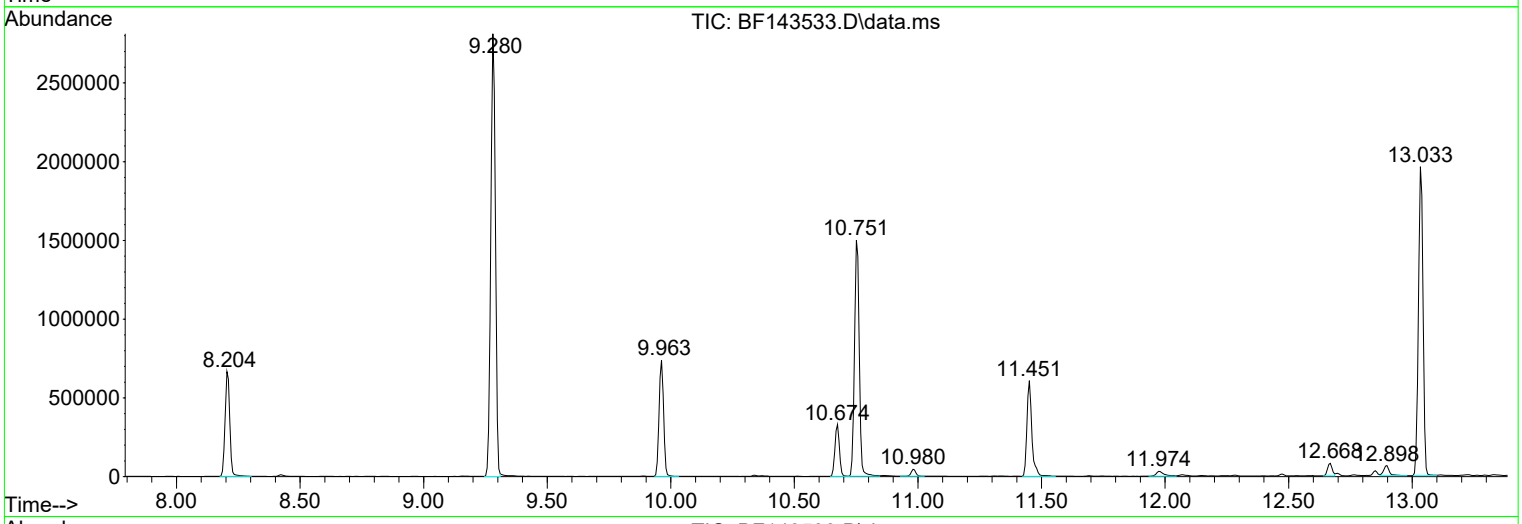
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
Data File : BF143533.D
Acq On : 21 Aug 2025 16:38
Operator : RC/JU
Sample : Q2819-01
Misc :
ALS Vial : 17 Sample Multiplier: 1

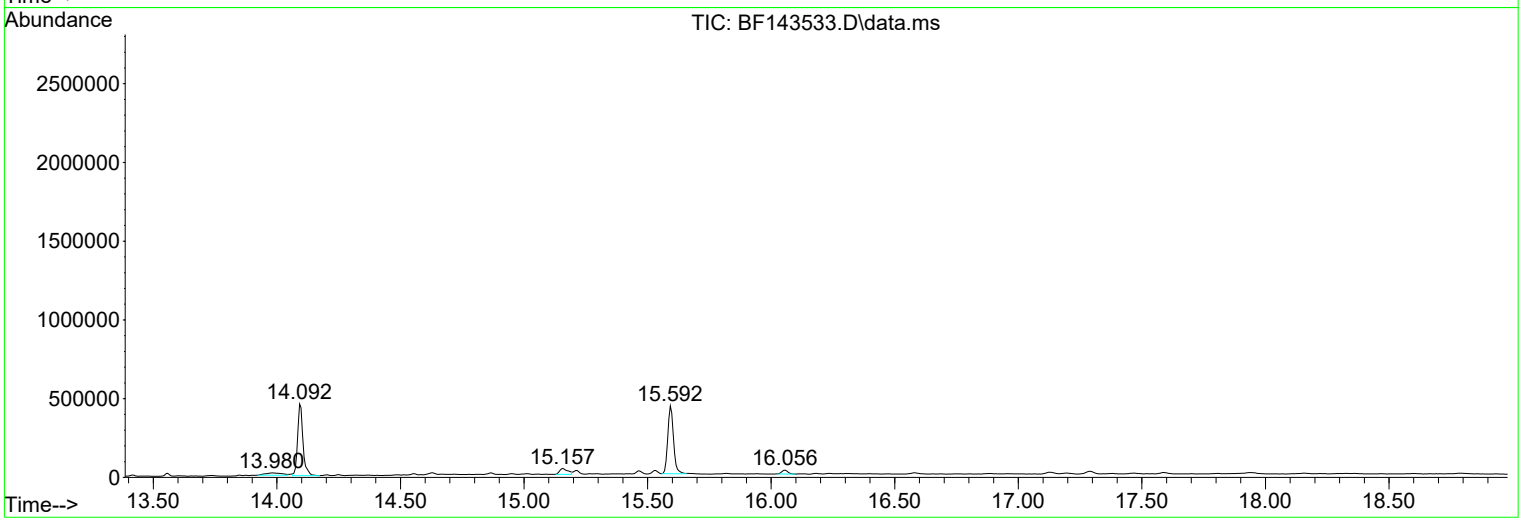
Instrument :
BNA_F
ClientSampleId :
22BP-N

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.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\BF082125\
Data File : BF143533.D
Acq On : 21 Aug 2025 16:38
Operator : RC/JU
Sample : Q2819-01
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
22BP-N

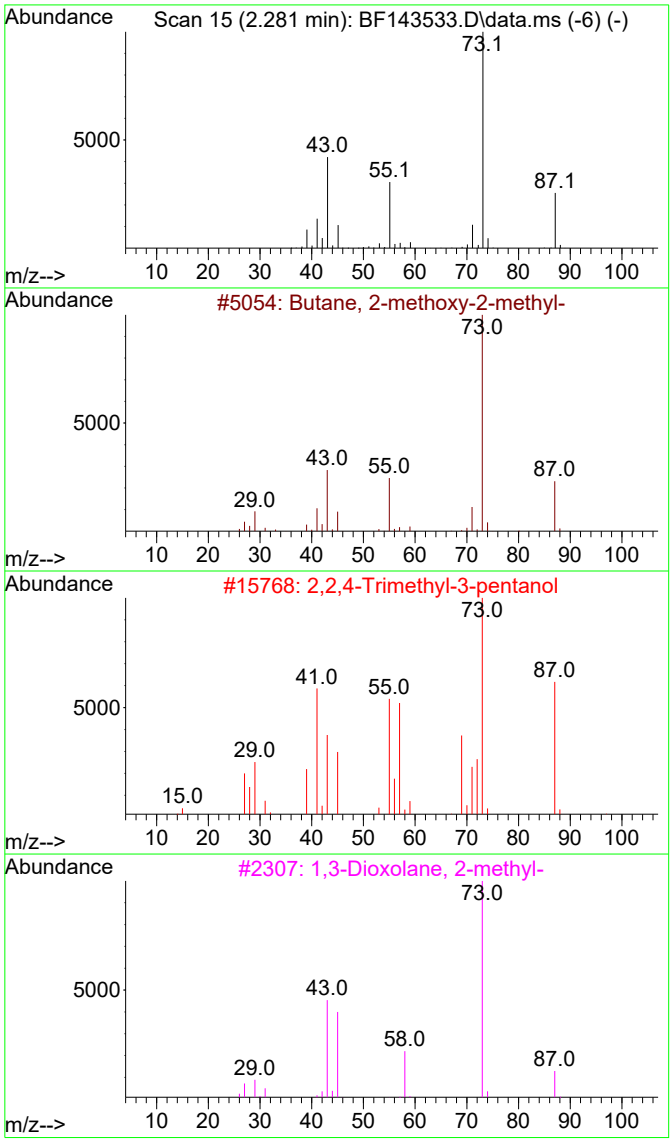
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

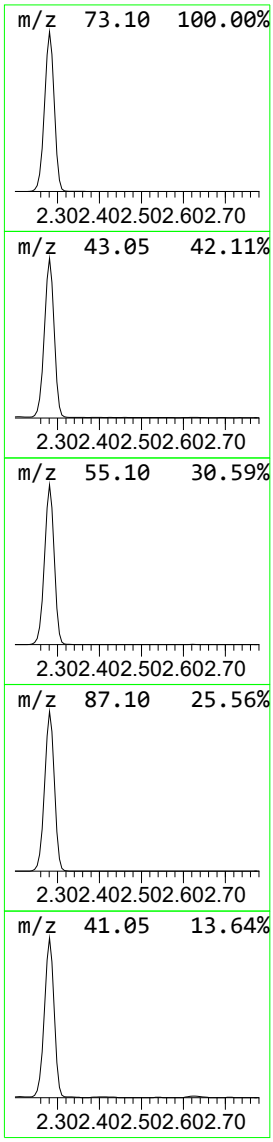
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.281	49.80 ng	1665290	1,4-Dichlorobenzene-d4	6.928

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	83
2	2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	39
3	1,3-Dioxolane, 2-methyl-	88	C4H8O2	000497-26-7	25
4	Octanal, 7-methoxy-3,7-dimethyl-	186	C11H22O2	003613-30-7	17
5	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	12





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
Data File : BF143533.D
Acq On : 21 Aug 2025 16:38
Operator : RC/JU
Sample : Q2819-01
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
22BP-N

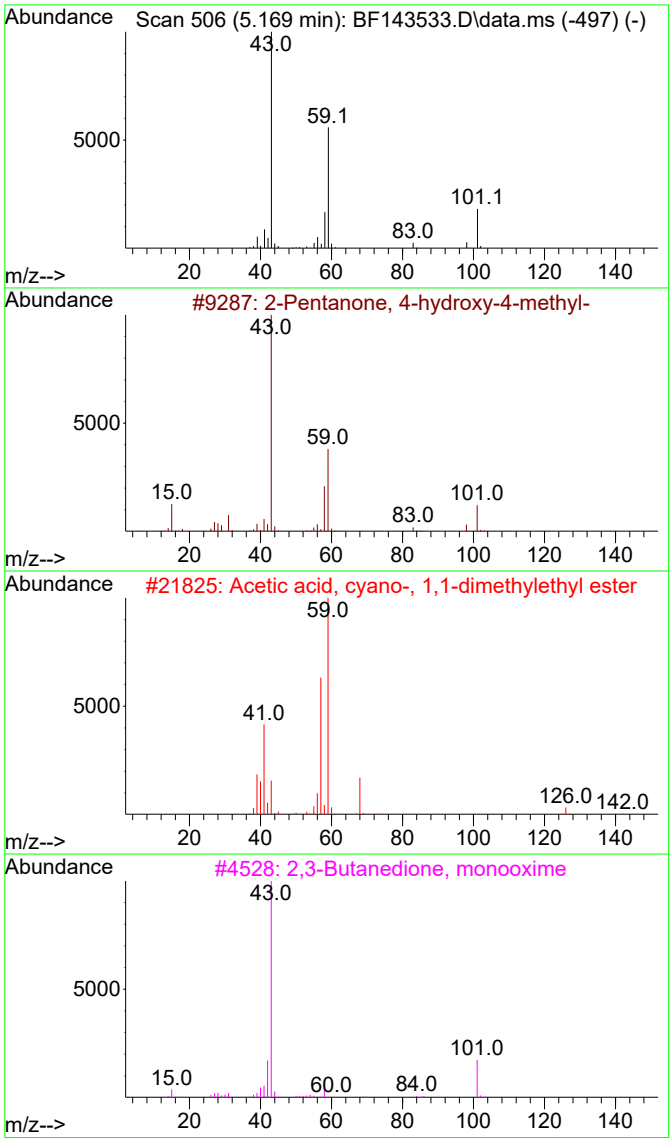
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

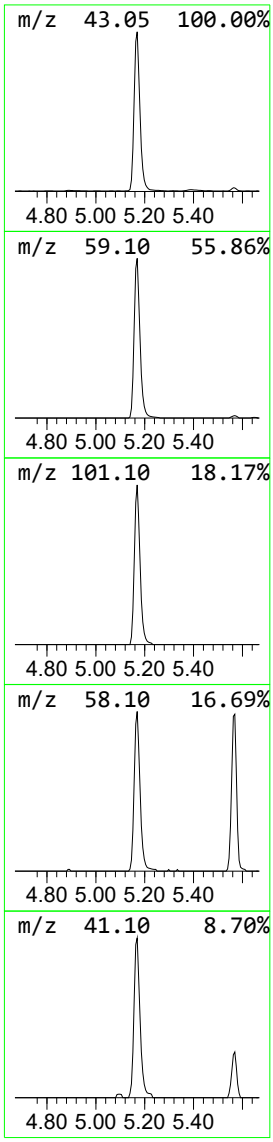
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.169	10.67 ng	356788	1,4-Dichlorobenzene-d4	6.928

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	59
2	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	37
3	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	16
4	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	12
5	Morpholine, 4-methyl-	101	C5H11NO	000109-02-4	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
Data File : BF143533.D
Acq On : 21 Aug 2025 16:38
Operator : RC/JU
Sample : Q2819-01
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
22BP-N

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

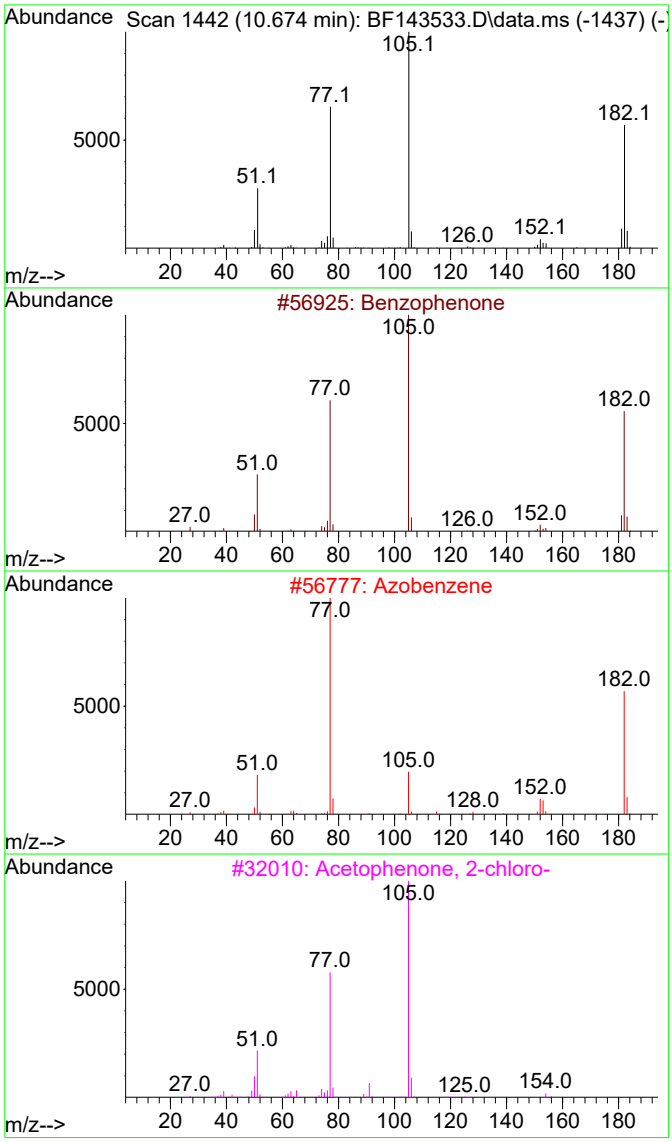
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

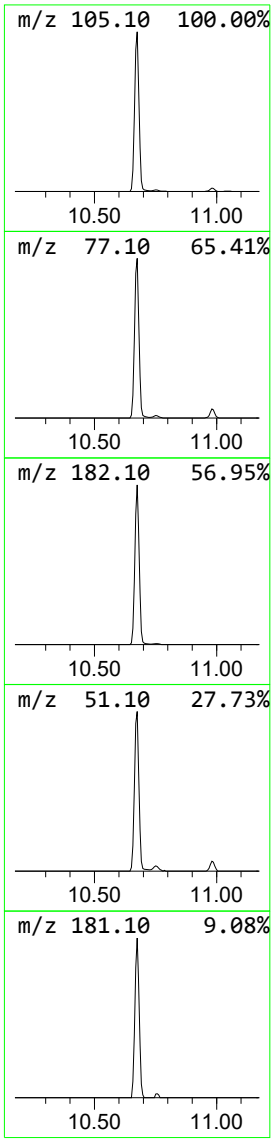
****

Peak Number 3 Benzophenone Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.674	8.99 ng	414067	Acenaphthene-d10	9.963

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	Azobenzene	182	C12H10N2	000103-33-3	59
3	Acetophenone, 2-chloro-	154	C8H7ClO	000532-27-4	49
4	Benzenebutanoic acid, .gamma.-oxo-	178	C10H10O3	002051-95-8	47
5	Pentafluoroethyl phenyl ketone	224	C9H5F5O	000394-52-5	47





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
Data File : BF143533.D
Acq On : 21 Aug 2025 16:38
Operator : RC/JU
Sample : Q2819-01
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
22BP-N

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

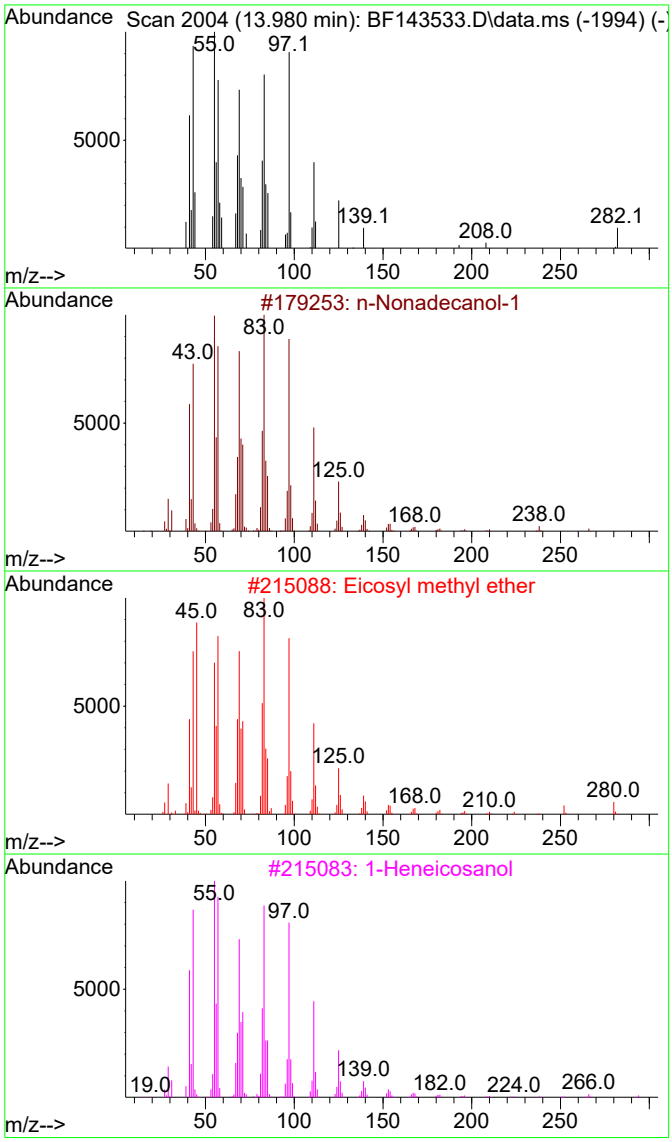
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

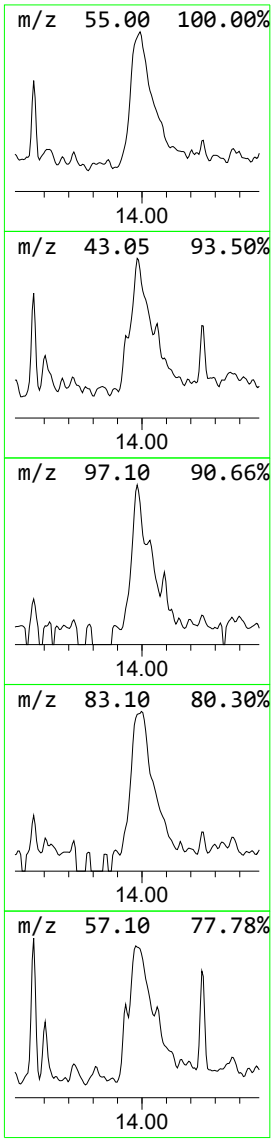
****

Peak Number 4 n-Nonadecanol-1 Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.980	2.14 ng	73280	Chrysene-d12	14.092

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Nonadecanol-1	284	C19H40O	001454-84-8	90
2	Eicosyl methyl ether	312	C21H44O	1000406-29-4	87
3	1-Heneicosanol	312	C21H44O	015594-90-8	81
4	1-Octadecanol	270	C18H38O	000112-92-5	74
5	Behenic alcohol	326	C22H46O	000661-19-8	74





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
Data File : BF143533.D
Acq On : 21 Aug 2025 16:38
Operator : RC/JU
Sample : Q2819-01
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
22BP-N

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

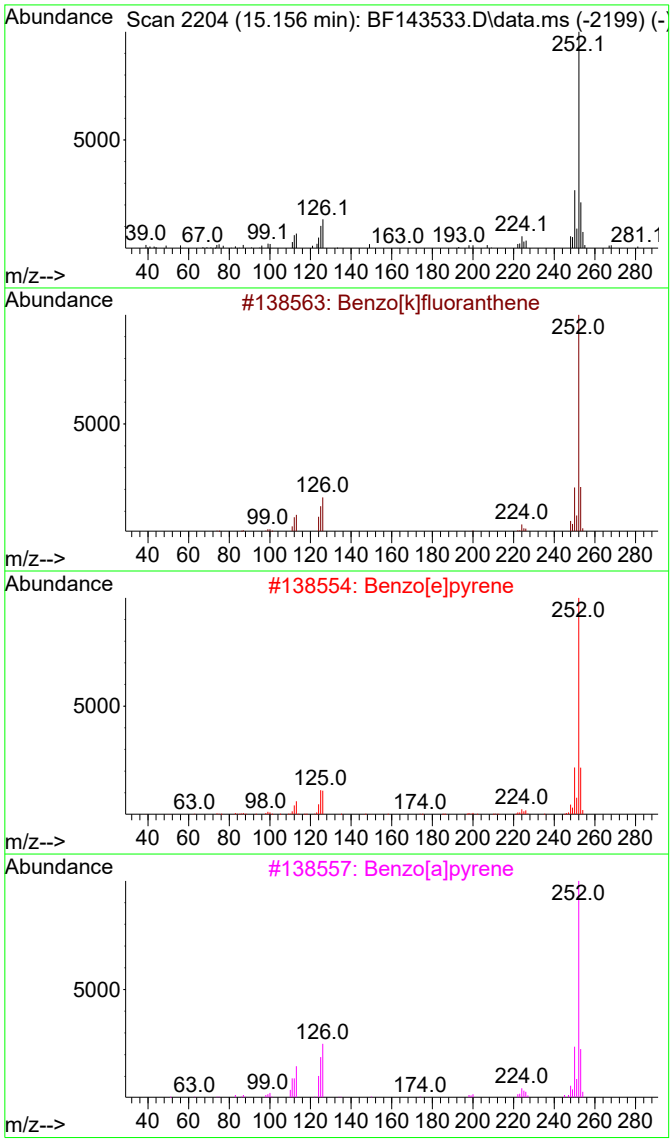
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

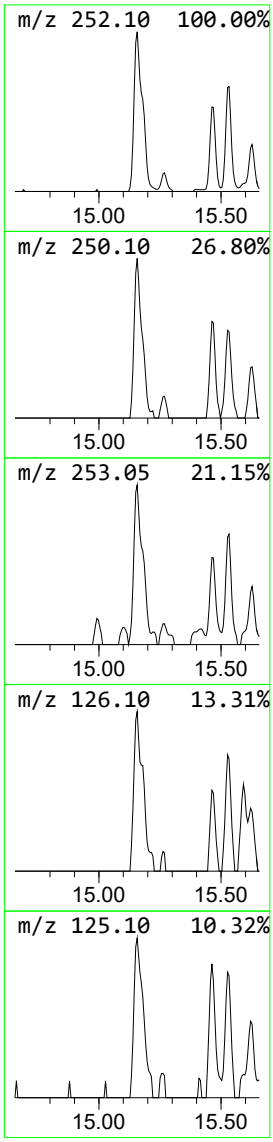
****

Peak Number 5 Benzo[e]pyrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.156	2.42 ng	84442	Perylene-d12	15.592

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[k]fluoranthene	252	C20H12	000207-08-9	95
2	Benzo[e]pyrene	252	C20H12	000192-97-2	94
3	Benzo[a]pyrene	252	C20H12	000050-32-8	94
4	Benzo[b]fluoranthene	252	C20H12	000205-99-2	93
5	Perylene	252	C20H12	000198-55-0	87





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
Data File : BF143533.D
Acq On : 21 Aug 2025 16:38
Operator : RC/JU
Sample : Q2819-01
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
22BP-N

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.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...	2.281	49.8	ng	1665290	1	6.928	668759	20.0
2-Pentanone, 4-...	5.169	10.7	ng	356788	1	6.928	668759	20.0
Benzophenone	10.674	9.0	ng	414067	3	9.963	920932	20.0
n-Nonadecanol-1	13.980	2.1	ng	73280	5	14.092	683369	20.0
Benzo[e]pyrene	15.156	2.4	ng	84442	6	15.592	696618	20.0

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/04/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	22BP-E	SDG No.:	Q2819
Lab Sample ID:	Q2819-02	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	85.7
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP025524.D	1	08/14/25 08:40	08/21/25 02:37	PB169242

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
100-52-7	Benzaldehyde	310	U	180	310	380	ug/Kg
108-95-2	Phenol	150	U	25.7	150	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	150	U	28.3	150	200	ug/Kg
95-57-8	2-Chlorophenol	150	U	28.4	150	200	ug/Kg
95-48-7	2-Methylphenol	150	U	34.8	150	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	150	U	43.6	150	200	ug/Kg
98-86-2	Acetophenone	150	U	34.3	150	200	ug/Kg
65794-96-9	3+4-Methylphenols	310	U	47.8	310	380	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	93.1	U	55.1	93.1	93.1	ug/Kg
67-72-1	Hexachloroethane	150	U	20.5	150	200	ug/Kg
98-95-3	Nitrobenzene	150	U	21.3	150	200	ug/Kg
78-59-1	Isophorone	150	U	38.2	150	200	ug/Kg
88-75-5	2-Nitrophenol	150	U	67.7	150	200	ug/Kg
105-67-9	2,4-Dimethylphenol	150	U	75.4	150	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	150	U	35.8	150	200	ug/Kg
120-83-2	2,4-Dichlorophenol	150	U	32.9	150	200	ug/Kg
91-20-3	Naphthalene	150	U	26.4	150	200	ug/Kg
106-47-8	4-Chloroaniline	150	U	41.2	150	200	ug/Kg
87-68-3	Hexachlorobutadiene	150	U	29.4	150	200	ug/Kg
105-60-2	Caprolactam	310	U	60.6	310	380	ug/Kg
59-50-7	4-Chloro-3-methylphenol	150	U	33.4	150	200	ug/Kg
91-57-6	2-Methylnaphthalene	150	U	29.8	150	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	310	U	130	310	380	ug/Kg
88-06-2	2,4,6-Trichlorophenol	150	U	23.0	150	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	150	U	33.9	150	200	ug/Kg
92-52-4	1,1-Biphenyl	150	U	25.4	150	200	ug/Kg
91-58-7	2-Chloronaphthalene	150	U	26.2	150	200	ug/Kg
88-74-4	2-Nitroaniline	150	U	56.0	150	200	ug/Kg
131-11-3	Dimethylphthalate	150	U	31.5	150	200	ug/Kg

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Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/04/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	22BP-E	SDG No.:	Q2819
Lab Sample ID:	Q2819-02	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	85.7
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP025524.D	1	08/14/25 08:40	08/21/25 02:37	PB169242

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	150	U	33.6	150	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	150	U	39.1	150	200	ug/Kg
99-09-2	3-Nitroaniline	150	U	53.5	150	200	ug/Kg
83-32-9	Acenaphthene	150	U	24.8	150	200	ug/Kg
51-28-5	2,4-Dinitrophenol	310	U	270	310	380	ug/Kg
100-02-7	4-Nitrophenol	310	U	120	310	380	ug/Kg
132-64-9	Dibenzofuran	150	U	26.4	150	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	150	U	58.3	150	200	ug/Kg
84-66-2	Diethylphthalate	150	U	32.9	150	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	150	U	31.1	150	200	ug/Kg
86-73-7	Fluorene	150	U	29.4	150	200	ug/Kg
100-01-6	4-Nitroaniline	150	U	74.7	150	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	310	U	120	310	380	ug/Kg
86-30-6	n-Nitrosodiphenylamine	150	U	38.3	150	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	150	U	32.3	150	200	ug/Kg
118-74-1	Hexachlorobenzene	150	U	29.4	150	200	ug/Kg
1912-24-9	Atrazine	150	U	39.6	150	200	ug/Kg
87-86-5	Pentachlorophenol	310	U	59.7	310	380	ug/Kg
85-01-8	Phenanthrene	150	U	24.3	150	200	ug/Kg
120-12-7	Anthracene	150	U	38.7	150	200	ug/Kg
86-74-8	Carbazole	150	U	36.3	150	200	ug/Kg
84-74-2	Di-n-butylphthalate	150	U	55.7	150	200	ug/Kg
206-44-0	Fluoranthene	150	U	34.9	150	200	ug/Kg
129-00-0	Pyrene	150	U	41.9	150	200	ug/Kg
85-68-7	Butylbenzylphthalate	150	U	83.1	150	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	310	U	42.7	310	380	ug/Kg
56-55-3	Benzo(a)anthracene	150	U	26.8	150	200	ug/Kg
218-01-9	Chrysene	150	U	23.2	150	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	150	U	68.9	150	200	ug/Kg
117-84-0	Di-n-octyl phthalate	310	U	100	310	380	ug/Kg
205-99-2	Benzo(b)fluoranthene	150	U	22.1	150	200	ug/Kg

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Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/04/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	22BP-E	SDG No.:	Q2819
Lab Sample ID:	Q2819-02	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	85.7
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP025524.D	1	08/14/25 08:40	08/21/25 02:37	PB169242

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	150	U	26.1	150	200	ug/Kg
50-32-8	Benzo(a)pyrene	150	U	34.3	150	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	150	U	33.9	150	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	150	U	31.9	150	200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	150	U	29.9	150	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	150	U	29.8	150	200	ug/Kg
123-91-1	1,4-Dioxane	150	UQ	52.6	150	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	150	U	31.9	150	200	ug/Kg
SURROGATES							
367-12-4	2-Fluorophenol	82.1		35 - 115		55%	SPK: 150
13127-88-3	Phenol-d6	83.1		34 - 127		55%	SPK: 150
4165-60-0	Nitrobenzene-d5	55.6		37 - 122		56%	SPK: 100
321-60-8	2-Fluorobiphenyl	53.7		44 - 115		54%	SPK: 100
118-79-6	2,4,6-Tribromophenol	84.1		39 - 132		56%	SPK: 150
1718-51-0	Terphenyl-d14	51.6	*	54 - 127		52%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	188000	7.784				
1146-65-2	Naphthalene-d8	720000	10.554				
15067-26-2	Acenaphthene-d10	434000	14.401				
1517-22-2	Phenanthrene-d10	813000	17.183				
1719-03-5	Chrysene-d12	805000	21.624				
1520-96-3	Perylene-d12	976000	24.983				
TENTATIVE IDENTIFIED COMPOUNDS							
000994-05-8	Butane, 2-methoxy-2-methyl-	1400	J			3.04	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	210	AB			4.95	ug/Kg
000119-61-9	Benzophenone	390	J			15.8	ug/Kg
000057-10-3	n-Hexadecanoic acid	230	J			18.1	ug/Kg
959010-23-2	Trifluoroacetic acid, pentadecyl e	230	J			21.3	ug/Kg

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Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/04/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	22BP-E	SDG No.:	Q2819
Lab Sample ID:	Q2819-02	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	85.7
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP025524.D	1	08/14/25 08:40	08/21/25 02:37	PB169242

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

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

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025524.D
Acq On : 21 Aug 2025 02:37
Operator : CG/JU
Sample : Q2819-02
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
22BP-E

Quant Time: Aug 21 03:07:25 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration

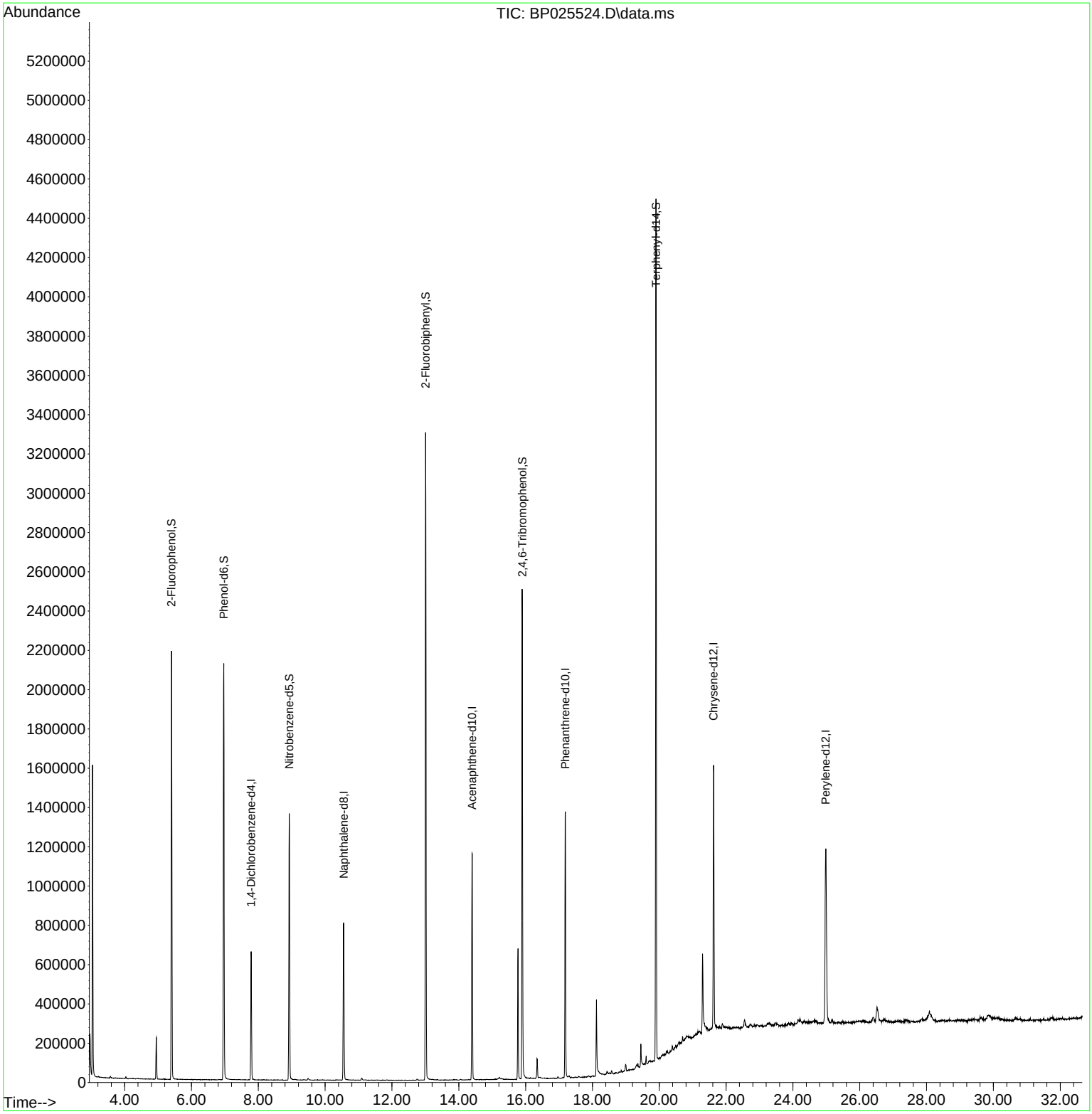
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.784	152	187825	20.000	ng	-0.01
21) Naphthalene-d8	10.554	136	720442	20.000	ng	0.00
39) Acenaphthene-d10	14.401	164	433642	20.000	ng	0.00
64) Phenanthrene-d10	17.183	188	813225	20.000	ng	-0.02
76) Chrysene-d12	21.624	240	805252	20.000	ng	-0.02
86) Perylene-d12	24.983	264	975515	20.000	ng	-0.05
System Monitoring Compounds						
5) 2-Fluorophenol	5.402	112	928905	82.131	ng	0.00
7) Phenol-d6	6.966	99	1204823	83.089	ng	0.00
23) Nitrobenzene-d5	8.925	82	791373	55.566	ng	-0.01
42) 2,4,6-Tribromophenol	15.901	330	490950	84.112	ng	-0.01
45) 2-Fluorobiphenyl	13.007	172	1704930	53.733	ng	-0.01
79) Terphenyl-d14	19.901	244	2269990	51.575	ng	-0.02
Target Compounds						Qvalue

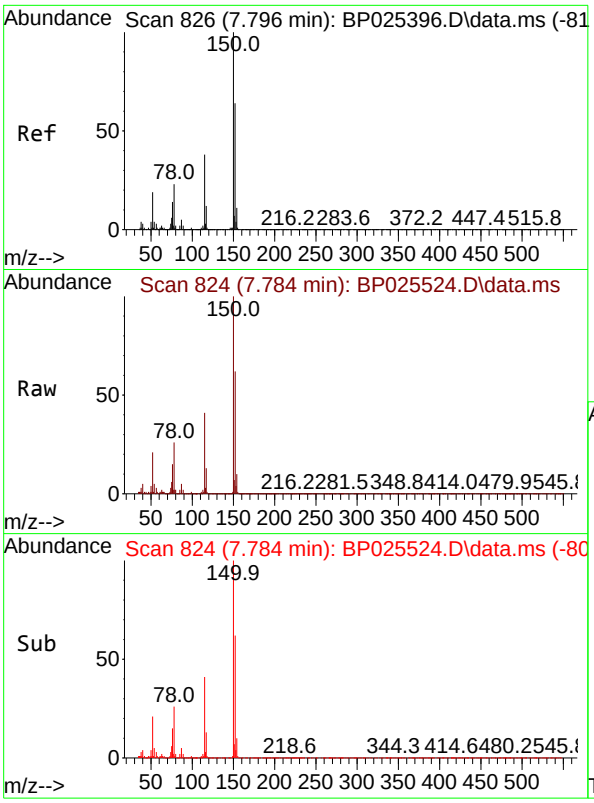
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025524.D
Acq On : 21 Aug 2025 02:37
Operator : CG/JU
Sample : Q2819-02
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
22BP-E

Quant Time: Aug 21 03:07:25 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration



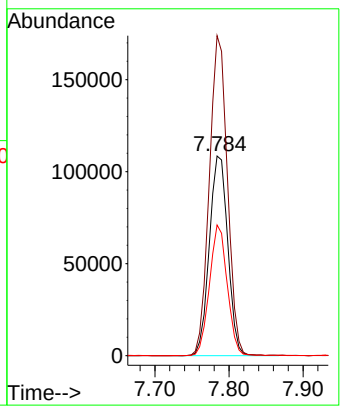


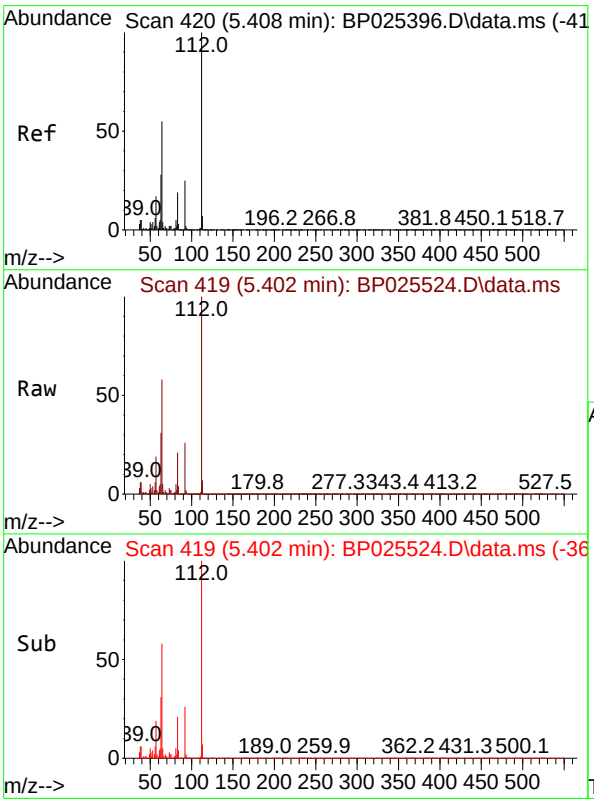
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.784 min Scan# 8
Delta R.T. -0.012 min
Lab File: BP025524.D
Acq: 21 Aug 2025 02:37

Instrument :
BNA_P
ClientSampleId :
22BP-E

Tgt Ion:152 Resp: 187825

Ion	Ratio	Lower	Upper
152	100		
150	160.2	125.9	188.9
115	65.5	48.5	72.7

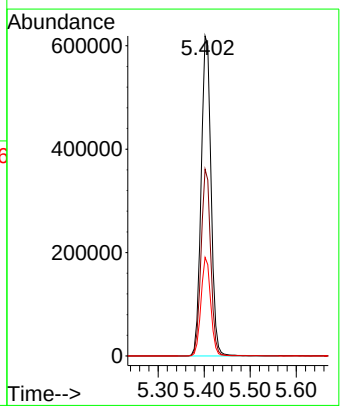


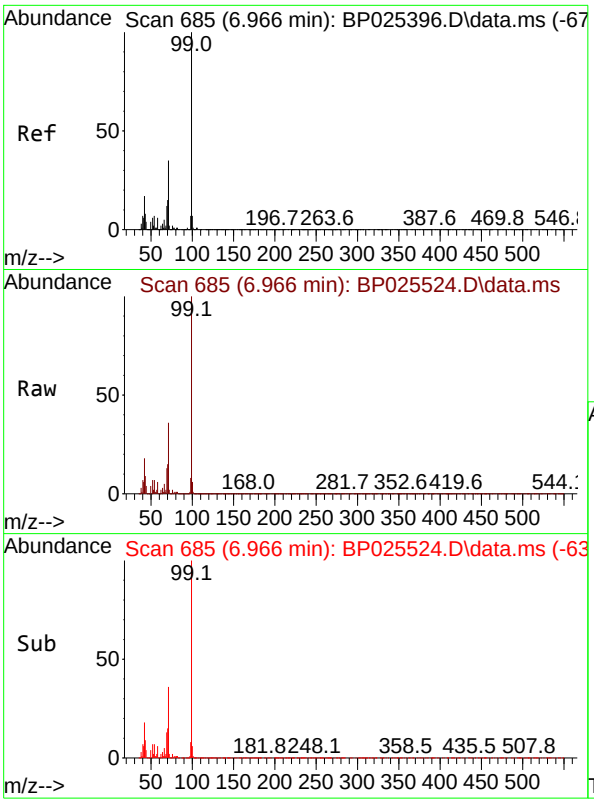


#5
2-Fluorophenol
Concen: 82.131 ng
RT: 5.402 min Scan# 419
Delta R.T. -0.006 min
Lab File: BP025524.D
Acq: 21 Aug 2025 02:37

Tgt Ion:112 Resp: 928905

Ion	Ratio	Lower	Upper
112	100		
64	58.3	43.8	65.8
63	30.8	22.7	34.1



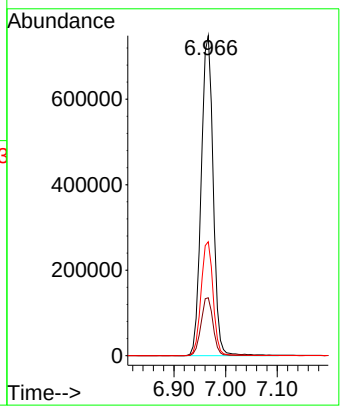


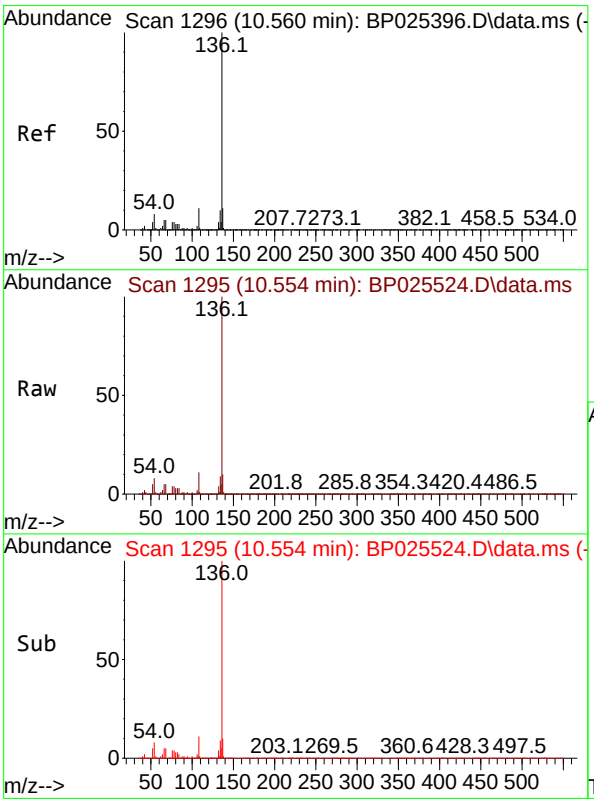
#7
Phenol-d6
Concen: 83.089 ng
RT: 6.966 min Scan# 6
Delta R.T. 0.000 min
Lab File: BP025524.D
Acq: 21 Aug 2025 02:37

Instrument :
BNA_P
ClientSampleId :
22BP-E

Tgt Ion: 99 Resp: 1204823

Ion	Ratio	Lower	Upper
99	100		
42	18.1	13.7	20.5
71	35.6	28.2	42.4

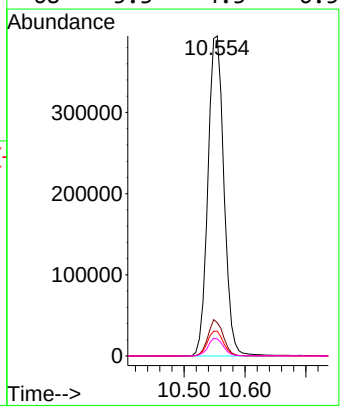


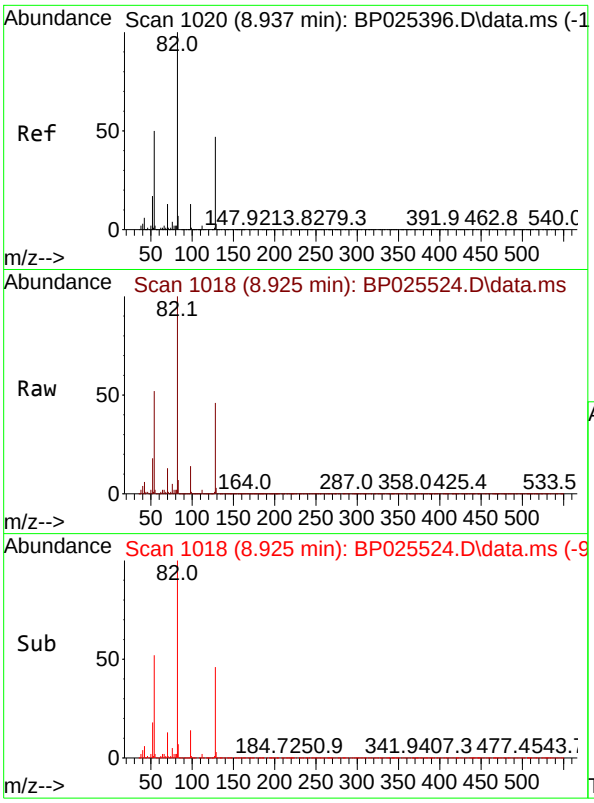


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.554 min Scan# 1295
Delta R.T. -0.006 min
Lab File: BP025524.D
Acq: 21 Aug 2025 02:37

Tgt Ion:136 Resp: 720442

Ion	Ratio	Lower	Upper
136	100		
137	10.4	9.2	13.8
54	7.8	6.0	9.0
68	5.3	4.3	6.5



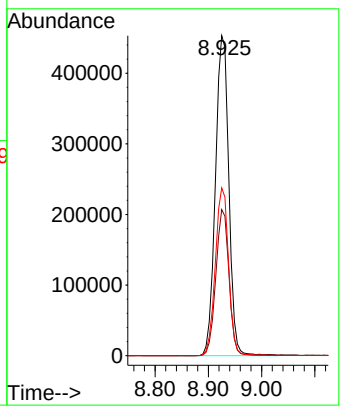


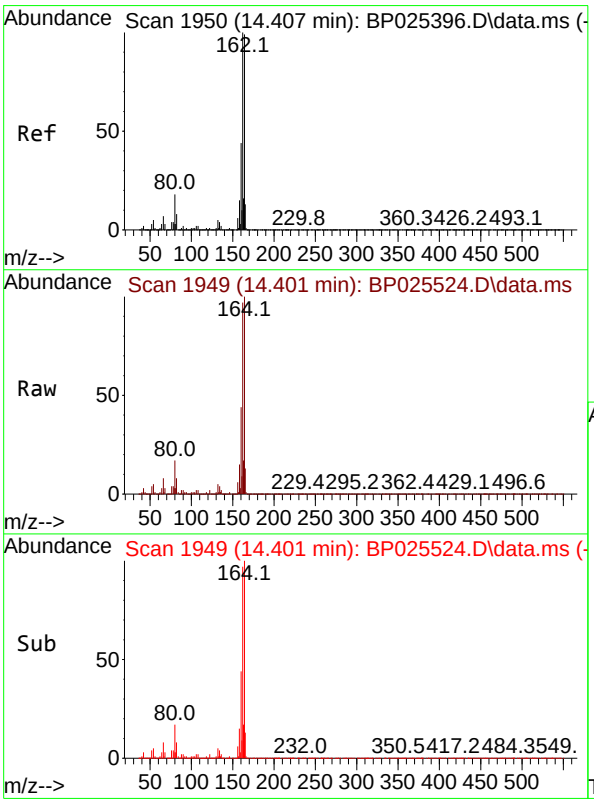
#23
Nitrobenzene-d5
Concen: 55.566 ng
RT: 8.925 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP025524.D
Acq: 21 Aug 2025 02:37

Instrument :
BNA_P
ClientSampleId :
22BP-E

Tgt Ion: 82 Resp: 791373

Ion	Ratio	Lower	Upper
82	100		
128	45.6	37.7	56.5
54	52.4	39.8	59.6

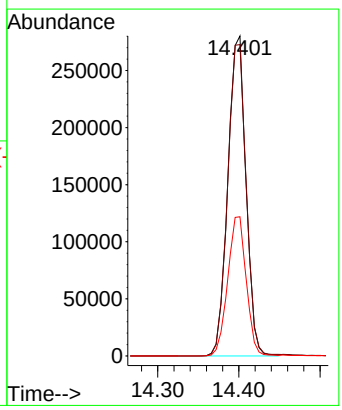


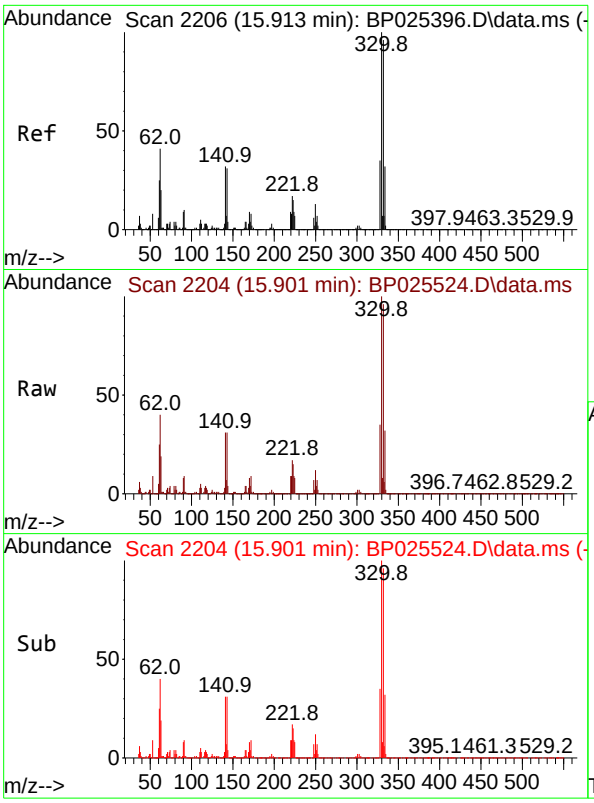


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.401 min Scan# 1949
Delta R.T. -0.006 min
Lab File: BP025524.D
Acq: 21 Aug 2025 02:37

Tgt Ion:164 Resp: 433642

Ion	Ratio	Lower	Upper
164	100		
162	97.3	81.0	121.6
160	43.5	35.4	53.2



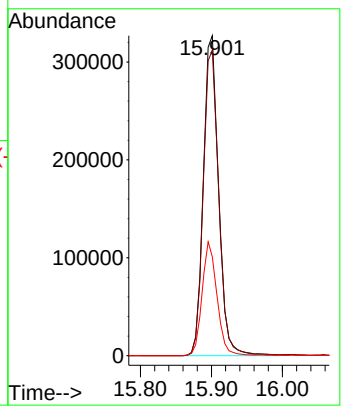


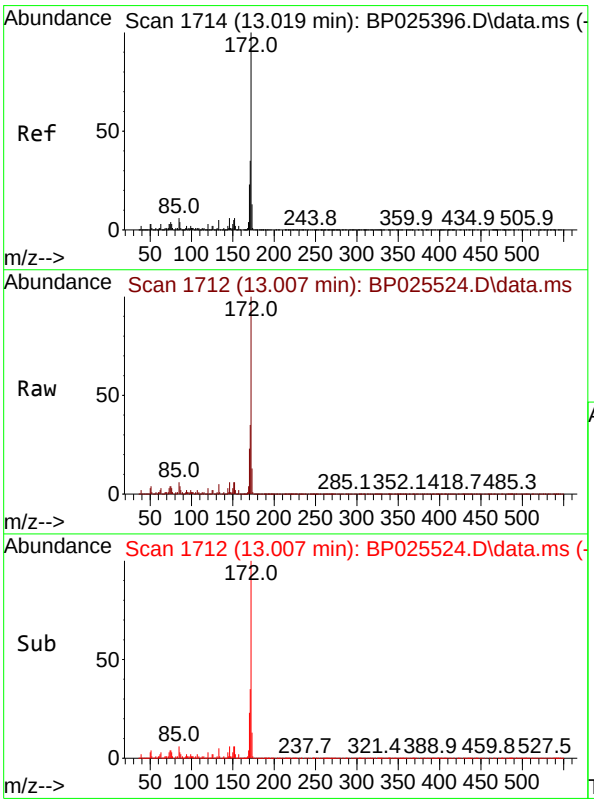
#42
2,4,6-Tribromophenol
Concen: 84.112 ng
RT: 15.901 min Scan# 2
Delta R.T. -0.012 min
Lab File: BP025524.D
Acq: 21 Aug 2025 02:37

Instrument :
BNA_P
ClientSampleId :
22BP-E

Tgt Ion:330 Resp: 490950

Ion	Ratio	Lower	Upper
330	100		
332	96.6	77.3	115.9
141	34.6	26.6	39.8

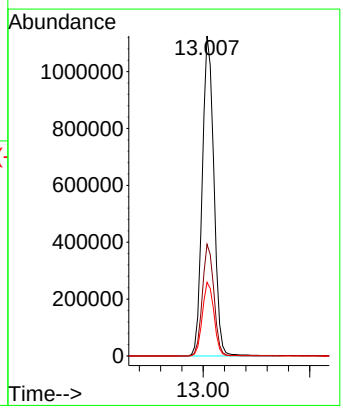


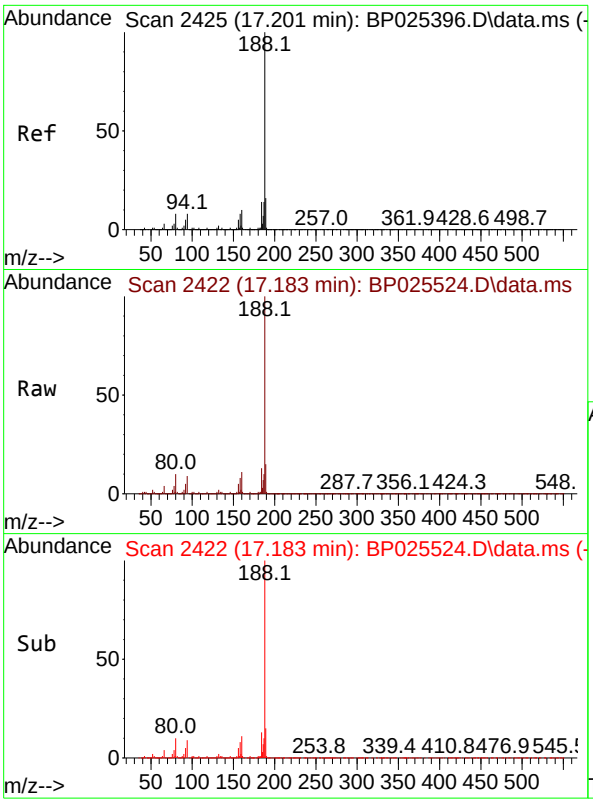


#45
2-Fluorobiphenyl
Concen: 53.733 ng
RT: 13.007 min Scan# 1712
Delta R.T. -0.012 min
Lab File: BP025524.D
Acq: 21 Aug 2025 02:37

Tgt Ion:172 Resp: 1704930

Ion	Ratio	Lower	Upper
172	100		
171	34.9	28.1	42.1
170	23.0	18.6	28.0



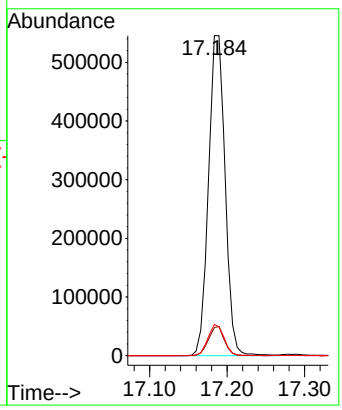


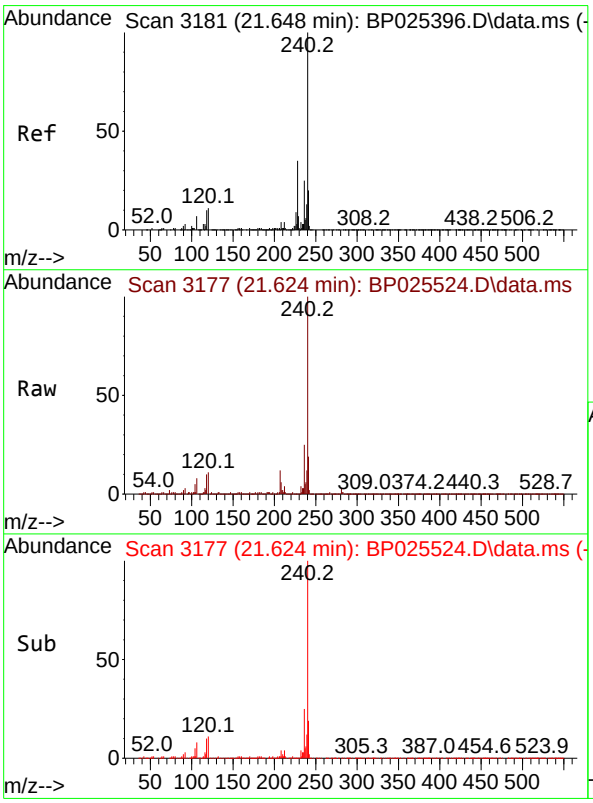
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.183 min Scan# 24
Delta R.T. -0.018 min
Lab File: BP025524.D
Acq: 21 Aug 2025 02:37

Instrument :
BNA_P
ClientSampleId :
22BP-E

Tgt Ion:188 Resp: 813225

Ion	Ratio	Lower	Upper
188	100		
94	8.8	6.6	10.0
80	9.8	6.7	10.1

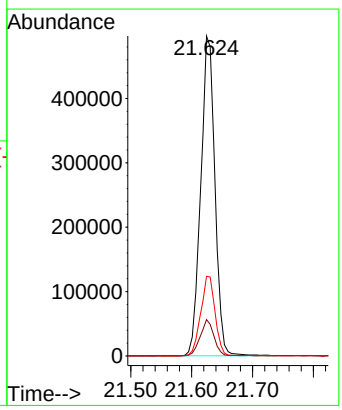


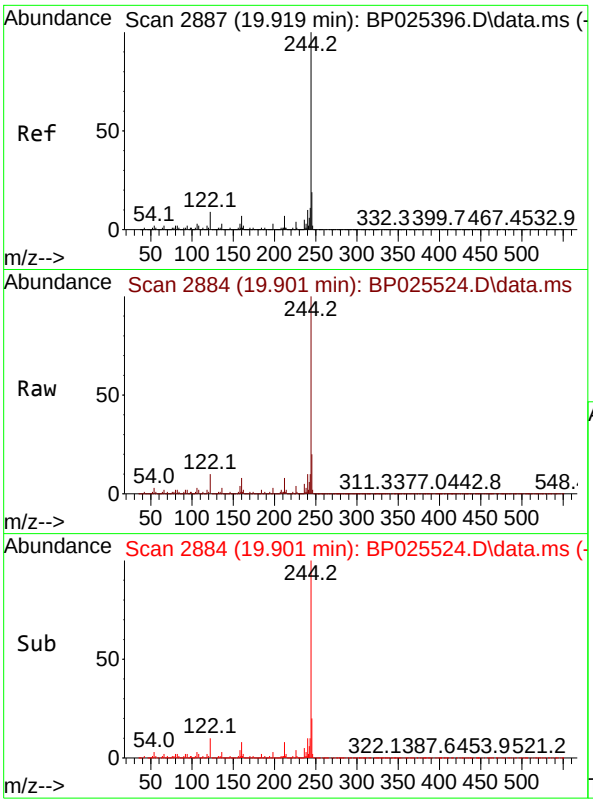


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.624 min Scan# 3177
Delta R.T. -0.023 min
Lab File: BP025524.D
Acq: 21 Aug 2025 02:37

Tgt Ion:240 Resp: 805252

Ion	Ratio	Lower	Upper
240	100		
120	11.3	8.9	13.3
236	24.9	19.8	29.8



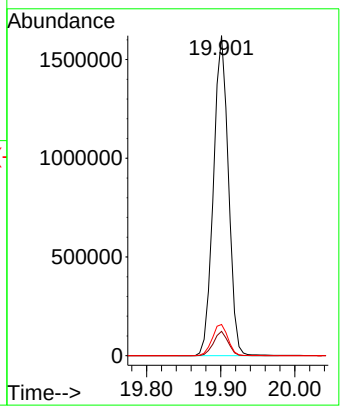


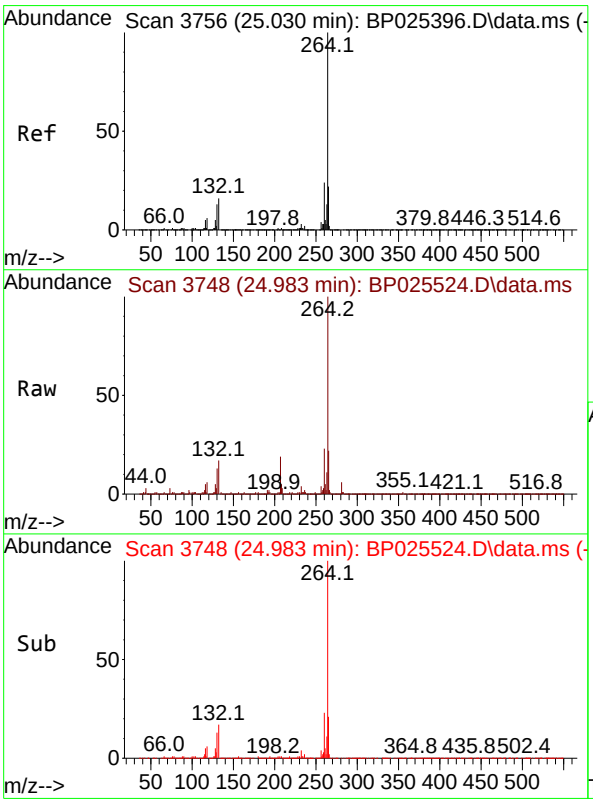
#79
Terphenyl-d14
Concen: 51.575 ng
RT: 19.901 min Scan# 2
Delta R.T. -0.018 min
Lab File: BP025524.D
Acq: 21 Aug 2025 02:37

Instrument :
BNA_P
ClientSampleId :
22BP-E

Tgt Ion:244 Resp: 2269990

Ion	Ratio	Lower	Upper
244	100		
212	7.6	5.8	8.6
122	9.8	7.4	11.2

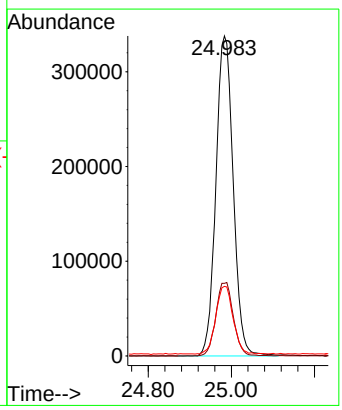




#86
Perylene-d12
Concen: 20.000 ng
RT: 24.983 min Scan# 3748
Delta R.T. -0.047 min
Lab File: BP025524.D
Acq: 21 Aug 2025 02:37

Tgt Ion:264 Resp: 975515

Ion	Ratio	Lower	Upper
264	100		
260	22.7	19.3	28.9
265	21.8	17.4	26.0



Sample Results: **BP025524.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025524.D
Acq On : 21 Aug 2025 02:37
Operator : CG/JU
Sample : Q2819-02
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
22BP-E

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

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

Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BP025524.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.037	13	17	37	rVB	1587856	1966175	31.80%	4.924%
2	4.949	336	342	351	rVB	211375	306999	4.96%	0.769%
3	5.402	412	419	430	rBV	2182573	3224280	52.14%	8.075%
4	6.966	676	685	701	rBV	2119904	3454479	55.86%	8.651%
5	7.784	816	824	833	rBV	653887	1111116	17.97%	2.783%
6	8.925	1007	1018	1031	rBV	1358090	2361330	38.19%	5.913%
7	10.549	1285	1294	1308	rBV	800554	1471165	23.79%	3.684%
8	13.007	1704	1712	1733	rBV	3297909	4983529	80.59%	12.480%
9	14.395	1941	1948	1957	rBV	1153395	1832527	29.63%	4.589%
10	15.772	2175	2182	2190	rBV	666859	912205	14.75%	2.284%
11	15.895	2197	2203	2222	rBV	2493268	3789073	61.28%	9.489%
12	16.342	2271	2279	2286	rBV	100314	163164	2.64%	0.409%
13	17.189	2416	2423	2435	rBV2	1354487	2034334	32.90%	5.095%
14	18.119	2575	2581	2591	rBV	387981	607721	9.83%	1.522%
15	19.448	2803	2807	2820	rBV2	114273	208717	3.38%	0.523%
16	19.901	2878	2884	2891	rBV	4387064	6183662	100.00%	15.486%
17	21.295	3117	3121	3130	rBV	386416	657276	10.63%	1.646%
18	21.624	3171	3177	3187	rBV	1335264	2189583	35.41%	5.483%
19	24.983	3740	3748	3760	rVB2	871026	2474205	40.01%	6.196%

Sum of corrected areas: 39931540

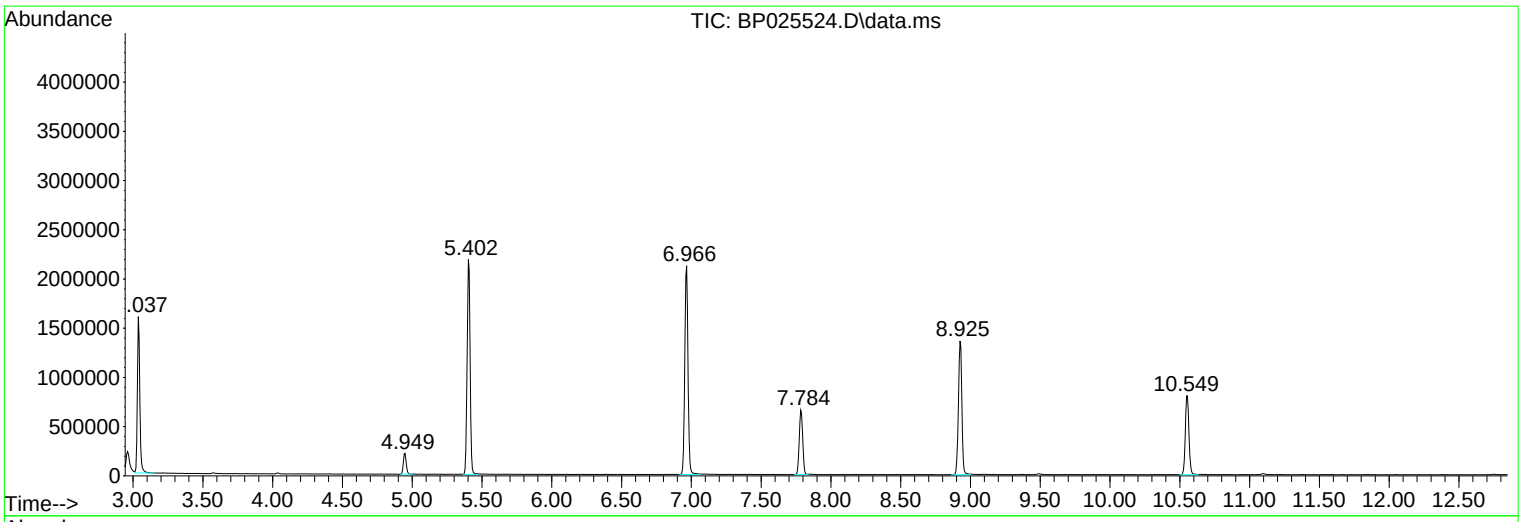
Sample Results: **BP025524.D**

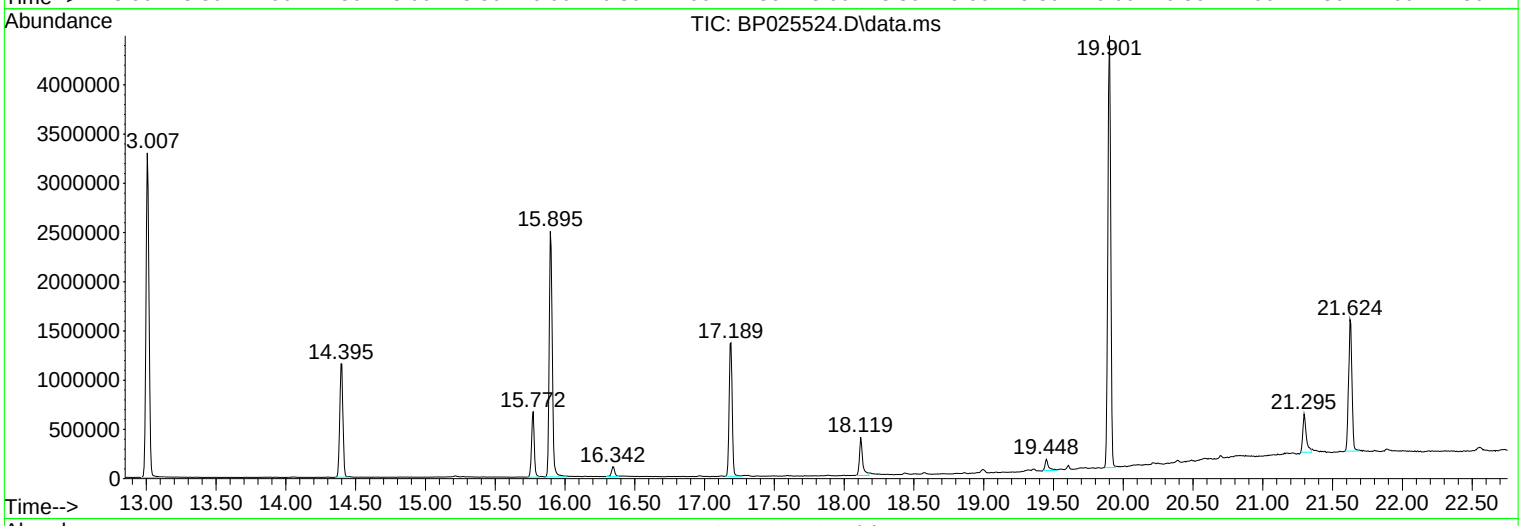
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025524.D
Acq On : 21 Aug 2025 02:37
Operator : CG/JU
Sample : Q2819-02
Misc :
ALS Vial : 14 Sample Multiplier: 1

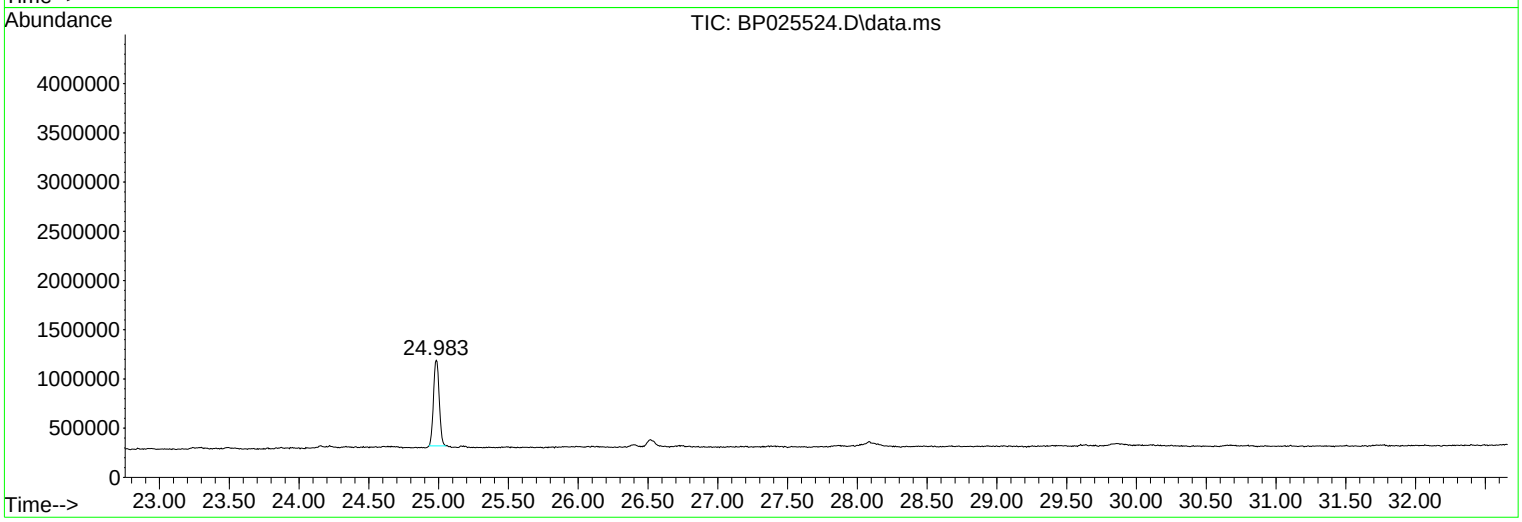
Instrument :
BNA_P
ClientSampleId :
22BP-E

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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







Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025524.D
Acq On : 21 Aug 2025 02:37
Operator : CG/JU
Sample : Q2819-02
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
22BP-E

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

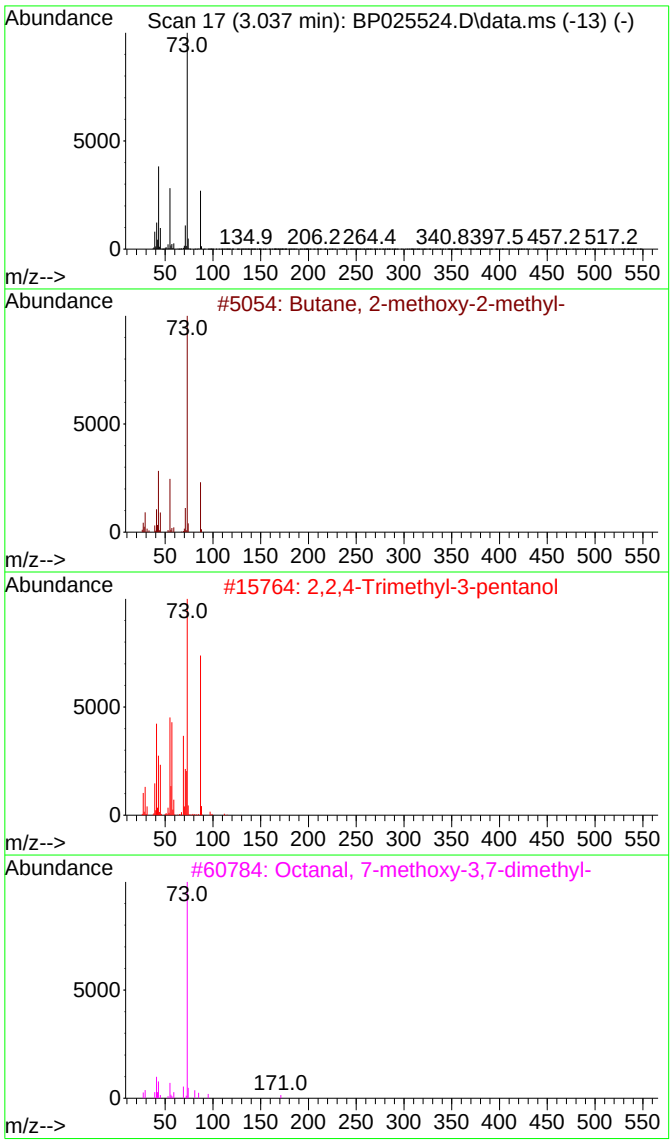
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

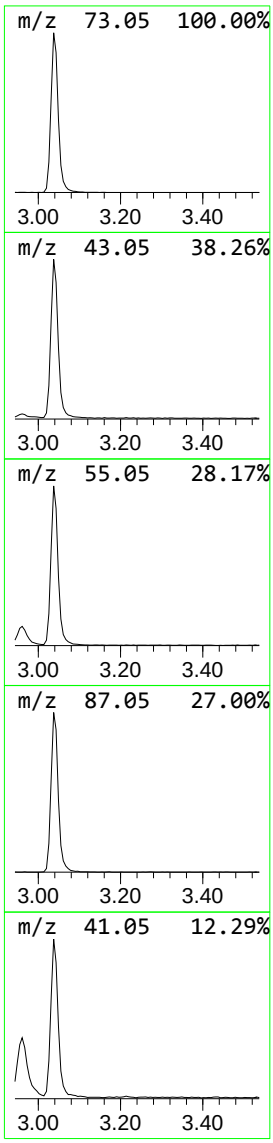
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.037	35.39 ng	1966180	1,4-Dichlorobenzene-d4	7.784

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	Octanal, 7-methoxy-3,7-dimethyl-	186	C11H22O2	003613-30-7	17
4	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	12
5	Silane, tetramethyl-	88	C4H12Si	000075-76-3	10





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Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025524.D
Acq On    : 21 Aug 2025  02:37
Operator  : CG/JU
Sample    : Q2819-02
Misc      :
ALS Vial  : 14   Sample Multiplier: 1

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

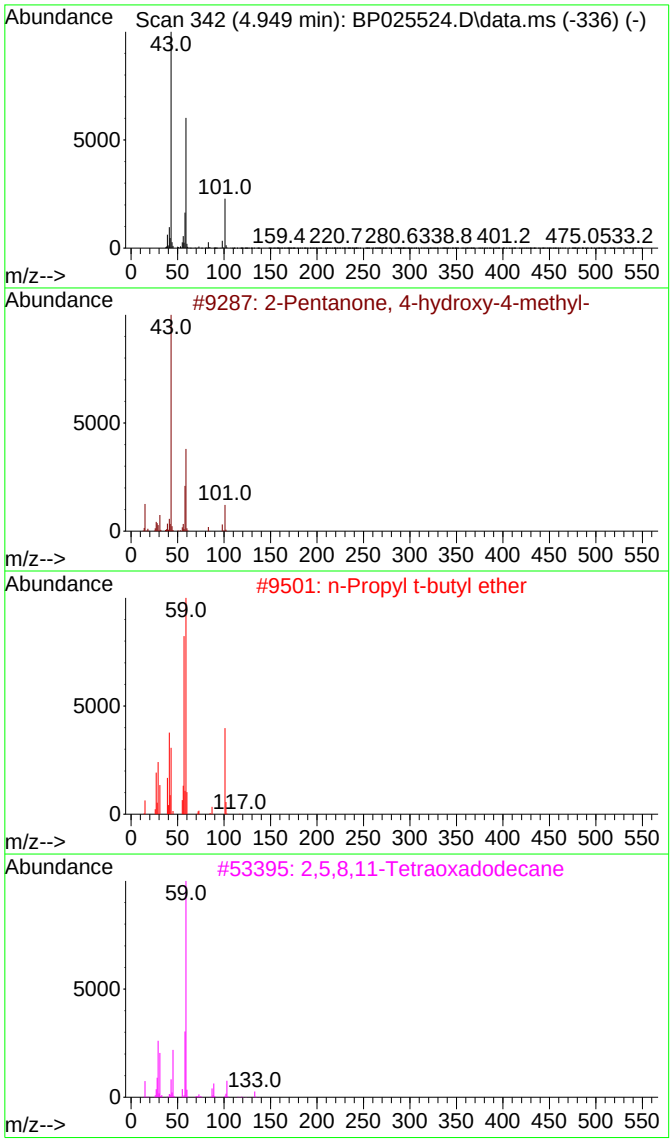
Instrument :
BNA_P
ClientSampleId :
22BP-E

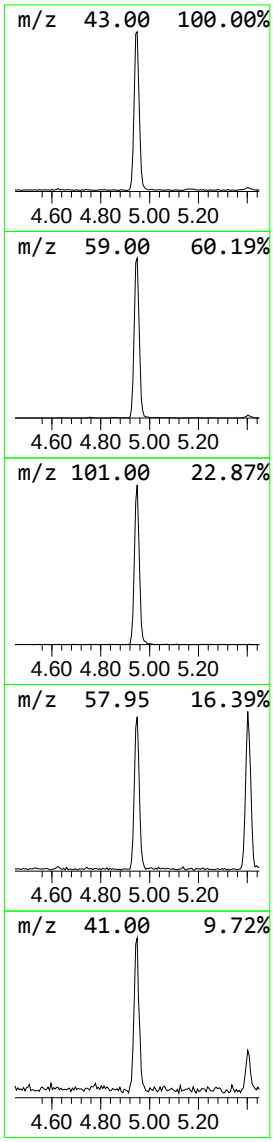
****

Peak Number 2 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.949	5.53 ng	306999	1,4-Dichlorobenzene-d4	7.784

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	50
2	n-Propyl t-butyl ether	116	C7H16O	1000334-81-9	33
3	2,5,8,11-Tetraoxadodecane	178	C8H18O4	000112-49-2	17
4	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	17
5	1,2-Butanediol	90	C4H10O2	000584-03-2	17





Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025524.D
Acq On : 21 Aug 2025 02:37
Operator : CG/JU
Sample : Q2819-02
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
22BP-E

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

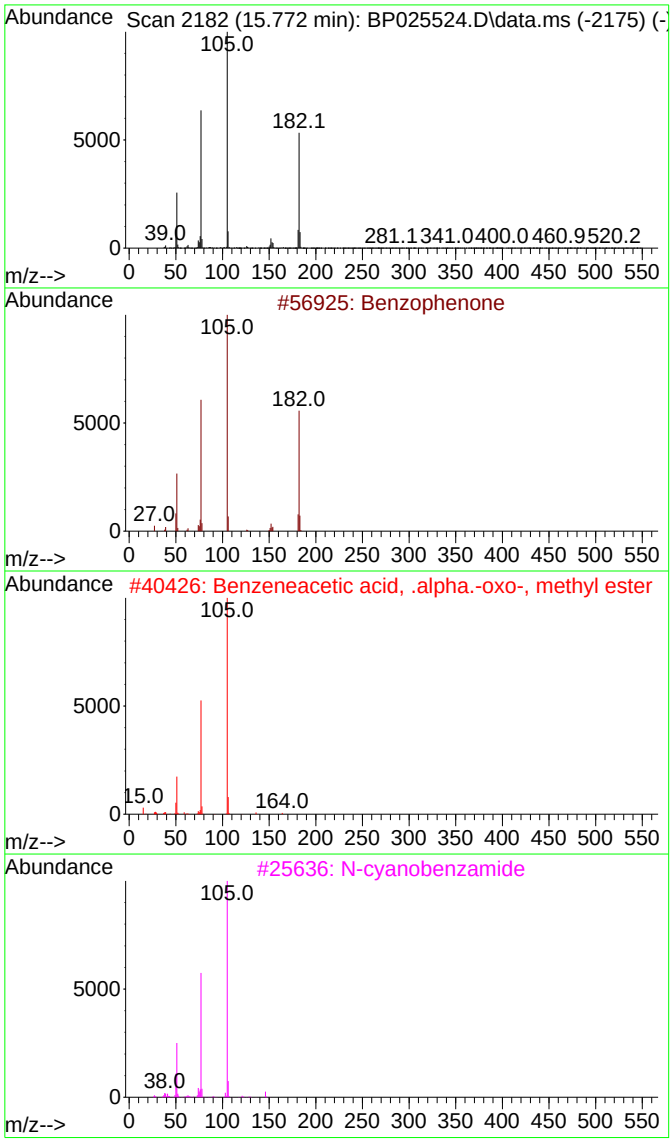
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

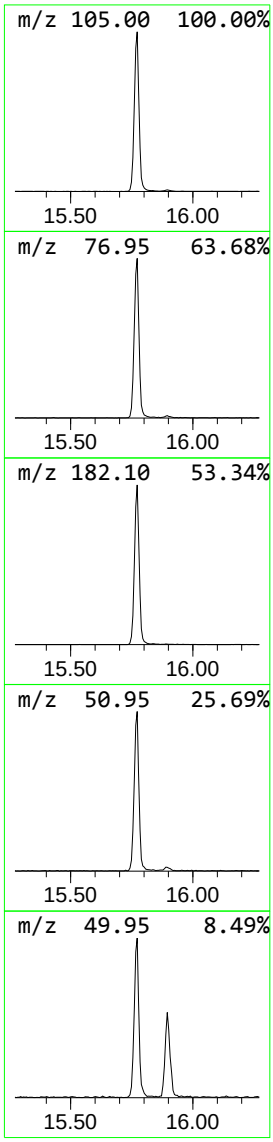
****

Peak Number 3 Benzophenone Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.772	9.96 ng	912205	Acenaphthene-d10	14.401

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	Benzeneacetic acid, .alpha.-oxo-...	164	C9H8O3	015206-55-0	49
3	N-cyanobenzamide	146	C8H6N2O	015150-25-1	47
4	acetic acid, 2-bromo-, 2-oxo-2-p...	256	C10H9BrO3	1000401-50-0	47
5	Vinyl benzoate	148	C9H8O2	000769-78-8	47





Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025524.D
Acq On : 21 Aug 2025 02:37
Operator : CG/JU
Sample : Q2819-02
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
22BP-E

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

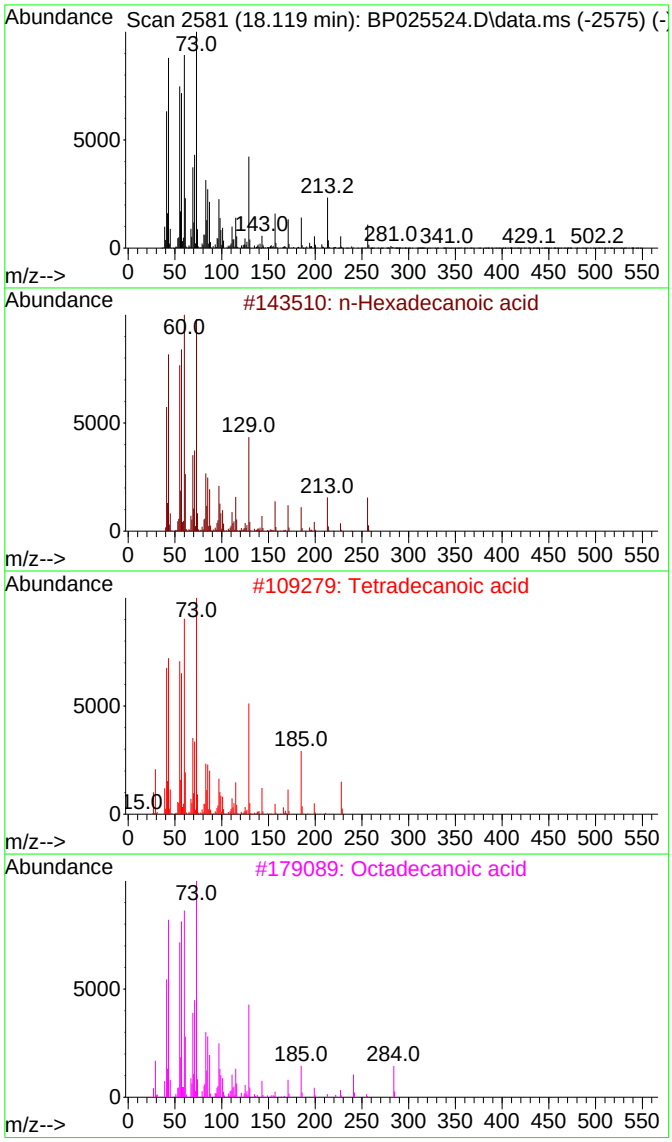
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

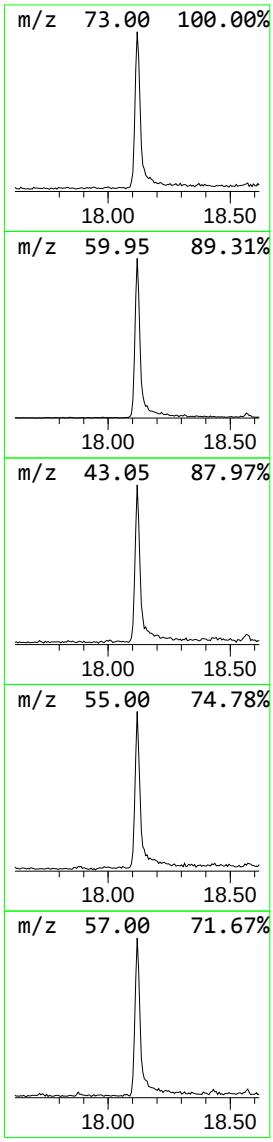
****

Peak Number 4 n-Hexadecanoic acid Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.119	5.97 ng	607721	Phenanthrene-d10	17.183

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	91
3	Octadecanoic acid	284	C18H36O2	000057-11-4	90
4	Pentadecanoic acid	242	C15H30O2	001002-84-2	81
5	Tridecanoic acid	214	C13H26O2	000638-53-9	74





Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025524.D
Acq On : 21 Aug 2025 02:37
Operator : CG/JU
Sample : Q2819-02
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
22BP-E

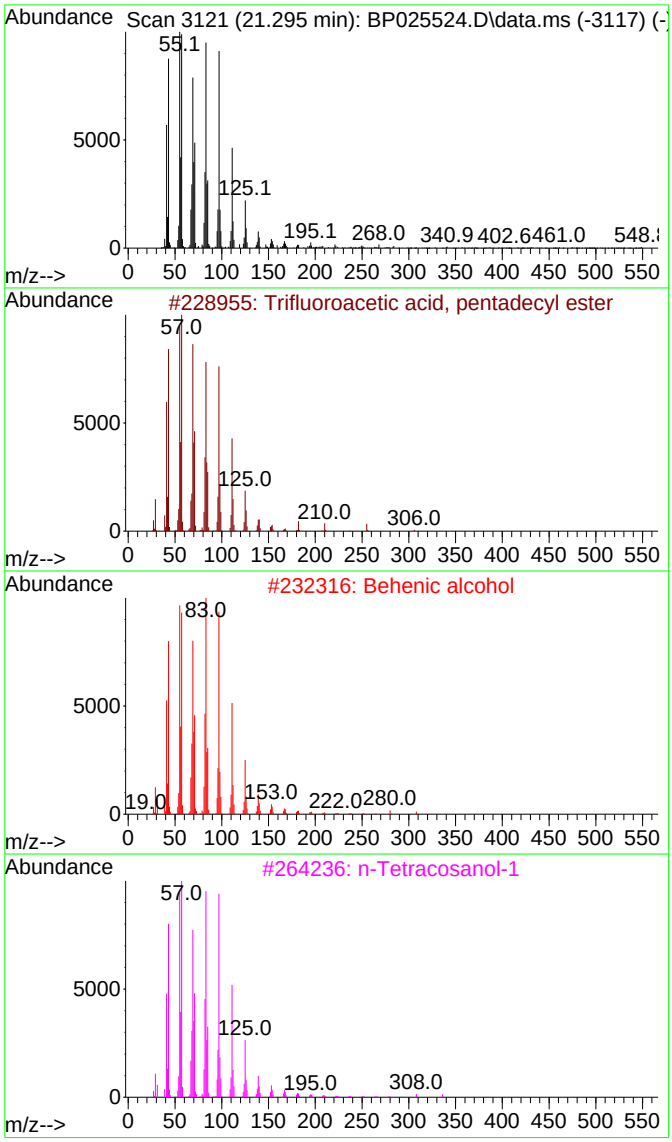
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

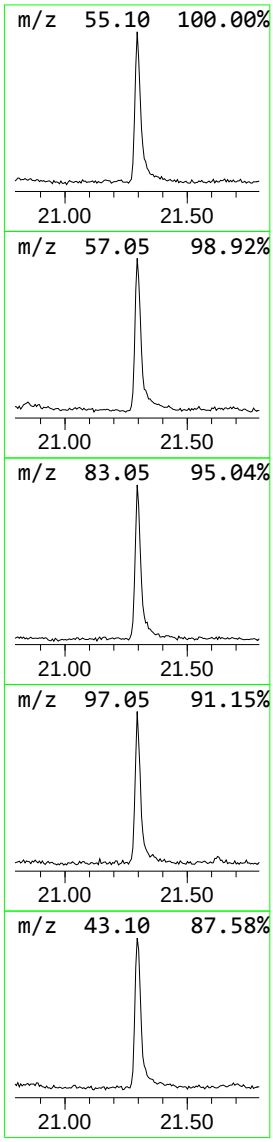
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 5 Trifluoroacetic acid, penta... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.295	6.00 ng	657276	Chrysene-d12	21.624

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Trifluoroacetic acid, pentadecyl...	324	C17H31F3O2	959010-23-2	94
2	Behenic alcohol	326	C22H46O	000661-19-8	94
3	n-Tetracosanol-1	354	C24H50O	000506-51-4	94
4	Heptafluorobutyric acid, pentade...	424	C19H31F7O2	959261-23-5	94
5	Heptacos-1-ene	378	C27H54	015306-27-1	94





Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025524.D
Acq On : 21 Aug 2025 02:37
Operator : CG/JU
Sample : Q2819-02
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
22BP-E

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.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...	3.037	35.4	ng	1966180	1	7.784	1111120	20.0
2-Pentanone, 4-...	4.949	5.5	ng	306999	1	7.784	1111120	20.0
Benzophenone	15.772	10.0	ng	912205	3	14.401	1832530	20.0
n-Hexadecanoic ...	18.119	6.0	ng	607721	4	17.183	2034330	20.0
Trifluoroacetic...	21.295	6.0	ng	657276	5	21.624	2189580	20.0

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/04/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	22BP-W	SDG No.:	Q2819
Lab Sample ID:	Q2819-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	85.8
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP025515.D	1	08/14/25 08:40	08/20/25 20:30	PB169242

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
100-52-7	Benzaldehyde	310	U	180	310	380	ug/Kg
108-95-2	Phenol	150	U	25.7	150	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	150	U	28.3	150	200	ug/Kg
95-57-8	2-Chlorophenol	150	U	28.4	150	200	ug/Kg
95-48-7	2-Methylphenol	150	U	34.8	150	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	150	U	43.7	150	200	ug/Kg
98-86-2	Acetophenone	150	U	34.4	150	200	ug/Kg
65794-96-9	3+4-Methylphenols	310	U	47.9	310	380	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	93.2	U	55.2	93.2	93.2	ug/Kg
67-72-1	Hexachloroethane	150	U	20.5	150	200	ug/Kg
98-95-3	Nitrobenzene	150	U	21.3	150	200	ug/Kg
78-59-1	Isophorone	150	U	38.2	150	200	ug/Kg
88-75-5	2-Nitrophenol	150	U	67.8	150	200	ug/Kg
105-67-9	2,4-Dimethylphenol	150	U	75.5	150	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	150	U	35.9	150	200	ug/Kg
120-83-2	2,4-Dichlorophenol	150	U	33.0	150	200	ug/Kg
91-20-3	Naphthalene	150	U	26.4	150	200	ug/Kg
106-47-8	4-Chloroaniline	150	U	41.2	150	200	ug/Kg
87-68-3	Hexachlorobutadiene	150	U	29.5	150	200	ug/Kg
105-60-2	Caprolactam	310	U	60.7	310	380	ug/Kg
59-50-7	4-Chloro-3-methylphenol	150	U	33.4	150	200	ug/Kg
91-57-6	2-Methylnaphthalene	150	U	29.8	150	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	310	U	140	310	380	ug/Kg
88-06-2	2,4,6-Trichlorophenol	150	U	23.1	150	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	150	U	33.9	150	200	ug/Kg
92-52-4	1,1-Biphenyl	150	U	25.4	150	200	ug/Kg
91-58-7	2-Chloronaphthalene	150	U	26.2	150	200	ug/Kg
88-74-4	2-Nitroaniline	150	U	56.0	150	200	ug/Kg
131-11-3	Dimethylphthalate	150	U	31.6	150	200	ug/Kg

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Fax : 908 789 8922

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/04/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	22BP-W	SDG No.:	Q2819
Lab Sample ID:	Q2819-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	85.8
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP025515.D	1	08/14/25 08:40	08/20/25 20:30	PB169242

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	150	U	33.7	150	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	150	U	39.1	150	200	ug/Kg
99-09-2	3-Nitroaniline	150	U	53.6	150	200	ug/Kg
83-32-9	Acenaphthene	150	U	24.8	150	200	ug/Kg
51-28-5	2,4-Dinitrophenol	310	U	270	310	380	ug/Kg
100-02-7	4-Nitrophenol	310	U	120	310	380	ug/Kg
132-64-9	Dibenzofuran	150	U	26.4	150	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	150	U	58.4	150	200	ug/Kg
84-66-2	Diethylphthalate	150	U	33.0	150	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	150	U	31.1	150	200	ug/Kg
86-73-7	Fluorene	150	U	29.5	150	200	ug/Kg
100-01-6	4-Nitroaniline	150	U	74.8	150	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	310	U	120	310	380	ug/Kg
86-30-6	n-Nitrosodiphenylamine	150	U	38.3	150	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	150	U	32.4	150	200	ug/Kg
118-74-1	Hexachlorobenzene	150	U	29.5	150	200	ug/Kg
1912-24-9	Atrazine	150	U	39.6	150	200	ug/Kg
87-86-5	Pentachlorophenol	310	U	59.8	310	380	ug/Kg
85-01-8	Phenanthrene	150	U	24.3	150	200	ug/Kg
120-12-7	Anthracene	150	U	38.8	150	200	ug/Kg
86-74-8	Carbazole	150	U	36.3	150	200	ug/Kg
84-74-2	Di-n-butylphthalate	150	U	55.8	150	200	ug/Kg
206-44-0	Fluoranthene	150	U	34.9	150	200	ug/Kg
129-00-0	Pyrene	150	U	41.9	150	200	ug/Kg
85-68-7	Butylbenzylphthalate	150	U	83.2	150	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	310	U	42.7	310	380	ug/Kg
56-55-3	Benzo(a)anthracene	150	U	26.8	150	200	ug/Kg
218-01-9	Chrysene	150	U	23.2	150	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	150	U	69.0	150	200	ug/Kg
117-84-0	Di-n-octyl phthalate	310	U	100	310	380	ug/Kg
205-99-2	Benzo(b)fluoranthene	150	U	22.1	150	200	ug/Kg

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Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/04/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	22BP-W	SDG No.:	Q2819
Lab Sample ID:	Q2819-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	85.8
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP025515.D	1	08/14/25 08:40	08/20/25 20:30	PB169242

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	150	U	26.1	150	200	ug/Kg
50-32-8	Benzo(a)pyrene	150	U	34.4	150	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	150	U	33.9	150	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	150	U	31.9	150	200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	150	U	29.9	150	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	150	U	29.8	150	200	ug/Kg
123-91-1	1,4-Dioxane	150	UQ	52.6	150	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	150	U	31.9	150	200	ug/Kg
SURROGATES							
367-12-4	2-Fluorophenol	95.1		35 - 115		63%	SPK: 150
13127-88-3	Phenol-d6	94.0		34 - 127		63%	SPK: 150
4165-60-0	Nitrobenzene-d5	61.7		37 - 122		62%	SPK: 100
321-60-8	2-Fluorobiphenyl	57.1		44 - 115		57%	SPK: 100
118-79-6	2,4,6-Tribromophenol	91.0		39 - 132		61%	SPK: 150
1718-51-0	Terphenyl-d14	54.3		54 - 127		54%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	193000	7.79				
1146-65-2	Naphthalene-d8	737000	10.554				
15067-26-2	Acenaphthene-d10	450000	14.407				
1517-22-2	Phenanthrene-d10	802000	17.213				
1719-03-5	Chrysene-d12	795000	21.648				
1520-96-3	Perylene-d12	990000	25.018				
TENTATIVE IDENTIFIED COMPOUNDS							
000994-05-8	Butane, 2-methoxy-2-methyl-	1100	J			3.04	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	250	AB			4.95	ug/Kg
000119-61-9	Benzophenone	370	J			15.8	ug/Kg
000057-10-3	n-Hexadecanoic acid	210	J			18.1	ug/Kg
000057-11-4	Octadecanoic acid	84.6	J			19.5	ug/Kg
000111-06-8	Hexadecanoic acid, butyl ester	220	JB			19.6	ug/Kg
000123-95-5	Octadecanoic acid, butyl ester	200	JB			20.7	ug/Kg

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Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/04/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	22BP-W	SDG No.:	Q2819
Lab Sample ID:	Q2819-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	85.8
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP025515.D	1	08/14/25 08:40	08/20/25 20:30	PB169242

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
015306-27-1	Heptacos-1-ene	230	J			21.3	ug/Kg

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

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025515.D
Acq On : 20 Aug 2025 20:30
Operator : CG/JU
Sample : Q2819-03
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
22BP-W

Quant Time: Aug 21 01:37:38 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration

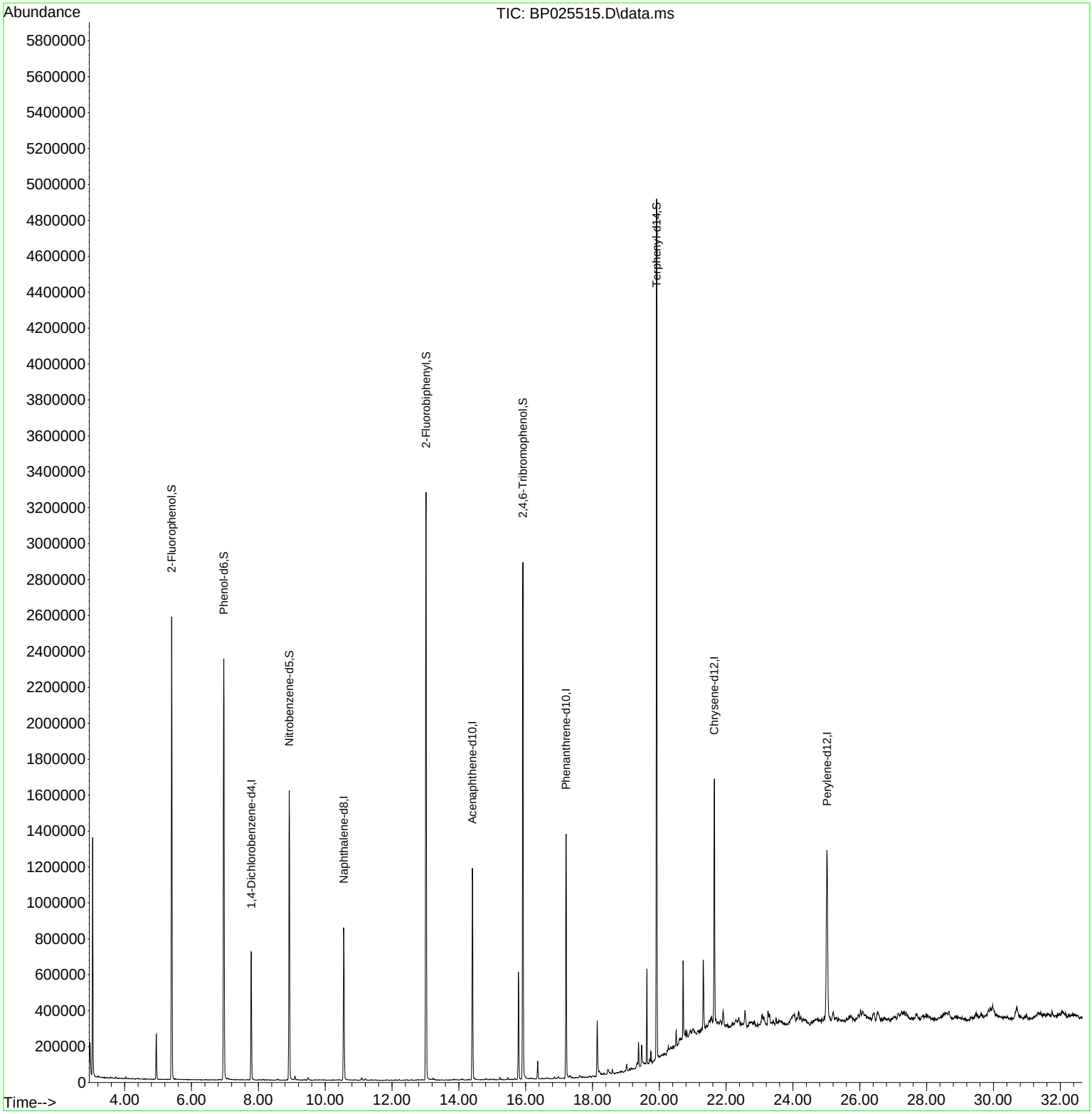
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.790	152	192599	20.000	ng	0.00
21) Naphthalene-d8	10.554	136	737181	20.000	ng	0.00
39) Acenaphthene-d10	14.407	164	449746	20.000	ng	0.00
64) Phenanthrene-d10	17.213	188	801649	20.000	ng	0.01
76) Chrysene-d12	21.648	240	794728	20.000	ng	0.00
86) Perylene-d12	25.018	264	990130	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.407	112	1103023	95.109	ng	0.00
7) Phenol-d6	6.966	99	1396946	93.951	ng	0.00
23) Nitrobenzene-d5	8.925	82	899370	61.715	ng	-0.01
42) 2,4,6-Tribromophenol	15.919	330	550944	91.011	ng	0.00
45) 2-Fluorobiphenyl	13.019	172	1880594	57.147	ng	0.00
79) Terphenyl-d14	19.918	244	2356506	54.250	ng	0.00
Target Compounds						Qvalue

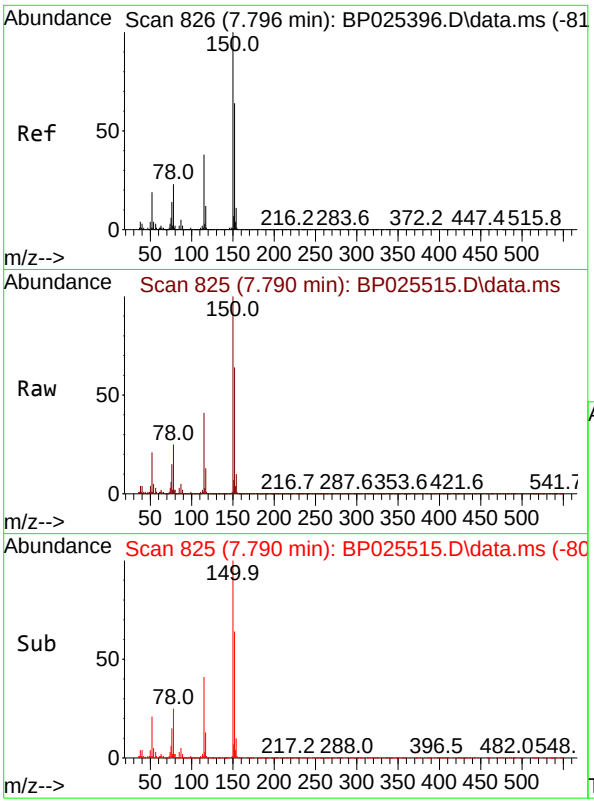
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025515.D
Acq On : 20 Aug 2025 20:30
Operator : CG/JU
Sample : Q2819-03
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
22BP-W

Quant Time: Aug 21 01:37:38 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration



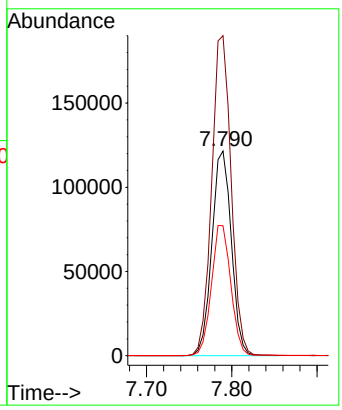


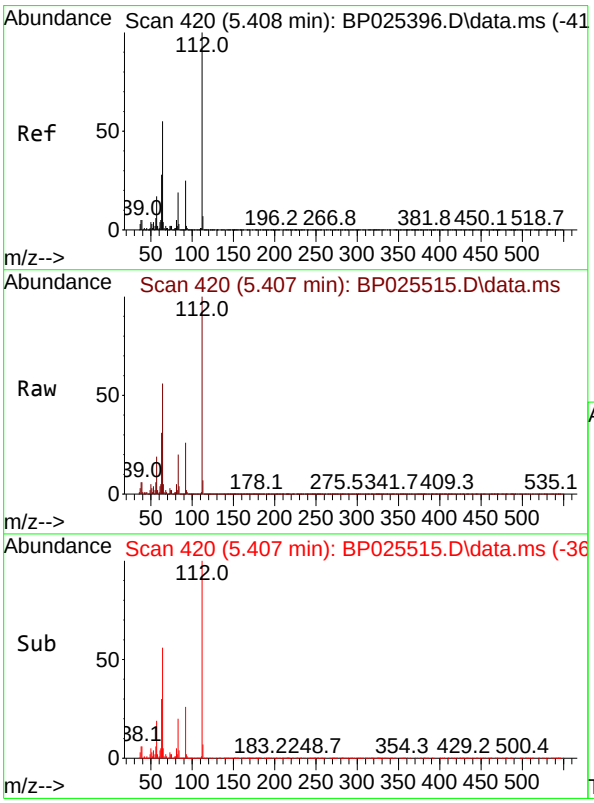
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.790 min Scan# 8
Delta R.T. -0.006 min
Lab File: BP025515.D
Acq: 20 Aug 2025 20:30

Instrument :
BNA_P
ClientSampleId :
22BP-W

Tgt Ion:152 Resp: 192599

Ion	Ratio	Lower	Upper
152	100		
150	156.3	125.9	188.9
115	63.5	48.5	72.7

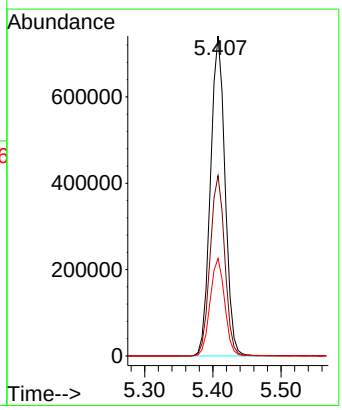


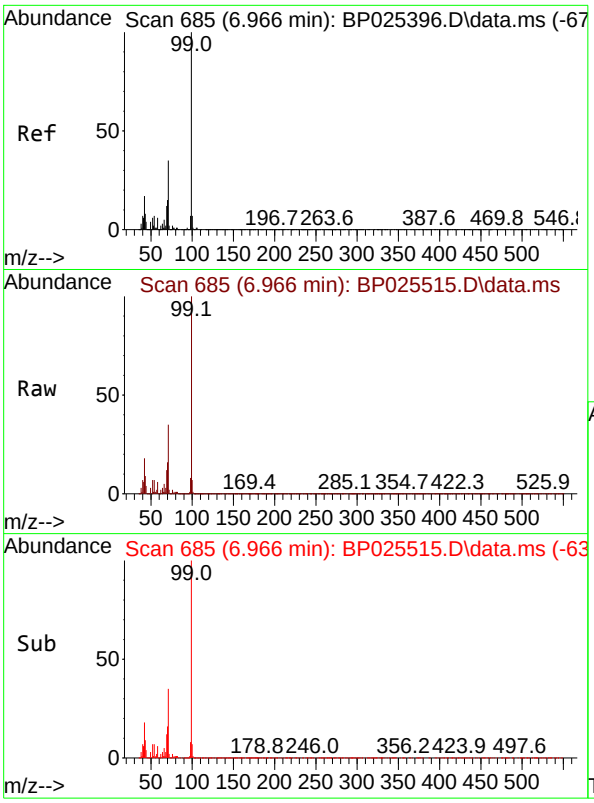


#5
2-Fluorophenol
Concen: 95.109 ng
RT: 5.407 min Scan# 420
Delta R.T. -0.000 min
Lab File: BP025515.D
Acq: 20 Aug 2025 20:30

Tgt Ion:112 Resp: 1103023

Ion	Ratio	Lower	Upper
112	100		
64	56.3	43.8	65.8
63	30.5	22.7	34.1



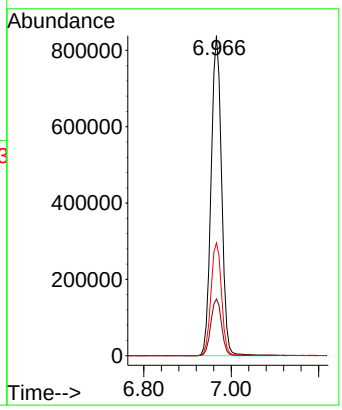


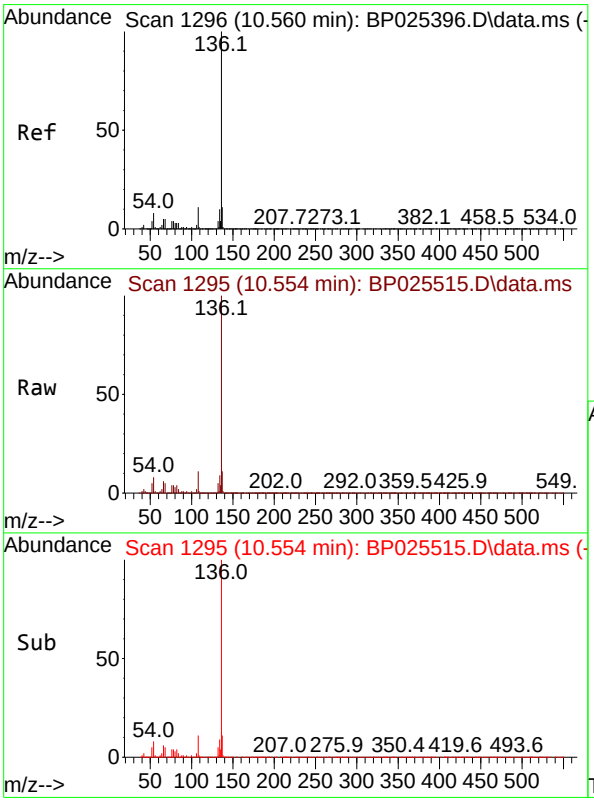
#7
Phenol-d6
Concen: 93.951 ng
RT: 6.966 min Scan# 6
Delta R.T. -0.000 min
Lab File: BP025515.D
Acq: 20 Aug 2025 20:30

Instrument :
BNA_P
ClientSampleId :
22BP-W

Tgt Ion: 99 Resp: 1396946

Ion	Ratio	Lower	Upper
99	100		
42	17.7	13.7	20.5
71	35.3	28.2	42.4

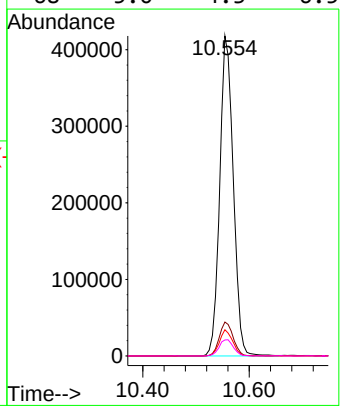


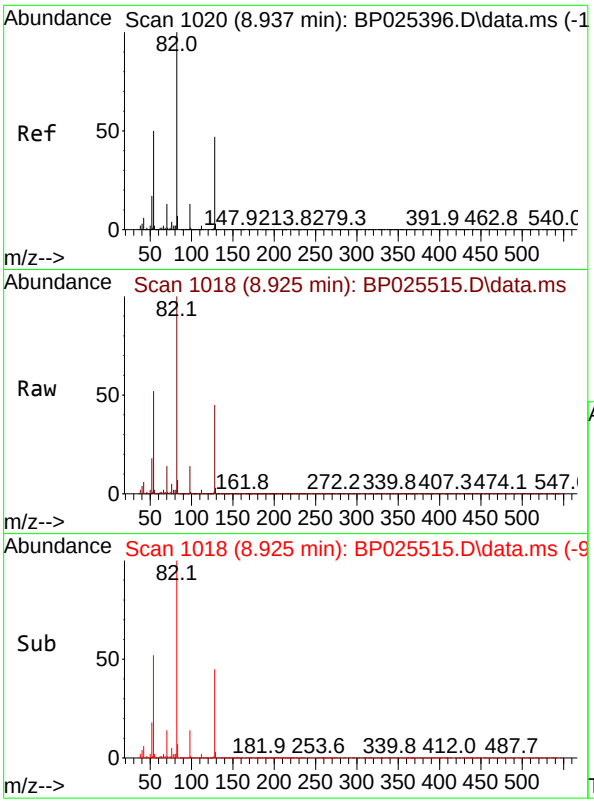


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.554 min Scan# 1295
Delta R.T. -0.006 min
Lab File: BP025515.D
Acq: 20 Aug 2025 20:30

Tgt Ion:136 Resp: 737181

Ion	Ratio	Lower	Upper
136	100		
137	10.6	9.2	13.8
54	8.2	6.0	9.0
68	5.0	4.3	6.5



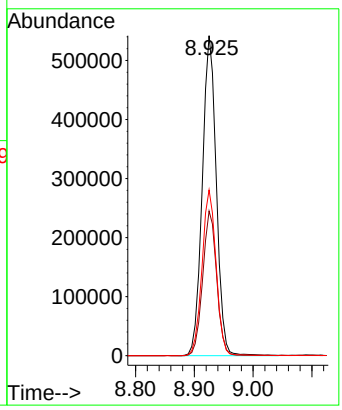


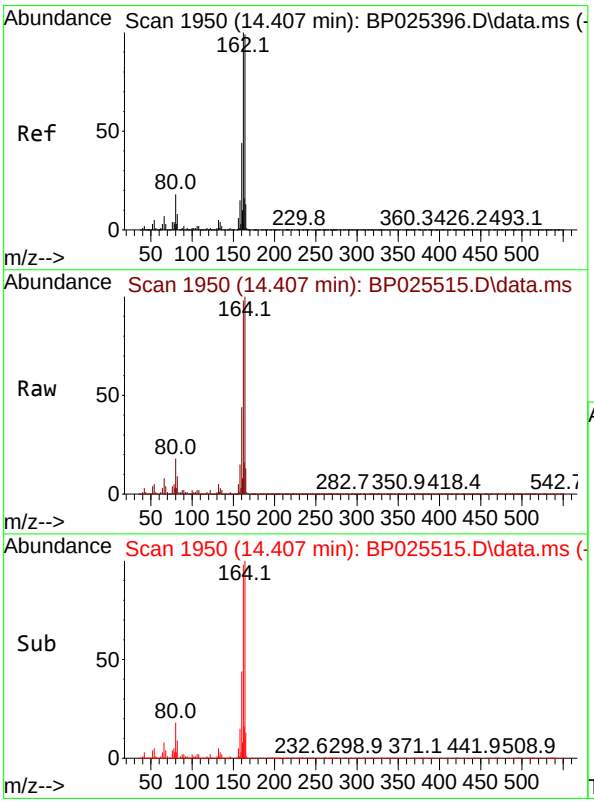
#23
Nitrobenzene-d5
Concen: 61.715 ng
RT: 8.925 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BP025515.D
Acq: 20 Aug 2025 20:30

Instrument :
BNA_P
ClientSampleId :
22BP-W

Tgt Ion: 82 Resp: 899370

Ion	Ratio	Lower	Upper
82	100		
128	45.2	37.7	56.5
54	51.8	39.8	59.6

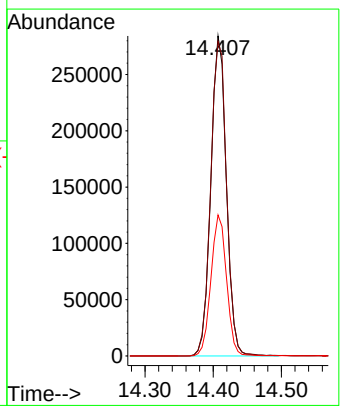


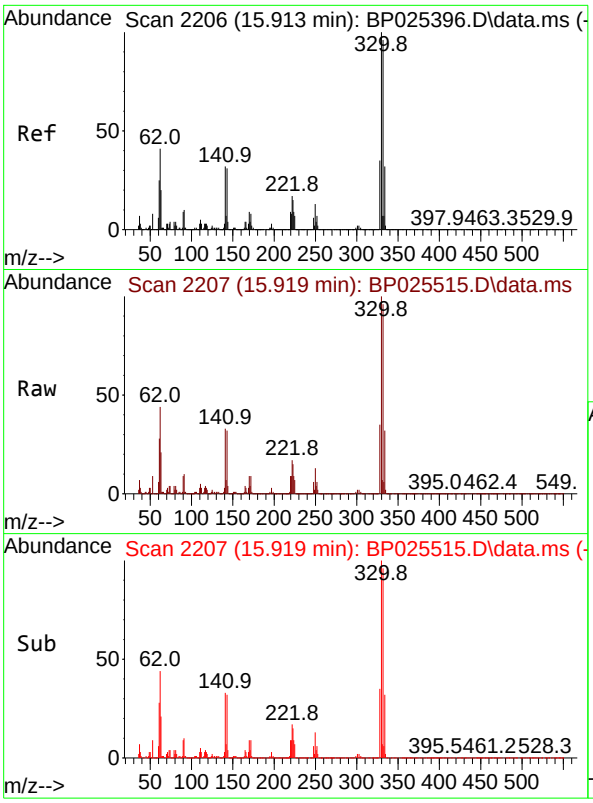


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.407 min Scan# 1950
Delta R.T. -0.000 min
Lab File: BP025515.D
Acq: 20 Aug 2025 20:30

Tgt Ion:164 Resp: 449746

Ion	Ratio	Lower	Upper
164	100		
162	98.3	81.0	121.6
160	44.1	35.4	53.2



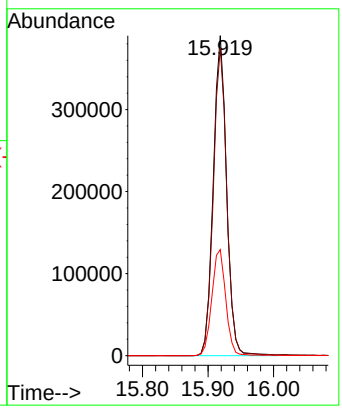


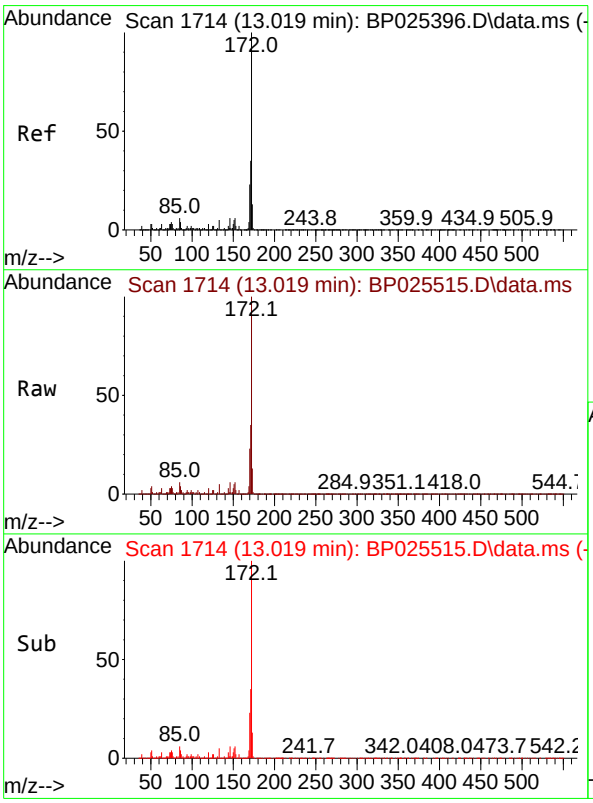
#42
2,4,6-Tribromophenol
Concen: 91.011 ng
RT: 15.919 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025515.D
Acq: 20 Aug 2025 20:30

Instrument :
BNA_P
ClientSampleId :
22BP-W

Tgt Ion:330 Resp: 550944

Ion	Ratio	Lower	Upper
330	100		
332	97.3	77.3	115.9
141	34.7	26.6	39.8

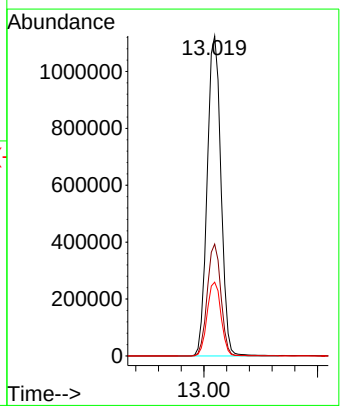


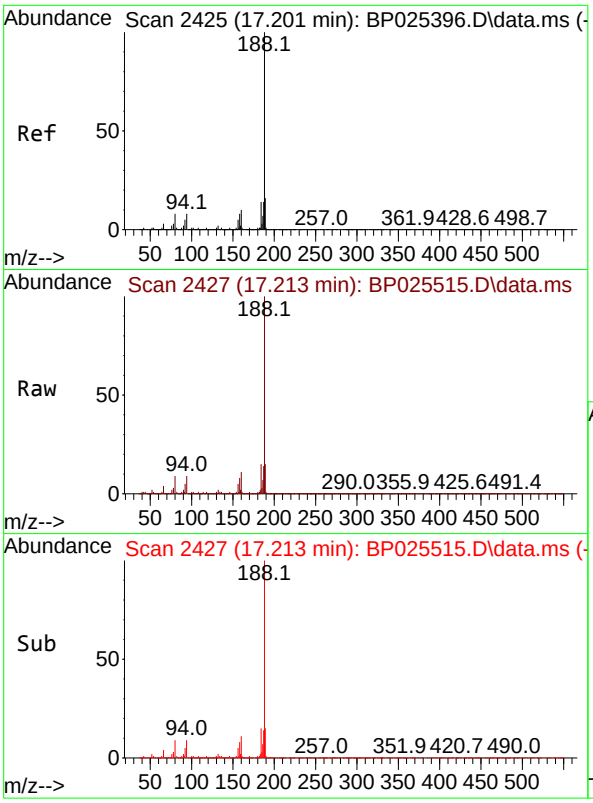


#45
2-Fluorobiphenyl
Concen: 57.147 ng
RT: 13.019 min Scan# 1714
Delta R.T. -0.000 min
Lab File: BP025515.D
Acq: 20 Aug 2025 20:30

Tgt Ion:172 Resp: 1880594

Ion	Ratio	Lower	Upper
172	100		
171	35.0	28.1	42.1
170	23.0	18.6	28.0



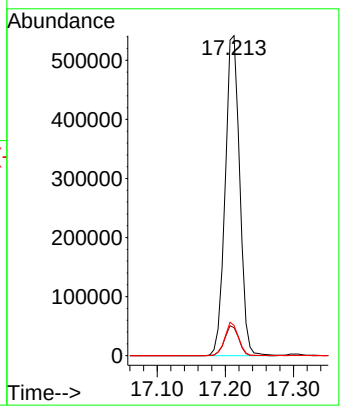


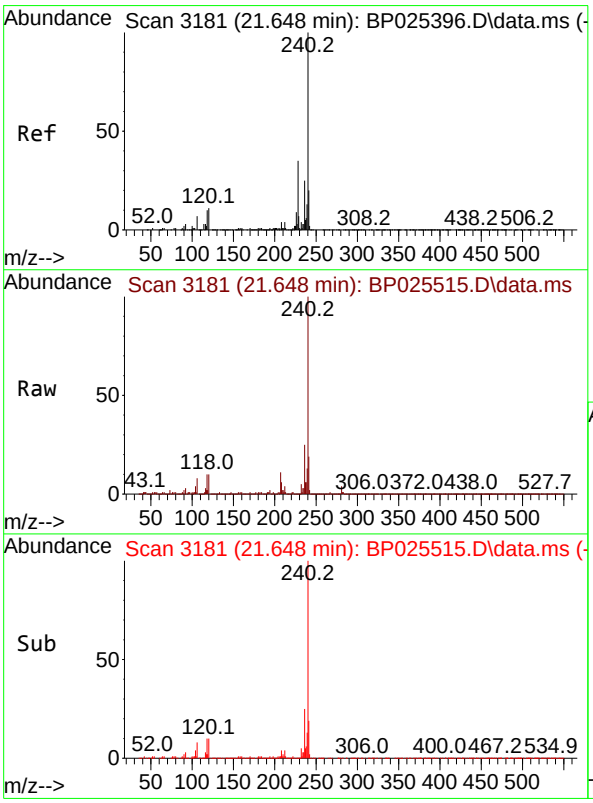
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.213 min Scan# 24
Delta R.T. 0.012 min
Lab File: BP025515.D
Acq: 20 Aug 2025 20:30

Instrument :
BNA_P
ClientSampleId :
22BP-W

Tgt Ion:188 Resp: 801649

Ion	Ratio	Lower	Upper
188	100		
94	8.7	6.6	10.0
80	9.4	6.7	10.1

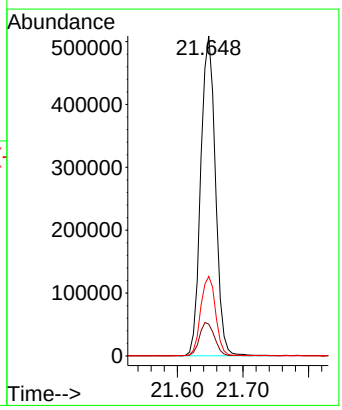


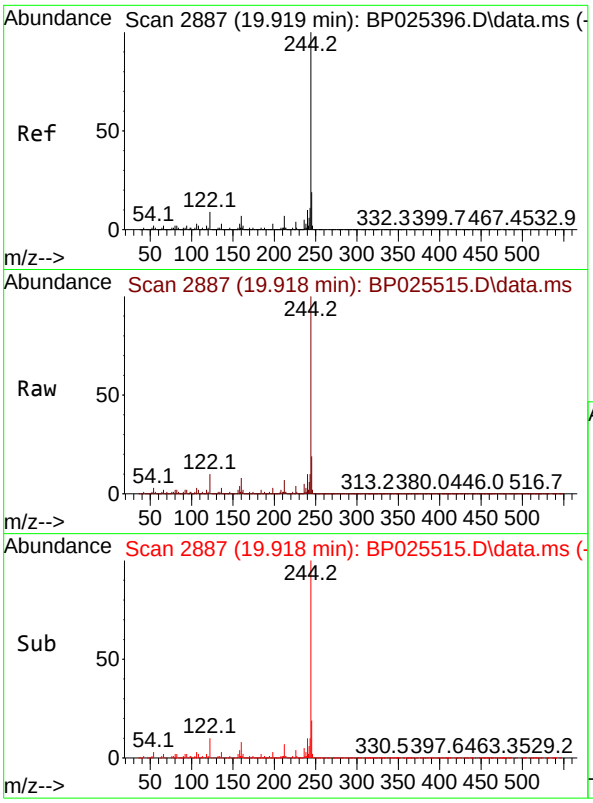


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.648 min Scan# 3181
Delta R.T. -0.000 min
Lab File: BP025515.D
Acq: 20 Aug 2025 20:30

Tgt Ion:240 Resp: 794728

Ion	Ratio	Lower	Upper
240	100		
120	10.0	8.9	13.3
236	24.9	19.8	29.8



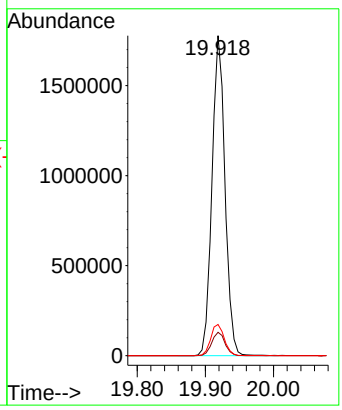


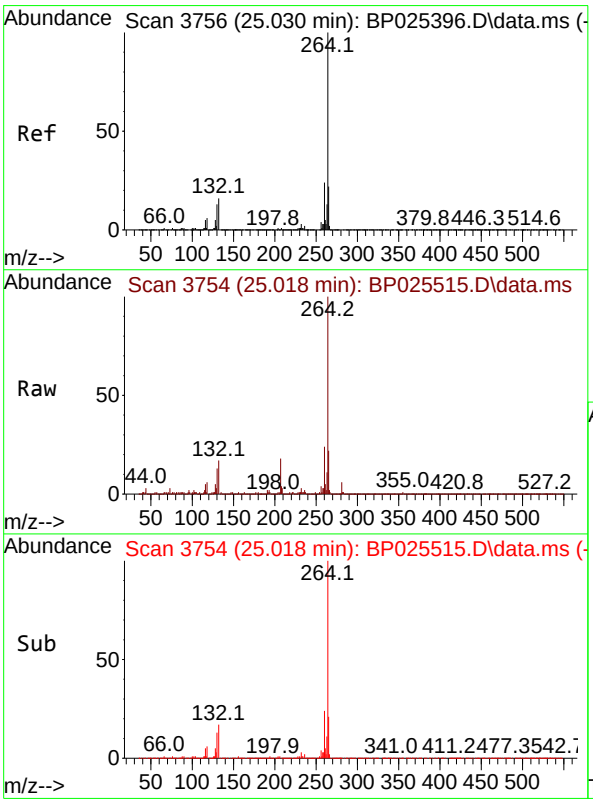
#79
Terphenyl-d14
Concen: 54.250 ng
RT: 19.918 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP025515.D
Acq: 20 Aug 2025 20:30

Instrument :
BNA_P
ClientSampleId :
22BP-W

Tgt Ion:244 Resp: 2356506

Ion	Ratio	Lower	Upper
244	100		
212	7.3	5.8	8.6
122	9.7	7.4	11.2

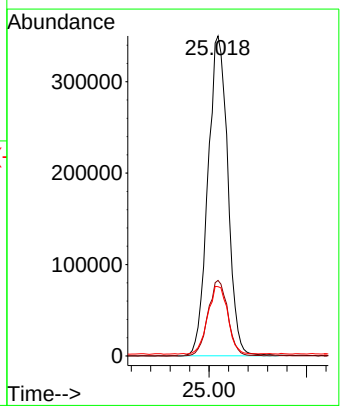




#86
Perylene-d12
Concen: 20.000 ng
RT: 25.018 min Scan# 3754
Delta R.T. -0.012 min
Lab File: BP025515.D
Acq: 20 Aug 2025 20:30

Tgt Ion:264 Resp: 990130

Ion	Ratio	Lower	Upper
264	100		
260	23.6	19.3	28.9
265	21.7	17.4	26.0



Sample Results: **BP025515.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025515.D
Acq On : 20 Aug 2025 20:30
Operator : CG/JU
Sample : Q2819-03
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
22BP-W

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

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

Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BP025515.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.043	13	18	28	rVB	1329788	1663628	25.74%	3.788%
2	4.949	336	342	353	rVB	250737	362403	5.61%	0.825%
3	5.407	413	420	433	rBV	2575774	3822999	59.14%	8.704%
4	6.966	676	685	701	rBV	2345461	3994324	61.79%	9.094%
5	7.784	817	824	834	rBV	713103	1140923	17.65%	2.598%
6	8.925	1010	1018	1035	rBV	1613526	2690128	41.62%	6.125%
7	10.554	1287	1295	1308	rBV	849813	1514741	23.43%	3.449%
8	13.019	1706	1714	1728	rBV	3272287	5487713	84.90%	12.494%
9	14.407	1942	1950	1958	rBV	1179012	1909111	29.53%	4.346%
10	15.783	2174	2184	2194	rBV	600030	897783	13.89%	2.044%
11	15.919	2199	2207	2222	rBV	2876654	4220924	65.30%	9.610%
12	16.360	2273	2282	2289	rVB	99477	149912	2.32%	0.341%
13	17.213	2419	2427	2438	rBV2	1359814	2047426	31.67%	4.661%
14	18.142	2579	2585	2594	rBV	312211	545075	8.43%	1.241%
15	18.466	2634	2640	2648	rBV5	23288	68105	1.05%	0.155%
16	19.377	2792	2795	2801	rVB	130670	161615	2.50%	0.368%
17	19.471	2807	2811	2821	rBV2	117559	225832	3.49%	0.514%
18	19.630	2833	2838	2842	rBV	527394	582744	9.02%	1.327%
19	19.748	2855	2858	2863	rVB2	59343	72806	1.13%	0.166%
20	19.918	2881	2887	2897	rBV	4785708	6464062	100.00%	14.717%
21	20.507	2984	2987	2992	rVB3	90118	107719	1.67%	0.245%
22	20.713	3018	3022	3029	rBV	430719	529309	8.19%	1.205%
23	21.318	3120	3125	3134	rBV	383718	623070	9.64%	1.419%
24	21.648	3176	3181	3187	rVB2	1343611	2074895	32.10%	4.724%
25	25.018	3746	3754	3765	rVB	926621	2566605	39.71%	5.843%

Sum of corrected areas: 43923852

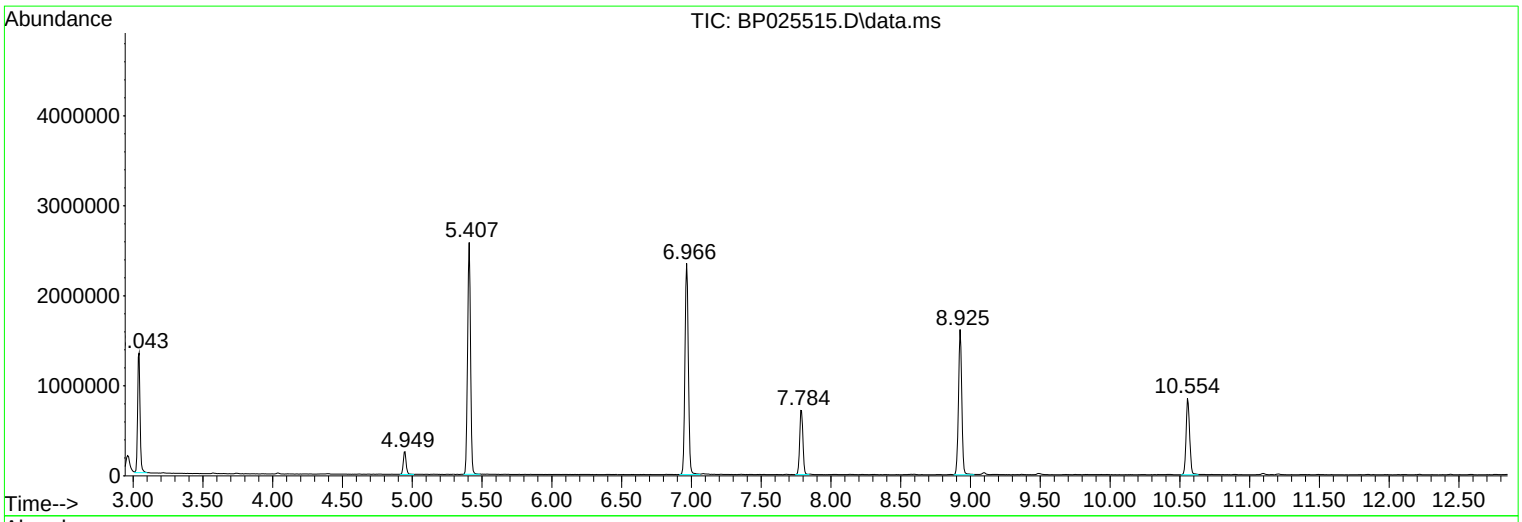
Sample Results: **BP025515.D**

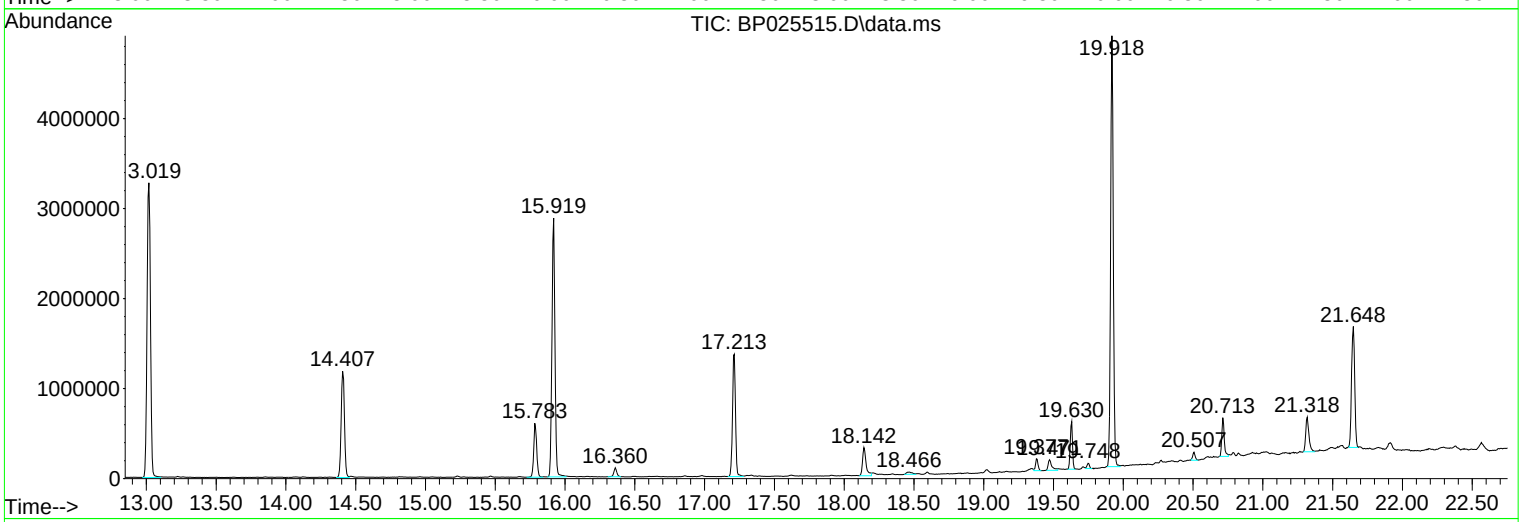
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025515.D
Acq On : 20 Aug 2025 20:30
Operator : CG/JU
Sample : Q2819-03
Misc :
ALS Vial : 5 Sample Multiplier: 1

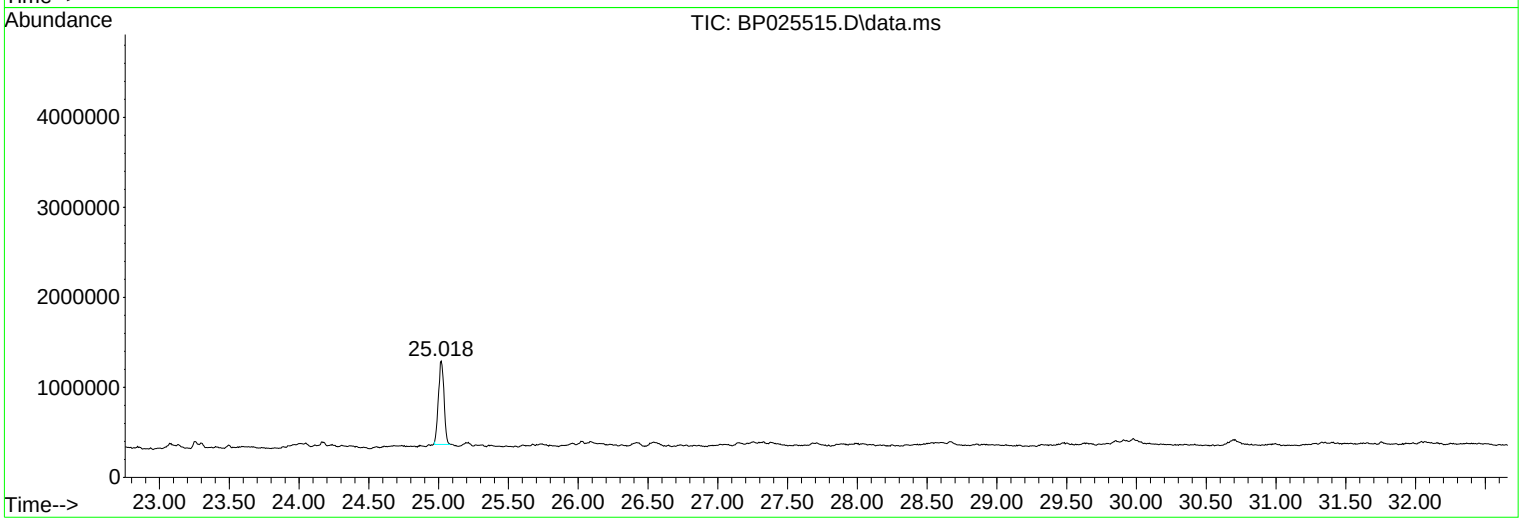
Instrument :
BNA_P
ClientSampleId :
22BP-W

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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







Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025515.D
Acq On : 20 Aug 2025 20:30
Operator : CG/JU
Sample : Q2819-03
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
22BP-W

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

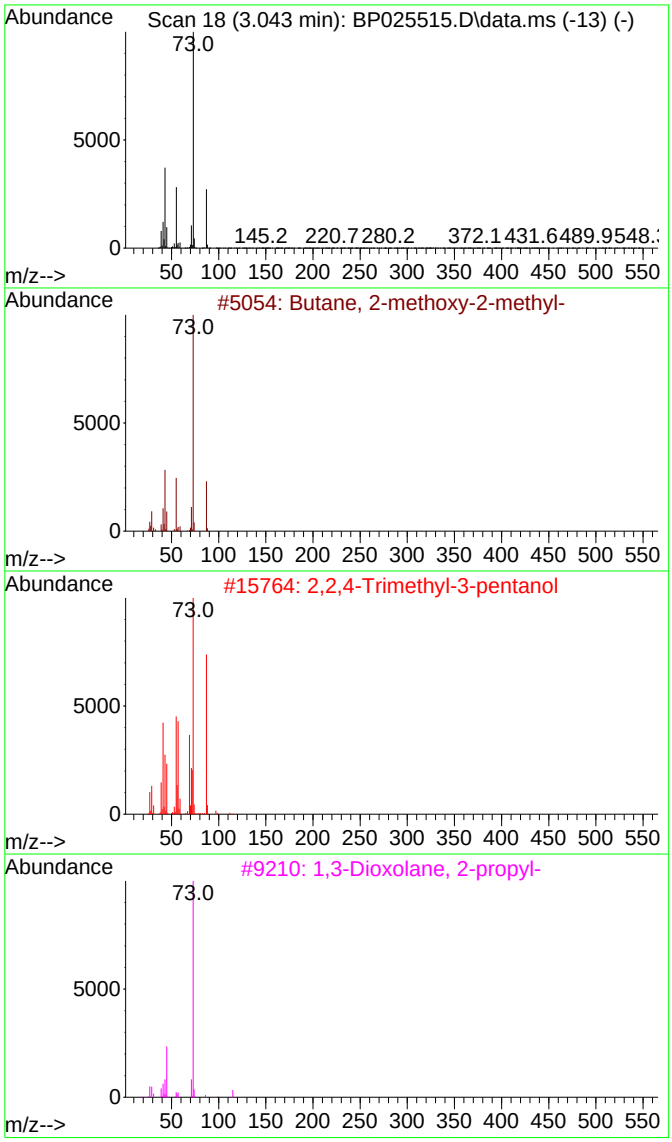
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

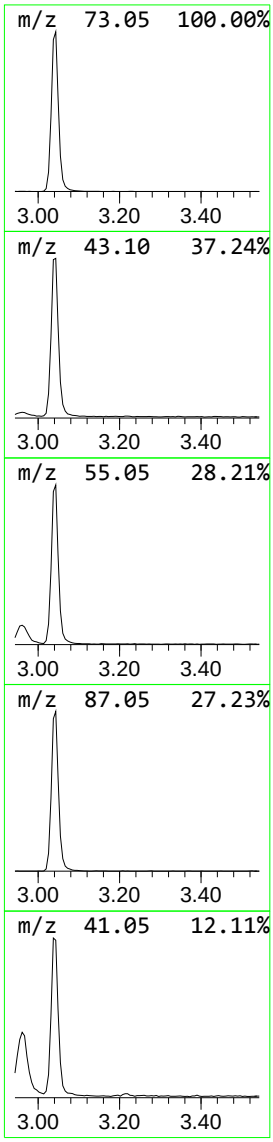
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.043	29.16 ng	1663630	1,4-Dichlorobenzene-d4	7.790

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	1,3-Dioxolane, 2-propyl-	116	C6H12O2	003390-13-4	23
4	Acetamide, N-ethyl-	87	C4H9NO	000625-50-3	22
5	Octanal, 7-methoxy-3,7-dimethyl-	186	C11H22O2	003613-30-7	17





Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025515.D
Acq On : 20 Aug 2025 20:30
Operator : CG/JU
Sample : Q2819-03
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
22BP-W

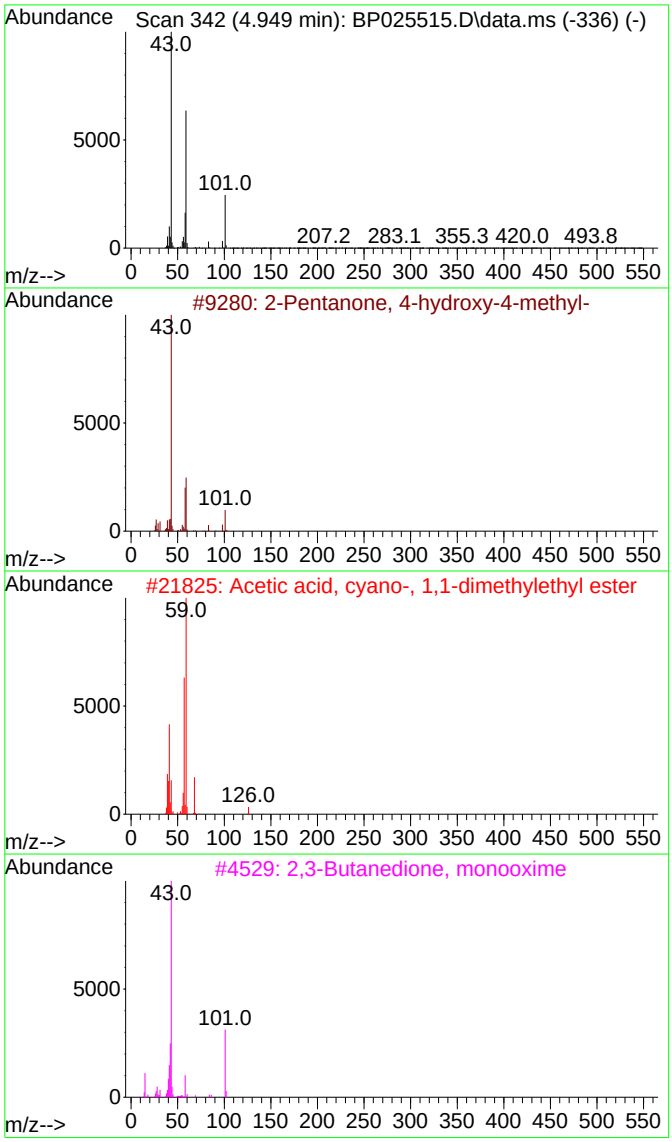
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

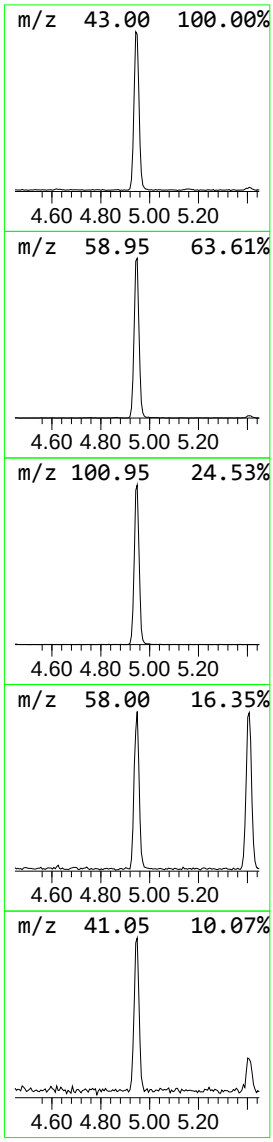
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.949	6.35 ng	362403	1,4-Dichlorobenzene-d4	7.790

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	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	17
4	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	10
5	Acetone	58	C3H6O	000067-64-1	10





Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025515.D
Acq On : 20 Aug 2025 20:30
Operator : CG/JU
Sample : Q2819-03
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
22BP-W

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

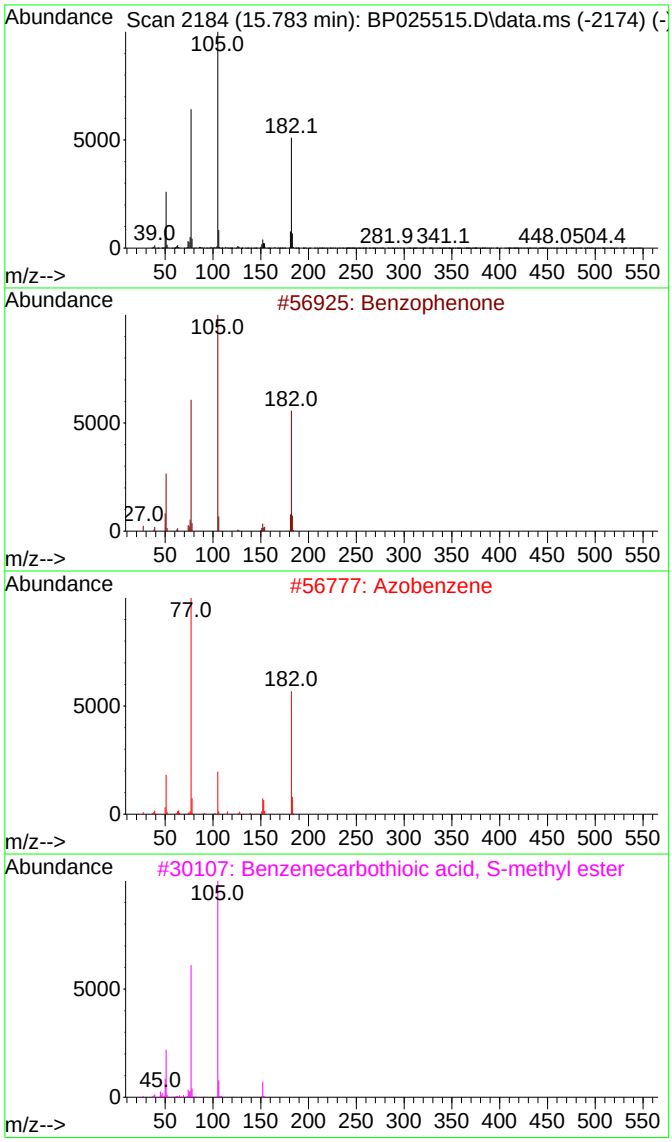
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

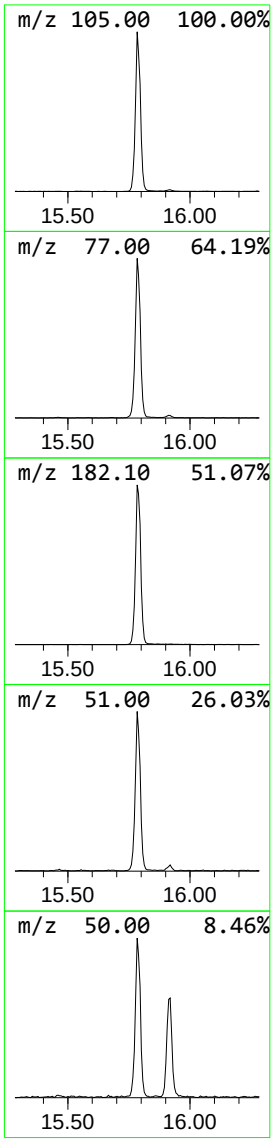
****

Peak Number 3 Benzophenone Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.783	9.41 ng	897783	Acenaphthene-d10	14.407

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	Azobenzene	182	C12H10N2	000103-33-3	72
3	Benzenecarbothioic acid, S-methy...	152	C8H8OS	005925-68-8	52
4	Acetophenone, 2-chloro-	154	C8H7ClO	000532-27-4	49
5	Phenacyl thiocyanate	177	C9H7NOS	005399-30-4	47





Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025515.D
Acq On : 20 Aug 2025 20:30
Operator : CG/JU
Sample : Q2819-03
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
22BP-W

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

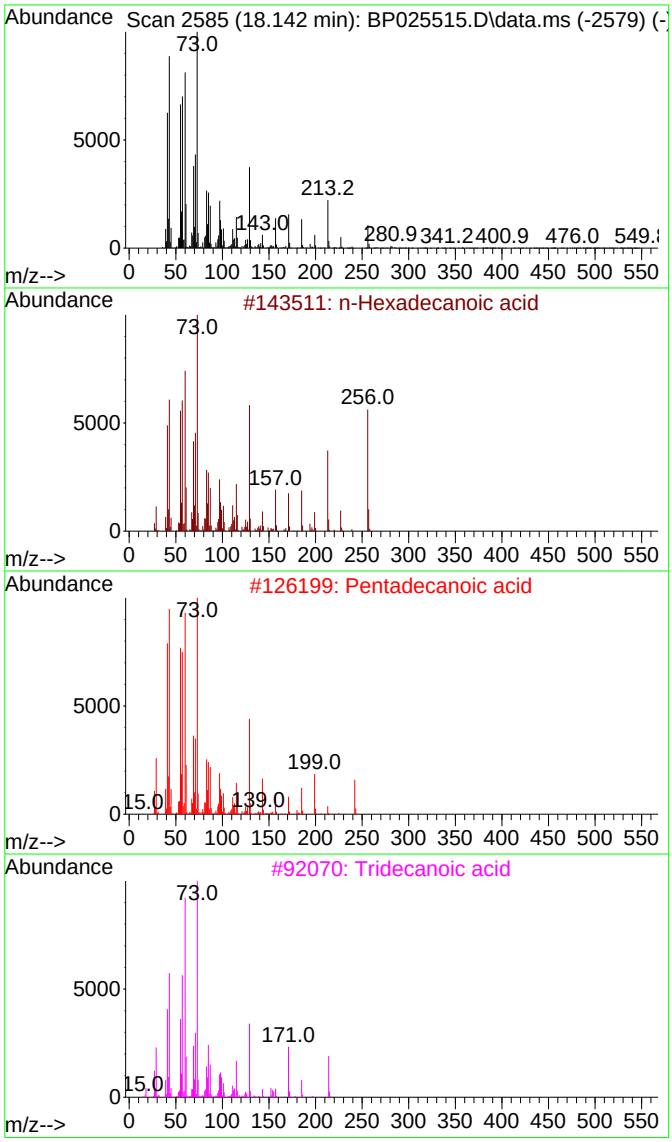
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

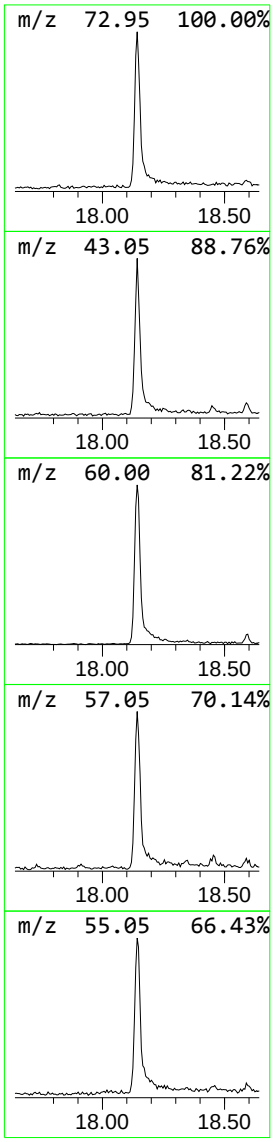
****

Peak Number 4 n-Hexadecanoic acid Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.142	5.32 ng	545075	Phenanthrene-d10	17.213

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2	Pentadecanoic acid	242	C15H30O2	001002-84-2	91
3	Tridecanoic acid	214	C13H26O2	000638-53-9	89
4	Octadecanoic acid	284	C18H36O2	000057-11-4	87
5	Tetradecanoic acid	228	C14H28O2	000544-63-8	76





Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025515.D
Acq On : 20 Aug 2025 20:30
Operator : CG/JU
Sample : Q2819-03
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
22BP-W

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

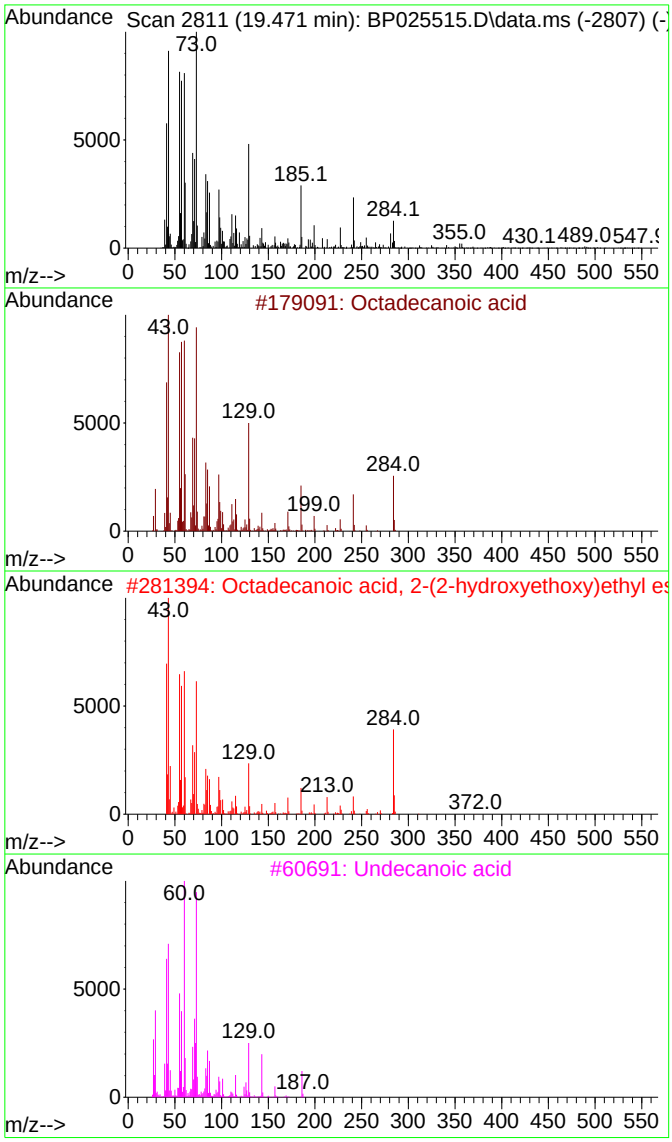
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

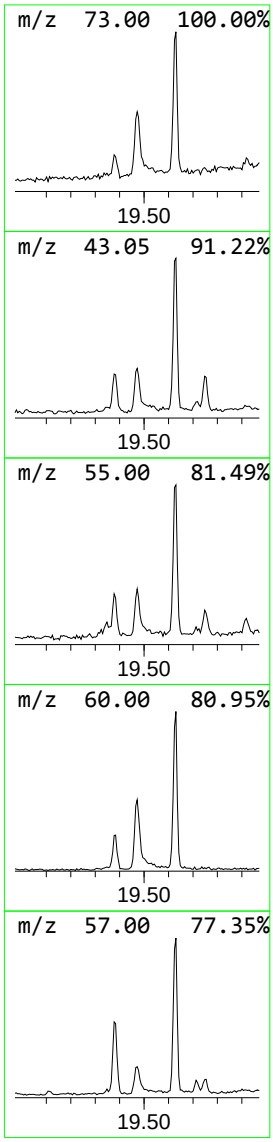
****

Peak Number 5 Octadecanoic acid Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.471	2.18 ng	225832	Chrysene-d12	21.648

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	90
3	Undecanoic acid	186	C11H22O2	000112-37-8	74
4	n-Decanoic acid	172	C10H20O2	000334-48-5	70
5	Tetradecanoic acid	228	C14H28O2	000544-63-8	64





Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025515.D
Acq On : 20 Aug 2025 20:30
Operator : CG/JU
Sample : Q2819-03
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
22BP-W

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

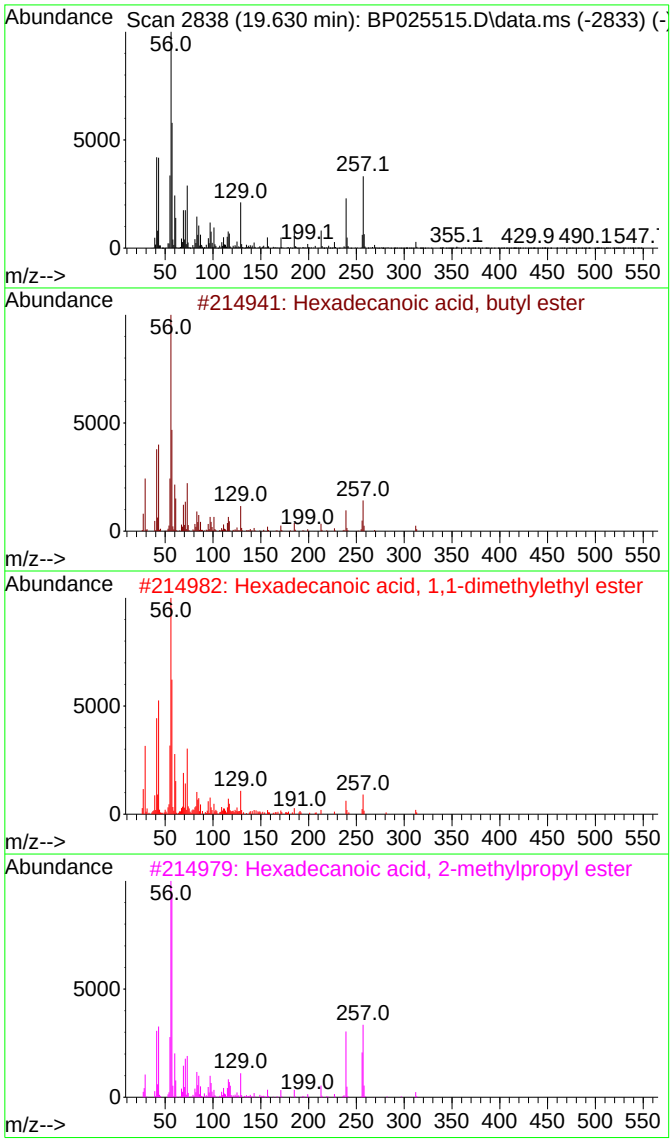
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

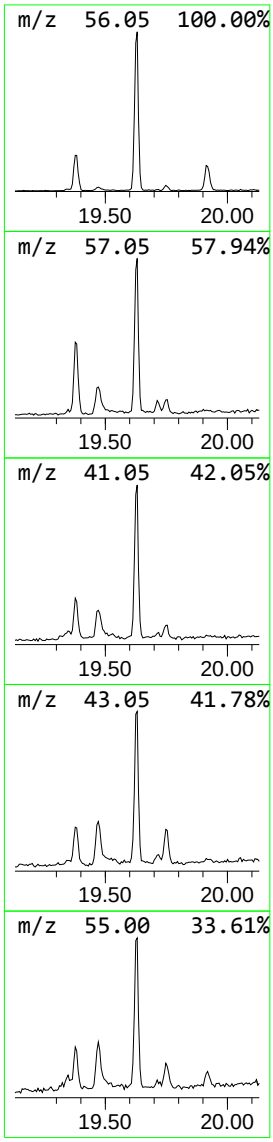
****

Peak Number 6 Hexadecanoic acid, butyl ester Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.630	5.62 ng	582744	Chrysene-d12	21.648

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecanoic acid, butyl ester	312	C20H40O2	000111-06-8	98
2	Hexadecanoic acid, 1,1-dimethyle...	312	C20H40O2	031158-91-5	96
3	Hexadecanoic acid, 2-methylpropy...	312	C20H40O2	000110-34-9	89
4	Nipecotic acid	129	C6H11NO2	000498-95-3	47
5	Cyclohexanol, 4-amino-, trans-	115	C6H13NO	027489-62-9	30





Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025515.D
Acq On : 20 Aug 2025 20:30
Operator : CG/JU
Sample : Q2819-03
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
22BP-W

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

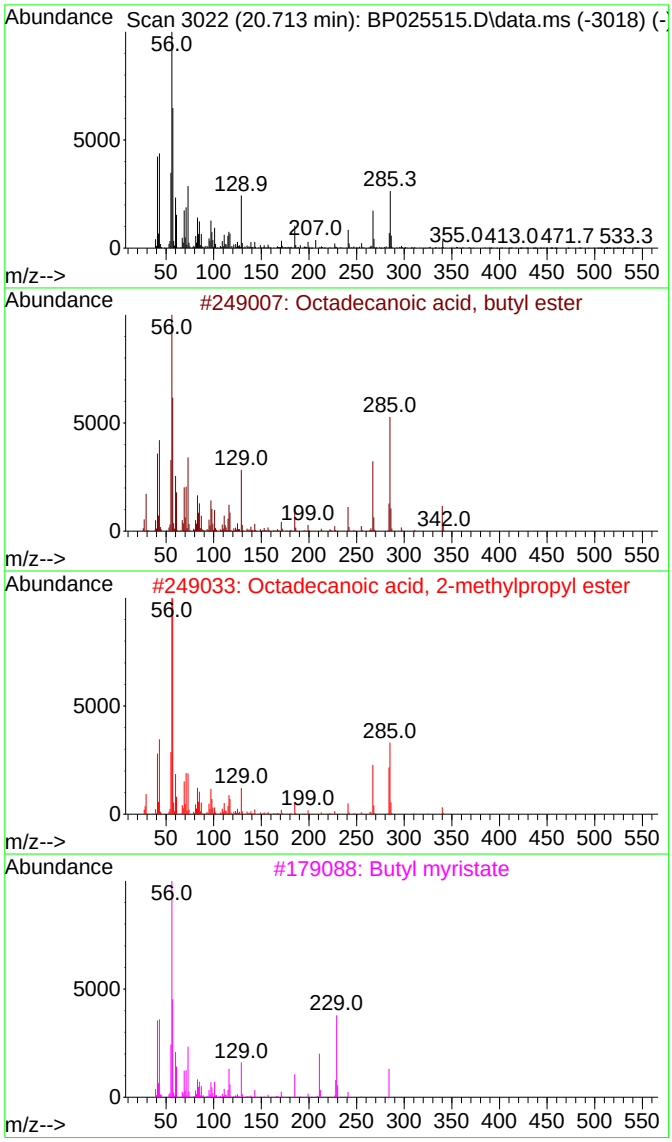
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

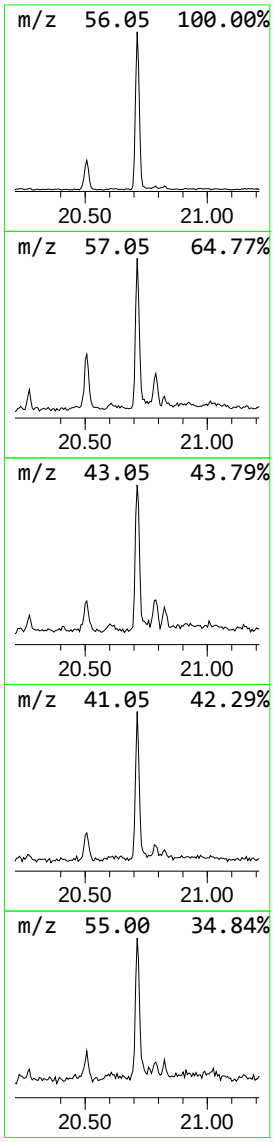
****

Peak Number 7 Octadecanoic acid, butyl ester Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.713	5.10 ng	529309	Chrysene-d12	21.648

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanoic acid, butyl ester	340	C22H44O2	000123-95-5	96
2	Octadecanoic acid, 2-methylpropy...	340	C22H44O2	000646-13-9	89
3	Butyl myristate	284	C18H36O2	000110-36-1	50
4	Tetracosanoic acid, isobutyl ester	424	C28H56O2	1010405-17-3	37
5	Cyclopropane, 1-(1-methylethyl)-...	210	C15H30	041977-39-3	27





Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025515.D
Acq On : 20 Aug 2025 20:30
Operator : CG/JU
Sample : Q2819-03
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
22BP-W

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

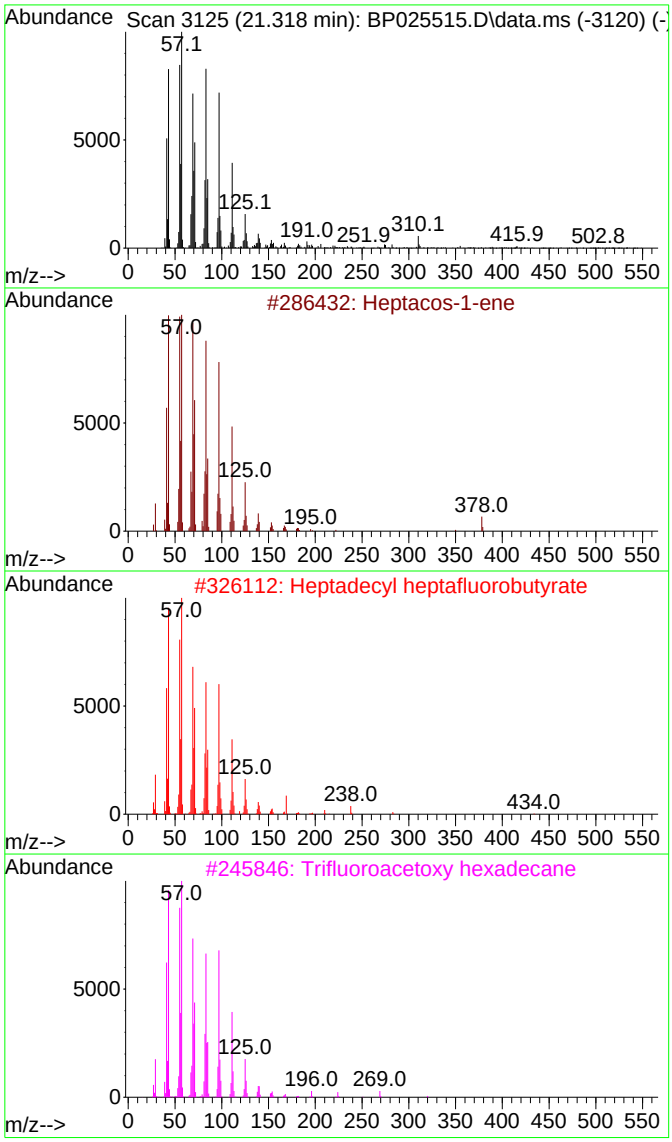
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

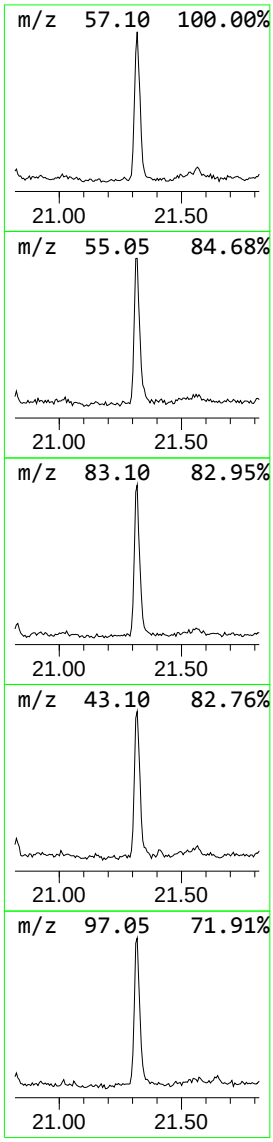
****

Peak Number 8 Heptacos-1-ene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.318	6.01 ng	623070	Chrysene-d12	21.648

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptacos-1-ene	378	C27H54	015306-27-1	95
2	Heptadecyl heptafluorobutyrate	452	C21H35F7O2	959085-66-6	94
3	Trifluoroacetoxy hexadecane	338	C18H33F3O2	006222-03-3	94
4	n-Tetracosanol-1	354	C24H50O	000506-51-4	94
5	Pentacos-1-ene	350	C25H50	016980-85-1	94





Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025515.D
Acq On : 20 Aug 2025 20:30
Operator : CG/JU
Sample : Q2819-03
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
22BP-W

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.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...	3.043	29.2	ng	1663630	1	7.790	1140920	20.0
2-Pentanone, 4-...	4.949	6.3	ng	362403	1	7.790	1140920	20.0
Benzophenone	15.783	9.4	ng	897783	3	14.407	1909110	20.0
n-Hexadecanoic ...	18.142	5.3	ng	545075	4	17.213	2047430	20.0
Octadecanoic acid	19.471	2.2	ng	225832	5	21.648	2074900	20.0
Hexadecanoic ac...	19.630	5.6	ng	582744	5	21.648	2074900	20.0
Octadecanoic ac...	20.713	5.1	ng	529309	5	21.648	2074900	20.0
Heptacos-1-ene	21.318	6.0	ng	623070	5	21.648	2074900	20.0

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Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/04/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	22BP-S	SDG No.:	Q2819
Lab Sample ID:	Q2819-04	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	88.1
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
BP025539.D	1	08/14/25 08:40	08/21/25 14:15	PB169242

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
100-52-7	Benzaldehyde	310	U	180	310	370	ug/Kg
108-95-2	Phenol	150	U	25.1	150	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	150	U	27.6	150	190	ug/Kg
95-57-8	2-Chlorophenol	150	U	27.7	150	190	ug/Kg
95-48-7	2-Methylphenol	150	U	33.9	150	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	150	U	42.6	150	190	ug/Kg
98-86-2	Acetophenone	150	U	33.5	150	190	ug/Kg
65794-96-9	3+4-Methylphenols	310	U	46.6	310	370	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	90.8	U	53.8	90.8	90.8	ug/Kg
67-72-1	Hexachloroethane	150	U	20.0	150	190	ug/Kg
98-95-3	Nitrobenzene	150	U	20.8	150	190	ug/Kg
78-59-1	Isophorone	150	U	37.2	150	190	ug/Kg
88-75-5	2-Nitrophenol	150	U	66.0	150	190	ug/Kg
105-67-9	2,4-Dimethylphenol	150	U	73.5	150	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	150	U	34.9	150	190	ug/Kg
120-83-2	2,4-Dichlorophenol	150	U	32.1	150	190	ug/Kg
91-20-3	Naphthalene	150	U	25.8	150	190	ug/Kg
106-47-8	4-Chloroaniline	150	U	40.2	150	190	ug/Kg
87-68-3	Hexachlorobutadiene	150	U	28.7	150	190	ug/Kg
105-60-2	Caprolactam	310	U	59.1	310	370	ug/Kg
59-50-7	4-Chloro-3-methylphenol	150	U	32.6	150	190	ug/Kg
91-57-6	2-Methylnaphthalene	150	U	29.0	150	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	310	U	130	310	370	ug/Kg
88-06-2	2,4,6-Trichlorophenol	150	U	22.5	150	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	150	U	33.0	150	190	ug/Kg
92-52-4	1,1-Biphenyl	150	U	24.7	150	190	ug/Kg
91-58-7	2-Chloronaphthalene	150	U	25.5	150	190	ug/Kg
88-74-4	2-Nitroaniline	150	U	54.6	150	190	ug/Kg
131-11-3	Dimethylphthalate	150	U	30.8	150	190	ug/Kg

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Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/04/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	22BP-S	SDG No.:	Q2819
Lab Sample ID:	Q2819-04	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	88.1
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
BP025539.D	1	08/14/25 08:40	08/21/25 14:15	PB169242

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	150	U	32.8	150	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	150	U	38.1	150	190	ug/Kg
99-09-2	3-Nitroaniline	150	U	52.2	150	190	ug/Kg
83-32-9	Acenaphthene	150	U	24.2	150	190	ug/Kg
51-28-5	2,4-Dinitrophenol	310	U	260	310	370	ug/Kg
100-02-7	4-Nitrophenol	310	U	120	310	370	ug/Kg
132-64-9	Dibenzofuran	150	U	25.8	150	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	150	U	56.8	150	190	ug/Kg
84-66-2	Diethylphthalate	150	U	32.1	150	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	150	U	30.3	150	190	ug/Kg
86-73-7	Fluorene	150	U	28.7	150	190	ug/Kg
100-01-6	4-Nitroaniline	150	U	72.8	150	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	310	U	120	310	370	ug/Kg
86-30-6	n-Nitrosodiphenylamine	150	U	37.3	150	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	150	U	31.5	150	190	ug/Kg
118-74-1	Hexachlorobenzene	150	U	28.7	150	190	ug/Kg
1912-24-9	Atrazine	150	U	38.6	150	190	ug/Kg
87-86-5	Pentachlorophenol	310	U	58.2	310	370	ug/Kg
85-01-8	Phenanthrene	150	U	23.7	150	190	ug/Kg
120-12-7	Anthracene	150	U	37.8	150	190	ug/Kg
86-74-8	Carbazole	150	U	35.4	150	190	ug/Kg
84-74-2	Di-n-butylphthalate	150	U	54.4	150	190	ug/Kg
206-44-0	Fluoranthene	150	U	34.0	150	190	ug/Kg
129-00-0	Pyrene	150	U	40.8	150	190	ug/Kg
85-68-7	Butylbenzylphthalate	150	U	81.0	150	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	310	U	41.6	310	370	ug/Kg
56-55-3	Benzo(a)anthracene	150	U	26.1	150	190	ug/Kg
218-01-9	Chrysene	150	U	22.6	150	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	150	U	67.2	150	190	ug/Kg
117-84-0	Di-n-octyl phthalate	310	U	98.5	310	370	ug/Kg
205-99-2	Benzo(b)fluoranthene	150	U	21.6	150	190	ug/Kg

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Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/04/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	22BP-S	SDG No.:	Q2819
Lab Sample ID:	Q2819-04	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	88.1
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
BP025539.D	1	08/14/25 08:40	08/21/25 14:15	PB169242

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	150	U	25.4	150	190	ug/Kg
50-32-8	Benzo(a)pyrene	150	U	33.5	150	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	150	U	33.0	150	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	150	U	31.1	150	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	150	U	29.2	150	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	150	U	29.0	150	190	ug/Kg
123-91-1	1,4-Dioxane	150	UQ	51.3	150	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	150	U	31.1	150	190	ug/Kg
SURROGATES							
367-12-4	2-Fluorophenol	62.0		35 - 115		41%	SPK: 150
13127-88-3	Phenol-d6	63.4		34 - 127		42%	SPK: 150
4165-60-0	Nitrobenzene-d5	39.4		37 - 122		39%	SPK: 100
321-60-8	2-Fluorobiphenyl	36.9	*	44 - 115		37%	SPK: 100
118-79-6	2,4,6-Tribromophenol	64.2		39 - 132		43%	SPK: 150
1718-51-0	Terphenyl-d14	34.8	*	54 - 127		35%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	193000	7.784				
1146-65-2	Naphthalene-d8	777000	10.554				
15067-26-2	Acenaphthene-d10	487000	14.395				
1517-22-2	Phenanthrene-d10	967000	17.195				
1719-03-5	Chrysene-d12	966000	21.648				
1520-96-3	Perylene-d12	1100000	25.024				
TENTATIVE IDENTIFIED COMPOUNDS							
000994-05-8	Butane, 2-methoxy-2-methyl-	640	J			3.04	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	150	AB			4.94	ug/Kg
000119-61-9	Benzophenone	280	J			15.8	ug/Kg
000057-10-3	n-Hexadecanoic acid	260	J			18.1	ug/Kg
000057-11-4	Octadecanoic acid	86.6	J			19.5	ug/Kg
041755-58-2	Triacontyl acetate	88.9	J			21.3	ug/Kg
018835-32-0	1-Tricosene	190	J			21.3	ug/Kg

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Report of Analysis

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Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	22BP-S	SDG No.:	Q2819
Lab Sample ID:	Q2819-04	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	88.1
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
BP025539.D	1	08/14/25 08:40	08/21/25 14:15	PB169242

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

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

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025539.D
Acq On : 21 Aug 2025 14:15
Operator : CG/JU
Sample : Q2819-04
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
22BP-S

Quant Time: Aug 21 14:52:35 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration

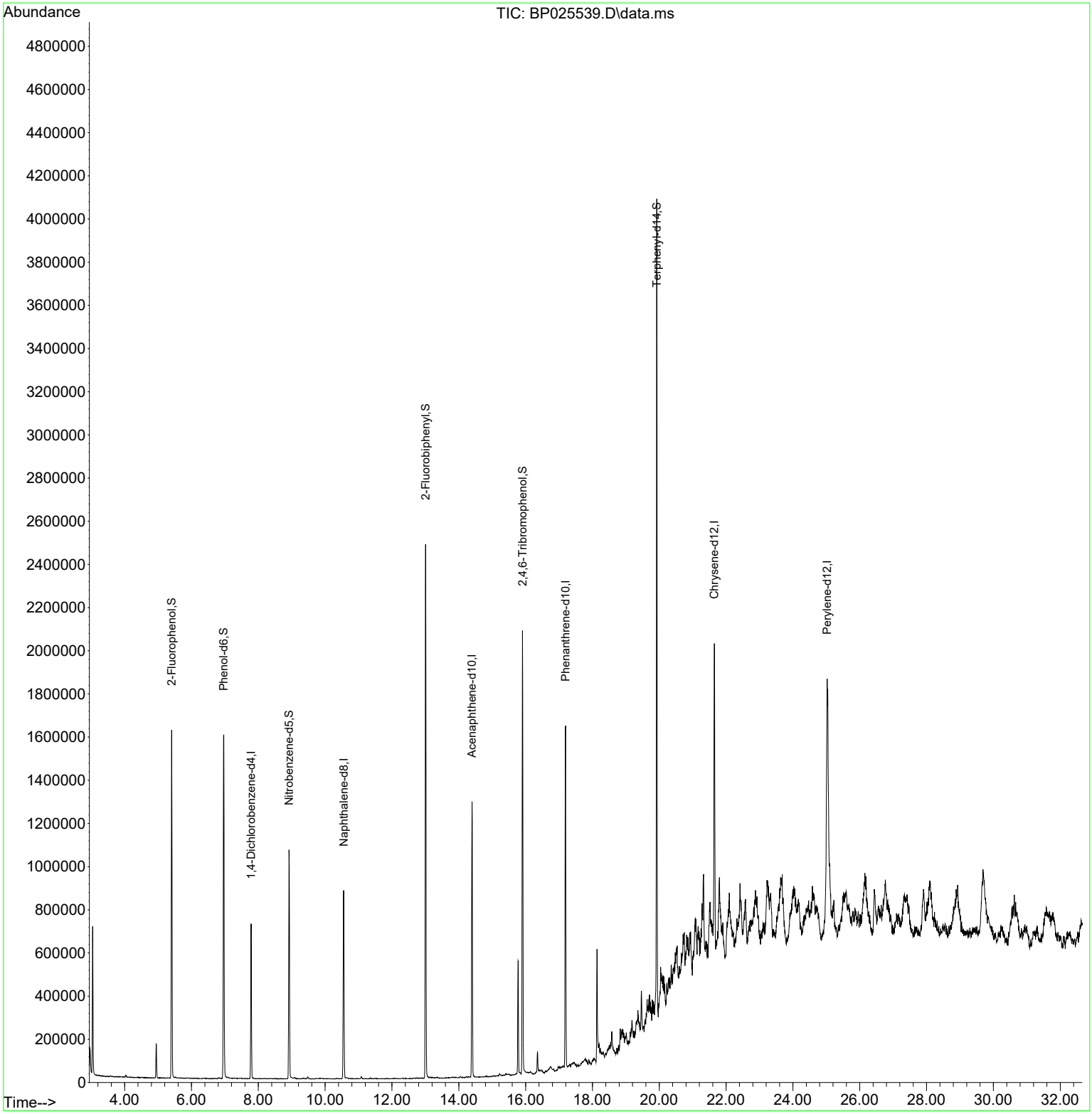
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.784	152	193258	20.000	ng	-0.01
21) Naphthalene-d8	10.554	136	777260	20.000	ng	0.00
39) Acenaphthene-d10	14.395	164	486743	20.000	ng	-0.01
64) Phenanthrene-d10	17.195	188	966815	20.000	ng	0.00
76) Chrysene-d12	21.648	240	966494	20.000	ng	0.00
86) Perylene-d12	25.024	264	1099088	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.408	112	721200	61.974	ng	0.00
7) Phenol-d6	6.960	99	945732	63.388	ng	0.00
23) Nitrobenzene-d5	8.919	82	605248	39.391	ng	-0.02
42) 2,4,6-Tribromophenol	15.907	330	420522	64.186	ng	0.00
45) 2-Fluorobiphenyl	13.007	172	1314916	36.920	ng	-0.01
79) Terphenyl-d14	19.924	244	1839522	34.822	ng	0.00
Target Compounds						Qvalue

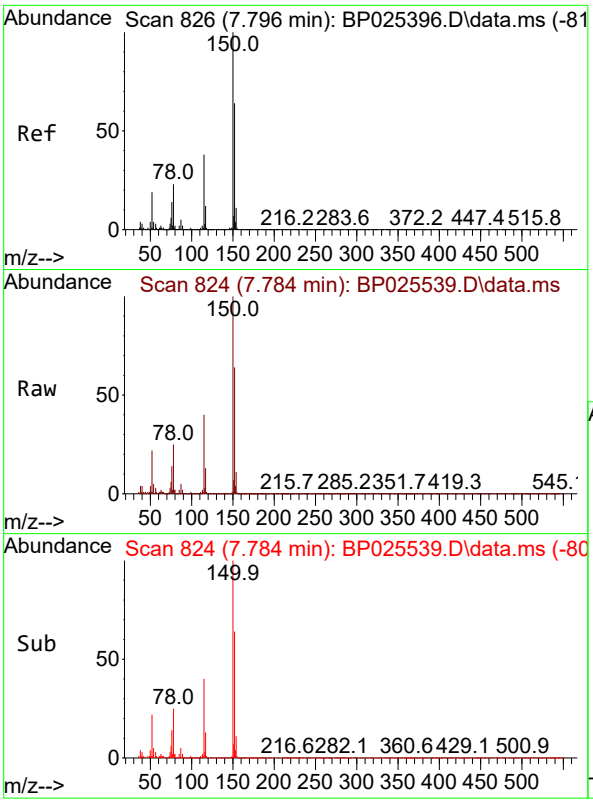
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025539.D
Acq On : 21 Aug 2025 14:15
Operator : CG/JU
Sample : Q2819-04
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
22BP-S

Quant Time: Aug 21 14:52:35 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration



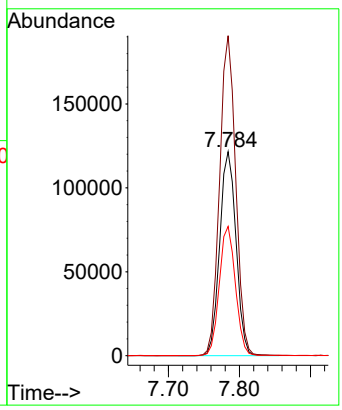


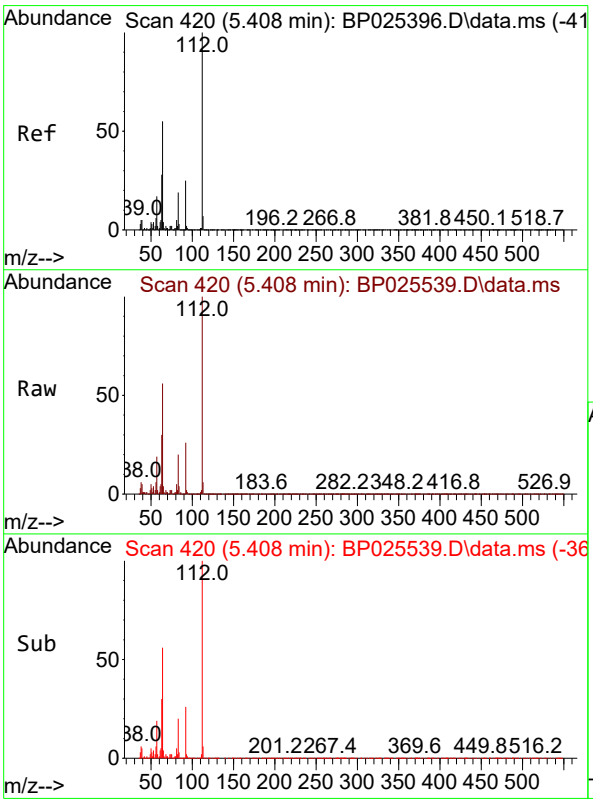
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.784 min Scan# 8
Delta R.T. -0.012 min
Lab File: BP025539.D
Acq: 21 Aug 2025 14:15

Instrument :
BNA_P
ClientSampleId :
22BP-S

Tgt Ion:152 Resp: 193258

Ion	Ratio	Lower	Upper
152	100		
150	156.8	125.9	188.9
115	63.3	48.5	72.7

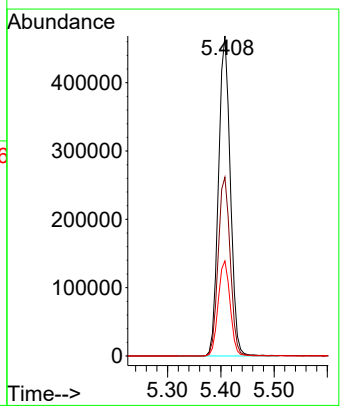


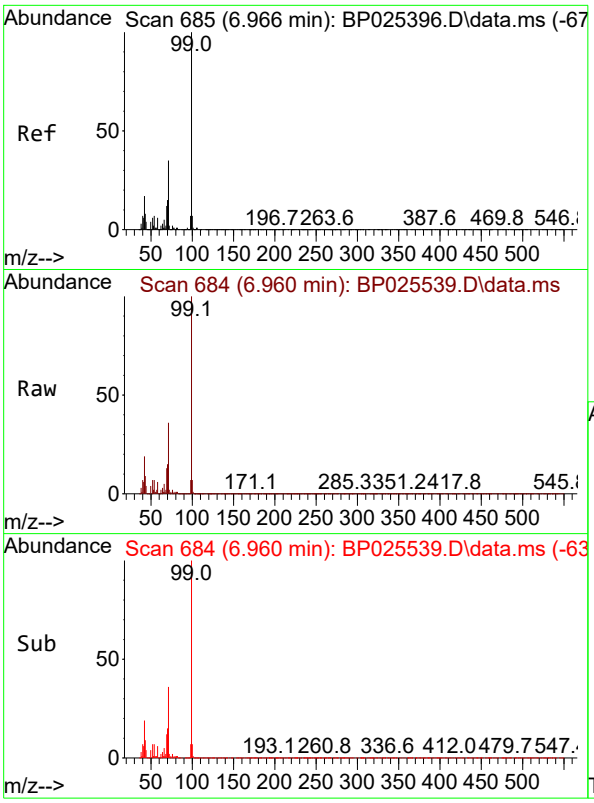


#5
2-Fluorophenol
Concen: 61.974 ng
RT: 5.408 min Scan# 420
Delta R.T. 0.000 min
Lab File: BP025539.D
Acq: 21 Aug 2025 14:15

Tgt Ion:112 Resp: 721200

Ion	Ratio	Lower	Upper
112	100		
64	55.9	43.8	65.8
63	29.7	22.7	34.1



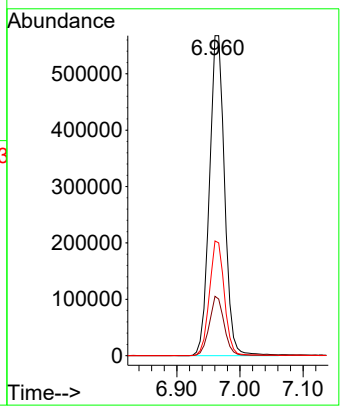


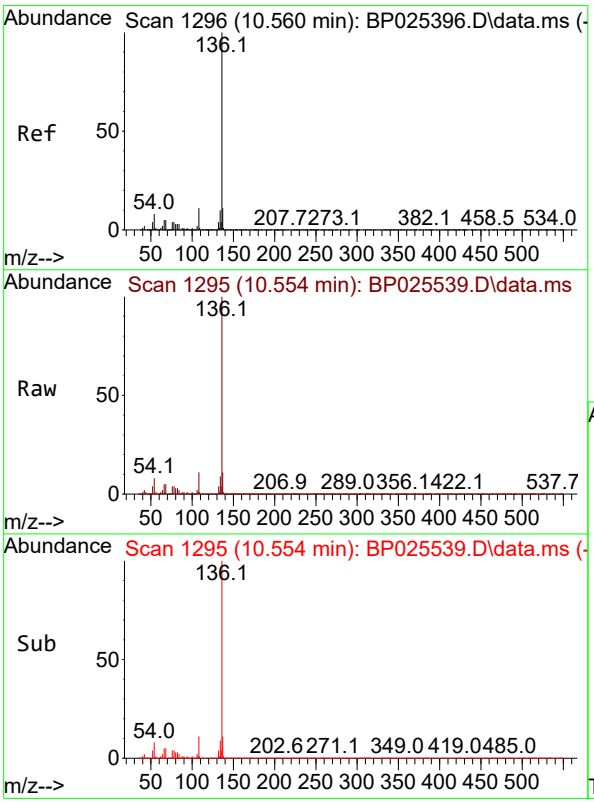
#7
Phenol-d6
Concen: 63.388 ng
RT: 6.960 min Scan# 6
Delta R.T. -0.006 min
Lab File: BP025539.D
Acq: 21 Aug 2025 14:15

Instrument :
BNA_P
ClientSampleId :
22BP-S

Tgt Ion: 99 Resp: 945732

Ion	Ratio	Lower	Upper
99	100		
42	18.6	13.7	20.5
71	35.9	28.2	42.4

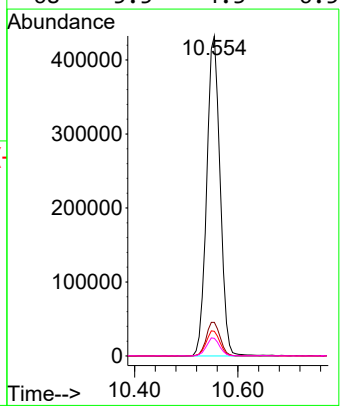


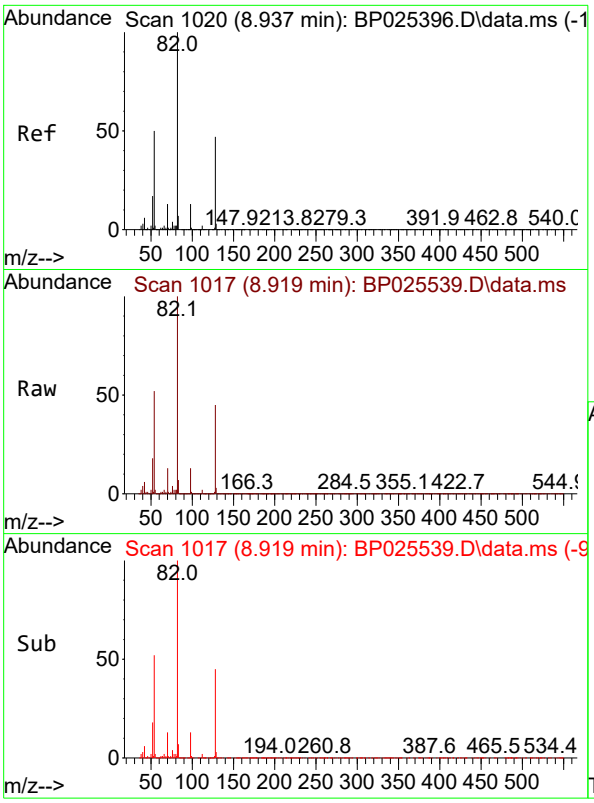


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.554 min Scan# 1295
Delta R.T. -0.006 min
Lab File: BP025539.D
Acq: 21 Aug 2025 14:15

Tgt Ion:136 Resp: 777260

Ion	Ratio	Lower	Upper
136	100		
137	10.5	9.2	13.8
54	7.7	6.0	9.0
68	5.5	4.3	6.5



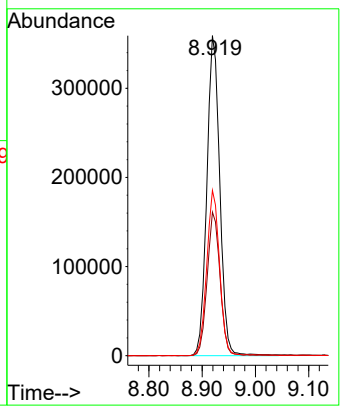


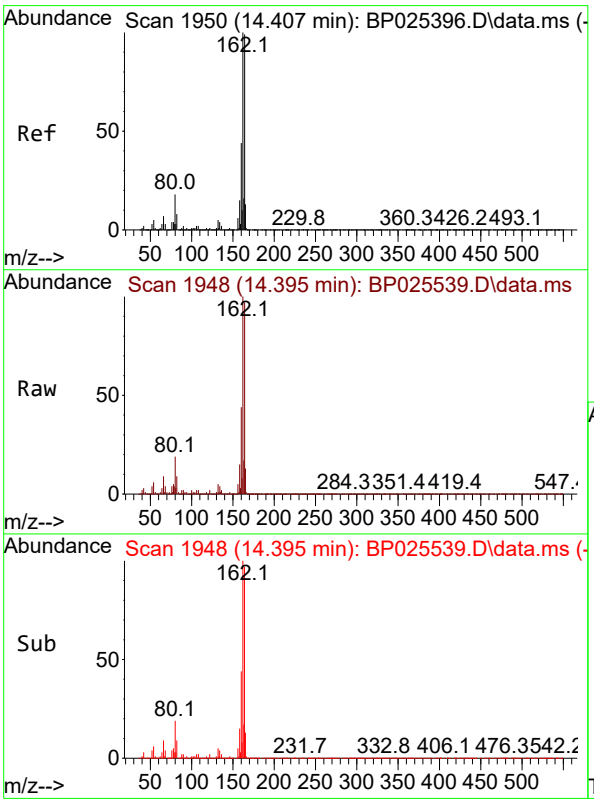
#23
Nitrobenzene-d5
Concen: 39.391 ng
RT: 8.919 min Scan# 1
Delta R.T. -0.018 min
Lab File: BP025539.D
Acq: 21 Aug 2025 14:15

Instrument :
BNA_P
ClientSampleId :
22BP-S

Tgt Ion: 82 Resp: 605248

Ion	Ratio	Lower	Upper
82	100		
128	44.8	37.7	56.5
54	51.7	39.8	59.6

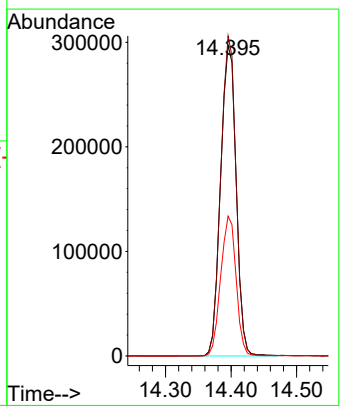


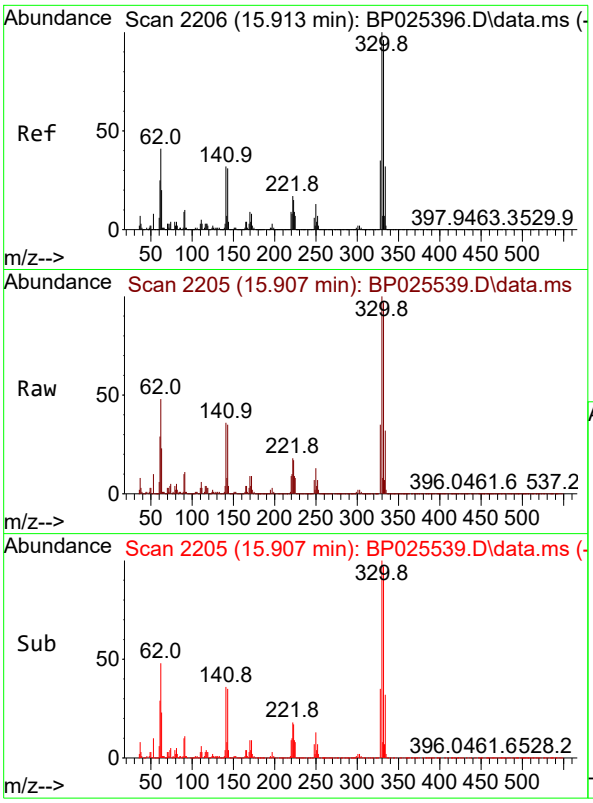


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.395 min Scan# 1948
Delta R.T. -0.012 min
Lab File: BP025539.D
Acq: 21 Aug 2025 14:15

Tgt Ion:164 Resp: 486743

Ion	Ratio	Lower	Upper
164	100		
162	102.9	81.0	121.6
160	45.0	35.4	53.2



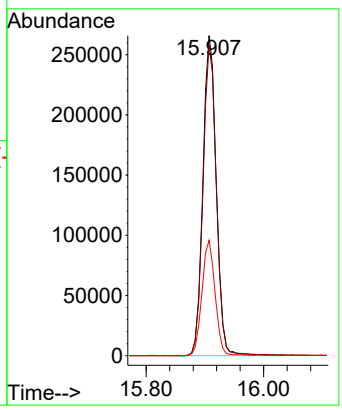


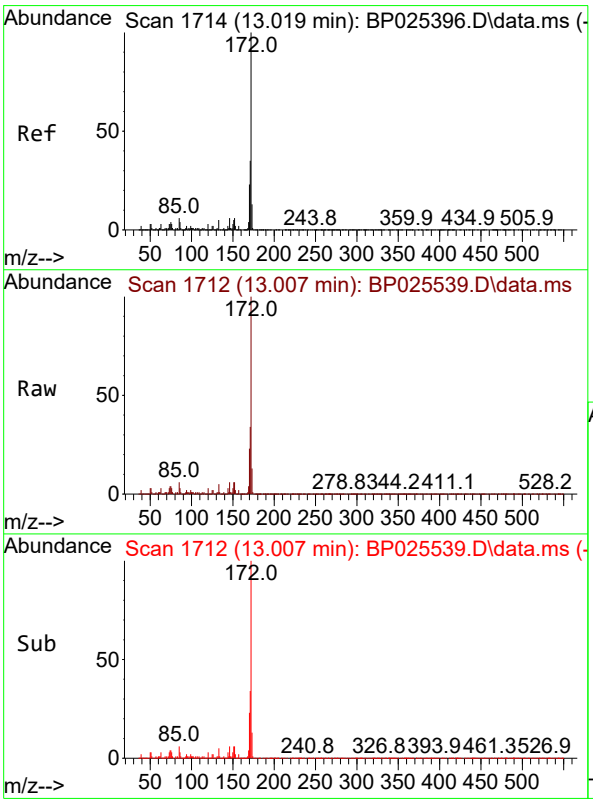
#42
2,4,6-Tribromophenol
Concen: 64.186 ng
RT: 15.907 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP025539.D
Acq: 21 Aug 2025 14:15

Instrument :
BNA_P
ClientSampleId :
22BP-S

Tgt Ion:330 Resp: 420522

Ion	Ratio	Lower	Upper
330	100		
332	96.6	77.3	115.9
141	35.5	26.6	39.8

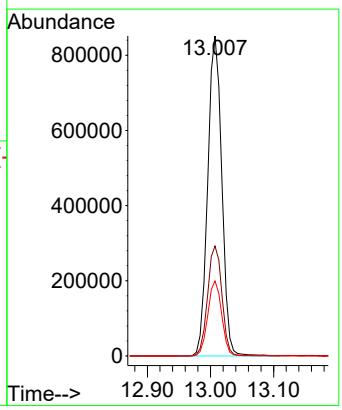


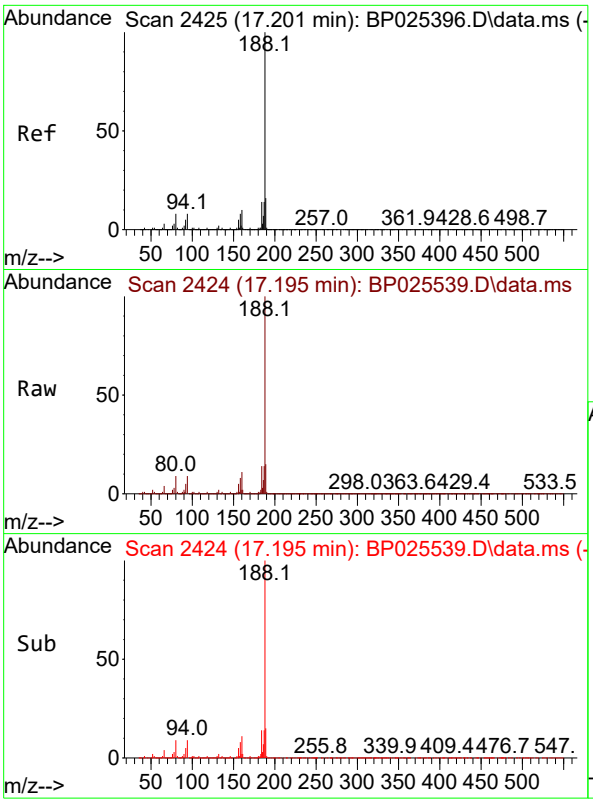


#45
2-Fluorobiphenyl
Concen: 36.920 ng
RT: 13.007 min Scan# 1712
Delta R.T. -0.012 min
Lab File: BP025539.D
Acq: 21 Aug 2025 14:15

Tgt Ion:172 Resp: 1314916

Ion	Ratio	Lower	Upper
172	100		
171	34.4	28.1	42.1
170	23.5	18.6	28.0



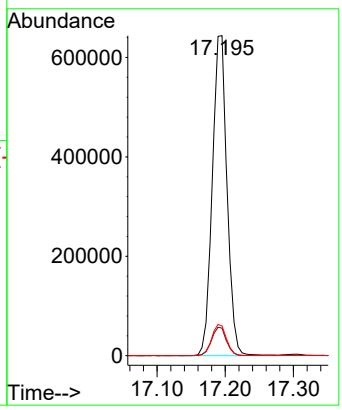


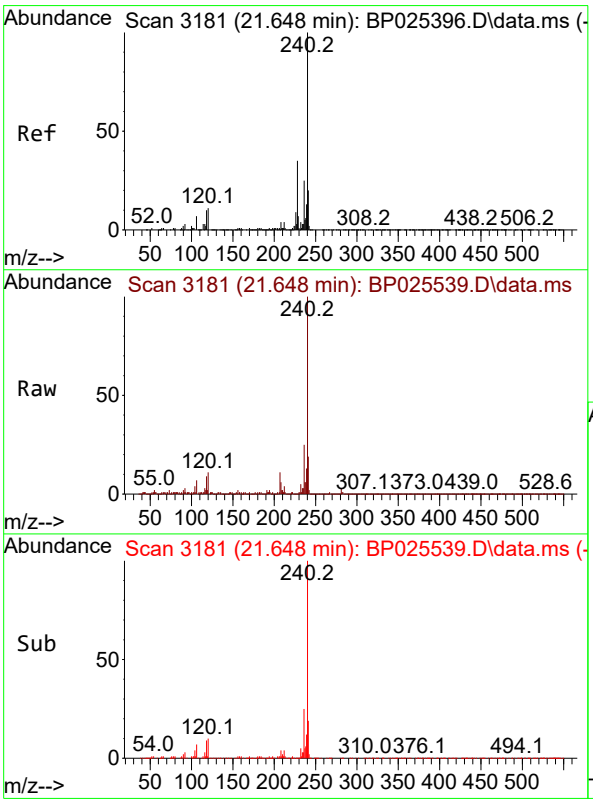
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.195 min Scan# 24
Delta R.T. -0.006 min
Lab File: BP025539.D
Acq: 21 Aug 2025 14:15

Instrument :
BNA_P
ClientSampleId :
22BP-S

Tgt Ion:188 Resp: 966815

Ion	Ratio	Lower	Upper
188	100		
94	8.6	6.6	10.0
80	9.3	6.7	10.1

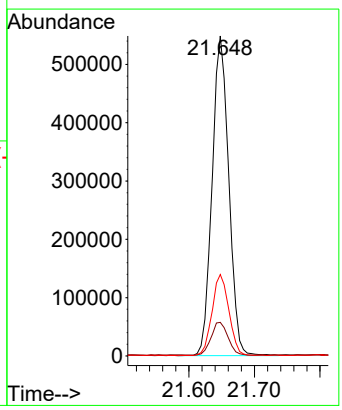


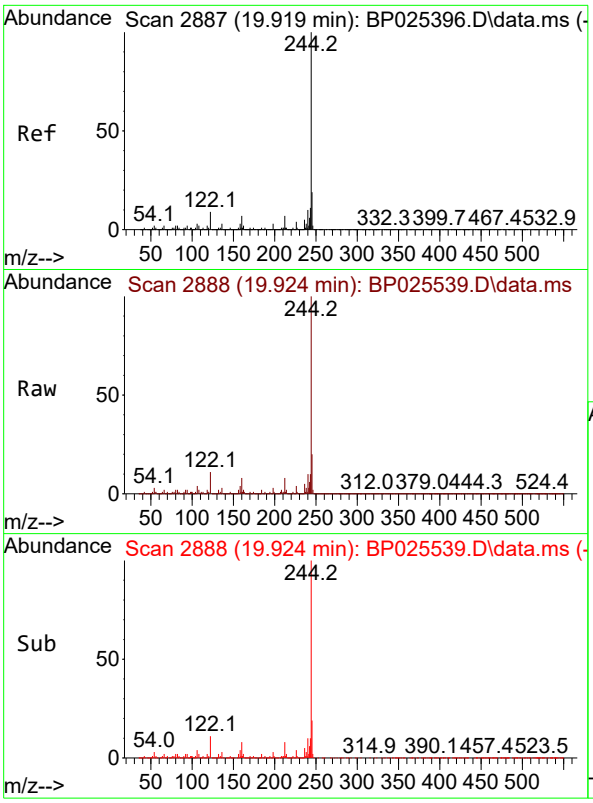


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.648 min Scan# 3181
Delta R.T. 0.000 min
Lab File: BP025539.D
Acq: 21 Aug 2025 14:15

Tgt Ion:240 Resp: 966494

Ion	Ratio	Lower	Upper
240	100		
120	10.5	8.9	13.3
236	25.4	19.8	29.8



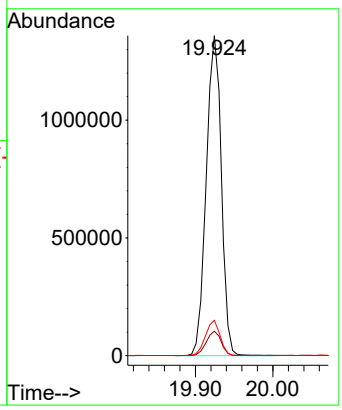


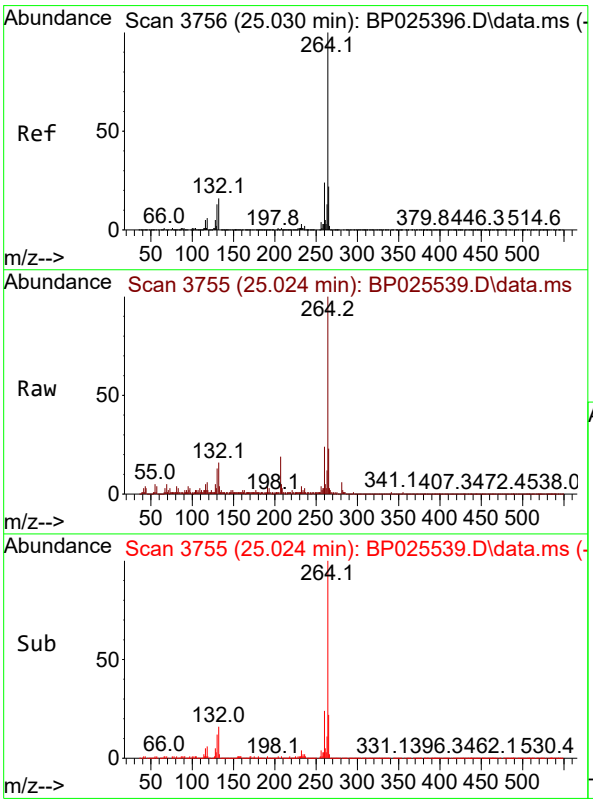
#79
Terphenyl-d14
Concen: 34.822 ng
RT: 19.924 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025539.D
Acq: 21 Aug 2025 14:15

Instrument :
BNA_P
ClientSampleId :
22BP-S

Tgt Ion:244 Resp: 1839522

Ion	Ratio	Lower	Upper
244	100		
212	7.7	5.8	8.6
122	11.1	7.4	11.2

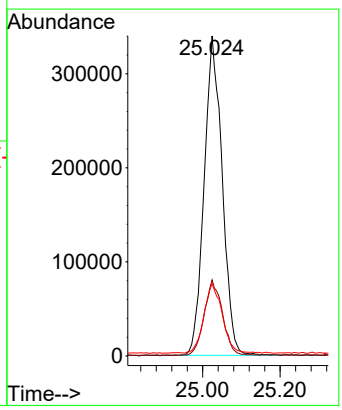




#86
Perylene-d12
Concen: 20.000 ng
RT: 25.024 min Scan# 3755
Delta R.T. -0.006 min
Lab File: BP025539.D
Acq: 21 Aug 2025 14:15

Tgt Ion:264 Resp: 1099088

Ion	Ratio	Lower	Upper
264	100		
260	23.8	19.3	28.9
265	22.6	17.4	26.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025539.D
Acq On : 21 Aug 2025 14:15
Operator : CG/JU
Sample : Q2819-04
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
22BP-S

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

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

Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BP025539.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.043	13	18	32	rVB	689115	959913	18.60%	2.692%
2	4.943	336	341	350	rVB	157106	226432	4.39%	0.635%
3	5.408	413	420	432	rBV	1613151	2494696	48.33%	6.995%
4	6.966	677	685	694	rBV	1589411	2666774	51.66%	7.478%
5	7.784	816	824	832	rBV	717293	1131461	21.92%	3.173%
6	8.919	1009	1017	1028	rBV	1060381	1792412	34.72%	5.026%
7	10.554	1285	1295	1307	rBV	872841	1586897	30.74%	4.450%
8	13.007	1704	1712	1721	rBV	2474557	3823048	74.06%	10.720%
9	14.395	1941	1948	1955	rBV	1277218	2074230	40.18%	5.816%
10	15.772	2176	2182	2189	rBV	521337	767250	14.86%	2.151%
11	15.907	2198	2205	2224	rBV	2054746	3297890	63.89%	9.247%
12	16.354	2276	2281	2288	rBV	96004	149571	2.90%	0.419%
13	17.195	2417	2424	2433	rBV	1582624	2398259	46.46%	6.725%
14	18.136	2579	2584	2591	rBV	523367	827085	16.02%	2.319%
15	18.577	2657	2659	2670	rVB7	90957	145928	2.83%	0.409%
16	18.830	2698	2702	2705	rBV5	95367	124867	2.42%	0.350%
17	19.130	2750	2753	2755	rBV3	52594	61662	1.19%	0.173%
18	19.183	2759	2762	2769	rVB9	84121	146905	2.85%	0.412%
19	19.307	2780	2783	2784	rBV3	50096	55243	1.07%	0.155%
20	19.360	2790	2792	2796	rVB4	59274	55000	1.07%	0.154%
21	19.466	2805	2810	2816	rBV	181437	284673	5.51%	0.798%
22	19.607	2832	2834	2836	rBV2	53273	56413	1.09%	0.158%
23	19.636	2836	2839	2840	rVV3	80315	71601	1.39%	0.201%
24	19.789	2863	2865	2869	rBV4	88219	122111	2.37%	0.342%
25	19.830	2869	2872	2876	rVB2	64705	95271	1.85%	0.267%
26	19.924	2883	2888	2895	rVB	3790336	5161874	100.00%	14.474%
27	20.042	2905	2908	2910	rBV3	123545	130758	2.53%	0.367%
28	20.477	2980	2982	2984	rBV2	87420	80591	1.56%	0.226%
29	21.001	3069	3071	3073	rBV3	90770	109914	2.13%	0.308%
30	21.277	3115	3118	3122	rBV5	161179	292137	5.66%	0.819%
31	21.324	3122	3126	3131	rVB2	348188	625849	12.12%	1.755%
32	21.648	3176	3181	3188	rVB	1417067	2490331	48.24%	6.983%
33	25.024	3749	3755	3756	rBV	852574	1356383	26.28%	3.803%

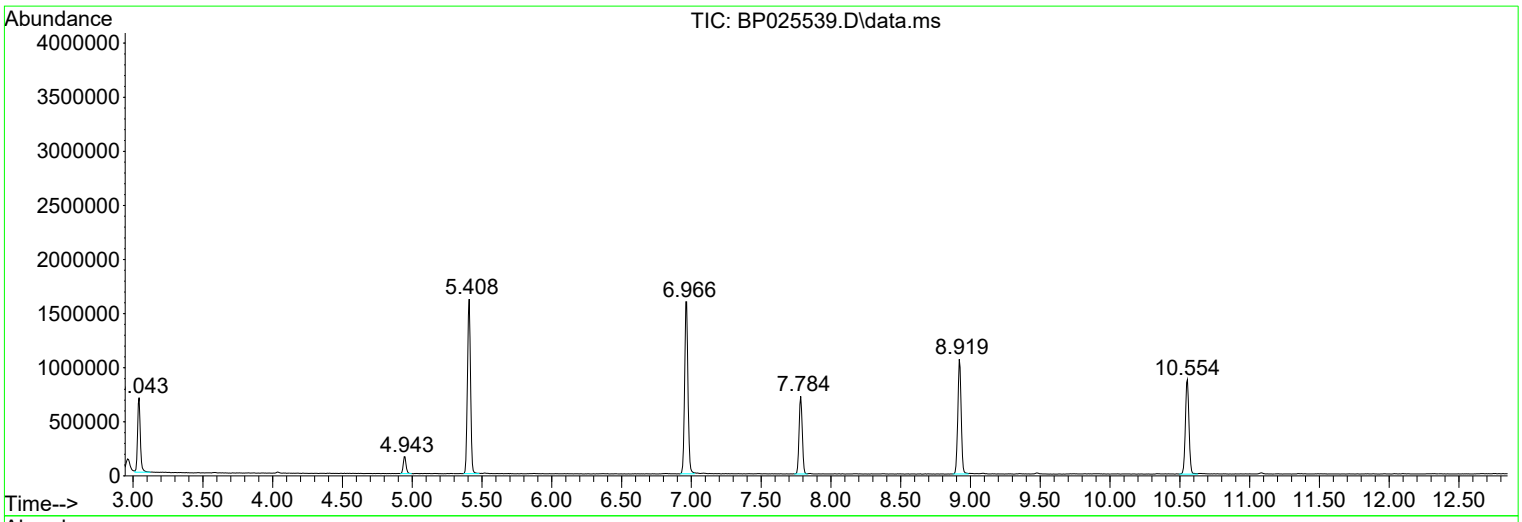
Sum of corrected areas: 35663429

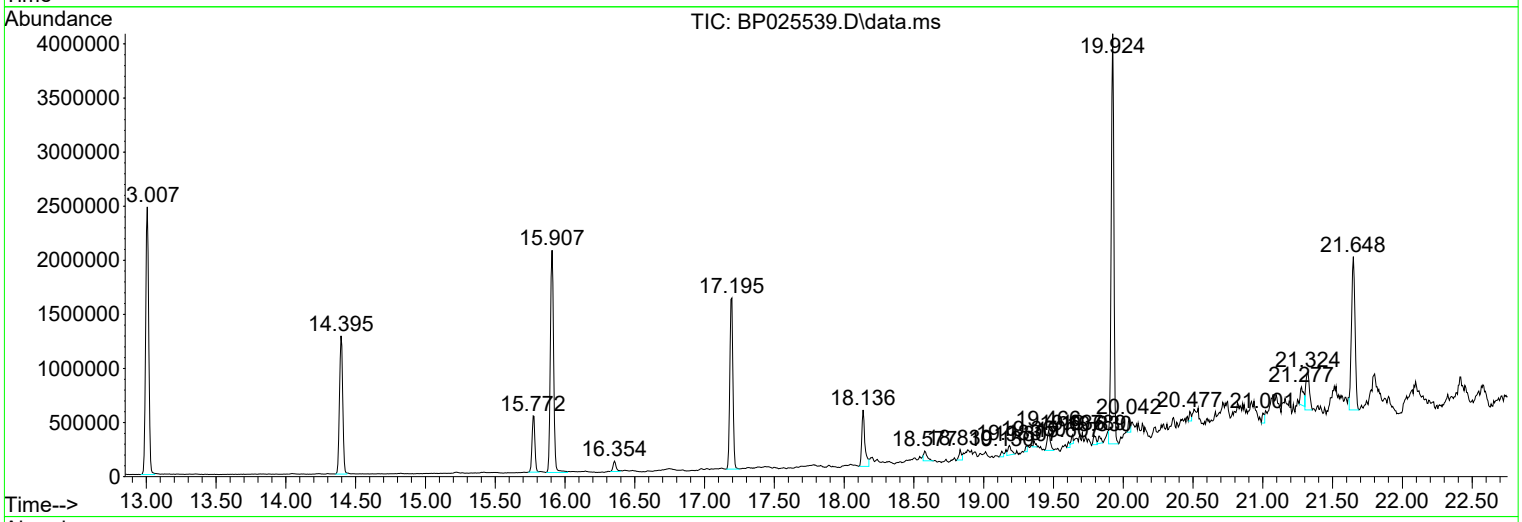
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025539.D
Acq On : 21 Aug 2025 14:15
Operator : CG/JU
Sample : Q2819-04
Misc :
ALS Vial : 29 Sample Multiplier: 1

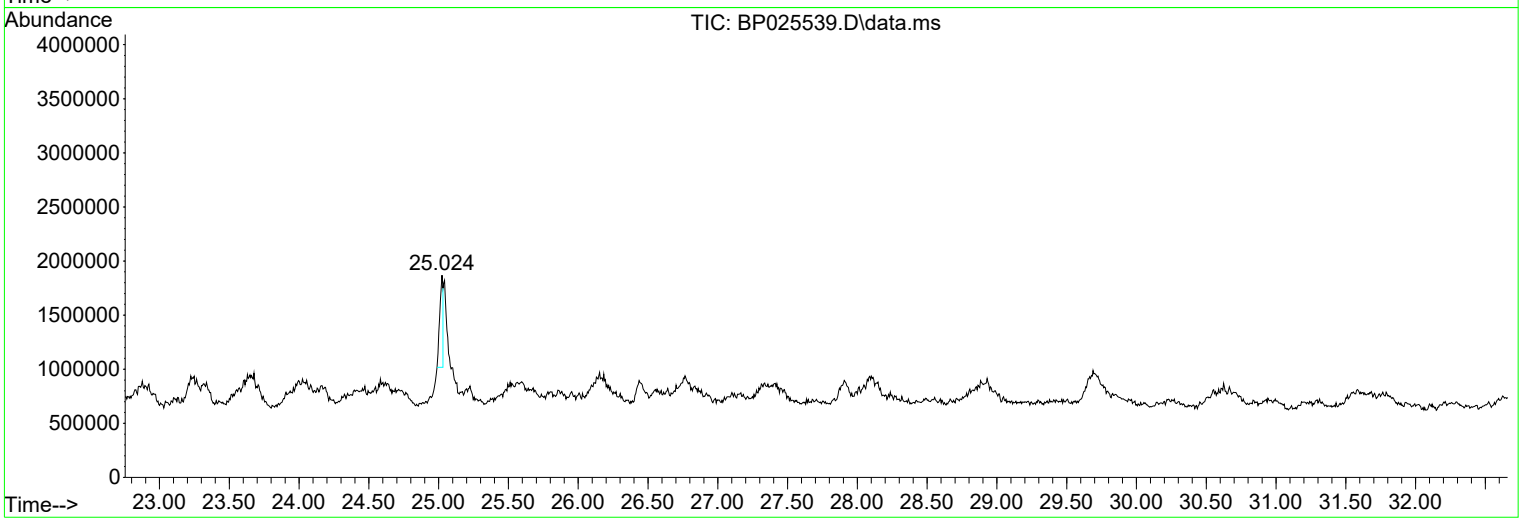
Instrument :
BNA_P
ClientSampleId :
22BP-S

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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







Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025539.D
Acq On : 21 Aug 2025 14:15
Operator : CG/JU
Sample : Q2819-04
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
22BP-S

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

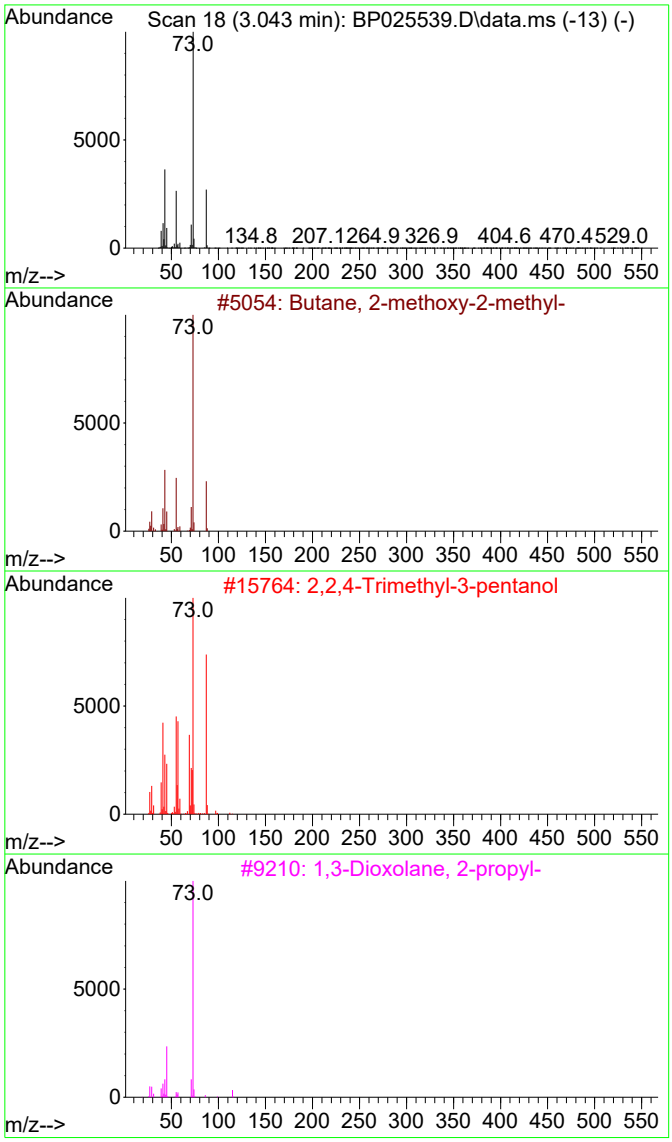
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

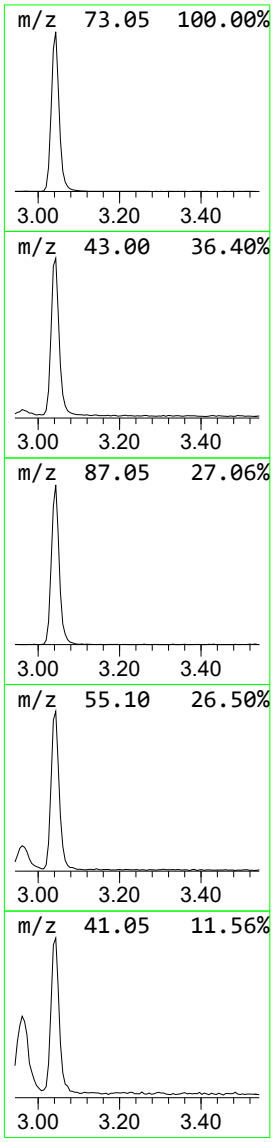
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.043	16.97 ng	959913	1,4-Dichlorobenzene-d4	7.784

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	1,3-Dioxolane, 2-propyl-	116	C6H12O2	003390-13-4	23
4	Acetamide, N-ethyl-	87	C4H9NO	000625-50-3	22
5	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	12





Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025539.D
Acq On : 21 Aug 2025 14:15
Operator : CG/JU
Sample : Q2819-04
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
22BP-S

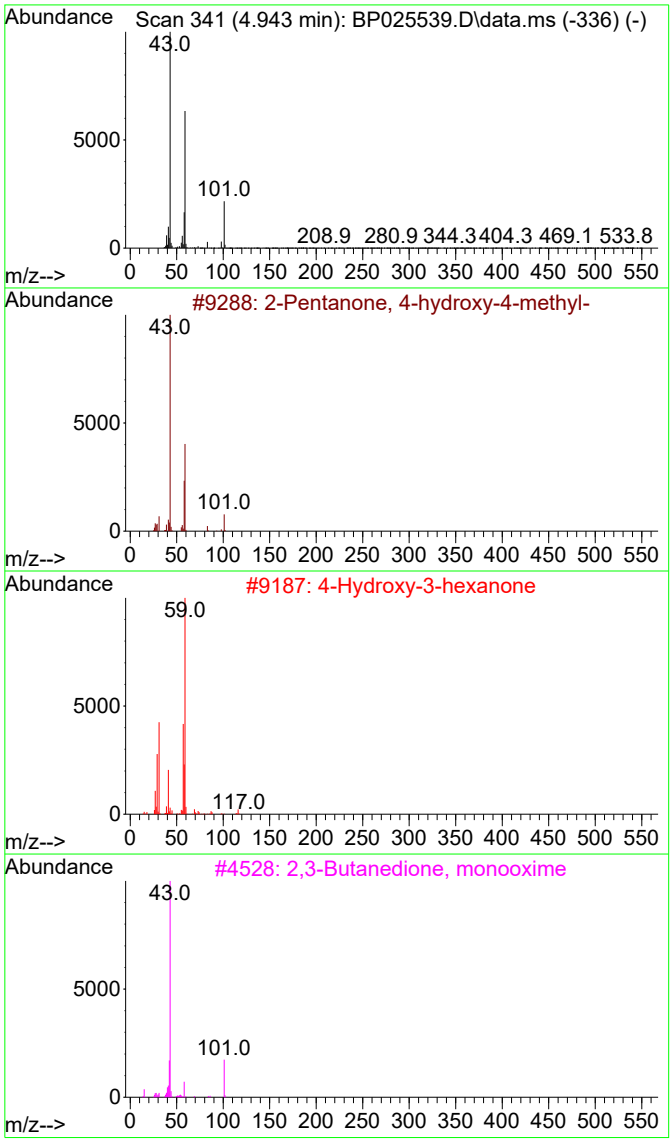
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

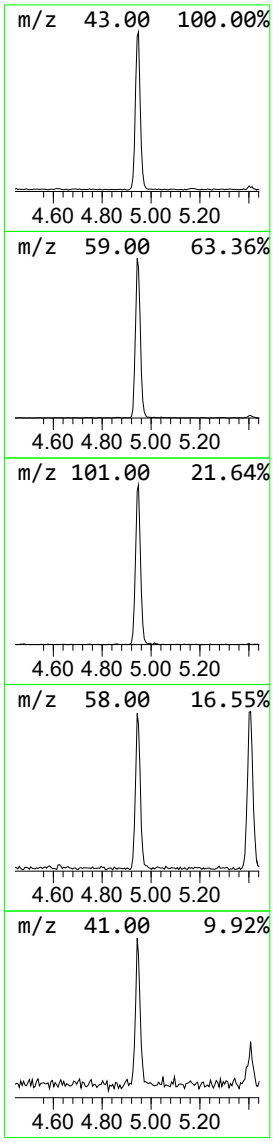
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 2 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.943	4.00 ng	226432	1,4-Dichlorobenzene-d4	7.784

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	56
2	4-Hydroxy-3-hexanone	116	C6H12O2	004984-85-4	17
3	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	12
4	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	10
5	Morpholine, 4-methyl-	101	C5H11NO	000109-02-4	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025539.D
Acq On : 21 Aug 2025 14:15
Operator : CG/JU
Sample : Q2819-04
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
22BP-S

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

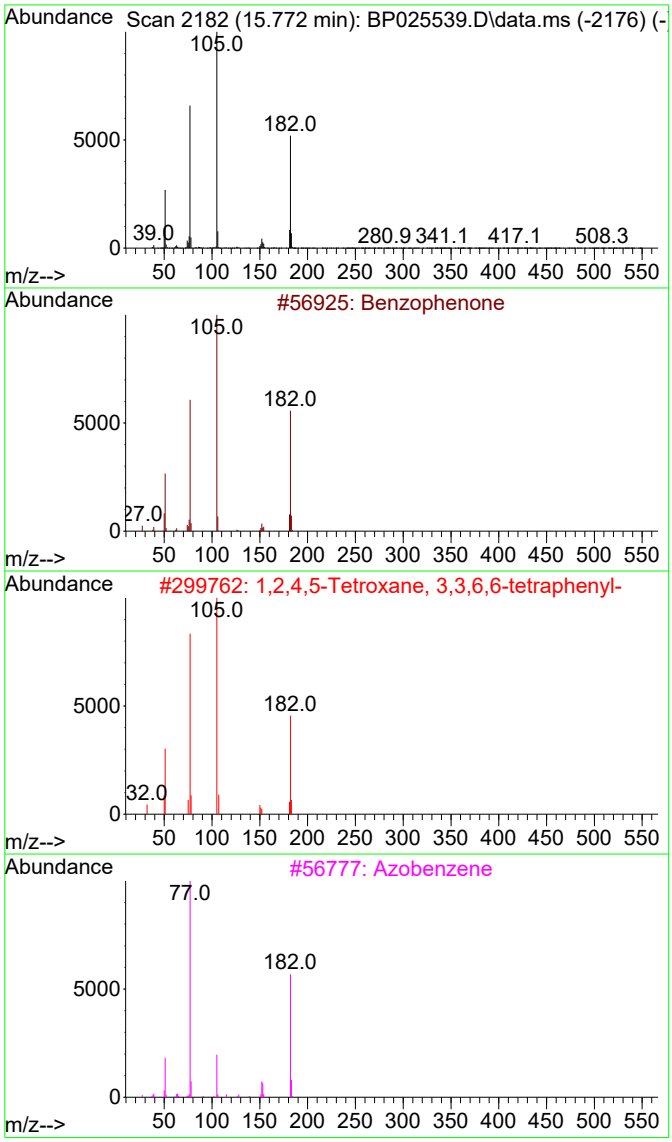
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

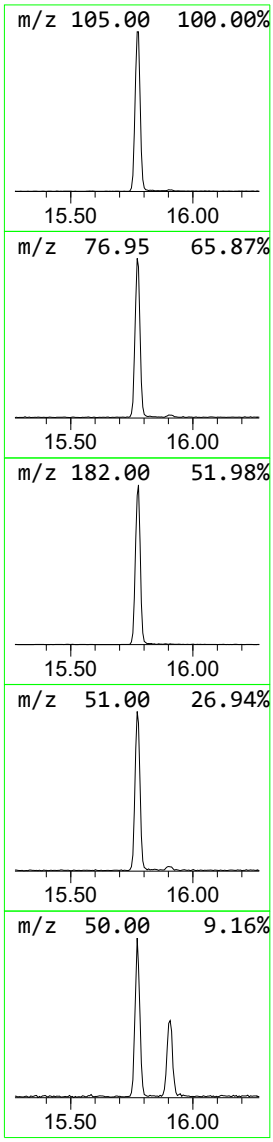
****

Peak Number 3 Benzophenone Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.772	7.40 ng	767250	Acenaphthene-d10	14.395

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	64
3	Azobenzene	182	C12H10N2	000103-33-3	64
4	Azobenzene, (E)-	182	C12H10N2	017082-12-1	42
5	Methanone, phenyl-2-pyridinyl-	183	C12H9NO	000091-02-1	40





Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025539.D
Acq On : 21 Aug 2025 14:15
Operator : CG/JU
Sample : Q2819-04
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
22BP-S

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

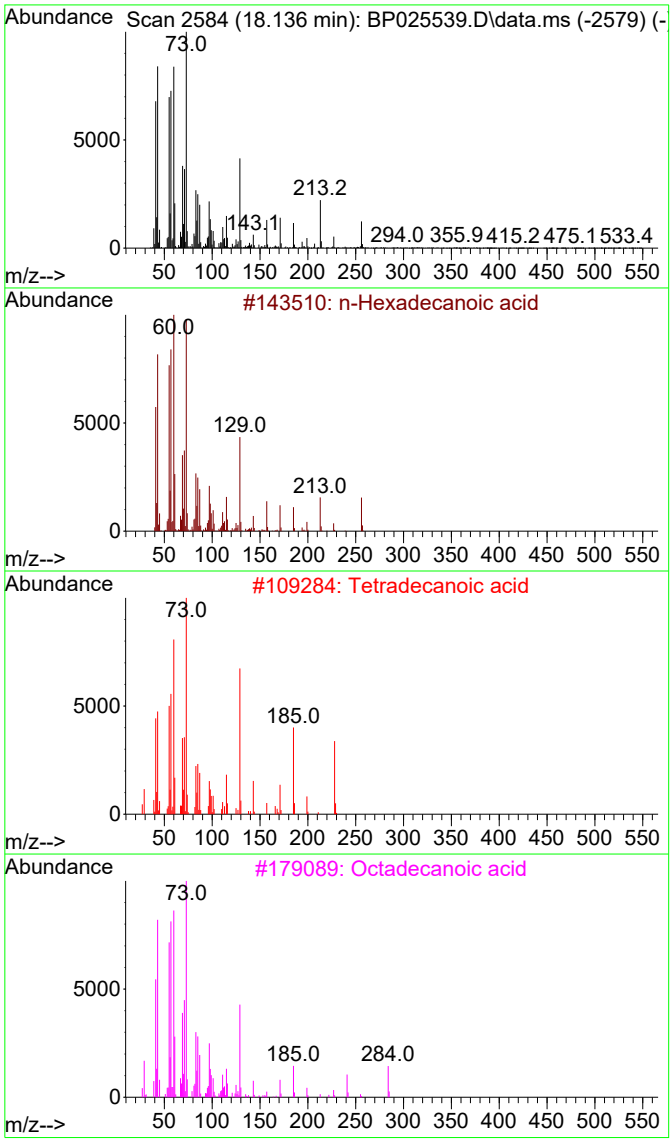
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

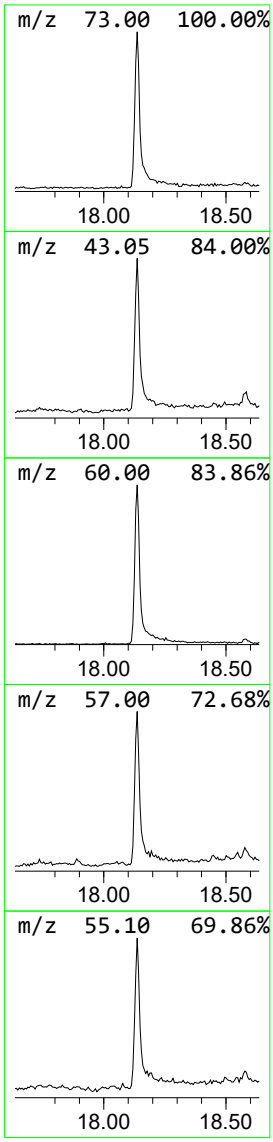
****

Peak Number 4 n-Hexadecanoic acid Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.136	6.90 ng	827085	Phenanthrene-d10	17.195

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	91
3	Octadecanoic acid	284	C18H36O2	000057-11-4	91
4	Pentadecanoic acid	242	C15H30O2	001002-84-2	91
5	Tridecanoic acid	214	C13H26O2	000638-53-9	81





Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025539.D
Acq On : 21 Aug 2025 14:15
Operator : CG/JU
Sample : Q2819-04
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
22BP-S

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

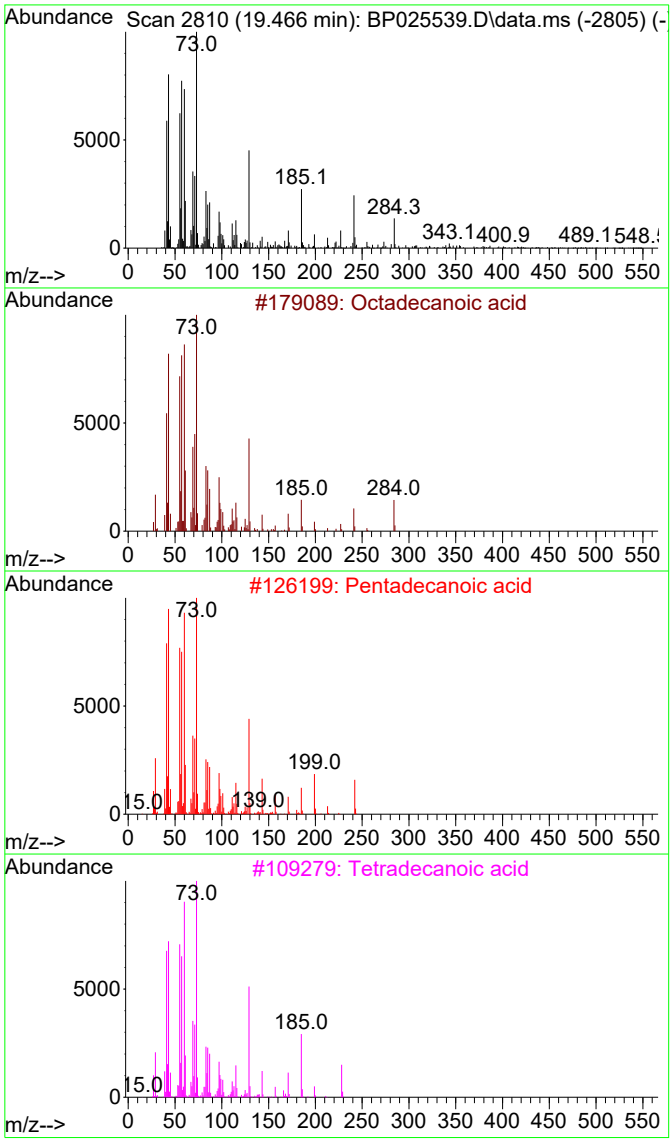
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

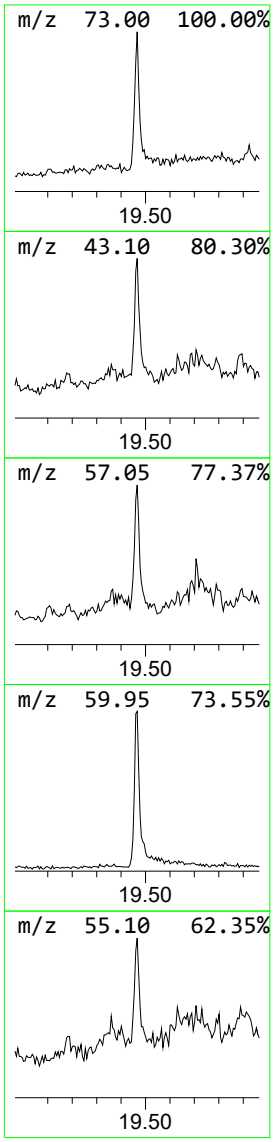
****

Peak Number 5 Octadecanoic acid Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.466	2.29 ng	284673	Chrysene-d12	21.648

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanoic acid	284	C18H36O2	000057-11-4	97
2	Pentadecanoic acid	242	C15H30O2	001002-84-2	93
3	Tetradecanoic acid	228	C14H28O2	000544-63-8	74
4	n-Decanoic acid	172	C10H20O2	000334-48-5	64
5	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	64





Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025539.D
Acq On : 21 Aug 2025 14:15
Operator : CG/JU
Sample : Q2819-04
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
22BP-S

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

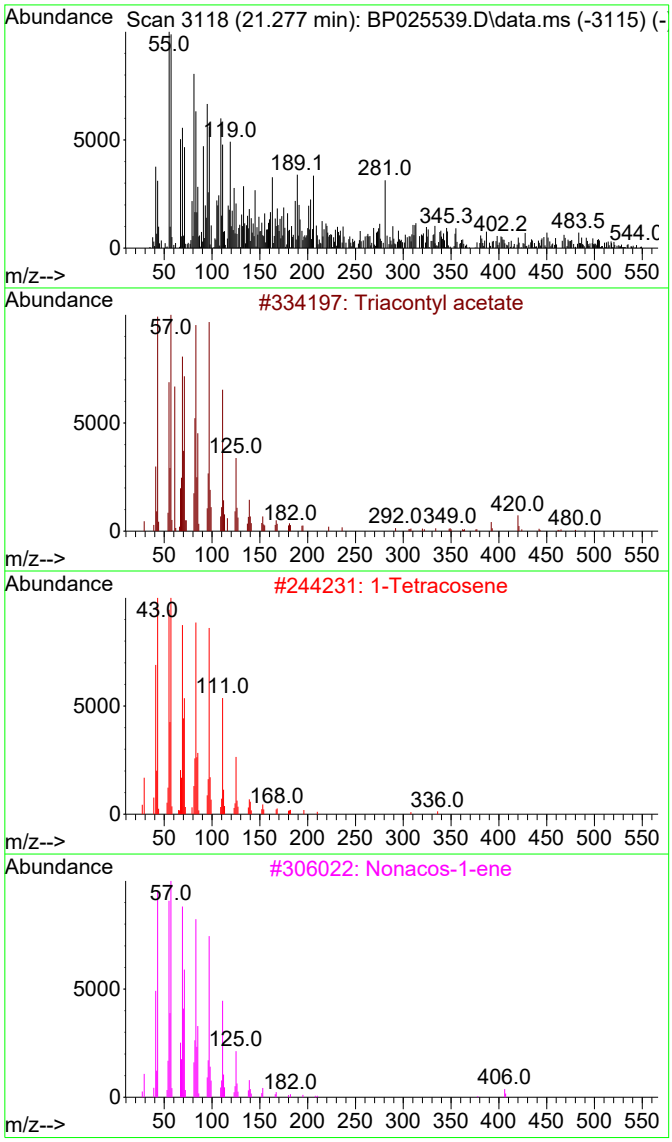
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

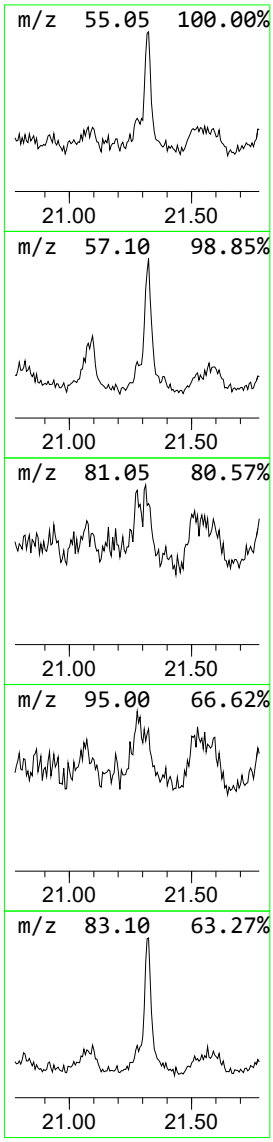
****

Peak Number 6 Triacontyl acetate Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.277	2.35 ng	292137	Chrysene-d12	21.648

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Triacontyl acetate	480	C32H64O2	041755-58-2	66
2	1-Tetracosene	336	C24H48	010192-32-2	45
3	Nonacos-1-ene	406	C29H58	018835-35-3	45
4	Cyclotriacontane	420	C30H60	000297-35-8	45
5	(+)-(Z)-Longipinane	206	C15H26	1000156-12-3	35





Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025539.D
Acq On : 21 Aug 2025 14:15
Operator : CG/JU
Sample : Q2819-04
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
22BP-S

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

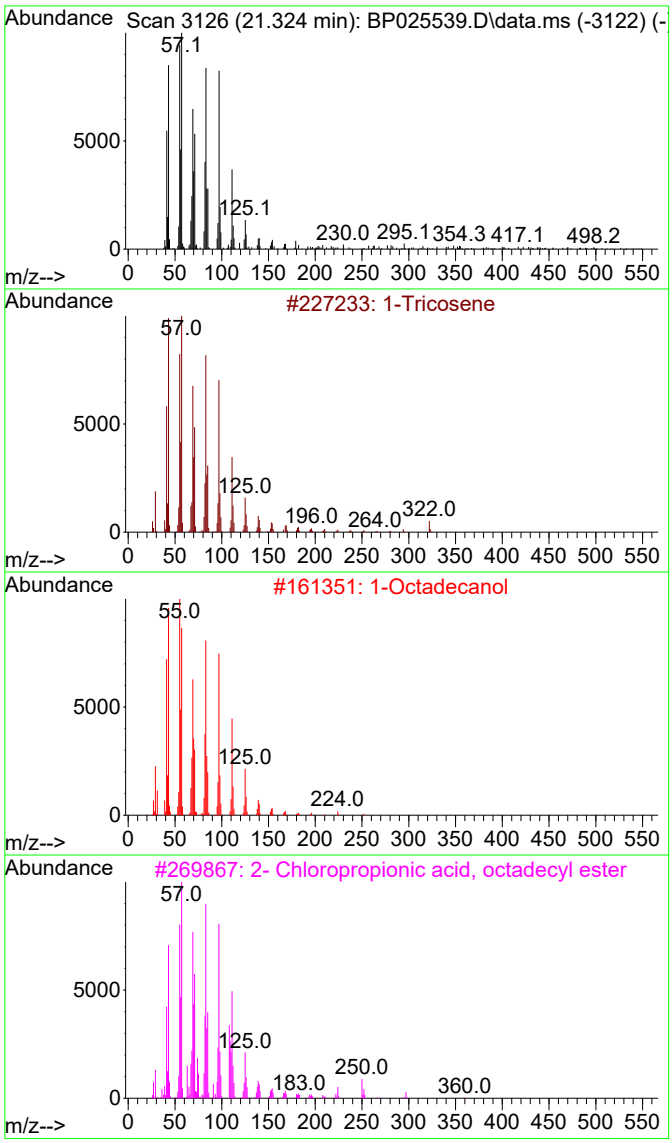
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

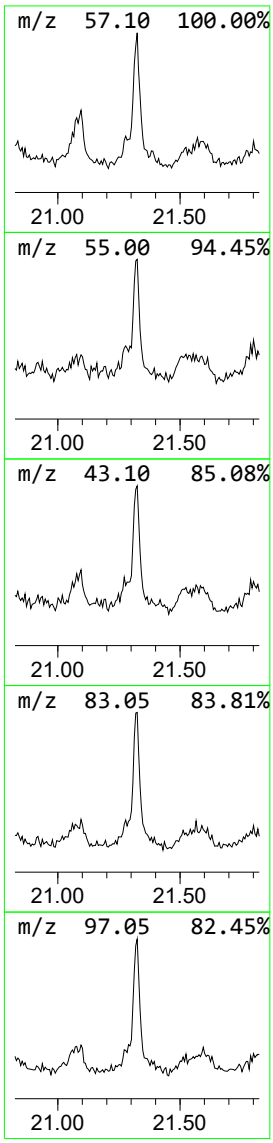
****

Peak Number 7 1-Tricosene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.324	5.03 ng	625849	Chrysene-d12	21.648

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Tricosene	322	C23H46	018835-32-0	95
2	1-Octadecanol	270	C18H38O	000112-92-5	90
3	2- Chloropropionic acid, octadec...	360	C21H41ClO2	088104-31-8	89
4	Pentafluoropropionic acid, tetra...	360	C17H29F5O2	006222-06-6	87
5	n-Nonadecanol-1	284	C19H40O	001454-84-8	87





Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025539.D
Acq On : 21 Aug 2025 14:15
Operator : CG/JU
Sample : Q2819-04
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
22BP-S

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.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...	3.043	17.0	ng	959913	1	7.784	1131460	20.0
2-Pentanone, 4-...	4.943	4.0	ng	226432	1	7.784	1131460	20.0
Benzophenone	15.772	7.4	ng	767250	3	14.395	2074230	20.0
n-Hexadecanoic ...	18.136	6.9	ng	827085	4	17.195	2398260	20.0
Octadecanoic acid	19.466	2.3	ng	284673	5	21.648	2490330	20.0
Triacontyl acetate	21.277	2.4	ng	292137	5	21.648	2490330	20.0
1-Tricosene	21.324	5.0	ng	625849	5	21.648	2490330	20.0

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/04/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	22BP-SRE	SDG No.:	Q2819
Lab Sample ID:	Q2819-04RE	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	88.1
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
BF143538.D	1	08/14/25 08:40	08/21/25 19:03	PB169242

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
100-52-7	Benzaldehyde	310	U	180	310	370	ug/Kg
108-95-2	Phenol	150	U	25.1	150	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	150	U	27.6	150	190	ug/Kg
95-57-8	2-Chlorophenol	150	U	27.7	150	190	ug/Kg
95-48-7	2-Methylphenol	150	U	33.9	150	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	150	U	42.6	150	190	ug/Kg
98-86-2	Acetophenone	150	U	33.5	150	190	ug/Kg
65794-96-9	3+4-Methylphenols	310	U	46.6	310	370	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	90.8	U	53.8	90.8	90.8	ug/Kg
67-72-1	Hexachloroethane	150	U	20.0	150	190	ug/Kg
98-95-3	Nitrobenzene	150	U	20.8	150	190	ug/Kg
78-59-1	Isophorone	150	U	37.2	150	190	ug/Kg
88-75-5	2-Nitrophenol	150	U	66.0	150	190	ug/Kg
105-67-9	2,4-Dimethylphenol	150	U	73.5	150	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	150	U	34.9	150	190	ug/Kg
120-83-2	2,4-Dichlorophenol	150	U	32.1	150	190	ug/Kg
91-20-3	Naphthalene	150	U	25.8	150	190	ug/Kg
106-47-8	4-Chloroaniline	150	U	40.2	150	190	ug/Kg
87-68-3	Hexachlorobutadiene	150	U	28.7	150	190	ug/Kg
105-60-2	Caprolactam	310	U	59.1	310	370	ug/Kg
59-50-7	4-Chloro-3-methylphenol	150	U	32.6	150	190	ug/Kg
91-57-6	2-Methylnaphthalene	150	U	29.0	150	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	310	U	130	310	370	ug/Kg
88-06-2	2,4,6-Trichlorophenol	150	U	22.5	150	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	150	U	33.0	150	190	ug/Kg
92-52-4	1,1-Biphenyl	150	U	24.7	150	190	ug/Kg
91-58-7	2-Chloronaphthalene	150	U	25.5	150	190	ug/Kg
88-74-4	2-Nitroaniline	150	U	54.6	150	190	ug/Kg
131-11-3	Dimethylphthalate	150	U	30.8	150	190	ug/Kg

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/04/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	22BP-SRE	SDG No.:	Q2819
Lab Sample ID:	Q2819-04RE	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	88.1
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
BF143538.D	1	08/14/25 08:40	08/21/25 19:03	PB169242

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	150	U	32.8	150	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	150	U	38.1	150	190	ug/Kg
99-09-2	3-Nitroaniline	150	U	52.2	150	190	ug/Kg
83-32-9	Acenaphthene	150	U	24.2	150	190	ug/Kg
51-28-5	2,4-Dinitrophenol	310	U	260	310	370	ug/Kg
100-02-7	4-Nitrophenol	310	U	120	310	370	ug/Kg
132-64-9	Dibenzofuran	150	U	25.8	150	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	150	U	56.8	150	190	ug/Kg
84-66-2	Diethylphthalate	150	U	32.1	150	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	150	U	30.3	150	190	ug/Kg
86-73-7	Fluorene	150	U	28.7	150	190	ug/Kg
100-01-6	4-Nitroaniline	150	U	72.8	150	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	310	U	120	310	370	ug/Kg
86-30-6	n-Nitrosodiphenylamine	150	U	37.3	150	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	150	U	31.5	150	190	ug/Kg
118-74-1	Hexachlorobenzene	150	U	28.7	150	190	ug/Kg
1912-24-9	Atrazine	150	U	38.6	150	190	ug/Kg
87-86-5	Pentachlorophenol	310	U	58.2	310	370	ug/Kg
85-01-8	Phenanthrene	150	U	23.7	150	190	ug/Kg
120-12-7	Anthracene	150	U	37.8	150	190	ug/Kg
86-74-8	Carbazole	150	U	35.4	150	190	ug/Kg
84-74-2	Di-n-butylphthalate	150	U	54.4	150	190	ug/Kg
206-44-0	Fluoranthene	150	U	34.0	150	190	ug/Kg
129-00-0	Pyrene	150	U	40.8	150	190	ug/Kg
85-68-7	Butylbenzylphthalate	150	U	81.0	150	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	310	U	41.6	310	370	ug/Kg
56-55-3	Benzo(a)anthracene	150	U	26.1	150	190	ug/Kg
218-01-9	Chrysene	150	U	22.6	150	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	150	U	67.2	150	190	ug/Kg
117-84-0	Di-n-octyl phthalate	310	U	98.5	310	370	ug/Kg
205-99-2	Benzo(b)fluoranthene	150	U	21.6	150	190	ug/Kg

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/04/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	22BP-SRE	SDG No.:	Q2819
Lab Sample ID:	Q2819-04RE	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	88.1
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
BF143538.D	1	08/14/25 08:40	08/21/25 19:03	PB169242

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	150	U	25.4	150	190	ug/Kg
50-32-8	Benzo(a)pyrene	150	U	33.5	150	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	150	U	33.0	150	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	150	U	31.1	150	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	150	U	29.2	150	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	150	U	29.0	150	190	ug/Kg
123-91-1	1,4-Dioxane	150	UQ	51.3	150	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	150	U	31.1	150	190	ug/Kg
SURROGATES							
367-12-4	2-Fluorophenol	65.0		35 - 115		43%	SPK: 150
13127-88-3	Phenol-d6	65.8		34 - 127		44%	SPK: 150
4165-60-0	Nitrobenzene-d5	46.8		37 - 122		47%	SPK: 100
321-60-8	2-Fluorobiphenyl	48.0		44 - 115		48%	SPK: 100
118-79-6	2,4,6-Tribromophenol	56.6	*	39 - 132		38%	SPK: 150
1718-51-0	Terphenyl-d14	32.3	*	54 - 127		32%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	111000	6.928				
1146-65-2	Naphthalene-d8	414000	8.204				
15067-26-2	Acenaphthene-d10	203000	9.963				
1517-22-2	Phenanthrene-d10	266000	11.451				
1719-03-5	Chrysene-d12	227000	14.092				
1520-96-3	Perylene-d12	248000	15.592				

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\BF082125\
Data File : BF143538.D
Acq On : 21 Aug 2025 19:03
Operator : RC/JU
Sample : Q2819-04RE
Misc :
ALS Vial : 45 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
22BP-SRE

Quant Time: Aug 22 01:02:05 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 21 06:12:21 2025
Response via : Initial Calibration

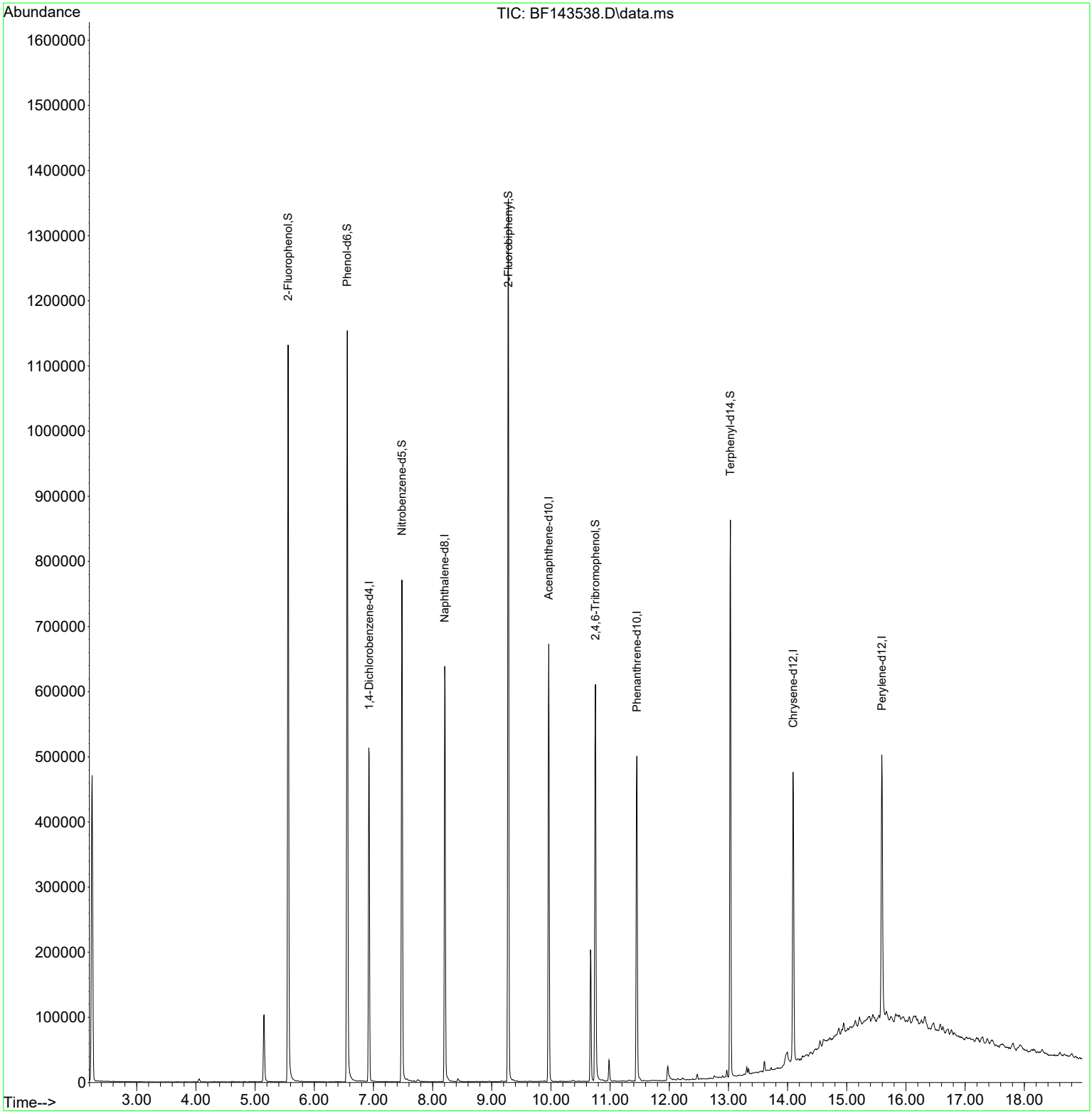
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.928	152	111164	20.000	ng	0.00
21) Naphthalene-d8	8.204	136	413757	20.000	ng	0.00
39) Acenaphthene-d10	9.963	164	203054	20.000	ng	0.00
64) Phenanthrene-d10	11.451	188	265665	20.000	ng	0.00
76) Chrysene-d12	14.092	240	226574	20.000	ng	-0.01
86) Perylene-d12	15.592	264	247509	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.557	112	413838	65.006	ng	0.00
7) Phenol-d6	6.557	99	516879	65.771	ng	-0.02
23) Nitrobenzene-d5	7.481	82	332143	46.844	ng	-0.02
42) 2,4,6-Tribromophenol	10.751	330	106892	56.553	ng	-0.01
45) 2-Fluorobiphenyl	9.281	172	590027	48.023	ng	0.00
79) Terphenyl-d14	13.033	244	419964	32.345	ng	0.00
Target Compounds						Qvalue

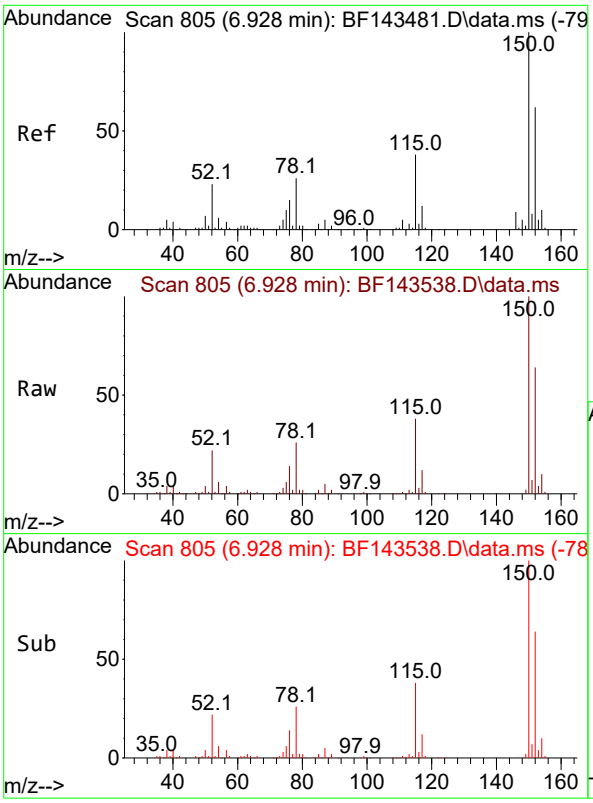
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
Data File : BF143538.D
Acq On : 21 Aug 2025 19:03
Operator : RC/JU
Sample : Q2819-04RE
Misc :
ALS Vial : 45 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
22BP-SRE

Quant Time: Aug 22 01:02:05 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 21 06:12:21 2025
Response via : Initial Calibration



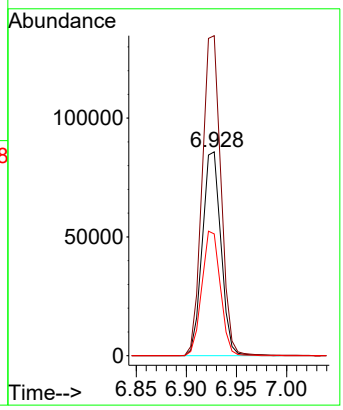


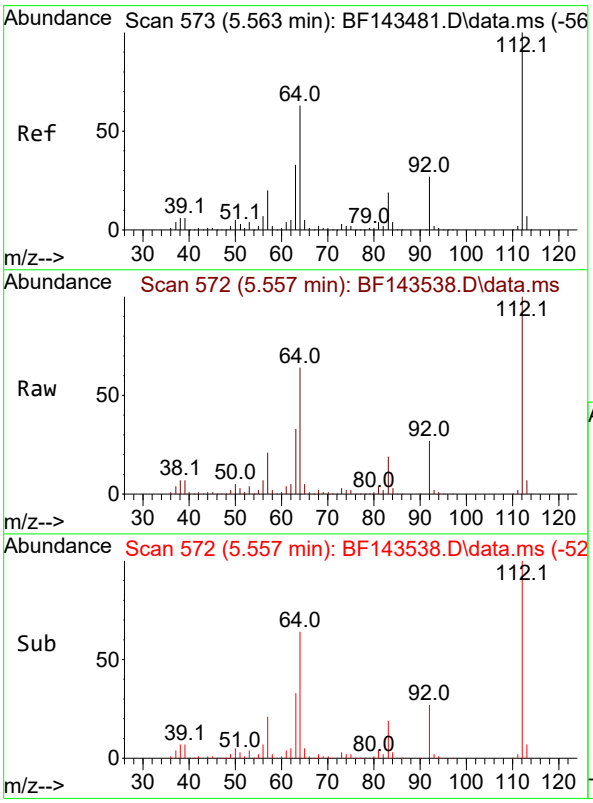
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.928 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF143538.D
Acq: 21 Aug 2025 19:03

Instrument :
BNA_F
ClientSampleId :
22BP-SRE

Tgt Ion:152 Resp: 111164

Ion	Ratio	Lower	Upper
152	100		
150	156.9	128.9	193.3
115	59.7	49.2	73.8

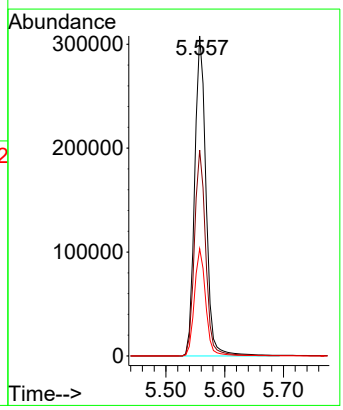


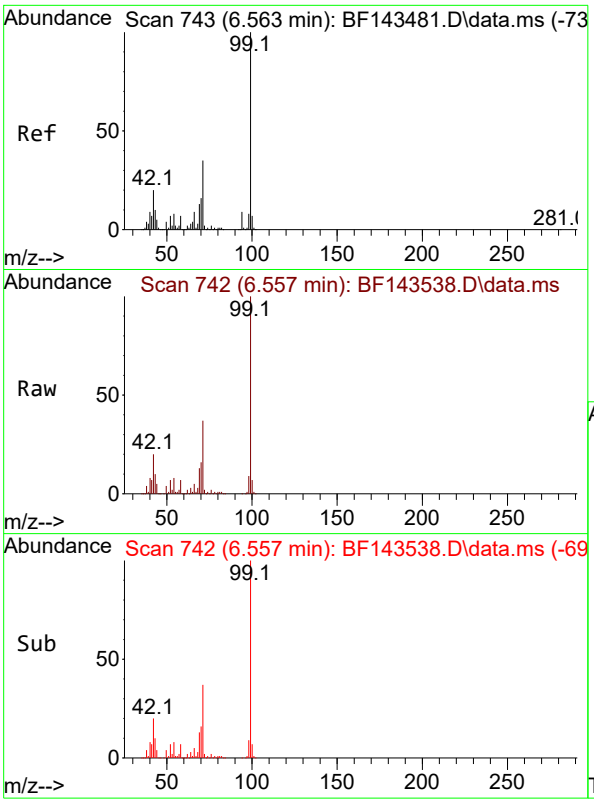


#5
2-Fluorophenol
Concen: 65.006 ng
RT: 5.557 min Scan# 572
Delta R.T. -0.006 min
Lab File: BF143538.D
Acq: 21 Aug 2025 19:03

Tgt Ion:112 Resp: 413838

Ion	Ratio	Lower	Upper
112	100		
64	64.4	50.4	75.6
63	33.5	26.4	39.6



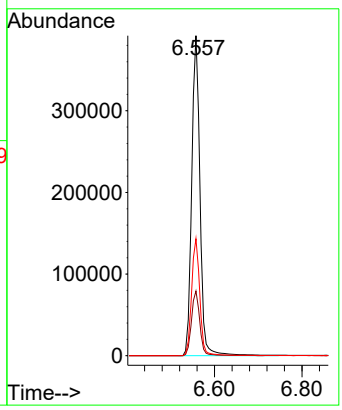


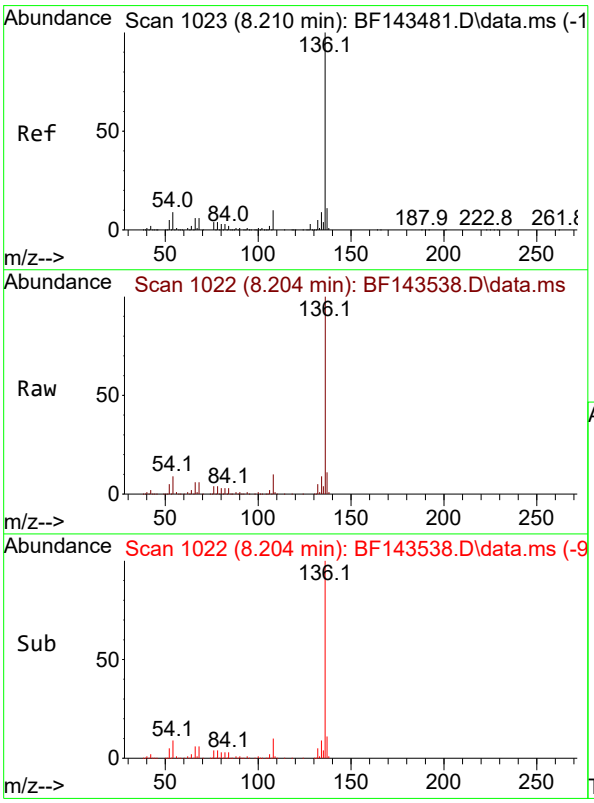
#7
Phenol-d6
Concen: 65.771 ng
RT: 6.557 min Scan# 7
Delta R.T. -0.018 min
Lab File: BF143538.D
Acq: 21 Aug 2025 19:03

Instrument :
BNA_F
ClientSampleId :
22BP-SRE

Tgt Ion: 99 Resp: 516879

Ion	Ratio	Lower	Upper
99	100		
42	20.2	16.3	24.5
71	36.6	28.2	42.2

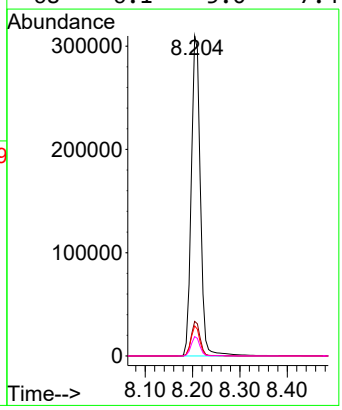


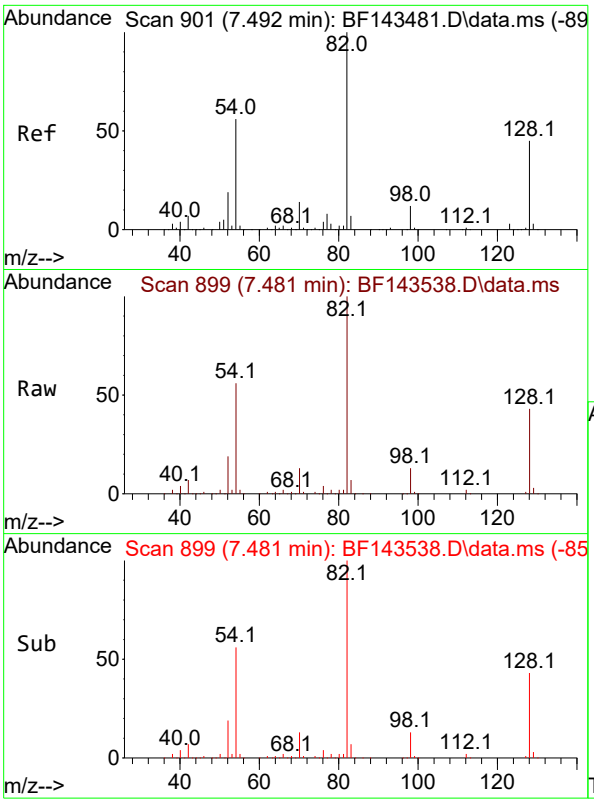


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.204 min Scan# 1022
Delta R.T. -0.006 min
Lab File: BF143538.D
Acq: 21 Aug 2025 19:03

Tgt Ion:136 Resp: 413757

Ion	Ratio	Lower	Upper
136	100		
137	10.8	9.0	13.4
54	9.4	7.4	11.2
68	6.1	5.0	7.4



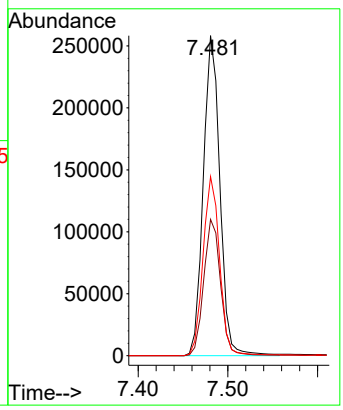


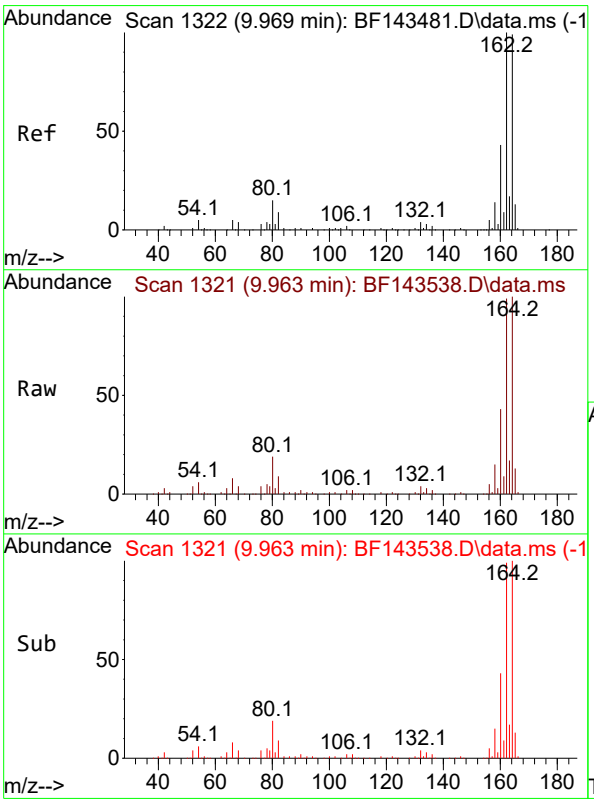
#23
Nitrobenzene-d5
Concen: 46.844 ng
RT: 7.481 min Scan# 8
Delta R.T. -0.018 min
Lab File: BF143538.D
Acq: 21 Aug 2025 19:03

Instrument :
BNA_F
ClientSampleId :
22BP-SRE

Tgt Ion: 82 Resp: 332143

Ion	Ratio	Lower	Upper
82	100		
128	42.6	35.5	53.3
54	56.0	44.3	66.5

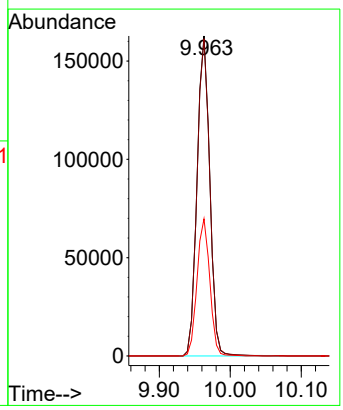


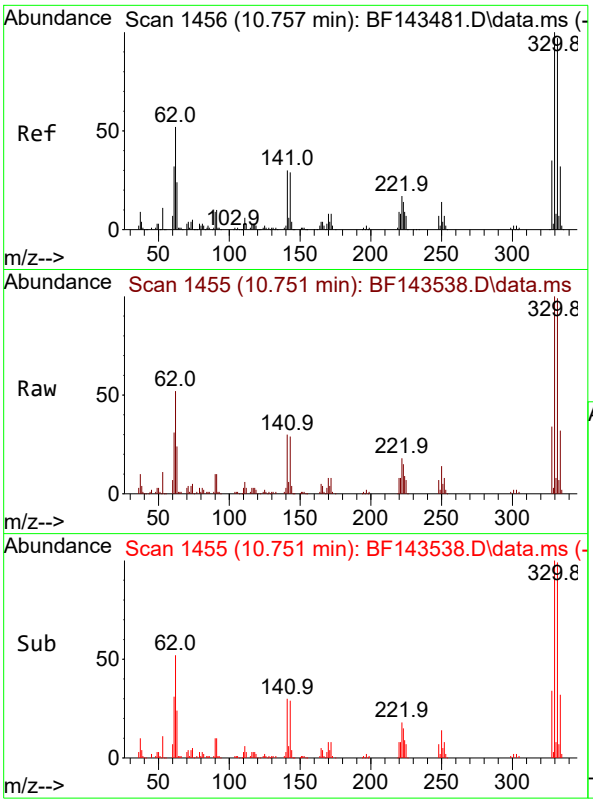


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.963 min Scan# 1321
Delta R.T. -0.006 min
Lab File: BF143538.D
Acq: 21 Aug 2025 19:03

Tgt Ion:164 Resp: 203054

Ion	Ratio	Lower	Upper
164	100		
162	99.2	80.5	120.7
160	42.8	34.3	51.5



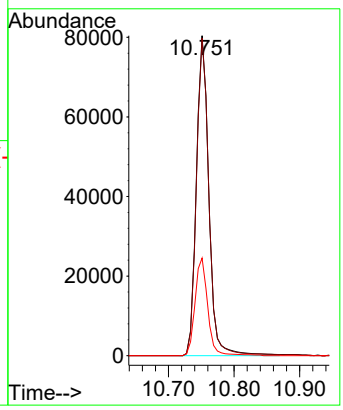


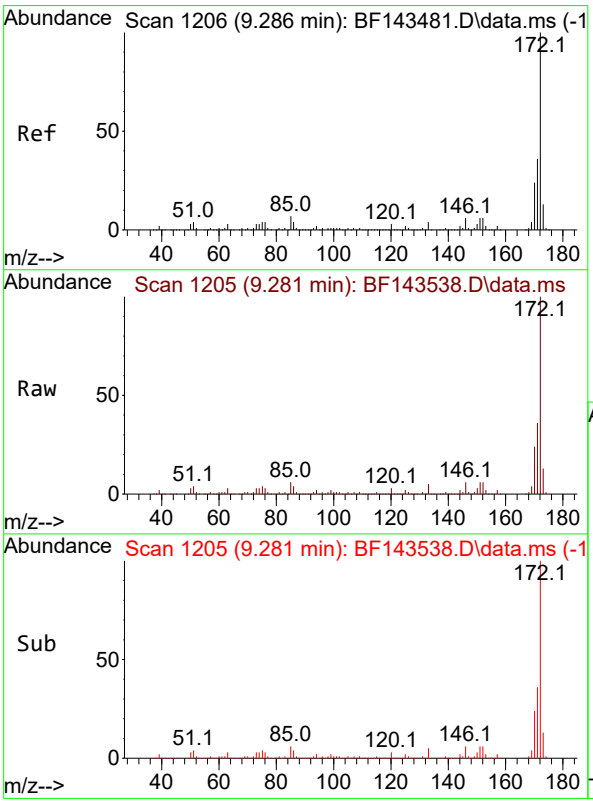
#42
2,4,6-Tribromophenol
Concen: 56.553 ng
RT: 10.751 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF143538.D
Acq: 21 Aug 2025 19:03

Instrument :
BNA_F
ClientSampleId :
22BP-SRE

Tgt Ion:330 Resp: 106892

Ion	Ratio	Lower	Upper
330	100		
332	98.9	78.0	117.0
141	31.0	23.7	35.5

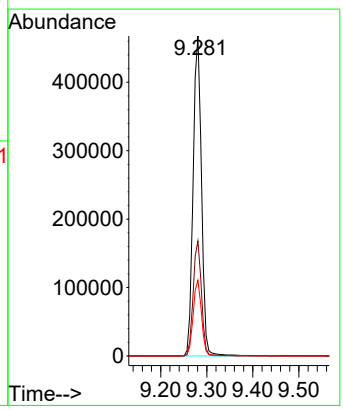


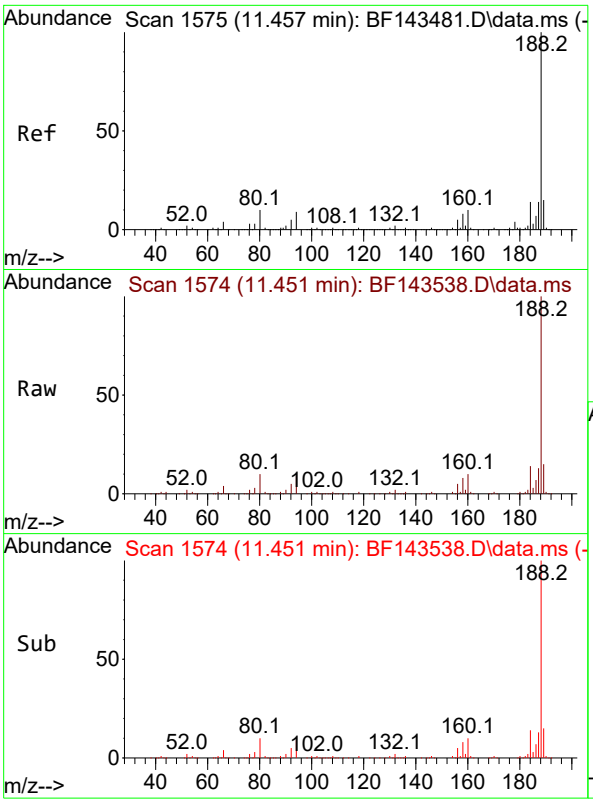


#45
2-Fluorobiphenyl
Concen: 48.023 ng
RT: 9.281 min Scan# 1205
Delta R.T. -0.006 min
Lab File: BF143538.D
Acq: 21 Aug 2025 19:03

Tgt Ion:172 Resp: 590027

Ion	Ratio	Lower	Upper
172	100		
171	36.0	28.8	43.2
170	23.6	18.8	28.2



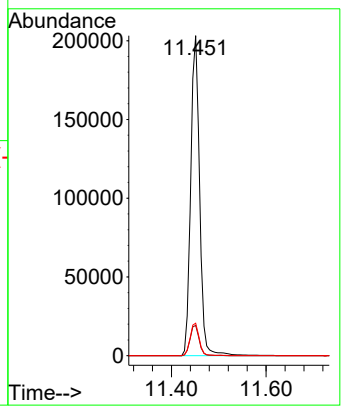


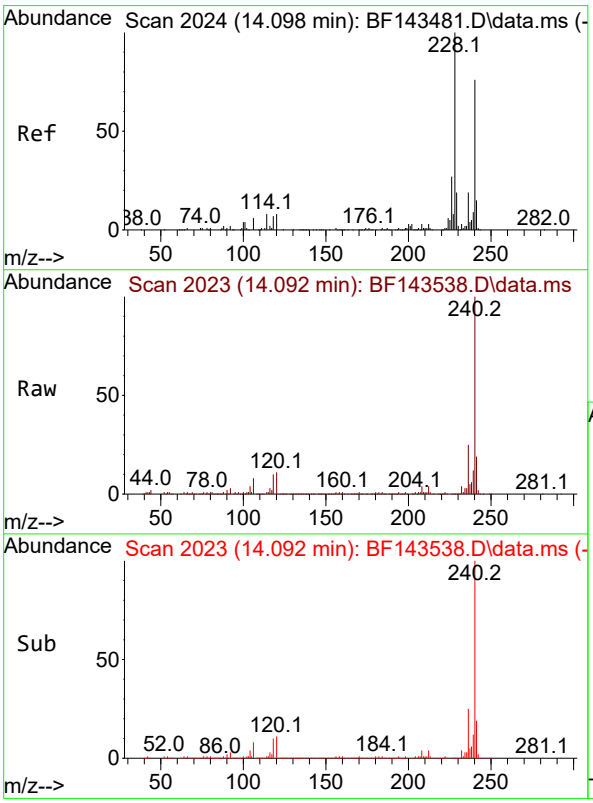
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.451 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143538.D
Acq: 21 Aug 2025 19:03

Instrument :
BNA_F
ClientSampleId :
22BP-SRE

Tgt Ion:188 Resp: 265665

Ion	Ratio	Lower	Upper
188	100		
94	9.4	7.4	11.2
80	10.2	8.2	12.4

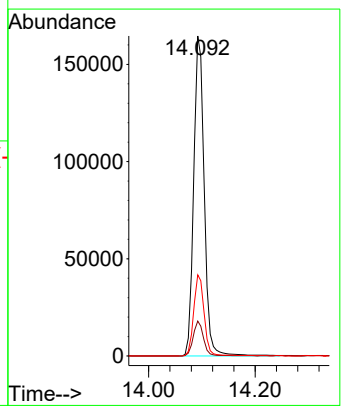


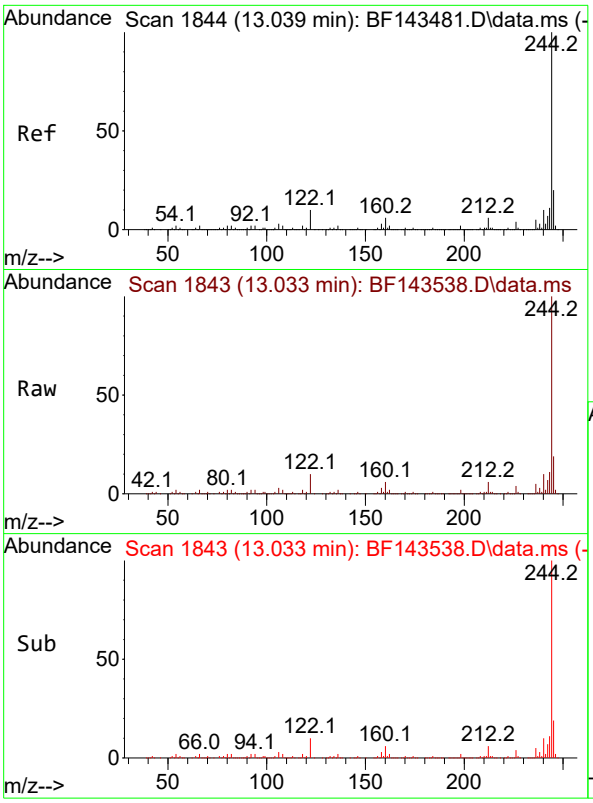


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.092 min Scan# 2023
Delta R.T. -0.012 min
Lab File: BF143538.D
Acq: 21 Aug 2025 19:03

Tgt Ion:240 Resp: 226574

Ion	Ratio	Lower	Upper
240	100		
120	10.9	8.6	12.8
236	25.4	20.4	30.6



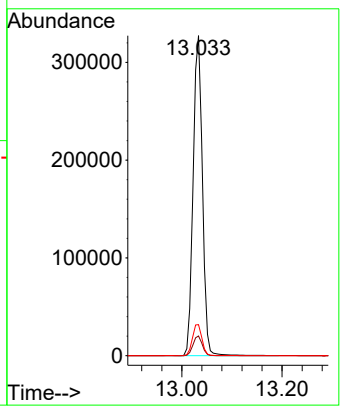


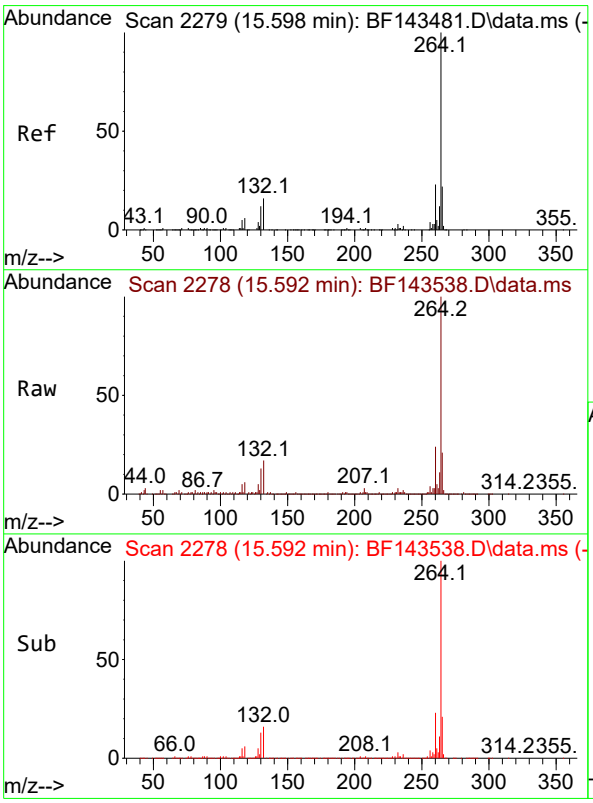
#79
Terphenyl-d14
Concen: 32.345 ng
RT: 13.033 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143538.D
Acq: 21 Aug 2025 19:03

Instrument :
BNA_F
ClientSampleId :
22BP-SRE

Tgt Ion:244 Resp: 419964

Ion	Ratio	Lower	Upper
244	100		
212	6.2	5.2	7.8
122	9.7	7.9	11.9

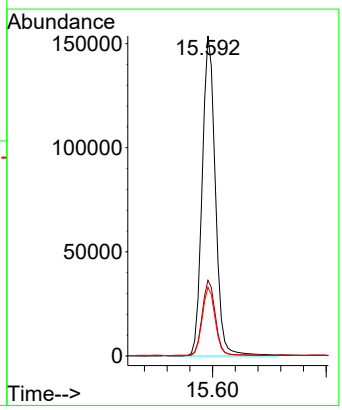




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.592 min Scan# 2278
Delta R.T. -0.006 min
Lab File: BF143538.D
Acq: 21 Aug 2025 19:03

Tgt Ion:264 Resp: 247509

Ion	Ratio	Lower	Upper
264	100		
260	23.6	18.7	28.1
265	21.4	17.6	26.4



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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	11M-W	SDG No.:	Q2819
Lab Sample ID:	Q2819-05	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	91.5
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP025500.D	1	08/14/25 08:40	08/20/25 08:38	PB169242

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
100-52-7	Benzaldehyde	290	U	170	290	360	ug/Kg
108-95-2	Phenol	140	U	24.1	140	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	140	U	26.5	140	190	ug/Kg
95-57-8	2-Chlorophenol	140	U	26.6	140	190	ug/Kg
95-48-7	2-Methylphenol	140	U	32.6	140	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	140	U	40.9	140	190	ug/Kg
98-86-2	Acetophenone	140	U	32.2	140	190	ug/Kg
65794-96-9	3+4-Methylphenols	290	U	44.9	290	360	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	87.3	U	51.7	87.3	87.3	ug/Kg
67-72-1	Hexachloroethane	140	U	19.2	140	190	ug/Kg
98-95-3	Nitrobenzene	140	U	20.0	140	190	ug/Kg
78-59-1	Isophorone	140	U	35.8	140	190	ug/Kg
88-75-5	2-Nitrophenol	140	U	63.5	140	190	ug/Kg
105-67-9	2,4-Dimethylphenol	140	U	70.7	140	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	140	U	33.6	140	190	ug/Kg
120-83-2	2,4-Dichlorophenol	140	U	30.9	140	190	ug/Kg
91-20-3	Naphthalene	140	U	24.8	140	190	ug/Kg
106-47-8	4-Chloroaniline	140	U	38.6	140	190	ug/Kg
87-68-3	Hexachlorobutadiene	140	U	27.6	140	190	ug/Kg
105-60-2	Caprolactam	290	U	56.9	290	360	ug/Kg
59-50-7	4-Chloro-3-methylphenol	140	U	31.3	140	190	ug/Kg
91-57-6	2-Methylnaphthalene	140	U	27.9	140	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	290	U	130	290	360	ug/Kg
88-06-2	2,4,6-Trichlorophenol	140	U	21.6	140	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	140	U	31.8	140	190	ug/Kg
92-52-4	1,1-Biphenyl	140	U	23.8	140	190	ug/Kg
91-58-7	2-Chloronaphthalene	140	U	24.6	140	190	ug/Kg
88-74-4	2-Nitroaniline	140	U	52.5	140	190	ug/Kg
131-11-3	Dimethylphthalate	140	U	29.6	140	190	ug/Kg

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	11M-W	SDG No.:	Q2819
Lab Sample ID:	Q2819-05	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	91.5
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP025500.D	1	08/14/25 08:40	08/20/25 08:38	PB169242

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	140	U	31.5	140	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	140	U	36.7	140	190	ug/Kg
99-09-2	3-Nitroaniline	140	U	50.2	140	190	ug/Kg
83-32-9	Acenaphthene	140	U	23.2	140	190	ug/Kg
51-28-5	2,4-Dinitrophenol	290	U	250	290	360	ug/Kg
100-02-7	4-Nitrophenol	290	U	120	290	360	ug/Kg
132-64-9	Dibenzofuran	140	U	24.8	140	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	140	U	54.7	140	190	ug/Kg
84-66-2	Diethylphthalate	140	U	30.9	140	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	140	U	29.1	140	190	ug/Kg
86-73-7	Fluorene	140	U	27.6	140	190	ug/Kg
100-01-6	4-Nitroaniline	140	U	70.1	140	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	290	U	110	290	360	ug/Kg
86-30-6	n-Nitrosodiphenylamine	140	U	35.9	140	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	140	U	30.3	140	190	ug/Kg
118-74-1	Hexachlorobenzene	140	U	27.6	140	190	ug/Kg
1912-24-9	Atrazine	140	U	37.1	140	190	ug/Kg
87-86-5	Pentachlorophenol	290	U	56.0	290	360	ug/Kg
85-01-8	Phenanthrene	140	U	22.8	140	190	ug/Kg
120-12-7	Anthracene	140	U	36.3	140	190	ug/Kg
86-74-8	Carbazole	140	U	34.1	140	190	ug/Kg
84-74-2	Di-n-butylphthalate	140	U	52.3	140	190	ug/Kg
206-44-0	Fluoranthene	140	U	32.7	140	190	ug/Kg
129-00-0	Pyrene	140	U	39.3	140	190	ug/Kg
85-68-7	Butylbenzylphthalate	140	U	77.9	140	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	290	U	40.1	290	360	ug/Kg
56-55-3	Benzo(a)anthracene	140	U	25.1	140	190	ug/Kg
218-01-9	Chrysene	140	U	21.7	140	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	140	U	64.6	140	190	ug/Kg
117-84-0	Di-n-octyl phthalate	290	U	94.7	290	360	ug/Kg
205-99-2	Benzo(b)fluoranthene	140	U	20.7	140	190	ug/Kg

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	11M-W	SDG No.:	Q2819
Lab Sample ID:	Q2819-05	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	91.5
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP025500.D	1	08/14/25 08:40	08/20/25 08:38	PB169242

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	140	U	24.4	140	190	ug/Kg
50-32-8	Benzo(a)pyrene	140	U	32.2	140	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	140	U	31.8	140	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	140	U	29.9	140	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	140	U	28.1	140	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	140	U	27.9	140	190	ug/Kg
123-91-1	1,4-Dioxane	140	UQ	49.3	140	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	140	U	29.9	140	190	ug/Kg
SURROGATES							
367-12-4	2-Fluorophenol	122		35 - 115		81%	SPK: 150
13127-88-3	Phenol-d6	124		34 - 127		83%	SPK: 150
4165-60-0	Nitrobenzene-d5	78.0		37 - 122		78%	SPK: 100
321-60-8	2-Fluorobiphenyl	70.5		44 - 115		71%	SPK: 100
118-79-6	2,4,6-Tribromophenol	130		39 - 132		87%	SPK: 150
1718-51-0	Terphenyl-d14	70.1		54 - 127		70%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	157000	7.79				
1146-65-2	Naphthalene-d8	621000	10.56				
15067-26-2	Acenaphthene-d10	426000	14.401				
1517-22-2	Phenanthrene-d10	905000	17.195				
1719-03-5	Chrysene-d12	992000	21.636				
1520-96-3	Perylene-d12	1040000	25.007				
TENTATIVE IDENTIFIED COMPOUNDS							
000994-05-8	Butane, 2-methoxy-2-methyl-	1200	J			3.04	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	290	AB			4.94	ug/Kg
000119-61-9	Benzophenone	400	J			15.8	ug/Kg
000057-10-3	n-Hexadecanoic acid	280	J			18.1	ug/Kg
000110-34-9	Hexadecanoic acid, 2-methylpropyl	130	JB			19.4	ug/Kg
000057-11-4	Octadecanoic acid	100	J			19.5	ug/Kg
000111-06-8	Hexadecanoic acid, butyl ester	210	JB			19.6	ug/Kg

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	11M-W	SDG No.:	Q2819
Lab Sample ID:	Q2819-05	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	91.5
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP025500.D	1	08/14/25 08:40	08/20/25 08:38	PB169242

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
000646-13-9	Octadecanoic acid, 2-methylpropyl	77.1	J			20.5	ug/Kg
000123-95-5	Octadecanoic acid, butyl ester	170	JB			20.7	ug/Kg
1000351-88-8	Nonadecyl pentafluoropropionate	190	J			21.3	ug/Kg

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

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081925\
Data File : BP025500.D
Acq On : 20 Aug 2025 08:38
Operator : CG/JU
Sample : Q2819-05
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
11M-W

Quant Time: Aug 20 09:04:18 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration

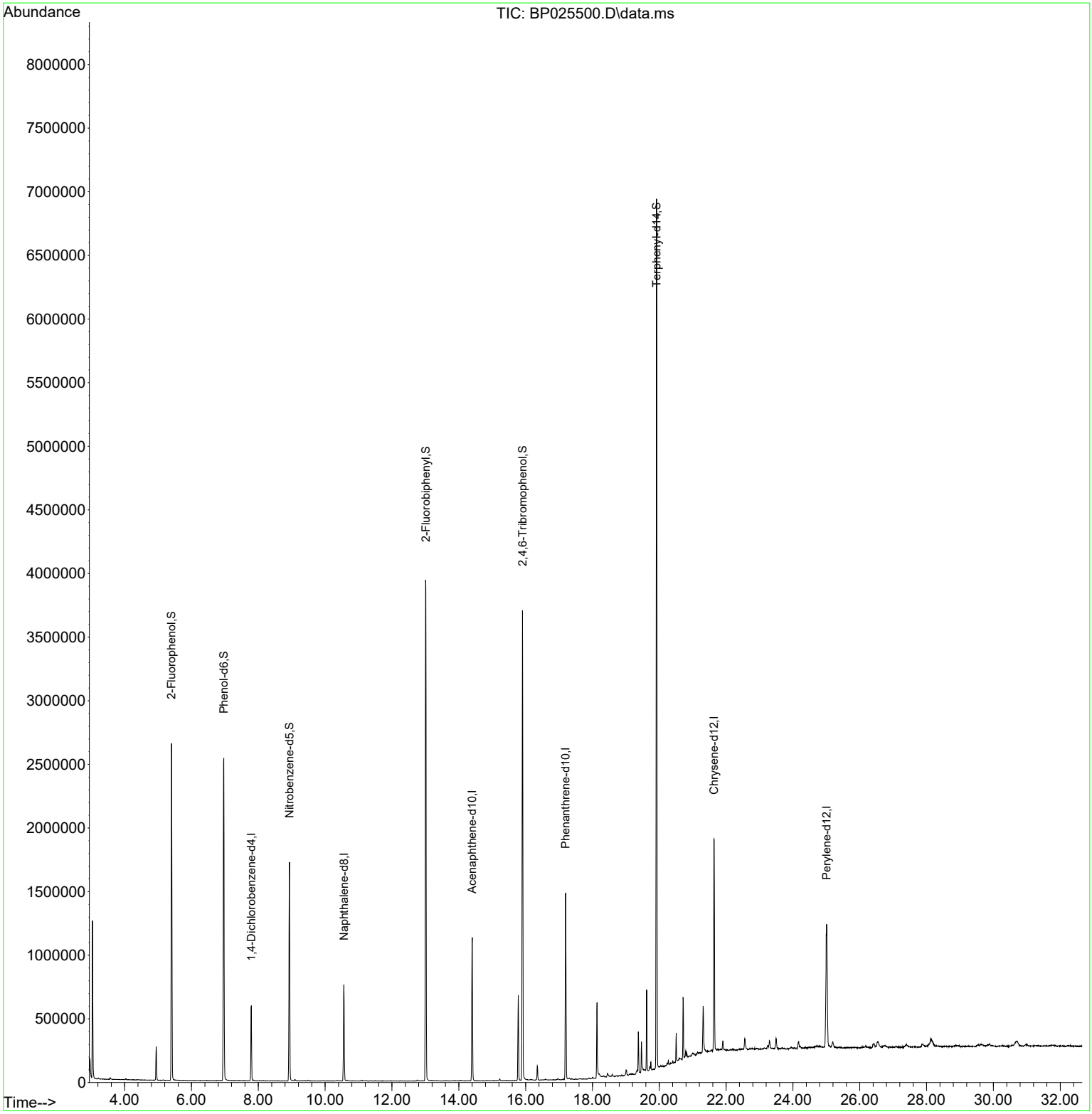
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.790	152	157249	20.000	ng	0.00
21) Naphthalene-d8	10.560	136	620638	20.000	ng	0.00
39) Acenaphthene-d10	14.401	164	425520	20.000	ng	0.00
64) Phenanthrene-d10	17.195	188	904666	20.000	ng	0.00
76) Chrysene-d12	21.636	240	991814	20.000	ng	-0.01
86) Perylene-d12	25.007	264	1041809	20.000	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.402	112	1157222	122.214	ng	0.00
7) Phenol-d6	6.966	99	1511369	124.496	ng	0.00
23) Nitrobenzene-d5	8.931	82	956383	77.951	ng	0.00
42) 2,4,6-Tribromophenol	15.907	330	746280	130.297	ng	0.00
45) 2-Fluorobiphenyl	13.013	172	2195196	70.505	ng	0.00
79) Terphenyl-d14	19.919	244	3800019	70.098	ng	0.00
Target Compounds						Qvalue

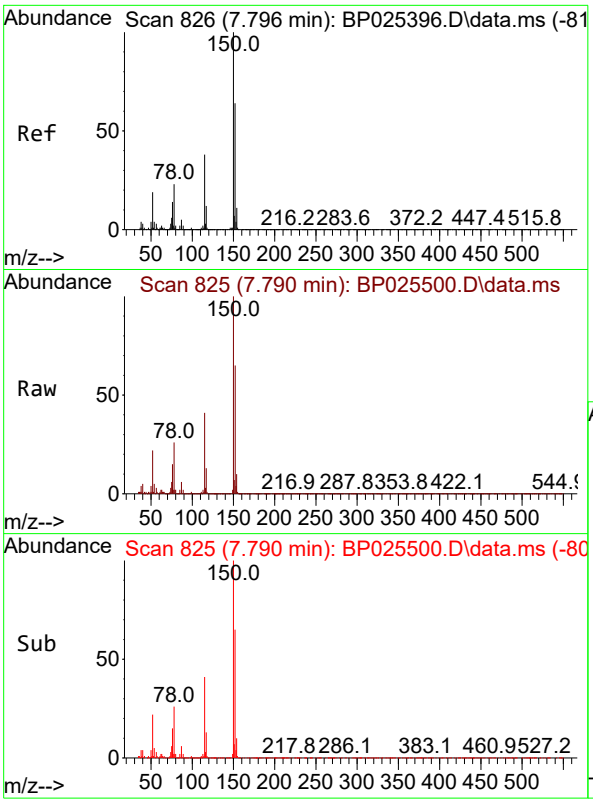
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081925\
Data File : BP025500.D
Acq On : 20 Aug 2025 08:38
Operator : CG/JU
Sample : Q2819-05
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
11M-W

Quant Time: Aug 20 09:04:18 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration



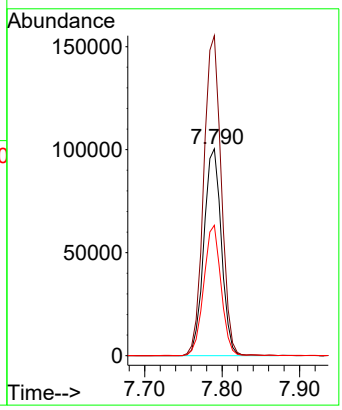


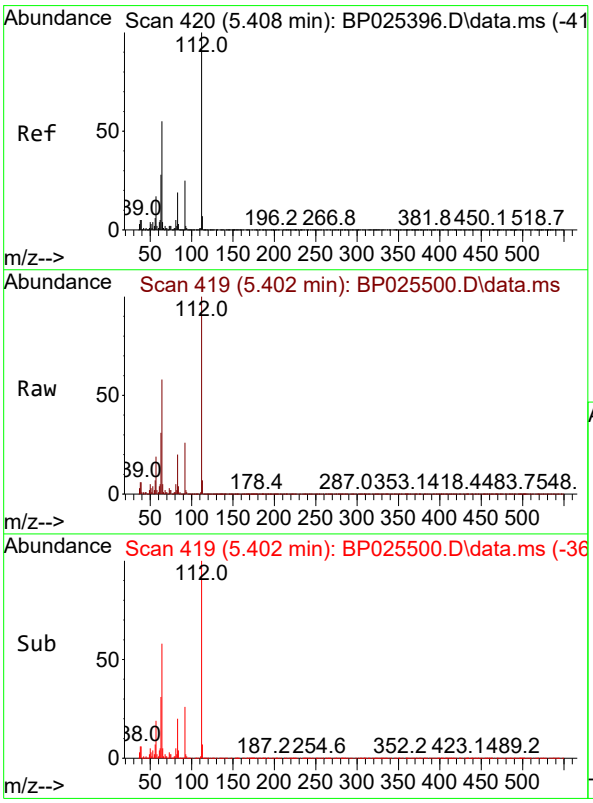
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.790 min Scan# 8
Delta R.T. -0.006 min
Lab File: BP025500.D
Acq: 20 Aug 2025 08:38

Instrument :
BNA_P
ClientSampleId :
11M-W

Tgt Ion:152 Resp: 157249

Ion	Ratio	Lower	Upper
152	100		
150	154.6	125.9	188.9
115	63.1	48.5	72.7

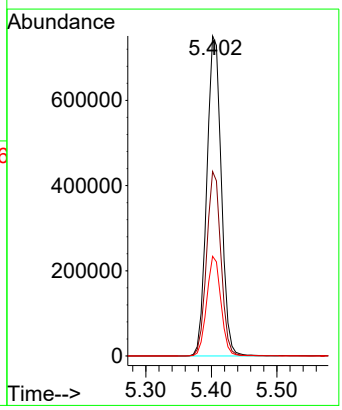


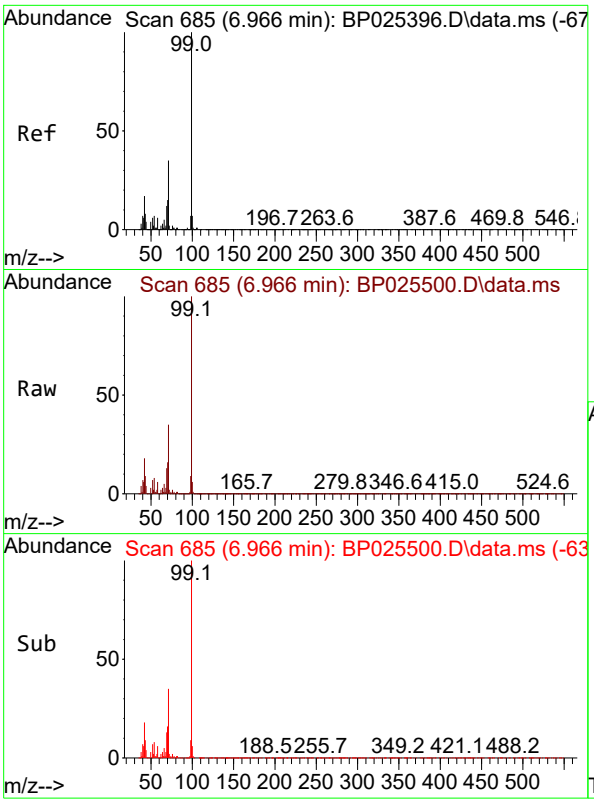


#5
2-Fluorophenol
Concen: 122.214 ng
RT: 5.402 min Scan# 419
Delta R.T. -0.006 min
Lab File: BP025500.D
Acq: 20 Aug 2025 08:38

Tgt Ion:112 Resp: 1157222

Ion	Ratio	Lower	Upper
112	100		
64	57.6	43.8	65.8
63	31.2	22.7	34.1



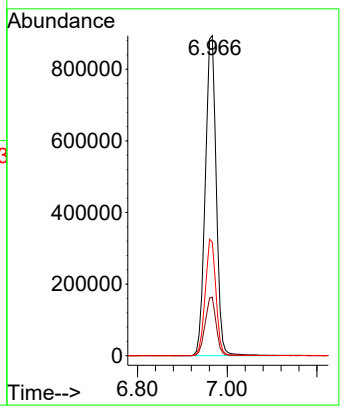


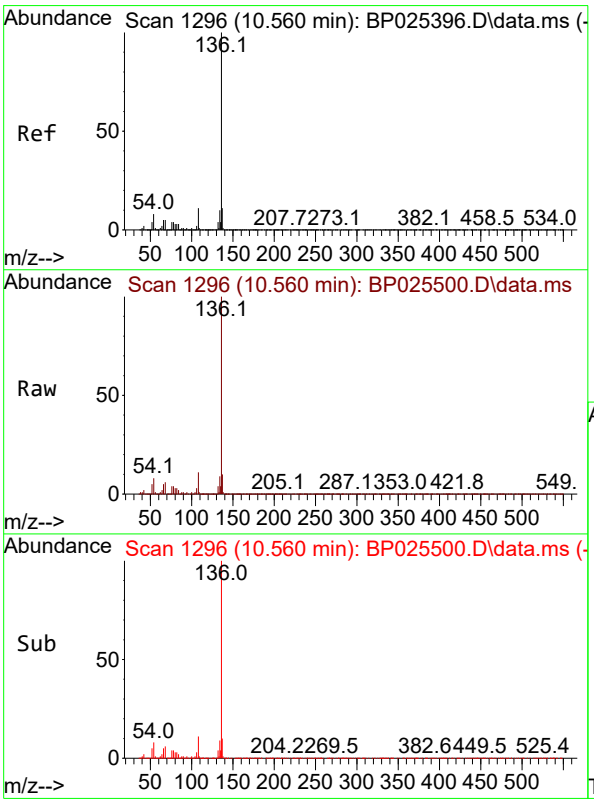
#7
Phenol-d6
Concen: 124.496 ng
RT: 6.966 min Scan# 6
Delta R.T. 0.000 min
Lab File: BP025500.D
Acq: 20 Aug 2025 08:38

Instrument :
BNA_P
ClientSampleId :
11M-W

Tgt Ion: 99 Resp: 1511369

Ion	Ratio	Lower	Upper
99	100		
42	18.3	13.7	20.5
71	35.4	28.2	42.4

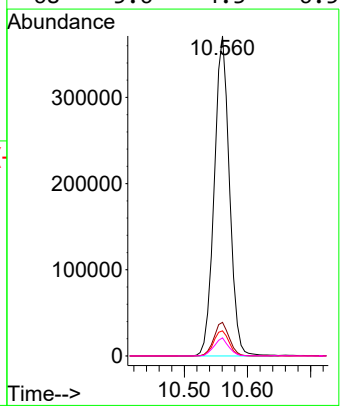


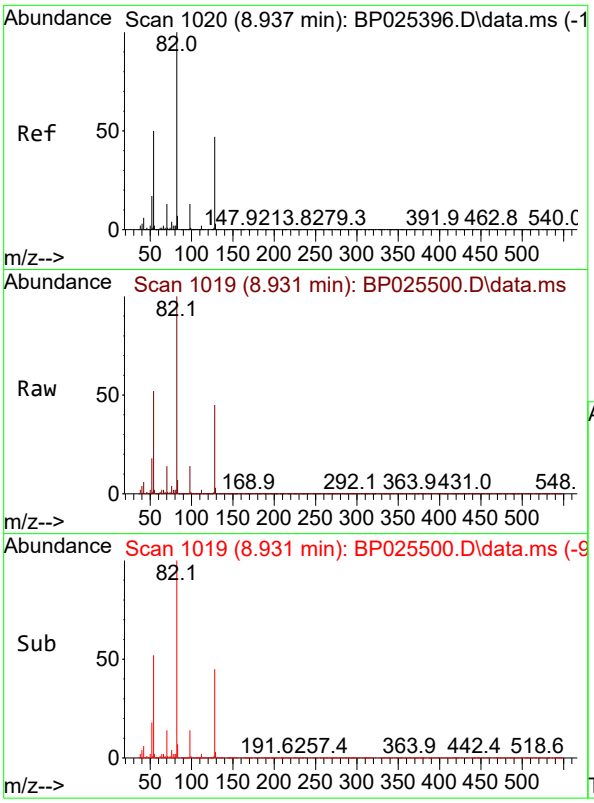


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.560 min Scan# 1296
Delta R.T. 0.000 min
Lab File: BP025500.D
Acq: 20 Aug 2025 08:38

Tgt Ion:136 Resp: 620638

Ion	Ratio	Lower	Upper
136	100		
137	10.5	9.2	13.8
54	7.9	6.0	9.0
68	5.6	4.3	6.5



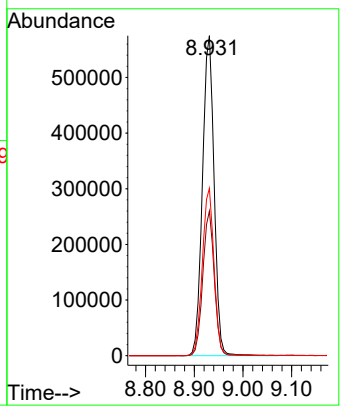


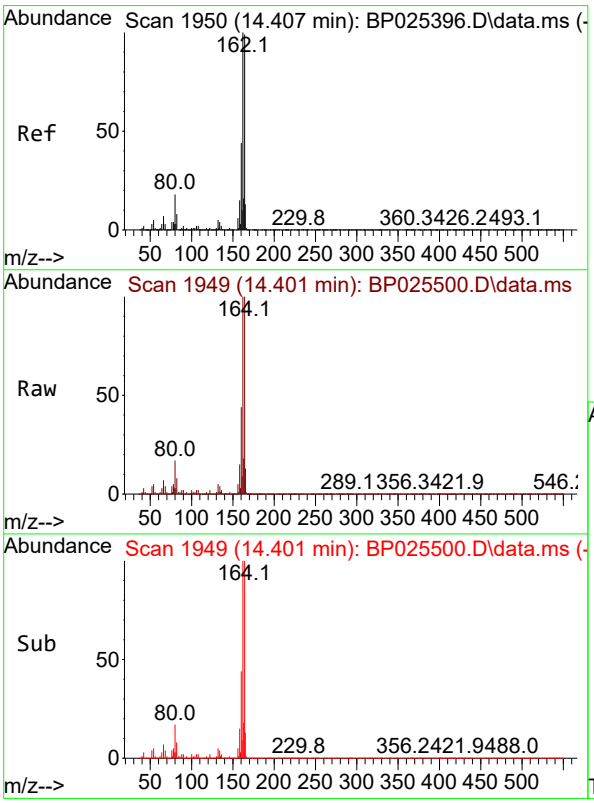
#23
Nitrobenzene-d5
Concen: 77.951 ng
RT: 8.931 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025500.D
Acq: 20 Aug 2025 08:38

Instrument :
BNA_P
ClientSampleId :
11M-W

Tgt Ion: 82 Resp: 956383

Ion	Ratio	Lower	Upper
82	100		
128	45.2	37.7	56.5
54	52.3	39.8	59.6

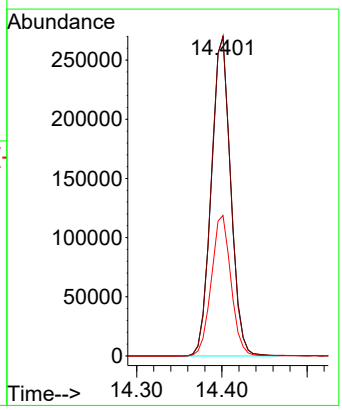


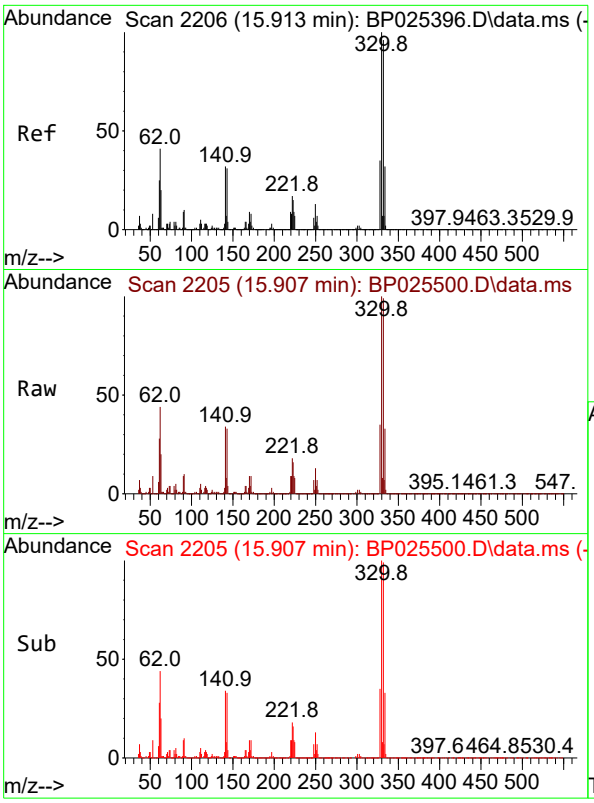


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.401 min Scan# 1949
Delta R.T. -0.006 min
Lab File: BP025500.D
Acq: 20 Aug 2025 08:38

Tgt Ion:164 Resp: 425520

Ion	Ratio	Lower	Upper
164	100		
162	100.5	81.0	121.6
160	44.1	35.4	53.2



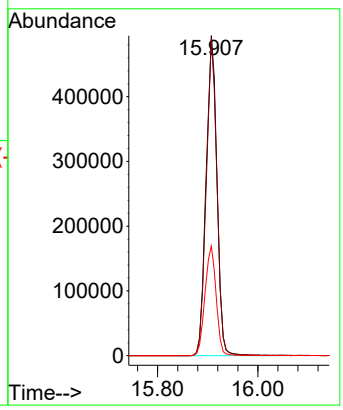


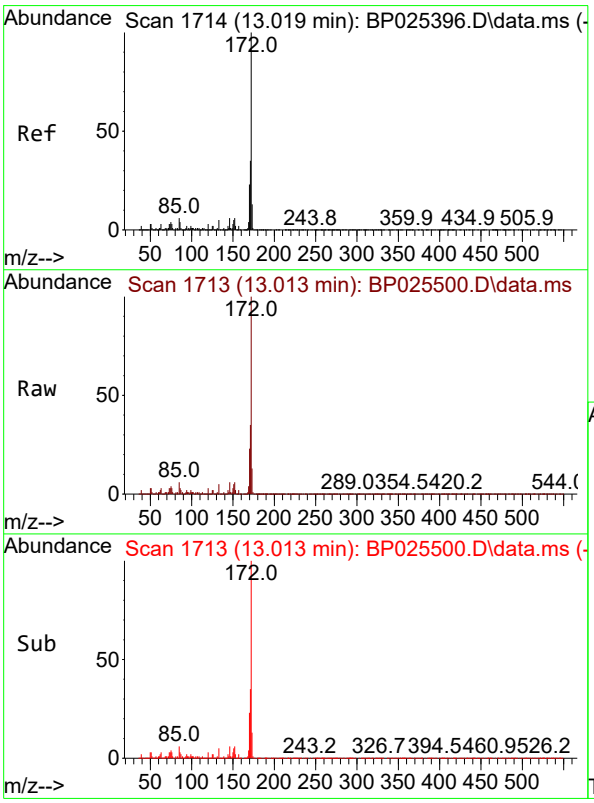
#42
2,4,6-Tribromophenol
Concen: 130.297 ng
RT: 15.907 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP025500.D
Acq: 20 Aug 2025 08:38

Instrument :
BNA_P
ClientSampleId :
11M-W

Tgt Ion:330 Resp: 746280

Ion	Ratio	Lower	Upper
330	100		
332	97.1	77.3	115.9
141	35.2	26.6	39.8

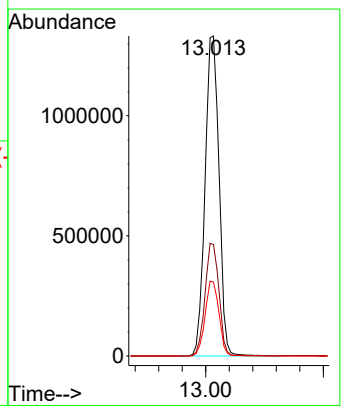


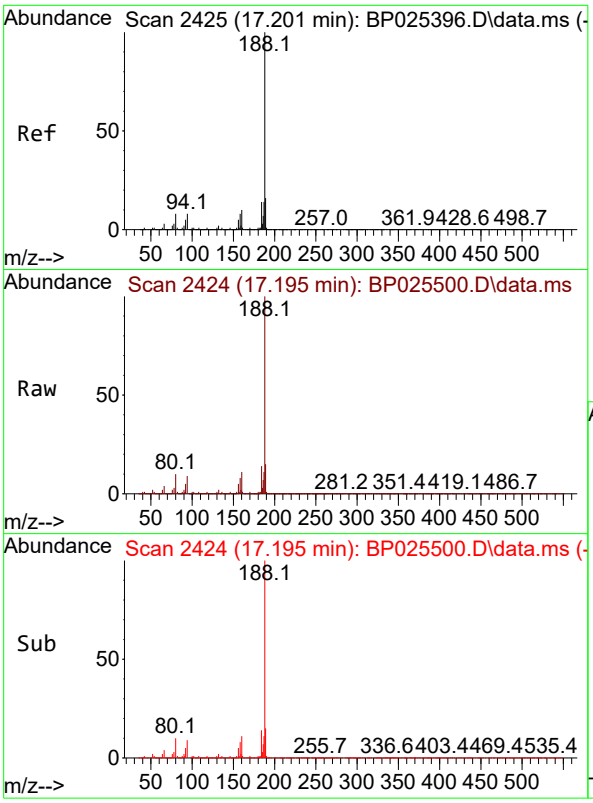


#45
2-Fluorobiphenyl
Concen: 70.505 ng
RT: 13.013 min Scan# 1713
Delta R.T. -0.006 min
Lab File: BP025500.D
Acq: 20 Aug 2025 08:38

Tgt Ion:172 Resp: 2195196

Ion	Ratio	Lower	Upper
172	100		
171	34.9	28.1	42.1
170	23.1	18.6	28.0



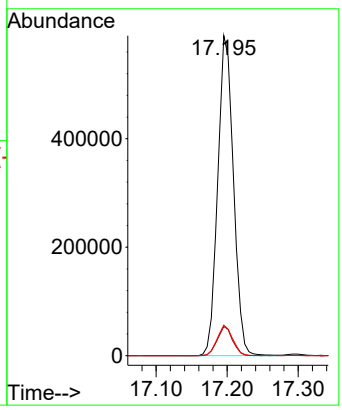


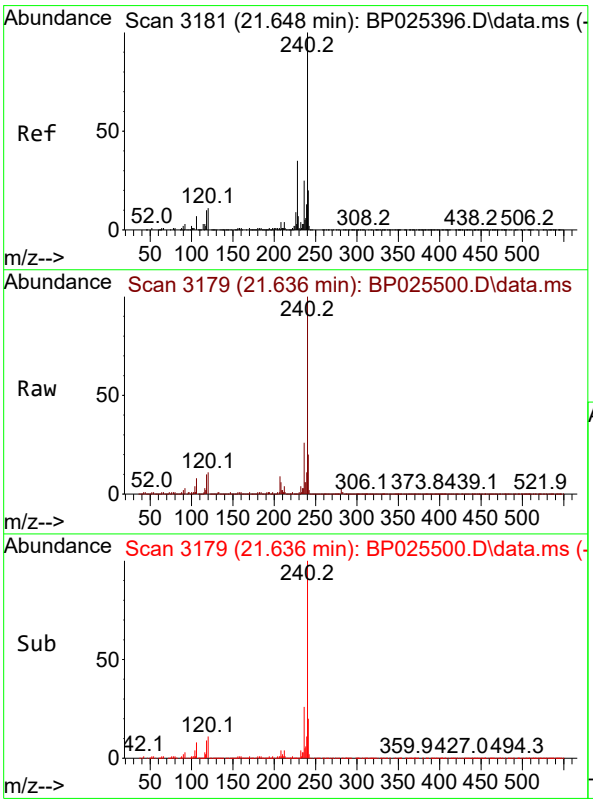
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.195 min Scan# 24
Delta R.T. -0.006 min
Lab File: BP025500.D
Acq: 20 Aug 2025 08:38

Instrument :
BNA_P
ClientSampleId :
11M-W

Tgt Ion:188 Resp: 904666

Ion	Ratio	Lower	Upper
188	100		
94	9.1	6.6	10.0
80	9.5	6.7	10.1

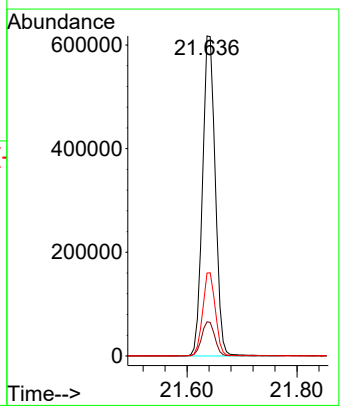


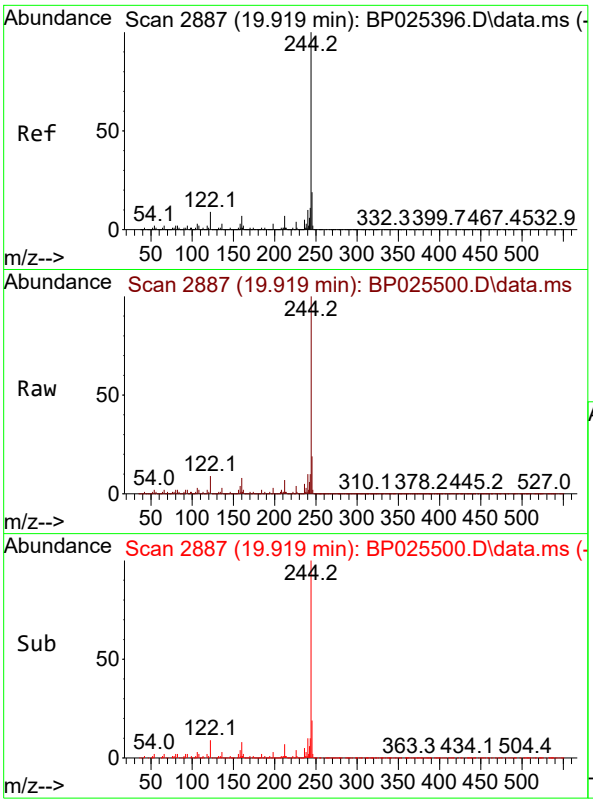


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.636 min Scan# 3179
Delta R.T. -0.012 min
Lab File: BP025500.D
Acq: 20 Aug 2025 08:38

Tgt Ion:240 Resp: 991814

Ion	Ratio	Lower	Upper
240	100		
120	10.7	8.9	13.3
236	25.9	19.8	29.8



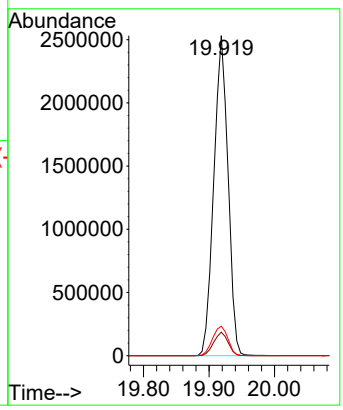


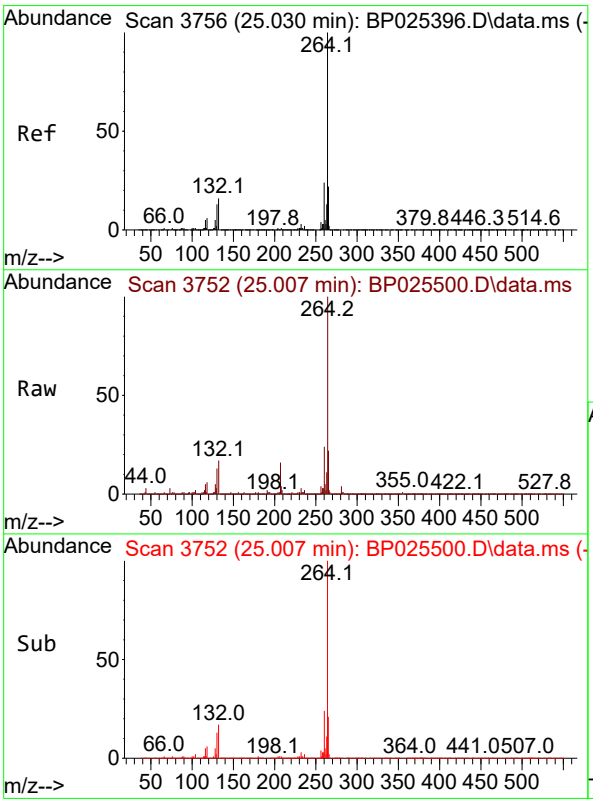
#79
Terphenyl-d14
Concen: 70.098 ng
RT: 19.919 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP025500.D
Acq: 20 Aug 2025 08:38

Instrument :
BNA_P
ClientSampleId :
11M-W

Tgt Ion:244 Resp: 3800019

Ion	Ratio	Lower	Upper
244	100		
212	7.4	5.8	8.6
122	9.2	7.4	11.2

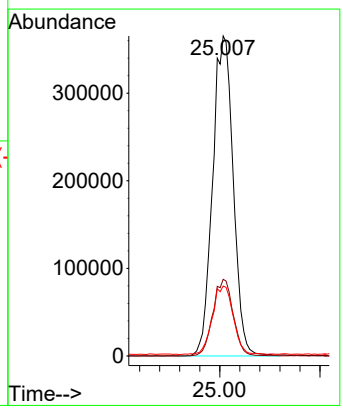




#86
Perylene-d12
Concen: 20.000 ng
RT: 25.007 min Scan# 3752
Delta R.T. -0.023 min
Lab File: BP025500.D
Acq: 20 Aug 2025 08:38

Tgt Ion:264 Resp: 1041809

Ion	Ratio	Lower	Upper
264	100		
260	23.9	19.3	28.9
265	21.8	17.4	26.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081925\
Data File : BP025500.D
Acq On : 20 Aug 2025 08:38
Operator : CG/JU
Sample : Q2819-05
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
11M-W

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

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

Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BP025500.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.037	12	17	32	rVB	1241429	1521063	14.60%	2.893%
2	4.943	336	341	353	rVB	263795	375176	3.60%	0.713%
3	5.402	413	419	432	rBV	2646726	4027827	38.65%	7.660%
4	6.966	676	685	704	rBV	2535129	4325644	41.51%	8.226%
5	7.790	817	825	832	rBV	591027	929314	8.92%	1.767%
6	8.931	1010	1019	1031	rBV	1719805	2856712	27.41%	5.433%
7	10.560	1287	1296	1307	rBV	756626	1270542	12.19%	2.416%
8	13.007	1705	1712	1732	rBV	3936658	6459803	61.98%	12.285%
9	14.401	1941	1949	1968	rBV	1126583	1824854	17.51%	3.470%
10	15.778	2175	2183	2192	rBV	669706	1013739	9.73%	1.928%
11	15.907	2197	2205	2222	rBV	3693193	5724449	54.93%	10.887%
12	16.348	2275	2280	2290	rVB	110187	171669	1.65%	0.326%
13	17.195	2417	2424	2435	rBV2	1468080	2290284	21.98%	4.356%
14	18.136	2578	2584	2593	rBV	596395	896574	8.60%	1.705%
15	19.372	2790	2794	2801	rVB	321064	408354	3.92%	0.777%
16	19.466	2806	2810	2819	rBV	240995	369135	3.54%	0.702%
17	19.619	2832	2836	2842	rVB	631374	771036	7.40%	1.466%
18	19.919	2880	2887	2895	rBV	6833906	10421725	100.00%	19.820%
19	20.507	2983	2987	2993	rBV	232155	283794	2.72%	0.540%
20	20.713	3018	3022	3028	rBV	482527	617788	5.93%	1.175%
21	21.313	3119	3124	3137	rBV2	361341	682836	6.55%	1.299%
22	21.636	3174	3179	3186	rBV2	1655711	2675769	25.67%	5.089%
23	25.007	3744	3752	3762	rVB2	953432	2664905	25.57%	5.068%

Sum of corrected areas: 52582992

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081925\
Data File : BP025500.D
Acq On : 20 Aug 2025 08:38
Operator : CG/JU
Sample : Q2819-05
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
11M-W

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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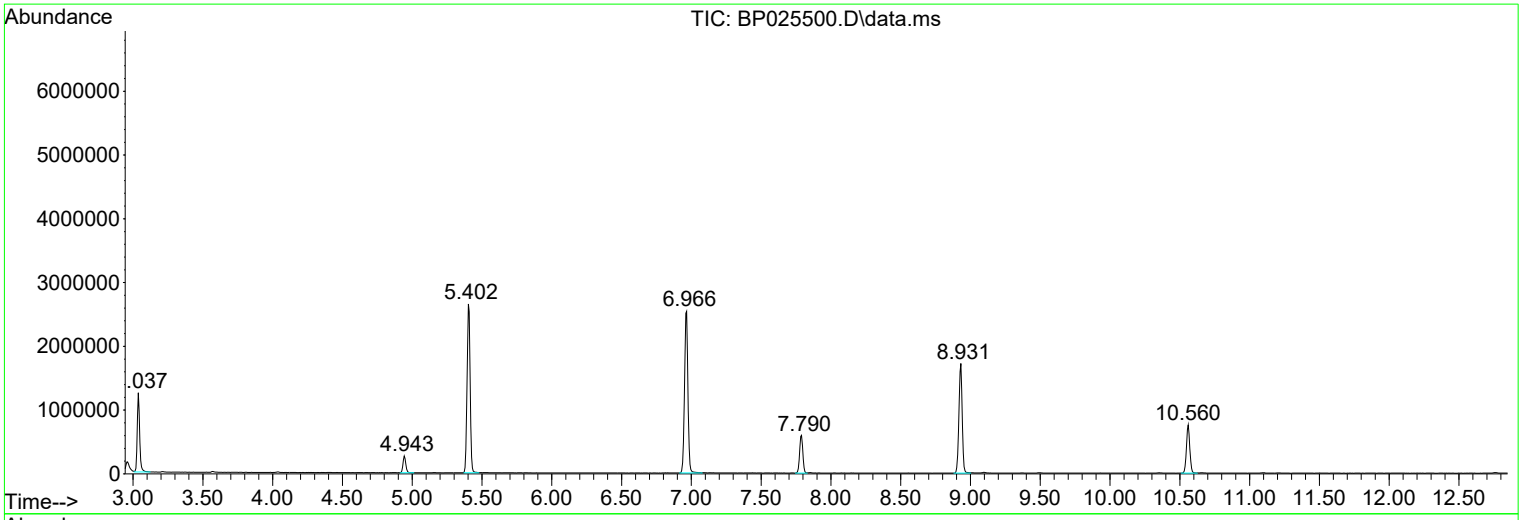

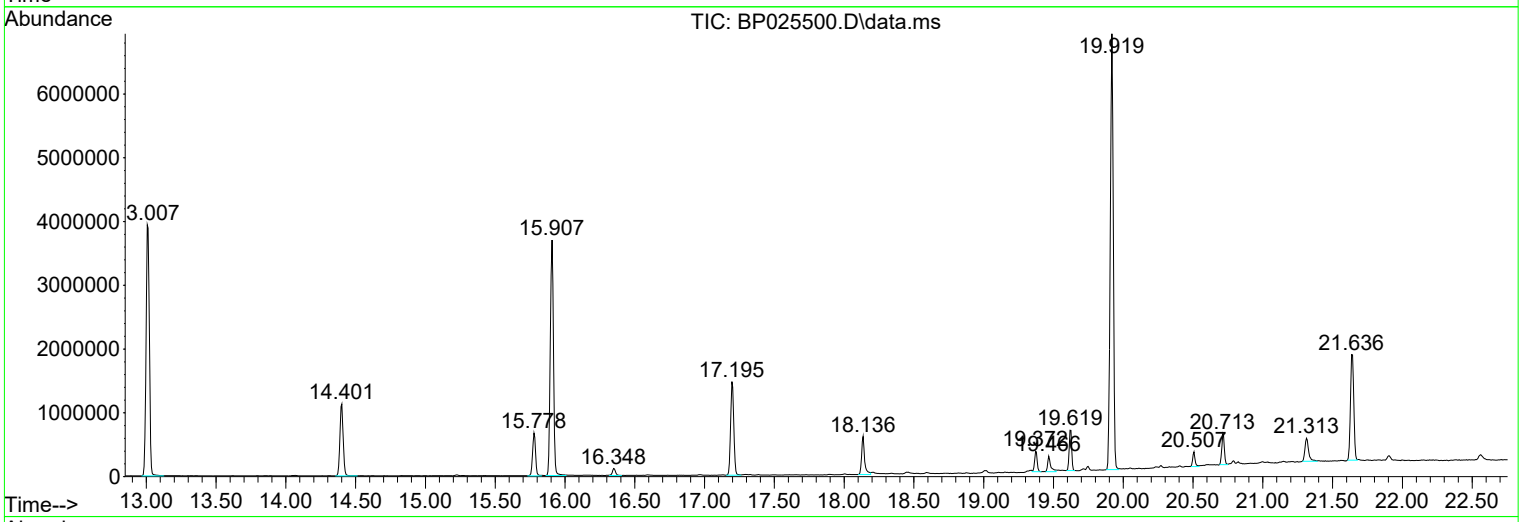

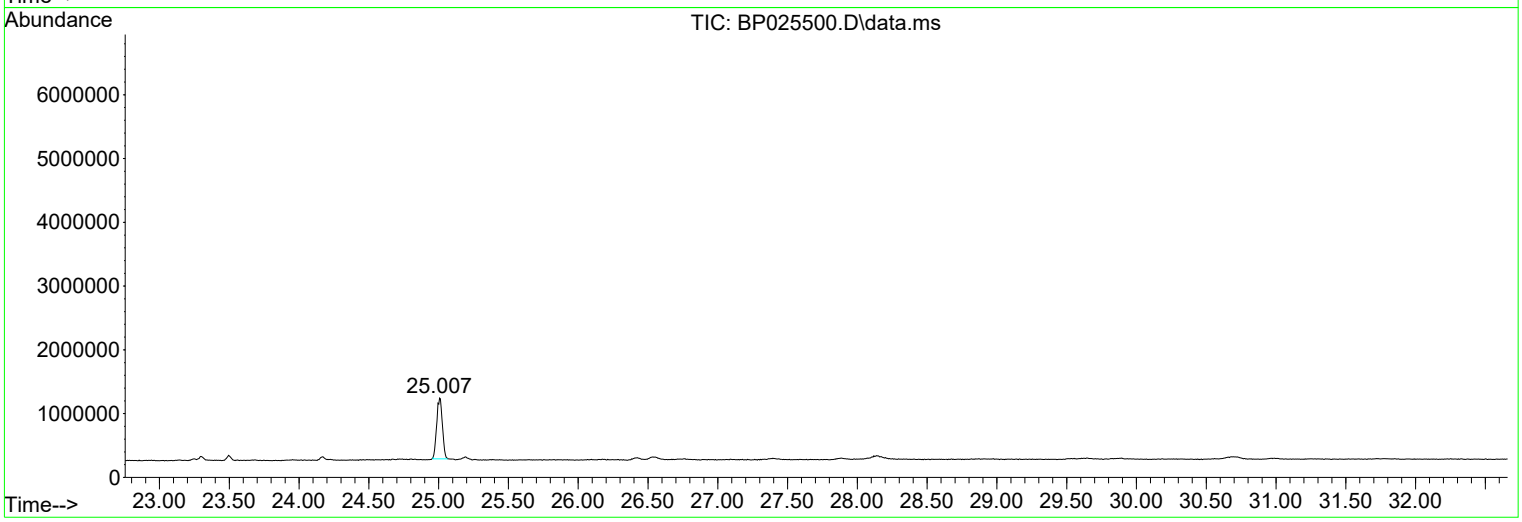

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Acq On : 20 Aug 2025 08:38
Operator : CG/JU
Sample : Q2819-05
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
11M-W

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

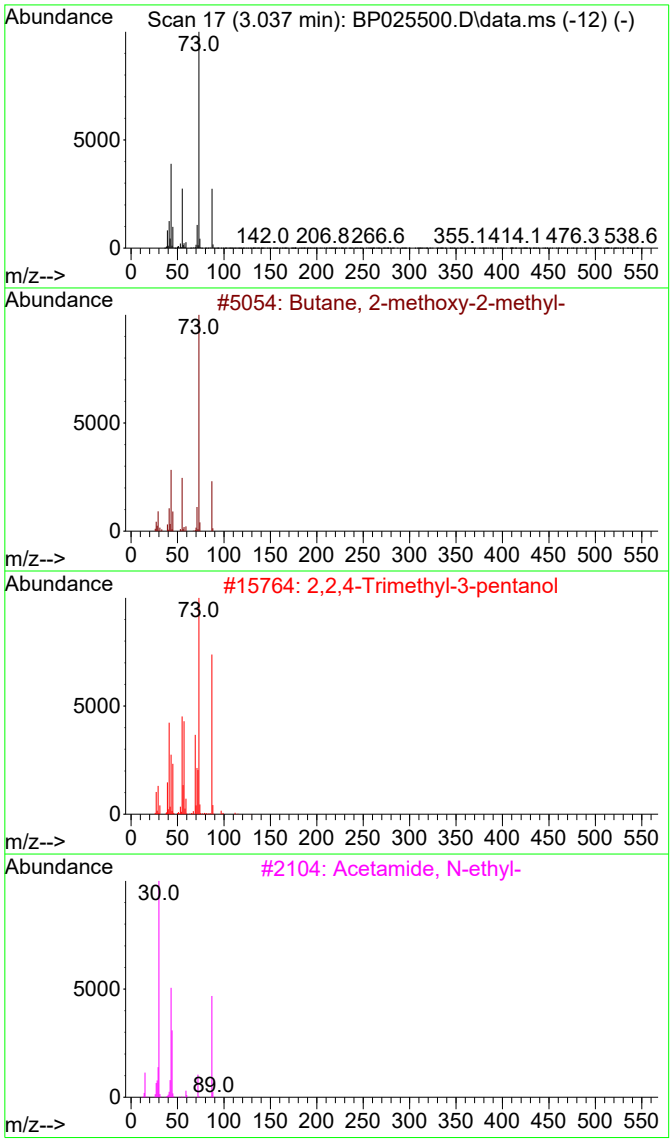
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

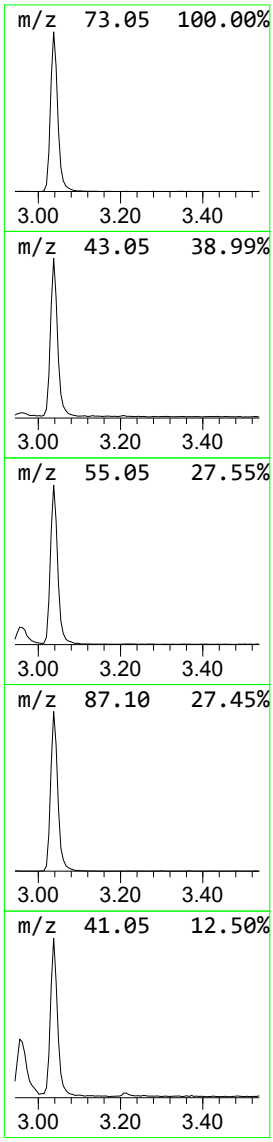
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.037	32.74 ng	1521060	1,4-Dichlorobenzene-d4	7.790

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	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	12
5	N-Ethylformamide	73	C3H7NO	000627-45-2	9





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Sample : Q2819-05
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
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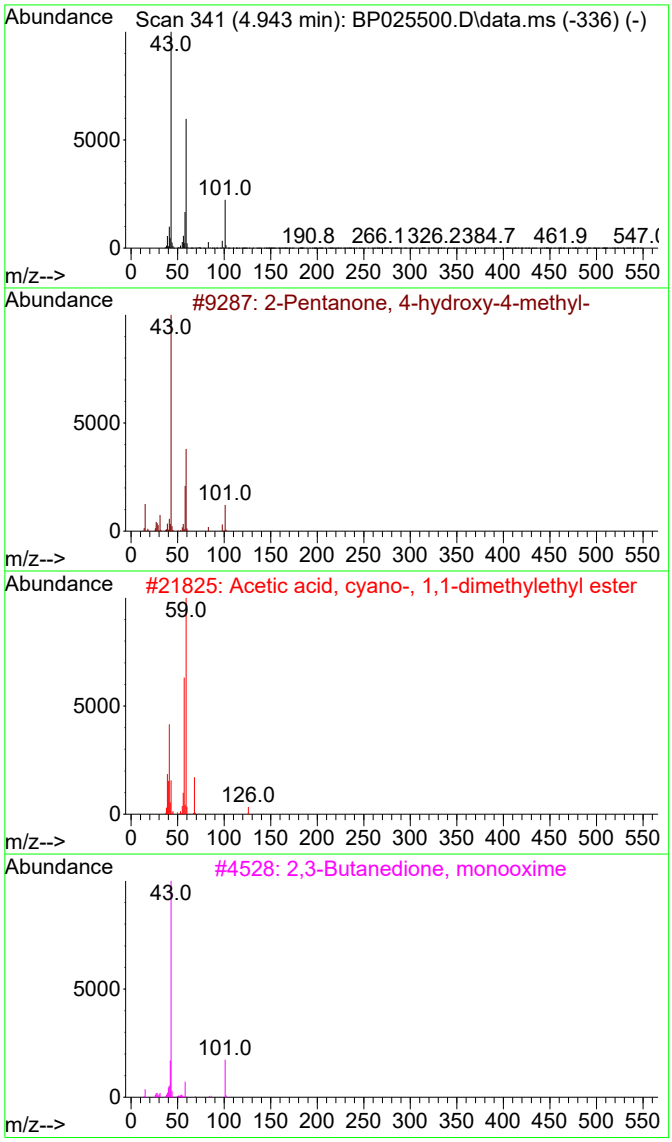
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

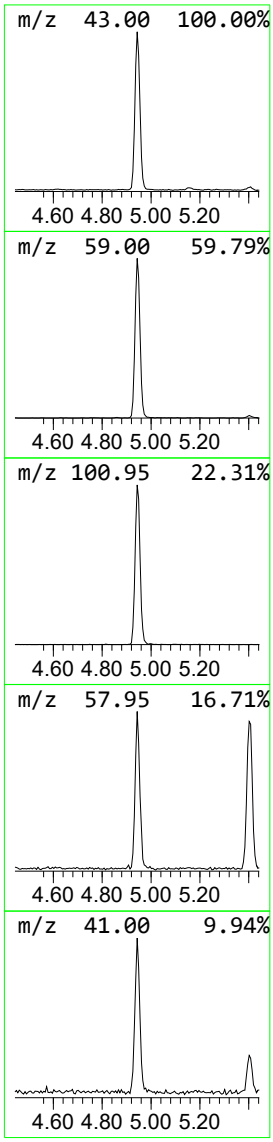
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.943	8.07 ng	375176	1,4-Dichlorobenzene-d4	7.790

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	40
2	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	25
3	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	12
4	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	10
5	Morpholine, 4-methyl-	101	C5H11NO	000109-02-4	9





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Sample : Q2819-05
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ALS Vial : 31 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
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Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

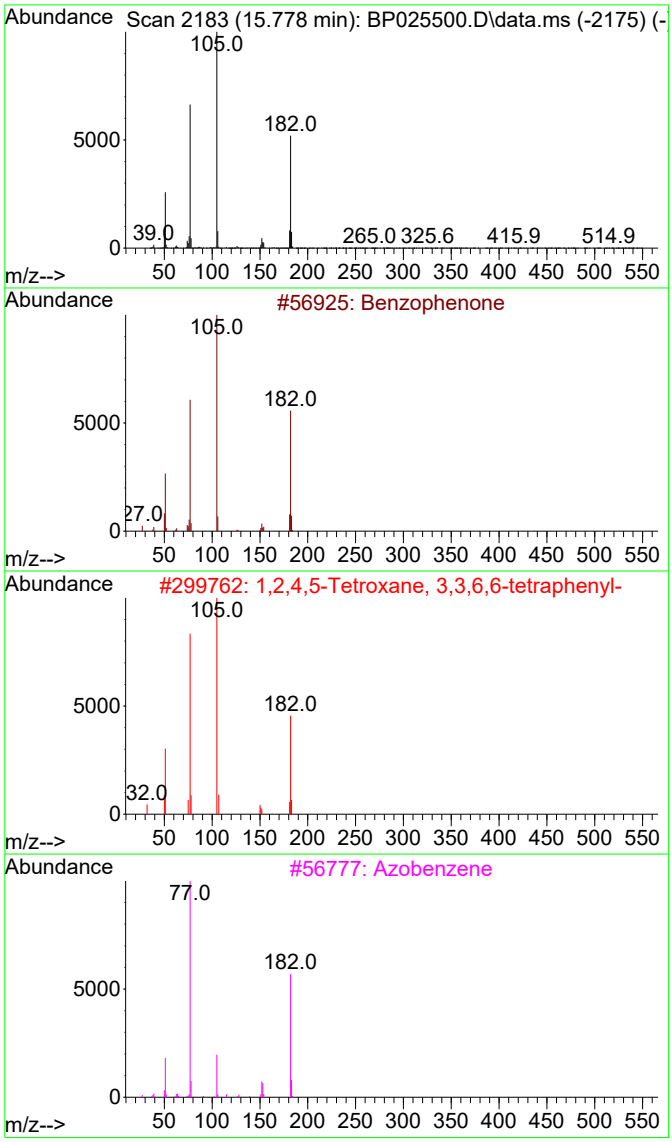
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

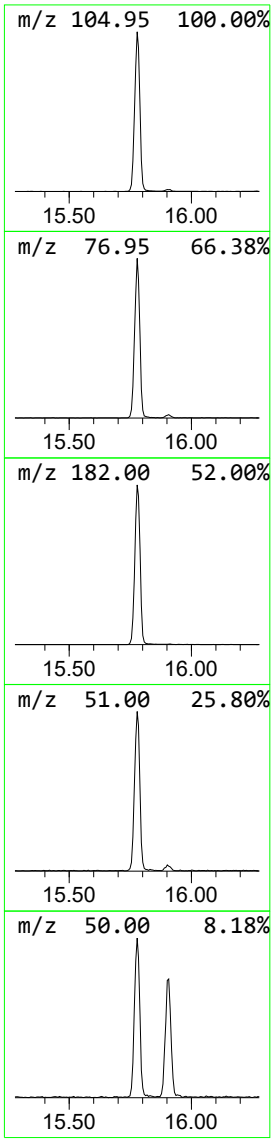
****

Peak Number 3 Benzophenone Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.778	11.11 ng	1013740	Acenaphthene-d10	14.401

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	64
3	Azobenzene	182	C12H10N2	000103-33-3	59
4	Methanone, phenyl-2-pyridinyl-	183	C12H9NO	000091-02-1	56
5	Benzenamine, N-(3-pyridinylmethy...	182	C12H10N2	029722-97-2	45





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Misc      :
ALS Vial  : 31   Sample Multiplier: 1

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Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library   : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P
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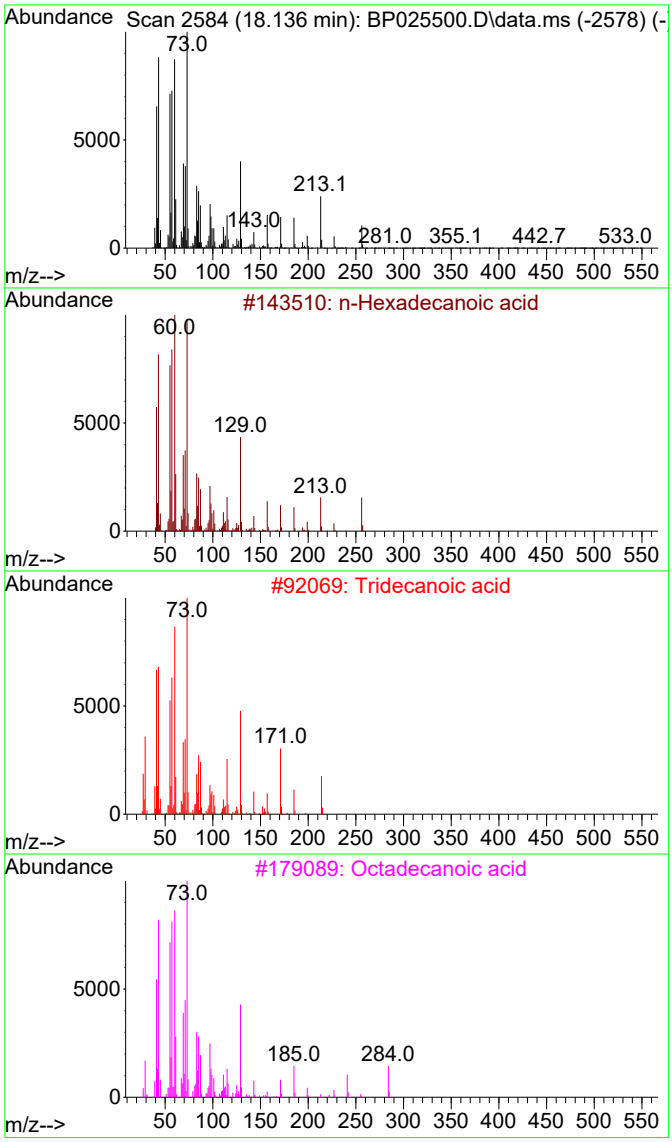
Instrument :
BNA_P
ClientSampleId :
11M-W

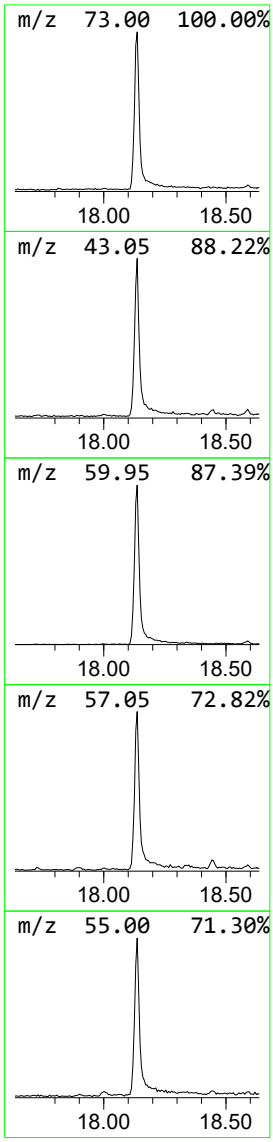
****

Peak Number 4 n-Hexadecanoic acid Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.136	7.83 ng	896574	Phenanthrene-d10	17.195

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	98
2	Tridecanoic acid	214	C13H26O2	000638-53-9	92
3	Octadecanoic acid	284	C18H36O2	000057-11-4	91
4	Pentadecanoic acid	242	C15H30O2	001002-84-2	91
5	Tetradecanoic acid	228	C14H28O2	000544-63-8	76





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ALS Vial : 31 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
11M-W

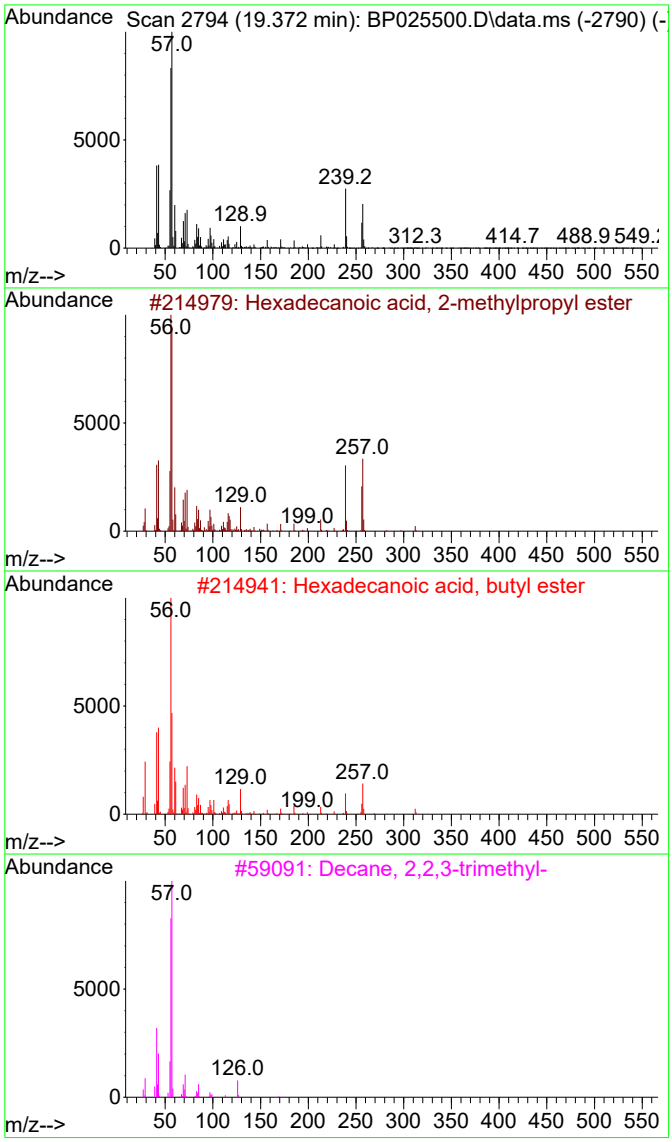
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

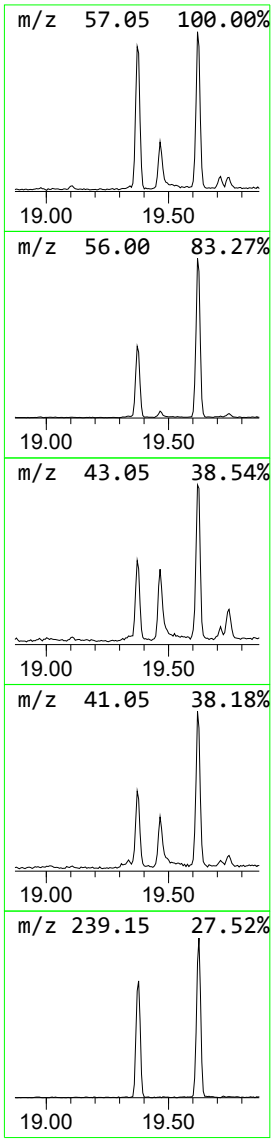
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 5 Hexadecanoic acid, 2-methyl... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.372	3.57 ng	408354	Phenanthrene-d10	17.195

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecanoic acid, 2-methylpropy...	312	C20H40O2	000110-34-9	87
2	Hexadecanoic acid, butyl ester	312	C20H40O2	000111-06-8	58
3	Decane, 2,2,3-trimethyl-	184	C13H28	062338-09-4	35
4	Heptane, 2,2,4-trimethyl-	142	C10H22	014720-74-2	35
5	Cyclopentanecarboxylic acid, 2-a...	129	C6H11NO2	037910-65-9	35





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Misc      :
ALS Vial  : 31   Sample Multiplier: 1

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Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library   : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P
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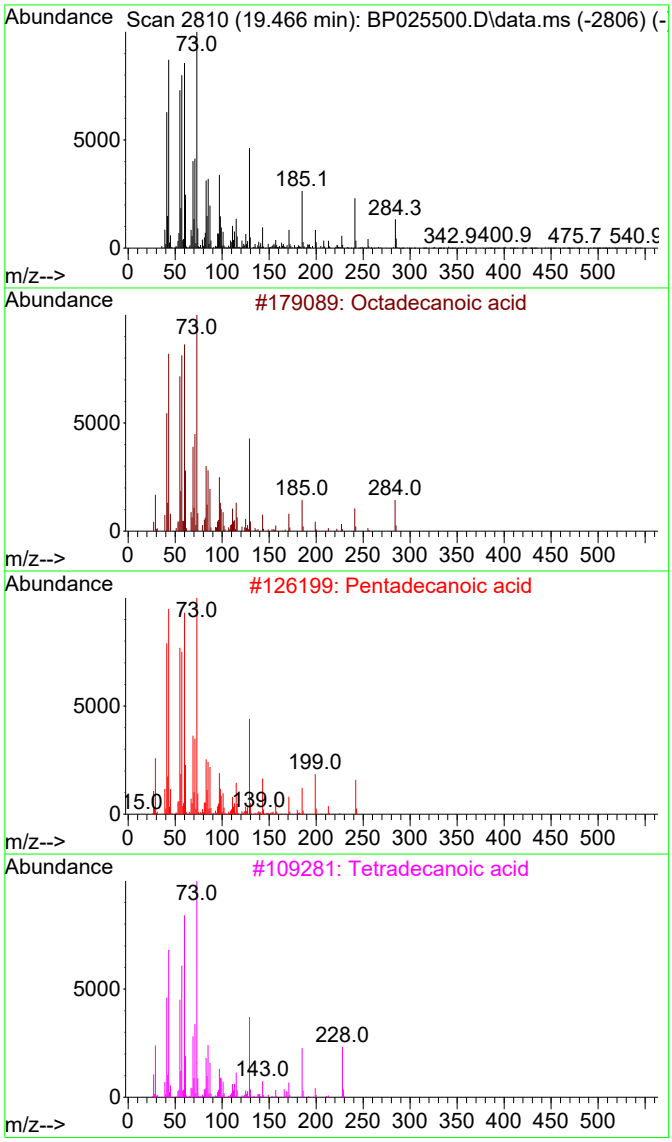
Instrument :
BNA_P
ClientSampleId :
11M-W

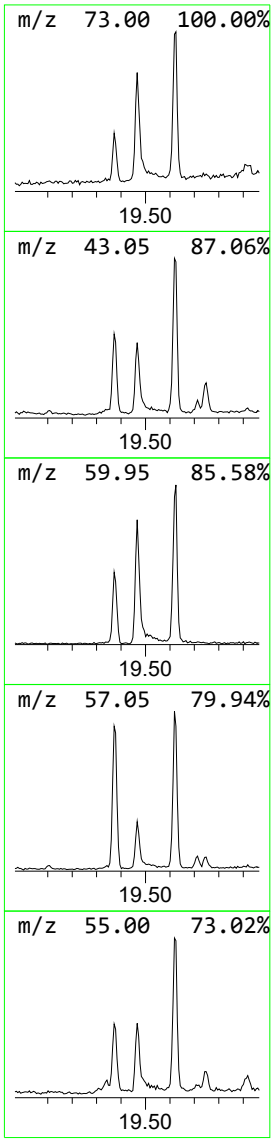
****

Peak Number 6 Octadecanoic acid Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.466	2.76 ng	369135	Chrysene-d12	21.636

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanoic acid	284	C18H36O2	000057-11-4	99
2	Pentadecanoic acid	242	C15H30O2	001002-84-2	90
3	Tetradecanoic acid	228	C14H28O2	000544-63-8	83
4	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	72
5	Tridecanoic acid	214	C13H26O2	000638-53-9	72





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Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library   : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P
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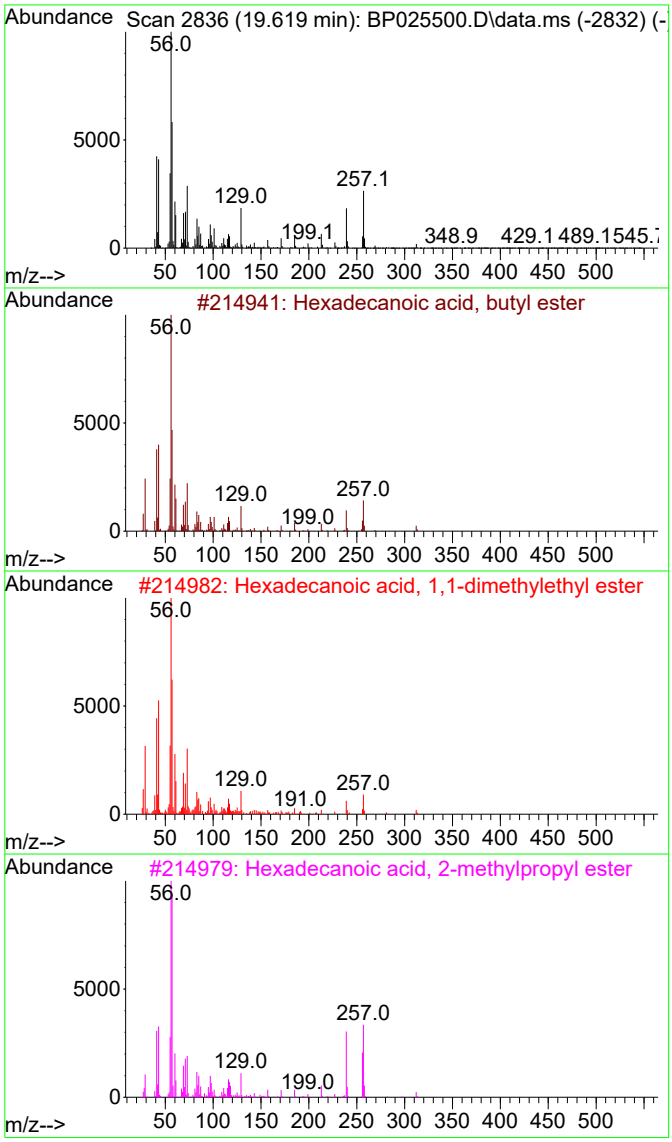
Instrument :
BNA_P
ClientSampleId :
11M-W

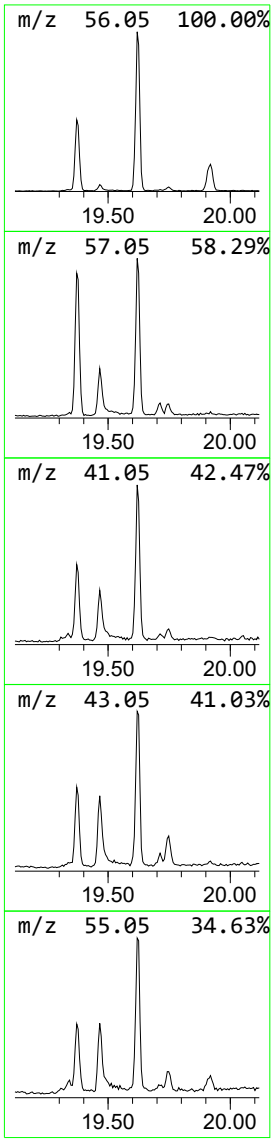
****

Peak Number 7 Hexadecanoic acid, butyl ester Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.619	5.76 ng	771036	Chrysene-d12	21.636

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecanoic acid, butyl ester	312	C20H40O2	000111-06-8	96
2	Hexadecanoic acid, 1,1-dimethyle...	312	C20H40O2	031158-91-5	96
3	Hexadecanoic acid, 2-methylpropy...	312	C20H40O2	000110-34-9	90
4	2,2-Dimethyl-1,3-butanediol	118	C6H14O2	000076-35-7	35
5	2-Methyl-n-1-tridecene	196	C14H28	018094-01-4	35





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Instrument :
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ClientSampleId :
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Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

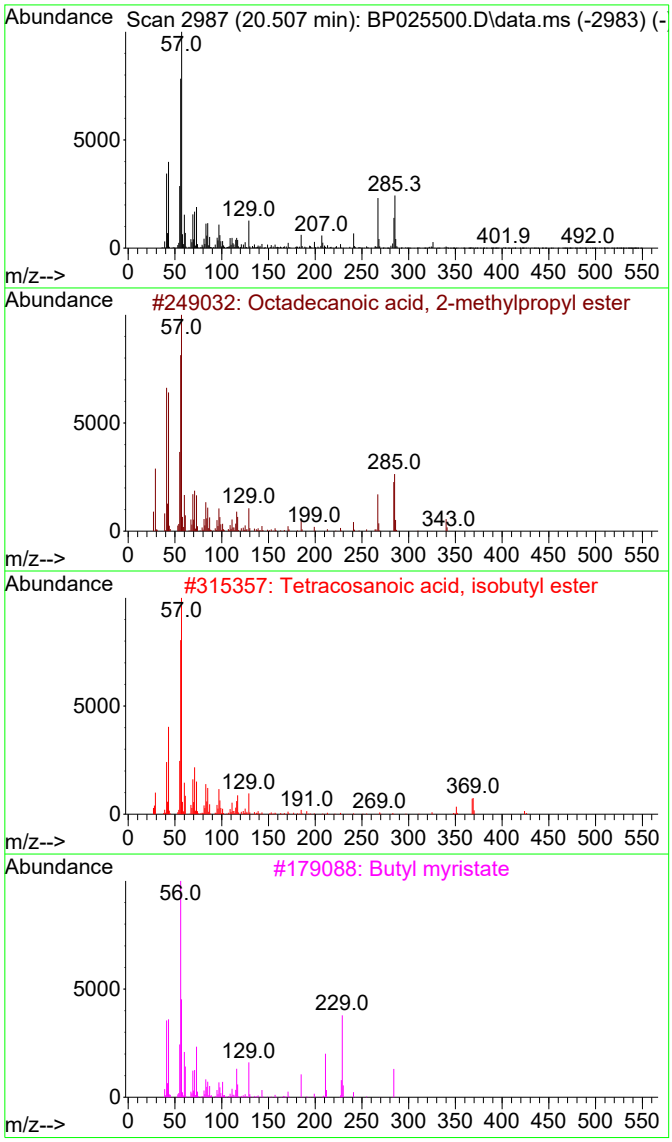
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

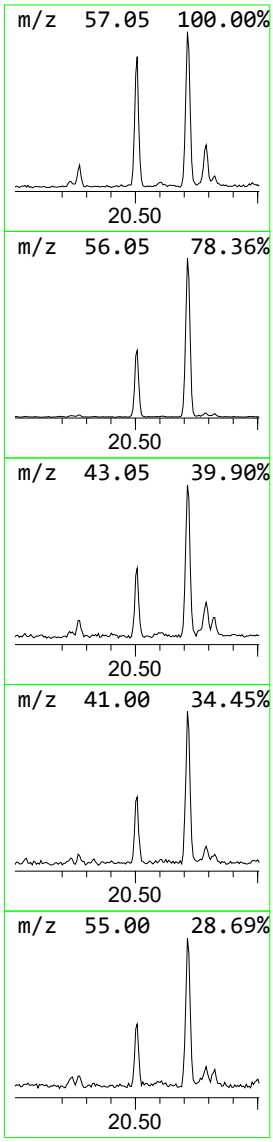
****

Peak Number 8 Octadecanoic acid, 2-methyl... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.507	2.12 ng	283794	Chrysene-d12	21.636

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanoic acid, 2-methylpropy...	340	C22H44O2	000646-13-9	86
2	Tetracosanoic acid, isobutyl ester	424	C28H56O2	1010405-17-3	60
3	Butyl myristate	284	C18H36O2	000110-36-1	58
4	2-(Piperazin-1-yl)-5,6,7,8-tetra...	267	C15H17N5	1000409-75-8	43
5	Decane, 2,2,3-trimethyl-	184	C13H28	062338-09-4	35





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Sample : Q2819-05
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
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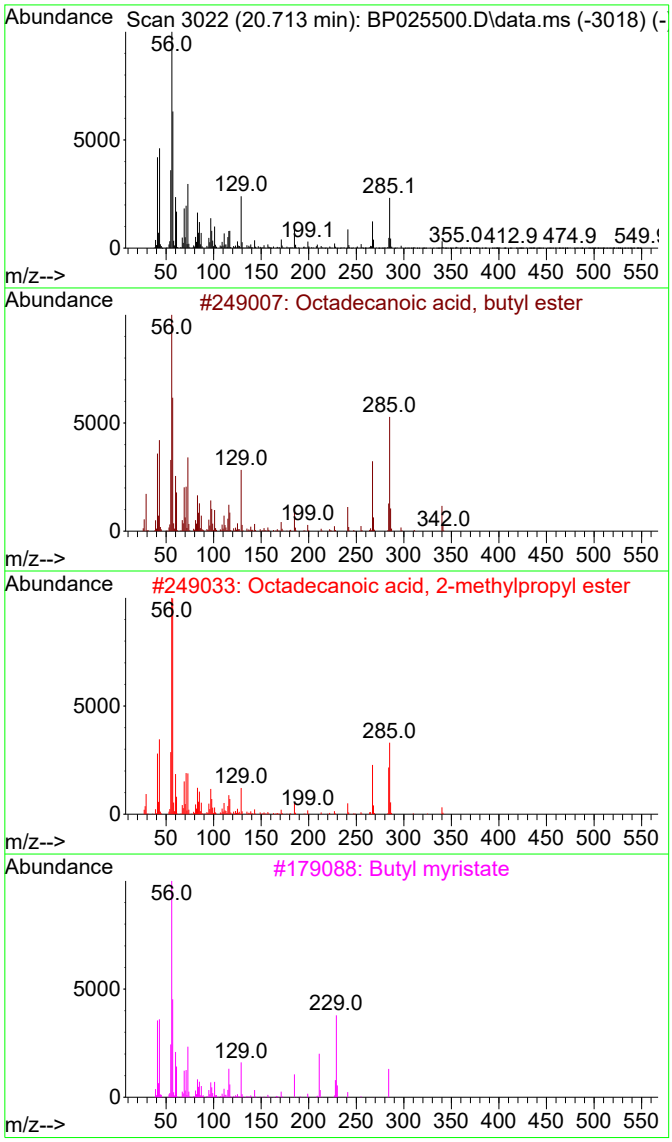
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

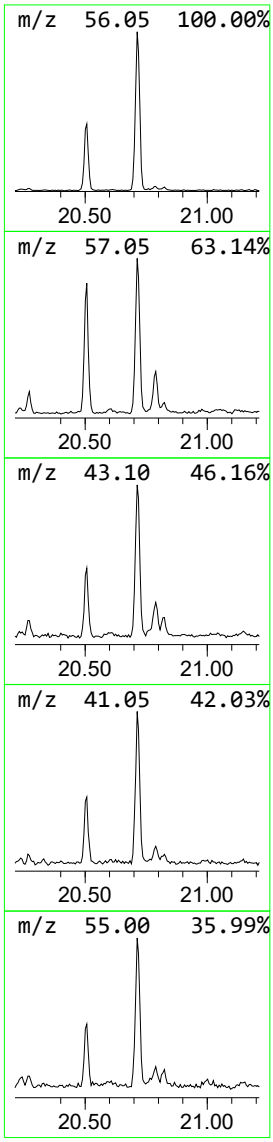
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 9 Octadecanoic acid, butyl ester Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.713	4.62 ng	617788	Chrysene-d12	21.636

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanoic acid, butyl ester	340	C22H44O2	000123-95-5	99
2	Octadecanoic acid, 2-methylpropy...	340	C22H44O2	000646-13-9	70
3	Butyl myristate	284	C18H36O2	000110-36-1	68
4	Cyclohexylamine	99	C6H13N	000108-91-8	30
5	Cyclobutane, 1-hexyl-2,3-dimethyl-	168	C12H24	055170-84-8	27





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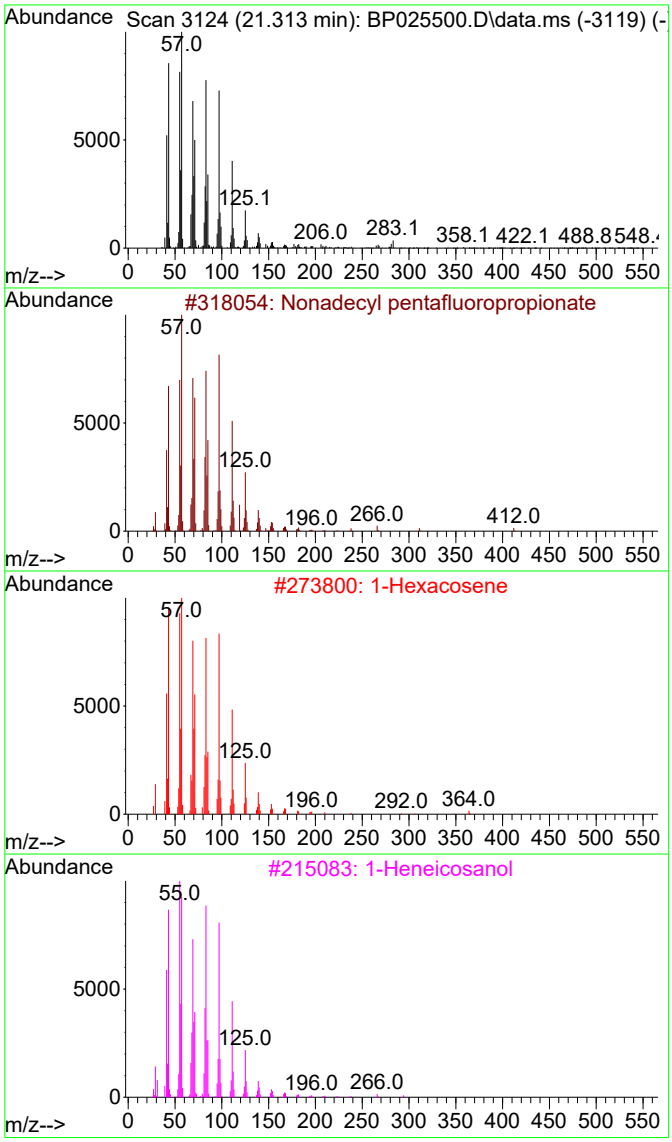
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

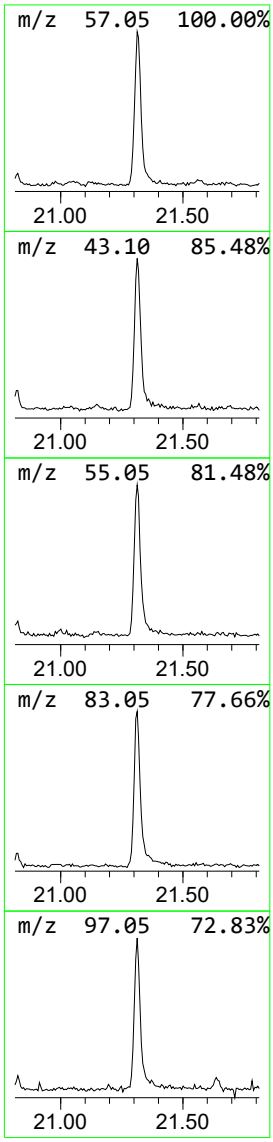
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 10 Nonadecyl pentafluoropropio... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.313	5.10 ng	682836	Chrysene-d12	21.636

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nonadecyl pentafluoropropionate	430	C22H39F5O2	1000351-88-8	94
2	1-Hexacosene	364	C26H52	018835-33-1	94
3	1-Heneicosanol	312	C21H44O	015594-90-8	93
4	Ethanol, 2-(tetradecyloxy)-	258	C16H34O2	002136-70-1	93
5	n-Tetracosanol-1	354	C24H50O	000506-51-4	93





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					--Internal Standard---			
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2-Pentanone, 4-...	4.943	8.1	ng	375176	1	7.790	929314	20.0
Benzophenone	15.778	11.1	ng	1013740	3	14.401	1824850	20.0
n-Hexadecanoic ...	18.136	7.8	ng	896574	4	17.195	2290280	20.0
Hexadecanoic ac...	19.372	3.6	ng	408354	4	17.195	2290280	20.0
Octadecanoic acid	19.466	2.8	ng	369135	5	21.636	2675770	20.0
Hexadecanoic ac...	19.619	5.8	ng	771036	5	21.636	2675770	20.0
Octadecanoic ac...	20.507	2.1	ng	283794	5	21.636	2675770	20.0
Octadecanoic ac...	20.713	4.6	ng	617788	5	21.636	2675770	20.0
Nonadecyl penta...	21.313	5.1	ng	682836	5	21.636	2675770	20.0

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Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	11M-S	SDG No.:	Q2819
Lab Sample ID:	Q2819-06	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	90.5
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
BF143532.D	1	08/14/25 08:40	08/21/25 16:09	PB169242

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
100-52-7	Benzaldehyde	300	U	170	300	360	ug/Kg
108-95-2	Phenol	140	U	24.4	140	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	140	U	26.8	140	190	ug/Kg
95-57-8	2-Chlorophenol	140	U	26.9	140	190	ug/Kg
95-48-7	2-Methylphenol	140	U	33.0	140	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	140	U	41.3	140	190	ug/Kg
98-86-2	Acetophenone	140	U	32.5	140	190	ug/Kg
65794-96-9	3+4-Methylphenols	300	U	45.3	300	360	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	88.2	U	52.3	88.2	88.2	ug/Kg
67-72-1	Hexachloroethane	140	U	19.4	140	190	ug/Kg
98-95-3	Nitrobenzene	140	U	20.2	140	190	ug/Kg
78-59-1	Isophorone	140	U	36.2	140	190	ug/Kg
88-75-5	2-Nitrophenol	140	U	64.2	140	190	ug/Kg
105-67-9	2,4-Dimethylphenol	140	U	71.4	140	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	140	U	34.0	140	190	ug/Kg
120-83-2	2,4-Dichlorophenol	140	U	31.2	140	190	ug/Kg
91-20-3	Naphthalene	140	U	25.0	140	190	ug/Kg
106-47-8	4-Chloroaniline	140	U	39.0	140	190	ug/Kg
87-68-3	Hexachlorobutadiene	140	U	27.9	140	190	ug/Kg
105-60-2	Caprolactam	300	U	57.4	300	360	ug/Kg
59-50-7	4-Chloro-3-methylphenol	140	U	31.6	140	190	ug/Kg
91-57-6	2-Methylnaphthalene	140	U	28.2	140	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	300	U	130	300	360	ug/Kg
88-06-2	2,4,6-Trichlorophenol	140	U	21.8	140	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	140	U	32.1	140	190	ug/Kg
92-52-4	1,1-Biphenyl	140	U	24.0	140	190	ug/Kg
91-58-7	2-Chloronaphthalene	140	U	24.8	140	190	ug/Kg
88-74-4	2-Nitroaniline	140	U	53.0	140	190	ug/Kg
131-11-3	Dimethylphthalate	140	U	29.9	140	190	ug/Kg

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Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	11M-S	SDG No.:	Q2819
Lab Sample ID:	Q2819-06	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	90.5
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
BF143532.D	1	08/14/25 08:40	08/21/25 16:09	PB169242

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	140	U	31.9	140	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	140	U	37.0	140	190	ug/Kg
99-09-2	3-Nitroaniline	140	U	50.7	140	190	ug/Kg
83-32-9	Acenaphthene	140	U	23.5	140	190	ug/Kg
51-28-5	2,4-Dinitrophenol	300	U	250	300	360	ug/Kg
100-02-7	4-Nitrophenol	300	U	120	300	360	ug/Kg
132-64-9	Dibenzofuran	140	U	25.0	140	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	140	U	55.2	140	190	ug/Kg
84-66-2	Diethylphthalate	140	U	31.2	140	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	140	U	29.4	140	190	ug/Kg
86-73-7	Fluorene	140	U	27.9	140	190	ug/Kg
100-01-6	4-Nitroaniline	140	U	70.8	140	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	300	U	110	300	360	ug/Kg
86-30-6	n-Nitrosodiphenylamine	140	U	36.3	140	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	140	U	30.6	140	190	ug/Kg
118-74-1	Hexachlorobenzene	140	U	27.9	140	190	ug/Kg
1912-24-9	Atrazine	140	U	37.5	140	190	ug/Kg
87-86-5	Pentachlorophenol	300	U	56.6	300	360	ug/Kg
85-01-8	Phenanthrene	140	U	23.0	140	190	ug/Kg
120-12-7	Anthracene	140	U	36.7	140	190	ug/Kg
86-74-8	Carbazole	140	U	34.4	140	190	ug/Kg
84-74-2	Di-n-butylphthalate	140	U	52.8	140	190	ug/Kg
206-44-0	Fluoranthene	140	U	33.1	140	190	ug/Kg
129-00-0	Pyrene	140	U	39.7	140	190	ug/Kg
85-68-7	Butylbenzylphthalate	140	U	78.7	140	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	300	U	40.5	300	360	ug/Kg
56-55-3	Benzo(a)anthracene	140	U	25.4	140	190	ug/Kg
218-01-9	Chrysene	140	U	21.9	140	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	140	U	65.3	140	190	ug/Kg
117-84-0	Di-n-octyl phthalate	300	U	95.7	300	360	ug/Kg
205-99-2	Benzo(b)fluoranthene	140	U	20.9	140	190	ug/Kg

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Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	11M-S	SDG No.:	Q2819
Lab Sample ID:	Q2819-06	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	90.5
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
BF143532.D	1	08/14/25 08:40	08/21/25 16:09	PB169242

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	140	U	24.7	140	190	ug/Kg
50-32-8	Benzo(a)pyrene	140	U	32.5	140	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	140	U	32.1	140	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	140	U	30.2	140	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	140	U	28.3	140	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	140	U	28.2	140	190	ug/Kg
123-91-1	1,4-Dioxane	140	UQ	49.8	140	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	140	U	30.2	140	190	ug/Kg
SURROGATES							
367-12-4	2-Fluorophenol	81.4		35 - 115		54%	SPK: 150
13127-88-3	Phenol-d6	83.1		34 - 127		55%	SPK: 150
4165-60-0	Nitrobenzene-d5	60.4		37 - 122		60%	SPK: 100
321-60-8	2-Fluorobiphenyl	57.5		44 - 115		58%	SPK: 100
118-79-6	2,4,6-Tribromophenol	80.2		39 - 132		53%	SPK: 150
1718-51-0	Terphenyl-d14	48.2	*	54 - 127		48%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	125000	6.928				
1146-65-2	Naphthalene-d8	464000	8.204				
15067-26-2	Acenaphthene-d10	241000	9.963				
1517-22-2	Phenanthrene-d10	350000	11.451				
1719-03-5	Chrysene-d12	236000	14.092				
1520-96-3	Perylene-d12	279000	15.592				
TENTATIVE IDENTIFIED COMPOUNDS							
000994-05-8	Butane, 2-methoxy-2-methyl-	1200	J			2.27	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	230	AB			5.16	ug/Kg
000119-61-9	Benzophenone	200	J			10.7	ug/Kg
000111-06-8	Hexadecanoic acid, butyl ester	81.9	JB			12.9	ug/Kg

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Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	11M-S	SDG No.:	Q2819
Lab Sample ID:	Q2819-06	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	90.5
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
BF143532.D	1	08/14/25 08:40	08/21/25 16:09	PB169242

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	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\BF082125\
Data File : BF143532.D
Acq On : 21 Aug 2025 16:09
Operator : RC/JU
Sample : Q2819-06
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
11M-S

Quant Time: Aug 21 16:54:09 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 21 06:12:21 2025
Response via : Initial Calibration

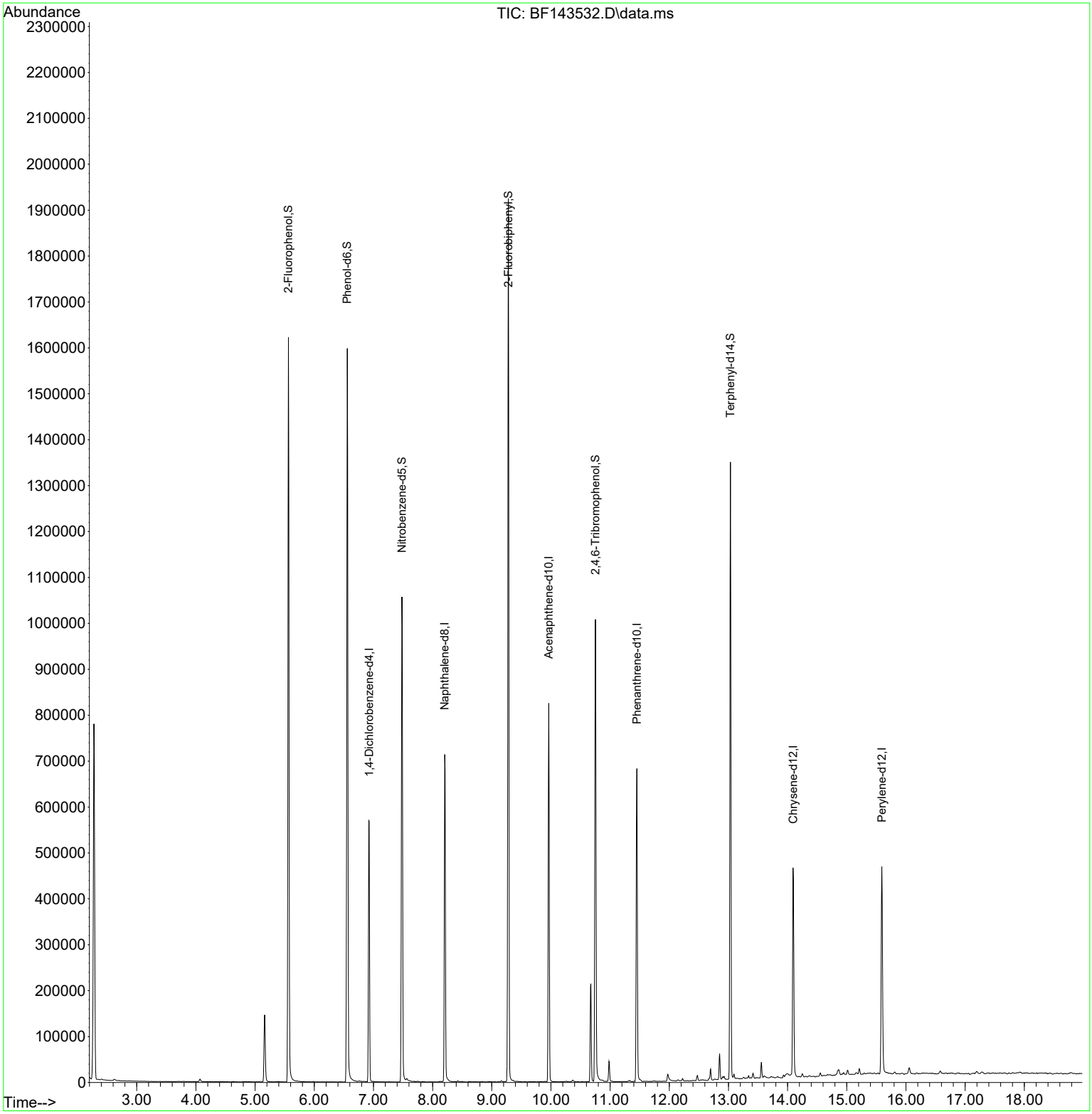
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.928	152	125064	20.000	ng	0.00
21) Naphthalene-d8	8.204	136	464209	20.000	ng	0.00
39) Acenaphthene-d10	9.963	164	240984	20.000	ng	0.00
64) Phenanthrene-d10	11.451	188	350001	20.000	ng	0.00
76) Chrysene-d12	14.092	240	235917	20.000	ng	-0.01
86) Perylene-d12	15.592	264	279272	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.563	112	583118	81.416	ng	0.00
7) Phenol-d6	6.557	99	734853	83.115	ng	-0.02
23) Nitrobenzene-d5	7.481	82	480789	60.439	ng	-0.02
42) 2,4,6-Tribromophenol	10.751	330	179936	80.214	ng	-0.01
45) 2-Fluorobiphenyl	9.280	172	838627	57.513	ng	0.00
79) Terphenyl-d14	13.033	244	651328	48.178	ng	0.00
Target Compounds						Qvalue

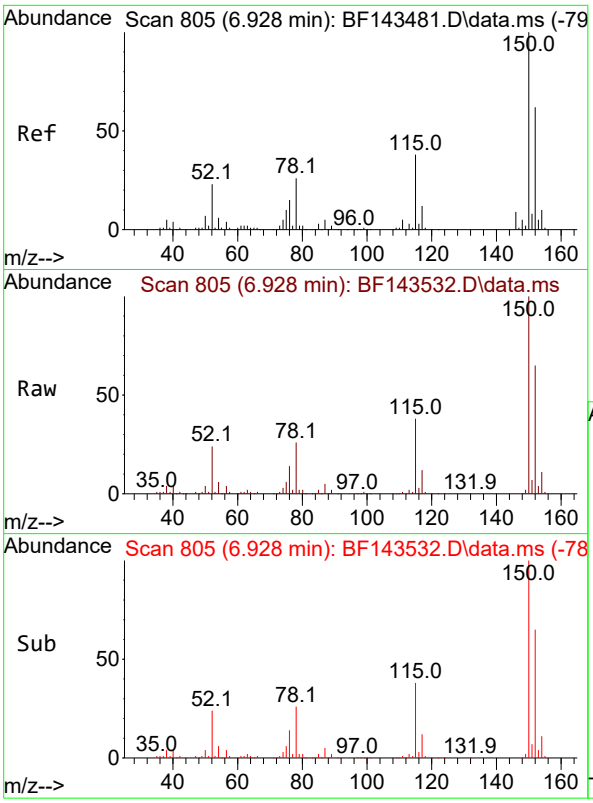
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
Data File : BF143532.D
Acq On : 21 Aug 2025 16:09
Operator : RC/JU
Sample : Q2819-06
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
11M-S

Quant Time: Aug 21 16:54:09 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 21 06:12:21 2025
Response via : Initial Calibration



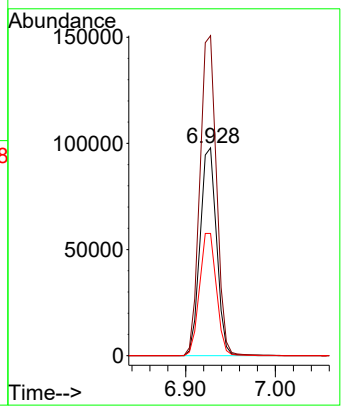


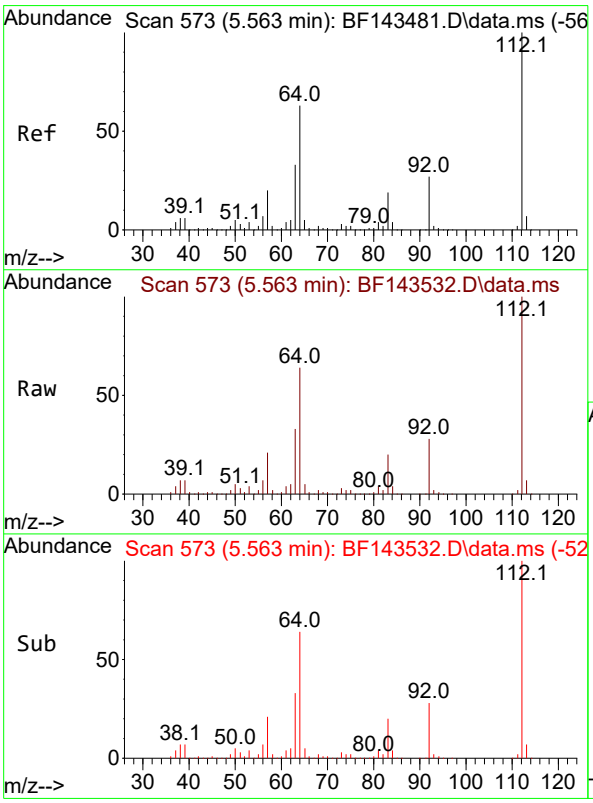
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.928 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF143532.D
Acq: 21 Aug 2025 16:09

Instrument :
BNA_F
ClientSampleId :
11M-S

Tgt Ion:152 Resp: 125064

Ion	Ratio	Lower	Upper
152	100		
150	154.0	128.9	193.3
115	58.9	49.2	73.8

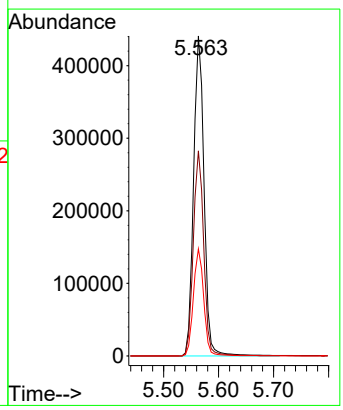


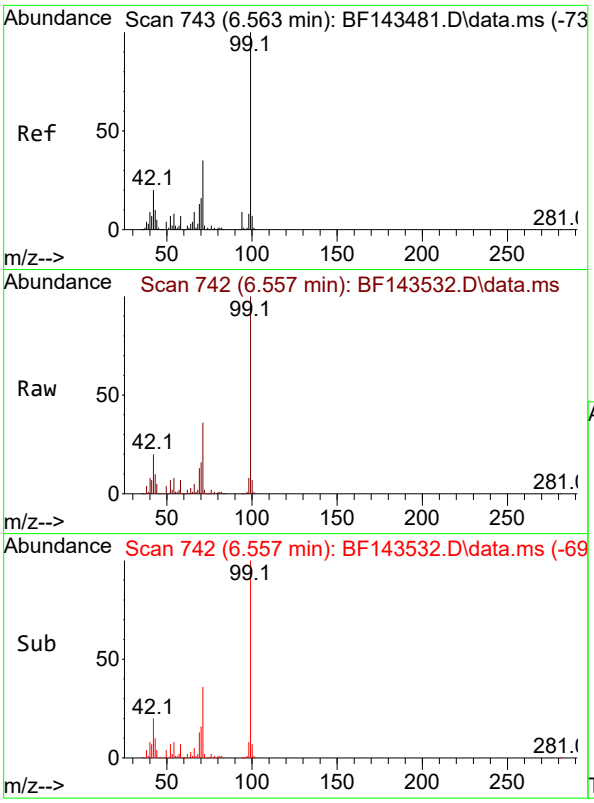


#5
2-Fluorophenol
Concen: 81.416 ng
RT: 5.563 min Scan# 573
Delta R.T. -0.000 min
Lab File: BF143532.D
Acq: 21 Aug 2025 16:09

Tgt Ion:112 Resp: 583118

Ion	Ratio	Lower	Upper
112	100		
64	64.1	50.4	75.6
63	33.5	26.4	39.6



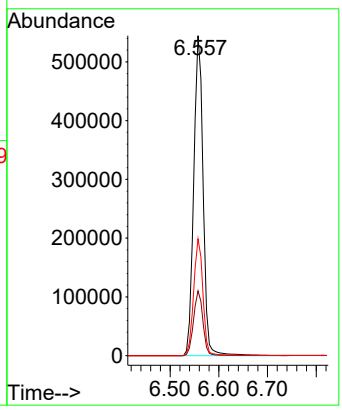


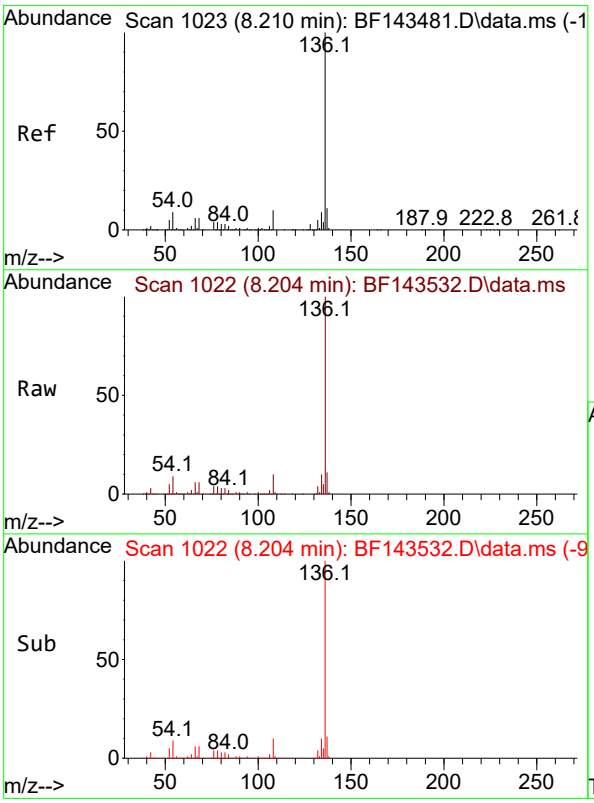
#7
Phenol-d6
Concen: 83.115 ng
RT: 6.557 min Scan# 7
Delta R.T. -0.018 min
Lab File: BF143532.D
Acq: 21 Aug 2025 16:09

Instrument :
BNA_F
ClientSampleId :
11M-S

Tgt Ion: 99 Resp: 734853

Ion	Ratio	Lower	Upper
99	100		
42	20.3	16.3	24.5
71	36.5	28.2	42.2

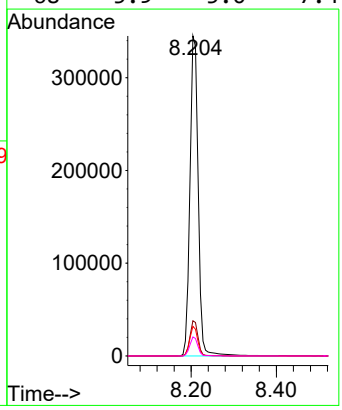


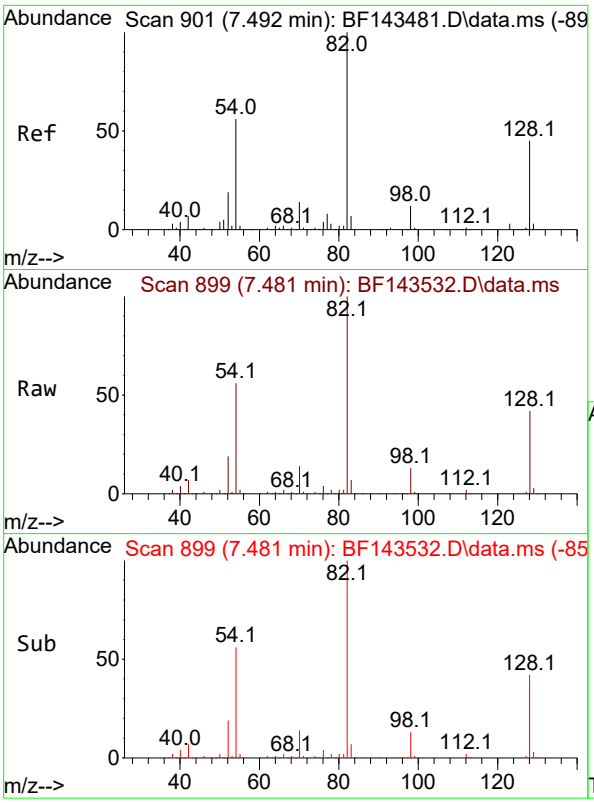


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.204 min Scan# 1022
Delta R.T. -0.006 min
Lab File: BF143532.D
Acq: 21 Aug 2025 16:09

Tgt Ion:136 Resp: 464209

Ion	Ratio	Lower	Upper
136	100		
137	11.0	9.0	13.4
54	9.3	7.4	11.2
68	5.9	5.0	7.4



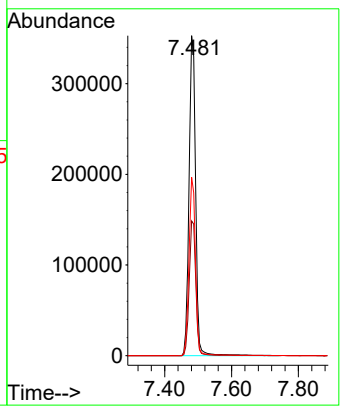


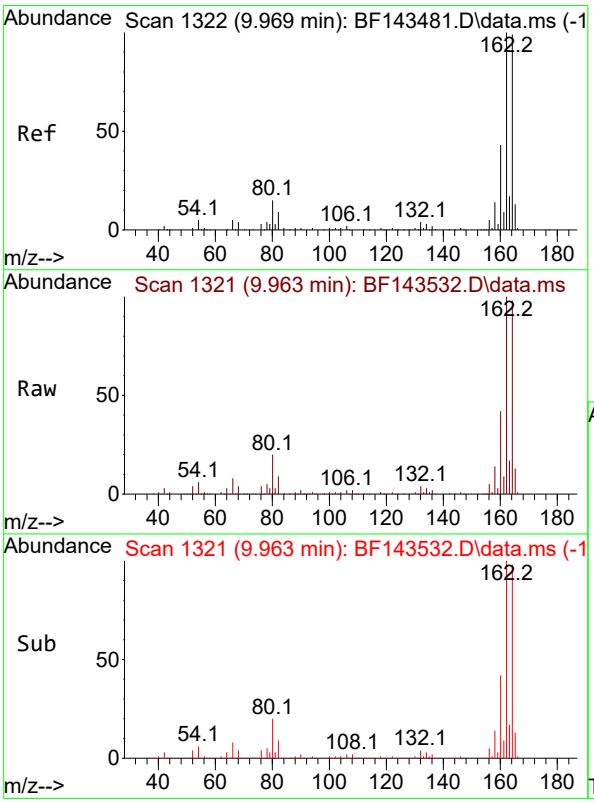
#23
Nitrobenzene-d5
Concen: 60.439 ng
RT: 7.481 min Scan# 8
Delta R.T. -0.018 min
Lab File: BF143532.D
Acq: 21 Aug 2025 16:09

Instrument :
BNA_F
ClientSampleId :
11M-S

Tgt Ion: 82 Resp: 480789

Ion	Ratio	Lower	Upper
82	100		
128	42.1	35.5	53.3
54	55.7	44.3	66.5

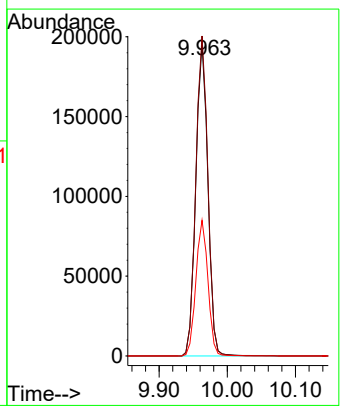


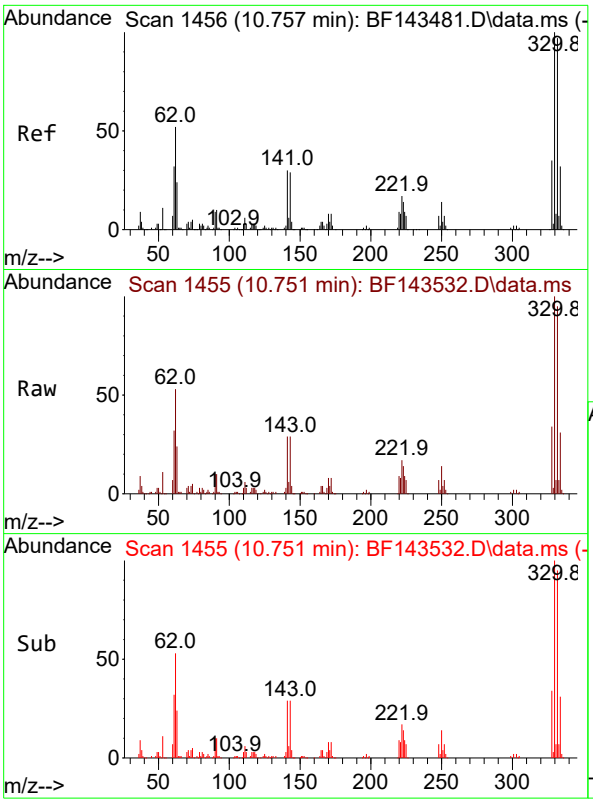


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.963 min Scan# 1321
Delta R.T. -0.006 min
Lab File: BF143532.D
Acq: 21 Aug 2025 16:09

Tgt Ion:164 Resp: 240984

Ion	Ratio	Lower	Upper
164	100		
162	102.5	80.5	120.7
160	43.5	34.3	51.5



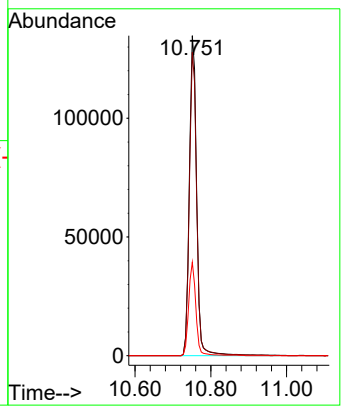


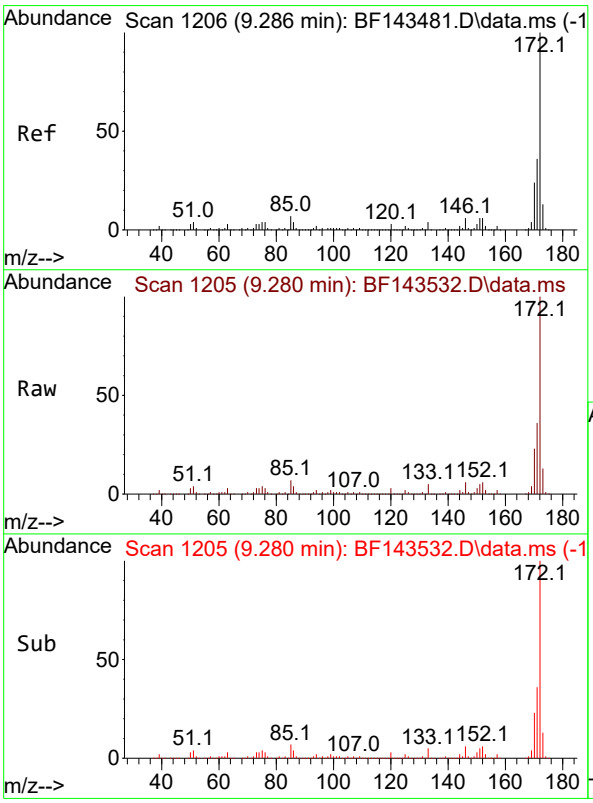
#42
2,4,6-Tribromophenol
Concen: 80.214 ng
RT: 10.751 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF143532.D
Acq: 21 Aug 2025 16:09

Instrument :
BNA_F
ClientSampleId :
11M-S

Tgt Ion:330 Resp: 179936

Ion	Ratio	Lower	Upper
330	100		
332	94.3	78.0	117.0
141	29.0	23.7	35.5

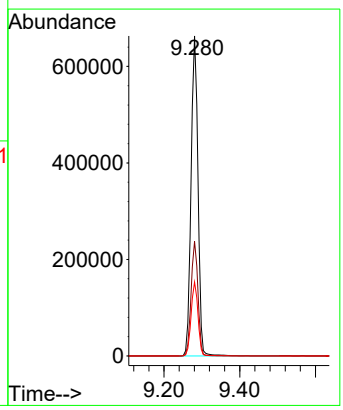


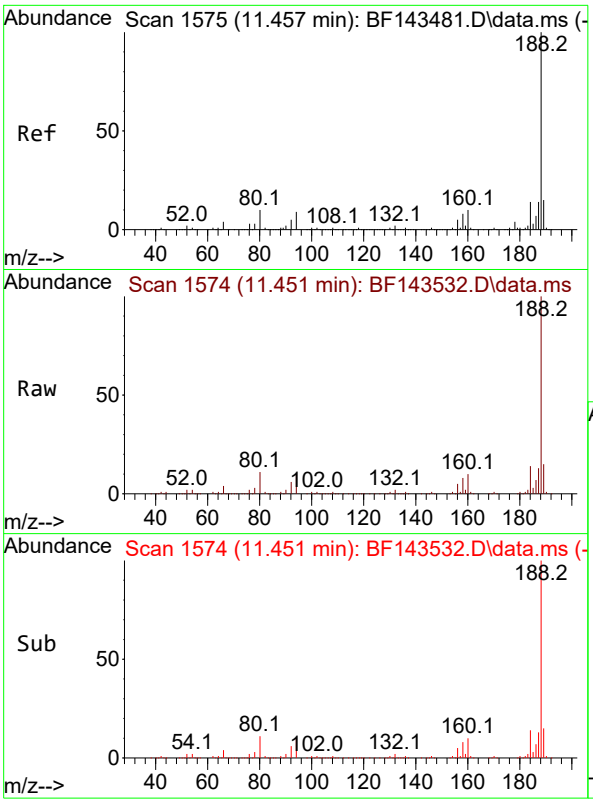


#45
2-Fluorobiphenyl
Concen: 57.513 ng
RT: 9.280 min Scan# 1205
Delta R.T. -0.006 min
Lab File: BF143532.D
Acq: 21 Aug 2025 16:09

Tgt Ion:172 Resp: 838627

Ion	Ratio	Lower	Upper
172	100		
171	35.8	28.8	43.2
170	23.1	18.8	28.2



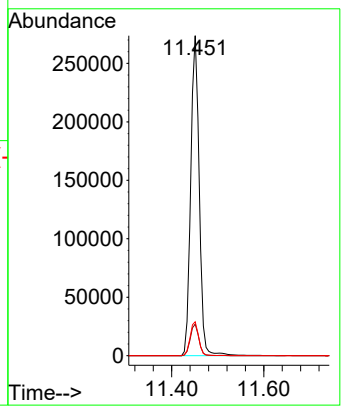


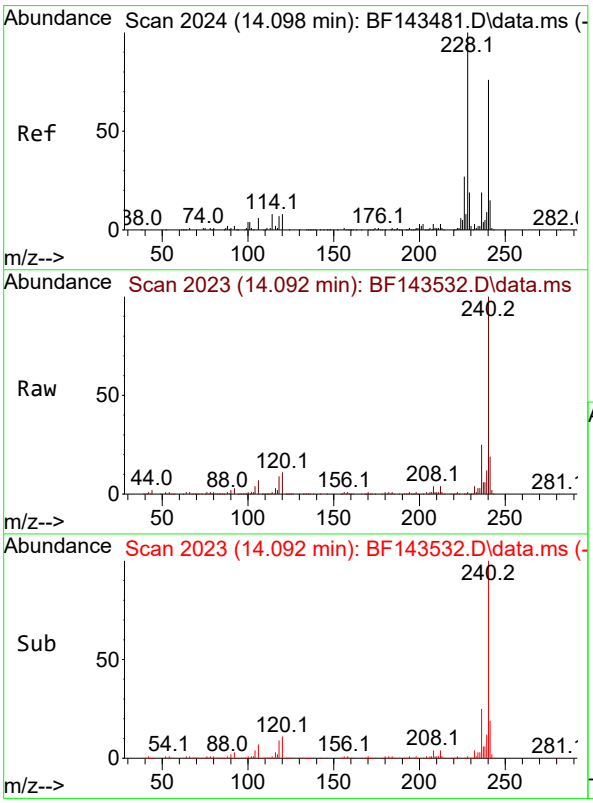
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.451 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143532.D
Acq: 21 Aug 2025 16:09

Instrument :
BNA_F
ClientSampleId :
11M-S

Tgt Ion:188 Resp: 350001

Ion	Ratio	Lower	Upper
188	100		
94	9.9	7.4	11.2
80	10.6	8.2	12.4

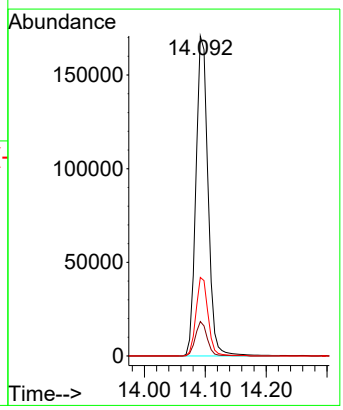


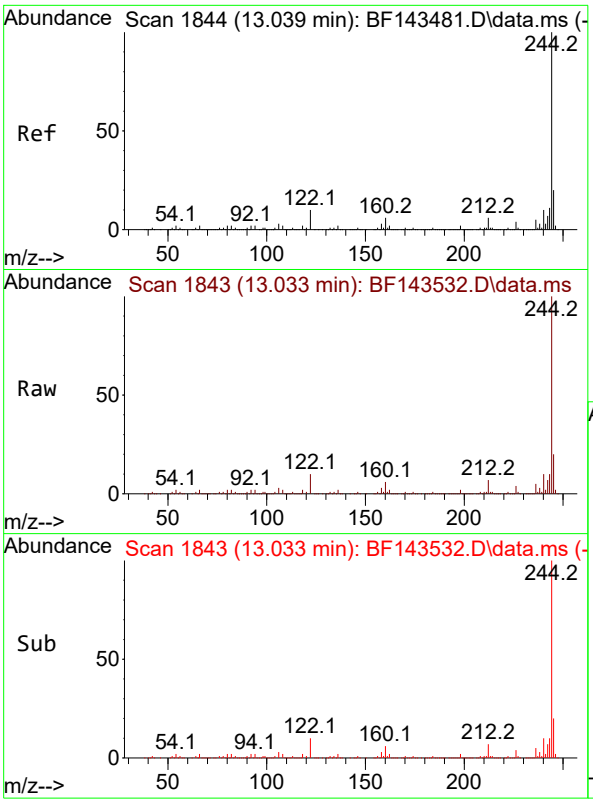


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.092 min Scan# 2023
Delta R.T. -0.012 min
Lab File: BF143532.D
Acq: 21 Aug 2025 16:09

Tgt Ion:240 Resp: 235917

Ion	Ratio	Lower	Upper
240	100		
120	10.8	8.6	12.8
236	24.6	20.4	30.6



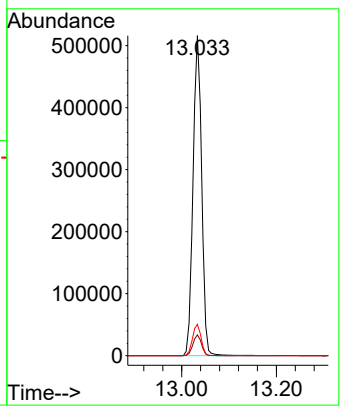


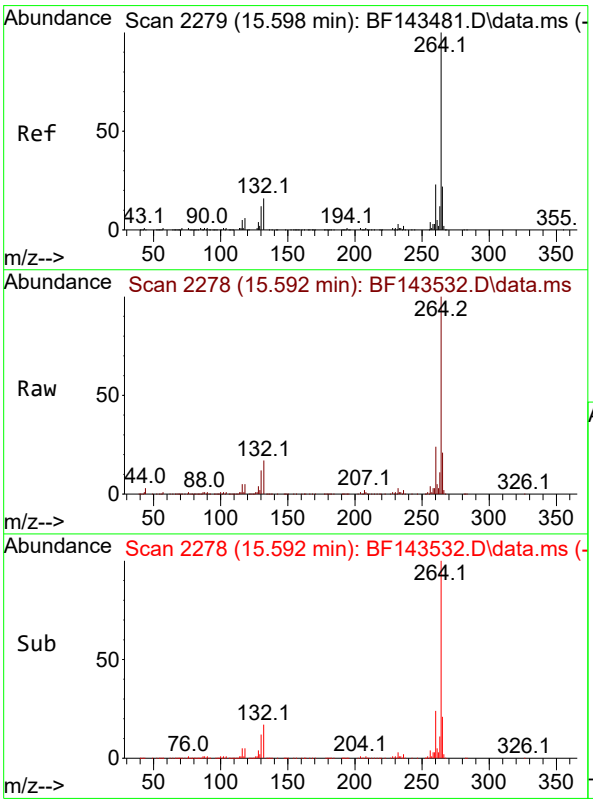
#79
Terphenyl-d14
Concen: 48.178 ng
RT: 13.033 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143532.D
Acq: 21 Aug 2025 16:09

Instrument :
BNA_F
ClientSampleId :
11M-S

Tgt Ion:244 Resp: 651328

Ion	Ratio	Lower	Upper
244	100		
212	6.5	5.2	7.8
122	9.8	7.9	11.9

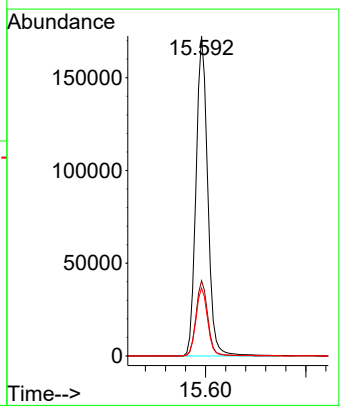




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.592 min Scan# 2278
Delta R.T. -0.006 min
Lab File: BF143532.D
Acq: 21 Aug 2025 16:09

Tgt Ion:264 Resp: 279272

Ion	Ratio	Lower	Upper
264	100		
260	23.5	18.7	28.1
265	21.2	17.6	26.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
Data File : BF143532.D
Acq On : 21 Aug 2025 16:09
Operator : RC/JU
Sample : Q2819-06
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
11M-S

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-BF082025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF143532.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.275	6	14	24	rVB	774263	1238053	51.71%	6.873%
2	5.163	494	505	517	rBV	145420	230949	9.65%	1.282%
3	5.563	568	573	595	rBV	1621753	2129402	88.94%	11.821%
4	6.557	736	742	764	rBV	1597549	2161625	90.29%	12.000%
5	6.922	799	804	813	rBV	568947	735781	30.73%	4.084%
6	7.481	893	899	910	rBV	1056381	1417511	59.21%	7.869%
7	8.204	1017	1022	1047	rVB	712802	946595	39.54%	5.255%
8	9.280	1199	1205	1210	rBV	1922461	2394069	100.00%	13.290%
9	9.963	1316	1321	1333	rBV	824334	1011845	42.26%	5.617%
10	10.675	1437	1442	1450	rBV	213467	276189	11.54%	1.533%
11	10.751	1450	1455	1472	rBV	1005860	1312384	54.82%	7.285%
12	10.980	1487	1494	1502	rBV	43370	56728	2.37%	0.315%
13	11.451	1569	1574	1591	rBV	681435	867316	36.23%	4.815%
14	11.974	1658	1663	1674	rBV3	15069	30579	1.28%	0.170%
15	12.698	1782	1786	1793	rVB	23746	28985	1.21%	0.161%
16	12.851	1807	1812	1817	rBV	56504	69710	2.91%	0.387%
17	13.033	1838	1843	1848	rBV	1343473	1679468	70.15%	9.323%
18	13.557	1928	1932	1937	rBV	34283	41264	1.72%	0.229%
19	14.092	2018	2023	2036	rVB	455326	626173	26.16%	3.476%
20	14.862	2148	2154	2160	rVB4	10887	25366	1.06%	0.141%
21	15.592	2272	2278	2291	rBV	451091	734046	30.66%	4.075%

Sum of corrected areas: 18014038

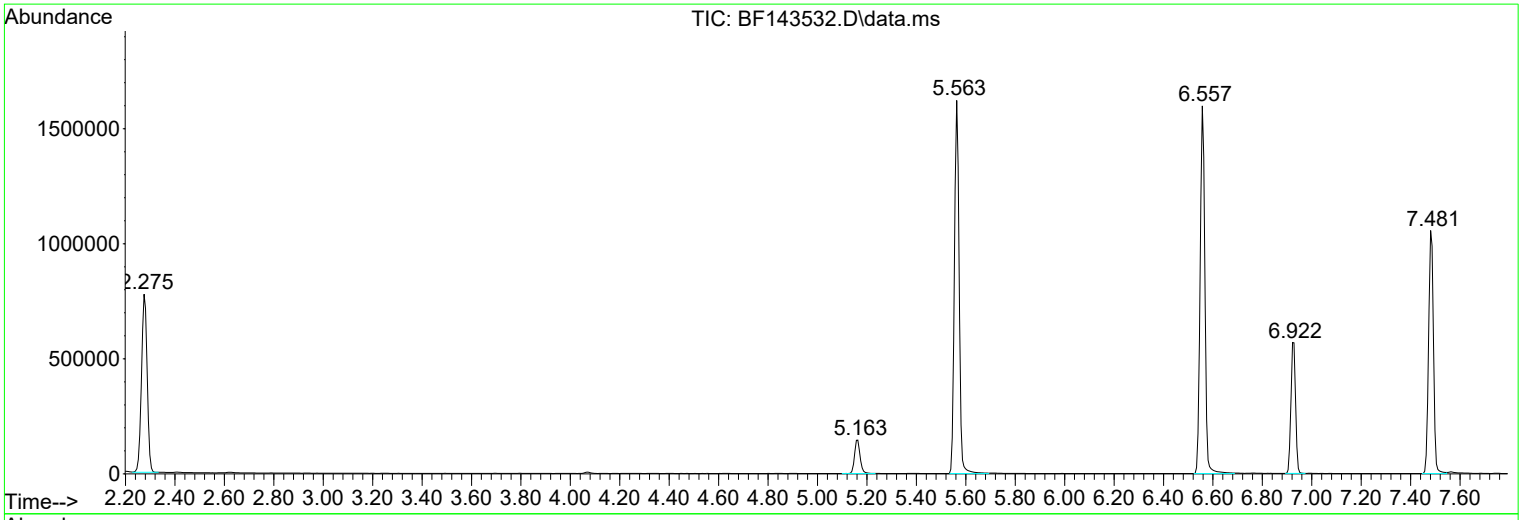
Sample Results: **BF143532.D**

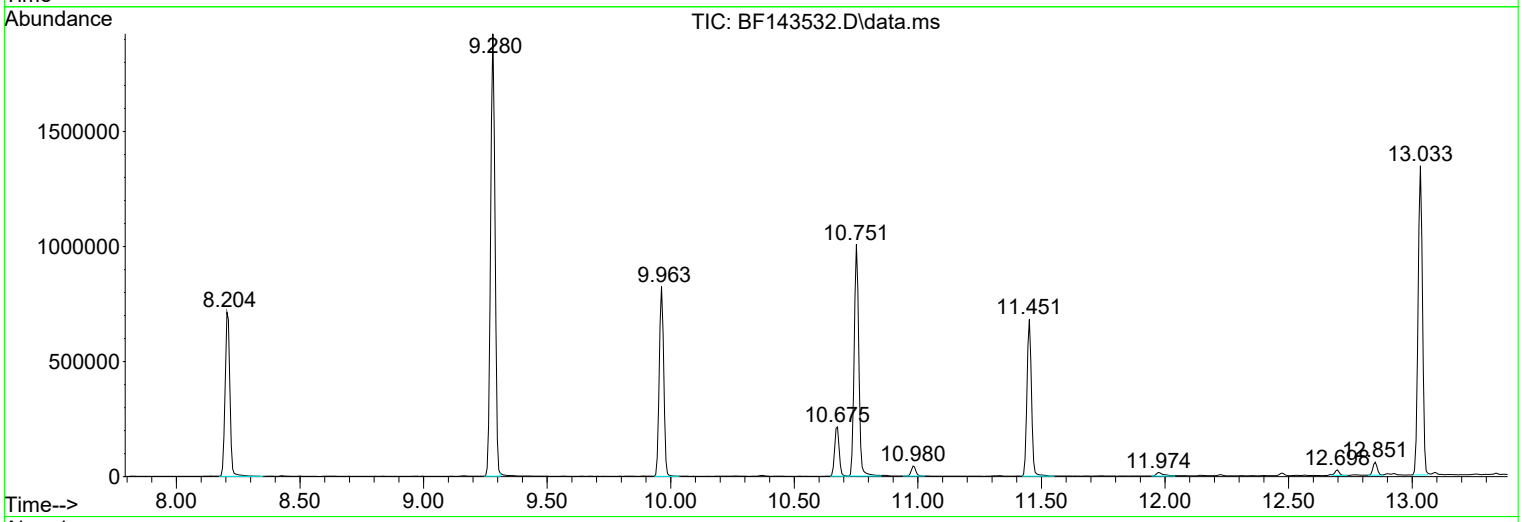
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
Data File : BF143532.D
Acq On : 21 Aug 2025 16:09
Operator : RC/JU
Sample : Q2819-06
Misc :
ALS Vial : 16 Sample Multiplier: 1

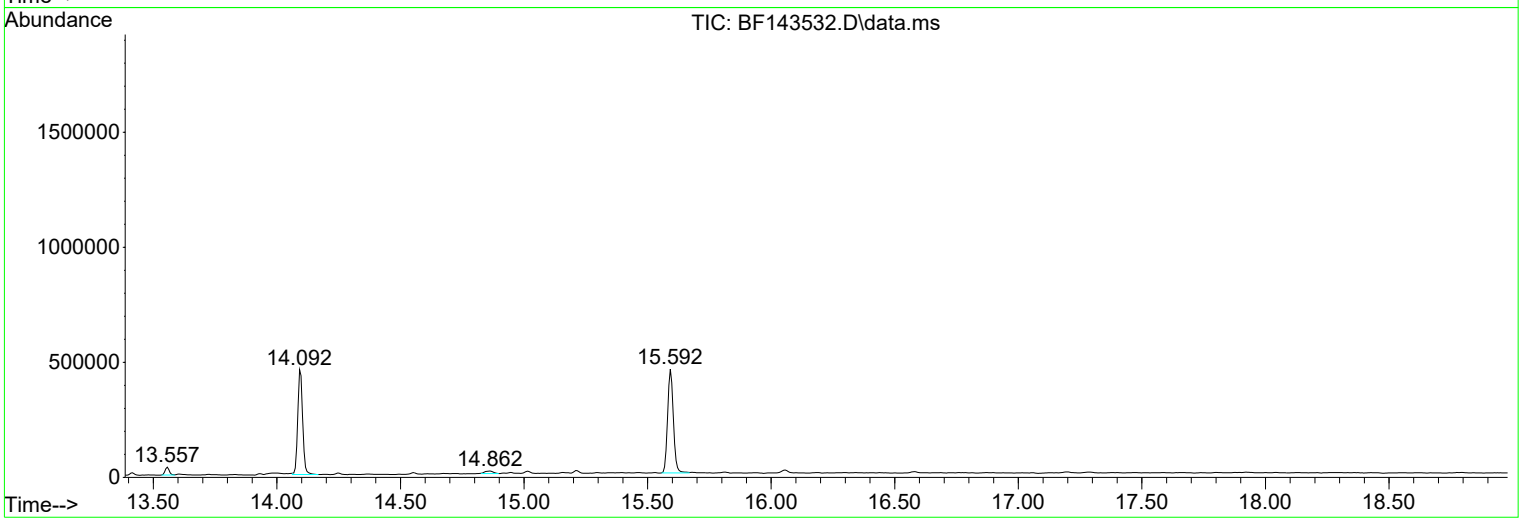
Instrument :
BNA_F
ClientSampleId :
11M-S

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.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\BF082125\
Data File : BF143532.D
Acq On : 21 Aug 2025 16:09
Operator : RC/JU
Sample : Q2819-06
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
11M-S

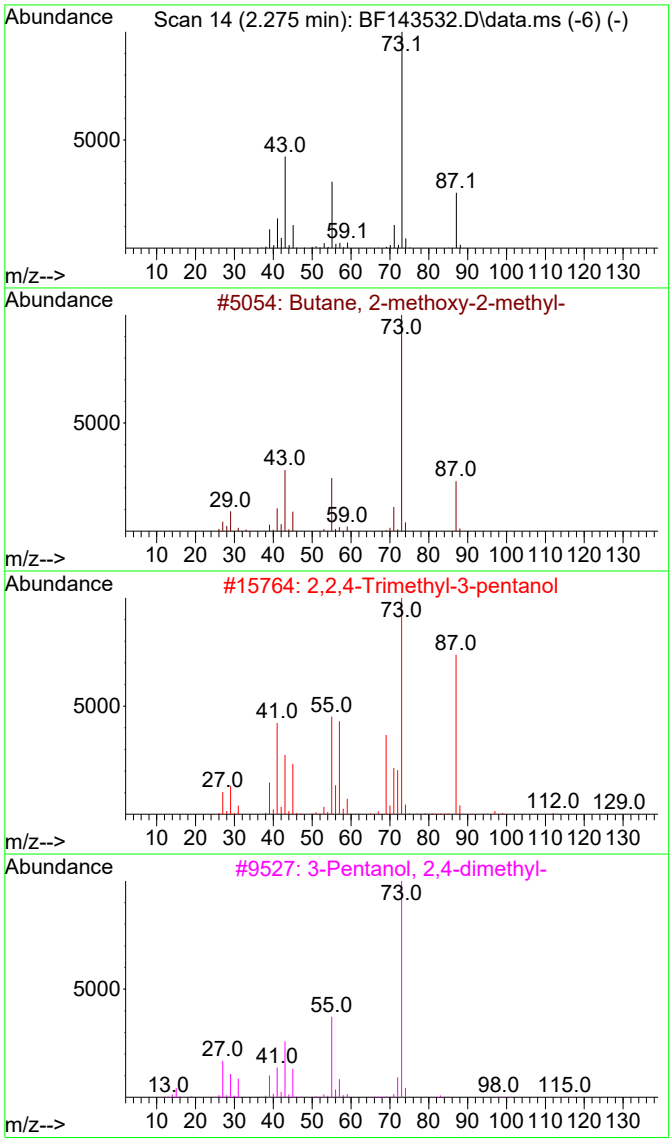
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

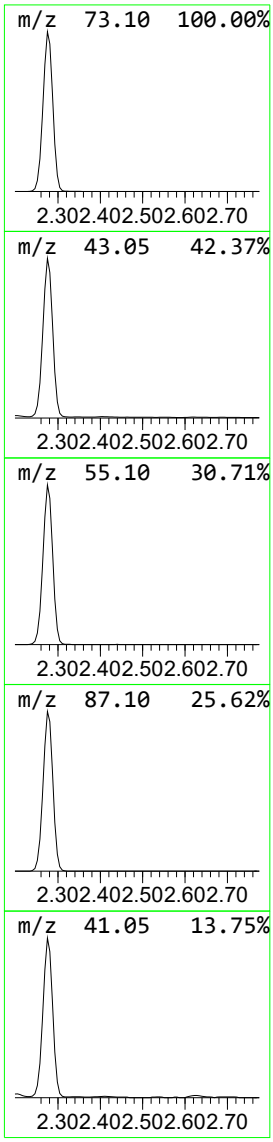
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.275	33.65 ng	1238050	1,4-Dichlorobenzene-d4	6.928

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, 2,4-dimethyl-	116	C7H16O	000600-36-2	37
4	1,3-Dioxolane, 2-methyl-	88	C4H8O2	000497-26-7	23
5	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	12





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
Data File : BF143532.D
Acq On : 21 Aug 2025 16:09
Operator : RC/JU
Sample : Q2819-06
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
11M-S

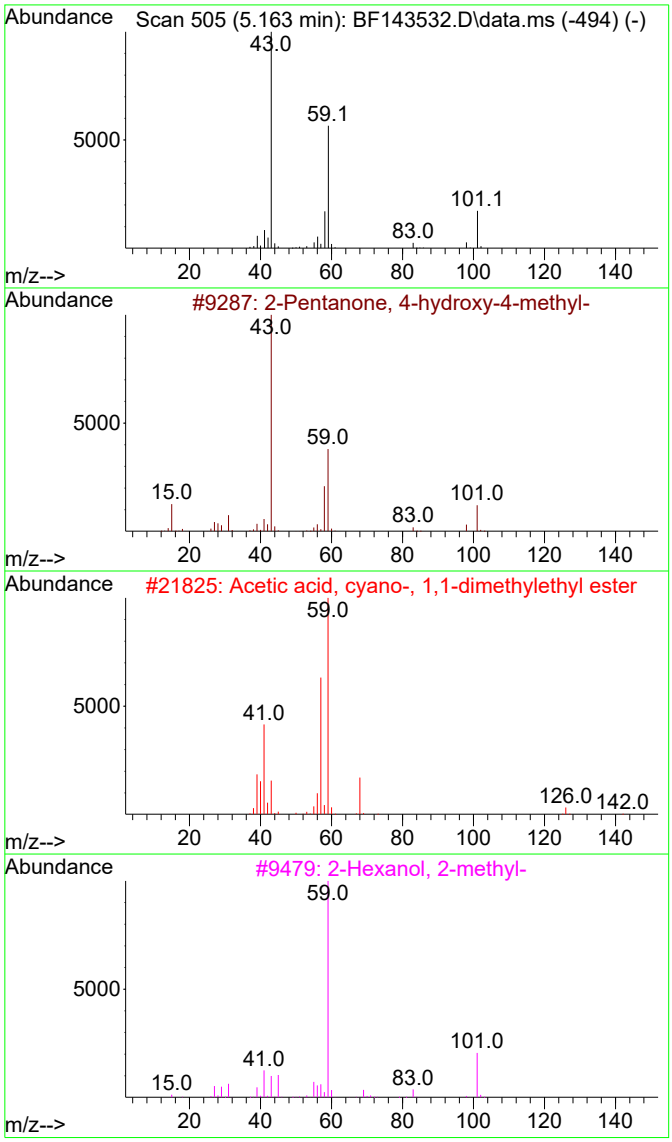
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

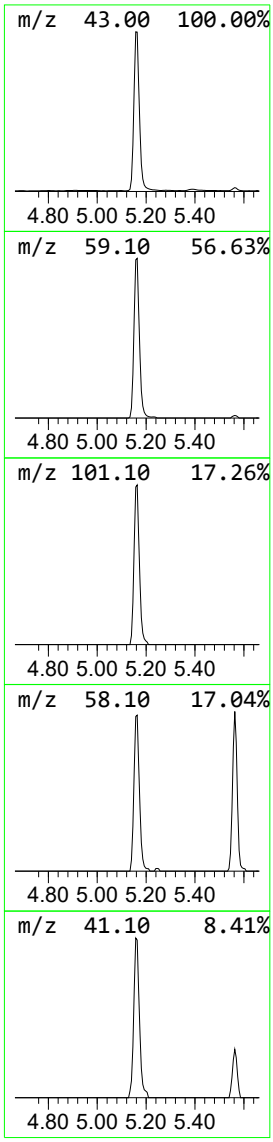
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.163	6.28 ng	230949	1,4-Dichlorobenzene-d4	6.928

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	59
2	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	37
3	2-Hexanol, 2-methyl-	116	C7H16O	000625-23-0	28
4	Acetic acid, 1,1-dimethylethyl e...	116	C6H12O2	000540-88-5	17
5	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	12





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
Data File : BF143532.D
Acq On : 21 Aug 2025 16:09
Operator : RC/JU
Sample : Q2819-06
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
11M-S

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

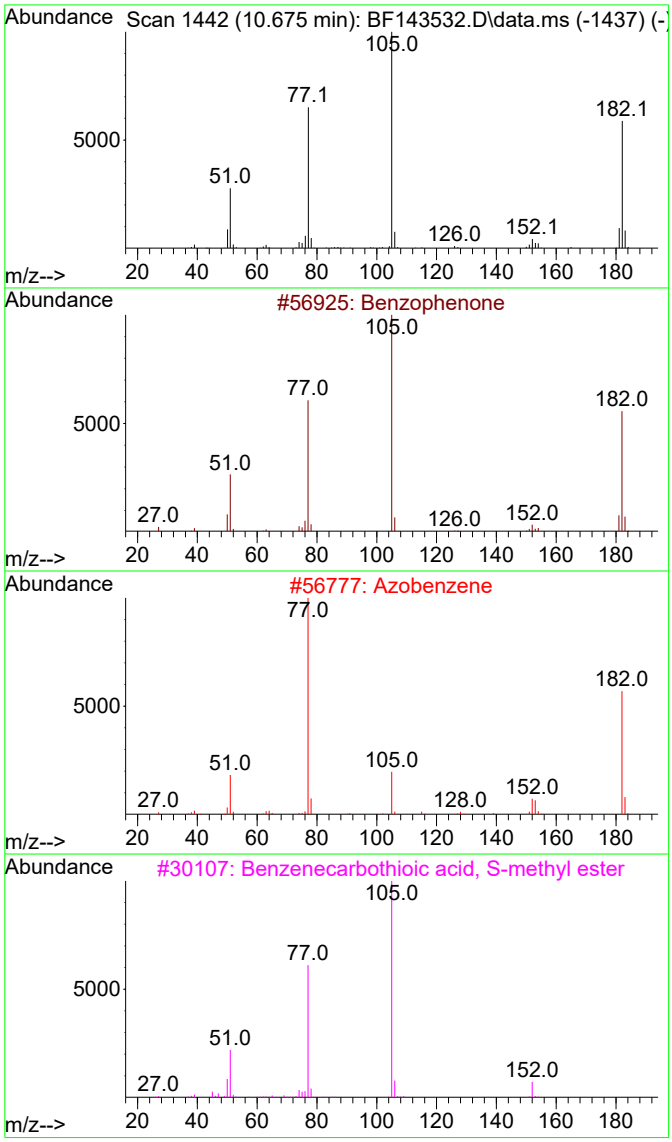
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

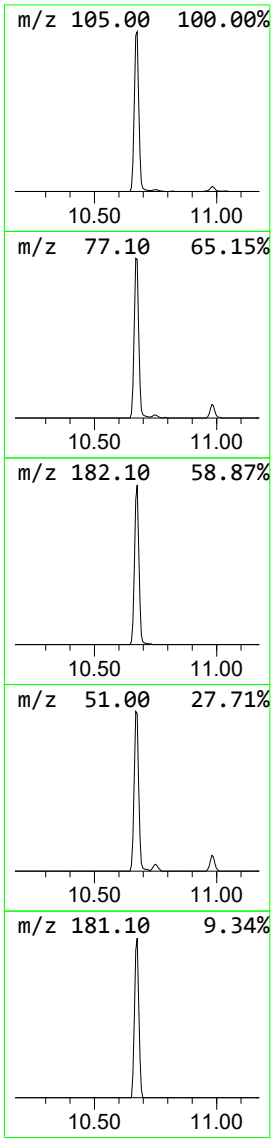
****

Peak Number 3 Benzophenone Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.675	5.46 ng	276189	Acenaphthene-d10	9.963

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	Azobenzene	182	C12H10N2	000103-33-3	59
3	Benzenecarbothioic acid, S-methy...	152	C8H8OS	005925-68-8	49
4	1-Propanone, 2-bromo-1-phenyl-	212	C9H9BrO	002114-00-3	47
5	N-(1-Cyanovinyl)benzamide	172	C10H8N2O	1000186-19-1	47





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
Data File : BF143532.D
Acq On : 21 Aug 2025 16:09
Operator : RC/JU
Sample : Q2819-06
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
11M-S

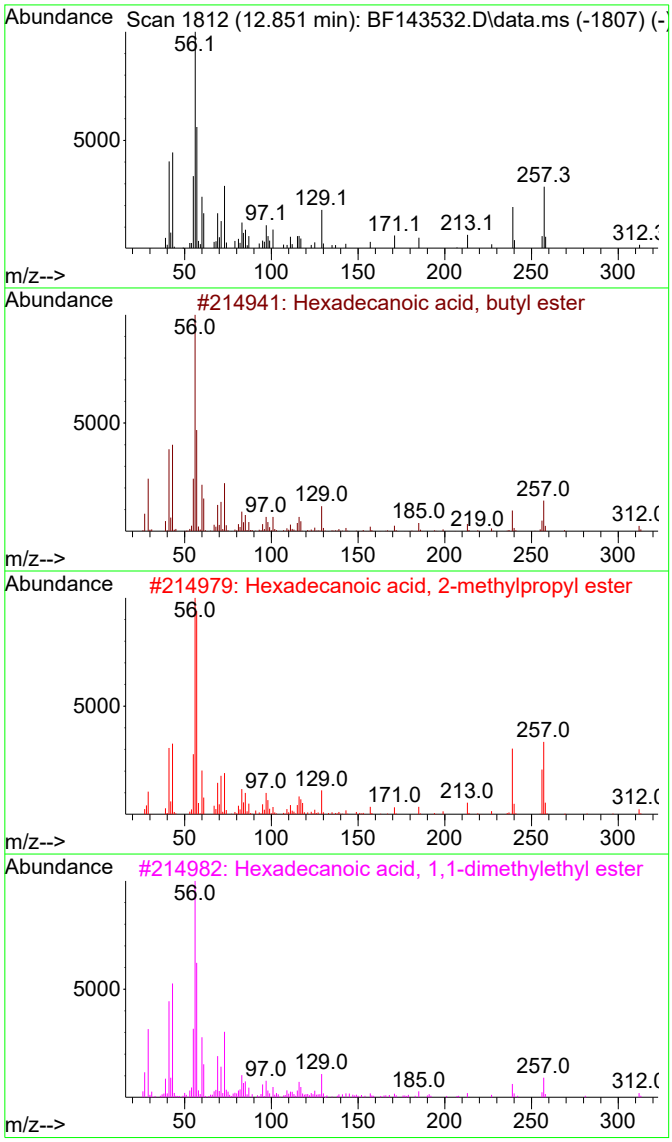
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

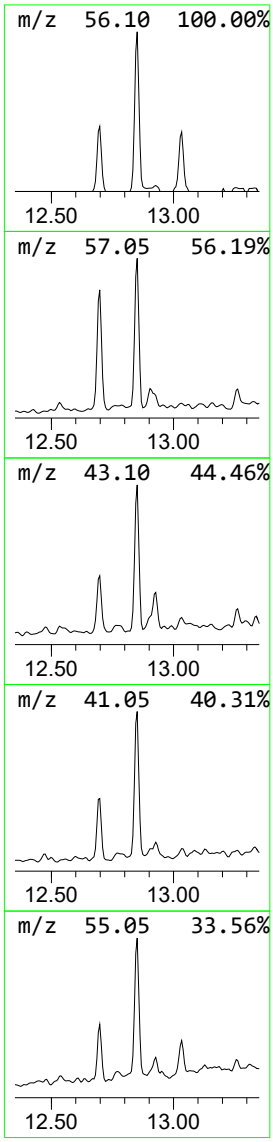
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 4 Hexadecanoic acid, butyl ester Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.851	2.23 ng	69710	Chrysene-d12	14.092

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecanoic acid, butyl ester	312	C20H40O2	000111-06-8	97
2	Hexadecanoic acid, 2-methylpropy...	312	C20H40O2	000110-34-9	90
3	Hexadecanoic acid, 1,1-dimethyle...	312	C20H40O2	031158-91-5	55
4	Pentadecane, 8-methylene-	224	C16H32	055668-09-2	35
5	Cyclopropane, 1-(1-methylethyl)-...	210	C15H30	041977-39-3	35





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
Data File : BF143532.D
Acq On : 21 Aug 2025 16:09
Operator : RC/JU
Sample : Q2819-06
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
11M-S

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.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...	2.275	33.6	ng	1238050	1	6.928	735781	20.0
2-Pentanone, 4-...	5.163	6.3	ng	230949	1	6.928	735781	20.0
Benzophenone	10.675	5.5	ng	276189	3	9.963	1011850	20.0
Hexadecanoic ac...	12.851	2.2	ng	69710	5	14.092	626173	20.0

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	11M-N	SDG No.:	Q2819
Lab Sample ID:	Q2819-07	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	75.9
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
BF143525.D	1	08/14/25 08:40	08/21/25 12:46	PB169242

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
100-52-7	Benzaldehyde	360	U	210	360	430	ug/Kg
108-95-2	Phenol	170	U	29.1	170	220	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	170	U	32.0	170	220	ug/Kg
95-57-8	2-Chlorophenol	170	U	32.1	170	220	ug/Kg
95-48-7	2-Methylphenol	170	U	39.4	170	220	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	170	U	49.4	170	220	ug/Kg
98-86-2	Acetophenone	170	U	38.8	170	220	ug/Kg
65794-96-9	3+4-Methylphenols	360	U	54.1	360	430	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	110	U	62.4	110	110	ug/Kg
67-72-1	Hexachloroethane	170	U	23.2	170	220	ug/Kg
98-95-3	Nitrobenzene	170	U	24.1	170	220	ug/Kg
78-59-1	Isophorone	170	U	43.2	170	220	ug/Kg
88-75-5	2-Nitrophenol	170	U	76.6	170	220	ug/Kg
105-67-9	2,4-Dimethylphenol	170	U	85.3	170	220	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	170	U	40.5	170	220	ug/Kg
120-83-2	2,4-Dichlorophenol	170	U	37.2	170	220	ug/Kg
91-20-3	Naphthalene	780		29.9	170	220	ug/Kg
106-47-8	4-Chloroaniline	170	U	46.6	170	220	ug/Kg
87-68-3	Hexachlorobutadiene	170	U	33.3	170	220	ug/Kg
105-60-2	Caprolactam	360	U	68.6	360	430	ug/Kg
59-50-7	4-Chloro-3-methylphenol	170	U	37.8	170	220	ug/Kg
91-57-6	2-Methylnaphthalene	280		33.7	170	220	ug/Kg
77-47-4	Hexachlorocyclopentadiene	360	U	150	360	430	ug/Kg
88-06-2	2,4,6-Trichlorophenol	170	U	26.1	170	220	ug/Kg
95-95-4	2,4,5-Trichlorophenol	170	U	38.3	170	220	ug/Kg
92-52-4	1,1-Biphenyl	170	U	28.7	170	220	ug/Kg
91-58-7	2-Chloronaphthalene	170	U	29.6	170	220	ug/Kg
88-74-4	2-Nitroaniline	170	U	63.3	170	220	ug/Kg
131-11-3	Dimethylphthalate	170	U	35.7	170	220	ug/Kg

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	11M-N	SDG No.:	Q2819
Lab Sample ID:	Q2819-07	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	75.9
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
BF143525.D	1	08/14/25 08:40	08/21/25 12:46	PB169242

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	170	U	38.0	170	220	ug/Kg
606-20-2	2,6-Dinitrotoluene	170	U	44.2	170	220	ug/Kg
99-09-2	3-Nitroaniline	170	U	60.5	170	220	ug/Kg
83-32-9	Acenaphthene	480		28.0	170	220	ug/Kg
51-28-5	2,4-Dinitrophenol	360	U	300	360	430	ug/Kg
100-02-7	4-Nitrophenol	360	U	140	360	430	ug/Kg
132-64-9	Dibenzofuran	460		29.9	170	220	ug/Kg
121-14-2	2,4-Dinitrotoluene	170	U	65.9	170	220	ug/Kg
84-66-2	Diethylphthalate	170	U	37.2	170	220	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	170	U	35.1	170	220	ug/Kg
86-73-7	Fluorene	610		33.3	170	220	ug/Kg
100-01-6	4-Nitroaniline	170	U	84.5	170	220	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	360	U	140	360	430	ug/Kg
86-30-6	n-Nitrosodiphenylamine	170	U	43.3	170	220	ug/Kg
101-55-3	4-Bromophenyl-phenylether	170	U	36.6	170	220	ug/Kg
118-74-1	Hexachlorobenzene	170	U	33.3	170	220	ug/Kg
1912-24-9	Atrazine	170	U	44.8	170	220	ug/Kg
87-86-5	Pentachlorophenol	360	U	67.5	360	430	ug/Kg
85-01-8	Phenanthrene	1600		27.5	170	220	ug/Kg
120-12-7	Anthracene	210	J	43.8	170	220	ug/Kg
86-74-8	Carbazole	510		41.1	170	220	ug/Kg
84-74-2	Di-n-butylphthalate	170	U	63.0	170	220	ug/Kg
206-44-0	Fluoranthene	730		39.5	170	220	ug/Kg
129-00-0	Pyrene	420		47.4	170	220	ug/Kg
85-68-7	Butylbenzylphthalate	170	U	94.0	170	220	ug/Kg
91-94-1	3,3-Dichlorobenzidine	360	U	48.3	360	430	ug/Kg
56-55-3	Benzo(a)anthracene	160	J	30.3	170	220	ug/Kg
218-01-9	Chrysene	140	J	26.2	170	220	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	170	U	77.9	170	220	ug/Kg
117-84-0	Di-n-octyl phthalate	360	U	110	360	430	ug/Kg
205-99-2	Benzo(b)fluoranthene	110	J	25.0	170	220	ug/Kg

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Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	11M-N	SDG No.:	Q2819
Lab Sample ID:	Q2819-07	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	75.9
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
BF143525.D	1	08/14/25 08:40	08/21/25 12:46	PB169242

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	170	U	29.5	170	220	ug/Kg
50-32-8	Benzo(a)pyrene	170	U	38.8	170	220	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	170	U	38.3	170	220	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	170	U	36.1	170	220	ug/Kg
191-24-2	Benzo(g,h,i)perylene	170	U	33.8	170	220	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	170	U	33.7	170	220	ug/Kg
123-91-1	1,4-Dioxane	170	UQ	59.5	170	220	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	170	U	36.1	170	220	ug/Kg
SURROGATES							
367-12-4	2-Fluorophenol	84.9		35 - 115		57%	SPK: 150
13127-88-3	Phenol-d6	86.5		34 - 127		58%	SPK: 150
4165-60-0	Nitrobenzene-d5	62.8		37 - 122		63%	SPK: 100
321-60-8	2-Fluorobiphenyl	56.6		44 - 115		57%	SPK: 100
118-79-6	2,4,6-Tribromophenol	77.3		39 - 132		52%	SPK: 150
1718-51-0	Terphenyl-d14	50.5	*	54 - 127		50%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	119000	6.928				
1146-65-2	Naphthalene-d8	450000	8.204				
15067-26-2	Acenaphthene-d10	235000	9.963				
1517-22-2	Phenanthrene-d10	338000	11.451				
1719-03-5	Chrysene-d12	208000	14.092				
1520-96-3	Perylene-d12	262000	15.592				
TENTATIVE IDENTIFIED COMPOUNDS							
000994-05-8	Butane, 2-methoxy-2-methyl-	1600	J			2.27	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	280	AB			5.16	ug/Kg
90-12-0	1-Methylnaphthalene	190	J			9.02	ug/Kg
000575-41-7	Naphthalene, 1,3-dimethyl-	160	J			9.62	ug/Kg
000644-08-6	1,1-Biphenyl, 4-methyl-	94.3	J			10.6	ug/Kg
000119-61-9	Benzophenone	300	J			10.7	ug/Kg
002235-15-6	1(2H)-Acenaphthylenone	130	J			10.9	ug/Kg

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Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	11M-N	SDG No.:	Q2819
Lab Sample ID:	Q2819-07	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	75.9
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
BF143525.D	1	08/14/25 08:40	08/21/25 12:46	PB169242

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
001730-37-6	9H-Fluorene, 1-methyl-	110	J			11.1	ug/Kg
000132-65-0	Dibenzothiophene	140	J			11.3	ug/Kg
002531-84-2	Phenanthrene, 2-methyl-	110	J			12.0	ug/Kg
000613-12-7	Anthracene, 2-methyl-	180	J			12.0	ug/Kg
000203-64-5	4H-Cyclopenta[def]phenanthrene	280	J			12.1	ug/Kg
033543-31-6	Fluoranthene, 2-methyl-	120	J			13.2	ug/Kg
000123-95-5	Octadecanoic acid, butyl ester	100	JB			13.6	ug/Kg

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
Data File : BF143525.D
Acq On : 21 Aug 2025 12:46
Operator : RC/JU
Sample : Q2819-07
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 21 13:50:06 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 21 06:12:21 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
11M-N

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 08/22/2025
Supervised By :mohammad ahmed 08/22/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.928	152	118931	20.000	ng	0.00
21) Naphthalene-d8	8.204	136	449576	20.000	ng	0.00
39) Acenaphthene-d10	9.963	164	234828	20.000	ng	0.00
64) Phenanthrene-d10	11.451	188	338286	20.000	ng	0.00
76) Chrysene-d12	14.092	240	208452	20.000	ng	-0.01
86) Perylene-d12	15.592	264	261830	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.563	112	578369	84.917	ng	0.00
7) Phenol-d6	6.557	99	727657	86.545	ng	-0.02
23) Nitrobenzene-d5	7.481	82	483867	62.806	ng	-0.02
42) 2,4,6-Tribromophenol	10.751	330	169030	77.327	ng	-0.01
45) 2-Fluorobiphenyl	9.281	172	803836	56.572	ng	0.00
79) Terphenyl-d14	13.033	244	603175	50.494	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.228	128	386191	17.892	ng	99
37) 2-Methylnaphthalene	8.922	142	90622	6.286	ng	100
38) 1-Methylnaphthalene	9.016	142	59000	4.279	ng	99
52) Acenaphthene	9.992	154	138694	10.909	ng	99
55) Dibenzofuran	10.169	168	189690	10.465	ng	99
58) Fluorene	10.510	166	195333	14.001	ng	100
71) Phenanthrene	11.475	178	678352	37.445	ng	100
72) Anthracene	11.527	178	85798	4.675	ng	99
73) Carbazole	11.680	167	176236	11.720	ng	100
75) Fluoranthene	12.663	202	269271	16.565	ng	99
78) Pyrene	12.892	202	163978	9.563	ng	98
81) Benzo(a)anthracene	14.080	228	49325	3.675	ng	98
83) Chrysene	14.121	228	37243	3.088	ng	97
88) Benzo(b)fluoranthene	15.151	252	37661m	2.588	ng	

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

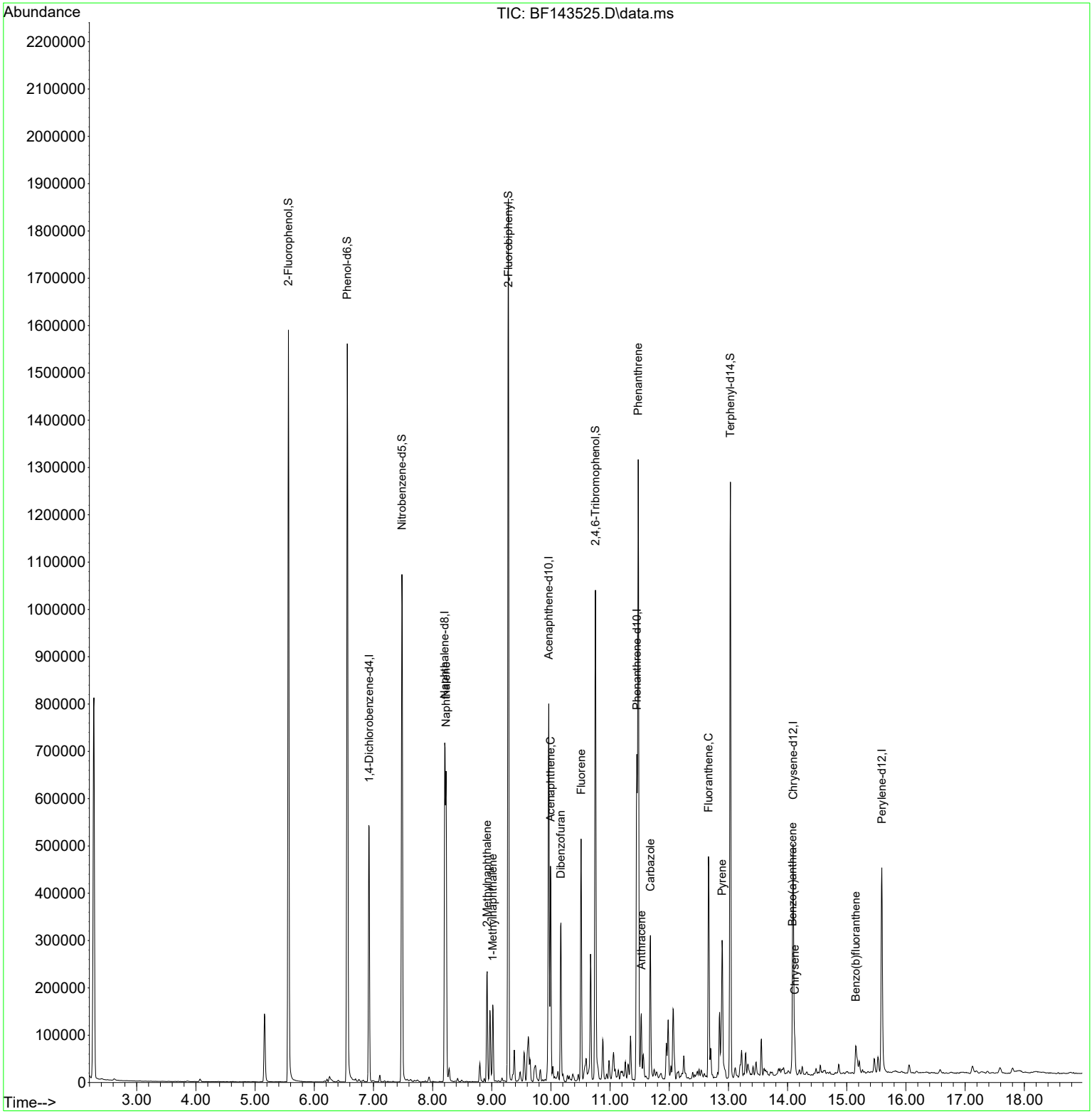
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
Data File : BF143525.D
Acq On : 21 Aug 2025 12:46
Operator : RC/JU
Sample : Q2819-07
Misc :
ALS Vial : 9 Sample Multiplier: 1

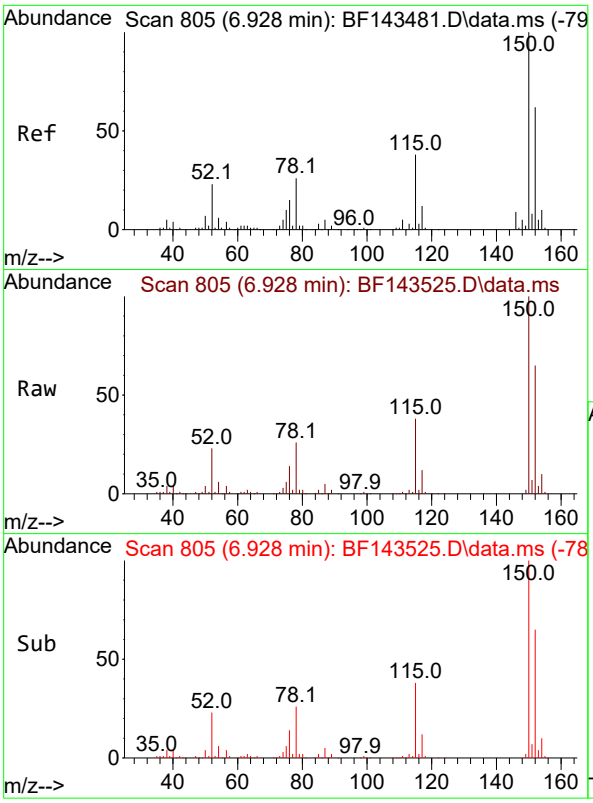
Quant Time: Aug 21 13:50:06 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 21 06:12:21 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
11M-N

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 08/22/2025
Supervised By :mohammad ahmed 08/22/2025

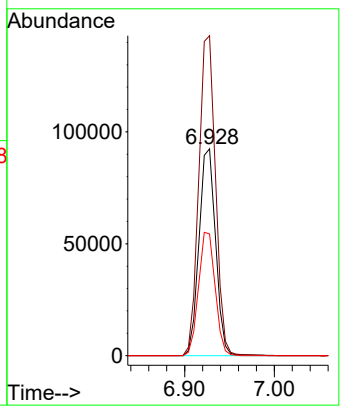




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.928 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF143525.D
Acq: 21 Aug 2025 12:46

Tgt Ion:152 Resp: 11893

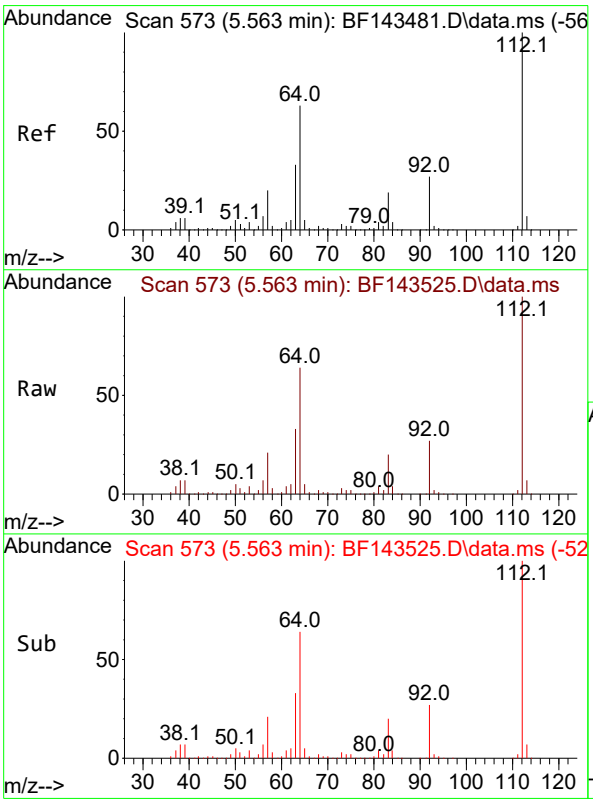
Ion	Ratio	Lower	Upper
152	100		
150	154.7	128.9	193.3
115	58.9	49.2	73.8



Instrument :
BNA_F
ClientSampleId :
11M-N

Manual Integrations
APPROVED

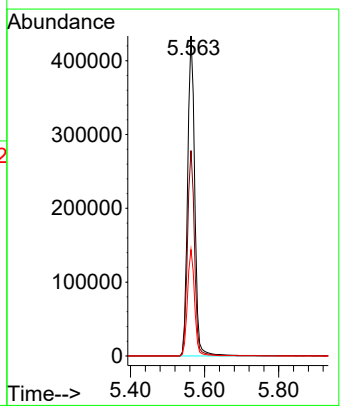
Reviewed By :Rahul Chavli 08/22/2025
Supervised By :mohammad ahmed 08/22/2025

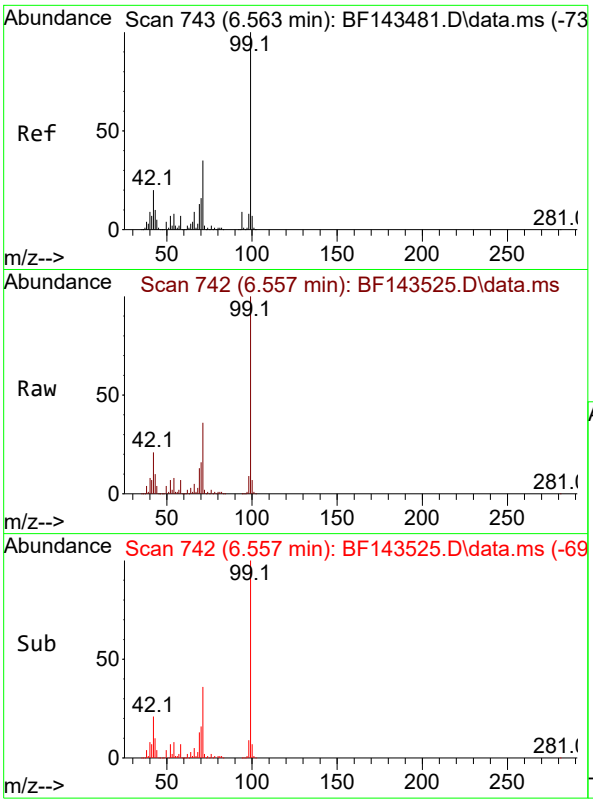


#5
2-Fluorophenol
Concen: 84.917 ng
RT: 5.563 min Scan# 573
Delta R.T. -0.000 min
Lab File: BF143525.D
Acq: 21 Aug 2025 12:46

Tgt Ion:112 Resp: 578369

Ion	Ratio	Lower	Upper
112	100		
64	64.2	50.4	75.6
63	33.2	26.4	39.6

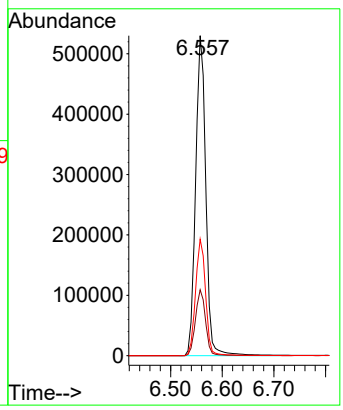




#7
Phenol-d6
Concen: 86.545 ng
RT: 6.557 min Scan# 7
Delta R.T. -0.018 min
Lab File: BF143525.D
Acq: 21 Aug 2025 12:46

Tgt Ion: 99 Resp: 72765

Ion	Ratio	Lower	Upper
99	100		
42	20.6	16.3	24.5
71	36.4	28.2	42.2



Instrument :
BNA_F
ClientSampleId :
11M-N

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 08/22/2025
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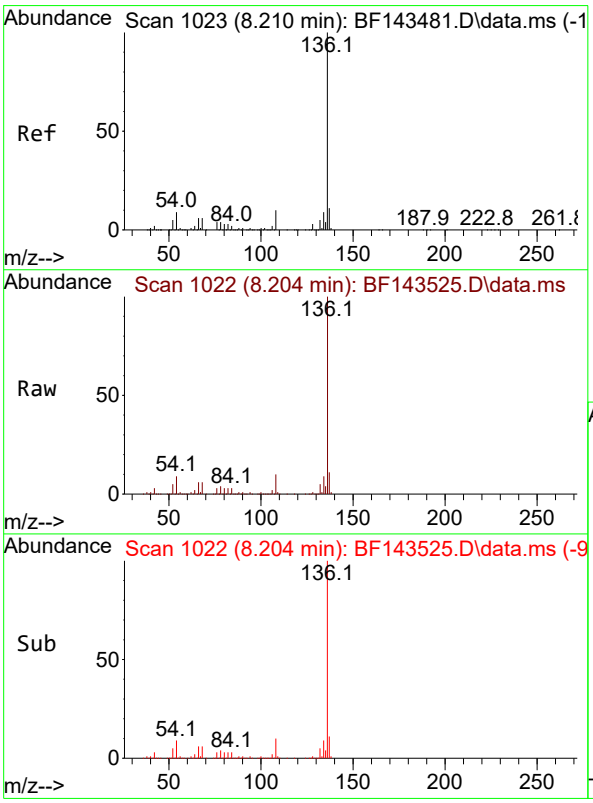
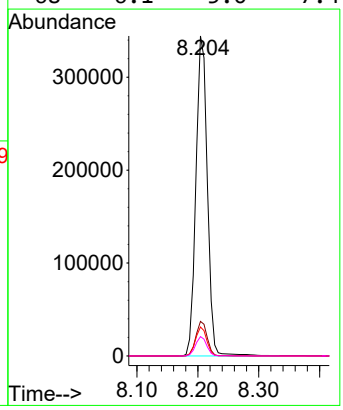
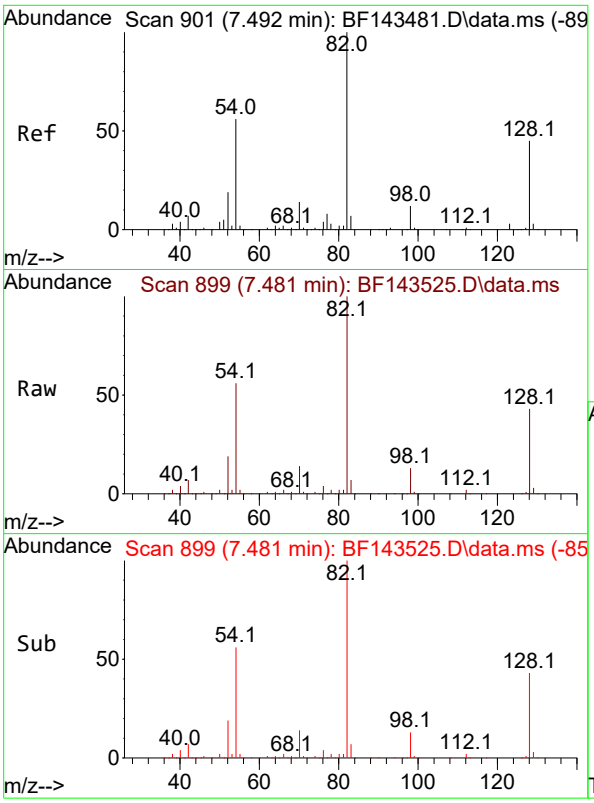


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.204 min Scan# 1022
Delta R.T. -0.006 min
Lab File: BF143525.D
Acq: 21 Aug 2025 12:46

Tgt Ion:136 Resp: 449576

Ion	Ratio	Lower	Upper
136	100		
137	10.8	9.0	13.4
54	9.1	7.4	11.2
68	6.1	5.0	7.4

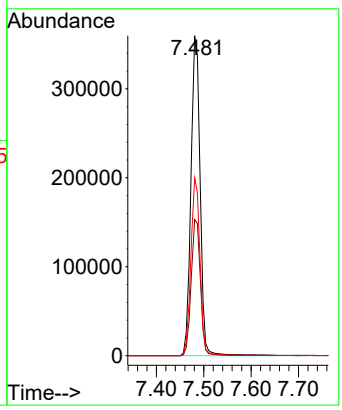




#23
Nitrobenzene-d5
Concen: 62.806 ng
RT: 7.481 min Scan# 8
Delta R.T. -0.018 min
Lab File: BF143525.D
Acq: 21 Aug 2025 12:46

Tgt Ion: 82 Resp: 48386

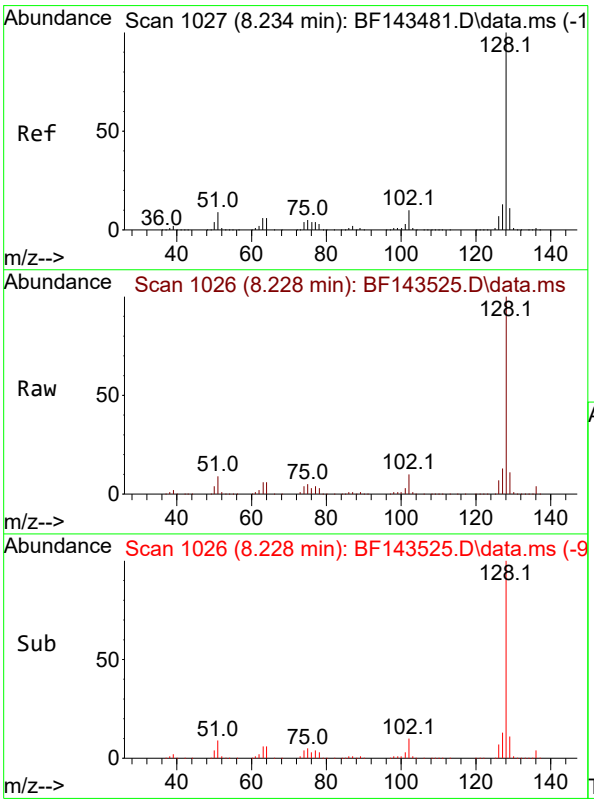
Ion	Ratio	Lower	Upper
82	100		
128	42.5	35.5	53.3
54	55.6	44.3	66.5



Instrument :
BNA_F
ClientSampleId :
11M-N

Manual Integrations
APPROVED

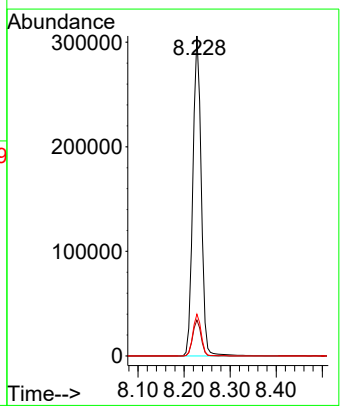
Reviewed By :Rahul Chavli 08/22/2025
Supervised By :mohammad ahmed 08/22/2025

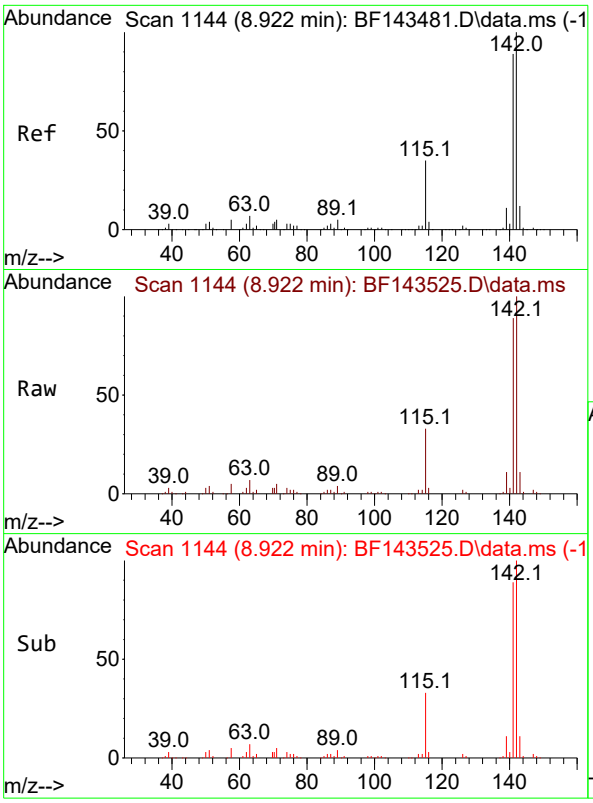


#31
Naphthalene
Concen: 17.892 ng
RT: 8.228 min Scan# 1026
Delta R.T. -0.006 min
Lab File: BF143525.D
Acq: 21 Aug 2025 12:46

Tgt Ion:128 Resp: 386191

Ion	Ratio	Lower	Upper
128	100		
129	11.2	8.8	13.2
127	13.1	10.6	16.0

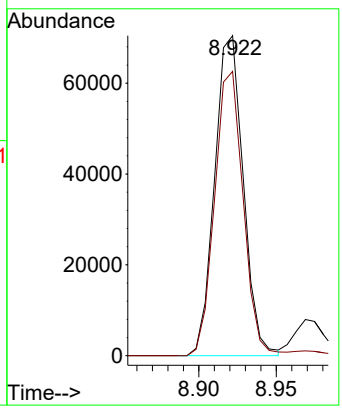




#37
2-Methylnaphthalene
Concen: 6.286 ng
RT: 8.922 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF143525.D
Acq: 21 Aug 2025 12:46

Tgt Ion:142 Resp: 9062

Ion	Ratio	Lower	Upper
142	100		
141	88.8	71.0	106.4



Instrument :
BNA_F
ClientSampleId :
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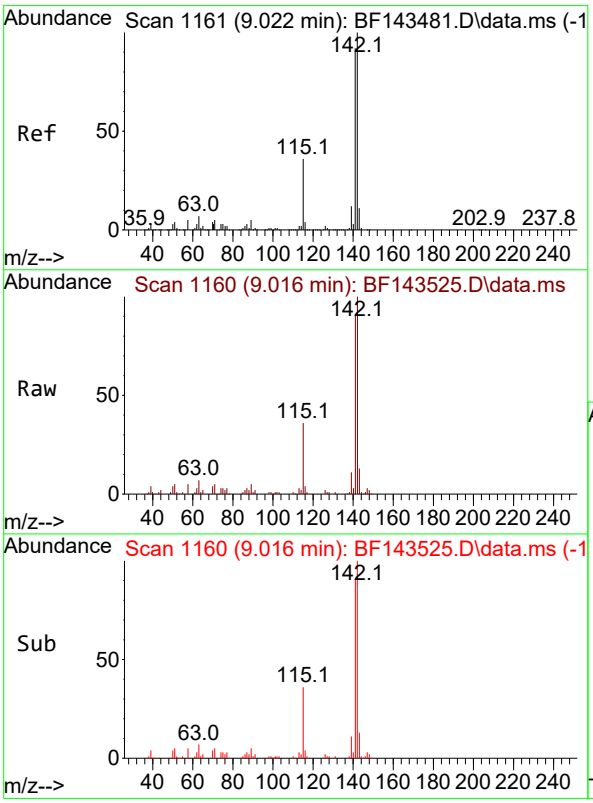
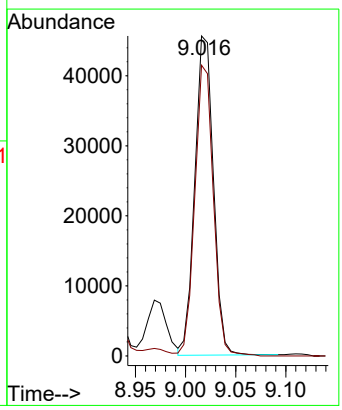
Supervised By :mohammad ahmed 08/22/2025

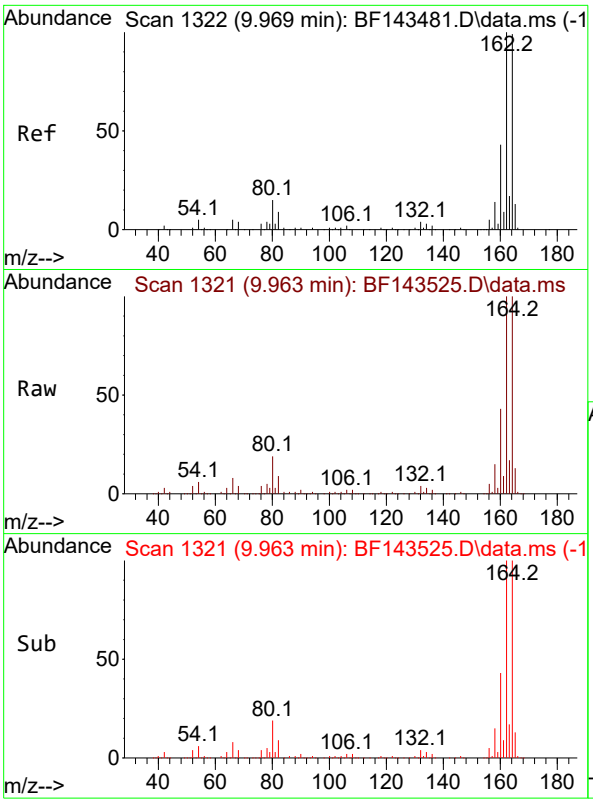


#38
1-Methylnaphthalene
Concen: 4.279 ng
RT: 9.016 min Scan# 1160
Delta R.T. -0.012 min
Lab File: BF143525.D
Acq: 21 Aug 2025 12:46

Tgt Ion:142 Resp: 59000

Ion	Ratio	Lower	Upper
142	100		
141	90.8	73.3	109.9

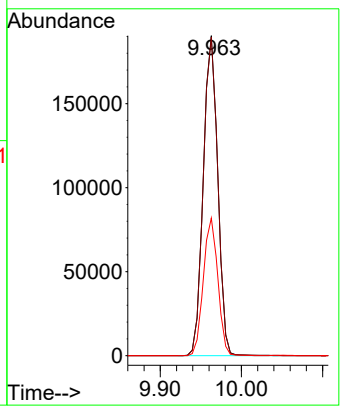




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.963 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143525.D
Acq: 21 Aug 2025 12:46

Tgt Ion:164 Resp: 23482

Ion	Ratio	Lower	Upper
164	100		
162	99.5	80.5	120.7
160	43.0	34.3	51.5



Instrument :
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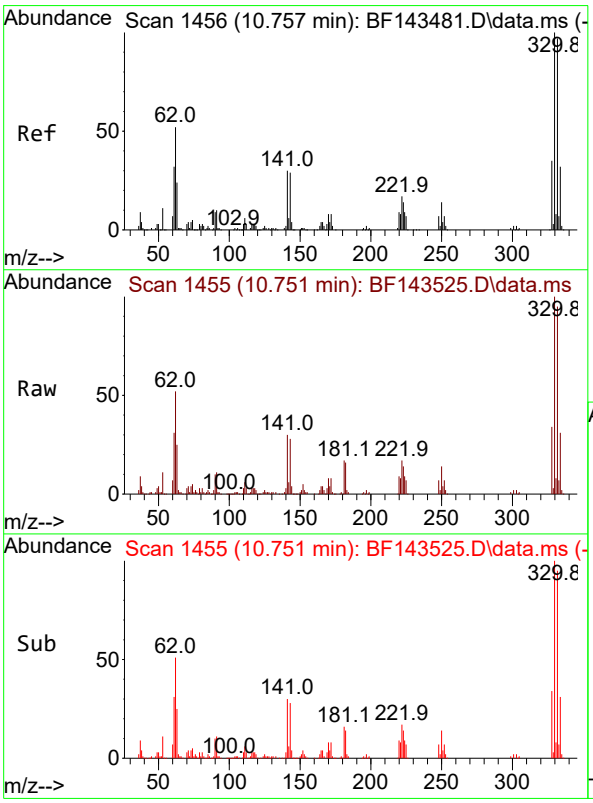
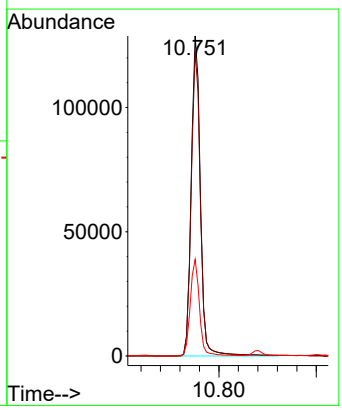
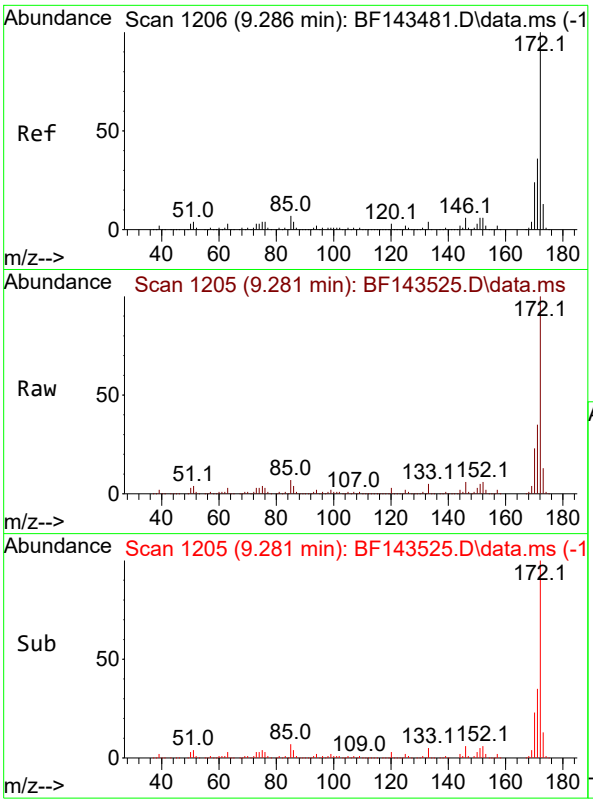


#42
2,4,6-Tribromophenol
Concen: 77.327 ng
RT: 10.751 min Scan# 1455
Delta R.T. -0.012 min
Lab File: BF143525.D
Acq: 21 Aug 2025 12:46

Tgt Ion:330 Resp: 169030

Ion	Ratio	Lower	Upper
330	100		
332	95.5	78.0	117.0
141	30.4	23.7	35.5

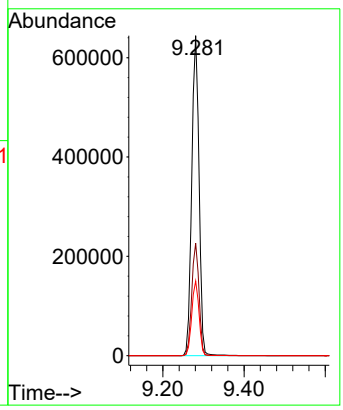




#45
2-Fluorobiphenyl
Concen: 56.572 ng
RT: 9.281 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143525.D
Acq: 21 Aug 2025 12:46

Tgt Ion:172 Resp: 80383

Ion	Ratio	Lower	Upper
172	100		
171	35.1	28.8	43.2
170	23.4	18.8	28.2



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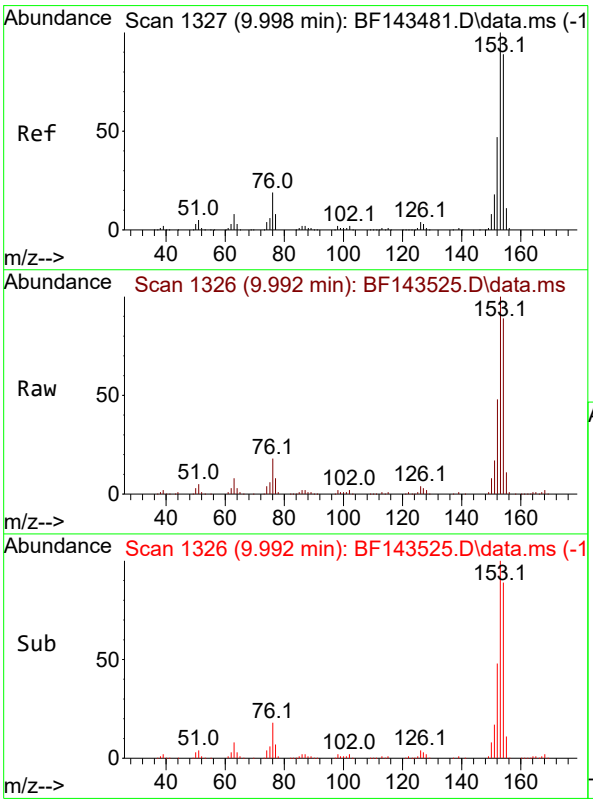
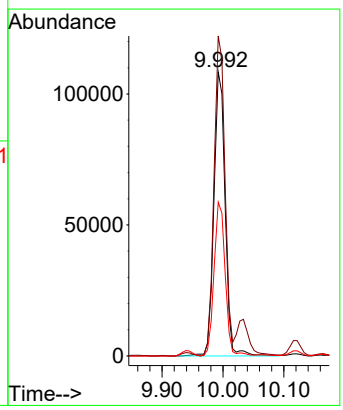
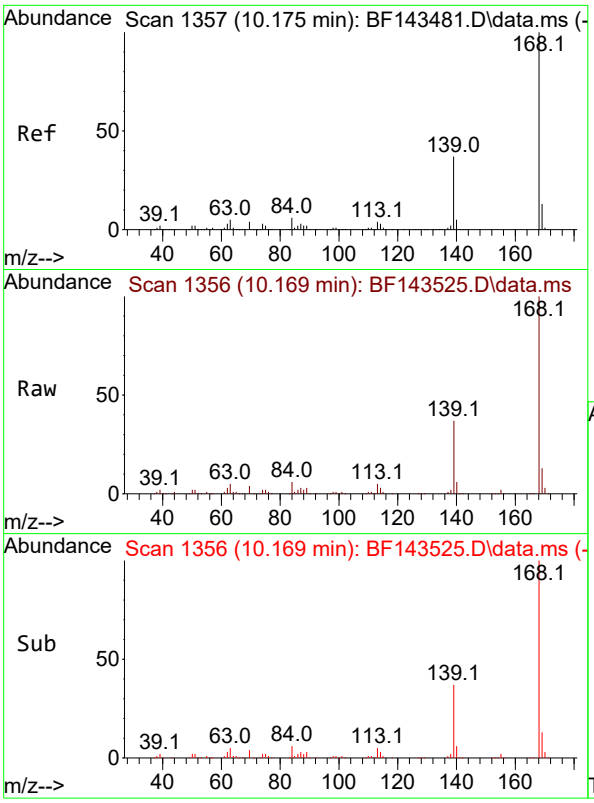


#52
Acenaphthene
Concen: 10.909 ng
RT: 9.992 min Scan# 1326
Delta R.T. -0.012 min
Lab File: BF143525.D
Acq: 21 Aug 2025 12:46

Tgt Ion:154 Resp: 138694

Ion	Ratio	Lower	Upper
154	100		
153	112.6	89.5	134.3
152	54.1	42.5	63.7

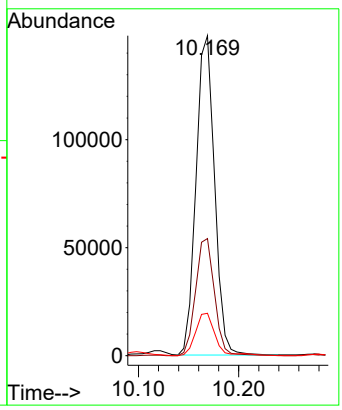




#55
Dibenzofuran
Concen: 10.465 ng
RT: 10.169 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143525.D
Acq: 21 Aug 2025 12:46

Tgt Ion:168 Resp: 18969

Ion	Ratio	Lower	Upper
168	100		
139	36.6	29.8	44.6
169	13.3	10.8	16.2



Instrument :
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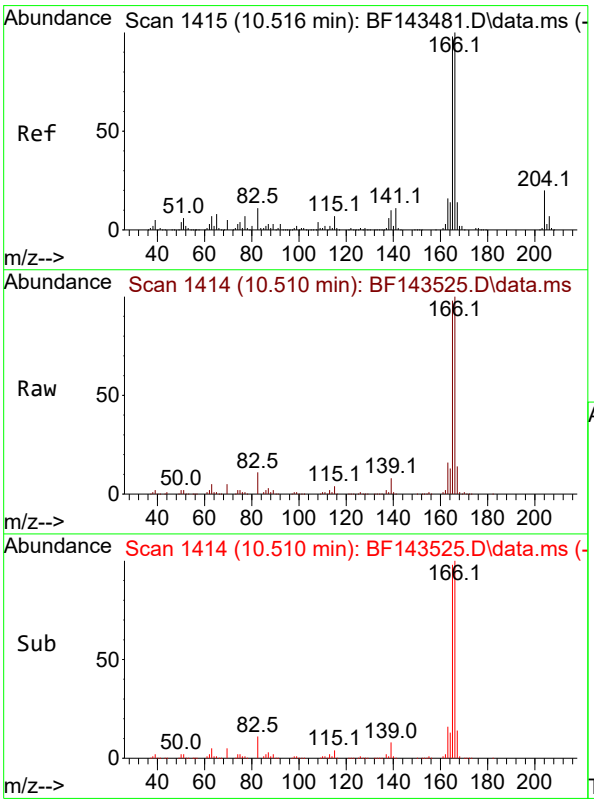
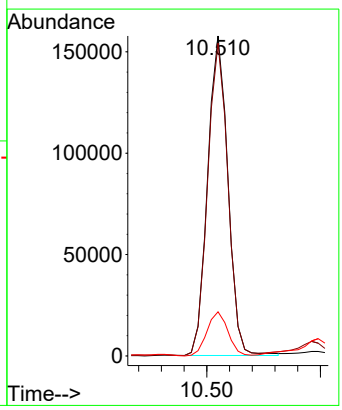
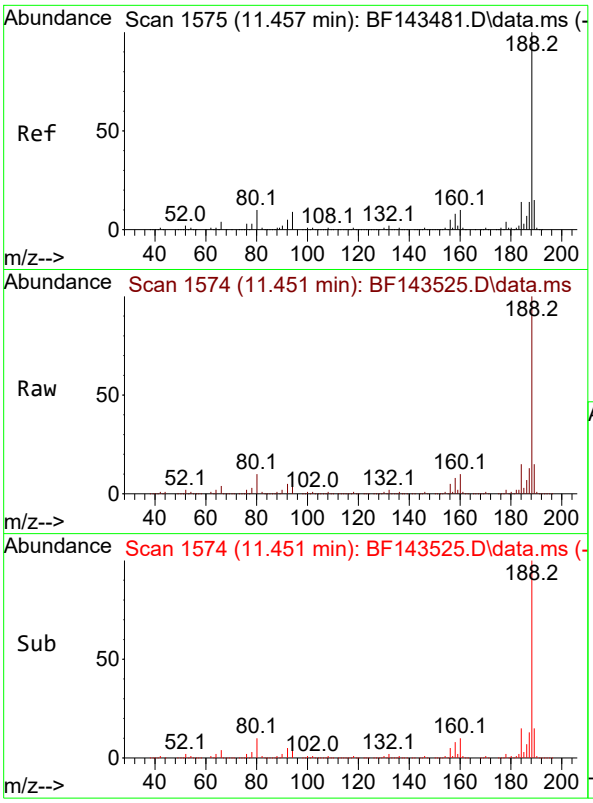


#58
Fluorene
Concen: 14.001 ng
RT: 10.510 min Scan# 1414
Delta R.T. -0.012 min
Lab File: BF143525.D
Acq: 21 Aug 2025 12:46

Tgt Ion:166 Resp: 195333

Ion	Ratio	Lower	Upper
166	100		
165	97.7	78.3	117.5
167	13.8	11.0	16.4

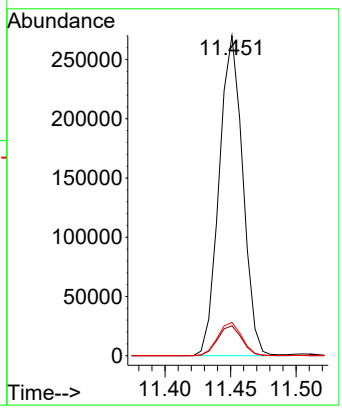




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.451 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143525.D
Acq: 21 Aug 2025 12:46

Tgt Ion:188 Resp: 33828

Ion	Ratio	Lower	Upper
188	100		
94	9.3	7.4	11.2
80	10.4	8.2	12.4



Instrument :
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ClientSampleId :
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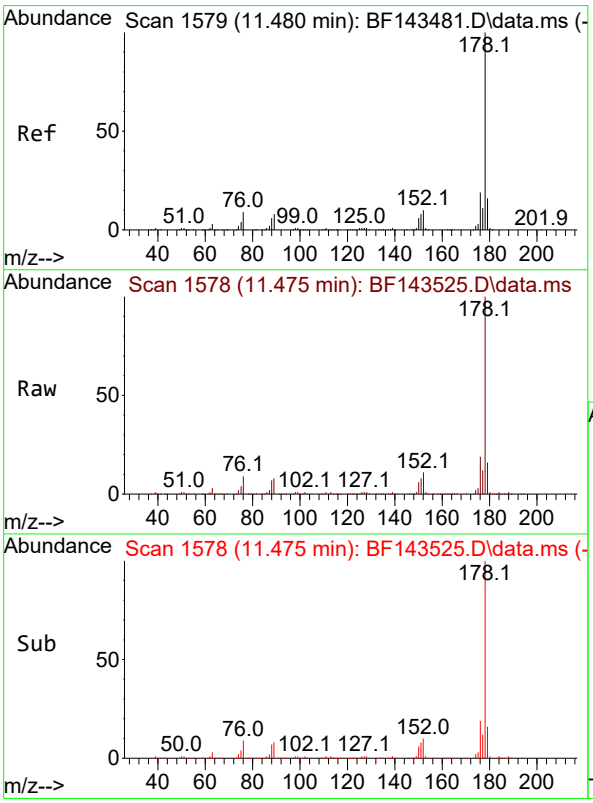
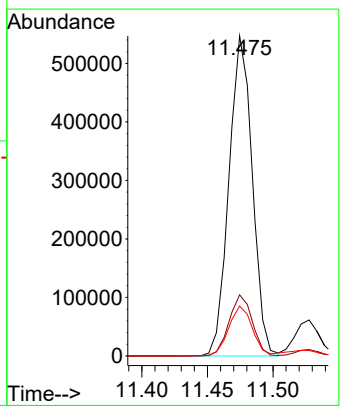
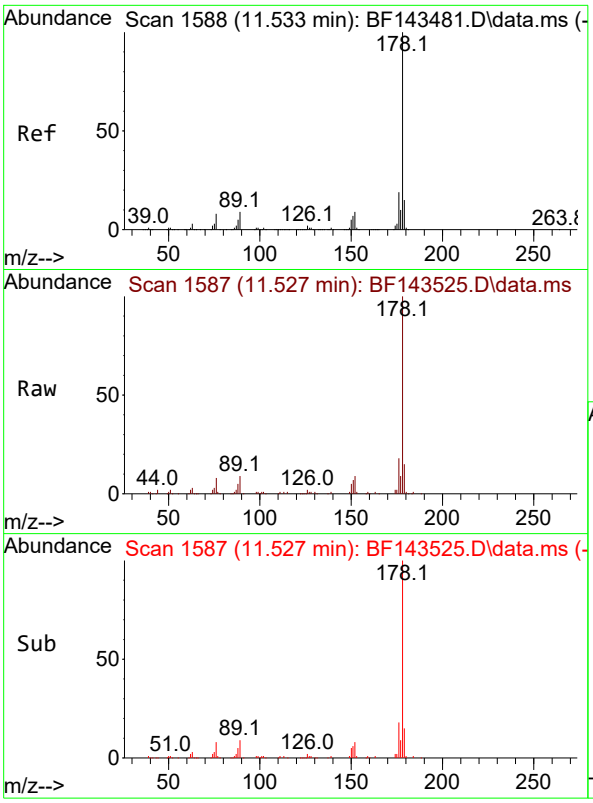


#71
Phenanthrene
Concen: 37.445 ng
RT: 11.475 min Scan# 1578
Delta R.T. -0.006 min
Lab File: BF143525.D
Acq: 21 Aug 2025 12:46

Tgt Ion:178 Resp: 678352

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.5	23.3
179	15.6	12.5	18.7

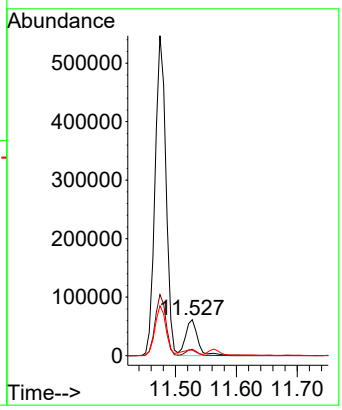




#72
Anthracene
Concen: 4.675 ng
RT: 11.527 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143525.D
Acq: 21 Aug 2025 12:46

Tgt Ion:178 Resp: 8579

Ion	Ratio	Lower	Upper
178	100		
176	17.7	15.0	22.4
179	15.4	12.3	18.5



Instrument :
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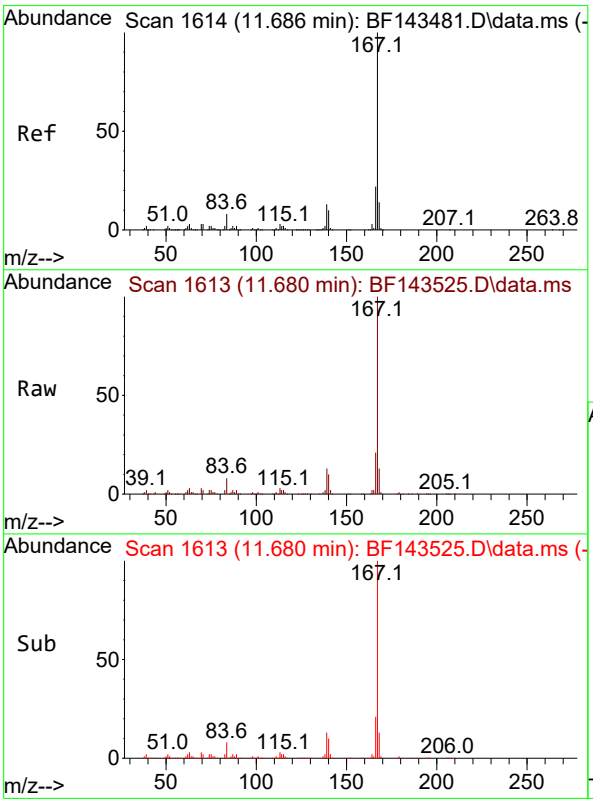
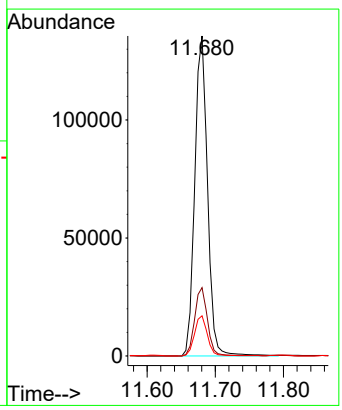
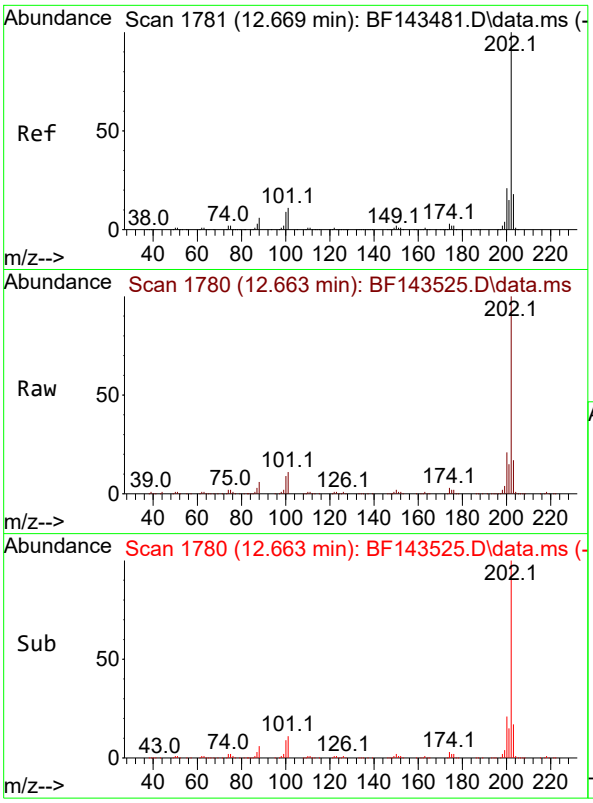


#73
Carbazole
Concen: 11.720 ng
RT: 11.680 min Scan# 1613
Delta R.T. -0.006 min
Lab File: BF143525.D
Acq: 21 Aug 2025 12:46

Tgt Ion:167 Resp: 176236

Ion	Ratio	Lower	Upper
167	100		
166	21.3	17.3	25.9
139	12.5	10.0	15.0

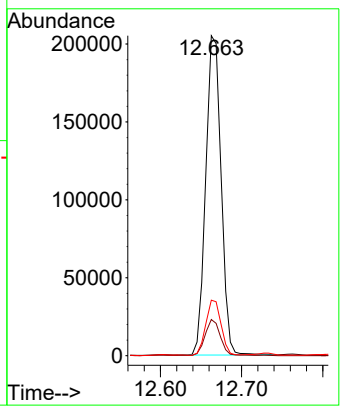




#75
Fluoranthene
Concen: 16.565 ng
RT: 12.663 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF143525.D
Acq: 21 Aug 2025 12:46

Tgt Ion:202 Resp: 26927

Ion	Ratio	Lower	Upper
202	100		
101	11.3	0.0	31.3
203	17.3	0.0	37.9



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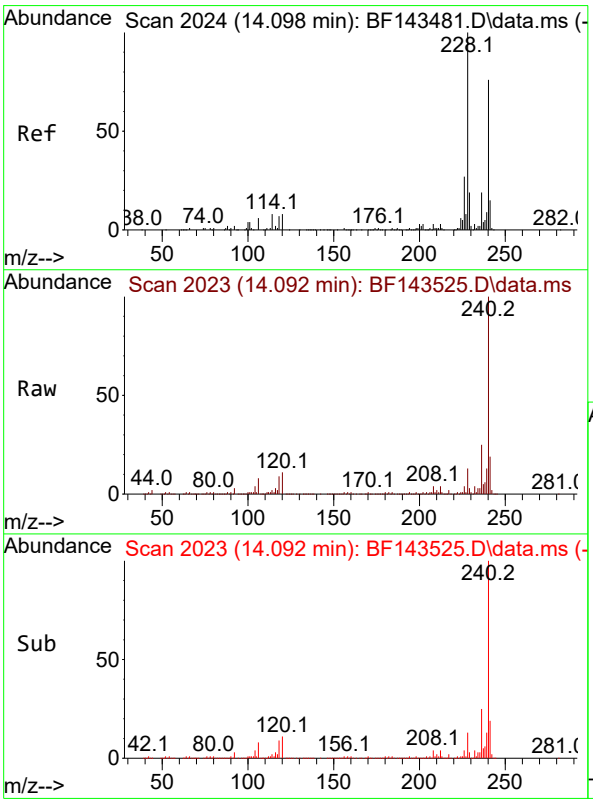
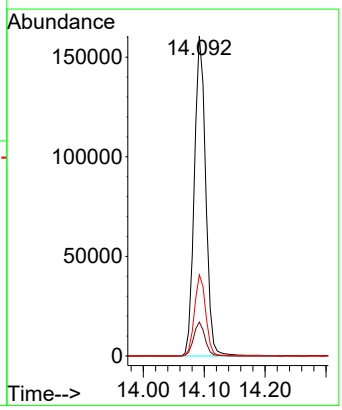
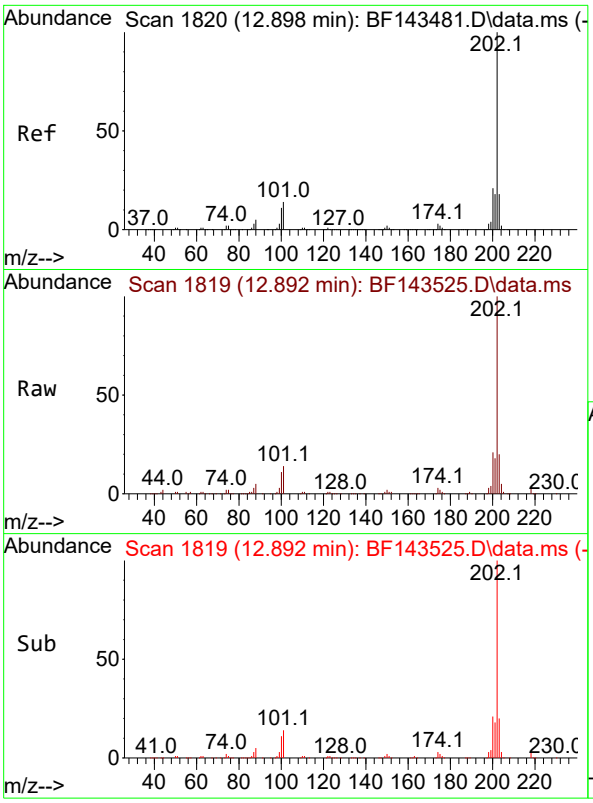


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.092 min Scan# 2023
Delta R.T. -0.012 min
Lab File: BF143525.D
Acq: 21 Aug 2025 12:46

Tgt Ion:240 Resp: 208452

Ion	Ratio	Lower	Upper
240	100		
120	10.6	8.6	12.8
236	25.4	20.4	30.6

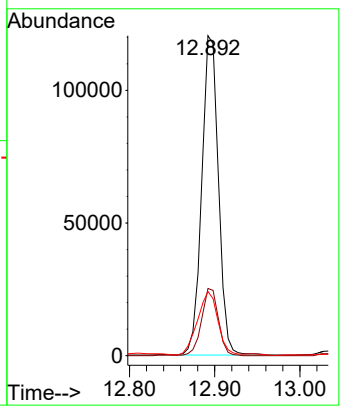




#78
Pyrene
Concen: 9.563 ng
RT: 12.892 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF143525.D
Acq: 21 Aug 2025 12:46

Tgt Ion:202 Resp: 16397

Ion	Ratio	Lower	Upper
202	100		
200	21.0	17.0	25.4
203	20.0	14.3	21.5



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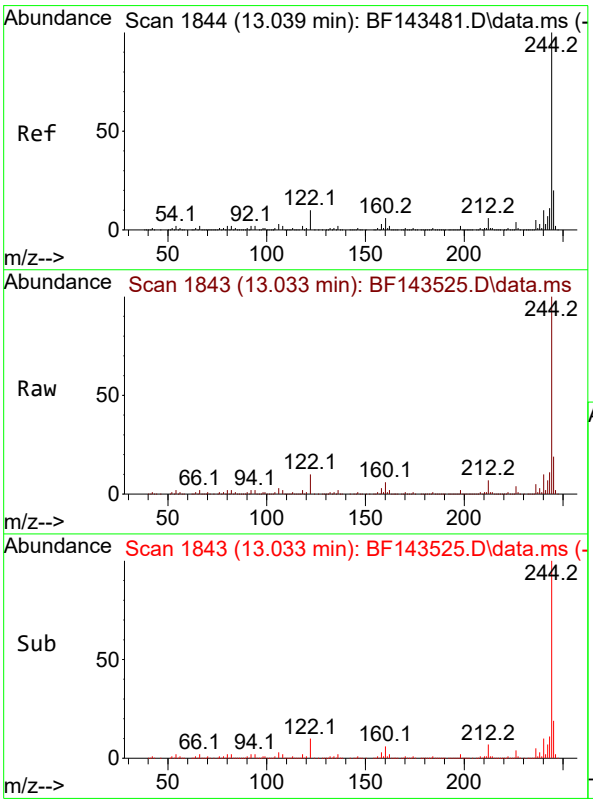
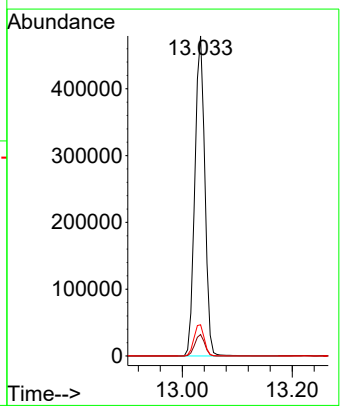
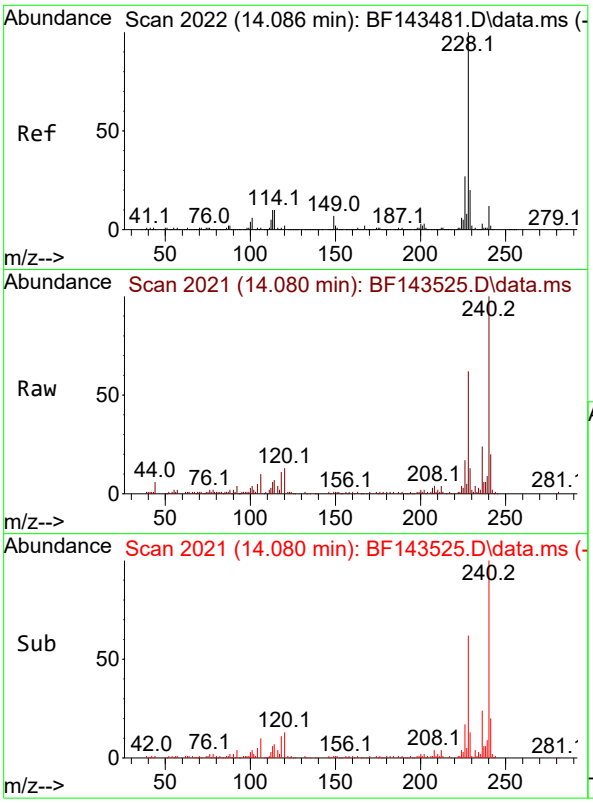


#79
Terphenyl-d14
Concen: 50.494 ng
RT: 13.033 min Scan# 1843
Delta R.T. -0.006 min
Lab File: BF143525.D
Acq: 21 Aug 2025 12:46

Tgt Ion:244 Resp: 603175

Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.2	7.8
122	9.7	7.9	11.9

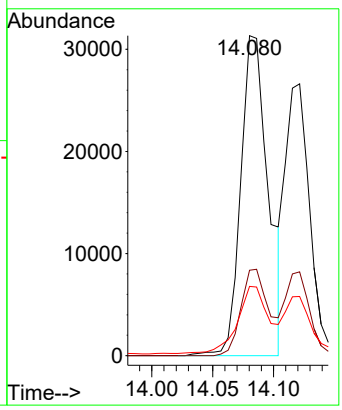




#81
Benzo(a)anthracene
Concen: 3.675 ng
RT: 14.080 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF143525.D
Acq: 21 Aug 2025 12:46

Tgt Ion:228 Resp: 4932

Ion	Ratio	Lower	Upper
228	100		
226	26.7	21.7	32.5
229	21.6	15.7	23.5



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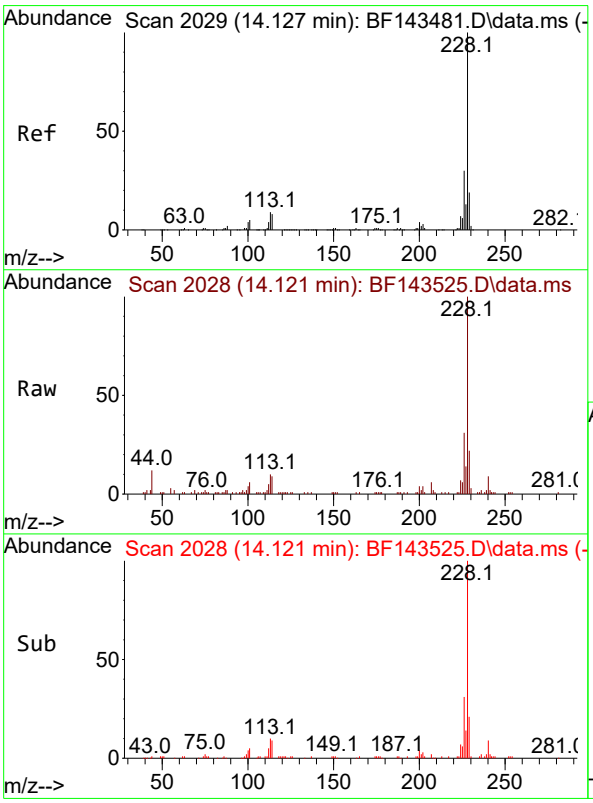
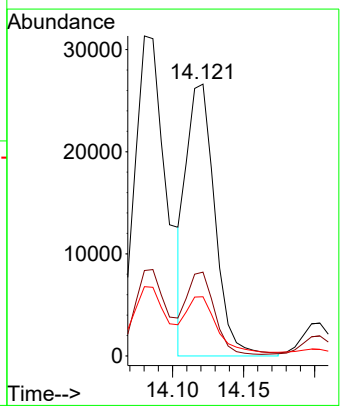
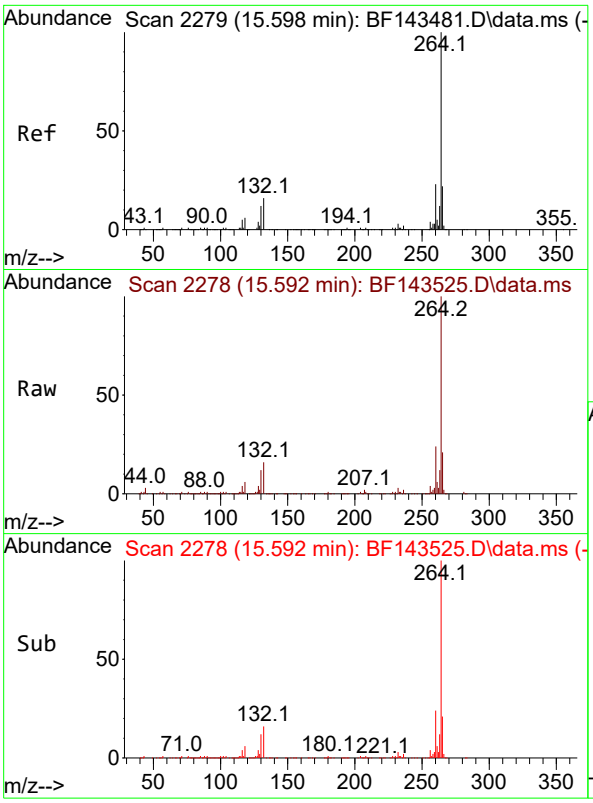


#83
Chrysene
Concen: 3.088 ng
RT: 14.121 min Scan# 2028
Delta R.T. -0.006 min
Lab File: BF143525.D
Acq: 21 Aug 2025 12:46

Tgt Ion:228 Resp: 37243

Ion	Ratio	Lower	Upper
228	100		
226	30.8	23.7	35.5
229	21.8	15.7	23.5

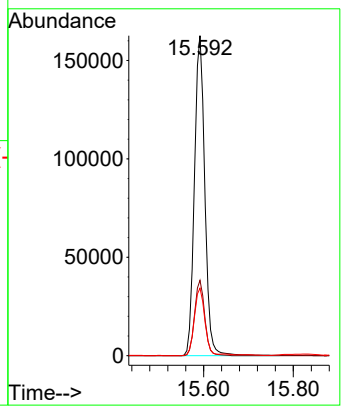




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.592 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF143525.D
Acq: 21 Aug 2025 12:46

Tgt Ion:264 Resp: 26183

Ion	Ratio	Lower	Upper
264	100		
260	23.5	18.7	28.1
265	21.1	17.6	26.4



Instrument :
BNA_F
ClientSampleId :
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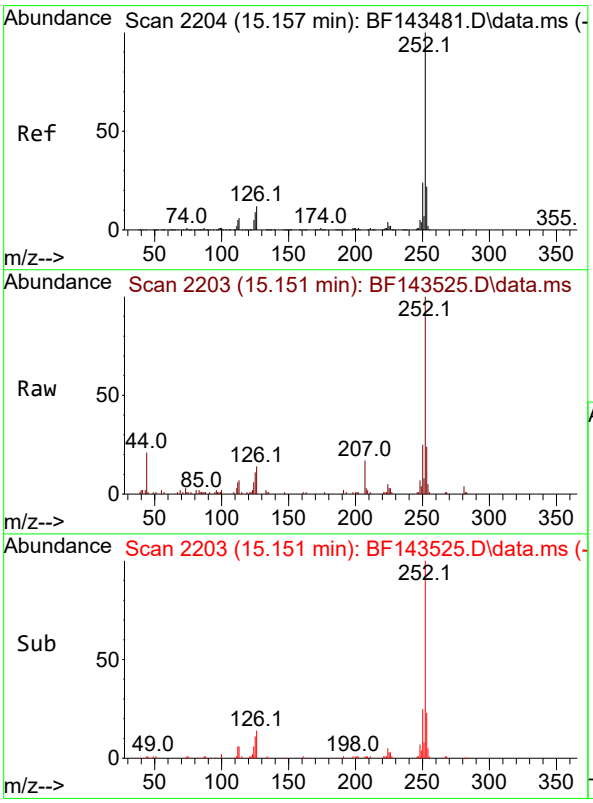
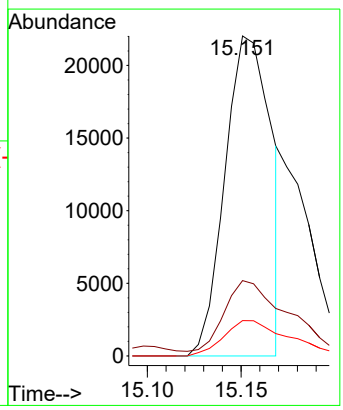


#88
Benzo(b)fluoranthene
Concen: 2.588 ng m
RT: 15.151 min Scan# 2203
Delta R.T. -0.006 min
Lab File: BF143525.D
Acq: 21 Aug 2025 12:46

Tgt Ion:252 Resp: 37661

Ion	Ratio	Lower	Upper
252	100		
253	23.5	17.5	26.3
125	11.0	7.4	11.0#



Sample Results: **BF143525.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
Data File : BF143525.D
Acq On : 21 Aug 2025 12:46
Operator : RC/JU
Sample : Q2819-07
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
11M-N

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-BF082025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF143525.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.275	6	14	26	rVB	805590	1313709	56.81%	4.778%
2	5.157	498	504	517	rBV	143607	222905	9.64%	0.811%
3	5.563	567	573	589	rBV	1589295	2097916	90.72%	7.629%
4	6.257	687	691	704	rBV2	10626	24786	1.07%	0.090%
5	6.557	736	742	758	rBV	1560605	2142617	92.65%	7.792%
6	6.922	799	804	812	rVB	541646	700686	30.30%	2.548%
7	7.481	893	899	911	rBV	1072438	1431019	61.88%	5.204%
8	8.204	1017	1022	1024	rBV	715965	955896	41.34%	3.476%
9	8.228	1024	1026	1032	rVV	655791	742357	32.10%	2.700%
10	8.281	1032	1035	1042	rVB	26905	37708	1.63%	0.137%
11	8.798	1119	1123	1132	rVB	39223	53823	2.33%	0.196%
12	8.922	1139	1144	1148	rBV	232753	298042	12.89%	1.084%
13	8.969	1148	1152	1156	rVV	149909	197886	8.56%	0.720%
14	9.016	1156	1160	1166	rVB	161138	210069	9.08%	0.764%
15	9.281	1199	1205	1210	rBV	1866336	2312517	100.00%	8.410%
16	9.381	1218	1222	1227	rVB	66221	86511	3.74%	0.315%
17	9.481	1231	1239	1245	rVV	19692	33255	1.44%	0.121%
18	9.545	1245	1250	1255	rVV	60744	97456	4.21%	0.354%
19	9.616	1255	1262	1265	rVV3	94593	188908	8.17%	0.687%
20	9.645	1265	1267	1275	rVB	46697	57532	2.49%	0.209%
21	9.733	1275	1282	1292	rBV3	34100	89410	3.87%	0.325%
22	9.822	1292	1297	1301	rVB2	23625	31674	1.37%	0.115%
23	9.963	1313	1321	1324	rBV	796547	1058770	45.78%	3.850%
24	9.992	1324	1326	1330	rVV	449727	511934	22.14%	1.862%
25	10.033	1330	1333	1336	rVB	24005	28783	1.24%	0.105%
26	10.116	1342	1347	1351	rVB3	17017	25197	1.09%	0.092%
27	10.169	1351	1356	1360	rBV	331411	429869	18.59%	1.563%
28	10.369	1386	1390	1397	rVB3	13617	24620	1.06%	0.090%
29	10.510	1409	1414	1419	rBV	510419	635315	27.47%	2.310%
30	10.592	1419	1428	1432	rVV2	45243	113894	4.93%	0.414%
31	10.669	1434	1441	1447	rVV	265465	362902	15.69%	1.320%
32	10.751	1450	1455	1470	rVB	1034352	1379832	59.67%	5.018%
33	10.875	1470	1476	1483	rBV	84034	121610	5.26%	0.442%
34	10.980	1491	1494	1500	rVB2	38858	49834	2.15%	0.181%
35	11.057	1500	1507	1510	rBV4	56155	101668	4.40%	0.370%
36	11.139	1517	1521	1524	rVB2	18790	24339	1.05%	0.089%

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
Data File : BF143525.D
Acq On : 21 Aug 2025 12:46
Operator : RC/JU
Sample : Q2819-07
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
11M-N

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-BF082025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

37	11.186	1524	1529	1531	rBV3	16306	27135	1.17%	0.099%
38	11.257	1537	1541	1545	rVB2	33836	42785	1.85%	0.156%
39	11.304	1545	1549	1552	rVV3	30380	46305	2.00%	0.168%
40	11.345	1552	1556	1562	rVB	92583	122567	5.30%	0.446%
41	11.451	1568	1574	1575	rBV	688391	793426	34.31%	2.885%
42	11.475	1575	1578	1583	rVV	1309686	1683242	72.79%	6.121%
43	11.527	1583	1587	1590	rVV	136446	189126	8.18%	0.688%
44	11.563	1590	1593	1598	rVB	48270	66446	2.87%	0.242%
45	11.680	1607	1613	1620	rBV	303877	408530	17.67%	1.486%
46	11.745	1620	1624	1628	rVV4	20566	36534	1.58%	0.133%
47	11.786	1628	1631	1636	rVV4	15018	27375	1.18%	0.100%
48	11.857	1637	1643	1650	rVB4	11952	27508	1.19%	0.100%
49	11.951	1654	1659	1661	rBV	75763	101599	4.39%	0.369%
50	11.980	1661	1664	1669	rVV	124768	164367	7.11%	0.598%
51	12.027	1669	1672	1674	rVV	26598	34112	1.48%	0.124%
52	12.063	1674	1678	1686	rVB2	147582	250377	10.83%	0.911%
53	12.245	1706	1709	1713	rBV	38086	42811	1.85%	0.156%
54	12.663	1776	1780	1784	rBV	466210	608747	26.32%	2.214%
55	12.698	1784	1786	1790	rVB3	56672	64746	2.80%	0.235%
56	12.851	1808	1812	1814	rBV	130512	159567	6.90%	0.580%
57	12.892	1814	1819	1833	rVB2	291984	519776	22.48%	1.890%
58	13.033	1836	1843	1851	rBV	1259684	1618667	70.00%	5.887%
59	13.116	1851	1857	1861	rBV3	20829	38462	1.66%	0.140%
60	13.221	1866	1875	1879	rBV3	56993	108678	4.70%	0.395%
61	13.292	1883	1887	1890	rVV	44750	55445	2.40%	0.202%
62	13.327	1890	1893	1901	rVB3	22181	40913	1.77%	0.149%
63	13.469	1912	1917	1922	rBV3	26952	43425	1.88%	0.158%
64	13.557	1927	1932	1936	rBV	76801	94828	4.10%	0.345%
65	14.092	2015	2023	2035	rVB2	488053	806377	34.87%	2.933%
66	14.863	2150	2154	2160	rVB	19410	28193	1.22%	0.103%
67	15.151	2198	2203	2211	rBV	58564	139636	6.04%	0.508%
68	15.210	2211	2213	2219	rVB2	24450	33380	1.44%	0.121%
69	15.463	2252	2256	2262	rVB	28276	43660	1.89%	0.159%
70	15.527	2262	2267	2272	rVV	32045	49321	2.13%	0.179%
71	15.592	2272	2278	2294	rVB	432576	721614	31.20%	2.624%
72	16.057	2352	2357	2363	rBV	17081	29957	1.30%	0.109%
73	17.127	2533	2539	2546	rBV2	13814	32587	1.41%	0.119%

Sum of corrected areas: 27497473

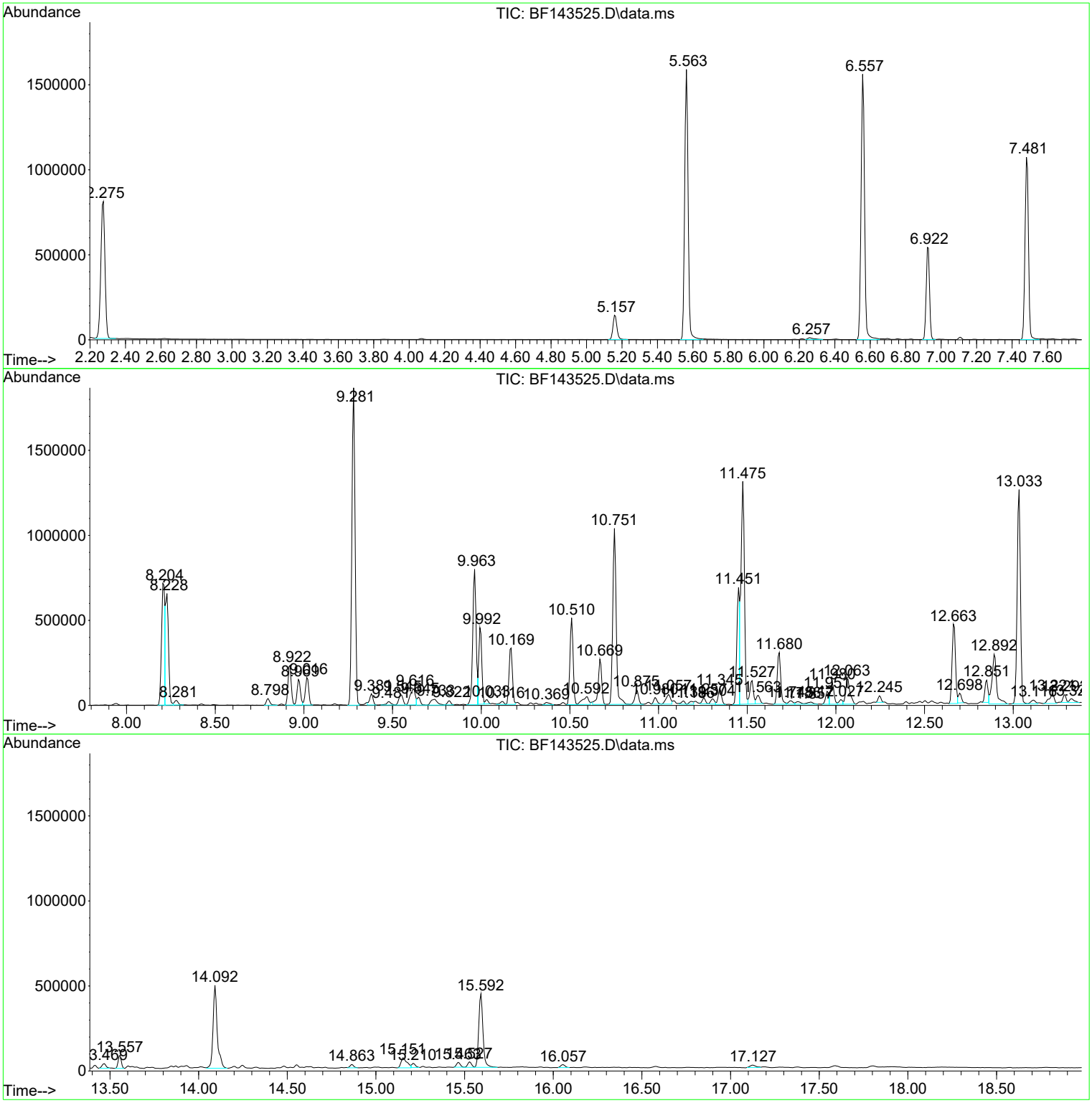
Sample Results: **BF143525.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
Data File : BF143525.D
Acq On : 21 Aug 2025 12:46
Operator : RC/JU
Sample : Q2819-07
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
11M-N

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.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\BF082125\
Data File : BF143525.D
Acq On : 21 Aug 2025 12:46
Operator : RC/JU
Sample : Q2819-07
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
11M-N

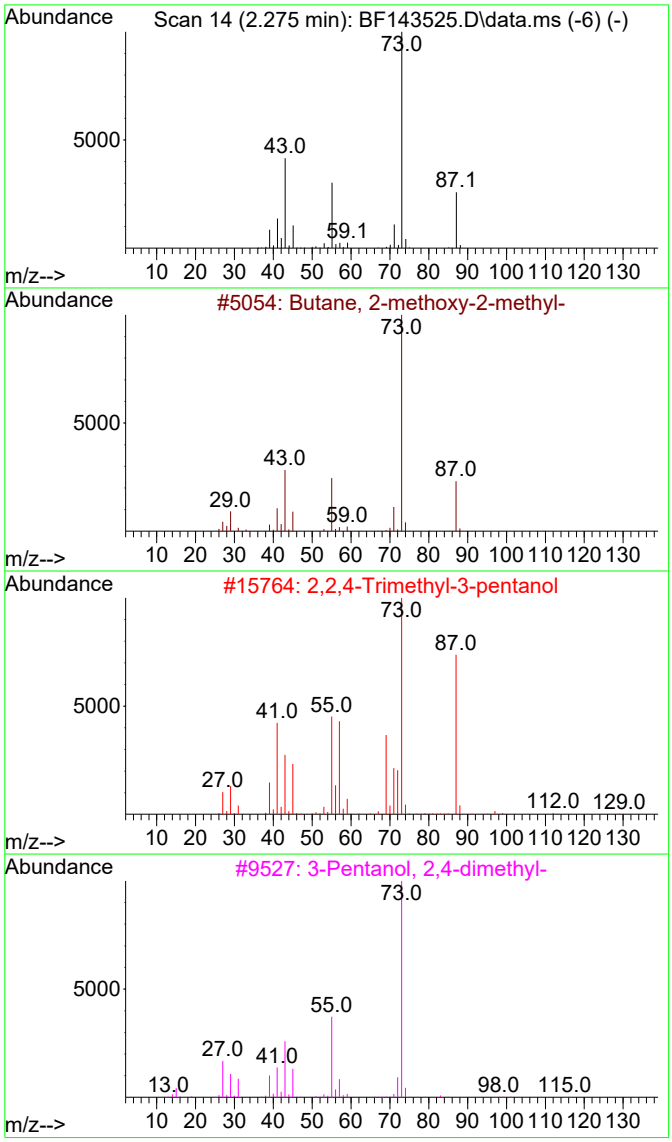
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

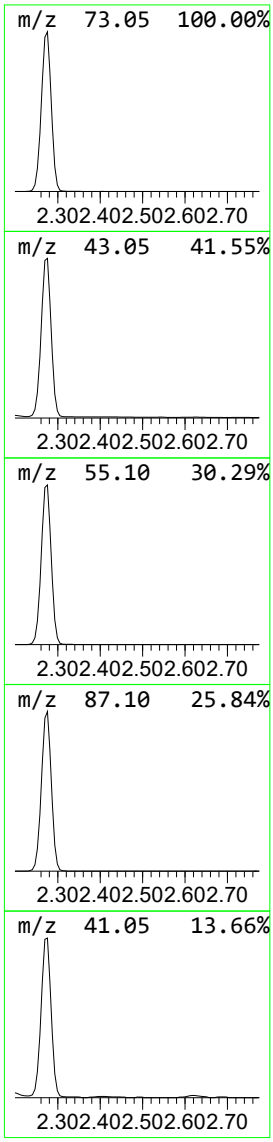
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.275	37.50 ng	1313710	1,4-Dichlorobenzene-d4	6.928

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\BF082125\
Data File : BF143525.D
Acq On : 21 Aug 2025 12:46
Operator : RC/JU
Sample : Q2819-07
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
11M-N

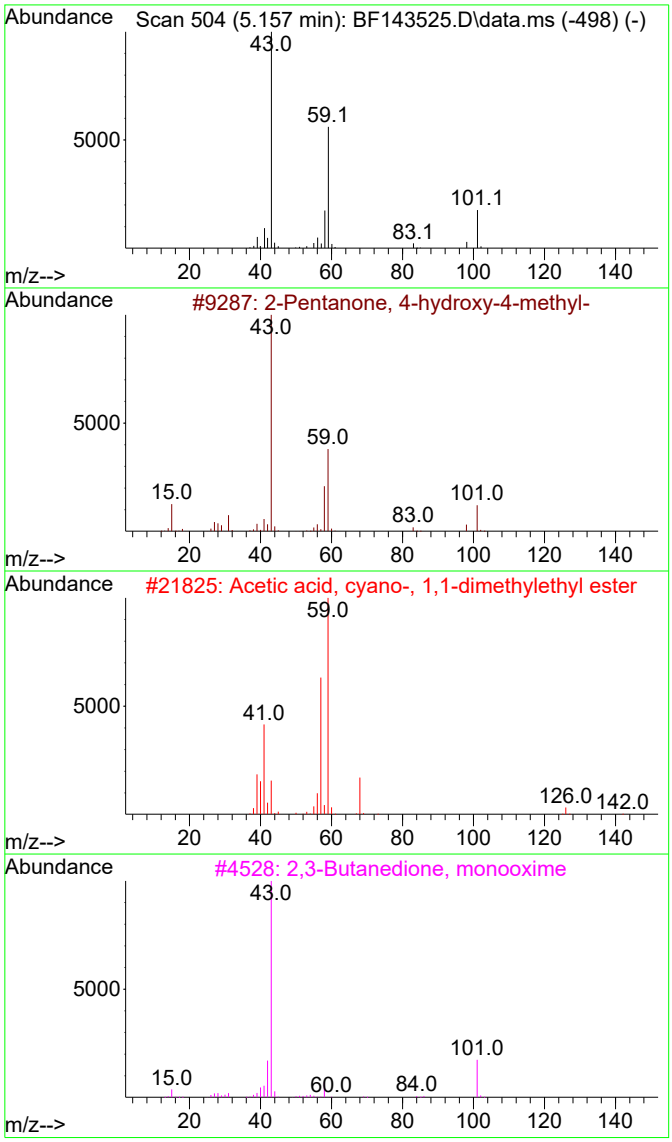
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

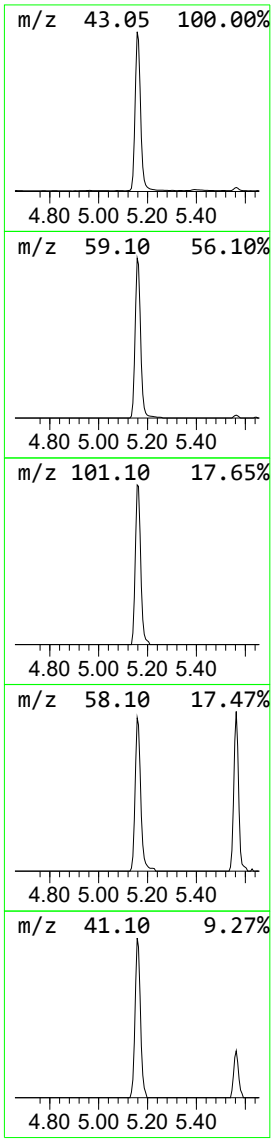
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.157	6.36 ng	222905	1,4-Dichlorobenzene-d4	6.928

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	59
2	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	23
3	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	16
4	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	12
5	3-Hexanol, 4-methyl-	116	C7H16O	000615-29-2	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
Data File : BF143525.D
Acq On : 21 Aug 2025 12:46
Operator : RC/JU
Sample : Q2819-07
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
11M-N

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

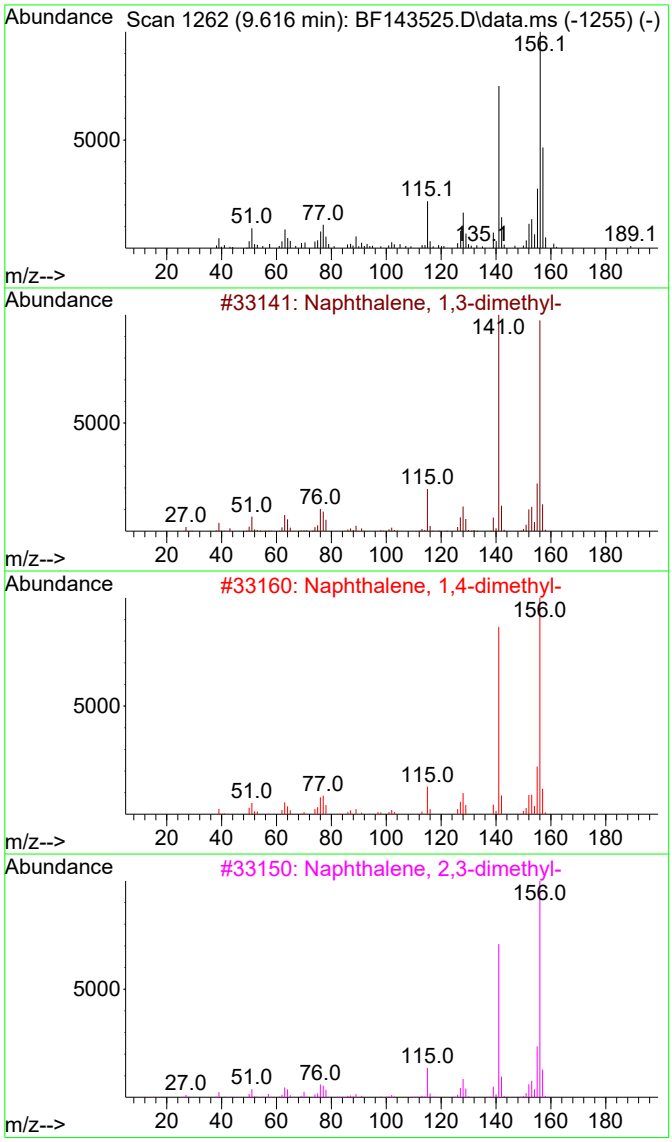
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

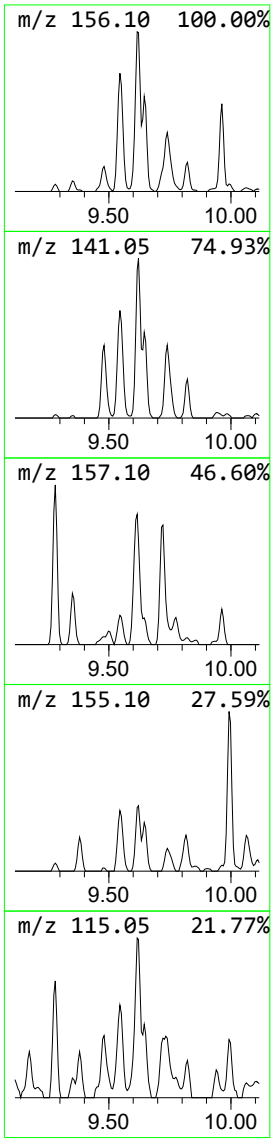
****

Peak Number 3 Naphthalene, 1,3-dimethyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.616	3.57 ng	188908	Acenaphthene-d10	9.963

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	95
2	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	95
3	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	95
4	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	95
5	Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	94





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Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
Data File : BF143525.D
Acq On    : 21 Aug 2025  12:46
Operator  : RC/JU
Sample    : Q2819-07
Misc      :
ALS Vial  : 9   Sample Multiplier: 1

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

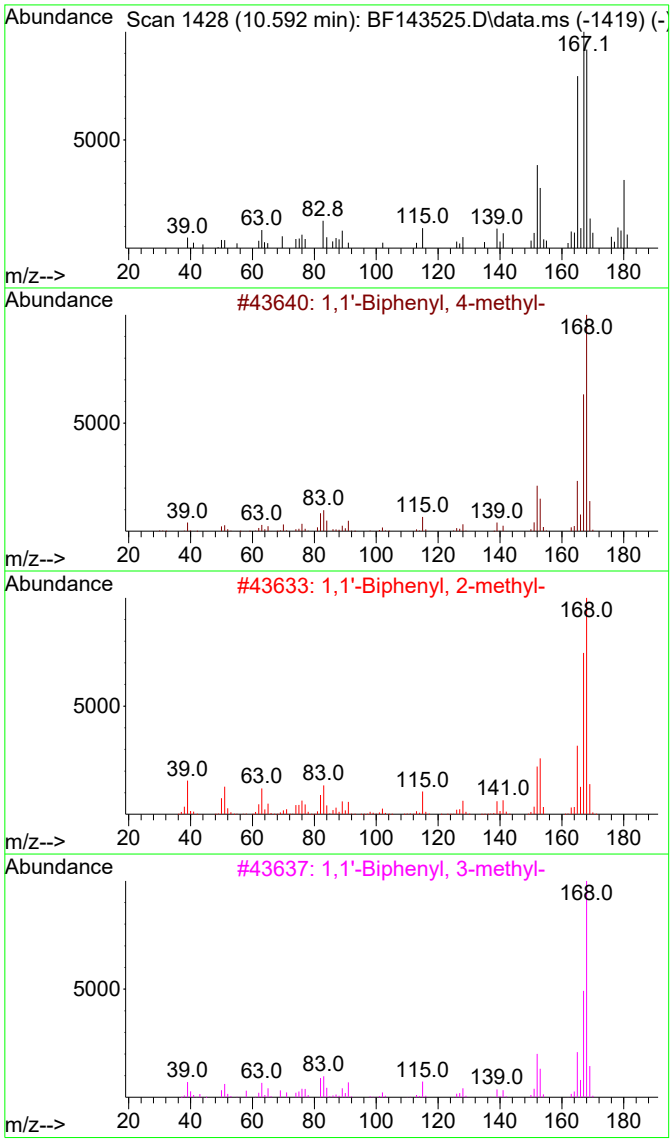
Instrument :
BNA_F
ClientSampleId :
11M-N

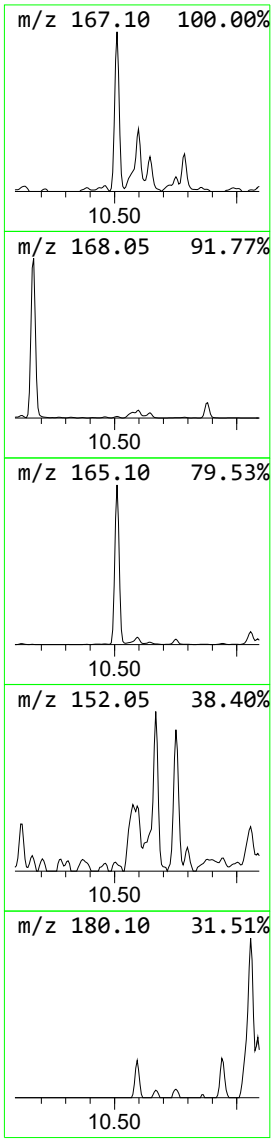
****

Peak Number 4 1,1'-Biphenyl, 4-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.592	2.15 ng	113894	Acenaphthene-d10	9.963

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,1'-Biphenyl, 4-methyl-	168	C13H12	000644-08-6	87
2	1,1'-Biphenyl, 2-methyl-	168	C13H12	000643-58-3	83
3	1,1'-Biphenyl, 3-methyl-	168	C13H12	000643-93-6	70
4	Diphenylmethane	168	C13H12	000101-81-5	64
5	Fluorene, 1,4-dihydro-	168	C13H12	041593-21-9	60





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
Data File : BF143525.D
Acq On : 21 Aug 2025 12:46
Operator : RC/JU
Sample : Q2819-07
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
11M-N

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

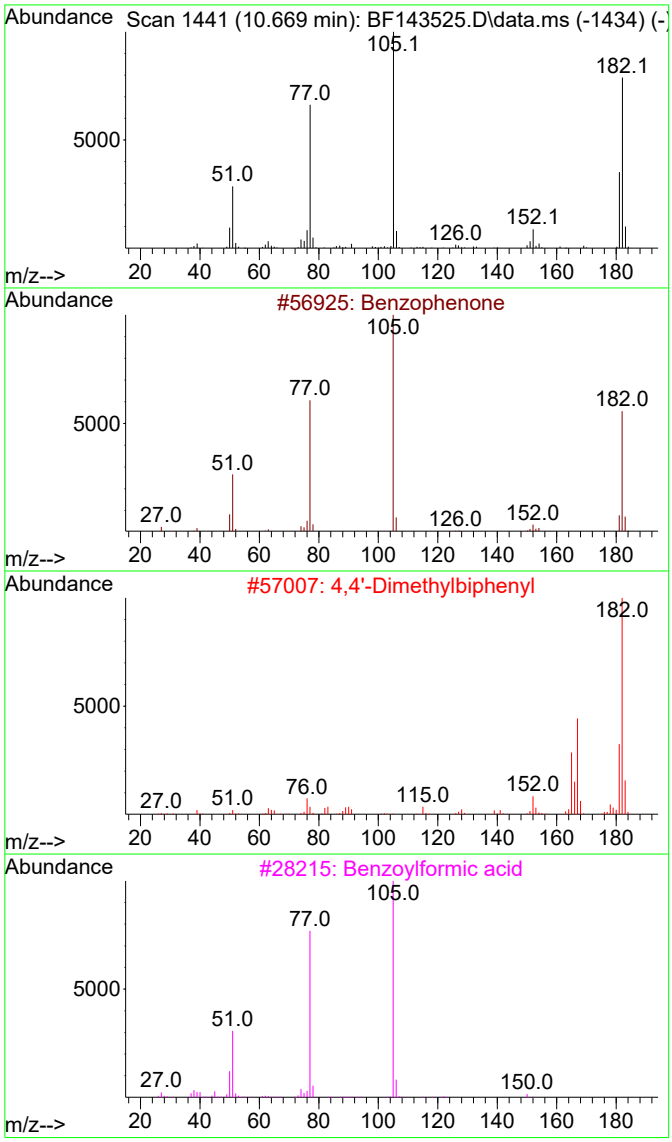
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

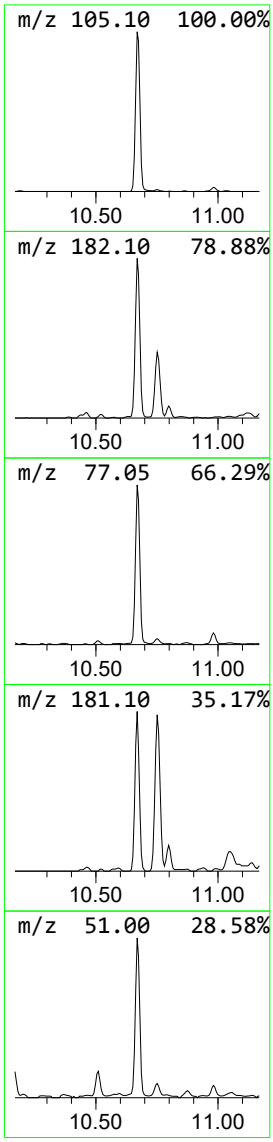
****

Peak Number 5 Benzophenone Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.669	6.86 ng	362902	Acenaphthene-d10	9.963

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	94
2	4,4'-Dimethylbiphenyl	182	C14H14	000613-33-2	43
3	Benzoylformic acid	150	C8H6O3	000611-73-4	41
4	Benzenecarbothioic acid, S-methy...	152	C8H8OS	005925-68-8	41
5	Ethanedione, diphenyl-	210	C14H10O2	000134-81-6	35





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
Data File : BF143525.D
Acq On : 21 Aug 2025 12:46
Operator : RC/JU
Sample : Q2819-07
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
11M-N

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

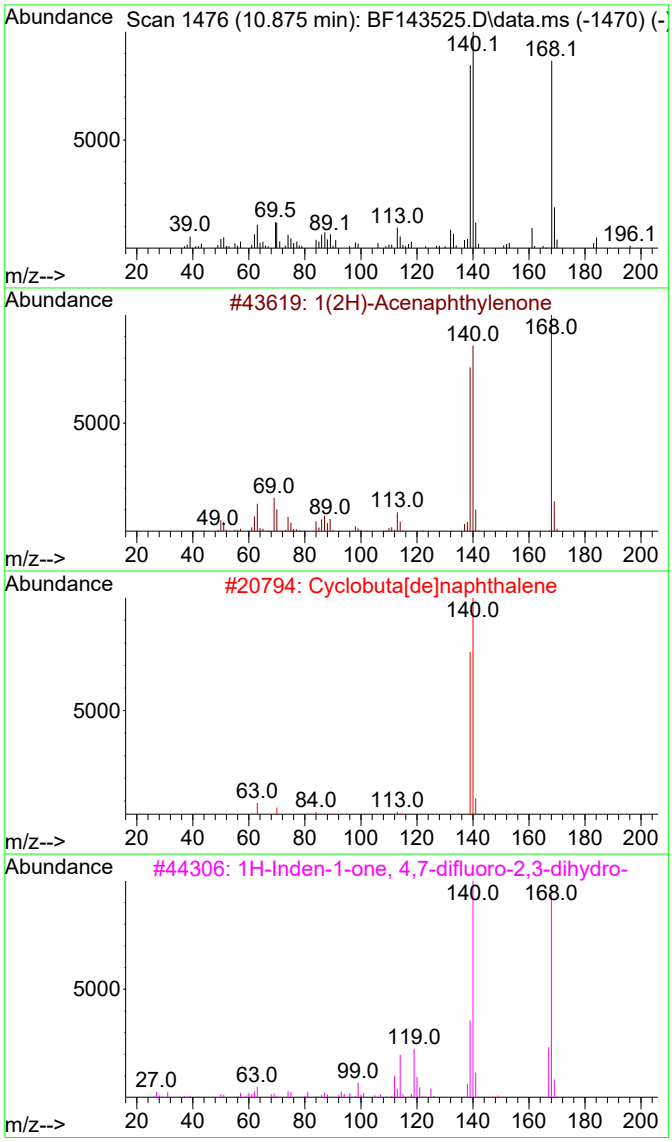
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

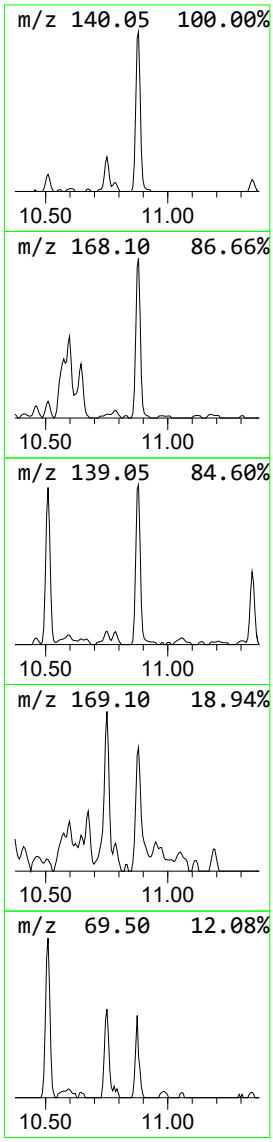
****

Peak Number 6 1(2H)-Acenaphthylenone Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.875	3.07 ng	121610	Phenanthrene-d10	11.451

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1(2H)-Acenaphthylenone	168	C12H8O	002235-15-6	95
2	Cyclobuta[de]naphthalene	140	C11H8	024973-91-9	60
3	1H-Inden-1-one, 4,7-difluoro-2,3...	168	C9H6F2O	130408-16-1	50
4	Thiophene, 2,5-dipropyl-	168	C10H16S	054411-07-3	49
5	Dibenzofuran	168	C12H8O	000132-64-9	49





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
Data File : BF143525.D
Acq On : 21 Aug 2025 12:46
Operator : RC/JU
Sample : Q2819-07
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
11M-N

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

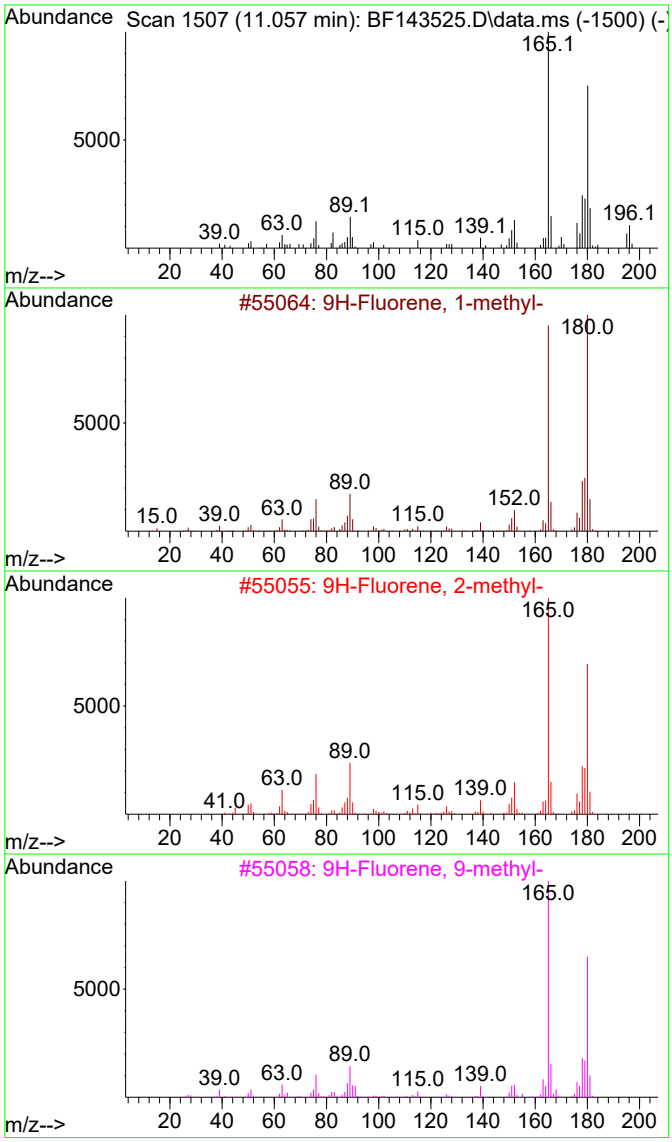
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

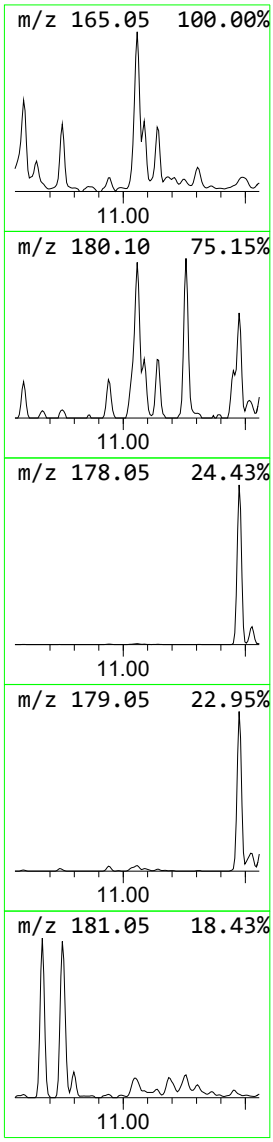
****

Peak Number 7 9H-Fluorene, 1-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.057	2.56 ng	101668	Phenanthrene-d10	11.451

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	96
2	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	96
3	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	90
4	9H-Fluorene, 4-methyl-	180	C14H12	001556-99-6	90
5	9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	89





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
Data File : BF143525.D
Acq On : 21 Aug 2025 12:46
Operator : RC/JU
Sample : Q2819-07
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
11M-N

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

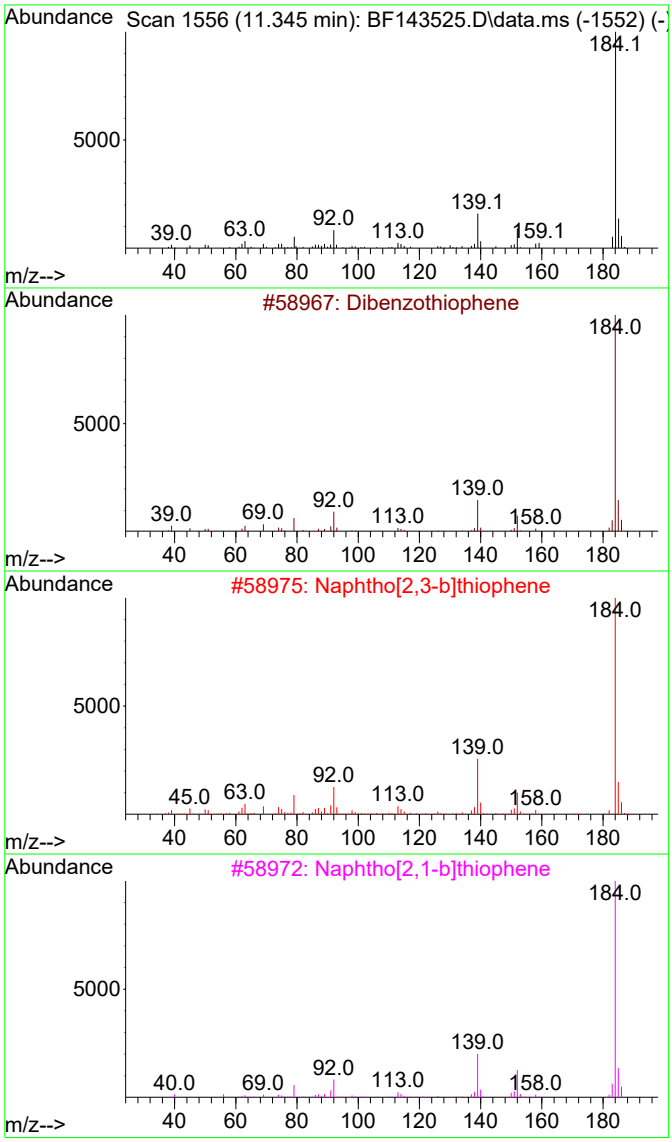
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

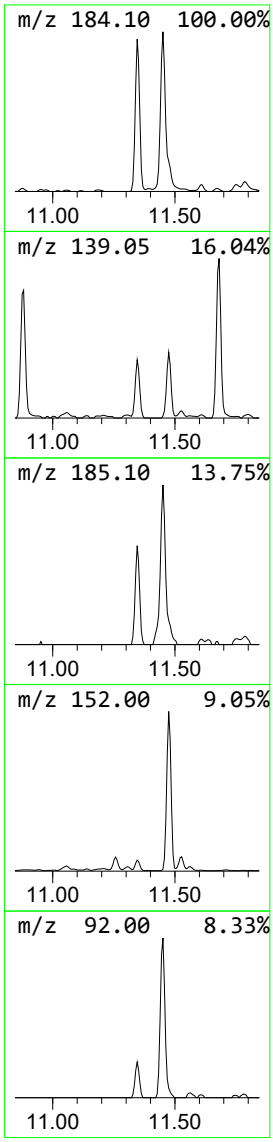
****

Peak Number 8 Dibenzothiophene Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.345	3.09 ng	122567	Phenanthrene-d10	11.451

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	96
2	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	94
3	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	94
4	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	91
5	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	90





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
Data File : BF143525.D
Acq On : 21 Aug 2025 12:46
Operator : RC/JU
Sample : Q2819-07
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
11M-N

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

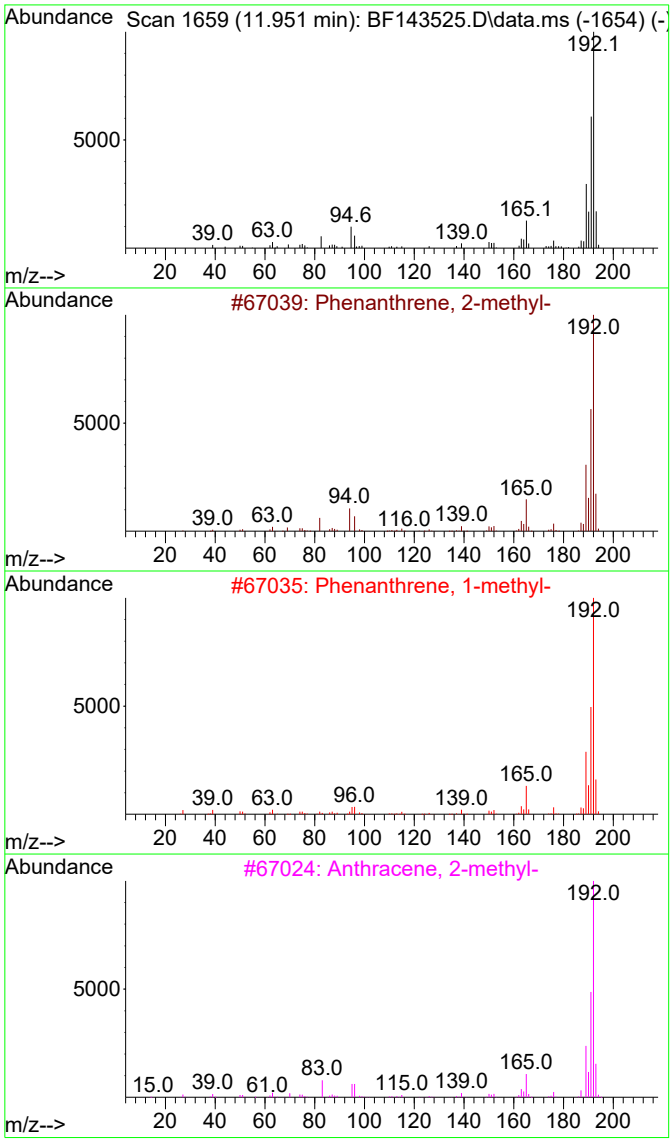
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

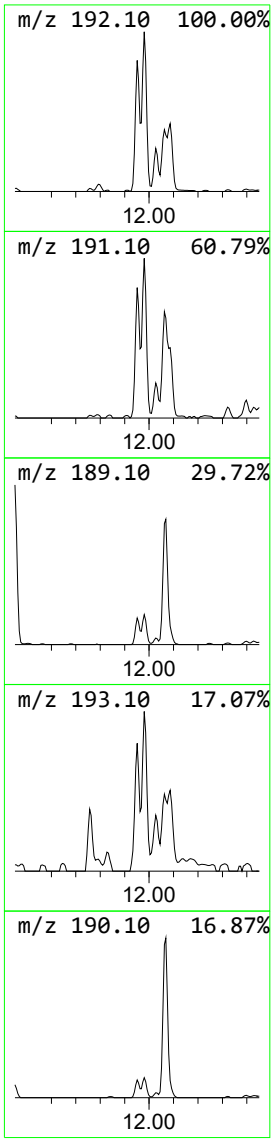
****

Peak Number 9 Phenanthrene, 2-methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.951	2.56 ng	101599	Phenanthrene-d10	11.451

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	93
5	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	93





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
Data File : BF143525.D
Acq On : 21 Aug 2025 12:46
Operator : RC/JU
Sample : Q2819-07
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
11M-N

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

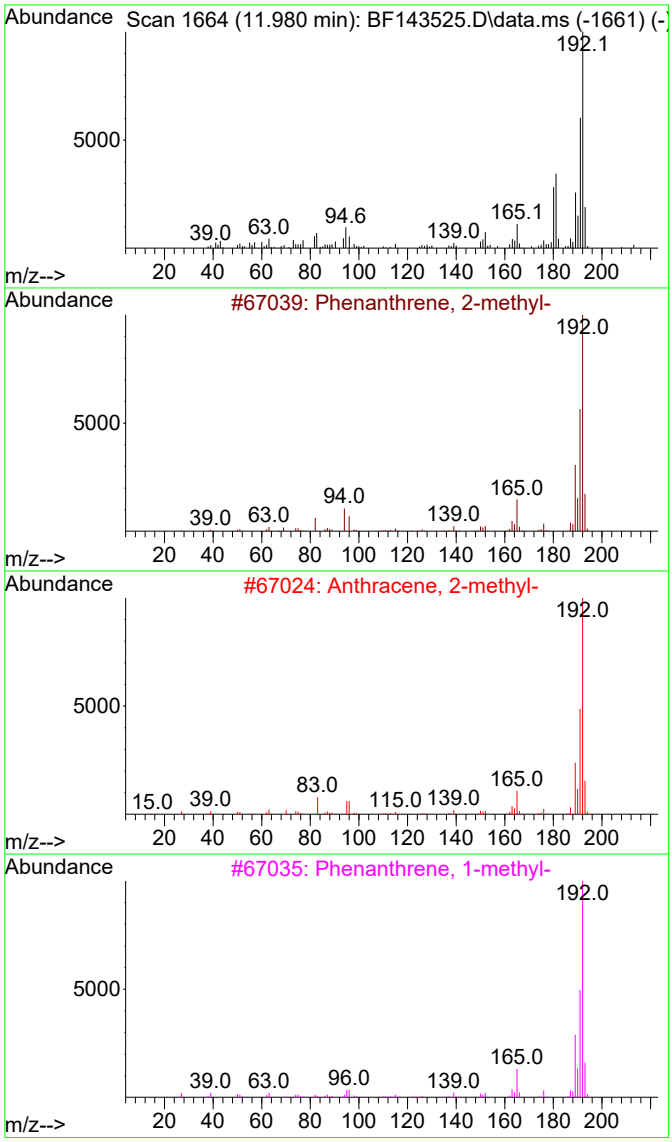
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

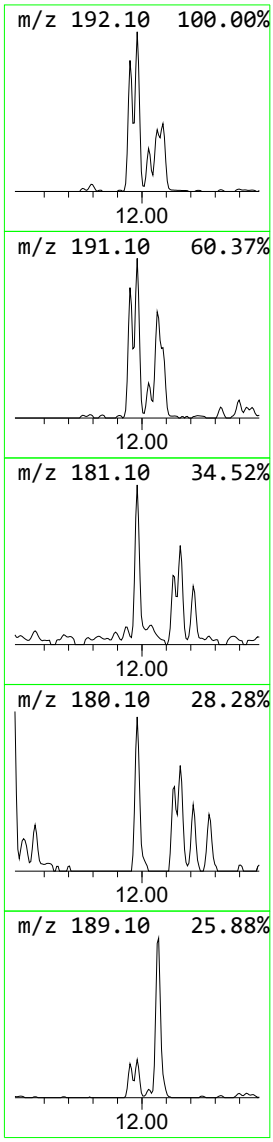
****

Peak Number 10 Anthracene, 2-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.980	4.14 ng	164367	Phenanthrene-d10	11.451

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	93
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	92
4	Anthracene, 9-methyl-	192	C15H12	000779-02-2	91
5	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	86





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Data File : BF143525.D
Acq On    : 21 Aug 2025  12:46
Operator  : RC/JU
Sample    : Q2819-07
Misc      :
ALS Vial  : 9   Sample Multiplier: 1

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

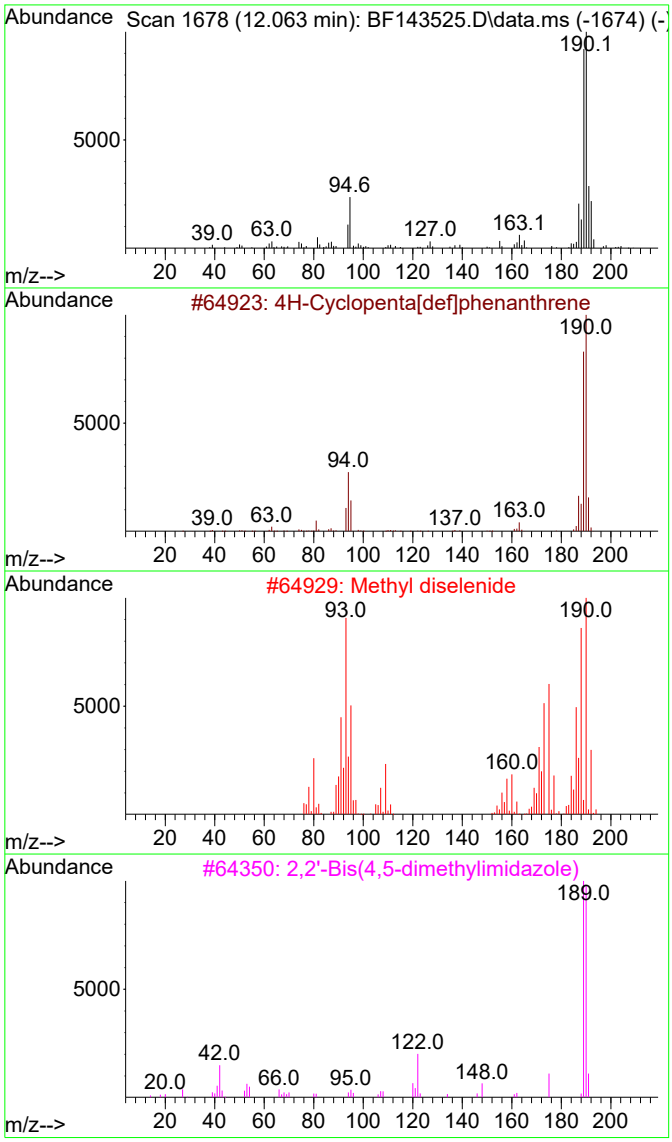
Instrument :
BNA_F
ClientSampleId :
11M-N

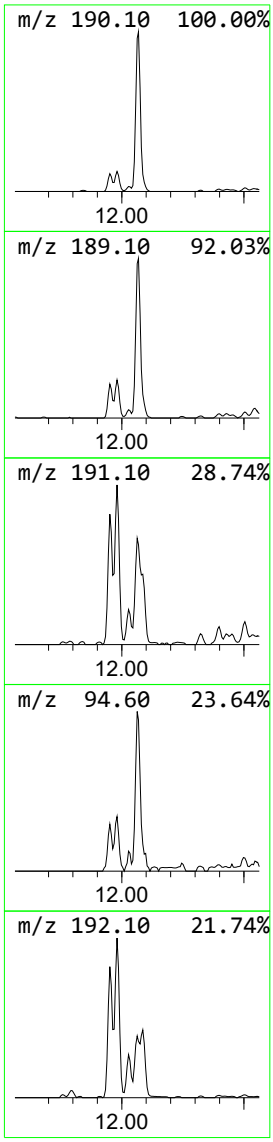
****

Peak Number 11 4H-Cyclopenta[def]phenanthrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.063	6.31 ng	250377	Phenanthrene-d10	11.451

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	93
2	Methyl diselenide	190	C2H6Se2	007101-31-7	46
3	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	40
4	4-(4-Chlorophenyl)pyridine	189	C11H8ClN	005957-96-0	35
5	1,4-Naphthalenedione, 2,5-dihydr...	190	C10H6O4	004923-55-1	25





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
Data File : BF143525.D
Acq On : 21 Aug 2025 12:46
Operator : RC/JU
Sample : Q2819-07
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
11M-N

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

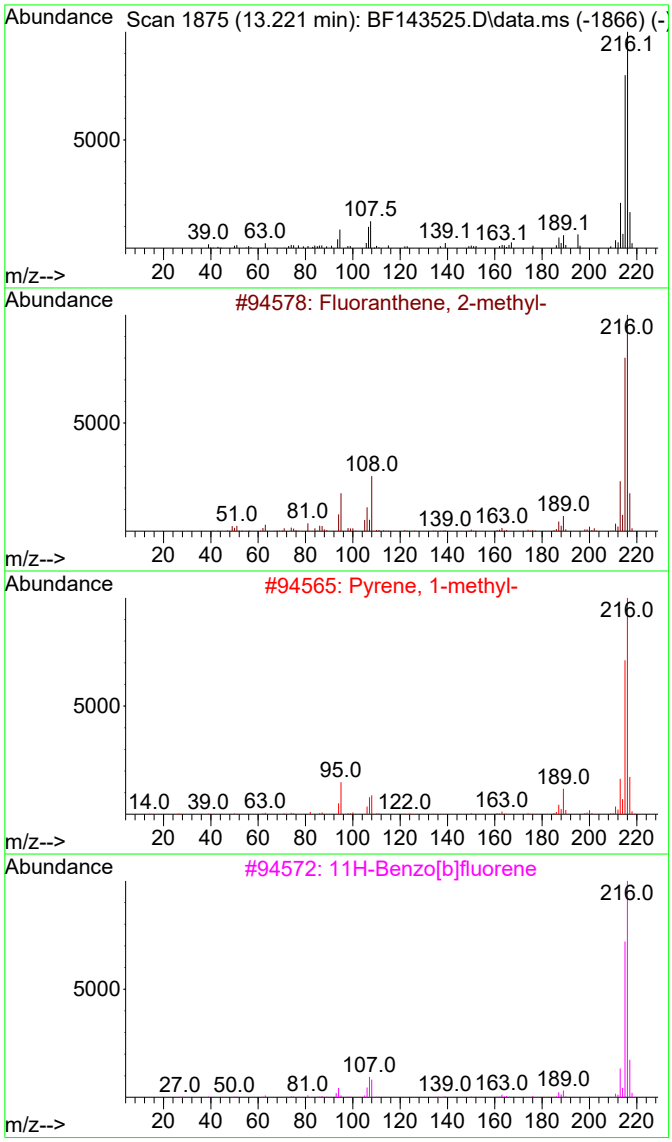
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

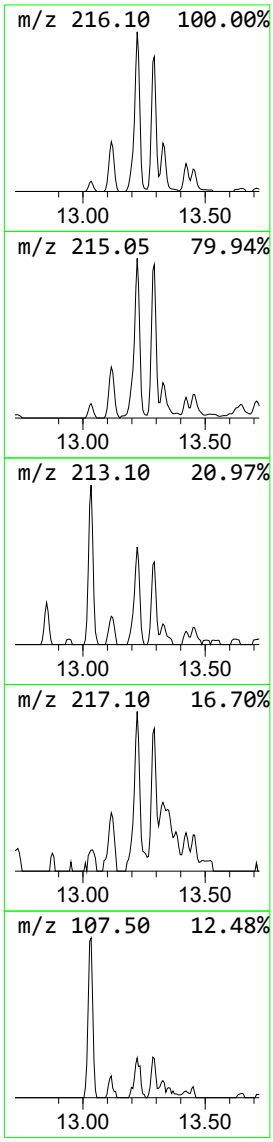
****

Peak Number 12 Fluoranthene, 2-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.222	2.70 ng	108678	Chrysene-d12	14.092

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	95
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	94
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	93
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	87
5	Pyrene, 2-methyl-	216	C17H12	003442-78-2	87





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
Data File : BF143525.D
Acq On : 21 Aug 2025 12:46
Operator : RC/JU
Sample : Q2819-07
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
11M-N

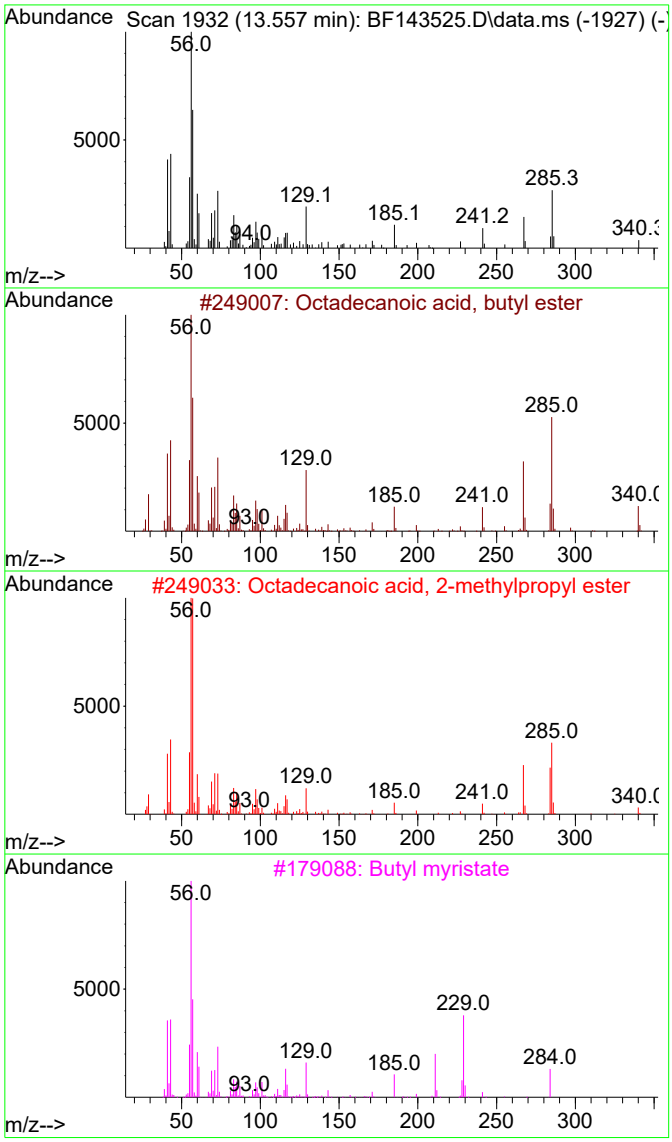
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

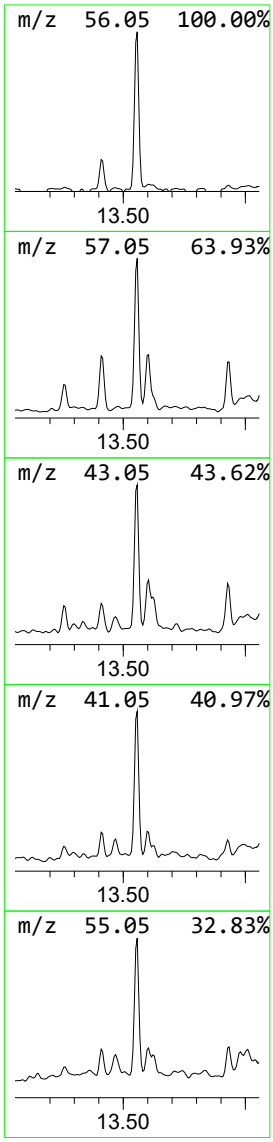
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 13 Octadecanoic acid, butyl ester Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.557	2.35 ng	94828	Chrysene-d12	14.092

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanoic acid, butyl ester	340	C22H44O2	000123-95-5	99
2	Octadecanoic acid, 2-methylpropy...	340	C22H44O2	000646-13-9	89
3	Butyl myristate	284	C18H36O2	000110-36-1	53
4	1,3-Hexanediol, 2-ethyl-	146	C8H18O2	000094-96-2	32
5	1-Pentene, 2,4-dimethyl-	98	C7H14	002213-32-3	30





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
Data File : BF143525.D
Acq On : 21 Aug 2025 12:46
Operator : RC/JU
Sample : Q2819-07
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
11M-N

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.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...	2.275	37.5	ng	1313710	1	6.928	700686	20.0
2-Pentanone, 4-...	5.157	6.4	ng	222905	1	6.928	700686	20.0
Naphthalene, 1,...	9.616	3.6	ng	188908	3	9.963	1058770	20.0
1,1'-Biphenyl, ...	10.592	2.1	ng	113894	3	9.963	1058770	20.0
Benzophenone	10.669	6.9	ng	362902	3	9.963	1058770	20.0
1(2H)-Acenaphth...	10.875	3.1	ng	121610	4	11.451	793426	20.0
9H-Fluorene, 1-...	11.057	2.6	ng	101668	4	11.451	793426	20.0
Dibenzothiophene	11.345	3.1	ng	122567	4	11.451	793426	20.0
Phenanthrene, 2...	11.951	2.6	ng	101599	4	11.451	793426	20.0
Anthracene, 2-m...	11.980	4.1	ng	164367	4	11.451	793426	20.0
4H-Cyclopenta[d...	12.063	6.3	ng	250377	4	11.451	793426	20.0
Fluoranthene, 2...	13.222	2.7	ng	108678	5	14.092	806377	20.0
Octadecanoic ac...	13.557	2.4	ng	94828	5	14.092	806377	20.0

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	11M-E	SDG No.:	Q2819
Lab Sample ID:	Q2819-08	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	71.8
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143526.D	1	08/14/25 08:40	08/21/25 13:15	PB169242

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
100-52-7	Benzaldehyde	380	U	220	380	460	ug/Kg
108-95-2	Phenol	180	U	30.7	180	240	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	180	U	33.8	180	240	ug/Kg
95-57-8	2-Chlorophenol	180	U	33.9	180	240	ug/Kg
95-48-7	2-Methylphenol	180	U	41.6	180	240	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	180	U	52.1	180	240	ug/Kg
98-86-2	Acetophenone	180	U	41.0	180	240	ug/Kg
65794-96-9	3+4-Methylphenols	380	U	57.1	380	460	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	110	U	65.9	110	110	ug/Kg
67-72-1	Hexachloroethane	180	U	24.5	180	240	ug/Kg
98-95-3	Nitrobenzene	180	U	25.4	180	240	ug/Kg
78-59-1	Isophorone	180	U	45.6	180	240	ug/Kg
88-75-5	2-Nitrophenol	180	U	80.9	180	240	ug/Kg
105-67-9	2,4-Dimethylphenol	180	U	90.1	180	240	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	180	U	42.8	180	240	ug/Kg
120-83-2	2,4-Dichlorophenol	180	U	39.3	180	240	ug/Kg
91-20-3	Naphthalene	180	U	31.6	180	240	ug/Kg
106-47-8	4-Chloroaniline	180	U	49.2	180	240	ug/Kg
87-68-3	Hexachlorobutadiene	180	U	35.2	180	240	ug/Kg
105-60-2	Caprolactam	380	U	72.4	380	460	ug/Kg
59-50-7	4-Chloro-3-methylphenol	180	U	39.9	180	240	ug/Kg
91-57-6	2-Methylnaphthalene	180	U	35.6	180	240	ug/Kg
77-47-4	Hexachlorocyclopentadiene	380	U	160	380	460	ug/Kg
88-06-2	2,4,6-Trichlorophenol	180	U	27.5	180	240	ug/Kg
95-95-4	2,4,5-Trichlorophenol	180	U	40.5	180	240	ug/Kg
92-52-4	1,1-Biphenyl	180	U	30.3	180	240	ug/Kg
91-58-7	2-Chloronaphthalene	180	U	31.3	180	240	ug/Kg
88-74-4	2-Nitroaniline	180	U	66.9	180	240	ug/Kg
131-11-3	Dimethylphthalate	180	U	37.7	180	240	ug/Kg

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	11M-E	SDG No.:	Q2819
Lab Sample ID:	Q2819-08	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	71.8
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143526.D	1	08/14/25 08:40	08/21/25 13:15	PB169242

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	180	U	40.2	180	240	ug/Kg
606-20-2	2,6-Dinitrotoluene	180	U	46.7	180	240	ug/Kg
99-09-2	3-Nitroaniline	180	U	64.0	180	240	ug/Kg
83-32-9	Acenaphthene	180	U	29.6	180	240	ug/Kg
51-28-5	2,4-Dinitrophenol	380	U	320	380	460	ug/Kg
100-02-7	4-Nitrophenol	380	U	150	380	460	ug/Kg
132-64-9	Dibenzofuran	180	U	31.6	180	240	ug/Kg
121-14-2	2,4-Dinitrotoluene	180	U	69.7	180	240	ug/Kg
84-66-2	Diethylphthalate	180	U	39.3	180	240	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	180	U	37.1	180	240	ug/Kg
86-73-7	Fluorene	180	U	35.2	180	240	ug/Kg
100-01-6	4-Nitroaniline	180	U	89.3	180	240	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	380	U	140	380	460	ug/Kg
86-30-6	n-Nitrosodiphenylamine	180	U	45.7	180	240	ug/Kg
101-55-3	4-Bromophenyl-phenylether	180	U	38.7	180	240	ug/Kg
118-74-1	Hexachlorobenzene	180	U	35.2	180	240	ug/Kg
1912-24-9	Atrazine	180	U	47.3	180	240	ug/Kg
87-86-5	Pentachlorophenol	380	U	71.3	380	460	ug/Kg
85-01-8	Phenanthrene	210	J	29.1	180	240	ug/Kg
120-12-7	Anthracene	180	U	46.3	180	240	ug/Kg
86-74-8	Carbazole	180	U	43.4	180	240	ug/Kg
84-74-2	Di-n-butylphthalate	180	U	66.6	180	240	ug/Kg
206-44-0	Fluoranthene	380		41.7	180	240	ug/Kg
129-00-0	Pyrene	260		50.1	180	240	ug/Kg
85-68-7	Butylbenzylphthalate	180	U	99.3	180	240	ug/Kg
91-94-1	3,3-Dichlorobenzidine	380	U	51.0	380	460	ug/Kg
56-55-3	Benzo(a)anthracene	180	J	32.0	180	240	ug/Kg
218-01-9	Chrysene	200	J	27.7	180	240	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	180	U	82.3	180	240	ug/Kg
117-84-0	Di-n-octyl phthalate	380	U	120	380	460	ug/Kg
205-99-2	Benzo(b)fluoranthene	240		26.4	180	240	ug/Kg

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	11M-E	SDG No.:	Q2819
Lab Sample ID:	Q2819-08	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	71.8
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143526.D	1	08/14/25 08:40	08/21/25 13:15	PB169242

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	93.9	J	31.1	180	240	ug/Kg
50-32-8	Benzo(a)pyrene	170	J	41.0	180	240	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	180	U	40.5	180	240	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	180	U	38.1	180	240	ug/Kg
191-24-2	Benzo(g,h,i)perylene	94.5	J	35.7	180	240	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	180	U	35.6	180	240	ug/Kg
123-91-1	1,4-Dioxane	180	UQ	62.8	180	240	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	180	U	38.1	180	240	ug/Kg
SURROGATES							
367-12-4	2-Fluorophenol	59.8		35 - 115		40%	SPK: 150
13127-88-3	Phenol-d6	65.5		34 - 127		44%	SPK: 150
4165-60-0	Nitrobenzene-d5	43.3		37 - 122		43%	SPK: 100
321-60-8	2-Fluorobiphenyl	54.7		44 - 115		55%	SPK: 100
118-79-6	2,4,6-Tribromophenol	100.0		39 - 132		67%	SPK: 150
1718-51-0	Terphenyl-d14	60.2		54 - 127		60%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	122000	6.928				
1146-65-2	Naphthalene-d8	460000	8.204				
15067-26-2	Acenaphthene-d10	239000	9.963				
1517-22-2	Phenanthrene-d10	332000	11.451				
1719-03-5	Chrysene-d12	226000	14.092				
1520-96-3	Perylene-d12	280000	15.592				
TENTATIVE IDENTIFIED COMPOUNDS							
000994-05-8	Butane, 2-methoxy-2-methyl-	590	J			2.26	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	330	AB			5.15	ug/Kg
000475-20-7	Longifolene	110	J			9.60	ug/Kg
000119-61-9	Benzophenone	240	J			10.7	ug/Kg
000511-15-9	2-Phenanthrenol, 4b,5,6,7,8,8a,9,1	160	J			13.5	ug/Kg
000123-95-5	Octadecanoic acid, butyl ester	100	JB			13.6	ug/Kg
000192-97-2	Benzo[e]pyrene	130	J			15.5	ug/Kg

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Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	11M-E	SDG No.:	Q2819
Lab Sample ID:	Q2819-08	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	71.8
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143526.D	1	08/14/25 08:40	08/21/25 13:15	PB169242

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
000112-95-8	Eicosane	100	J			16.1	ug/Kg

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

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
Data File : BF143526.D
Acq On : 21 Aug 2025 13:15
Operator : RC/JU
Sample : Q2819-08
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
11M-E

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 08/22/2025
Supervised By :mohammad ahmed 08/22/2025

Quant Time: Aug 21 13:52:58 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 21 06:12:21 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.928	152	121867	20.000	ng	0.00
21) Naphthalene-d8	8.204	136	459647	20.000	ng	0.00
39) Acenaphthene-d10	9.963	164	239052	20.000	ng	0.00
64) Phenanthrene-d10	11.451	188	332166	20.000	ng	0.00
76) Chrysene-d12	14.092	240	225807	20.000	ng	-0.01
86) Perylene-d12	15.592	264	280214	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.563	112	417584	59.833	ng	0.00
7) Phenol-d6	6.557	99	564215	65.489	ng	-0.02
23) Nitrobenzene-d5	7.481	82	340976	43.289	ng	-0.02
42) 2,4,6-Tribromophenol	10.751	330	222437	99.962	ng	-0.01
45) 2-Fluorobiphenyl	9.281	172	790732	54.667	ng	0.00
79) Terphenyl-d14	13.033	244	779515	60.241	ng	0.00
Target Compounds						Qvalue
71) Phenanthrene	11.475	178	80869	4.546	ng	99
75) Fluoranthene	12.663	202	131237	8.222	ng	99
78) Pyrene	12.892	202	105809	5.697	ng	98
81) Benzo(a)anthracene	14.086	228	56053	3.856	ng	98
83) Chrysene	14.116	228	57195	4.378	ng	97
88) Benzo(b)fluoranthene	15.151	252	80646m	5.178	ng	
89) Benzo(k)fluoranthene	15.168	252	30208m	2.026	ng	
90) Benzo(a)pyrene	15.527	252	54410	3.763	ng	98
92) Benzo(g,h,i)perylene	17.580	276	32686	2.038	ng	96

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

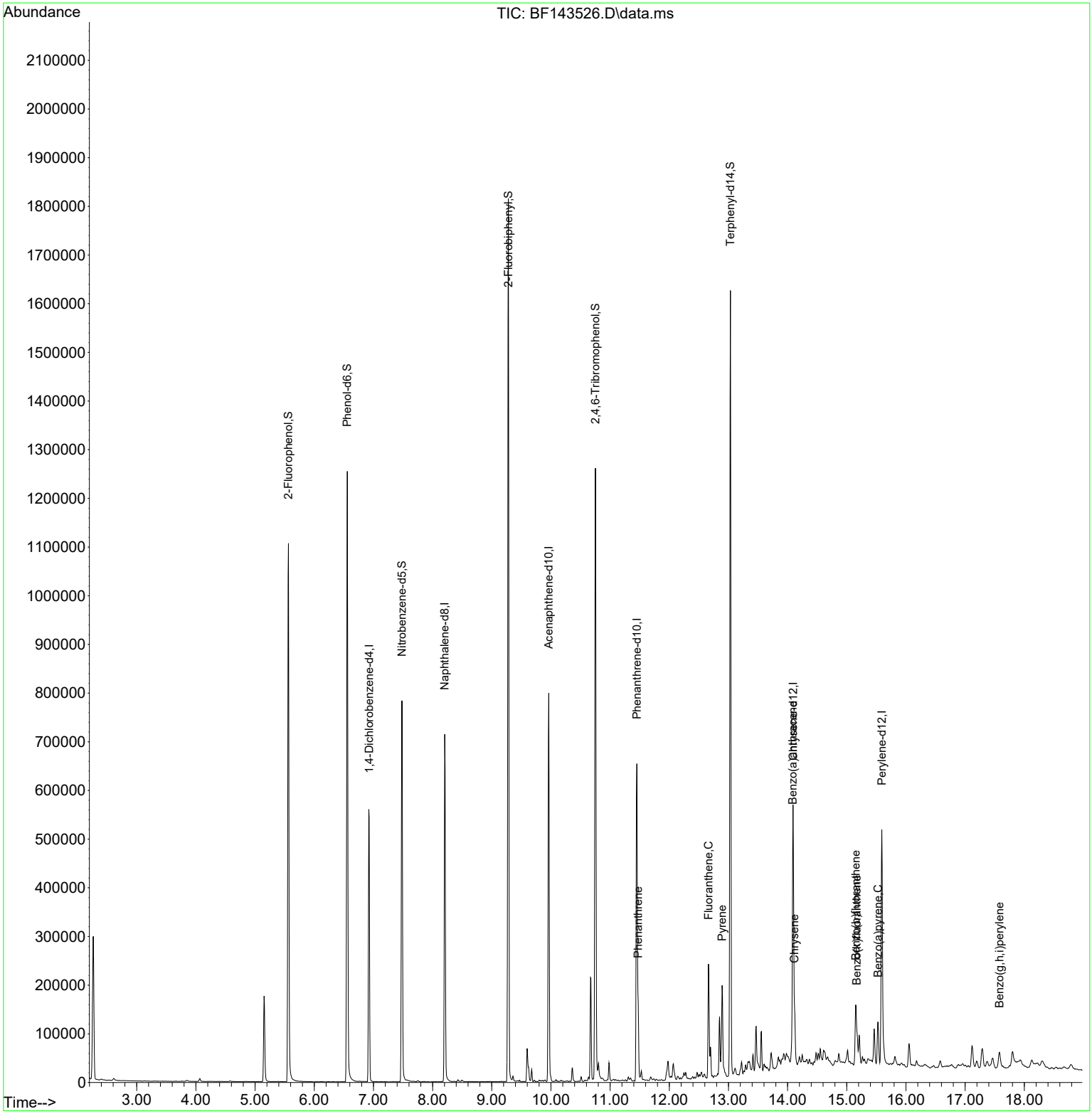
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
Data File : BF143526.D
Acq On : 21 Aug 2025 13:15
Operator : RC/JU
Sample : Q2819-08
Misc :
ALS Vial : 10 Sample Multiplier: 1

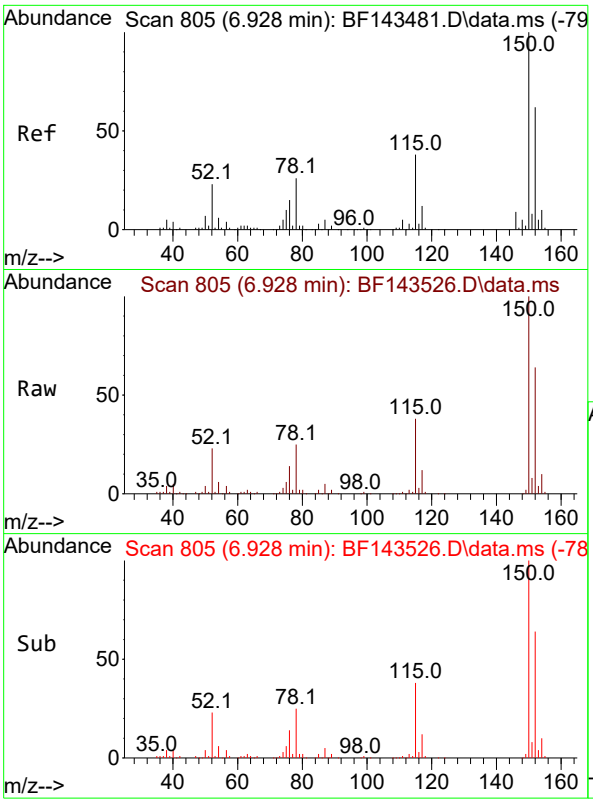
Quant Time: Aug 21 13:52:58 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 21 06:12:21 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
11M-E

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 08/22/2025
Supervised By :mohammad ahmed 08/22/2025

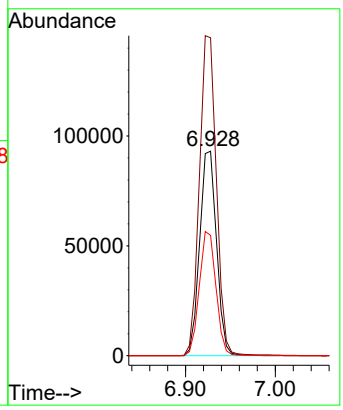




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.928 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF143526.D
Acq: 21 Aug 2025 13:15

Tgt Ion:152 Resp: 12186

Ion	Ratio	Lower	Upper
152	100		
150	155.5	128.9	193.3
115	58.8	49.2	73.8



Instrument :
BNA_F
ClientSampleId :
11M-E

Manual Integrations
APPROVED

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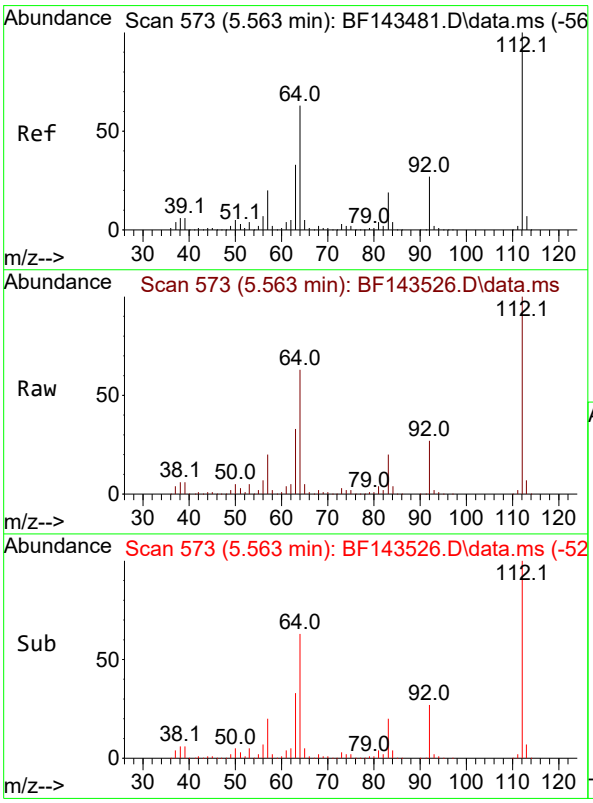
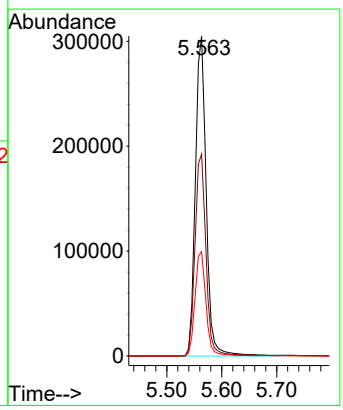
Supervised By :mohammad ahmed 08/22/2025

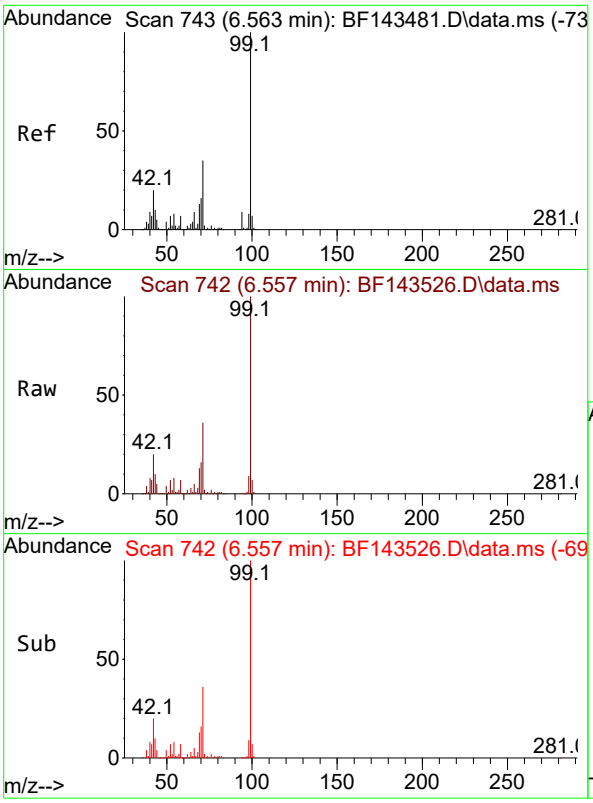


#5
2-Fluorophenol
Concen: 59.833 ng
RT: 5.563 min Scan# 573
Delta R.T. 0.000 min
Lab File: BF143526.D
Acq: 21 Aug 2025 13:15

Tgt Ion:112 Resp: 417584

Ion	Ratio	Lower	Upper
112	100		
64	63.1	50.4	75.6
63	32.6	26.4	39.6

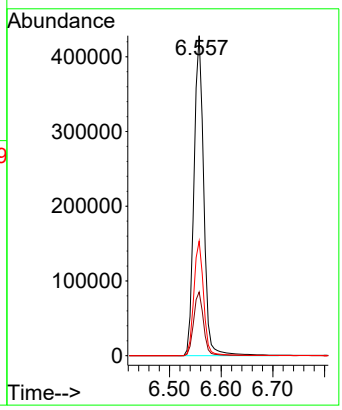




#7
Phenol-d6
Concen: 65.489 ng
RT: 6.557 min Scan# 7
Delta R.T. -0.018 min
Lab File: BF143526.D
Acq: 21 Aug 2025 13:15

Tgt Ion: 99 Resp: 56421

Ion	Ratio	Lower	Upper
99	100		
42	19.9	16.3	24.5
71	35.8	28.2	42.2



Instrument :
BNA_F
ClientSampleId :
11M-E

Manual Integrations
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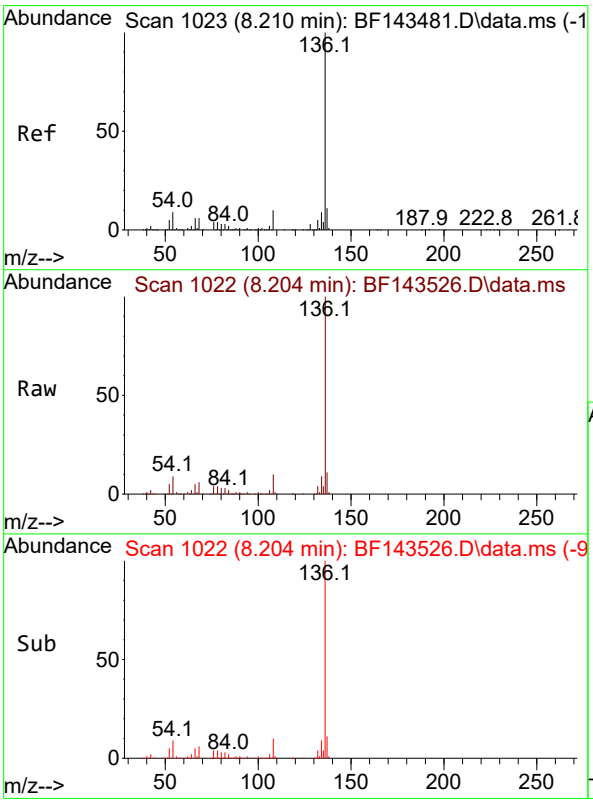
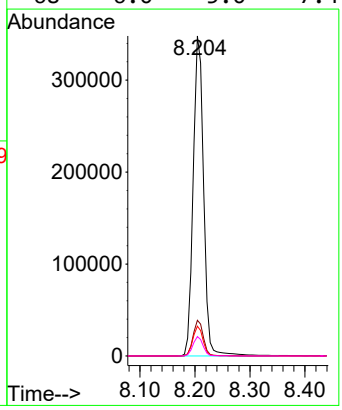
Reviewed By :Rahul Chavli 08/22/2025
Supervised By :mohammad ahmed 08/22/2025

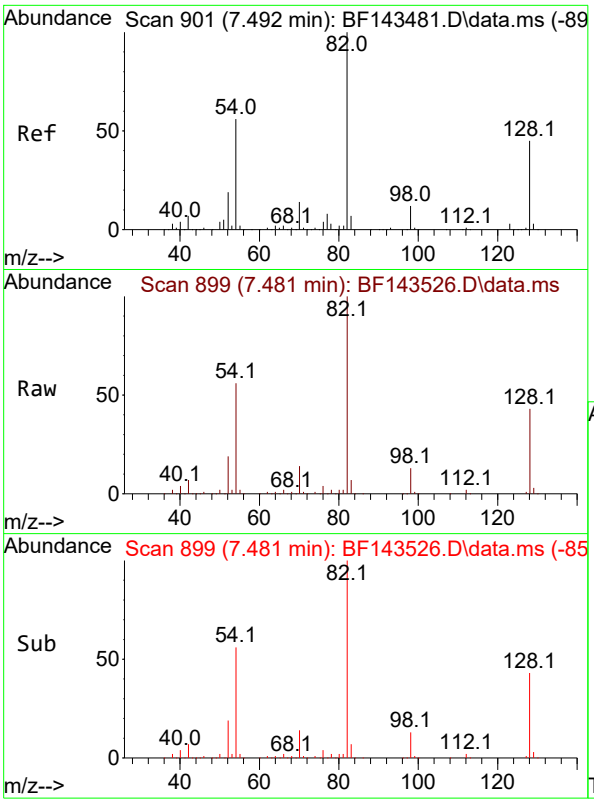


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.204 min Scan# 1022
Delta R.T. -0.006 min
Lab File: BF143526.D
Acq: 21 Aug 2025 13:15

Tgt Ion:136 Resp: 459647

Ion	Ratio	Lower	Upper
136	100		
137	11.2	9.0	13.4
54	9.3	7.4	11.2
68	6.0	5.0	7.4

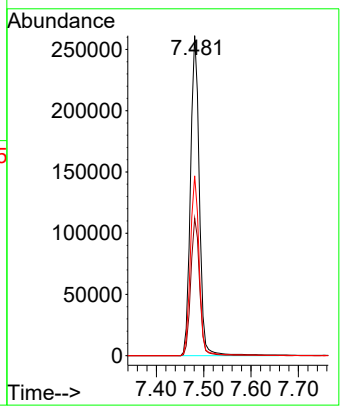




#23
Nitrobenzene-d5
Concen: 43.289 ng
RT: 7.481 min Scan# 8
Delta R.T. -0.018 min
Lab File: BF143526.D
Acq: 21 Aug 2025 13:15

Tgt Ion: 82 Resp: 34097

Ion	Ratio	Lower	Upper
82	100		
128	43.0	35.5	53.3
54	56.2	44.3	66.5



Instrument :
BNA_F
ClientSampleId :
11M-E

Manual Integrations
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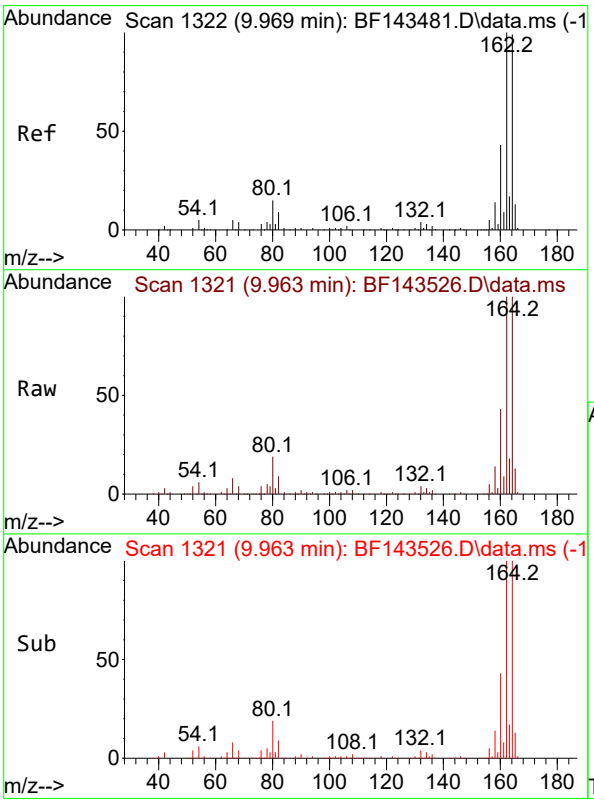
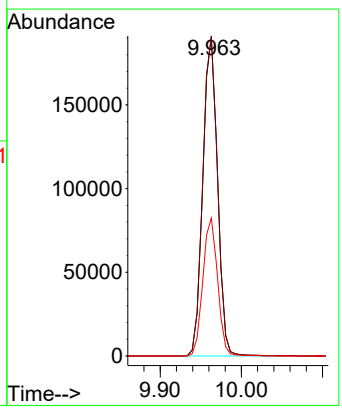
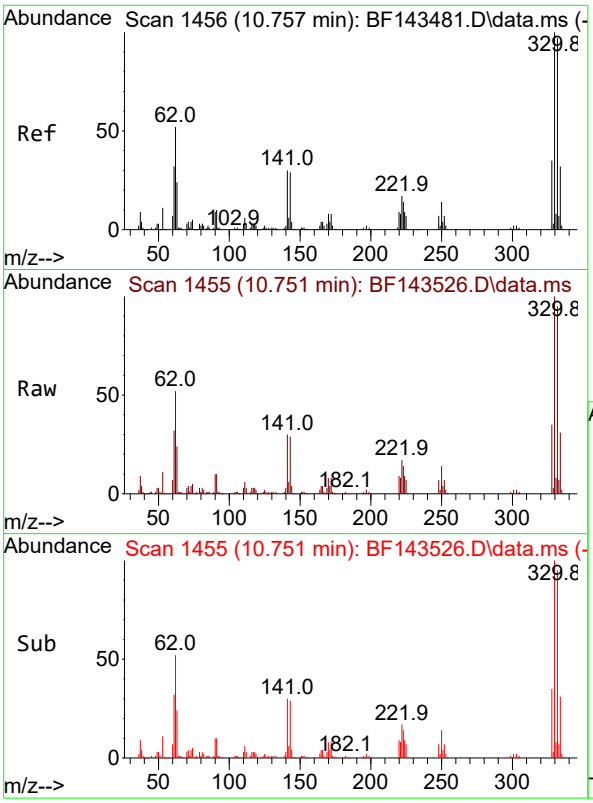


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.963 min Scan# 1321
Delta R.T. -0.006 min
Lab File: BF143526.D
Acq: 21 Aug 2025 13:15

Tgt Ion:164 Resp: 239052

Ion	Ratio	Lower	Upper
164	100		
162	100.5	80.5	120.7
160	43.3	34.3	51.5





#42
2,4,6-Tribromophenol
Concen: 99.962 ng
RT: 10.751 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF143526.D
Acq: 21 Aug 2025 13:15

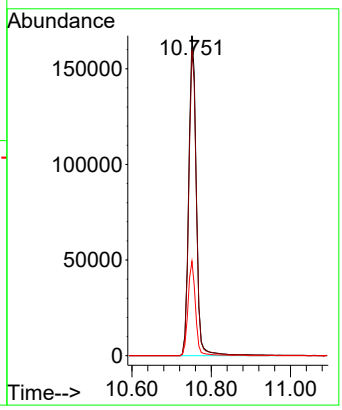
Tgt Ion:330 Resp: 22243

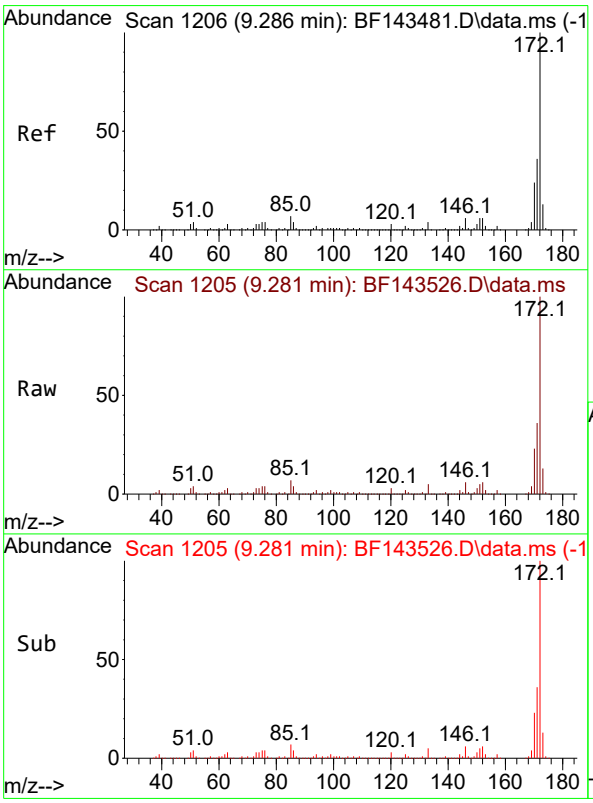
Ion	Ratio	Lower	Upper
330	100		
332	95.8	78.0	117.0
141	29.3	23.7	35.5

Instrument :
BNA_F
ClientSampleId :
11M-E

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 08/22/2025
Supervised By :mohammad ahmed 08/22/2025

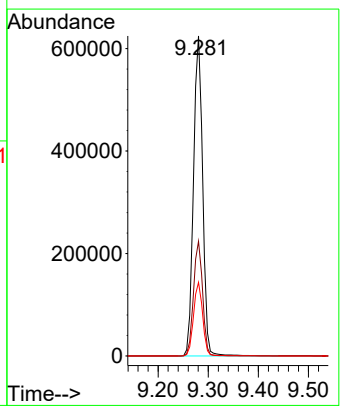


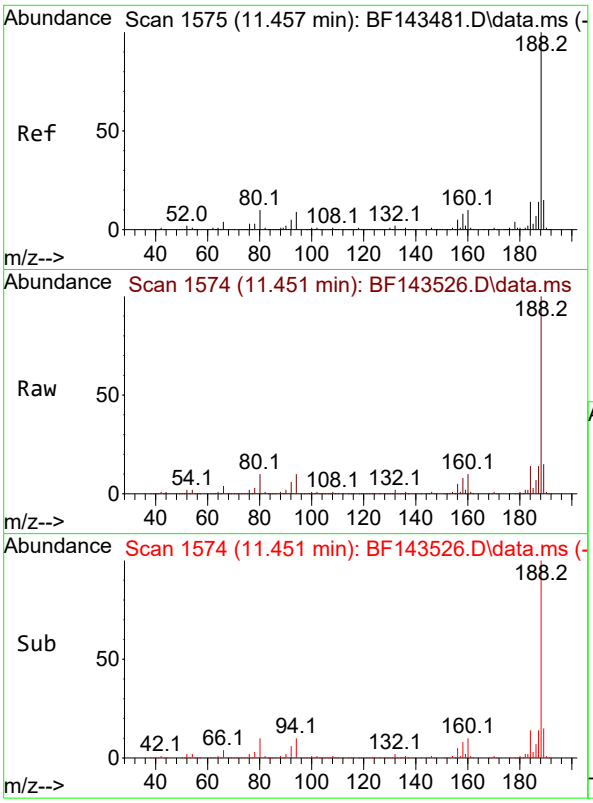


#45
2-Fluorobiphenyl
Concen: 54.667 ng
RT: 9.281 min Scan# 1205
Delta R.T. -0.006 min
Lab File: BF143526.D
Acq: 21 Aug 2025 13:15

Tgt Ion:172 Resp: 790732

Ion	Ratio	Lower	Upper
172	100		
171	35.9	28.8	43.2
170	23.0	18.8	28.2

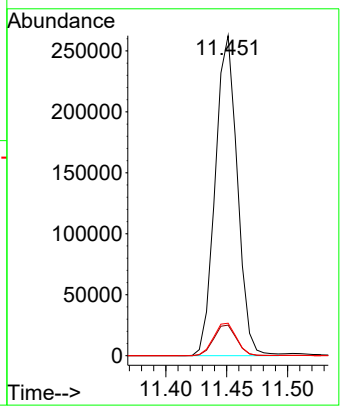




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.451 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143526.D
Acq: 21 Aug 2025 13:15

Tgt Ion:188 Resp: 33216

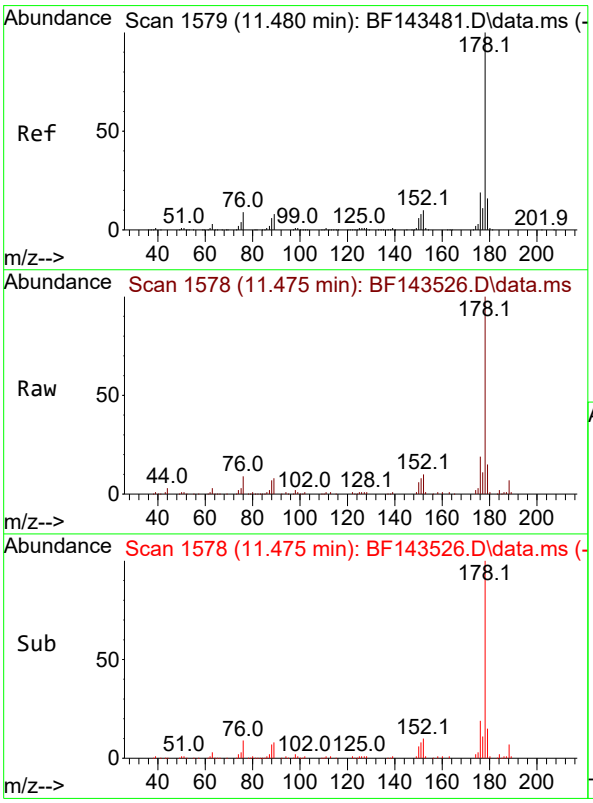
Ion	Ratio	Lower	Upper
188	100		
94	9.6	7.4	11.2
80	10.2	8.2	12.4



Instrument :
BNA_F
ClientSampleId :
11M-E

Manual Integrations
APPROVED

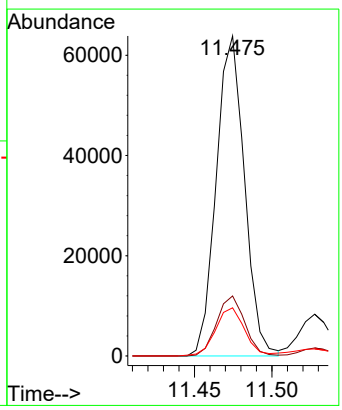
Reviewed By :Rahul Chavli 08/22/2025
Supervised By :mohammad ahmed 08/22/2025

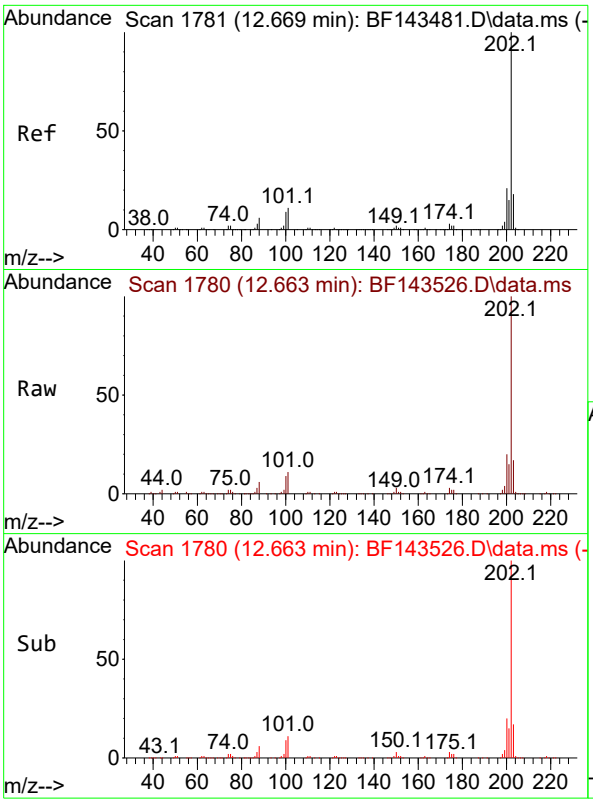


#71
Phenanthrene
Concen: 4.546 ng
RT: 11.475 min Scan# 1578
Delta R.T. -0.006 min
Lab File: BF143526.D
Acq: 21 Aug 2025 13:15

Tgt Ion:178 Resp: 80869

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.5	23.3
179	15.1	12.5	18.7

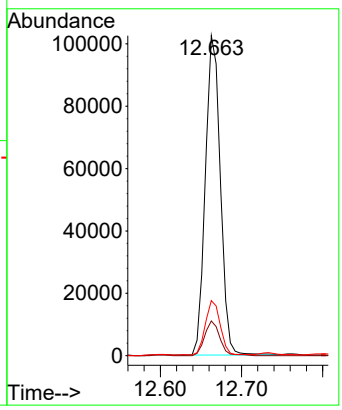




#75
Fluoranthene
Concen: 8.222 ng
RT: 12.663 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF143526.D
Acq: 21 Aug 2025 13:15

Tgt Ion:202 Resp: 13123

Ion	Ratio	Lower	Upper
202	100		
101	10.9	0.0	31.3
203	17.2	0.0	37.9



Instrument :
BNA_F
ClientSampleId :
11M-E

Manual Integrations
APPROVED

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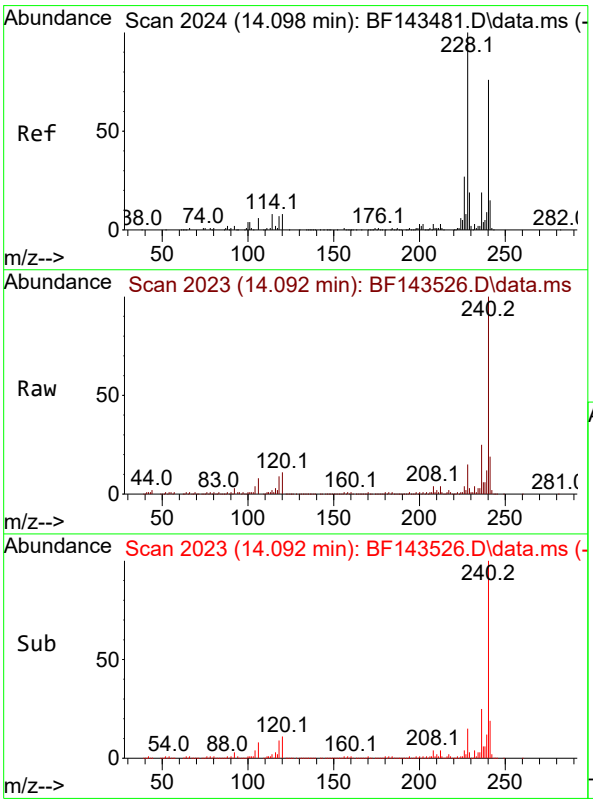
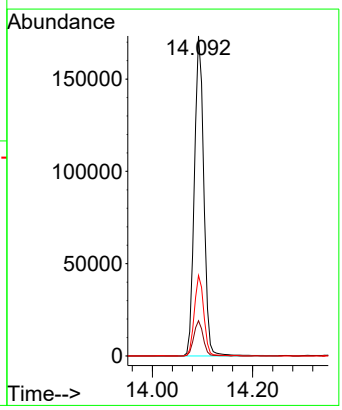
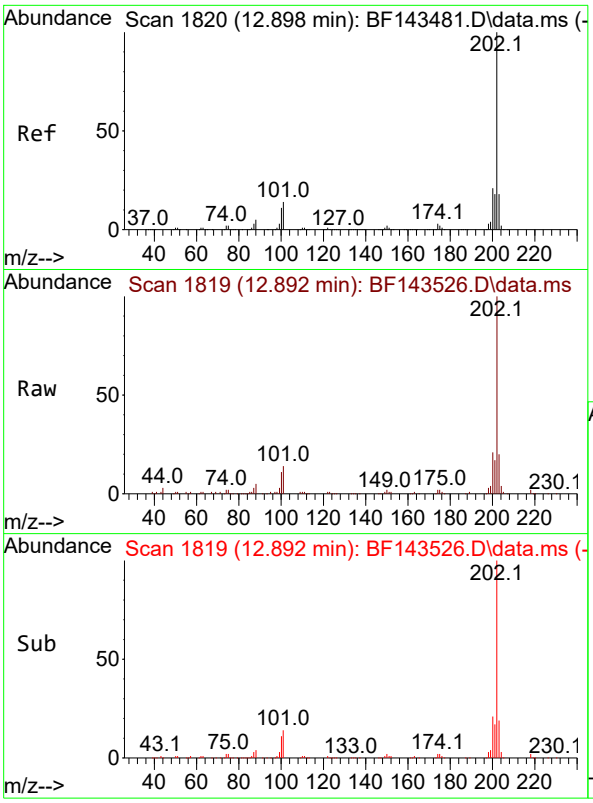


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.092 min Scan# 2023
Delta R.T. -0.012 min
Lab File: BF143526.D
Acq: 21 Aug 2025 13:15

Tgt Ion:240 Resp: 225807

Ion	Ratio	Lower	Upper
240	100		
120	11.0	8.6	12.8
236	25.1	20.4	30.6

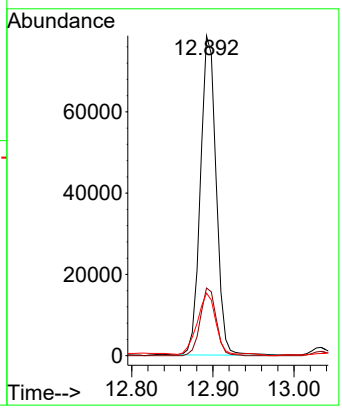




#78
Pyrene
Concen: 5.697 ng
RT: 12.892 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF143526.D
Acq: 21 Aug 2025 13:15

Tgt Ion:202 Resp: 10580

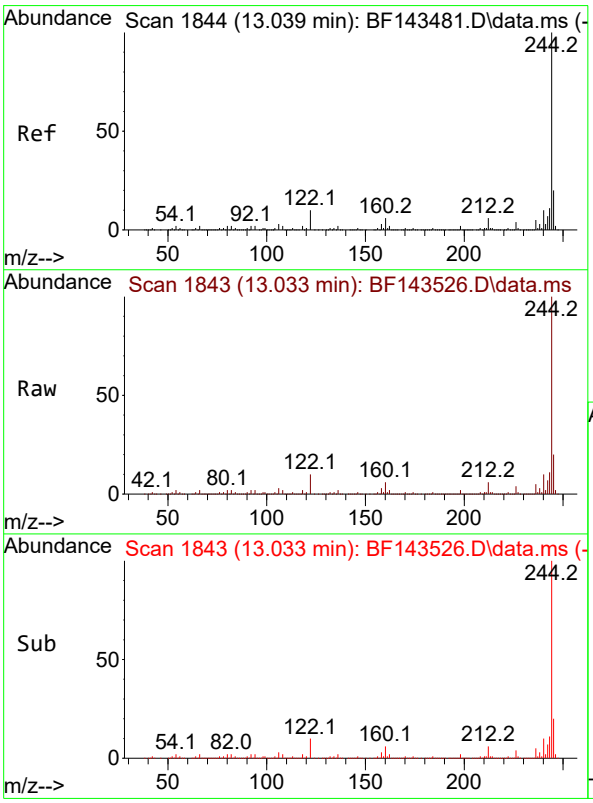
Ion	Ratio	Lower	Upper
202	100		
200	21.1	17.0	25.4
203	19.6	14.3	21.5



Instrument :
BNA_F
ClientSampleId :
11M-E

Manual Integrations
APPROVED

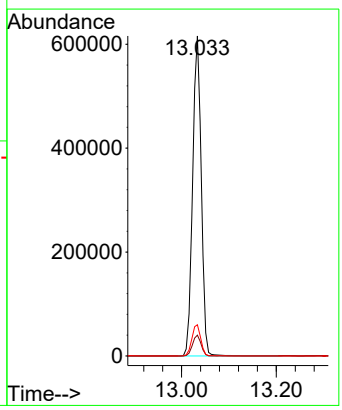
Reviewed By :Rahul Chavli 08/22/2025
Supervised By :mohammad ahmed 08/22/2025

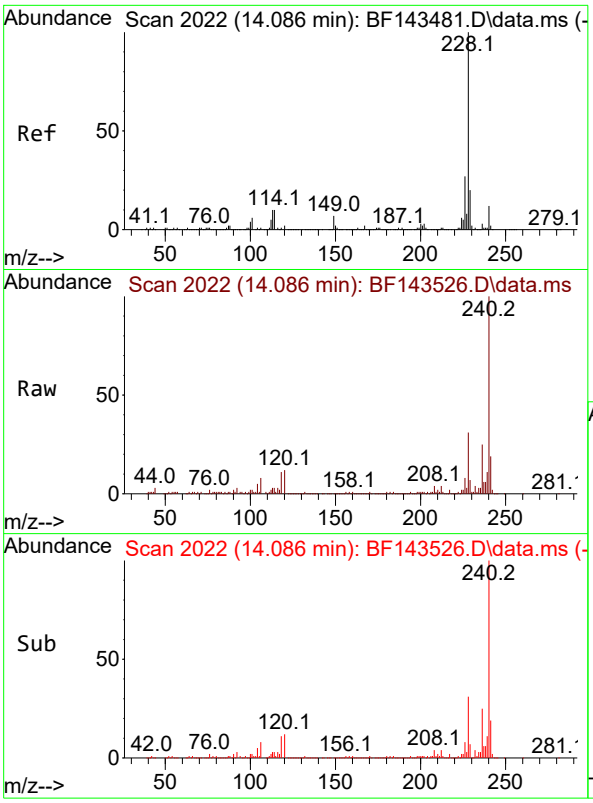


#79
Terphenyl-d14
Concen: 60.241 ng
RT: 13.033 min Scan# 1843
Delta R.T. -0.006 min
Lab File: BF143526.D
Acq: 21 Aug 2025 13:15

Tgt Ion:244 Resp: 779515

Ion	Ratio	Lower	Upper
244	100		
212	6.5	5.2	7.8
122	9.8	7.9	11.9

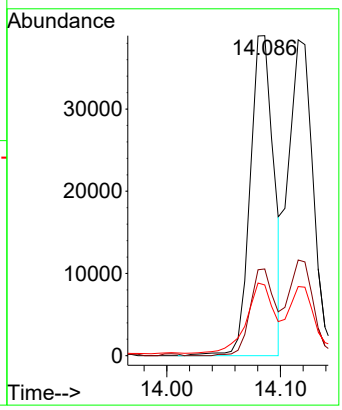




#81
Benzo(a)anthracene
Concen: 3.856 ng
RT: 14.086 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF143526.D
Acq: 21 Aug 2025 13:15

Tgt Ion:228 Resp: 5605

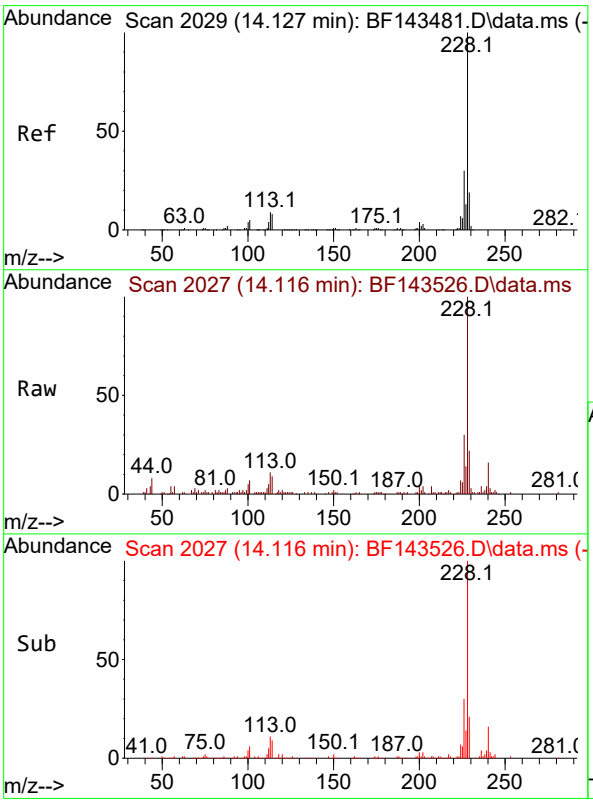
Ion	Ratio	Lower	Upper
228	100		
226	27.1	21.7	32.5
229	22.1	15.7	23.5



Instrument :
BNA_F
ClientSampleId :
11M-E

Manual Integrations
APPROVED

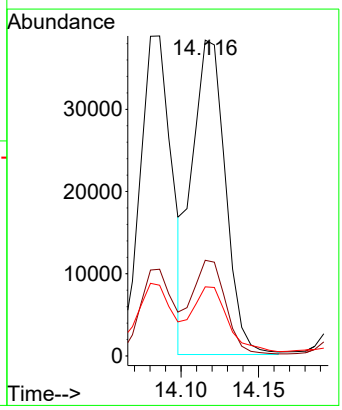
Reviewed By :Rahul Chavli 08/22/2025
Supervised By :mohammad ahmed 08/22/2025

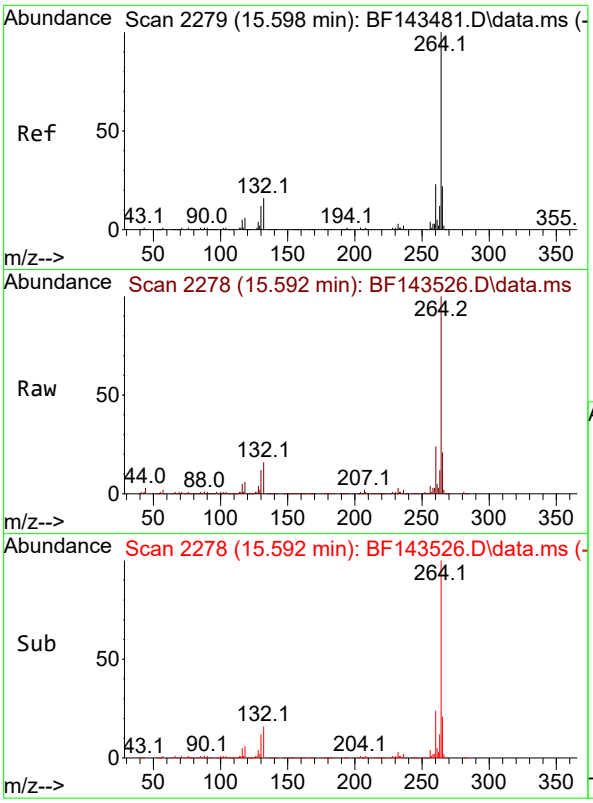


#83
Chrysene
Concen: 4.378 ng
RT: 14.116 min Scan# 2027
Delta R.T. -0.012 min
Lab File: BF143526.D
Acq: 21 Aug 2025 13:15

Tgt Ion:228 Resp: 57195

Ion	Ratio	Lower	Upper
228	100		
226	30.3	23.7	35.5
229	21.9	15.7	23.5

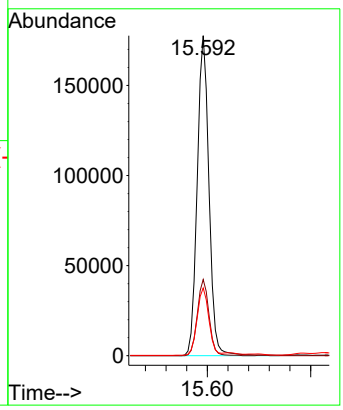




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.592 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF143526.D
Acq: 21 Aug 2025 13:15

Tgt Ion:264 Resp: 28021

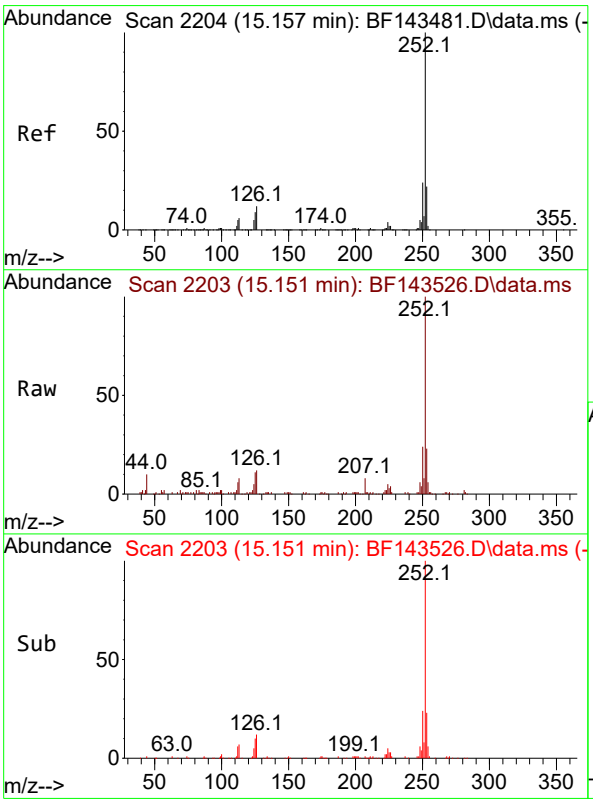
Ion	Ratio	Lower	Upper
264	100		
260	23.8	18.7	28.1
265	21.2	17.6	26.4



Instrument :
BNA_F
ClientSampleId :
11M-E

Manual Integrations
APPROVED

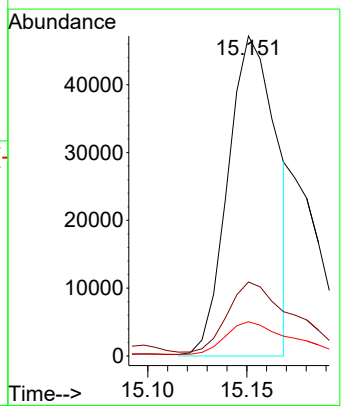
Reviewed By :Rahul Chavli 08/22/2025
Supervised By :mohammad ahmed 08/22/2025

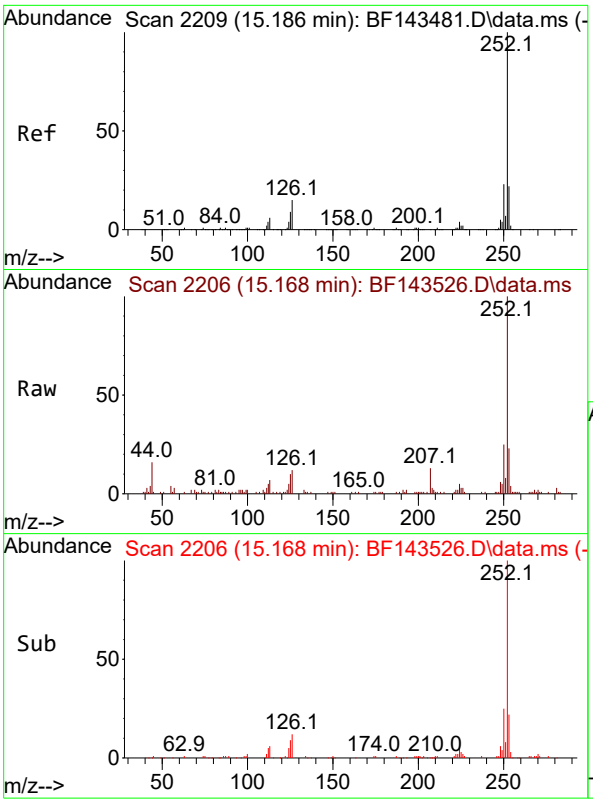


#88
Benzo(b)fluoranthene
Concen: 5.178 ng m
RT: 15.151 min Scan# 2203
Delta R.T. -0.006 min
Lab File: BF143526.D
Acq: 21 Aug 2025 13:15

Tgt Ion:252 Resp: 80646

Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.5	26.3
125	10.7	7.4	11.0

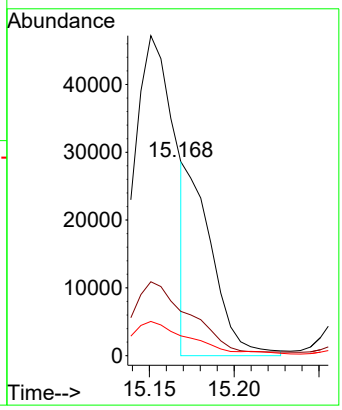




#89
Benzo(k)fluoranthene
Concen: 2.026 ng m
RT: 15.168 min Scan# 2
Delta R.T. -0.023 min
Lab File: BF143526.D
Acq: 21 Aug 2025 13:15

Tgt Ion:252 Resp: 3020

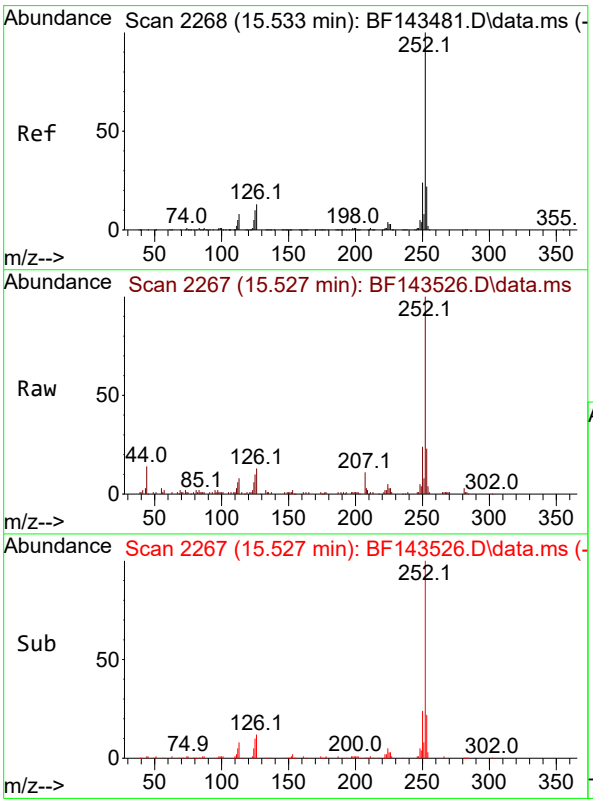
Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.4	26.2
125	10.2	7.4	11.0



Instrument :
BNA_F
ClientSampleId :
11M-E

Manual Integrations
APPROVED

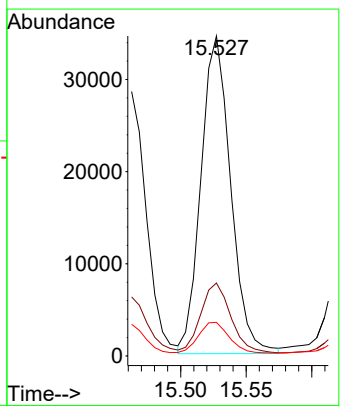
Reviewed By :Rahul Chavli 08/22/2025
Supervised By :mohammad ahmed 08/22/2025

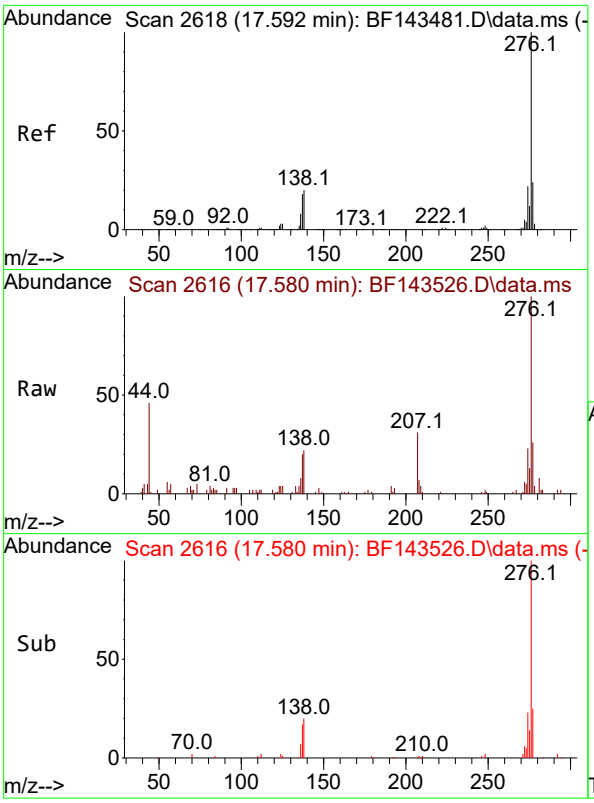


#90
Benzo(a)pyrene
Concen: 3.763 ng
RT: 15.527 min Scan# 2267
Delta R.T. -0.012 min
Lab File: BF143526.D
Acq: 21 Aug 2025 13:15

Tgt Ion:252 Resp: 54410

Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.4	26.0
125	10.5	8.2	12.2

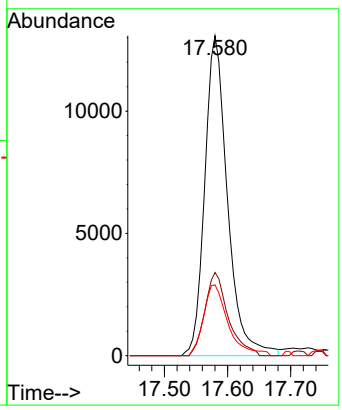




#92
Benzo(g,h,i)perylene
Concen: 2.038 ng
RT: 17.580 min Scan# 2
Delta R.T. -0.023 min
Lab File: BF143526.D
Acq: 21 Aug 2025 13:15

Tgt Ion:276 Resp: 3268

Ion	Ratio	Lower	Upper
276	100		
277	26.0	18.9	28.3
138	22.1	16.3	24.5



Instrument :
BNA_F
ClientSampleId :
11M-E

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 08/22/2025
Supervised By :mohammad ahmed 08/22/2025

Sample Results: **BF143526.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
Data File : BF143526.D
Acq On : 21 Aug 2025 13:15
Operator : RC/JU
Sample : Q2819-08
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
11M-E

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-BF082025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF143526.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.263	5	12	21	rVB	293895	460051	20.18%	2.352%
2	5.151	498	503	515	rBV	175846	256776	11.26%	1.313%
3	5.563	567	573	595	rBV	1105965	1519041	66.63%	7.766%
4	6.557	736	742	766	rBV	1254058	1659948	72.81%	8.487%
5	6.922	799	804	820	rVB	559672	724780	31.79%	3.706%
6	7.481	894	899	911	rBV	783130	1009644	44.29%	5.162%
7	8.204	1017	1022	1042	rBV	713313	930844	40.83%	4.759%
8	9.281	1199	1205	1215	rBV	1813404	2279734	100.00%	11.656%
9	9.598	1254	1259	1268	rBV2	68362	118432	5.19%	0.606%
10	9.675	1268	1272	1276	rVB	25068	29921	1.31%	0.153%
11	9.963	1315	1321	1332	rBV	797886	1018428	44.67%	5.207%
12	10.363	1384	1389	1397	rVB4	27775	38913	1.71%	0.199%
13	10.669	1437	1441	1447	rVB	209077	264676	11.61%	1.353%
14	10.751	1450	1455	1461	rVV	1254697	1612946	70.75%	8.246%
15	10.804	1461	1464	1472	rVB	31619	47840	2.10%	0.245%
16	10.981	1490	1494	1501	rVB	36985	46814	2.05%	0.239%
17	11.451	1568	1574	1583	rBV2	651902	1023667	44.90%	5.234%
18	11.528	1583	1587	1591	rVB	18513	25277	1.11%	0.129%
19	11.980	1654	1664	1670	rBV2	38829	89576	3.93%	0.458%
20	12.069	1674	1679	1687	rVB2	32536	63934	2.80%	0.327%
21	12.663	1775	1780	1784	rBV	234190	313358	13.75%	1.602%
22	12.692	1784	1785	1790	rVB	59999	60173	2.64%	0.308%
23	12.851	1808	1812	1815	rBV	118192	153719	6.74%	0.786%
24	12.892	1815	1819	1824	rVB	171908	241965	10.61%	1.237%
25	13.033	1837	1843	1850	rBV	1613515	2071674	90.87%	10.592%
26	13.110	1851	1856	1864	rVB4	14031	28760	1.26%	0.147%
27	13.222	1868	1875	1879	rBV	27172	48470	2.13%	0.248%
28	13.416	1904	1908	1912	rVB2	33127	39801	1.75%	0.203%
29	13.469	1912	1917	1927	rBV2	91412	163826	7.19%	0.838%
30	13.557	1927	1932	1936	rVB	80987	105676	4.64%	0.540%
31	13.722	1954	1960	1966	rBV2	36097	75010	3.29%	0.384%
32	13.845	1976	1981	1983	rBV3	18746	29401	1.29%	0.150%
33	13.980	2001	2004	2014	rVB5	17453	45159	1.98%	0.231%
34	14.092	2015	2023	2035	rVB2	533962	938830	41.18%	4.800%
35	14.551	2098	2101	2107	rVB3	22334	29063	1.27%	0.149%
36	14.610	2108	2111	2118	rBV7	19344	42410	1.86%	0.217%

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
Data File : BF143526.D
Acq On : 21 Aug 2025 13:15
Operator : RC/JU
Sample : Q2819-08
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
11M-E

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-BF082025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

37	14.863	2151	2154	2160	rVB	17658	24328	1.07%	0.124%
38	15.016	2177	2180	2184	rVB2	24478	30302	1.33%	0.155%
39	15.151	2198	2203	2210	rBV	122317	276544	12.13%	1.414%
40	15.210	2210	2213	2219	rVB2	57964	86422	3.79%	0.442%
41	15.463	2251	2256	2262	rVB	71426	110881	4.86%	0.567%
42	15.527	2262	2267	2272	rBV	85780	133145	5.84%	0.681%
43	15.592	2272	2278	2293	rVB	480639	813096	35.67%	4.157%
44	15.816	2313	2316	2324	rVB7	16814	31352	1.38%	0.160%
45	16.051	2351	2356	2363	rBV	47358	88014	3.86%	0.450%
46	17.115	2532	2537	2545	rBV2	42380	87979	3.86%	0.450%
47	17.286	2561	2566	2576	rBV5	36210	77420	3.40%	0.396%
48	17.468	2592	2597	2605	rVB6	20317	49643	2.18%	0.254%
49	17.580	2610	2616	2624	rVB	29160	66914	2.94%	0.342%
50	17.798	2648	2653	2663	rBV7	27144	74648	3.27%	0.382%

Sum of corrected areas: 19559225

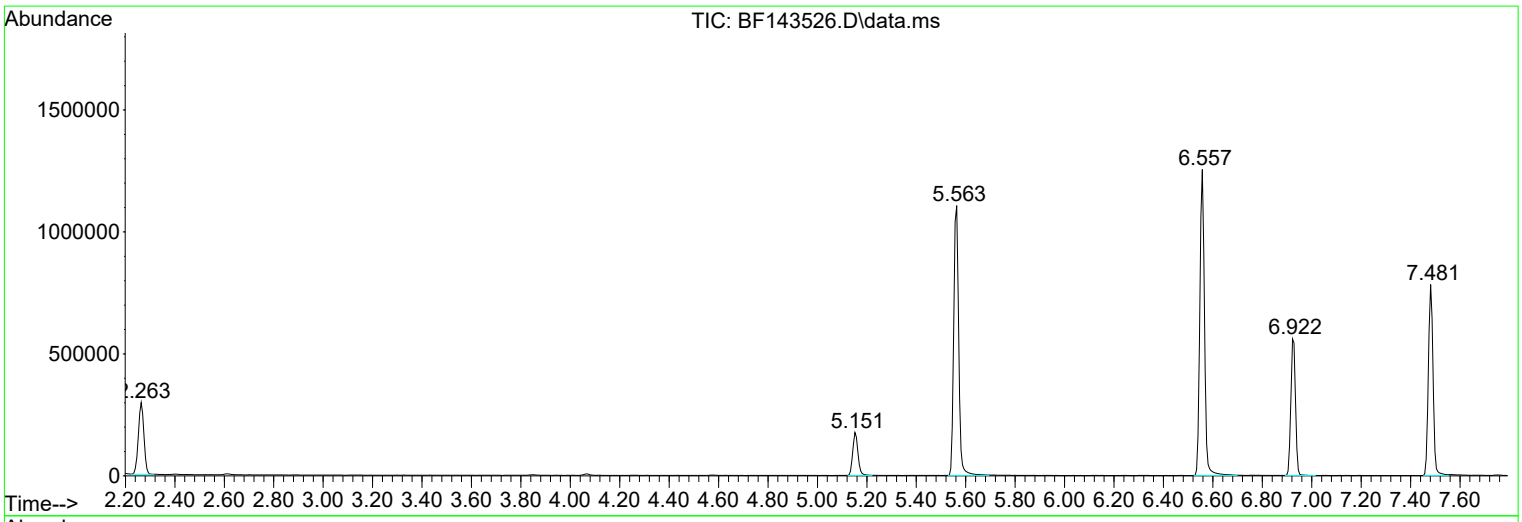
Sample Results: **BF143526.D**

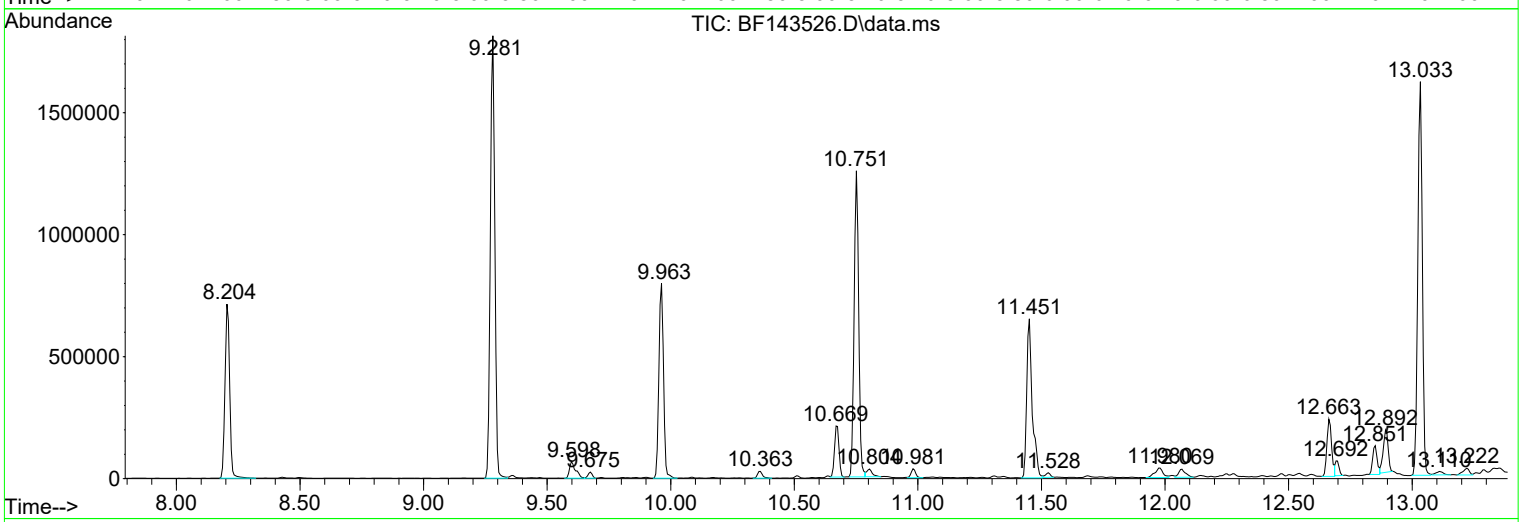
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
Data File : BF143526.D
Acq On : 21 Aug 2025 13:15
Operator : RC/JU
Sample : Q2819-08
Misc :
ALS Vial : 10 Sample Multiplier: 1

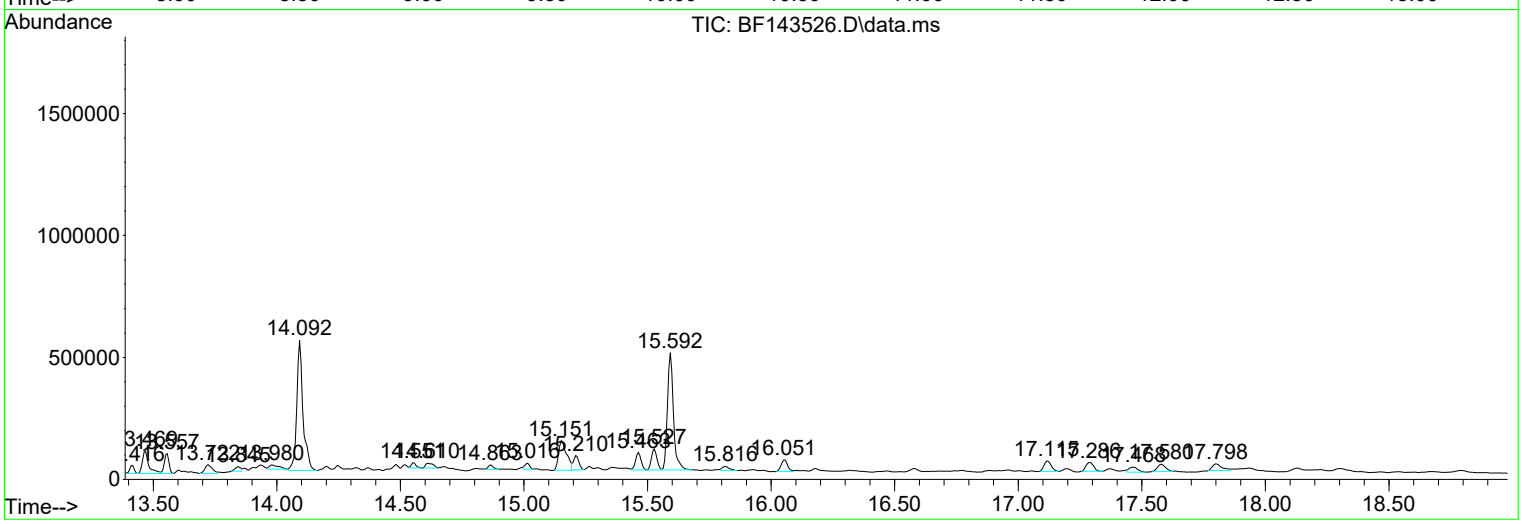
Instrument :
BNA_F
ClientSampleId :
11M-E

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.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\BF082125\
Data File : BF143526.D
Acq On : 21 Aug 2025 13:15
Operator : RC/JU
Sample : Q2819-08
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
11M-E

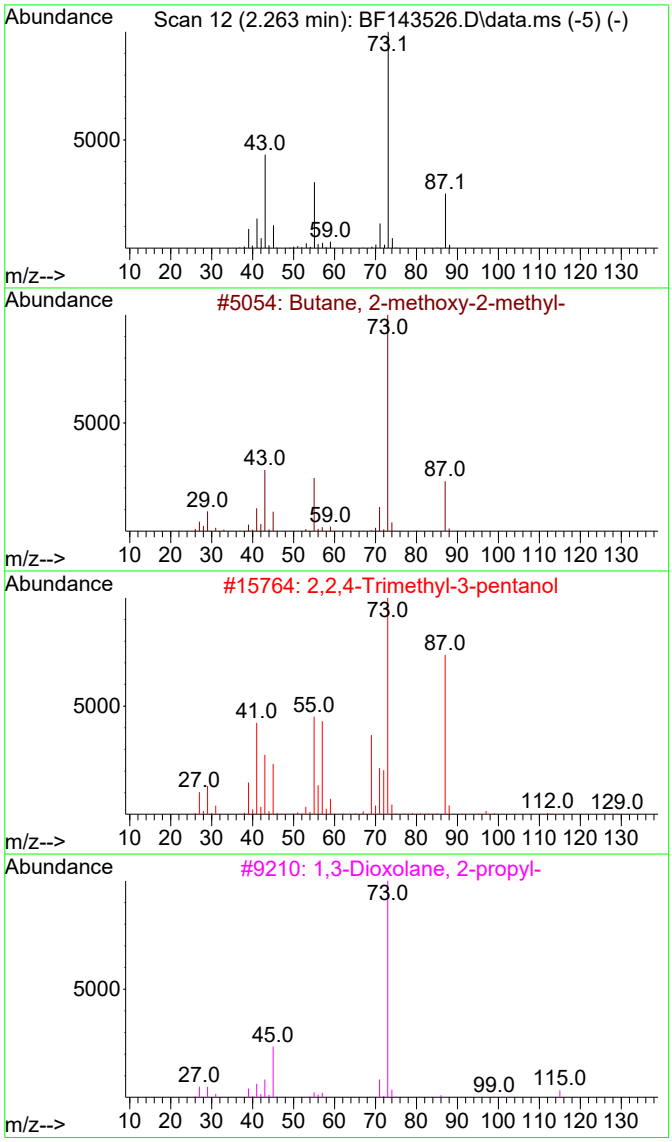
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

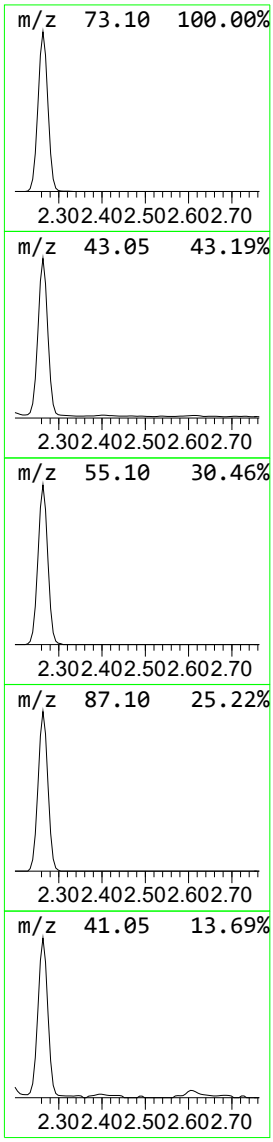
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.263	12.69 ng	460051	1,4-Dichlorobenzene-d4	6.928

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	1,3-Dioxolane, 2-propyl-	116	C6H12O2	003390-13-4	23
4	Octanal, 7-methoxy-3,7-dimethyl-	186	C11H22O2	003613-30-7	17
5	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	12





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
Data File : BF143526.D
Acq On : 21 Aug 2025 13:15
Operator : RC/JU
Sample : Q2819-08
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
11M-E

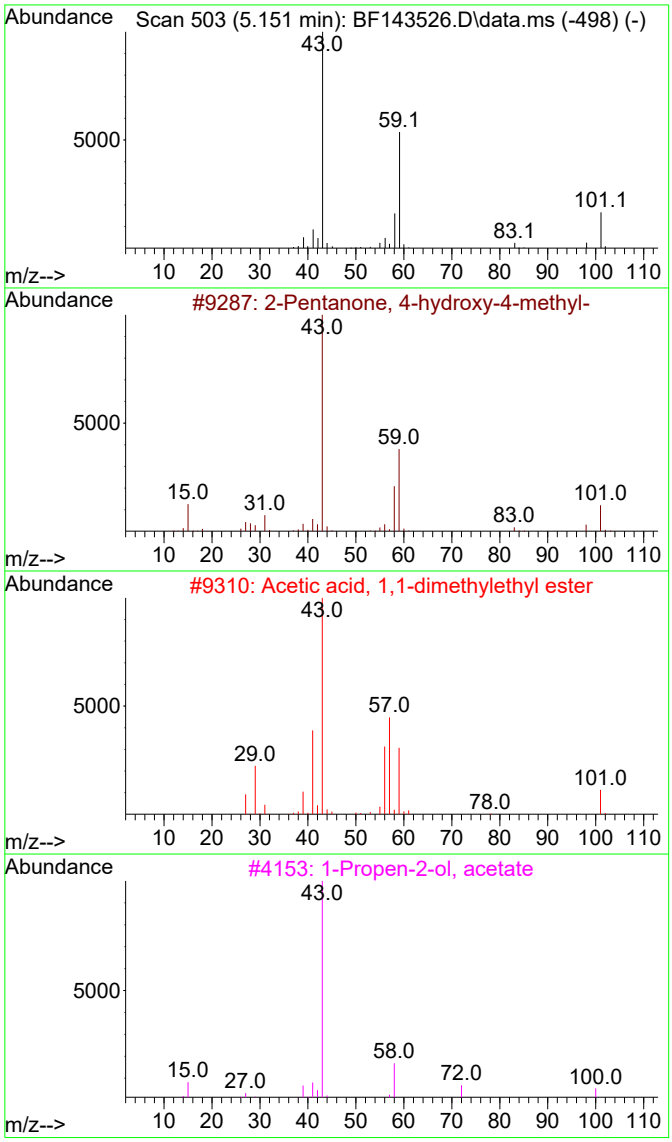
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

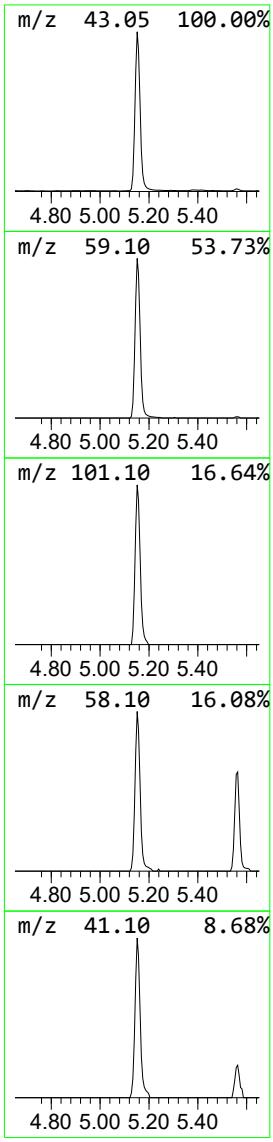
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.151	7.09 ng	256776	1,4-Dichlorobenzene-d4	6.928

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	59
2	Acetic acid, 1,1-dimethylethyl e...	116	C6H12O2	000540-88-5	28
3	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	12
4	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	10
5	2-Propanone, 1-(1-methylethoxy)-	116	C6H12O2	042781-12-4	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
Data File : BF143526.D
Acq On : 21 Aug 2025 13:15
Operator : RC/JU
Sample : Q2819-08
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
11M-E

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

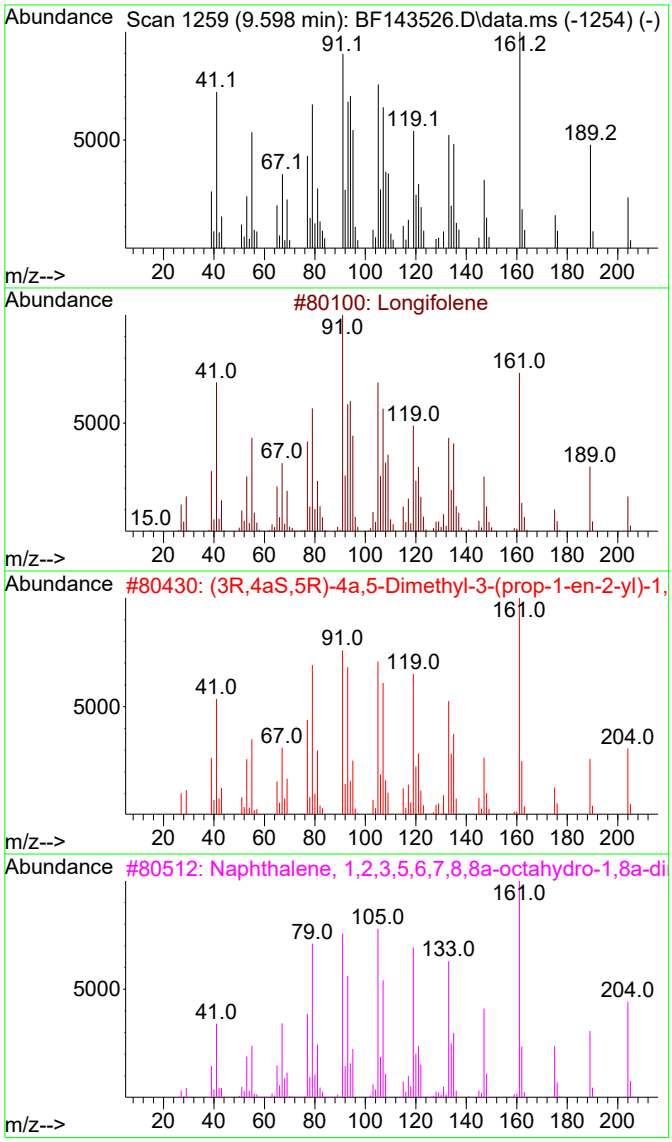
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

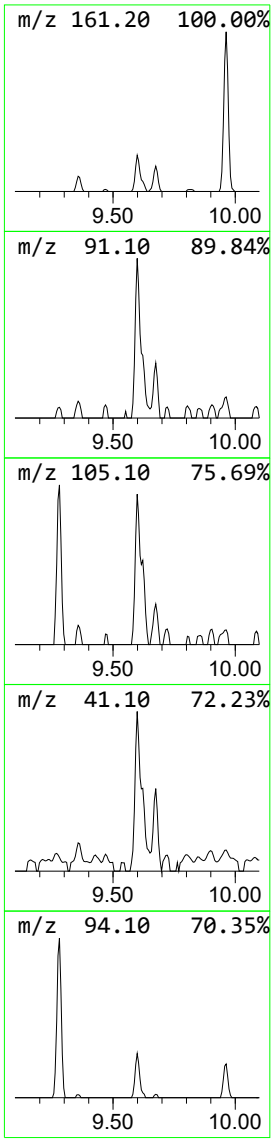
****

Peak Number 3 Longifolene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.598	2.33 ng	118432	Acenaphthene-d10	9.963

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Longifolene	204	C15H24	000475-20-7	99
2	(3R,4aS,5R)-4a,5-Dimethyl-3-(pro...	204	C15H24	024741-64-8	97
3	Naphthalene, 1,2,3,5,6,7,8,8a-oc...	204	C15H24	004630-07-3	92
4	1H-Cyclopropa[a]naphthalene, dec...	204	C15H24	020071-49-2	92
5	Azulene, 1,2,3,5,6,7,8,8a-octahy...	204	C15H24	003691-11-0	91





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
Data File : BF143526.D
Acq On : 21 Aug 2025 13:15
Operator : RC/JU
Sample : Q2819-08
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
11M-E

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

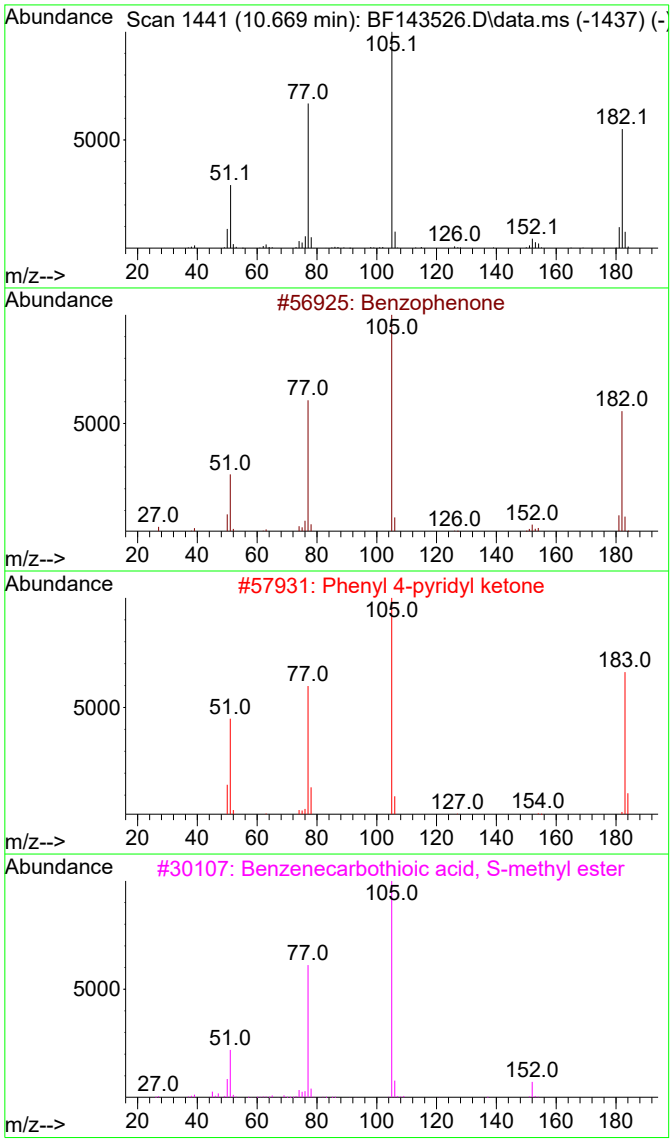
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

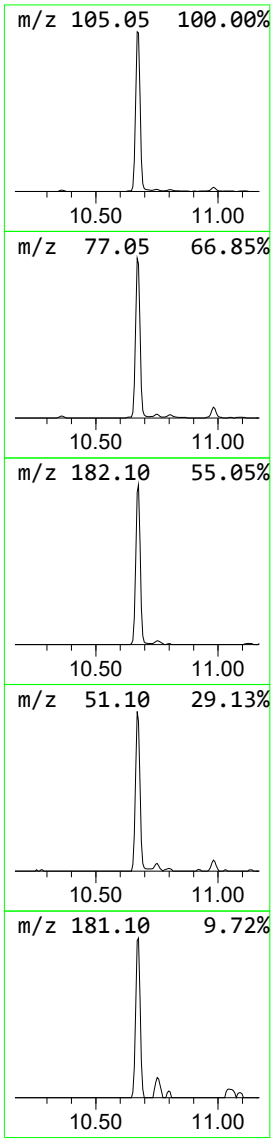
****

Peak Number 4 Benzophenone Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.669	5.20 ng	264676	Acenaphthene-d10	9.963

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	Phenyl 4-pyridyl ketone	183	C12H9NO	014548-46-0	49
3	Benzenecarbothioic acid, S-methy...	152	C8H8OS	005925-68-8	49
4	Pentafluoroethyl phenyl ketone	224	C9H5F5O	000394-52-5	47
5	Benzenebutanoic acid, .gamma.-oxo-	178	C10H10O3	002051-95-8	47





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Data File : BF143526.D
Acq On : 21 Aug 2025 13:15
Operator : RC/JU
Sample : Q2819-08
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
11M-E

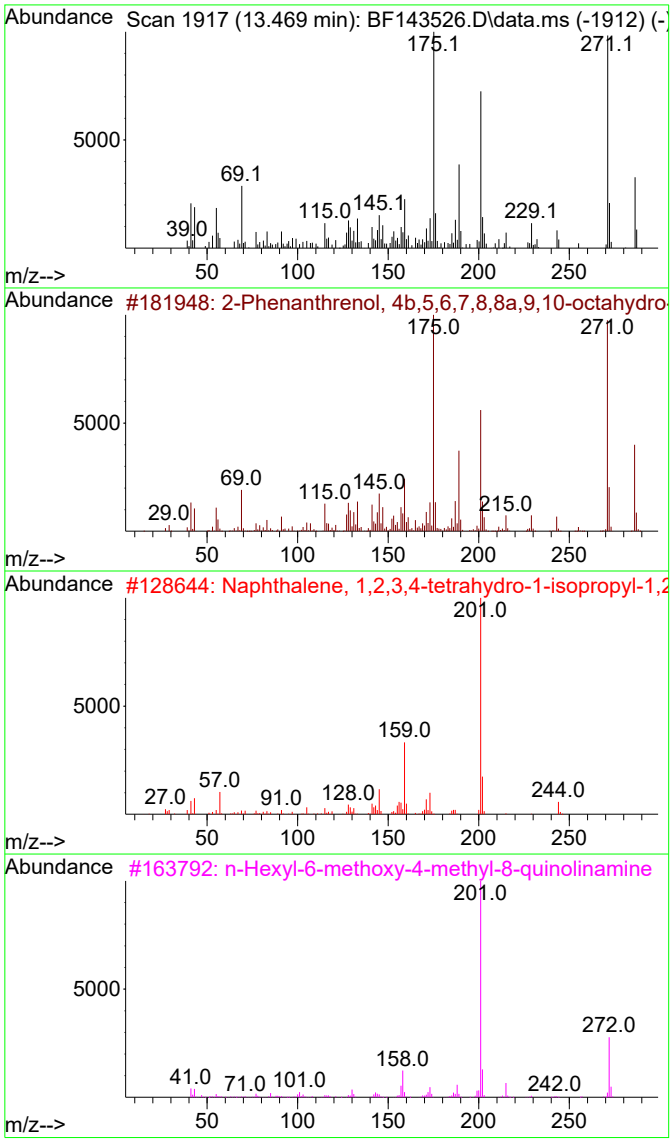
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

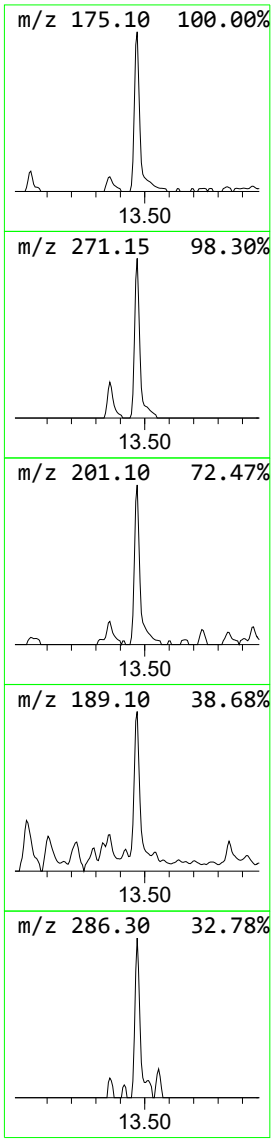
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 5 2-Phenanthrenol, 4b,5,6,7,8... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.469	3.49 ng	163826	Chrysene-d12	14.092

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Phenanthrenol, 4b,5,6,7,8,8a,9...	286	C20H30O	000511-15-9	99
2	Naphthalene, 1,2,3,4-tetrahydro-...	244	C18H28	029577-17-1	44
3	n-Hexyl-6-methoxy-4-methyl-8-qui...	272	C17H24N2O	083547-16-4	25
4	Crinan-1-one	271	C16H17NO3	098301-98-5	22
5	6H-dibenzo[b,d]pyran-6,9(8H)-dio...	271	C16H17NO3	1000397-00-0	18





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
Data File : BF143526.D
Acq On : 21 Aug 2025 13:15
Operator : RC/JU
Sample : Q2819-08
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
11M-E

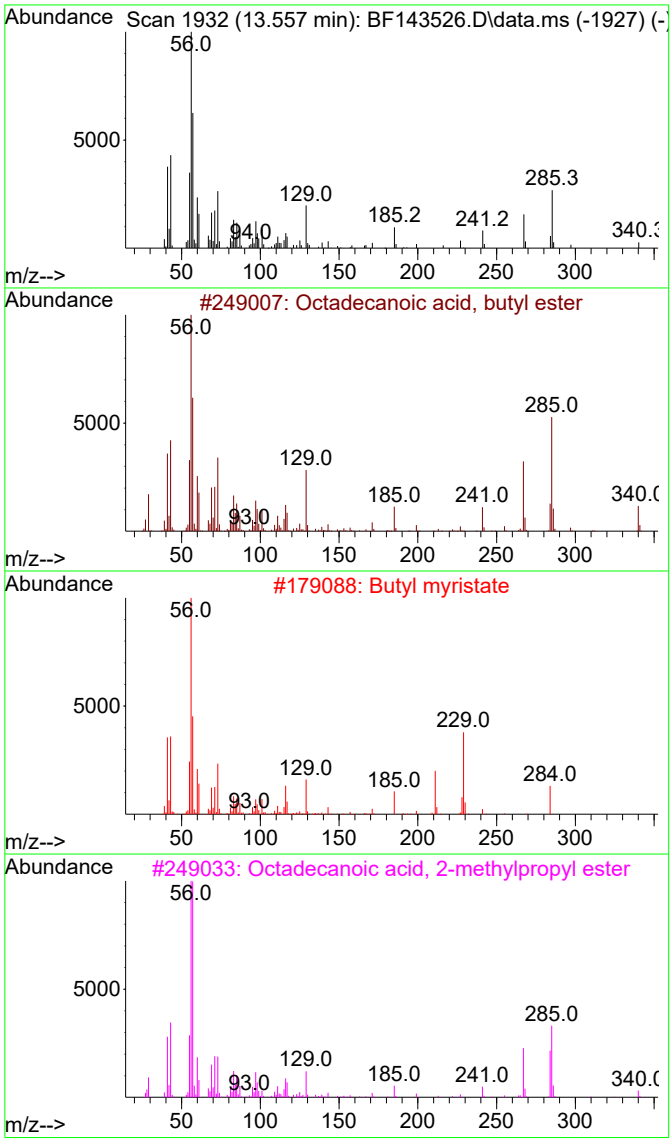
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

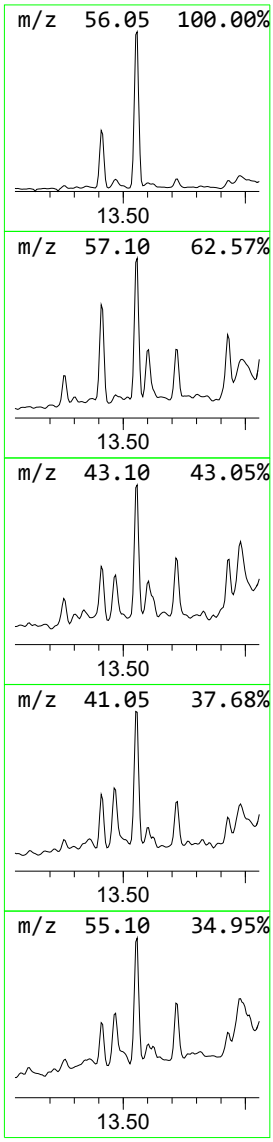
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 6 Octadecanoic acid, butyl ester Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.557	2.25 ng	105676	Chrysene-d12	14.092

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanoic acid, butyl ester	340	C22H44O2	000123-95-5	91
2	Butyl myristate	284	C18H36O2	000110-36-1	64
3	Octadecanoic acid, 2-methylpropy...	340	C22H44O2	000646-13-9	46
4	1-Hexene, 2-methyl-	98	C7H14	006094-02-6	27
5	1-Hexene, 2,5-dimethyl-	112	C8H16	006975-92-4	27





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
Data File : BF143526.D
Acq On : 21 Aug 2025 13:15
Operator : RC/JU
Sample : Q2819-08
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
11M-E

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.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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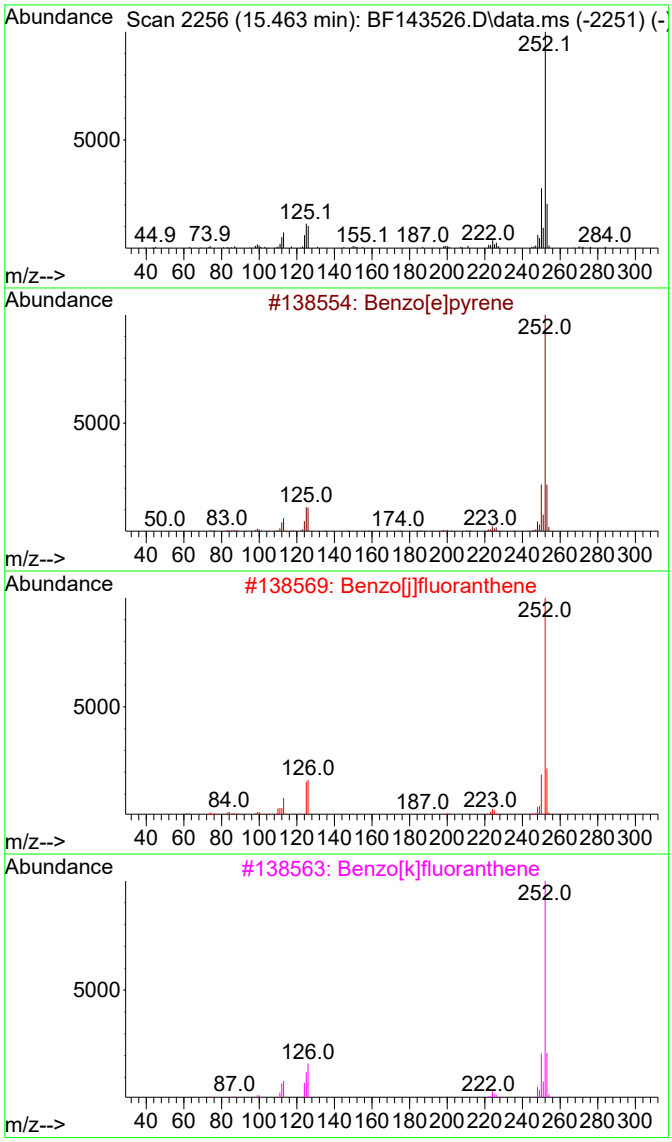
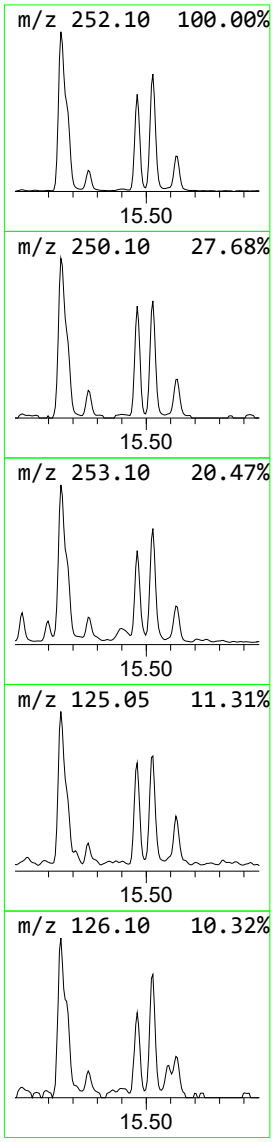
Peak Number 7 Benzo[e]pyrene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.463	2.73 ng	110881	Perylene-d12	15.592

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	94
2	Benzo[j]fluoranthene	252	C20H12	000205-82-3	93
3	Benzo[k]fluoranthene	252	C20H12	000207-08-9	93
4	Benzo[a]pyrene	252	C20H12	000050-32-8	91
5	Benzo[b]fluoranthene	252	C20H12	000205-99-2	90





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
Data File : BF143526.D
Acq On : 21 Aug 2025 13:15
Operator : RC/JU
Sample : Q2819-08
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
11M-E

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.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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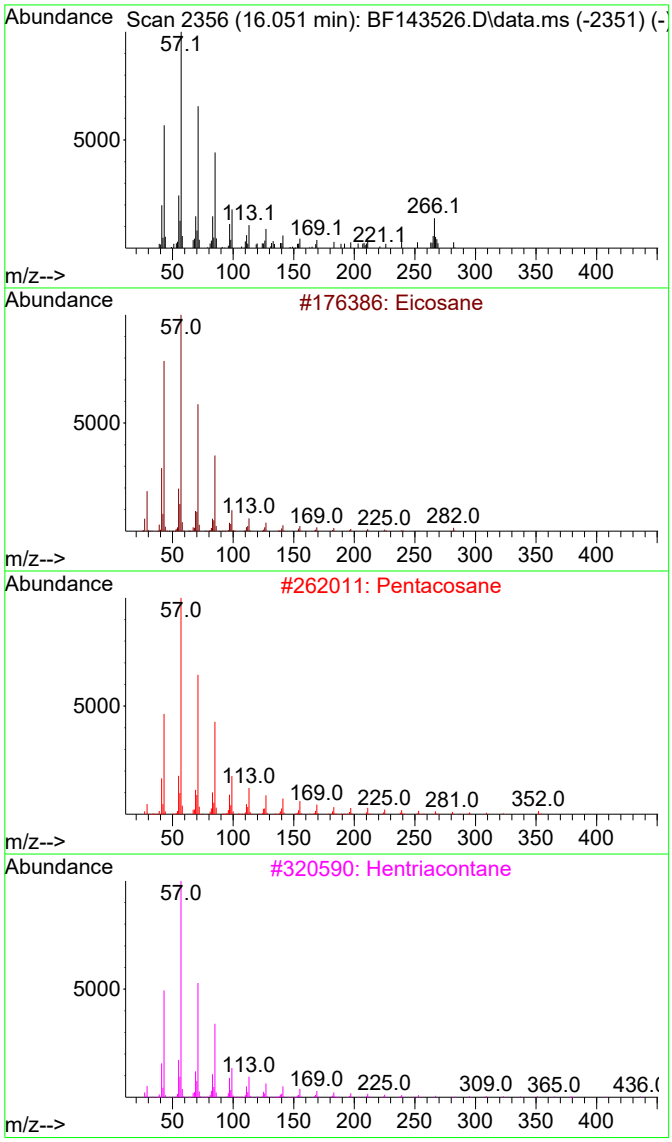
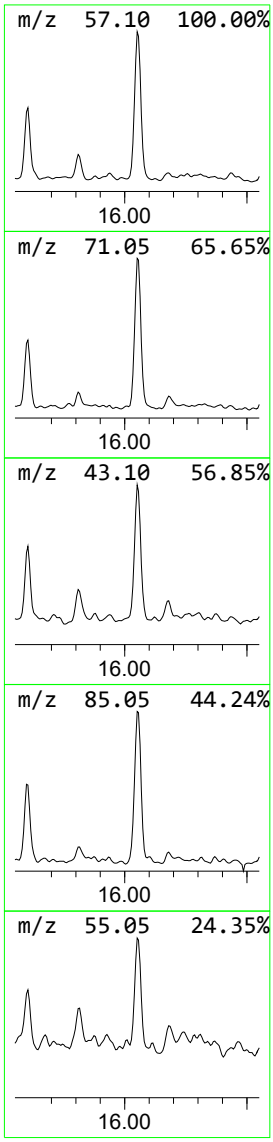
Peak Number 8 Eicosane Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.051	2.16 ng	88014	Perylene-d12	15.592

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Eicosane	282	C20H42	000112-95-8	95
2	Pentacosane	352	C25H52	000629-99-2	87
3	Hentriacontane	437	C31H64	000630-04-6	87
4	Tetratetracontane	619	C44H90	007098-22-8	87
5	Pentadecane, 7-(bromomethyl)-	304	C16H33Br	052997-43-0	83





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
Data File : BF143526.D
Acq On : 21 Aug 2025 13:15
Operator : RC/JU
Sample : Q2819-08
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
11M-E

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.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...	2.263	12.7	ng	460051	1	6.928	724780	20.0
2-Pentanone, 4-...	5.151	7.1	ng	256776	1	6.928	724780	20.0
Longifolene	9.598	2.3	ng	118432	3	9.963	1018430	20.0
Benzophenone	10.669	5.2	ng	264676	3	9.963	1018430	20.0
2-Phenanthrenol...	13.469	3.5	ng	163826	5	14.092	938830	20.0
Octadecanoic ac...	13.557	2.3	ng	105676	5	14.092	938830	20.0
Benzo[e]pyrene	15.463	2.7	ng	110881	6	15.592	813096	20.0
Eicosane	16.051	2.2	ng	88014	6	15.592	813096	20.0

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	84SB-E	SDG No.:	Q2819
Lab Sample ID:	Q2819-09	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	37.6
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP025518.D	1	08/14/25 08:40	08/20/25 22:32	PB169242

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
100-52-7	Benzaldehyde	720	U	410	720	880	ug/Kg
108-95-2	Phenol	340	U	58.6	340	450	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	340	U	64.4	340	450	ug/Kg
95-57-8	2-Chlorophenol	340	U	64.7	340	450	ug/Kg
95-48-7	2-Methylphenol	340	U	79.3	340	450	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	340	U	99.4	340	450	ug/Kg
98-86-2	Acetophenone	340	U	78.2	340	450	ug/Kg
65794-96-9	3+4-Methylphenols	720	U	110	720	880	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	210	U	130	210	210	ug/Kg
67-72-1	Hexachloroethane	340	U	46.7	340	450	ug/Kg
98-95-3	Nitrobenzene	340	U	48.5	340	450	ug/Kg
78-59-1	Isophorone	340	U	87.0	340	450	ug/Kg
88-75-5	2-Nitrophenol	340	U	150	340	450	ug/Kg
105-67-9	2,4-Dimethylphenol	340	U	170	340	450	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	340	U	81.7	340	450	ug/Kg
120-83-2	2,4-Dichlorophenol	340	U	75.0	340	450	ug/Kg
91-20-3	Naphthalene	340	U	60.2	340	450	ug/Kg
106-47-8	4-Chloroaniline	340	U	93.9	340	450	ug/Kg
87-68-3	Hexachlorobutadiene	340	U	67.1	340	450	ug/Kg
105-60-2	Caprolactam	720	U	140	720	880	ug/Kg
59-50-7	4-Chloro-3-methylphenol	340	U	76.1	340	450	ug/Kg
91-57-6	2-Methylnaphthalene	340	U	67.9	340	450	ug/Kg
77-47-4	Hexachlorocyclopentadiene	720	U	310	720	880	ug/Kg
88-06-2	2,4,6-Trichlorophenol	340	U	52.5	340	450	ug/Kg
95-95-4	2,4,5-Trichlorophenol	340	U	77.2	340	450	ug/Kg
92-52-4	1,1-Biphenyl	340	U	57.8	340	450	ug/Kg
91-58-7	2-Chloronaphthalene	340	U	59.7	340	450	ug/Kg
88-74-4	2-Nitroaniline	340	U	130	340	450	ug/Kg
131-11-3	Dimethylphthalate	340	U	71.9	340	450	ug/Kg

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	84SB-E	SDG No.:	Q2819
Lab Sample ID:	Q2819-09	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	37.6
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP025518.D	1	08/14/25 08:40	08/20/25 22:32	PB169242

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	340	U	76.6	340	450	ug/Kg
606-20-2	2,6-Dinitrotoluene	340	U	89.1	340	450	ug/Kg
99-09-2	3-Nitroaniline	340	U	120	340	450	ug/Kg
83-32-9	Acenaphthene	340	U	56.5	340	450	ug/Kg
51-28-5	2,4-Dinitrophenol	720	U	610	720	880	ug/Kg
100-02-7	4-Nitrophenol	720	U	280	720	880	ug/Kg
132-64-9	Dibenzofuran	340	U	60.2	340	450	ug/Kg
121-14-2	2,4-Dinitrotoluene	340	U	130	340	450	ug/Kg
84-66-2	Diethylphthalate	340	U	75.0	340	450	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	340	U	70.8	340	450	ug/Kg
86-73-7	Fluorene	340	U	67.1	340	450	ug/Kg
100-01-6	4-Nitroaniline	340	U	170	340	450	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	720	U	270	720	880	ug/Kg
86-30-6	n-Nitrosodiphenylamine	340	U	87.2	340	450	ug/Kg
101-55-3	4-Bromophenyl-phenylether	340	U	73.7	340	450	ug/Kg
118-74-1	Hexachlorobenzene	340	U	67.1	340	450	ug/Kg
1912-24-9	Atrazine	340	U	90.2	340	450	ug/Kg
87-86-5	Pentachlorophenol	720	U	140	720	880	ug/Kg
85-01-8	Phenanthrene	340	U	55.4	340	450	ug/Kg
120-12-7	Anthracene	340	U	88.3	340	450	ug/Kg
86-74-8	Carbazole	340	U	82.7	340	450	ug/Kg
84-74-2	Di-n-butylphthalate	340	U	130	340	450	ug/Kg
206-44-0	Fluoranthene	340	U	79.5	340	450	ug/Kg
129-00-0	Pyrene	340	U	95.5	340	450	ug/Kg
85-68-7	Butylbenzylphthalate	340	U	190	340	450	ug/Kg
91-94-1	3,3-Dichlorobenzidine	720	U	97.3	720	880	ug/Kg
56-55-3	Benzo(a)anthracene	340	U	61.0	340	450	ug/Kg
218-01-9	Chrysene	340	U	52.8	340	450	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	340	U	160	340	450	ug/Kg
117-84-0	Di-n-octyl phthalate	720	U	230	720	880	ug/Kg
205-99-2	Benzo(b)fluoranthene	340	U	50.4	340	450	ug/Kg

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Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	84SB-E	SDG No.:	Q2819
Lab Sample ID:	Q2819-09	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	37.6
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP025518.D	1	08/14/25 08:40	08/20/25 22:32	PB169242

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	340	U	59.4	340	450	ug/Kg
50-32-8	Benzo(a)pyrene	340	U	78.2	340	450	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	340	U	77.2	340	450	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	340	U	72.7	340	450	ug/Kg
191-24-2	Benzo(g,h,i)perylene	340	U	68.1	340	450	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	340	U	67.9	340	450	ug/Kg
123-91-1	1,4-Dioxane	340	UQ	120	340	450	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	340	U	72.7	340	450	ug/Kg
SURROGATES							
367-12-4	2-Fluorophenol	97.1		35 - 115		65%	SPK: 150
13127-88-3	Phenol-d6	93.3		34 - 127		62%	SPK: 150
4165-60-0	Nitrobenzene-d5	65.3		37 - 122		65%	SPK: 100
321-60-8	2-Fluorobiphenyl	55.4		44 - 115		55%	SPK: 100
118-79-6	2,4,6-Tribromophenol	98.0		39 - 132		65%	SPK: 150
1718-51-0	Terphenyl-d14	51.5	*	54 - 127		51%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	165000	7.784				
1146-65-2	Naphthalene-d8	629000	10.555				
15067-26-2	Acenaphthene-d10	393000	14.401				
1517-22-2	Phenanthrene-d10	801000	17.195				
1719-03-5	Chrysene-d12	914000	21.636				
1520-96-3	Perylene-d12	1000000	25.013				
TENTATIVE IDENTIFIED COMPOUNDS							
000994-05-8	Butane, 2-methoxy-2-methyl-	3100	J			3.04	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	540	AB			4.94	ug/Kg
000119-61-9	Benzophenone	510	J			15.8	ug/Kg
000057-10-3	n-Hexadecanoic acid	540	J			18.1	ug/Kg
000110-34-9	Hexadecanoic acid, 2-methylpropyl	340	JB			19.4	ug/Kg
000057-11-4	Octadecanoic acid	210	J			19.5	ug/Kg
000111-06-8	Hexadecanoic acid, butyl ester	750	JB			19.6	ug/Kg

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	84SB-E	SDG No.:	Q2819
Lab Sample ID:	Q2819-09	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	37.6
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP025518.D	1	08/14/25 08:40	08/20/25 22:32	PB169242

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
000646-13-9	Octadecanoic acid, 2-methylpropyl	190	J			20.5	ug/Kg
000123-95-5	Octadecanoic acid, butyl ester	630	JB			20.7	ug/Kg
018835-32-0	1-Tricosene	610	J			21.3	ug/Kg
000593-45-3	Octadecane	180	J			21.9	ug/Kg
000629-97-0	Docosane	280	J			22.6	ug/Kg

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

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025518.D
Acq On : 20 Aug 2025 22:32
Operator : CG/JU
Sample : Q2819-09
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
84SB-E

Quant Time: Aug 21 01:39:17 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration

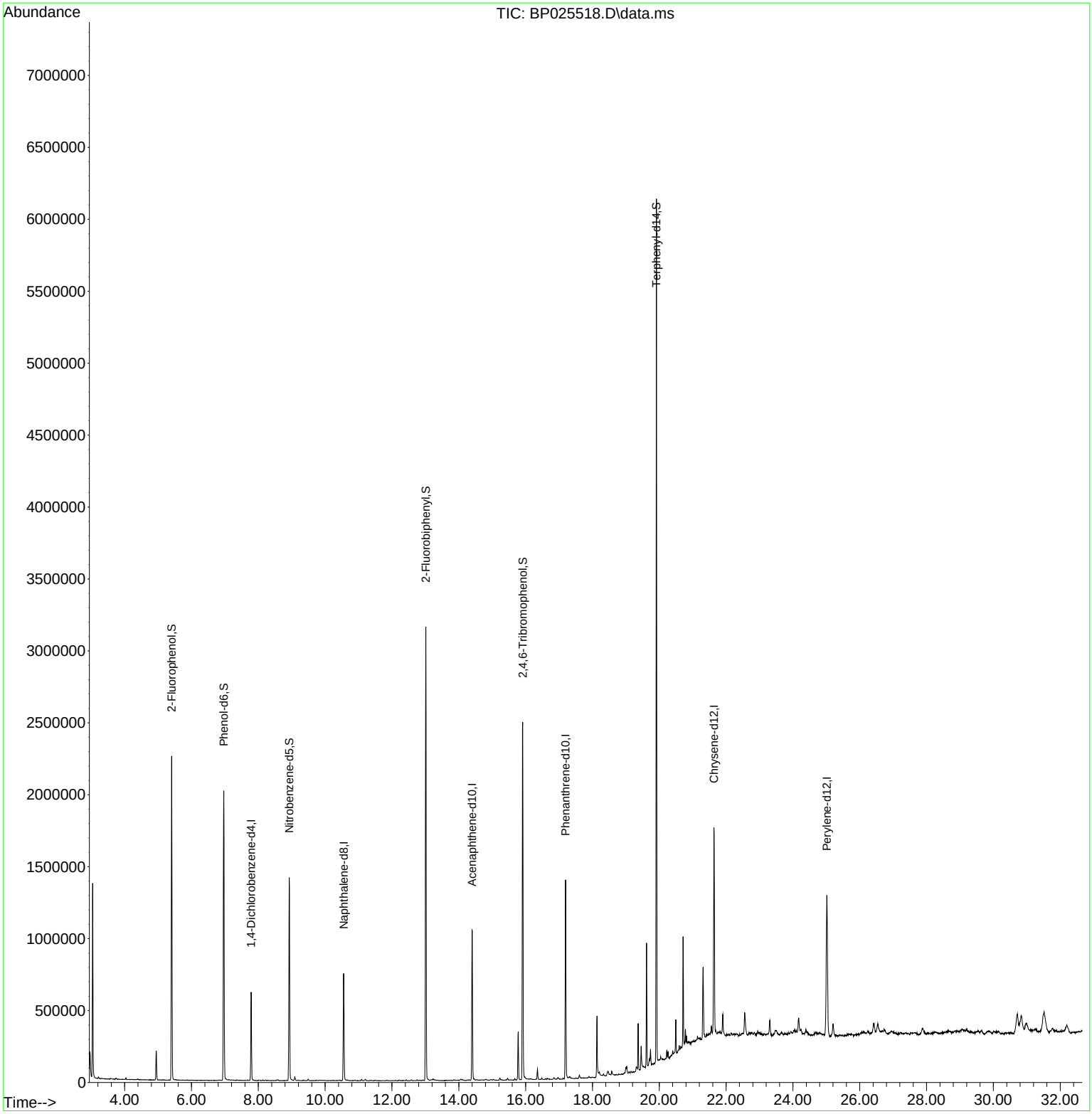
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.784	152	165240	20.000	ng	-0.01
21) Naphthalene-d8	10.555	136	628985	20.000	ng	0.00
39) Acenaphthene-d10	14.401	164	393407	20.000	ng	0.00
64) Phenanthrene-d10	17.195	188	801033	20.000	ng	# 0.00
76) Chrysene-d12	21.636	240	913525	20.000	ng	-0.01
86) Perylene-d12	25.013	264	999794	20.000	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.408	112	966554	97.141	ng	0.00
7) Phenol-d6	6.966	99	1190628	93.333	ng	0.00
23) Nitrobenzene-d5	8.925	82	812400	65.336	ng	-0.01
42) 2,4,6-Tribromophenol	15.913	330	518755	97.965	ng	0.00
45) 2-Fluorobiphenyl	13.013	172	1594469	55.391	ng	0.00
79) Terphenyl-d14	19.913	244	2569178	51.454	ng	0.00
Target Compounds						Qvalue

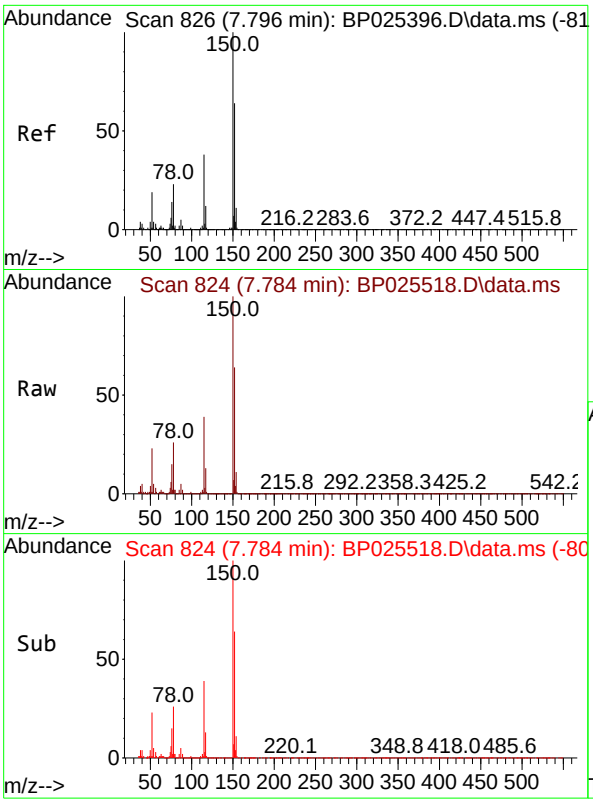
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025518.D
Acq On : 20 Aug 2025 22:32
Operator : CG/JU
Sample : Q2819-09
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
84SB-E

Quant Time: Aug 21 01:39:17 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration



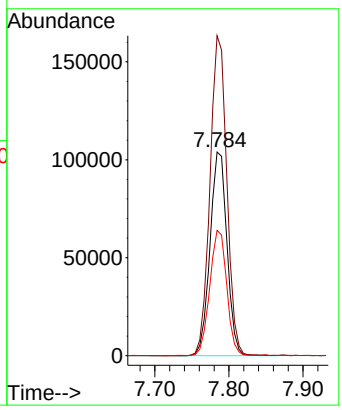


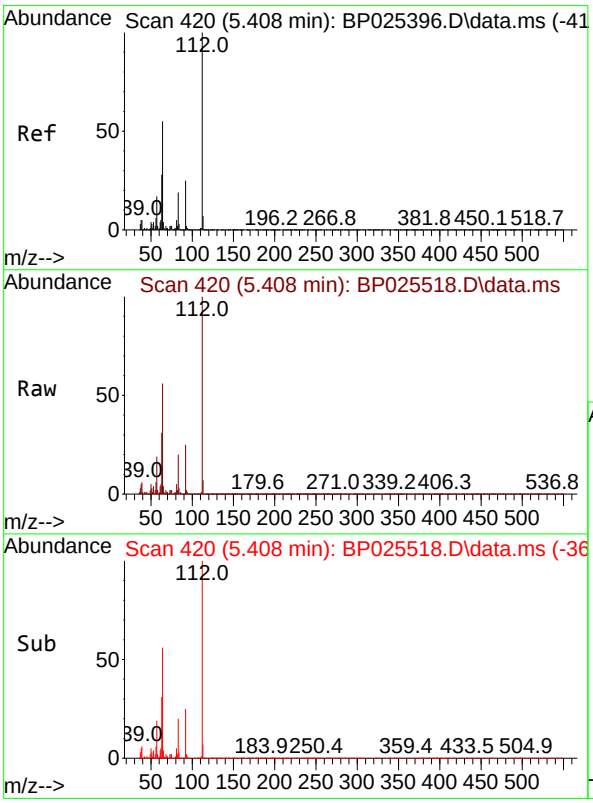
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.784 min Scan# 8
Delta R.T. -0.012 min
Lab File: BP025518.D
Acq: 20 Aug 2025 22:32

Instrument :
BNA_P
ClientSampleId :
84SB-E

Tgt Ion:152 Resp: 165240

Ion	Ratio	Lower	Upper
152	100		
150	157.1	125.9	188.9
115	61.5	48.5	72.7

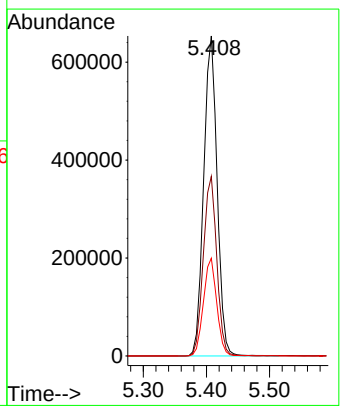


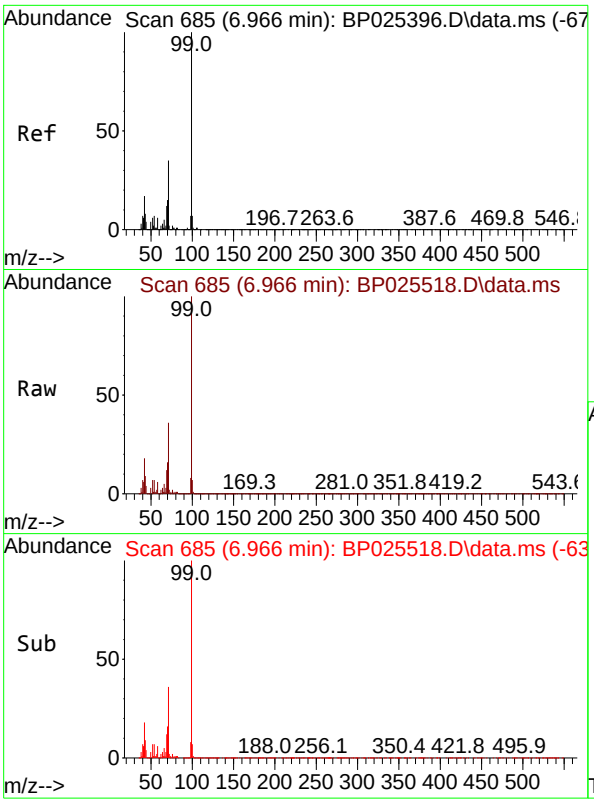


#5
2-Fluorophenol
Concen: 97.141 ng
RT: 5.408 min Scan# 420
Delta R.T. 0.000 min
Lab File: BP025518.D
Acq: 20 Aug 2025 22:32

Tgt Ion:112 Resp: 966554

Ion	Ratio	Lower	Upper
112	100		
64	56.1	43.8	65.8
63	30.5	22.7	34.1



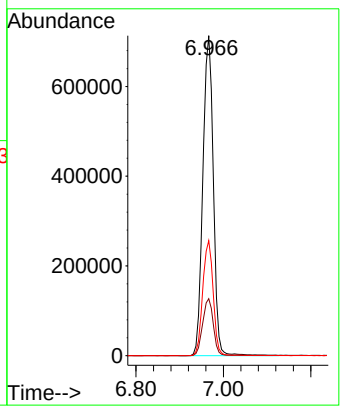


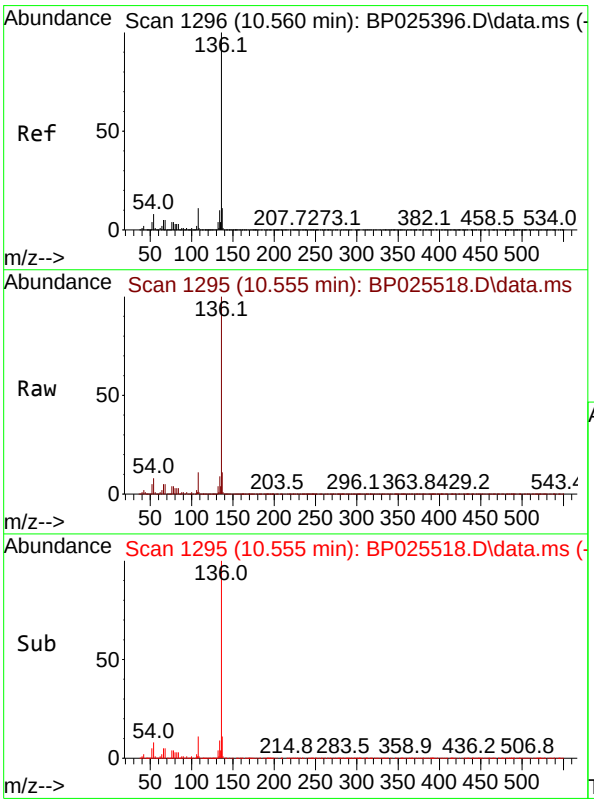
#7
Phenol-d6
Concen: 93.333 ng
RT: 6.966 min Scan# 6
Delta R.T. 0.000 min
Lab File: BP025518.D
Acq: 20 Aug 2025 22:32

Instrument :
BNA_P
ClientSampleId :
84SB-E

Tgt Ion: 99 Resp: 1190628

Ion	Ratio	Lower	Upper
99	100		
42	17.8	13.7	20.5
71	35.9	28.2	42.4

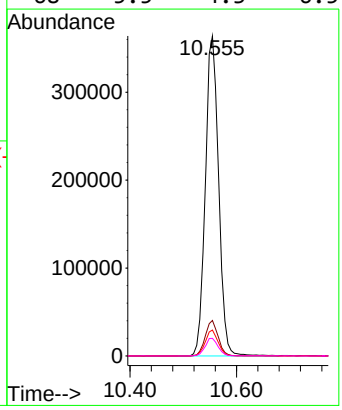


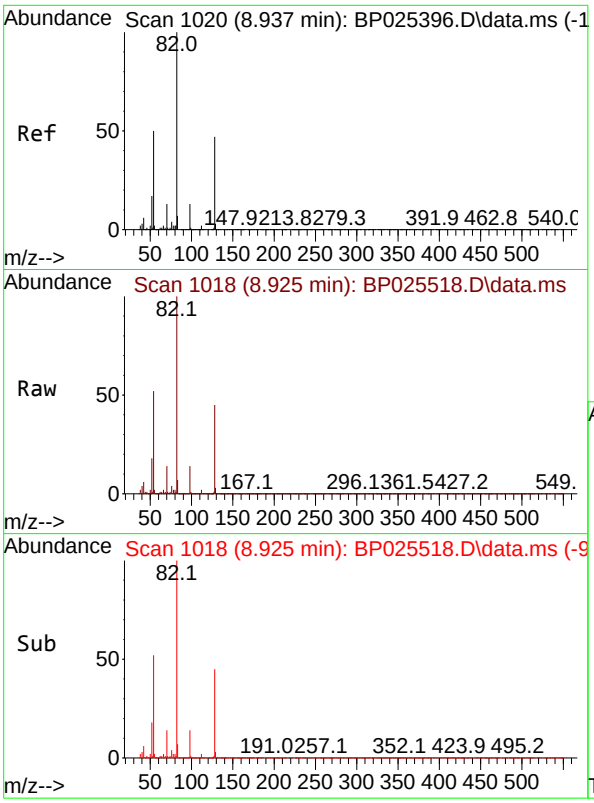


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.555 min Scan# 1295
Delta R.T. -0.006 min
Lab File: BP025518.D
Acq: 20 Aug 2025 22:32

Tgt Ion:136 Resp: 628985

Ion	Ratio	Lower	Upper
136	100		
137	11.1	9.2	13.8
54	8.1	6.0	9.0
68	5.5	4.3	6.5



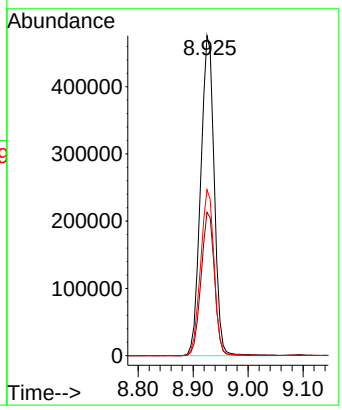


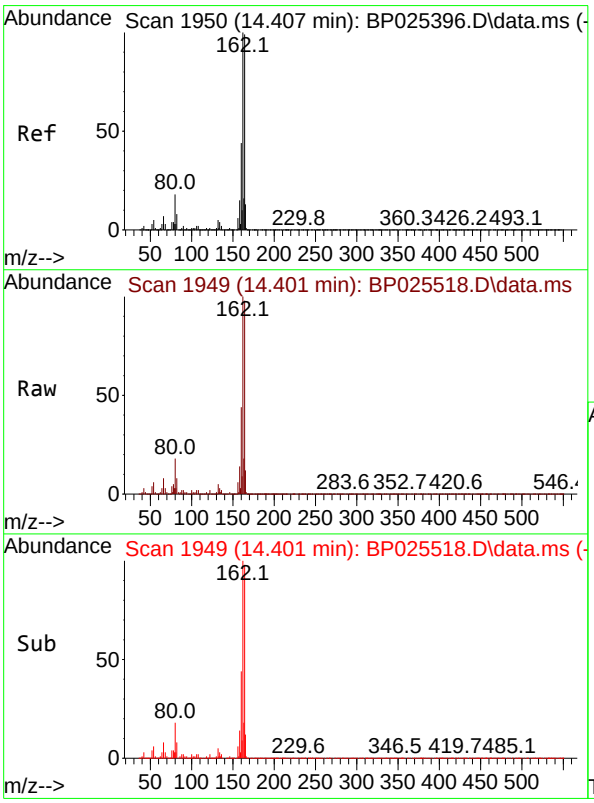
#23
Nitrobenzene-d5
Concen: 65.336 ng
RT: 8.925 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP025518.D
Acq: 20 Aug 2025 22:32

Instrument :
BNA_P
ClientSampleId :
84SB-E

Tgt Ion: 82 Resp: 812400

Ion	Ratio	Lower	Upper
82	100		
128	44.8	37.7	56.5
54	51.9	39.8	59.6

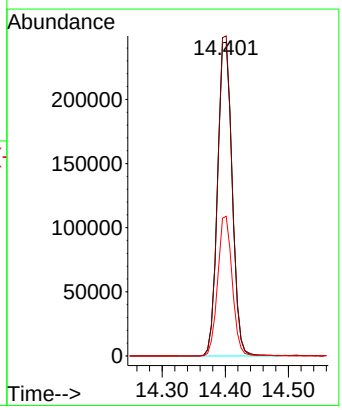


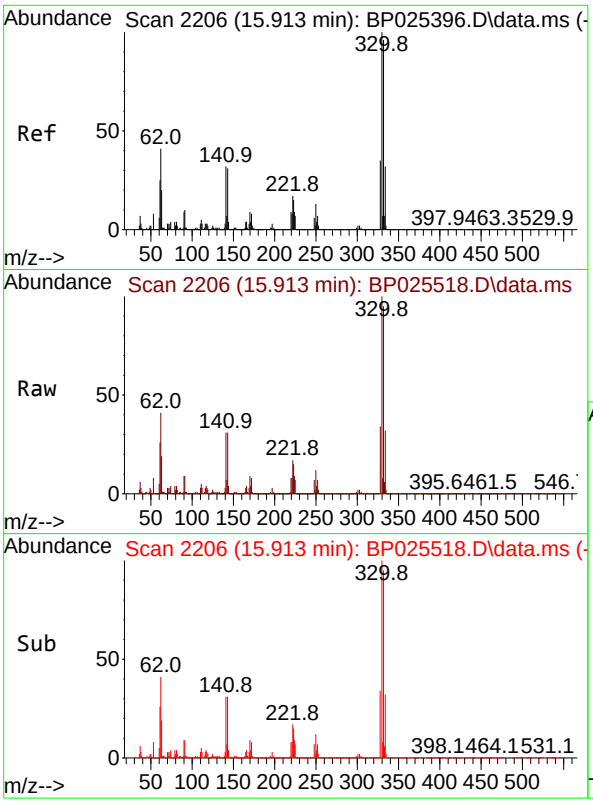


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.401 min Scan# 1949
Delta R.T. -0.006 min
Lab File: BP025518.D
Acq: 20 Aug 2025 22:32

Tgt Ion:164 Resp: 393407

Ion	Ratio	Lower	Upper
164	100		
162	102.0	81.0	121.6
160	44.5	35.4	53.2



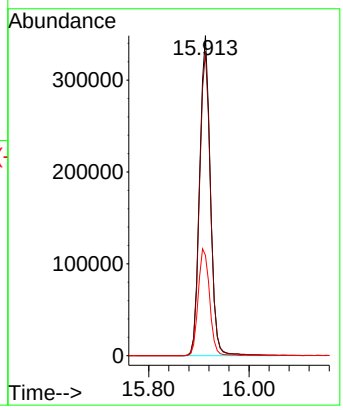


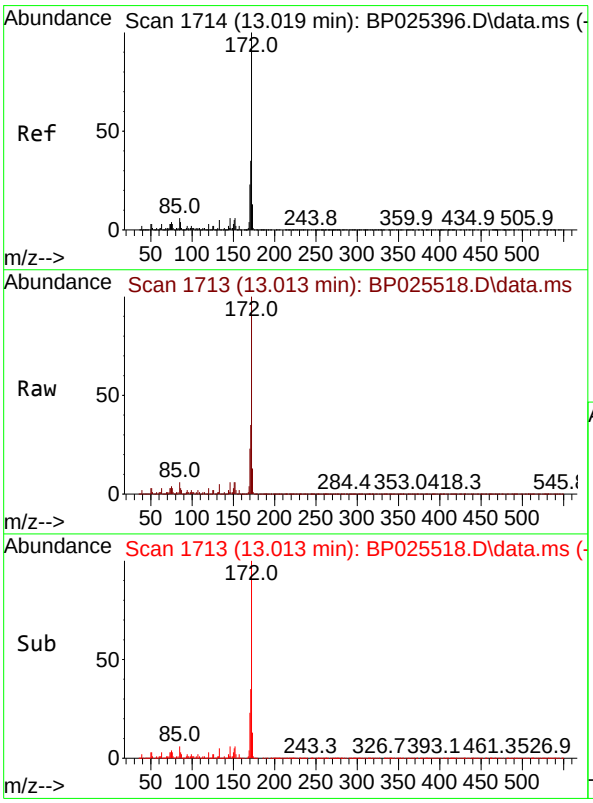
#42
2,4,6-Tribromophenol
Concen: 97.965 ng
RT: 15.913 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP025518.D
Acq: 20 Aug 2025 22:32

Instrument :
BNA_P
ClientSampleId :
84SB-E

Tgt Ion:330 Resp: 518755

Ion	Ratio	Lower	Upper
330	100		
332	96.8	77.3	115.9
141	35.2	26.6	39.8

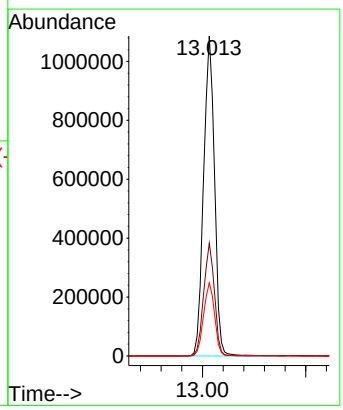


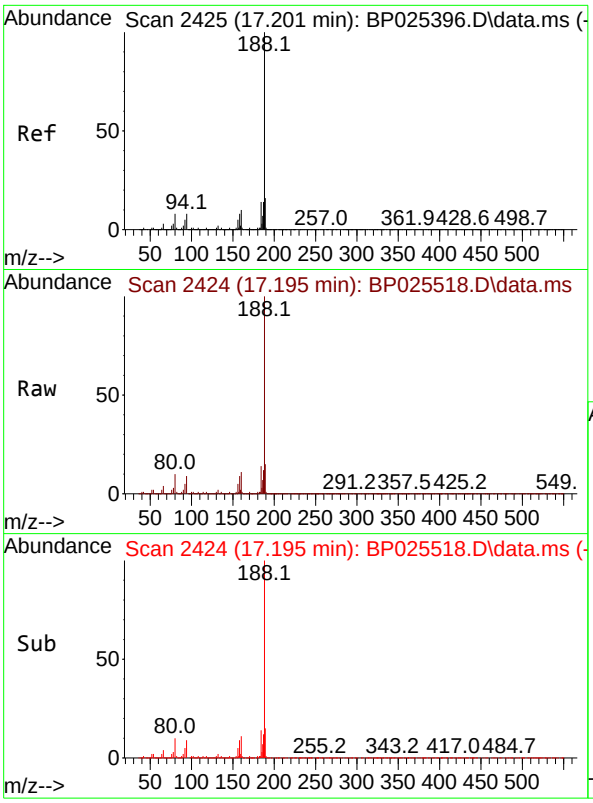


#45
2-Fluorobiphenyl
Concen: 55.391 ng
RT: 13.013 min Scan# 1713
Delta R.T. -0.006 min
Lab File: BP025518.D
Acq: 20 Aug 2025 22:32

Tgt Ion:172 Resp: 1594469

Ion	Ratio	Lower	Upper
172	100		
171	35.2	28.1	42.1
170	22.8	18.6	28.0



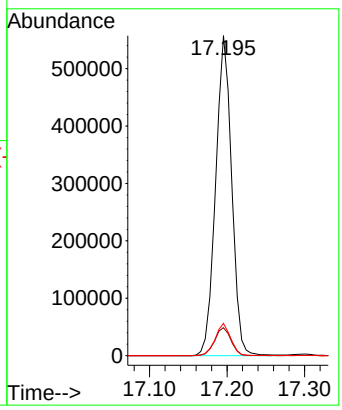


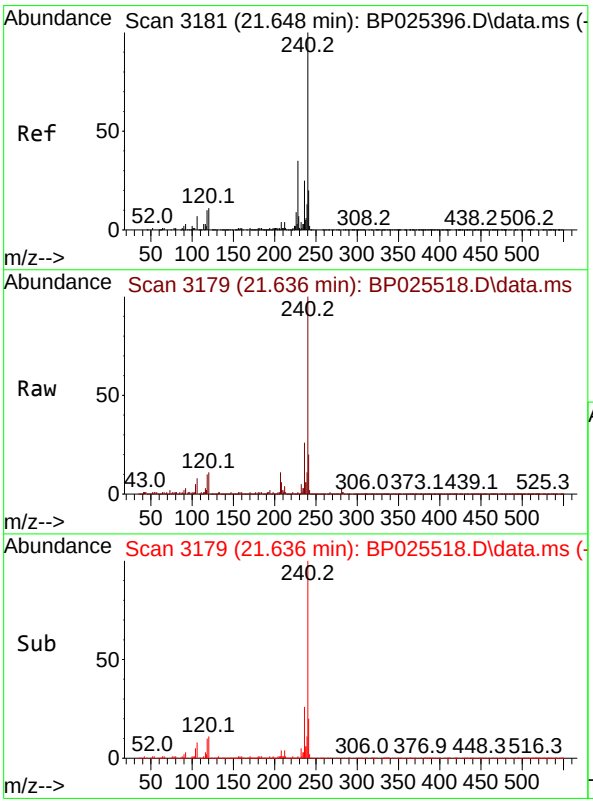
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.195 min Scan# 24
Delta R.T. -0.006 min
Lab File: BP025518.D
Acq: 20 Aug 2025 22:32

Instrument :
BNA_P
ClientSampleId :
84SB-E

Tgt Ion:188 Resp: 801033

Ion	Ratio	Lower	Upper
188	100		
94	8.7	6.6	10.0
80	10.1	6.7	10.1#

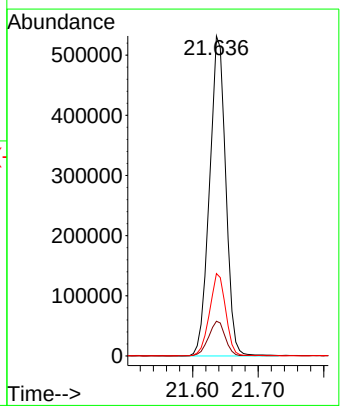


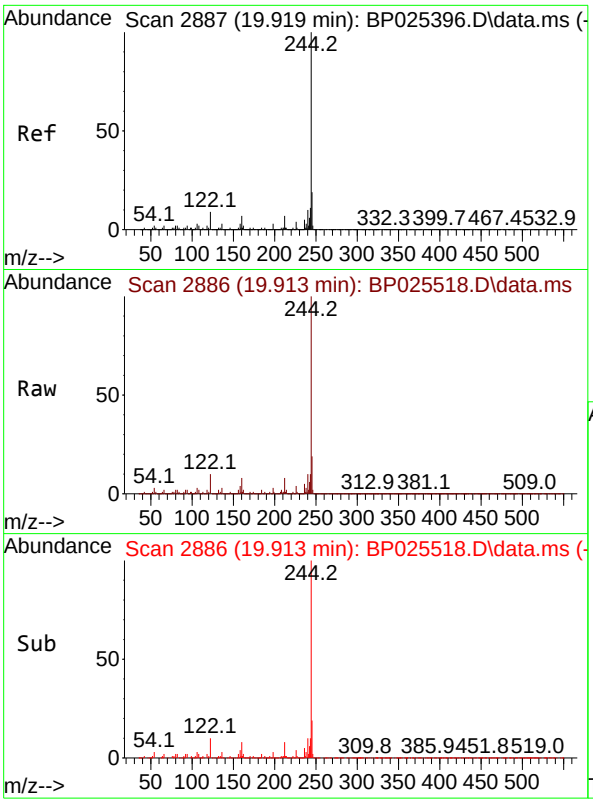


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.636 min Scan# 3179
Delta R.T. -0.012 min
Lab File: BP025518.D
Acq: 20 Aug 2025 22:32

Tgt Ion:240 Resp: 913525

Ion	Ratio	Lower	Upper
240	100		
120	10.8	8.9	13.3
236	25.7	19.8	29.8



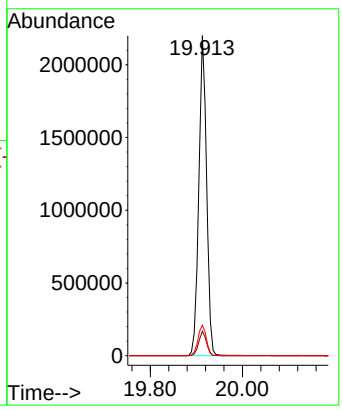


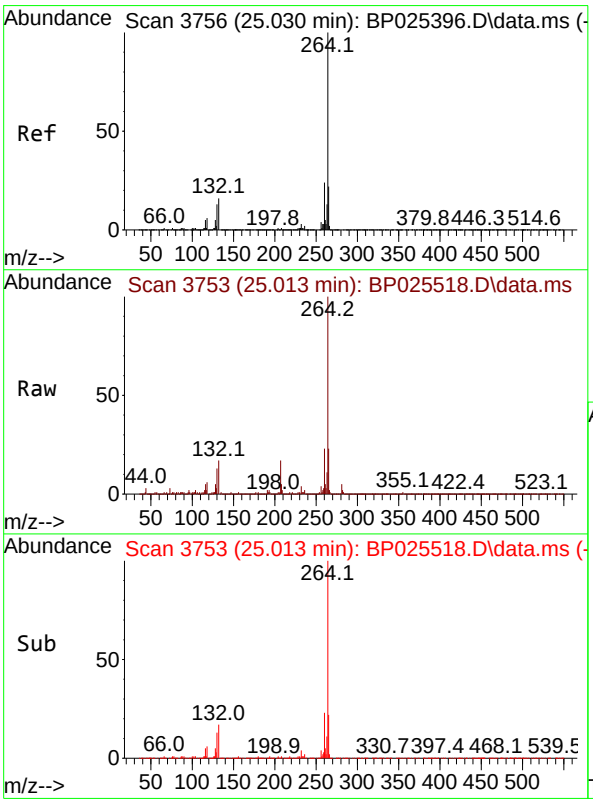
#79
Terphenyl-d14
Concen: 51.454 ng
RT: 19.913 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP025518.D
Acq: 20 Aug 2025 22:32

Instrument :
BNA_P
ClientSampleId :
84SB-E

Tgt Ion:244 Resp: 2569178

Ion	Ratio	Lower	Upper
244	100		
212	7.7	5.8	8.6
122	9.6	7.4	11.2

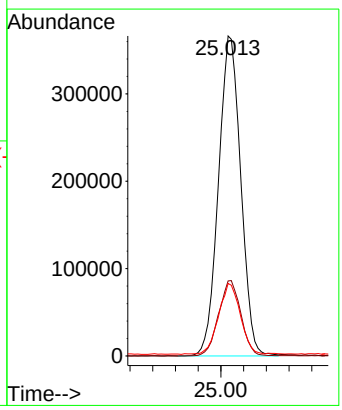




#86
Perylene-d12
Concen: 20.000 ng
RT: 25.013 min Scan# 3753
Delta R.T. -0.017 min
Lab File: BP025518.D
Acq: 20 Aug 2025 22:32

Tgt Ion:264 Resp: 999794

Ion	Ratio	Lower	Upper
264	100		
260	23.4	19.3	28.9
265	22.6	17.4	26.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025518.D
Acq On : 20 Aug 2025 22:32
Operator : CG/JU
Sample : Q2819-09
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
84SB-E

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

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

Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BP025518.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.043	13	18	33	rVB	1354160	1723255	24.31%	3.938%
2	4.943	335	341	348	rBV	202236	294684	4.16%	0.673%
3	5.408	413	420	433	rBV	2251831	3325388	46.92%	7.600%
4	6.966	675	685	694	rBV	2012748	3387963	47.80%	7.743%
5	7.784	817	824	834	rBV	613529	971840	13.71%	2.221%
6	8.925	1009	1018	1030	rBV	1410989	2411017	34.02%	5.510%
7	10.555	1285	1295	1307	rBV	745669	1288898	18.19%	2.946%
8	13.013	1705	1713	1724	rBV	3155027	4642109	65.50%	10.609%
9	14.395	1941	1948	1957	rBV	1044236	1690993	23.86%	3.865%
10	15.778	2176	2183	2190	rBV	336598	489796	6.91%	1.119%
11	15.913	2198	2206	2225	rBV	2485643	4001499	56.46%	9.145%
12	16.354	2276	2281	2287	rVB	71056	98611	1.39%	0.225%
13	17.195	2417	2424	2434	rBV2	1384770	2038796	28.77%	4.660%
14	18.136	2578	2584	2593	rBV	425310	627821	8.86%	1.435%
15	19.366	2789	2793	2800	rVB	323621	392986	5.54%	0.898%
16	19.460	2804	2809	2818	rBV	163942	294323	4.15%	0.673%
17	19.619	2831	2836	2841	rBV	866729	1032860	14.57%	2.361%
18	19.736	2853	2856	2861	rVB	107488	137420	1.94%	0.314%
19	19.913	2880	2886	2894	rBV	6003462	7087305	100.00%	16.198%
20	20.495	2981	2985	2989	rVB	231951	265347	3.74%	0.606%
21	20.713	3018	3022	3028	rBV	762399	863099	12.18%	1.973%
22	20.783	3031	3034	3037	rVV	93238	94778	1.34%	0.217%
23	21.313	3119	3124	3135	rBV	490039	827965	11.68%	1.892%
24	21.636	3173	3179	3187	rVB2	1419429	2419088	34.13%	5.529%
25	21.901	3221	3224	3237	rVB2	148693	250898	3.54%	0.573%
26	22.554	3332	3335	3351	rVB4	160190	385776	5.44%	0.882%
27	25.013	3745	3753	3769	rVB	982410	2710118	38.24%	6.194%

Sum of corrected areas: 43754633

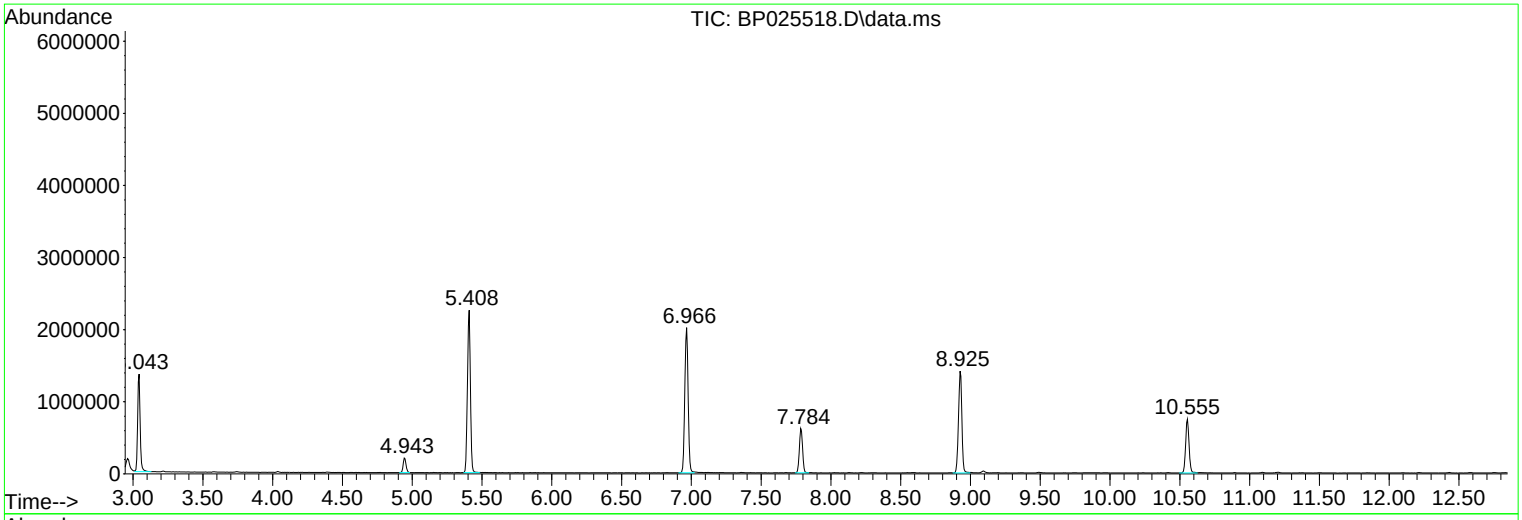
Sample Results: **BP025518.D**

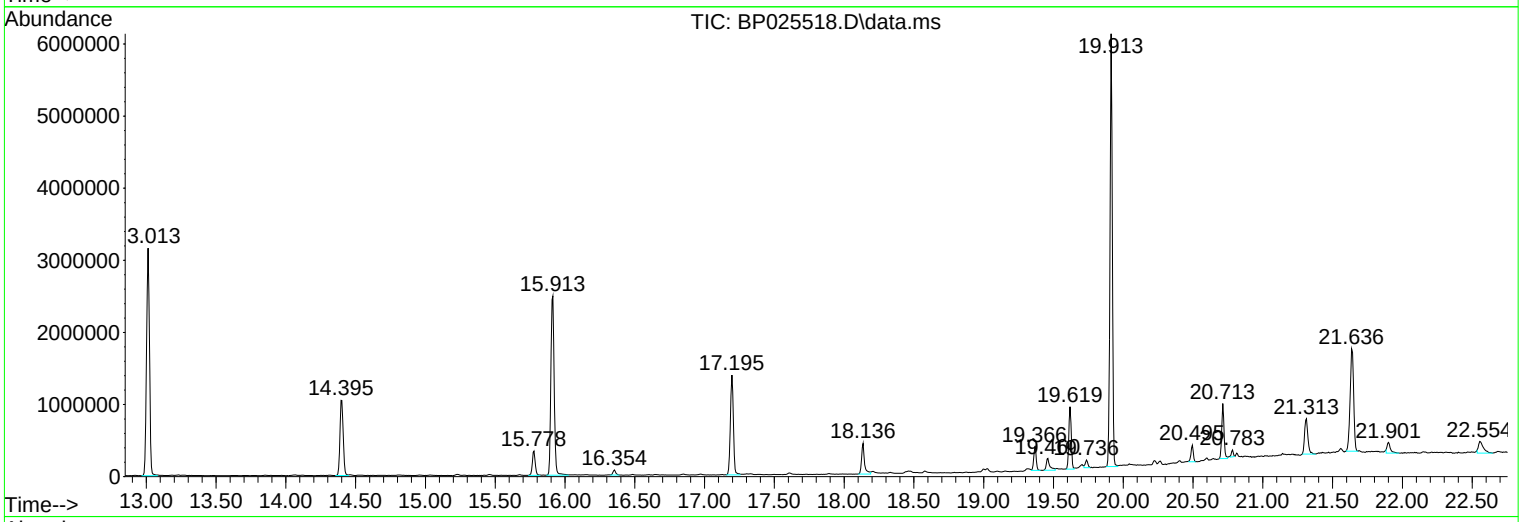
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025518.D
Acq On : 20 Aug 2025 22:32
Operator : CG/JU
Sample : Q2819-09
Misc :
ALS Vial : 8 Sample Multiplier: 1

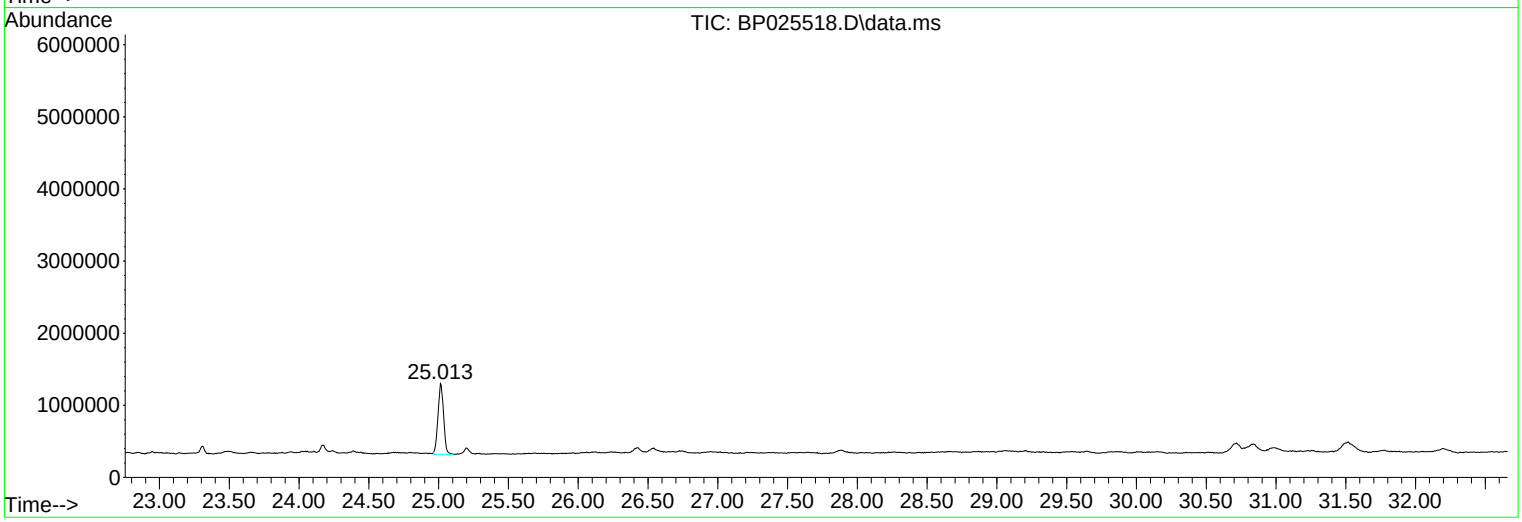
Instrument :
BNA_P
ClientSampleId :
84SB-E

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.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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Sample : Q2819-09
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
84SB-E

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

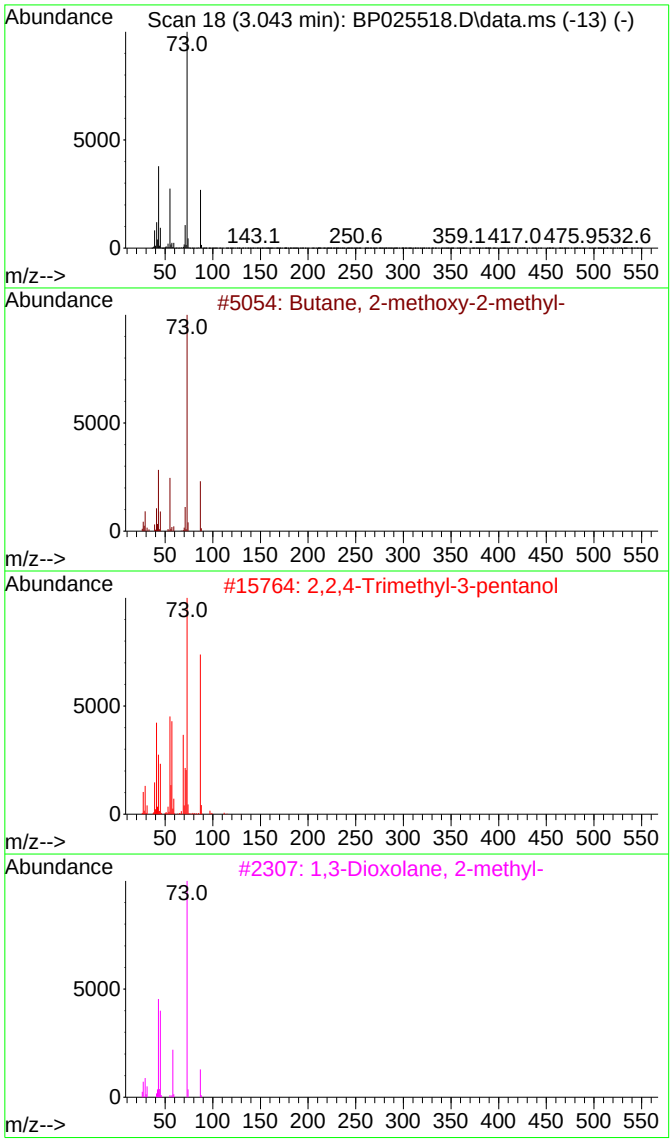
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

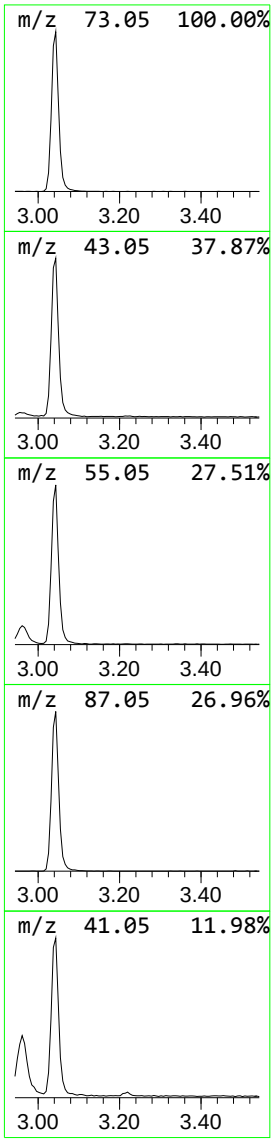
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.043	35.46 ng	1723260	1,4-Dichlorobenzene-d4	7.784

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	1,3-Dioxolane, 2-methyl-	88	C4H8O2	000497-26-7	23
4	Acetamide, N-ethyl-	87	C4H9NO	000625-50-3	22
5	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	12





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Misc :
ALS Vial : 8 Sample Multiplier: 1

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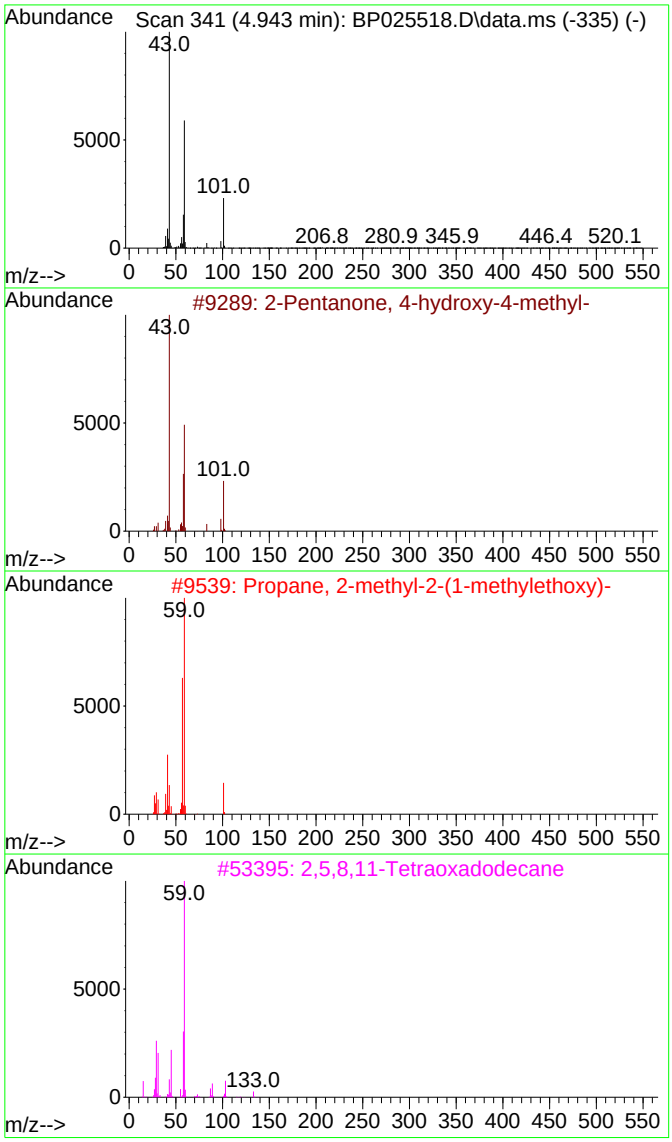
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

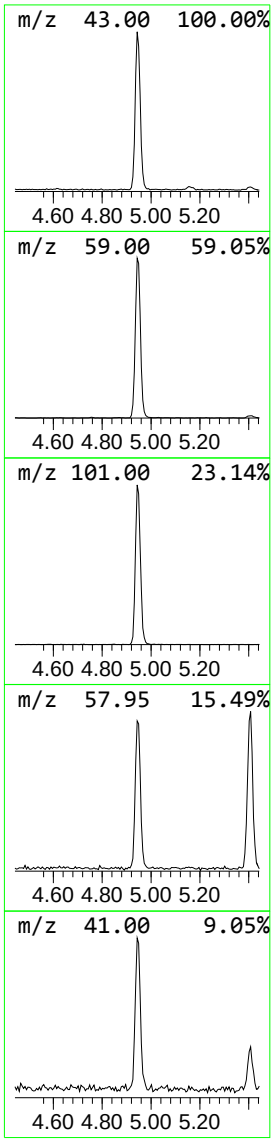
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.943	6.06 ng	294684	1,4-Dichlorobenzene-d4	7.784

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	64
2	Propane, 2-methyl-2-(1-methyleth...	116	C7H16O	017348-59-3	53
3	2,5,8,11-Tetraoxadodecane	178	C8H18O4	000112-49-2	23
4	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	23
5	Formamide, N,N-diethyl-	101	C5H11NO	000617-84-5	9





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Sample : Q2819-09
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
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Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

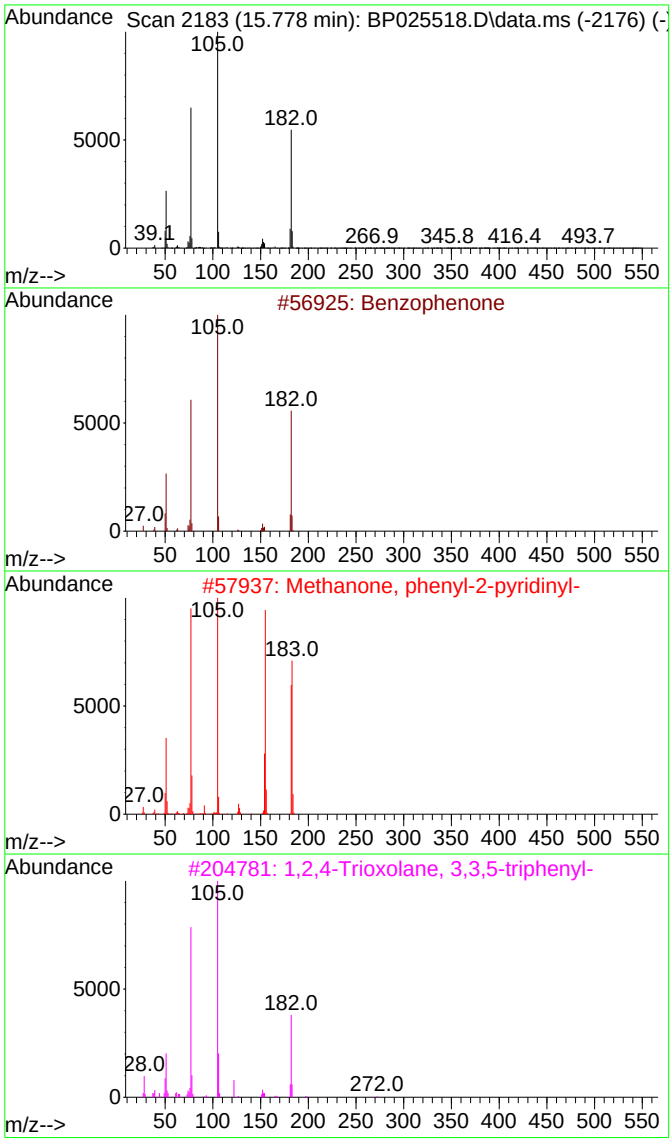
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

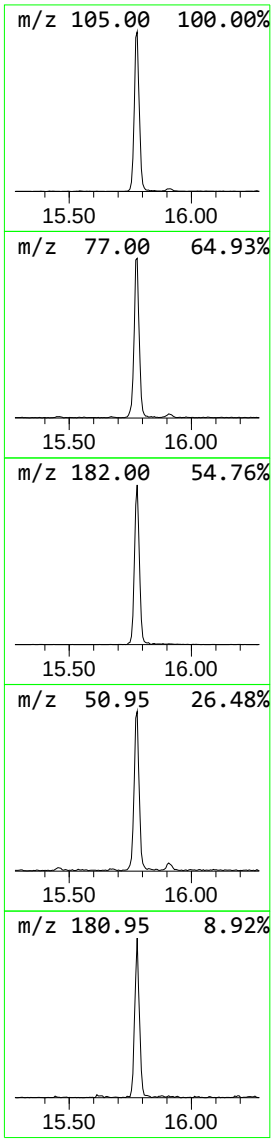
****

Peak Number 3 Benzophenone Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.778	5.79 ng	489796	Acenaphthene-d10	14.401

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	56
3	1,2,4-Trioxolane, 3,3,5-triphenyl-	304	C20H16O3	023246-12-0	45
4	Benzenamine, N-(3-pyridinylmethy...	182	C12H10N2	029722-97-2	45
5	Azobenzene	182	C12H10N2	000103-33-3	42





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Acq On : 20 Aug 2025 22:32
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Sample : Q2819-09
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ALS Vial : 8 Sample Multiplier: 1

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BNA_P
ClientSampleId :
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Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

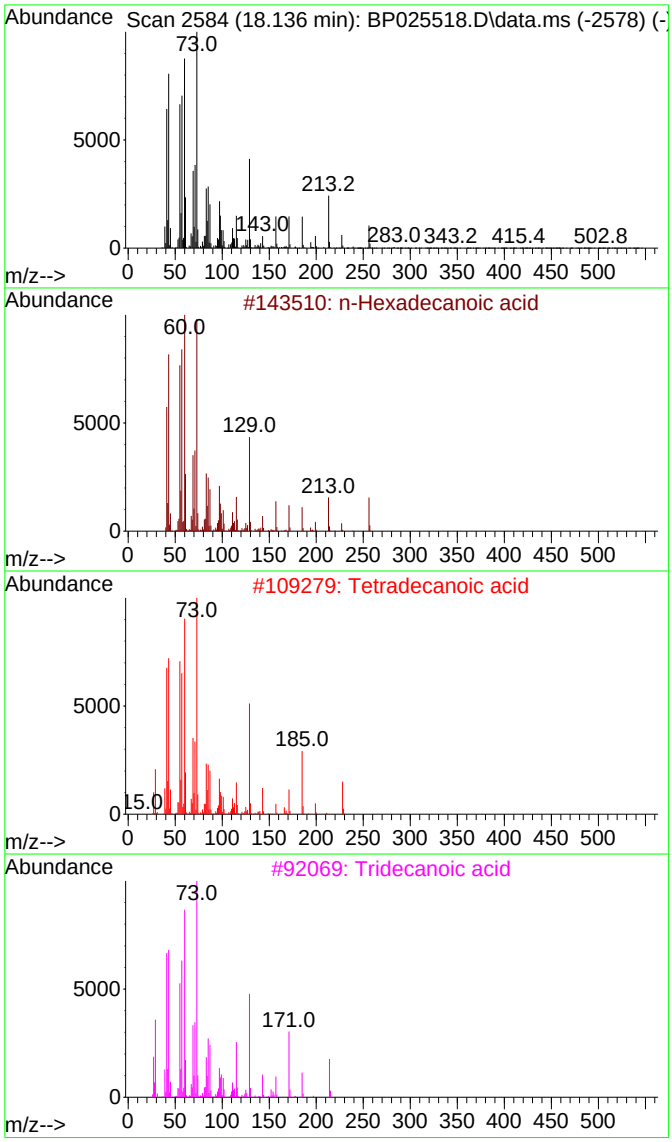
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

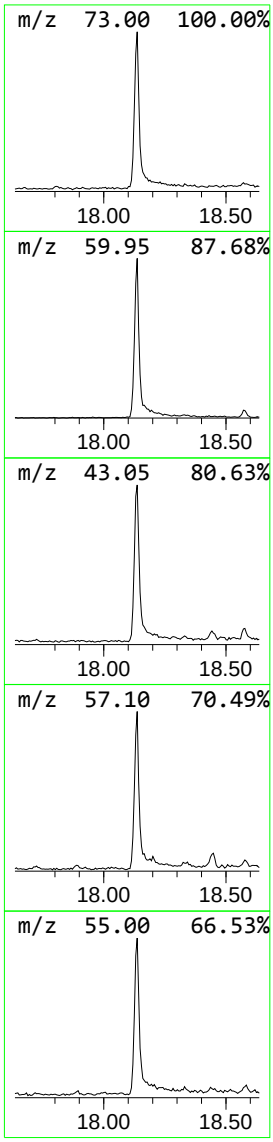
****

Peak Number 4 n-Hexadecanoic acid Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.137	6.16 ng	627821	Phenanthrene-d10	17.195

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	93
3	Tridecanoic acid	214	C13H26O2	000638-53-9	90
4	Pentadecanoic acid	242	C15H30O2	001002-84-2	90
5	n-Decanoic acid	172	C10H20O2	000334-48-5	68





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Acq On : 20 Aug 2025 22:32
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Sample : Q2819-09
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
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ClientSampleId :
84SB-E

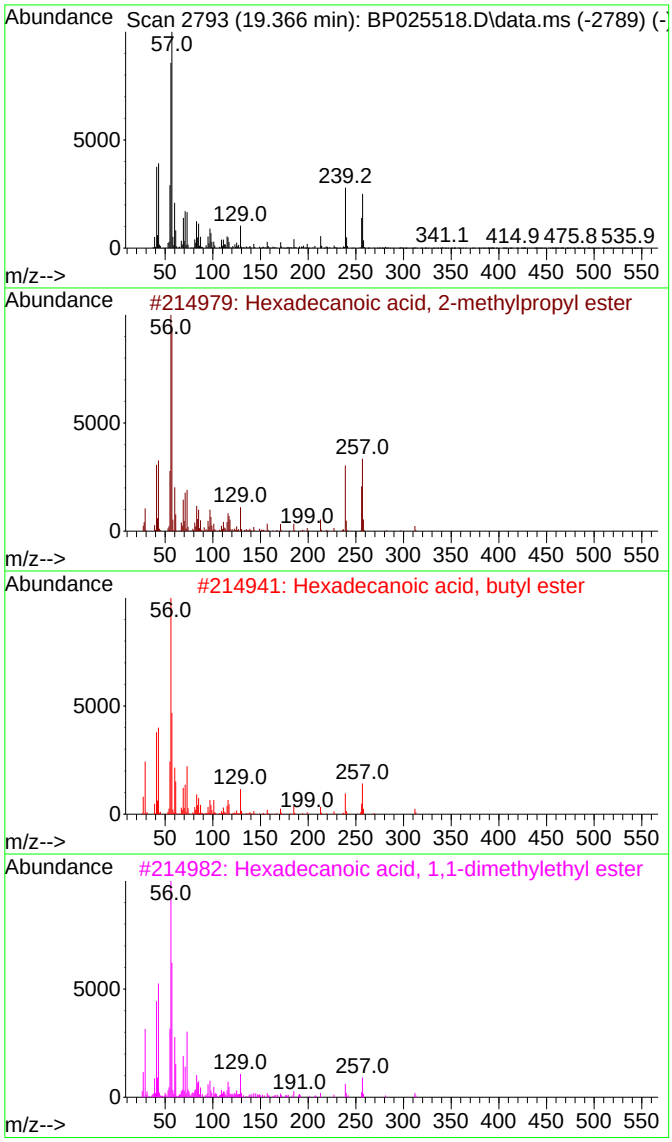
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

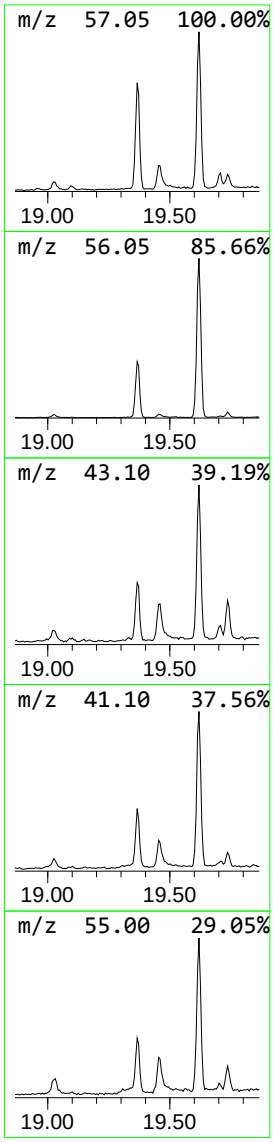
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 5 Hexadecanoic acid, 2-methyl... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.366	3.86 ng	392986	Phenanthrene-d10	17.195

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecanoic acid, 2-methylpropy...	312	C20H40O2	000110-34-9	90
2	Hexadecanoic acid, butyl ester	312	C20H40O2	000111-06-8	64
3	Hexadecanoic acid, 1,1-dimethyle...	312	C20H40O2	031158-91-5	47
4	Urea, N,N'-di-2-propenyl-	140	C7H12N2O	001801-72-5	35
5	Decane, 2,2,3-trimethyl-	184	C13H28	062338-09-4	35





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Operator : CG/JU
Sample : Q2819-09
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
84SB-E

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

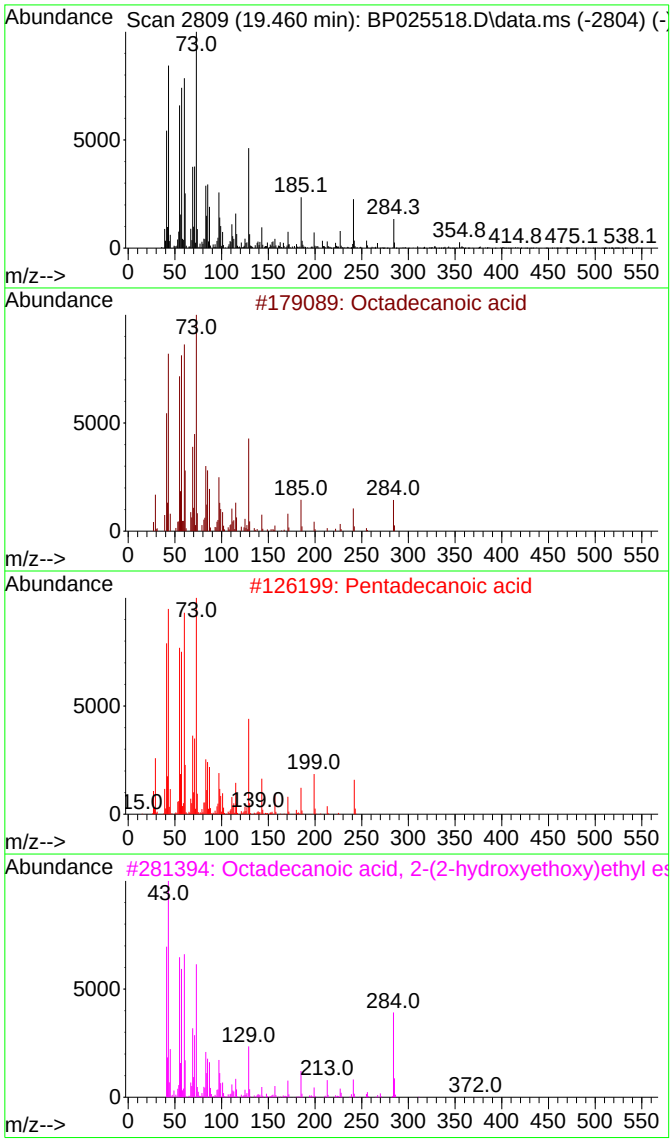
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

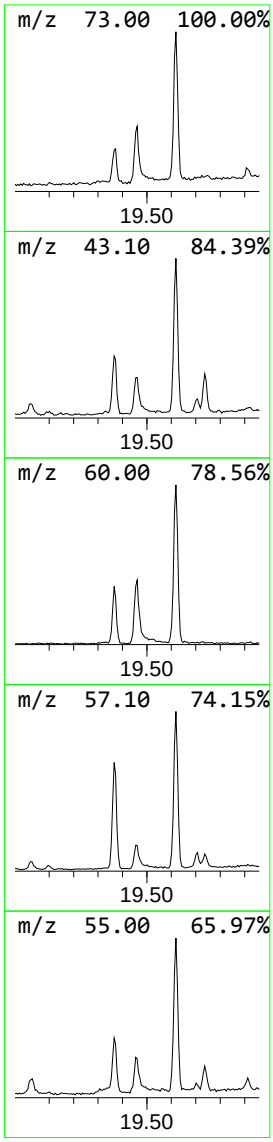
****

Peak Number 6 Octadecanoic acid Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.460	2.43 ng	294323	Chrysene-d12	21.636

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanoic acid	284	C18H36O2	000057-11-4	99
2	Pentadecanoic acid	242	C15H30O2	001002-84-2	89
3	Octadecanoic acid, 2-(2-hydroxye...	372	C22H44O4	000106-11-6	72
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	64
5	n-Decanoic acid	172	C10H20O2	000334-48-5	64





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

TIC Library   : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P
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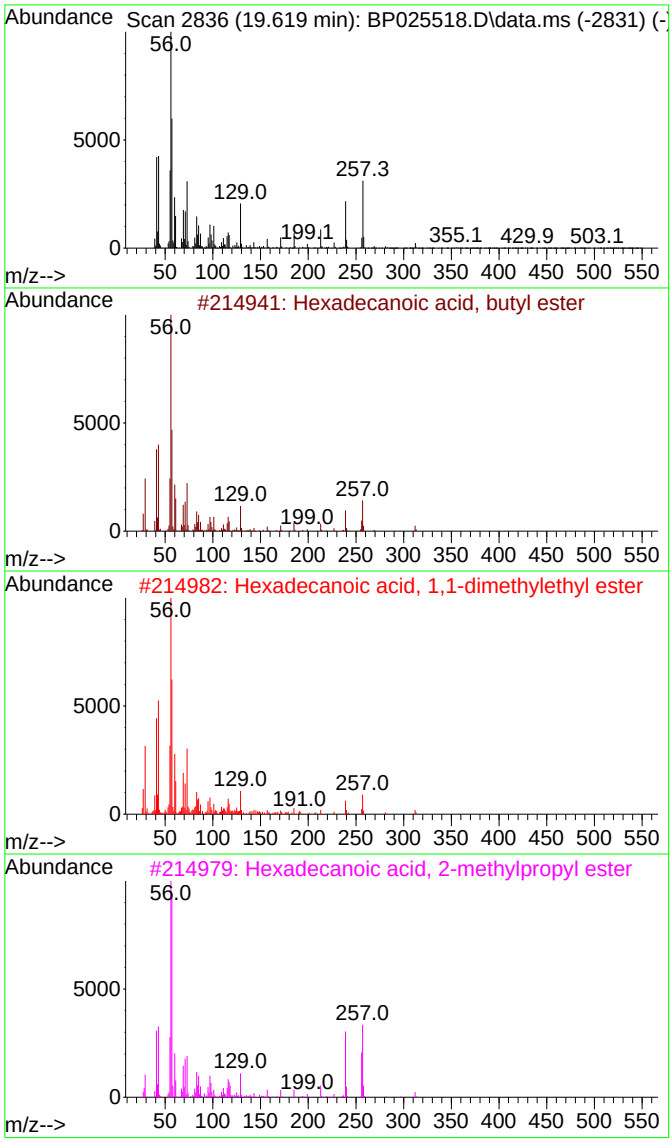
Instrument :
BNA_P
ClientSampleId :
84SB-E

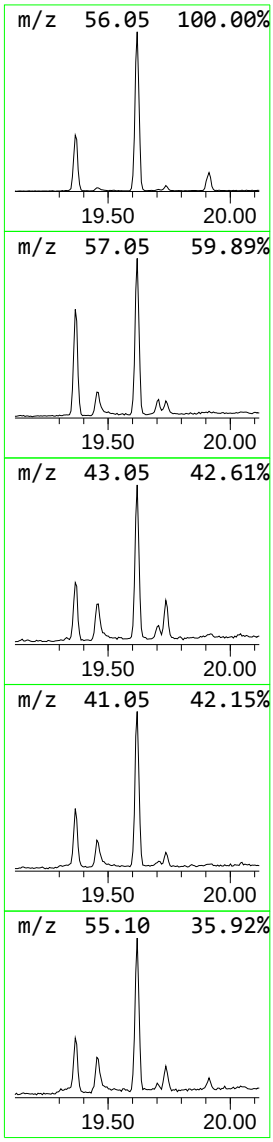
****

Peak Number 7 Hexadecanoic acid, butyl ester Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.619	8.54 ng	1032860	Chrysene-d12	21.636

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecanoic acid, butyl ester	312	C20H40O2	000111-06-8	98
2	Hexadecanoic acid, 1,1-dimethyle...	312	C20H40O2	031158-91-5	96
3	Hexadecanoic acid, 2-methylpropy...	312	C20H40O2	000110-34-9	90
4	Cyclohexanol, 4-amino-, trans-	115	C6H13NO	027489-62-9	27
5	1-Heptene, 2-methyl-	112	C8H16	015870-10-7	27





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ALS Vial : 8 Sample Multiplier: 1

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

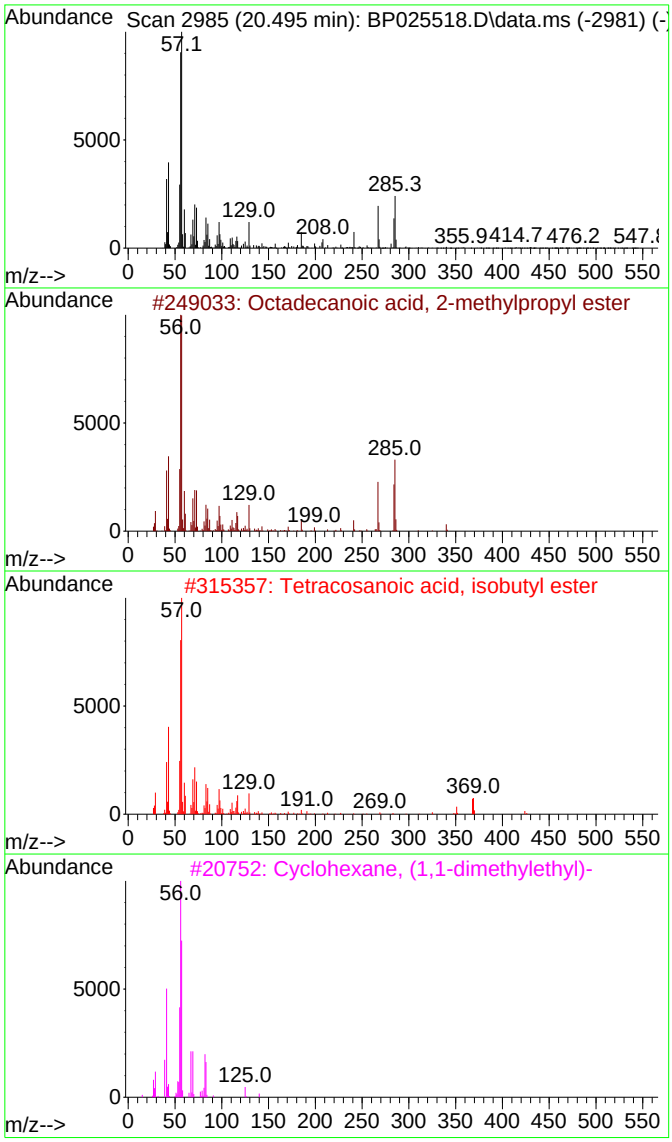
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

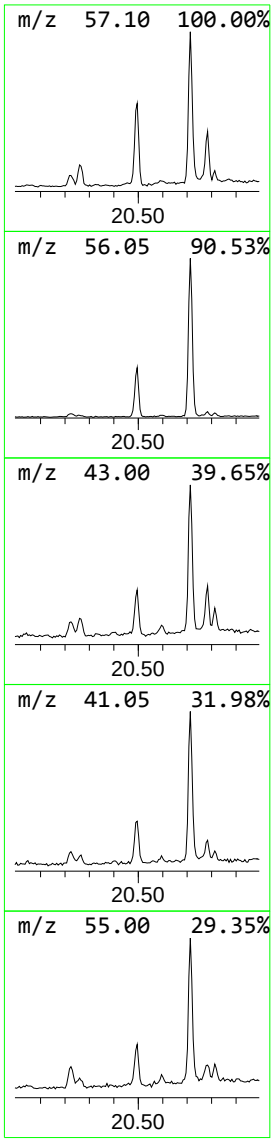
****

Peak Number 8 Octadecanoic acid, 2-methyl... Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.495	2.19 ng	265347	Chrysene-d12	21.636

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanoic acid, 2-methylpropy...	340	C22H44O2	000646-13-9	91
2	Tetracosanoic acid, isobutyl ester	424	C28H56O2	1010405-17-3	60
3	Cyclohexane, (1,1-dimethylethyl)-	140	C10H20	003178-22-1	38
4	Decane, 2,2,3-trimethyl-	184	C13H28	062338-09-4	38
5	Cyclopentanecarboxylic acid, 2-a...	129	C6H11NO2	037910-65-9	38





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

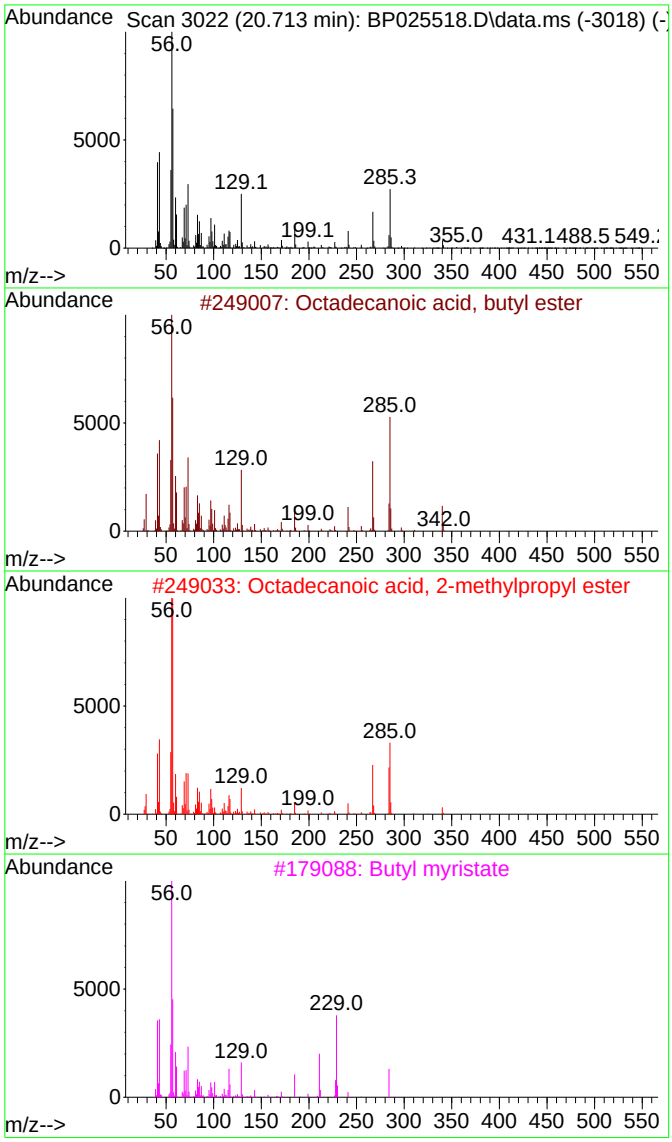
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

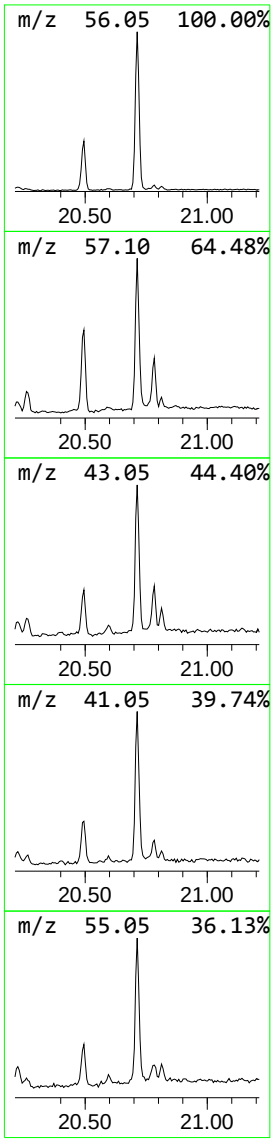
****

Peak Number 9 Octadecanoic acid, butyl ester Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.713	7.14 ng	863099	Chrysene-d12	21.636

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanoic acid, butyl ester	340	C22H44O2	000123-95-5	99
2	Octadecanoic acid, 2-methylpropy...	340	C22H44O2	000646-13-9	89
3	Butyl myristate	284	C18H36O2	000110-36-1	50
4	Docosanoic acid, isobutyl ester	396	C26H52O2	1000405-17-1	43
5	Piperidin-4-carboxylic acid	129	C6H11NO2	000498-94-2	38





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ClientSampleId :
84SB-E

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

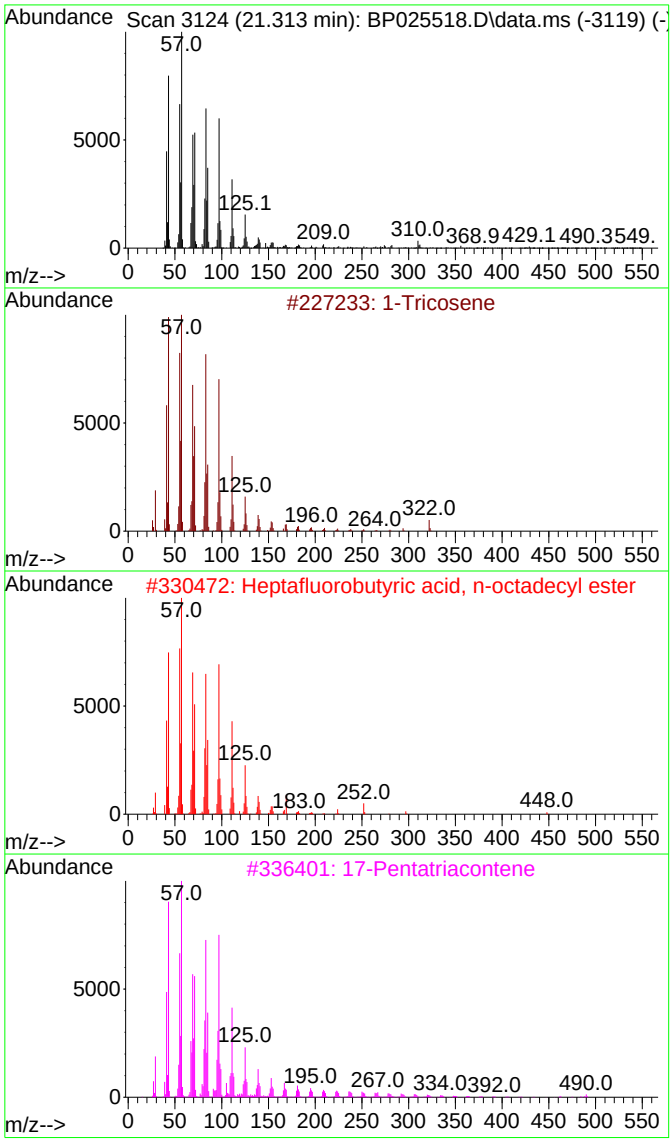
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

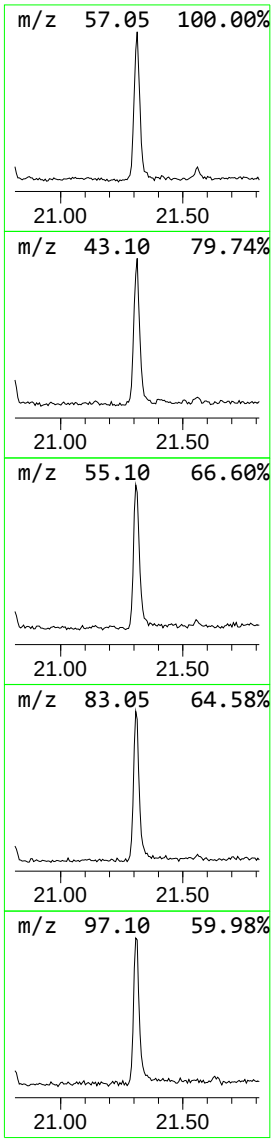
****

Peak Number 10 1-Tricosene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.313	6.85 ng	827965	Chrysene-d12	21.636

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Tricosene	322	C23H46	018835-32-0	95
2	Heptafluorobutyric acid, n-octad...	466	C22H37F7O2	000400-57-7	94
3	17-Pentatriacontene	491	C35H70	006971-40-0	94
4	Pentadecafluorooctanoic acid, oc...	666	C26H37F15O2	1000406-04-8	94
5	1-Hexacosene	364	C26H52	018835-33-1	93





Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025518.D
Acq On : 20 Aug 2025 22:32
Operator : CG/JU
Sample : Q2819-09
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
84SB-E

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

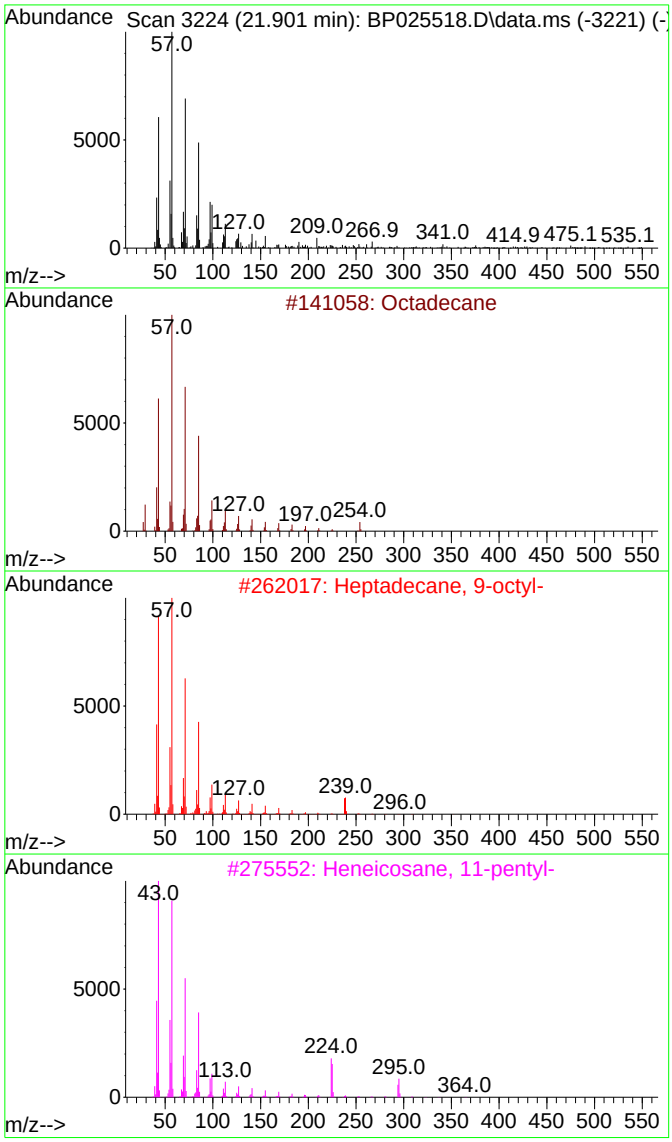
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

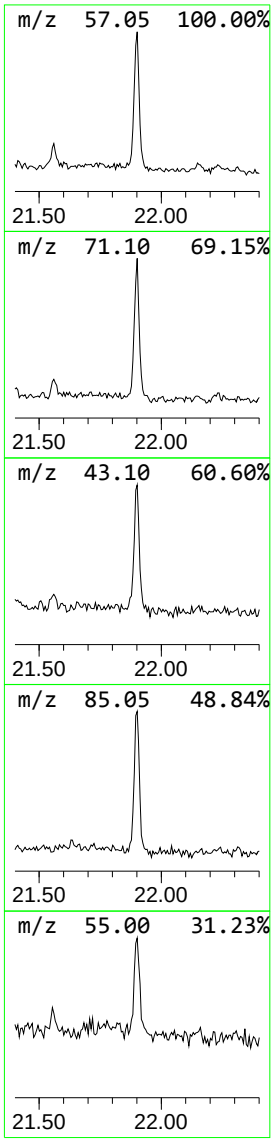
****

Peak Number 11 Octadecane Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.901	2.07 ng	250898	Chrysene-d12	21.636

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecane	254	C18H38	000593-45-3	89
2	Heptadecane, 9-octyl-	352	C25H52	007225-64-1	89
3	Heneicosane, 11-pentyl-	366	C26H54	014739-72-1	86
4	Docosane, 11-butyl-	366	C26H54	013475-76-8	86
5	Tetracosane	338	C24H50	000646-31-1	76





Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025518.D
Acq On : 20 Aug 2025 22:32
Operator : CG/JU
Sample : Q2819-09
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
84SB-E

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

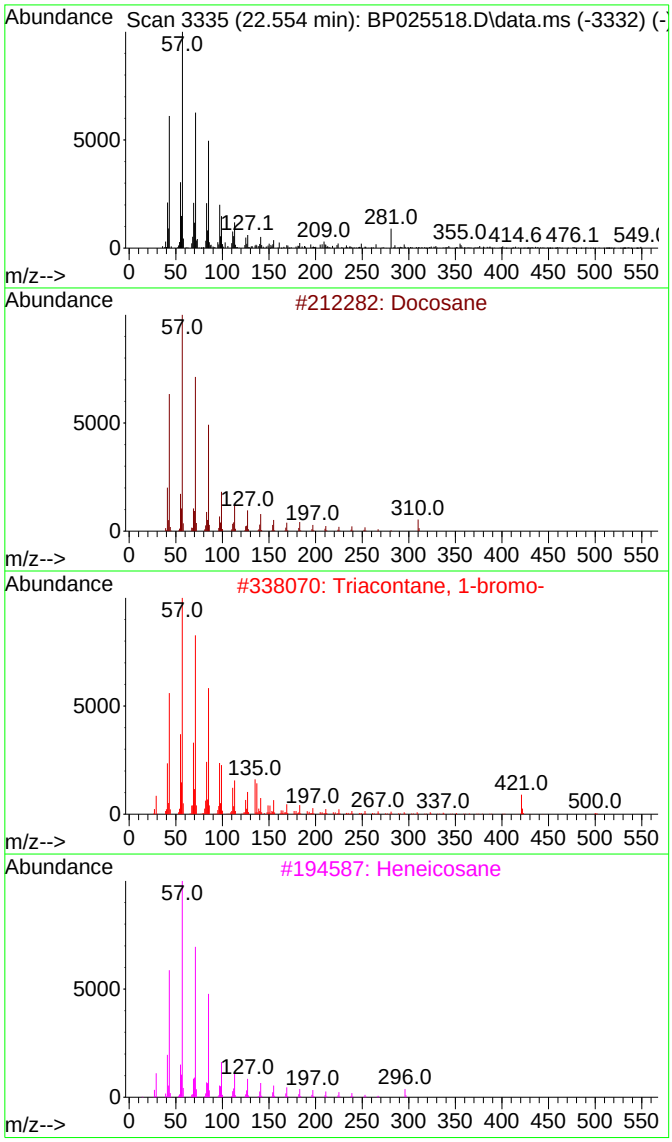
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

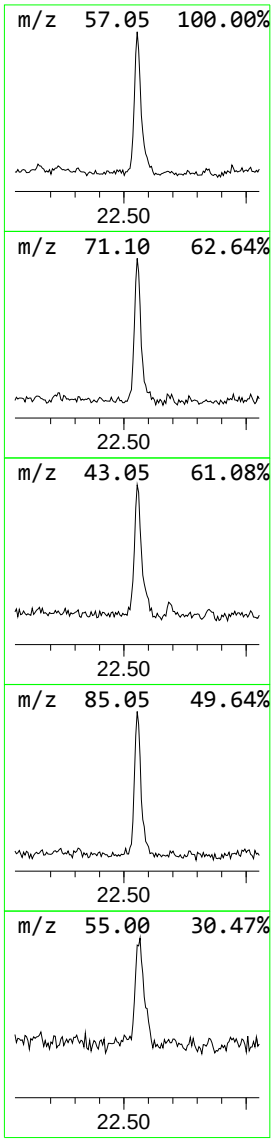
****

Peak Number 12 Docosane Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.554	3.19 ng	385776	Chrysene-d12	21.636

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Docosane	310	C22H46	000629-97-0	93
2	Triacontane, 1-bromo-	500	C30H61Br	004209-22-7	91
3	Heneicosane	296	C21H44	000629-94-7	91
4	Tetratriacontane, 17-hexadecyl-	703	C50H102	055256-07-0	90
5	Hentriacontane	437	C31H64	000630-04-6	90





Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025518.D
Acq On : 20 Aug 2025 22:32
Operator : CG/JU
Sample : Q2819-09
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
84SB-E

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.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...	3.043	35.5	ng	1723260	1	7.784	971840	20.0
2-Pentanone, 4-...	4.943	6.1	ng	294684	1	7.784	971840	20.0
Benzophenone	15.778	5.8	ng	489796	3	14.401	1690990	20.0
n-Hexadecanoic ...	18.137	6.2	ng	627821	4	17.195	2038800	20.0
Hexadecanoic ac...	19.366	3.9	ng	392986	4	17.195	2038800	20.0
Octadecanoic acid	19.460	2.4	ng	294323	5	21.636	2419090	20.0
Hexadecanoic ac...	19.619	8.5	ng	1032860	5	21.636	2419090	20.0
Octadecanoic ac...	20.495	2.2	ng	265347	5	21.636	2419090	20.0
Octadecanoic ac...	20.713	7.1	ng	863099	5	21.636	2419090	20.0
1-Tricosene	21.313	6.8	ng	827965	5	21.636	2419090	20.0
Octadecane	21.901	2.1	ng	250898	5	21.636	2419090	20.0
Docosane	22.554	3.2	ng	385776	5	21.636	2419090	20.0

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	84SB-S	SDG No.:	Q2819
Lab Sample ID:	Q2819-10	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	92.3
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP025534.D	1	08/15/25 08:25	08/21/25 10:50	PB169259

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
100-52-7	Benzaldehyde	290	U	170	290	360	ug/Kg
108-95-2	Phenol	140	U	23.9	140	180	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	140	U	26.3	140	180	ug/Kg
95-57-8	2-Chlorophenol	140	U	26.4	140	180	ug/Kg
95-48-7	2-Methylphenol	140	U	32.3	140	180	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	140	U	40.5	140	180	ug/Kg
98-86-2	Acetophenone	140	U	31.9	140	180	ug/Kg
65794-96-9	3+4-Methylphenols	290	U	44.4	290	360	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	86.5	U	51.2	86.5	86.5	ug/Kg
67-72-1	Hexachloroethane	140	U	19.0	140	180	ug/Kg
98-95-3	Nitrobenzene	140	U	19.8	140	180	ug/Kg
78-59-1	Isophorone	140	U	35.5	140	180	ug/Kg
88-75-5	2-Nitrophenol	140	U	62.9	140	180	ug/Kg
105-67-9	2,4-Dimethylphenol	140	U	70.0	140	180	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	140	U	33.3	140	180	ug/Kg
120-83-2	2,4-Dichlorophenol	140	U	30.6	140	180	ug/Kg
91-20-3	Naphthalene	140	U	24.5	140	180	ug/Kg
106-47-8	4-Chloroaniline	140	U	38.3	140	180	ug/Kg
87-68-3	Hexachlorobutadiene	140	U	27.3	140	180	ug/Kg
105-60-2	Caprolactam	290	U	56.3	290	360	ug/Kg
59-50-7	4-Chloro-3-methylphenol	140	U	31.0	140	180	ug/Kg
91-57-6	2-Methylnaphthalene	140	U	27.7	140	180	ug/Kg
77-47-4	Hexachlorocyclopentadiene	290	U	130	290	360	ug/Kg
88-06-2	2,4,6-Trichlorophenol	140	U	21.4	140	180	ug/Kg
95-95-4	2,4,5-Trichlorophenol	140	U	31.5	140	180	ug/Kg
92-52-4	1,1-Biphenyl	140	U	23.6	140	180	ug/Kg
91-58-7	2-Chloronaphthalene	140	U	24.3	140	180	ug/Kg
88-74-4	2-Nitroaniline	140	U	52.0	140	180	ug/Kg
131-11-3	Dimethylphthalate	140	U	29.3	140	180	ug/Kg

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Fax : 908 789 8922

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	84SB-S	SDG No.:	Q2819
Lab Sample ID:	Q2819-10	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	92.3
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP025534.D	1	08/15/25 08:25	08/21/25 10:50	PB169259

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	140	U	31.2	140	180	ug/Kg
606-20-2	2,6-Dinitrotoluene	140	U	36.3	140	180	ug/Kg
99-09-2	3-Nitroaniline	140	U	49.7	140	180	ug/Kg
83-32-9	Acenaphthene	140	U	23.0	140	180	ug/Kg
51-28-5	2,4-Dinitrophenol	290	U	250	290	360	ug/Kg
100-02-7	4-Nitrophenol	290	U	120	290	360	ug/Kg
132-64-9	Dibenzofuran	140	U	24.5	140	180	ug/Kg
121-14-2	2,4-Dinitrotoluene	140	U	54.2	140	180	ug/Kg
84-66-2	Diethylphthalate	160	J	30.6	140	180	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	140	U	28.9	140	180	ug/Kg
86-73-7	Fluorene	140	U	27.3	140	180	ug/Kg
100-01-6	4-Nitroaniline	140	U	69.4	140	180	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	290	U	110	290	360	ug/Kg
86-30-6	n-Nitrosodiphenylamine	140	U	35.6	140	180	ug/Kg
101-55-3	4-Bromophenyl-phenylether	140	U	30.0	140	180	ug/Kg
118-74-1	Hexachlorobenzene	140	U	27.3	140	180	ug/Kg
1912-24-9	Atrazine	140	U	36.8	140	180	ug/Kg
87-86-5	Pentachlorophenol	290	U	55.5	290	360	ug/Kg
85-01-8	Phenanthrene	73.0	J	22.6	140	180	ug/Kg
120-12-7	Anthracene	140	U	36.0	140	180	ug/Kg
86-74-8	Carbazole	140	U	33.7	140	180	ug/Kg
84-74-2	Di-n-butylphthalate	95.7	J	51.8	140	180	ug/Kg
206-44-0	Fluoranthene	160	J	32.4	140	180	ug/Kg
129-00-0	Pyrene	150	J	38.9	140	180	ug/Kg
85-68-7	Butylbenzylphthalate	140	U	77.2	140	180	ug/Kg
91-94-1	3,3-Dichlorobenzidine	290	U	39.7	290	360	ug/Kg
56-55-3	Benzo(a)anthracene	81.2	J	24.9	140	180	ug/Kg
218-01-9	Chrysene	100	J	21.5	140	180	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	140	U	64.0	140	180	ug/Kg
117-84-0	Di-n-octyl phthalate	290	U	93.8	290	360	ug/Kg
205-99-2	Benzo(b)fluoranthene	130	J	20.5	140	180	ug/Kg

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Fax : 908 789 8922

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	84SB-S	SDG No.:	Q2819
Lab Sample ID:	Q2819-10	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	92.3
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP025534.D	1	08/15/25 08:25	08/21/25 10:50	PB169259

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	140	U	24.2	140	180	ug/Kg
50-32-8	Benzo(a)pyrene	88.2	J	31.9	140	180	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	140	U	31.5	140	180	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	140	U	29.6	140	180	ug/Kg
191-24-2	Benzo(g,h,i)perylene	140	U	27.8	140	180	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	140	U	27.7	140	180	ug/Kg
123-91-1	1,4-Dioxane	140	U	48.9	140	180	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	140	U	29.6	140	180	ug/Kg
SURROGATES							
367-12-4	2-Fluorophenol	53.7		35 - 115		36%	SPK: 150
13127-88-3	Phenol-d6	53.3		34 - 127		36%	SPK: 150
4165-60-0	Nitrobenzene-d5	35.9	*	37 - 122		36%	SPK: 100
321-60-8	2-Fluorobiphenyl	34.1	*	44 - 115		34%	SPK: 100
118-79-6	2,4,6-Tribromophenol	51.2	*	39 - 132		34%	SPK: 150
1718-51-0	Terphenyl-d14	31.4	*	54 - 127		31%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	186000	7.784				
1146-65-2	Naphthalene-d8	731000	10.549				
15067-26-2	Acenaphthene-d10	449000	14.395				
1517-22-2	Phenanthrene-d10	879000	17.201				
1719-03-5	Chrysene-d12	948000	21.648				
1520-96-3	Perylene-d12	1100000	25.012				
TENTATIVE IDENTIFIED COMPOUNDS							
000994-05-8	Butane, 2-methoxy-2-methyl-	790	J			3.04	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	120	AB			4.94	ug/Kg
000119-61-9	Benzophenone	290	J			15.8	ug/Kg
000057-11-4	Octadecanoic acid	400	J			15.8	ug/Kg
082304-66-3	7,9-Di-tert-butyl-1-oxaspiro(4,5)d	97.3	J			17.9	ug/Kg
000057-10-3	n-Hexadecanoic acid	1400	J			18.1	ug/Kg
001002-84-2	Pentadecanoic acid	540	J			19.5	ug/Kg

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Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	84SB-S	SDG No.:	Q2819
Lab Sample ID:	Q2819-10	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	92.3
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP025534.D	1	08/15/25 08:25	08/21/25 10:50	PB169259

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
1000377-93-5	Phthalic acid, di(2-propylpentyl)	150	J			20.2	ug/Kg
077899-03-7	1-Heneicosyl formate	120	J			21.3	ug/Kg

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025534.D
Acq On : 21 Aug 2025 10:50
Operator : CG/JU
Sample : Q2819-10
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
84SB-S

Quant Time: Aug 21 13:05:39 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration

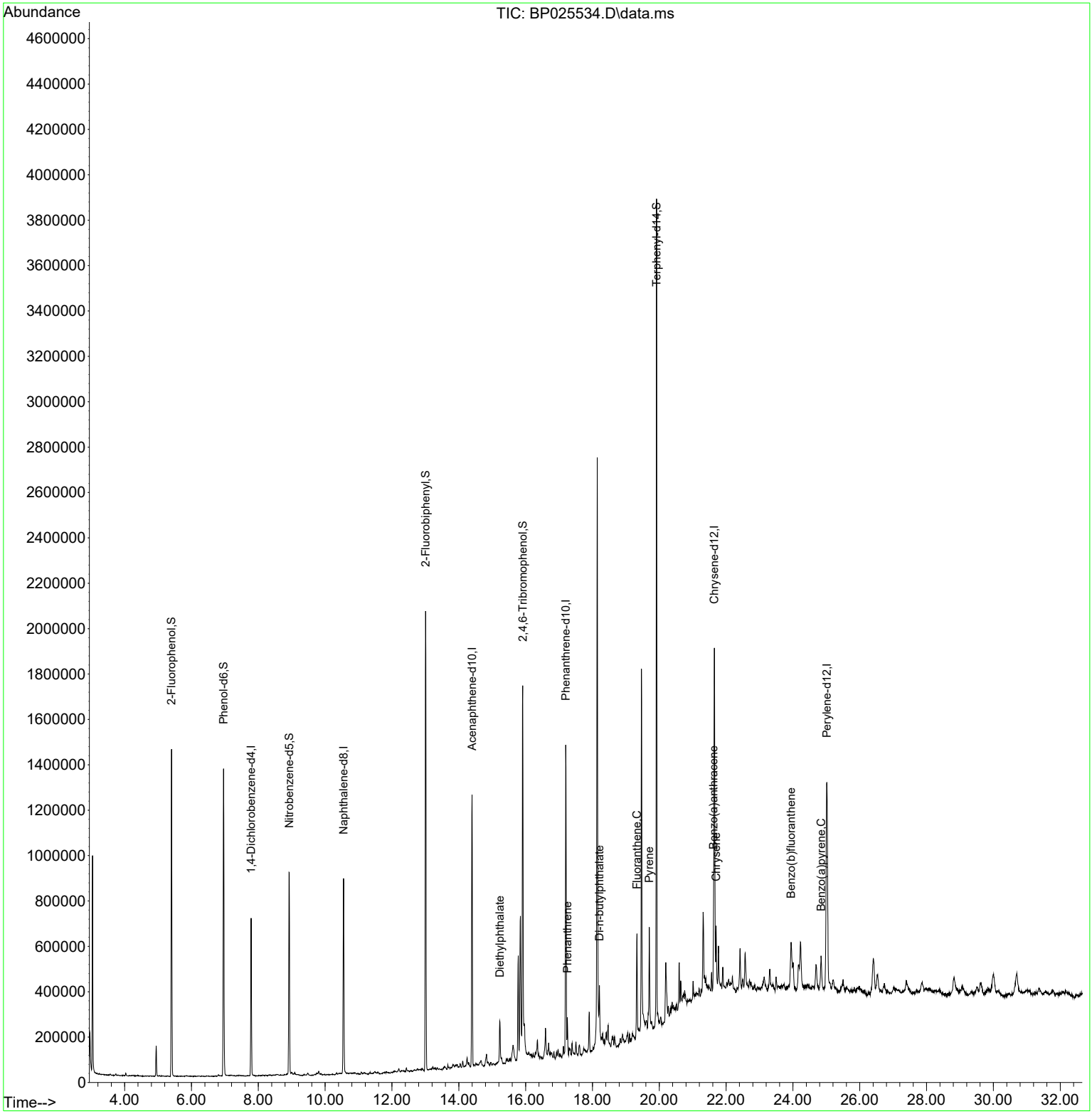
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.784	152	186498	20.000	ng		-0.01
21) Naphthalene-d8	10.549	136	731492	20.000	ng		-0.01
39) Acenaphthene-d10	14.395	164	448798	20.000	ng		-0.01
64) Phenanthrene-d10	17.201	188	879089	20.000	ng		0.00
76) Chrysene-d12	21.648	240	947974	20.000	ng		0.00
86) Perylene-d12	25.012	264	1103815	20.000	ng		-0.02
System Monitoring Compounds							
5) 2-Fluorophenol	5.402	112	602725	53.671	ng		0.00
7) Phenol-d6	6.960	99	767072	53.277	ng		0.00
23) Nitrobenzene-d5	8.925	82	519692	35.939	ng		-0.01
42) 2,4,6-Tribromophenol	15.913	330	309459	51.228	ng		0.00
45) 2-Fluorobiphenyl	13.007	172	1118551	34.062	ng		-0.01
79) Terphenyl-d14	19.919	244	1627060	31.402	ng		0.00
Target Compounds							Qvalue
60) Diethylphthalate	15.231	149	147412	4.414	ng		97
71) Phenanthrene	17.248	178	97907	2.027	ng		99
74) Di-n-butylphthalate	18.207	149	151766	2.656	ng		99
75) Fluoranthene	19.330	202	263702	4.578	ng		99
78) Pyrene	19.701	202	252098	4.091	ng		99
81) Benzo(a)anthracene	21.624	228	140854	2.253	ng		93
83) Chrysene	21.701	228	168589	2.879	ng		99
88) Benzo(b)fluoranthene	23.948	252	235399	3.617	ng	#	96
90) Benzo(a)pyrene	24.842	252	155158	2.449	ng	#	95

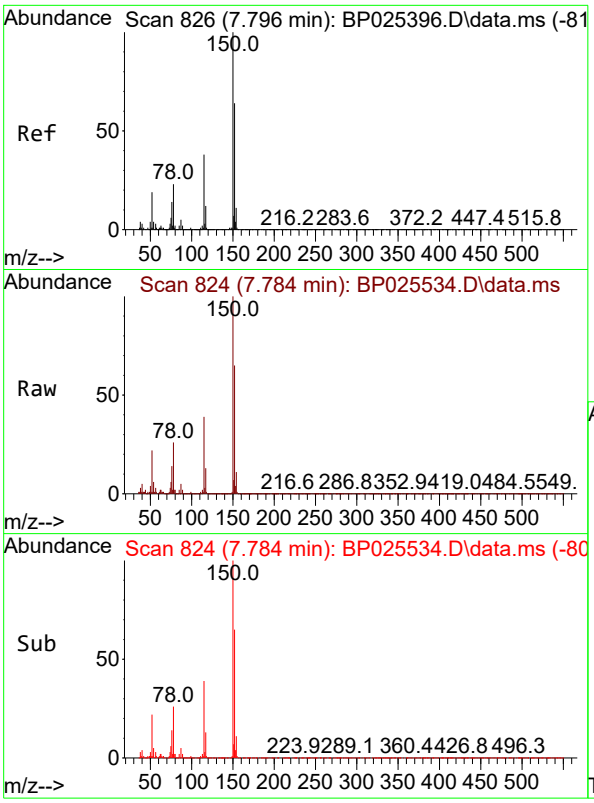
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025534.D
Acq On : 21 Aug 2025 10:50
Operator : CG/JU
Sample : Q2819-10
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
84SB-S

Quant Time: Aug 21 13:05:39 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration



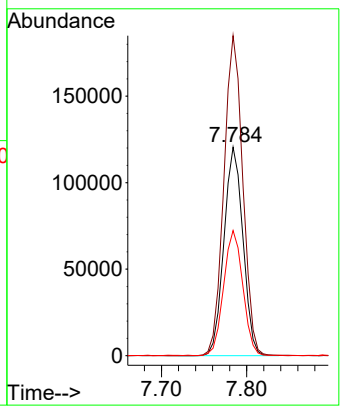


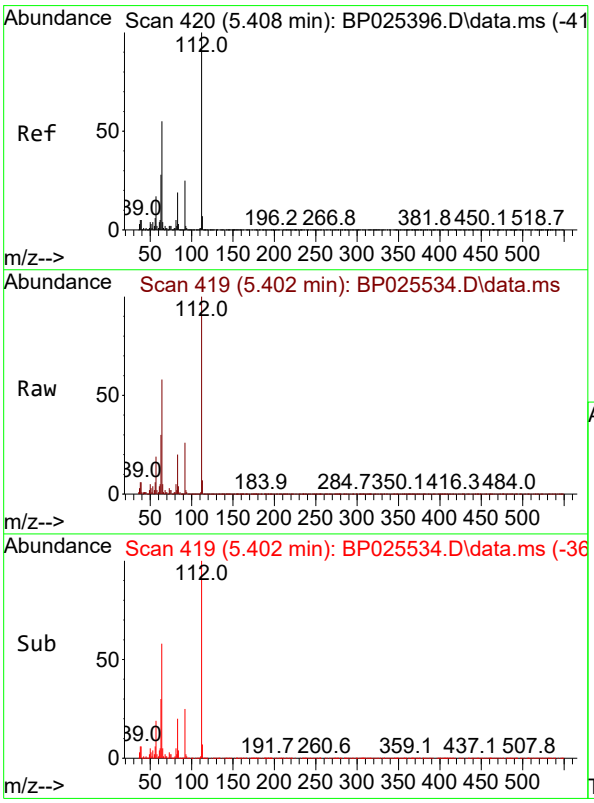
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.784 min Scan# 8
Delta R.T. -0.012 min
Lab File: BP025534.D
Acq: 21 Aug 2025 10:50

Instrument :
BNA_P
ClientSampleId :
84SB-S

Tgt Ion:152 Resp: 186498

Ion	Ratio	Lower	Upper
152	100		
150	153.5	125.9	188.9
115	60.0	48.5	72.7

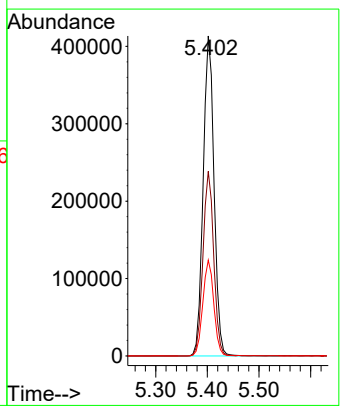


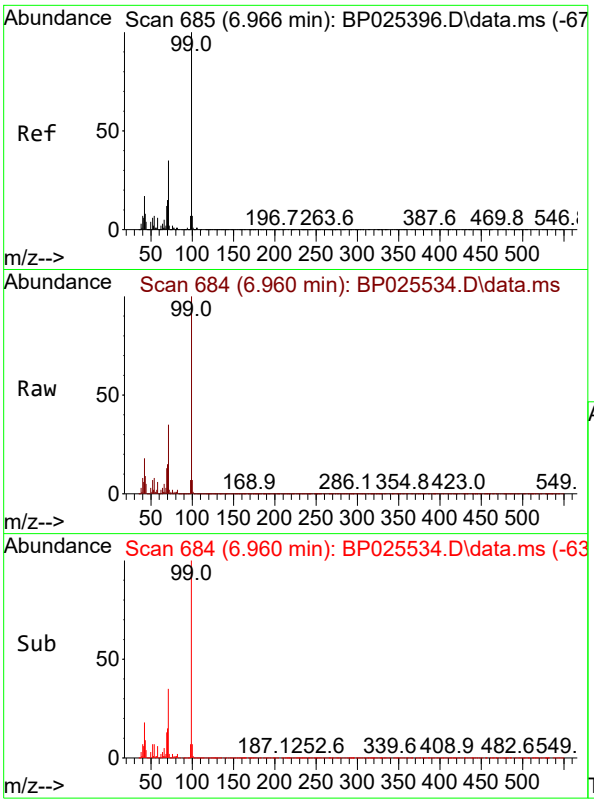


#5
2-Fluorophenol
Concen: 53.671 ng
RT: 5.402 min Scan# 419
Delta R.T. -0.006 min
Lab File: BP025534.D
Acq: 21 Aug 2025 10:50

Tgt Ion:112 Resp: 602725

Ion	Ratio	Lower	Upper
112	100		
64	57.7	43.8	65.8
63	30.0	22.7	34.1



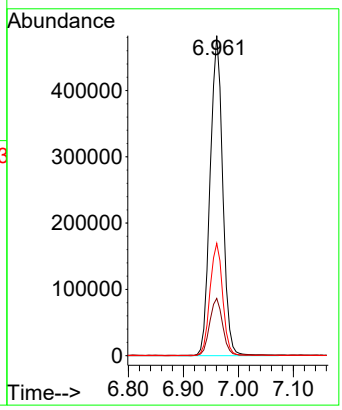


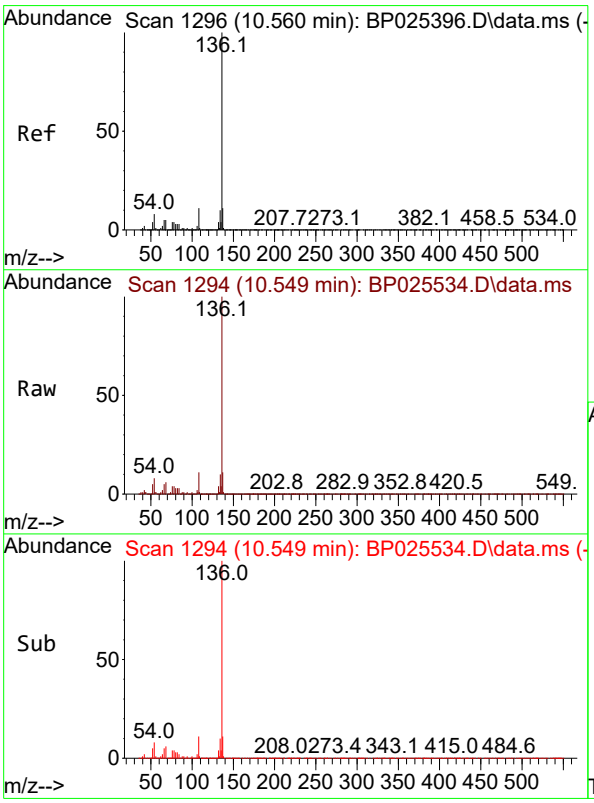
#7
Phenol-d6
Concen: 53.277 ng
RT: 6.960 min Scan# 6
Delta R.T. -0.006 min
Lab File: BP025534.D
Acq: 21 Aug 2025 10:50

Instrument :
BNA_P
ClientSampleId :
84SB-S

Tgt Ion: 99 Resp: 767072

Ion	Ratio	Lower	Upper
99	100		
42	17.9	13.7	20.5
71	35.1	28.2	42.4

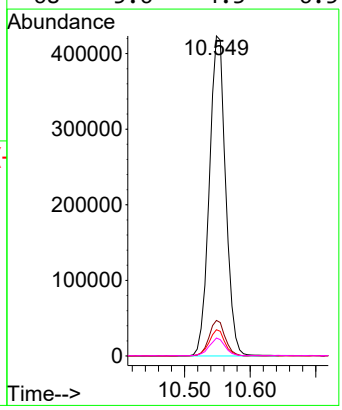


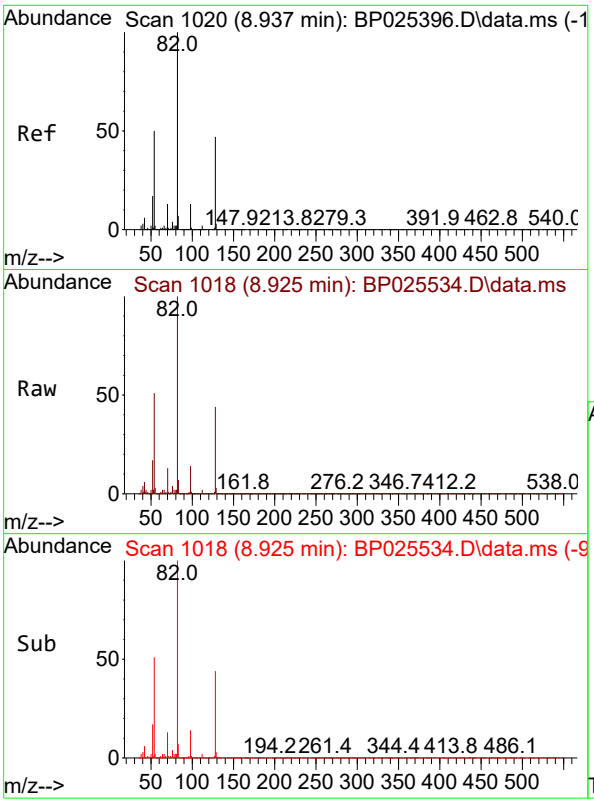


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.549 min Scan# 1294
Delta R.T. -0.012 min
Lab File: BP025534.D
Acq: 21 Aug 2025 10:50

Tgt Ion:136 Resp: 731492

Ion	Ratio	Lower	Upper
136	100		
137	11.1	9.2	13.8
54	8.2	6.0	9.0
68	5.6	4.3	6.5



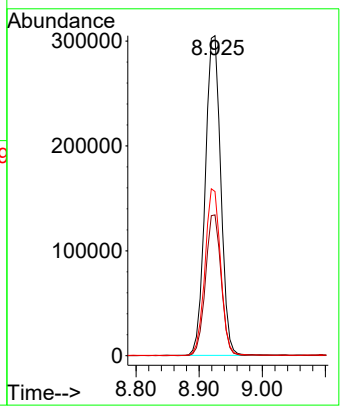


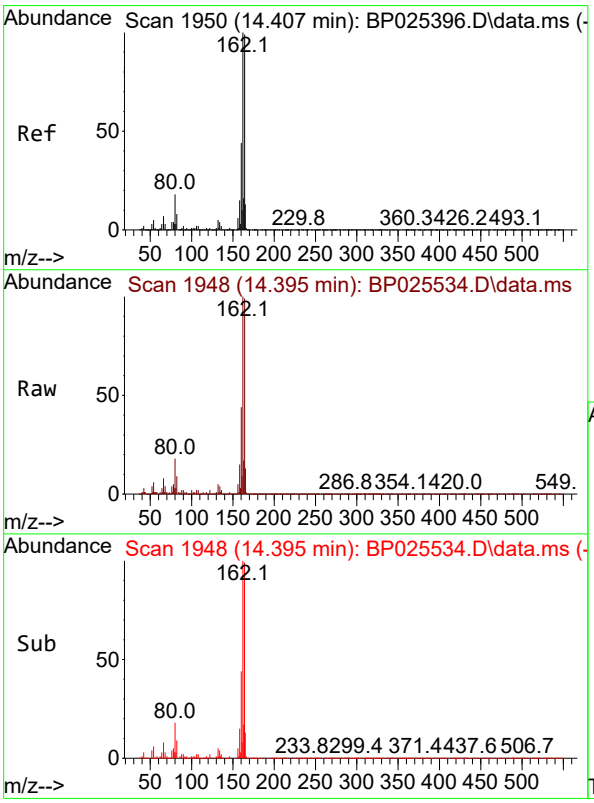
#23
Nitrobenzene-d5
Concen: 35.939 ng
RT: 8.925 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP025534.D
Acq: 21 Aug 2025 10:50

Instrument :
BNA_P
ClientSampleId :
84SB-S

Tgt Ion: 82 Resp: 519692

Ion	Ratio	Lower	Upper
82	100		
128	44.0	37.7	56.5
54	51.3	39.8	59.6

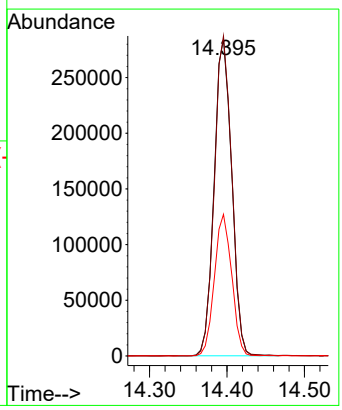


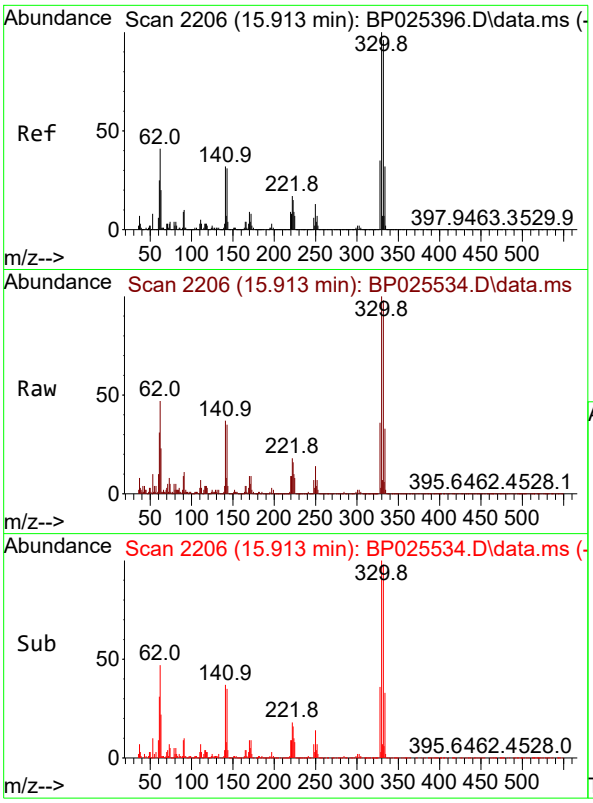


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.395 min Scan# 1948
Delta R.T. -0.012 min
Lab File: BP025534.D
Acq: 21 Aug 2025 10:50

Tgt Ion:164 Resp: 448798

Ion	Ratio	Lower	Upper
164	100		
162	101.1	81.0	121.6
160	44.7	35.4	53.2



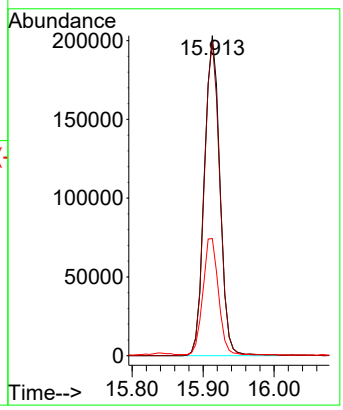


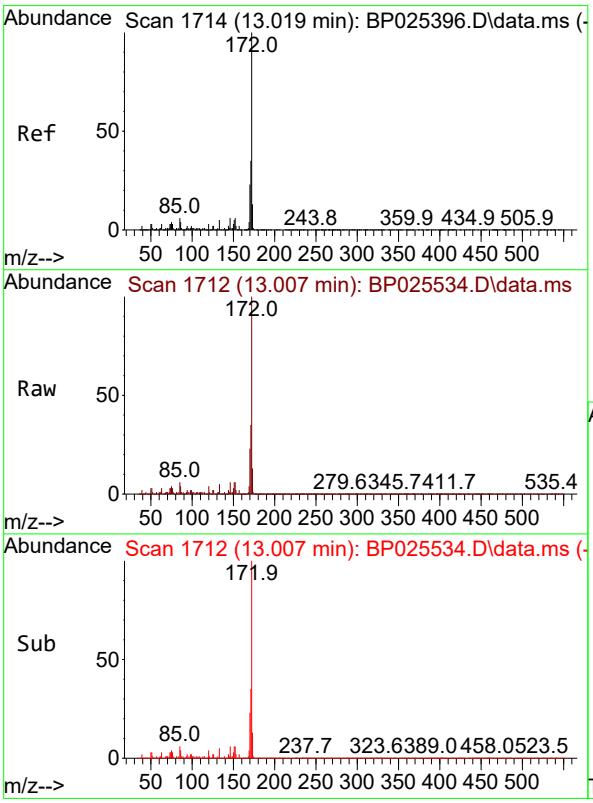
#42
2,4,6-Tribromophenol
Concen: 51.228 ng
RT: 15.913 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP025534.D
Acq: 21 Aug 2025 10:50

Instrument :
BNA_P
ClientSampleId :
84SB-S

Tgt Ion:330 Resp: 309459

Ion	Ratio	Lower	Upper
330	100		
332	97.7	77.3	115.9
141	36.3	26.6	39.8

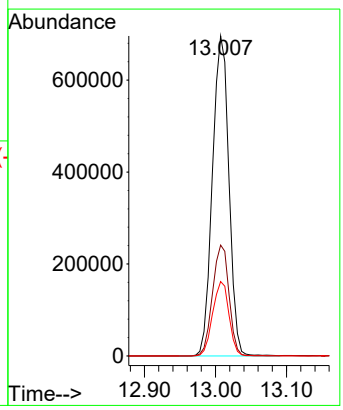


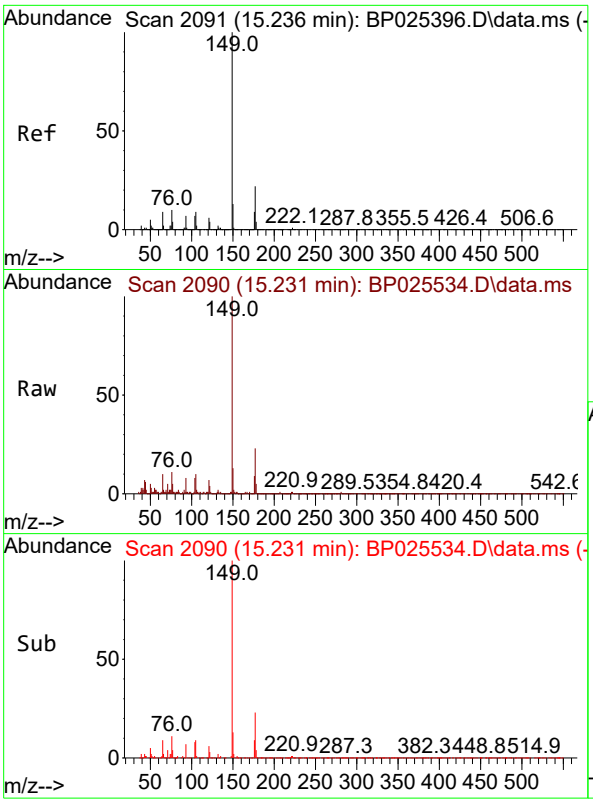


#45
2-Fluorobiphenyl
Concen: 34.062 ng
RT: 13.007 min Scan# 1712
Delta R.T. -0.012 min
Lab File: BP025534.D
Acq: 21 Aug 2025 10:50

Tgt Ion:172 Resp: 1118551

Ion	Ratio	Lower	Upper
172	100		
171	34.7	28.1	42.1
170	23.2	18.6	28.0



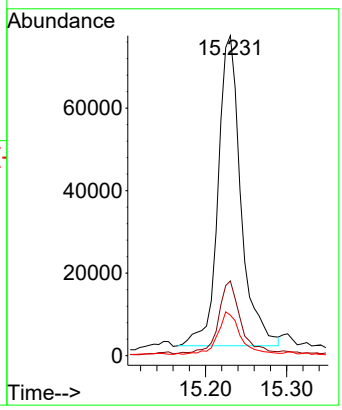


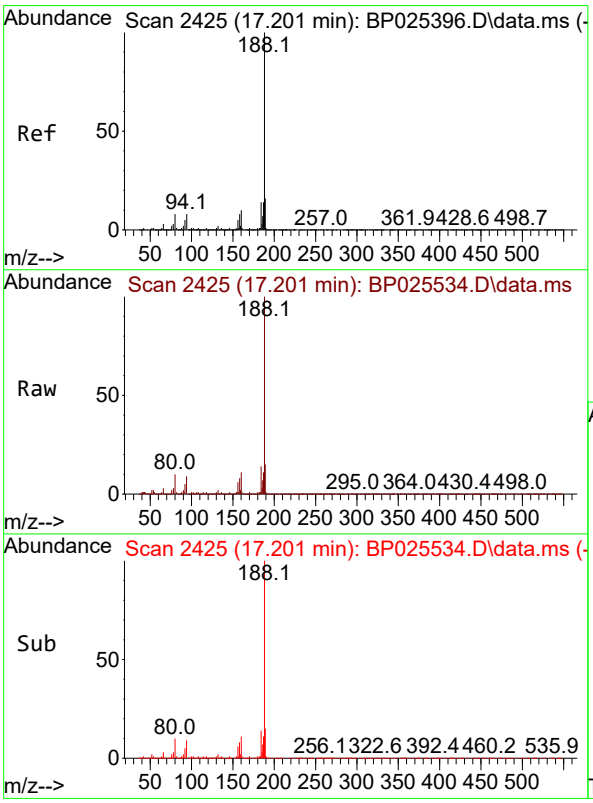
#60
Diethylphthalate
Concen: 4.414 ng
RT: 15.231 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP025534.D
Acq: 21 Aug 2025 10:50

Instrument :
BNA_P
ClientSampleId :
84SB-S

Tgt Ion:149 Resp: 147412

Ion	Ratio	Lower	Upper
149	100		
177	23.4	17.3	25.9
150	12.7	10.3	15.5

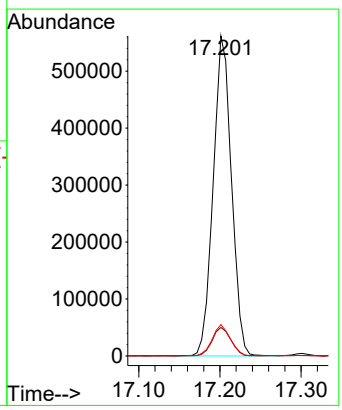


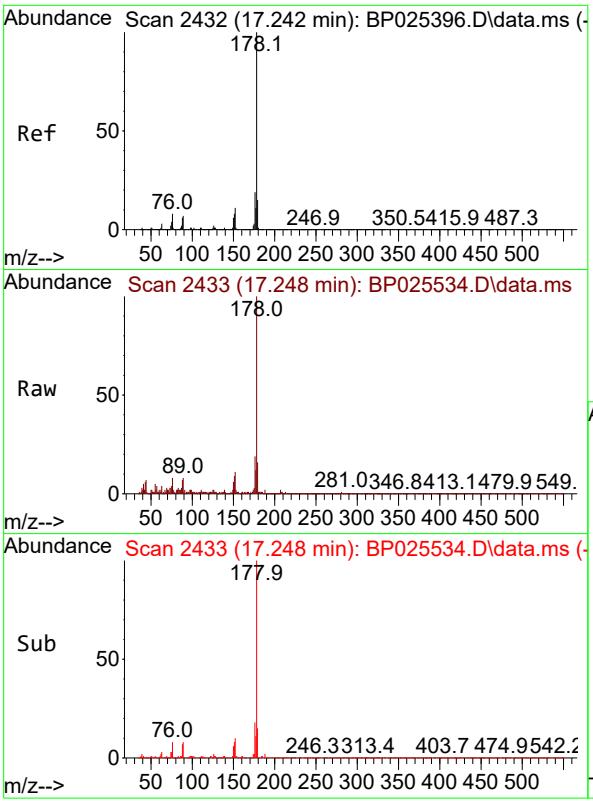


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.201 min Scan# 2425
Delta R.T. 0.000 min
Lab File: BP025534.D
Acq: 21 Aug 2025 10:50

Tgt Ion:188 Resp: 879089

Ion	Ratio	Lower	Upper
188	100		
94	8.9	6.6	10.0
80	9.8	6.7	10.1



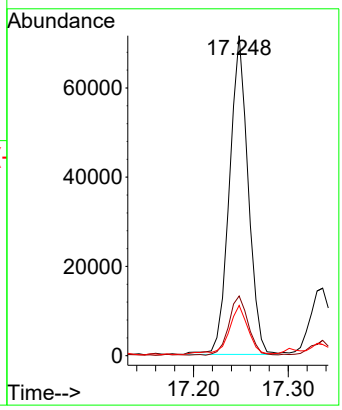


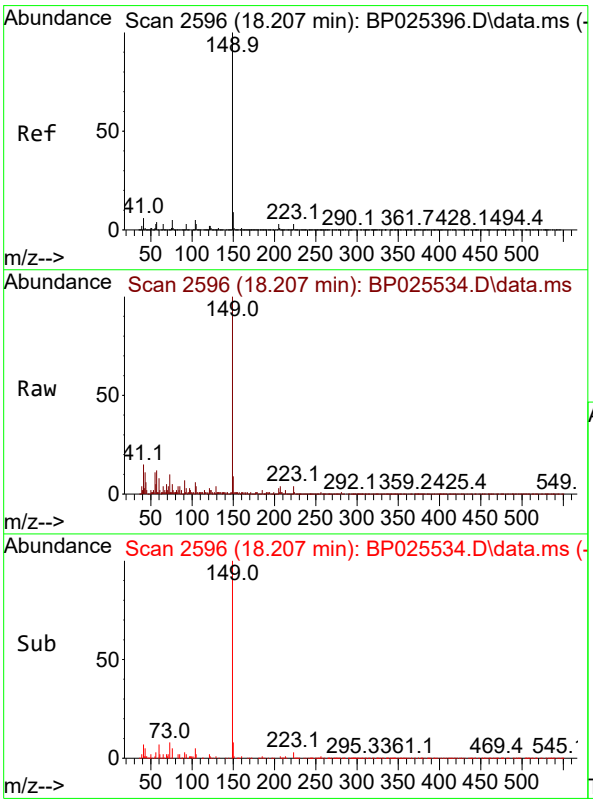
#71
Phenanthrene
Concen: 2.027 ng
RT: 17.248 min Scan# 24
Delta R.T. 0.006 min
Lab File: BP025534.D
Acq: 21 Aug 2025 10:50

Instrument :
BNA_P
ClientSampleId :
84SB-S

Tgt Ion:178 Resp: 97907

Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.5	23.3
179	15.7	12.2	18.4

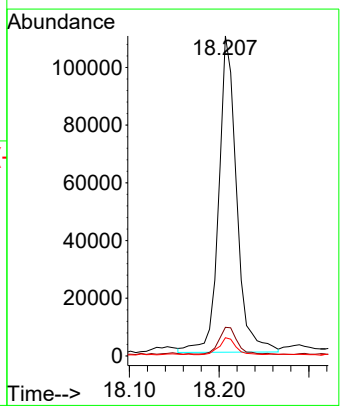


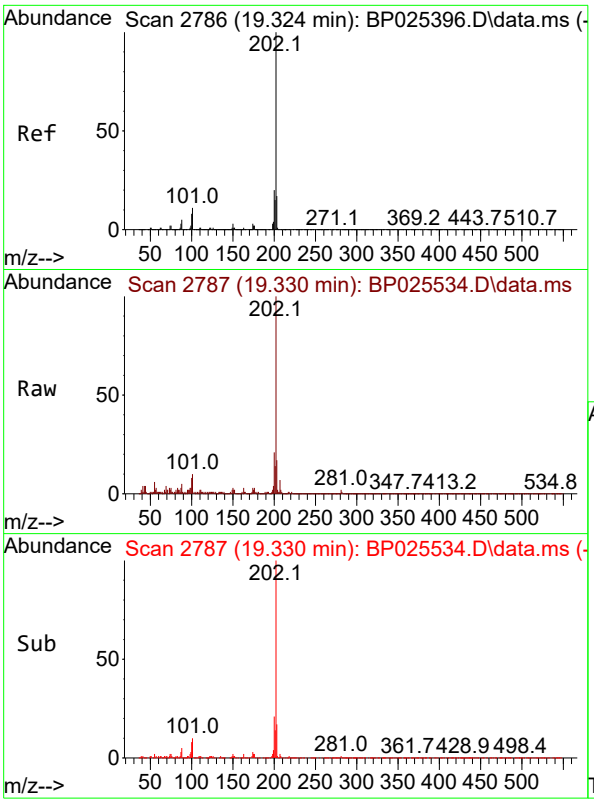


#74
Di-n-butylphthalate
Concen: 2.656 ng
RT: 18.207 min Scan# 2596
Delta R.T. 0.000 min
Lab File: BP025534.D
Acq: 21 Aug 2025 10:50

Tgt Ion:149 Resp: 151766

Ion	Ratio	Lower	Upper
149	100		
150	8.9	7.4	11.0
104	5.7	4.2	6.2



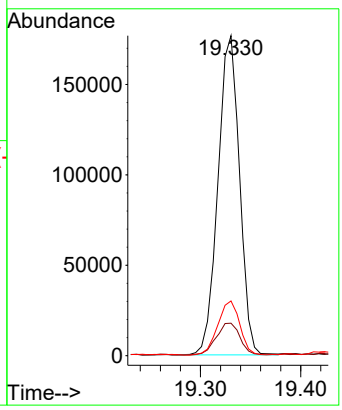


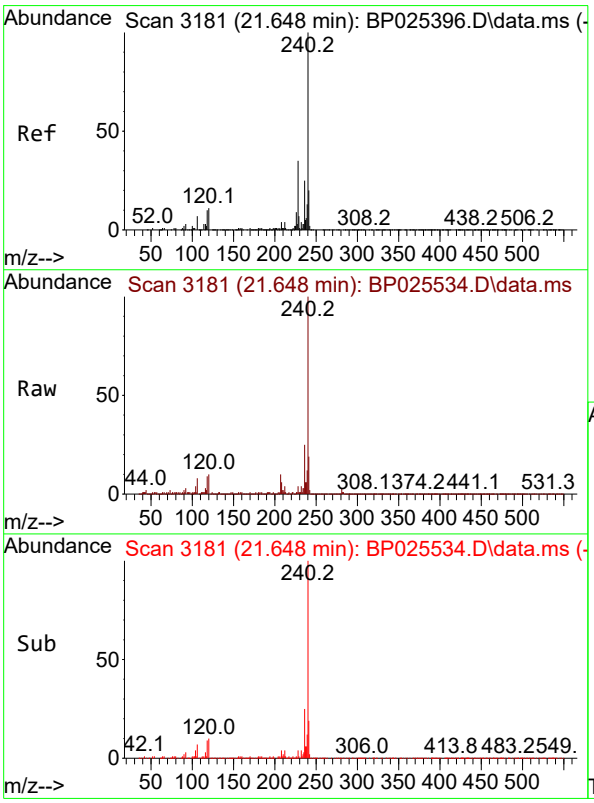
#75
Fluoranthene
Concen: 4.578 ng
RT: 19.330 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025534.D
Acq: 21 Aug 2025 10:50

Instrument :
BNA_P
ClientSampleId :
84SB-S

Tgt Ion:202 Resp: 263702

Ion	Ratio	Lower	Upper
202	100		
101	10.1	0.0	31.1
203	17.1	0.0	37.3

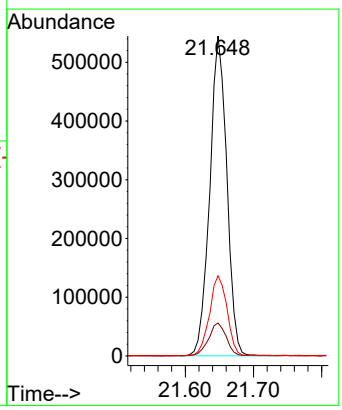


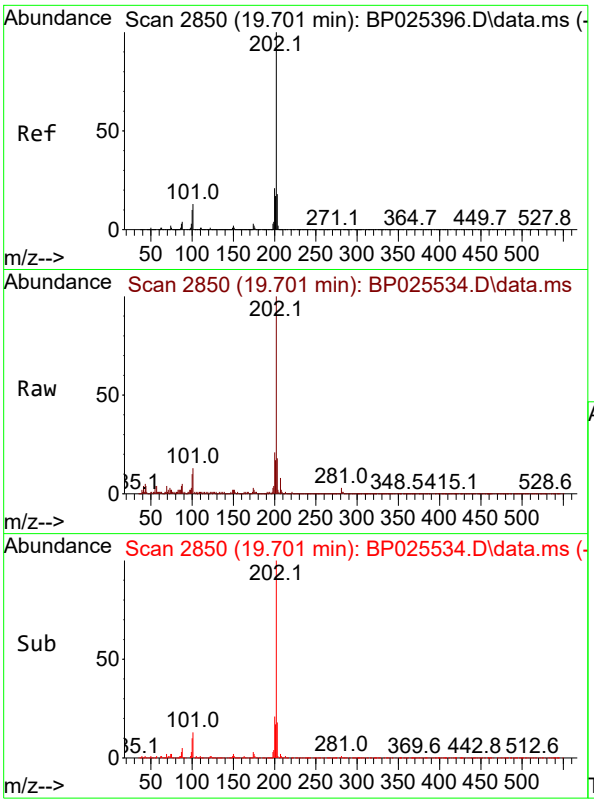


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.648 min Scan# 3181
Delta R.T. 0.000 min
Lab File: BP025534.D
Acq: 21 Aug 2025 10:50

Tgt Ion:240 Resp: 947974

Ion	Ratio	Lower	Upper
240	100		
120	10.3	8.9	13.3
236	25.0	19.8	29.8



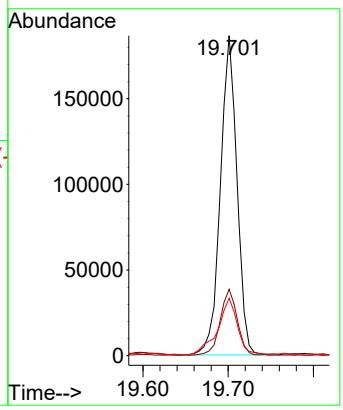


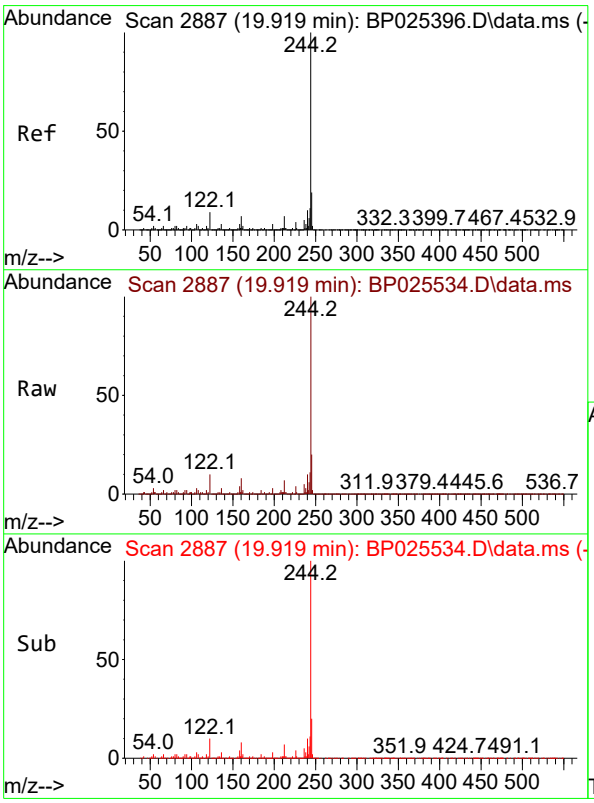
#78
Pyrene
Concen: 4.091 ng
RT: 19.701 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP025534.D
Acq: 21 Aug 2025 10:50

Instrument :
BNA_P
ClientSampleId :
84SB-S

Tgt Ion:202 Resp: 252098

Ion	Ratio	Lower	Upper
202	100		
200	20.8	16.9	25.3
203	18.0	14.2	21.2

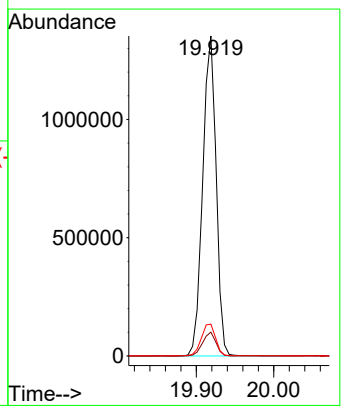


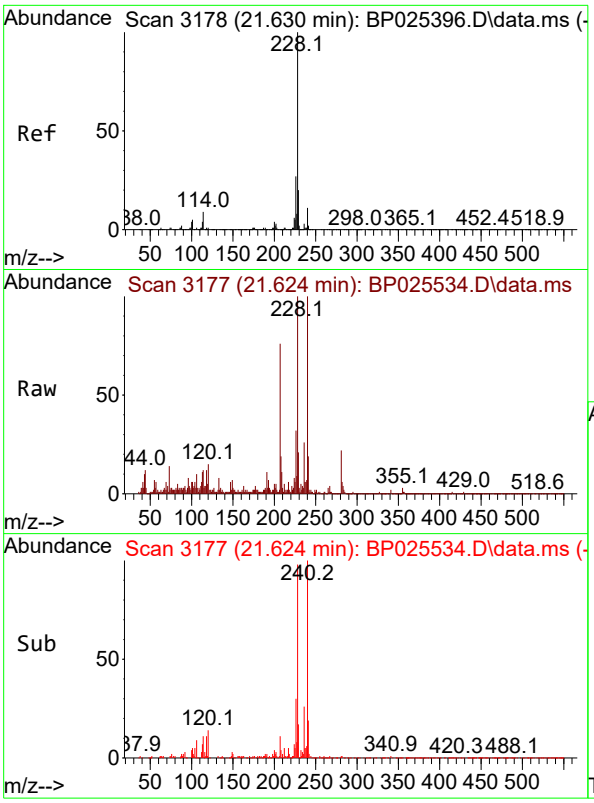


#79
Terphenyl-d14
Concen: 31.402 ng
RT: 19.919 min Scan# 2887
Delta R.T. 0.000 min
Lab File: BP025534.D
Acq: 21 Aug 2025 10:50

Tgt Ion:244 Resp: 1627060

Ion	Ratio	Lower	Upper
244	100		
212	7.4	5.8	8.6
122	9.9	7.4	11.2



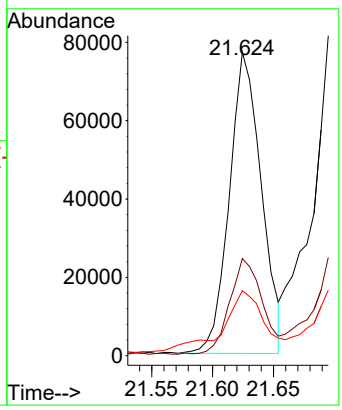


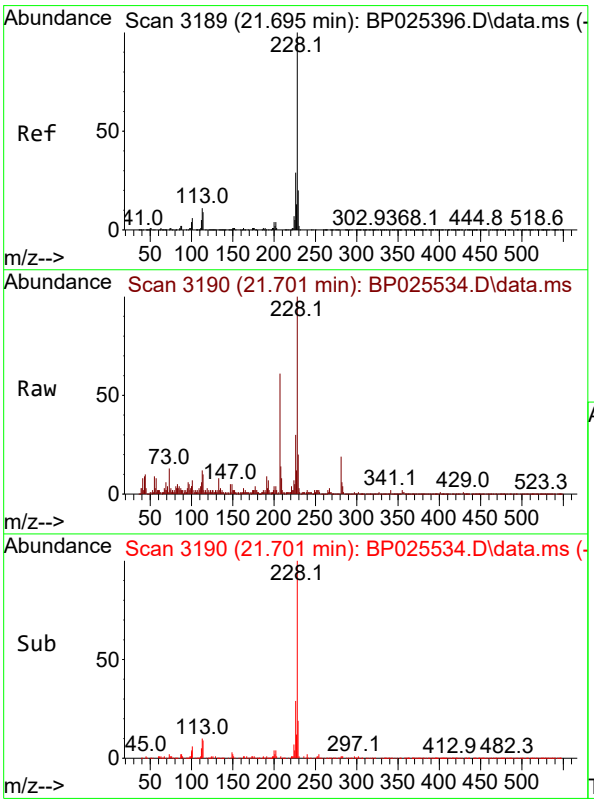
#81
Benzo(a)anthracene
Concen: 2.253 ng
RT: 21.624 min Scan# 3
Delta R.T. -0.006 min
Lab File: BP025534.D
Acq: 21 Aug 2025 10:50

Instrument :
BNA_P
ClientSampleId :
84SB-S

Tgt Ion:228 Resp: 140854

Ion	Ratio	Lower	Upper
228	100		
226	32.0	21.7	32.5
229	21.4	15.6	23.4

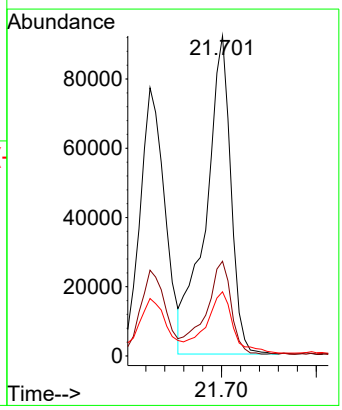


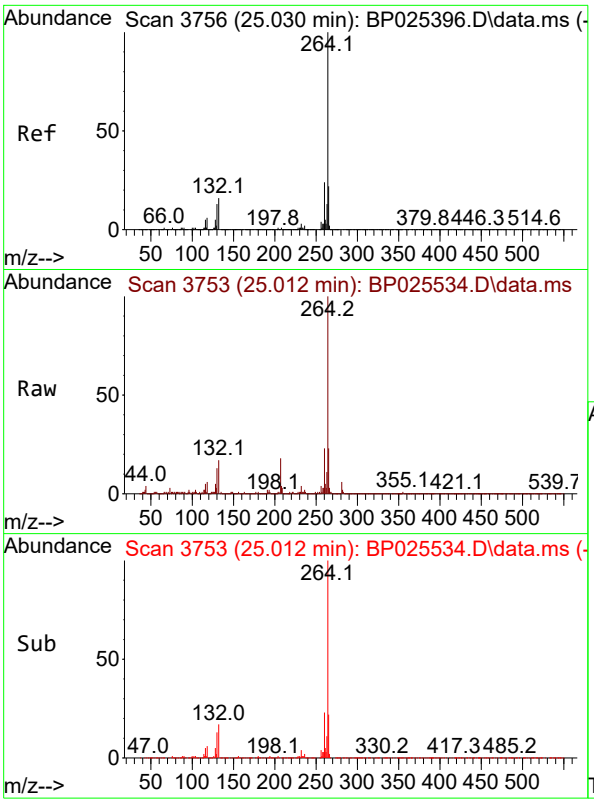


#83
Chrysene
Concen: 2.879 ng
RT: 21.701 min Scan# 3190
Delta R.T. 0.006 min
Lab File: BP025534.D
Acq: 21 Aug 2025 10:50

Tgt Ion:228 Resp: 168589

Ion	Ratio	Lower	Upper
228	100		
226	29.6	23.2	34.8
229	20.1	15.6	23.4



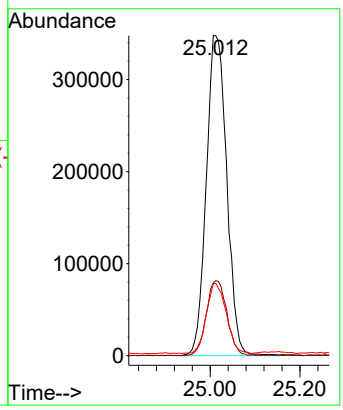


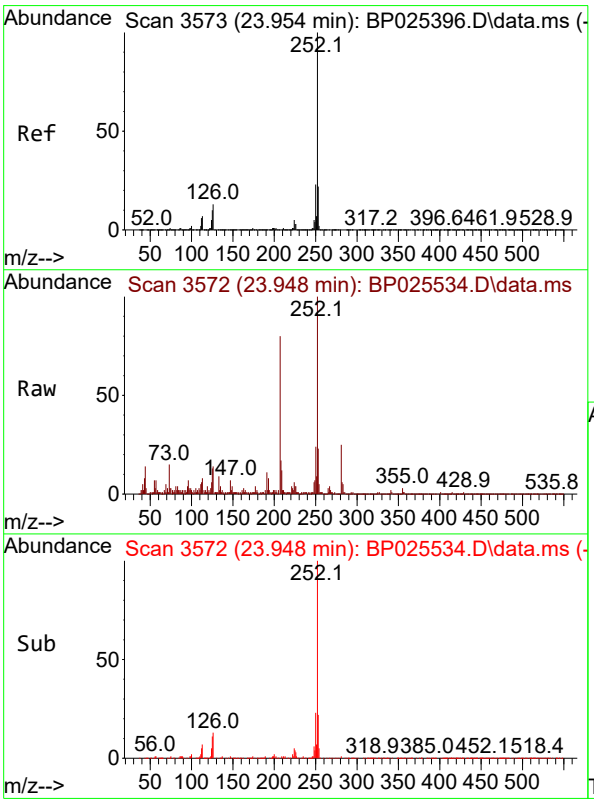
#86
Perylene-d12
Concen: 20.000 ng
RT: 25.012 min Scan# 3
Delta R.T. -0.018 min
Lab File: BP025534.D
Acq: 21 Aug 2025 10:50

Instrument :
BNA_P
ClientSampleId :
84SB-S

Tgt Ion:264 Resp: 1103815

Ion	Ratio	Lower	Upper
264	100		
260	23.5	19.3	28.9
265	22.6	17.4	26.0

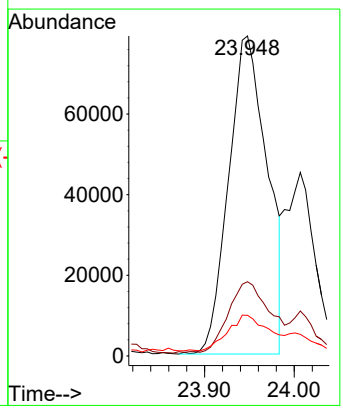


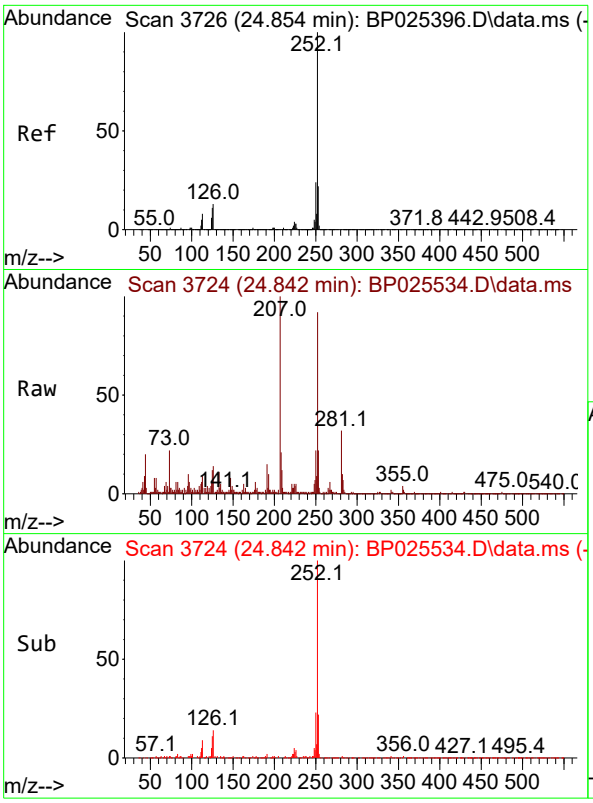


#88
Benzo(b)fluoranthene
Concen: 3.617 ng
RT: 23.948 min Scan# 3572
Delta R.T. -0.006 min
Lab File: BP025534.D
Acq: 21 Aug 2025 10:50

Tgt Ion:252 Resp: 235399

Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.7	26.5
125	12.7	7.9	11.9#



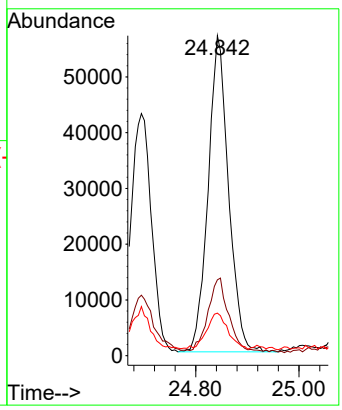


#90
Benzo(a)pyrene
Concen: 2.449 ng
RT: 24.842 min Scan# 3
Delta R.T. -0.012 min
Lab File: BP025534.D
Acq: 21 Aug 2025 10:50

Instrument :
BNA_P
ClientSampleId :
84SB-S

Tgt Ion:252 Resp: 155158

Ion	Ratio	Lower	Upper
252	100		
253	23.7	17.5	26.3
125	13.3	8.7	13.1#



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025534.D
Acq On : 21 Aug 2025 10:50
Operator : CG/JU
Sample : Q2819-10
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
84SB-S

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

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

Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BP025534.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.037	12	17	33	rVB	959436	1195617	27.43%	2.738%
2	4.943	335	341	347	rBV	133367	184315	4.23%	0.422%
3	5.402	412	419	429	rBV	1442517	2093157	48.02%	4.793%
4	6.961	676	684	695	rBV	1354440	2192220	50.29%	5.020%
5	7.784	817	824	833	rBV	694857	1092693	25.07%	2.502%
6	8.919	1010	1017	1026	rBV	889117	1527768	35.05%	3.498%
7	10.549	1286	1294	1302	rBV	859551	1487694	34.13%	3.407%
8	13.007	1705	1712	1721	rBV	2026212	3248945	74.53%	7.440%
9	14.113	1896	1900	1906	rBV2	26334	45590	1.05%	0.104%
10	14.395	1941	1948	1955	rBV	1199428	1902045	43.63%	4.356%
11	14.831	2013	2022	2029	rBV4	50203	134798	3.09%	0.309%
12	15.225	2083	2089	2097	rBV	180297	335599	7.70%	0.768%
13	15.778	2176	2183	2188	rBV	457845	758545	17.40%	1.737%
14	15.842	2188	2194	2201	rBV2	590671	1174110	26.93%	2.689%
15	15.913	2201	2206	2212	rVV	1544385	2374995	54.48%	5.439%
16	16.354	2278	2281	2285	rVB	68929	90634	2.08%	0.208%
17	16.595	2318	2322	2331	rVB2	117979	193513	4.44%	0.443%
18	16.689	2336	2338	2342	rVB2	51347	50443	1.16%	0.116%
19	16.848	2361	2365	2371	rVB7	32547	56447	1.29%	0.129%
20	17.201	2419	2425	2430	rBV2	1356101	2121259	48.66%	4.857%
21	17.248	2430	2433	2439	rVB	166826	233655	5.36%	0.535%
22	17.301	2439	2442	2445	rBV3	32888	50453	1.16%	0.116%
23	17.389	2454	2457	2463	rBV4	49905	78653	1.80%	0.180%
24	17.507	2473	2477	2487	rVB2	61373	110655	2.54%	0.253%
25	17.613	2489	2495	2500	rVB4	44601	104791	2.40%	0.240%
26	17.901	2540	2544	2551	rVB3	175780	286530	6.57%	0.656%
27	18.142	2576	2585	2592	rBV	2560523	4164351	95.53%	9.536%
28	18.207	2593	2596	2603	rVB	235568	350281	8.04%	0.802%
29	18.660	2670	2673	2682	rVB6	46661	97229	2.23%	0.223%
30	19.330	2781	2787	2792	rBV	453159	757158	17.37%	1.734%
31	19.466	2805	2810	2818	rBV	1571940	2271726	52.11%	5.202%
32	19.666	2842	2844	2845	rBV	57143	49686	1.14%	0.114%
33	19.701	2846	2850	2860	rVB	431072	625044	14.34%	1.431%
34	19.919	2881	2887	2891	rVB	3592315	4359255	100.00%	9.982%
35	20.195	2929	2934	2943	rBV3	247292	622327	14.28%	1.425%
36	20.595	2999	3002	3006	rVB2	173036	234137	5.37%	0.536%

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025534.D
Acq On : 21 Aug 2025 10:50
Operator : CG/JU
Sample : Q2819-10
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
84SB-S

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

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

Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

37	20.642	3007	3010	3017	rVV5	89988	125576	2.88%	0.288%
38	21.313	3120	3124	3129	rBV4	303034	520023	11.93%	1.191%
39	21.648	3173	3181	3187	rBV	1498101	3006799	68.98%	6.885%
40	21.701	3187	3190	3196	rVV	268310	394659	9.05%	0.904%
41	21.771	3199	3202	3212	rVB2	175187	271375	6.23%	0.621%
42	25.012	3745	3753	3765	rVB	882758	2695141	61.83%	6.172%

Sum of corrected areas: 43669891

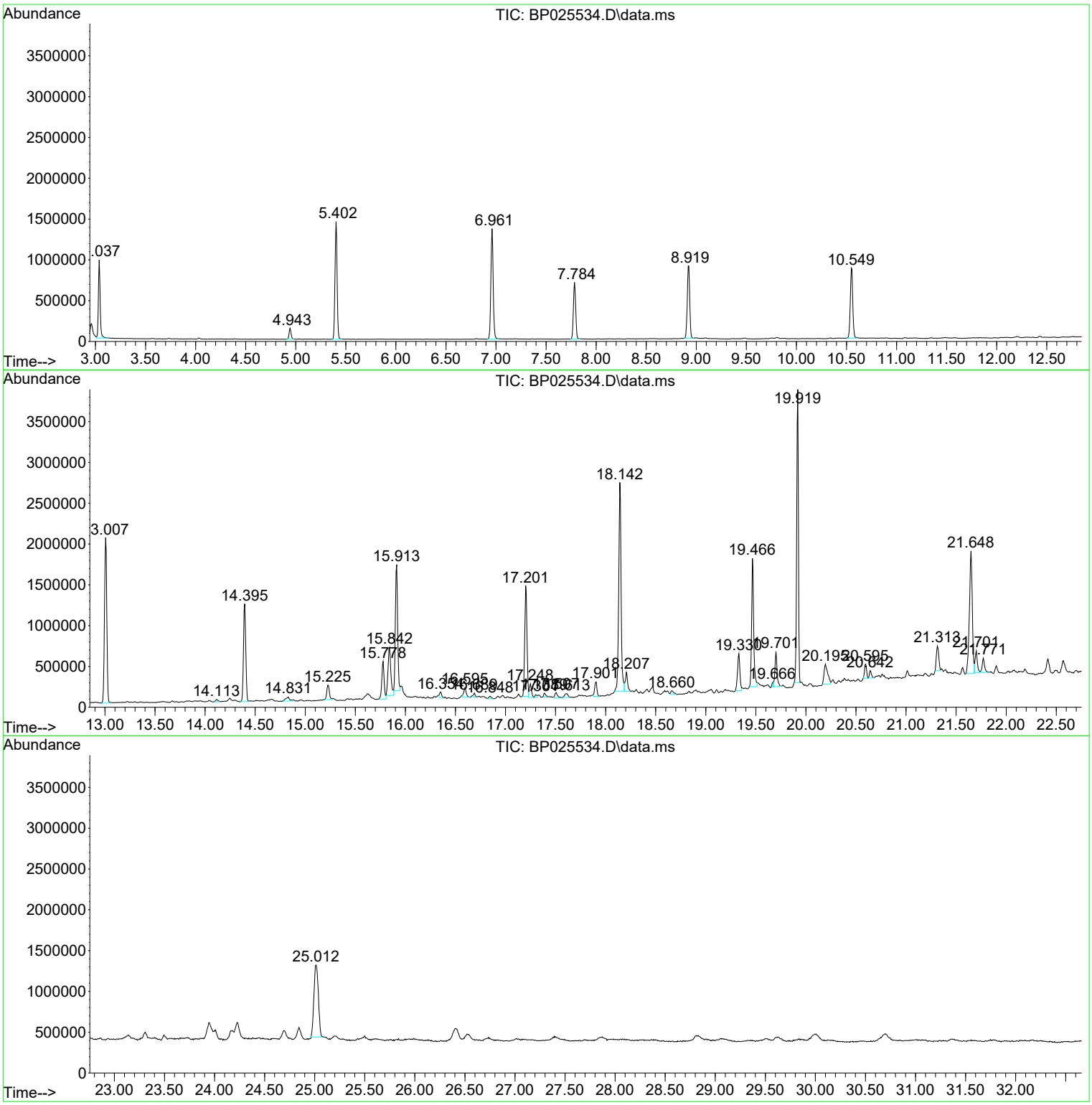
Sample Results: **BP025534.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025534.D
Acq On : 21 Aug 2025 10:50
Operator : CG/JU
Sample : Q2819-10
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
84SB-S

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025534.D
Acq On : 21 Aug 2025 10:50
Operator : CG/JU
Sample : Q2819-10
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
84SB-S

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

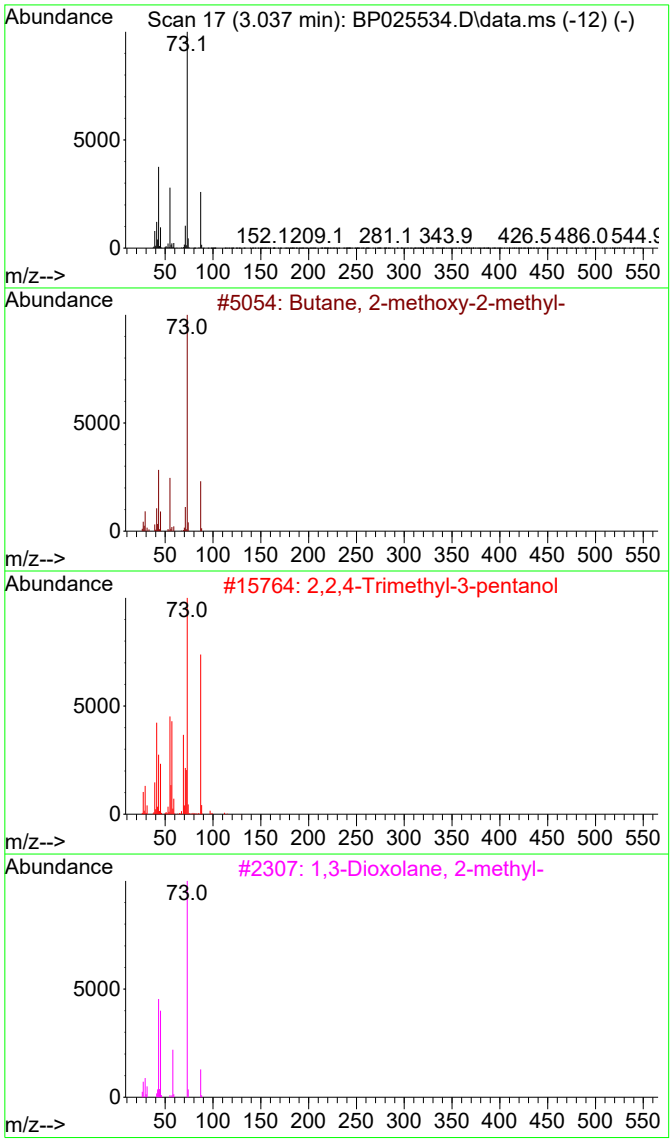
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

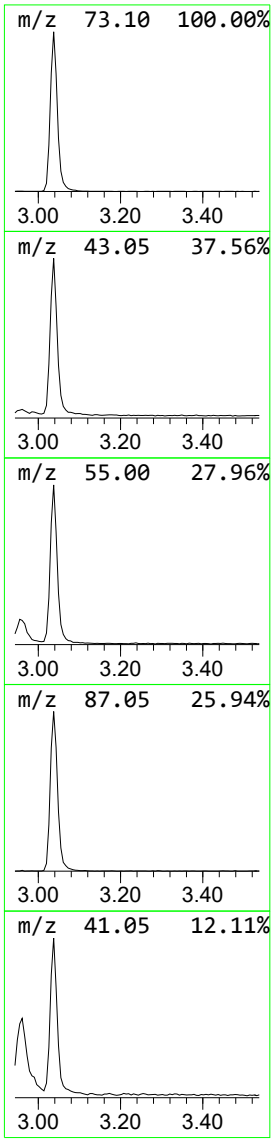
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.037	21.88 ng	1195620	1,4-Dichlorobenzene-d4	7.784

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_P\Data\BP082025\
Data File : BP025534.D
Acq On : 21 Aug 2025 10:50
Operator : CG/JU
Sample : Q2819-10
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
84SB-S

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

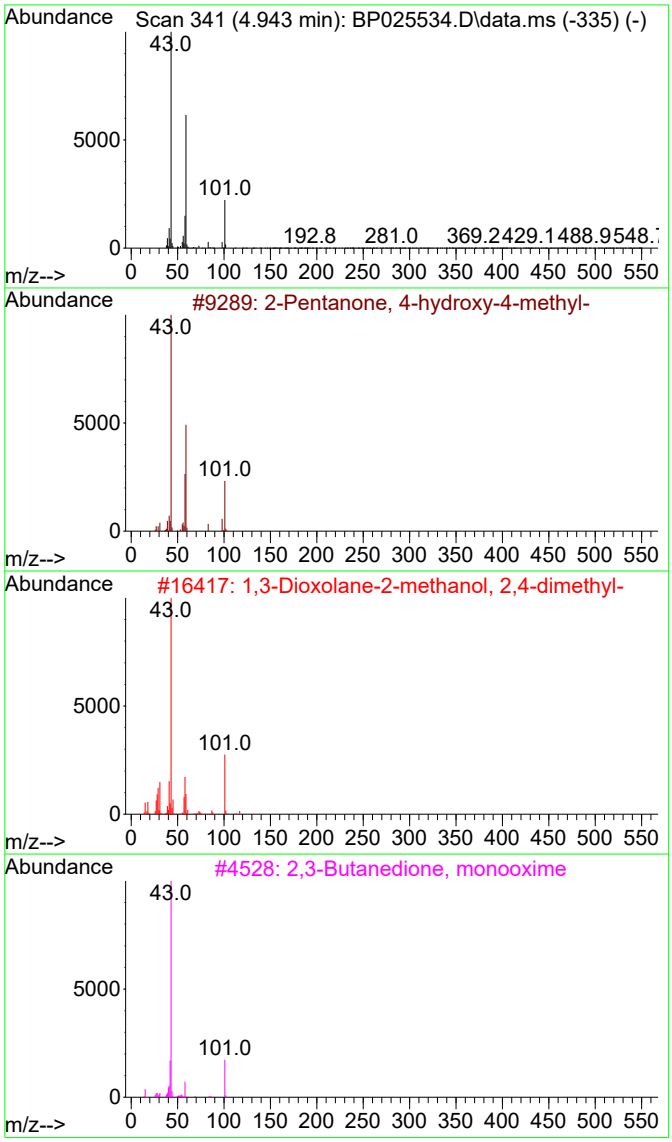
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

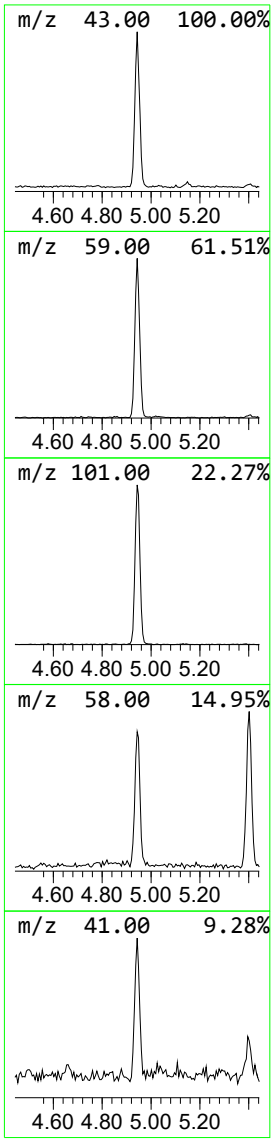
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.943	3.37 ng	184315	1,4-Dichlorobenzene-d4	7.784

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	56
2	1,3-Dioxolane-2-methanol, 2,4-di...	132	C6H12O3	053951-43-2	28
3	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	25
4	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	10
5	Morpholine, 4-methyl-	101	C5H11NO	000109-02-4	9





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Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025534.D
Acq On    : 21 Aug 2025  10:50
Operator  : CG/JU
Sample    : Q2819-10
Misc      :
ALS Vial  : 24   Sample Multiplier: 1

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.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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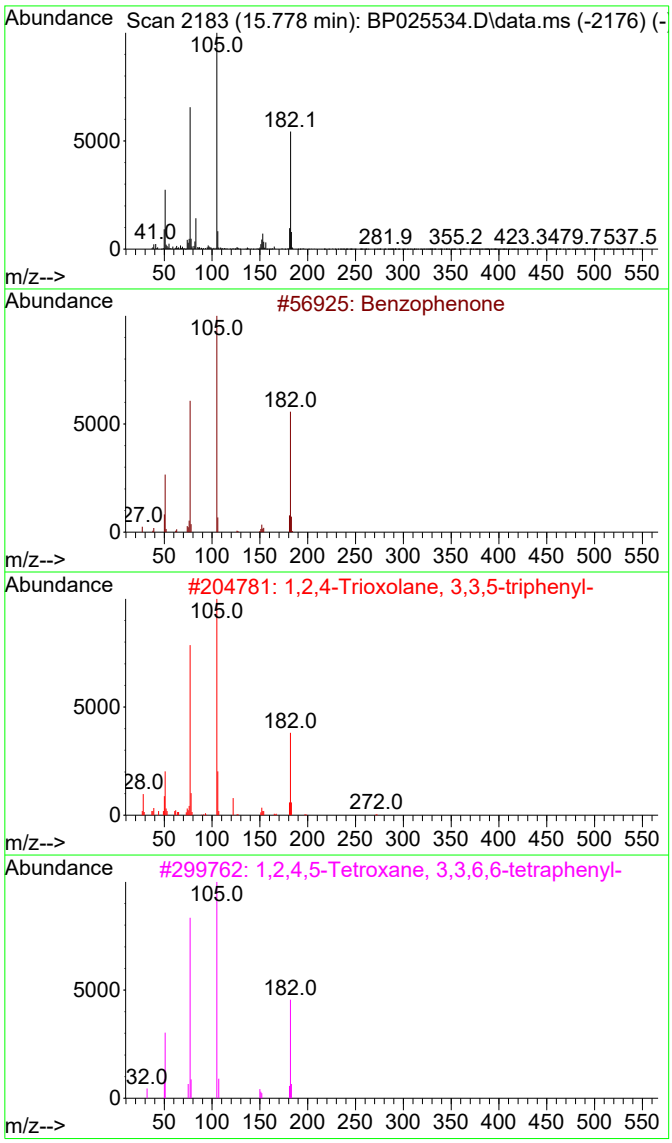
Instrument :
BNA_P
ClientSampleId :
84SB-S

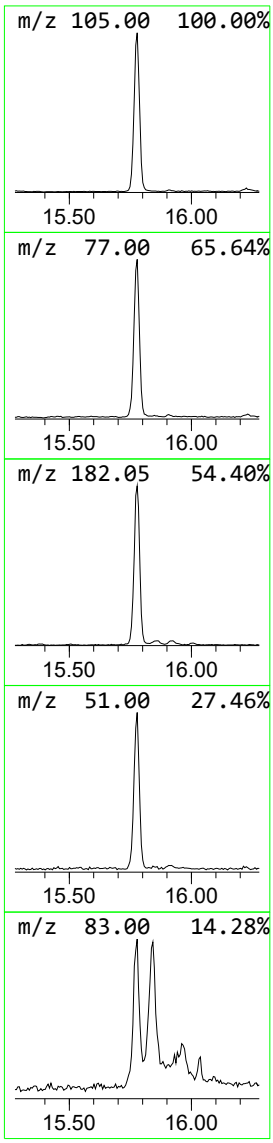
****

Peak Number 3 Benzophenone Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.778	7.98 ng	758545	Acenaphthene-d10	14.395

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	1,2,4-Trioxolane, 3,3,5-triphenyl-	304	C20H16O3	023246-12-0	72
3	1,2,4,5-Tetroxane, 3,3,6,6-tetra...	396	C26H20O4	016204-36-7	64
4	Pyridine, 4,4'-(1,2-ethenediyl)b...	182	C12H10N2	013362-78-2	45
5	Benzenamine, N-(3-pyridinylmethy...	182	C12H10N2	029722-97-2	42





Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025534.D
Acq On : 21 Aug 2025 10:50
Operator : CG/JU
Sample : Q2819-10
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
84SB-S

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

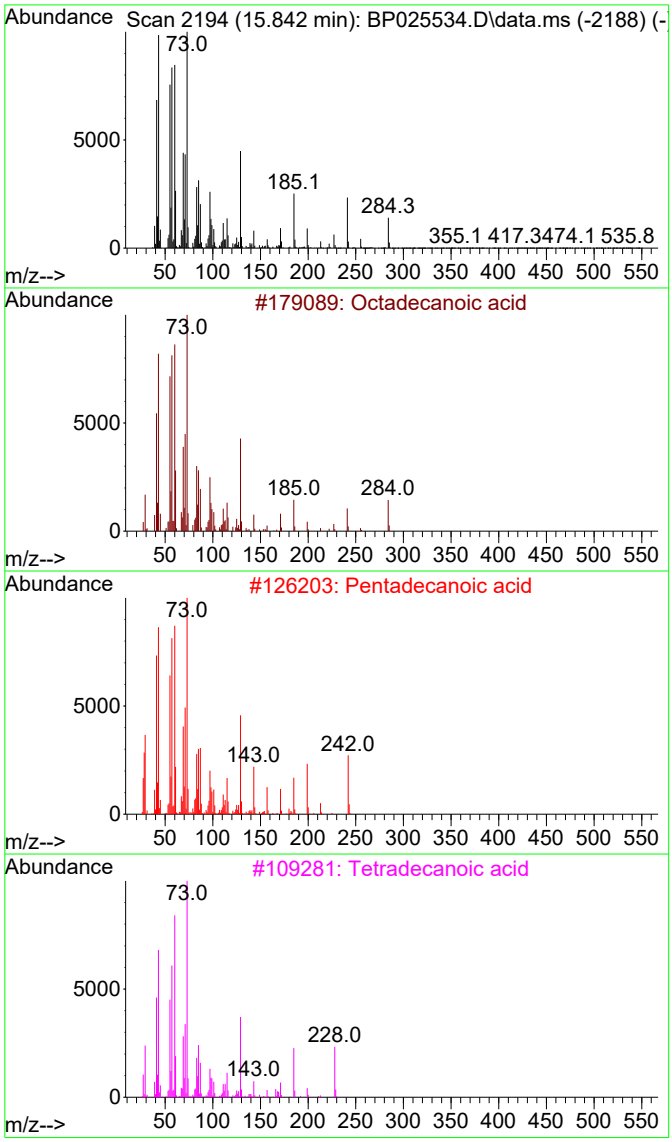
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

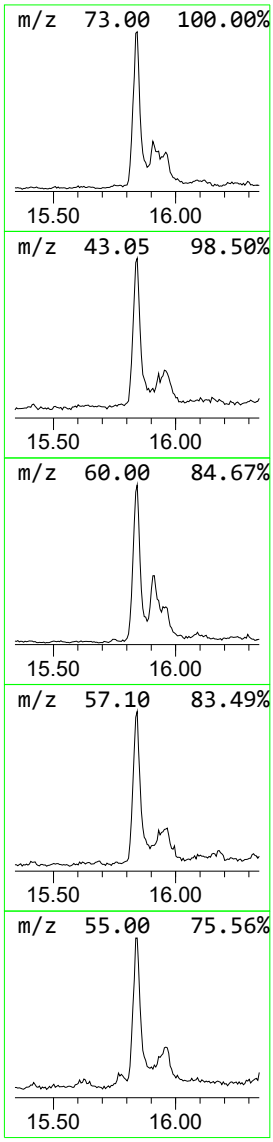
****

Peak Number 4 Octadecanoic acid Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.842	11.07 ng	1174110	Phenanthrene-d10	17.201

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanoic acid	284	C18H36O2	000057-11-4	99
2	Pentadecanoic acid	242	C15H30O2	001002-84-2	89
3	Tetradecanoic acid	228	C14H28O2	000544-63-8	87
4	Tridecanoic acid	214	C13H26O2	000638-53-9	81
5	n-Decanoic acid	172	C10H20O2	000334-48-5	70





Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025534.D
Acq On : 21 Aug 2025 10:50
Operator : CG/JU
Sample : Q2819-10
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
84SB-S

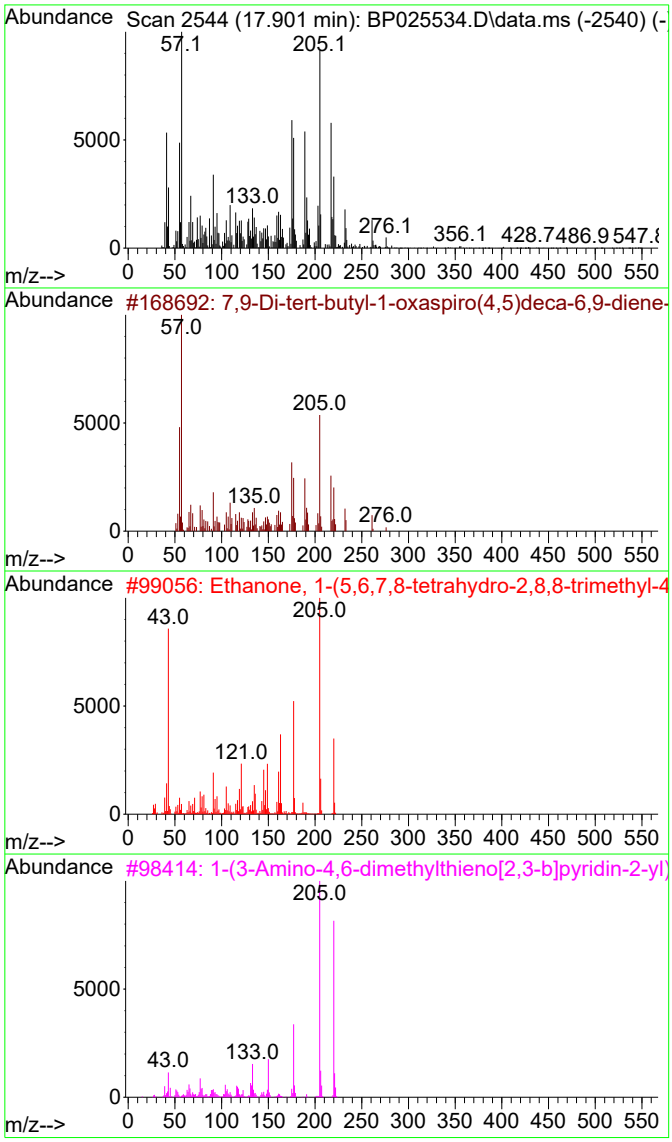
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

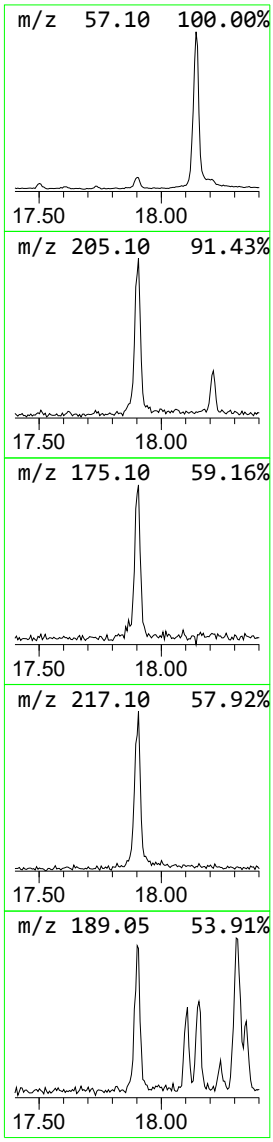
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 5 7,9-Di-tert-butyl-1-oxaspir... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.901	2.70 ng	286530	Phenanthrene-d10	17.201

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	7,9-Di-tert-butyl-1-oxaspiro(4,5...	276	C17H24O3	082304-66-3	96
2	Ethanone, 1-(5,6,7,8-tetrahydro-...	220	C14H20O2	071596-88-8	64
3	1-(3-Amino-4,6-dimethylthieno[2,...	220	C11H12N2OS	052505-42-7	50
4	2-Hydroxy-4-methoxy-5-(2-methylb...	220	C13H16O3	2108511-28-8	46
5	9-Acetylphenanthrene	220	C16H12O	002039-77-2	43





Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025534.D
Acq On : 21 Aug 2025 10:50
Operator : CG/JU
Sample : Q2819-10
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
84SB-S

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

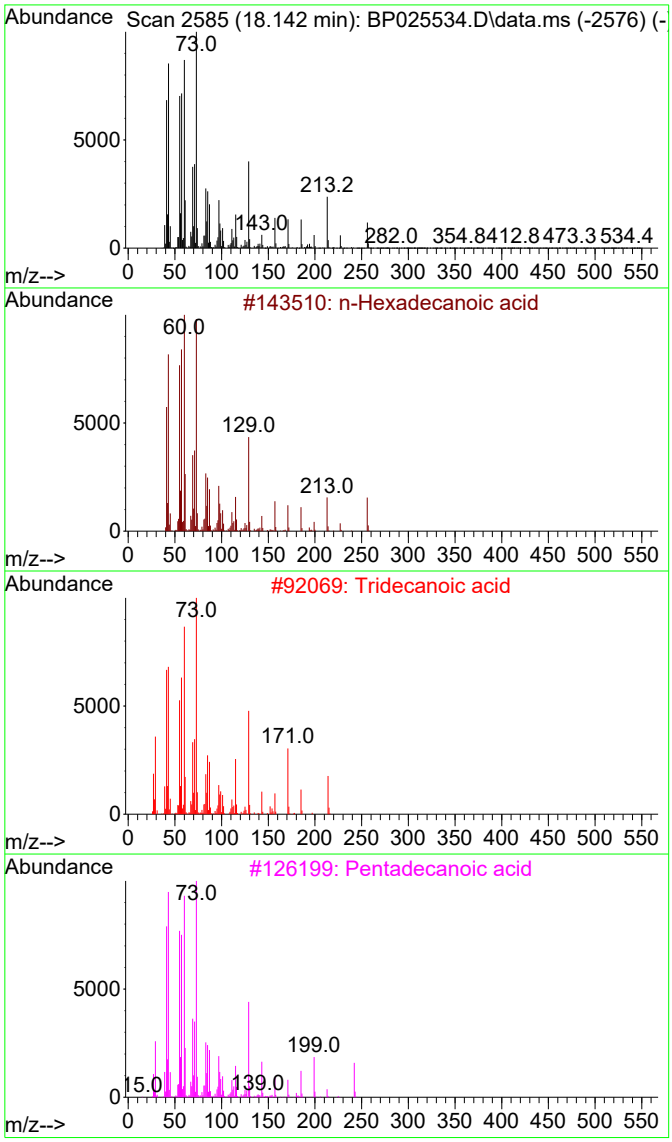
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

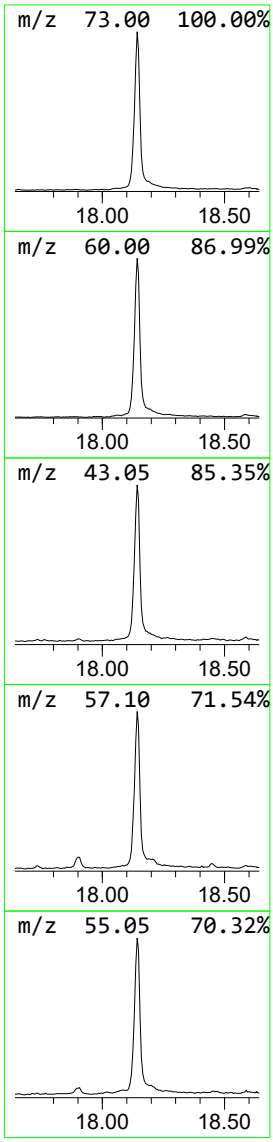
****

Peak Number 6 n-Hexadecanoic acid Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.142	39.26 ng	4164350	Phenanthrene-d10	17.201

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	93
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	76
5	n-Decanoic acid	172	C10H20O2	000334-48-5	68





Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025534.D
Acq On : 21 Aug 2025 10:50
Operator : CG/JU
Sample : Q2819-10
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
84SB-S

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

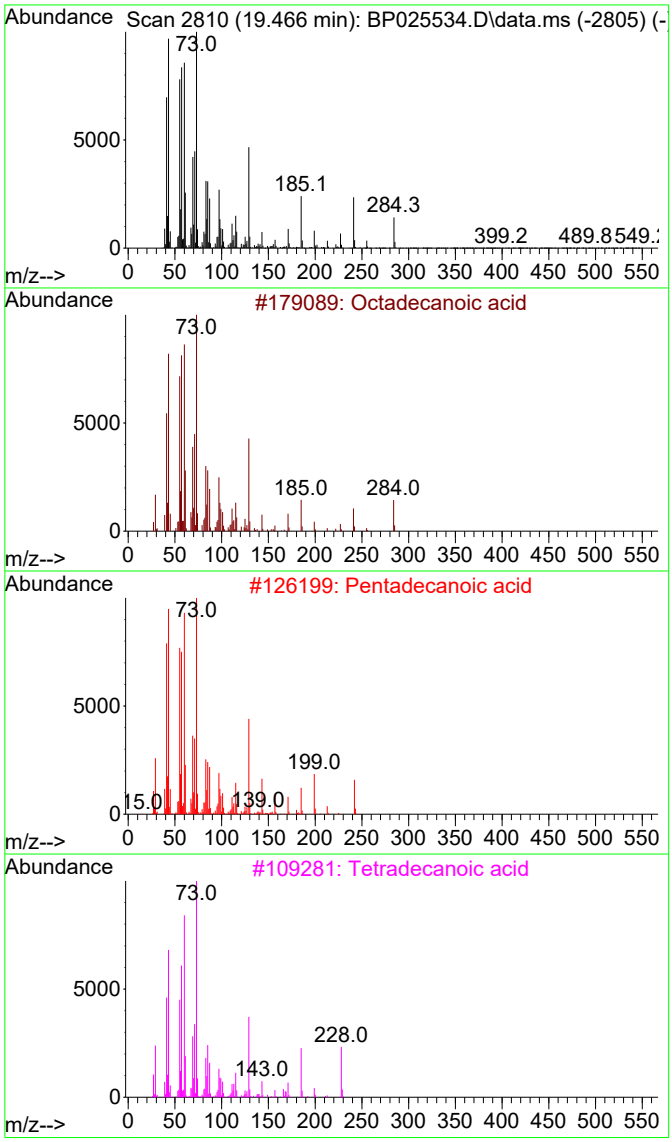
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

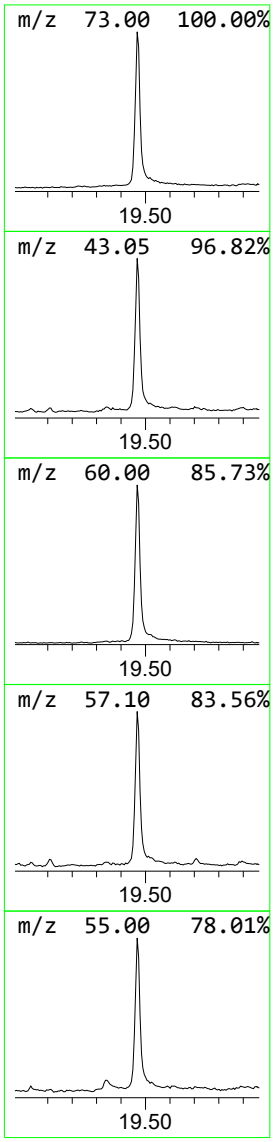
****

Peak Number 7 Pentadecanoic acid Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.466	15.11 ng	2271730	Chrysene-d12	21.648

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanoic acid	284	C18H36O2	000057-11-4	99
2	Pentadecanoic acid	242	C15H30O2	001002-84-2	90
3	Tetradecanoic acid	228	C14H28O2	000544-63-8	87
4	n-Decanoic acid	172	C10H20O2	000334-48-5	70
5	Tridecanoic acid	214	C13H26O2	000638-53-9	64





Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025534.D
Acq On : 21 Aug 2025 10:50
Operator : CG/JU
Sample : Q2819-10
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
84SB-S

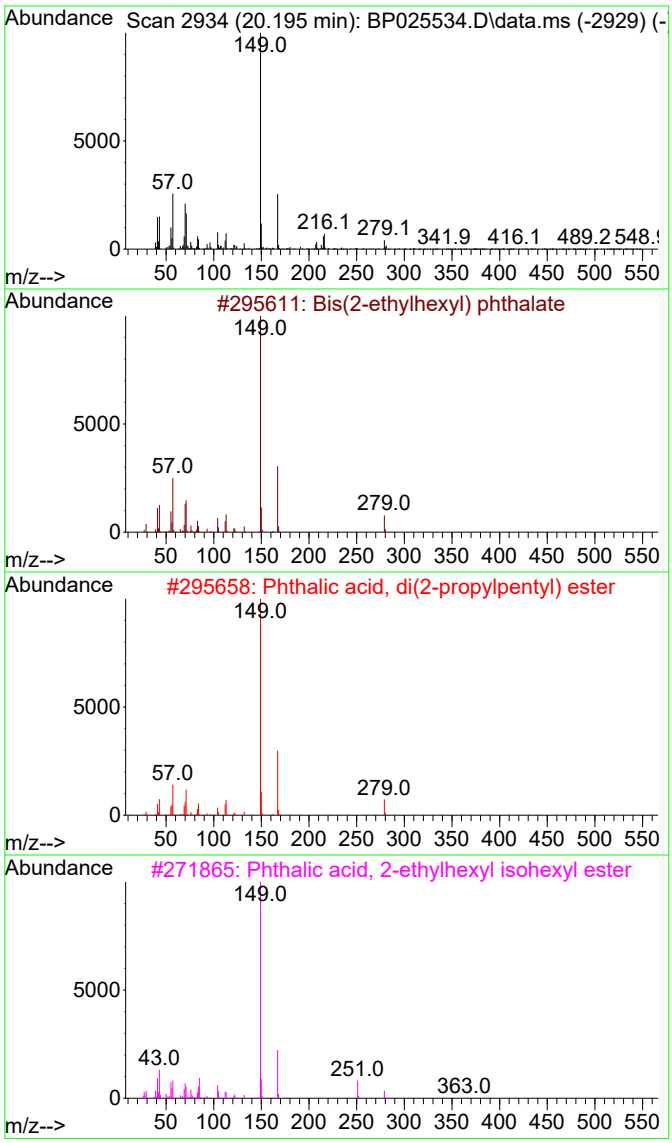
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

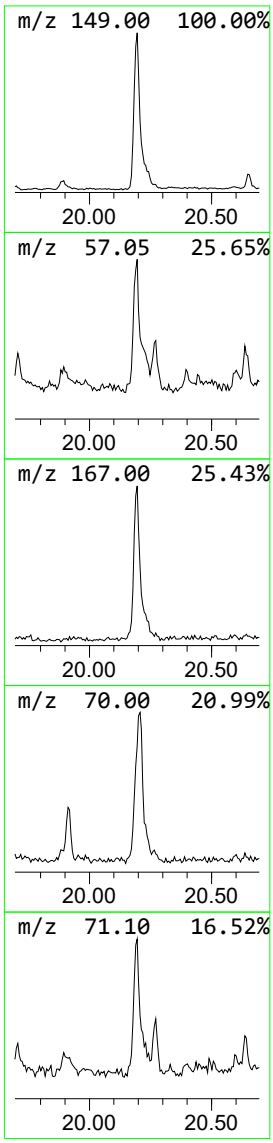
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 8 Phthalic acid, di(2-propylp... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.195	4.14 ng	622327	Chrysene-d12	21.648

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Bis(2-ethylhexyl) phthalate	390	C24H38O4	000117-81-7	74
2	Phthalic acid, di(2-propylpentyl...	390	C24H38O4	1000377-93-5	72
3	Phthalic acid, 2-ethylhexyl isoh...	362	C22H34O4	1000308-98-5	72
4	Phthalic acid, isohexyl 2-methyl...	334	C20H30O4	1000356-91-0	58
5	Phthalic acid, 2-methoxyethyl te...	420	C25H40O5	1010315-80-9	53





Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025534.D
Acq On : 21 Aug 2025 10:50
Operator : CG/JU
Sample : Q2819-10
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
84SB-S

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

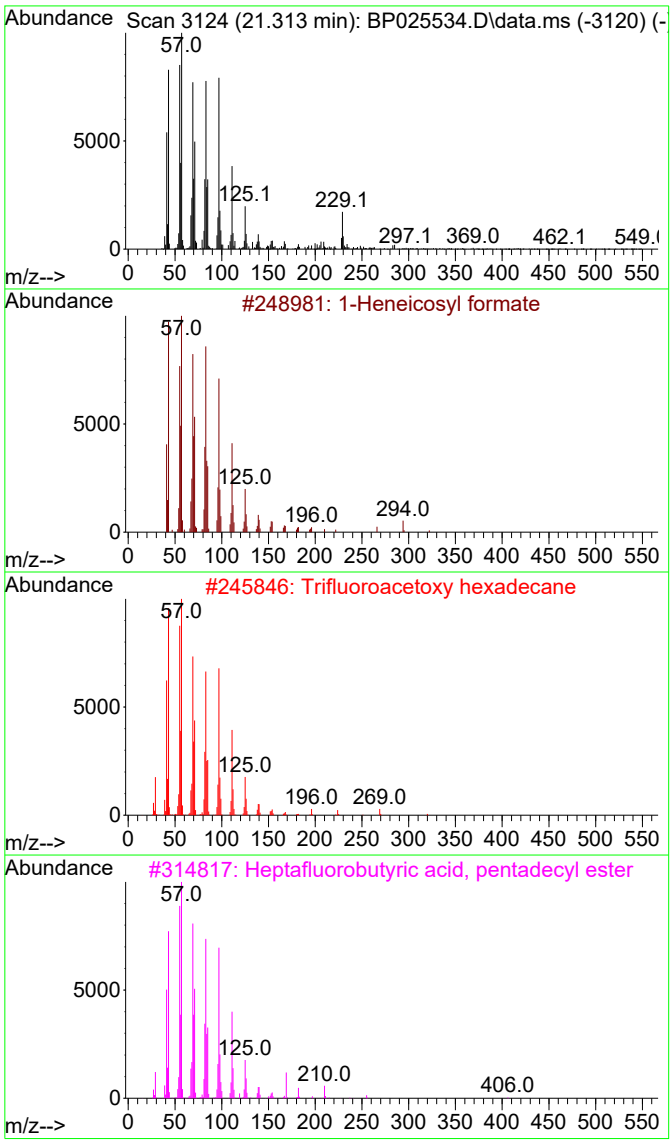
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

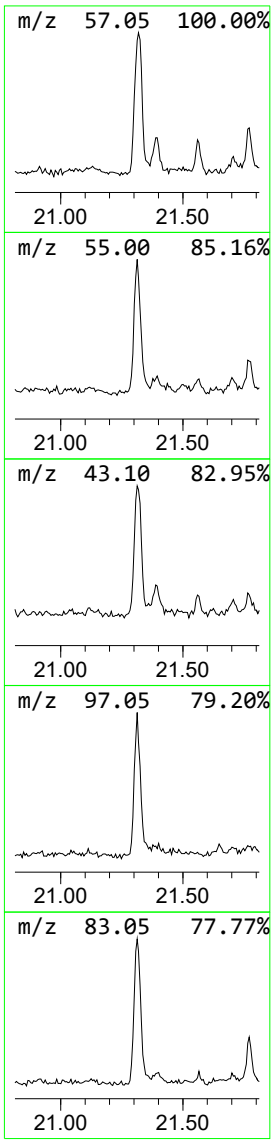
****

Peak Number 9 1-Heneicosyl formate Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.313	3.46 ng	520023	Chrysene-d12	21.648

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Heneicosyl formate	340	C22H44O2	077899-03-7	95
2	Trifluoroacetoxy hexadecane	338	C18H33F3O2	006222-03-3	94
3	Heptafluorobutyric acid, pentade...	424	C19H31F7O2	959261-23-5	94
4	1-Heptacosanol	396	C27H56O	002004-39-9	91
5	Nonadecyl trifluoroacetate	380	C21H39F3O2	1000351-76-3	91





Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025534.D
Acq On : 21 Aug 2025 10:50
Operator : CG/JU
Sample : Q2819-10
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
84SB-S

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.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...	3.037	21.9	ng	1195620	1	7.784	1092690	20.0
2-Pentanone, 4-...	4.943	3.4	ng	184315	1	7.784	1092690	20.0
Benzophenone	15.778	8.0	ng	758545	3	14.395	1902050	20.0
Octadecanoic acid	15.842	11.1	ng	1174110	4	17.201	2121260	20.0
7,9-Di-tert-but...	17.901	2.7	ng	286530	4	17.201	2121260	20.0
n-Hexadecanoic ...	18.142	39.3	ng	4164350	4	17.201	2121260	20.0
Pentadecanoic acid	19.466	15.1	ng	2271730	5	21.648	3006800	20.0
Phthalic acid, ...	20.195	4.1	ng	622327	5	21.648	3006800	20.0
1-Heneicosyl fo...	21.313	3.5	ng	520023	5	21.648	3006800	20.0

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	84SB-SRE	SDG No.:	Q2819
Lab Sample ID:	Q2819-10RE	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	92.3
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143530.D	1	08/15/25 08:25	08/21/25 15:11	PB169259

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
100-52-7	Benzaldehyde	290	U	170	290	360	ug/Kg
108-95-2	Phenol	140	U	23.9	140	180	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	140	U	26.3	140	180	ug/Kg
95-57-8	2-Chlorophenol	140	U	26.4	140	180	ug/Kg
95-48-7	2-Methylphenol	140	U	32.3	140	180	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	140	U	40.5	140	180	ug/Kg
98-86-2	Acetophenone	140	U	31.9	140	180	ug/Kg
65794-96-9	3+4-Methylphenols	290	U	44.4	290	360	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	86.5	U	51.2	86.5	86.5	ug/Kg
67-72-1	Hexachloroethane	140	U	19.0	140	180	ug/Kg
98-95-3	Nitrobenzene	140	U	19.8	140	180	ug/Kg
78-59-1	Isophorone	140	U	35.5	140	180	ug/Kg
88-75-5	2-Nitrophenol	140	U	62.9	140	180	ug/Kg
105-67-9	2,4-Dimethylphenol	140	U	70.0	140	180	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	140	U	33.3	140	180	ug/Kg
120-83-2	2,4-Dichlorophenol	140	U	30.6	140	180	ug/Kg
91-20-3	Naphthalene	140	U	24.5	140	180	ug/Kg
106-47-8	4-Chloroaniline	140	U	38.3	140	180	ug/Kg
87-68-3	Hexachlorobutadiene	140	U	27.3	140	180	ug/Kg
105-60-2	Caprolactam	290	U	56.3	290	360	ug/Kg
59-50-7	4-Chloro-3-methylphenol	140	U	31.0	140	180	ug/Kg
91-57-6	2-Methylnaphthalene	140	U	27.7	140	180	ug/Kg
77-47-4	Hexachlorocyclopentadiene	290	U	130	290	360	ug/Kg
88-06-2	2,4,6-Trichlorophenol	140	U	21.4	140	180	ug/Kg
95-95-4	2,4,5-Trichlorophenol	140	U	31.5	140	180	ug/Kg
92-52-4	1,1-Biphenyl	140	U	23.6	140	180	ug/Kg
91-58-7	2-Chloronaphthalene	140	U	24.3	140	180	ug/Kg
88-74-4	2-Nitroaniline	140	U	52.0	140	180	ug/Kg
131-11-3	Dimethylphthalate	140	U	29.3	140	180	ug/Kg

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	84SB-SRE	SDG No.:	Q2819
Lab Sample ID:	Q2819-10RE	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	92.3
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143530.D	1	08/15/25 08:25	08/21/25 15:11	PB169259

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	140	U	31.2	140	180	ug/Kg
606-20-2	2,6-Dinitrotoluene	140	U	36.3	140	180	ug/Kg
99-09-2	3-Nitroaniline	140	U	49.7	140	180	ug/Kg
83-32-9	Acenaphthene	140	U	23.0	140	180	ug/Kg
51-28-5	2,4-Dinitrophenol	290	U	250	290	360	ug/Kg
100-02-7	4-Nitrophenol	290	U	120	290	360	ug/Kg
132-64-9	Dibenzofuran	140	U	24.5	140	180	ug/Kg
121-14-2	2,4-Dinitrotoluene	140	U	54.2	140	180	ug/Kg
84-66-2	Diethylphthalate	140	U	30.6	140	180	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	140	U	28.9	140	180	ug/Kg
86-73-7	Fluorene	140	U	27.3	140	180	ug/Kg
100-01-6	4-Nitroaniline	140	U	69.4	140	180	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	290	U	110	290	360	ug/Kg
86-30-6	n-Nitrosodiphenylamine	140	U	35.6	140	180	ug/Kg
101-55-3	4-Bromophenyl-phenylether	140	U	30.0	140	180	ug/Kg
118-74-1	Hexachlorobenzene	140	U	27.3	140	180	ug/Kg
1912-24-9	Atrazine	140	U	36.8	140	180	ug/Kg
87-86-5	Pentachlorophenol	290	U	55.5	290	360	ug/Kg
85-01-8	Phenanthrene	140	U	22.6	140	180	ug/Kg
120-12-7	Anthracene	140	U	36.0	140	180	ug/Kg
86-74-8	Carbazole	140	U	33.7	140	180	ug/Kg
84-74-2	Di-n-butylphthalate	140	U	51.8	140	180	ug/Kg
206-44-0	Fluoranthene	160	J	32.4	140	180	ug/Kg
129-00-0	Pyrene	120	J	38.9	140	180	ug/Kg
85-68-7	Butylbenzylphthalate	140	U	77.2	140	180	ug/Kg
91-94-1	3,3-Dichlorobenzidine	290	U	39.7	290	360	ug/Kg
56-55-3	Benzo(a)anthracene	80.6	J	24.9	140	180	ug/Kg
218-01-9	Chrysene	100	J	21.5	140	180	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	140	U	64.0	140	180	ug/Kg
117-84-0	Di-n-octyl phthalate	290	U	93.8	290	360	ug/Kg
205-99-2	Benzo(b)fluoranthene	130	J	20.5	140	180	ug/Kg

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	84SB-SRE	SDG No.:	Q2819
Lab Sample ID:	Q2819-10RE	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	92.3
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143530.D	1	08/15/25 08:25	08/21/25 15:11	PB169259

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	140	U	24.2	140	180	ug/Kg
50-32-8	Benzo(a)pyrene	90.9	J	31.9	140	180	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	140	U	31.5	140	180	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	140	U	29.6	140	180	ug/Kg
191-24-2	Benzo(g,h,i)perylene	140	U	27.8	140	180	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	140	U	27.7	140	180	ug/Kg
123-91-1	1,4-Dioxane	140	U	48.9	140	180	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	140	U	29.6	140	180	ug/Kg
SURROGATES							
367-12-4	2-Fluorophenol	55.5		35 - 115		37%	SPK: 150
13127-88-3	Phenol-d6	55.3		34 - 127		37%	SPK: 150
4165-60-0	Nitrobenzene-d5	40.9		37 - 122		41%	SPK: 100
321-60-8	2-Fluorobiphenyl	42.6	*	44 - 115		43%	SPK: 100
118-79-6	2,4,6-Tribromophenol	47.5	*	39 - 132		32%	SPK: 150
1718-51-0	Terphenyl-d14	33.0	*	54 - 127		33%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	128000	6.928				
1146-65-2	Naphthalene-d8	481000	8.204				
15067-26-2	Acenaphthene-d10	248000	9.963				
1517-22-2	Phenanthrene-d10	333000	11.451				
1719-03-5	Chrysene-d12	240000	14.092				
1520-96-3	Perylene-d12	297000	15.592				

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\BF082125\
Data File : BF143530.D
Acq On : 21 Aug 2025 15:11
Operator : RC/JU
Sample : Q2819-10RE
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
84SB-SRE

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 08/22/2025
Supervised By :mohammad ahmed 08/22/2025

Quant Time: Aug 21 15:50:19 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 21 06:12:21 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.928	152	128328	20.000	ng	0.00
21) Naphthalene-d8	8.204	136	480515	20.000	ng	0.00
39) Acenaphthene-d10	9.963	164	247608	20.000	ng	0.00
64) Phenanthrene-d10	11.451	188	332938	20.000	ng	0.00
76) Chrysene-d12	14.092	240	239904	20.000	ng	-0.01
86) Perylene-d12	15.592	264	296752	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.557	112	407971	55.513	ng	0.00
7) Phenol-d6	6.557	99	501868	55.320	ng	-0.02
23) Nitrobenzene-d5	7.481	82	336782	40.900	ng	-0.02
42) 2,4,6-Tribromophenol	10.751	330	109467	47.494	ng	-0.01
45) 2-Fluorobiphenyl	9.281	172	637584	42.556	ng	0.00
79) Terphenyl-d14	13.033	244	454012	33.024	ng	0.00
Target Compounds						Qvalue
75) Fluoranthene	12.669	202	69507	4.345	ng	99
78) Pyrene	12.898	202	64191	3.253	ng	99
81) Benzo(a)anthracene	14.086	228	34552	2.237	ng	96
83) Chrysene	14.122	228	39660	2.857	ng	96
88) Benzo(b)fluoranthene	15.151	252	59852m	3.628	ng	
90) Benzo(a)pyrene	15.527	252	38651	2.524	ng	96

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

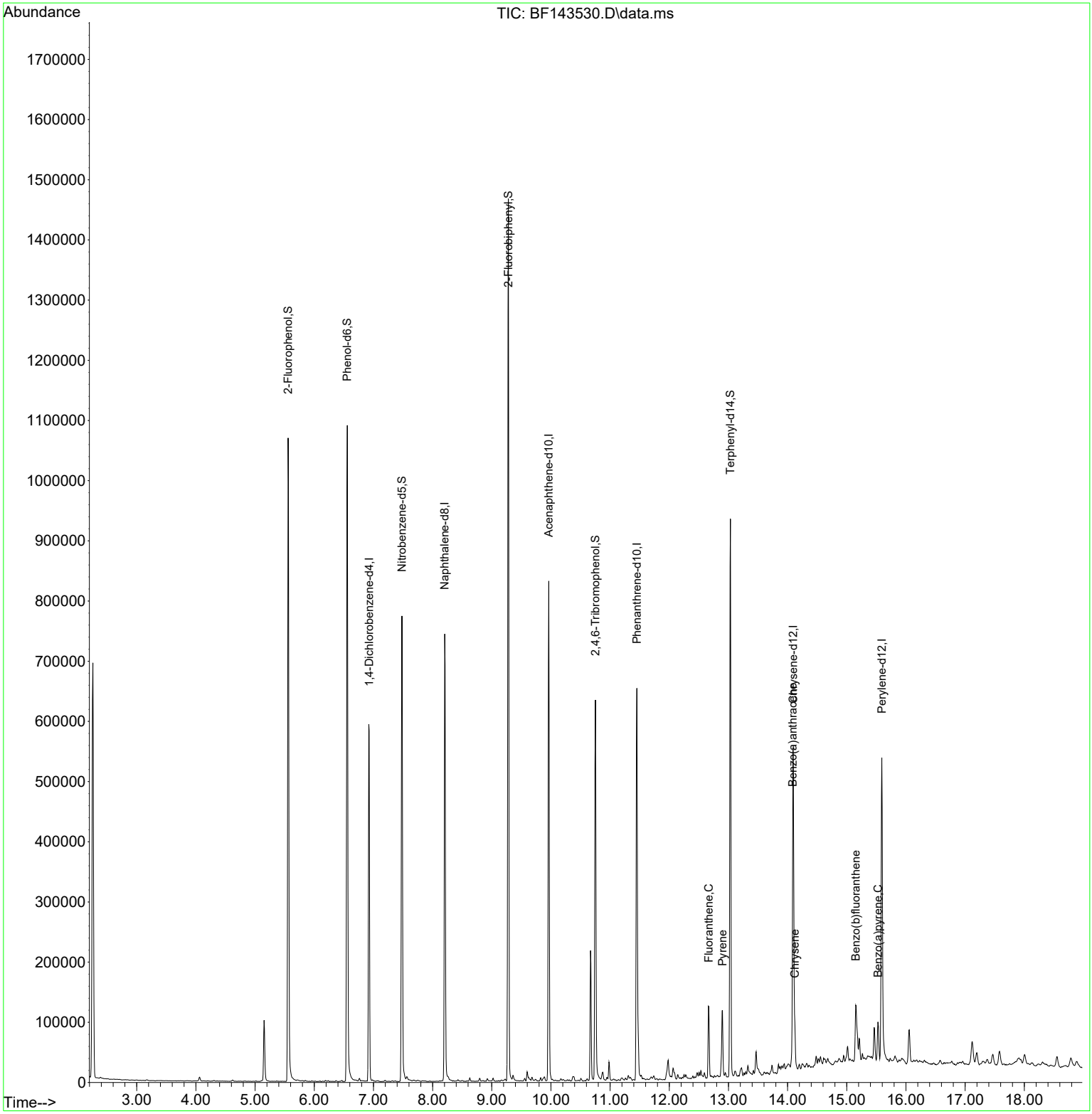
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
Data File : BF143530.D
Acq On : 21 Aug 2025 15:11
Operator : RC/JU
Sample : Q2819-10RE
Misc :
ALS Vial : 14 Sample Multiplier: 1

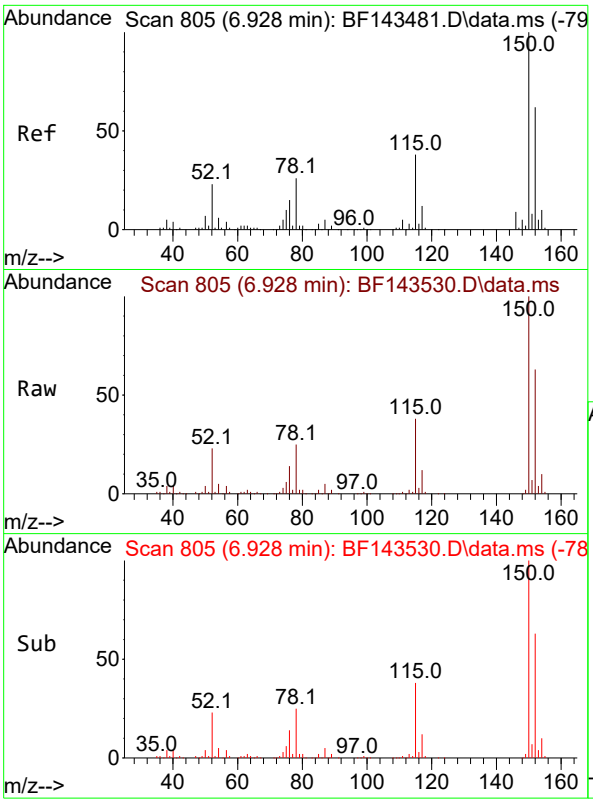
Quant Time: Aug 21 15:50:19 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 21 06:12:21 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
84SB-SRE

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 08/22/2025
Supervised By :mohammad ahmed 08/22/2025

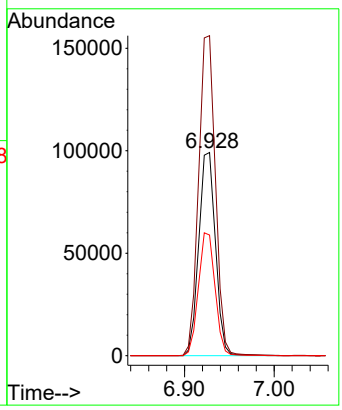




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.928 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF143530.D
Acq: 21 Aug 2025 15:11

Tgt Ion:152 Resp: 12832

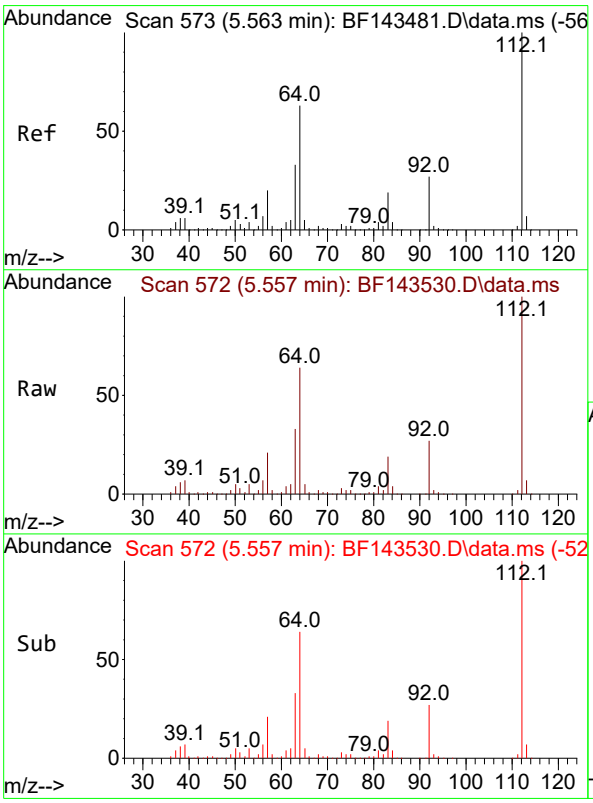
Ion	Ratio	Lower	Upper
152	100		
150	157.5	128.9	193.3
115	59.4	49.2	73.8



Instrument :
BNA_F
ClientSampleId :
84SB-SRE

Manual Integrations
APPROVED

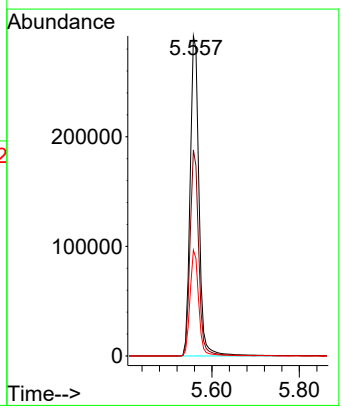
Reviewed By :Rahul Chavli 08/22/2025
Supervised By :mohammad ahmed 08/22/2025

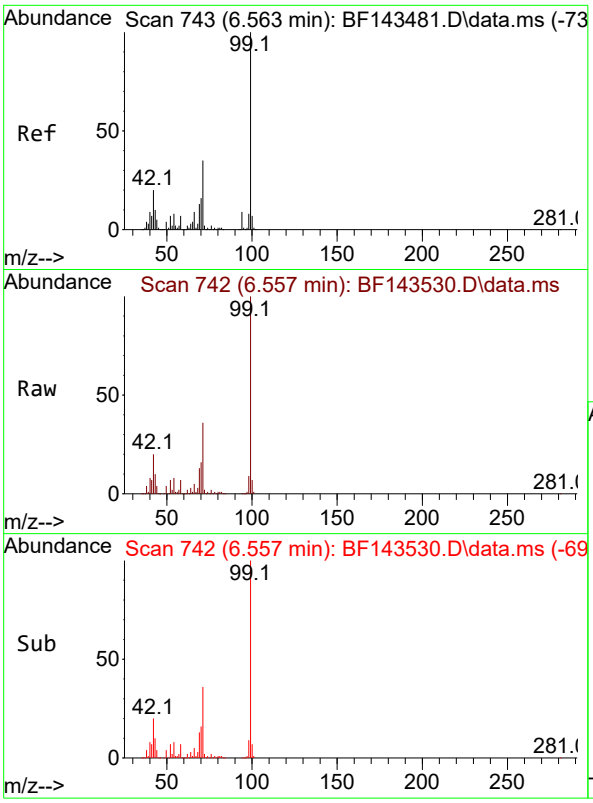


#5
2-Fluorophenol
Concen: 55.513 ng
RT: 5.557 min Scan# 572
Delta R.T. -0.006 min
Lab File: BF143530.D
Acq: 21 Aug 2025 15:11

Tgt Ion:112 Resp: 407971

Ion	Ratio	Lower	Upper
112	100		
64	64.4	50.4	75.6
63	33.1	26.4	39.6

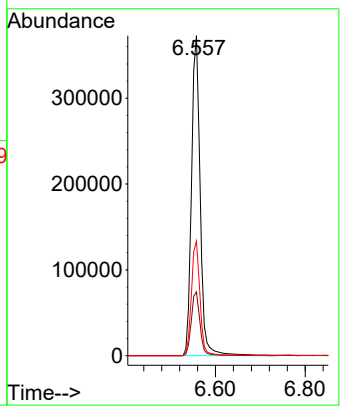




#7
Phenol-d6
Concen: 55.320 ng
RT: 6.557 min Scan# 7
Delta R.T. -0.018 min
Lab File: BF143530.D
Acq: 21 Aug 2025 15:11

Tgt Ion: 99 Resp: 50186

Ion	Ratio	Lower	Upper
99	100		
42	19.9	16.3	24.5
71	35.8	28.2	42.2



Instrument :
BNA_F
ClientSampleId :
84SB-SRE

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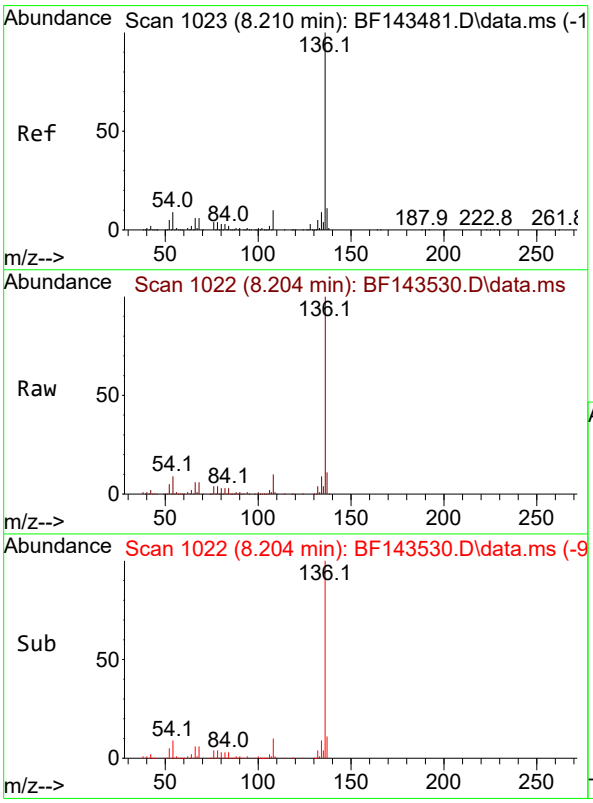
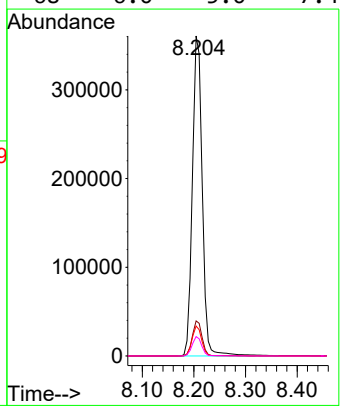
Reviewed By :Rahul Chavli 08/22/2025
Supervised By :mohammad ahmed 08/22/2025

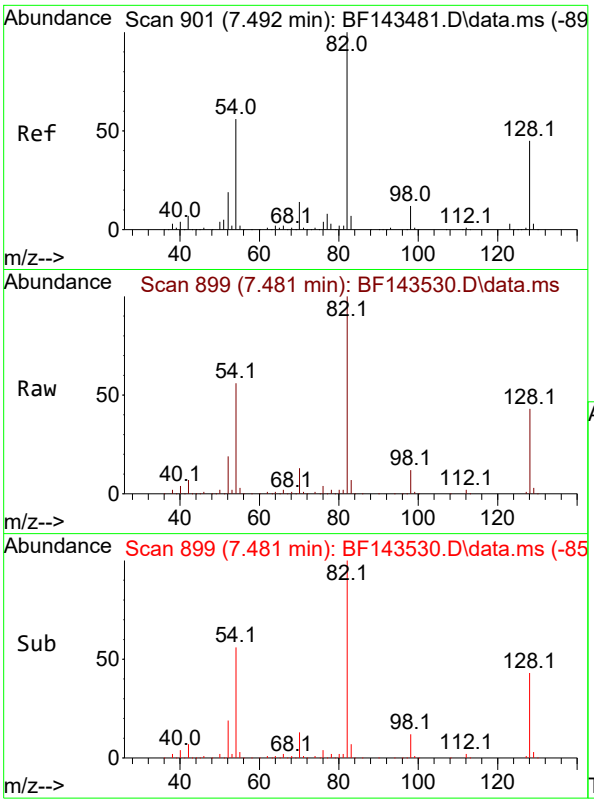


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.204 min Scan# 1022
Delta R.T. -0.006 min
Lab File: BF143530.D
Acq: 21 Aug 2025 15:11

Tgt Ion:136 Resp: 480515

Ion	Ratio	Lower	Upper
136	100		
137	11.0	9.0	13.4
54	9.3	7.4	11.2
68	6.0	5.0	7.4

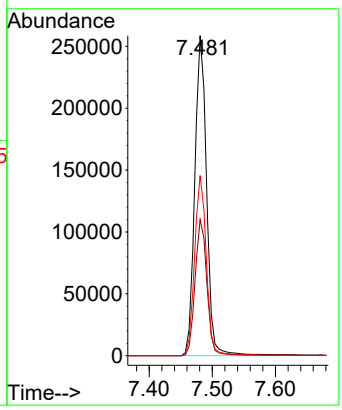




#23
Nitrobenzene-d5
Concen: 40.900 ng
RT: 7.481 min Scan# 8
Delta R.T. -0.018 min
Lab File: BF143530.D
Acq: 21 Aug 2025 15:11

Tgt Ion: 82 Resp: 33678

Ion	Ratio	Lower	Upper
82	100		
128	42.5	35.5	53.3
54	56.3	44.3	66.5



Instrument :
BNA_F
ClientSampleId :
84SB-SRE

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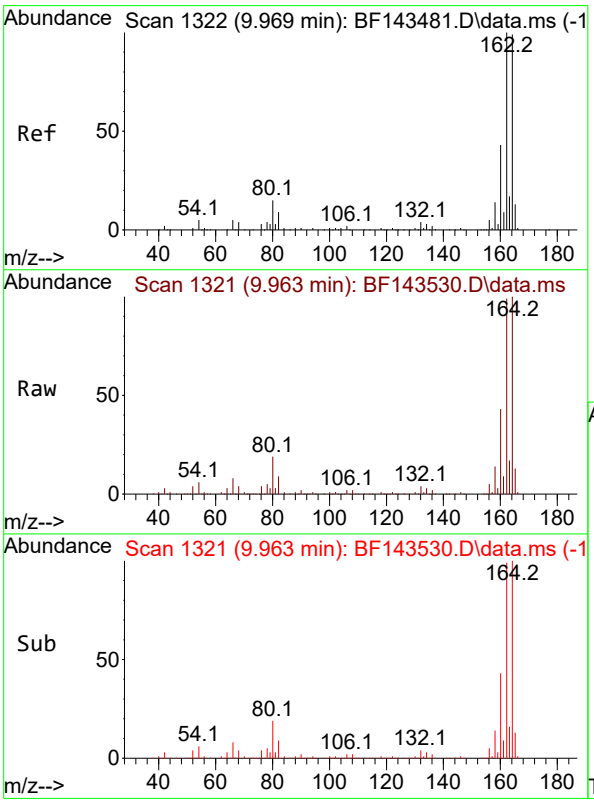
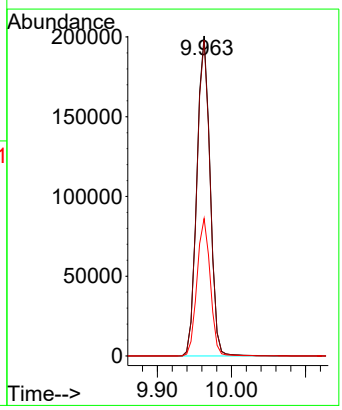
Reviewed By :Rahul Chavli 08/22/2025
Supervised By :mohammad ahmed 08/22/2025

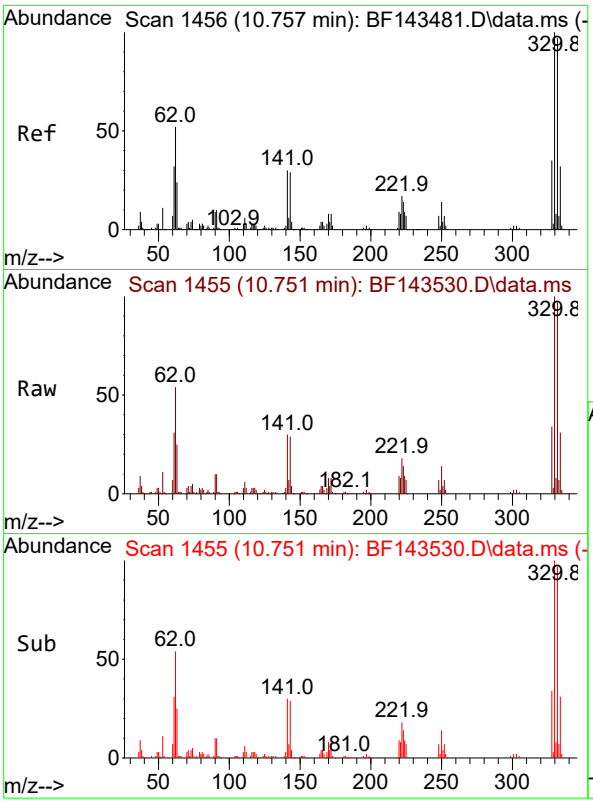


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.963 min Scan# 1321
Delta R.T. -0.006 min
Lab File: BF143530.D
Acq: 21 Aug 2025 15:11

Tgt Ion:164 Resp: 247608

Ion	Ratio	Lower	Upper
164	100		
162	98.7	80.5	120.7
160	43.0	34.3	51.5

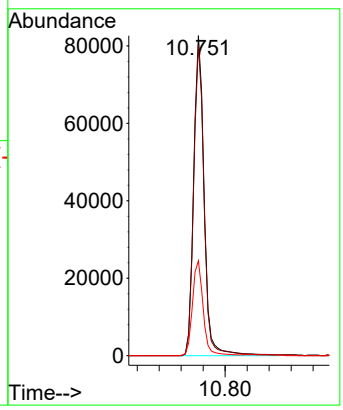




#42
2,4,6-Tribromophenol
Concen: 47.494 ng
RT: 10.751 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF143530.D
Acq: 21 Aug 2025 15:11

Tgt Ion:330 Resp: 10946

Ion	Ratio	Lower	Upper
330	100		
332	96.5	78.0	117.0
141	30.2	23.7	35.5



Instrument :
BNA_F
ClientSampleId :
84SB-SRE

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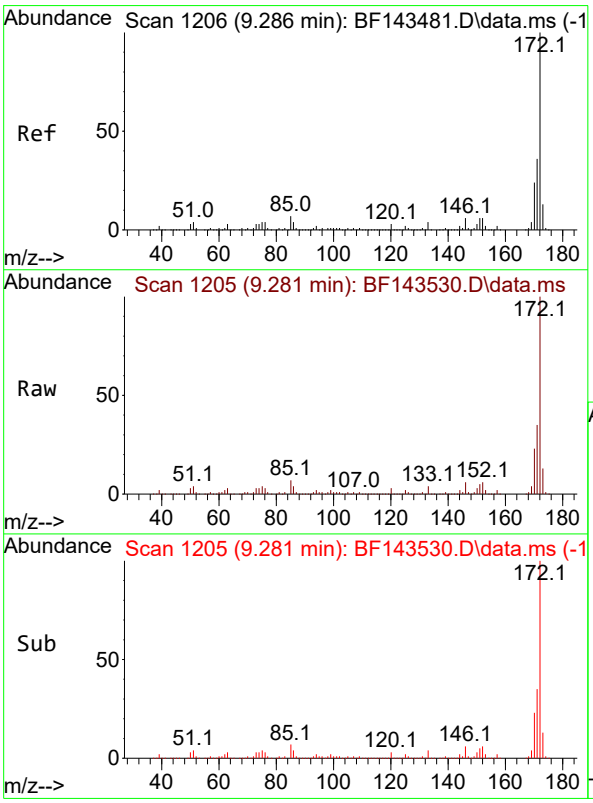
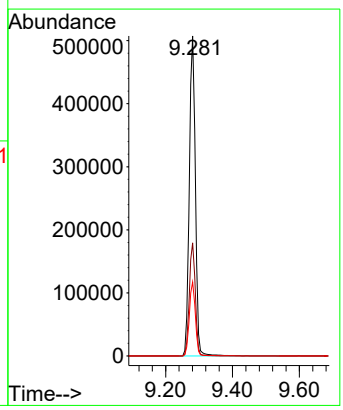
Supervised By :mohammad ahmed 08/22/2025

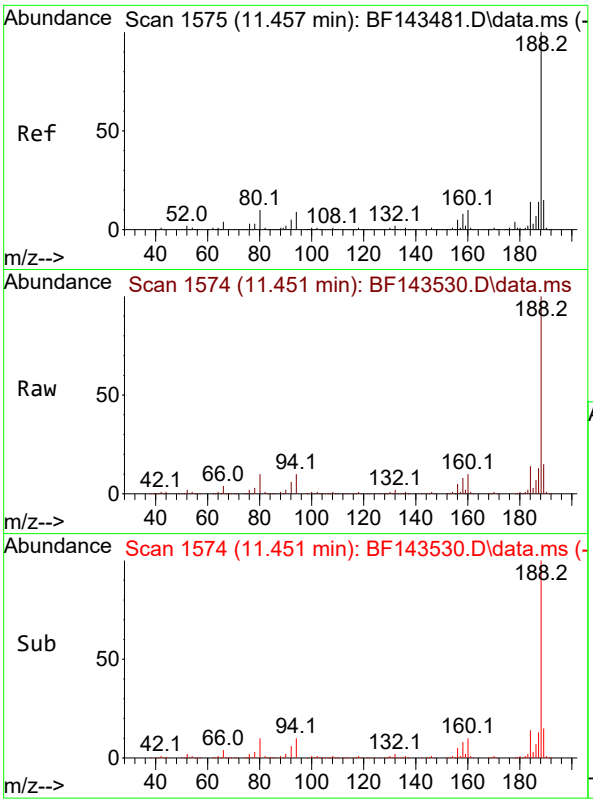


#45
2-Fluorobiphenyl
Concen: 42.556 ng
RT: 9.281 min Scan# 1205
Delta R.T. -0.006 min
Lab File: BF143530.D
Acq: 21 Aug 2025 15:11

Tgt Ion:172 Resp: 637584

Ion	Ratio	Lower	Upper
172	100		
171	35.4	28.8	43.2
170	23.1	18.8	28.2

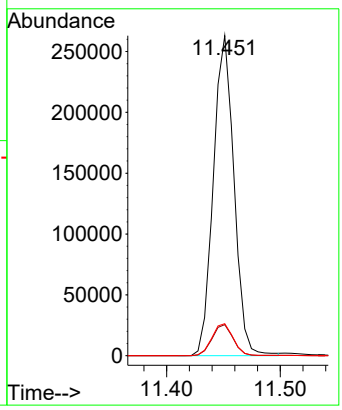




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.451 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143530.D
Acq: 21 Aug 2025 15:11

Tgt Ion:188 Resp: 33293

Ion	Ratio	Lower	Upper
188	100		
94	9.7	7.4	11.2
80	10.0	8.2	12.4



Instrument :
BNA_F
ClientSampleId :
84SB-SRE

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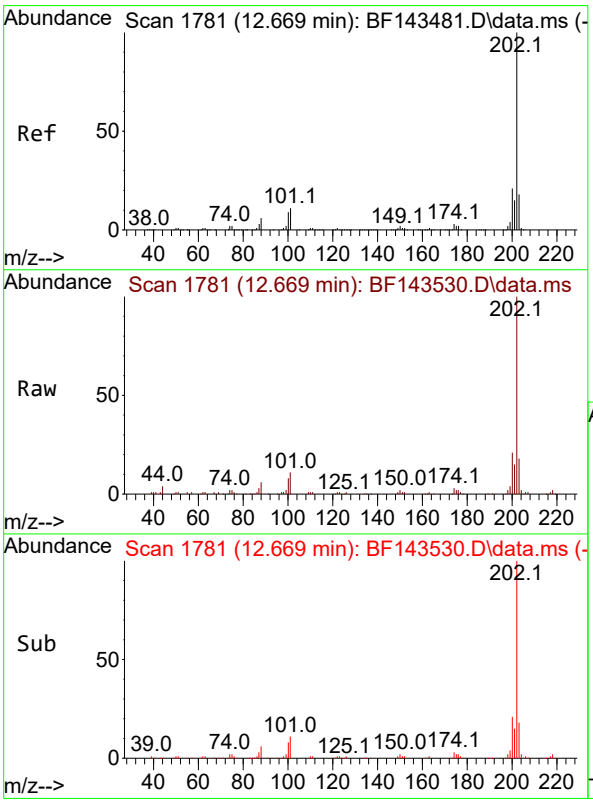
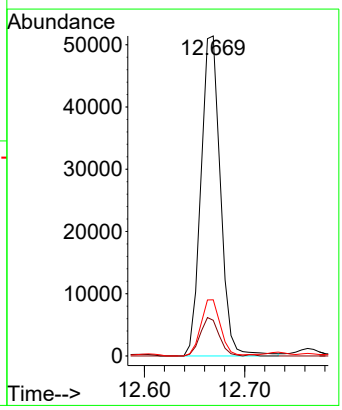
Supervised By :mohammad ahmed 08/22/2025

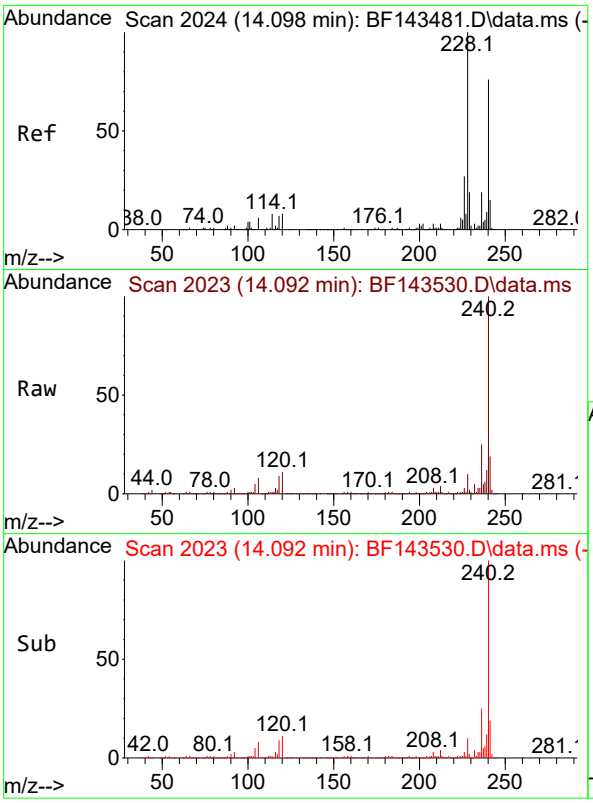


#75
Fluoranthene
Concen: 4.345 ng
RT: 12.669 min Scan# 1781
Delta R.T. -0.006 min
Lab File: BF143530.D
Acq: 21 Aug 2025 15:11

Tgt Ion:202 Resp: 69507

Ion	Ratio	Lower	Upper
202	100		
101	11.1	0.0	31.3
203	17.6	0.0	37.9

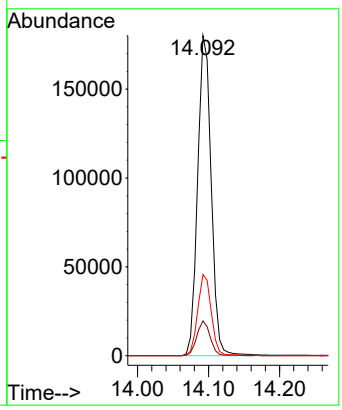




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.092 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF143530.D
Acq: 21 Aug 2025 15:11

Tgt Ion:240 Resp: 23990

Ion	Ratio	Lower	Upper
240	100		
120	10.9	8.6	12.8
236	25.4	20.4	30.6



Instrument :
BNA_F
ClientSampleId :
84SB-SRE

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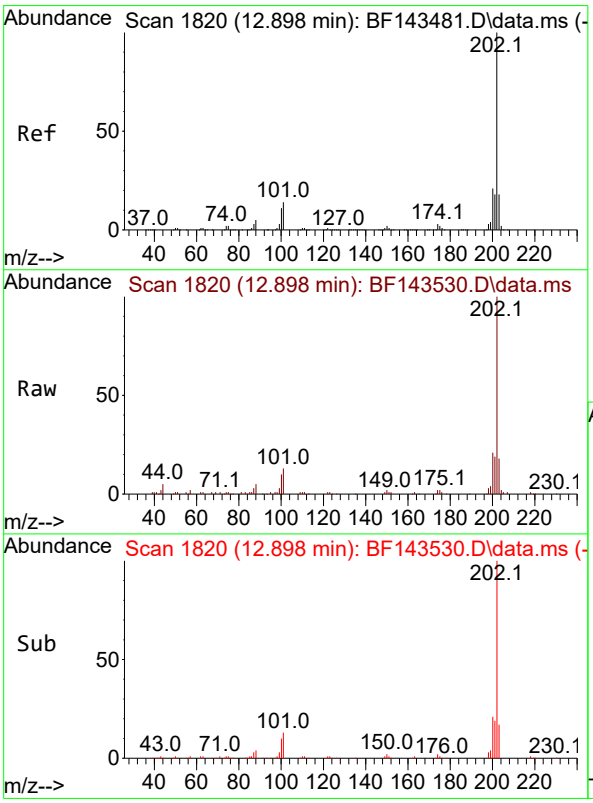
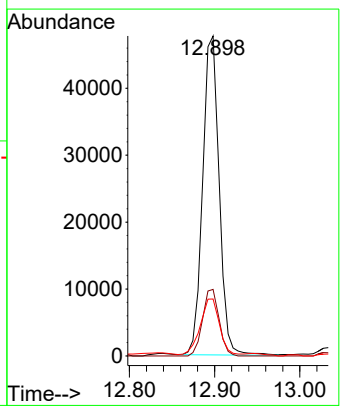
Reviewed By :Rahul Chavli 08/22/2025
Supervised By :mohammad ahmed 08/22/2025

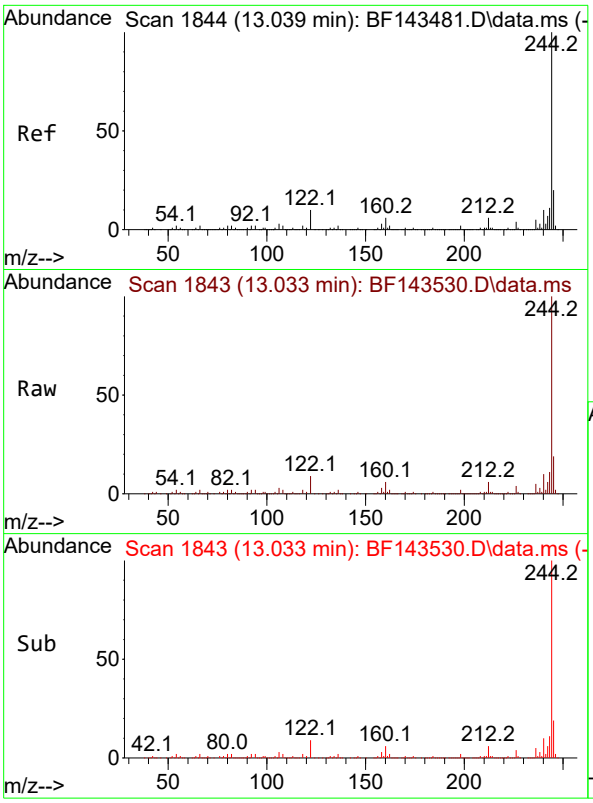


#78
Pyrene
Concen: 3.253 ng
RT: 12.898 min Scan# 1820
Delta R.T. -0.006 min
Lab File: BF143530.D
Acq: 21 Aug 2025 15:11

Tgt Ion:202 Resp: 64191

Ion	Ratio	Lower	Upper
202	100		
200	20.8	17.0	25.4
203	17.8	14.3	21.5

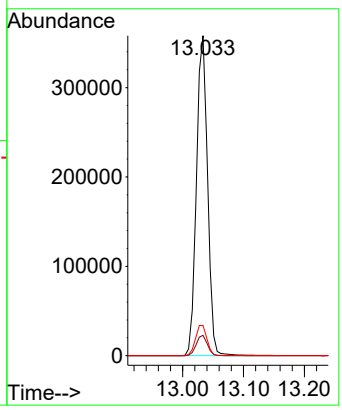




#79
Terphenyl-d14
Concen: 33.024 ng
RT: 13.033 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143530.D
Acq: 21 Aug 2025 15:11

Tgt Ion:244 Resp: 45401

Ion	Ratio	Lower	Upper
244	100		
212	6.3	5.2	7.8
122	9.5	7.9	11.9



Instrument :
BNA_F
ClientSampleId :
84SB-SRE

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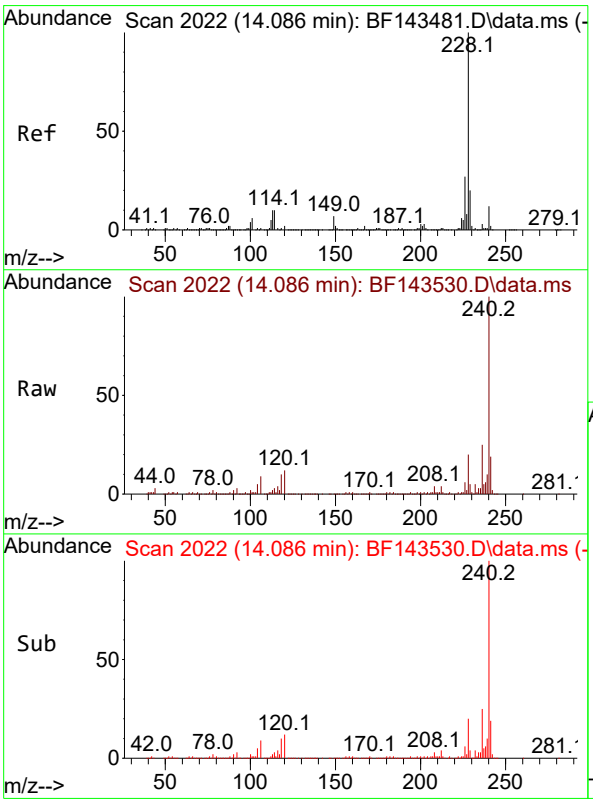
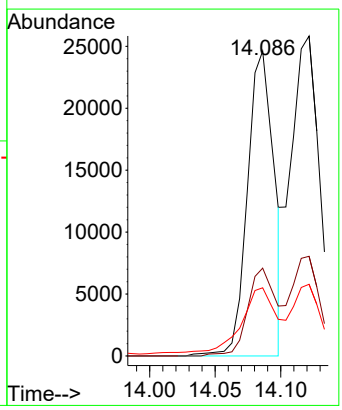
Supervised By :mohammad ahmed 08/22/2025

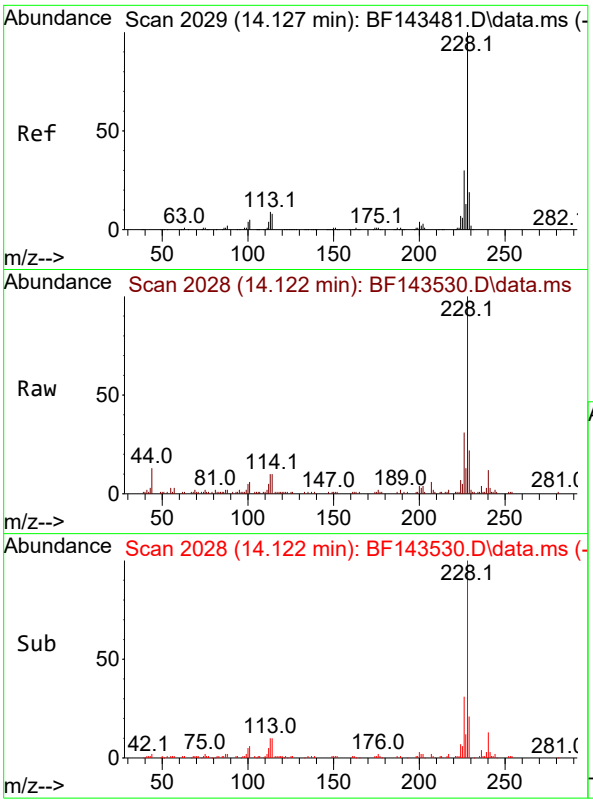


#81
Benzo(a)anthracene
Concen: 2.237 ng
RT: 14.086 min Scan# 2022
Delta R.T. -0.006 min
Lab File: BF143530.D
Acq: 21 Aug 2025 15:11

Tgt Ion:228 Resp: 34552

Ion	Ratio	Lower	Upper
228	100		
226	28.8	21.7	32.5
229	22.3	15.7	23.5

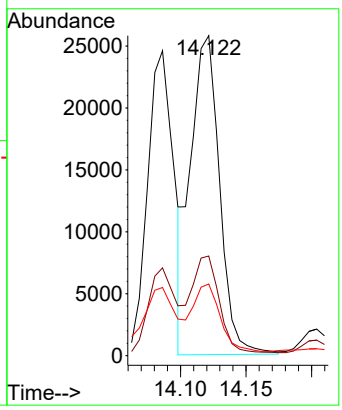




#83
Chrysene
Concen: 2.857 ng
RT: 14.122 min Scan# 2(
Delta R.T. -0.006 min
Lab File: BF143530.D
Acq: 21 Aug 2025 15:11

Tgt Ion:228 Resp: 3966(

Ion	Ratio	Lower	Upper
228	100		
226	31.2	23.7	35.5
229	22.4	15.7	23.5



Instrument :
BNA_F
ClientSampleId :
84SB-SRE

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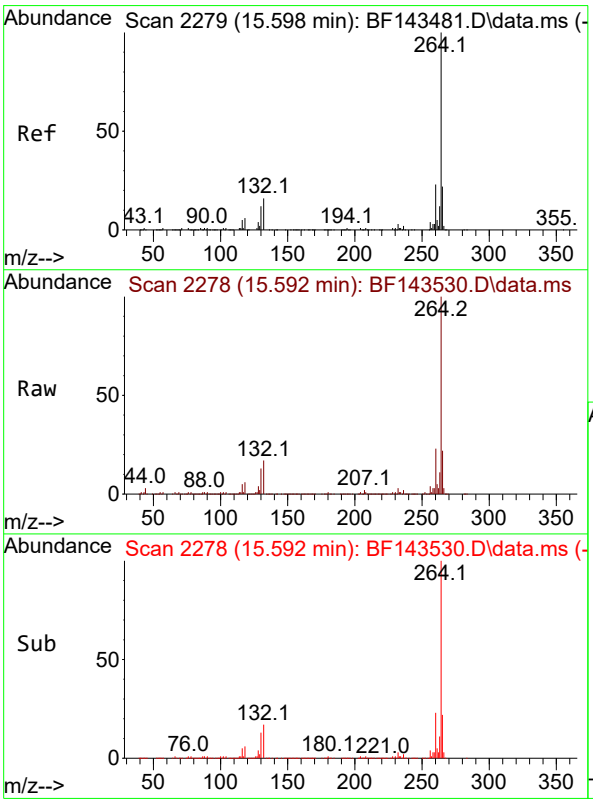
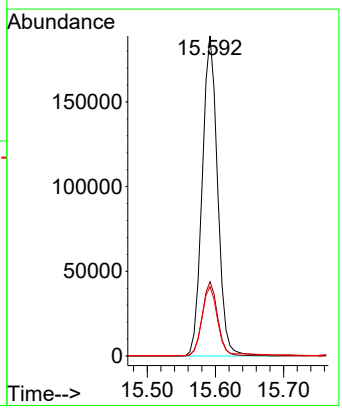
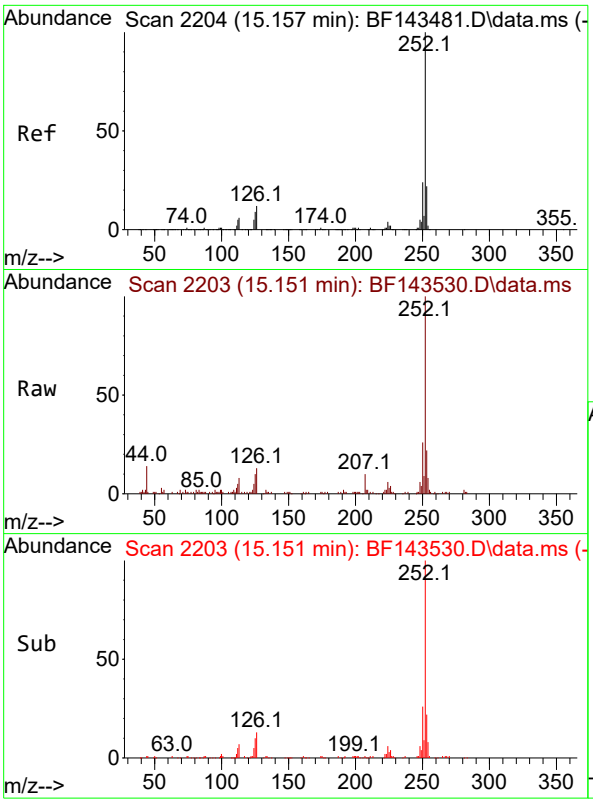


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.592 min Scan# 2278
Delta R.T. -0.006 min
Lab File: BF143530.D
Acq: 21 Aug 2025 15:11

Tgt Ion:264 Resp: 296752

Ion	Ratio	Lower	Upper
264	100		
260	23.2	18.7	28.1
265	21.6	17.6	26.4

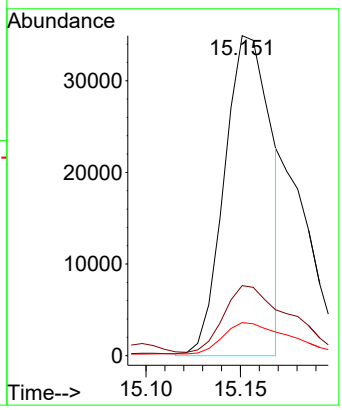




#88
Benzo(b)fluoranthene
Concen: 3.628 ng m
RT: 15.151 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF143530.D
Acq: 21 Aug 2025 15:11

Tgt Ion:252 Resp: 5985

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.5	26.3
125	10.4	7.4	11.0



Instrument :
BNA_F
ClientSampleId :
84SB-SRE

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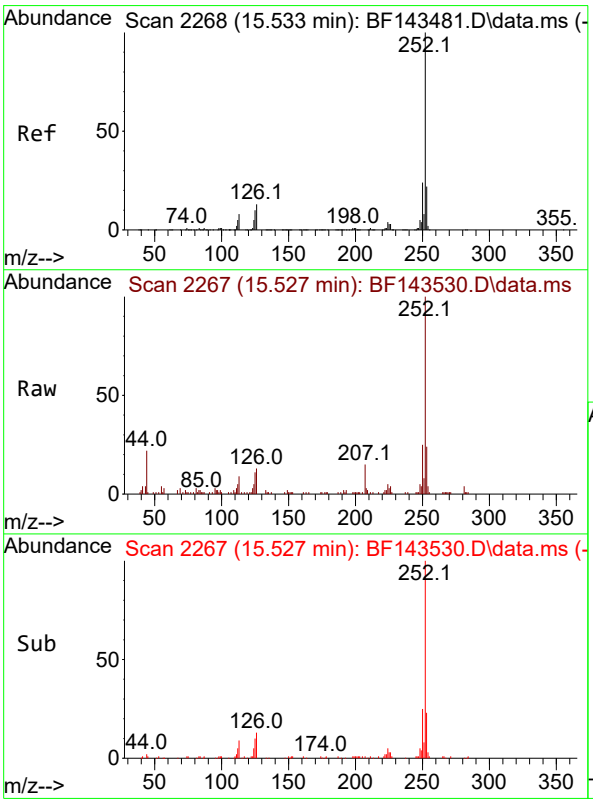
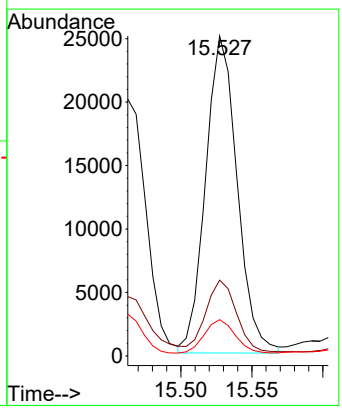


#90
Benzo(a)pyrene
Concen: 2.524 ng
RT: 15.527 min Scan# 2267
Delta R.T. -0.012 min
Lab File: BF143530.D
Acq: 21 Aug 2025 15:11

Tgt Ion:252 Resp: 38651

Ion	Ratio	Lower	Upper
252	100		
253	23.7	17.4	26.0
125	11.4	8.2	12.2



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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	84SB-W	SDG No.:	Q2819
Lab Sample ID:	Q2819-11	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	86.8
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143531.D	1	08/15/25 08:25	08/21/25 15:40	PB169259

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
100-52-7	Benzaldehyde	310	U	180	310	380	ug/Kg
108-95-2	Phenol	150	U	25.4	150	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	150	U	28.0	150	200	ug/Kg
95-57-8	2-Chlorophenol	150	U	28.1	150	200	ug/Kg
95-48-7	2-Methylphenol	150	U	34.4	150	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	150	U	43.1	150	200	ug/Kg
98-86-2	Acetophenone	150	U	33.9	150	200	ug/Kg
65794-96-9	3+4-Methylphenols	310	U	47.3	310	380	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	92.0	U	54.5	92.0	92.0	ug/Kg
67-72-1	Hexachloroethane	150	U	20.2	150	200	ug/Kg
98-95-3	Nitrobenzene	150	U	21.1	150	200	ug/Kg
78-59-1	Isophorone	150	U	37.7	150	200	ug/Kg
88-75-5	2-Nitrophenol	150	U	67.0	150	200	ug/Kg
105-67-9	2,4-Dimethylphenol	150	U	74.6	150	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	150	U	35.4	150	200	ug/Kg
120-83-2	2,4-Dichlorophenol	150	U	32.6	150	200	ug/Kg
91-20-3	Naphthalene	150	U	26.1	150	200	ug/Kg
106-47-8	4-Chloroaniline	150	U	40.7	150	200	ug/Kg
87-68-3	Hexachlorobutadiene	150	U	29.1	150	200	ug/Kg
105-60-2	Caprolactam	310	U	59.9	310	380	ug/Kg
59-50-7	4-Chloro-3-methylphenol	150	U	33.0	150	200	ug/Kg
91-57-6	2-Methylnaphthalene	150	U	29.5	150	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	310	U	130	310	380	ug/Kg
88-06-2	2,4,6-Trichlorophenol	150	U	22.8	150	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	150	U	33.5	150	200	ug/Kg
92-52-4	1,1-Biphenyl	150	U	25.1	150	200	ug/Kg
91-58-7	2-Chloronaphthalene	150	U	25.9	150	200	ug/Kg
88-74-4	2-Nitroaniline	150	U	55.3	150	200	ug/Kg
131-11-3	Dimethylphthalate	150	U	31.2	150	200	ug/Kg

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	84SB-W	SDG No.:	Q2819
Lab Sample ID:	Q2819-11	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	86.8
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143531.D	1	08/15/25 08:25	08/21/25 15:40	PB169259

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	150	U	33.3	150	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	150	U	38.7	150	200	ug/Kg
99-09-2	3-Nitroaniline	150	U	52.9	150	200	ug/Kg
83-32-9	Acenaphthene	150	U	24.5	150	200	ug/Kg
51-28-5	2,4-Dinitrophenol	310	U	260	310	380	ug/Kg
100-02-7	4-Nitrophenol	310	U	120	310	380	ug/Kg
132-64-9	Dibenzofuran	150	U	26.1	150	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	150	U	57.6	150	200	ug/Kg
84-66-2	Diethylphthalate	150	U	32.6	150	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	150	U	30.7	150	200	ug/Kg
86-73-7	Fluorene	150	U	29.1	150	200	ug/Kg
100-01-6	4-Nitroaniline	150	U	73.9	150	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	310	U	120	310	380	ug/Kg
86-30-6	n-Nitrosodiphenylamine	150	U	37.9	150	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	150	U	32.0	150	200	ug/Kg
118-74-1	Hexachlorobenzene	150	U	29.1	150	200	ug/Kg
1912-24-9	Atrazine	150	U	39.1	150	200	ug/Kg
87-86-5	Pentachlorophenol	310	U	59.0	310	380	ug/Kg
85-01-8	Phenanthrene	150	J	24.0	150	200	ug/Kg
120-12-7	Anthracene	150	U	38.3	150	200	ug/Kg
86-74-8	Carbazole	150	U	35.9	150	200	ug/Kg
84-74-2	Di-n-butylphthalate	150	U	55.1	150	200	ug/Kg
206-44-0	Fluoranthene	200		34.5	150	200	ug/Kg
129-00-0	Pyrene	130	J	41.4	150	200	ug/Kg
85-68-7	Butylbenzylphthalate	150	U	82.1	150	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	310	U	42.2	310	380	ug/Kg
56-55-3	Benzo(a)anthracene	90.8	J	26.5	150	200	ug/Kg
218-01-9	Chrysene	85.6	J	22.9	150	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	150	U	68.1	150	200	ug/Kg
117-84-0	Di-n-octyl phthalate	310	U	99.9	310	380	ug/Kg
205-99-2	Benzo(b)fluoranthene	92.6	J	21.9	150	200	ug/Kg

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Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	84SB-W	SDG No.:	Q2819
Lab Sample ID:	Q2819-11	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	86.8
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143531.D	1	08/15/25 08:25	08/21/25 15:40	PB169259

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	150	U	25.8	150	200	ug/Kg
50-32-8	Benzo(a)pyrene	150	U	33.9	150	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	150	U	33.5	150	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	150	U	31.5	150	200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	150	U	29.6	150	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	150	U	29.5	150	200	ug/Kg
123-91-1	1,4-Dioxane	150	U	52.0	150	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	150	U	31.5	150	200	ug/Kg
SURROGATES							
367-12-4	2-Fluorophenol	69.0		35 - 115		46%	SPK: 150
13127-88-3	Phenol-d6	70.0		34 - 127		47%	SPK: 150
4165-60-0	Nitrobenzene-d5	50.9		37 - 122		51%	SPK: 100
321-60-8	2-Fluorobiphenyl	51.2		44 - 115		51%	SPK: 100
118-79-6	2,4,6-Tribromophenol	62.6		39 - 132		42%	SPK: 150
1718-51-0	Terphenyl-d14	37.3	*	54 - 127		37%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	122000	6.922				
1146-65-2	Naphthalene-d8	463000	8.204				
15067-26-2	Acenaphthene-d10	234000	9.963				
1517-22-2	Phenanthrene-d10	318000	11.451				
1719-03-5	Chrysene-d12	230000	14.092				
1520-96-3	Perylene-d12	283000	15.592				
TENTATIVE IDENTIFIED COMPOUNDS							
000994-05-8	Butane, 2-methoxy-2-methyl-	1300	J			2.26	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	200	AB			5.16	ug/Kg
000119-61-9	Benzophenone	230	J			10.7	ug/Kg

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Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	84SB-W	SDG No.:	Q2819
Lab Sample ID:	Q2819-11	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	86.8
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143531.D	1	08/15/25 08:25	08/21/25 15:40	PB169259

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	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\BF082125\
Data File : BF143531.D
Acq On : 21 Aug 2025 15:40
Operator : RC/JU
Sample : Q2819-11
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
84SB-W

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 08/22/2025
Supervised By :mohammad ahmed 08/22/2025

Quant Time: Aug 21 16:21:31 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 21 06:12:21 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.922	152	122249	20.000	ng	0.00
21) Naphthalene-d8	8.204	136	463361	20.000	ng	0.00
39) Acenaphthene-d10	9.963	164	234484	20.000	ng	0.00
64) Phenanthrene-d10	11.451	188	317712	20.000	ng	0.00
76) Chrysene-d12	14.092	240	229692	20.000	ng	-0.01
86) Perylene-d12	15.592	264	283075	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.563	112	483086	69.002	ng	0.00
7) Phenol-d6	6.557	99	604566	69.954	ng	-0.02
23) Nitrobenzene-d5	7.481	82	403850	50.860	ng	-0.02
42) 2,4,6-Tribromophenol	10.751	330	136637	62.600	ng	-0.01
45) 2-Fluorobiphenyl	9.281	172	726749	51.222	ng	0.00
79) Terphenyl-d14	13.033	244	491548	37.344	ng	0.00
Target Compounds						Qvalue
71) Phenanthrene	11.475	178	65872	3.872	ng	99
75) Fluoranthene	12.669	202	79522	5.209	ng	99
78) Pyrene	12.898	202	65892	3.487	ng	98
81) Benzo(a)anthracene	14.086	228	35019	2.368	ng	99
83) Chrysene	14.121	228	29650	2.231	ng	98
88) Benzo(b)fluoranthene	15.157	252	38002m	2.415	ng	

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

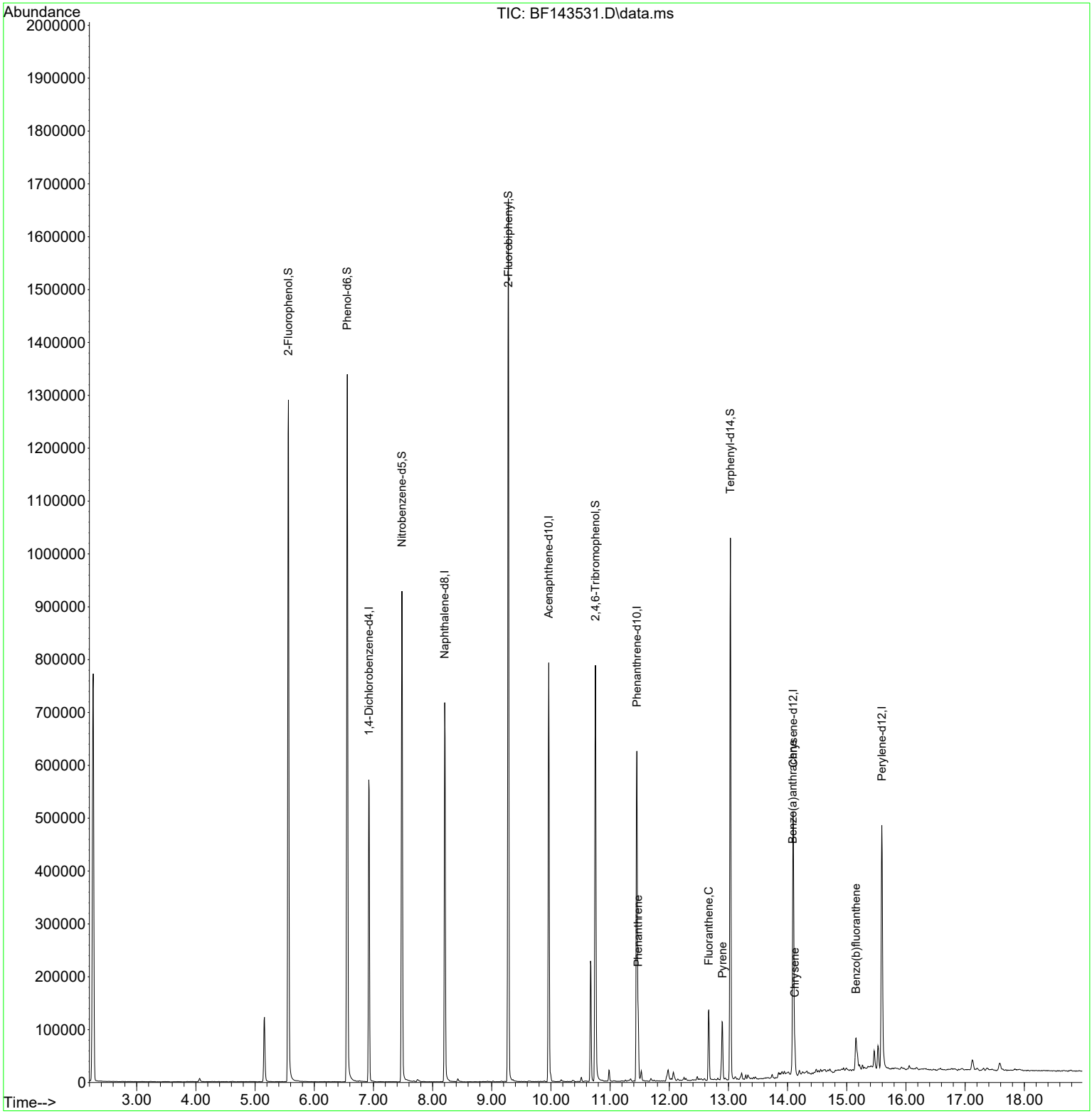
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
Data File : BF143531.D
Acq On : 21 Aug 2025 15:40
Operator : RC/JU
Sample : Q2819-11
Misc :
ALS Vial : 15 Sample Multiplier: 1

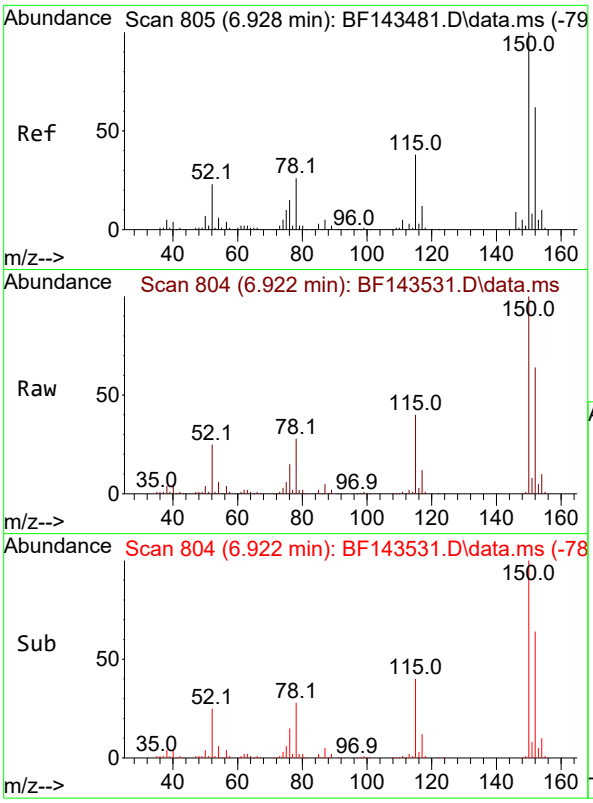
Quant Time: Aug 21 16:21:31 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 21 06:12:21 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
84SB-W

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 08/22/2025
Supervised By :mohammad ahmed 08/22/2025

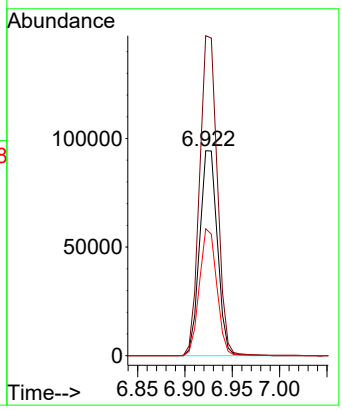




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.922 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF143531.D
Acq: 21 Aug 2025 15:40

Tgt Ion:152 Resp: 12224

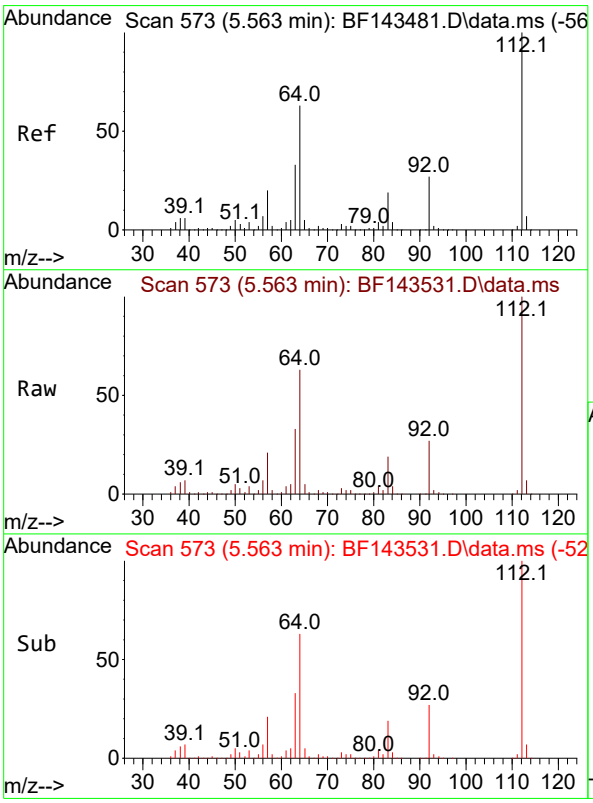
Ion	Ratio	Lower	Upper
152	100		
150	156.1	128.9	193.3
115	61.9	49.2	73.8



Instrument :
BNA_F
ClientSampleId :
84SB-W

Manual Integrations
APPROVED

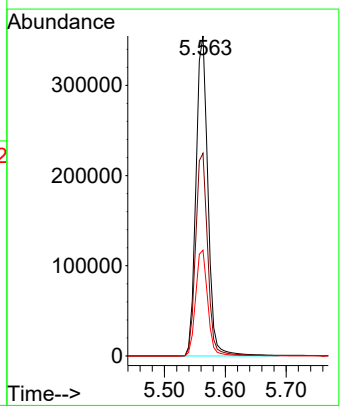
Reviewed By :Rahul Chavli 08/22/2025
Supervised By :mohammad ahmed 08/22/2025

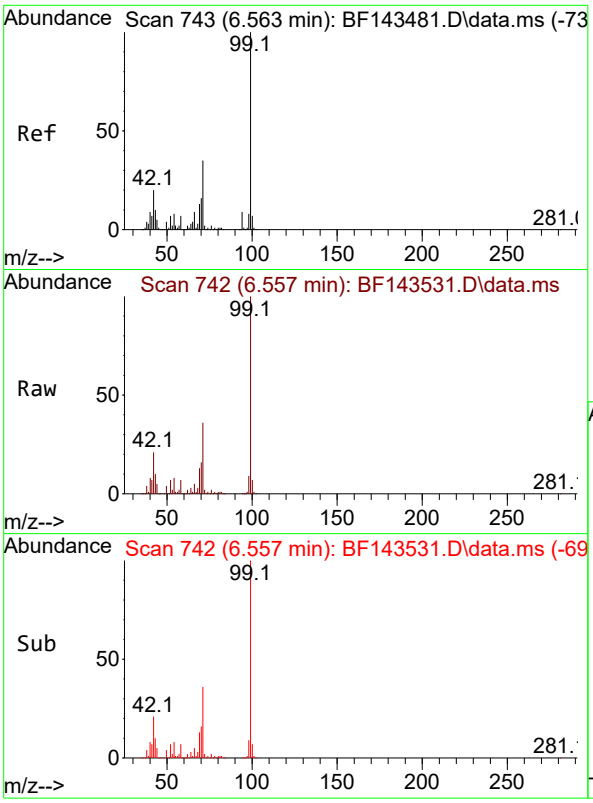


#5
2-Fluorophenol
Concen: 69.002 ng
RT: 5.563 min Scan# 573
Delta R.T. 0.000 min
Lab File: BF143531.D
Acq: 21 Aug 2025 15:40

Tgt Ion:112 Resp: 483086

Ion	Ratio	Lower	Upper
112	100		
64	63.3	50.4	75.6
63	33.1	26.4	39.6

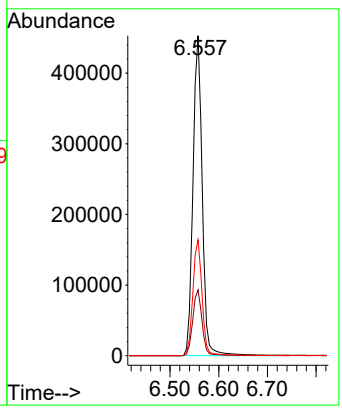




#7
Phenol-d6
Concen: 69.954 ng
RT: 6.557 min Scan# 74
Delta R.T. -0.018 min
Lab File: BF143531.D
Acq: 21 Aug 2025 15:40

Tgt Ion: 99 Resp: 60456

Ion	Ratio	Lower	Upper
99	100		
42	20.5	16.3	24.5
71	36.3	28.2	42.2



Instrument :
BNA_F
ClientSampleId :
84SB-W

Manual Integrations
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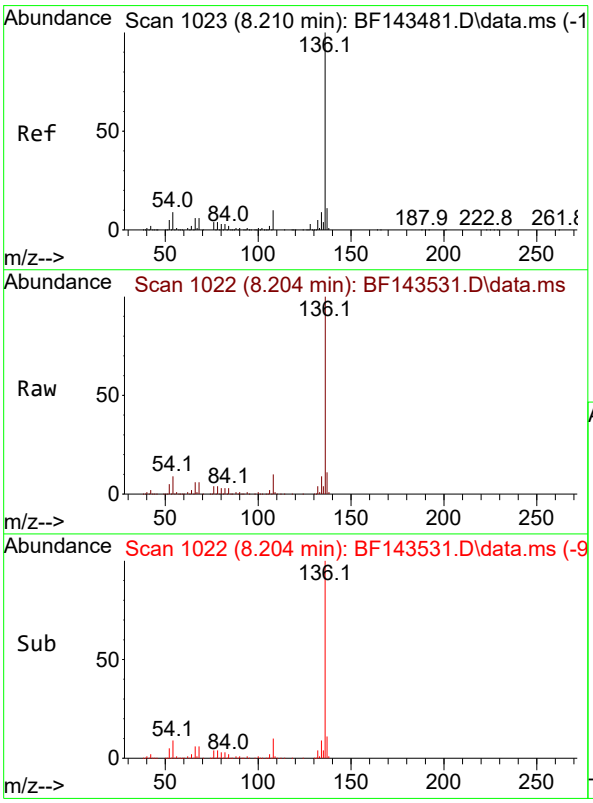
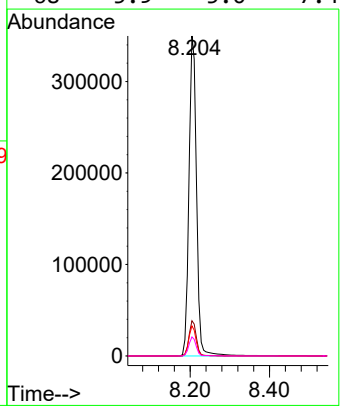
Reviewed By :Rahul Chavli 08/22/2025
Supervised By :mohammad ahmed 08/22/2025

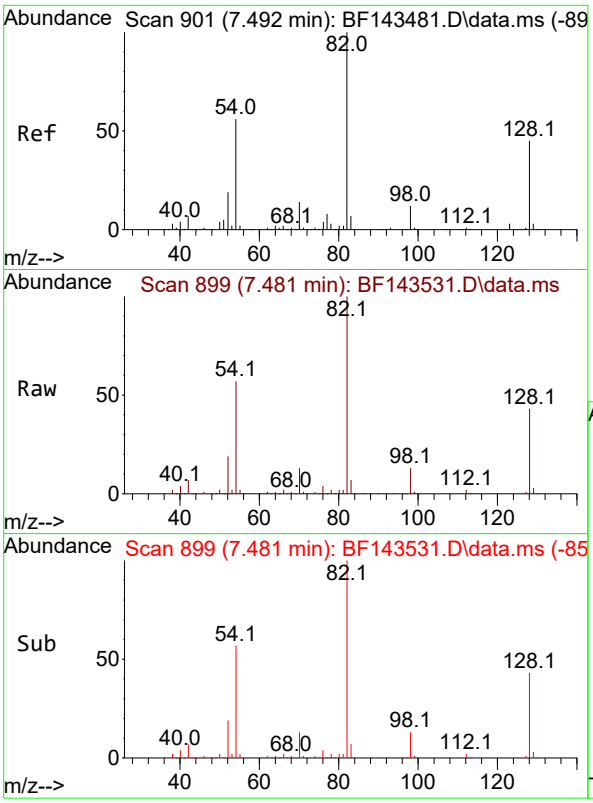


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.204 min Scan# 1022
Delta R.T. -0.006 min
Lab File: BF143531.D
Acq: 21 Aug 2025 15:40

Tgt Ion:136 Resp: 463361

Ion	Ratio	Lower	Upper
136	100		
137	11.0	9.0	13.4
54	9.4	7.4	11.2
68	5.9	5.0	7.4

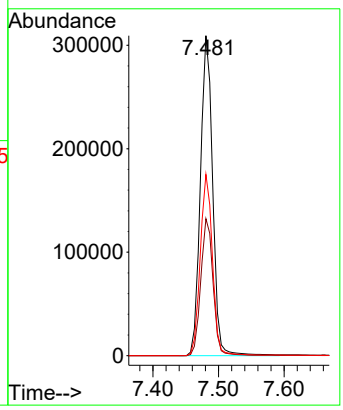




#23
Nitrobenzene-d5
Concen: 50.860 ng
RT: 7.481 min Scan# 8
Delta R.T. -0.018 min
Lab File: BF143531.D
Acq: 21 Aug 2025 15:40

Tgt Ion: 82 Resp: 40385

Ion	Ratio	Lower	Upper
82	100		
128	42.8	35.5	53.3
54	56.7	44.3	66.5



Instrument :
BNA_F
ClientSampleId :
84SB-W

Manual Integrations
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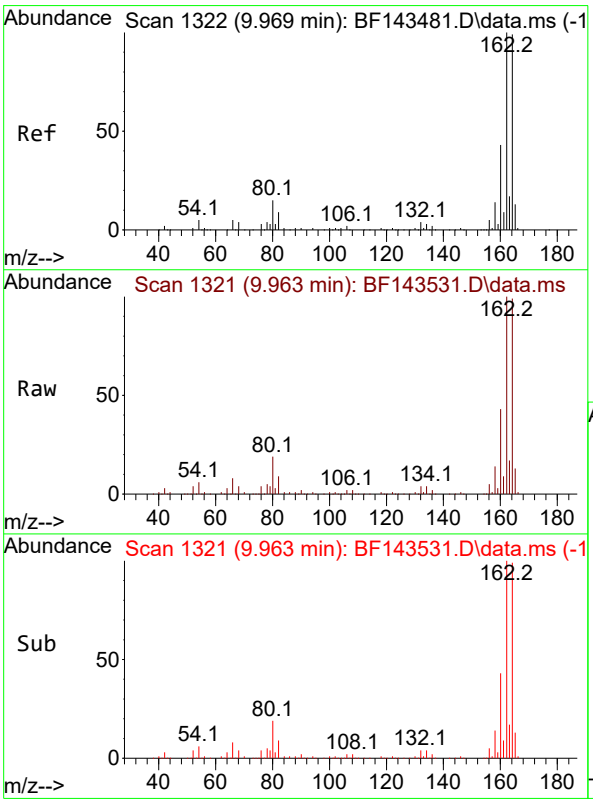
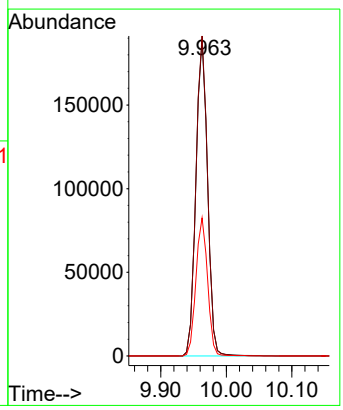
Reviewed By :Rahul Chavli 08/22/2025
Supervised By :mohammad ahmed 08/22/2025

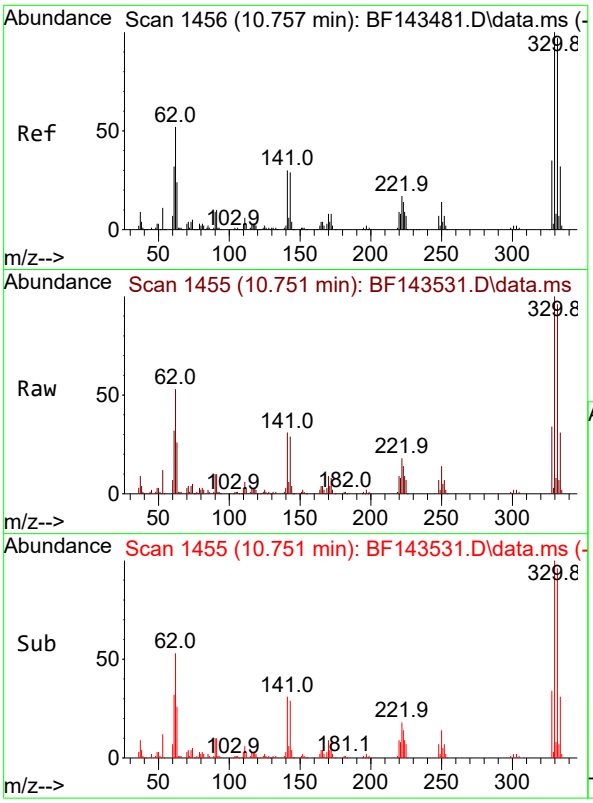


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.963 min Scan# 1321
Delta R.T. -0.006 min
Lab File: BF143531.D
Acq: 21 Aug 2025 15:40

Tgt Ion:164 Resp: 234484

Ion	Ratio	Lower	Upper
164	100		
162	101.1	80.5	120.7
160	43.6	34.3	51.5

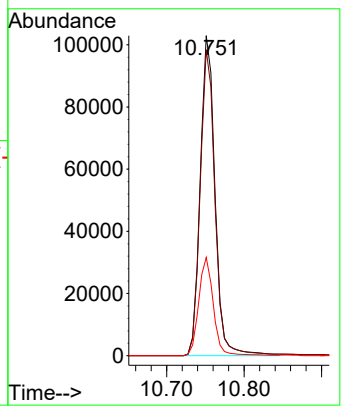




#42
2,4,6-Tribromophenol
Concen: 62.600 ng
RT: 10.751 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF143531.D
Acq: 21 Aug 2025 15:40

Tgt Ion:330 Resp: 13663

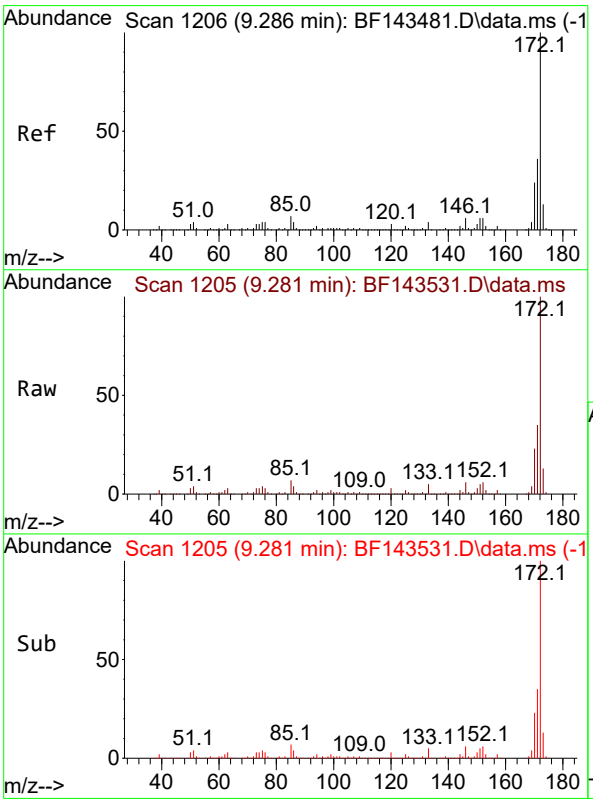
Ion	Ratio	Lower	Upper
330	100		
332	96.0	78.0	117.0
141	30.4	23.7	35.5



Instrument :
BNA_F
ClientSampleId :
84SB-W

Manual Integrations
APPROVED

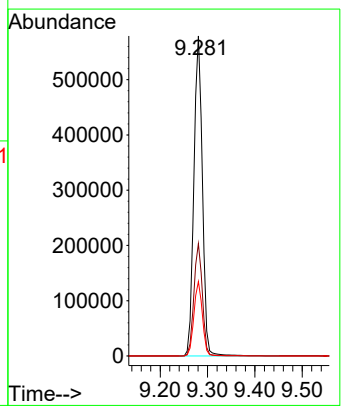
Reviewed By :Rahul Chavli 08/22/2025
Supervised By :mohammad ahmed 08/22/2025

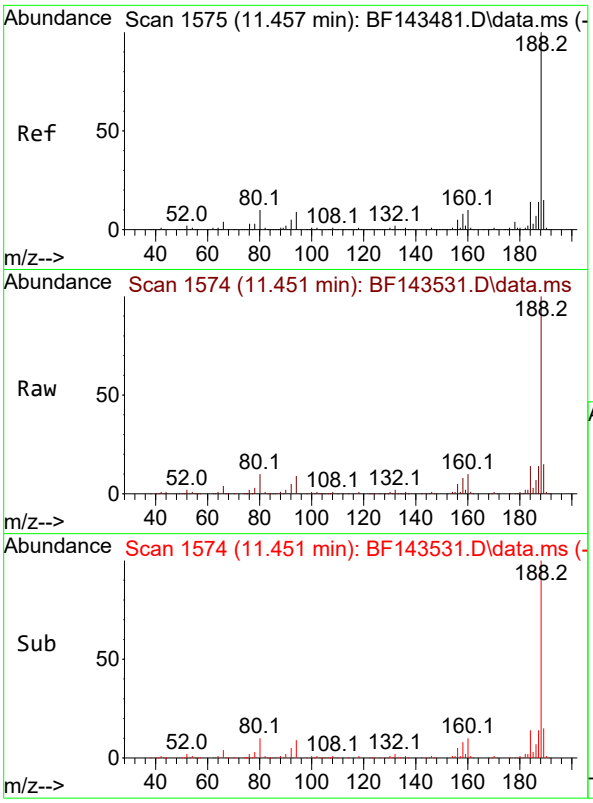


#45
2-Fluorobiphenyl
Concen: 51.222 ng
RT: 9.281 min Scan# 1205
Delta R.T. -0.006 min
Lab File: BF143531.D
Acq: 21 Aug 2025 15:40

Tgt Ion:172 Resp: 726749

Ion	Ratio	Lower	Upper
172	100		
171	35.1	28.8	43.2
170	23.3	18.8	28.2





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.451 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143531.D
Acq: 21 Aug 2025 15:40

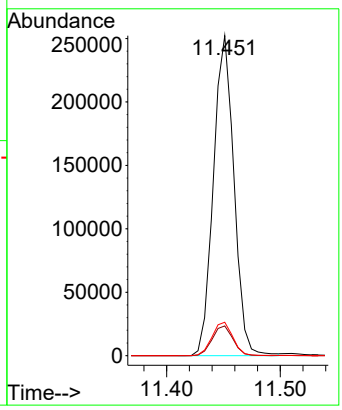
Instrument :
BNA_F
ClientSampleId :
84SB-W

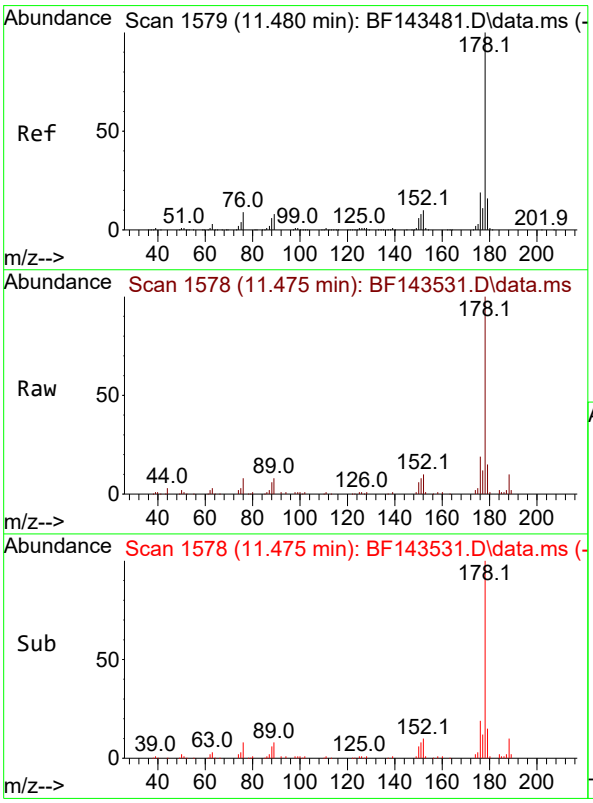
Tgt Ion:188 Resp: 31771

Ion	Ratio	Lower	Upper
188	100		
94	9.3	7.4	11.2
80	10.5	8.2	12.4

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 08/22/2025
Supervised By :mohammad ahmed 08/22/2025

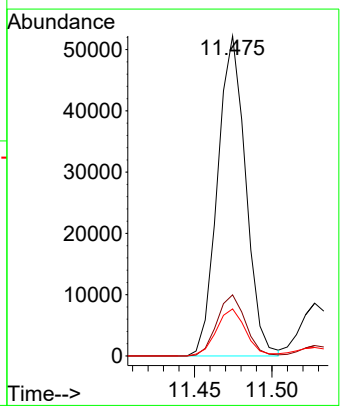


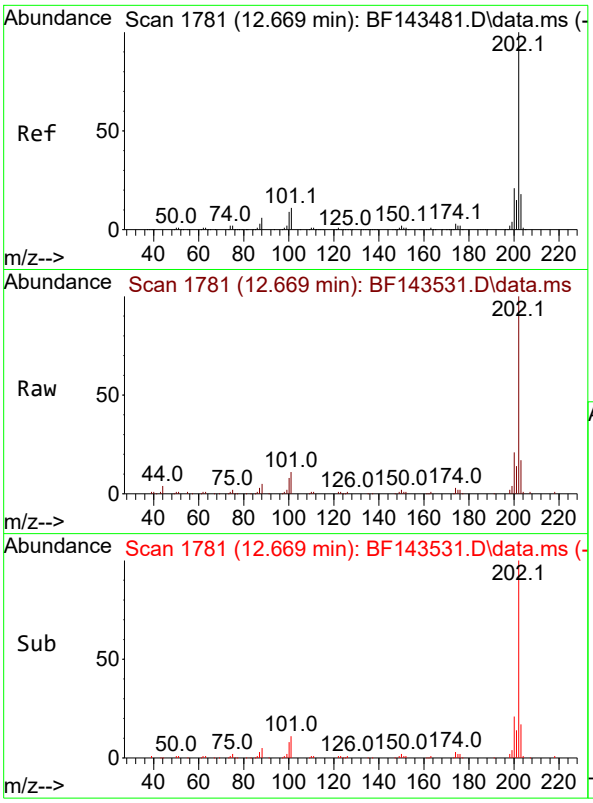


#71
Phenanthrene
Concen: 3.872 ng
RT: 11.475 min Scan# 1578
Delta R.T. -0.006 min
Lab File: BF143531.D
Acq: 21 Aug 2025 15:40

Tgt Ion:178 Resp: 65872

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.5	23.3
179	14.7	12.5	18.7





#75
Fluoranthene
Concen: 5.209 ng
RT: 12.669 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143531.D
Acq: 21 Aug 2025 15:40

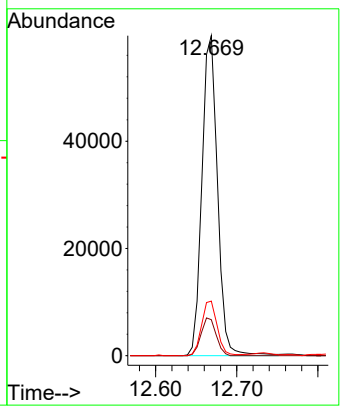
Tgt Ion:202 Resp: 7952

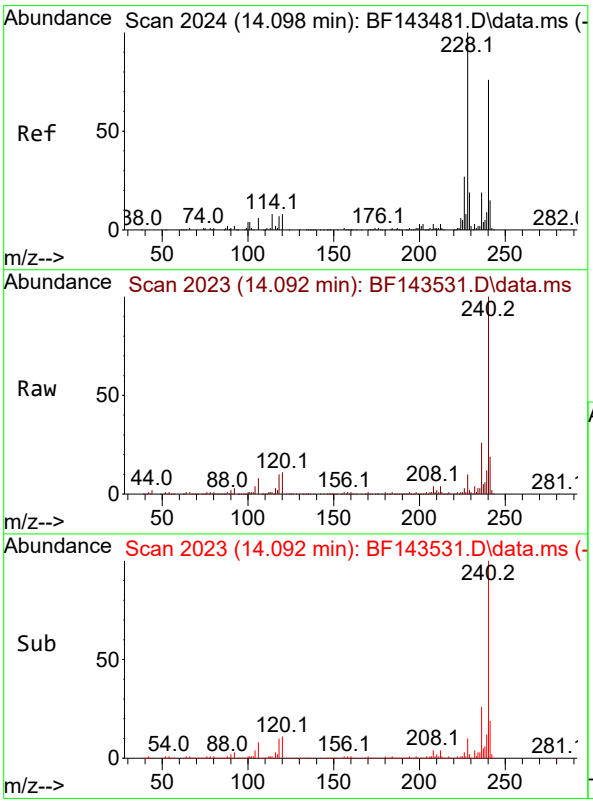
Ion	Ratio	Lower	Upper
202	100		
101	11.3	0.0	31.3
203	17.1	0.0	37.9

Instrument :
BNA_F
ClientSampleId :
84SB-W

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 08/22/2025
Supervised By :mohammad ahmed 08/22/2025

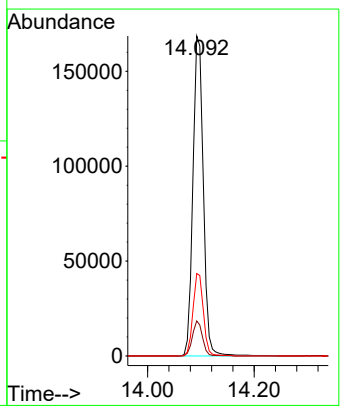


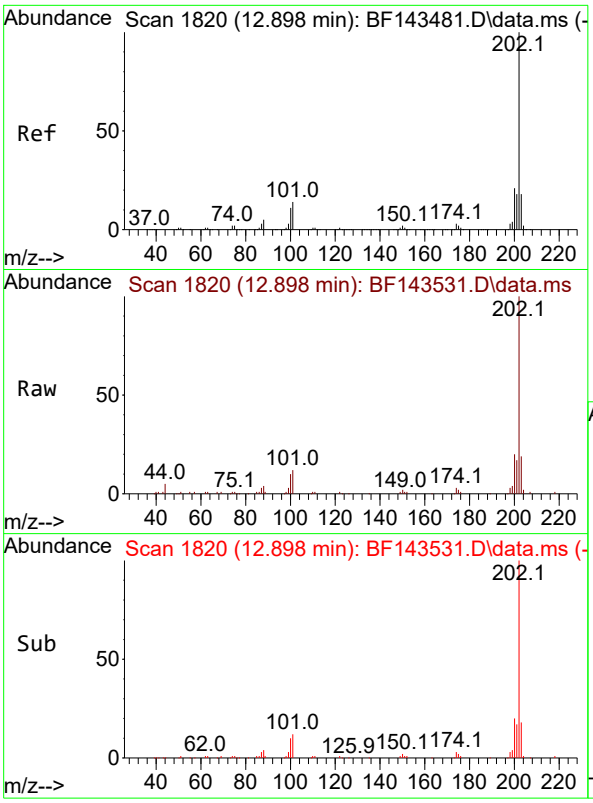


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.092 min Scan# 2023
Delta R.T. -0.012 min
Lab File: BF143531.D
Acq: 21 Aug 2025 15:40

Tgt Ion:240 Resp: 229692

Ion	Ratio	Lower	Upper
240	100		
120	11.0	8.6	12.8
236	25.8	20.4	30.6

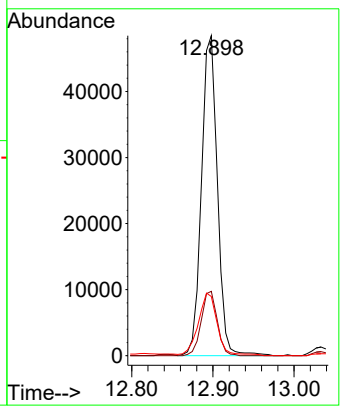




#78
Pyrene
Concen: 3.487 ng
RT: 12.898 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143531.D
Acq: 21 Aug 2025 15:40

Tgt Ion:202 Resp: 6589

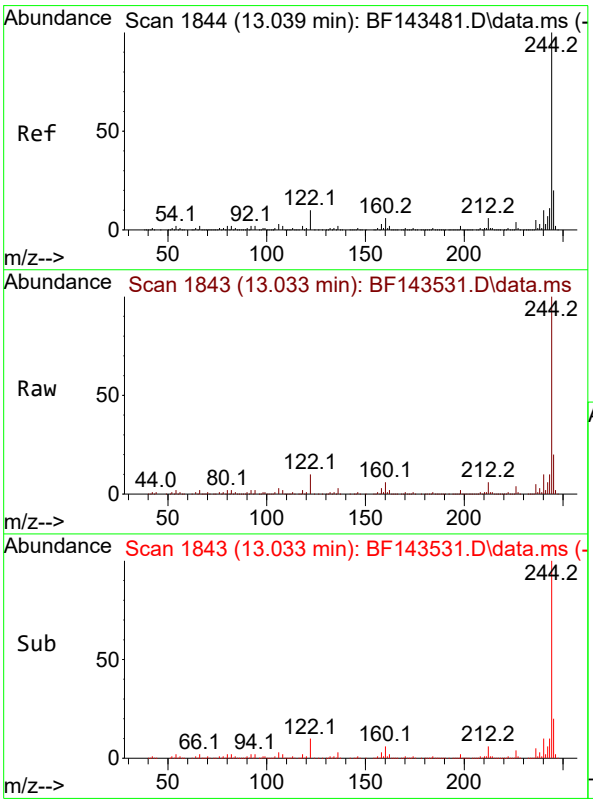
Ion	Ratio	Lower	Upper
202	100		
200	20.1	17.0	25.4
203	18.5	14.3	21.5



Instrument :
BNA_F
ClientSampleId :
84SB-W

Manual Integrations
APPROVED

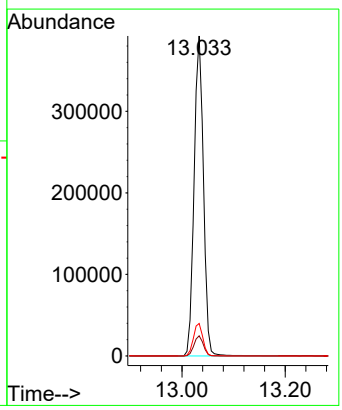
Reviewed By :Rahul Chavli 08/22/2025
Supervised By :mohammad ahmed 08/22/2025

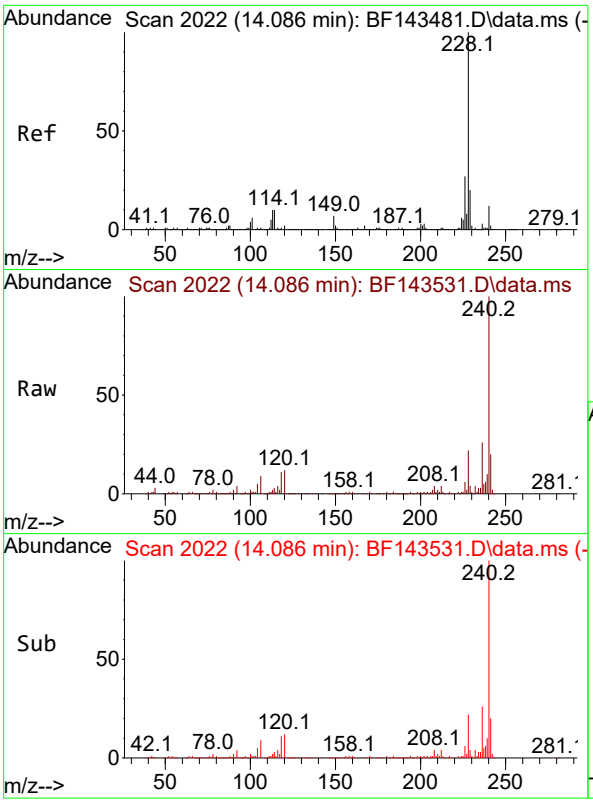


#79
Terphenyl-d14
Concen: 37.344 ng
RT: 13.033 min Scan# 1843
Delta R.T. -0.006 min
Lab File: BF143531.D
Acq: 21 Aug 2025 15:40

Tgt Ion:244 Resp: 491548

Ion	Ratio	Lower	Upper
244	100		
212	6.3	5.2	7.8
122	10.2	7.9	11.9

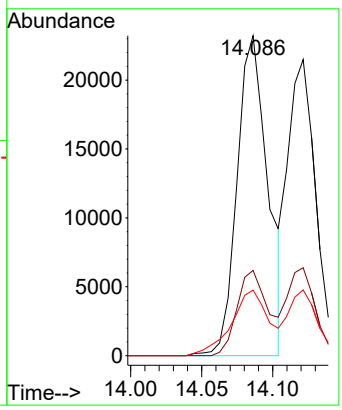




#81
Benzo(a)anthracene
Concen: 2.368 ng
RT: 14.086 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF143531.D
Acq: 21 Aug 2025 15:40

Tgt Ion:228 Resp: 3501

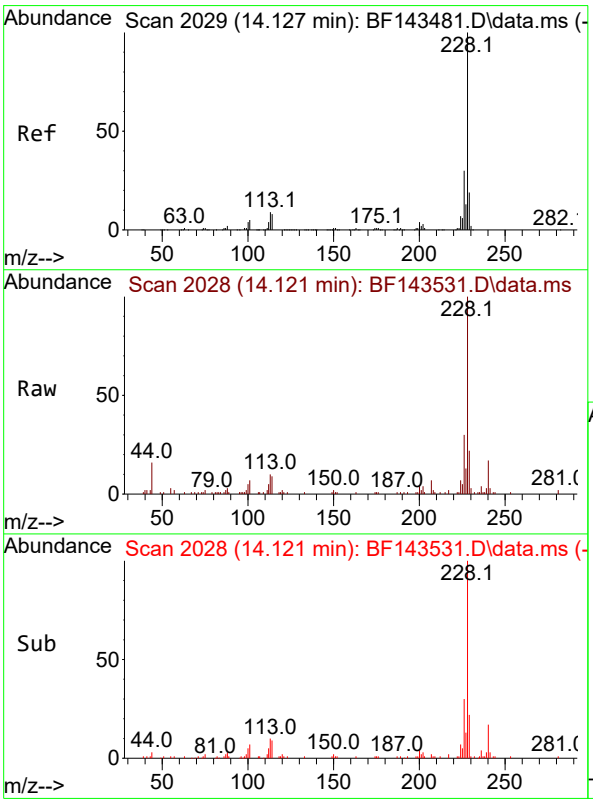
Ion	Ratio	Lower	Upper
228	100		
226	26.6	21.7	32.5
229	20.5	15.7	23.5



Instrument :
BNA_F
ClientSampleId :
84SB-W

Manual Integrations
APPROVED

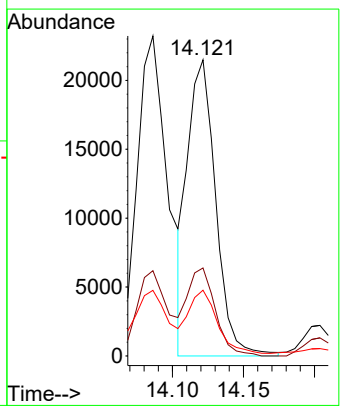
Reviewed By :Rahul Chavli 08/22/2025
Supervised By :mohammad ahmed 08/22/2025

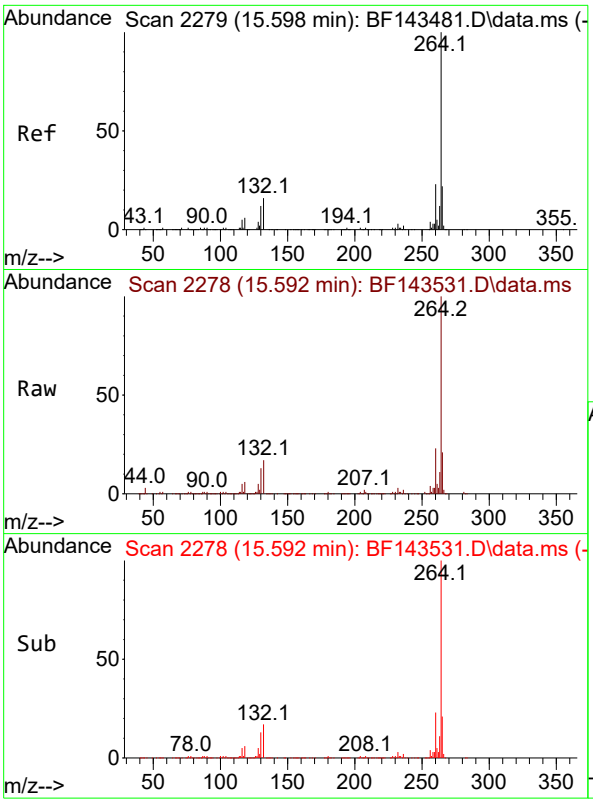


#83
Chrysene
Concen: 2.231 ng
RT: 14.121 min Scan# 2028
Delta R.T. -0.006 min
Lab File: BF143531.D
Acq: 21 Aug 2025 15:40

Tgt Ion:228 Resp: 29650

Ion	Ratio	Lower	Upper
228	100		
226	29.7	23.7	35.5
229	22.2	15.7	23.5

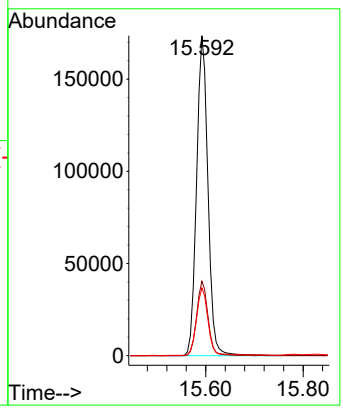




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.592 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF143531.D
Acq: 21 Aug 2025 15:40

Tgt Ion:264 Resp: 28307

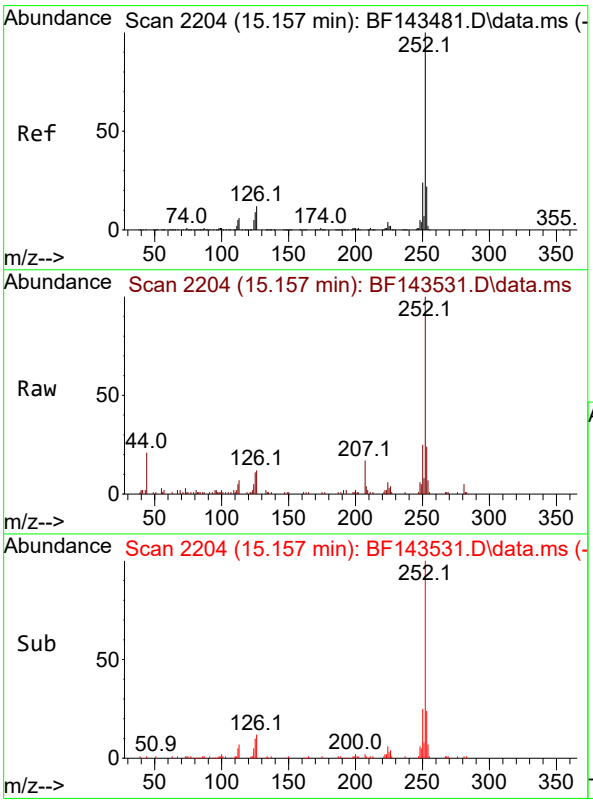
Ion	Ratio	Lower	Upper
264	100		
260	23.2	18.7	28.1
265	21.2	17.6	26.4



Instrument :
BNA_F
ClientSampleId :
84SB-W

Manual Integrations
APPROVED

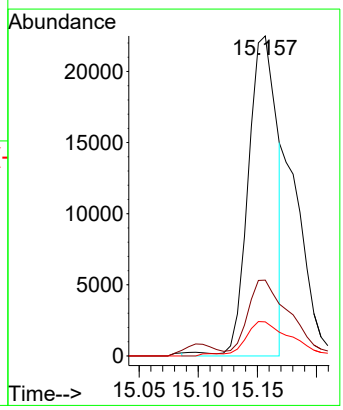
Reviewed By :Rahul Chavli 08/22/2025
Supervised By :mohammad ahmed 08/22/2025



#88
Benzo(b)fluoranthene
Concen: 2.415 ng m
RT: 15.157 min Scan# 2204
Delta R.T. 0.000 min
Lab File: BF143531.D
Acq: 21 Aug 2025 15:40

Tgt Ion:252 Resp: 38002

Ion	Ratio	Lower	Upper
252	100		
253	23.7	17.5	26.3
125	10.6	7.4	11.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
Data File : BF143531.D
Acq On : 21 Aug 2025 15:40
Operator : RC/JU
Sample : Q2819-11
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
84SB-W

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-BF082025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF143531.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.263	4	12	29	rVB	770872	1242593	60.02%	7.376%
2	5.157	496	504	516	rBV	122236	186574	9.01%	1.107%
3	5.563	567	573	597	rBV	1289777	1770494	85.52%	10.509%
4	6.557	736	742	763	rBV	1338338	1787970	86.37%	10.613%
5	6.922	799	804	813	rBV	570761	726072	35.07%	4.310%
6	7.481	894	899	911	rBV	927858	1202555	58.09%	7.138%
7	8.204	1017	1022	1040	rBV	717188	937346	45.28%	5.564%
8	9.281	1199	1205	1210	rBV	1670212	2070230	100.00%	12.288%
9	9.963	1316	1321	1326	rBV	792626	982599	47.46%	5.832%
10	10.669	1436	1441	1450	rBV	227838	291906	14.10%	1.733%
11	10.751	1450	1455	1473	rVV	786370	1028531	49.68%	6.105%
12	10.981	1489	1494	1503	rVB	21078	28017	1.35%	0.166%
13	11.451	1569	1574	1583	rBV2	624329	938207	45.32%	5.569%
14	11.528	1583	1587	1592	rVB	18703	26518	1.28%	0.157%
15	11.980	1656	1664	1670	rBV3	21175	48898	2.36%	0.290%
16	12.069	1675	1679	1687	rVB3	15809	29248	1.41%	0.174%
17	12.669	1776	1781	1786	rBV	133451	174624	8.44%	1.037%
18	12.892	1813	1819	1825	rBV	109825	168146	8.12%	0.998%
19	13.033	1837	1843	1853	rBV	1025236	1294194	62.51%	7.682%
20	13.222	1867	1875	1879	rBV2	12201	21375	1.03%	0.127%
21	14.092	2015	2023	2036	rVB2	499009	794334	38.37%	4.715%
22	15.157	2198	2204	2212	rBV	61106	147984	7.15%	0.878%
23	15.463	2252	2256	2262	rVB	32788	50856	2.46%	0.302%
24	15.527	2263	2267	2272	rVV	42288	62839	3.04%	0.373%
25	15.592	2272	2278	2294	rVB	459546	770643	37.22%	4.574%
26	17.121	2533	2538	2545	rVB2	18243	40145	1.94%	0.238%
27	17.586	2612	2617	2624	rVB	11585	24170	1.17%	0.143%

Sum of corrected areas: 16847068

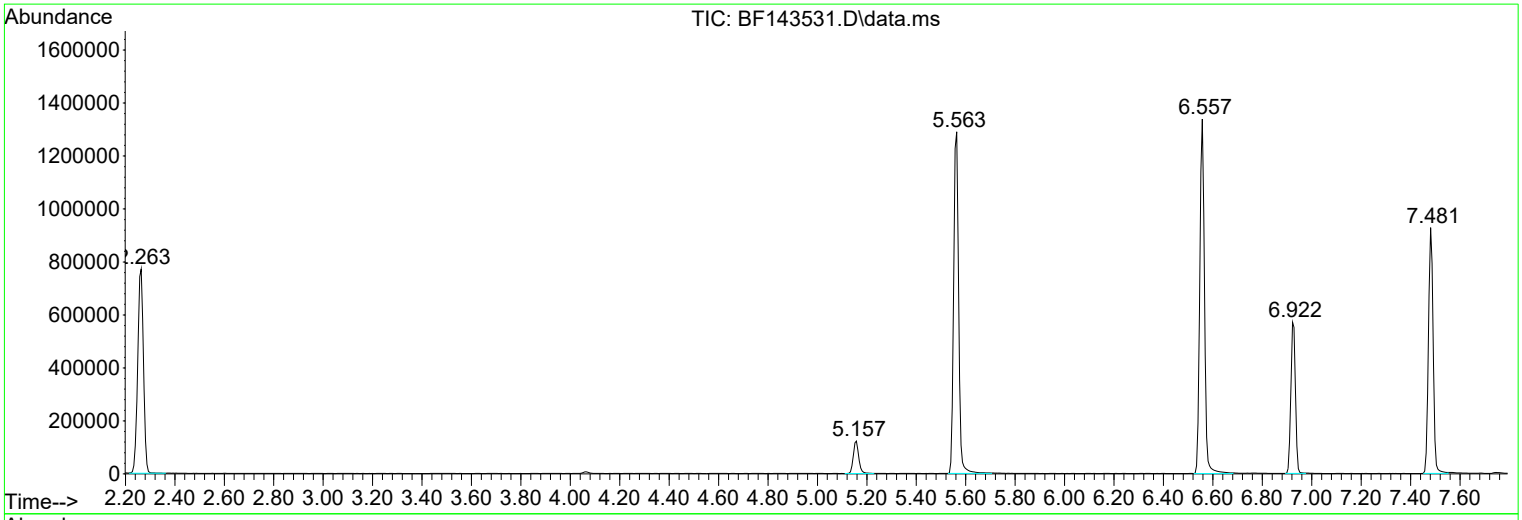
Sample Results: **BF143531.D**

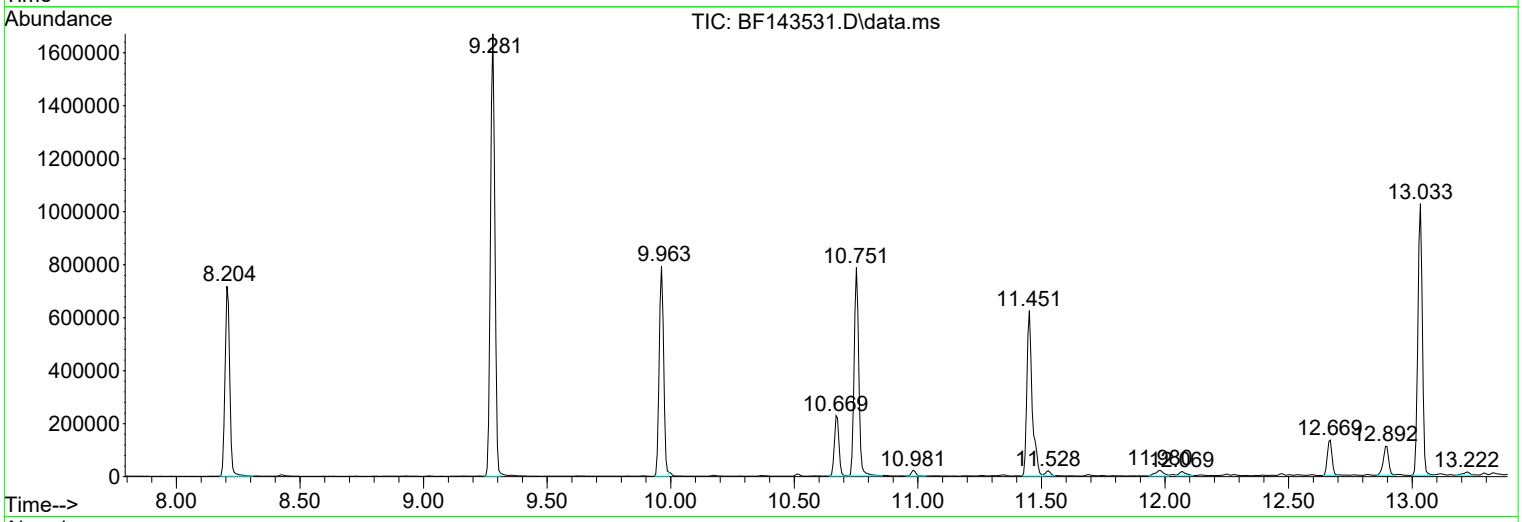
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
Data File : BF143531.D
Acq On : 21 Aug 2025 15:40
Operator : RC/JU
Sample : Q2819-11
Misc :
ALS Vial : 15 Sample Multiplier: 1

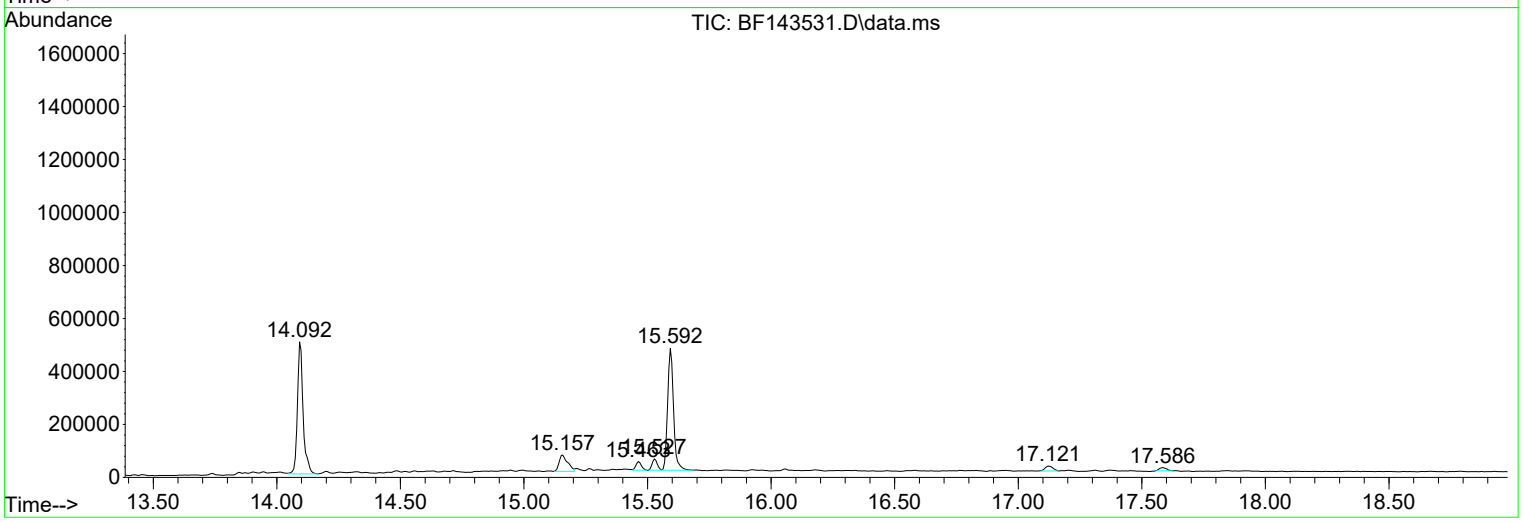
Instrument :
BNA_F
ClientSampleId :
84SB-W

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.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\BF082125\
Data File : BF143531.D
Acq On : 21 Aug 2025 15:40
Operator : RC/JU
Sample : Q2819-11
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
84SB-W

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

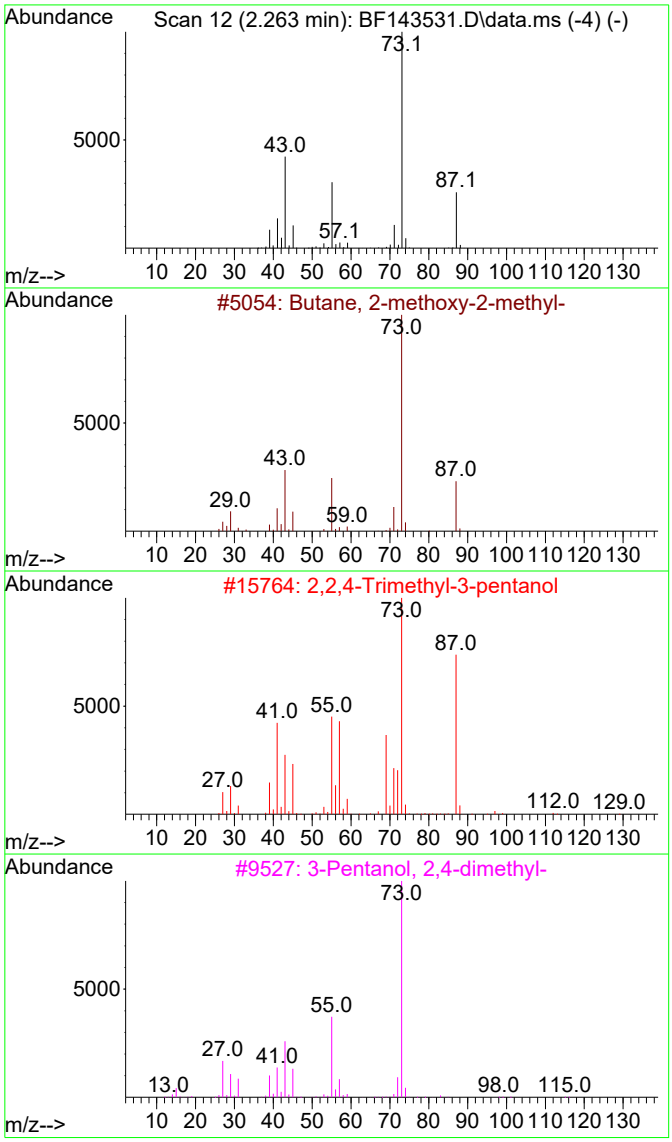
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

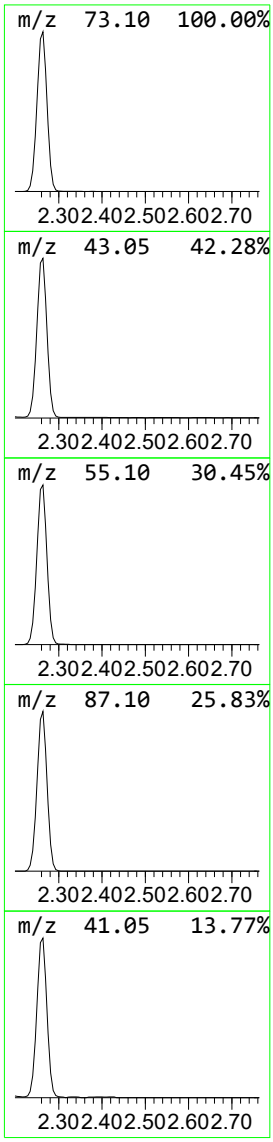
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.263	34.23 ng	1242590	1,4-Dichlorobenzene-d4	6.922

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, 2,4-dimethyl-	116	C7H16O	000600-36-2	37
4	1,3-Dioxolane, 2-methyl-	88	C4H8O2	000497-26-7	23
5	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	12





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
Data File : BF143531.D
Acq On : 21 Aug 2025 15:40
Operator : RC/JU
Sample : Q2819-11
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
84SB-W

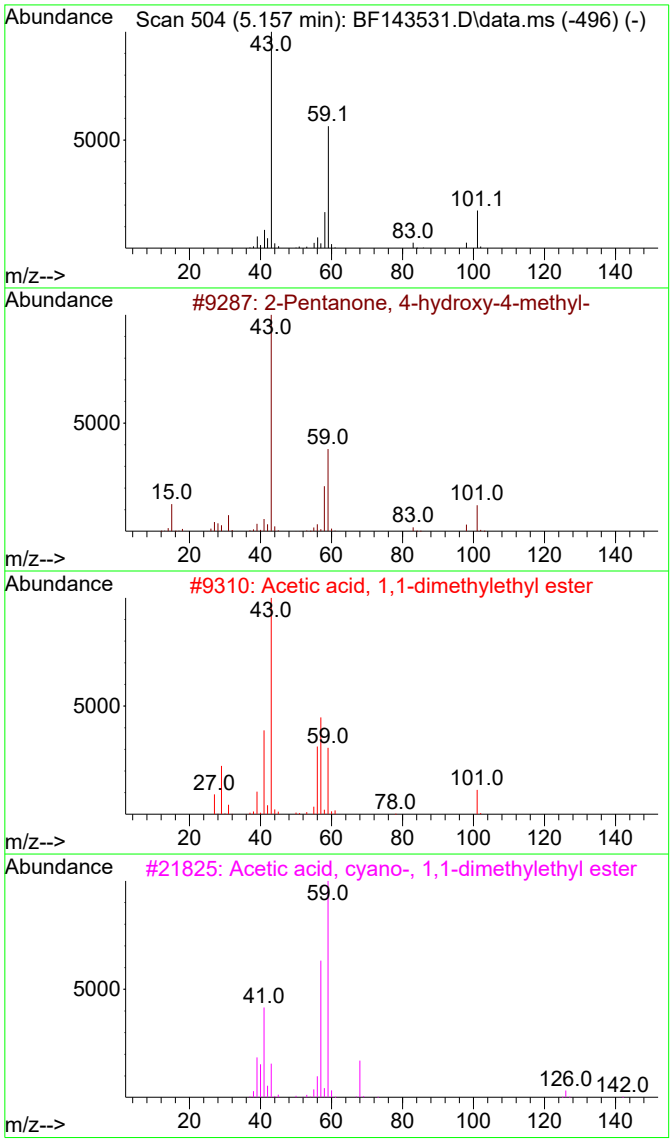
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

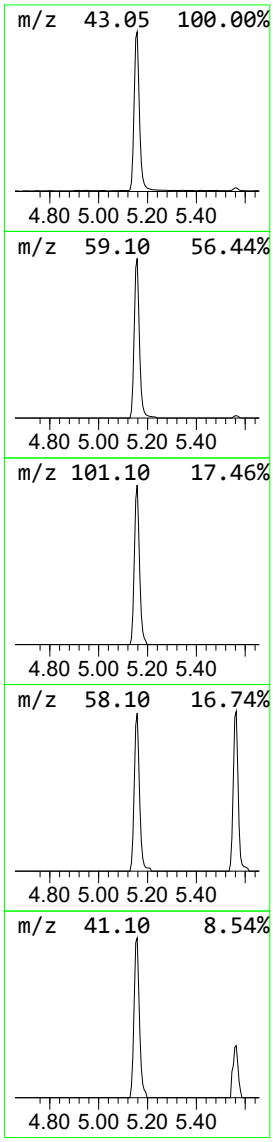
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.157	5.14 ng	186574	1,4-Dichlorobenzene-d4	6.922

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	59
2	Acetic acid, 1,1-dimethylethyl e...	116	C6H12O2	000540-88-5	28
3	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	25
4	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	12
5	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	12





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
Data File : BF143531.D
Acq On : 21 Aug 2025 15:40
Operator : RC/JU
Sample : Q2819-11
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
84SB-W

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

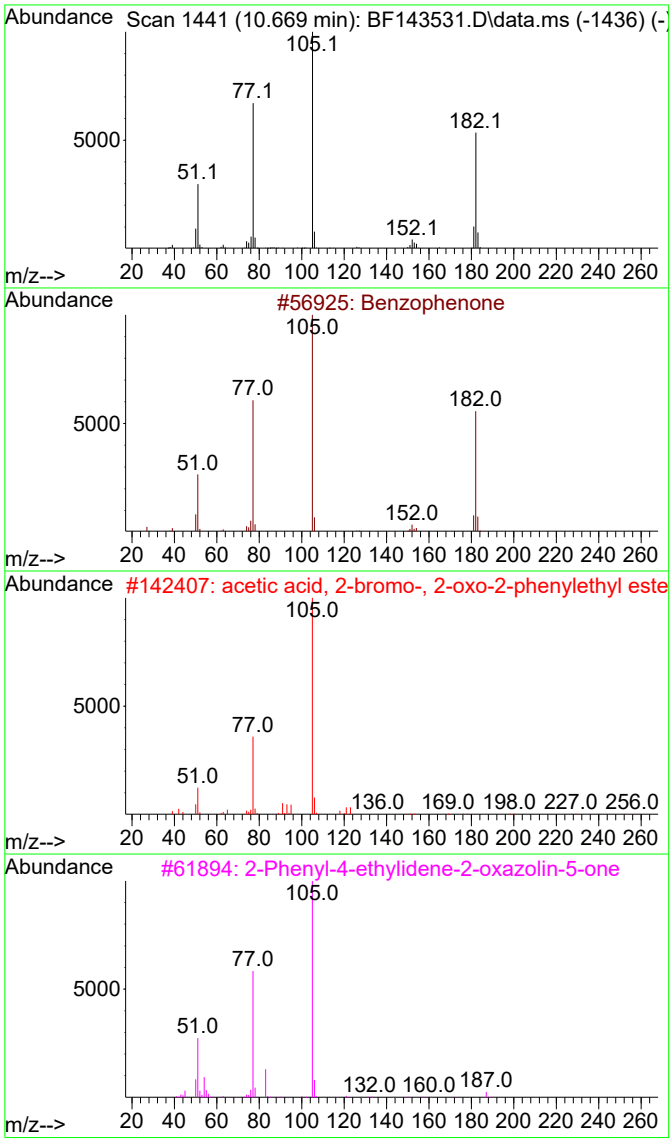
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

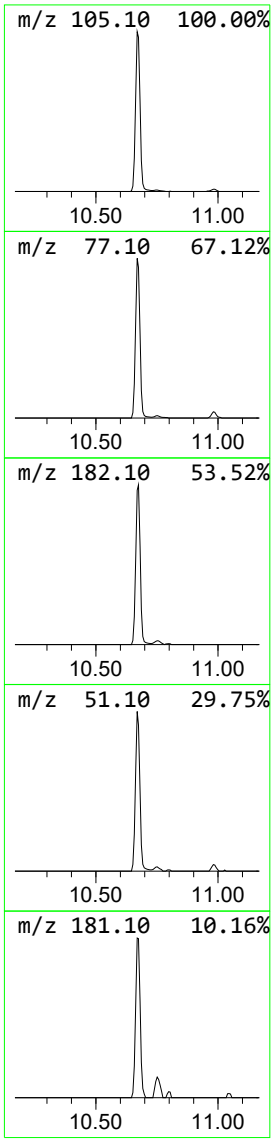
****

Peak Number 3 Benzophenone Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.669	5.94 ng	291906	Acenaphthene-d10	9.963

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	acetic acid, 2-bromo-, 2-oxo-2-p...	256	C10H9BrO3	1000401-50-0	47
3	2-Phenyl-4-ethylidene-2-oxazolin...	187	C11H9NO2	037791-41-6	47
4	1,2-Propanedione, 1-phenyl-	148	C9H8O2	000579-07-7	47
5	2-Benzoyl-4-bromo-5-methyl-1,2-o...	281	C11H8BrNO3	1000444-92-3	47





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
Data File : BF143531.D
Acq On : 21 Aug 2025 15:40
Operator : RC/JU
Sample : Q2819-11
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
84SB-W

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.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...	2.263	34.2	ng	1242590	1	6.922	726072	20.0
2-Pentanone, 4-...	5.157	5.1	ng	186574	1	6.922	726072	20.0
Benzophenone	10.669	5.9	ng	291906	3	9.963	982599	20.0

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Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	17M-S	SDG No.:	Q2819
Lab Sample ID:	Q2819-12	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	93.4
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
BP025536.D	1	08/15/25 08:25	08/21/25 12:12	PB169259

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
100-52-7	Benzaldehyde	290	U	170	290	350	ug/Kg
108-95-2	Phenol	140	U	23.7	140	180	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	140	U	26.0	140	180	ug/Kg
95-57-8	2-Chlorophenol	140	U	26.1	140	180	ug/Kg
95-48-7	2-Methylphenol	140	U	32.0	140	180	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	140	U	40.1	140	180	ug/Kg
98-86-2	Acetophenone	140	U	31.6	140	180	ug/Kg
65794-96-9	3+4-Methylphenols	290	U	44.0	290	350	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	85.6	U	50.7	85.6	85.6	ug/Kg
67-72-1	Hexachloroethane	140	U	18.8	140	180	ug/Kg
98-95-3	Nitrobenzene	140	U	19.6	140	180	ug/Kg
78-59-1	Isophorone	140	U	35.1	140	180	ug/Kg
88-75-5	2-Nitrophenol	140	U	62.3	140	180	ug/Kg
105-67-9	2,4-Dimethylphenol	140	U	69.4	140	180	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	140	U	33.0	140	180	ug/Kg
120-83-2	2,4-Dichlorophenol	140	U	30.3	140	180	ug/Kg
91-20-3	Naphthalene	140	U	24.3	140	180	ug/Kg
106-47-8	4-Chloroaniline	140	U	37.9	140	180	ug/Kg
87-68-3	Hexachlorobutadiene	140	U	27.1	140	180	ug/Kg
105-60-2	Caprolactam	290	U	55.8	290	350	ug/Kg
59-50-7	4-Chloro-3-methylphenol	140	U	30.7	140	180	ug/Kg
91-57-6	2-Methylnaphthalene	140	U	27.4	140	180	ug/Kg
77-47-4	Hexachlorocyclopentadiene	290	U	120	290	350	ug/Kg
88-06-2	2,4,6-Trichlorophenol	140	U	21.2	140	180	ug/Kg
95-95-4	2,4,5-Trichlorophenol	140	U	31.1	140	180	ug/Kg
92-52-4	1,1-Biphenyl	140	U	23.3	140	180	ug/Kg
91-58-7	2-Chloronaphthalene	140	U	24.1	140	180	ug/Kg
88-74-4	2-Nitroaniline	140	U	51.5	140	180	ug/Kg
131-11-3	Dimethylphthalate	140	U	29.0	140	180	ug/Kg

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Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	17M-S	SDG No.:	Q2819
Lab Sample ID:	Q2819-12	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	93.4
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
BP025536.D	1	08/15/25 08:25	08/21/25 12:12	PB169259

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	140	U	30.9	140	180	ug/Kg
606-20-2	2,6-Dinitrotoluene	140	U	36.0	140	180	ug/Kg
99-09-2	3-Nitroaniline	140	U	49.2	140	180	ug/Kg
83-32-9	Acenaphthene	140	U	22.8	140	180	ug/Kg
51-28-5	2,4-Dinitrophenol	290	U	250	290	350	ug/Kg
100-02-7	4-Nitrophenol	290	U	110	290	350	ug/Kg
132-64-9	Dibenzofuran	140	U	24.3	140	180	ug/Kg
121-14-2	2,4-Dinitrotoluene	140	U	53.6	140	180	ug/Kg
84-66-2	Diethylphthalate	140	U	30.3	140	180	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	140	U	28.6	140	180	ug/Kg
86-73-7	Fluorene	140	U	27.1	140	180	ug/Kg
100-01-6	4-Nitroaniline	140	U	68.7	140	180	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	290	U	110	290	350	ug/Kg
86-30-6	n-Nitrosodiphenylamine	140	U	35.2	140	180	ug/Kg
101-55-3	4-Bromophenyl-phenylether	140	U	29.8	140	180	ug/Kg
118-74-1	Hexachlorobenzene	140	U	27.1	140	180	ug/Kg
1912-24-9	Atrazine	140	U	36.4	140	180	ug/Kg
87-86-5	Pentachlorophenol	290	U	54.9	290	350	ug/Kg
85-01-8	Phenanthrene	72.1	J	22.4	140	180	ug/Kg
120-12-7	Anthracene	140	U	35.6	140	180	ug/Kg
86-74-8	Carbazole	140	U	33.4	140	180	ug/Kg
84-74-2	Di-n-butylphthalate	140	U	51.3	140	180	ug/Kg
206-44-0	Fluoranthene	130	J	32.1	140	180	ug/Kg
129-00-0	Pyrene	110	J	38.5	140	180	ug/Kg
85-68-7	Butylbenzylphthalate	140	U	76.4	140	180	ug/Kg
91-94-1	3,3-Dichlorobenzidine	290	U	39.3	290	350	ug/Kg
56-55-3	Benzo(a)anthracene	140	U	24.6	140	180	ug/Kg
218-01-9	Chrysene	140	U	21.3	140	180	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	140	U	63.4	140	180	ug/Kg
117-84-0	Di-n-octyl phthalate	290	U	92.9	290	350	ug/Kg
205-99-2	Benzo(b)fluoranthene	78.5	J	20.3	140	180	ug/Kg

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Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	17M-S	SDG No.:	Q2819
Lab Sample ID:	Q2819-12	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	93.4
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
BP025536.D	1	08/15/25 08:25	08/21/25 12:12	PB169259

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	140	U	24.0	140	180	ug/Kg
50-32-8	Benzo(a)pyrene	140	U	31.6	140	180	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	140	U	31.1	140	180	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	140	U	29.3	140	180	ug/Kg
191-24-2	Benzo(g,h,i)perylene	140	U	27.5	140	180	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	140	U	27.4	140	180	ug/Kg
123-91-1	1,4-Dioxane	140	U	48.4	140	180	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	140	U	29.3	140	180	ug/Kg
SURROGATES							
367-12-4	2-Fluorophenol	81.5		35 - 115		54%	SPK: 150
13127-88-3	Phenol-d6	82.0		34 - 127		55%	SPK: 150
4165-60-0	Nitrobenzene-d5	52.3		37 - 122		52%	SPK: 100
321-60-8	2-Fluorobiphenyl	50.8		44 - 115		51%	SPK: 100
118-79-6	2,4,6-Tribromophenol	82.6		39 - 132		55%	SPK: 150
1718-51-0	Terphenyl-d14	51.8	*	54 - 127		52%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	221000	7.784				
1146-65-2	Naphthalene-d8	884000	10.549				
15067-26-2	Acenaphthene-d10	566000	14.401				
1517-22-2	Phenanthrene-d10	1130000	17.201				
1719-03-5	Chrysene-d12	1110000	21.648				
1520-96-3	Perylene-d12	1230000	25.018				
TENTATIVE IDENTIFIED COMPOUNDS							
000994-05-8	Butane, 2-methoxy-2-methyl-	730	J			3.04	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	190	AB			4.94	ug/Kg
000119-61-9	Benzophenone	300	J			15.8	ug/Kg
000057-10-3	n-Hexadecanoic acid	310	J			18.1	ug/Kg
056641-38-4	1,6-Methano-1H-indene, 2,3,3a,4,5,	870	J			18.5	ug/Kg
001024-57-3	Heptachlor epoxide	73.5	J			19.2	ug/Kg
020020-02-4	Naphthalene, 1,2,3,4-tetrachloro-	77.8	J			19.3	ug/Kg

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Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	17M-S	SDG No.:	Q2819
Lab Sample ID:	Q2819-12	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	93.4
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
BP025536.D	1	08/15/25 08:25	08/21/25 12:12	PB169259

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
000057-11-4	Octadecanoic acid	130	J			19.5	ug/Kg
005103-74-2	trans-Chlordane	280	J			19.6	ug/Kg
1010374-81-1	4-Methoxy-5-bromo-dimethylaminob	74.9	J			20.7	ug/Kg
015594-90-8	1-Heneicosanol	350	J			21.3	ug/Kg
018835-33-1	1-Hexacosene	290	J			22.6	ug/Kg
077899-10-6	(Z)-14-Tricosenyl formate	140	J			23.7	ug/Kg
000557-61-9	Octacosanol	300	J			24.2	ug/Kg

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025536.D
Acq On : 21 Aug 2025 12:12
Operator : CG/JU
Sample : Q2819-12
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
17M-S

Quant Time: Aug 21 13:06:05 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration

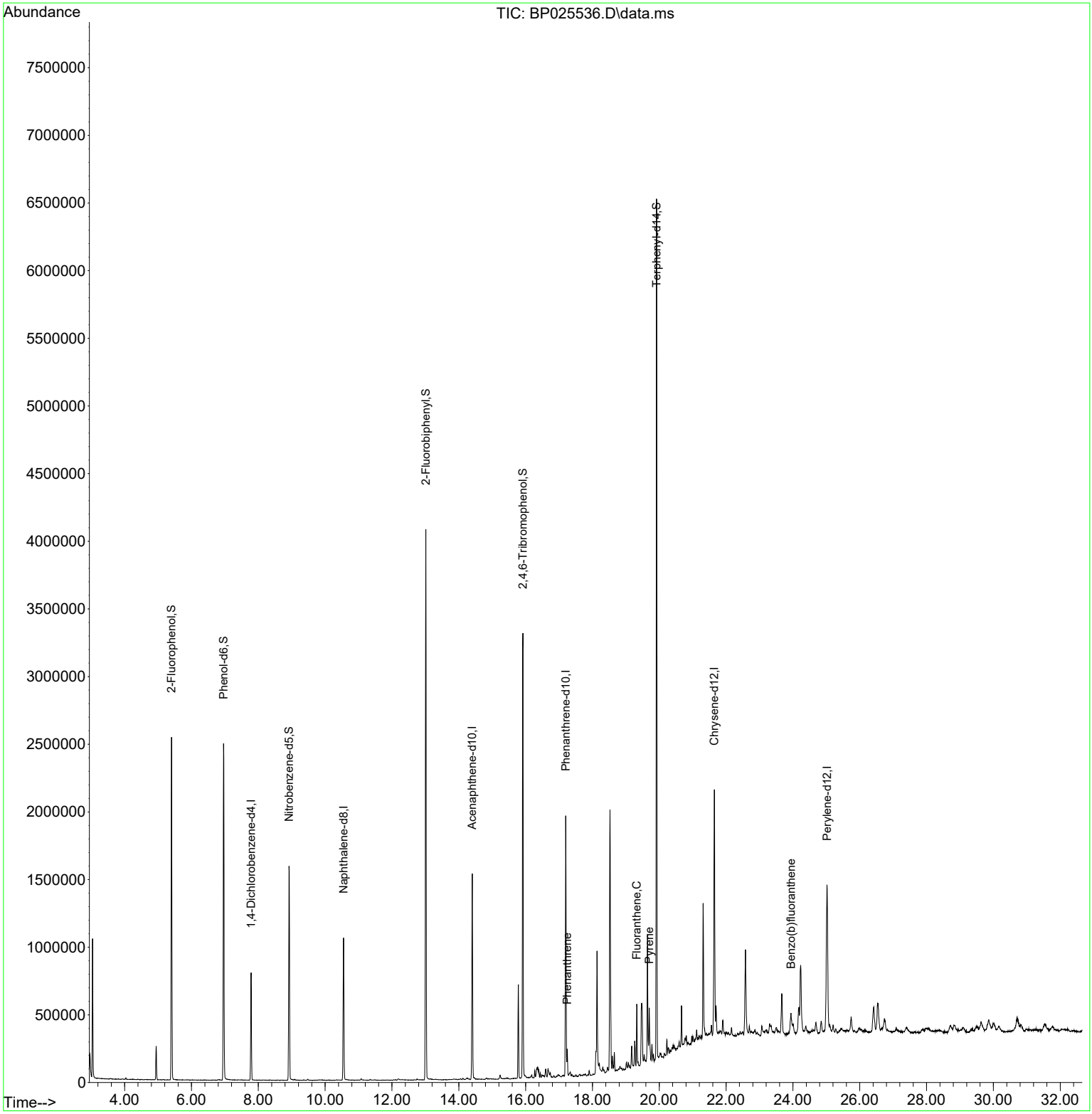
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.784	152	220677	20.000	ng		-0.01
21) Naphthalene-d8	10.549	136	884460	20.000	ng		-0.01
39) Acenaphthene-d10	14.401	164	566498	20.000	ng		0.00
64) Phenanthrene-d10	17.201	188	1127810	20.000	ng		0.00
76) Chrysene-d12	21.648	240	1111827	20.000	ng		0.00
86) Perylene-d12	25.018	264	1225646	20.000	ng		-0.01
System Monitoring Compounds							
5) 2-Fluorophenol	5.402	112	1083021	81.502	ng		0.00
7) Phenol-d6	6.960	99	1396200	81.953	ng		0.00
23) Nitrobenzene-d5	8.919	82	914132	52.283	ng		-0.02
42) 2,4,6-Tribromophenol	15.919	330	629781	82.593	ng		0.00
45) 2-Fluorobiphenyl	13.013	172	2107259	50.838	ng		0.00
79) Terphenyl-d14	19.919	244	3146789	51.782	ng		0.00
Target Compounds							Qvalue
71) Phenanthrene	17.242	178	125298	2.022	ng		98
75) Fluoranthene	19.325	202	265995	3.599	ng		98
78) Pyrene	19.701	202	228825	3.166	ng		99
88) Benzo(b)fluoranthene	23.942	252	159045	2.201	ng	#	95

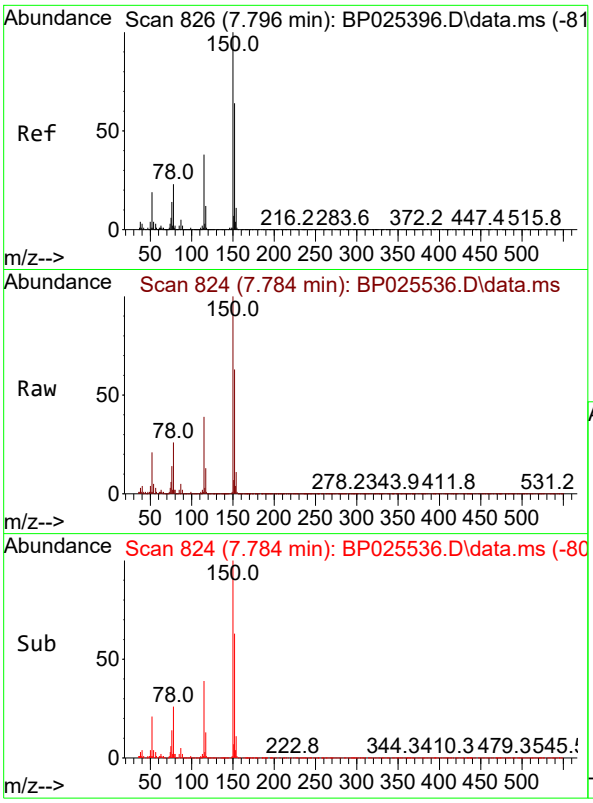
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025536.D
Acq On : 21 Aug 2025 12:12
Operator : CG/JU
Sample : Q2819-12
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
17M-S

Quant Time: Aug 21 13:06:05 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration



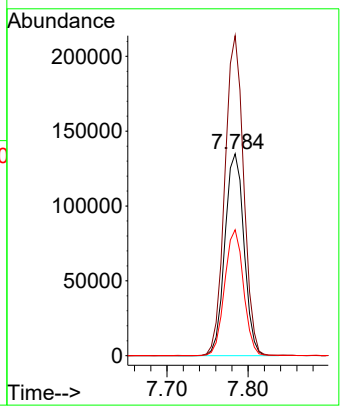


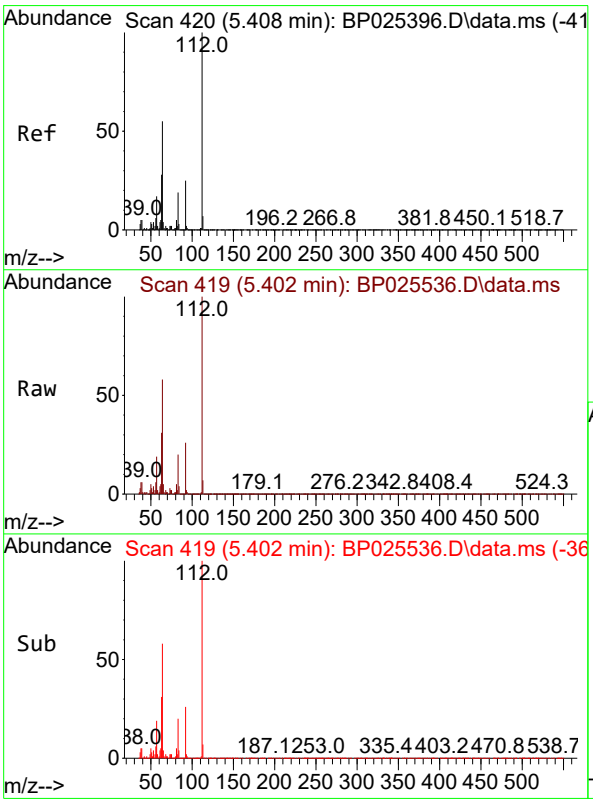
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.784 min Scan# 8
Delta R.T. -0.012 min
Lab File: BP025536.D
Acq: 21 Aug 2025 12:12

Instrument :
BNA_P
ClientSampleId :
17M-S

Tgt Ion:152 Resp: 220677

Ion	Ratio	Lower	Upper
152	100		
150	158.4	125.9	188.9
115	62.4	48.5	72.7

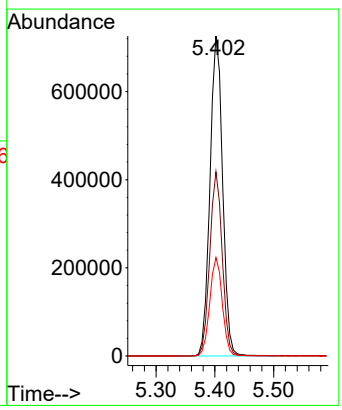


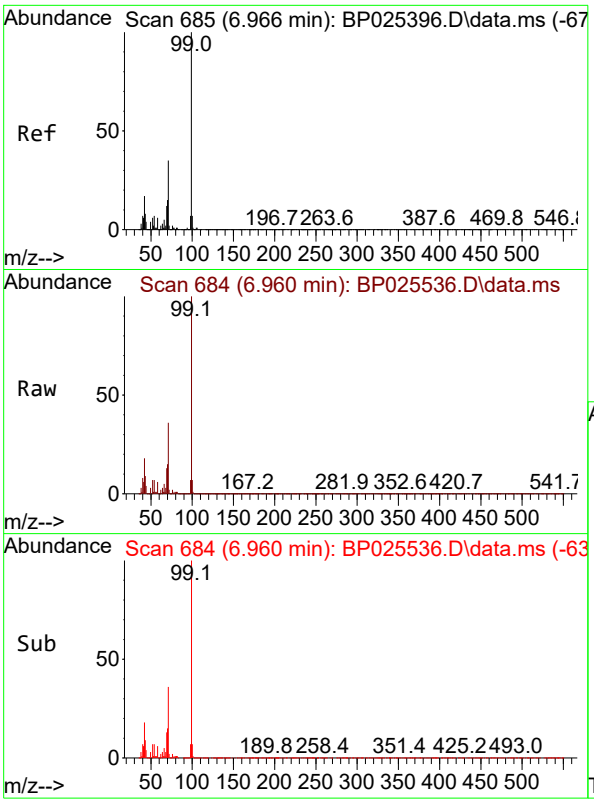


#5
2-Fluorophenol
Concen: 81.502 ng
RT: 5.402 min Scan# 419
Delta R.T. -0.006 min
Lab File: BP025536.D
Acq: 21 Aug 2025 12:12

Tgt Ion:112 Resp: 1083021

Ion	Ratio	Lower	Upper
112	100		
64	57.5	43.8	65.8
63	30.8	22.7	34.1



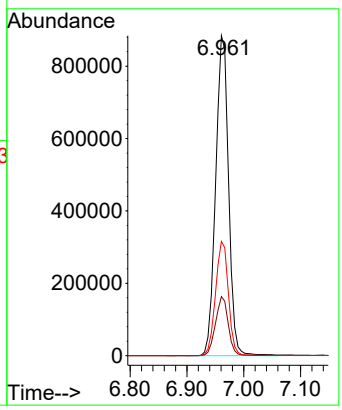


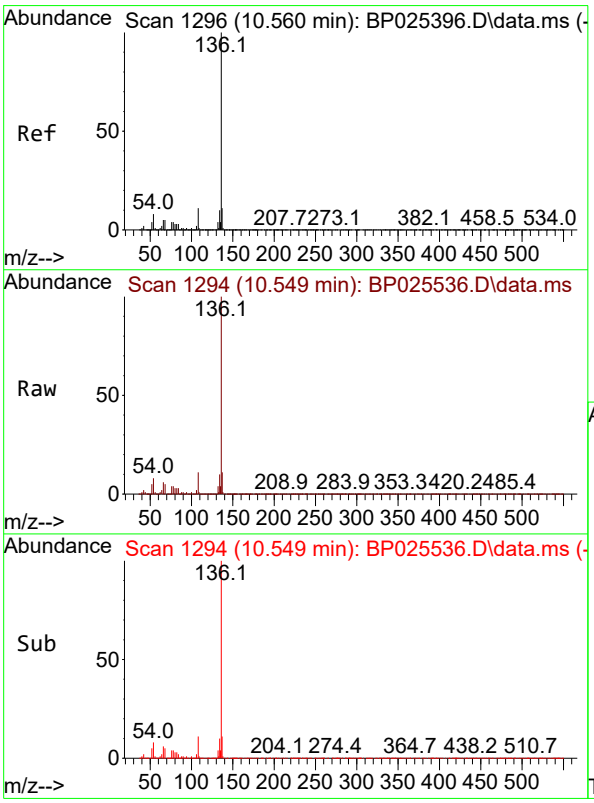
#7
Phenol-d6
Concen: 81.953 ng
RT: 6.960 min Scan# 6
Delta R.T. -0.006 min
Lab File: BP025536.D
Acq: 21 Aug 2025 12:12

Instrument :
BNA_P
ClientSampleId :
17M-S

Tgt Ion: 99 Resp: 1396200

Ion	Ratio	Lower	Upper
99	100		
42	18.4	13.7	20.5
71	35.7	28.2	42.4

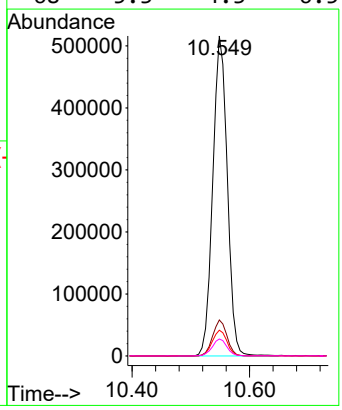


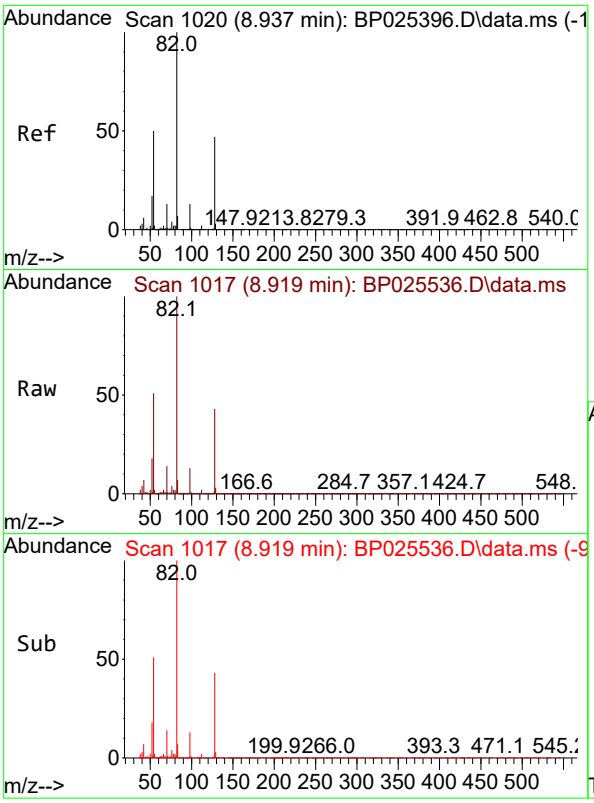


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.549 min Scan# 1294
Delta R.T. -0.012 min
Lab File: BP025536.D
Acq: 21 Aug 2025 12:12

Tgt Ion:136 Resp: 884460

Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.2	13.8
54	8.1	6.0	9.0
68	5.3	4.3	6.5



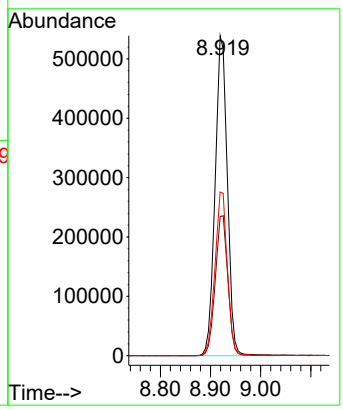


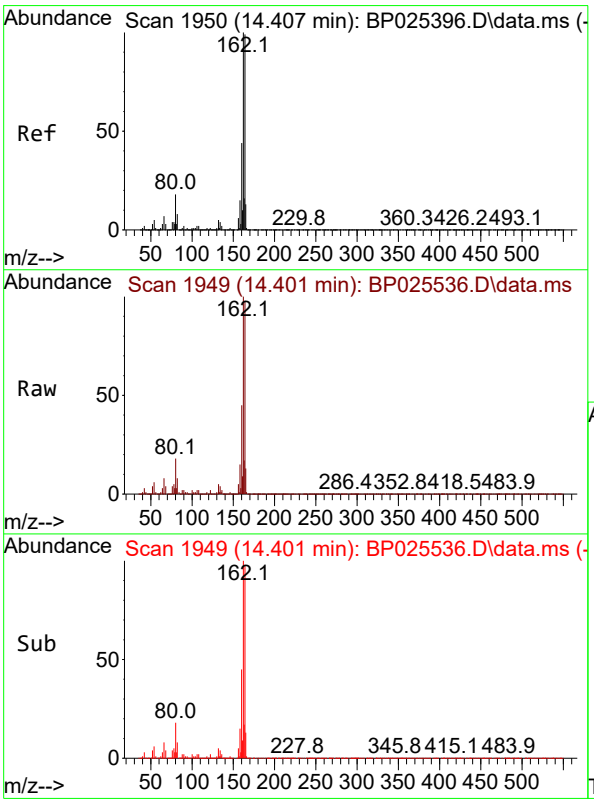
#23
Nitrobenzene-d5
Concen: 52.283 ng
RT: 8.919 min Scan# 1
Delta R.T. -0.018 min
Lab File: BP025536.D
Acq: 21 Aug 2025 12:12

Instrument :
BNA_P
ClientSampleId :
17M-S

Tgt Ion: 82 Resp: 914132

Ion	Ratio	Lower	Upper
82	100		
128	43.5	37.7	56.5
54	51.1	39.8	59.6

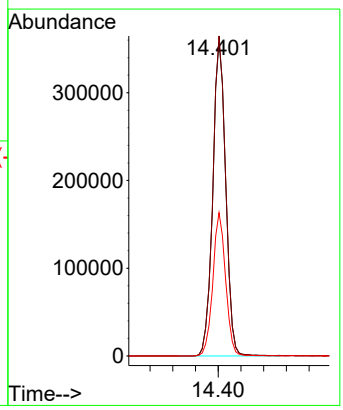


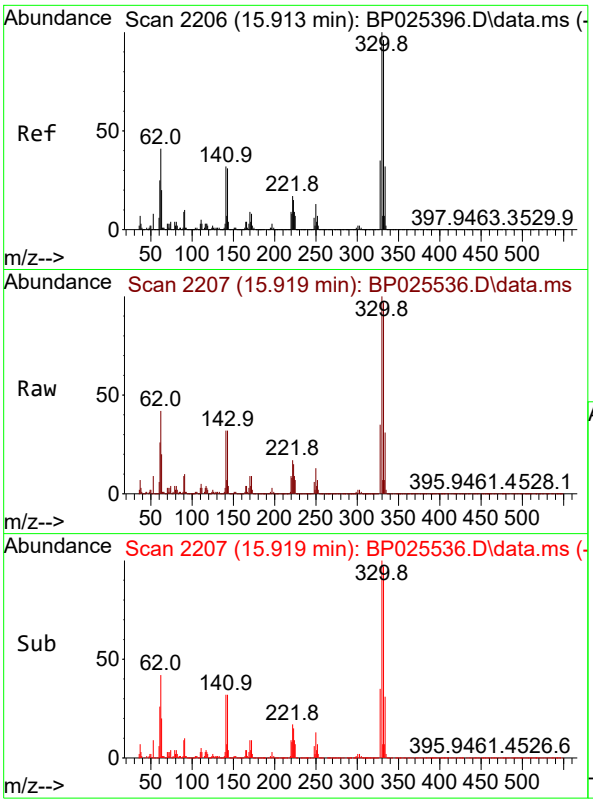


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.401 min Scan# 1949
Delta R.T. -0.006 min
Lab File: BP025536.D
Acq: 21 Aug 2025 12:12

Tgt Ion:164 Resp: 566498

Ion	Ratio	Lower	Upper
164	100		
162	101.9	81.0	121.6
160	45.6	35.4	53.2



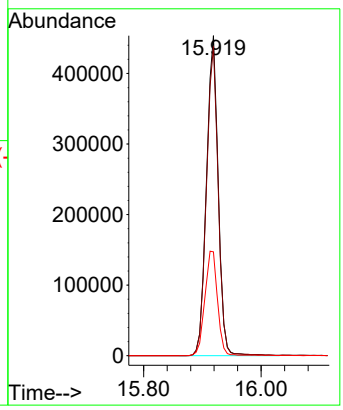


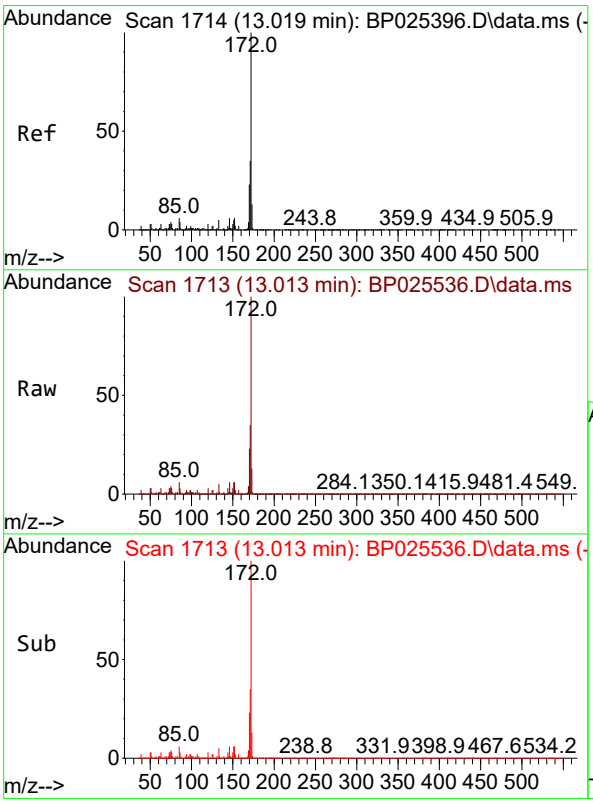
#42
2,4,6-Tribromophenol
Concen: 82.593 ng
RT: 15.919 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025536.D
Acq: 21 Aug 2025 12:12

Instrument :
BNA_P
ClientSampleId :
17M-S

Tgt Ion:330 Resp: 629781

Ion	Ratio	Lower	Upper
330	100		
332	97.0	77.3	115.9
141	35.2	26.6	39.8

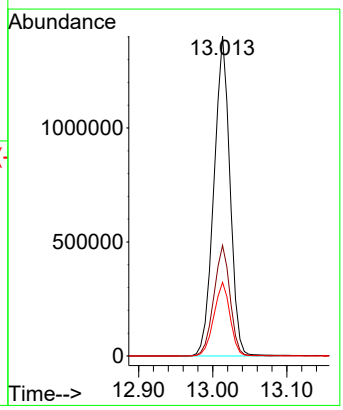


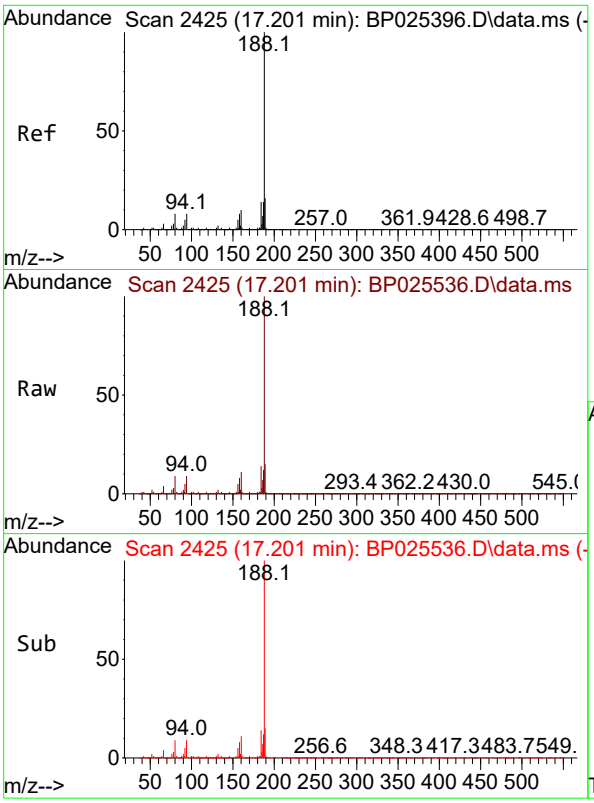


#45
2-Fluorobiphenyl
Concen: 50.838 ng
RT: 13.013 min Scan# 1713
Delta R.T. -0.006 min
Lab File: BP025536.D
Acq: 21 Aug 2025 12:12

Tgt Ion:172 Resp: 2107259

Ion	Ratio	Lower	Upper
172	100		
171	34.5	28.1	42.1
170	23.0	18.6	28.0



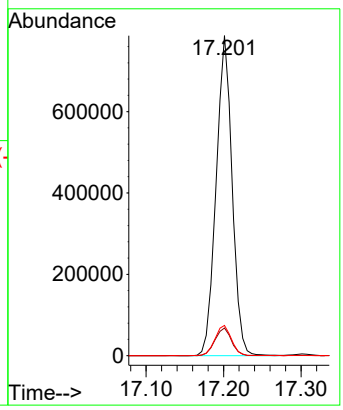


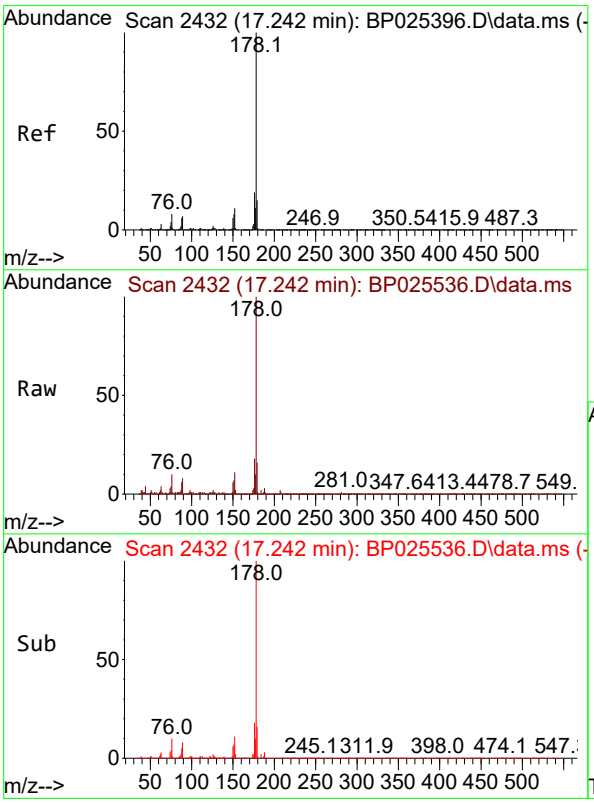
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.201 min Scan# 24
Delta R.T. 0.000 min
Lab File: BP025536.D
Acq: 21 Aug 2025 12:12

Instrument :
BNA_P
ClientSampleId :
17M-S

Tgt Ion:188 Resp: 1127810

Ion	Ratio	Lower	Upper
188	100		
94	8.6	6.6	10.0
80	9.4	6.7	10.1

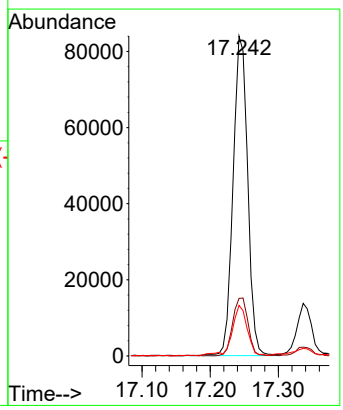


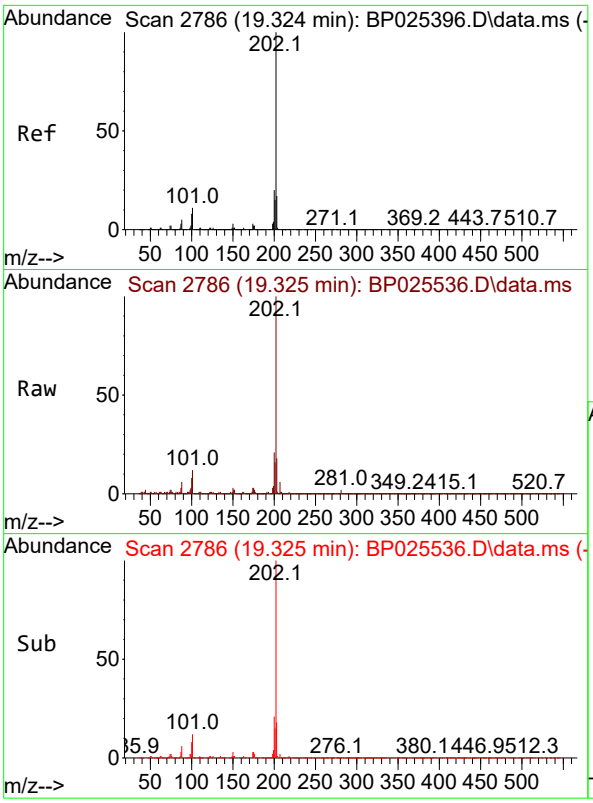


#71
Phenanthrene
Concen: 2.022 ng
RT: 17.242 min Scan# 2432
Delta R.T. 0.000 min
Lab File: BP025536.D
Acq: 21 Aug 2025 12:12

Tgt Ion:178 Resp: 125298

Ion	Ratio	Lower	Upper
178	100		
176	18.0	15.5	23.3
179	15.8	12.2	18.4



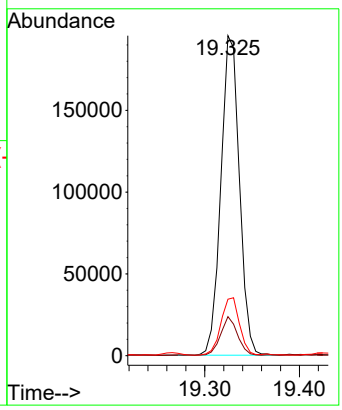


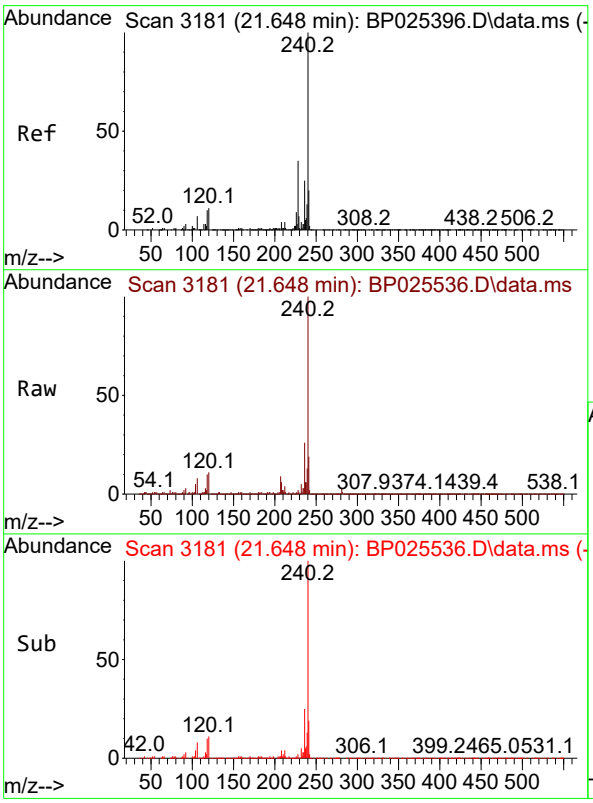
#75
Fluoranthene
Concen: 3.599 ng
RT: 19.325 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP025536.D
Acq: 21 Aug 2025 12:12

Instrument :
BNA_P
ClientSampleId :
17M-S

Tgt Ion:202 Resp: 265995

Ion	Ratio	Lower	Upper
202	100		
101	12.2	0.0	31.1
203	17.7	0.0	37.3

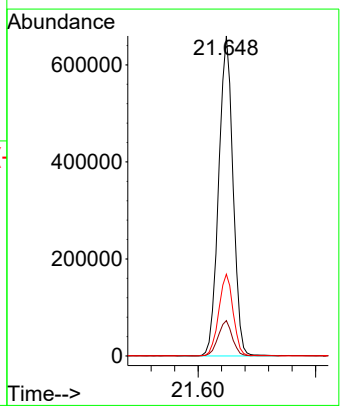


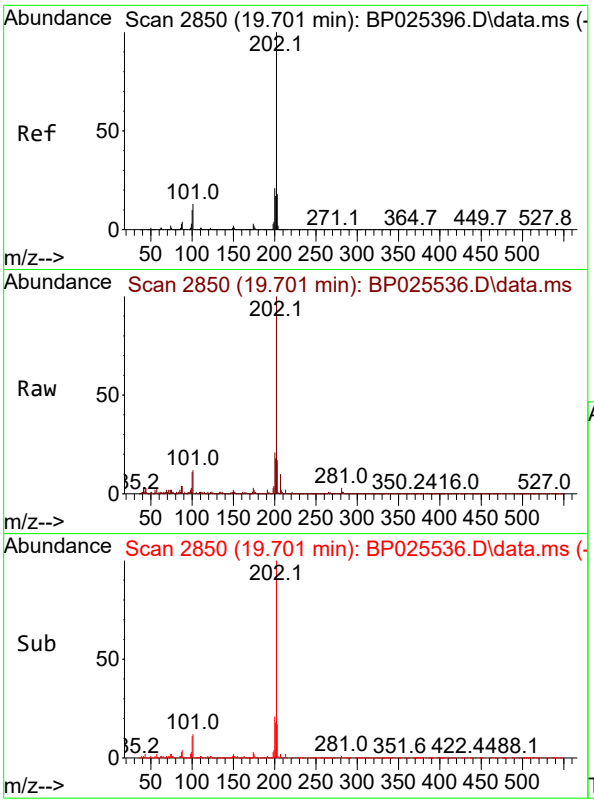


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.648 min Scan# 3181
Delta R.T. 0.000 min
Lab File: BP025536.D
Acq: 21 Aug 2025 12:12

Tgt Ion:240 Resp: 1111827

Ion	Ratio	Lower	Upper
240	100		
120	11.1	8.9	13.3
236	25.5	19.8	29.8



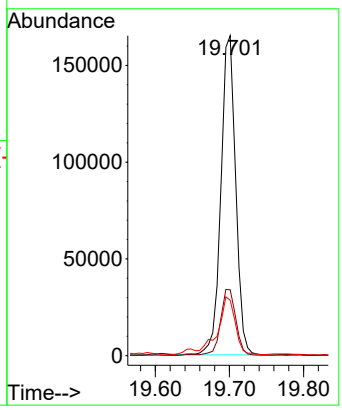


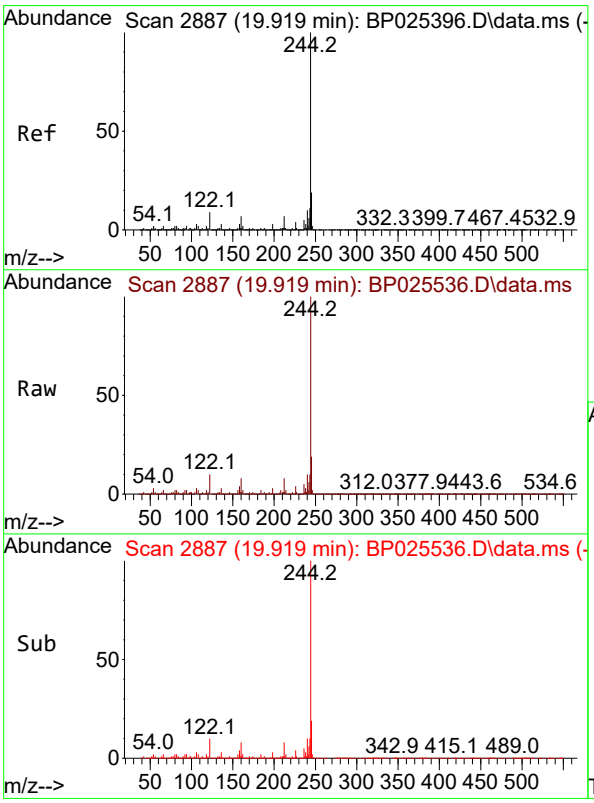
#78
Pyrene
Concen: 3.166 ng
RT: 19.701 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP025536.D
Acq: 21 Aug 2025 12:12

Instrument :
BNA_P
ClientSampleId :
17M-S

Tgt Ion:202 Resp: 228825

Ion	Ratio	Lower	Upper
202	100		
200	20.6	16.9	25.3
203	17.3	14.2	21.2

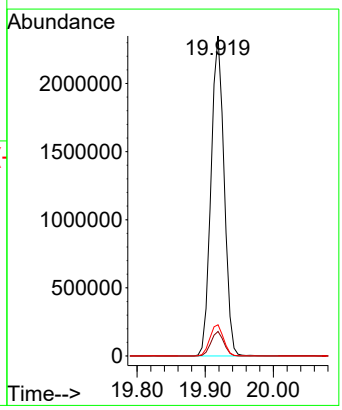


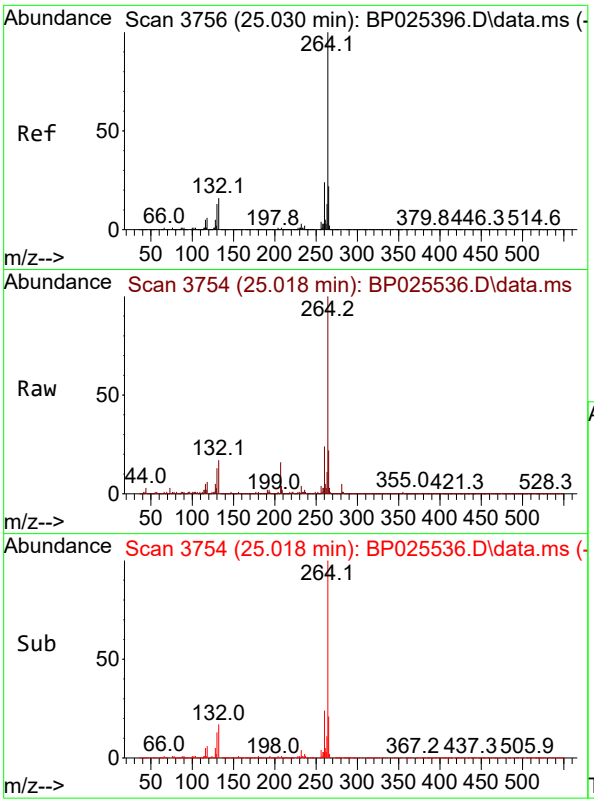


#79
Terphenyl-d14
Concen: 51.782 ng
RT: 19.919 min Scan# 2887
Delta R.T. 0.000 min
Lab File: BP025536.D
Acq: 21 Aug 2025 12:12

Tgt Ion:244 Resp: 3146789

Ion	Ratio	Lower	Upper
244	100		
212	7.6	5.8	8.6
122	9.8	7.4	11.2



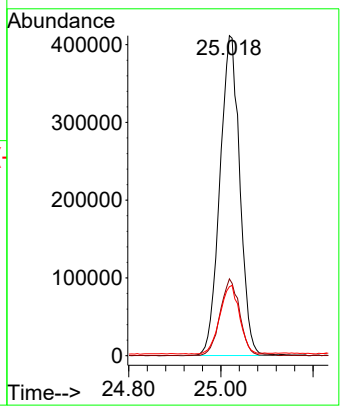


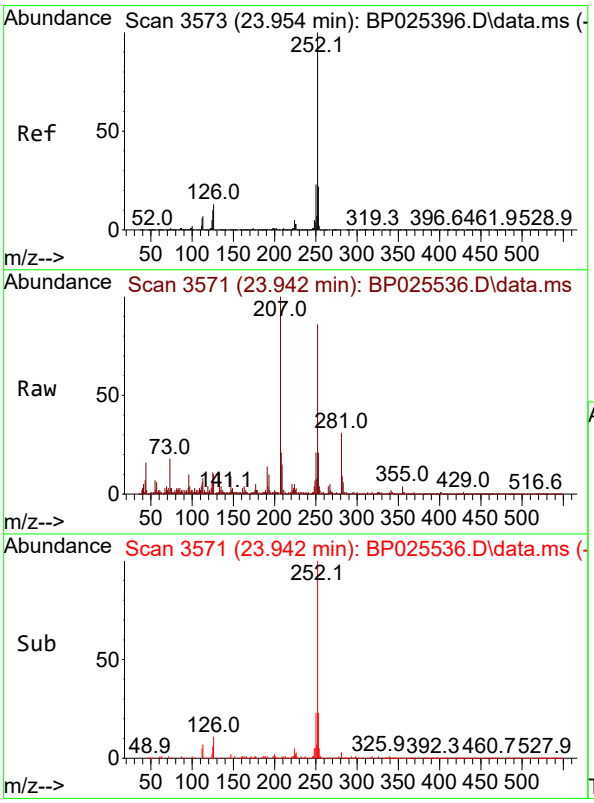
#86
Perylene-d12
Concen: 20.000 ng
RT: 25.018 min Scan# 3
Delta R.T. -0.012 min
Lab File: BP025536.D
Acq: 21 Aug 2025 12:12

Instrument :
BNA_P
ClientSampleId :
17M-S

Tgt Ion:264 Resp: 1225646

Ion	Ratio	Lower	Upper
264	100		
260	24.0	19.3	28.9
265	21.5	17.4	26.0

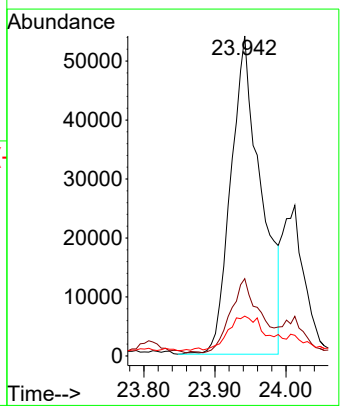




#88
Benzo(b)fluoranthene
Concen: 2.201 ng
RT: 23.942 min Scan# 3571
Delta R.T. -0.012 min
Lab File: BP025536.D
Acq: 21 Aug 2025 12:12

Tgt Ion:252 Resp: 159045

Ion	Ratio	Lower	Upper
252	100		
253	24.2	17.7	26.5
125	12.5	7.9	11.9#



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025536.D
Acq On : 21 Aug 2025 12:12
Operator : CG/JU
Sample : Q2819-12
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
17M-S

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

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

Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BP025536.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.037	12	17	30	rVB	1029946	1322365	15.37%	2.093%
2	4.943	335	341	348	rVB	248472	347210	4.04%	0.550%
3	5.402	412	419	432	rBV	2532189	3747610	43.56%	5.932%
4	6.961	676	684	698	rBV	2487590	3973034	46.18%	6.289%
5	7.784	815	824	832	rBV	794349	1293405	15.03%	2.047%
6	8.919	1009	1017	1029	rBV	1582082	2712377	31.53%	4.294%
7	10.549	1285	1294	1307	rBV	1052335	1818367	21.14%	2.878%
8	13.013	1704	1713	1724	rBV	4070516	6150966	71.50%	9.737%
9	14.401	1938	1949	1957	rBV	1522507	2414246	28.06%	3.822%
10	15.784	2177	2184	2191	rBV	693812	998003	11.60%	1.580%
11	15.919	2196	2207	2216	rBV	3290064	4871857	56.63%	7.712%
12	16.331	2271	2277	2279	rBV3	61259	100497	1.17%	0.159%
13	16.601	2317	2323	2330	rBV5	58522	107299	1.25%	0.170%
14	16.672	2330	2335	2343	rBV2	59639	154551	1.80%	0.245%
15	17.201	2418	2425	2430	rBV	1926538	2832100	32.92%	4.483%
16	17.242	2430	2432	2438	rVB	196091	258782	3.01%	0.410%
17	18.101	2573	2578	2579	rBV2	162272	187587	2.18%	0.297%
18	18.136	2580	2584	2593	rVB	866144	1242907	14.45%	1.967%
19	18.525	2643	2650	2658	rBV3	1926437	3454903	40.16%	5.469%
20	18.595	2658	2662	2666	rVV4	108476	164609	1.91%	0.261%
21	18.654	2668	2672	2677	rVB2	138190	175439	2.04%	0.278%
22	19.019	2729	2734	2738	rBV6	51294	87754	1.02%	0.139%
23	19.178	2755	2761	2767	rBV6	163642	291668	3.39%	0.462%
24	19.266	2771	2776	2782	rVB3	182509	308053	3.58%	0.488%
25	19.325	2782	2786	2791	rBV	454946	626882	7.29%	0.992%
26	19.466	2804	2810	2811	rBV	449585	589963	6.86%	0.934%
27	19.648	2835	2841	2846	rBV2	933501	1286808	14.96%	2.037%
28	19.701	2846	2850	2859	rVV2	390169	682419	7.93%	1.080%
29	19.777	2860	2863	2868	rVV4	123466	176551	2.05%	0.279%
30	19.919	2881	2887	2894	rBV	6349769	8602709	100.00%	13.618%
31	20.225	2936	2939	2944	rBV	102331	134715	1.57%	0.213%
32	20.666	3010	3014	3019	rVB3	290494	348289	4.05%	0.551%
33	21.313	3119	3124	3137	rBV2	990793	1603931	18.64%	2.539%
34	21.648	3173	3181	3187	rBV	1804863	3310497	38.48%	5.240%
35	21.701	3187	3190	3197	rVB	200154	302397	3.52%	0.479%
36	22.577	3333	3339	3354	rVB	616932	1365912	15.88%	2.162%

Sample Results: **BP025536.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025536.D
Acq On : 21 Aug 2025 12:12
Operator : CG/JU
Sample : Q2819-12
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
17M-S

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

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

Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

37	23.666	3520	3524	3536	rVB2	296056	620764	7.22%	0.983%
38	24.230	3615	3620	3633	rVB2	486071	1309119	15.22%	2.072%
39	25.018	3745	3754	3765	rBV	1056648	3077571	35.77%	4.872%
40	26.530	4008	4011	4012	rBV2	112311	118187	1.37%	0.187%

Sum of corrected areas: 63172303

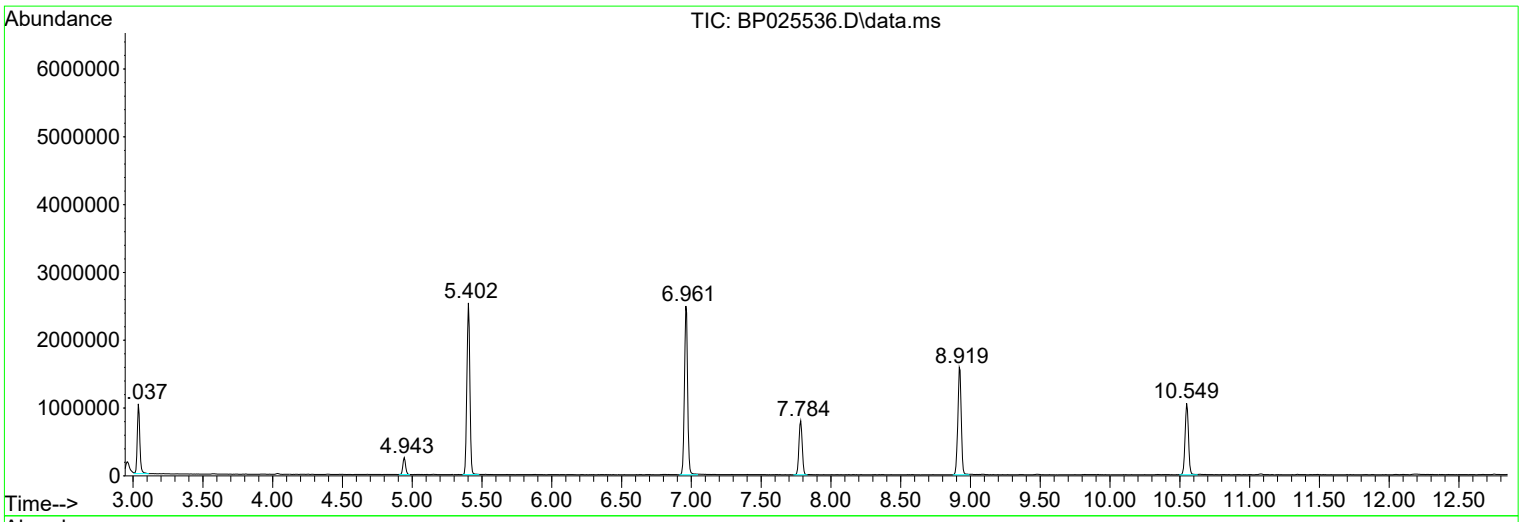
Sample Results: **BP025536.D**

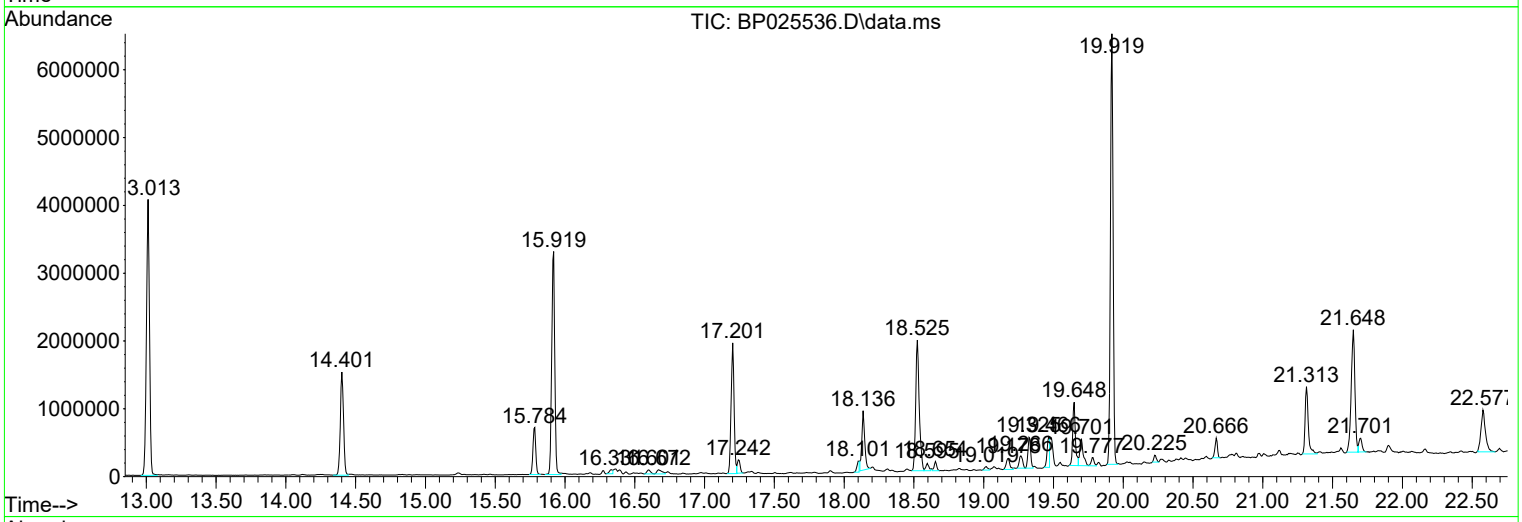
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025536.D
Acq On : 21 Aug 2025 12:12
Operator : CG/JU
Sample : Q2819-12
Misc :
ALS Vial : 26 Sample Multiplier: 1

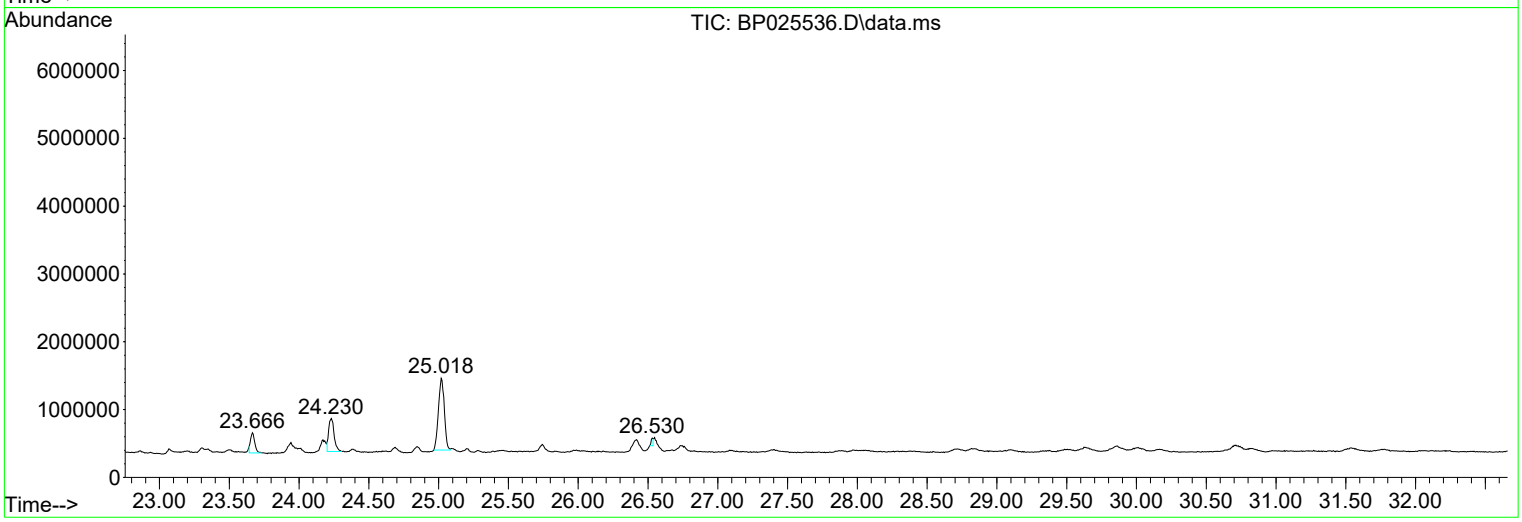
Instrument :
BNA_P
ClientSampleId :
17M-S

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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







Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025536.D
Acq On : 21 Aug 2025 12:12
Operator : CG/JU
Sample : Q2819-12
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
17M-S

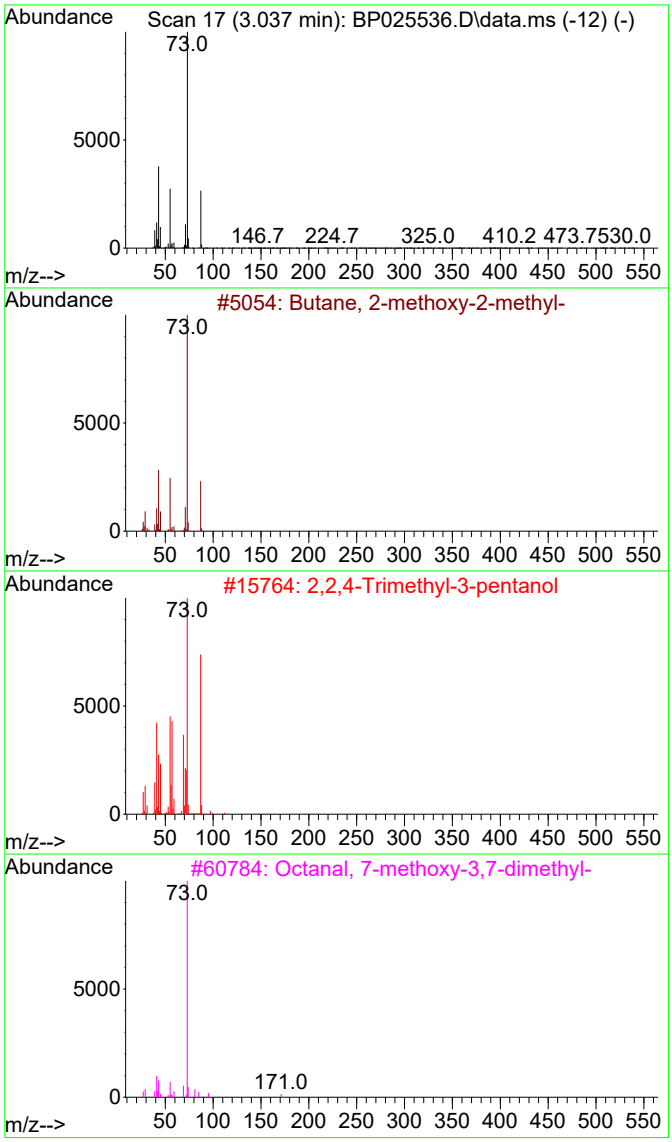
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

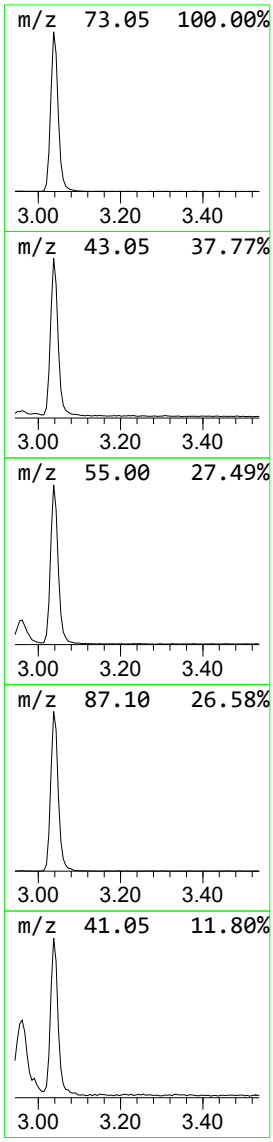
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.037	20.45 ng	1322370	1,4-Dichlorobenzene-d4	7.784

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	Octanal, 7-methoxy-3,7-dimethyl-	186	C11H22O2	003613-30-7	23
4	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	17
5	Acetamide, N-ethyl-	87	C4H9NO	000625-50-3	9





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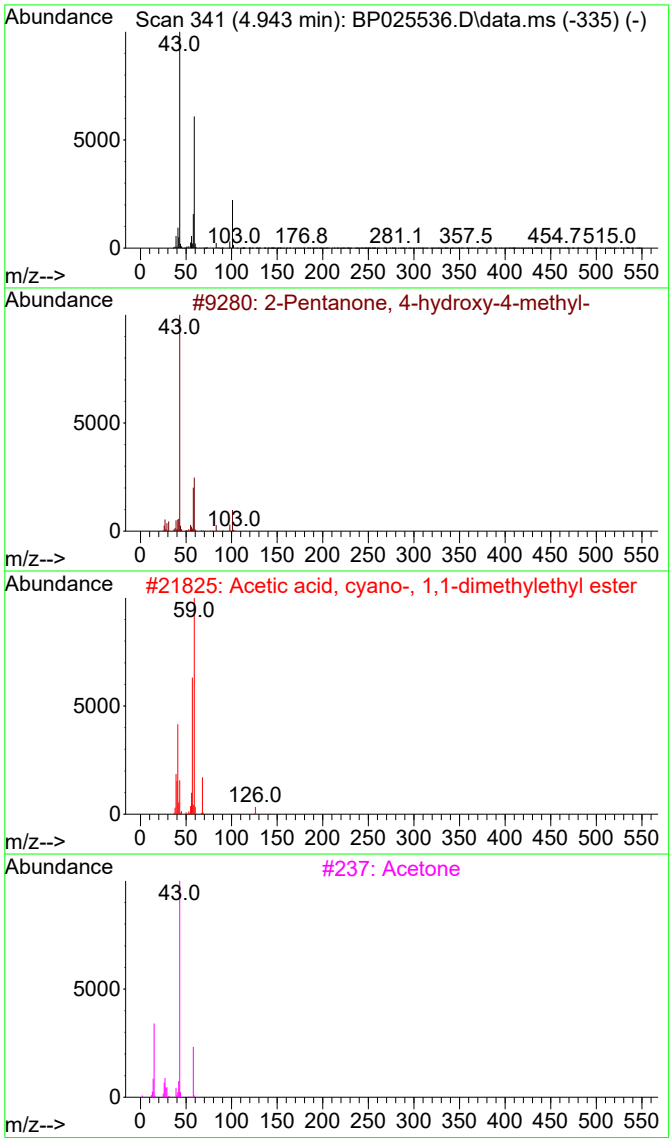
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

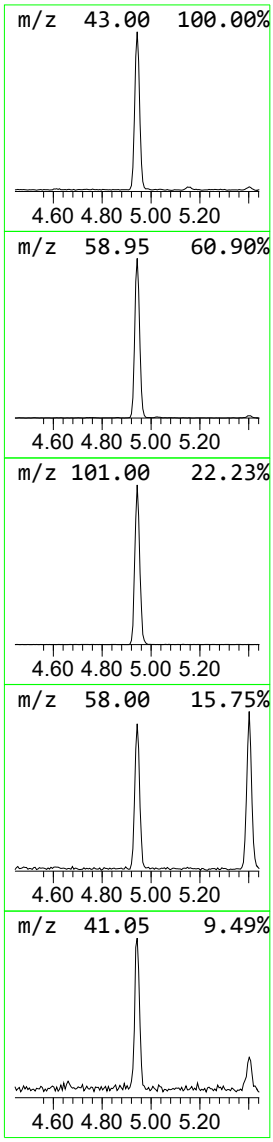
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.943	5.37 ng	347210	1,4-Dichlorobenzene-d4	7.784

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	72
2	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	25
3	Acetone	58	C3H6O	000067-64-1	10
4	(+-)-4-Amino-4,5-dihydro-2(3H)-f...	101	C4H7NO2	016504-58-8	9
5	Morpholine, 4-methyl-	101	C5H11NO	000109-02-4	9





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

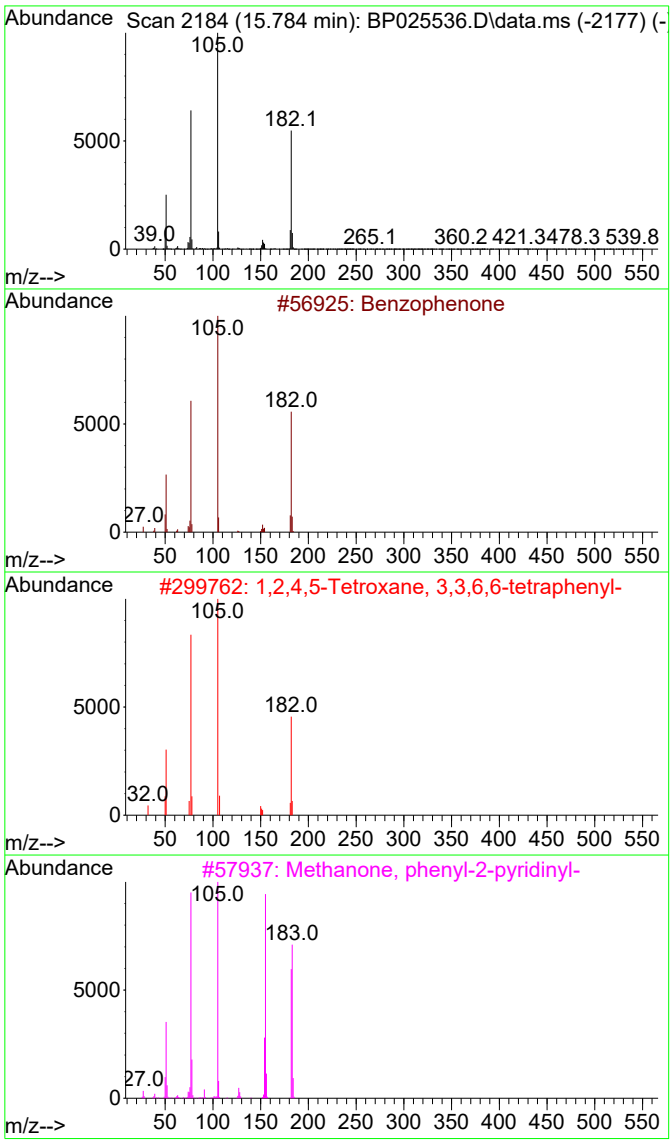
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

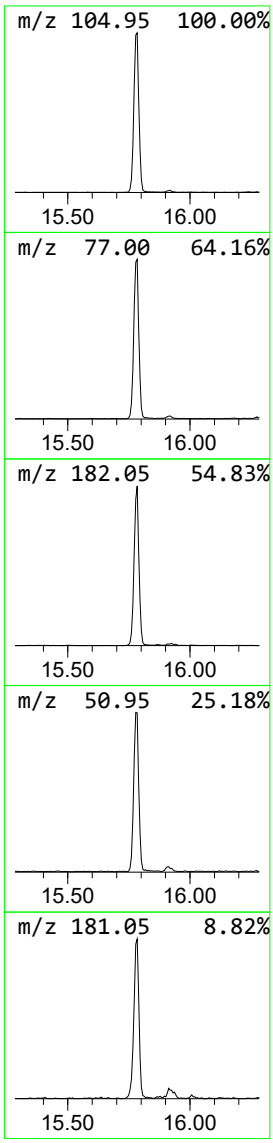
****

Peak Number 3 Benzophenone Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.784	8.27 ng	998003	Acenaphthene-d10	14.401

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	64
3	Methanone, phenyl-2-pyridinyl-	183	C12H9NO	000091-02-1	56
4	Azobenzene	182	C12H10N2	000103-33-3	45
5	Benzenamine, N-(3-pyridinylmethy...	182	C12H10N2	029722-97-2	45





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TIC Library   : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P
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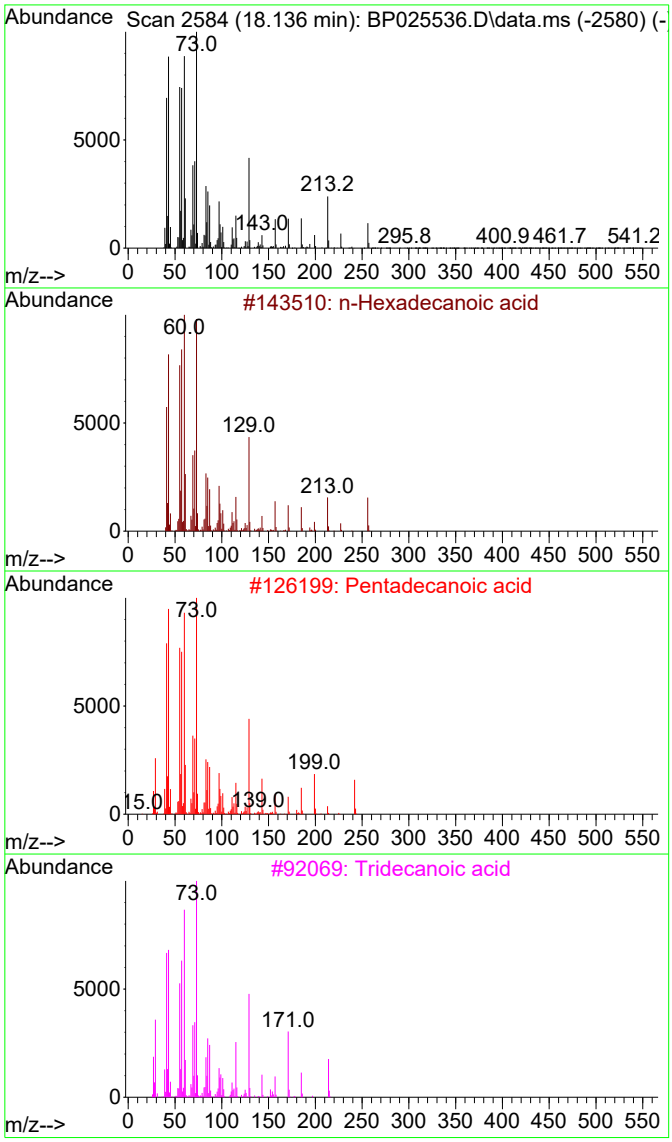
Instrument :
BNA_P
ClientSampleId :
17M-S

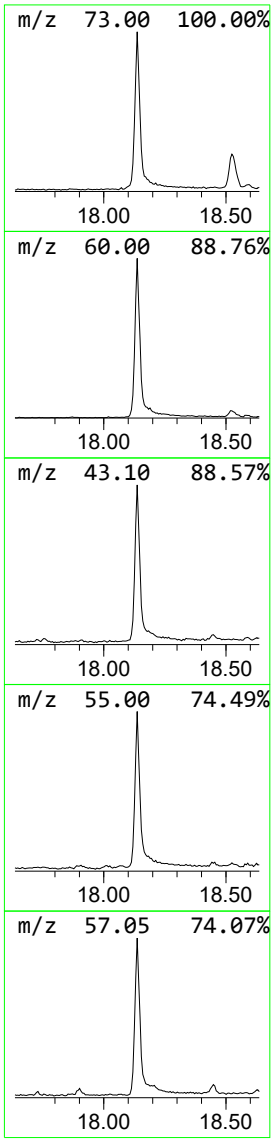
****

Peak Number 4 n-Hexadecanoic acid Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.136	8.78 ng	1242910	Phenanthrene-d10	17.201

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2	Pentadecanoic acid	242	C15H30O2	001002-84-2	93
3	Tridecanoic acid	214	C13H26O2	000638-53-9	92
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	80
5	n-Decanoic acid	172	C10H20O2	000334-48-5	76





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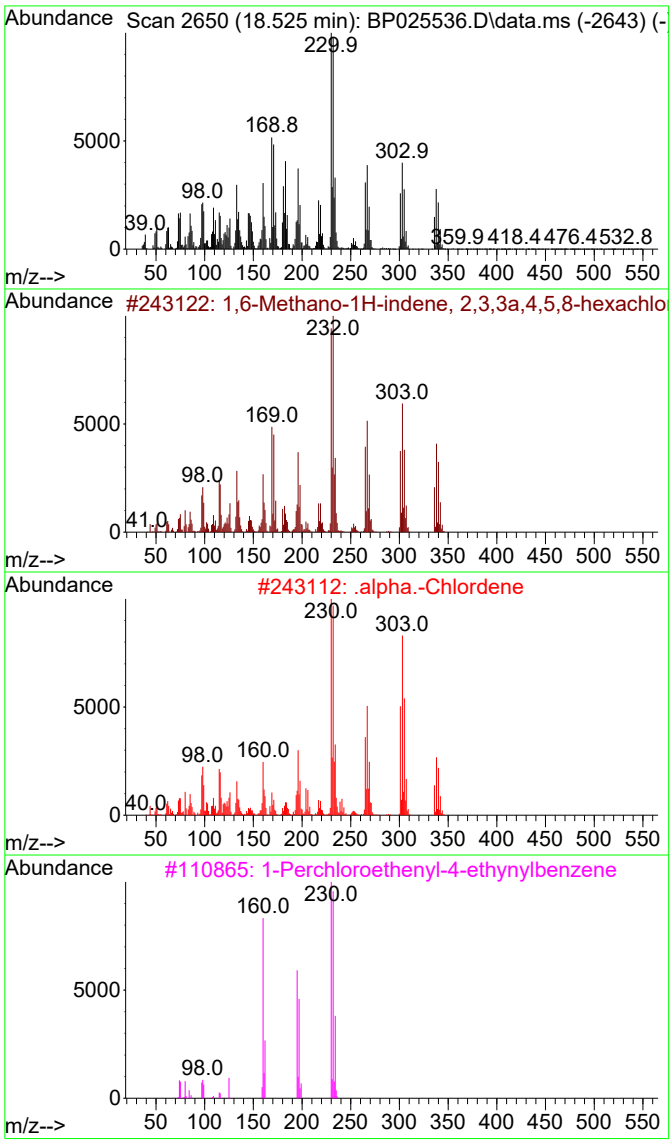
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

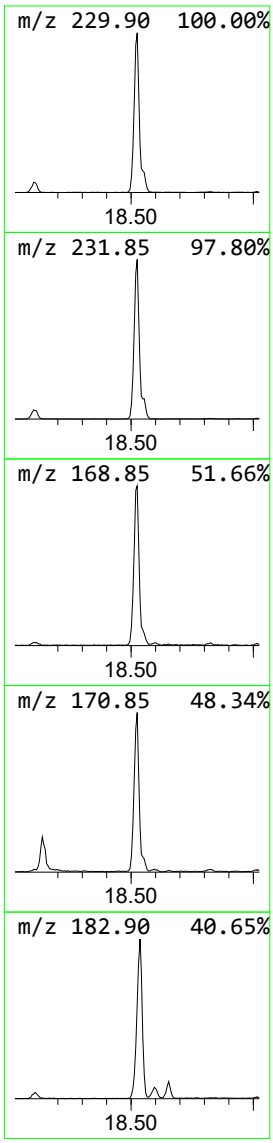
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 5 1,6-Methano-1H-indene, 2,3,... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.525	24.40 ng	3454900	Phenanthrene-d10	17.201

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,6-Methano-1H-indene, 2,3,3a,4,...	336	C10H6Cl6	056641-38-4	98
2	.alpha.-Chlordene	336	C10H6Cl6	056534-02-2	91
3	1-Perchloroethenyl-4-ethynylbenzene	230	C10H5Cl3	1000283-76-9	90
4	1-(5-Hydroxy-3-pyridin-4-yl-5-tr...	301	C13H14F3N3O2	1000311-57-2	59
5	Naphthalene, 2,3,6-trichloro-	230	C10H5Cl3	055720-40-6	50





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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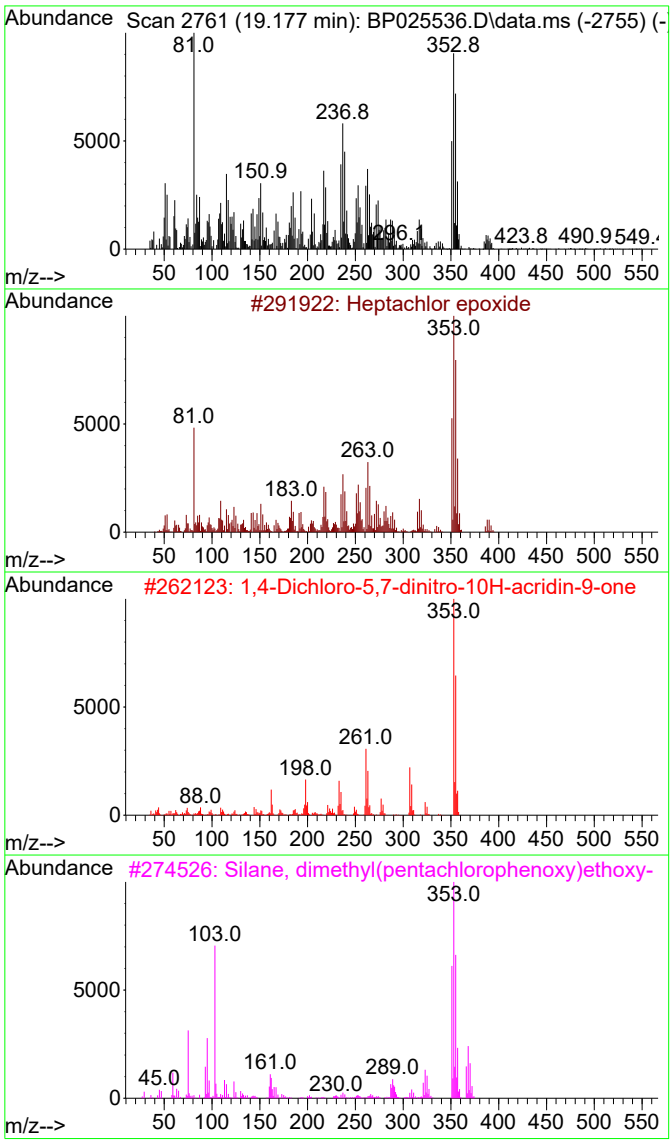
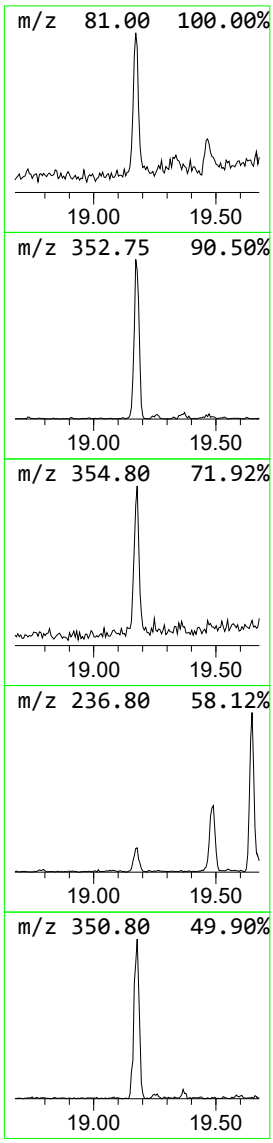
Peak Number 6 Heptachlor epoxide Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.177	2.06 ng	291668	Phenanthrene-d10	17.201

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptachlor epoxide	386	C10H5Cl7O	001024-57-3	95
2	1,4-Dichloro-5,7-dinitro-10H-acr...	353	C13H5Cl2N3O5	148877-13-8	38
3	Silane, dimethyl(pentachlorophen...	366	C10H11Cl5O2Si	1010347-47-6	32
4	Titanium, chlorobis[(1,2,3,4,5-....	353	C20H30ClTi	073348-99-9	27
5	7-Chloro-3,4-dihydro-3-[4-methox...	353	C20H16ClNO3	144155-15-7	20





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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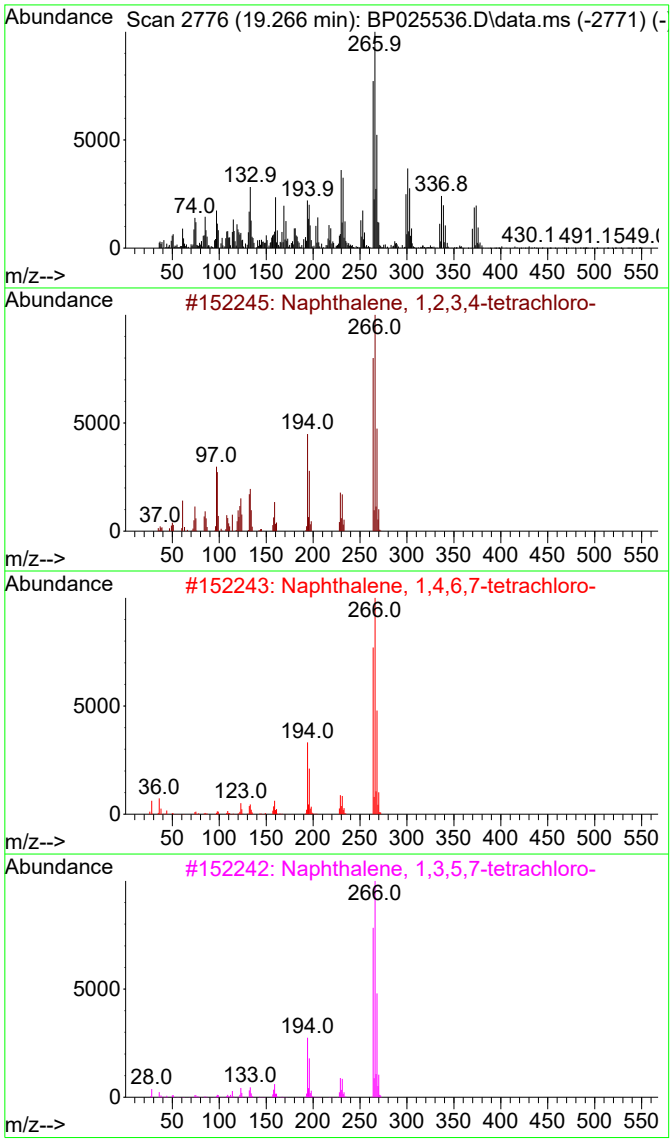
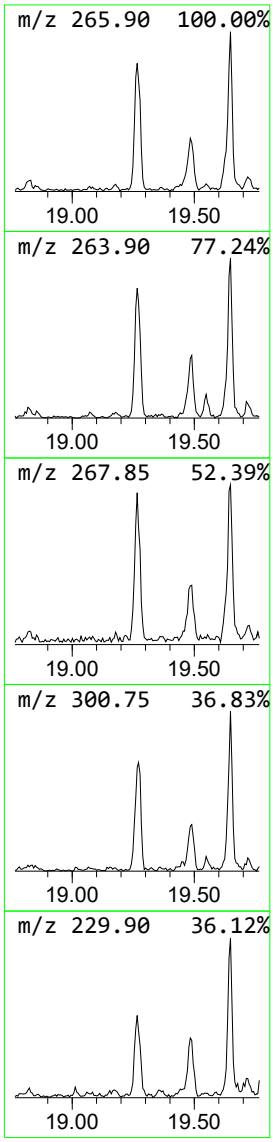
Peak Number 7 Naphthalene, 1,2,3,4-tetrac... Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.266	2.18 ng	308053	Phenanthrene-d10	17.201

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,2,3,4-tetrachloro-	264	C10H4Cl4	020020-02-4	78
2	Naphthalene, 1,4,6,7-tetrachloro-	264	C10H4Cl4	055720-43-9	78
3	Naphthalene, 1,3,5,7-tetrachloro-	264	C10H4Cl4	053555-64-9	78
4	Tetrachloroisophthalonitrile	264	C8Cl4N2	001897-45-6	53
5	Tetrachloroterephthalonitrile	264	C8Cl4N2	001897-41-2	49





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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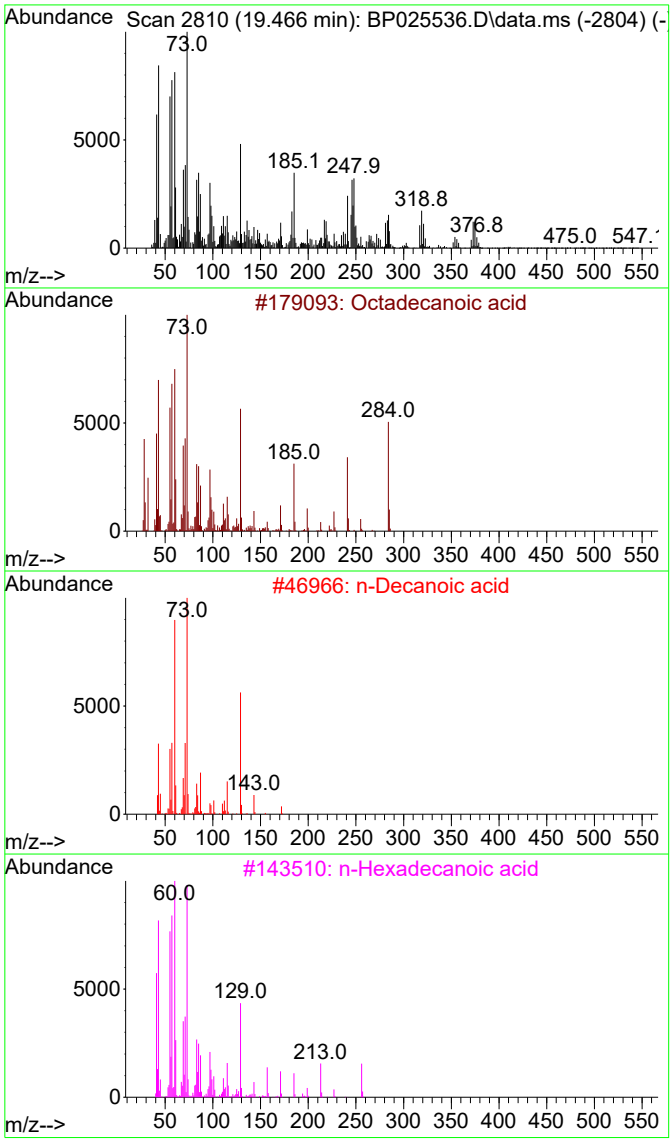
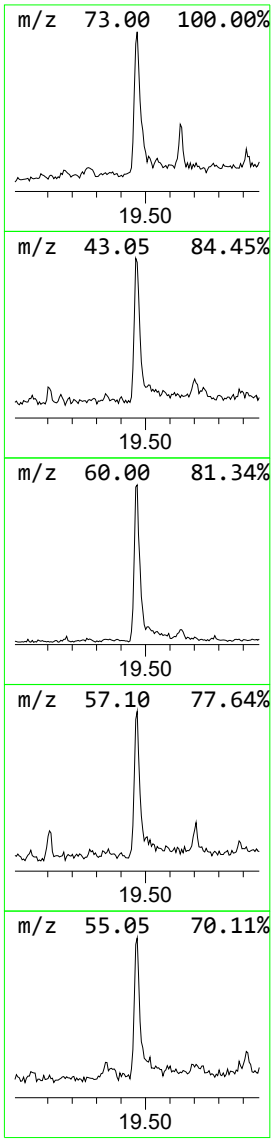
Peak Number 8 Octadecanoic acid Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.466	3.56 ng	589963	Chrysene-d12	21.648

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanoic acid	284	C18H36O2	000057-11-4	97
2	n-Decanoic acid	172	C10H20O2	000334-48-5	89
3	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	89
4	Tricosanoic acid	354	C23H46O2	002433-96-7	72
5	Tridecanoic acid	214	C13H26O2	000638-53-9	64





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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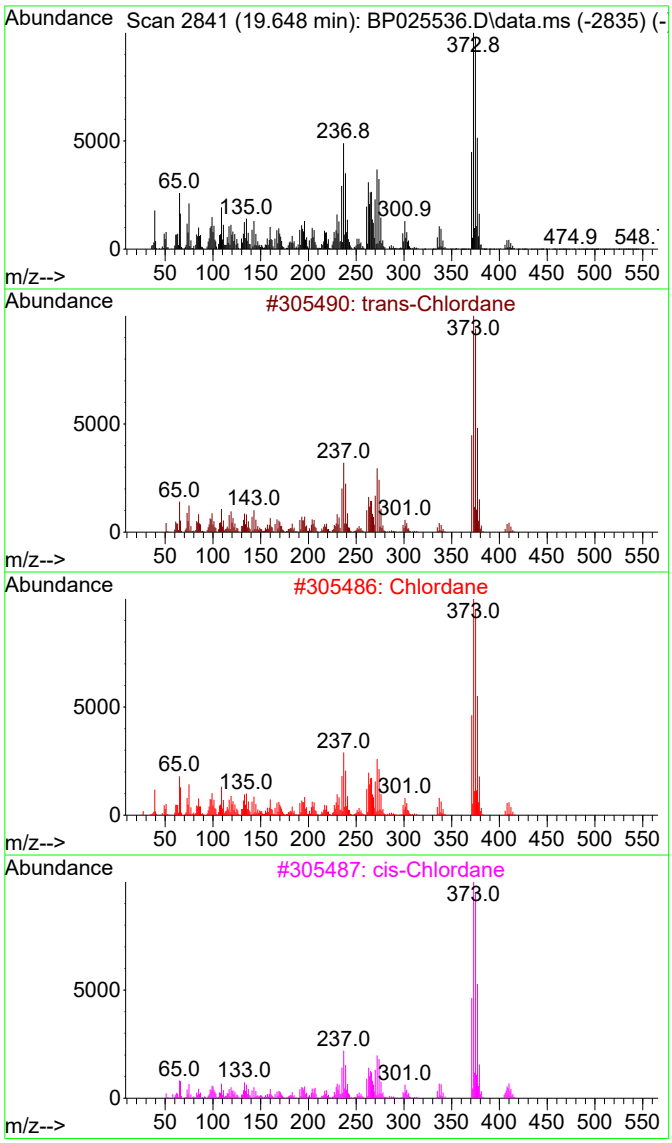
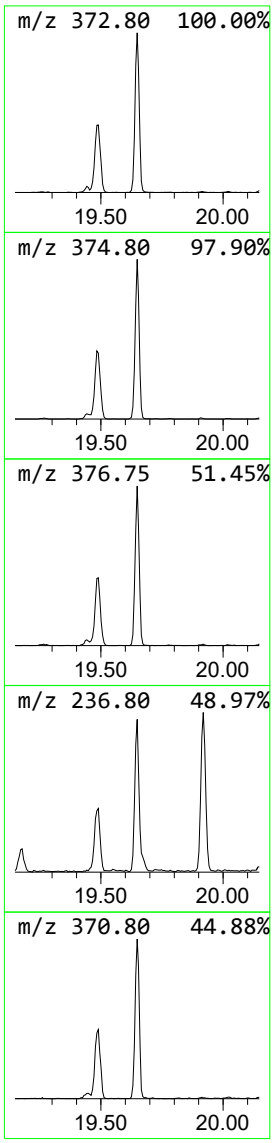
Peak Number 9 trans-Chlordane Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.648	7.77 ng	1286810	Chrysene-d12	21.648

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	trans-Chlordane	406	C10H6Cl8	005103-74-2	99
2	Chlordane	406	C10H6Cl8	000057-74-9	99
3	cis-Chlordane	406	C10H6Cl8	005103-71-9	96
4	4,7-Methanoindene, 1,2,3,5,6,7,8...	406	C10H6Cl8	1000017-10-9	91
5	6,8-Dichloro-2-(1-adamantanyl)-4...	375	C20H19Cl2NO2	049647-91-8	12





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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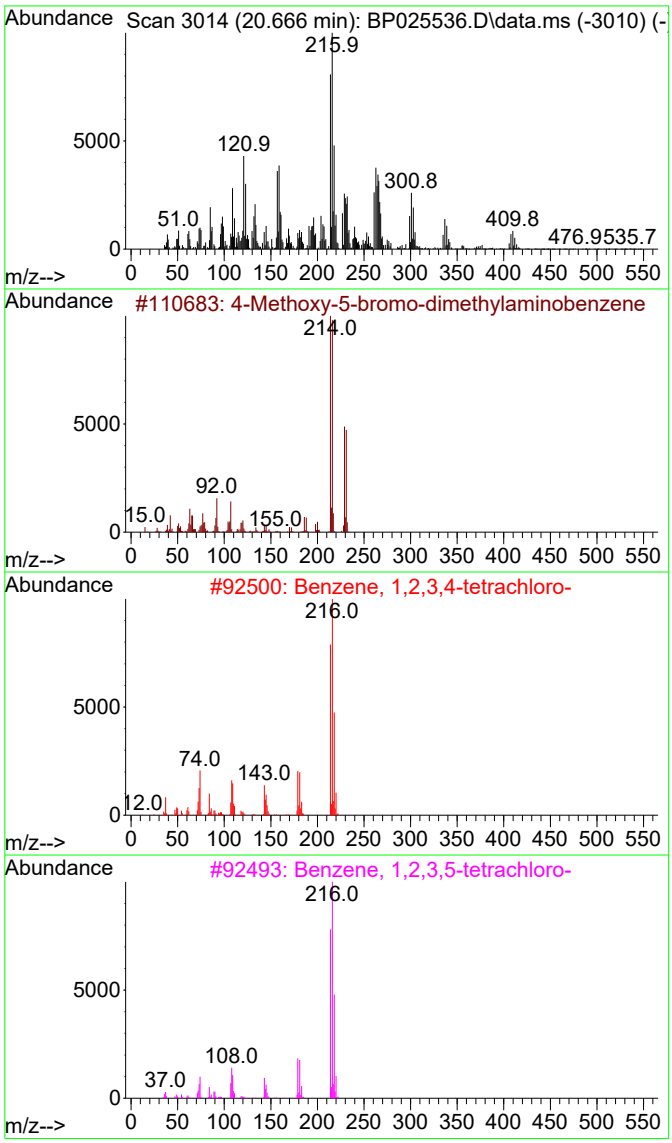
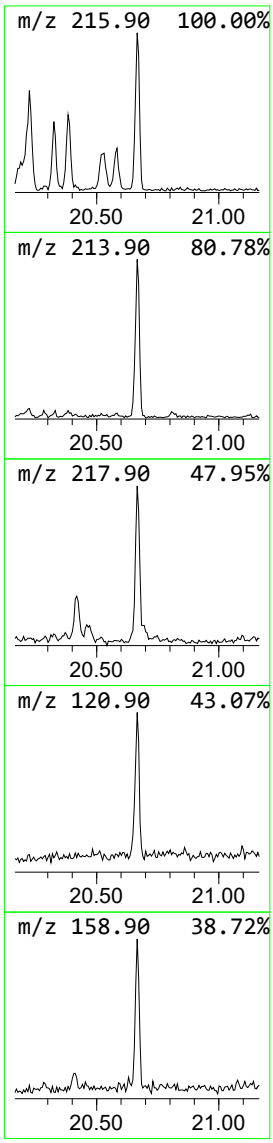
Peak Number 10 4-Methoxy-5-bromo-dimethyla... Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.666	2.10 ng	348289	Chrysene-d12	21.648

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4-Methoxy-5-bromo-dimethylaminob...	229	C9H12BrNO	1010374-81-1	50
2	Benzene, 1,2,3,4-tetrachloro-	214	C6H2Cl4	000634-66-2	45
3	Benzene, 1,2,3,5-tetrachloro-	214	C6H2Cl4	000634-90-2	45
4	Benzene, 1,2,4,5-tetrachloro-	214	C6H2Cl4	000095-94-3	45
5	2,4-Dichloro-6-n-butoxy-1,5-naph...	270	C12H12Cl2N2O	1010213-83-1	38





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

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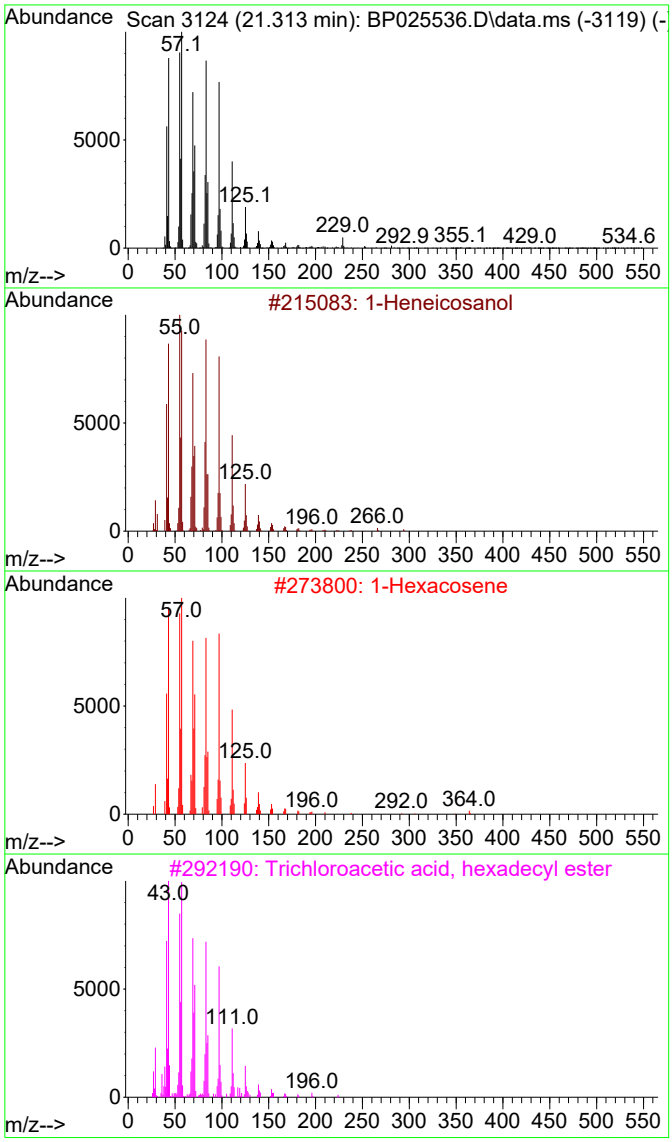
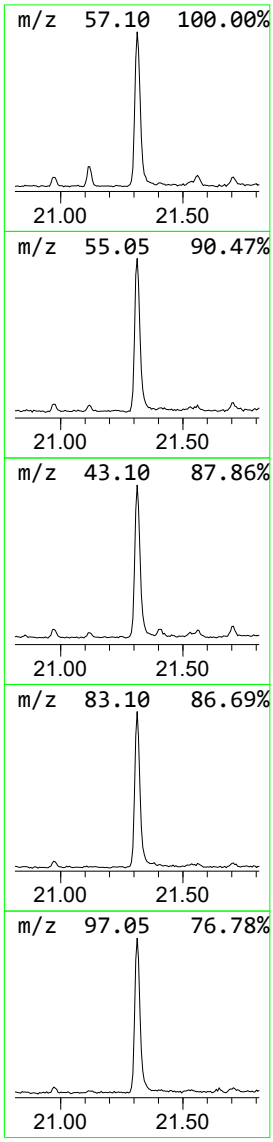
Peak Number 11 1-Heneicosanol Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.313	9.69 ng	1603930	Chrysene-d12	21.648

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	Trichloroacetic acid, hexadecyl ...	386	C18H33Cl3O2	074339-54-1	94
4	Trifluoroacetoxy hexadecane	338	C18H33F3O2	006222-03-3	94
5	Pentacos-1-ene	350	C25H50	016980-85-1	94





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TIC Library : C:\Database\NIST20.L
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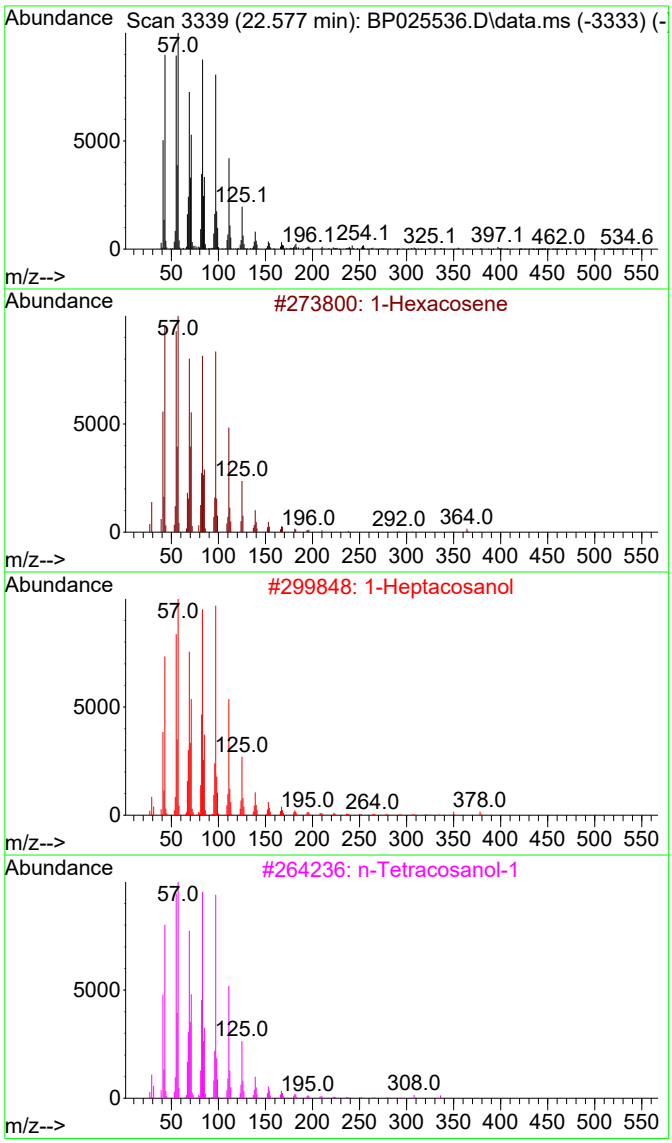
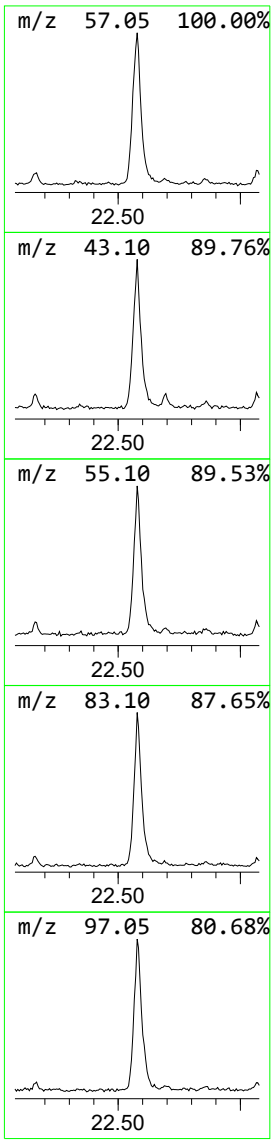
Peak Number 12 1-Hexacosene Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.577	8.25 ng	1365910	Chrysene-d12	21.648

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Hexacosene	364	C26H52	018835-33-1	95
2	1-Heptacosanol	396	C27H56O	002004-39-9	95
3	n-Tetracosanol-1	354	C24H50O	000506-51-4	94
4	Octacosanol	410	C28H58O	000557-61-9	94
5	Heptadecyl heptafluorobutyrate	452	C21H35F7O2	959085-66-6	94





Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025536.D
Acq On : 21 Aug 2025 12:12
Operator : CG/JU
Sample : Q2819-12
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
17M-S

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

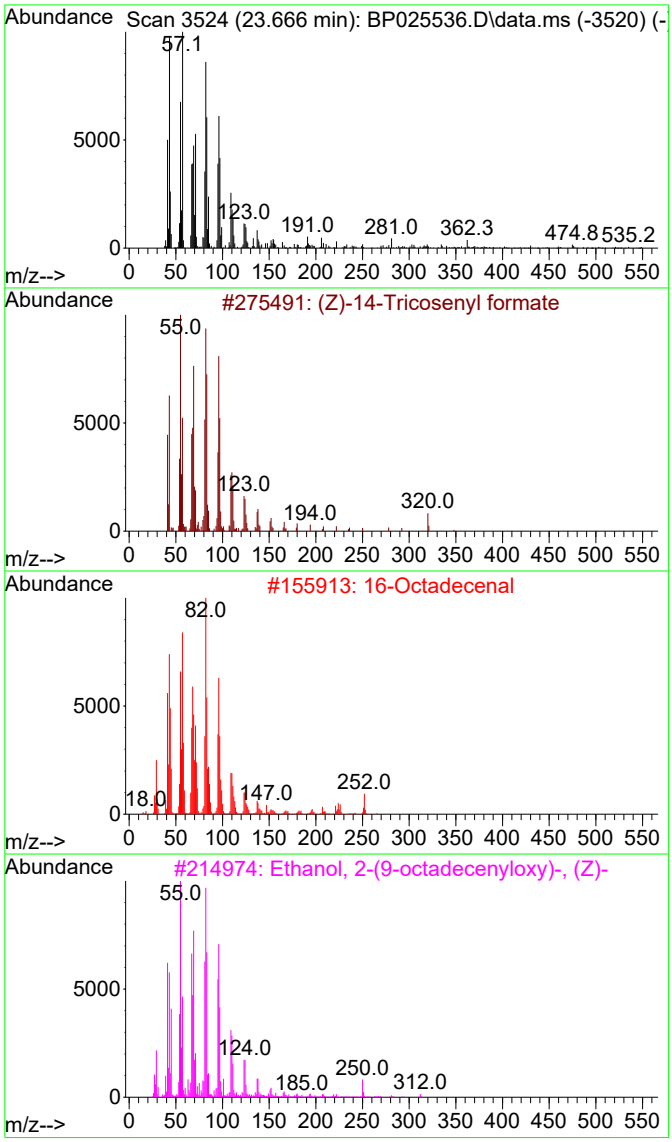
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

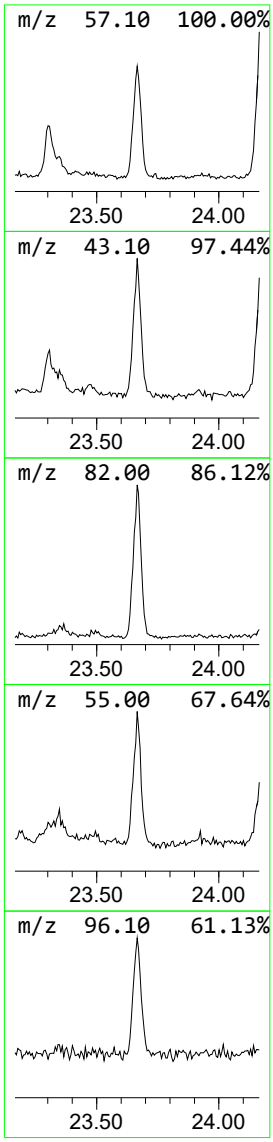
****

Peak Number 13 (Z)-14-Tricosenyl formate Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.666	4.03 ng	620764	Perylene-d12	25.018

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	(Z)-14-Tricosenyl formate	366	C24H46O2	077899-10-6	95
2	16-Octadecenal	266	C18H34O	056554-87-1	94
3	Ethanol, 2-(9-octadecenyloxy)-, ...	312	C20H40O2	005353-25-3	93
4	Eicosen-1-ol, cis-9-	296	C20H40O	112248-30-3	92
5	Dotriacontanal	464	C32H64O	057878-00-9	91





Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025536.D
Acq On : 21 Aug 2025 12:12
Operator : CG/JU
Sample : Q2819-12
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
17M-S

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

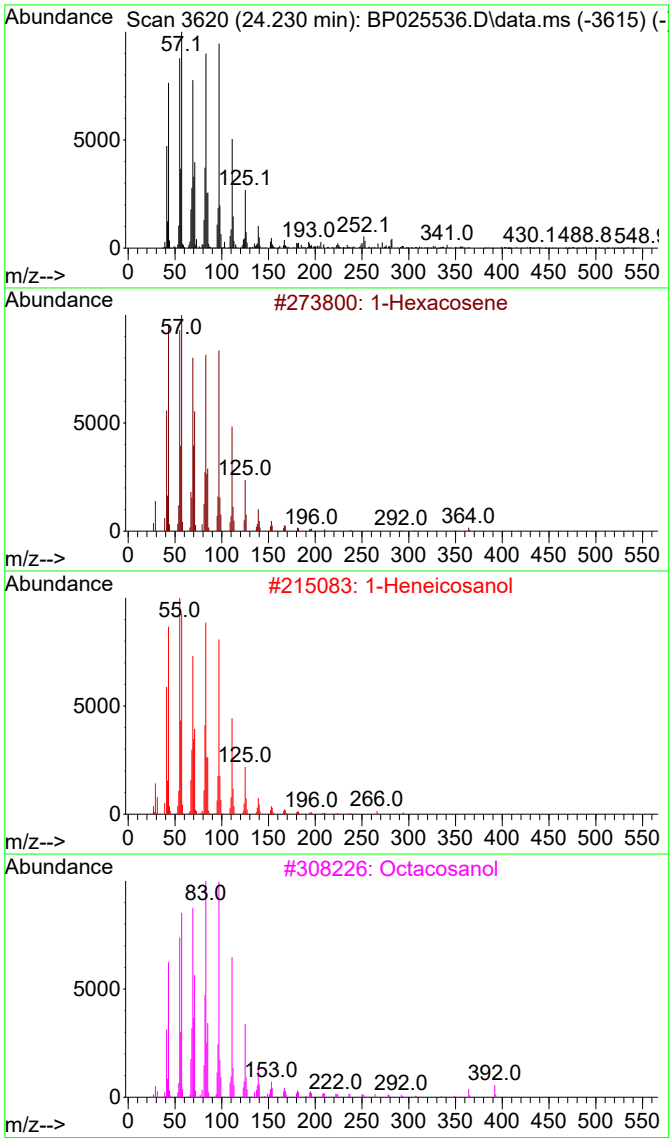
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

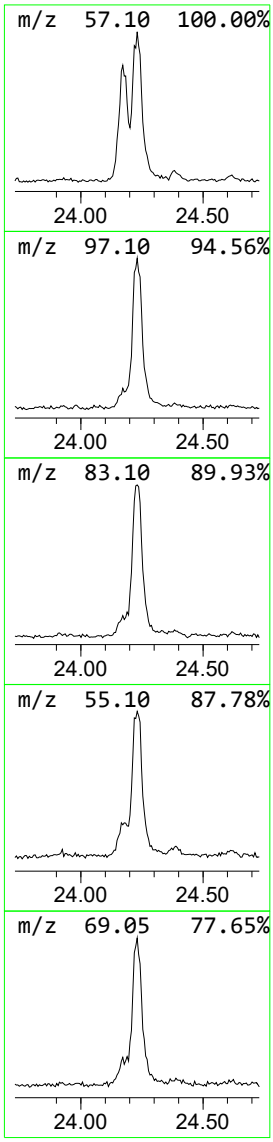
****

Peak Number 14 Octacosanol Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
24.230	8.51 ng	1309120	Perylene-d12	25.018

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Hexacosene	364	C26H52	018835-33-1	96
2	1-Heneicosanol	312	C21H44O	015594-90-8	95
3	Octacosanol	410	C28H58O	000557-61-9	94
4	n-Tetracosanol-1	354	C24H50O	000506-51-4	94
5	n-Nonadecanol-1	284	C19H40O	001454-84-8	94





Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025536.D
Acq On : 21 Aug 2025 12:12
Operator : CG/JU
Sample : Q2819-12
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
17M-S

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.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...	3.037	20.4	ng	1322370	1	7.784	1293410	20.0
2-Pentanone, 4-...	4.943	5.4	ng	347210	1	7.784	1293410	20.0
Benzophenone	15.784	8.3	ng	998003	3	14.401	2414250	20.0
n-Hexadecanoic ...	18.136	8.8	ng	1242910	4	17.201	2832100	20.0
1,6-Methano-1H-...	18.525	24.4	ng	3454900	4	17.201	2832100	20.0
Heptachlor epoxide	19.177	2.1	ng	291668	4	17.201	2832100	20.0
Naphthalene, 1,...	19.266	2.2	ng	308053	4	17.201	2832100	20.0
Octadecanoic acid	19.466	3.6	ng	589963	5	21.648	3310500	20.0
trans-Chlordane	19.648	7.8	ng	1286810	5	21.648	3310500	20.0
4-Methoxy-5-bro...	20.666	2.1	ng	348289	5	21.648	3310500	20.0
1-Heneicosanol	21.313	9.7	ng	1603930	5	21.648	3310500	20.0
1-Hexacosene	22.577	8.3	ng	1365910	5	21.648	3310500	20.0
(Z)-14-Tricosen...	23.666	4.0	ng	620764	6	25.018	3077570	20.0
Octacosanol	24.230	8.5	ng	1309120	6	25.018	3077570	20.0

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	17M-E	SDG No.:	Q2819
Lab Sample ID:	Q2819-13	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	83.7
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
BF143537.D	1	08/15/25 08:25	08/21/25 18:34	PB169259

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
100-52-7	Benzaldehyde	320	U	190	320	390	ug/Kg
108-95-2	Phenol	160	U	26.4	160	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	160	U	29.0	160	200	ug/Kg
95-57-8	2-Chlorophenol	160	U	29.1	160	200	ug/Kg
95-48-7	2-Methylphenol	160	U	35.7	160	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	160	U	44.7	160	200	ug/Kg
98-86-2	Acetophenone	160	U	35.2	160	200	ug/Kg
65794-96-9	3+4-Methylphenols	320	U	49.0	320	390	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	95.4	U	56.5	95.4	95.4	ug/Kg
67-72-1	Hexachloroethane	160	U	21.0	160	200	ug/Kg
98-95-3	Nitrobenzene	160	U	21.8	160	200	ug/Kg
78-59-1	Isophorone	160	U	39.1	160	200	ug/Kg
88-75-5	2-Nitrophenol	160	U	69.4	160	200	ug/Kg
105-67-9	2,4-Dimethylphenol	160	U	77.3	160	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	160	U	36.7	160	200	ug/Kg
120-83-2	2,4-Dichlorophenol	160	U	33.8	160	200	ug/Kg
91-20-3	Naphthalene	160	U	27.1	160	200	ug/Kg
106-47-8	4-Chloroaniline	160	U	42.2	160	200	ug/Kg
87-68-3	Hexachlorobutadiene	160	U	30.2	160	200	ug/Kg
105-60-2	Caprolactam	320	U	62.1	320	390	ug/Kg
59-50-7	4-Chloro-3-methylphenol	160	U	34.2	160	200	ug/Kg
91-57-6	2-Methylnaphthalene	160	U	30.5	160	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	320	U	140	320	390	ug/Kg
88-06-2	2,4,6-Trichlorophenol	160	U	23.6	160	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	160	U	34.7	160	200	ug/Kg
92-52-4	1,1-Biphenyl	160	U	26.0	160	200	ug/Kg
91-58-7	2-Chloronaphthalene	160	U	26.8	160	200	ug/Kg
88-74-4	2-Nitroaniline	160	U	57.4	160	200	ug/Kg
131-11-3	Dimethylphthalate	160	U	32.3	160	200	ug/Kg

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Fax : 908 789 8922

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	17M-E	SDG No.:	Q2819
Lab Sample ID:	Q2819-13	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	83.7
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
BF143537.D	1	08/15/25 08:25	08/21/25 18:34	PB169259

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	160	U	34.5	160	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	160	U	40.1	160	200	ug/Kg
99-09-2	3-Nitroaniline	160	U	54.9	160	200	ug/Kg
83-32-9	Acenaphthene	160	U	25.4	160	200	ug/Kg
51-28-5	2,4-Dinitrophenol	320	U	270	320	390	ug/Kg
100-02-7	4-Nitrophenol	320	U	130	320	390	ug/Kg
132-64-9	Dibenzofuran	160	U	27.1	160	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	160	U	59.8	160	200	ug/Kg
84-66-2	Diethylphthalate	160	U	33.8	160	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	160	U	31.8	160	200	ug/Kg
86-73-7	Fluorene	160	U	30.2	160	200	ug/Kg
100-01-6	4-Nitroaniline	160	U	76.6	160	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	320	U	120	320	390	ug/Kg
86-30-6	n-Nitrosodiphenylamine	160	U	39.2	160	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	160	U	33.2	160	200	ug/Kg
118-74-1	Hexachlorobenzene	160	U	30.2	160	200	ug/Kg
1912-24-9	Atrazine	160	U	40.6	160	200	ug/Kg
87-86-5	Pentachlorophenol	320	U	61.2	320	390	ug/Kg
85-01-8	Phenanthrene	160	U	24.9	160	200	ug/Kg
120-12-7	Anthracene	160	U	39.7	160	200	ug/Kg
86-74-8	Carbazole	160	U	37.2	160	200	ug/Kg
84-74-2	Di-n-butylphthalate	160	U	57.1	160	200	ug/Kg
206-44-0	Fluoranthene	160	U	35.8	160	200	ug/Kg
129-00-0	Pyrene	160	U	42.9	160	200	ug/Kg
85-68-7	Butylbenzylphthalate	160	U	85.2	160	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	320	U	43.8	320	390	ug/Kg
56-55-3	Benzo(a)anthracene	160	U	27.4	160	200	ug/Kg
218-01-9	Chrysene	160	U	23.7	160	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	160	U	70.6	160	200	ug/Kg
117-84-0	Di-n-octyl phthalate	320	U	100	320	390	ug/Kg
205-99-2	Benzo(b)fluoranthene	160	U	22.7	160	200	ug/Kg

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Fax : 908 789 8922

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	17M-E	SDG No.:	Q2819
Lab Sample ID:	Q2819-13	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	83.7
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
BF143537.D	1	08/15/25 08:25	08/21/25 18:34	PB169259

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	160	U	26.7	160	200	ug/Kg
50-32-8	Benzo(a)pyrene	160	U	35.2	160	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	160	U	34.7	160	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	160	U	32.7	160	200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	160	U	30.7	160	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	160	U	30.5	160	200	ug/Kg
123-91-1	1,4-Dioxane	160	U	53.9	160	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	160	U	32.7	160	200	ug/Kg
SURROGATES							
367-12-4	2-Fluorophenol	78.2		35 - 115		52%	SPK: 150
13127-88-3	Phenol-d6	80.0		34 - 127		53%	SPK: 150
4165-60-0	Nitrobenzene-d5	58.1		37 - 122		58%	SPK: 100
321-60-8	2-Fluorobiphenyl	57.8		44 - 115		58%	SPK: 100
118-79-6	2,4,6-Tribromophenol	72.9		39 - 132		49%	SPK: 150
1718-51-0	Terphenyl-d14	40.4	*	54 - 127		40%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	110000	6.928				
1146-65-2	Naphthalene-d8	414000	8.204				
15067-26-2	Acenaphthene-d10	209000	9.963				
1517-22-2	Phenanthrene-d10	282000	11.451				
1719-03-5	Chrysene-d12	212000	14.092				
1520-96-3	Perylene-d12	252000	15.592				
TENTATIVE IDENTIFIED COMPOUNDS							
000994-05-8	Butane, 2-methoxy-2-methyl-	1000	J			2.26	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	230	AB			5.16	ug/Kg
000119-61-9	Benzophenone	280	J			10.7	ug/Kg

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Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	17M-E	SDG No.:	Q2819
Lab Sample ID:	Q2819-13	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	83.7
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
BF143537.D	1	08/15/25 08:25	08/21/25 18:34	PB169259

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	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\BF082125\
Data File : BF143537.D
Acq On : 21 Aug 2025 18:34
Operator : RC/JU
Sample : Q2819-13
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
17M-E

Quant Time: Aug 22 01:01:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 21 06:12:21 2025
Response via : Initial Calibration

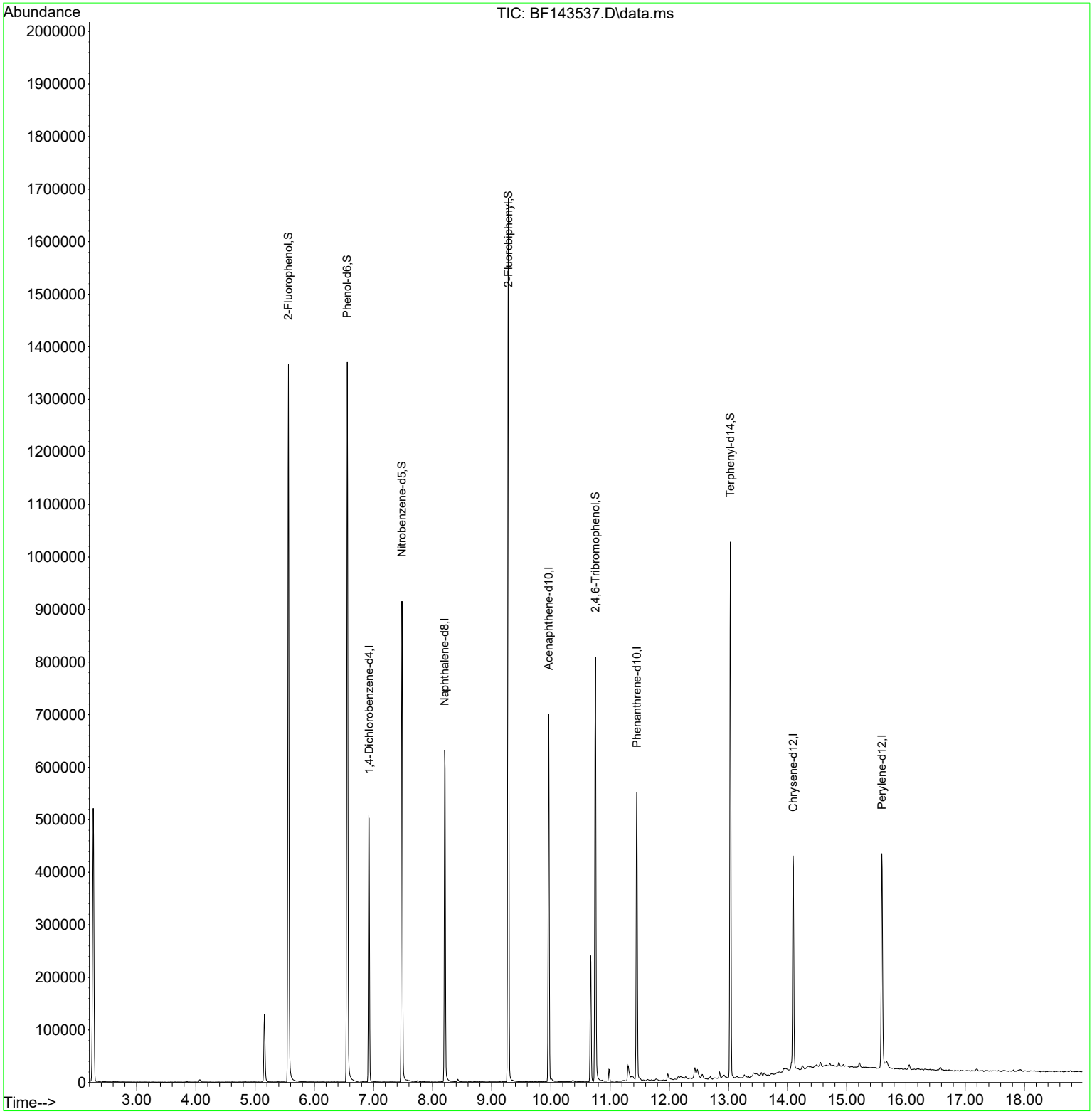
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.928	152	110058	20.000	ng	0.00
21) Naphthalene-d8	8.204	136	413680	20.000	ng	0.00
39) Acenaphthene-d10	9.963	164	209222	20.000	ng	0.00
64) Phenanthrene-d10	11.451	188	282152	20.000	ng	0.00
76) Chrysene-d12	14.092	240	211843	20.000	ng	-0.01
86) Perylene-d12	15.592	264	251712	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.563	112	492635	78.161	ng	0.00
7) Phenol-d6	6.557	99	622762	80.041	ng	-0.02
23) Nitrobenzene-d5	7.481	82	411747	58.082	ng	-0.02
42) 2,4,6-Tribromophenol	10.751	330	142070	72.948	ng	-0.01
45) 2-Fluorobiphenyl	9.280	172	732023	57.823	ng	0.00
79) Terphenyl-d14	13.033	244	490084	40.370	ng	0.00
Target Compounds						Qvalue

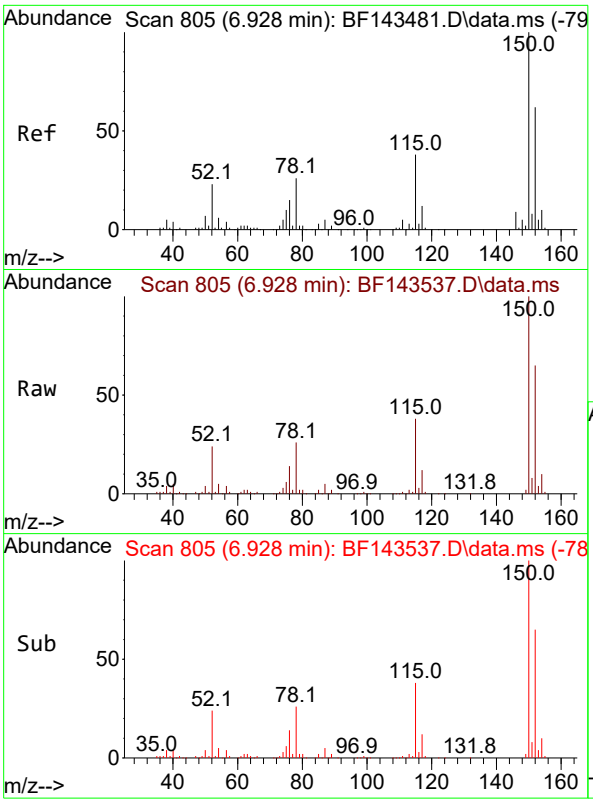
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
Data File : BF143537.D
Acq On : 21 Aug 2025 18:34
Operator : RC/JU
Sample : Q2819-13
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
17M-E

Quant Time: Aug 22 01:01:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 21 06:12:21 2025
Response via : Initial Calibration



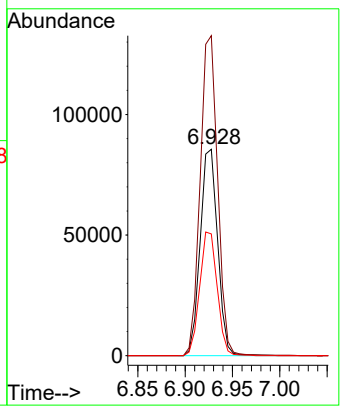


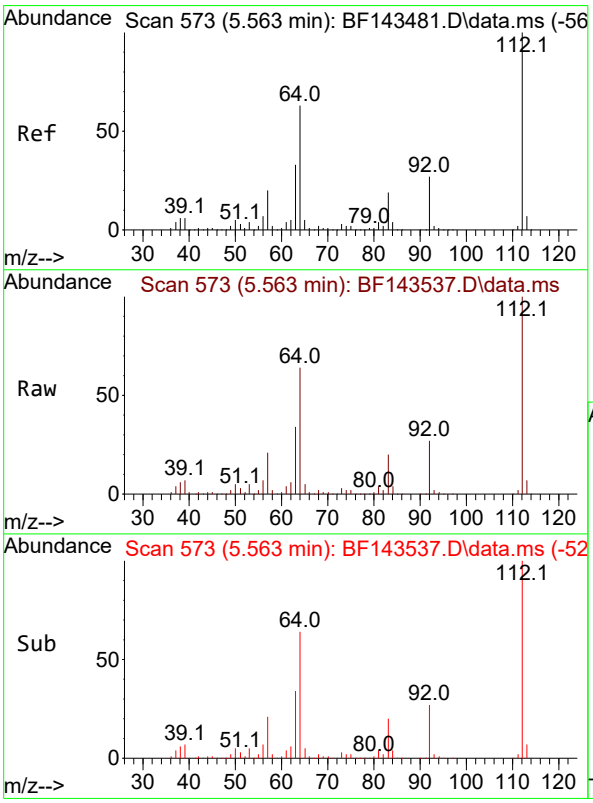
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.928 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF143537.D
Acq: 21 Aug 2025 18:34

Instrument :
BNA_F
ClientSampleId :
17M-E

Tgt Ion:152 Resp: 110058

Ion	Ratio	Lower	Upper
152	100		
150	155.0	128.9	193.3
115	59.0	49.2	73.8

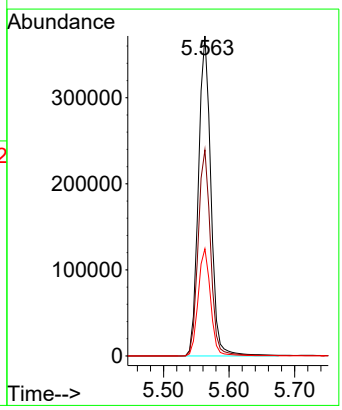


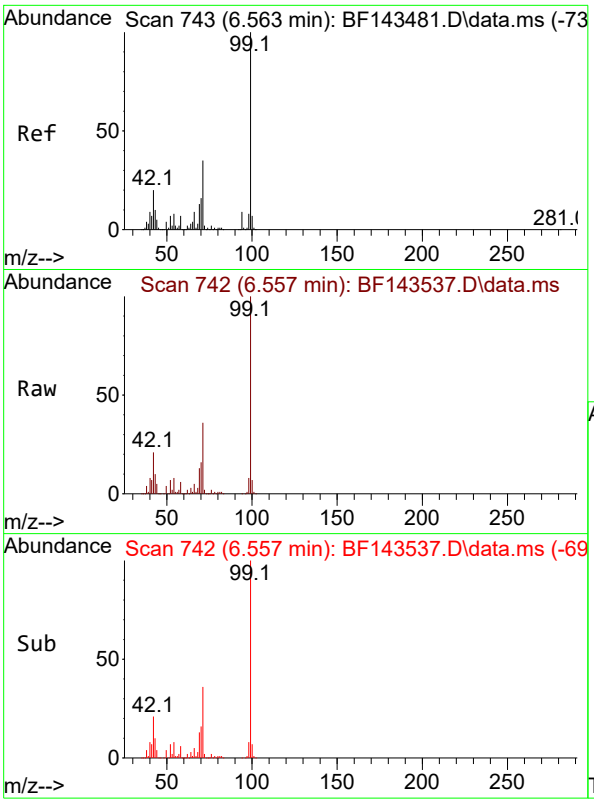


#5
2-Fluorophenol
Concen: 78.161 ng
RT: 5.563 min Scan# 573
Delta R.T. -0.000 min
Lab File: BF143537.D
Acq: 21 Aug 2025 18:34

Tgt Ion:112 Resp: 492635

Ion	Ratio	Lower	Upper
112	100		
64	64.4	50.4	75.6
63	33.5	26.4	39.6



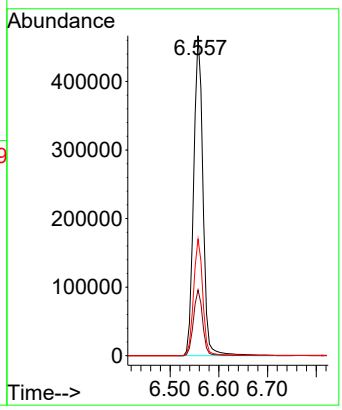


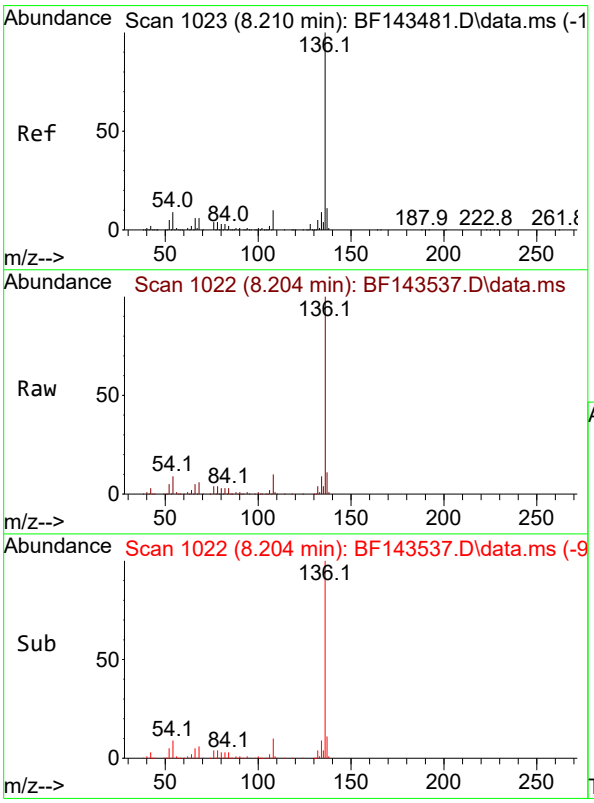
#7
Phenol-d6
Concen: 80.041 ng
RT: 6.557 min Scan# 7
Delta R.T. -0.018 min
Lab File: BF143537.D
Acq: 21 Aug 2025 18:34

Instrument :
BNA_F
ClientSampleId :
17M-E

Tgt Ion: 99 Resp: 622762

Ion	Ratio	Lower	Upper
99	100		
42	20.6	16.3	24.5
71	36.4	28.2	42.2

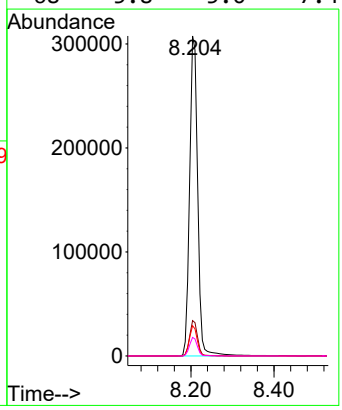


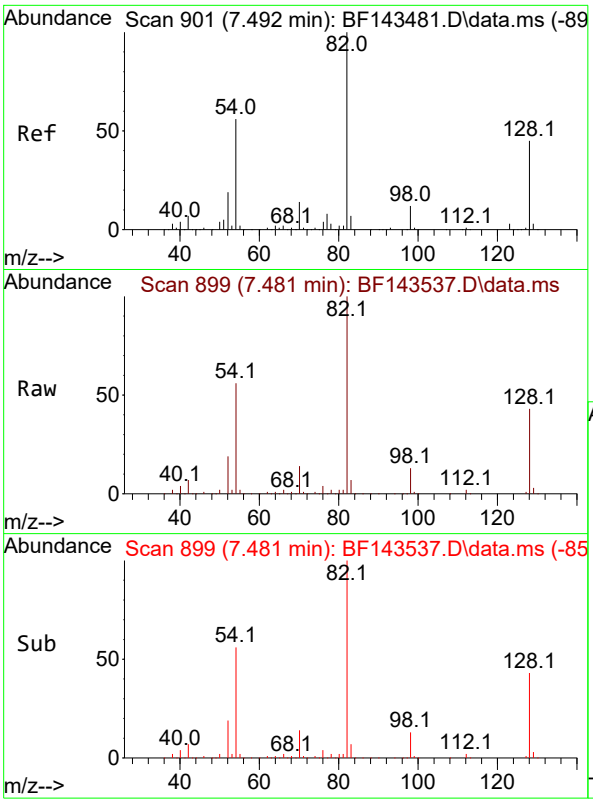


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.204 min Scan# 1022
Delta R.T. -0.006 min
Lab File: BF143537.D
Acq: 21 Aug 2025 18:34

Tgt Ion:136 Resp: 413680

Ion	Ratio	Lower	Upper
136	100		
137	11.1	9.0	13.4
54	9.5	7.4	11.2
68	5.8	5.0	7.4



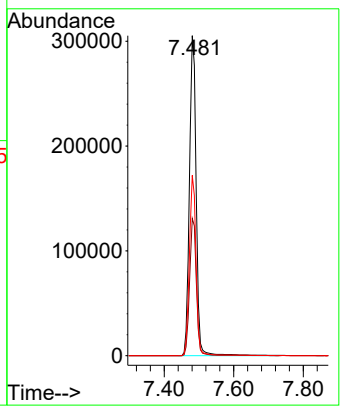


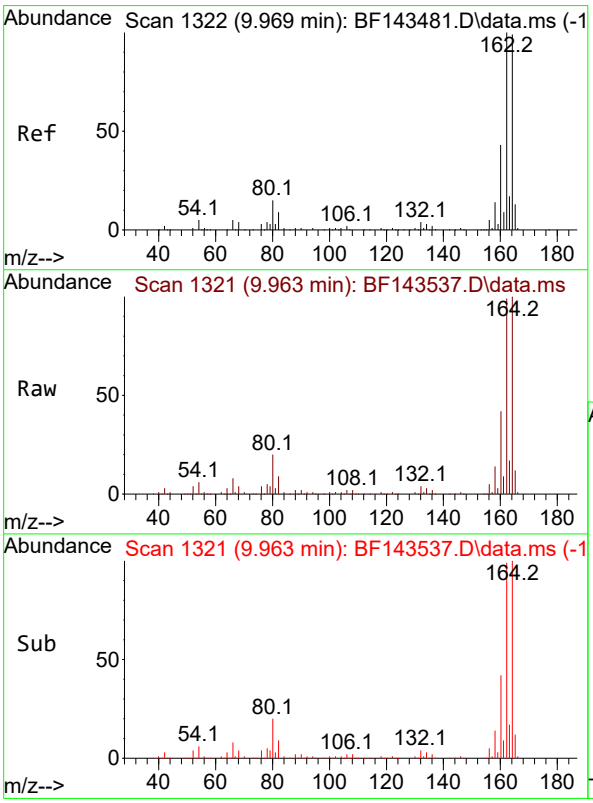
#23
Nitrobenzene-d5
Concen: 58.082 ng
RT: 7.481 min Scan# 8
Delta R.T. -0.018 min
Lab File: BF143537.D
Acq: 21 Aug 2025 18:34

Instrument :
BNA_F
ClientSampleId :
17M-E

Tgt Ion: 82 Resp: 411747

Ion	Ratio	Lower	Upper
82	100		
128	42.8	35.5	53.3
54	56.4	44.3	66.5

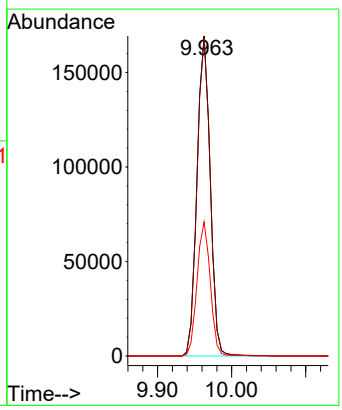


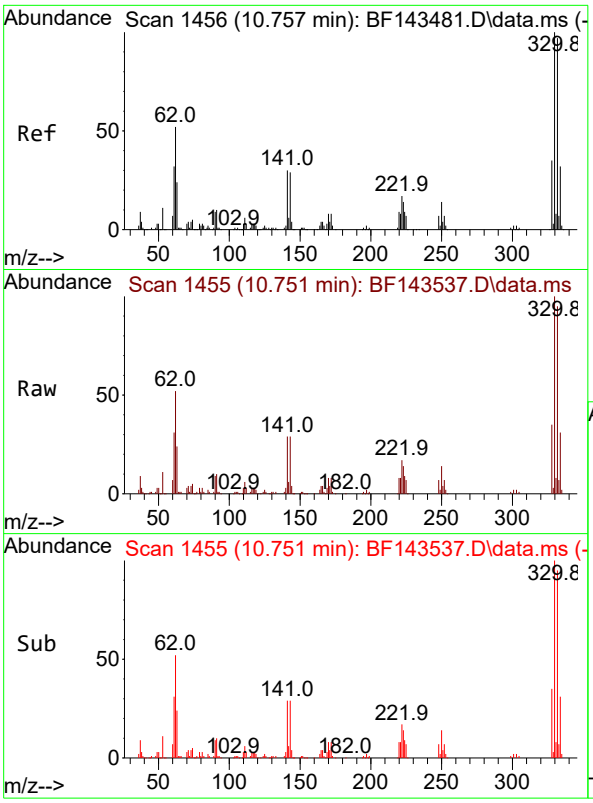


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.963 min Scan# 1321
Delta R.T. -0.006 min
Lab File: BF143537.D
Acq: 21 Aug 2025 18:34

Tgt Ion:164 Resp: 209222

Ion	Ratio	Lower	Upper
164	100		
162	99.5	80.5	120.7
160	41.9	34.3	51.5



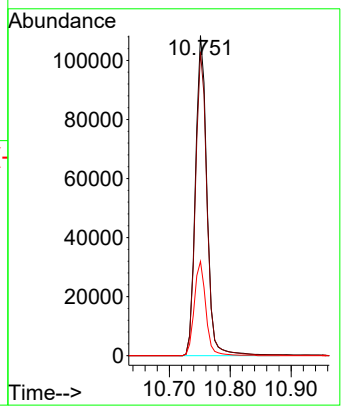


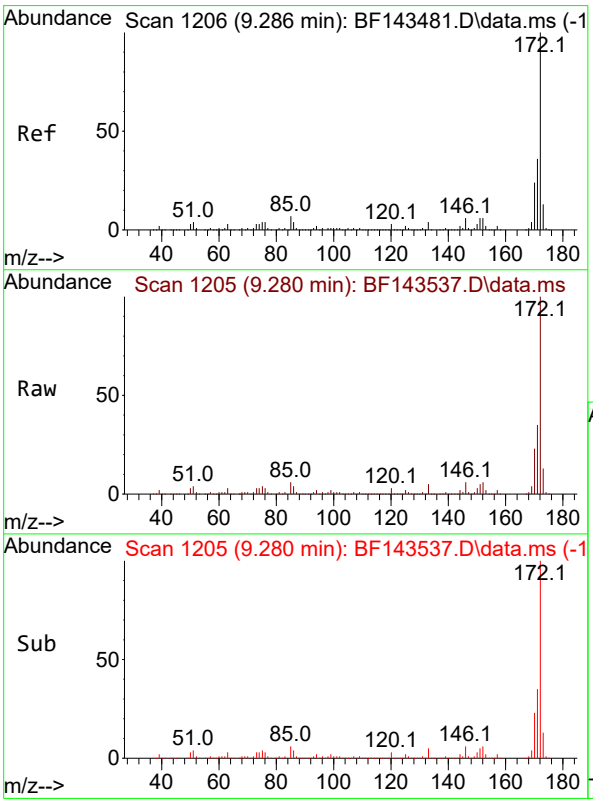
#42
2,4,6-Tribromophenol
Concen: 72.948 ng
RT: 10.751 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF143537.D
Acq: 21 Aug 2025 18:34

Instrument :
BNA_F
ClientSampleId :
17M-E

Tgt Ion:330 Resp: 142070

Ion	Ratio	Lower	Upper
330	100		
332	96.0	78.0	117.0
141	29.6	23.7	35.5

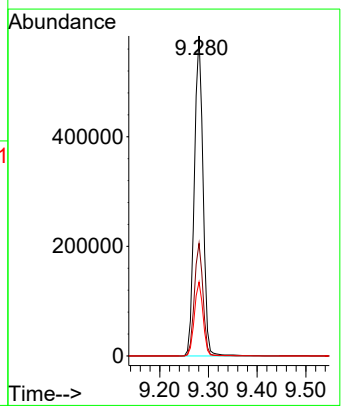


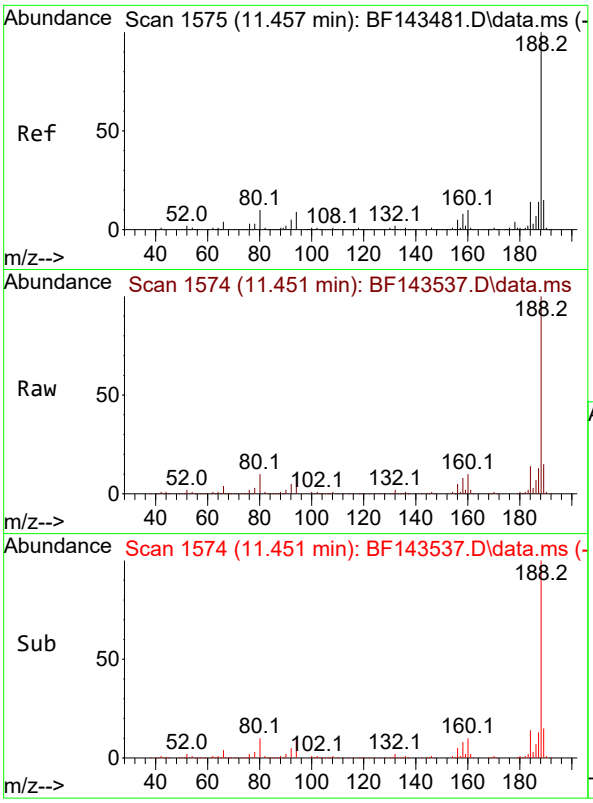


#45
2-Fluorobiphenyl
Concen: 57.823 ng
RT: 9.280 min Scan# 1205
Delta R.T. -0.006 min
Lab File: BF143537.D
Acq: 21 Aug 2025 18:34

Tgt Ion:172 Resp: 732023

Ion	Ratio	Lower	Upper
172	100		
171	35.2	28.8	43.2
170	23.1	18.8	28.2



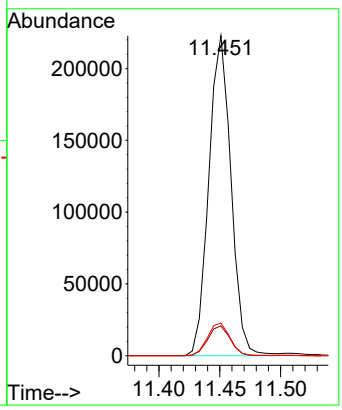


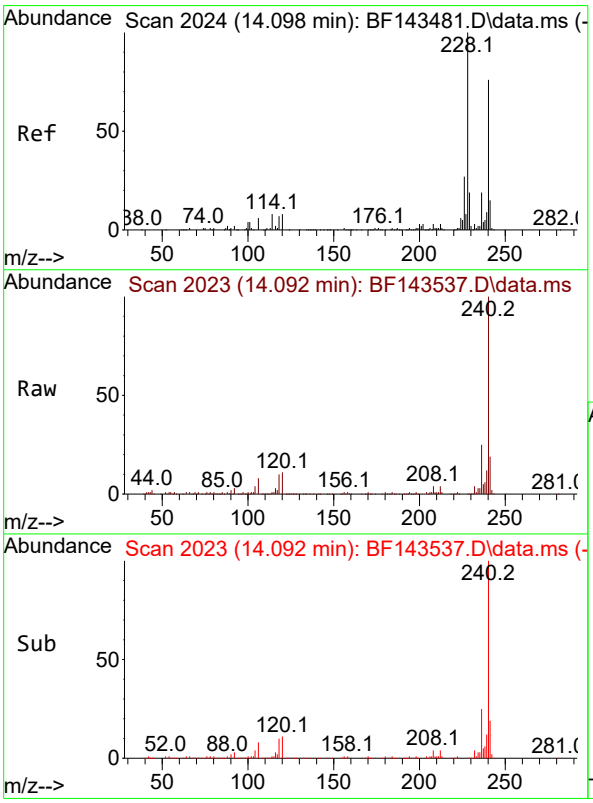
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.451 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143537.D
Acq: 21 Aug 2025 18:34

Instrument :
BNA_F
ClientSampleId :
17M-E

Tgt Ion:188 Resp: 282152

Ion	Ratio	Lower	Upper
188	100		
94	9.3	7.4	11.2
80	10.2	8.2	12.4

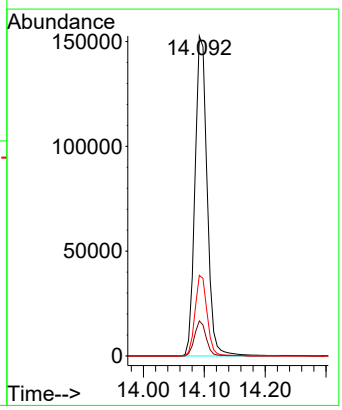


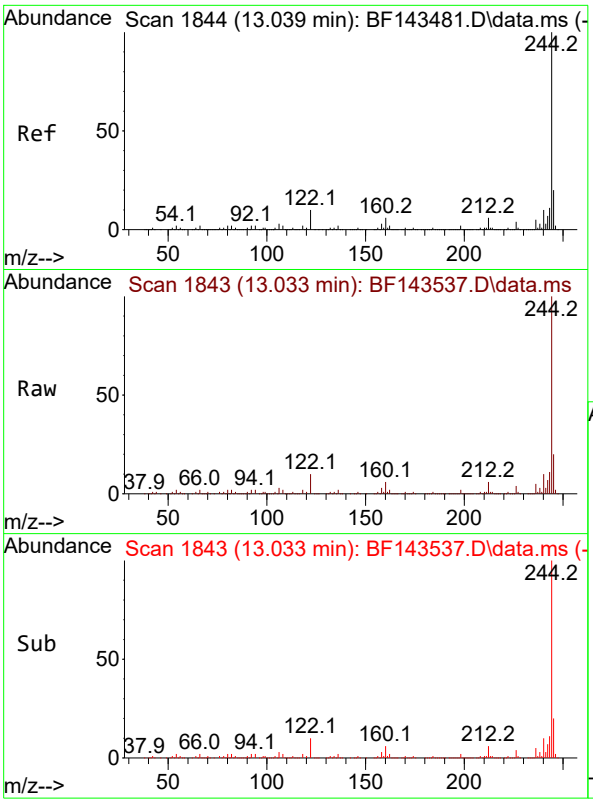


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.092 min Scan# 2023
Delta R.T. -0.012 min
Lab File: BF143537.D
Acq: 21 Aug 2025 18:34

Tgt Ion:240 Resp: 211843

Ion	Ratio	Lower	Upper
240	100		
120	10.9	8.6	12.8
236	25.2	20.4	30.6



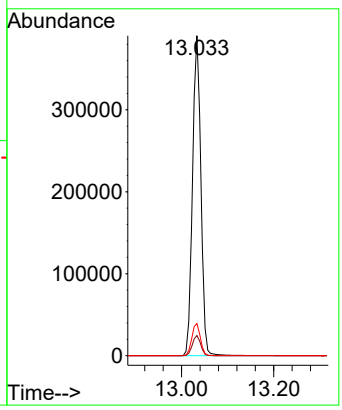


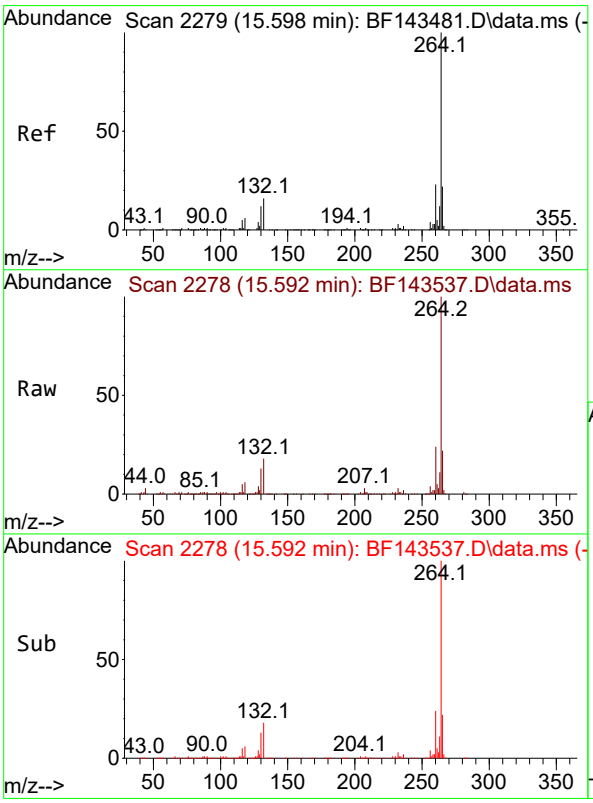
#79
Terphenyl-d14
Concen: 40.370 ng
RT: 13.033 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143537.D
Acq: 21 Aug 2025 18:34

Instrument :
BNA_F
ClientSampleId :
17M-E

Tgt Ion:244 Resp: 490084

Ion	Ratio	Lower	Upper
244	100		
212	6.3	5.2	7.8
122	10.1	7.9	11.9

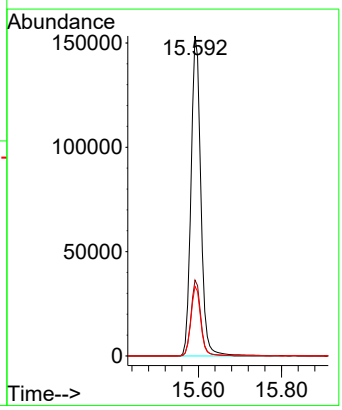




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.592 min Scan# 2278
Delta R.T. -0.006 min
Lab File: BF143537.D
Acq: 21 Aug 2025 18:34

Tgt Ion:264 Resp: 251712

Ion	Ratio	Lower	Upper
264	100		
260	23.7	18.7	28.1
265	21.8	17.6	26.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
Data File : BF143537.D
Acq On : 21 Aug 2025 18:34
Operator : RC/JU
Sample : Q2819-13
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
17M-E

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-BF082025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF143537.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.263	5	12	22	rVB	519641	816732	39.02%	5.423%
2	5.157	492	504	519	rBV	128366	191625	9.16%	1.272%
3	5.563	567	573	595	rBV	1365257	1809560	86.46%	12.014%
4	6.557	736	742	770	rBV	1369684	1828581	87.37%	12.140%
5	6.922	799	804	813	rBV	503022	648134	30.97%	4.303%
6	7.481	894	899	919	rBV	914556	1221226	58.35%	8.108%
7	8.204	1017	1022	1038	rBV	631332	834252	39.86%	5.539%
8	9.280	1199	1205	1216	rBV	1680177	2092985	100.00%	13.896%
9	9.963	1316	1321	1326	rBV	699330	860618	41.12%	5.714%
10	10.669	1436	1441	1450	rBV	239873	306282	14.63%	2.033%
11	10.751	1450	1455	1472	rVV	807544	1047033	50.03%	6.952%
12	10.980	1486	1494	1500	rVB	22827	30860	1.47%	0.205%
13	11.304	1544	1549	1557	rBV2	28466	63987	3.06%	0.425%
14	11.451	1569	1574	1590	rVB	549380	705541	33.71%	4.684%
15	11.974	1659	1663	1672	rBV3	12288	26029	1.24%	0.173%
16	12.433	1733	1741	1745	rBV2	20297	43947	2.10%	0.292%
17	12.474	1745	1748	1756	rVV3	17262	37766	1.80%	0.251%
18	13.033	1838	1843	1855	rVB	1019562	1275971	60.96%	8.472%
19	14.092	2015	2023	2032	rBV	406171	561778	26.84%	3.730%
20	15.592	2272	2278	2286	rBV	407412	658996	31.49%	4.375%

Sum of corrected areas: 15061903

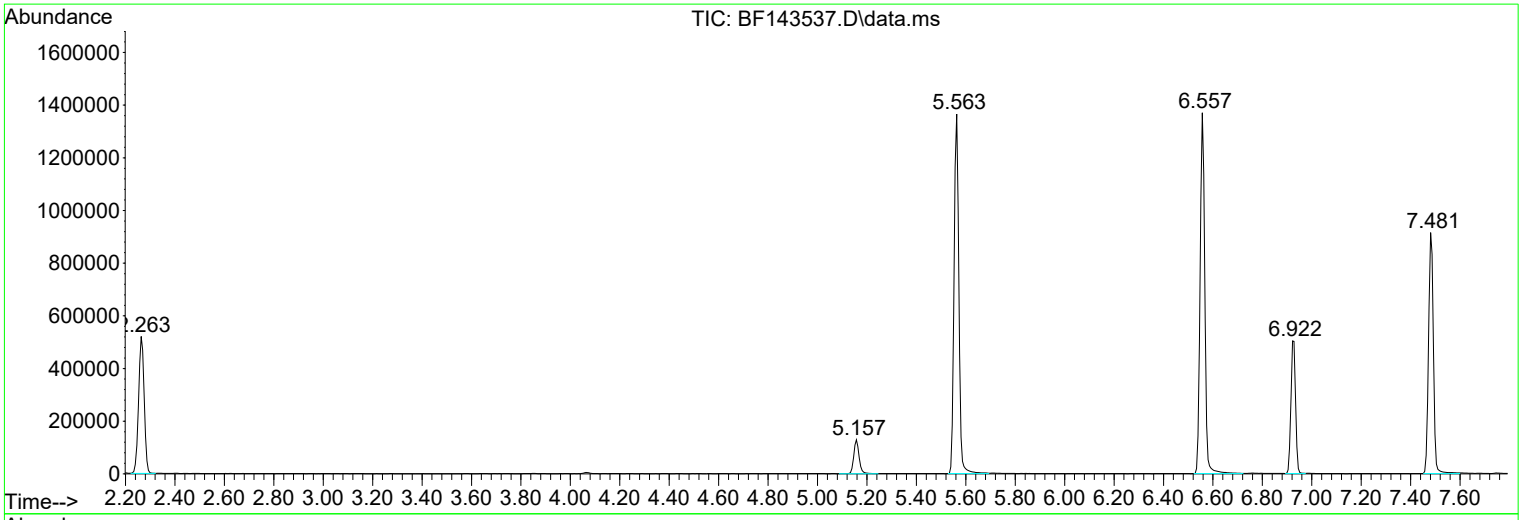
Sample Results: **BF143537.D**

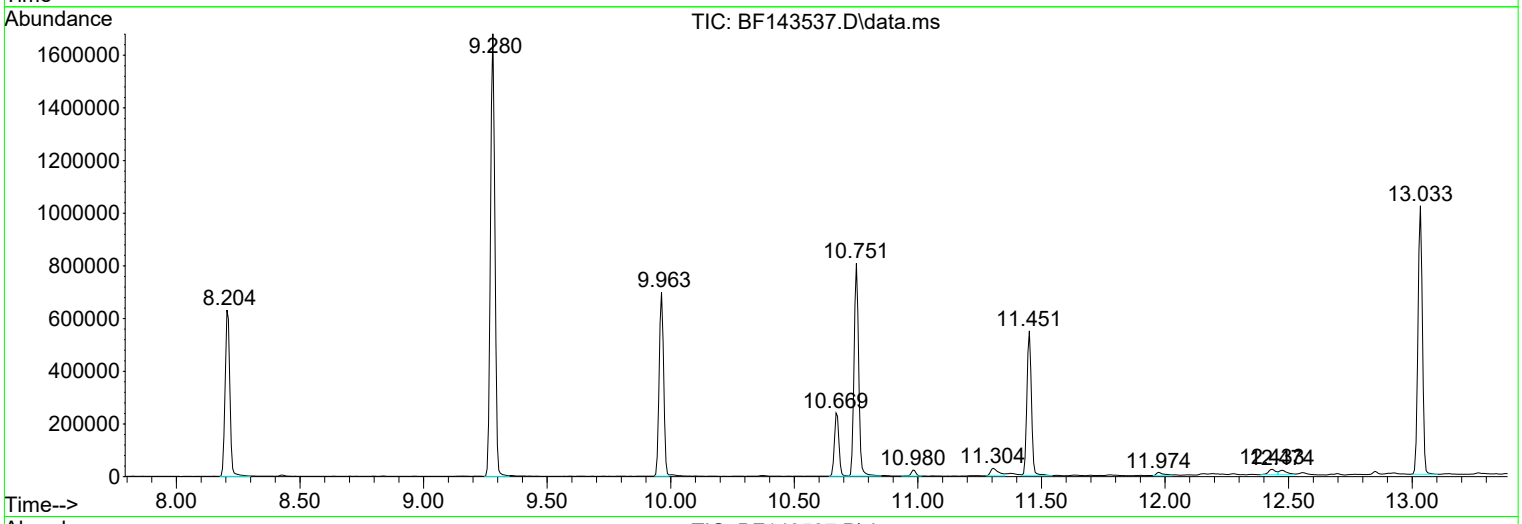
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
Data File : BF143537.D
Acq On : 21 Aug 2025 18:34
Operator : RC/JU
Sample : Q2819-13
Misc :
ALS Vial : 21 Sample Multiplier: 1

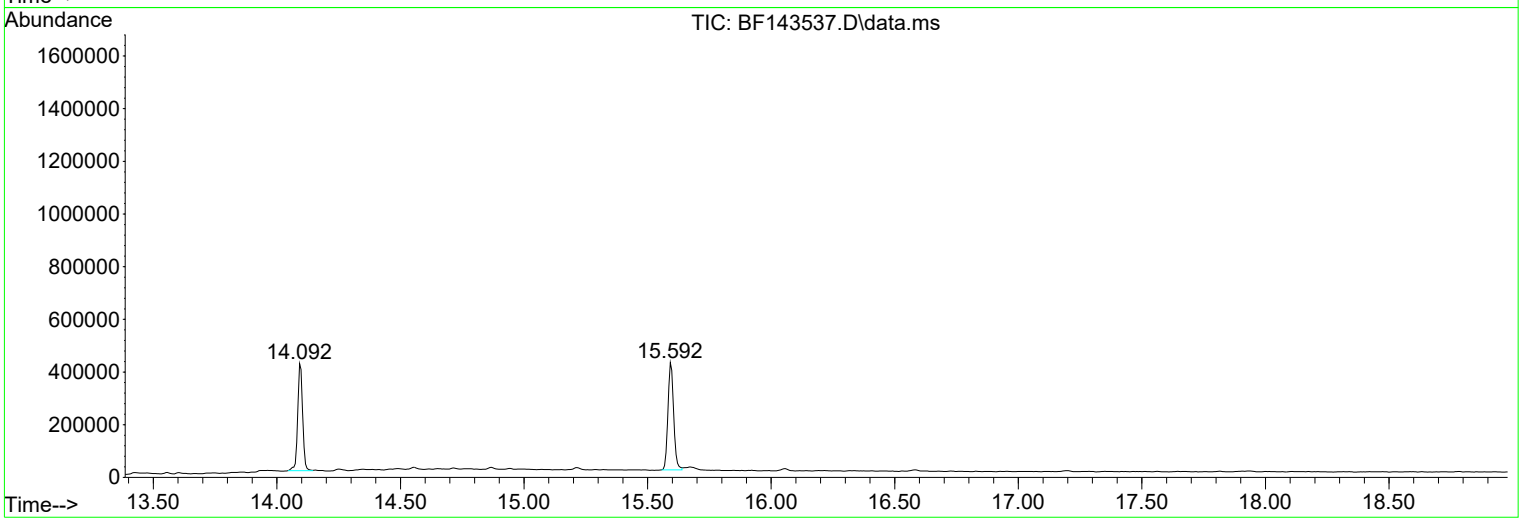
Instrument :
BNA_F
ClientSampleId :
17M-E

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.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\BF082125\
Data File : BF143537.D
Acq On : 21 Aug 2025 18:34
Operator : RC/JU
Sample : Q2819-13
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
17M-E

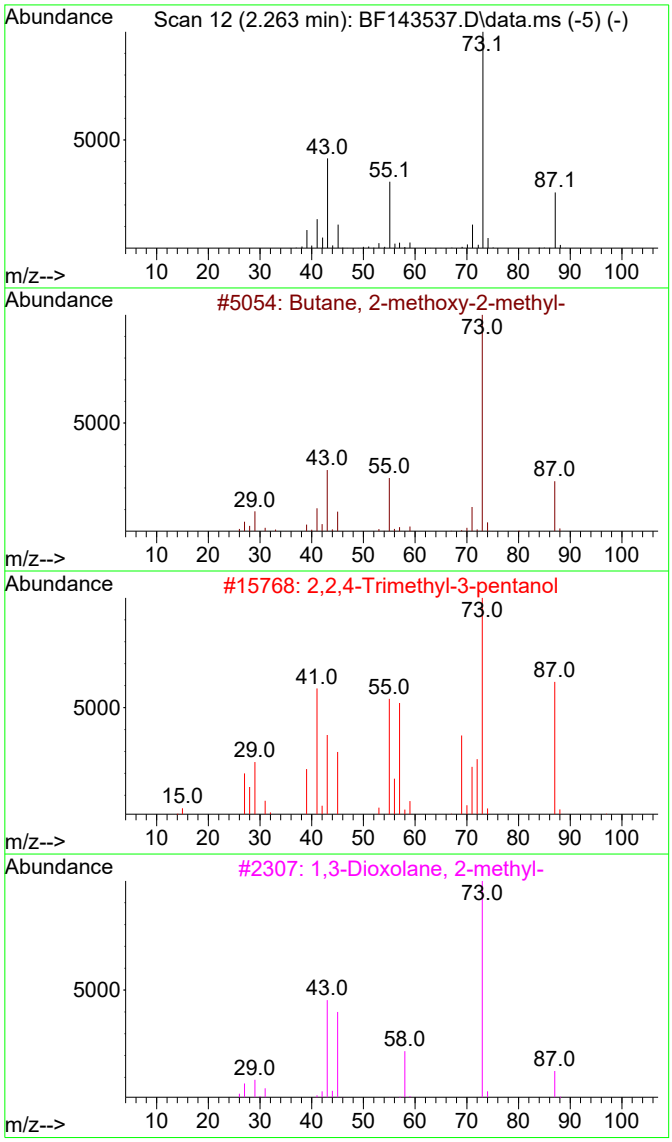
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

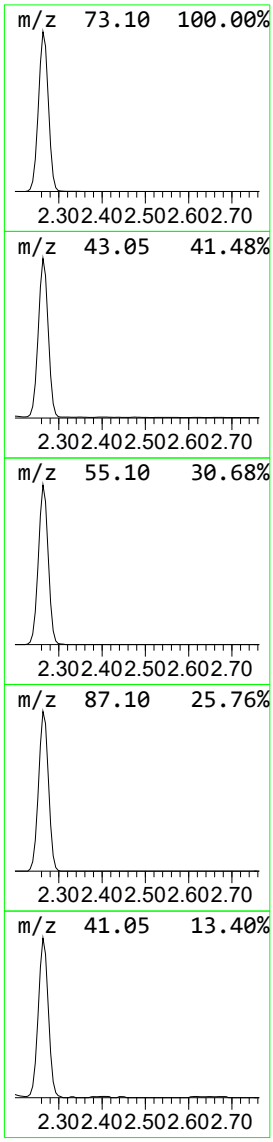
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.263	25.20 ng	816732	1,4-Dichlorobenzene-d4	6.928

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	1,3-Dioxolane, 2-methyl-	88	C4H8O2	000497-26-7	23
4	Acetamide, N-ethyl-	87	C4H9NO	000625-50-3	22
5	Octanal, 7-methoxy-3,7-dimethyl-	186	C11H22O2	003613-30-7	17





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
Data File : BF143537.D
Acq On : 21 Aug 2025 18:34
Operator : RC/JU
Sample : Q2819-13
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
17M-E

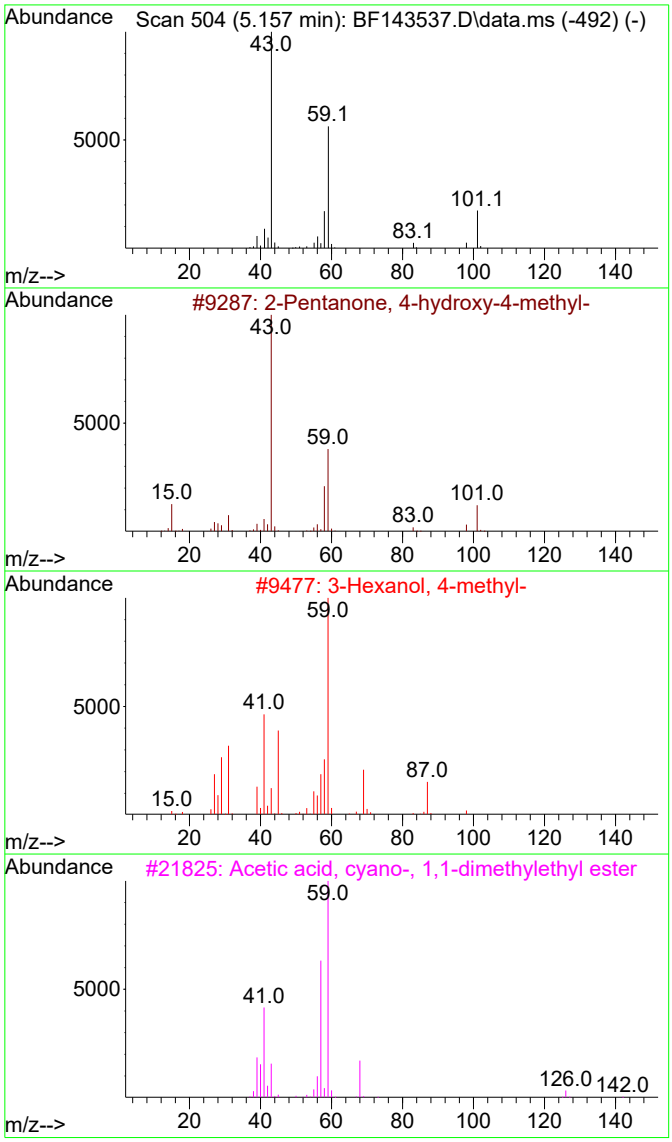
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

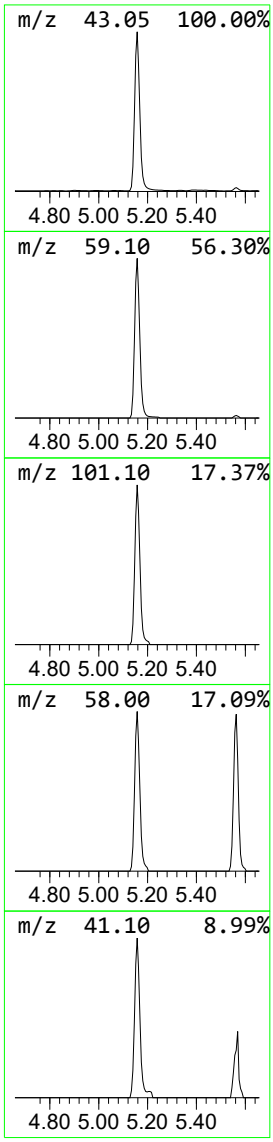
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.157	5.91 ng	191625	1,4-Dichlorobenzene-d4	6.928

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	59
2	3-Hexanol, 4-methyl-	116	C7H16O	000615-29-2	33
3	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	32
4	2-Hexanol, 2-methyl-	116	C7H16O	000625-23-0	28
5	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	12





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
Data File : BF143537.D
Acq On : 21 Aug 2025 18:34
Operator : RC/JU
Sample : Q2819-13
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
17M-E

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

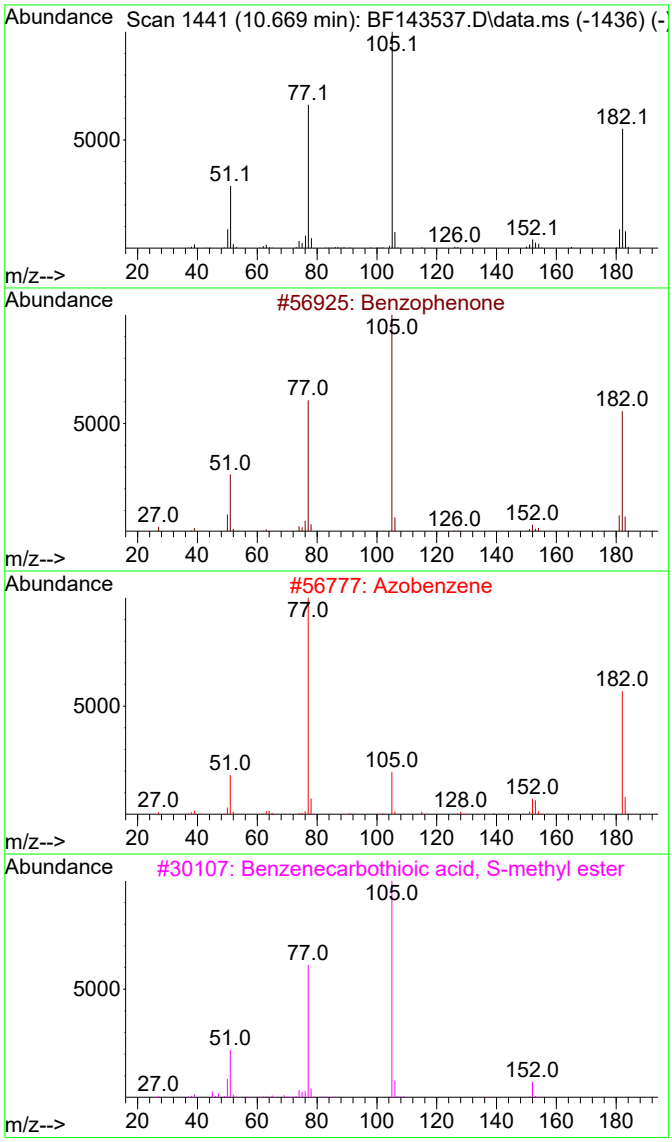
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

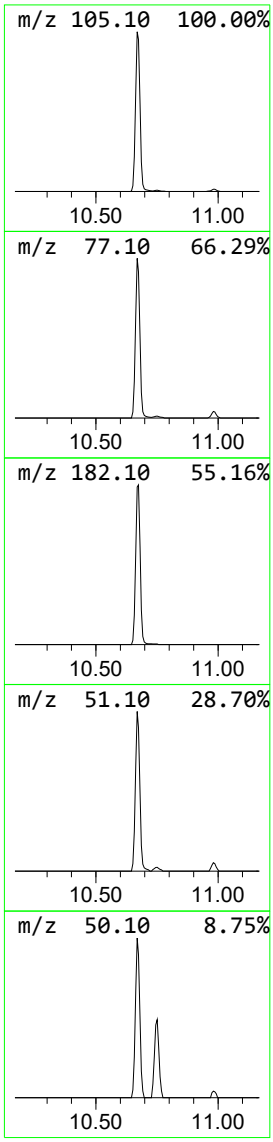
****

Peak Number 3 Benzophenone Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.669	7.12 ng	306282	Acenaphthene-d10	9.963

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	Azobenzene	182	C12H10N2	000103-33-3	59
3	Benzenecarbothioic acid, S-methy...	152	C8H8OS	005925-68-8	49
4	Benzenebutanoic acid, .gamma.-oxo-	178	C10H10O3	002051-95-8	47
5	acetic acid, 2-bromo-, 2-oxo-2-p...	256	C10H9BrO3	1000401-50-0	47





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
Data File : BF143537.D
Acq On : 21 Aug 2025 18:34
Operator : RC/JU
Sample : Q2819-13
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
17M-E

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.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...	2.263	25.2	ng	816732	1	6.928	648134	20.0
2-Pentanone, 4-...	5.157	5.9	ng	191625	1	6.928	648134	20.0
Benzophenone	10.669	7.1	ng	306282	3	9.963	860618	20.0

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Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	17M-W	SDG No.:	Q2819
Lab Sample ID:	Q2819-14	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	85.6
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
BF143505.D	1	08/15/25 08:25	08/21/25 01:27	PB169259

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
100-52-7	Benzaldehyde	310	U	180	310	380	ug/Kg
108-95-2	Phenol	150	U	25.7	150	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	150	U	28.3	150	200	ug/Kg
95-57-8	2-Chlorophenol	150	U	28.4	150	200	ug/Kg
95-48-7	2-Methylphenol	150	U	34.8	150	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	150	U	43.7	150	200	ug/Kg
98-86-2	Acetophenone	150	U	34.4	150	200	ug/Kg
65794-96-9	3+4-Methylphenols	310	U	47.9	310	380	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	93.2	U	55.2	93.2	93.2	ug/Kg
67-72-1	Hexachloroethane	150	U	20.5	150	200	ug/Kg
98-95-3	Nitrobenzene	150	U	21.3	150	200	ug/Kg
78-59-1	Isophorone	150	U	38.2	150	200	ug/Kg
88-75-5	2-Nitrophenol	150	U	67.8	150	200	ug/Kg
105-67-9	2,4-Dimethylphenol	150	U	75.5	150	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	150	U	35.9	150	200	ug/Kg
120-83-2	2,4-Dichlorophenol	150	U	33.0	150	200	ug/Kg
91-20-3	Naphthalene	150	U	26.4	150	200	ug/Kg
106-47-8	4-Chloroaniline	150	U	41.2	150	200	ug/Kg
87-68-3	Hexachlorobutadiene	150	U	29.5	150	200	ug/Kg
105-60-2	Caprolactam	310	U	60.7	310	380	ug/Kg
59-50-7	4-Chloro-3-methylphenol	150	U	33.4	150	200	ug/Kg
91-57-6	2-Methylnaphthalene	150	U	29.8	150	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	310	U	140	310	380	ug/Kg
88-06-2	2,4,6-Trichlorophenol	150	U	23.1	150	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	150	U	33.9	150	200	ug/Kg
92-52-4	1,1-Biphenyl	150	U	25.4	150	200	ug/Kg
91-58-7	2-Chloronaphthalene	150	U	26.2	150	200	ug/Kg
88-74-4	2-Nitroaniline	150	U	56.0	150	200	ug/Kg
131-11-3	Dimethylphthalate	150	U	31.6	150	200	ug/Kg

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Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	17M-W	SDG No.:	Q2819
Lab Sample ID:	Q2819-14	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	85.6
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
BF143505.D	1	08/15/25 08:25	08/21/25 01:27	PB169259

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	150	U	33.7	150	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	150	U	39.1	150	200	ug/Kg
99-09-2	3-Nitroaniline	150	U	53.6	150	200	ug/Kg
83-32-9	Acenaphthene	150	U	24.8	150	200	ug/Kg
51-28-5	2,4-Dinitrophenol	310	U	270	310	380	ug/Kg
100-02-7	4-Nitrophenol	310	U	120	310	380	ug/Kg
132-64-9	Dibenzofuran	150	U	26.4	150	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	150	U	58.4	150	200	ug/Kg
84-66-2	Diethylphthalate	150	U	33.0	150	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	150	U	31.1	150	200	ug/Kg
86-73-7	Fluorene	150	U	29.5	150	200	ug/Kg
100-01-6	4-Nitroaniline	150	U	74.8	150	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	310	U	120	310	380	ug/Kg
86-30-6	n-Nitrosodiphenylamine	150	U	38.3	150	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	150	U	32.4	150	200	ug/Kg
118-74-1	Hexachlorobenzene	150	U	29.5	150	200	ug/Kg
1912-24-9	Atrazine	150	U	39.6	150	200	ug/Kg
87-86-5	Pentachlorophenol	310	U	59.8	310	380	ug/Kg
85-01-8	Phenanthrene	150	U	24.4	150	200	ug/Kg
120-12-7	Anthracene	150	U	38.8	150	200	ug/Kg
86-74-8	Carbazole	150	U	36.4	150	200	ug/Kg
84-74-2	Di-n-butylphthalate	150	U	55.8	150	200	ug/Kg
206-44-0	Fluoranthene	150	U	35.0	150	200	ug/Kg
129-00-0	Pyrene	150	U	41.9	150	200	ug/Kg
85-68-7	Butylbenzylphthalate	150	U	83.2	150	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	310	U	42.8	310	380	ug/Kg
56-55-3	Benzo(a)anthracene	150	U	26.8	150	200	ug/Kg
218-01-9	Chrysene	150	U	23.2	150	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	150	U	69.0	150	200	ug/Kg
117-84-0	Di-n-octyl phthalate	310	U	100	310	380	ug/Kg
205-99-2	Benzo(b)fluoranthene	150	U	22.1	150	200	ug/Kg

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Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	17M-W	SDG No.:	Q2819
Lab Sample ID:	Q2819-14	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	85.6
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
BF143505.D	1	08/15/25 08:25	08/21/25 01:27	PB169259

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	150	U	26.1	150	200	ug/Kg
50-32-8	Benzo(a)pyrene	150	U	34.4	150	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	150	U	33.9	150	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	150	U	31.9	150	200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	150	U	29.9	150	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	150	U	29.8	150	200	ug/Kg
123-91-1	1,4-Dioxane	150	U	52.7	150	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	150	U	31.9	150	200	ug/Kg
SURROGATES							
367-12-4	2-Fluorophenol	77.1		35 - 115		51%	SPK: 150
13127-88-3	Phenol-d6	79.5		34 - 127		53%	SPK: 150
4165-60-0	Nitrobenzene-d5	56.4		37 - 122		56%	SPK: 100
321-60-8	2-Fluorobiphenyl	54.4		44 - 115		54%	SPK: 100
118-79-6	2,4,6-Tribromophenol	79.8		39 - 132		53%	SPK: 150
1718-51-0	Terphenyl-d14	50.9	*	54 - 127		51%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	142000	6.928				
1146-65-2	Naphthalene-d8	527000	8.204				
15067-26-2	Acenaphthene-d10	286000	9.963				
1517-22-2	Phenanthrene-d10	446000	11.451				
1719-03-5	Chrysene-d12	240000	14.092				
1520-96-3	Perylene-d12	276000	15.592				
TENTATIVE IDENTIFIED COMPOUNDS							
000994-05-8	Butane, 2-methoxy-2-methyl-	930	J			2.27	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	220	AB			5.16	ug/Kg
000119-61-9	Benzophenone	300	J			10.7	ug/Kg

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Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	17M-W	SDG No.:	Q2819
Lab Sample ID:	Q2819-14	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	85.6
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
BF143505.D	1	08/15/25 08:25	08/21/25 01:27	PB169259

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	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\BF082025\
Data File : BF143505.D
Acq On : 21 Aug 2025 01:27
Operator : RC/JU
Sample : Q2819-14
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
17M-W

Quant Time: Aug 21 02:09:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 20 15:07:46 2025
Response via : Initial Calibration

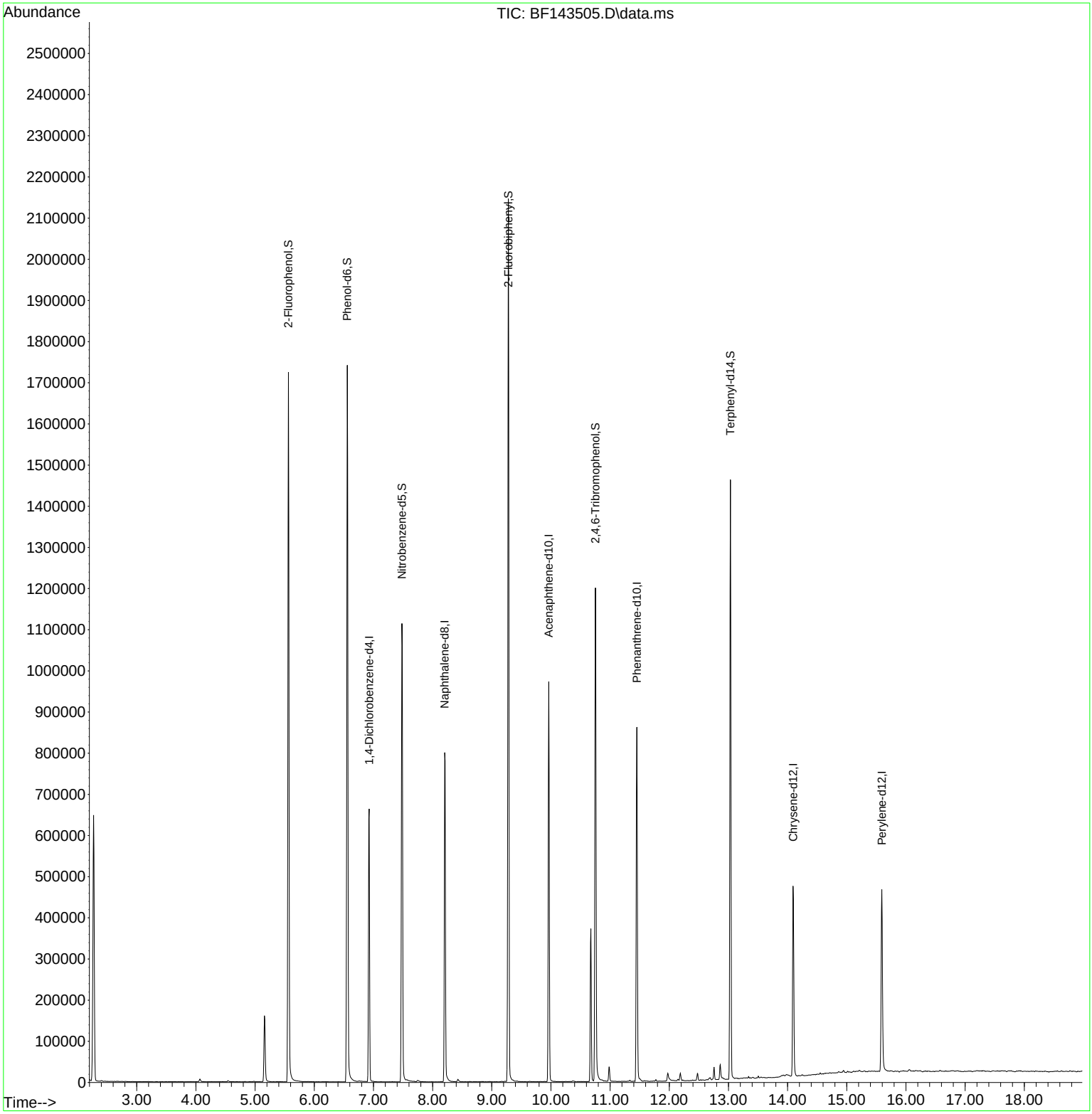
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.928	152	142193	20.000	ng	0.00
21) Naphthalene-d8	8.204	136	527282	20.000	ng	0.00
39) Acenaphthene-d10	9.963	164	285511	20.000	ng	0.00
64) Phenanthrene-d10	11.451	188	446327	20.000	ng	0.00
76) Chrysene-d12	14.092	240	240120	20.000	ng	-0.01
86) Perylene-d12	15.592	264	275939	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.563	112	628153	77.139	ng	0.00
7) Phenol-d6	6.557	99	798950	79.479	ng	-0.02
23) Nitrobenzene-d5	7.481	82	509751	56.415	ng	-0.02
42) 2,4,6-Tribromophenol	10.751	330	211995	79.767	ng	-0.01
45) 2-Fluorobiphenyl	9.280	172	939057	54.357	ng	0.00
79) Terphenyl-d14	13.033	244	700158	50.883	ng	0.00
Target Compounds						Qvalue

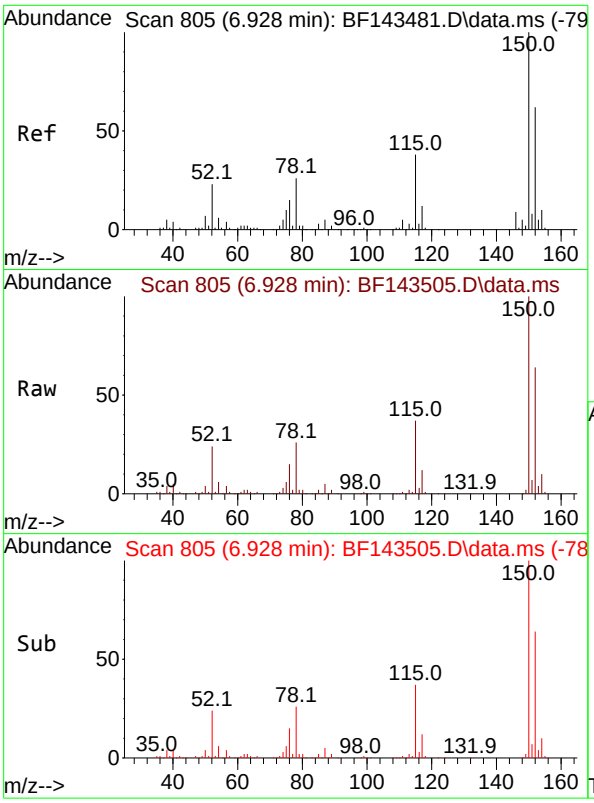
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082025\
Data File : BF143505.D
Acq On : 21 Aug 2025 01:27
Operator : RC/JU
Sample : Q2819-14
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
17M-W

Quant Time: Aug 21 02:09:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 20 15:07:46 2025
Response via : Initial Calibration



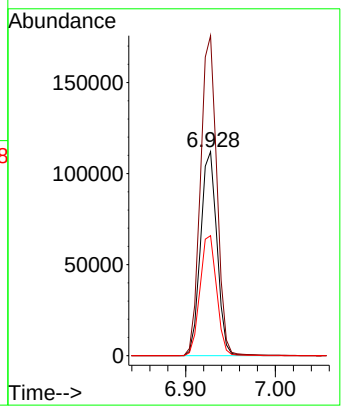


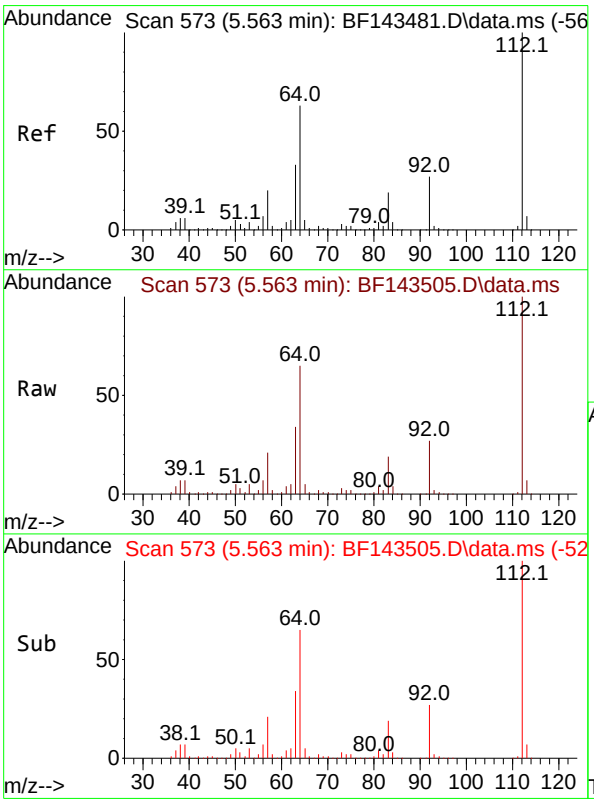
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.928 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF143505.D
Acq: 21 Aug 2025 01:27

Instrument :
BNA_F
ClientSampleId :
17M-W

Tgt Ion:152 Resp: 142193

Ion	Ratio	Lower	Upper
152	100		
150	156.9	128.9	193.3
115	58.8	49.2	73.8

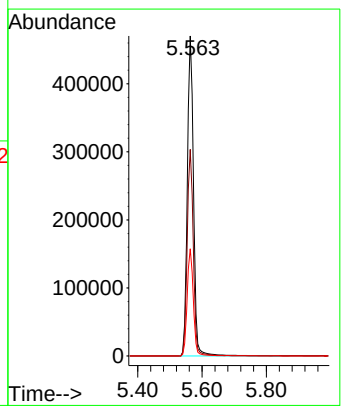


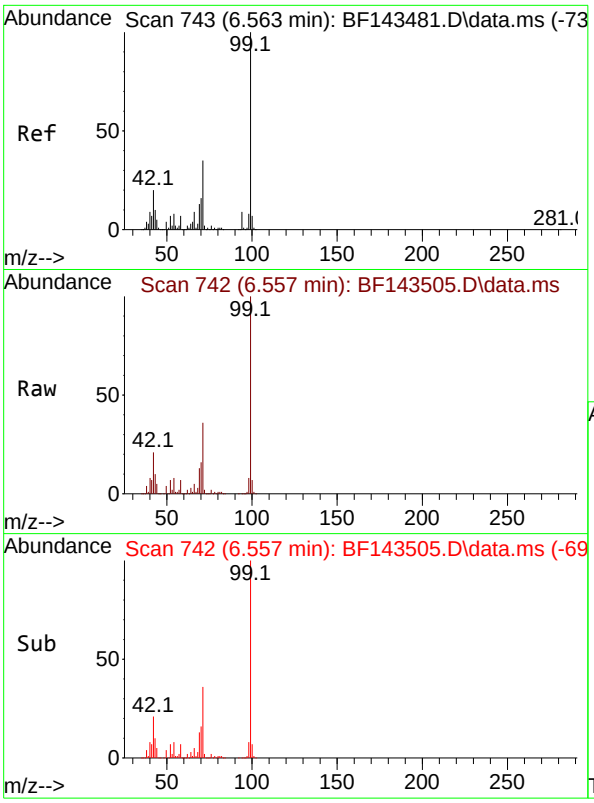


#5
2-Fluorophenol
Concen: 77.139 ng
RT: 5.563 min Scan# 573
Delta R.T. -0.000 min
Lab File: BF143505.D
Acq: 21 Aug 2025 01:27

Tgt Ion:112 Resp: 628153

Ion	Ratio	Lower	Upper
112	100		
64	64.6	50.4	75.6
63	33.5	26.4	39.6



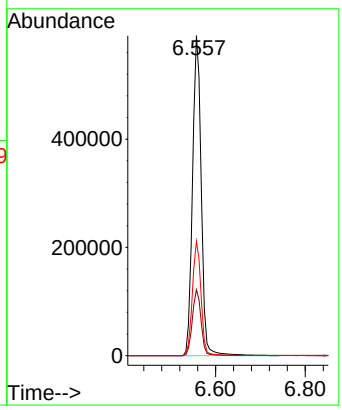


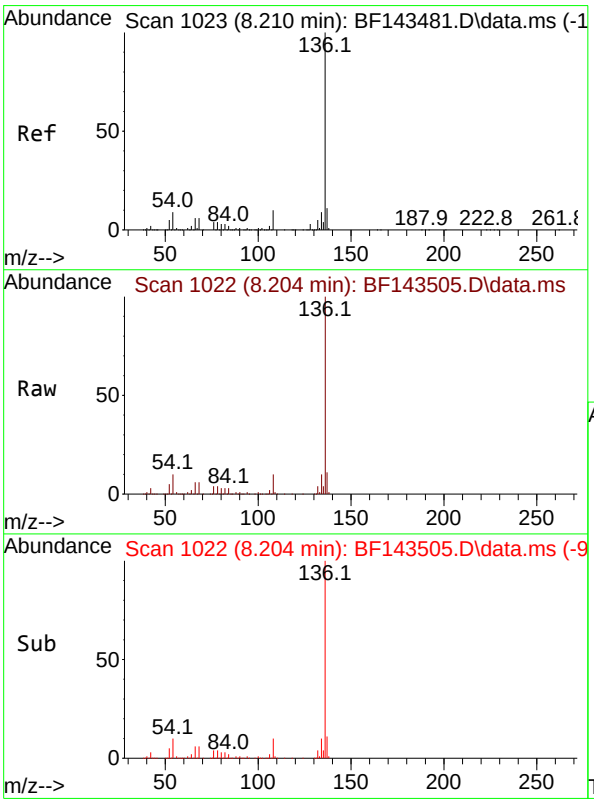
#7
Phenol-d6
Concen: 79.479 ng
RT: 6.557 min Scan# 7
Delta R.T. -0.018 min
Lab File: BF143505.D
Acq: 21 Aug 2025 01:27

Instrument :
BNA_F
ClientSampleId :
17M-W

Tgt Ion: 99 Resp: 798950

Ion	Ratio	Lower	Upper
99	100		
42	20.6	16.3	24.5
71	35.8	28.2	42.2

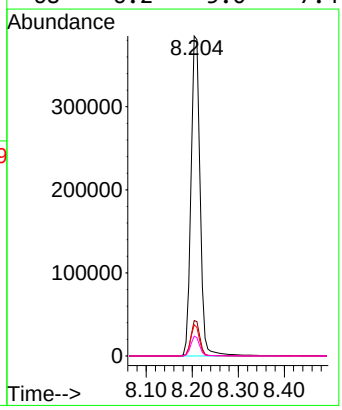


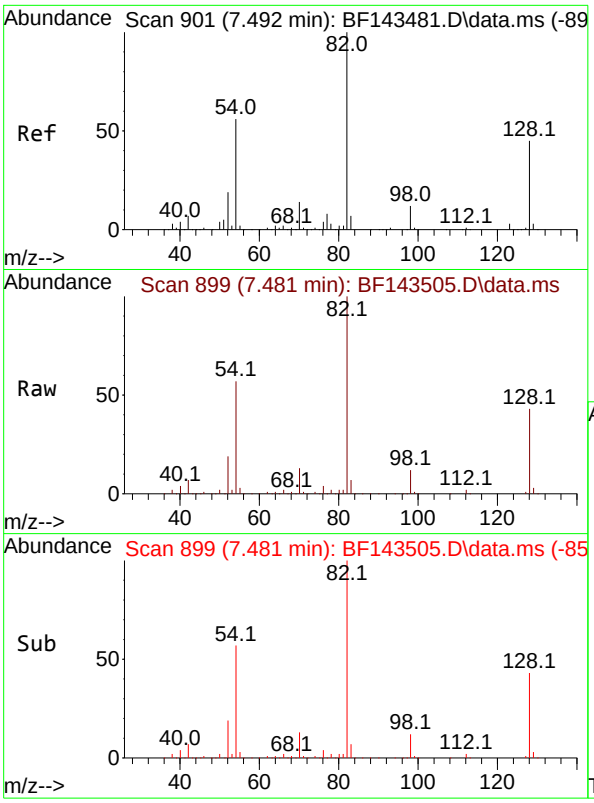


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.204 min Scan# 1022
Delta R.T. -0.006 min
Lab File: BF143505.D
Acq: 21 Aug 2025 01:27

Tgt Ion:136 Resp: 527282

Ion	Ratio	Lower	Upper
136	100		
137	11.1	9.0	13.4
54	9.8	7.4	11.2
68	6.2	5.0	7.4



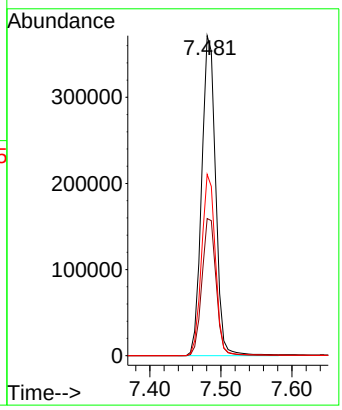


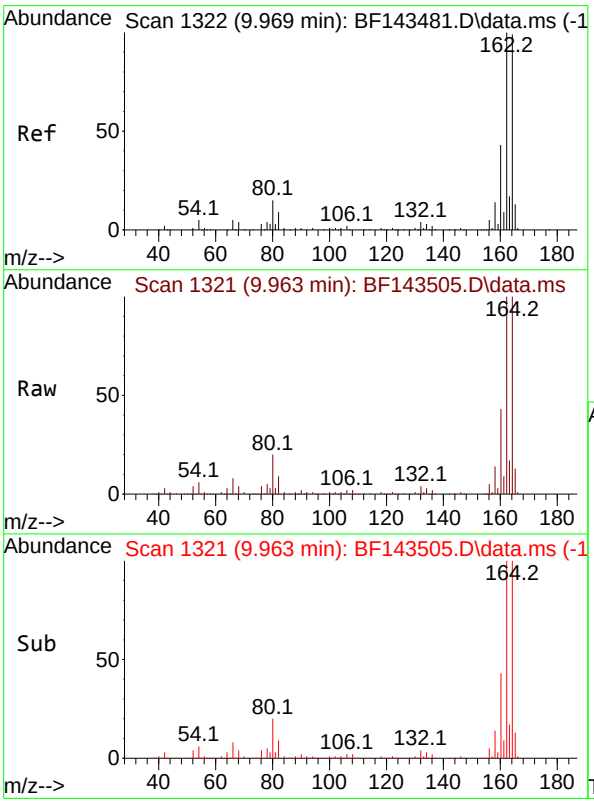
#23
Nitrobenzene-d5
Concen: 56.415 ng
RT: 7.481 min Scan# 8
Delta R.T. -0.018 min
Lab File: BF143505.D
Acq: 21 Aug 2025 01:27

Instrument :
BNA_F
ClientSampleId :
17M-W

Tgt Ion: 82 Resp: 509751

Ion	Ratio	Lower	Upper
82	100		
128	42.9	35.5	53.3
54	56.7	44.3	66.5

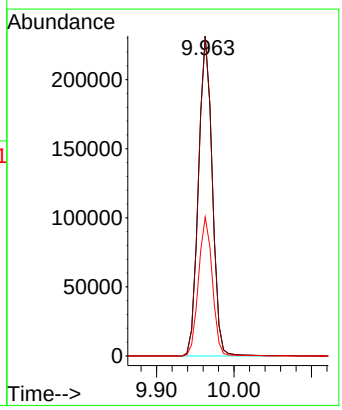


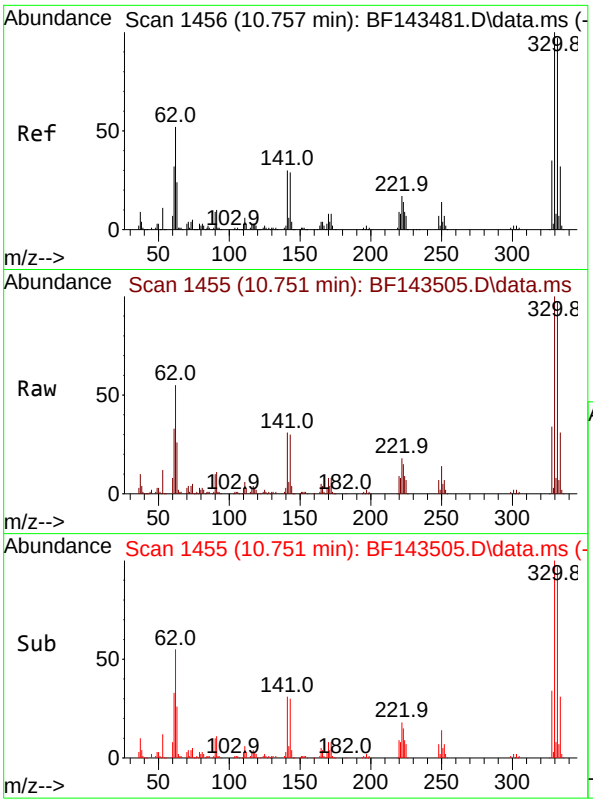


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.963 min Scan# 1321
Delta R.T. -0.006 min
Lab File: BF143505.D
Acq: 21 Aug 2025 01:27

Tgt Ion:164 Resp: 285511

Ion	Ratio	Lower	Upper
164	100		
162	99.8	80.5	120.7
160	43.4	34.3	51.5



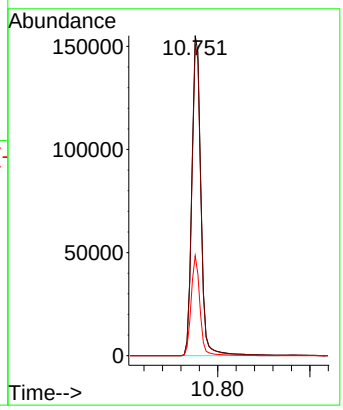


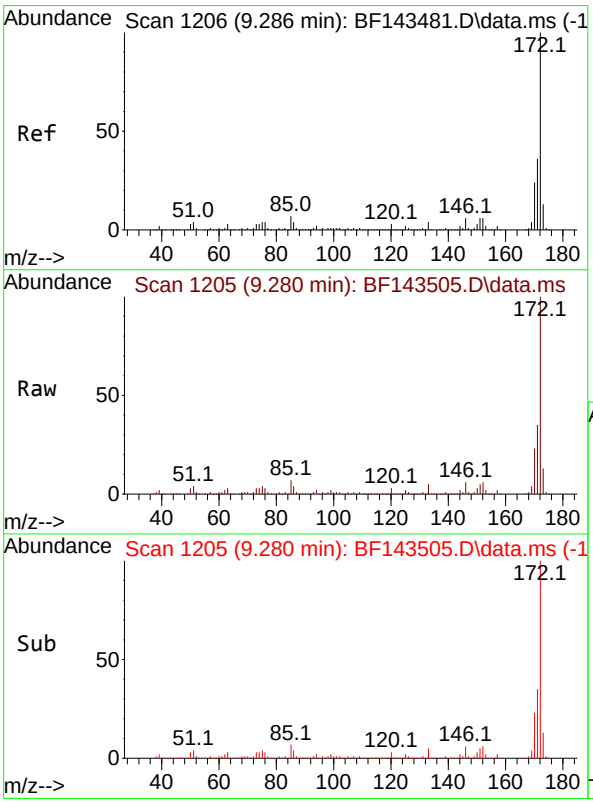
#42
2,4,6-Tribromophenol
Concen: 79.767 ng
RT: 10.751 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF143505.D
Acq: 21 Aug 2025 01:27

Instrument :
BNA_F
ClientSampleId :
17M-W

Tgt Ion:330 Resp: 211995

Ion	Ratio	Lower	Upper
330	100		
332	97.1	78.0	117.0
141	30.4	23.7	35.5

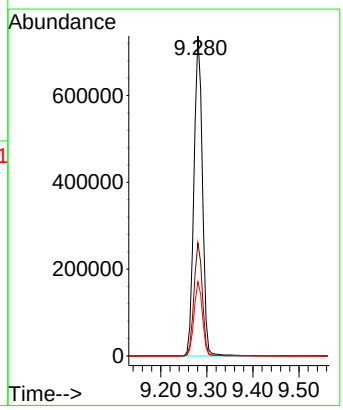


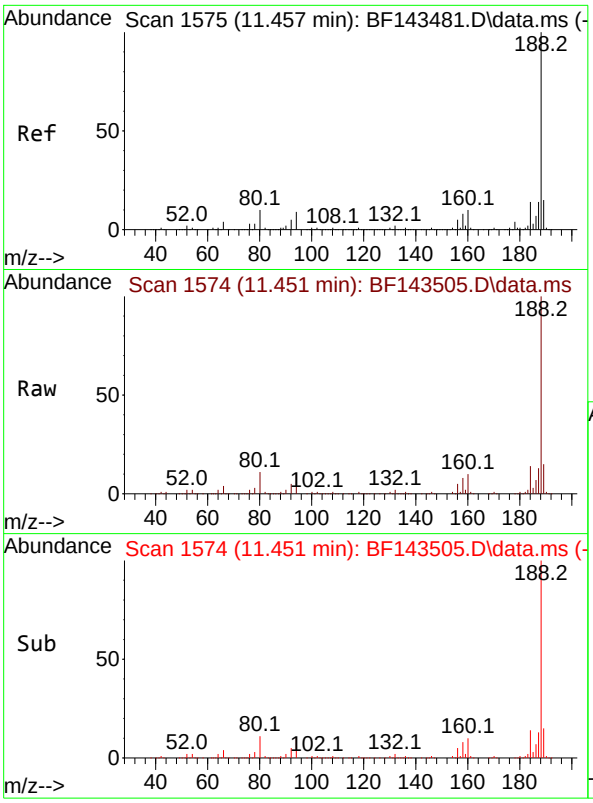


#45
2-Fluorobiphenyl
Concen: 54.357 ng
RT: 9.280 min Scan# 1205
Delta R.T. -0.006 min
Lab File: BF143505.D
Acq: 21 Aug 2025 01:27

Tgt Ion:172 Resp: 939057

Ion	Ratio	Lower	Upper
172	100		
171	35.4	28.8	43.2
170	23.2	18.8	28.2



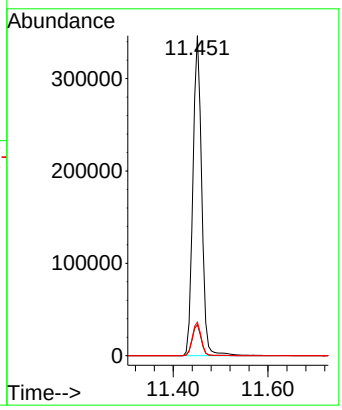


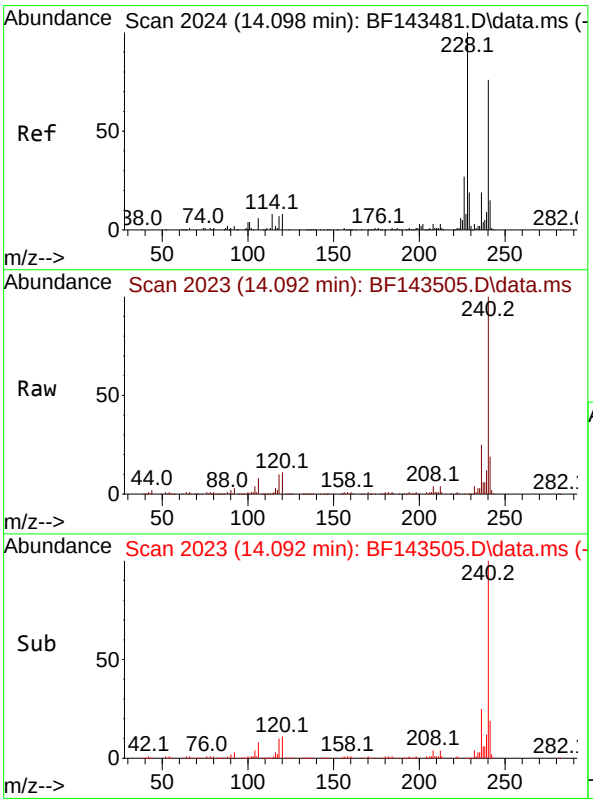
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.451 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143505.D
Acq: 21 Aug 2025 01:27

Instrument :
BNA_F
ClientSampleId :
17M-W

Tgt Ion:188 Resp: 446327

Ion	Ratio	Lower	Upper
188	100		
94	9.7	7.4	11.2
80	10.5	8.2	12.4

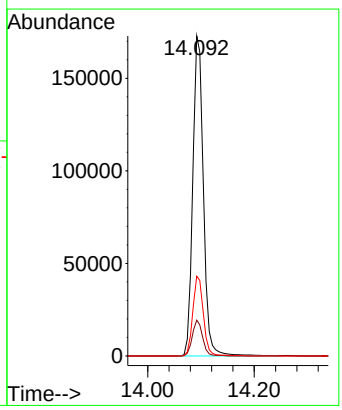


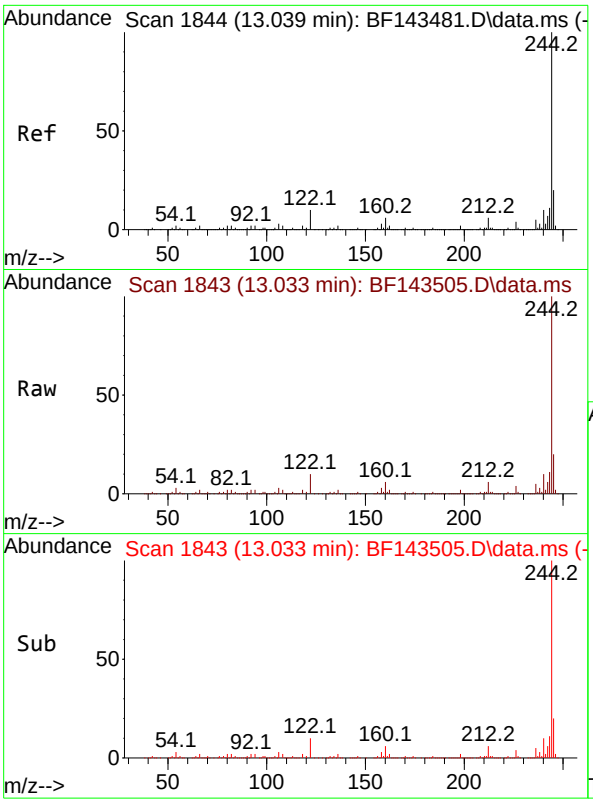


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.092 min Scan# 2023
Delta R.T. -0.012 min
Lab File: BF143505.D
Acq: 21 Aug 2025 01:27

Tgt Ion:240 Resp: 240120

Ion	Ratio	Lower	Upper
240	100		
120	11.2	8.6	12.8
236	24.9	20.4	30.6



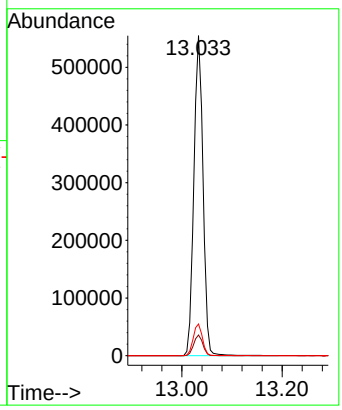


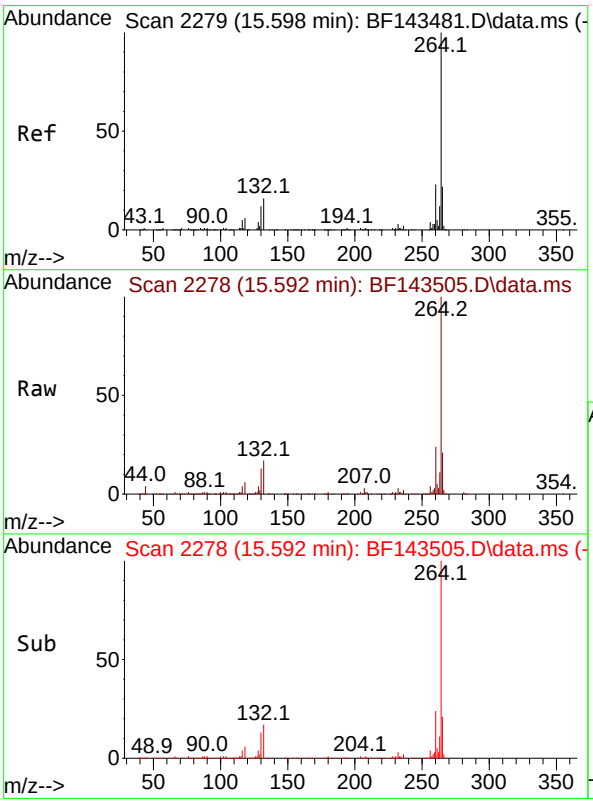
#79
Terphenyl-d14
Concen: 50.883 ng
RT: 13.033 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143505.D
Acq: 21 Aug 2025 01:27

Instrument :
BNA_F
ClientSampleId :
17M-W

Tgt Ion:244 Resp: 700158

Ion	Ratio	Lower	Upper
244	100		
212	6.5	5.2	7.8
122	9.9	7.9	11.9

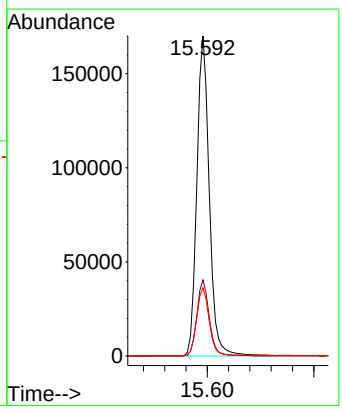




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.592 min Scan# 2278
Delta R.T. -0.006 min
Lab File: BF143505.D
Acq: 21 Aug 2025 01:27

Tgt Ion:264 Resp: 275939

Ion	Ratio	Lower	Upper
264	100		
260	23.8	18.7	28.1
265	21.3	17.6	26.4



Sample Results: **BF143505.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082025\
Data File : BF143505.D
Acq On : 21 Aug 2025 01:27
Operator : RC/JU
Sample : Q2819-14
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
17M-W

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-BF082025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF143505.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.269	6	13	25	rVB	646076	1012393	37.67%	5.132%
2	5.157	498	504	514	rBV	160476	242603	9.03%	1.230%
3	5.563	567	573	597	rBV	1724280	2285105	85.03%	11.583%
4	6.557	736	742	770	rBV	1740922	2360909	87.85%	11.968%
5	6.928	799	805	810	rBV	662434	844750	31.43%	4.282%
6	7.481	893	899	910	rBV	1113790	1523194	56.68%	7.721%
7	8.204	1017	1022	1041	rBV	799761	1079627	40.17%	5.473%
8	9.280	1199	1205	1210	rBV	2144513	2687368	100.00%	13.623%
9	9.963	1316	1321	1336	rVB	971360	1193374	44.41%	6.049%
10	10.675	1437	1442	1450	rBV	370982	463237	17.24%	2.348%
11	10.751	1450	1455	1471	rVV	1197680	1576968	58.68%	7.994%
12	10.986	1489	1495	1502	rVB	34505	47011	1.75%	0.238%
13	11.451	1569	1574	1592	rBV	860534	1107196	41.20%	5.612%
14	11.974	1658	1663	1678	rBV3	18466	37265	1.39%	0.189%
15	12.757	1789	1796	1802	rBV	31123	37599	1.40%	0.191%
16	12.863	1809	1814	1819	rBV3	36296	52003	1.94%	0.264%
17	13.033	1838	1843	1855	rBV	1455974	1833061	68.21%	9.292%
18	14.092	2018	2023	2037	rVB	461461	626429	23.31%	3.175%
19	15.592	2272	2278	2292	rBV	441455	717287	26.69%	3.636%

Sum of corrected areas: 19727379

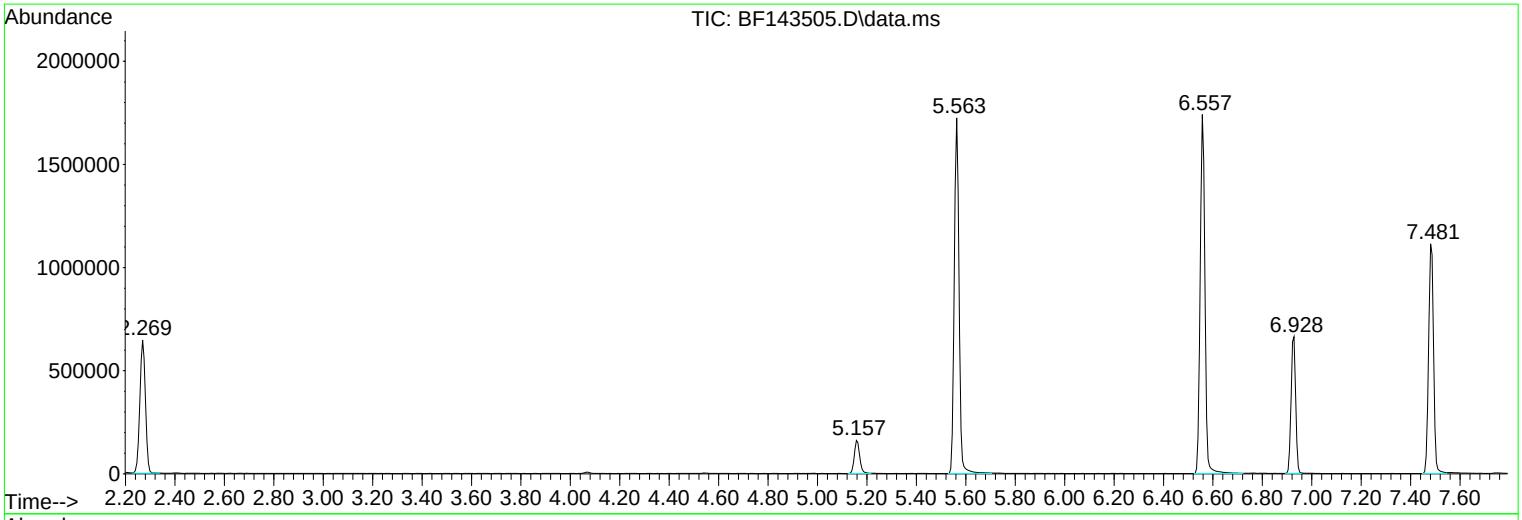
Sample Results: **BF143505.D**

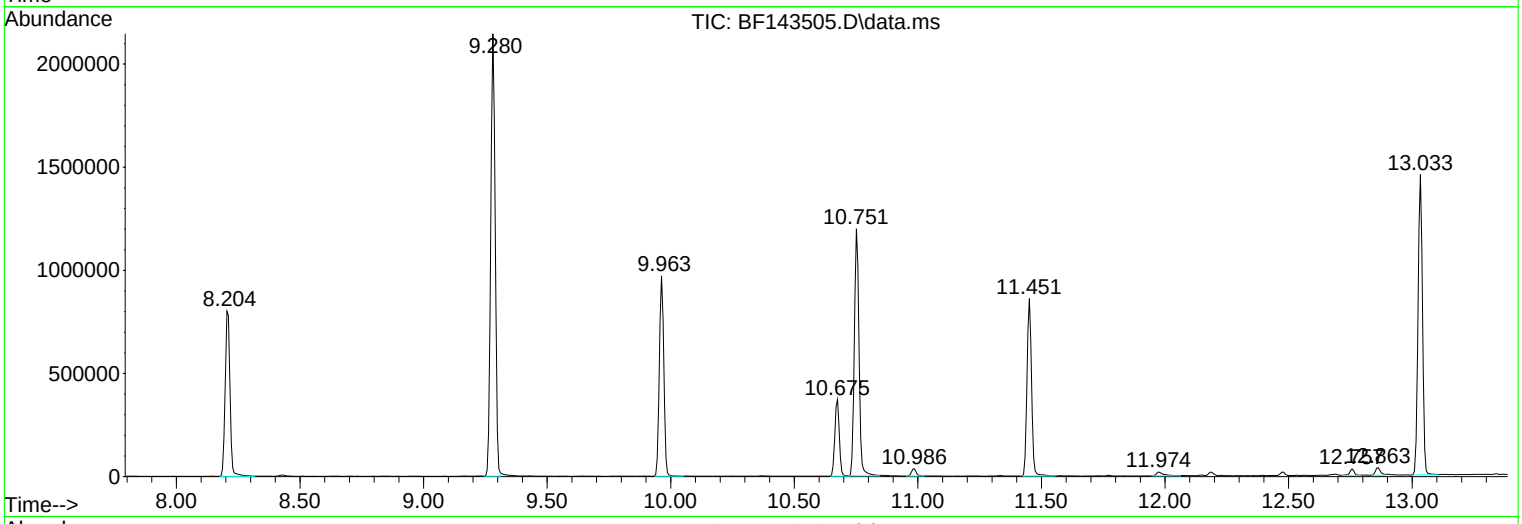
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082025\
Data File : BF143505.D
Acq On : 21 Aug 2025 01:27
Operator : RC/JU
Sample : Q2819-14
Misc :
ALS Vial : 29 Sample Multiplier: 1

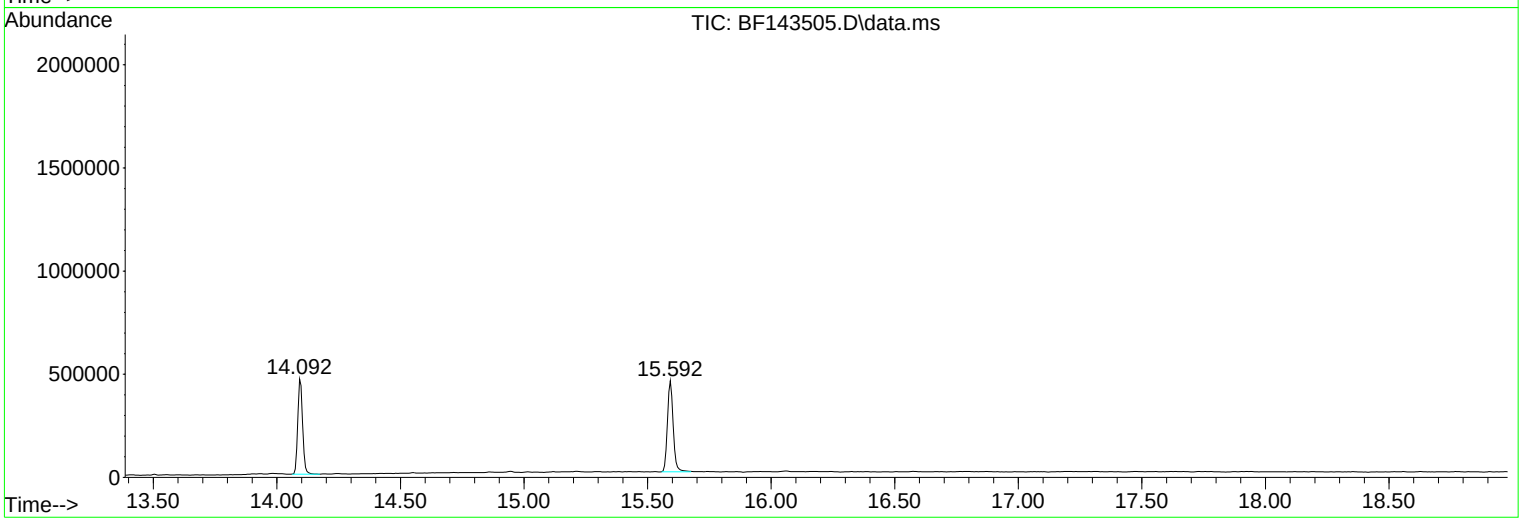
Instrument :
BNA_F
ClientSampleId :
17M-W

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.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\BF082025\
Data File : BF143505.D
Acq On : 21 Aug 2025 01:27
Operator : RC/JU
Sample : Q2819-14
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
17M-W

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

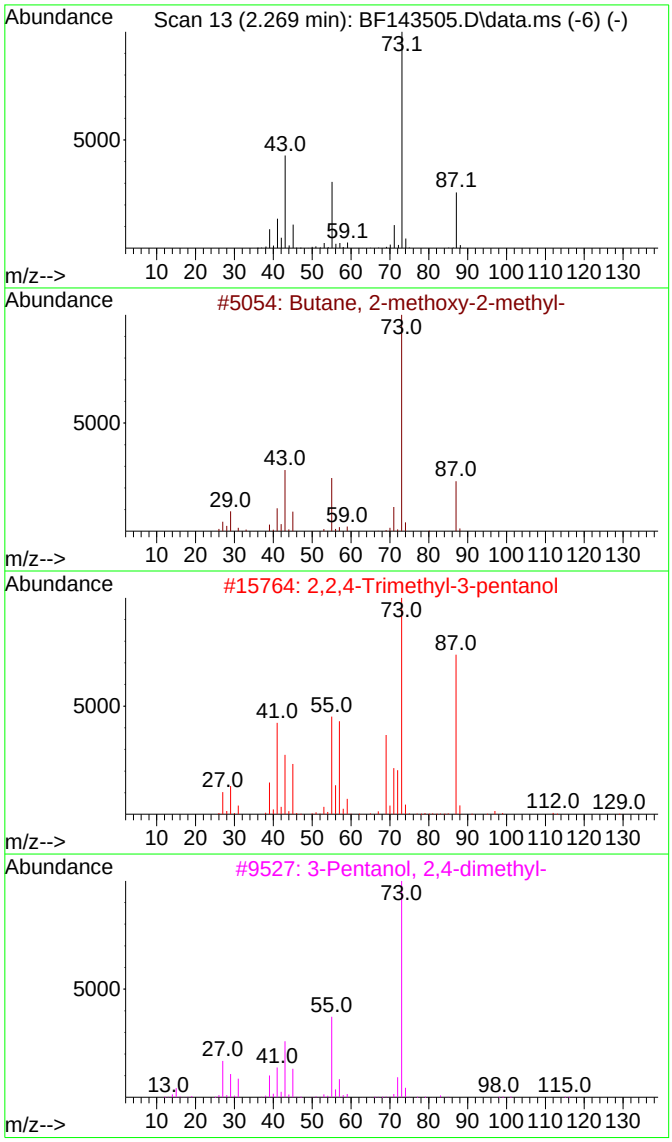
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

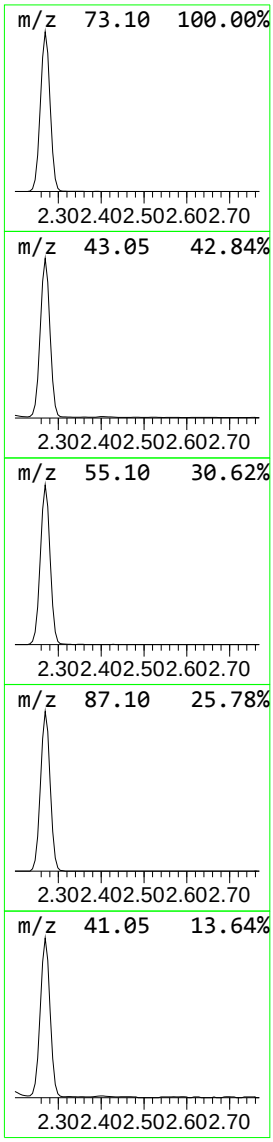
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.269	23.97 ng	1012390	1,4-Dichlorobenzene-d4	6.928

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, 2,4-dimethyl-	116	C7H16O	000600-36-2	37
4	1,3-Dioxolane, 2-methyl-	88	C4H8O2	000497-26-7	23
5	Octanal, 7-methoxy-3,7-dimethyl-	186	C11H22O2	003613-30-7	17





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082025\
Data File : BF143505.D
Acq On : 21 Aug 2025 01:27
Operator : RC/JU
Sample : Q2819-14
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
17M-W

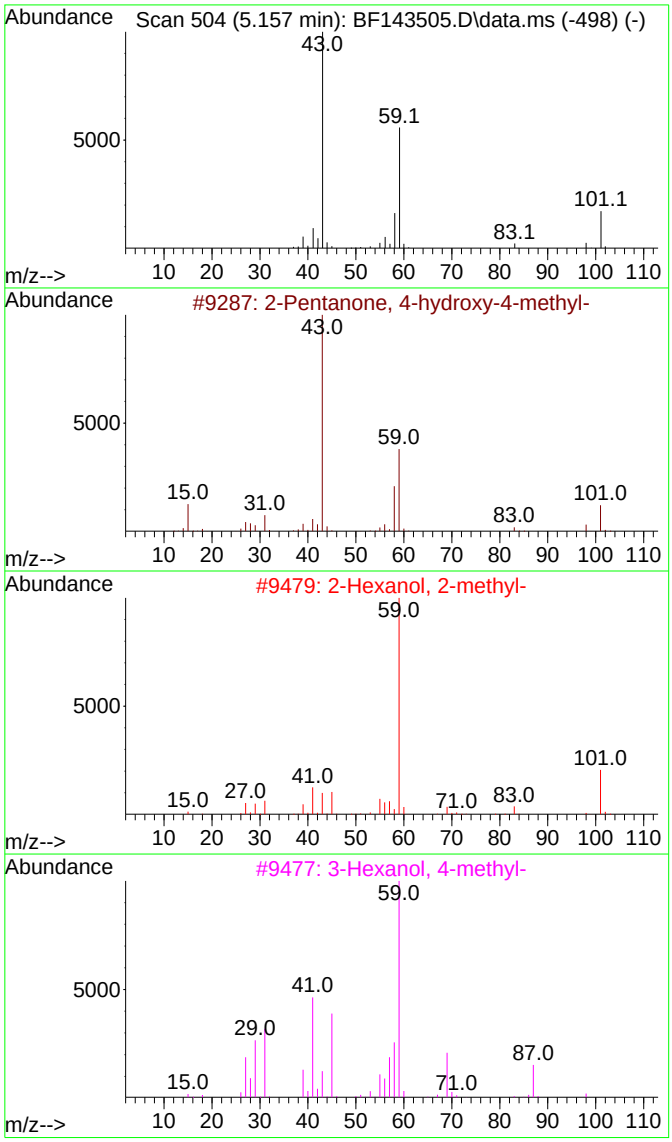
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

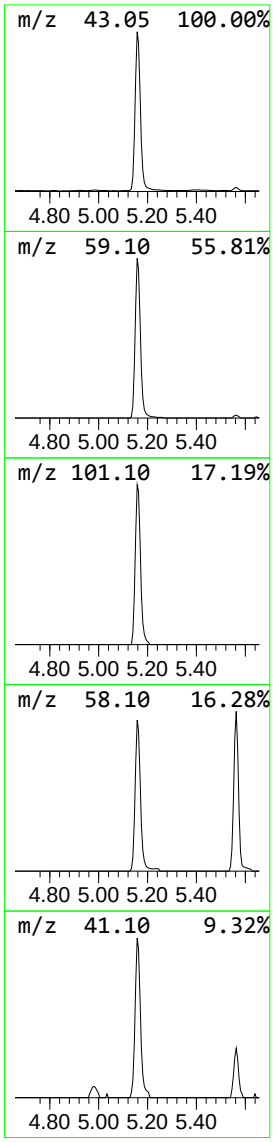
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.157	5.74 ng	242603	1,4-Dichlorobenzene-d4	6.928

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	59
2	2-Hexanol, 2-methyl-	116	C7H16O	000625-23-0	33
3	3-Hexanol, 4-methyl-	116	C7H16O	000615-29-2	33
4	Acetic acid, 1,1-dimethylethyl e...	116	C6H12O2	000540-88-5	25
5	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	23





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082025\
Data File : BF143505.D
Acq On : 21 Aug 2025 01:27
Operator : RC/JU
Sample : Q2819-14
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
17M-W

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

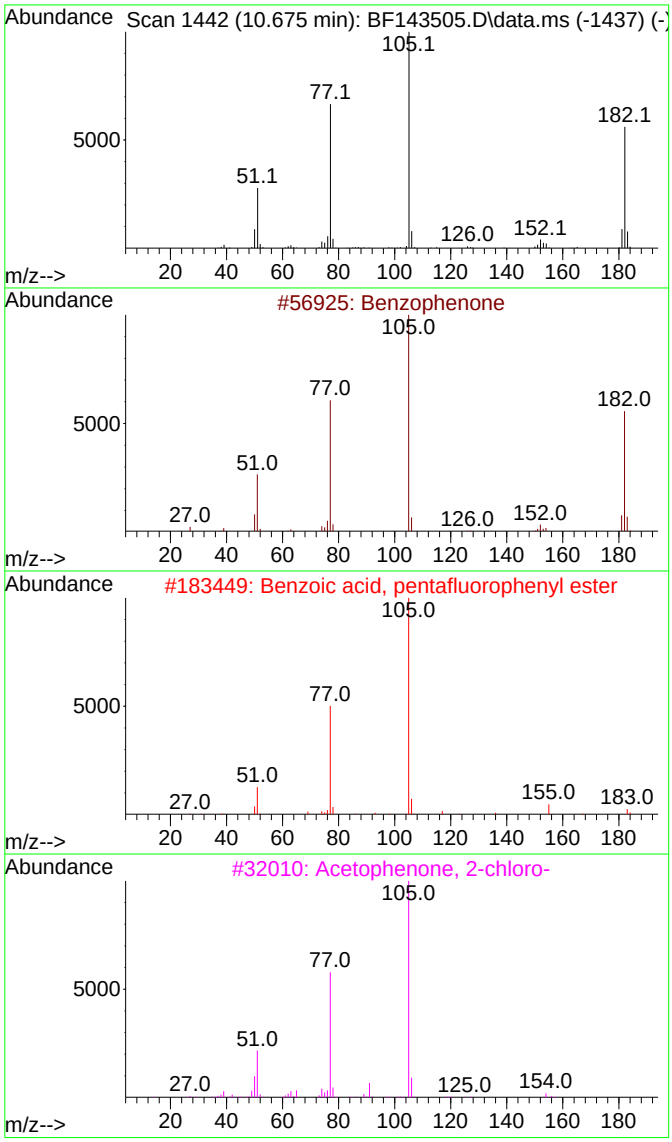
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

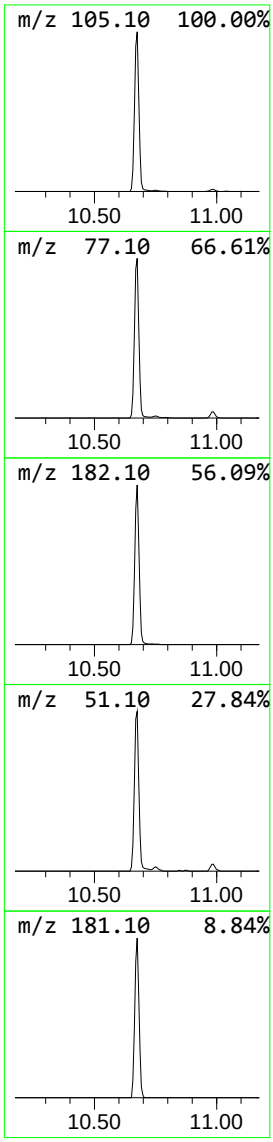
****

Peak Number 3 Benzophenone Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.675	7.76 ng	463237	Acenaphthene-d10	9.963

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	Benzoic acid, pentafluorophenyl ...	288	C13H5F5O2	1000360-67-9	50
3	Acetophenone, 2-chloro-	154	C8H7ClO	000532-27-4	49
4	Disulfide, dibenzoyl	274	C14H10O2S2	000644-32-6	47
5	1-Propanone, 2-bromo-1-phenyl-	212	C9H9BrO	002114-00-3	47





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082025\
Data File : BF143505.D
Acq On : 21 Aug 2025 01:27
Operator : RC/JU
Sample : Q2819-14
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
17M-W

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.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...	2.269	24.0	ng	1012390	1	6.928	844750	20.0
2-Pentanone, 4-...	5.157	5.7	ng	242603	1	6.928	844750	20.0
Benzophenone	10.675	7.8	ng	463237	3	9.963	1193370	20.0

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	17M-N	SDG No.:	Q2819
Lab Sample ID:	Q2819-15	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	83.3
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143506.D	1	08/15/25 08:25	08/21/25 01:56	PB169259

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
100-52-7	Benzaldehyde	320	U	190	320	400	ug/Kg
108-95-2	Phenol	160	U	26.5	160	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	160	U	29.1	160	200	ug/Kg
95-57-8	2-Chlorophenol	160	U	29.2	160	200	ug/Kg
95-48-7	2-Methylphenol	160	U	35.8	160	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	160	U	44.9	160	200	ug/Kg
98-86-2	Acetophenone	160	U	35.3	160	200	ug/Kg
65794-96-9	3+4-Methylphenols	320	U	49.2	320	400	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	95.8	U	56.8	95.8	95.8	ug/Kg
67-72-1	Hexachloroethane	160	U	21.1	160	200	ug/Kg
98-95-3	Nitrobenzene	160	U	21.9	160	200	ug/Kg
78-59-1	Isophorone	160	U	39.3	160	200	ug/Kg
88-75-5	2-Nitrophenol	160	U	69.7	160	200	ug/Kg
105-67-9	2,4-Dimethylphenol	160	U	77.6	160	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	160	U	36.9	160	200	ug/Kg
120-83-2	2,4-Dichlorophenol	160	U	33.9	160	200	ug/Kg
91-20-3	Naphthalene	160	U	27.2	160	200	ug/Kg
106-47-8	4-Chloroaniline	160	U	42.4	160	200	ug/Kg
87-68-3	Hexachlorobutadiene	160	U	30.3	160	200	ug/Kg
105-60-2	Caprolactam	320	U	62.4	320	400	ug/Kg
59-50-7	4-Chloro-3-methylphenol	160	U	34.4	160	200	ug/Kg
91-57-6	2-Methylnaphthalene	160	U	30.7	160	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	320	U	140	320	400	ug/Kg
88-06-2	2,4,6-Trichlorophenol	160	U	23.7	160	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	160	U	34.9	160	200	ug/Kg
92-52-4	1,1-Biphenyl	160	U	26.1	160	200	ug/Kg
91-58-7	2-Chloronaphthalene	160	U	27.0	160	200	ug/Kg
88-74-4	2-Nitroaniline	160	U	57.6	160	200	ug/Kg
131-11-3	Dimethylphthalate	160	U	32.5	160	200	ug/Kg

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Fax : 908 789 8922

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	17M-N	SDG No.:	Q2819
Lab Sample ID:	Q2819-15	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	83.3
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143506.D	1	08/15/25 08:25	08/21/25 01:56	PB169259

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	160	U	34.6	160	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	160	U	40.3	160	200	ug/Kg
99-09-2	3-Nitroaniline	160	U	55.1	160	200	ug/Kg
83-32-9	Acenaphthene	160	U	25.5	160	200	ug/Kg
51-28-5	2,4-Dinitrophenol	320	U	270	320	400	ug/Kg
100-02-7	4-Nitrophenol	320	U	130	320	400	ug/Kg
132-64-9	Dibenzofuran	160	U	27.2	160	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	160	U	60.0	160	200	ug/Kg
84-66-2	Diethylphthalate	160	U	33.9	160	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	160	U	32.0	160	200	ug/Kg
86-73-7	Fluorene	160	U	30.3	160	200	ug/Kg
100-01-6	4-Nitroaniline	160	U	76.9	160	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	320	U	120	320	400	ug/Kg
86-30-6	n-Nitrosodiphenylamine	160	U	39.4	160	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	160	U	33.3	160	200	ug/Kg
118-74-1	Hexachlorobenzene	160	U	30.3	160	200	ug/Kg
1912-24-9	Atrazine	160	U	40.7	160	200	ug/Kg
87-86-5	Pentachlorophenol	320	U	61.5	320	400	ug/Kg
85-01-8	Phenanthrene	160	U	25.0	160	200	ug/Kg
120-12-7	Anthracene	160	U	39.9	160	200	ug/Kg
86-74-8	Carbazole	160	U	37.4	160	200	ug/Kg
84-74-2	Di-n-butylphthalate	160	U	57.4	160	200	ug/Kg
206-44-0	Fluoranthene	160	U	35.9	160	200	ug/Kg
129-00-0	Pyrene	160	U	43.1	160	200	ug/Kg
85-68-7	Butylbenzylphthalate	160	U	85.5	160	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	320	U	44.0	320	400	ug/Kg
56-55-3	Benzo(a)anthracene	160	U	27.6	160	200	ug/Kg
218-01-9	Chrysene	160	U	23.8	160	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	160	U	70.9	160	200	ug/Kg
117-84-0	Di-n-octyl phthalate	320	U	100	320	400	ug/Kg
205-99-2	Benzo(b)fluoranthene	160	U	22.8	160	200	ug/Kg

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Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	17M-N	SDG No.:	Q2819
Lab Sample ID:	Q2819-15	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	83.3
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143506.D	1	08/15/25 08:25	08/21/25 01:56	PB169259

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	160	U	26.8	160	200	ug/Kg
50-32-8	Benzo(a)pyrene	160	U	35.3	160	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	160	U	34.9	160	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	160	U	32.8	160	200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	160	U	30.8	160	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	160	U	30.7	160	200	ug/Kg
123-91-1	1,4-Dioxane	160	U	54.2	160	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	160	U	32.8	160	200	ug/Kg
SURROGATES							
367-12-4	2-Fluorophenol	77.2		35 - 115		51%	SPK: 150
13127-88-3	Phenol-d6	80.3		34 - 127		54%	SPK: 150
4165-60-0	Nitrobenzene-d5	57.1		37 - 122		57%	SPK: 100
321-60-8	2-Fluorobiphenyl	51.1		44 - 115		51%	SPK: 100
118-79-6	2,4,6-Tribromophenol	76.3		39 - 132		51%	SPK: 150
1718-51-0	Terphenyl-d14	47.3	*	54 - 127		47%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	140000	6.928				
1146-65-2	Naphthalene-d8	529000	8.204				
15067-26-2	Acenaphthene-d10	291000	9.963				
1517-22-2	Phenanthrene-d10	438000	11.451				
1719-03-5	Chrysene-d12	244000	14.098				
1520-96-3	Perylene-d12	299000	15.592				
TENTATIVE IDENTIFIED COMPOUNDS							
000994-05-8	Butane, 2-methoxy-2-methyl-	1100	J			2.27	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	230	AB			5.16	ug/Kg
000119-61-9	Benzophenone	300	J			10.7	ug/Kg

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Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	17M-N	SDG No.:	Q2819
Lab Sample ID:	Q2819-15	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	83.3
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143506.D	1	08/15/25 08:25	08/21/25 01:56	PB169259

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	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\BF082025\
Data File : BF143506.D
Acq On : 21 Aug 2025 01:56
Operator : RC/JU
Sample : Q2819-15
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
17M-N

Quant Time: Aug 21 02:50:14 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 20 15:07:46 2025
Response via : Initial Calibration

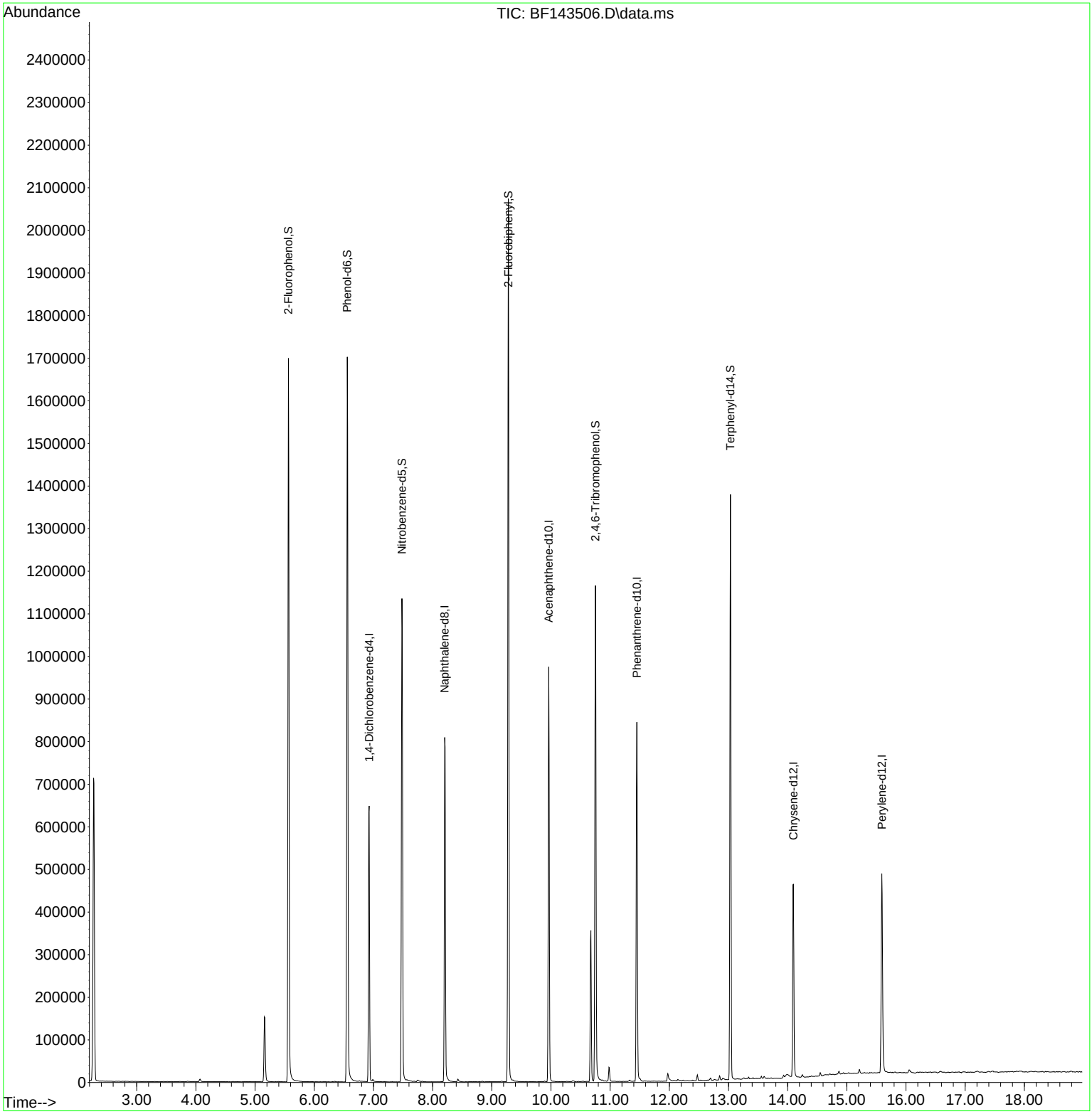
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.928	152	139750	20.000	ng	0.00
21) Naphthalene-d8	8.204	136	529192	20.000	ng	0.00
39) Acenaphthene-d10	9.963	164	290910	20.000	ng	0.00
64) Phenanthrene-d10	11.451	188	438066	20.000	ng	0.00
76) Chrysene-d12	14.098	240	243885	20.000	ng	0.00
86) Perylene-d12	15.592	264	298964	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.563	112	617737	77.186	ng	0.00
7) Phenol-d6	6.557	99	793417	80.309	ng	-0.02
23) Nitrobenzene-d5	7.481	82	517428	57.058	ng	-0.02
42) 2,4,6-Tribromophenol	10.751	330	206516	76.263	ng	-0.01
45) 2-Fluorobiphenyl	9.281	172	899741	51.115	ng	0.00
79) Terphenyl-d14	13.033	244	661572	47.337	ng	0.00
Target Compounds						Qvalue

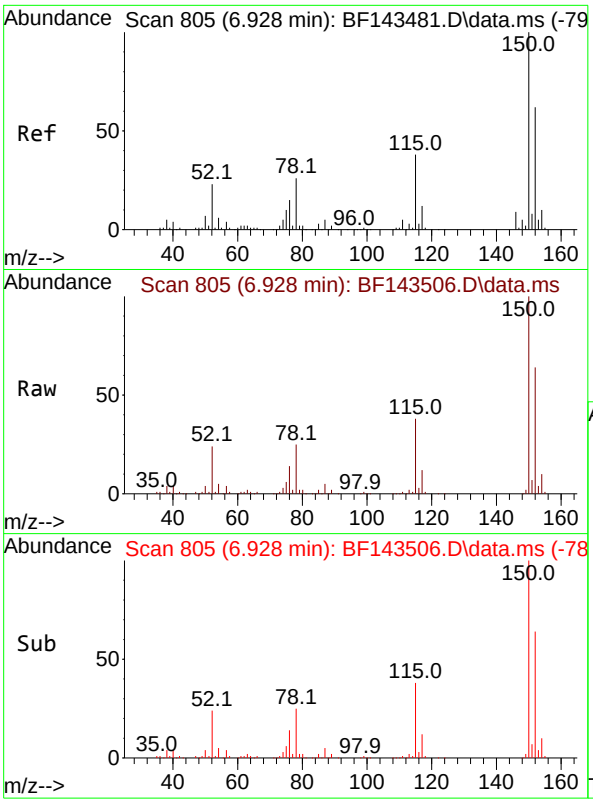
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082025\
Data File : BF143506.D
Acq On : 21 Aug 2025 01:56
Operator : RC/JU
Sample : Q2819-15
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
17M-N

Quant Time: Aug 21 02:50:14 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 20 15:07:46 2025
Response via : Initial Calibration



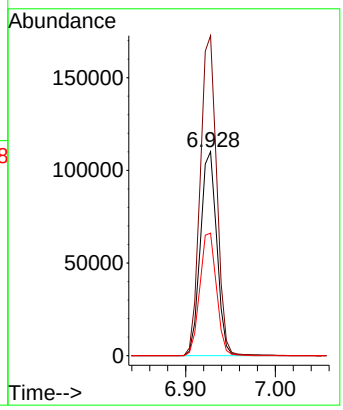


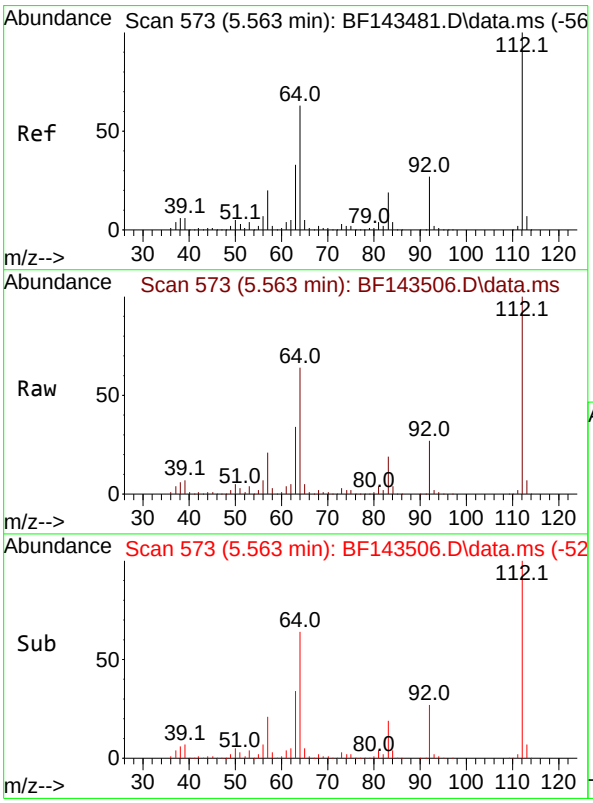
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.928 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF143506.D
Acq: 21 Aug 2025 01:56

Instrument :
BNA_F
ClientSampleId :
17M-N

Tgt Ion:152 Resp: 139750

Ion	Ratio	Lower	Upper
152	100		
150	156.9	128.9	193.3
115	60.1	49.2	73.8

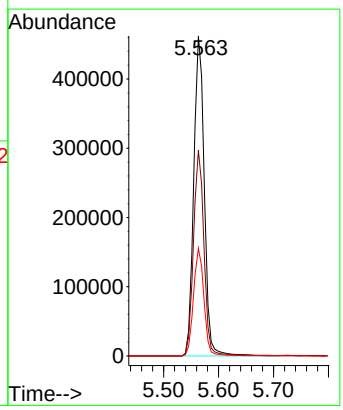


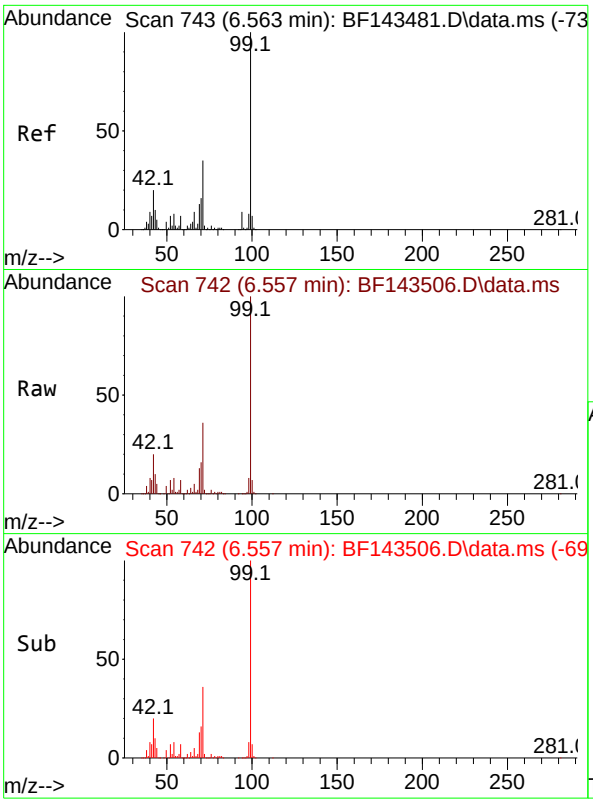


#5
2-Fluorophenol
Concen: 77.186 ng
RT: 5.563 min Scan# 573
Delta R.T. -0.000 min
Lab File: BF143506.D
Acq: 21 Aug 2025 01:56

Tgt Ion:112 Resp: 617737

Ion	Ratio	Lower	Upper
112	100		
64	64.3	50.4	75.6
63	33.6	26.4	39.6



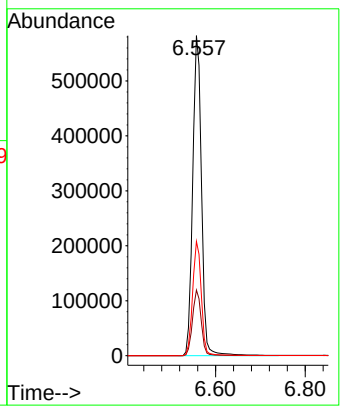


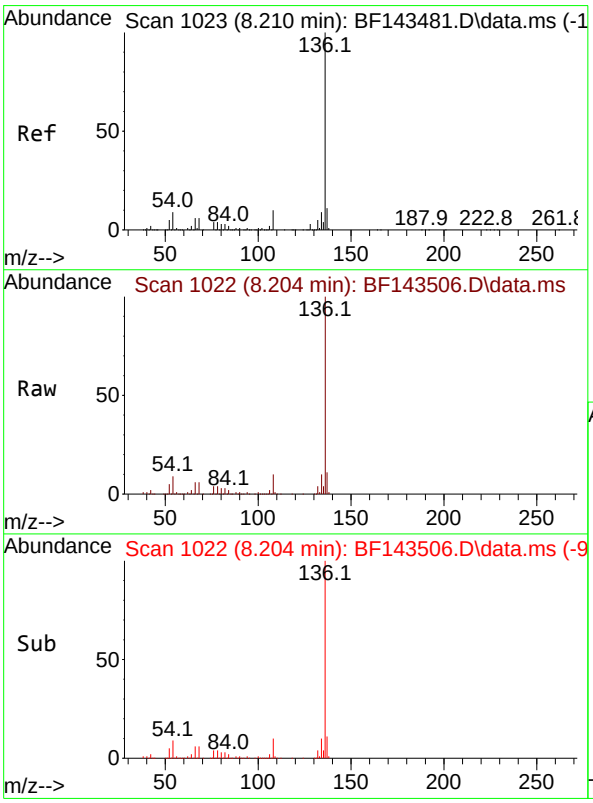
#7
Phenol-d6
Concen: 80.309 ng
RT: 6.557 min Scan# 7
Delta R.T. -0.018 min
Lab File: BF143506.D
Acq: 21 Aug 2025 01:56

Instrument :
BNA_F
ClientSampleId :
17M-N

Tgt Ion: 99 Resp: 793417

Ion	Ratio	Lower	Upper
99	100		
42	20.5	16.3	24.5
71	35.7	28.2	42.2

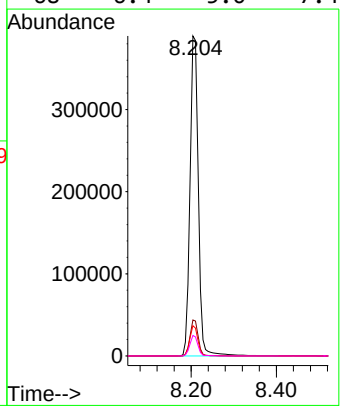


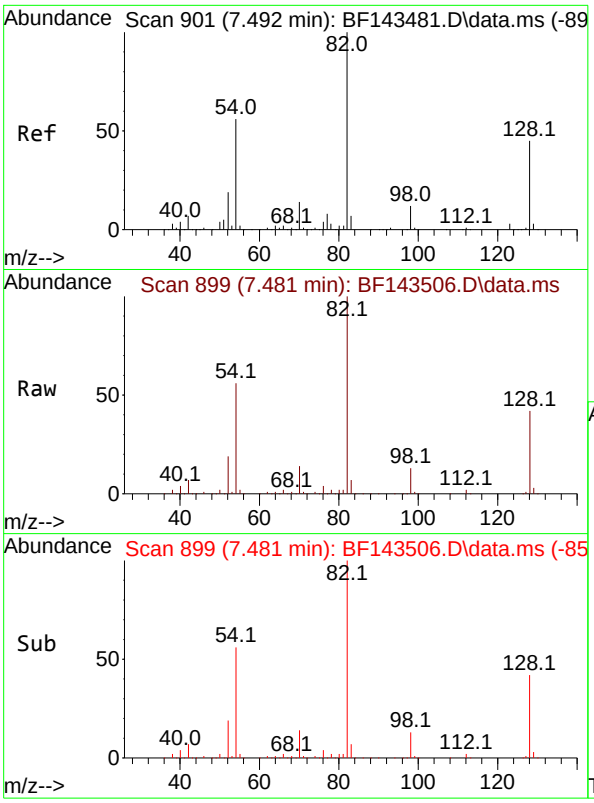


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.204 min Scan# 1022
Delta R.T. -0.006 min
Lab File: BF143506.D
Acq: 21 Aug 2025 01:56

Tgt Ion:136 Resp: 529192

Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.0	13.4
54	9.5	7.4	11.2
68	6.4	5.0	7.4



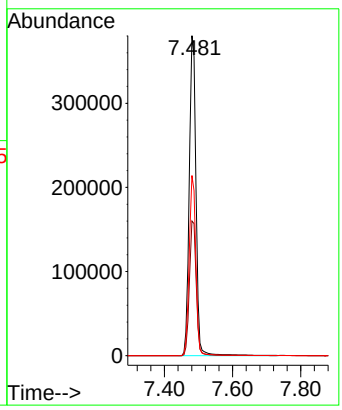


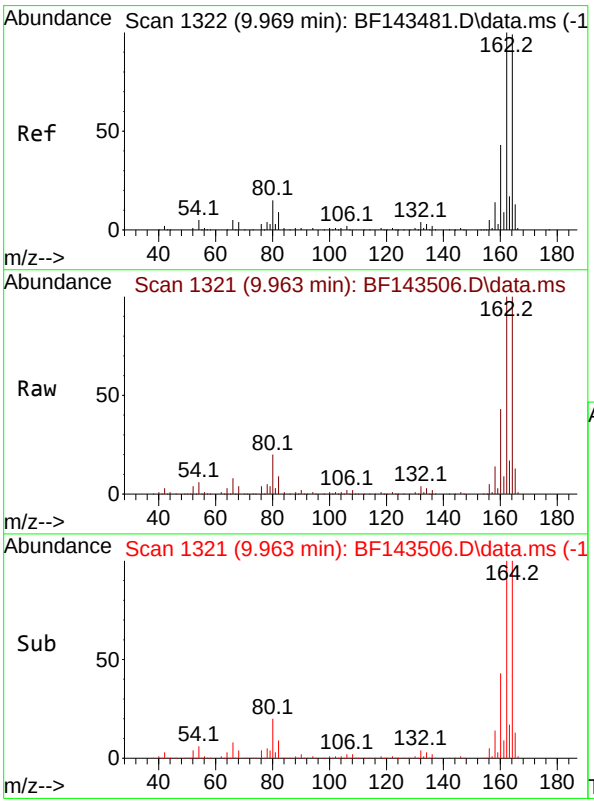
#23
Nitrobenzene-d5
Concen: 57.058 ng
RT: 7.481 min Scan# 8
Delta R.T. -0.018 min
Lab File: BF143506.D
Acq: 21 Aug 2025 01:56

Instrument :
BNA_F
ClientSampleId :
17M-N

Tgt Ion: 82 Resp: 517428

Ion	Ratio	Lower	Upper
82	100		
128	42.1	35.5	53.3
54	56.3	44.3	66.5

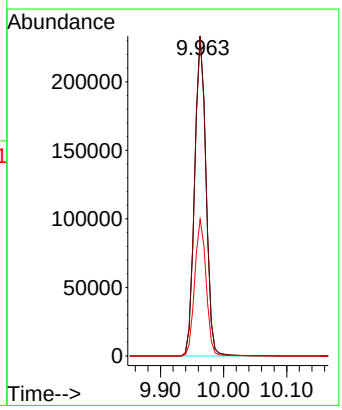


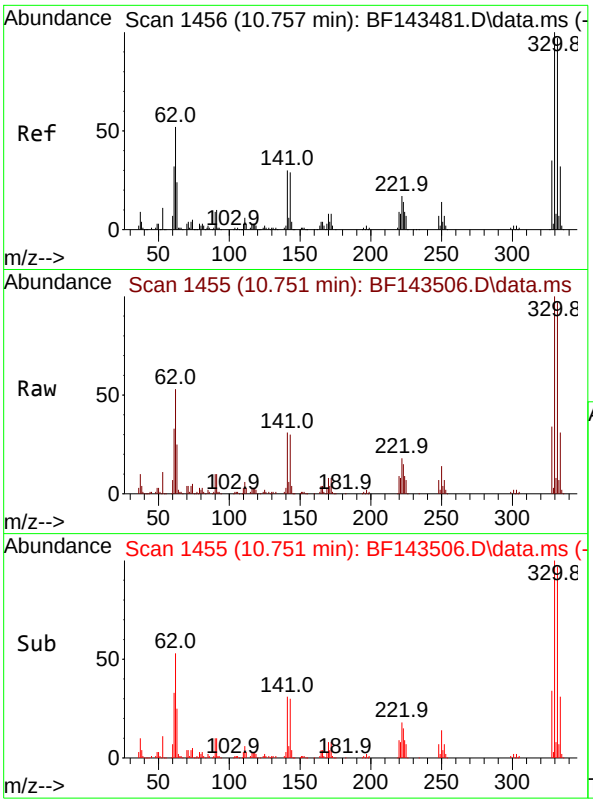


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.963 min Scan# 1321
Delta R.T. -0.006 min
Lab File: BF143506.D
Acq: 21 Aug 2025 01:56

Tgt Ion:164 Resp: 290910

Ion	Ratio	Lower	Upper
164	100		
162	100.0	80.5	120.7
160	42.7	34.3	51.5



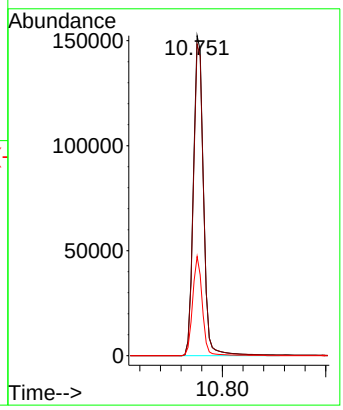


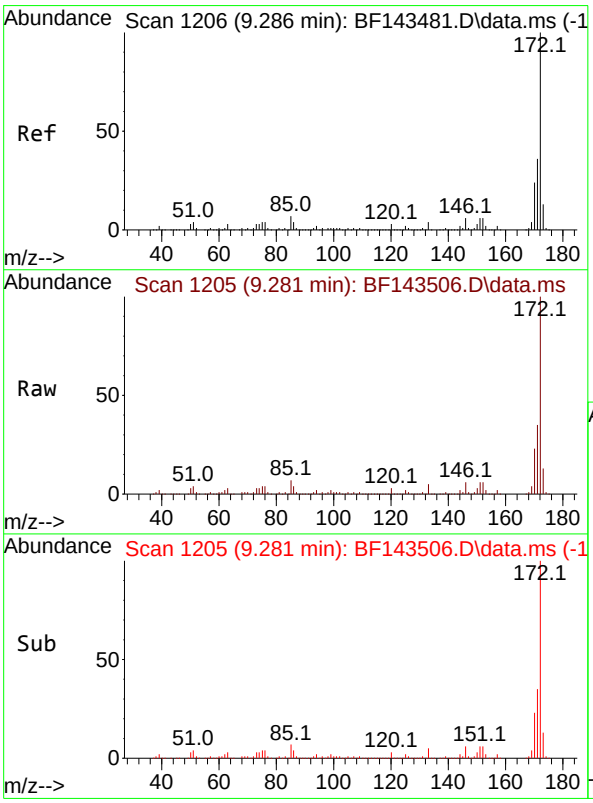
#42
2,4,6-Tribromophenol
Concen: 76.263 ng
RT: 10.751 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF143506.D
Acq: 21 Aug 2025 01:56

Instrument :
BNA_F
ClientSampleId :
17M-N

Tgt Ion:330 Resp: 206516

Ion	Ratio	Lower	Upper
330	100		
332	97.7	78.0	117.0
141	30.0	23.7	35.5

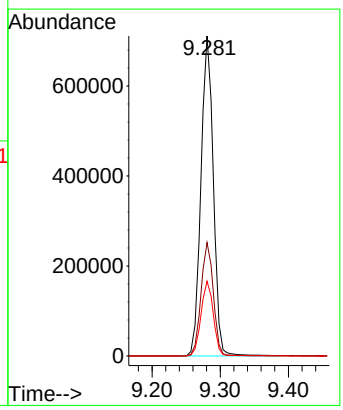


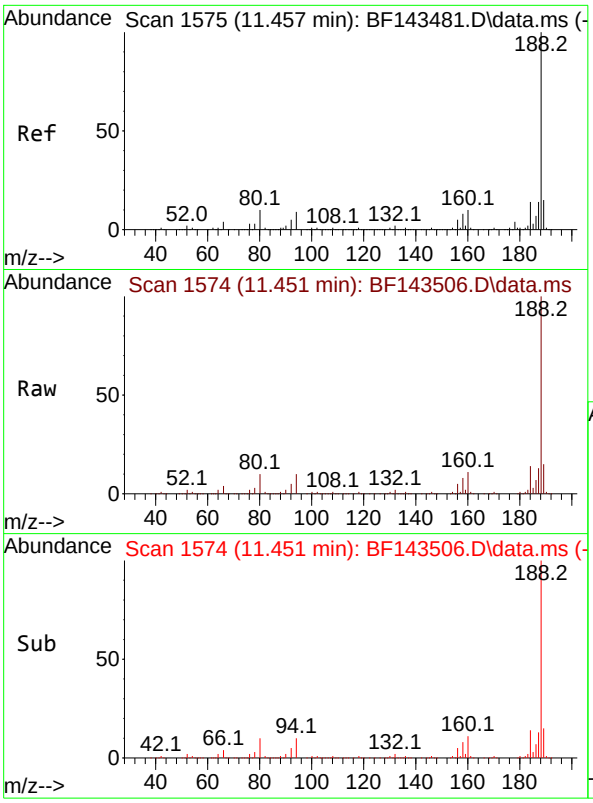


#45
2-Fluorobiphenyl
Concen: 51.115 ng
RT: 9.281 min Scan# 1205
Delta R.T. -0.006 min
Lab File: BF143506.D
Acq: 21 Aug 2025 01:56

Tgt Ion:172 Resp: 899741

Ion	Ratio	Lower	Upper
172	100		
171	35.5	28.8	43.2
170	23.4	18.8	28.2



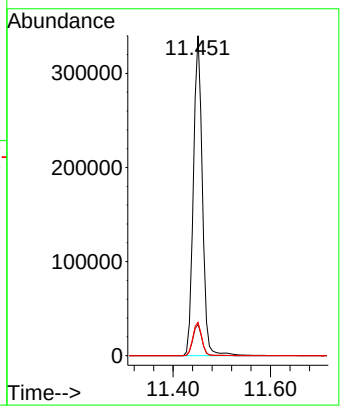


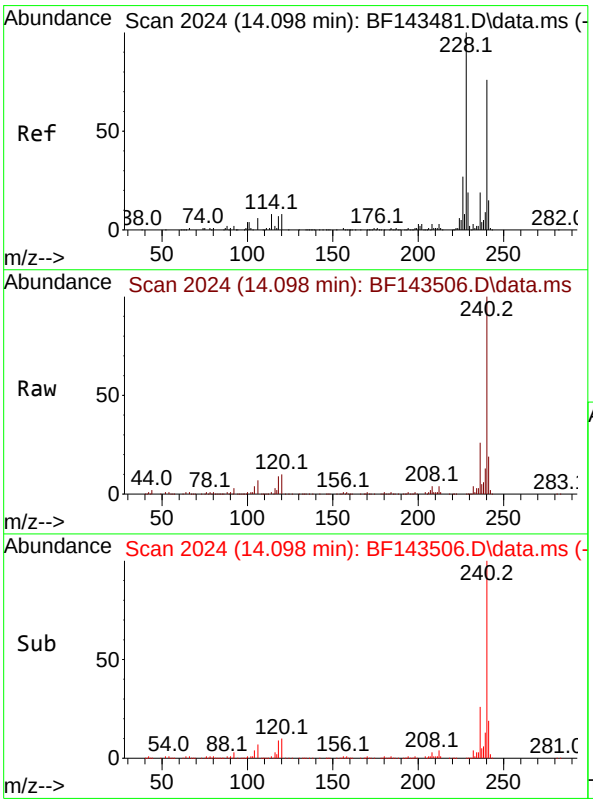
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.451 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143506.D
Acq: 21 Aug 2025 01:56

Instrument :
BNA_F
ClientSampleId :
17M-N

Tgt Ion:188 Resp: 438066

Ion	Ratio	Lower	Upper
188	100		
94	9.8	7.4	11.2
80	10.4	8.2	12.4

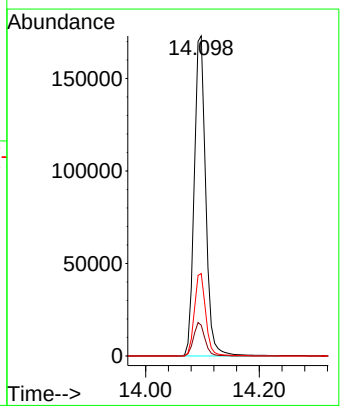


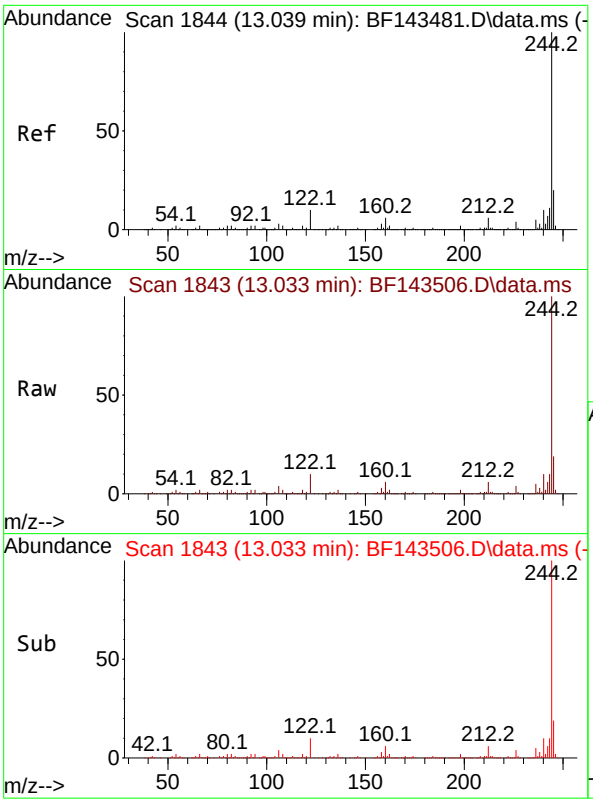


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.098 min Scan# 2024
Delta R.T. -0.006 min
Lab File: BF143506.D
Acq: 21 Aug 2025 01:56

Tgt Ion:240 Resp: 243885

Ion	Ratio	Lower	Upper
240	100		
120	9.6	8.6	12.8
236	25.8	20.4	30.6



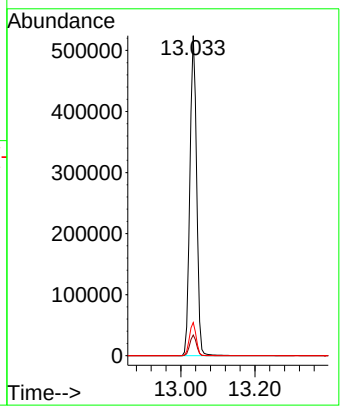


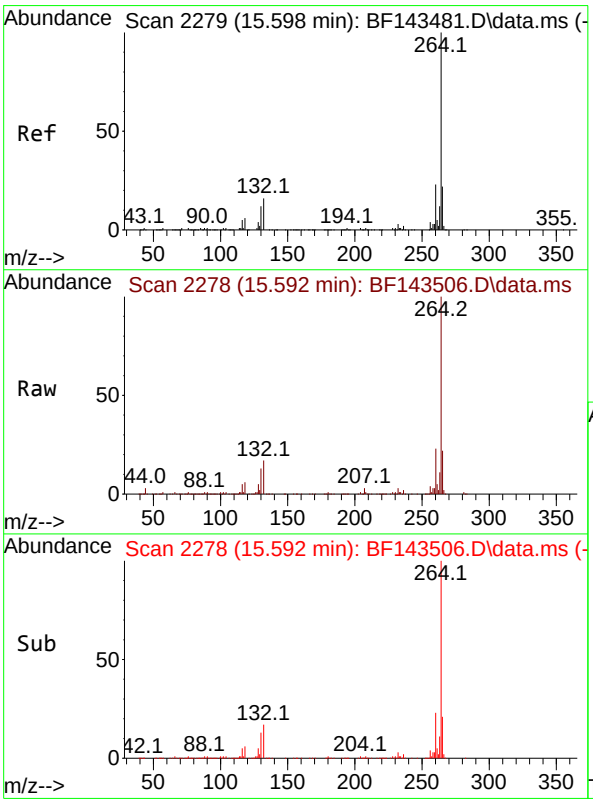
#79
Terphenyl-d14
Concen: 47.337 ng
RT: 13.033 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143506.D
Acq: 21 Aug 2025 01:56

Instrument :
BNA_F
ClientSampleId :
17M-N

Tgt Ion:244 Resp: 661572

Ion	Ratio	Lower	Upper
244	100		
212	6.5	5.2	7.8
122	10.3	7.9	11.9

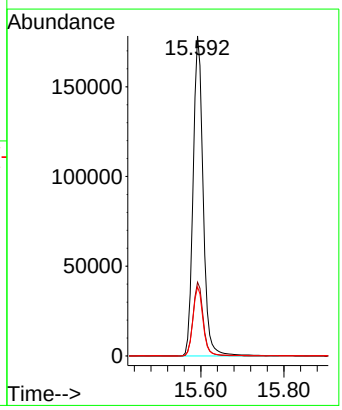




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.592 min Scan# 2278
Delta R.T. -0.006 min
Lab File: BF143506.D
Acq: 21 Aug 2025 01:56

Tgt Ion:264 Resp: 298964

Ion	Ratio	Lower	Upper
264	100		
260	23.1	18.7	28.1
265	21.6	17.6	26.4



Sample Results: **BF143506.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082025\
Data File : BF143506.D
Acq On : 21 Aug 2025 01:56
Operator : RC/JU
Sample : Q2819-15
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
17M-N

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-BF082025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF143506.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.269	5	13	24	rVB	710850	1159798	44.60%	5.951%
2	5.157	496	504	516	rBV	152210	242264	9.32%	1.243%
3	5.563	568	573	596	rBV	1697799	2249506	86.50%	11.542%
4	6.557	736	742	763	rBV	1701508	2318765	89.16%	11.897%
5	6.928	799	805	812	rBV	646631	830853	31.95%	4.263%
6	7.481	893	899	911	rBV	1134256	1525686	58.67%	7.828%
7	8.204	1017	1022	1040	rBV	808283	1083389	41.66%	5.559%
8	9.281	1199	1205	1217	rBV	2072053	2600667	100.00%	13.343%
9	9.963	1316	1321	1336	rBV	973225	1210057	46.53%	6.208%
10	10.675	1437	1442	1450	rBV	354503	450958	17.34%	2.314%
11	10.751	1450	1455	1472	rVV	1162923	1525856	58.67%	7.829%
12	10.980	1488	1494	1505	rVB	32872	46474	1.79%	0.238%
13	11.451	1569	1574	1592	rBV	843149	1083294	41.65%	5.558%
14	11.974	1659	1663	1677	rBV3	17675	35502	1.37%	0.182%
15	13.033	1838	1843	1854	rBV	1373151	1722672	66.24%	8.839%
16	14.098	2018	2024	2037	rVB	452092	632685	24.33%	3.246%
17	15.592	2272	2278	2290	rBV	467566	772056	29.69%	3.961%

Sum of corrected areas: 19490482

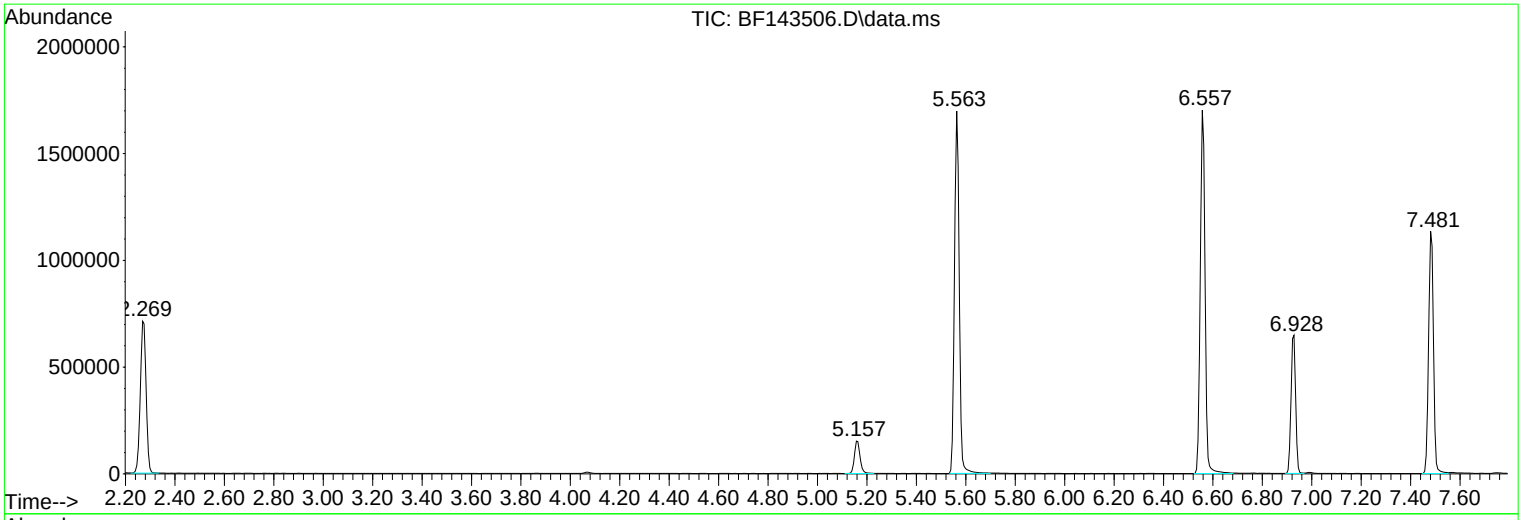
Sample Results: **BF143506.D**

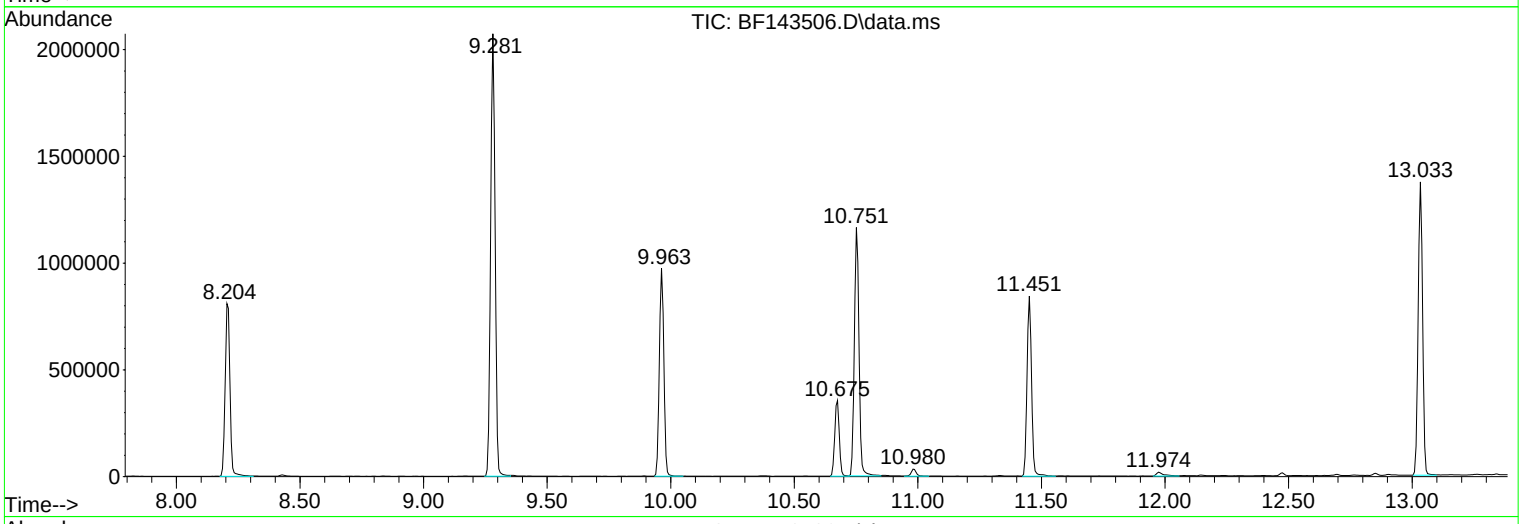
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082025\
Data File : BF143506.D
Acq On : 21 Aug 2025 01:56
Operator : RC/JU
Sample : Q2819-15
Misc :
ALS Vial : 30 Sample Multiplier: 1

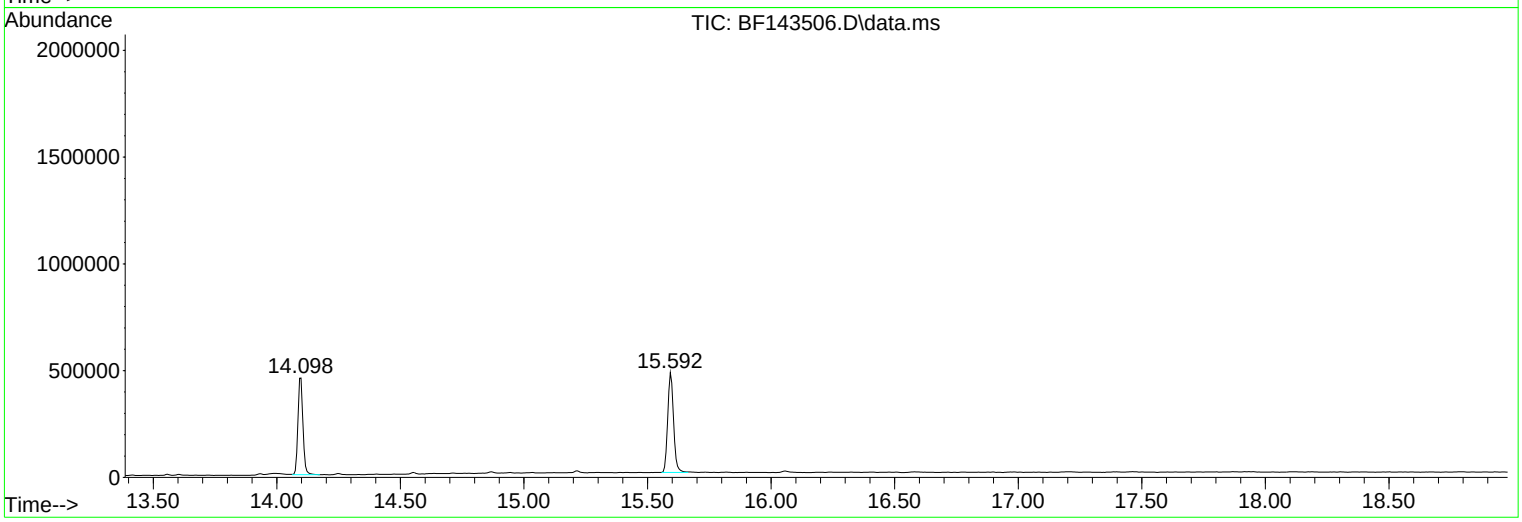
Instrument :
BNA_F
ClientSampleId :
17M-N

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.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\BF082025\
Data File : BF143506.D
Acq On : 21 Aug 2025 01:56
Operator : RC/JU
Sample : Q2819-15
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
17M-N

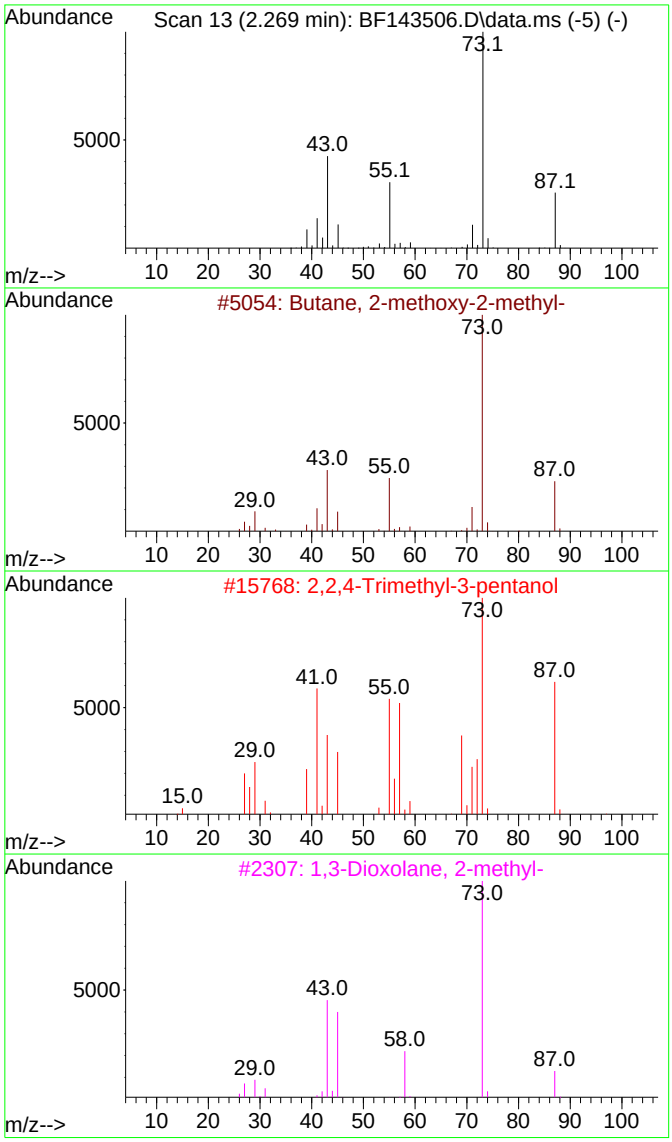
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

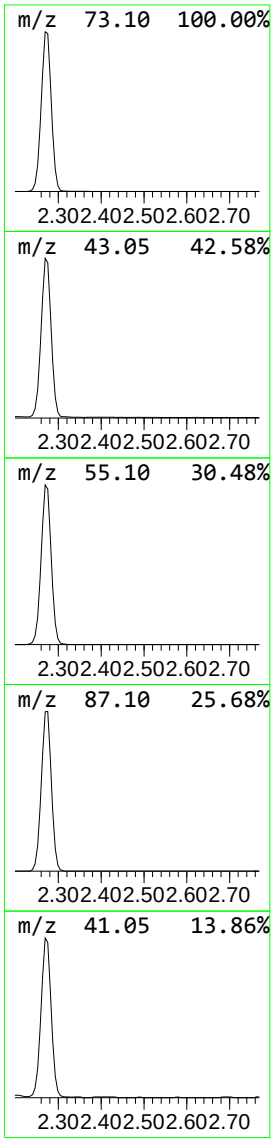
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.269	27.92 ng	1159800	1,4-Dichlorobenzene-d4	6.928

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	83
2	2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	39
3	1,3-Dioxolane, 2-methyl-	88	C4H8O2	000497-26-7	25
4	Octanal, 7-methoxy-3,7-dimethyl-	186	C11H22O2	003613-30-7	17
5	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	12





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082025\
Data File : BF143506.D
Acq On : 21 Aug 2025 01:56
Operator : RC/JU
Sample : Q2819-15
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
17M-N

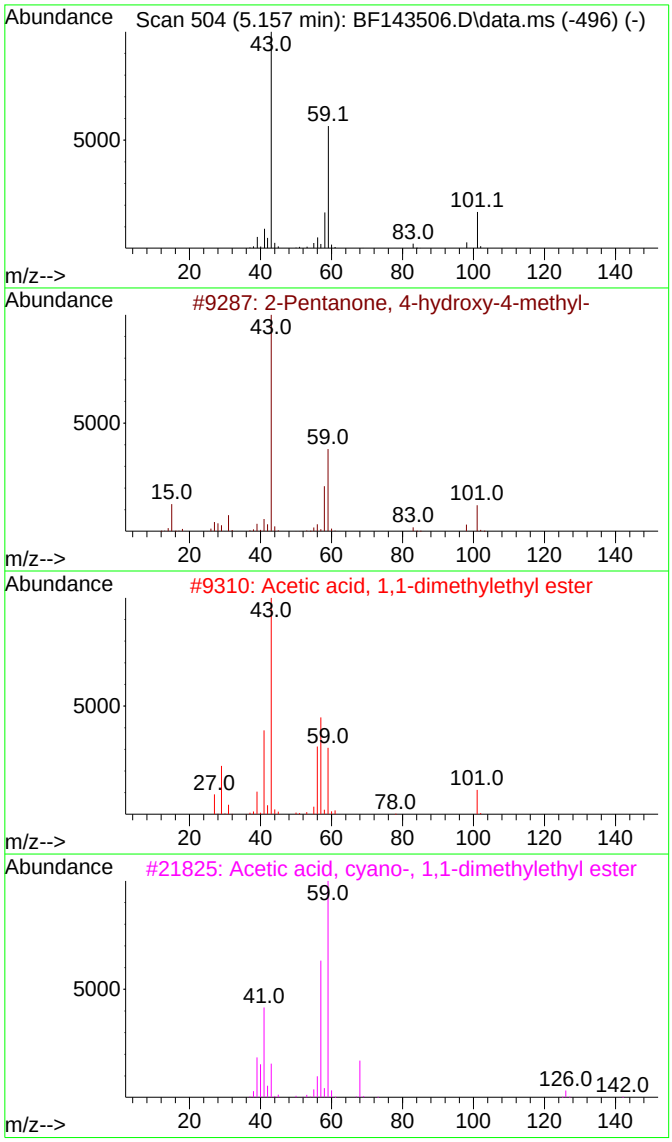
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

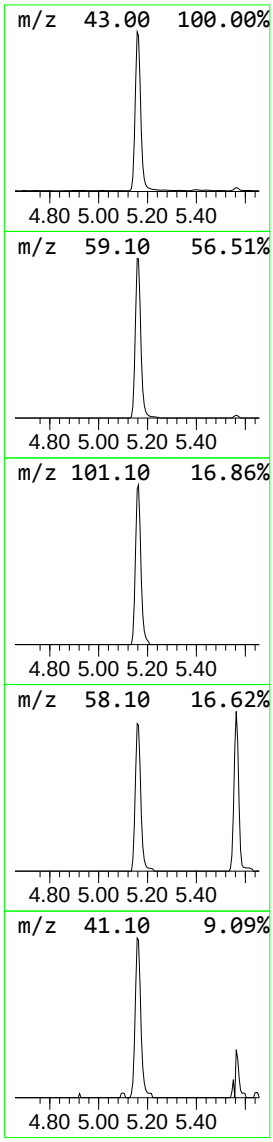
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.157	5.83 ng	242264	1,4-Dichlorobenzene-d4	6.928

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	59
2	Acetic acid, 1,1-dimethylethyl e...	116	C6H12O2	000540-88-5	38
3	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	25
4	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	12
5	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	10





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082025\
Data File : BF143506.D
Acq On : 21 Aug 2025 01:56
Operator : RC/JU
Sample : Q2819-15
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
17M-N

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

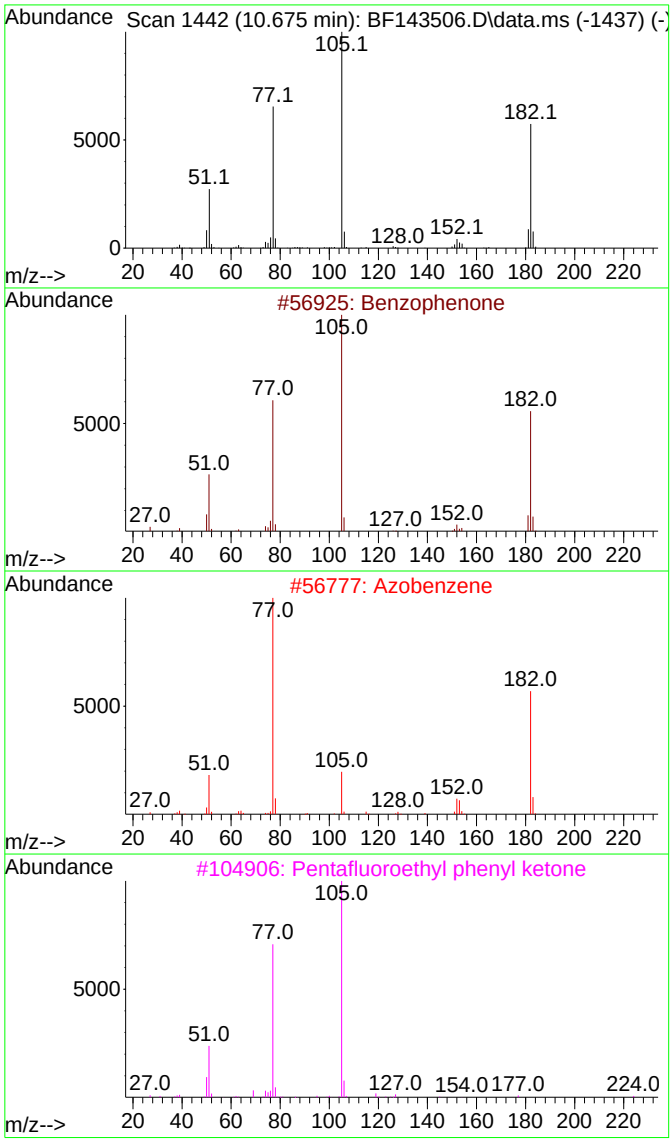
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

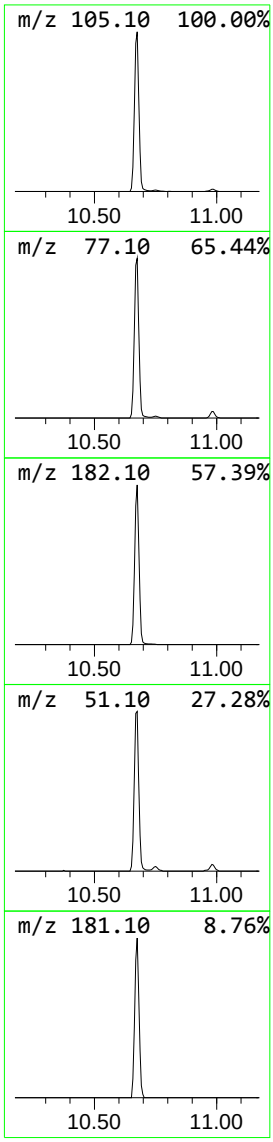
****

Peak Number 3 Benzophenone Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.675	7.45 ng	450958	Acenaphthene-d10	9.963

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	Azobenzene	182	C12H10N2	000103-33-3	72
3	Pentafluoroethyl phenyl ketone	224	C9H5F5O	000394-52-5	47
4	N-Methoxy-N-methylbenzamide	165	C9H11NO2	006919-61-5	47
5	N-Methylbenzamide, N-trifluoroac...	231	C10H8F3NO2	1000446-91-5	47





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082025\
Data File : BF143506.D
Acq On : 21 Aug 2025 01:56
Operator : RC/JU
Sample : Q2819-15
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
17M-N

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.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...	2.269	27.9	ng	1159800	1	6.928	830853	20.0
2-Pentanone, 4-...	5.157	5.8	ng	242264	1	6.928	830853	20.0
Benzophenone	10.675	7.5	ng	450958	3	9.963	1210060	20.0

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/06/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	38M-S	SDG No.:	Q2819
Lab Sample ID:	Q2819-16	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	92.4
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
BP025540.D	2	08/15/25 08:25	08/21/25 14:56	PB169259

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
100-52-7	Benzaldehyde	580	U	340	580	710	ug/Kg
108-95-2	Phenol	280	U	47.8	280	370	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	280	U	52.6	280	370	ug/Kg
95-57-8	2-Chlorophenol	280	U	52.8	280	370	ug/Kg
95-48-7	2-Methylphenol	280	U	64.7	280	370	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	280	U	81.1	280	370	ug/Kg
98-86-2	Acetophenone	280	U	63.8	280	370	ug/Kg
65794-96-9	3+4-Methylphenols	580	U	88.9	580	710	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	170	U	100	170	170	ug/Kg
67-72-1	Hexachloroethane	280	U	38.1	280	370	ug/Kg
98-95-3	Nitrobenzene	280	U	39.6	280	370	ug/Kg
78-59-1	Isophorone	280	U	70.9	280	370	ug/Kg
88-75-5	2-Nitrophenol	280	U	130	280	370	ug/Kg
105-67-9	2,4-Dimethylphenol	280	U	140	280	370	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	280	U	66.6	280	370	ug/Kg
120-83-2	2,4-Dichlorophenol	280	U	61.2	280	370	ug/Kg
91-20-3	Naphthalene	280	U	49.1	280	370	ug/Kg
106-47-8	4-Chloroaniline	280	U	76.6	280	370	ug/Kg
87-68-3	Hexachlorobutadiene	280	U	54.7	280	370	ug/Kg
105-60-2	Caprolactam	580	U	110	580	710	ug/Kg
59-50-7	4-Chloro-3-methylphenol	280	U	62.1	280	370	ug/Kg
91-57-6	2-Methylnaphthalene	280	U	55.4	280	370	ug/Kg
77-47-4	Hexachlorocyclopentadiene	580	U	250	580	710	ug/Kg
88-06-2	2,4,6-Trichlorophenol	280	U	42.8	280	370	ug/Kg
95-95-4	2,4,5-Trichlorophenol	280	U	62.9	280	370	ug/Kg
92-52-4	1,1-Biphenyl	280	U	47.2	280	370	ug/Kg
91-58-7	2-Chloronaphthalene	280	U	48.7	280	370	ug/Kg
88-74-4	2-Nitroaniline	280	U	100	280	370	ug/Kg
131-11-3	Dimethylphthalate	280	U	58.6	280	370	ug/Kg

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/06/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	38M-S	SDG No.:	Q2819
Lab Sample ID:	Q2819-16	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	92.4
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
BP025540.D	2	08/15/25 08:25	08/21/25 14:56	PB169259

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	280	U	62.5	280	370	ug/Kg
606-20-2	2,6-Dinitrotoluene	280	U	72.7	280	370	ug/Kg
99-09-2	3-Nitroaniline	280	U	99.5	280	370	ug/Kg
83-32-9	Acenaphthene	280	U	46.1	280	370	ug/Kg
51-28-5	2,4-Dinitrophenol	580	U	500	580	710	ug/Kg
100-02-7	4-Nitrophenol	580	U	230	580	710	ug/Kg
132-64-9	Dibenzofuran	280	U	49.1	280	370	ug/Kg
121-14-2	2,4-Dinitrotoluene	280	U	110	280	370	ug/Kg
84-66-2	Diethylphthalate	280	U	61.2	280	370	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	280	U	57.8	280	370	ug/Kg
86-73-7	Fluorene	280	U	54.7	280	370	ug/Kg
100-01-6	4-Nitroaniline	280	U	140	280	370	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	580	U	220	580	710	ug/Kg
86-30-6	n-Nitrosodiphenylamine	280	U	71.2	280	370	ug/Kg
101-55-3	4-Bromophenyl-phenylether	280	U	60.1	280	370	ug/Kg
118-74-1	Hexachlorobenzene	280	U	54.7	280	370	ug/Kg
1912-24-9	Atrazine	280	U	73.5	280	370	ug/Kg
87-86-5	Pentachlorophenol	580	U	110	580	710	ug/Kg
85-01-8	Phenanthrene	280	U	45.2	280	370	ug/Kg
120-12-7	Anthracene	280	U	72.0	280	370	ug/Kg
86-74-8	Carbazole	280	U	67.5	280	370	ug/Kg
84-74-2	Di-n-butylphthalate	280	U	100	280	370	ug/Kg
206-44-0	Fluoranthene	280	U	64.9	280	370	ug/Kg
129-00-0	Pyrene	280	U	77.9	280	370	ug/Kg
85-68-7	Butylbenzylphthalate	280	U	150	280	370	ug/Kg
91-94-1	3,3-Dichlorobenzidine	580	U	79.4	580	710	ug/Kg
56-55-3	Benzo(a)anthracene	280	U	49.8	280	370	ug/Kg
218-01-9	Chrysene	280	U	43.0	280	370	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	280	U	130	280	370	ug/Kg
117-84-0	Di-n-octyl phthalate	580	U	190	580	710	ug/Kg
205-99-2	Benzo(b)fluoranthene	280	U	41.1	280	370	ug/Kg

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/06/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	38M-S	SDG No.:	Q2819
Lab Sample ID:	Q2819-16	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	92.4
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
BP025540.D	2	08/15/25 08:25	08/21/25 14:56	PB169259

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	280	U	48.5	280	370	ug/Kg
50-32-8	Benzo(a)pyrene	280	U	63.8	280	370	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	280	U	62.9	280	370	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	280	U	59.3	280	370	ug/Kg
191-24-2	Benzo(g,h,i)perylene	280	U	55.6	280	370	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	280	U	55.4	280	370	ug/Kg
123-91-1	1,4-Dioxane	280	U	97.8	280	370	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	280	U	59.3	280	370	ug/Kg
SURROGATES							
367-12-4	2-Fluorophenol	90.9		35 - 115		61%	SPK: 150
13127-88-3	Phenol-d6	91.8		34 - 127		61%	SPK: 150
4165-60-0	Nitrobenzene-d5	59.4		37 - 122		59%	SPK: 100
321-60-8	2-Fluorobiphenyl	60.1		44 - 115		60%	SPK: 100
118-79-6	2,4,6-Tribromophenol	87.3		39 - 132		58%	SPK: 150
1718-51-0	Terphenyl-d14	56.6		54 - 127		57%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	225000	7.784				
1146-65-2	Naphthalene-d8	871000	10.554				
15067-26-2	Acenaphthene-d10	495000	14.413				
1517-22-2	Phenanthrene-d10	919000	17.207				
1719-03-5	Chrysene-d12	943000	21.653				
1520-96-3	Perylene-d12	1080000	25.03				
TENTATIVE IDENTIFIED COMPOUNDS							
000994-05-8	Butane, 2-methoxy-2-methyl-	680	J			3.04	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	200	AB			4.94	ug/Kg
000143-24-8	Tetraglyme	210	J			14.5	ug/Kg
000119-61-9	Benzophenone	330	J			15.8	ug/Kg
1000366-88-2	Methyl 2-(2-(2-methoxyethoxy)ethox	560	J			16.9	ug/Kg
000057-10-3	n-Hexadecanoic acid	470	J			18.1	ug/Kg
016142-03-3	2-(2-(2-(2-(2-(2-Methoxyethoxy)eth	450	J			18.9	ug/Kg

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/06/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	38M-S	SDG No.:	Q2819
Lab Sample ID:	Q2819-16	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	92.4
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
BP025540.D	2	08/15/25 08:25	08/21/25 14:56	PB169259

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
000057-11-4	Octadecanoic acid	260	J			19.5	ug/Kg
1000151-22-6	Cyclodocosane, ethyl-	250	J			21.3	ug/Kg
005393-19-1	Phthalic acid, monooctyl ester	160	J			21.6	ug/Kg

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025540.D
Acq On : 21 Aug 2025 14:56
Operator : CG/JU
Sample : Q2819-16 2X
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
38M-S

Quant Time: Aug 21 16:21:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration

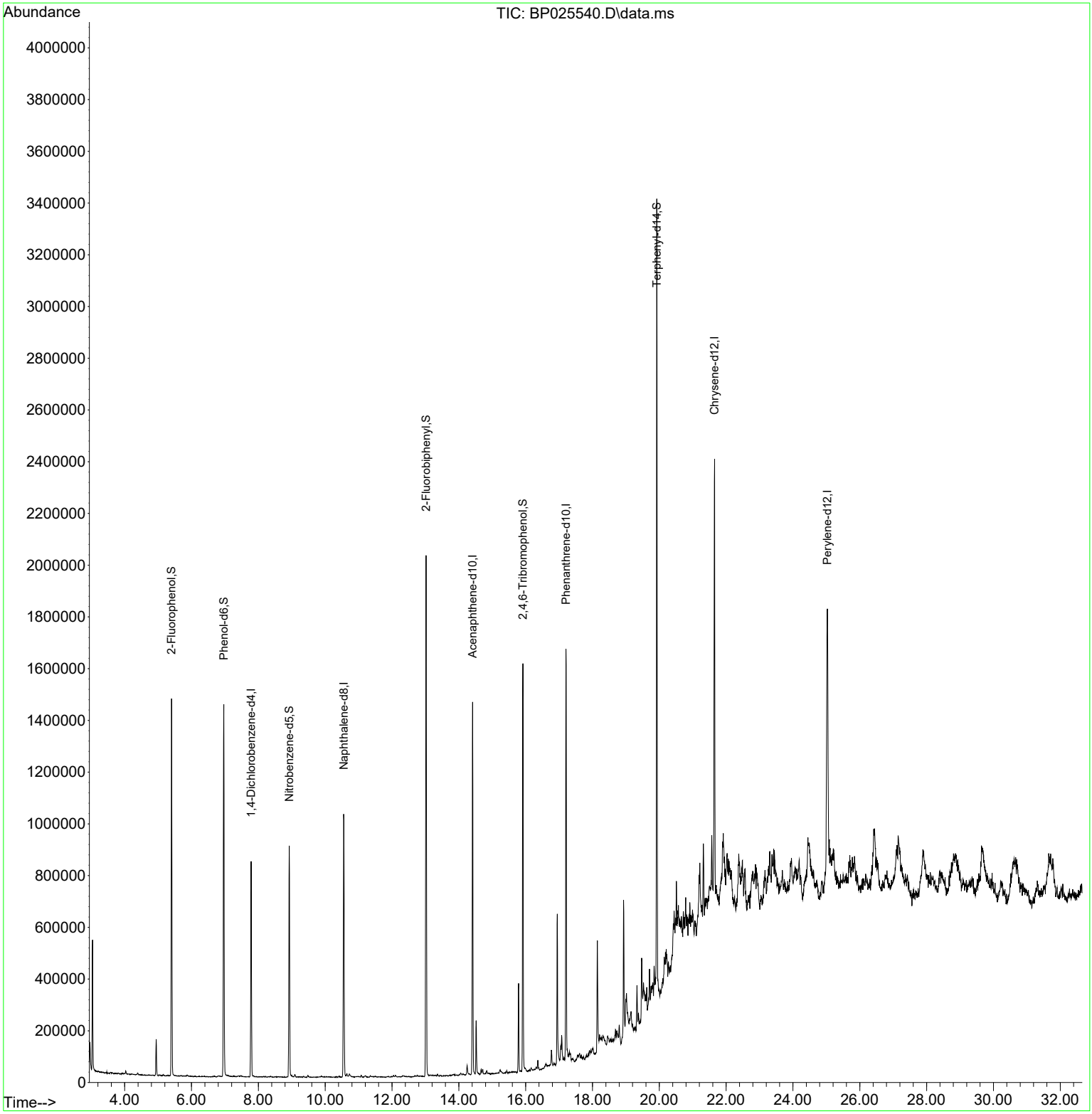
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.784	152	225369	20.000	ng	-0.01
21) Naphthalene-d8	10.554	136	870787	20.000	ng	0.00
39) Acenaphthene-d10	14.413	164	494598	20.000	ng	0.00
64) Phenanthrene-d10	17.207	188	919172	20.000	ng	0.00
76) Chrysene-d12	21.653	240	943340	20.000	ng	0.00
86) Perylene-d12	25.030	264	1078825	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.401	112	616957	45.462	ng	0.00
7) Phenol-d6	6.966	99	798559	45.897	ng	0.00
23) Nitrobenzene-d5	8.925	82	510918	29.680	ng	-0.01
42) 2,4,6-Tribromophenol	15.918	330	290548	43.643	ng	0.00
45) 2-Fluorobiphenyl	13.019	172	1086901	30.033	ng	0.00
79) Terphenyl-d14	19.924	244	1460247	28.321	ng	0.00
Target Compounds						Qvalue

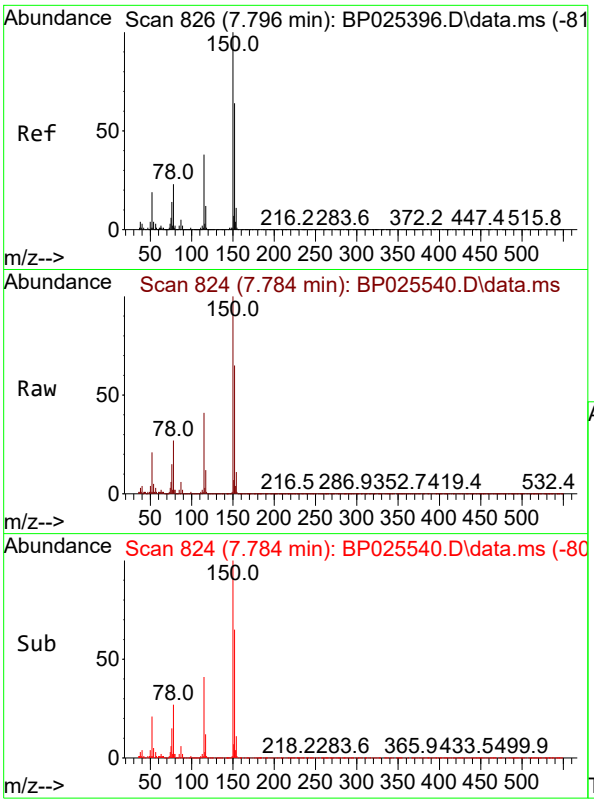
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025540.D
Acq On : 21 Aug 2025 14:56
Operator : CG/JU
Sample : Q2819-16 2X
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
38M-S

Quant Time: Aug 21 16:21:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration



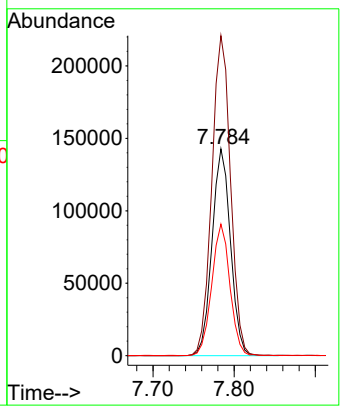


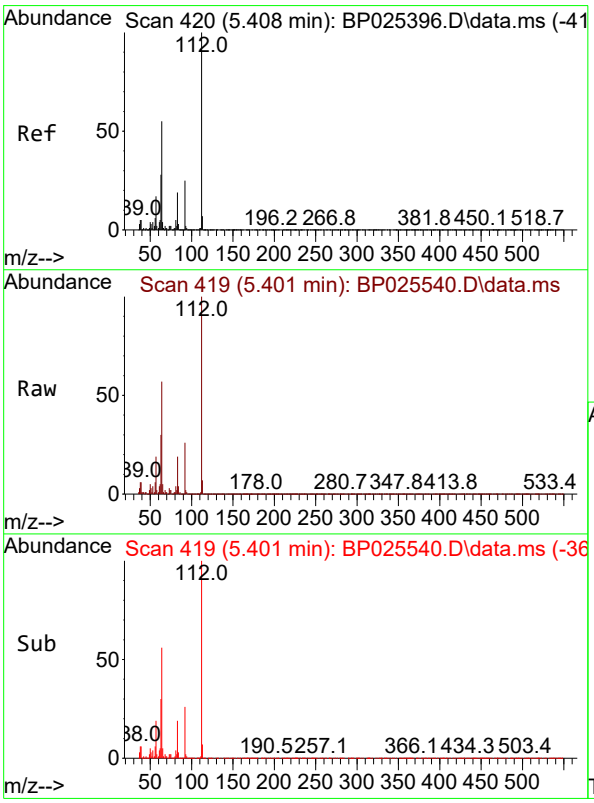
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.784 min Scan# 8
Delta R.T. -0.012 min
Lab File: BP025540.D
Acq: 21 Aug 2025 14:56

Instrument :
BNA_P
ClientSampleId :
38M-S

Tgt Ion:152 Resp: 225369

Ion	Ratio	Lower	Upper
152	100		
150	154.7	125.9	188.9
115	63.6	48.5	72.7

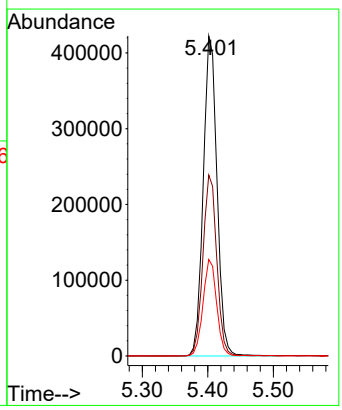


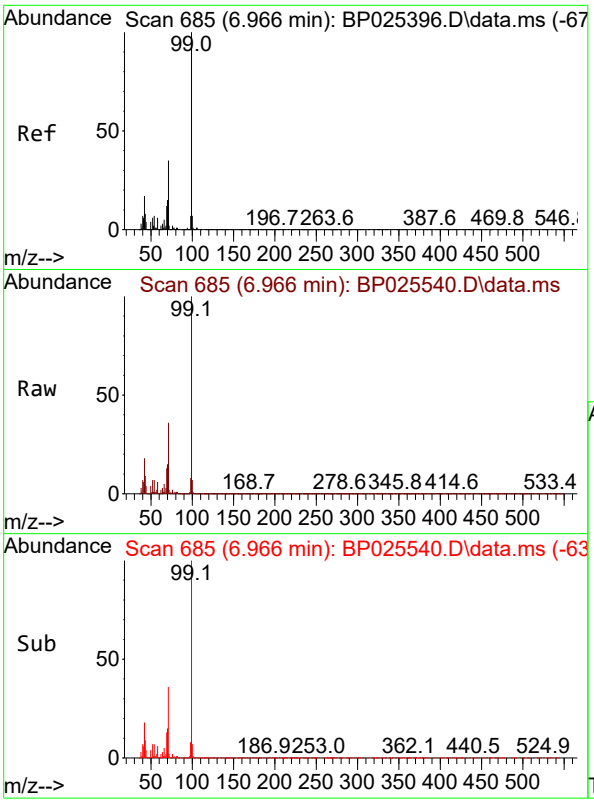


#5
2-Fluorophenol
Concen: 45.462 ng
RT: 5.401 min Scan# 419
Delta R.T. -0.006 min
Lab File: BP025540.D
Acq: 21 Aug 2025 14:56

Tgt Ion:112 Resp: 616957

Ion	Ratio	Lower	Upper
112	100		
64	56.5	43.8	65.8
63	30.2	22.7	34.1



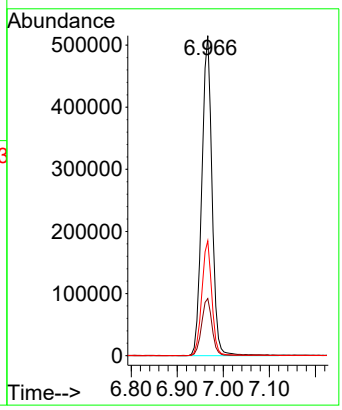


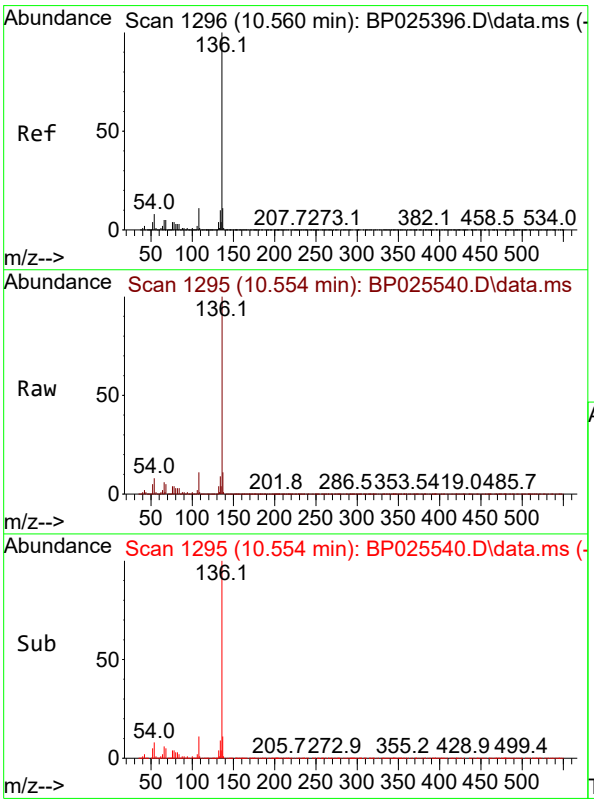
#7
Phenol-d6
Concen: 45.897 ng
RT: 6.966 min Scan# 6
Delta R.T. -0.000 min
Lab File: BP025540.D
Acq: 21 Aug 2025 14:56

Instrument :
BNA_P
ClientSampleId :
38M-S

Tgt Ion: 99 Resp: 798559

Ion	Ratio	Lower	Upper
99	100		
42	17.9	13.7	20.5
71	35.9	28.2	42.4

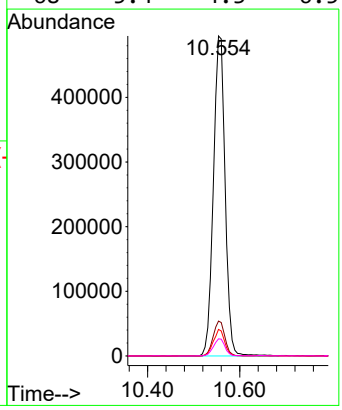


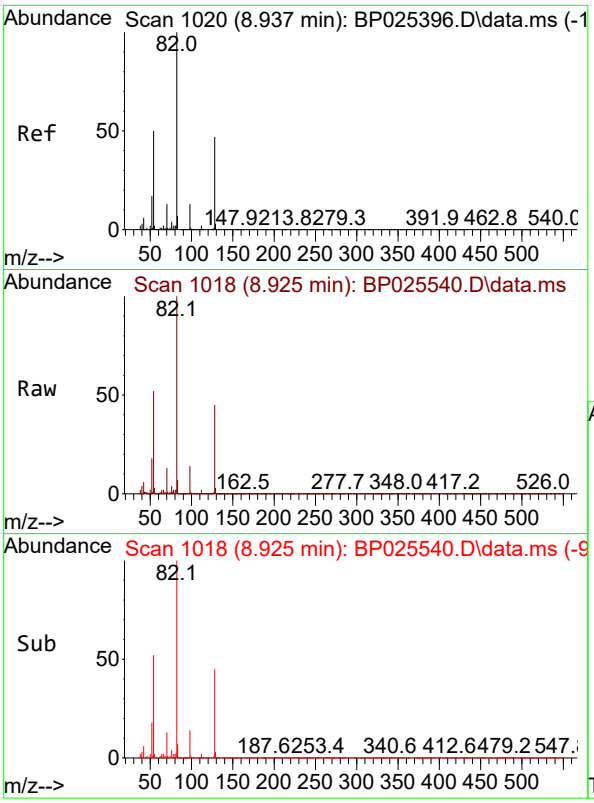


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.554 min Scan# 1295
Delta R.T. -0.006 min
Lab File: BP025540.D
Acq: 21 Aug 2025 14:56

Tgt Ion:136 Resp: 870787

Ion	Ratio	Lower	Upper
136	100		
137	10.9	9.2	13.8
54	8.3	6.0	9.0
68	5.4	4.3	6.5



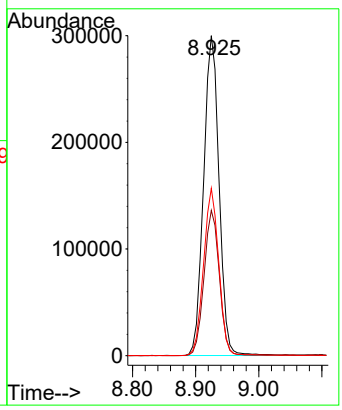


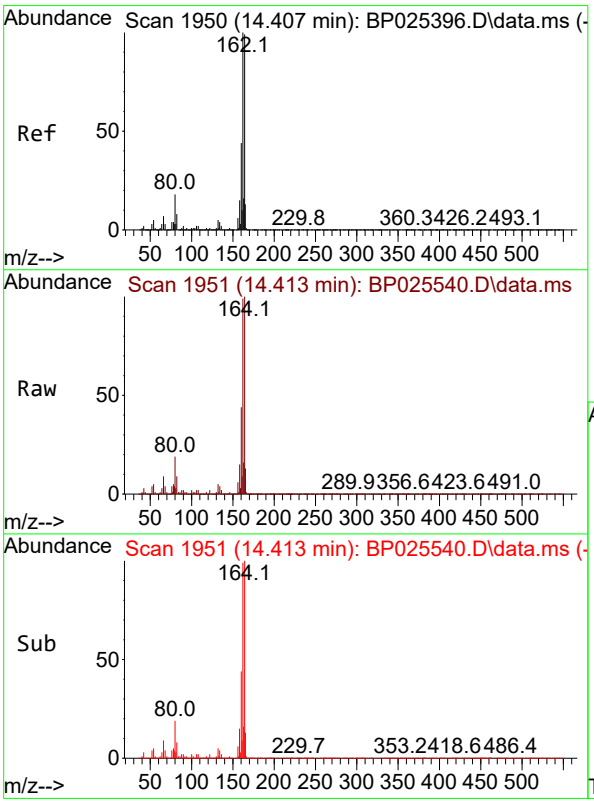
#23
Nitrobenzene-d5
Concen: 29.680 ng
RT: 8.925 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP025540.D
Acq: 21 Aug 2025 14:56

Instrument :
BNA_P
ClientSampleId :
38M-S

Tgt Ion: 82 Resp: 510918

Ion	Ratio	Lower	Upper
82	100		
128	45.4	37.7	56.5
54	52.3	39.8	59.6

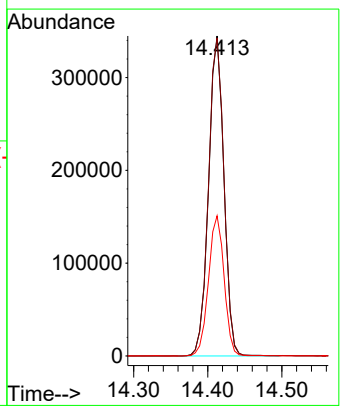


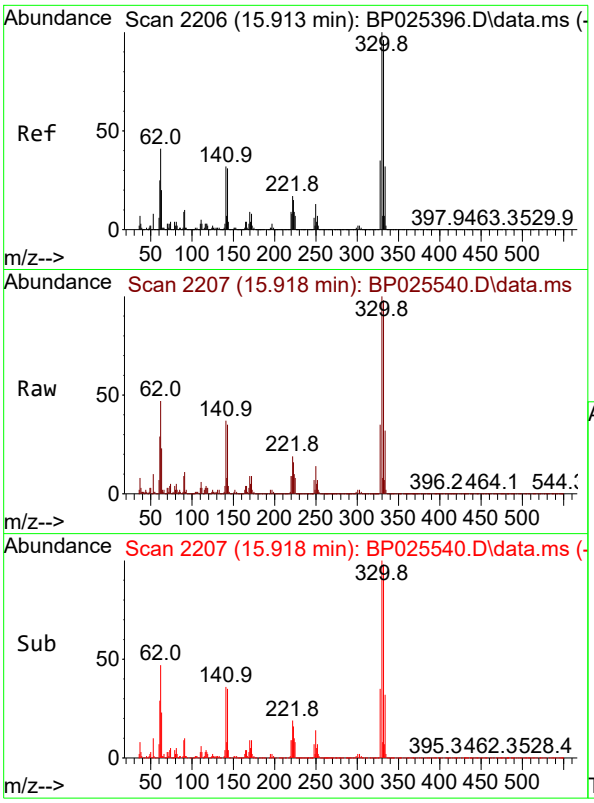


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.413 min Scan# 1951
Delta R.T. 0.006 min
Lab File: BP025540.D
Acq: 21 Aug 2025 14:56

Tgt Ion:164 Resp: 494598

Ion	Ratio	Lower	Upper
164	100		
162	99.4	81.0	121.6
160	43.8	35.4	53.2



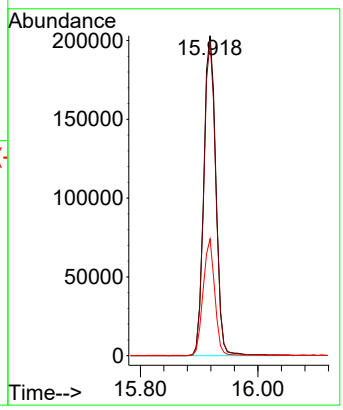


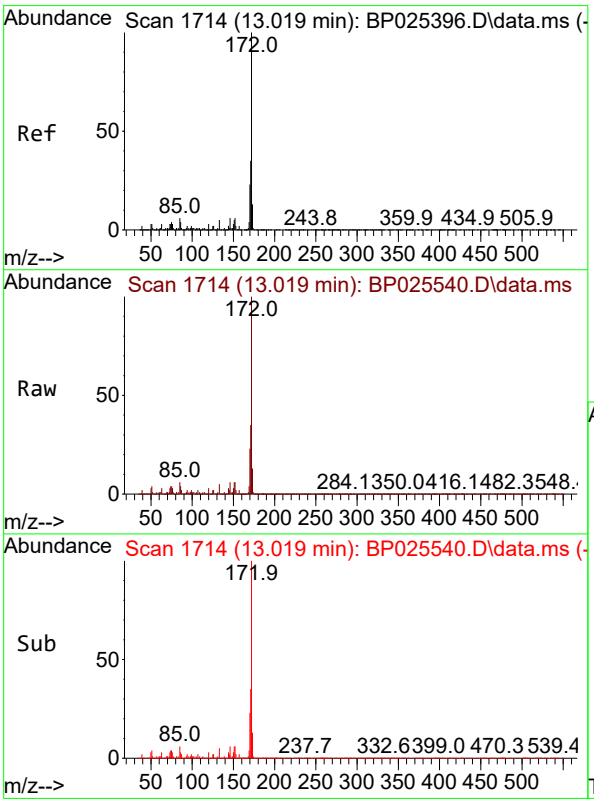
#42
2,4,6-Tribromophenol
Concen: 43.643 ng
RT: 15.918 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025540.D
Acq: 21 Aug 2025 14:56

Instrument :
BNA_P
ClientSampleId :
38M-S

Tgt Ion:330 Resp: 290548

Ion	Ratio	Lower	Upper
330	100		
332	96.9	77.3	115.9
141	34.8	26.6	39.8

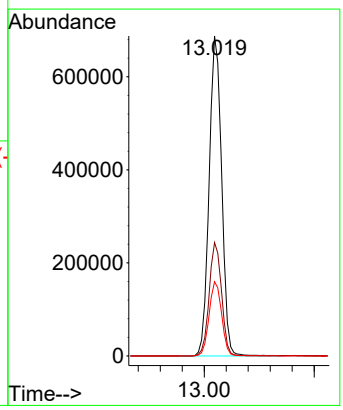


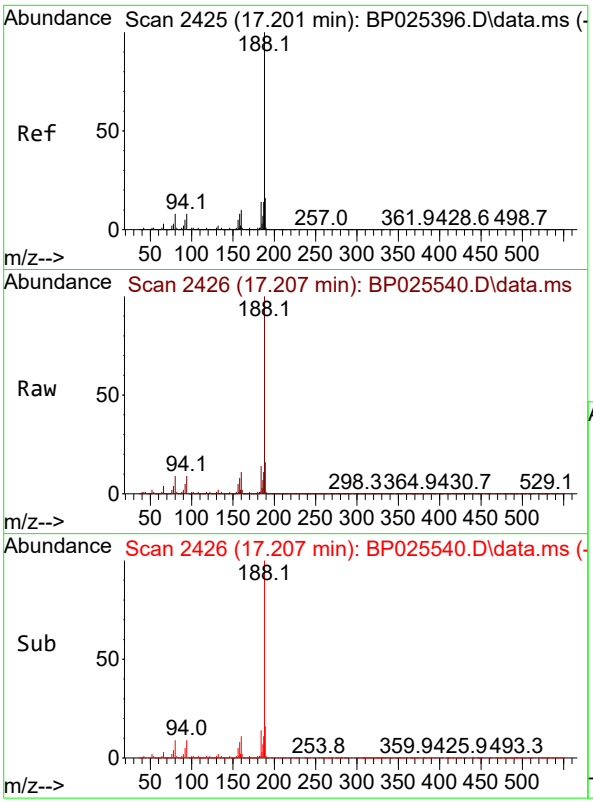


#45
2-Fluorobiphenyl
Concen: 30.033 ng
RT: 13.019 min Scan# 1714
Delta R.T. -0.000 min
Lab File: BP025540.D
Acq: 21 Aug 2025 14:56

Tgt Ion:172 Resp: 1086901

Ion	Ratio	Lower	Upper
172	100		
171	35.4	28.1	42.1
170	23.2	18.6	28.0



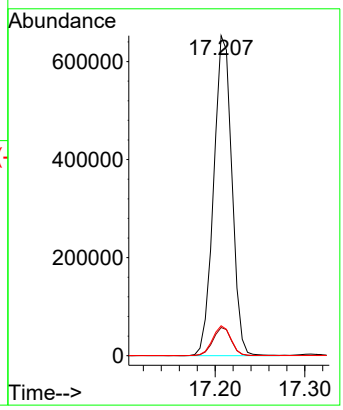


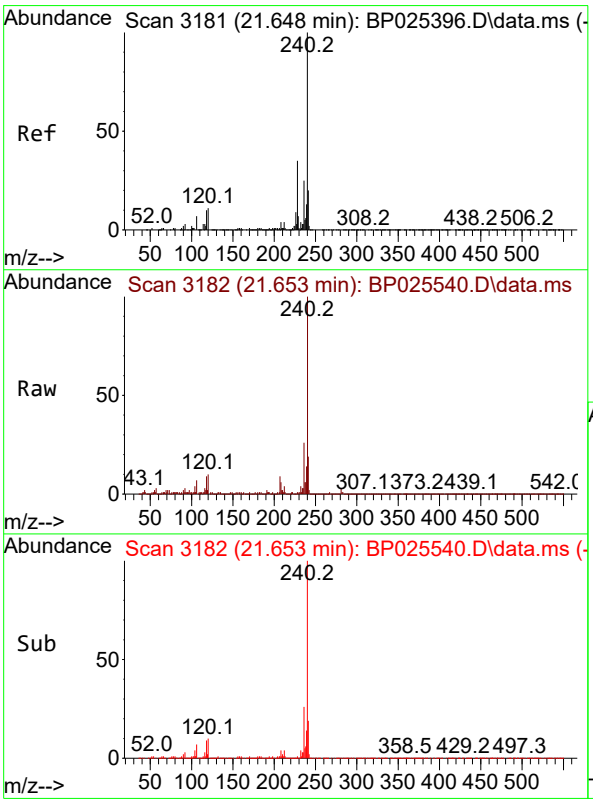
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.207 min Scan# 24
Delta R.T. 0.006 min
Lab File: BP025540.D
Acq: 21 Aug 2025 14:56

Instrument :
BNA_P
ClientSampleId :
38M-S

Tgt Ion:188 Resp: 919172

Ion	Ratio	Lower	Upper
188	100		
94	8.8	6.6	10.0
80	9.3	6.7	10.1

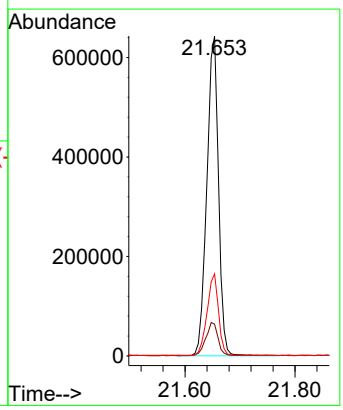


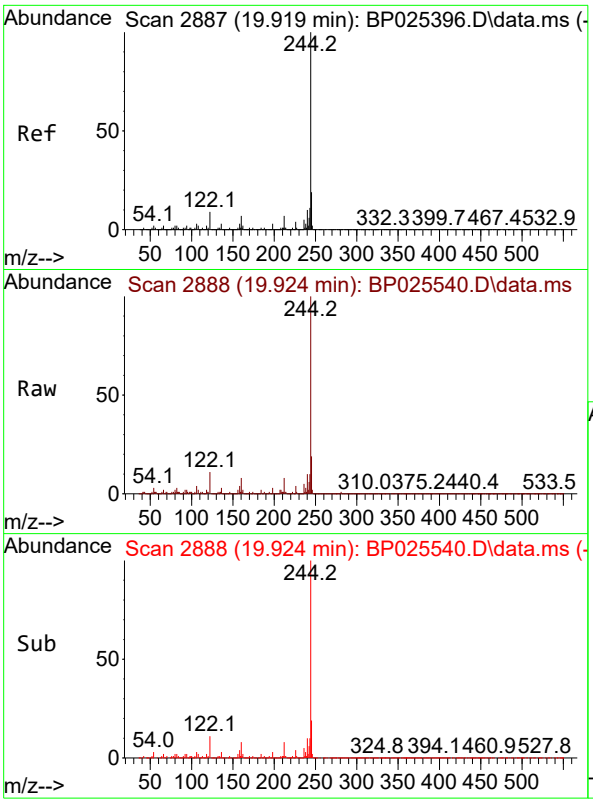


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.653 min Scan# 3182
Delta R.T. 0.006 min
Lab File: BP025540.D
Acq: 21 Aug 2025 14:56

Tgt Ion:240 Resp: 943340

Ion	Ratio	Lower	Upper
240	100		
120	9.9	8.9	13.3
236	25.7	19.8	29.8



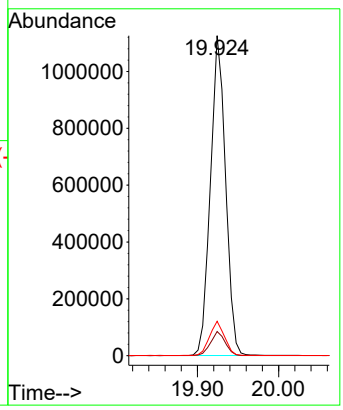


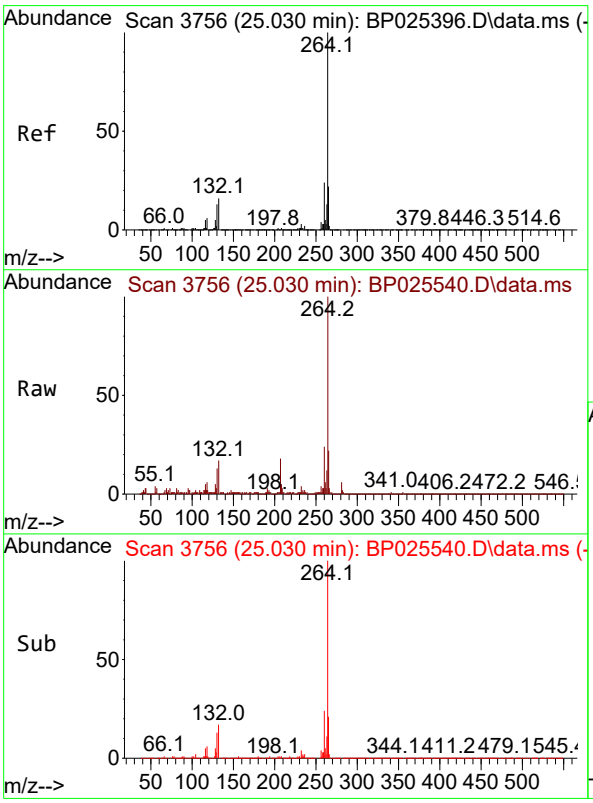
#79
Terphenyl-d14
Concen: 28.321 ng
RT: 19.924 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025540.D
Acq: 21 Aug 2025 14:56

Instrument :
BNA_P
ClientSampleId :
38M-S

Tgt Ion:244 Resp: 1460247

Ion	Ratio	Lower	Upper
244	100		
212	7.6	5.8	8.6
122	10.8	7.4	11.2

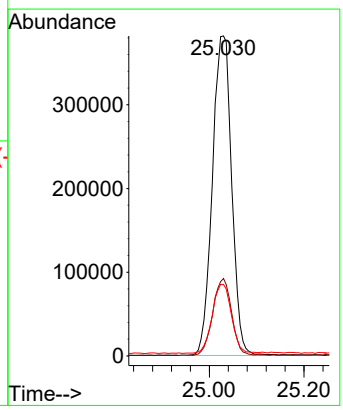




#86
Perylene-d12
Concen: 20.000 ng
RT: 25.030 min Scan# 3756
Delta R.T. -0.000 min
Lab File: BP025540.D
Acq: 21 Aug 2025 14:56

Tgt Ion:264 Resp: 1078825

Ion	Ratio	Lower	Upper
264	100		
260	24.2	19.3	28.9
265	22.3	17.4	26.0



Sample Results: **BP025540.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025540.D
Acq On : 21 Aug 2025 14:56
Operator : CG/JU
Sample : Q2819-16 2X
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
38M-S

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

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

Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BP025540.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.037	12	17	26	rVB	502014	629629	15.96%	1.810%
2	4.943	336	341	349	rVB	139823	188648	4.78%	0.542%
3	5.401	413	419	432	rBV	1457751	2122903	53.80%	6.104%
4	6.966	676	685	695	rBV	1439544	2245512	56.90%	6.456%
5	7.784	816	824	833	rBV	833678	1332069	33.76%	3.830%
6	8.925	1011	1018	1030	rBV	893673	1515648	38.41%	4.358%
7	10.554	1284	1295	1306	rBV	1017726	1780748	45.12%	5.120%
8	13.019	1706	1714	1727	rBV	2014663	3166961	80.25%	9.106%
9	14.248	1917	1923	1932	rBV2	35979	71127	1.80%	0.205%
10	14.413	1942	1951	1964	rBV	1441052	2121854	53.77%	6.101%
11	14.519	1964	1969	1980	rVV	206835	307275	7.79%	0.883%
12	15.789	2179	2185	2191	rBV	343469	478353	12.12%	1.375%
13	15.918	2201	2207	2216	rBV	1576030	2245210	56.89%	6.456%
14	16.366	2279	2283	2287	rBV2	33361	44716	1.13%	0.129%
15	16.771	2348	2352	2359	rVB	60662	95616	2.42%	0.275%
16	16.948	2376	2382	2393	rBV	578400	887922	22.50%	2.553%
17	17.054	2395	2400	2401	rVV	60204	81794	2.07%	0.235%
18	17.077	2401	2404	2411	rVB	95702	152192	3.86%	0.438%
19	17.207	2420	2426	2432	rBV2	1587671	2276970	57.70%	6.547%
20	17.907	2542	2545	2549	rBV5	21756	39519	1.00%	0.114%
21	18.148	2581	2586	2594	rBV	432317	747628	18.95%	2.150%
22	18.801	2694	2697	2705	rVB2	73741	135468	3.43%	0.390%
23	18.930	2715	2719	2726	rBV	510090	703884	17.84%	2.024%
24	18.995	2727	2730	2732	rBV3	104738	131742	3.34%	0.379%
25	19.330	2783	2787	2791	rBV	171156	262256	6.65%	0.754%
26	19.471	2807	2811	2817	rBV	241026	456637	11.57%	1.313%
27	19.624	2835	2837	2840	rVB2	90035	87308	2.21%	0.251%
28	19.707	2848	2851	2855	rVB	118426	148311	3.76%	0.426%
29	19.848	2872	2875	2878	rBV	99877	137429	3.48%	0.395%
30	19.924	2883	2888	2893	rVB	3025518	3946275	100.00%	11.347%
31	20.512	2985	2988	2991	rVB	173733	195729	4.96%	0.563%
32	21.318	3121	3125	3130	rBV2	282263	442607	11.22%	1.273%
33	21.571	3165	3168	3175	rVB	214645	276494	7.01%	0.795%
34	21.653	3176	3182	3187	rVB	1681660	2512315	63.66%	7.224%
35	25.030	3748	3756	3764	rBV	995281	2810610	71.22%	8.081%

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025540.D
Acq On : 21 Aug 2025 14:56
Operator : CG/JU
Sample : Q2819-16 2X
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
38M-S

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

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

Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Sum of corrected areas: 34779359

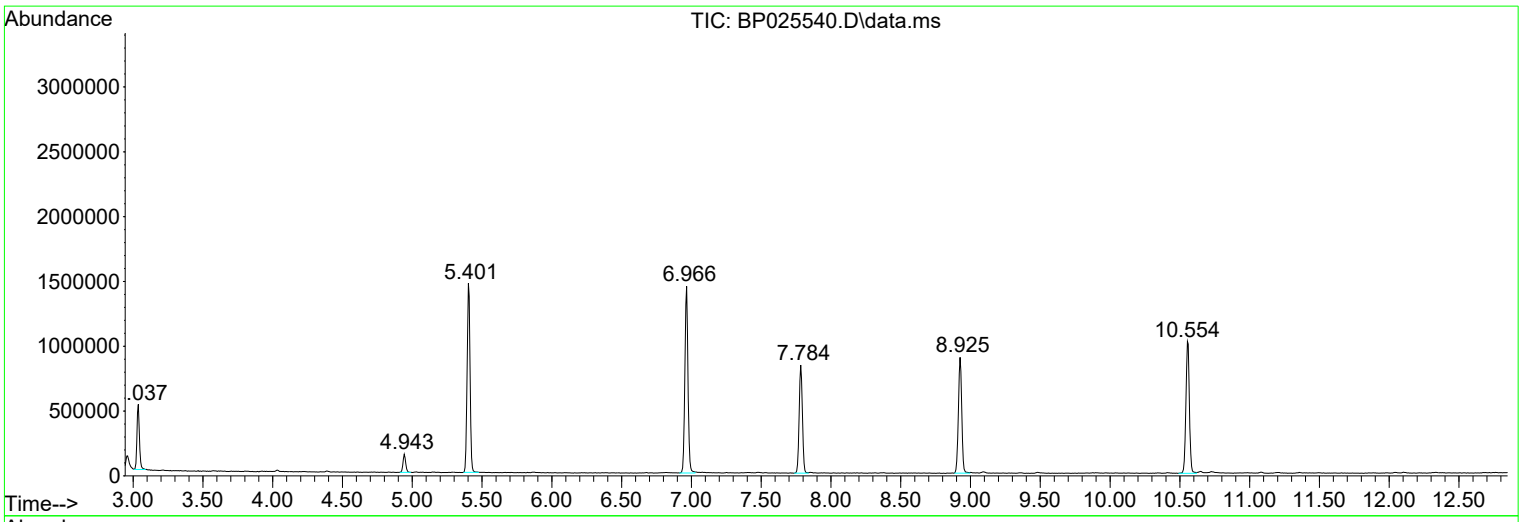
Sample Results: **BP025540.D**

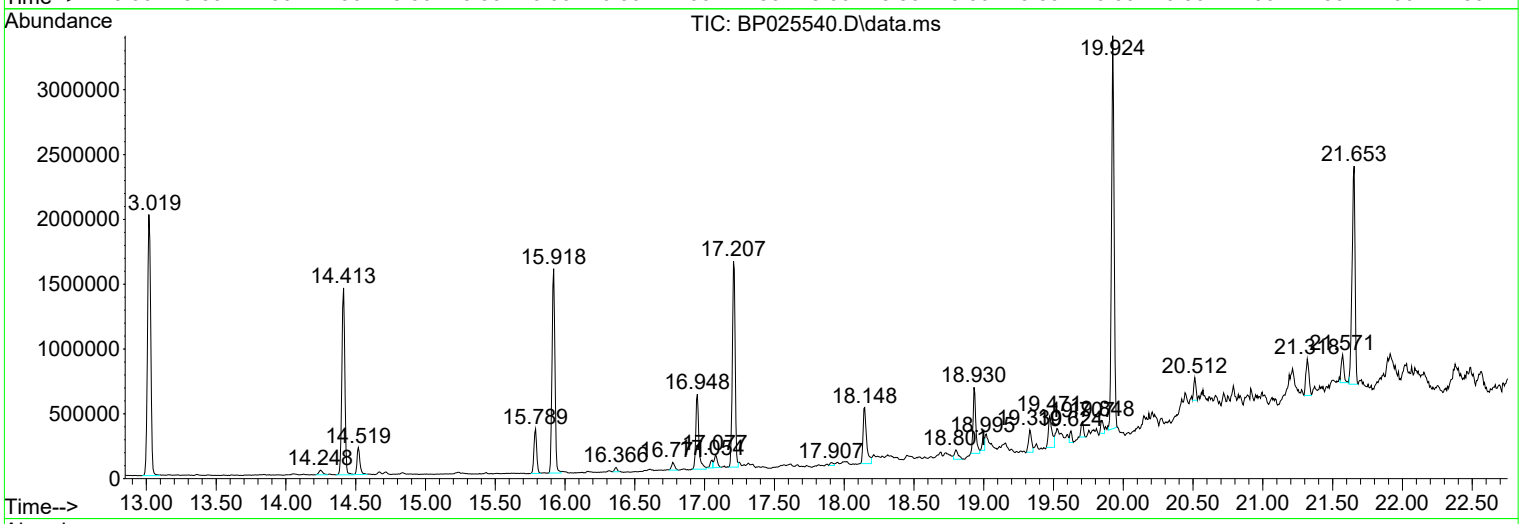
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025540.D
Acq On : 21 Aug 2025 14:56
Operator : CG/JU
Sample : Q2819-16 2X
Misc :
ALS Vial : 30 Sample Multiplier: 1

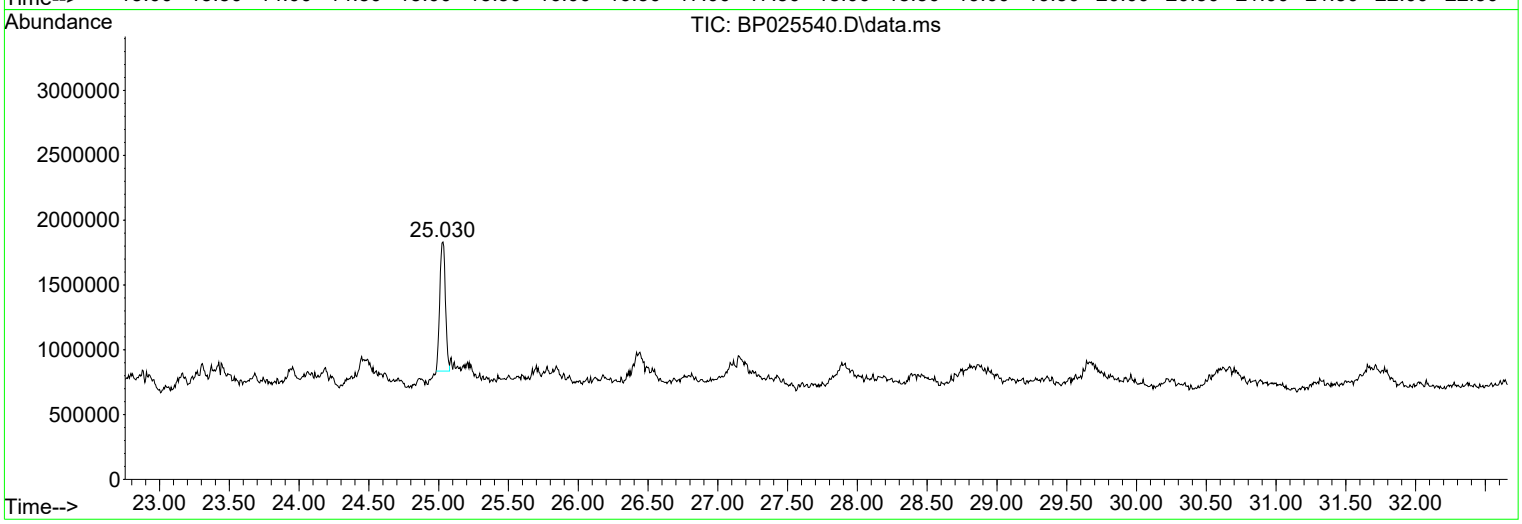
Instrument :
BNA_P
ClientSampleId :
38M-S

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.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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Data File : BP025540.D
Acq On : 21 Aug 2025 14:56
Operator : CG/JU
Sample : Q2819-16 2X
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
38M-S

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

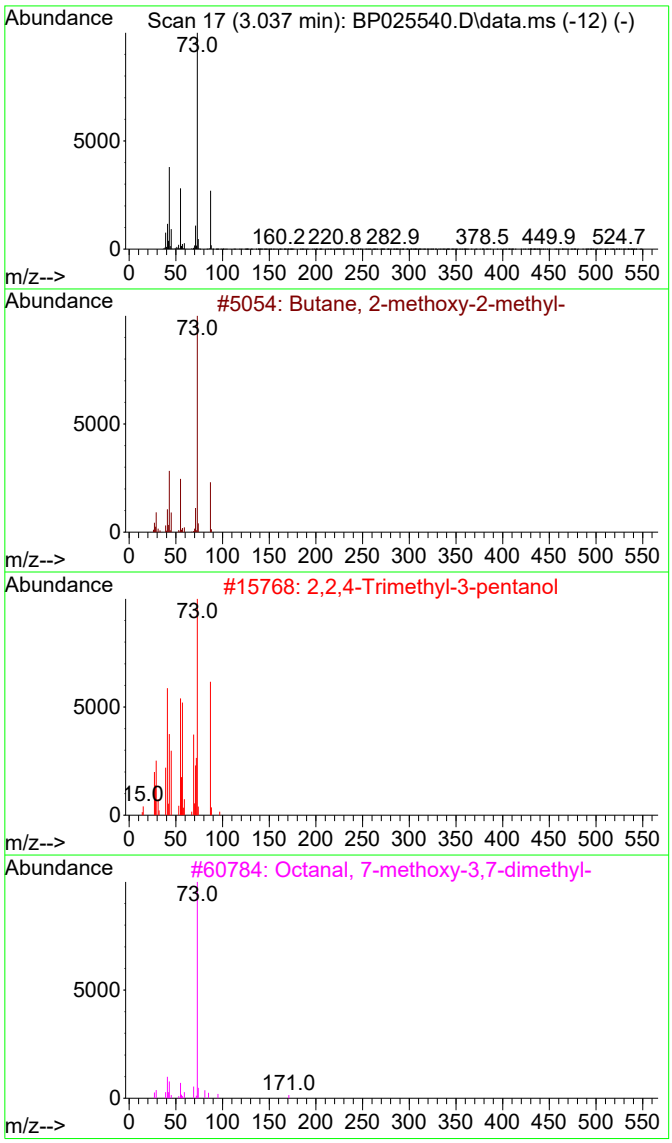
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

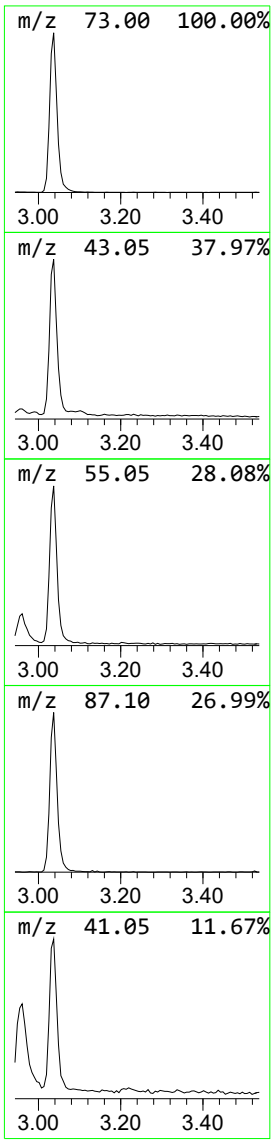
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.037	9.45 ng	629629	1,4-Dichlorobenzene-d4	7.784

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	17
4	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	12
5	N-Ethylformamide	73	C3H7NO	000627-45-2	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025540.D
Acq On : 21 Aug 2025 14:56
Operator : CG/JU
Sample : Q2819-16 2X
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
38M-S

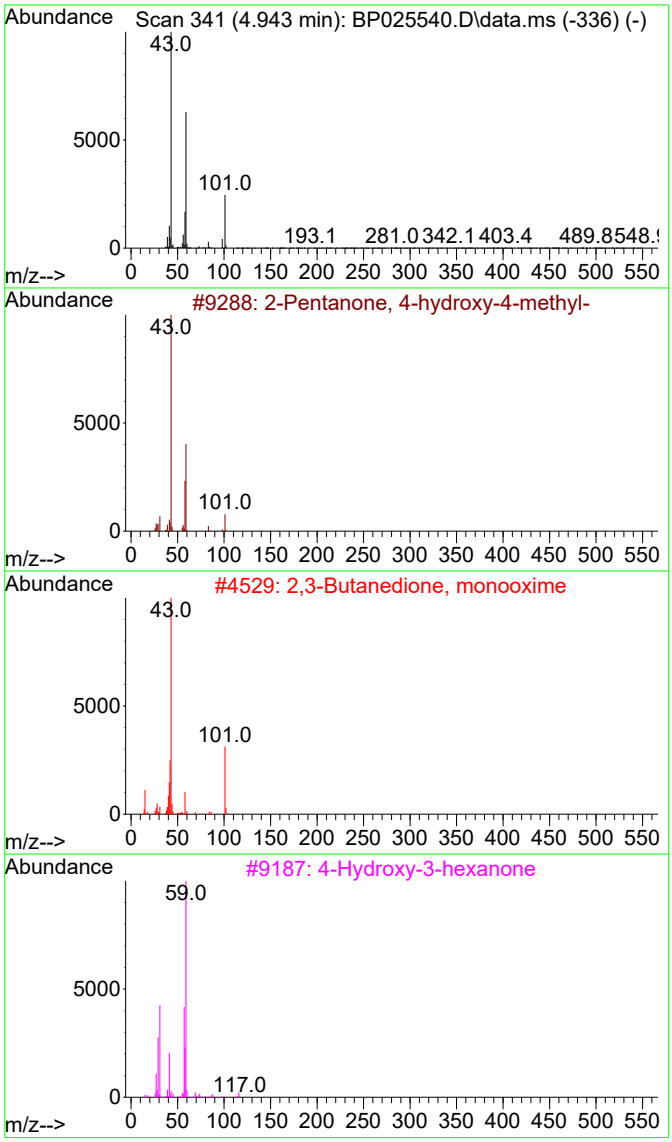
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

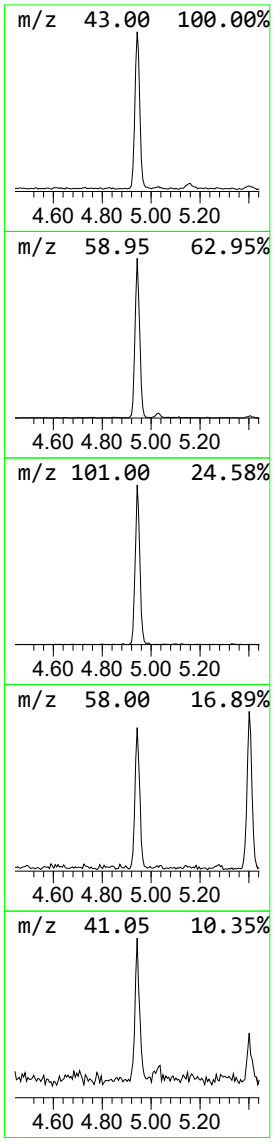
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.943	2.83 ng	188648	1,4-Dichlorobenzene-d4	7.784

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	56
2	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	25
3	4-Hydroxy-3-hexanone	116	C6H12O2	004984-85-4	17
4	2,5,8,11-Tetraoxadodecane	178	C8H18O4	000112-49-2	17
5	(+-)-4-Amino-4,5-dihydro-2(3H)-f...	101	C4H7NO2	016504-58-8	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025540.D
Acq On : 21 Aug 2025 14:56
Operator : CG/JU
Sample : Q2819-16 2X
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
38M-S

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

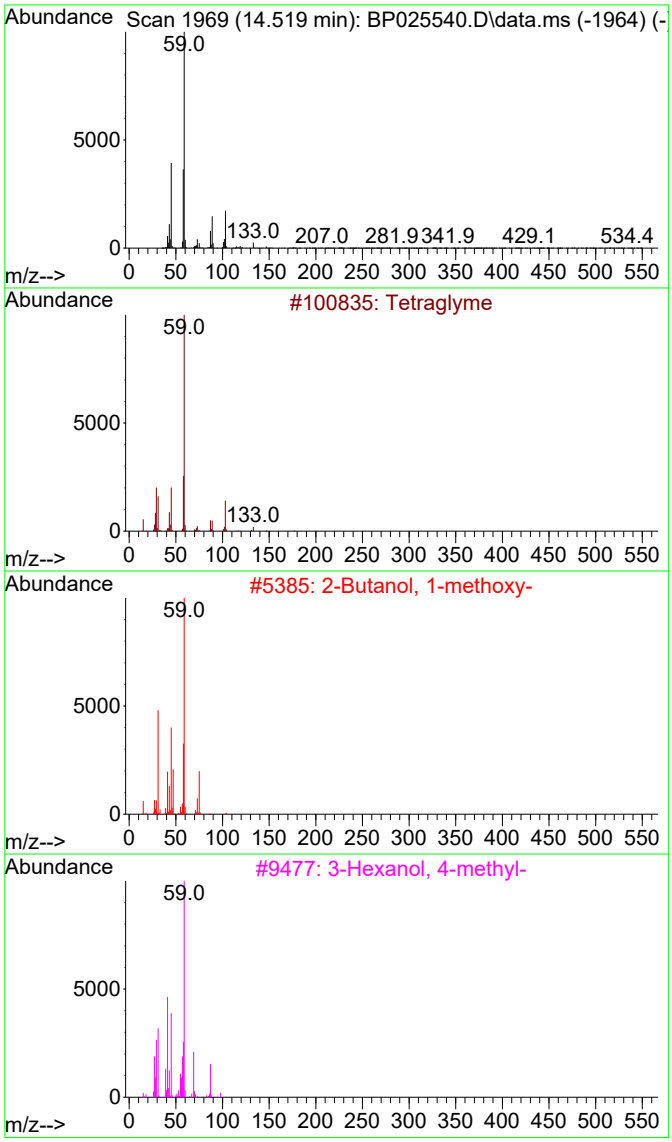
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

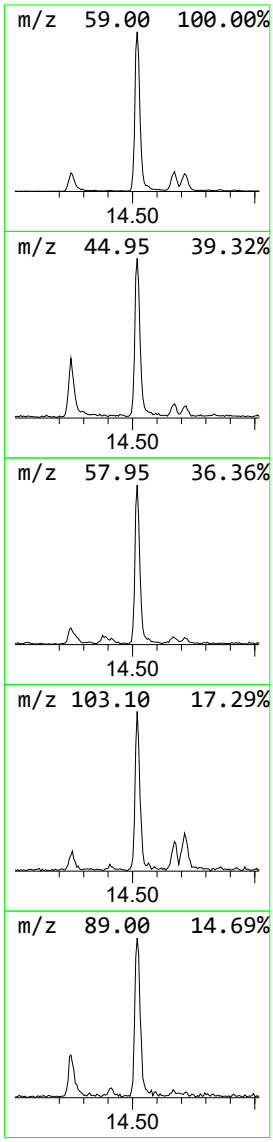
****

Peak Number 3 Tetraglyme Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.519	2.90 ng	307275	Acenaphthene-d10	14.413

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetraglyme	222	C10H22O5	000143-24-8	72
2	2-Butanol, 1-methoxy-	104	C5H12O2	053778-73-7	64
3	3-Hexanol, 4-methyl-	116	C7H16O	000615-29-2	64
4	2,5,8,11-Tetraoxadodecane	178	C8H18O4	000112-49-2	59
5	Methyl 2-(2-(2-methoxyethoxy)eth...	192	C8H16O5	1000366-88-2	56





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Data File : BP025540.D
Acq On : 21 Aug 2025 14:56
Operator : CG/JU
Sample : Q2819-16 2X
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
38M-S

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

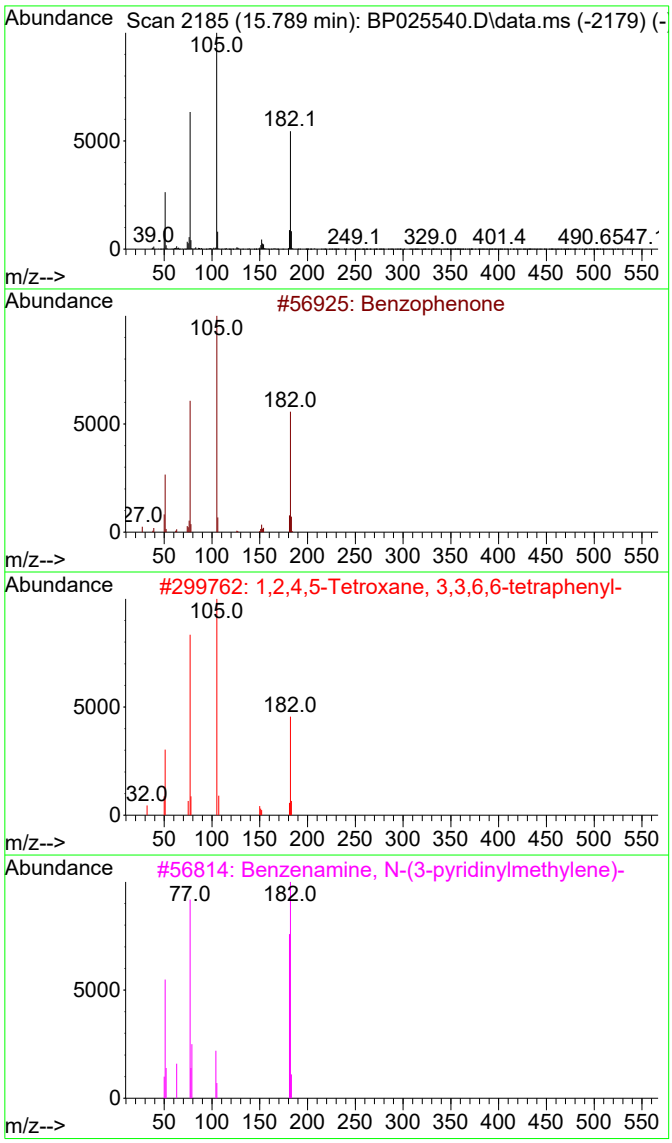
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

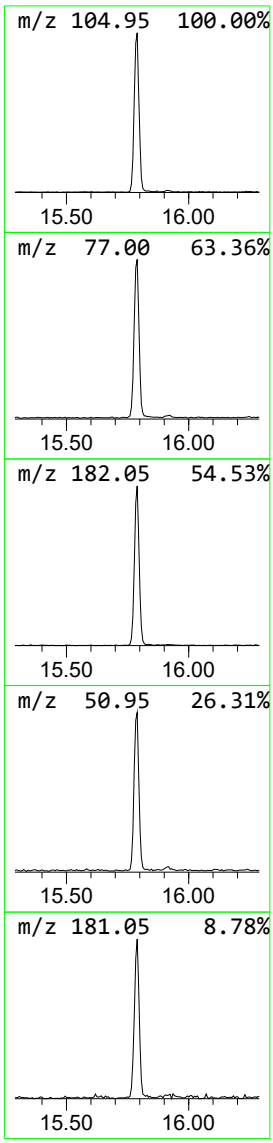
****

Peak Number 4 Benzophenone Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.789	4.51 ng	478353	Acenaphthene-d10	14.413

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	64
3	Benzenamine, N-(3-pyridinylmethy...	182	C12H10N2	029722-97-2	53
4	1,2,4-Trioxolane, 3,3,5-triphenyl-	304	C20H16O3	023246-12-0	45
5	2,5-Dimethyl-7,7-diphenyl-3-aza-...	279	C18H17NO2	078950-91-1	38





Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025540.D
Acq On : 21 Aug 2025 14:56
Operator : CG/JU
Sample : Q2819-16 2X
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
38M-S

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

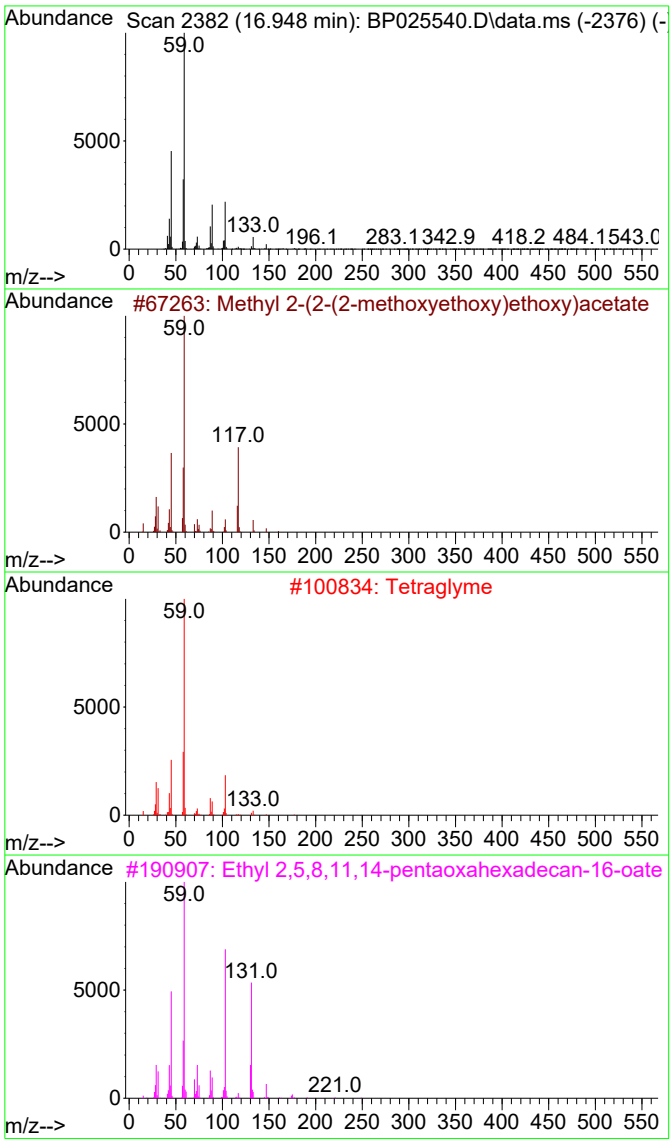
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

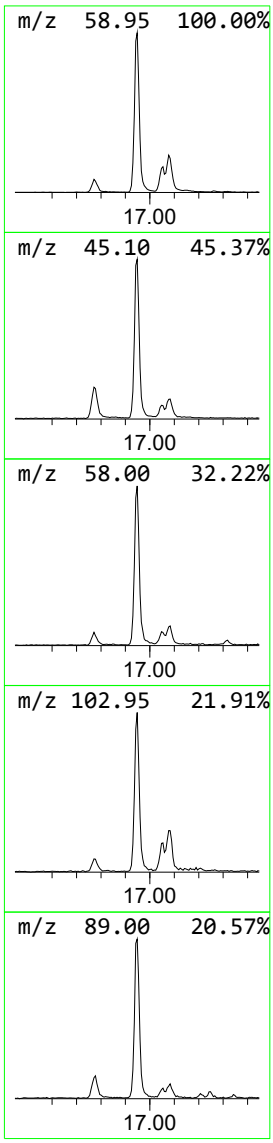
****

Peak Number 5 Methyl 2-(2-(2-methoxyethox... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.948	7.80 ng	887922	Phenanthrene-d10	17.207

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Methyl 2-(2-(2-methoxyethoxy)eth...	192	C8H16O5	1000366-88-2	64
2	Tetraglyme	222	C10H22O5	000143-24-8	64
3	Ethyl 2,5,8,11,14-pentaoxahexade...	294	C13H26O7	1000366-80-7	59
4	2,5,8,11-Tetraoxadodecane	178	C8H18O4	000112-49-2	59
5	Hexaethylene glycol dimethyl ether	310	C14H30O7	001072-40-8	58





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Data File : BP025540.D
Acq On : 21 Aug 2025 14:56
Operator : CG/JU
Sample : Q2819-16 2X
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
38M-S

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

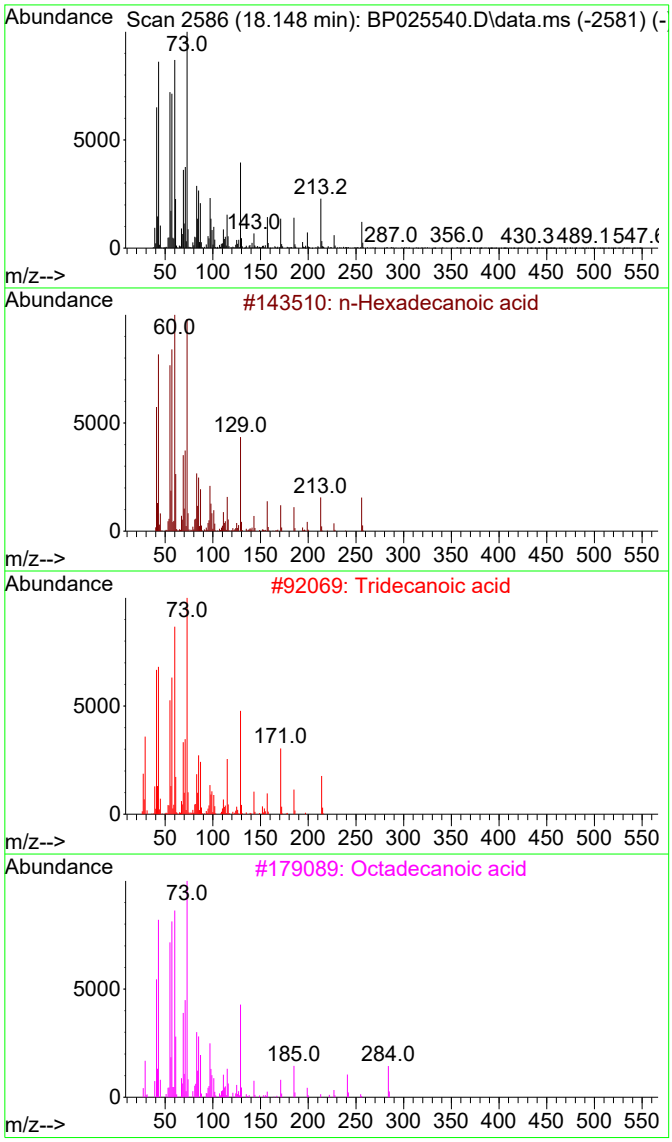
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

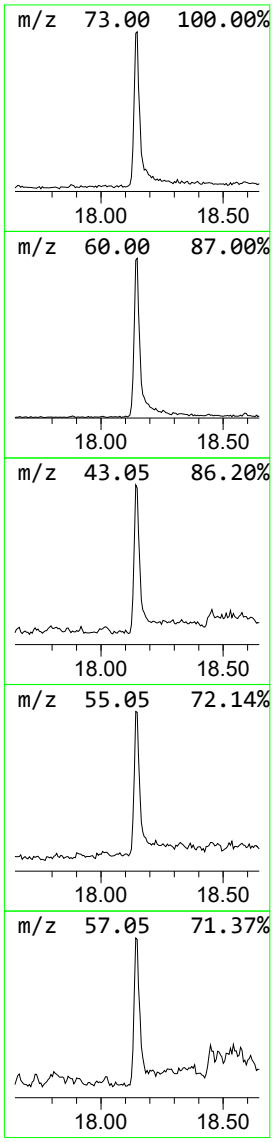
****

Peak Number 6 n-Hexadecanoic acid Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.148	6.57 ng	747628	Phenanthrene-d10	17.207

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	Octadecanoic acid	284	C18H36O2	000057-11-4	93
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	91
5	Pentadecanoic acid	242	C15H30O2	001002-84-2	91





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Acq On    : 21 Aug 2025  14:56
Operator  : CG/JU
Sample    : Q2819-16 2X
Misc      :
ALS Vial  : 30   Sample Multiplier: 1

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.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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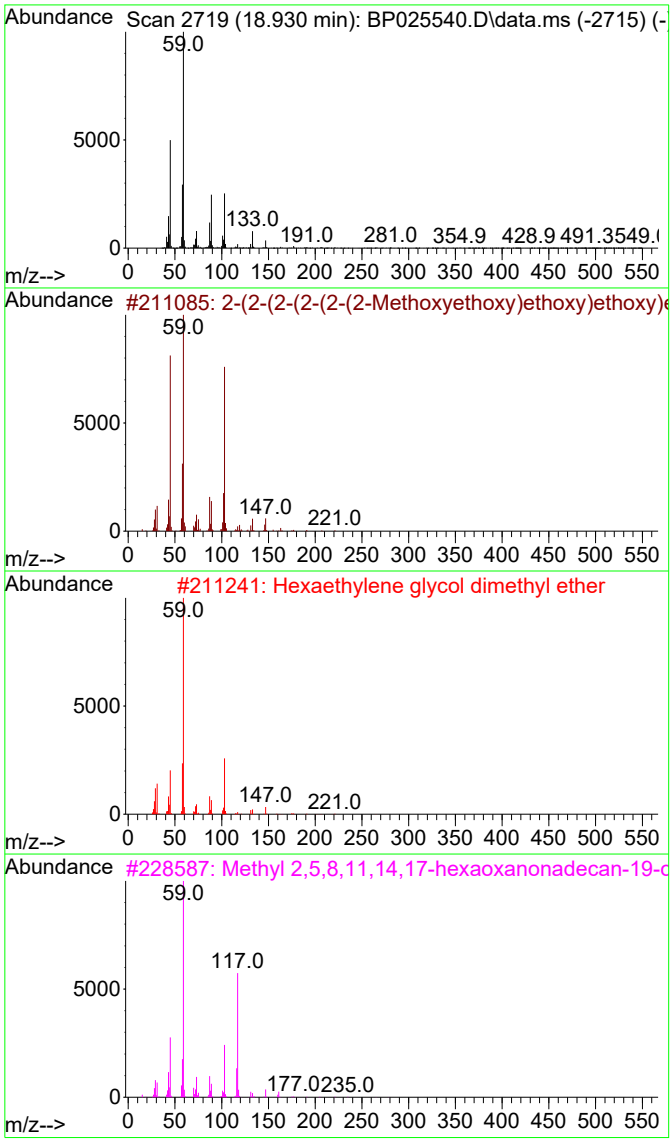
Instrument :
BNA_P
ClientSampleId :
38M-S

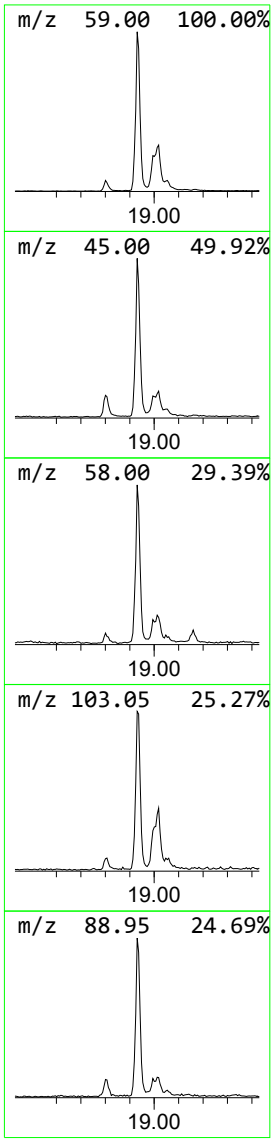
****

Peak Number 7 2-(2-(2-(2-(2-Methoxyeth... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.930	6.18 ng	703884	Phenanthrene-d10	17.207

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-(2-(2-(2-(2-(2-Methoxyethoxy)e...	310	C13H26O8	016142-03-3	72
2	Hexaethylene glycol dimethyl ether	310	C14H30O7	001072-40-8	72
3	Methyl 2,5,8,11,14,17-hexaoxanon...	324	C14H28O8	1000366-81-4	59
4	Ethyl 2-(2-(2-methoxyethoxy)etho...	206	C9H18O5	1000366-89-0	59
5	2,5,8,11,14,17-Hexaoxaoctadecane	266	C12H26O6	001191-87-3	59





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Acq On : 21 Aug 2025 14:56
Operator : CG/JU
Sample : Q2819-16 2X
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
38M-S

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

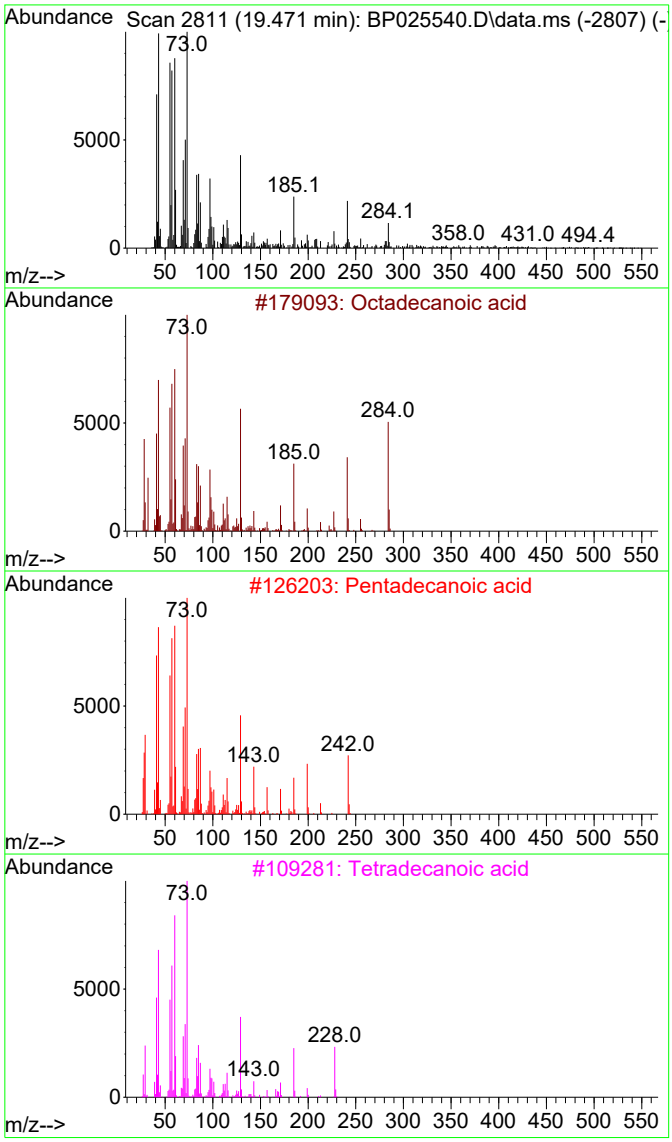
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

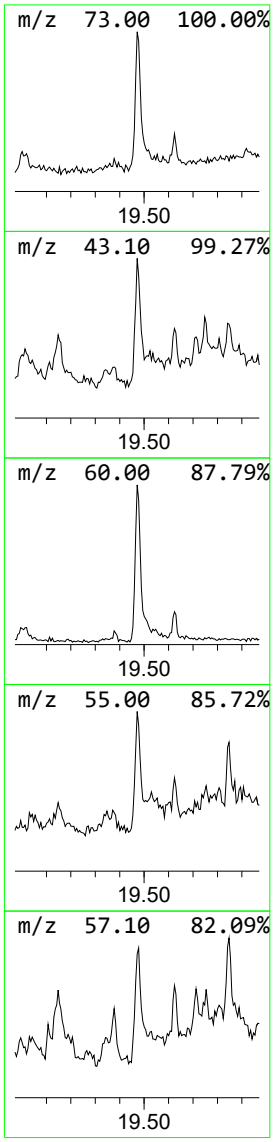
****

Peak Number 9 Octadecanoic acid Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.471	3.64 ng	456637	Chrysene-d12	21.654

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanoic acid	284	C18H36O2	000057-11-4	99
2	Pentadecanoic acid	242	C15H30O2	001002-84-2	93
3	Tetradecanoic acid	228	C14H28O2	000544-63-8	74
4	n-Decanoic acid	172	C10H20O2	000334-48-5	70
5	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	64





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Acq On : 21 Aug 2025 14:56
Operator : CG/JU
Sample : Q2819-16 2X
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
38M-S

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

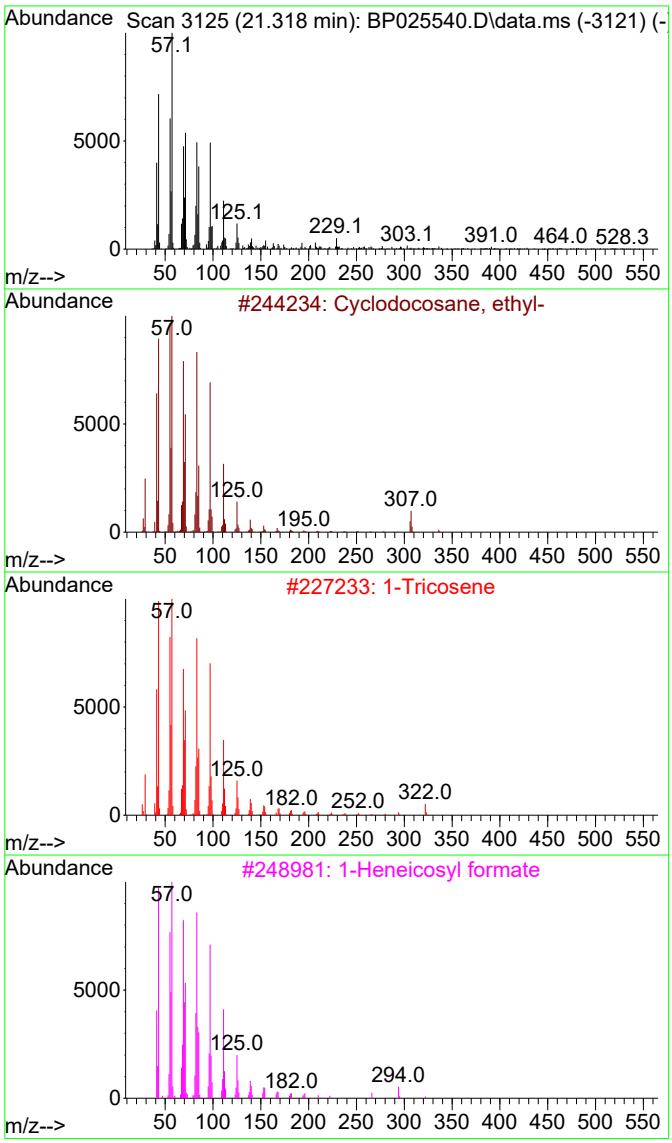
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

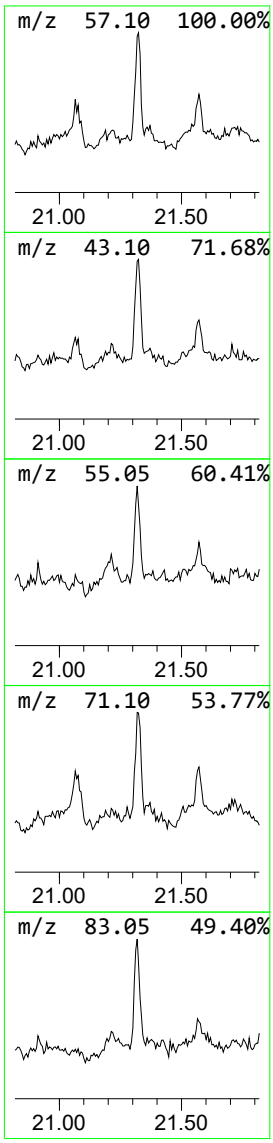
****

Peak Number 10 Cyclodocosane, ethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.318	3.52 ng	442607	Chrysene-d12	21.654

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclodocosane, ethyl-	336	C24H48	1000151-22-6	97
2	1-Tricosene	322	C23H46	018835-32-0	92
3	1-Heneicosyl formate	340	C22H44O2	077899-03-7	90
4	Oxalic acid, isobutyl hexadecyl ...	370	C22H42O4	1000309-38-1	87
5	Hexacosyl heptafluorobutyrate	578	C30H53F7O2	1000351-83-3	87





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Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025540.D
Acq On    : 21 Aug 2025  14:56
Operator  : CG/JU
Sample    : Q2819-16 2X
Misc      :
ALS Vial  : 30   Sample Multiplier: 1

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

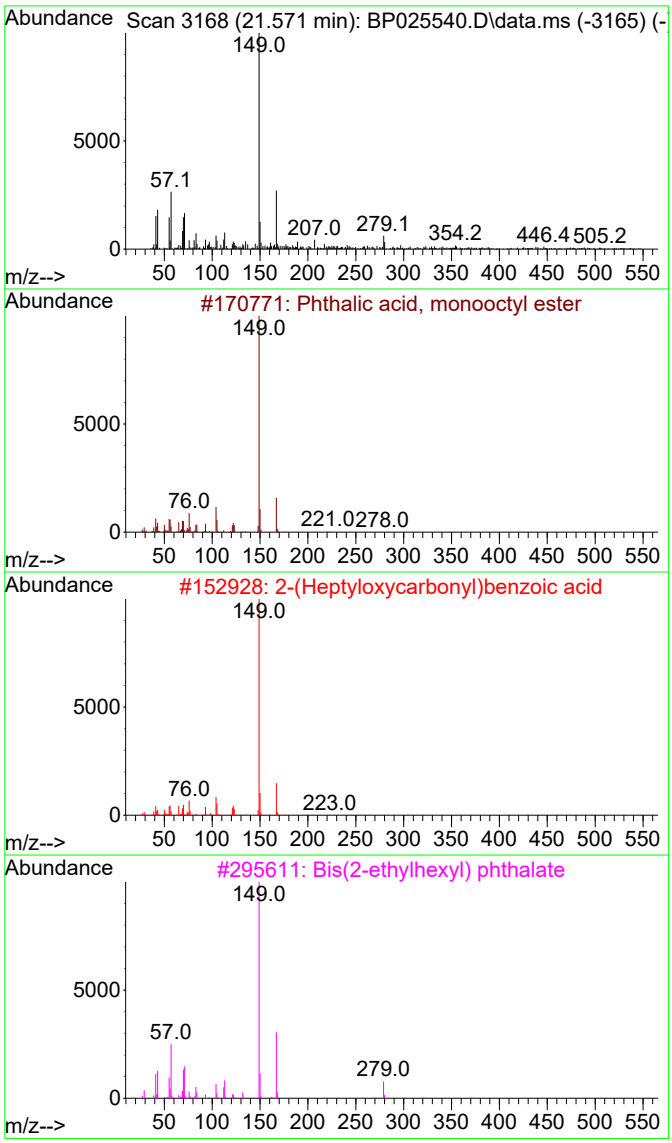
Instrument :
BNA_P
ClientSampleId :
38M-S

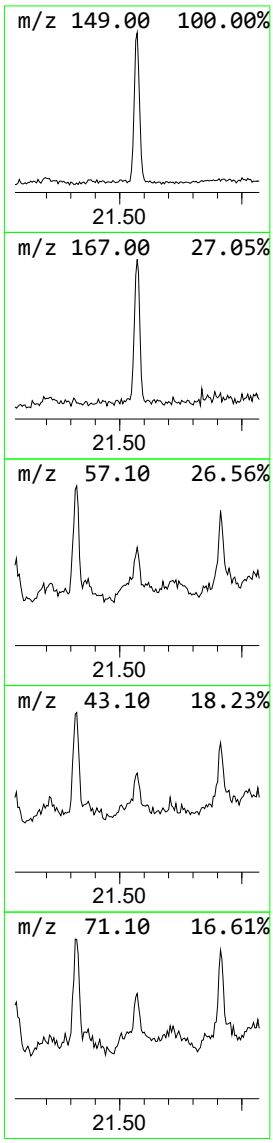
****

Peak Number 11 Phthalic acid, monooctyl ester Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.571	2.20 ng	276494	Chrysene-d12	21.654

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phthalic acid, monooctyl ester	278	C16H22O4	005393-19-1	81
2	2-(Heptyloxycarbonyl)benzoic acid	264	C15H20O4	024539-58-0	74
3	Bis(2-ethylhexyl) phthalate	390	C24H38O4	000117-81-7	74
4	Phthalic acid, isohexyl 4-methyl...	334	C20H30O4	1010356-87-5	72
5	Phthalic acid, 2,4,4-trimethylpe...	432	C27H44O4	1000377-77-7	68





Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025540.D
Acq On : 21 Aug 2025 14:56
Operator : CG/JU
Sample : Q2819-16 2X
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
38M-S

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.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...	3.037	9.4	ng	629629	1	7.784	1332070	20.0
2-Pentanone, 4-...	4.943	2.8	ng	188648	1	7.784	1332070	20.0
Tetraglyme	14.519	2.9	ng	307275	3	14.413	2121850	20.0
Benzophenone	15.789	4.5	ng	478353	3	14.413	2121850	20.0
Methyl 2-(2-(2-...	16.948	7.8	ng	887922	4	17.207	2276970	20.0
n-Hexadecanoic ...	18.148	6.6	ng	747628	4	17.207	2276970	20.0
2-(2-(2-(2-(2-(...	18.930	6.2	ng	703884	4	17.207	2276970	20.0
Octadecanoic acid	19.471	3.6	ng	456637	5	21.654	2512320	20.0
Cyclodocosane, ...	21.318	3.5	ng	442607	5	21.654	2512320	20.0
Phthalic acid, ...	21.571	2.2	ng	276494	5	21.654	2512320	20.0

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/06/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	38M-N	SDG No.:	Q2819
Lab Sample ID:	Q2819-17	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	87.5
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP025519.D	1	08/15/25 08:25	08/20/25 23:13	PB169259

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
100-52-7	Benzaldehyde	310	U	180	310	380	ug/Kg
108-95-2	Phenol	150	U	25.2	150	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	150	U	27.7	150	190	ug/Kg
95-57-8	2-Chlorophenol	150	U	27.8	150	190	ug/Kg
95-48-7	2-Methylphenol	150	U	34.1	150	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	150	U	42.7	150	190	ug/Kg
98-86-2	Acetophenone	150	U	33.6	150	190	ug/Kg
65794-96-9	3+4-Methylphenols	310	U	46.8	310	380	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	91.2	U	54.0	91.2	91.2	ug/Kg
67-72-1	Hexachloroethane	150	U	20.1	150	190	ug/Kg
98-95-3	Nitrobenzene	150	U	20.9	150	190	ug/Kg
78-59-1	Isophorone	150	U	37.4	150	190	ug/Kg
88-75-5	2-Nitrophenol	150	U	66.3	150	190	ug/Kg
105-67-9	2,4-Dimethylphenol	150	U	73.8	150	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	150	U	35.1	150	190	ug/Kg
120-83-2	2,4-Dichlorophenol	150	U	32.2	150	190	ug/Kg
91-20-3	Naphthalene	150	U	25.9	150	190	ug/Kg
106-47-8	4-Chloroaniline	150	U	40.3	150	190	ug/Kg
87-68-3	Hexachlorobutadiene	150	U	28.8	150	190	ug/Kg
105-60-2	Caprolactam	310	U	59.4	310	380	ug/Kg
59-50-7	4-Chloro-3-methylphenol	150	U	32.7	150	190	ug/Kg
91-57-6	2-Methylnaphthalene	150	U	29.2	150	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	310	U	130	310	380	ug/Kg
88-06-2	2,4,6-Trichlorophenol	150	U	22.6	150	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	150	U	33.2	150	190	ug/Kg
92-52-4	1,1-Biphenyl	150	U	24.8	150	190	ug/Kg
91-58-7	2-Chloronaphthalene	150	U	25.6	150	190	ug/Kg
88-74-4	2-Nitroaniline	150	U	54.8	150	190	ug/Kg
131-11-3	Dimethylphthalate	150	U	30.9	150	190	ug/Kg

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Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/06/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	38M-N	SDG No.:	Q2819
Lab Sample ID:	Q2819-17	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	87.5
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP025519.D	1	08/15/25 08:25	08/20/25 23:13	PB169259

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	150	U	32.9	150	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	150	U	38.3	150	190	ug/Kg
99-09-2	3-Nitroaniline	150	U	52.4	150	190	ug/Kg
83-32-9	Acenaphthene	150	U	24.3	150	190	ug/Kg
51-28-5	2,4-Dinitrophenol	310	U	260	310	380	ug/Kg
100-02-7	4-Nitrophenol	310	U	120	310	380	ug/Kg
132-64-9	Dibenzofuran	150	U	25.9	150	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	150	U	57.1	150	190	ug/Kg
84-66-2	Diethylphthalate	150	U	32.2	150	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	150	U	30.4	150	190	ug/Kg
86-73-7	Fluorene	150	U	28.8	150	190	ug/Kg
100-01-6	4-Nitroaniline	150	U	73.2	150	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	310	U	120	310	380	ug/Kg
86-30-6	n-Nitrosodiphenylamine	150	U	37.5	150	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	150	U	31.7	150	190	ug/Kg
118-74-1	Hexachlorobenzene	150	U	28.8	150	190	ug/Kg
1912-24-9	Atrazine	150	U	38.7	150	190	ug/Kg
87-86-5	Pentachlorophenol	310	U	58.5	310	380	ug/Kg
85-01-8	Phenanthrene	150	U	23.8	150	190	ug/Kg
120-12-7	Anthracene	150	U	37.9	150	190	ug/Kg
86-74-8	Carbazole	150	U	35.6	150	190	ug/Kg
84-74-2	Di-n-butylphthalate	150	U	54.6	150	190	ug/Kg
206-44-0	Fluoranthene	150	U	34.2	150	190	ug/Kg
129-00-0	Pyrene	150	U	41.0	150	190	ug/Kg
85-68-7	Butylbenzylphthalate	150	U	81.4	150	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	310	U	41.8	310	380	ug/Kg
56-55-3	Benzo(a)anthracene	150	U	26.2	150	190	ug/Kg
218-01-9	Chrysene	150	U	22.7	150	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	150	U	67.5	150	190	ug/Kg
117-84-0	Di-n-octyl phthalate	310	U	98.9	310	380	ug/Kg
205-99-2	Benzo(b)fluoranthene	150	U	21.6	150	190	ug/Kg

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Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/06/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	38M-N	SDG No.:	Q2819
Lab Sample ID:	Q2819-17	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	87.5
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP025519.D	1	08/15/25 08:25	08/20/25 23:13	PB169259

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	150	U	25.5	150	190	ug/Kg
50-32-8	Benzo(a)pyrene	150	U	33.6	150	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	150	U	33.2	150	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	150	U	31.2	150	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	150	U	29.3	150	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	150	U	29.2	150	190	ug/Kg
123-91-1	1,4-Dioxane	150	U	51.5	150	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	150	U	31.2	150	190	ug/Kg
SURROGATES							
367-12-4	2-Fluorophenol	110		35 - 115		73%	SPK: 150
13127-88-3	Phenol-d6	108		34 - 127		72%	SPK: 150
4165-60-0	Nitrobenzene-d5	71.1		37 - 122		71%	SPK: 100
321-60-8	2-Fluorobiphenyl	60.9		44 - 115		61%	SPK: 100
118-79-6	2,4,6-Tribromophenol	103		39 - 132		69%	SPK: 150
1718-51-0	Terphenyl-d14	62.6		54 - 127		63%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	198000	7.784				
1146-65-2	Naphthalene-d8	775000	10.555				
15067-26-2	Acenaphthene-d10	494000	14.401				
1517-22-2	Phenanthrene-d10	941000	17.201				
1719-03-5	Chrysene-d12	881000	21.636				
1520-96-3	Perylene-d12	996000	25.001				
TENTATIVE IDENTIFIED COMPOUNDS							
000994-05-8	Butane, 2-methoxy-2-methyl-	1100	J			3.04	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	270	AB			4.95	ug/Kg
000119-61-9	Benzophenone	320	J			15.8	ug/Kg
000057-10-3	n-Hexadecanoic acid	160	J			18.1	ug/Kg
018835-33-1	1-Hexacosene	190	J			21.3	ug/Kg

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Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/06/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	38M-N	SDG No.:	Q2819
Lab Sample ID:	Q2819-17	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	87.5
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP025519.D	1	08/15/25 08:25	08/20/25 23:13	PB169259

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

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

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025519.D
Acq On : 20 Aug 2025 23:13
Operator : CG/JU
Sample : Q2819-17
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
38M-N

Quant Time: Aug 21 01:39:34 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration

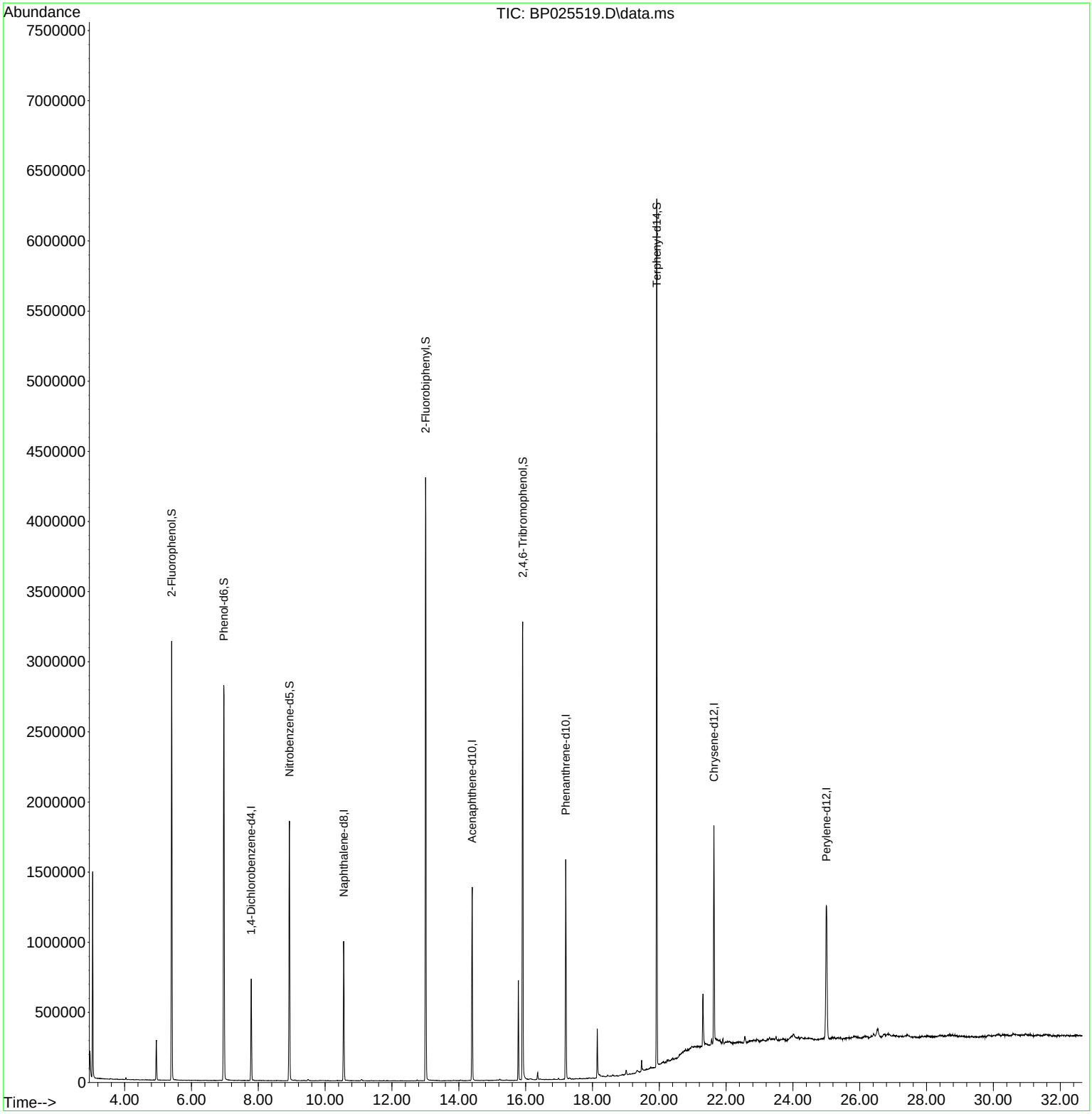
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.784	152	197854	20.000	ng	-0.01
21) Naphthalene-d8	10.555	136	774619	20.000	ng	0.00
39) Acenaphthene-d10	14.401	164	493782	20.000	ng	0.00
64) Phenanthrene-d10	17.201	188	941172	20.000	ng	0.00
76) Chrysene-d12	21.636	240	881283	20.000	ng	-0.01
86) Perylene-d12	25.001	264	996365	20.000	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.408	112	1308243	109.808	ng	0.00
7) Phenol-d6	6.967	99	1645427	107.723	ng	0.00
23) Nitrobenzene-d5	8.931	82	1089390	71.141	ng	0.00
42) 2,4,6-Tribromophenol	15.913	330	685763	103.179	ng	0.00
45) 2-Fluorobiphenyl	13.007	172	2200434	60.903	ng	-0.01
79) Terphenyl-d14	19.925	244	3015805	62.609	ng	0.00
Target Compounds						Qvalue

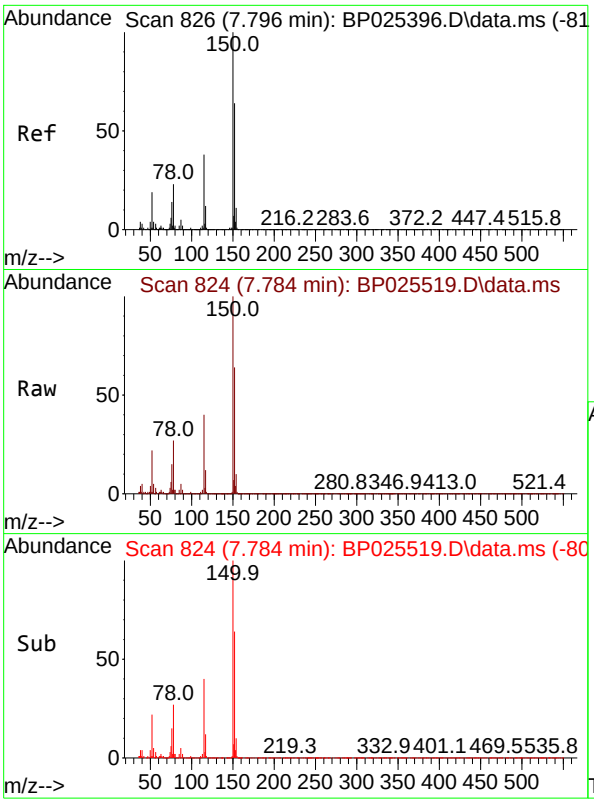
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025519.D
Acq On : 20 Aug 2025 23:13
Operator : CG/JU
Sample : Q2819-17
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
38M-N

Quant Time: Aug 21 01:39:34 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration



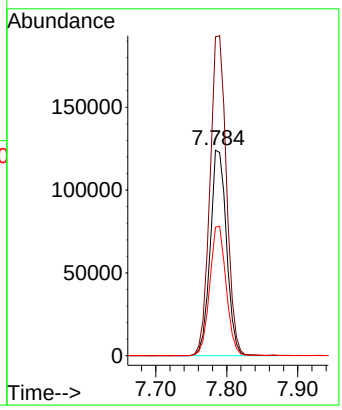


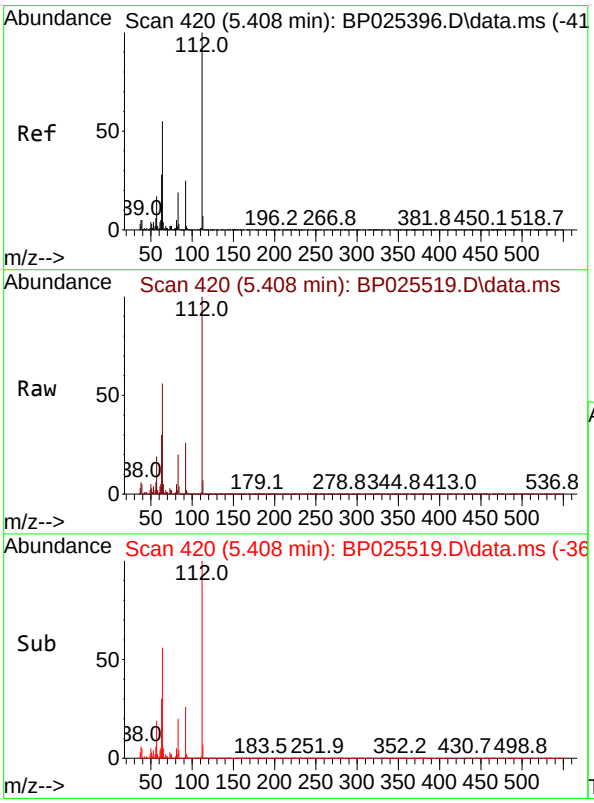
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.784 min Scan# 8
Delta R.T. -0.012 min
Lab File: BP025519.D
Acq: 20 Aug 2025 23:13

Instrument :
BNA_P
ClientSampleId :
38M-N

Tgt Ion:152 Resp: 197854

Ion	Ratio	Lower	Upper
152	100		
150	155.2	125.9	188.9
115	62.6	48.5	72.7

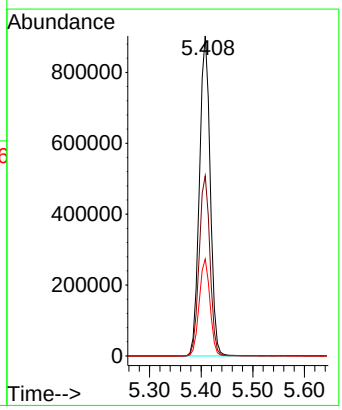


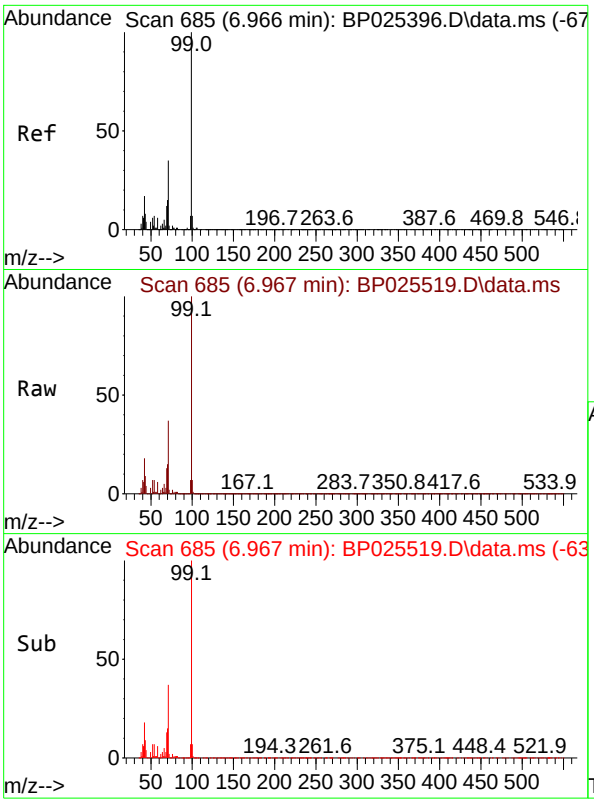


#5
2-Fluorophenol
Concen: 109.808 ng
RT: 5.408 min Scan# 420
Delta R.T. 0.000 min
Lab File: BP025519.D
Acq: 20 Aug 2025 23:13

Tgt Ion:112 Resp: 1308243

Ion	Ratio	Lower	Upper
112	100		
64	56.3	43.8	65.8
63	30.3	22.7	34.1



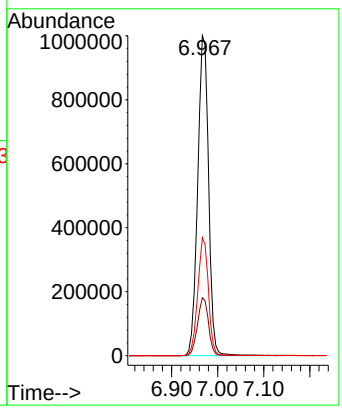


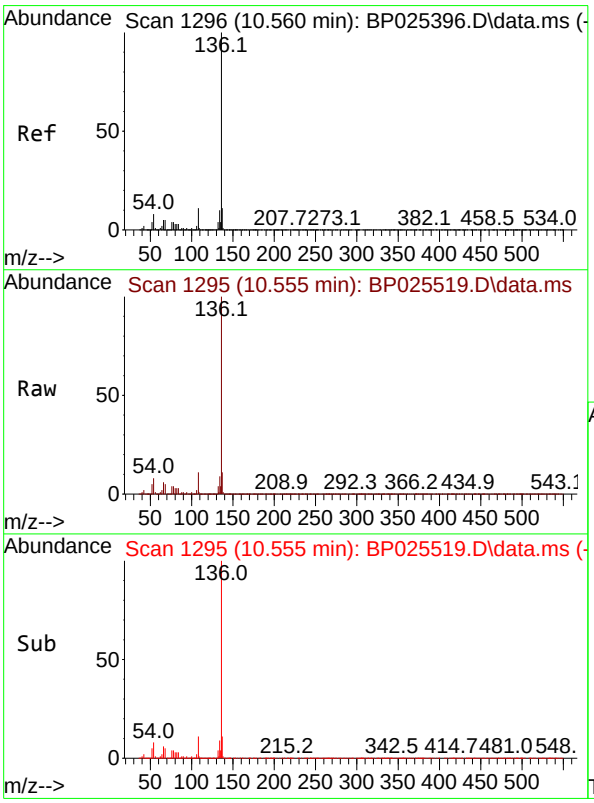
#7
Phenol-d6
Concen: 107.723 ng
RT: 6.967 min Scan# 6
Delta R.T. 0.000 min
Lab File: BP025519.D
Acq: 20 Aug 2025 23:13

Instrument :
BNA_P
ClientSampleId :
38M-N

Tgt Ion: 99 Resp: 1645427

Ion	Ratio	Lower	Upper
99	100		
42	18.1	13.7	20.5
71	36.9	28.2	42.4

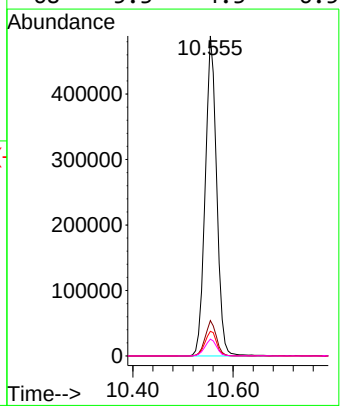


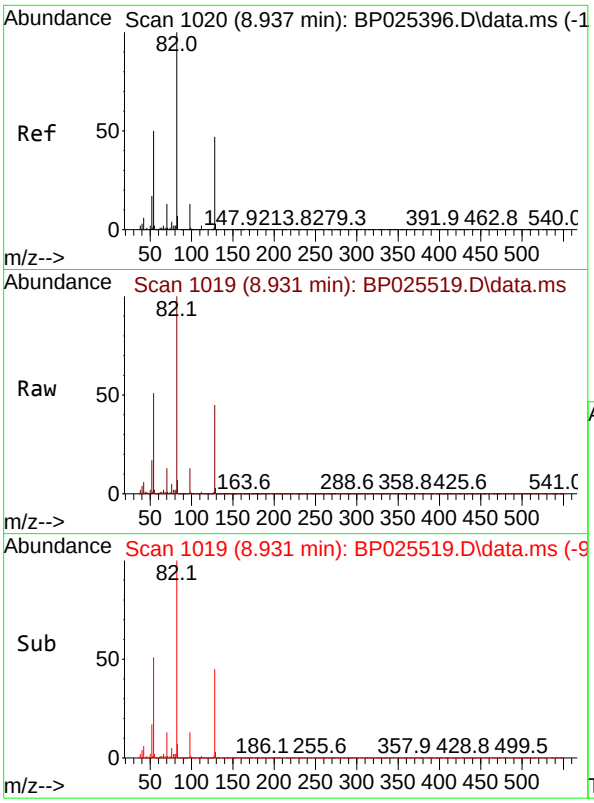


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.555 min Scan# 1295
Delta R.T. -0.006 min
Lab File: BP025519.D
Acq: 20 Aug 2025 23:13

Tgt Ion:136 Resp: 774619

Ion	Ratio	Lower	Upper
136	100		
137	11.1	9.2	13.8
54	7.7	6.0	9.0
68	5.3	4.3	6.5



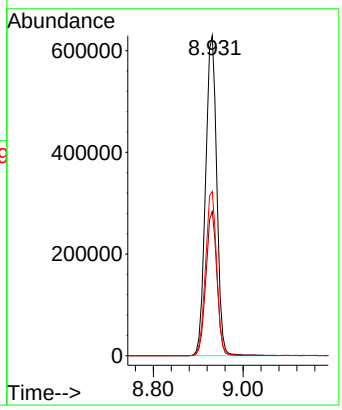


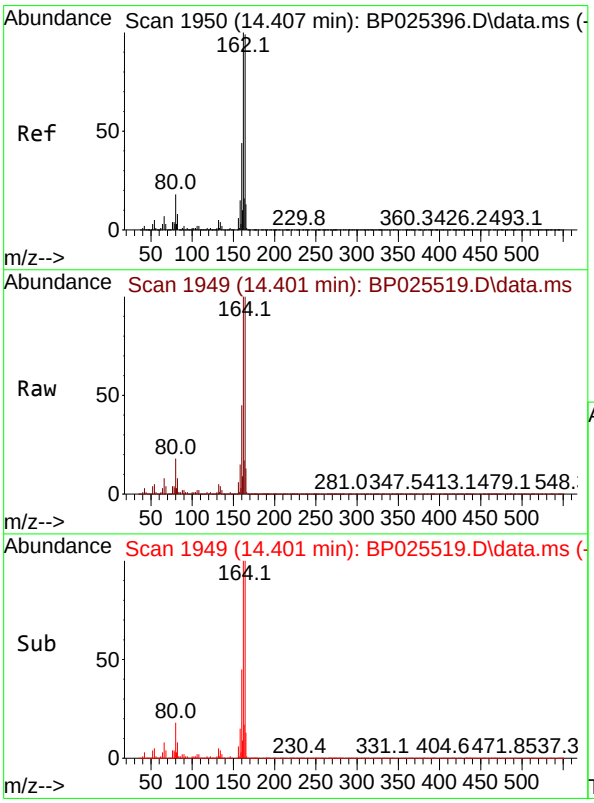
#23
Nitrobenzene-d5
Concen: 71.141 ng
RT: 8.931 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025519.D
Acq: 20 Aug 2025 23:13

Instrument :
BNA_P
ClientSampleId :
38M-N

Tgt Ion: 82 Resp: 1089390

Ion	Ratio	Lower	Upper
82	100		
128	45.1	37.7	56.5
54	51.3	39.8	59.6

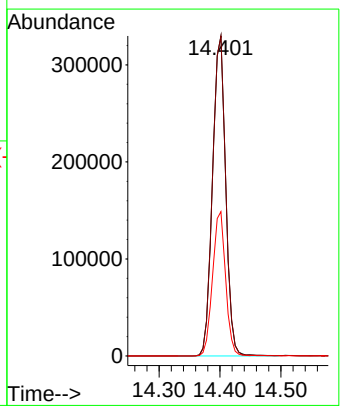


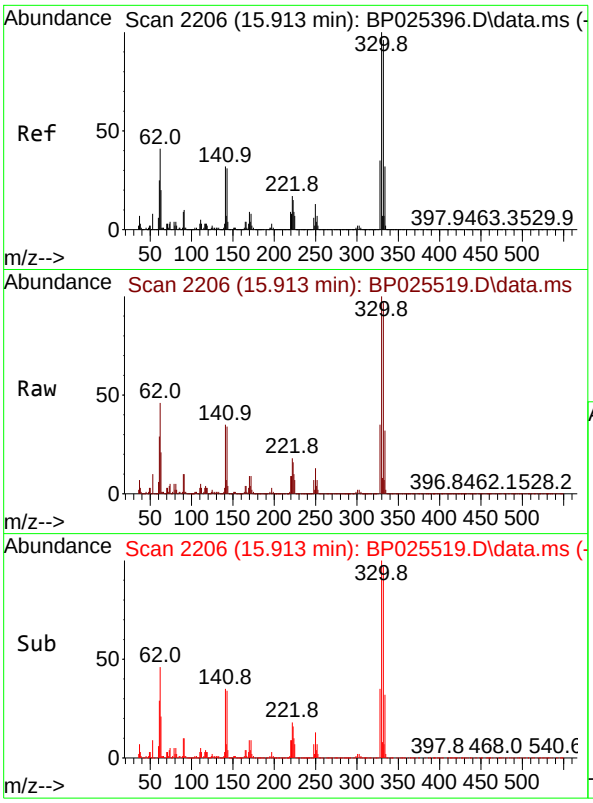


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.401 min Scan# 1949
Delta R.T. -0.006 min
Lab File: BP025519.D
Acq: 20 Aug 2025 23:13

Tgt Ion:164 Resp: 493782

Ion	Ratio	Lower	Upper
164	100		
162	99.9	81.0	121.6
160	45.1	35.4	53.2



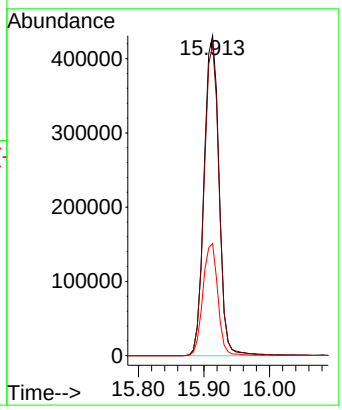


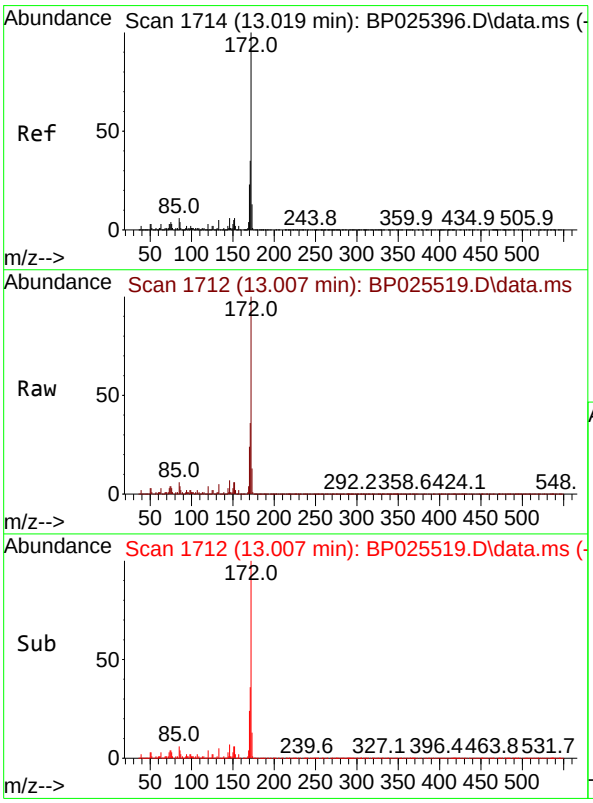
#42
2,4,6-Tribromophenol
Concen: 103.179 ng
RT: 15.913 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP025519.D
Acq: 20 Aug 2025 23:13

Instrument :
BNA_P
ClientSampleId :
38M-N

Tgt Ion:330 Resp: 685763

Ion	Ratio	Lower	Upper
330	100		
332	97.1	77.3	115.9
141	35.0	26.6	39.8

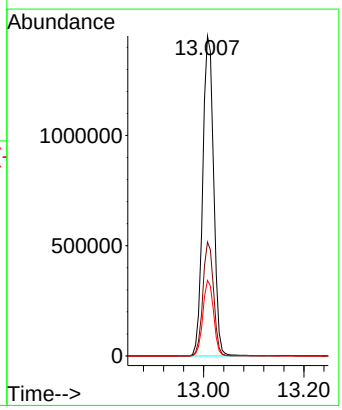


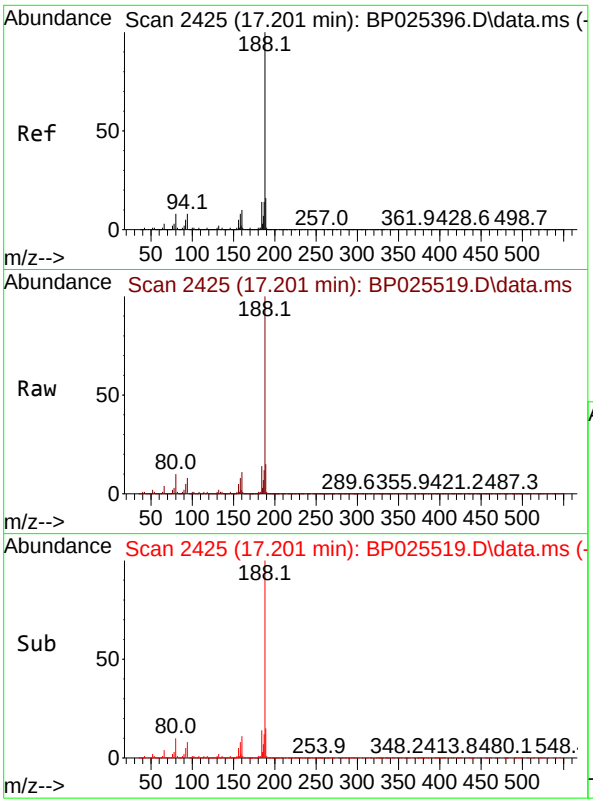


#45
2-Fluorobiphenyl
Concen: 60.903 ng
RT: 13.007 min Scan# 1712
Delta R.T. -0.011 min
Lab File: BP025519.D
Acq: 20 Aug 2025 23:13

Tgt Ion:172 Resp: 2200434

Ion	Ratio	Lower	Upper
172	100		
171	35.6	28.1	42.1
170	23.6	18.6	28.0



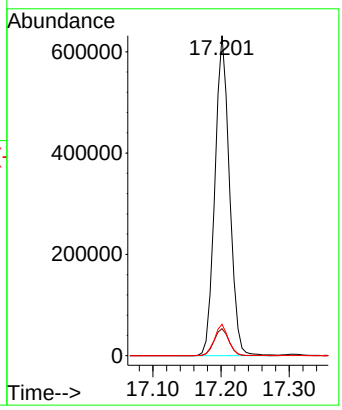


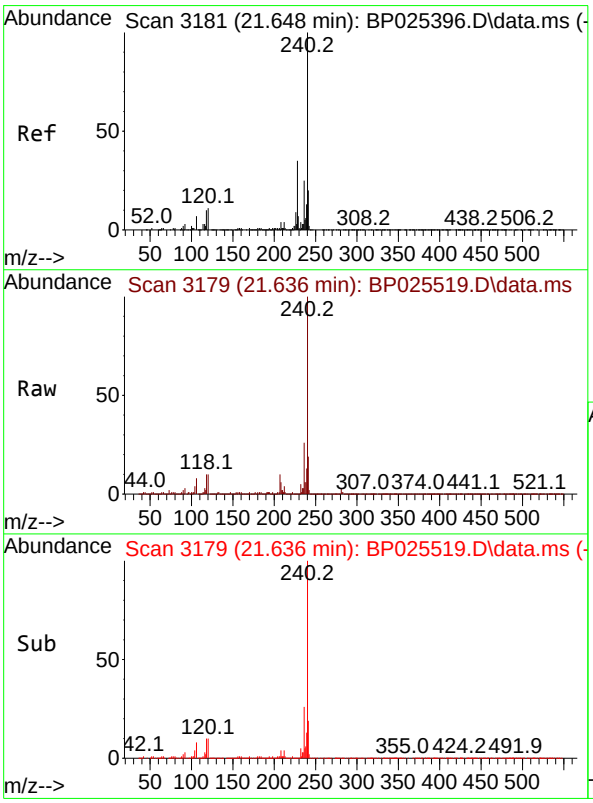
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.201 min Scan# 24
Delta R.T. 0.000 min
Lab File: BP025519.D
Acq: 20 Aug 2025 23:13

Instrument :
BNA_P
ClientSampleId :
38M-N

Tgt Ion:188 Resp: 941172

Ion	Ratio	Lower	Upper
188	100		
94	8.4	6.6	10.0
80	9.8	6.7	10.1

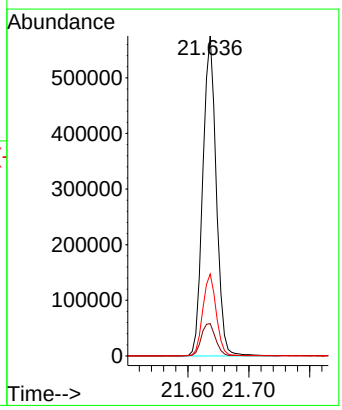


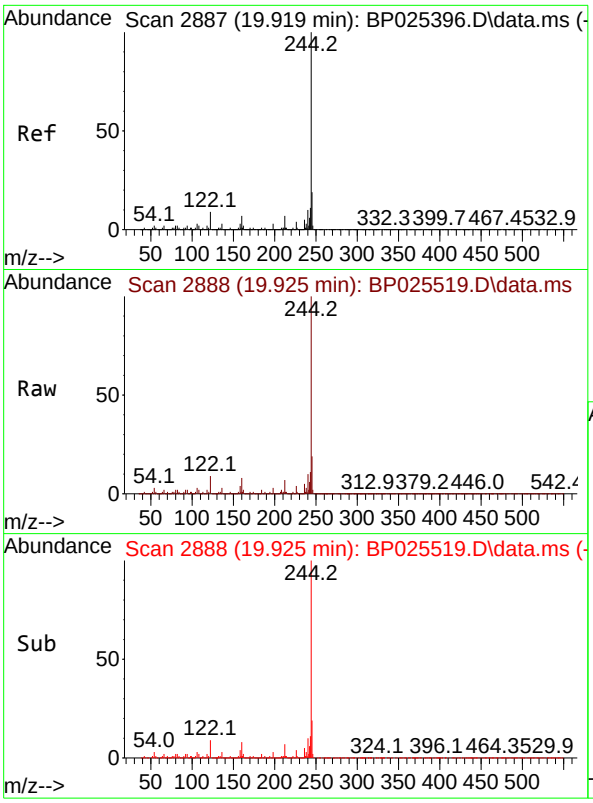


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.636 min Scan# 3179
Delta R.T. -0.011 min
Lab File: BP025519.D
Acq: 20 Aug 2025 23:13

Tgt Ion:240 Resp: 881283

Ion	Ratio	Lower	Upper
240	100		
120	10.1	8.9	13.3
236	25.6	19.8	29.8



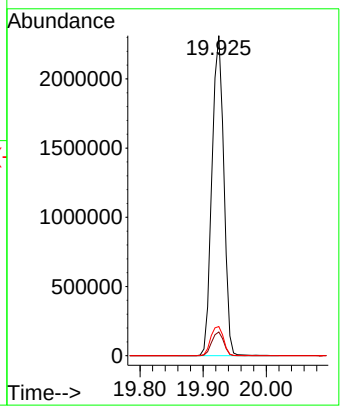


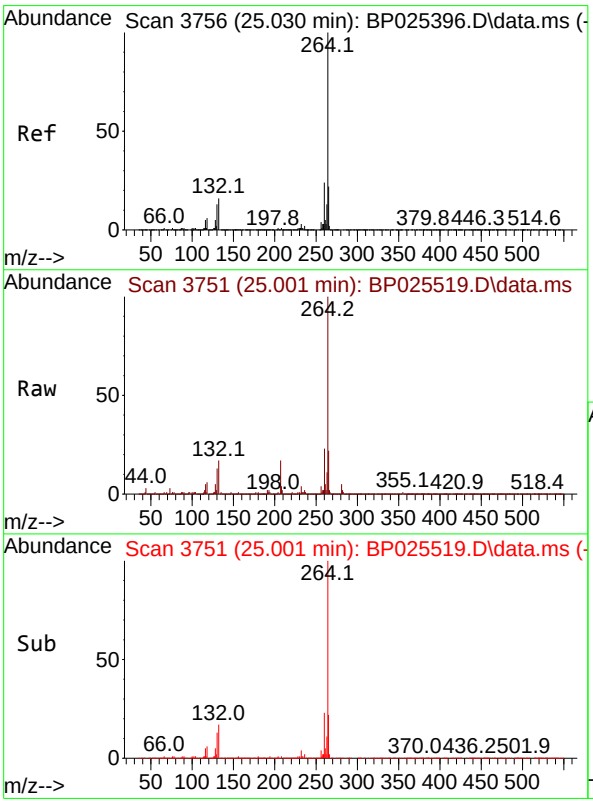
#79
Terphenyl-d14
Concen: 62.609 ng
RT: 19.925 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025519.D
Acq: 20 Aug 2025 23:13

Instrument :
BNA_P
ClientSampleId :
38M-N

Tgt Ion:244 Resp: 3015805

Ion	Ratio	Lower	Upper
244	100		
212	7.4	5.8	8.6
122	9.1	7.4	11.2

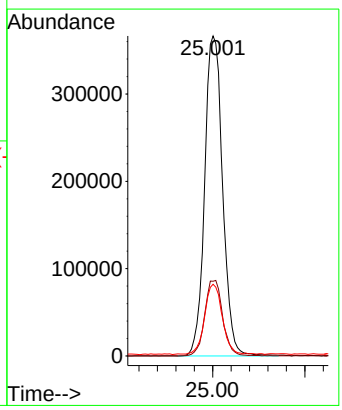




#86
Perylene-d12
Concen: 20.000 ng
RT: 25.001 min Scan# 3751
Delta R.T. -0.029 min
Lab File: BP025519.D
Acq: 20 Aug 2025 23:13

Tgt Ion:264 Resp: 996365

Ion	Ratio	Lower	Upper
264	100		
260	23.3	19.3	28.9
265	22.4	17.4	26.0



Sample Results: **BP025519.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025519.D
Acq On : 20 Aug 2025 23:13
Operator : CG/JU
Sample : Q2819-17
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
38M-N

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

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

Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BP025519.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.043	13	18	32	rVB	1471678	1759918	21.55%	3.602%
2	4.949	334	342	348	rBV	287100	416637	5.10%	0.853%
3	5.408	413	420	435	rBV	3130597	4529739	55.47%	9.272%
4	6.967	677	685	697	rBV	2816894	4685326	57.37%	9.590%
5	7.784	817	824	832	rBV	724436	1173198	14.37%	2.401%
6	8.931	1010	1019	1032	rBV	1850567	3205697	39.25%	6.562%
7	10.555	1287	1295	1305	rBV	994660	1580605	19.35%	3.235%
8	13.007	1705	1712	1730	rBV	4302599	6466181	79.18%	13.236%
9	14.401	1940	1949	1962	rBV	1379792	2109315	25.83%	4.318%
10	15.784	2178	2184	2191	rBV	711665	889894	10.90%	1.822%
11	15.913	2198	2206	2227	rBV	3266579	5291728	64.80%	10.832%
12	17.201	2418	2425	2436	rBV	1567659	2359864	28.90%	4.830%
13	18.142	2581	2585	2596	rBV	350777	501644	6.14%	1.027%
14	19.472	2807	2811	2815	rBV	80450	106361	1.30%	0.218%
15	19.925	2882	2888	2893	rBV	6188456	8166691	100.00%	16.716%
16	21.307	3118	3123	3131	rBV	374998	615536	7.54%	1.260%
17	21.636	3173	3179	3186	rBV	1553946	2422735	29.67%	4.959%
18	25.001	3743	3751	3763	rVB3	946390	2573592	31.51%	5.268%

Sum of corrected areas: 48854661

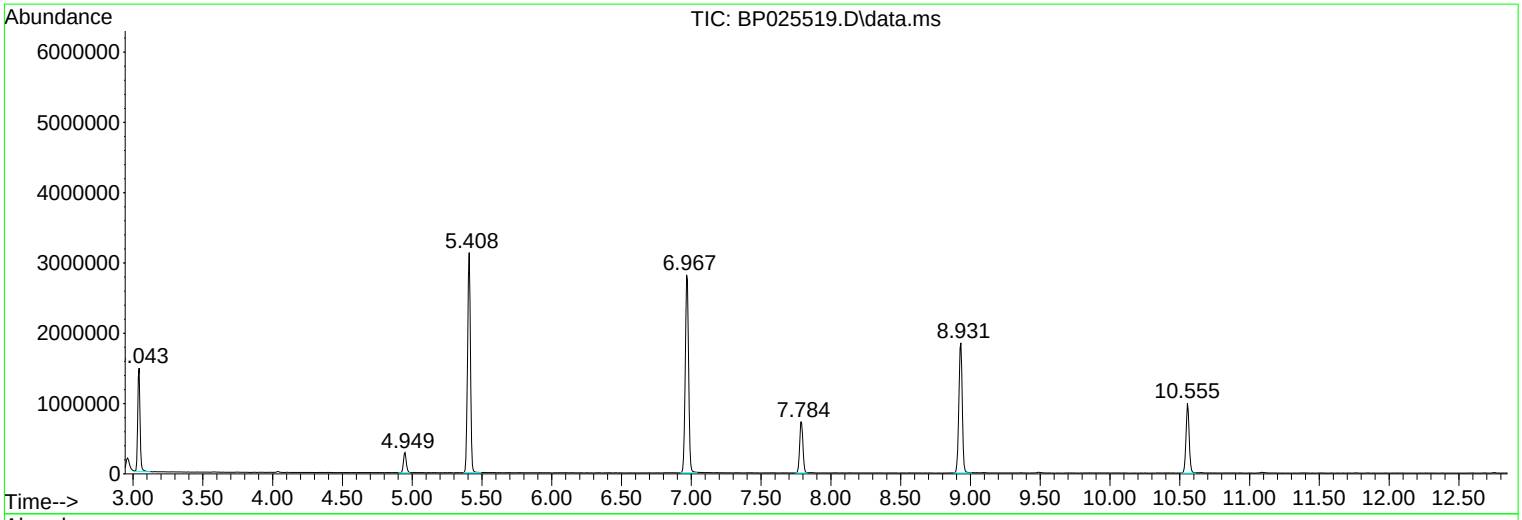
Sample Results: **BP025519.D**

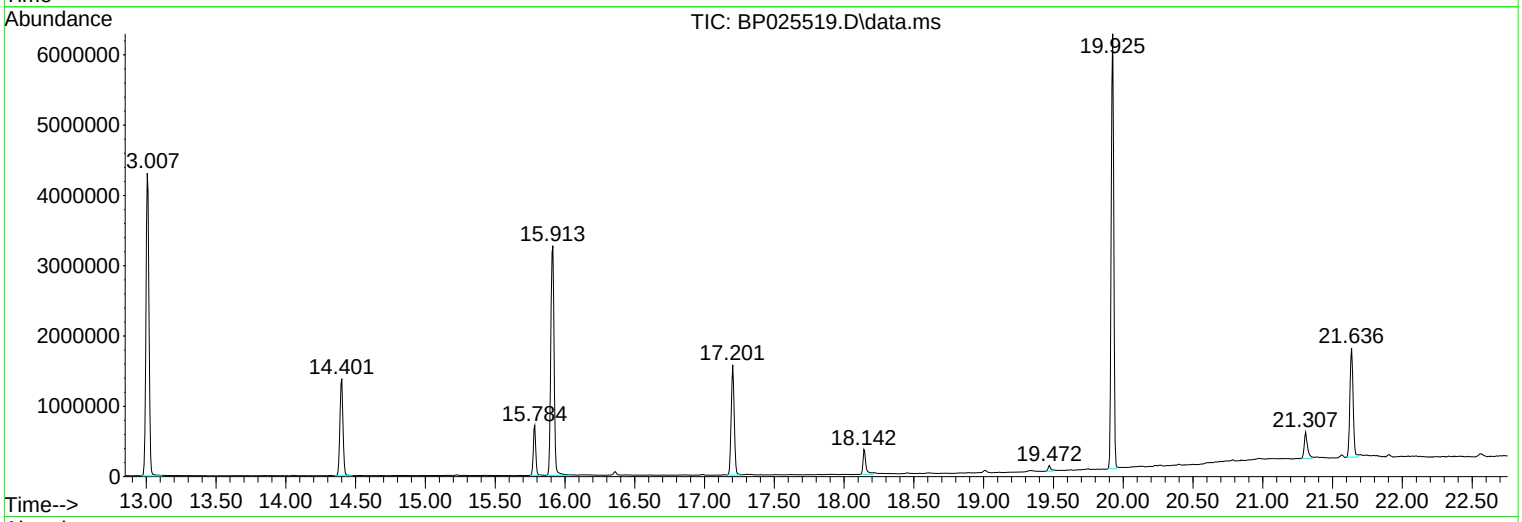
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025519.D
Acq On : 20 Aug 2025 23:13
Operator : CG/JU
Sample : Q2819-17
Misc :
ALS Vial : 9 Sample Multiplier: 1

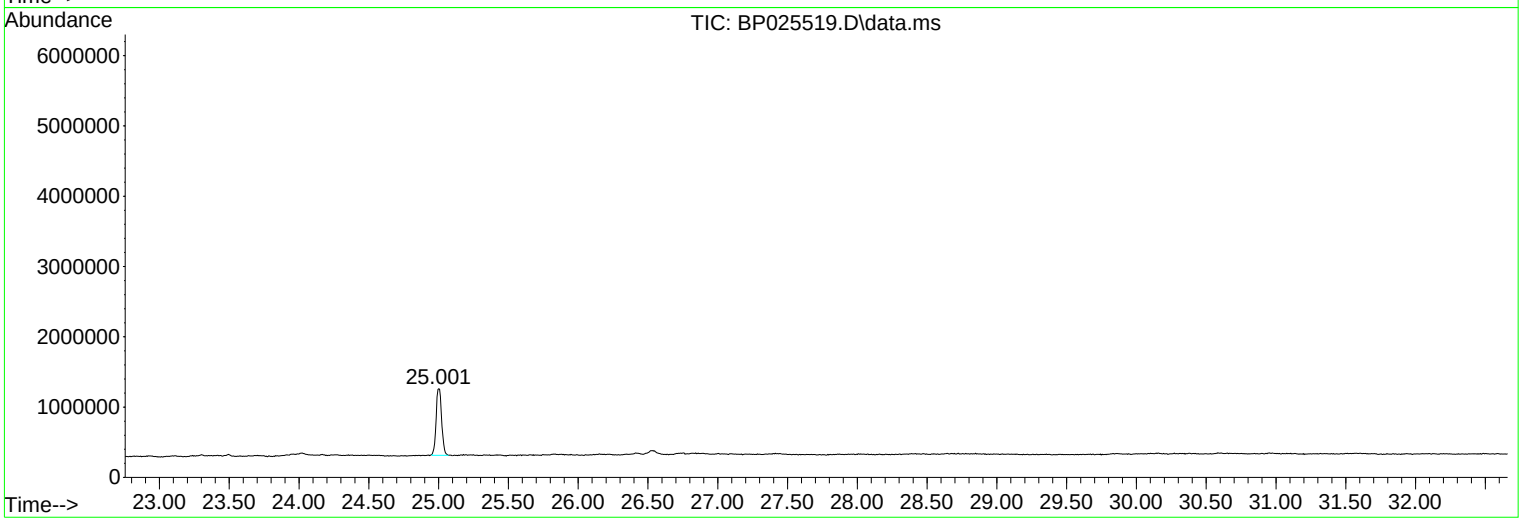
Instrument :
BNA_P
ClientSampleId :
38M-N

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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







Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025519.D
Acq On : 20 Aug 2025 23:13
Operator : CG/JU
Sample : Q2819-17
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
38M-N

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

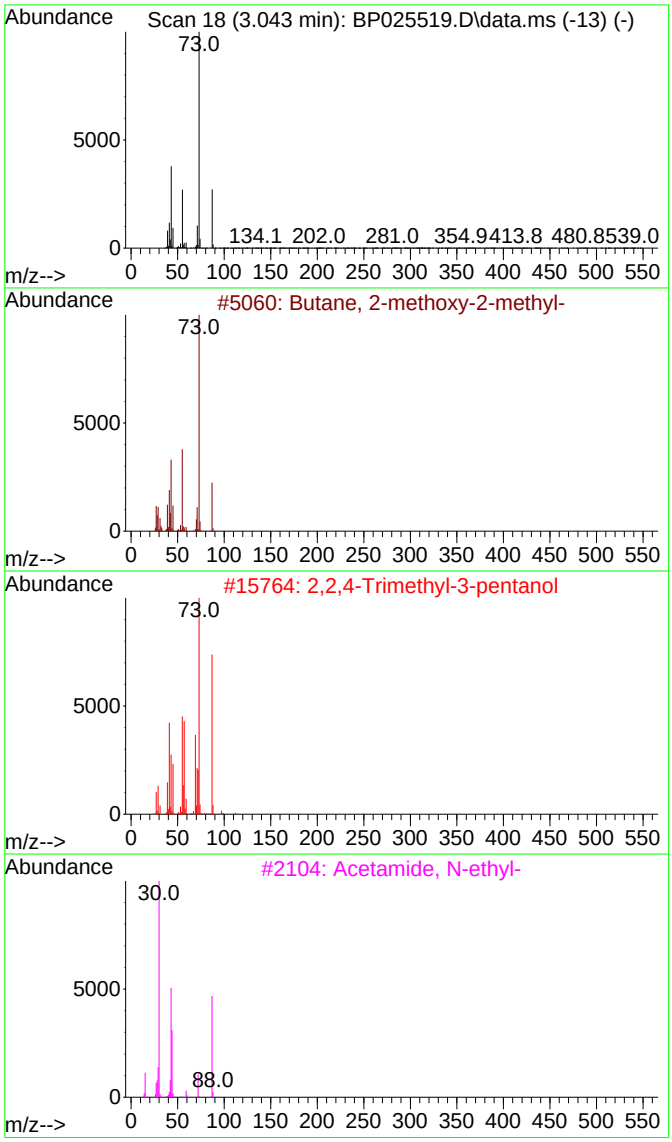
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

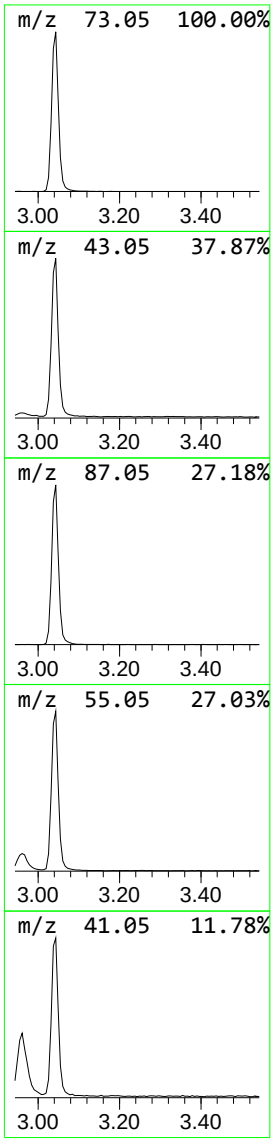
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.043	30.00 ng	1759920	1,4-Dichlorobenzene-d4	7.784

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	Acetamide, N-ethyl-	87	C4H9NO	000625-50-3	22
4	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	17
5	N-Ethylformamide	73	C3H7NO	000627-45-2	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025519.D
Acq On : 20 Aug 2025 23:13
Operator : CG/JU
Sample : Q2819-17
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
38M-N

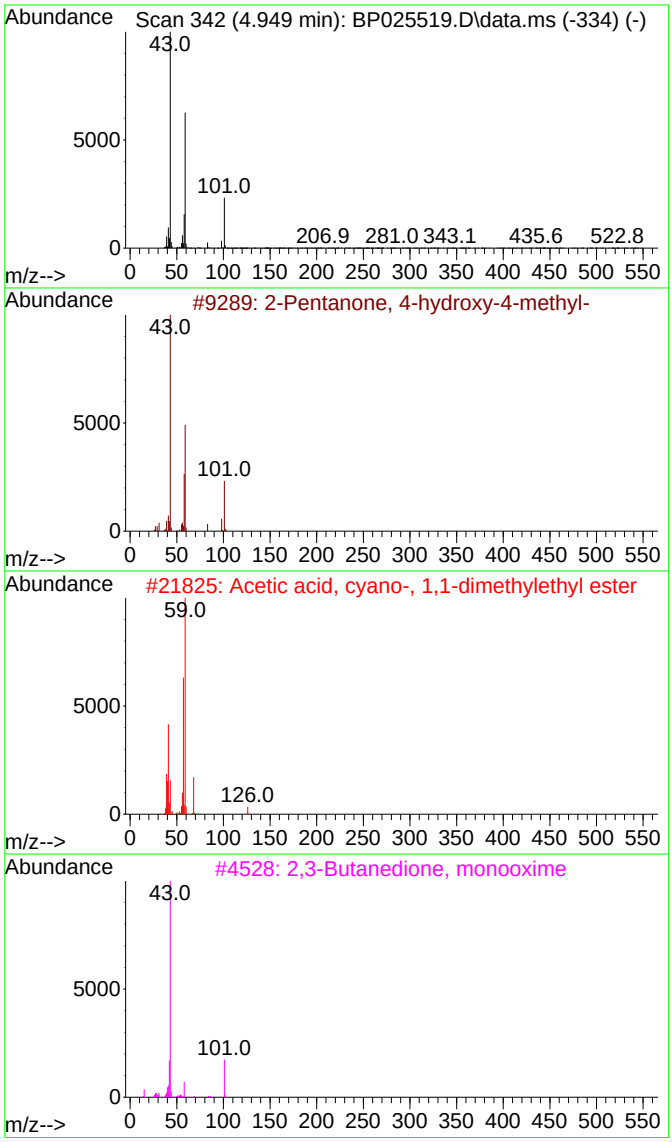
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

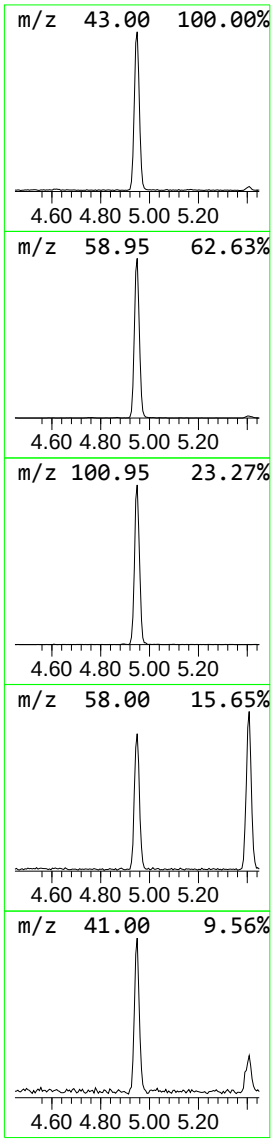
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.949	7.10 ng	416637	1,4-Dichlorobenzene-d4	7.784

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	25
3	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	25
4	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	10
5	Morpholine, 4-methyl-	101	C5H11NO	000109-02-4	9





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Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025519.D
Acq On    : 20 Aug 2025  23:13
Operator  : CG/JU
Sample    : Q2819-17
Misc      :
ALS Vial  : 9   Sample Multiplier: 1

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

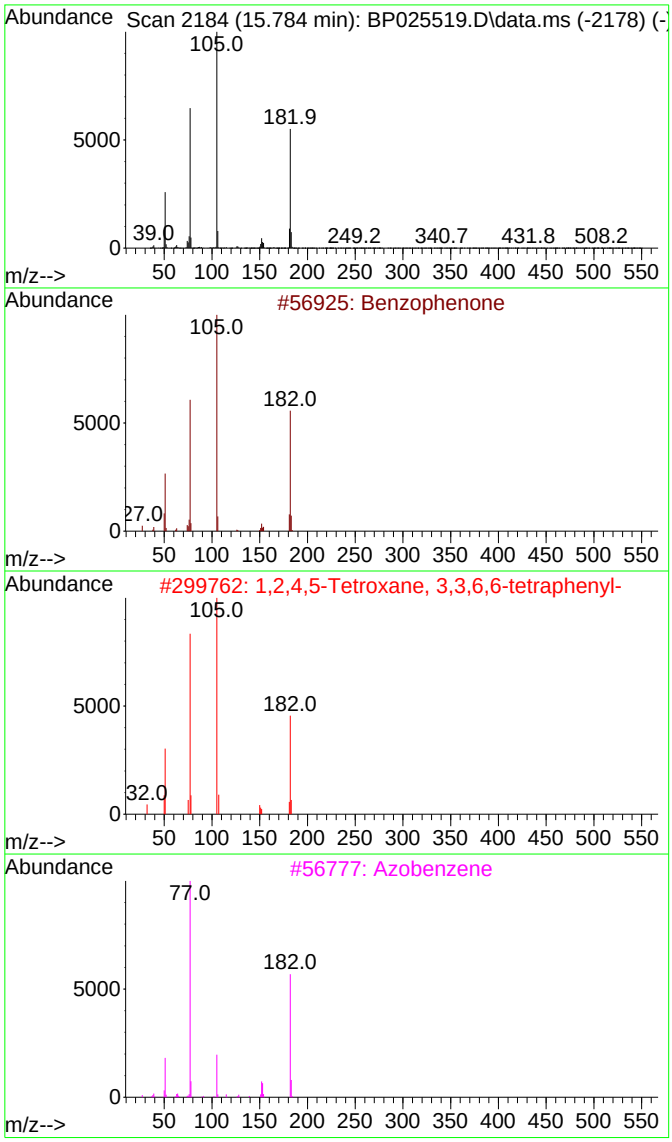
Instrument :
BNA_P
ClientSampleId :
38M-N

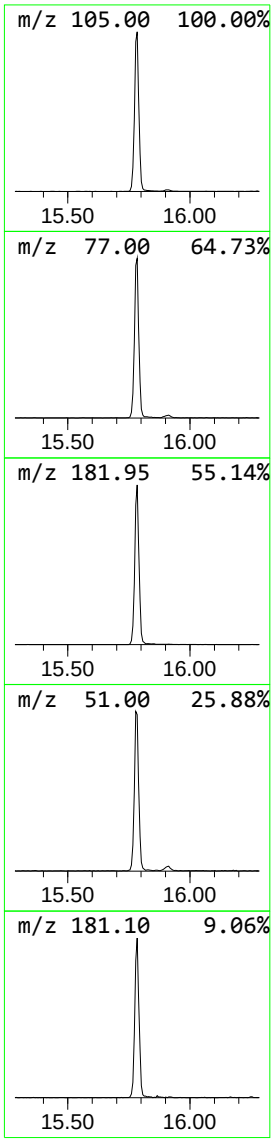
****

Peak Number 3 Benzophenone Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.784	8.44 ng	889894	Acenaphthene-d10	14.402

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	64
3	Azobenzene	182	C12H10N2	000103-33-3	64
4	Azobenzene, (E)-	182	C12H10N2	017082-12-1	50
5	Benzenamine, N-(3-pyridinylmethy...	182	C12H10N2	029722-97-2	42





Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025519.D
Acq On : 20 Aug 2025 23:13
Operator : CG/JU
Sample : Q2819-17
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
38M-N

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

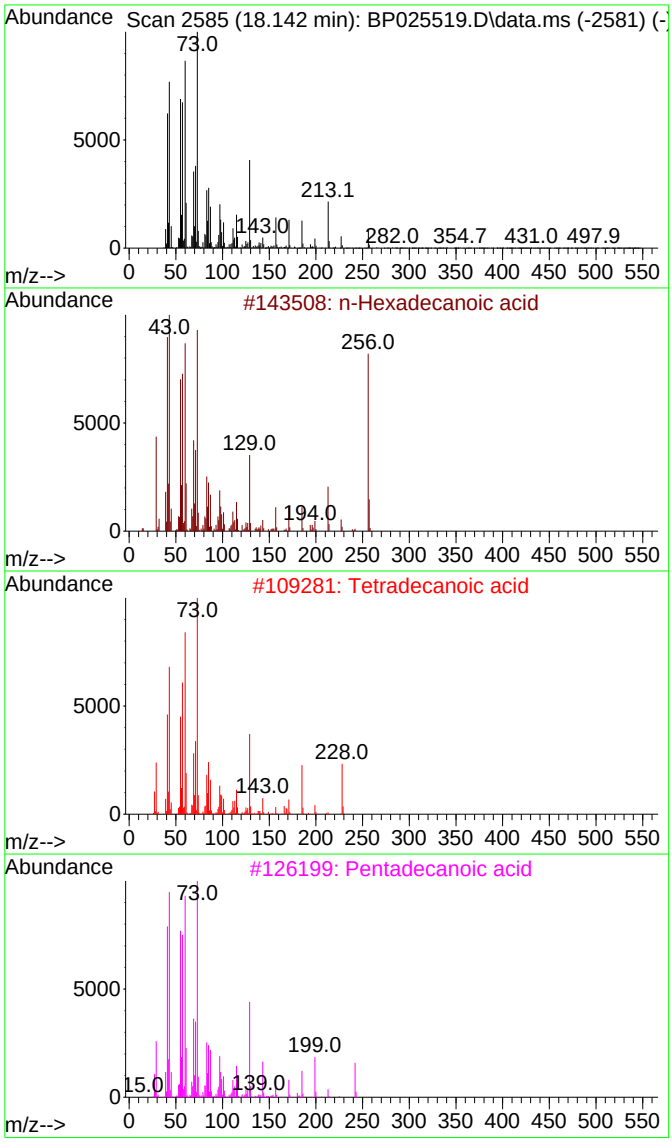
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

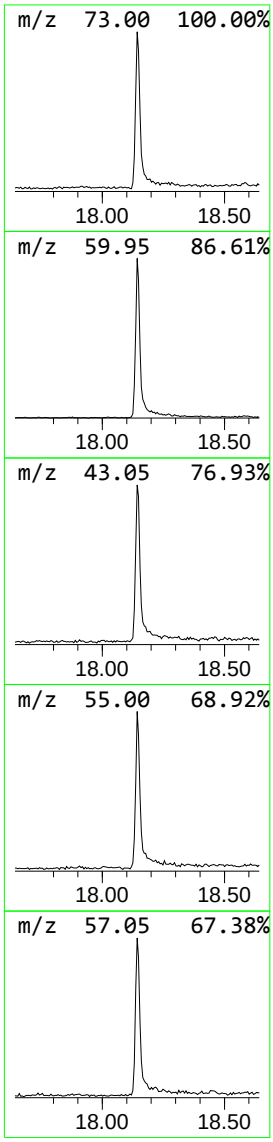
****

Peak Number 4 n-Hexadecanoic acid Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.142	4.25 ng	501644	Phenanthrene-d10	17.201

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	91
3	Pentadecanoic acid	242	C15H30O2	001002-84-2	91
4	Octadecanoic acid	284	C18H36O2	000057-11-4	87
5	Tridecanoic acid	214	C13H26O2	000638-53-9	72





Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025519.D
Acq On : 20 Aug 2025 23:13
Operator : CG/JU
Sample : Q2819-17
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
38M-N

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

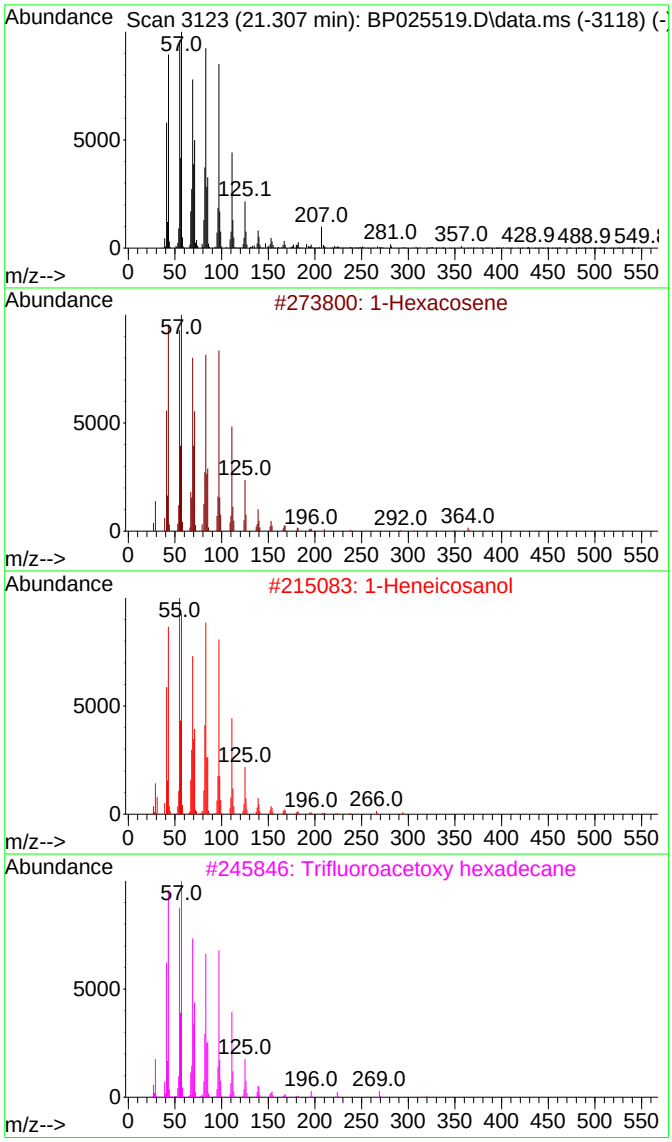
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

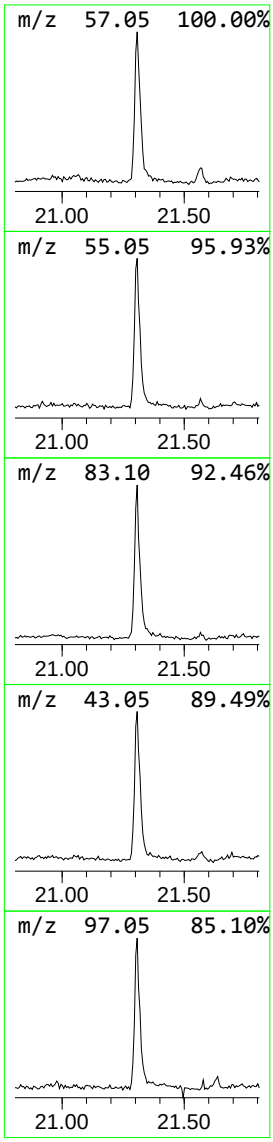
****

Peak Number 5 1-Hexacosene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.307	5.08 ng	615536	Chrysene-d12	21.636

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Hexacosene	364	C26H52	018835-33-1	95
2	1-Heneicosanol	312	C21H44O	015594-90-8	95
3	Trifluoroacetoxy hexadecane	338	C18H33F3O2	006222-03-3	94
4	Pentacos-1-ene	350	C25H50	016980-85-1	94
5	2- Chloropropionic acid, octadec...	360	C21H41ClO2	088104-31-8	94





Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025519.D
Acq On : 20 Aug 2025 23:13
Operator : CG/JU
Sample : Q2819-17
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
38M-N

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.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...	3.043	30.0	ng	1759920	1	7.784	1173200	20.0
2-Pentanone, 4-...	4.949	7.1	ng	416637	1	7.784	1173200	20.0
Benzophenone	15.784	8.4	ng	889894	3	14.402	2109320	20.0
n-Hexadecanoic ...	18.142	4.3	ng	501644	4	17.201	2359860	20.0
1-Hexacosene	21.307	5.1	ng	615536	5	21.636	2422740	20.0

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Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/06/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	38M-W	SDG No.:	Q2819
Lab Sample ID:	Q2819-18	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	86.3
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
BF143507.D	1	08/15/25 08:25	08/21/25 02:25	PB169259

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
100-52-7	Benzaldehyde	310	U	180	310	380	ug/Kg
108-95-2	Phenol	150	U	25.5	150	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	150	U	28.1	150	200	ug/Kg
95-57-8	2-Chlorophenol	150	U	28.2	150	200	ug/Kg
95-48-7	2-Methylphenol	150	U	34.6	150	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	150	U	43.3	150	200	ug/Kg
98-86-2	Acetophenone	150	U	34.1	150	200	ug/Kg
65794-96-9	3+4-Methylphenols	310	U	47.5	310	380	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	92.5	U	54.8	92.5	92.5	ug/Kg
67-72-1	Hexachloroethane	150	U	20.3	150	200	ug/Kg
98-95-3	Nitrobenzene	150	U	21.1	150	200	ug/Kg
78-59-1	Isophorone	150	U	37.9	150	200	ug/Kg
88-75-5	2-Nitrophenol	150	U	67.3	150	200	ug/Kg
105-67-9	2,4-Dimethylphenol	150	U	74.9	150	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	150	U	35.6	150	200	ug/Kg
120-83-2	2,4-Dichlorophenol	150	U	32.7	150	200	ug/Kg
91-20-3	Naphthalene	150	U	26.2	150	200	ug/Kg
106-47-8	4-Chloroaniline	150	U	40.9	150	200	ug/Kg
87-68-3	Hexachlorobutadiene	150	U	29.2	150	200	ug/Kg
105-60-2	Caprolactam	310	U	60.2	310	380	ug/Kg
59-50-7	4-Chloro-3-methylphenol	150	U	33.2	150	200	ug/Kg
91-57-6	2-Methylnaphthalene	150	U	29.6	150	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	310	U	130	310	380	ug/Kg
88-06-2	2,4,6-Trichlorophenol	150	U	22.9	150	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	150	U	33.6	150	200	ug/Kg
92-52-4	1,1-Biphenyl	150	U	25.2	150	200	ug/Kg
91-58-7	2-Chloronaphthalene	150	U	26.0	150	200	ug/Kg
88-74-4	2-Nitroaniline	150	U	55.6	150	200	ug/Kg
131-11-3	Dimethylphthalate	150	U	31.3	150	200	ug/Kg

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Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/06/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	38M-W	SDG No.:	Q2819
Lab Sample ID:	Q2819-18	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	86.3
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
BF143507.D	1	08/15/25 08:25	08/21/25 02:25	PB169259

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	150	U	33.4	150	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	150	U	38.8	150	200	ug/Kg
99-09-2	3-Nitroaniline	150	U	53.2	150	200	ug/Kg
83-32-9	Acenaphthene	150	U	24.6	150	200	ug/Kg
51-28-5	2,4-Dinitrophenol	310	U	260	310	380	ug/Kg
100-02-7	4-Nitrophenol	310	U	120	310	380	ug/Kg
132-64-9	Dibenzofuran	150	U	26.2	150	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	150	U	57.9	150	200	ug/Kg
84-66-2	Diethylphthalate	150	U	32.7	150	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	150	U	30.9	150	200	ug/Kg
86-73-7	Fluorene	150	U	29.2	150	200	ug/Kg
100-01-6	4-Nitroaniline	150	U	74.2	150	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	310	U	120	310	380	ug/Kg
86-30-6	n-Nitrosodiphenylamine	150	U	38.0	150	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	150	U	32.1	150	200	ug/Kg
118-74-1	Hexachlorobenzene	150	U	29.2	150	200	ug/Kg
1912-24-9	Atrazine	150	U	39.3	150	200	ug/Kg
87-86-5	Pentachlorophenol	310	U	59.3	310	380	ug/Kg
85-01-8	Phenanthrene	150	U	24.2	150	200	ug/Kg
120-12-7	Anthracene	150	U	38.5	150	200	ug/Kg
86-74-8	Carbazole	150	U	36.1	150	200	ug/Kg
84-74-2	Di-n-butylphthalate	150	U	55.4	150	200	ug/Kg
206-44-0	Fluoranthene	150	U	34.7	150	200	ug/Kg
129-00-0	Pyrene	150	U	41.6	150	200	ug/Kg
85-68-7	Butylbenzylphthalate	150	U	82.5	150	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	310	U	42.4	310	380	ug/Kg
56-55-3	Benzo(a)anthracene	150	U	26.6	150	200	ug/Kg
218-01-9	Chrysene	150	U	23.0	150	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	150	U	68.4	150	200	ug/Kg
117-84-0	Di-n-octyl phthalate	310	U	100	310	380	ug/Kg
205-99-2	Benzo(b)fluoranthene	150	U	22.0	150	200	ug/Kg

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Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/06/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	38M-W	SDG No.:	Q2819
Lab Sample ID:	Q2819-18	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	86.3
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
BF143507.D	1	08/15/25 08:25	08/21/25 02:25	PB169259

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	150	U	25.9	150	200	ug/Kg
50-32-8	Benzo(a)pyrene	150	U	34.1	150	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	150	U	33.6	150	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	150	U	31.7	150	200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	150	U	29.7	150	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	150	U	29.6	150	200	ug/Kg
123-91-1	1,4-Dioxane	150	U	52.2	150	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	150	U	31.7	150	200	ug/Kg
SURROGATES							
367-12-4	2-Fluorophenol	89.5		35 - 115		60%	SPK: 150
13127-88-3	Phenol-d6	90.6		34 - 127		60%	SPK: 150
4165-60-0	Nitrobenzene-d5	64.4		37 - 122		64%	SPK: 100
321-60-8	2-Fluorobiphenyl	64.8		44 - 115		65%	SPK: 100
118-79-6	2,4,6-Tribromophenol	88.8		39 - 132		59%	SPK: 150
1718-51-0	Terphenyl-d14	65.7		54 - 127		66%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	133000	6.928				
1146-65-2	Naphthalene-d8	502000	8.204				
15067-26-2	Acenaphthene-d10	274000	9.963				
1517-22-2	Phenanthrene-d10	412000	11.451				
1719-03-5	Chrysene-d12	227000	14.092				
1520-96-3	Perylene-d12	277000	15.592				
TENTATIVE IDENTIFIED COMPOUNDS							
000994-05-8	Butane, 2-methoxy-2-methyl-	1100	J			2.26	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	270	AB			5.16	ug/Kg
000119-61-9	Benzophenone	280	J			10.7	ug/Kg

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Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/06/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	38M-W	SDG No.:	Q2819
Lab Sample ID:	Q2819-18	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	86.3
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
BF143507.D	1	08/15/25 08:25	08/21/25 02:25	PB169259

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	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\BF082025\
Data File : BF143507.D
Acq On : 21 Aug 2025 02:25
Operator : RC/JU
Sample : Q2819-18
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
38M-W

Quant Time: Aug 21 02:50:28 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 20 15:07:46 2025
Response via : Initial Calibration

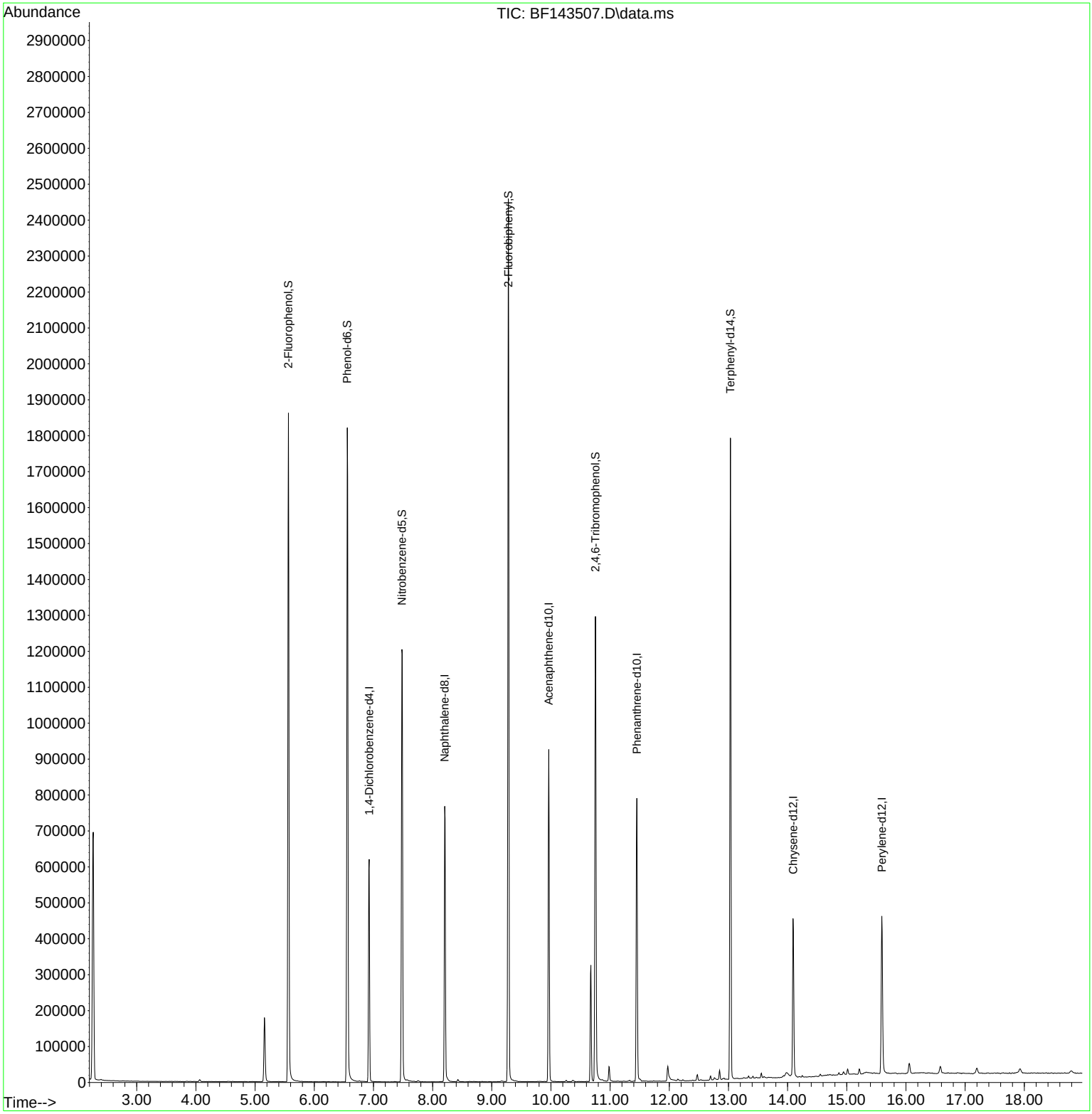
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.928	152	132869	20.000	ng	0.00
21) Naphthalene-d8	8.204	136	502084	20.000	ng	0.00
39) Acenaphthene-d10	9.963	164	273604	20.000	ng	0.00
64) Phenanthrene-d10	11.451	188	412276	20.000	ng	0.00
76) Chrysene-d12	14.092	240	227079	20.000	ng	-0.01
86) Perylene-d12	15.592	264	276806	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.563	112	681277	89.533	ng	0.00
7) Phenol-d6	6.557	99	850891	90.586	ng	-0.02
23) Nitrobenzene-d5	7.481	82	554091	64.399	ng	-0.02
42) 2,4,6-Tribromophenol	10.751	330	226099	88.776	ng	-0.01
45) 2-Fluorobiphenyl	9.280	172	1073508	64.844	ng	0.00
79) Terphenyl-d14	13.033	244	854893	65.696	ng	0.00
Target Compounds						Qvalue

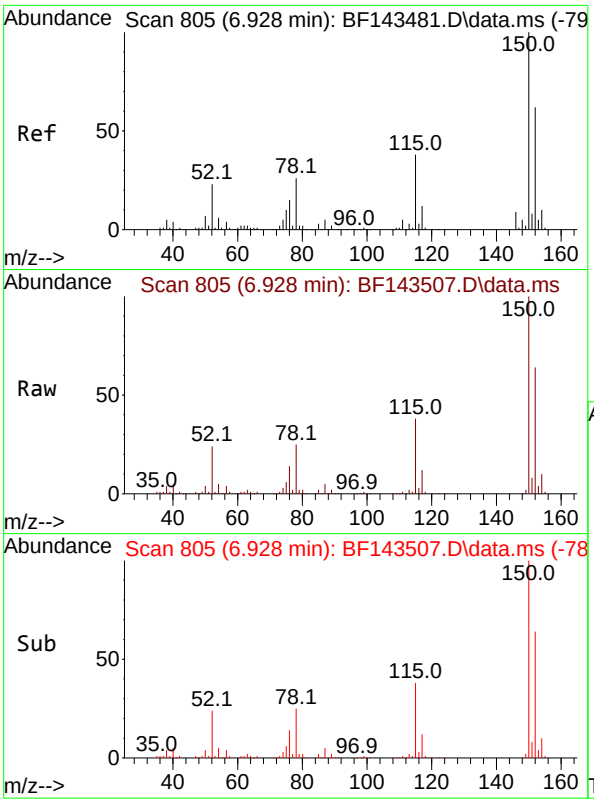
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082025\
Data File : BF143507.D
Acq On : 21 Aug 2025 02:25
Operator : RC/JU
Sample : Q2819-18
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
38M-W

Quant Time: Aug 21 02:50:28 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 20 15:07:46 2025
Response via : Initial Calibration



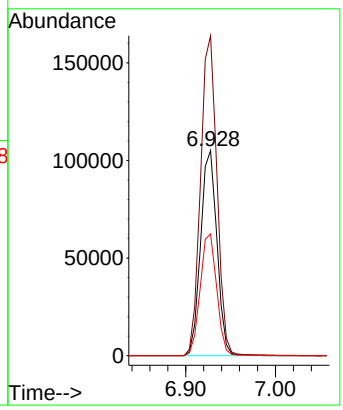


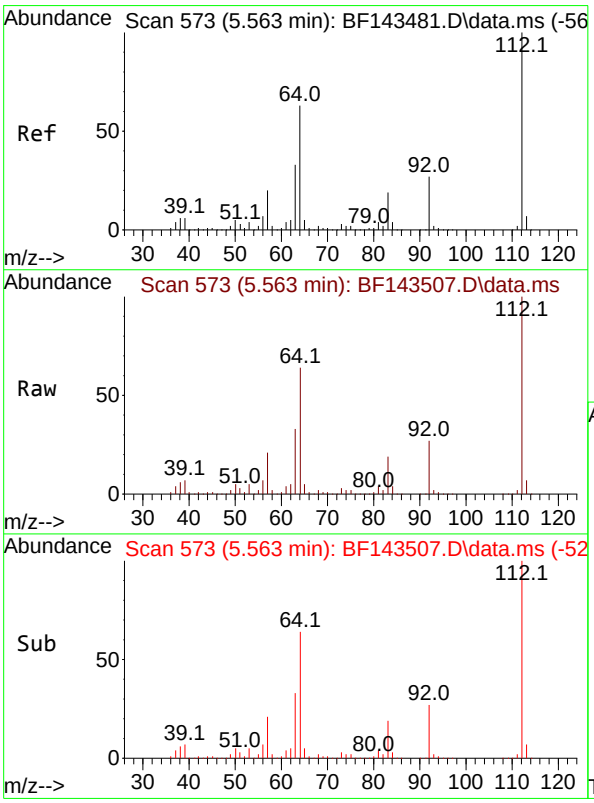
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.928 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF143507.D
Acq: 21 Aug 2025 02:25

Instrument :
BNA_F
ClientSampleId :
38M-W

Tgt Ion:152 Resp: 132869

Ion	Ratio	Lower	Upper
152	100		
150	156.1	128.9	193.3
115	59.4	49.2	73.8

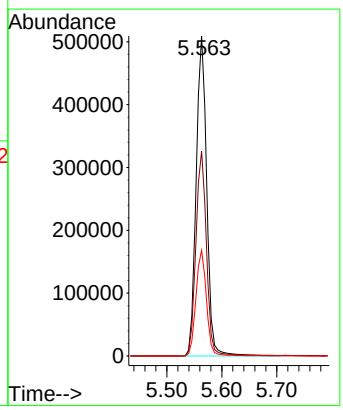


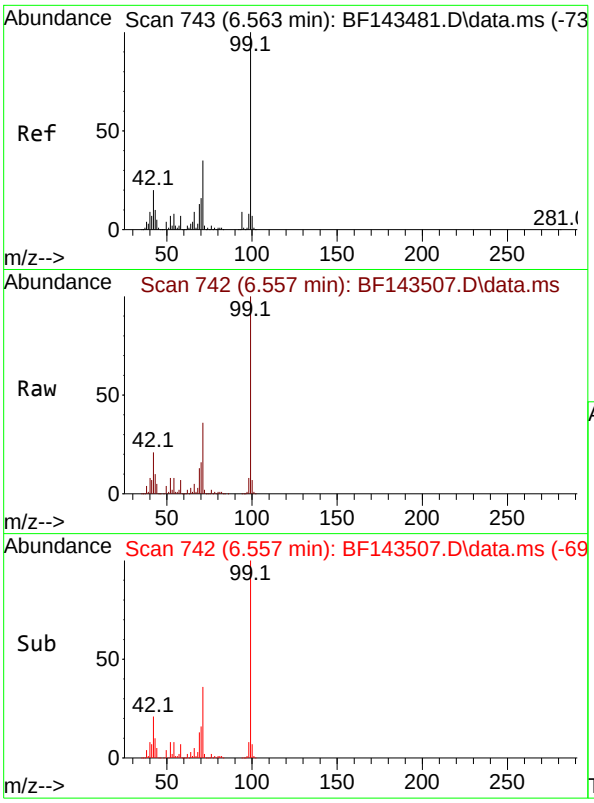


#5
2-Fluorophenol
Concen: 89.533 ng
RT: 5.563 min Scan# 573
Delta R.T. -0.000 min
Lab File: BF143507.D
Acq: 21 Aug 2025 02:25

Tgt Ion:112 Resp: 681277

Ion	Ratio	Lower	Upper
112	100		
64	64.0	50.4	75.6
63	33.0	26.4	39.6



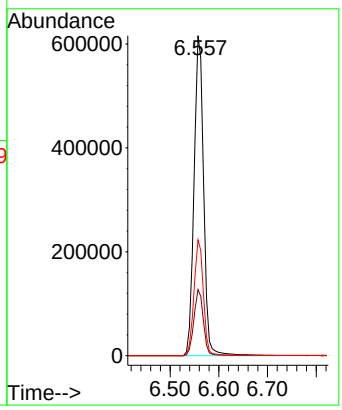


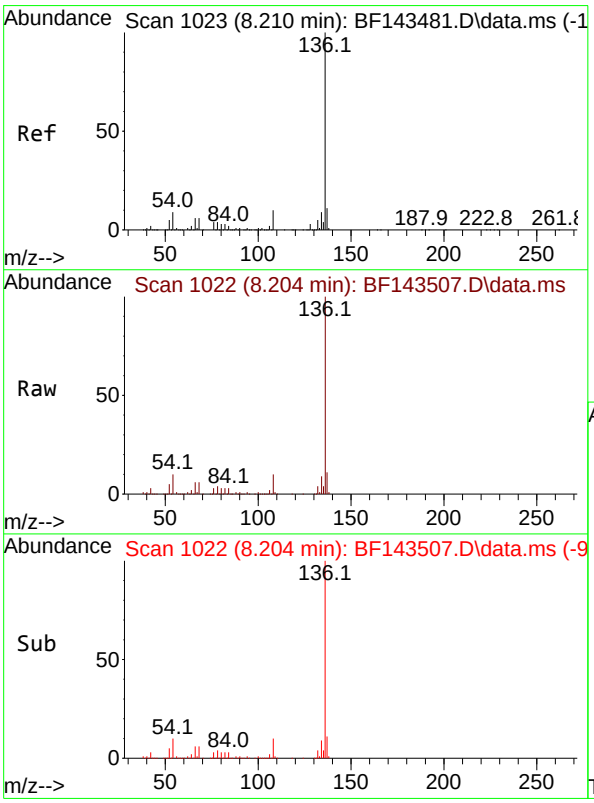
#7
Phenol-d6
Concen: 90.586 ng
RT: 6.557 min Scan# 7
Delta R.T. -0.018 min
Lab File: BF143507.D
Acq: 21 Aug 2025 02:25

Instrument :
BNA_F
ClientSampleId :
38M-W

Tgt Ion: 99 Resp: 850891

Ion	Ratio	Lower	Upper
99	100		
42	20.7	16.3	24.5
71	36.2	28.2	42.2

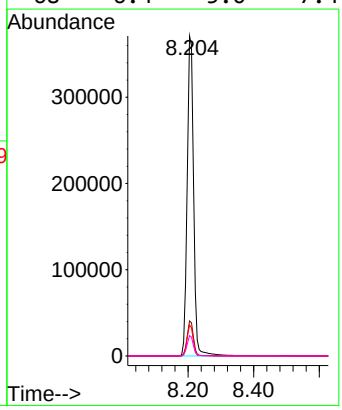


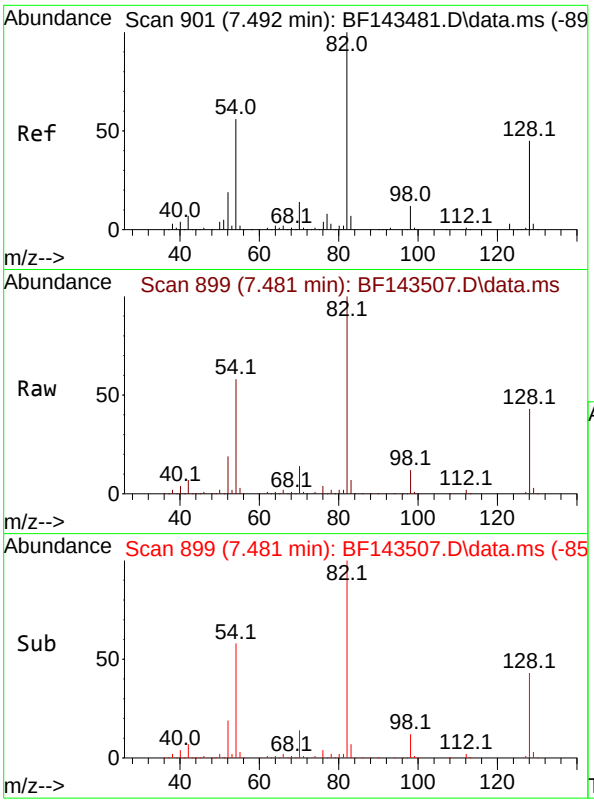


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.204 min Scan# 1022
Delta R.T. -0.006 min
Lab File: BF143507.D
Acq: 21 Aug 2025 02:25

Tgt Ion:136 Resp: 502084

Ion	Ratio	Lower	Upper
136	100		
137	11.0	9.0	13.4
54	9.7	7.4	11.2
68	6.4	5.0	7.4



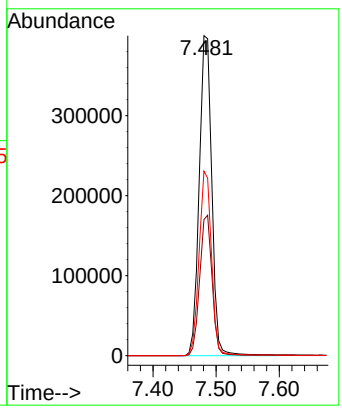


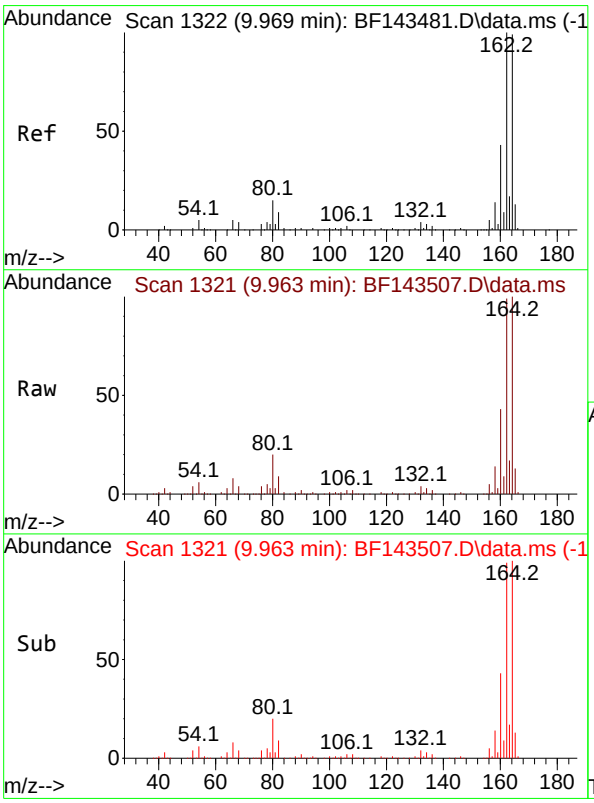
#23
Nitrobenzene-d5
Concen: 64.399 ng
RT: 7.481 min Scan# 8
Delta R.T. -0.018 min
Lab File: BF143507.D
Acq: 21 Aug 2025 02:25

Instrument :
BNA_F
ClientSampleId :
38M-W

Tgt Ion: 82 Resp: 554091

Ion	Ratio	Lower	Upper
82	100		
128	42.5	35.5	53.3
54	57.7	44.3	66.5

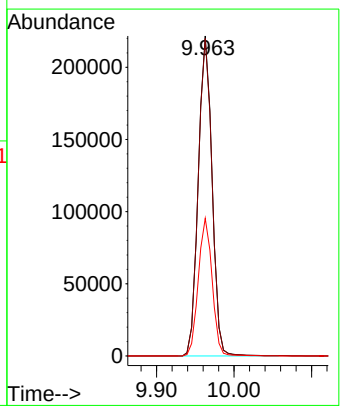


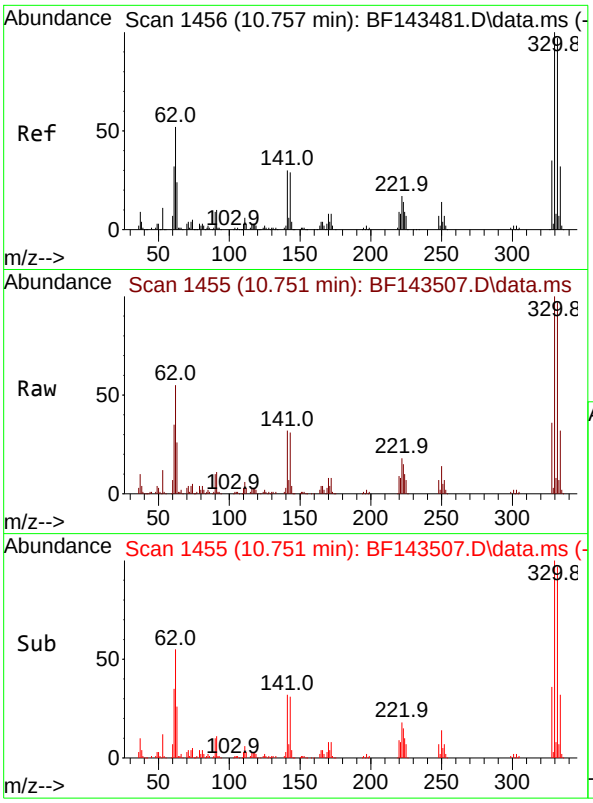


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.963 min Scan# 1321
Delta R.T. -0.006 min
Lab File: BF143507.D
Acq: 21 Aug 2025 02:25

Tgt Ion:164 Resp: 273604

Ion	Ratio	Lower	Upper
164	100		
162	99.2	80.5	120.7
160	43.0	34.3	51.5



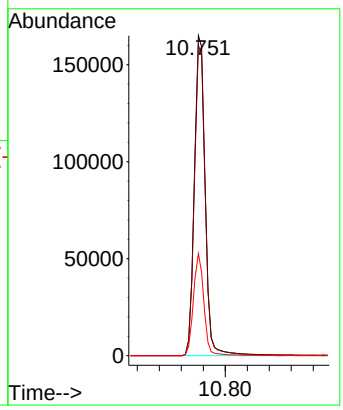


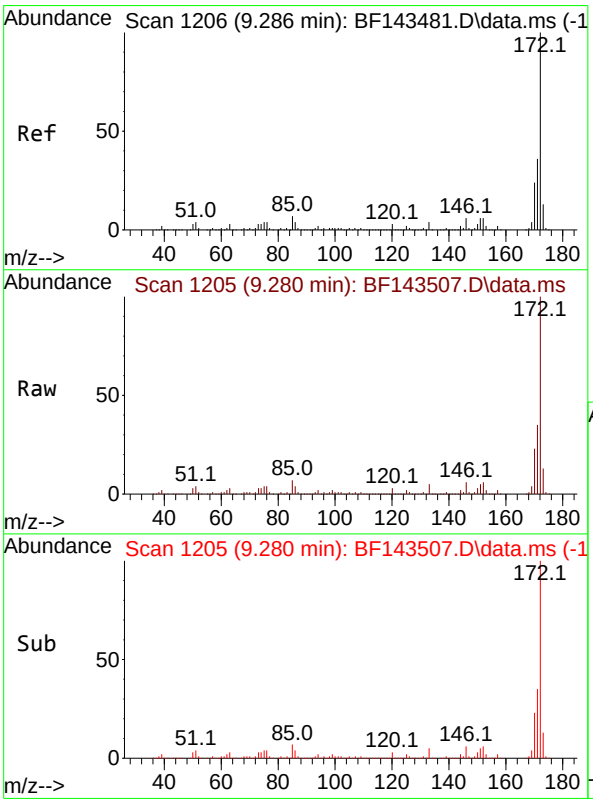
#42
2,4,6-Tribromophenol
Concen: 88.776 ng
RT: 10.751 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF143507.D
Acq: 21 Aug 2025 02:25

Instrument :
BNA_F
ClientSampleId :
38M-W

Tgt Ion:330 Resp: 226099

Ion	Ratio	Lower	Upper
330	100		
332	97.0	78.0	117.0
141	30.9	23.7	35.5

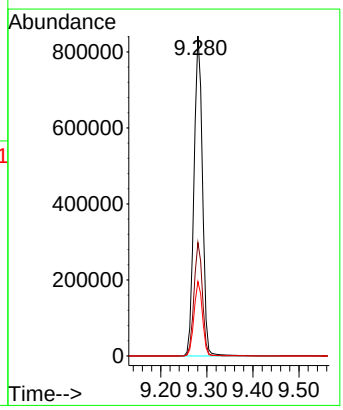


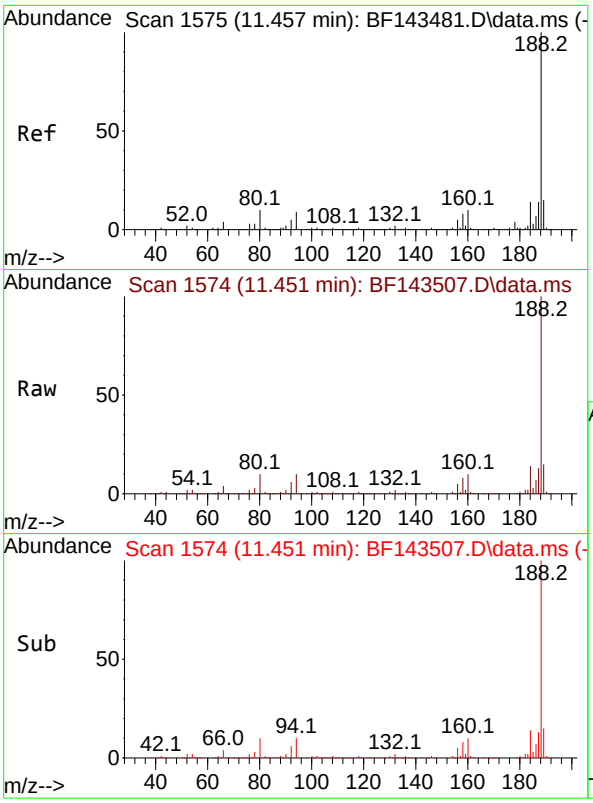


#45
2-Fluorobiphenyl
Concen: 64.844 ng
RT: 9.280 min Scan# 1205
Delta R.T. -0.006 min
Lab File: BF143507.D
Acq: 21 Aug 2025 02:25

Tgt Ion:172 Resp: 1073508

Ion	Ratio	Lower	Upper
172	100		
171	35.4	28.8	43.2
170	23.2	18.8	28.2



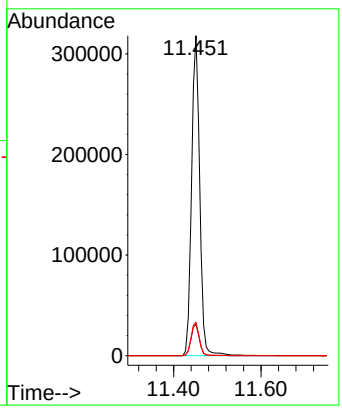


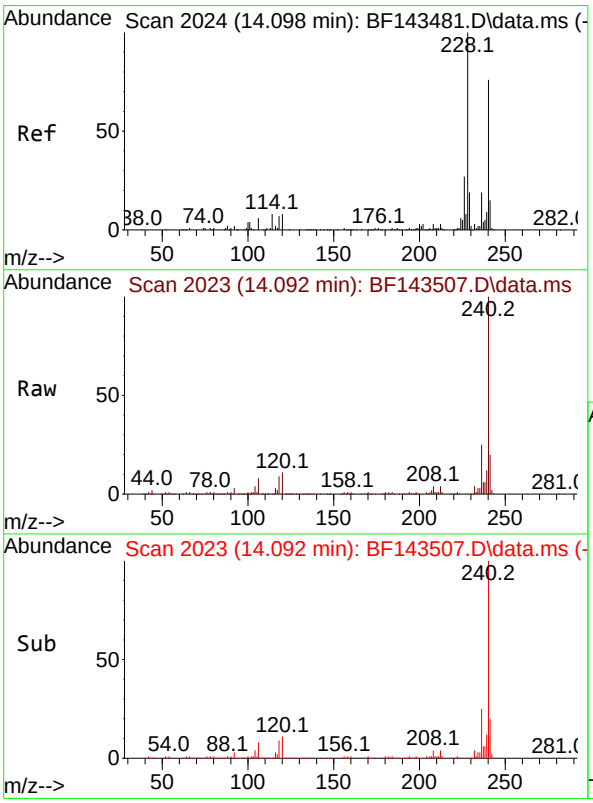
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.451 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143507.D
Acq: 21 Aug 2025 02:25

Instrument :
BNA_F
ClientSampleId :
38M-W

Tgt Ion:188 Resp: 412276

Ion	Ratio	Lower	Upper
188	100		
94	9.7	7.4	11.2
80	10.4	8.2	12.4

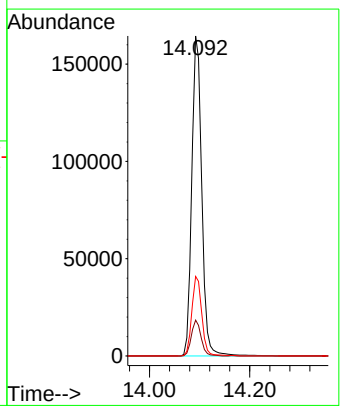


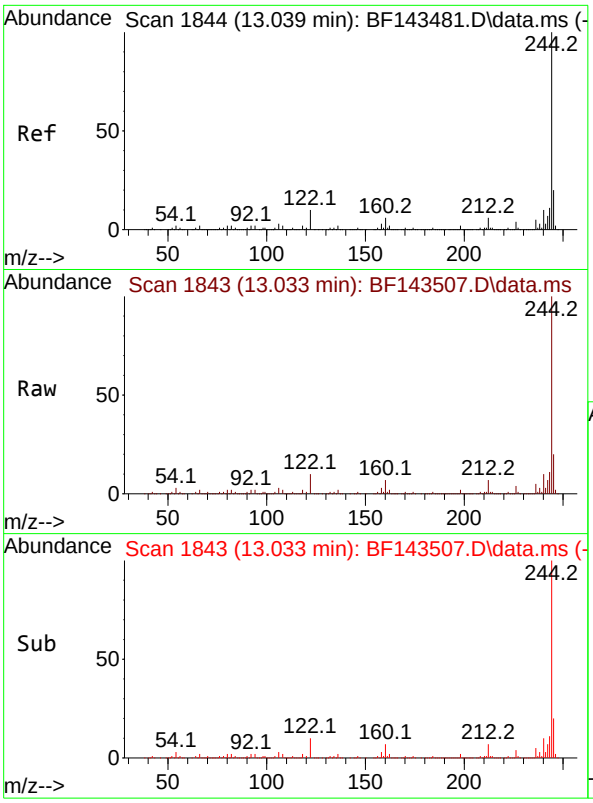


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.092 min Scan# 2023
Delta R.T. -0.012 min
Lab File: BF143507.D
Acq: 21 Aug 2025 02:25

Tgt Ion:240 Resp: 227079

Ion	Ratio	Lower	Upper
240	100		
120	11.2	8.6	12.8
236	24.9	20.4	30.6



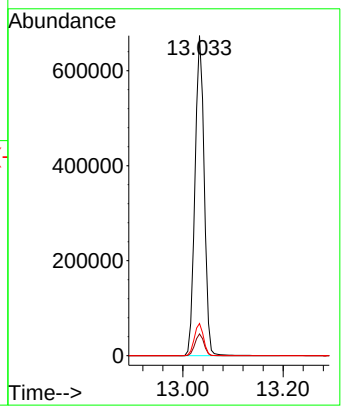


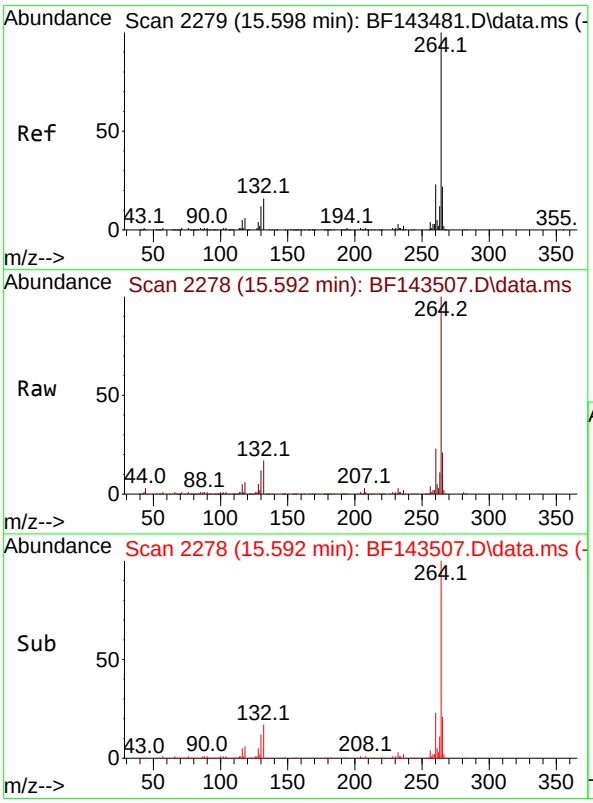
#79
Terphenyl-d14
Concen: 65.696 ng
RT: 13.033 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143507.D
Acq: 21 Aug 2025 02:25

Instrument :
BNA_F
ClientSampleId :
38M-W

Tgt Ion:244 Resp: 854893

Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.2	7.8
122	10.0	7.9	11.9

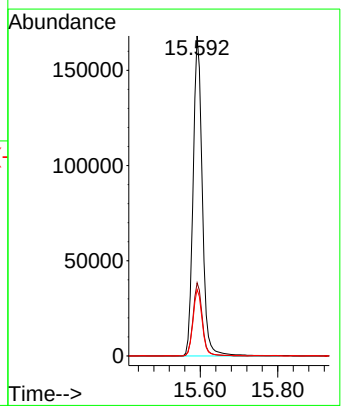




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.592 min Scan# 2278
Delta R.T. -0.006 min
Lab File: BF143507.D
Acq: 21 Aug 2025 02:25

Tgt Ion:264 Resp: 276806

Ion	Ratio	Lower	Upper
264	100		
260	22.8	18.7	28.1
265	20.7	17.6	26.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082025\
Data File : BF143507.D
Acq On : 21 Aug 2025 02:25
Operator : RC/JU
Sample : Q2819-18
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
38M-W

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-BF082025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF143507.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.263	5	12	27	rVB	689825	1109828	36.04%	5.261%
2	5.157	494	504	523	rBV	178408	278428	9.04%	1.320%
3	5.563	567	573	596	rBV	1861011	2488597	80.81%	11.796%
4	6.557	736	742	769	rBV	1820573	2521671	81.88%	11.953%
5	6.928	799	805	814	rBV	618848	789215	25.63%	3.741%
6	7.481	893	899	911	rBV	1203460	1663813	54.03%	7.887%
7	8.204	1017	1022	1049	rVB	766475	1022958	33.22%	4.849%
8	9.280	1199	1205	1210	rBV	2456455	3079676	100.00%	14.598%
9	9.963	1316	1321	1335	rVB	923842	1139257	36.99%	5.400%
10	10.674	1437	1442	1450	rBV	323747	409276	13.29%	1.940%
11	10.751	1450	1455	1472	rVV	1292393	1713318	55.63%	8.121%
12	10.980	1487	1494	1505	rVB	40858	59048	1.92%	0.280%
13	11.451	1569	1574	1589	rBV	787766	1015905	32.99%	4.816%
14	11.974	1658	1663	1673	rBV2	40335	77681	2.52%	0.368%
15	12.851	1807	1812	1817	rVB	25660	31622	1.03%	0.150%
16	13.033	1837	1843	1848	rBV	1785400	2253430	73.17%	10.682%
17	13.986	1998	2005	2015	rBV9	9734	34638	1.12%	0.164%
18	14.092	2018	2023	2037	rVB	441103	603519	19.60%	2.861%
19	15.592	2272	2278	2292	rBV	437816	723508	23.49%	3.430%
20	16.056	2352	2357	2367	rVB	27654	49371	1.60%	0.234%
21	16.580	2441	2446	2452	rVB	17472	31622	1.03%	0.150%

Sum of corrected areas: 21096381

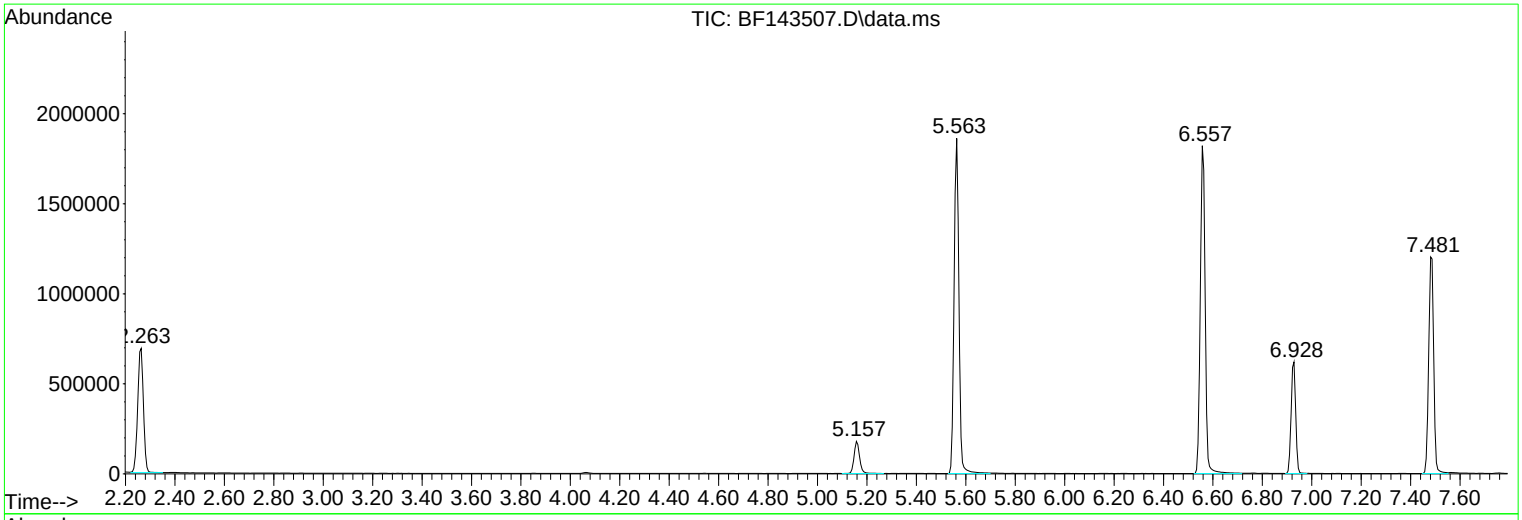
Sample Results: **BF143507.D**

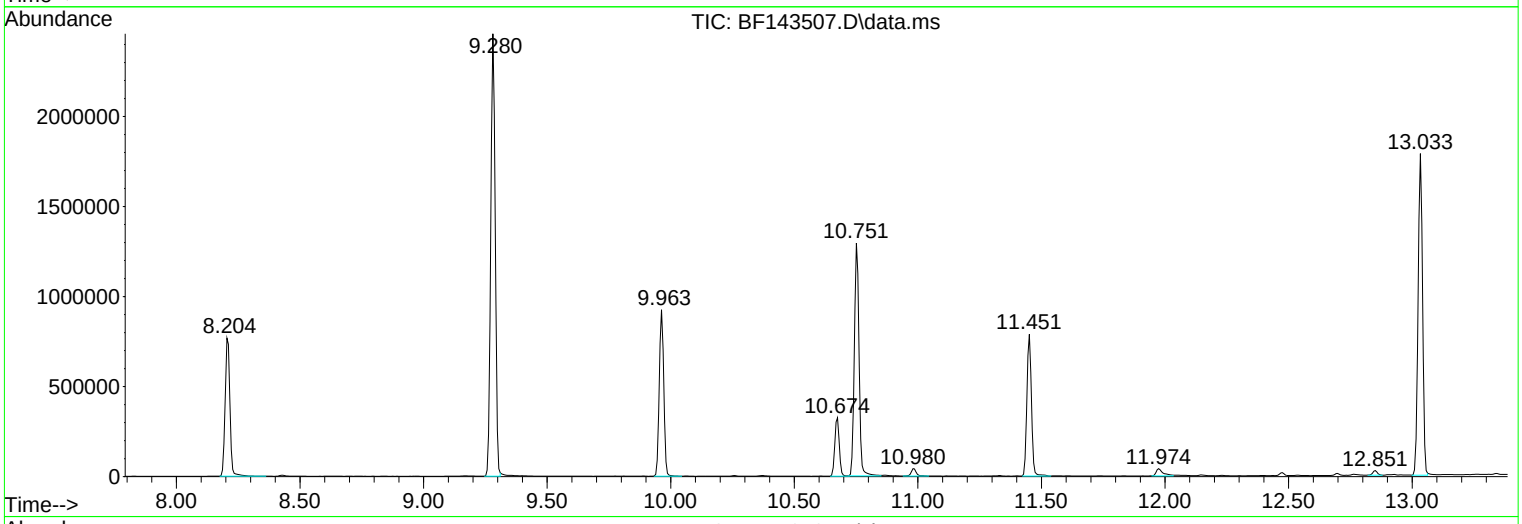
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082025\
Data File : BF143507.D
Acq On : 21 Aug 2025 02:25
Operator : RC/JU
Sample : Q2819-18
Misc :
ALS Vial : 31 Sample Multiplier: 1

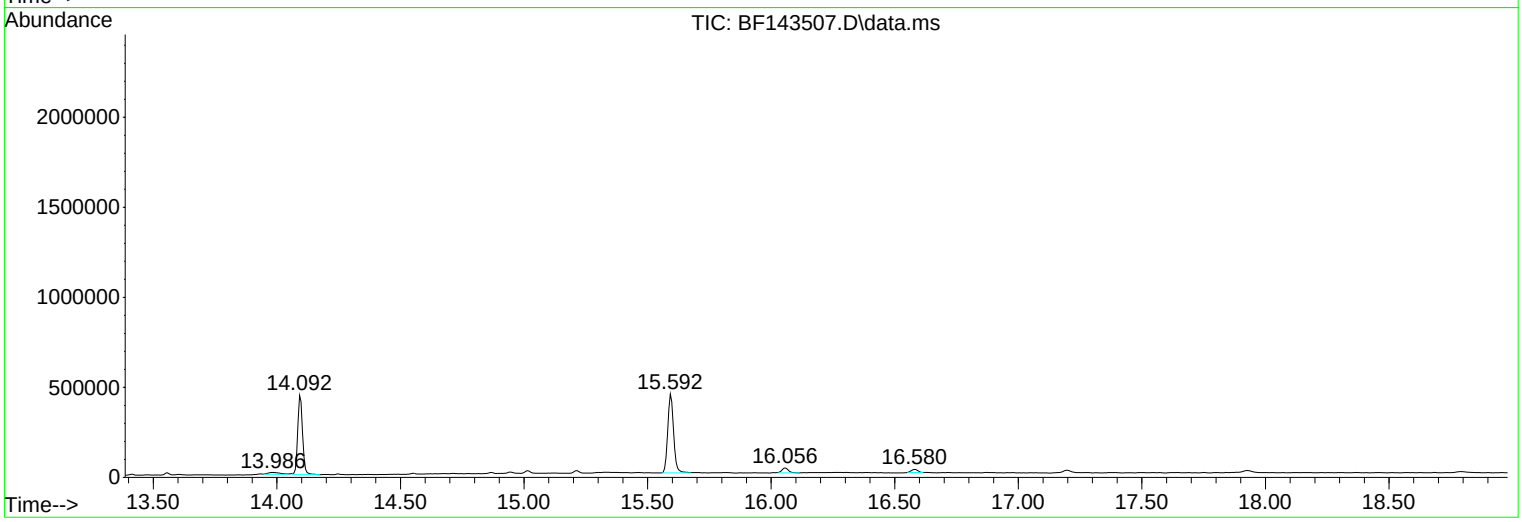
Instrument :
BNA_F
ClientSampleId :
38M-W

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.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\BF082025\
Data File : BF143507.D
Acq On : 21 Aug 2025 02:25
Operator : RC/JU
Sample : Q2819-18
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
38M-W

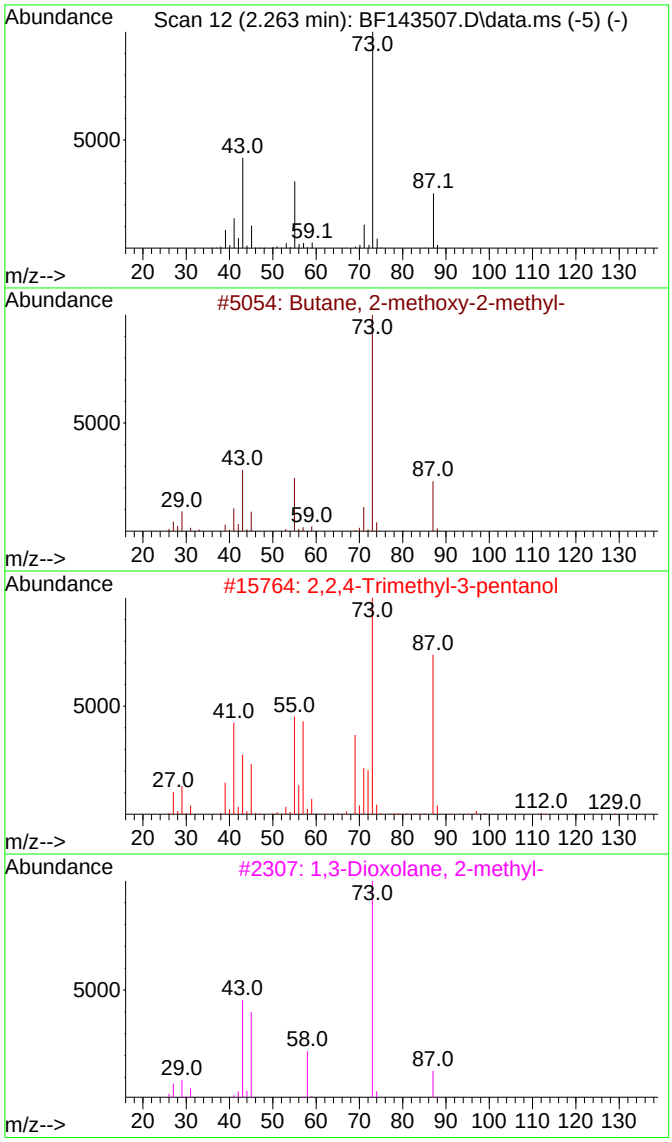
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

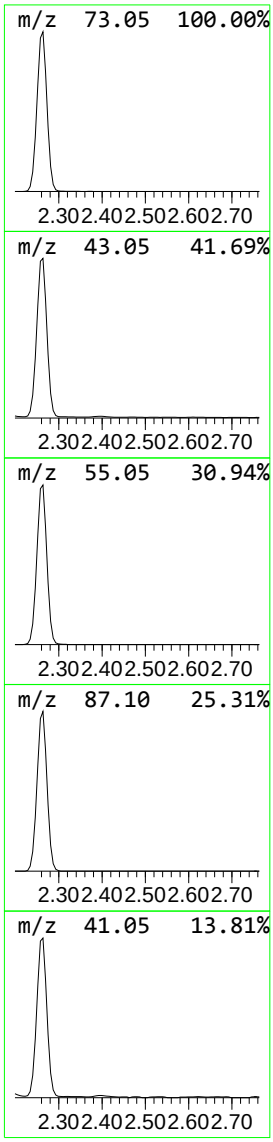
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.263	28.12 ng	1109830	1,4-Dichlorobenzene-d4	6.928

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	83
2	2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	39
3	1,3-Dioxolane, 2-methyl-	88	C4H8O2	000497-26-7	25
4	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	12
5	Silane, tetramethyl-	88	C4H12Si	000075-76-3	10





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082025\
Data File : BF143507.D
Acq On : 21 Aug 2025 02:25
Operator : RC/JU
Sample : Q2819-18
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
38M-W

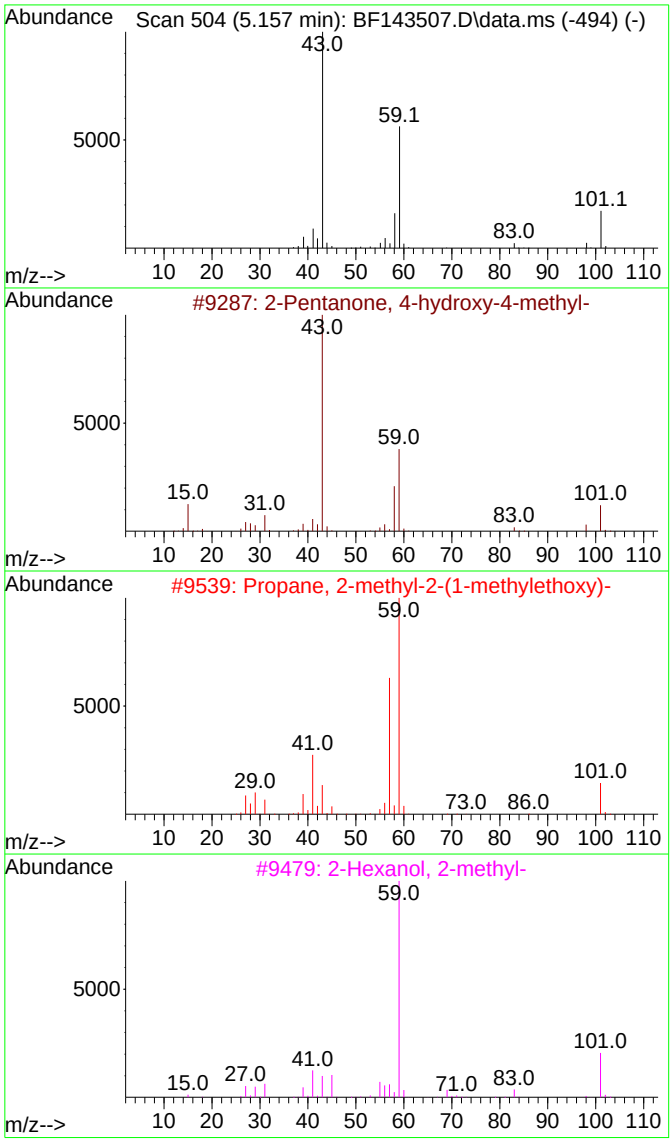
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

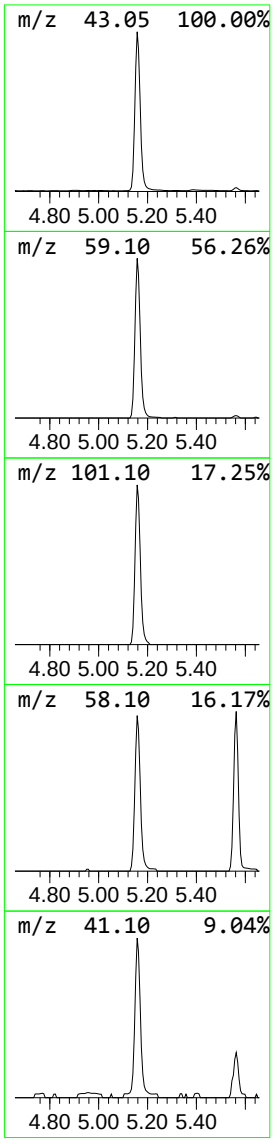
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.157	7.06 ng	278428	1,4-Dichlorobenzene-d4	6.928

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	59
2	Propane, 2-methyl-2-(1-methyleth...	116	C7H16O	017348-59-3	36
3	2-Hexanol, 2-methyl-	116	C7H16O	000625-23-0	28
4	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	23
5	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	12





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082025\
Data File : BF143507.D
Acq On : 21 Aug 2025 02:25
Operator : RC/JU
Sample : Q2819-18
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
38M-W

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

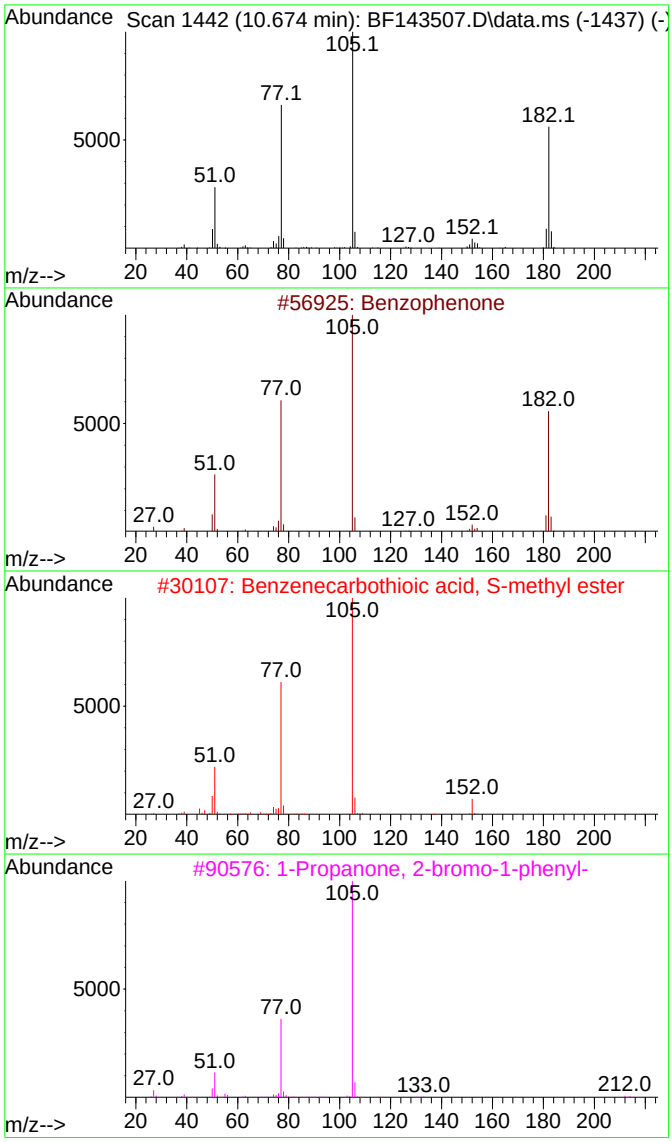
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

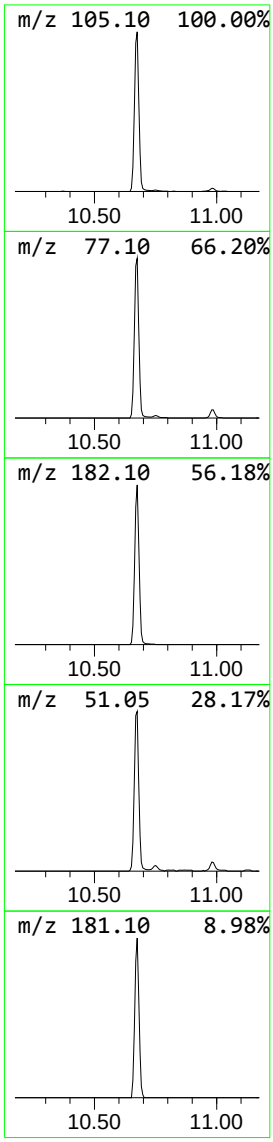
****

Peak Number 3 Benzophenone Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.675	7.18 ng	409276	Acenaphthene-d10	9.963

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	49
3	1-Propanone, 2-bromo-1-phenyl-	212	C9H9BrO	002114-00-3	47
4	Benzenebutanoic acid, .gamma.-oxo-	178	C10H10O3	002051-95-8	47
5	1,2-Propanedione, 1-phenyl-	148	C9H8O2	000579-07-7	47





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082025\
Data File : BF143507.D
Acq On : 21 Aug 2025 02:25
Operator : RC/JU
Sample : Q2819-18
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
38M-W

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.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...	2.263	28.1	ng	1109830	1	6.928	789215	20.0
2-Pentanone, 4-...	5.157	7.1	ng	278428	1	6.928	789215	20.0
Benzophenone	10.675	7.2	ng	409276	3	9.963	1139260	20.0

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/06/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	38M-E	SDG No.:	Q2819
Lab Sample ID:	Q2819-19	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	87.8
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143508.D	1	08/15/25 08:25	08/21/25 02:54	PB169259

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
100-52-7	Benzaldehyde	310	U	180	310	380	ug/Kg
108-95-2	Phenol	150	U	25.1	150	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	150	U	27.6	150	190	ug/Kg
95-57-8	2-Chlorophenol	150	U	27.7	150	190	ug/Kg
95-48-7	2-Methylphenol	150	U	34.0	150	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	150	U	42.6	150	190	ug/Kg
98-86-2	Acetophenone	150	U	33.5	150	190	ug/Kg
65794-96-9	3+4-Methylphenols	310	U	46.7	310	380	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	90.9	U	53.9	90.9	90.9	ug/Kg
67-72-1	Hexachloroethane	150	U	20.0	150	190	ug/Kg
98-95-3	Nitrobenzene	150	U	20.8	150	190	ug/Kg
78-59-1	Isophorone	150	U	37.3	150	190	ug/Kg
88-75-5	2-Nitrophenol	150	U	66.2	150	190	ug/Kg
105-67-9	2,4-Dimethylphenol	150	U	73.7	150	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	150	U	35.0	150	190	ug/Kg
120-83-2	2,4-Dichlorophenol	150	U	32.2	150	190	ug/Kg
91-20-3	Naphthalene	150	U	25.8	150	190	ug/Kg
106-47-8	4-Chloroaniline	150	U	40.2	150	190	ug/Kg
87-68-3	Hexachlorobutadiene	150	U	28.8	150	190	ug/Kg
105-60-2	Caprolactam	310	U	59.2	310	380	ug/Kg
59-50-7	4-Chloro-3-methylphenol	150	U	32.6	150	190	ug/Kg
91-57-6	2-Methylnaphthalene	150	U	29.1	150	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	310	U	130	310	380	ug/Kg
88-06-2	2,4,6-Trichlorophenol	150	U	22.5	150	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	150	U	33.1	150	190	ug/Kg
92-52-4	1,1-Biphenyl	150	U	24.8	150	190	ug/Kg
91-58-7	2-Chloronaphthalene	150	U	25.6	150	190	ug/Kg
88-74-4	2-Nitroaniline	150	U	54.7	150	190	ug/Kg
131-11-3	Dimethylphthalate	150	U	30.8	150	190	ug/Kg

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Fax : 908 789 8922

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/06/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	38M-E	SDG No.:	Q2819
Lab Sample ID:	Q2819-19	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	87.8
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143508.D	1	08/15/25 08:25	08/21/25 02:54	PB169259

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	150	U	32.9	150	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	150	U	38.2	150	190	ug/Kg
99-09-2	3-Nitroaniline	150	U	52.3	150	190	ug/Kg
83-32-9	Acenaphthene	150	U	24.2	150	190	ug/Kg
51-28-5	2,4-Dinitrophenol	310	U	260	310	380	ug/Kg
100-02-7	4-Nitrophenol	310	U	120	310	380	ug/Kg
132-64-9	Dibenzofuran	150	U	25.8	150	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	150	U	56.9	150	190	ug/Kg
84-66-2	Diethylphthalate	150	U	32.2	150	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	150	U	30.3	150	190	ug/Kg
86-73-7	Fluorene	150	U	28.8	150	190	ug/Kg
100-01-6	4-Nitroaniline	150	U	73.0	150	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	310	U	120	310	380	ug/Kg
86-30-6	n-Nitrosodiphenylamine	150	U	37.4	150	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	150	U	31.6	150	190	ug/Kg
118-74-1	Hexachlorobenzene	150	U	28.8	150	190	ug/Kg
1912-24-9	Atrazine	150	U	38.6	150	190	ug/Kg
87-86-5	Pentachlorophenol	310	U	58.3	310	380	ug/Kg
85-01-8	Phenanthrene	150	U	23.8	150	190	ug/Kg
120-12-7	Anthracene	150	U	37.9	150	190	ug/Kg
86-74-8	Carbazole	150	U	35.5	150	190	ug/Kg
84-74-2	Di-n-butylphthalate	150	U	54.4	150	190	ug/Kg
206-44-0	Fluoranthene	150	U	34.1	150	190	ug/Kg
129-00-0	Pyrene	150	U	40.9	150	190	ug/Kg
85-68-7	Butylbenzylphthalate	150	U	81.2	150	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	310	U	41.7	310	380	ug/Kg
56-55-3	Benzo(a)anthracene	150	U	26.1	150	190	ug/Kg
218-01-9	Chrysene	150	U	22.6	150	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	150	U	67.3	150	190	ug/Kg
117-84-0	Di-n-octyl phthalate	310	U	98.7	310	380	ug/Kg
205-99-2	Benzo(b)fluoranthene	150	U	21.6	150	190	ug/Kg

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Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/06/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	38M-E	SDG No.:	Q2819
Lab Sample ID:	Q2819-19	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	87.8
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143508.D	1	08/15/25 08:25	08/21/25 02:54	PB169259

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	150	U	25.5	150	190	ug/Kg
50-32-8	Benzo(a)pyrene	150	U	33.5	150	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	150	U	33.1	150	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	150	U	31.1	150	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	150	U	29.2	150	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	150	U	29.1	150	190	ug/Kg
123-91-1	1,4-Dioxane	150	U	51.4	150	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	150	U	31.1	150	190	ug/Kg
SURROGATES							
367-12-4	2-Fluorophenol	79.5		35 - 115		53%	SPK: 150
13127-88-3	Phenol-d6	85.1		34 - 127		57%	SPK: 150
4165-60-0	Nitrobenzene-d5	57.0		37 - 122		57%	SPK: 100
321-60-8	2-Fluorobiphenyl	57.6		44 - 115		58%	SPK: 100
118-79-6	2,4,6-Tribromophenol	87.2		39 - 132		58%	SPK: 150
1718-51-0	Terphenyl-d14	60.2		54 - 127		60%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	134000	6.928				
1146-65-2	Naphthalene-d8	514000	8.204				
15067-26-2	Acenaphthene-d10	272000	9.963				
1517-22-2	Phenanthrene-d10	412000	11.451				
1719-03-5	Chrysene-d12	230000	14.092				
1520-96-3	Perylene-d12	280000	15.592				
TENTATIVE IDENTIFIED COMPOUNDS							
000994-05-8	Butane, 2-methoxy-2-methyl-	990	J			2.26	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	240	AB			5.16	ug/Kg
000119-61-9	Benzophenone	240	J			10.7	ug/Kg

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Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/06/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	38M-E	SDG No.:	Q2819
Lab Sample ID:	Q2819-19	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	87.8
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143508.D	1	08/15/25 08:25	08/21/25 02:54	PB169259

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	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\BF082025\
Data File : BF143508.D
Acq On : 21 Aug 2025 02:54
Operator : RC/JU
Sample : Q2819-19
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
38M-E

Quant Time: Aug 21 04:08:00 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 20 15:07:46 2025
Response via : Initial Calibration

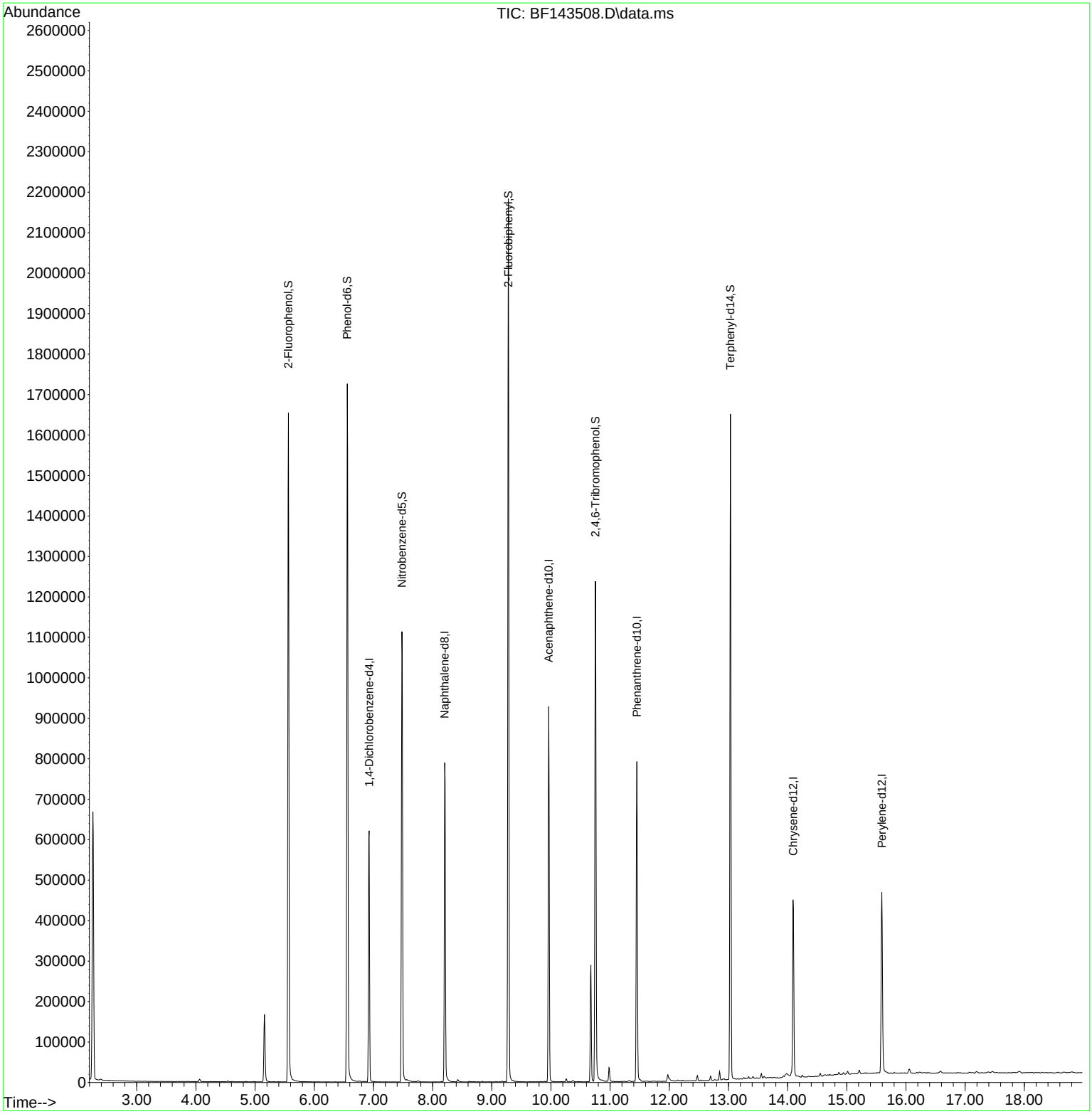
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.928	152	134162	20.000	ng	0.00
21) Naphthalene-d8	8.204	136	513690	20.000	ng	0.00
39) Acenaphthene-d10	9.963	164	272115	20.000	ng	0.00
64) Phenanthrene-d10	11.451	188	411656	20.000	ng	0.00
76) Chrysene-d12	14.092	240	229541	20.000	ng	-0.01
86) Perylene-d12	15.592	264	280374	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.563	112	610870	79.507	ng	0.00
7) Phenol-d6	6.557	99	807216	85.108	ng	-0.02
23) Nitrobenzene-d5	7.481	82	501521	56.972	ng	-0.02
42) 2,4,6-Tribromophenol	10.751	330	220877	87.200	ng	-0.01
45) 2-Fluorobiphenyl	9.281	172	948780	57.624	ng	0.00
79) Terphenyl-d14	13.033	244	791913	60.204	ng	0.00
Target Compounds						Qvalue

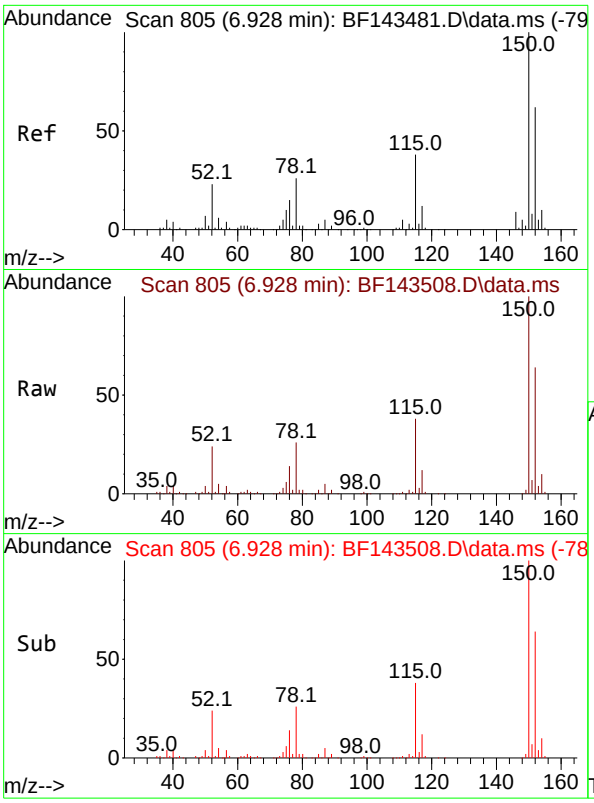
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082025\
Data File : BF143508.D
Acq On : 21 Aug 2025 02:54
Operator : RC/JU
Sample : Q2819-19
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
38M-E

Quant Time: Aug 21 04:08:00 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 20 15:07:46 2025
Response via : Initial Calibration



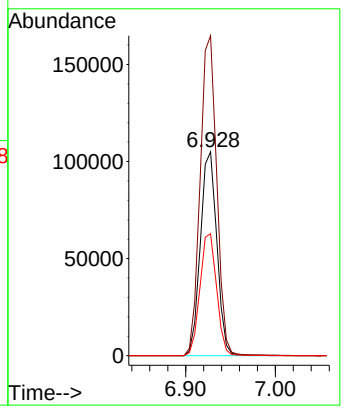


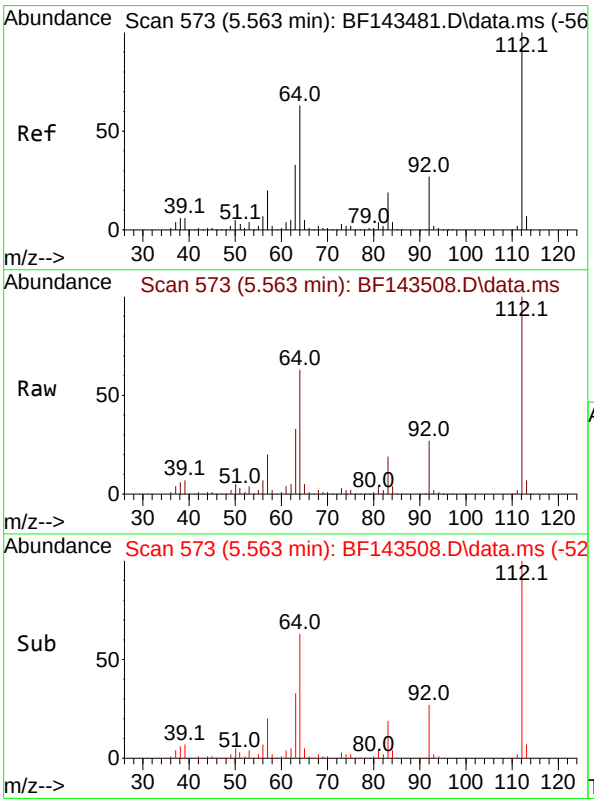
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.928 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF143508.D
Acq: 21 Aug 2025 02:54

Instrument :
BNA_F
ClientSampleId :
38M-E

Tgt Ion:152 Resp: 134162

Ion	Ratio	Lower	Upper
152	100		
150	157.0	128.9	193.3
115	59.8	49.2	73.8

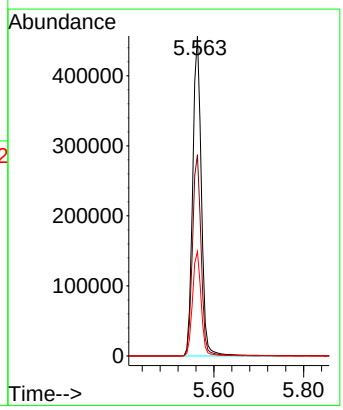


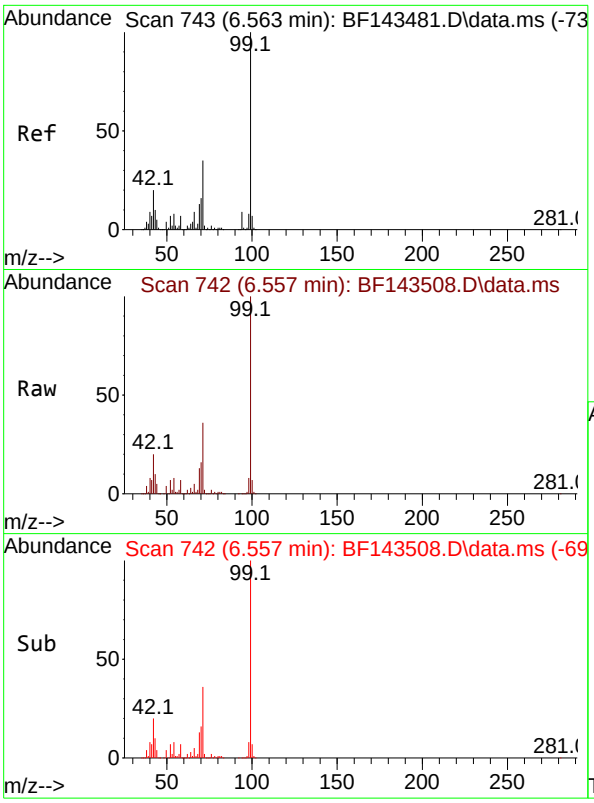


#5
2-Fluorophenol
Concen: 79.507 ng
RT: 5.563 min Scan# 573
Delta R.T. -0.000 min
Lab File: BF143508.D
Acq: 21 Aug 2025 02:54

Tgt Ion:112 Resp: 610870

Ion	Ratio	Lower	Upper
112	100		
64	62.9	50.4	75.6
63	32.6	26.4	39.6



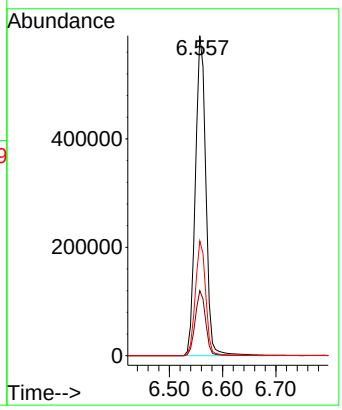


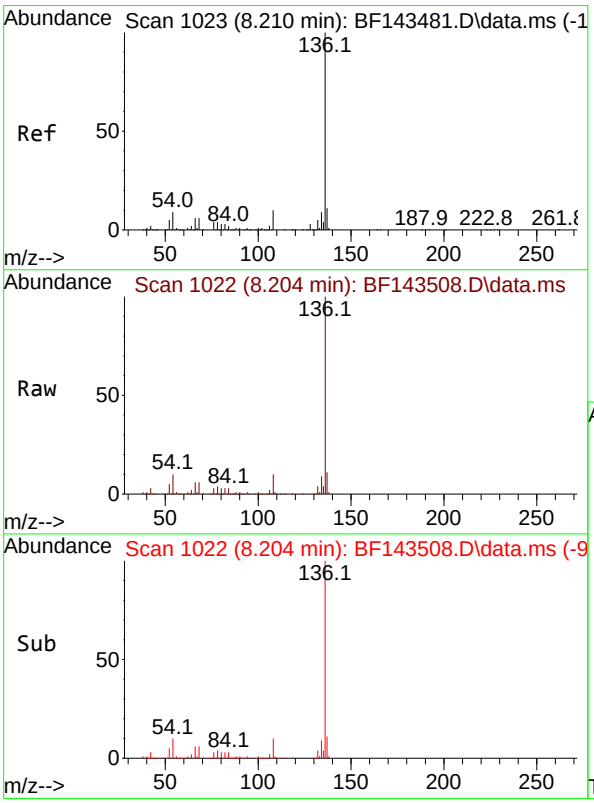
#7
Phenol-d6
Concen: 85.108 ng
RT: 6.557 min Scan# 7
Delta R.T. -0.018 min
Lab File: BF143508.D
Acq: 21 Aug 2025 02:54

Instrument :
BNA_F
ClientSampleId :
38M-E

Tgt Ion: 99 Resp: 807216

Ion	Ratio	Lower	Upper
99	100		
42	20.3	16.3	24.5
71	35.9	28.2	42.2

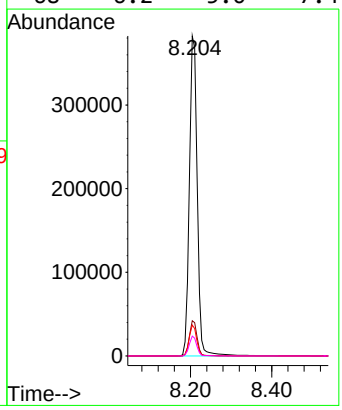


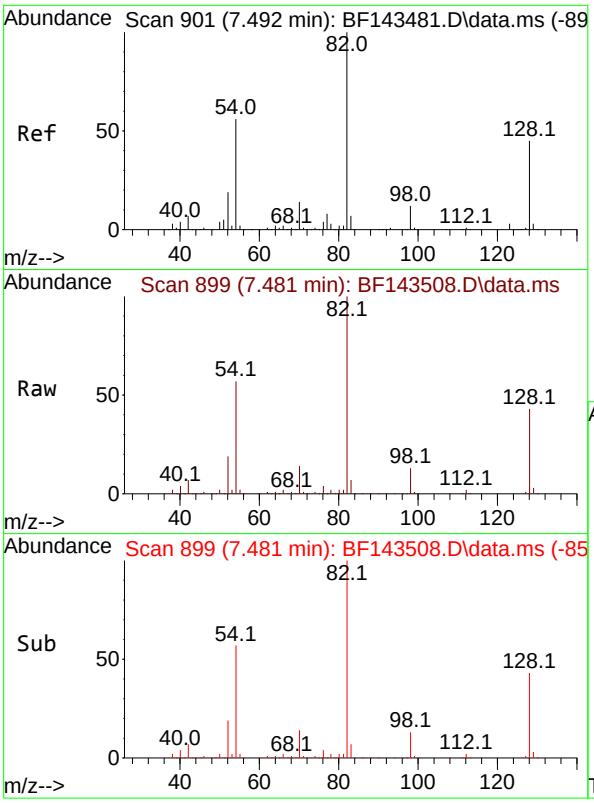


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.204 min Scan# 1022
Delta R.T. -0.006 min
Lab File: BF143508.D
Acq: 21 Aug 2025 02:54

Tgt Ion:136 Resp: 513690

Ion	Ratio	Lower	Upper
136	100		
137	11.0	9.0	13.4
54	9.7	7.4	11.2
68	6.2	5.0	7.4



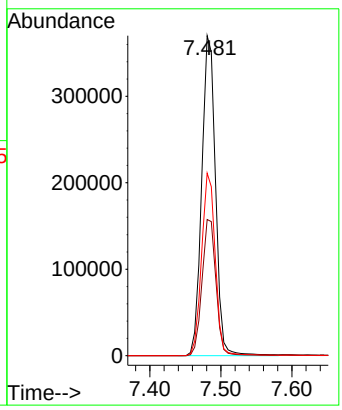


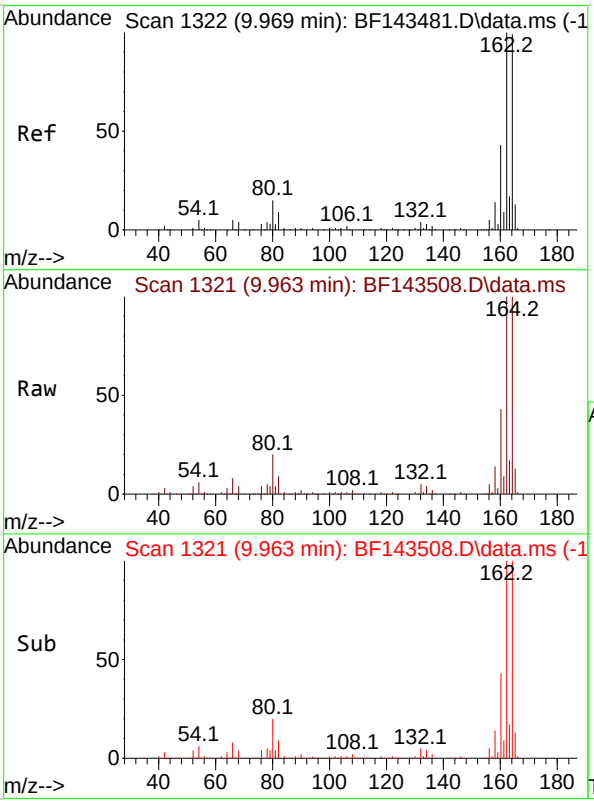
#23
Nitrobenzene-d5
Concen: 56.972 ng
RT: 7.481 min Scan# 8
Delta R.T. -0.018 min
Lab File: BF143508.D
Acq: 21 Aug 2025 02:54

Instrument :
BNA_F
ClientSampleId :
38M-E

Tgt Ion: 82 Resp: 501521

Ion	Ratio	Lower	Upper
82	100		
128	42.6	35.5	53.3
54	57.0	44.3	66.5

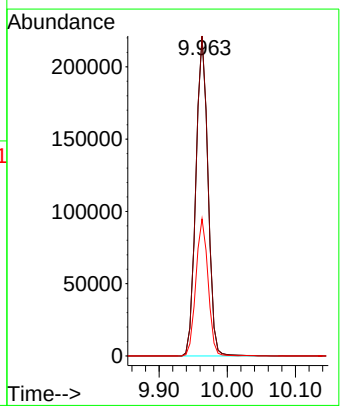


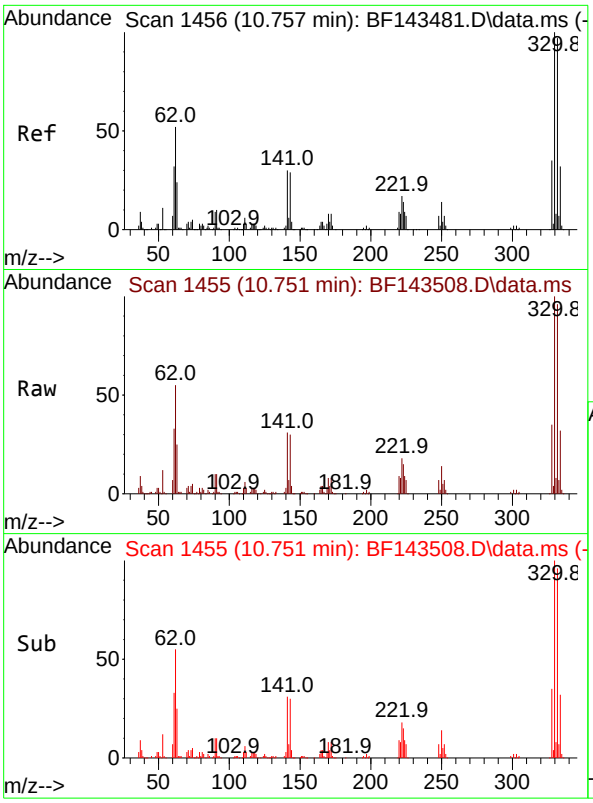


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.963 min Scan# 1321
Delta R.T. -0.006 min
Lab File: BF143508.D
Acq: 21 Aug 2025 02:54

Tgt Ion:164 Resp: 272115

Ion	Ratio	Lower	Upper
164	100		
162	100.2	80.5	120.7
160	42.9	34.3	51.5



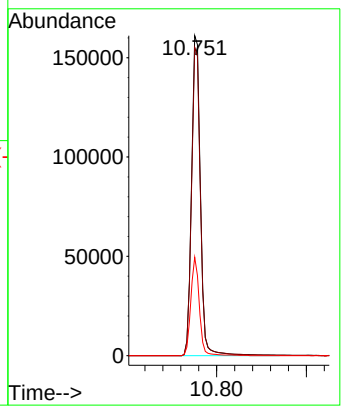


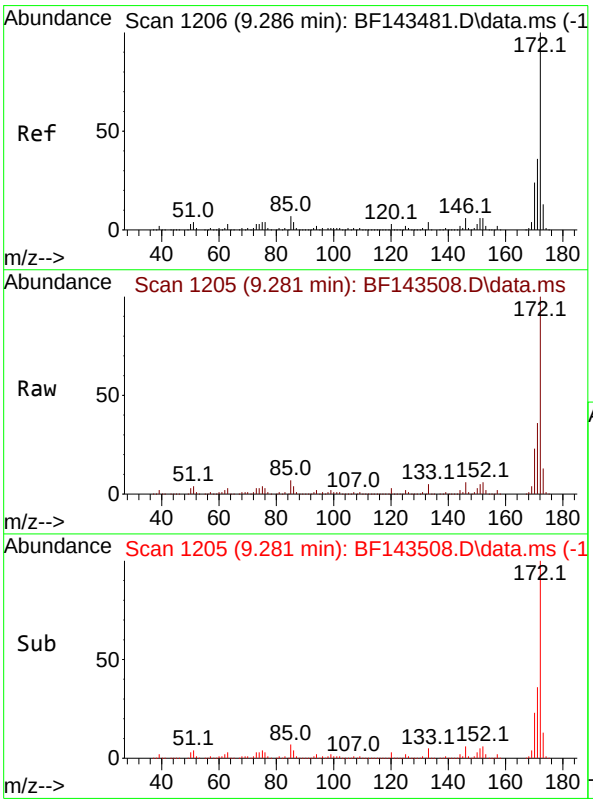
#42
2,4,6-Tribromophenol
Concen: 87.200 ng
RT: 10.751 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF143508.D
Acq: 21 Aug 2025 02:54

Instrument :
BNA_F
ClientSampleId :
38M-E

Tgt Ion:330 Resp: 220877

Ion	Ratio	Lower	Upper
330	100		
332	96.3	78.0	117.0
141	29.7	23.7	35.5

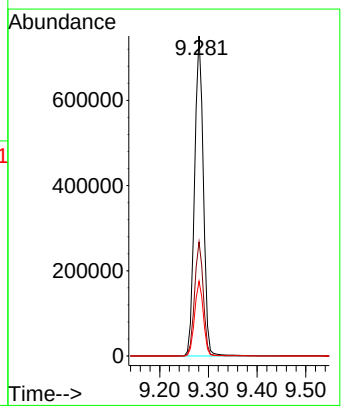


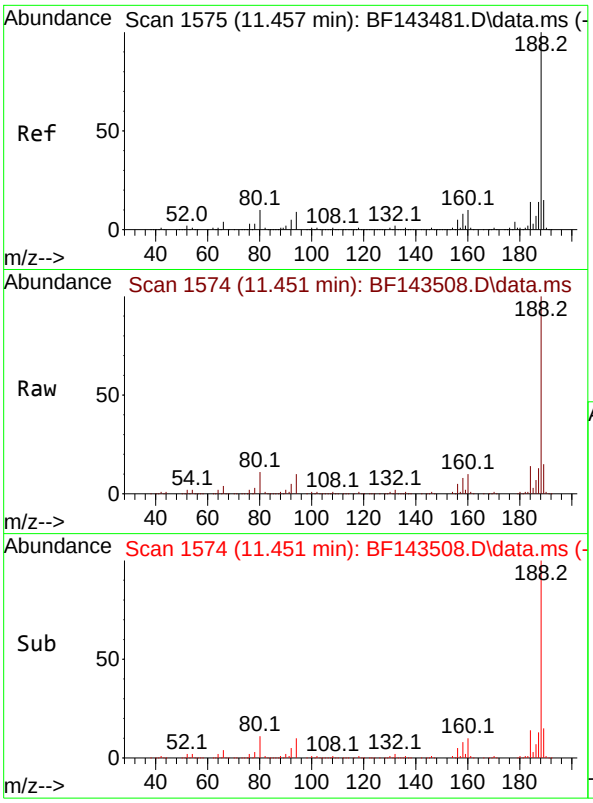


#45
2-Fluorobiphenyl
Concen: 57.624 ng
RT: 9.281 min Scan# 1205
Delta R.T. -0.006 min
Lab File: BF143508.D
Acq: 21 Aug 2025 02:54

Tgt Ion:172 Resp: 948780

Ion	Ratio	Lower	Upper
172	100		
171	35.7	28.8	43.2
170	23.3	18.8	28.2



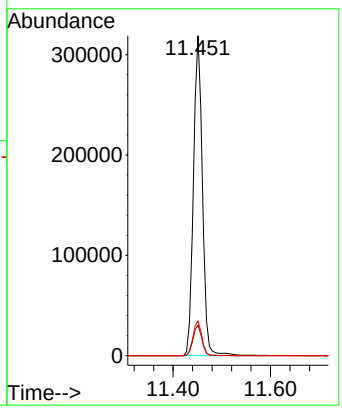


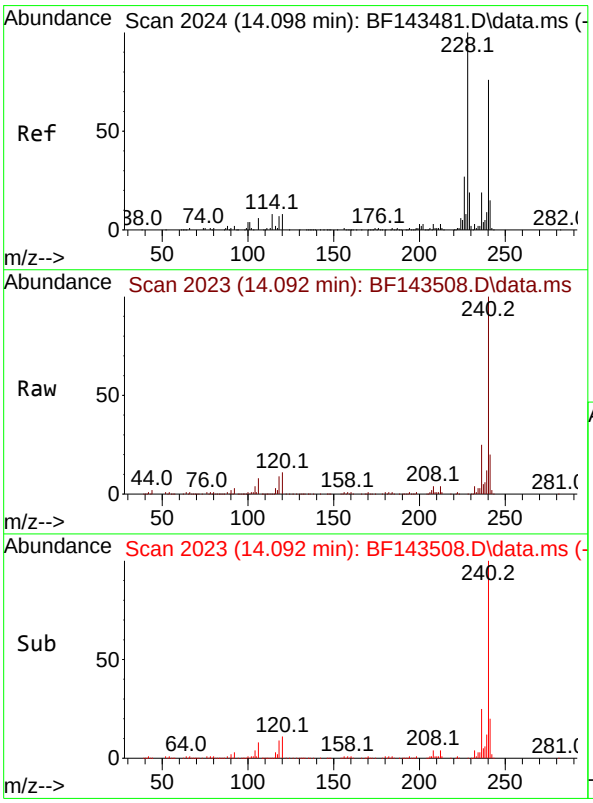
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.451 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143508.D
Acq: 21 Aug 2025 02:54

Instrument :
BNA_F
ClientSampleId :
38M-E

Tgt Ion:188 Resp: 411656

Ion	Ratio	Lower	Upper
188	100		
94	9.5	7.4	11.2
80	10.8	8.2	12.4

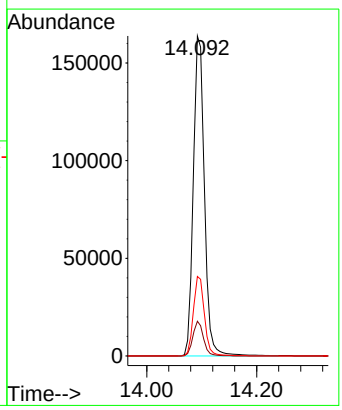


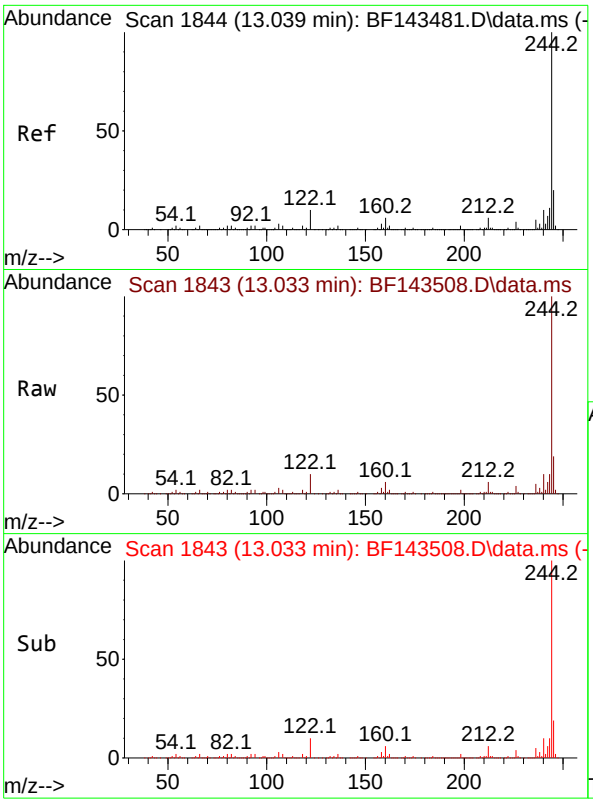


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.092 min Scan# 2023
Delta R.T. -0.012 min
Lab File: BF143508.D
Acq: 21 Aug 2025 02:54

Tgt Ion:240 Resp: 229541

Ion	Ratio	Lower	Upper
240	100		
120	10.8	8.6	12.8
236	24.9	20.4	30.6



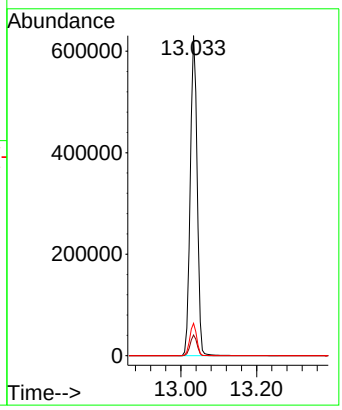


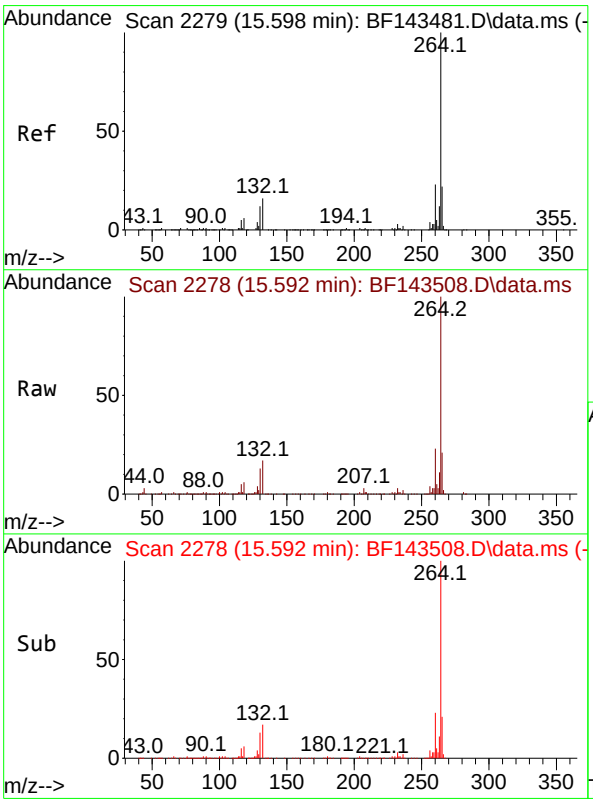
#79
Terphenyl-d14
Concen: 60.204 ng
RT: 13.033 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143508.D
Acq: 21 Aug 2025 02:54

Instrument :
BNA_F
ClientSampleId :
38M-E

Tgt Ion:244 Resp: 791913

Ion	Ratio	Lower	Upper
244	100		
212	6.4	5.2	7.8
122	10.1	7.9	11.9

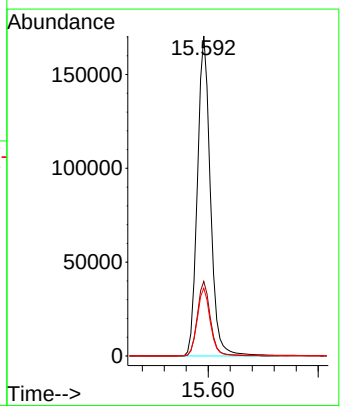




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.592 min Scan# 2278
Delta R.T. -0.006 min
Lab File: BF143508.D
Acq: 21 Aug 2025 02:54

Tgt Ion:264 Resp: 280374

Ion	Ratio	Lower	Upper
264	100		
260	23.3	18.7	28.1
265	21.2	17.6	26.4



Sample Results: **BF143508.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082025\
Data File : BF143508.D
Acq On : 21 Aug 2025 02:54
Operator : RC/JU
Sample : Q2819-19
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
38M-E

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-BF082025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF143508.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.257	4	11	28	rVB	663135	1043440	38.12%	5.338%
2	5.157	496	504	517	rBV	166792	251273	9.18%	1.285%
3	5.563	567	573	594	rBV	1653478	2205316	80.56%	11.281%
4	6.557	736	742	772	rBV	1725129	2368423	86.52%	12.116%
5	6.928	799	805	814	rBV	620149	799014	29.19%	4.087%
6	7.481	893	899	911	rBV	1112859	1501961	54.86%	7.683%
7	8.204	1017	1022	1046	rBV	788908	1045880	38.20%	5.350%
8	9.281	1199	1205	1216	rBV	2181917	2737562	100.00%	14.004%
9	9.963	1316	1321	1340	rVB	927546	1141730	41.71%	5.840%
10	10.675	1437	1442	1450	rBV	288279	361042	13.19%	1.847%
11	10.751	1450	1455	1472	rBV	1235517	1632169	59.62%	8.349%
12	10.980	1490	1494	1504	rVB	34315	46977	1.72%	0.240%
13	11.451	1569	1574	1582	rBV	790030	1001999	36.60%	5.126%
14	11.974	1655	1663	1667	rBV3	16431	27718	1.01%	0.142%
15	13.033	1838	1843	1848	rBV	1644492	2049210	74.86%	10.483%
16	14.092	2015	2023	2033	rVB	436114	606226	22.14%	3.101%
17	15.592	2272	2278	2296	rVB	446221	728692	26.62%	3.728%

Sum of corrected areas: 19548632

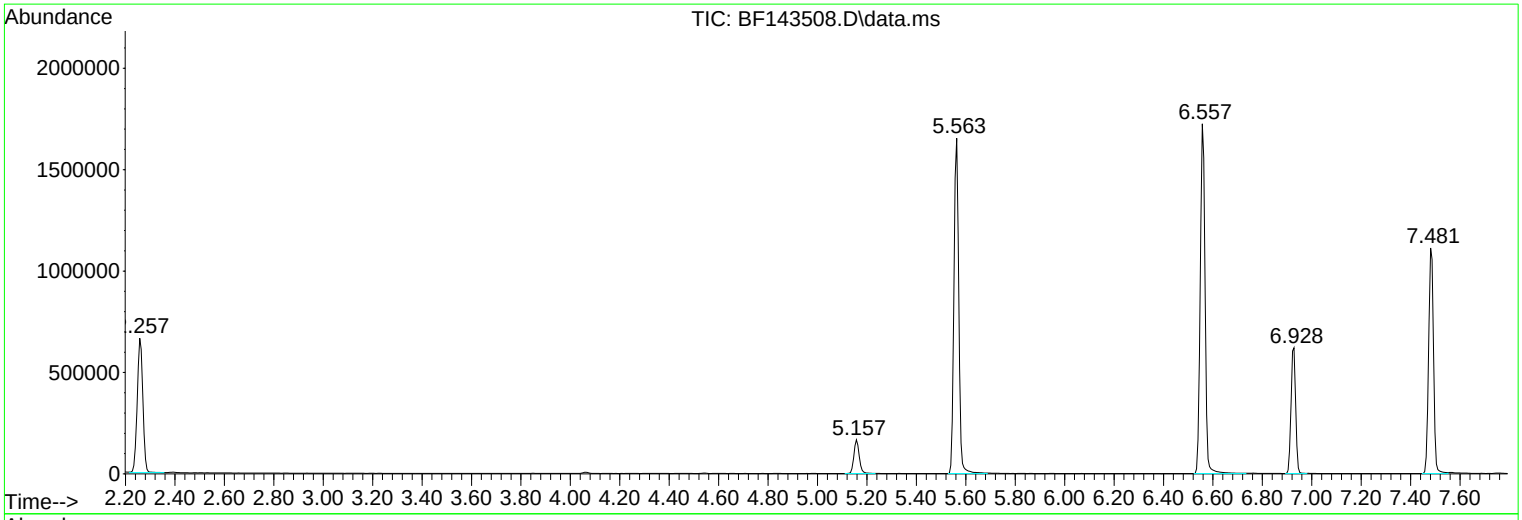
Sample Results: **BF143508.D**

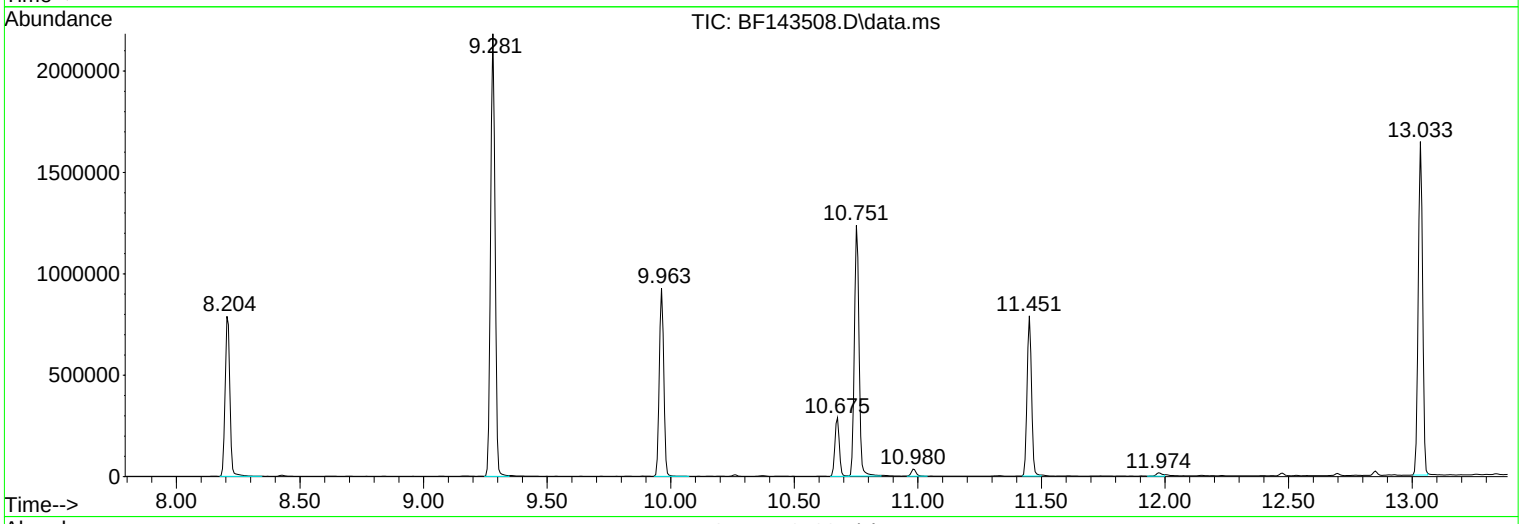
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082025\
Data File : BF143508.D
Acq On : 21 Aug 2025 02:54
Operator : RC/JU
Sample : Q2819-19
Misc :
ALS Vial : 32 Sample Multiplier: 1

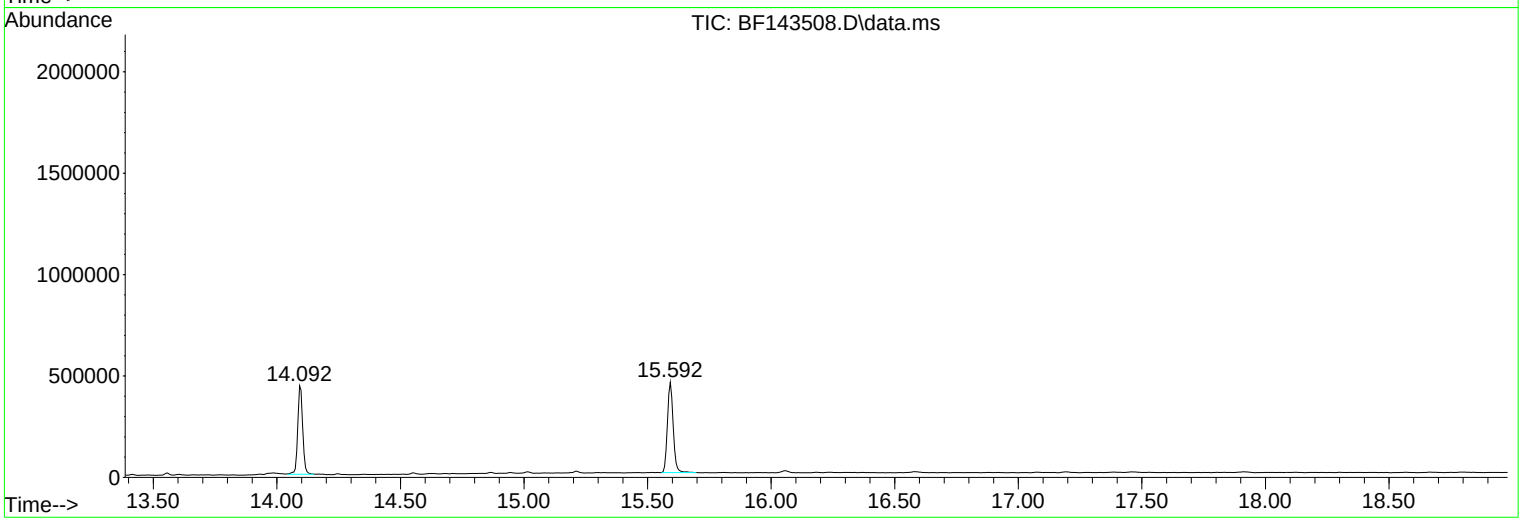
Instrument :
BNA_F
ClientSampleId :
38M-E

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.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\BF082025\
Data File : BF143508.D
Acq On : 21 Aug 2025 02:54
Operator : RC/JU
Sample : Q2819-19
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
38M-E

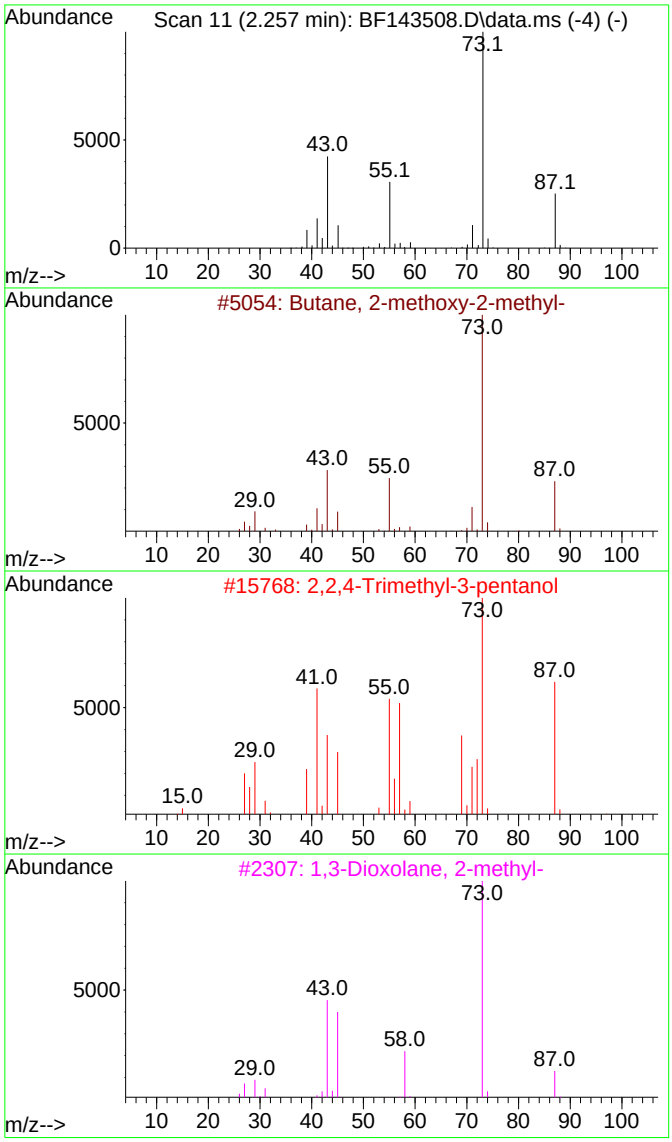
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

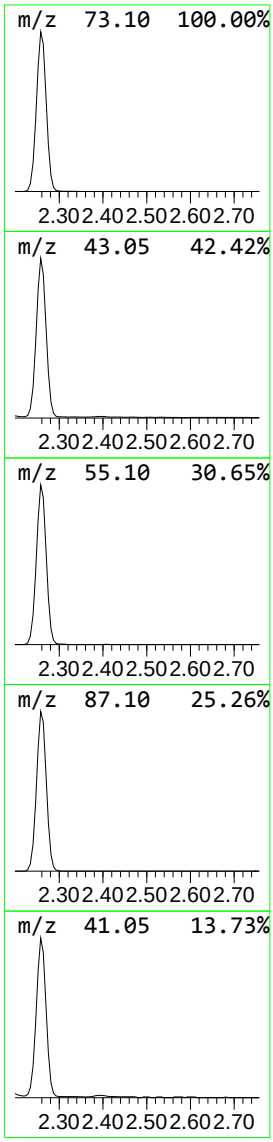
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.257	26.12 ng	1043440	1,4-Dichlorobenzene-d4	6.928

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	83
2	2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	39
3	1,3-Dioxolane, 2-methyl-	88	C4H8O2	000497-26-7	25
4	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	12
5	Acetamide, N-ethyl-	87	C4H9NO	000625-50-3	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082025\
Data File : BF143508.D
Acq On : 21 Aug 2025 02:54
Operator : RC/JU
Sample : Q2819-19
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
38M-E

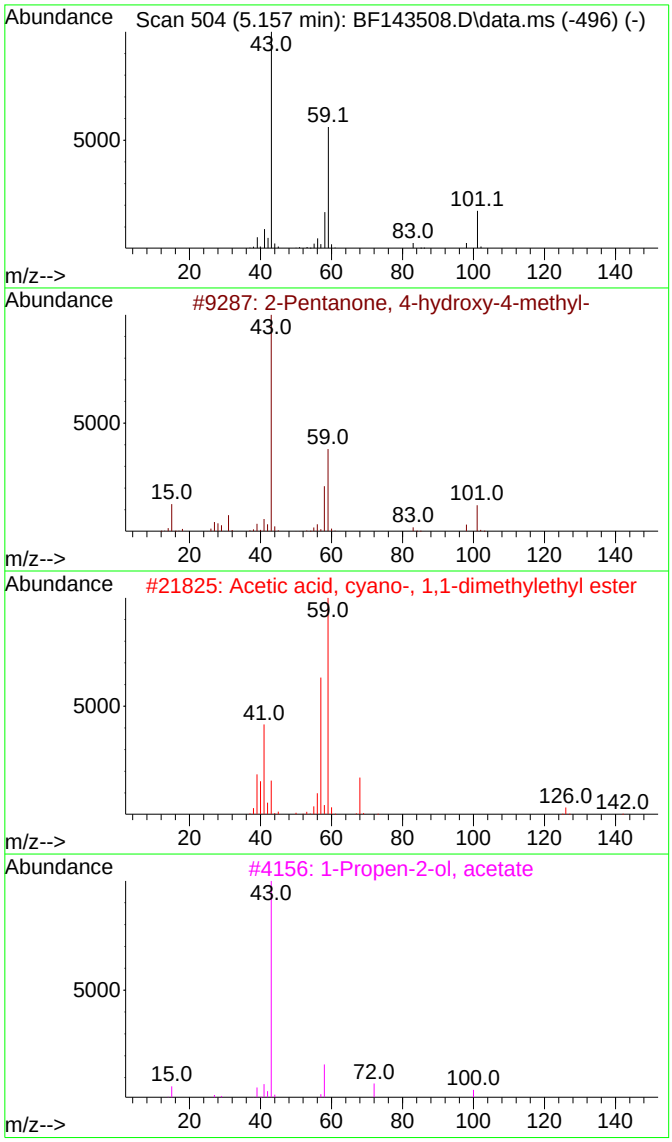
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

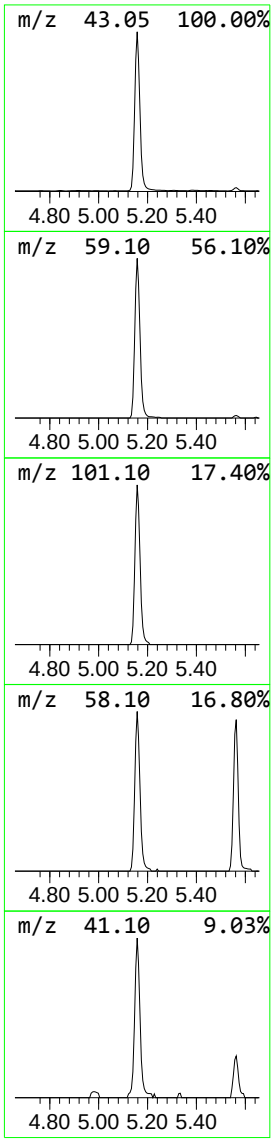
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.157	6.29 ng	251273	1,4-Dichlorobenzene-d4	6.928

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	59
2	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	23
3	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	12
4	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	9
5	Butyl aldoxime, 3-methyl-, syn-	101	C5H11NO	005780-40-5	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082025\
Data File : BF143508.D
Acq On : 21 Aug 2025 02:54
Operator : RC/JU
Sample : Q2819-19
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
38M-E

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

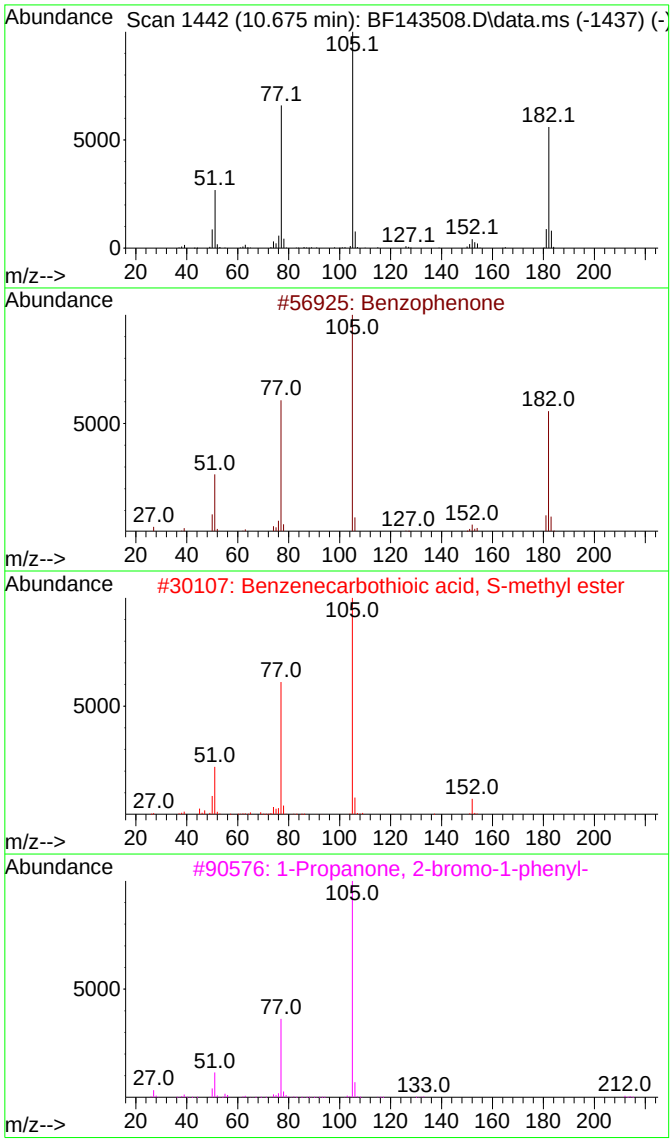
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

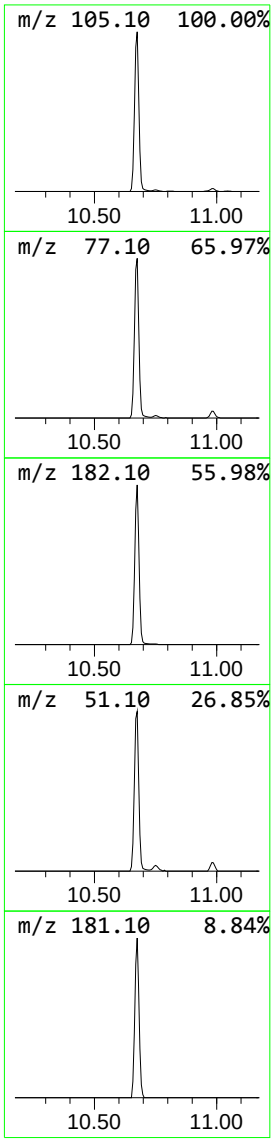
****

Peak Number 3 Benzophenone Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.675	6.32 ng	361042	Acenaphthene-d10	9.963

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	49
3	1-Propanone, 2-bromo-1-phenyl-	212	C9H9BrO	002114-00-3	47
4	Pentafluoroethyl phenyl ketone	224	C9H5F5O	000394-52-5	47
5	acetic acid, 2-bromo-, 2-oxo-2-p...	256	C10H9BrO3	1000401-50-0	47





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082025\
Data File : BF143508.D
Acq On : 21 Aug 2025 02:54
Operator : RC/JU
Sample : Q2819-19
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
38M-E

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.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...	2.257	26.1	ng	1043440	1	6.928	799014	20.0
2-Pentanone, 4-...	5.157	6.3	ng	251273	1	6.928	799014	20.0
Benzophenone	10.675	6.3	ng	361042	3	9.963	1141730	20.0

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/06/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	82H-E	SDG No.:	Q2819
Lab Sample ID:	Q2819-20	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	77.2
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
BF143504.D	1	08/15/25 08:25	08/21/25 00:58	PB169259

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
100-52-7	Benzaldehyde	350	U	200	350	430	ug/Kg
108-95-2	Phenol	170	U	28.6	170	220	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	170	U	31.5	170	220	ug/Kg
95-57-8	2-Chlorophenol	170	U	31.6	170	220	ug/Kg
95-48-7	2-Methylphenol	170	U	38.7	170	220	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	170	U	48.5	170	220	ug/Kg
98-86-2	Acetophenone	170	U	38.2	170	220	ug/Kg
65794-96-9	3+4-Methylphenols	350	U	53.2	350	430	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	100	U	61.4	100	100	ug/Kg
67-72-1	Hexachloroethane	170	U	22.8	170	220	ug/Kg
98-95-3	Nitrobenzene	170	U	23.7	170	220	ug/Kg
78-59-1	Isophorone	170	U	42.5	170	220	ug/Kg
88-75-5	2-Nitrophenol	170	U	75.3	170	220	ug/Kg
105-67-9	2,4-Dimethylphenol	170	U	83.9	170	220	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	170	U	39.9	170	220	ug/Kg
120-83-2	2,4-Dichlorophenol	170	U	36.6	170	220	ug/Kg
91-20-3	Naphthalene	170	U	29.4	170	220	ug/Kg
106-47-8	4-Chloroaniline	170	U	45.8	170	220	ug/Kg
87-68-3	Hexachlorobutadiene	170	U	32.8	170	220	ug/Kg
105-60-2	Caprolactam	350	U	67.4	350	430	ug/Kg
59-50-7	4-Chloro-3-methylphenol	170	U	37.2	170	220	ug/Kg
91-57-6	2-Methylnaphthalene	170	U	33.1	170	220	ug/Kg
77-47-4	Hexachlorocyclopentadiene	350	U	150	350	430	ug/Kg
88-06-2	2,4,6-Trichlorophenol	170	U	25.6	170	220	ug/Kg
95-95-4	2,4,5-Trichlorophenol	170	U	37.7	170	220	ug/Kg
92-52-4	1,1-Biphenyl	170	U	28.2	170	220	ug/Kg
91-58-7	2-Chloronaphthalene	170	U	29.1	170	220	ug/Kg
88-74-4	2-Nitroaniline	170	U	62.3	170	220	ug/Kg
131-11-3	Dimethylphthalate	170	U	35.1	170	220	ug/Kg

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/06/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	82H-E	SDG No.:	Q2819
Lab Sample ID:	Q2819-20	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	77.2
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
BF143504.D	1	08/15/25 08:25	08/21/25 00:58	PB169259

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	170	U	37.4	170	220	ug/Kg
606-20-2	2,6-Dinitrotoluene	170	U	43.5	170	220	ug/Kg
99-09-2	3-Nitroaniline	170	U	59.5	170	220	ug/Kg
83-32-9	Acenaphthene	170	U	27.6	170	220	ug/Kg
51-28-5	2,4-Dinitrophenol	350	U	300	350	430	ug/Kg
100-02-7	4-Nitrophenol	350	U	140	350	430	ug/Kg
132-64-9	Dibenzofuran	170	U	29.4	170	220	ug/Kg
121-14-2	2,4-Dinitrotoluene	170	U	64.9	170	220	ug/Kg
84-66-2	Diethylphthalate	170	U	36.6	170	220	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	170	U	34.6	170	220	ug/Kg
86-73-7	Fluorene	170	U	32.8	170	220	ug/Kg
100-01-6	4-Nitroaniline	170	U	83.1	170	220	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	350	U	130	350	430	ug/Kg
86-30-6	n-Nitrosodiphenylamine	170	U	42.6	170	220	ug/Kg
101-55-3	4-Bromophenyl-phenylether	170	U	36.0	170	220	ug/Kg
118-74-1	Hexachlorobenzene	170	U	32.8	170	220	ug/Kg
1912-24-9	Atrazine	170	U	44.0	170	220	ug/Kg
87-86-5	Pentachlorophenol	350	U	66.4	350	430	ug/Kg
85-01-8	Phenanthrene	170	U	27.1	170	220	ug/Kg
120-12-7	Anthracene	170	U	43.1	170	220	ug/Kg
86-74-8	Carbazole	170	U	40.4	170	220	ug/Kg
84-74-2	Di-n-butylphthalate	170	U	62.0	170	220	ug/Kg
206-44-0	Fluoranthene	170	U	38.8	170	220	ug/Kg
129-00-0	Pyrene	170	U	46.6	170	220	ug/Kg
85-68-7	Butylbenzylphthalate	170	U	92.4	170	220	ug/Kg
91-94-1	3,3-Dichlorobenzidine	350	U	47.5	350	430	ug/Kg
56-55-3	Benzo(a)anthracene	170	U	29.8	170	220	ug/Kg
218-01-9	Chrysene	170	U	25.8	170	220	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	170	U	76.6	170	220	ug/Kg
117-84-0	Di-n-octyl phthalate	350	U	110	350	430	ug/Kg
205-99-2	Benzo(b)fluoranthene	170	U	24.6	170	220	ug/Kg

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/06/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	82H-E	SDG No.:	Q2819
Lab Sample ID:	Q2819-20	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	77.2
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
BF143504.D	1	08/15/25 08:25	08/21/25 00:58	PB169259

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	170	U	29.0	170	220	ug/Kg
50-32-8	Benzo(a)pyrene	170	U	38.2	170	220	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	170	U	37.7	170	220	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	170	U	35.5	170	220	ug/Kg
191-24-2	Benzo(g,h,i)perylene	170	U	33.3	170	220	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	170	U	33.1	170	220	ug/Kg
123-91-1	1,4-Dioxane	170	U	58.5	170	220	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	170	U	35.5	170	220	ug/Kg
SURROGATES							
367-12-4	2-Fluorophenol	90.2		35 - 115		60%	SPK: 150
13127-88-3	Phenol-d6	92.1		34 - 127		61%	SPK: 150
4165-60-0	Nitrobenzene-d5	65.3		37 - 122		65%	SPK: 100
321-60-8	2-Fluorobiphenyl	62.4		44 - 115		62%	SPK: 100
118-79-6	2,4,6-Tribromophenol	90.6		39 - 132		60%	SPK: 150
1718-51-0	Terphenyl-d14	58.6		54 - 127		59%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	132000	6.928				
1146-65-2	Naphthalene-d8	508000	8.204				
15067-26-2	Acenaphthene-d10	271000	9.963				
1517-22-2	Phenanthrene-d10	403000	11.451				
1719-03-5	Chrysene-d12	245000	14.092				
1520-96-3	Perylene-d12	294000	15.592				
TENTATIVE IDENTIFIED COMPOUNDS							
000994-05-8	Butane, 2-methoxy-2-methyl-	1200	J			2.26	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	300	AB			5.16	ug/Kg
000119-61-9	Benzophenone	320	J			10.7	ug/Kg

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/06/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	82H-E	SDG No.:	Q2819
Lab Sample ID:	Q2819-20	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	77.2
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
BF143504.D	1	08/15/25 08:25	08/21/25 00:58	PB169259

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	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\BF082025\
Data File : BF143504.D
Acq On : 21 Aug 2025 00:58
Operator : RC/JU
Sample : Q2819-20
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
82H-E

Quant Time: Aug 21 02:09:13 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 20 15:07:46 2025
Response via : Initial Calibration

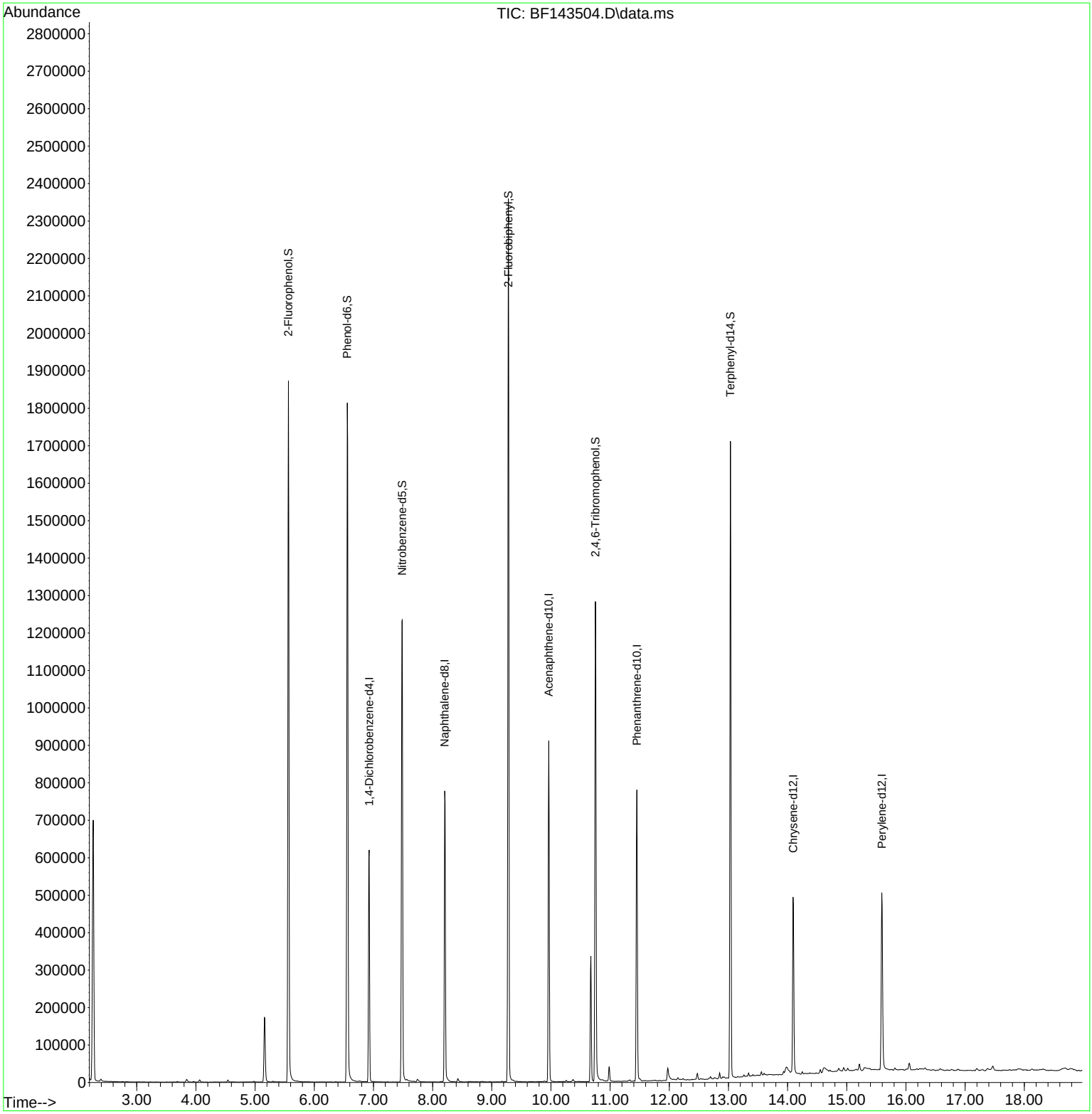
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.928	152	132245	20.000	ng	0.00
21) Naphthalene-d8	8.204	136	508439	20.000	ng	0.00
39) Acenaphthene-d10	9.963	164	271455	20.000	ng	0.00
64) Phenanthrene-d10	11.451	188	403457	20.000	ng	0.00
76) Chrysene-d12	14.092	240	245211	20.000	ng	-0.01
86) Perylene-d12	15.592	264	294419	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.563	112	683090	90.195	ng	0.00
7) Phenol-d6	6.557	99	860932	92.088	ng	-0.02
23) Nitrobenzene-d5	7.486	82	569222	65.331	ng	-0.01
42) 2,4,6-Tribromophenol	10.751	330	228925	90.597	ng	-0.01
45) 2-Fluorobiphenyl	9.280	172	1025389	62.428	ng	0.00
79) Terphenyl-d14	13.033	244	822926	58.563	ng	0.00
Target Compounds						Qvalue

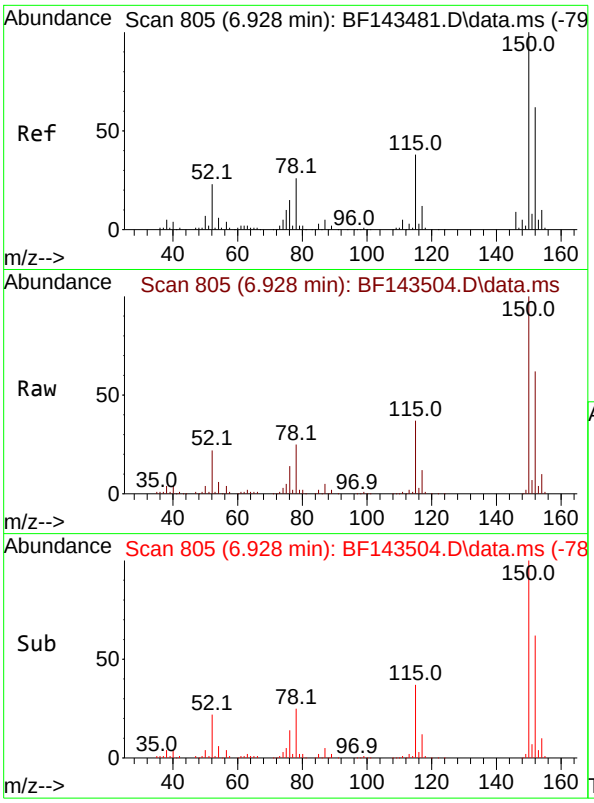
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082025\
Data File : BF143504.D
Acq On : 21 Aug 2025 00:58
Operator : RC/JU
Sample : Q2819-20
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
82H-E

Quant Time: Aug 21 02:09:13 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 20 15:07:46 2025
Response via : Initial Calibration



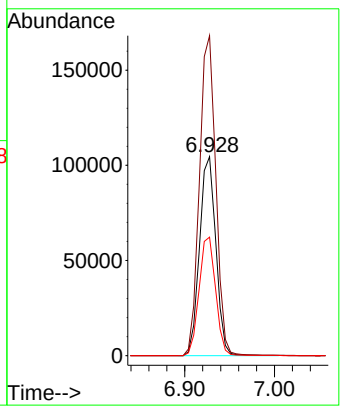


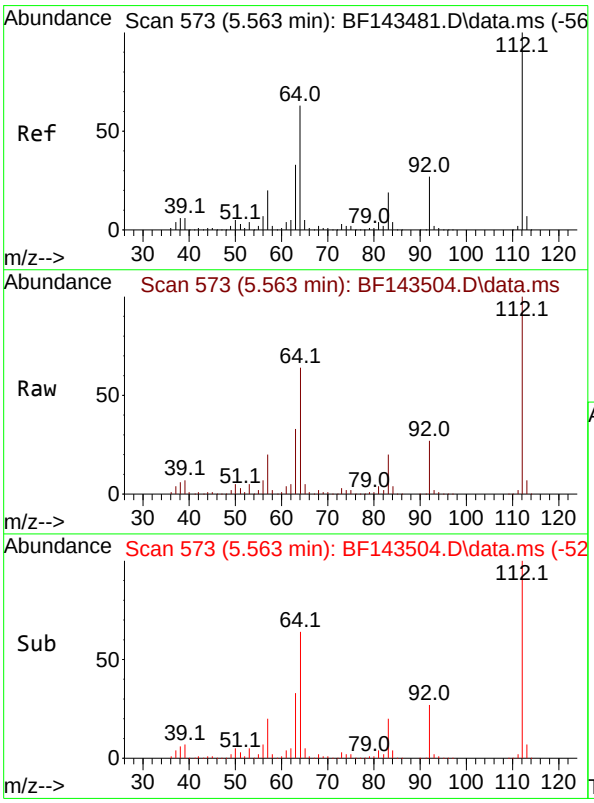
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.928 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF143504.D
Acq: 21 Aug 2025 00:58

Instrument :
BNA_F
ClientSampleId :
82H-E

Tgt Ion:152 Resp: 132245

Ion	Ratio	Lower	Upper
152	100		
150	160.8	128.9	193.3
115	59.6	49.2	73.8

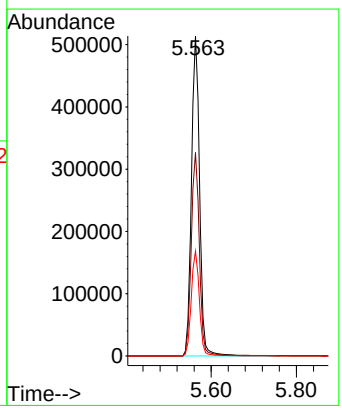


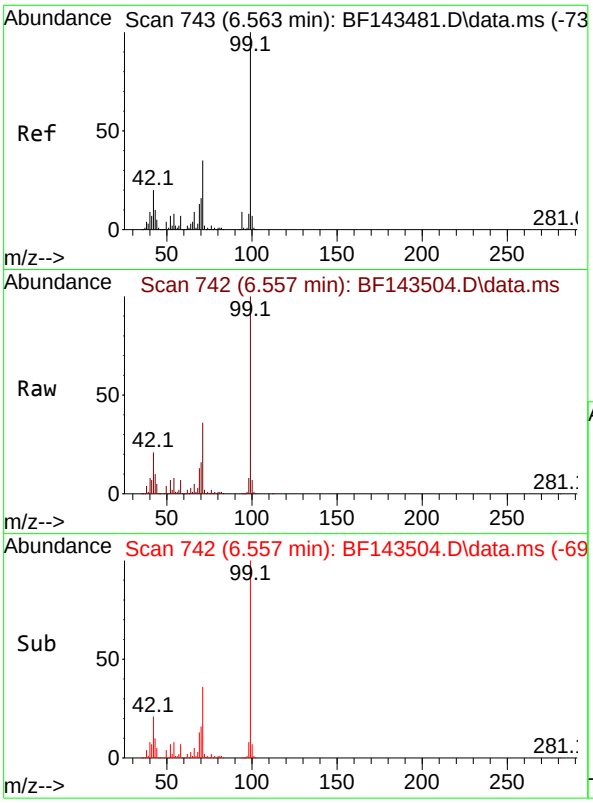


#5
2-Fluorophenol
Concen: 90.195 ng
RT: 5.563 min Scan# 573
Delta R.T. -0.000 min
Lab File: BF143504.D
Acq: 21 Aug 2025 00:58

Tgt Ion:112 Resp: 683090

Ion	Ratio	Lower	Upper
112	100		
64	63.6	50.4	75.6
63	32.8	26.4	39.6



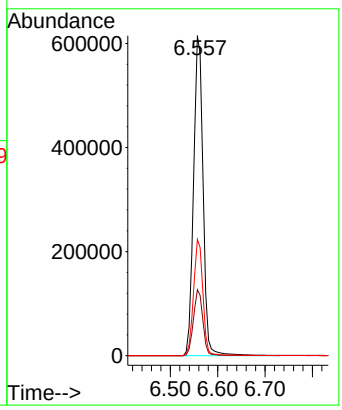


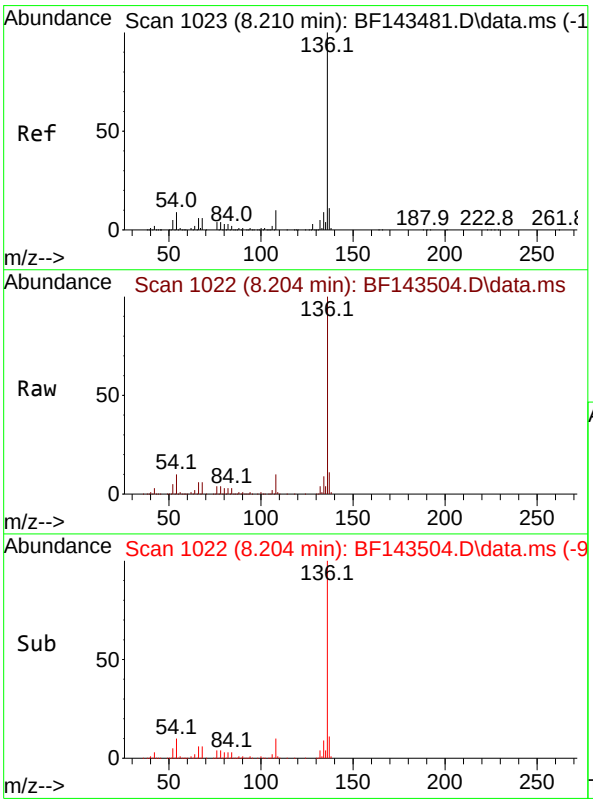
#7
Phenol-d6
Concen: 92.088 ng
RT: 6.557 min Scan# 7
Delta R.T. -0.018 min
Lab File: BF143504.D
Acq: 21 Aug 2025 00:58

Instrument :
BNA_F
ClientSampleId :
82H-E

Tgt Ion: 99 Resp: 860932

Ion	Ratio	Lower	Upper
99	100		
42	20.6	16.3	24.5
71	36.3	28.2	42.2

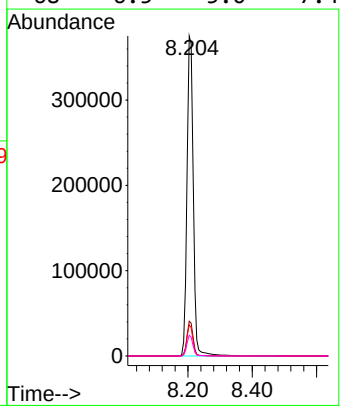


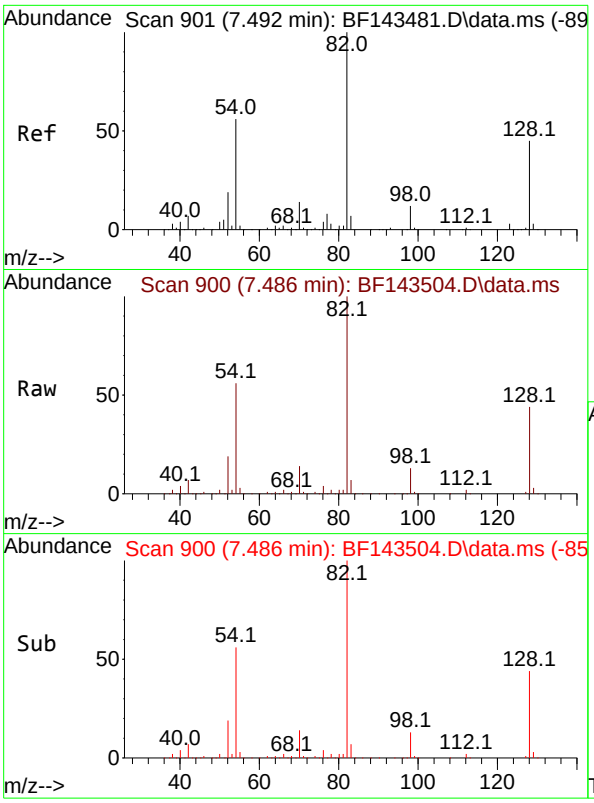


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.204 min Scan# 1022
Delta R.T. -0.006 min
Lab File: BF143504.D
Acq: 21 Aug 2025 00:58

Tgt Ion:136 Resp: 508439

Ion	Ratio	Lower	Upper
136	100		
137	10.8	9.0	13.4
54	9.7	7.4	11.2
68	6.5	5.0	7.4



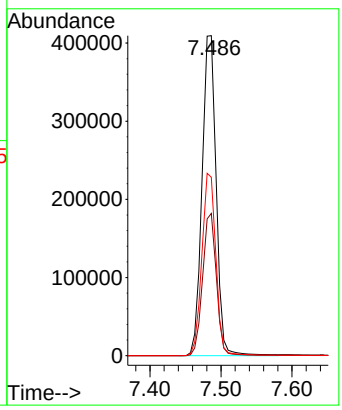


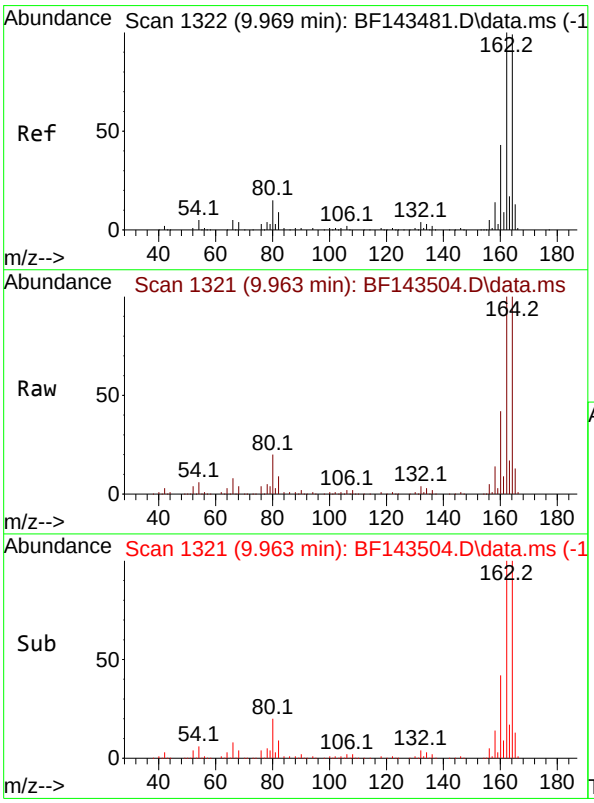
#23
Nitrobenzene-d5
Concen: 65.331 ng
RT: 7.486 min Scan# 9
Delta R.T. -0.012 min
Lab File: BF143504.D
Acq: 21 Aug 2025 00:58

Instrument :
BNA_F
ClientSampleId :
82H-E

Tgt Ion: 82 Resp: 569222

Ion	Ratio	Lower	Upper
82	100		
128	44.5	35.5	53.3
54	55.8	44.3	66.5

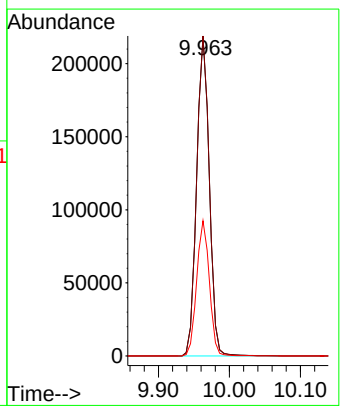


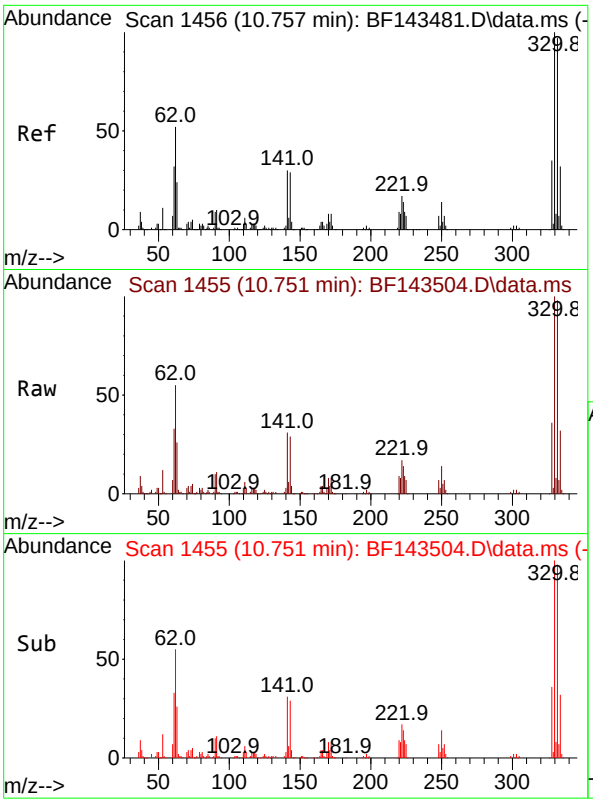


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.963 min Scan# 1321
Delta R.T. -0.006 min
Lab File: BF143504.D
Acq: 21 Aug 2025 00:58

Tgt Ion:164 Resp: 271455

Ion	Ratio	Lower	Upper
164	100		
162	100.3	80.5	120.7
160	42.4	34.3	51.5



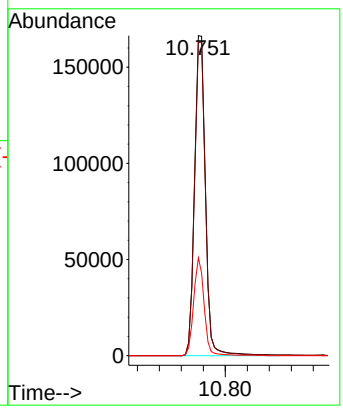


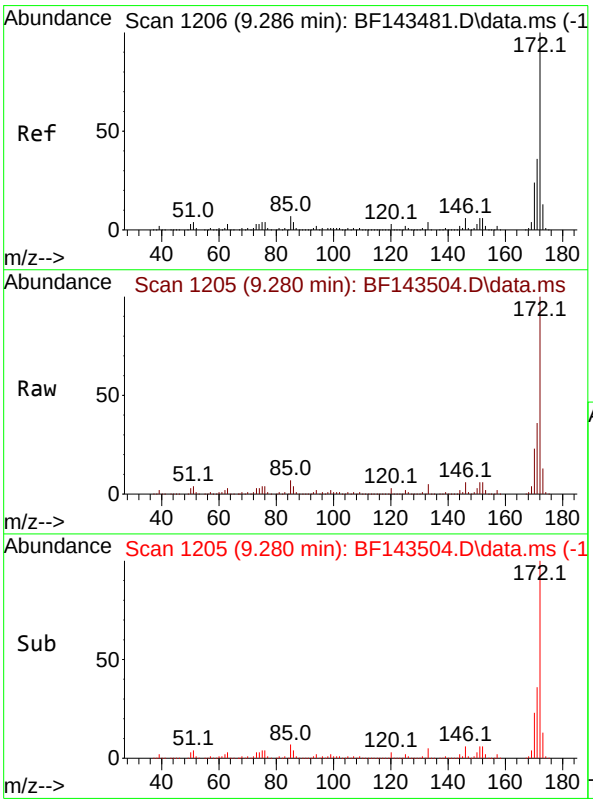
#42
2,4,6-Tribromophenol
Concen: 90.597 ng
RT: 10.751 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF143504.D
Acq: 21 Aug 2025 00:58

Instrument :
BNA_F
ClientSampleId :
82H-E

Tgt Ion:330 Resp: 228925

Ion	Ratio	Lower	Upper
330	100		
332	98.2	78.0	117.0
141	29.4	23.7	35.5

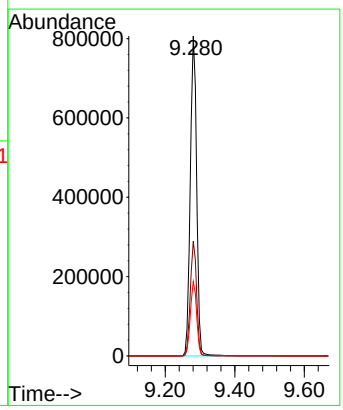


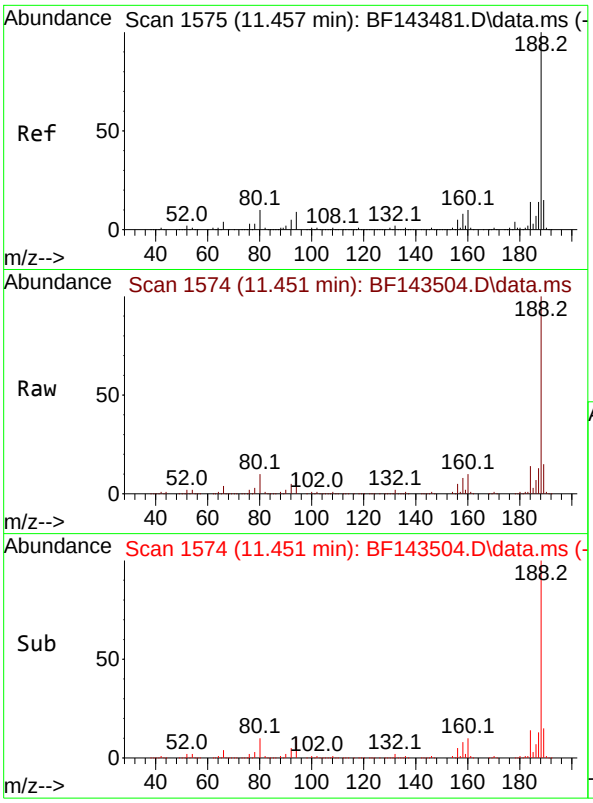


#45
2-Fluorobiphenyl
Concen: 62.428 ng
RT: 9.280 min Scan# 1205
Delta R.T. -0.006 min
Lab File: BF143504.D
Acq: 21 Aug 2025 00:58

Tgt Ion:172 Resp: 1025389

Ion	Ratio	Lower	Upper
172	100		
171	35.8	28.8	43.2
170	23.3	18.8	28.2



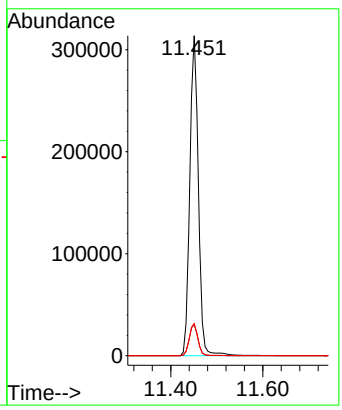


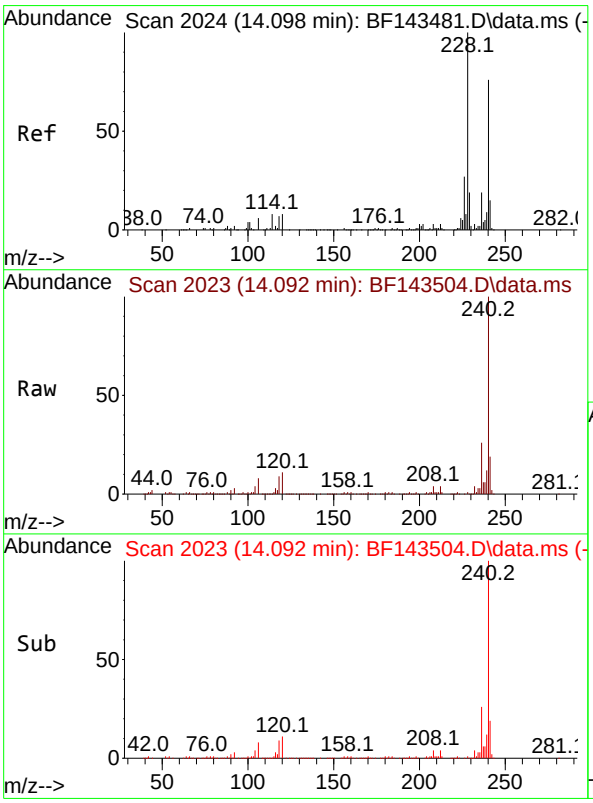
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.451 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143504.D
Acq: 21 Aug 2025 00:58

Instrument :
BNA_F
ClientSampleId :
82H-E

Tgt Ion:188 Resp: 403457

Ion	Ratio	Lower	Upper
188	100		
94	9.8	7.4	11.2
80	10.1	8.2	12.4

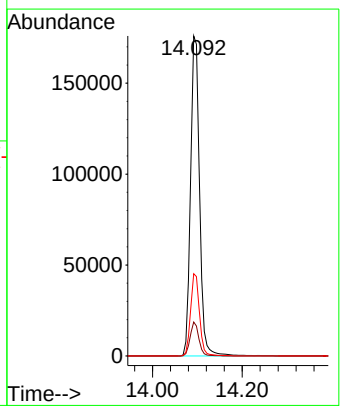


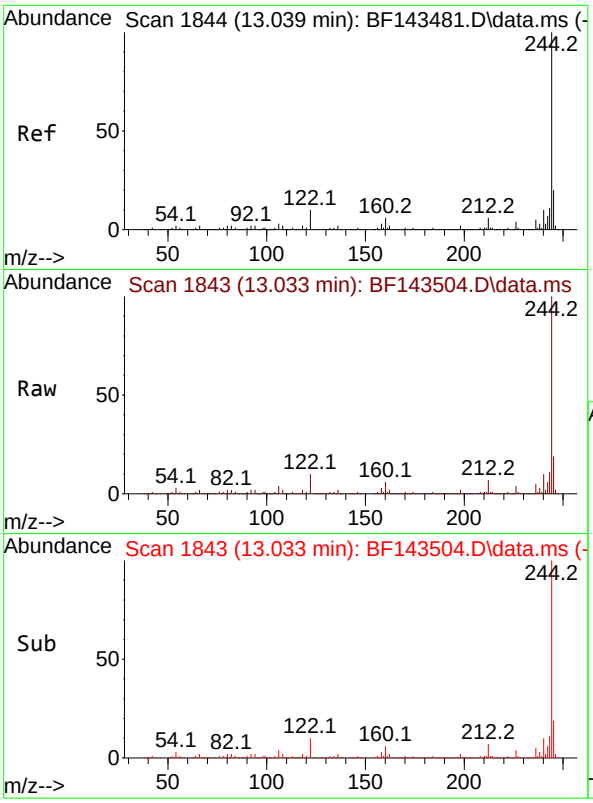


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.092 min Scan# 2023
Delta R.T. -0.012 min
Lab File: BF143504.D
Acq: 21 Aug 2025 00:58

Tgt Ion:240 Resp: 245211

Ion	Ratio	Lower	Upper
240	100		
120	10.6	8.6	12.8
236	25.7	20.4	30.6



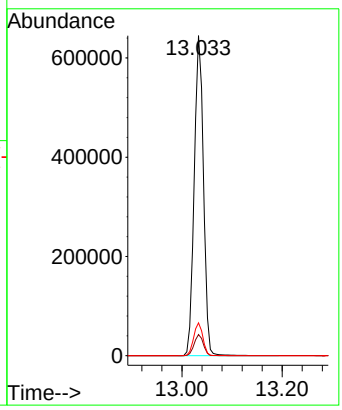


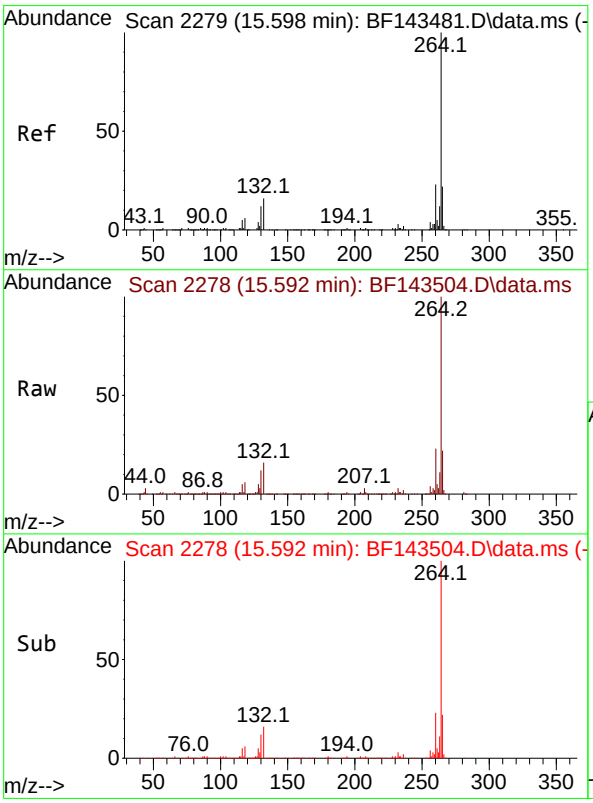
#79
Terphenyl-d14
Concen: 58.563 ng
RT: 13.033 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143504.D
Acq: 21 Aug 2025 00:58

Instrument :
BNA_F
ClientSampleId :
82H-E

Tgt Ion:244 Resp: 822926

Ion	Ratio	Lower	Upper
244	100		
212	6.6	5.2	7.8
122	10.3	7.9	11.9

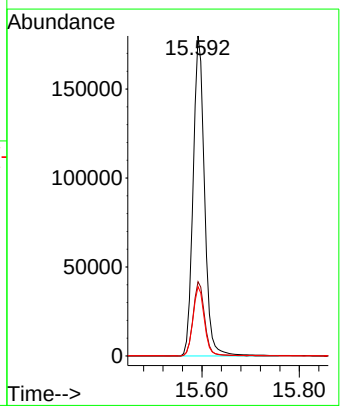




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.592 min Scan# 2278
Delta R.T. -0.006 min
Lab File: BF143504.D
Acq: 21 Aug 2025 00:58

Tgt Ion:264 Resp: 294419

Ion	Ratio	Lower	Upper
264	100		
260	23.2	18.7	28.1
265	21.6	17.6	26.4



Sample Results: **BF143504.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082025\
Data File : BF143504.D
Acq On : 21 Aug 2025 00:58
Operator : RC/JU
Sample : Q2819-20
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
82H-E

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-BF082025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF143504.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.263	5	12	30	rVB	697206	1102971	37.49%	5.273%
2	5.157	496	504	520	rBV	173340	274934	9.34%	1.314%
3	5.563	567	573	593	rBV	1871521	2471287	83.99%	11.815%
4	6.557	736	742	769	rBV	1813021	2549101	86.64%	12.187%
5	6.928	800	805	813	rBV	618846	788436	26.80%	3.769%
6	7.486	893	900	911	rBV	1233276	1709563	58.10%	8.173%
7	8.204	1017	1022	1042	rVB	776310	1035018	35.18%	4.948%
8	9.280	1199	1205	1210	rBV	2356946	2942294	100.00%	14.066%
9	9.963	1316	1321	1332	rBV	910271	1130252	38.41%	5.403%
10	10.674	1437	1442	1450	rBV	335073	421281	14.32%	2.014%
11	10.751	1450	1455	1471	rBV	1280644	1695593	57.63%	8.106%
12	10.986	1490	1495	1503	rVB	38085	51991	1.77%	0.249%
13	11.451	1569	1574	1581	rBV	777319	988058	33.58%	4.724%
14	11.974	1658	1663	1673	rBV2	32327	64580	2.19%	0.309%
15	13.033	1838	1843	1855	rBV	1700045	2160230	73.42%	10.328%
16	13.980	1998	2004	2015	rBV5	14917	50497	1.72%	0.241%
17	14.092	2018	2023	2035	rVB	470592	644429	21.90%	3.081%
18	14.615	2107	2112	2126	rBV	11367	46280	1.57%	0.221%
19	15.592	2272	2278	2301	rVB	473601	790300	26.86%	3.778%

Sum of corrected areas: 20917095

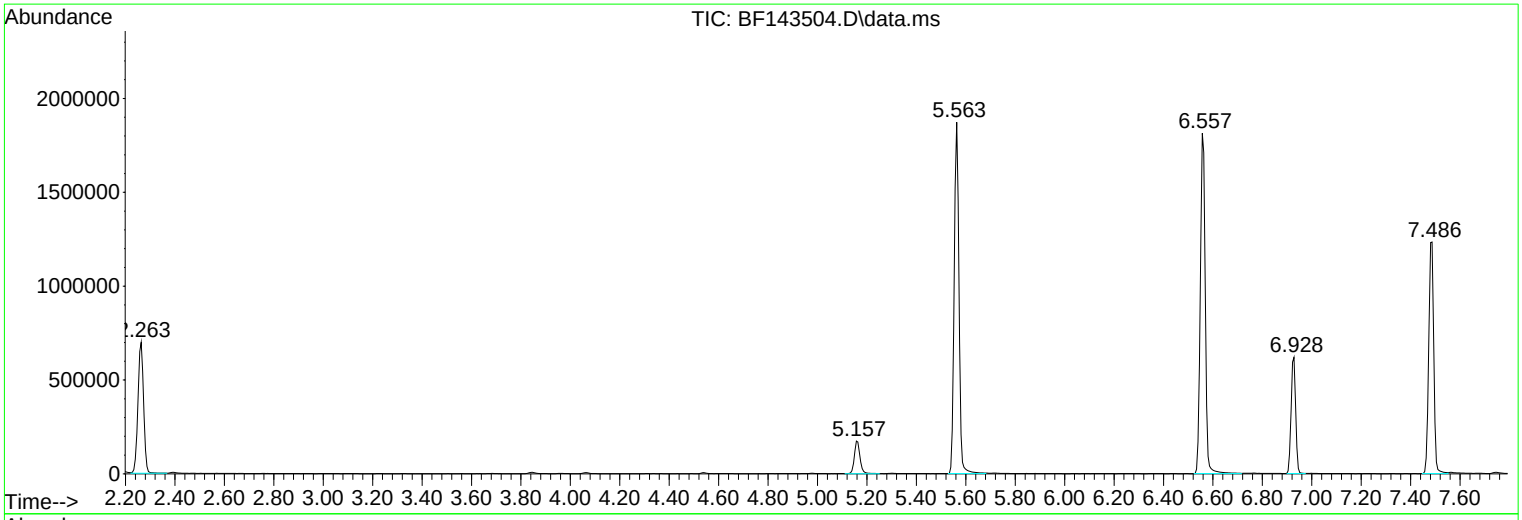
Sample Results: **BF143504.D**

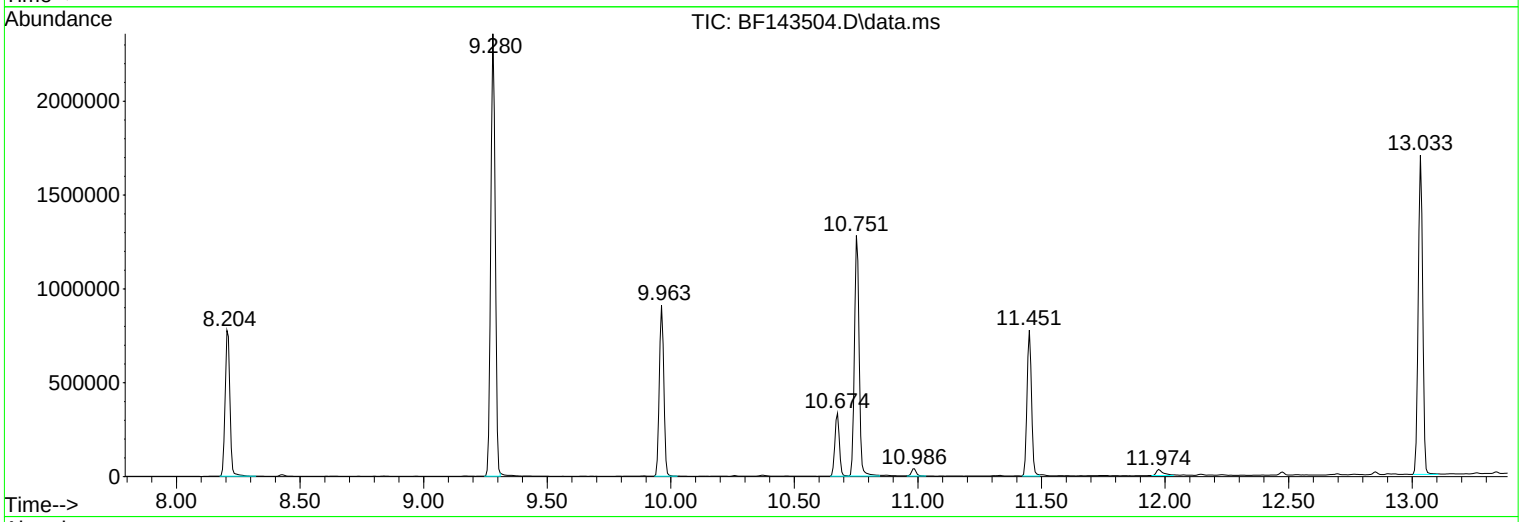
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082025\
Data File : BF143504.D
Acq On : 21 Aug 2025 00:58
Operator : RC/JU
Sample : Q2819-20
Misc :
ALS Vial : 28 Sample Multiplier: 1

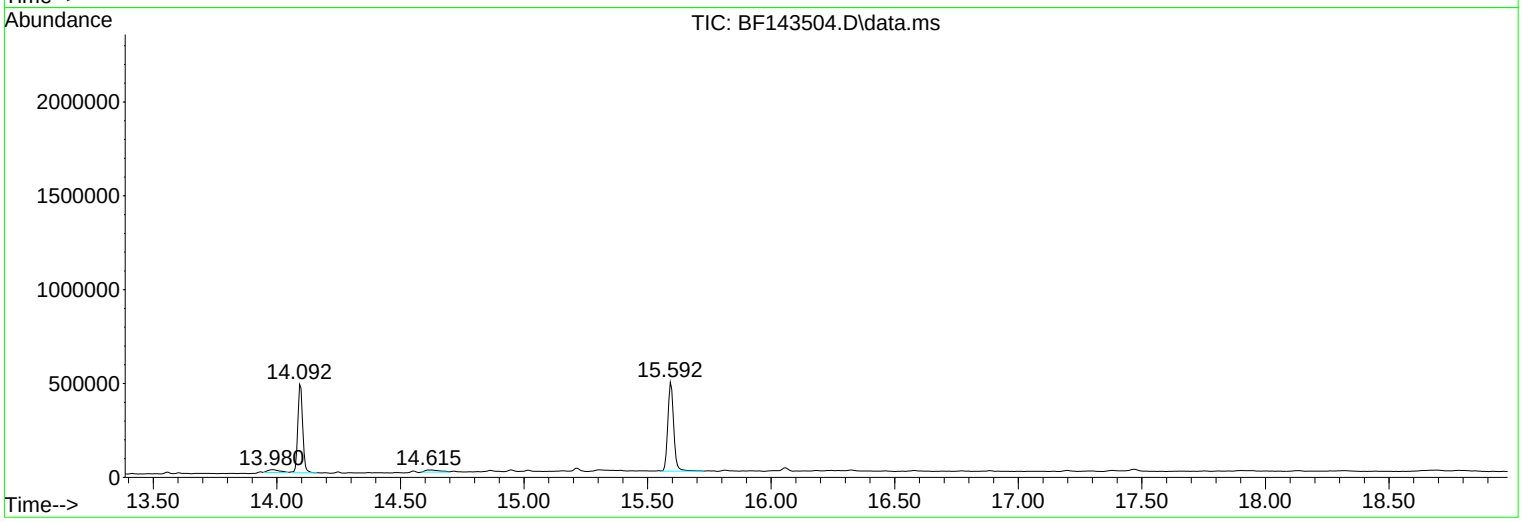
Instrument :
BNA_F
ClientSampleId :
82H-E

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.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\BF082025\
Data File : BF143504.D
Acq On : 21 Aug 2025 00:58
Operator : RC/JU
Sample : Q2819-20
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
82H-E

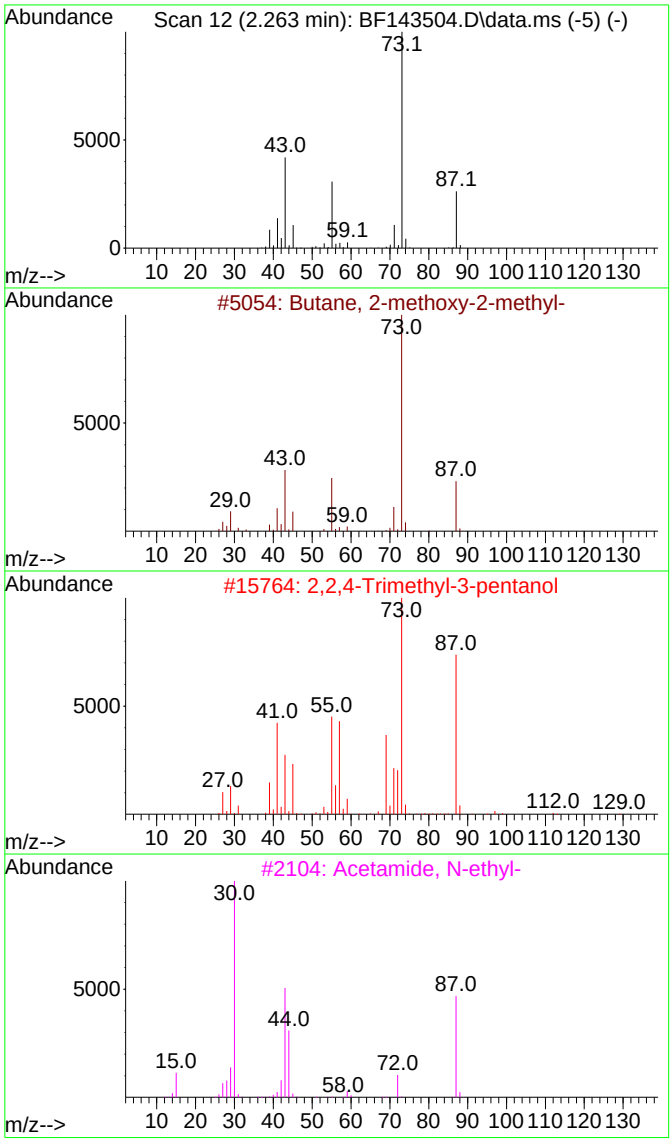
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

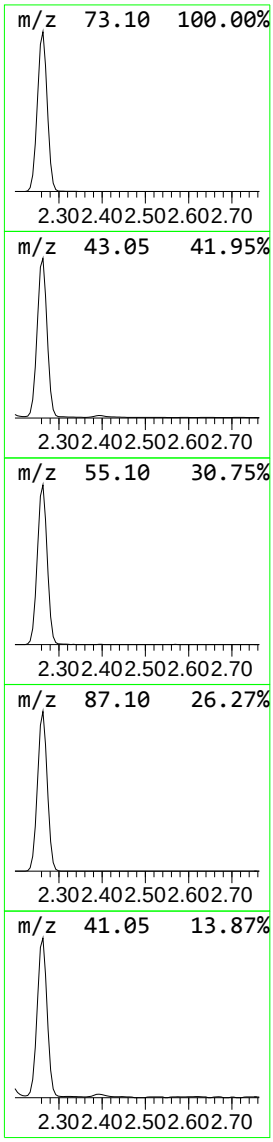
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.263	27.98 ng	1102970	1,4-Dichlorobenzene-d4	6.928

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





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Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082025\
Data File : BF143504.D
Acq On    : 21 Aug 2025  00:58
Operator  : RC/JU
Sample    : Q2819-20
Misc      :
ALS Vial  : 28   Sample Multiplier: 1

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

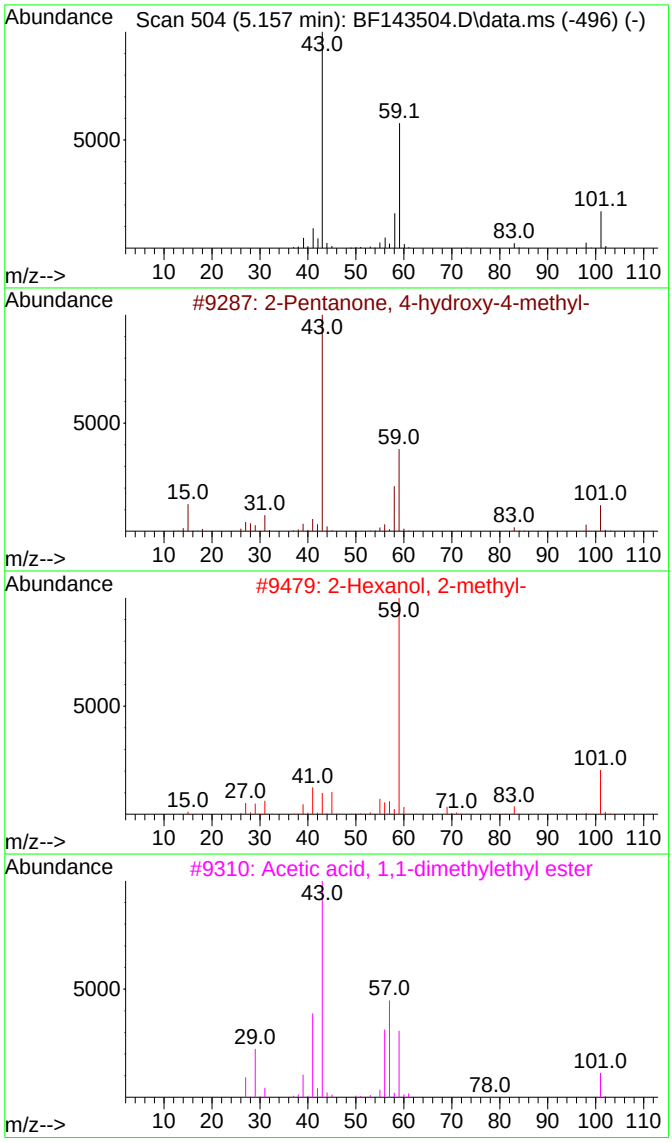
Instrument :
BNA_F
ClientSampleId :
82H-E

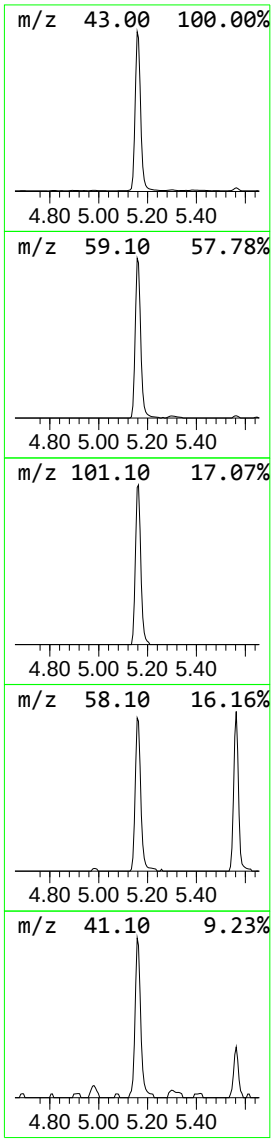
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.157	6.97 ng	274934	1,4-Dichlorobenzene-d4	6.928

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	59
2	2-Hexanol, 2-methyl-	116	C7H16O	000625-23-0	28
3	Acetic acid, 1,1-dimethylethyl e...	116	C6H12O2	000540-88-5	28
4	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	23
5	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	12





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082025\
Data File : BF143504.D
Acq On : 21 Aug 2025 00:58
Operator : RC/JU
Sample : Q2819-20
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
82H-E

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

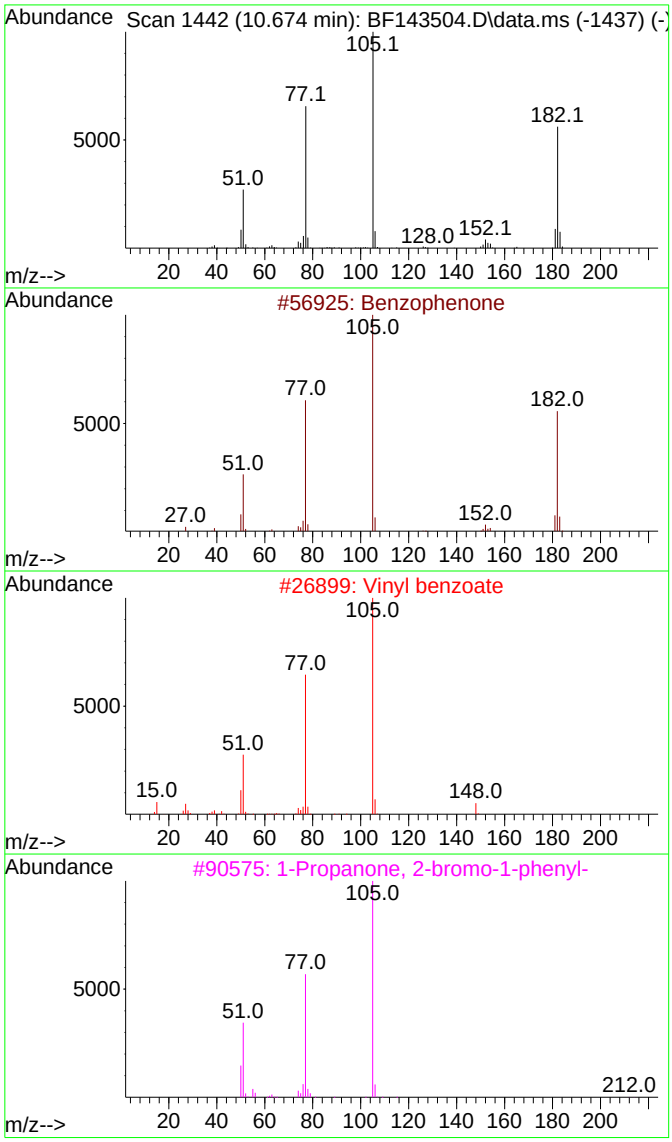
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

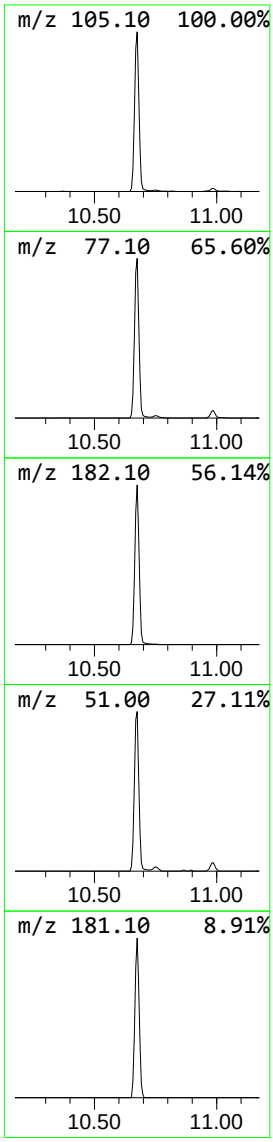
****

Peak Number 3 Benzophenone Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.674	7.45 ng	421281	Acenaphthene-d10	9.963

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	Vinyl benzoate	148	C9H8O2	000769-78-8	47
3	1-Propanone, 2-bromo-1-phenyl-	212	C9H9BrO	002114-00-3	47
4	2-Chloro-1-phenyl-1-propanone	168	C9H9ClO	006084-17-9	47
5	Benzenecarbothioic acid, S-methy...	152	C8H8OS	005925-68-8	47





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082025\
Data File : BF143504.D
Acq On : 21 Aug 2025 00:58
Operator : RC/JU
Sample : Q2819-20
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
82H-E

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.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...	2.263	28.0	ng	1102970	1	6.928	788436	20.0
2-Pentanone, 4-...	5.157	7.0	ng	274934	1	6.928	788436	20.0
Benzophenone	10.674	7.5	ng	421281	3	9.963	1130250	20.0

CALIBRATION SUMMARY

Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF082025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Aug 21 06:12:21 2025
Response Via : Initial Calibration

Calibration Files
2.5 =BF143477.D 5 =BF143478.D 10 =BF143479.D 20 =BF143480.D 40 =BF143481.D 50 =BF143482.D 60 =BF143483.D 80 =BF1434
84.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.528	0.529	0.539	0.536	0.519	0.542	0.522	0.531	1.62
3)		Pyridine		1.339	1.392	1.435	1.438	1.389	1.477	1.421	1.413	3.13
4)		n-Nitrosodimet...			0.604	0.619	0.641	0.633	0.666	0.648	0.635	3.44
5)	S	2-Fluorophenol		1.203	1.198	1.194	1.138	1.087	1.137	1.061	1.145	4.92
6)		Aniline		2.034	1.969	1.959	1.890	1.800	1.864	1.714	1.890	5.78
7)	S	Phenol-d6		1.536	1.460	1.471	1.407	1.342	1.384	1.299	1.414	5.76
8)		2-Chlorophenol		1.301	1.284	1.302	1.268	1.229	1.270	1.202	1.265	2.94
9)		Benzaldehyde			1.008	0.981	1.200	1.133	1.402		1.145	14.80
10)	C	Phenol		1.741	1.695	1.725	1.646	1.554	1.593	1.449	1.629	6.43
11)		bis(2-Chloroet...		1.296	1.230	1.235	1.213	1.170	1.221	1.156	1.217	3.78
12)		1,3-Dichlorobe...		1.558	1.451	1.466	1.414	1.345	1.399	1.317	1.421	5.65
13)	C	1,4-Dichlorobe...		1.531	1.487	1.483	1.411	1.355	1.409	1.304	1.426	5.62
14)		1,2-Dichlorobe...		1.448	1.413	1.386	1.348	1.289	1.333	1.233	1.350	5.45
15)		Benzyl Alcohol			1.037	1.063	1.083	1.040	1.088	1.041	1.059	2.14
16)		2,2'-oxybis(1-...		2.144	2.104	2.053	1.954	1.805	1.868	1.703	1.947	8.40
17)		2-Methylphenol		1.052	1.042	1.056	1.011	0.975	1.011	0.960	1.015	3.67
18)		Hexachloroethane		0.495	0.498	0.502	0.491	0.462	0.489	0.456	0.485	3.79
19)	P	n-Nitroso-di-n...	0.922	0.943	0.912	0.879	0.844	0.800	0.832	0.781	0.864	6.86
20)		3+4-Methylphenols			1.337	1.320	1.218	1.143	1.178	1.076	1.212	8.40
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.489	0.464	0.459	0.418	0.402	0.410	0.382	0.432	8.99
23)	S	Nitrobenzene-d5		0.354	0.345	0.357	0.344	0.335	0.340	0.325	0.343	3.18
24)		Nitrobenzene		0.353	0.351	0.366	0.356	0.348	0.358	0.337	0.353	2.55
25)		Isophorone		0.666	0.630	0.644	0.621	0.608	0.625	0.603	0.628	3.41
26)	C	2-Nitrophenol		0.162	0.165	0.177	0.177	0.175	0.180	0.173	0.173	3.76
27)		2,4-Dimethylph...		0.283	0.272	0.281	0.270	0.262	0.265	0.251	0.269	4.11
28)		bis(2-Chloroet...		0.409	0.399	0.401	0.386	0.371	0.379	0.357	0.386	4.74
29)	C	2,4-Dichloroph...		0.293	0.299	0.303	0.288	0.281	0.283	0.266	0.288	4.30
30)		1,2,4-Trichlor...		0.318	0.300	0.314	0.292	0.282	0.291	0.274	0.296	5.46
31)		Naphthalene		1.069	1.009	1.014	0.943	0.907	0.921	0.859	0.960	7.58
32)		Benzoic acid			0.086	0.116	0.145	0.153	0.163	0.160	0.137	21.97
33)		4-Chloroaniline		0.359	0.345	0.362	0.343	0.331	0.330	0.315	0.341	4.87
34)	C	Hexachlorobuta...		0.207	0.199	0.201	0.192	0.186	0.190	0.177	0.193	5.21
35)		Caprolactam			0.063	0.068	0.071	0.071	0.070	0.072	0.069	4.96
36)	C	4-Chloro-3-met...		0.303	0.292	0.303	0.287	0.280	0.284	0.269	0.288	4.25
37)		2-Methylnaphth...		0.716	0.684	0.684	0.633	0.600	0.610	0.562	0.641	8.62
38)		1-Methylnaphth...		0.692	0.651	0.650	0.603	0.577	0.581	0.540	0.613	8.62

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF082025.M

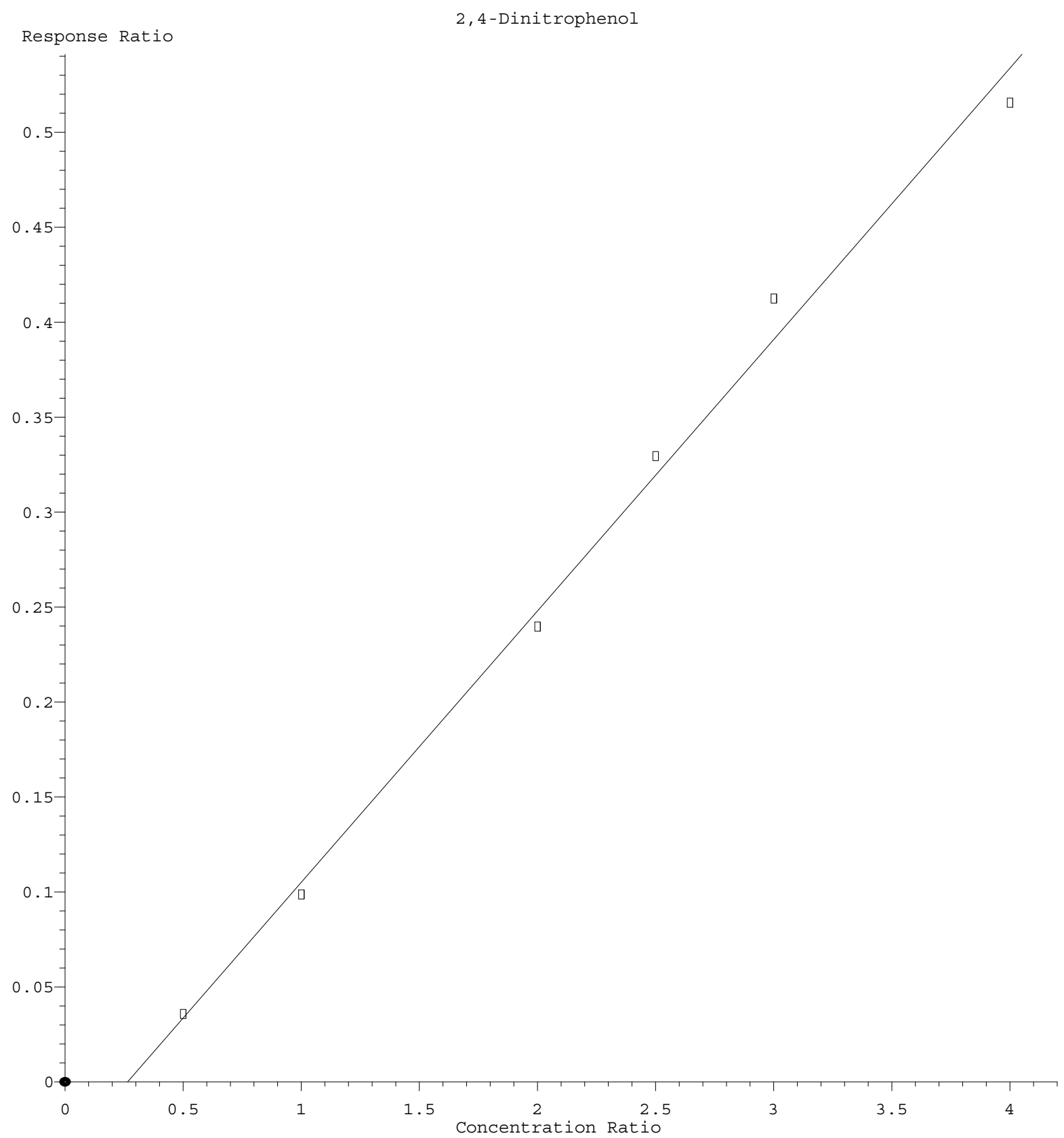
39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.629	0.584	0.613	0.565	0.544	0.552	0.517	0.572	6.88
41)	P	Hexachlorocycl...		0.098	0.153	0.198	0.205	0.226	0.222	0.184	26.99
42)	S	2,4,6-Tribromo...	0.191	0.188	0.194	0.188	0.181	0.184	0.177	0.186	3.12
43)	C	2,4,6-Trichlor...	0.338	0.347	0.364	0.364	0.351	0.360	0.339	0.352	3.18
44)		2,4,5-Trichlor...	0.391	0.376	0.413	0.382	0.377	0.387	0.365	0.385	3.94
45)	S	2-Fluorobiphenyl	1.445	1.336	1.323	1.156	1.106	1.106	0.999	1.210	13.20
46)		1,1'-Biphenyl	1.582	1.505	1.519	1.399	1.335	1.349	1.247	1.420	8.43
47)		2-Chloronaphth...	1.222	1.165	1.172	1.105	1.056	1.068	1.008	1.114	6.77
48)		2-Nitroaniline	0.314	0.313	0.338	0.337	0.329	0.331	0.320	0.326	3.19
49)		Acenaphthylene	1.747	1.663	1.687	1.580	1.516	1.533	1.437	1.595	6.85
50)		Dimethylphthalate	1.293	1.219	1.252	1.201	1.159	1.175	1.133	1.205	4.58
51)		2,6-Dinitrotol...	0.224	0.237	0.259	0.259	0.260	0.257	0.251	0.250	5.63
52)	C	Acenaphthene	1.170	1.131	1.137	1.076	1.037	1.044	0.985	1.083	6.07
53)		3-Nitroaniline	0.260	0.257	0.280	0.278	0.273	0.271	0.269	0.270	3.21
54)	P	2,4-Dinitrophenol		0.072	0.099	0.120	0.132	0.137	0.129	0.115	21.92
55)		Dibenzofuran	1.717	1.625	1.647	1.523	1.461	1.453	1.381	1.544	7.91
56)	P	4-Nitrophenol		0.115	0.147	0.171	0.177	0.172	0.181	0.161	15.78
57)		2,4-Dinitrotol...	0.292	0.318	0.349	0.351	0.344	0.344	0.336	0.333	6.38
58)		Fluorene	1.367	1.286	1.270	1.158	1.111	1.102	1.025	1.188	10.25
59)		2,3,4,6-Tetrac...	0.261	0.264	0.299	0.297	0.294	0.297	0.288	0.286	5.59
60)		Diethylphthalate	1.172	1.097	1.110	1.084	1.053	1.036	1.008	1.080	5.01
61)		4-Chlorophenyl...	0.671	0.624	0.628	0.585	0.558	0.567	0.527	0.594	8.30
62)		4-Nitroaniline	0.230	0.237	0.258	0.257	0.255	0.248	0.250	0.248	4.28
63)		Azobenzene	1.221	1.154	1.177	1.122	1.080	1.067	1.018	1.120	6.26
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.085	0.103	0.119	0.120	0.124	0.126	0.113	13.97
66)	c	n-Nitrosodiphe...	0.684	0.661	0.679	0.641	0.615	0.636	0.590	0.644	5.29
67)		4-Bromophenyl-...	0.243	0.240	0.250	0.241	0.230	0.240	0.227	0.239	3.35
68)		Hexachlorobenzene	0.266	0.262	0.267	0.257	0.248	0.256	0.243	0.257	3.53
69)		Atrazine	0.154	0.156	0.164	0.168	0.171	0.174	0.176	0.166	5.09
70)	C	Pentachlorophenol		0.088	0.106	0.124	0.127	0.131	0.131	0.118	14.47
71)		Phenanthrene	1.188	1.123	1.130	1.039	1.015	1.033	0.969	1.071	7.23
72)		Anthracene	1.191	1.144	1.148	1.074	1.022	1.036	0.980	1.085	7.16
73)		Carbazole	0.949	0.925	0.932	0.882	0.849	0.861	0.825	0.889	5.30
74)		Di-n-butylphth...	0.782	0.800	0.830	0.850	0.833	0.857	0.855	0.829	3.47
75)	C	Fluoranthene	1.061	1.020	1.002	0.946	0.914	0.923	0.862	0.961	7.21
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine		0.611	0.665	0.516	0.391	0.368	0.372	0.487	26.70
78)		Pyrene	1.891	1.768	1.793	1.635	1.590	1.512	1.327	1.645	11.63
79)	S	Terphenyl-d14	1.341	1.255	1.248	1.130	1.094	1.052	0.904	1.146	12.86
80)		Butylbenzylpht...	0.380	0.402	0.443	0.467	0.461	0.509	0.485	0.449	10.15
81)		Benzo(a)anthra...	1.302	1.274	1.300	1.318	1.266	1.316	1.237	1.288	2.30
82)		3,3'-Dichlorob...		0.353	0.386	0.373	0.354	0.377	0.370	0.369	3.60
83)		Chrysene	1.251	1.195	1.213	1.113	1.089	1.125	1.114	1.157	5.33
84)		Bis(2-ethylhex...	0.600	0.626	0.699	0.710	0.690	0.767	0.700	0.685	8.12
85)	c	Di-n-octyl pht...		1.129	1.289	1.298	1.251	1.413	1.228	1.268	7.36

Response Factor Report BNA_F

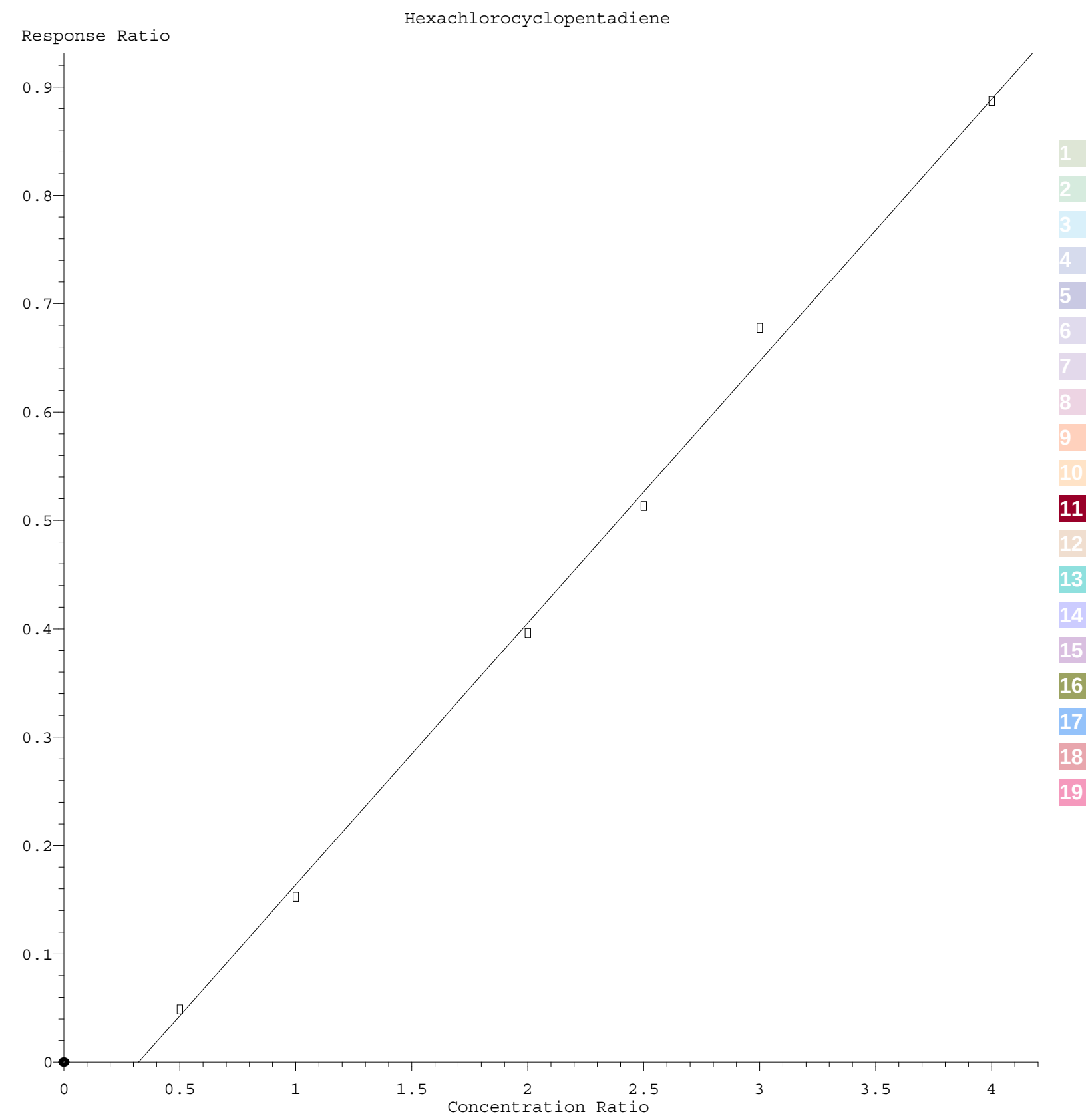
Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF082025.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.425	1.433	1.565	1.449	1.427	1.466	1.295	1.437	5.51
88)		Benzo(b)fluora...	1.135	1.147	1.182	1.074	1.058	1.068	1.119	1.112	4.20
89)		Benzo(k)fluora...	1.157	1.014	1.056	1.081	1.034	1.104	1.005	1.064	5.10
90)	C	Benzo(a)pyrene	1.033	1.021	1.074	1.032	1.010	1.043	1.011	1.032	2.15
91)		Dibenzo(a,h)an...	1.139	1.164	1.260	1.162	1.142	1.168	1.023	1.151	6.04
92)		Benzo(g,h,i)pe...	1.128	1.129	1.242	1.156	1.145	1.172	1.039	1.145	5.30

(#) = Out of Range



Response = 1.430e-001 * Amt - 3.784e-002
Coef of Det (r^2) = 0.996445 Curve Fit: wlr(1/a)
Method: Q2819-SVOC-TCL BNA-20 \\Chemstation\HPCHEM1\BNA F\Methods\8270-BF082025.M
Calibration Table Last Updated: Thu Aug 21 06:12:21 2025



Response = 2.418e-001 * Amt - 7.792e-002
Coef of Det (r^2) = 0.997891 Curve Fit: wlr(1/a)
Method: V:\HPCHEM1\BNA F\Methods\8270-BF082025.M
Calibration Table Last Updated: Thu Aug 21 06:12:21 2025

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082025\
Data File : BF143477.D
Acq On : 20 Aug 2025 10:55
Operator : RC/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Quant Time: Aug 20 16:19:29 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 20 15:07:46 2025
Response via : Initial Calibration

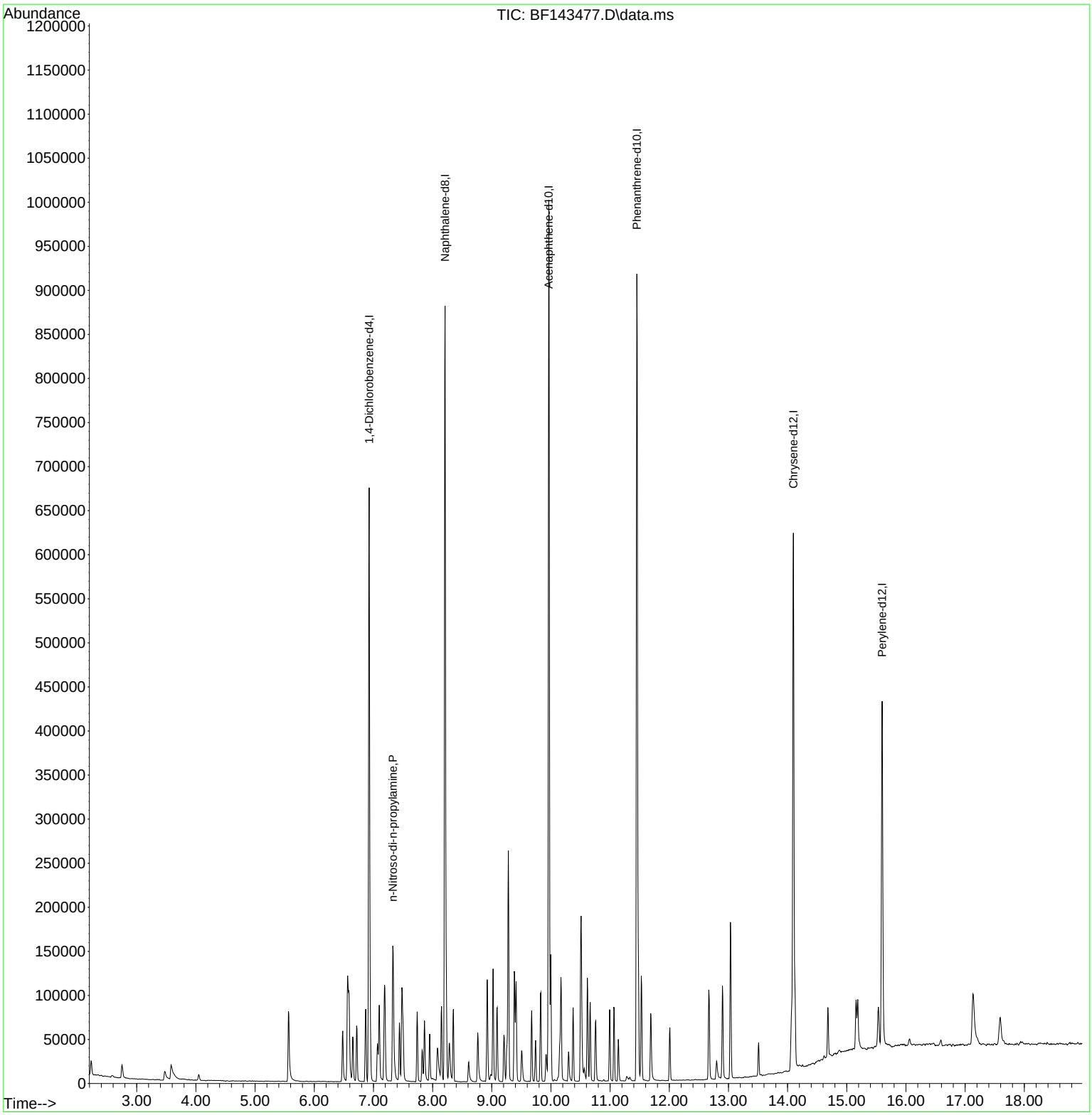
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.928	152	139562	20.000	ng	0.00
21) Naphthalene-d8	8.210	136	543954	20.000	ng	0.00
39) Acenaphthene-d10	9.963	164	302590	20.000	ng	0.00
64) Phenanthrene-d10	11.451	188	471116	20.000	ng	0.00
76) Chrysene-d12	14.098	240	283668	20.000	ng	0.00
86) Perylene-d12	15.598	264	247340	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...	7.328	70	16082	2.667	ng	96

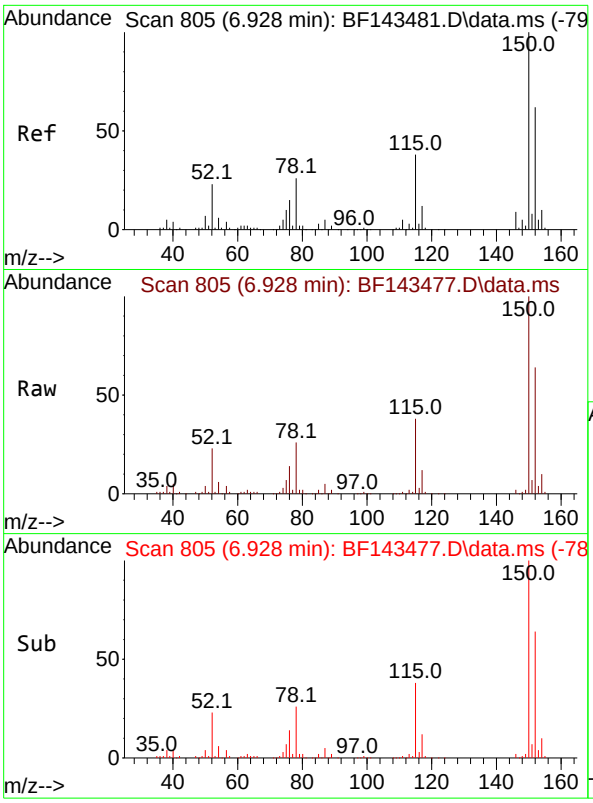
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082025\
Data File : BF143477.D
Acq On : 20 Aug 2025 10:55
Operator : RC/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Quant Time: Aug 20 16:19:29 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 20 15:07:46 2025
Response via : Initial Calibration



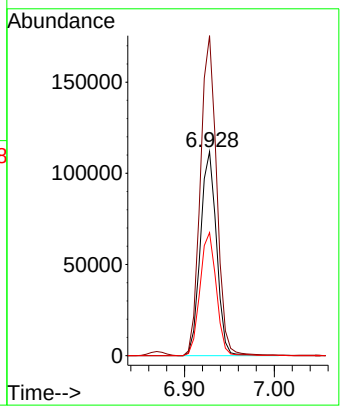


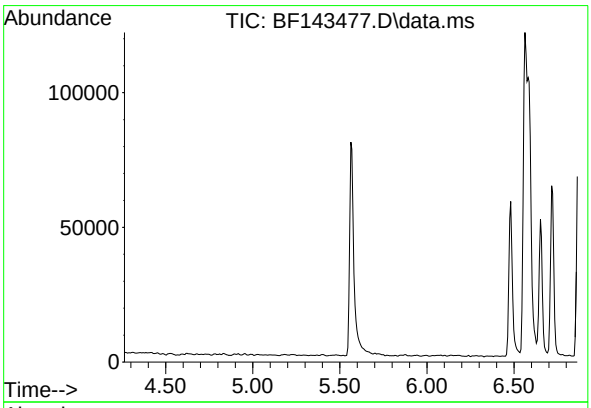
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.928 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF143477.D
Acq: 20 Aug 2025 10:55

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion:152 Resp: 139562

Ion	Ratio	Lower	Upper
152	100		
150	156.9	128.9	193.3
115	60.4	49.2	73.8



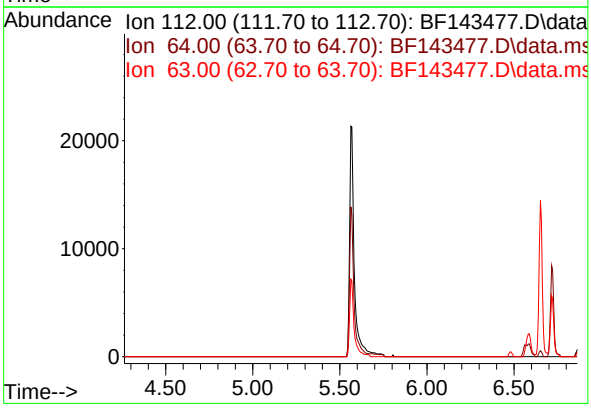


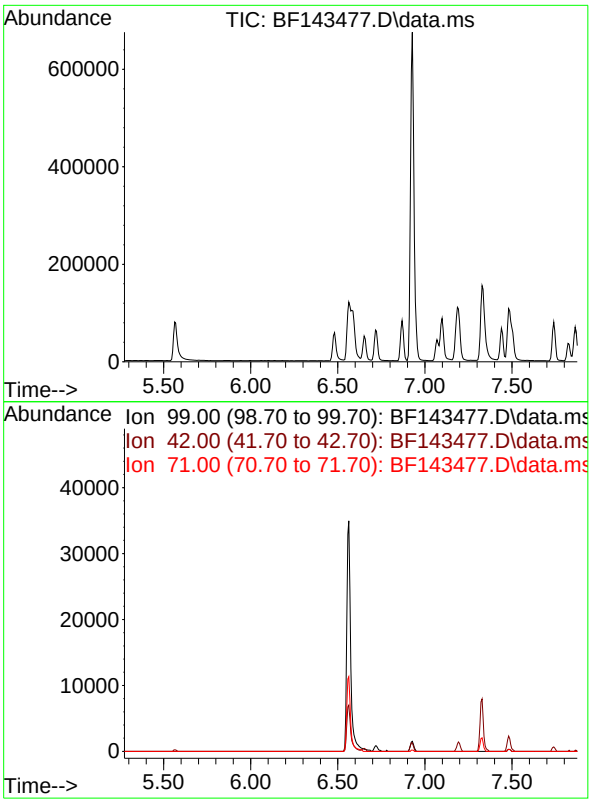
#5
2-Fluorophenol
Concen: 0.000 ng
Expected RT: 5.56 min

Lab File: BF143477.D
Acq: 20 Aug 2025 10:55

Tgt Ion: 112

Sig	Exp Ratio
112	100
64	63.0
63	33.0





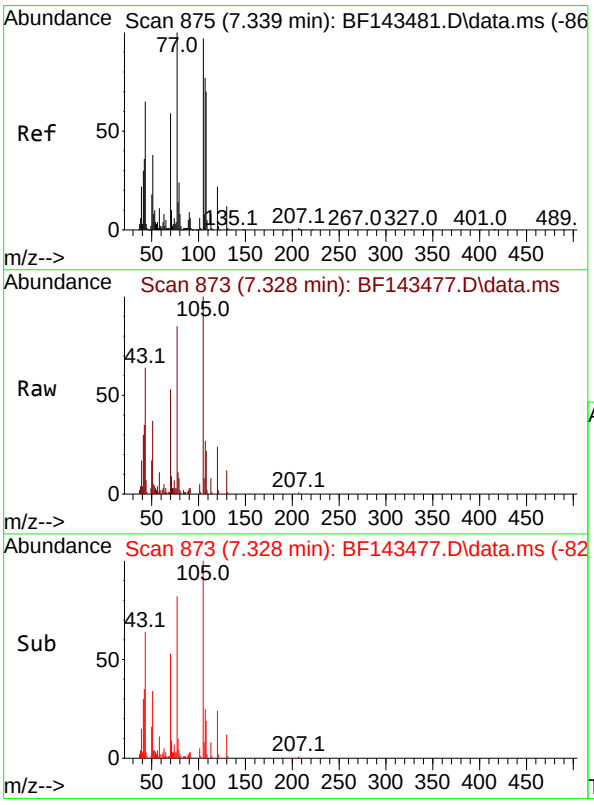
#7
Phenol-d6
Concen: 0.000 ng
Expected RT: 6.57 min

Lab File: BF143477.D
Acq: 20 Aug 2025 10:55

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion: 99

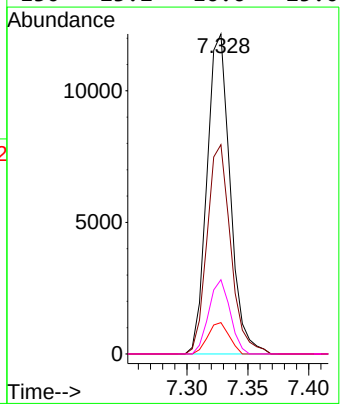
Sig	Exp Ratio
99	100
42	20.4
71	35.2

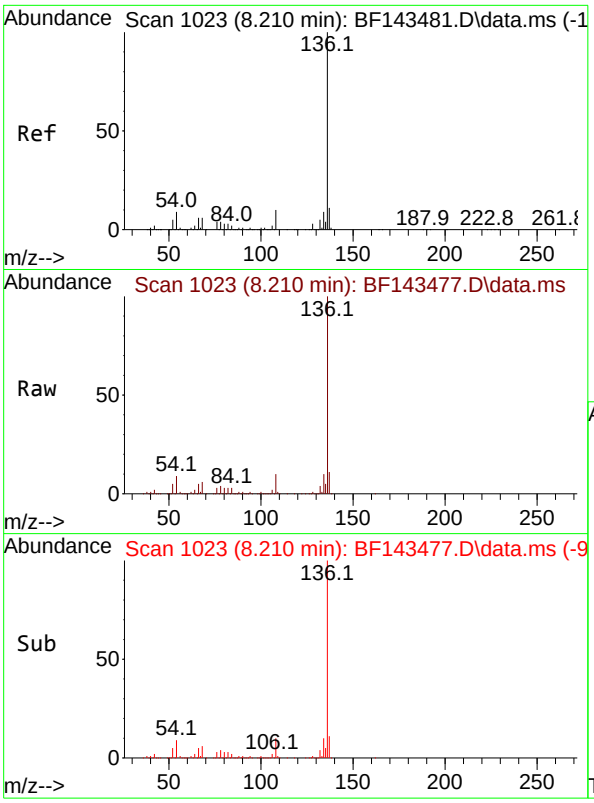


#19
n-Nitroso-di-n-propylamine
Concen: 2.667 ng
RT: 7.328 min Scan# 873
Delta R.T. -0.023 min
Lab File: BF143477.D
Acq: 20 Aug 2025 10:55

Tgt Ion: 70 Resp: 16082

Ion	Ratio	Lower	Upper
70	100		
42	65.4	49.3	73.9
101	9.8	7.8	11.8
130	23.2	16.6	25.0



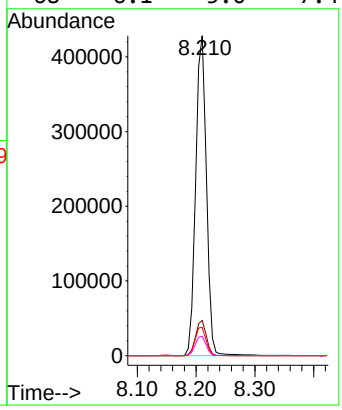


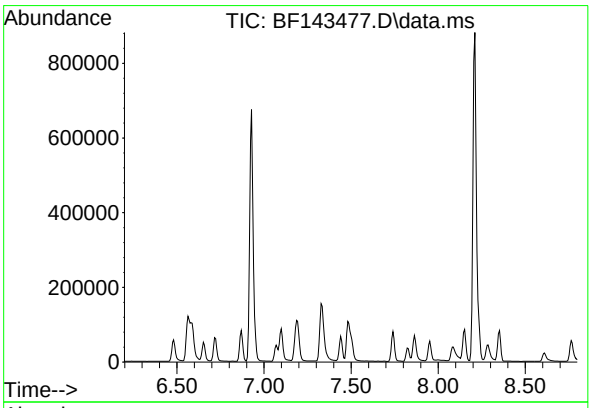
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.210 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143477.D
Acq: 20 Aug 2025 10:55

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion:136 Resp: 543954

Ion	Ratio	Lower	Upper
136	100		
137	11.0	9.0	13.4
54	8.9	7.4	11.2
68	6.1	5.0	7.4



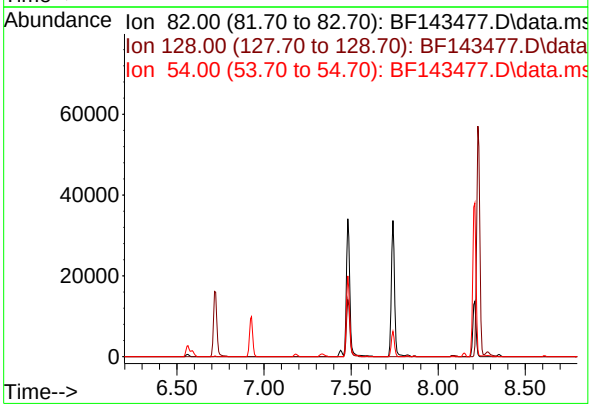


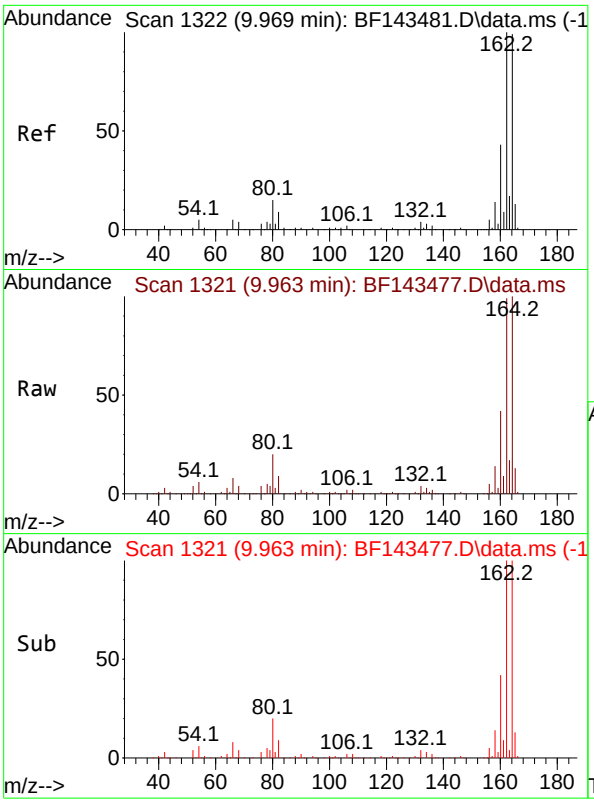
#23
Nitrobenzene-d5
Concen: 0.000 ng
Expected RT: 7.50 min

Lab File: BF143477.D
Acq: 20 Aug 2025 10:55

Tgt Ion: 82

Sig	Exp Ratio
82	100
128	44.4
54	55.4



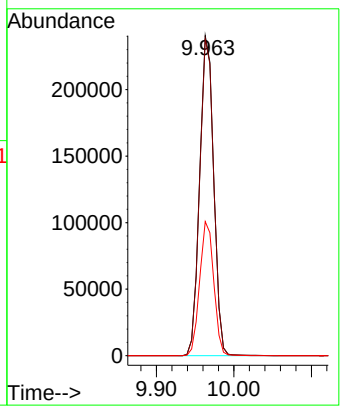


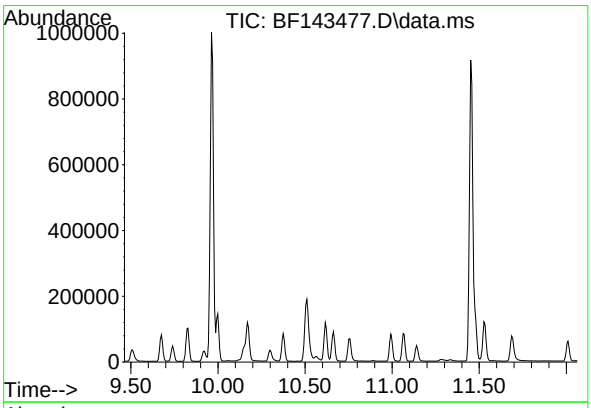
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.963 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143477.D
Acq: 20 Aug 2025 10:55

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion:164 Resp: 302590

Ion	Ratio	Lower	Upper
164	100		
162	99.0	80.5	120.7
160	41.9	34.3	51.5



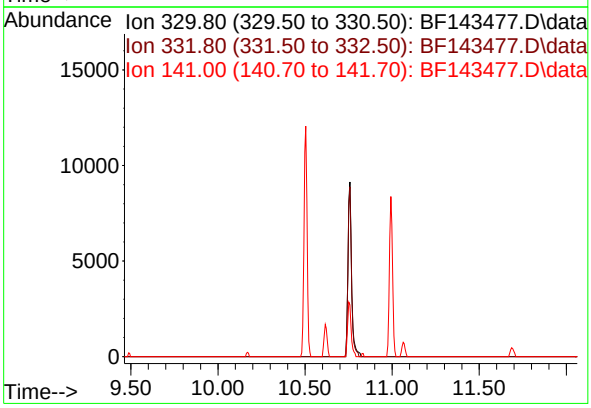


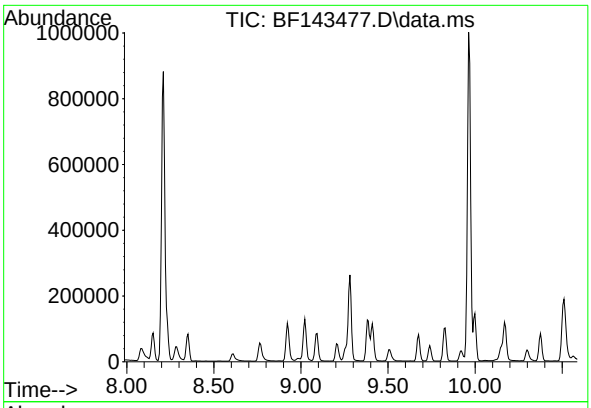
#42
2,4,6-Tribromophenol
Concen: 0.000 ng
Expected RT: 10.76 min

Lab File: BF143477.D
Acq: 20 Aug 2025 10:55

Tgt Ion: 330

Sig	Exp Ratio
330	100
332	97.5
141	29.6





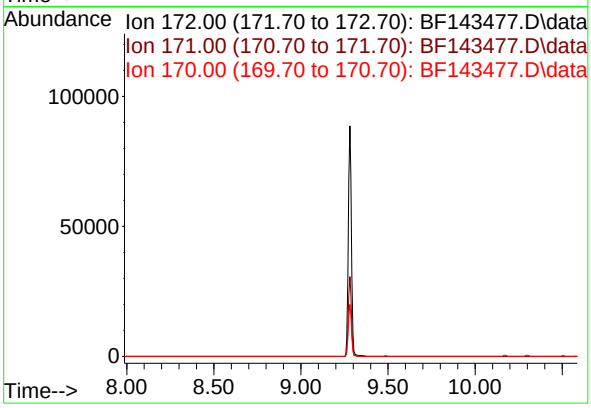
#45
2-Fluorobiphenyl
Concen: 0.000 ng
Expected RT: 9.29 min

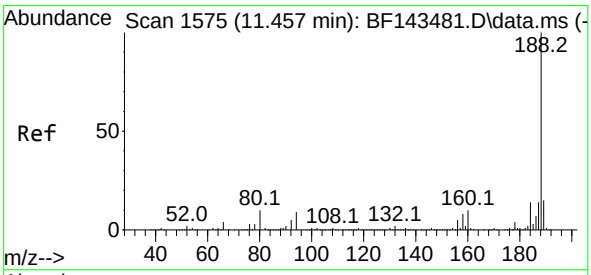
Lab File: BF143477.D
Acq: 20 Aug 2025 10:55

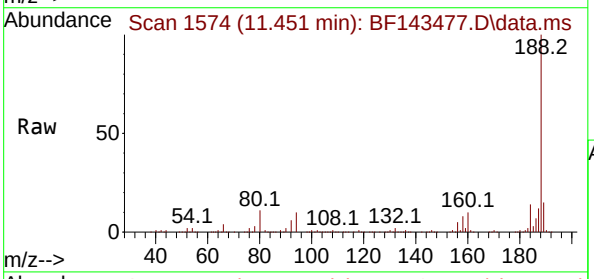
Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

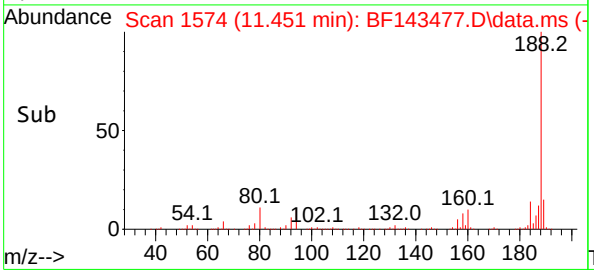
Tgt Ion: 172

Sig	Exp Ratio
172	100
171	36.0
170	23.5





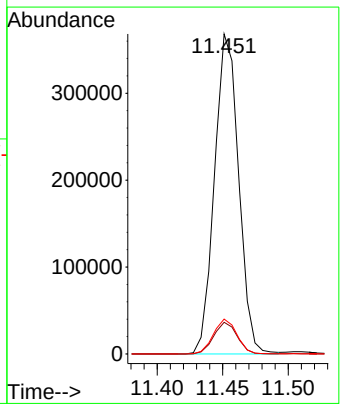


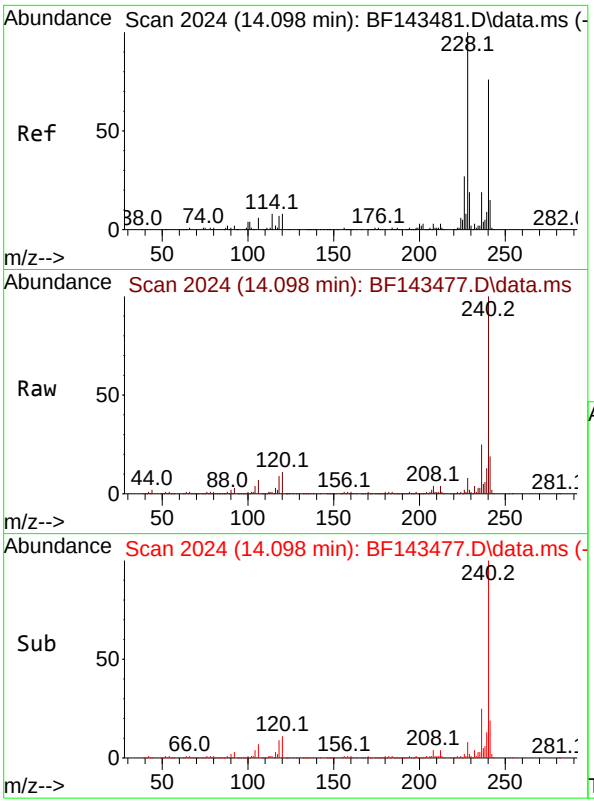


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.451 min Scan# 1574
Delta R.T. -0.006 min
Lab File: BF143477.D
Acq: 20 Aug 2025 10:55

Tgt Ion:188 Resp: 471116

Ion	Ratio	Lower	Upper
188	100		
94	9.9	7.4	11.2
80	10.9	8.2	12.4



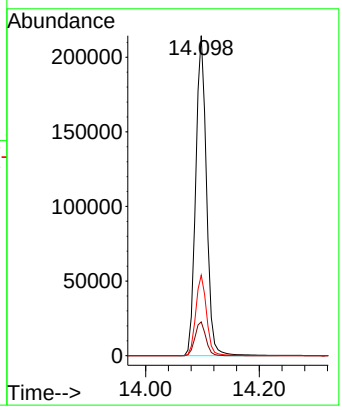


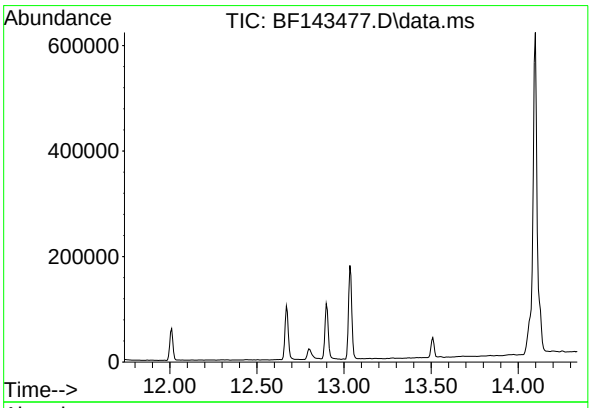
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.098 min Scan# 2(
Delta R.T. -0.006 min
Lab File: BF143477.D
Acq: 20 Aug 2025 10:55

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion:240 Resp: 283668

Ion	Ratio	Lower	Upper
240	100		
120	10.5	8.6	12.8
236	25.1	20.4	30.6



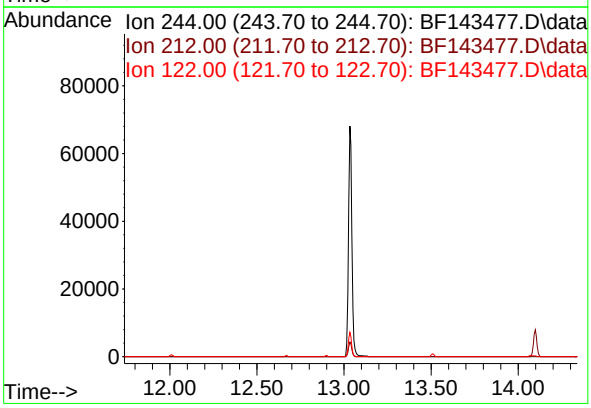


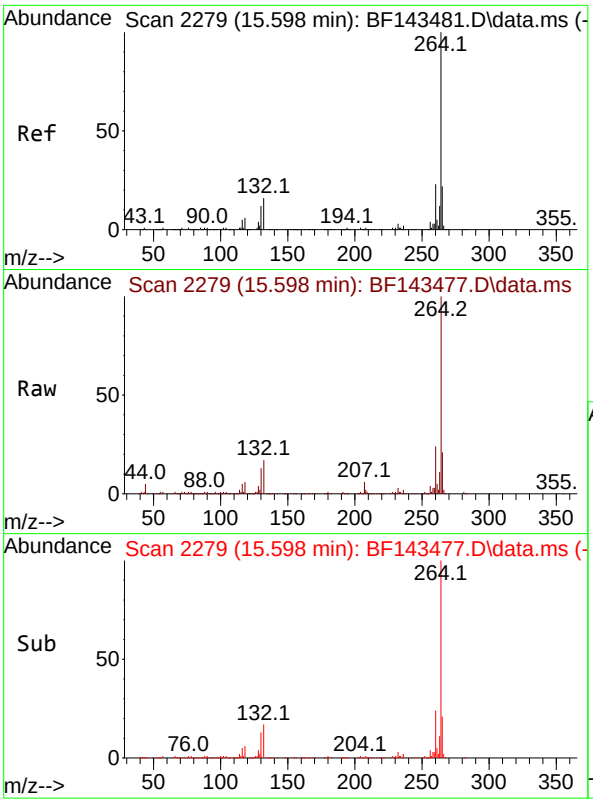
#79
Terphenyl-d14
Concen: 0.000 ng
Expected RT: 13.04 min

Lab File: BF143477.D
Acq: 20 Aug 2025 10:55

Tgt Ion: 244

Sig	Exp Ratio
244	100
212	6.5
122	9.9



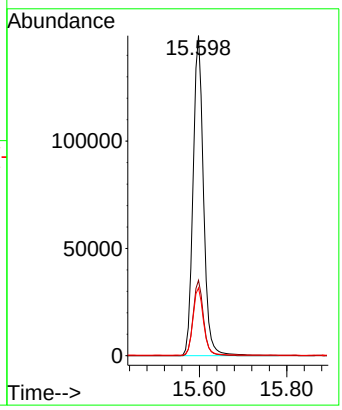


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.598 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF143477.D
Acq: 20 Aug 2025 10:55

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion:264 Resp: 247340

Ion	Ratio	Lower	Upper
264	100		
260	23.5	18.7	28.1
265	21.2	17.6	26.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082025\
Data File : BF143478.D
Acq On : 20 Aug 2025 11:25
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Quant Time: Aug 20 16:19:48 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 20 15:07:46 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.928	152	139746	20.000	ng		0.00
21) Naphthalene-d8	8.210	136	528467	20.000	ng		0.00
39) Acenaphthene-d10	9.963	164	295421	20.000	ng		0.00
64) Phenanthrene-d10	11.451	188	479059	20.000	ng		0.00
76) Chrysene-d12	14.098	240	275807	20.000	ng		0.00
86) Perylene-d12	15.598	264	257255	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.563	112	84074	10.505	ng		0.00
7) Phenol-d6	6.557	99	107354	10.867	ng		-0.02
23) Nitrobenzene-d5	7.481	82	93525	10.327	ng		-0.02
42) 2,4,6-Tribromophenol	10.751	330	28197	10.254	ng		-0.01
45) 2-Fluorobiphenyl	9.281	172	213485	11.943	ng		0.00
79) Terphenyl-d14	13.033	244	184897	11.698	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.746	88	18448	4.976	ng		97
3) Pyridine	3.552	79	46794	4.739	ng		98
6) Aniline	6.587	93	71052	5.381	ng		98
8) 2-Chlorophenol	6.716	128	45449	5.142	ng		99
10) Phenol	6.575	94	60812	5.343	ng		93
11) bis(2-Chloroethyl)ether	6.651	93	45274	5.323	ng		99
12) 1,3-Dichlorobenzene	6.869	146	54424	5.480	ng		98
13) 1,4-Dichlorobenzene	6.945	146	53485	5.368	ng		99
14) 1,2-Dichlorobenzene	7.098	146	50580	5.362	ng		98
16) 2,2'-oxybis(1-Chloropr...	7.192	45	74897	5.504	ng		97
17) 2-Methylphenol	7.181	107	36752	5.180	ng		97
18) Hexachloroethane	7.440	117	17304	5.108	ng		94
19) n-Nitroso-di-n-propyla...	7.328	70	32958	5.458	ng		96
22) Acetophenone	7.328	105	64602	5.658	ng	#	96
24) Nitrobenzene	7.498	77	46642	5.004	ng		99
25) Isophorone	7.739	82	87950	5.298	ng		99
26) 2-Nitrophenol	7.822	139	21447	4.697	ng		98
27) 2,4-Dimethylphenol	7.863	122	37403	5.255	ng		98
28) bis(2-Chloroethoxy)met...	7.951	93	54059	5.299	ng		98
29) 2,4-Dichlorophenol	8.075	162	38716	5.093	ng		96
30) 1,2,4-Trichlorobenzene	8.151	180	42060	5.382	ng		99
31) Naphthalene	8.228	128	141189	5.565	ng		99
33) 4-Chloroaniline	8.281	127	47399	5.264	ng		99
34) Hexachlorobutadiene	8.351	225	27313	5.357	ng		99
36) 4-Chloro-3-methylphenol	8.763	107	40059	5.259	ng		100
37) 2-Methylnaphthalene	8.922	142	94640	5.585	ng		99
38) 1-Methylnaphthalene	9.022	142	91483	5.644	ng		99
40) 1,2,4,5-Tetrachloroben...	9.092	216	46429	5.494	ng		98
43) 2,4,6-Trichlorophenol	9.204	196	24994	4.807	ng		99
44) 2,4,5-Trichlorophenol	9.251	196	28903	5.089	ng		97
46) 1,1'-Biphenyl	9.381	154	116864	5.573	ng		98
47) 2-Chloronaphthalene	9.410	162	90223	5.484	ng		100
48) 2-Nitroaniline	9.504	65	23209	4.820	ng		99
49) Acenaphthylene	9.822	152	129052	5.478	ng		98
50) Dimethylphthalate	9.675	163	95475	5.366	ng		98
51) 2,6-Dinitrotoluene	9.739	165	16519	4.480	ng		93

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082025\
Data File : BF143478.D
Acq On : 20 Aug 2025 11:25
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Quant Time: Aug 20 16:19:48 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 20 15:07:46 2025
Response via : Initial Calibration

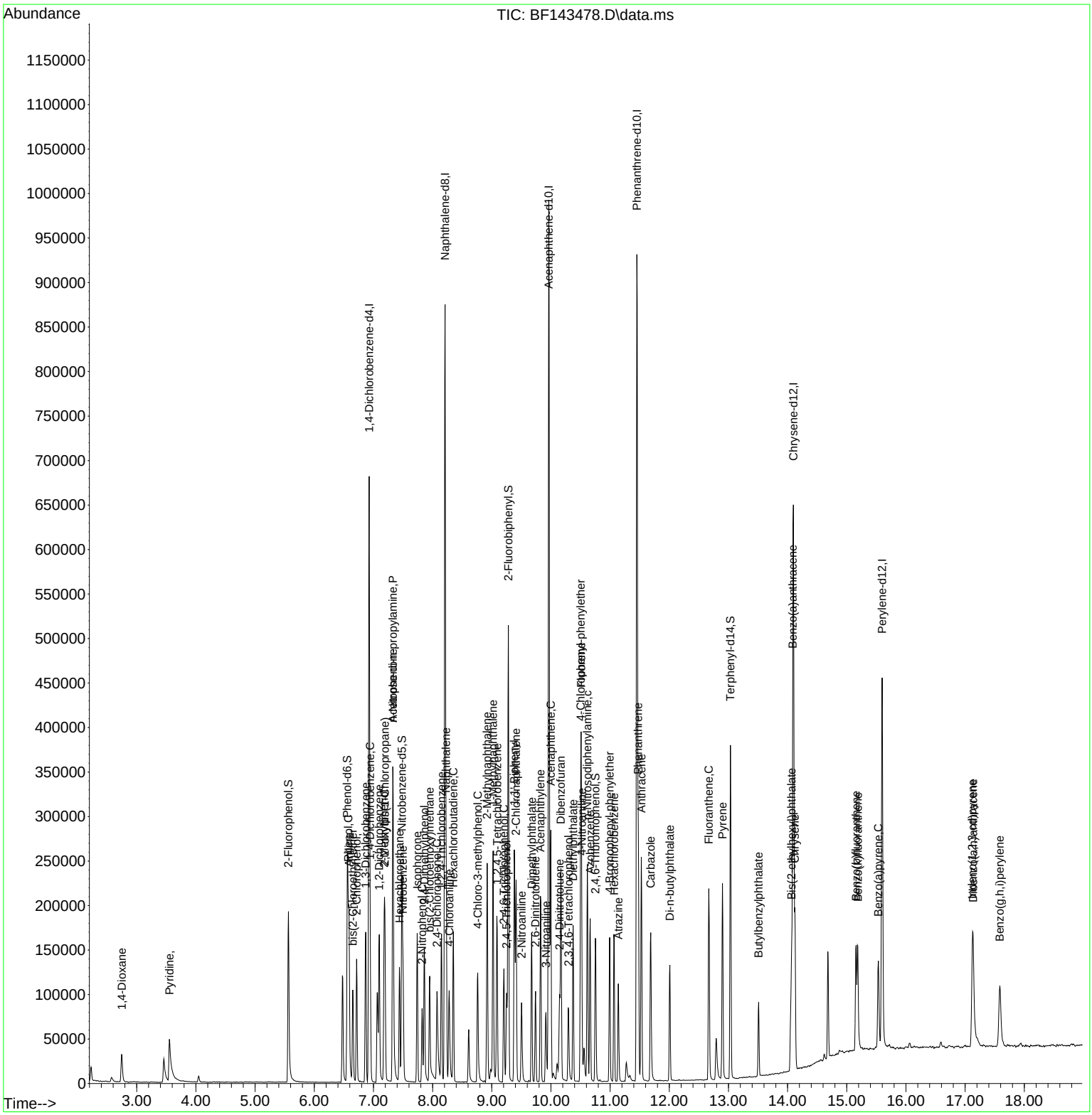
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
52) Acenaphthene	9.998	154	86399	5.402	ng		100
53) 3-Nitroaniline	9.916	138	19195	4.817	ng		98
55) Dibenzofuran	10.169	168	126806	5.561	ng		100
57) 2,4-Dinitrotoluene	10.145	165	21578	4.382	ng		90
58) Fluorene	10.510	166	100926	5.751	ng		100
59) 2,3,4,6-Tetrachlorophenol	10.298	232	19308	4.576	ng	#	97
60) Diethylphthalate	10.375	149	86539	5.425	ng		99
61) 4-Chlorophenyl-phenyle...	10.504	204	49563	5.647	ng		97
62) 4-Nitroaniline	10.522	138	16999	4.645	ng		99
63) Azobenzene	10.663	77	90174	5.452	ng		99
66) n-Nitrosodiphenylamine	10.616	169	81920	5.314	ng		99
67) 4-Bromophenyl-phenylether	10.992	248	29139	5.098	ng		95
68) Hexachlorobenzene	11.069	284	31905	5.178	ng		99
69) Atrazine	11.139	200	18453	4.637	ng		97
71) Phenanthrene	11.475	178	142334	5.548	ng		99
72) Anthracene	11.528	178	142673	5.490	ng		99
73) Carbazole	11.686	167	113696	5.339	ng		99
74) Di-n-butylphthalate	12.010	149	93617	4.712	ng		100
75) Fluoranthene	12.669	202	127015	5.518	ng		98
78) Pyrene	12.898	202	130407	5.748	ng		99
80) Butylbenzylphthalate	13.510	149	26173	4.223	ng		99
81) Benzo(a)anthracene	14.086	228	89757	5.055	ng		99
83) Chrysene	14.121	228	86291	5.408	ng		99
84) Bis(2-ethylhexyl)phtha...	14.069	149	41348	4.380	ng		99
87) Indeno(1,2,3-cd)pyrene	17.121	276	91654	4.958	ng		98
88) Benzo(b)fluoranthene	15.157	252	72988	5.104	ng		99
89) Benzo(k)fluoranthene	15.186	252	74440	5.437	ng		99
90) Benzo(a)pyrene	15.533	252	66416	5.004	ng		99
91) Dibenzo(a,h)anthracene	17.139	278	73229	4.946	ng		98
92) Benzo(g,h,i)perylene	17.586	276	72556	4.928	ng		98

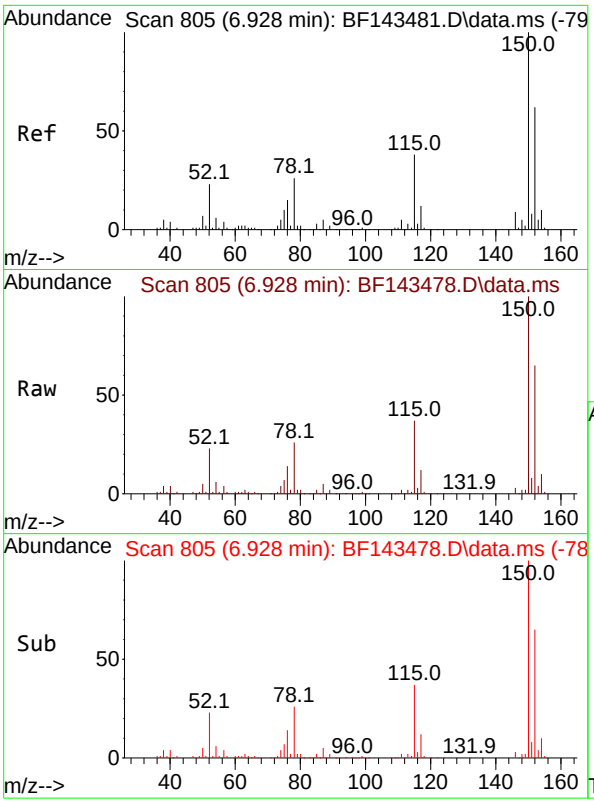
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082025\
Data File : BF143478.D
Acq On : 20 Aug 2025 11:25
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Quant Time: Aug 20 16:19:48 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 20 15:07:46 2025
Response via : Initial Calibration



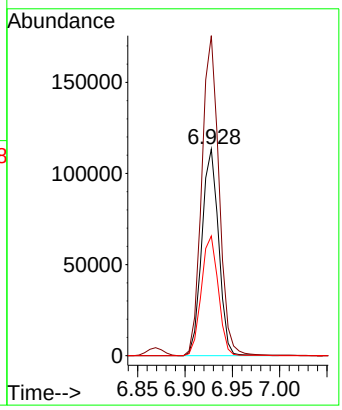


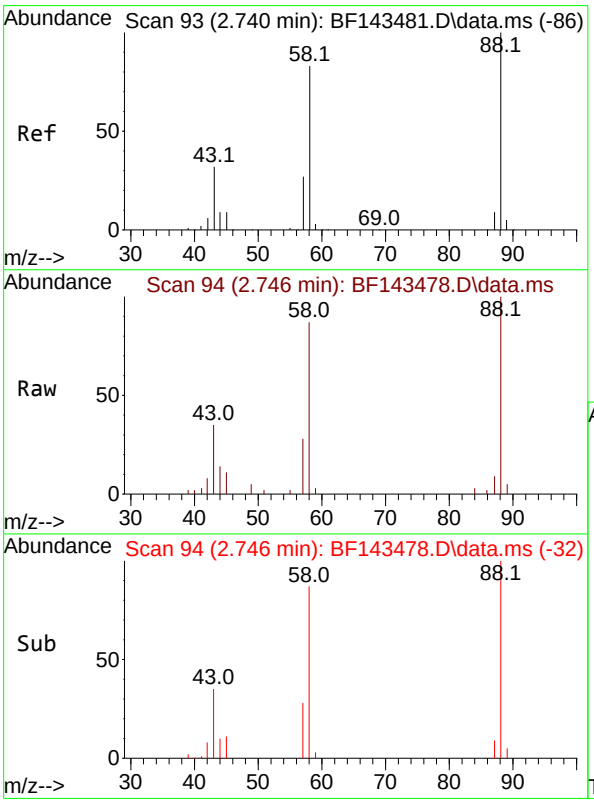
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.928 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF143478.D
Acq: 20 Aug 2025 11:25

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:152 Resp: 139746

Ion	Ratio	Lower	Upper
152	100		
150	154.9	128.9	193.3
115	58.0	49.2	73.8

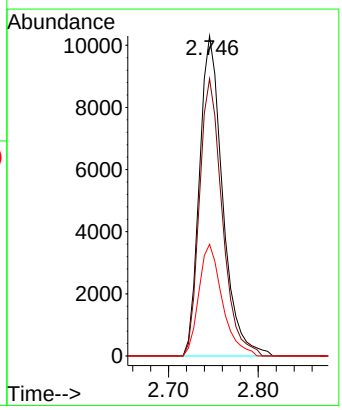


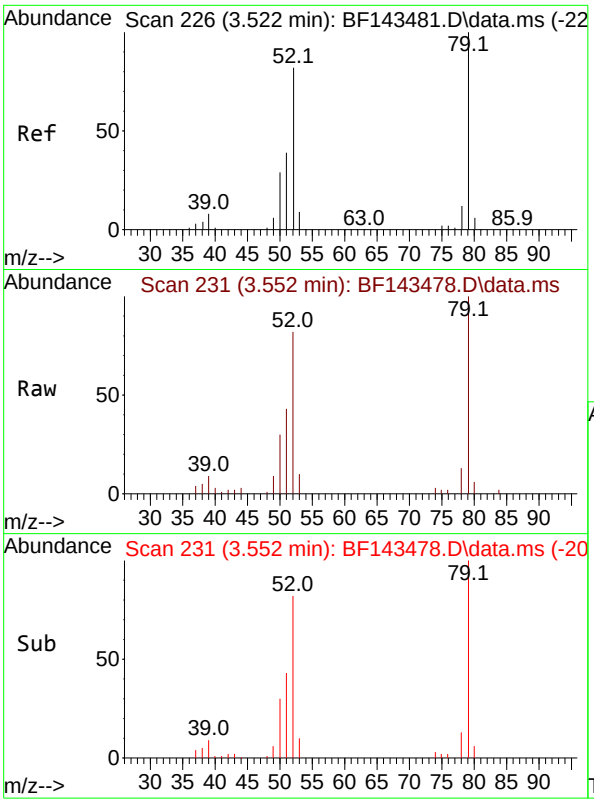


#2
1,4-Dioxane
Concen: 4.976 ng
RT: 2.746 min Scan# 94
Delta R.T. 0.012 min
Lab File: BF143478.D
Acq: 20 Aug 2025 11:25

Tgt Ion: 88 Resp: 18448

Ion	Ratio	Lower	Upper
88	100		
58	85.1	66.7	100.1
43	35.4	25.8	38.8



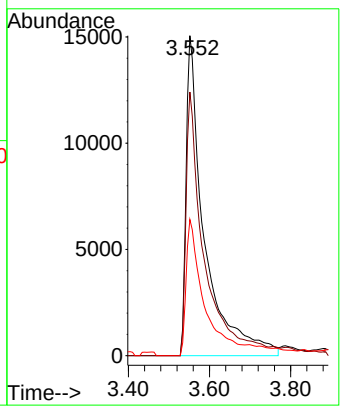


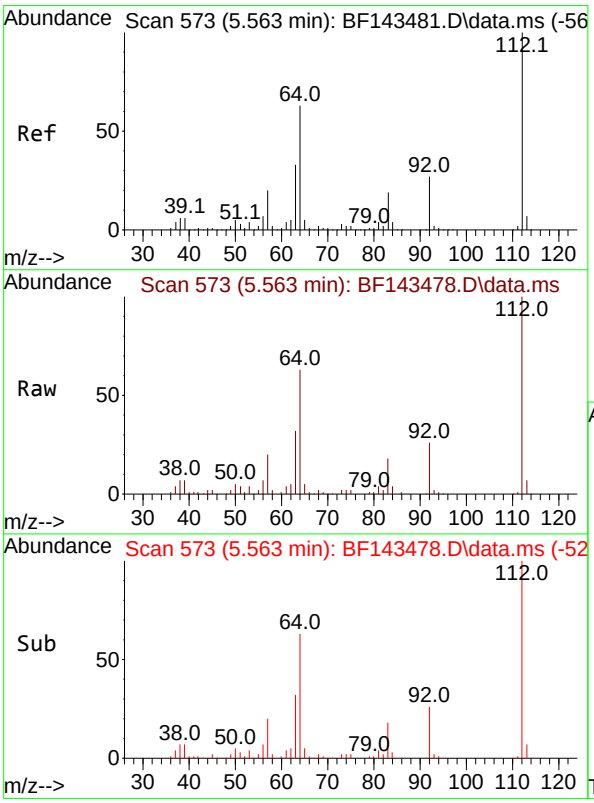
#3
Pyridine
Concen: 4.739 ng
RT: 3.552 min Scan# 2
Delta R.T. 0.035 min
Lab File: BF143478.D
Acq: 20 Aug 2025 11:25

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion: 79 Resp: 46794

Ion	Ratio	Lower	Upper
79	100		
52	82.4	65.6	98.4
51	42.6	31.2	46.8

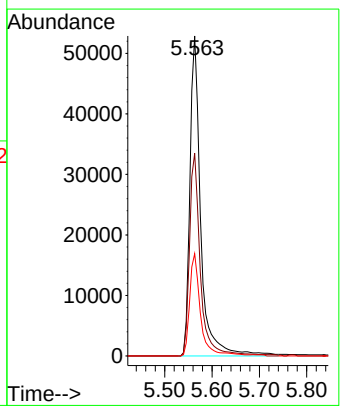


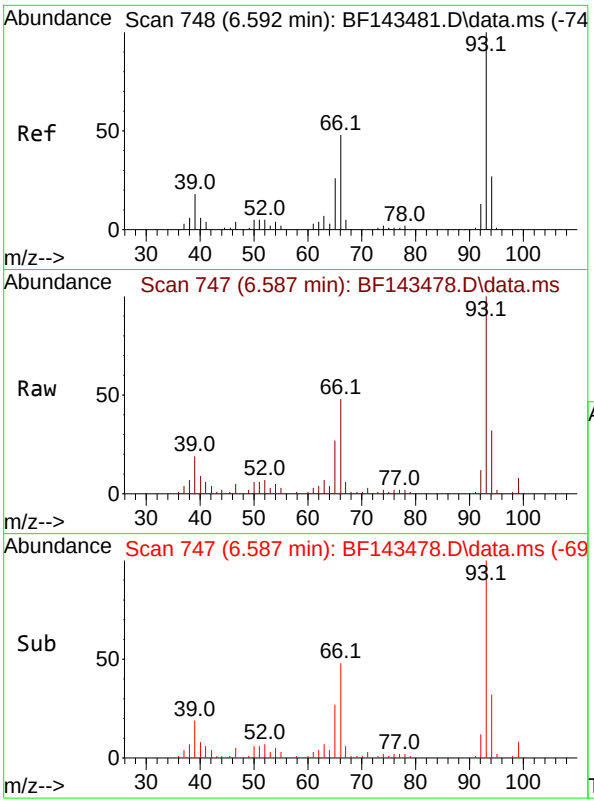


#5
2-Fluorophenol
Concen: 10.505 ng
RT: 5.563 min Scan# 573
Delta R.T. 0.000 min
Lab File: BF143478.D
Acq: 20 Aug 2025 11:25

Tgt Ion:112 Resp: 84074

Ion	Ratio	Lower	Upper
112	100		
64	63.4	50.4	75.6
63	32.0	26.4	39.6



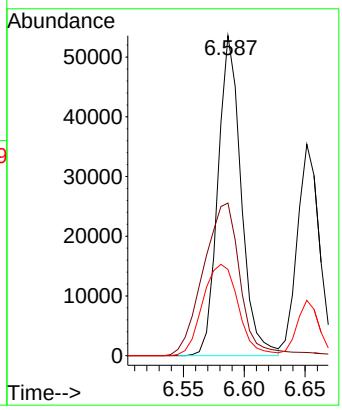


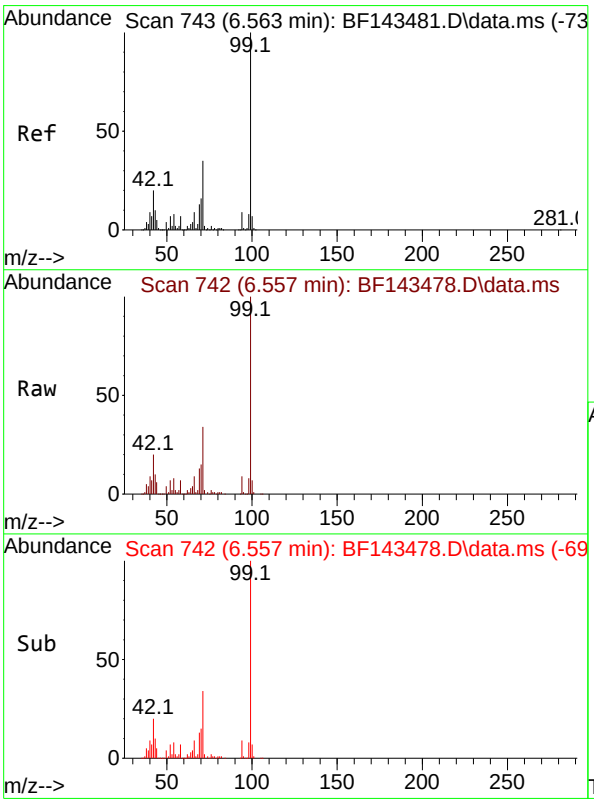
#6
Aniline
Concen: 5.381 ng
RT: 6.587 min Scan# 74
Delta R.T. -0.006 min
Lab File: BF143478.D
Acq: 20 Aug 2025 11:25

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion: 93 Resp: 71052

Ion	Ratio	Lower	Upper
93	100		
66	47.7	38.9	58.3
65	27.0	20.6	30.8

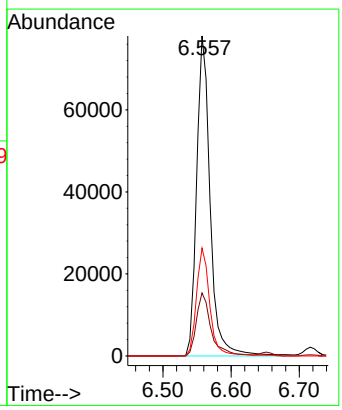


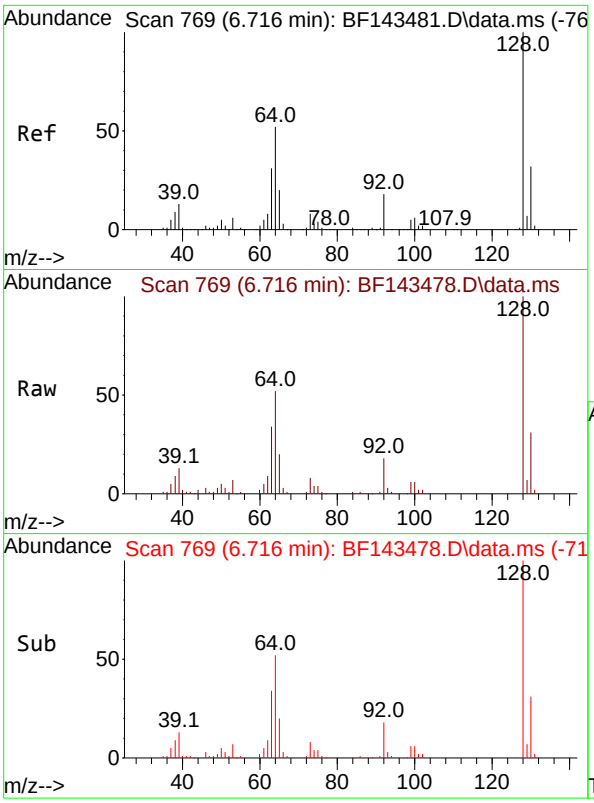


#7
Phenol-d6
Concen: 10.867 ng
RT: 6.557 min Scan# 742
Delta R.T. -0.018 min
Lab File: BF143478.D
Acq: 20 Aug 2025 11:25

Tgt Ion: 99 Resp: 107354

Ion	Ratio	Lower	Upper
99	100		
42	19.7	16.3	24.5
71	33.7	28.2	42.2



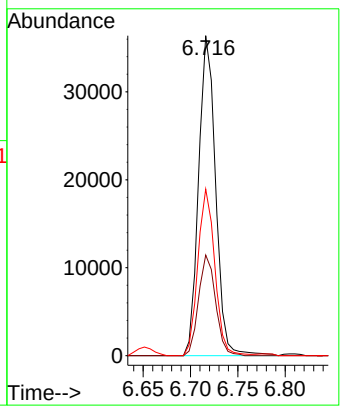


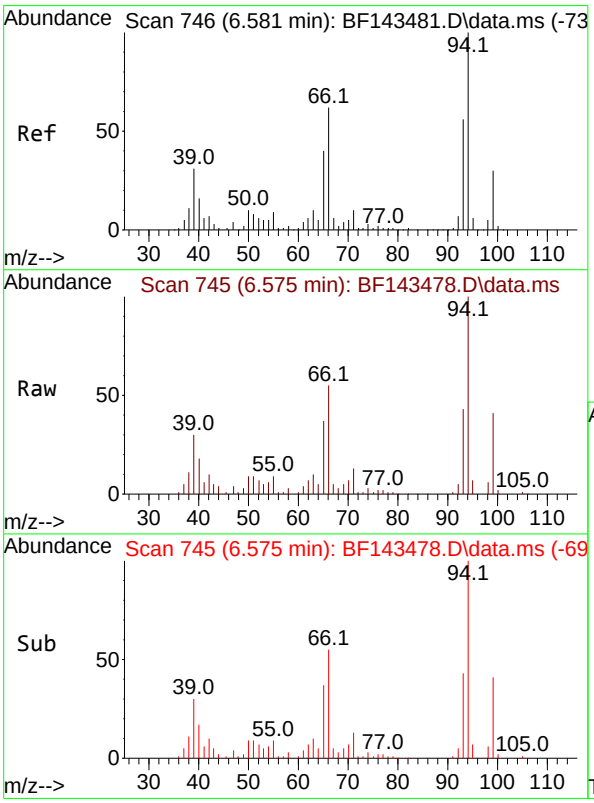
#8
2-Chlorophenol
Concen: 5.142 ng
RT: 6.716 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF143478.D
Acq: 20 Aug 2025 11:25

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:128 Resp: 45449

Ion	Ratio	Lower	Upper
128	100		
130	31.5	12.4	52.4
64	52.0	31.6	71.6

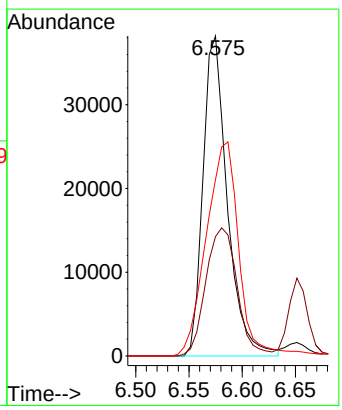


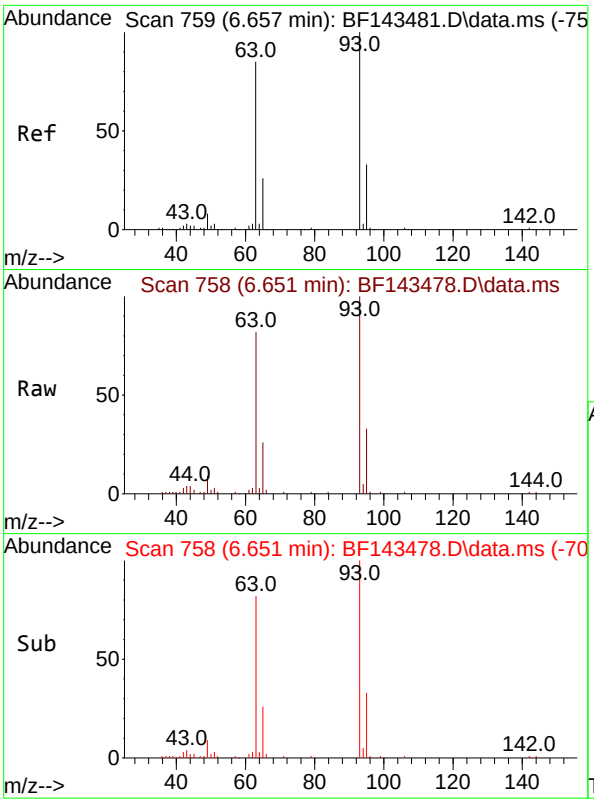


#10
Phenol
Concen: 5.343 ng
RT: 6.575 min Scan# 745
Delta R.T. -0.012 min
Lab File: BF143478.D
Acq: 20 Aug 2025 11:25

Tgt Ion: 94 Resp: 60812

Ion	Ratio	Lower	Upper
94	100		
65	37.3	19.5	59.5
66	55.1	42.5	82.5



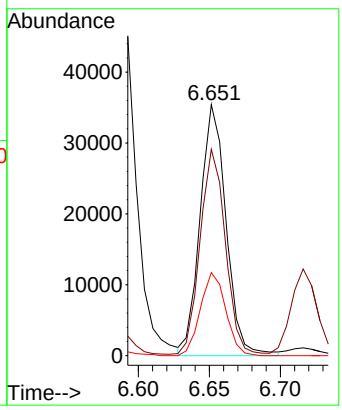


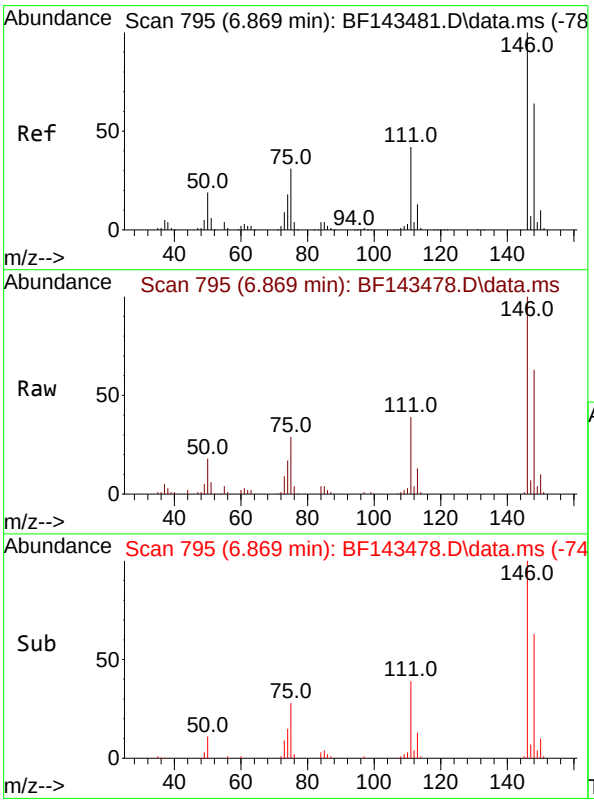
#11
bis(2-Chloroethyl)ether
Concen: 5.323 ng
RT: 6.651 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF143478.D
Acq: 20 Aug 2025 11:25

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion: 93 Resp: 45274

Ion	Ratio	Lower	Upper
93	100		
63	82.2	63.6	103.6
95	33.1	12.8	52.8

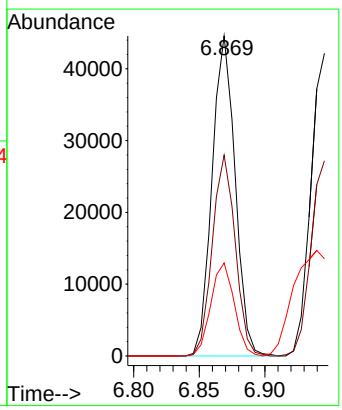


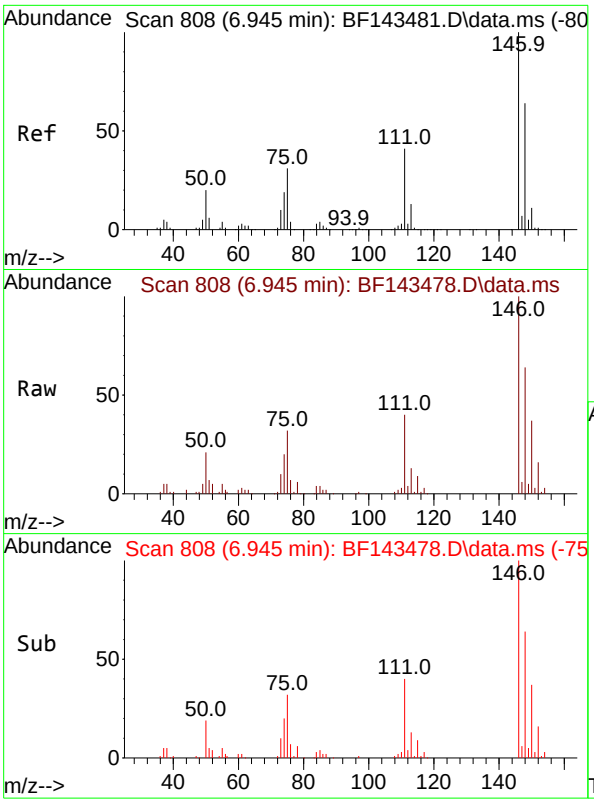


#12
1,3-Dichlorobenzene
Concen: 5.480 ng
RT: 6.869 min Scan# 795
Delta R.T. -0.006 min
Lab File: BF143478.D
Acq: 20 Aug 2025 11:25

Tgt Ion:146 Resp: 54424

Ion	Ratio	Lower	Upper
146	100		
148	62.8	51.3	76.9
75	29.1	24.7	37.1



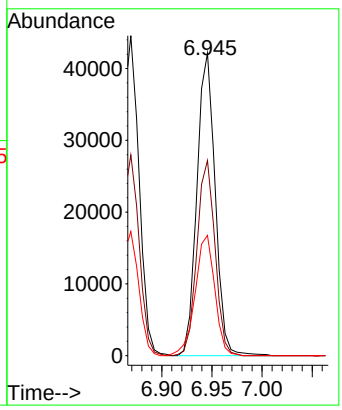


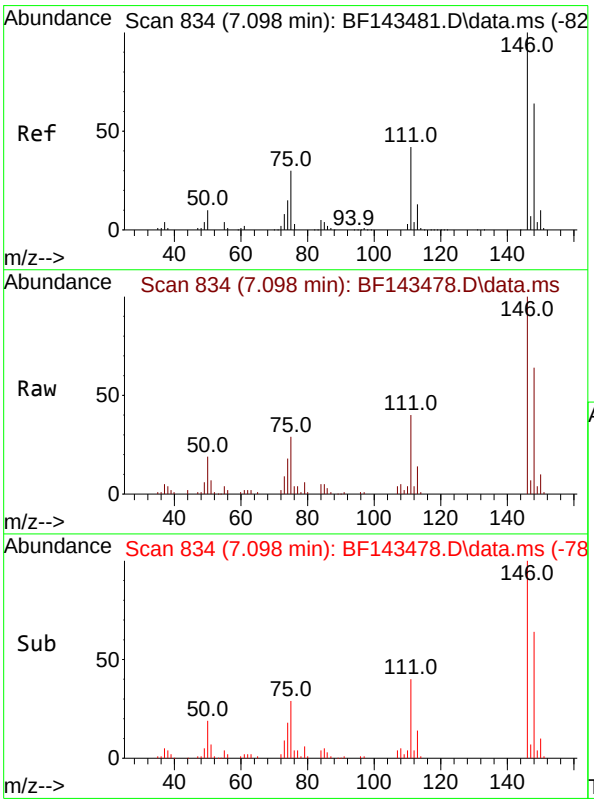
#13
1,4-Dichlorobenzene
Concen: 5.368 ng
RT: 6.945 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF143478.D
Acq: 20 Aug 2025 11:25

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:146 Resp: 53485

Ion	Ratio	Lower	Upper
146	100		
148	64.5	51.5	77.3
111	39.7	32.6	49.0

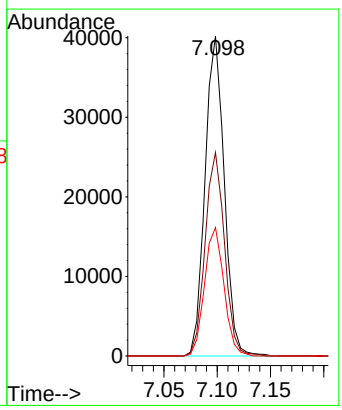


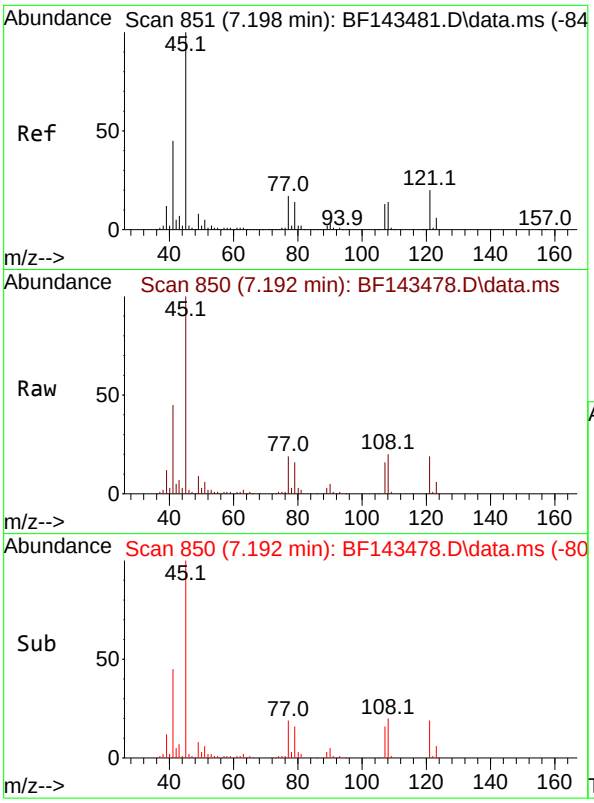


#14
1,2-Dichlorobenzene
Concen: 5.362 ng
RT: 7.098 min Scan# 834
Delta R.T. 0.000 min
Lab File: BF143478.D
Acq: 20 Aug 2025 11:25

Tgt Ion:146 Resp: 50580

Ion	Ratio	Lower	Upper
146	100		
148	63.6	51.0	76.6
111	40.2	34.0	51.0



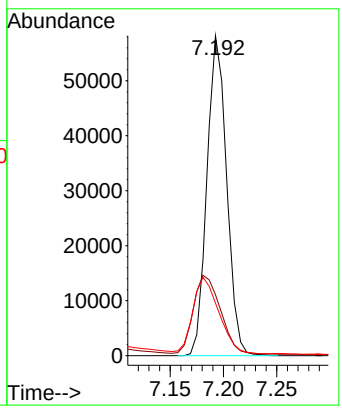


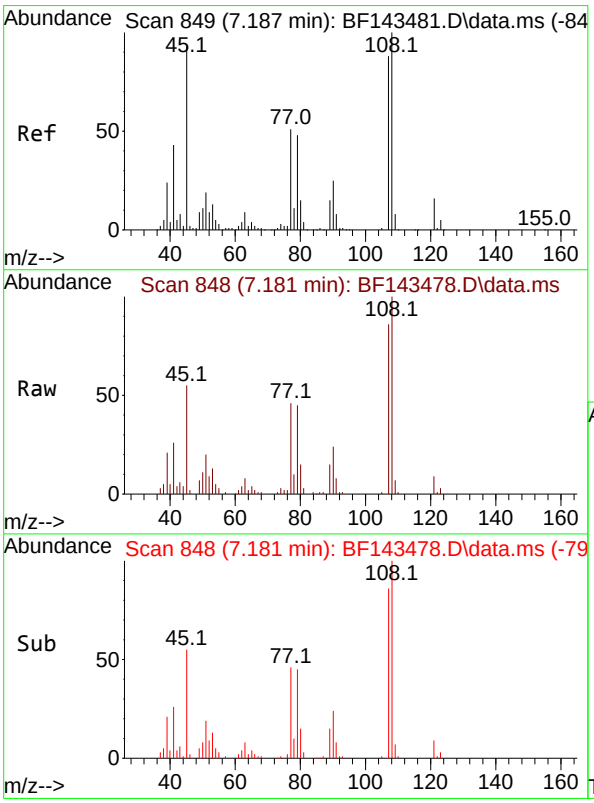
#16
2,2'-oxybis(1-Chloropropane)
Concen: 5.504 ng
RT: 7.192 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF143478.D
Acq: 20 Aug 2025 11:25

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion: 45 Resp: 74897

Ion	Ratio	Lower	Upper
45	100		
77	19.0	0.0	37.9
79	16.4	0.0	34.7

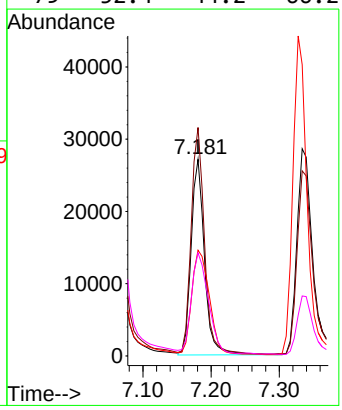


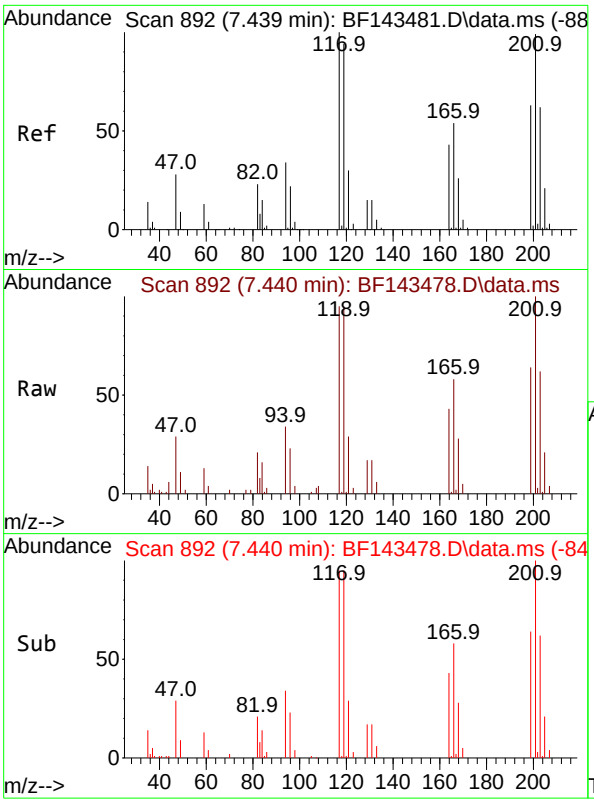


#17
2-Methylphenol
Concen: 5.180 ng
RT: 7.181 min Scan# 848
Delta R.T. -0.006 min
Lab File: BF143478.D
Acq: 20 Aug 2025 11:25

Tgt Ion:107 Resp: 36752

Ion	Ratio	Lower	Upper
107	100		
108	116.1	91.1	136.7
77	53.7	46.2	69.4
79	52.4	44.2	66.2



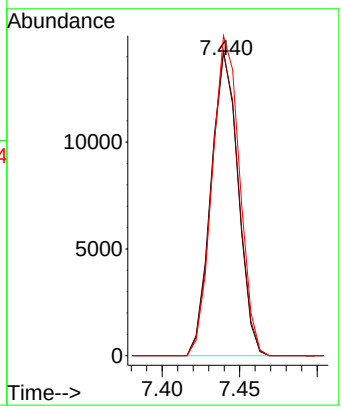


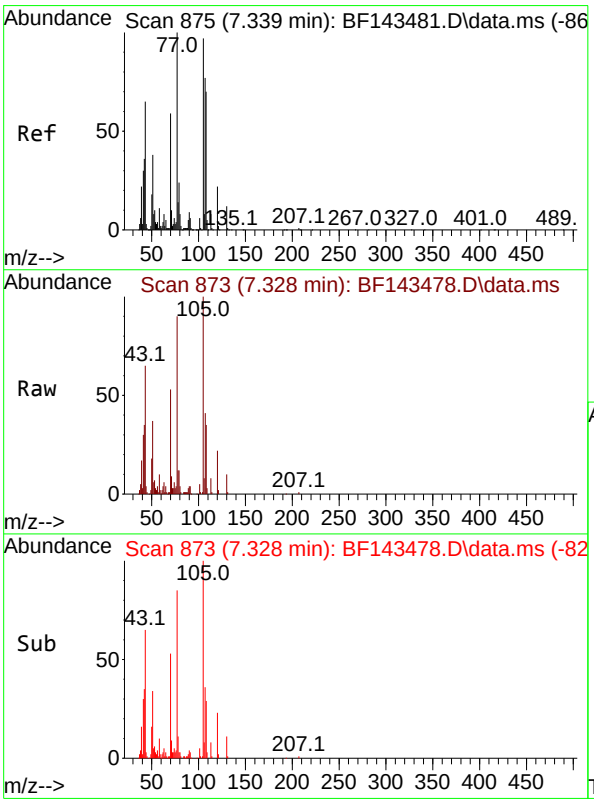
#18
Hexachloroethane
Concen: 5.108 ng
RT: 7.440 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF143478.D
Acq: 20 Aug 2025 11:25

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:117 Resp: 17304

Ion	Ratio	Lower	Upper
117	100		
119	99.6	75.4	113.0
201	105.1	79.0	118.4

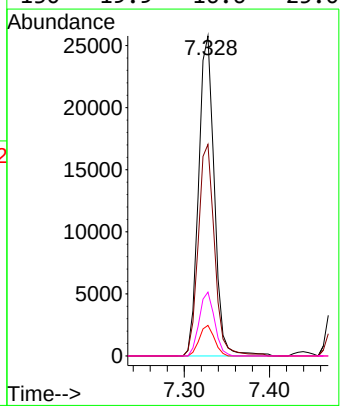


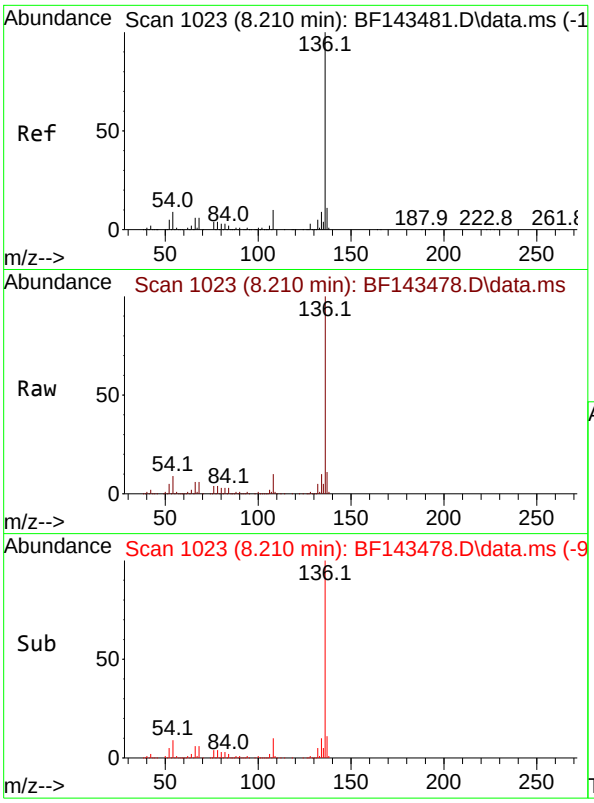


#19
n-Nitroso-di-n-propylamine
Concen: 5.458 ng
RT: 7.328 min Scan# 873
Delta R.T. -0.024 min
Lab File: BF143478.D
Acq: 20 Aug 2025 11:25

Tgt Ion: 70 Resp: 32958

Ion	Ratio	Lower	Upper
70	100		
42	66.1	49.3	73.9
101	9.5	7.8	11.8
130	19.9	16.6	25.0



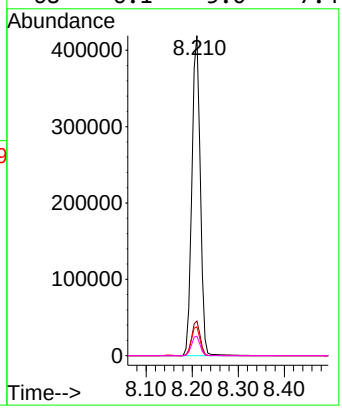


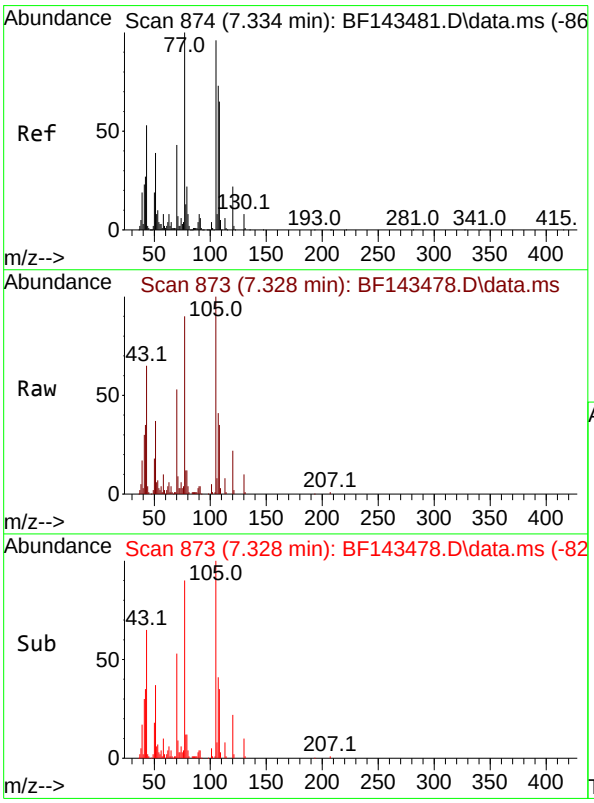
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.210 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143478.D
Acq: 20 Aug 2025 11:25

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:136 Resp: 528467

Ion	Ratio	Lower	Upper
136	100		
137	10.9	9.0	13.4
54	9.0	7.4	11.2
68	6.1	5.0	7.4

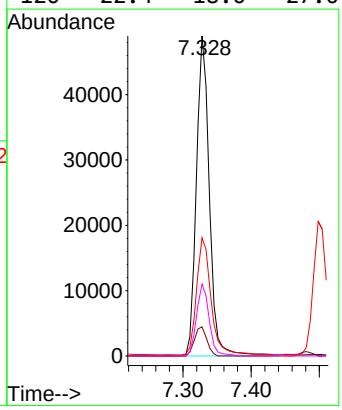


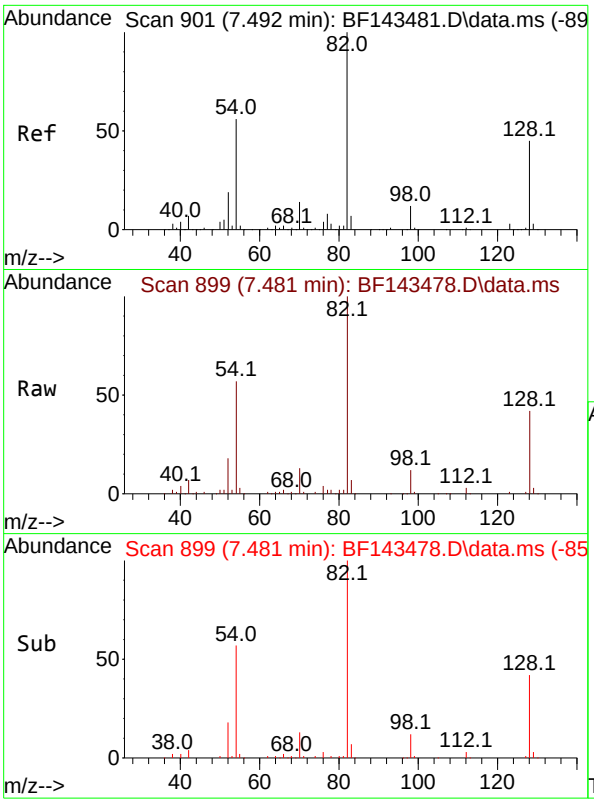


#22
Acetophenone
Concen: 5.658 ng
RT: 7.328 min Scan# 873
Delta R.T. -0.012 min
Lab File: BF143478.D
Acq: 20 Aug 2025 11:25

Tgt Ion:105 Resp: 64602

Ion	Ratio	Lower	Upper
105	100		
71	9.1	5.9	8.9#
51	36.9	32.5	48.7
120	22.4	18.0	27.0



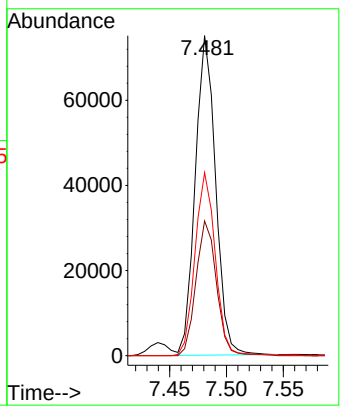


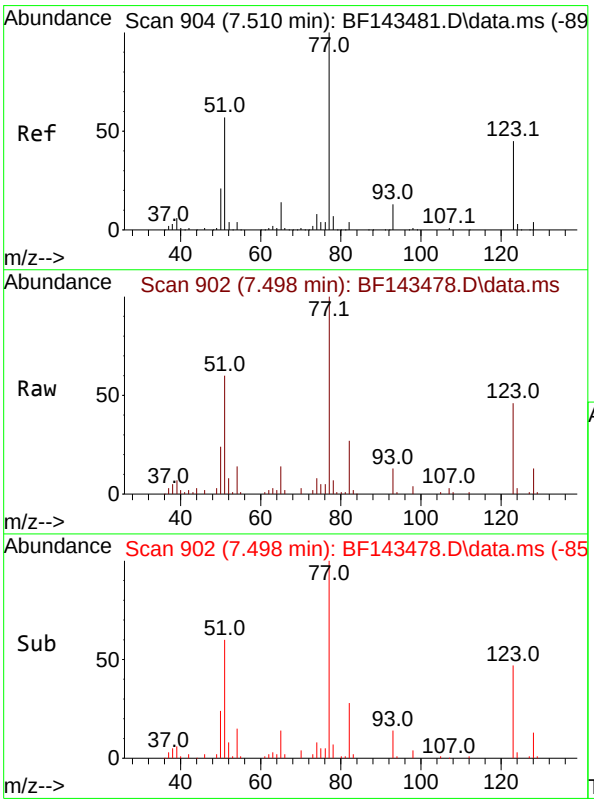
#23
Nitrobenzene-d5
Concen: 10.327 ng
RT: 7.481 min Scan# 8
Delta R.T. -0.018 min
Lab File: BF143478.D
Acq: 20 Aug 2025 11:25

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion: 82 Resp: 93525

Ion	Ratio	Lower	Upper
82	100		
128	42.1	35.5	53.3
54	57.2	44.3	66.5

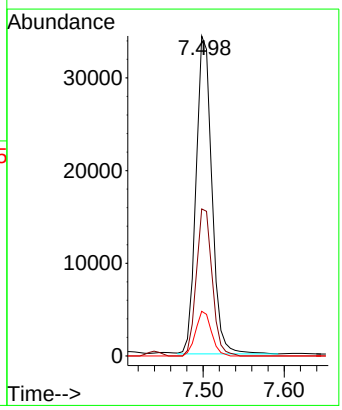


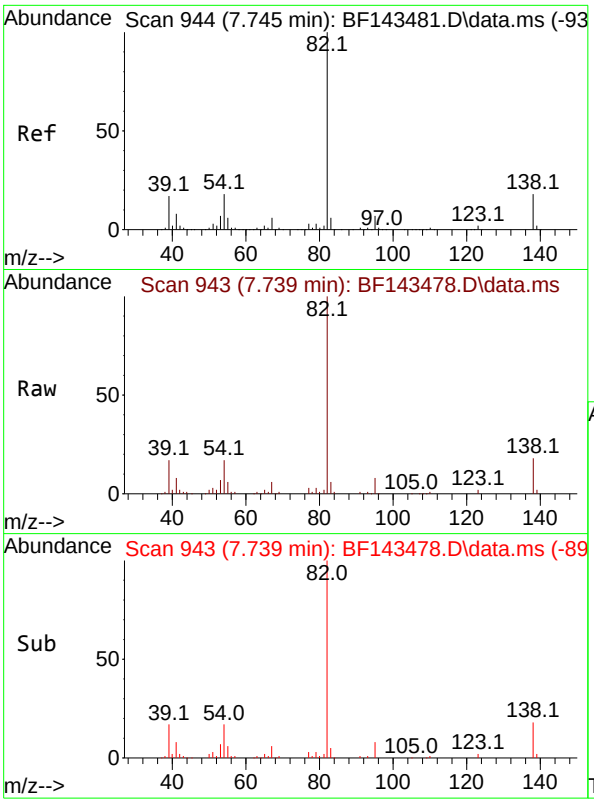


#24
Nitrobenzene
Concen: 5.004 ng
RT: 7.498 min Scan# 902
Delta R.T. -0.018 min
Lab File: BF143478.D
Acq: 20 Aug 2025 11:25

Tgt Ion: 77 Resp: 46642

Ion	Ratio	Lower	Upper
77	100		
123	46.0	36.1	54.1
65	14.0	11.0	16.6



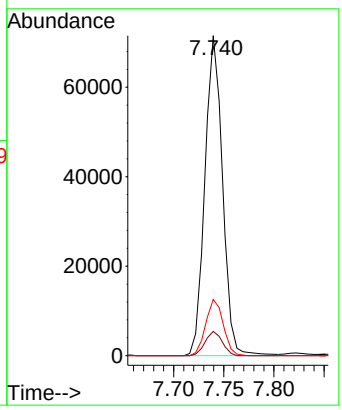


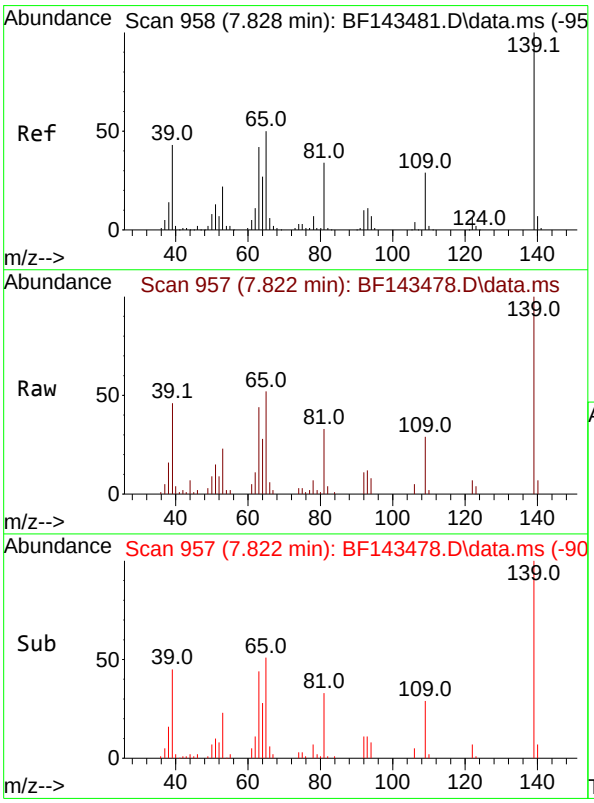
#25
Isophorone
Concen: 5.298 ng
RT: 7.739 min Scan# 94
Delta R.T. -0.018 min
Lab File: BF143478.D
Acq: 20 Aug 2025 11:25

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion: 82 Resp: 87950

Ion	Ratio	Lower	Upper
82	100		
95	7.6	5.8	8.8
138	17.6	14.2	21.4

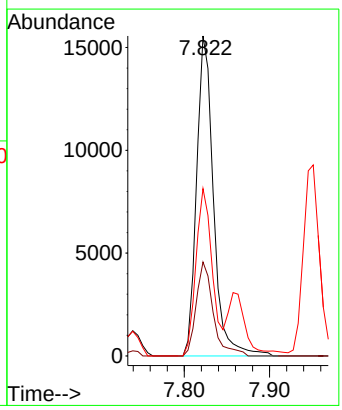


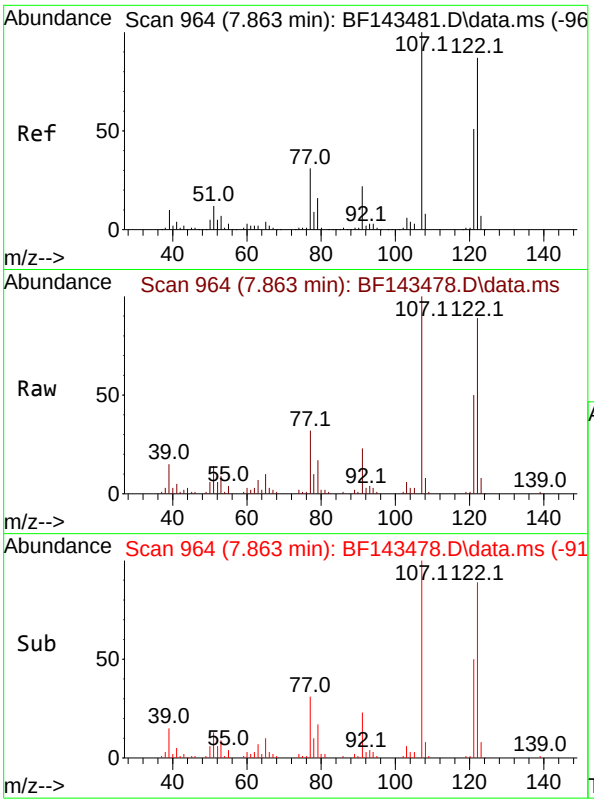


#26
2-Nitrophenol
Concen: 4.697 ng
RT: 7.822 min Scan# 957
Delta R.T. -0.006 min
Lab File: BF143478.D
Acq: 20 Aug 2025 11:25

Tgt Ion:139 Resp: 21447

Ion	Ratio	Lower	Upper
139	100		
109	29.3	23.0	34.6
65	52.3	40.3	60.5



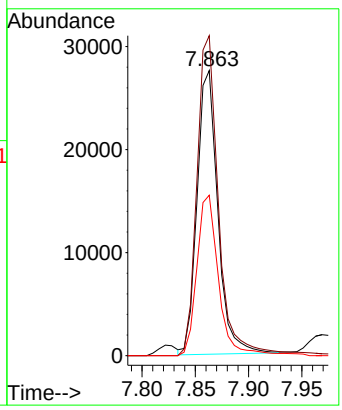


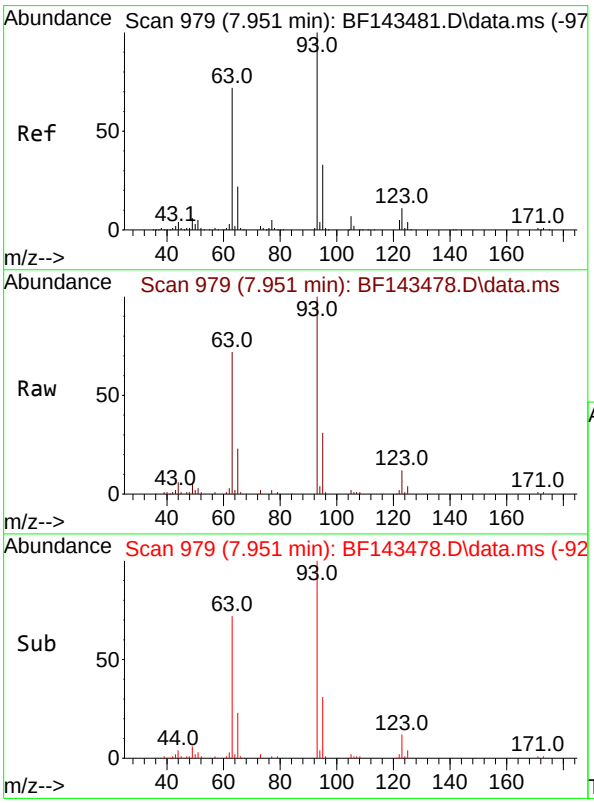
#27
2,4-Dimethylphenol
Concen: 5.255 ng
RT: 7.863 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF143478.D
Acq: 20 Aug 2025 11:25

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:122 Resp: 37403

Ion	Ratio	Lower	Upper
122	100		
107	112.2	91.5	137.3
121	56.3	47.0	70.4

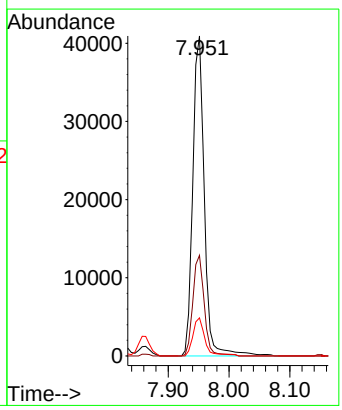


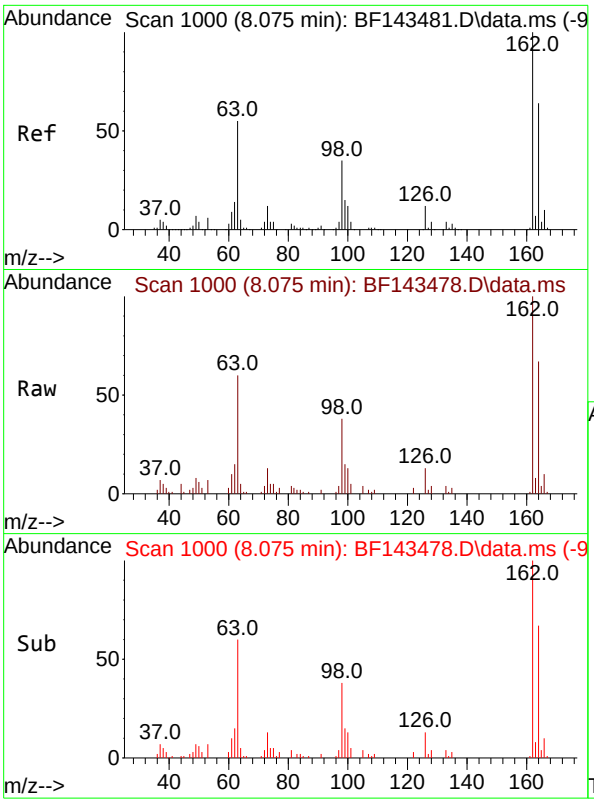


#28
bis(2-Chloroethoxy)methane
Concen: 5.299 ng
RT: 7.951 min Scan# 979
Delta R.T. -0.006 min
Lab File: BF143478.D
Acq: 20 Aug 2025 11:25

Tgt Ion: 93 Resp: 54059

Ion	Ratio	Lower	Upper
93	100		
95	31.4	26.0	39.0
123	11.9	9.1	13.7



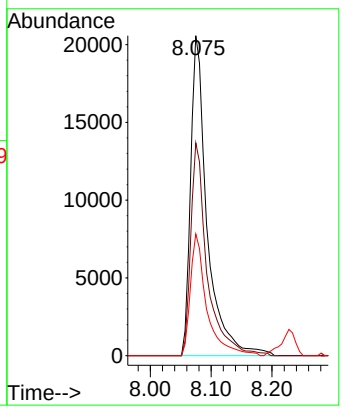


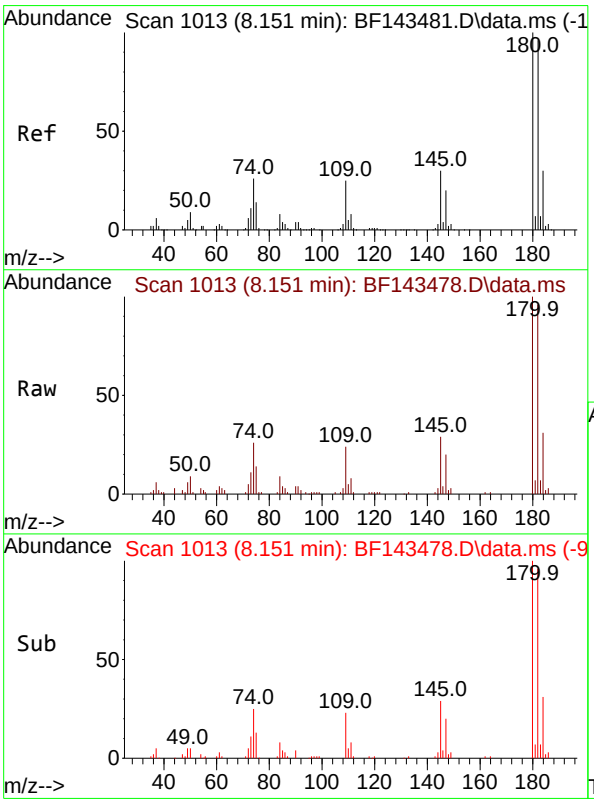
#29
2,4-Dichlorophenol
Concen: 5.093 ng
RT: 8.075 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143478.D
Acq: 20 Aug 2025 11:25

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:162 Resp: 38716

Ion	Ratio	Lower	Upper
162	100		
164	66.5	43.5	83.5
98	38.0	15.1	55.1

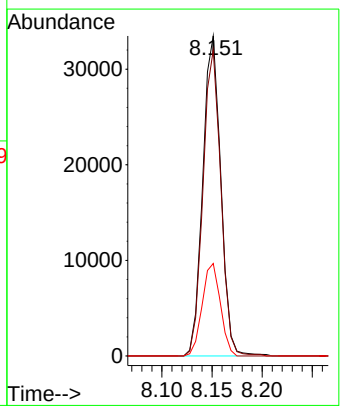


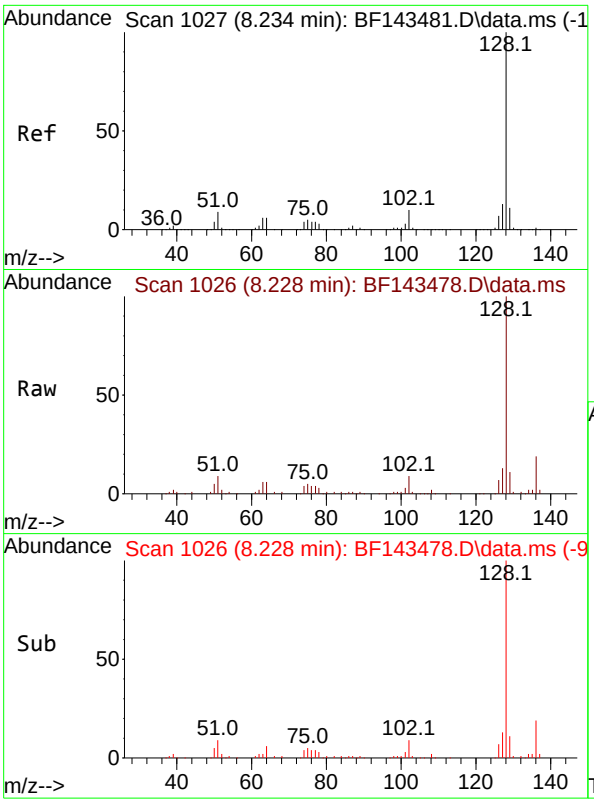


#30
1,2,4-Trichlorobenzene
Concen: 5.382 ng
RT: 8.151 min Scan# 1013
Delta R.T. 0.000 min
Lab File: BF143478.D
Acq: 20 Aug 2025 11:25

Tgt Ion:180 Resp: 42060

Ion	Ratio	Lower	Upper
180	100		
182	95.5	76.6	114.8
145	28.9	24.3	36.5



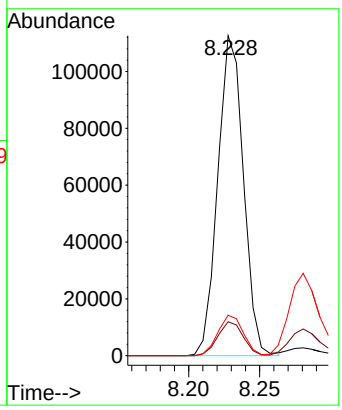


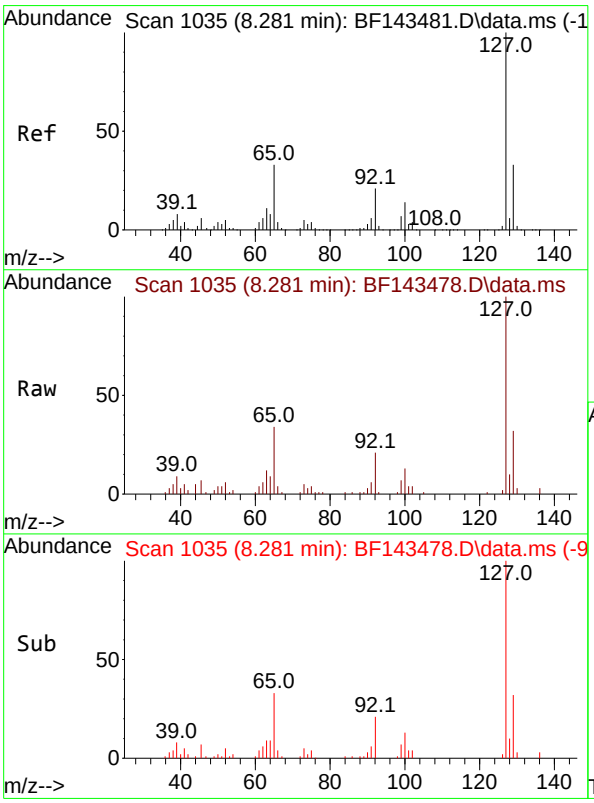
#31
Naphthalene
Concen: 5.565 ng
RT: 8.228 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143478.D
Acq: 20 Aug 2025 11:25

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:128 Resp: 141189

Ion	Ratio	Lower	Upper
128	100		
129	10.6	8.8	13.2
127	12.7	10.6	16.0

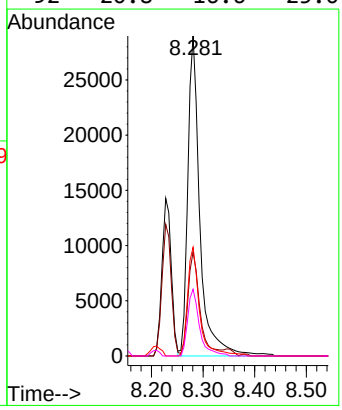


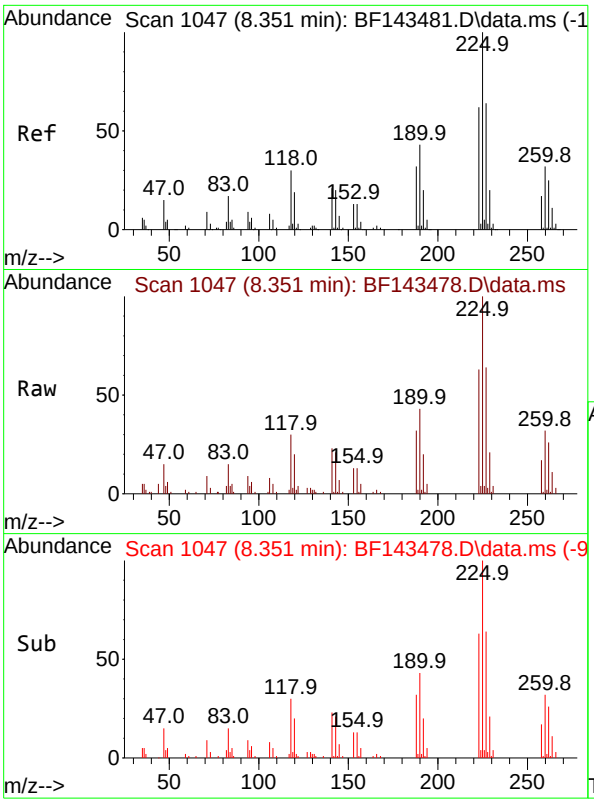


#33
4-Chloroaniline
Concen: 5.264 ng
RT: 8.281 min Scan# 1035
Delta R.T. 0.000 min
Lab File: BF143478.D
Acq: 20 Aug 2025 11:25

Tgt Ion:127 Resp: 47399

Ion	Ratio	Lower	Upper
127	100		
129	32.4	26.1	39.1
65	34.0	26.2	39.2
92	20.8	16.6	25.0



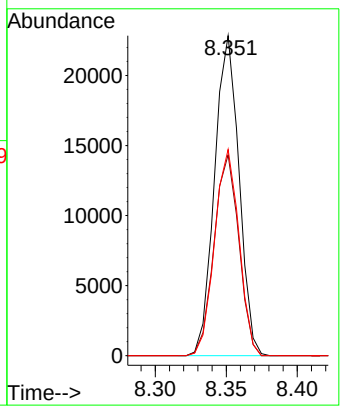


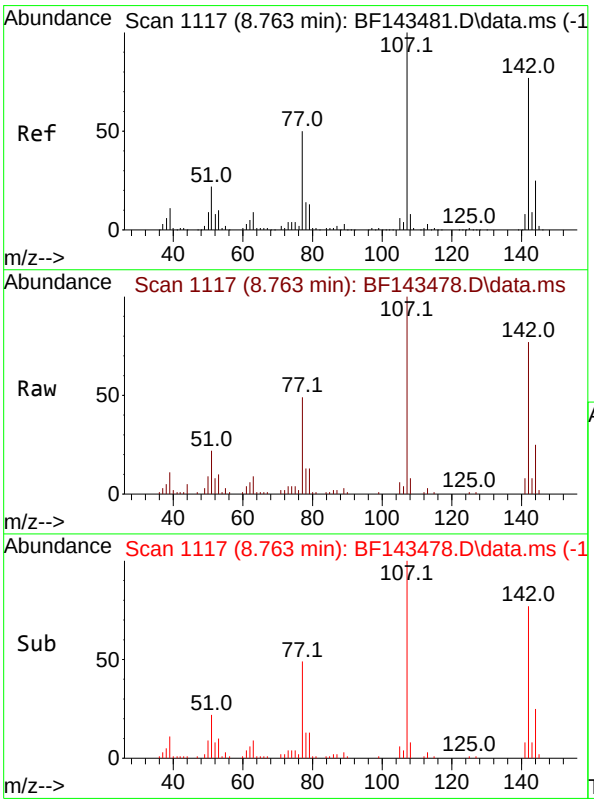
#34
Hexachlorobutadiene
Concen: 5.357 ng
RT: 8.351 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143478.D
Acq: 20 Aug 2025 11:25

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:225 Resp: 27313

Ion	Ratio	Lower	Upper
225	100		
223	62.8	49.9	74.9
227	64.5	50.9	76.3

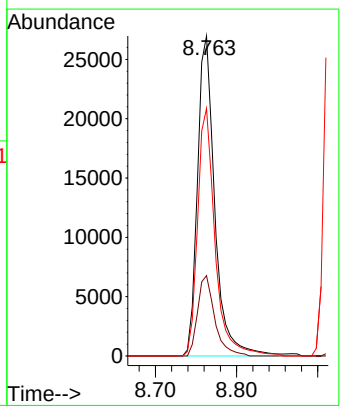


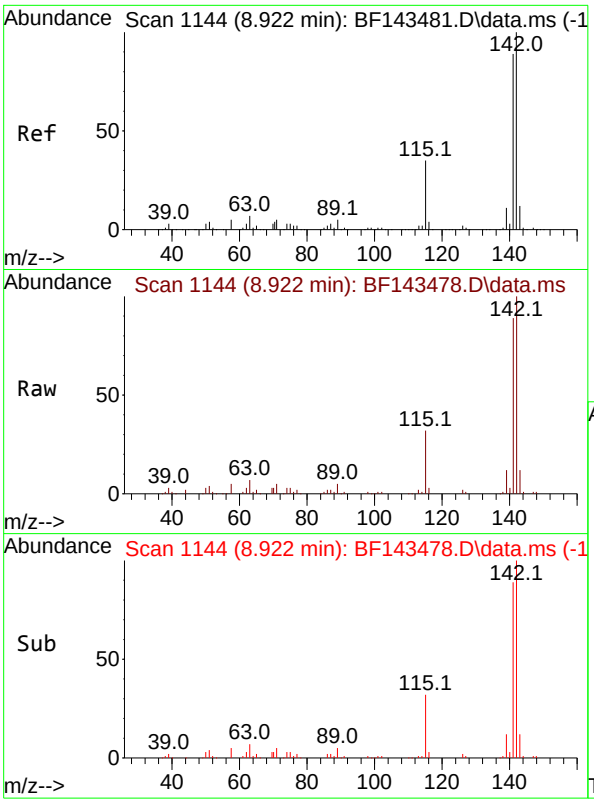


#36
4-Chloro-3-methylphenol
Concen: 5.259 ng
RT: 8.763 min Scan# 1117
Delta R.T. -0.006 min
Lab File: BF143478.D
Acq: 20 Aug 2025 11:25

Tgt Ion:107 Resp: 40059

Ion	Ratio	Lower	Upper
107	100		
144	25.1	19.9	29.9
142	77.4	61.8	92.8



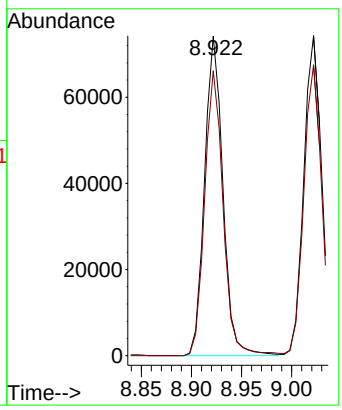


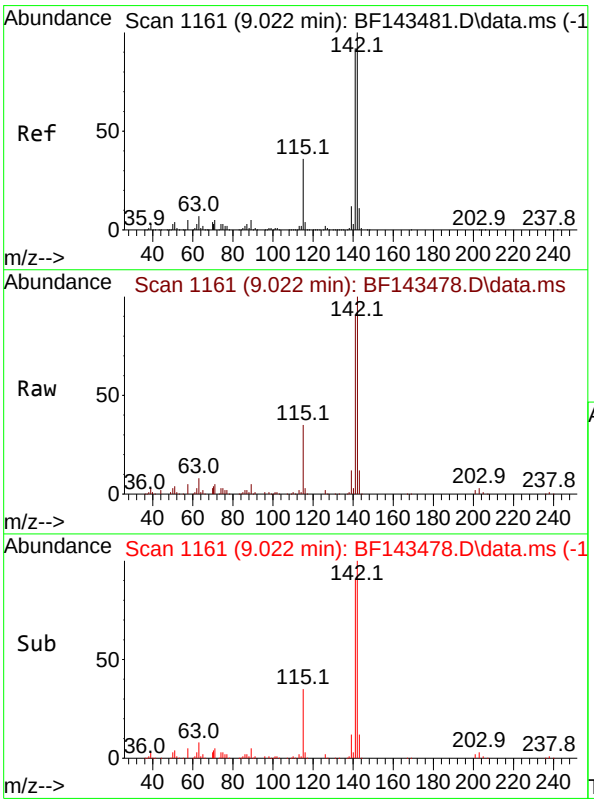
#37
2-Methylnaphthalene
Concen: 5.585 ng
RT: 8.922 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF143478.D
Acq: 20 Aug 2025 11:25

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:142 Resp: 94640

Ion	Ratio	Lower	Upper
142	100		
141	89.2	71.0	106.4

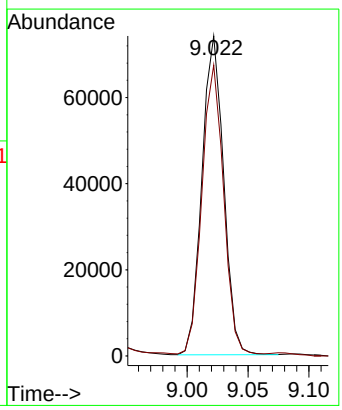


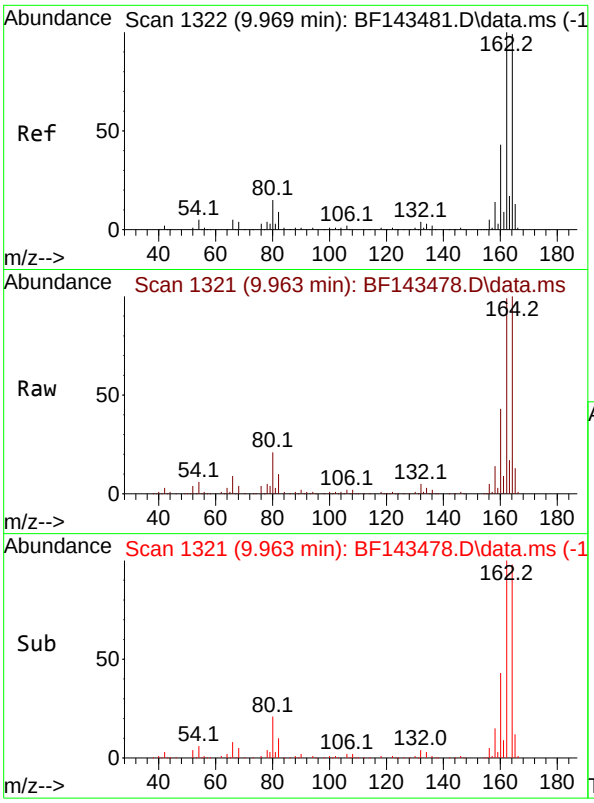


#38
1-Methylnaphthalene
Concen: 5.644 ng
RT: 9.022 min Scan# 1161
Delta R.T. -0.006 min
Lab File: BF143478.D
Acq: 20 Aug 2025 11:25

Tgt Ion:142 Resp: 91483

Ion	Ratio	Lower	Upper
142	100		
141	90.9	73.3	109.9



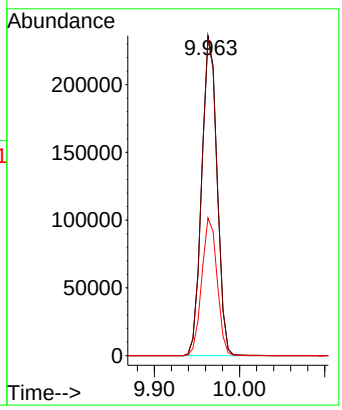


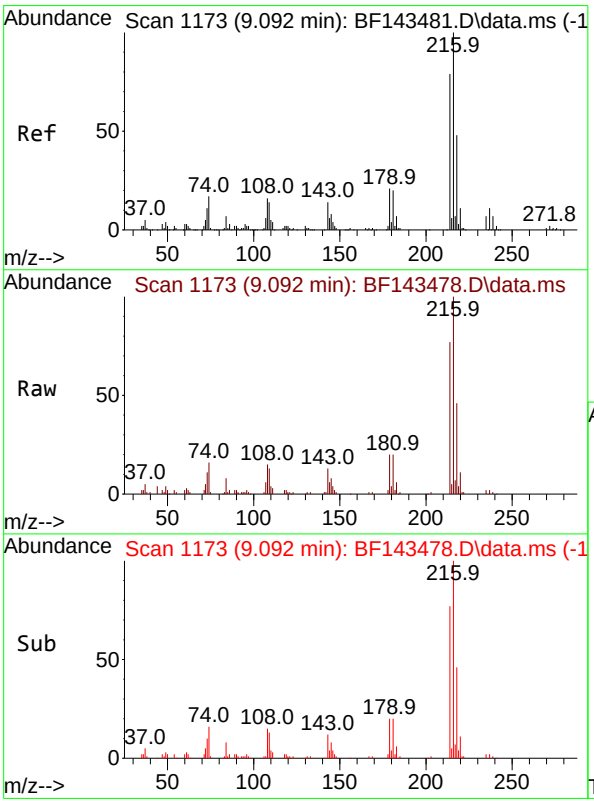
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.963 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143478.D
Acq: 20 Aug 2025 11:25

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:164 Resp: 295421

Ion	Ratio	Lower	Upper
164	100		
162	99.1	80.5	120.7
160	43.0	34.3	51.5

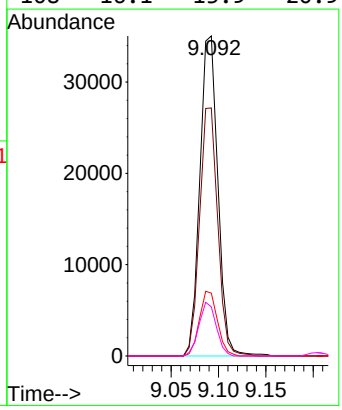


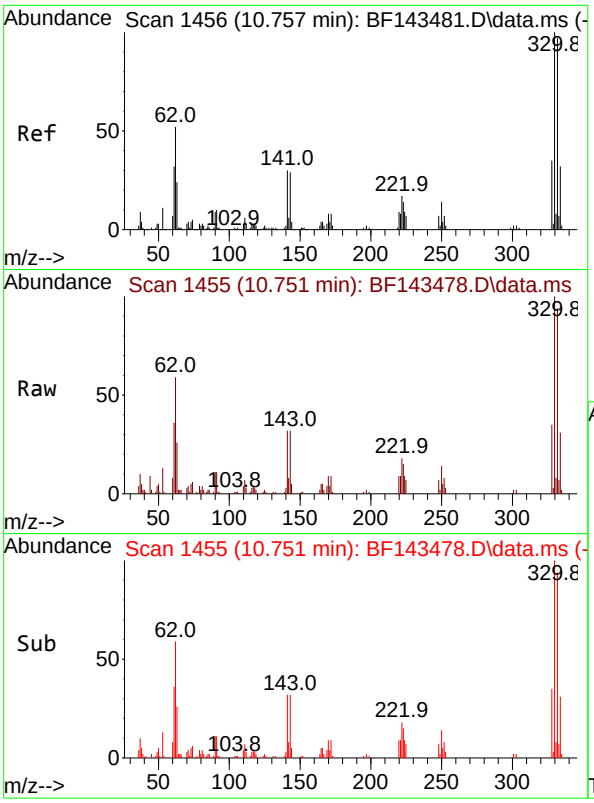


#40
1,2,4,5-Tetrachlorobenzene
Concen: 5.494 ng
RT: 9.092 min Scan# 1173
Delta R.T. 0.000 min
Lab File: BF143478.D
Acq: 20 Aug 2025 11:25

Tgt Ion:216 Resp: 46429

Ion	Ratio	Lower	Upper
216	100		
214	77.4	63.4	95.0
179	20.2	16.5	24.7
108	16.1	13.9	20.9



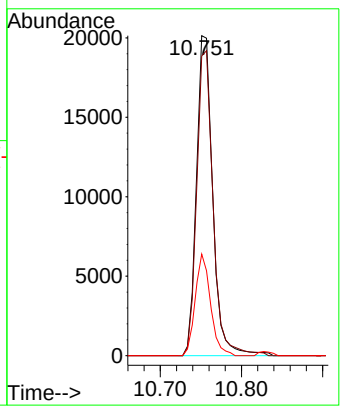


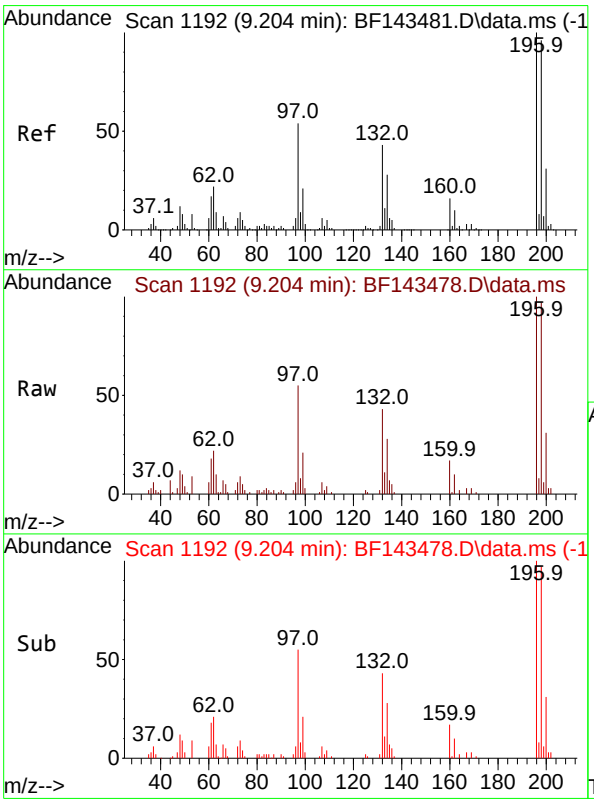
#42
2,4,6-Tribromophenol
Concen: 10.254 ng
RT: 10.751 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF143478.D
Acq: 20 Aug 2025 11:25

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:330 Resp: 28197

Ion	Ratio	Lower	Upper
330	100		
332	95.6	78.0	117.0
141	29.8	23.7	35.5

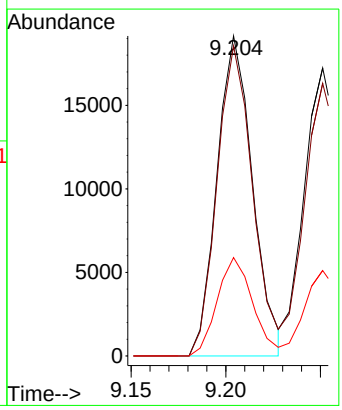


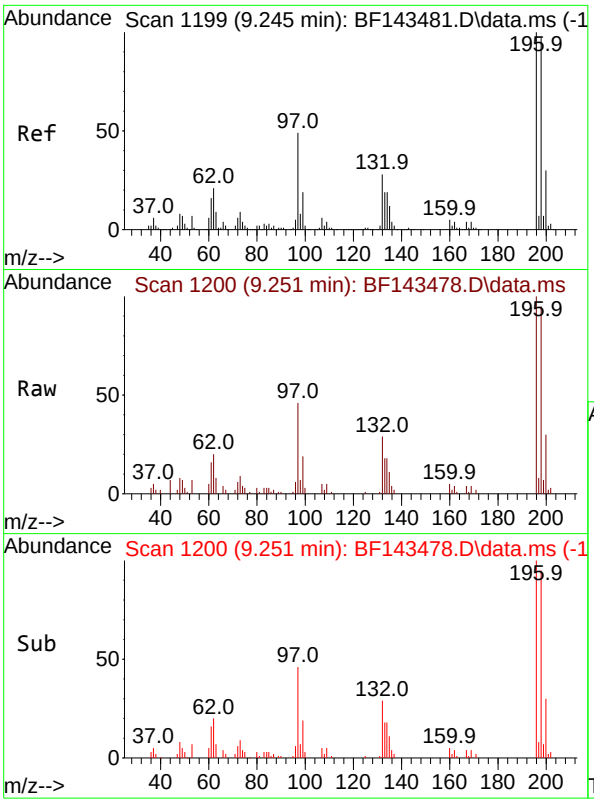


#43
2,4,6-Trichlorophenol
Concen: 4.807 ng
RT: 9.204 min Scan# 1192
Delta R.T. 0.000 min
Lab File: BF143478.D
Acq: 20 Aug 2025 11:25

Tgt Ion:196 Resp: 24994

Ion	Ratio	Lower	Upper
196	100		
198	96.9	77.0	115.4
200	30.8	24.6	37.0



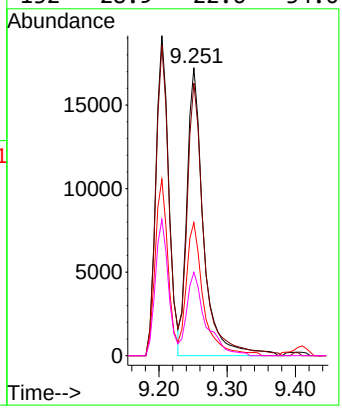


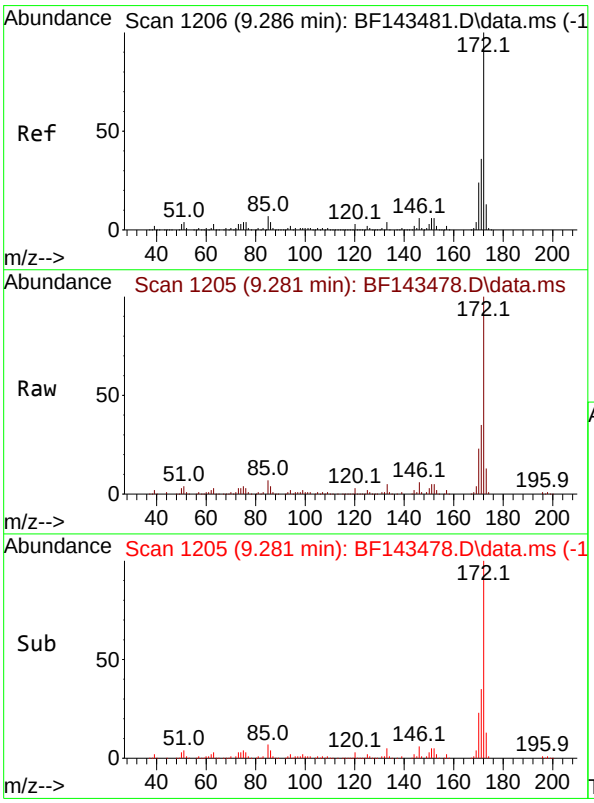
#44
2,4,5-Trichlorophenol
Concen: 5.089 ng
RT: 9.251 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143478.D
Acq: 20 Aug 2025 11:25

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:196 Resp: 28903

Ion	Ratio	Lower	Upper
196	100		
198	94.7	77.3	115.9
97	46.2	40.0	60.0
132	28.9	22.6	34.0

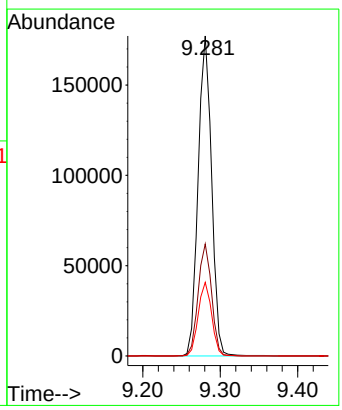


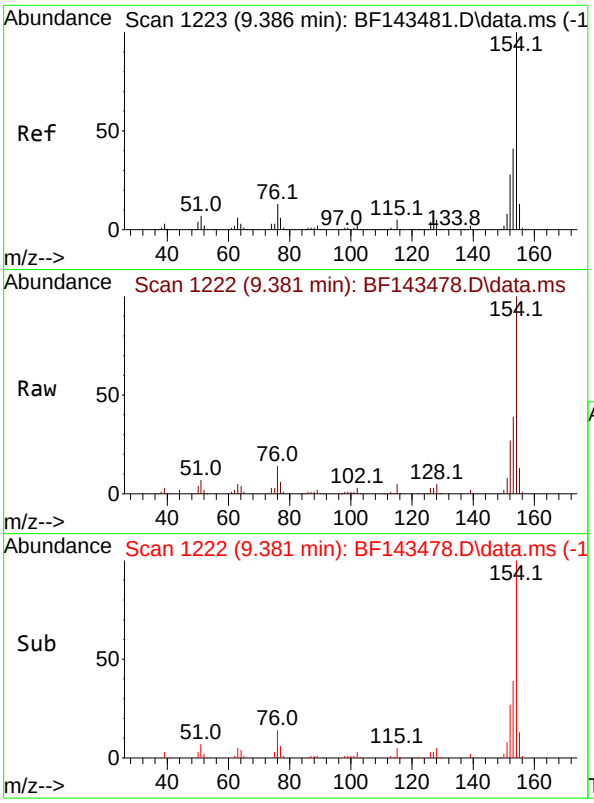


#45
2-Fluorobiphenyl
Concen: 11.943 ng
RT: 9.281 min Scan# 1205
Delta R.T. -0.006 min
Lab File: BF143478.D
Acq: 20 Aug 2025 11:25

Tgt Ion:172 Resp: 213485

Ion	Ratio	Lower	Upper
172	100		
171	35.0	28.8	43.2
170	23.0	18.8	28.2



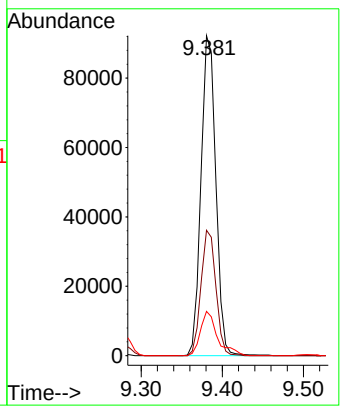


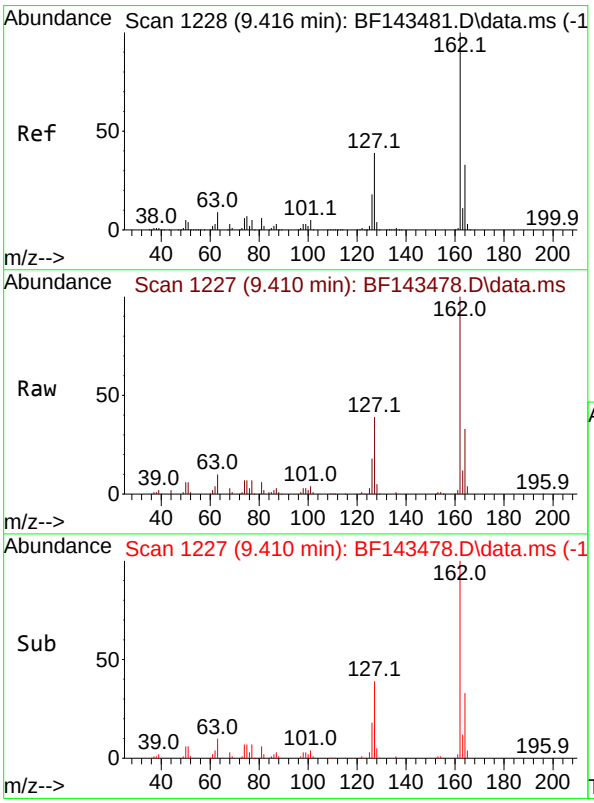
#46
1,1'-Biphenyl
Concen: 5.573 ng
RT: 9.381 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF143478.D
Acq: 20 Aug 2025 11:25

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:154 Resp: 116864

Ion	Ratio	Lower	Upper
154	100		
153	39.2	20.6	60.6
76	13.9	0.0	33.0

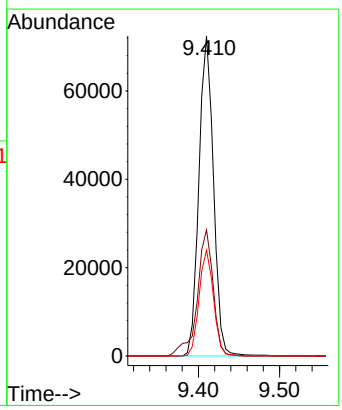


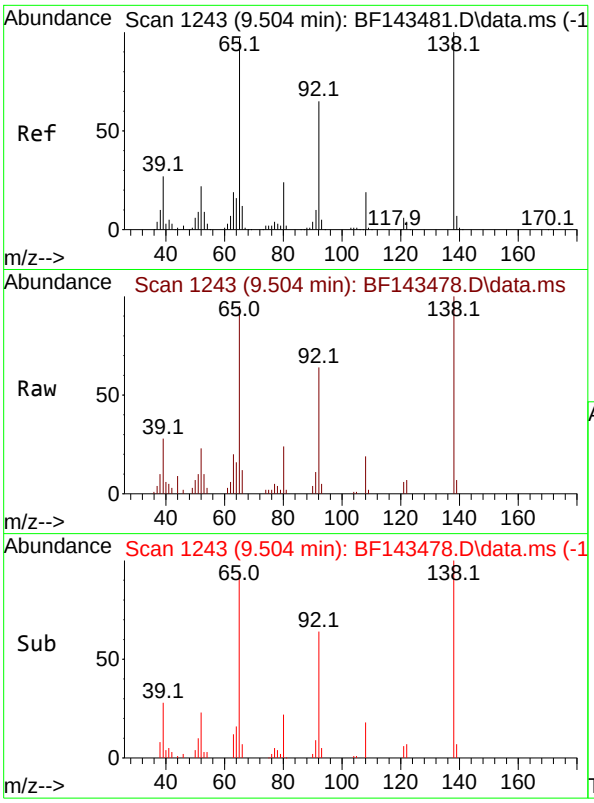


#47
2-Chloronaphthalene
Concen: 5.484 ng
RT: 9.410 min Scan# 1227
Delta R.T. -0.006 min
Lab File: BF143478.D
Acq: 20 Aug 2025 11:25

Tgt Ion:162 Resp: 90223

Ion	Ratio	Lower	Upper
162	100		
127	39.4	31.8	47.6
164	33.0	26.4	39.6



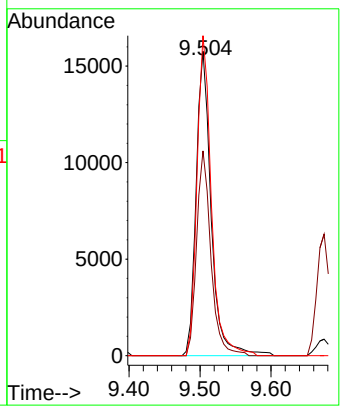


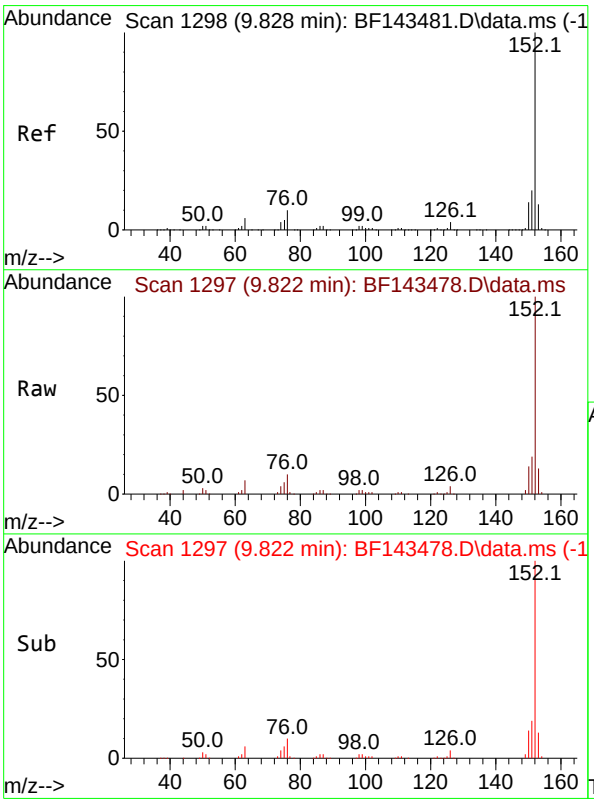
#48
2-Nitroaniline
Concen: 4.820 ng
RT: 9.504 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143478.D
Acq: 20 Aug 2025 11:25

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion: 65 Resp: 23209

Ion	Ratio	Lower	Upper
65	100		
92	67.3	53.8	80.6
138	105.1	82.4	123.6

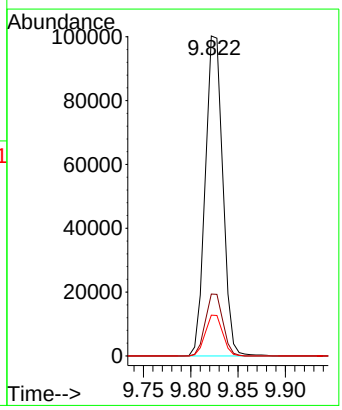


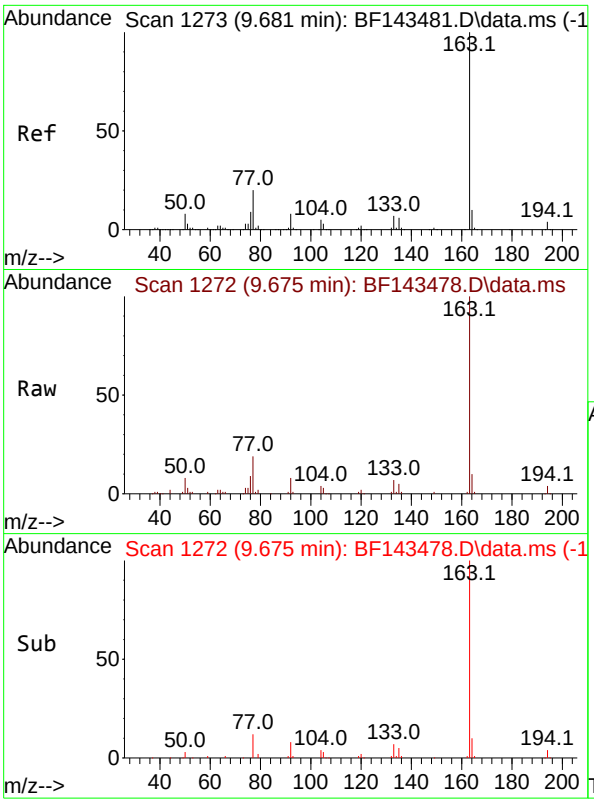


#49
Acenaphthylene
Concen: 5.478 ng
RT: 9.822 min Scan# 1297
Delta R.T. -0.006 min
Lab File: BF143478.D
Acq: 20 Aug 2025 11:25

Tgt Ion:152 Resp: 129052

Ion	Ratio	Lower	Upper
152	100		
151	19.3	16.2	24.4
153	12.8	10.6	15.8



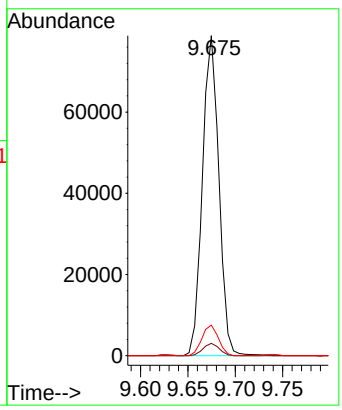


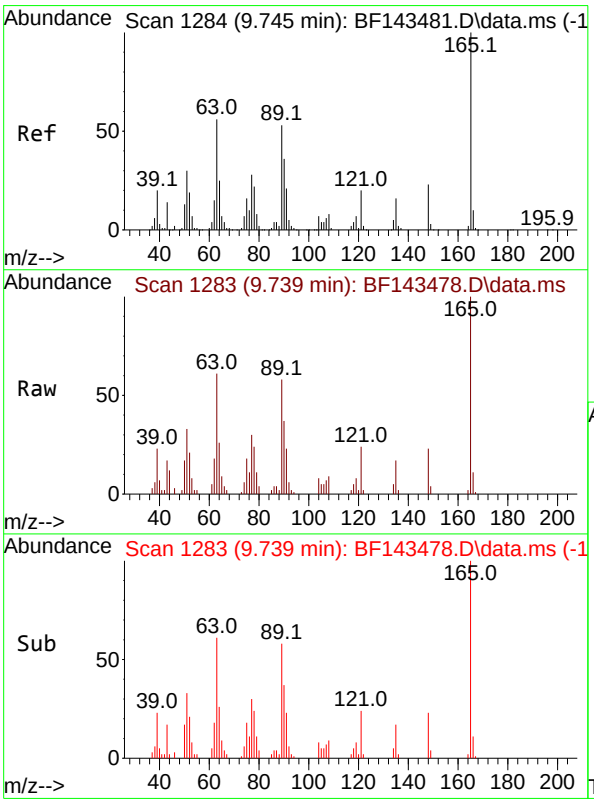
#50
Dimethylphthalate
Concen: 5.366 ng
RT: 9.675 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143478.D
Acq: 20 Aug 2025 11:25

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:163 Resp: 95475

Ion	Ratio	Lower	Upper
163	100		
194	3.8	3.4	5.0
164	9.5	8.2	12.2

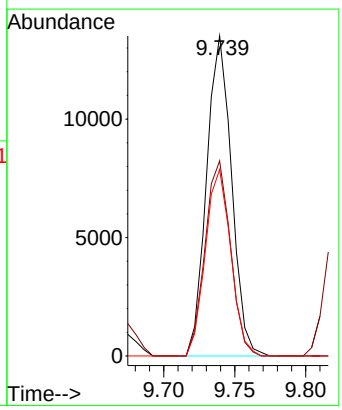


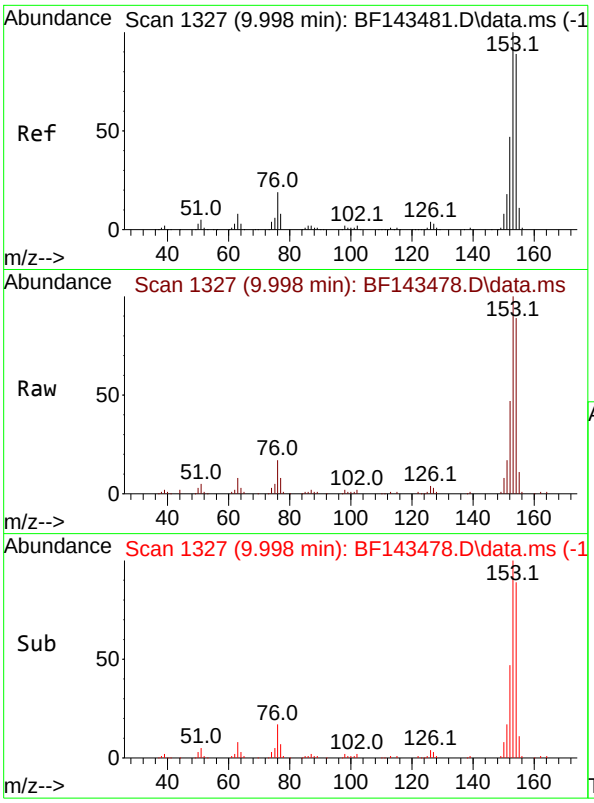


#51
2,6-Dinitrotoluene
Concen: 4.480 ng
RT: 9.739 min Scan# 1283
Delta R.T. -0.012 min
Lab File: BF143478.D
Acq: 20 Aug 2025 11:25

Tgt Ion:165 Resp: 16519

Ion	Ratio	Lower	Upper
165	100		
63	61.0	45.0	67.6
89	58.3	42.5	63.7



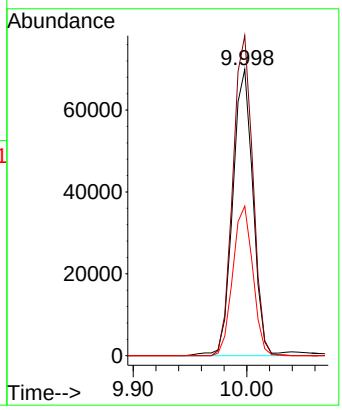


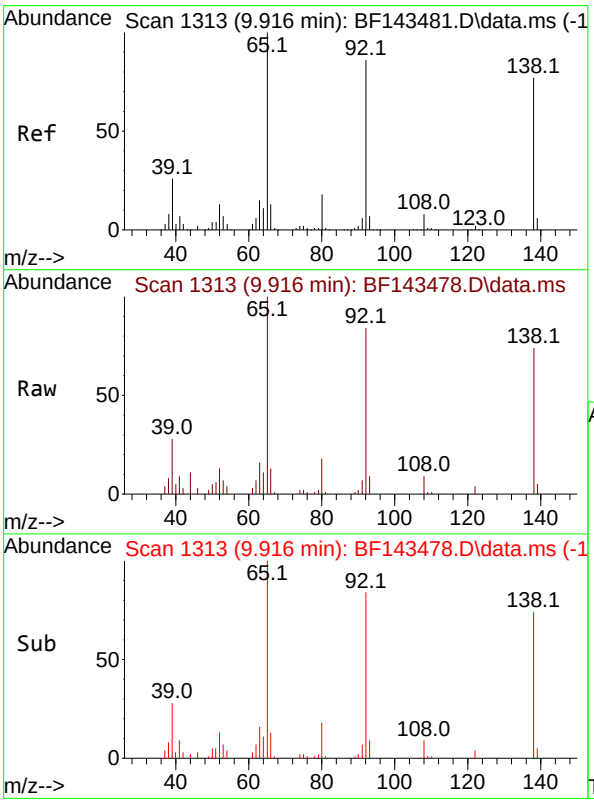
#52
Acenaphthene
Concen: 5.402 ng
RT: 9.998 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143478.D
Acq: 20 Aug 2025 11:25

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:154 Resp: 86399

Ion	Ratio	Lower	Upper
154	100		
153	111.8	89.5	134.3
152	52.3	42.5	63.7

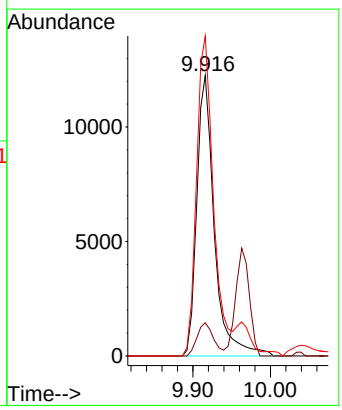


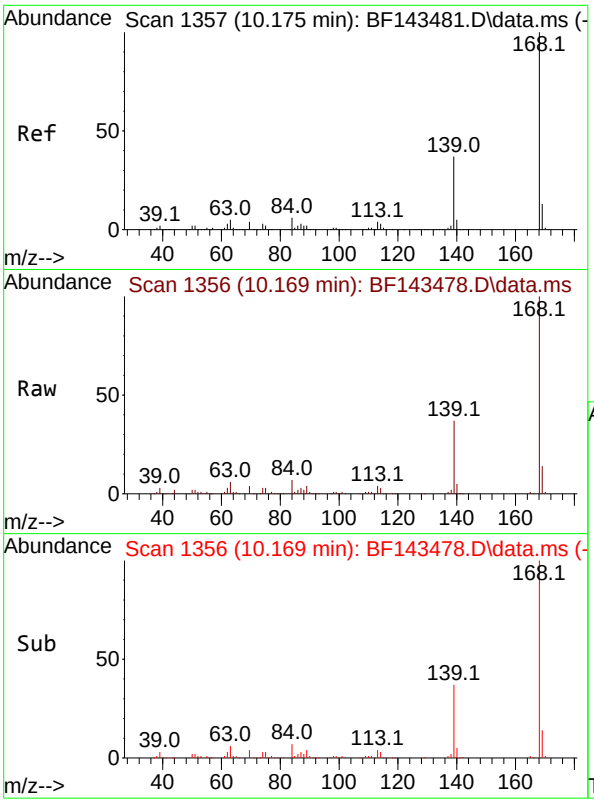


#53
3-Nitroaniline
Concen: 4.817 ng
RT: 9.916 min Scan# 1313
Delta R.T. -0.006 min
Lab File: BF143478.D
Acq: 20 Aug 2025 11:25

Tgt Ion:138 Resp: 19195

Ion	Ratio	Lower	Upper
138	100		
108	11.8	8.6	13.0
92	114.1	89.8	134.8



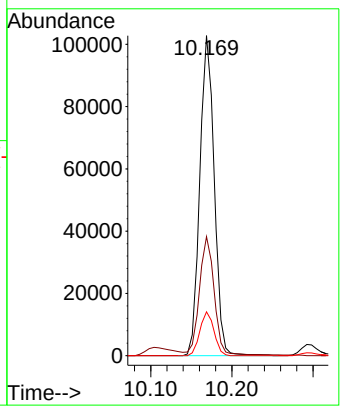


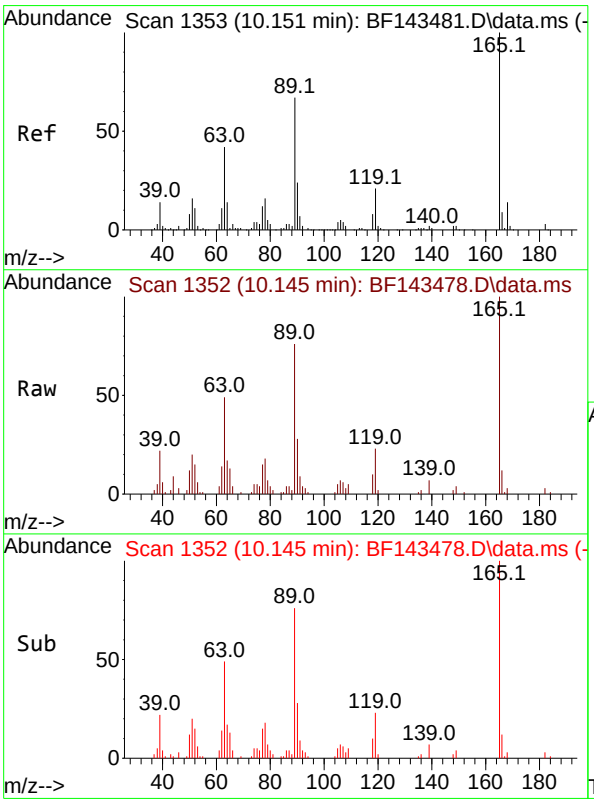
#55
Dibenzofuran
Concen: 5.561 ng
RT: 10.169 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143478.D
Acq: 20 Aug 2025 11:25

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:168 Resp: 126806

Ion	Ratio	Lower	Upper
168	100		
139	37.2	29.8	44.6
169	13.7	10.8	16.2

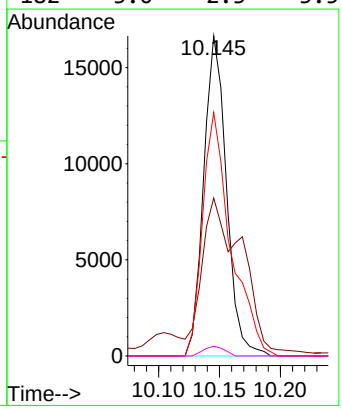


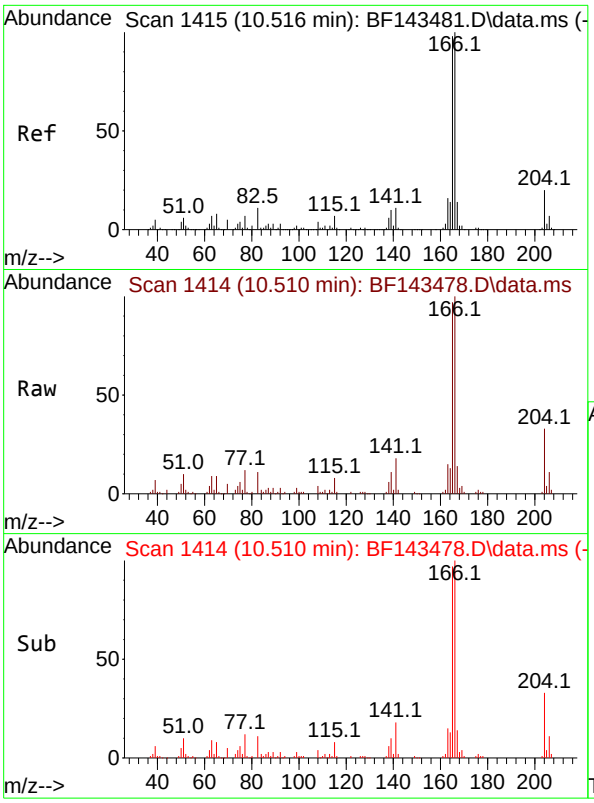


#57
2,4-Dinitrotoluene
Concen: 4.382 ng
RT: 10.145 min Scan# 1352
Delta R.T. -0.012 min
Lab File: BF143478.D
Acq: 20 Aug 2025 11:25

Tgt Ion:165 Resp: 21578

Ion	Ratio	Lower	Upper
165	100		
63	49.3	34.9	52.3
89	76.0	53.3	79.9
182	3.0	2.3	3.5



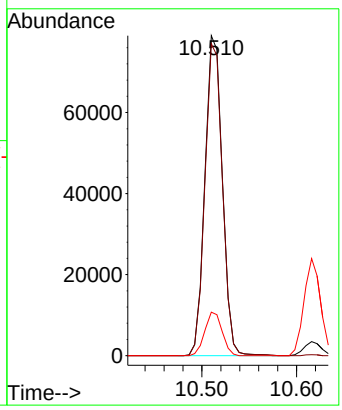


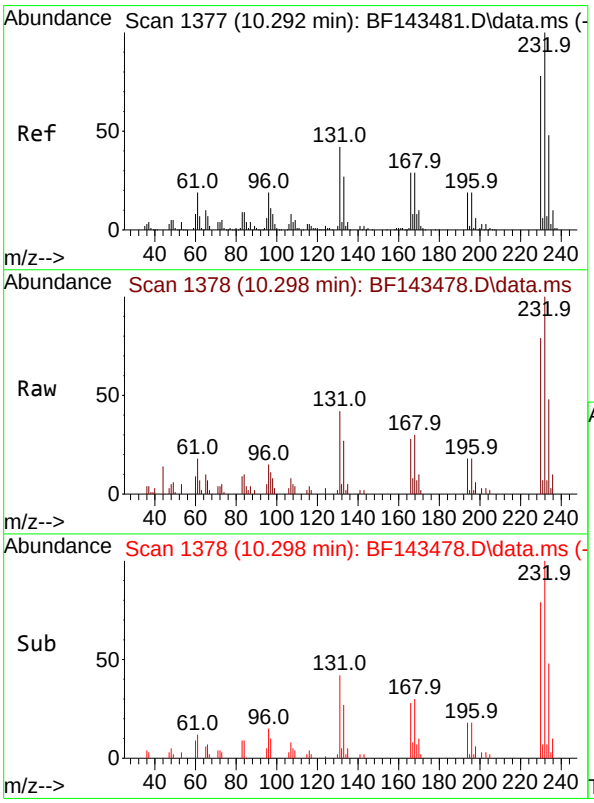
#58
Fluorene
Concen: 5.751 ng
RT: 10.510 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF143478.D
Acq: 20 Aug 2025 11:25

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:166 Resp: 100926

Ion	Ratio	Lower	Upper
166	100		
165	97.5	78.3	117.5
167	13.6	11.0	16.4

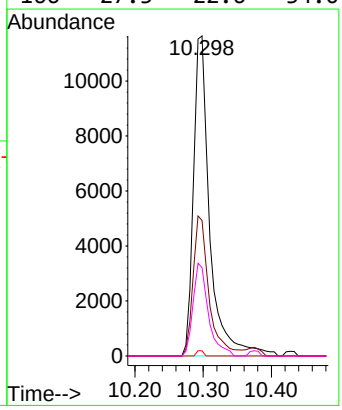


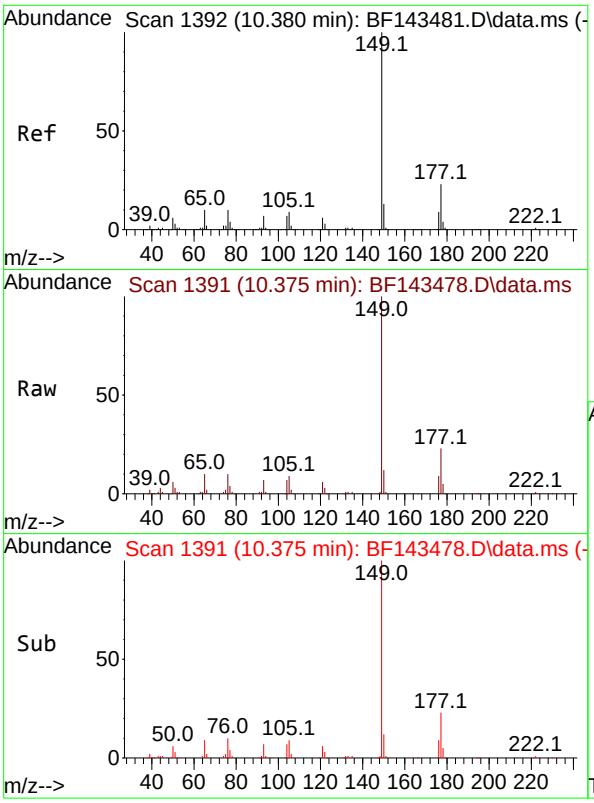


#59
2,3,4,6-Tetrachlorophenol
Concen: 4.576 ng
RT: 10.298 min Scan# 1378
Delta R.T. 0.000 min
Lab File: BF143478.D
Acq: 20 Aug 2025 11:25

Tgt Ion:232 Resp: 19308

Ion	Ratio	Lower	Upper
232	100		
131	43.1	32.7	49.1
130	0.7	1.6	2.4#
166	27.3	22.6	34.0



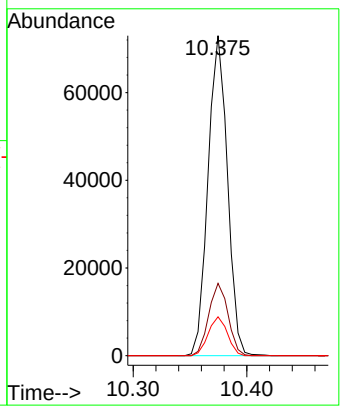


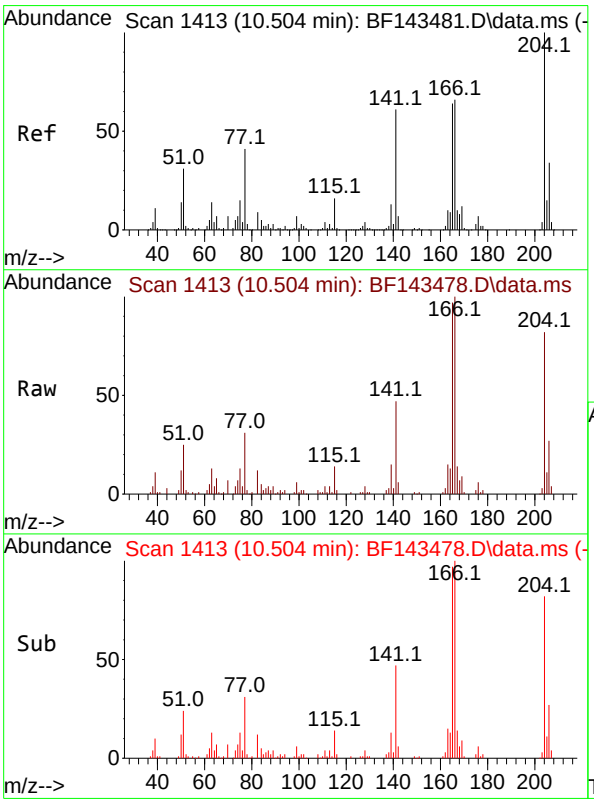
#60
Diethylphthalate
Concen: 5.425 ng
RT: 10.375 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF143478.D
Acq: 20 Aug 2025 11:25

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:149 Resp: 86539

Ion	Ratio	Lower	Upper
149	100		
177	22.6	18.3	27.5
150	12.2	10.3	15.5

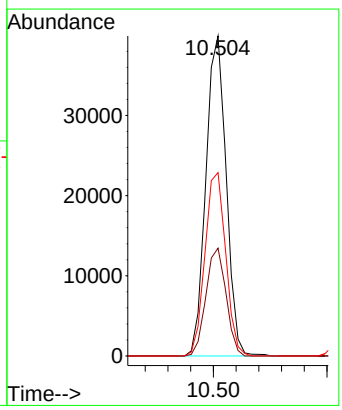


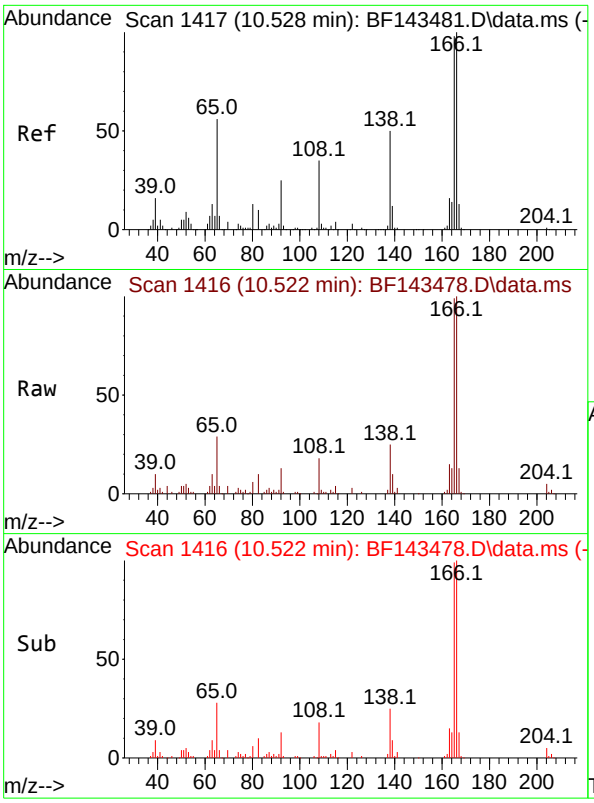


#61
4-Chlorophenyl-phenylether
Concen: 5.647 ng
RT: 10.504 min Scan# 1413
Delta R.T. 0.000 min
Lab File: BF143478.D
Acq: 20 Aug 2025 11:25

Tgt Ion:204 Resp: 49563

Ion	Ratio	Lower	Upper
204	100		
206	33.7	27.0	40.4
141	57.3	48.7	73.1



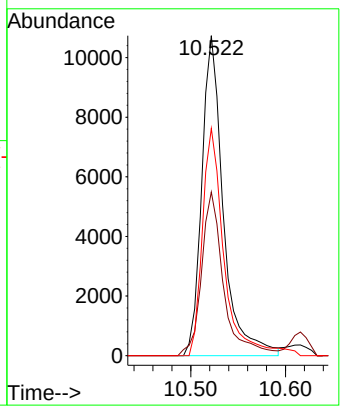


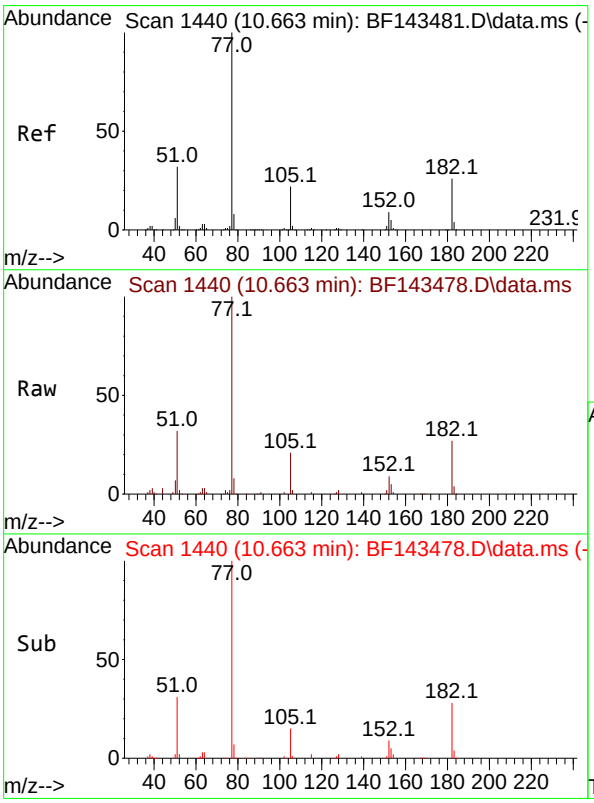
#62
4-Nitroaniline
Concen: 4.645 ng
RT: 10.522 min Scan# 14
Delta R.T. -0.018 min
Lab File: BF143478.D
Acq: 20 Aug 2025 11:25

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:138 Resp: 16999

Ion	Ratio	Lower	Upper
138	100		
92	51.2	29.3	69.3
108	71.0	50.7	90.7

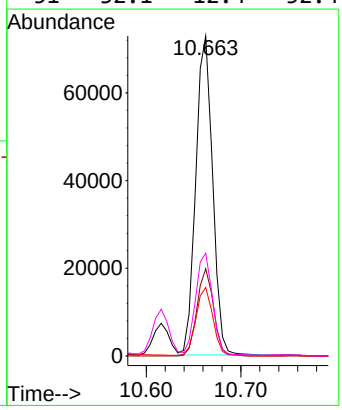


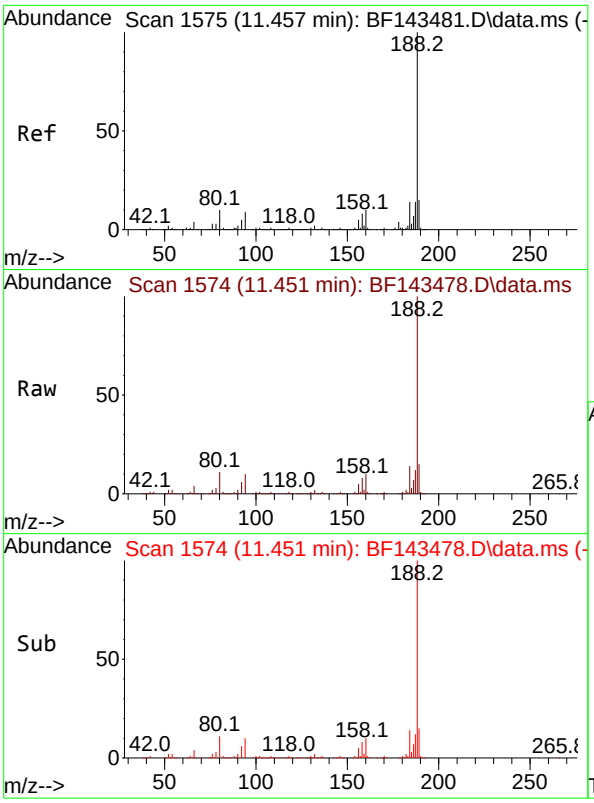


#63
Azobenzene
Concen: 5.452 ng
RT: 10.663 min Scan# 1440
Delta R.T. -0.006 min
Lab File: BF143478.D
Acq: 20 Aug 2025 11:25

Tgt Ion: 77 Resp: 90174

Ion	Ratio	Lower	Upper
77	100		
182	27.3	6.2	46.2
105	21.4	2.2	42.2
51	32.1	12.4	52.4



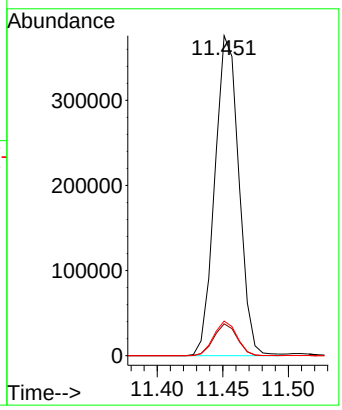


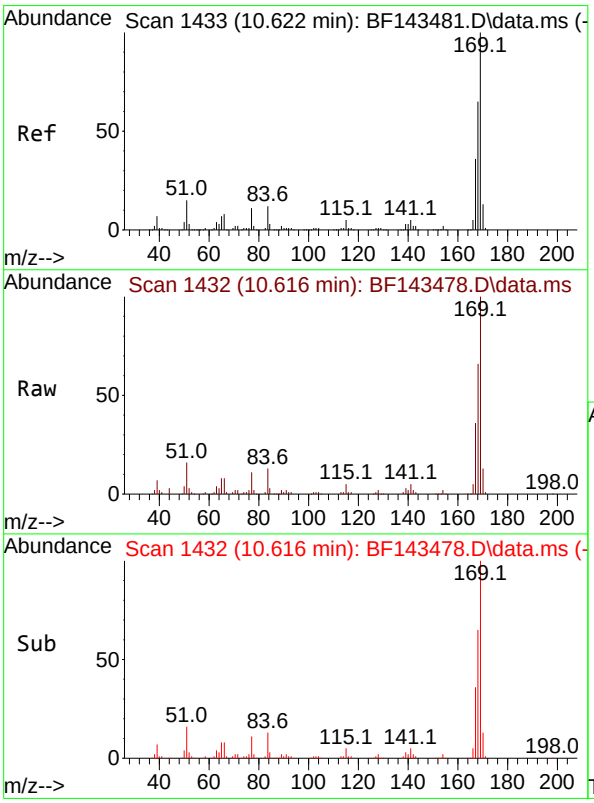
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.451 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143478.D
Acq: 20 Aug 2025 11:25

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:188 Resp: 479059

Ion	Ratio	Lower	Upper
188	100		
94	9.9	7.4	11.2
80	10.8	8.2	12.4

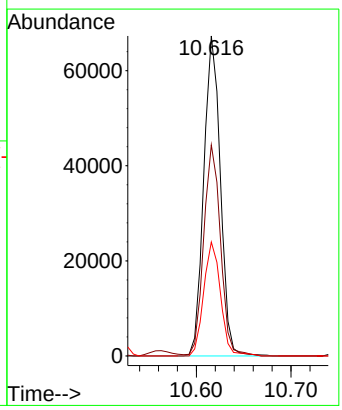


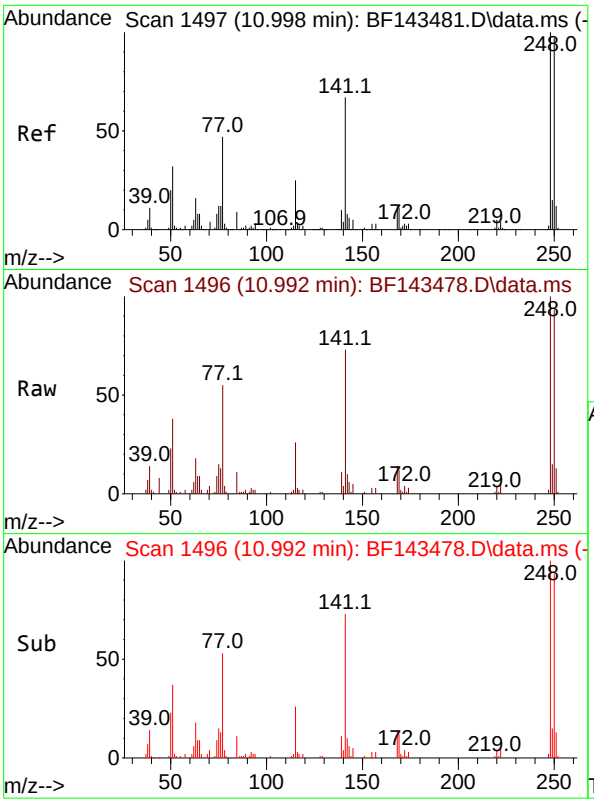


#66
n-Nitrosodiphenylamine
Concen: 5.314 ng
RT: 10.616 min Scan# 1432
Delta R.T. -0.012 min
Lab File: BF143478.D
Acq: 20 Aug 2025 11:25

Tgt Ion:169 Resp: 81920

Ion	Ratio	Lower	Upper
169	100		
168	66.0	52.4	78.6
167	35.6	28.9	43.3



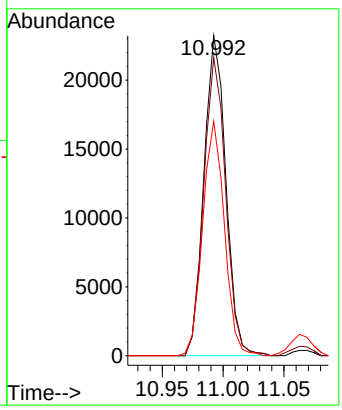


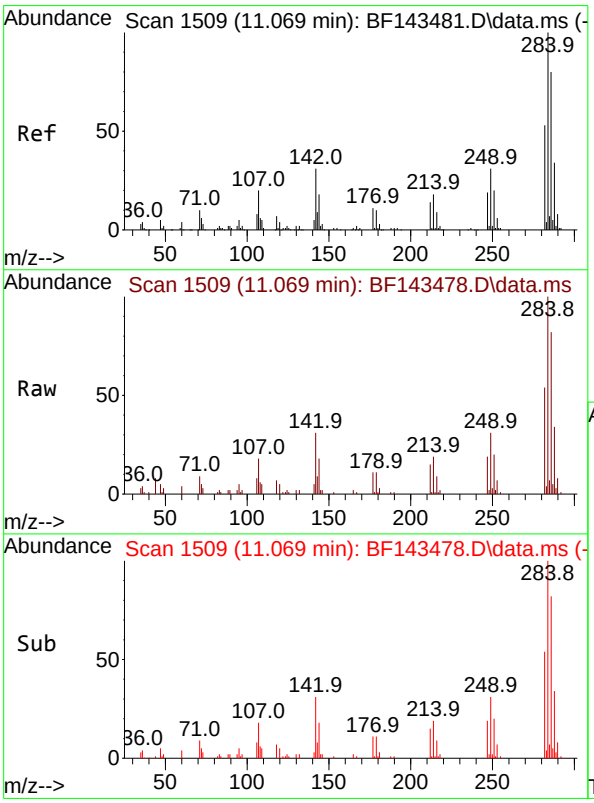
#67
4-Bromophenyl-phenylether
Concen: 5.098 ng
RT: 10.992 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF143478.D
Acq: 20 Aug 2025 11:25

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:248 Resp: 29139

Ion	Ratio	Lower	Upper
248	100		
250	93.1	77.8	116.8
141	73.2	54.0	81.0

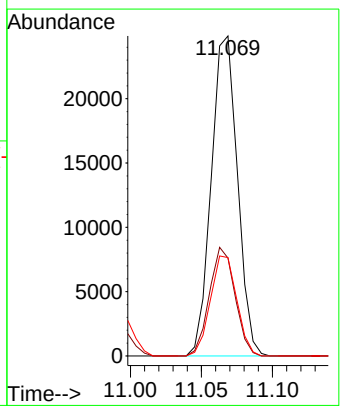


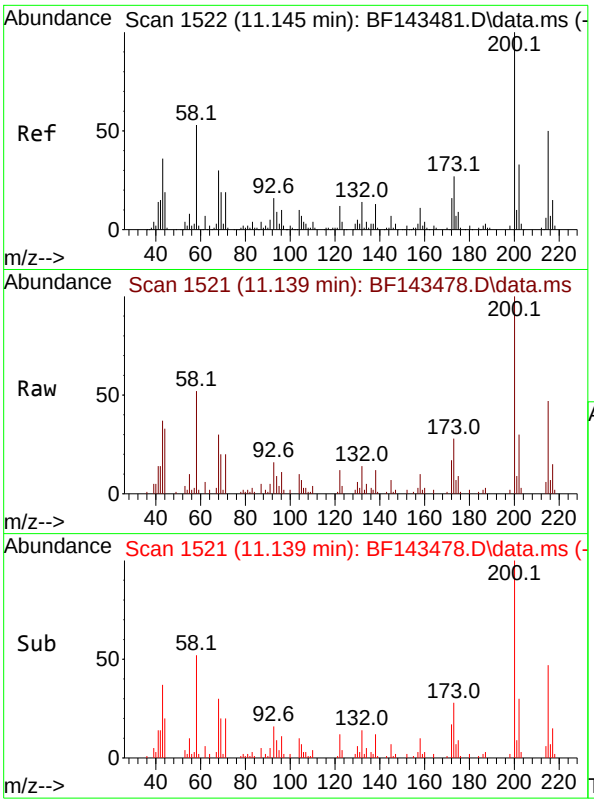


#68
Hexachlorobenzene
Concen: 5.178 ng
RT: 11.069 min Scan# 1509
Delta R.T. -0.006 min
Lab File: BF143478.D
Acq: 20 Aug 2025 11:25

Tgt Ion:284 Resp: 31905

Ion	Ratio	Lower	Upper
284	100		
142	30.6	24.4	36.6
249	30.7	25.0	37.6



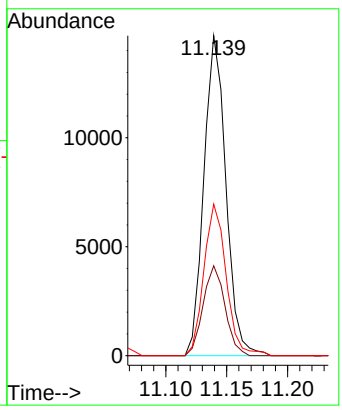


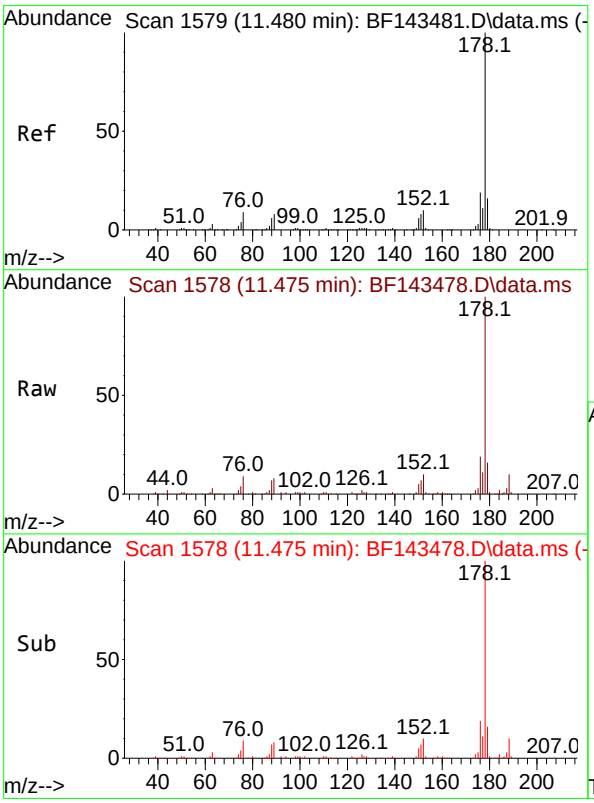
#69
Atrazine
Concen: 4.637 ng
RT: 11.139 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF143478.D
Acq: 20 Aug 2025 11:25

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:200 Resp: 18453

Ion	Ratio	Lower	Upper
200	100		
173	28.1	6.9	46.9
215	47.4	30.0	70.0

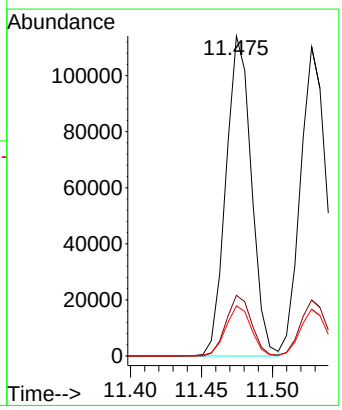


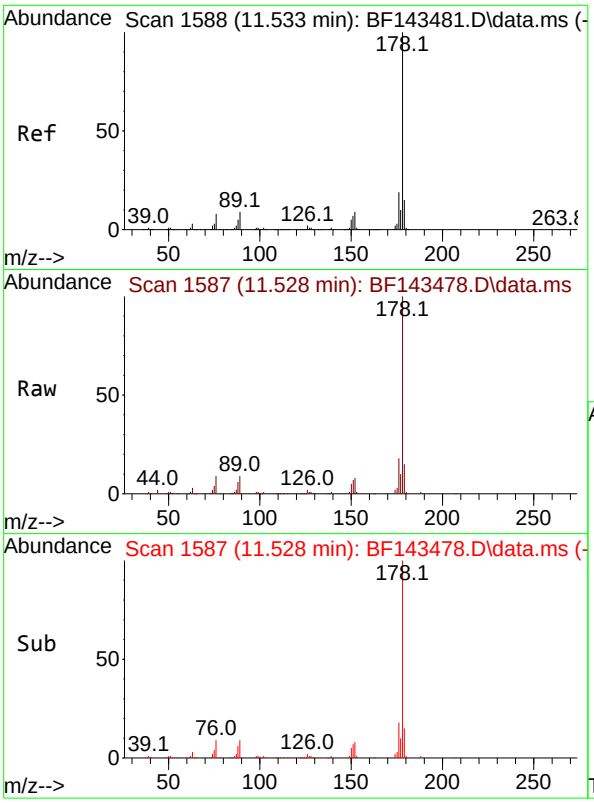


#71
Phenanthrene
Concen: 5.548 ng
RT: 11.475 min Scan# 1578
Delta R.T. -0.006 min
Lab File: BF143478.D
Acq: 20 Aug 2025 11:25

Tgt Ion:178 Resp: 142334

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.5	23.3
179	15.7	12.5	18.7



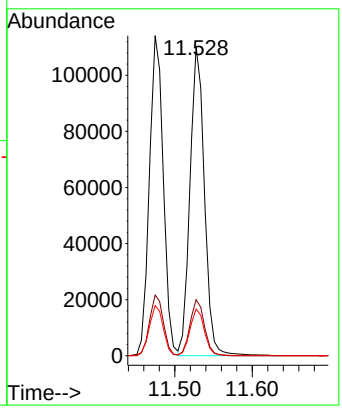


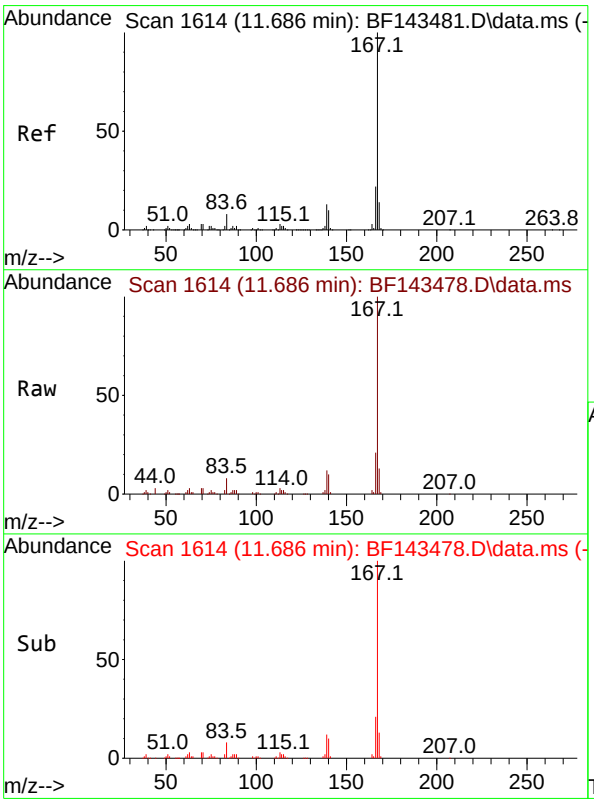
#72
Anthracene
Concen: 5.490 ng
RT: 11.528 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143478.D
Acq: 20 Aug 2025 11:25

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:178 Resp: 142673

Ion	Ratio	Lower	Upper
178	100		
176	18.1	15.0	22.4
179	15.1	12.3	18.5

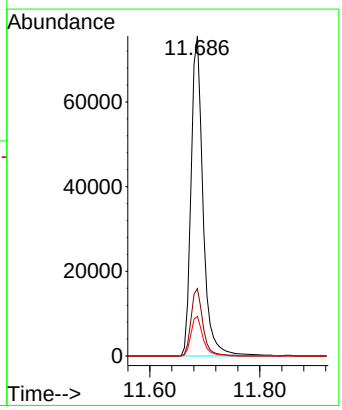


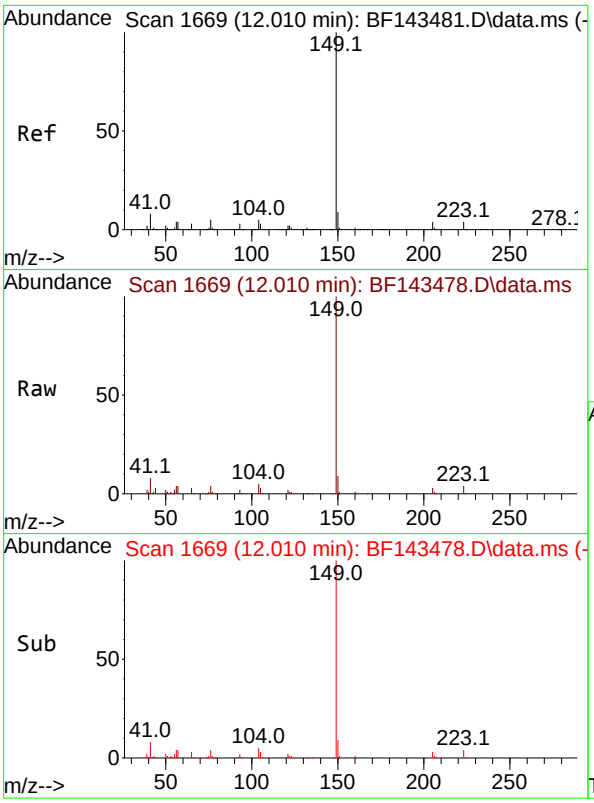


#73
Carbazole
Concen: 5.339 ng
RT: 11.686 min Scan# 1614
Delta R.T. 0.000 min
Lab File: BF143478.D
Acq: 20 Aug 2025 11:25

Tgt Ion:167 Resp: 113696

Ion	Ratio	Lower	Upper
167	100		
166	21.0	17.3	25.9
139	12.3	10.0	15.0



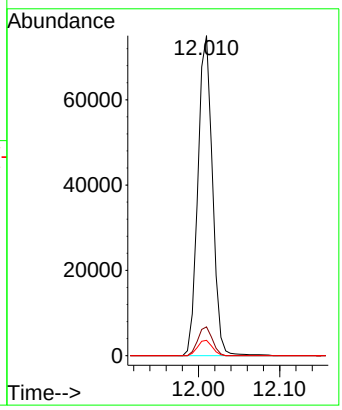


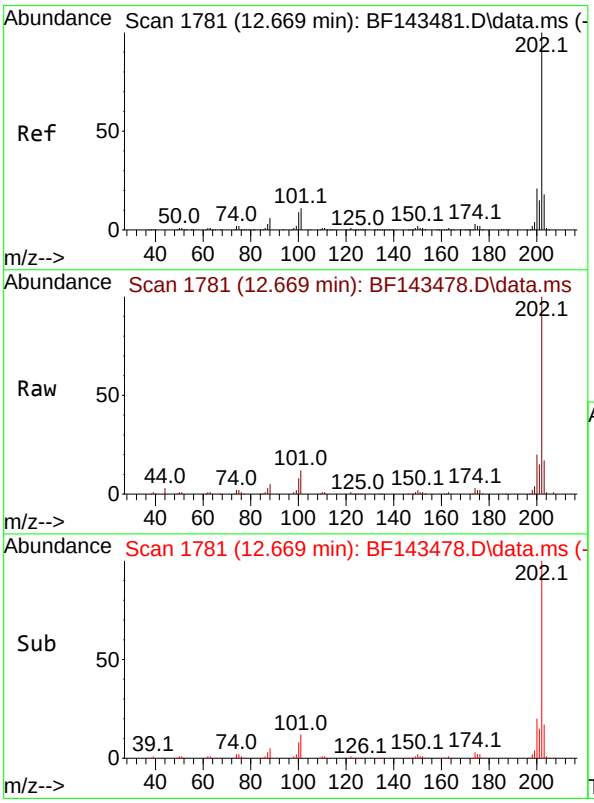
#74
Di-n-butylphthalate
Concen: 4.712 ng
RT: 12.010 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143478.D
Acq: 20 Aug 2025 11:25

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:149 Resp: 93617

Ion	Ratio	Lower	Upper
149	100		
150	9.0	7.2	10.8
104	4.8	3.6	5.4

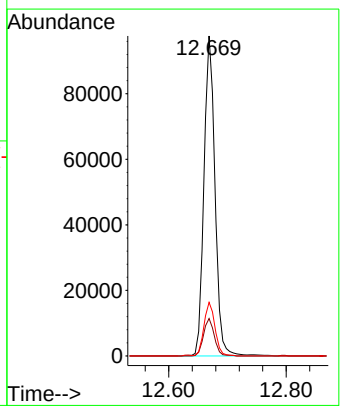


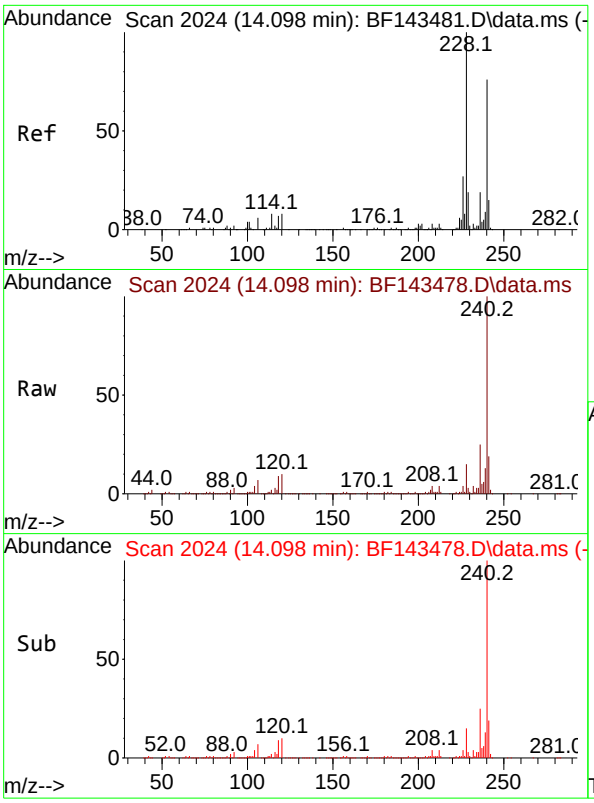


#75
Fluoranthene
Concen: 5.518 ng
RT: 12.669 min Scan# 1781
Delta R.T. -0.006 min
Lab File: BF143478.D
Acq: 20 Aug 2025 11:25

Tgt Ion:202 Resp: 127015

Ion	Ratio	Lower	Upper
202	100		
101	11.7	0.0	31.3
203	16.7	0.0	37.9



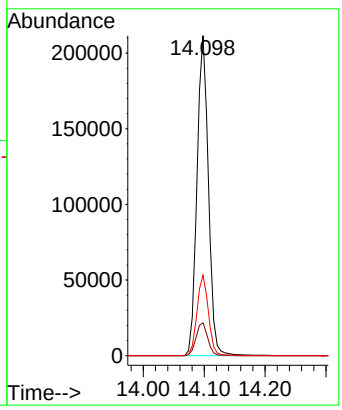


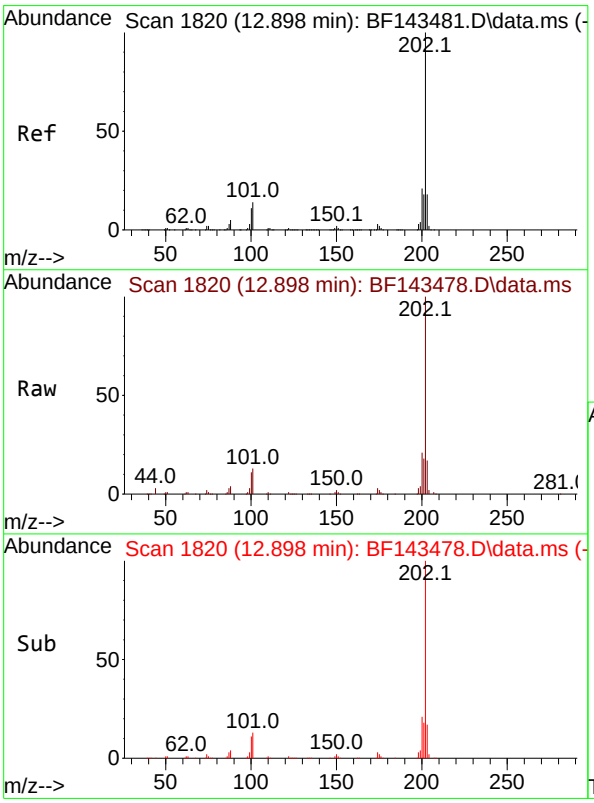
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.098 min Scan# 2(
Delta R.T. -0.006 min
Lab File: BF143478.D
Acq: 20 Aug 2025 11:25

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:240 Resp: 275807

Ion	Ratio	Lower	Upper
240	100		
120	10.3	8.6	12.8
236	25.1	20.4	30.6

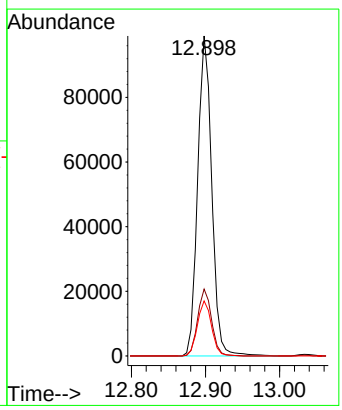


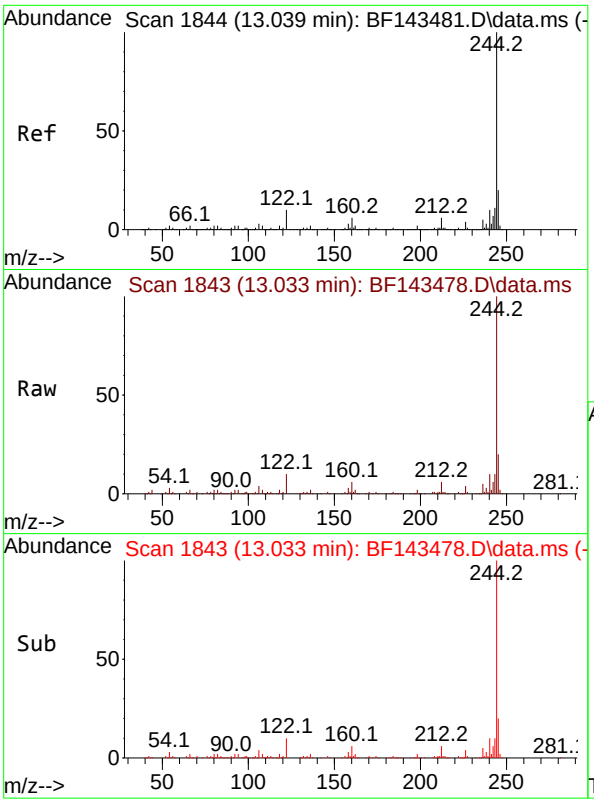


#78
Pyrene
Concen: 5.748 ng
RT: 12.898 min Scan# 1820
Delta R.T. -0.006 min
Lab File: BF143478.D
Acq: 20 Aug 2025 11:25

Tgt Ion:202 Resp: 130407

Ion	Ratio	Lower	Upper
202	100		
200	20.9	17.0	25.4
203	17.2	14.3	21.5



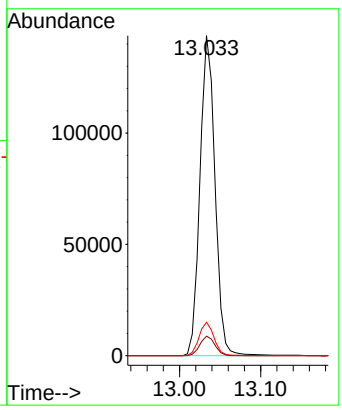


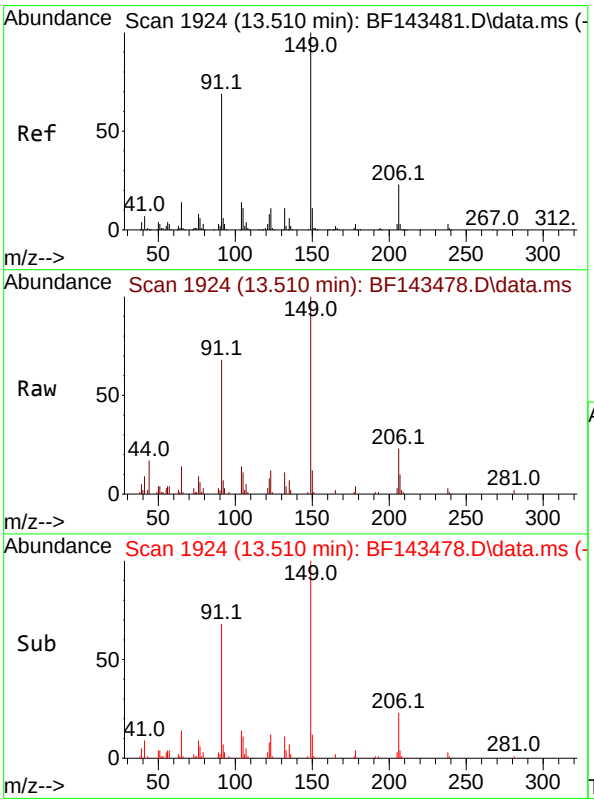
#79
Terphenyl-d14
Concen: 11.698 ng
RT: 13.033 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143478.D
Acq: 20 Aug 2025 11:25

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:244 Resp: 184897

Ion	Ratio	Lower	Upper
244	100		
212	6.1	5.2	7.8
122	10.4	7.9	11.9

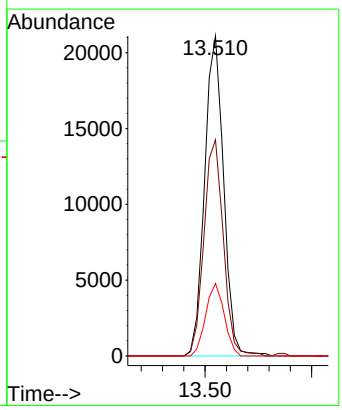


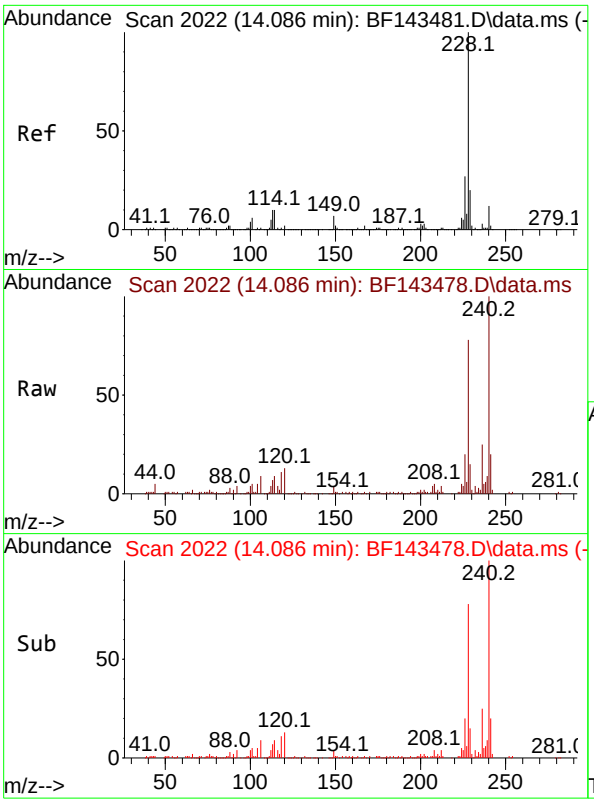


#80
Butylbenzylphthalate
Concen: 4.223 ng
RT: 13.510 min Scan# 1924
Delta R.T. 0.000 min
Lab File: BF143478.D
Acq: 20 Aug 2025 11:25

Tgt Ion:149 Resp: 26173

Ion	Ratio	Lower	Upper
149	100		
91	67.6	55.3	82.9
206	22.6	18.2	27.4



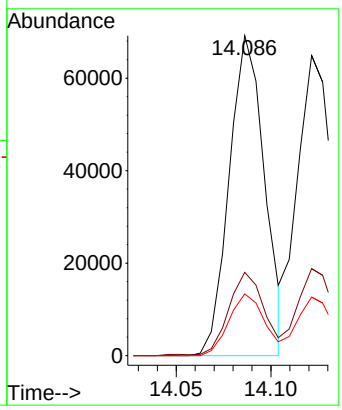


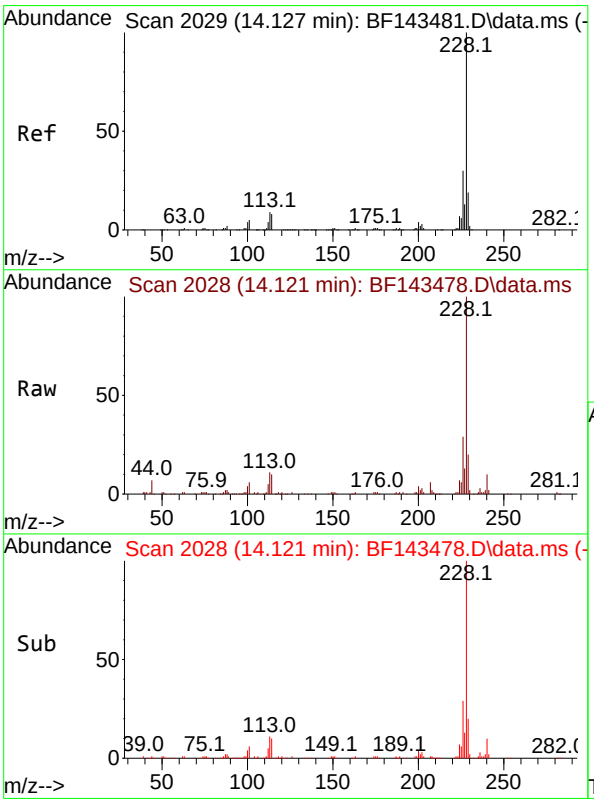
#81
Benzo(a)anthracene
Concen: 5.055 ng
RT: 14.086 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF143478.D
Acq: 20 Aug 2025 11:25

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:228 Resp: 89757

Ion	Ratio	Lower	Upper
228	100		
226	26.1	21.7	32.5
229	19.3	15.7	23.5

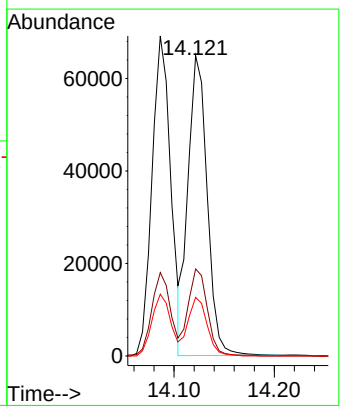


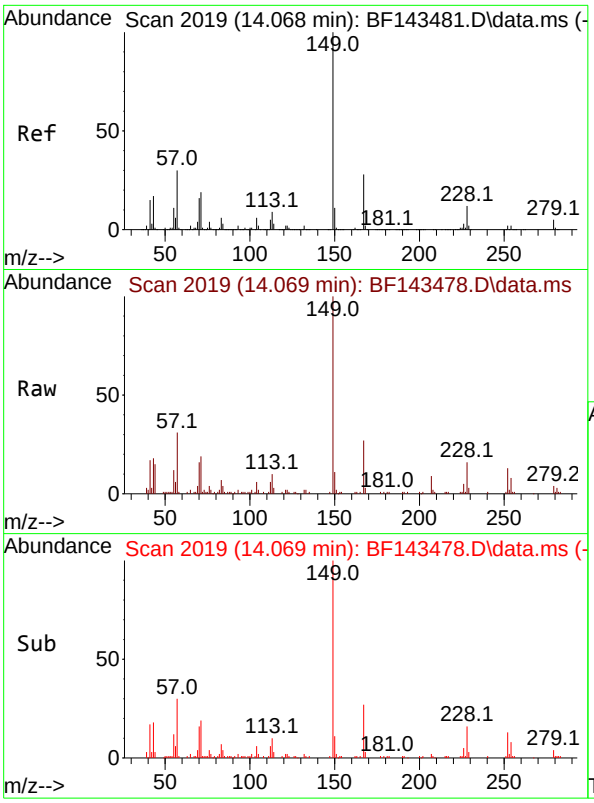


#83
Chrysene
Concen: 5.408 ng
RT: 14.121 min Scan# 2028
Delta R.T. -0.006 min
Lab File: BF143478.D
Acq: 20 Aug 2025 11:25

Tgt Ion:228 Resp: 86291

Ion	Ratio	Lower	Upper
228	100		
226	29.0	23.7	35.5
229	19.5	15.7	23.5



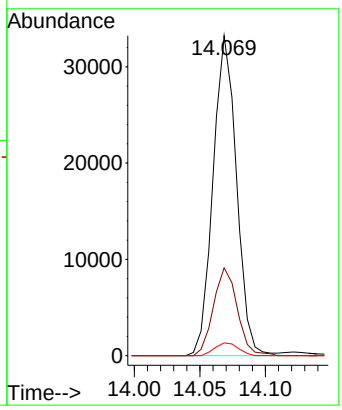


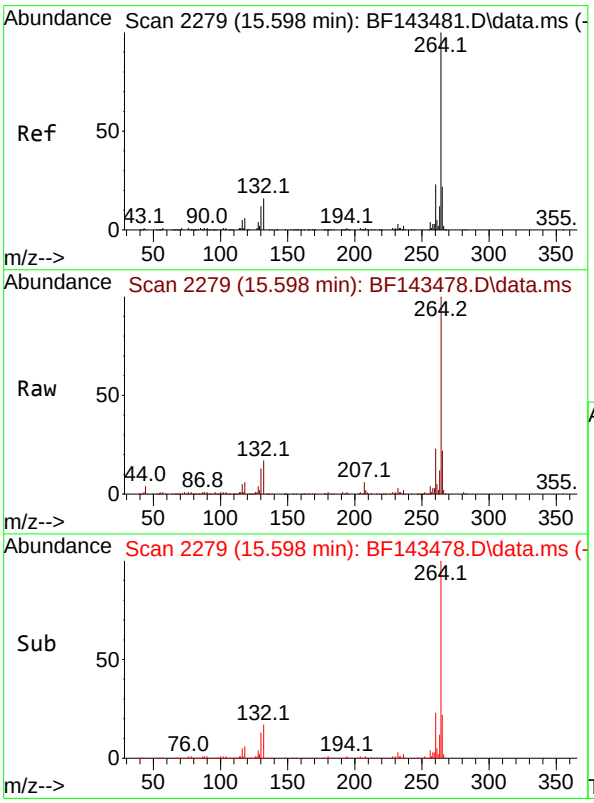
#84
Bis(2-ethylhexyl)phthalate
Concen: 4.380 ng
RT: 14.069 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF143478.D
Acq: 20 Aug 2025 11:25

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:149 Resp: 41348

Ion	Ratio	Lower	Upper
149	100		
167	27.5	22.2	33.2
279	4.0	3.6	5.4

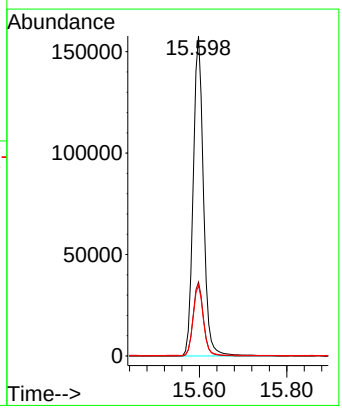


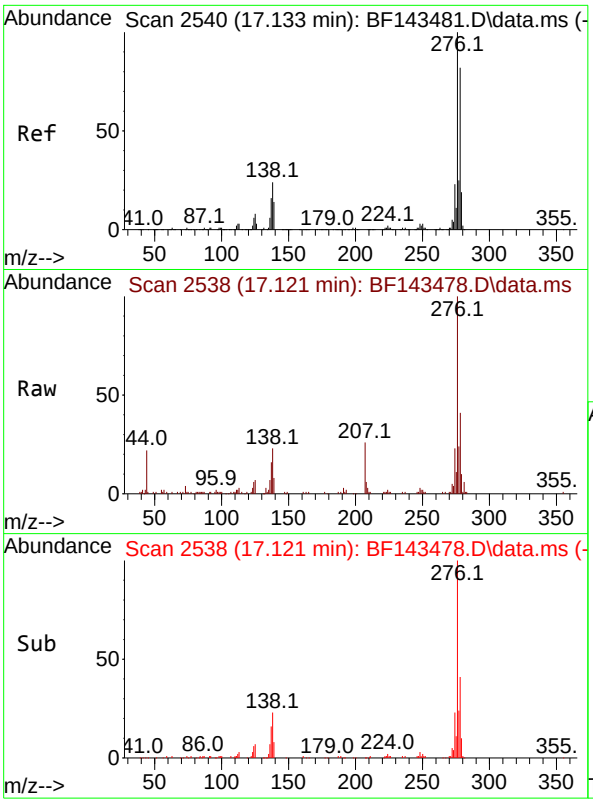


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.598 min Scan# 2279
Delta R.T. 0.000 min
Lab File: BF143478.D
Acq: 20 Aug 2025 11:25

Tgt Ion:264 Resp: 257255

Ion	Ratio	Lower	Upper
264	100		
260	23.1	18.7	28.1
265	22.0	17.6	26.4



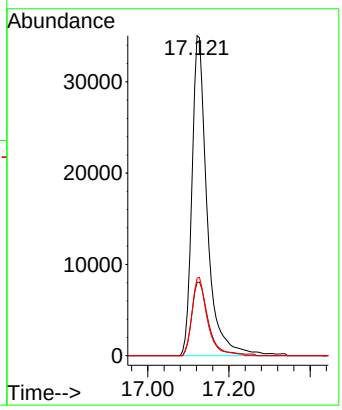


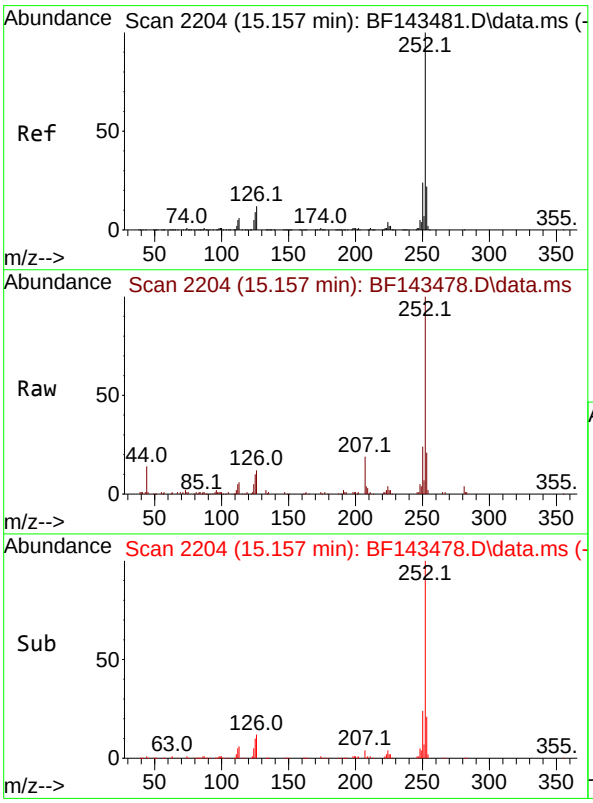
#87
Indeno(1,2,3-cd)pyrene
Concen: 4.958 ng
RT: 17.121 min Scan# 2
Delta R.T. -0.018 min
Lab File: BF143478.D
Acq: 20 Aug 2025 11:25

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:276 Resp: 91654

Ion	Ratio	Lower	Upper
276	100		
138	24.9	19.2	28.8
277	24.6	20.3	30.5

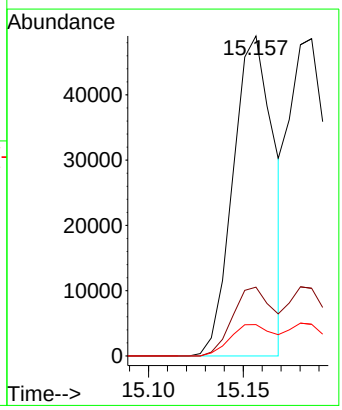


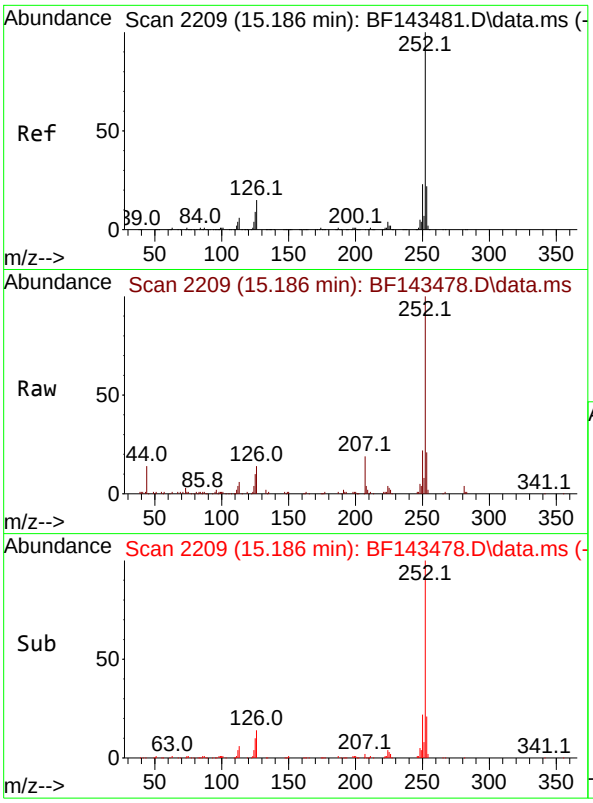


#88
Benzo(b)fluoranthene
Concen: 5.104 ng
RT: 15.157 min Scan# 2204
Delta R.T. 0.000 min
Lab File: BF143478.D
Acq: 20 Aug 2025 11:25

Tgt Ion:252 Resp: 72988

Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.5	26.3
125	9.8	7.4	11.0



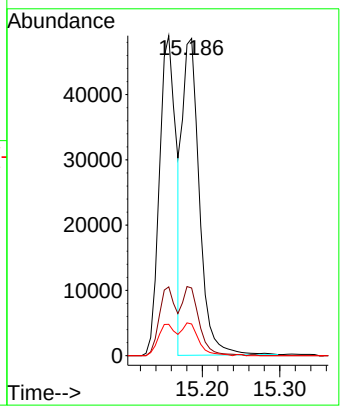


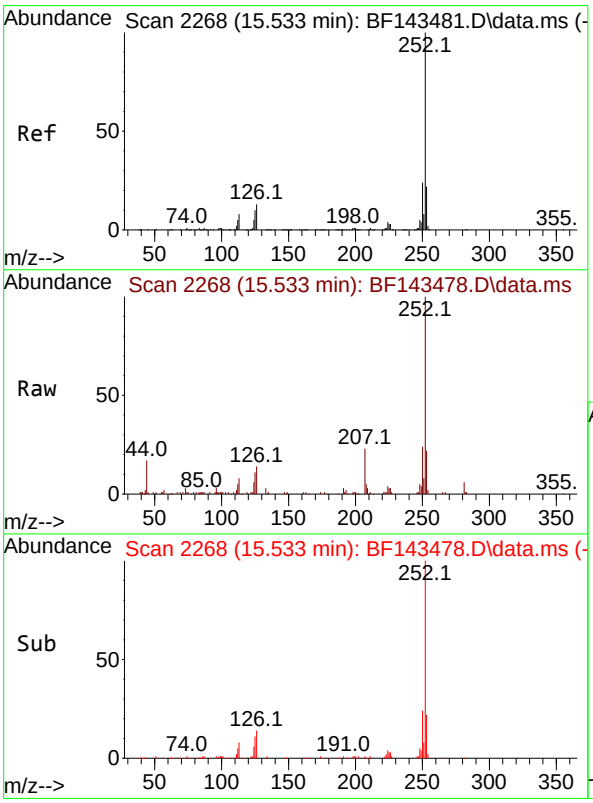
#89
Benzo(k)fluoranthene
Concen: 5.437 ng
RT: 15.186 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF143478.D
Acq: 20 Aug 2025 11:25

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:252 Resp: 74440

Ion	Ratio	Lower	Upper
252	100		
253	21.4	17.4	26.2
125	10.0	7.4	11.0

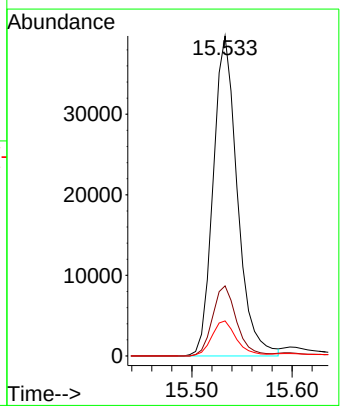


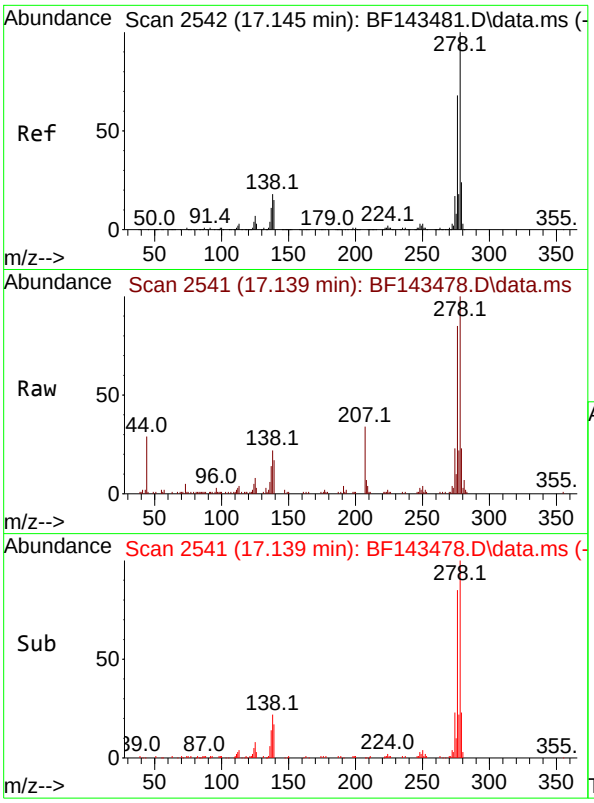


#90
Benzo(a)pyrene
Concen: 5.004 ng
RT: 15.533 min Scan# 2268
Delta R.T. -0.006 min
Lab File: BF143478.D
Acq: 20 Aug 2025 11:25

Tgt Ion:252 Resp: 66416

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.4	26.0
125	10.9	8.2	12.2



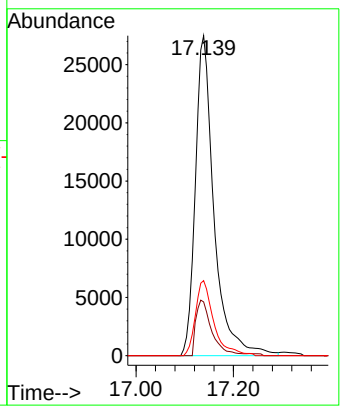


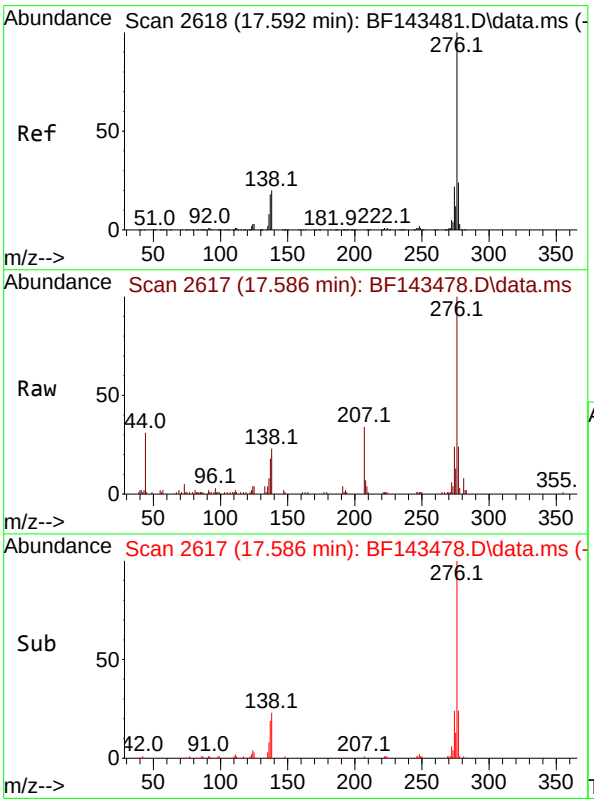
#91
Dibenzo(a,h)anthracene
Concen: 4.946 ng
RT: 17.139 min Scan# 2
Delta R.T. -0.018 min
Lab File: BF143478.D
Acq: 20 Aug 2025 11:25

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:278 Resp: 73229

Ion	Ratio	Lower	Upper
278	100		
139	16.8	12.1	18.1
279	23.4	19.2	28.8

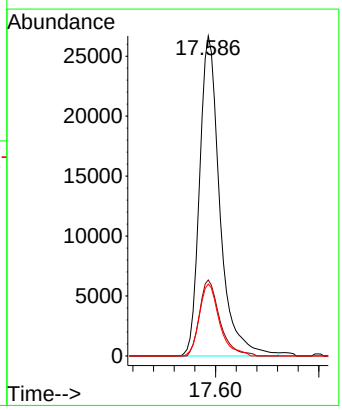




#92
Benzo(g,h,i)perylene
Concen: 4.928 ng
RT: 17.586 min Scan# 2617
Delta R.T. -0.018 min
Lab File: BF143478.D
Acq: 20 Aug 2025 11:25

Tgt Ion:276 Resp: 72556

Ion	Ratio	Lower	Upper
276	100		
277	23.8	18.9	28.3
138	22.5	16.3	24.5



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082025\
Data File : BF143479.D
Acq On : 20 Aug 2025 11:54
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Quant Time: Aug 20 16:20:21 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 20 15:07:46 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.928	152	138225	20.000	ng		0.00
21) Naphthalene-d8	8.210	136	525191	20.000	ng		0.00
39) Acenaphthene-d10	9.963	164	291754	20.000	ng		0.00
64) Phenanthrene-d10	11.451	188	461672	20.000	ng		0.00
76) Chrysene-d12	14.098	240	274933	20.000	ng		0.00
86) Perylene-d12	15.598	264	265385	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.563	112	165533	20.911	ng		0.00
7) Phenol-d6	6.557	99	201752	20.646	ng		-0.02
23) Nitrobenzene-d5	7.481	82	181268	20.141	ng		-0.02
42) 2,4,6-Tribromophenol	10.751	330	54980	20.244	ng		-0.01
45) 2-Fluorobiphenyl	9.280	172	389874	22.085	ng		0.00
79) Terphenyl-d14	13.033	244	344924	21.893	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.746	88	36526	9.961	ng		99
3) Pyridine	3.540	79	96225	9.852	ng		99
4) n-Nitrosodimethylamine	3.451	42	41741	9.507	ng	#	97
6) Aniline	6.587	93	136107	10.420	ng		98
8) 2-Chlorophenol	6.716	128	88766	10.152	ng		98
9) Benzaldehyde	6.475	77	69636	8.802	ng		99
10) Phenol	6.569	94	117160	10.408	ng		82
11) bis(2-Chloroethyl)ether	6.651	93	84985	10.102	ng		97
12) 1,3-Dichlorobenzene	6.869	146	100273	10.207	ng		100
13) 1,4-Dichlorobenzene	6.945	146	102802	10.432	ng		97
14) 1,2-Dichlorobenzene	7.098	146	97628	10.464	ng		99
15) Benzyl Alcohol	7.063	79	71642	9.792	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.192	45	145437	10.806	ng		99
17) 2-Methylphenol	7.181	107	71996	10.260	ng		95
18) Hexachloroethane	7.439	117	34428	10.276	ng		98
19) n-Nitroso-di-n-propyla...	7.328	70	63026	10.552	ng		98
20) 3+4-Methylphenols	7.334	107	92430	11.034	ng		99
22) Acetophenone	7.328	105	121914	10.745	ng		97
24) Nitrobenzene	7.504	77	92261	9.960	ng		99
25) Isophorone	7.739	82	165391	10.025	ng		99
26) 2-Nitrophenol	7.822	139	43444	9.575	ng		98
27) 2,4-Dimethylphenol	7.857	122	71477	10.105	ng		99
28) bis(2-Chloroethoxy)met...	7.951	93	104720	10.329	ng		98
29) 2,4-Dichlorophenol	8.069	162	78518	10.394	ng		99
30) 1,2,4-Trichlorobenzene	8.151	180	78780	10.143	ng		100
31) Naphthalene	8.228	128	264837	10.503	ng		100
32) Benzoic acid	7.957	122	22608	10.817	ng		96
33) 4-Chloroaniline	8.281	127	90644	10.129	ng		98
34) Hexachlorobutadiene	8.351	225	52299	10.321	ng		99
35) Caprolactam	8.616	113	16494	9.099	ng		98
36) 4-Chloro-3-methylphenol	8.757	107	76657	10.126	ng		99
37) 2-Methylnaphthalene	8.922	142	179574	10.663	ng		99
38) 1-Methylnaphthalene	9.022	142	170845	10.606	ng		99
40) 1,2,4,5-Tetrachloroben...	9.092	216	85181	10.207	ng		99
41) Hexachlorocyclopentadiene	9.080	237	14243	10.484	ng		99
43) 2,4,6-Trichlorophenol	9.204	196	50602	9.854	ng		98

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082025\
Data File : BF143479.D
Acq On : 20 Aug 2025 11:54
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Quant Time: Aug 20 16:20:21 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 20 15:07:46 2025
Response via : Initial Calibration

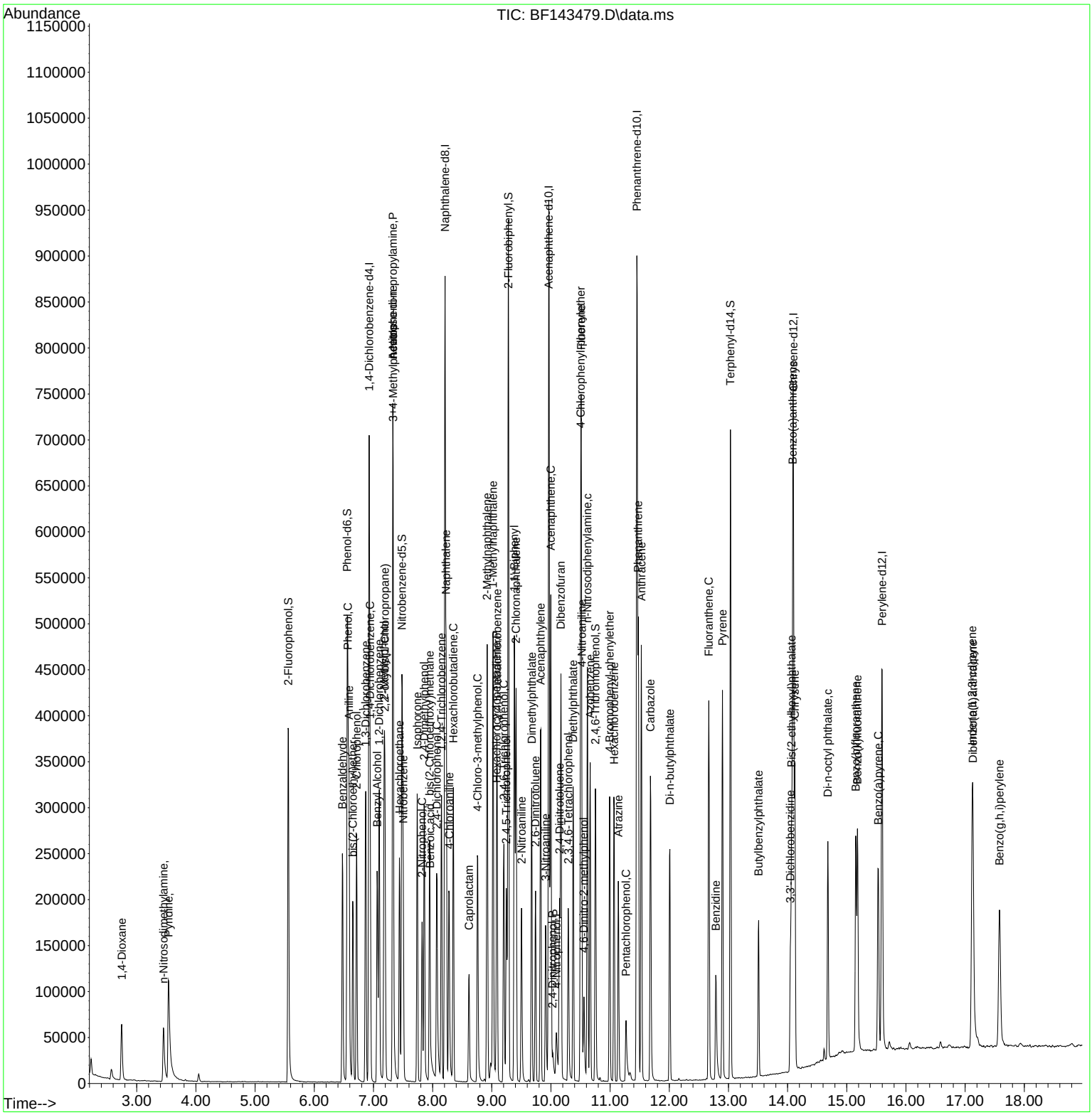
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.245	196	54832	9.775	ng		97
46) 1,1'-Biphenyl	9.380	154	219538	10.602	ng		98
47) 2-Chloronaphthalene	9.410	162	169967	10.461	ng		99
48) 2-Nitroaniline	9.504	65	45630	9.596	ng		97
49) Acenaphthylene	9.827	152	242638	10.429	ng		99
50) Dimethylphthalate	9.675	163	177820	10.120	ng		99
51) 2,6-Dinitrotoluene	9.739	165	34570	9.493	ng		98
52) Acenaphthene	9.998	154	164918	10.441	ng		100
53) 3-Nitroaniline	9.910	138	37475	9.523	ng		97
54) 2,4-Dinitrophenol	10.027	184	10431	10.295	ng		87
55) Dibenzofuran	10.169	168	237099	10.528	ng		99
56) 4-Nitrophenol	10.092	139	16733	7.146	ng		98
57) 2,4-Dinitrotoluene	10.145	165	46361	9.534	ng		96
58) Fluorene	10.510	166	187535	10.820	ng		98
59) 2,3,4,6-Tetrachlorophenol	10.292	232	38561	9.253	ng	#	98
60) Diethylphthalate	10.375	149	160006	10.156	ng		99
61) 4-Chlorophenyl-phenyle...	10.504	204	90965	10.494	ng		97
62) 4-Nitroaniline	10.522	138	34518	9.550	ng		98
63) Azobenzene	10.663	77	168373	10.307	ng		99
65) 4,6-Dinitro-2-methylph...	10.557	198	19659	7.552	ng		95
66) n-Nitrosodiphenylamine	10.616	169	152607	10.271	ng		98
67) 4-Bromophenyl-phenylether	10.992	248	55324	10.043	ng		98
68) Hexachlorobenzene	11.069	284	60577	10.202	ng		98
69) Atrazine	11.139	200	36074	9.406	ng		98
70) Pentachlorophenol	11.269	266	20373	7.492	ng		98
71) Phenanthrene	11.474	178	259254	10.486	ng		99
72) Anthracene	11.527	178	263998	10.541	ng		99
73) Carbazole	11.680	167	213439	10.400	ng		99
74) Di-n-butylphthalate	12.010	149	184596	9.642	ng		99
75) Fluoranthene	12.668	202	235543	10.618	ng		99
77) Benzidine	12.786	184	84040	12.549	ng		99
78) Pyrene	12.898	202	243049	10.747	ng		98
80) Butylbenzylphthalate	13.510	149	55227	8.939	ng		97
81) Benzo(a)anthracene	14.086	228	175192	9.898	ng		99
82) 3,3'-Dichlorobenzidine	14.045	252	48491	9.566	ng		97
83) Chrysene	14.121	228	164205	10.323	ng		99
84) Bis(2-ethylhexyl)phtha...	14.068	149	86065	9.146	ng		99
85) Di-n-octyl phthalate	14.680	149	155239	8.906	ng		100
87) Indeno(1,2,3-cd)pyrene	17.121	276	190133	9.970	ng		99
88) Benzo(b)fluoranthene	15.151	252	152145	10.314	ng		99
89) Benzo(k)fluoranthene	15.180	252	134513	9.524	ng		99
90) Benzo(a)pyrene	15.533	252	135536	9.898	ng		100
91) Dibenzo(a,h)anthracene	17.133	278	154454	10.113	ng		99
92) Benzo(g,h,i)perylene	17.580	276	149813	9.865	ng		99

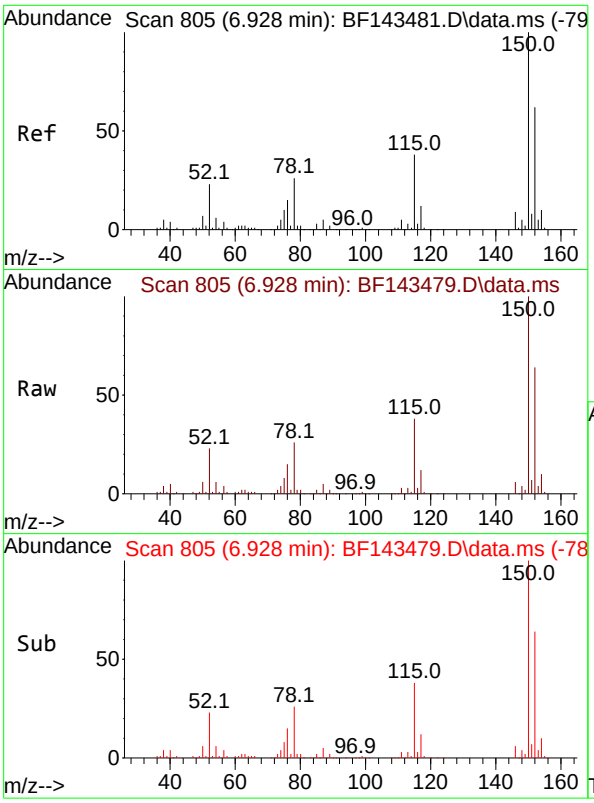
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082025\
Data File : BF143479.D
Acq On : 20 Aug 2025 11:54
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Quant Time: Aug 20 16:20:21 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 20 15:07:46 2025
Response via : Initial Calibration



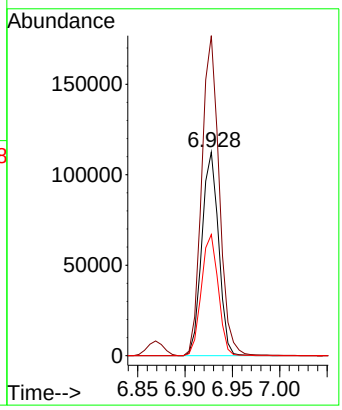


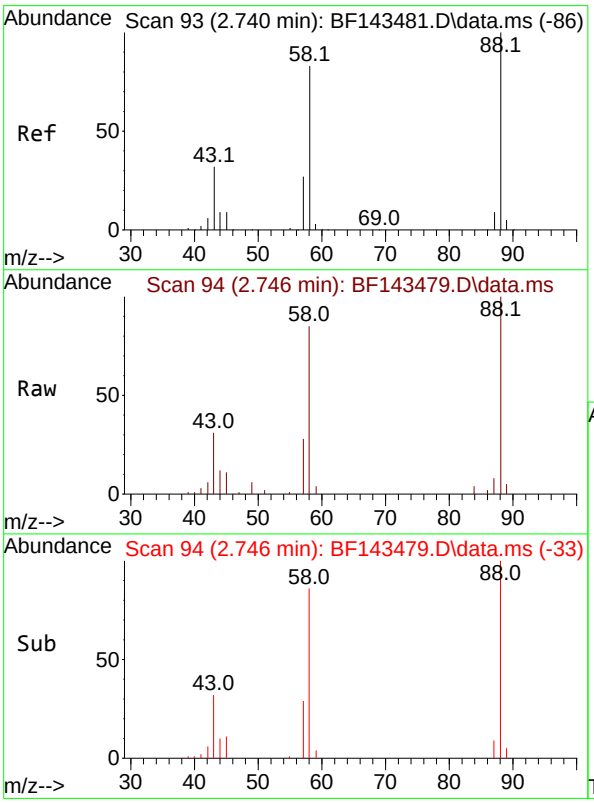
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.928 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:152 Resp: 138225

Ion	Ratio	Lower	Upper
152	100		
150	157.2	128.9	193.3
115	59.5	49.2	73.8

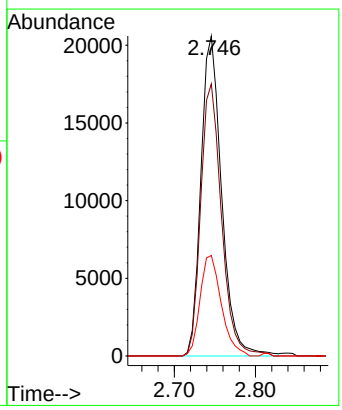


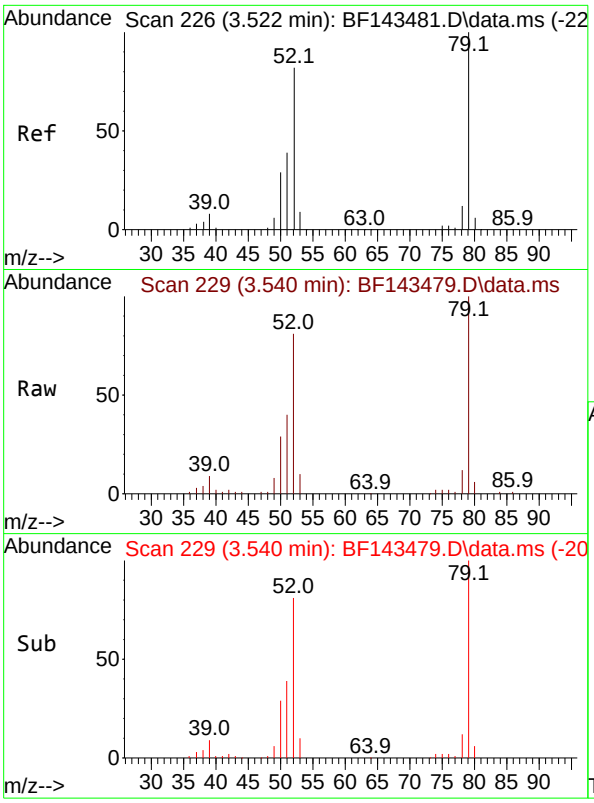


#2
1,4-Dioxane
Concen: 9.961 ng
RT: 2.746 min Scan# 94
Delta R.T. 0.012 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Tgt Ion: 88 Resp: 36526

Ion	Ratio	Lower	Upper
88	100		
58	84.9	66.7	100.1
43	32.3	25.8	38.8



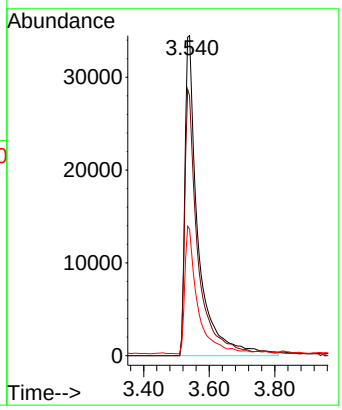


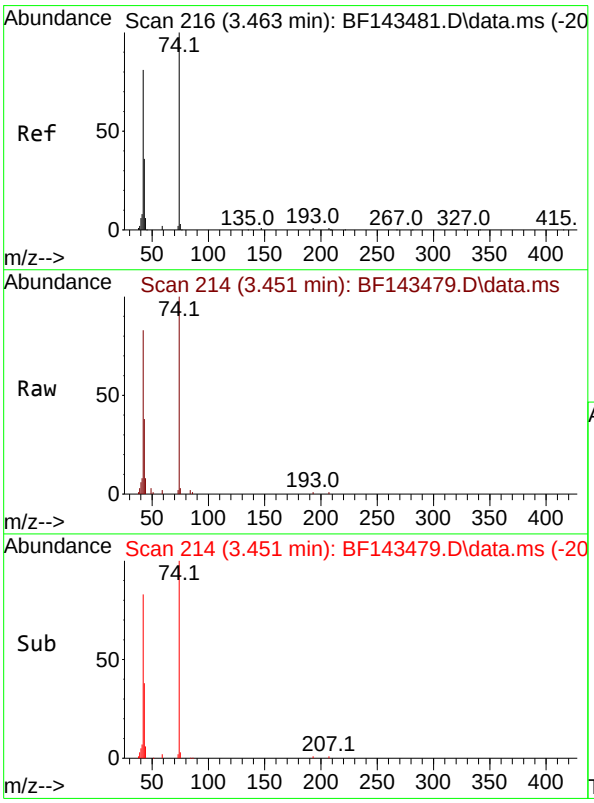
#3
Pyridine
Concen: 9.852 ng
RT: 3.540 min Scan# 2
Delta R.T. 0.023 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion: 79 Resp: 96225

Ion	Ratio	Lower	Upper
79	100		
52	81.2	65.6	98.4
51	39.6	31.2	46.8

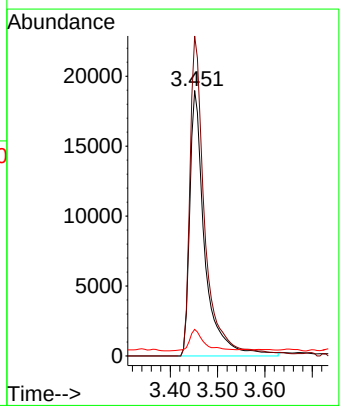


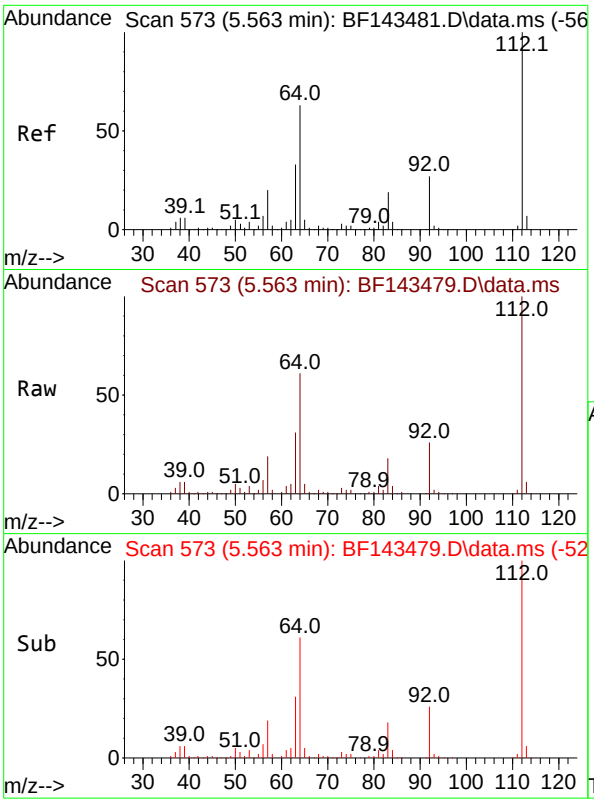


#4
n-Nitrosodimethylamine
Concen: 9.507 ng
RT: 3.451 min Scan# 214
Delta R.T. -0.024 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Tgt Ion: 42 Resp: 41741

Ion	Ratio	Lower	Upper
42	100		
74	120.6	98.6	148.0
44	10.0	5.8	8.8#



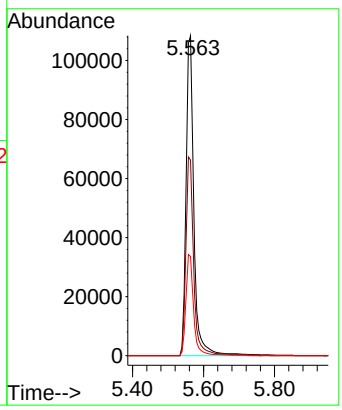


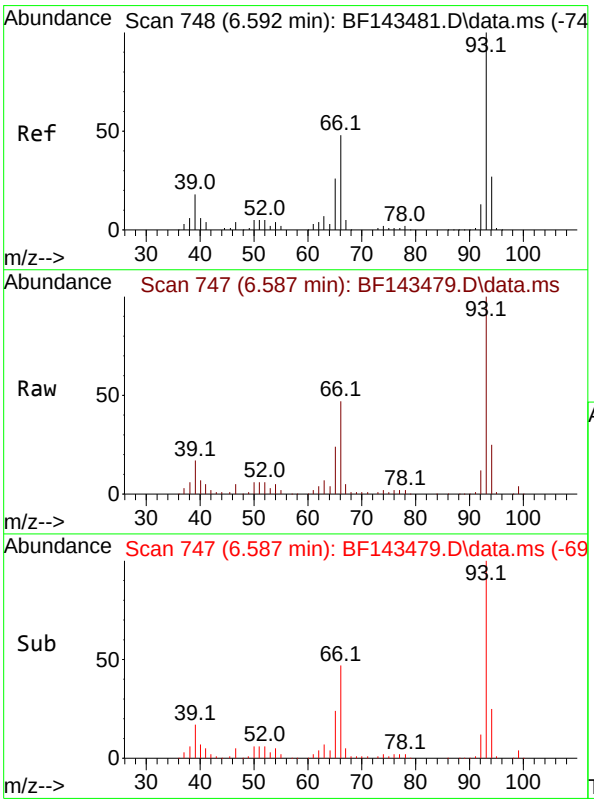
#5
2-Fluorophenol
Concen: 20.911 ng
RT: 5.563 min Scan# 5
Delta R.T. -0.000 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:112 Resp: 165533

Ion	Ratio	Lower	Upper
112	100		
64	61.1	50.4	75.6
63	31.0	26.4	39.6

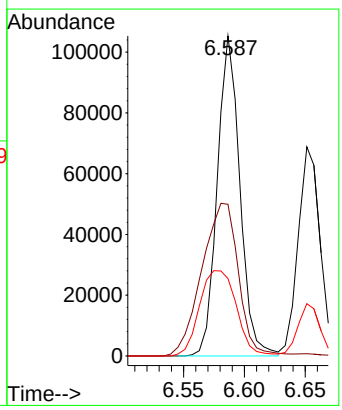


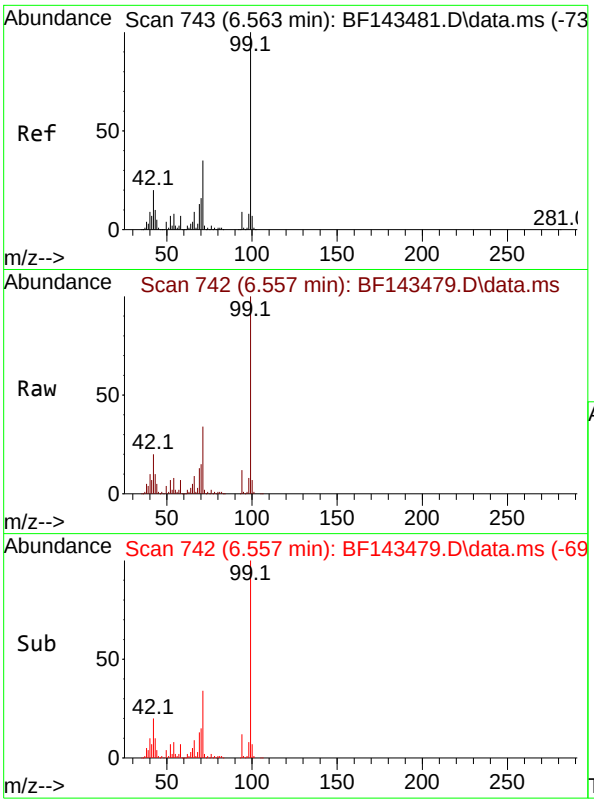


#6
Aniline
Concen: 10.420 ng
RT: 6.587 min Scan# 747
Delta R.T. -0.006 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Tgt Ion: 93 Resp: 136107

Ion	Ratio	Lower	Upper
93	100		
66	47.4	38.9	58.3
65	24.2	20.6	30.8



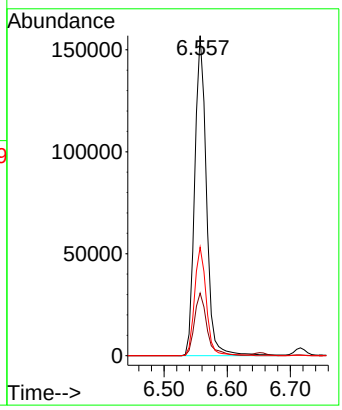


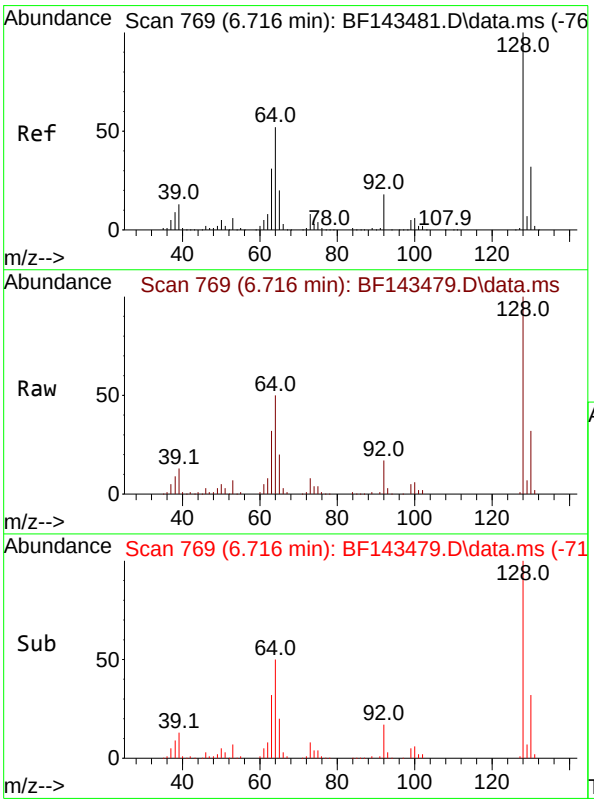
#7
Phenol-d6
Concen: 20.646 ng
RT: 6.557 min Scan# 7
Delta R.T. -0.018 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion: 99 Resp: 201752

Ion	Ratio	Lower	Upper
99	100		
42	19.6	16.3	24.5
71	33.9	28.2	42.2

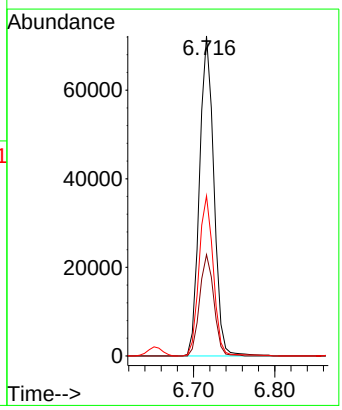


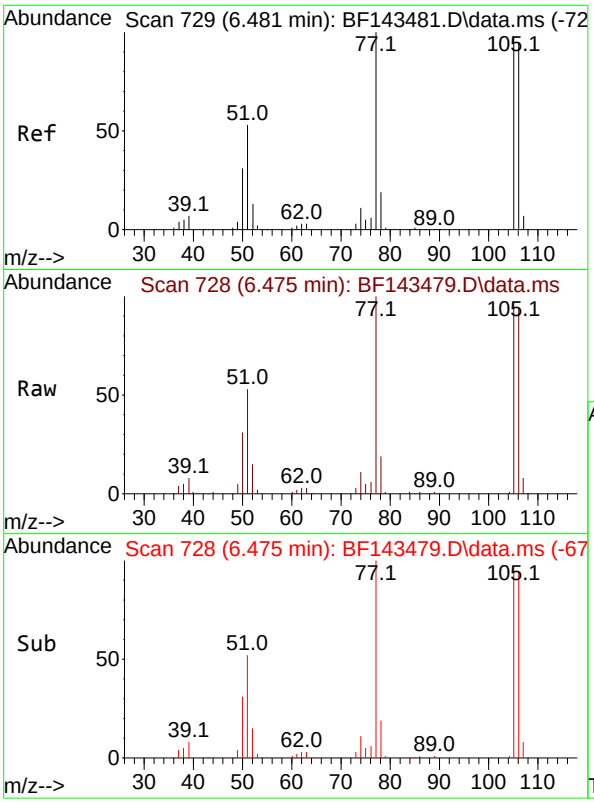


#8
2-Chlorophenol
Concen: 10.152 ng
RT: 6.716 min Scan# 769
Delta R.T. -0.006 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Tgt Ion:128 Resp: 88766

Ion	Ratio	Lower	Upper
128	100		
130	31.7	12.4	52.4
64	50.0	31.6	71.6



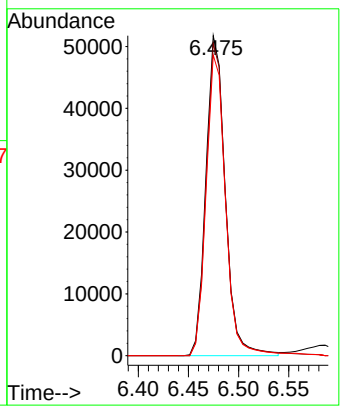


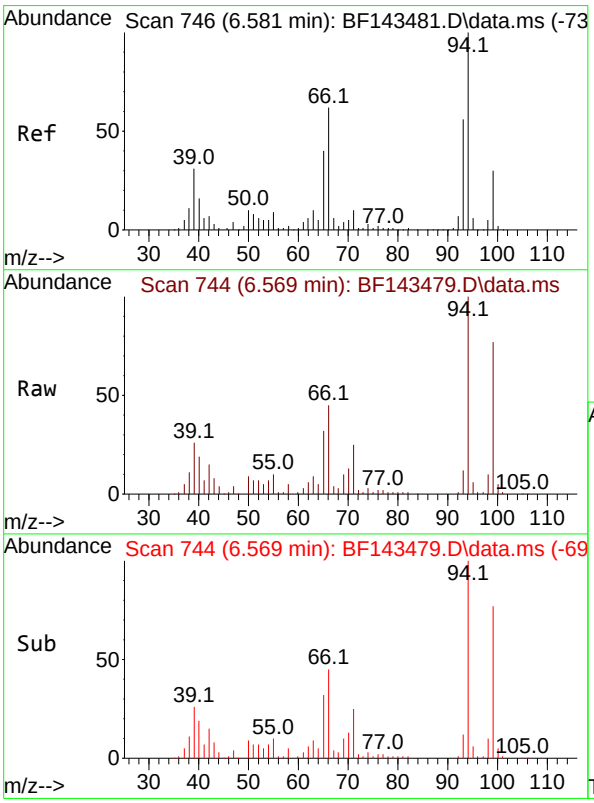
#9
Benzaldehyde
Concen: 8.802 ng
RT: 6.475 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion: 77 Resp: 69636

Ion	Ratio	Lower	Upper
77	100		
105	97.5	78.1	118.1
106	94.0	74.9	114.9

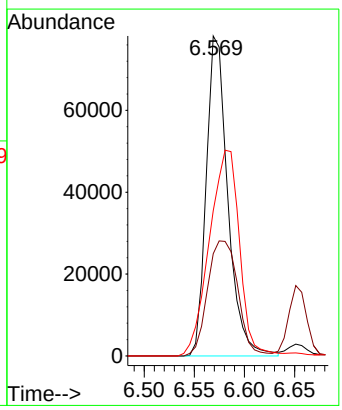


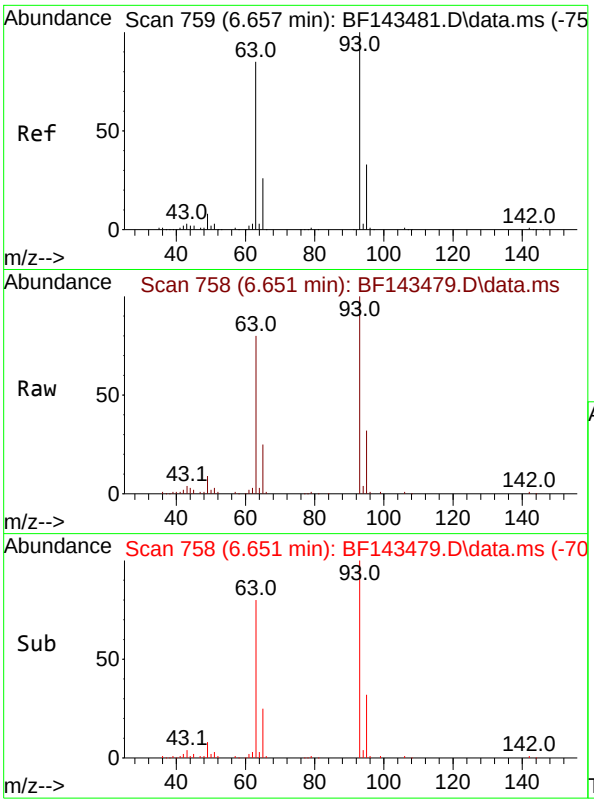


#10
Phenol
Concen: 10.408 ng
RT: 6.569 min Scan# 744
Delta R.T. -0.018 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Tgt Ion: 94 Resp: 117160

Ion	Ratio	Lower	Upper
94	100		
65	32.0	19.5	59.5
66	45.4	42.5	82.5



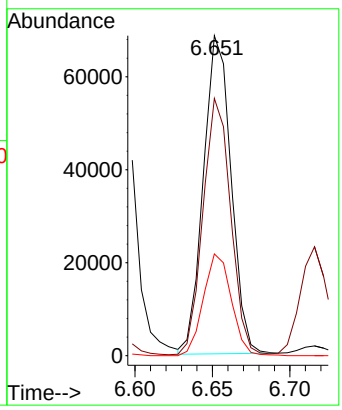


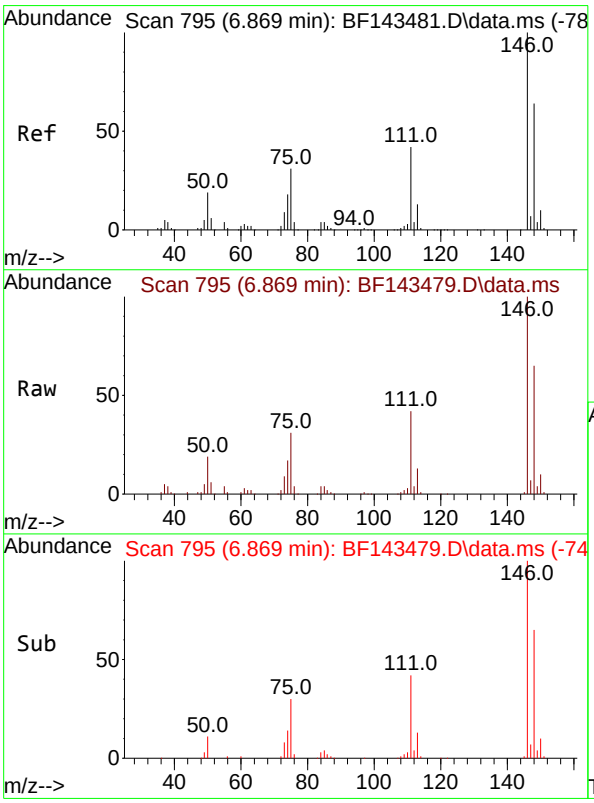
#11
bis(2-Chloroethyl)ether
Concen: 10.102 ng
RT: 6.651 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion: 93 Resp: 84985

Ion	Ratio	Lower	Upper
93	100		
63	80.4	63.6	103.6
95	31.8	12.8	52.8

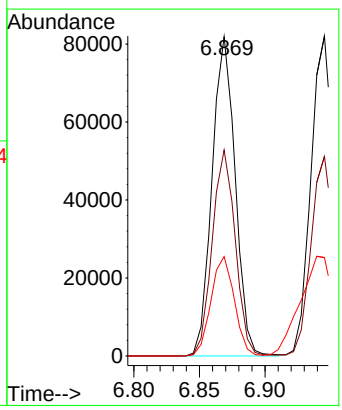


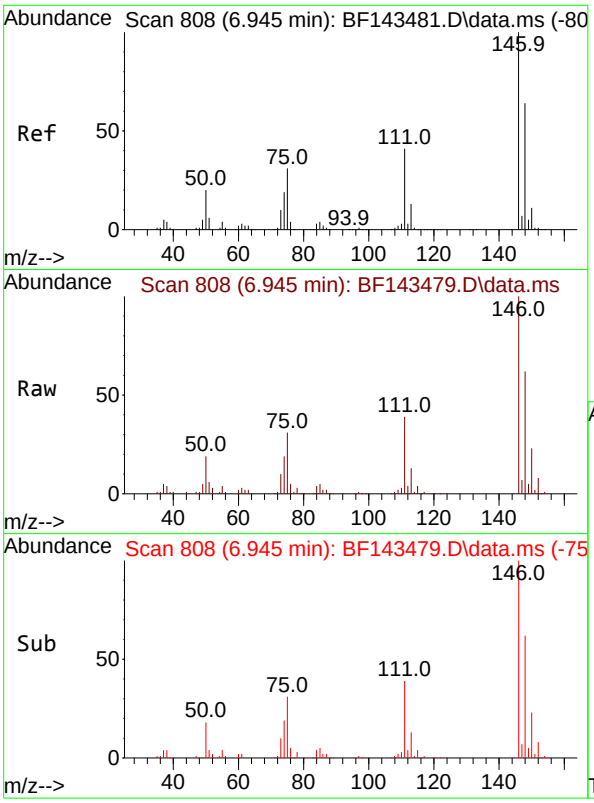


#12
1,3-Dichlorobenzene
Concen: 10.207 ng
RT: 6.869 min Scan# 795
Delta R.T. -0.006 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Tgt Ion:146 Resp: 100273

Ion	Ratio	Lower	Upper
146	100		
148	64.5	51.3	76.9
75	31.1	24.7	37.1



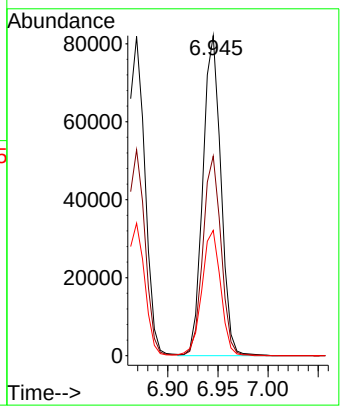


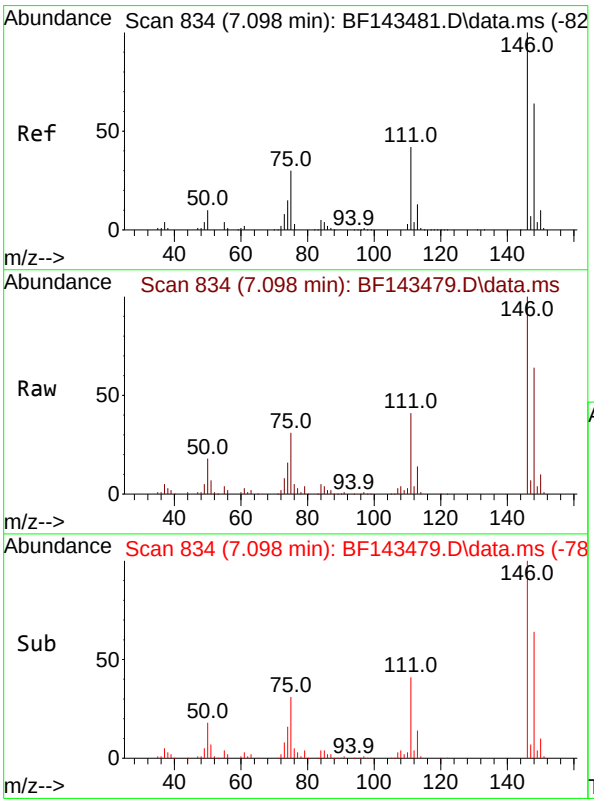
#13
1,4-Dichlorobenzene
Concen: 10.432 ng
RT: 6.945 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:146 Resp: 102802

Ion	Ratio	Lower	Upper
146	100		
148	62.3	51.5	77.3
111	39.1	32.6	49.0

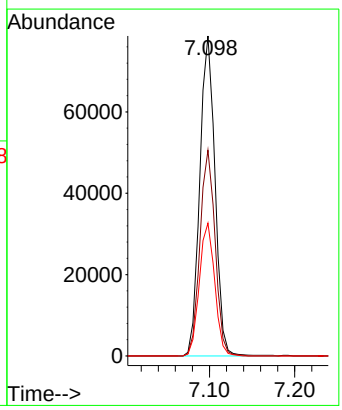


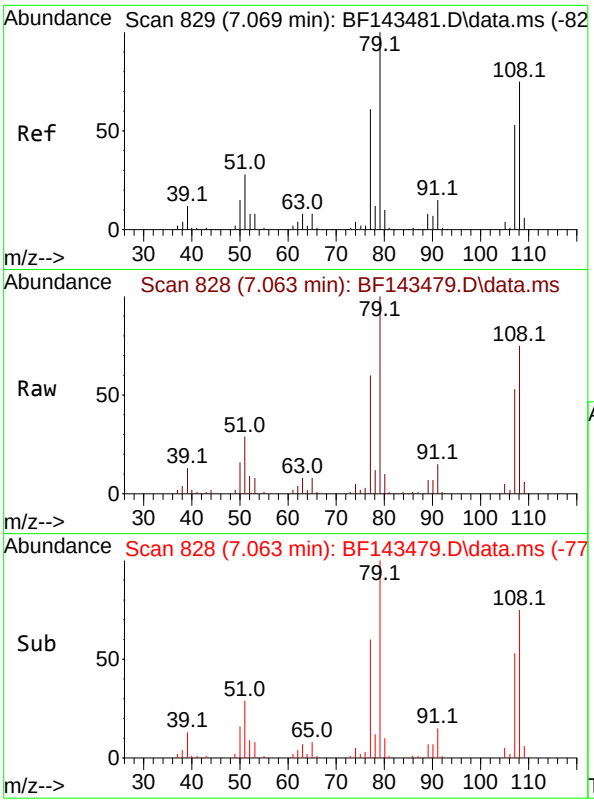


#14
1,2-Dichlorobenzene
Concen: 10.464 ng
RT: 7.098 min Scan# 834
Delta R.T. -0.000 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Tgt Ion:146 Resp: 97628

Ion	Ratio	Lower	Upper
146	100		
148	64.3	51.0	76.6
111	41.5	34.0	51.0



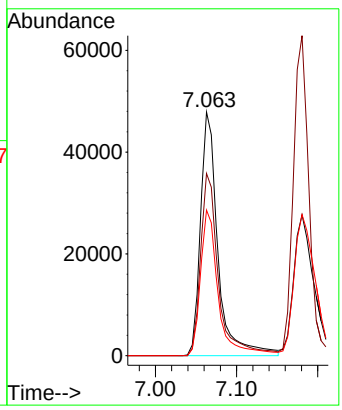


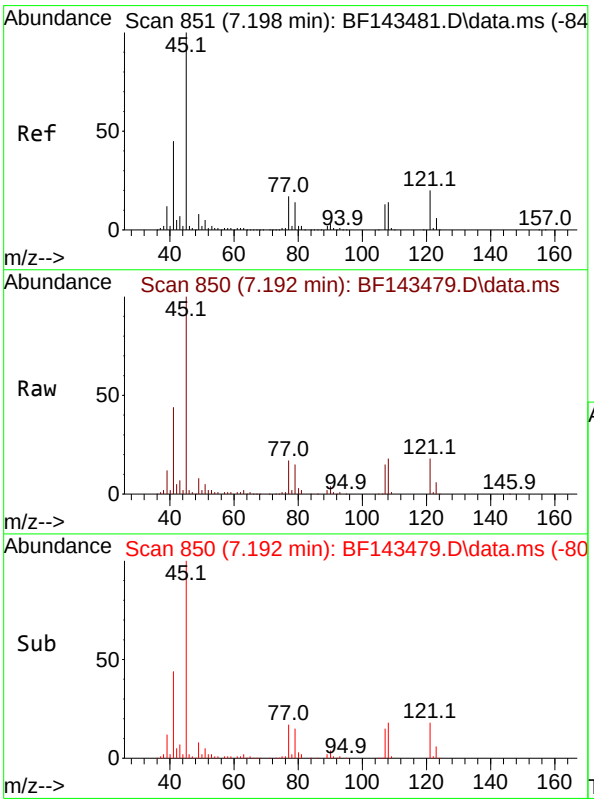
#15
Benzyl Alcohol
Concen: 9.792 ng
RT: 7.063 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion: 79 Resp: 71642

Ion	Ratio	Lower	Upper
79	100		
108	74.8	59.8	89.6
77	59.8	49.0	73.4

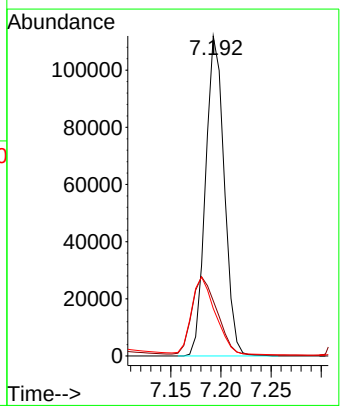


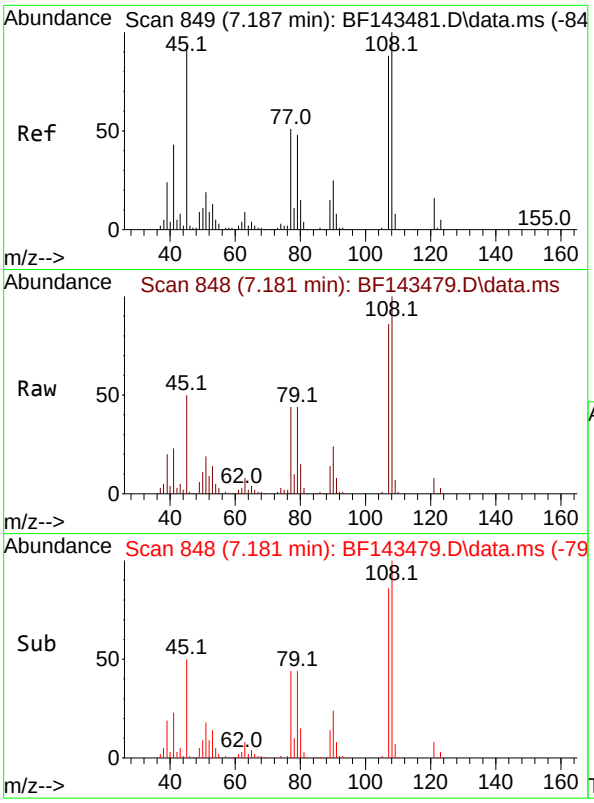


#16
2,2'-oxybis(1-Chloropropane)
Concen: 10.806 ng
RT: 7.192 min Scan# 850
Delta R.T. -0.006 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Tgt Ion: 45 Resp: 145437

Ion	Ratio	Lower	Upper
45	100		
77	17.2	0.0	37.9
79	14.9	0.0	34.7



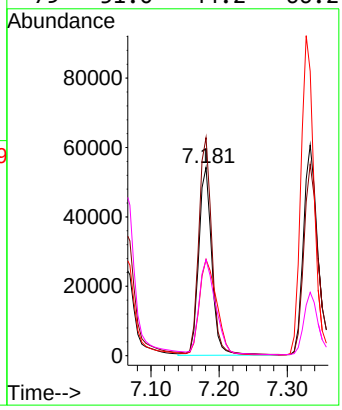


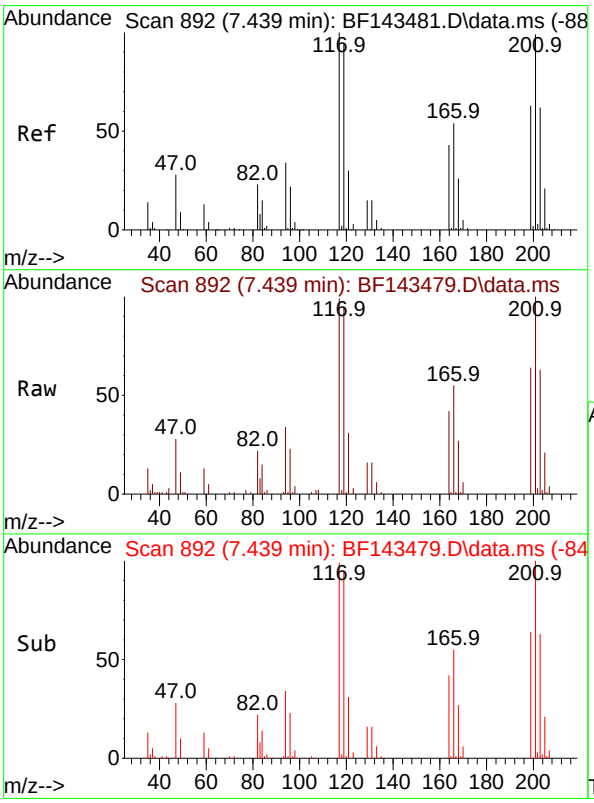
#17
2-Methylphenol
Concen: 10.260 ng
RT: 7.181 min Scan# 84
Delta R.T. -0.006 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:107 Resp: 71996

Ion	Ratio	Lower	Upper
107	100		
108	115.9	91.1	136.7
77	51.1	46.2	69.4
79	51.0	44.2	66.2

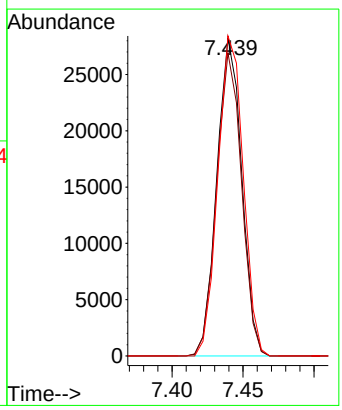


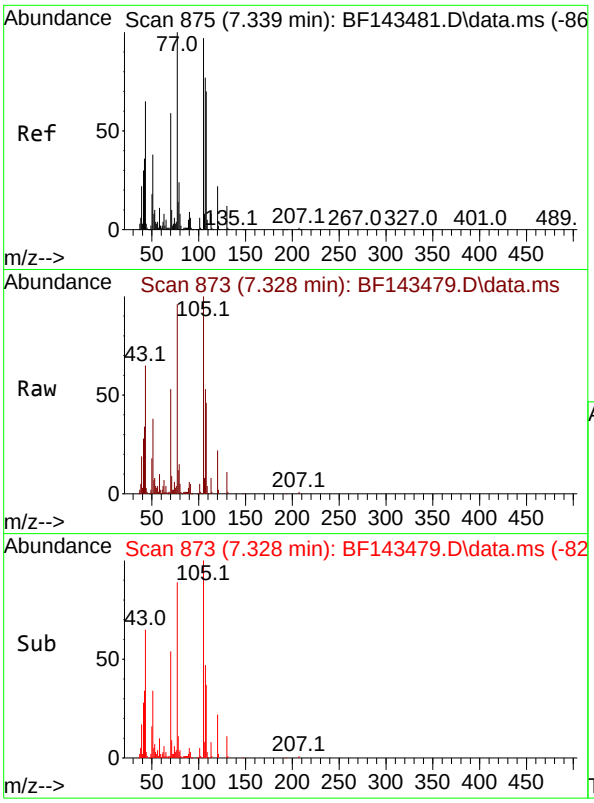


#18
Hexachloroethane
Concen: 10.276 ng
RT: 7.439 min Scan# 892
Delta R.T. -0.006 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Tgt Ion:117 Resp: 34428

Ion	Ratio	Lower	Upper
117	100		
119	95.3	75.4	113.0
201	100.6	79.0	118.4



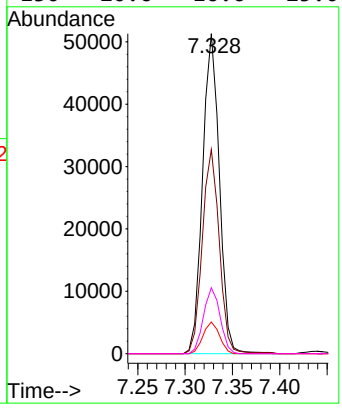


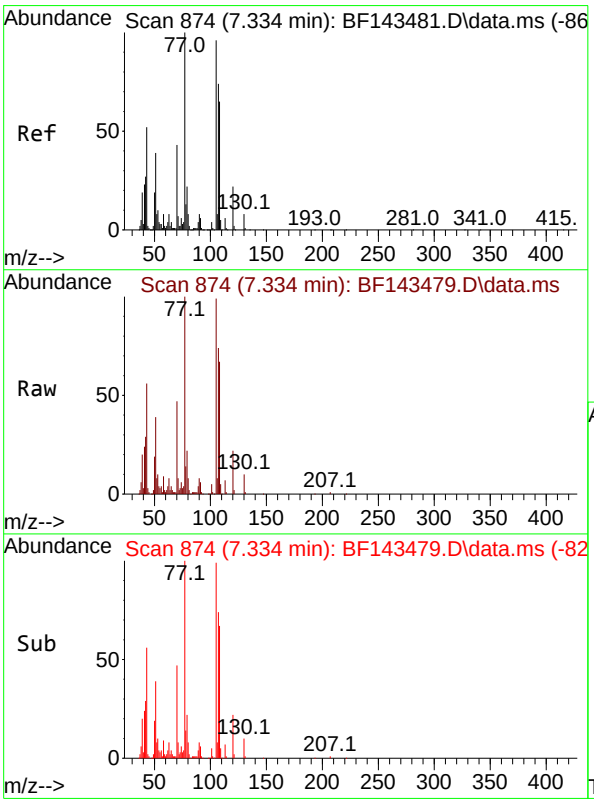
#19
n-Nitroso-di-n-propylamine
Concen: 10.552 ng
RT: 7.328 min Scan# 8
Delta R.T. -0.024 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion: 70 Resp: 63026

Ion	Ratio	Lower	Upper
70	100		
42	63.8	49.3	73.9
101	9.9	7.8	11.8
130	20.6	16.6	25.0

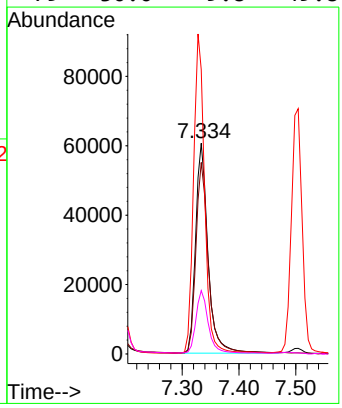


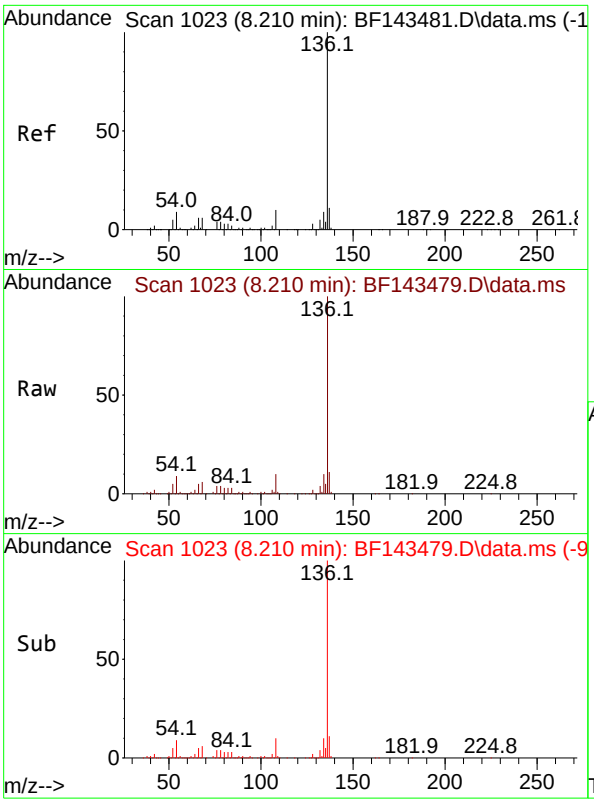


#20
3+4-Methylphenols
Concen: 11.034 ng
RT: 7.334 min Scan# 874
Delta R.T. -0.006 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Tgt Ion:107 Resp: 92430

Ion	Ratio	Lower	Upper
107	100		
108	90.9	68.4	108.4
77	134.9	116.1	156.1
79	30.0	9.8	49.8



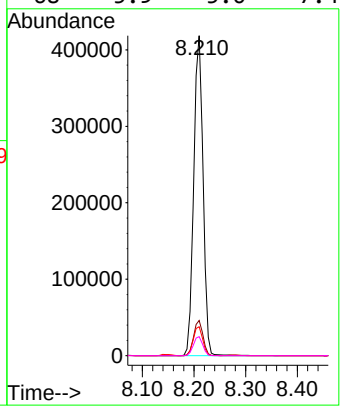


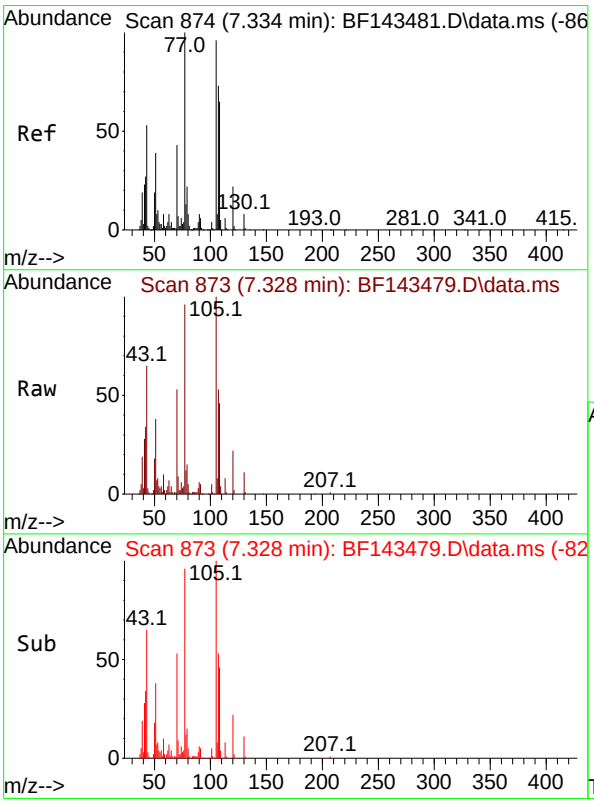
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.210 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:136 Resp: 525191

Ion	Ratio	Lower	Upper
136	100		
137	11.0	9.0	13.4
54	9.0	7.4	11.2
68	5.9	5.0	7.4

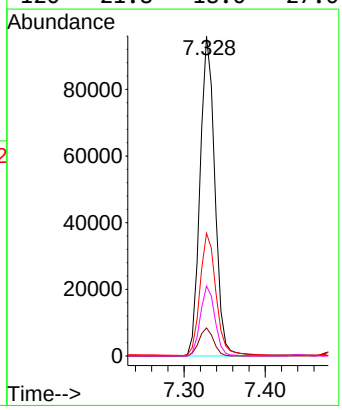


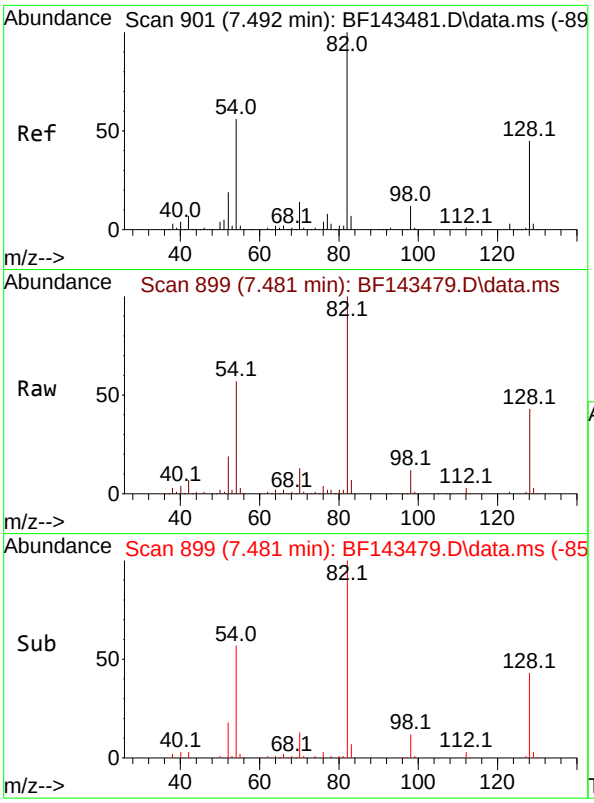


#22
Acetophenone
Concen: 10.745 ng
RT: 7.328 min Scan# 873
Delta R.T. -0.012 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Tgt Ion:105 Resp: 121914

Ion	Ratio	Lower	Upper
105	100		
71	8.8	5.9	8.9
51	38.4	32.5	48.7
120	21.8	18.0	27.0



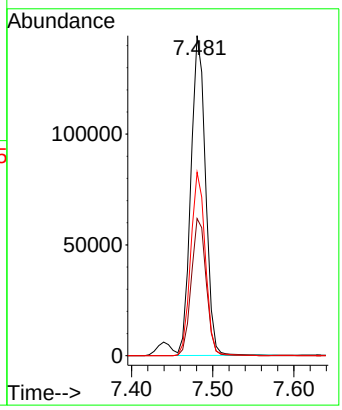


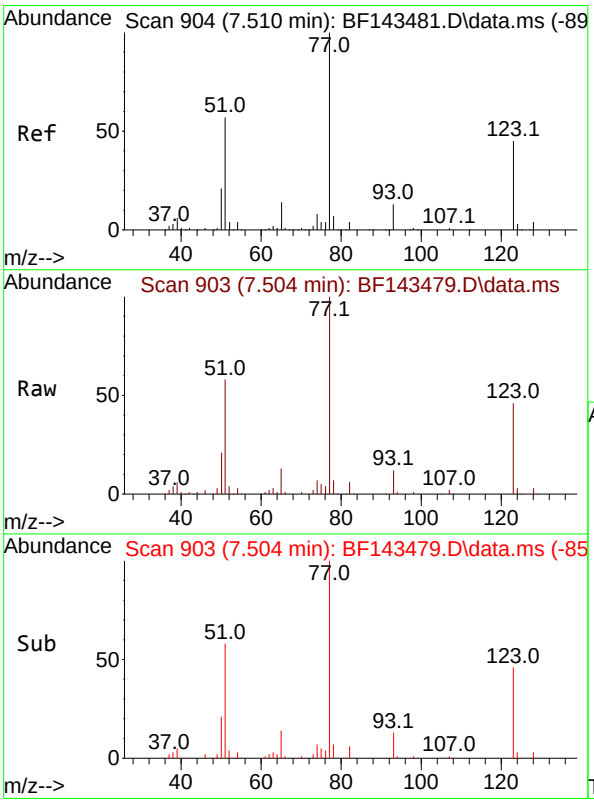
#23
Nitrobenzene-d5
Concen: 20.141 ng
RT: 7.481 min Scan# 8
Delta R.T. -0.018 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion: 82 Resp: 181268

Ion	Ratio	Lower	Upper
82	100		
128	42.9	35.5	53.3
54	57.3	44.3	66.5

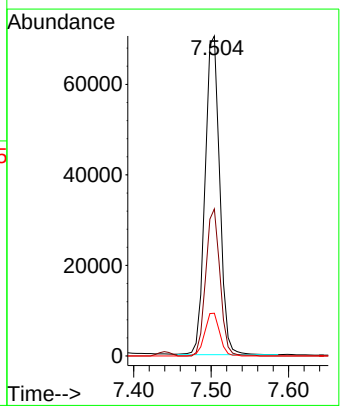


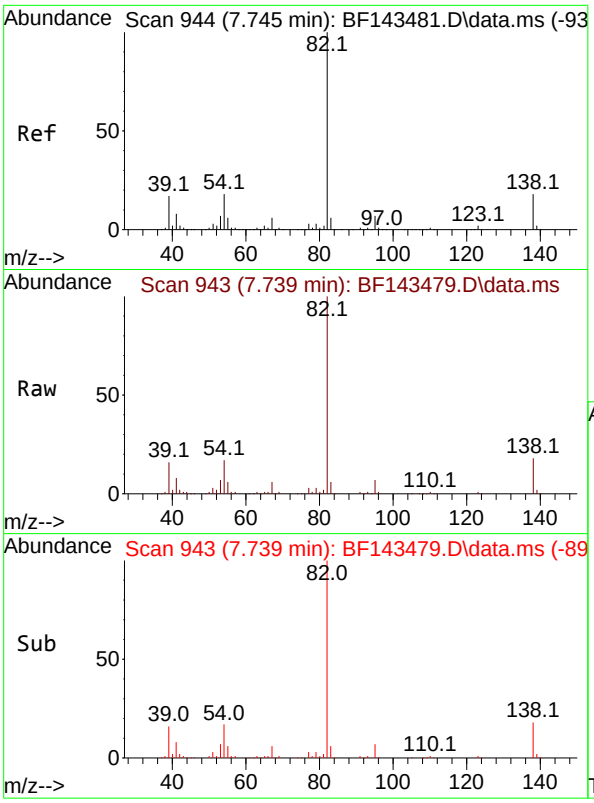


#24
Nitrobenzene
Concen: 9.960 ng
RT: 7.504 min Scan# 903
Delta R.T. -0.012 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Tgt Ion: 77 Resp: 92261

Ion	Ratio	Lower	Upper
77	100		
123	46.0	36.1	54.1
65	13.4	11.0	16.6



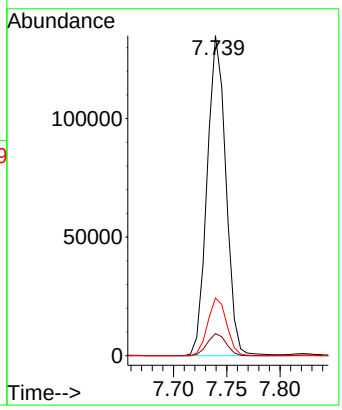


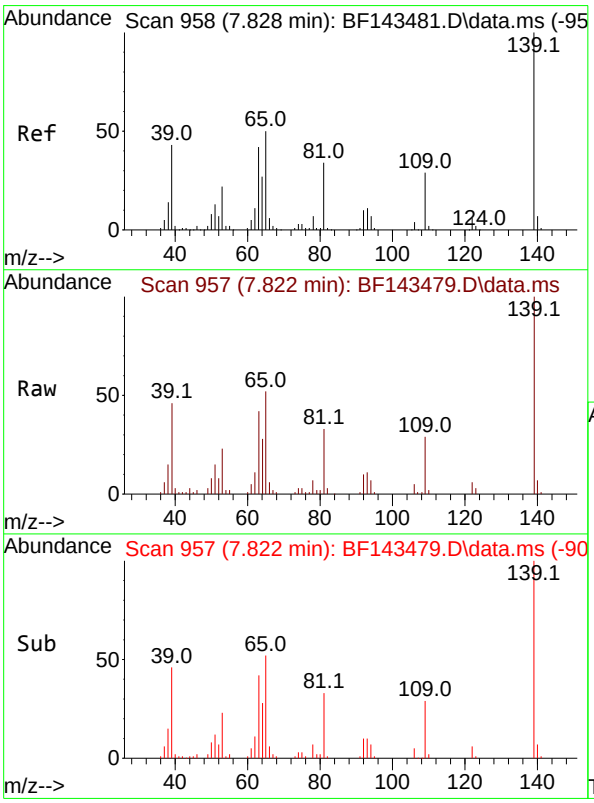
#25
Isophorone
Concen: 10.025 ng
RT: 7.739 min Scan# 94
Delta R.T. -0.018 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion: 82 Resp: 165391

Ion	Ratio	Lower	Upper
82	100		
95	6.9	5.8	8.8
138	18.1	14.2	21.4

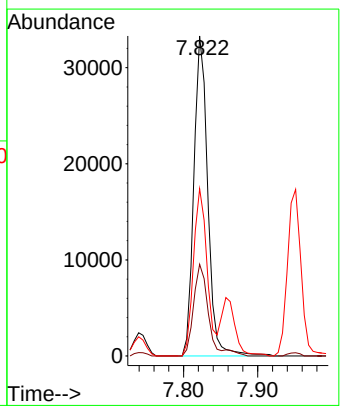


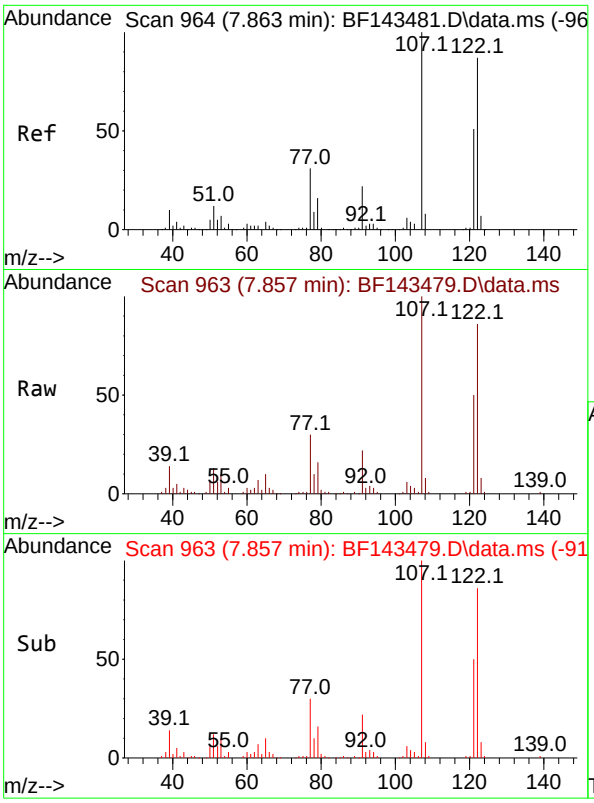


#26
2-Nitrophenol
Concen: 9.575 ng
RT: 7.822 min Scan# 957
Delta R.T. -0.006 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Tgt Ion:139 Resp: 43444

Ion	Ratio	Lower	Upper
139	100		
109	28.6	23.0	34.6
65	52.3	40.3	60.5



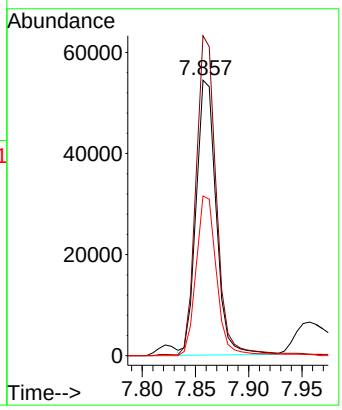


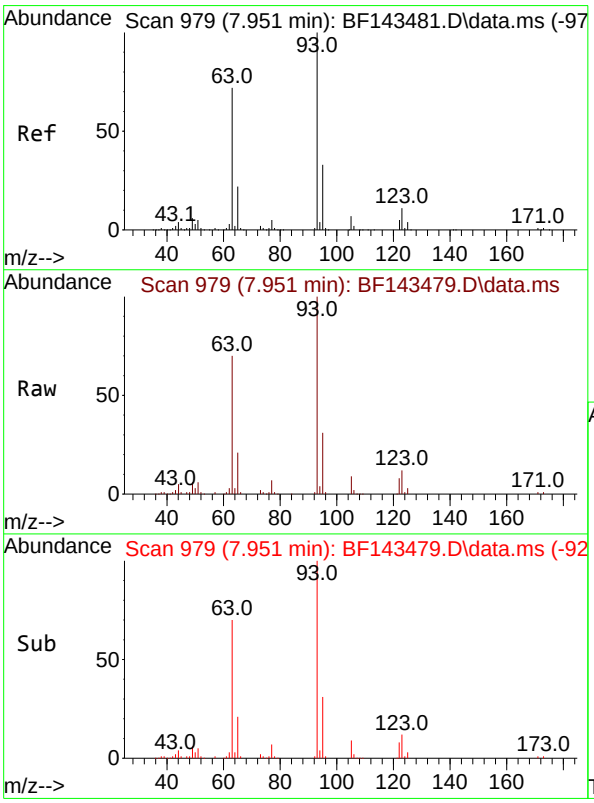
#27
2,4-Dimethylphenol
Concen: 10.105 ng
RT: 7.857 min Scan# 9
Delta R.T. -0.012 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:122 Resp: 71477

Ion	Ratio	Lower	Upper
122	100		
107	116.1	91.5	137.3
121	57.9	47.0	70.4

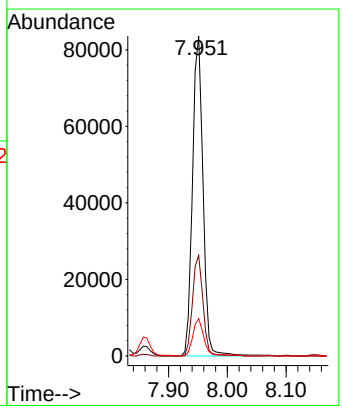


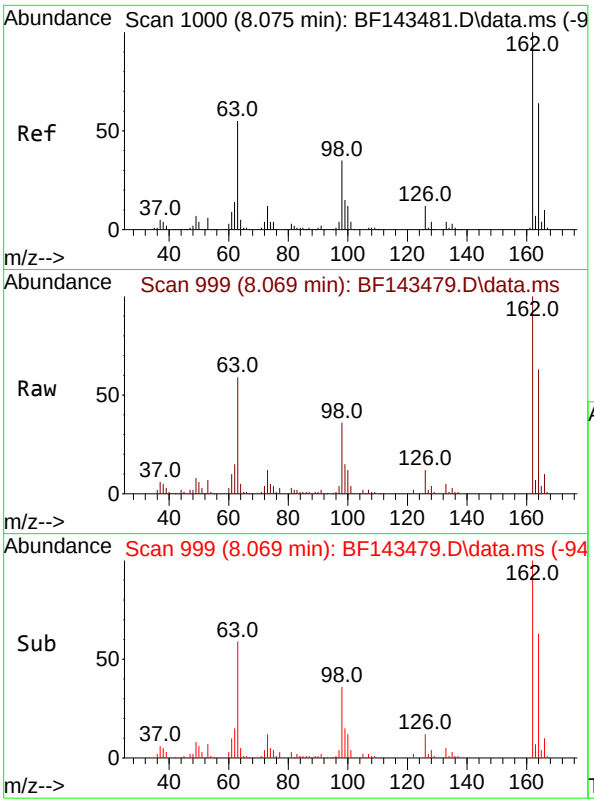


#28
bis(2-Chloroethoxy)methane
Concen: 10.329 ng
RT: 7.951 min Scan# 979
Delta R.T. -0.006 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Tgt Ion: 93 Resp: 104720

Ion	Ratio	Lower	Upper
93	100		
95	31.4	26.0	39.0
123	11.6	9.1	13.7



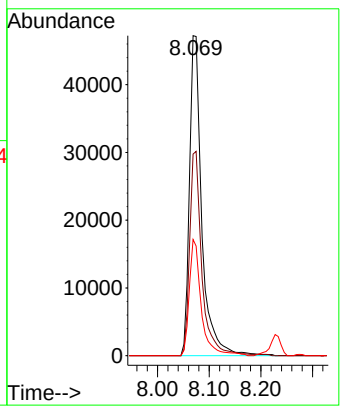


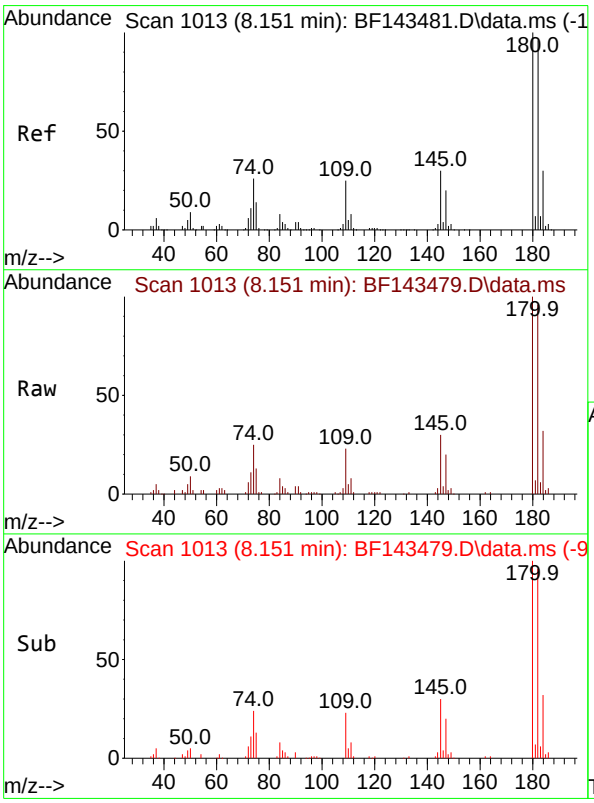
#29
2,4-Dichlorophenol
Concen: 10.394 ng
RT: 8.069 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:162 Resp: 78518

Ion	Ratio	Lower	Upper
162	100		
164	63.0	43.5	83.5
98	36.3	15.1	55.1

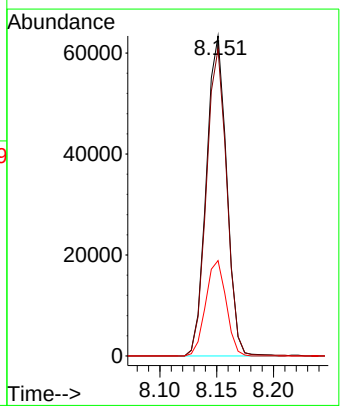


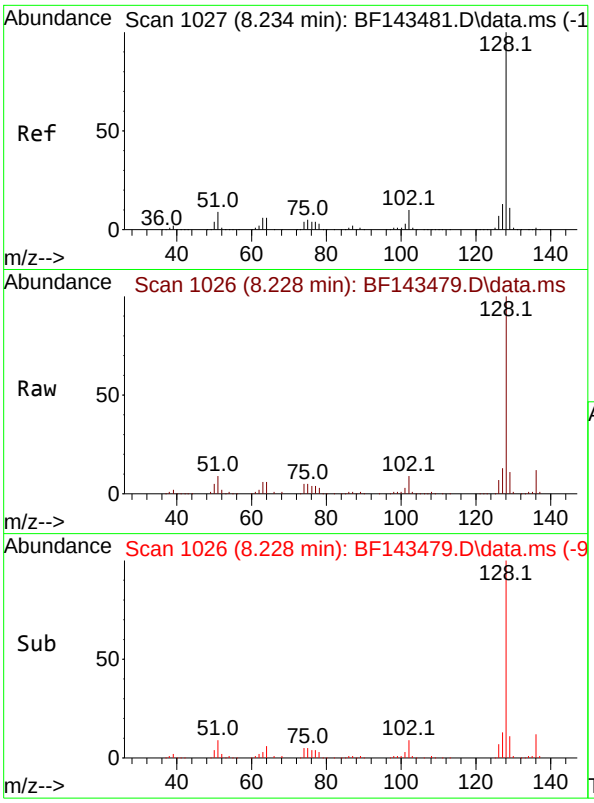


#30
1,2,4-Trichlorobenzene
Concen: 10.143 ng
RT: 8.151 min Scan# 1013
Delta R.T. -0.000 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Tgt Ion:180 Resp: 78780

Ion	Ratio	Lower	Upper
180	100		
182	95.9	76.6	114.8
145	29.8	24.3	36.5



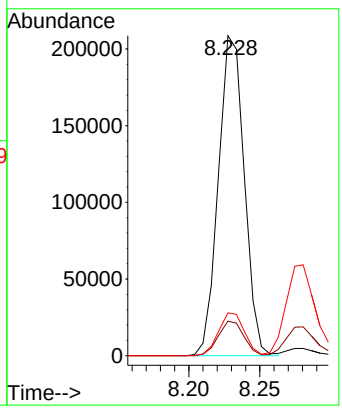


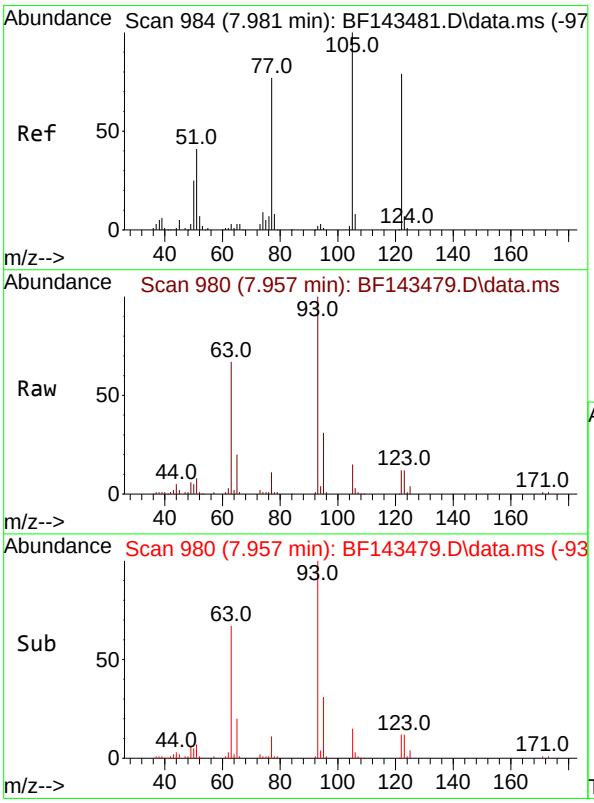
#31
Naphthalene
Concen: 10.503 ng
RT: 8.228 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:128 Resp: 264837

Ion	Ratio	Lower	Upper
128	100		
129	10.8	8.8	13.2
127	13.4	10.6	16.0

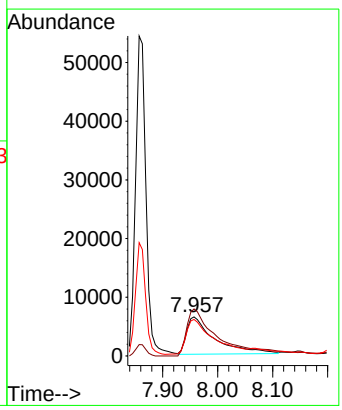


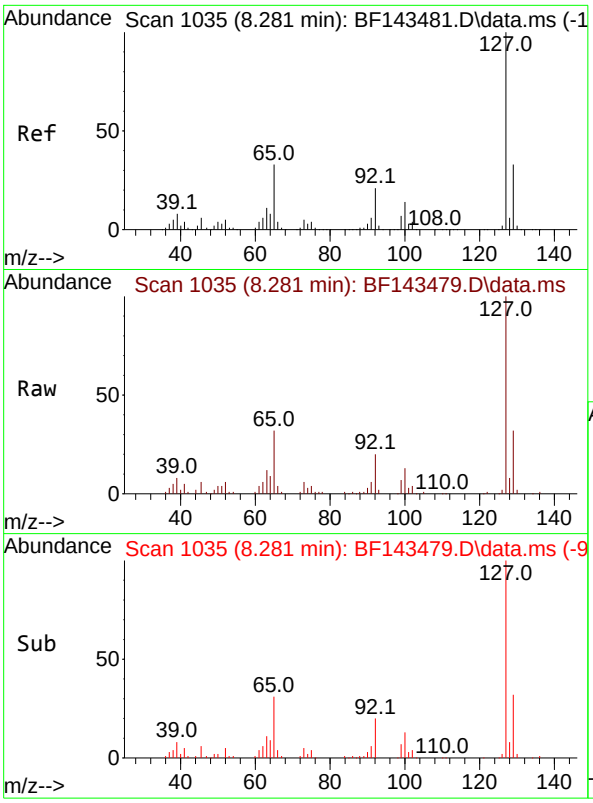


#32
Benzoic acid
Concen: 10.817 ng
RT: 7.957 min Scan# 980
Delta R.T. -0.053 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Tgt Ion:122 Resp: 22608

Ion	Ratio	Lower	Upper
122	100		
105	120.4	104.7	144.7
77	93.4	77.3	117.3



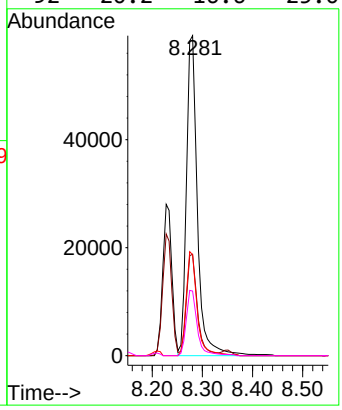


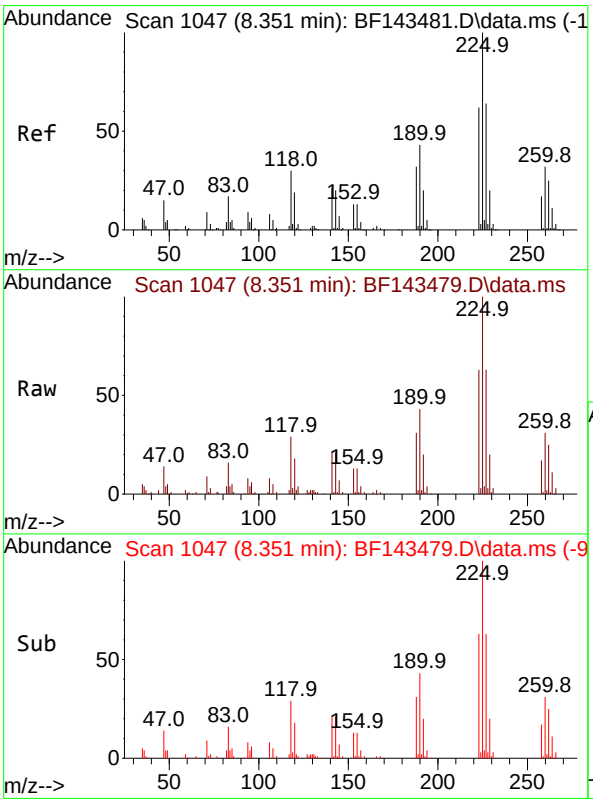
#33
4-Chloroaniline
Concen: 10.129 ng
RT: 8.281 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:127 Resp: 90644

Ion	Ratio	Lower	Upper
127	100		
129	31.7	26.1	39.1
65	31.6	26.2	39.2
92	20.2	16.6	25.0

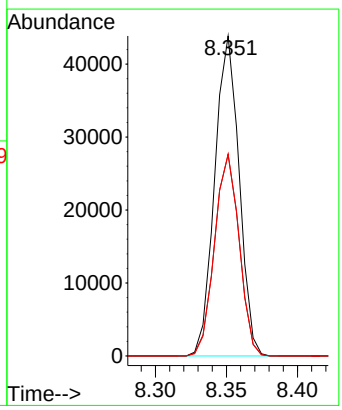


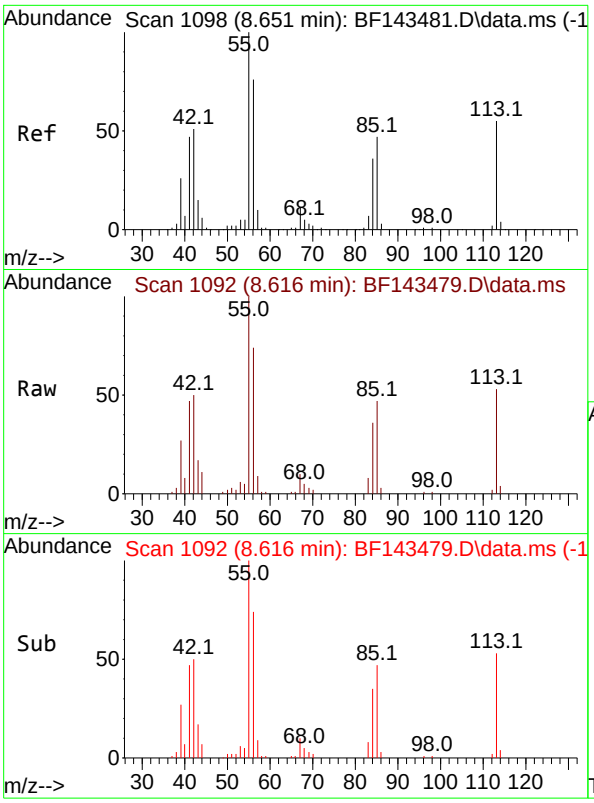


#34
Hexachlorobutadiene
Concen: 10.321 ng
RT: 8.351 min Scan# 1047
Delta R.T. -0.000 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Tgt Ion:225 Resp: 52299

Ion	Ratio	Lower	Upper
225	100		
223	62.9	49.9	74.9
227	63.1	50.9	76.3



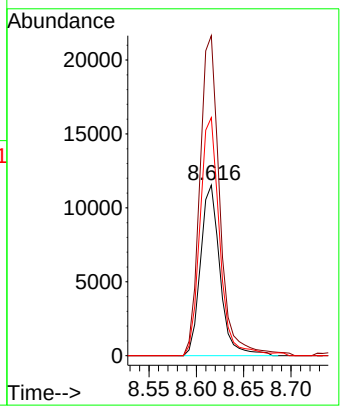


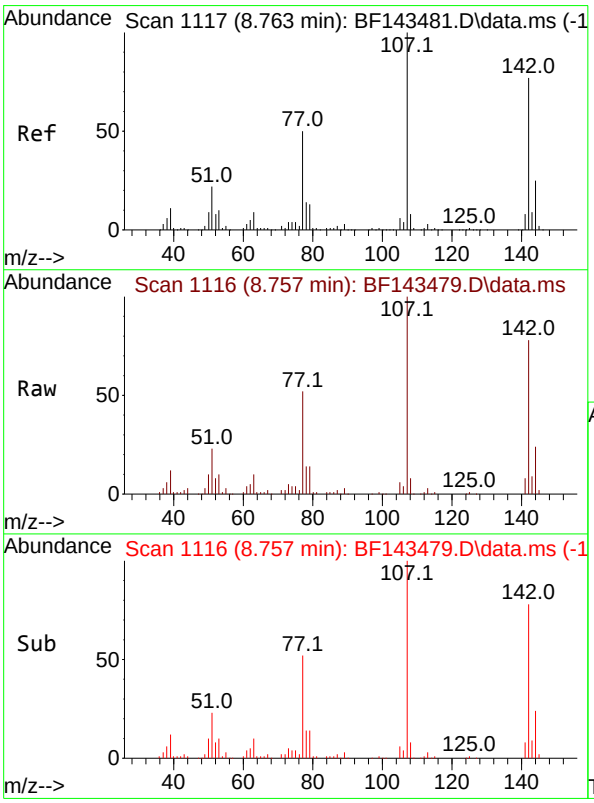
#35
Caprolactam
Concen: 9.099 ng
RT: 8.616 min Scan# 1
Delta R.T. -0.059 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:113 Resp: 16494

Ion	Ratio	Lower	Upper
113	100		
55	187.6	162.8	202.8
56	139.5	118.1	158.1

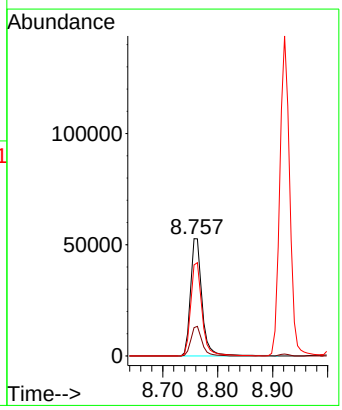


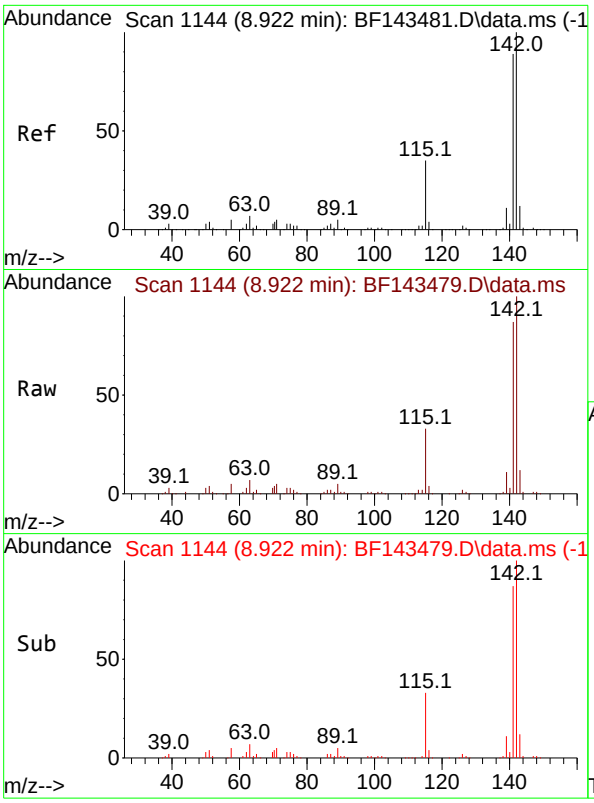


#36
4-Chloro-3-methylphenol
Concen: 10.126 ng
RT: 8.757 min Scan# 1116
Delta R.T. -0.012 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Tgt Ion:107 Resp: 76657

Ion	Ratio	Lower	Upper
107	100		
144	24.2	19.9	29.9
142	77.7	61.8	92.8



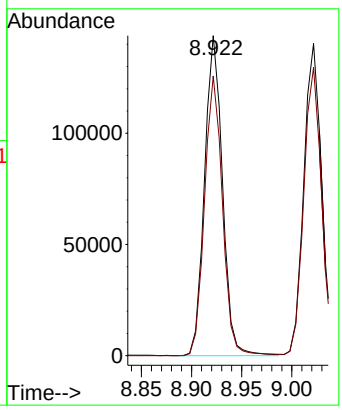


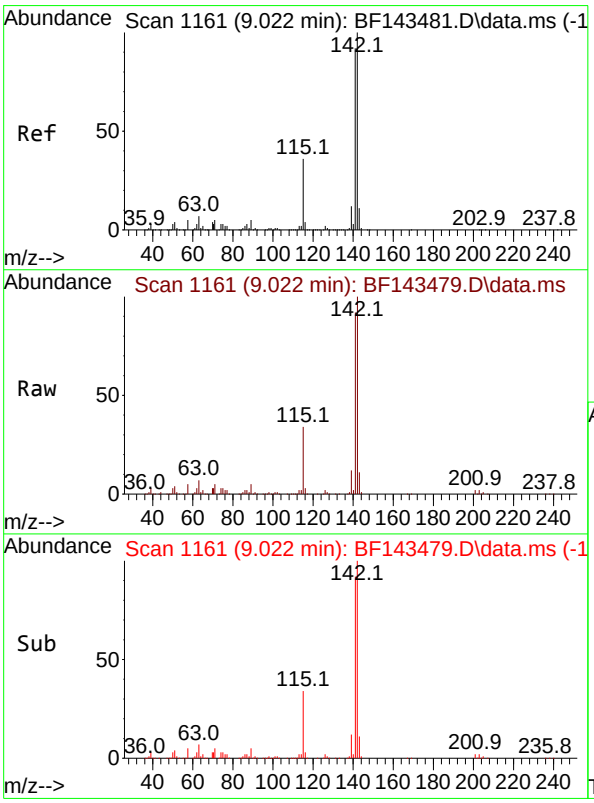
#37
2-Methylnaphthalene
Concen: 10.663 ng
RT: 8.922 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:142 Resp: 179574

Ion	Ratio	Lower	Upper
142	100		
141	87.4	71.0	106.4

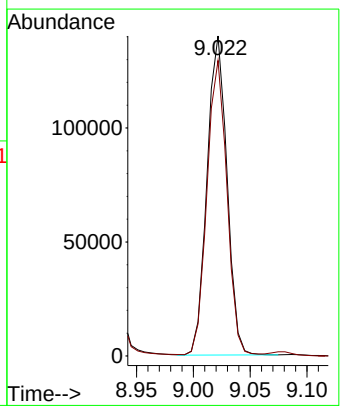


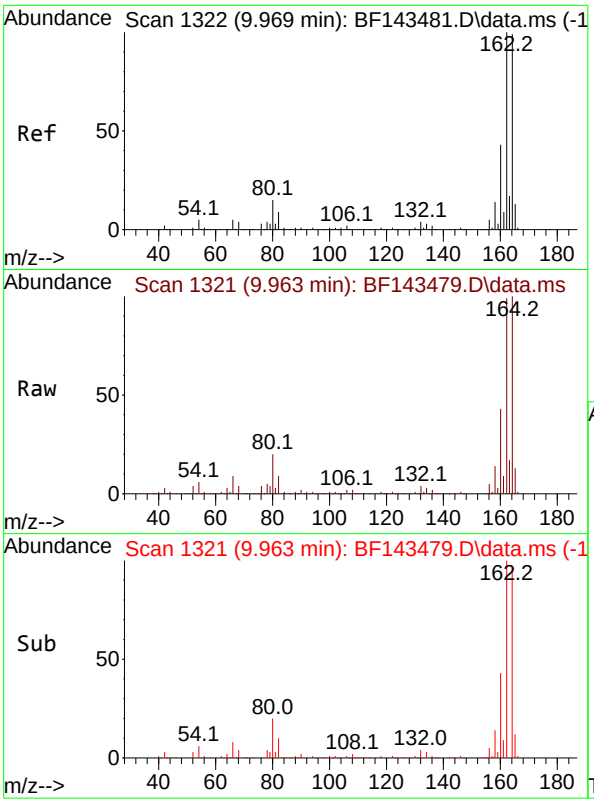


#38
1-Methylnaphthalene
Concen: 10.606 ng
RT: 9.022 min Scan# 1161
Delta R.T. -0.006 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Tgt Ion:142 Resp: 170845

Ion	Ratio	Lower	Upper
142	100		
141	92.4	73.3	109.9



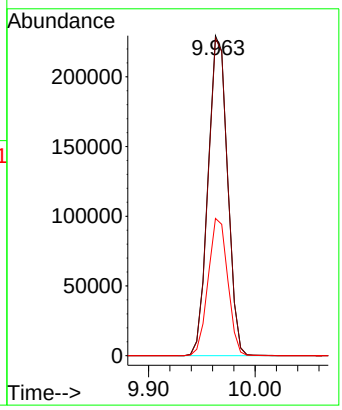


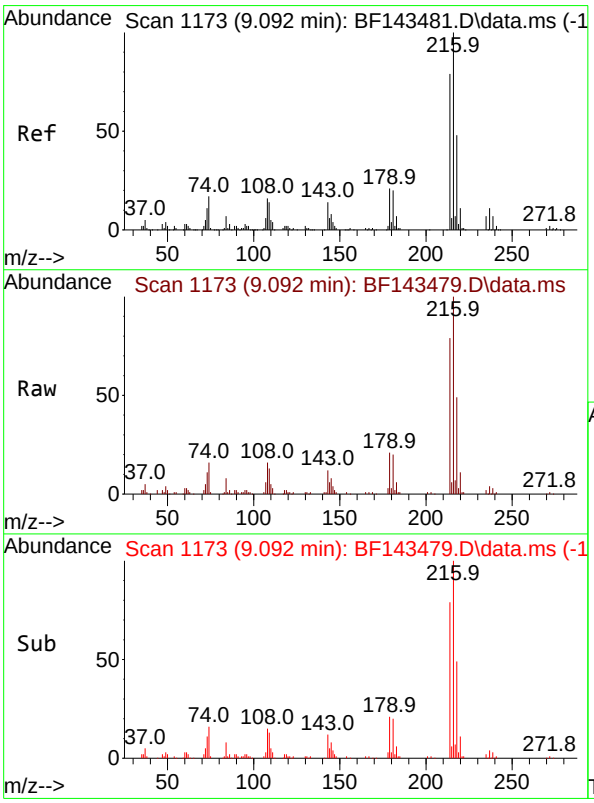
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.963 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:164 Resp: 291754

Ion	Ratio	Lower	Upper
164	100		
162	99.3	80.5	120.7
160	42.9	34.3	51.5

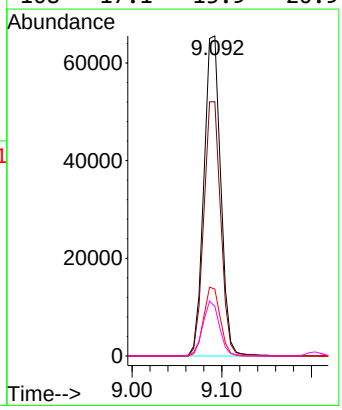


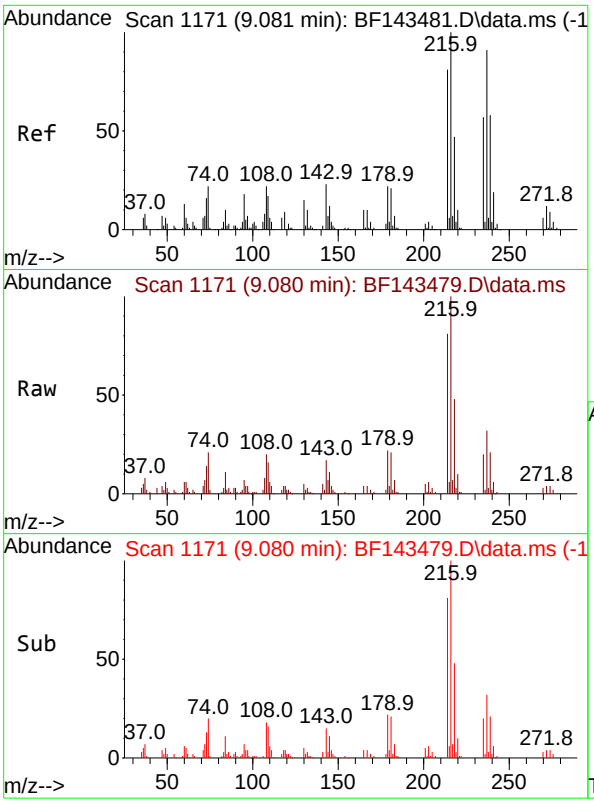


#40
1,2,4,5-Tetrachlorobenzene
Concen: 10.207 ng
RT: 9.092 min Scan# 1173
Delta R.T. -0.000 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Tgt Ion:216 Resp: 85181

Ion	Ratio	Lower	Upper
216	100		
214	79.8	63.4	95.0
179	21.1	16.5	24.7
108	17.1	13.9	20.9



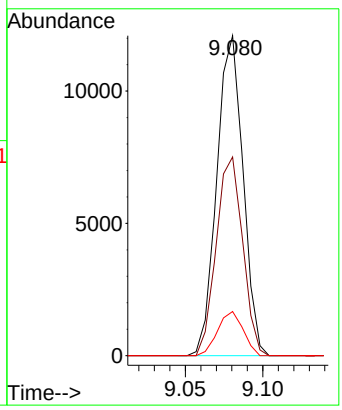


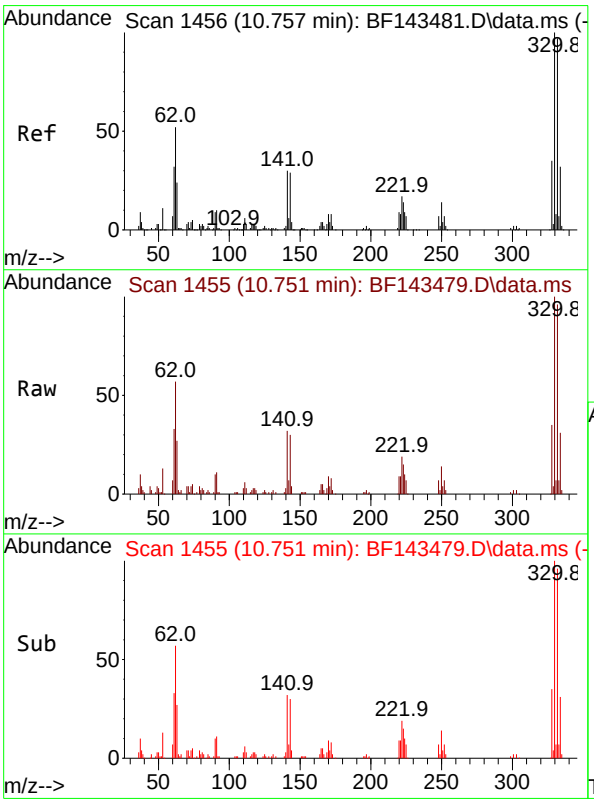
#41
Hexachlorocyclopentadiene
Concen: 10.484 ng
RT: 9.080 min Scan# 11
Delta R.T. -0.001 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:237 Resp: 14243

Ion	Ratio	Lower	Upper
237	100		
235	62.1	42.6	82.6
272	13.8	0.0	33.4

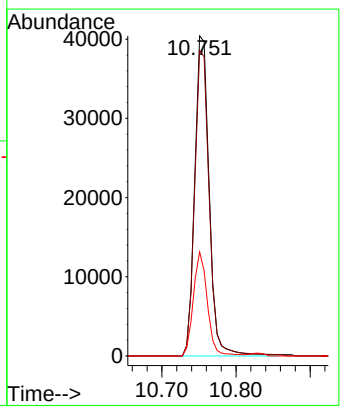


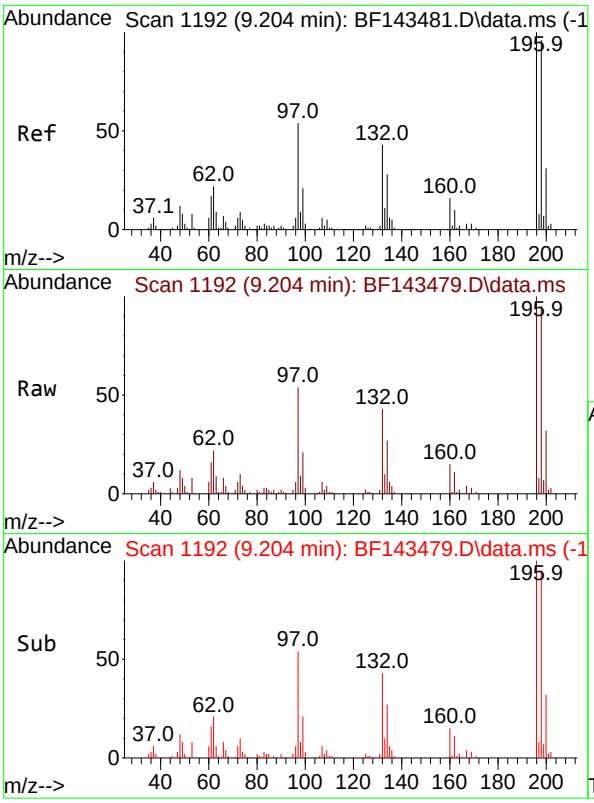


#42
2,4,6-Tribromophenol
Concen: 20.244 ng
RT: 10.751 min Scan# 1455
Delta R.T. -0.012 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Tgt Ion:330 Resp: 54980

Ion	Ratio	Lower	Upper
330	100		
332	96.1	78.0	117.0
141	31.3	23.7	35.5



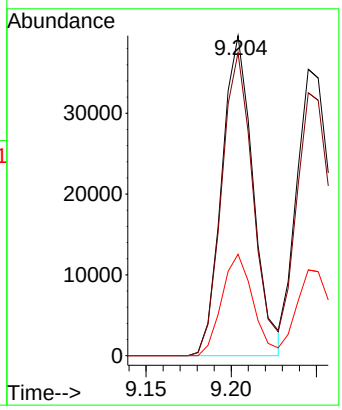


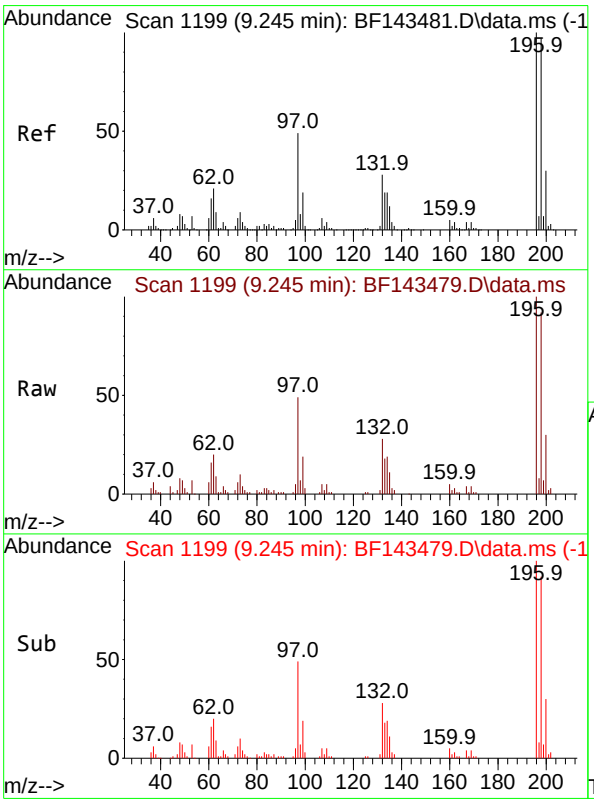
#43
2,4,6-Trichlorophenol
Concen: 9.854 ng
RT: 9.204 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:196 Resp: 50602

Ion	Ratio	Lower	Upper
196	100		
198	94.7	77.0	115.4
200	31.7	24.6	37.0

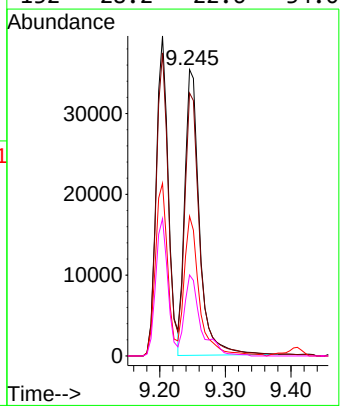


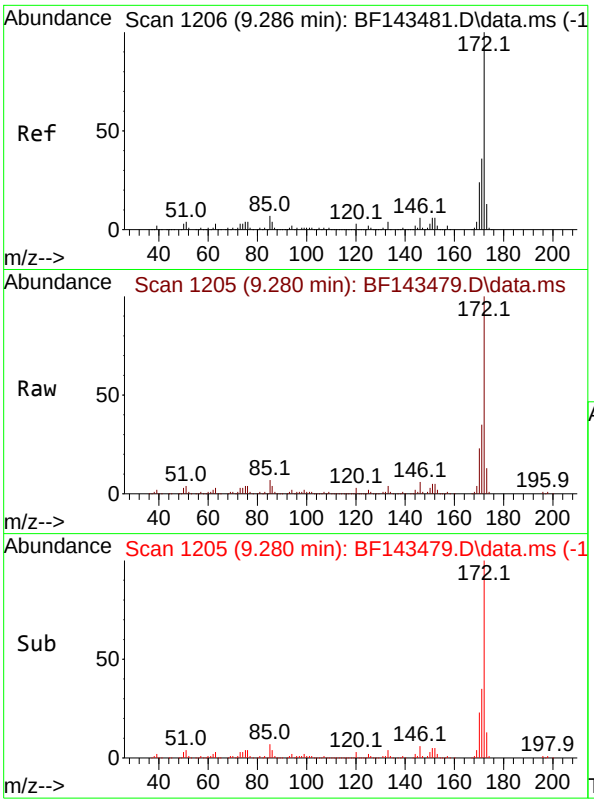


#44
2,4,5-Trichlorophenol
Concen: 9.775 ng
RT: 9.245 min Scan# 1199
Delta R.T. -0.006 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Tgt Ion:196 Resp: 54832

Ion	Ratio	Lower	Upper
196	100		
198	91.8	77.3	115.9
97	48.8	40.0	60.0
132	28.2	22.6	34.0



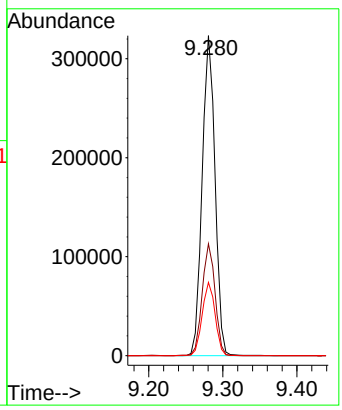


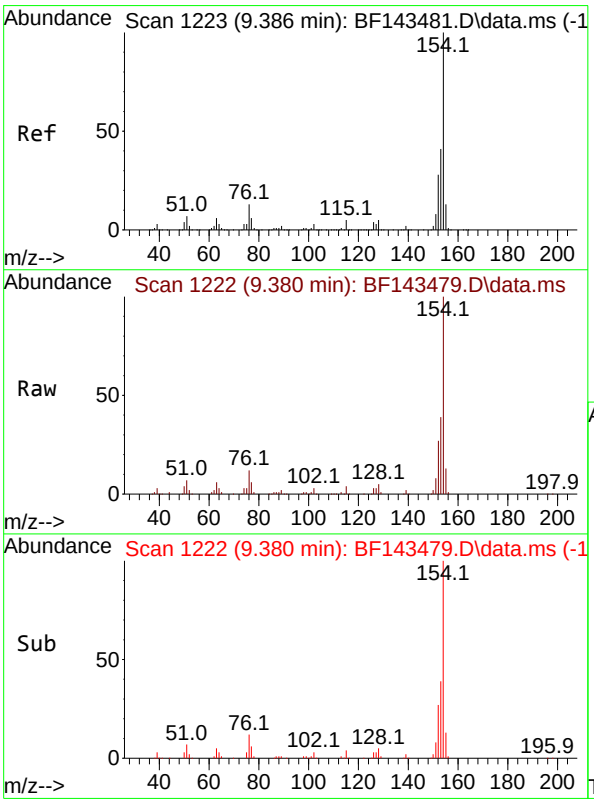
#45
2-Fluorobiphenyl
Concen: 22.085 ng
RT: 9.280 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:172 Resp: 389874

Ion	Ratio	Lower	Upper
172	100		
171	34.9	28.8	43.2
170	22.9	18.8	28.2

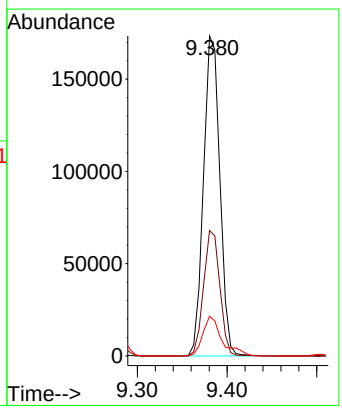


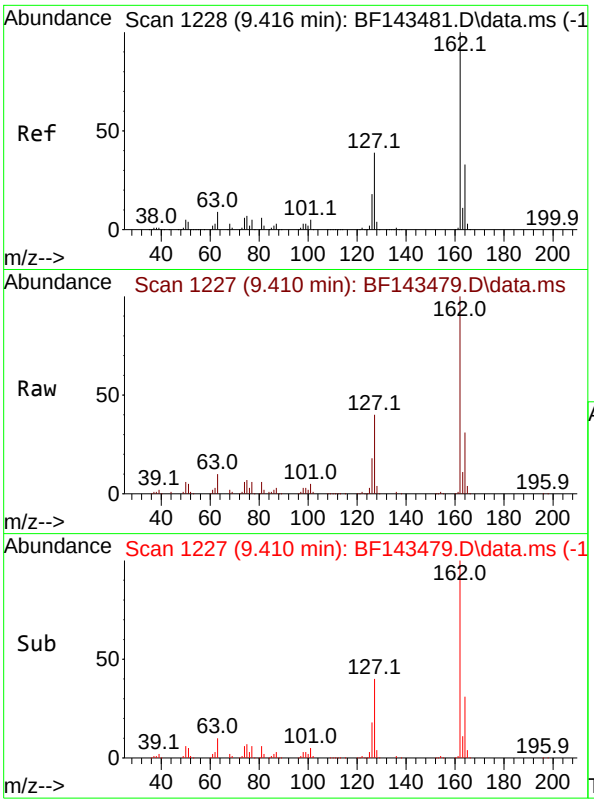


#46
1,1'-Biphenyl
Concen: 10.602 ng
RT: 9.380 min Scan# 1222
Delta R.T. -0.012 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Tgt Ion:154 Resp: 219538

Ion	Ratio	Lower	Upper
154	100		
153	39.2	20.6	60.6
76	12.4	0.0	33.0



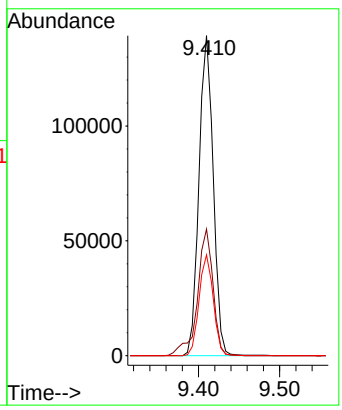


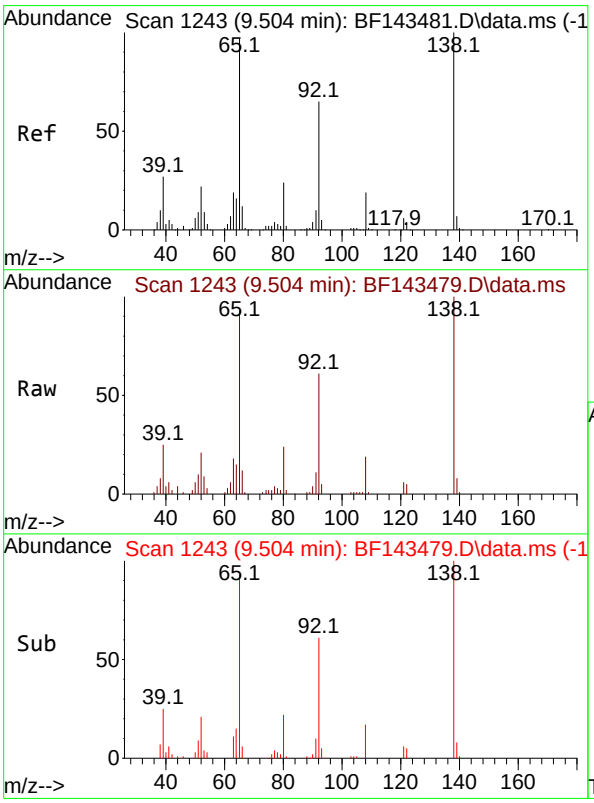
#47
2-Chloronaphthalene
Concen: 10.461 ng
RT: 9.410 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:162 Resp: 169967

Ion	Ratio	Lower	Upper
162	100		
127	39.5	31.8	47.6
164	31.5	26.4	39.6

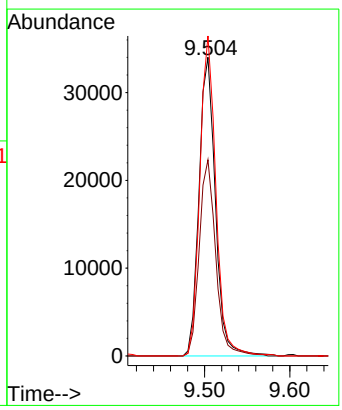


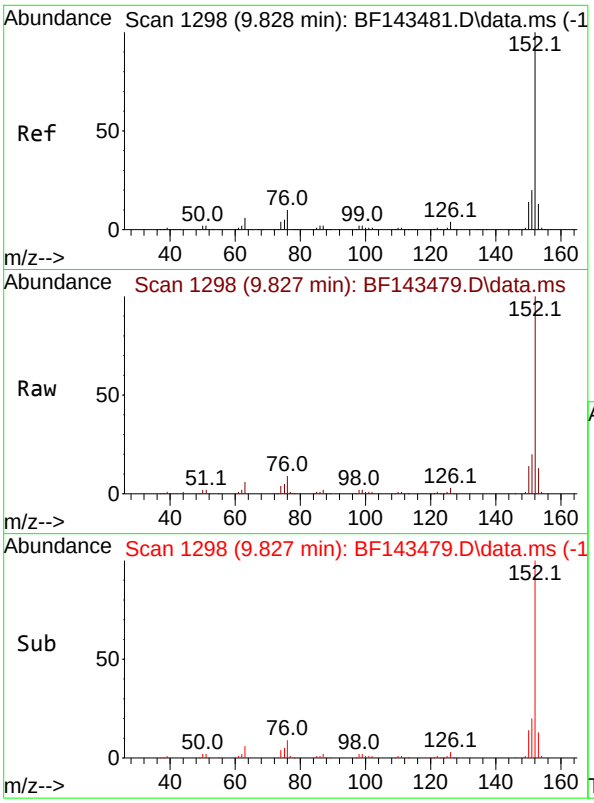


#48
2-Nitroaniline
Concen: 9.596 ng
RT: 9.504 min Scan# 1243
Delta R.T. -0.006 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Tgt Ion: 65 Resp: 45630

Ion	Ratio	Lower	Upper
65	100		
92	65.7	53.8	80.6
138	107.1	82.4	123.6



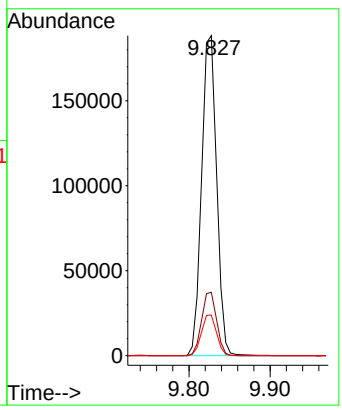


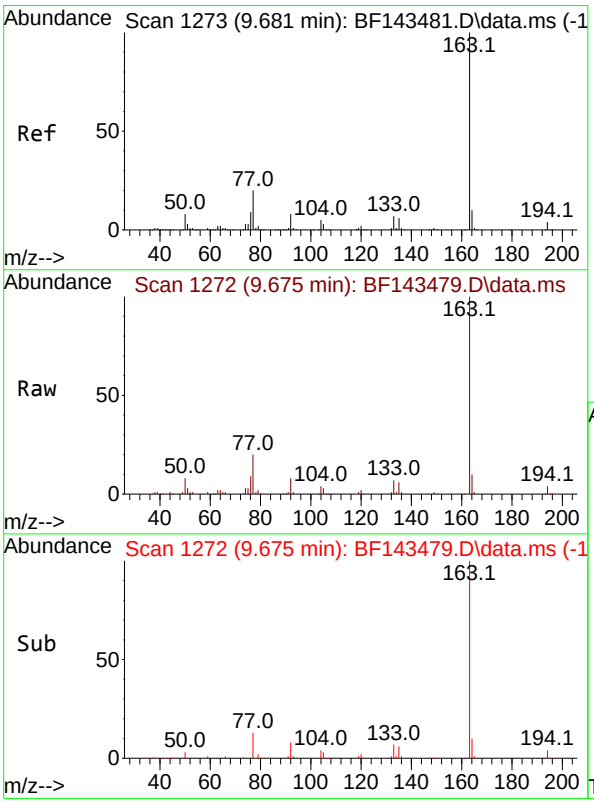
#49
Acenaphthylene
Concen: 10.429 ng
RT: 9.827 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:152 Resp: 242638

Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.2	24.4
153	12.7	10.6	15.8

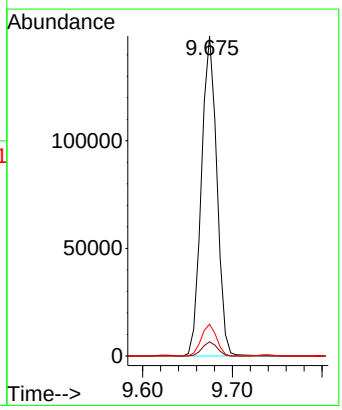


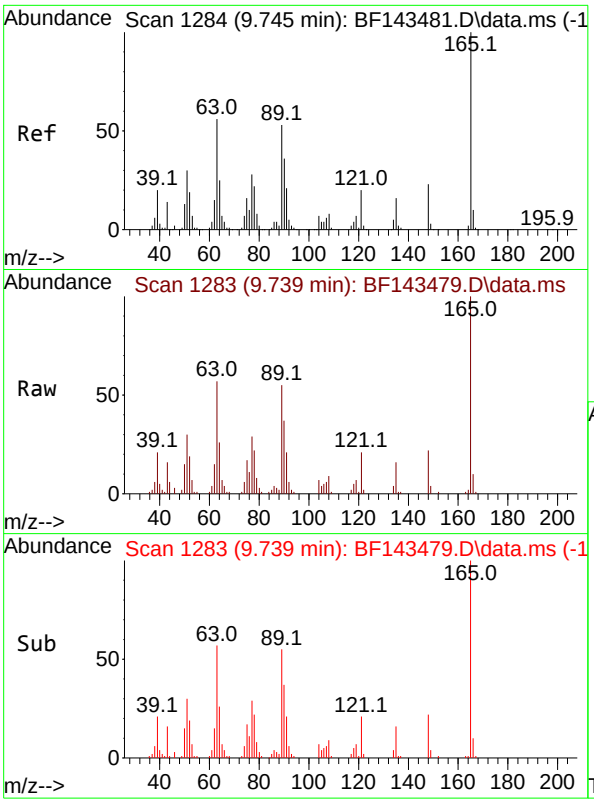


#50
Dimethylphthalate
Concen: 10.120 ng
RT: 9.675 min Scan# 1272
Delta R.T. -0.006 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Tgt Ion:163 Resp: 177820

Ion	Ratio	Lower	Upper
163	100		
194	4.4	3.4	5.0
164	9.9	8.2	12.2



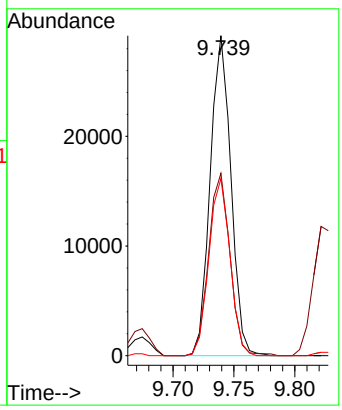


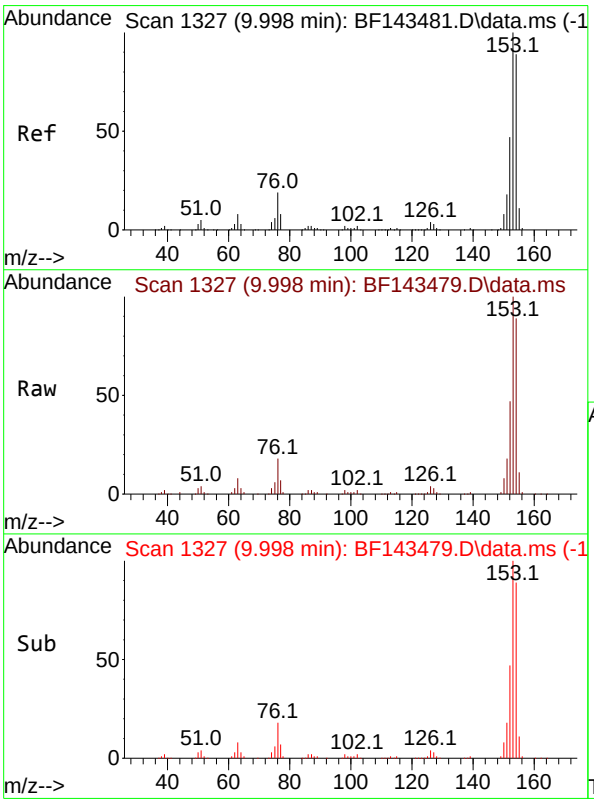
#51
2,6-Dinitrotoluene
Concen: 9.493 ng
RT: 9.739 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:165 Resp: 34570

Ion	Ratio	Lower	Upper
165	100		
63	57.0	45.0	67.6
89	55.4	42.5	63.7

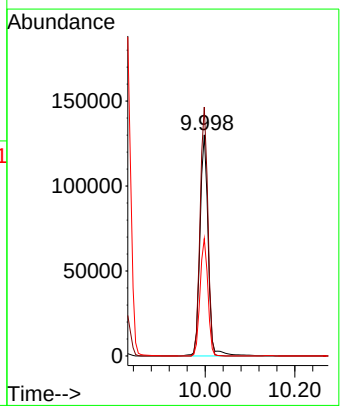


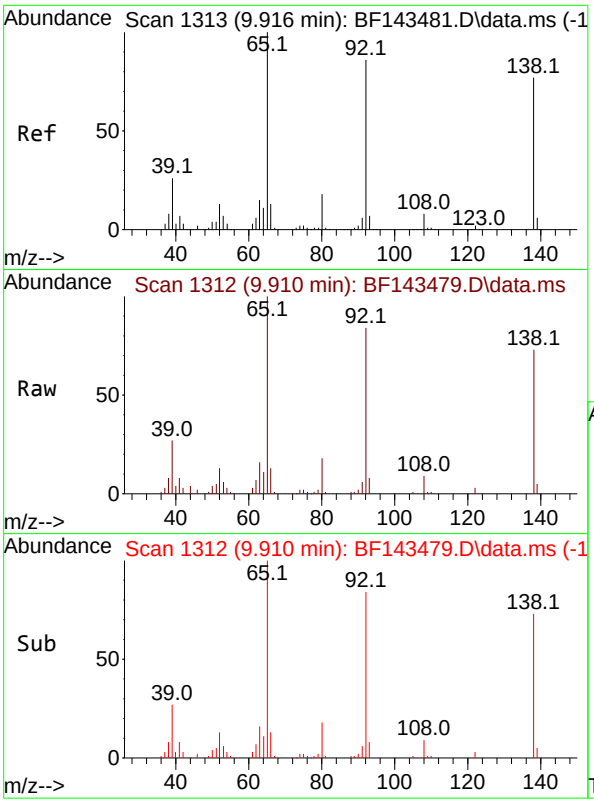


#52
Acenaphthene
Concen: 10.441 ng
RT: 9.998 min Scan# 1327
Delta R.T. -0.006 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Tgt Ion:154 Resp: 164918

Ion	Ratio	Lower	Upper
154	100		
153	112.6	89.5	134.3
152	53.1	42.5	63.7



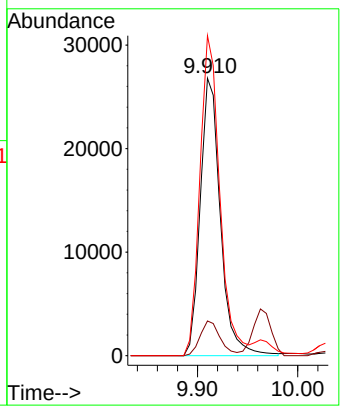


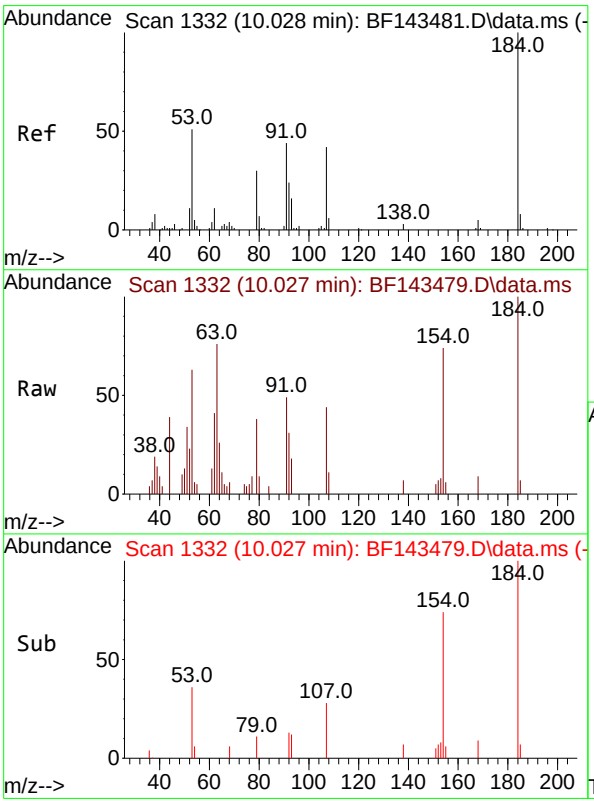
#53
3-Nitroaniline
Concen: 9.523 ng
RT: 9.910 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:138 Resp: 37475

Ion	Ratio	Lower	Upper
138	100		
108	12.5	8.6	13.0
92	115.3	89.8	134.8

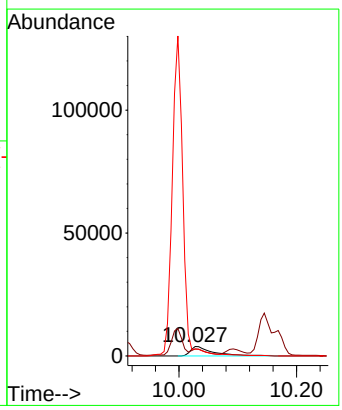


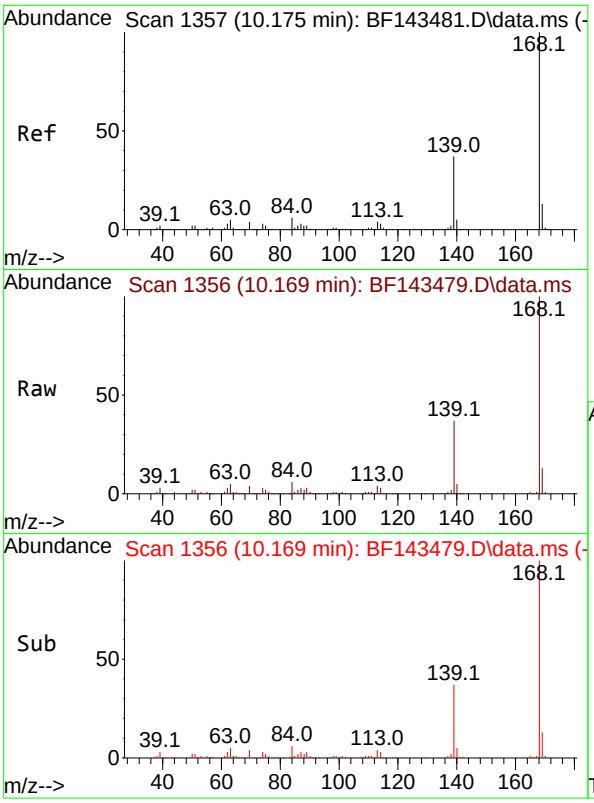


#54
2,4-Dinitrophenol
Concen: 10.295 ng
RT: 10.027 min Scan# 1332
Delta R.T. -0.001 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Tgt Ion:184 Resp: 10431

Ion	Ratio	Lower	Upper
184	100		
63	75.6	52.6	78.8
154	73.9	51.0	76.4



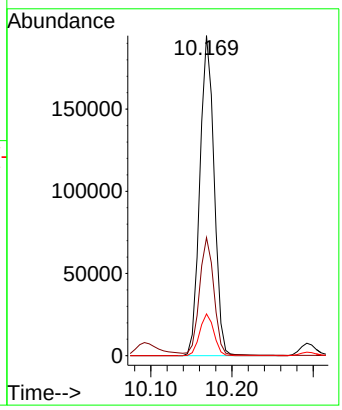


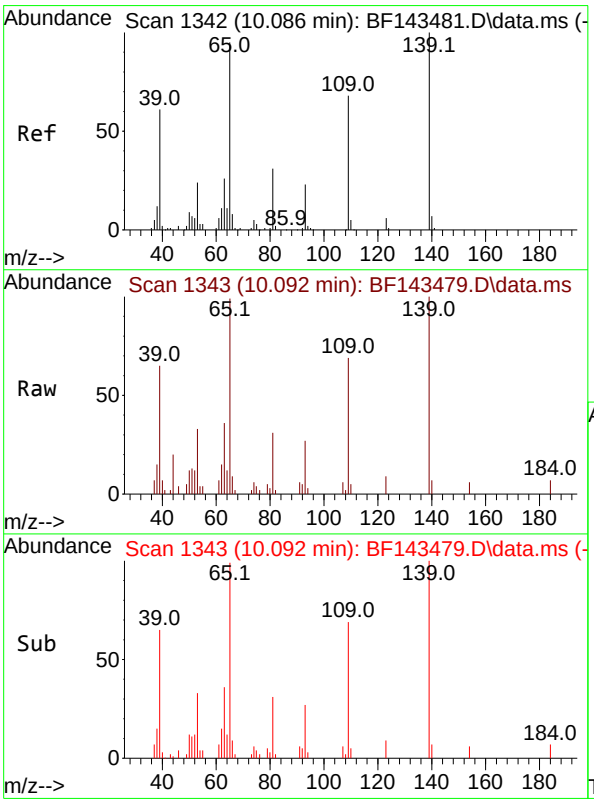
#55
Dibenzofuran
Concen: 10.528 ng
RT: 10.169 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:168 Resp: 237099

Ion	Ratio	Lower	Upper
168	100		
139	36.9	29.8	44.6
169	13.1	10.8	16.2

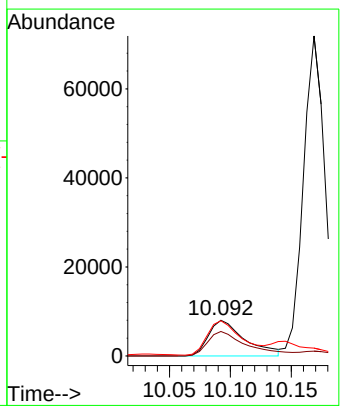


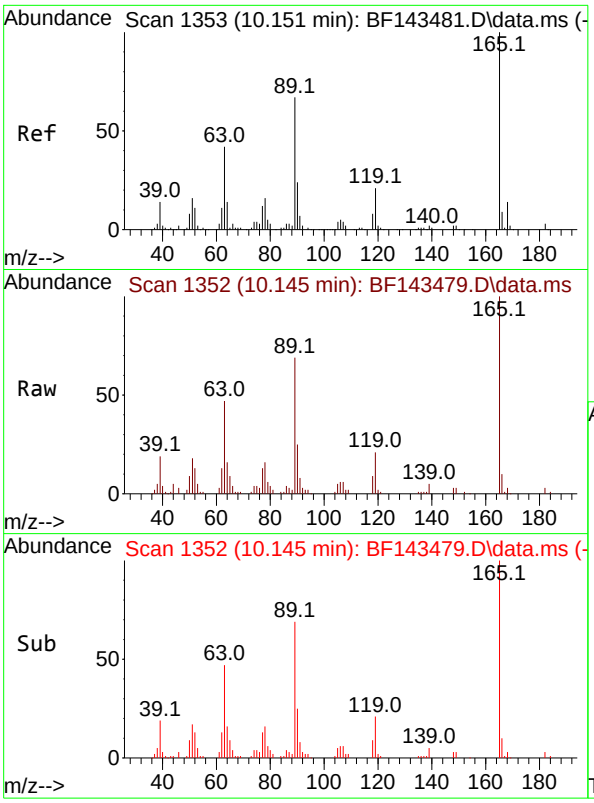


#56
4-Nitrophenol
Concen: 7.146 ng
RT: 10.092 min Scan# 1343
Delta R.T. 0.006 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Tgt Ion:139 Resp: 16733

Ion	Ratio	Lower	Upper
139	100		
109	68.9	48.2	88.2
65	98.8	75.8	115.8



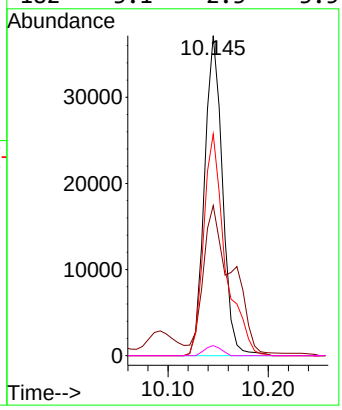


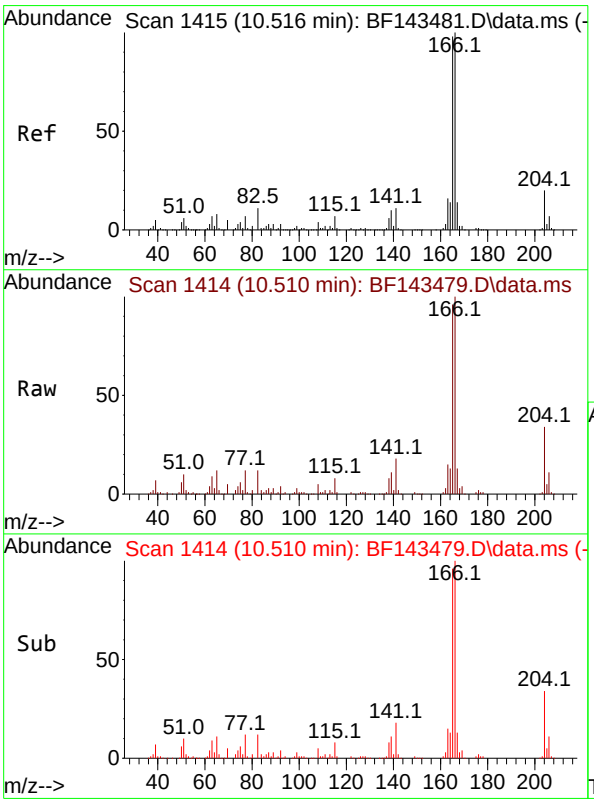
#57
2,4-Dinitrotoluene
Concen: 9.534 ng
RT: 10.145 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:165 Resp: 46361

Ion	Ratio	Lower	Upper
165	100		
63	46.9	34.9	52.3
89	69.2	53.3	79.9
182	3.1	2.3	3.5

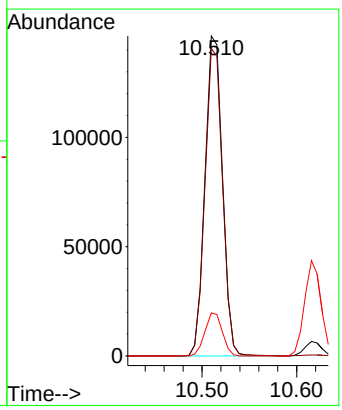


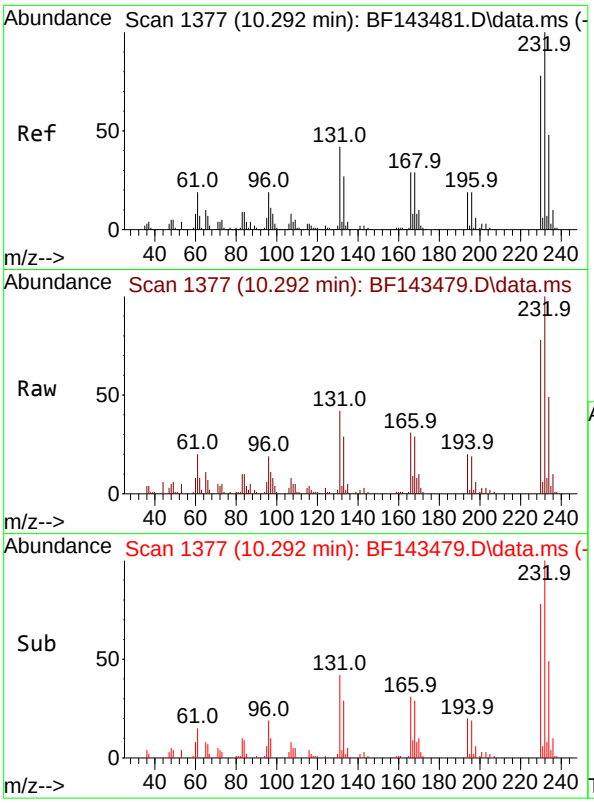


#58
Fluorene
Concen: 10.820 ng
RT: 10.510 min Scan# 1414
Delta R.T. -0.012 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Tgt Ion:166 Resp: 187535

Ion	Ratio	Lower	Upper
166	100		
165	96.1	78.3	117.5
167	13.4	11.0	16.4



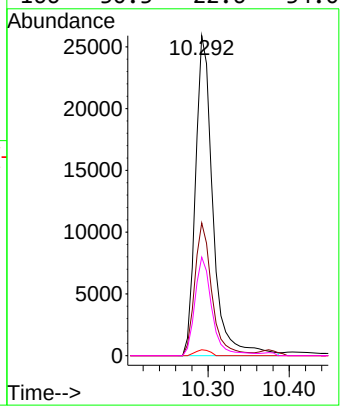


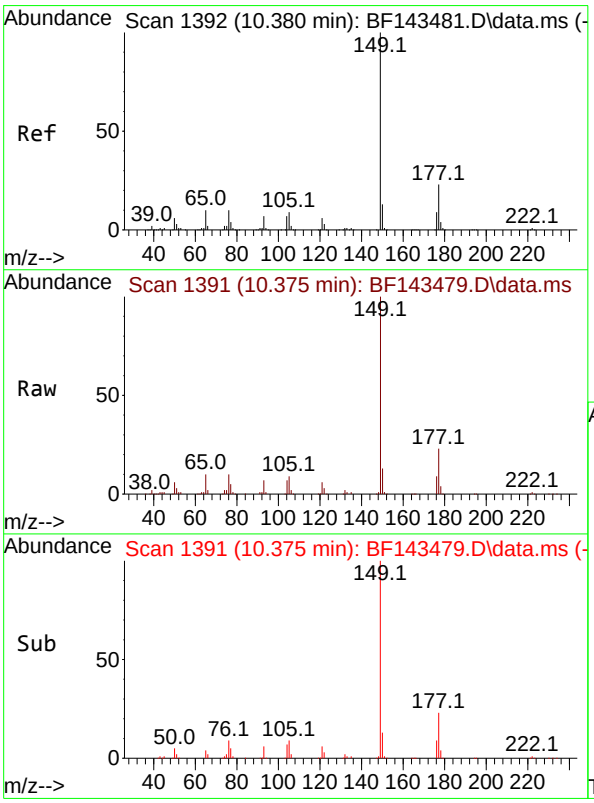
#59
2,3,4,6-Tetrachlorophenol
Concen: 9.253 ng
RT: 10.292 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:232 Resp: 38561

Ion	Ratio	Lower	Upper
232	100		
131	41.1	32.7	49.1
130	1.6	1.6	2.4#
166	30.3	22.6	34.0

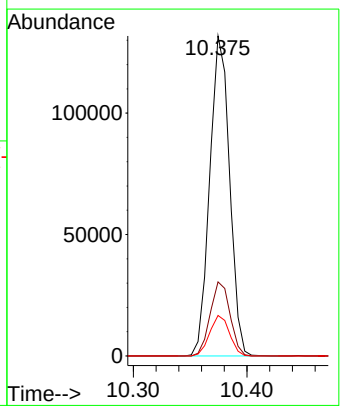


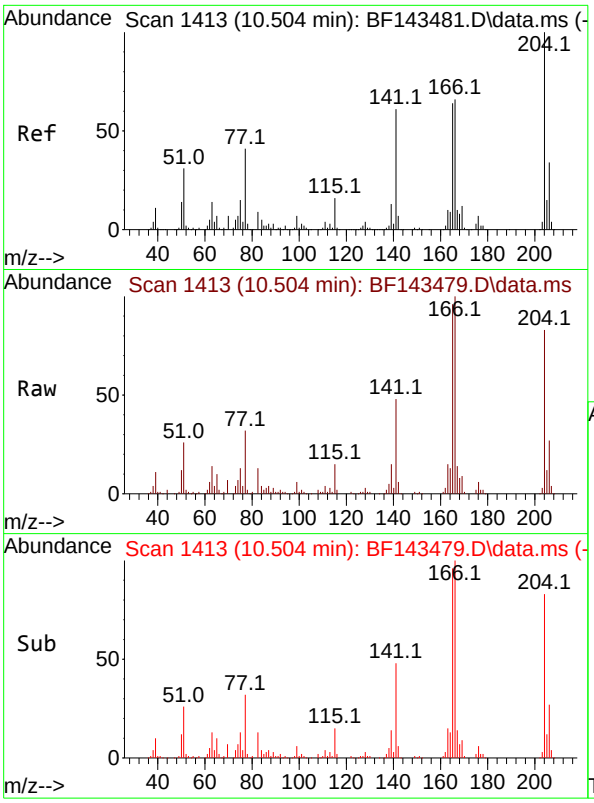


#60
Diethylphthalate
Concen: 10.156 ng
RT: 10.375 min Scan# 1391
Delta R.T. -0.012 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Tgt Ion:149 Resp: 160006

Ion	Ratio	Lower	Upper
149	100		
177	23.2	18.3	27.5
150	12.7	10.3	15.5



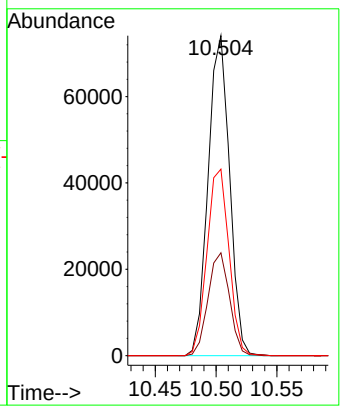


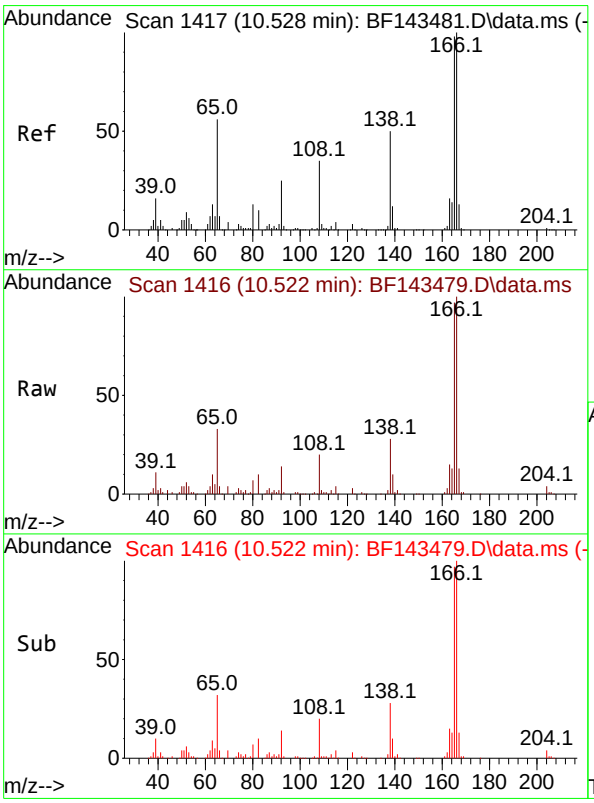
#61
4-Chlorophenyl-phenylether
Concen: 10.494 ng
RT: 10.504 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:204 Resp: 90965

Ion	Ratio	Lower	Upper
204	100		
206	32.1	27.0	40.4
141	58.3	48.7	73.1

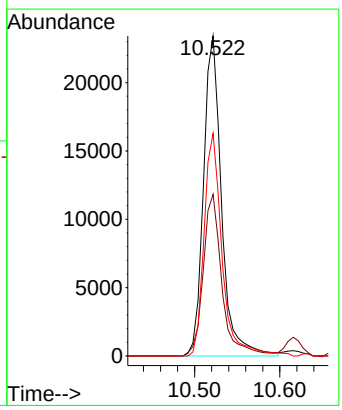


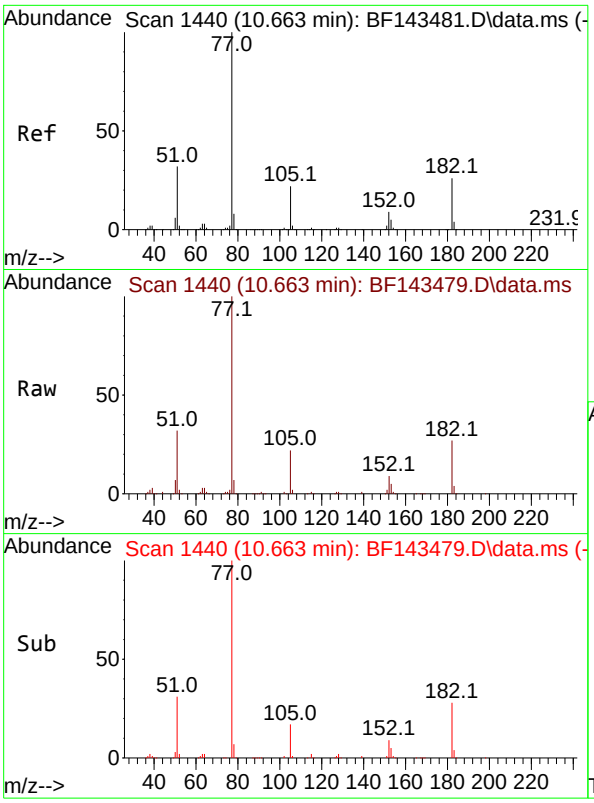


#62
4-Nitroaniline
Concen: 9.550 ng
RT: 10.522 min Scan# 1416
Delta R.T. -0.018 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Tgt Ion:138 Resp: 34518

Ion	Ratio	Lower	Upper
138	100		
92	50.5	29.3	69.3
108	69.5	50.7	90.7



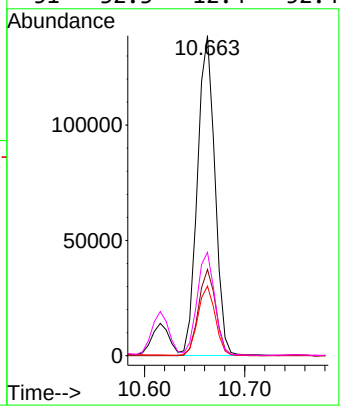


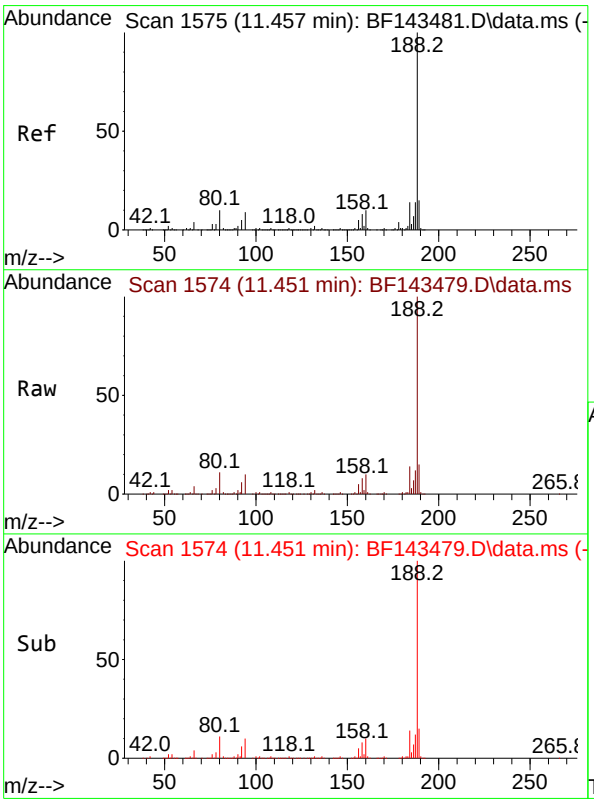
#63
Azobenzene
Concen: 10.307 ng
RT: 10.663 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion: 77 Resp: 168373

Ion	Ratio	Lower	Upper
77	100		
182	26.9	6.2	46.2
105	21.8	2.2	42.2
51	32.3	12.4	52.4

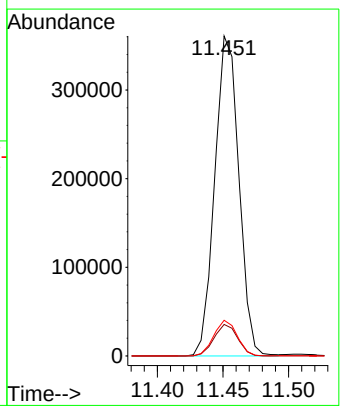


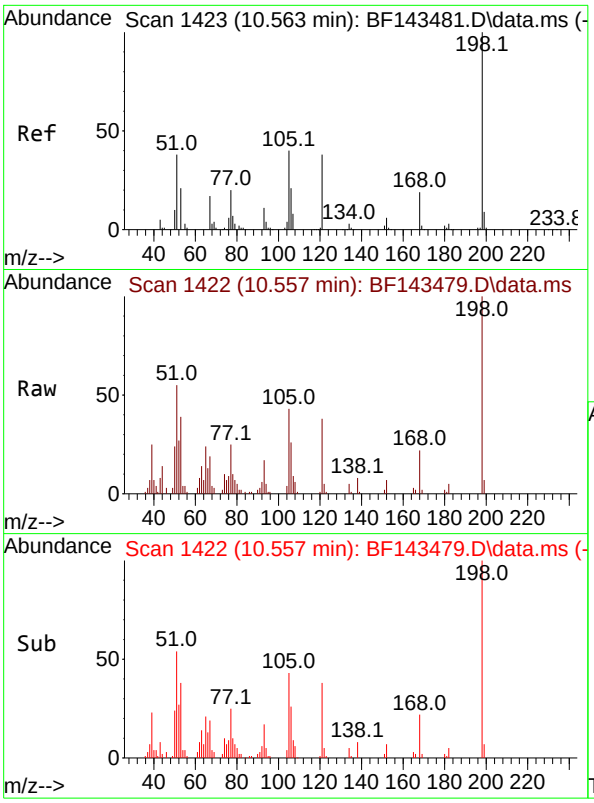


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.451 min Scan# 1574
Delta R.T. -0.006 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Tgt Ion:188 Resp: 461672

Ion	Ratio	Lower	Upper
188	100		
94	9.9	7.4	11.2
80	11.1	8.2	12.4



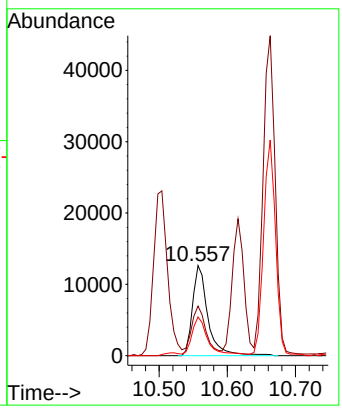


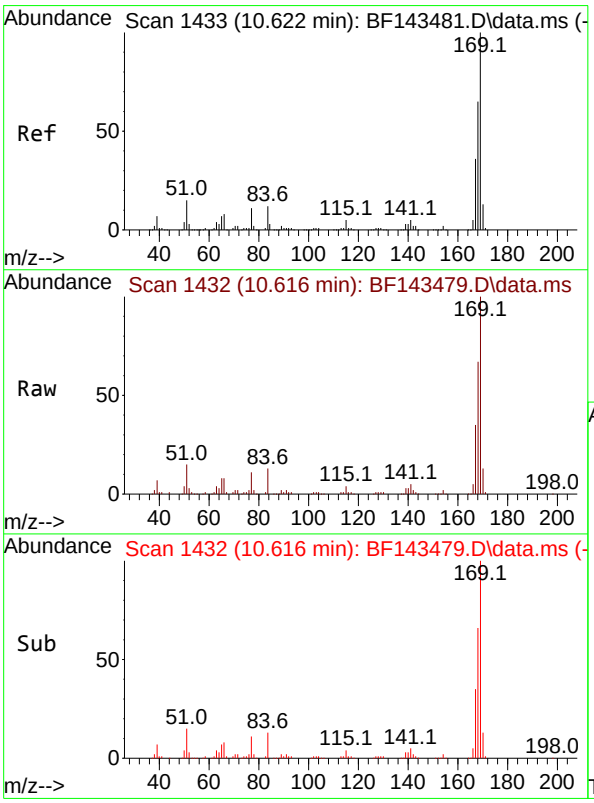
#65
4,6-Dinitro-2-methylphenol
Concen: 7.552 ng
RT: 10.557 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:198 Resp: 19659

Ion	Ratio	Lower	Upper
198	100		
51	55.1	29.6	69.6
105	43.0	21.5	61.5

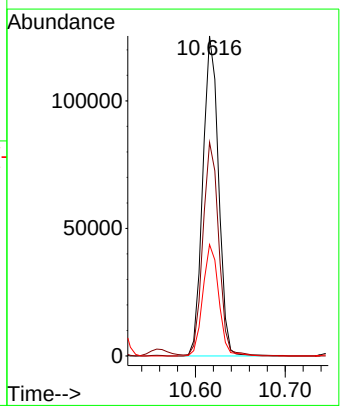


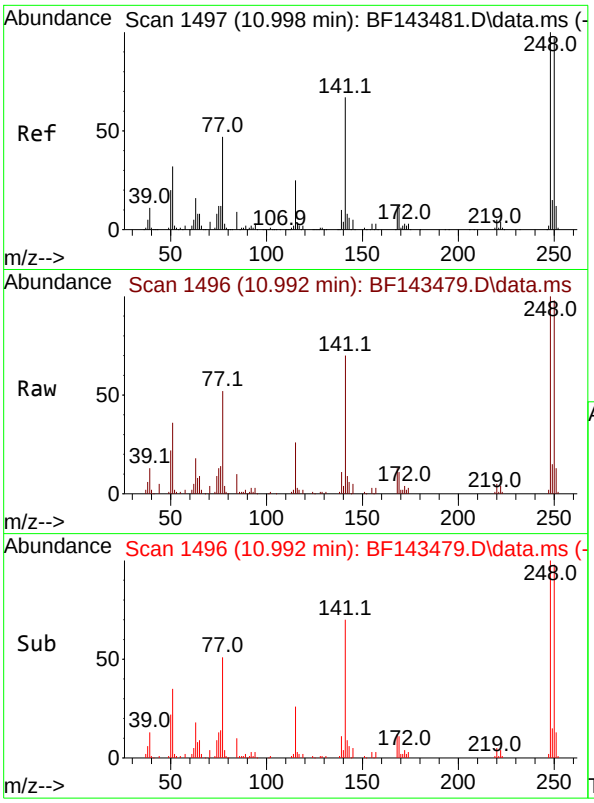


#66
n-Nitrosodiphenylamine
Concen: 10.271 ng
RT: 10.616 min Scan# 1432
Delta R.T. -0.012 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Tgt Ion:169 Resp: 152607

Ion	Ratio	Lower	Upper
169	100		
168	66.7	52.4	78.6
167	34.8	28.9	43.3



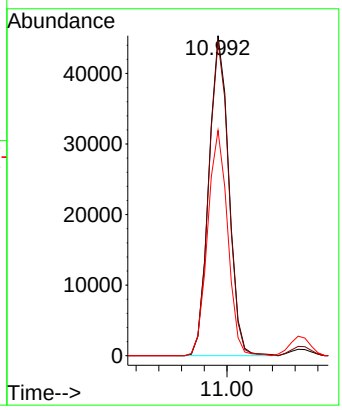


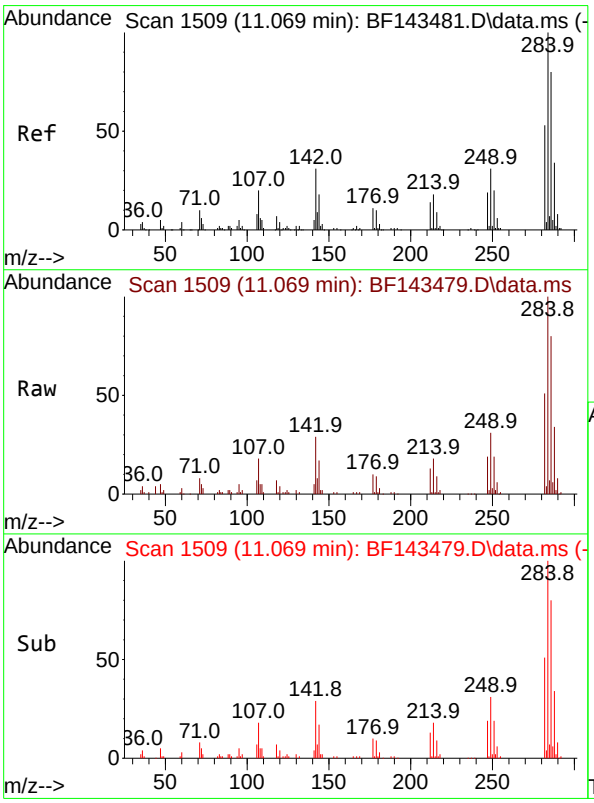
#67
4-Bromophenyl-phenylether
Concen: 10.043 ng
RT: 10.992 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:248 Resp: 55324

Ion	Ratio	Lower	Upper
248	100		
250	98.3	77.8	116.8
141	70.4	54.0	81.0

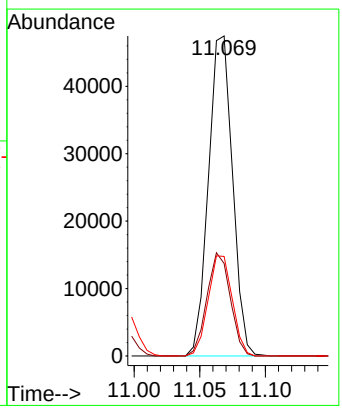


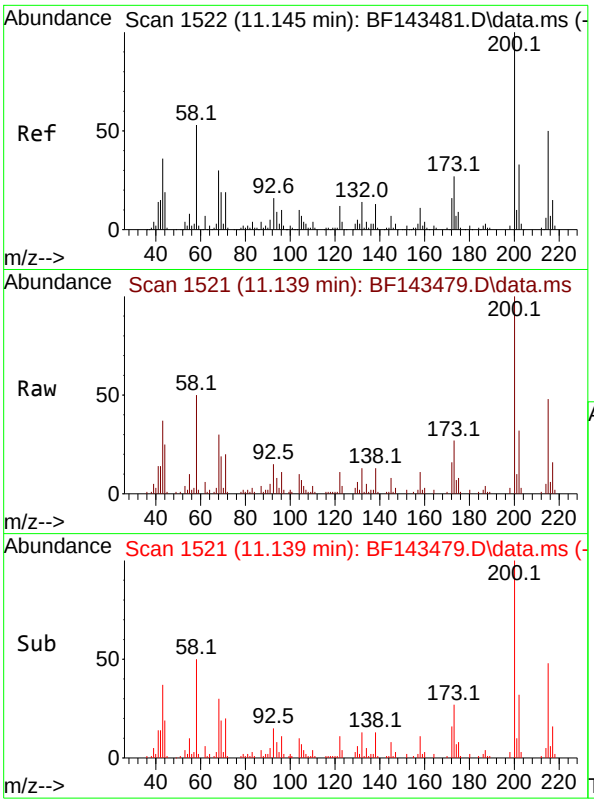


#68
Hexachlorobenzene
Concen: 10.202 ng
RT: 11.069 min Scan# 1509
Delta R.T. -0.006 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Tgt Ion:284 Resp: 60577

Ion	Ratio	Lower	Upper
284	100		
142	28.9	24.4	36.6
249	31.1	25.0	37.6



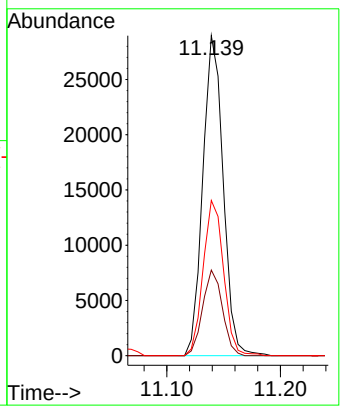


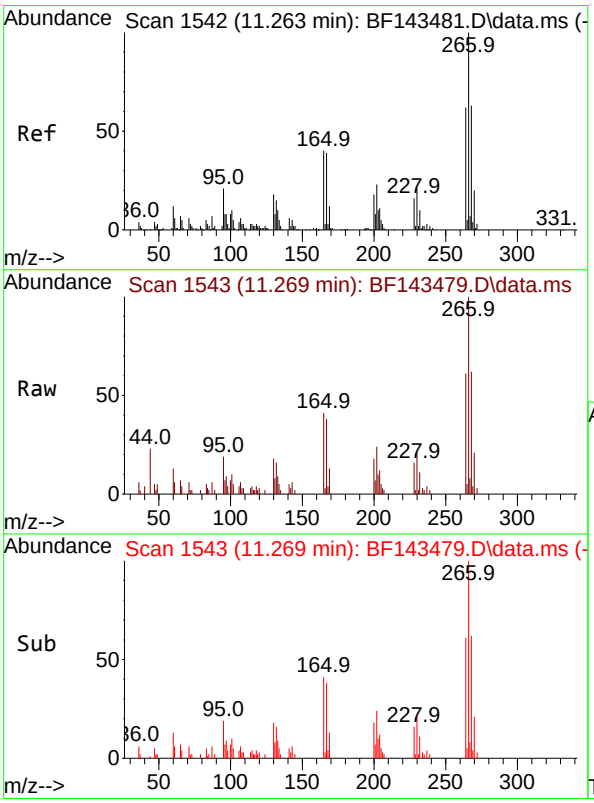
#69
Atrazine
Concen: 9.406 ng
RT: 11.139 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:200 Resp: 36074

Ion	Ratio	Lower	Upper
200	100		
173	26.7	6.9	46.9
215	48.5	30.0	70.0

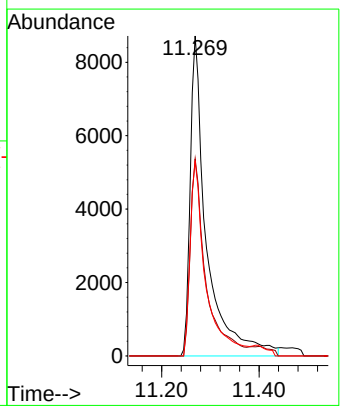


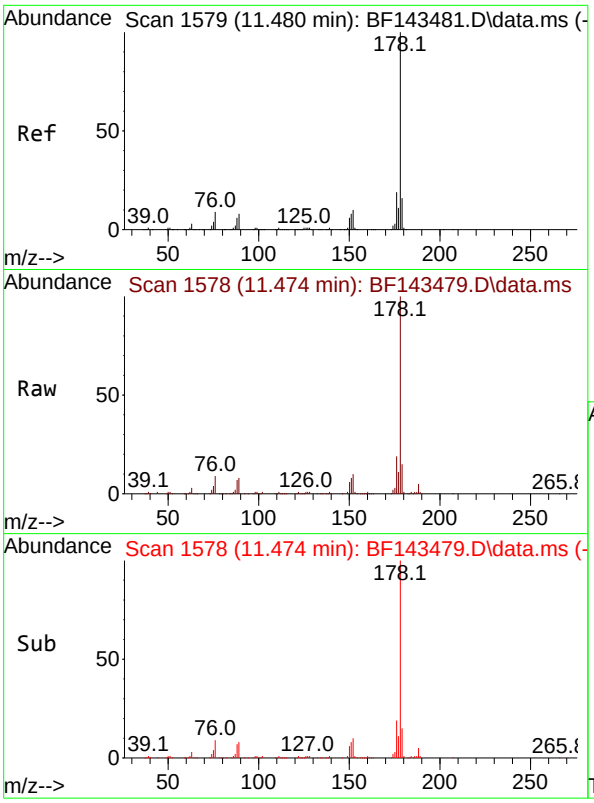


#70
Pentachlorophenol
Concen: 7.492 ng
RT: 11.269 min Scan# 1543
Delta R.T. -0.000 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Tgt Ion:266 Resp: 20373

Ion	Ratio	Lower	Upper
266	100		
268	61.6	50.5	75.7
264	60.9	49.8	74.8



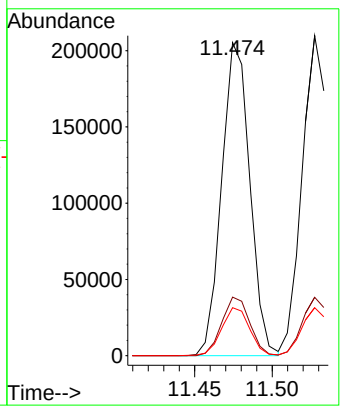


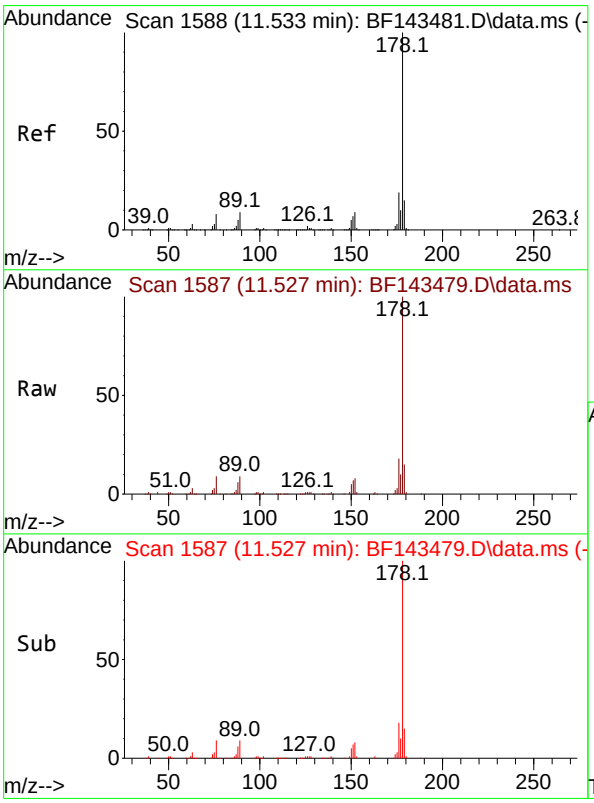
#71
Phenanthrene
Concen: 10.486 ng
RT: 11.474 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:178 Resp: 259254

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.5	23.3
179	15.3	12.5	18.7

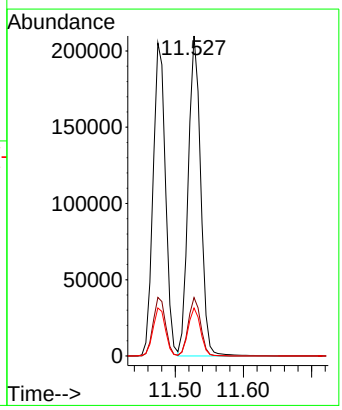


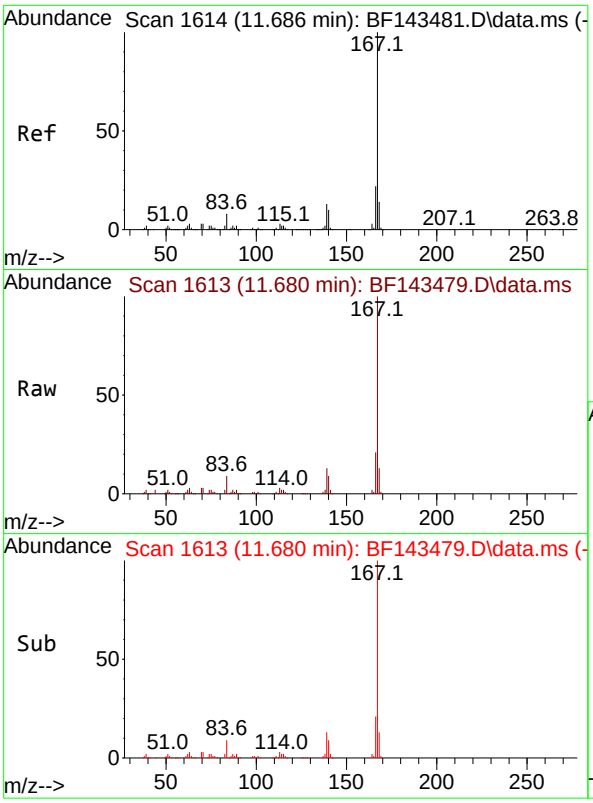


#72
Anthracene
Concen: 10.541 ng
RT: 11.527 min Scan# 1587
Delta R.T. -0.006 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Tgt Ion:178 Resp: 263998

Ion	Ratio	Lower	Upper
178	100		
176	18.2	15.0	22.4
179	15.0	12.3	18.5



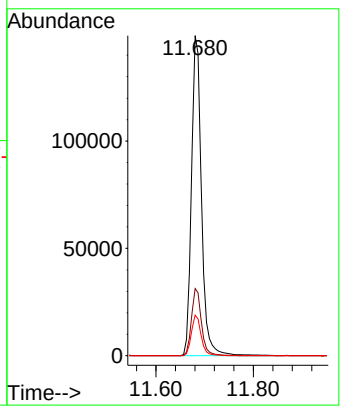


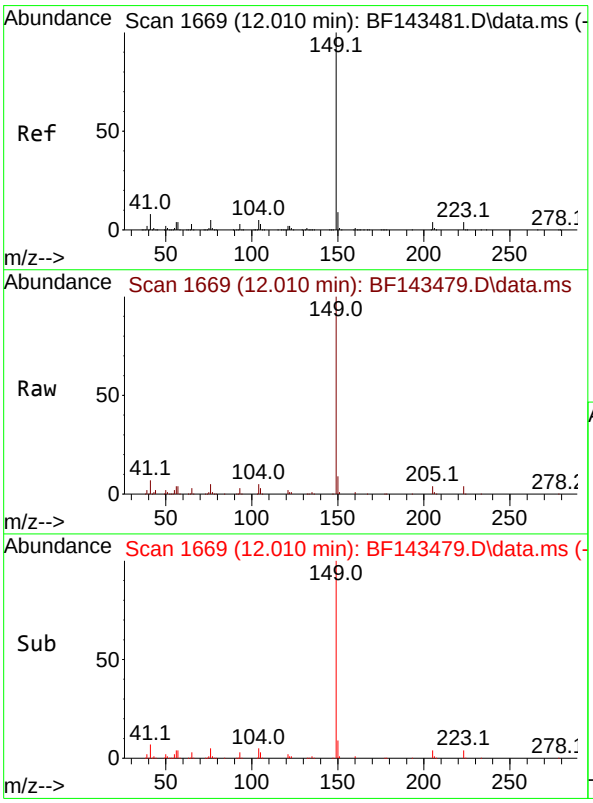
#73
Carbazole
Concen: 10.400 ng
RT: 11.680 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:167 Resp: 213439

Ion	Ratio	Lower	Upper
167	100		
166	20.9	17.3	25.9
139	12.6	10.0	15.0

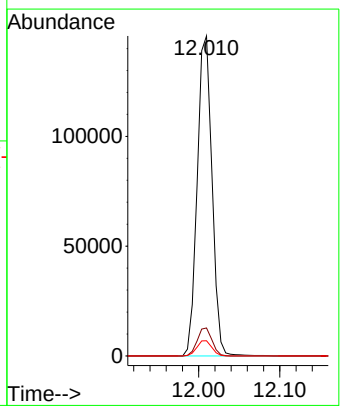


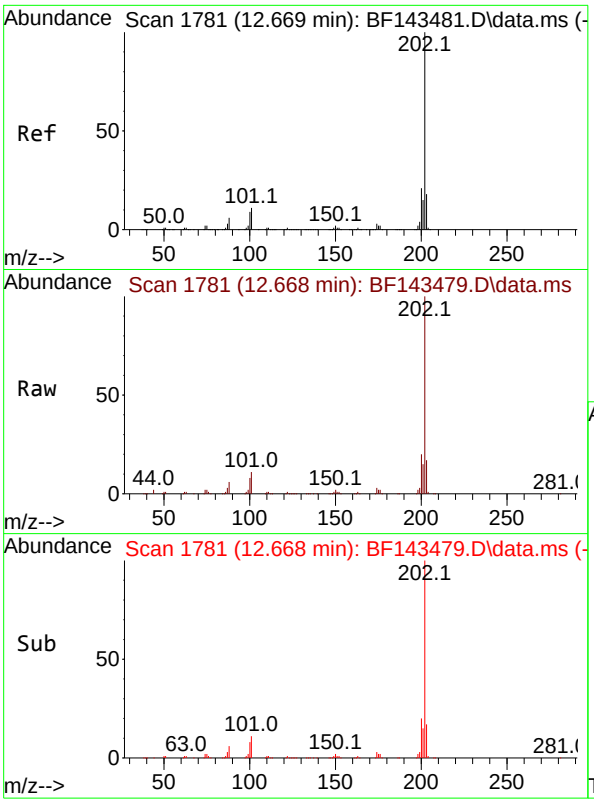


#74
Di-n-butylphthalate
Concen: 9.642 ng
RT: 12.010 min Scan# 1669
Delta R.T. -0.000 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Tgt Ion:149 Resp: 184596

Ion	Ratio	Lower	Upper
149	100		
150	8.8	7.2	10.8
104	4.8	3.6	5.4



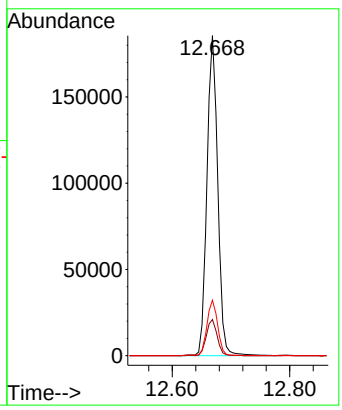


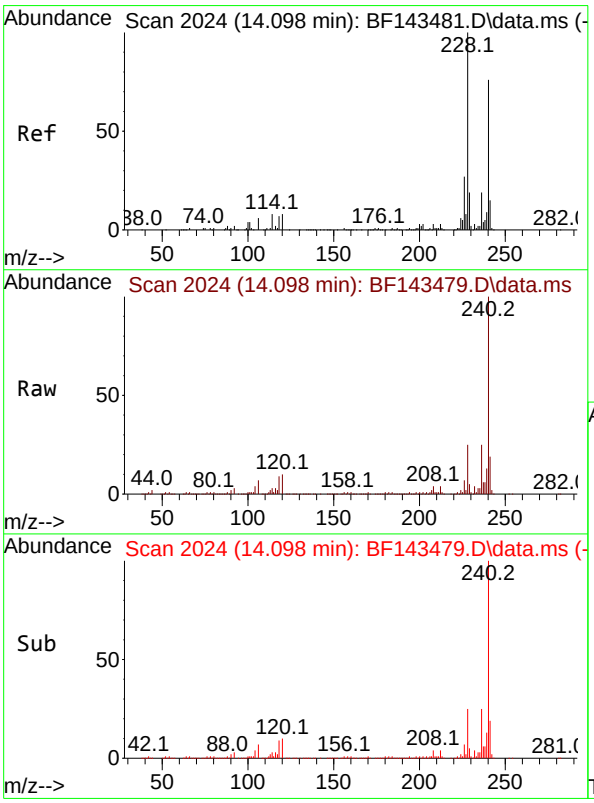
#75
Fluoranthene
Concen: 10.618 ng
RT: 12.668 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:202 Resp: 235543

Ion	Ratio	Lower	Upper
202	100		
101	11.3	0.0	31.3
203	17.4	0.0	37.9

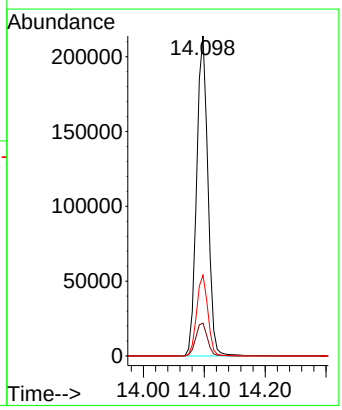


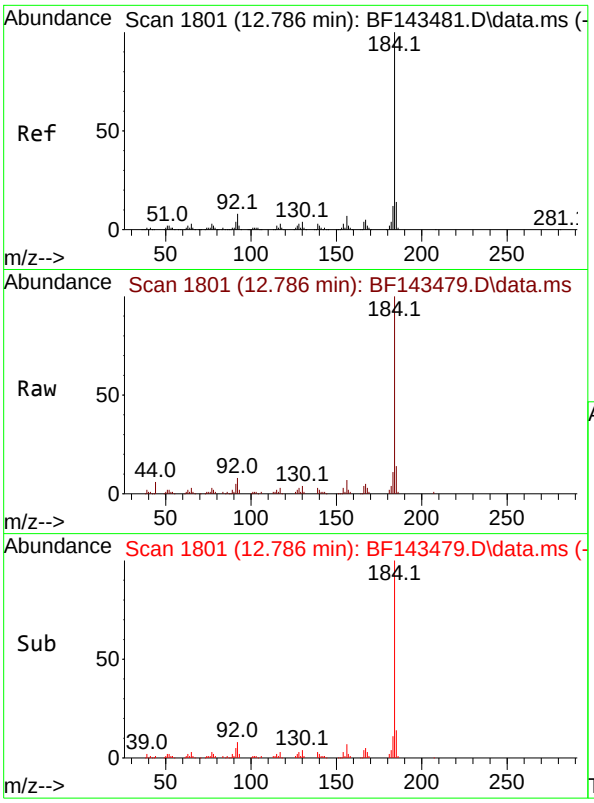


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.098 min Scan# 2024
Delta R.T. -0.006 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Tgt Ion:240 Resp: 274933

Ion	Ratio	Lower	Upper
240	100		
120	10.3	8.6	12.8
236	25.2	20.4	30.6



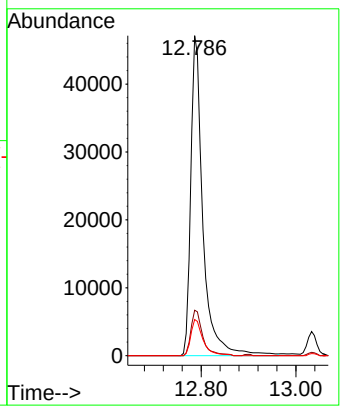


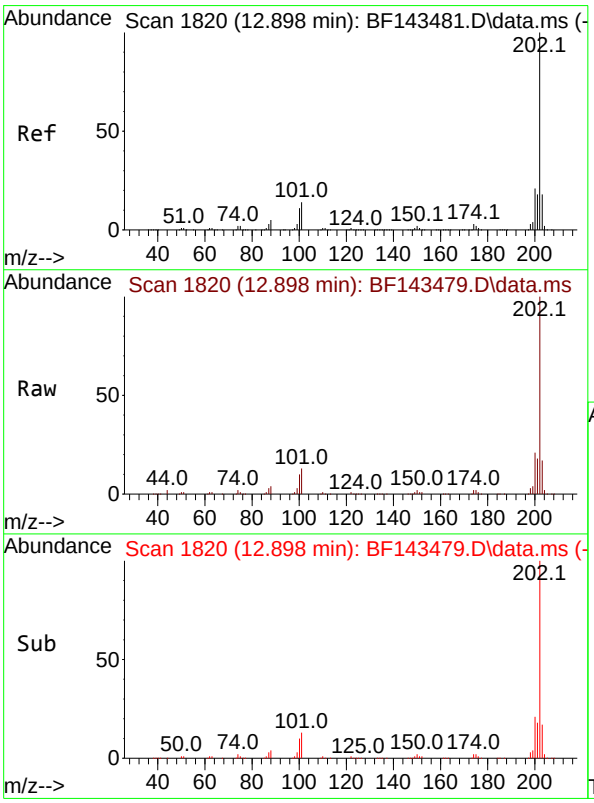
#77
Benzidine
Concen: 12.549 ng
RT: 12.786 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:184 Resp: 84040

Ion	Ratio	Lower	Upper
184	100		
185	14.2	11.3	16.9
183	11.3	9.5	14.3

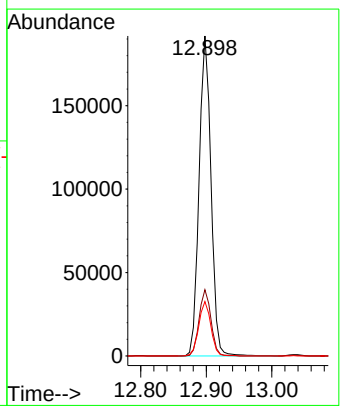


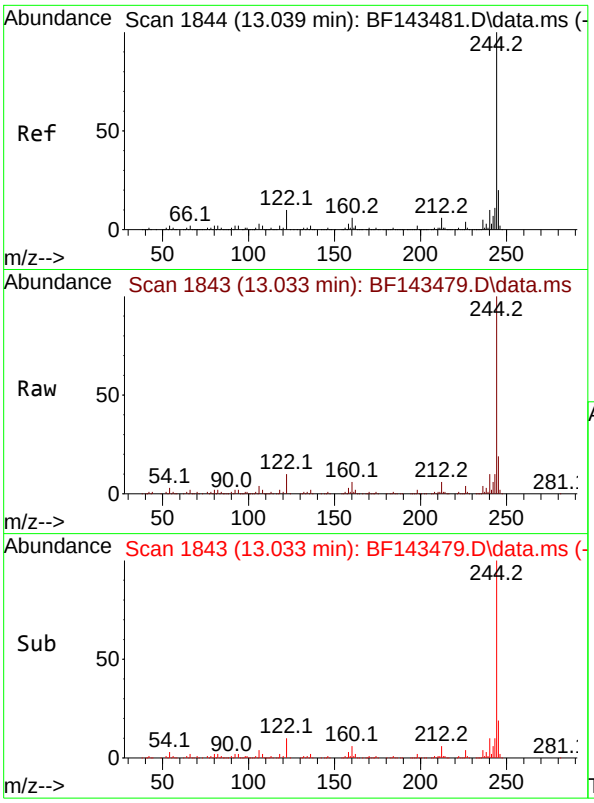


#78
Pyrene
Concen: 10.747 ng
RT: 12.898 min Scan# 1820
Delta R.T. -0.006 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Tgt Ion:202 Resp: 243049

Ion	Ratio	Lower	Upper
202	100		
200	20.7	17.0	25.4
203	17.0	14.3	21.5



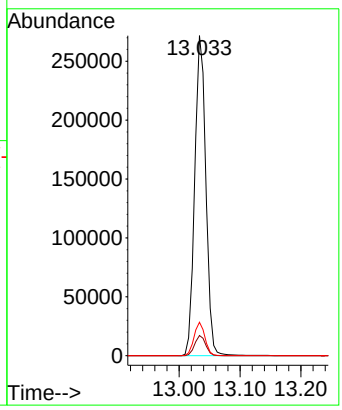


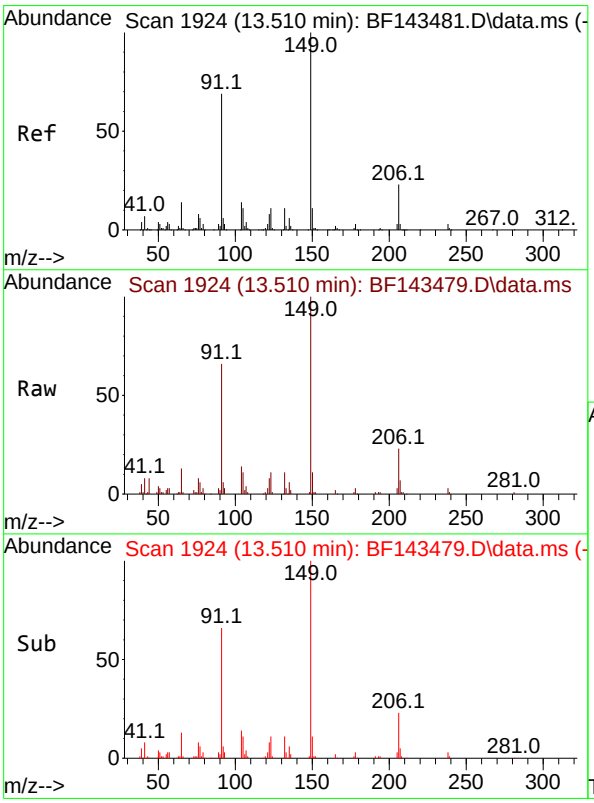
#79
Terphenyl-d14
Concen: 21.893 ng
RT: 13.033 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:244 Resp: 344924

Ion	Ratio	Lower	Upper
244	100		
212	6.3	5.2	7.8
122	10.4	7.9	11.9

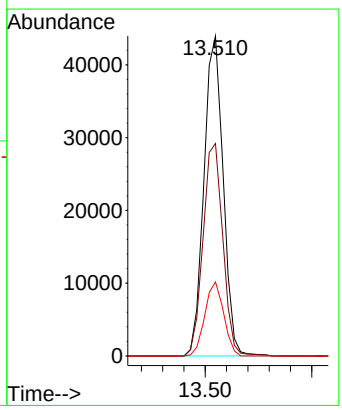


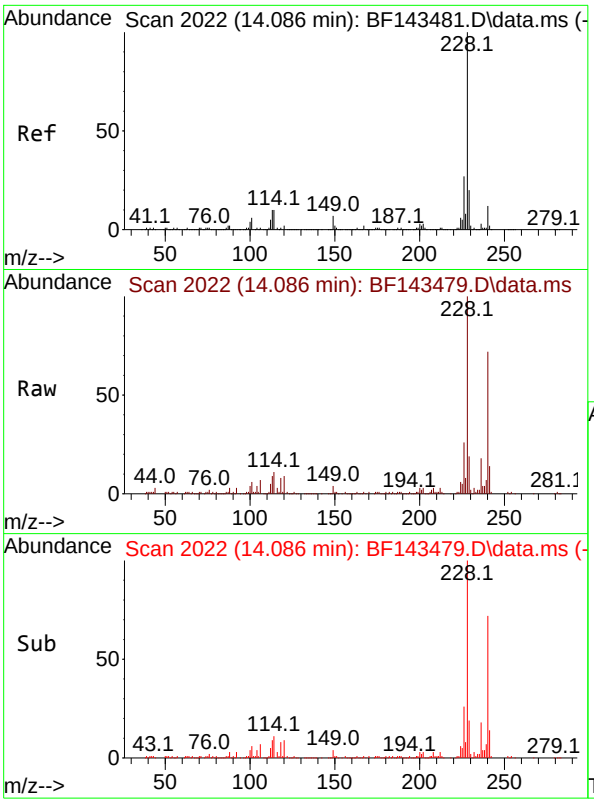


#80
Butylbenzylphthalate
Concen: 8.939 ng
RT: 13.510 min Scan# 1924
Delta R.T. -0.000 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Tgt Ion:149 Resp: 55227

Ion	Ratio	Lower	Upper
149	100		
91	66.4	55.3	82.9
206	23.1	18.2	27.4



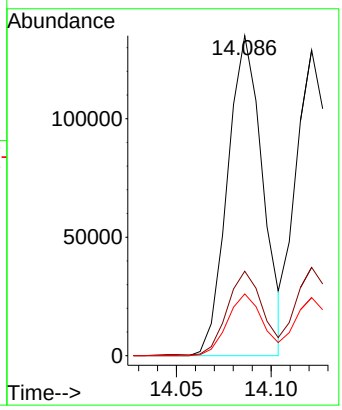


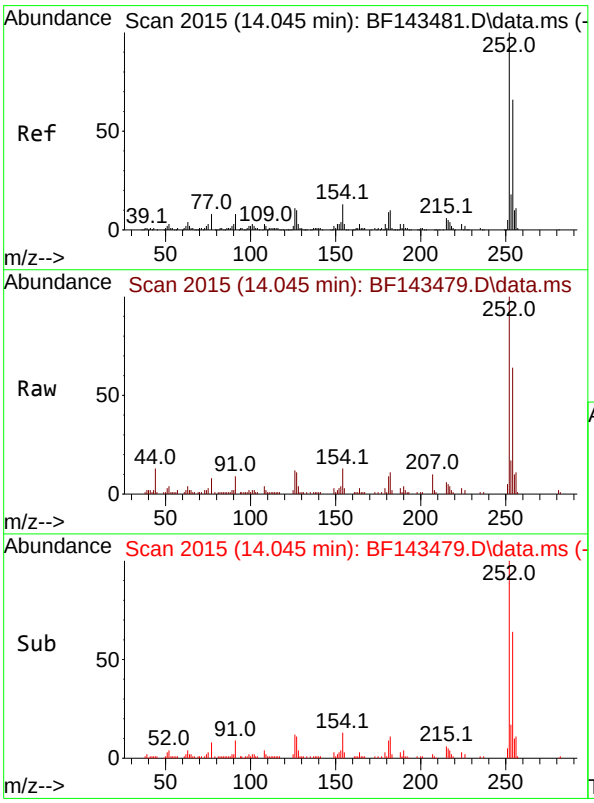
#81
Benzo(a)anthracene
Concen: 9.898 ng
RT: 14.086 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:228 Resp: 175192

Ion	Ratio	Lower	Upper
228	100		
226	26.4	21.7	32.5
229	19.3	15.7	23.5

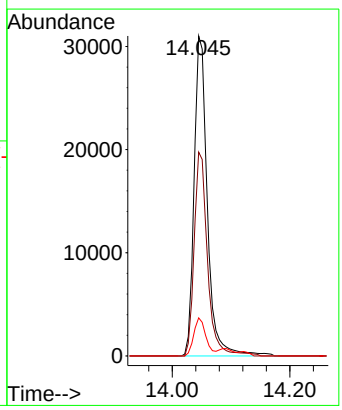


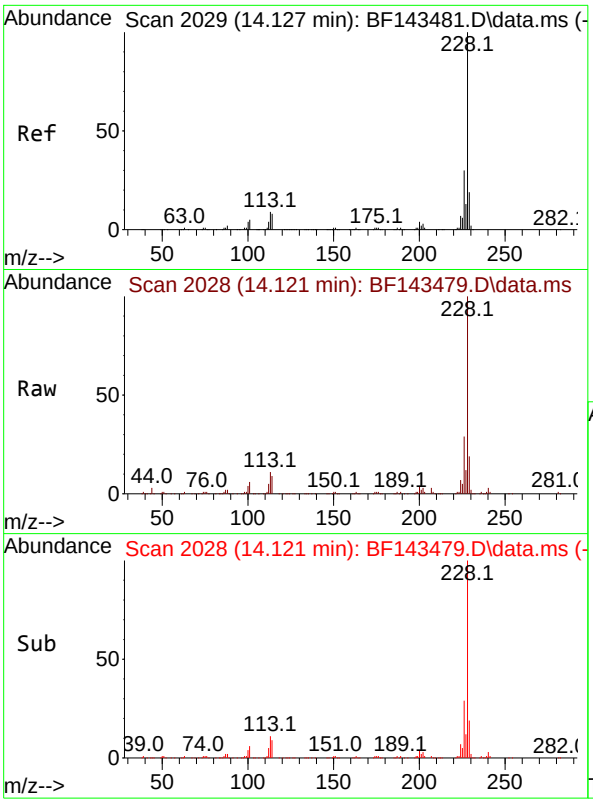


#82
3,3'-Dichlorobenzidine
Concen: 9.566 ng
RT: 14.045 min Scan# 2015
Delta R.T. -0.000 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Tgt Ion:252 Resp: 48491

Ion	Ratio	Lower	Upper
252	100		
254	63.7	52.6	79.0
126	11.9	8.7	13.1



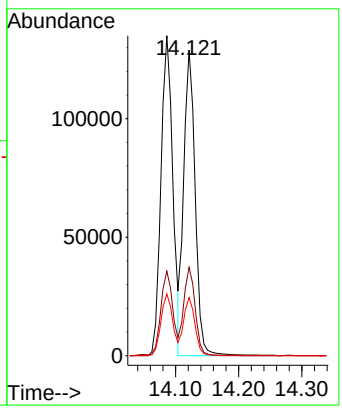


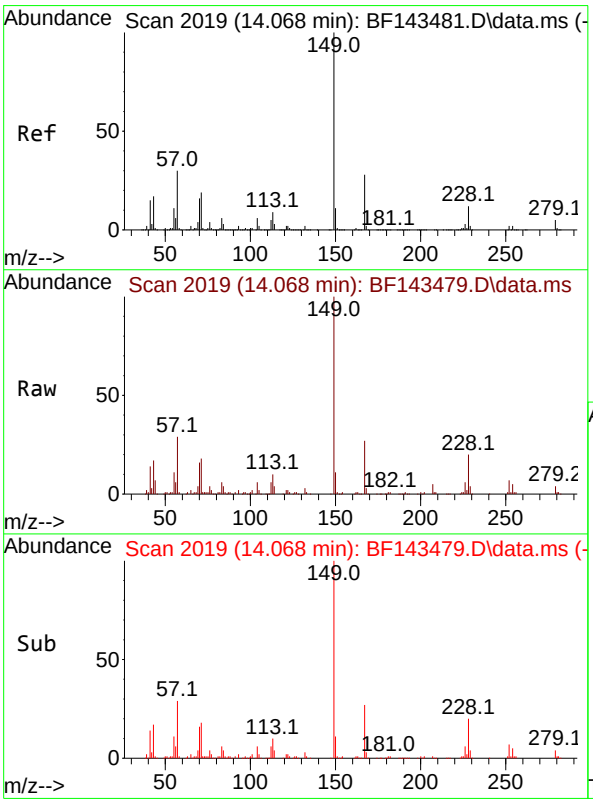
#83
Chrysene
Concen: 10.323 ng
RT: 14.121 min Scan# 2(
Delta R.T. -0.006 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:228 Resp: 164205

Ion	Ratio	Lower	Upper
228	100		
226	28.9	23.7	35.5
229	19.0	15.7	23.5

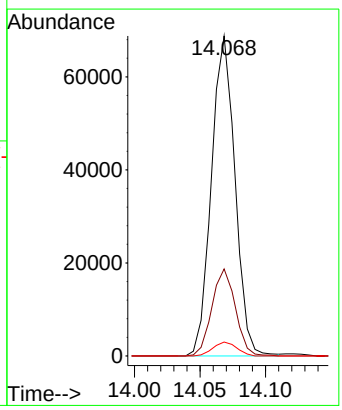


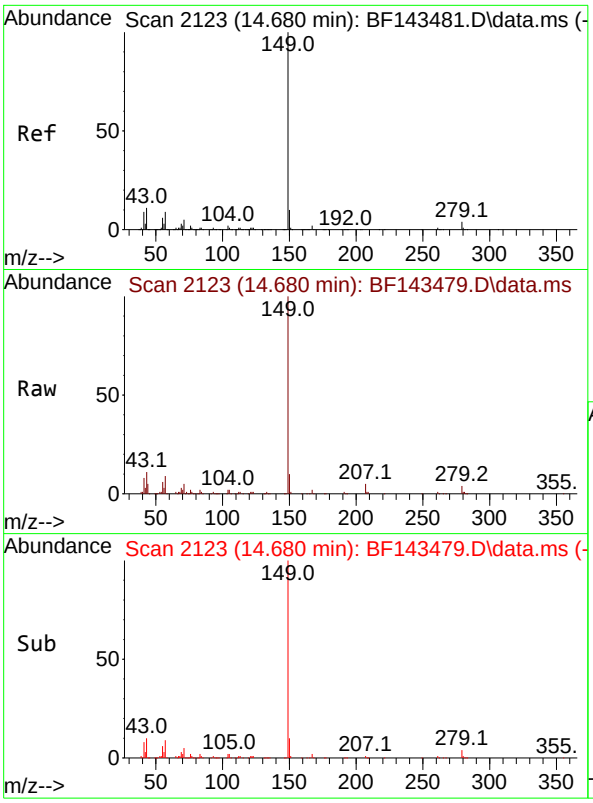


#84
Bis(2-ethylhexyl)phthalate
Concen: 9.146 ng
RT: 14.068 min Scan# 2019
Delta R.T. -0.000 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Tgt Ion:149 Resp: 86065

Ion	Ratio	Lower	Upper
149	100		
167	27.2	22.2	33.2
279	4.4	3.6	5.4



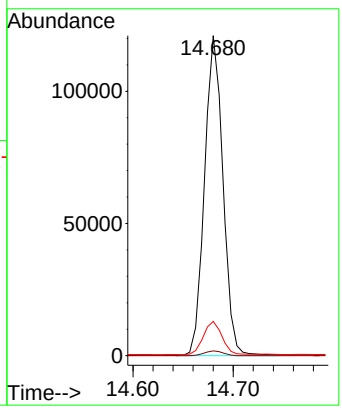


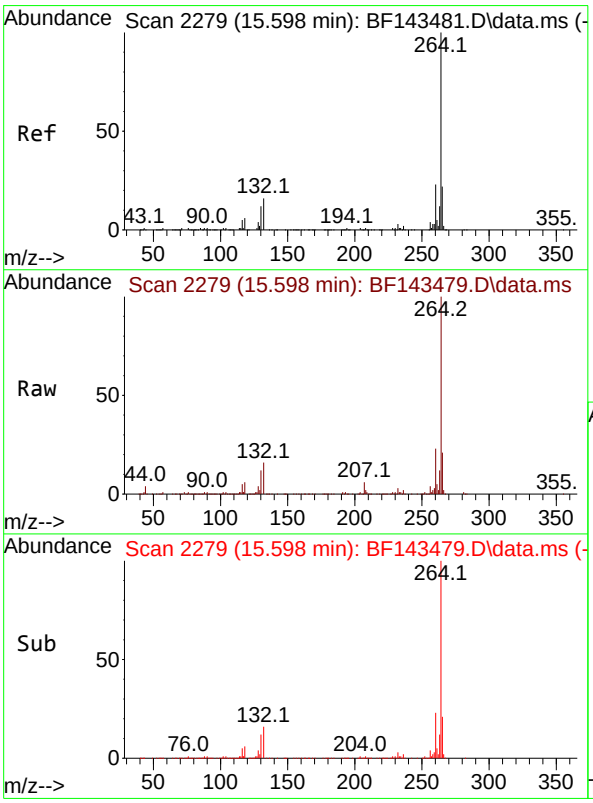
#85
Di-n-octyl phthalate
Concen: 8.906 ng
RT: 14.680 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:149 Resp: 155239

Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.2	1.8
43	10.5	8.5	12.7

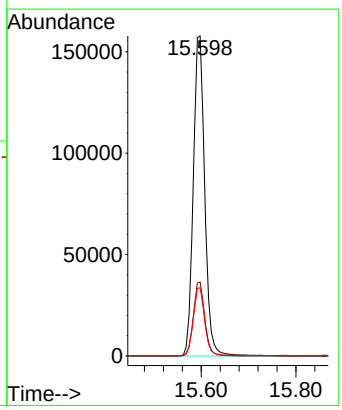


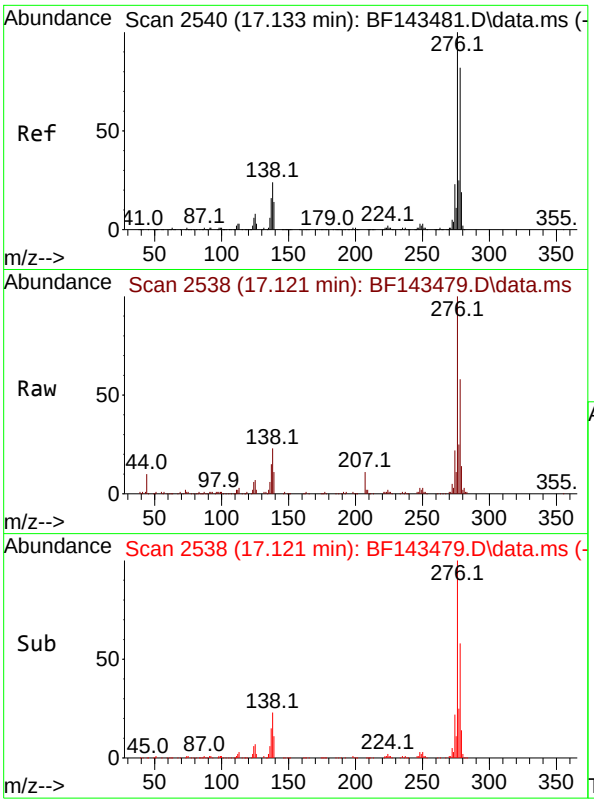


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.598 min Scan# 2279
Delta R.T. -0.000 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Tgt Ion:264 Resp: 265385

Ion	Ratio	Lower	Upper
264	100		
260	23.1	18.7	28.1
265	21.3	17.6	26.4



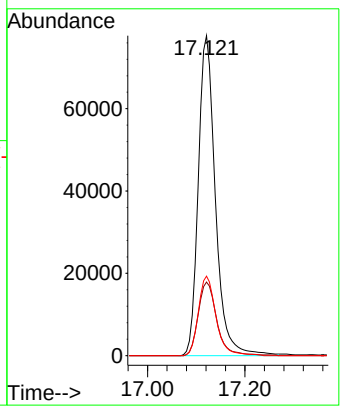


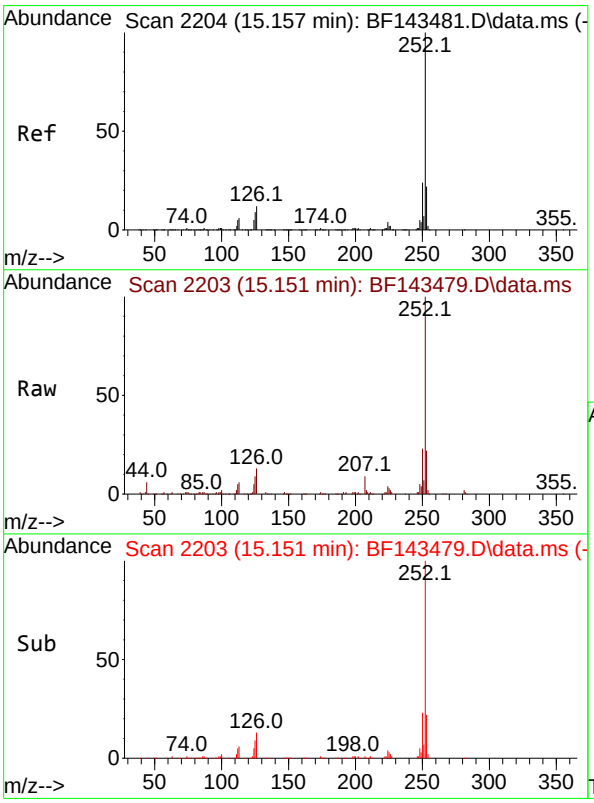
#87
Indeno(1,2,3-cd)pyrene
Concen: 9.970 ng
RT: 17.121 min Scan# 2
Delta R.T. -0.018 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:276 Resp: 190133

Ion	Ratio	Lower	Upper
276	100		
138	25.0	19.2	28.8
277	25.5	20.3	30.5

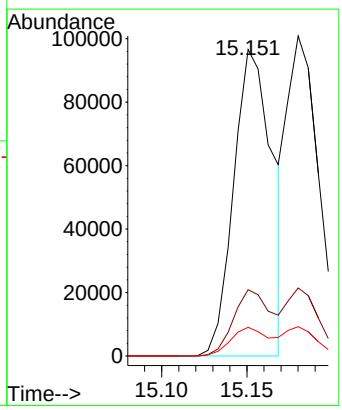


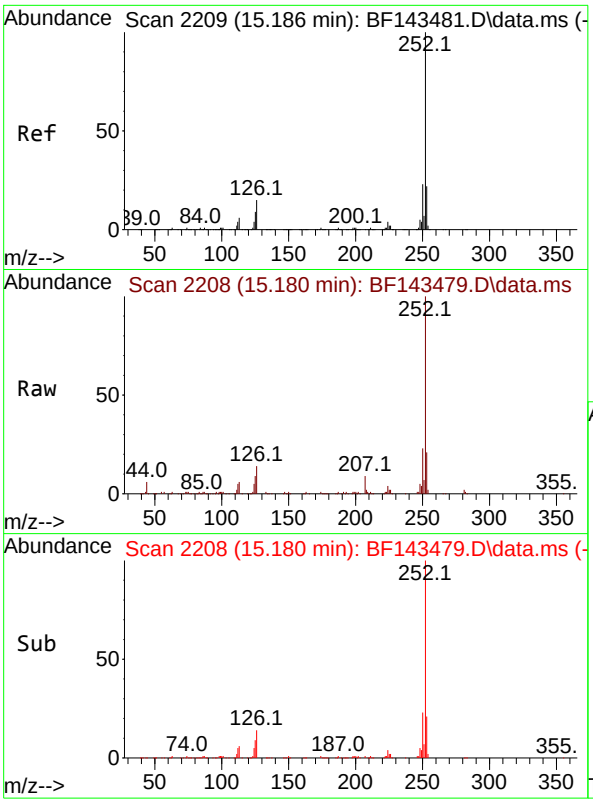


#88
Benzo(b)fluoranthene
Concen: 10.314 ng
RT: 15.151 min Scan# 2203
Delta R.T. -0.006 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Tgt Ion:252 Resp: 152145

Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.5	26.3
125	9.4	7.4	11.0



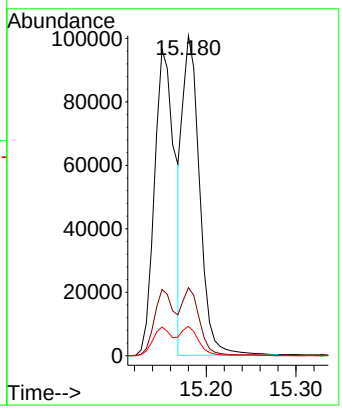


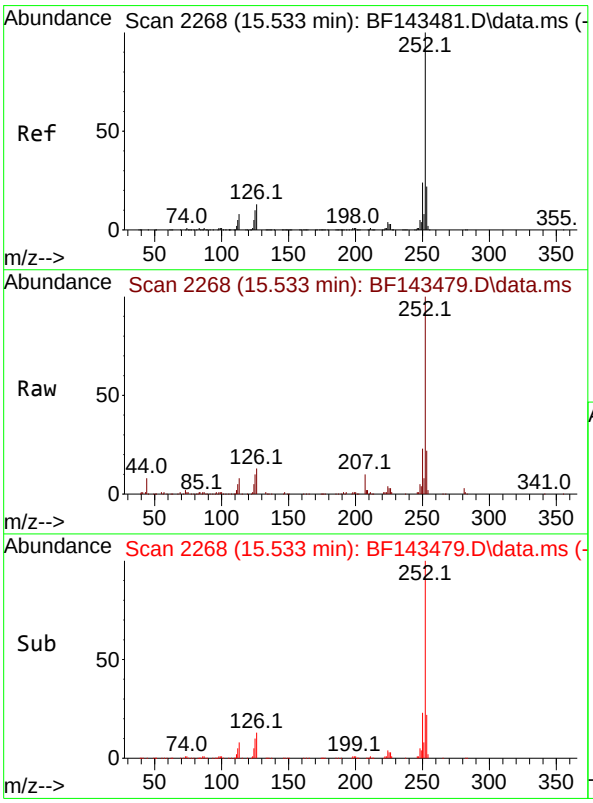
#89
Benzo(k)fluoranthene
Concen: 9.524 ng
RT: 15.180 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:252 Resp: 134513

Ion	Ratio	Lower	Upper
252	100		
253	21.2	17.4	26.2
125	9.2	7.4	11.0

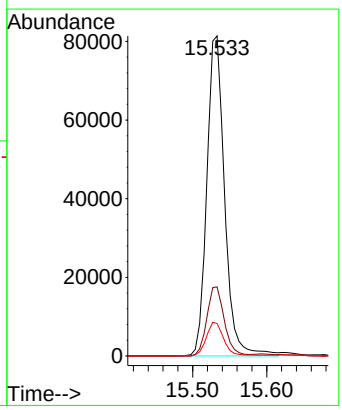


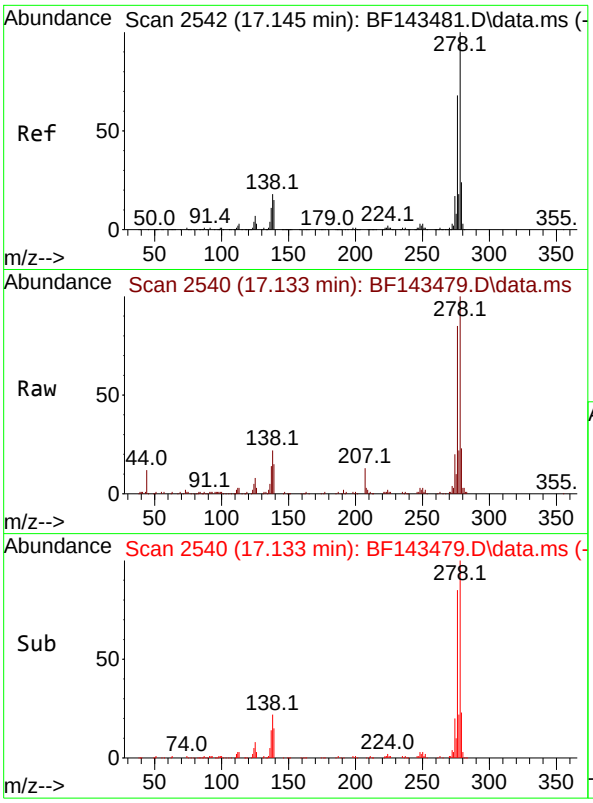


#90
Benzo(a)pyrene
Concen: 9.898 ng
RT: 15.533 min Scan# 2268
Delta R.T. -0.006 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Tgt Ion:252 Resp: 135536

Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.4	26.0
125	10.1	8.2	12.2



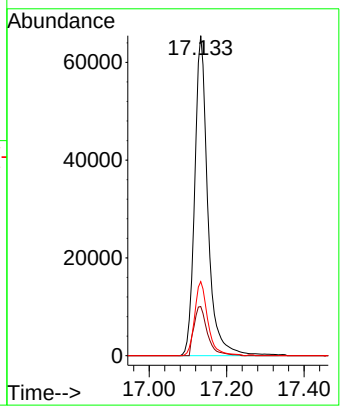


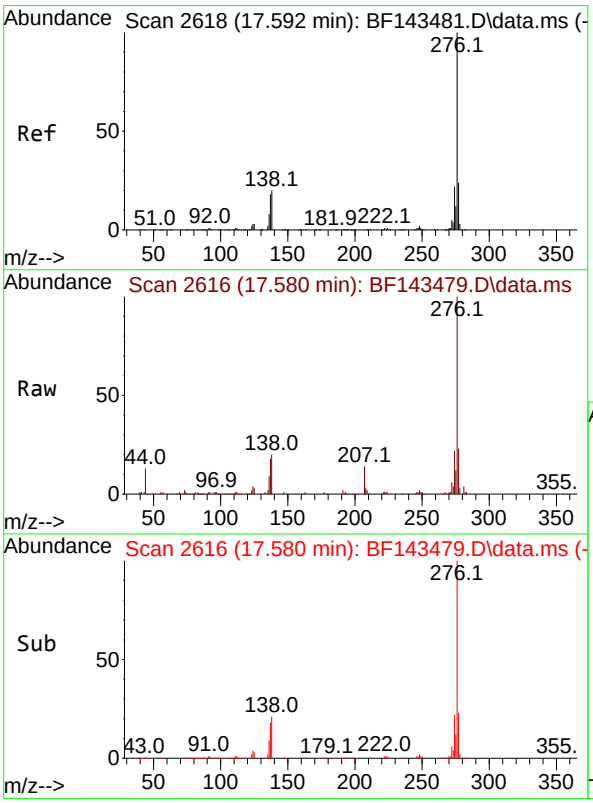
#91
Dibenzo(a,h)anthracene
Concen: 10.113 ng
RT: 17.133 min Scan# 2
Delta R.T. -0.024 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:278 Resp: 154454

Ion	Ratio	Lower	Upper
278	100		
139	15.3	12.1	18.1
279	23.1	19.2	28.8

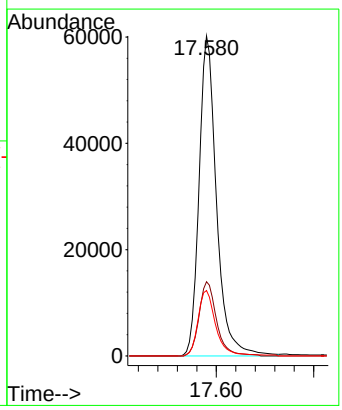




#92
Benzo(g,h,i)perylene
Concen: 9.865 ng
RT: 17.580 min Scan# 2616
Delta R.T. -0.024 min
Lab File: BF143479.D
Acq: 20 Aug 2025 11:54

Tgt Ion:276 Resp: 149813

Ion	Ratio	Lower	Upper
276	100		
277	23.2	18.9	28.3
138	20.5	16.3	24.5



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082025\
Data File : BF143480.D
Acq On : 20 Aug 2025 12:23
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Quant Time: Aug 20 16:23:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 20 15:07:46 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.928	152	135122	20.000	ng		0.00
21) Naphthalene-d8	8.210	136	502602	20.000	ng		0.00
39) Acenaphthene-d10	9.963	164	273375	20.000	ng		0.00
64) Phenanthrene-d10	11.451	188	425626	20.000	ng		0.00
76) Chrysene-d12	14.098	240	241250	20.000	ng		0.00
86) Perylene-d12	15.598	264	255472	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.557	112	322546	41.682	ng		0.00
7) Phenol-d6	6.557	99	397415	41.604	ng		-0.02
23) Nitrobenzene-d5	7.487	82	358365	41.608	ng		-0.01
42) 2,4,6-Tribromophenol	10.757	330	106021	41.663	ng		0.00
45) 2-Fluorobiphenyl	9.281	172	723237	43.723	ng		0.00
79) Terphenyl-d14	13.033	244	601957	43.541	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.740	88	72831	20.317	ng		99
3) Pyridine	3.528	79	193877	20.306	ng		100
4) n-Nitrosodimethylamine	3.452	42	83662	19.492	ng		97
6) Aniline	6.587	93	264694	20.731	ng		99
8) 2-Chlorophenol	6.716	128	175887	20.579	ng		99
9) Benzaldehyde	6.475	77	132575	17.142	ng		100
10) Phenol	6.575	94	233093	21.182	ng		91
11) bis(2-Chloroethyl)ether	6.657	93	166906	20.296	ng		99
12) 1,3-Dichlorobenzene	6.869	146	198141	20.633	ng		99
13) 1,4-Dichlorobenzene	6.945	146	200428	20.806	ng		99
14) 1,2-Dichlorobenzene	7.098	146	187297	20.536	ng		100
15) Benzyl Alcohol	7.063	79	143623	20.082	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.192	45	277424	21.087	ng		96
17) 2-Methylphenol	7.181	107	142643	20.794	ng		95
18) Hexachloroethane	7.439	117	67887	20.727	ng		98
19) n-Nitroso-di-n-propyla...	7.328	70	118831	20.353	ng		97
20) 3+4-Methylphenols	7.334	107	178398	21.785	ng		98
22) Acetophenone	7.328	105	230609	21.238	ng	#	99
24) Nitrobenzene	7.504	77	183817	20.736	ng		99
25) Isophorone	7.745	82	323869	20.513	ng		98
26) 2-Nitrophenol	7.822	139	88771	20.444	ng		98
27) 2,4-Dimethylphenol	7.863	122	141452	20.897	ng		99
28) bis(2-Chloroethoxy)met...	7.951	93	201584	20.776	ng		99
29) 2,4-Dichlorophenol	8.069	162	152215	21.055	ng		99
30) 1,2,4-Trichlorobenzene	8.151	180	157575	21.200	ng		99
31) Naphthalene	8.234	128	509408	21.111	ng		100
32) Benzoic acid	7.963	122	58396	19.199	ng		98
33) 4-Chloroaniline	8.275	127	181928	21.243	ng		99
34) Hexachlorobutadiene	8.351	225	100875	20.802	ng		99
35) Caprolactam	8.628	113	33991	19.594	ng		99
36) 4-Chloro-3-methylphenol	8.757	107	152197	21.008	ng		98
37) 2-Methylnaphthalene	8.922	142	343900	21.339	ng		99
38) 1-Methylnaphthalene	9.022	142	326683	21.191	ng		100
40) 1,2,4,5-Tetrachloroben...	9.092	216	167691	21.445	ng		100
41) Hexachlorocyclopentadiene	9.081	237	41723	19.072	ng		100
43) 2,4,6-Trichlorophenol	9.204	196	99517	20.683	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082025\
Data File : BF143480.D
Acq On : 20 Aug 2025 12:23
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Quant Time: Aug 20 16:23:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 20 15:07:46 2025
Response via : Initial Calibration

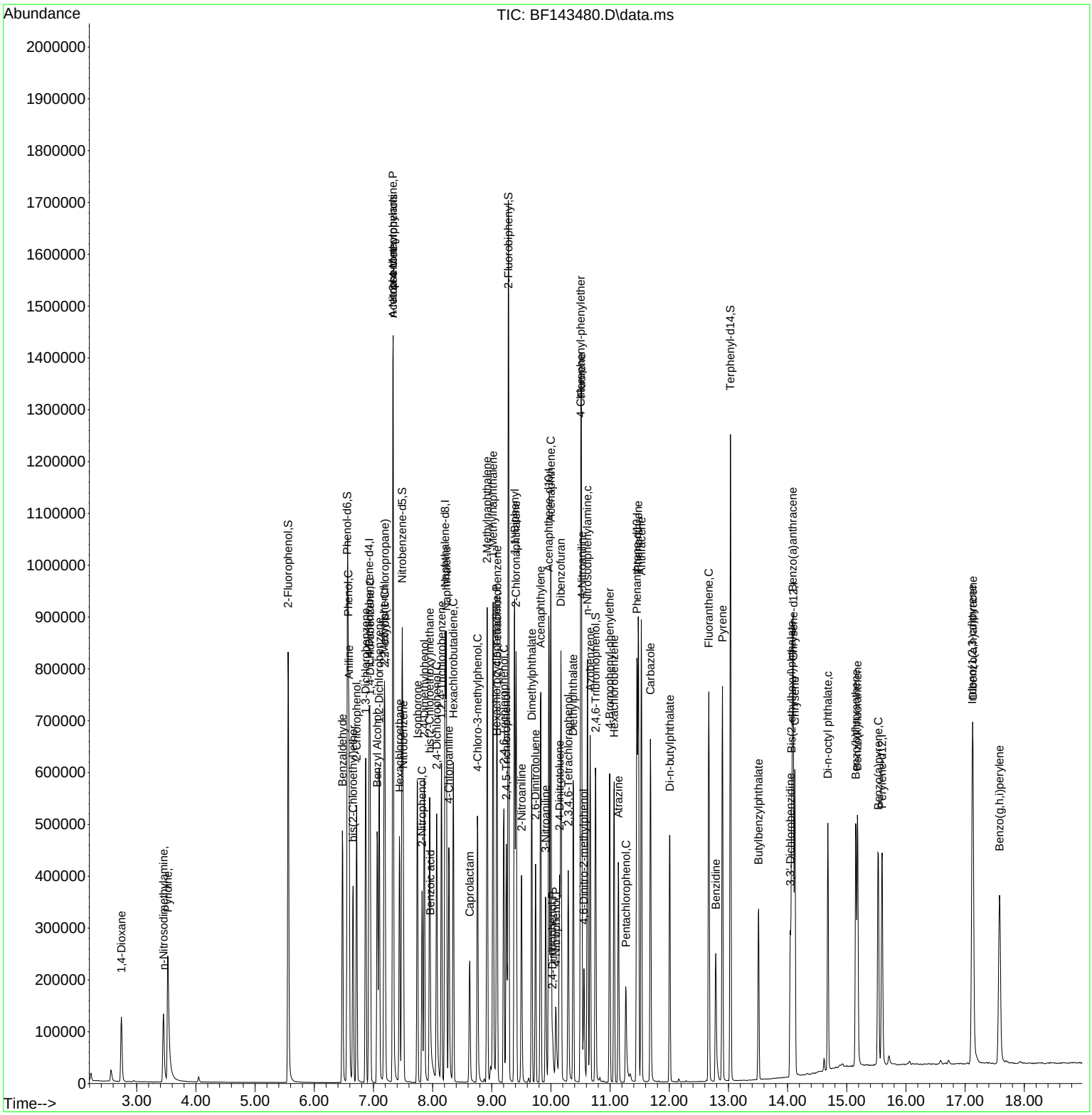
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.245	196	112939	21.488	ng	97
46) 1,1'-Biphenyl	9.386	154	415294	21.403	ng	99
47) 2-Chloronaphthalene	9.410	162	320277	21.037	ng	99
48) 2-Nitroaniline	9.504	65	92468	20.753	ng	98
49) Acenaphthylene	9.828	152	461236	21.158	ng	100
50) Dimethylphthalate	9.675	163	342268	20.788	ng	100
51) 2,6-Dinitrotoluene	9.739	165	70716	20.723	ng	98
52) Acenaphthene	9.998	154	310782	20.998	ng	100
53) 3-Nitroaniline	9.910	138	76663	20.791	ng	97
54) 2,4-Dinitrophenol	10.028	184	26974	19.096	ng	94
55) Dibenzofuran	10.169	168	450207	21.335	ng	100
56) 4-Nitrophenol	10.086	139	40278	18.359	ng	99
57) 2,4-Dinitrotoluene	10.145	165	95333	20.923	ng	98
58) Fluorene	10.516	166	347075	21.370	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.292	232	81629	20.905	ng	99
60) Diethylphthalate	10.375	149	303476	20.558	ng	99
61) 4-Chlorophenyl-phenyle...	10.504	204	171724	21.142	ng	98
62) 4-Nitroaniline	10.522	138	70583	20.840	ng	99
63) Azobenzene	10.663	77	321721	21.019	ng	99
65) 4,6-Dinitro-2-methylph...	10.557	198	43824	18.261	ng	93
66) n-Nitrosodiphenylamine	10.616	169	288871	21.089	ng	99
67) 4-Bromophenyl-phenylether	10.992	248	106363	20.944	ng	97
68) Hexachlorobenzene	11.069	284	113714	20.773	ng	98
69) Atrazine	11.139	200	69831	19.750	ng	98
70) Pentachlorophenol	11.269	266	45302	18.070	ng	97
71) Phenanthrene	11.475	178	480915	21.099	ng	99
72) Anthracene	11.527	178	488675	21.164	ng	100
73) Carbazole	11.680	167	396704	20.967	ng	100
74) Di-n-butylphthalate	12.010	149	353228	20.013	ng	100
75) Fluoranthene	12.669	202	426351	20.846	ng	99
77) Benzidine	12.786	184	160347	27.286	ng	99
78) Pyrene	12.898	202	432575	21.798	ng	99
80) Butylbenzylphthalate	13.510	149	106788	19.698	ng	98
81) Benzo(a)anthracene	14.086	228	313687	20.196	ng	100
82) 3,3'-Dichlorobenzidine	14.045	252	93226	20.959	ng	98
83) Chrysene	14.121	228	292523	20.957	ng	99
84) Bis(2-ethylhexyl)phtha...	14.068	149	168717	20.434	ng	99
85) Di-n-octyl phthalate	14.680	149	310954	20.329	ng	99
87) Indeno(1,2,3-cd)pyrene	17.121	276	399711	21.773	ng	100
88) Benzo(b)fluoranthene	15.151	252	302016	21.268	ng	100
89) Benzo(k)fluoranthene	15.180	252	269685	19.835	ng	100
90) Benzo(a)pyrene	15.533	252	274418	20.819	ng	100
91) Dibenzo(a,h)anthracene	17.133	278	321851	21.891	ng	98
92) Benzo(g,h,i)perylene	17.580	276	317263	21.701	ng	99

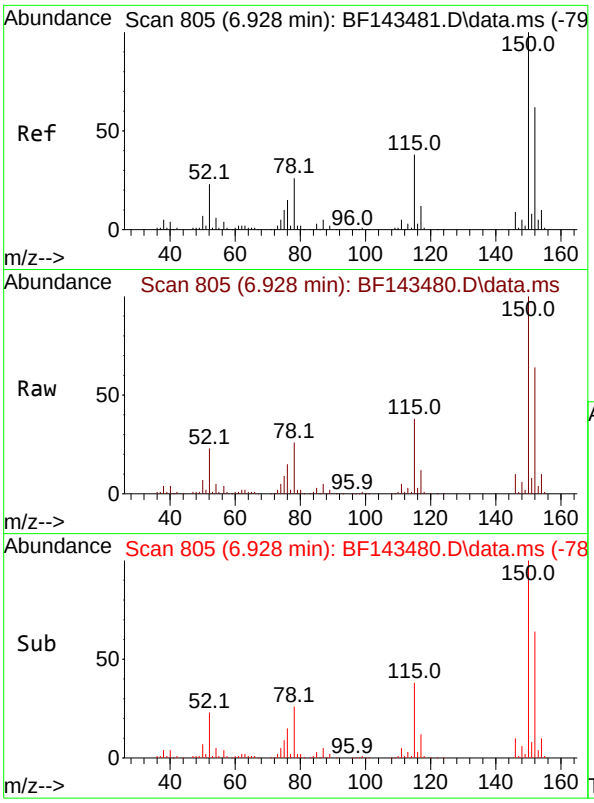
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082025\
Data File : BF143480.D
Acq On : 20 Aug 2025 12:23
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Quant Time: Aug 20 16:23:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 20 15:07:46 2025
Response via : Initial Calibration



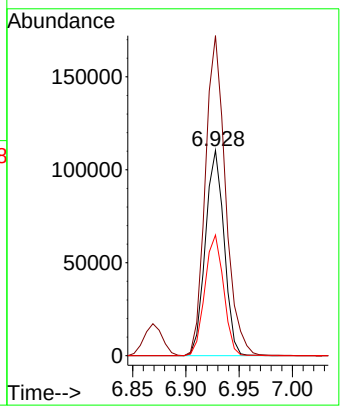


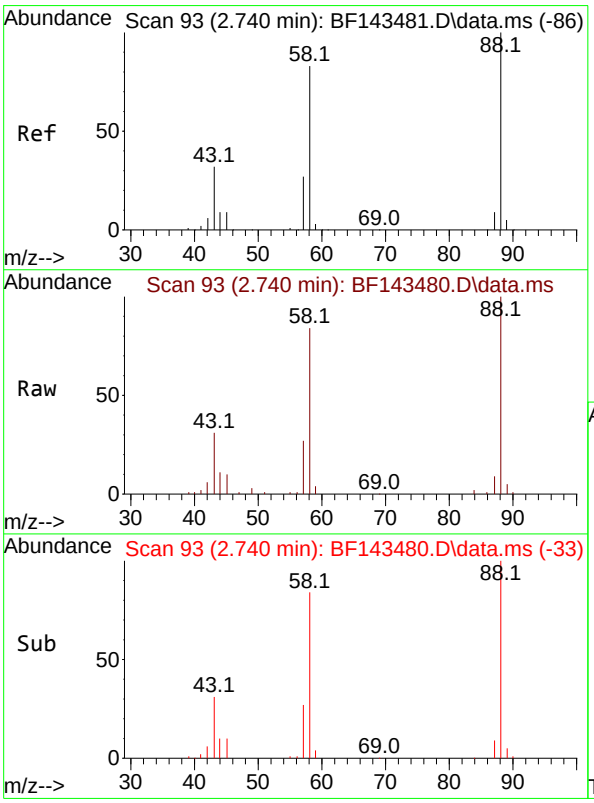
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.928 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:152 Resp: 135122

Ion	Ratio	Lower	Upper
152	100		
150	155.9	128.9	193.3
115	58.8	49.2	73.8

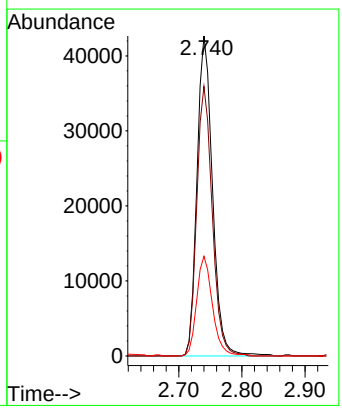


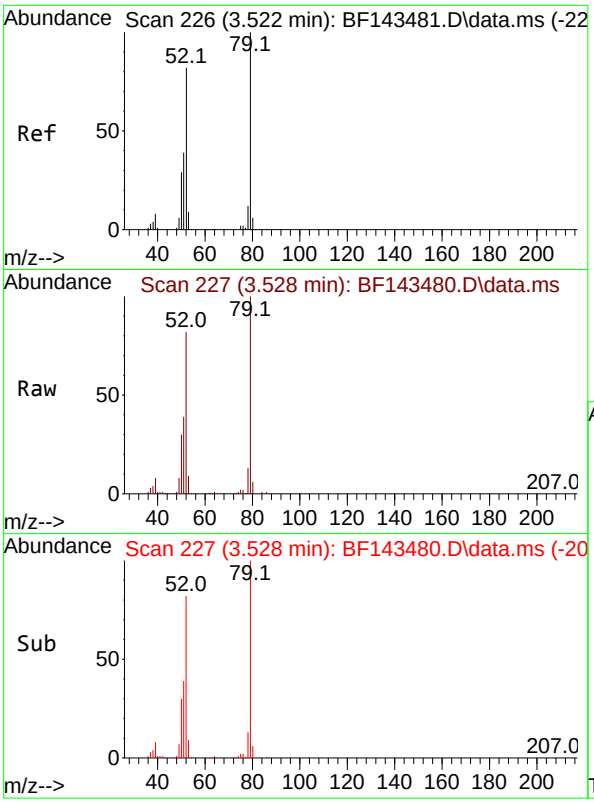


#2
1,4-Dioxane
Concen: 20.317 ng
RT: 2.740 min Scan# 93
Delta R.T. 0.006 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Tgt Ion: 88 Resp: 72831

Ion	Ratio	Lower	Upper
88	100		
58	84.0	66.7	100.1
43	31.7	25.8	38.8



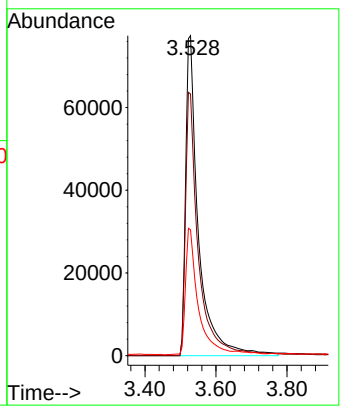


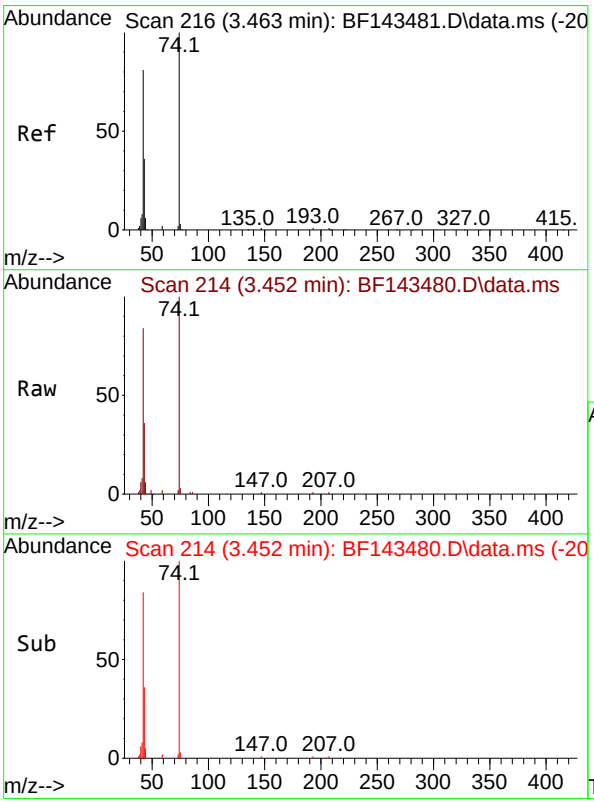
#3
Pyridine
Concen: 20.306 ng
RT: 3.528 min Scan# 21
Delta R.T. 0.012 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion: 79 Resp: 193877

Ion	Ratio	Lower	Upper
79	100		
52	81.8	65.6	98.4
51	39.3	31.2	46.8

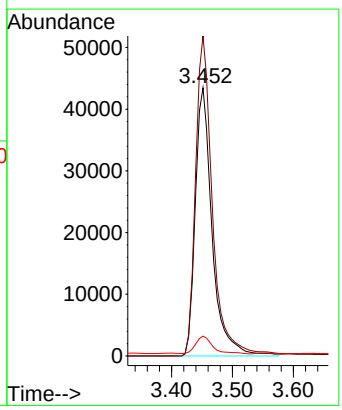


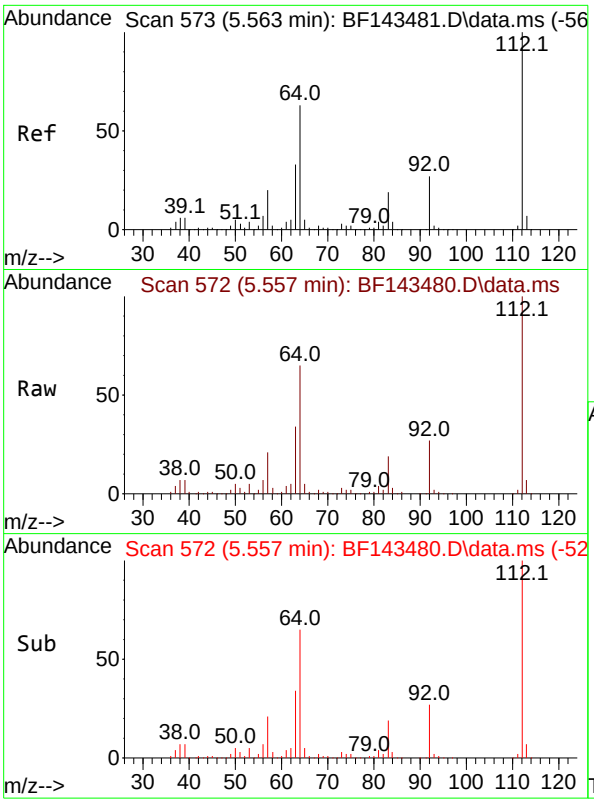


#4
n-Nitrosodimethylamine
Concen: 19.492 ng
RT: 3.452 min Scan# 214
Delta R.T. -0.024 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Tgt Ion: 42 Resp: 83662

Ion	Ratio	Lower	Upper
42	100		
74	119.3	98.6	148.0
44	7.4	5.8	8.8



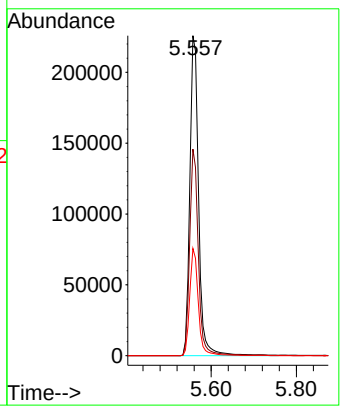


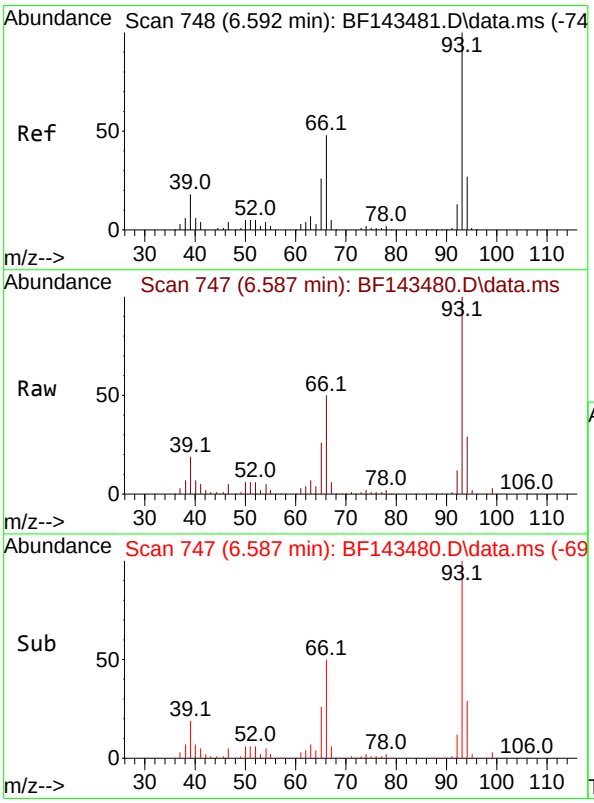
#5
2-Fluorophenol
Concen: 41.682 ng
RT: 5.557 min Scan# 5
Delta R.T. -0.006 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:112 Resp: 322546

Ion	Ratio	Lower	Upper
112	100		
64	64.5	50.4	75.6
63	33.5	26.4	39.6

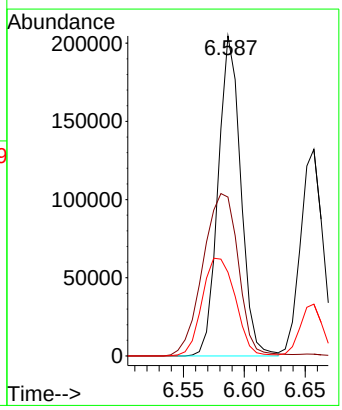


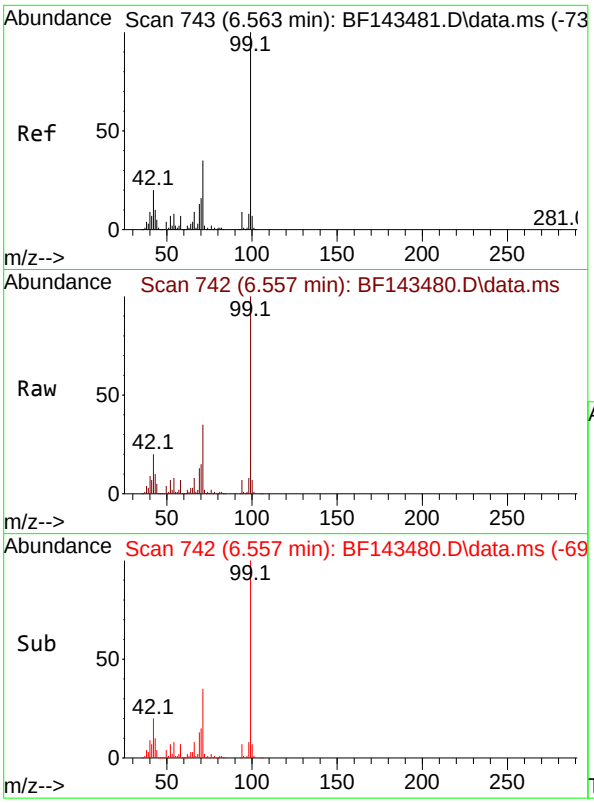


#6
Aniline
Concen: 20.731 ng
RT: 6.587 min Scan# 747
Delta R.T. -0.006 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Tgt Ion: 93 Resp: 264694

Ion	Ratio	Lower	Upper
93	100		
66	49.7	38.9	58.3
65	26.2	20.6	30.8



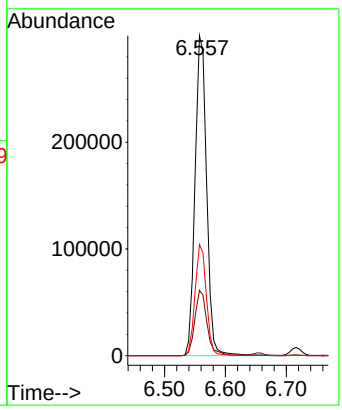


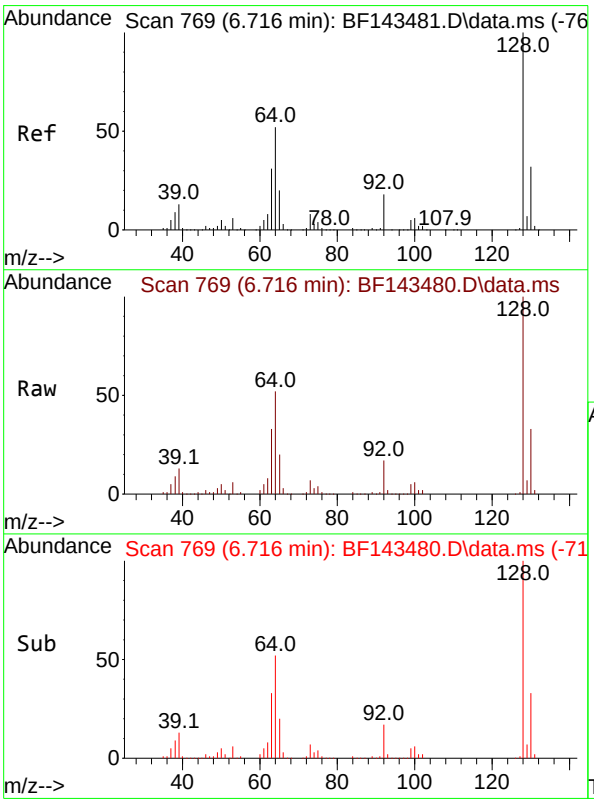
#7
Phenol-d6
Concen: 41.604 ng
RT: 6.557 min Scan# 7
Delta R.T. -0.018 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion: 99 Resp: 397415

Ion	Ratio	Lower	Upper
99	100		
42	20.4	16.3	24.5
71	34.7	28.2	42.2

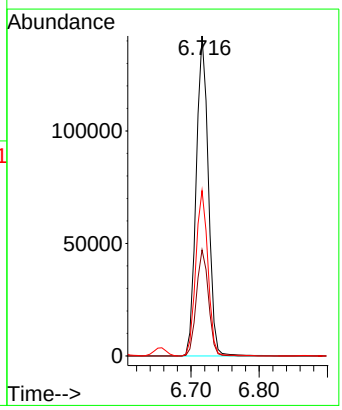


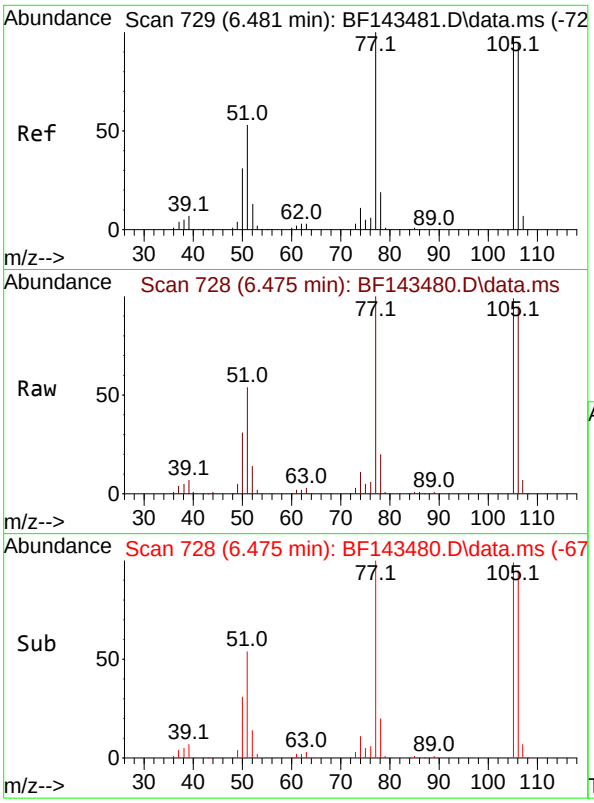


#8
2-Chlorophenol
Concen: 20.579 ng
RT: 6.716 min Scan# 769
Delta R.T. -0.006 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Tgt Ion:128 Resp: 175887

Ion	Ratio	Lower	Upper
128	100		
130	33.2	12.4	52.4
64	51.7	31.6	71.6



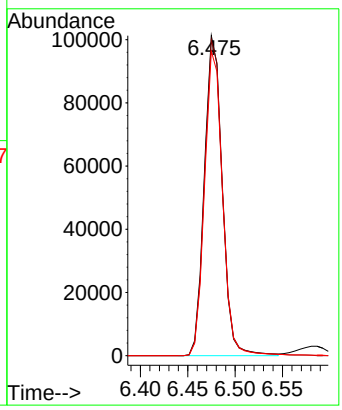


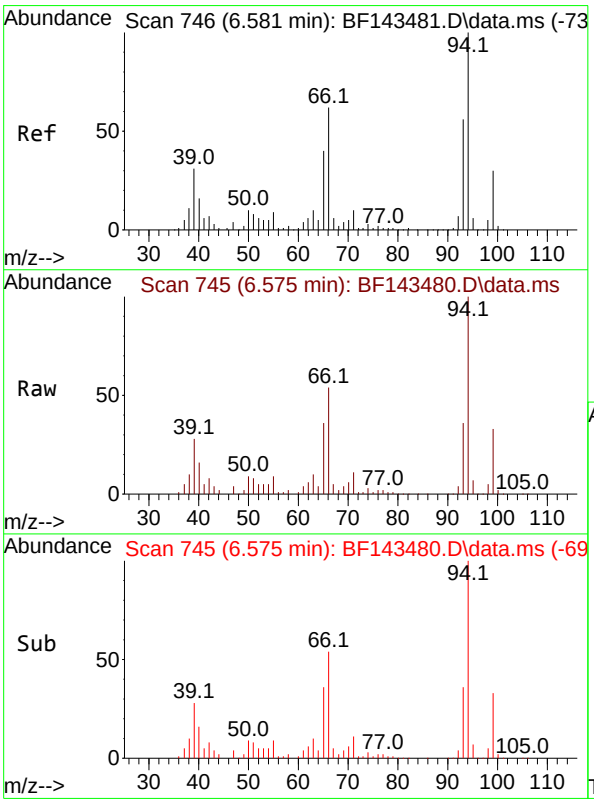
#9
Benzaldehyde
Concen: 17.142 ng
RT: 6.475 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion: 77 Resp: 132575

Ion	Ratio	Lower	Upper
77	100		
105	98.8	78.1	118.1
106	95.2	74.9	114.9

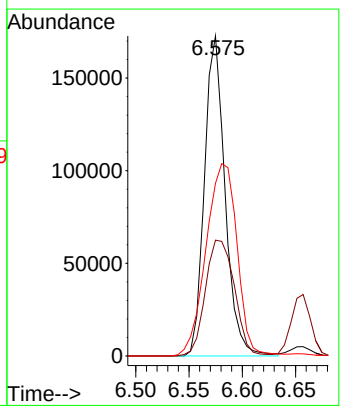


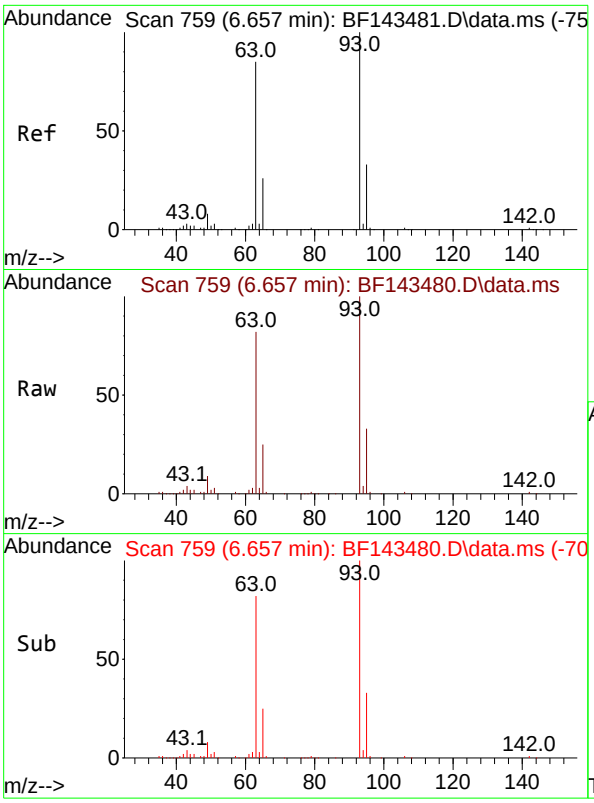


#10
Phenol
Concen: 21.182 ng
RT: 6.575 min Scan# 745
Delta R.T. -0.012 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Tgt Ion: 94 Resp: 233093

Ion	Ratio	Lower	Upper
94	100		
65	36.2	19.5	59.5
66	53.9	42.5	82.5



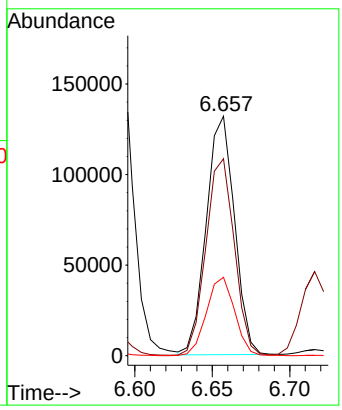


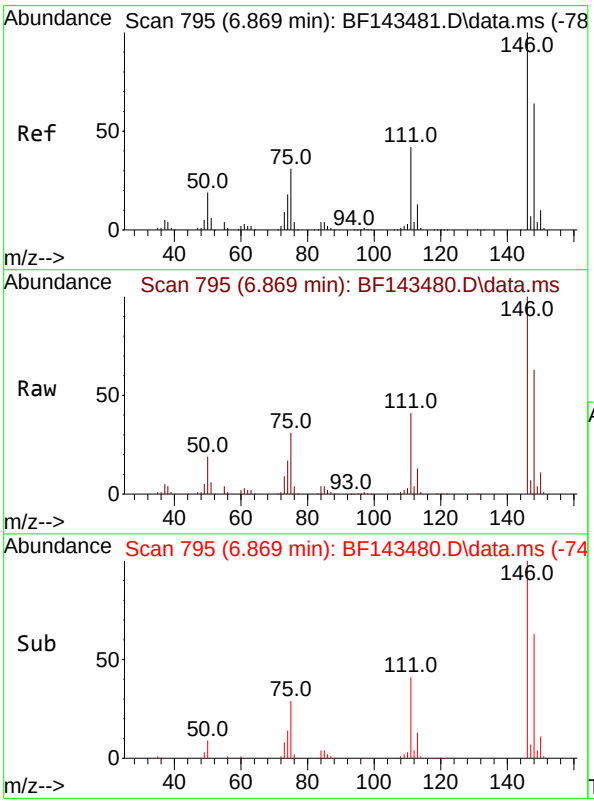
#11
bis(2-Chloroethyl)ether
Concen: 20.296 ng
RT: 6.657 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion: 93 Resp: 166906

Ion	Ratio	Lower	Upper
93	100		
63	82.3	63.6	103.6
95	32.7	12.8	52.8

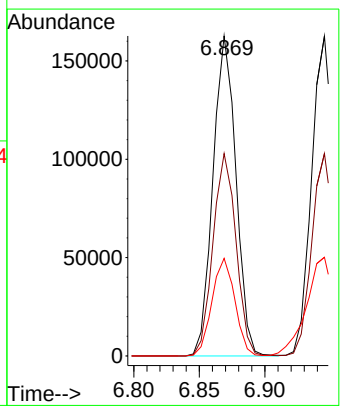


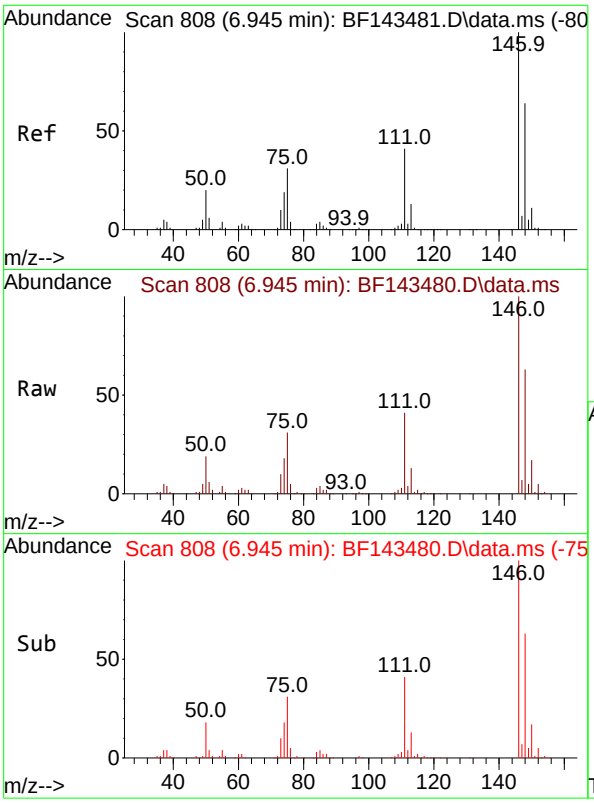


#12
1,3-Dichlorobenzene
Concen: 20.633 ng
RT: 6.869 min Scan# 795
Delta R.T. -0.006 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Tgt Ion:146 Resp: 198141

Ion	Ratio	Lower	Upper
146	100		
148	63.2	51.3	76.9
75	30.5	24.7	37.1



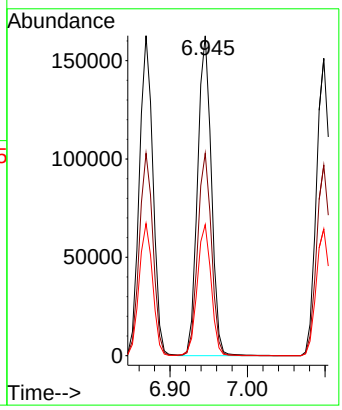


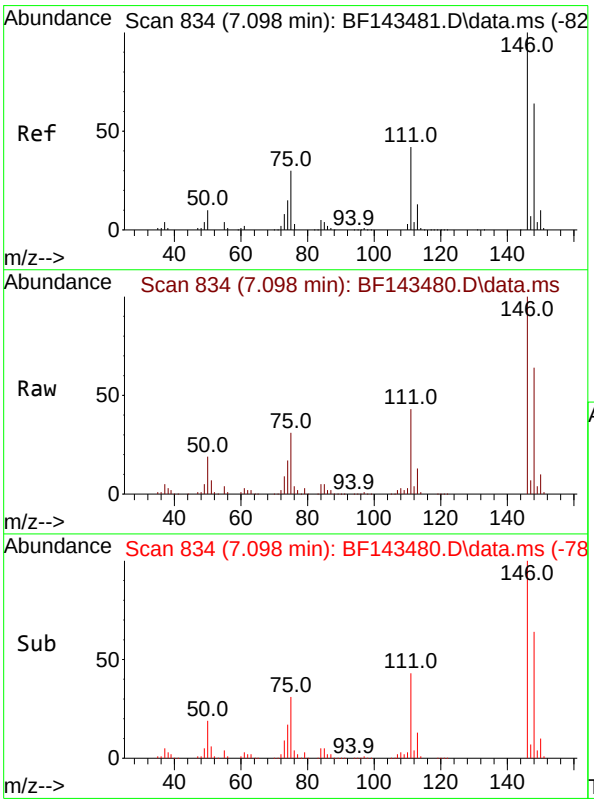
#13
1,4-Dichlorobenzene
Concen: 20.806 ng
RT: 6.945 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:146 Resp: 200428

Ion	Ratio	Lower	Upper
146	100		
148	63.3	51.5	77.3
111	40.9	32.6	49.0

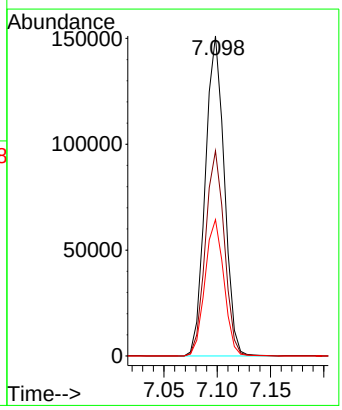


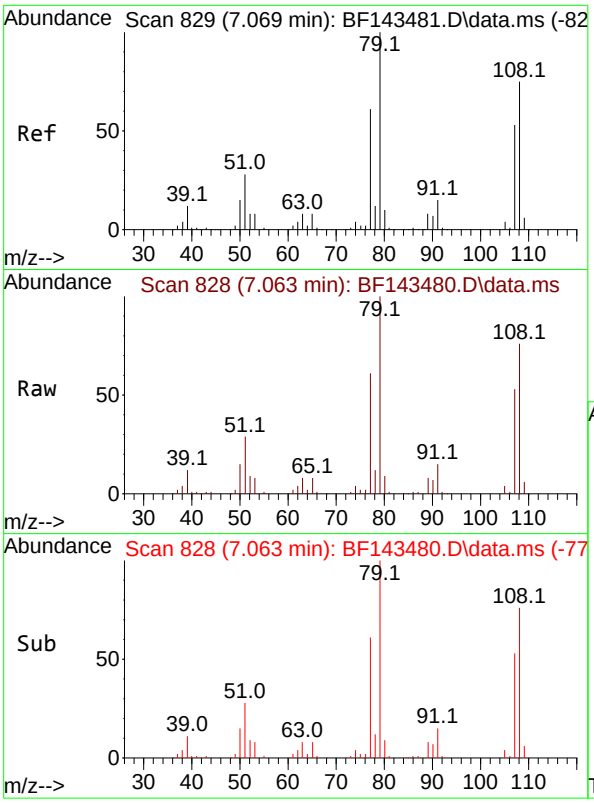


#14
1,2-Dichlorobenzene
Concen: 20.536 ng
RT: 7.098 min Scan# 834
Delta R.T. -0.000 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Tgt Ion:146 Resp: 187297

Ion	Ratio	Lower	Upper
146	100		
148	64.1	51.0	76.6
111	42.6	34.0	51.0



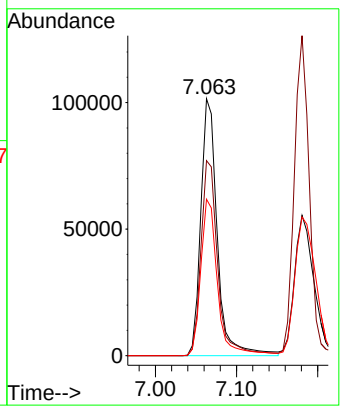


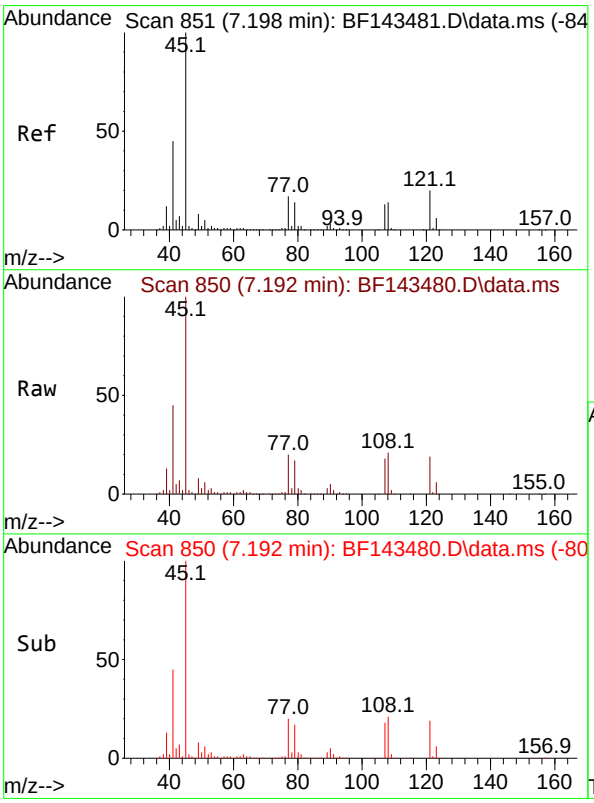
#15
Benzyl Alcohol
Concen: 20.082 ng
RT: 7.063 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion: 79 Resp: 143623

Ion	Ratio	Lower	Upper
79	100		
108	75.9	59.8	89.6
77	60.9	49.0	73.4

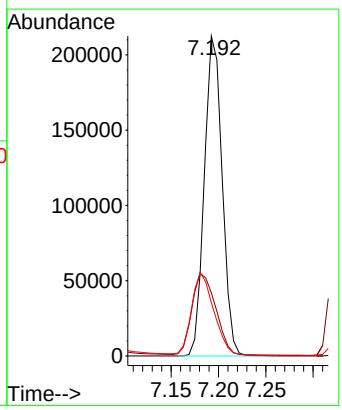


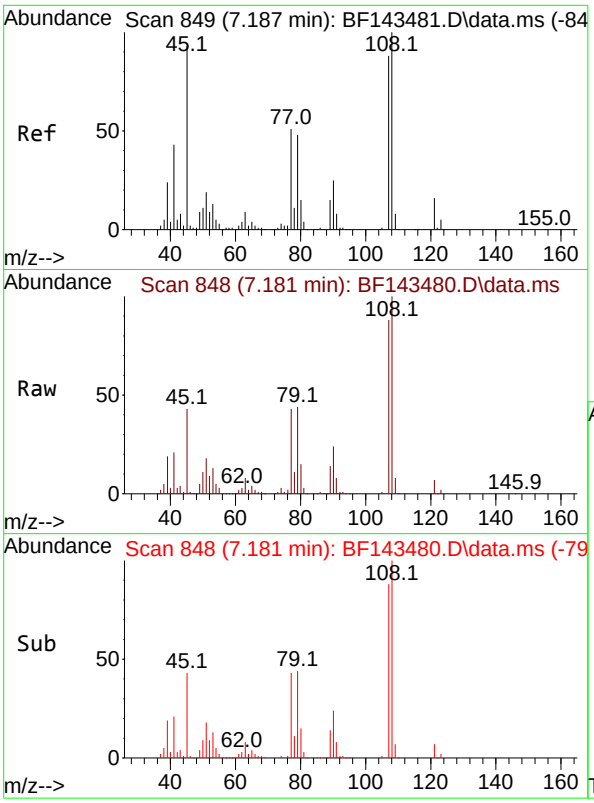


#16
2,2'-oxybis(1-Chloropropane)
Concen: 21.087 ng
RT: 7.192 min Scan# 850
Delta R.T. -0.006 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Tgt Ion: 45 Resp: 277424

Ion	Ratio	Lower	Upper
45	100		
77	19.7	0.0	37.9
79	16.7	0.0	34.7



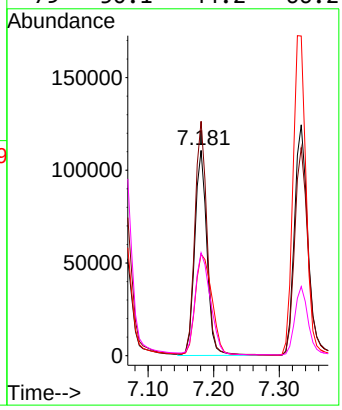


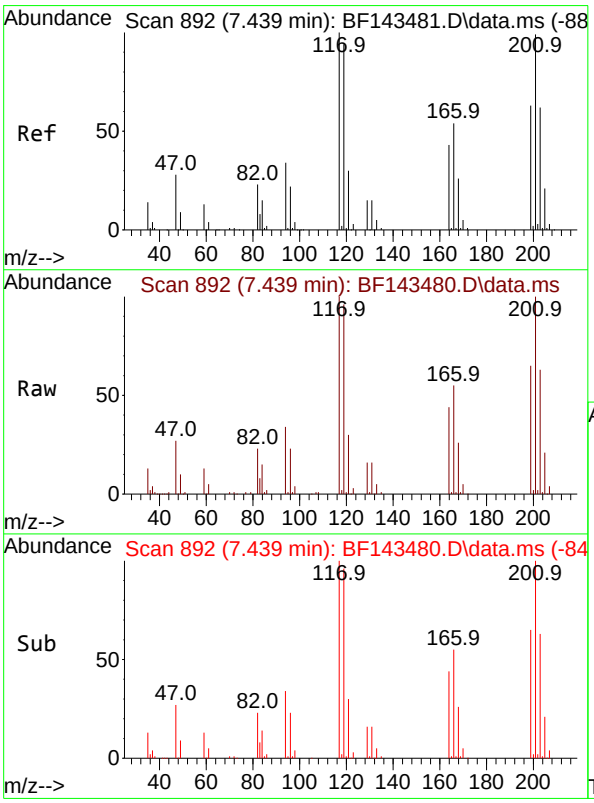
#17
2-Methylphenol
Concen: 20.794 ng
RT: 7.181 min Scan# 84
Delta R.T. -0.006 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:107 Resp: 142643

Ion	Ratio	Lower	Upper
107	100		
108	114.2	91.1	136.7
77	49.5	46.2	69.4
79	50.1	44.2	66.2

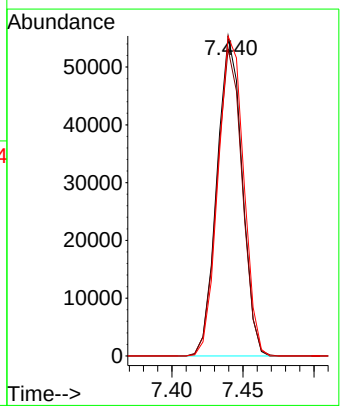


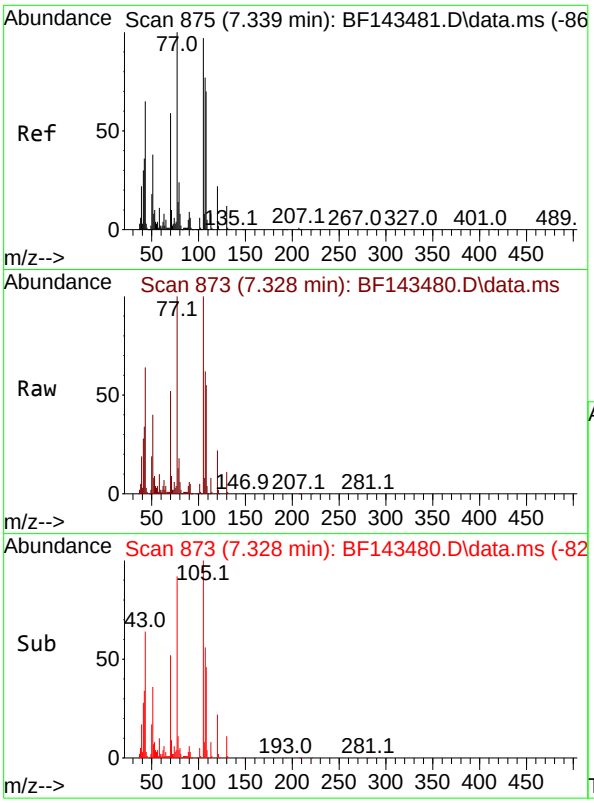


#18
Hexachloroethane
Concen: 20.727 ng
RT: 7.439 min Scan# 892
Delta R.T. -0.006 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Tgt Ion:117 Resp: 67887

Ion	Ratio	Lower	Upper
117	100		
119	96.0	75.4	113.0
201	99.9	79.0	118.4



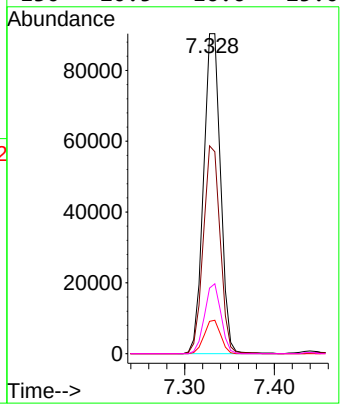


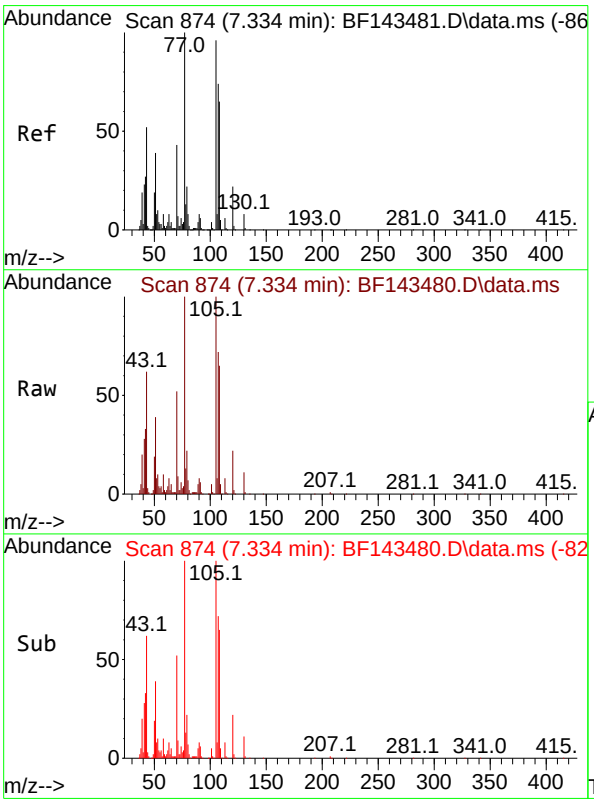
#19
n-Nitroso-di-n-propylamine
Concen: 20.353 ng
RT: 7.328 min Scan# 8
Delta R.T. -0.024 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion: 70 Resp: 118831

Ion	Ratio	Lower	Upper
70	100		
42	65.0	49.3	73.9
101	10.1	7.8	11.8
130	20.5	16.6	25.0

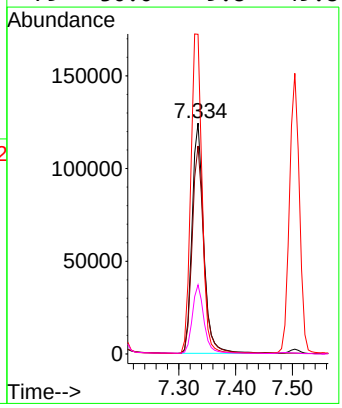


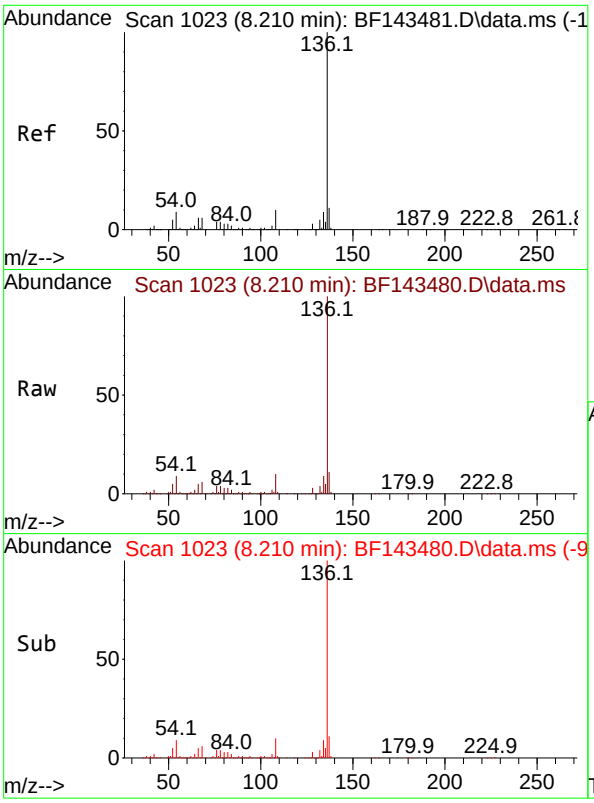


#20
3+4-Methylphenols
Concen: 21.785 ng
RT: 7.334 min Scan# 874
Delta R.T. -0.006 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Tgt Ion:107 Resp: 178398

Ion	Ratio	Lower	Upper
107	100		
108	90.1	68.4	108.4
77	138.5	116.1	156.1
79	30.0	9.8	49.8



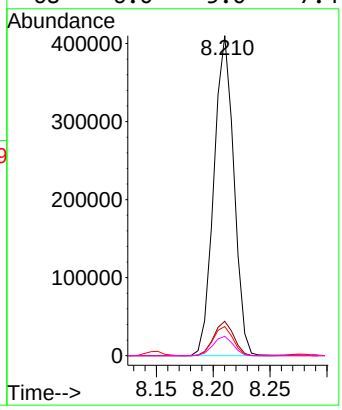


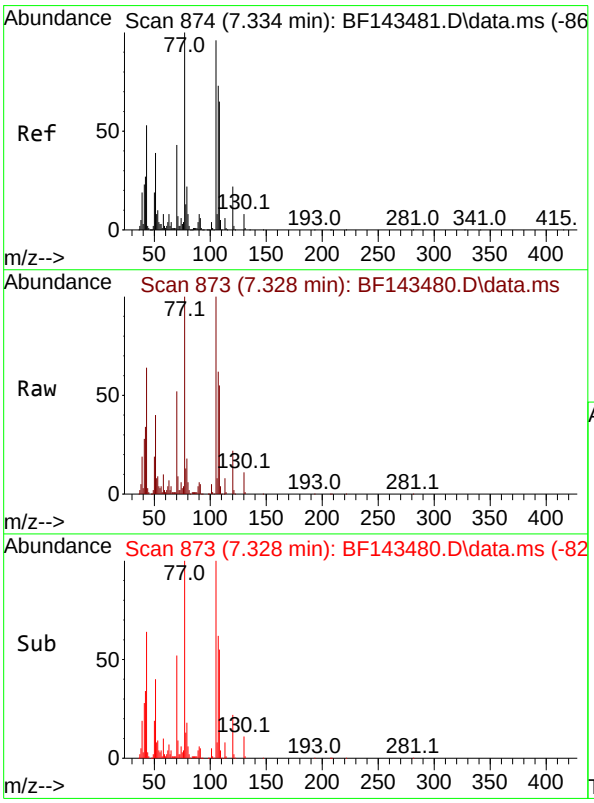
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.210 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:136 Resp: 502602

Ion	Ratio	Lower	Upper
136	100		
137	10.7	9.0	13.4
54	9.1	7.4	11.2
68	6.0	5.0	7.4

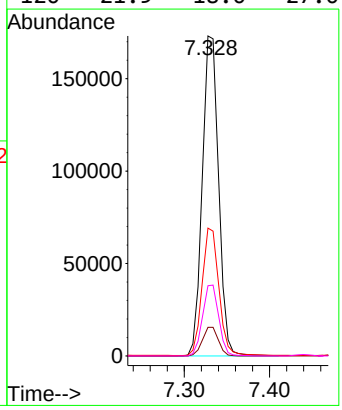


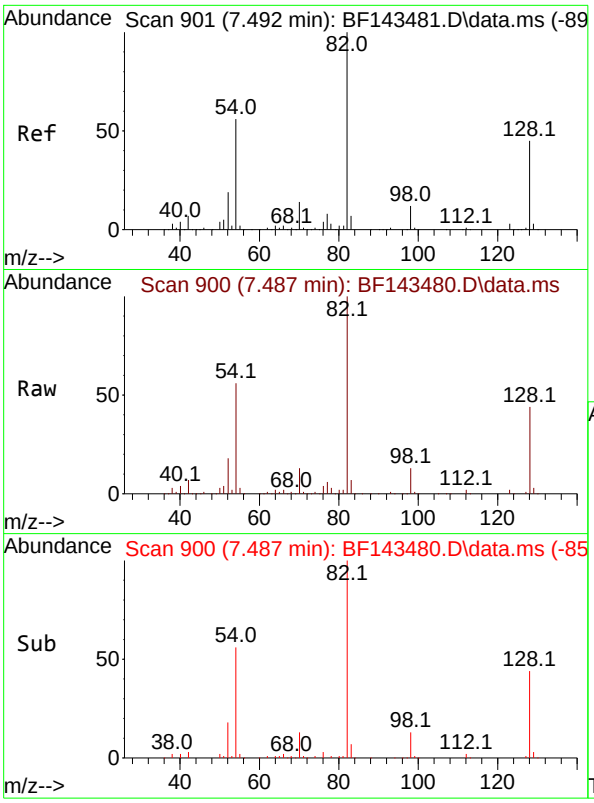


#22
Acetophenone
Concen: 21.238 ng
RT: 7.328 min Scan# 873
Delta R.T. -0.012 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Tgt Ion:105 Resp: 230609

Ion	Ratio	Lower	Upper
105	100		
71	9.0	5.9	8.9#
51	39.9	32.5	48.7
120	21.9	18.0	27.0



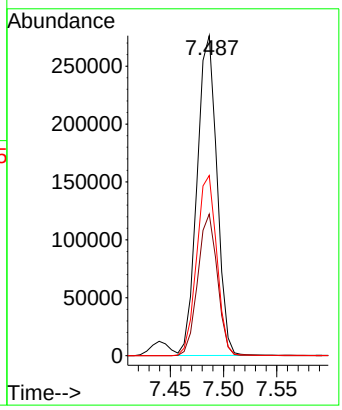


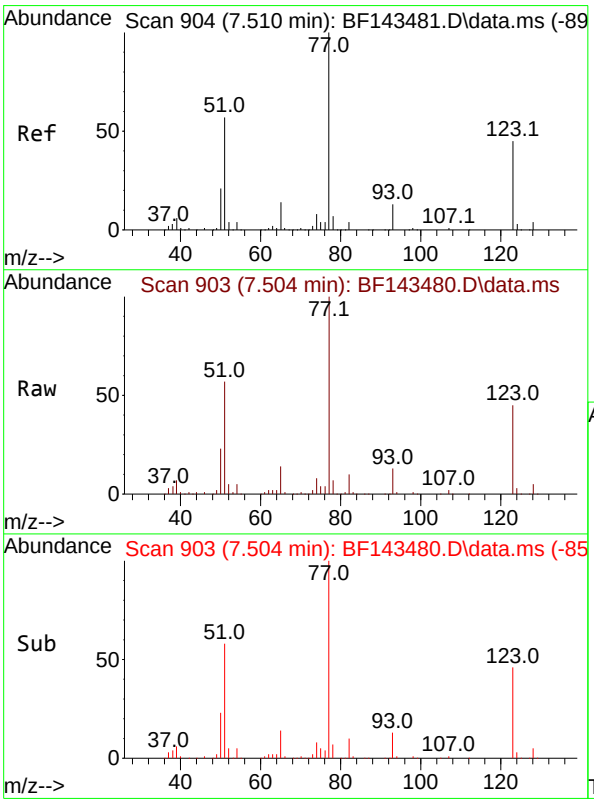
#23
Nitrobenzene-d5
Concen: 41.608 ng
RT: 7.487 min Scan# 9
Delta R.T. -0.012 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion: 82 Resp: 358365

Ion	Ratio	Lower	Upper
82	100		
128	44.3	35.5	53.3
54	56.3	44.3	66.5

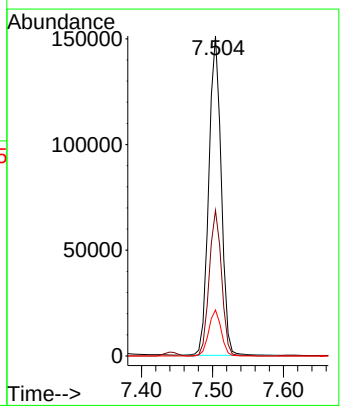


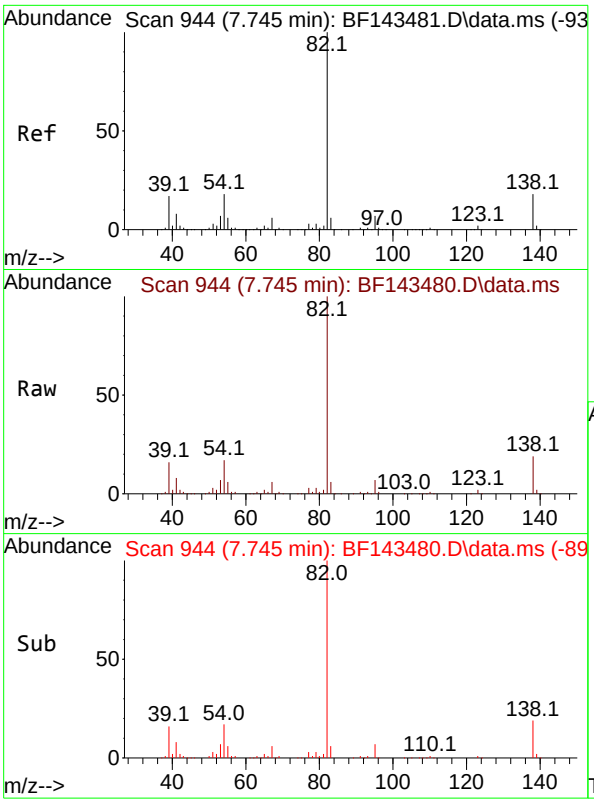


#24
Nitrobenzene
Concen: 20.736 ng
RT: 7.504 min Scan# 903
Delta R.T. -0.012 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Tgt Ion: 77 Resp: 183817

Ion	Ratio	Lower	Upper
77	100		
123	45.5	36.1	54.1
65	14.3	11.0	16.6



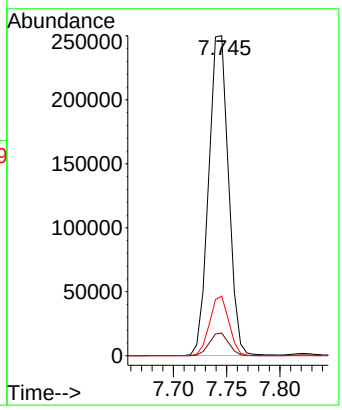


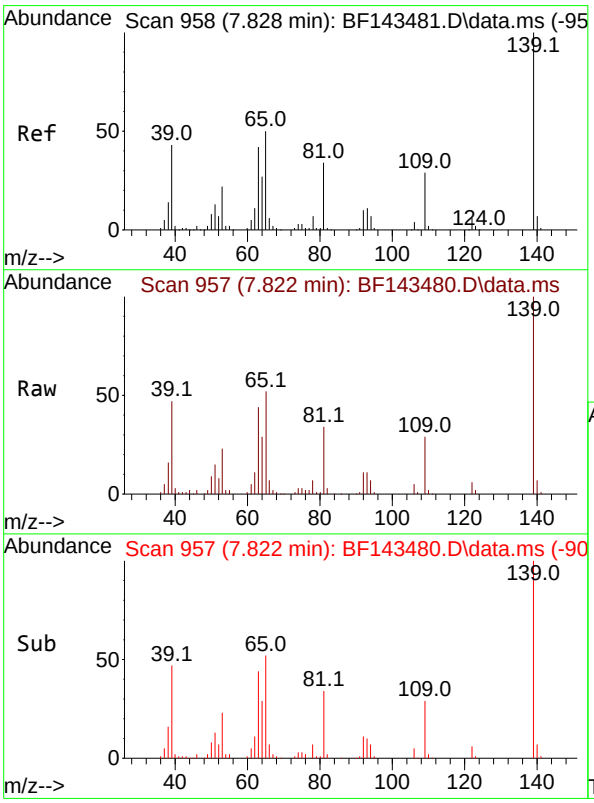
#25
Isophorone
Concen: 20.513 ng
RT: 7.745 min Scan# 94
Delta R.T. -0.012 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion: 82 Resp: 323869

Ion	Ratio	Lower	Upper
82	100		
95	7.0	5.8	8.8
138	18.6	14.2	21.4

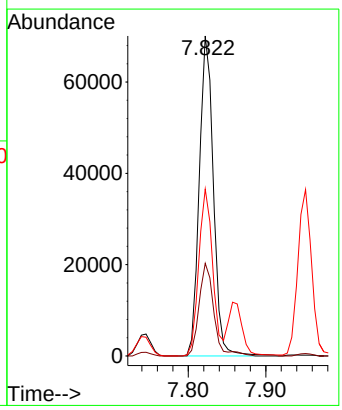


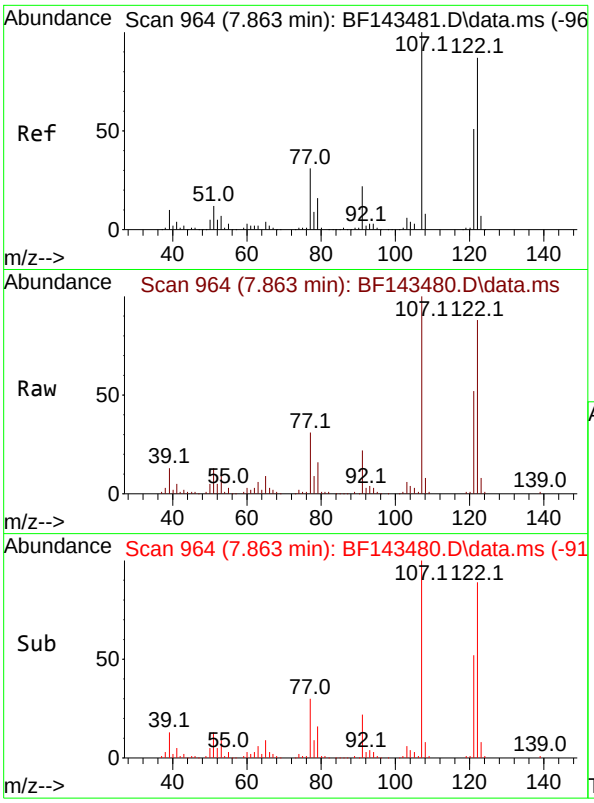


#26
2-Nitrophenol
Concen: 20.444 ng
RT: 7.822 min Scan# 957
Delta R.T. -0.006 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Tgt Ion:139 Resp: 88771

Ion	Ratio	Lower	Upper
139	100		
109	28.9	23.0	34.6
65	52.2	40.3	60.5



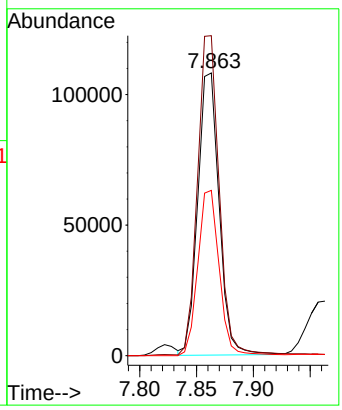


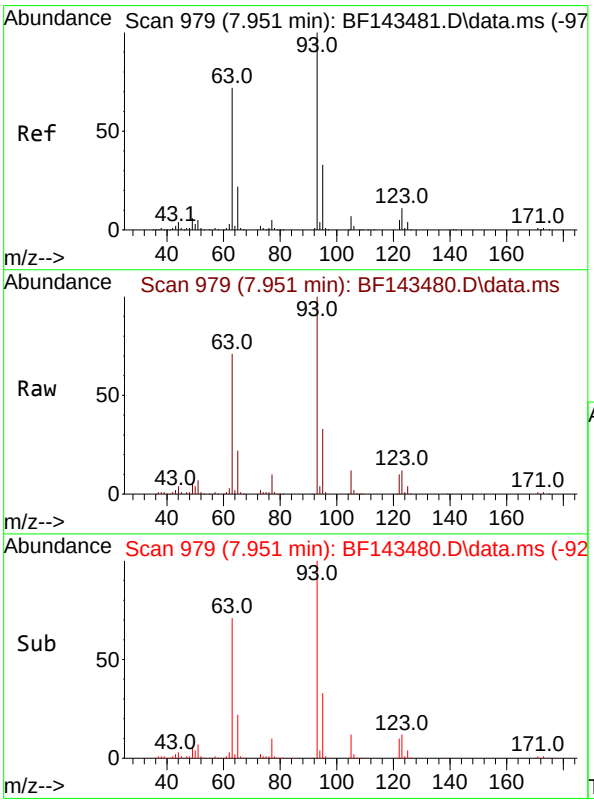
#27
2,4-Dimethylphenol
Concen: 20.897 ng
RT: 7.863 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:122 Resp: 141452

Ion	Ratio	Lower	Upper
122	100		
107	113.2	91.5	137.3
121	58.5	47.0	70.4

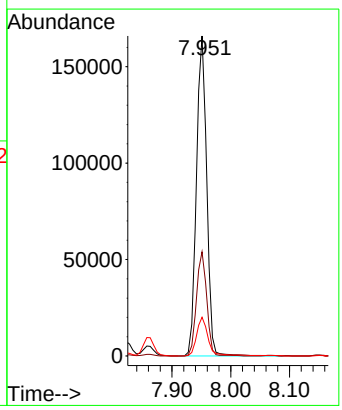


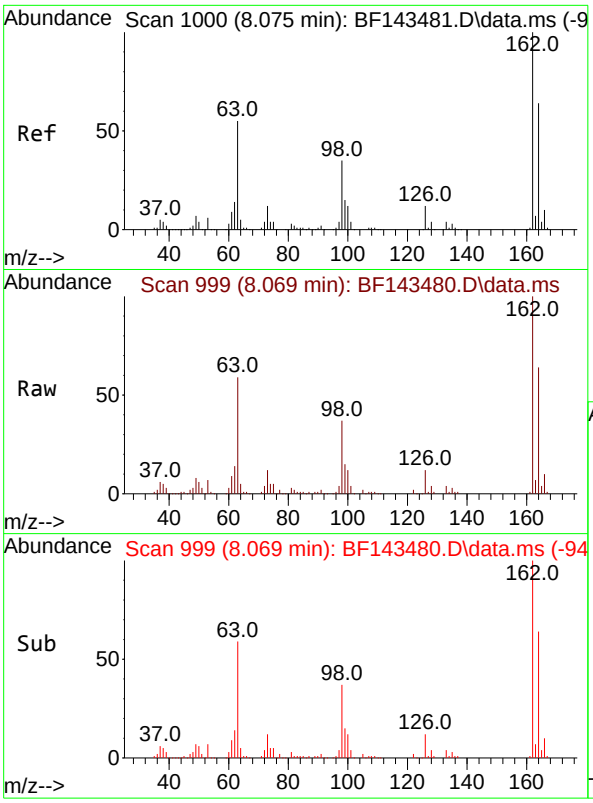


#28
bis(2-Chloroethoxy)methane
Concen: 20.776 ng
RT: 7.951 min Scan# 979
Delta R.T. -0.006 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Tgt Ion: 93 Resp: 201584

Ion	Ratio	Lower	Upper
93	100		
95	32.6	26.0	39.0
123	12.1	9.1	13.7



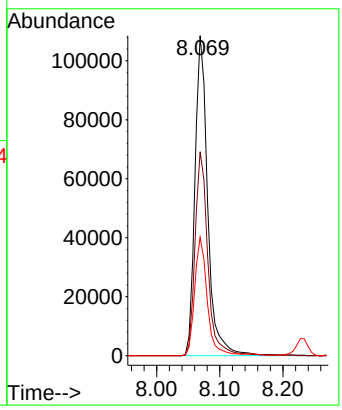


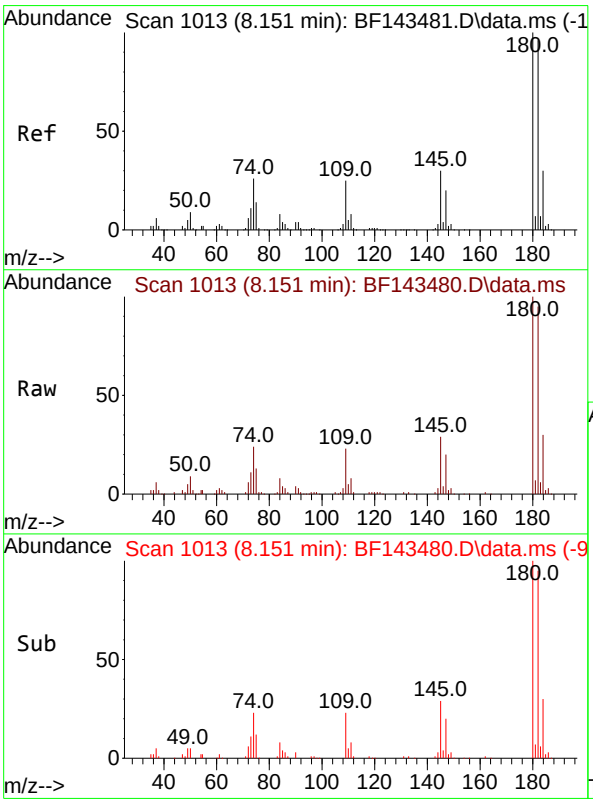
#29
2,4-Dichlorophenol
Concen: 21.055 ng
RT: 8.069 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:162 Resp: 152215

Ion	Ratio	Lower	Upper
162	100		
164	63.7	43.5	83.5
98	37.0	15.1	55.1

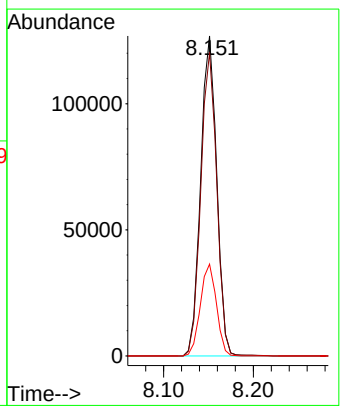


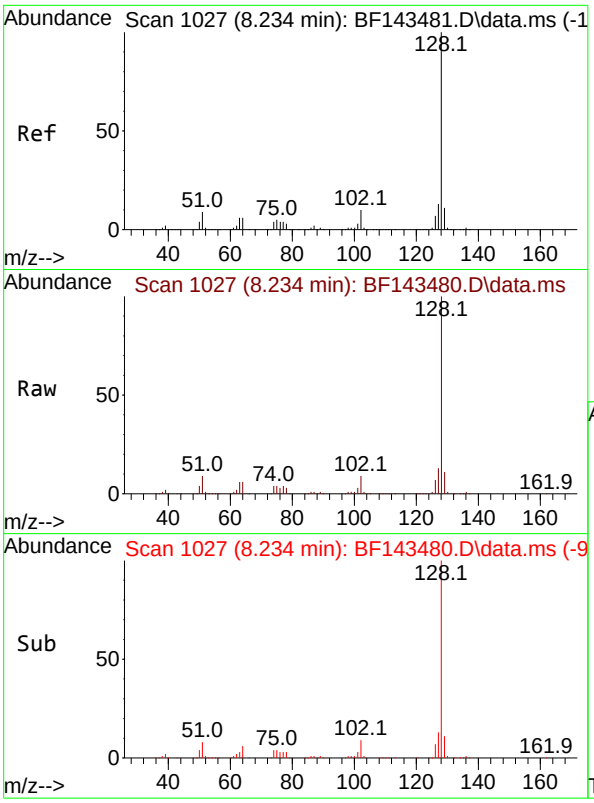


#30
1,2,4-Trichlorobenzene
Concen: 21.200 ng
RT: 8.151 min Scan# 1013
Delta R.T. -0.000 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Tgt Ion:180 Resp: 157575

Ion	Ratio	Lower	Upper
180	100		
182	94.8	76.6	114.8
145	28.7	24.3	36.5



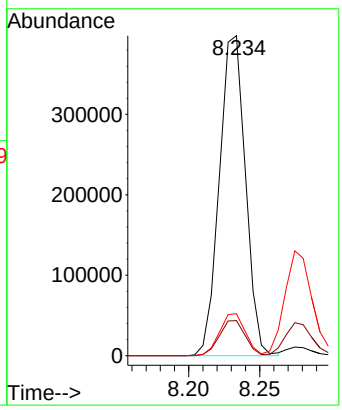


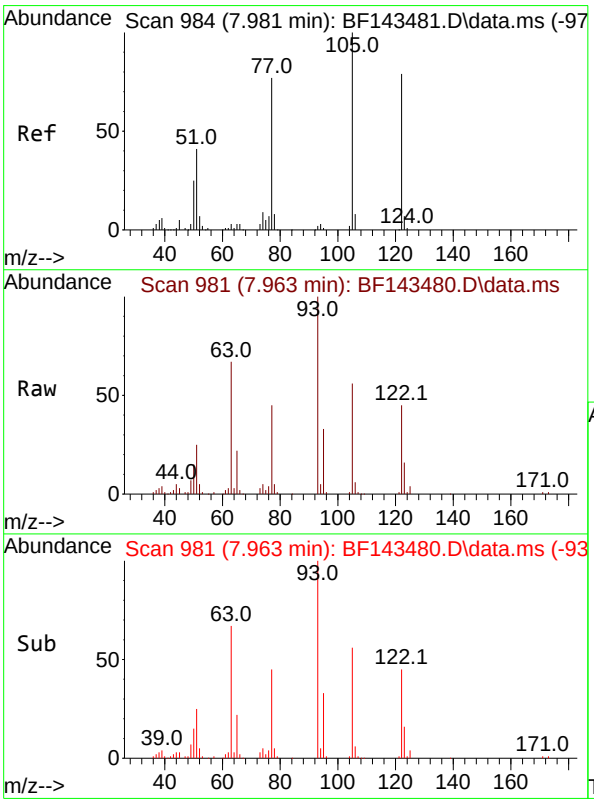
#31
Naphthalene
Concen: 21.111 ng
RT: 8.234 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:128 Resp: 509408

Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.8	13.2
127	13.1	10.6	16.0

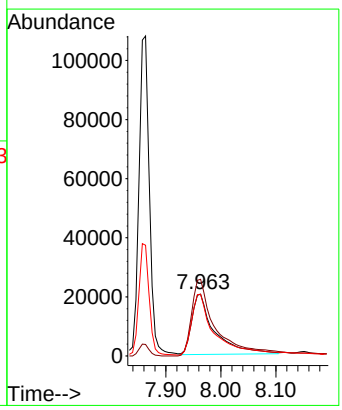


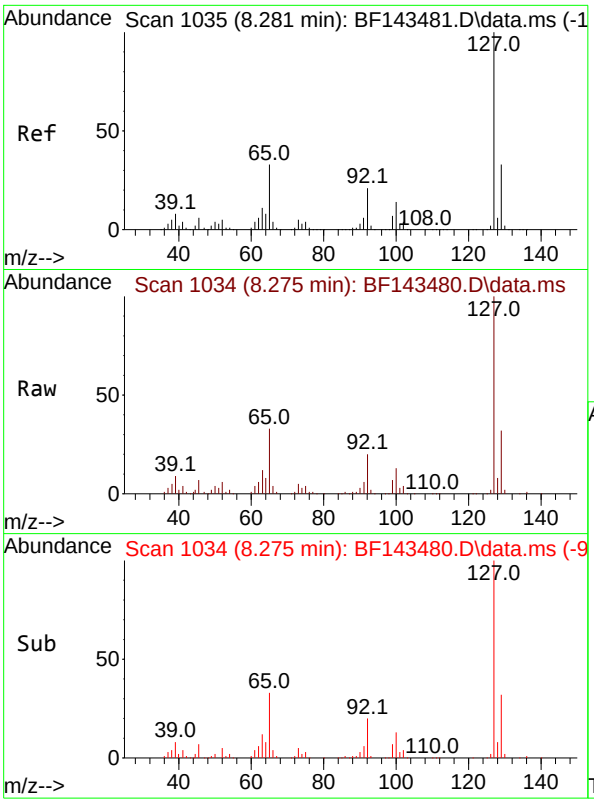


#32
Benzoic acid
Concen: 19.199 ng
RT: 7.963 min Scan# 981
Delta R.T. -0.047 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Tgt Ion:122 Resp: 58396

Ion	Ratio	Lower	Upper
122	100		
105	124.1	104.7	144.7
77	100.1	77.3	117.3



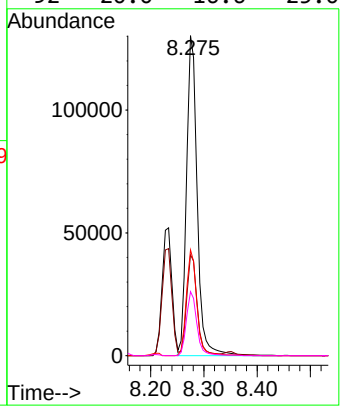


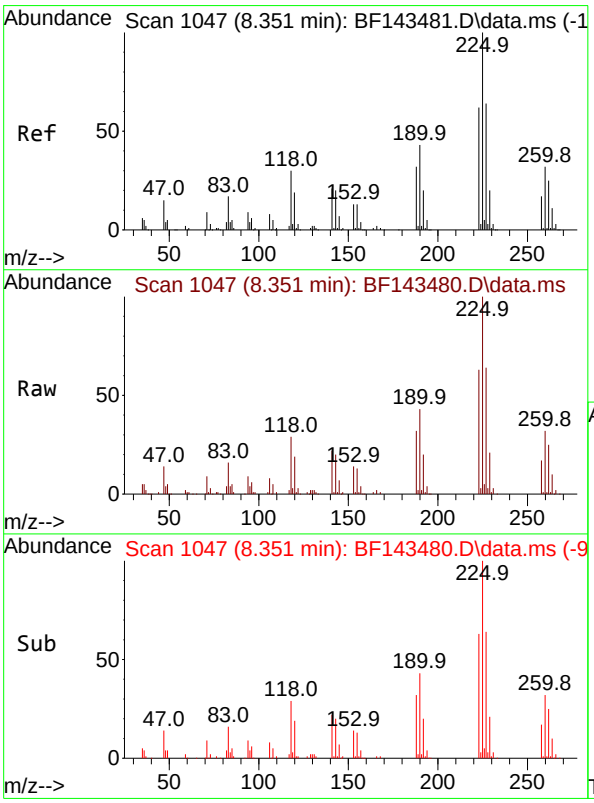
#33
4-Chloroaniline
Concen: 21.243 ng
RT: 8.275 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:127 Resp: 181928

Ion	Ratio	Lower	Upper
127	100		
129	31.5	26.1	39.1
65	33.1	26.2	39.2
92	20.0	16.6	25.0

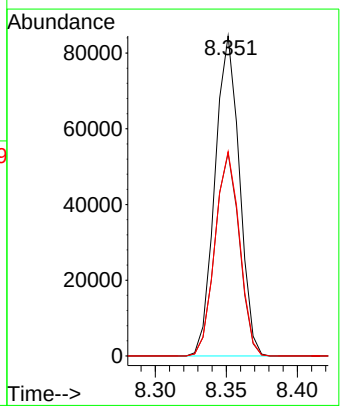


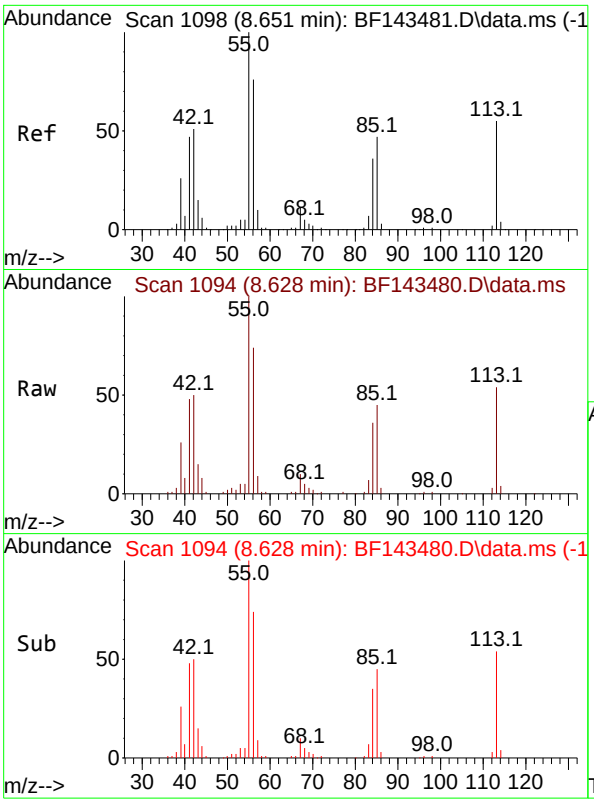


#34
Hexachlorobutadiene
Concen: 20.802 ng
RT: 8.351 min Scan# 1047
Delta R.T. -0.000 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Tgt Ion:225 Resp: 100875

Ion	Ratio	Lower	Upper
225	100		
223	63.3	49.9	74.9
227	63.9	50.9	76.3



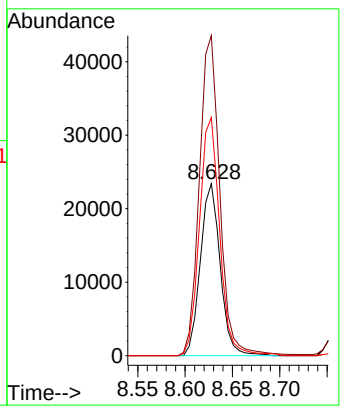


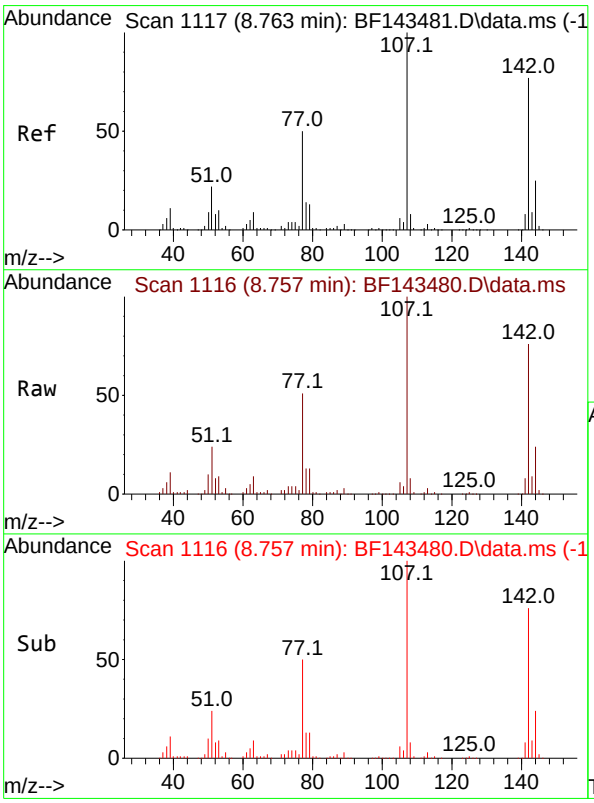
#35
Caprolactam
Concen: 19.594 ng
RT: 8.628 min Scan# 1
Delta R.T. -0.047 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:113 Resp: 33991

Ion	Ratio	Lower	Upper
113	100		
55	186.1	162.8	202.8
56	138.4	118.1	158.1

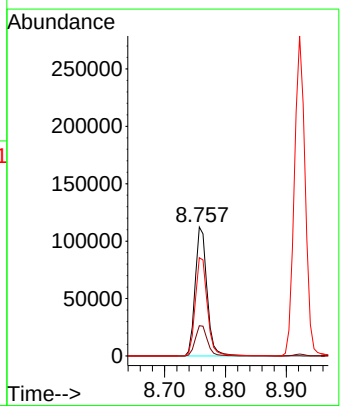


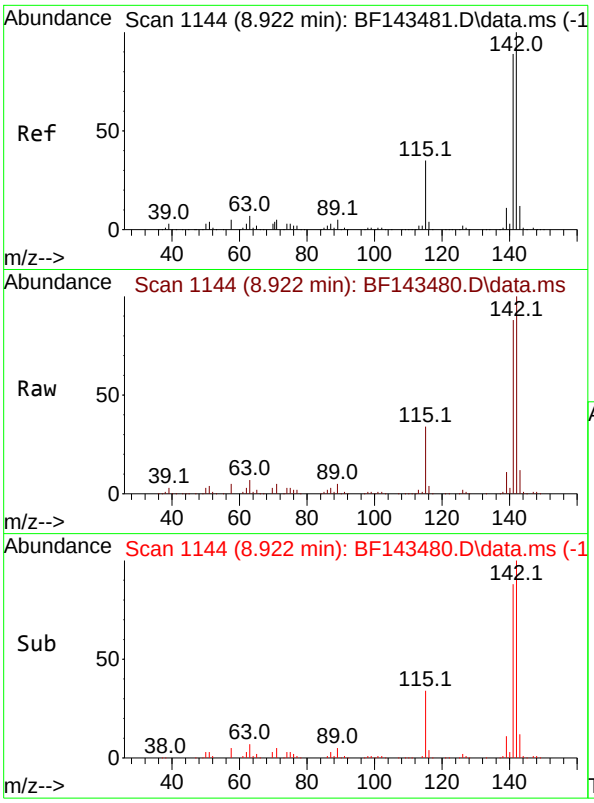


#36
4-Chloro-3-methylphenol
Concen: 21.008 ng
RT: 8.757 min Scan# 1116
Delta R.T. -0.012 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Tgt Ion:107 Resp: 152197

Ion	Ratio	Lower	Upper
107	100		
144	23.5	19.9	29.9
142	76.2	61.8	92.8



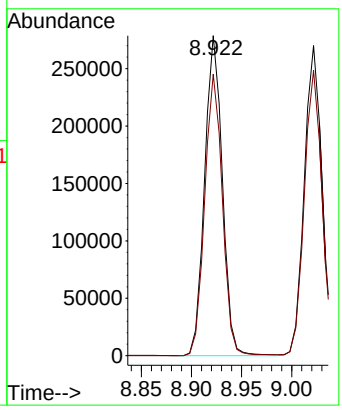


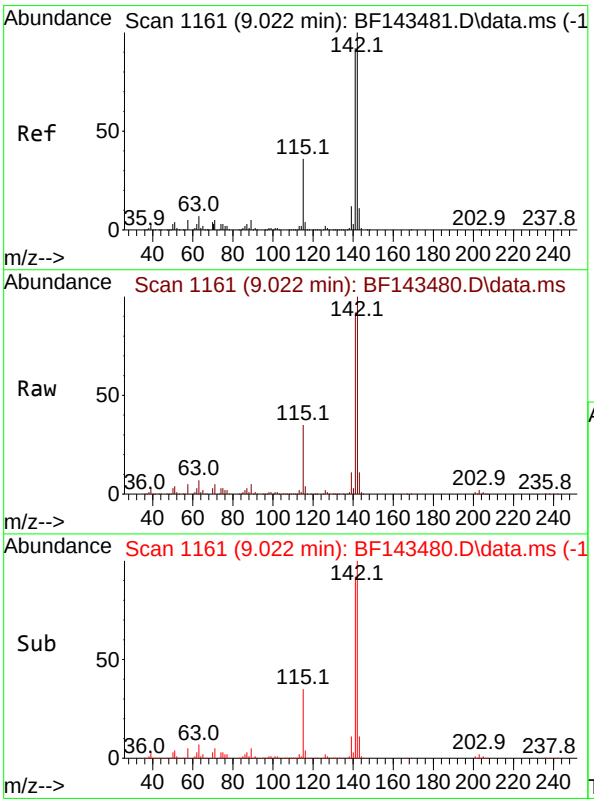
#37
2-Methylnaphthalene
Concen: 21.339 ng
RT: 8.922 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:142 Resp: 343900

Ion	Ratio	Lower	Upper
142	100		
141	88.0	71.0	106.4

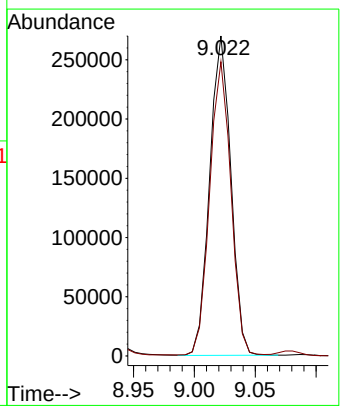


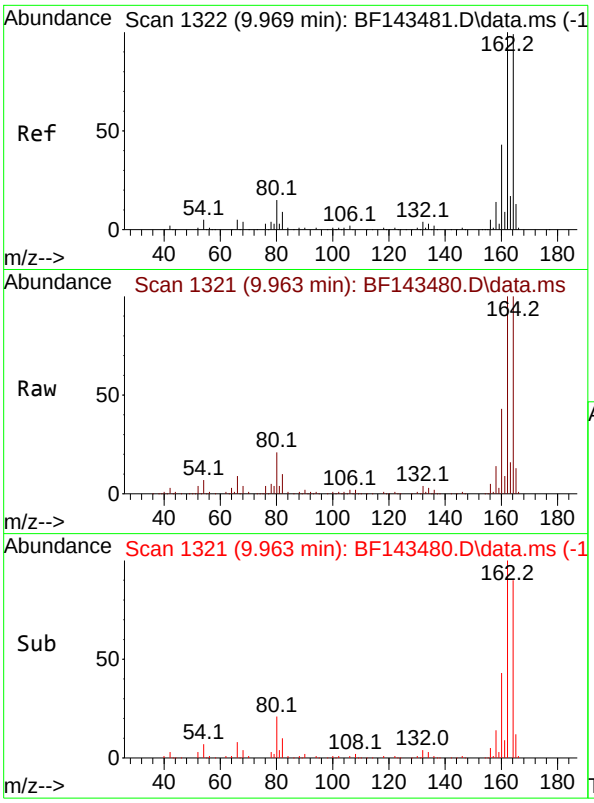


#38
1-Methylnaphthalene
Concen: 21.191 ng
RT: 9.022 min Scan# 1161
Delta R.T. -0.006 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Tgt Ion:142 Resp: 326683

Ion	Ratio	Lower	Upper
142	100		
141	92.0	73.3	109.9



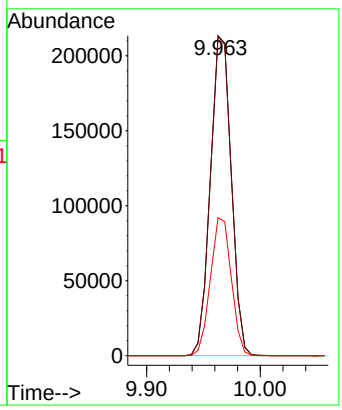


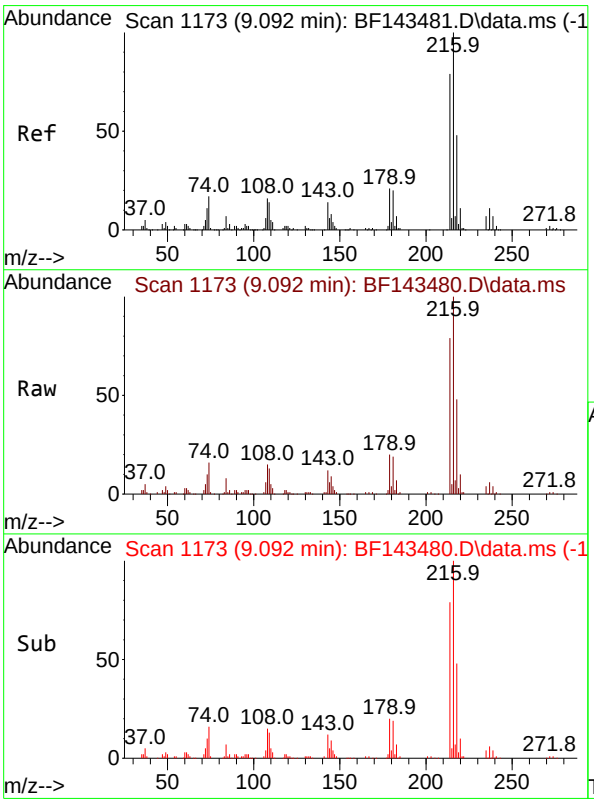
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.963 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:164 Resp: 273375

Ion	Ratio	Lower	Upper
164	100		
162	99.7	80.5	120.7
160	43.1	34.3	51.5

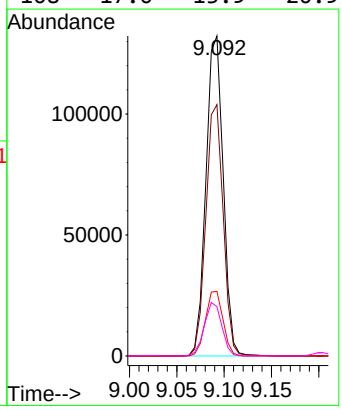


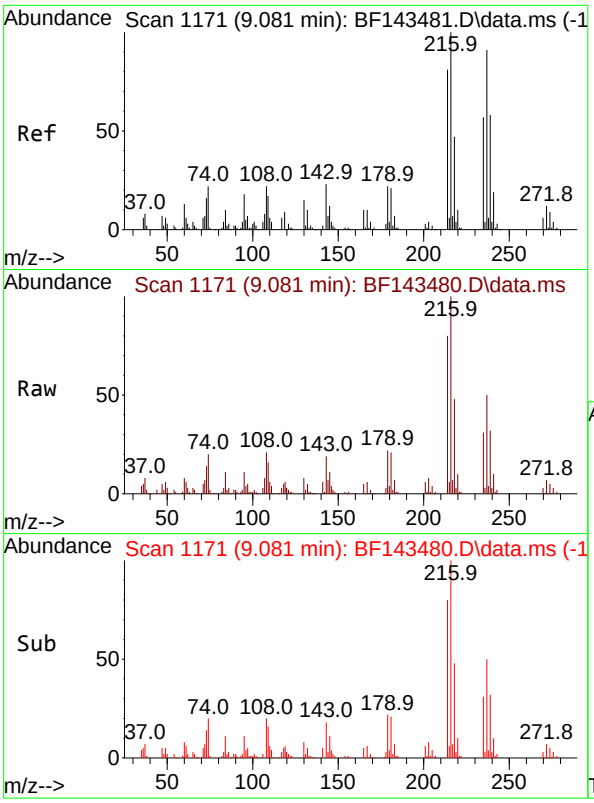


#40
1,2,4,5-Tetrachlorobenzene
Concen: 21.445 ng
RT: 9.092 min Scan# 1173
Delta R.T. -0.000 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Tgt Ion:216 Resp: 167691

Ion	Ratio	Lower	Upper
216	100		
214	78.9	63.4	95.0
179	20.5	16.5	24.7
108	17.0	13.9	20.9



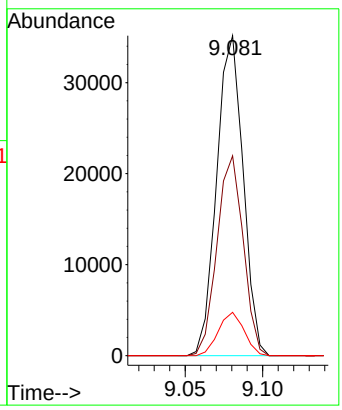


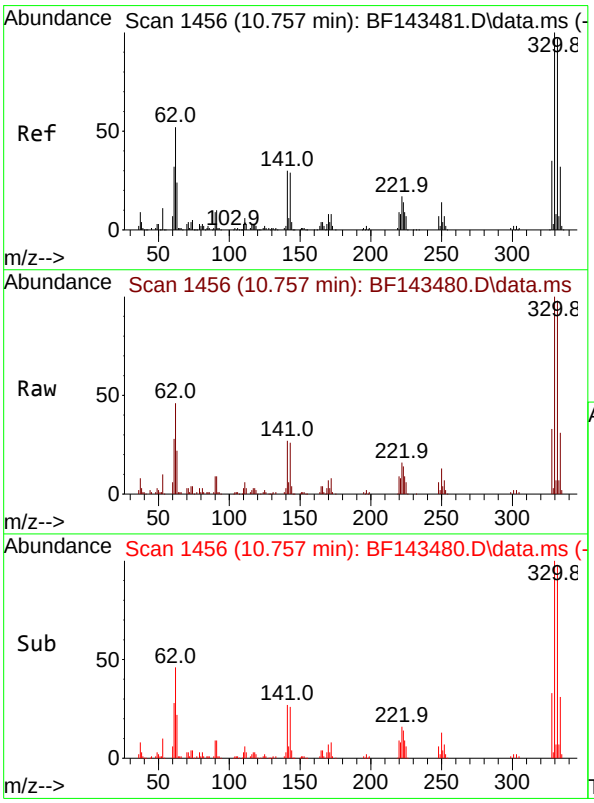
#41
Hexachlorocyclopentadiene
Concen: 19.072 ng
RT: 9.081 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:237 Resp: 41723

Ion	Ratio	Lower	Upper
237	100		
235	62.5	42.6	82.6
272	13.5	0.0	33.4

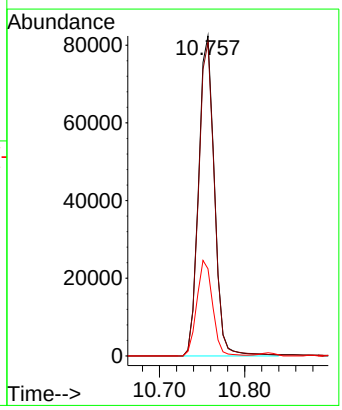


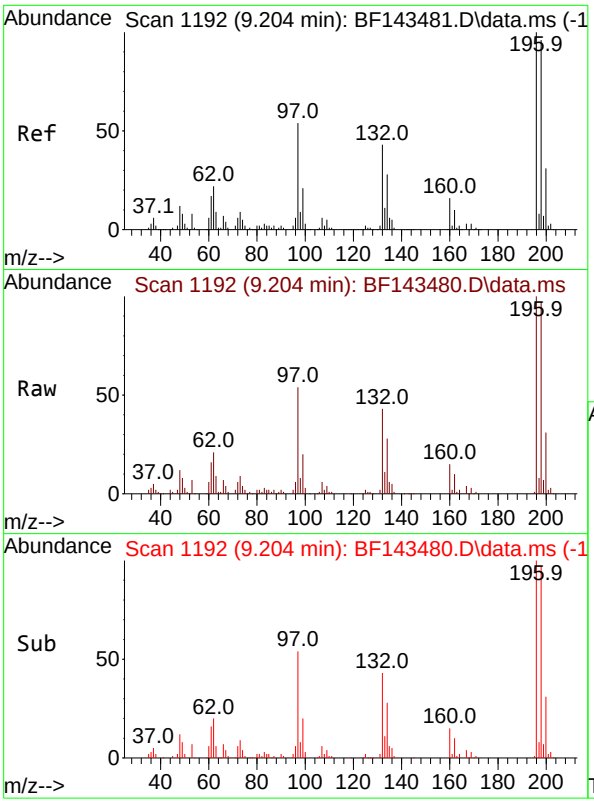


#42
2,4,6-Tribromophenol
Concen: 41.663 ng
RT: 10.757 min Scan# 1456
Delta R.T. -0.006 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Tgt Ion:330 Resp: 106021

Ion	Ratio	Lower	Upper
330	100		
332	98.1	78.0	117.0
141	29.9	23.7	35.5



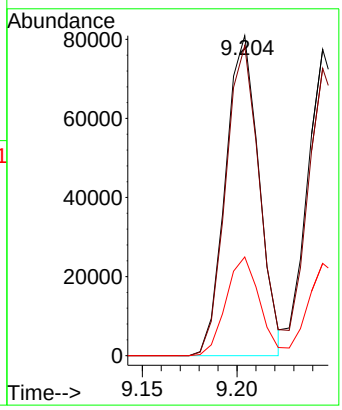


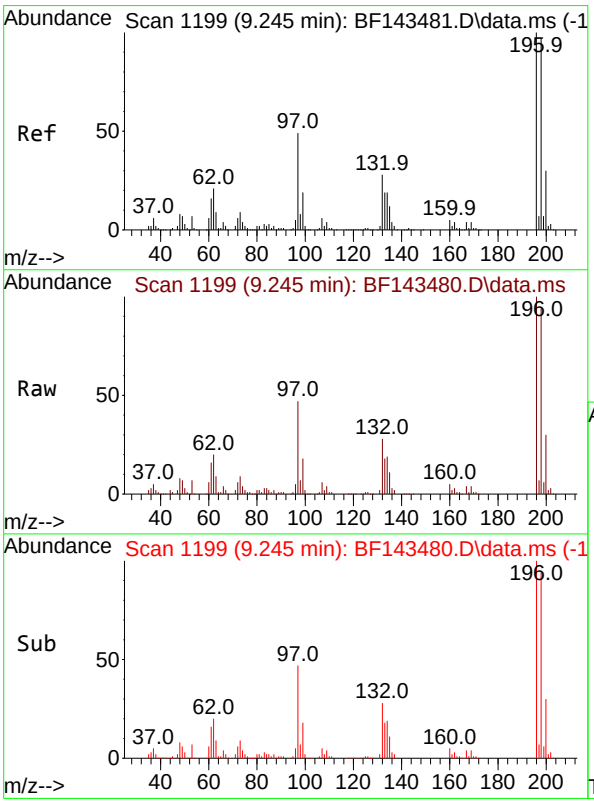
#43
2,4,6-Trichlorophenol
Concen: 20.683 ng
RT: 9.204 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:196 Resp: 99517

Ion	Ratio	Lower	Upper
196	100		
198	96.9	77.0	115.4
200	30.9	24.6	37.0

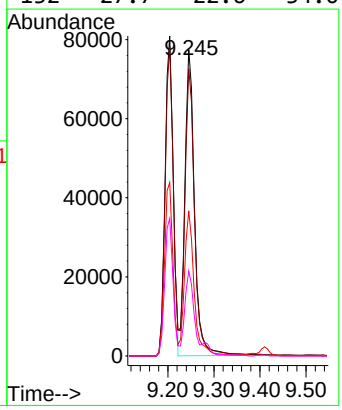


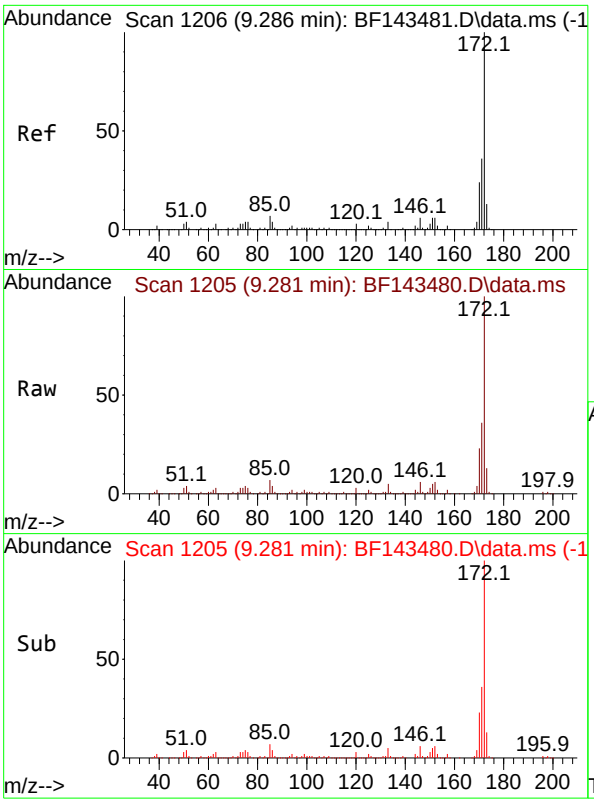


#44
2,4,5-Trichlorophenol
Concen: 21.488 ng
RT: 9.245 min Scan# 1199
Delta R.T. -0.006 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Tgt Ion:196 Resp: 112939

Ion	Ratio	Lower	Upper
196	100		
198	93.8	77.3	115.9
97	47.4	40.0	60.0
132	27.7	22.6	34.0



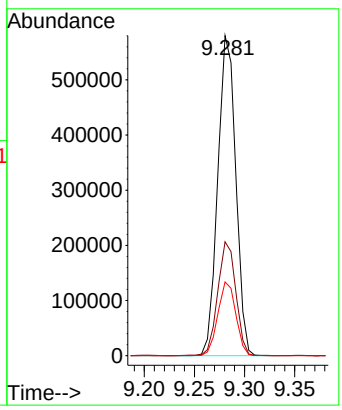


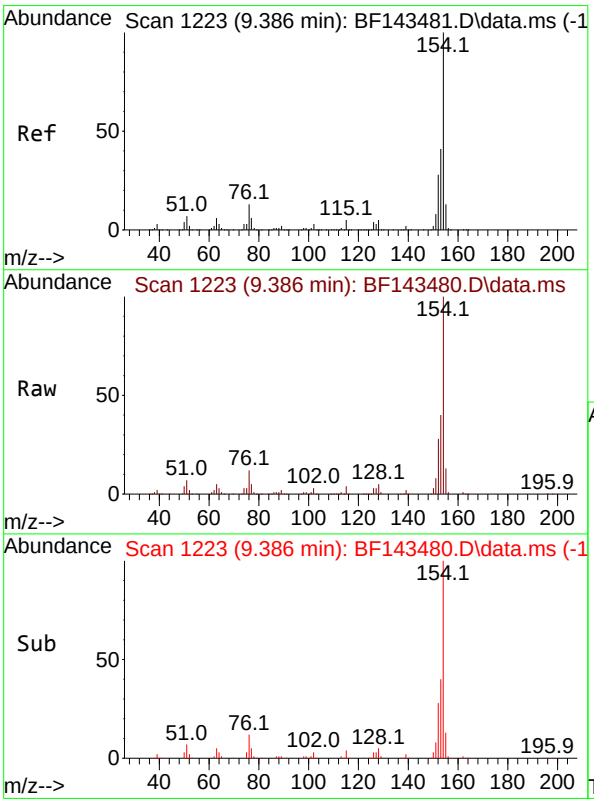
#45
2-Fluorobiphenyl
Concen: 43.723 ng
RT: 9.281 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:172 Resp: 723237

Ion	Ratio	Lower	Upper
172	100		
171	35.6	28.8	43.2
170	23.0	18.8	28.2

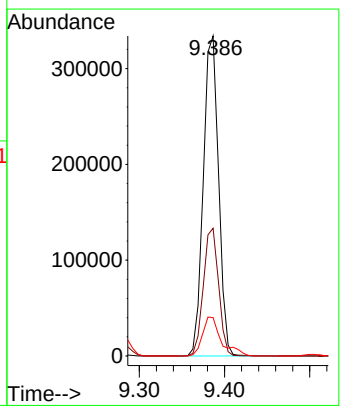


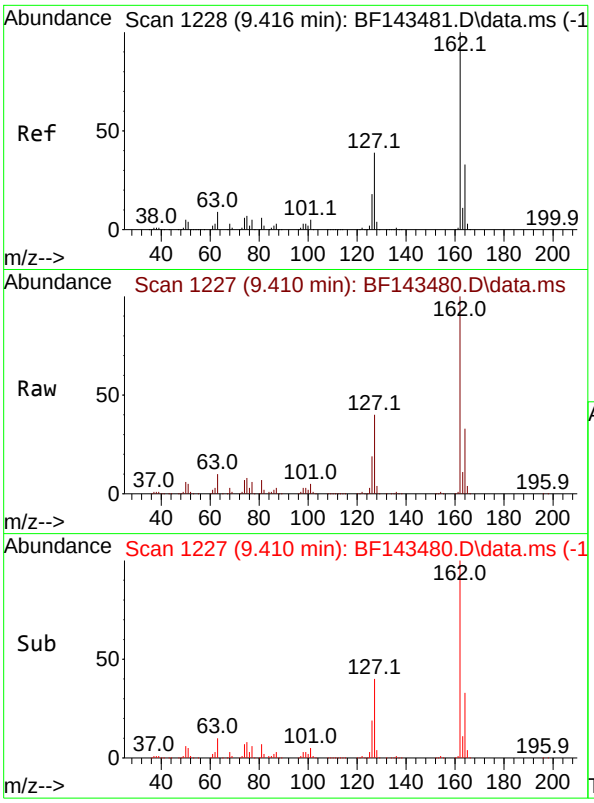


#46
1,1'-Biphenyl
Concen: 21.403 ng
RT: 9.386 min Scan# 1223
Delta R.T. -0.006 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Tgt Ion:154 Resp: 415294

Ion	Ratio	Lower	Upper
154	100		
153	39.9	20.6	60.6
76	12.0	0.0	33.0



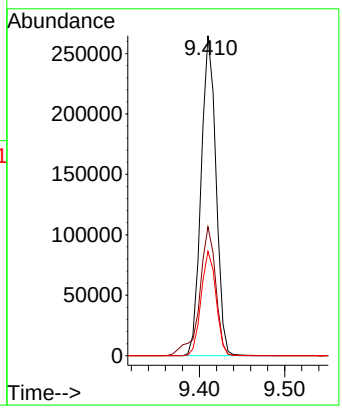


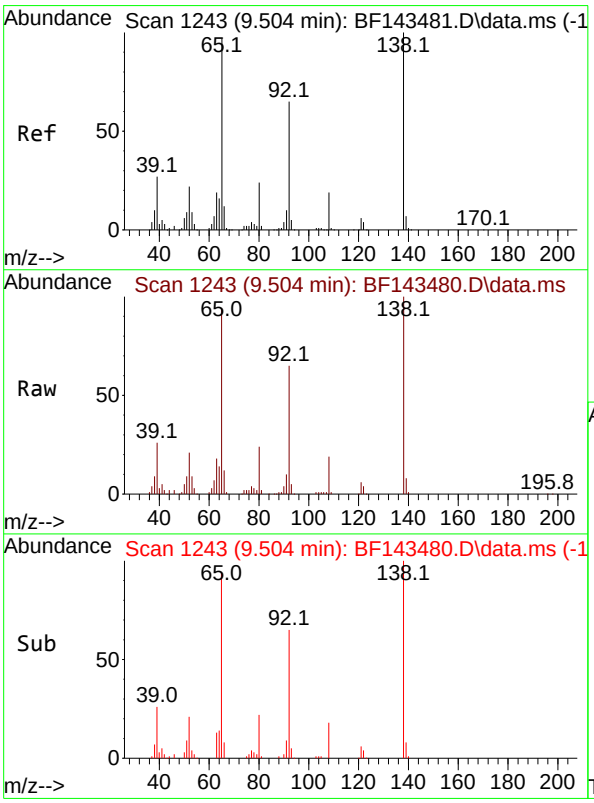
#47
2-Chloronaphthalene
Concen: 21.037 ng
RT: 9.410 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:162 Resp: 320277

Ion	Ratio	Lower	Upper
162	100		
127	40.3	31.8	47.6
164	32.6	26.4	39.6

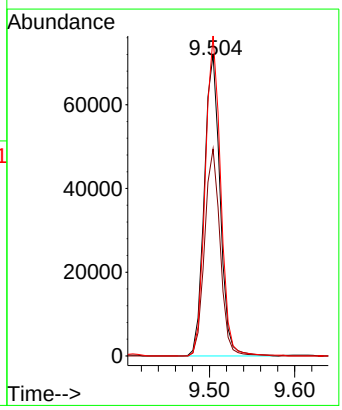


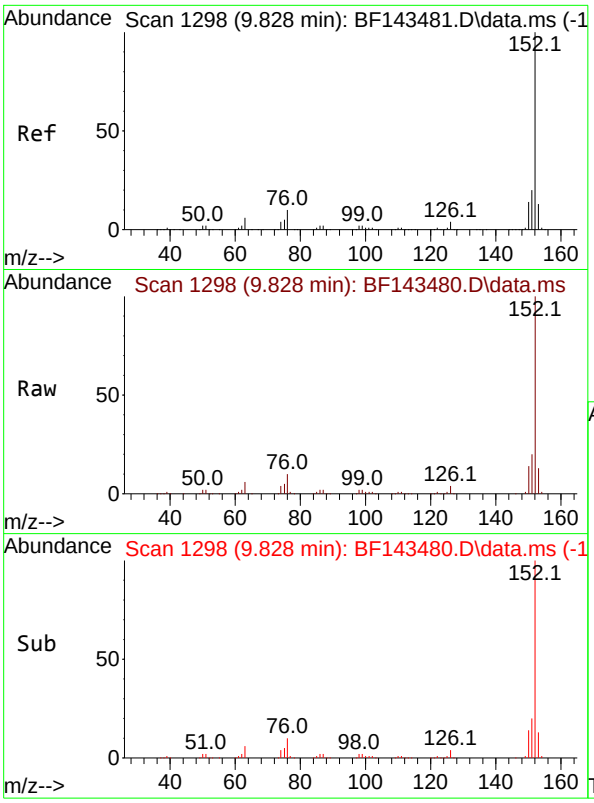


#48
2-Nitroaniline
Concen: 20.753 ng
RT: 9.504 min Scan# 1243
Delta R.T. -0.006 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Tgt Ion: 65 Resp: 92468

Ion	Ratio	Lower	Upper
65	100		
92	68.6	53.8	80.6
138	106.0	82.4	123.6



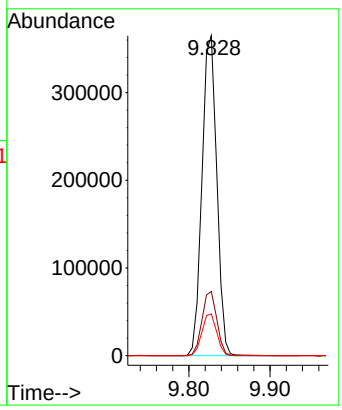


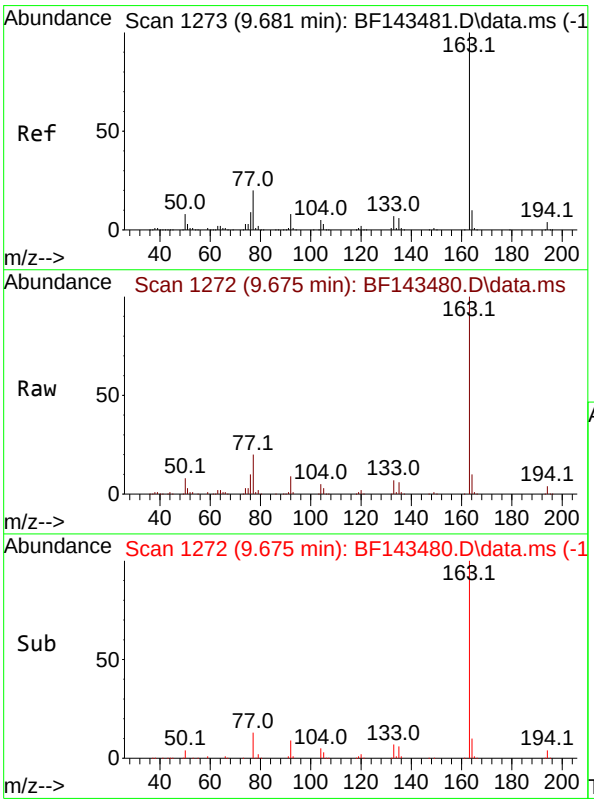
#49
Acenaphthylene
Concen: 21.158 ng
RT: 9.828 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:152 Resp: 461236

Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.2	24.4
153	13.1	10.6	15.8

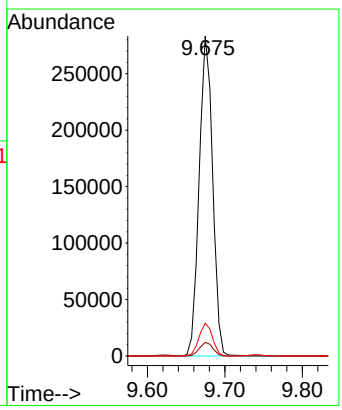


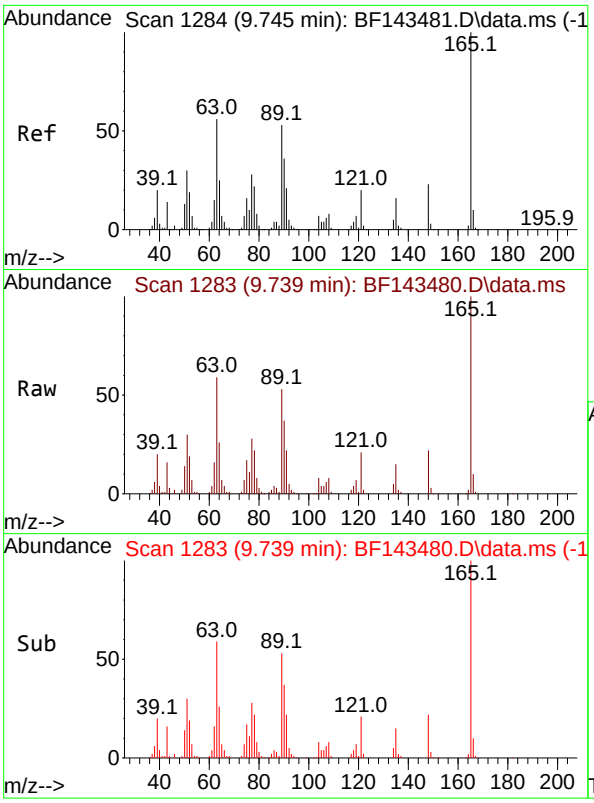


#50
Dimethylphthalate
Concen: 20.788 ng
RT: 9.675 min Scan# 1272
Delta R.T. -0.006 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Tgt Ion:163 Resp: 342268

Ion	Ratio	Lower	Upper
163	100		
194	4.3	3.4	5.0
164	10.3	8.2	12.2



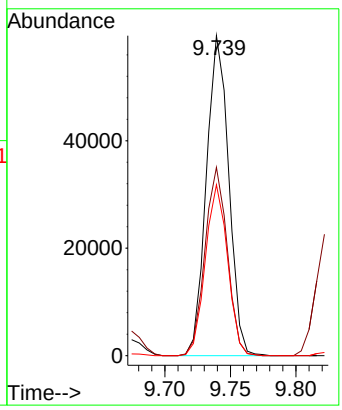


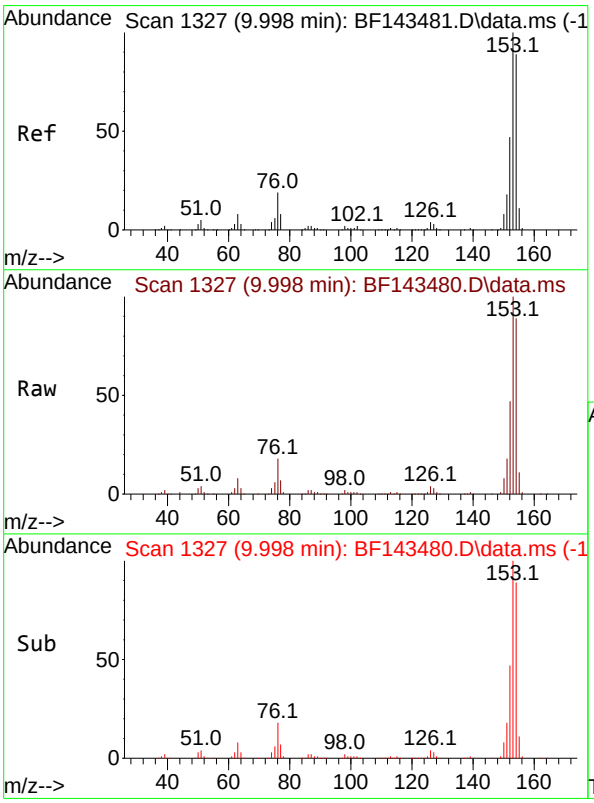
#51
2,6-Dinitrotoluene
Concen: 20.723 ng
RT: 9.739 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:165 Resp: 70716

Ion	Ratio	Lower	Upper
165	100		
63	58.9	45.0	67.6
89	53.4	42.5	63.7

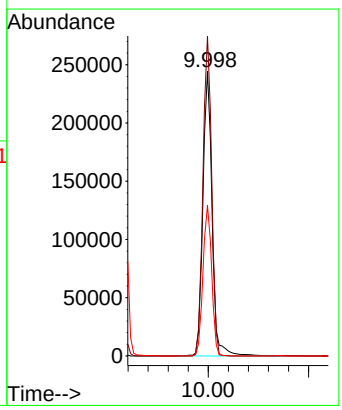


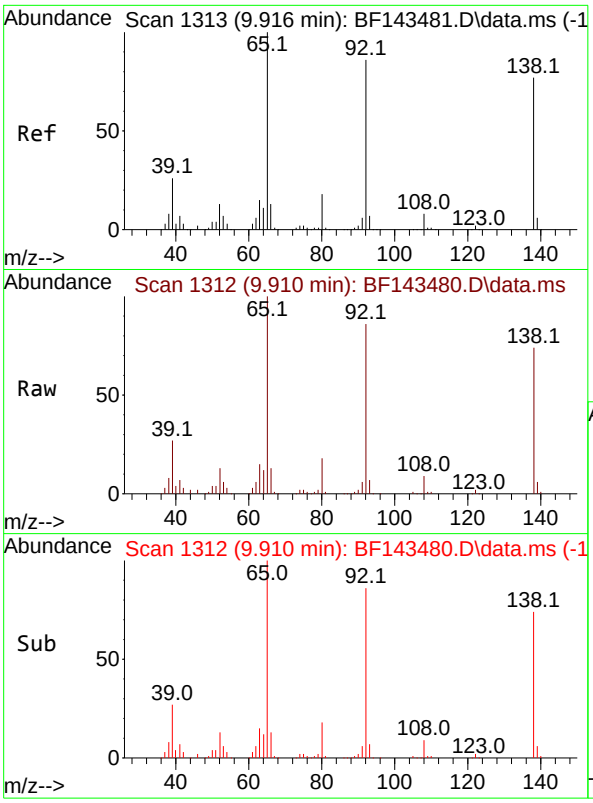


#52
Acenaphthene
Concen: 20.998 ng
RT: 9.998 min Scan# 1327
Delta R.T. -0.006 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Tgt Ion:154 Resp: 310782

Ion	Ratio	Lower	Upper
154	100		
153	112.5	89.5	134.3
152	52.9	42.5	63.7



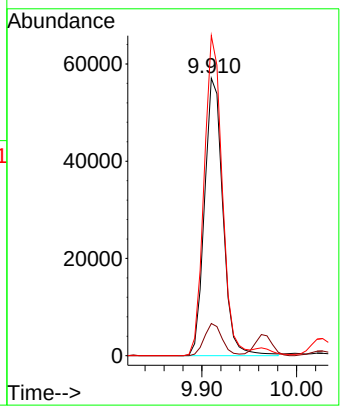


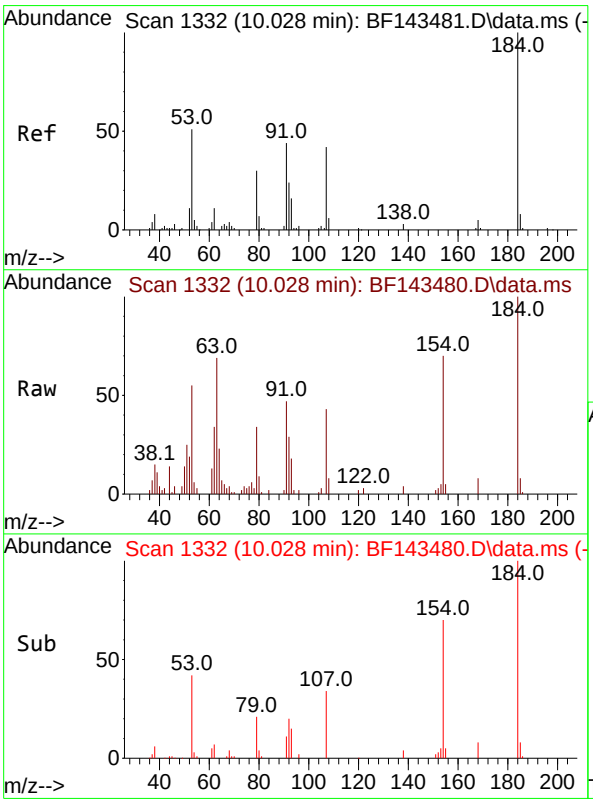
#53
3-Nitroaniline
Concen: 20.791 ng
RT: 9.910 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:138 Resp: 76663

Ion	Ratio	Lower	Upper
138	100		
108	11.6	8.6	13.0
92	115.3	89.8	134.8

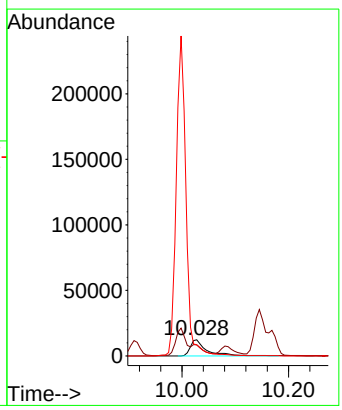


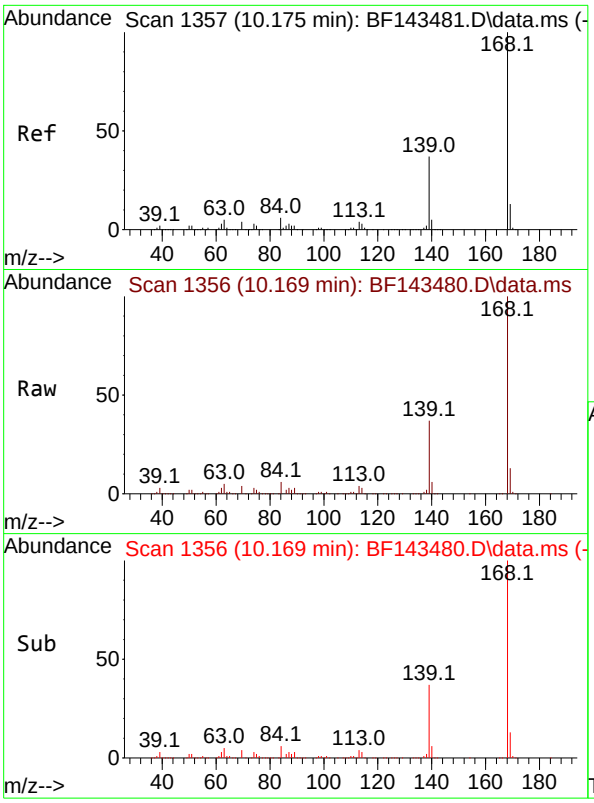


#54
2,4-Dinitrophenol
Concen: 19.096 ng
RT: 10.028 min Scan# 1332
Delta R.T. -0.000 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Tgt Ion:184 Resp: 26974

Ion	Ratio	Lower	Upper
184	100		
63	68.7	52.6	78.8
154	69.6	51.0	76.4



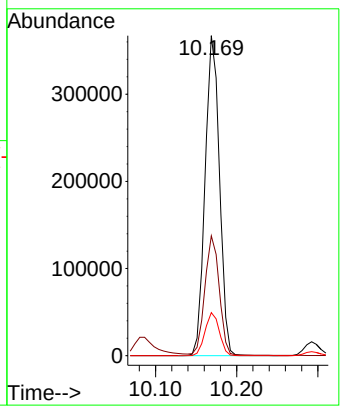


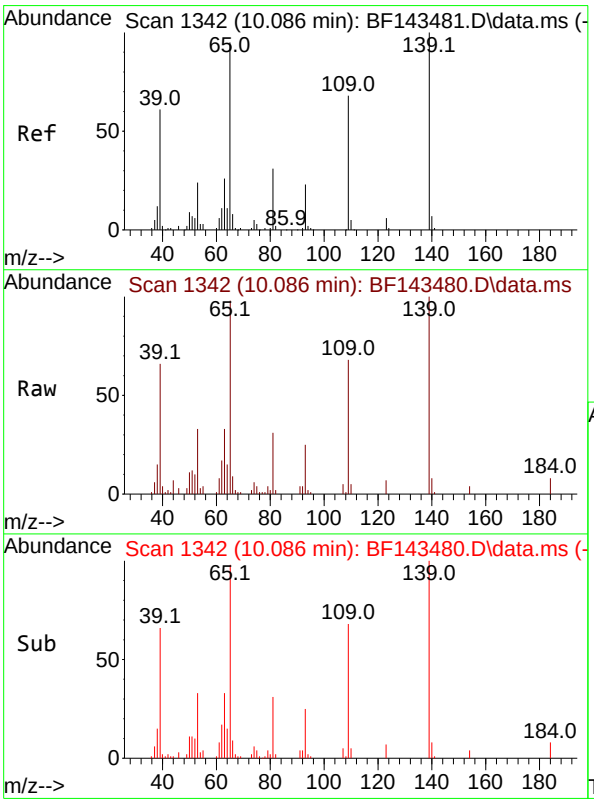
#55
Dibenzofuran
Concen: 21.335 ng
RT: 10.169 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:168 Resp: 450207

Ion	Ratio	Lower	Upper
168	100		
139	37.4	29.8	44.6
169	13.5	10.8	16.2

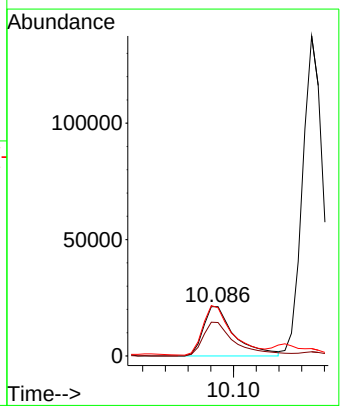


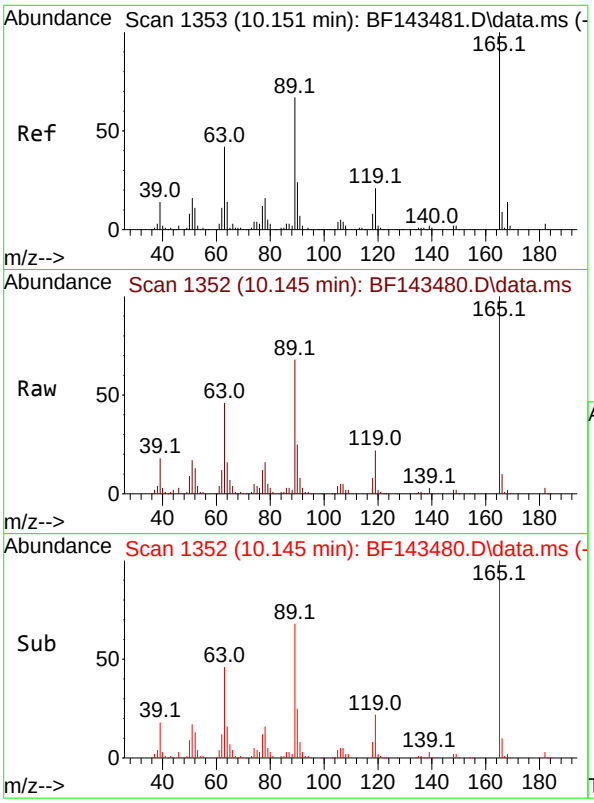


#56
4-Nitrophenol
Concen: 18.359 ng
RT: 10.086 min Scan# 1342
Delta R.T. 0.000 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Tgt Ion:139 Resp: 40278

Ion	Ratio	Lower	Upper
139	100		
109	67.8	48.2	88.2
65	97.6	75.8	115.8



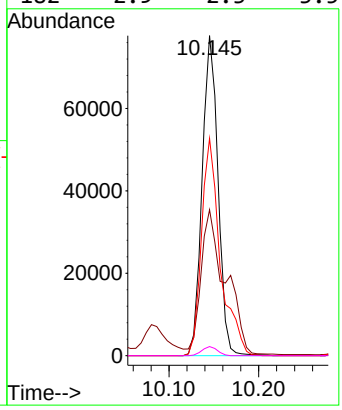


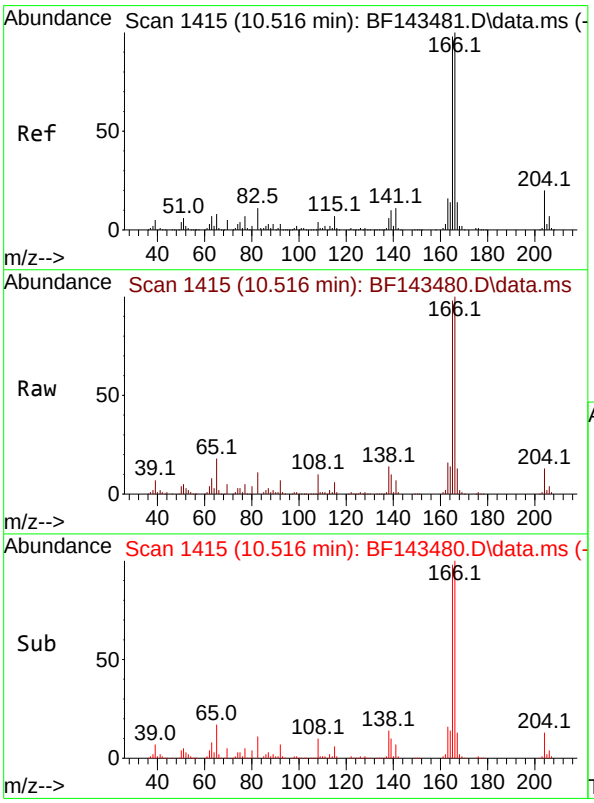
#57
2,4-Dinitrotoluene
Concen: 20.923 ng
RT: 10.145 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:165 Resp: 95333

Ion	Ratio	Lower	Upper
165	100		
63	45.6	34.9	52.3
89	67.9	53.3	79.9
182	2.9	2.3	3.5

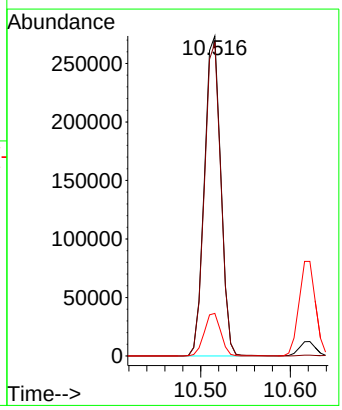


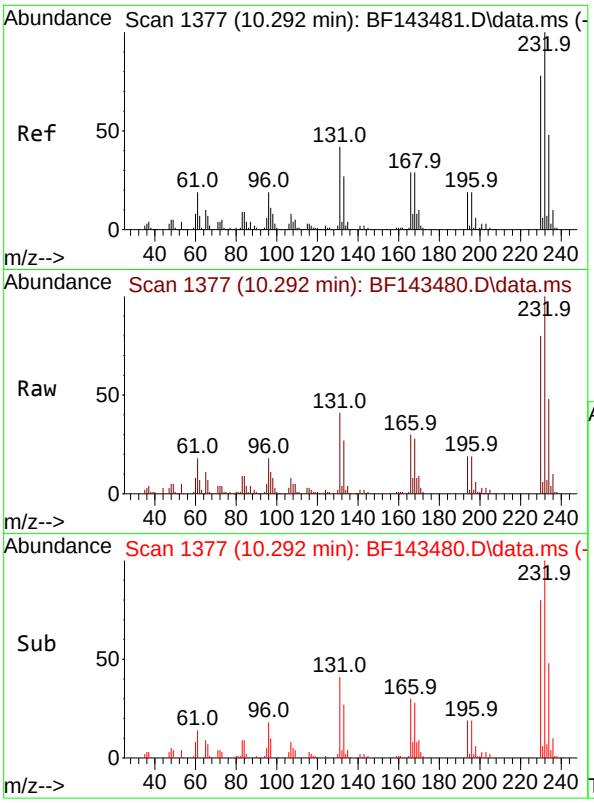


#58
Fluorene
Concen: 21.370 ng
RT: 10.516 min Scan# 1415
Delta R.T. -0.006 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Tgt Ion:166 Resp: 347075

Ion	Ratio	Lower	Upper
166	100		
165	97.8	78.3	117.5
167	13.3	11.0	16.4



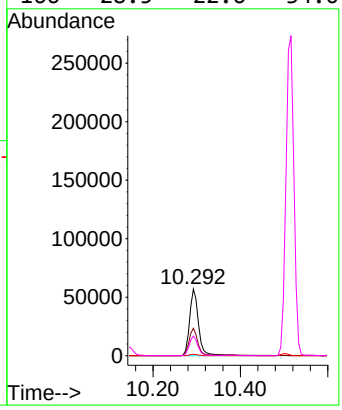


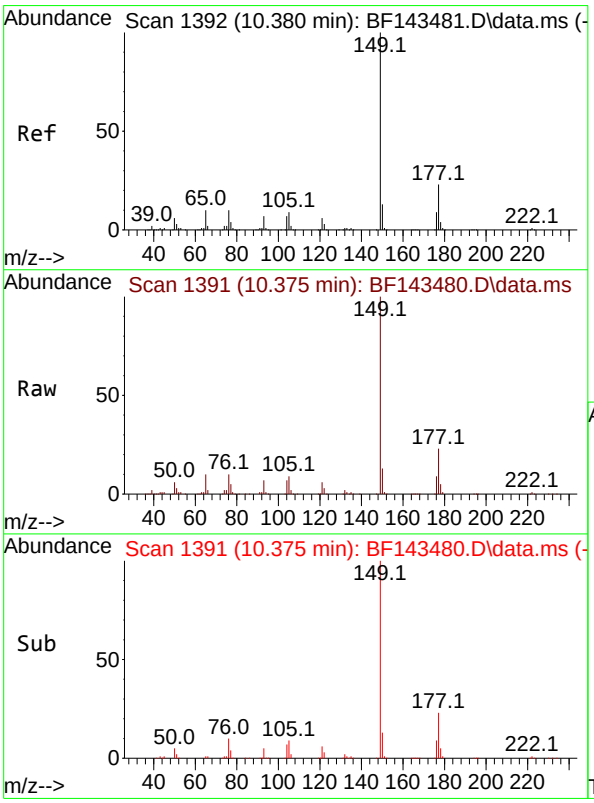
#59
2,3,4,6-Tetrachlorophenol
Concen: 20.905 ng
RT: 10.292 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:232 Resp: 81629

Ion	Ratio	Lower	Upper
232	100		
131	39.8	32.7	49.1
130	1.8	1.6	2.4
166	28.5	22.6	34.0

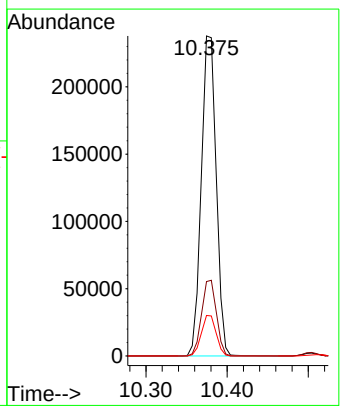


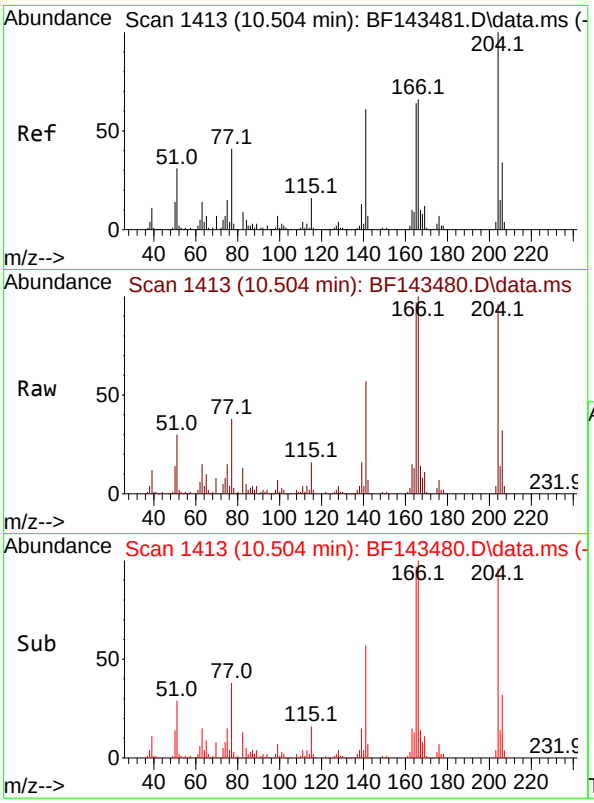


#60
Diethylphthalate
Concen: 20.558 ng
RT: 10.375 min Scan# 1391
Delta R.T. -0.012 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Tgt Ion:149 Resp: 303476

Ion	Ratio	Lower	Upper
149	100		
177	23.2	18.3	27.5
150	12.7	10.3	15.5



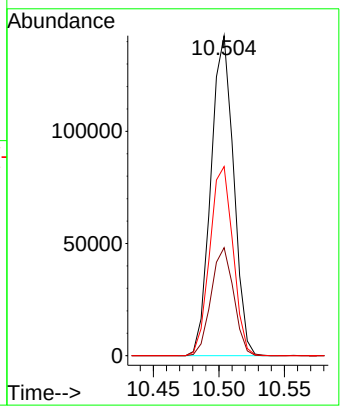


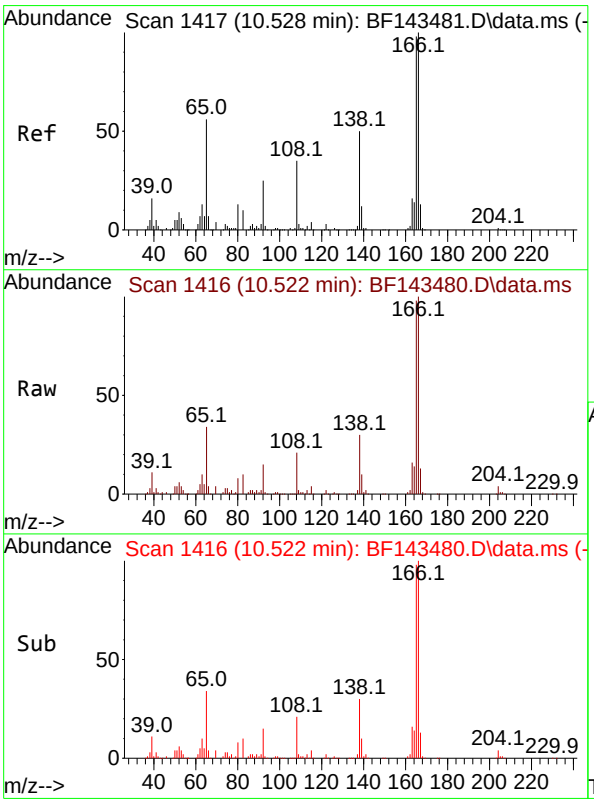
#61
4-Chlorophenyl-phenylether
Concen: 21.142 ng
RT: 10.504 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:204 Resp: 171724

Ion	Ratio	Lower	Upper
204	100		
206	33.7	27.0	40.4
141	59.1	48.7	73.1

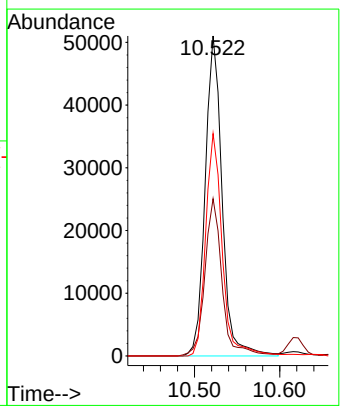


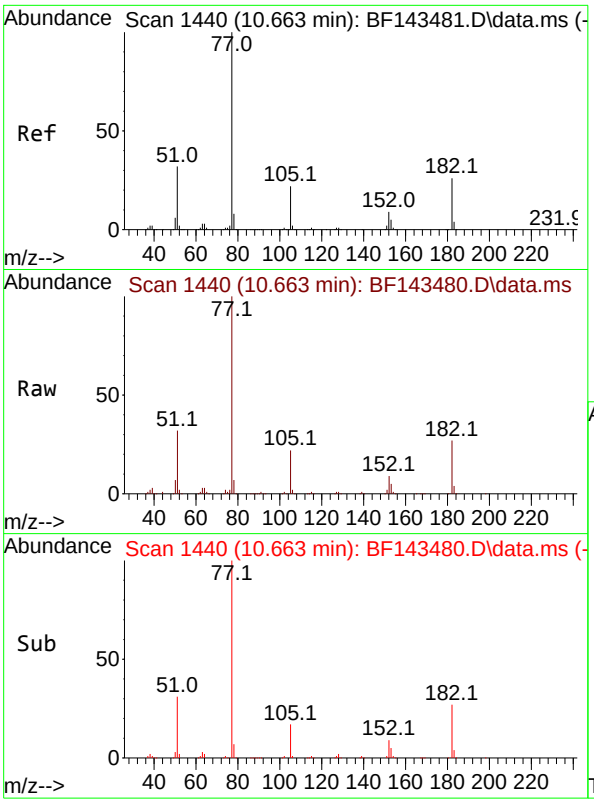


#62
4-Nitroaniline
Concen: 20.840 ng
RT: 10.522 min Scan# 1416
Delta R.T. -0.018 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Tgt Ion:138 Resp: 70583

Ion	Ratio	Lower	Upper
138	100		
92	49.1	29.3	69.3
108	69.5	50.7	90.7



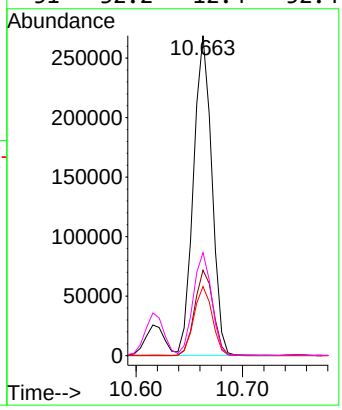


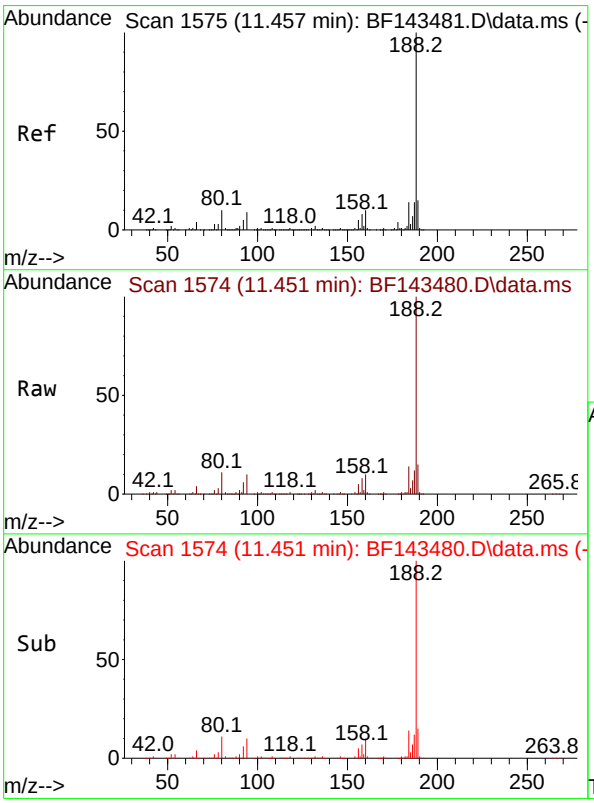
#63
Azobenzene
Concen: 21.019 ng
RT: 10.663 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion: 77 Resp: 321721

Ion	Ratio	Lower	Upper
77	100		
182	26.7	6.2	46.2
105	21.6	2.2	42.2
51	32.2	12.4	52.4

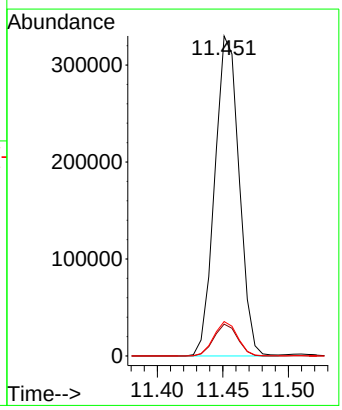


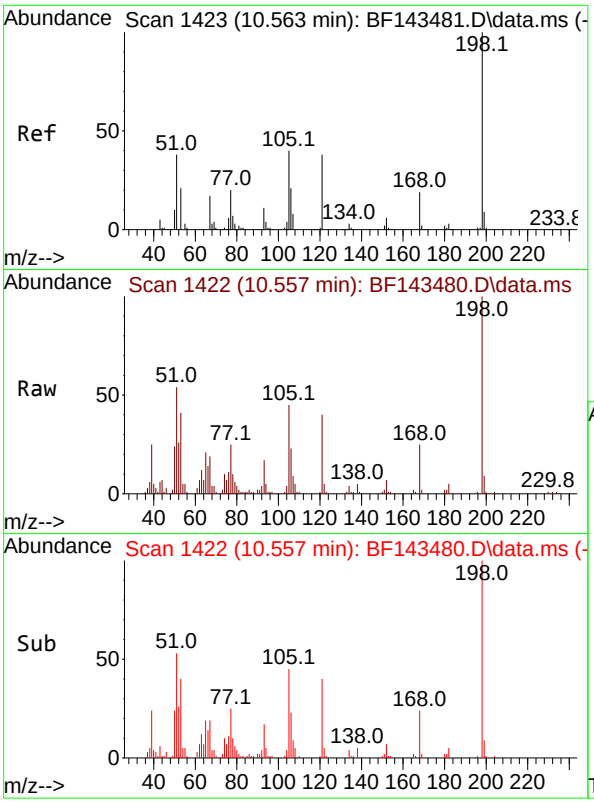


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.451 min Scan# 1574
Delta R.T. -0.006 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Tgt Ion:188 Resp: 425626

Ion	Ratio	Lower	Upper
188	100		
94	10.0	7.4	11.2
80	10.8	8.2	12.4



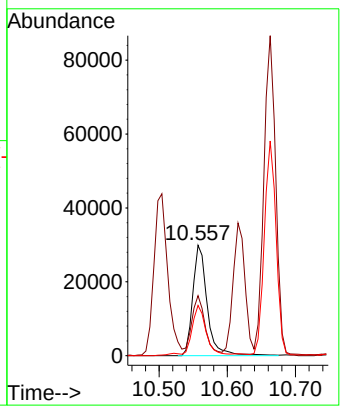


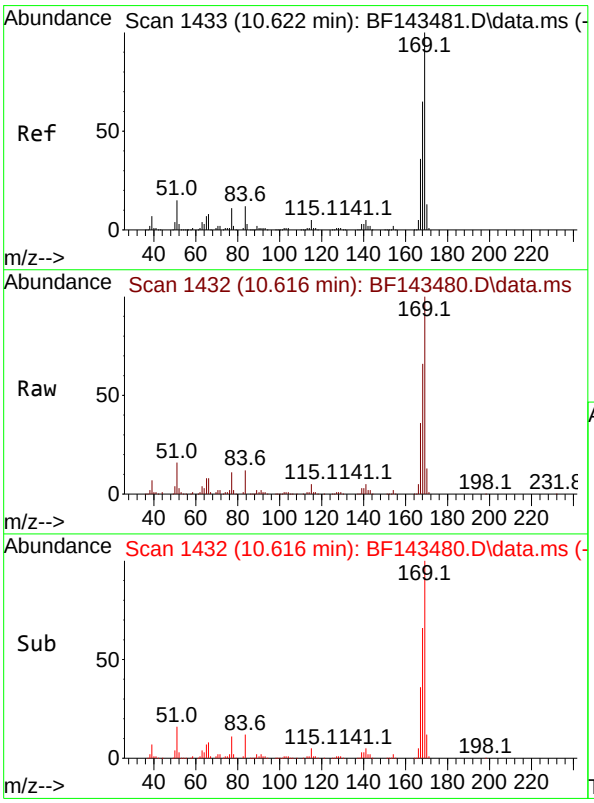
#65
4,6-Dinitro-2-methylphenol
Concen: 18.261 ng
RT: 10.557 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:198 Resp: 43824

Ion	Ratio	Lower	Upper
198	100		
51	54.3	29.6	69.6
105	45.5	21.5	61.5

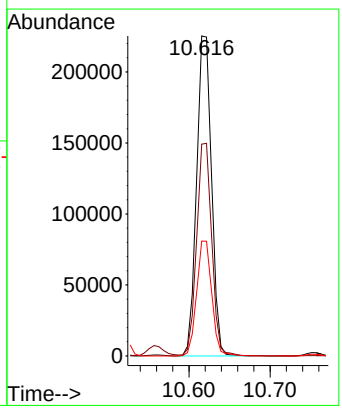


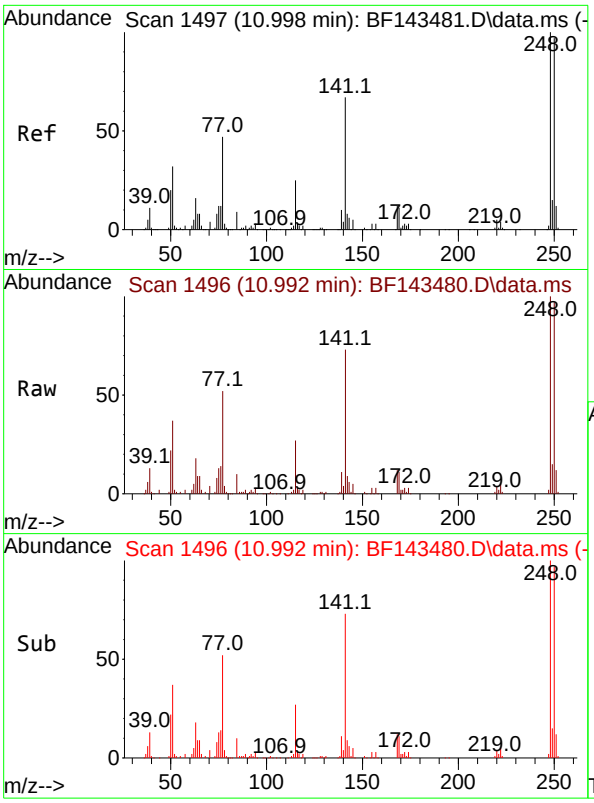


#66
n-Nitrosodiphenylamine
Concen: 21.089 ng
RT: 10.616 min Scan# 1432
Delta R.T. -0.012 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Tgt Ion:169 Resp: 288871

Ion	Ratio	Lower	Upper
169	100		
168	66.2	52.4	78.6
167	35.9	28.9	43.3



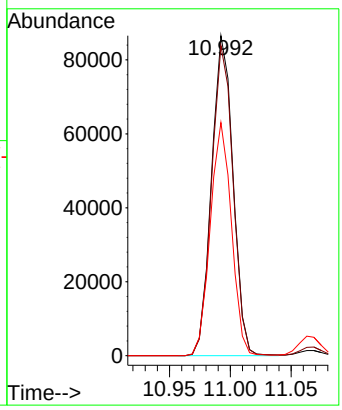


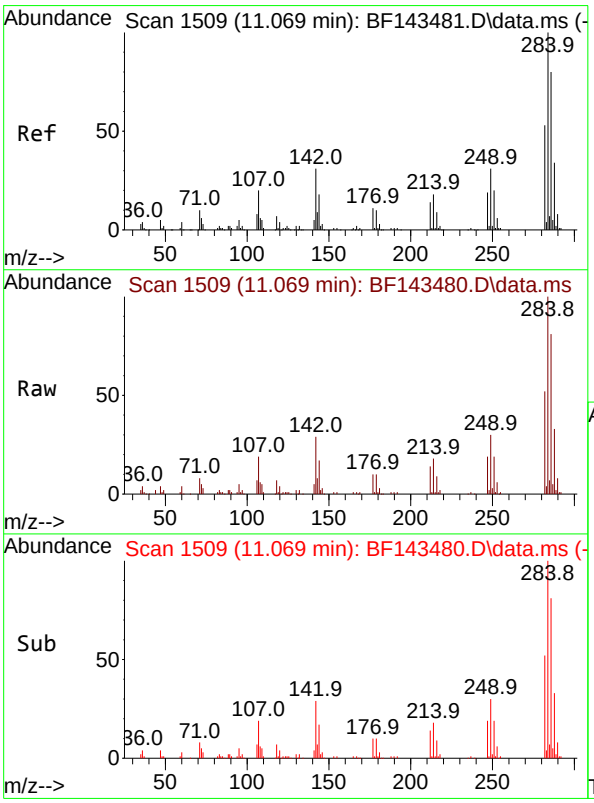
#67
4-Bromophenyl-phenylether
Concen: 20.944 ng
RT: 10.992 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:248 Resp: 106363

Ion	Ratio	Lower	Upper
248	100		
250	96.9	77.8	116.8
141	72.9	54.0	81.0

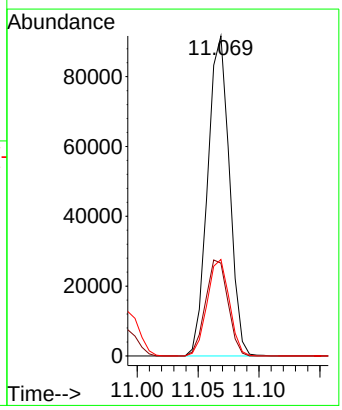


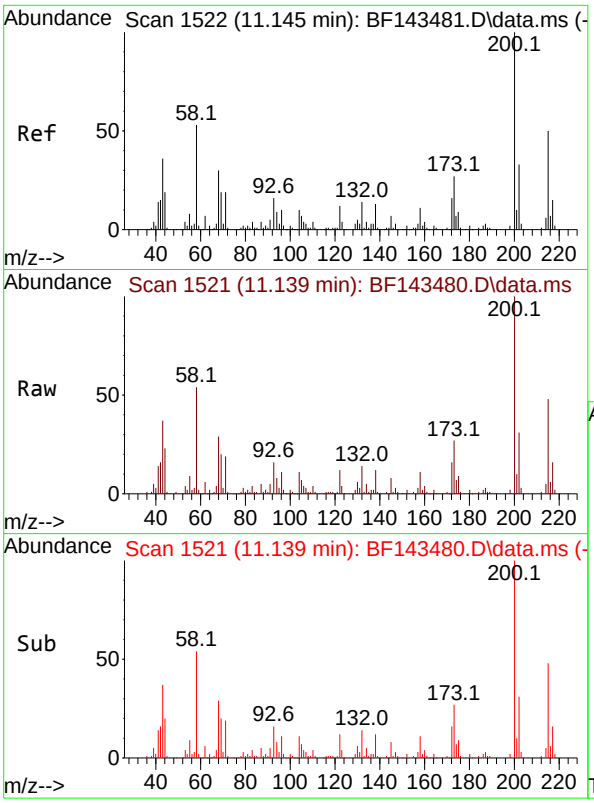


#68
Hexachlorobenzene
Concen: 20.773 ng
RT: 11.069 min Scan# 1509
Delta R.T. -0.006 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Tgt Ion:284 Resp: 113714

Ion	Ratio	Lower	Upper
284	100		
142	29.0	24.4	36.6
249	30.2	25.0	37.6



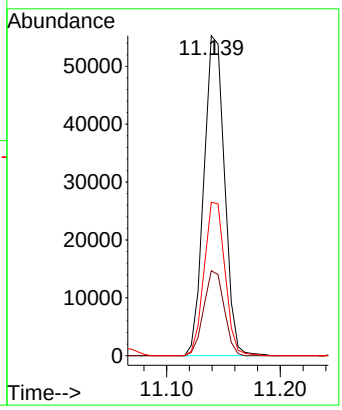


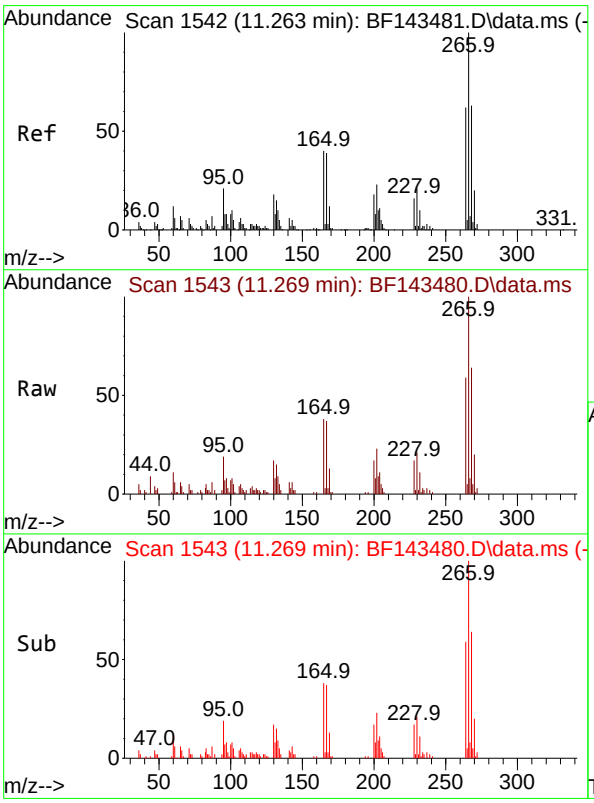
#69
Atrazine
Concen: 19.750 ng
RT: 11.139 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:200 Resp: 69831

Ion	Ratio	Lower	Upper
200	100		
173	26.6	6.9	46.9
215	48.0	30.0	70.0

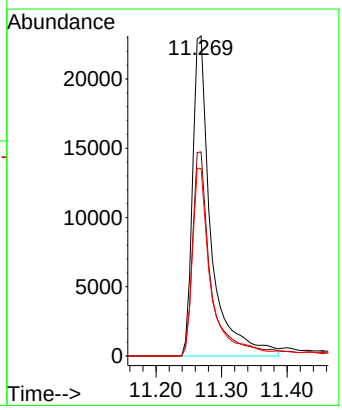


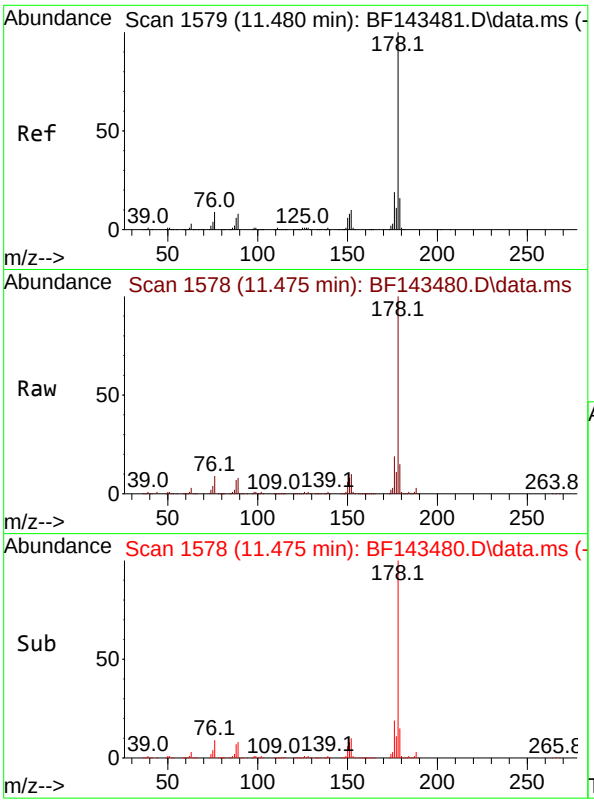


#70
Pentachlorophenol
Concen: 18.070 ng
RT: 11.269 min Scan# 1543
Delta R.T. -0.000 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Tgt Ion:266 Resp: 45302

Ion	Ratio	Lower	Upper
266	100		
268	63.7	50.5	75.7
264	58.6	49.8	74.8



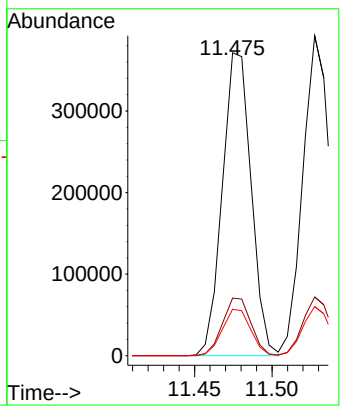


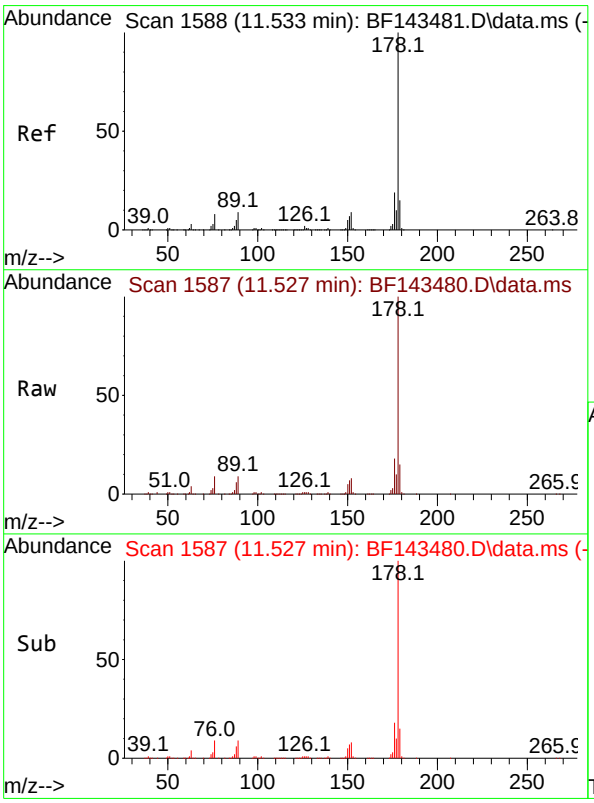
#71
Phenanthrene
Concen: 21.099 ng
RT: 11.475 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:178 Resp: 480915

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.5	23.3
179	15.3	12.5	18.7

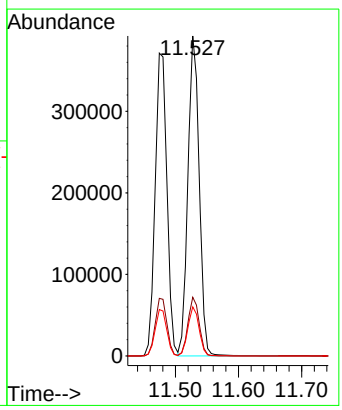


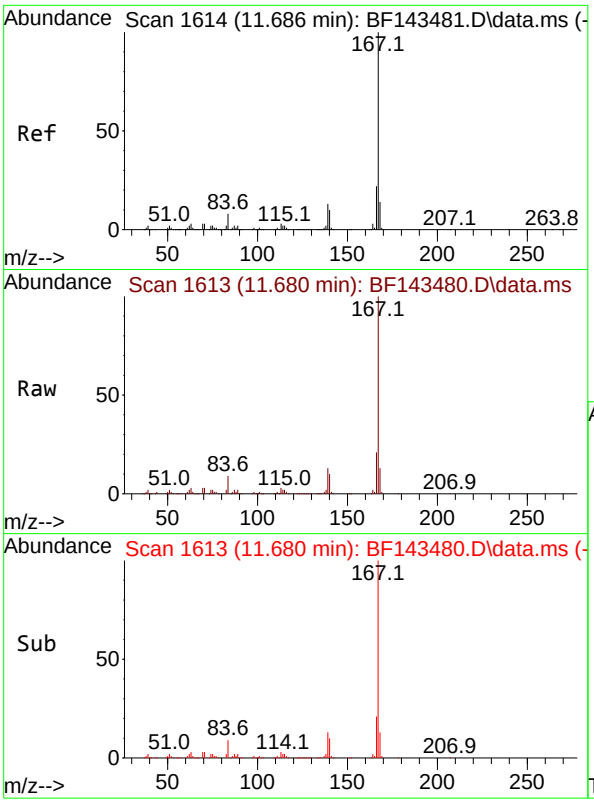


#72
Anthracene
Concen: 21.164 ng
RT: 11.527 min Scan# 1587
Delta R.T. -0.006 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Tgt Ion:178 Resp: 488675

Ion	Ratio	Lower	Upper
178	100		
176	18.3	15.0	22.4
179	15.4	12.3	18.5



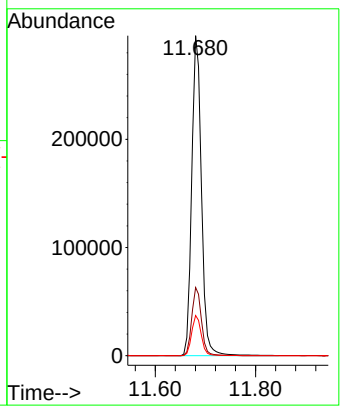


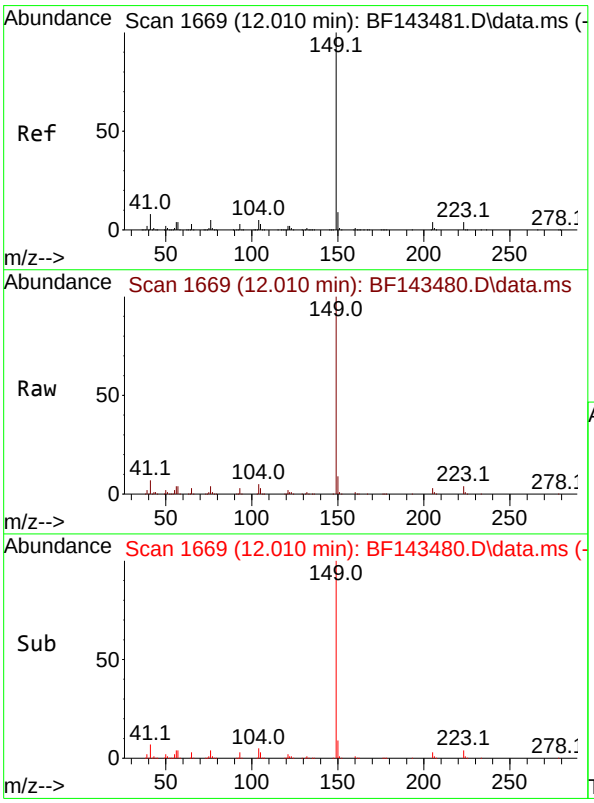
#73
Carbazole
Concen: 20.967 ng
RT: 11.680 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:167 Resp: 396704

Ion	Ratio	Lower	Upper
167	100		
166	21.3	17.3	25.9
139	12.6	10.0	15.0

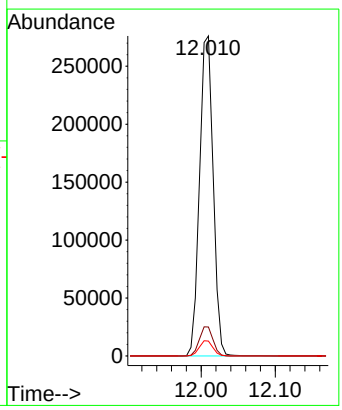


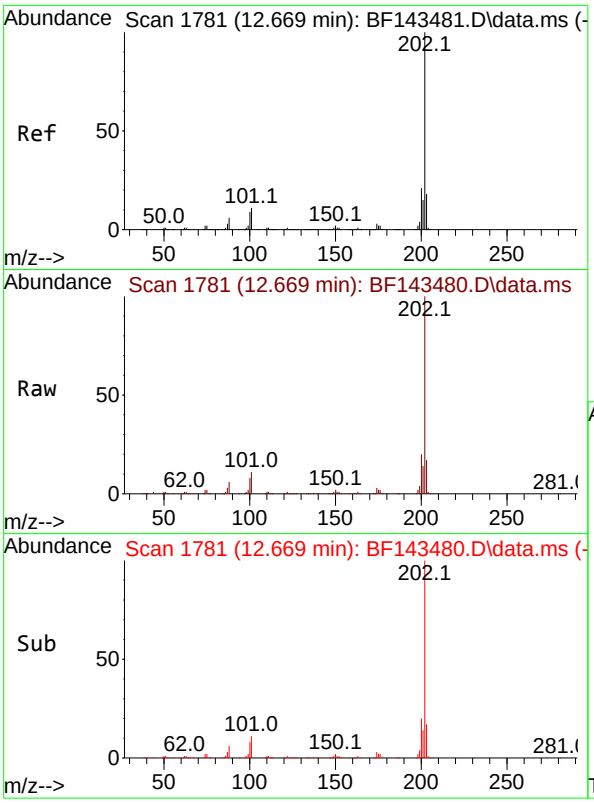


#74
Di-n-butylphthalate
Concen: 20.013 ng
RT: 12.010 min Scan# 1669
Delta R.T. -0.000 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Tgt Ion:149 Resp: 353228

Ion	Ratio	Lower	Upper
149	100		
150	9.1	7.2	10.8
104	4.6	3.6	5.4



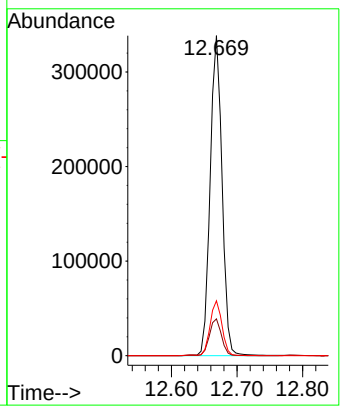


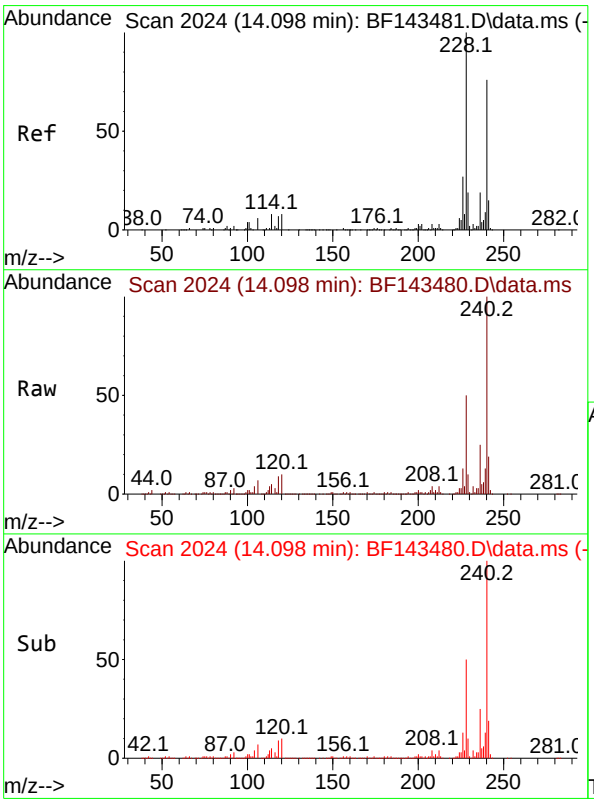
#75
Fluoranthene
Concen: 20.846 ng
RT: 12.669 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:202 Resp: 426351

Ion	Ratio	Lower	Upper
202	100		
101	11.5	0.0	31.3
203	17.1	0.0	37.9

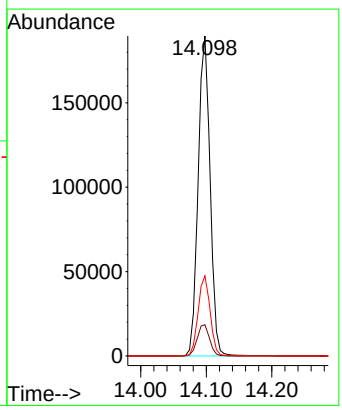


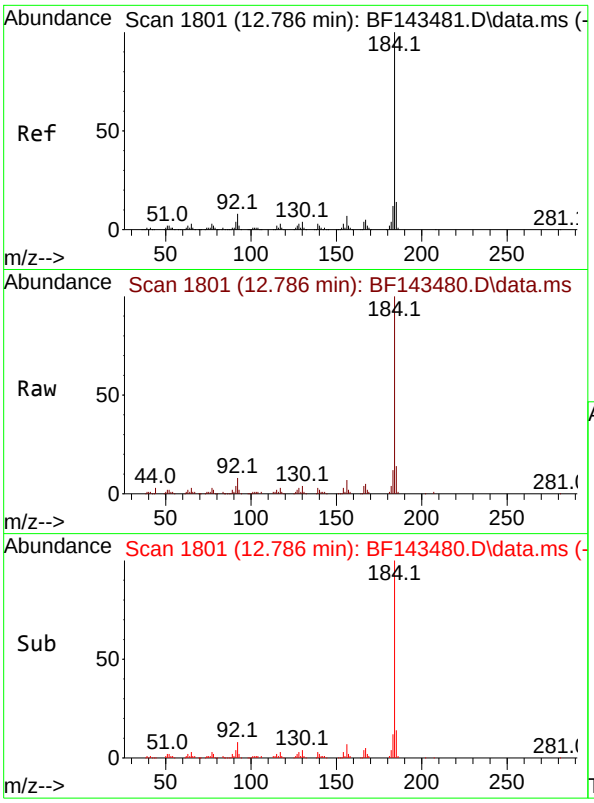


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.098 min Scan# 2024
Delta R.T. -0.006 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Tgt Ion:240 Resp: 241250

Ion	Ratio	Lower	Upper
240	100		
120	9.8	8.6	12.8
236	25.0	20.4	30.6



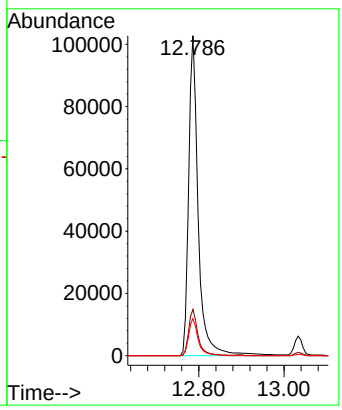


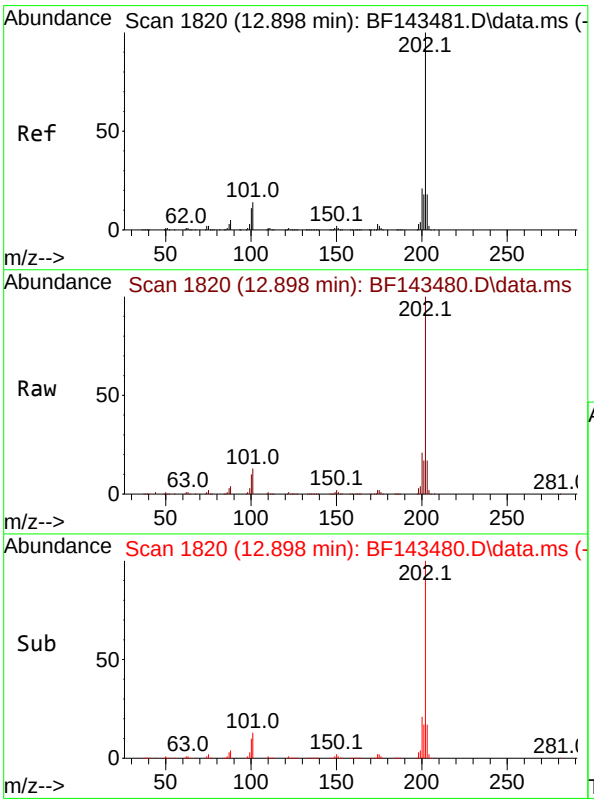
#77
Benzidine
Concen: 27.286 ng
RT: 12.786 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:184 Resp: 160347

Ion	Ratio	Lower	Upper
184	100		
185	14.5	11.3	16.9
183	11.6	9.5	14.3

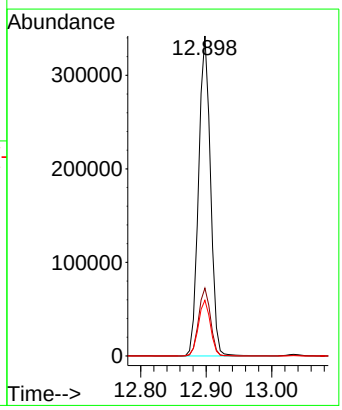


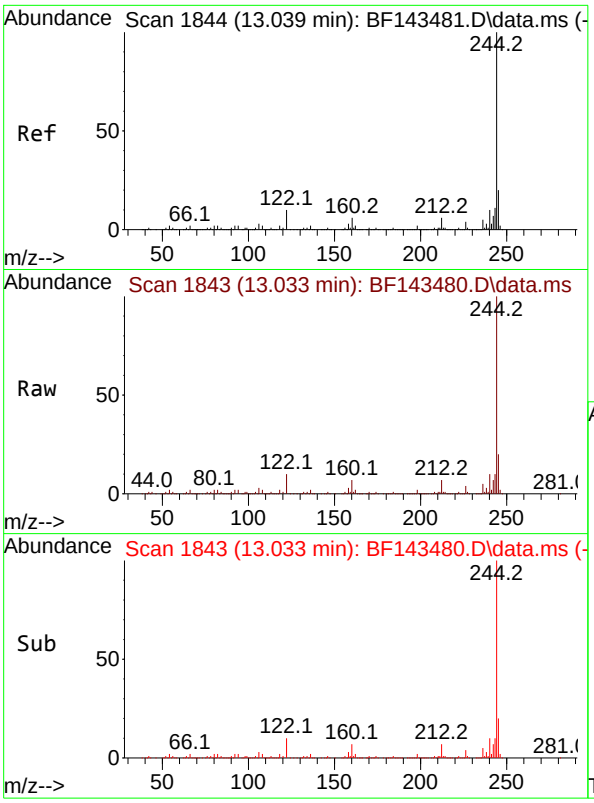


#78
Pyrene
Concen: 21.798 ng
RT: 12.898 min Scan# 1820
Delta R.T. -0.006 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Tgt Ion:202 Resp: 432575

Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.0	25.4
203	17.4	14.3	21.5



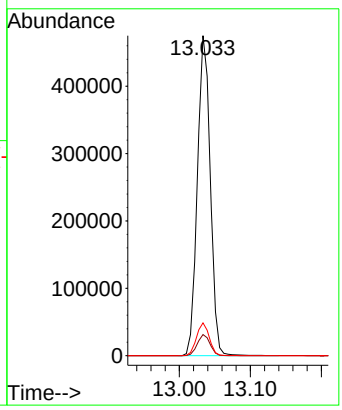


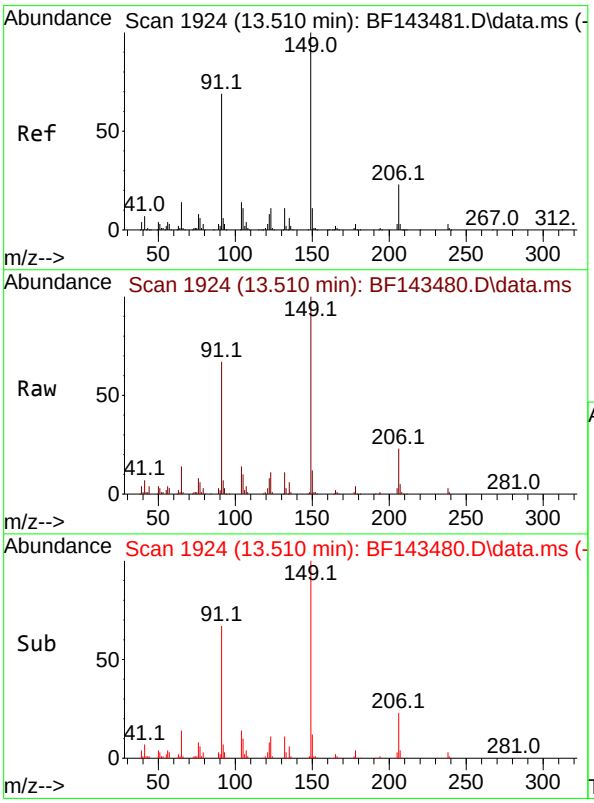
#79
Terphenyl-d14
Concen: 43.541 ng
RT: 13.033 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:244 Resp: 601957

Ion	Ratio	Lower	Upper
244	100		
212	6.6	5.2	7.8
122	10.3	7.9	11.9

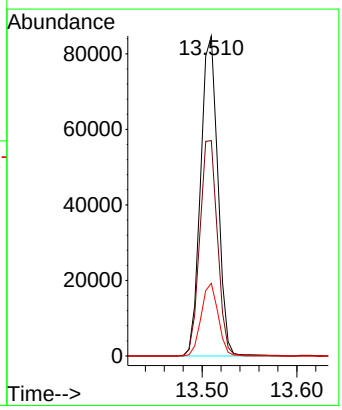


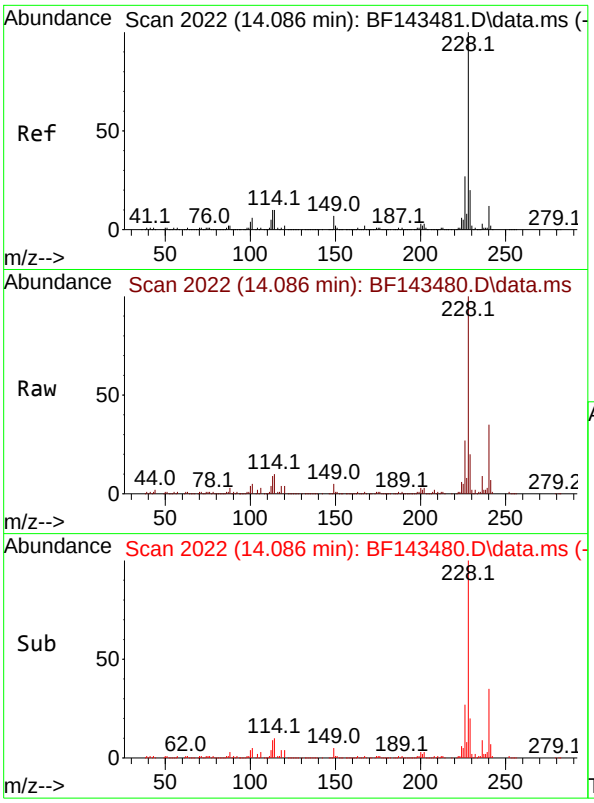


#80
Butylbenzylphthalate
Concen: 19.698 ng
RT: 13.510 min Scan# 1924
Delta R.T. -0.000 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Tgt Ion:149 Resp: 106788

Ion	Ratio	Lower	Upper
149	100		
91	67.3	55.3	82.9
206	22.7	18.2	27.4



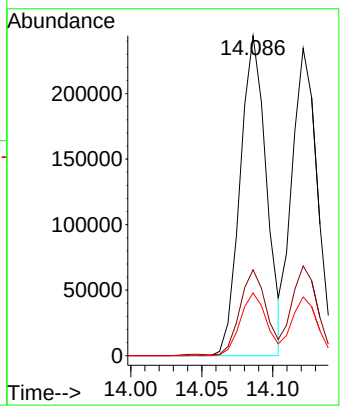


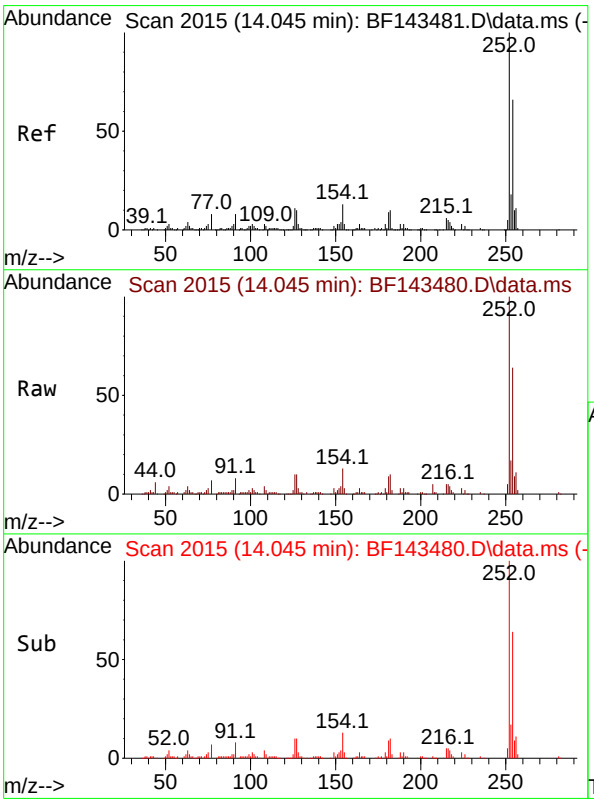
#81
Benzo(a)anthracene
Concen: 20.196 ng
RT: 14.086 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:228 Resp: 313687

Ion	Ratio	Lower	Upper
228	100		
226	26.9	21.7	32.5
229	19.6	15.7	23.5

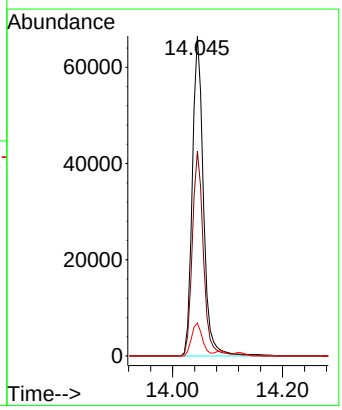


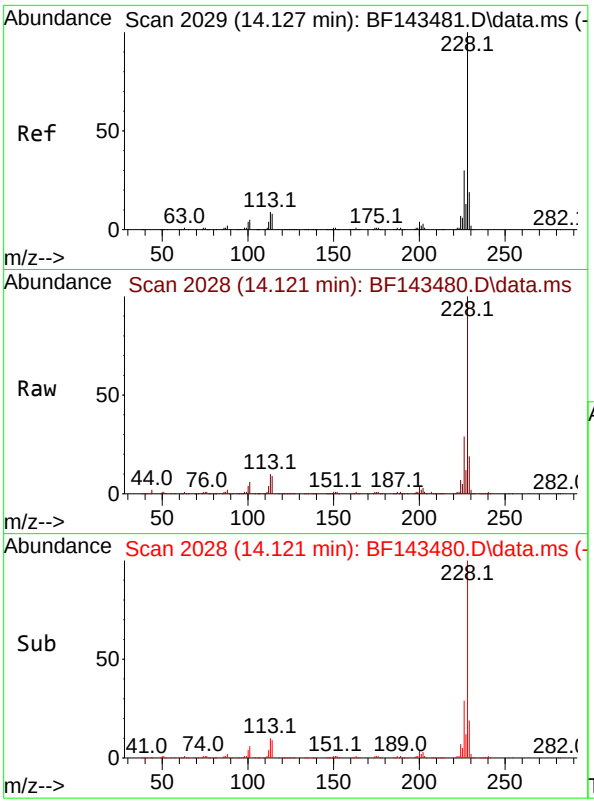


#82
3,3'-Dichlorobenzidine
Concen: 20.959 ng
RT: 14.045 min Scan# 2015
Delta R.T. -0.000 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Tgt Ion:252 Resp: 93226

Ion	Ratio	Lower	Upper
252	100		
254	64.0	52.6	79.0
126	10.3	8.7	13.1



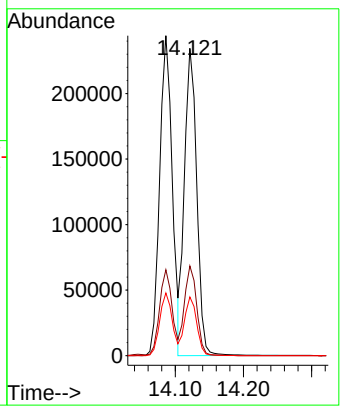


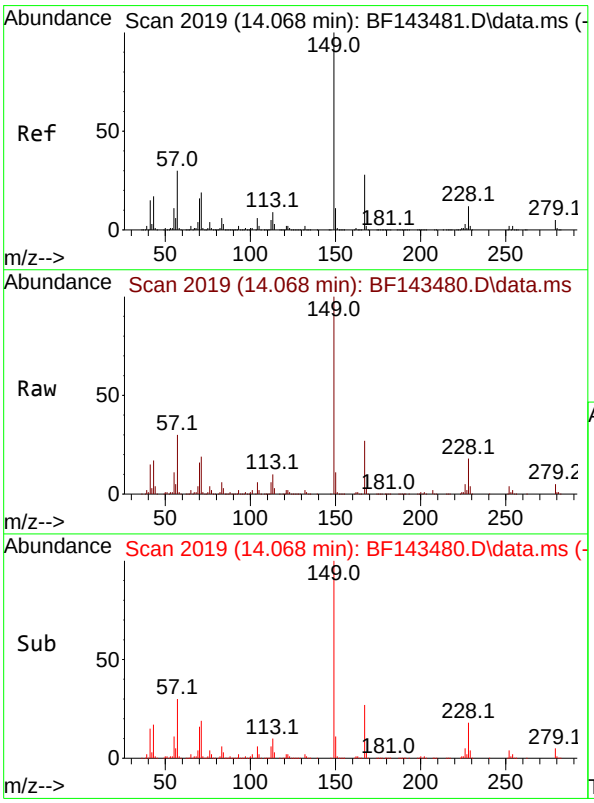
#83
Chrysene
Concen: 20.957 ng
RT: 14.121 min Scan# 2(
Delta R.T. -0.006 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:228 Resp: 292523

Ion	Ratio	Lower	Upper
228	100		
226	29.2	23.7	35.5
229	19.1	15.7	23.5

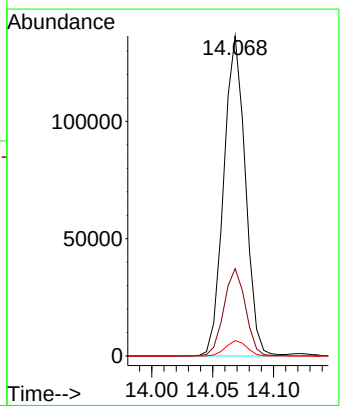


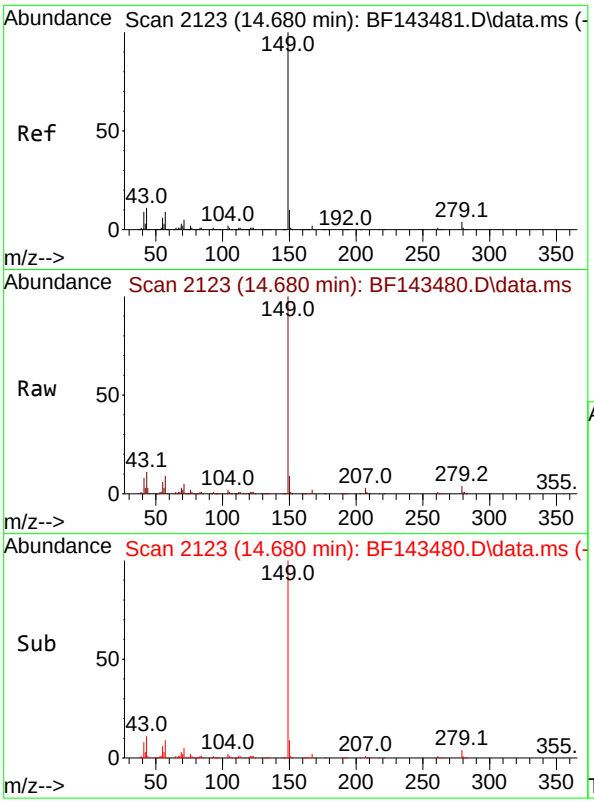


#84
Bis(2-ethylhexyl)phthalate
Concen: 20.434 ng
RT: 14.068 min Scan# 2019
Delta R.T. -0.000 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Tgt Ion:149 Resp: 168717

Ion	Ratio	Lower	Upper
149	100		
167	27.3	22.2	33.2
279	4.8	3.6	5.4



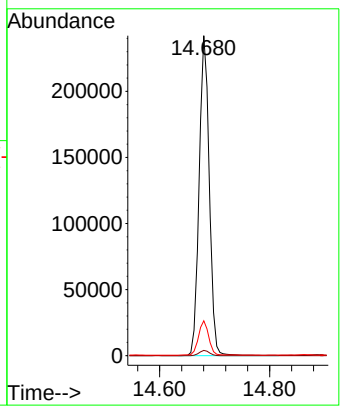


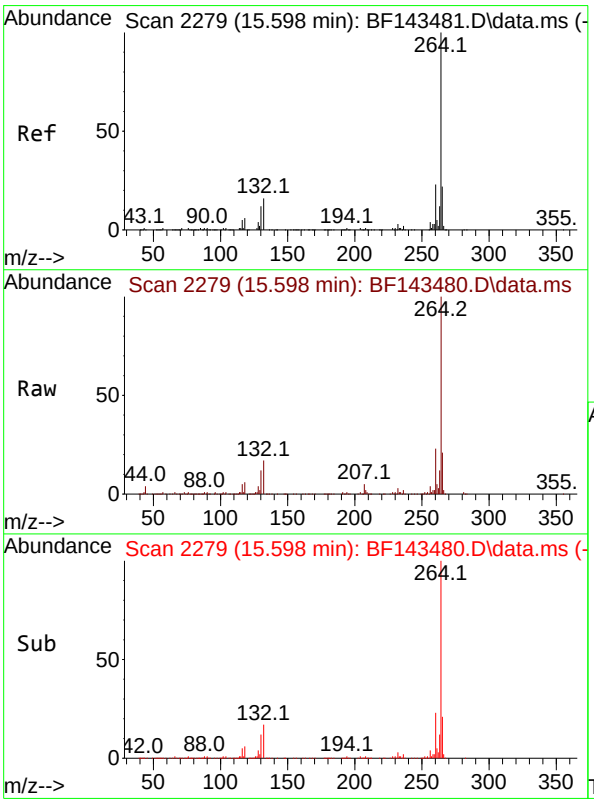
#85
Di-n-octyl phthalate
Concen: 20.329 ng
RT: 14.680 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:149 Resp: 310954

Ion	Ratio	Lower	Upper
149	100		
167	1.7	1.2	1.8
43	11.0	8.5	12.7

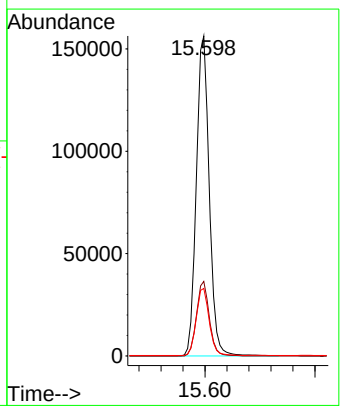


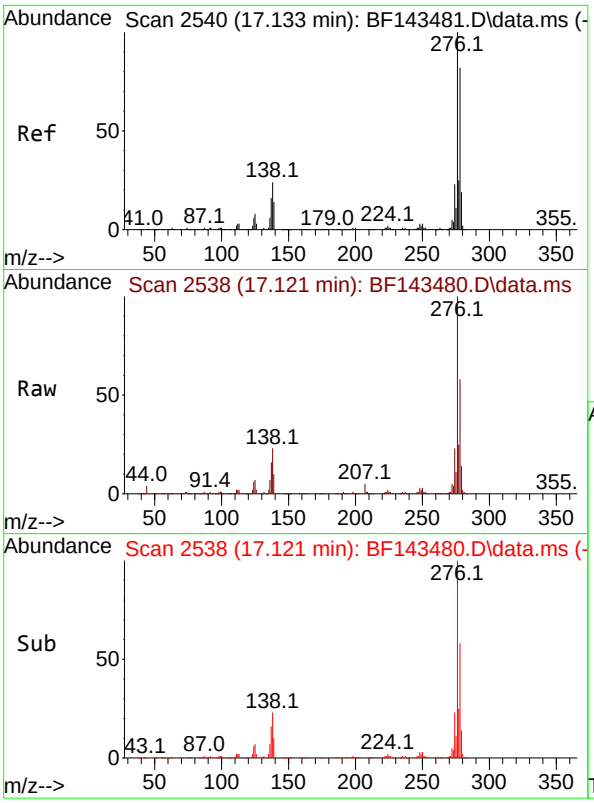


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.598 min Scan# 2279
Delta R.T. -0.000 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Tgt Ion:264 Resp: 255472

Ion	Ratio	Lower	Upper
264	100		
260	23.3	18.7	28.1
265	21.1	17.6	26.4



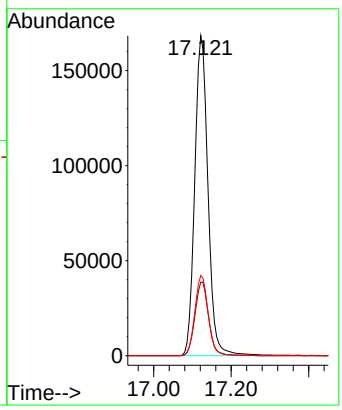


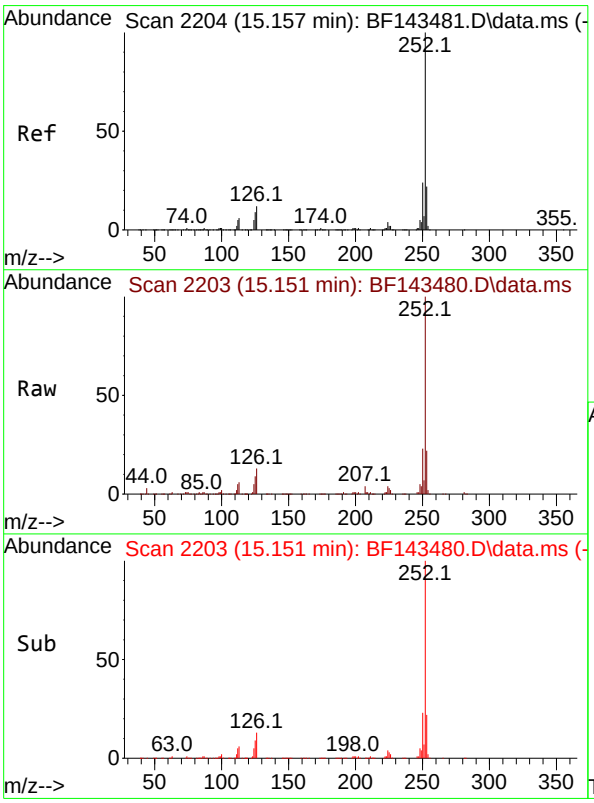
#87
Indeno(1,2,3-cd)pyrene
Concen: 21.773 ng
RT: 17.121 min Scan# 2
Delta R.T. -0.018 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:276 Resp: 399711

Ion	Ratio	Lower	Upper
276	100		
138	23.8	19.2	28.8
277	25.2	20.3	30.5

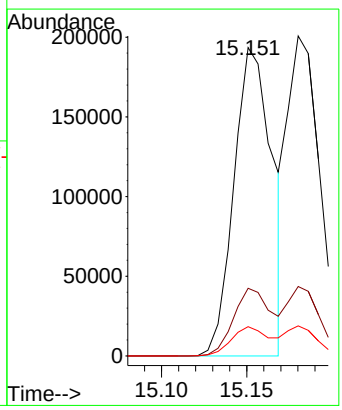


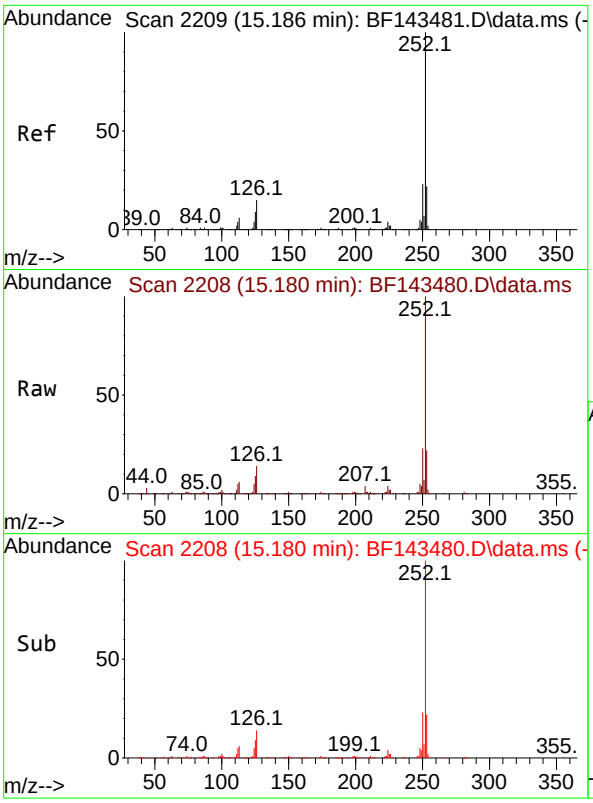


#88
Benzo(b)fluoranthene
Concen: 21.268 ng
RT: 15.151 min Scan# 2203
Delta R.T. -0.006 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Tgt Ion:252 Resp: 302016

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.5	26.3
125	9.5	7.4	11.0



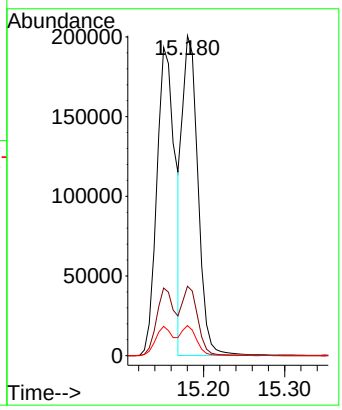


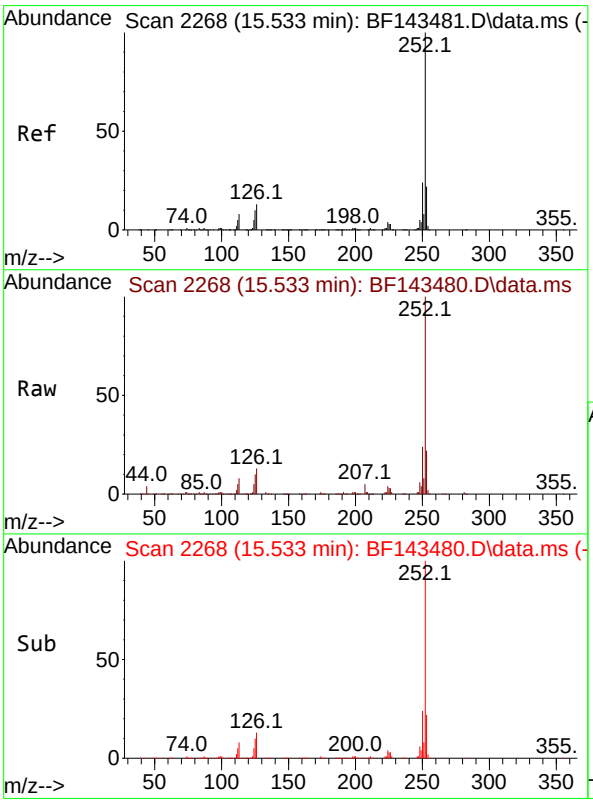
#89
Benzo(k)fluoranthene
Concen: 19.835 ng
RT: 15.180 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:252 Resp: 269685

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.4	26.2
125	9.4	7.4	11.0

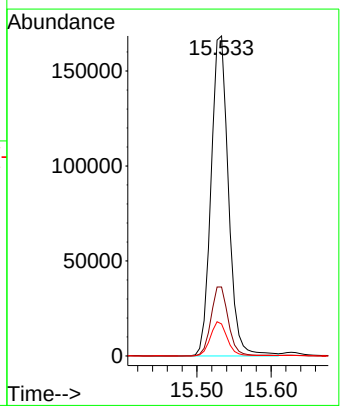


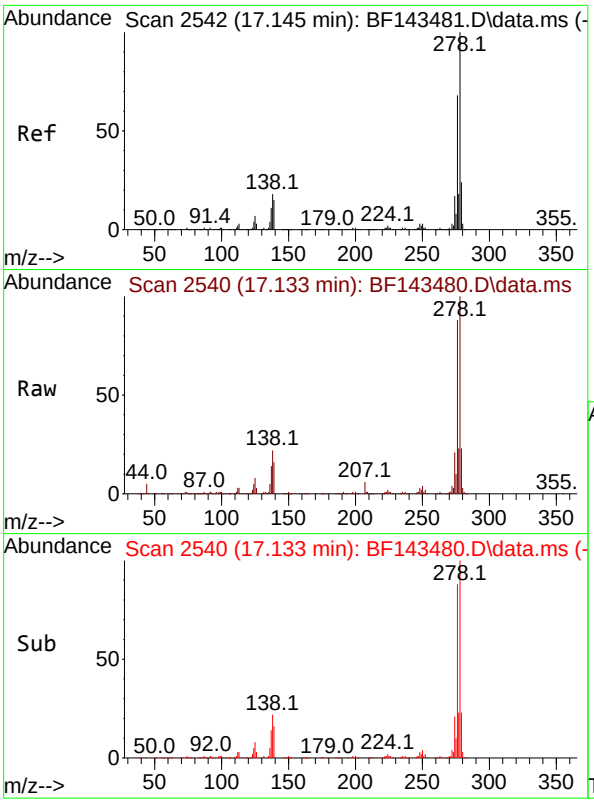


#90
Benzo(a)pyrene
Concen: 20.819 ng
RT: 15.533 min Scan# 2268
Delta R.T. -0.006 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Tgt Ion:252 Resp: 274418

Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.4	26.0
125	10.0	8.2	12.2



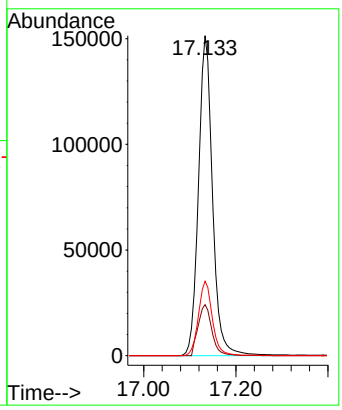


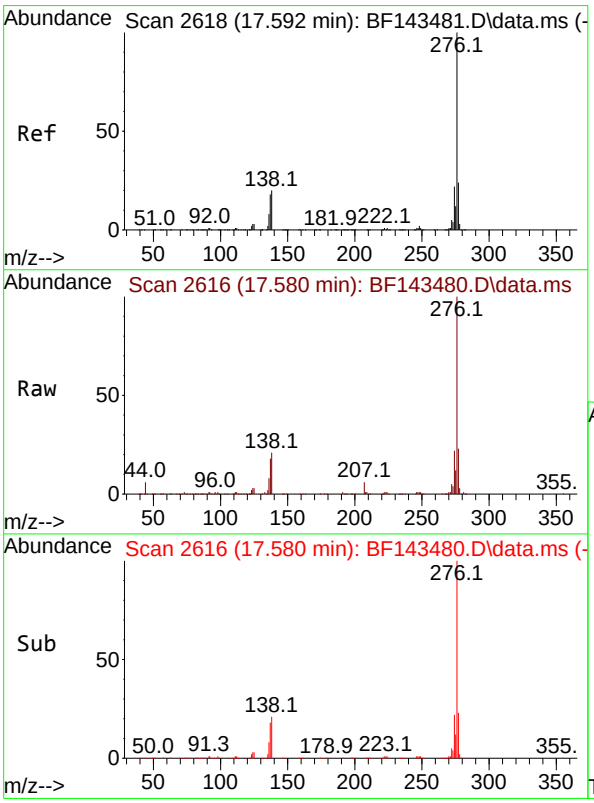
#91
Dibenzo(a,h)anthracene
Concen: 21.891 ng
RT: 17.133 min Scan# 2
Delta R.T. -0.024 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:278 Resp: 321851

Ion	Ratio	Lower	Upper
278	100		
139	16.0	12.1	18.1
279	23.3	19.2	28.8

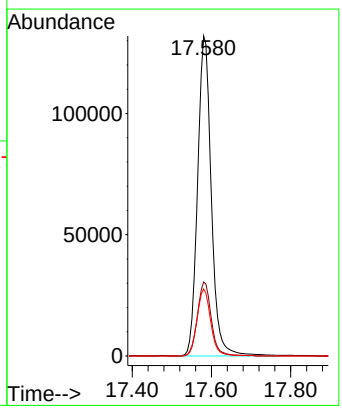




#92
Benzo(g,h,i)perylene
Concen: 21.701 ng
RT: 17.580 min Scan# 2616
Delta R.T. -0.024 min
Lab File: BF143480.D
Acq: 20 Aug 2025 12:23

Tgt Ion:276 Resp: 317263

Ion	Ratio	Lower	Upper
276	100		
277	23.1	18.9	28.3
138	21.0	16.3	24.5



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082025\
Data File : BF143481.D
Acq On : 20 Aug 2025 12:53
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Quant Time: Aug 20 16:23:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 20 15:07:46 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.928	152	137770	20.000	ng	0.00
21) Naphthalene-d8	8.210	136	521928	20.000	ng	0.00
39) Acenaphthene-d10	9.969	164	282852	20.000	ng	0.00
64) Phenanthrene-d10	11.457	188	436106	20.000	ng	0.00
76) Chrysene-d12	14.098	240	249960	20.000	ng	0.00
86) Perylene-d12	15.598	264	288139	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.563	112	627397	79.519	ng	0.00
7) Phenol-d6	6.563	99	775270	79.600	ng	-0.01
23) Nitrobenzene-d5	7.492	82	717900	80.266	ng	0.00
42) 2,4,6-Tribromophenol	10.757	330	212595	80.744	ng	0.00
45) 2-Fluorobiphenyl	9.286	172	1307900	76.419	ng	0.00
79) Terphenyl-d14	13.039	244	1129659	78.865	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.740	88	147614	40.387	ng	100
3) Pyridine	3.522	79	396205	40.700	ng	100
4) n-Nitrosodimethylamine	3.463	42	176726	40.383	ng	100
6) Aniline	6.592	93	520870	40.010	ng	100
8) 2-Chlorophenol	6.716	128	349331	40.086	ng	100
9) Benzaldehyde	6.481	77	330624	41.929	ng	100
10) Phenol	6.581	94	453508	40.419	ng	100
11) bis(2-Chloroethyl)ether	6.657	93	334229	39.862	ng	100
12) 1,3-Dichlorobenzene	6.869	146	389485	39.778	ng	100
13) 1,4-Dichlorobenzene	6.945	146	388762	39.581	ng	100
14) 1,2-Dichlorobenzene	7.098	146	371439	39.943	ng	100
15) Benzyl Alcohol	7.069	79	298360	40.916	ng	100
16) 2,2'-oxybis(1-Chloropr...	7.198	45	538319	40.131	ng	100
17) 2-Methylphenol	7.187	107	278676	39.844	ng	100
18) Hexachloroethane	7.439	117	135258	40.503	ng	100
19) n-Nitroso-di-n-propyla...	7.339	70	232621	39.076	ng	100
20) 3+4-Methylphenols	7.334	107	335474	40.179	ng	100
22) Acetophenone	7.334	105	436693	38.728	ng	100
24) Nitrobenzene	7.510	77	371931	40.403	ng	100
25) Isophorone	7.745	82	648362	39.546	ng	100
26) 2-Nitrophenol	7.828	139	185255	41.084	ng	100
27) 2,4-Dimethylphenol	7.863	122	281983	40.116	ng	100
28) bis(2-Chloroethoxy)met...	7.951	93	402757	39.973	ng	100
29) 2,4-Dichlorophenol	8.075	162	301002	40.095	ng	100
30) 1,2,4-Trichlorobenzene	8.151	180	305107	39.529	ng	100
31) Naphthalene	8.234	128	984671	39.296	ng	100
32) Benzoic acid	7.981	122	151495	39.150	ng	100
33) 4-Chloroaniline	8.281	127	357854	40.237	ng	100
34) Hexachlorobutadiene	8.351	225	200199	39.756	ng	100
35) Caprolactam	8.651	113	73867	41.004	ng	100
36) 4-Chloro-3-methylphenol	8.763	107	300101	39.889	ng	100
37) 2-Methylnaphthalene	8.922	142	660885	39.489	ng	100
38) 1-Methylnaphthalene	9.022	142	629141	39.300	ng	100
40) 1,2,4,5-Tetrachloroben...	9.092	216	319789	39.526	ng	100
41) Hexachlorocyclopentadiene	9.081	237	112053	39.218	ng	100
43) 2,4,6-Trichlorophenol	9.204	196	206042	41.387	ng	100

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082025\
Data File : BF143481.D
Acq On : 20 Aug 2025 12:53
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Quant Time: Aug 20 16:23:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 20 15:07:46 2025
Response via : Initial Calibration

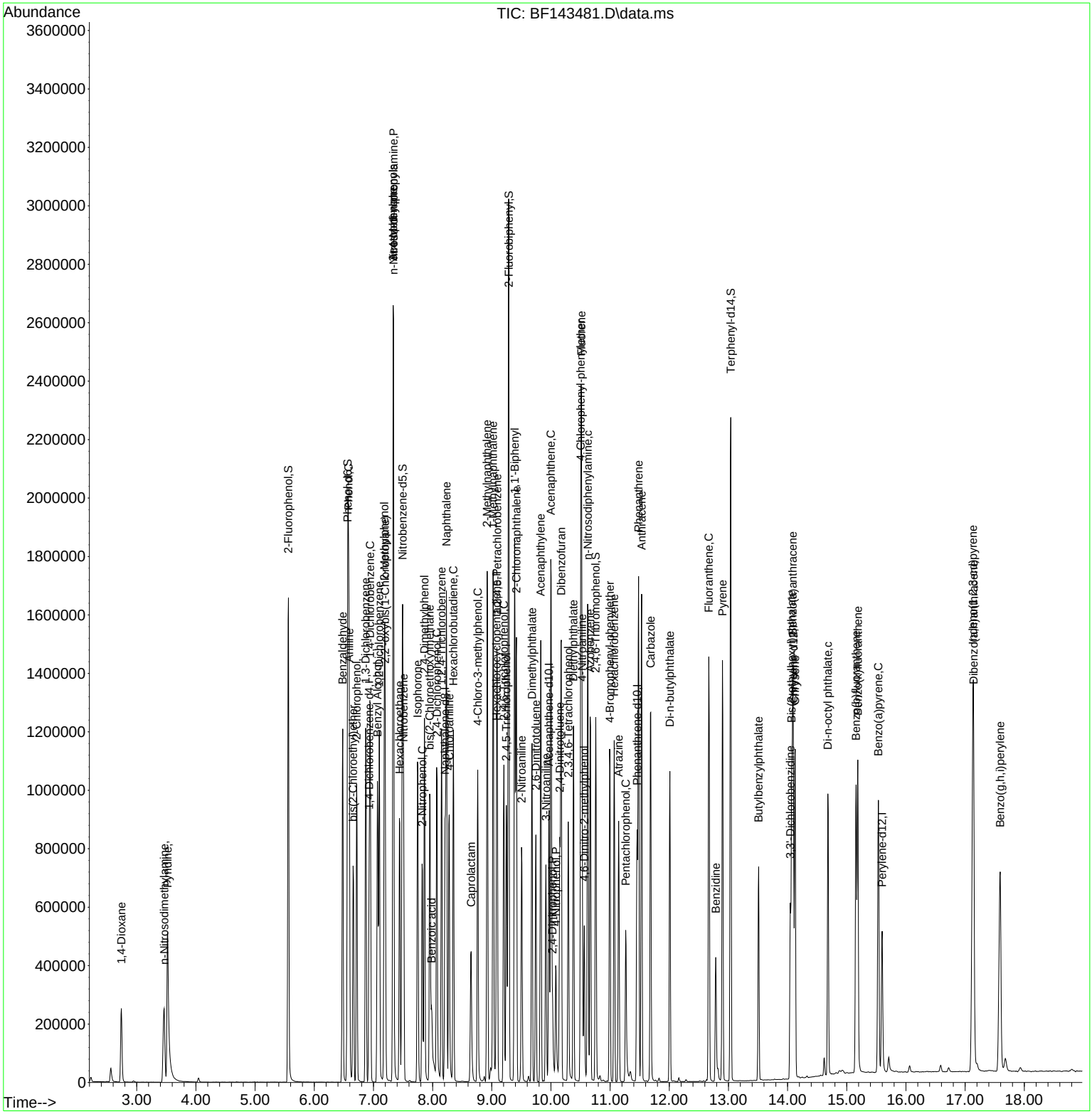
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.245	196	216152	39.748	ng	100
46) 1,1'-Biphenyl	9.386	154	791238	39.412	ng	100
47) 2-Chloronaphthalene	9.416	162	625355	39.699	ng	100
48) 2-Nitroaniline	9.504	65	190564	41.336	ng	100
49) Acenaphthylene	9.828	152	893624	39.620	ng	100
50) Dimethylphthalate	9.681	163	679389	39.881	ng	100
51) 2,6-Dinitrotoluene	9.745	165	146703	41.551	ng	100
52) Acenaphthene	9.998	154	608648	39.745	ng	100
53) 3-Nitroaniline	9.916	138	157042	41.163	ng	100
54) 2,4-Dinitrophenol	10.028	184	67793	38.822	ng	100
55) Dibenzofuran	10.175	168	861659	39.465	ng	100
56) 4-Nitrophenol	10.086	139	96926	42.699	ng	100
57) 2,4-Dinitrotoluene	10.151	165	198600	42.127	ng	100
58) Fluorene	10.516	166	654929	38.975	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.292	232	167834	41.542	ng	100
60) Diethylphthalate	10.380	149	613485	40.167	ng	100
61) 4-Chlorophenyl-phenyle...	10.504	204	330692	39.350	ng	100
62) 4-Nitroaniline	10.528	138	145120	41.412	ng	100
63) Azobenzene	10.663	77	634664	40.076	ng	100
65) 4,6-Dinitro-2-methylph...	10.563	198	103558	42.115	ng	100
66) n-Nitrosodiphenylamine	10.622	169	558998	39.830	ng	100
67) 4-Bromophenyl-phenylether	10.998	248	210081	40.374	ng	100
68) Hexachlorobenzene	11.069	284	224294	39.989	ng	100
69) Atrazine	11.145	200	146499	40.437	ng	100
70) Pentachlorophenol	11.263	266	108200	42.121	ng	100
71) Phenanthrene	11.480	178	906136	38.800	ng	100
72) Anthracene	11.533	178	936575	39.587	ng	100
73) Carbazole	11.686	167	769702	39.704	ng	100
74) Di-n-butylphthalate	12.010	149	741021	40.975	ng	100
75) Fluoranthene	12.669	202	825200	39.378	ng	100
77) Benzidine	12.786	184	258175	42.403	ng	100
78) Pyrene	12.898	202	817477	39.759	ng	100
80) Butylbenzylphthalate	13.510	149	233397	41.552	ng	100
81) Benzo(a)anthracene	14.086	228	658804	40.938	ng	100
82) 3,3'-Dichlorobenzidine	14.045	252	186301	40.425	ng	100
83) Chrysene	14.127	228	556527	38.482	ng	100
84) Bis(2-ethylhexyl)phtha...	14.068	149	354779	41.471	ng	100
85) Di-n-octyl phthalate	14.680	149	649137	40.959	ng	100
87) Indeno(1,2,3-cd)pyrene	17.133	276	835150	40.334	ng	100
88) Benzo(b)fluoranthene	15.157	252	618677	38.627	ng	100
89) Benzo(k)fluoranthene	15.186	252	623043	40.628	ng	100
90) Benzo(a)pyrene	15.533	252	594623	39.996	ng	100
91) Dibenzo(a,h)anthracene	17.145	278	669452	40.370	ng	100
92) Benzo(g,h,i)perylene	17.592	276	666442	40.417	ng	100

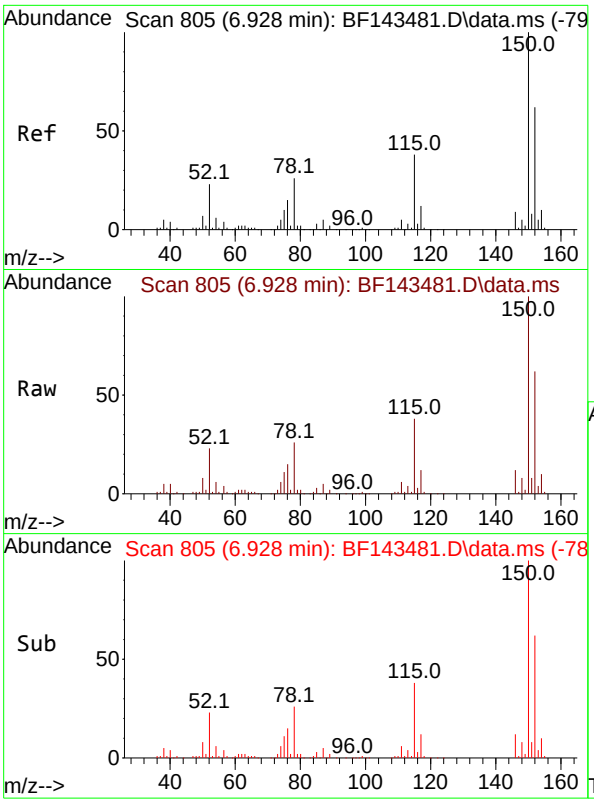
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082025\
Data File : BF143481.D
Acq On : 20 Aug 2025 12:53
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Quant Time: Aug 20 16:23:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 20 15:07:46 2025
Response via : Initial Calibration



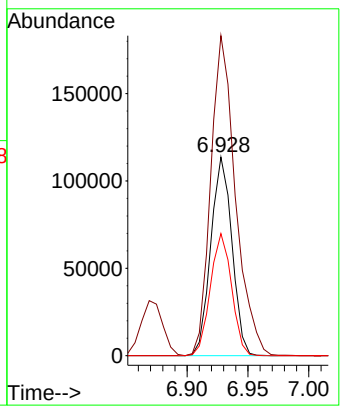


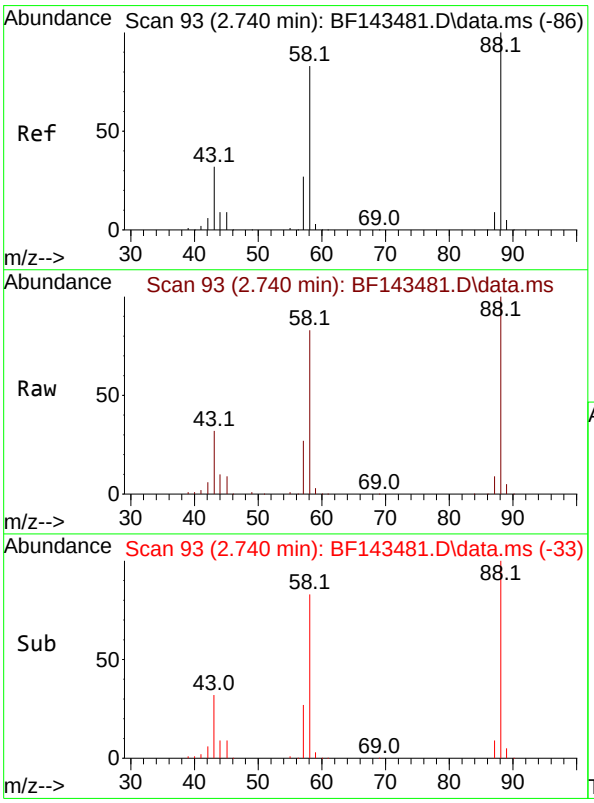
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.928 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:152 Resp: 137770

Ion	Ratio	Lower	Upper
152	100		
150	161.1	128.9	193.3
115	61.5	49.2	73.8

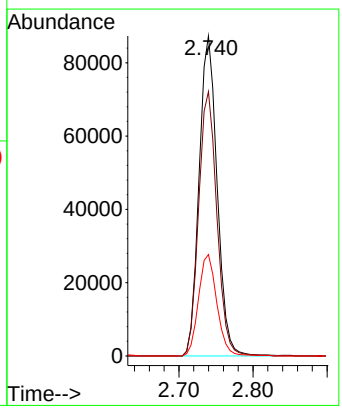


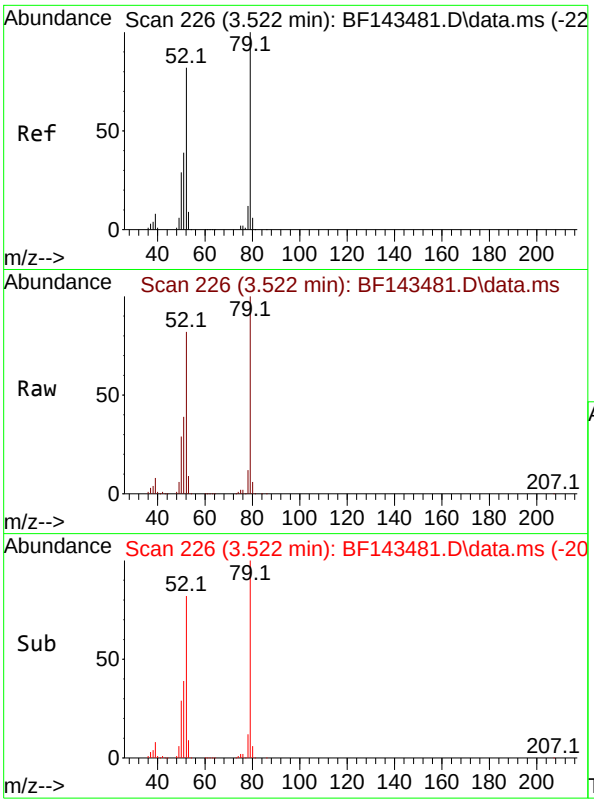


#2
1,4-Dioxane
Concen: 40.387 ng
RT: 2.740 min Scan# 93
Delta R.T. 0.006 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Tgt Ion: 88 Resp: 147614

Ion	Ratio	Lower	Upper
88	100		
58	83.4	66.7	100.1
43	32.3	25.8	38.8



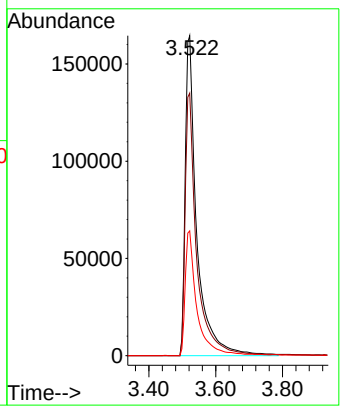


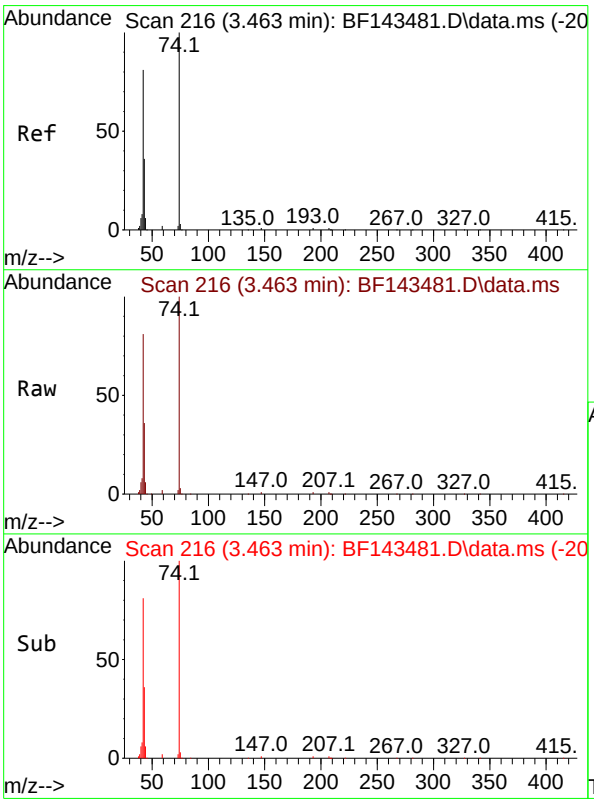
#3
Pyridine
Concen: 40.700 ng
RT: 3.522 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 79 Resp: 396205

Ion	Ratio	Lower	Upper
79	100		
52	82.0	65.6	98.4
51	39.0	31.2	46.8

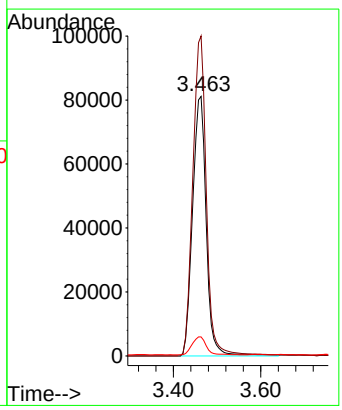


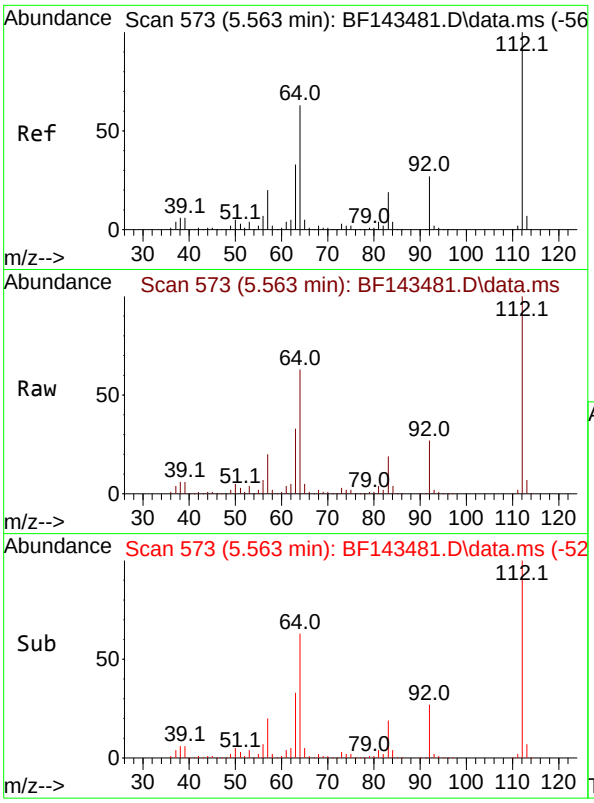


#4
n-Nitrosodimethylamine
Concen: 40.383 ng
RT: 3.463 min Scan# 216
Delta R.T. -0.012 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Tgt Ion: 42 Resp: 176726

Ion	Ratio	Lower	Upper
42	100		
74	123.3	98.6	148.0
44	7.3	5.8	8.8



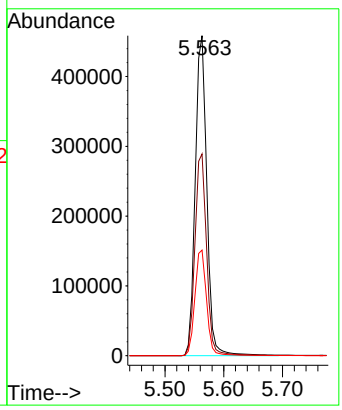


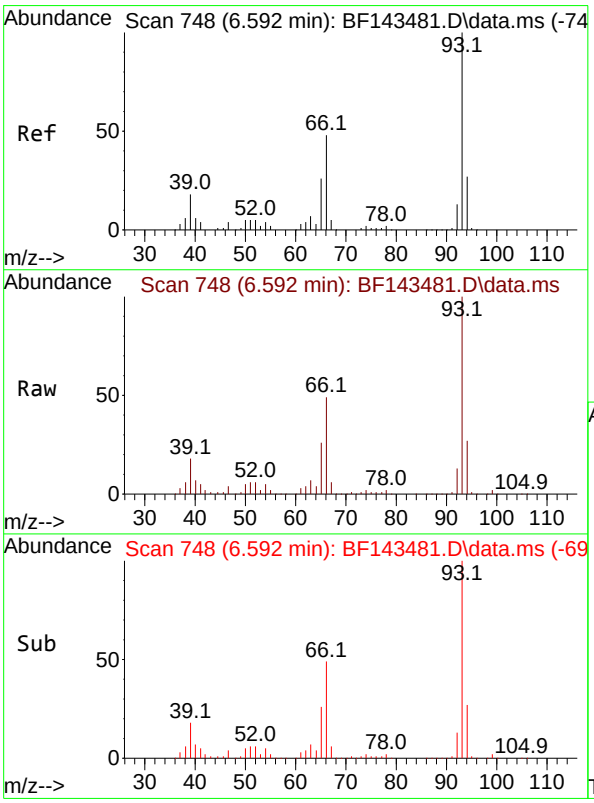
#5
2-Fluorophenol
Concen: 79.519 ng
RT: 5.563 min Scan# 5
Delta R.T. -0.000 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:112 Resp: 627397

Ion	Ratio	Lower	Upper
112	100		
64	63.0	50.4	75.6
63	33.0	26.4	39.6

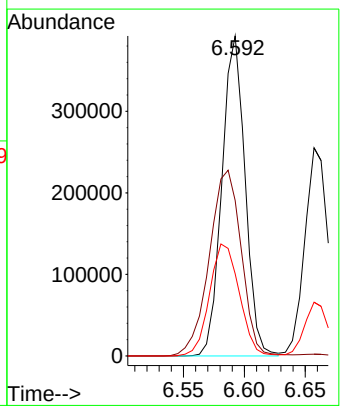


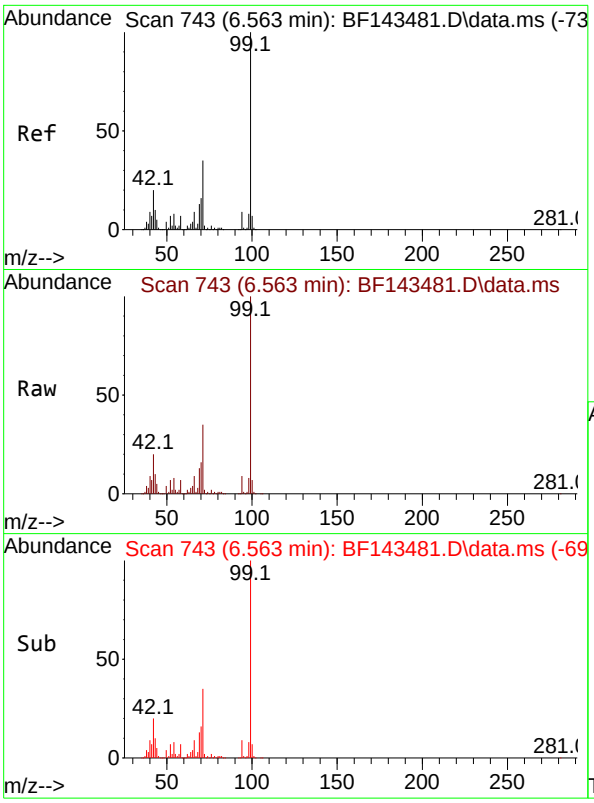


#6
Aniline
Concen: 40.010 ng
RT: 6.592 min Scan# 748
Delta R.T. -0.000 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Tgt Ion: 93 Resp: 520870

Ion	Ratio	Lower	Upper
93	100		
66	48.6	38.9	58.3
65	25.7	20.6	30.8



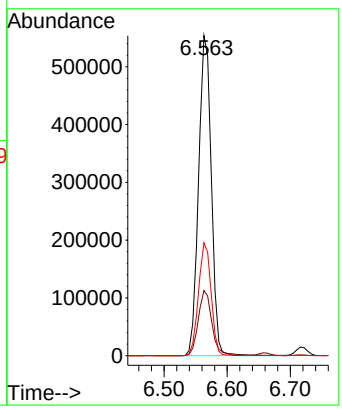


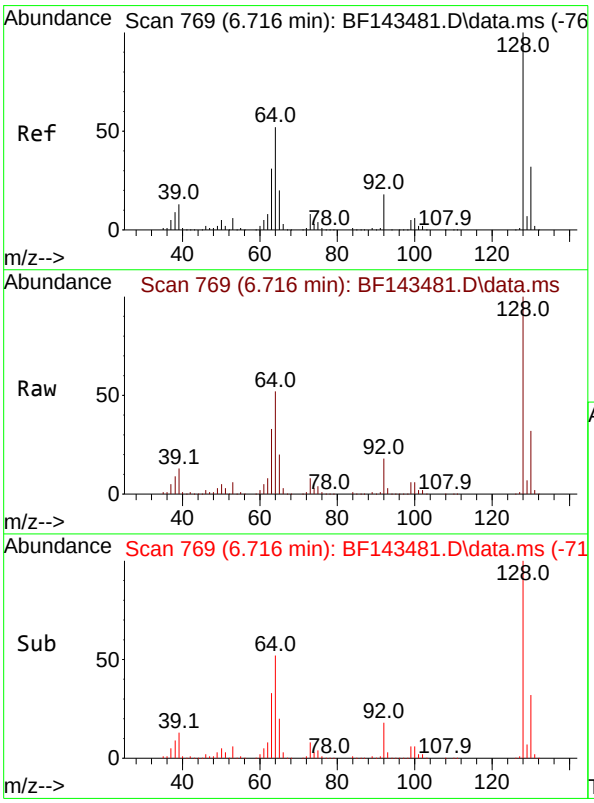
#7
Phenol-d6
Concen: 79.600 ng
RT: 6.563 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 99 Resp: 775270

Ion	Ratio	Lower	Upper
99	100		
42	20.4	16.3	24.5
71	35.2	28.2	42.2

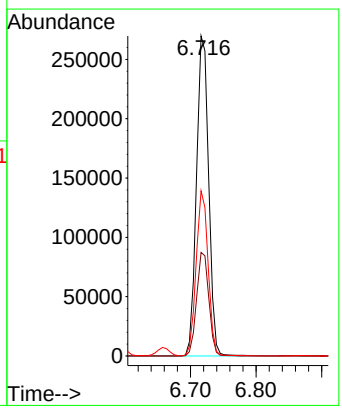


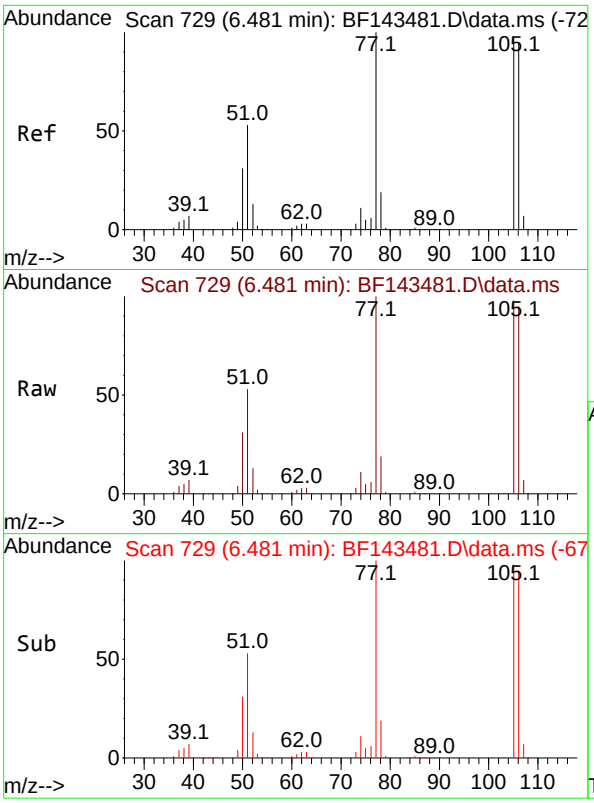


#8
2-Chlorophenol
Concen: 40.086 ng
RT: 6.716 min Scan# 769
Delta R.T. -0.006 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Tgt Ion:128 Resp: 349331

Ion	Ratio	Lower	Upper
128	100		
130	32.4	12.4	52.4
64	51.6	31.6	71.6



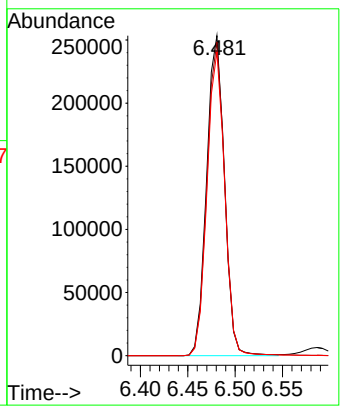


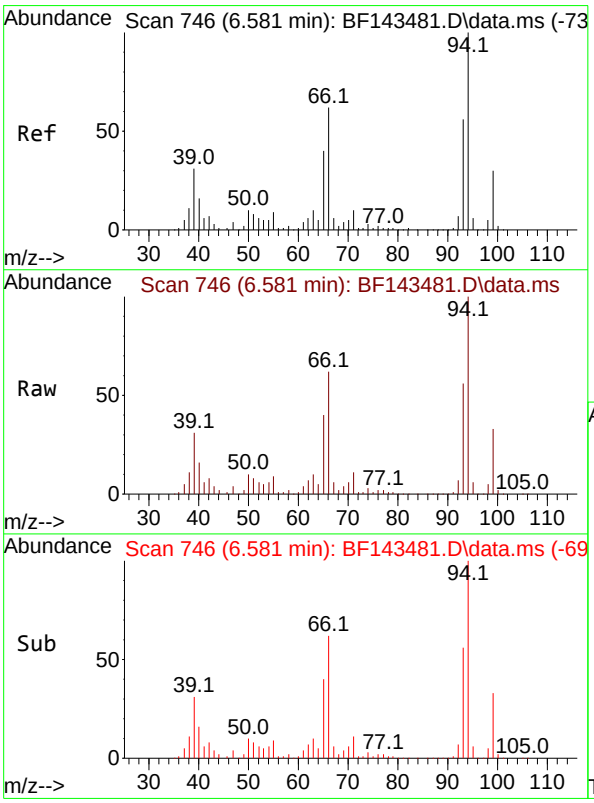
#9
Benzaldehyde
Concen: 41.929 ng
RT: 6.481 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 77 Resp: 330624

Ion	Ratio	Lower	Upper
77	100		
105	98.1	78.1	118.1
106	94.9	74.9	114.9

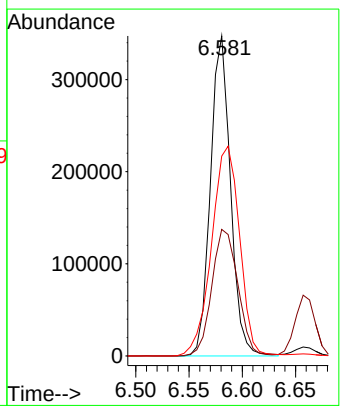


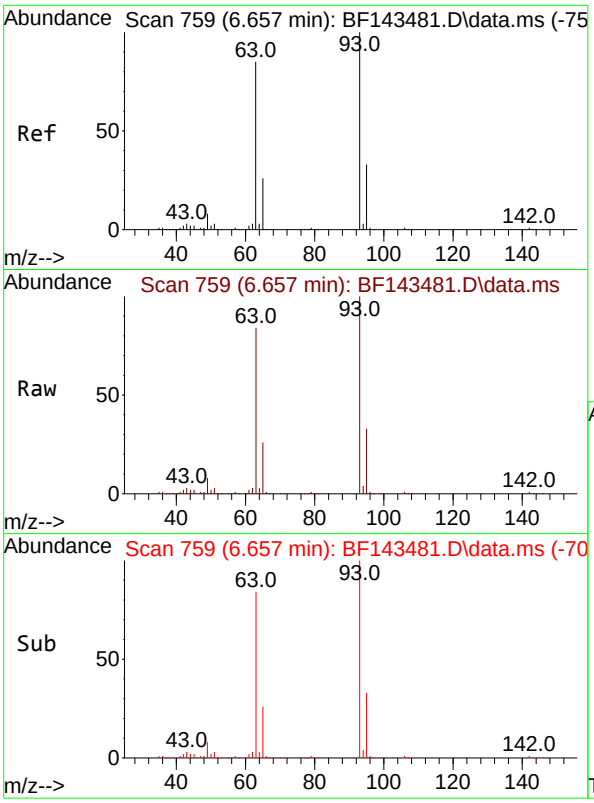


#10
Phenol
Concen: 40.419 ng
RT: 6.581 min Scan# 746
Delta R.T. -0.006 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Tgt Ion: 94 Resp: 453508

Ion	Ratio	Lower	Upper
94	100		
65	39.5	19.5	59.5
66	62.5	42.5	82.5



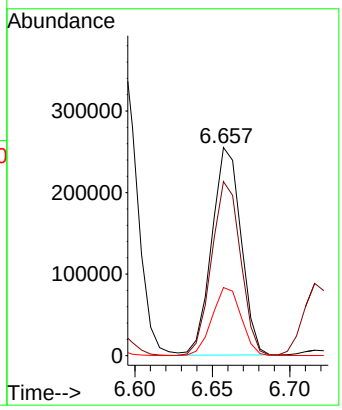


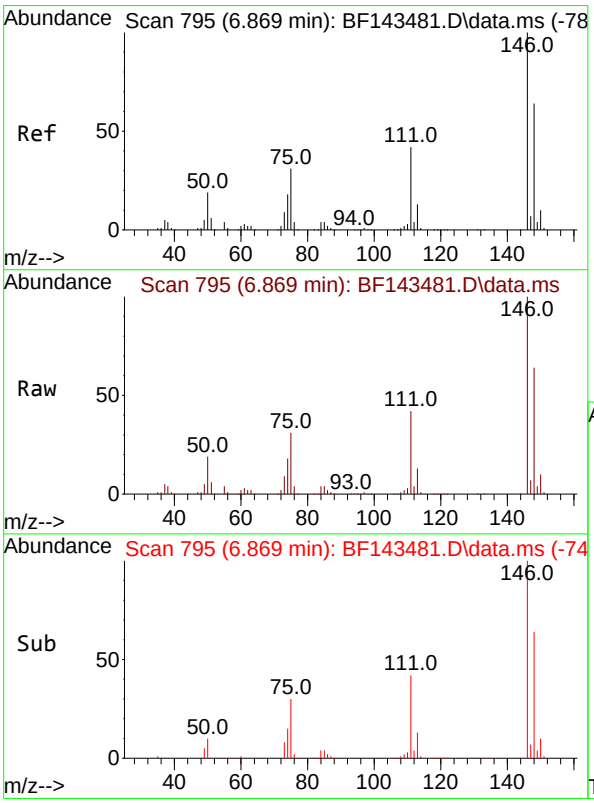
#11
bis(2-Chloroethyl)ether
Concen: 39.862 ng
RT: 6.657 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 93 Resp: 334229

Ion	Ratio	Lower	Upper
93	100		
63	83.6	63.6	103.6
95	32.8	12.8	52.8

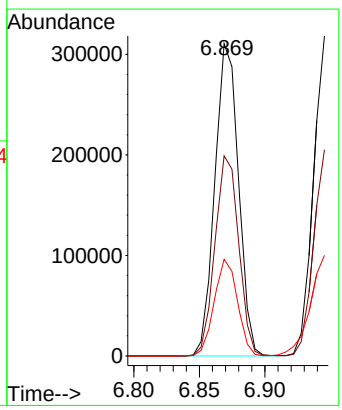


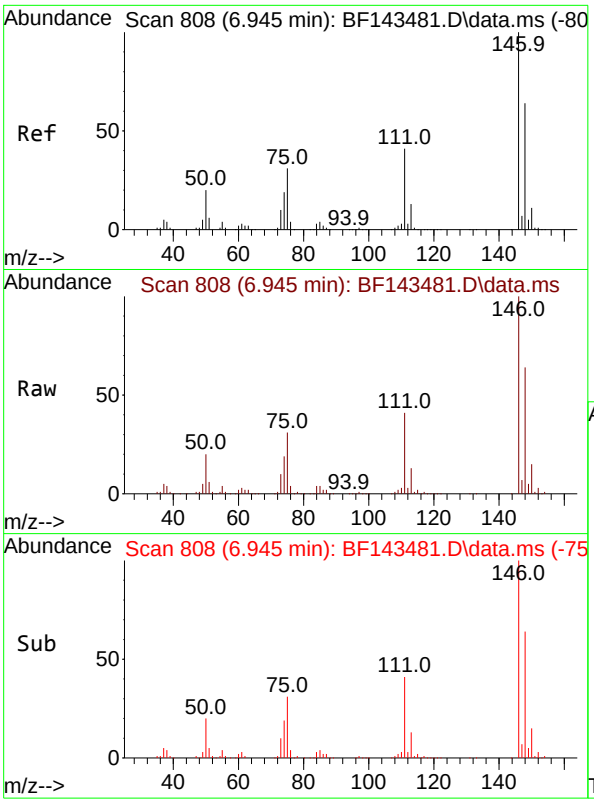


#12
1,3-Dichlorobenzene
Concen: 39.778 ng
RT: 6.869 min Scan# 795
Delta R.T. -0.006 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Tgt Ion:146 Resp: 389485

Ion	Ratio	Lower	Upper
146	100		
148	64.1	51.3	76.9
75	30.9	24.7	37.1



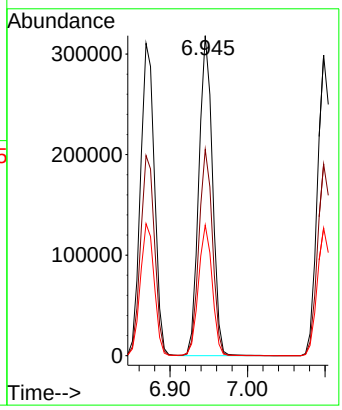


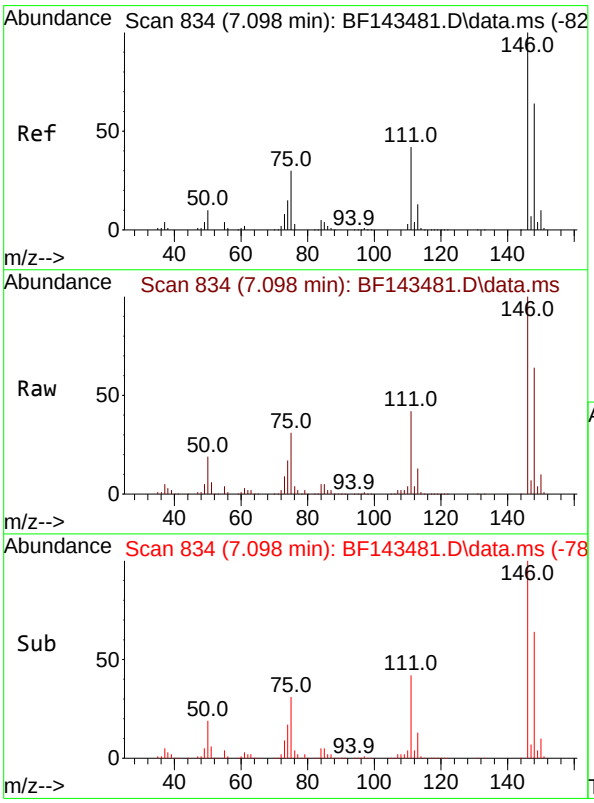
#13
1,4-Dichlorobenzene
Concen: 39.581 ng
RT: 6.945 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:146 Resp: 388762

Ion	Ratio	Lower	Upper
146	100		
148	64.4	51.5	77.3
111	40.8	32.6	49.0

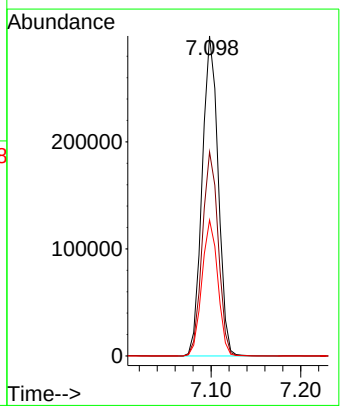


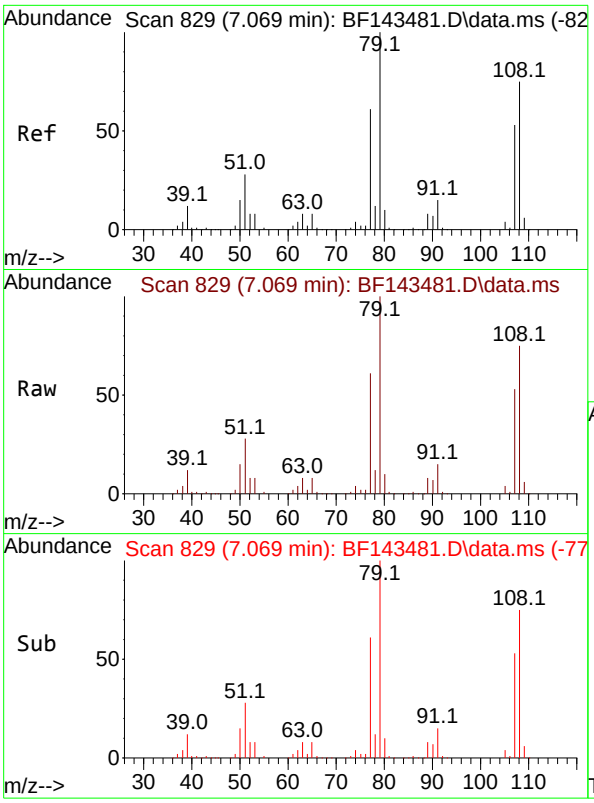


#14
1,2-Dichlorobenzene
Concen: 39.943 ng
RT: 7.098 min Scan# 834
Delta R.T. -0.000 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Tgt Ion:146 Resp: 371439

Ion	Ratio	Lower	Upper
146	100		
148	63.8	51.0	76.6
111	42.5	34.0	51.0



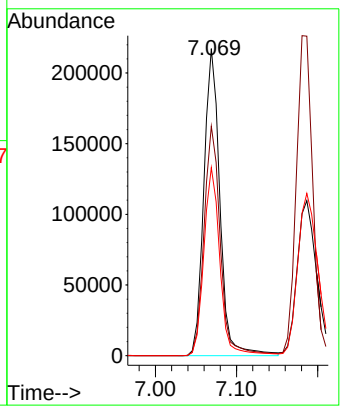


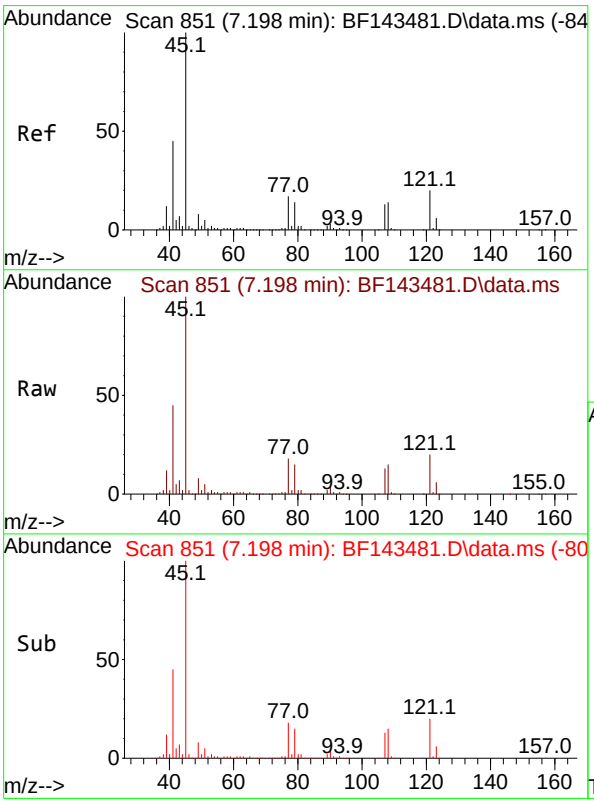
#15
Benzyl Alcohol
Concen: 40.916 ng
RT: 7.069 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 79 Resp: 298360

Ion	Ratio	Lower	Upper
79	100		
108	74.7	59.8	89.6
77	61.2	49.0	73.4

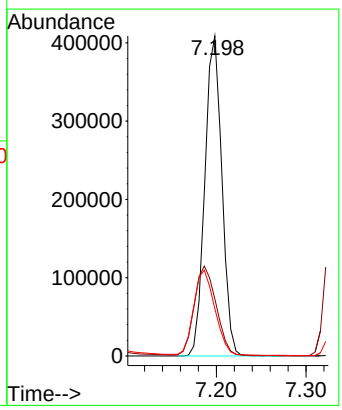


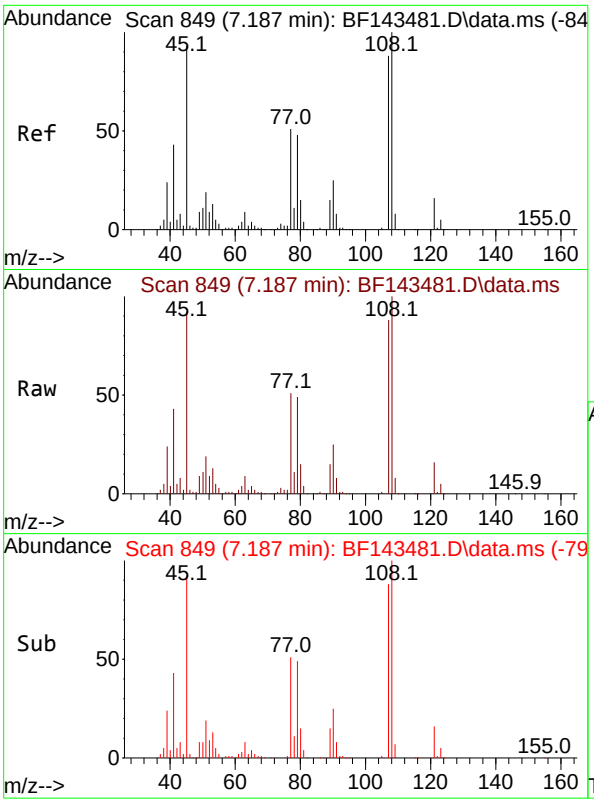


#16
2,2'-oxybis(1-Chloropropane)
Concen: 40.131 ng
RT: 7.198 min Scan# 851
Delta R.T. -0.000 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Tgt Ion: 45 Resp: 538319

Ion	Ratio	Lower	Upper
45	100		
77	17.9	0.0	37.9
79	14.7	0.0	34.7



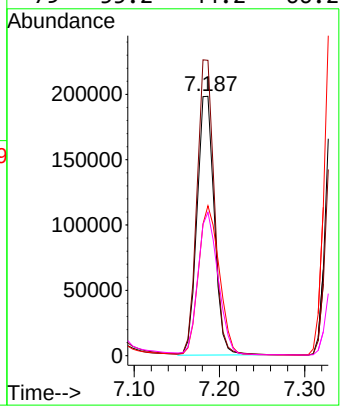


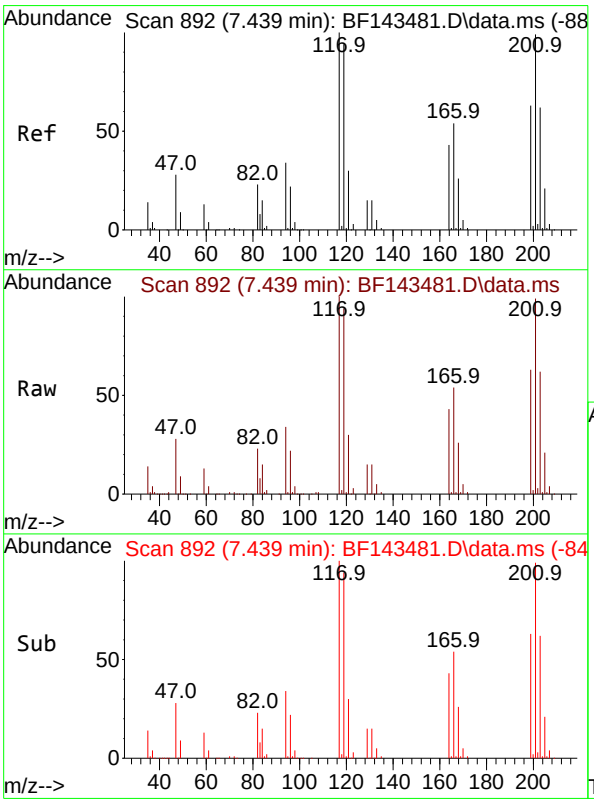
#17
2-Methylphenol
Concen: 39.844 ng
RT: 7.187 min Scan# 84
Delta R.T. -0.000 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:107 Resp: 278676

Ion	Ratio	Lower	Upper
107	100		
108	113.9	91.1	136.7
77	57.8	46.2	69.4
79	55.2	44.2	66.2

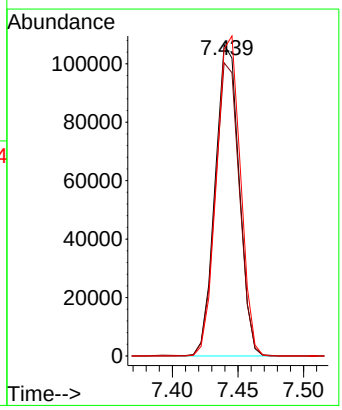


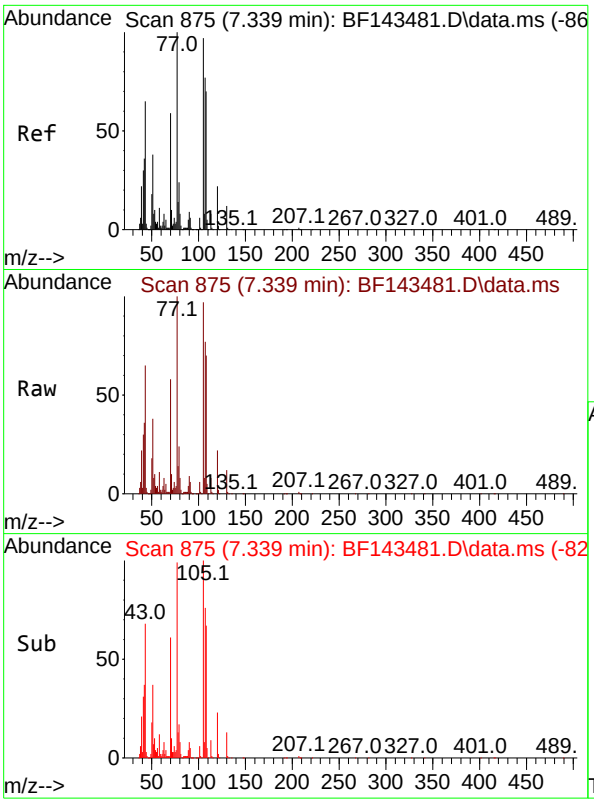


#18
Hexachloroethane
Concen: 40.503 ng
RT: 7.439 min Scan# 892
Delta R.T. -0.006 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Tgt Ion:117 Resp: 135258

Ion	Ratio	Lower	Upper
117	100		
119	94.2	75.4	113.0
201	98.7	79.0	118.4



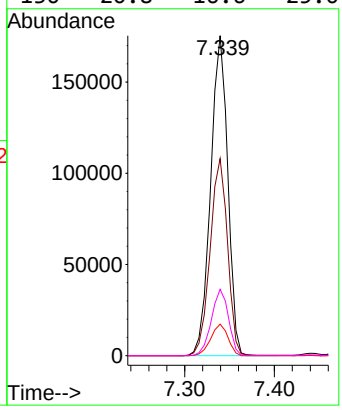


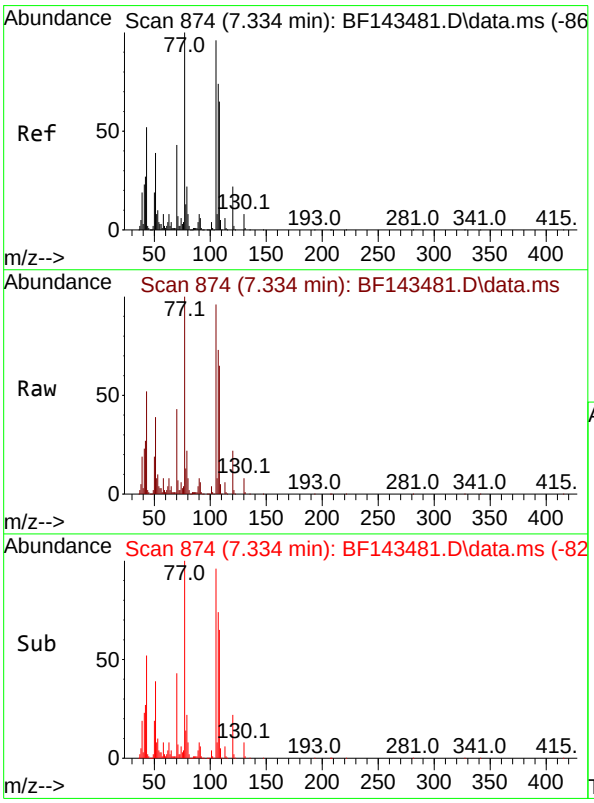
#19
n-Nitroso-di-n-propylamine
Concen: 39.076 ng
RT: 7.339 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 70 Resp: 232621

Ion	Ratio	Lower	Upper
70	100		
42	61.6	49.3	73.9
101	9.8	7.8	11.8
130	20.8	16.6	25.0

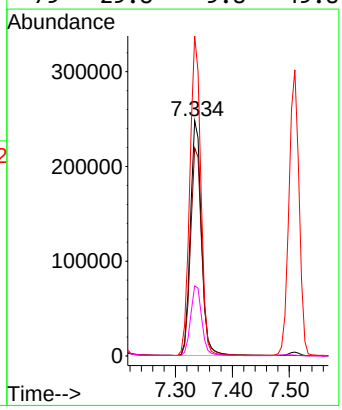


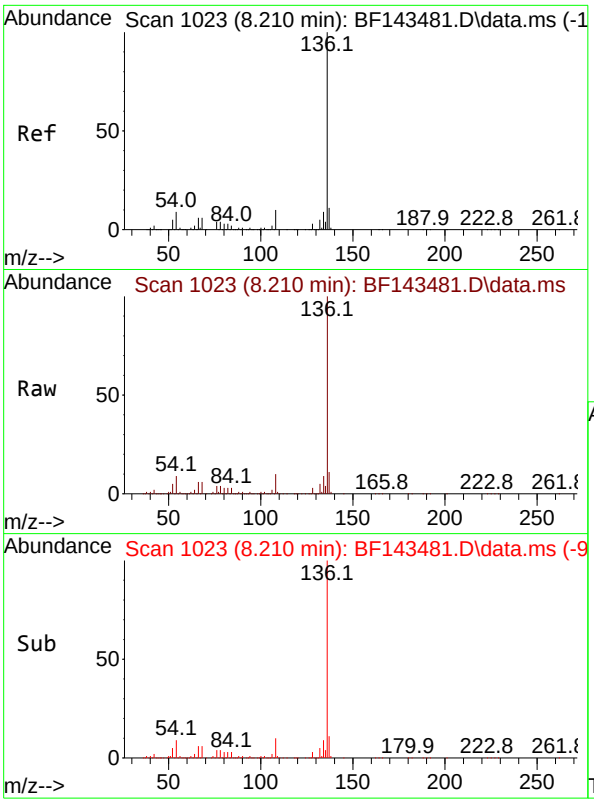


#20
3+4-Methylphenols
Concen: 40.179 ng
RT: 7.334 min Scan# 874
Delta R.T. -0.006 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Tgt Ion:107 Resp: 335474

Ion	Ratio	Lower	Upper
107	100		
108	88.4	68.4	108.4
77	136.1	116.1	156.1
79	29.8	9.8	49.8



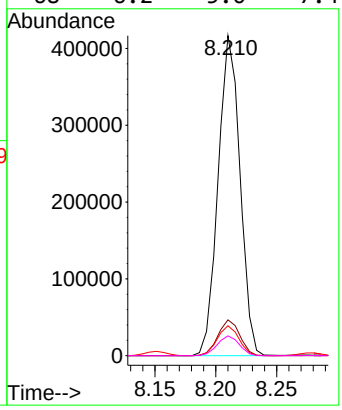


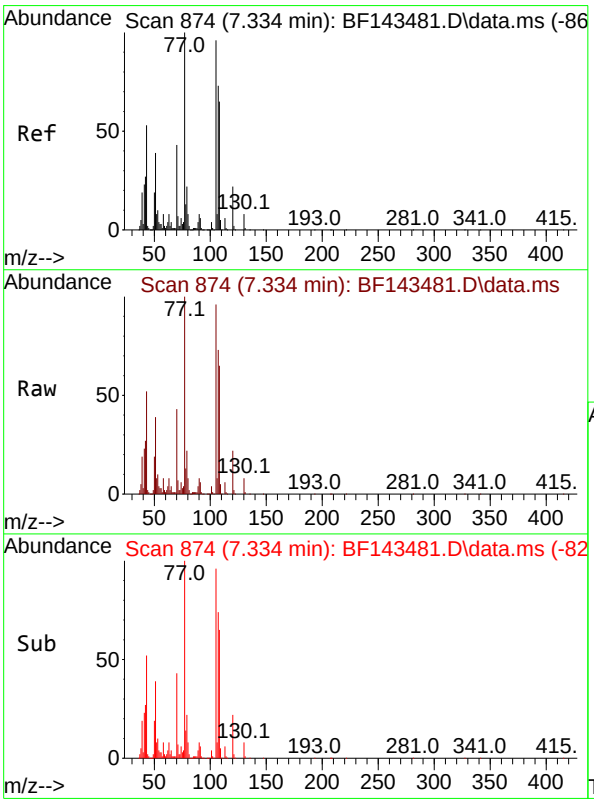
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.210 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:136 Resp: 521928

Ion	Ratio	Lower	Upper
136	100		
137	11.2	9.0	13.4
54	9.3	7.4	11.2
68	6.2	5.0	7.4

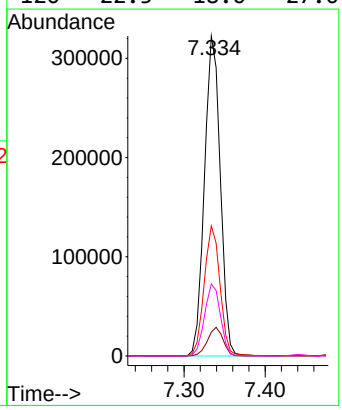


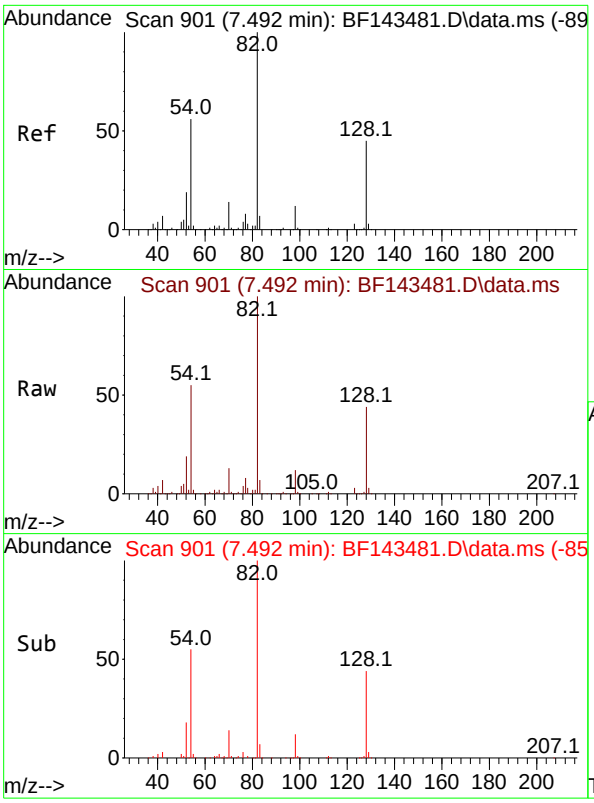


#22
Acetophenone
Concen: 38.728 ng
RT: 7.334 min Scan# 874
Delta R.T. -0.006 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Tgt Ion:105 Resp: 436693

Ion	Ratio	Lower	Upper
105	100		
71	7.4	5.9	8.9
51	40.6	32.5	48.7
120	22.5	18.0	27.0



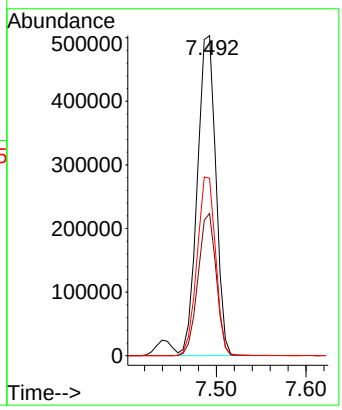


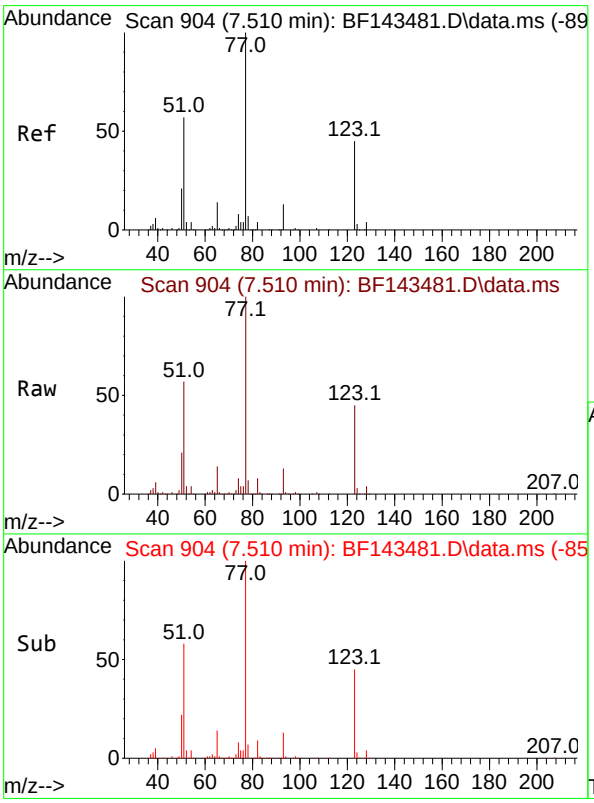
#23
Nitrobenzene-d5
Concen: 80.266 ng
RT: 7.492 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 82 Resp: 717900

Ion	Ratio	Lower	Upper
82	100		
128	44.4	35.5	53.3
54	55.4	44.3	66.5

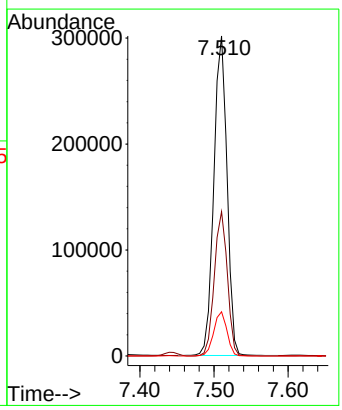


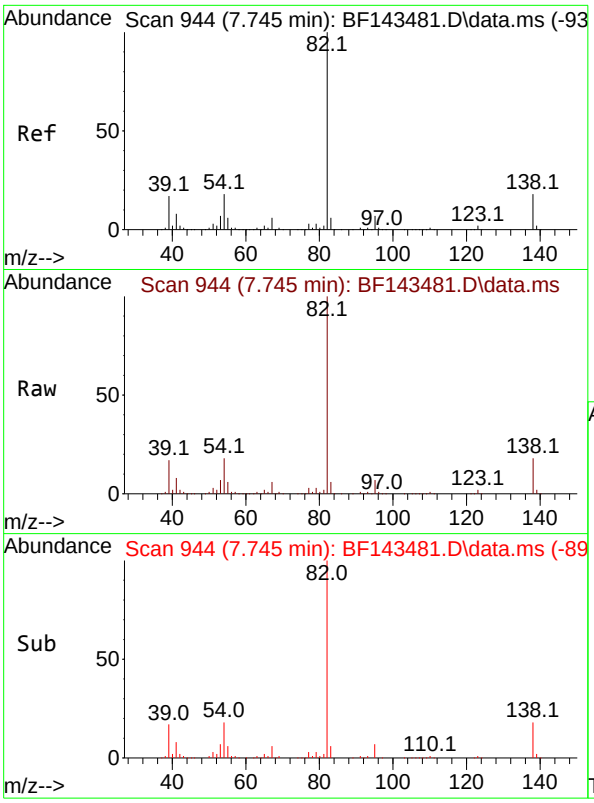


#24
Nitrobenzene
Concen: 40.403 ng
RT: 7.510 min Scan# 904
Delta R.T. -0.006 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Tgt Ion: 77 Resp: 371931

Ion	Ratio	Lower	Upper
77	100		
123	45.1	36.1	54.1
65	13.8	11.0	16.6



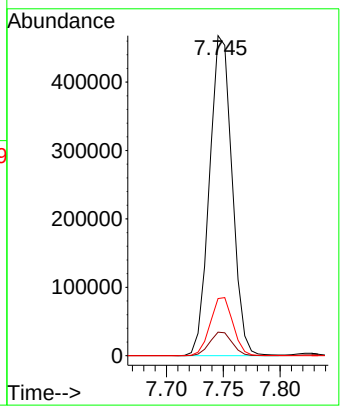


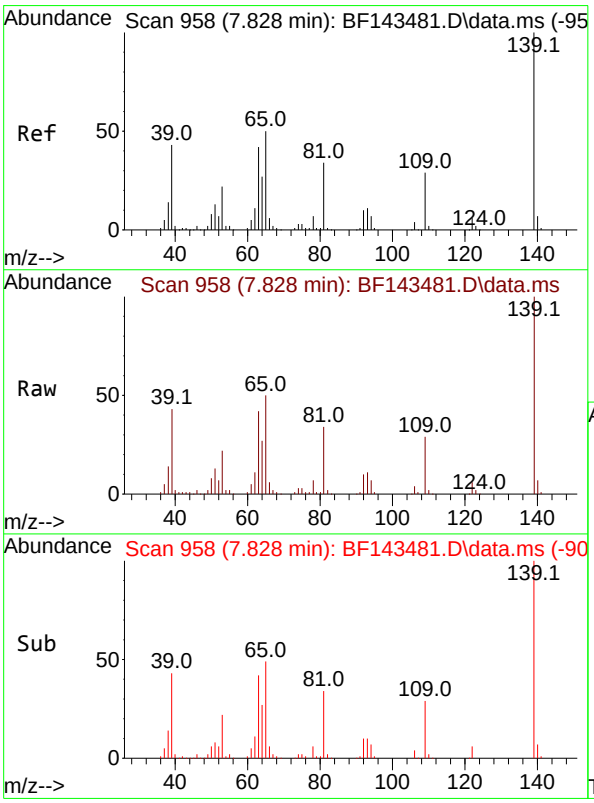
#25
Isophorone
Concen: 39.546 ng
RT: 7.745 min Scan# 94
Delta R.T. -0.012 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 82 Resp: 648362

Ion	Ratio	Lower	Upper
82	100		
95	7.3	5.8	8.8
138	17.8	14.2	21.4

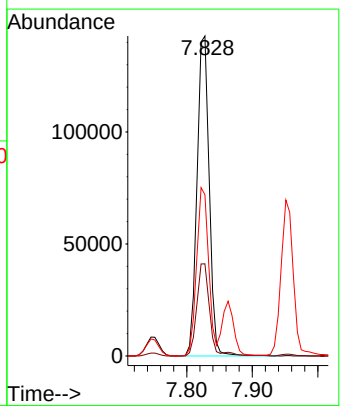


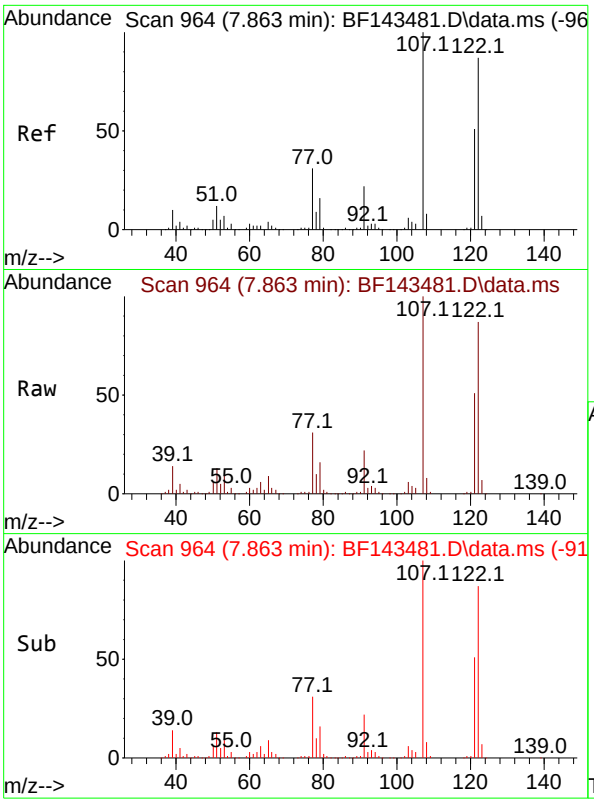


#26
2-Nitrophenol
Concen: 41.084 ng
RT: 7.828 min Scan# 958
Delta R.T. -0.000 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Tgt Ion:139 Resp: 185255

Ion	Ratio	Lower	Upper
139	100		
109	28.8	23.0	34.6
65	50.4	40.3	60.5



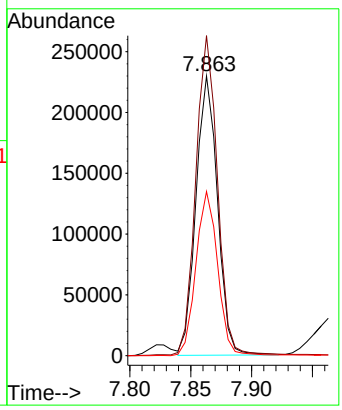


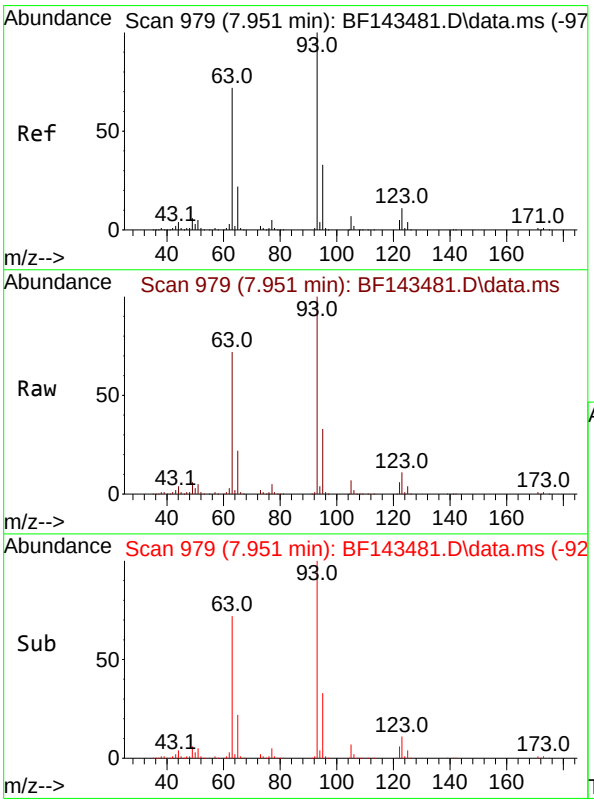
#27
2,4-Dimethylphenol
Concen: 40.116 ng
RT: 7.863 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:122 Resp: 281983

Ion	Ratio	Lower	Upper
122	100		
107	114.4	91.5	137.3
121	58.7	47.0	70.4

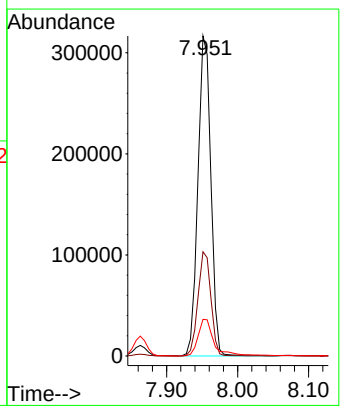


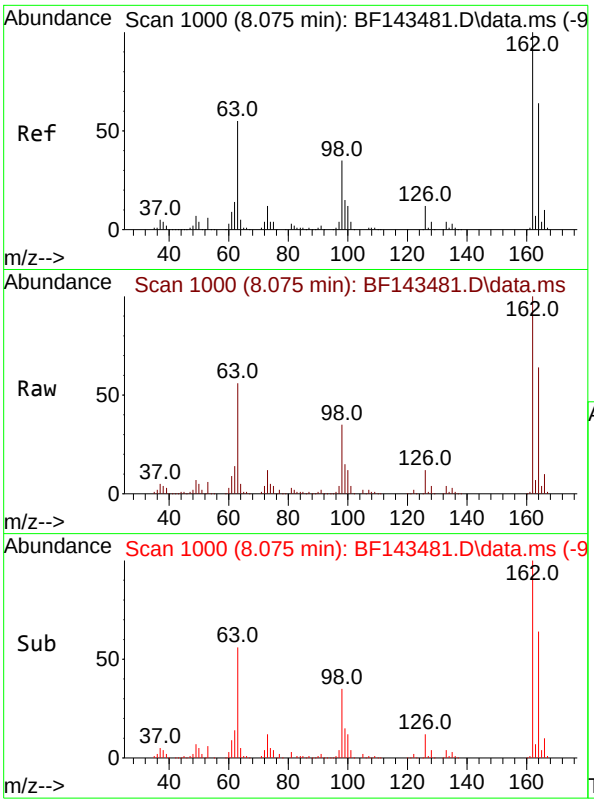


#28
bis(2-Chloroethoxy)methane
Concen: 39.973 ng
RT: 7.951 min Scan# 979
Delta R.T. -0.006 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Tgt Ion: 93 Resp: 402757

Ion	Ratio	Lower	Upper
93	100		
95	32.5	26.0	39.0
123	11.4	9.1	13.7



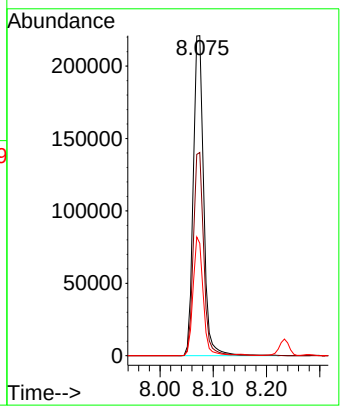


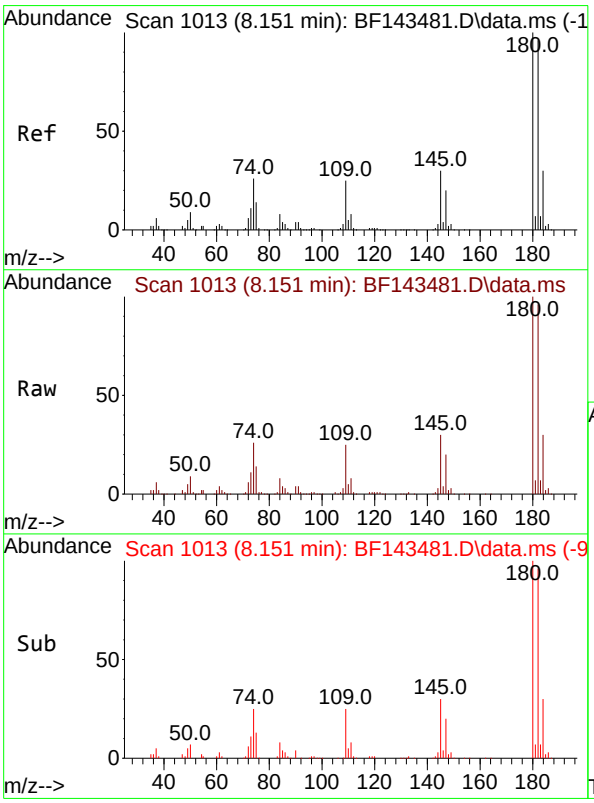
#29
2,4-Dichlorophenol
Concen: 40.095 ng
RT: 8.075 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:162 Resp: 301002

Ion	Ratio	Lower	Upper
162	100		
164	63.5	43.5	83.5
98	35.1	15.1	55.1

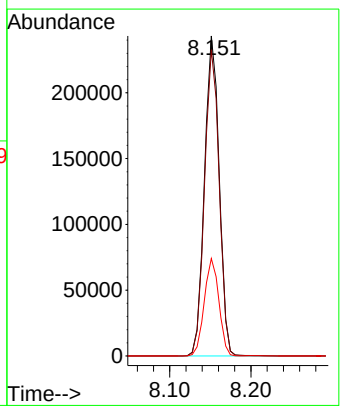


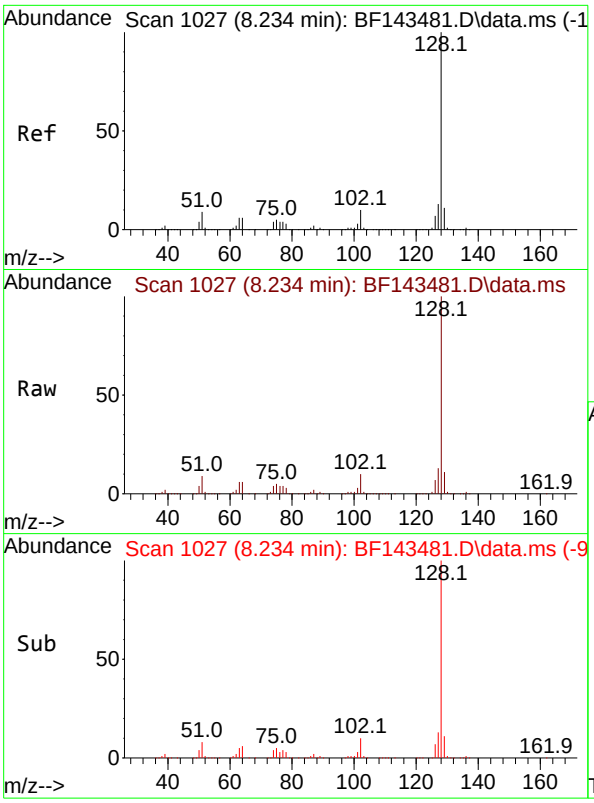


#30
1,2,4-Trichlorobenzene
Concen: 39.529 ng
RT: 8.151 min Scan# 1013
Delta R.T. -0.000 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Tgt Ion:180 Resp: 305107

Ion	Ratio	Lower	Upper
180	100		
182	95.7	76.6	114.8
145	30.4	24.3	36.5



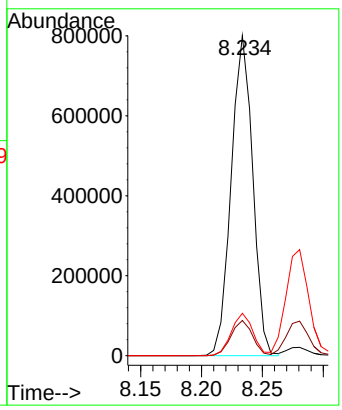


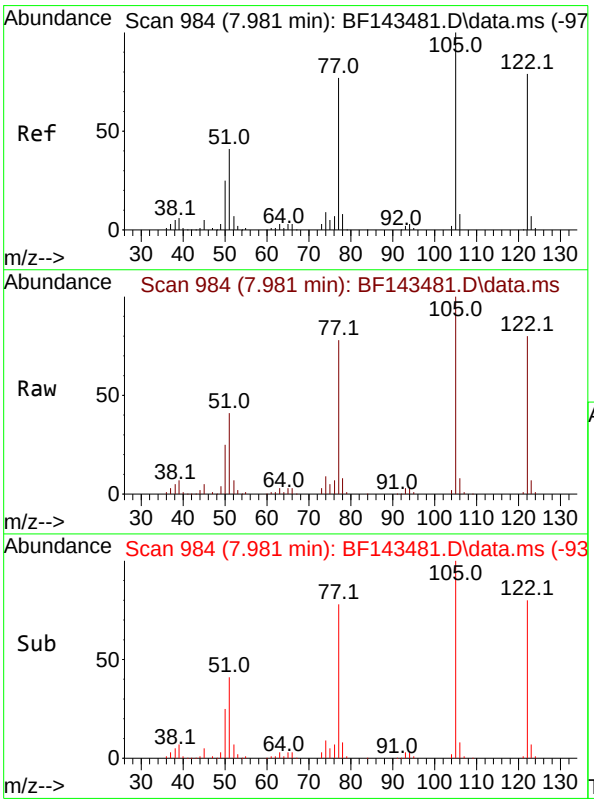
#31
Naphthalene
Concen: 39.296 ng
RT: 8.234 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:128 Resp: 984671

Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.8	13.2
127	13.3	10.6	16.0

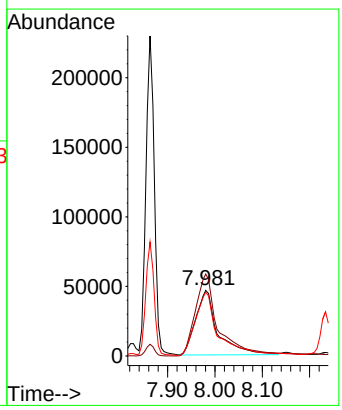


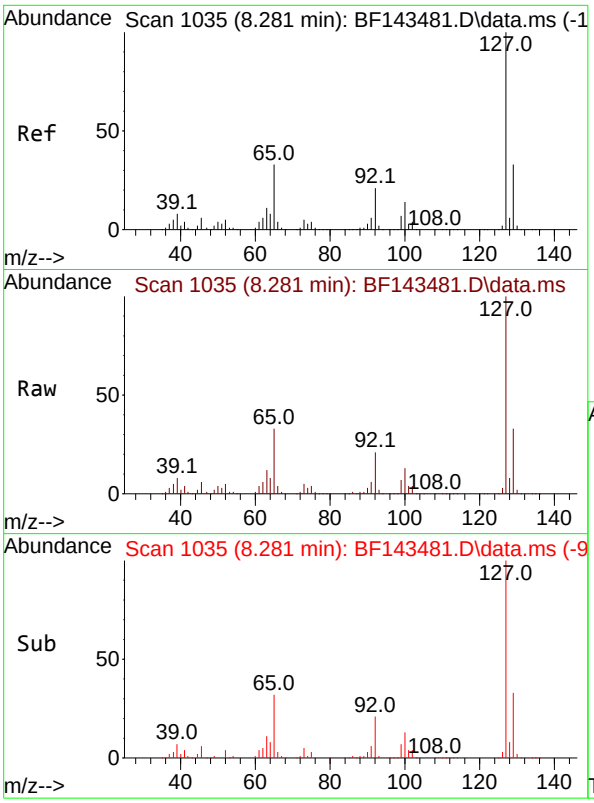


#32
Benzoic acid
Concen: 39.150 ng
RT: 7.981 min Scan# 984
Delta R.T. -0.029 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Tgt Ion:122 Resp: 151495

Ion	Ratio	Lower	Upper
122	100		
105	124.7	104.7	144.7
77	97.3	77.3	117.3



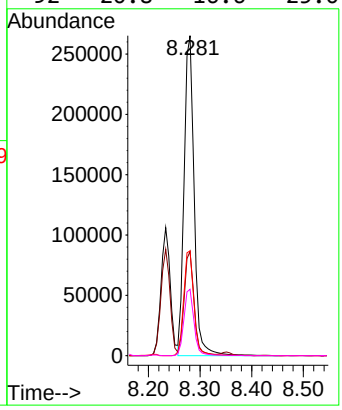


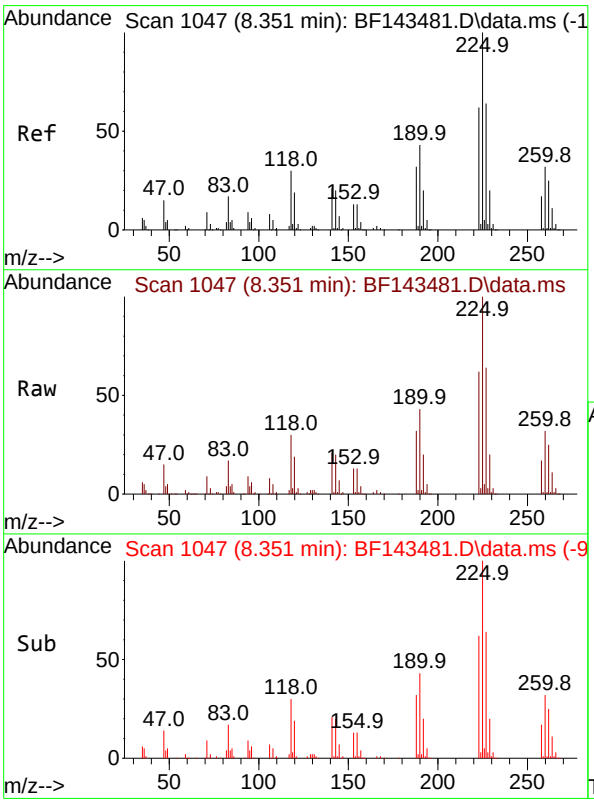
#33
4-Chloroaniline
Concen: 40.237 ng
RT: 8.281 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:127 Resp: 357854

Ion	Ratio	Lower	Upper
127	100		
129	32.6	26.1	39.1
65	32.7	26.2	39.2
92	20.8	16.6	25.0

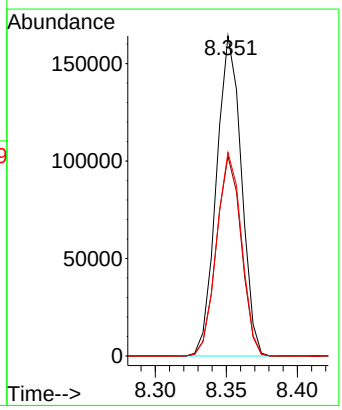


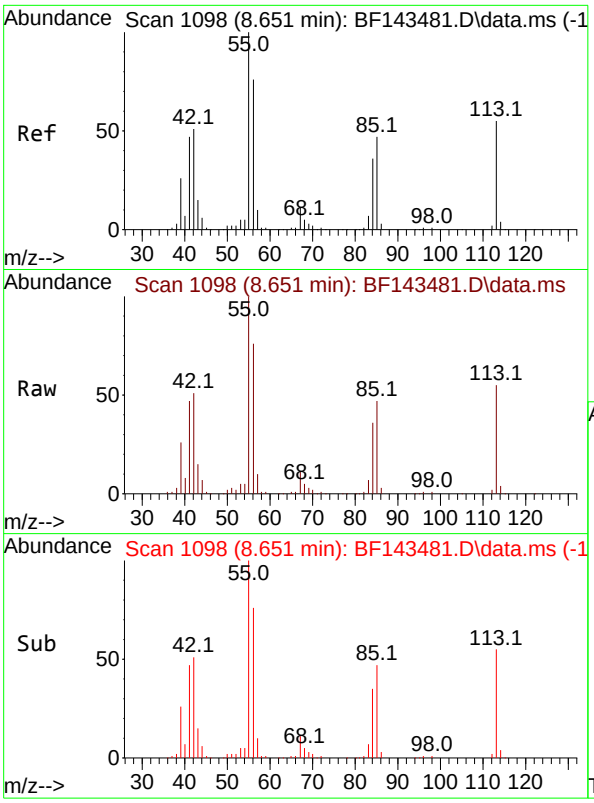


#34
Hexachlorobutadiene
Concen: 39.756 ng
RT: 8.351 min Scan# 1047
Delta R.T. -0.000 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Tgt Ion:225 Resp: 200199

Ion	Ratio	Lower	Upper
225	100		
223	62.4	49.9	74.9
227	63.6	50.9	76.3



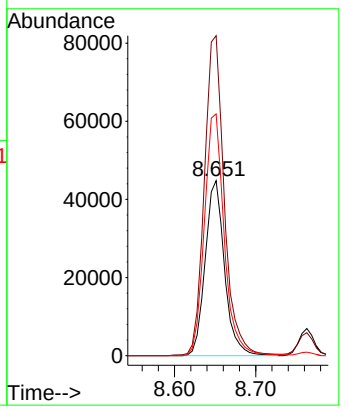


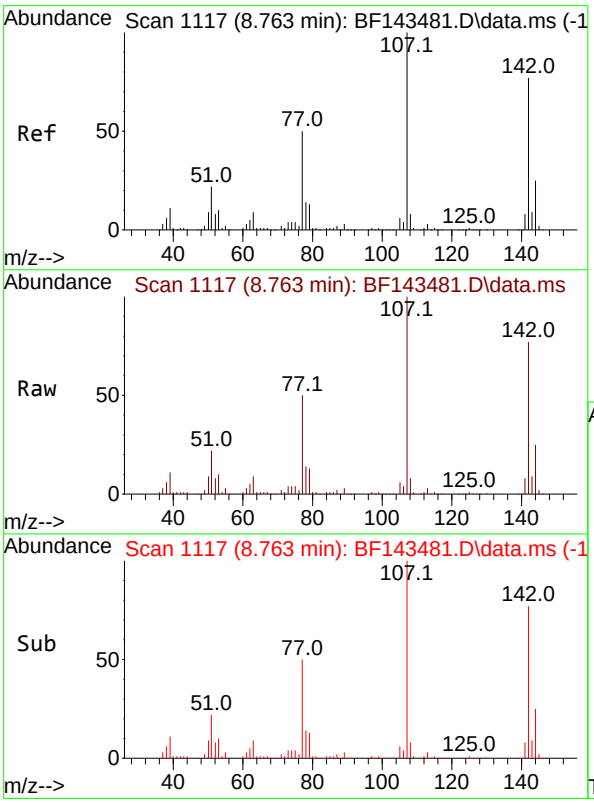
#35
Caprolactam
Concen: 41.004 ng
RT: 8.651 min Scan# 1
Delta R.T. -0.024 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:113 Resp: 73867

Ion	Ratio	Lower	Upper
113	100		
55	182.8	162.8	202.8
56	138.1	118.1	158.1

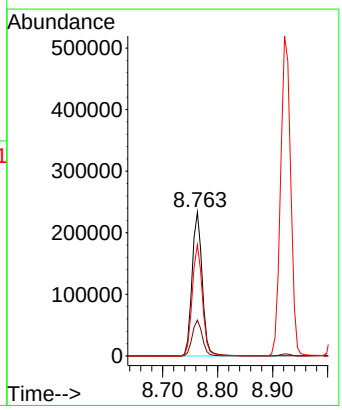


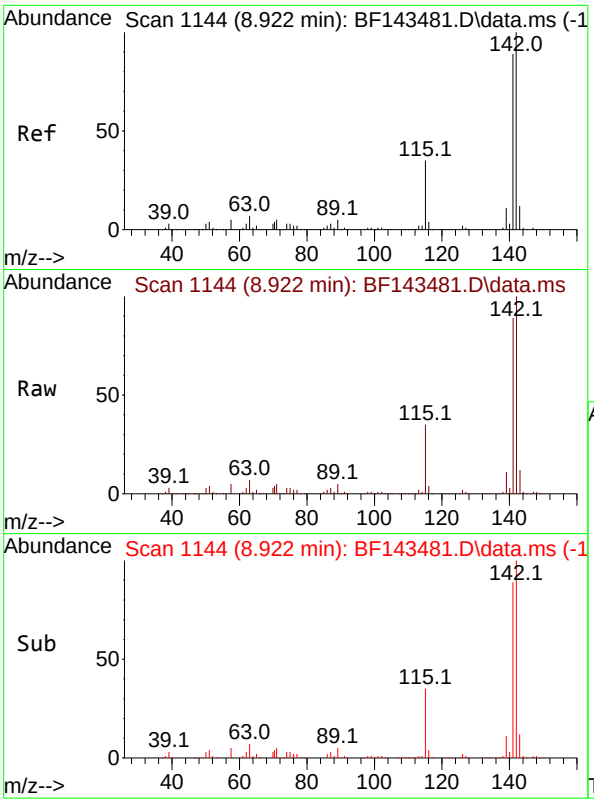


#36
4-Chloro-3-methylphenol
Concen: 39.889 ng
RT: 8.763 min Scan# 1117
Delta R.T. -0.006 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Tgt Ion:107 Resp: 300101

Ion	Ratio	Lower	Upper
107	100		
144	24.9	19.9	29.9
142	77.3	61.8	92.8



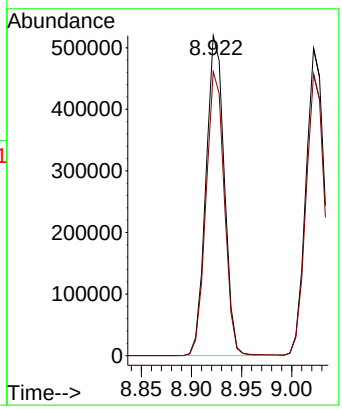


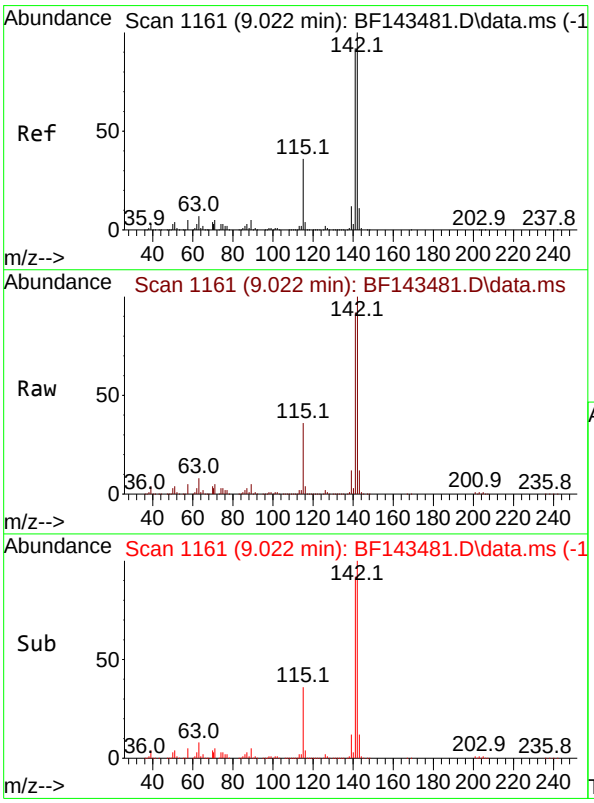
#37
2-Methylnaphthalene
Concen: 39.489 ng
RT: 8.922 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:142 Resp: 660885

Ion	Ratio	Lower	Upper
142	100		
141	88.7	71.0	106.4

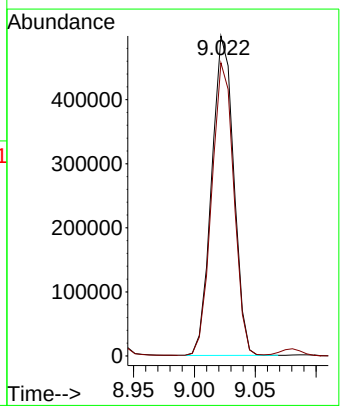


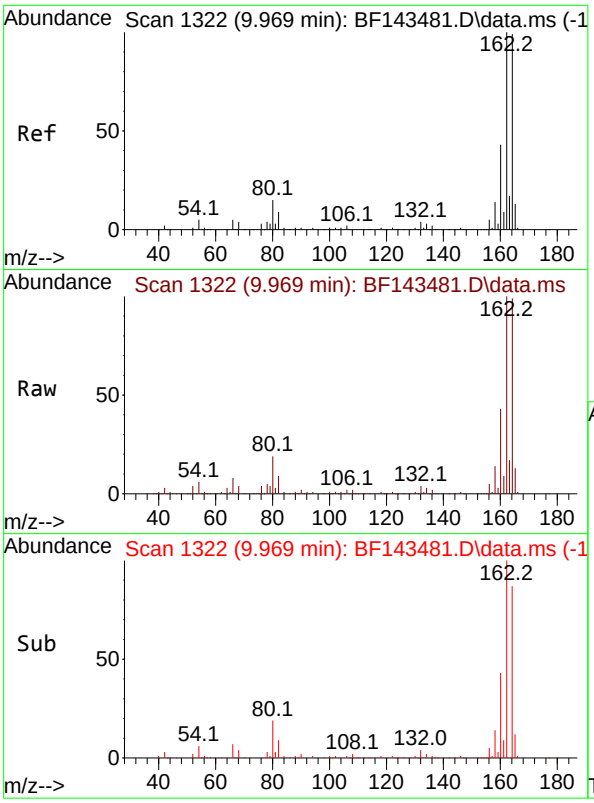


#38
1-Methylnaphthalene
Concen: 39.300 ng
RT: 9.022 min Scan# 1161
Delta R.T. -0.006 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Tgt Ion:142 Resp: 629141

Ion	Ratio	Lower	Upper
142	100		
141	91.6	73.3	109.9



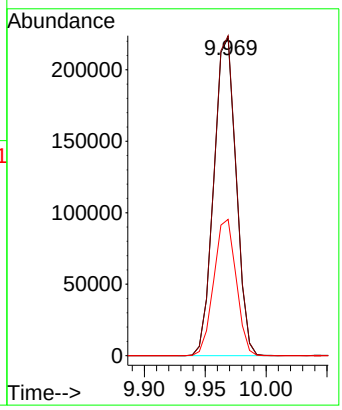


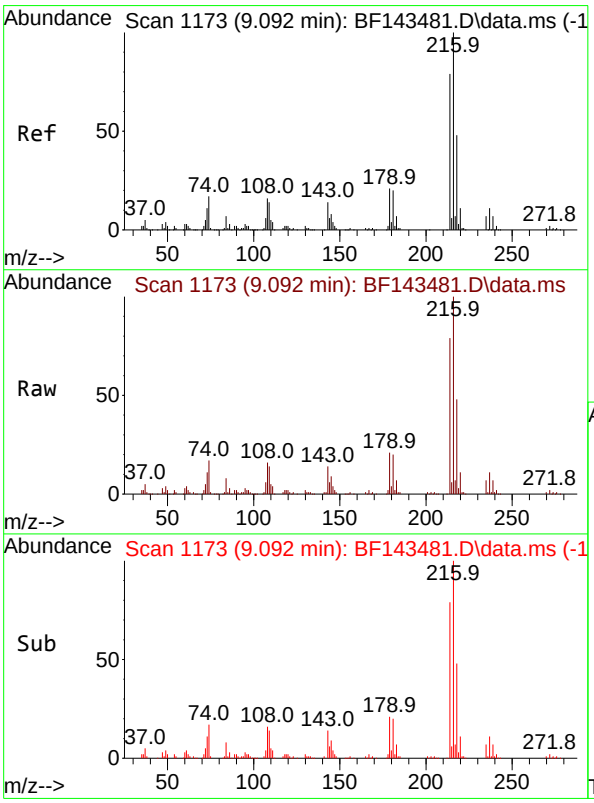
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:164 Resp: 282852

Ion	Ratio	Lower	Upper
164	100		
162	100.6	80.5	120.7
160	42.9	34.3	51.5

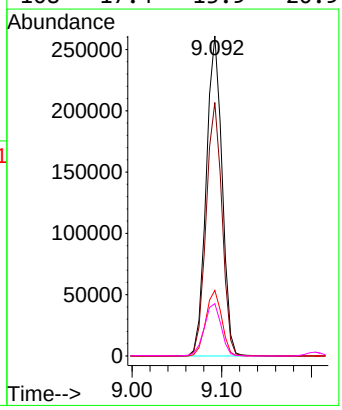


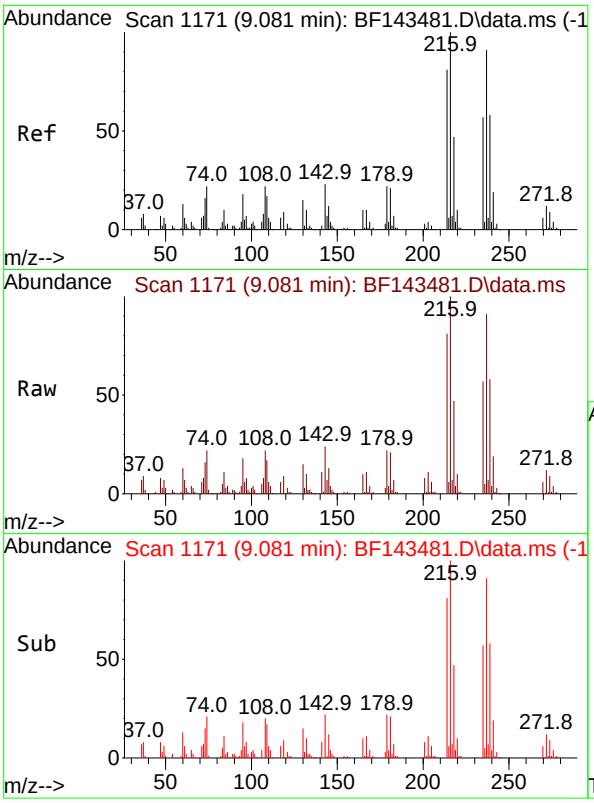


#40
1,2,4,5-Tetrachlorobenzene
Concen: 39.526 ng
RT: 9.092 min Scan# 1173
Delta R.T. -0.000 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Tgt Ion:216 Resp: 319789

Ion	Ratio	Lower	Upper
216	100		
214	79.2	63.4	95.0
179	20.6	16.5	24.7
108	17.4	13.9	20.9



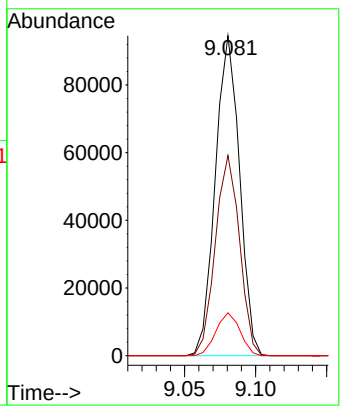


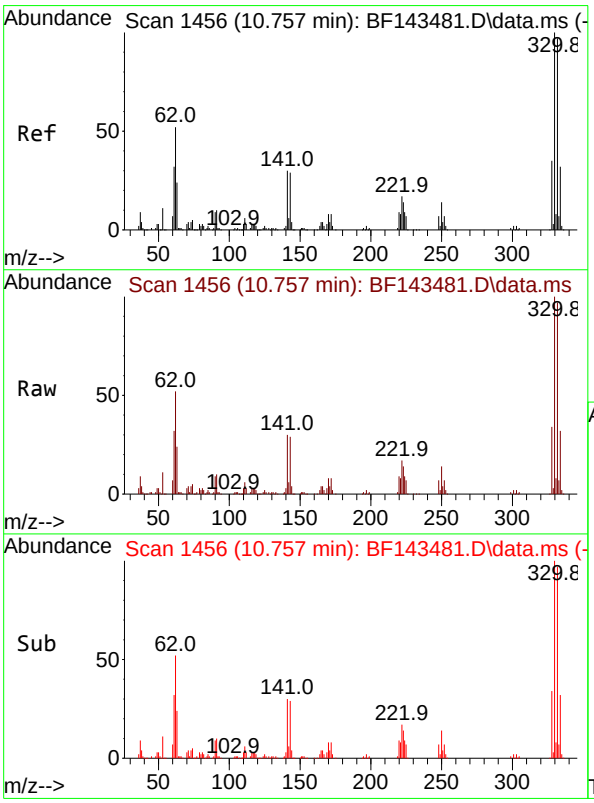
#41
Hexachlorocyclopentadiene
Concen: 39.218 ng
RT: 9.081 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:237 Resp: 112053

Ion	Ratio	Lower	Upper
237	100		
235	62.6	42.6	82.6
272	13.4	0.0	33.4

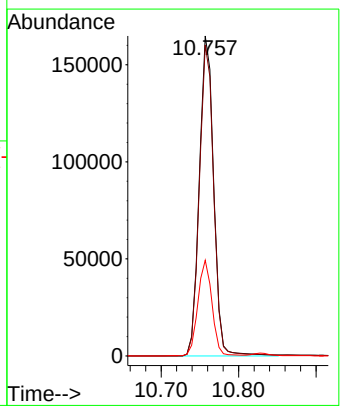


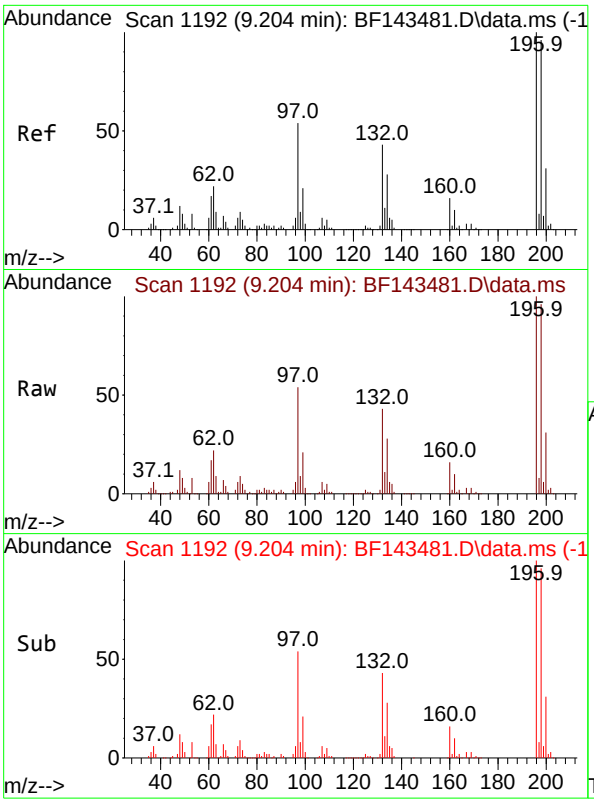


#42
2,4,6-Tribromophenol
Concen: 80.744 ng
RT: 10.757 min Scan# 1456
Delta R.T. -0.006 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Tgt Ion:330 Resp: 212595

Ion	Ratio	Lower	Upper
330	100		
332	97.5	78.0	117.0
141	29.6	23.7	35.5



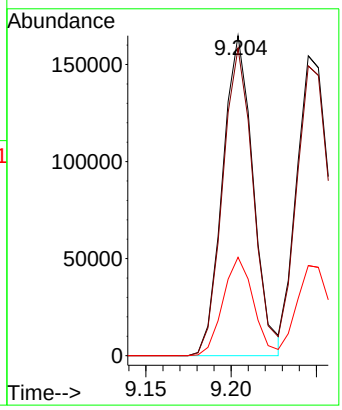


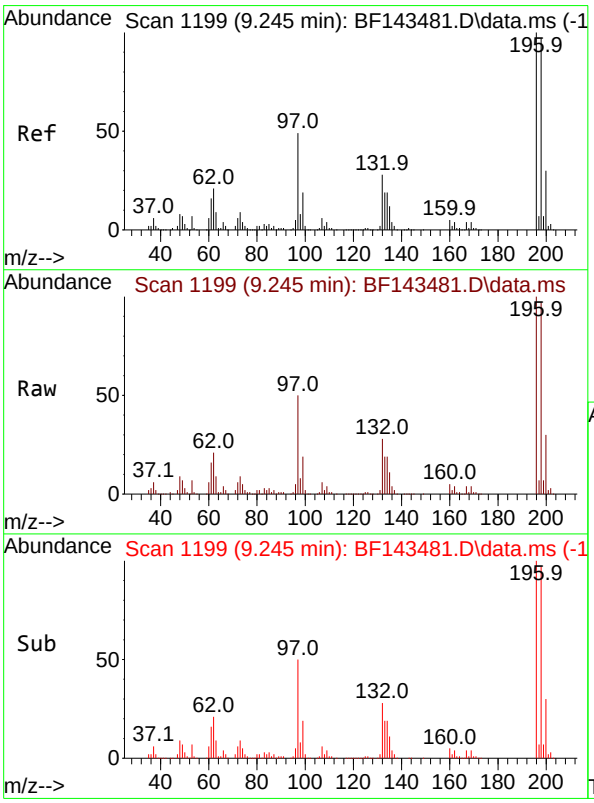
#43
2,4,6-Trichlorophenol
Concen: 41.387 ng
RT: 9.204 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:196 Resp: 206042

Ion	Ratio	Lower	Upper
196	100		
198	96.2	77.0	115.4
200	30.8	24.6	37.0

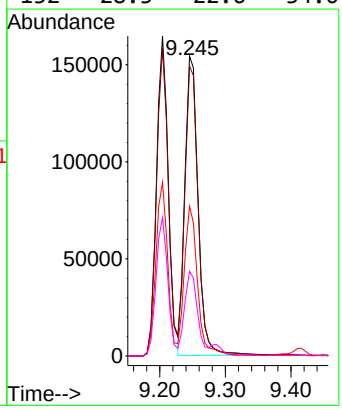


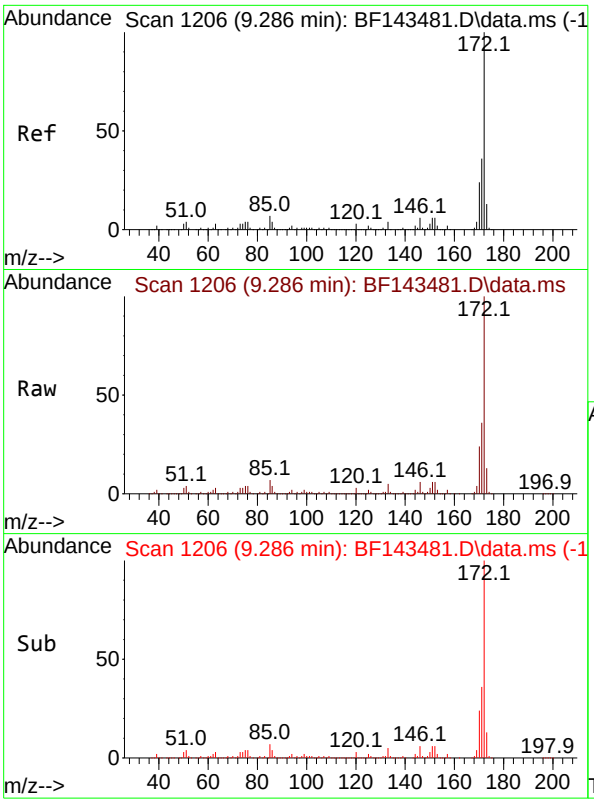


#44
2,4,5-Trichlorophenol
Concen: 39.748 ng
RT: 9.245 min Scan# 1199
Delta R.T. -0.006 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Tgt Ion:196 Resp: 216152

Ion	Ratio	Lower	Upper
196	100		
198	96.6	77.3	115.9
97	50.0	40.0	60.0
132	28.3	22.6	34.0



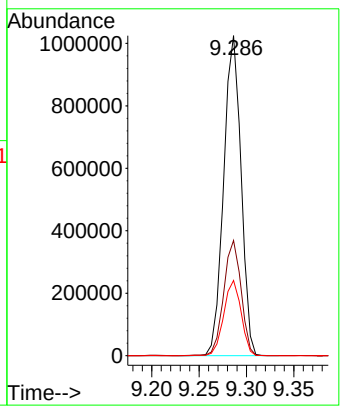


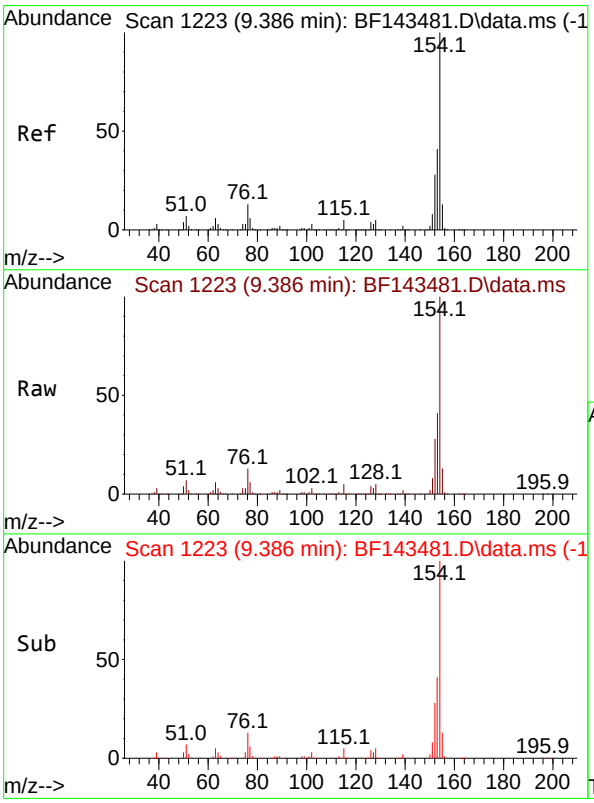
#45
2-Fluorobiphenyl
Concen: 76.419 ng
RT: 9.286 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:172 Resp: 1307900

Ion	Ratio	Lower	Upper
172	100		
171	36.0	28.8	43.2
170	23.5	18.8	28.2

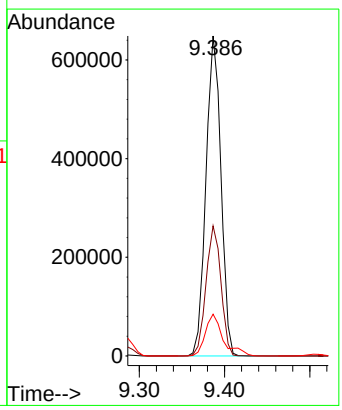


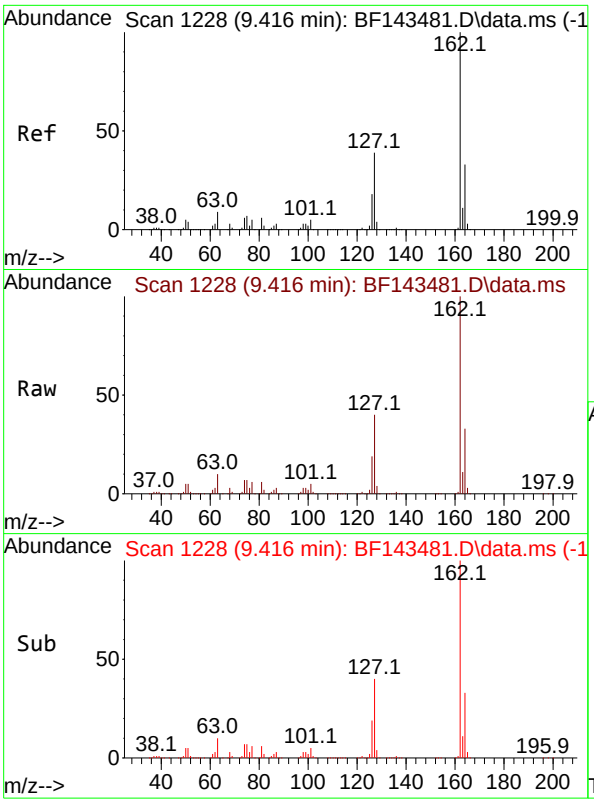


#46
1,1'-Biphenyl
Concen: 39.412 ng
RT: 9.386 min Scan# 1223
Delta R.T. -0.006 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Tgt Ion:154 Resp: 791238

Ion	Ratio	Lower	Upper
154	100		
153	40.6	20.6	60.6
76	13.0	0.0	33.0



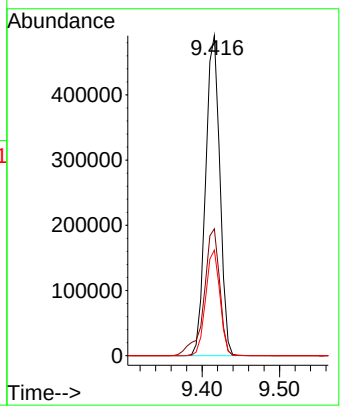


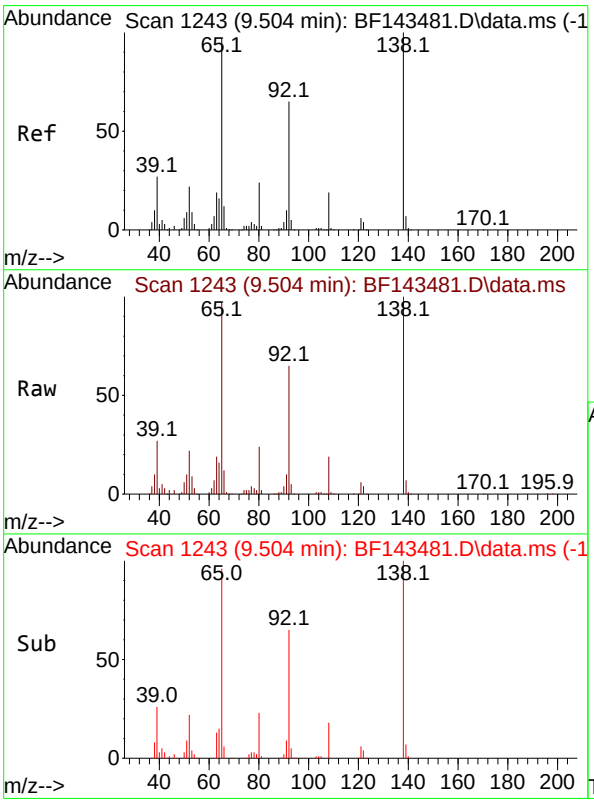
#47
2-Chloronaphthalene
Concen: 39.699 ng
RT: 9.416 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:162 Resp: 625355

Ion	Ratio	Lower	Upper
162	100		
127	39.7	31.8	47.6
164	33.0	26.4	39.6

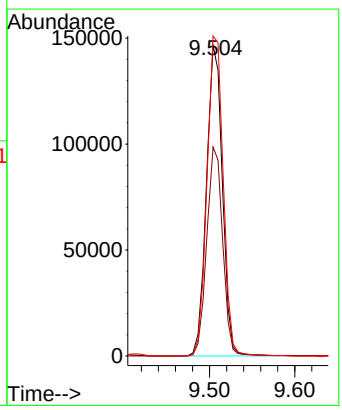


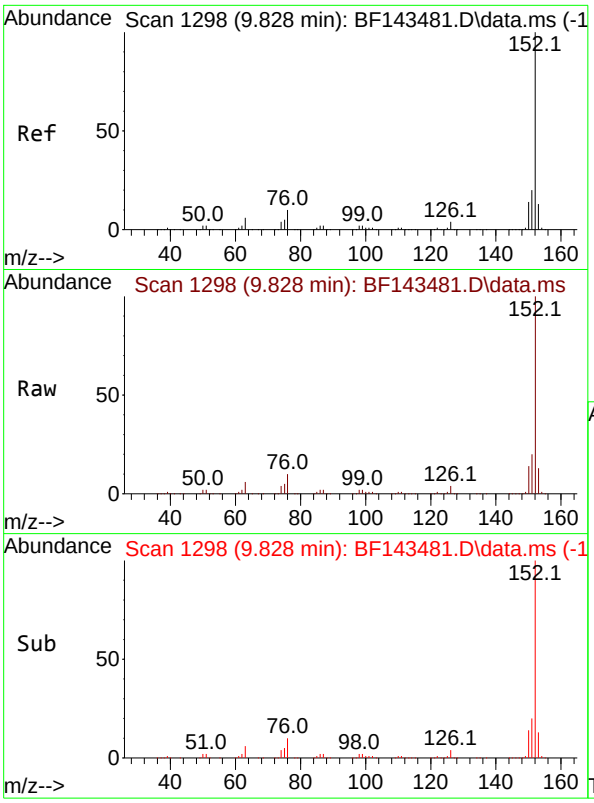


#48
2-Nitroaniline
Concen: 41.336 ng
RT: 9.504 min Scan# 1243
Delta R.T. -0.006 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Tgt Ion: 65 Resp: 190564

Ion	Ratio	Lower	Upper
65	100		
92	67.2	53.8	80.6
138	103.0	82.4	123.6



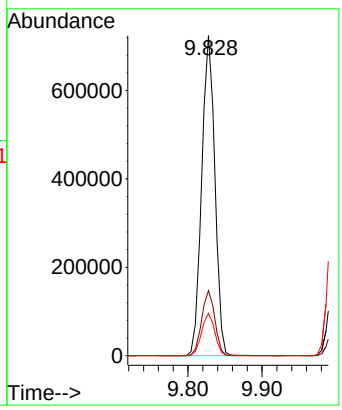


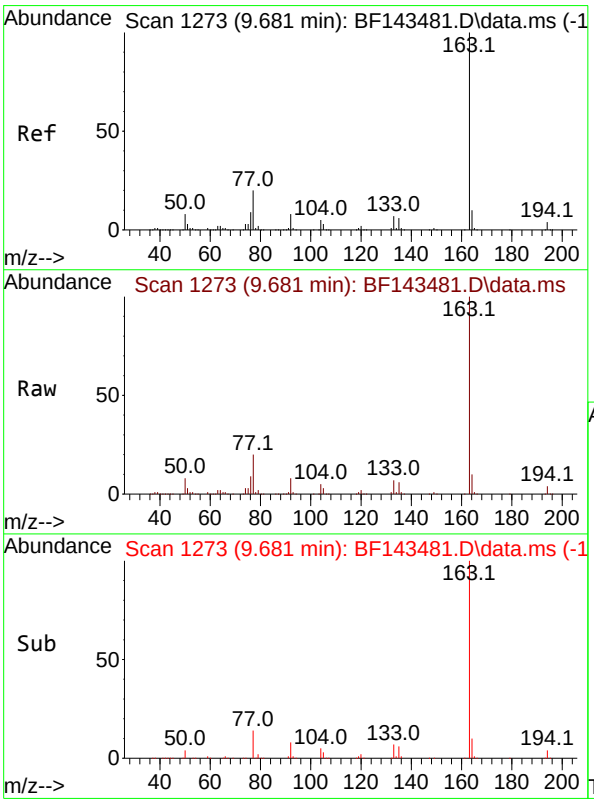
#49
Acenaphthylene
Concen: 39.620 ng
RT: 9.828 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:152 Resp: 893624

Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.2	24.4
153	13.2	10.6	15.8

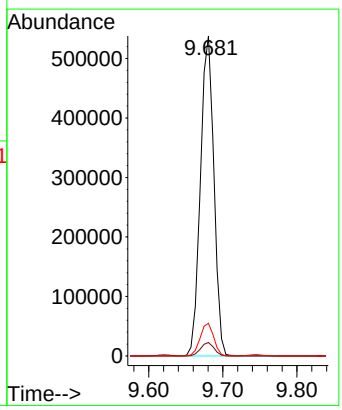


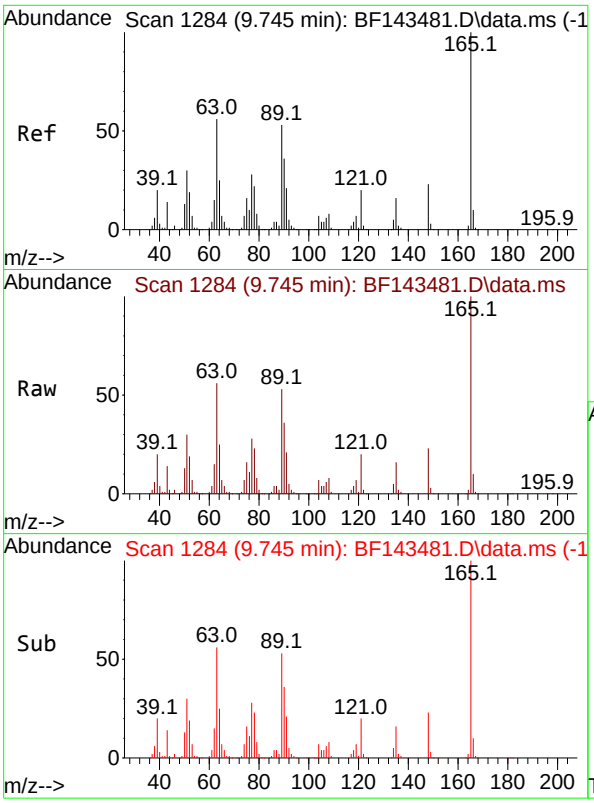


#50
Dimethylphthalate
Concen: 39.881 ng
RT: 9.681 min Scan# 1273
Delta R.T. -0.000 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Tgt Ion:163 Resp: 679389

Ion	Ratio	Lower	Upper
163	100		
194	4.2	3.4	5.0
164	10.2	8.2	12.2



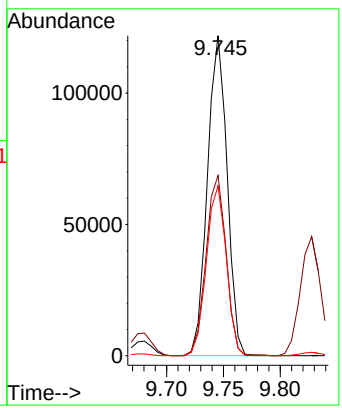


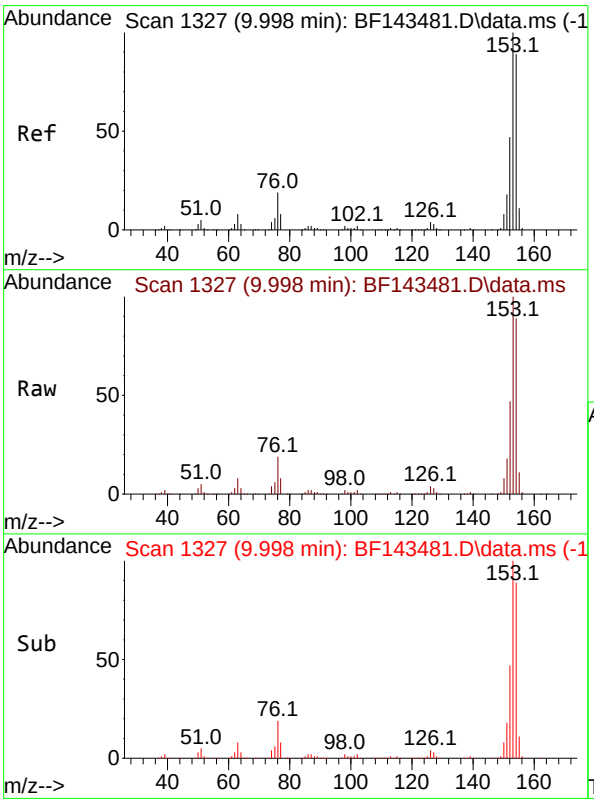
#51
2,6-Dinitrotoluene
Concen: 41.551 ng
RT: 9.745 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:165 Resp: 146703

Ion	Ratio	Lower	Upper
165	100		
63	56.3	45.0	67.6
89	53.1	42.5	63.7

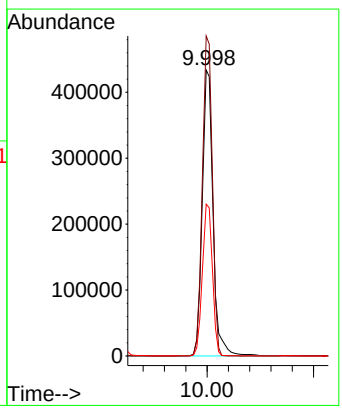


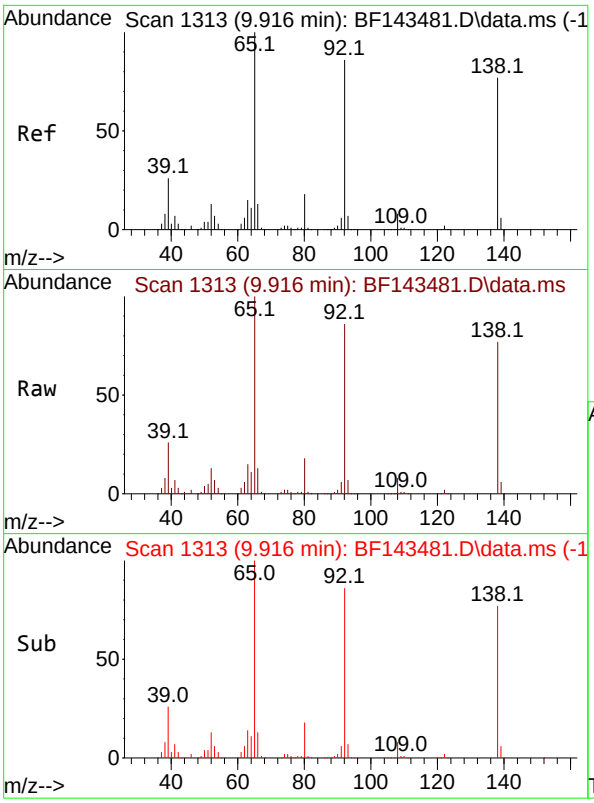


#52
Acenaphthene
Concen: 39.745 ng
RT: 9.998 min Scan# 1327
Delta R.T. -0.006 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Tgt Ion:154 Resp: 608648

Ion	Ratio	Lower	Upper
154	100		
153	111.9	89.5	134.3
152	53.1	42.5	63.7



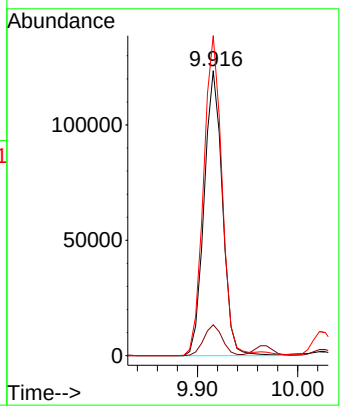


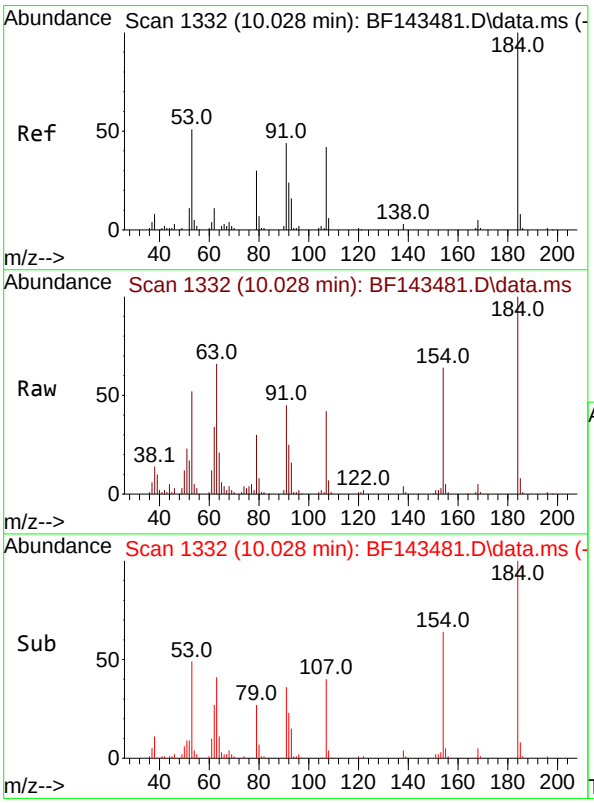
#53
3-Nitroaniline
Concen: 41.163 ng
RT: 9.916 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:138 Resp: 157042

Ion	Ratio	Lower	Upper
138	100		
108	10.8	8.6	13.0
92	112.3	89.8	134.8

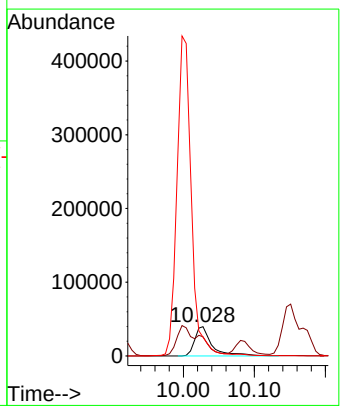


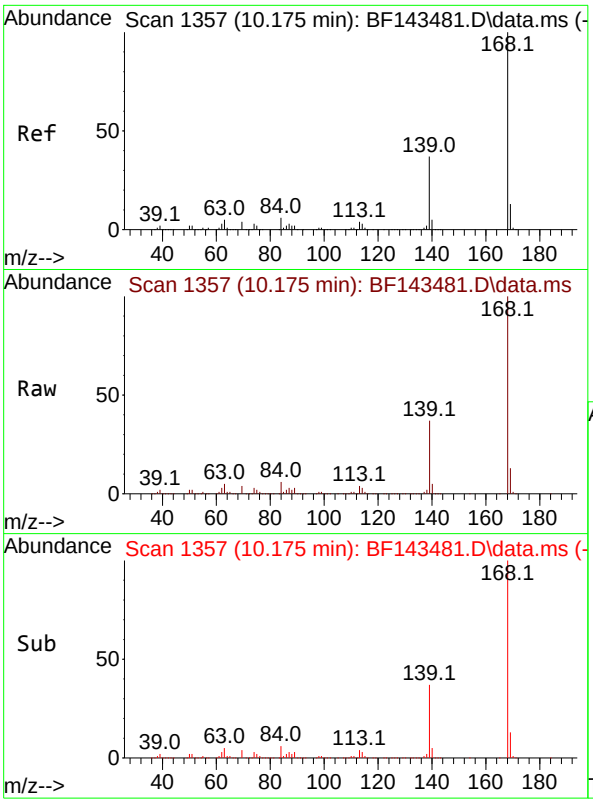


#54
2,4-Dinitrophenol
Concen: 38.822 ng
RT: 10.028 min Scan# 1332
Delta R.T. -0.000 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Tgt Ion:184 Resp: 67793

Ion	Ratio	Lower	Upper
184	100		
63	65.7	52.6	78.8
154	63.7	51.0	76.4



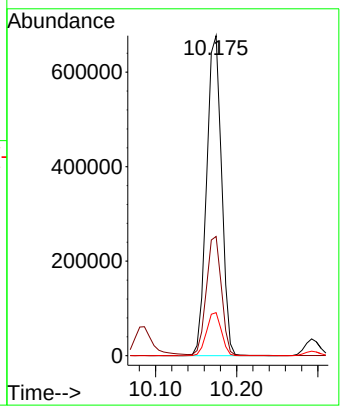


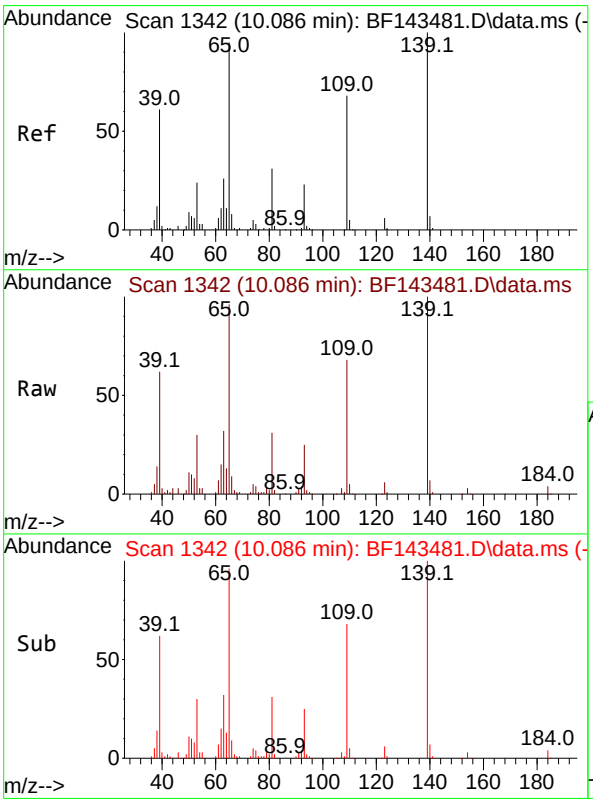
#55
Dibenzofuran
Concen: 39.465 ng
RT: 10.175 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:168 Resp: 861659

Ion	Ratio	Lower	Upper
168	100		
139	37.2	29.8	44.6
169	13.5	10.8	16.2

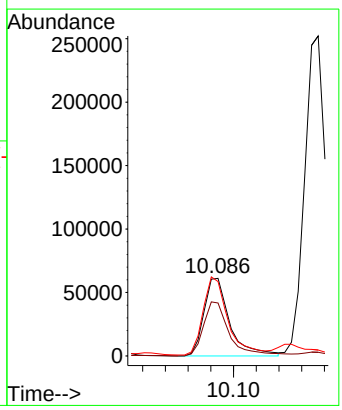


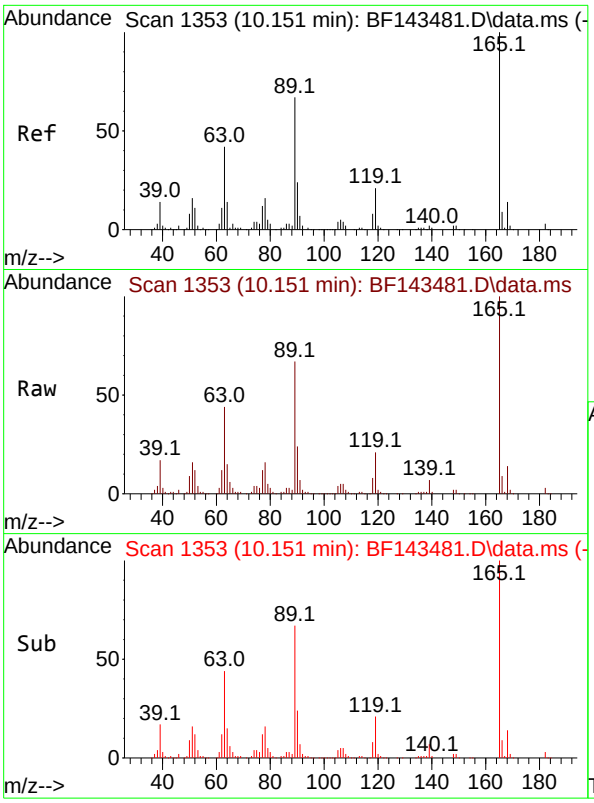


#56
4-Nitrophenol
Concen: 42.699 ng
RT: 10.086 min Scan# 1342
Delta R.T. 0.000 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Tgt Ion:139 Resp: 96926

Ion	Ratio	Lower	Upper
139	100		
109	68.2	48.2	88.2
65	95.8	75.8	115.8



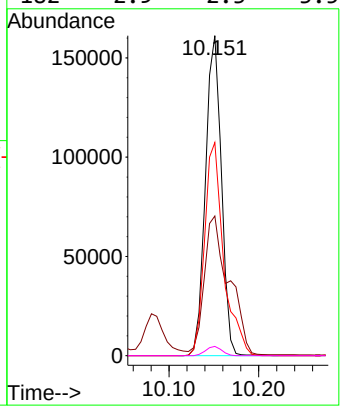


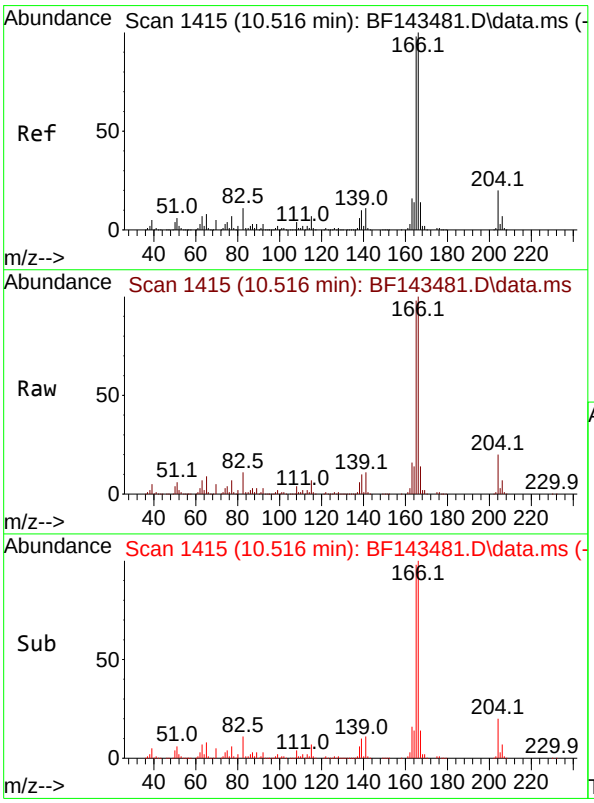
#57
2,4-Dinitrotoluene
Concen: 42.127 ng
RT: 10.151 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:165 Resp: 198600

Ion	Ratio	Lower	Upper
165	100		
63	43.6	34.9	52.3
89	66.6	53.3	79.9
182	2.9	2.3	3.5

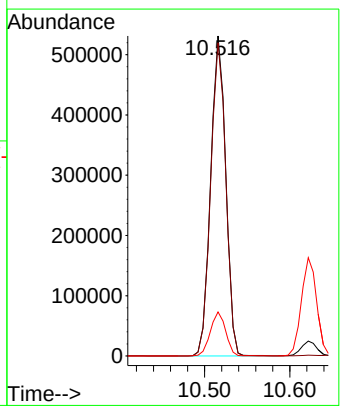


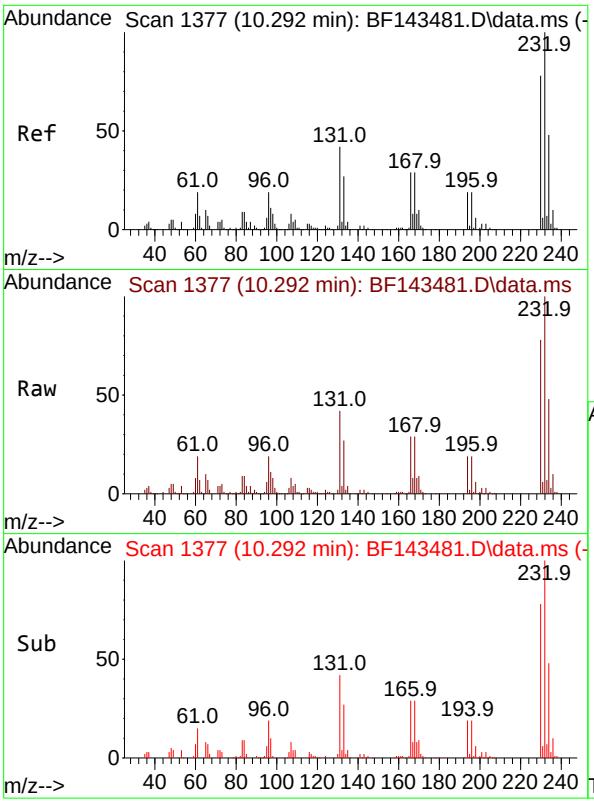


#58
Fluorene
Concen: 38.975 ng
RT: 10.516 min Scan# 1415
Delta R.T. -0.006 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Tgt Ion:166 Resp: 654929

Ion	Ratio	Lower	Upper
166	100		
165	97.9	78.3	117.5
167	13.7	11.0	16.4



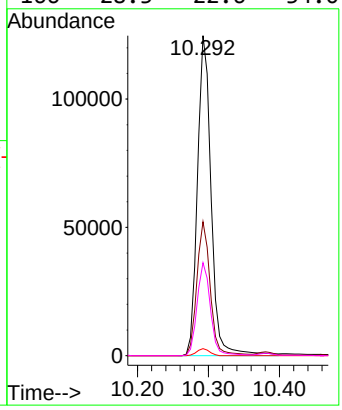


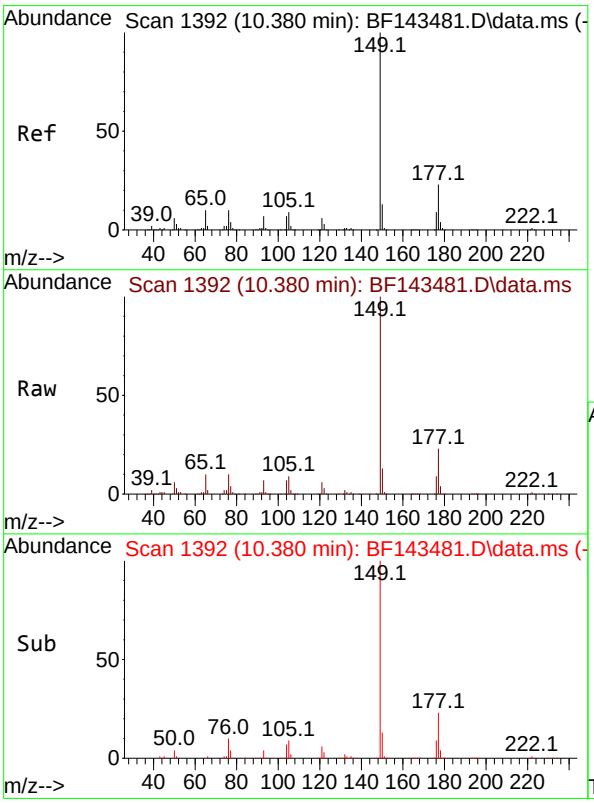
#59
2,3,4,6-Tetrachlorophenol
Concen: 41.542 ng
RT: 10.292 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:232 Resp: 167834

Ion	Ratio	Lower	Upper
232	100		
131	40.9	32.7	49.1
130	2.0	1.6	2.4
166	28.3	22.6	34.0

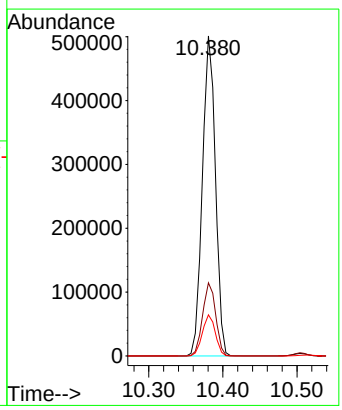


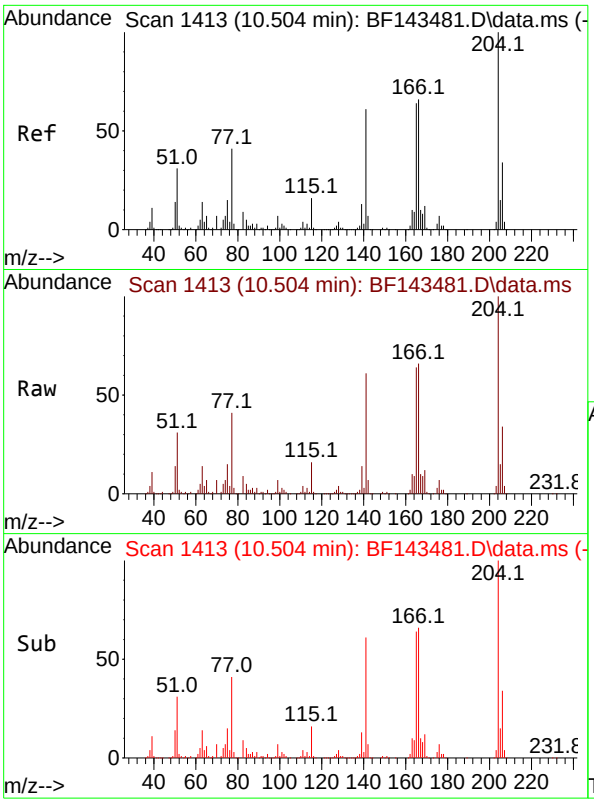


#60
Diethylphthalate
Concen: 40.167 ng
RT: 10.380 min Scan# 1392
Delta R.T. -0.006 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Tgt Ion:149 Resp: 613485

Ion	Ratio	Lower	Upper
149	100		
177	22.9	18.3	27.5
150	12.9	10.3	15.5



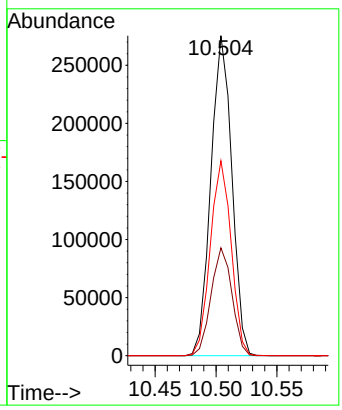


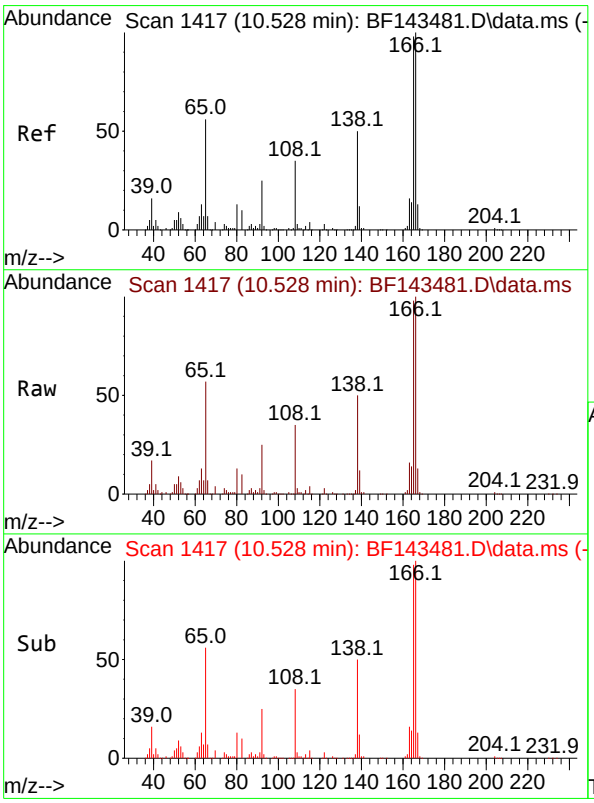
#61
4-Chlorophenyl-phenylether
Concen: 39.350 ng
RT: 10.504 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:204 Resp: 330692

Ion	Ratio	Lower	Upper
204	100		
206	33.7	27.0	40.4
141	60.9	48.7	73.1

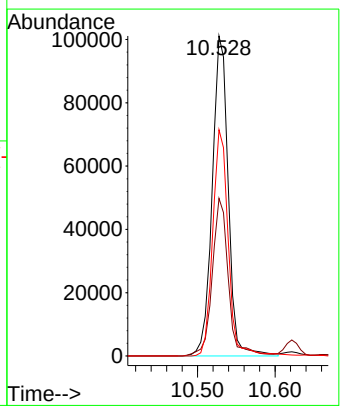


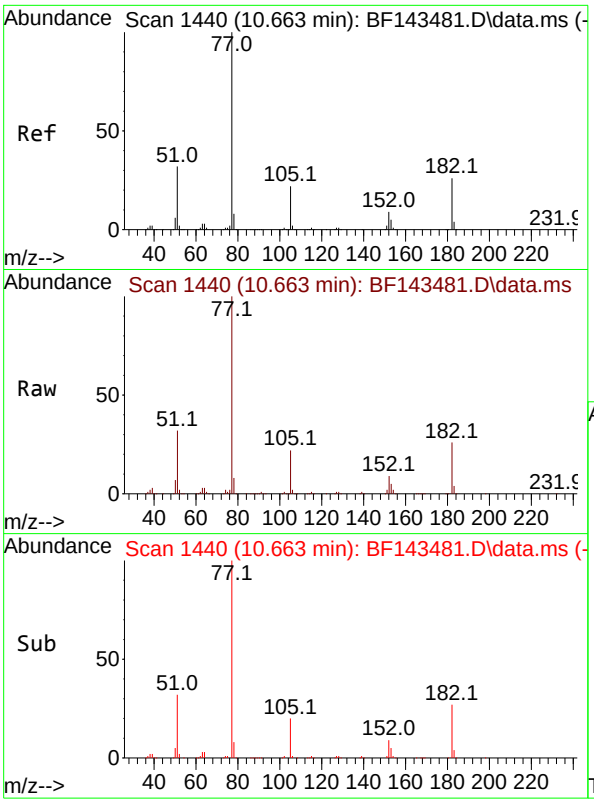


#62
4-Nitroaniline
Concen: 41.412 ng
RT: 10.528 min Scan# 1417
Delta R.T. -0.012 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Tgt Ion:138 Resp: 145120

Ion	Ratio	Lower	Upper
138	100		
92	49.3	29.3	69.3
108	70.7	50.7	90.7



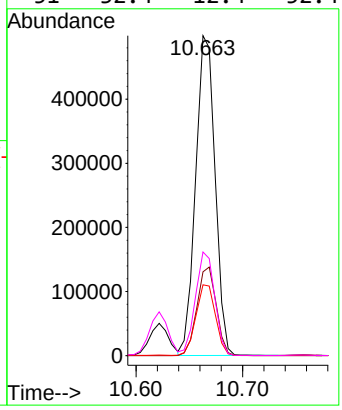


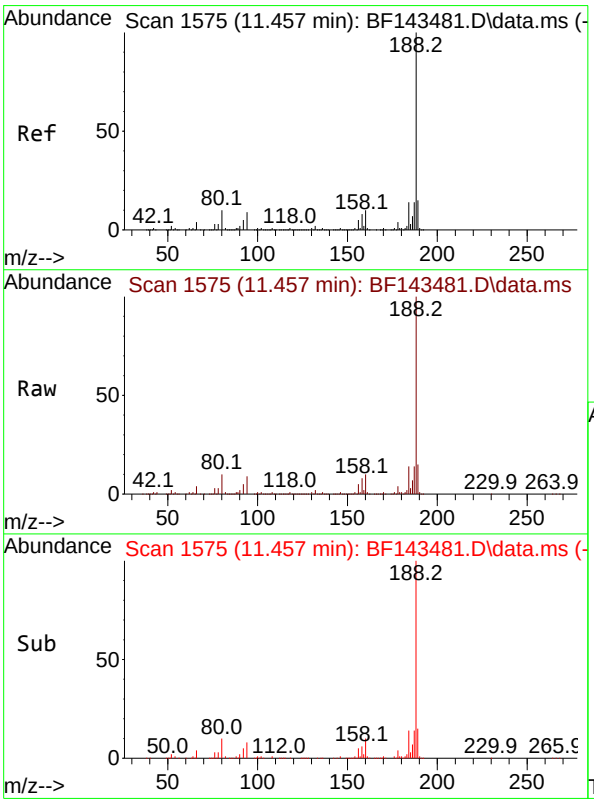
#63
Azobenzene
Concen: 40.076 ng
RT: 10.663 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 77 Resp: 634664

Ion	Ratio	Lower	Upper
77	100		
182	26.2	6.2	46.2
105	22.2	2.2	42.2
51	32.4	12.4	52.4

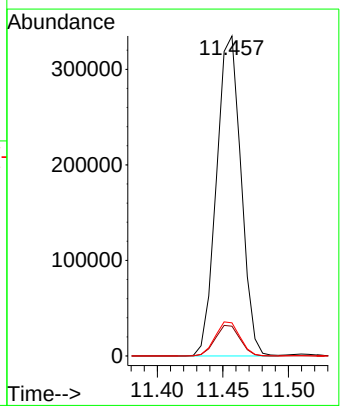


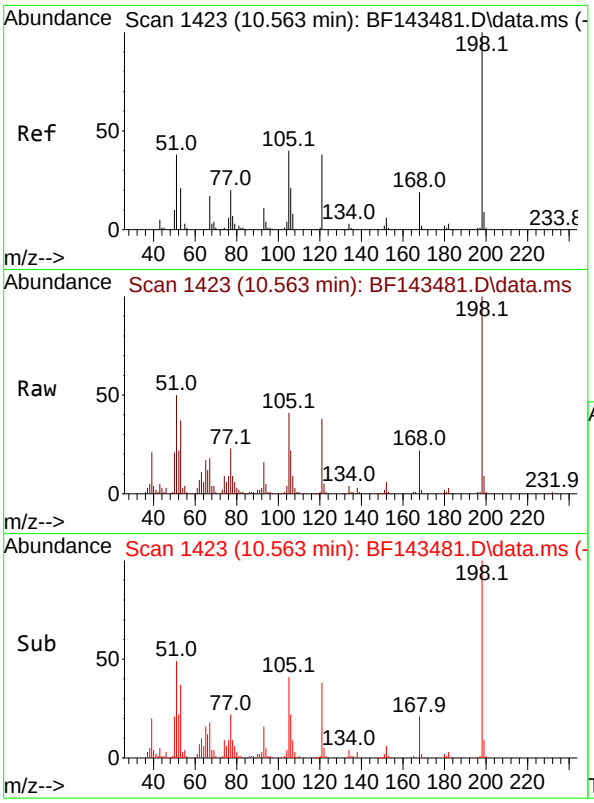


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.457 min Scan# 1575
Delta R.T. -0.000 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Tgt Ion:188 Resp: 436106

Ion	Ratio	Lower	Upper
188	100		
94	9.3	7.4	11.2
80	10.3	8.2	12.4



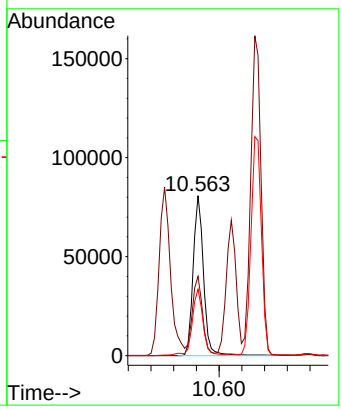


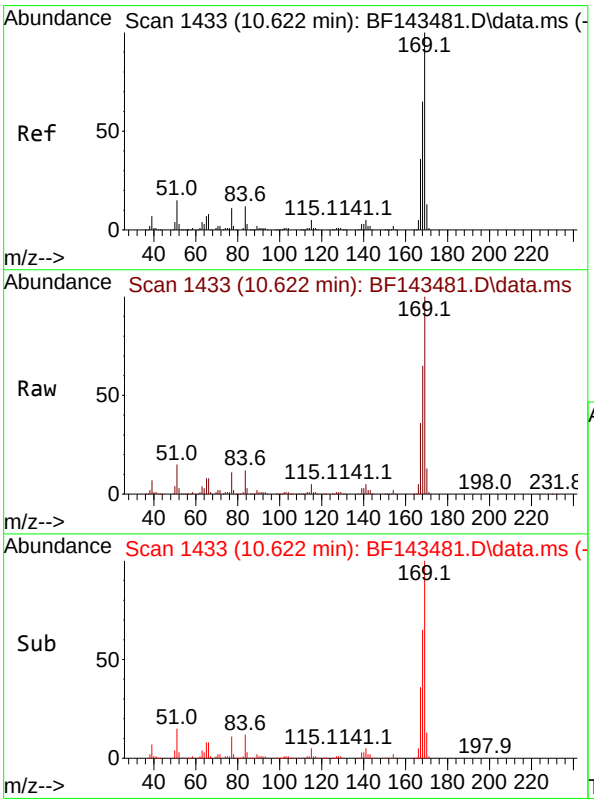
#65
4,6-Dinitro-2-methylphenol
Concen: 42.115 ng
RT: 10.563 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:198 Resp: 103558

Ion	Ratio	Lower	Upper
198	100		
51	49.6	29.6	69.6
105	41.5	21.5	61.5

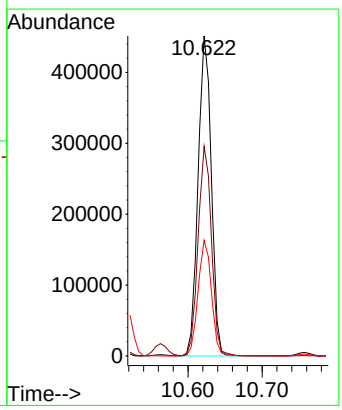


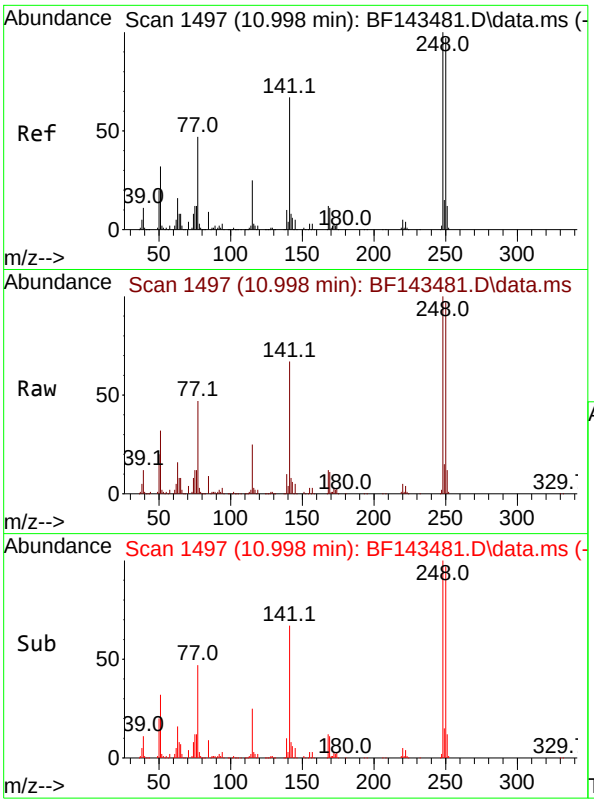


#66
n-Nitrosodiphenylamine
Concen: 39.830 ng
RT: 10.622 min Scan# 1433
Delta R.T. -0.006 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Tgt Ion:169 Resp: 558998

Ion	Ratio	Lower	Upper
169	100		
168	65.5	52.4	78.6
167	36.1	28.9	43.3



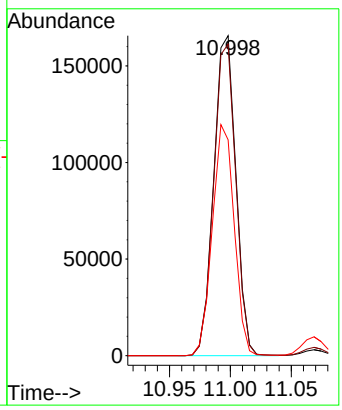


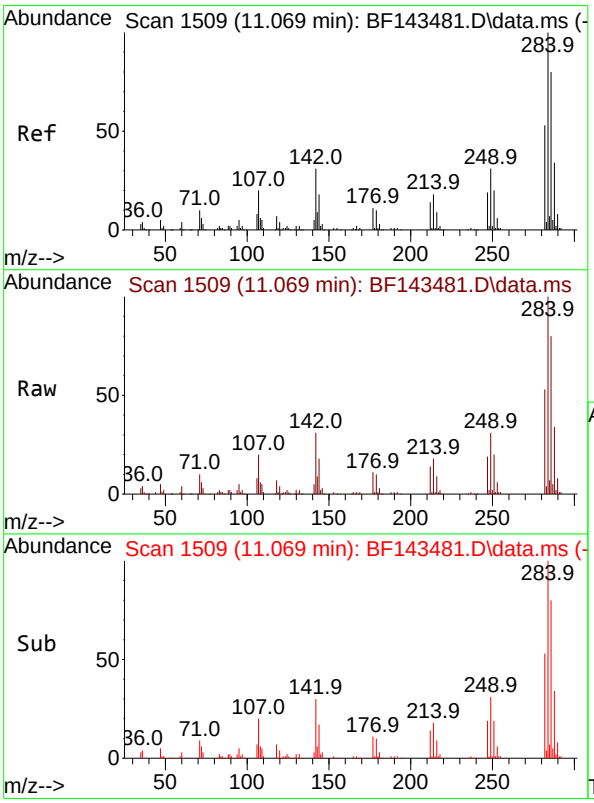
#67
4-Bromophenyl-phenylether
Concen: 40.374 ng
RT: 10.998 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:248 Resp: 210081

Ion	Ratio	Lower	Upper
248	100		
250	97.3	77.8	116.8
141	67.5	54.0	81.0

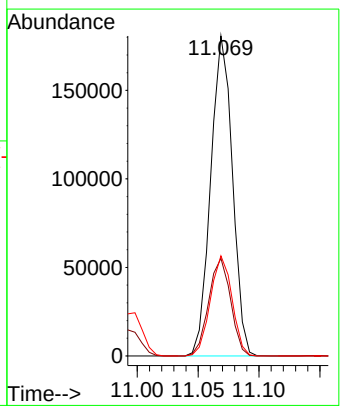


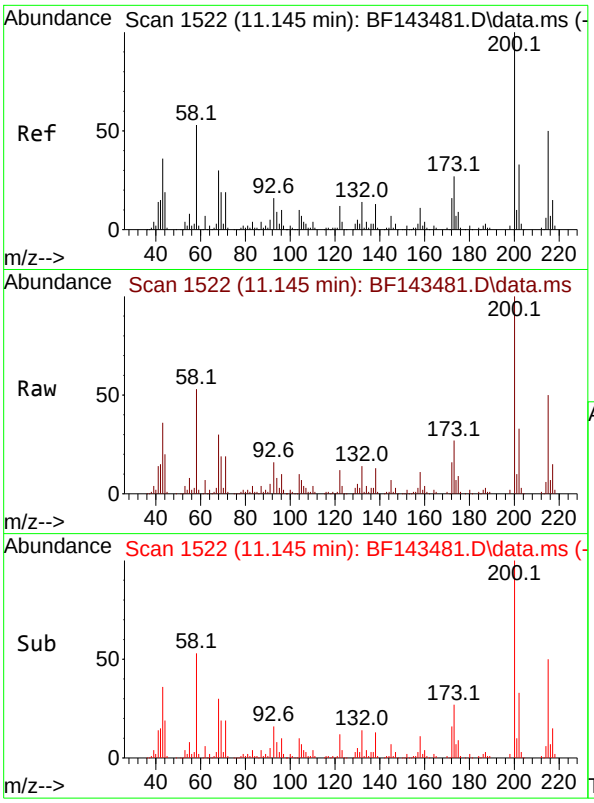


#68
Hexachlorobenzene
Concen: 39.989 ng
RT: 11.069 min Scan# 1509
Delta R.T. -0.006 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Tgt Ion:284 Resp: 224294

Ion	Ratio	Lower	Upper
284	100		
142	30.5	24.4	36.6
249	31.3	25.0	37.6



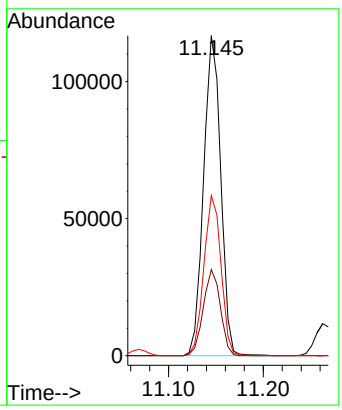


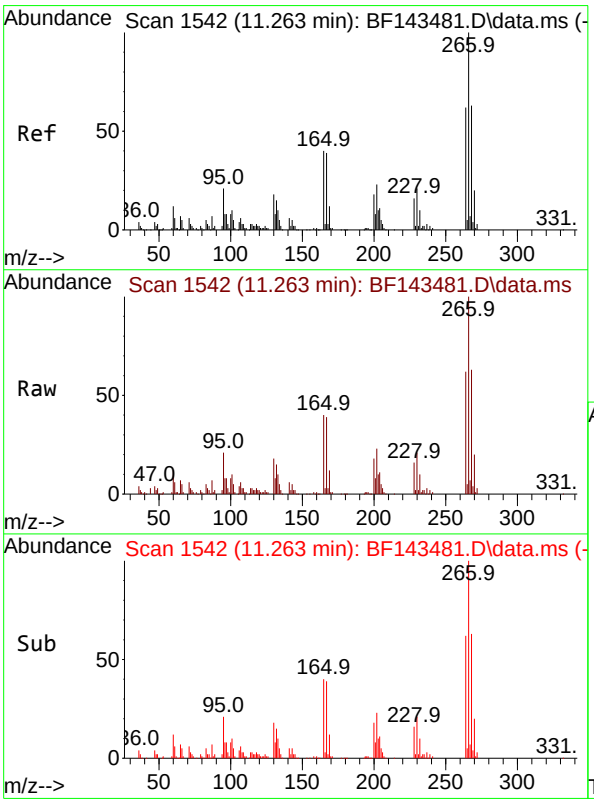
#69
Atrazine
Concen: 40.437 ng
RT: 11.145 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:200 Resp: 146499

Ion	Ratio	Lower	Upper
200	100		
173	26.9	6.9	46.9
215	50.0	30.0	70.0

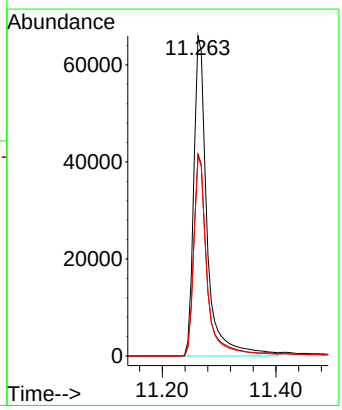


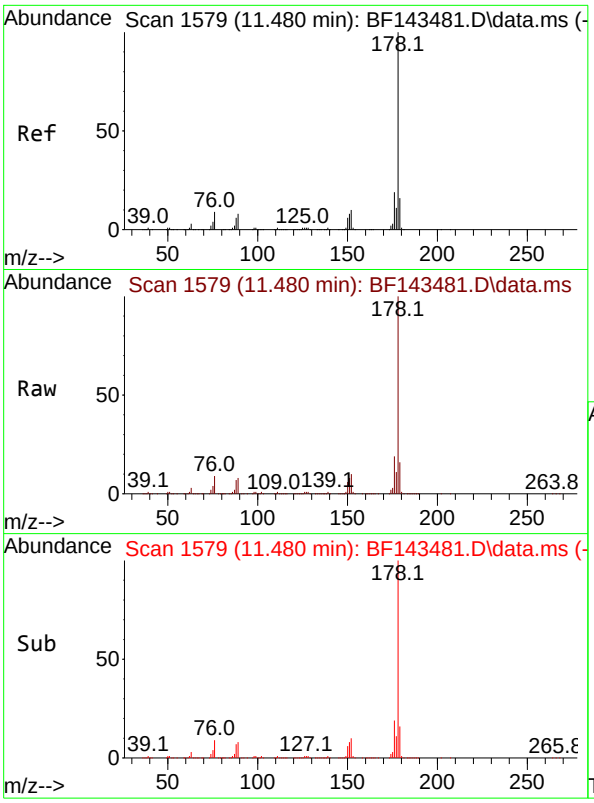


#70
Pentachlorophenol
Concen: 42.121 ng
RT: 11.263 min Scan# 1542
Delta R.T. -0.006 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Tgt Ion:266 Resp: 108200

Ion	Ratio	Lower	Upper
266	100		
268	63.1	50.5	75.7
264	62.3	49.8	74.8



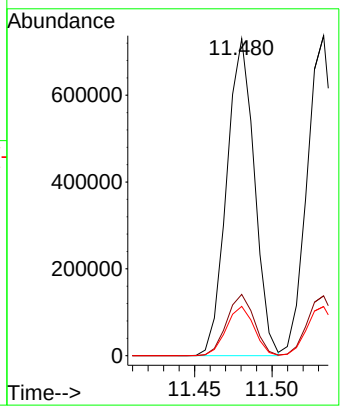


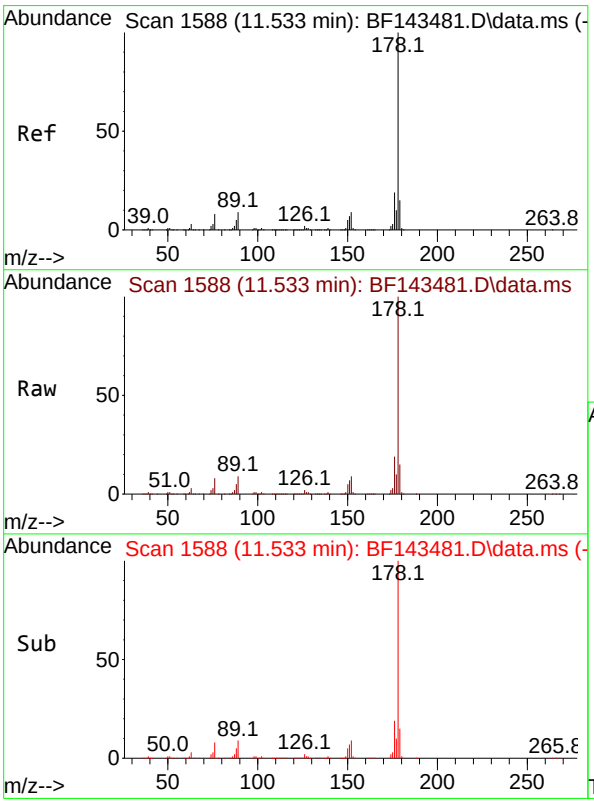
#71
Phenanthrene
Concen: 38.800 ng
RT: 11.480 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:178 Resp: 906136

Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.5	23.3
179	15.6	12.5	18.7

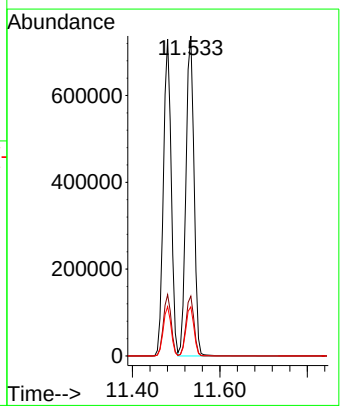


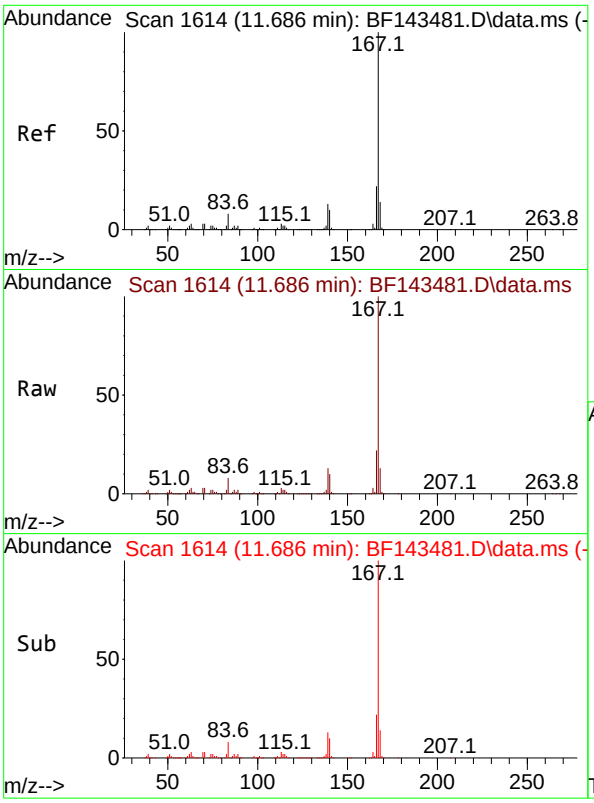


#72
Anthracene
Concen: 39.587 ng
RT: 11.533 min Scan# 1588
Delta R.T. -0.000 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Tgt Ion:178 Resp: 936575

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.0	22.4
179	15.4	12.3	18.5



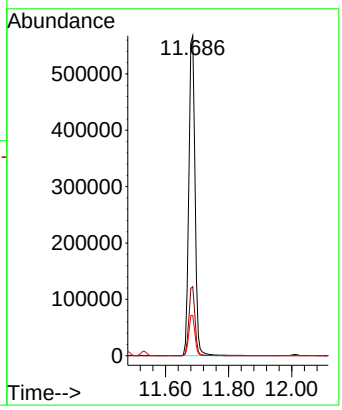


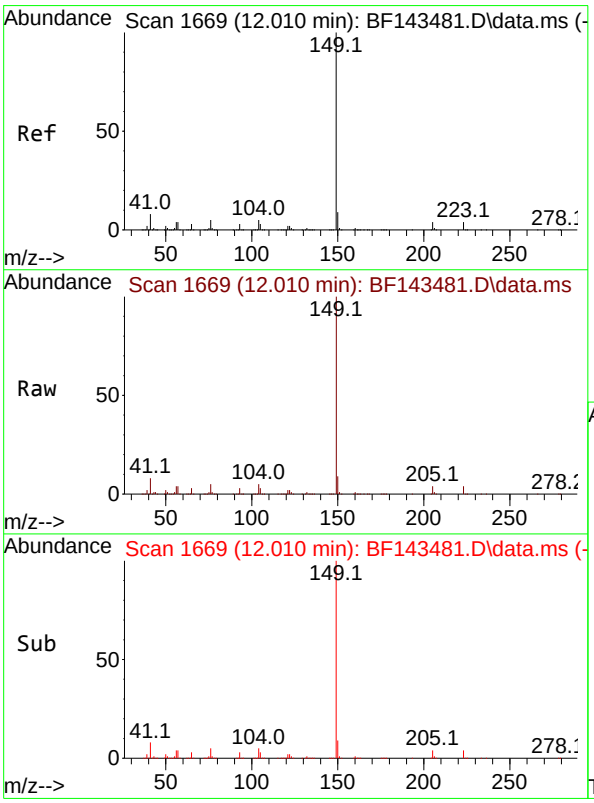
#73
Carbazole
Concen: 39.704 ng
RT: 11.686 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:167 Resp: 769702

Ion	Ratio	Lower	Upper
167	100		
166	21.6	17.3	25.9
139	12.5	10.0	15.0

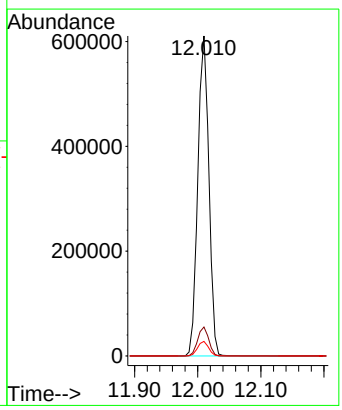


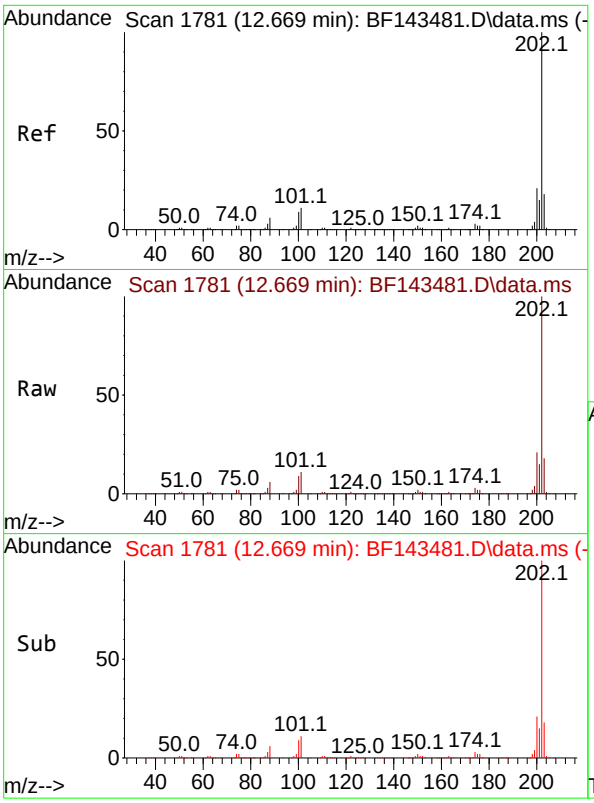


#74
Di-n-butylphthalate
Concen: 40.975 ng
RT: 12.010 min Scan# 1669
Delta R.T. -0.000 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Tgt Ion:149 Resp: 741021

Ion	Ratio	Lower	Upper
149	100		
150	9.0	7.2	10.8
104	4.5	3.6	5.4



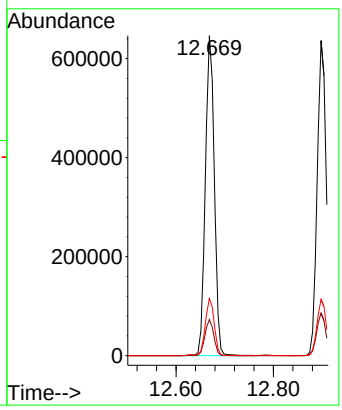


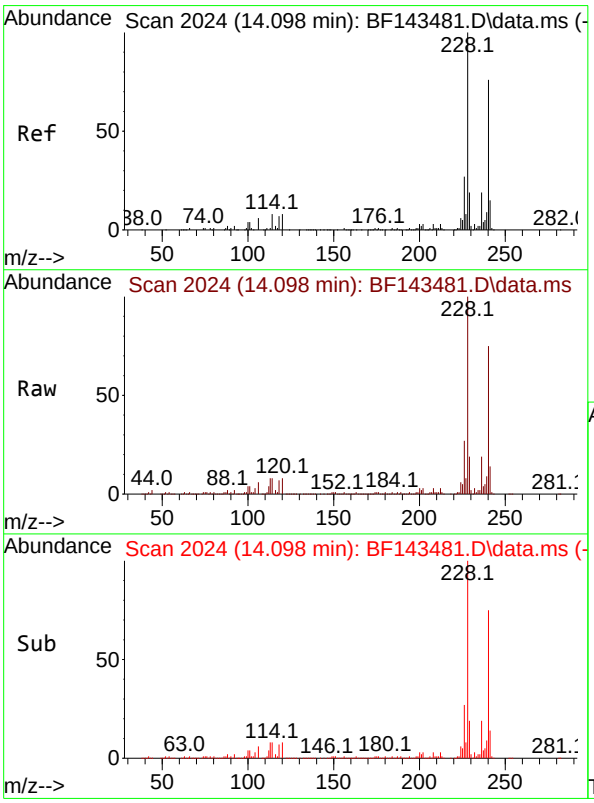
#75
Fluoranthene
Concen: 39.378 ng
RT: 12.669 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:202 Resp: 825200

Ion	Ratio	Lower	Upper
202	100		
101	11.3	0.0	31.3
203	17.9	0.0	37.9

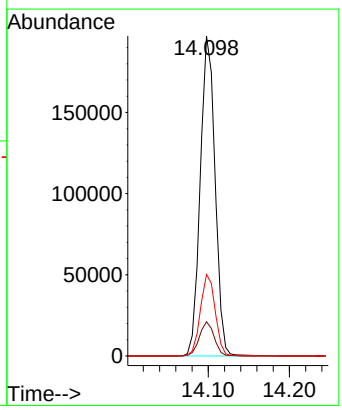


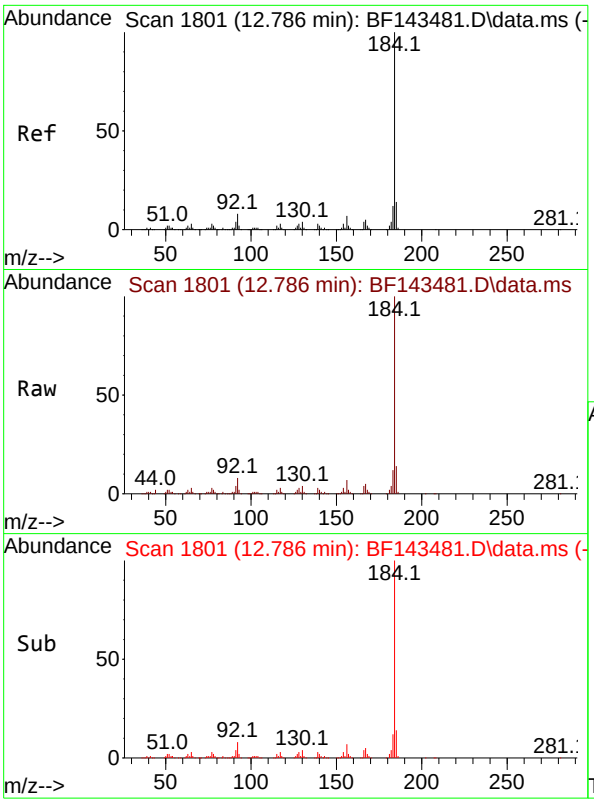


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.098 min Scan# 2024
Delta R.T. -0.006 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Tgt Ion:240 Resp: 249960

Ion	Ratio	Lower	Upper
240	100		
120	10.7	8.6	12.8
236	25.5	20.4	30.6



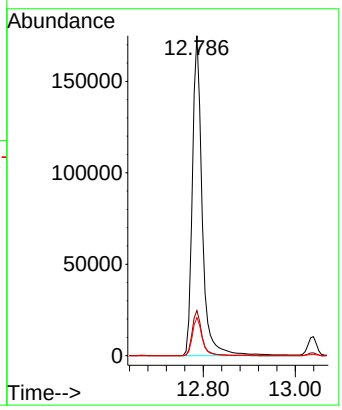


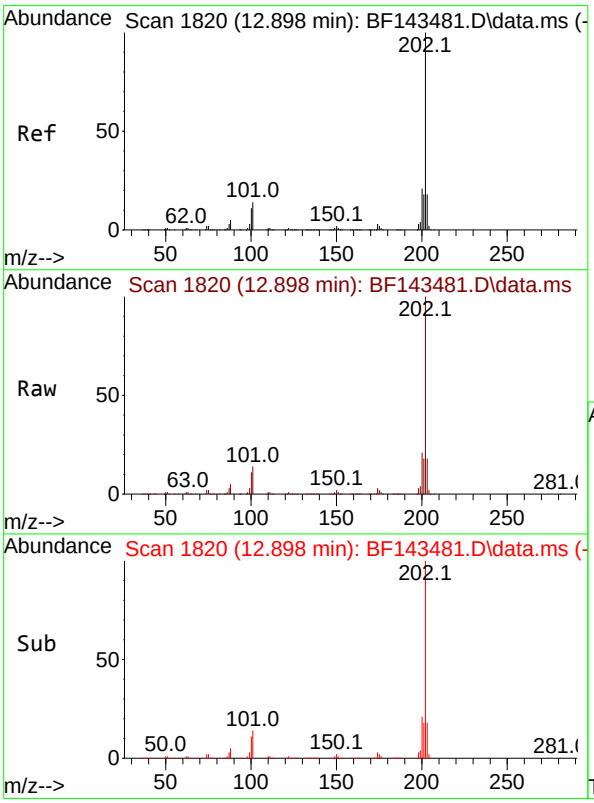
#77
Benzidine
Concen: 42.403 ng
RT: 12.786 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:184 Resp: 258175

Ion	Ratio	Lower	Upper
184	100		
185	14.1	11.3	16.9
183	11.9	9.5	14.3

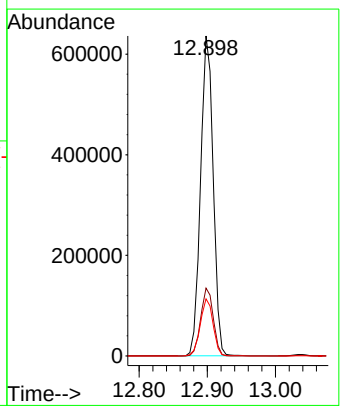


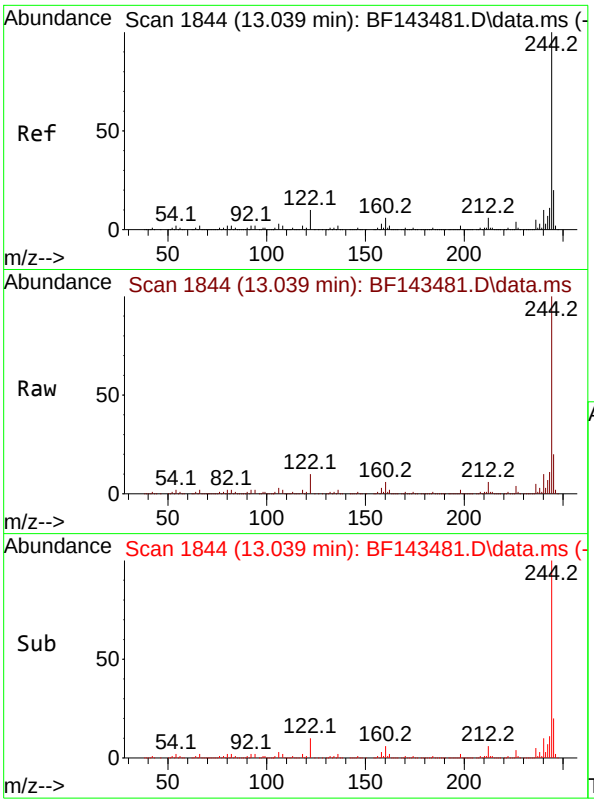


#78
Pyrene
Concen: 39.759 ng
RT: 12.898 min Scan# 1820
Delta R.T. -0.006 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Tgt Ion:202 Resp: 817477

Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.0	25.4
203	17.9	14.3	21.5



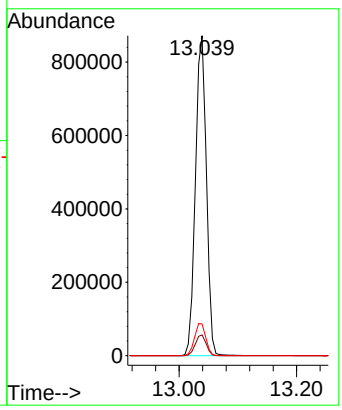


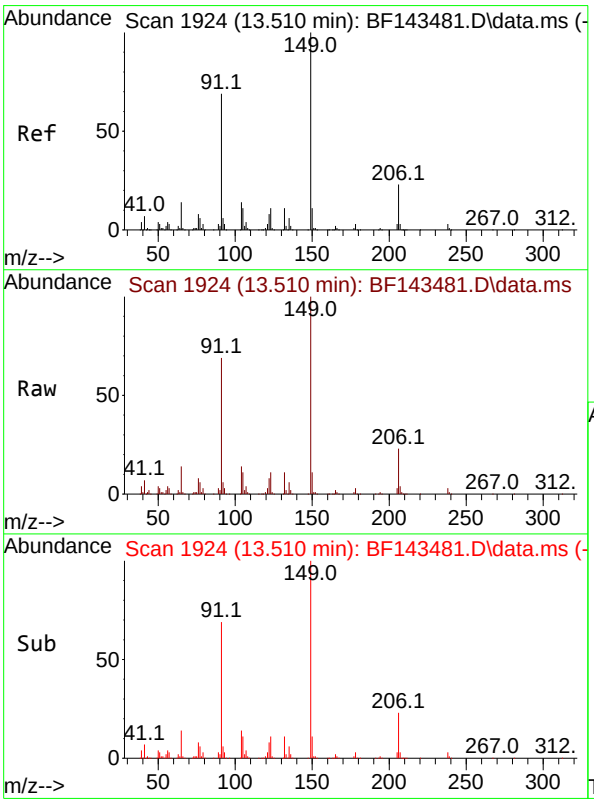
#79
Terphenyl-d14
Concen: 78.865 ng
RT: 13.039 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:244 Resp: 1129659

Ion	Ratio	Lower	Upper
244	100		
212	6.5	5.2	7.8
122	9.9	7.9	11.9

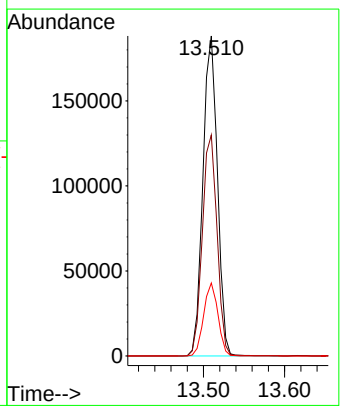


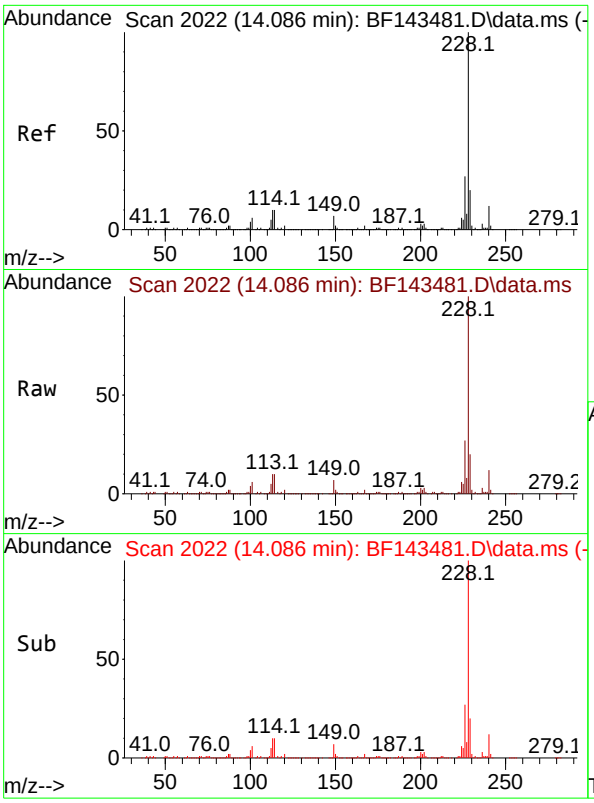


#80
Butylbenzylphthalate
Concen: 41.552 ng
RT: 13.510 min Scan# 1924
Delta R.T. -0.000 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Tgt Ion:149 Resp: 233397

Ion	Ratio	Lower	Upper
149	100		
91	69.1	55.3	82.9
206	22.8	18.2	27.4



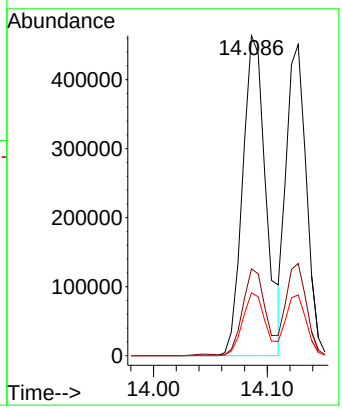


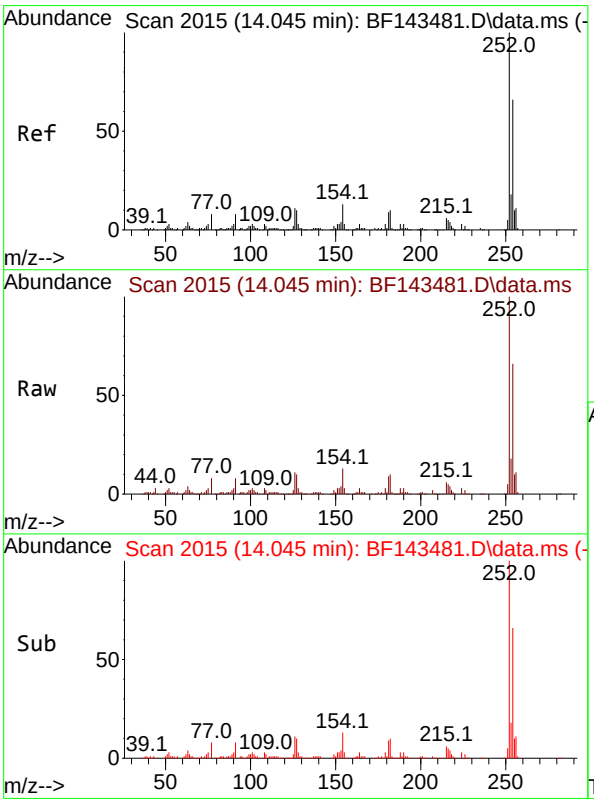
#81
Benzo(a)anthracene
Concen: 40.938 ng
RT: 14.086 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:228 Resp: 658804

Ion	Ratio	Lower	Upper
228	100		
226	27.1	21.7	32.5
229	19.6	15.7	23.5

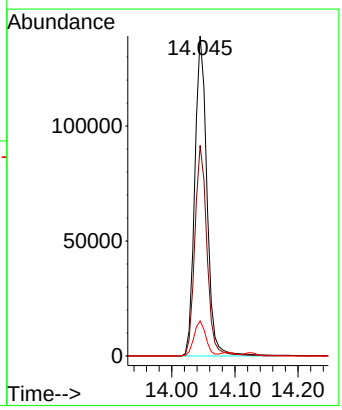


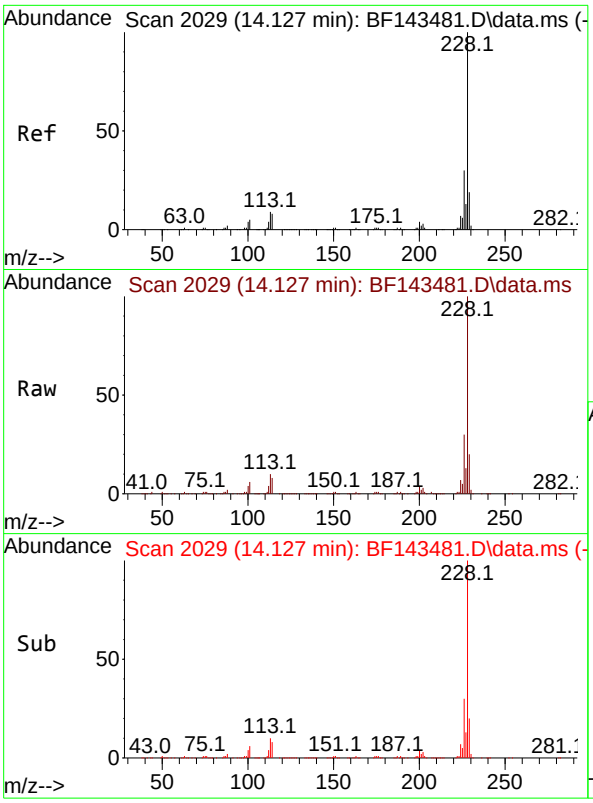


#82
3,3'-Dichlorobenzidine
Concen: 40.425 ng
RT: 14.045 min Scan# 2015
Delta R.T. -0.000 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Tgt Ion:252 Resp: 186301

Ion	Ratio	Lower	Upper
252	100		
254	65.8	52.6	79.0
126	10.9	8.7	13.1



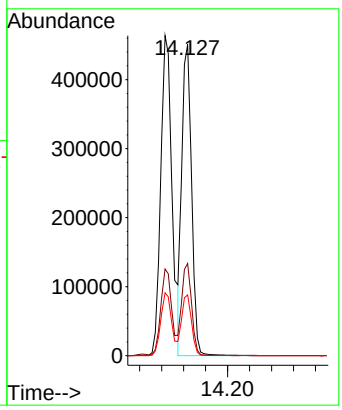


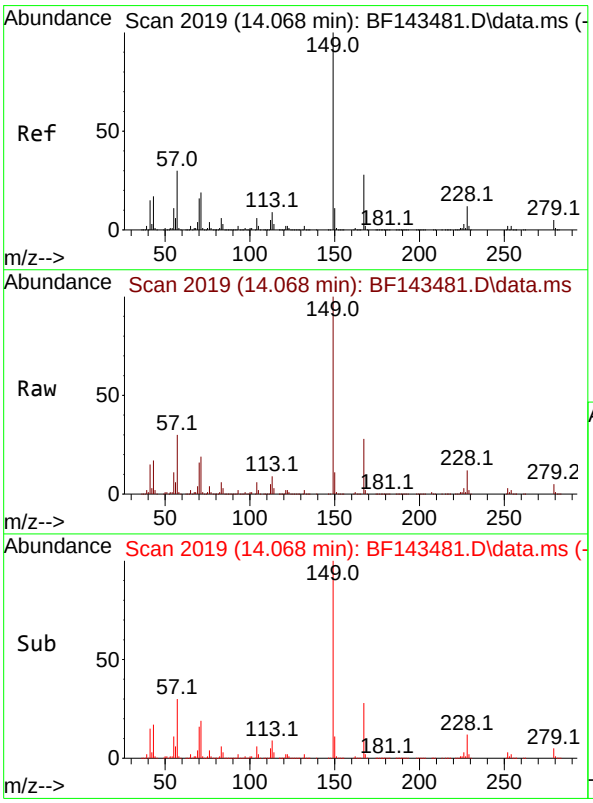
#83
Chrysene
Concen: 38.482 ng
RT: 14.127 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:228 Resp: 556527

Ion	Ratio	Lower	Upper
228	100		
226	29.6	23.7	35.5
229	19.6	15.7	23.5

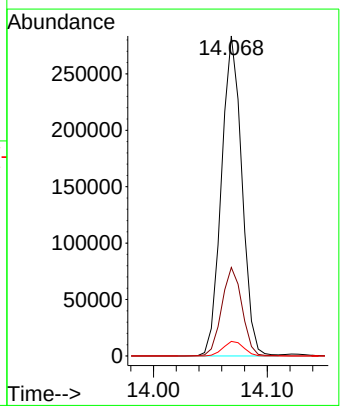


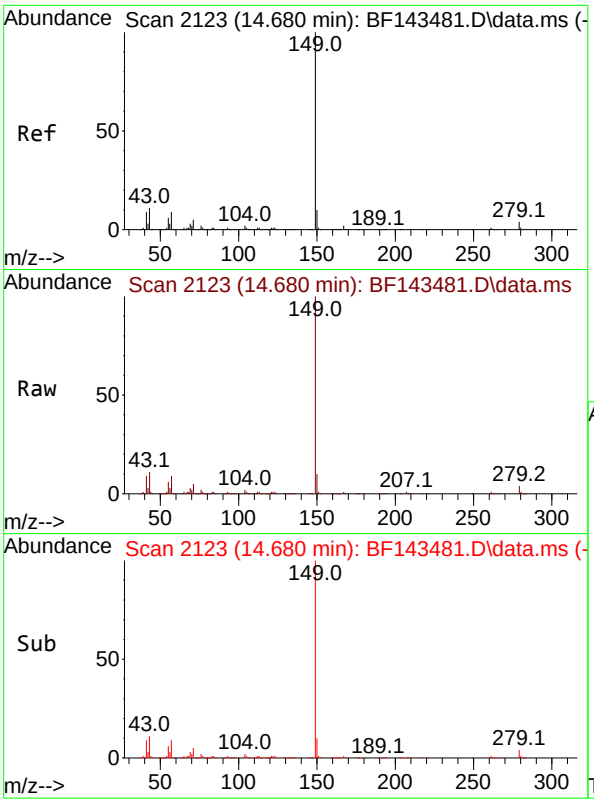


#84
Bis(2-ethylhexyl)phthalate
Concen: 41.471 ng
RT: 14.068 min Scan# 2019
Delta R.T. -0.000 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Tgt Ion:149 Resp: 354779

Ion	Ratio	Lower	Upper
149	100		
167	27.7	22.2	33.2
279	4.5	3.6	5.4



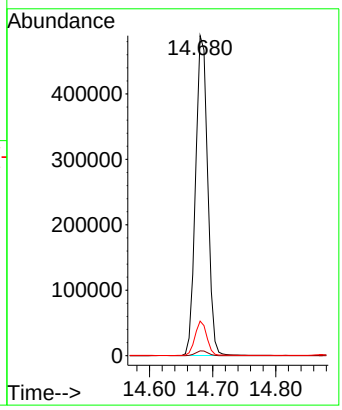


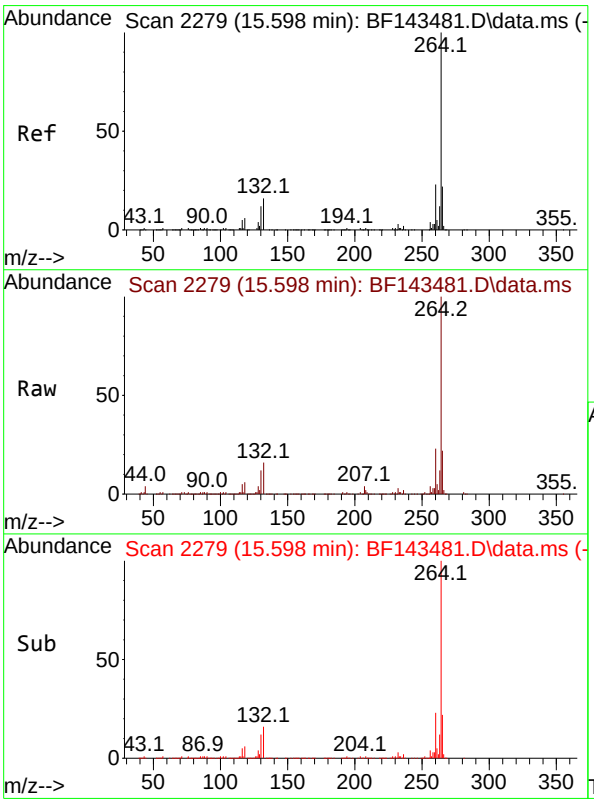
#85
Di-n-octyl phthalate
Concen: 40.959 ng
RT: 14.680 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:149 Resp: 649137

Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.2	1.8
43	10.6	8.5	12.7

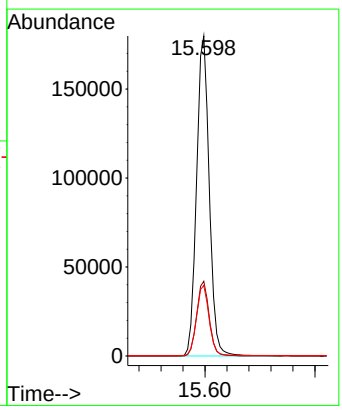


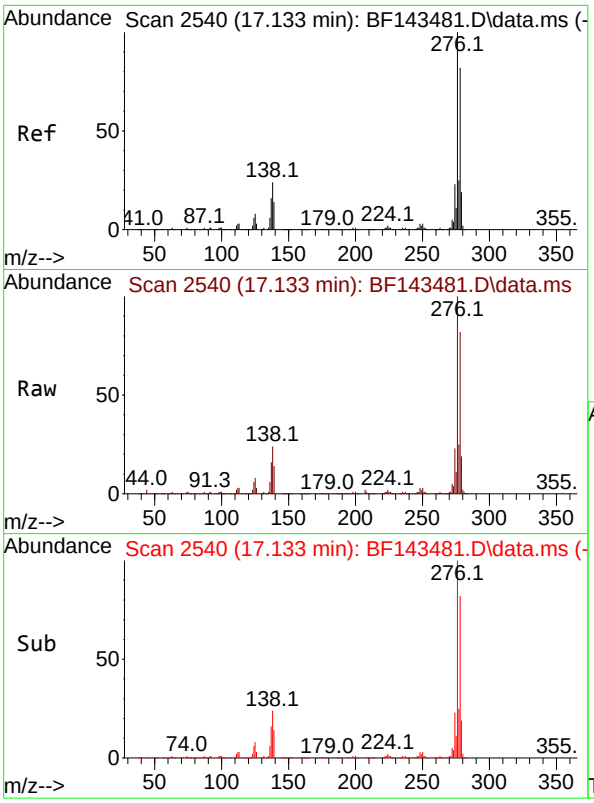


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.598 min Scan# 2279
Delta R.T. -0.000 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Tgt Ion:264 Resp: 288139

Ion	Ratio	Lower	Upper
264	100		
260	23.4	18.7	28.1
265	22.0	17.6	26.4



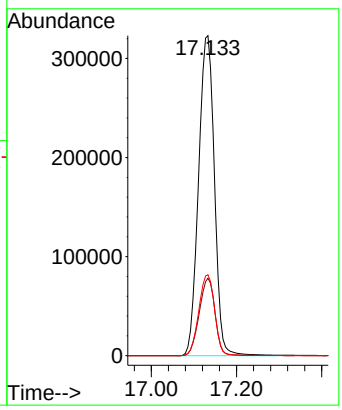


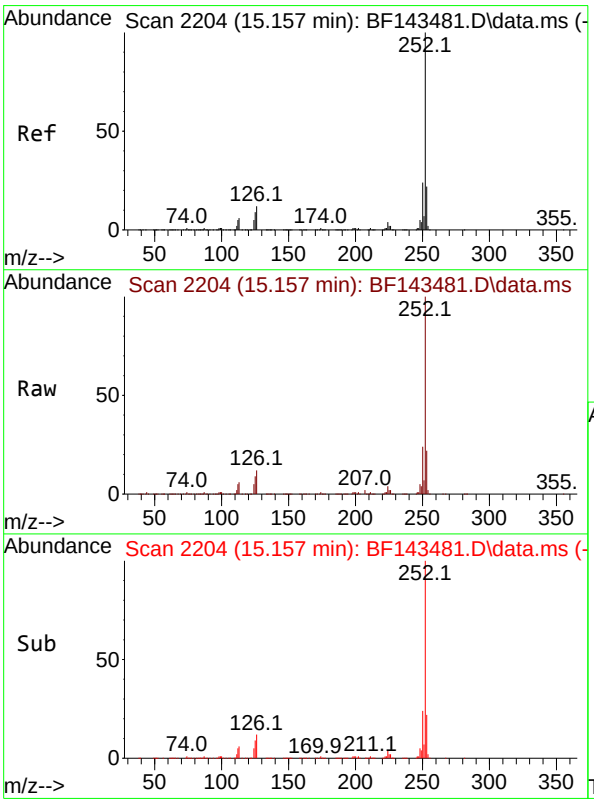
#87
Indeno(1,2,3-cd)pyrene
Concen: 40.334 ng
RT: 17.133 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:276 Resp: 835150

Ion	Ratio	Lower	Upper
276	100		
138	24.0	19.2	28.8
277	25.4	20.3	30.5

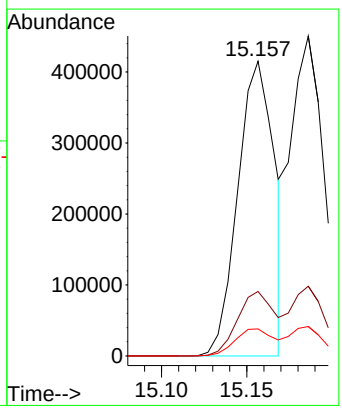


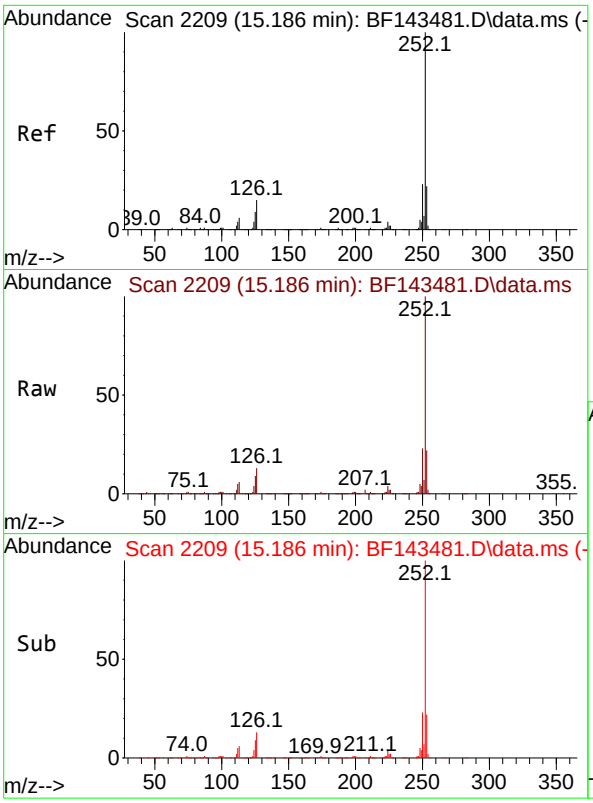


#88
Benzo(b)fluoranthene
Concen: 38.627 ng
RT: 15.157 min Scan# 2204
Delta R.T. -0.000 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Tgt Ion:252 Resp: 618677

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.5	26.3
125	9.2	7.4	11.0



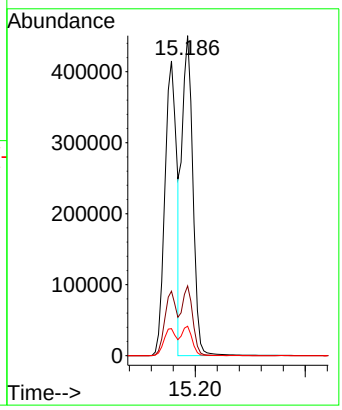


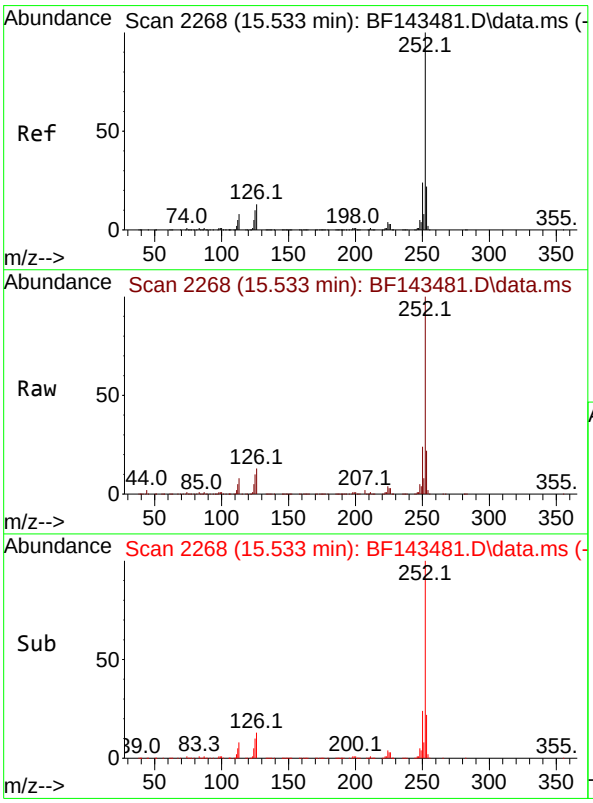
#89
Benzo(k)fluoranthene
Concen: 40.628 ng
RT: 15.186 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:252 Resp: 623043

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.4	26.2
125	9.2	7.4	11.0

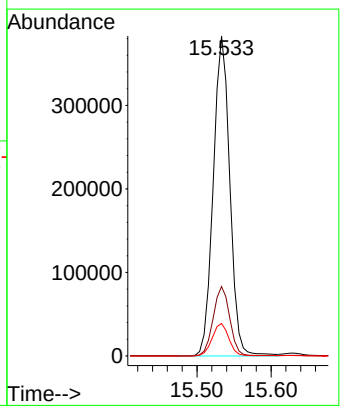


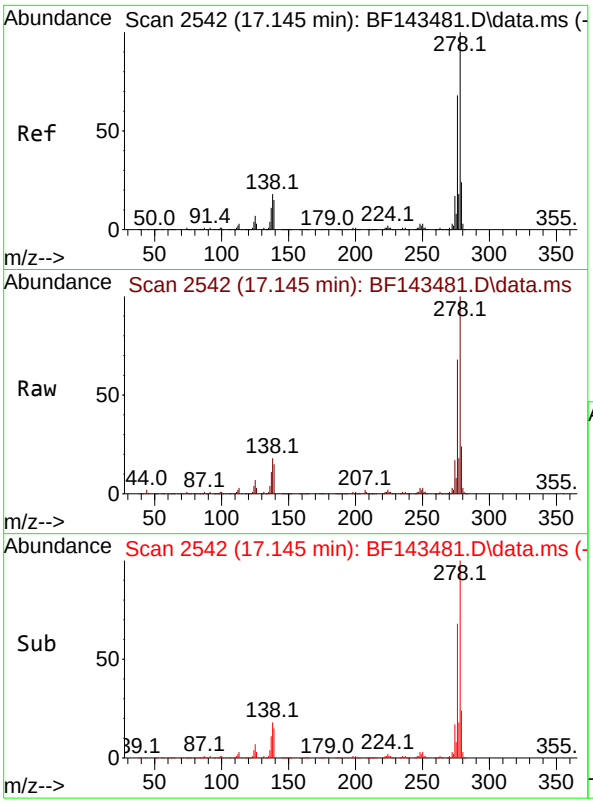


#90
Benzo(a)pyrene
Concen: 39.996 ng
RT: 15.533 min Scan# 2268
Delta R.T. -0.006 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Tgt Ion:252 Resp: 594623

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.4	26.0
125	10.2	8.2	12.2



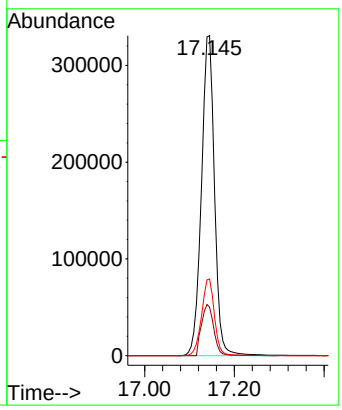


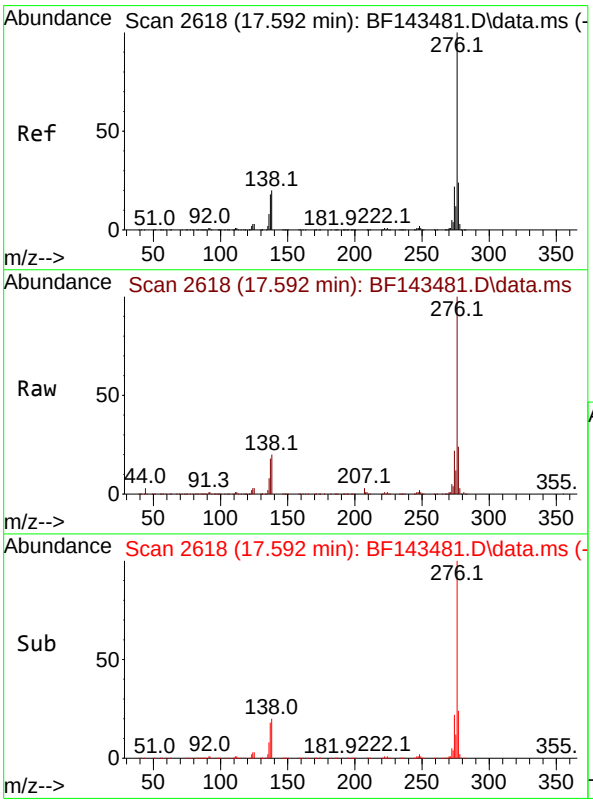
#91
Dibenzo(a,h)anthracene
Concen: 40.370 ng
RT: 17.145 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:278 Resp: 669452

Ion	Ratio	Lower	Upper
278	100		
139	15.1	12.1	18.1
279	24.0	19.2	28.8

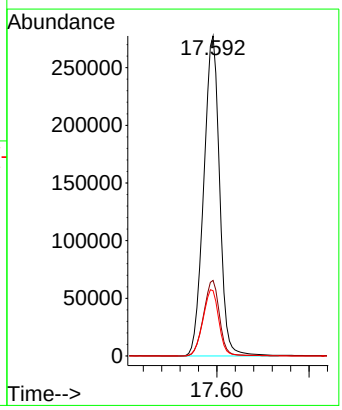




#92
Benzo(g,h,i)perylene
Concen: 40.417 ng
RT: 17.592 min Scan# 2618
Delta R.T. -0.012 min
Lab File: BF143481.D
Acq: 20 Aug 2025 12:53

Tgt Ion:276 Resp: 666442

Ion	Ratio	Lower	Upper
276	100		
277	23.6	18.9	28.3
138	20.4	16.3	24.5



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Acq On : 20 Aug 2025 13:22
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Quant Time: Aug 20 16:23:34 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 20 15:07:46 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.928	152	136821	20.000	ng		0.00
21) Naphthalene-d8	8.210	136	508977	20.000	ng		0.00
39) Acenaphthene-d10	9.969	164	274766	20.000	ng		0.00
64) Phenanthrene-d10	11.457	188	422398	20.000	ng		0.00
76) Chrysene-d12	14.098	240	244315	20.000	ng		0.00
86) Perylene-d12	15.598	264	288719	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.563	112	743545	94.894	ng		0.00
7) Phenol-d6	6.569	99	917735	94.880	ng		0.00
23) Nitrobenzene-d5	7.492	82	851921	97.674	ng		0.00
42) 2,4,6-Tribromophenol	10.757	330	248877	97.306	ng		0.00
45) 2-Fluorobiphenyl	9.286	172	1518897	91.359	ng		0.00
79) Terphenyl-d14	13.039	244	1336561	95.465	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.740	88	177472	48.893	ng		99
3) Pyridine	3.516	79	475201	49.153	ng		99
4) n-Nitrosodimethylamine	3.463	42	216544	49.825	ng		98
6) Aniline	6.592	93	615592	47.614	ng		93
8) 2-Chlorophenol	6.722	128	420515	48.589	ng		98
9) Benzaldehyde	6.481	77	387617	49.497	ng		99
10) Phenol	6.581	94	531465	47.696	ng		98
11) bis(2-Chloroethyl)ether	6.663	93	400326	48.077	ng		98
12) 1,3-Dichlorobenzene	6.869	146	460100	47.316	ng		99
13) 1,4-Dichlorobenzene	6.945	146	463354	47.503	ng		99
14) 1,2-Dichlorobenzene	7.098	146	440736	47.724	ng		100
15) Benzyl Alcohol	7.069	79	355789	49.130	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.198	45	617519	46.354	ng		95
17) 2-Methylphenol	7.187	107	333608	48.029	ng		98
18) Hexachloroethane	7.439	117	157972	47.633	ng		97
19) n-Nitroso-di-n-propyla...	7.339	70	273528	46.266	ng		98
20) 3+4-Methylphenols	7.339	107	391106	47.167	ng		96
22) Acetophenone	7.339	105	511600	46.526	ng	#	99
24) Nitrobenzene	7.510	77	443345	49.387	ng		100
25) Isophorone	7.751	82	773853	48.401	ng		99
26) 2-Nitrophenol	7.828	139	222383	50.572	ng		100
27) 2,4-Dimethylphenol	7.863	122	333188	48.606	ng		98
28) bis(2-Chloroethoxy)met...	7.957	93	472331	48.070	ng		99
29) 2,4-Dichlorophenol	8.075	162	358054	48.908	ng		100
30) 1,2,4-Trichlorobenzene	8.151	180	358839	47.673	ng		99
31) Naphthalene	8.234	128	1154068	47.228	ng		100
32) Benzoic acid	7.992	122	194231	49.619	ng		97
33) 4-Chloroaniline	8.281	127	421648	48.617	ng		99
34) Hexachlorobutadiene	8.351	225	236186	48.095	ng		100
35) Caprolactam	8.657	113	90192	51.340	ng		98
36) 4-Chloro-3-methylphenol	8.763	107	355809	48.497	ng		99
37) 2-Methylnaphthalene	8.922	142	763368	46.774	ng		100
38) 1-Methylnaphthalene	9.022	142	734490	47.049	ng		100
40) 1,2,4,5-Tetrachloroben...	9.092	216	373639	47.541	ng		100
41) Hexachlorocyclopentadiene	9.081	237	141023	48.905	ng		99
43) 2,4,6-Trichlorophenol	9.204	196	241322	49.900	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082025\
Data File : BF143482.D
Acq On : 20 Aug 2025 13:22
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Quant Time: Aug 20 16:23:34 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 20 15:07:46 2025
Response via : Initial Calibration

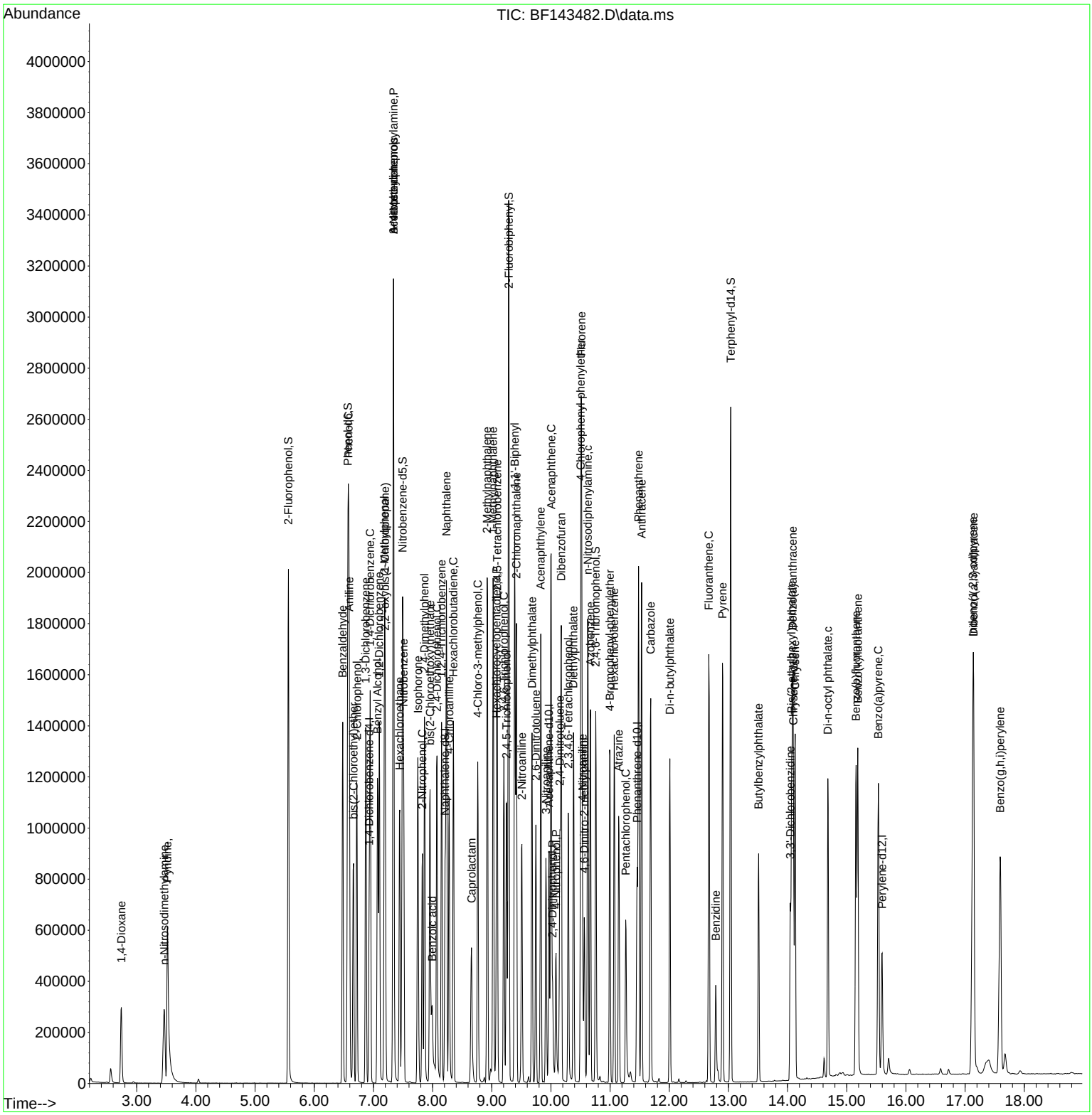
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.251	196	259061	49.041	ng	98
46) 1,1'-Biphenyl	9.386	154	917350	47.038	ng	100
47) 2-Chloronaphthalene	9.416	162	725620	47.420	ng	99
48) 2-Nitroaniline	9.510	65	226106	50.489	ng	94
49) Acenaphthylene	9.828	152	1041531	47.536	ng	100
50) Dimethylphthalate	9.681	163	795814	48.090	ng	100
51) 2,6-Dinitrotoluene	9.745	165	178703	52.104	ng	100
52) Acenaphthene	10.004	154	712642	47.905	ng	100
53) 3-Nitroaniline	9.916	138	187598	50.620	ng	99
54) 2,4-Dinitrophenol	10.028	184	90529	51.384	ng	100
55) Dibenzofuran	10.175	168	1003468	47.313	ng	100
56) 4-Nitrophenol	10.086	139	121261	54.991	ng	98
57) 2,4-Dinitrotoluene	10.151	165	236039	51.542	ng	99
58) Fluorene	10.516	166	763347	46.763	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.292	232	202049	51.483	ng	99
60) Diethylphthalate	10.380	149	723386	48.756	ng	100
61) 4-Chlorophenyl-phenyle...	10.504	204	383570	46.985	ng	100
62) 4-Nitroaniline	10.533	138	175033	51.418	ng	99
63) Azobenzene	10.669	77	742238	48.247	ng	98
65) 4,6-Dinitro-2-methylph...	10.563	198	126533	53.128	ng	98
66) n-Nitrosodiphenylamine	10.622	169	649619	47.789	ng	99
67) 4-Bromophenyl-phenylether	10.998	248	242477	48.112	ng	99
68) Hexachlorobenzene	11.069	284	261883	48.206	ng	98
69) Atrazine	11.145	200	180342	51.394	ng	99
70) Pentachlorophenol	11.263	266	133776	53.767	ng	100
71) Phenanthrene	11.480	178	1071808	47.383	ng	100
72) Anthracene	11.533	178	1079686	47.117	ng	100
73) Carbazole	11.686	167	896352	47.738	ng	99
74) Di-n-butylphthalate	12.010	149	879812	50.228	ng	99
75) Fluoranthene	12.669	202	964831	47.536	ng	99
77) Benzidine	12.786	184	238772	40.122	ng	100
78) Pyrene	12.898	202	970991	48.316	ng	100
80) Butylbenzylphthalate	13.510	149	281664	51.304	ng	99
81) Benzo(a)anthracene	14.086	228	773434	49.172	ng	99
82) 3,3'-Dichlorobenzidine	14.045	252	216024	47.957	ng	98
83) Chrysene	14.127	228	665070	47.050	ng	99
84) Bis(2-ethylhexyl)phtha...	14.068	149	421199	50.372	ng	100
85) Di-n-octyl phthalate	14.680	149	764123	49.329	ng	100
87) Indeno(1,2,3-cd)pyrene	17.133	276	1030025	49.646	ng	100
88) Benzo(b)fluoranthene	15.157	252	763584	47.579	ng	100
89) Benzo(k)fluoranthene	15.186	252	746332	48.570	ng	100
90) Benzo(a)pyrene	15.533	252	728853	48.927	ng	100
91) Dibenzo(a,h)anthracene	17.145	278	824368	49.612	ng	100
92) Benzo(g,h,i)perylene	17.592	276	826803	50.042	ng	99

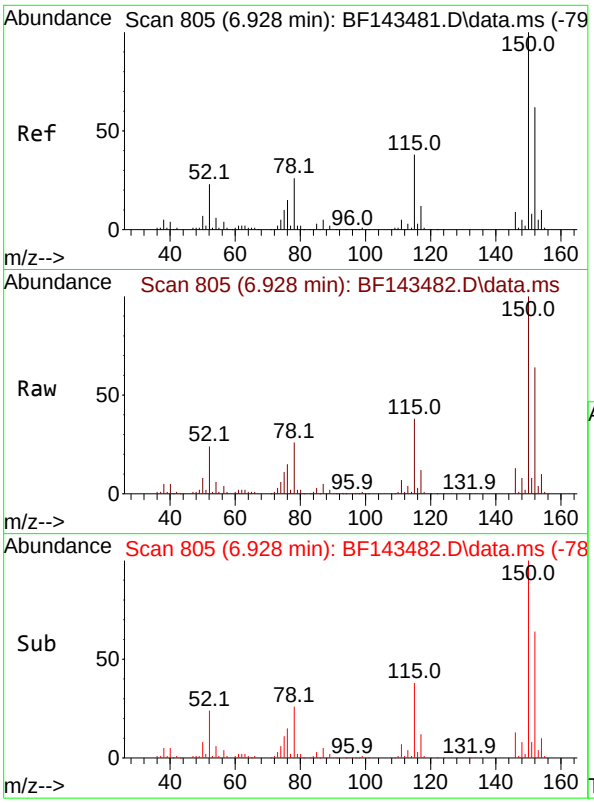
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082025\
Data File : BF143482.D
Acq On : 20 Aug 2025 13:22
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Quant Time: Aug 20 16:23:34 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 20 15:07:46 2025
Response via : Initial Calibration



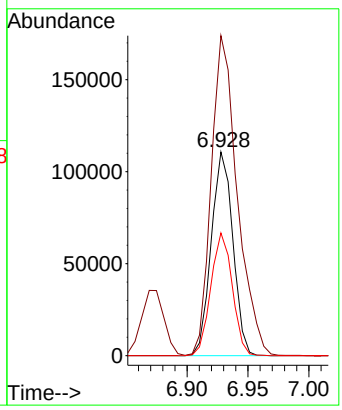


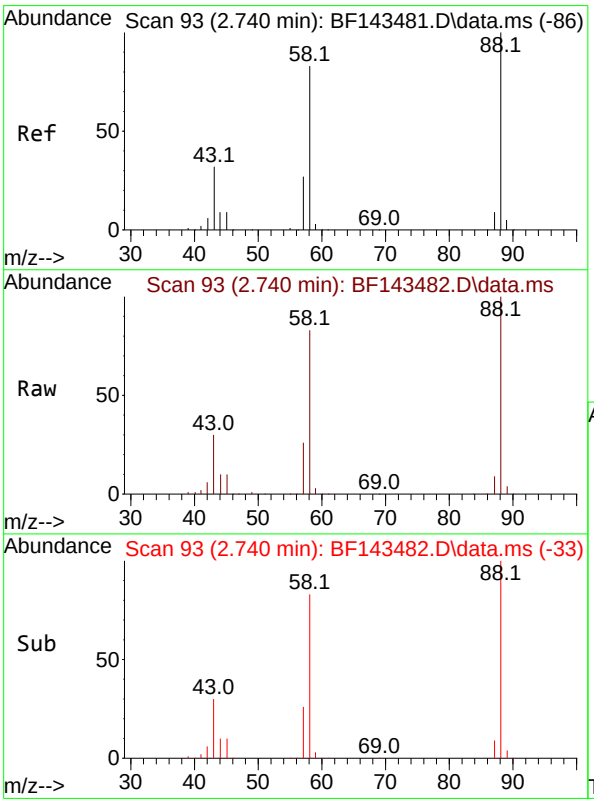
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.928 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:152 Resp: 136821

Ion	Ratio	Lower	Upper
152	100		
150	157.1	128.9	193.3
115	60.2	49.2	73.8

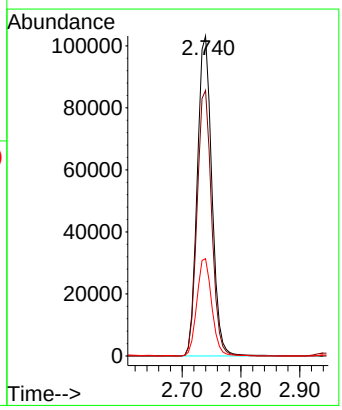


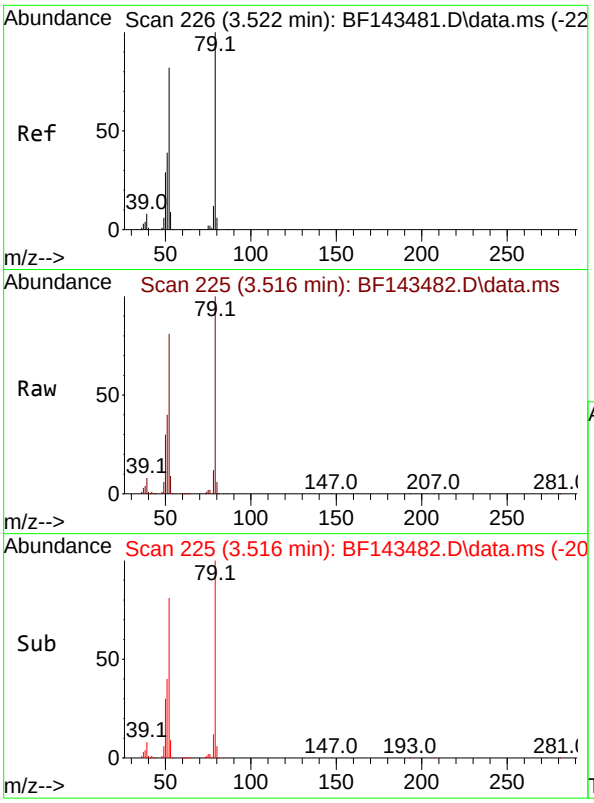


#2
1,4-Dioxane
Concen: 48.893 ng
RT: 2.740 min Scan# 93
Delta R.T. 0.006 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Tgt Ion: 88 Resp: 177472

Ion	Ratio	Lower	Upper
88	100		
58	82.6	66.7	100.1
43	31.1	25.8	38.8



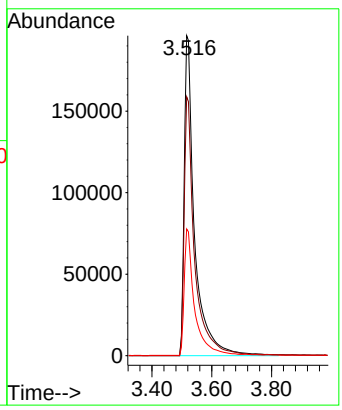


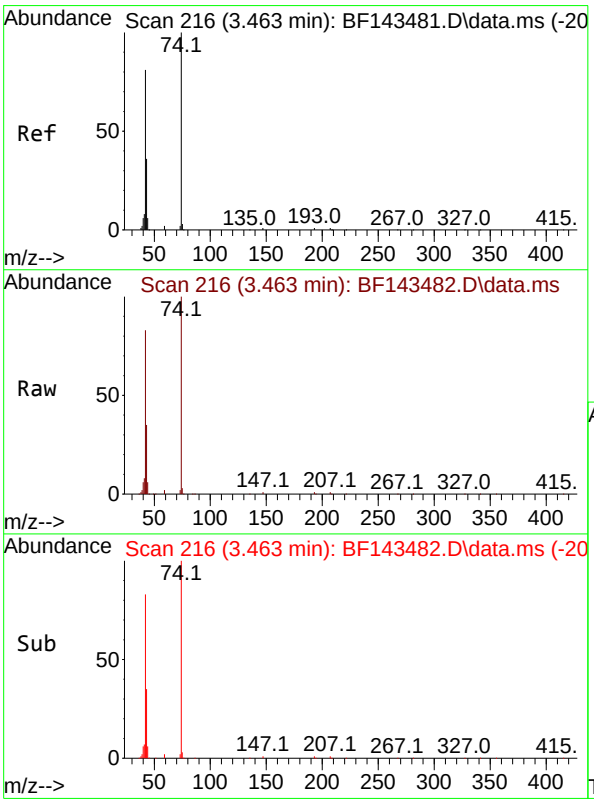
#3
Pyridine
Concen: 49.153 ng
RT: 3.516 min Scan# 21
Delta R.T. -0.000 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 79 Resp: 475201

Ion	Ratio	Lower	Upper
79	100		
52	80.9	65.6	98.4
51	39.6	31.2	46.8

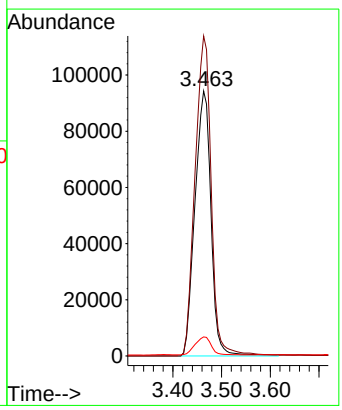


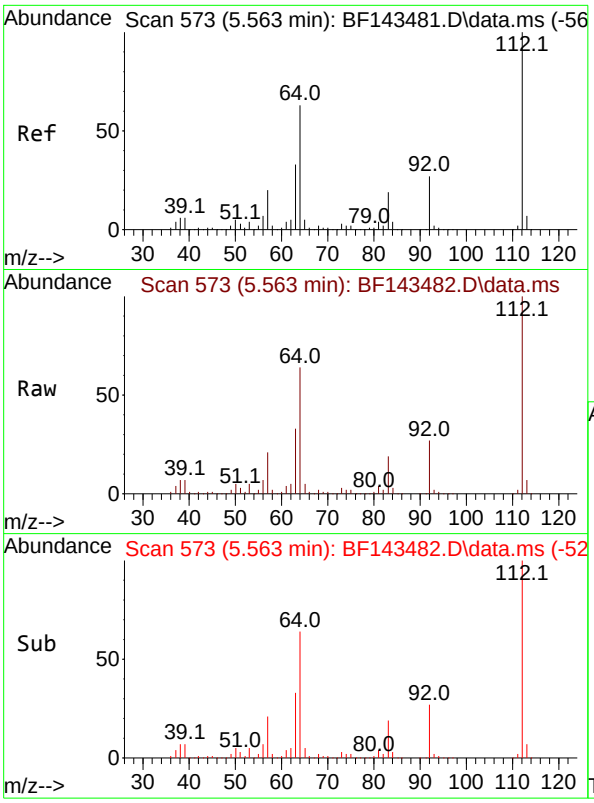


#4
n-Nitrosodimethylamine
Concen: 49.825 ng
RT: 3.463 min Scan# 216
Delta R.T. -0.012 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Tgt Ion: 42 Resp: 216544

Ion	Ratio	Lower	Upper
42	100		
74	120.7	98.6	148.0
44	7.2	5.8	8.8



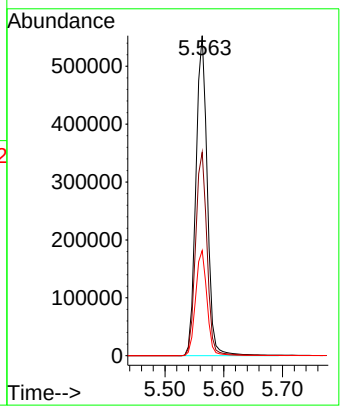


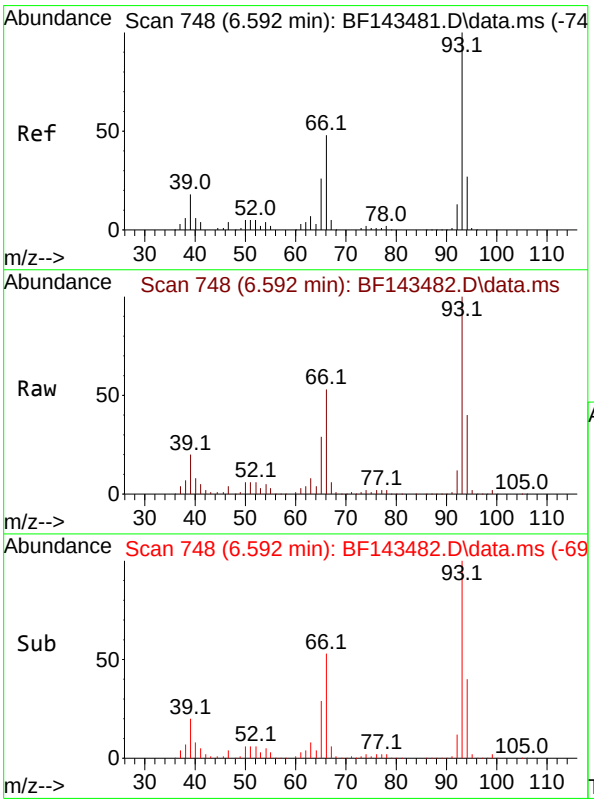
#5
2-Fluorophenol
Concen: 94.894 ng
RT: 5.563 min Scan# 5
Delta R.T. -0.000 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:112 Resp: 743545

Ion	Ratio	Lower	Upper
112	100		
64	63.5	50.4	75.6
63	32.9	26.4	39.6

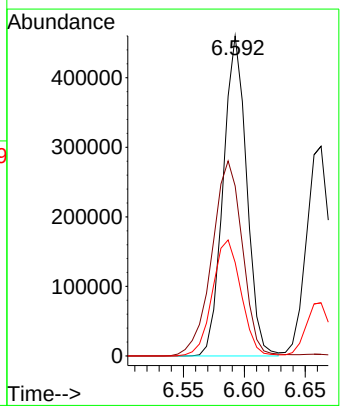


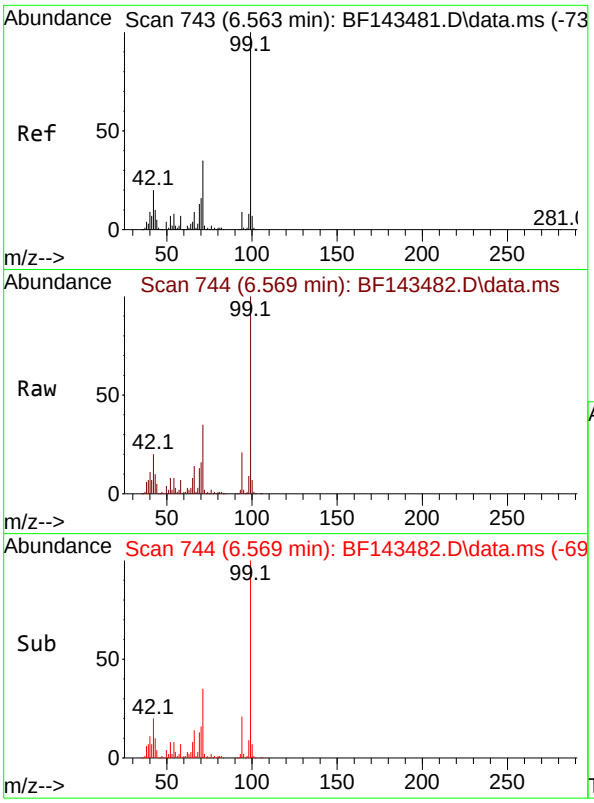


#6
Aniline
Concen: 47.614 ng
RT: 6.592 min Scan# 748
Delta R.T. -0.000 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Tgt Ion: 93 Resp: 615592

Ion	Ratio	Lower	Upper
93	100		
66	53.1	38.9	58.3
65	29.2	20.6	30.8



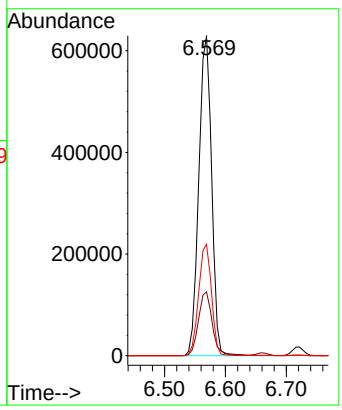


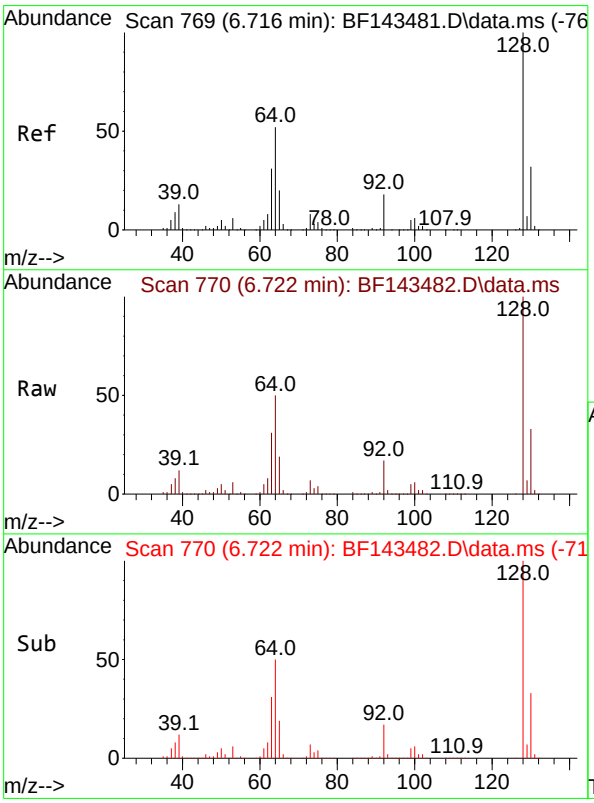
#7
Phenol-d6
Concen: 94.880 ng
RT: 6.569 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 99 Resp: 917735

Ion	Ratio	Lower	Upper
99	100		
42	19.9	16.3	24.5
71	34.8	28.2	42.2

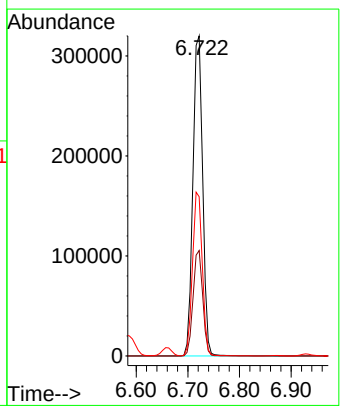


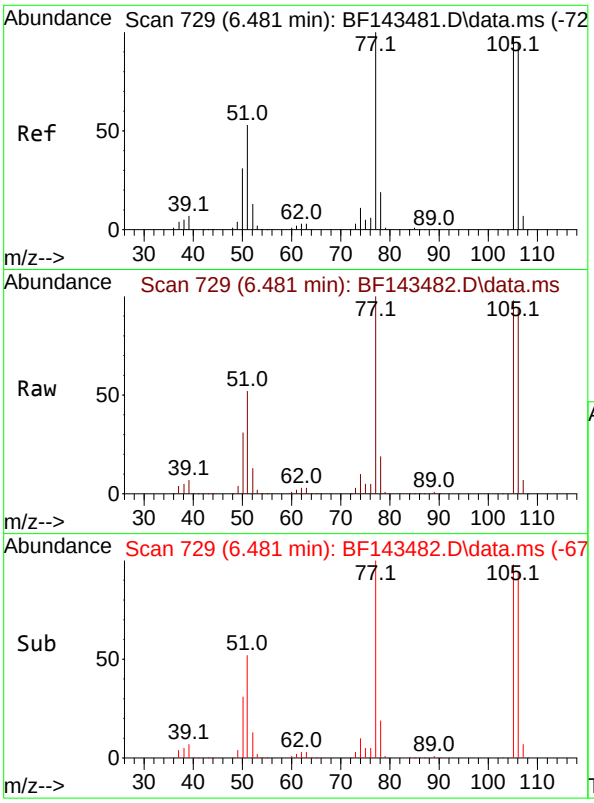


#8
2-Chlorophenol
Concen: 48.589 ng
RT: 6.722 min Scan# 770
Delta R.T. -0.000 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Tgt Ion:128 Resp: 420515

Ion	Ratio	Lower	Upper
128	100		
130	32.9	12.4	52.4
64	49.8	31.6	71.6



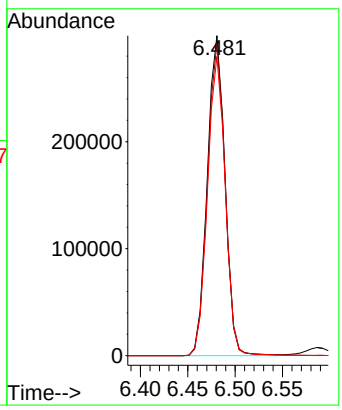


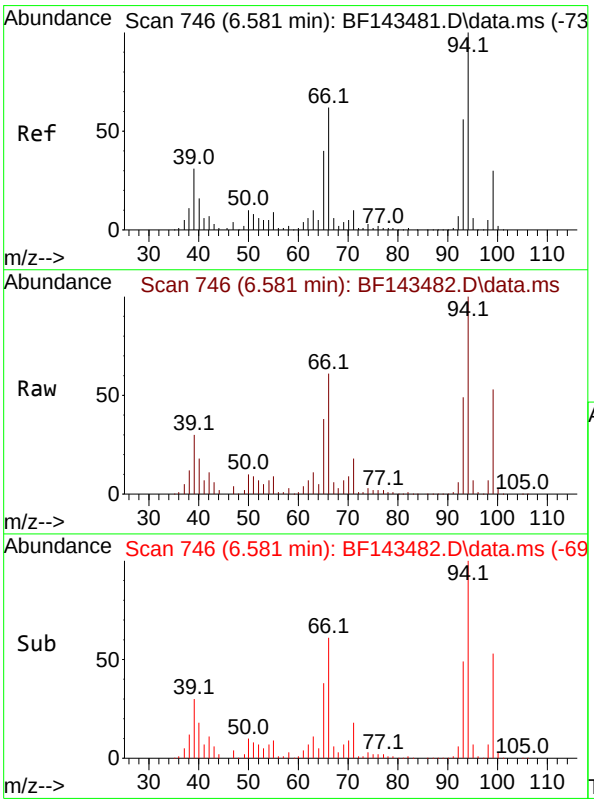
#9
Benzaldehyde
Concen: 49.497 ng
RT: 6.481 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 77 Resp: 387617

Ion	Ratio	Lower	Upper
77	100		
105	97.5	78.1	118.1
106	93.5	74.9	114.9

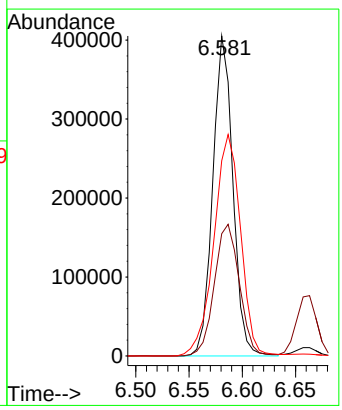


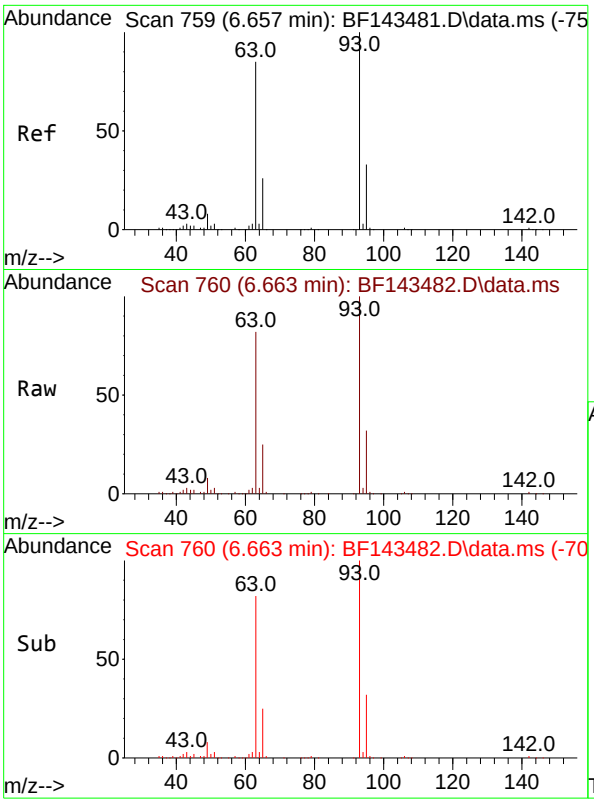


#10
Phenol
Concen: 47.696 ng
RT: 6.581 min Scan# 746
Delta R.T. -0.006 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Tgt Ion: 94 Resp: 531465

Ion	Ratio	Lower	Upper
94	100		
65	38.2	19.5	59.5
66	61.0	42.5	82.5



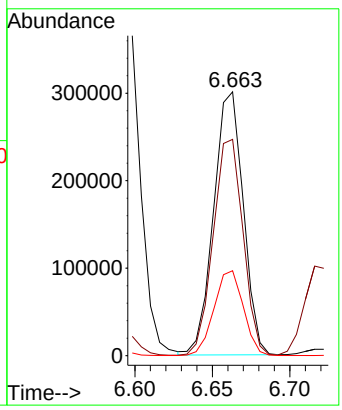


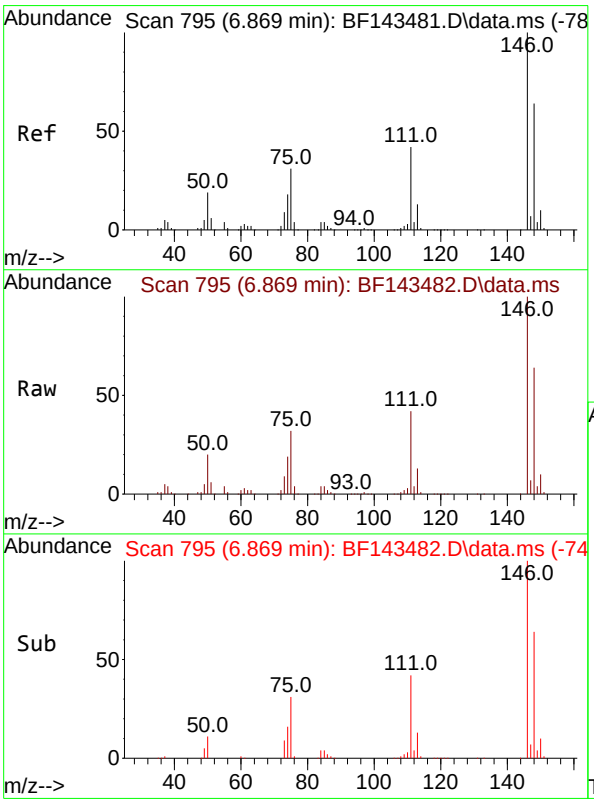
#11
bis(2-Chloroethyl)ether
Concen: 48.077 ng
RT: 6.663 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 93 Resp: 400326

Ion	Ratio	Lower	Upper
93	100		
63	82.0	63.6	103.6
95	32.2	12.8	52.8

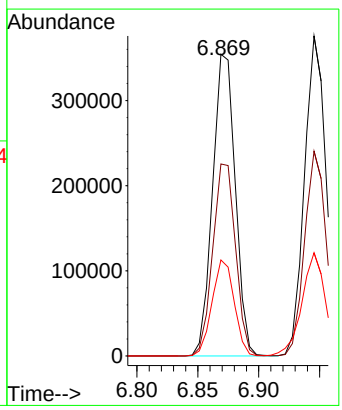


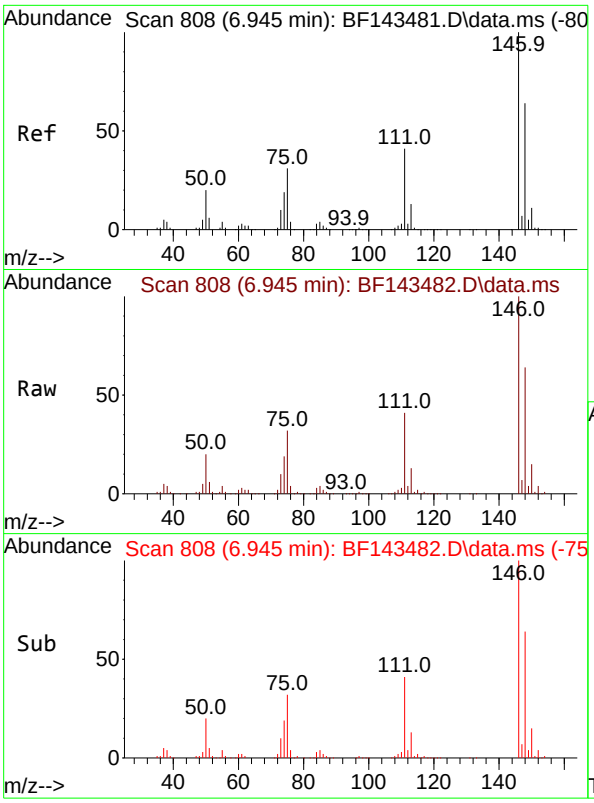


#12
1,3-Dichlorobenzene
Concen: 47.316 ng
RT: 6.869 min Scan# 795
Delta R.T. -0.006 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Tgt Ion:146 Resp: 460100

Ion	Ratio	Lower	Upper
146	100		
148	63.6	51.3	76.9
75	31.8	24.7	37.1



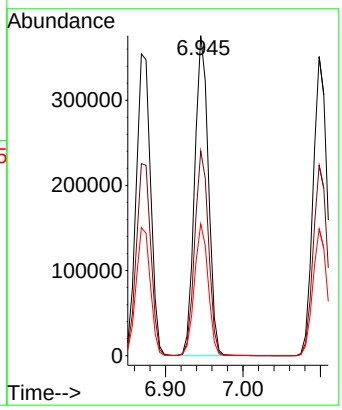


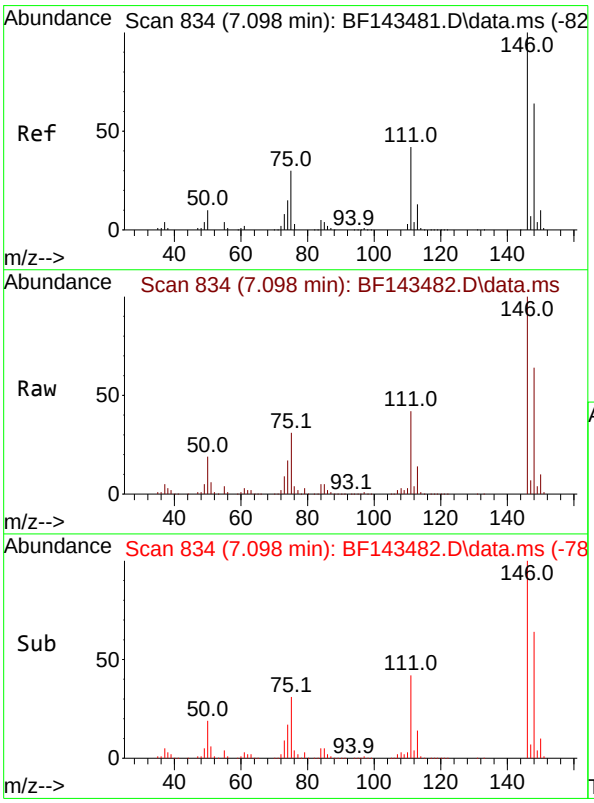
#13
1,4-Dichlorobenzene
Concen: 47.503 ng
RT: 6.945 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:146 Resp: 463354

Ion	Ratio	Lower	Upper
146	100		
148	64.0	51.5	77.3
111	41.2	32.6	49.0

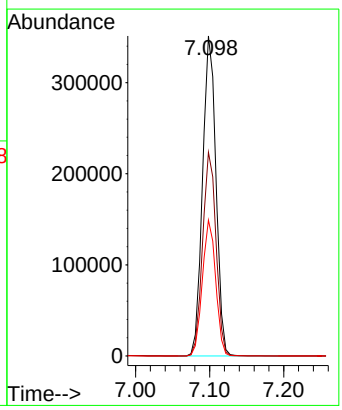


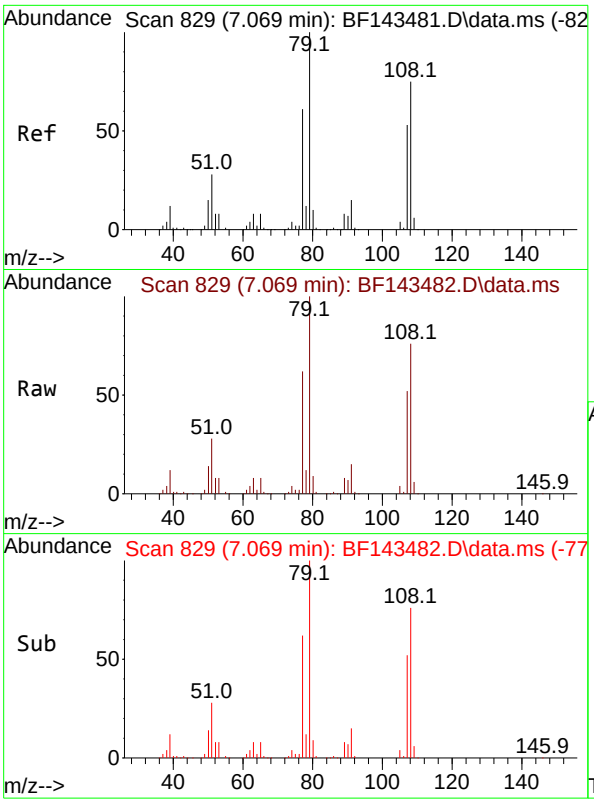


#14
1,2-Dichlorobenzene
Concen: 47.724 ng
RT: 7.098 min Scan# 834
Delta R.T. -0.000 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Tgt Ion:146 Resp: 440736

Ion	Ratio	Lower	Upper
146	100		
148	63.7	51.0	76.6
111	42.4	34.0	51.0



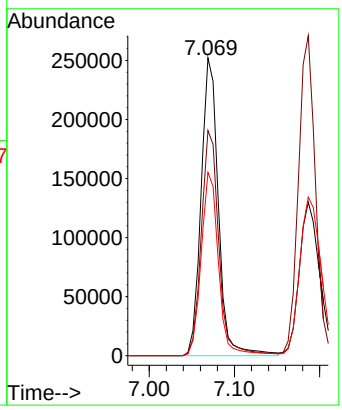


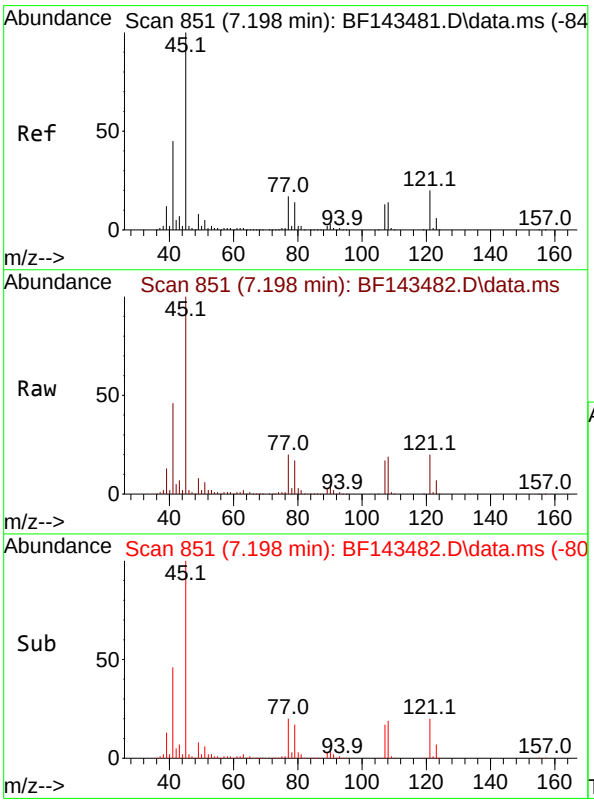
#15
Benzyl Alcohol
Concen: 49.130 ng
RT: 7.069 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 79 Resp: 355789

Ion	Ratio	Lower	Upper
79	100		
108	75.6	59.8	89.6
77	61.5	49.0	73.4

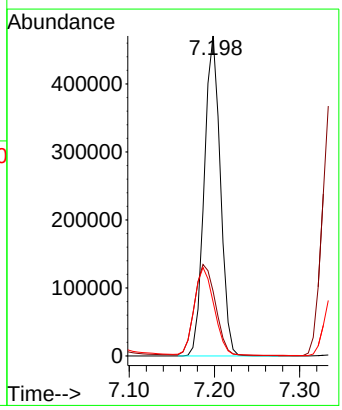


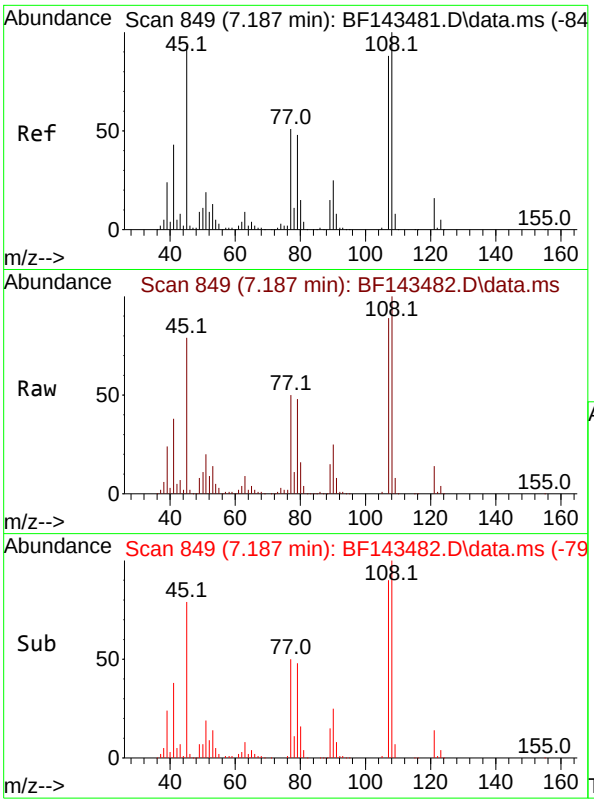


#16
2,2'-oxybis(1-Chloropropane)
Concen: 46.354 ng
RT: 7.198 min Scan# 851
Delta R.T. -0.000 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Tgt Ion: 45 Resp: 617519

Ion	Ratio	Lower	Upper
45	100		
77	20.2	0.0	37.9
79	16.9	0.0	34.7



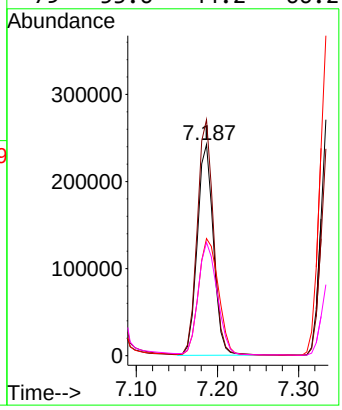


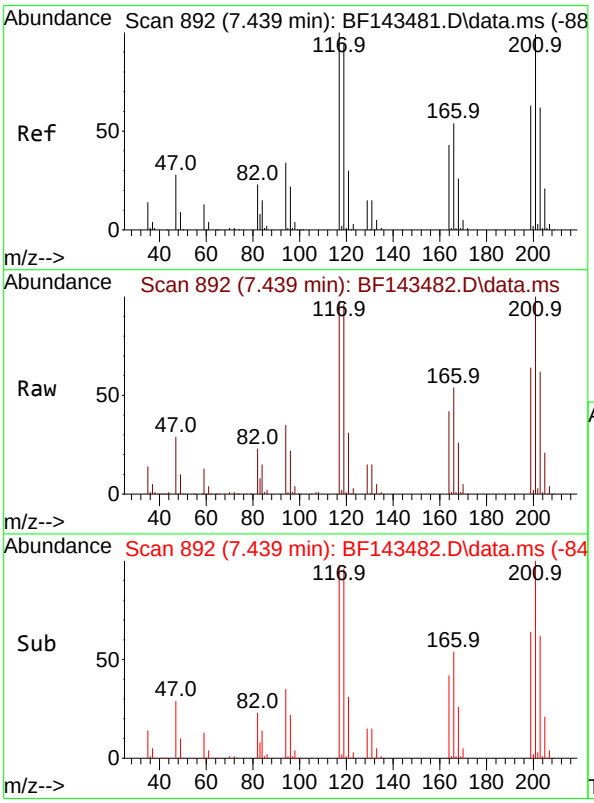
#17
2-Methylphenol
Concen: 48.029 ng
RT: 7.187 min Scan# 84
Delta R.T. -0.000 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:107 Resp: 333608

Ion	Ratio	Lower	Upper
107	100		
108	111.7	91.1	136.7
77	55.4	46.2	69.4
79	53.6	44.2	66.2

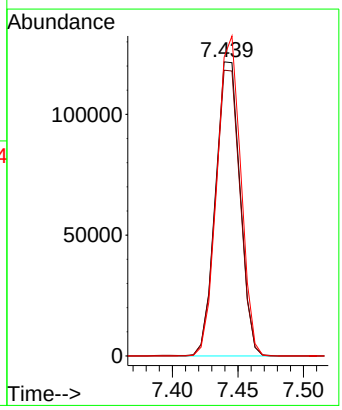


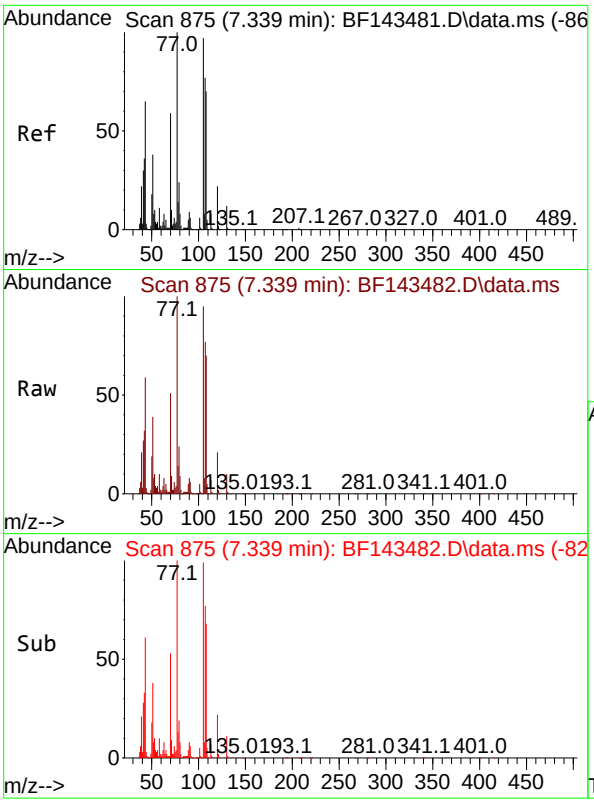


#18
Hexachloroethane
Concen: 47.633 ng
RT: 7.439 min Scan# 892
Delta R.T. -0.006 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Tgt Ion:117 Resp: 157972

Ion	Ratio	Lower	Upper
117	100		
119	97.2	75.4	113.0
201	101.6	79.0	118.4



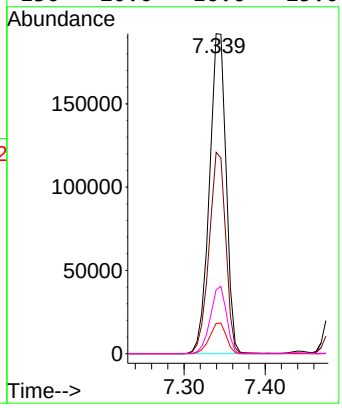


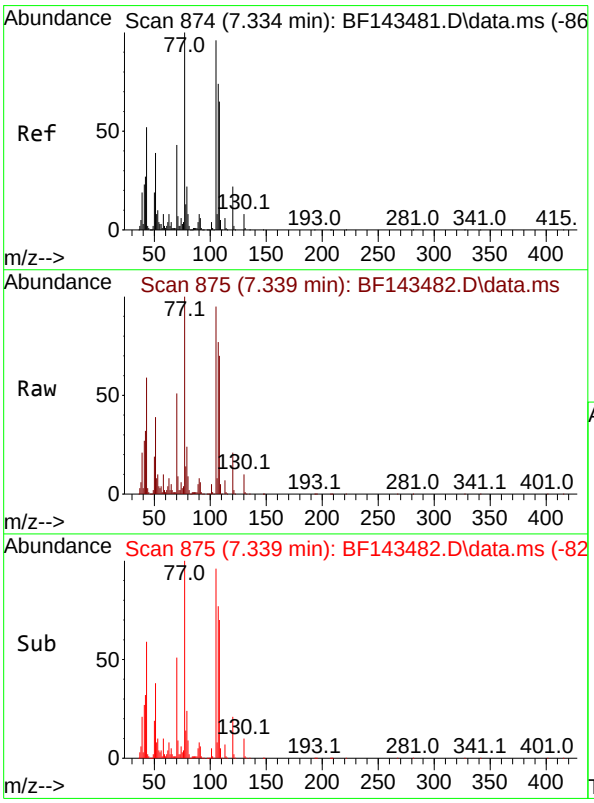
#19
n-Nitroso-di-n-propylamine
Concen: 46.266 ng
RT: 7.339 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 70 Resp: 273528

Ion	Ratio	Lower	Upper
70	100		
42	62.9	49.3	73.9
101	9.5	7.8	11.8
130	20.0	16.6	25.0

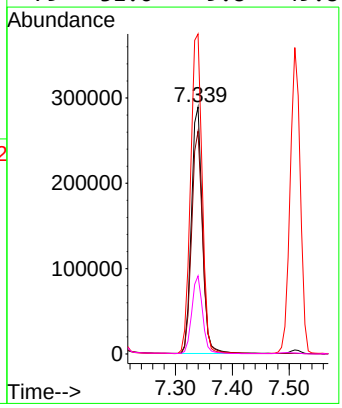


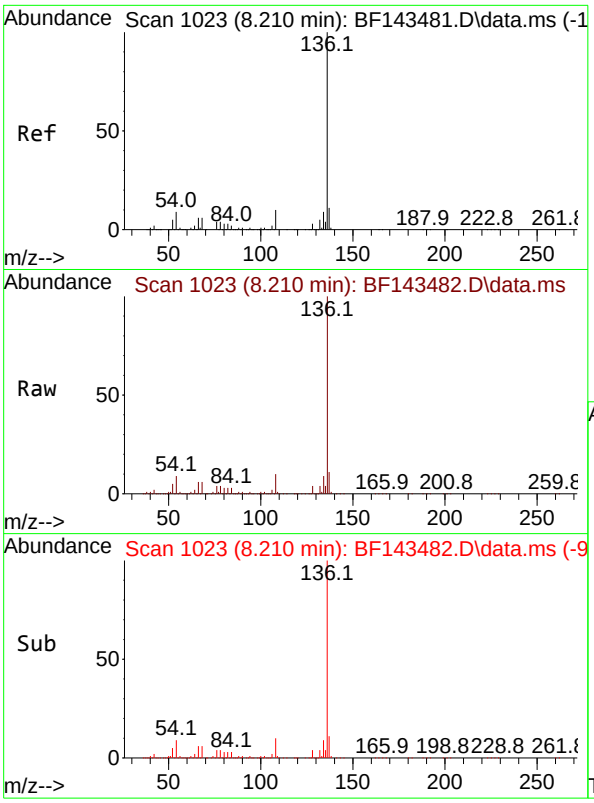


#20
3+4-Methylphenols
Concen: 47.167 ng
RT: 7.339 min Scan# 875
Delta R.T. -0.000 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Tgt Ion:107 Resp: 391106

Ion	Ratio	Lower	Upper
107	100		
108	90.2	68.4	108.4
77	129.6	116.1	156.1
79	31.6	9.8	49.8



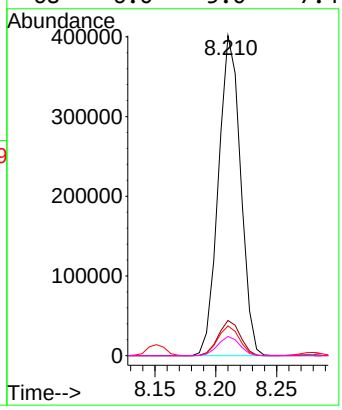


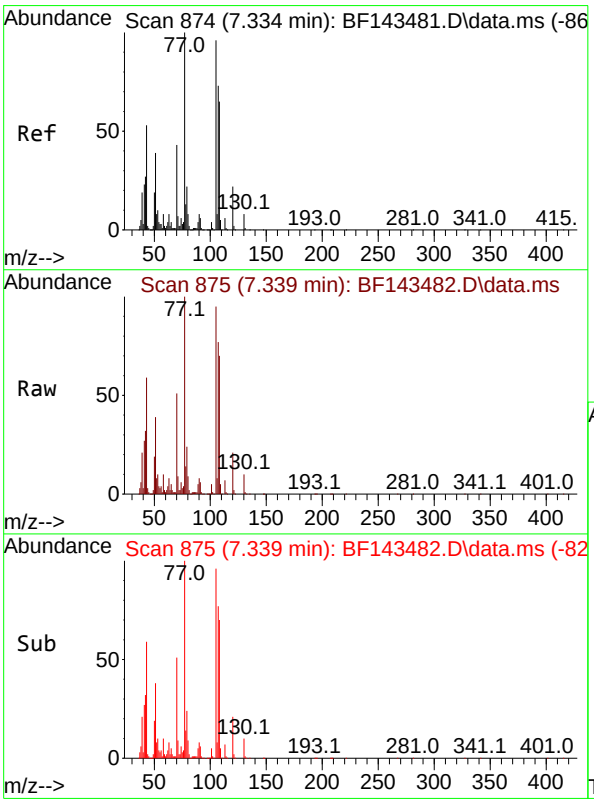
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.210 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:136 Resp: 508977

Ion	Ratio	Lower	Upper
136	100		
137	11.0	9.0	13.4
54	9.3	7.4	11.2
68	6.0	5.0	7.4

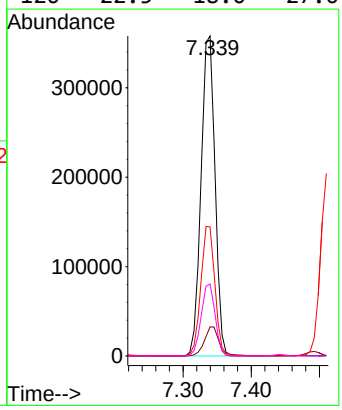


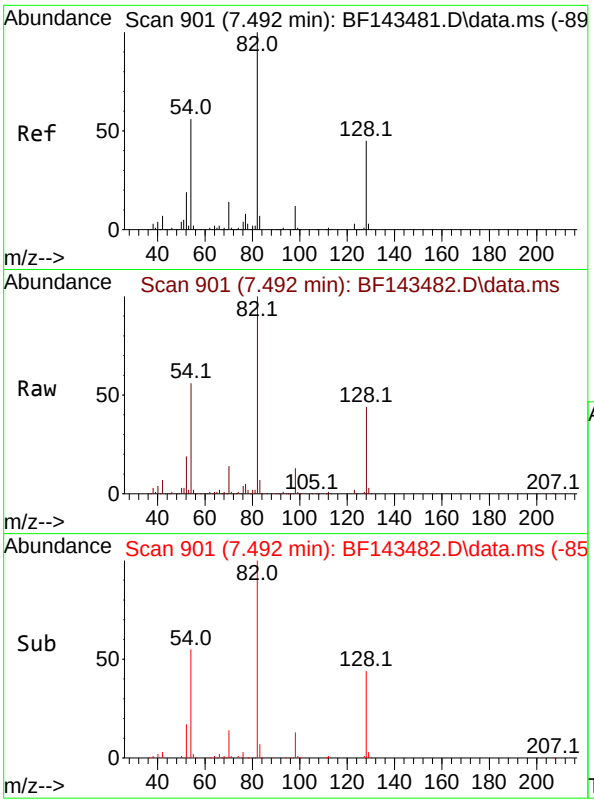


#22
Acetophenone
Concen: 46.526 ng
RT: 7.339 min Scan# 875
Delta R.T. -0.000 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Tgt Ion:105 Resp: 511600

Ion	Ratio	Lower	Upper
105	100		
71	9.1	5.9	8.9#
51	40.3	32.5	48.7
120	22.5	18.0	27.0



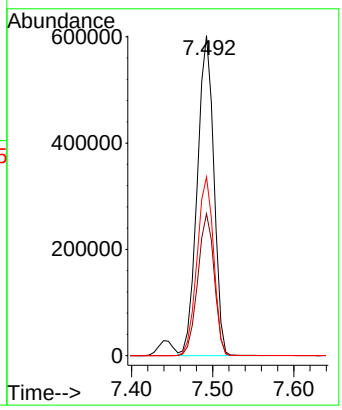


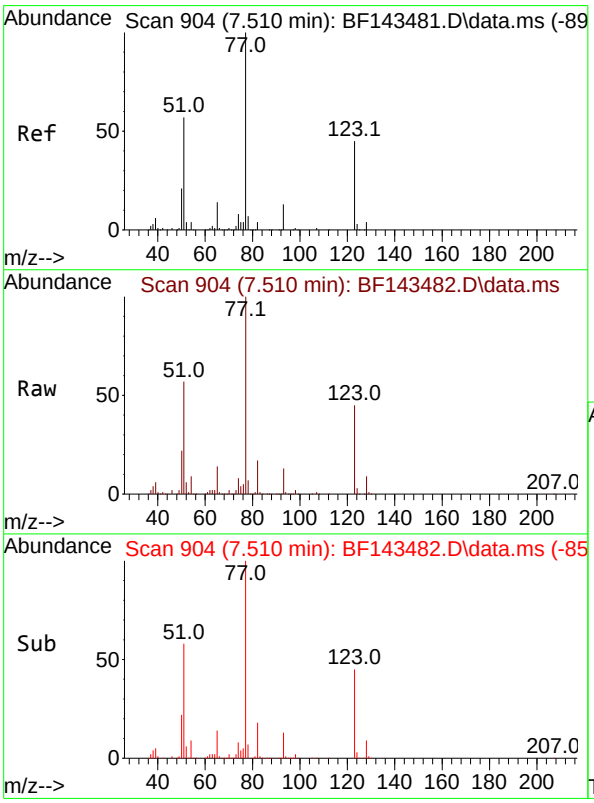
#23
Nitrobenzene-d5
Concen: 97.674 ng
RT: 7.492 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 82 Resp: 851921

Ion	Ratio	Lower	Upper
82	100		
128	44.3	35.5	53.3
54	55.8	44.3	66.5

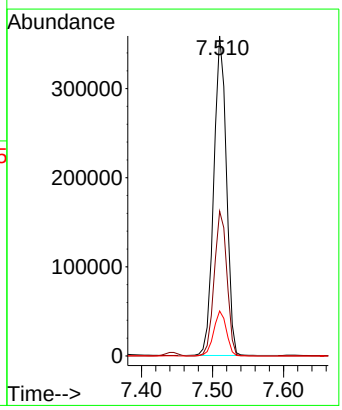


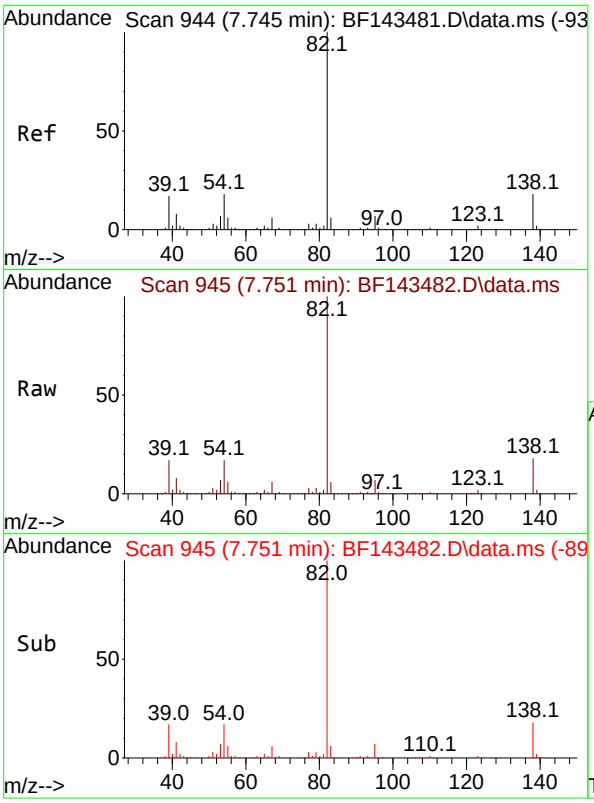


#24
Nitrobenzene
Concen: 49.387 ng
RT: 7.510 min Scan# 904
Delta R.T. -0.006 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Tgt Ion: 77 Resp: 443345

Ion	Ratio	Lower	Upper
77	100		
123	45.2	36.1	54.1
65	14.1	11.0	16.6



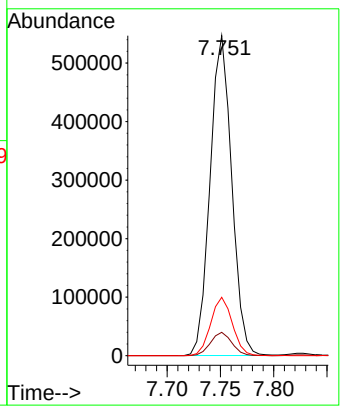


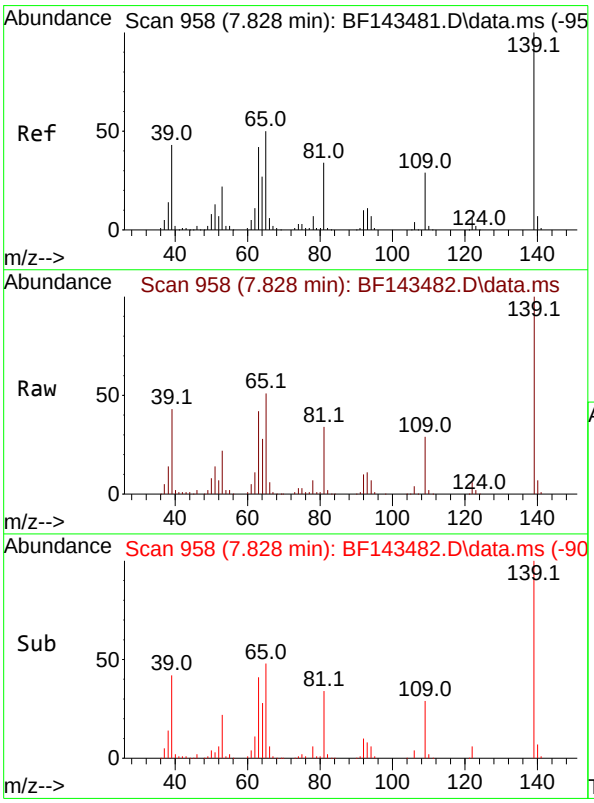
#25
Isophorone
Concen: 48.401 ng
RT: 7.751 min Scan# 94
Delta R.T. -0.006 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 82 Resp: 773853

Ion	Ratio	Lower	Upper
82	100		
95	7.3	5.8	8.8
138	18.3	14.2	21.4

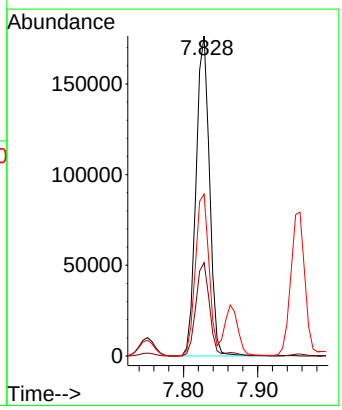


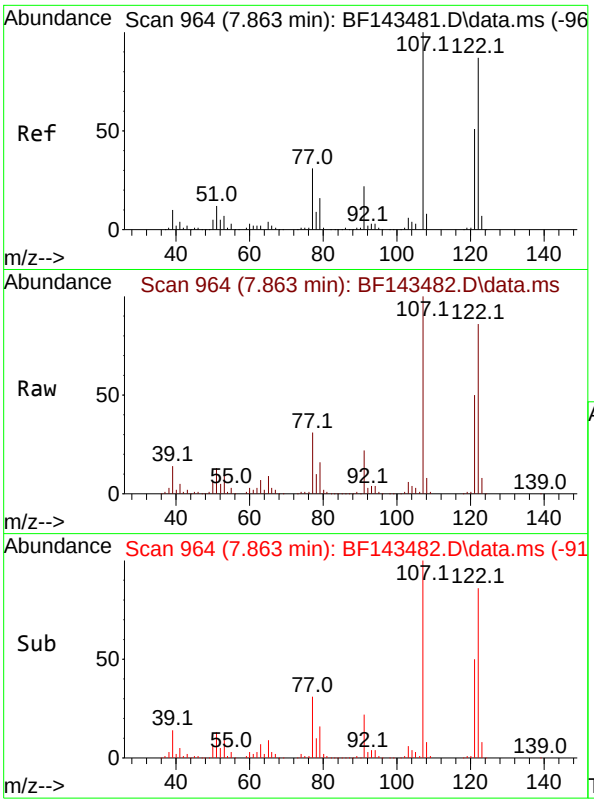


#26
2-Nitrophenol
Concen: 50.572 ng
RT: 7.828 min Scan# 958
Delta R.T. -0.000 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Tgt Ion:139 Resp: 222383

Ion	Ratio	Lower	Upper
139	100		
109	29.1	23.0	34.6
65	50.5	40.3	60.5



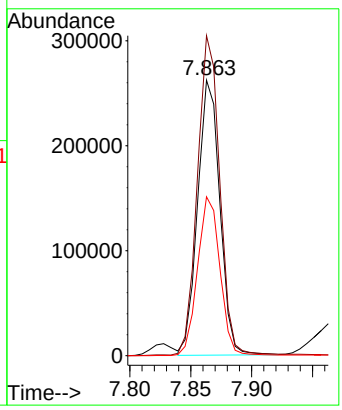


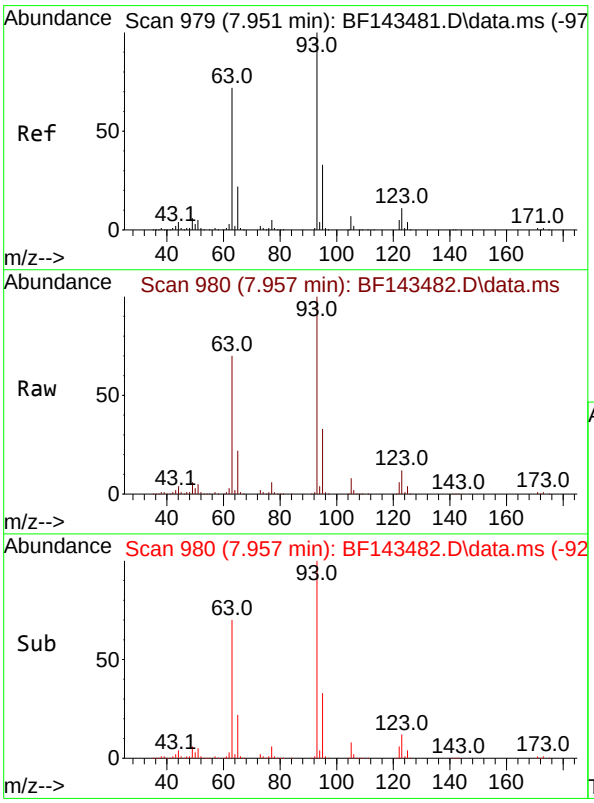
#27
2,4-Dimethylphenol
Concen: 48.606 ng
RT: 7.863 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:122 Resp: 333188

Ion	Ratio	Lower	Upper
122	100		
107	116.2	91.5	137.3
121	57.7	47.0	70.4

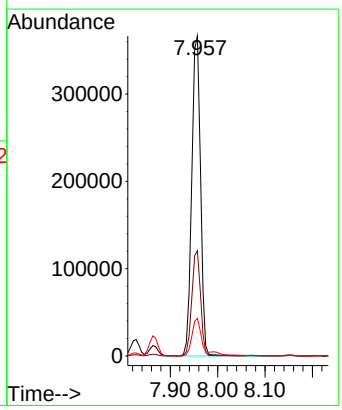


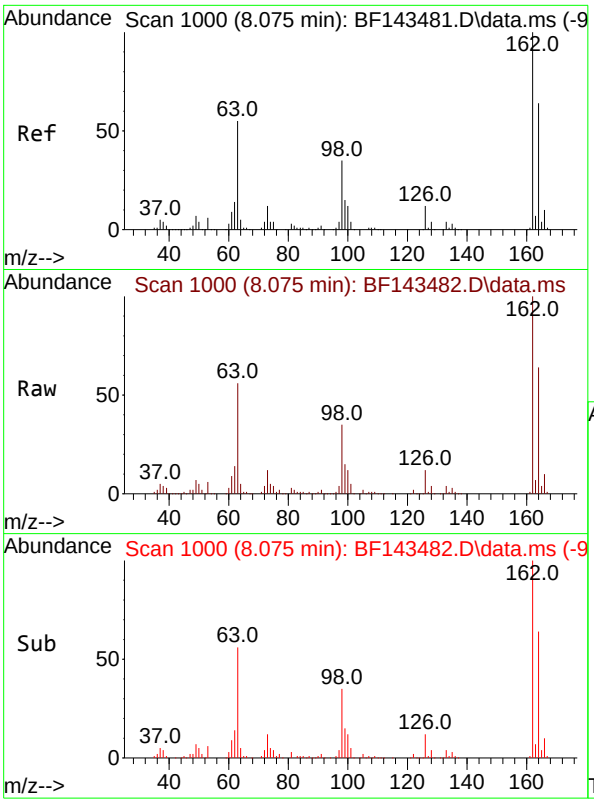


#28
bis(2-Chloroethoxy)methane
Concen: 48.070 ng
RT: 7.957 min Scan# 980
Delta R.T. -0.000 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Tgt Ion: 93 Resp: 472331

Ion	Ratio	Lower	Upper
93	100		
95	32.9	26.0	39.0
123	11.7	9.1	13.7



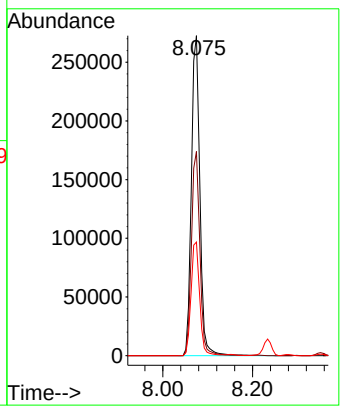


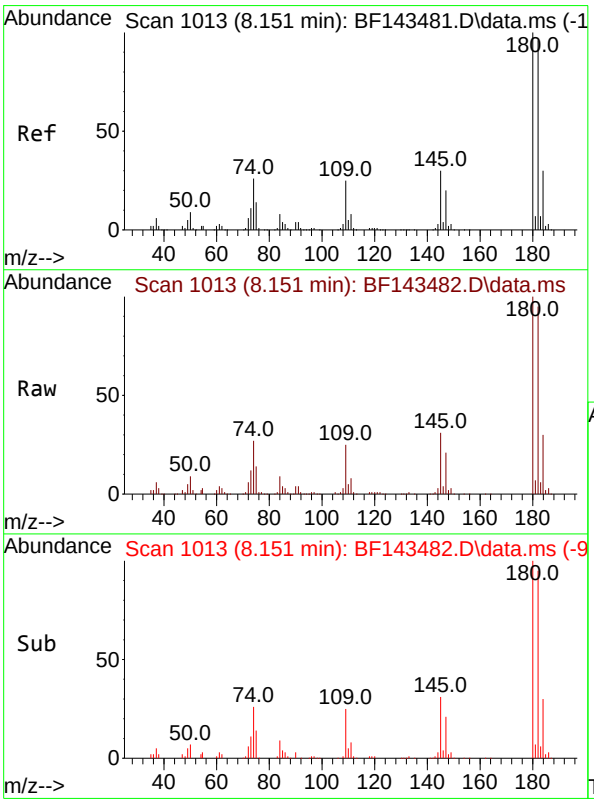
#29
2,4-Dichlorophenol
Concen: 48.908 ng
RT: 8.075 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:162 Resp: 358054

Ion	Ratio	Lower	Upper
162	100		
164	63.8	43.5	83.5
98	35.5	15.1	55.1

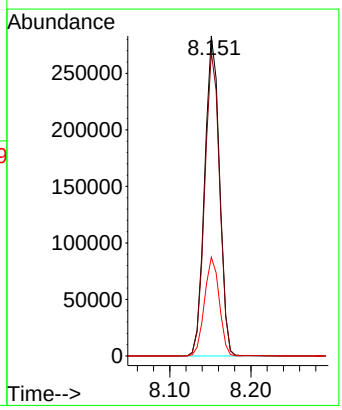


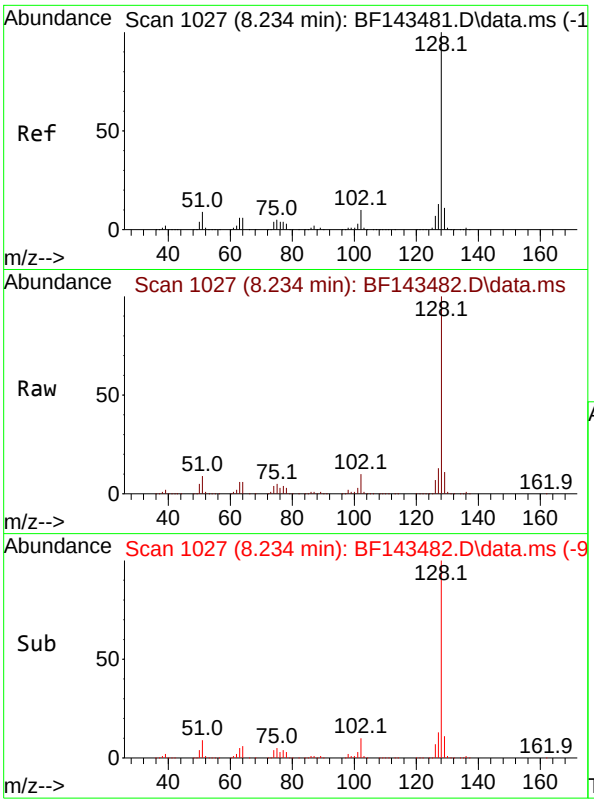


#30
1,2,4-Trichlorobenzene
Concen: 47.673 ng
RT: 8.151 min Scan# 1013
Delta R.T. -0.000 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Tgt Ion:180 Resp: 358839

Ion	Ratio	Lower	Upper
180	100		
182	94.9	76.6	114.8
145	30.8	24.3	36.5



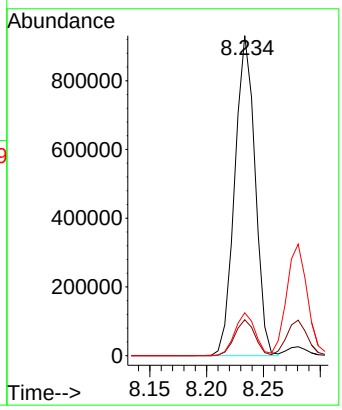


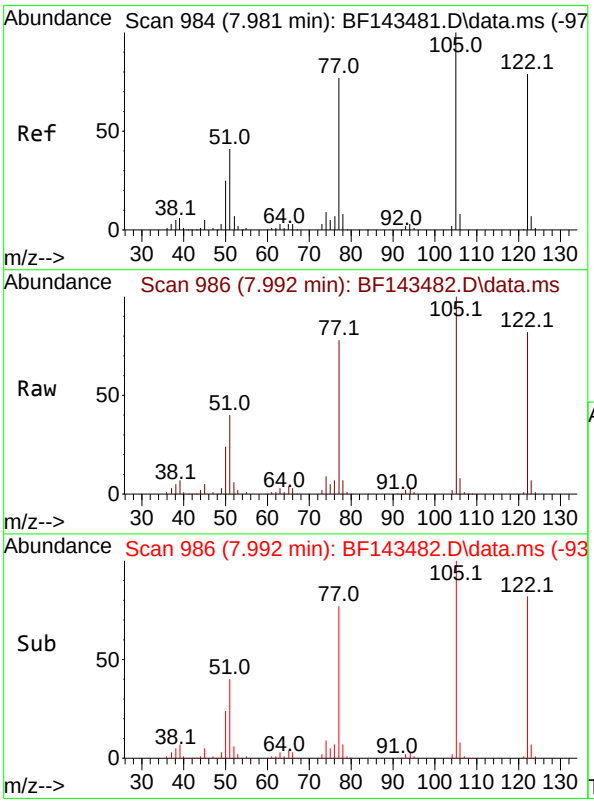
#31
Naphthalene
Concen: 47.228 ng
RT: 8.234 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:128 Resp: 1154068

Ion	Ratio	Lower	Upper
128	100		
129	11.2	8.8	13.2
127	13.4	10.6	16.0

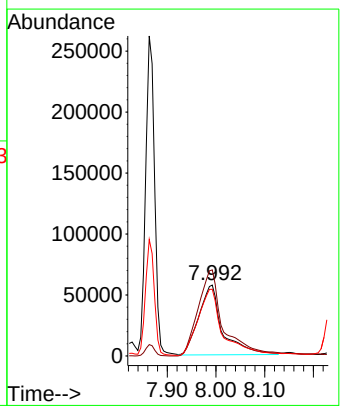


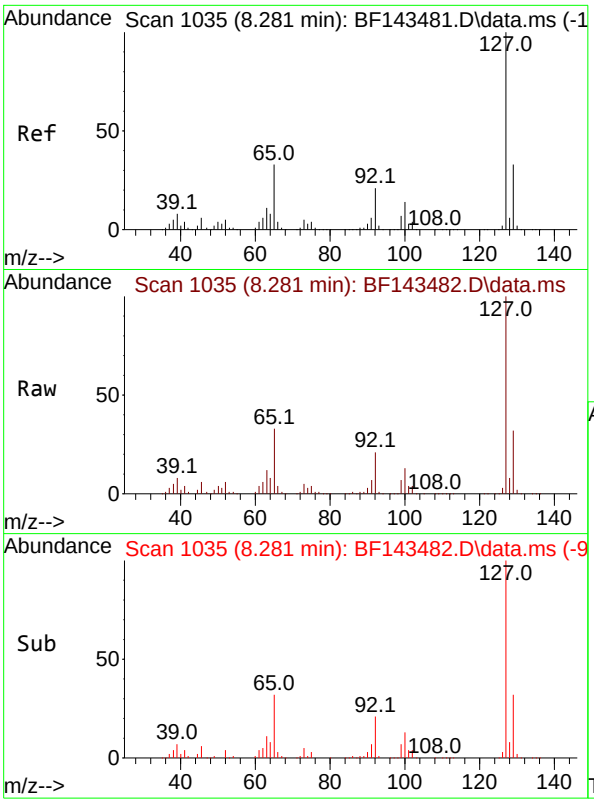


#32
Benzoic acid
Concen: 49.619 ng
RT: 7.992 min Scan# 986
Delta R.T. -0.018 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Tgt Ion:122 Resp: 194231

Ion	Ratio	Lower	Upper
122	100		
105	121.3	104.7	144.7
77	94.1	77.3	117.3



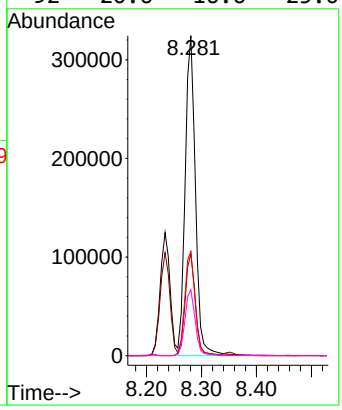


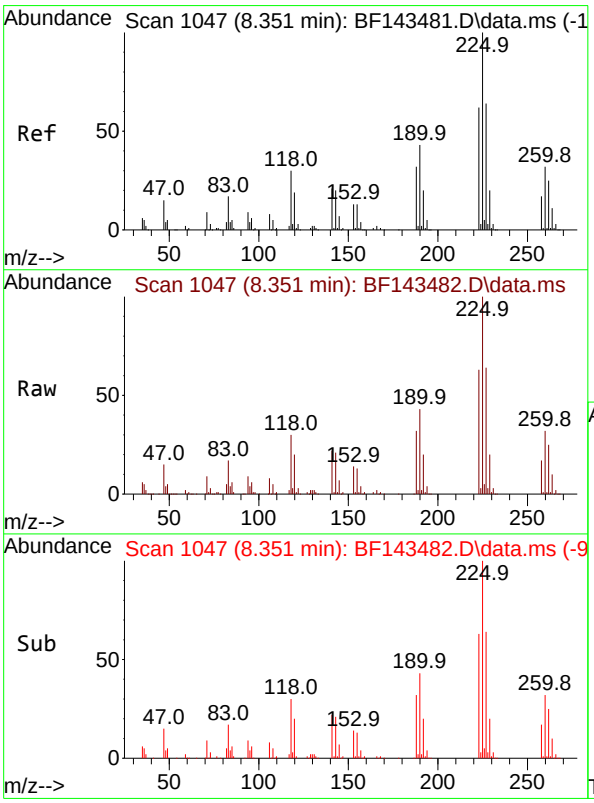
#33
4-Chloroaniline
Concen: 48.617 ng
RT: 8.281 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:127 Resp: 421648

Ion	Ratio	Lower	Upper
127	100		
129	31.9	26.1	39.1
65	32.5	26.2	39.2
92	20.6	16.6	25.0

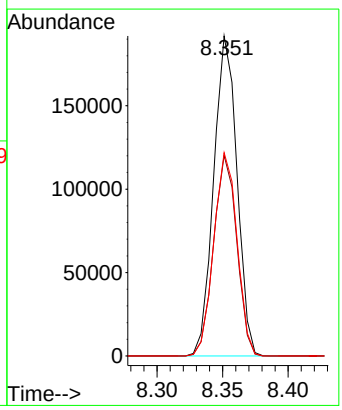


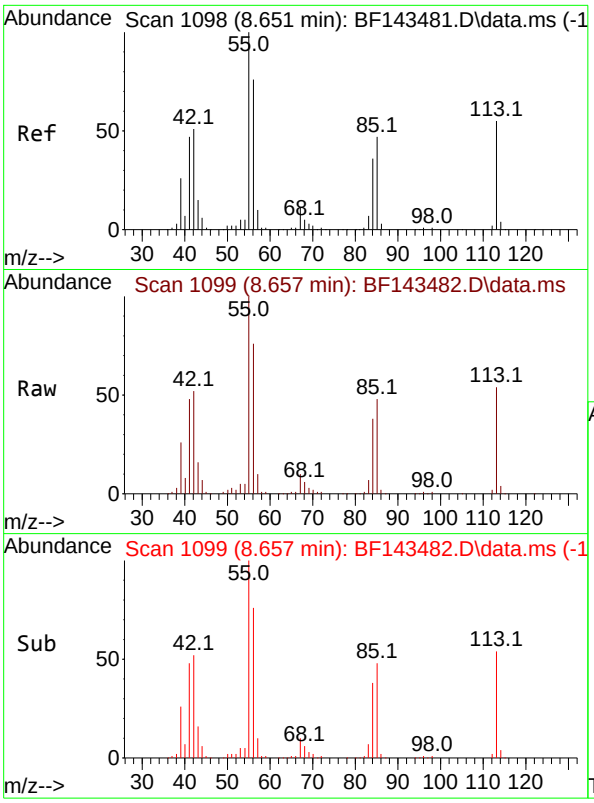


#34
Hexachlorobutadiene
Concen: 48.095 ng
RT: 8.351 min Scan# 1047
Delta R.T. -0.000 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Tgt Ion:225 Resp: 236186

Ion	Ratio	Lower	Upper
225	100		
223	62.7	49.9	74.9
227	63.6	50.9	76.3



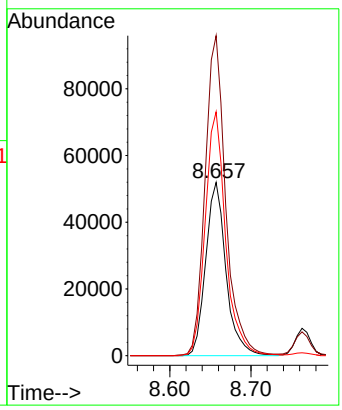


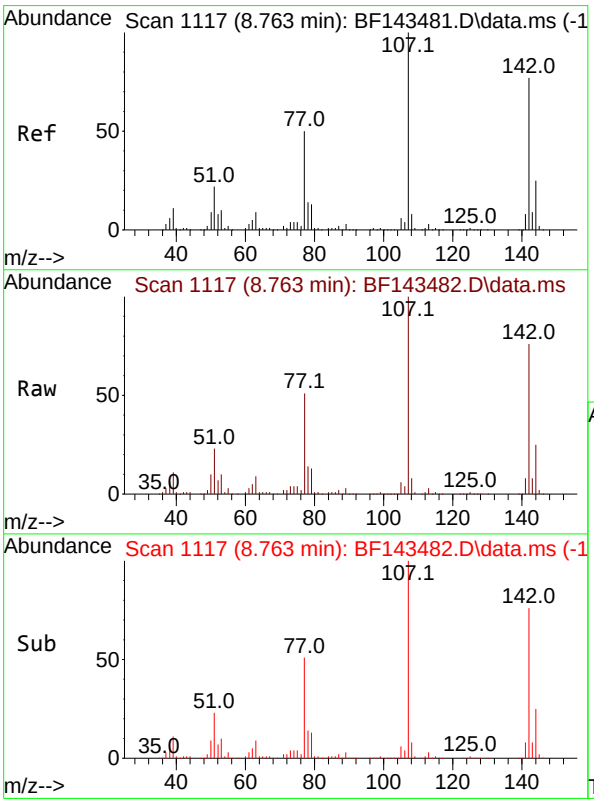
#35
Caprolactam
Concen: 51.340 ng
RT: 8.657 min Scan# 1
Delta R.T. -0.018 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:113 Resp: 90192

Ion	Ratio	Lower	Upper
113	100		
55	184.7	162.8	202.8
56	140.7	118.1	158.1

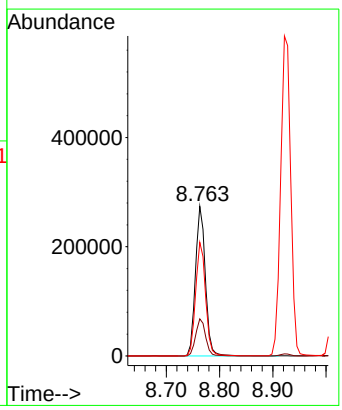


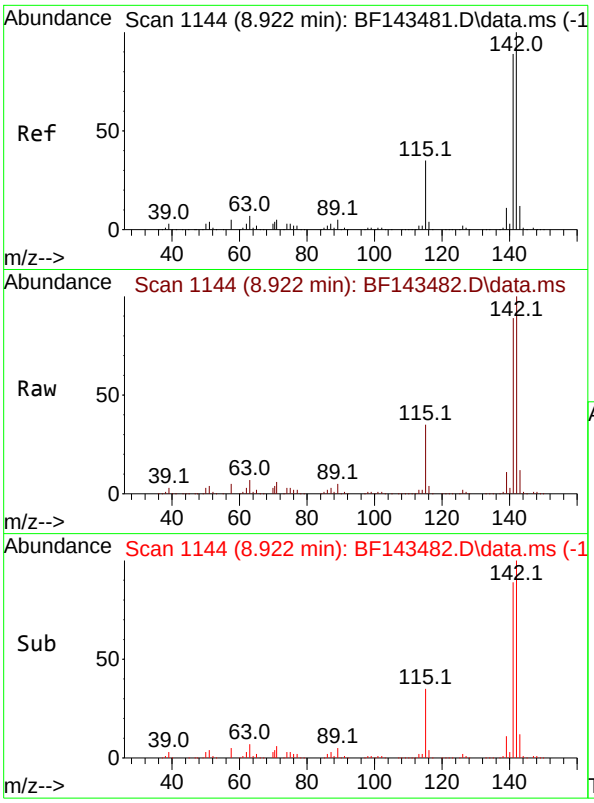


#36
4-Chloro-3-methylphenol
Concen: 48.497 ng
RT: 8.763 min Scan# 1117
Delta R.T. -0.006 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Tgt Ion:107 Resp: 355809

Ion	Ratio	Lower	Upper
107	100		
144	24.9	19.9	29.9
142	75.9	61.8	92.8



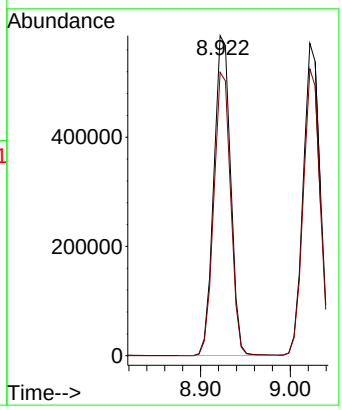


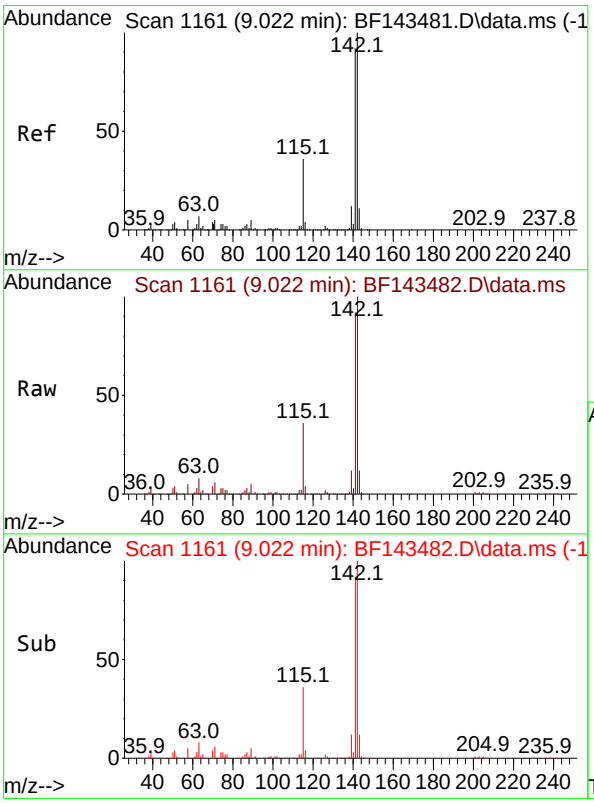
#37
2-Methylnaphthalene
Concen: 46.774 ng
RT: 8.922 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:142 Resp: 763368

Ion	Ratio	Lower	Upper
142	100		
141	88.5	71.0	106.4

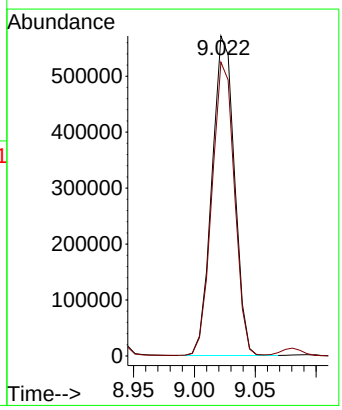


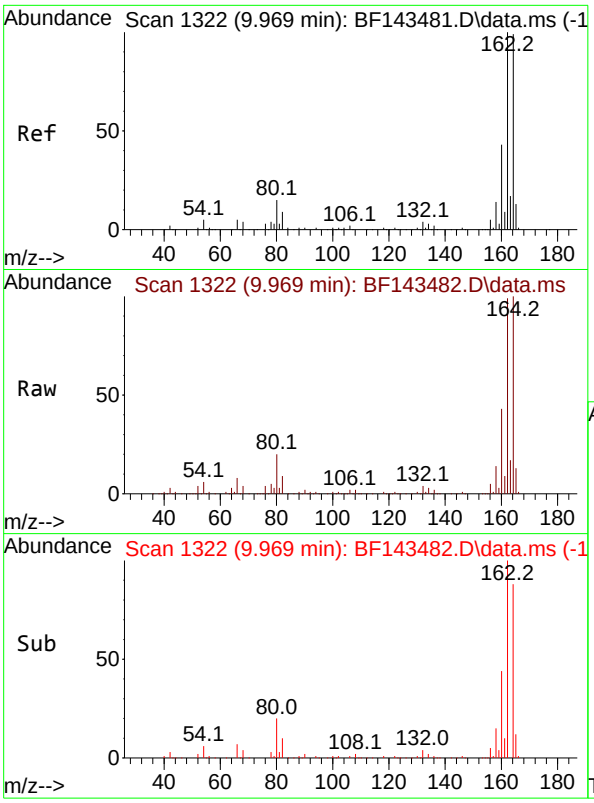


#38
1-Methylnaphthalene
Concen: 47.049 ng
RT: 9.022 min Scan# 1161
Delta R.T. -0.006 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Tgt Ion:142 Resp: 734490

Ion	Ratio	Lower	Upper
142	100		
141	91.8	73.3	109.9



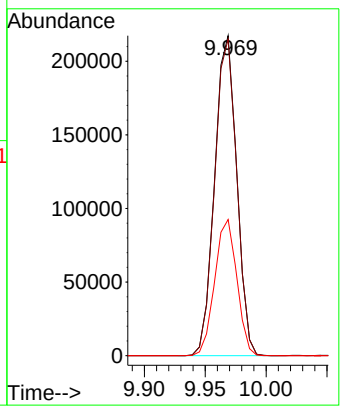


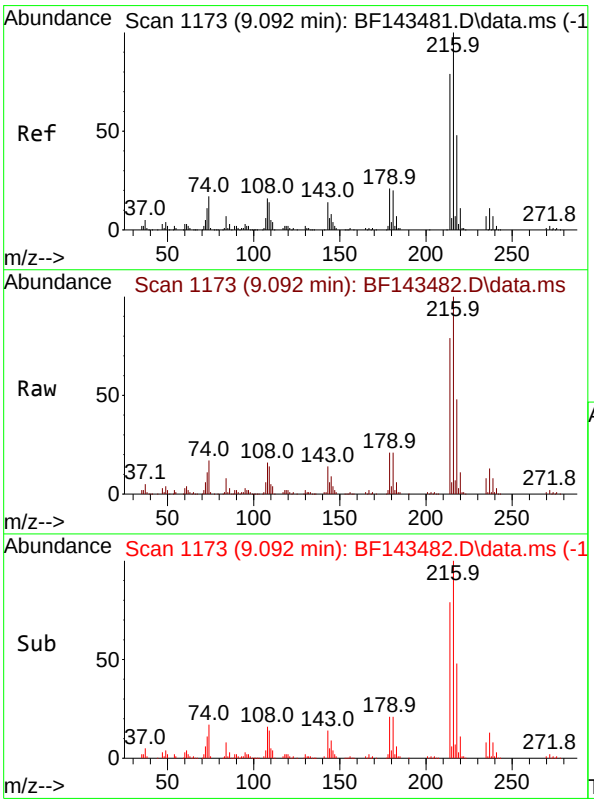
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:164 Resp: 274766

Ion	Ratio	Lower	Upper
164	100		
162	98.9	80.5	120.7
160	42.6	34.3	51.5

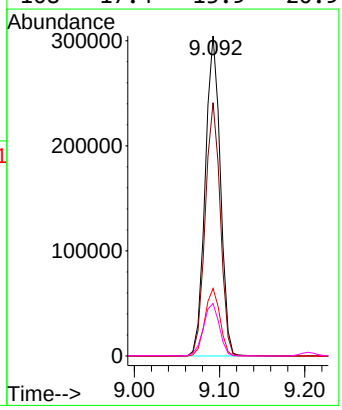


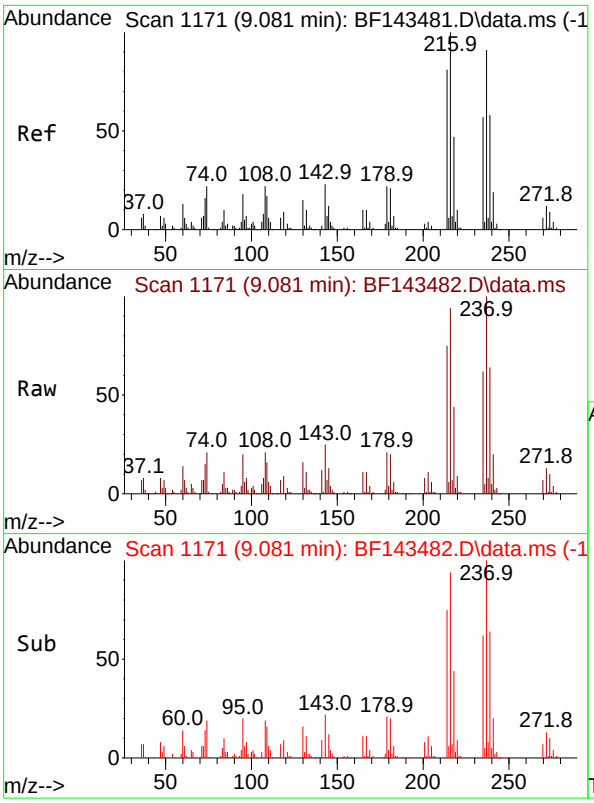


#40
1,2,4,5-Tetrachlorobenzene
Concen: 47.541 ng
RT: 9.092 min Scan# 1173
Delta R.T. -0.000 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Tgt Ion:216 Resp: 373639

Ion	Ratio	Lower	Upper
216	100		
214	78.9	63.4	95.0
179	20.9	16.5	24.7
108	17.4	13.9	20.9



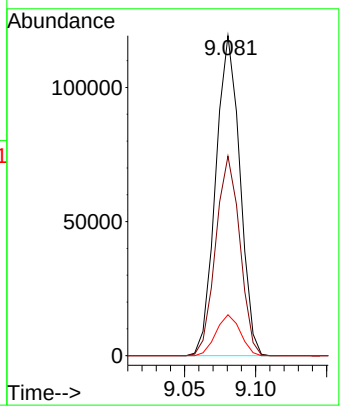


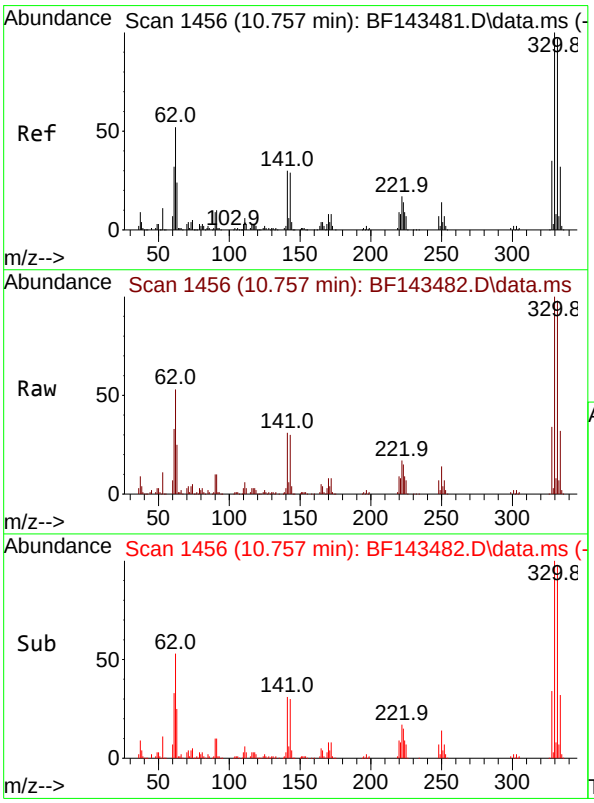
#41
Hexachlorocyclopentadiene
Concen: 48.905 ng
RT: 9.081 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:237 Resp: 141023

Ion	Ratio	Lower	Upper
237	100		
235	62.3	42.6	82.6
272	12.8	0.0	33.4

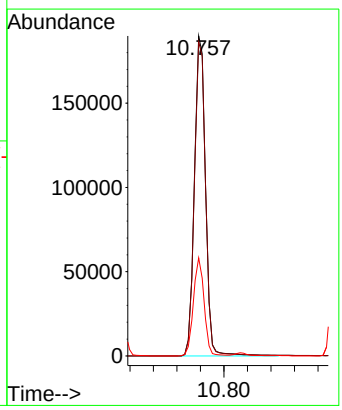


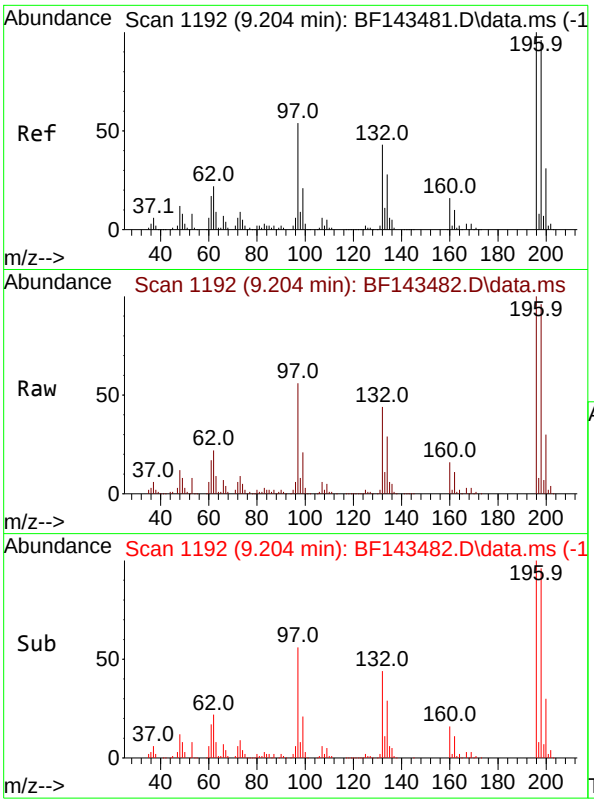


#42
2,4,6-Tribromophenol
Concen: 97.306 ng
RT: 10.757 min Scan# 1456
Delta R.T. -0.006 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Tgt Ion:330 Resp: 248877

Ion	Ratio	Lower	Upper
330	100		
332	98.3	78.0	117.0
141	29.6	23.7	35.5



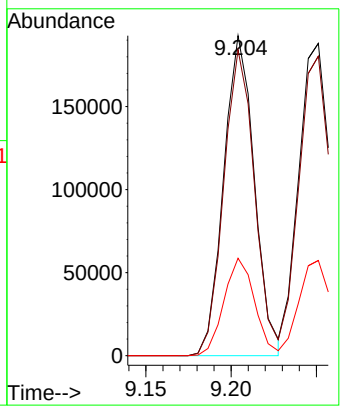


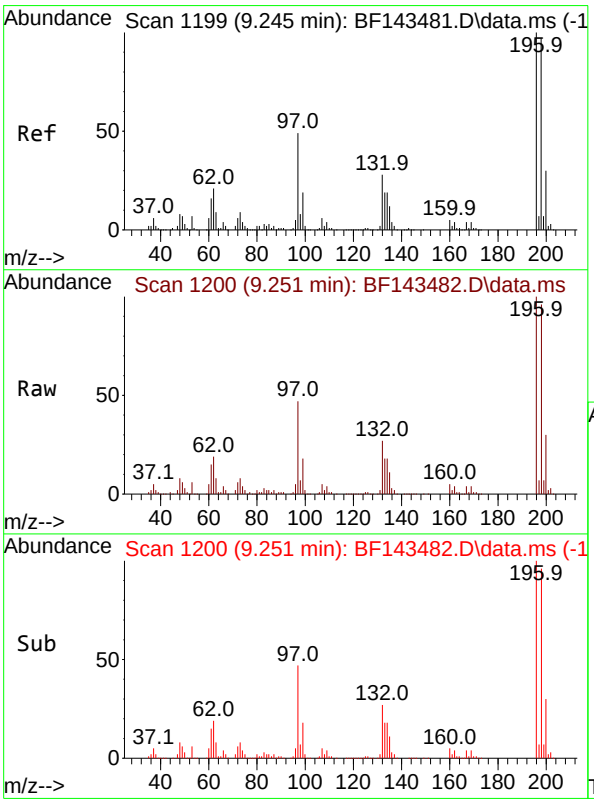
#43
2,4,6-Trichlorophenol
Concen: 49.900 ng
RT: 9.204 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:196 Resp: 241322

Ion	Ratio	Lower	Upper
196	100		
198	95.5	77.0	115.4
200	30.4	24.6	37.0

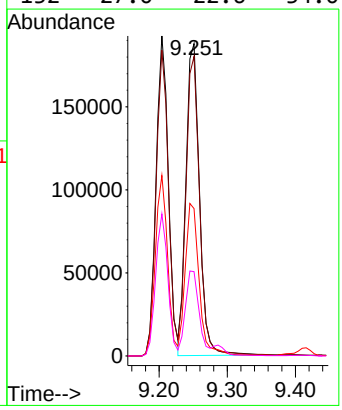


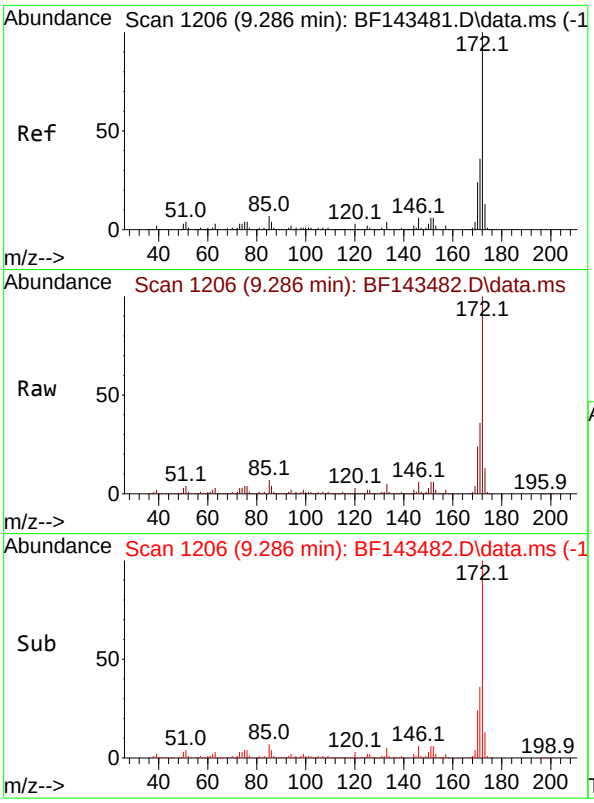


#44
2,4,5-Trichlorophenol
Concen: 49.041 ng
RT: 9.251 min Scan# 1200
Delta R.T. -0.000 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Tgt Ion:196 Resp: 259061

Ion	Ratio	Lower	Upper
196	100		
198	95.9	77.3	115.9
97	47.2	40.0	60.0
132	27.0	22.6	34.0



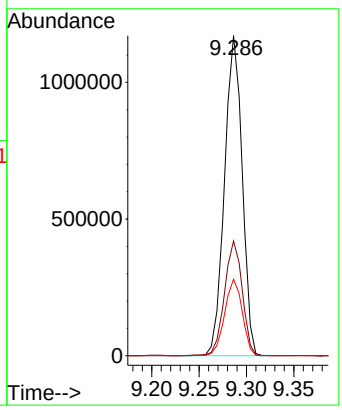


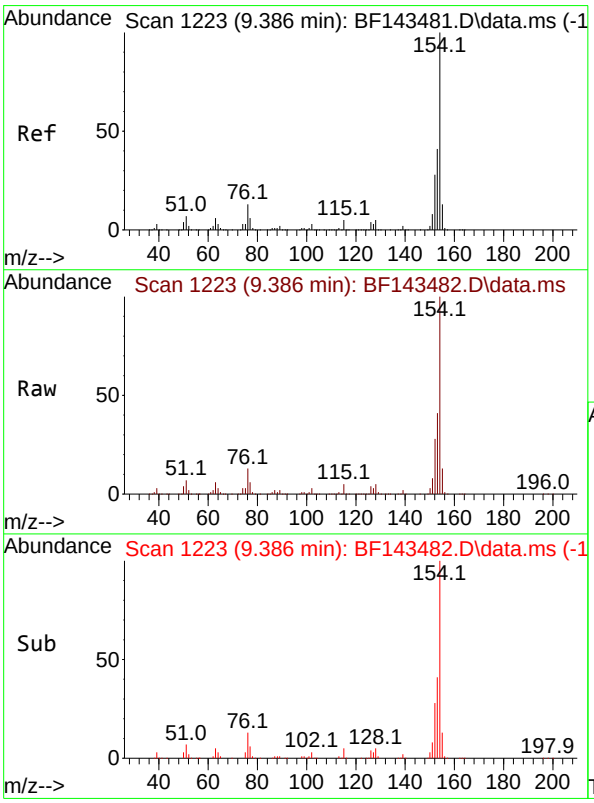
#45
2-Fluorobiphenyl
Concen: 91.359 ng
RT: 9.286 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:172 Resp: 1518897

Ion	Ratio	Lower	Upper
172	100		
171	35.9	28.8	43.2
170	23.9	18.8	28.2

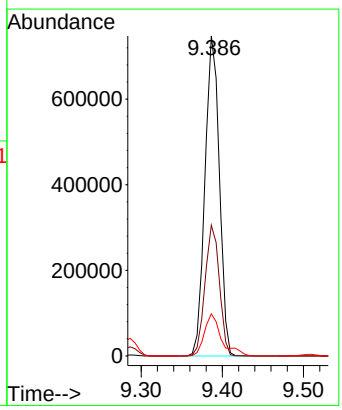


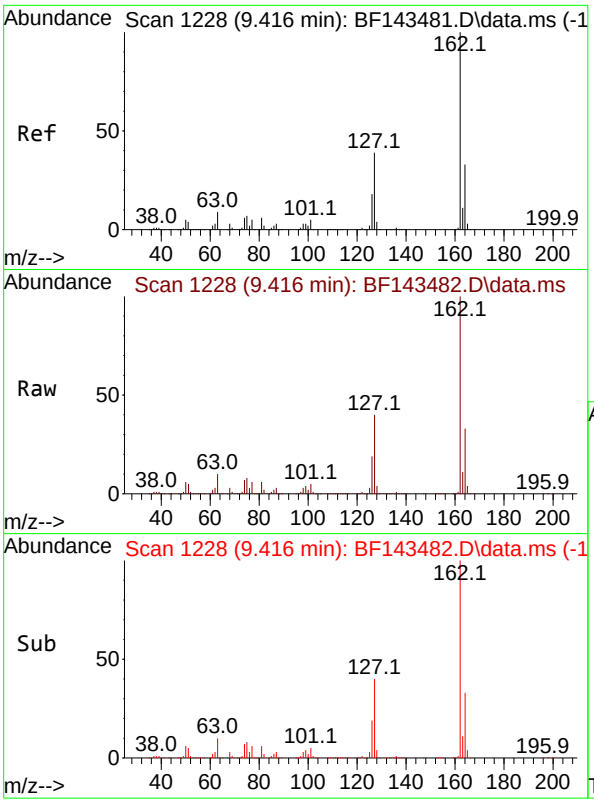


#46
1,1'-Biphenyl
Concen: 47.038 ng
RT: 9.386 min Scan# 1223
Delta R.T. -0.006 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Tgt Ion:154 Resp: 917350

Ion	Ratio	Lower	Upper
154	100		
153	40.9	20.6	60.6
76	13.2	0.0	33.0



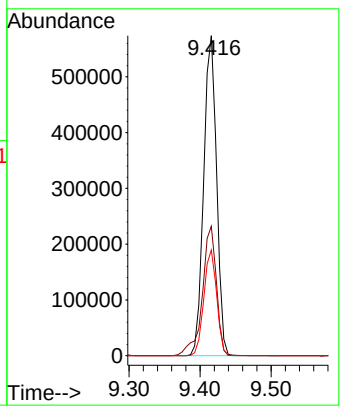


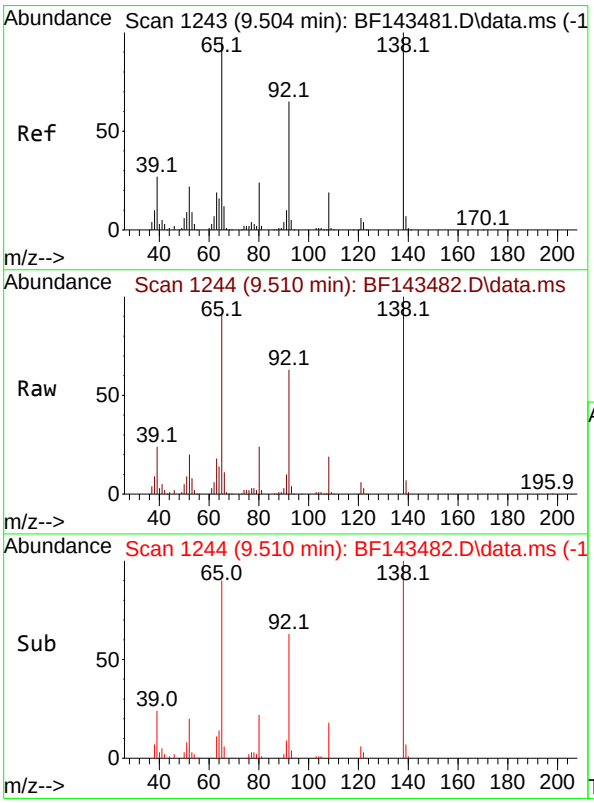
#47
2-Chloronaphthalene
Concen: 47.420 ng
RT: 9.416 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:162 Resp: 725620

Ion	Ratio	Lower	Upper
162	100		
127	40.5	31.8	47.6
164	33.0	26.4	39.6

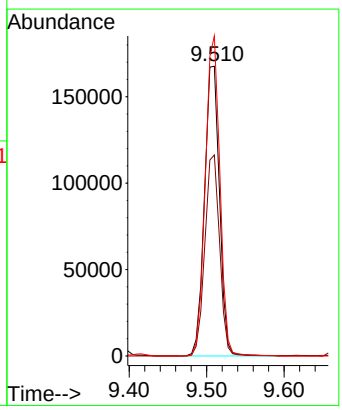


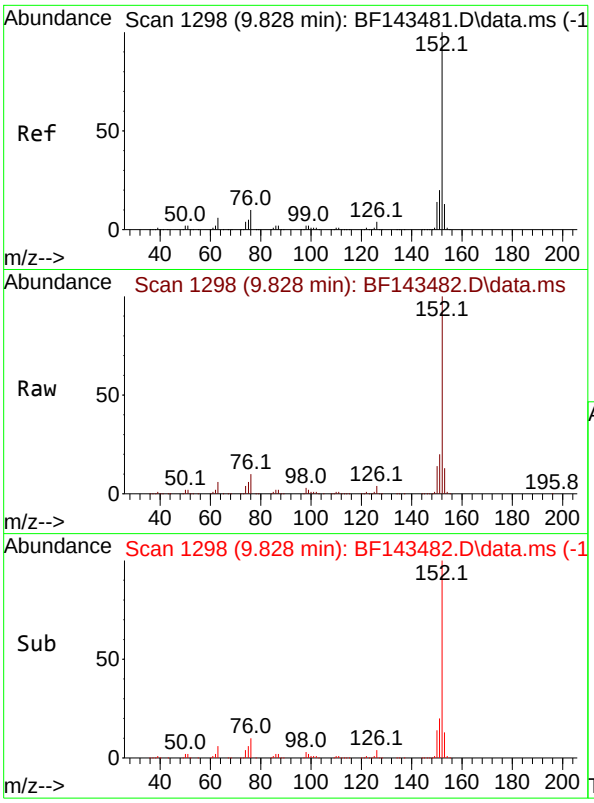


#48
2-Nitroaniline
Concen: 50.489 ng
RT: 9.510 min Scan# 1244
Delta R.T. -0.000 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Tgt Ion: 65 Resp: 226106

Ion	Ratio	Lower	Upper
65	100		
92	69.4	53.8	80.6
138	110.5	82.4	123.6



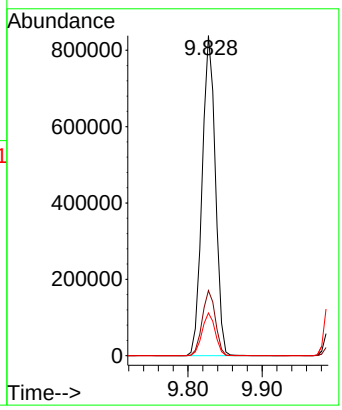


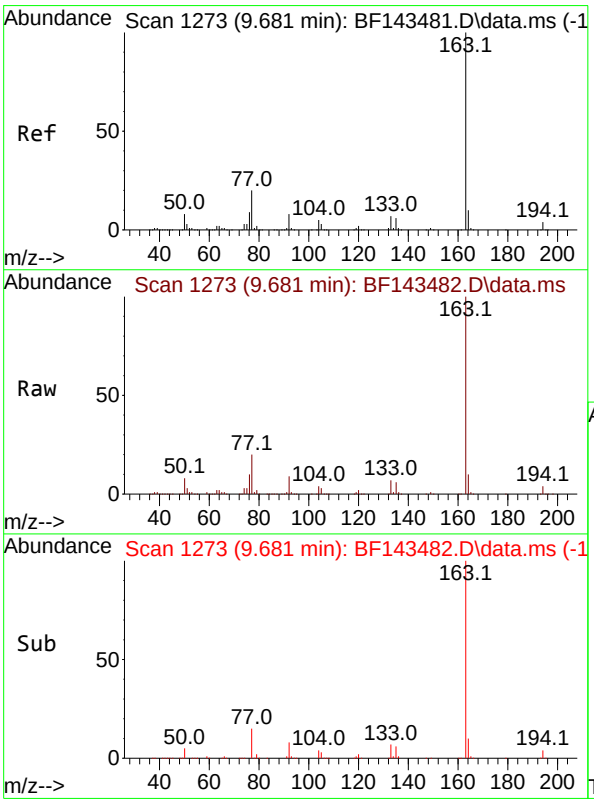
#49
Acenaphthylene
Concen: 47.536 ng
RT: 9.828 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:152 Resp: 1041531

Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.2	24.4
153	13.3	10.6	15.8

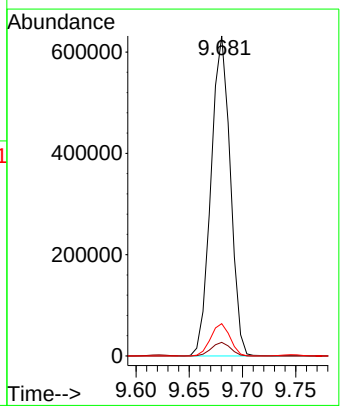


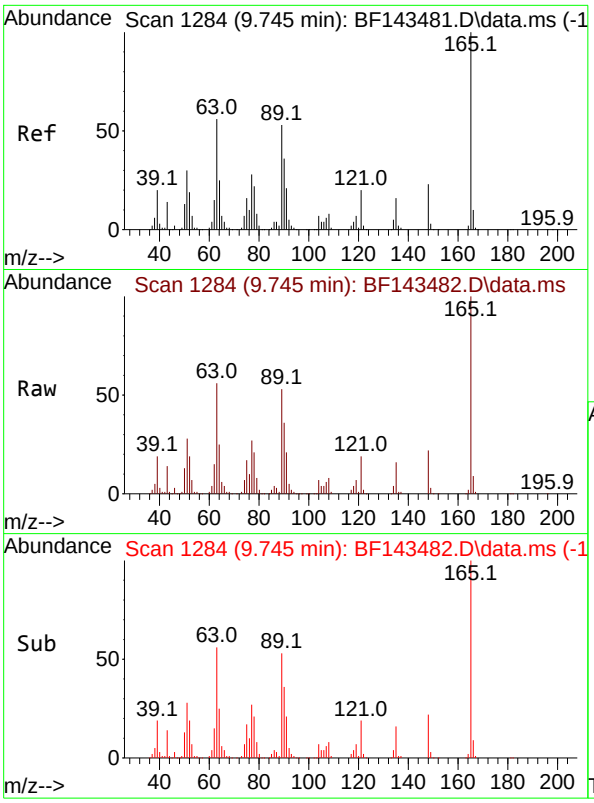


#50
Dimethylphthalate
Concen: 48.090 ng
RT: 9.681 min Scan# 1273
Delta R.T. -0.000 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Tgt Ion:163 Resp: 795814

Ion	Ratio	Lower	Upper
163	100		
194	4.3	3.4	5.0
164	10.1	8.2	12.2



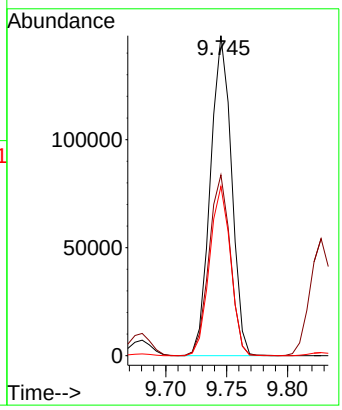


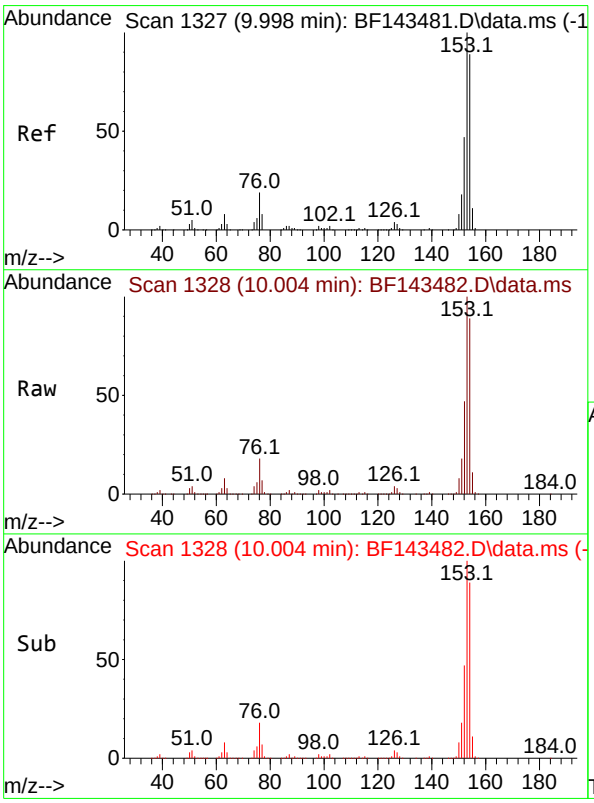
#51
2,6-Dinitrotoluene
Concen: 52.104 ng
RT: 9.745 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:165 Resp: 178703

Ion	Ratio	Lower	Upper
165	100		
63	56.5	45.0	67.6
89	52.9	42.5	63.7

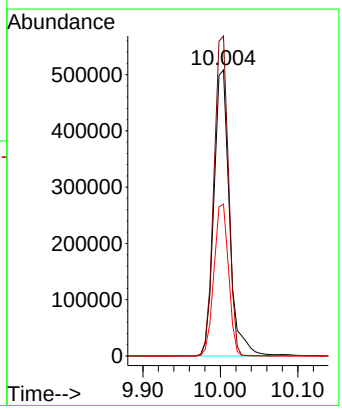


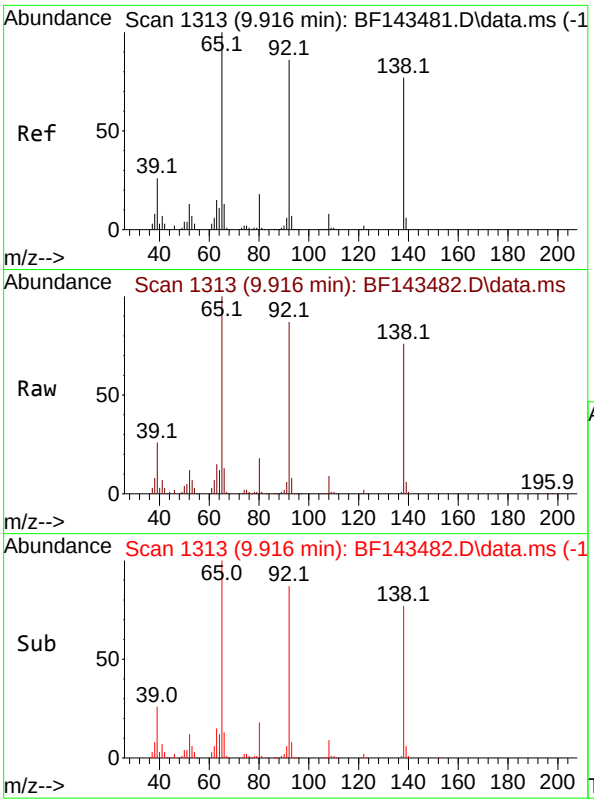


#52
Acenaphthene
Concen: 47.905 ng
RT: 10.004 min Scan# 1328
Delta R.T. -0.000 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Tgt Ion:154 Resp: 712642

Ion	Ratio	Lower	Upper
154	100		
153	111.9	89.5	134.3
152	53.1	42.5	63.7



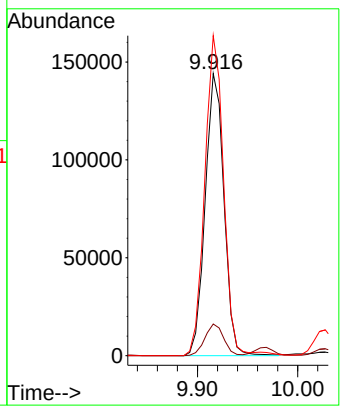


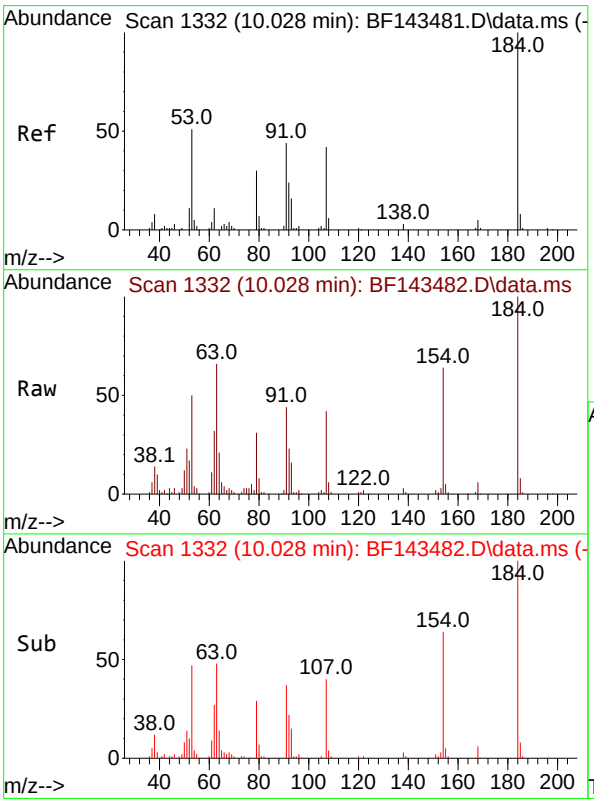
#53
3-Nitroaniline
Concen: 50.620 ng
RT: 9.916 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:138 Resp: 187598

Ion	Ratio	Lower	Upper
138	100		
108	11.2	8.6	13.0
92	113.5	89.8	134.8

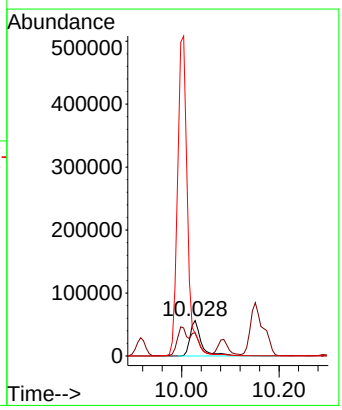


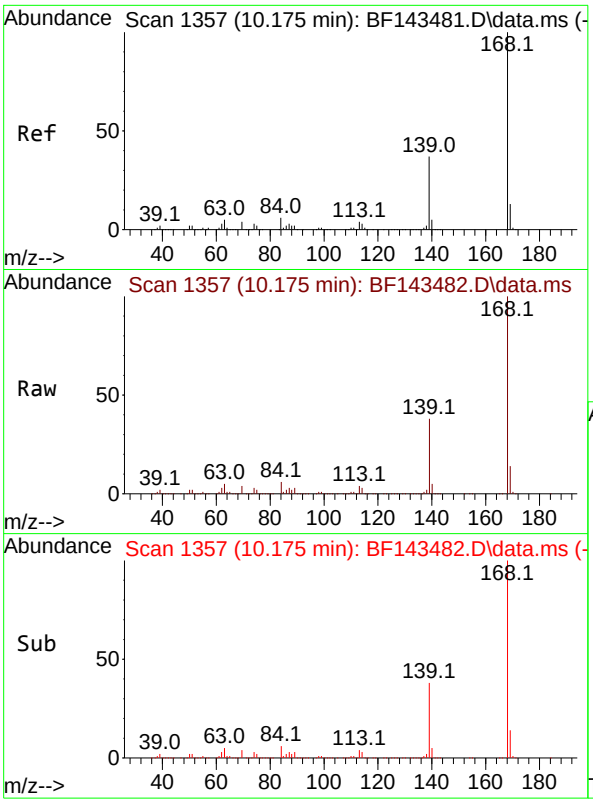


#54
2,4-Dinitrophenol
Concen: 51.384 ng
RT: 10.028 min Scan# 1332
Delta R.T. -0.000 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Tgt Ion:184 Resp: 90529

Ion	Ratio	Lower	Upper
184	100		
63	65.5	52.6	78.8
154	63.7	51.0	76.4



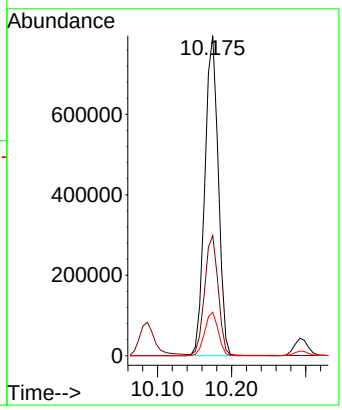


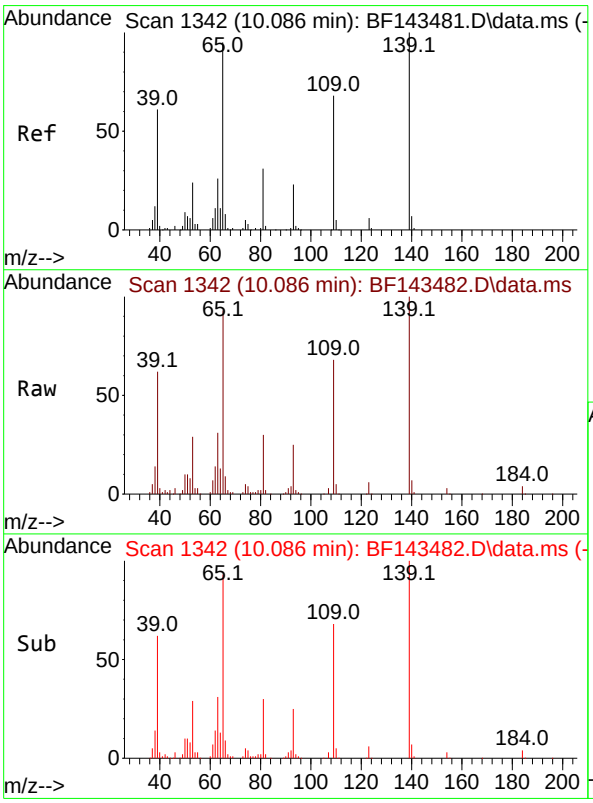
#55
Dibenzofuran
Concen: 47.313 ng
RT: 10.175 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:168 Resp: 1003468

Ion	Ratio	Lower	Upper
168	100		
139	37.5	29.8	44.6
169	13.6	10.8	16.2

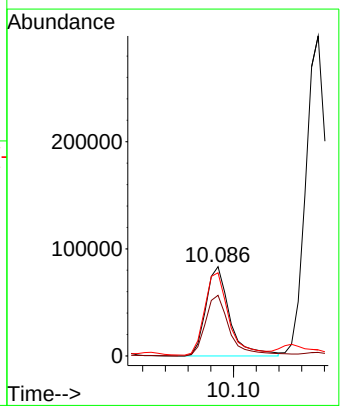


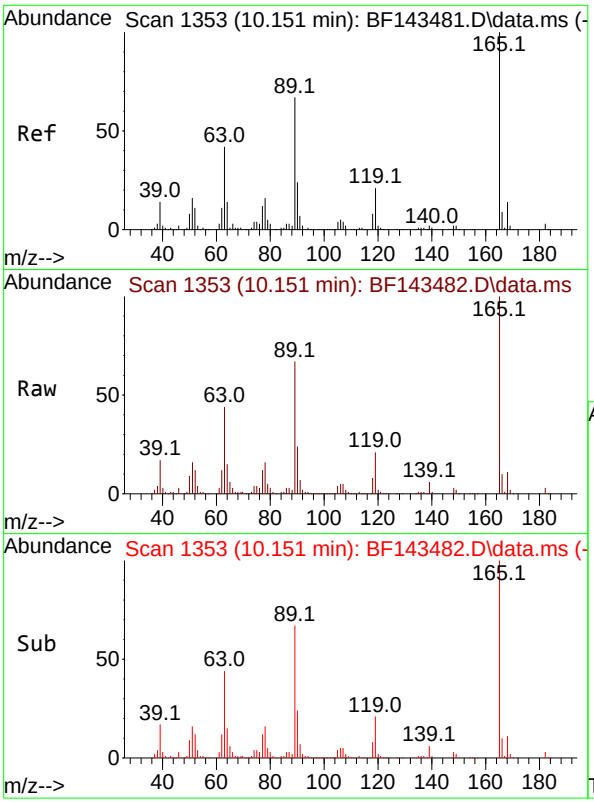


#56
4-Nitrophenol
Concen: 54.991 ng
RT: 10.086 min Scan# 1342
Delta R.T. 0.000 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Tgt Ion:139 Resp: 121261

Ion	Ratio	Lower	Upper
139	100		
109	68.0	48.2	88.2
65	93.3	75.8	115.8



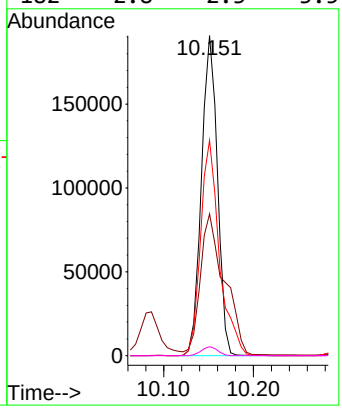


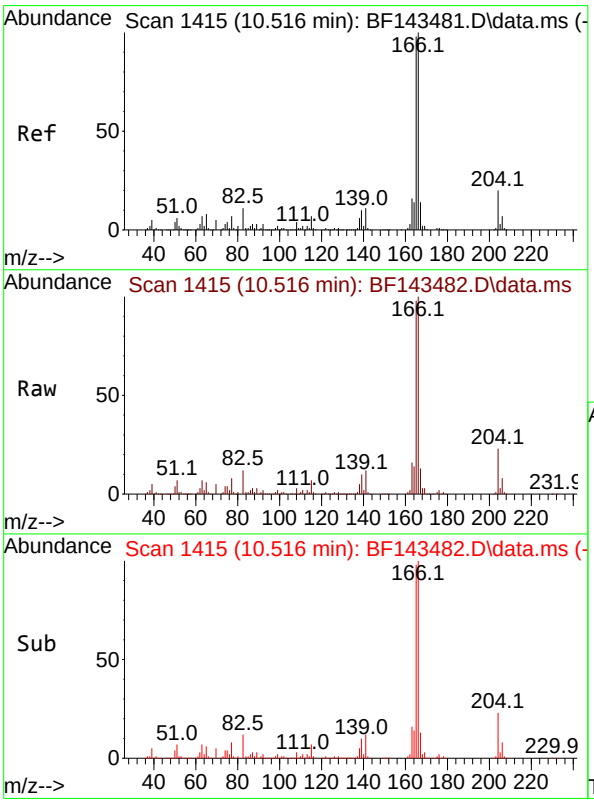
#57
2,4-Dinitrotoluene
Concen: 51.542 ng
RT: 10.151 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:165 Resp: 236039

Ion	Ratio	Lower	Upper
165	100		
63	44.3	34.9	52.3
89	67.3	53.3	79.9
182	2.8	2.3	3.5

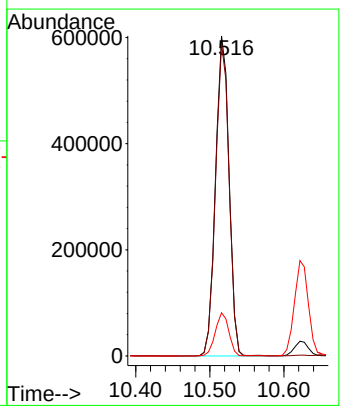


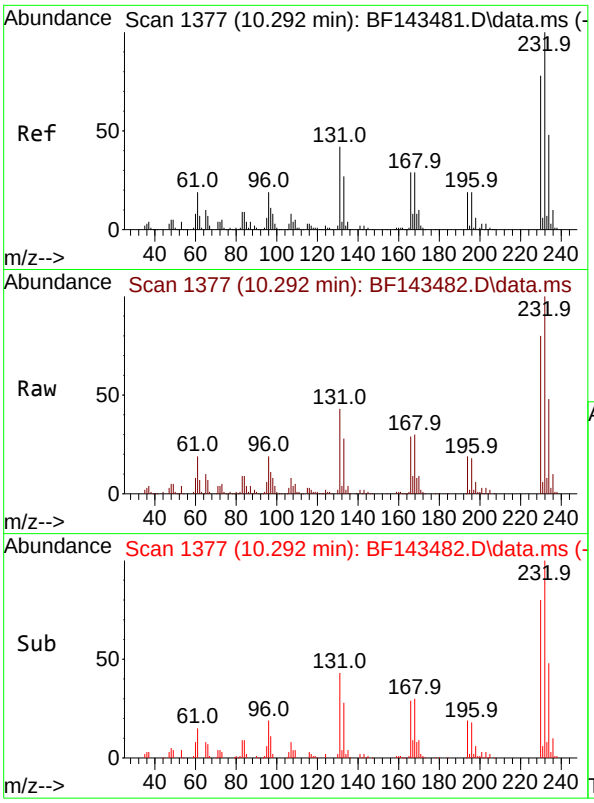


#58
Fluorene
Concen: 46.763 ng
RT: 10.516 min Scan# 1415
Delta R.T. -0.006 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Tgt Ion:166 Resp: 763347

Ion	Ratio	Lower	Upper
166	100		
165	97.6	78.3	117.5
167	13.5	11.0	16.4



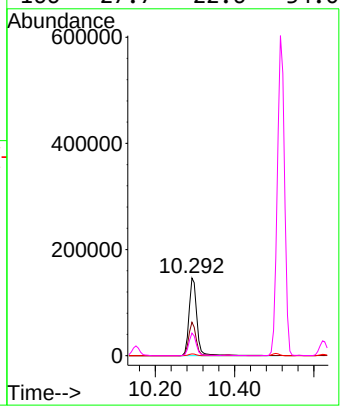


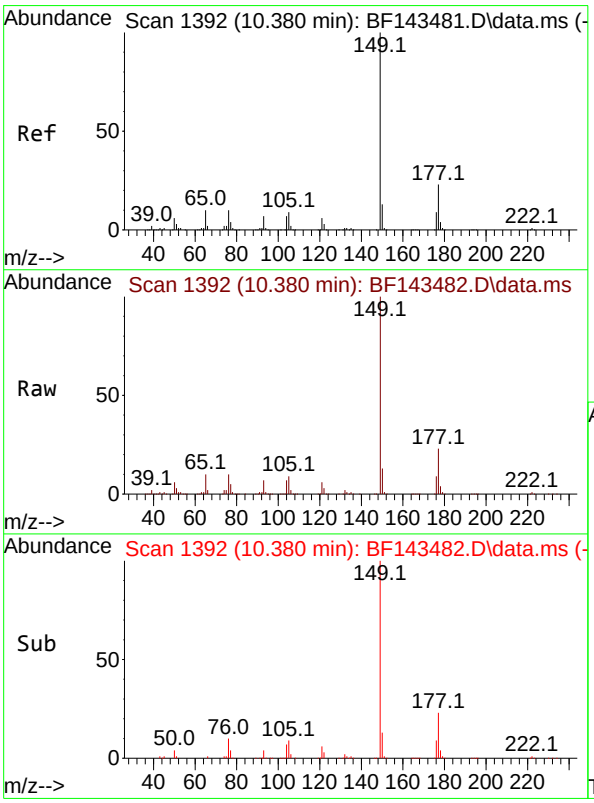
#59
2,3,4,6-Tetrachlorophenol
Concen: 51.483 ng
RT: 10.292 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:232 Resp: 202049

Ion	Ratio	Lower	Upper
232	100		
131	41.0	32.7	49.1
130	2.1	1.6	2.4
166	27.7	22.6	34.0

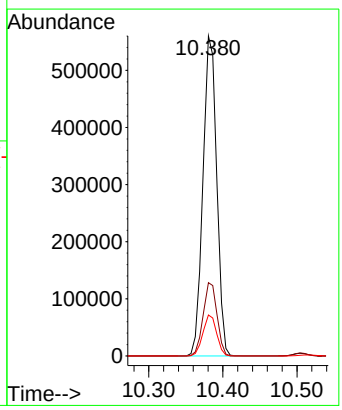


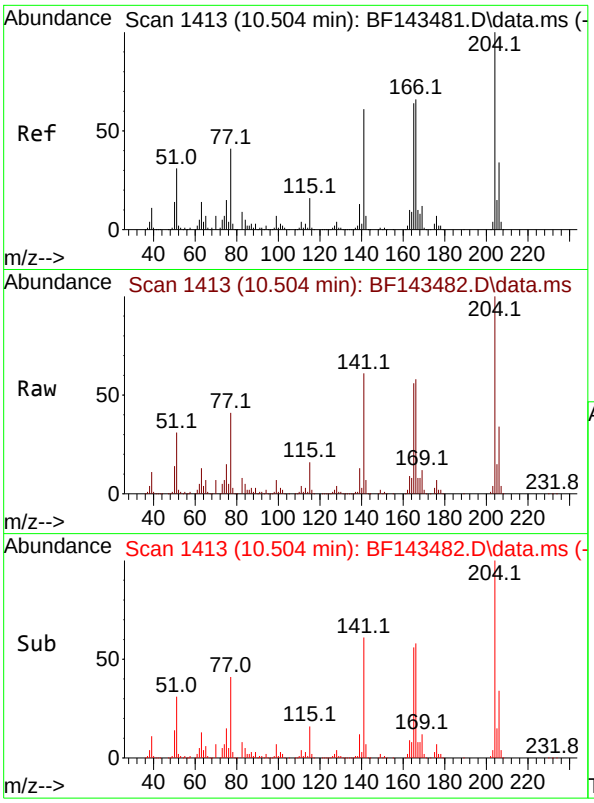


#60
Diethylphthalate
Concen: 48.756 ng
RT: 10.380 min Scan# 1392
Delta R.T. -0.006 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Tgt Ion:149 Resp: 723386

Ion	Ratio	Lower	Upper
149	100		
177	22.9	18.3	27.5
150	12.8	10.3	15.5



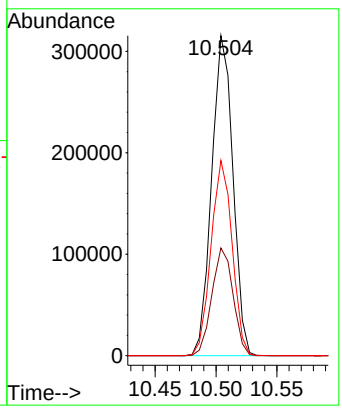


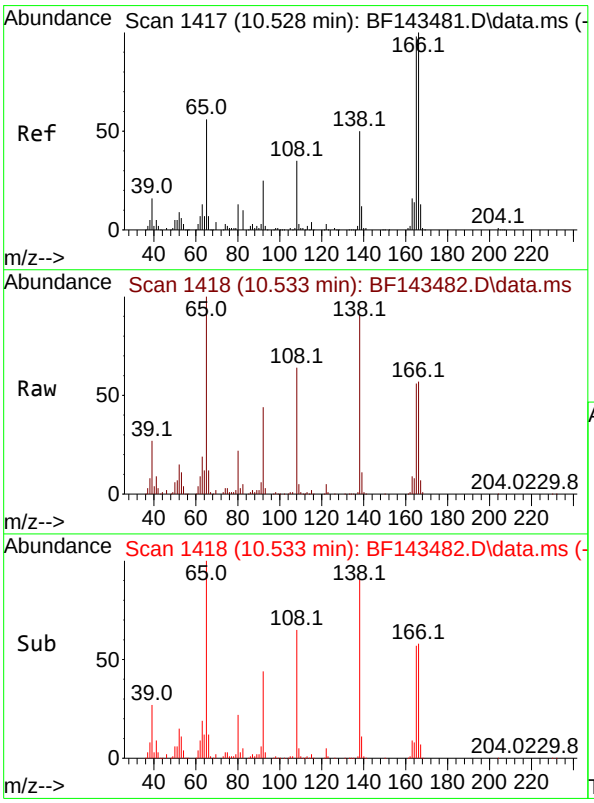
#61
4-Chlorophenyl-phenylether
Concen: 46.985 ng
RT: 10.504 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:204 Resp: 383570

Ion	Ratio	Lower	Upper
204	100		
206	33.6	27.0	40.4
141	61.0	48.7	73.1

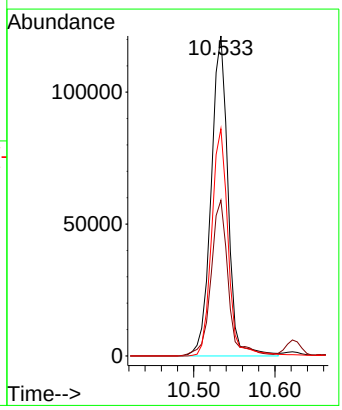


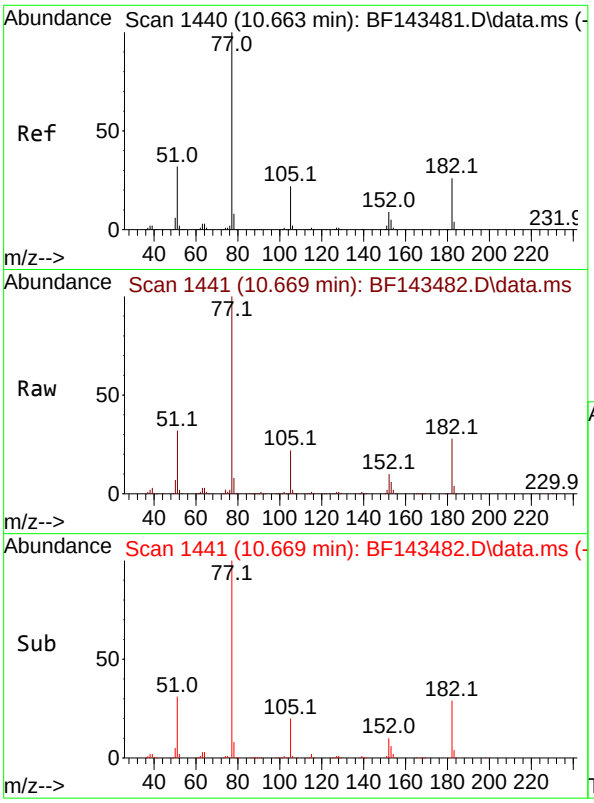


#62
4-Nitroaniline
Concen: 51.418 ng
RT: 10.533 min Scan# 1418
Delta R.T. -0.006 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Tgt Ion:138 Resp: 175033

Ion	Ratio	Lower	Upper
138	100		
92	48.7	29.3	69.3
108	71.0	50.7	90.7



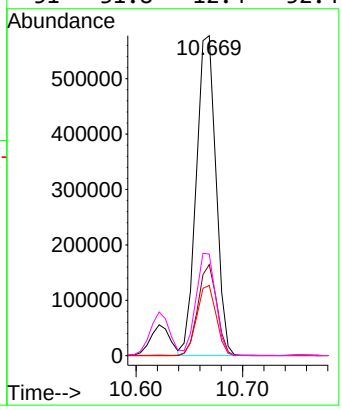


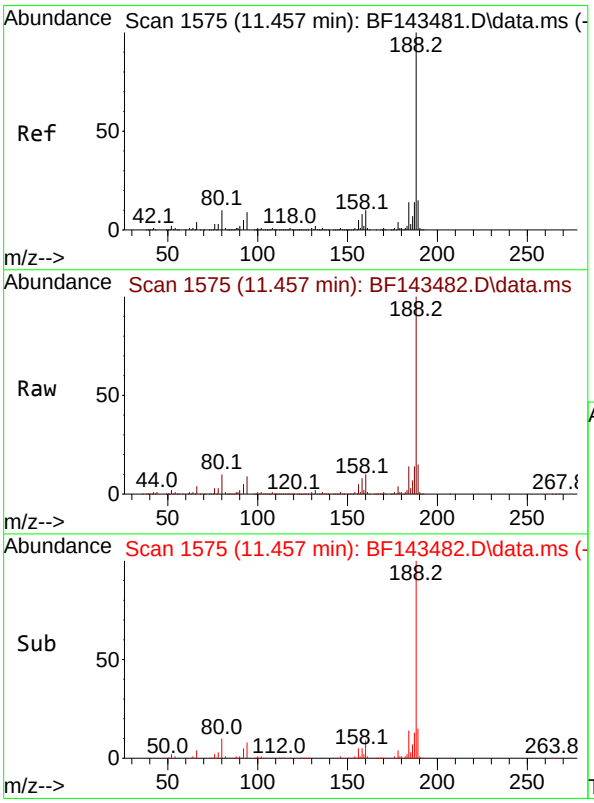
#63
Azobenzene
Concen: 48.247 ng
RT: 10.669 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 77 Resp: 742238

Ion	Ratio	Lower	Upper
77	100		
182	28.4	6.2	46.2
105	21.9	2.2	42.2
51	31.8	12.4	52.4

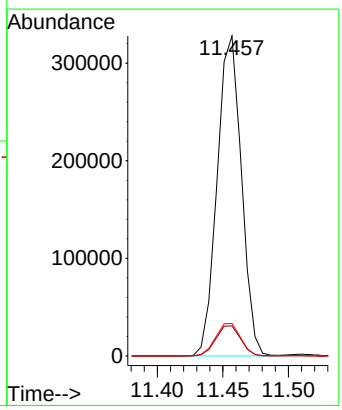


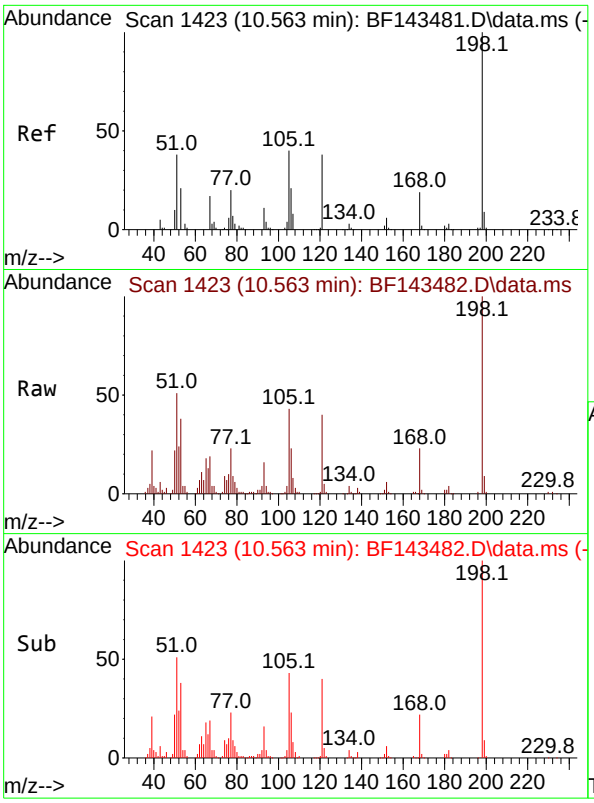


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.457 min Scan# 1575
Delta R.T. -0.000 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Tgt Ion:188 Resp: 422398

Ion	Ratio	Lower	Upper
188	100		
94	9.4	7.4	11.2
80	10.1	8.2	12.4



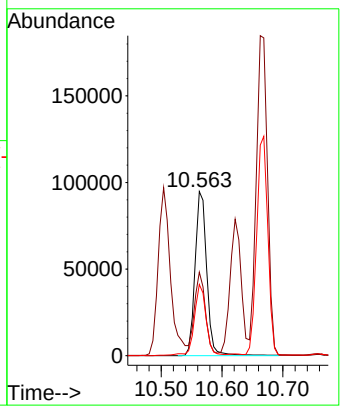


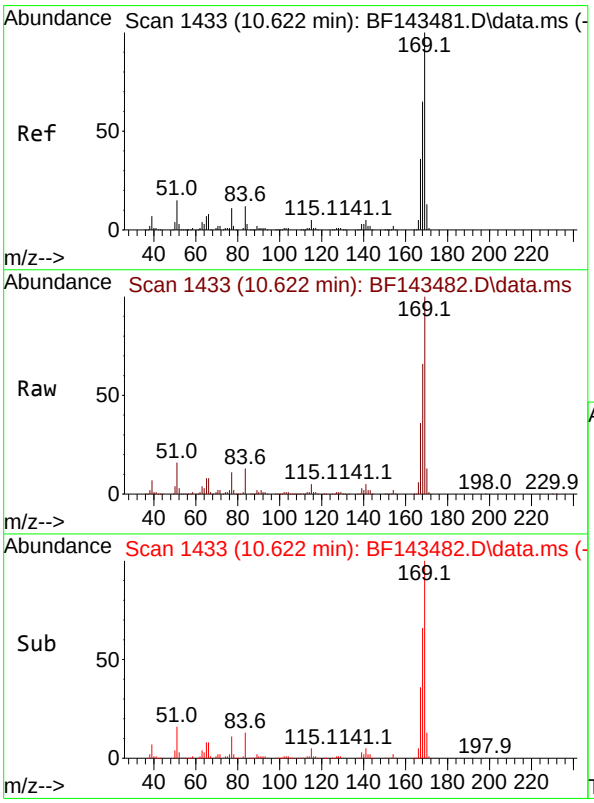
#65
4,6-Dinitro-2-methylphenol
Concen: 53.128 ng
RT: 10.563 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:198 Resp: 126533

Ion	Ratio	Lower	Upper
198	100		
51	50.8	29.6	69.6
105	43.4	21.5	61.5

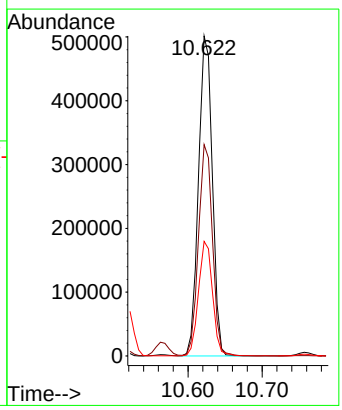


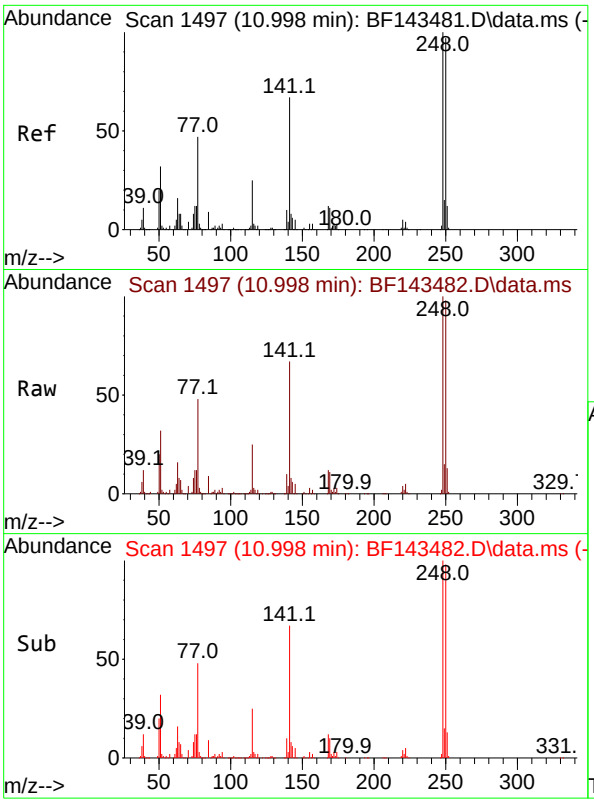


#66
n-Nitrosodiphenylamine
Concen: 47.789 ng
RT: 10.622 min Scan# 1433
Delta R.T. -0.006 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Tgt Ion:169 Resp: 649619

Ion	Ratio	Lower	Upper
169	100		
168	66.0	52.4	78.6
167	35.8	28.9	43.3



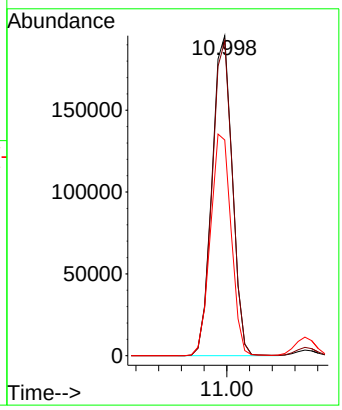


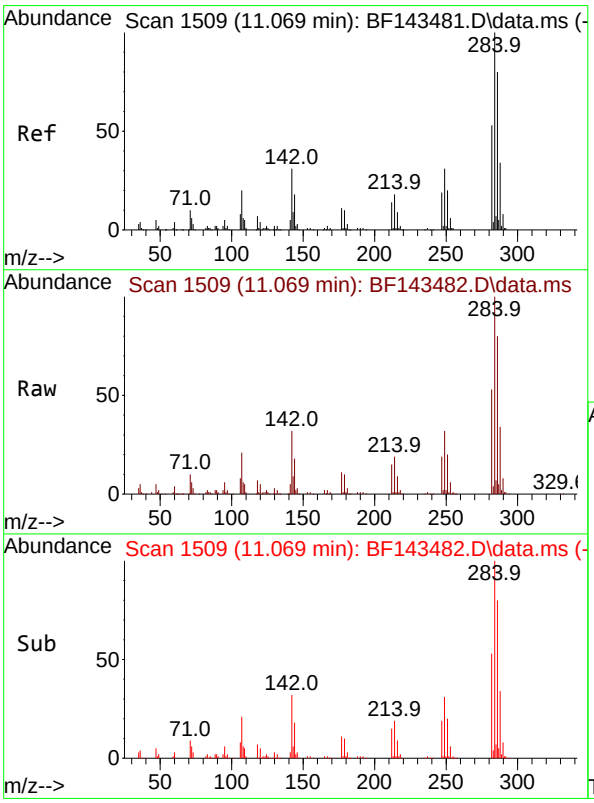
#67
4-Bromophenyl-phenylether
Concen: 48.112 ng
RT: 10.998 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:248 Resp: 242477

Ion	Ratio	Lower	Upper
248	100		
250	98.4	77.8	116.8
141	67.4	54.0	81.0

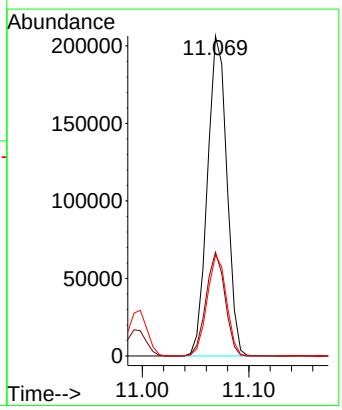


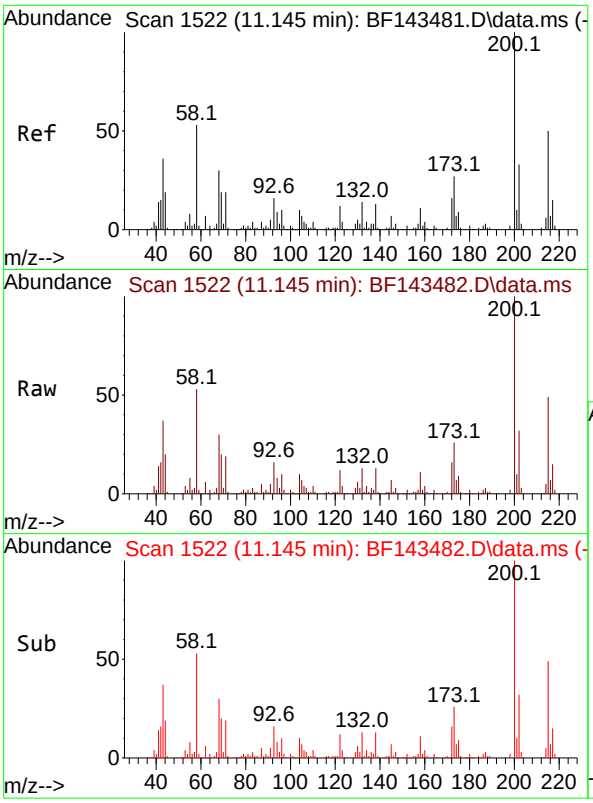


#68
Hexachlorobenzene
Concen: 48.206 ng
RT: 11.069 min Scan# 1509
Delta R.T. -0.006 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Tgt Ion:284 Resp: 261883

Ion	Ratio	Lower	Upper
284	100		
142	32.4	24.4	36.6
249	31.6	25.0	37.6



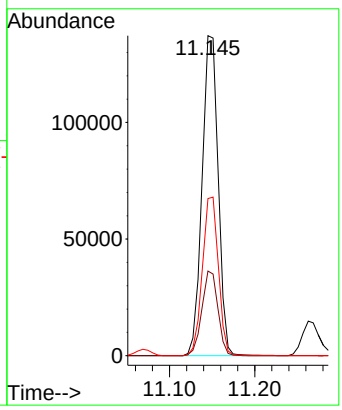


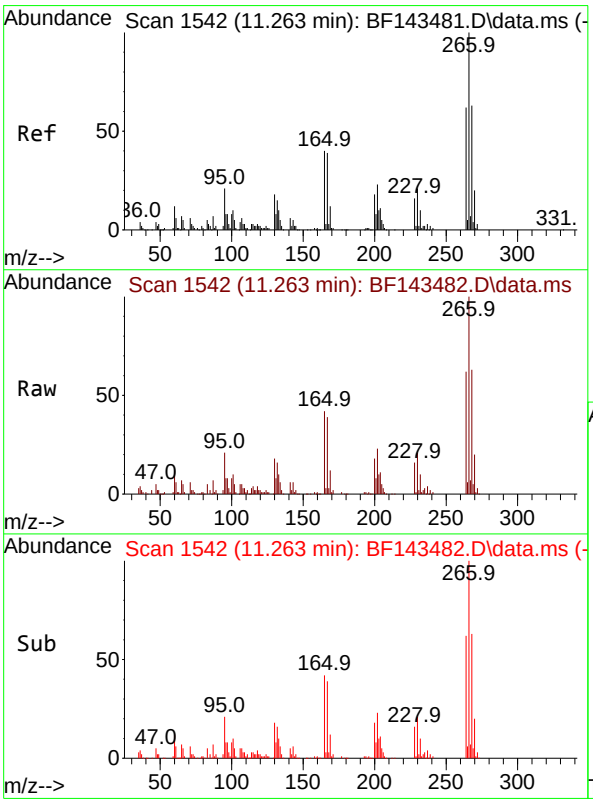
#69
Atrazine
Concen: 51.394 ng
RT: 11.145 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:200 Resp: 180342

Ion	Ratio	Lower	Upper
200	100		
173	26.5	6.9	46.9
215	49.1	30.0	70.0

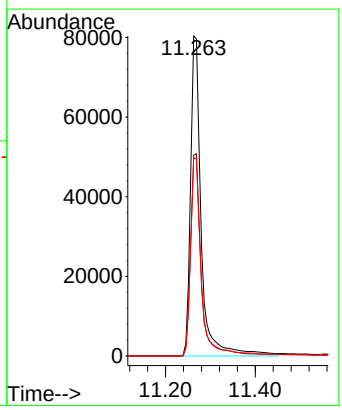


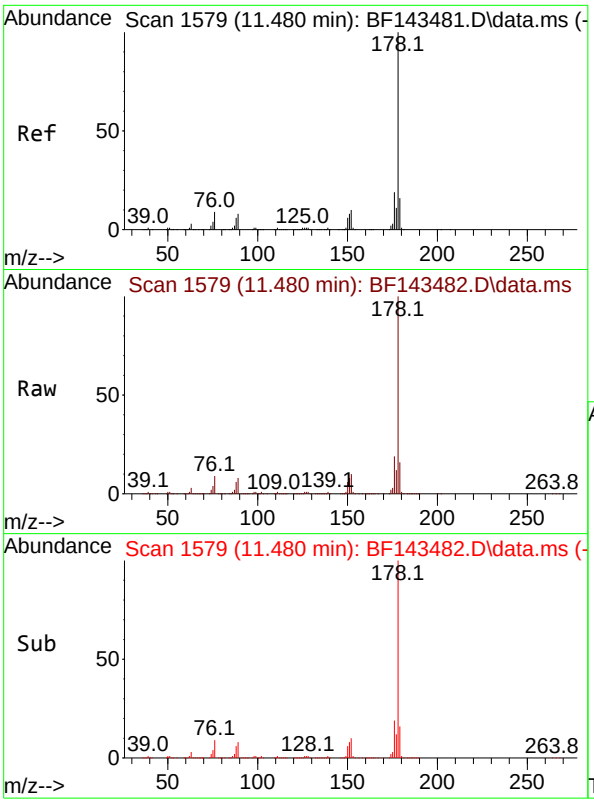


#70
Pentachlorophenol
Concen: 53.767 ng
RT: 11.263 min Scan# 1542
Delta R.T. -0.006 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Tgt Ion:266 Resp: 133776

Ion	Ratio	Lower	Upper
266	100		
268	62.8	50.5	75.7
264	62.0	49.8	74.8



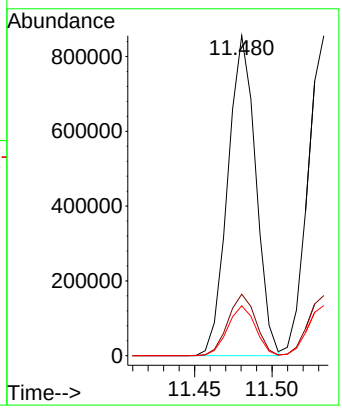


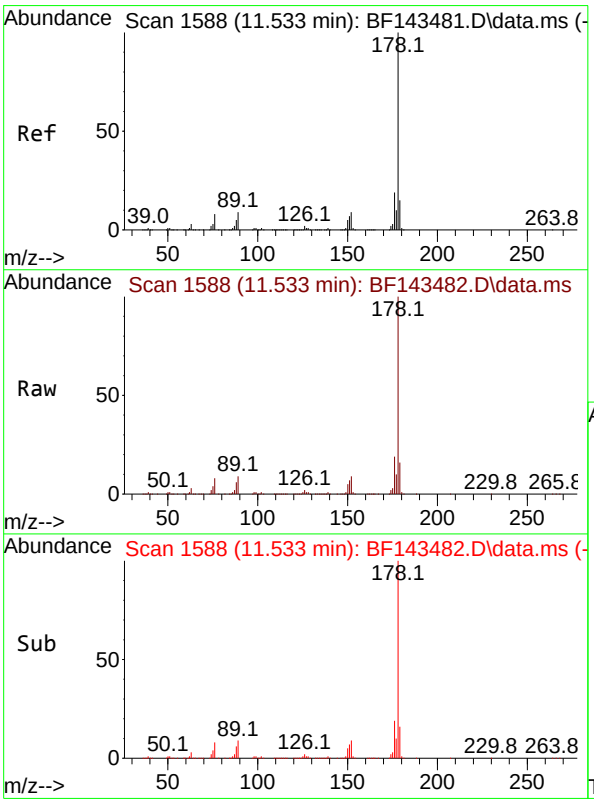
#71
Phenanthrene
Concen: 47.383 ng
RT: 11.480 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:178 Resp: 1071808

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.5	23.3
179	15.6	12.5	18.7

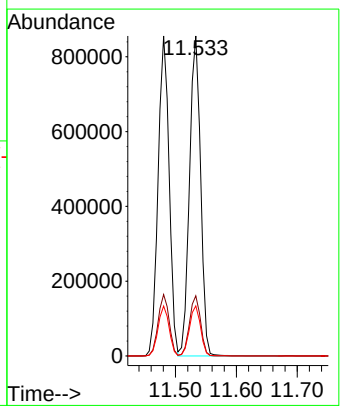


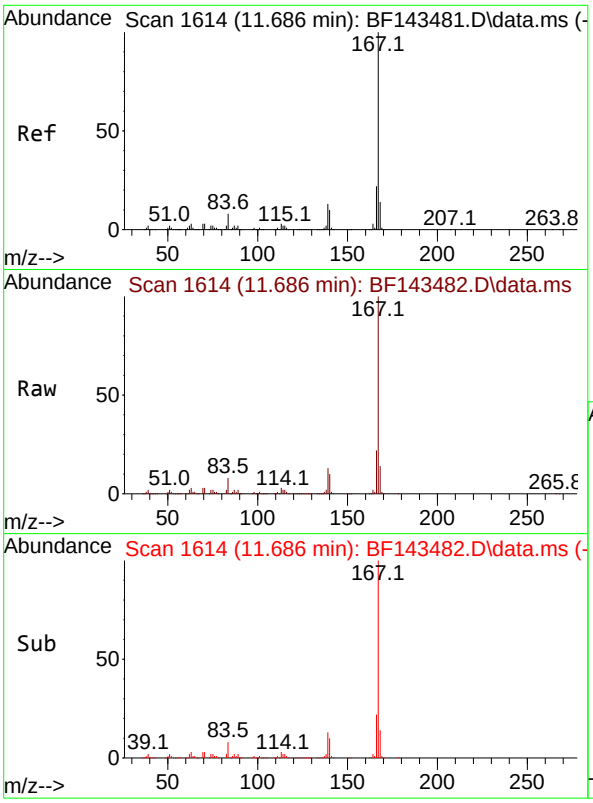


#72
Anthracene
Concen: 47.117 ng
RT: 11.533 min Scan# 1588
Delta R.T. -0.000 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Tgt Ion:178 Resp: 1079686

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.0	22.4
179	15.7	12.3	18.5



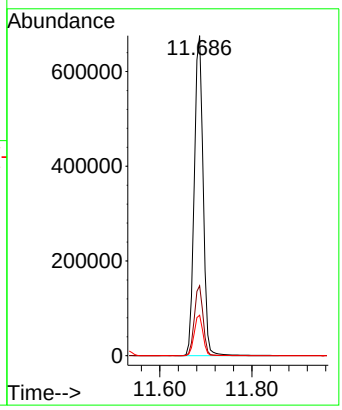


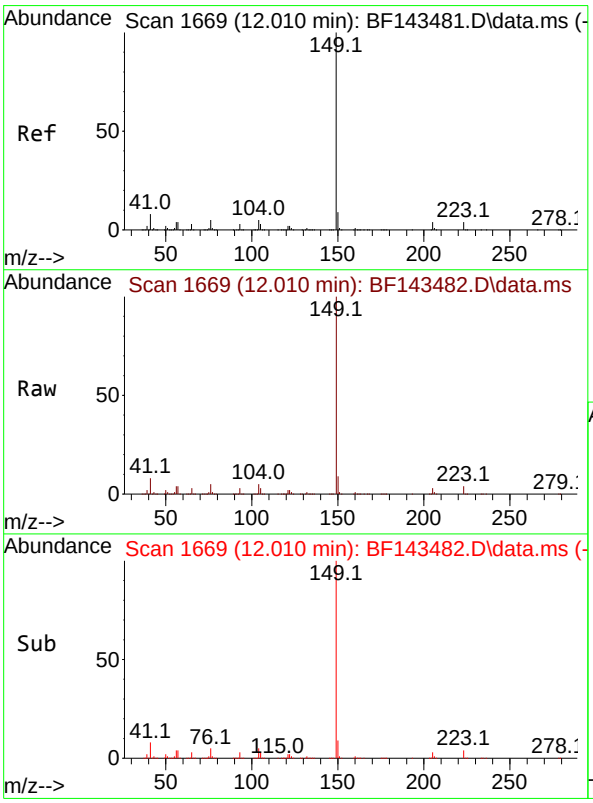
#73
Carbazole
Concen: 47.738 ng
RT: 11.686 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:167 Resp: 896352

Ion	Ratio	Lower	Upper
167	100		
166	21.9	17.3	25.9
139	12.7	10.0	15.0

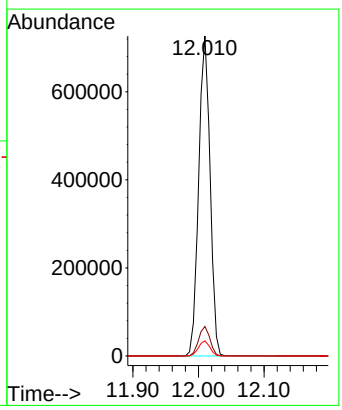


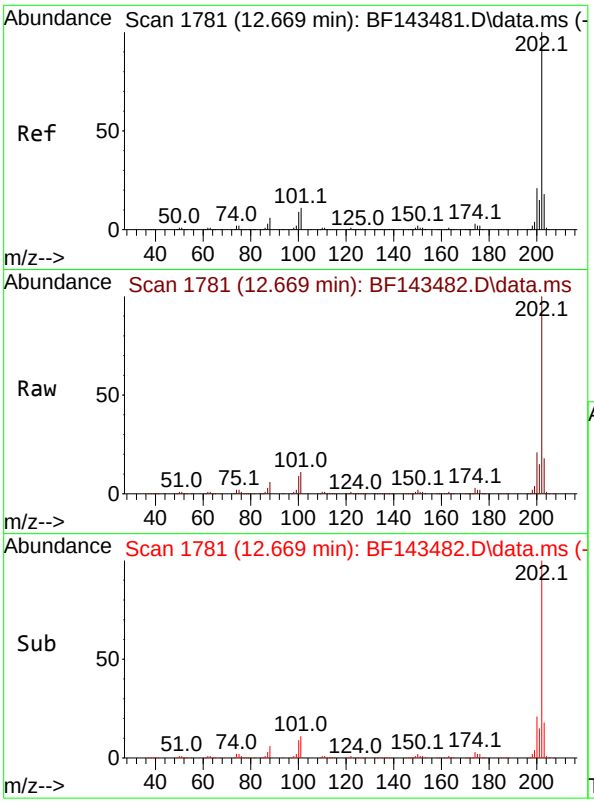


#74
Di-n-butylphthalate
Concen: 50.228 ng
RT: 12.010 min Scan# 1669
Delta R.T. -0.000 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Tgt Ion:149 Resp: 879812

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.2	10.8
104	4.7	3.6	5.4



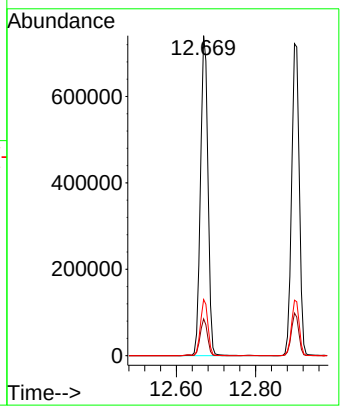


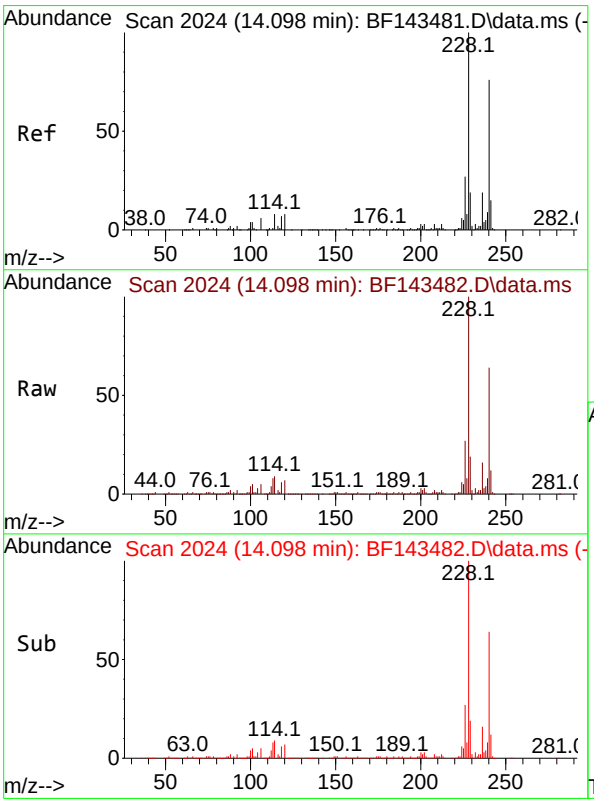
#75
Fluoranthene
Concen: 47.536 ng
RT: 12.669 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:202 Resp: 964831

Ion	Ratio	Lower	Upper
202	100		
101	11.5	0.0	31.3
203	17.6	0.0	37.9

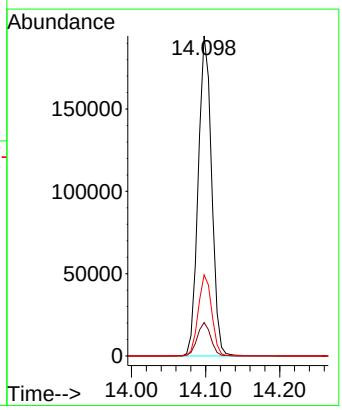


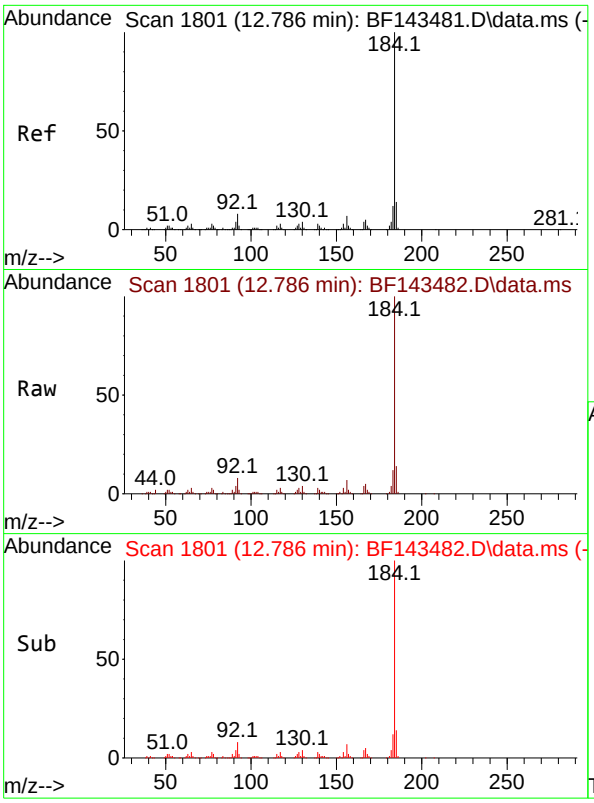


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.098 min Scan# 2024
Delta R.T. -0.006 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Tgt Ion:240 Resp: 244315

Ion	Ratio	Lower	Upper
240	100		
120	10.5	8.6	12.8
236	25.3	20.4	30.6



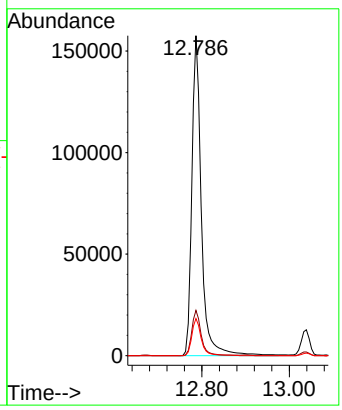


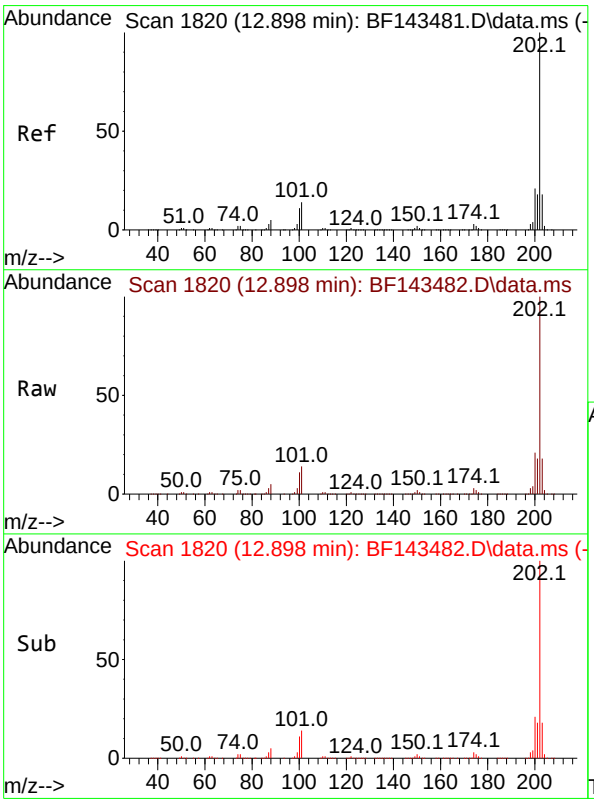
#77
Benzidine
Concen: 40.122 ng
RT: 12.786 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:184 Resp: 238772

Ion	Ratio	Lower	Upper
184	100		
185	14.1	11.3	16.9
183	11.6	9.5	14.3

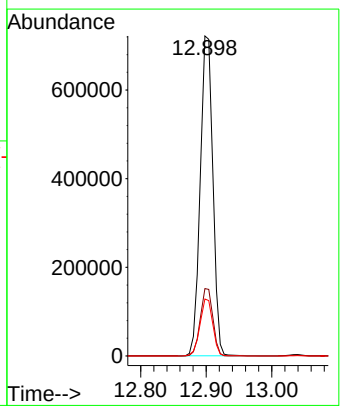


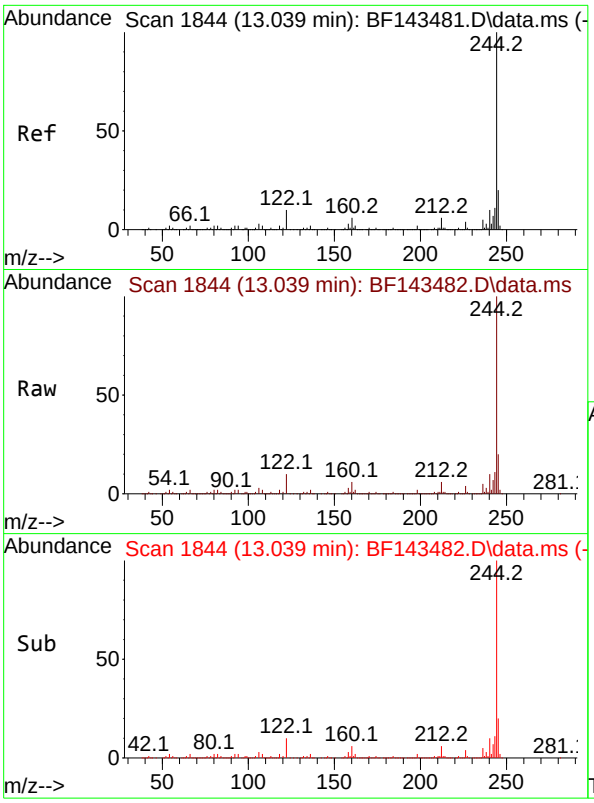


#78
Pyrene
Concen: 48.316 ng
RT: 12.898 min Scan# 1820
Delta R.T. -0.006 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Tgt Ion:202 Resp: 970991

Ion	Ratio	Lower	Upper
202	100		
200	21.0	17.0	25.4
203	17.8	14.3	21.5



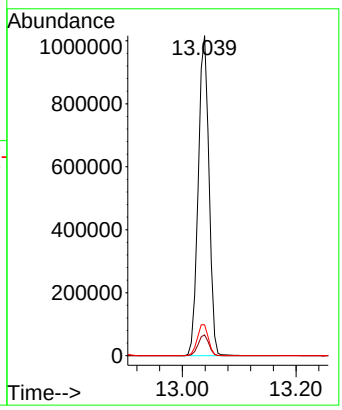


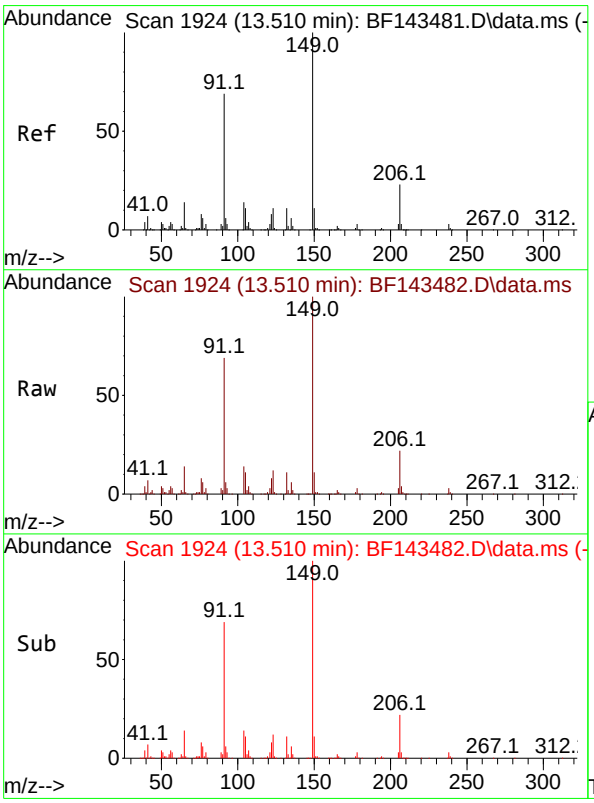
#79
Terphenyl-d14
Concen: 95.465 ng
RT: 13.039 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:244 Resp: 1336561

Ion	Ratio	Lower	Upper
244	100		
212	6.5	5.2	7.8
122	9.7	7.9	11.9

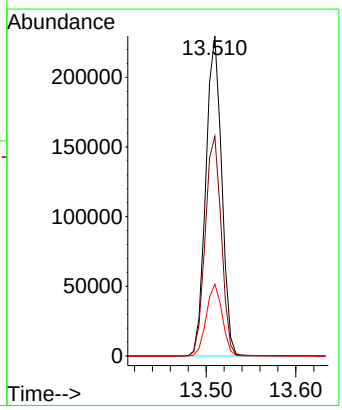


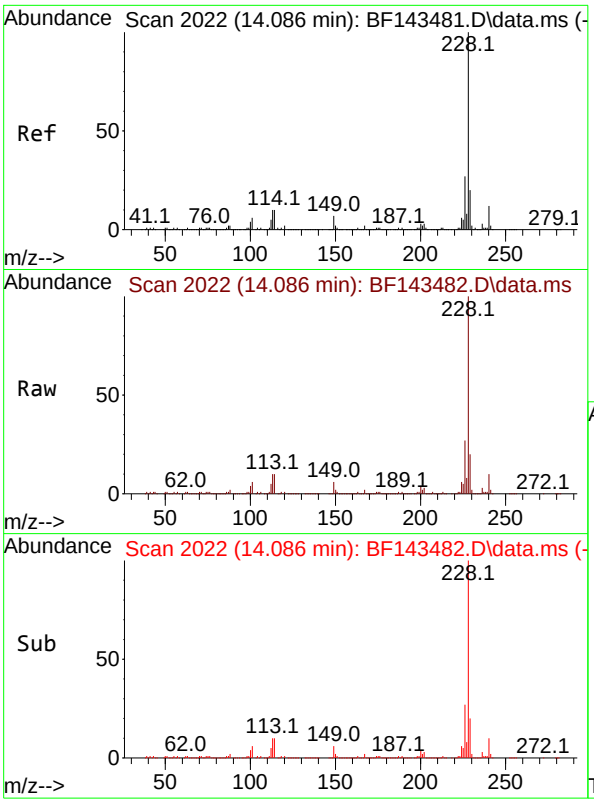


#80
Butylbenzylphthalate
Concen: 51.304 ng
RT: 13.510 min Scan# 1924
Delta R.T. -0.000 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Tgt Ion:149 Resp: 281664

Ion	Ratio	Lower	Upper
149	100		
91	68.7	55.3	82.9
206	22.5	18.2	27.4



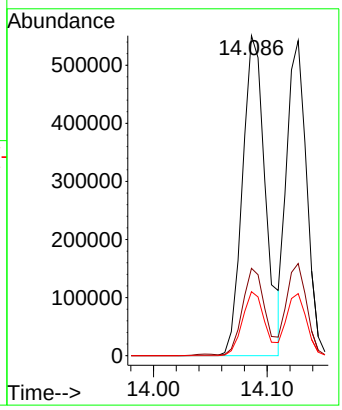


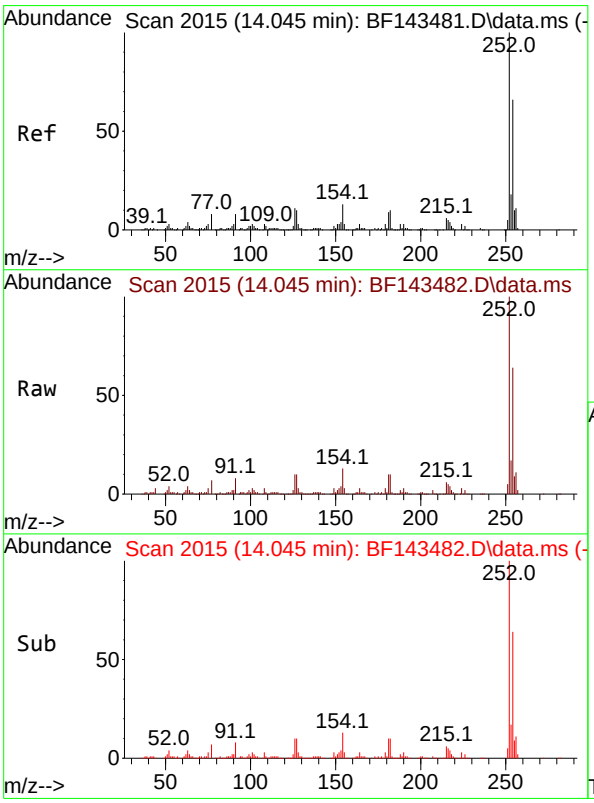
#81
Benzo(a)anthracene
Concen: 49.172 ng
RT: 14.086 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:228 Resp: 773434

Ion	Ratio	Lower	Upper
228	100		
226	27.3	21.7	32.5
229	20.0	15.7	23.5

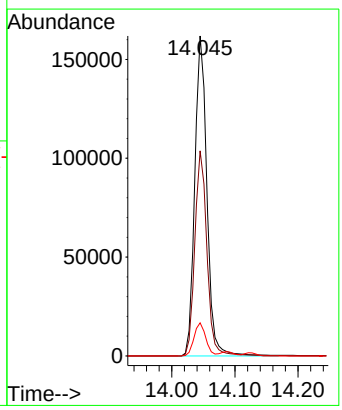


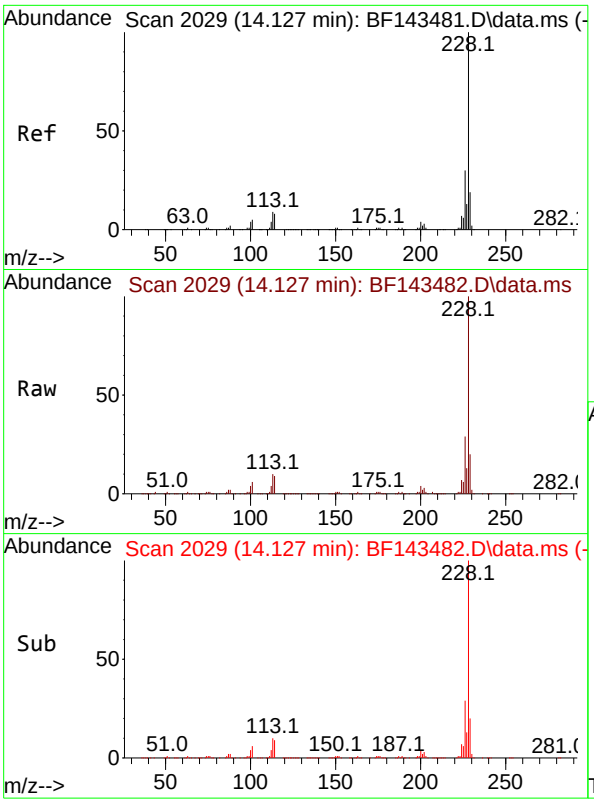


#82
3,3'-Dichlorobenzidine
Concen: 47.957 ng
RT: 14.045 min Scan# 2015
Delta R.T. -0.000 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Tgt Ion:252 Resp: 216024

Ion	Ratio	Lower	Upper
252	100		
254	64.1	52.6	79.0
126	10.3	8.7	13.1



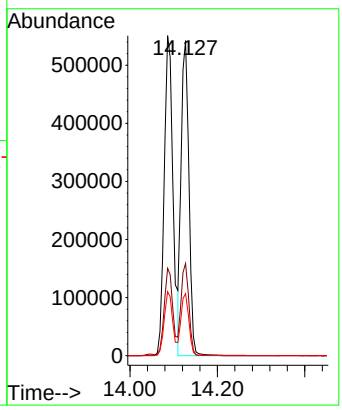


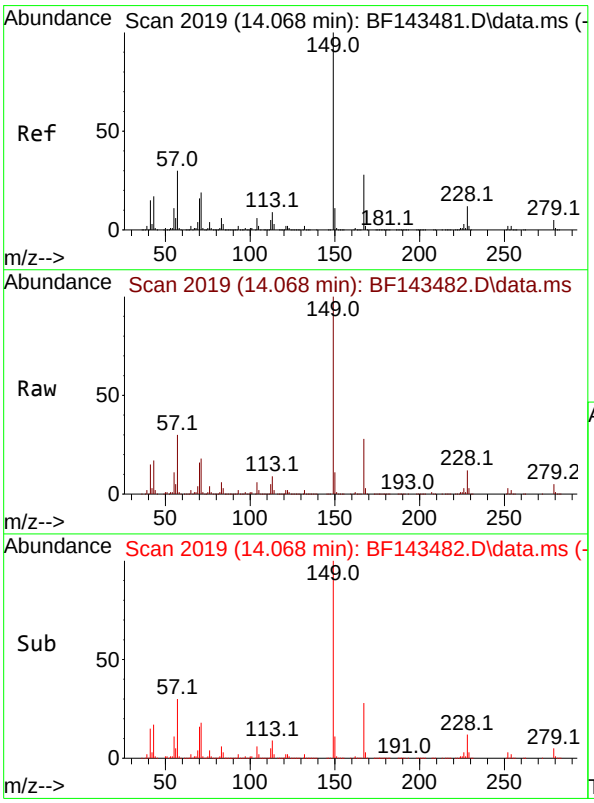
#83
Chrysene
Concen: 47.050 ng
RT: 14.127 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:228 Resp: 665070

Ion	Ratio	Lower	Upper
228	100		
226	29.2	23.7	35.5
229	19.7	15.7	23.5

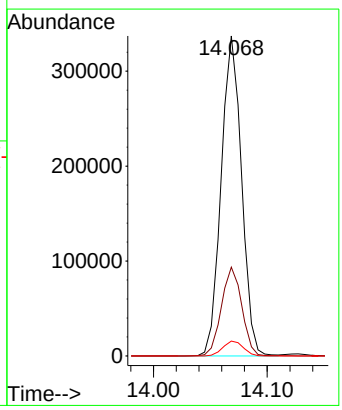


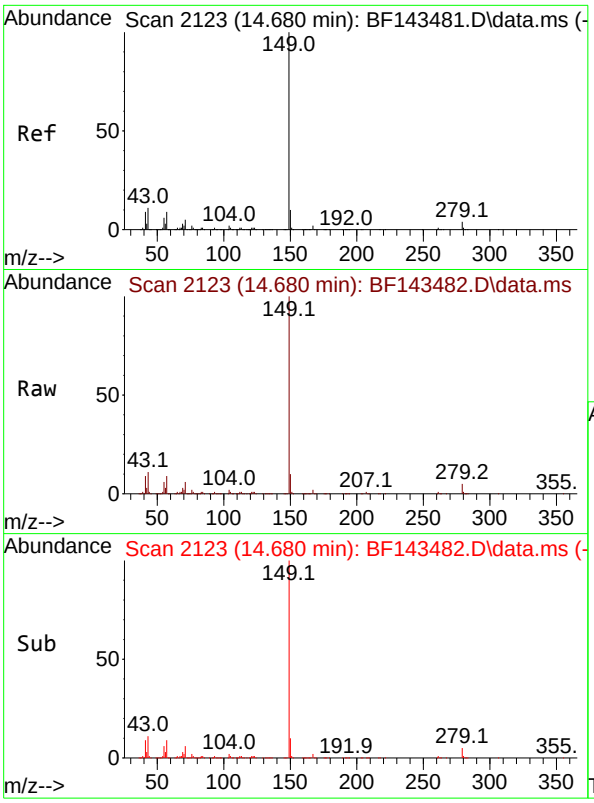


#84
Bis(2-ethylhexyl)phthalate
Concen: 50.372 ng
RT: 14.068 min Scan# 2019
Delta R.T. -0.000 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Tgt Ion:149 Resp: 421199

Ion	Ratio	Lower	Upper
149	100		
167	27.8	22.2	33.2
279	4.7	3.6	5.4



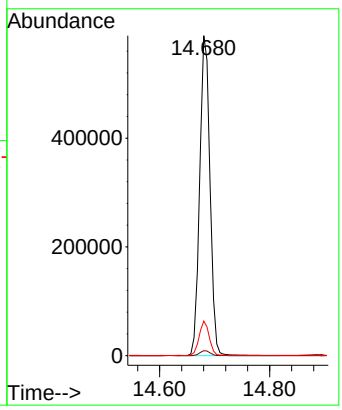


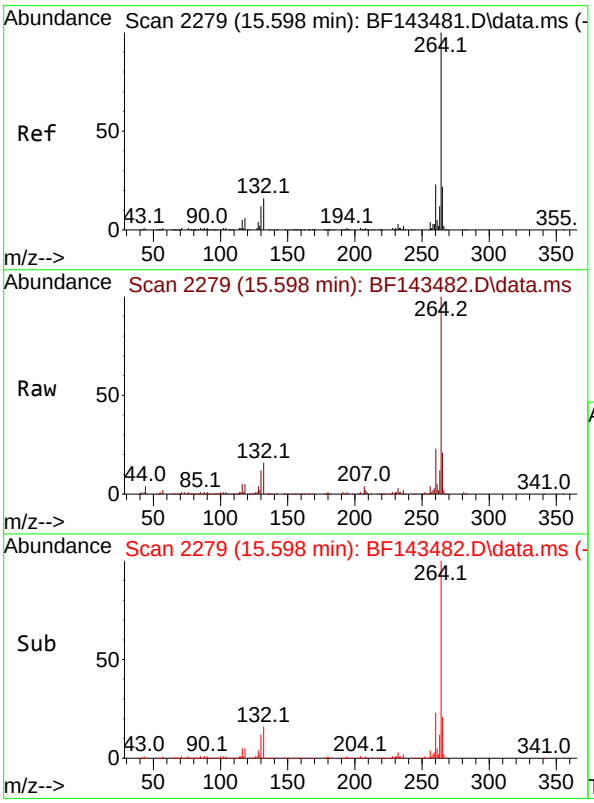
#85
Di-n-octyl phthalate
Concen: 49.329 ng
RT: 14.680 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:149 Resp: 764123

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.2	1.8
43	10.5	8.5	12.7

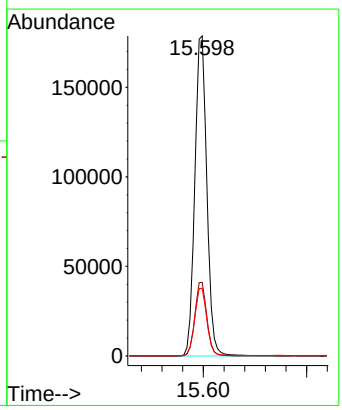


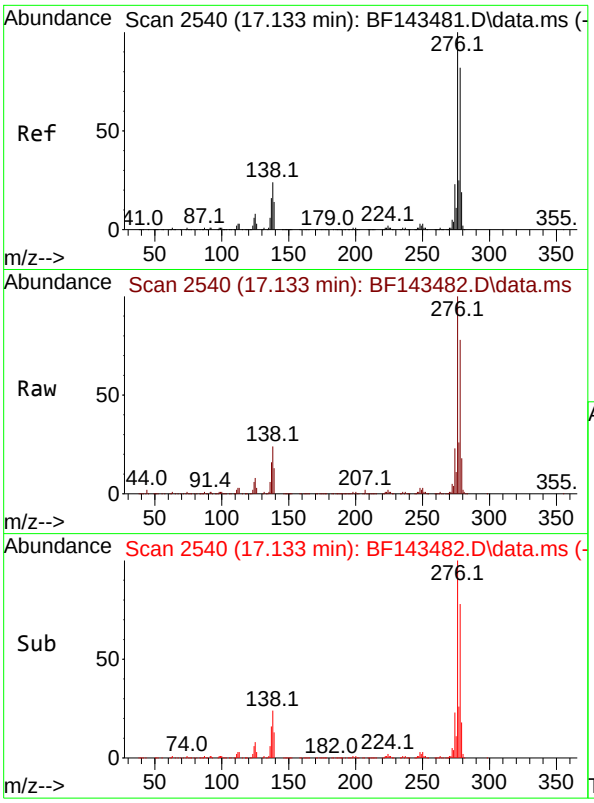


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.598 min Scan# 2279
Delta R.T. -0.000 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Tgt Ion:264 Resp: 288719

Ion	Ratio	Lower	Upper
264	100		
260	23.0	18.7	28.1
265	21.1	17.6	26.4



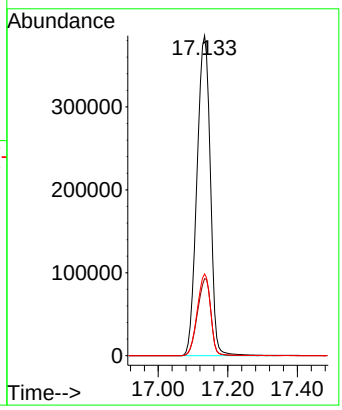


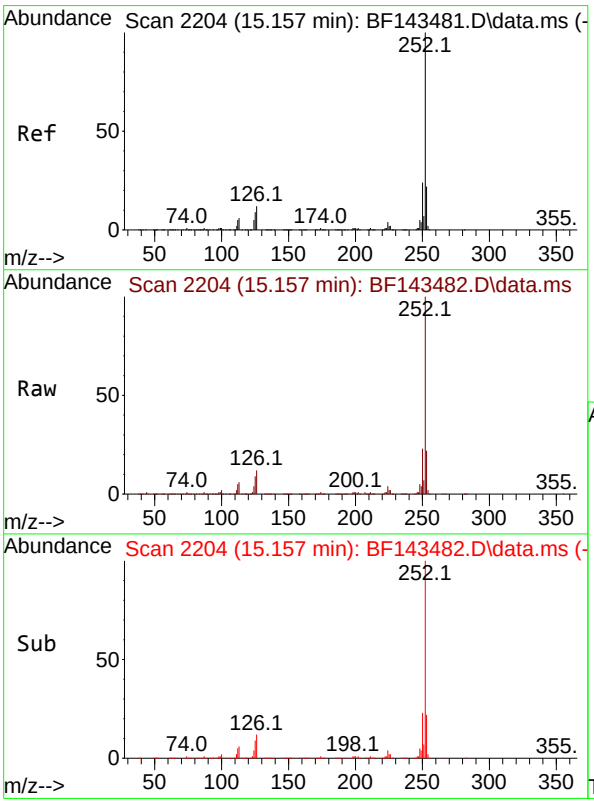
#87
Indeno(1,2,3-cd)pyrene
Concen: 49.646 ng
RT: 17.133 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:276 Resp: 1030025

Ion	Ratio	Lower	Upper
276	100		
138	24.0	19.2	28.8
277	25.3	20.3	30.5

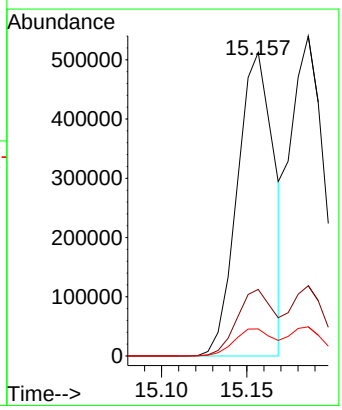


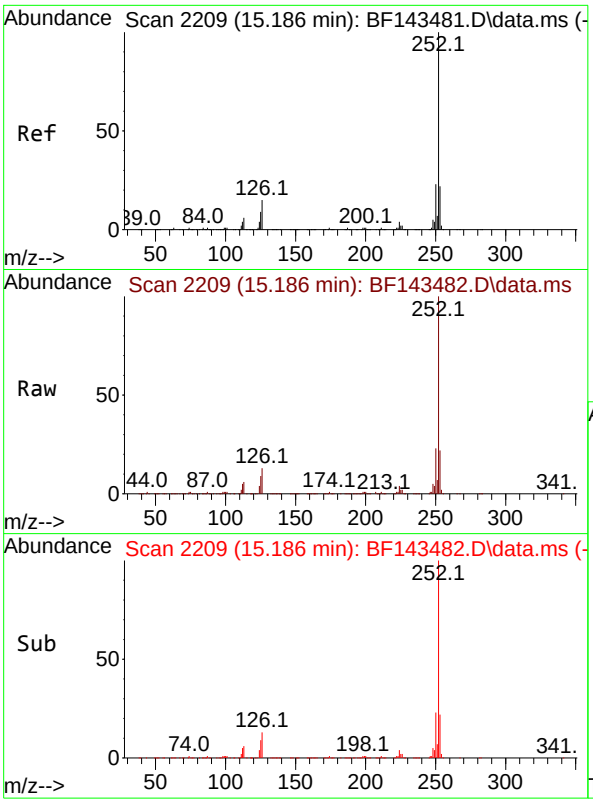


#88
Benzo(b)fluoranthene
Concen: 47.579 ng
RT: 15.157 min Scan# 2204
Delta R.T. -0.000 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Tgt Ion:252 Resp: 763584

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.5	26.3
125	8.9	7.4	11.0



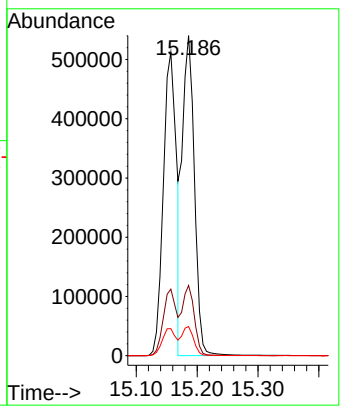


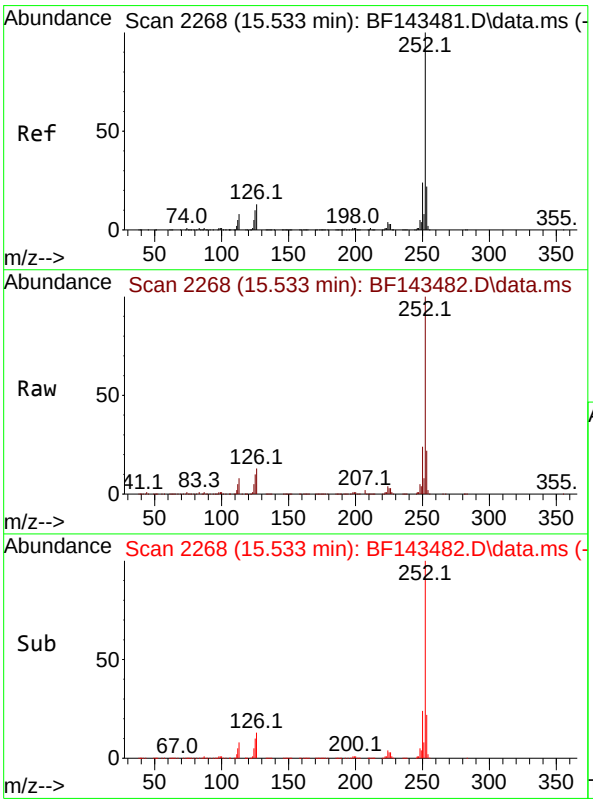
#89
Benzo(k)fluoranthene
Concen: 48.570 ng
RT: 15.186 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:252 Resp: 746332

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.4	26.2
125	9.1	7.4	11.0

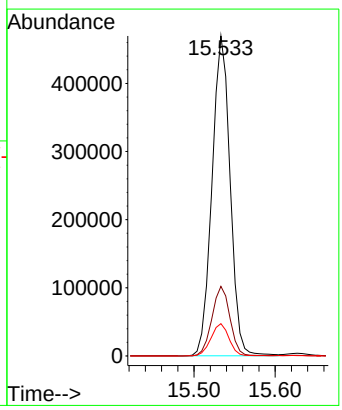


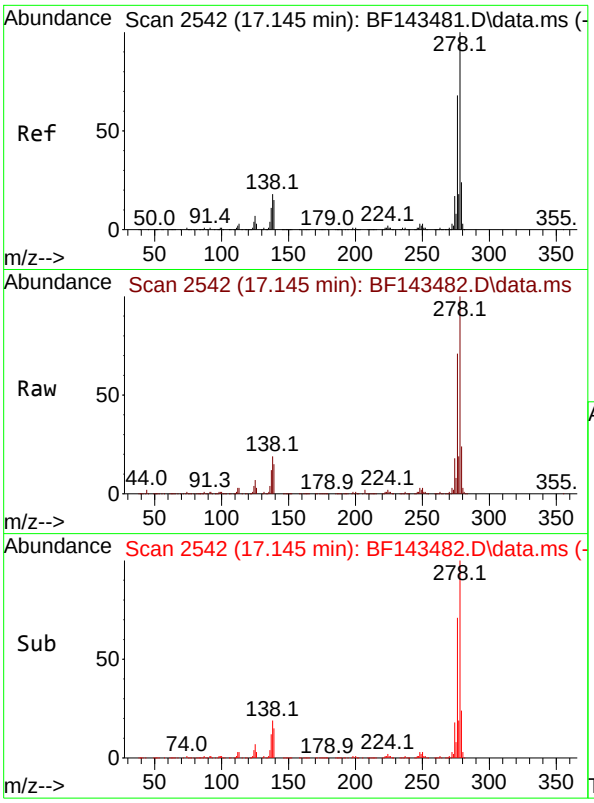


#90
Benzo(a)pyrene
Concen: 48.927 ng
RT: 15.533 min Scan# 2268
Delta R.T. -0.006 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Tgt Ion:252 Resp: 728853

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.4	26.0
125	10.1	8.2	12.2



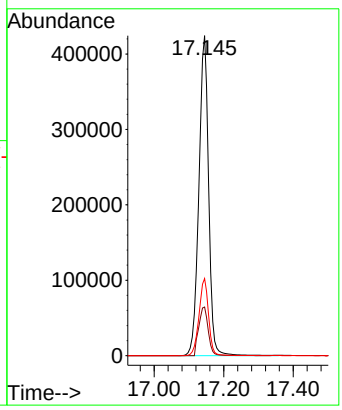


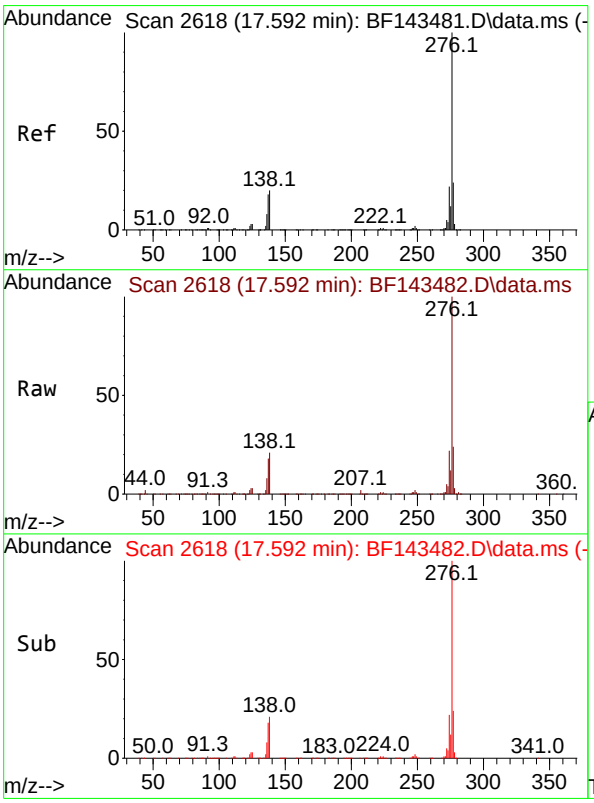
#91
Dibenzo(a,h)anthracene
Concen: 49.612 ng
RT: 17.145 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:278 Resp: 824368

Ion	Ratio	Lower	Upper
278	100		
139	15.2	12.1	18.1
279	24.1	19.2	28.8

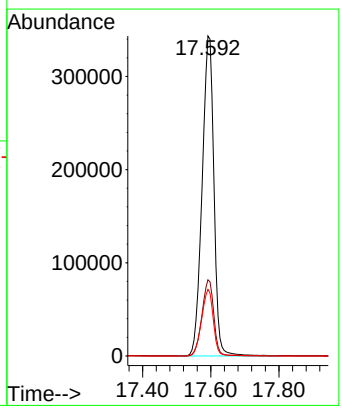




#92
Benzo(g,h,i)perylene
Concen: 50.042 ng
RT: 17.592 min Scan# 2618
Delta R.T. -0.012 min
Lab File: BF143482.D
Acq: 20 Aug 2025 13:22

Tgt Ion:276 Resp: 826803

Ion	Ratio	Lower	Upper
276	100		
277	23.8	18.9	28.3
138	20.8	16.3	24.5



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082025\
Data File : BF143483.D
Acq On : 20 Aug 2025 13:51
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Quant Time: Aug 20 16:23:45 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 20 15:07:46 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.928	152	125960	20.000	ng		0.00
21) Naphthalene-d8	8.210	136	475666	20.000	ng		0.00
39) Acenaphthene-d10	9.969	164	254778	20.000	ng		0.00
64) Phenanthrene-d10	11.457	188	374631	20.000	ng		0.00
76) Chrysene-d12	14.098	240	227355	20.000	ng		0.00
86) Perylene-d12	15.592	264	280304	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.563	112	859036	119.087	ng		0.00
7) Phenol-d6	6.569	99	1045685	117.430	ng		0.00
23) Nitrobenzene-d5	7.492	82	970478	119.058	ng		0.00
42) 2,4,6-Tribromophenol	10.757	330	280822	118.410	ng		0.00
45) 2-Fluorobiphenyl	9.286	172	1690255	109.642	ng		0.00
79) Terphenyl-d14	13.039	244	1434829	110.129	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.740	88	204781	61.281	ng		99
3) Pyridine	3.522	79	558243	62.721	ng		99
4) n-Nitrosodimethylamine	3.469	42	251614	62.886	ng		97
6) Aniline	6.593	93	704213	59.165	ng	#	85
8) 2-Chlorophenol	6.722	128	479780	60.217	ng		98
9) Benzaldehyde	6.481	77	529696	73.472	ng		99
10) Phenol	6.587	94	601782	58.663	ng		87
11) bis(2-Chloroethyl)ether	6.663	93	461238	60.168	ng		98
12) 1,3-Dichlorobenzene	6.875	146	528623	59.050	ng		100
13) 1,4-Dichlorobenzene	6.945	146	532575	59.307	ng		99
14) 1,2-Dichlorobenzene	7.098	146	503841	59.261	ng		99
15) Benzyl Alcohol	7.075	79	411011	61.650	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.198	45	705931	57.560	ng		92
17) 2-Methylphenol	7.187	107	382072	59.749	ng		99
18) Hexachloroethane	7.445	117	184846	60.543	ng		94
19) n-Nitroso-di-n-propyla...	7.345	70	314244	57.737	ng		99
20) 3+4-Methylphenols	7.340	107	445057	58.302	ng		96
22) Acetophenone	7.340	105	584698	56.897	ng		100
24) Nitrobenzene	7.510	77	510499	60.850	ng		98
25) Isophorone	7.751	82	892536	59.733	ng		99
26) 2-Nitrophenol	7.828	139	256573	62.434	ng		98
27) 2,4-Dimethylphenol	7.863	122	378590	59.098	ng		99
28) bis(2-Chloroethoxy)met...	7.957	93	541094	58.925	ng		99
29) 2,4-Dichlorophenol	8.075	162	403885	59.031	ng		99
30) 1,2,4-Trichlorobenzene	8.151	180	414723	58.956	ng		99
31) Naphthalene	8.234	128	1314277	57.551	ng		100
32) Benzoic acid	7.998	122	232136	61.815	ng		98
33) 4-Chloroaniline	8.281	127	471374	58.156	ng		99
34) Hexachlorobutadiene	8.351	225	270626	58.968	ng		99
35) Caprolactam	8.663	113	99502	60.607	ng		99
36) 4-Chloro-3-methylphenol	8.763	107	404673	59.020	ng		100
37) 2-Methylnaphthalene	8.922	142	869902	57.034	ng		100
38) 1-Methylnaphthalene	9.022	142	828346	56.776	ng		100
40) 1,2,4,5-Tetrachloroben...	9.092	216	421909	57.894	ng		99
41) Hexachlorocyclopentadiene	9.081	237	172625	62.497	ng		100
43) 2,4,6-Trichlorophenol	9.204	196	275502	61.437	ng		100

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082025\
Data File : BF143483.D
Acq On : 20 Aug 2025 13:51
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Quant Time: Aug 20 16:23:45 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 20 15:07:46 2025
Response via : Initial Calibration

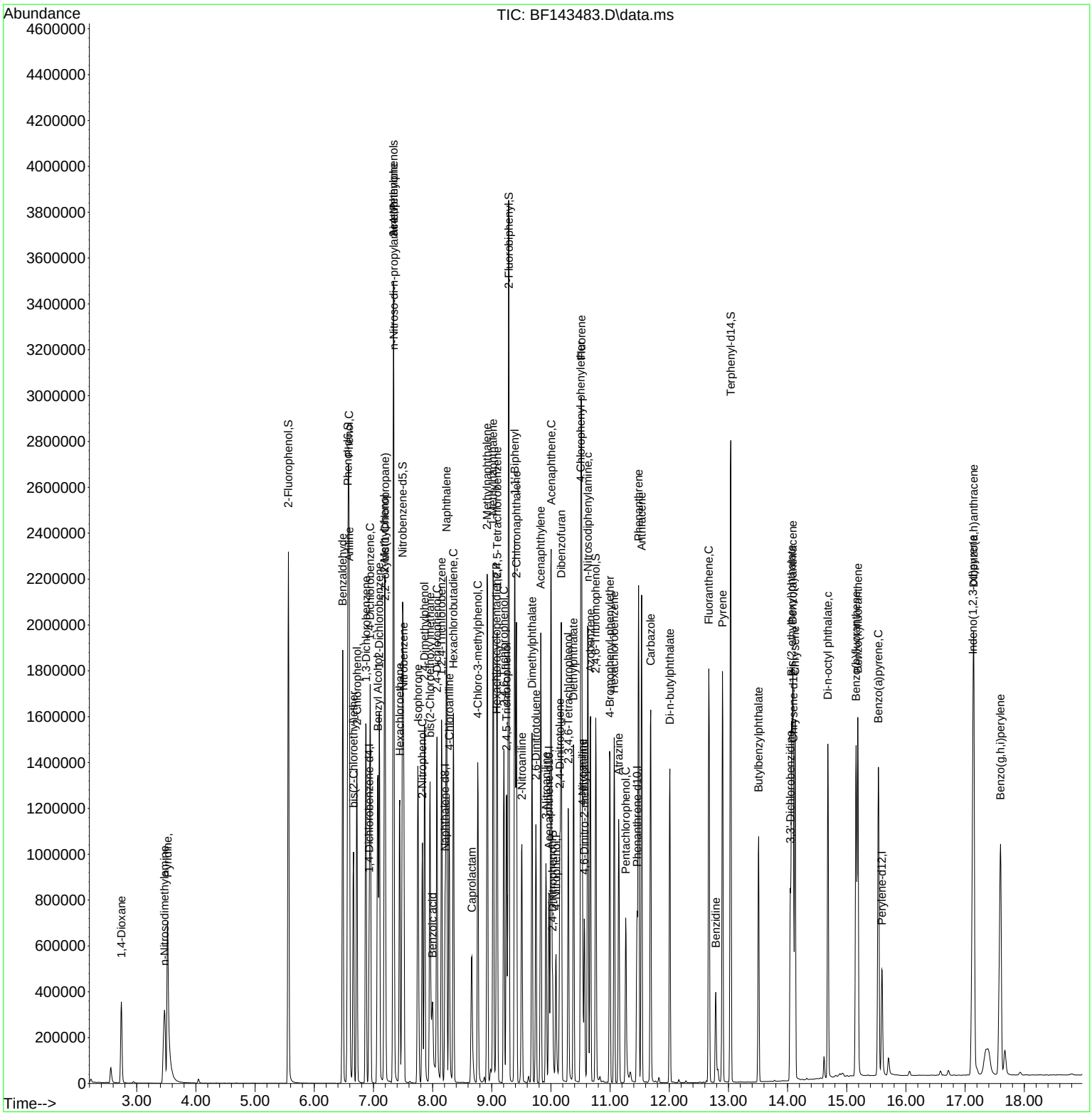
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.251	196	295585	60.345	ng	98
46) 1,1'-Biphenyl	9.386	154	1031320	57.031	ng	100
47) 2-Chloronaphthalene	9.416	162	816474	57.544	ng	99
48) 2-Nitroaniline	9.510	65	252618	60.835	ng	95
49) Acenaphthylene	9.828	152	1171986	57.687	ng	100
50) Dimethylphthalate	9.681	163	898362	58.546	ng	100
51) 2,6-Dinitrotoluene	9.745	165	196694	61.849	ng	98
52) Acenaphthene	10.004	154	798226	57.868	ng	100
53) 3-Nitroaniline	9.916	138	207068	60.257	ng	99
54) 2,4-Dinitrophenol	10.028	184	105073	62.986	ng	98
55) Dibenzofuran	10.175	168	1110414	56.463	ng	99
56) 4-Nitrophenol	10.086	139	131356	64.242	ng	97
57) 2,4-Dinitrotoluene	10.151	165	263001	61.935	ng	99
58) Fluorene	10.516	166	842185	55.641	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.292	232	226735	62.306	ng	99
60) Diethylphthalate	10.381	149	791582	57.538	ng	100
61) 4-Chlorophenyl-phenyle...	10.504	204	433351	57.247	ng	99
62) 4-Nitroaniline	10.533	138	189435	60.015	ng	98
63) Azobenzene	10.669	77	815353	57.158	ng	98
65) 4,6-Dinitro-2-methylph...	10.563	198	139830	66.197	ng	95
66) n-Nitrosodiphenylamine	10.622	169	714577	59.270	ng	99
67) 4-Bromophenyl-phenylether	10.998	248	270225	60.454	ng	100
68) Hexachlorobenzene	11.069	284	288119	59.797	ng	99
69) Atrazine	11.145	200	195334	62.765	ng	99
70) Pentachlorophenol	11.263	266	146959	66.597	ng	99
71) Phenanthrene	11.480	178	1160860	57.863	ng	100
72) Anthracene	11.533	178	1164449	57.295	ng	100
73) Carbazole	11.686	167	967633	58.105	ng	99
74) Di-n-butylphthalate	12.010	149	963249	62.003	ng	99
75) Fluoranthene	12.669	202	1037239	57.619	ng	100
77) Benzidine	12.786	184	250962	45.316	ng	99
78) Pyrene	12.898	202	1030970	55.127	ng	99
80) Butylbenzylphthalate	13.510	149	347496	68.017	ng	99
81) Benzo(a)anthracene	14.086	228	897535	61.318	ng	99
82) 3,3'-Dichlorobenzidine	14.045	252	257059	61.324	ng	97
83) Chrysene	14.127	228	767443	58.342	ng	100
84) Bis(2-ethylhexyl)phtha...	14.069	149	523115	67.227	ng	99
85) Di-n-octyl phthalate	14.680	149	963857	66.864	ng	100
87) Indeno(1,2,3-cd)pyrene	17.133	276	1232879	61.208	ng	100
88) Benzo(b)fluoranthene	15.157	252	897808	57.622	ng	99
89) Benzo(k)fluoranthene	15.186	252	928660	62.250	ng	100
90) Benzo(a)pyrene	15.533	252	876864	60.630	ng	99
91) Dibenzo(a,h)anthracene	17.145	278	982366	60.896	ng	99
92) Benzo(g,h,i)perylene	17.598	276	985608	61.444	ng	100

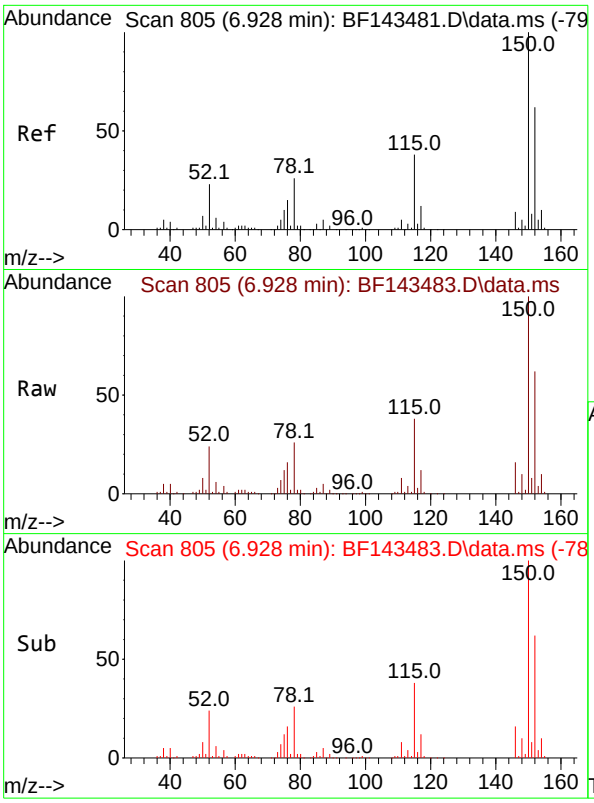
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082025\
Data File : BF143483.D
Acq On : 20 Aug 2025 13:51
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Quant Time: Aug 20 16:23:45 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 20 15:07:46 2025
Response via : Initial Calibration



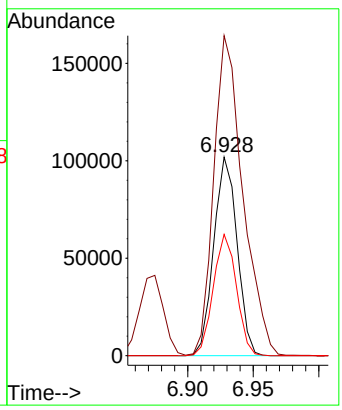


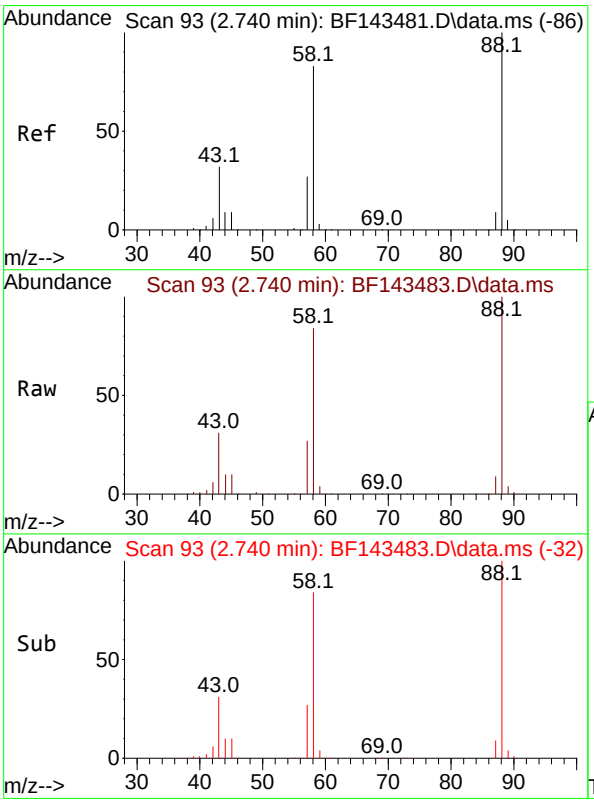
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.928 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:152 Resp: 125960

Ion	Ratio	Lower	Upper
152	100		
150	161.2	128.9	193.3
115	61.1	49.2	73.8

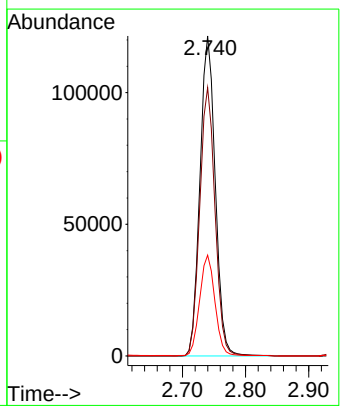


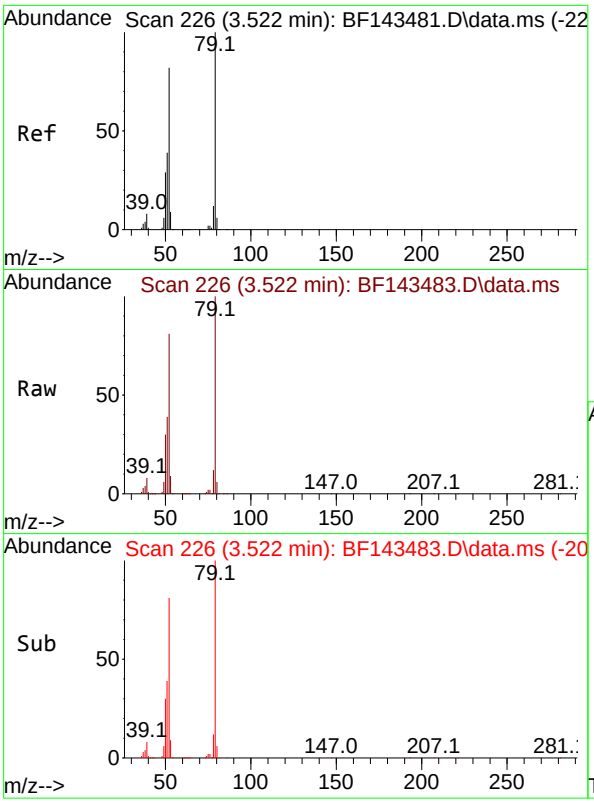


#2
1,4-Dioxane
Concen: 61.281 ng
RT: 2.740 min Scan# 93
Delta R.T. 0.006 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Tgt Ion: 88 Resp: 204781

Ion	Ratio	Lower	Upper
88	100		
58	84.0	66.7	100.1
43	31.8	25.8	38.8



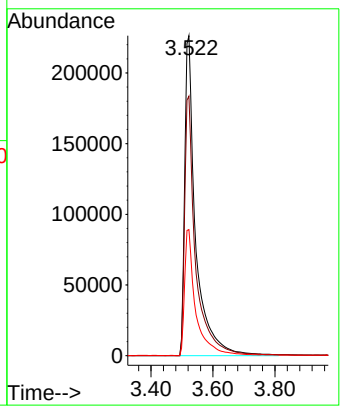


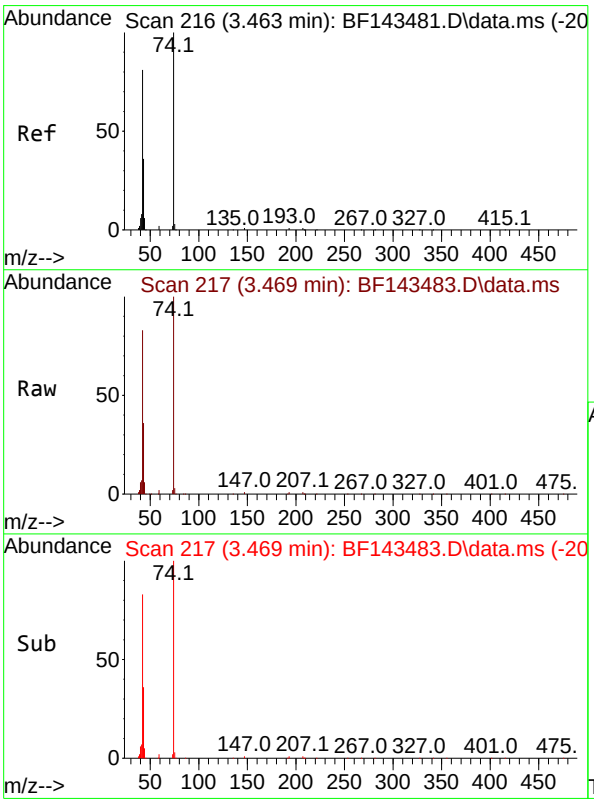
#3
Pyridine
Concen: 62.721 ng
RT: 3.522 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 79 Resp: 558243

Ion	Ratio	Lower	Upper
79	100		
52	81.1	65.6	98.4
51	39.4	31.2	46.8

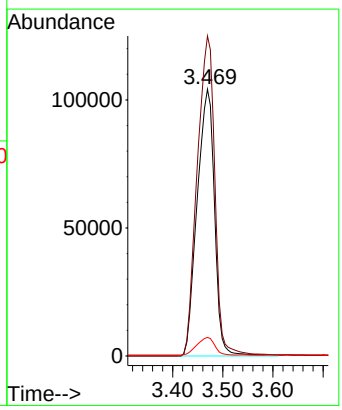


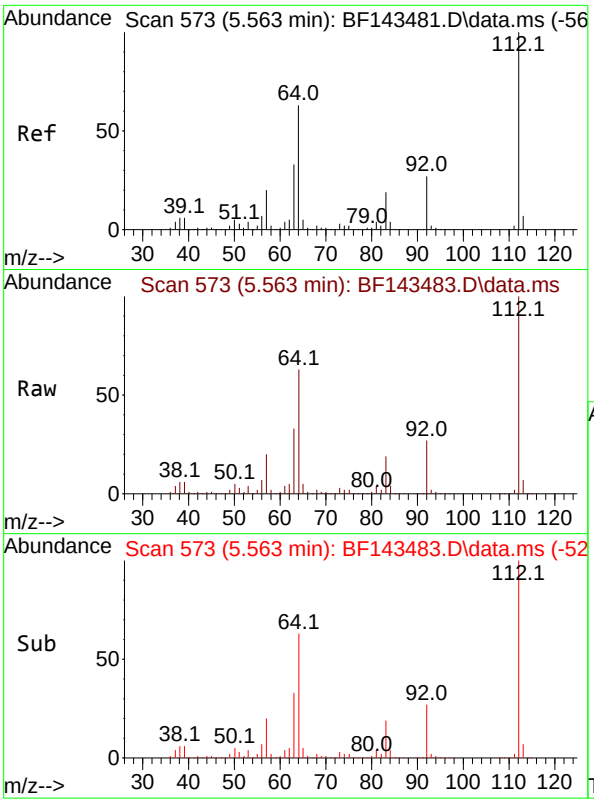


#4
n-Nitrosodimethylamine
Concen: 62.886 ng
RT: 3.469 min Scan# 217
Delta R.T. -0.006 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Tgt Ion: 42 Resp: 251614

Ion	Ratio	Lower	Upper
42	100		
74	120.0	98.6	148.0
44	7.0	5.8	8.8



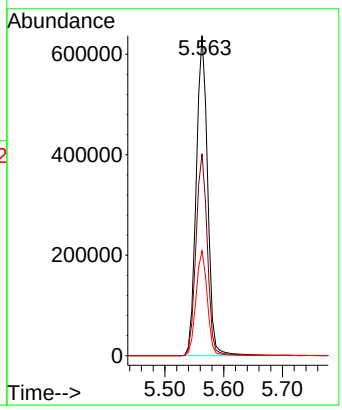


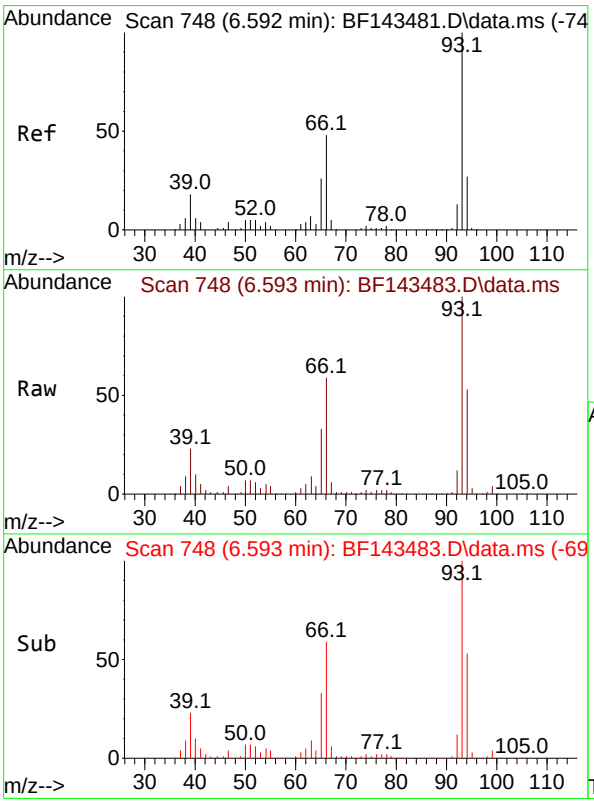
#5
2-Fluorophenol
Concen: 119.087 ng
RT: 5.563 min Scan# 5
Delta R.T. 0.000 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:112 Resp: 859036

Ion	Ratio	Lower	Upper
112	100		
64	63.1	50.4	75.6
63	32.8	26.4	39.6

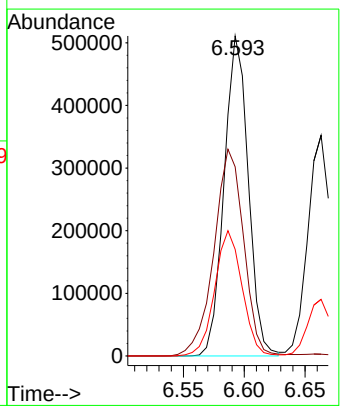


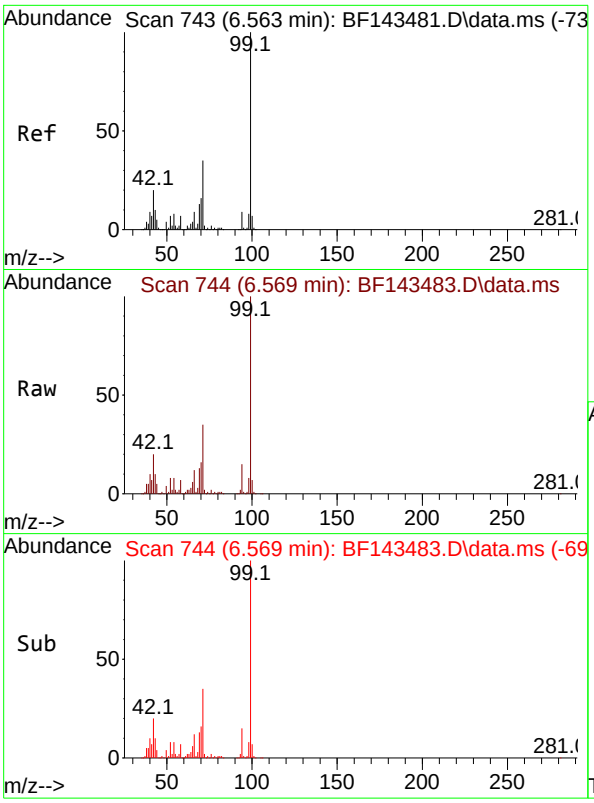


#6
Aniline
Concen: 59.165 ng
RT: 6.593 min Scan# 748
Delta R.T. 0.000 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Tgt Ion: 93 Resp: 704213

Ion	Ratio	Lower	Upper
93	100		
66	59.1	38.9	58.3#
65	33.3	20.6	30.8#



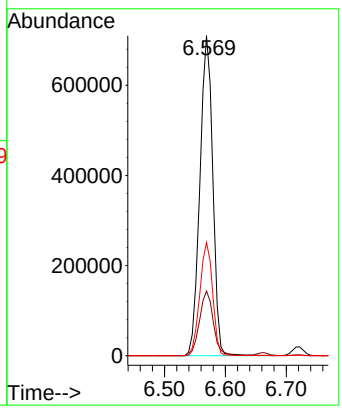


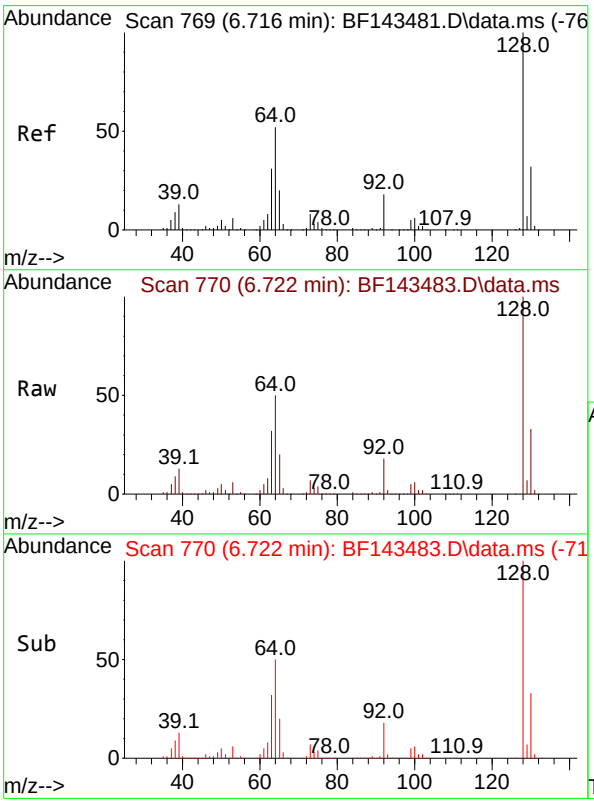
#7
Phenol-d6
Concen: 117.430 ng
RT: 6.569 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 99 Resp: 1045685

Ion	Ratio	Lower	Upper
99	100		
42	20.2	16.3	24.5
71	35.4	28.2	42.2

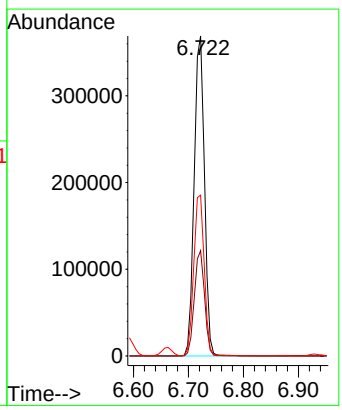


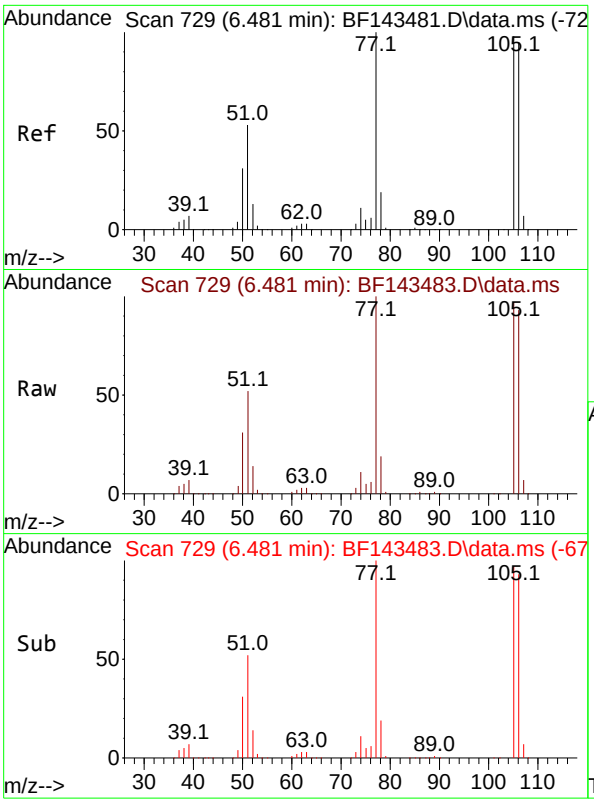


#8
2-Chlorophenol
Concen: 60.217 ng
RT: 6.722 min Scan# 770
Delta R.T. 0.000 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Tgt Ion:128 Resp: 479780

Ion	Ratio	Lower	Upper
128	100		
130	32.9	12.4	52.4
64	50.3	31.6	71.6



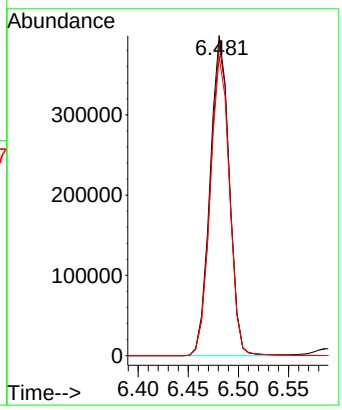


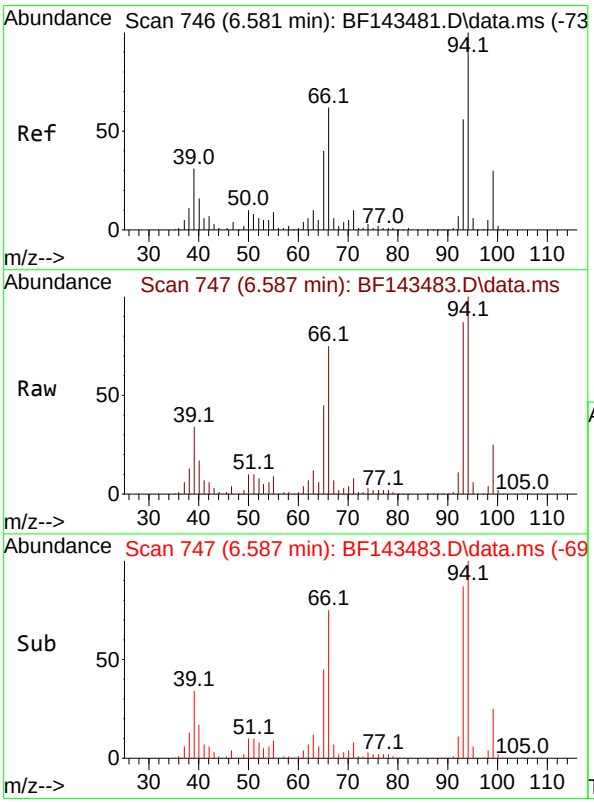
#9
Benzaldehyde
Concen: 73.472 ng
RT: 6.481 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 77 Resp: 529696

Ion	Ratio	Lower	Upper
77	100		
105	97.0	78.1	118.1
106	93.4	74.9	114.9

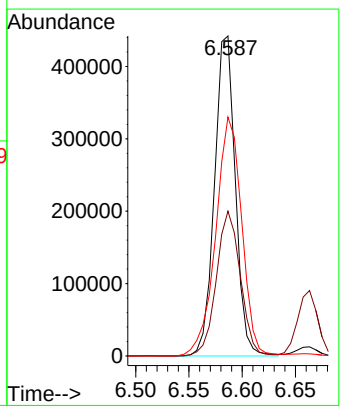


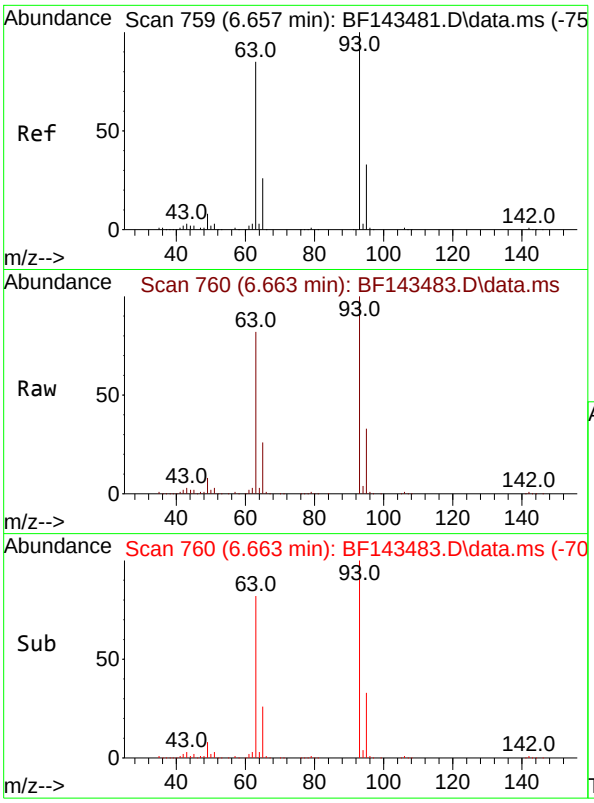


#10
Phenol
Concen: 58.663 ng
RT: 6.587 min Scan# 747
Delta R.T. 0.000 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Tgt Ion: 94 Resp: 601782

Ion	Ratio	Lower	Upper
94	100		
65	45.3	19.5	59.5
66	74.7	42.5	82.5



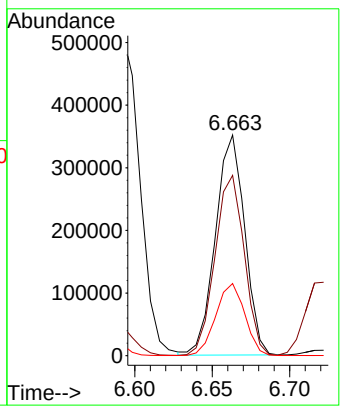


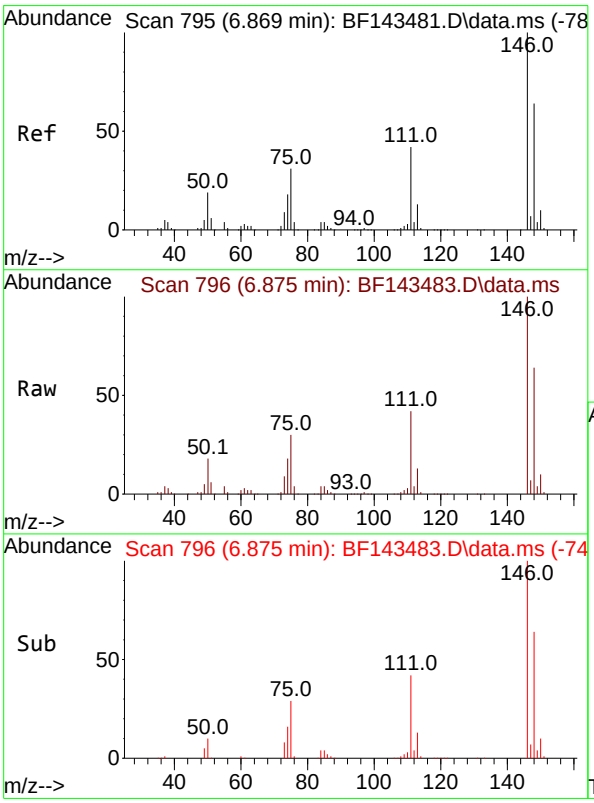
#11
bis(2-Chloroethyl)ether
Concen: 60.168 ng
RT: 6.663 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 93 Resp: 461238

Ion	Ratio	Lower	Upper
93	100		
63	81.7	63.6	103.6
95	32.7	12.8	52.8

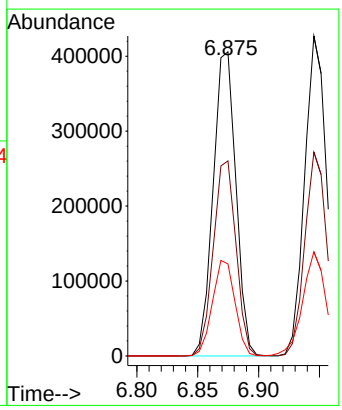


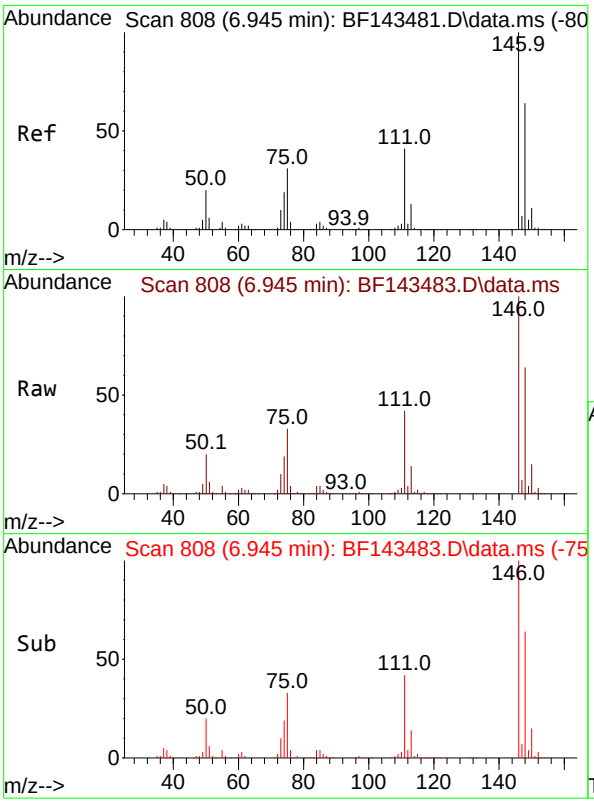


#12
1,3-Dichlorobenzene
Concen: 59.050 ng
RT: 6.875 min Scan# 796
Delta R.T. 0.000 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Tgt Ion:146 Resp: 528623

Ion	Ratio	Lower	Upper
146	100		
148	64.1	51.3	76.9
75	30.3	24.7	37.1



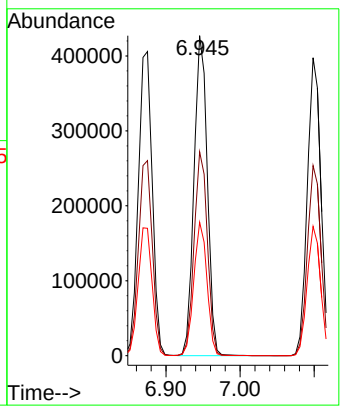


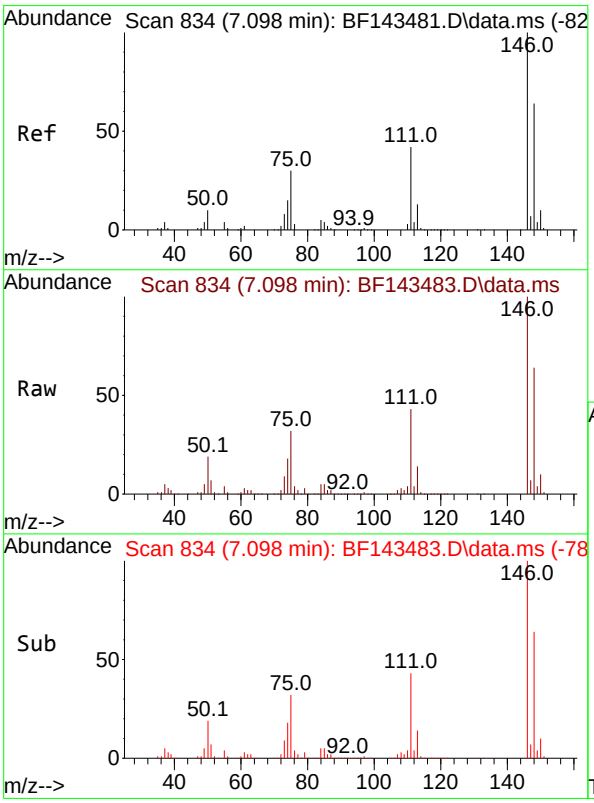
#13
1,4-Dichlorobenzene
Concen: 59.307 ng
RT: 6.945 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:146 Resp: 532575

Ion	Ratio	Lower	Upper
146	100		
148	63.7	51.5	77.3
111	41.7	32.6	49.0

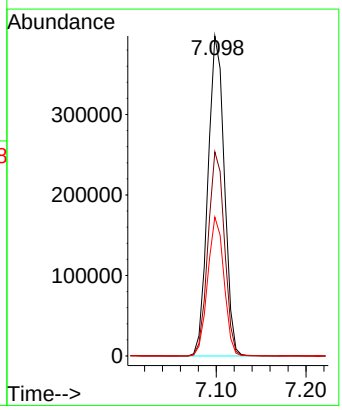


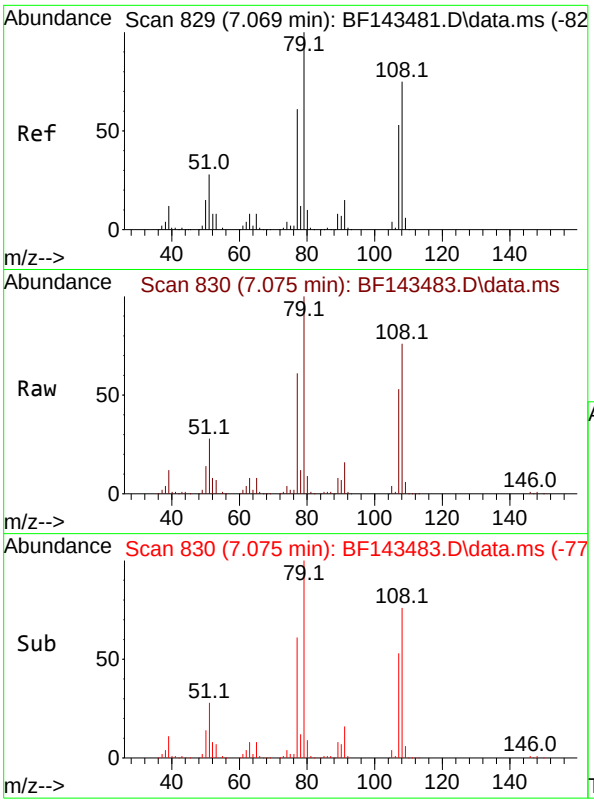


#14
1,2-Dichlorobenzene
Concen: 59.261 ng
RT: 7.098 min Scan# 834
Delta R.T. 0.000 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Tgt Ion:146 Resp: 503841

Ion	Ratio	Lower	Upper
146	100		
148	63.8	51.0	76.6
111	43.4	34.0	51.0



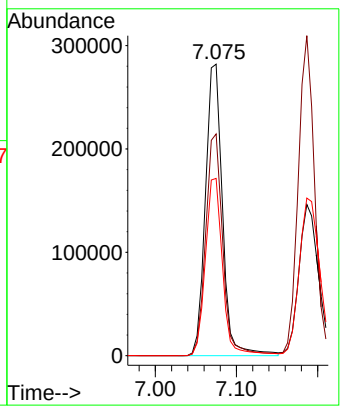


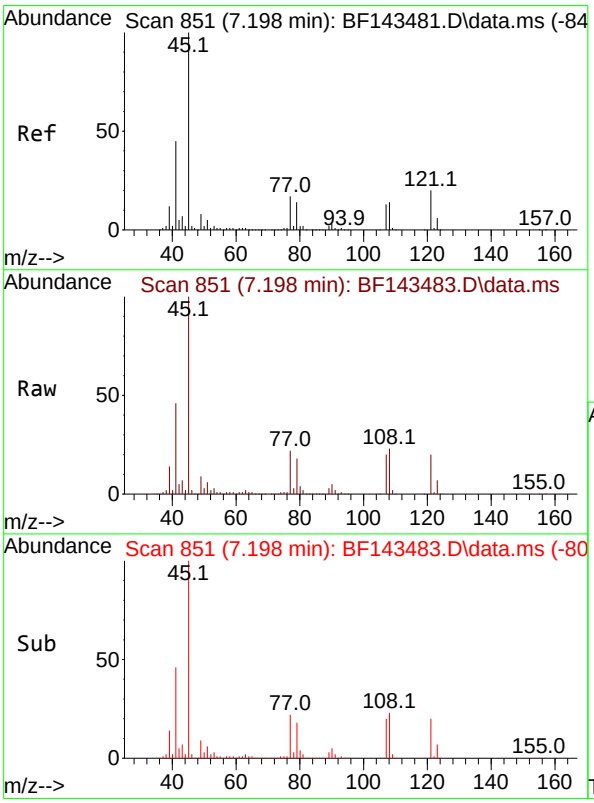
#15
Benzyl Alcohol
Concen: 61.650 ng
RT: 7.075 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 79 Resp: 411011

Ion	Ratio	Lower	Upper
79	100		
108	76.1	59.8	89.6
77	60.8	49.0	73.4

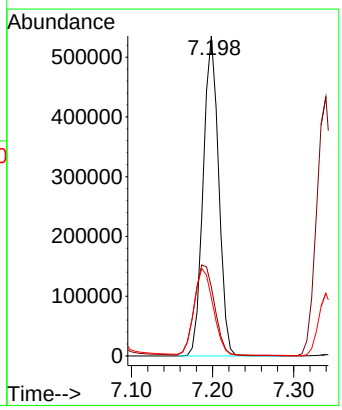


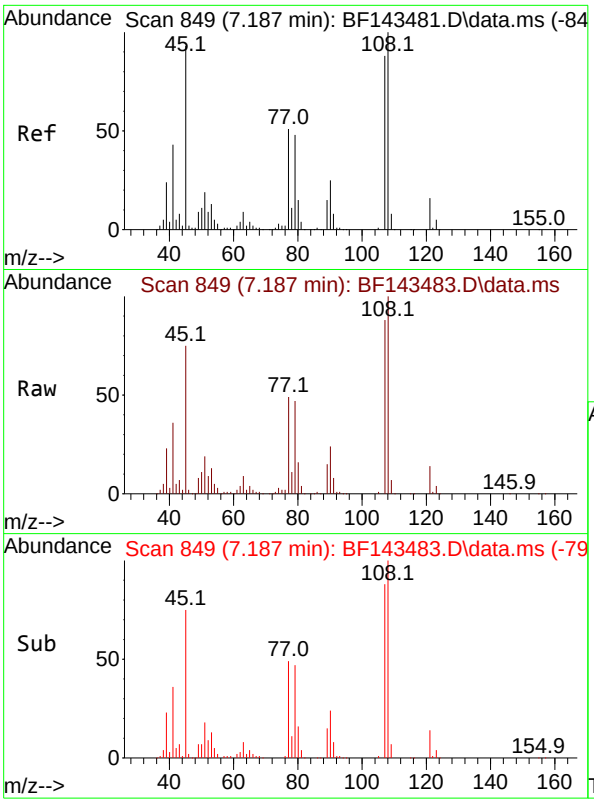


#16
2,2'-oxybis(1-Chloropropane)
Concen: 57.560 ng
RT: 7.198 min Scan# 851
Delta R.T. 0.000 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Tgt Ion: 45 Resp: 705931

Ion	Ratio	Lower	Upper
45	100		
77	21.6	0.0	37.9
79	18.2	0.0	34.7



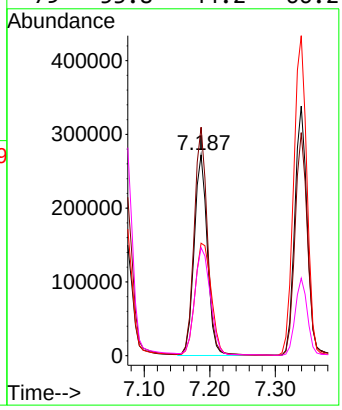


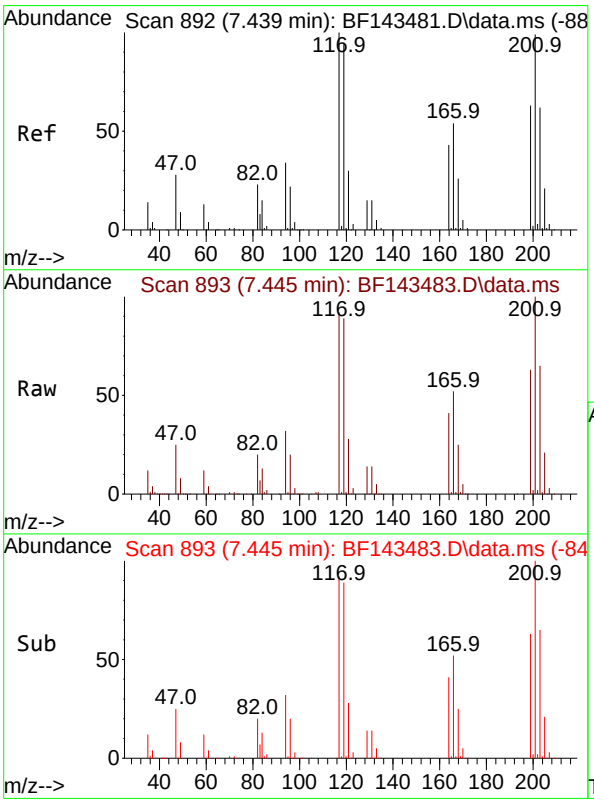
#17
2-Methylphenol
Concen: 59.749 ng
RT: 7.187 min Scan# 84
Delta R.T. 0.000 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:107 Resp: 382072

Ion	Ratio	Lower	Upper
107	100		
108	113.8	91.1	136.7
77	56.0	46.2	69.4
79	53.8	44.2	66.2

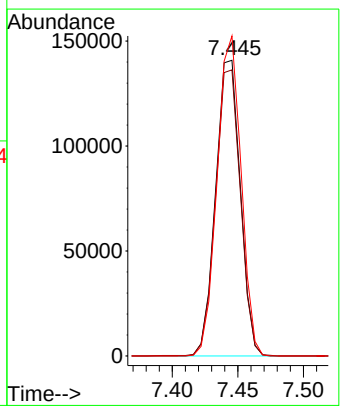


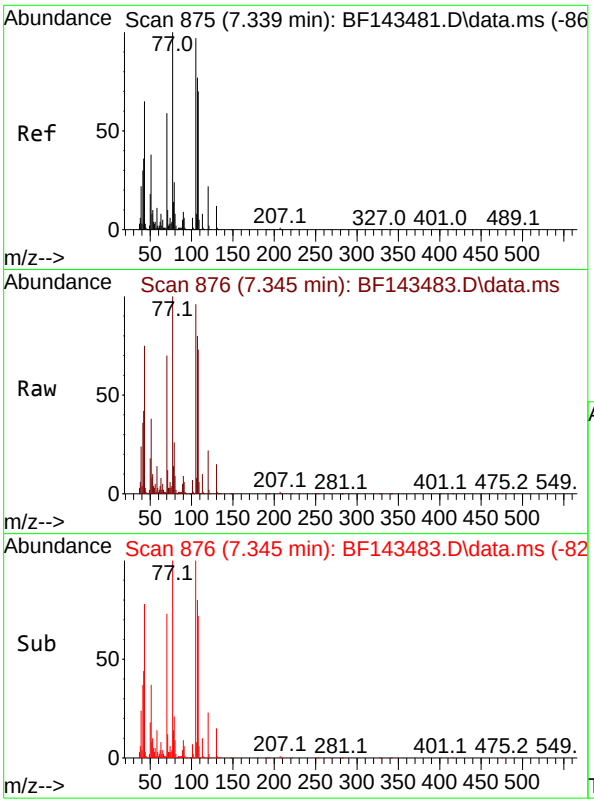


#18
Hexachloroethane
Concen: 60.543 ng
RT: 7.445 min Scan# 893
Delta R.T. 0.000 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Tgt Ion:117 Resp: 184846

Ion	Ratio	Lower	Upper
117	100		
119	96.7	75.4	113.0
201	108.2	79.0	118.4



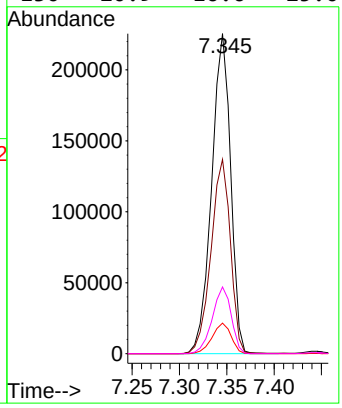


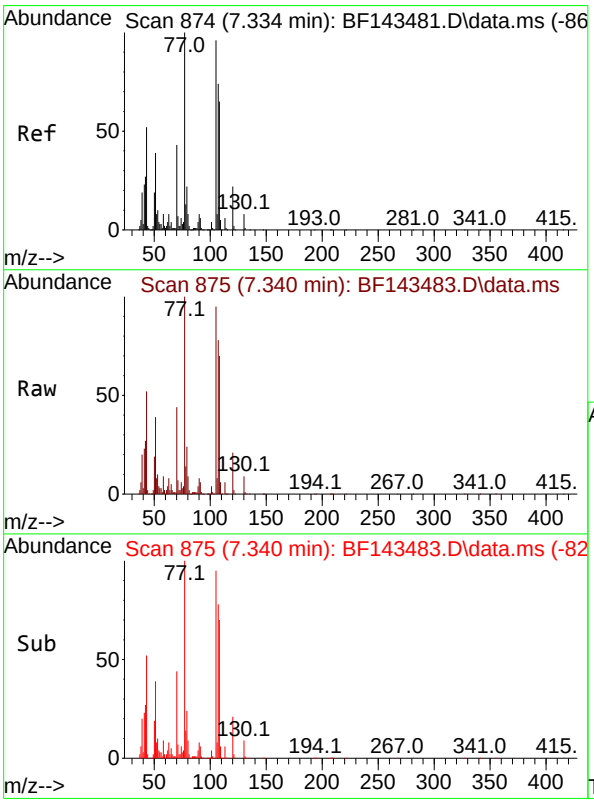
#19
n-Nitroso-di-n-propylamine
Concen: 57.737 ng
RT: 7.345 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 70 Resp: 314244

Ion	Ratio	Lower	Upper
70	100		
42	60.7	49.3	73.9
101	9.6	7.8	11.8
130	20.9	16.6	25.0

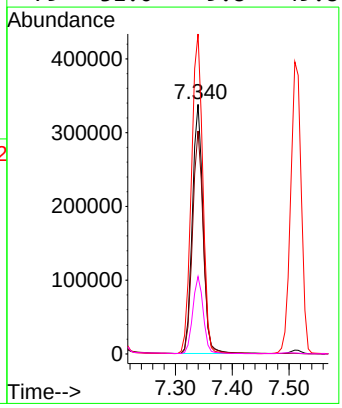


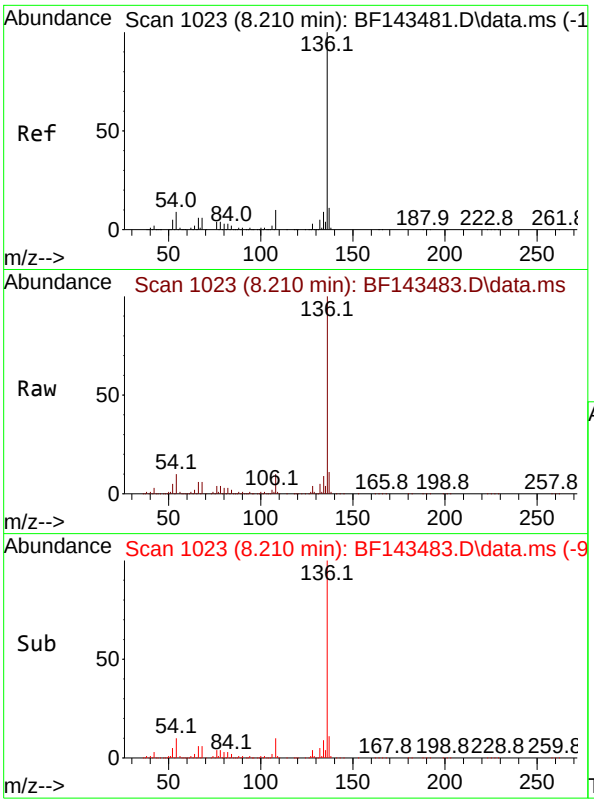


#20
3+4-Methylphenols
Concen: 58.302 ng
RT: 7.340 min Scan# 875
Delta R.T. 0.000 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Tgt Ion:107 Resp: 445057

Ion	Ratio	Lower	Upper
107	100		
108	89.4	68.4	108.4
77	128.2	116.1	156.1
79	31.0	9.8	49.8



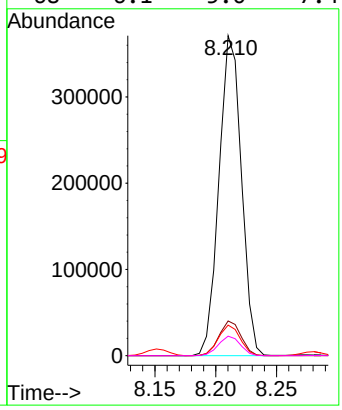


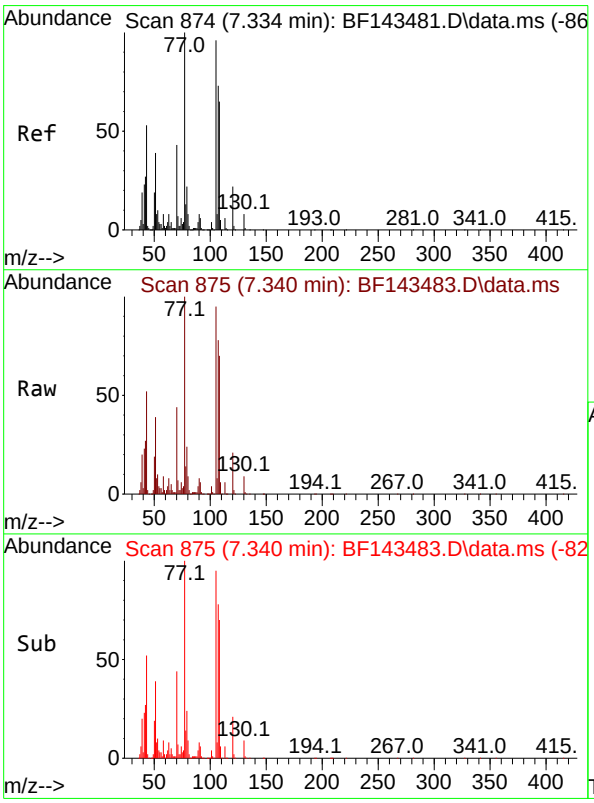
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.210 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:136 Resp: 475666

Ion	Ratio	Lower	Upper
136	100		
137	10.8	9.0	13.4
54	9.6	7.4	11.2
68	6.1	5.0	7.4

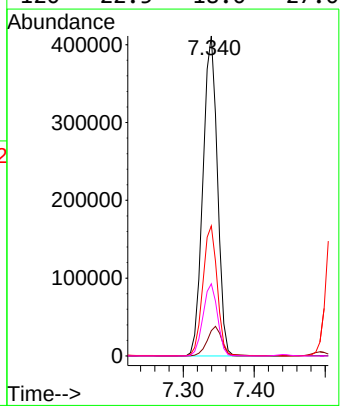


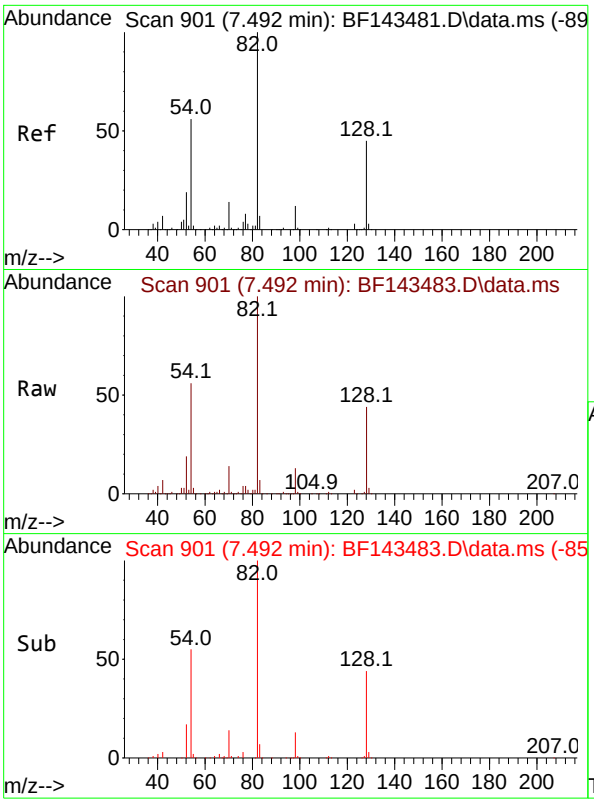


#22
Acetophenone
Concen: 56.897 ng
RT: 7.340 min Scan# 875
Delta R.T. 0.000 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Tgt Ion:105 Resp: 584698

Ion	Ratio	Lower	Upper
105	100		
71	7.9	5.9	8.9
51	40.6	32.5	48.7
120	22.5	18.0	27.0



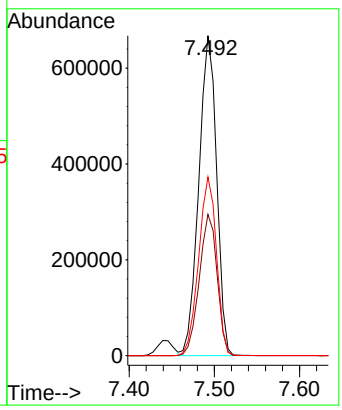


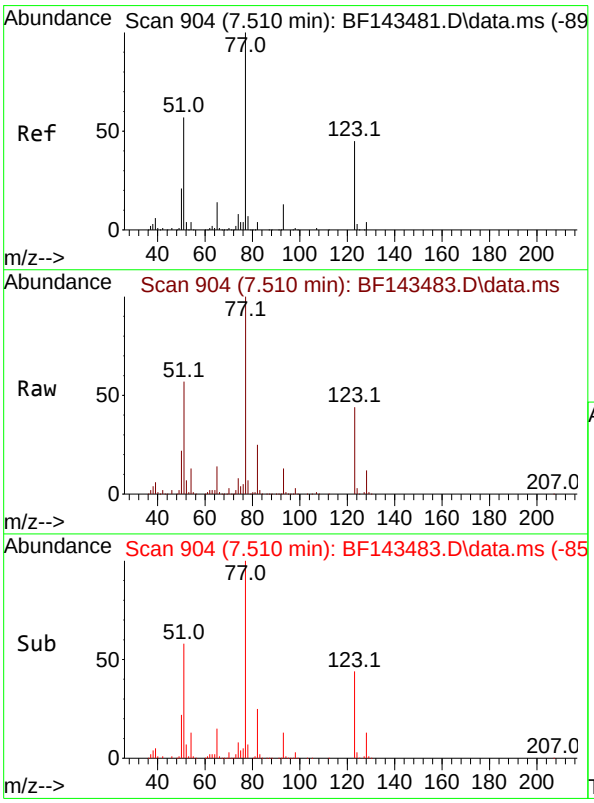
#23
Nitrobenzene-d5
Concen: 119.058 ng
RT: 7.492 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 82 Resp: 970478

Ion	Ratio	Lower	Upper
82	100		
128	44.1	35.5	53.3
54	55.9	44.3	66.5

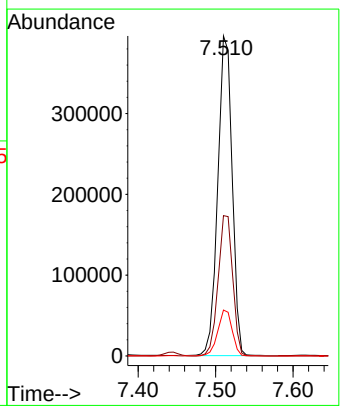


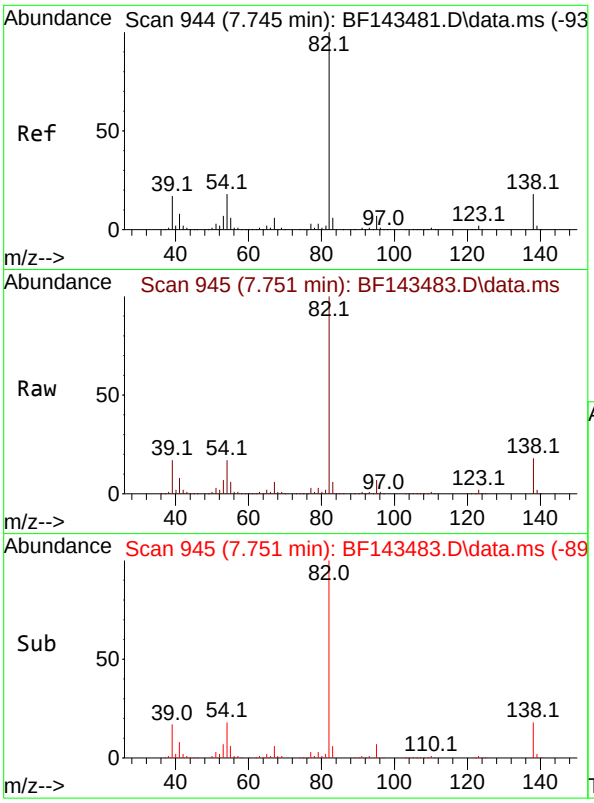


#24
Nitrobenzene
Concen: 60.850 ng
RT: 7.510 min Scan# 904
Delta R.T. -0.006 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Tgt Ion: 77 Resp: 510499

Ion	Ratio	Lower	Upper
77	100		
123	43.9	36.1	54.1
65	14.4	11.0	16.6



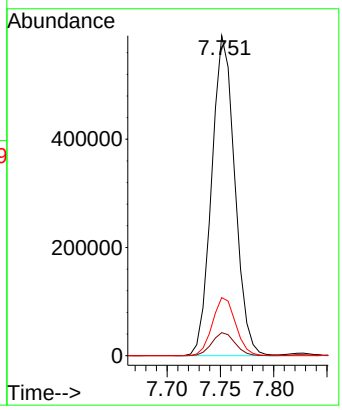


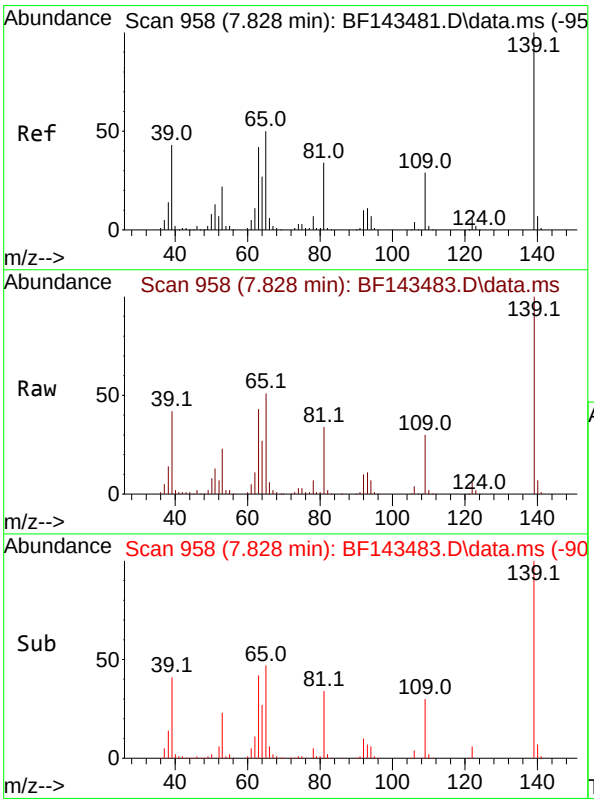
#25
Isophorone
Concen: 59.733 ng
RT: 7.751 min Scan# 94
Delta R.T. -0.006 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 82 Resp: 892536

Ion	Ratio	Lower	Upper
82	100		
95	7.2	5.8	8.8
138	18.1	14.2	21.4

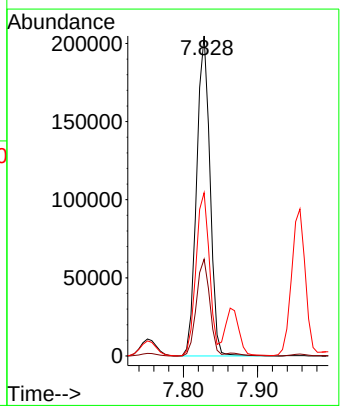


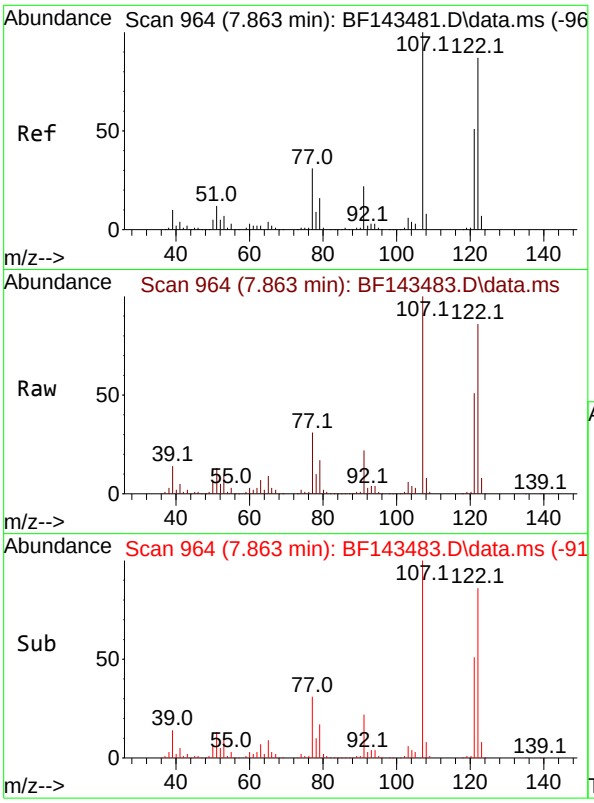


#26
2-Nitrophenol
Concen: 62.434 ng
RT: 7.828 min Scan# 958
Delta R.T. 0.000 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Tgt Ion:139 Resp: 256573

Ion	Ratio	Lower	Upper
139	100		
109	30.3	23.0	34.6
65	51.0	40.3	60.5



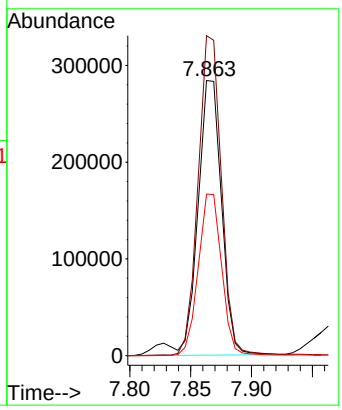


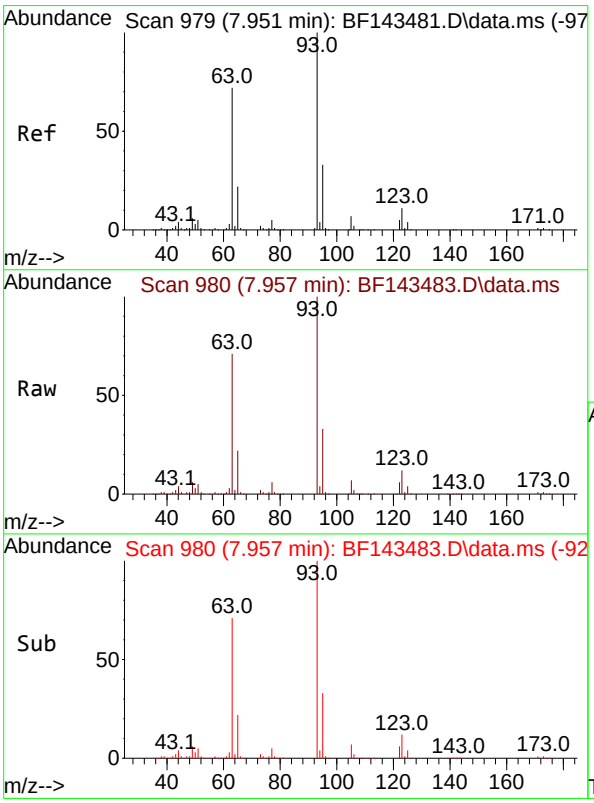
#27
2,4-Dimethylphenol
Concen: 59.098 ng
RT: 7.863 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:122 Resp: 378590

Ion	Ratio	Lower	Upper
122	100		
107	116.3	91.5	137.3
121	58.7	47.0	70.4

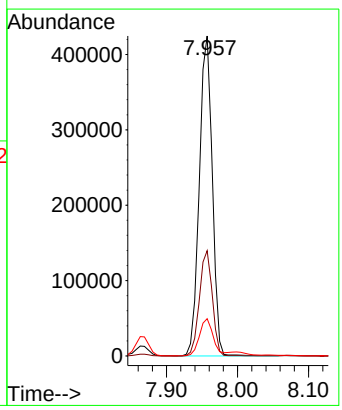


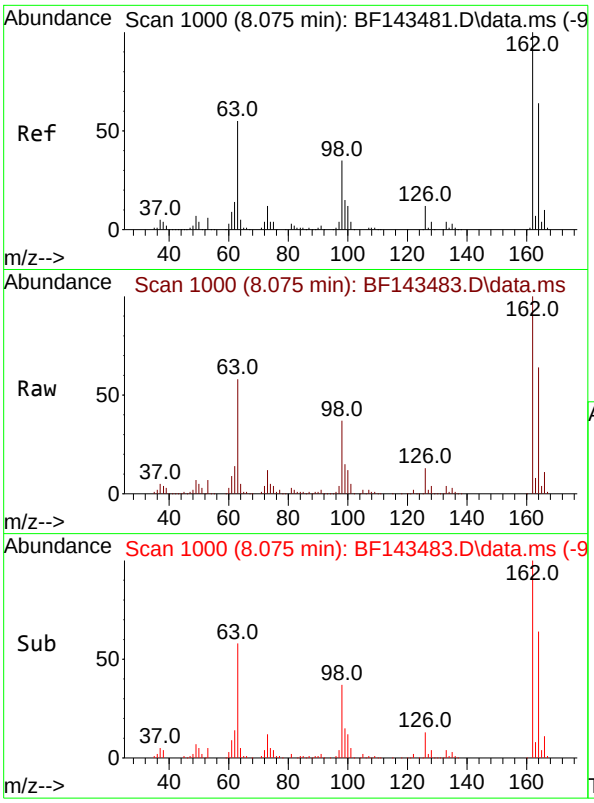


#28
bis(2-Chloroethoxy)methane
Concen: 58.925 ng
RT: 7.957 min Scan# 980
Delta R.T. 0.000 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Tgt Ion: 93 Resp: 541094

Ion	Ratio	Lower	Upper
93	100		
95	32.9	26.0	39.0
123	11.7	9.1	13.7



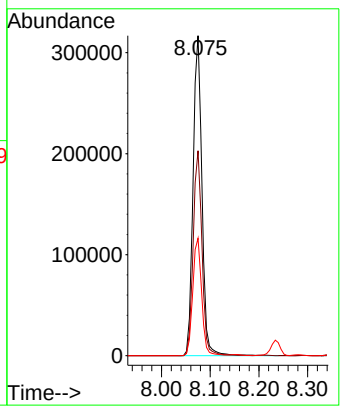


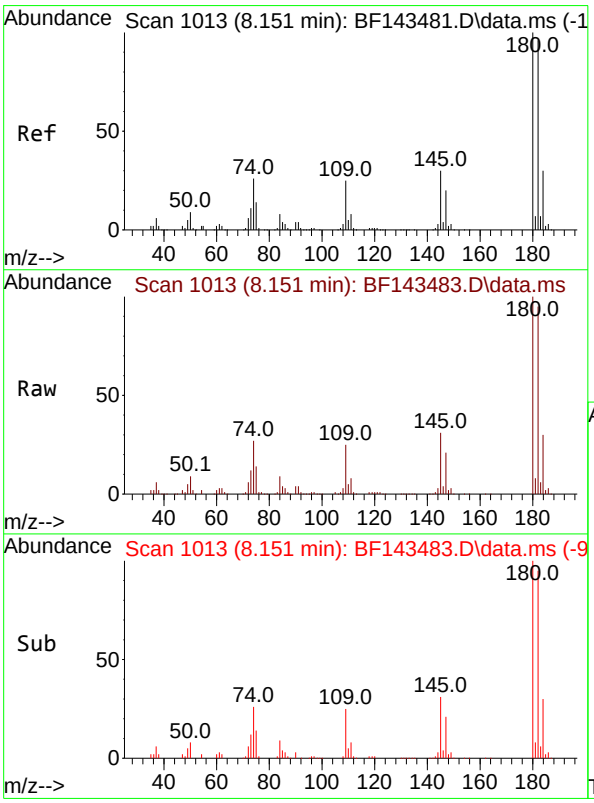
#29
2,4-Dichlorophenol
Concen: 59.031 ng
RT: 8.075 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:162 Resp: 403885

Ion	Ratio	Lower	Upper
162	100		
164	64.0	43.5	83.5
98	36.7	15.1	55.1

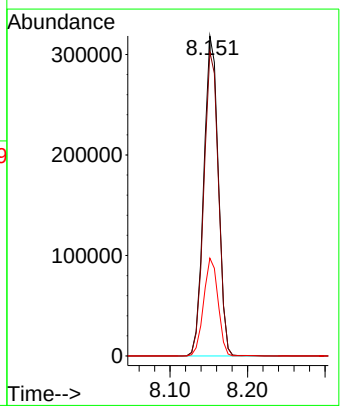


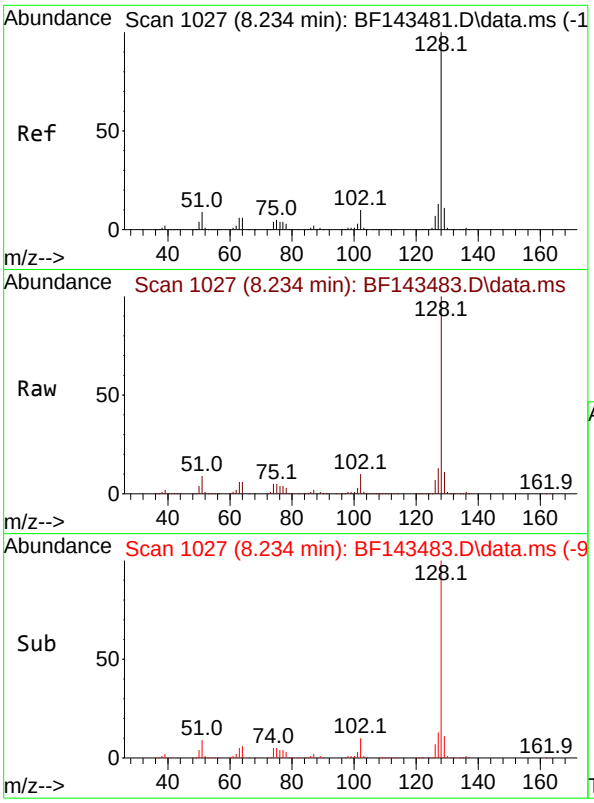


#30
1,2,4-Trichlorobenzene
Concen: 58.956 ng
RT: 8.151 min Scan# 1013
Delta R.T. 0.000 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Tgt Ion:180 Resp: 414723

Ion	Ratio	Lower	Upper
180	100		
182	95.0	76.6	114.8
145	30.6	24.3	36.5



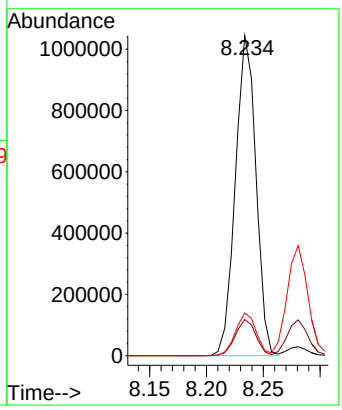


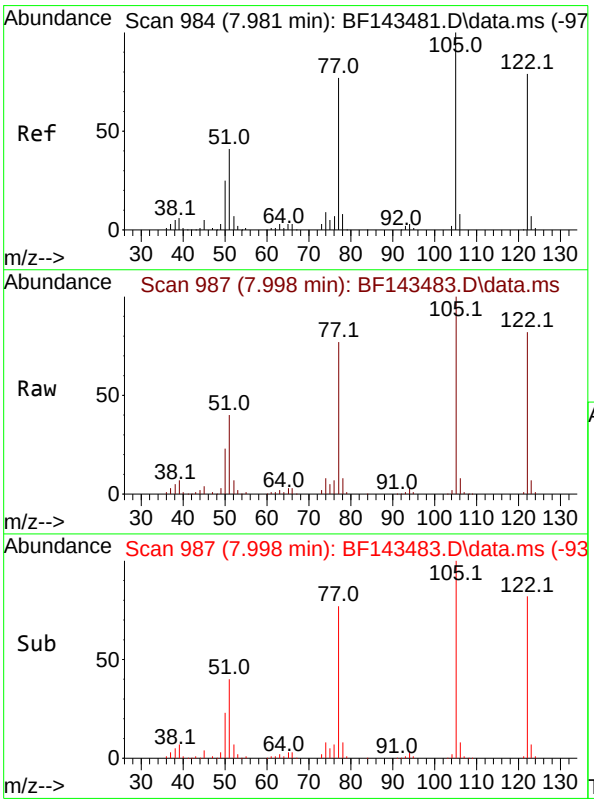
#31
Naphthalene
Concen: 57.551 ng
RT: 8.234 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:128 Resp: 1314277

Ion	Ratio	Lower	Upper
128	100		
129	11.3	8.8	13.2
127	13.4	10.6	16.0

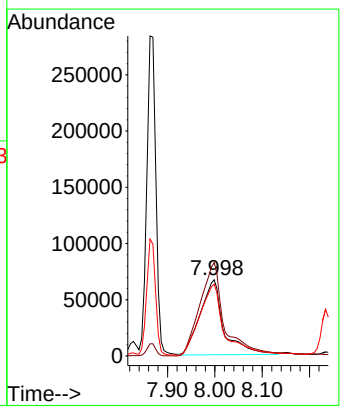


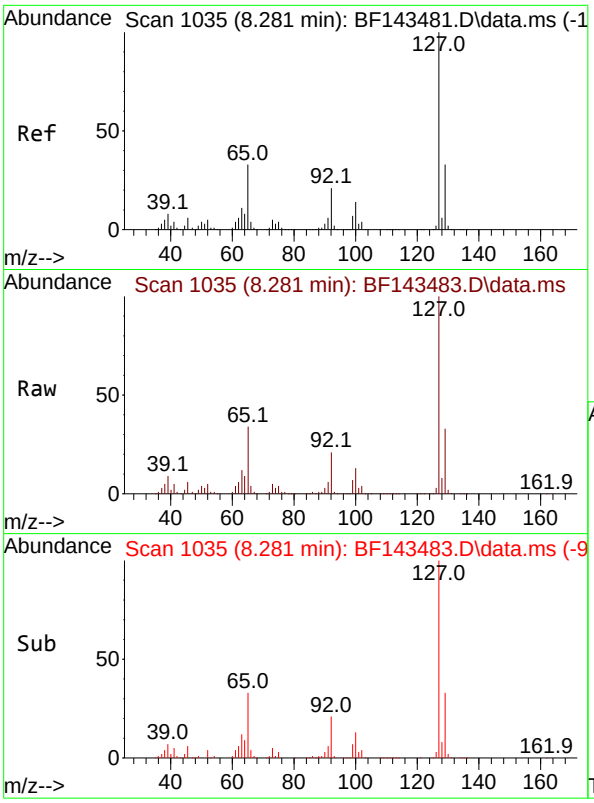


#32
Benzoic acid
Concen: 61.815 ng
RT: 7.998 min Scan# 987
Delta R.T. -0.012 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Tgt Ion:122 Resp: 232136

Ion	Ratio	Lower	Upper
122	100		
105	122.6	104.7	144.7
77	94.3	77.3	117.3



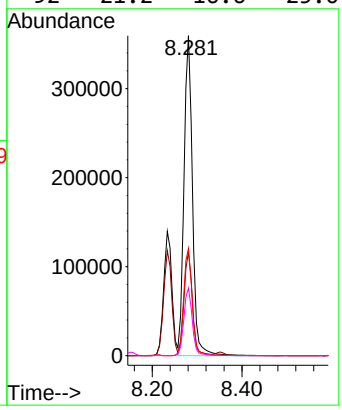


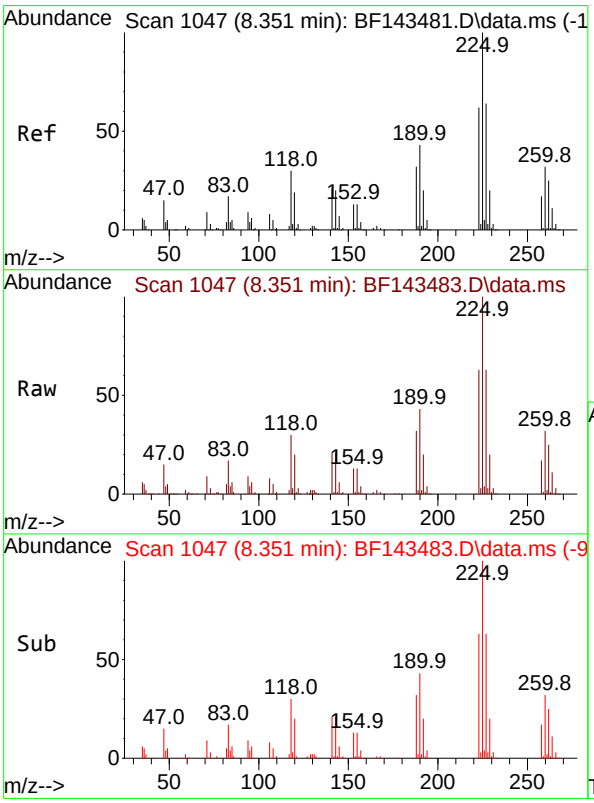
#33
4-Chloroaniline
Concen: 58.156 ng
RT: 8.281 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:127 Resp: 471374

Ion	Ratio	Lower	Upper
127	100		
129	32.5	26.1	39.1
65	33.6	26.2	39.2
92	21.2	16.6	25.0

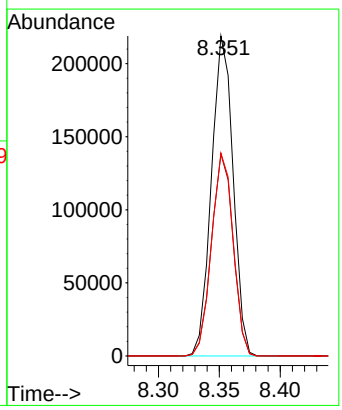


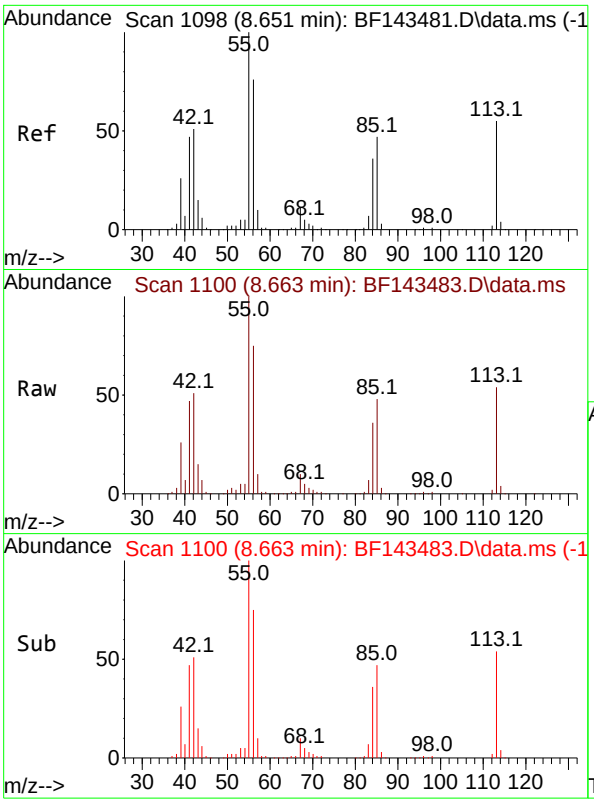


#34
Hexachlorobutadiene
Concen: 58.968 ng
RT: 8.351 min Scan# 1047
Delta R.T. 0.000 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Tgt Ion:225 Resp: 270626

Ion	Ratio	Lower	Upper
225	100		
223	63.1	49.9	74.9
227	63.4	50.9	76.3



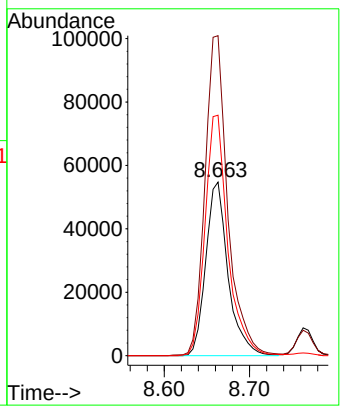


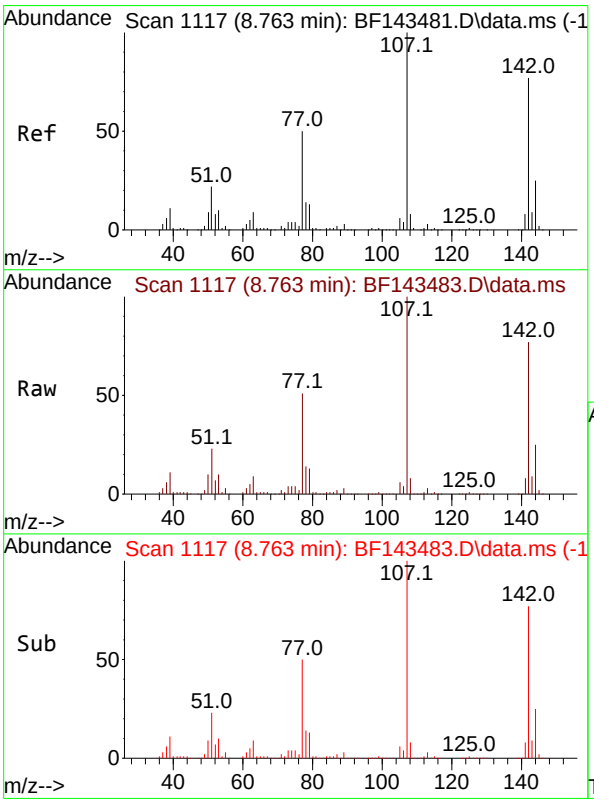
#35
Caprolactam
Concen: 60.607 ng
RT: 8.663 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:113 Resp: 99502

Ion	Ratio	Lower	Upper
113	100		
55	184.3	162.8	202.8
56	138.6	118.1	158.1

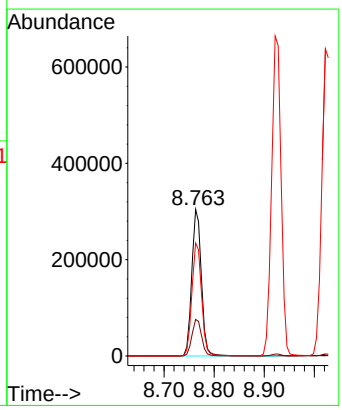


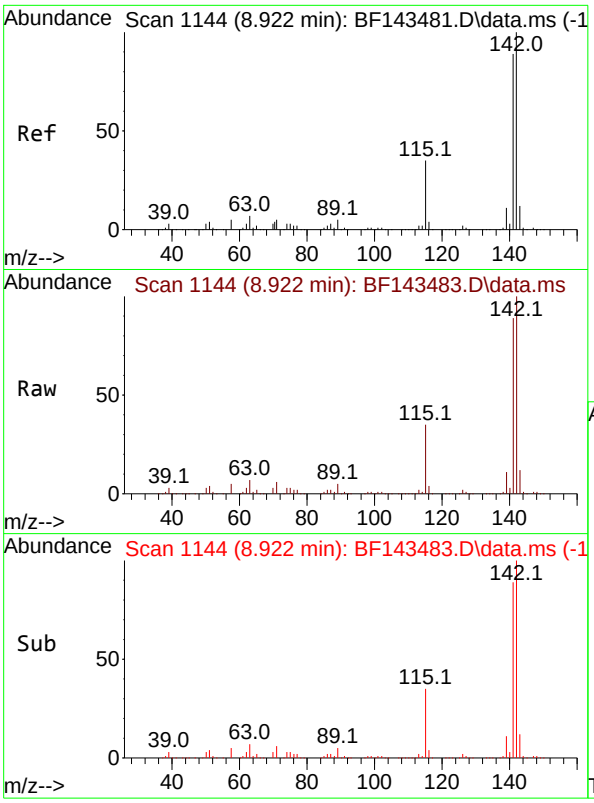


#36
4-Chloro-3-methylphenol
Concen: 59.020 ng
RT: 8.763 min Scan# 1117
Delta R.T. -0.006 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Tgt Ion:107 Resp: 404673

Ion	Ratio	Lower	Upper
107	100		
144	25.0	19.9	29.9
142	77.1	61.8	92.8



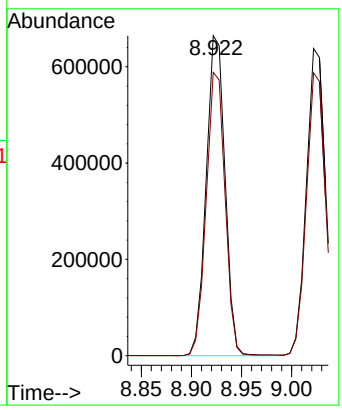


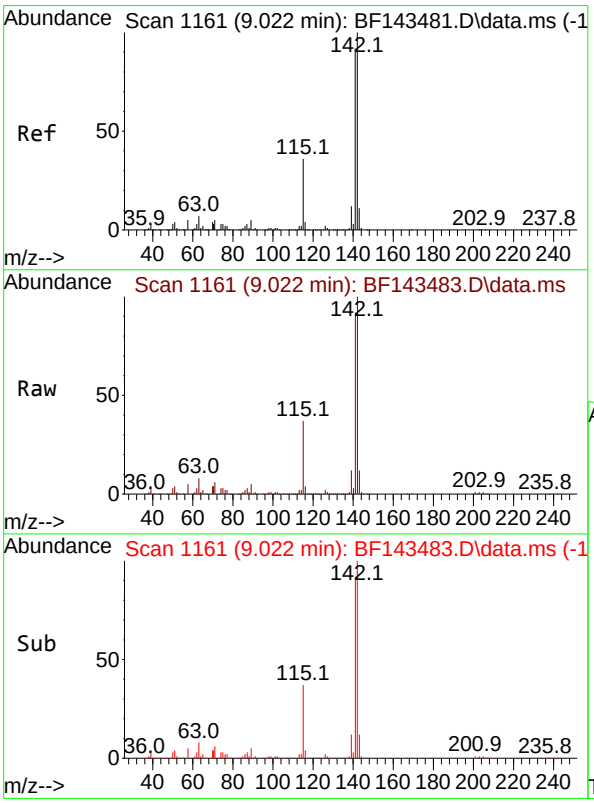
#37
2-Methylnaphthalene
Concen: 57.034 ng
RT: 8.922 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:142 Resp: 869902

Ion	Ratio	Lower	Upper
142	100		
141	88.5	71.0	106.4

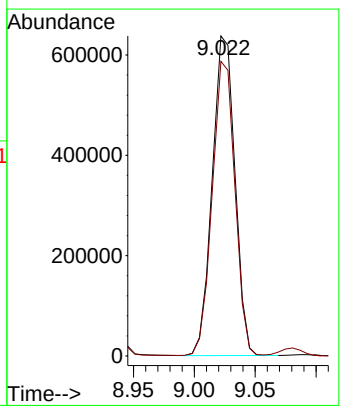


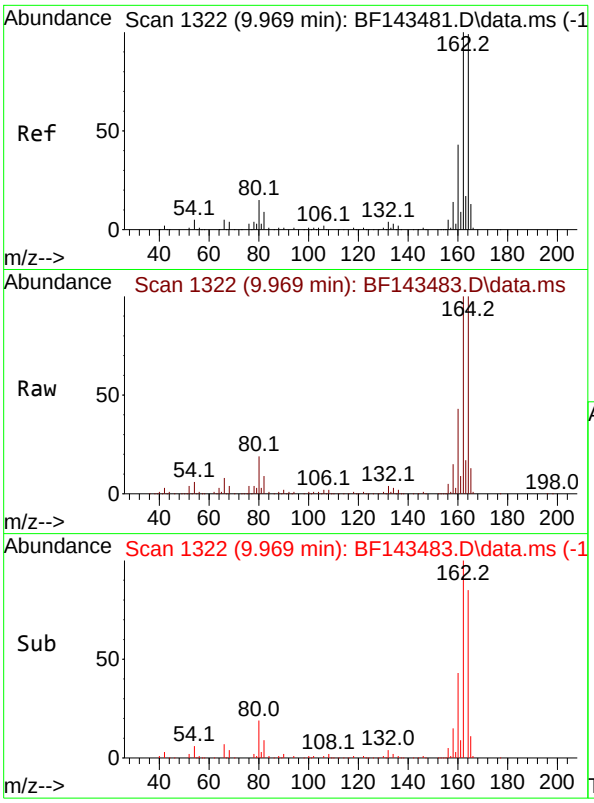


#38
1-Methylnaphthalene
Concen: 56.776 ng
RT: 9.022 min Scan# 1161
Delta R.T. -0.006 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Tgt Ion:142 Resp: 828346

Ion	Ratio	Lower	Upper
142	100		
141	92.1	73.3	109.9



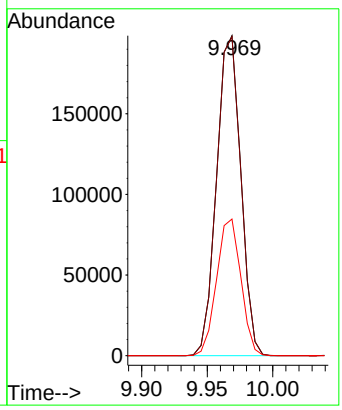


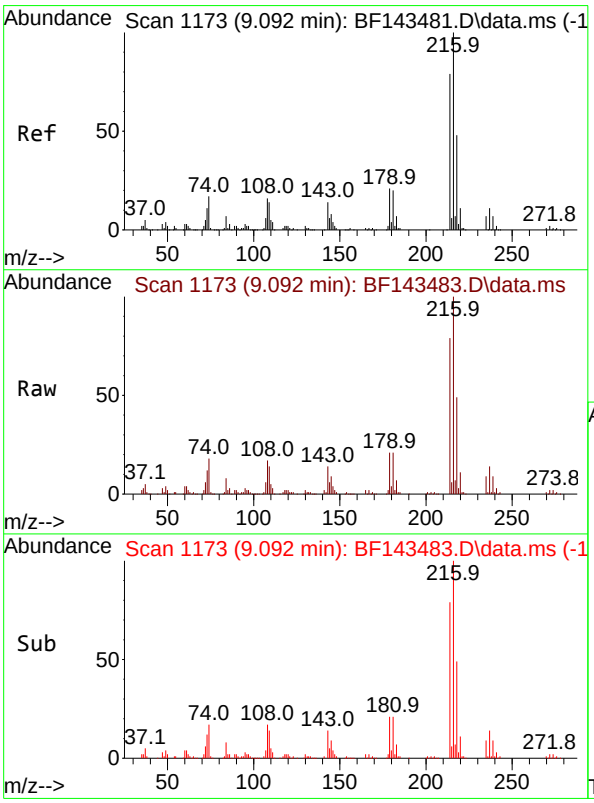
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:164 Resp: 254778

Ion	Ratio	Lower	Upper
164	100		
162	99.7	80.5	120.7
160	42.7	34.3	51.5

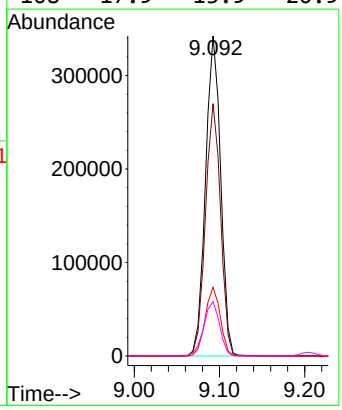


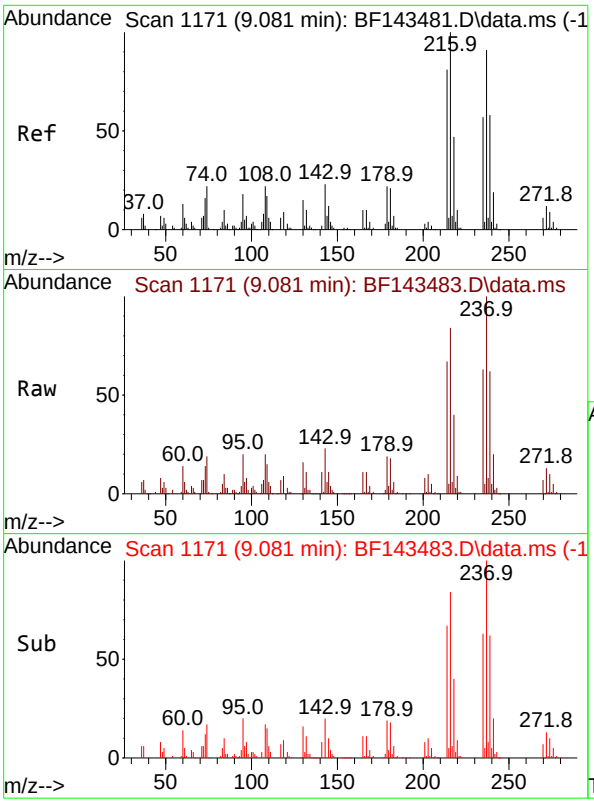


#40
1,2,4,5-Tetrachlorobenzene
Concen: 57.894 ng
RT: 9.092 min Scan# 1173
Delta R.T. 0.000 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Tgt Ion:216 Resp: 421909

Ion	Ratio	Lower	Upper
216	100		
214	78.8	63.4	95.0
179	21.3	16.5	24.7
108	17.9	13.9	20.9



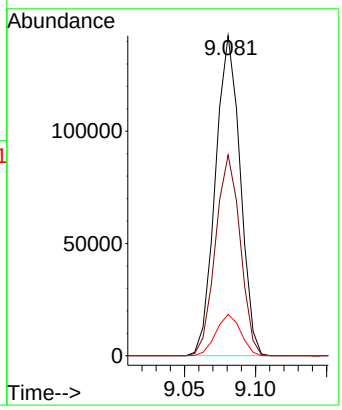


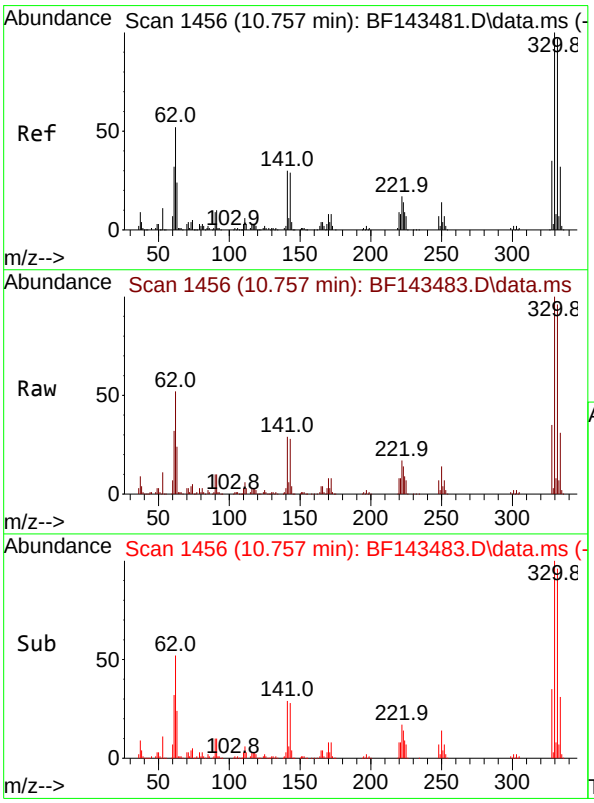
#41
Hexachlorocyclopentadiene
Concen: 62.497 ng
RT: 9.081 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:237 Resp: 172625

Ion	Ratio	Lower	Upper
237	100		
235	62.8	42.6	82.6
272	12.9	0.0	33.4

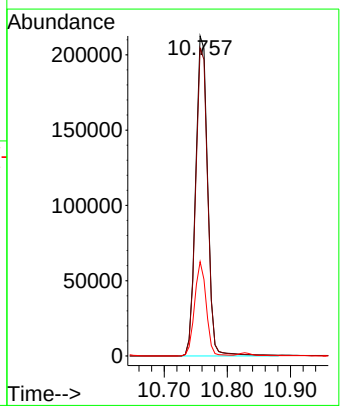


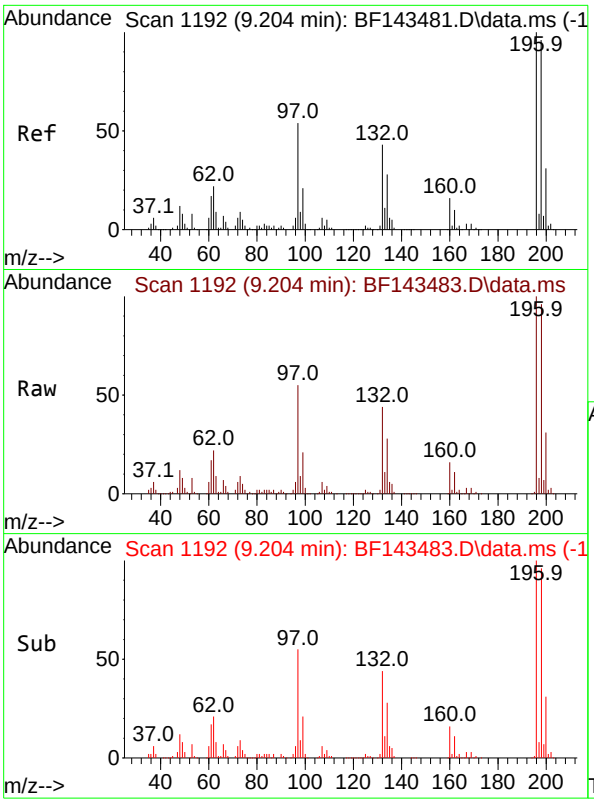


#42
2,4,6-Tribromophenol
Concen: 118.410 ng
RT: 10.757 min Scan# 1456
Delta R.T. -0.006 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Tgt Ion:330 Resp: 280822

Ion	Ratio	Lower	Upper
330	100		
332	96.6	78.0	117.0
141	28.5	23.7	35.5



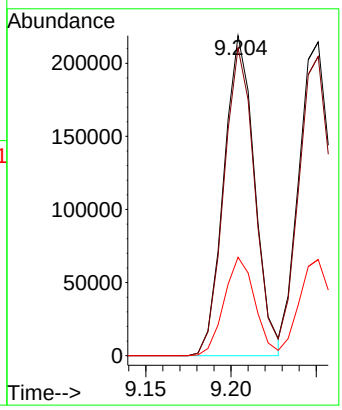


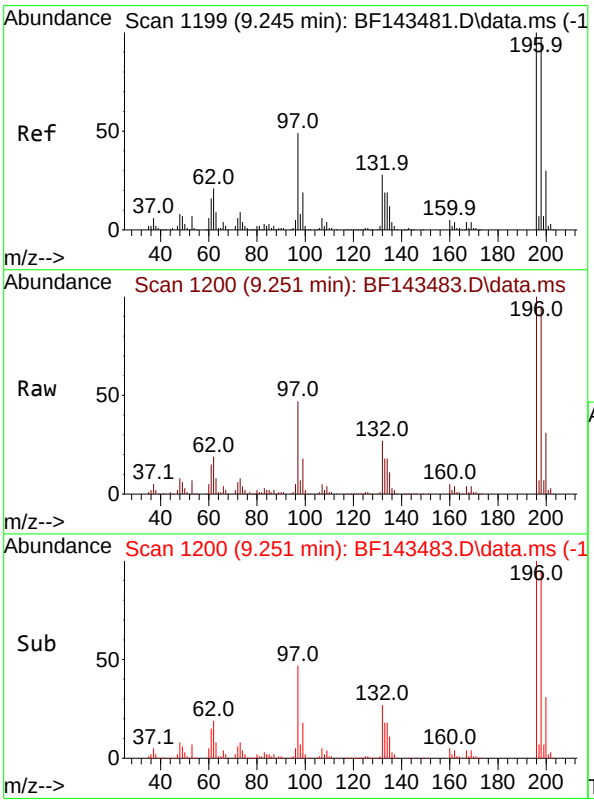
#43
2,4,6-Trichlorophenol
Concen: 61.437 ng
RT: 9.204 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:196 Resp: 275502

Ion	Ratio	Lower	Upper
196	100		
198	96.2	77.0	115.4
200	30.7	24.6	37.0

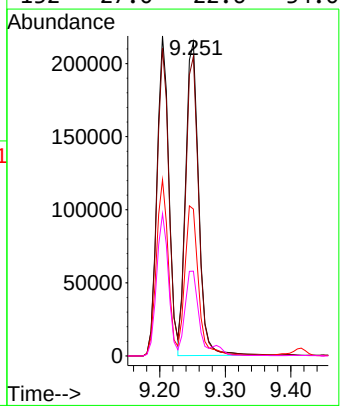


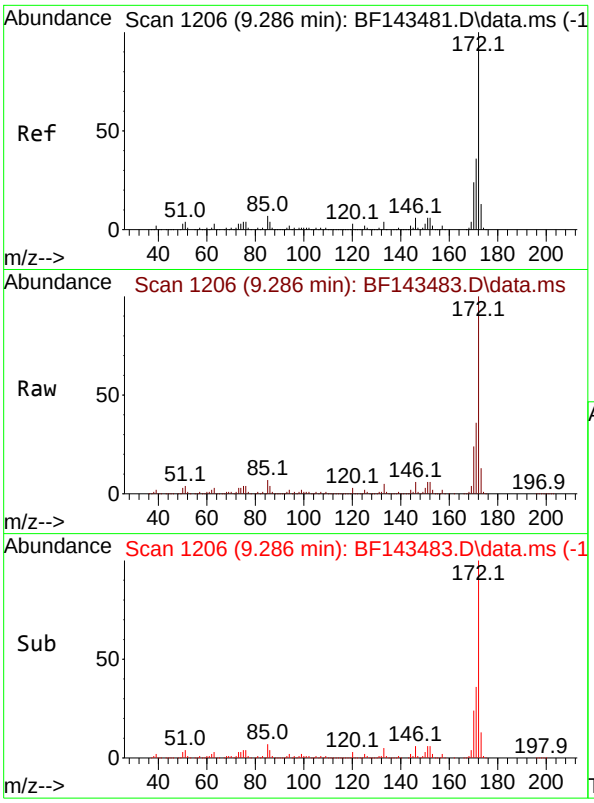


#44
2,4,5-Trichlorophenol
Concen: 60.345 ng
RT: 9.251 min Scan# 1200
Delta R.T. 0.000 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Tgt Ion:196 Resp: 295585

Ion	Ratio	Lower	Upper
196	100		
198	95.3	77.3	115.9
97	46.8	40.0	60.0
132	27.0	22.6	34.0



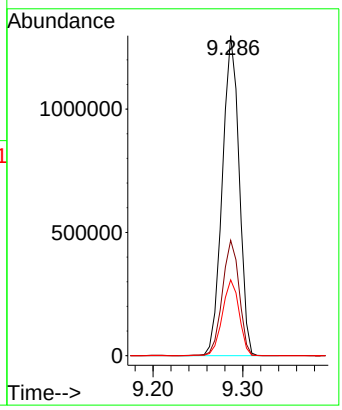


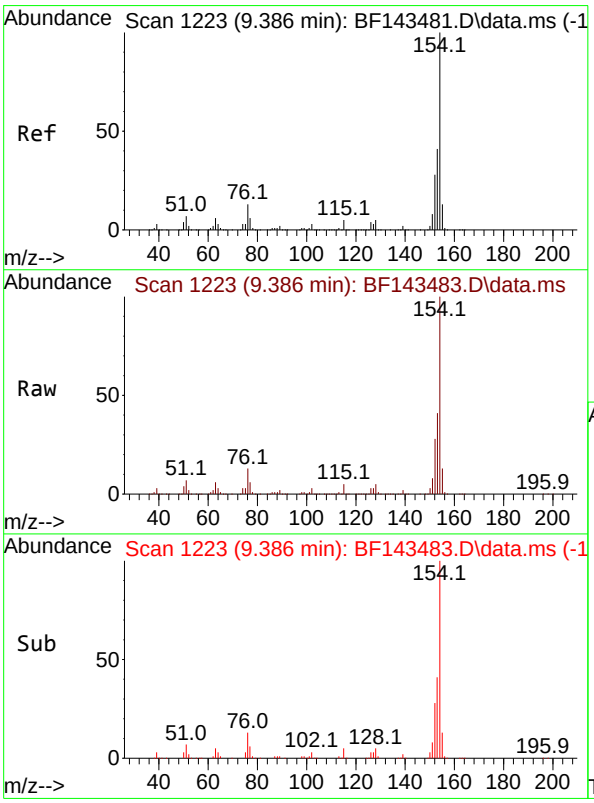
#45
2-Fluorobiphenyl
Concen: 109.642 ng
RT: 9.286 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:172 Resp: 1690255

Ion	Ratio	Lower	Upper
172	100		
171	36.1	28.8	43.2
170	23.7	18.8	28.2

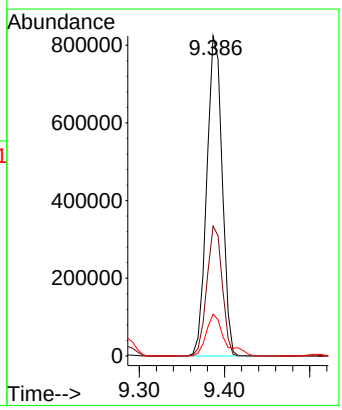


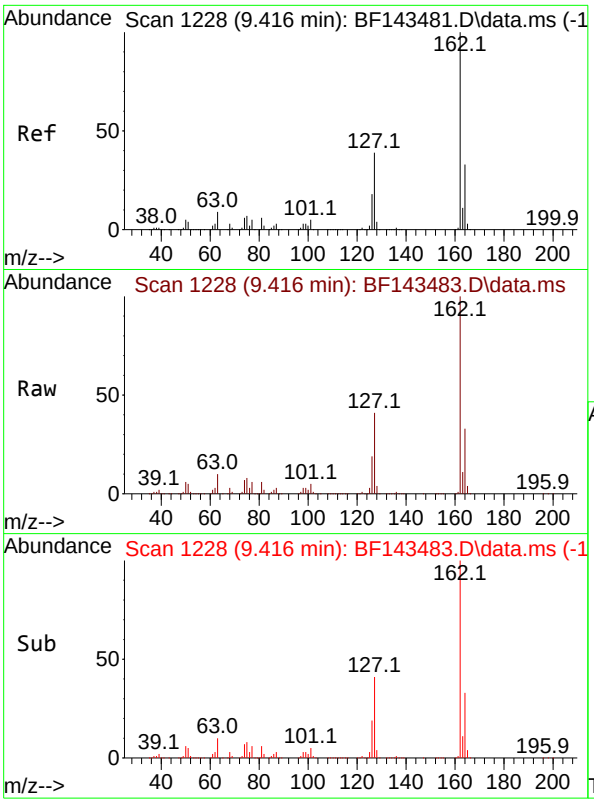


#46
1,1'-Biphenyl
Concen: 57.031 ng
RT: 9.386 min Scan# 1223
Delta R.T. -0.006 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Tgt Ion:154 Resp: 1031320

Ion	Ratio	Lower	Upper
154	100		
153	40.6	20.6	60.6
76	13.1	0.0	33.0



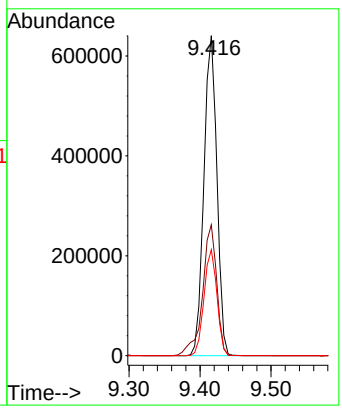


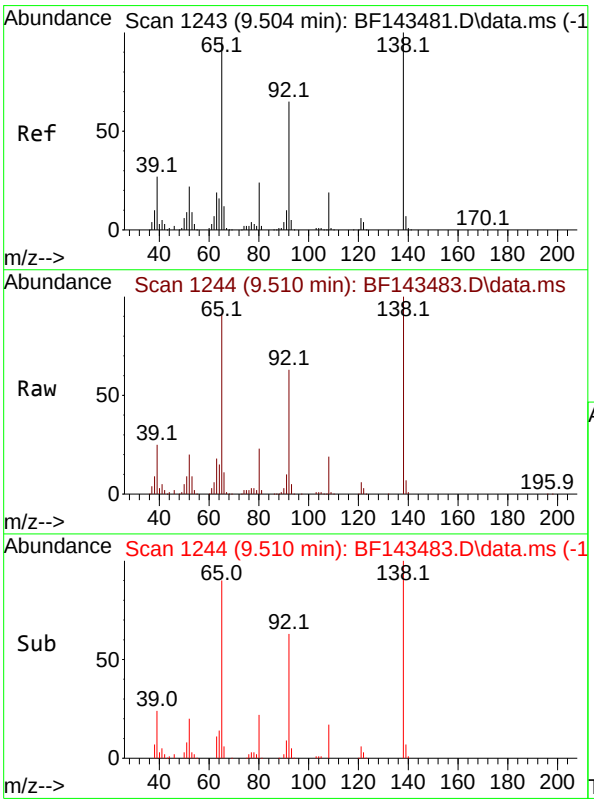
#47
2-Chloronaphthalene
Concen: 57.544 ng
RT: 9.416 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:162 Resp: 816474

Ion	Ratio	Lower	Upper
162	100		
127	40.9	31.8	47.6
164	33.1	26.4	39.6

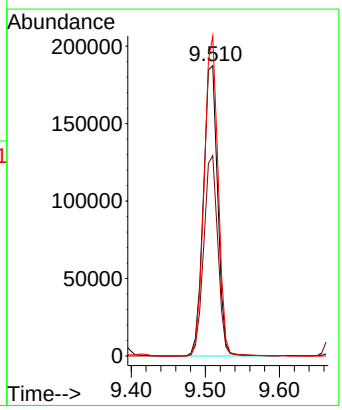


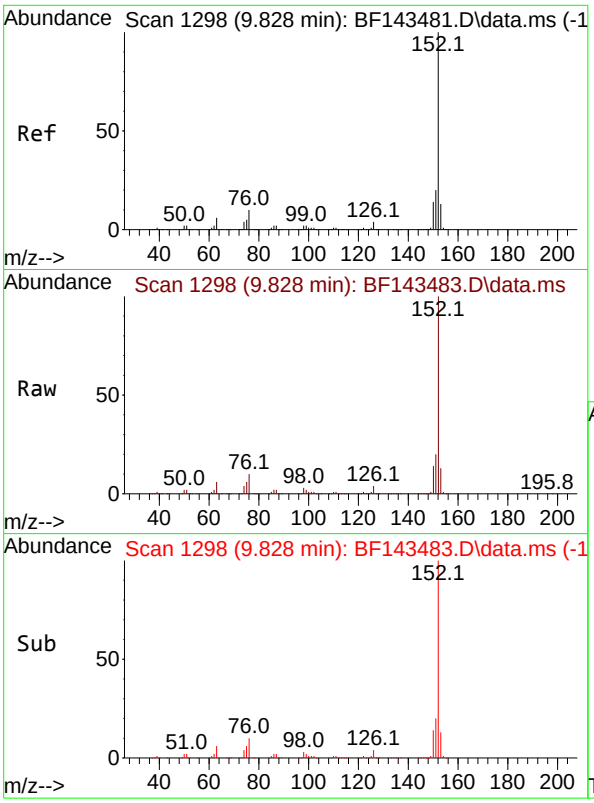


#48
2-Nitroaniline
Concen: 60.835 ng
RT: 9.510 min Scan# 1244
Delta R.T. 0.000 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Tgt Ion: 65 Resp: 252618

Ion	Ratio	Lower	Upper
65	100		
92	69.1	53.8	80.6
138	110.3	82.4	123.6



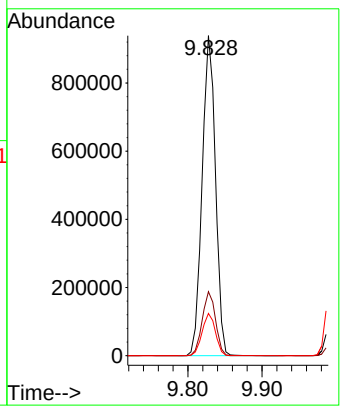


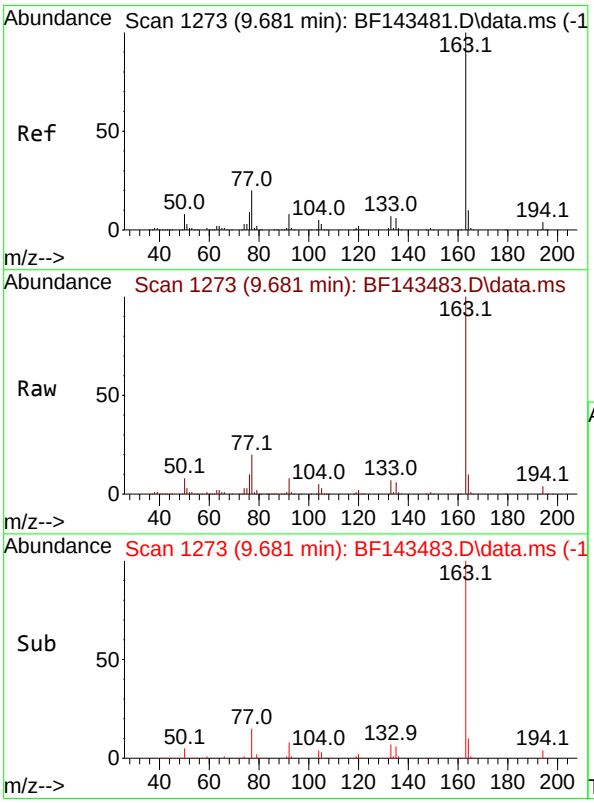
#49
Acenaphthylene
Concen: 57.687 ng
RT: 9.828 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:152 Resp: 1171986

Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.2	24.4
153	13.2	10.6	15.8

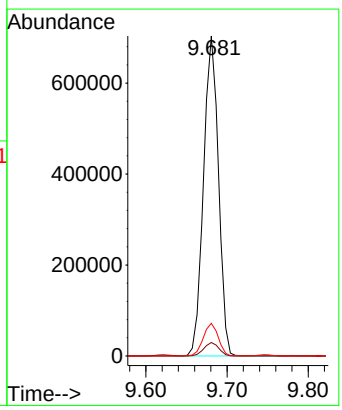


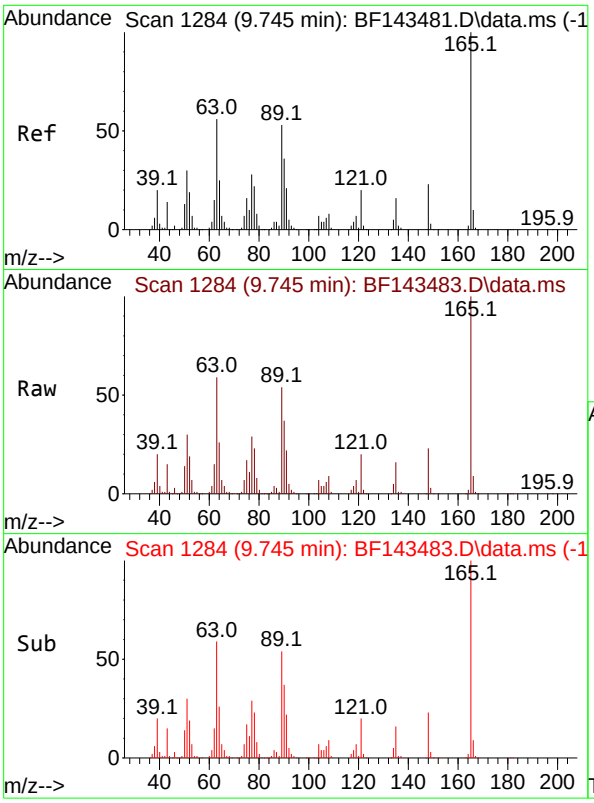


#50
Dimethylphthalate
Concen: 58.546 ng
RT: 9.681 min Scan# 1273
Delta R.T. 0.000 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Tgt Ion:163 Resp: 898362

Ion	Ratio	Lower	Upper
163	100		
194	4.2	3.4	5.0
164	10.2	8.2	12.2



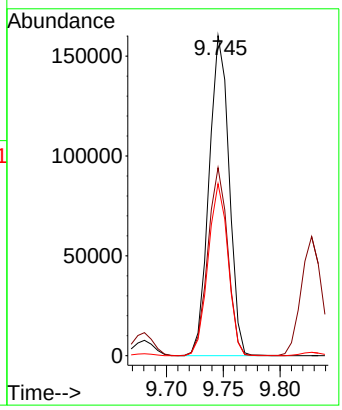


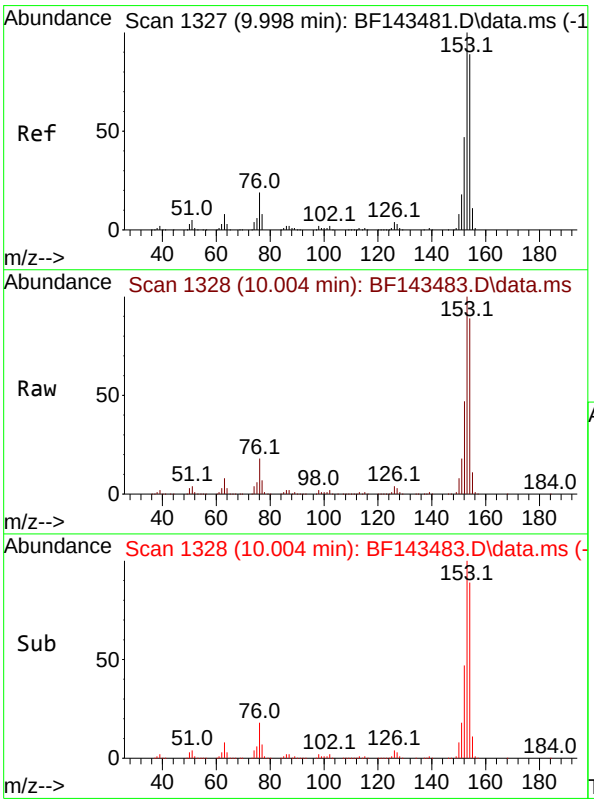
#51
2,6-Dinitrotoluene
Concen: 61.849 ng
RT: 9.745 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:165 Resp: 196694

Ion	Ratio	Lower	Upper
165	100		
63	58.8	45.0	67.6
89	53.7	42.5	63.7

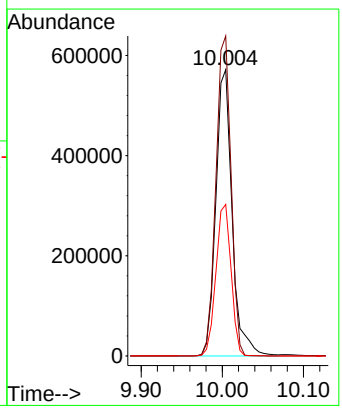


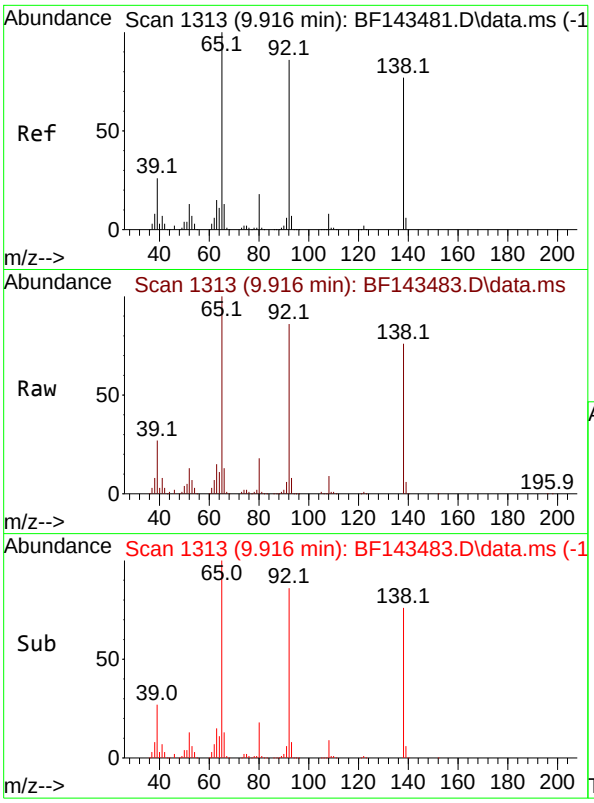


#52
Acenaphthene
Concen: 57.868 ng
RT: 10.004 min Scan# 1328
Delta R.T. 0.000 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Tgt Ion:154 Resp: 798226

Ion	Ratio	Lower	Upper
154	100		
153	111.8	89.5	134.3
152	53.0	42.5	63.7



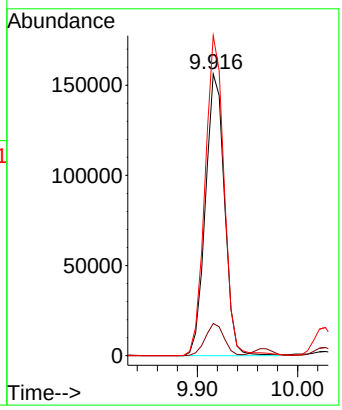


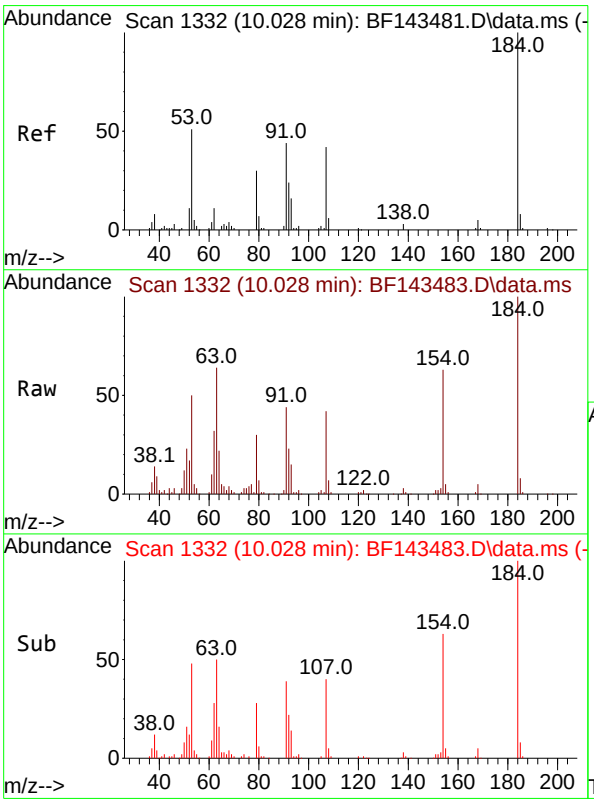
#53
3-Nitroaniline
Concen: 60.257 ng
RT: 9.916 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:138 Resp: 207068

Ion	Ratio	Lower	Upper
138	100		
108	11.4	8.6	13.0
92	113.6	89.8	134.8

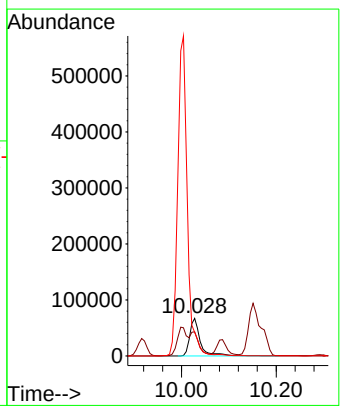


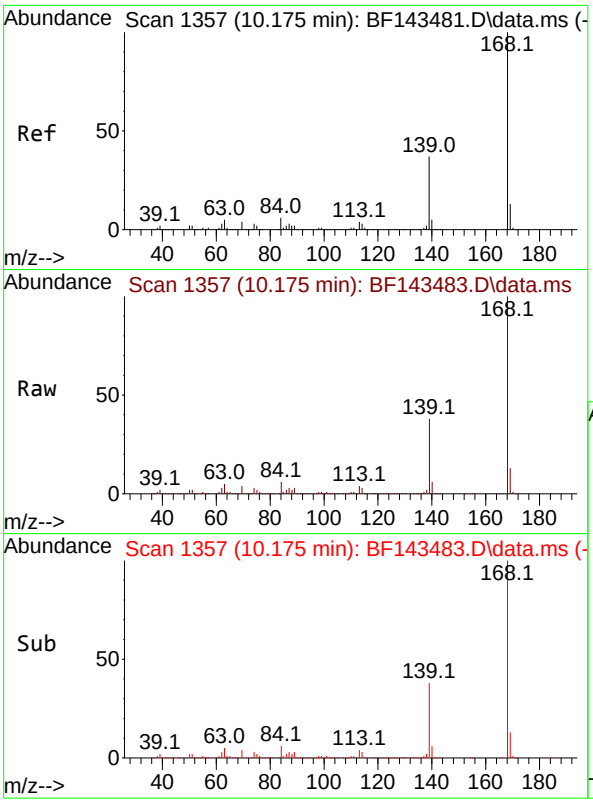


#54
2,4-Dinitrophenol
Concen: 62.986 ng
RT: 10.028 min Scan# 1332
Delta R.T. -0.000 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Tgt Ion:184 Resp: 105073

Ion	Ratio	Lower	Upper
184	100		
63	64.1	52.6	78.8
154	62.6	51.0	76.4



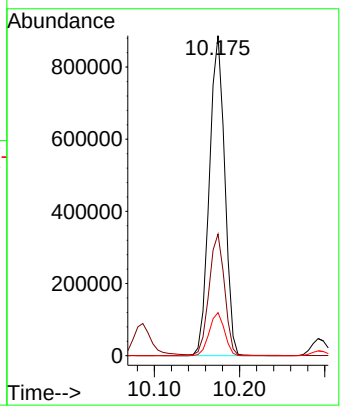


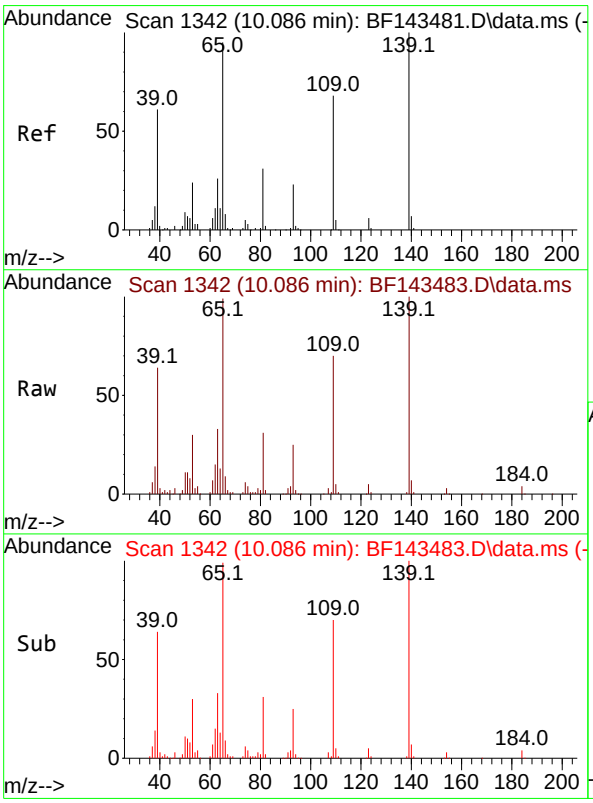
#55
Dibenzofuran
Concen: 56.463 ng
RT: 10.175 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:168 Resp: 1110414

Ion	Ratio	Lower	Upper
168	100		
139	38.0	29.8	44.6
169	13.4	10.8	16.2

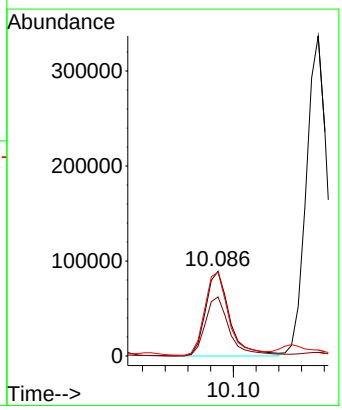


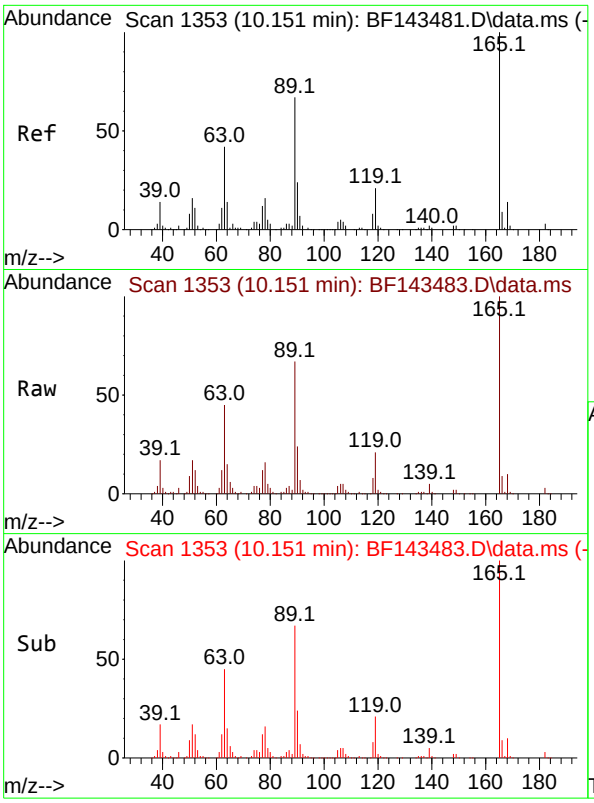


#56
4-Nitrophenol
Concen: 64.242 ng
RT: 10.086 min Scan# 1342
Delta R.T. 0.000 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Tgt Ion:139 Resp: 131356

Ion	Ratio	Lower	Upper
139	100		
109	69.7	48.2	88.2
65	99.0	75.8	115.8



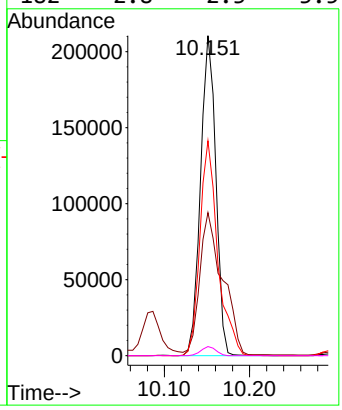


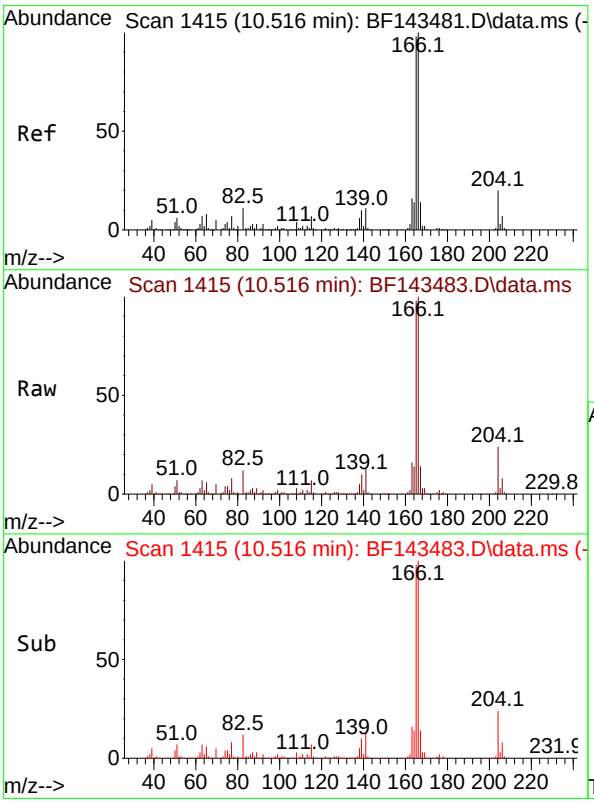
#57
2,4-Dinitrotoluene
Concen: 61.935 ng
RT: 10.151 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:165 Resp: 263001

Ion	Ratio	Lower	Upper
165	100		
63	44.7	34.9	52.3
89	67.1	53.3	79.9
182	2.8	2.3	3.5

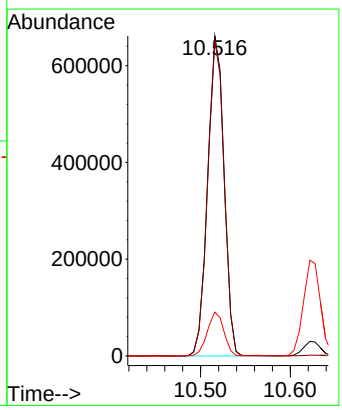


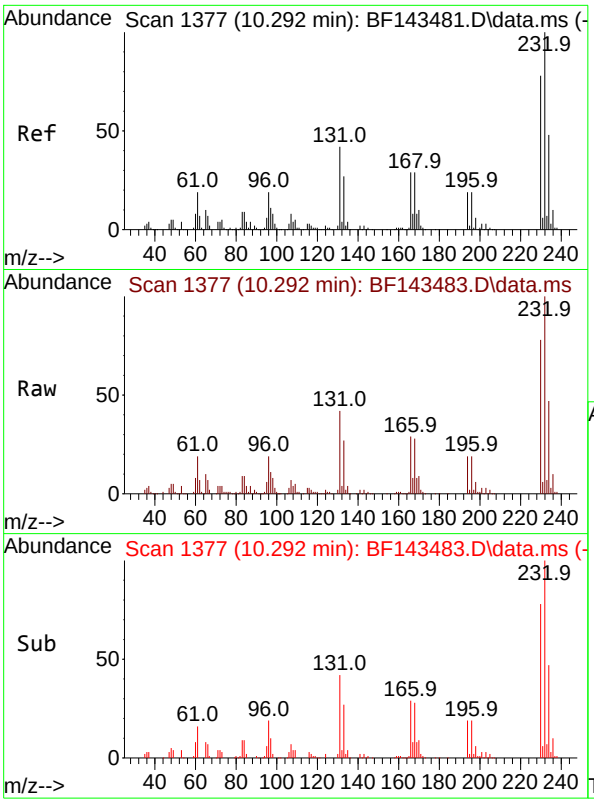


#58
Fluorene
Concen: 55.641 ng
RT: 10.516 min Scan# 1415
Delta R.T. -0.006 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Tgt Ion:166 Resp: 842185

Ion	Ratio	Lower	Upper
166	100		
165	98.4	78.3	117.5
167	13.7	11.0	16.4



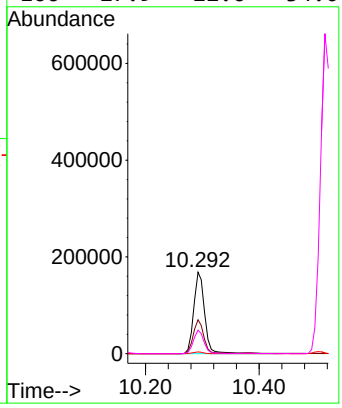


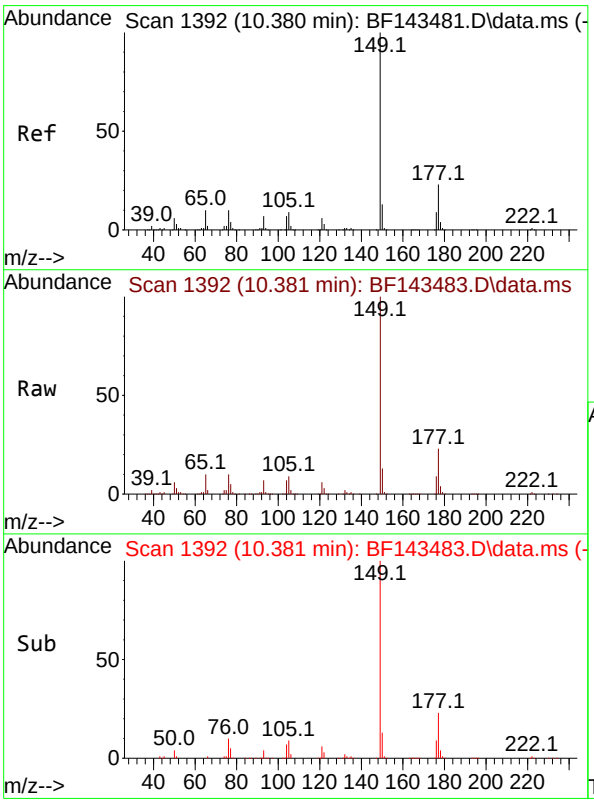
#59
2,3,4,6-Tetrachlorophenol
Concen: 62.306 ng
RT: 10.292 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:232 Resp: 226735

Ion	Ratio	Lower	Upper
232	100		
131	40.1	32.7	49.1
130	2.0	1.6	2.4
166	27.9	22.6	34.0

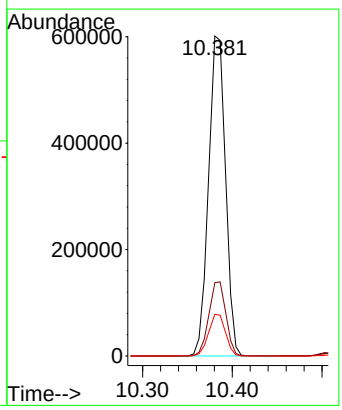


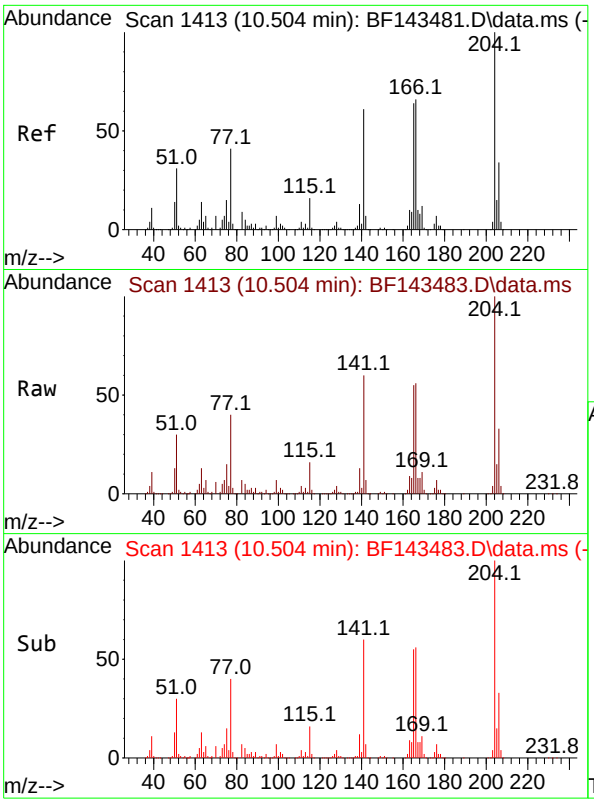


#60
Diethylphthalate
Concen: 57.538 ng
RT: 10.381 min Scan# 1392
Delta R.T. -0.006 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Tgt Ion:149 Resp: 791582

Ion	Ratio	Lower	Upper
149	100		
177	22.9	18.3	27.5
150	13.0	10.3	15.5



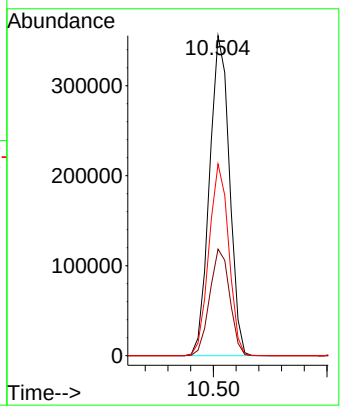


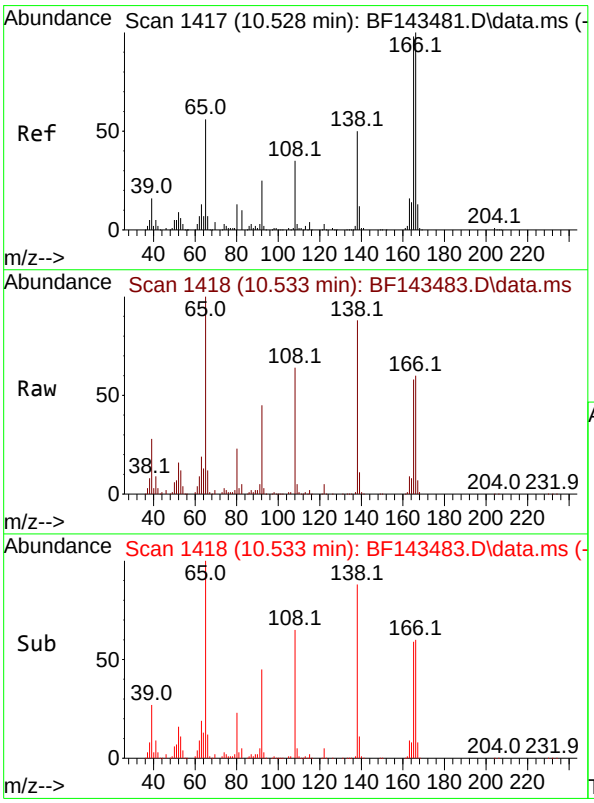
#61
4-Chlorophenyl-phenylether
Concen: 57.247 ng
RT: 10.504 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:204 Resp: 433351

Ion	Ratio	Lower	Upper
204	100		
206	33.3	27.0	40.4
141	59.9	48.7	73.1

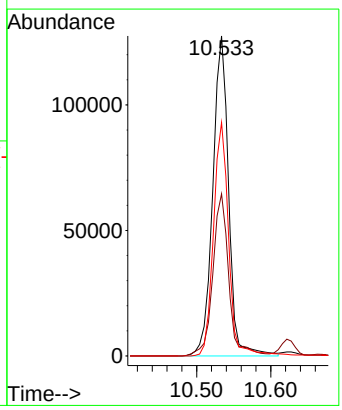


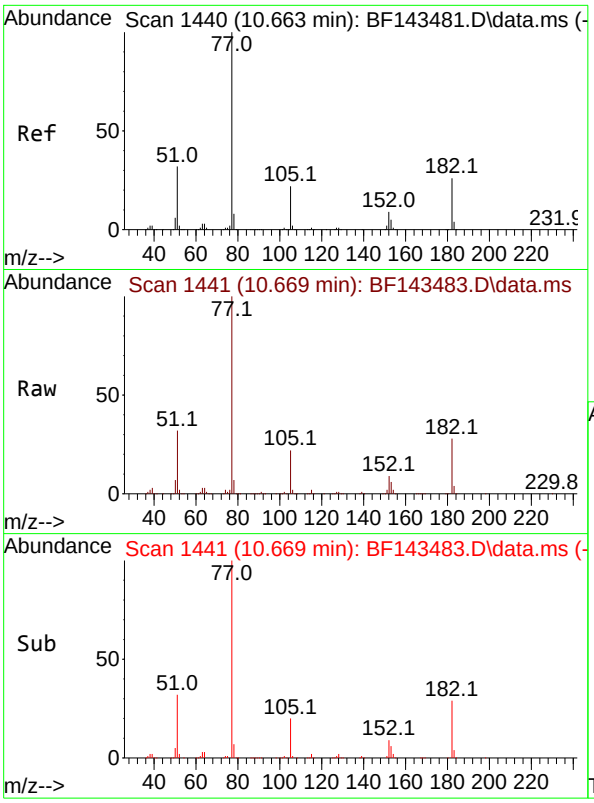


#62
4-Nitroaniline
Concen: 60.015 ng
RT: 10.533 min Scan# 1418
Delta R.T. -0.006 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Tgt Ion:138 Resp: 189435

Ion	Ratio	Lower	Upper
138	100		
92	50.6	29.3	69.3
108	73.0	50.7	90.7



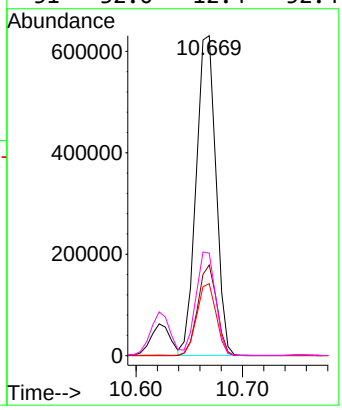


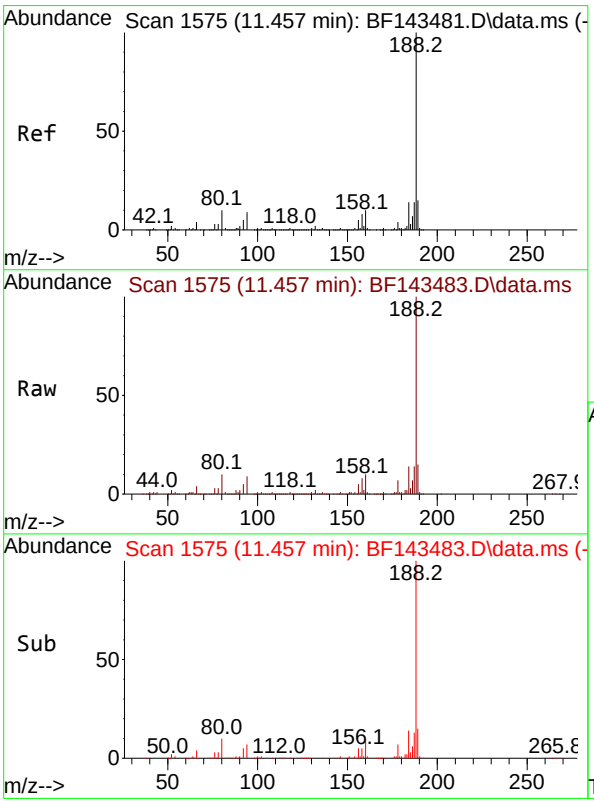
#63
Azobenzene
Concen: 57.158 ng
RT: 10.669 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 77 Resp: 815353

Ion	Ratio	Lower	Upper
77	100		
182	28.4	6.2	46.2
105	22.5	2.2	42.2
51	32.0	12.4	52.4

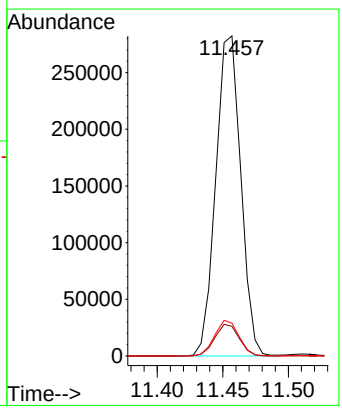


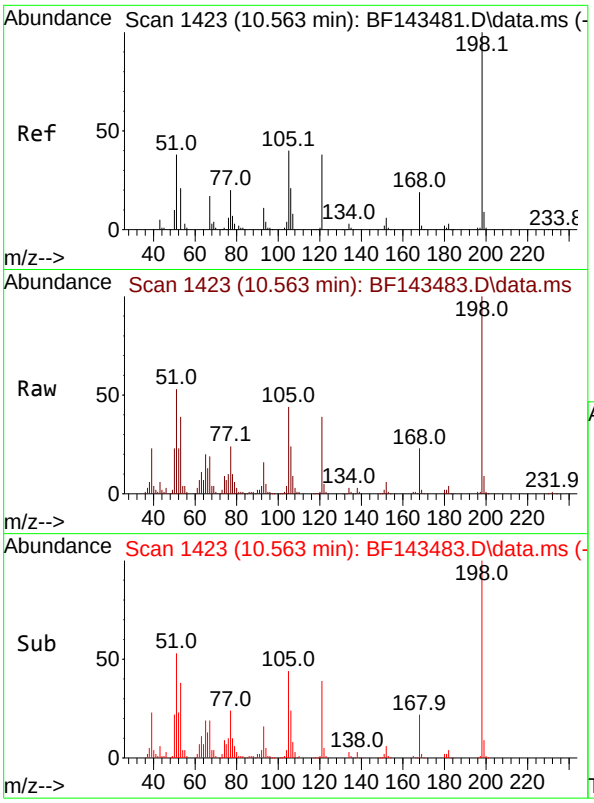


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.457 min Scan# 1575
Delta R.T. 0.000 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Tgt Ion:188 Resp: 374631

Ion	Ratio	Lower	Upper
188	100		
94	9.2	7.4	11.2
80	10.2	8.2	12.4



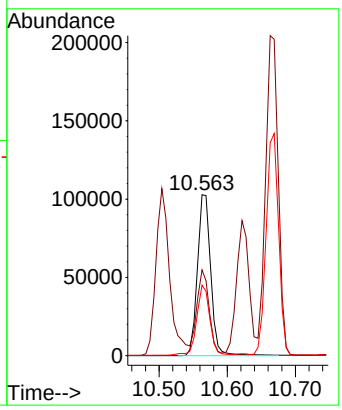


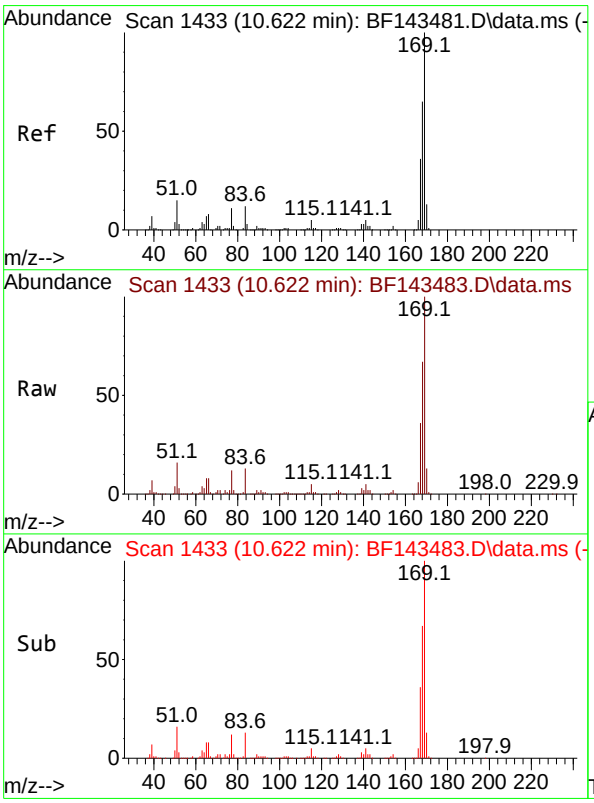
#65
4,6-Dinitro-2-methylphenol
Concen: 66.197 ng
RT: 10.563 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:198 Resp: 139830

Ion	Ratio	Lower	Upper
198	100		
51	53.3	29.6	69.6
105	43.7	21.5	61.5

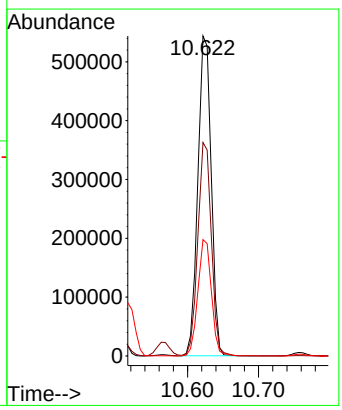


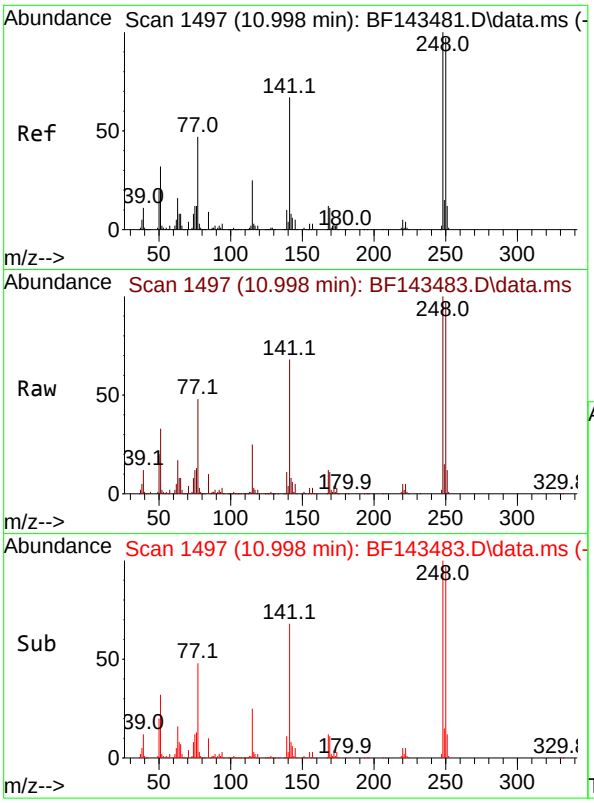


#66
n-Nitrosodiphenylamine
Concen: 59.270 ng
RT: 10.622 min Scan# 1433
Delta R.T. -0.006 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Tgt Ion:169 Resp: 714577

Ion	Ratio	Lower	Upper
169	100		
168	66.7	52.4	78.6
167	36.4	28.9	43.3



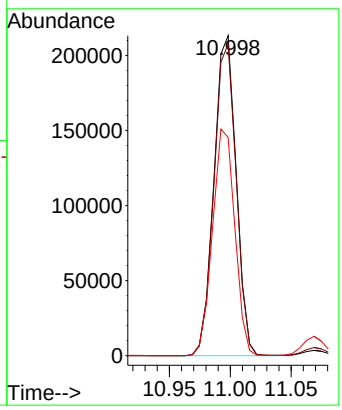


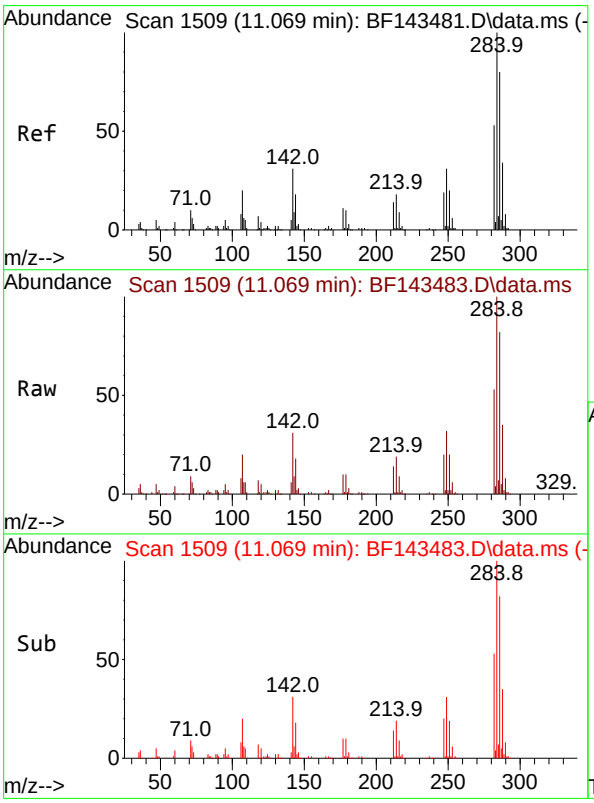
#67
4-Bromophenyl-phenylether
Concen: 60.454 ng
RT: 10.998 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:248 Resp: 270225

Ion	Ratio	Lower	Upper
248	100		
250	97.4	77.8	116.8
141	68.2	54.0	81.0

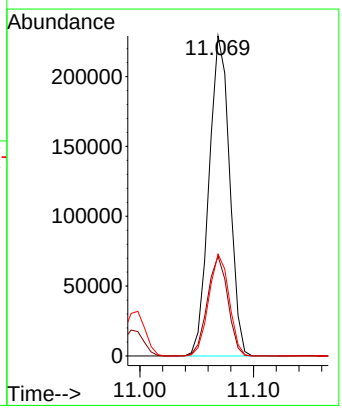


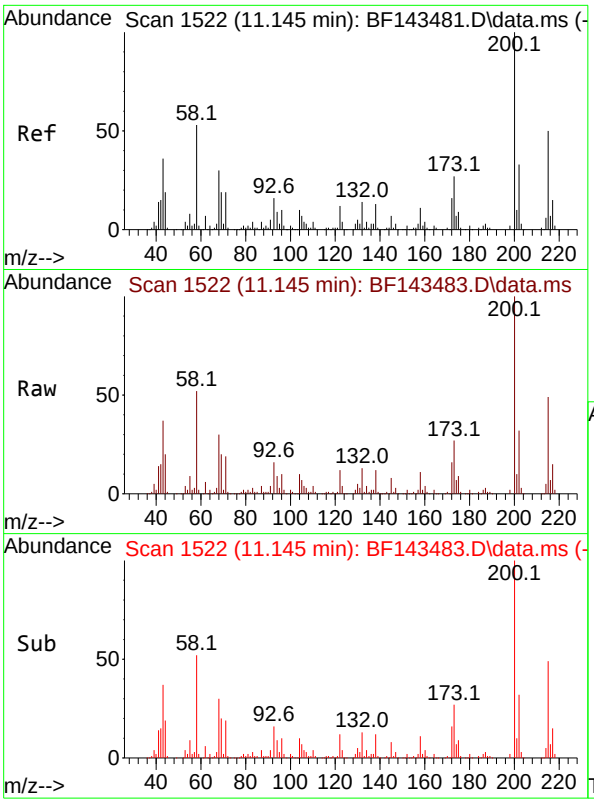


#68
Hexachlorobenzene
Concen: 59.797 ng
RT: 11.069 min Scan# 1509
Delta R.T. -0.006 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Tgt Ion:284 Resp: 288119

Ion	Ratio	Lower	Upper
284	100		
142	31.2	24.4	36.6
249	31.8	25.0	37.6



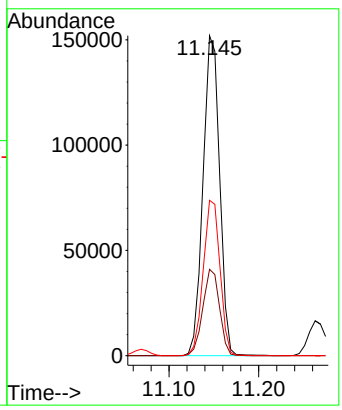


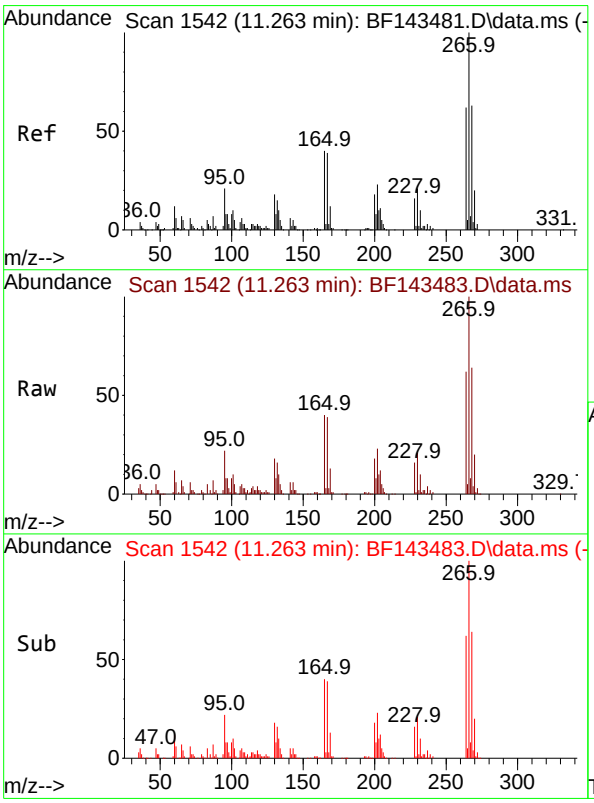
#69
Atrazine
Concen: 62.765 ng
RT: 11.145 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:200 Resp: 195334

Ion	Ratio	Lower	Upper
200	100		
173	27.0	6.9	46.9
215	48.5	30.0	70.0

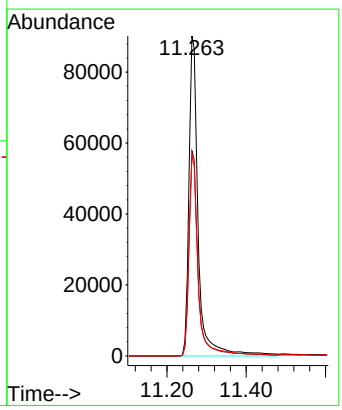


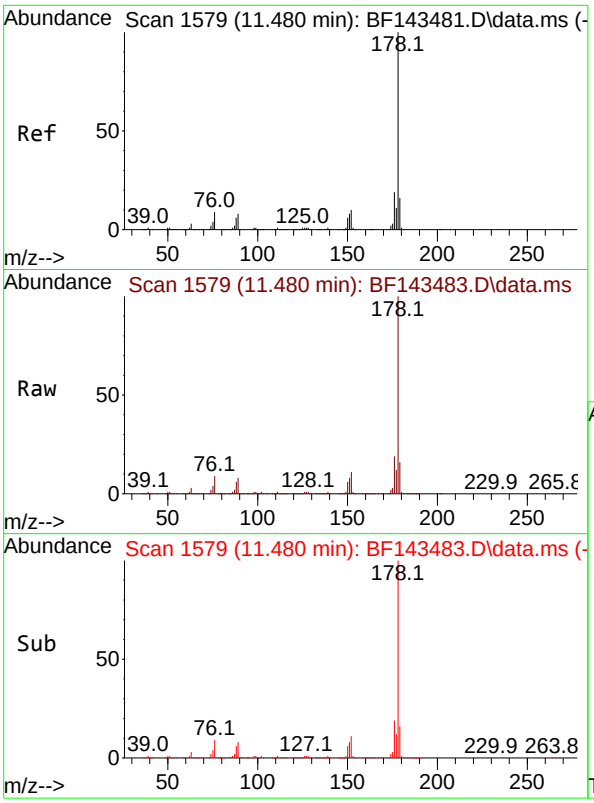


#70
Pentachlorophenol
Concen: 66.597 ng
RT: 11.263 min Scan# 1542
Delta R.T. -0.006 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Tgt Ion:266 Resp: 146959

Ion	Ratio	Lower	Upper
266	100		
268	64.0	50.5	75.7
264	62.5	49.8	74.8



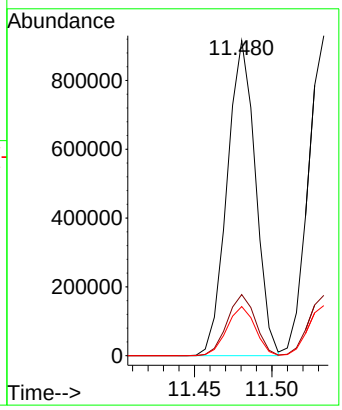


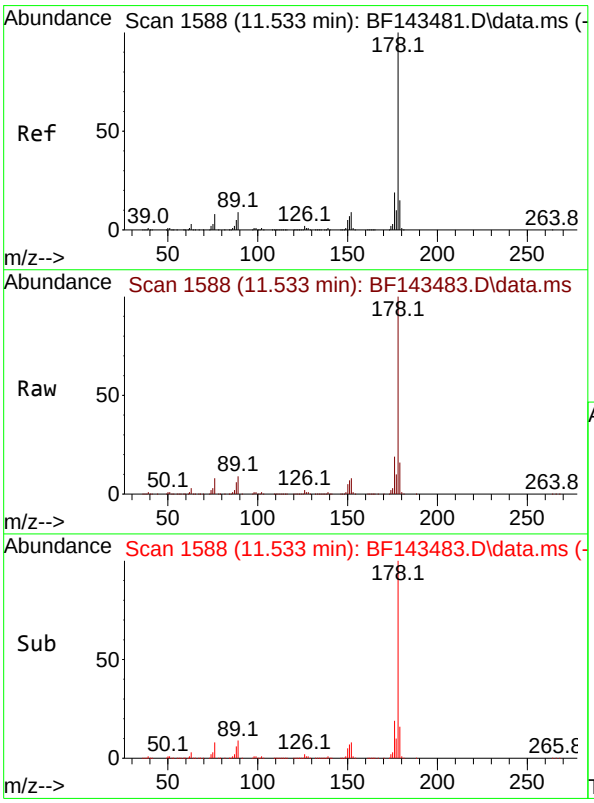
#71
Phenanthrene
Concen: 57.863 ng
RT: 11.480 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:178 Resp: 1160860

Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.5	23.3
179	15.6	12.5	18.7

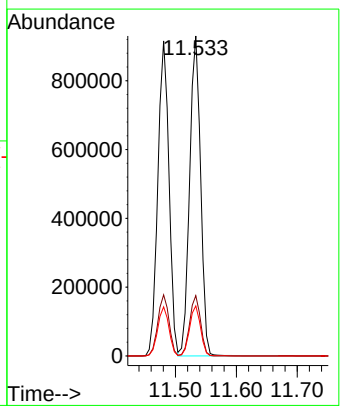


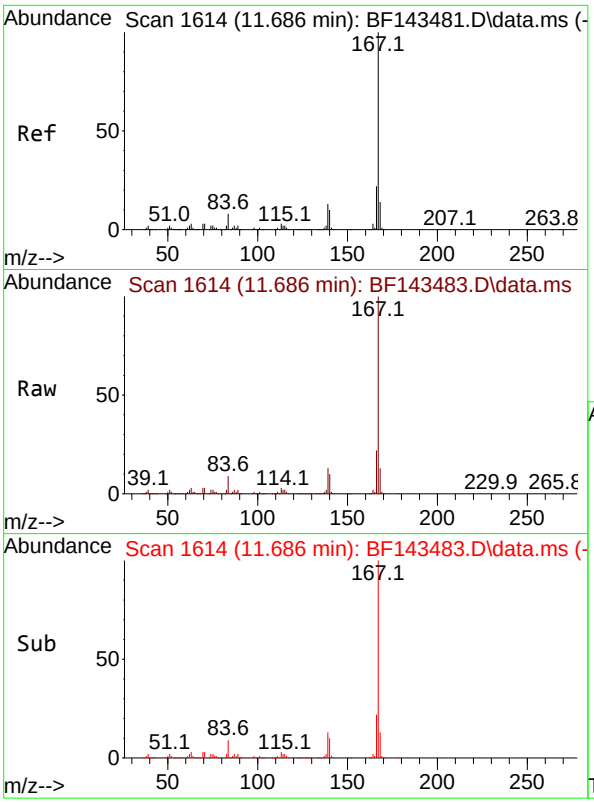


#72
Anthracene
Concen: 57.295 ng
RT: 11.533 min Scan# 1588
Delta R.T. 0.000 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Tgt Ion:178 Resp: 1164449

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.0	22.4
179	15.7	12.3	18.5



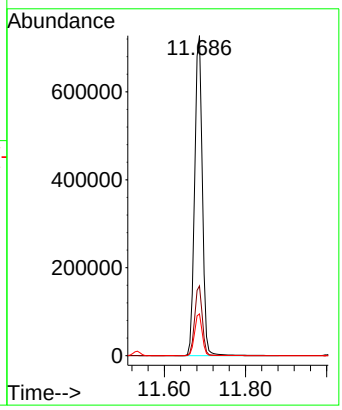


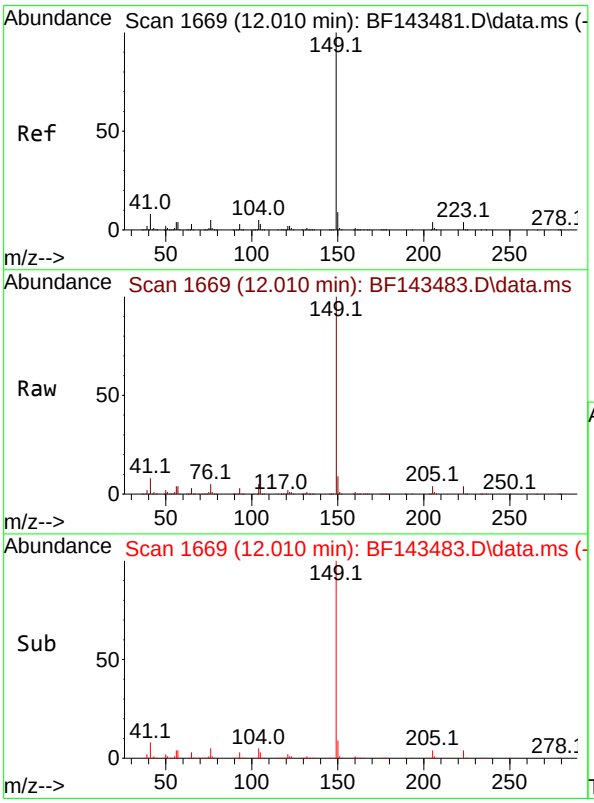
#73
Carbazole
Concen: 58.105 ng
RT: 11.686 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:167 Resp: 967633

Ion	Ratio	Lower	Upper
167	100		
166	21.8	17.3	25.9
139	13.0	10.0	15.0

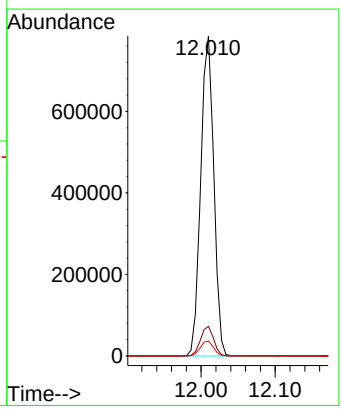


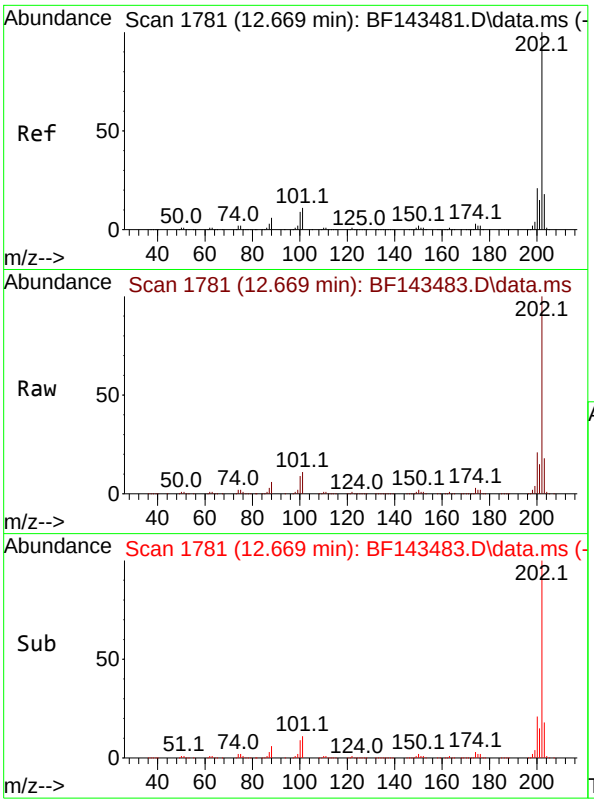


#74
Di-n-butylphthalate
Concen: 62.003 ng
RT: 12.010 min Scan# 1669
Delta R.T. 0.000 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Tgt Ion:149 Resp: 963249

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.2	10.8
104	4.7	3.6	5.4



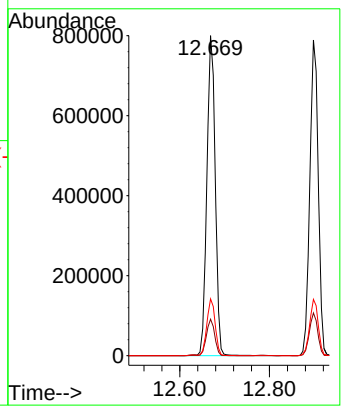


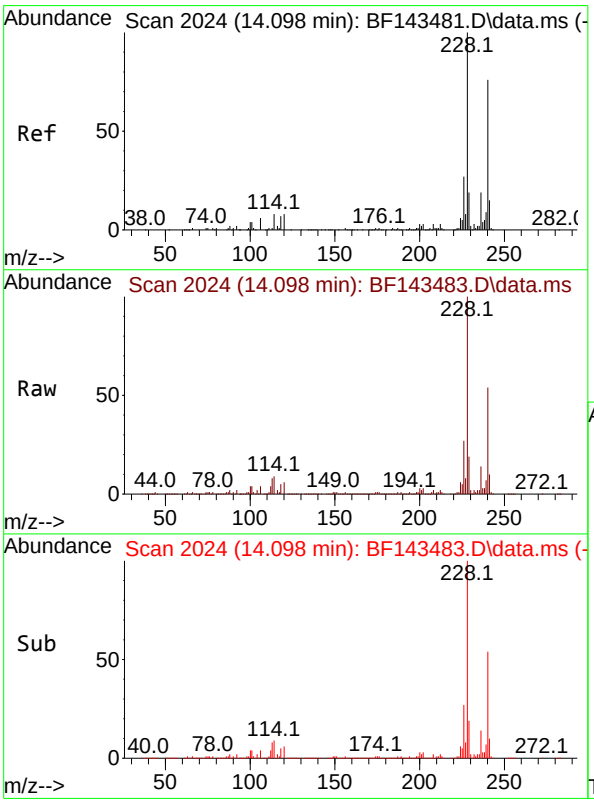
#75
Fluoranthene
Concen: 57.619 ng
RT: 12.669 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:202 Resp: 1037239

Ion	Ratio	Lower	Upper
202	100		
101	11.4	0.0	31.3
203	17.7	0.0	37.9

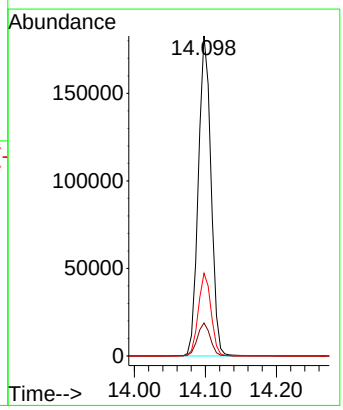


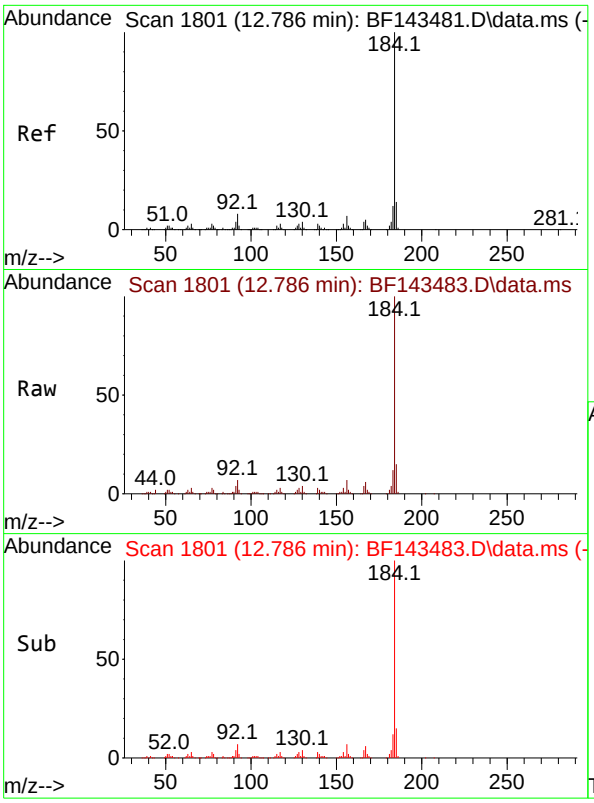


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.098 min Scan# 2024
Delta R.T. -0.006 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Tgt Ion:240 Resp: 227355

Ion	Ratio	Lower	Upper
240	100		
120	10.3	8.6	12.8
236	25.8	20.4	30.6



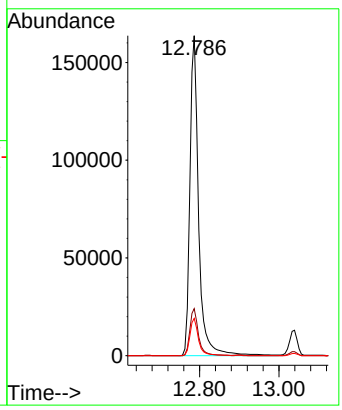


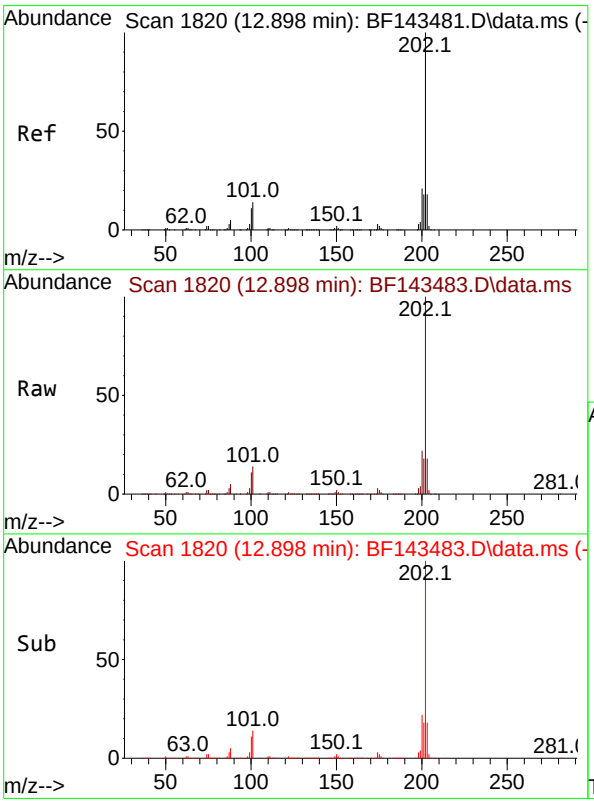
#77
Benzidine
Concen: 45.316 ng
RT: 12.786 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:184 Resp: 250962

Ion	Ratio	Lower	Upper
184	100		
185	14.7	11.3	16.9
183	11.6	9.5	14.3

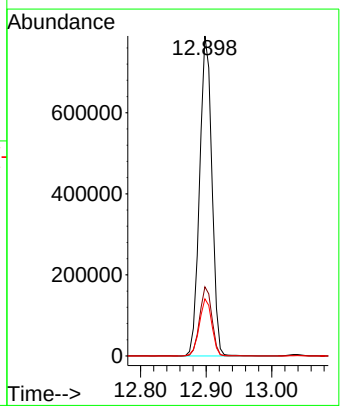


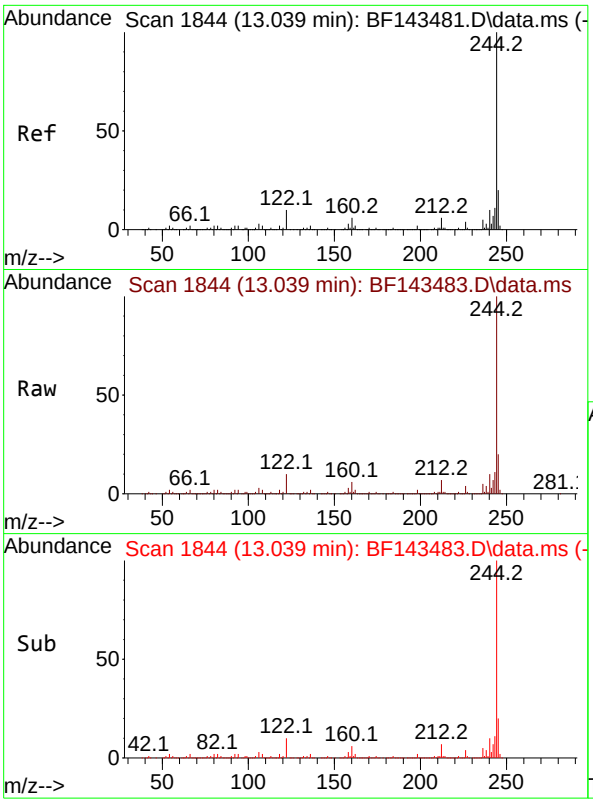


#78
Pyrene
Concen: 55.127 ng
RT: 12.898 min Scan# 1820
Delta R.T. -0.006 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Tgt Ion:202 Resp: 1030970

Ion	Ratio	Lower	Upper
202	100		
200	21.6	17.0	25.4
203	17.8	14.3	21.5



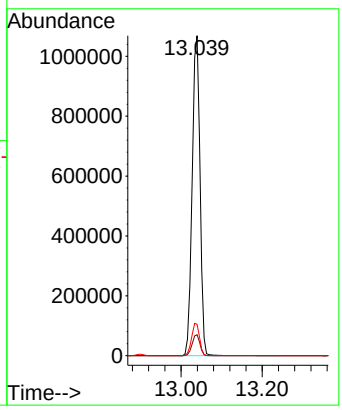


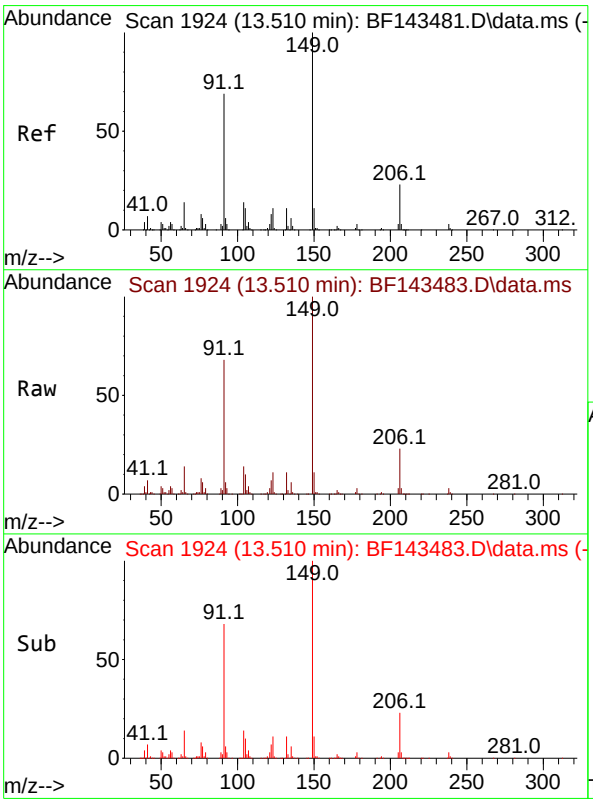
#79
Terphenyl-d14
Concen: 110.129 ng
RT: 13.039 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:244 Resp: 1434829

Ion	Ratio	Lower	Upper
244	100		
212	6.5	5.2	7.8
122	9.8	7.9	11.9

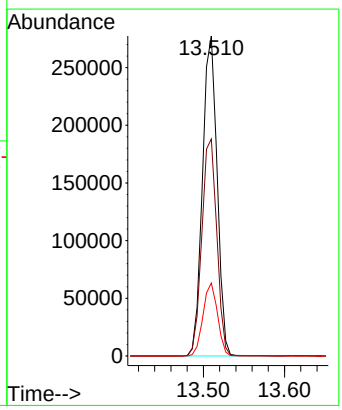


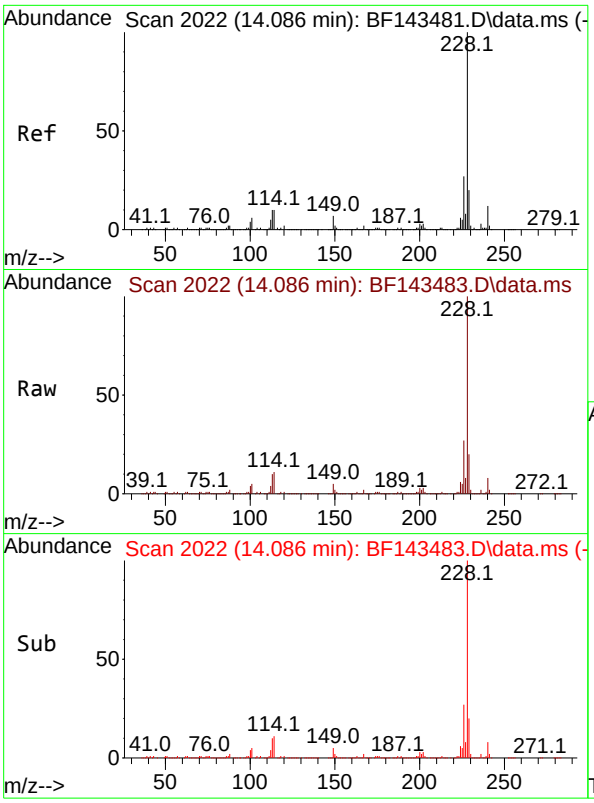


#80
Butylbenzylphthalate
Concen: 68.017 ng
RT: 13.510 min Scan# 1924
Delta R.T. 0.000 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Tgt Ion:149 Resp: 347496

Ion	Ratio	Lower	Upper
149	100		
91	67.8	55.3	82.9
206	22.8	18.2	27.4



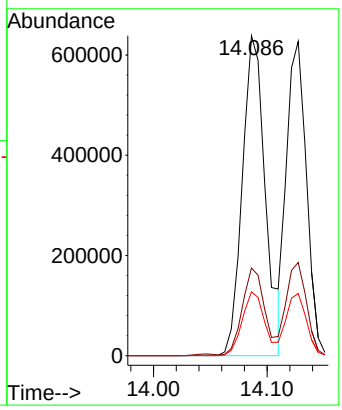


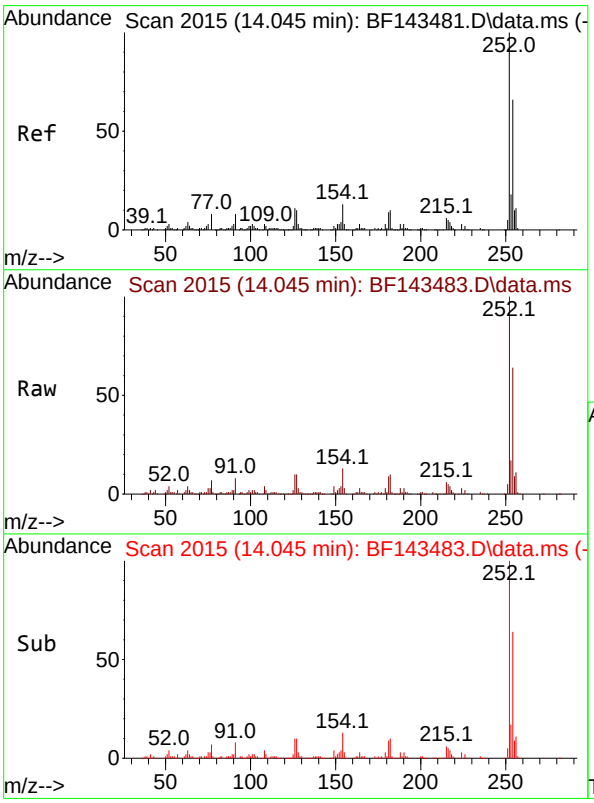
#81
Benzo(a)anthracene
Concen: 61.318 ng
RT: 14.086 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:228 Resp: 897535

Ion	Ratio	Lower	Upper
228	100		
226	27.4	21.7	32.5
229	20.0	15.7	23.5

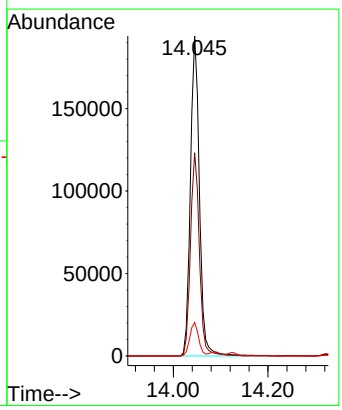


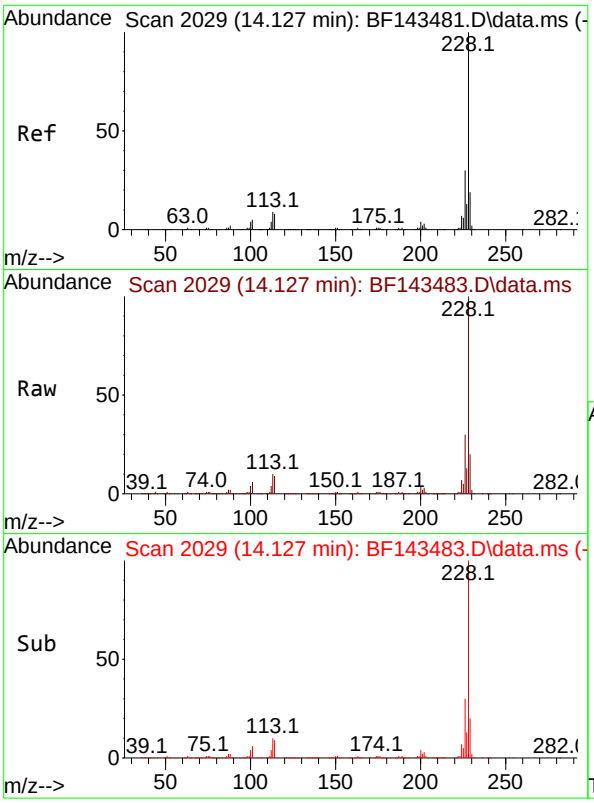


#82
3,3'-Dichlorobenzidine
Concen: 61.324 ng
RT: 14.045 min Scan# 2015
Delta R.T. 0.000 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Tgt Ion:252 Resp: 257059

Ion	Ratio	Lower	Upper
252	100		
254	63.5	52.6	79.0
126	10.4	8.7	13.1



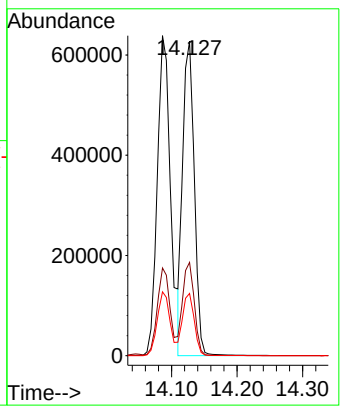


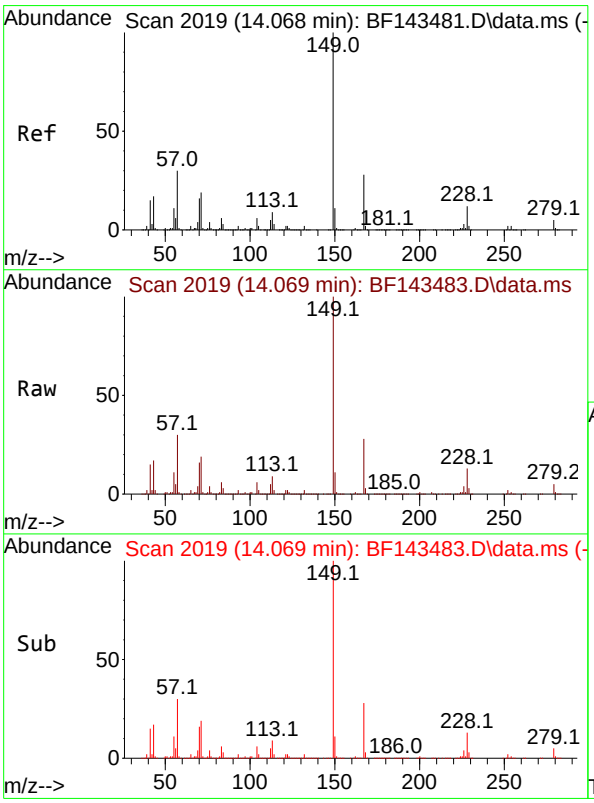
#83
Chrysene
Concen: 58.342 ng
RT: 14.127 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:228 Resp: 767443

Ion	Ratio	Lower	Upper
228	100		
226	29.7	23.7	35.5
229	19.8	15.7	23.5

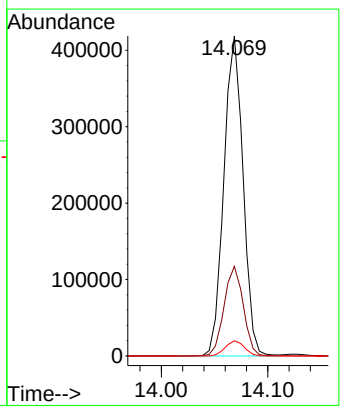


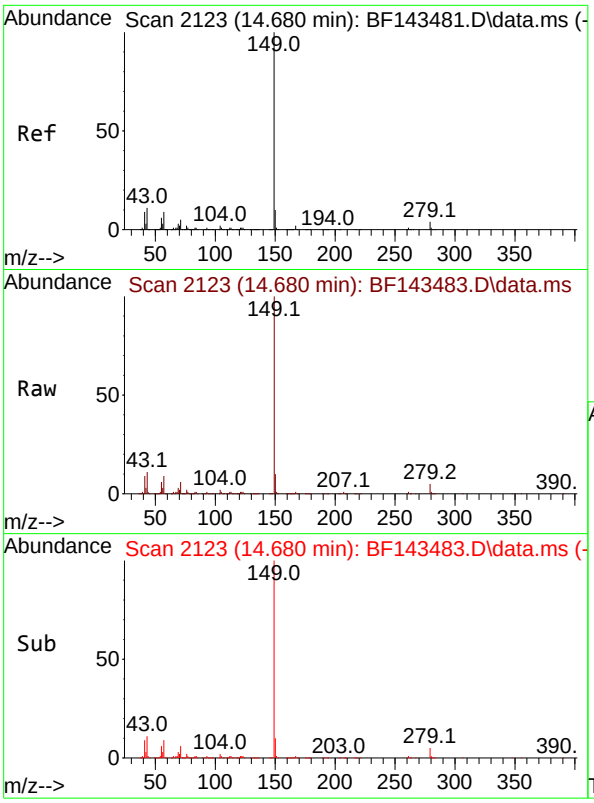


#84
Bis(2-ethylhexyl)phthalate
Concen: 67.227 ng
RT: 14.069 min Scan# 2019
Delta R.T. 0.000 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Tgt Ion:149 Resp: 523115

Ion	Ratio	Lower	Upper
149	100		
167	28.0	22.2	33.2
279	4.7	3.6	5.4



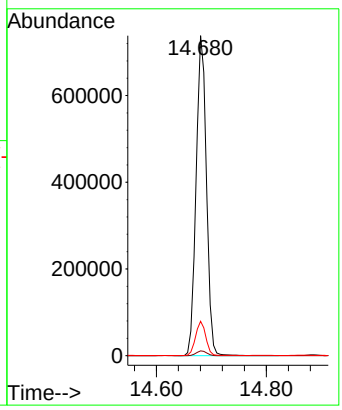


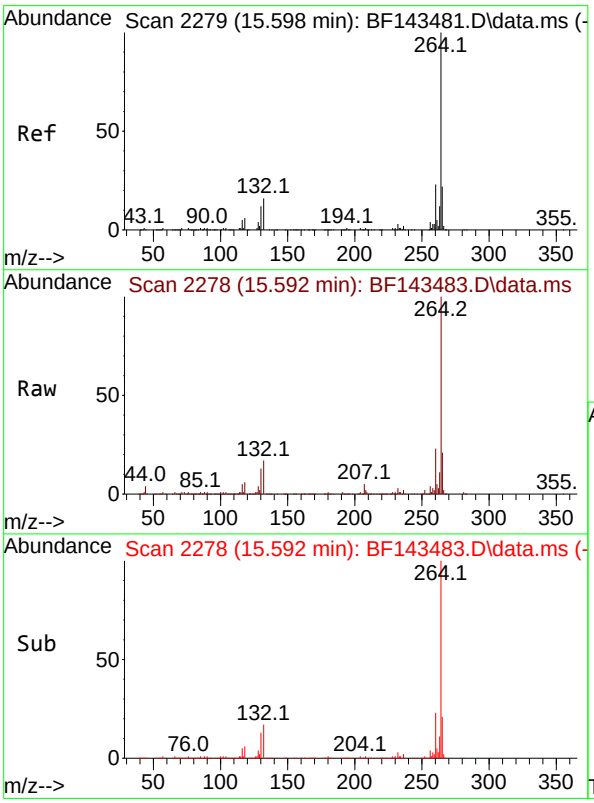
#85
Di-n-octyl phthalate
Concen: 66.864 ng
RT: 14.680 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:149 Resp: 963857

Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.2	1.8
43	10.5	8.5	12.7

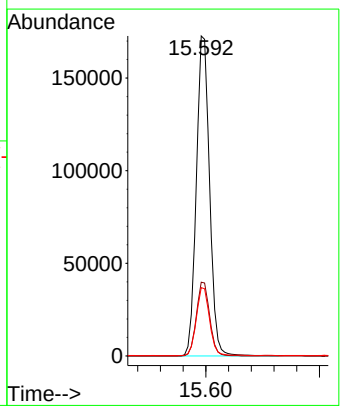


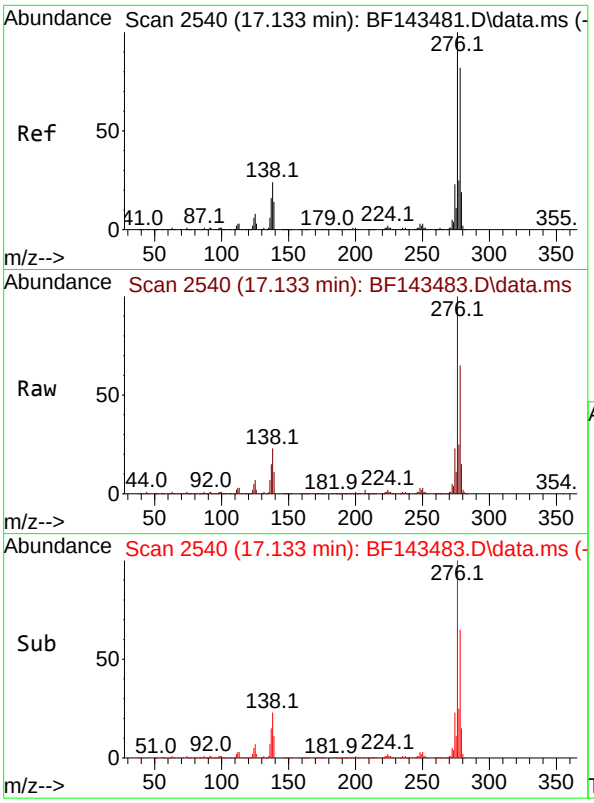


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.592 min Scan# 2278
Delta R.T. -0.006 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Tgt Ion:264 Resp: 280304

Ion	Ratio	Lower	Upper
264	100		
260	23.1	18.7	28.1
265	21.4	17.6	26.4



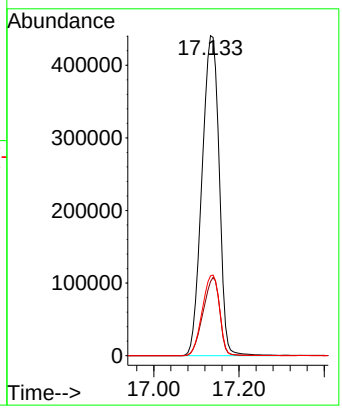


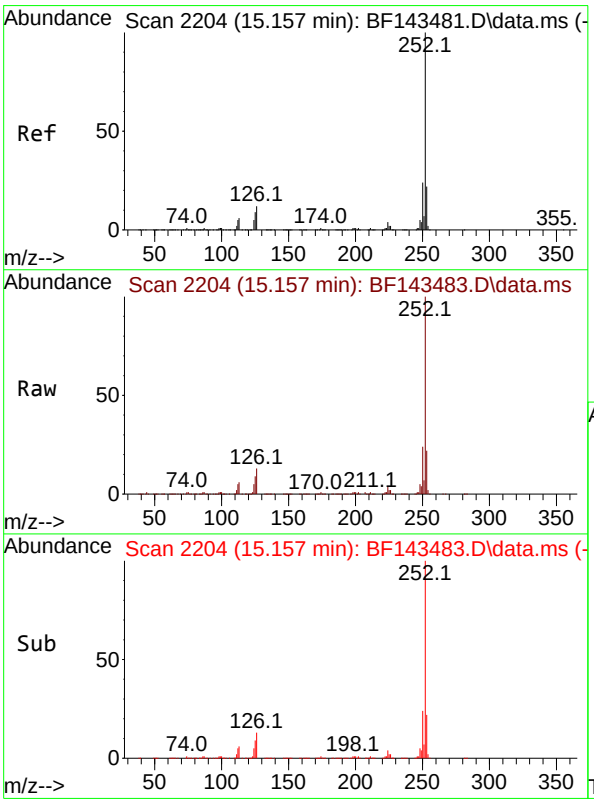
#87
Indeno(1,2,3-cd)pyrene
Concen: 61.208 ng
RT: 17.133 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:276 Resp: 1232879

Ion	Ratio	Lower	Upper
276	100		
138	23.7	19.2	28.8
277	25.4	20.3	30.5

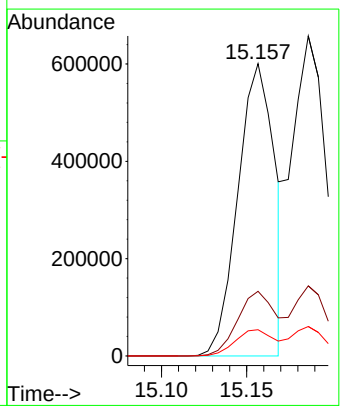


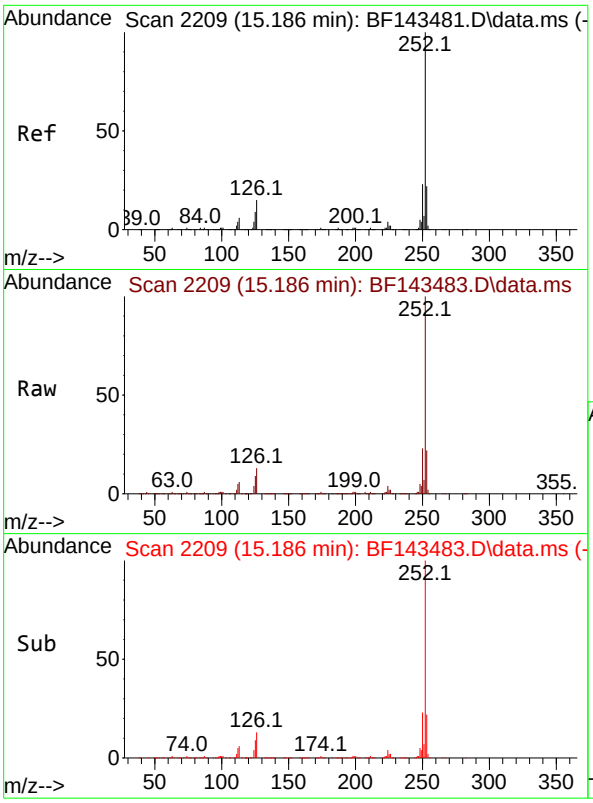


#88
Benzo(b)fluoranthene
Concen: 57.622 ng
RT: 15.157 min Scan# 2204
Delta R.T. 0.000 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Tgt Ion:252 Resp: 897808

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.5	26.3
125	9.0	7.4	11.0



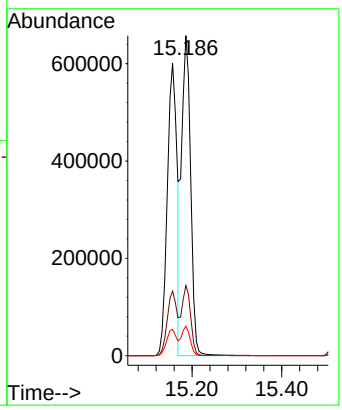


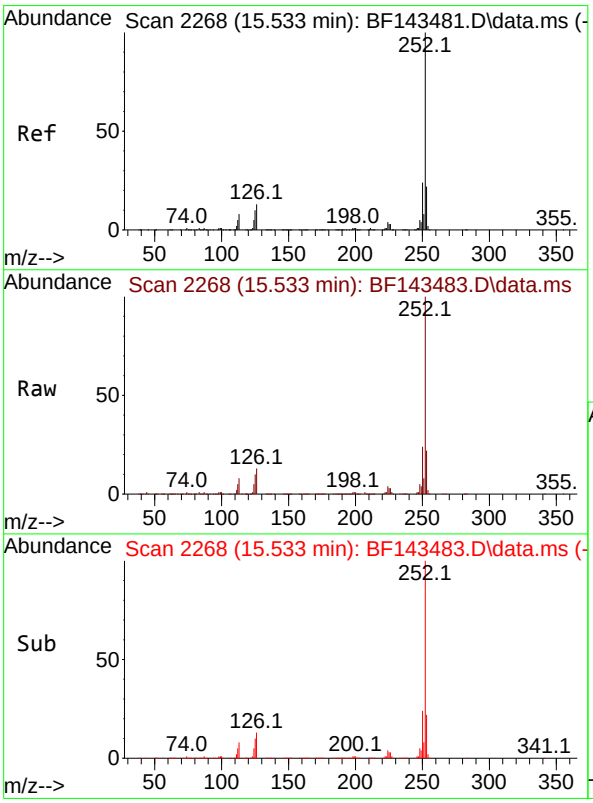
#89
Benzo(k)fluoranthene
Concen: 62.250 ng
RT: 15.186 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:252 Resp: 928660

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.4	26.2
125	9.2	7.4	11.0

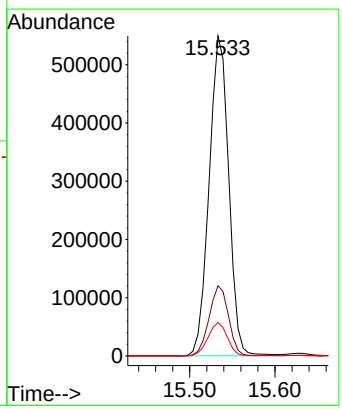


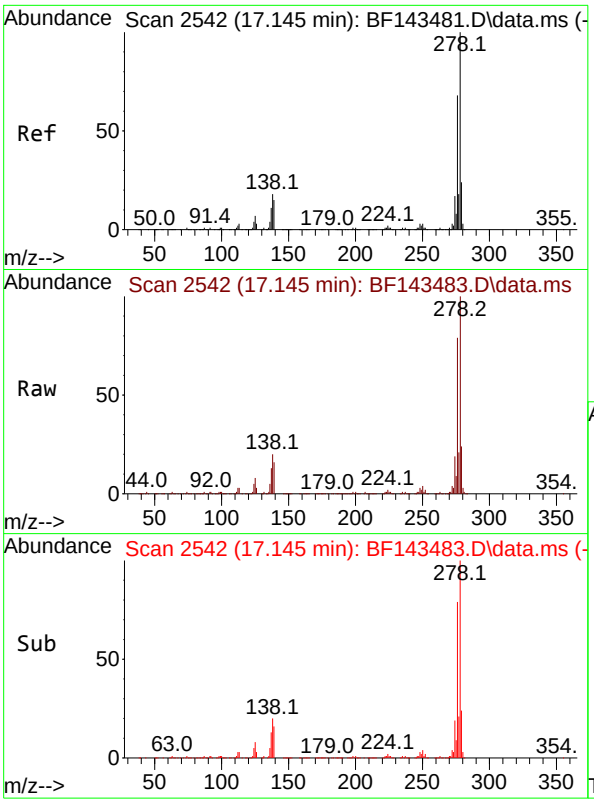


#90
Benzo(a)pyrene
Concen: 60.630 ng
RT: 15.533 min Scan# 2268
Delta R.T. -0.006 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Tgt Ion:252 Resp: 876864

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.4	26.0
125	10.4	8.2	12.2



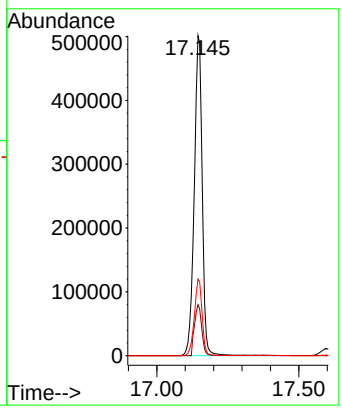


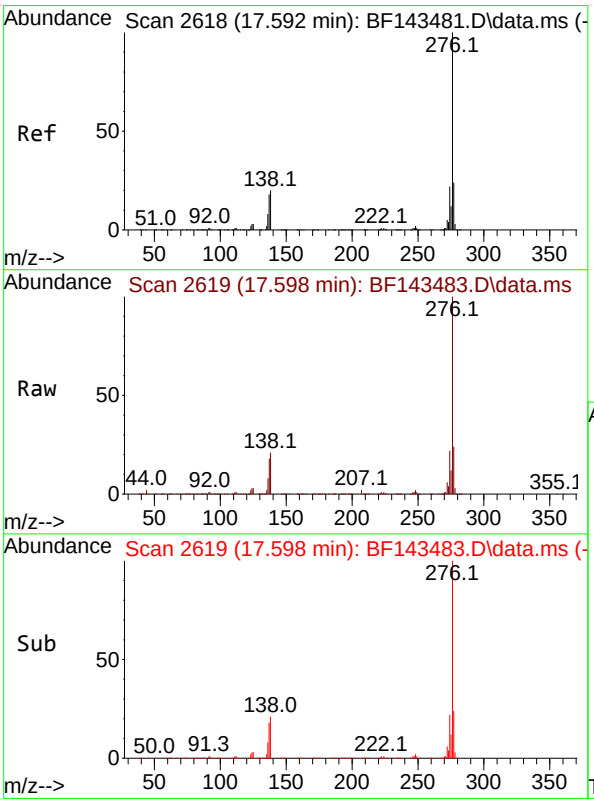
#91
Dibenzo(a,h)anthracene
Concen: 60.896 ng
RT: 17.145 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:278 Resp: 982366

Ion	Ratio	Lower	Upper
278	100		
139	16.0	12.1	18.1
279	23.9	19.2	28.8

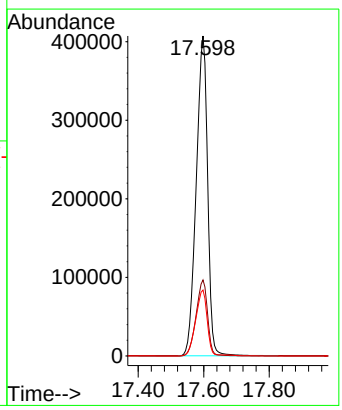




#92
Benzo(g,h,i)perylene
Concen: 61.444 ng
RT: 17.598 min Scan# 2619
Delta R.T. -0.006 min
Lab File: BF143483.D
Acq: 20 Aug 2025 13:51

Tgt Ion:276 Resp: 985608

Ion	Ratio	Lower	Upper
276	100		
277	23.8	18.9	28.3
138	20.6	16.3	24.5



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082025\
Data File : BF143484.D
Acq On : 20 Aug 2025 14:20
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Quant Time: Aug 20 16:23:56 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 20 15:07:46 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.928	152	125123	20.000	ng		0.00
21) Naphthalene-d8	8.210	136	471095	20.000	ng		0.00
39) Acenaphthene-d10	9.969	164	252899	20.000	ng		0.00
64) Phenanthrene-d10	11.457	188	380140	20.000	ng		0.00
76) Chrysene-d12	14.104	240	250059	20.000	ng		0.00
86) Perylene-d12	15.598	264	296923	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.563	112	1062268	148.245	ng		0.00
7) Phenol-d6	6.575	99	1300018	146.969	ng		0.00
23) Nitrobenzene-d5	7.498	82	1224256	151.649	ng		0.00
42) 2,4,6-Tribromophenol	10.763	330	358471	152.274	ng		0.00
45) 2-Fluorobiphenyl	9.286	172	2022059	132.140	ng		0.00
79) Terphenyl-d14	13.039	244	1808474	126.204	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.734	88	261319	78.723	ng		99
3) Pyridine	3.516	79	711417	80.466	ng		98
4) n-Nitrosodimethylamine	3.475	42	324491	81.643	ng		98
6) Aniline	6.593	93	857604	72.534	ng	#	69
8) 2-Chlorophenol	6.722	128	601470	75.996	ng		99
10) Phenol	6.587	94	725059	71.153	ng		89
11) bis(2-Chloroethyl)ether	6.663	93	578357	75.951	ng		99
12) 1,3-Dichlorobenzene	6.875	146	659299	74.140	ng		100
13) 1,4-Dichlorobenzene	6.945	146	652783	73.180	ng		99
14) 1,2-Dichlorobenzene	7.098	146	617296	73.091	ng		99
15) Benzyl Alcohol	7.075	79	521147	78.692	ng		100
16) 2,2'-oxybis(1-Chloropr...	7.198	45	852253	69.956	ng		82
17) 2-Methylphenol	7.187	107	480610	75.661	ng		98
18) Hexachloroethane	7.445	117	228092	75.207	ng		95
19) n-Nitroso-di-n-propyla...	7.351	70	391129	72.344	ng		99
20) 3+4-Methylphenols	7.340	107	538601	71.028	ng		97
22) Acetophenone	7.340	105	720554	70.797	ng	#	98
24) Nitrobenzene	7.516	77	634384	76.350	ng		99
25) Isophorone	7.757	82	1136551	76.802	ng		99
26) 2-Nitrophenol	7.828	139	326185	80.143	ng		99
27) 2,4-Dimethylphenol	7.869	122	473860	74.687	ng		99
28) bis(2-Chloroethoxy)met...	7.957	93	673547	74.061	ng		100
29) 2,4-Dichlorophenol	8.075	162	501321	73.984	ng		99
30) 1,2,4-Trichlorobenzene	8.151	180	515561	74.002	ng		99
31) Naphthalene	8.234	128	1619392	71.600	ng		99
32) Benzoic acid	8.010	122	302185	79.400	ng		99
33) 4-Chloroaniline	8.281	127	593863	73.979	ng		99
34) Hexachlorobutadiene	8.351	225	333754	73.429	ng		99
35) Caprolactam	8.675	113	136369	83.868	ng		99
36) 4-Chloro-3-methylphenol	8.769	107	507643	74.756	ng		99
37) 2-Methylnaphthalene	8.928	142	1059150	70.116	ng		100
38) 1-Methylnaphthalene	9.028	142	1018285	70.472	ng		100
40) 1,2,4,5-Tetrachloroben...	9.092	216	523305	72.341	ng		99
41) Hexachlorocyclopentadiene	9.081	237	224318	79.823	ng		100
43) 2,4,6-Trichlorophenol	9.204	196	342710	76.993	ng		100
44) 2,4,5-Trichlorophenol	9.251	196	369517	75.999	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082025\
Data File : BF143484.D
Acq On : 20 Aug 2025 14:20
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Quant Time: Aug 20 16:23:56 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 20 15:07:46 2025
Response via : Initial Calibration

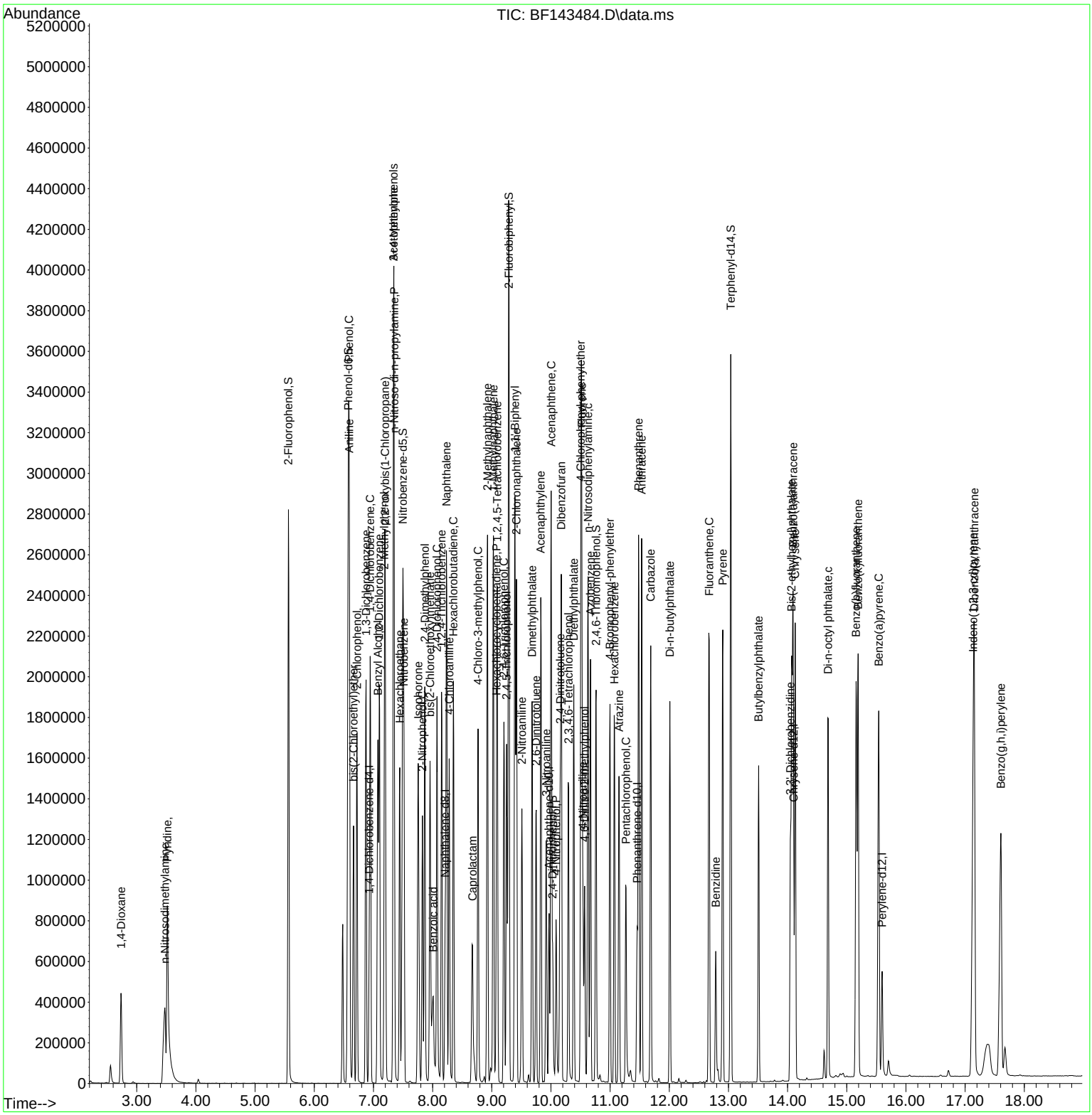
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) 1,1'-Biphenyl	9.392	154	1261514	70.278	ng	100
47) 2-Chloronaphthalene	9.416	162	1020070	72.427	ng	99
48) 2-Nitroaniline	9.510	65	323688	78.529	ng	97
49) Acenaphthylene	9.828	152	1453334	72.067	ng	99
50) Dimethylphthalate	9.681	163	1146434	75.267	ng	100
51) 2,6-Dinitrotoluene	9.751	165	254308	80.559	ng	99
52) Acenaphthene	10.004	154	996259	72.761	ng	100
53) 3-Nitroaniline	9.922	138	272588	79.912	ng	99
54) 2,4-Dinitrophenol	10.028	184	130385	77.416	ng	97
55) Dibenzofuran	10.175	168	1396682	71.547	ng	99
56) 4-Nitrophenol	10.086	139	183388	90.356	ng	97
57) 2,4-Dinitrotoluene	10.157	165	339818	80.619	ng	99
58) Fluorene	10.522	166	1036620	68.995	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.298	232	291172	80.607	ng	100
60) Diethylphthalate	10.386	149	1019464	74.653	ng	100
61) 4-Chlorophenyl-phenyle...	10.504	204	532970	70.930	ng	100
62) 4-Nitroaniline	10.539	138	253207	80.815	ng	97
63) Azobenzene	10.669	77	1029397	72.699	ng	99
65) 4,6-Dinitro-2-methylph...	10.569	198	190849	89.041	ng	99
66) n-Nitrosodiphenylamine	10.628	169	896806	73.307	ng	99
67) 4-Bromophenyl-phenylether	10.998	248	344616	75.979	ng	98
68) Hexachlorobenzene	11.075	284	369632	75.603	ng	98
69) Atrazine	11.151	200	267710	84.774	ng	98
70) Pentachlorophenol	11.269	266	198658	88.721	ng	100
71) Phenanthrene	11.480	178	1473414	72.378	ng	100
72) Anthracene	11.533	178	1489612	72.232	ng	99
73) Carbazole	11.686	167	1254509	74.240	ng	99
74) Di-n-butylphthalate	12.010	149	1299399	82.429	ng	99
75) Fluoranthene	12.674	202	1310616	71.750	ng	99
77) Benzidine	12.786	184	371810	61.042	ng	100
78) Pyrene	12.904	202	1327454	64.536	ng	100
80) Butylbenzylphthalate	13.510	149	484637	86.247	ng	99
81) Benzo(a)anthracene	14.092	228	1237164	76.847	ng	100
82) 3,3'-Dichlorobenzidine	14.045	252	370170	80.290	ng	99
83) Chrysene	14.127	228	1114466	77.031	ng	99
84) Bis(2-ethylhexyl)phtha...	14.069	149	700384	81.836	ng	99
85) Di-n-octyl phthalate	14.686	149	1227818	77.442	ng	100
87) Indeno(1,2,3-cd)pyrene	17.139	276	1538560	72.108	ng	100
88) Benzo(b)fluoranthene	15.157	252	1329385	80.545	ng	99
89) Benzo(k)fluoranthene	15.192	252	1193283	75.511	ng	99
90) Benzo(a)pyrene	15.539	252	1200553	78.365	ng	100
91) Dibenzo(a,h)anthracene	17.157	278	1214959	71.099	ng	100
92) Benzo(g,h,i)perylene	17.604	276	1233571	72.598	ng	99

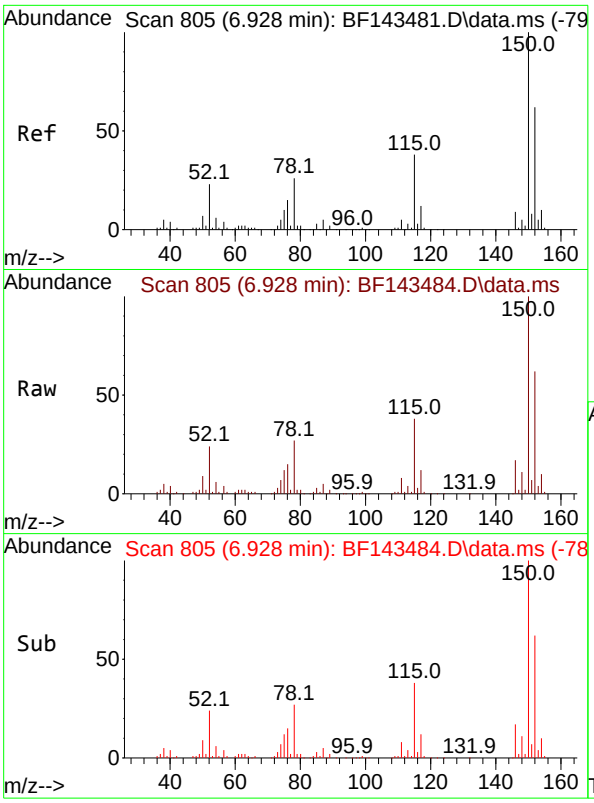
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082025\
Data File : BF143484.D
Acq On : 20 Aug 2025 14:20
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Quant Time: Aug 20 16:23:56 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 20 15:07:46 2025
Response via : Initial Calibration



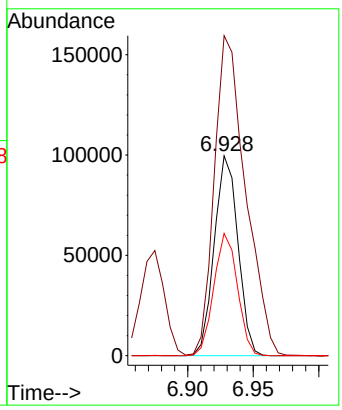


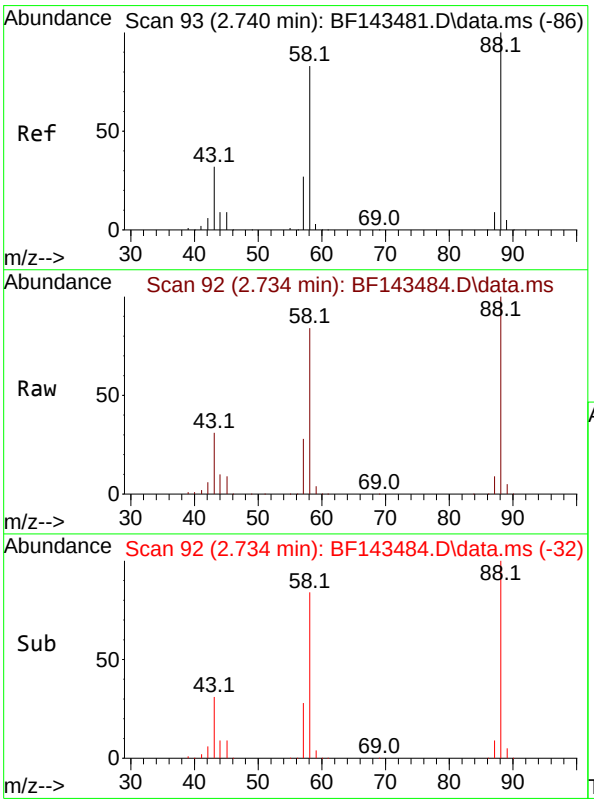
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.928 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:152 Resp: 125123

Ion	Ratio	Lower	Upper
152	100		
150	160.1	128.9	193.3
115	61.1	49.2	73.8

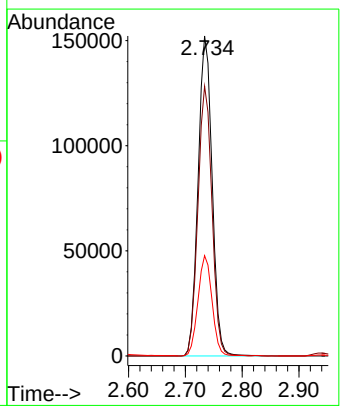


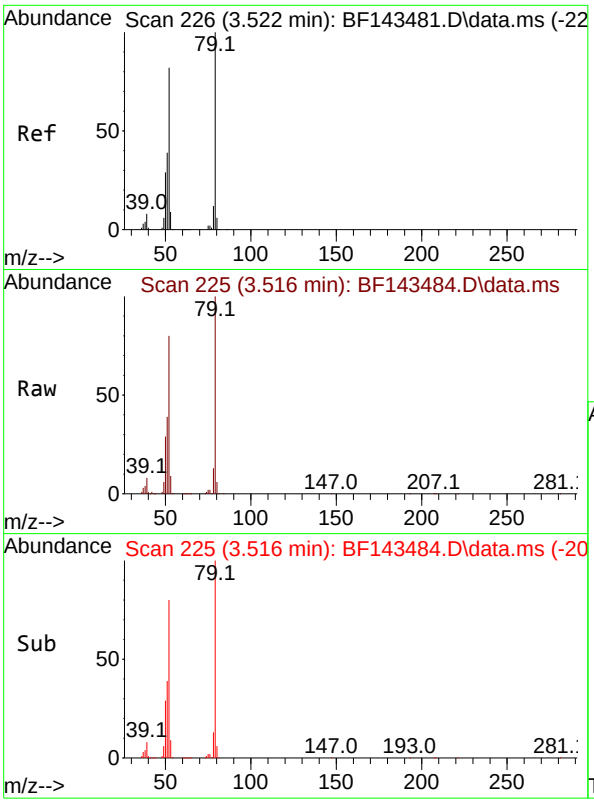


#2
1,4-Dioxane
Concen: 78.723 ng
RT: 2.734 min Scan# 92
Delta R.T. 0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Tgt Ion: 88 Resp: 261319

Ion	Ratio	Lower	Upper
88	100		
58	84.6	66.7	100.1
43	31.5	25.8	38.8



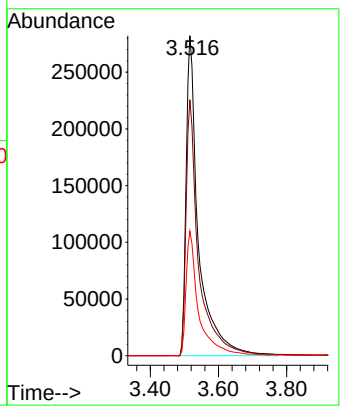


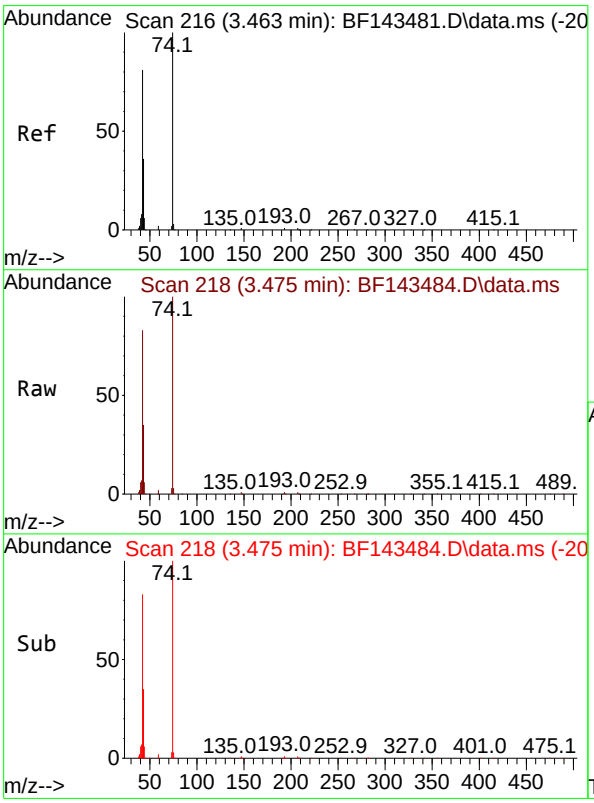
#3
Pyridine
Concen: 80.466 ng
RT: 3.516 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion: 79 Resp: 711417

Ion	Ratio	Lower	Upper
79	100		
52	80.0	65.6	98.4
51	38.9	31.2	46.8

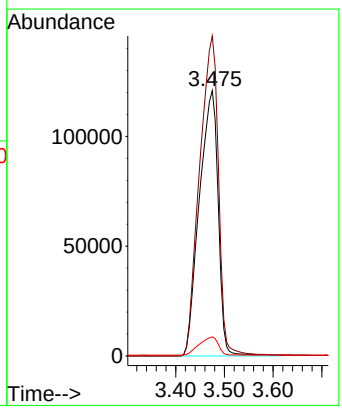


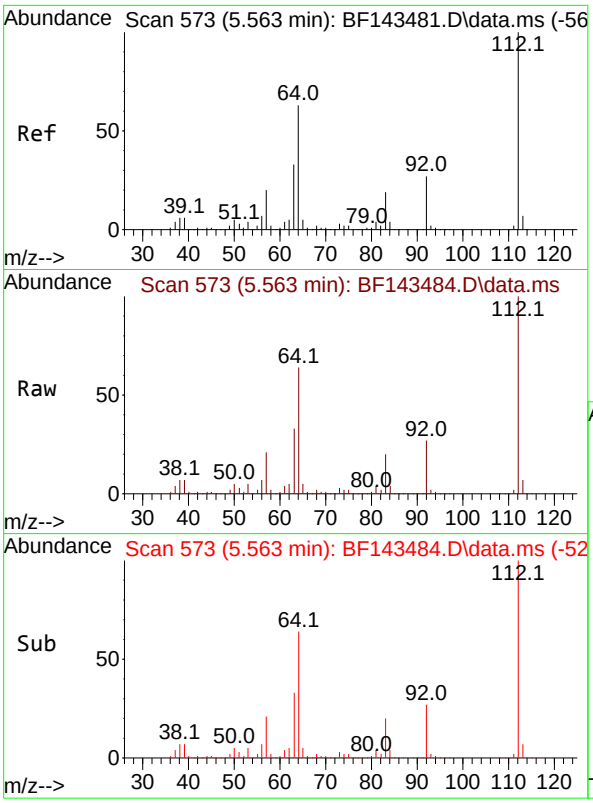


#4
n-Nitrosodimethylamine
Concen: 81.643 ng
RT: 3.475 min Scan# 218
Delta R.T. 0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Tgt Ion: 42 Resp: 324491

Ion	Ratio	Lower	Upper
42	100		
74	120.6	98.6	148.0
44	7.2	5.8	8.8



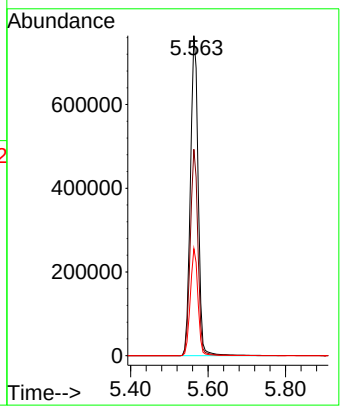


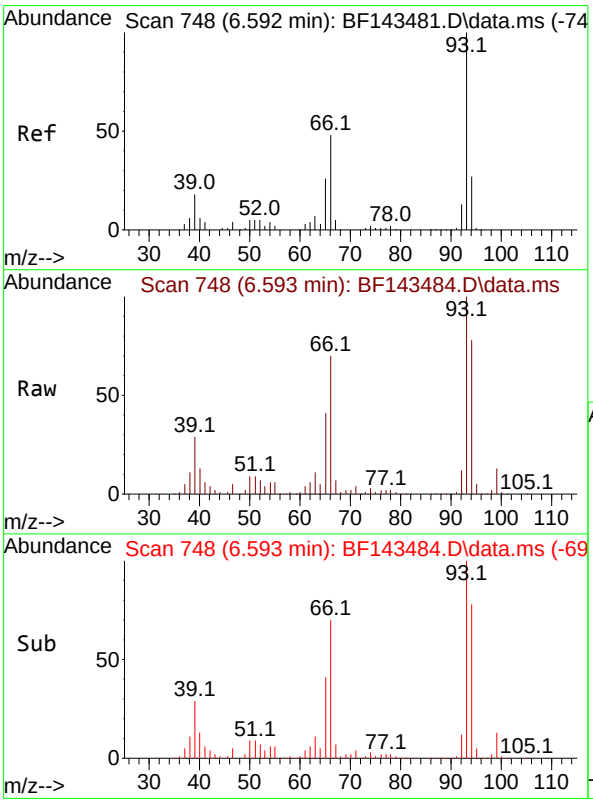
#5
2-Fluorophenol
Concen: 148.245 ng
RT: 5.563 min Scan# 5
Delta R.T. 0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:112 Resp: 1062268

Ion	Ratio	Lower	Upper
112	100		
64	64.5	50.4	75.6
63	33.5	26.4	39.6

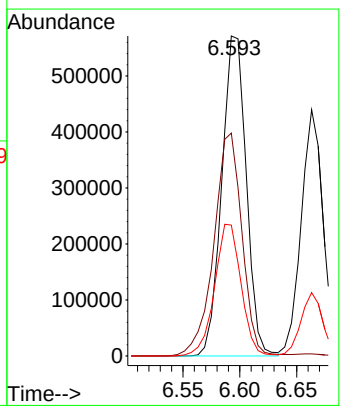


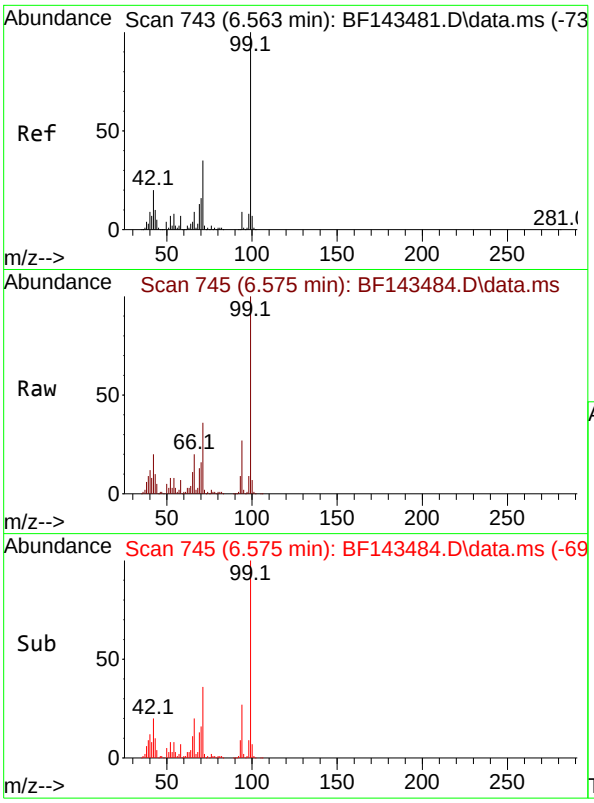


#6
Aniline
Concen: 72.534 ng
RT: 6.593 min Scan# 748
Delta R.T. 0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Tgt Ion: 93 Resp: 857604

Ion	Ratio	Lower	Upper
93	100		
66	69.7	38.9	58.3#
65	40.9	20.6	30.8#



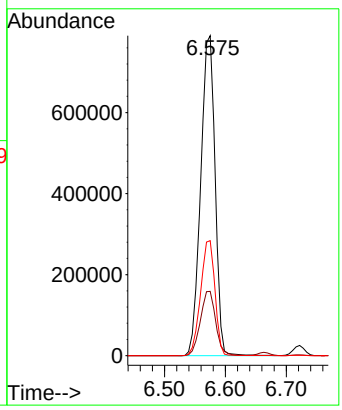


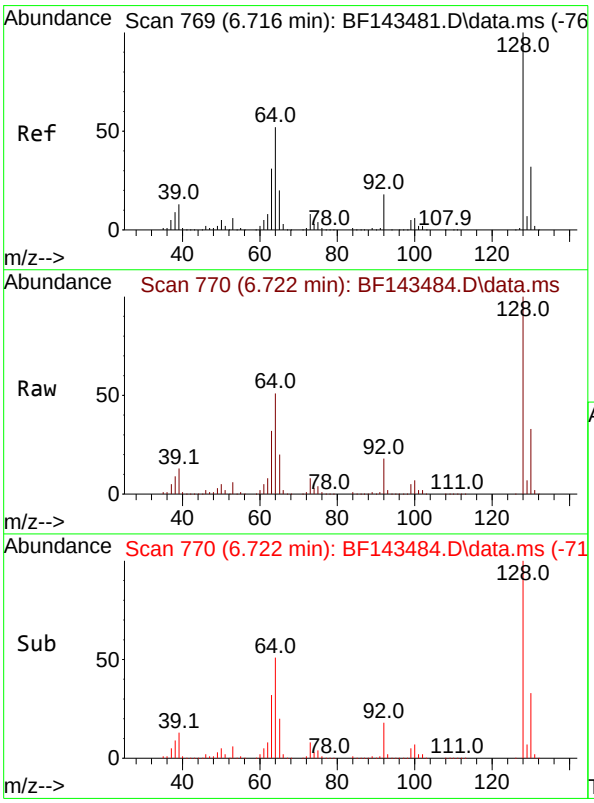
#7
Phenol-d6
Concen: 146.969 ng
RT: 6.575 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion: 99 Resp: 1300018

Ion	Ratio	Lower	Upper
99	100		
42	20.1	16.3	24.5
71	35.9	28.2	42.2

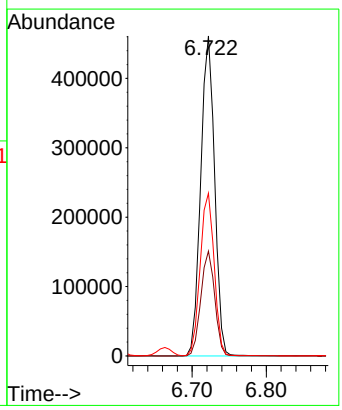


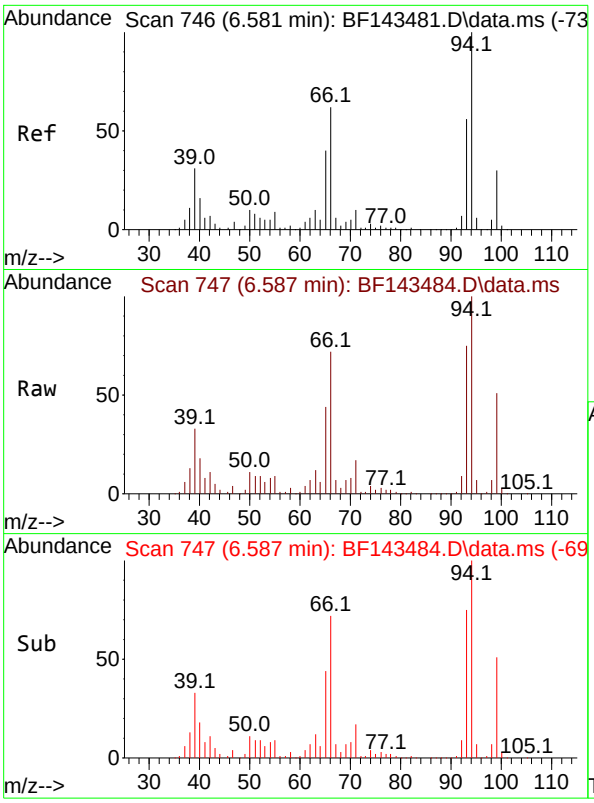


#8
2-Chlorophenol
Concen: 75.996 ng
RT: 6.722 min Scan# 770
Delta R.T. 0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Tgt Ion:128 Resp: 601470

Ion	Ratio	Lower	Upper
128	100		
130	32.8	12.4	52.4
64	50.8	31.6	71.6



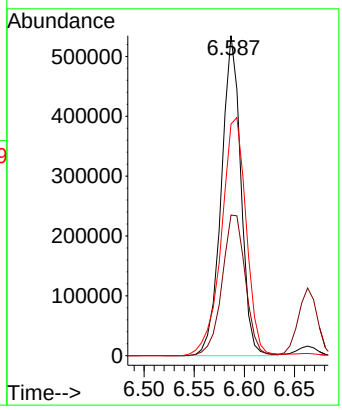


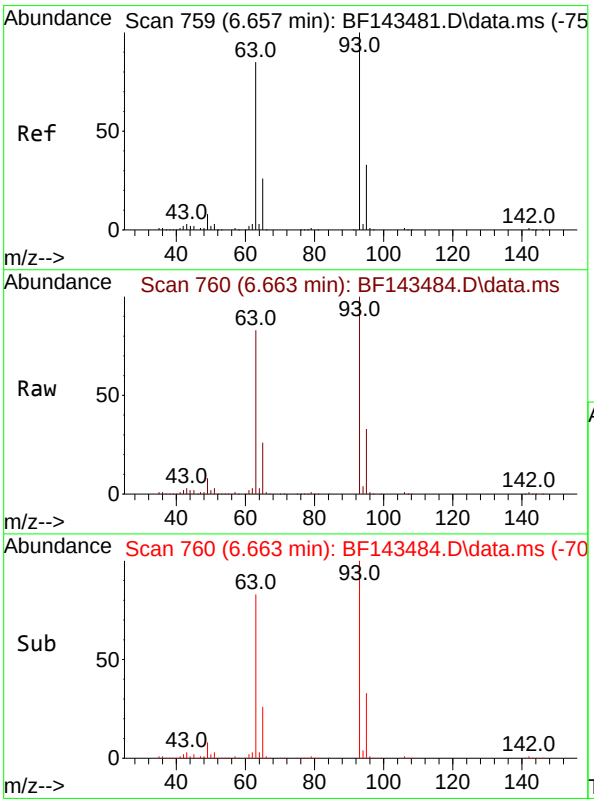
#10
Phenol
Concen: 71.153 ng
RT: 6.587 min Scan# 74
Delta R.T. 0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion: 94 Resp: 725059

Ion	Ratio	Lower	Upper
94	100		
65	44.0	19.5	59.5
66	72.4	42.5	82.5

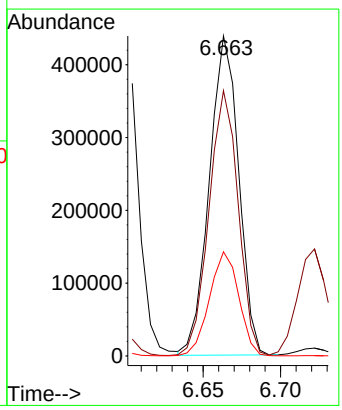


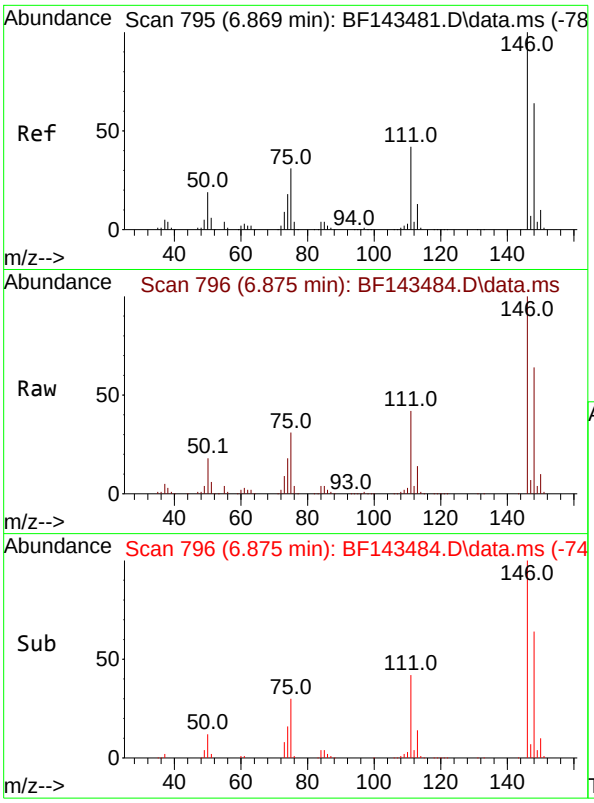


#11
bis(2-Chloroethyl)ether
Concen: 75.951 ng
RT: 6.663 min Scan# 760
Delta R.T. 0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Tgt Ion: 93 Resp: 578357

Ion	Ratio	Lower	Upper
93	100		
63	82.9	63.6	103.6
95	32.6	12.8	52.8



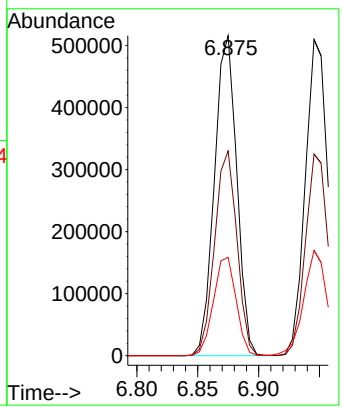


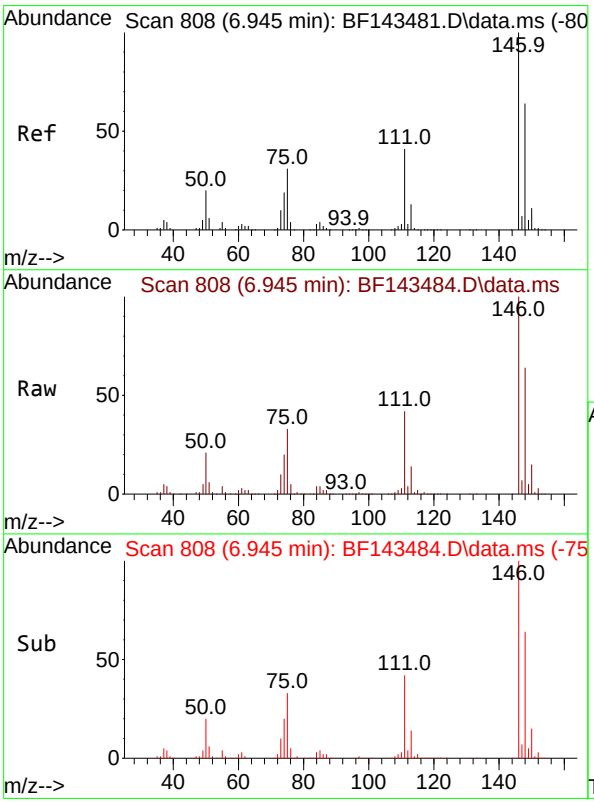
#12
1,3-Dichlorobenzene
Concen: 74.140 ng
RT: 6.875 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:146 Resp: 659299

Ion	Ratio	Lower	Upper
146	100		
148	64.0	51.3	76.9
75	30.7	24.7	37.1

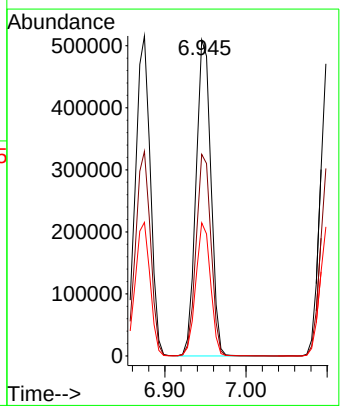


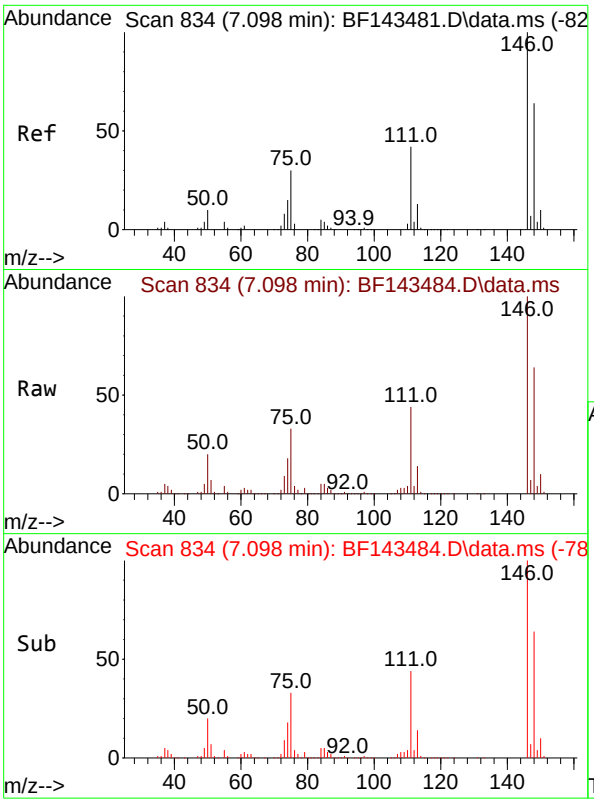


#13
1,4-Dichlorobenzene
Concen: 73.180 ng
RT: 6.945 min Scan# 808
Delta R.T. 0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Tgt Ion:146 Resp: 652783

Ion	Ratio	Lower	Upper
146	100		
148	63.8	51.5	77.3
111	42.1	32.6	49.0



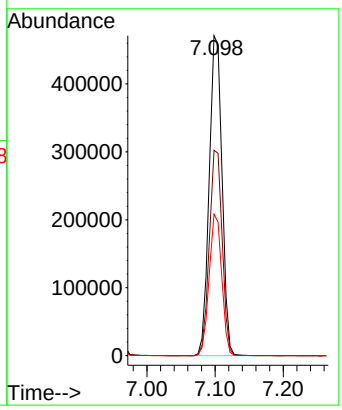


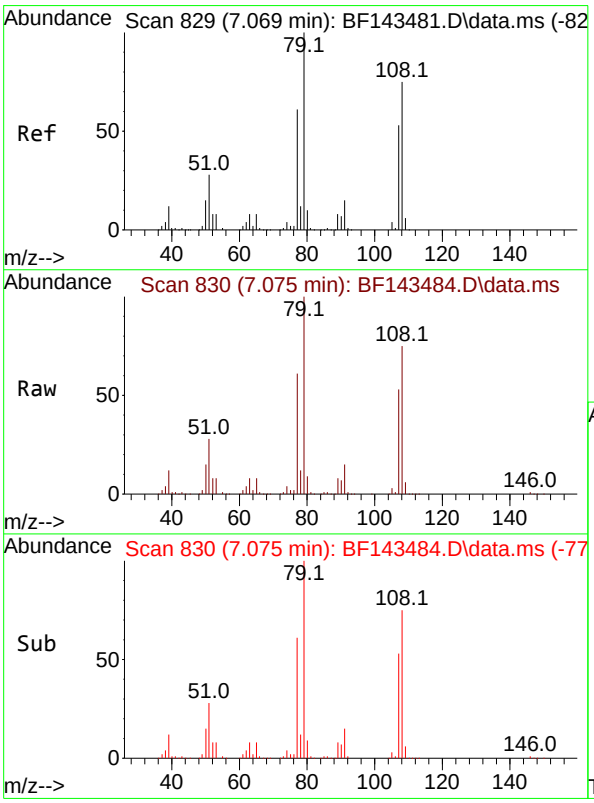
#14
1,2-Dichlorobenzene
Concen: 73.091 ng
RT: 7.098 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:146 Resp: 617296

Ion	Ratio	Lower	Upper
146	100		
148	64.2	51.0	76.6
111	44.2	34.0	51.0

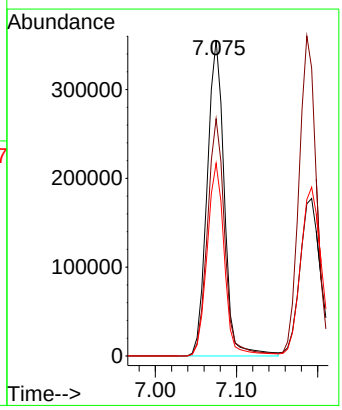


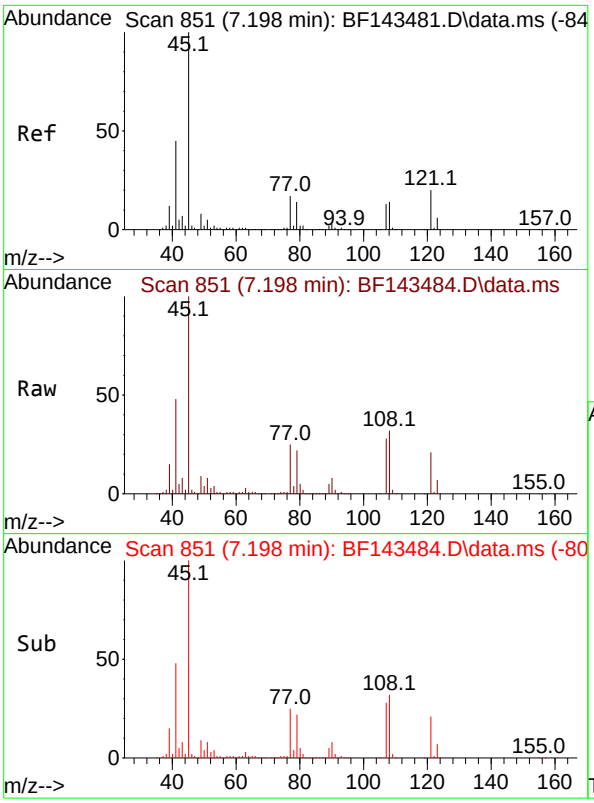


#15
Benzyl Alcohol
Concen: 78.692 ng
RT: 7.075 min Scan# 830
Delta R.T. 0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Tgt Ion: 79 Resp: 521147

Ion	Ratio	Lower	Upper
79	100		
108	75.1	59.8	89.6
77	61.0	49.0	73.4



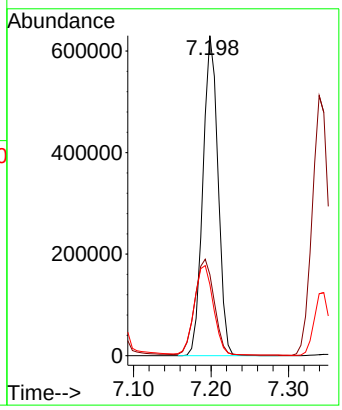


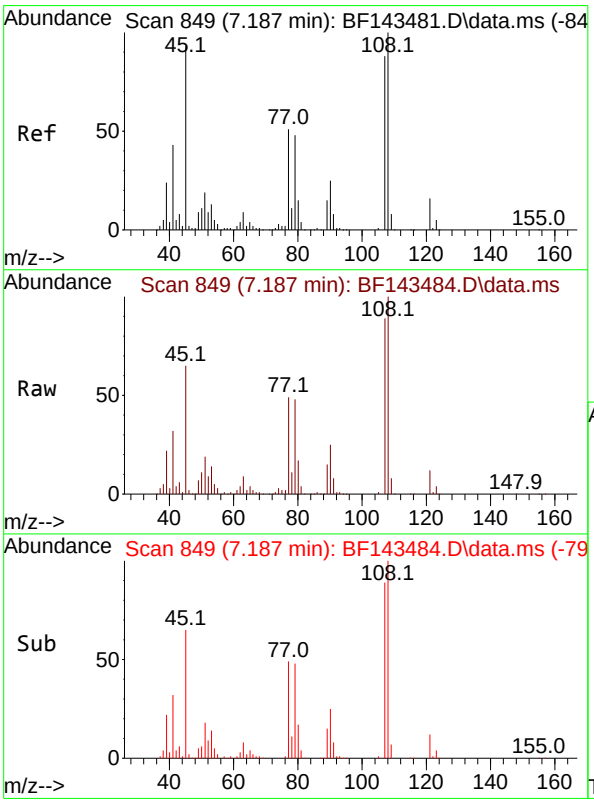
#16
2,2'-oxybis(1-Chloropropane)
Concen: 69.956 ng
RT: 7.198 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion: 45 Resp: 852253

Ion	Ratio	Lower	Upper
45	100		
77	25.4	0.0	37.9
79	22.3	0.0	34.7

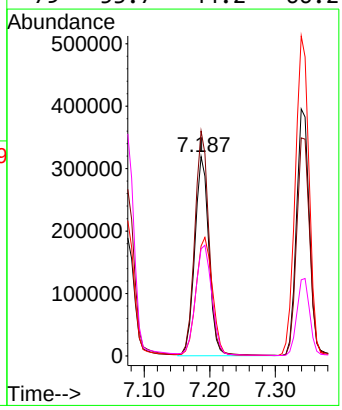


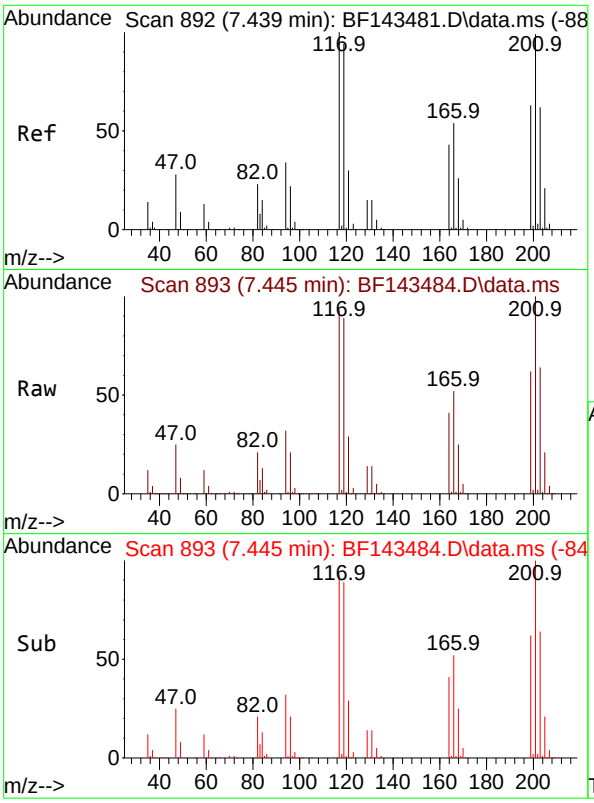


#17
2-Methylphenol
Concen: 75.661 ng
RT: 7.187 min Scan# 849
Delta R.T. 0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Tgt Ion:107 Resp: 480610

Ion	Ratio	Lower	Upper
107	100		
108	112.8	91.1	136.7
77	55.1	46.2	69.4
79	53.7	44.2	66.2



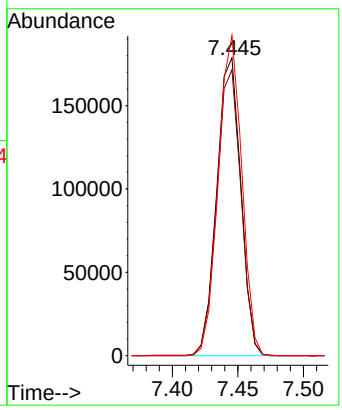


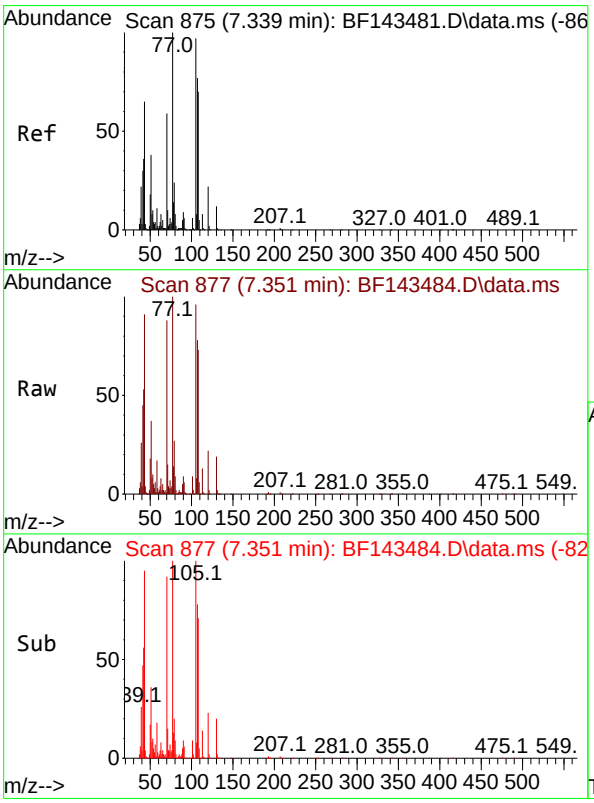
#18
Hexachloroethane
Concen: 75.207 ng
RT: 7.445 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:117 Resp: 228092

Ion	Ratio	Lower	Upper
117	100		
119	96.0	75.4	113.0
201	107.4	79.0	118.4

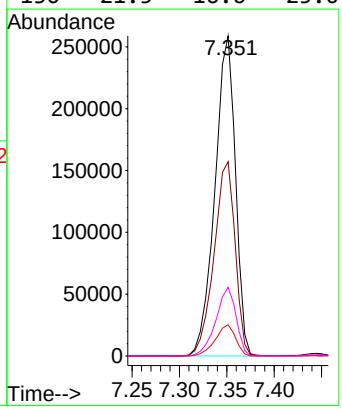


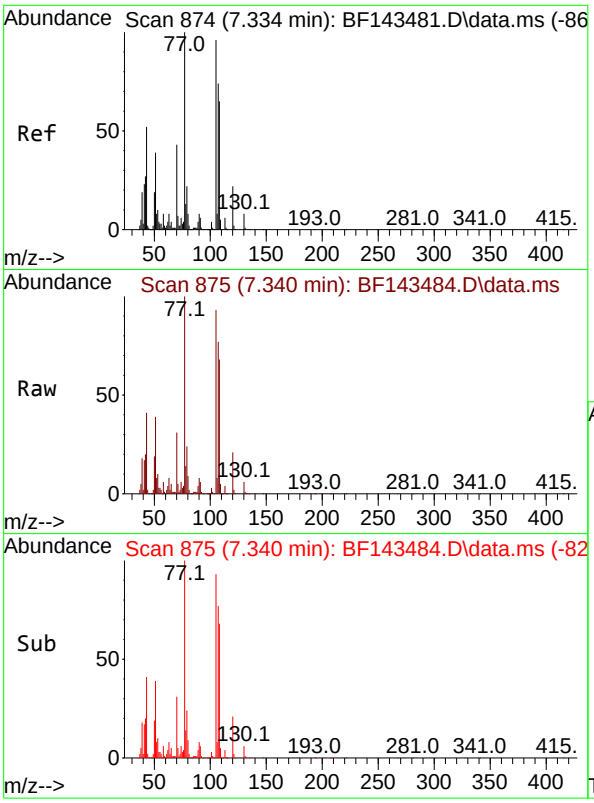


#19
n-Nitroso-di-n-propylamine
Concen: 72.344 ng
RT: 7.351 min Scan# 877
Delta R.T. 0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Tgt Ion: 70 Resp: 391129

Ion	Ratio	Lower	Upper
70	100		
42	60.7	49.3	73.9
101	9.7	7.8	11.8
130	21.5	16.6	25.0



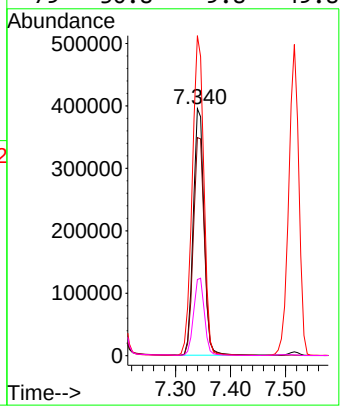


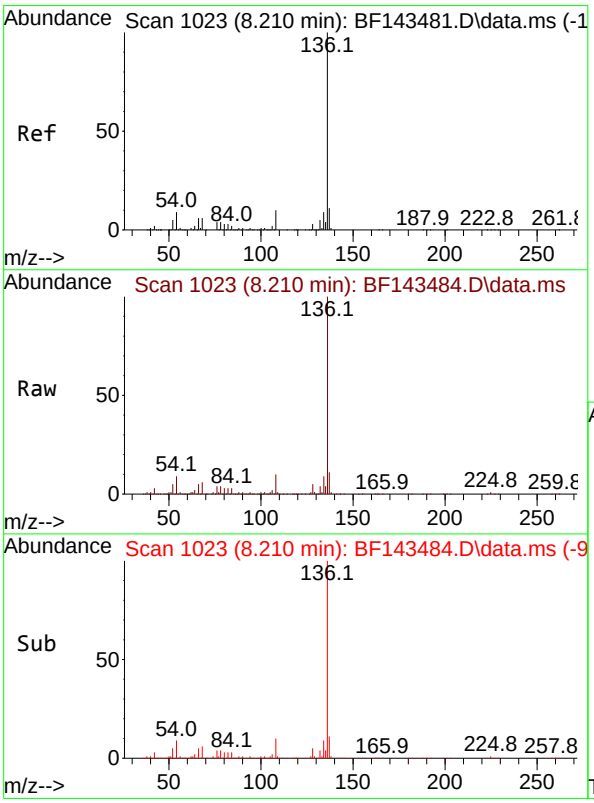
#20
3+4-Methylphenols
Concen: 71.028 ng
RT: 7.340 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:107 Resp: 538601

Ion	Ratio	Lower	Upper
107	100		
108	88.3	68.4	108.4
77	129.6	116.1	156.1
79	30.8	9.8	49.8

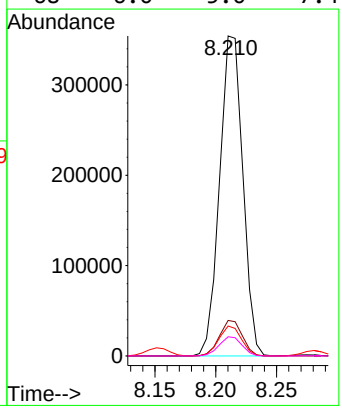


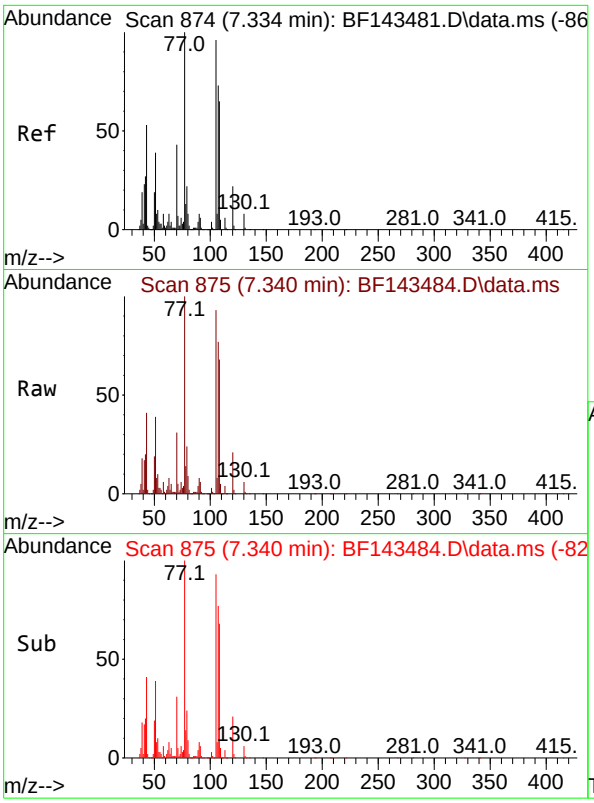


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.210 min Scan# 1023
Delta R.T. 0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Tgt Ion:136 Resp: 471095

Ion	Ratio	Lower	Upper
136	100		
137	11.1	9.0	13.4
54	9.4	7.4	11.2
68	6.0	5.0	7.4



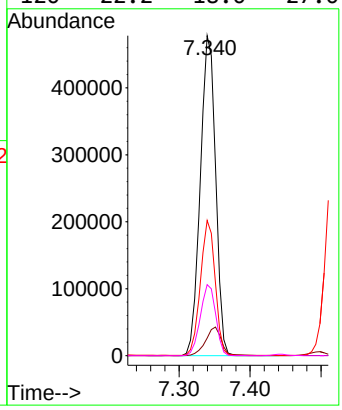


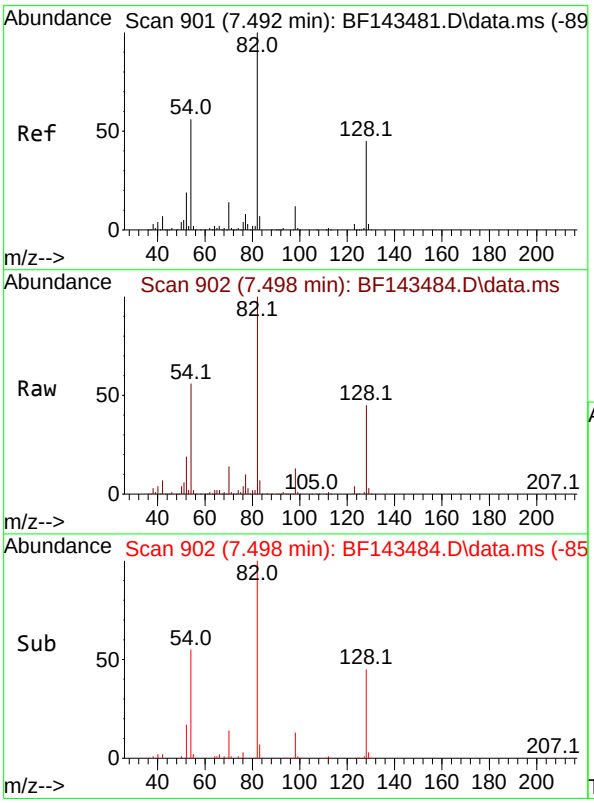
#22
Acetophenone
Concen: 70.797 ng
RT: 7.340 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:105 Resp: 720554

Ion	Ratio	Lower	Upper
105	100		
71	5.5	5.9	8.9#
51	42.2	32.5	48.7
120	22.2	18.0	27.0

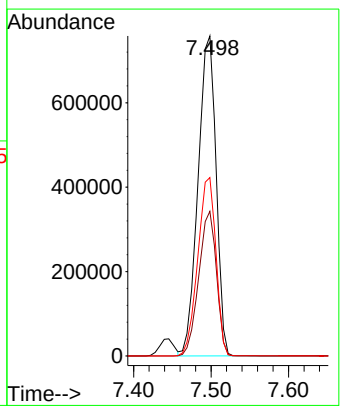


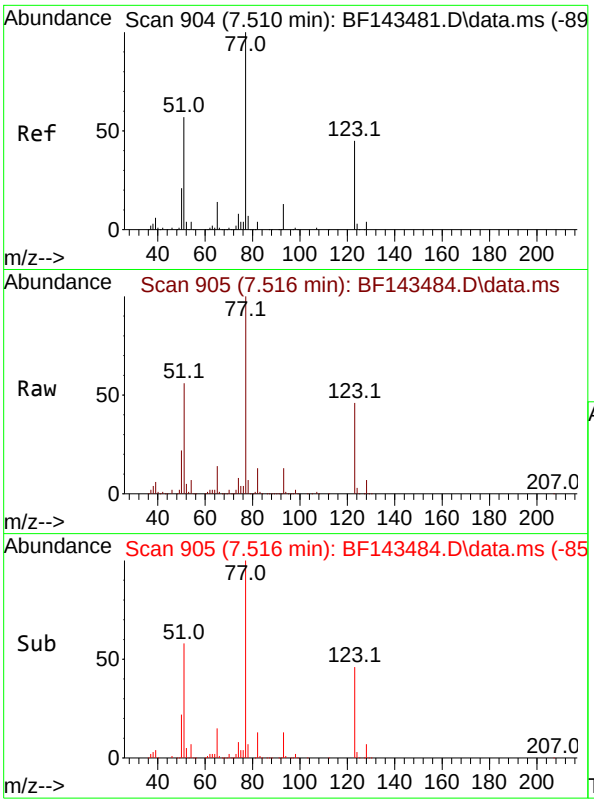


#23
Nitrobenzene-d5
Concen: 151.649 ng
RT: 7.498 min Scan# 902
Delta R.T. 0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Tgt Ion: 82 Resp: 1224256

Ion	Ratio	Lower	Upper
82	100		
128	45.2	35.5	53.3
54	55.7	44.3	66.5



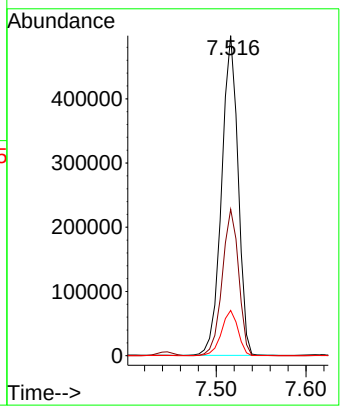


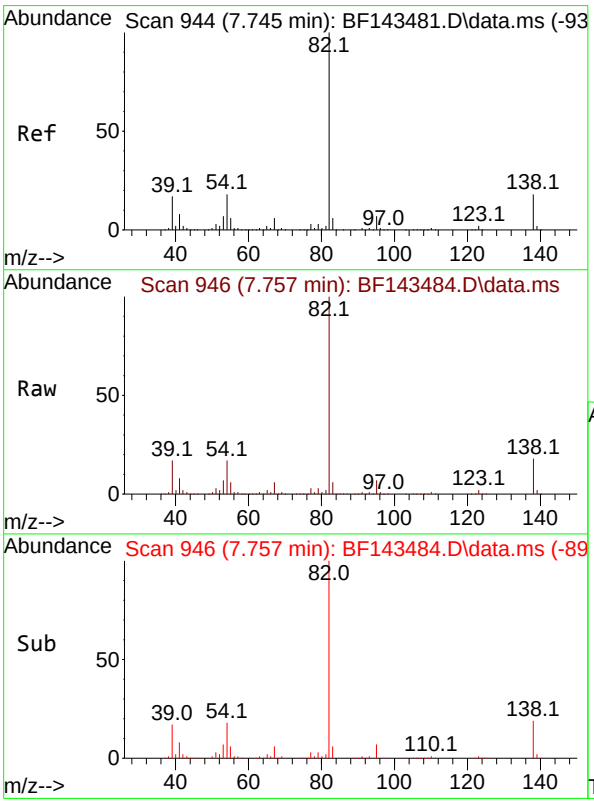
#24
Nitrobenzene
Concen: 76.350 ng
RT: 7.516 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion: 77 Resp: 634384

Ion	Ratio	Lower	Upper
77	100		
123	45.8	36.1	54.1
65	14.2	11.0	16.6

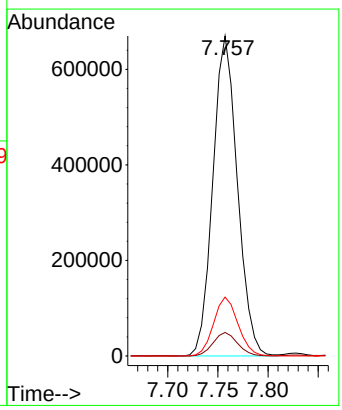


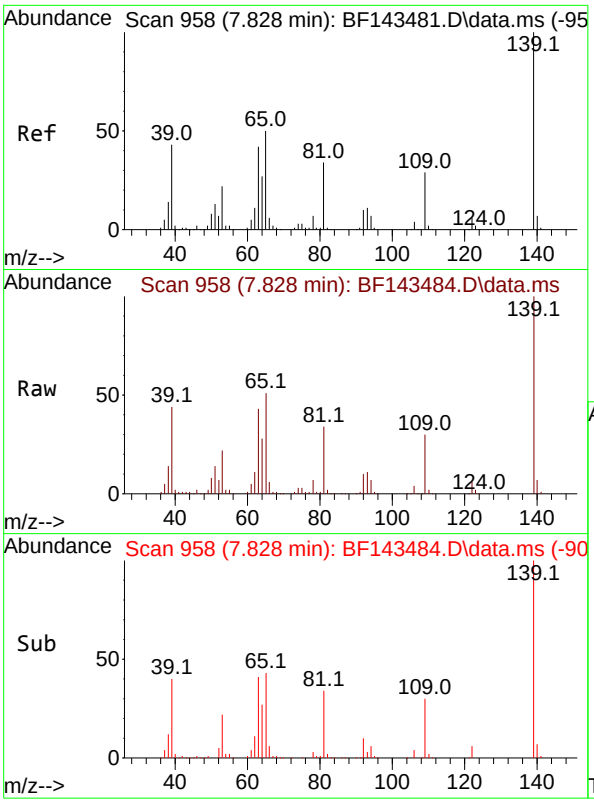


#25
Isophorone
Concen: 76.802 ng
RT: 7.757 min Scan# 946
Delta R.T. 0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Tgt Ion: 82 Resp: 1136551

Ion	Ratio	Lower	Upper
82	100		
95	7.3	5.8	8.8
138	18.4	14.2	21.4



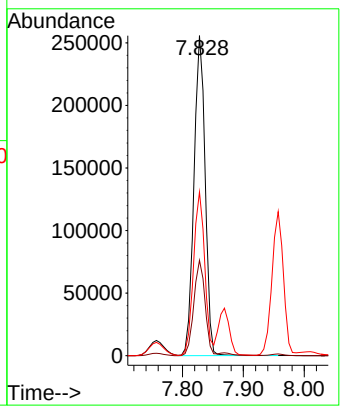


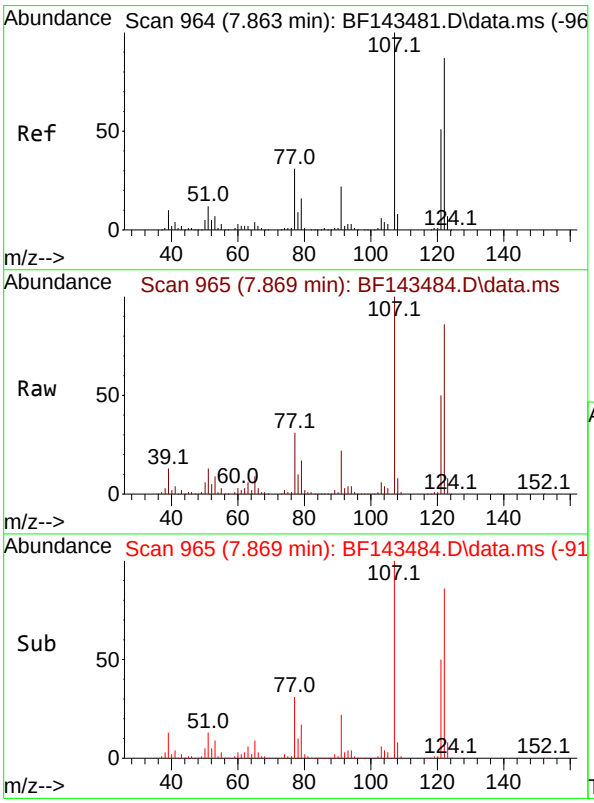
#26
2-Nitrophenol
Concen: 80.143 ng
RT: 7.828 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:139 Resp: 326185

Ion	Ratio	Lower	Upper
139	100		
109	29.8	23.0	34.6
65	51.1	40.3	60.5

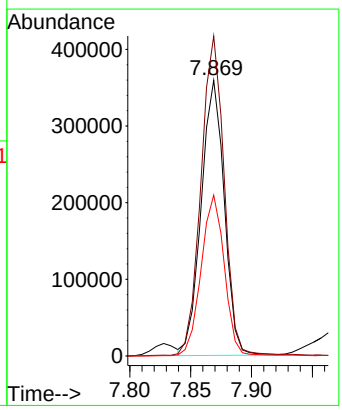


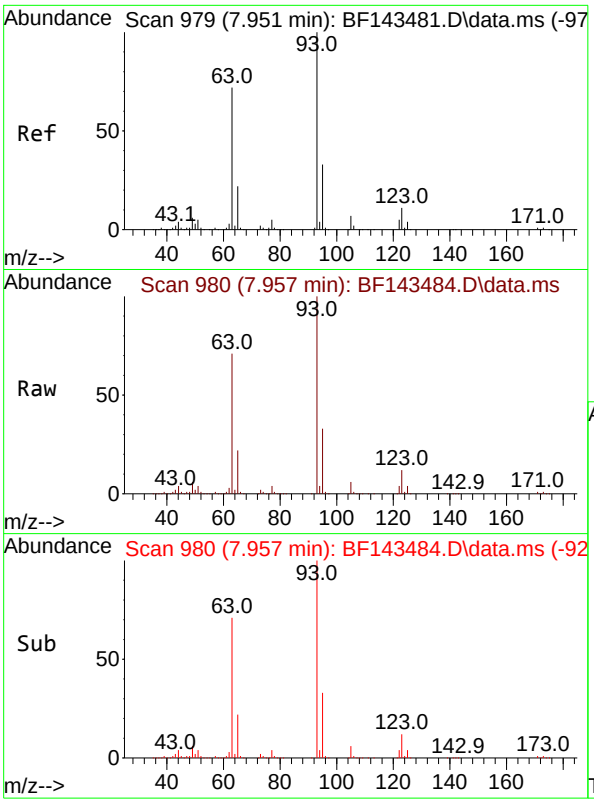


#27
2,4-Dimethylphenol
Concen: 74.687 ng
RT: 7.869 min Scan# 965
Delta R.T. 0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Tgt Ion:122 Resp: 473860

Ion	Ratio	Lower	Upper
122	100		
107	116.1	91.5	137.3
121	58.3	47.0	70.4



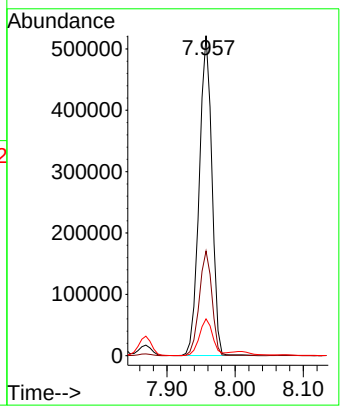


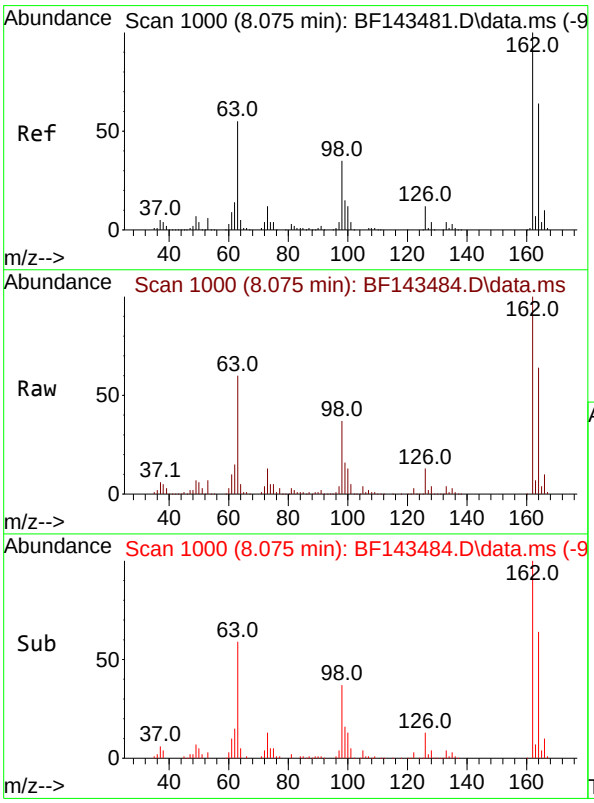
#28
bis(2-Chloroethoxy)methane
Concen: 74.061 ng
RT: 7.957 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion: 93 Resp: 673547

Ion	Ratio	Lower	Upper
93	100		
95	32.7	26.0	39.0
123	11.5	9.1	13.7

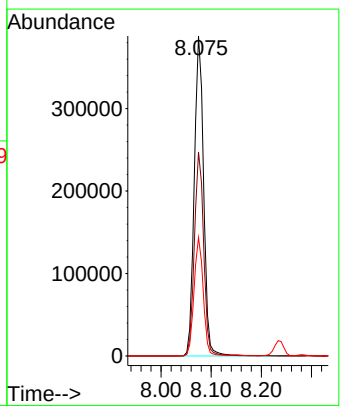


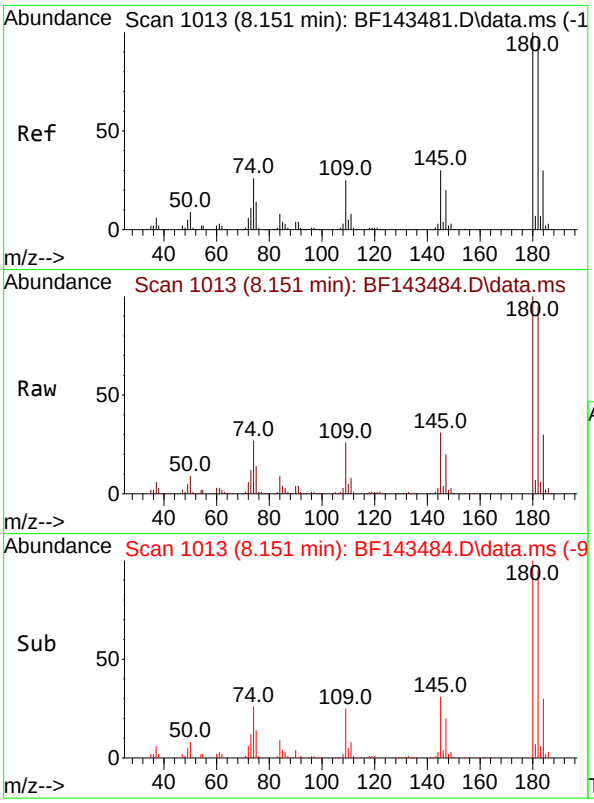


#29
2,4-Dichlorophenol
Concen: 73.984 ng
RT: 8.075 min Scan# 1000
Delta R.T. 0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Tgt Ion:162 Resp: 501321

Ion	Ratio	Lower	Upper
162	100		
164	63.7	43.5	83.5
98	37.0	15.1	55.1



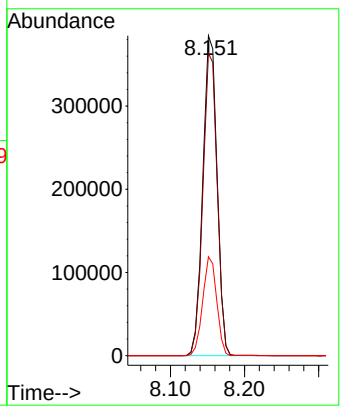


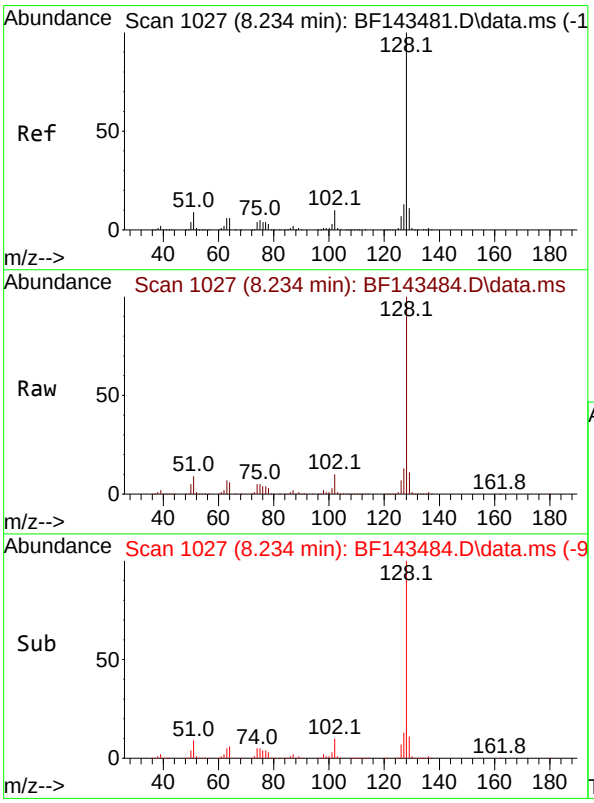
#30
1,2,4-Trichlorobenzene
Concen: 74.002 ng
RT: 8.151 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:180 Resp: 515561

Ion	Ratio	Lower	Upper
180	100		
182	94.5	76.6	114.8
145	30.9	24.3	36.5

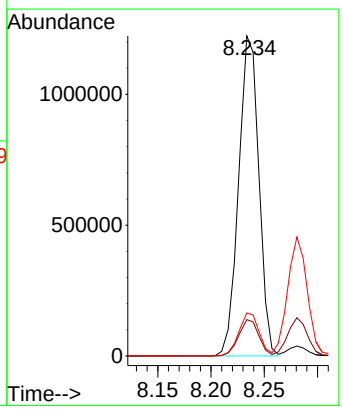


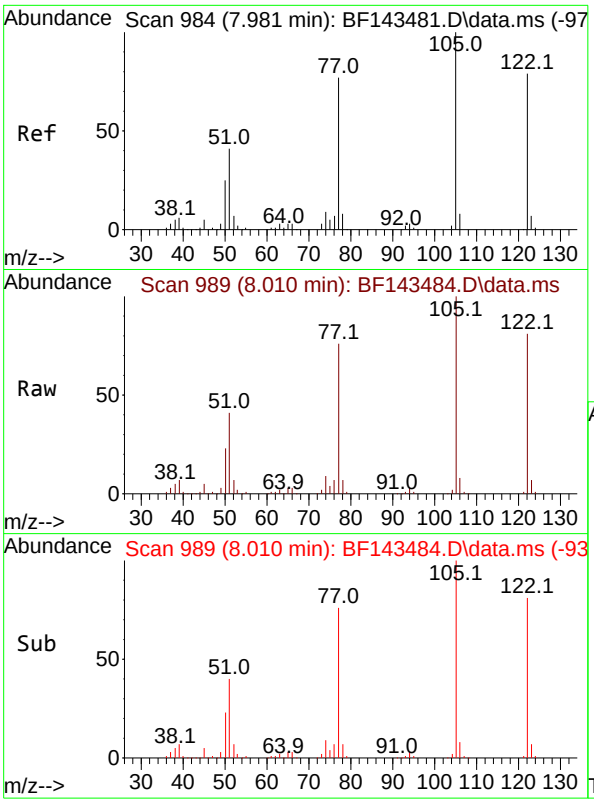


#31
Naphthalene
Concen: 71.600 ng
RT: 8.234 min Scan# 1027
Delta R.T. 0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Tgt Ion:128 Resp: 1619392

Ion	Ratio	Lower	Upper
128	100		
129	11.4	8.8	13.2
127	13.4	10.6	16.0



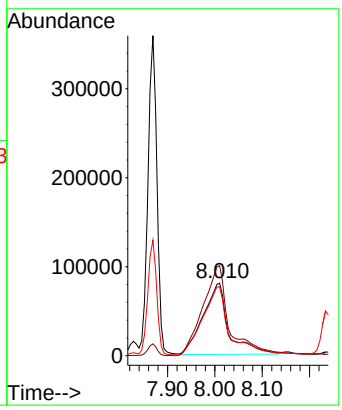


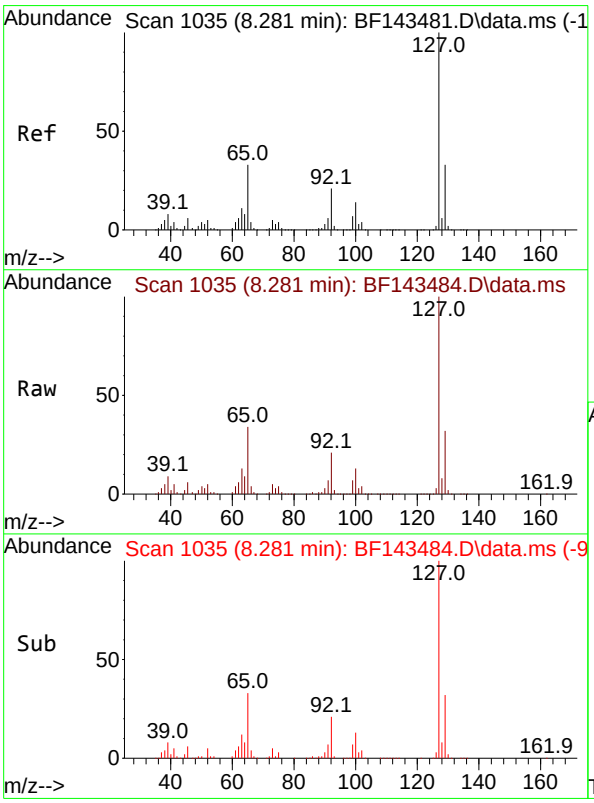
#32
Benzoic acid
Concen: 79.400 ng
RT: 8.010 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:122 Resp: 302185

Ion	Ratio	Lower	Upper
122	100		
105	124.1	104.7	144.7
77	94.8	77.3	117.3

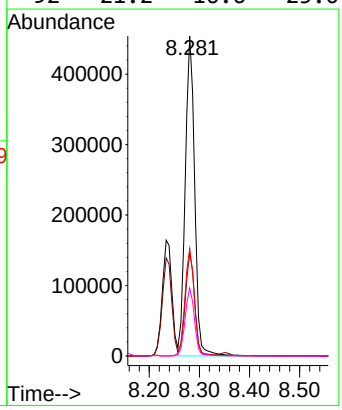


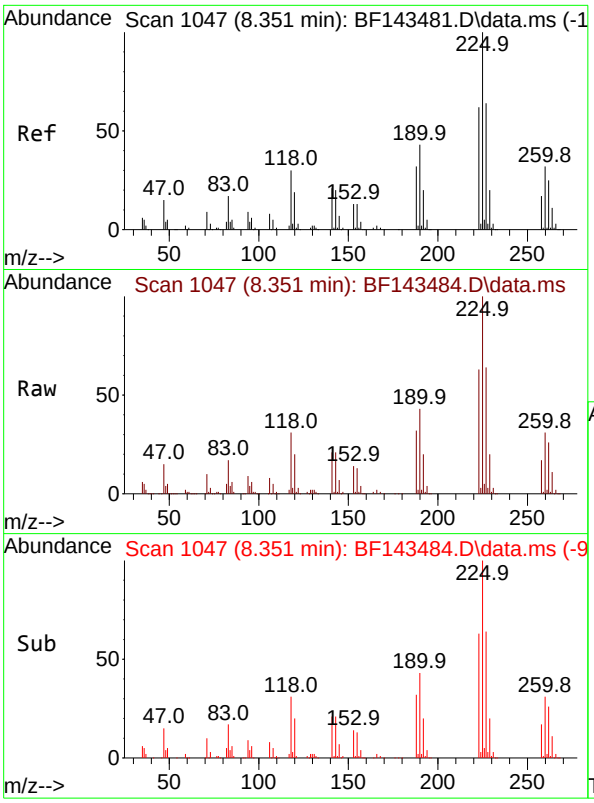


#33
4-Chloroaniline
Concen: 73.979 ng
RT: 8.281 min Scan# 1035
Delta R.T. 0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Tgt Ion:127 Resp: 593863

Ion	Ratio	Lower	Upper
127	100		
129	32.1	26.1	39.1
65	33.6	26.2	39.2
92	21.2	16.6	25.0



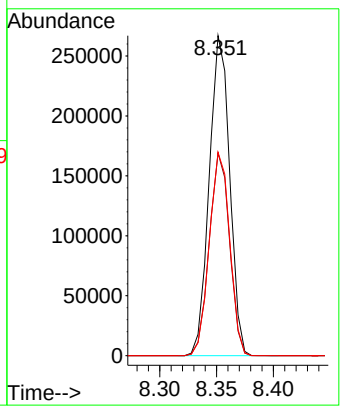


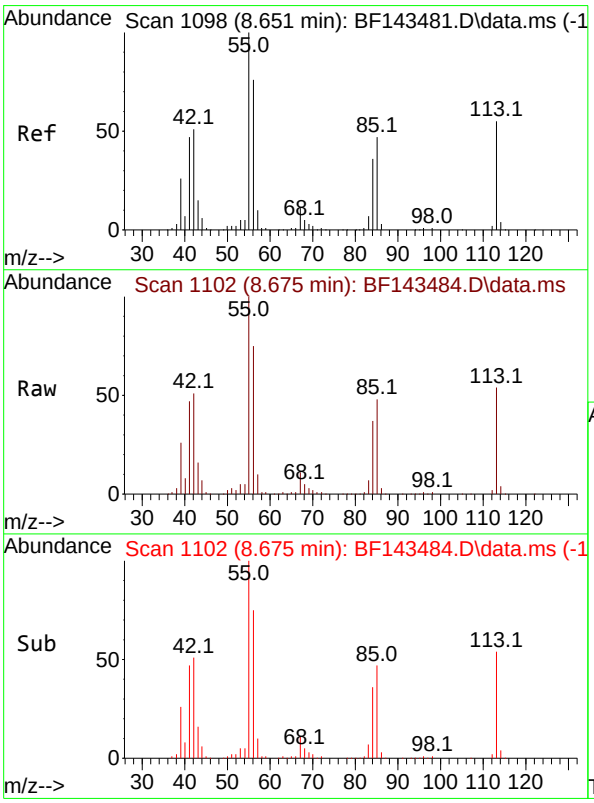
#34
Hexachlorobutadiene
Concen: 73.429 ng
RT: 8.351 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:225 Resp: 333754

Ion	Ratio	Lower	Upper
225	100		
223	63.3	49.9	74.9
227	63.6	50.9	76.3

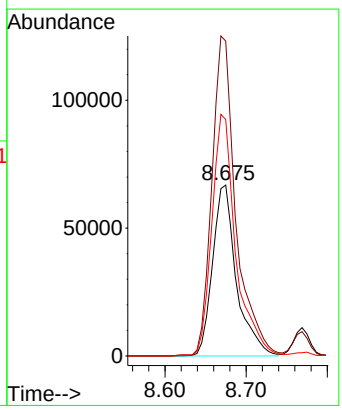


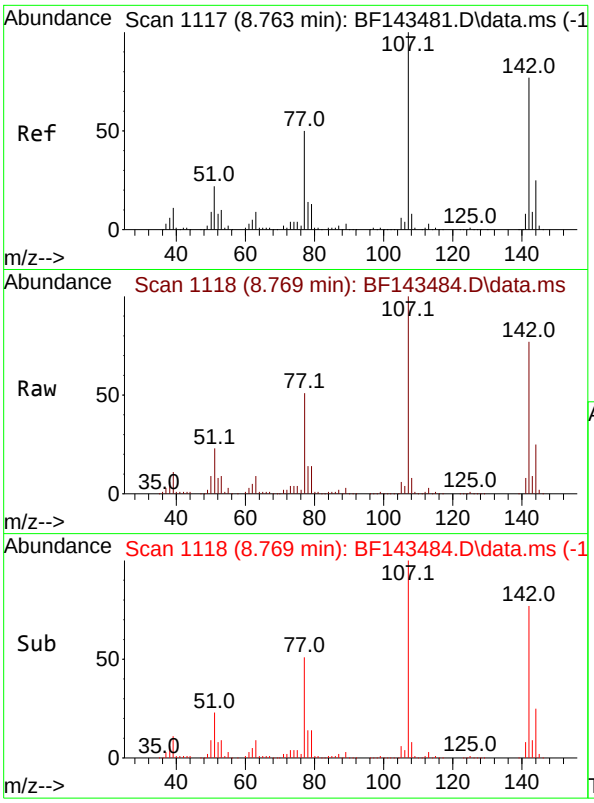


#35
Caprolactam
Concen: 83.868 ng
RT: 8.675 min Scan# 1102
Delta R.T. 0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Tgt Ion:113 Resp: 136369

Ion	Ratio	Lower	Upper
113	100		
55	184.3	162.8	202.8
56	138.5	118.1	158.1



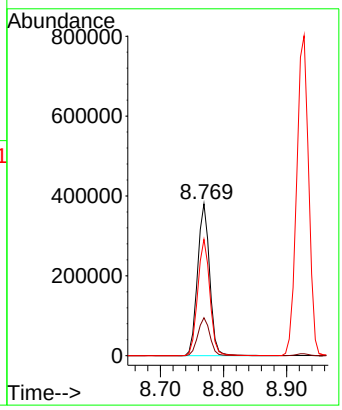


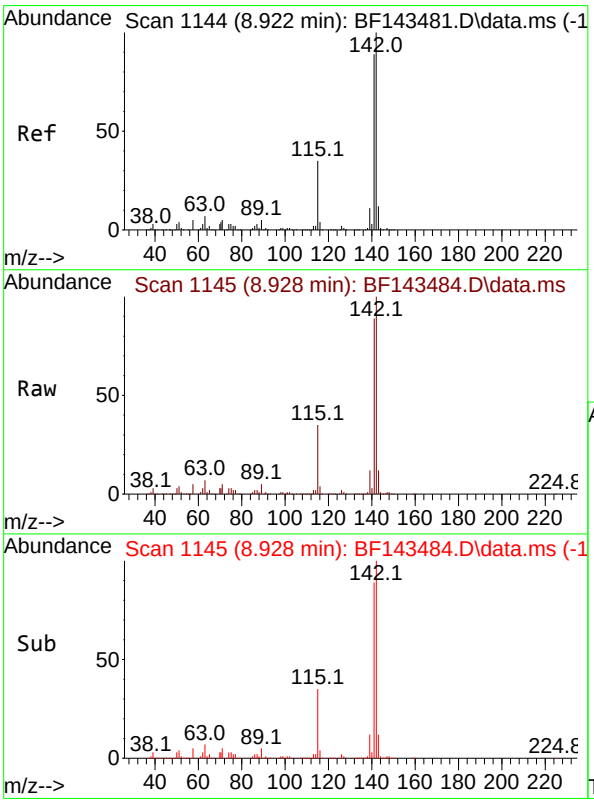
#36
4-Chloro-3-methylphenol
Concen: 74.756 ng
RT: 8.769 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:107 Resp: 507643

Ion	Ratio	Lower	Upper
107	100		
144	25.0	19.9	29.9
142	76.6	61.8	92.8

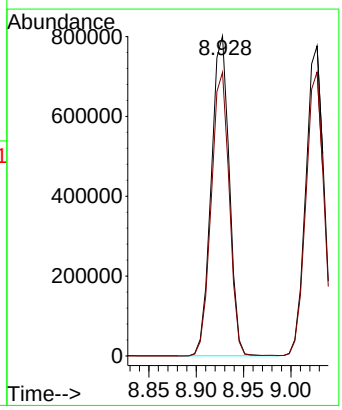


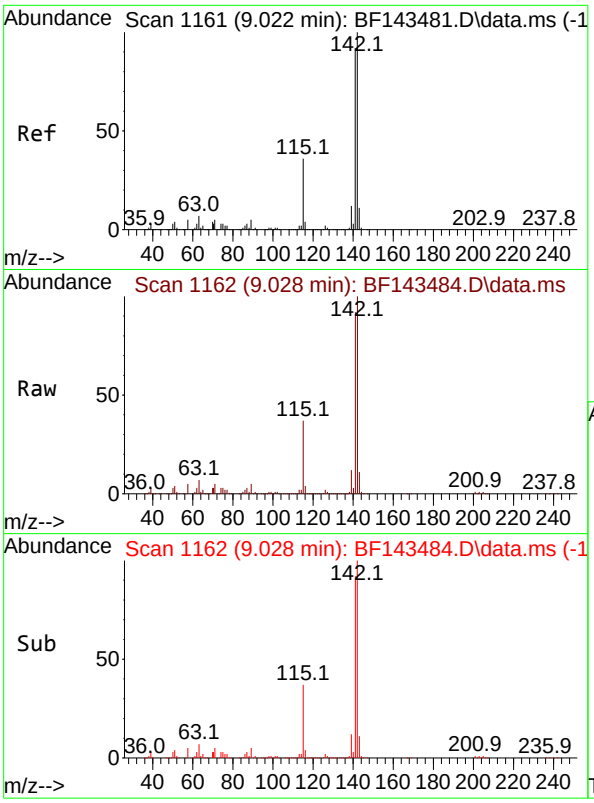


#37
2-Methylnaphthalene
Concen: 70.116 ng
RT: 8.928 min Scan# 1145
Delta R.T. 0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Tgt Ion:142 Resp: 1059150

Ion	Ratio	Lower	Upper
142	100		
141	88.6	71.0	106.4



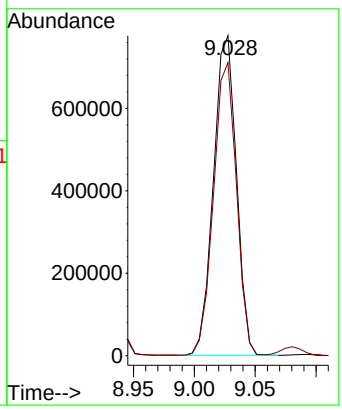


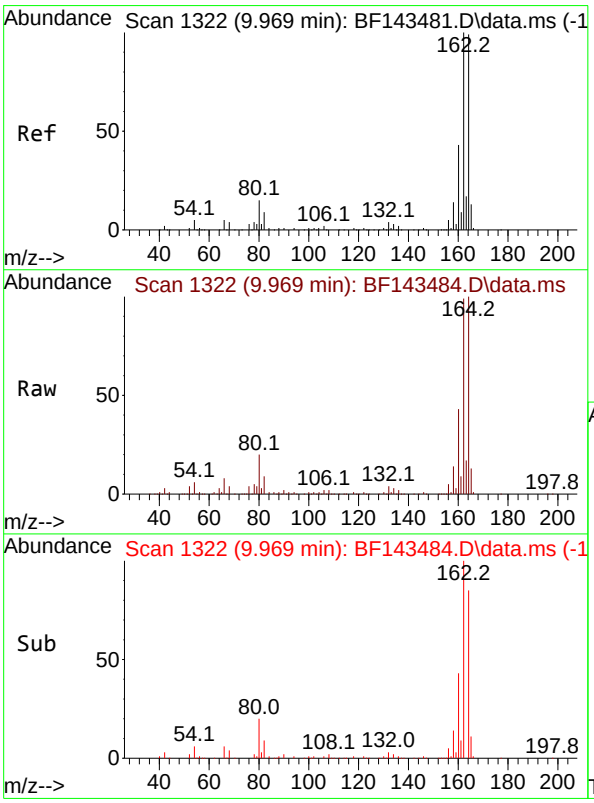
#38
1-Methylnaphthalene
Concen: 70.472 ng
RT: 9.028 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:142 Resp: 1018285

Ion	Ratio	Lower	Upper
142	100		
141	91.6	73.3	109.9

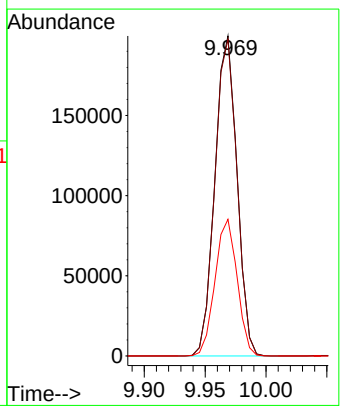


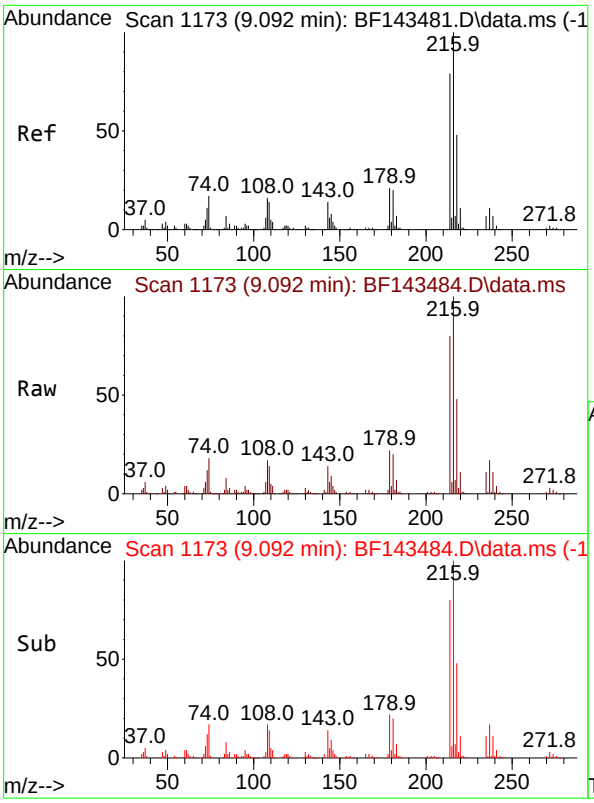


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.969 min Scan# 1322
Delta R.T. 0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Tgt Ion:164 Resp: 252899

Ion	Ratio	Lower	Upper
164	100		
162	99.1	80.5	120.7
160	42.7	34.3	51.5



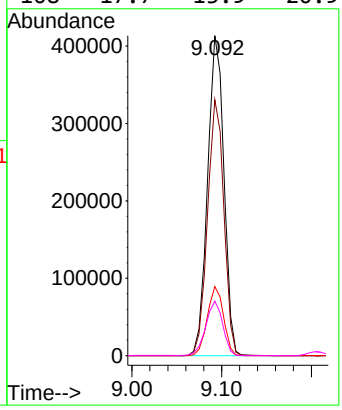


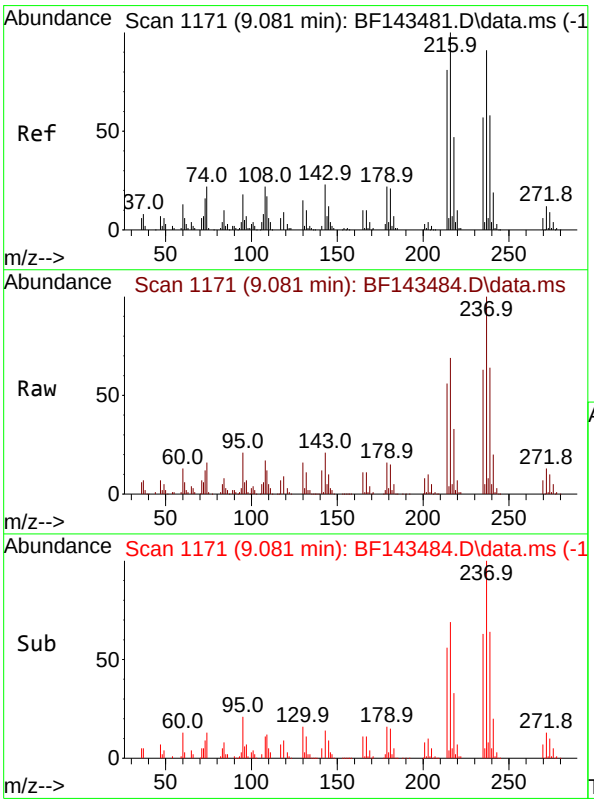
#40
1,2,4,5-Tetrachlorobenzene
Concen: 72.341 ng
RT: 9.092 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:216 Resp: 523305

Ion	Ratio	Lower	Upper
216	100		
214	80.0	63.4	95.0
179	21.4	16.5	24.7
108	17.7	13.9	20.9

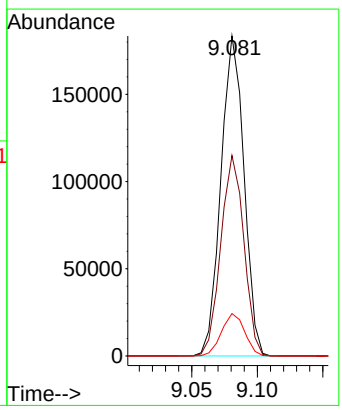


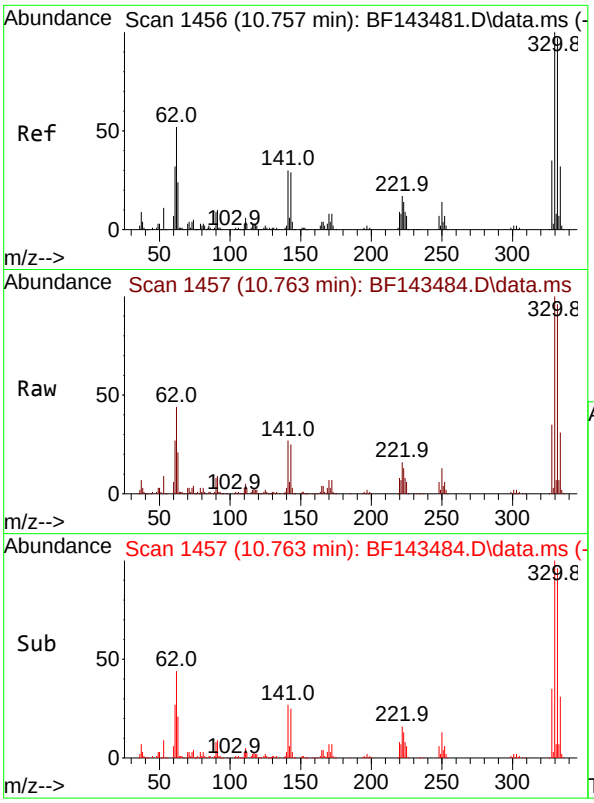


#41
Hexachlorocyclopentadiene
Concen: 79.823 ng
RT: 9.081 min Scan# 1171
Delta R.T. -0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Tgt Ion:237 Resp: 224318

Ion	Ratio	Lower	Upper
237	100		
235	62.6	42.6	82.6
272	13.3	0.0	33.4



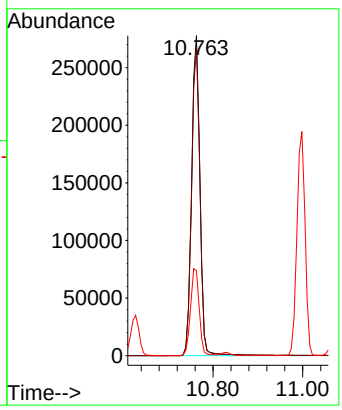


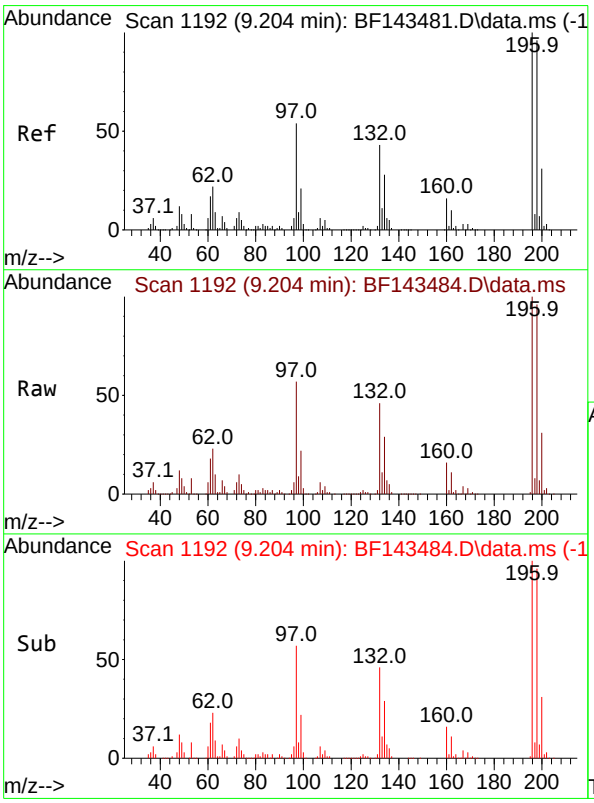
#42
2,4,6-Tribromophenol
Concen: 152.274 ng
RT: 10.763 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:330 Resp: 358471

Ion	Ratio	Lower	Upper
330	100		
332	96.9	78.0	117.0
141	28.6	23.7	35.5

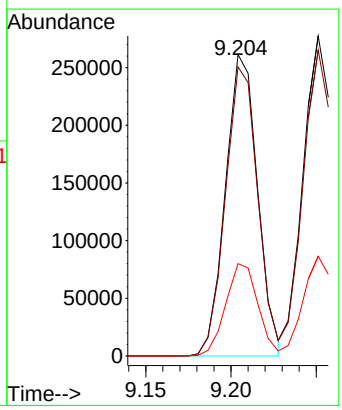


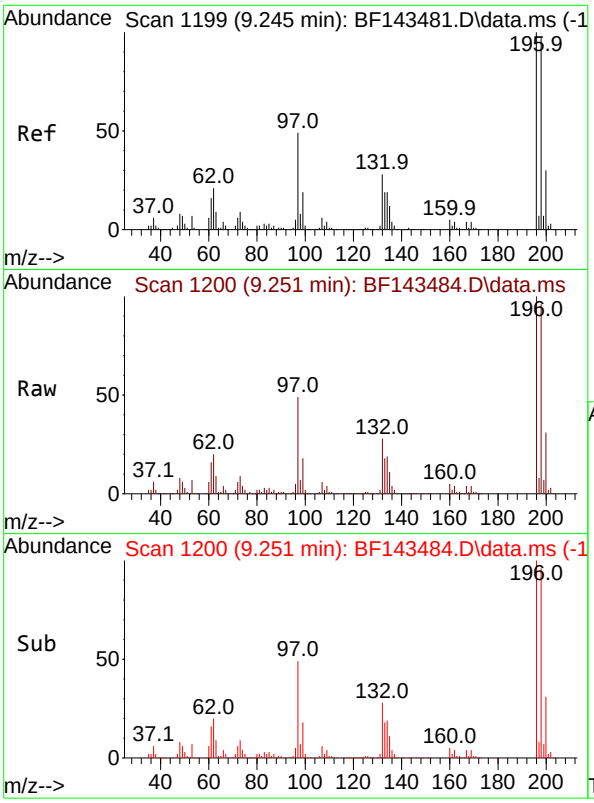


#43
2,4,6-Trichlorophenol
Concen: 76.993 ng
RT: 9.204 min Scan# 1192
Delta R.T. 0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Tgt Ion:196 Resp: 342710

Ion	Ratio	Lower	Upper
196	100		
198	95.9	77.0	115.4
200	30.6	24.6	37.0



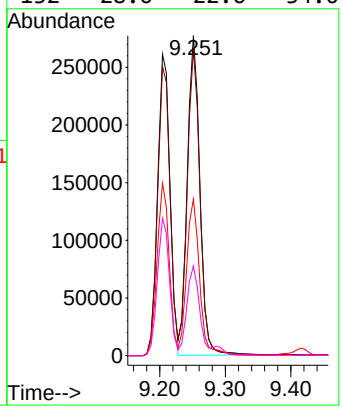


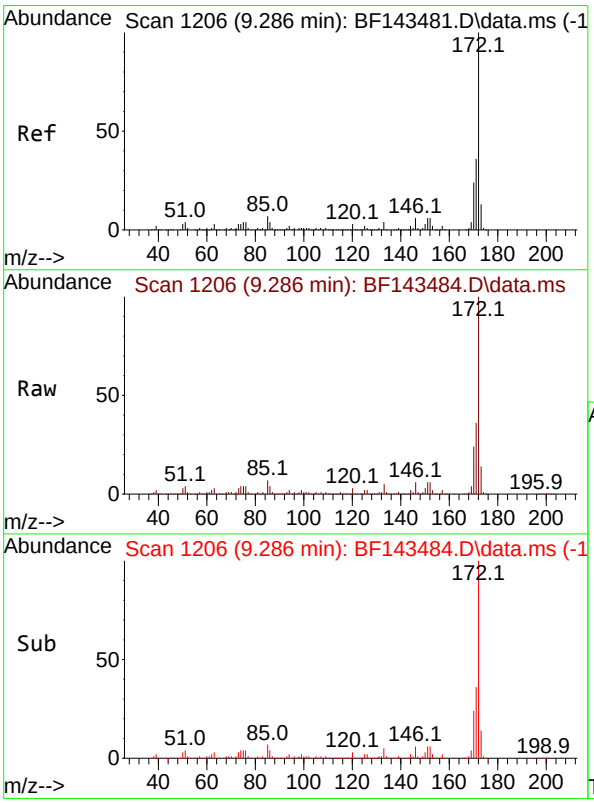
#44
2,4,5-Trichlorophenol
Concen: 75.999 ng
RT: 9.251 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:196 Resp: 369517

Ion	Ratio	Lower	Upper
196	100		
198	95.6	77.3	115.9
97	48.9	40.0	60.0
132	28.0	22.6	34.0

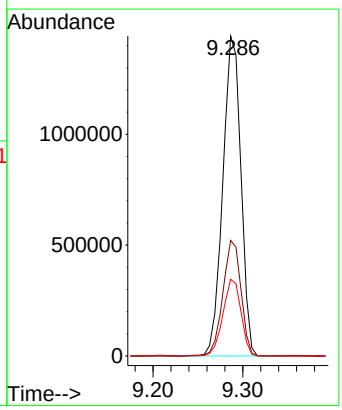


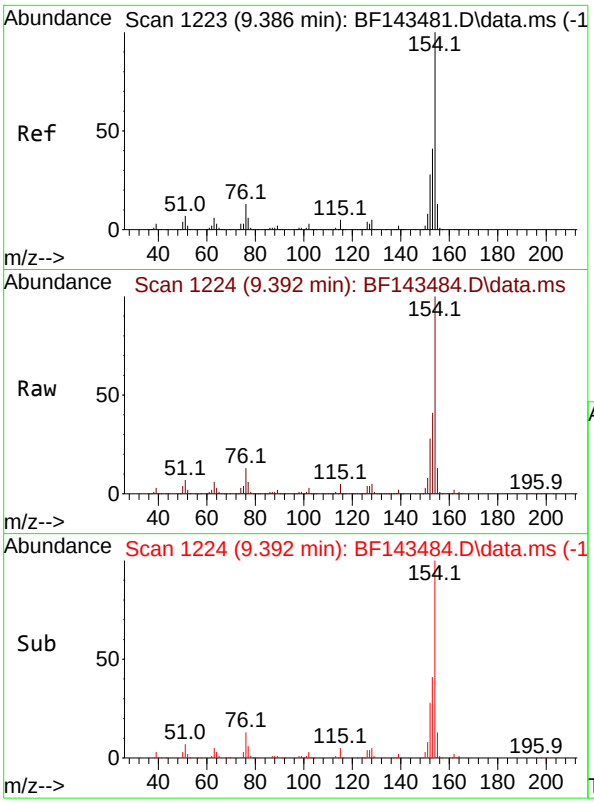


#45
2-Fluorobiphenyl
Concen: 132.140 ng
RT: 9.286 min Scan# 1206
Delta R.T. 0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Tgt Ion:172 Resp: 2022059

Ion	Ratio	Lower	Upper
172	100		
171	36.1	28.8	43.2
170	24.0	18.8	28.2



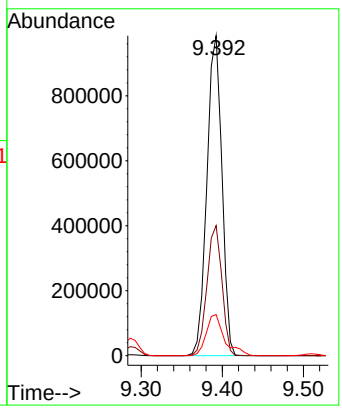


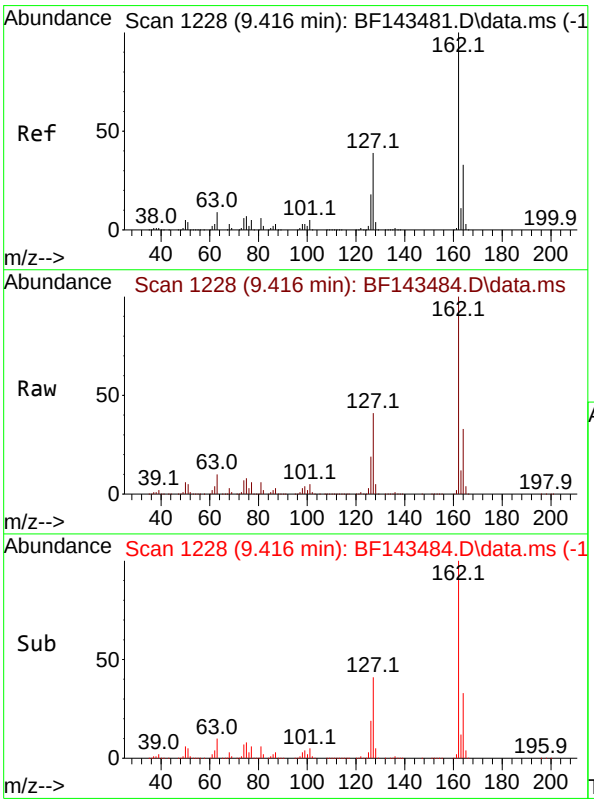
#46
1,1'-Biphenyl
Concen: 70.278 ng
RT: 9.392 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:154 Resp: 1261514

Ion	Ratio	Lower	Upper
154	100		
153	40.7	20.6	60.6
76	12.8	0.0	33.0

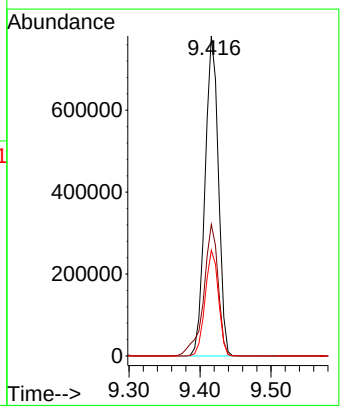


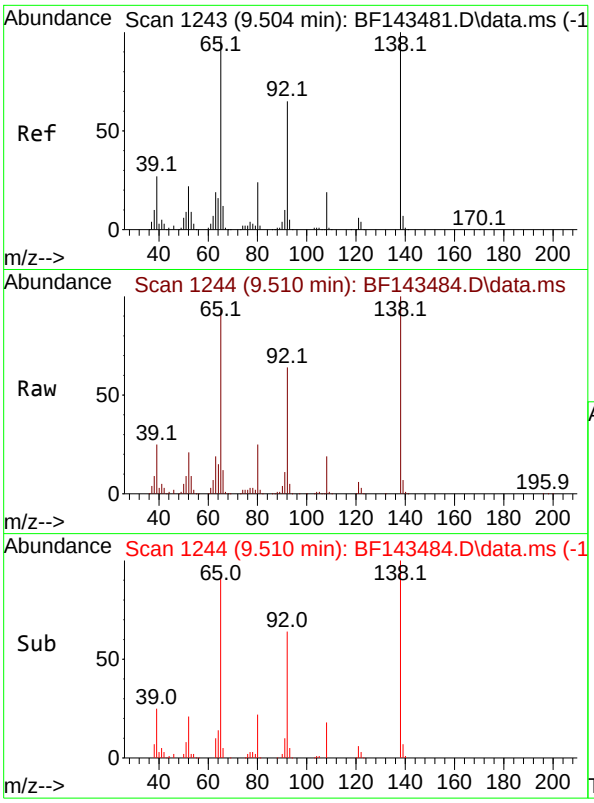


#47
2-Chloronaphthalene
Concen: 72.427 ng
RT: 9.416 min Scan# 1228
Delta R.T. -0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Tgt Ion:162 Resp: 1020070

Ion	Ratio	Lower	Upper
162	100		
127	41.1	31.8	47.6
164	33.1	26.4	39.6



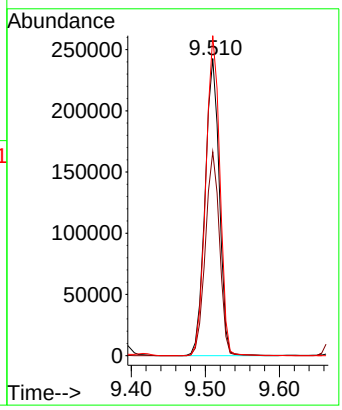


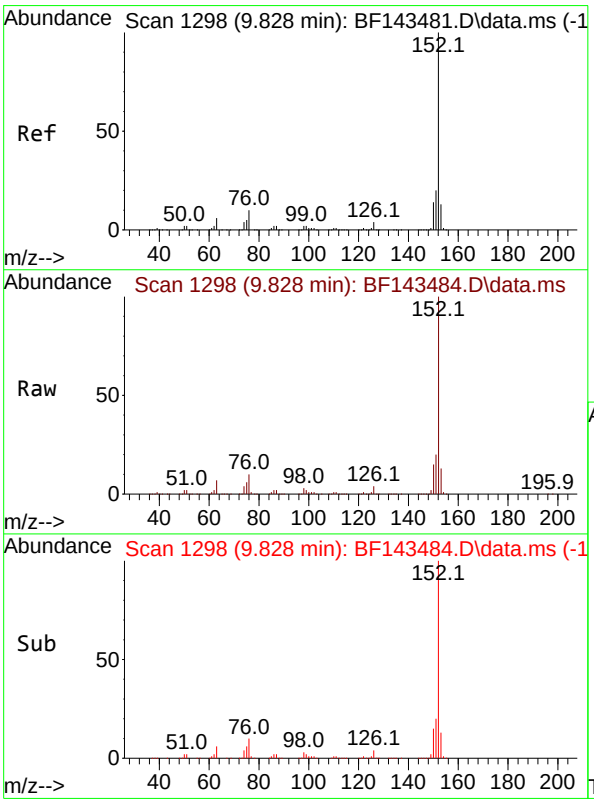
#48
2-Nitroaniline
Concen: 78.529 ng
RT: 9.510 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion: 65 Resp: 323688

Ion	Ratio	Lower	Upper
65	100		
92	68.6	53.8	80.6
138	107.7	82.4	123.6

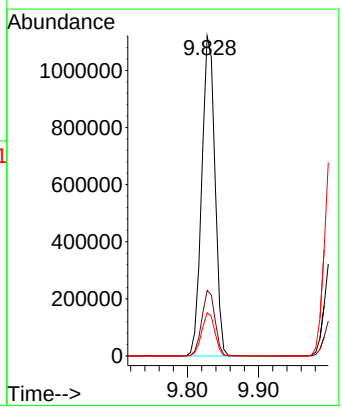


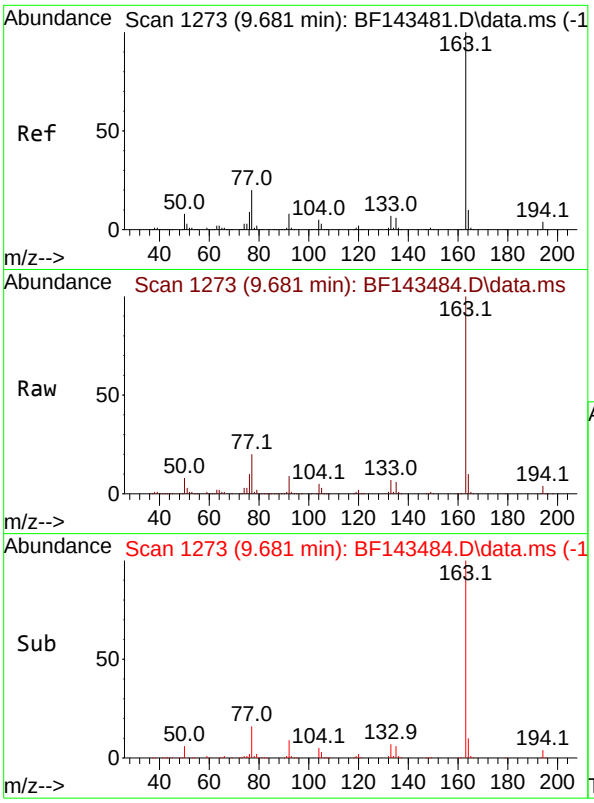


#49
Acenaphthylene
Concen: 72.067 ng
RT: 9.828 min Scan# 1298
Delta R.T. 0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Tgt Ion:152 Resp: 1453334

Ion	Ratio	Lower	Upper
152	100		
151	20.5	16.2	24.4
153	13.5	10.6	15.8



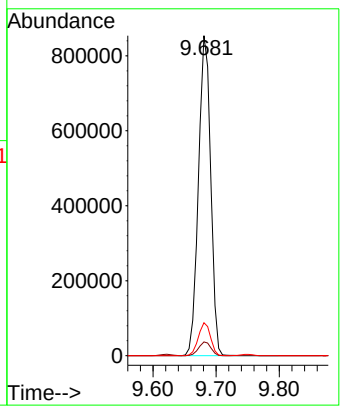


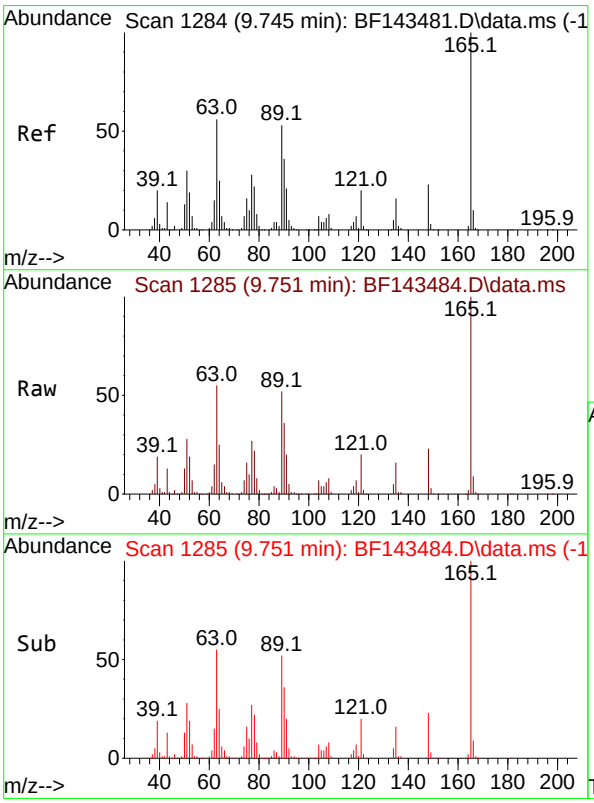
#50
Dimethylphthalate
Concen: 75.267 ng
RT: 9.681 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:163 Resp: 1146434

Ion	Ratio	Lower	Upper
163	100		
194	4.3	3.4	5.0
164	10.3	8.2	12.2

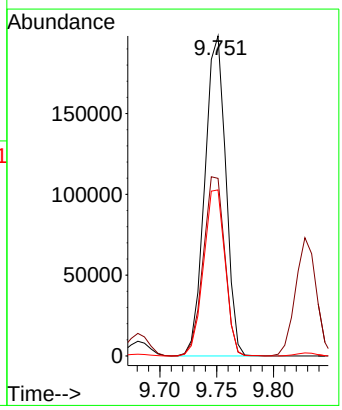


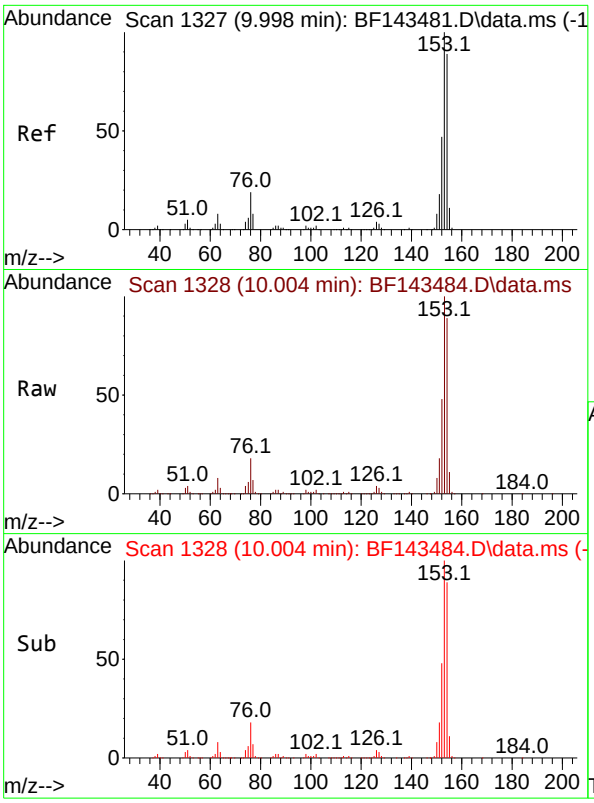


#51
2,6-Dinitrotoluene
Concen: 80.559 ng
RT: 9.751 min Scan# 1285
Delta R.T. 0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Tgt Ion:165 Resp: 254308

Ion	Ratio	Lower	Upper
165	100		
63	55.5	45.0	67.6
89	51.9	42.5	63.7



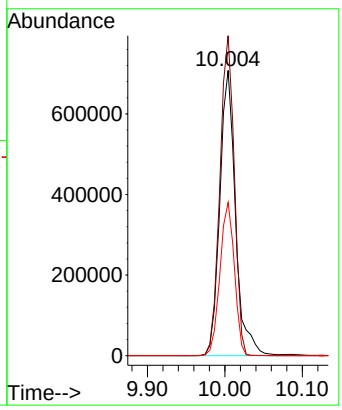


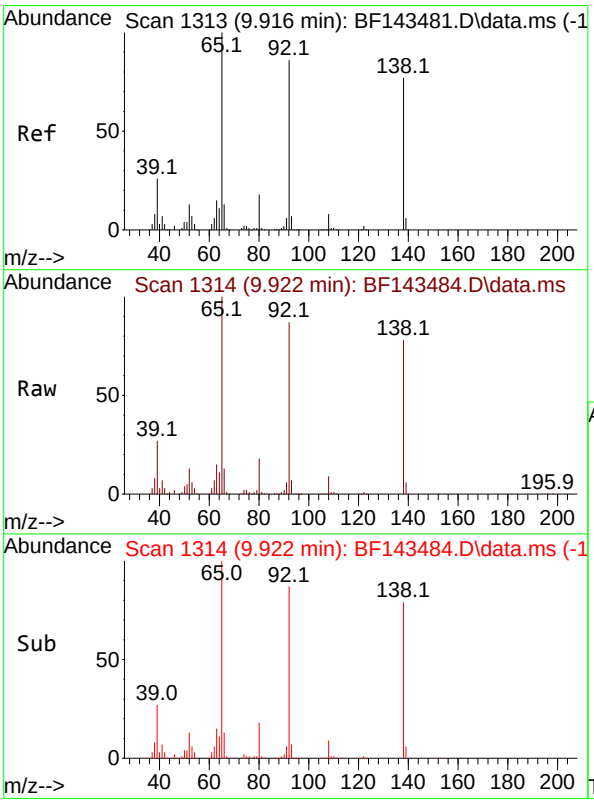
#52
Acenaphthene
Concen: 72.761 ng
RT: 10.004 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:154 Resp: 996259

Ion	Ratio	Lower	Upper
154	100		
153	112.2	89.5	134.3
152	53.7	42.5	63.7

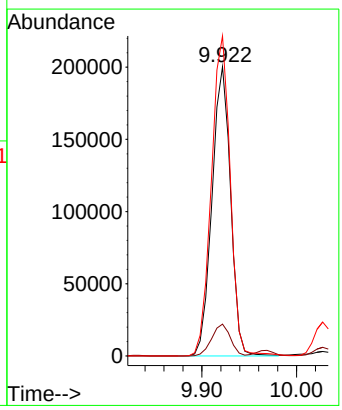


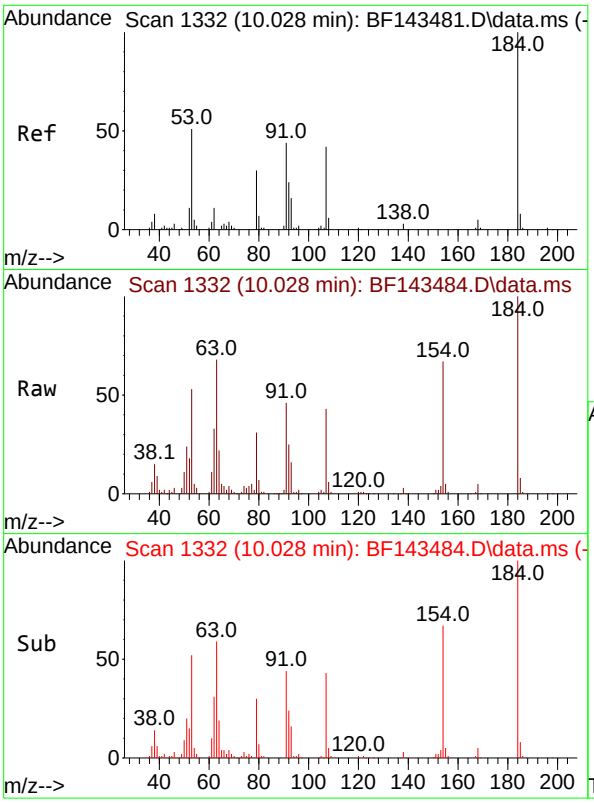


#53
3-Nitroaniline
Concen: 79.912 ng
RT: 9.922 min Scan# 1314
Delta R.T. 0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Tgt Ion:138 Resp: 272588

Ion	Ratio	Lower	Upper
138	100		
108	11.0	8.6	13.0
92	110.6	89.8	134.8



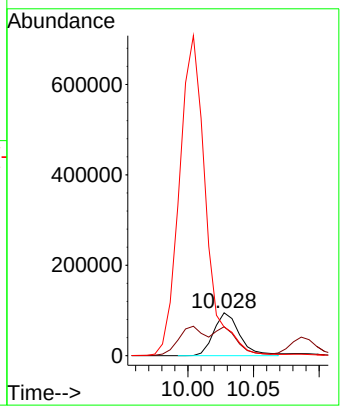


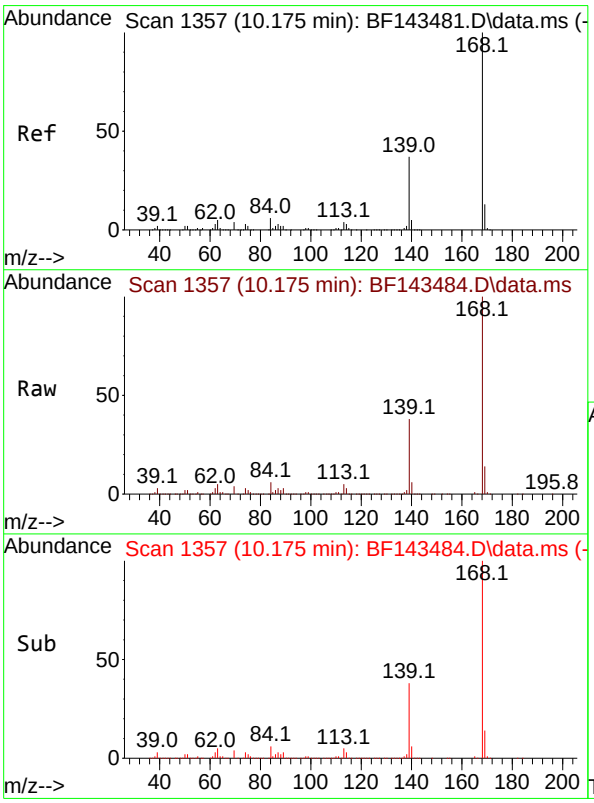
#54
2,4-Dinitrophenol
Concen: 77.416 ng
RT: 10.028 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:184 Resp: 130385

Ion	Ratio	Lower	Upper
184	100		
63	67.6	52.6	78.8
154	67.0	51.0	76.4

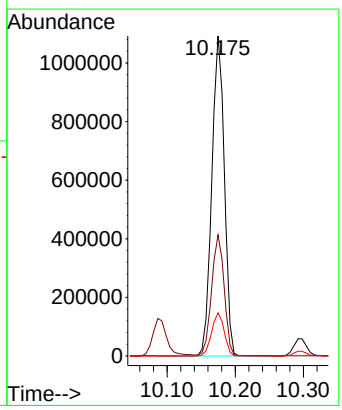


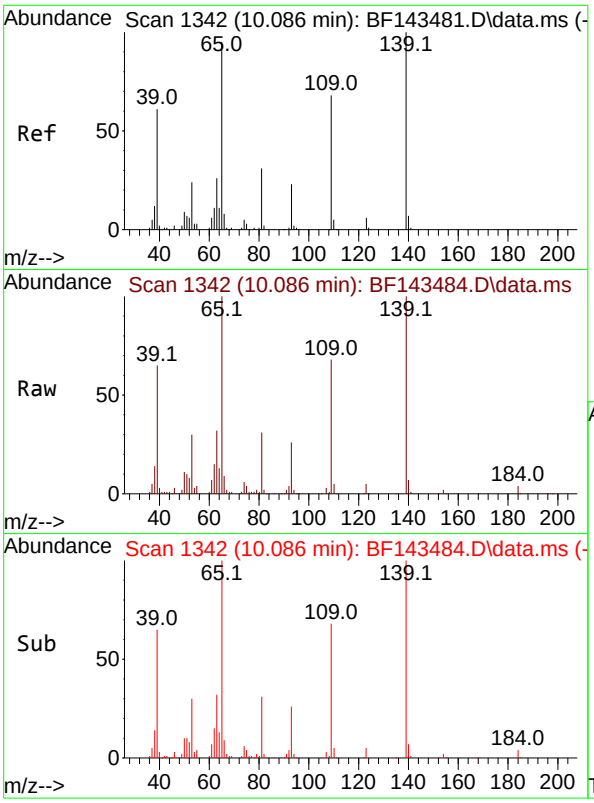


#55
Dibenzofuran
Concen: 71.547 ng
RT: 10.175 min Scan# 1357
Delta R.T. 0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Tgt Ion:168 Resp: 1396682

Ion	Ratio	Lower	Upper
168	100		
139	37.9	29.8	44.6
169	13.5	10.8	16.2



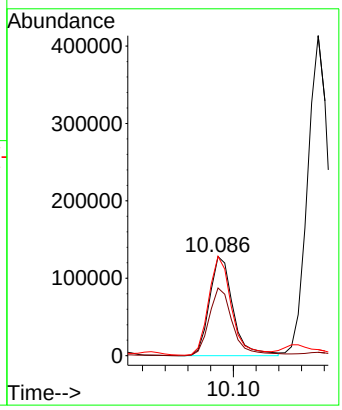


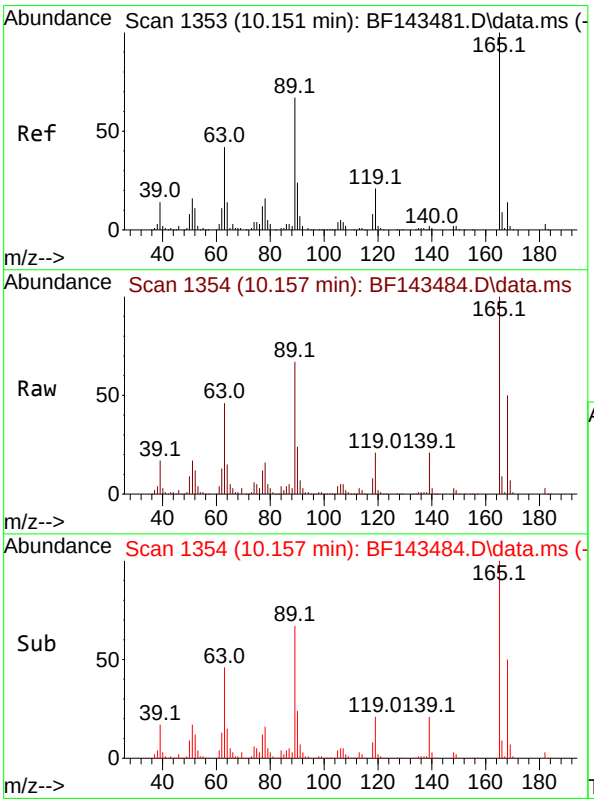
#56
4-Nitrophenol
Concen: 90.356 ng
RT: 10.086 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:139 Resp: 183388

Ion	Ratio	Lower	Upper
139	100		
109	68.3	48.2	88.2
65	100.2	75.8	115.8

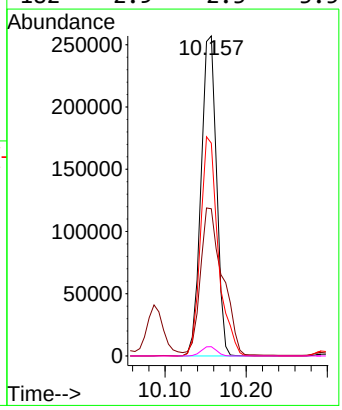


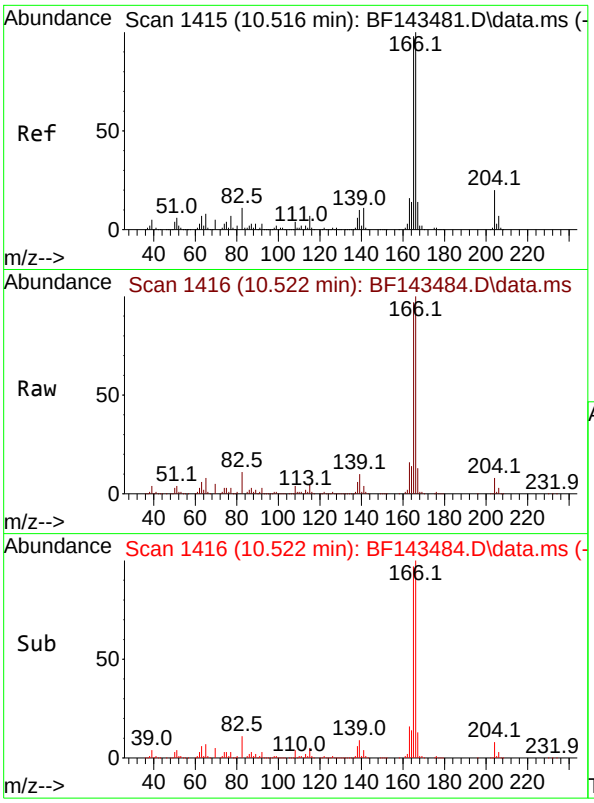


#57
2,4-Dinitrotoluene
Concen: 80.619 ng
RT: 10.157 min Scan# 1354
Delta R.T. 0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Tgt Ion:165 Resp: 339818

Ion	Ratio	Lower	Upper
165	100		
63	46.0	34.9	52.3
89	66.5	53.3	79.9
182	2.9	2.3	3.5



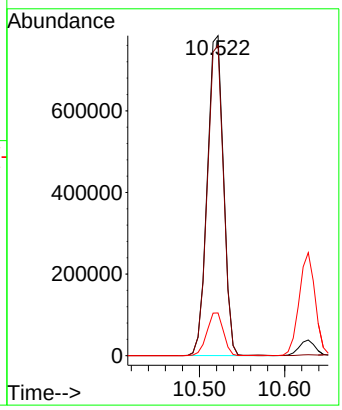


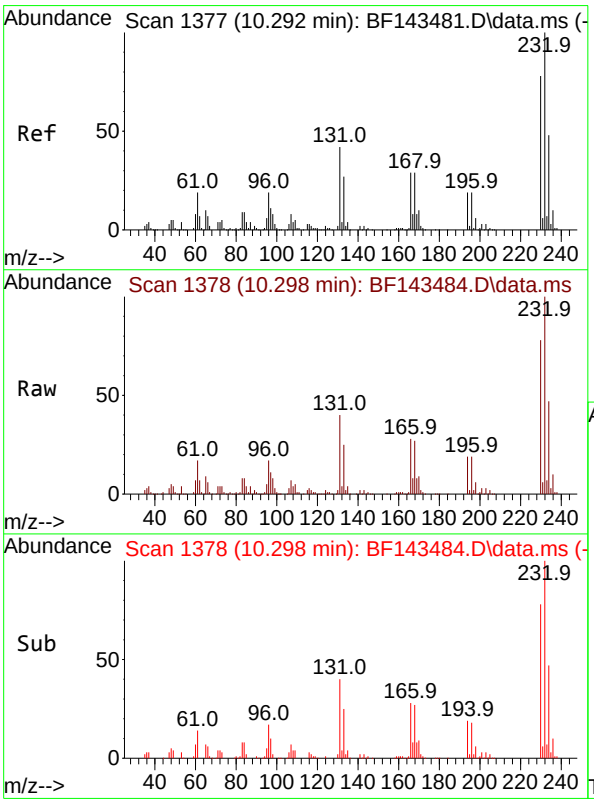
#58
Fluorene
Concen: 68.995 ng
RT: 10.522 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:166 Resp: 1036620

Ion	Ratio	Lower	Upper
166	100		
165	96.9	78.3	117.5
167	13.3	11.0	16.4

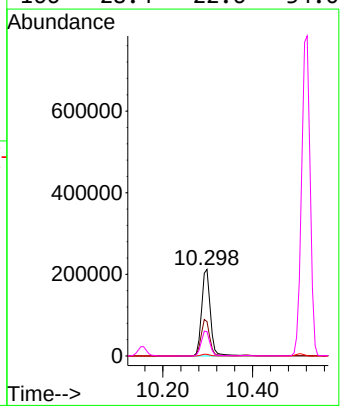


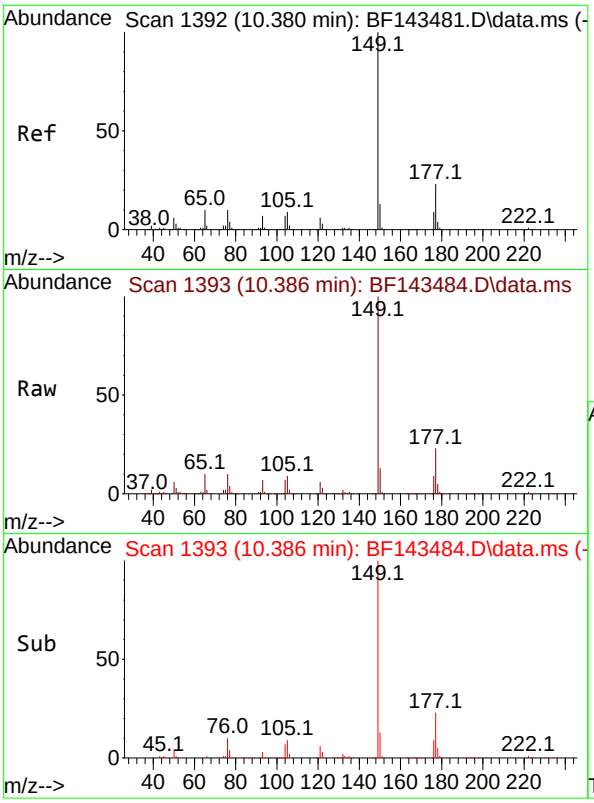


#59
2,3,4,6-Tetrachlorophenol
Concen: 80.607 ng
RT: 10.298 min Scan# 1378
Delta R.T. 0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Tgt Ion:232 Resp: 291172

Ion	Ratio	Lower	Upper
232	100		
131	41.1	32.7	49.1
130	1.9	1.6	2.4
166	28.4	22.6	34.0



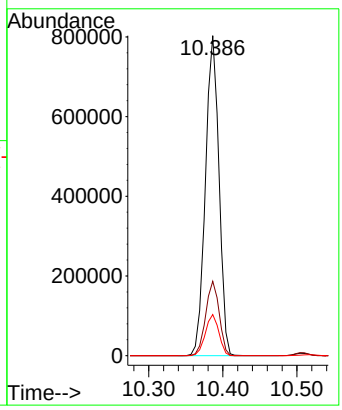


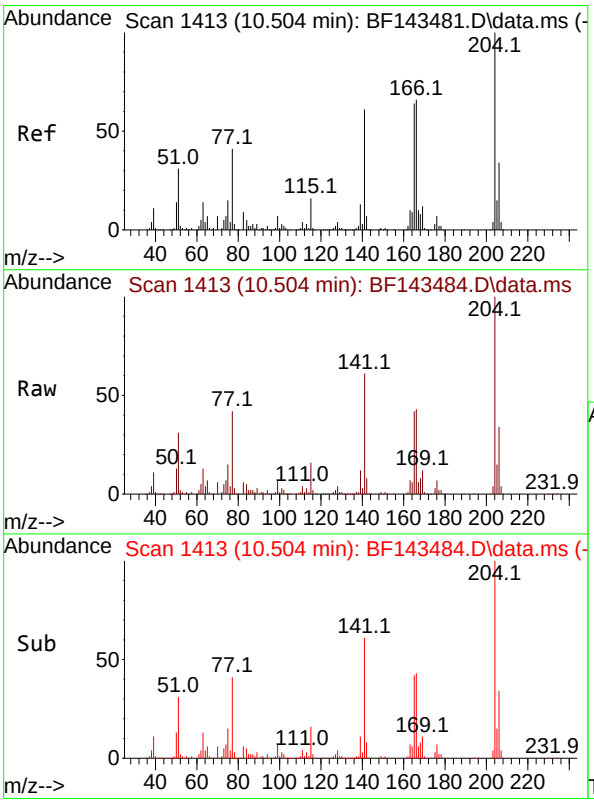
#60
Diethylphthalate
Concen: 74.653 ng
RT: 10.386 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:149 Resp: 1019464

Ion	Ratio	Lower	Upper
149	100		
177	23.2	18.3	27.5
150	12.9	10.3	15.5

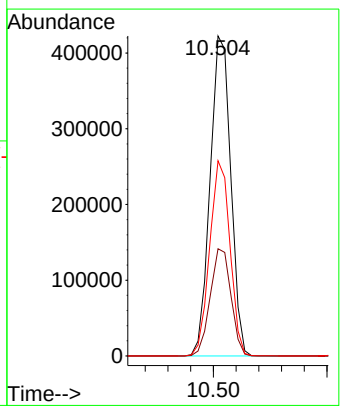


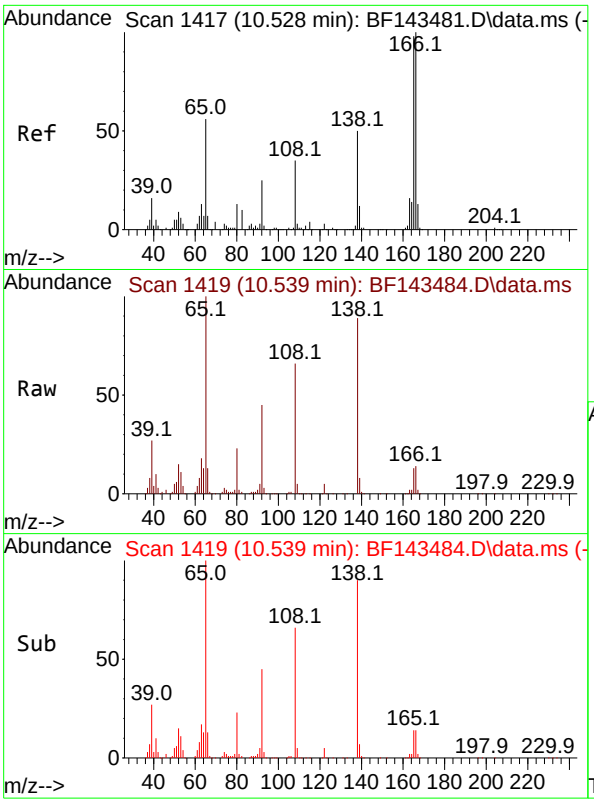


#61
4-Chlorophenyl-phenylether
Concen: 70.930 ng
RT: 10.504 min Scan# 1413
Delta R.T. 0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Tgt Ion:204 Resp: 532970

Ion	Ratio	Lower	Upper
204	100		
206	33.5	27.0	40.4
141	61.0	48.7	73.1



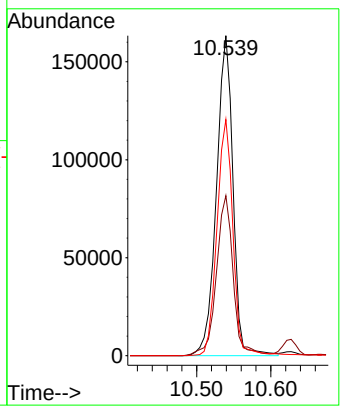


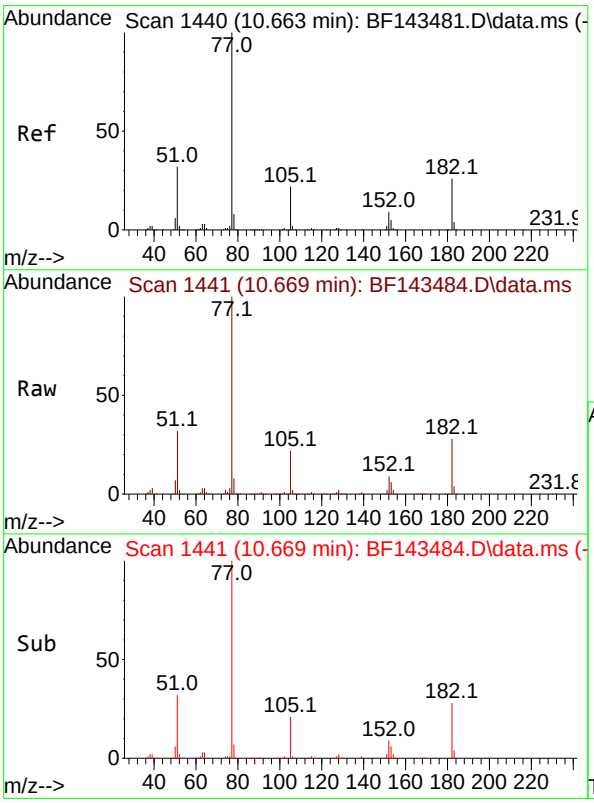
#62
4-Nitroaniline
Concen: 80.815 ng
RT: 10.539 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:138 Resp: 253207

Ion	Ratio	Lower	Upper
138	100		
92	50.0	29.3	69.3
108	73.8	50.7	90.7

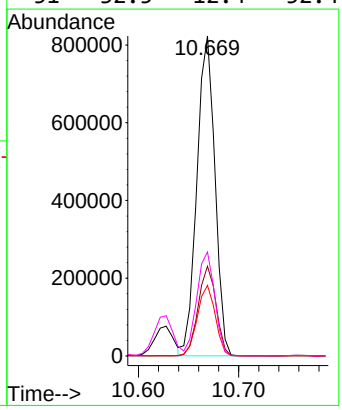


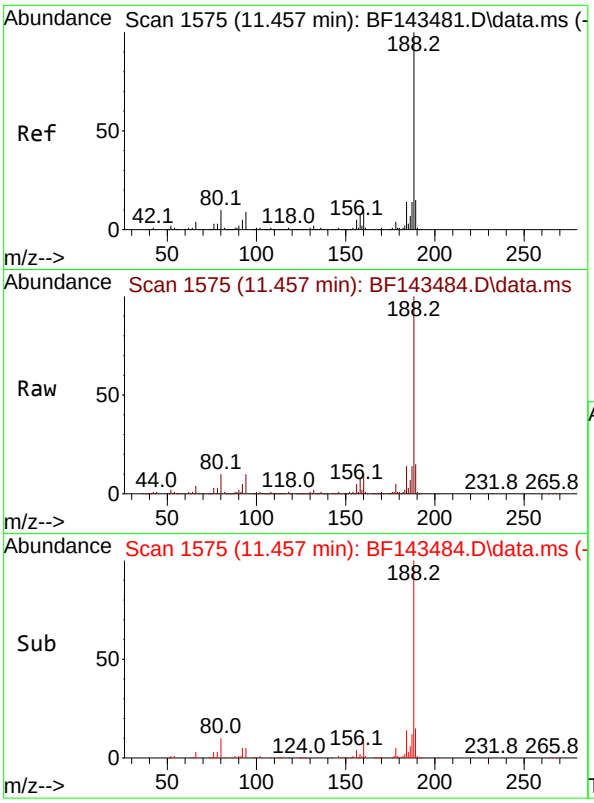


#63
Azobenzene
Concen: 72.699 ng
RT: 10.669 min Scan# 1441
Delta R.T. 0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Tgt Ion: 77 Resp: 1029397

Ion	Ratio	Lower	Upper
77	100		
182	28.1	6.2	46.2
105	22.0	2.2	42.2
51	32.5	12.4	52.4



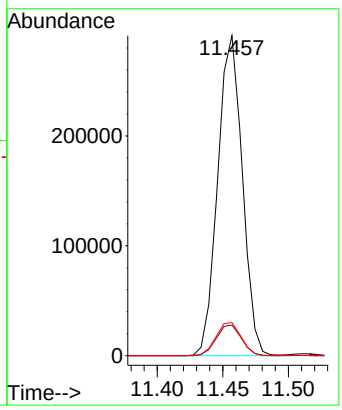


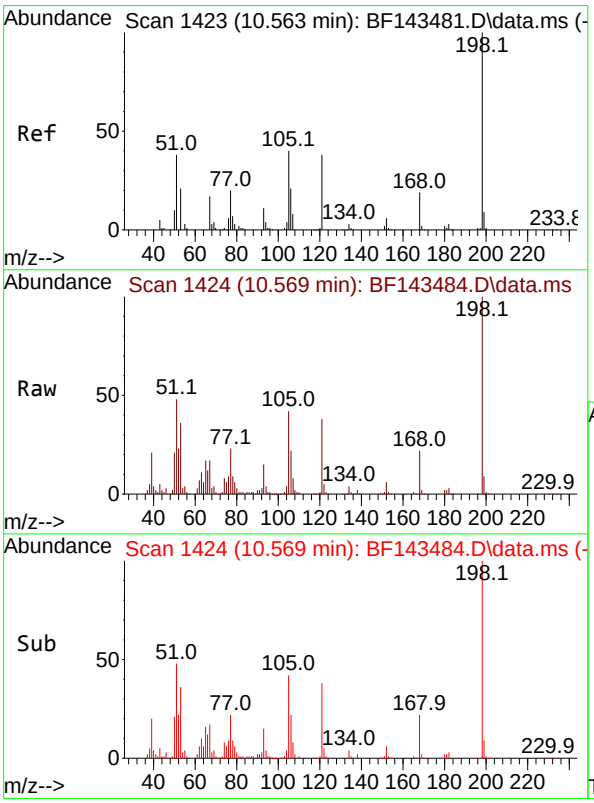
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.457 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:188 Resp: 380140

Ion	Ratio	Lower	Upper
188	100		
94	9.6	7.4	11.2
80	10.3	8.2	12.4

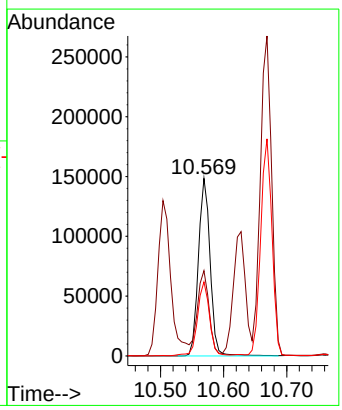


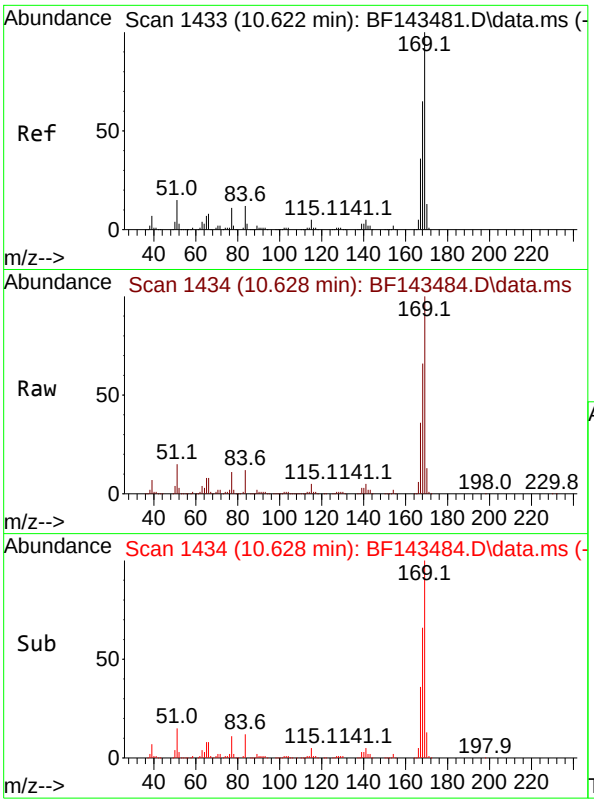


#65
4,6-Dinitro-2-methylphenol
Concen: 89.041 ng
RT: 10.569 min Scan# 1424
Delta R.T. 0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Tgt Ion:198 Resp: 190849

Ion	Ratio	Lower	Upper
198	100		
51	48.1	29.6	69.6
105	41.7	21.5	61.5



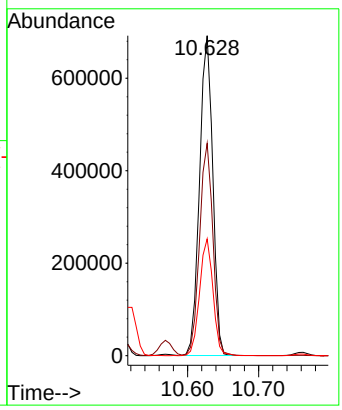


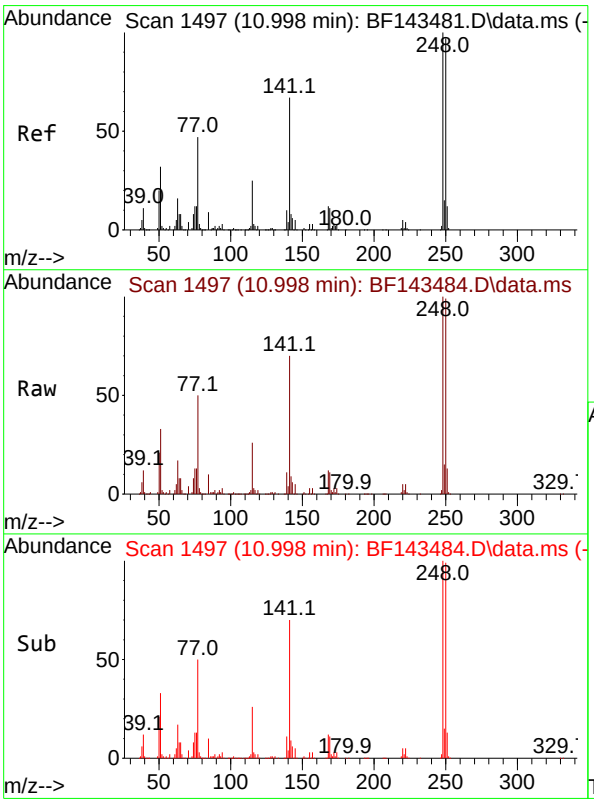
#66
n-Nitrosodiphenylamine
Concen: 73.307 ng
RT: 10.628 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:169 Resp: 896806

Ion	Ratio	Lower	Upper
169	100		
168	66.4	52.4	78.6
167	36.5	28.9	43.3

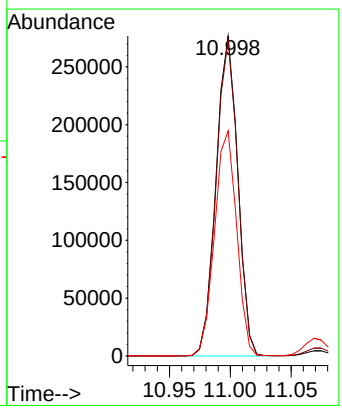


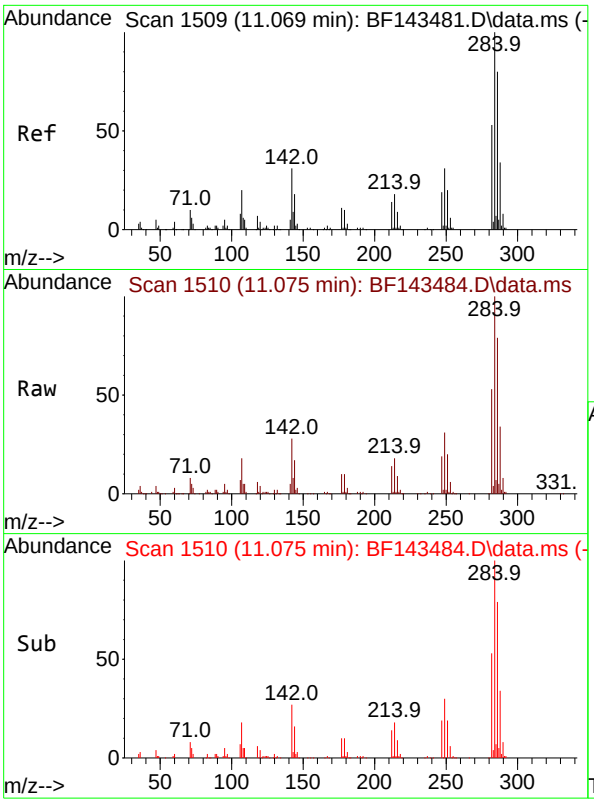


#67
4-Bromophenyl-phenylether
Concen: 75.979 ng
RT: 10.998 min Scan# 1497
Delta R.T. 0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Tgt Ion:248 Resp: 344616

Ion	Ratio	Lower	Upper
248	100		
250	98.7	77.8	116.8
141	70.4	54.0	81.0



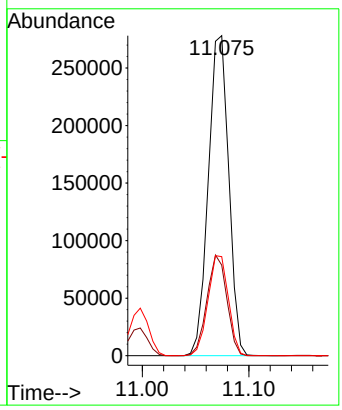


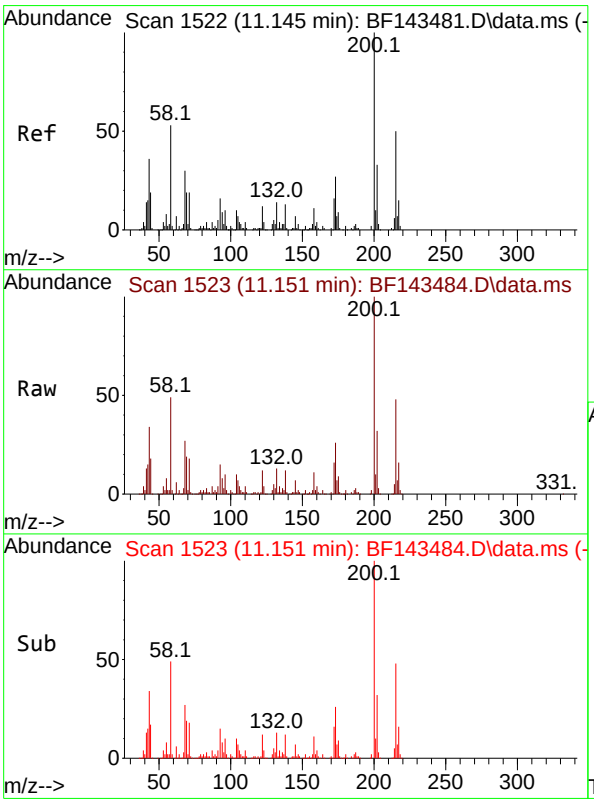
#68
Hexachlorobenzene
Concen: 75.603 ng
RT: 11.075 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:284 Resp: 369632

Ion	Ratio	Lower	Upper
284	100		
142	28.3	24.4	36.6
249	31.0	25.0	37.6

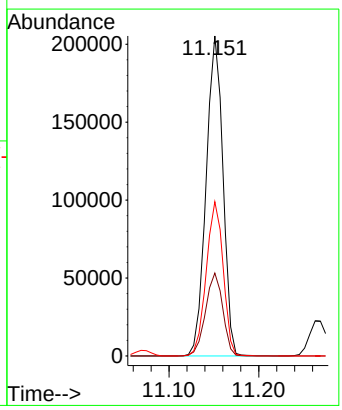


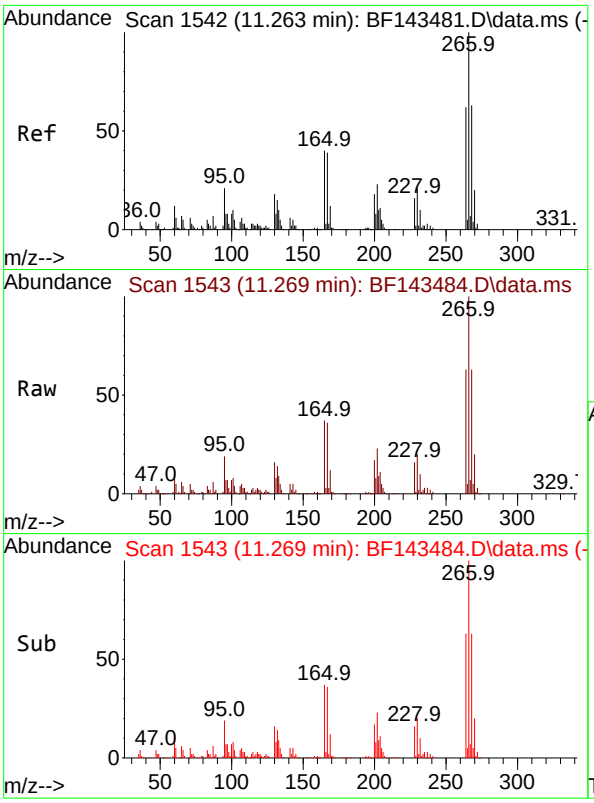


#69
Atrazine
Concen: 84.774 ng
RT: 11.151 min Scan# 1523
Delta R.T. 0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Tgt Ion:200 Resp: 267710

Ion	Ratio	Lower	Upper
200	100		
173	25.9	6.9	46.9
215	48.2	30.0	70.0



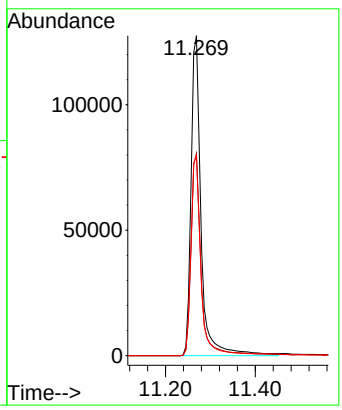


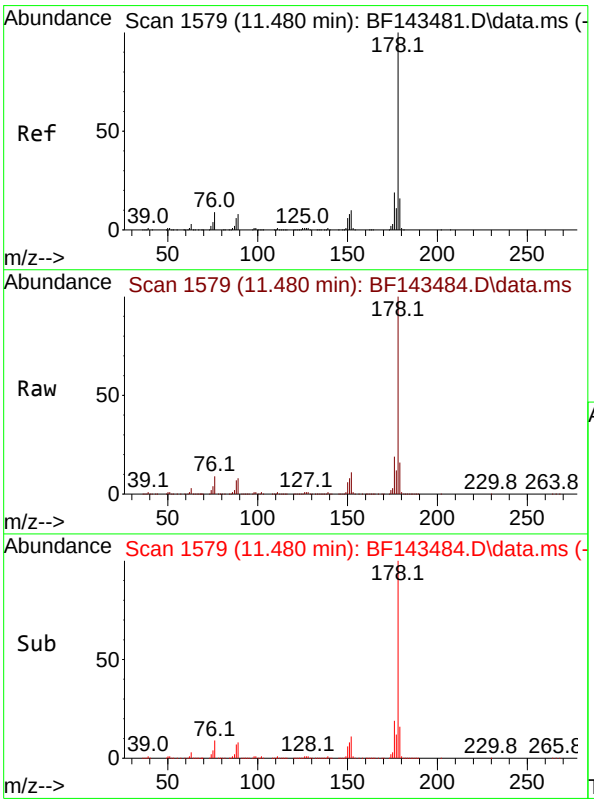
#70
Pentachlorophenol
Concen: 88.721 ng
RT: 11.269 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:266 Resp: 198658

Ion	Ratio	Lower	Upper
266	100		
268	63.2	50.5	75.7
264	62.7	49.8	74.8

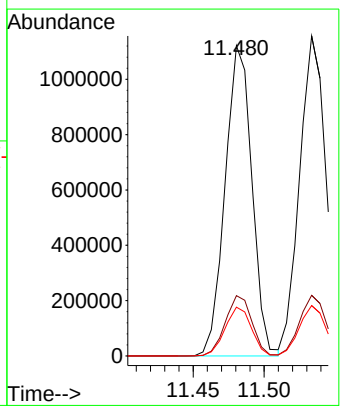


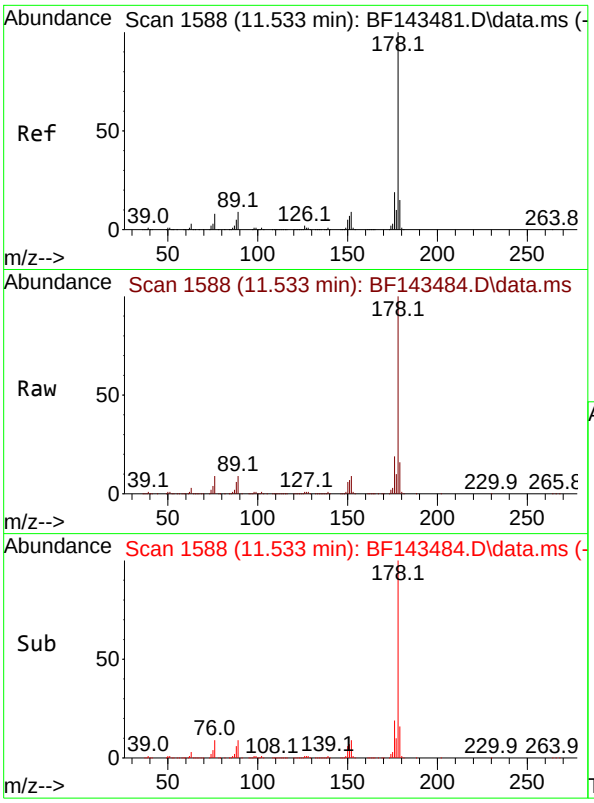


#71
Phenanthrene
Concen: 72.378 ng
RT: 11.480 min Scan# 1579
Delta R.T. 0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Tgt Ion:178 Resp: 1473414

Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.5	23.3
179	15.7	12.5	18.7



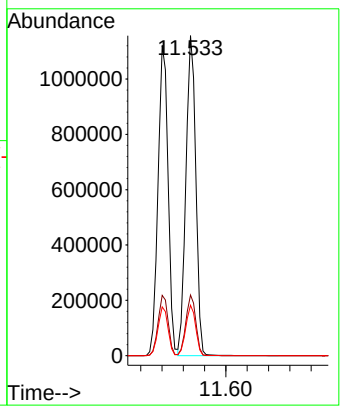


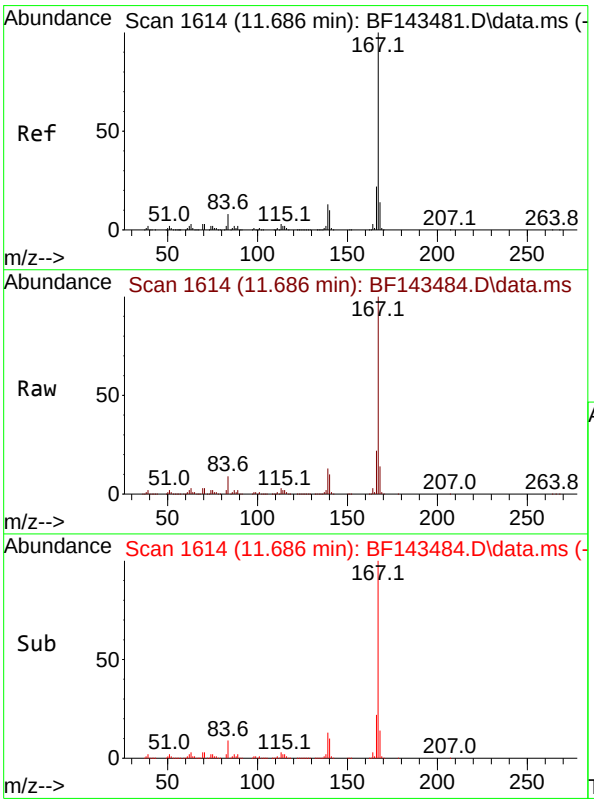
#72
Anthracene
Concen: 72.232 ng
RT: 11.533 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:178 Resp: 1489612

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.0	22.4
179	15.7	12.3	18.5

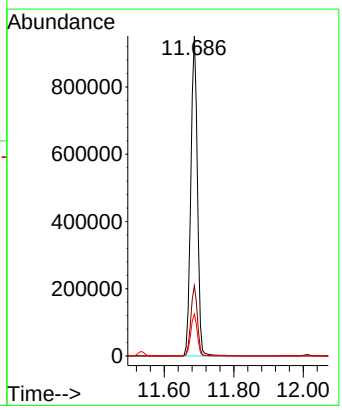


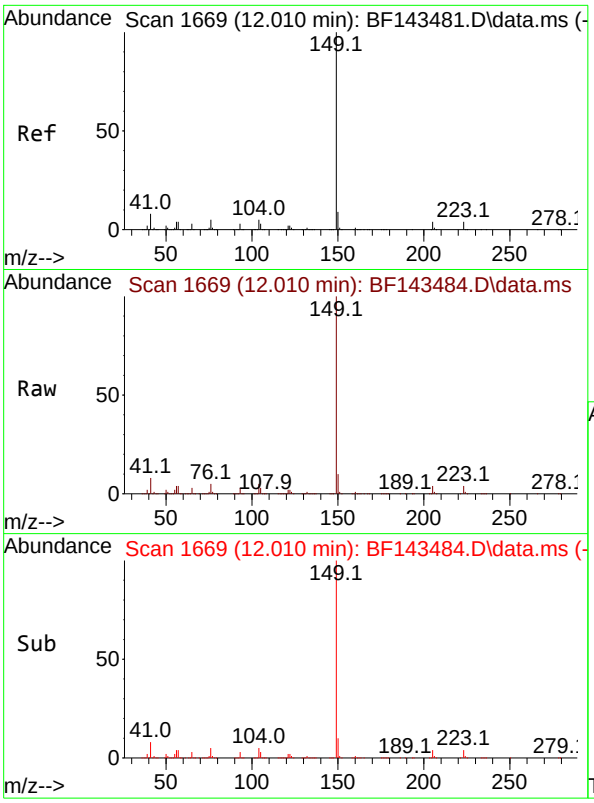


#73
Carbazole
Concen: 74.240 ng
RT: 11.686 min Scan# 1614
Delta R.T. 0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Tgt Ion:167 Resp: 1254509

Ion	Ratio	Lower	Upper
167	100		
166	21.9	17.3	25.9
139	13.1	10.0	15.0



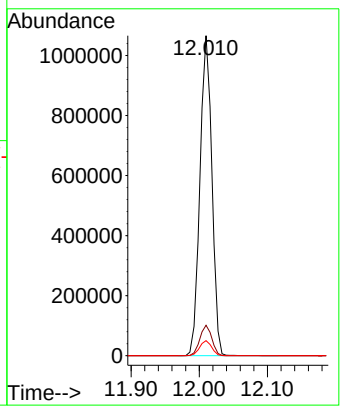


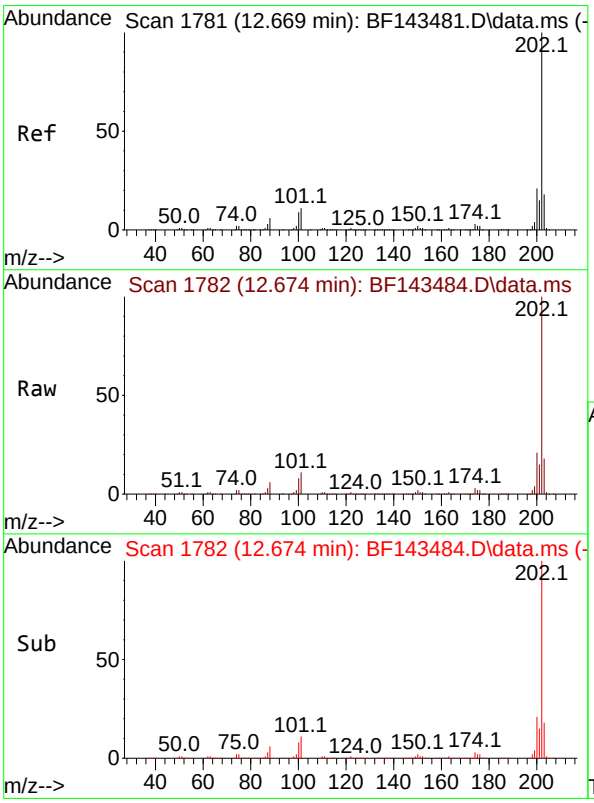
#74
Di-n-butylphthalate
Concen: 82.429 ng
RT: 12.010 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:149 Resp: 1299399

Ion	Ratio	Lower	Upper
149	100		
150	9.5	7.2	10.8
104	4.7	3.6	5.4

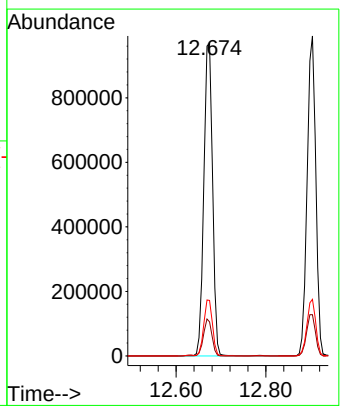


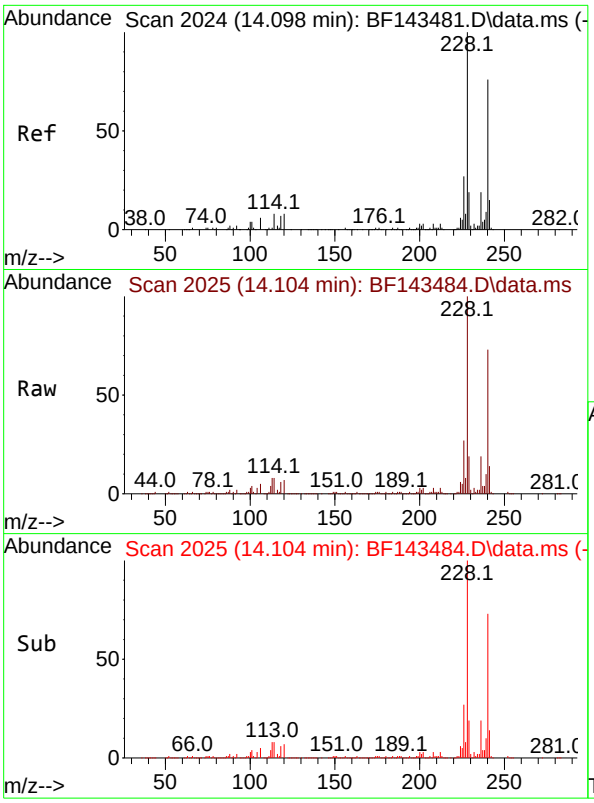


#75
Fluoranthene
Concen: 71.750 ng
RT: 12.674 min Scan# 1782
Delta R.T. 0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Tgt Ion:202 Resp: 1310616

Ion	Ratio	Lower	Upper
202	100		
101	10.9	0.0	31.3
203	17.8	0.0	37.9



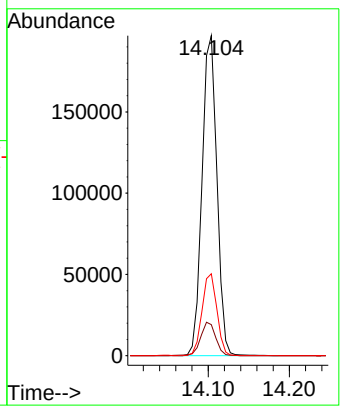


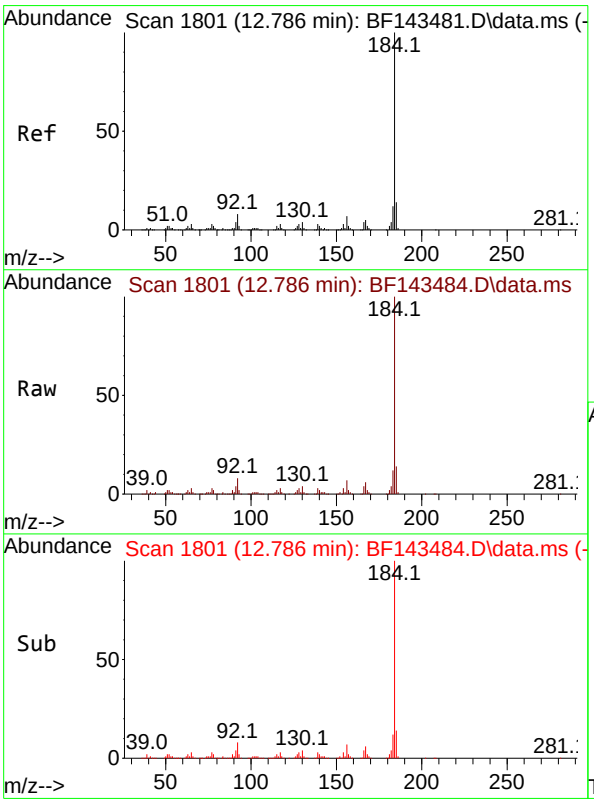
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.104 min Scan# 2(
Delta R.T. 0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:240 Resp: 250059

Ion	Ratio	Lower	Upper
240	100		
120	9.7	8.6	12.8
236	25.6	20.4	30.6

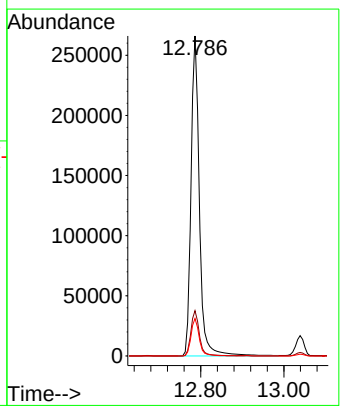


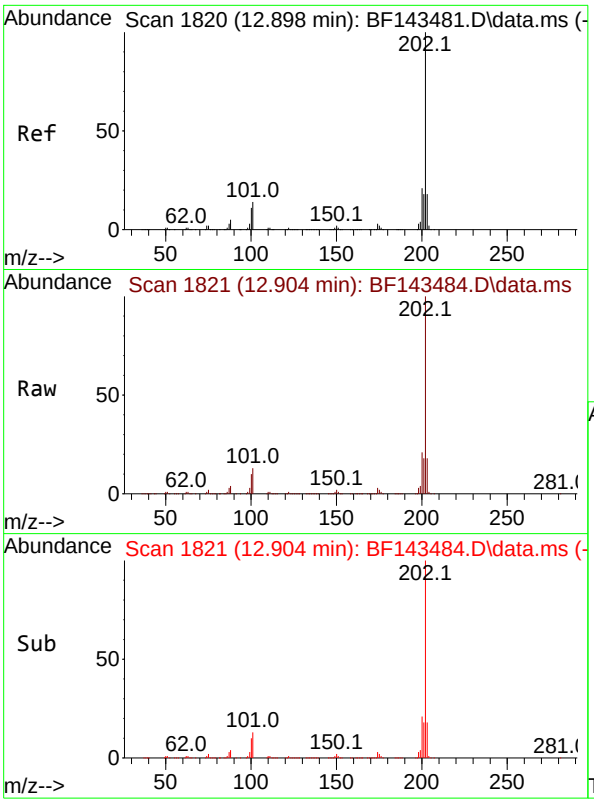


#77
Benzidine
Concen: 61.042 ng
RT: 12.786 min Scan# 1801
Delta R.T. 0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Tgt Ion:184 Resp: 371810

Ion	Ratio	Lower	Upper
184	100		
185	14.2	11.3	16.9
183	11.7	9.5	14.3



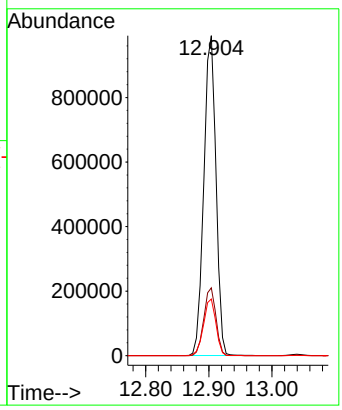


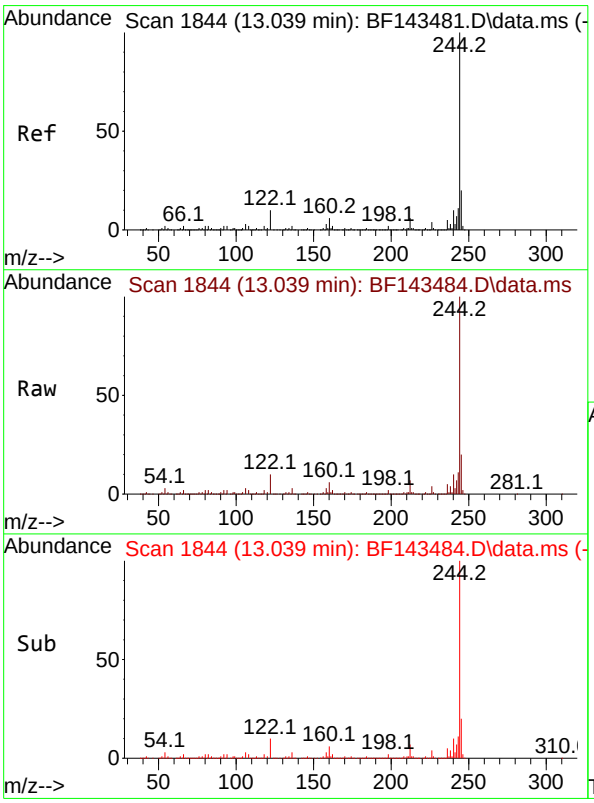
#78
Pyrene
Concen: 64.536 ng
RT: 12.904 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:202 Resp: 1327454

Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.0	25.4
203	17.7	14.3	21.5

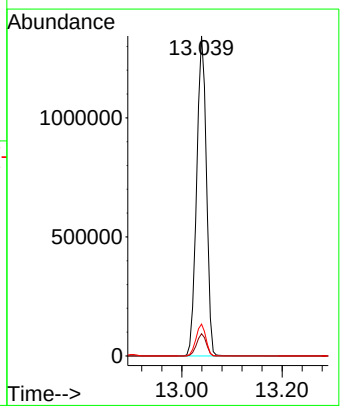


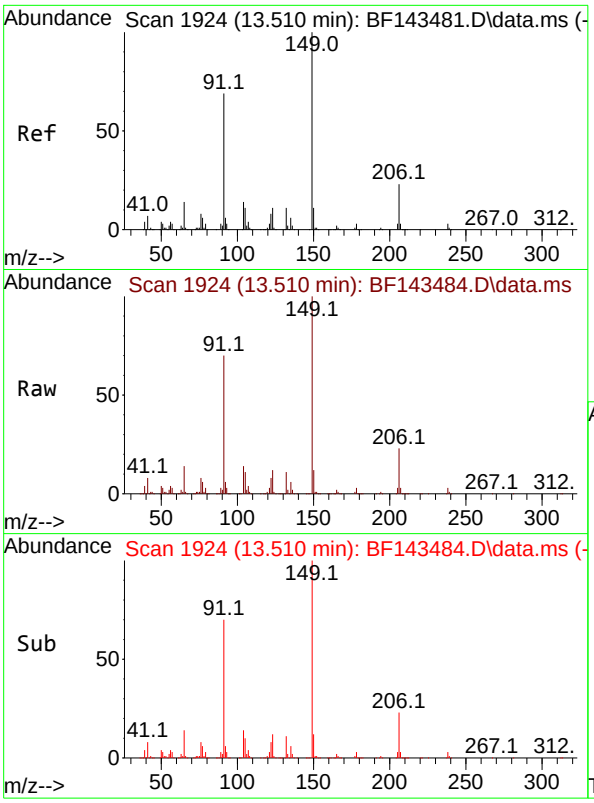


#79
Terphenyl-d14
Concen: 126.204 ng
RT: 13.039 min Scan# 1844
Delta R.T. 0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Tgt Ion:244 Resp: 1808474

Ion	Ratio	Lower	Upper
244	100		
212	6.9	5.2	7.8
122	9.9	7.9	11.9



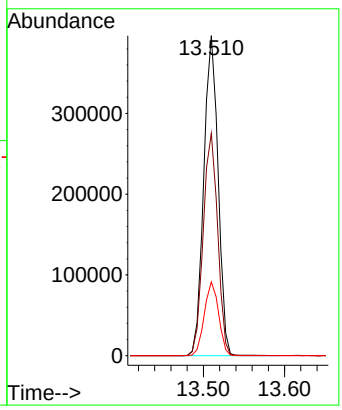


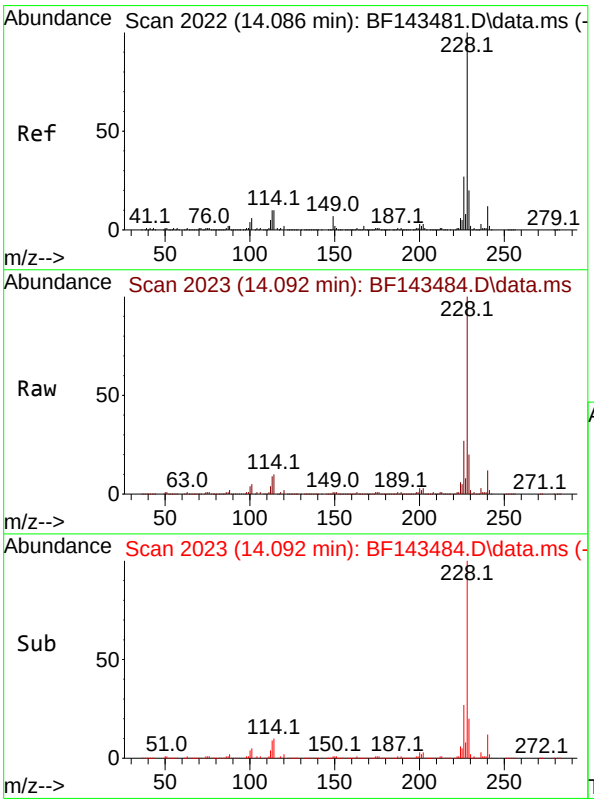
#80
Butylbenzylphthalate
Concen: 86.247 ng
RT: 13.510 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:149 Resp: 484637

Ion	Ratio	Lower	Upper
149	100		
91	69.5	55.3	82.9
206	23.0	18.2	27.4

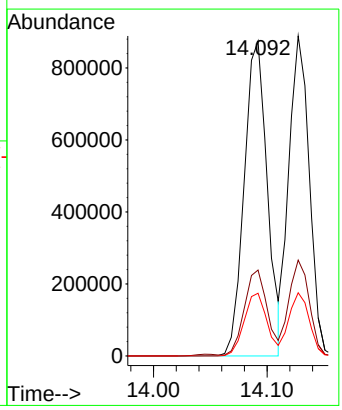


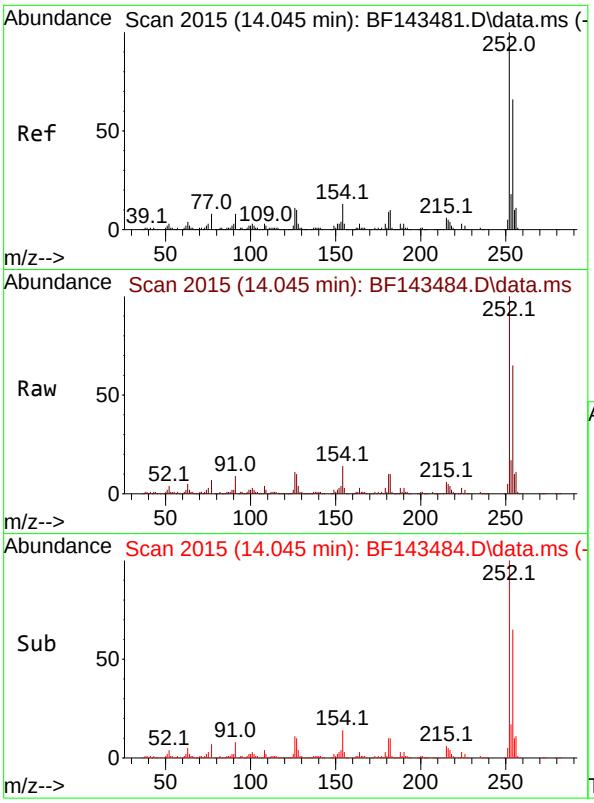


#81
Benzo(a)anthracene
Concen: 76.847 ng
RT: 14.092 min Scan# 2023
Delta R.T. 0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Tgt Ion:228 Resp: 1237164

Ion	Ratio	Lower	Upper
228	100		
226	27.3	21.7	32.5
229	19.9	15.7	23.5



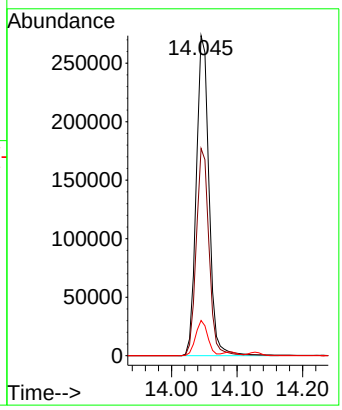


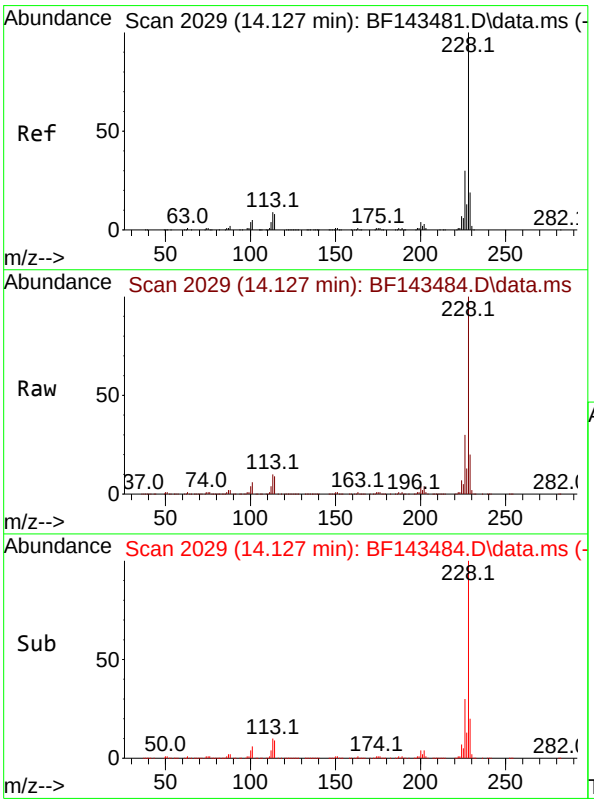
#82
3,3'-Dichlorobenzidine
Concen: 80.290 ng
RT: 14.045 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:252 Resp: 370170

Ion	Ratio	Lower	Upper
252	100		
254	64.7	52.6	79.0
126	11.0	8.7	13.1

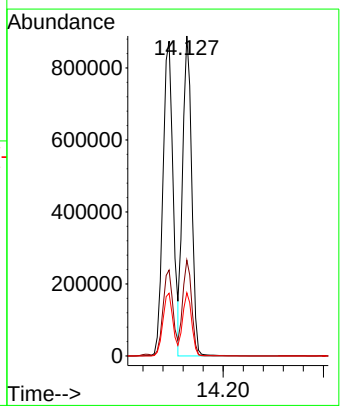


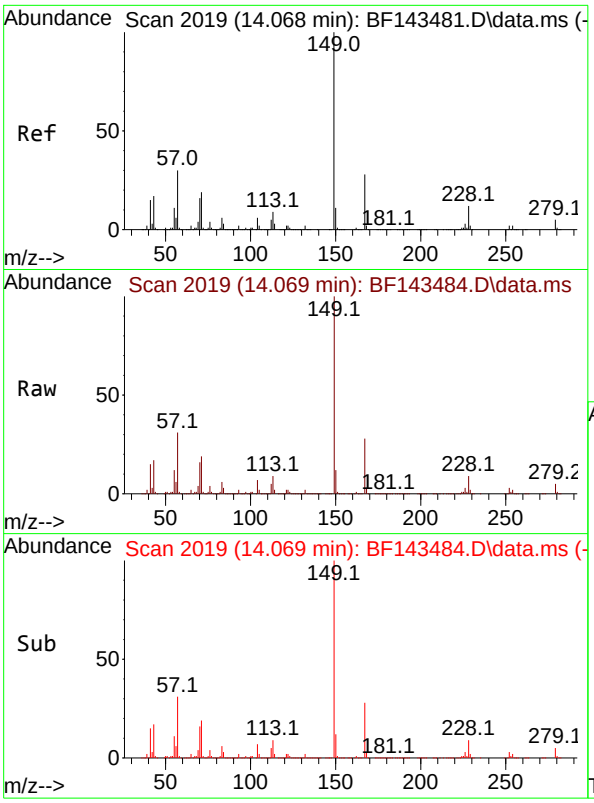


#83
Chrysene
Concen: 77.031 ng
RT: 14.127 min Scan# 2029
Delta R.T. 0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Tgt Ion:228 Resp: 1114466

Ion	Ratio	Lower	Upper
228	100		
226	29.9	23.7	35.5
229	19.8	15.7	23.5



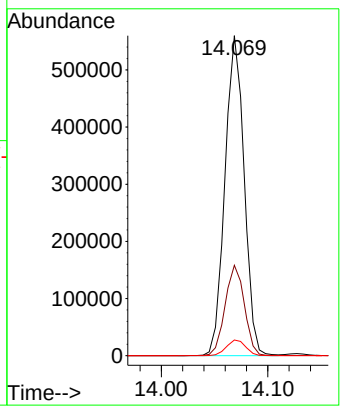


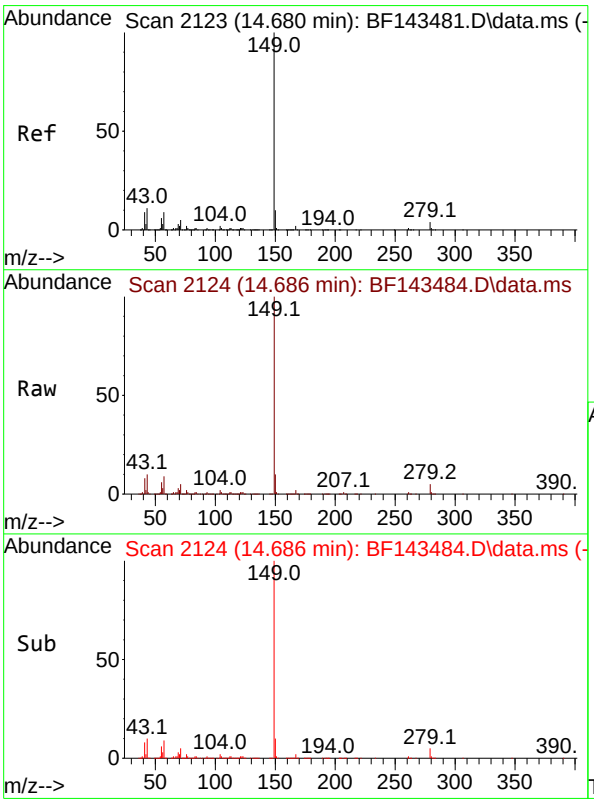
#84
Bis(2-ethylhexyl)phthalate
Concen: 81.836 ng
RT: 14.069 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:149 Resp: 700384

Ion	Ratio	Lower	Upper
149	100		
167	28.3	22.2	33.2
279	4.9	3.6	5.4

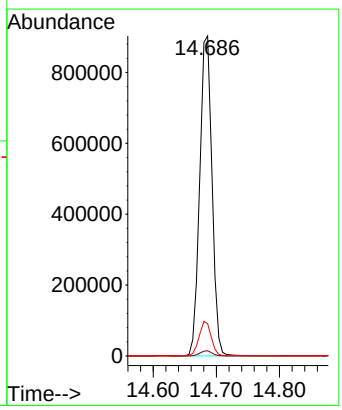


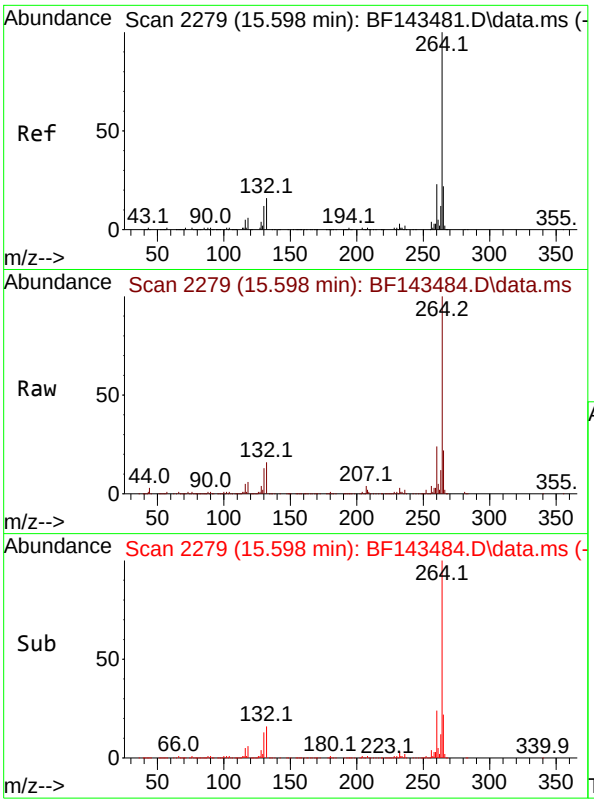


#85
Di-n-octyl phthalate
Concen: 77.442 ng
RT: 14.686 min Scan# 2124
Delta R.T. 0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Tgt Ion:149 Resp: 1227818

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.2	1.8
43	10.6	8.5	12.7



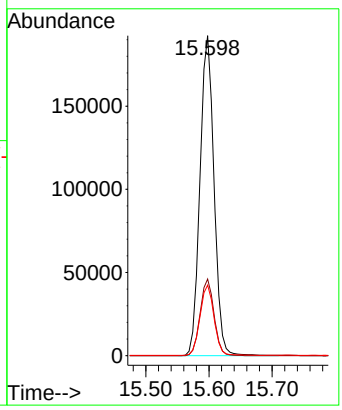


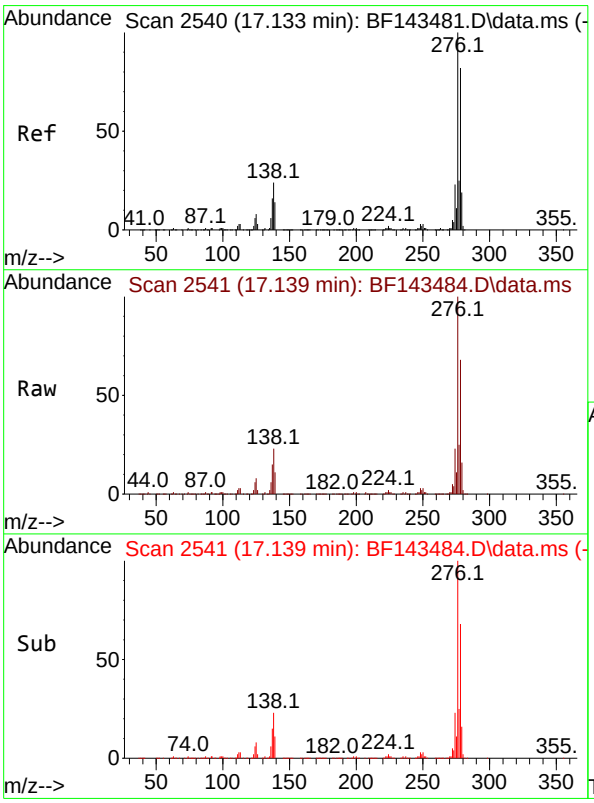
#86
Perylene-d12
Concen: 20.000 ng
RT: 15.598 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:264 Resp: 296923

Ion	Ratio	Lower	Upper
264	100		
260	24.0	18.7	28.1
265	22.1	17.6	26.4

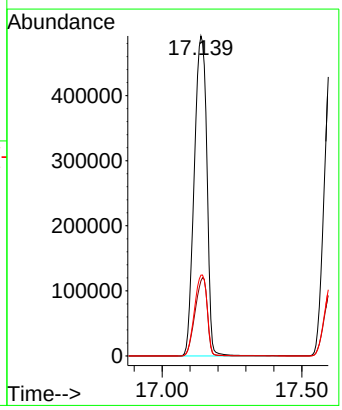


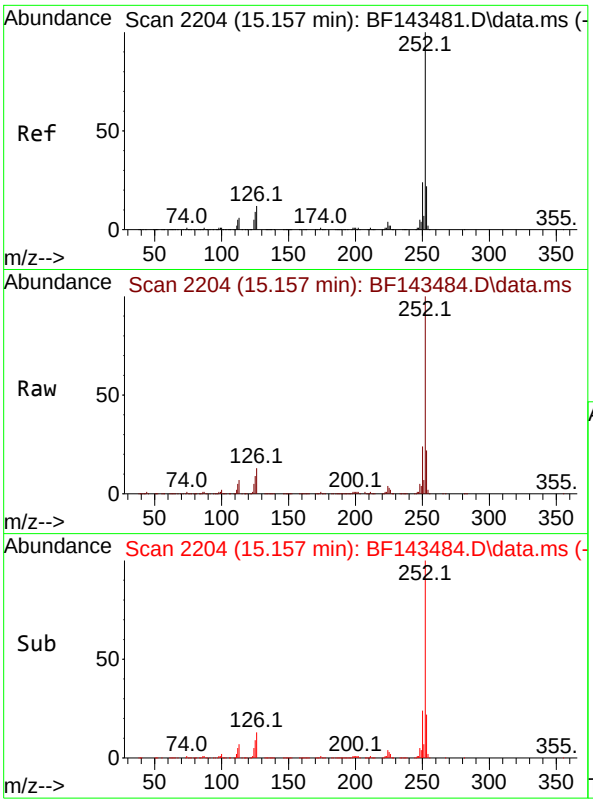


#87
Indeno(1,2,3-cd)pyrene
Concen: 72.108 ng
RT: 17.139 min Scan# 2541
Delta R.T. 0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Tgt Ion:276 Resp: 1538560

Ion	Ratio	Lower	Upper
276	100		
138	23.6	19.2	28.8
277	25.4	20.3	30.5



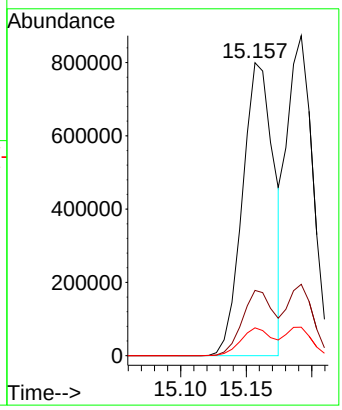


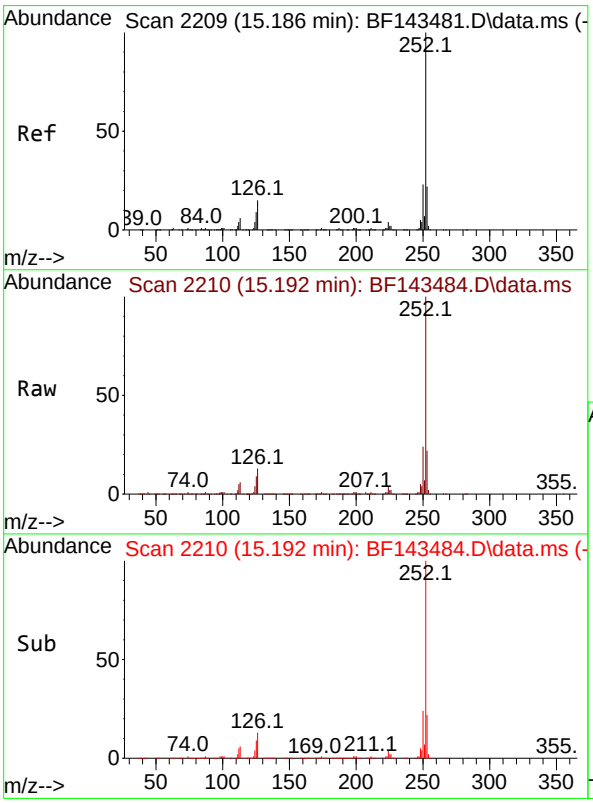
#88
Benzo(b)fluoranthene
Concen: 80.545 ng
RT: 15.157 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:252 Resp: 1329385

Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.5	26.3
125	9.5	7.4	11.0

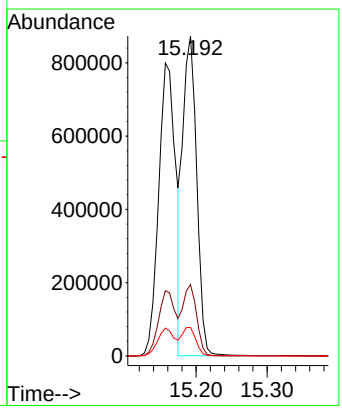


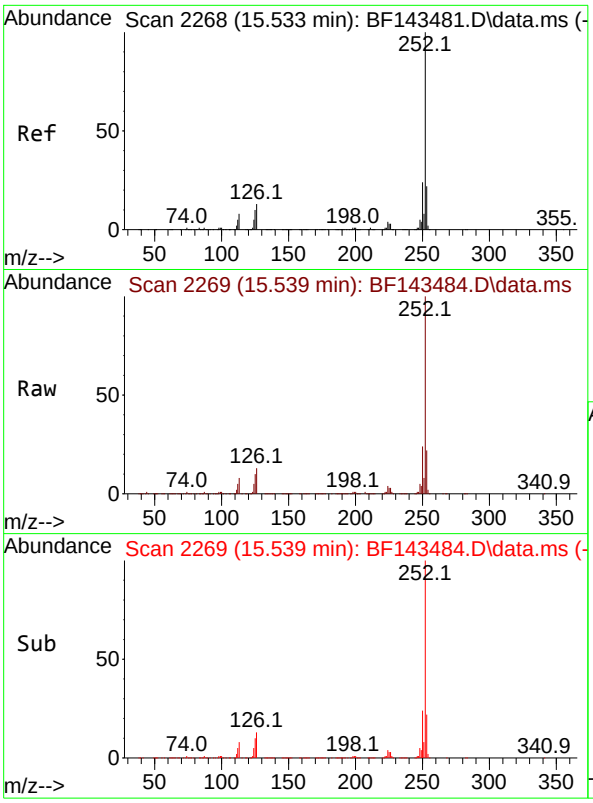


#89
Benzo(k)fluoranthene
Concen: 75.511 ng
RT: 15.192 min Scan# 2210
Delta R.T. 0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Tgt Ion:252 Resp: 1193283

Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.4	26.2
125	8.9	7.4	11.0



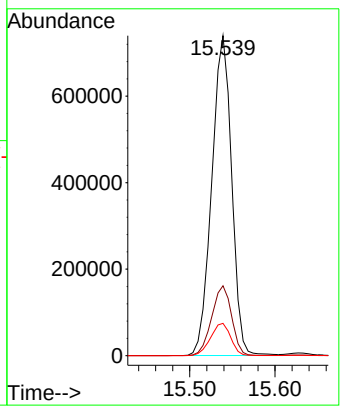


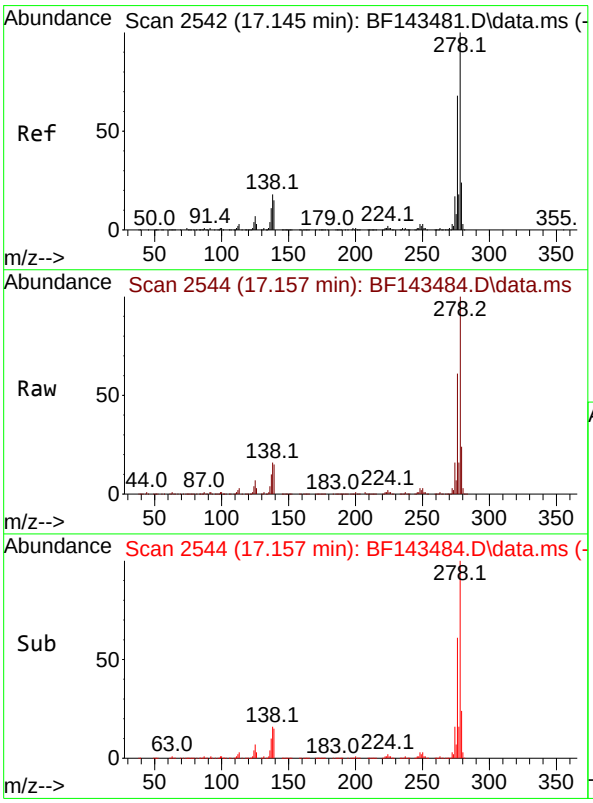
#90
Benzo(a)pyrene
Concen: 78.365 ng
RT: 15.539 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:252 Resp: 1200553

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.4	26.0
125	10.1	8.2	12.2

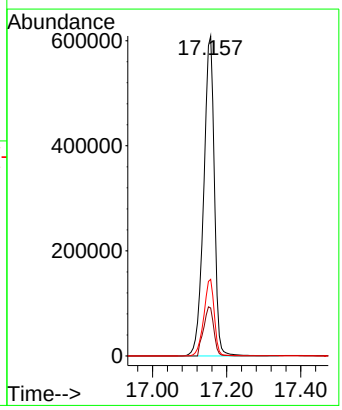


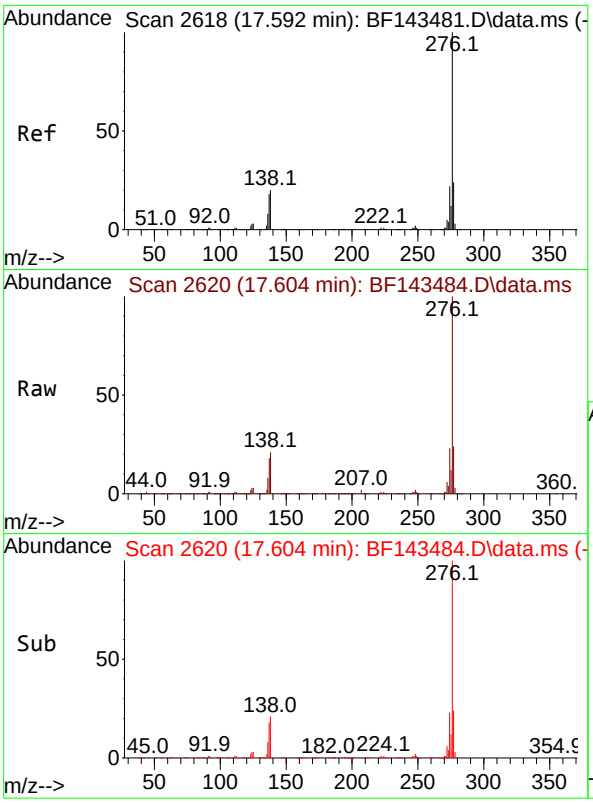


#91
Dibenzo(a,h)anthracene
Concen: 71.099 ng
RT: 17.157 min Scan# 2544
Delta R.T. 0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Tgt Ion:278 Resp: 1214959

Ion	Ratio	Lower	Upper
278	100		
139	15.0	12.1	18.1
279	24.0	19.2	28.8



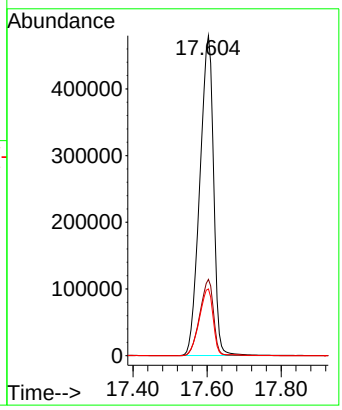


#92
Benzo(g,h,i)perylene
Concen: 72.598 ng
RT: 17.604 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF143484.D
Acq: 20 Aug 2025 14:20

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:276 Resp: 1233571

Ion	Ratio	Lower	Upper
276	100		
277	23.9	18.9	28.3
138	20.9	16.3	24.5



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082025\
Data File : BF143485.D
Acq On : 20 Aug 2025 15:16
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF082025

Quant Time: Aug 20 16:24:07 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 20 15:07:46 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.928	152	147483	20.000	ng	0.00
21) Naphthalene-d8	8.210	136	560799	20.000	ng	0.00
39) Acenaphthene-d10	9.969	164	307376	20.000	ng	0.00
64) Phenanthrene-d10	11.457	188	481864	20.000	ng	0.00
76) Chrysene-d12	14.098	240	290808	20.000	ng	0.00
86) Perylene-d12	15.598	264	304631	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.557	112	673963	79.796	ng	0.00
7) Phenol-d6	6.563	99	826142	79.236	ng	-0.01
23) Nitrobenzene-d5	7.492	82	774657	80.608	ng	0.00
42) 2,4,6-Tribromophenol	10.757	330	231053	80.753	ng	0.00
45) 2-Fluorobiphenyl	9.286	172	1418903	76.290	ng	0.00
79) Terphenyl-d14	13.039	244	1278285	76.705	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.740	88	153305	39.182	ng	99
3) Pyridine	3.516	79	420783	40.378	ng	100
4) n-Nitrosodimethylamine	3.457	42	191147	40.802	ng	96
6) Aniline	6.592	93	563974	40.468	ng	98
8) 2-Chlorophenol	6.716	128	375251	40.225	ng	99
9) Benzaldehyde	6.481	77	357456	42.346	ng	100
10) Phenol	6.581	94	487495	40.587	ng	98
11) bis(2-Chloroethyl)ether	6.657	93	359124	40.011	ng	99
12) 1,3-Dichlorobenzene	6.869	146	416344	39.721	ng	99
13) 1,4-Dichlorobenzene	6.945	146	414739	39.445	ng	99
14) 1,2-Dichlorobenzene	7.098	146	395851	39.765	ng	100
15) Benzyl Alcohol	7.069	79	321497	41.185	ng	100
16) 2,2'-oxybis(1-Chloropr...	7.198	45	574948	40.039	ng	99
17) 2-Methylphenol	7.181	107	304639	40.687	ng	96
18) Hexachloroethane	7.439	117	145111	40.592	ng	99
19) n-Nitroso-di-n-propyla...	7.339	70	252025	39.547	ng	99
20) 3+4-Methylphenols	7.334	107	362521	40.559	ng	99
22) Acetophenone	7.334	105	472388	38.990	ng	99
24) Nitrobenzene	7.510	77	401365	40.579	ng	99
25) Isophorone	7.751	82	710700	40.343	ng	98
26) 2-Nitrophenol	7.828	139	202267	41.747	ng	99
27) 2,4-Dimethylphenol	7.863	122	299505	39.655	ng	98
28) bis(2-Chloroethoxy)met...	7.951	93	435322	40.210	ng	100
29) 2,4-Dichlorophenol	8.069	162	324407	40.217	ng	97
30) 1,2,4-Trichlorobenzene	8.151	180	326797	39.404	ng	99
31) Naphthalene	8.233	128	1050936	39.033	ng	100
32) Benzoic acid	7.986	122	174224	41.489	ng	98
33) 4-Chloroaniline	8.281	127	384473	40.234	ng	100
34) Hexachlorobutadiene	8.351	225	213848	39.523	ng	99
35) Caprolactam	8.651	113	86788	44.838	ng	95
36) 4-Chloro-3-methylphenol	8.763	107	327951	40.569	ng	99
37) 2-Methylnaphthalene	8.922	142	699087	38.877	ng	99
38) 1-Methylnaphthalene	9.022	142	675310	39.260	ng	99
40) 1,2,4,5-Tetrachloroben...	9.092	216	341006	38.786	ng	99
41) Hexachlorocyclopentadiene	9.080	237	123767	39.756	ng	100
43) 2,4,6-Trichlorophenol	9.204	196	222378	41.105	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082025\
Data File : BF143485.D
Acq On : 20 Aug 2025 15:16
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF082025

Quant Time: Aug 20 16:24:07 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 20 15:07:46 2025
Response via : Initial Calibration

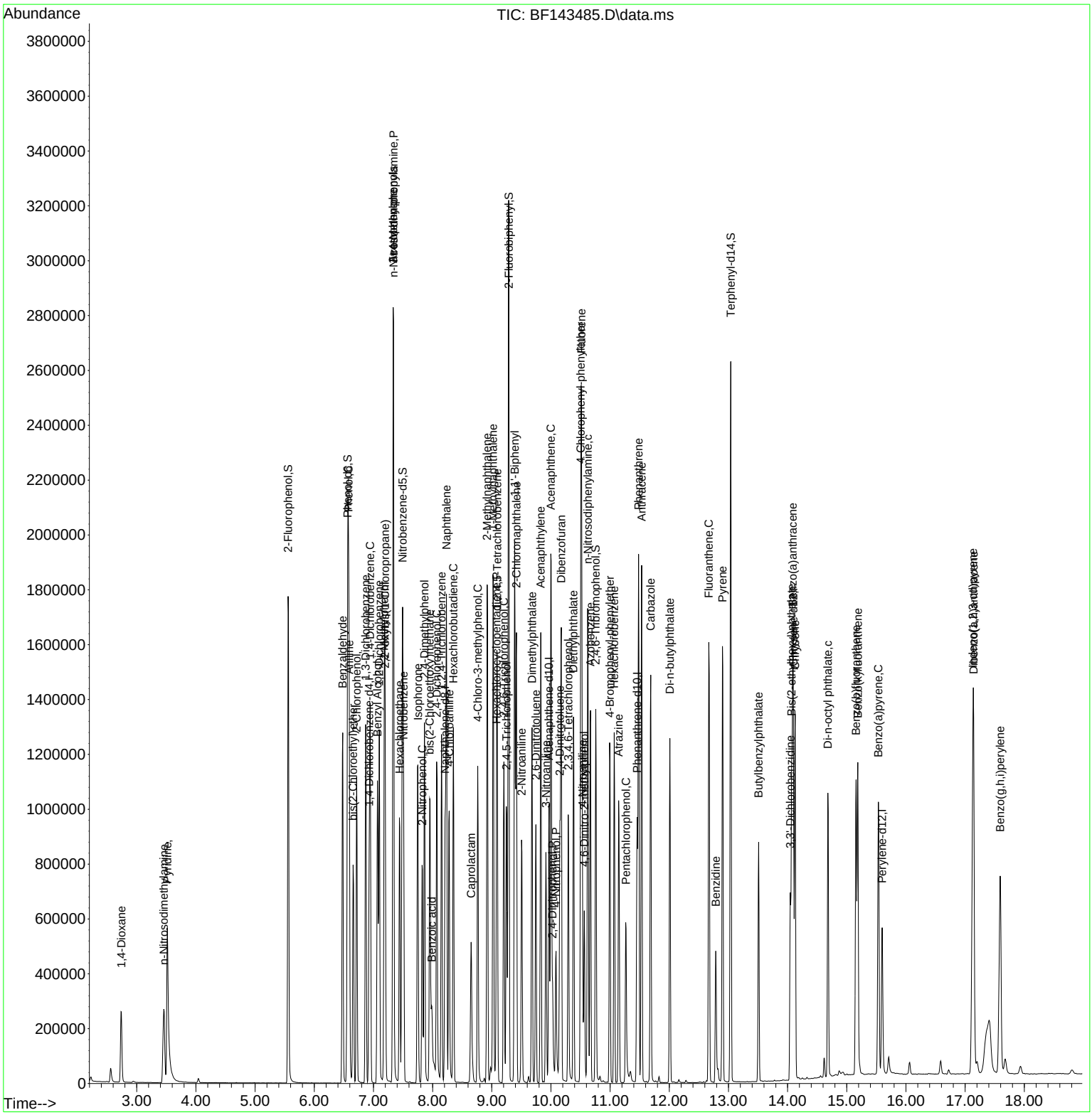
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.251	196	231521	39.178	ng	98
46) 1,1'-Biphenyl	9.386	154	850787	38.997	ng	100
47) 2-Chloronaphthalene	9.416	162	668760	39.068	ng	99
48) 2-Nitroaniline	9.504	65	209716	41.861	ng	99
49) Acenaphthylene	9.827	152	969574	39.557	ng	99
50) Dimethylphthalate	9.680	163	757804	40.935	ng	100
51) 2,6-Dinitrotoluene	9.745	165	162905	42.459	ng	98
52) Acenaphthene	9.998	154	664685	39.941	ng	100
53) 3-Nitroaniline	9.916	138	176223	42.506	ng	98
54) 2,4-Dinitrophenol	10.027	184	84522	43.761	ng	99
55) Dibenzofuran	10.175	168	925864	39.023	ng	99
56) 4-Nitrophenol	10.086	139	114429	46.387	ng	99
57) 2,4-Dinitrotoluene	10.151	165	221231	43.183	ng	97
58) Fluorene	10.516	166	710368	38.901	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.292	232	187764	42.767	ng	100
60) Diethylphthalate	10.380	149	692256	41.708	ng	100
61) 4-Chlorophenyl-phenyle...	10.504	204	358628	39.269	ng	99
62) 4-Nitroaniline	10.533	138	167278	43.927	ng	99
63) Azobenzene	10.669	77	688082	39.982	ng	99
65) 4,6-Dinitro-2-methylph...	10.563	198	119136	43.849	ng	97
66) n-Nitrosodiphenylamine	10.622	169	608072	39.212	ng	99
67) 4-Bromophenyl-phenylether	10.998	248	231727	40.305	ng	99
68) Hexachlorobenzene	11.069	284	245068	39.544	ng	98
69) Atrazine	11.145	200	174902	43.693	ng	99
70) Pentachlorophenol	11.269	266	124649	43.916	ng	99
71) Phenanthrene	11.480	178	1012486	39.237	ng	100
72) Anthracene	11.533	178	1029696	39.390	ng	100
73) Carbazole	11.686	167	865651	40.413	ng	100
74) Di-n-butylphthalate	12.010	149	869364	43.507	ng	99
75) Fluoranthene	12.668	202	932217	40.261	ng	100
77) Benzidine	12.786	184	283076	39.962	ng	99
78) Pyrene	12.898	202	930449	38.897	ng	100
80) Butylbenzylphthalate	13.510	149	271515	41.549	ng	99
81) Benzo(a)anthracene	14.086	228	763549	40.783	ng	100
82) 3,3'-Dichlorobenzidine	14.045	252	208975	38.975	ng	99
83) Chrysene	14.127	228	651325	38.711	ng	99
84) Bis(2-ethylhexyl)phtha...	14.068	149	388068	38.990	ng	99
85) Di-n-octyl phthalate	14.680	149	700201	37.975	ng	100
87) Indeno(1,2,3-cd)pyrene	17.133	276	859881	39.281	ng	99
88) Benzo(b)fluoranthene	15.157	252	667733	39.433	ng	100
89) Benzo(k)fluoranthene	15.186	252	664593	40.992	ng	100
90) Benzo(a)pyrene	15.533	252	631989	40.208	ng	99
91) Dibenzo(a,h)anthracene	17.145	278	690364	39.378	ng	99
92) Benzo(g,h,i)perylene	17.592	276	697169	39.992	ng	100

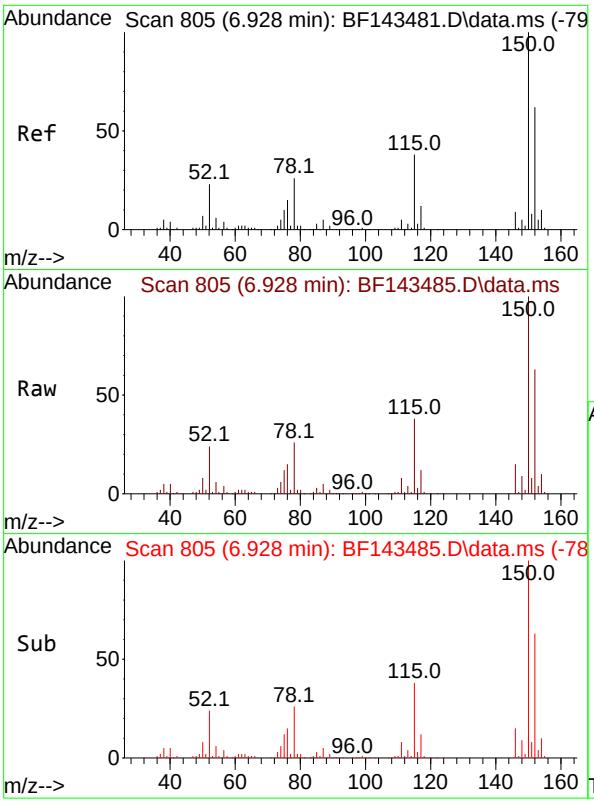
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082025\
Data File : BF143485.D
Acq On : 20 Aug 2025 15:16
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF082025

Quant Time: Aug 20 16:24:07 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 20 15:07:46 2025
Response via : Initial Calibration



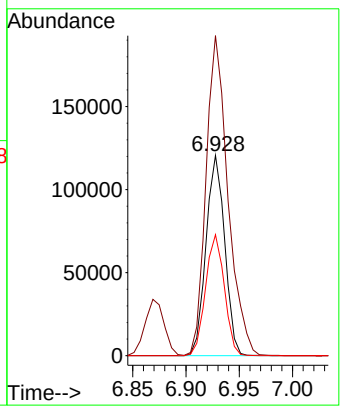


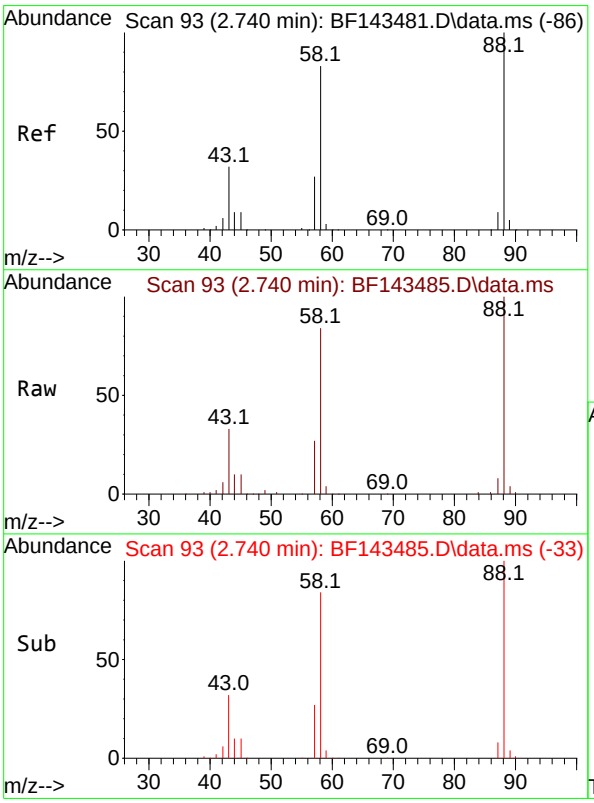
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.928 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Instrument :
BNA_F
ClientSampleId :
ICVBF082025

Tgt Ion:152 Resp: 147483

Ion	Ratio	Lower	Upper
152	100		
150	159.8	128.9	193.3
115	60.4	49.2	73.8

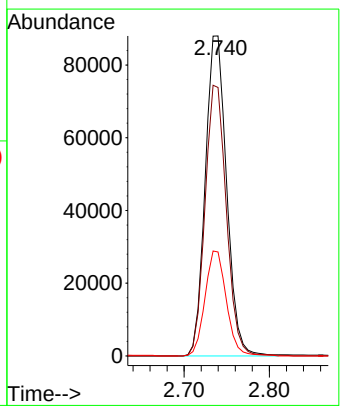


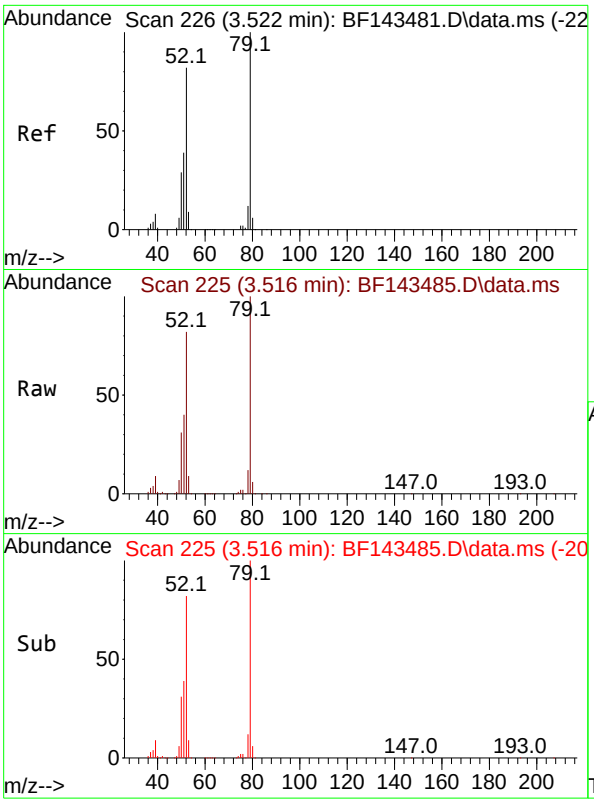


#2
1,4-Dioxane
Concen: 39.182 ng
RT: 2.740 min Scan# 93
Delta R.T. 0.006 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Tgt Ion: 88 Resp: 153305

Ion	Ratio	Lower	Upper
88	100		
58	84.6	66.7	100.1
43	32.8	25.8	38.8



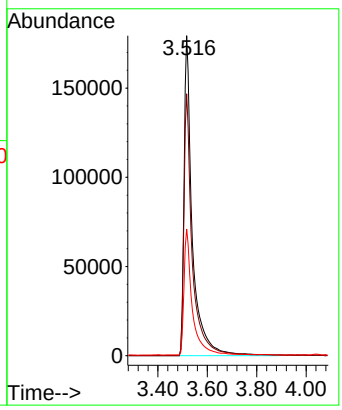


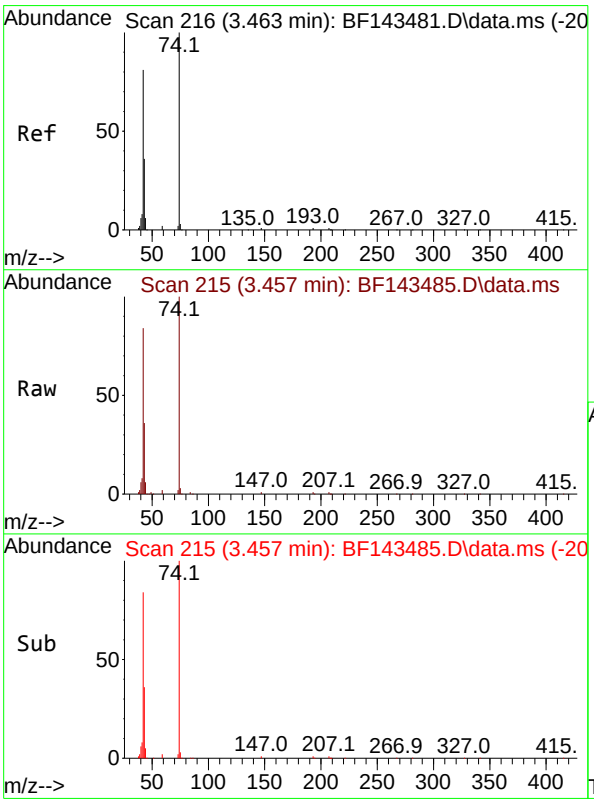
#3
Pyridine
Concen: 40.378 ng
RT: 3.516 min Scan# 21
Delta R.T. -0.000 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Instrument :
BNA_F
ClientSampleId :
ICVBF082025

Tgt Ion: 79 Resp: 420783

Ion	Ratio	Lower	Upper
79	100		
52	81.9	65.6	98.4
51	39.6	31.2	46.8

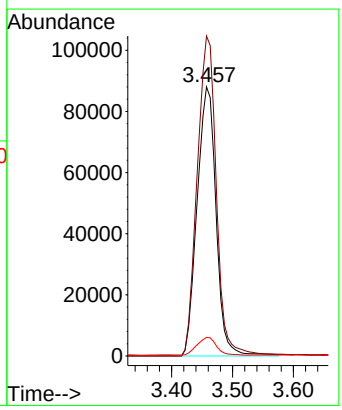


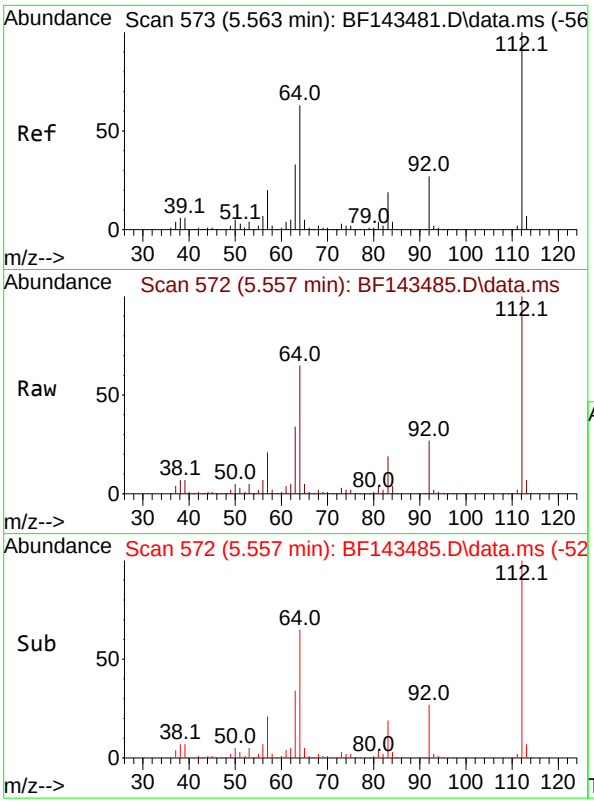


#4
n-Nitrosodimethylamine
Concen: 40.802 ng
RT: 3.457 min Scan# 215
Delta R.T. -0.018 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Tgt Ion: 42 Resp: 191147

Ion	Ratio	Lower	Upper
42	100		
74	118.9	98.6	148.0
44	6.9	5.8	8.8



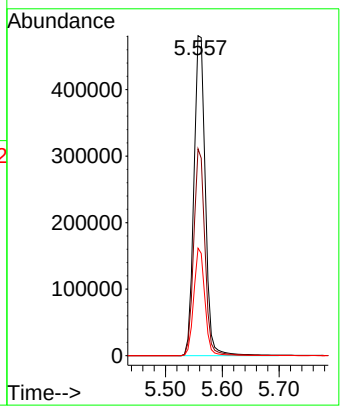


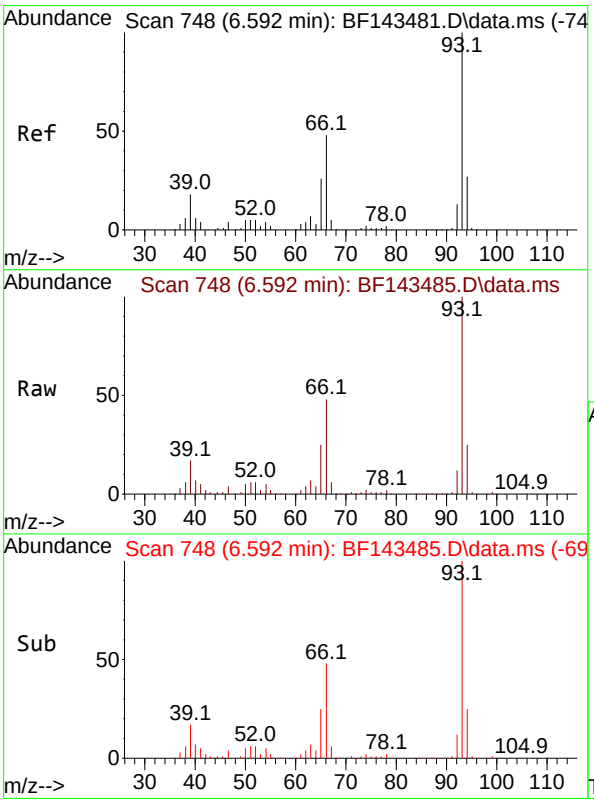
#5
2-Fluorophenol
Concen: 79.796 ng
RT: 5.557 min Scan# 5
Delta R.T. -0.006 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Instrument :
BNA_F
ClientSampleId :
ICVBF082025

Tgt Ion:112 Resp: 673963

Ion	Ratio	Lower	Upper
112	100		
64	64.6	50.4	75.6
63	33.6	26.4	39.6

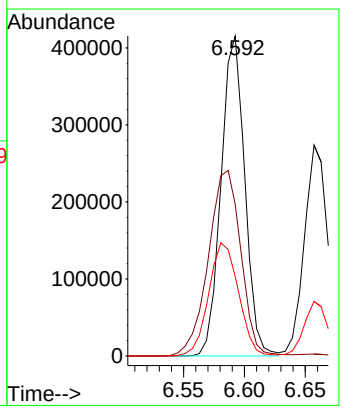


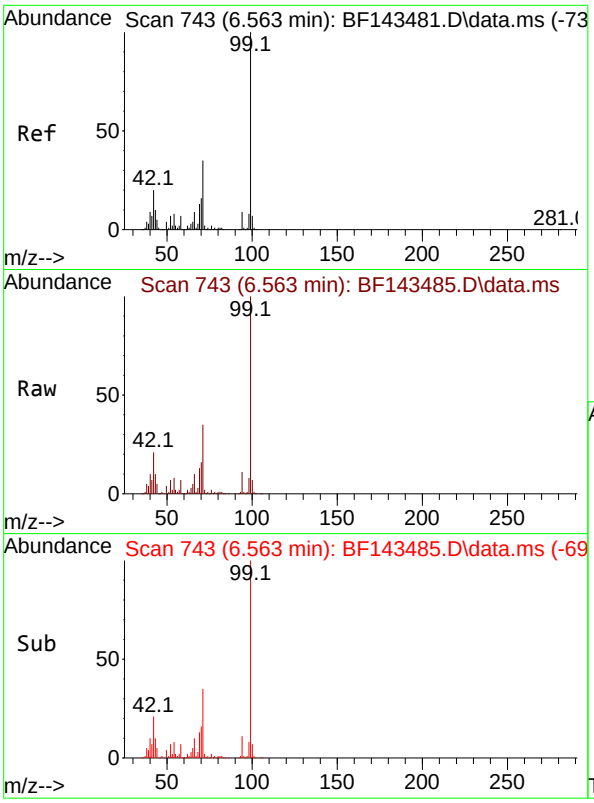


#6
Aniline
Concen: 40.468 ng
RT: 6.592 min Scan# 748
Delta R.T. -0.000 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Tgt Ion: 93 Resp: 563974

Ion	Ratio	Lower	Upper
93	100		
66	47.5	38.9	58.3
65	24.9	20.6	30.8



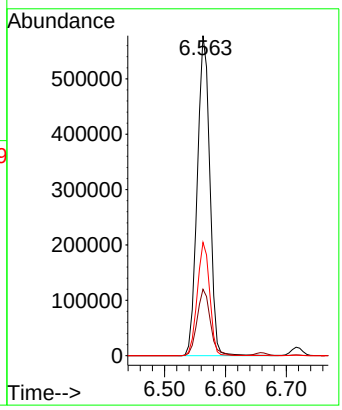


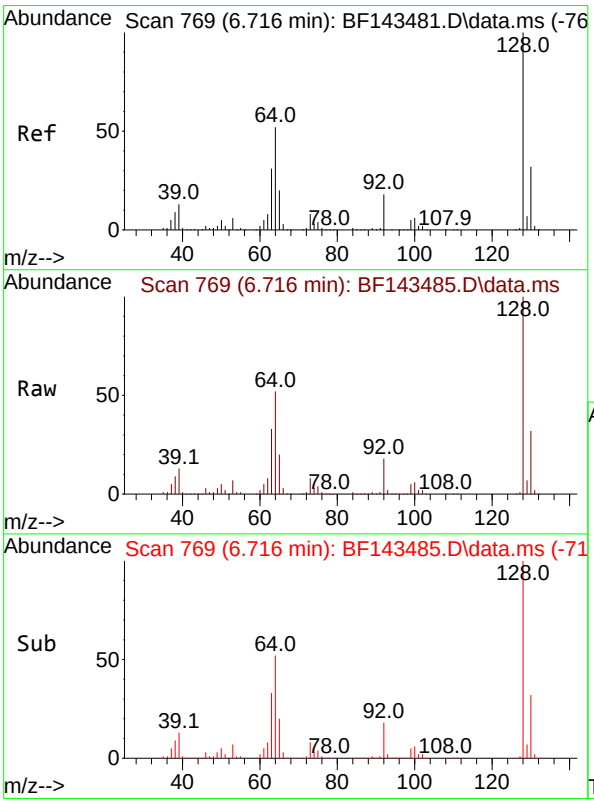
#7
Phenol-d6
Concen: 79.236 ng
RT: 6.563 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Instrument :
BNA_F
ClientSampleId :
ICVBF082025

Tgt Ion: 99 Resp: 826142

Ion	Ratio	Lower	Upper
99	100		
42	20.8	16.3	24.5
71	35.4	28.2	42.2

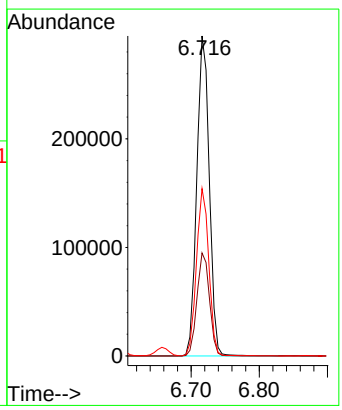


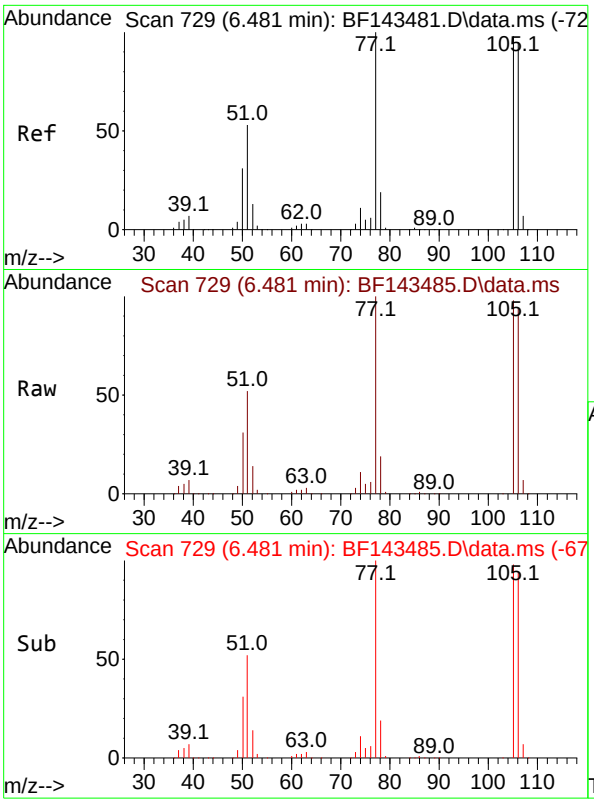


#8
2-Chlorophenol
Concen: 40.225 ng
RT: 6.716 min Scan# 769
Delta R.T. -0.006 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Tgt Ion:128 Resp: 375251

Ion	Ratio	Lower	Upper
128	100		
130	32.2	12.4	52.4
64	52.3	31.6	71.6



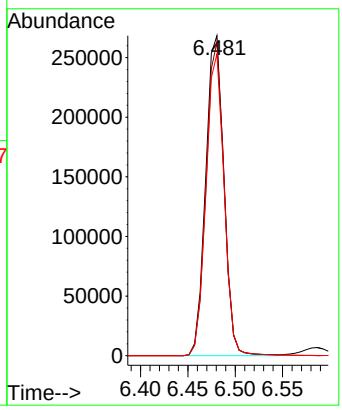


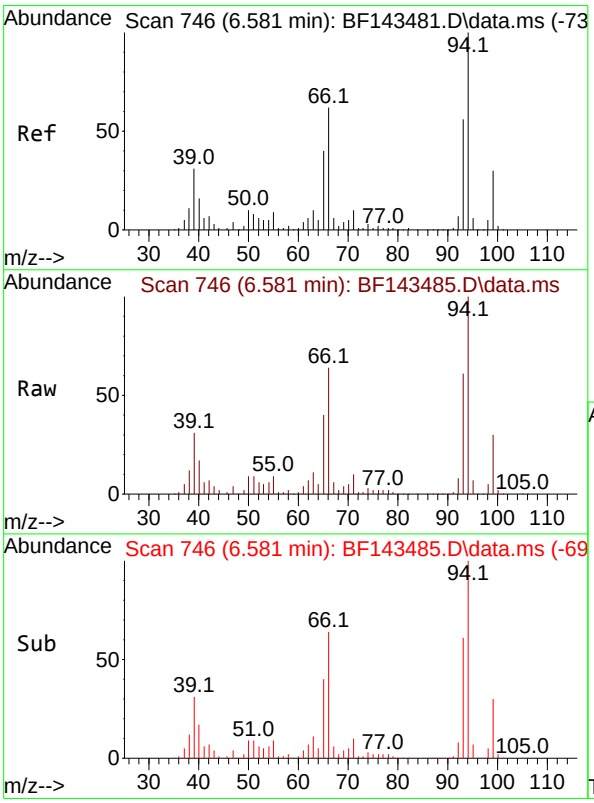
#9
Benzaldehyde
Concen: 42.346 ng
RT: 6.481 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Instrument :
BNA_F
ClientSampleId :
ICVBF082025

Tgt Ion: 77 Resp: 357456

Ion	Ratio	Lower	Upper
77	100		
105	97.9	78.1	118.1
106	94.3	74.9	114.9

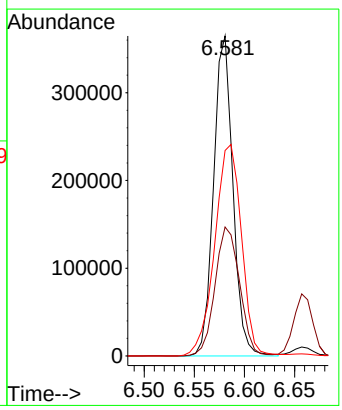


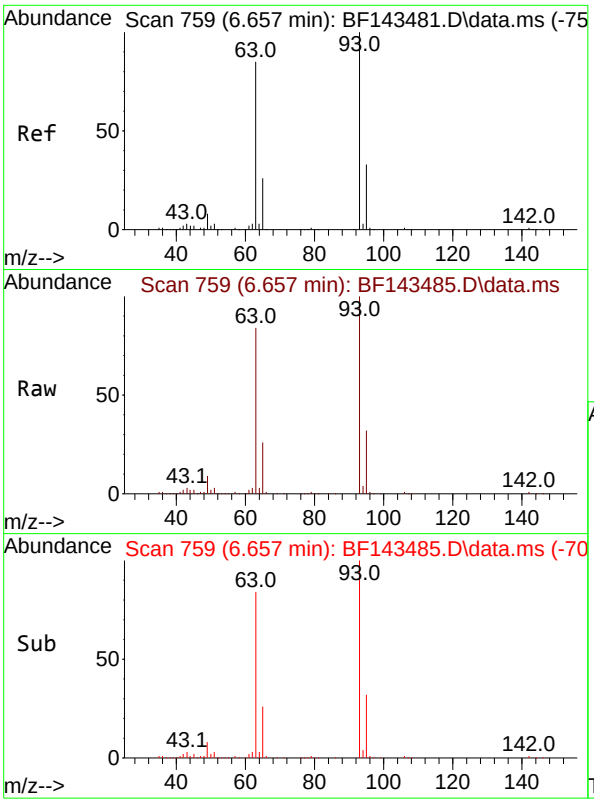


#10
Phenol
Concen: 40.587 ng
RT: 6.581 min Scan# 746
Delta R.T. -0.006 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Tgt Ion: 94 Resp: 487495

Ion	Ratio	Lower	Upper
94	100		
65	40.3	19.5	59.5
66	64.2	42.5	82.5



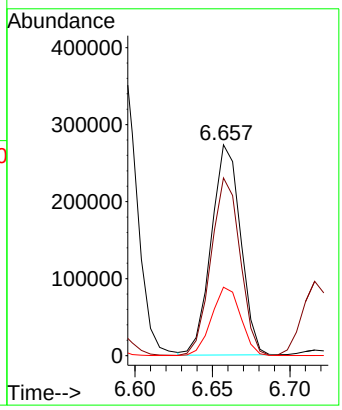


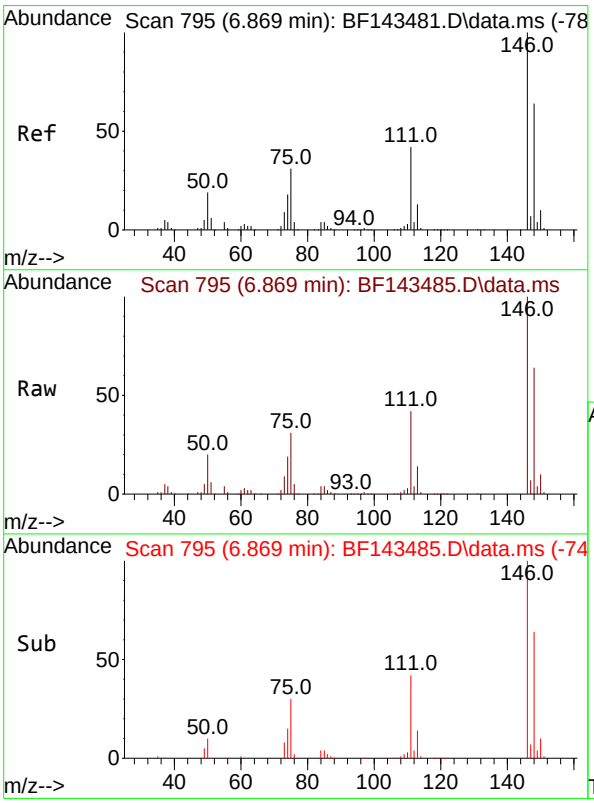
#11
bis(2-Chloroethyl)ether
Concen: 40.011 ng
RT: 6.657 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Instrument :
BNA_F
ClientSampleId :
ICVBF082025

Tgt Ion: 93 Resp: 359124

Ion	Ratio	Lower	Upper
93	100		
63	84.4	63.6	103.6
95	32.5	12.8	52.8

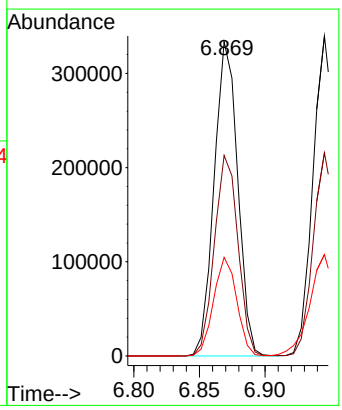


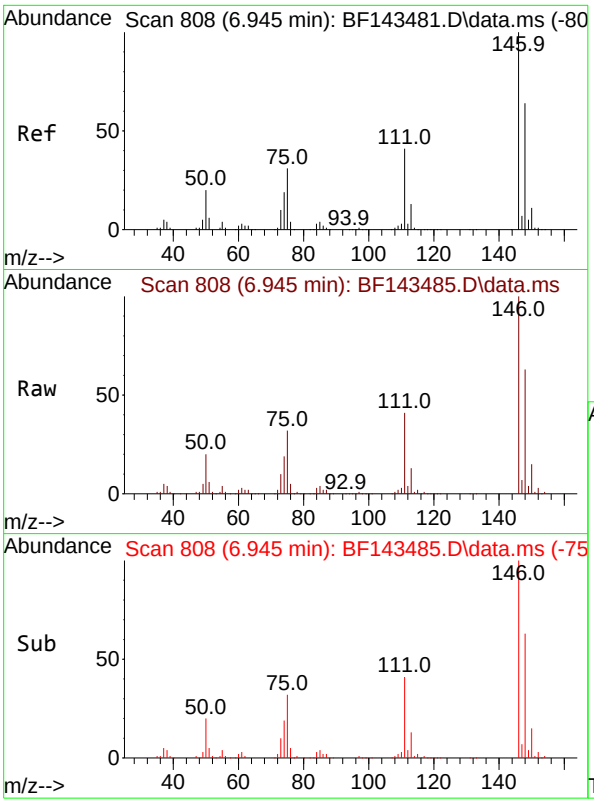


#12
1,3-Dichlorobenzene
Concen: 39.721 ng
RT: 6.869 min Scan# 795
Delta R.T. -0.006 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Tgt Ion:146 Resp: 416344

Ion	Ratio	Lower	Upper
146	100		
148	63.8	51.3	76.9
75	31.4	24.7	37.1



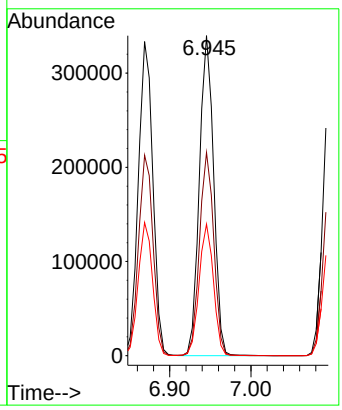


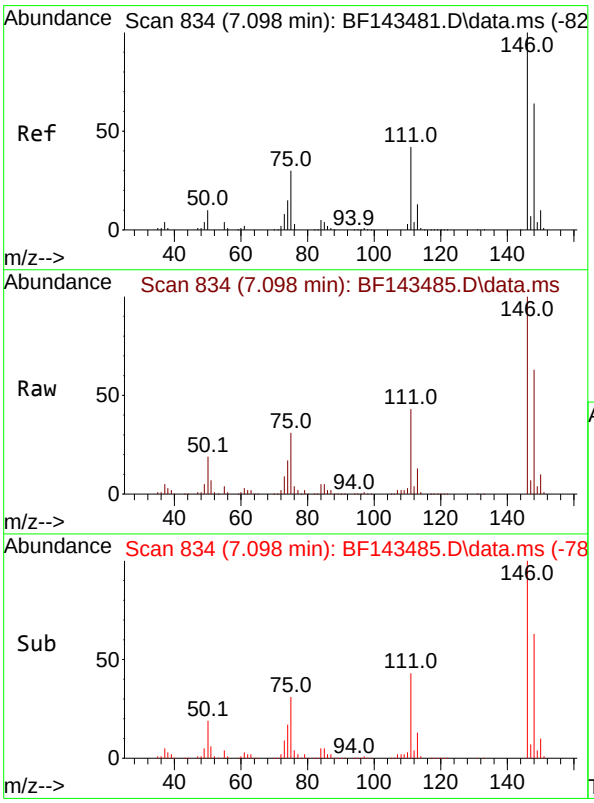
#13
1,4-Dichlorobenzene
Concen: 39.445 ng
RT: 6.945 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Instrument :
BNA_F
ClientSampleId :
ICVBF082025

Tgt Ion:146 Resp: 414739

Ion	Ratio	Lower	Upper
146	100		
148	63.5	51.5	77.3
111	41.1	32.6	49.0

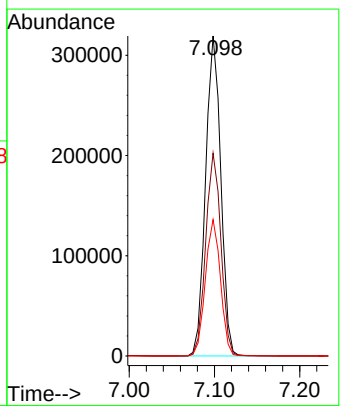


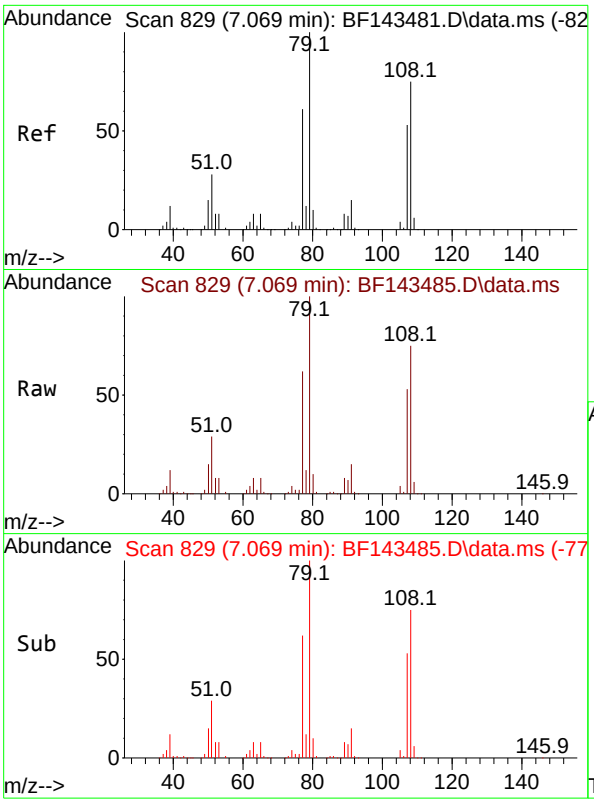


#14
1,2-Dichlorobenzene
Concen: 39.765 ng
RT: 7.098 min Scan# 834
Delta R.T. -0.000 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Tgt Ion:146 Resp: 395851

Ion	Ratio	Lower	Upper
146	100		
148	63.4	51.0	76.6
111	42.6	34.0	51.0



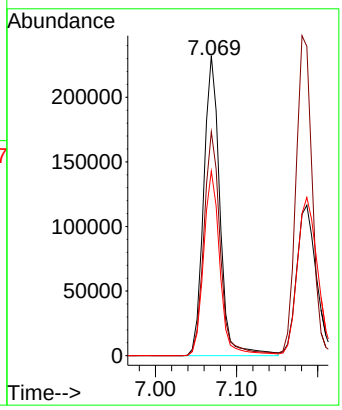


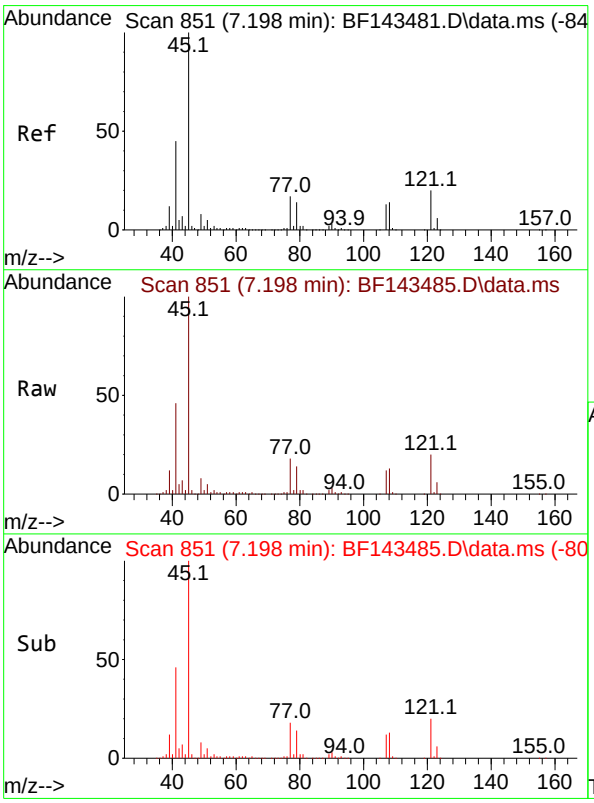
#15
Benzyl Alcohol
Concen: 41.185 ng
RT: 7.069 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Instrument :
BNA_F
ClientSampleId :
ICVBF082025

Tgt Ion: 79 Resp: 321497

Ion	Ratio	Lower	Upper
79	100		
108	74.6	59.8	89.6
77	61.6	49.0	73.4

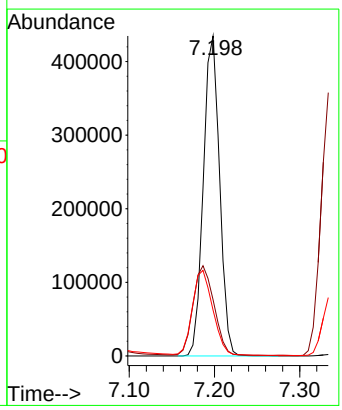


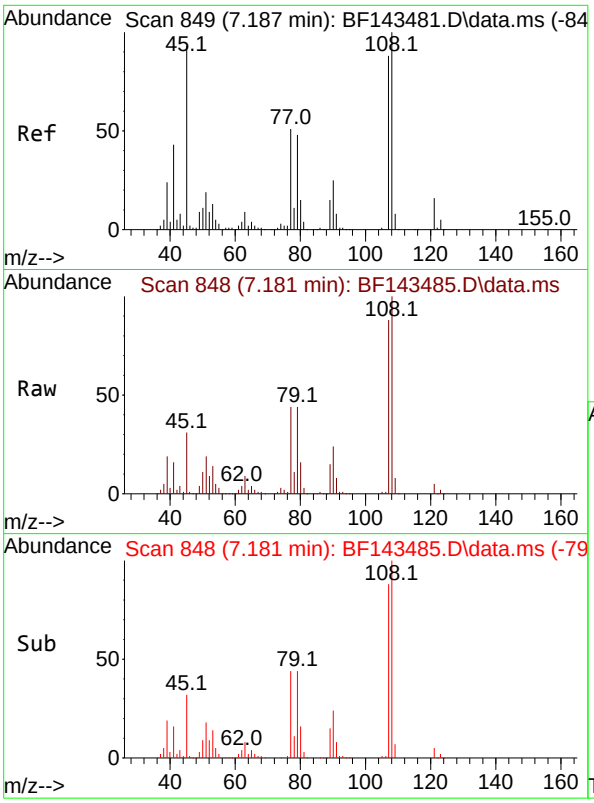


#16
2,2'-oxybis(1-Chloropropane)
Concen: 40.039 ng
RT: 7.198 min Scan# 851
Delta R.T. -0.000 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Tgt Ion: 45 Resp: 574948

Ion	Ratio	Lower	Upper
45	100		
77	17.6	0.0	37.9
79	14.3	0.0	34.7



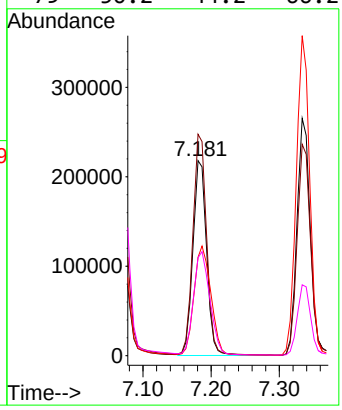


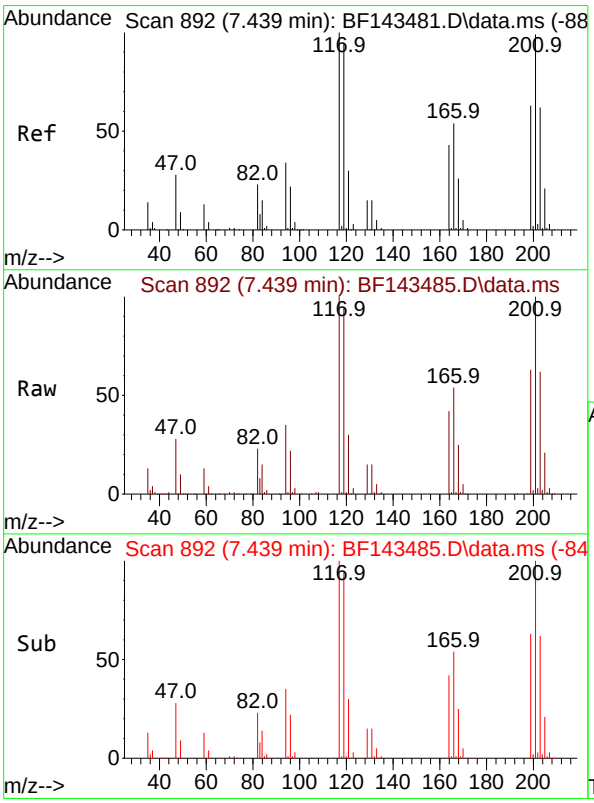
#17
2-Methylphenol
Concen: 40.687 ng
RT: 7.181 min Scan# 84
Delta R.T. -0.006 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Instrument :
BNA_F
ClientSampleId :
ICVBF082025

Tgt Ion:107 Resp: 304639

Ion	Ratio	Lower	Upper
107	100		
108	113.6	91.1	136.7
77	50.5	46.2	69.4
79	50.2	44.2	66.2

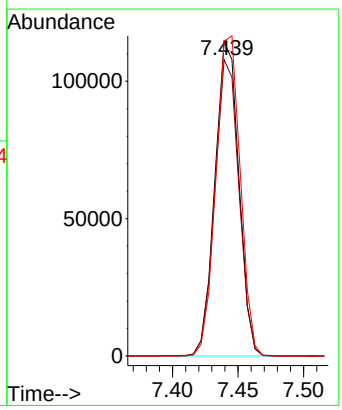


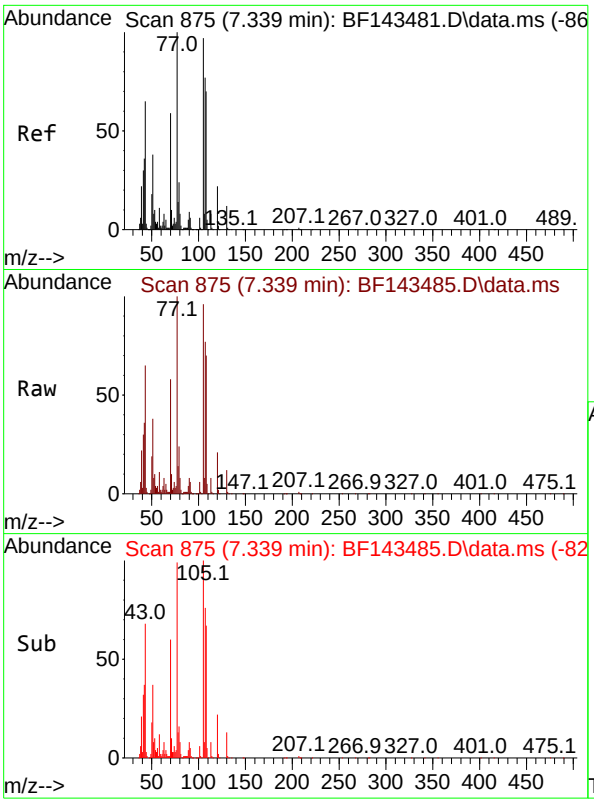


#18
Hexachloroethane
Concen: 40.592 ng
RT: 7.439 min Scan# 892
Delta R.T. -0.006 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Tgt Ion:117 Resp: 145111

Ion	Ratio	Lower	Upper
117	100		
119	94.2	75.4	113.0
201	100.1	79.0	118.4



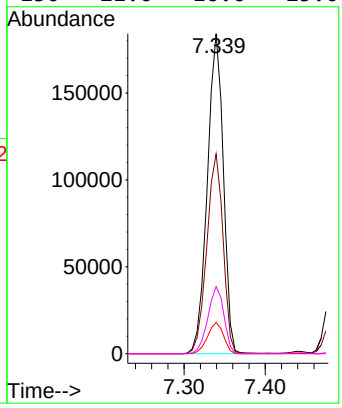


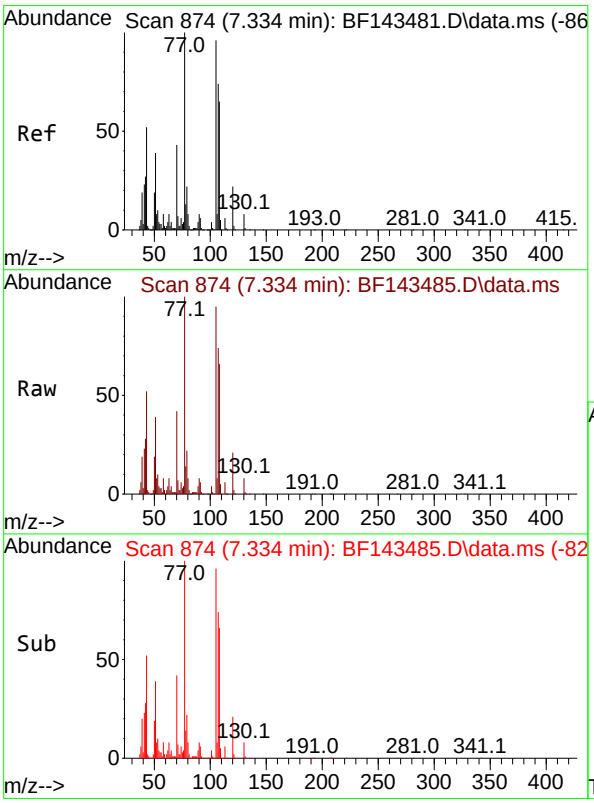
#19
n-Nitroso-di-n-propylamine
Concen: 39.547 ng
RT: 7.339 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Instrument :
BNA_F
ClientSampleId :
ICVBF082025

Tgt Ion: 70 Resp: 252025

Ion	Ratio	Lower	Upper
70	100		
42	62.4	49.3	73.9
101	9.8	7.8	11.8
130	21.0	16.6	25.0

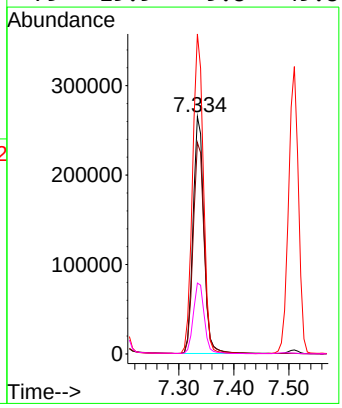


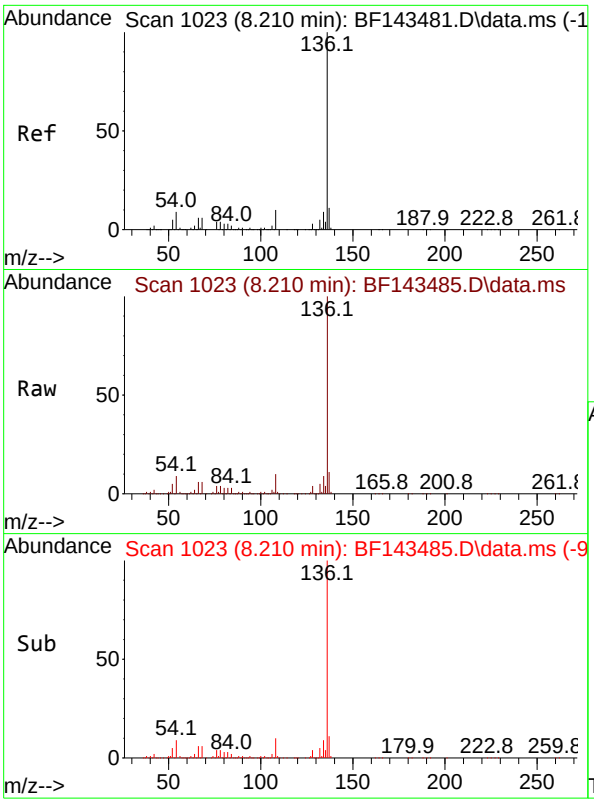


#20
3+4-Methylphenols
Concen: 40.559 ng
RT: 7.334 min Scan# 874
Delta R.T. -0.006 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Tgt Ion:107 Resp: 362521

Ion	Ratio	Lower	Upper
107	100		
108	89.0	68.4	108.4
77	134.8	116.1	156.1
79	29.9	9.8	49.8



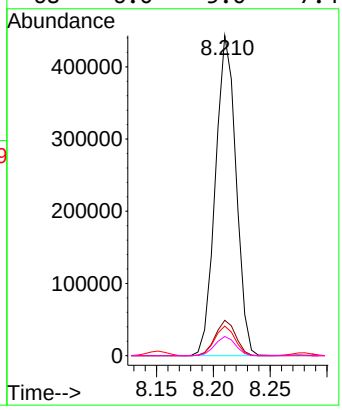


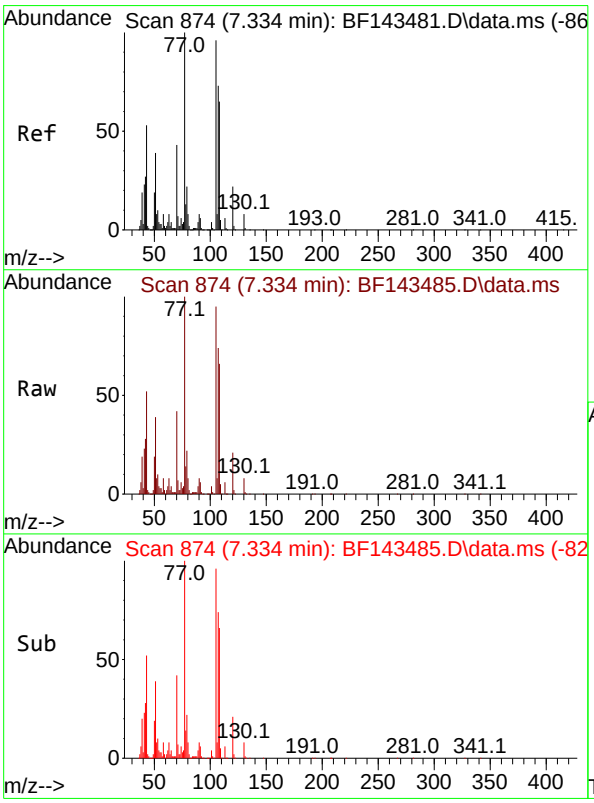
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.210 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Instrument :
BNA_F
ClientSampleId :
ICVBF082025

Tgt Ion:136 Resp: 560799

Ion	Ratio	Lower	Upper
136	100		
137	11.1	9.0	13.4
54	9.3	7.4	11.2
68	6.0	5.0	7.4

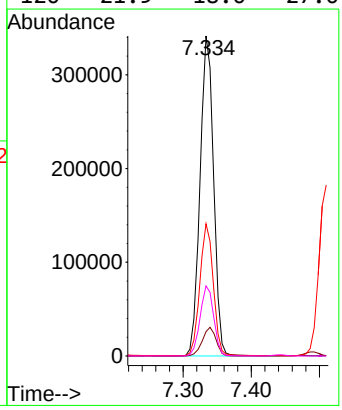


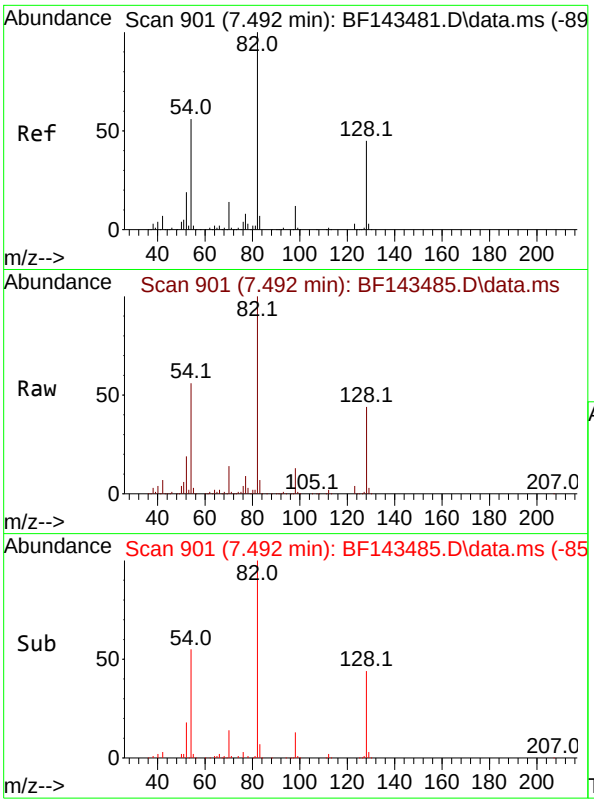


#22
Acetophenone
Concen: 38.990 ng
RT: 7.334 min Scan# 874
Delta R.T. -0.006 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Tgt Ion:105 Resp: 472388

Ion	Ratio	Lower	Upper
105	100		
71	7.6	5.9	8.9
51	41.3	32.5	48.7
120	21.9	18.0	27.0



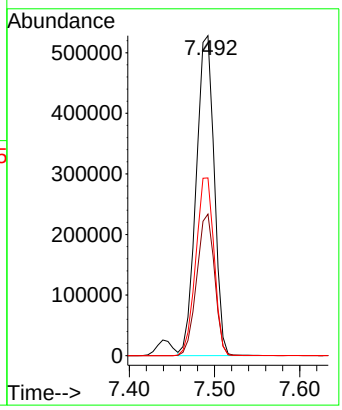


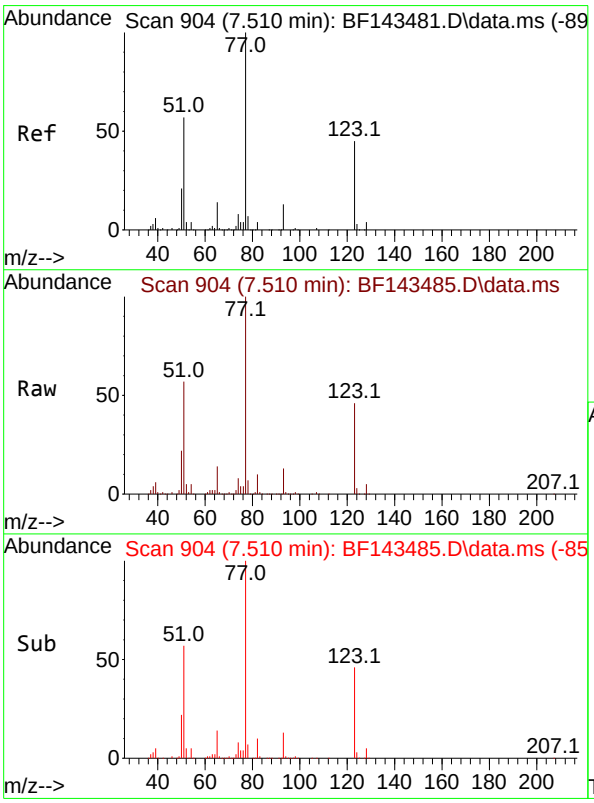
#23
Nitrobenzene-d5
Concen: 80.608 ng
RT: 7.492 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Instrument :
BNA_F
ClientSampleId :
ICVBF082025

Tgt Ion: 82 Resp: 774657

Ion	Ratio	Lower	Upper
82	100		
128	44.3	35.5	53.3
54	55.6	44.3	66.5

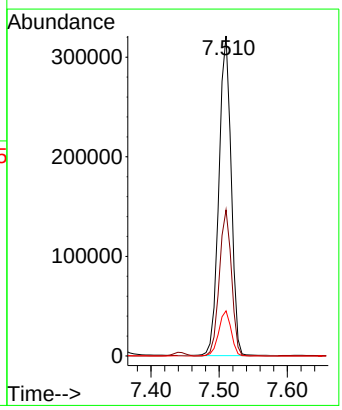


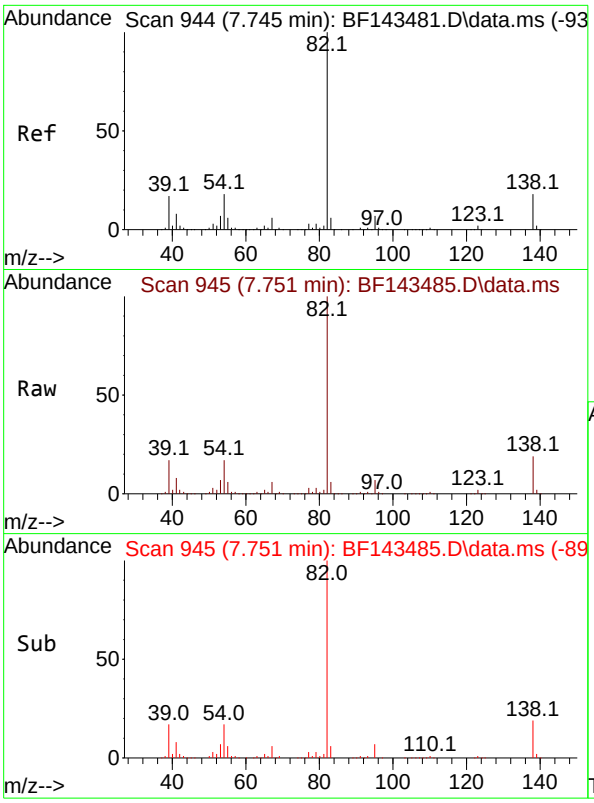


#24
Nitrobenzene
Concen: 40.579 ng
RT: 7.510 min Scan# 904
Delta R.T. -0.006 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Tgt Ion: 77 Resp: 401365

Ion	Ratio	Lower	Upper
77	100		
123	45.7	36.1	54.1
65	14.1	11.0	16.6



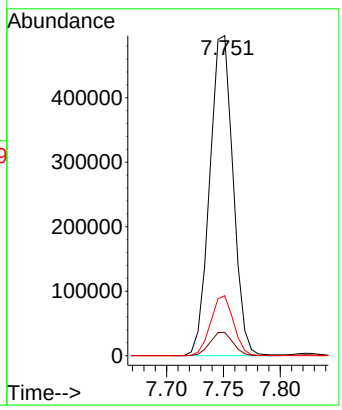


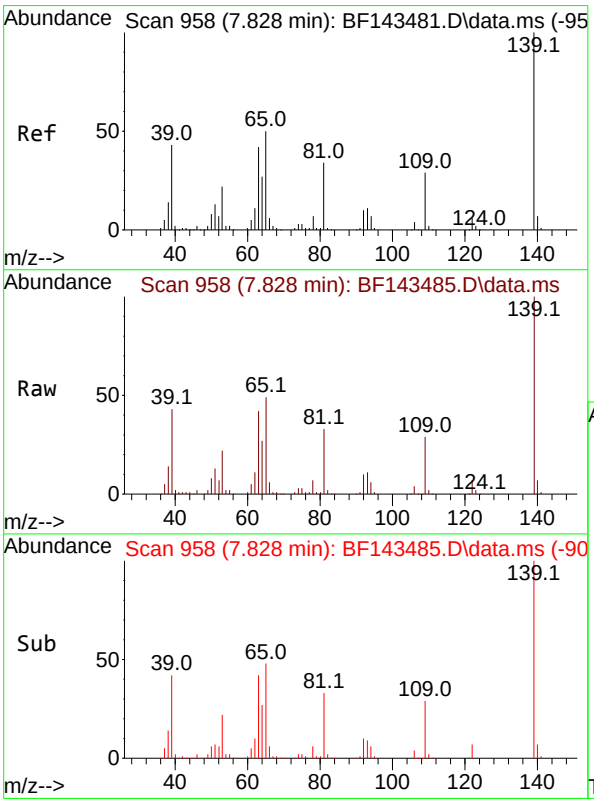
#25
Isophorone
Concen: 40.343 ng
RT: 7.751 min Scan# 94
Delta R.T. -0.006 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Instrument :
BNA_F
ClientSampleId :
ICVBF082025

Tgt Ion: 82 Resp: 710700

Ion	Ratio	Lower	Upper
82	100		
95	7.3	5.8	8.8
138	18.8	14.2	21.4

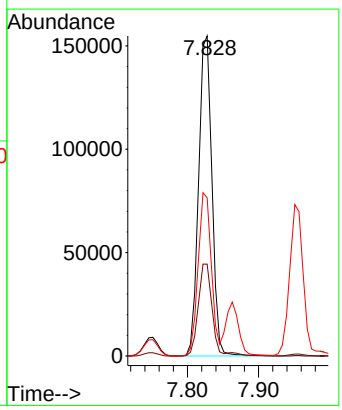


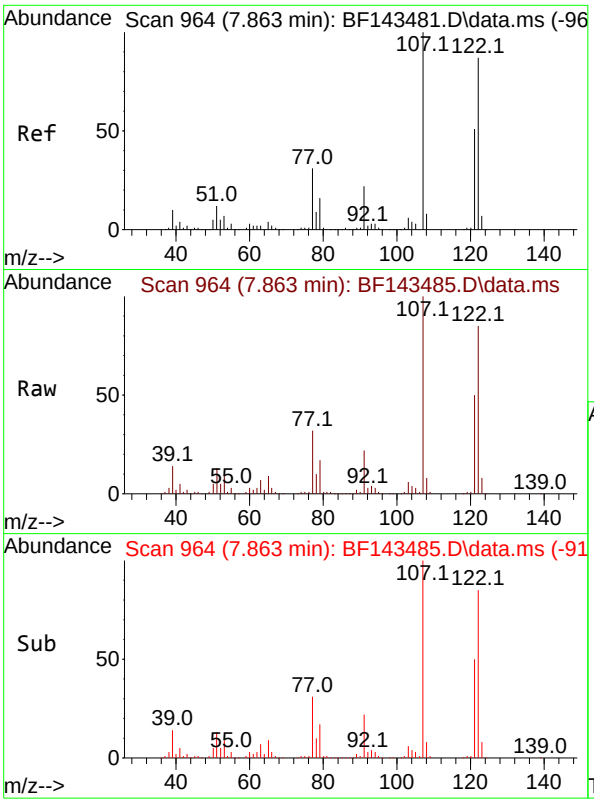


#26
2-Nitrophenol
Concen: 41.747 ng
RT: 7.828 min Scan# 958
Delta R.T. -0.000 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Tgt Ion:139 Resp: 202267

Ion	Ratio	Lower	Upper
139	100		
109	28.7	23.0	34.6
65	49.4	40.3	60.5



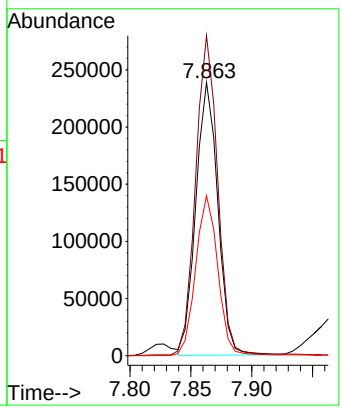


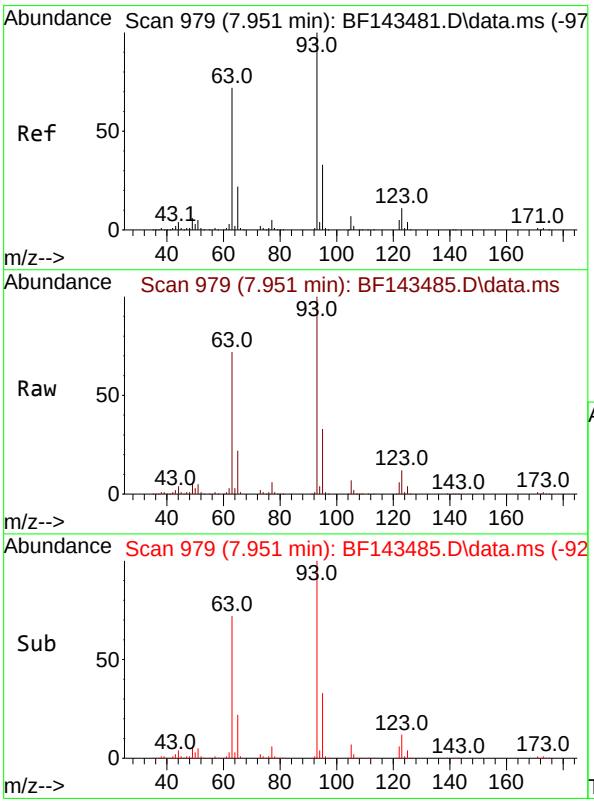
#27
2,4-Dimethylphenol
Concen: 39.655 ng
RT: 7.863 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Instrument :
BNA_F
ClientSampleId :
ICVBF082025

Tgt Ion:122 Resp: 299505

Ion	Ratio	Lower	Upper
122	100		
107	117.1	91.5	137.3
121	58.6	47.0	70.4

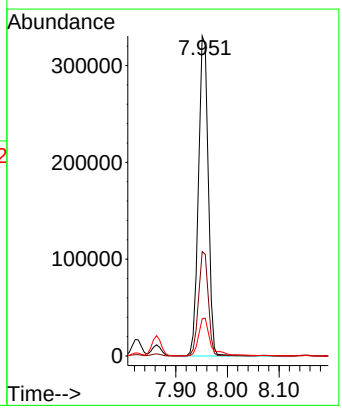


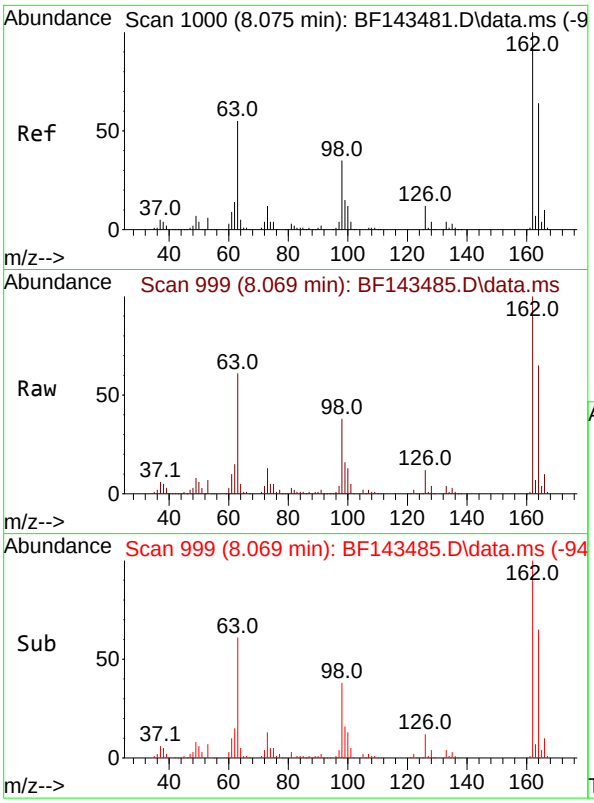


#28
bis(2-Chloroethoxy)methane
Concen: 40.210 ng
RT: 7.951 min Scan# 979
Delta R.T. -0.006 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Tgt Ion: 93 Resp: 435322

Ion	Ratio	Lower	Upper
93	100		
95	32.6	26.0	39.0
123	11.7	9.1	13.7



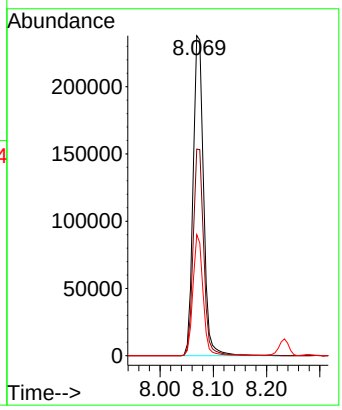


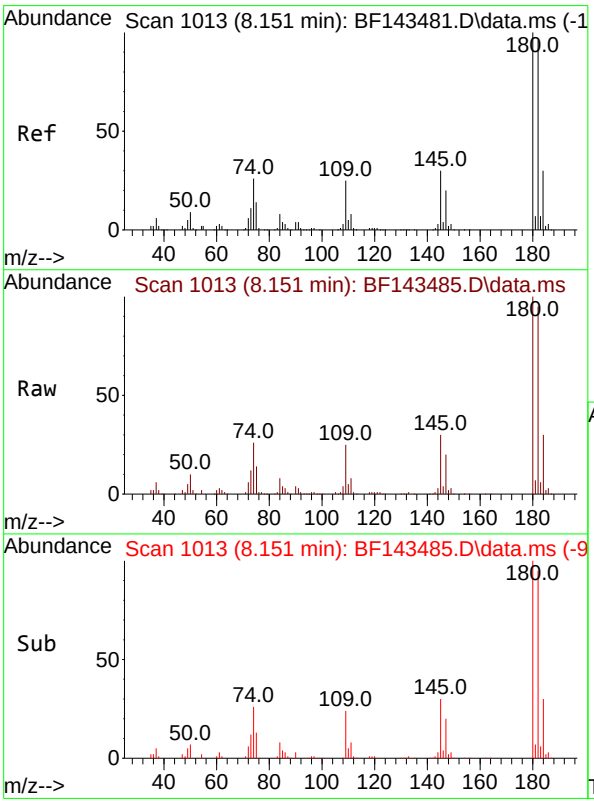
#29
2,4-Dichlorophenol
Concen: 40.217 ng
RT: 8.069 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Instrument :
BNA_F
ClientSampleId :
ICVBF082025

Tgt Ion:162 Resp: 324407

Ion	Ratio	Lower	Upper
162	100		
164	64.6	43.5	83.5
98	37.8	15.1	55.1

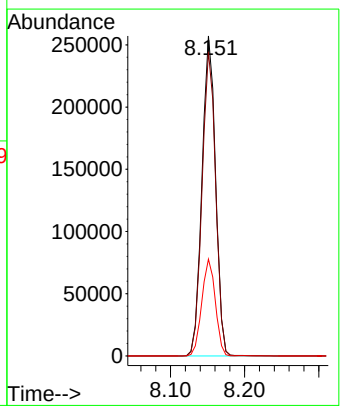


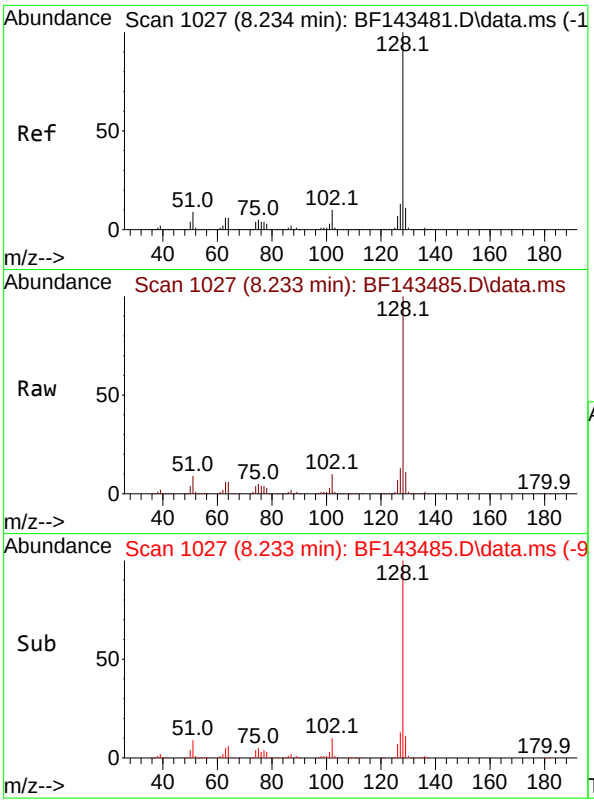


#30
1,2,4-Trichlorobenzene
Concen: 39.404 ng
RT: 8.151 min Scan# 1013
Delta R.T. -0.000 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Tgt Ion:180 Resp: 326797

Ion	Ratio	Lower	Upper
180	100		
182	95.0	76.6	114.8
145	30.3	24.3	36.5



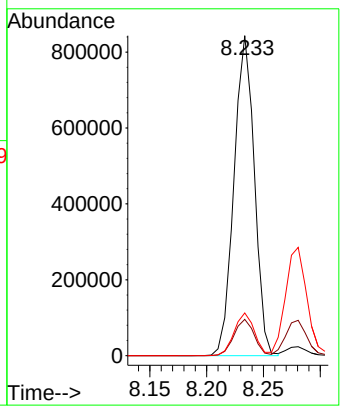


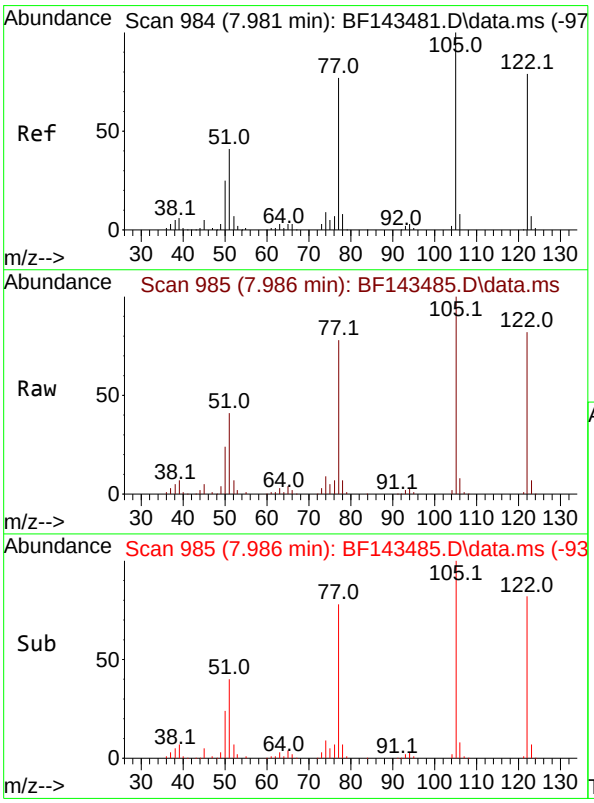
#31
Naphthalene
Concen: 39.033 ng
RT: 8.233 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Instrument :
BNA_F
ClientSampleId :
ICVBF082025

Tgt Ion:128 Resp: 1050936

Ion	Ratio	Lower	Upper
128	100		
129	11.4	8.8	13.2
127	13.3	10.6	16.0

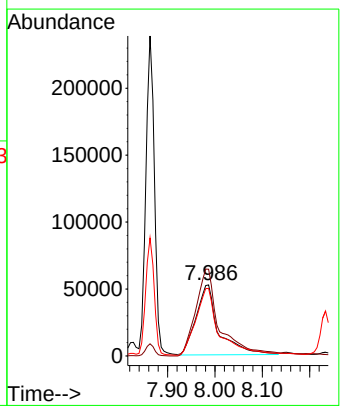


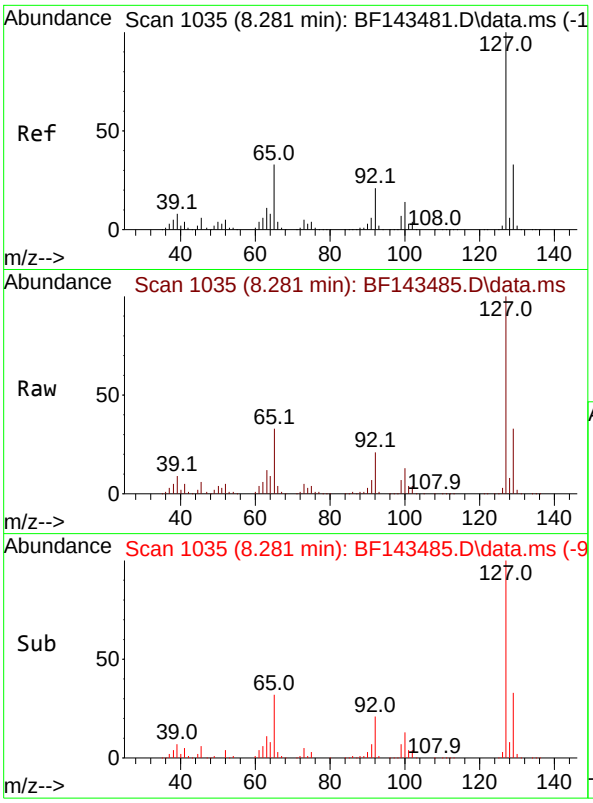


#32
Benzoic acid
Concen: 41.489 ng
RT: 7.986 min Scan# 985
Delta R.T. -0.024 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Tgt Ion:122 Resp: 174224

Ion	Ratio	Lower	Upper
122	100		
105	122.1	104.7	144.7
77	95.0	77.3	117.3



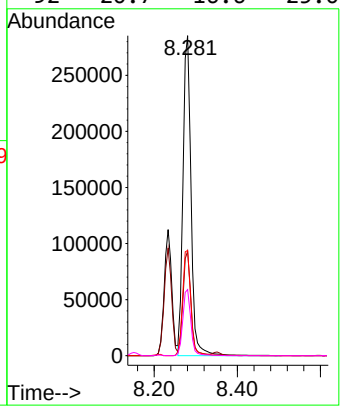


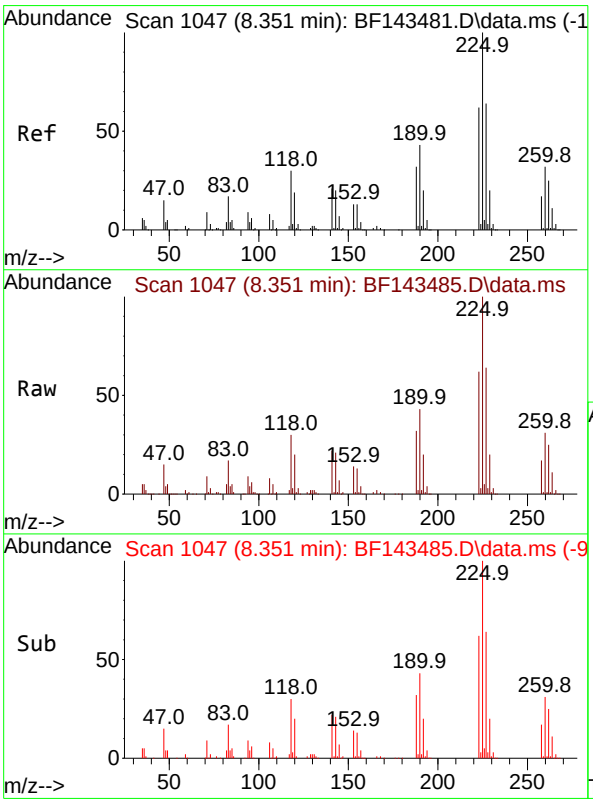
#33
4-Chloroaniline
Concen: 40.234 ng
RT: 8.281 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Instrument :
BNA_F
ClientSampleId :
ICVBF082025

Tgt Ion:127 Resp: 384473

Ion	Ratio	Lower	Upper
127	100		
129	32.6	26.1	39.1
65	32.9	26.2	39.2
92	20.7	16.6	25.0

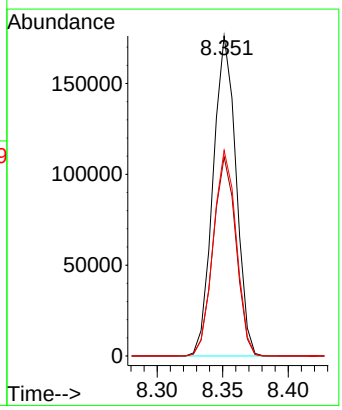


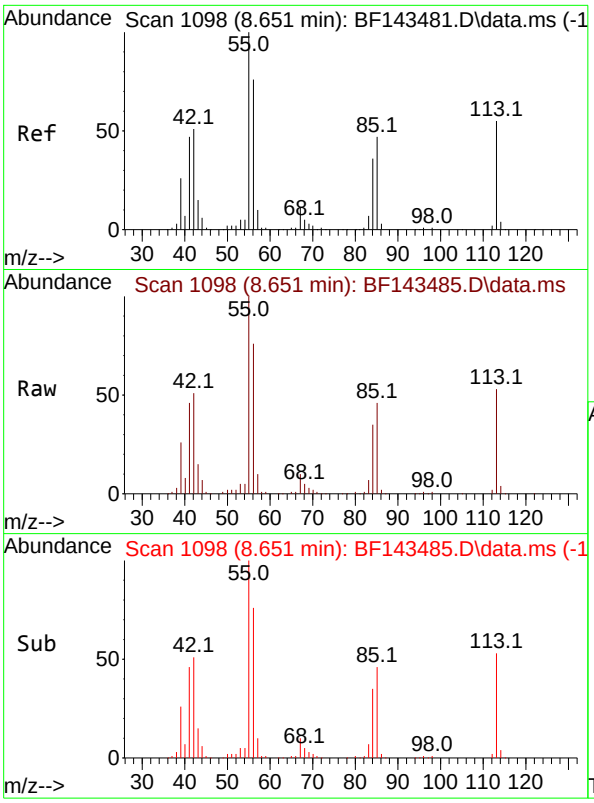


#34
Hexachlorobutadiene
Concen: 39.523 ng
RT: 8.351 min Scan# 1047
Delta R.T. -0.000 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Tgt Ion:225 Resp: 213848

Ion	Ratio	Lower	Upper
225	100		
223	62.2	49.9	74.9
227	64.2	50.9	76.3



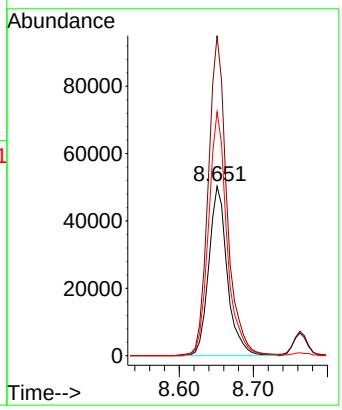


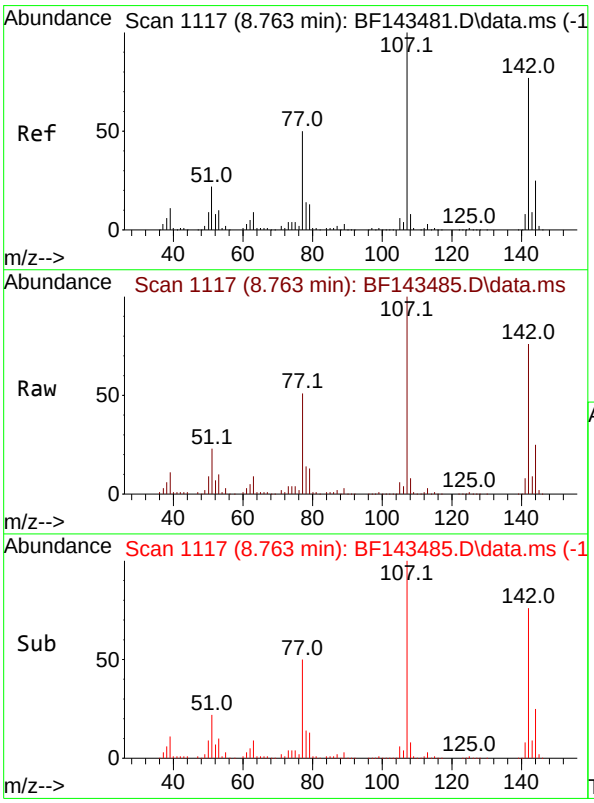
#35
Caprolactam
Concen: 44.838 ng
RT: 8.651 min Scan# 1
Delta R.T. -0.024 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Instrument :
BNA_F
ClientSampleId :
ICVBF082025

Tgt Ion:113 Resp: 86788

Ion	Ratio	Lower	Upper
113	100		
55	188.9	162.8	202.8
56	144.0	118.1	158.1

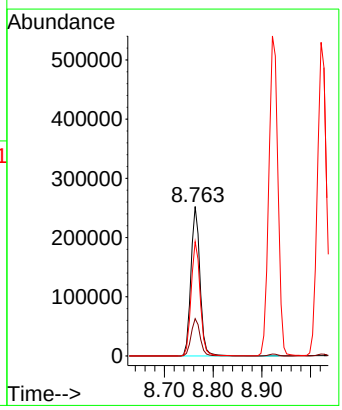


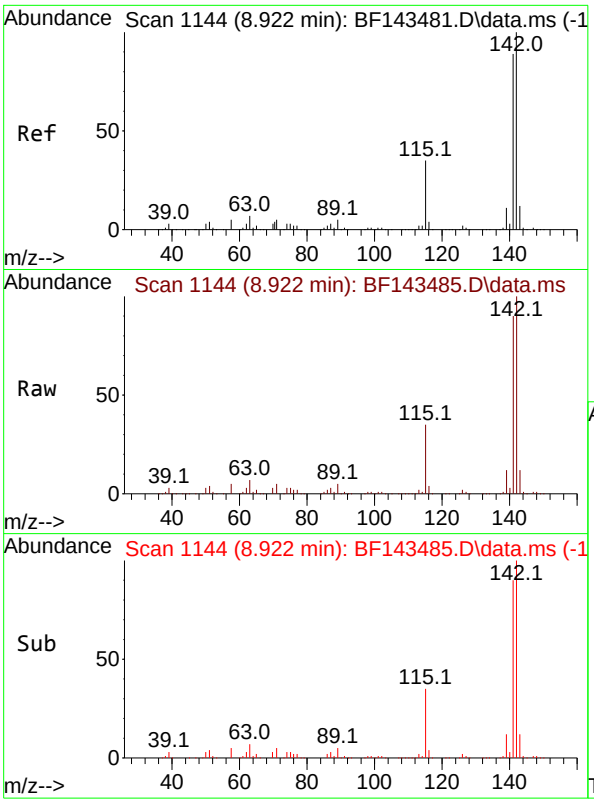


#36
4-Chloro-3-methylphenol
Concen: 40.569 ng
RT: 8.763 min Scan# 1117
Delta R.T. -0.006 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Tgt Ion:107 Resp: 327951

Ion	Ratio	Lower	Upper
107	100		
144	24.9	19.9	29.9
142	76.5	61.8	92.8



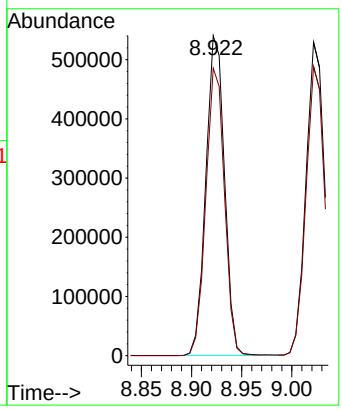


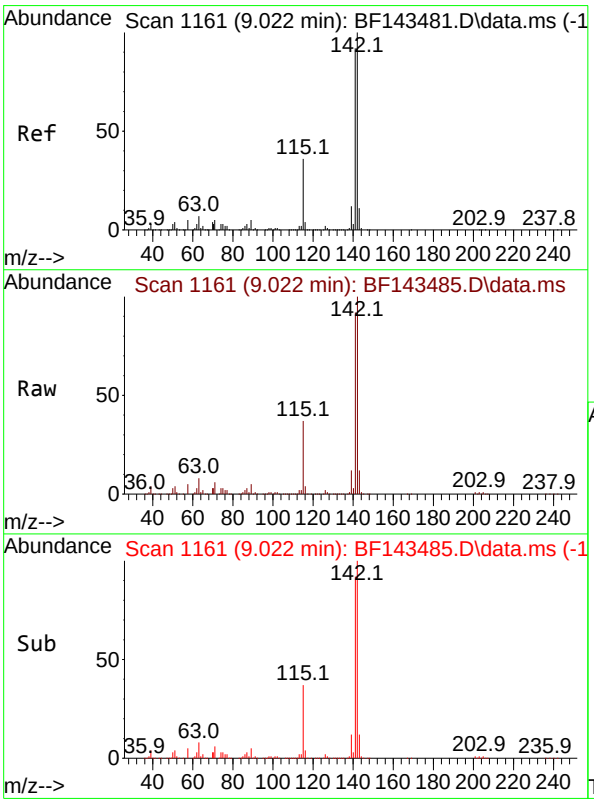
#37
2-Methylnaphthalene
Concen: 38.877 ng
RT: 8.922 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Instrument :
BNA_F
ClientSampleId :
ICVBF082025

Tgt Ion:142 Resp: 699087

Ion	Ratio	Lower	Upper
142	100		
141	89.8	71.0	106.4

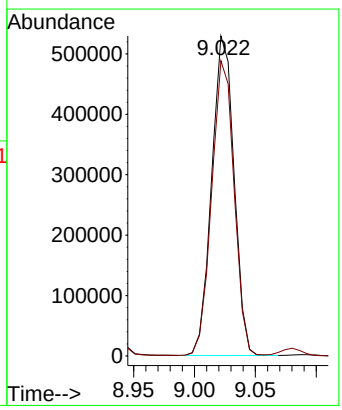


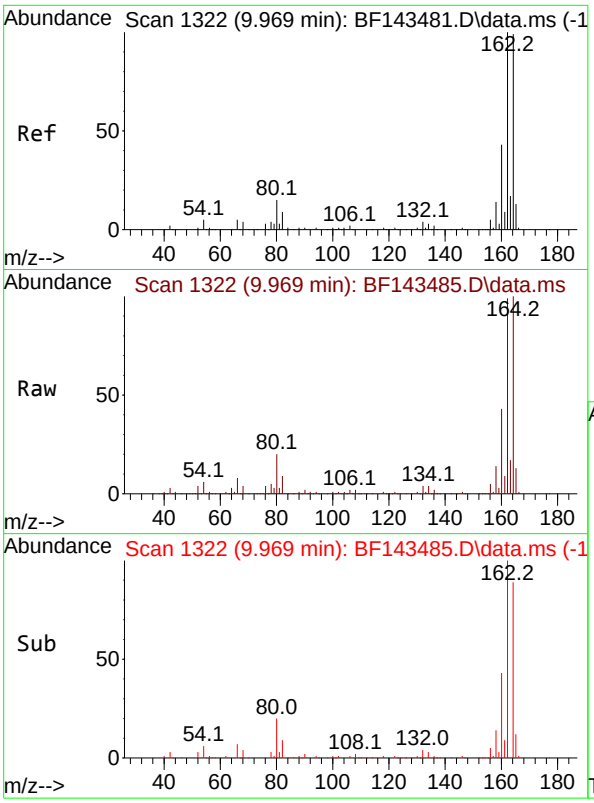


#38
1-Methylnaphthalene
Concen: 39.260 ng
RT: 9.022 min Scan# 1161
Delta R.T. -0.006 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Tgt Ion:142 Resp: 675310

Ion	Ratio	Lower	Upper
142	100		
141	92.3	73.3	109.9



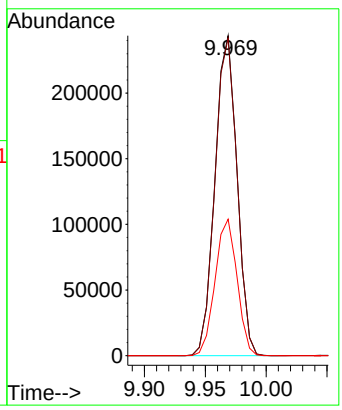


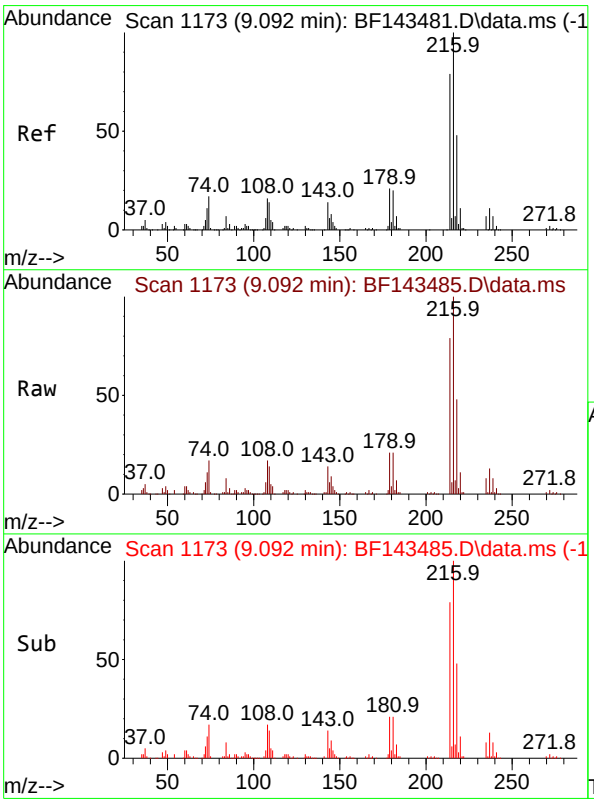
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Instrument :
BNA_F
ClientSampleId :
ICVBF082025

Tgt Ion:164 Resp: 307376

Ion	Ratio	Lower	Upper
164	100		
162	99.2	80.5	120.7
160	42.7	34.3	51.5

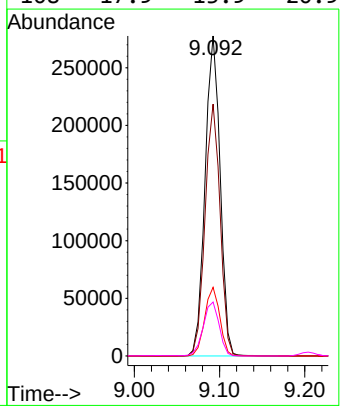


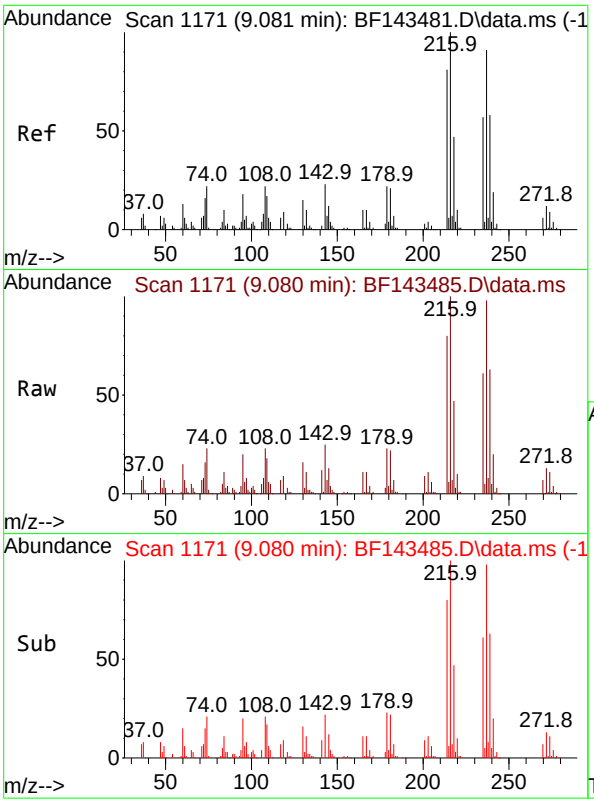


#40
1,2,4,5-Tetrachlorobenzene
Concen: 38.786 ng
RT: 9.092 min Scan# 1173
Delta R.T. -0.000 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Tgt Ion:216 Resp: 341006

Ion	Ratio	Lower	Upper
216	100		
214	78.7	63.4	95.0
179	21.5	16.5	24.7
108	17.9	13.9	20.9



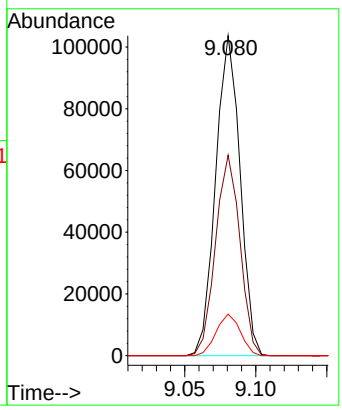


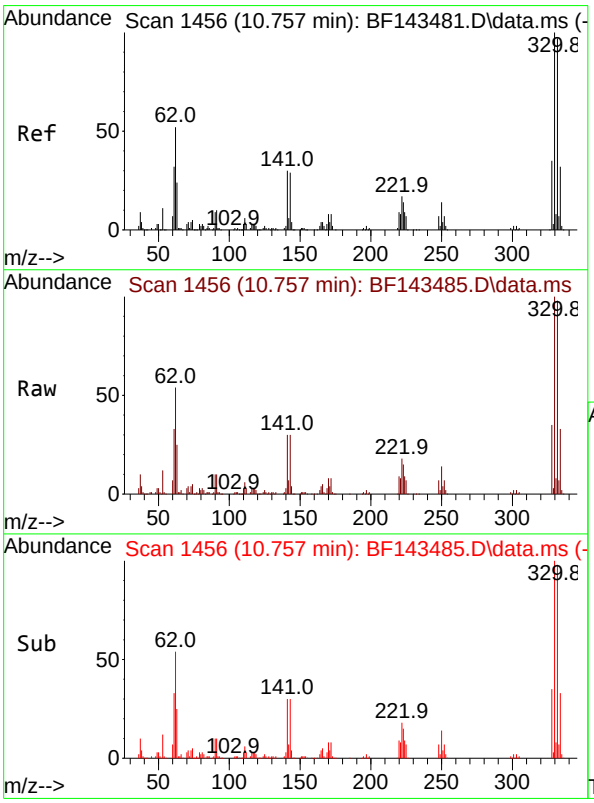
#41
Hexachlorocyclopentadiene
Concen: 39.756 ng
RT: 9.080 min Scan# 11
Delta R.T. -0.001 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Instrument :
BNA_F
ClientSampleId :
ICVBF082025

Tgt Ion:237 Resp: 123767

Ion	Ratio	Lower	Upper
237	100		
235	62.7	42.6	82.6
272	13.0	0.0	33.4

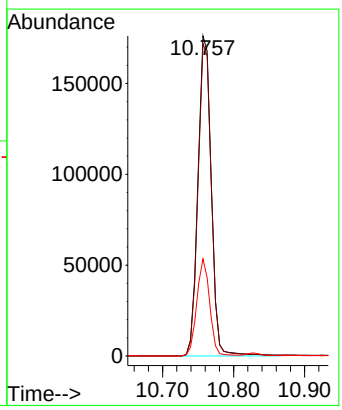


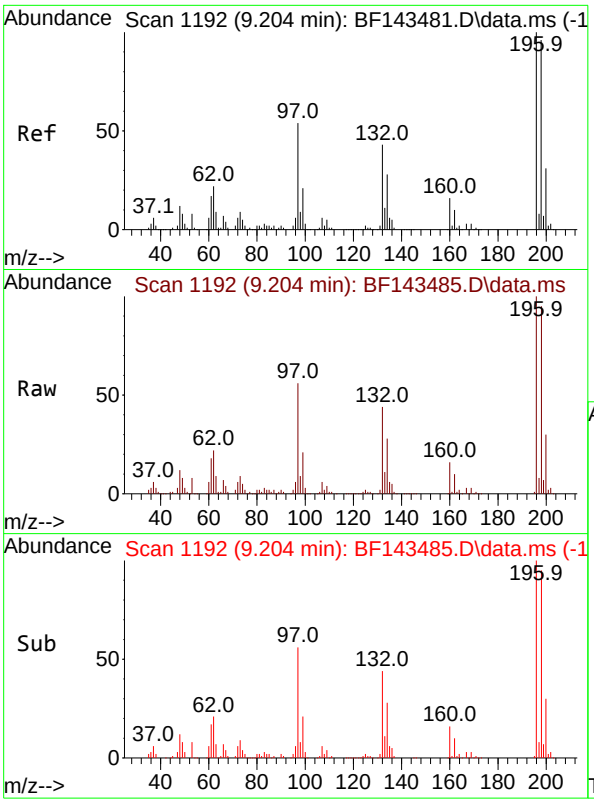


#42
2,4,6-Tribromophenol
Concen: 80.753 ng
RT: 10.757 min Scan# 1456
Delta R.T. -0.006 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Tgt Ion:330 Resp: 231053

Ion	Ratio	Lower	Upper
330	100		
332	97.7	78.0	117.0
141	29.3	23.7	35.5



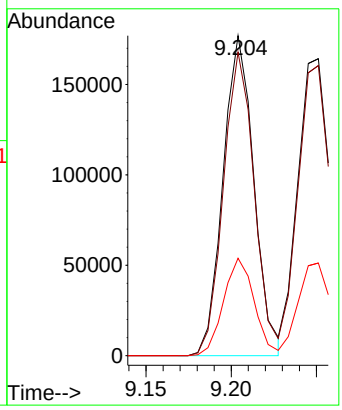


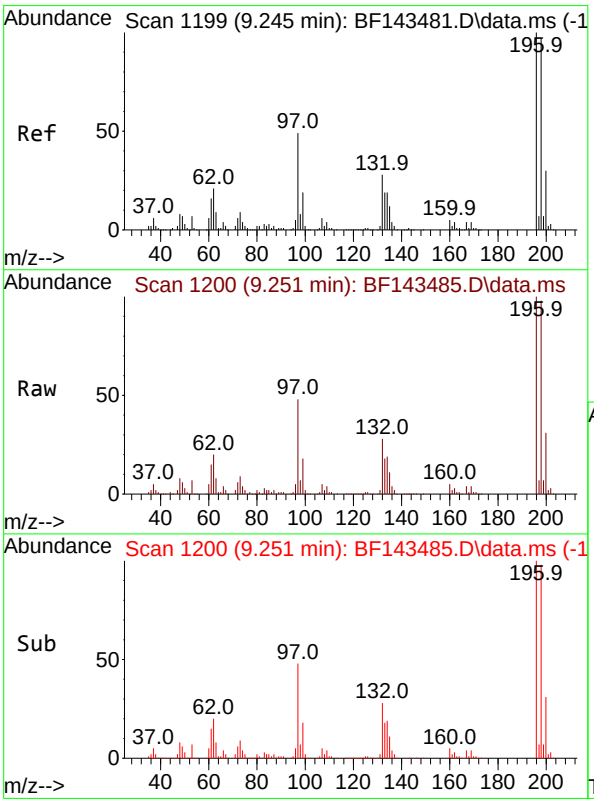
#43
2,4,6-Trichlorophenol
Concen: 41.105 ng
RT: 9.204 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Instrument :
BNA_F
ClientSampleId :
ICVBF082025

Tgt Ion:196 Resp: 222378

Ion	Ratio	Lower	Upper
196	100		
198	94.8	77.0	115.4
200	30.4	24.6	37.0

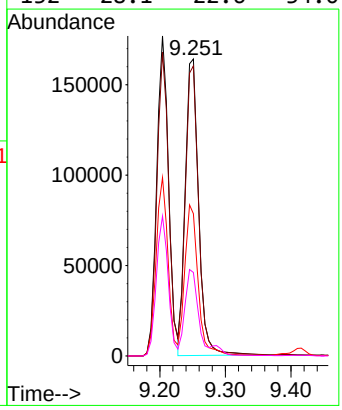


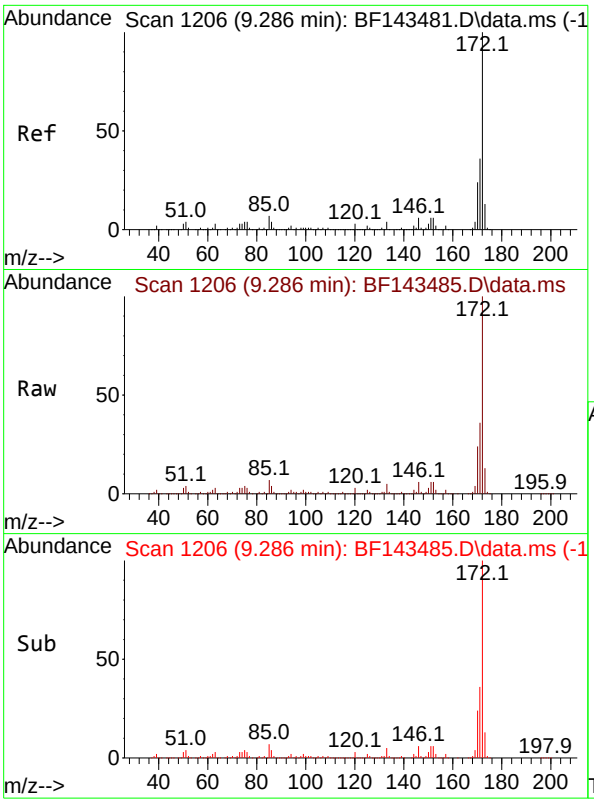


#44
2,4,5-Trichlorophenol
Concen: 39.178 ng
RT: 9.251 min Scan# 1200
Delta R.T. -0.000 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Tgt Ion:196 Resp: 231521

Ion	Ratio	Lower	Upper
196	100		
198	97.7	77.3	115.9
97	47.9	40.0	60.0
132	28.1	22.6	34.0



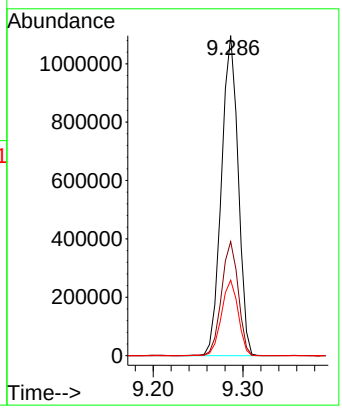


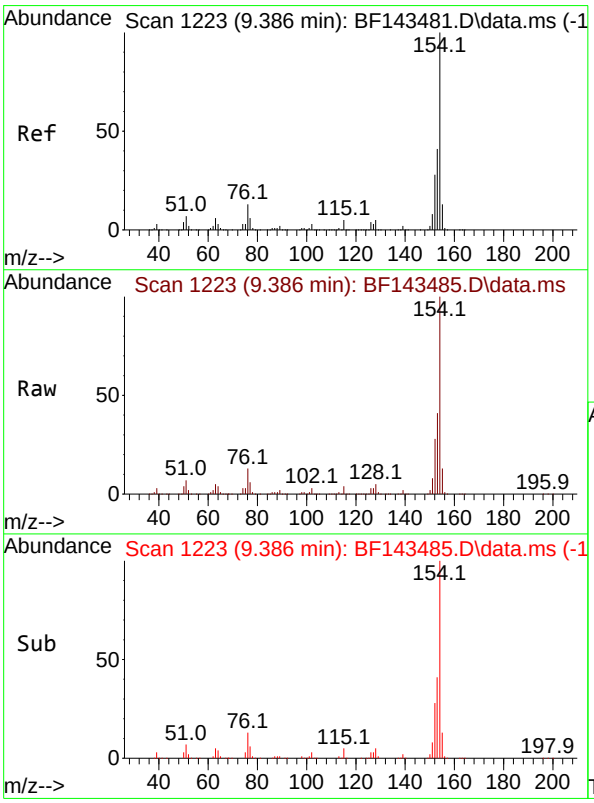
#45
2-Fluorobiphenyl
Concen: 76.290 ng
RT: 9.286 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Instrument :
BNA_F
ClientSampleId :
ICVBF082025

Tgt Ion:172 Resp: 1418903

Ion	Ratio	Lower	Upper
172	100		
171	35.7	28.8	43.2
170	23.6	18.8	28.2

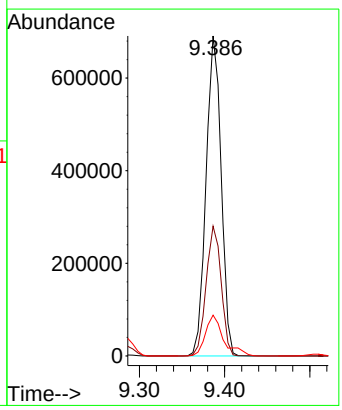


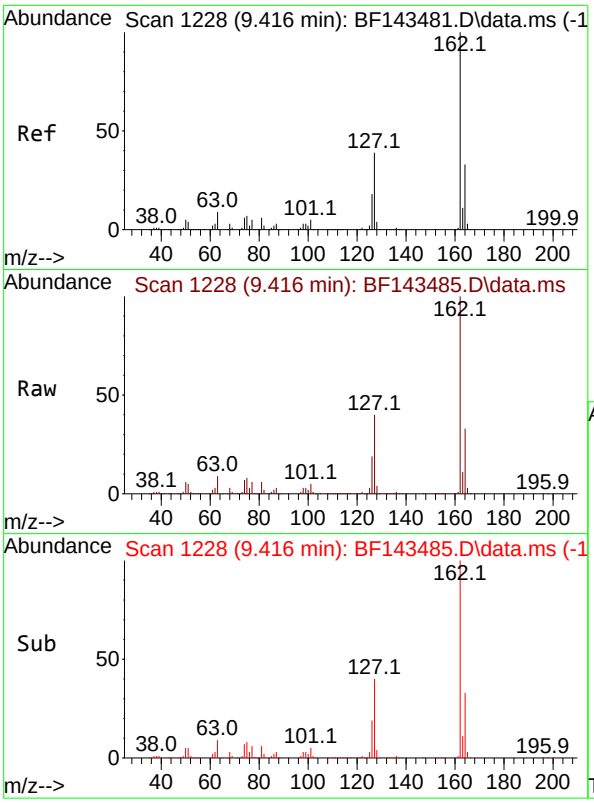


#46
1,1'-Biphenyl
Concen: 38.997 ng
RT: 9.386 min Scan# 1223
Delta R.T. -0.006 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Tgt Ion:154 Resp: 850787

Ion	Ratio	Lower	Upper
154	100		
153	40.5	20.6	60.6
76	12.8	0.0	33.0



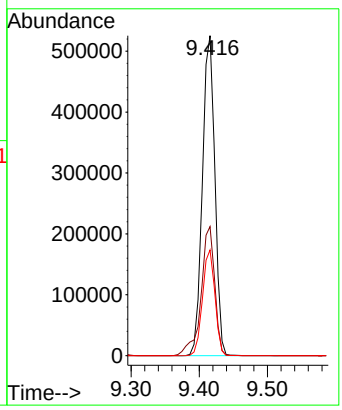


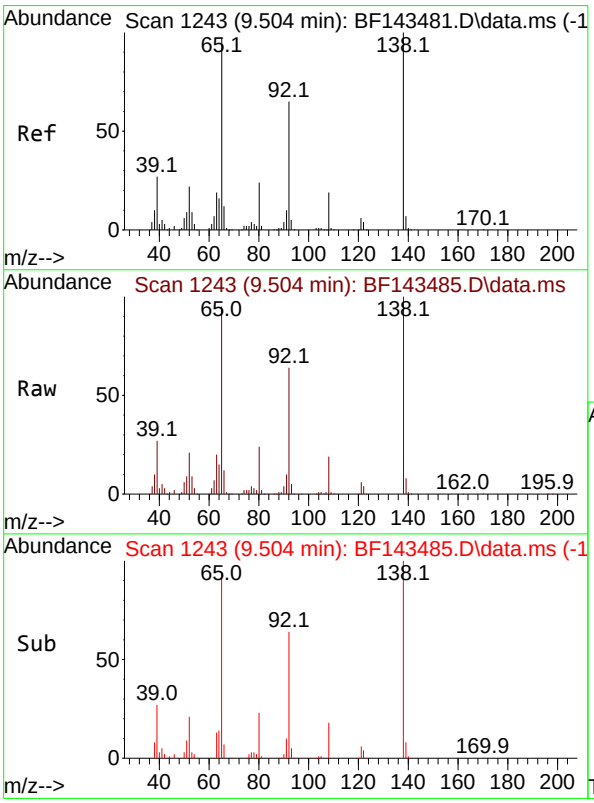
#47
2-Chloronaphthalene
Concen: 39.068 ng
RT: 9.416 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Instrument :
BNA_F
ClientSampleId :
ICVBF082025

Tgt Ion:162 Resp: 668760

Ion	Ratio	Lower	Upper
162	100		
127	40.4	31.8	47.6
164	33.0	26.4	39.6

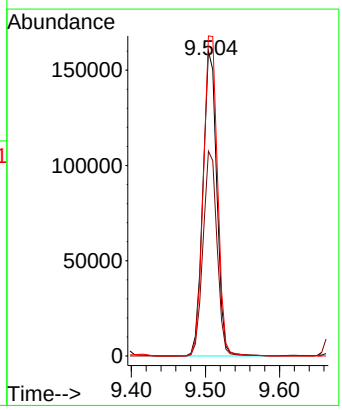


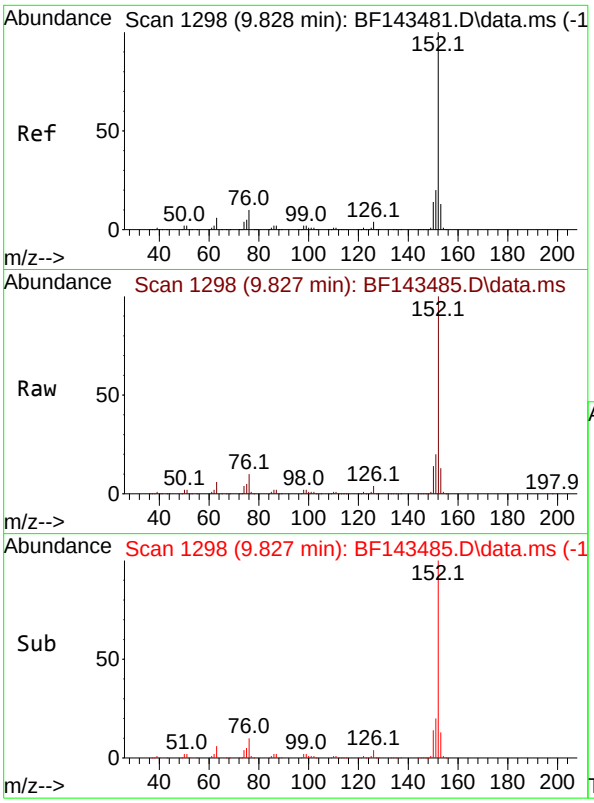


#48
2-Nitroaniline
Concen: 41.861 ng
RT: 9.504 min Scan# 1243
Delta R.T. -0.006 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Tgt Ion: 65 Resp: 209716

Ion	Ratio	Lower	Upper
65	100		
92	67.1	53.8	80.6
138	104.9	82.4	123.6



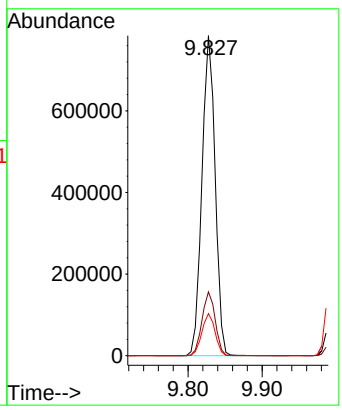


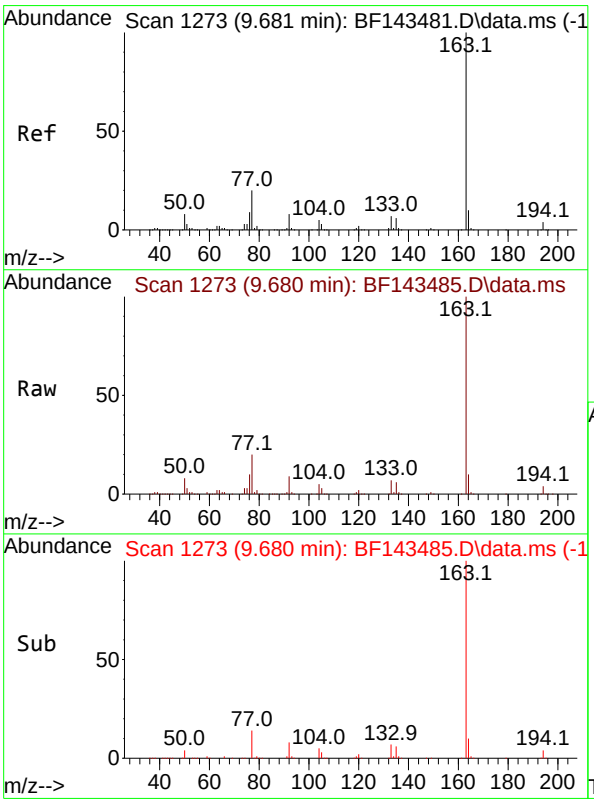
#49
Acenaphthylene
Concen: 39.557 ng
RT: 9.827 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Instrument :
BNA_F
ClientSampleId :
ICVBF082025

Tgt Ion:152 Resp: 969574

Ion	Ratio	Lower	Upper
152	100		
151	19.9	16.2	24.4
153	13.1	10.6	15.8

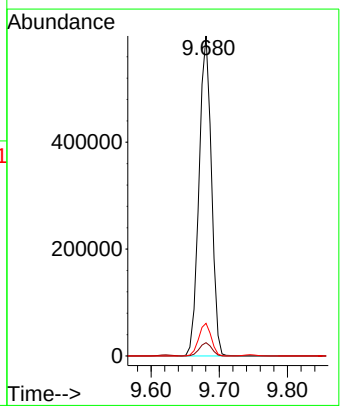


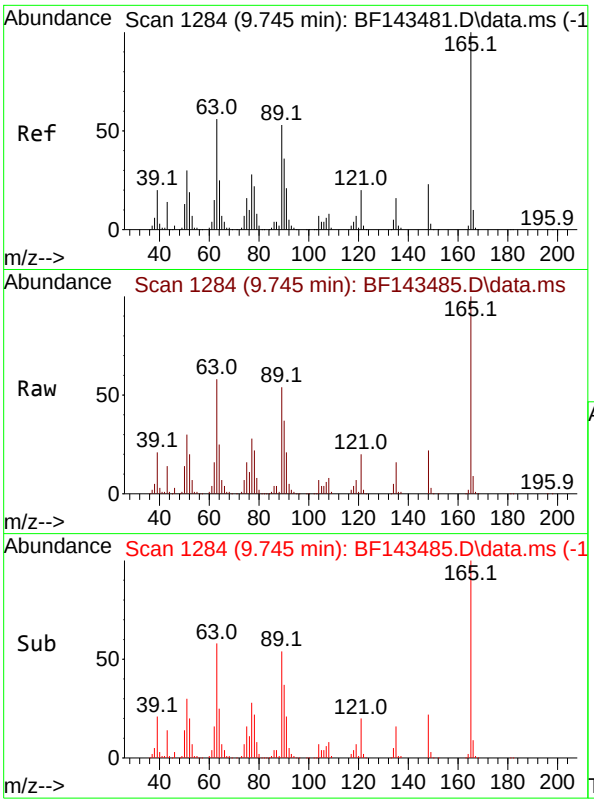


#50
Dimethylphthalate
Concen: 40.935 ng
RT: 9.680 min Scan# 1273
Delta R.T. -0.000 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Tgt Ion:163 Resp: 757804

Ion	Ratio	Lower	Upper
163	100		
194	4.2	3.4	5.0
164	10.2	8.2	12.2



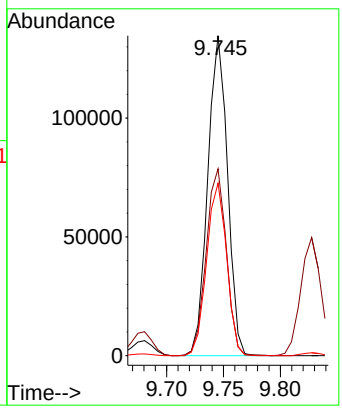


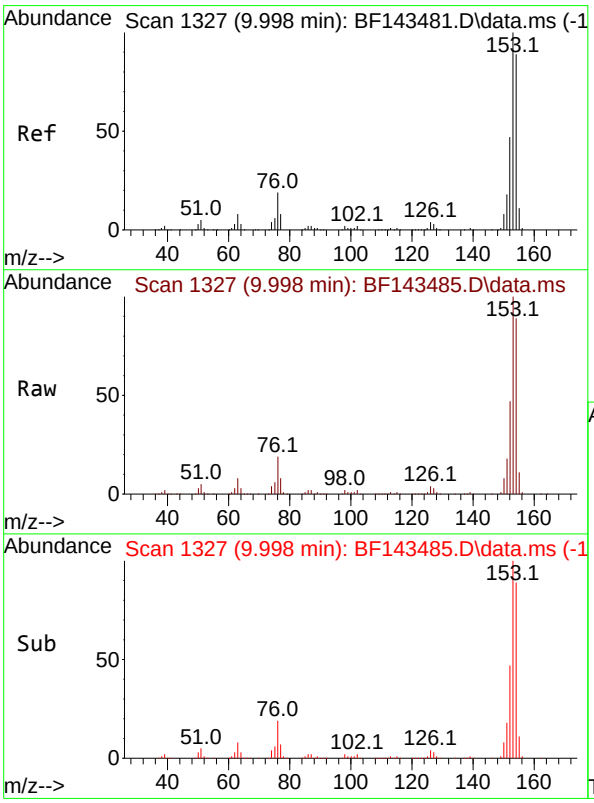
#51
2,6-Dinitrotoluene
Concen: 42.459 ng
RT: 9.745 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Instrument :
BNA_F
ClientSampleId :
ICVBF082025

Tgt Ion:165 Resp: 162905

Ion	Ratio	Lower	Upper
165	100		
63	58.4	45.0	67.6
89	53.9	42.5	63.7

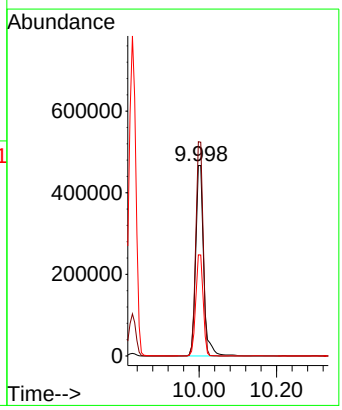


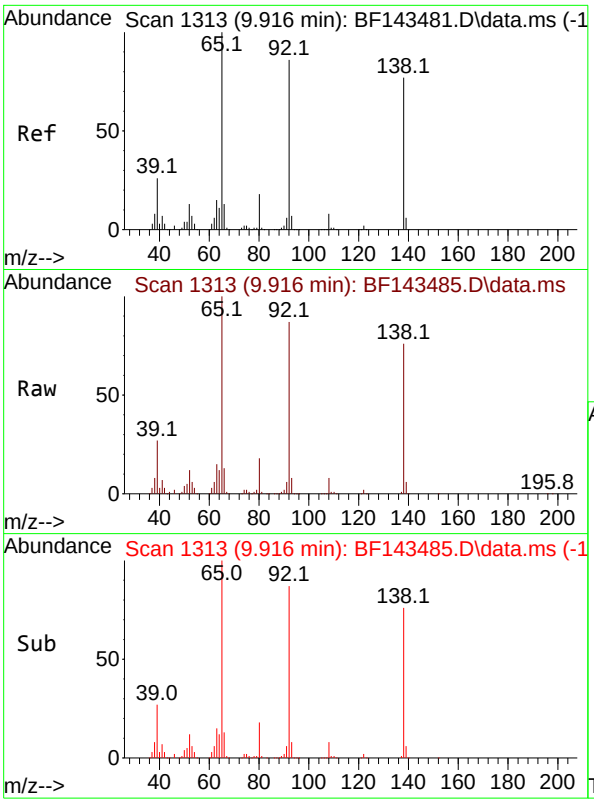


#52
Acenaphthene
Concen: 39.941 ng
RT: 9.998 min Scan# 1327
Delta R.T. -0.006 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Tgt Ion:154 Resp: 664685

Ion	Ratio	Lower	Upper
154	100		
153	112.5	89.5	134.3
152	53.1	42.5	63.7



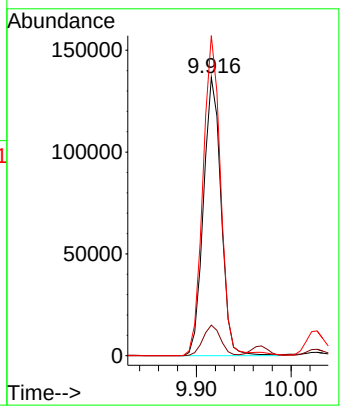


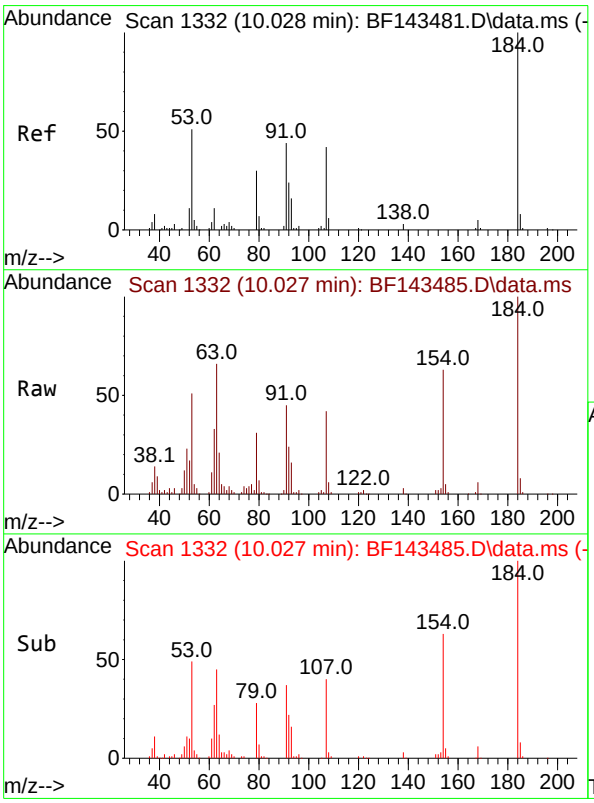
#53
3-Nitroaniline
Concen: 42.506 ng
RT: 9.916 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Instrument :
BNA_F
ClientSampleId :
ICVBF082025

Tgt Ion:138 Resp: 176223

Ion	Ratio	Lower	Upper
138	100		
108	11.0	8.6	13.0
92	115.0	89.8	134.8

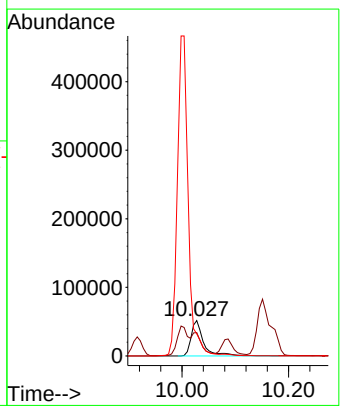


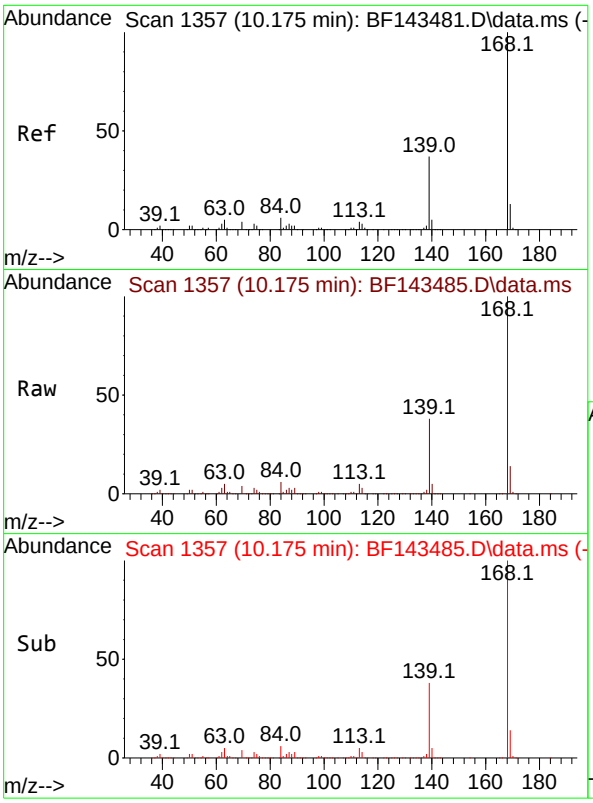


#54
2,4-Dinitrophenol
Concen: 43.761 ng
RT: 10.027 min Scan# 1332
Delta R.T. -0.001 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Tgt Ion:184 Resp: 84522

Ion	Ratio	Lower	Upper
184	100		
63	66.1	52.6	78.8
154	62.6	51.0	76.4



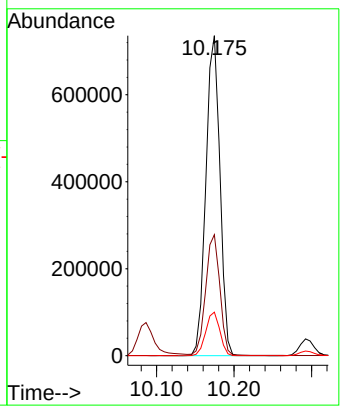


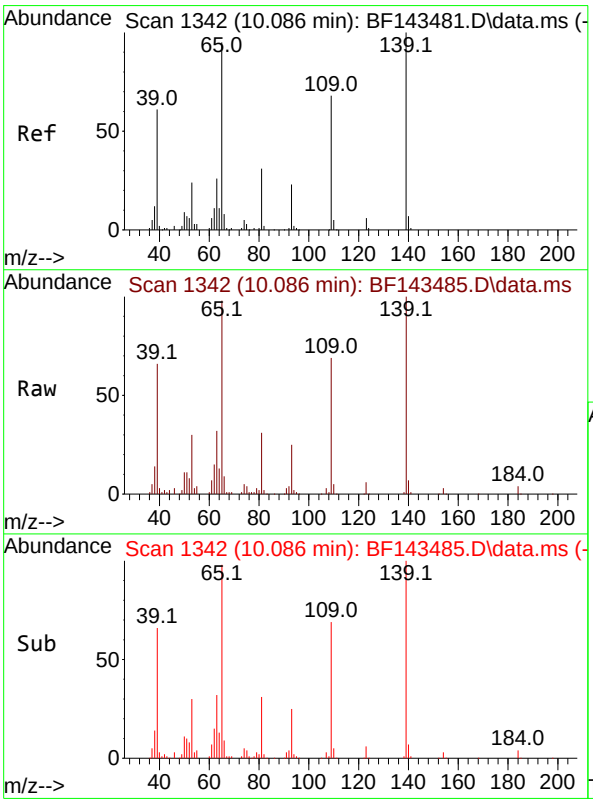
#55
Dibenzofuran
Concen: 39.023 ng
RT: 10.175 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Instrument :
BNA_F
ClientSampleId :
ICVBF082025

Tgt Ion:168 Resp: 925864

Ion	Ratio	Lower	Upper
168	100		
139	37.8	29.8	44.6
169	13.6	10.8	16.2

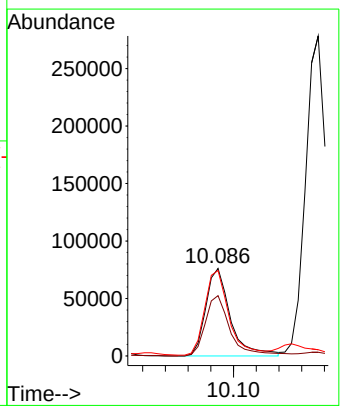


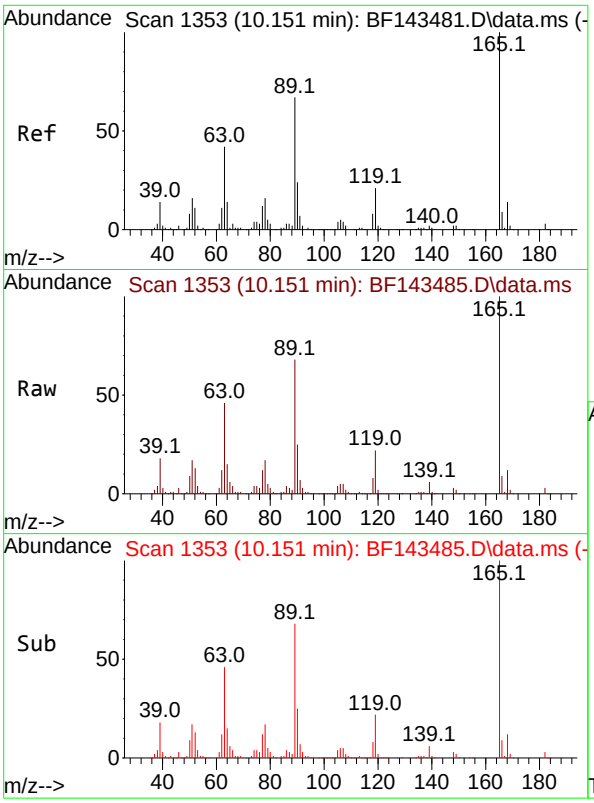


#56
4-Nitrophenol
Concen: 46.387 ng
RT: 10.086 min Scan# 1342
Delta R.T. 0.000 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Tgt Ion:139 Resp: 114429

Ion	Ratio	Lower	Upper
139	100		
109	68.9	48.2	88.2
65	97.6	75.8	115.8



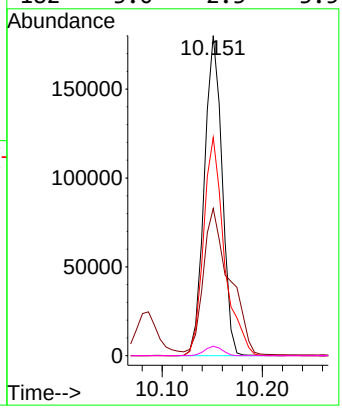


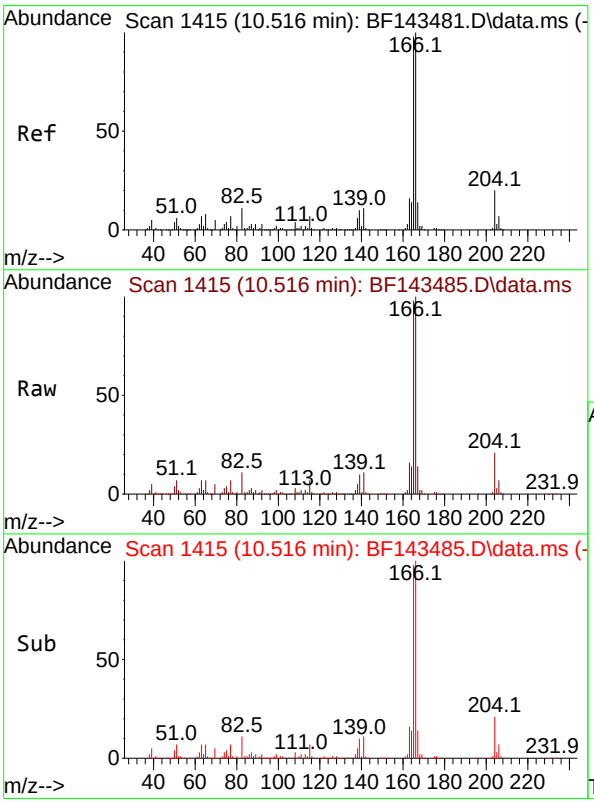
#57
2,4-Dinitrotoluene
Concen: 43.183 ng
RT: 10.151 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Instrument :
BNA_F
ClientSampleId :
ICVBF082025

Tgt Ion:165 Resp: 221231

Ion	Ratio	Lower	Upper
165	100		
63	46.0	34.9	52.3
89	68.2	53.3	79.9
182	3.0	2.3	3.5

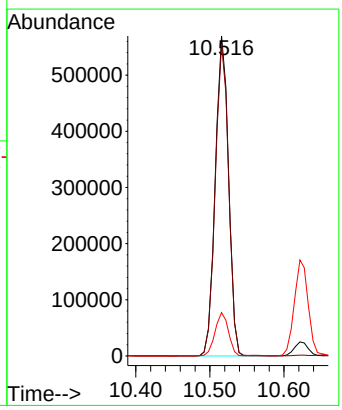


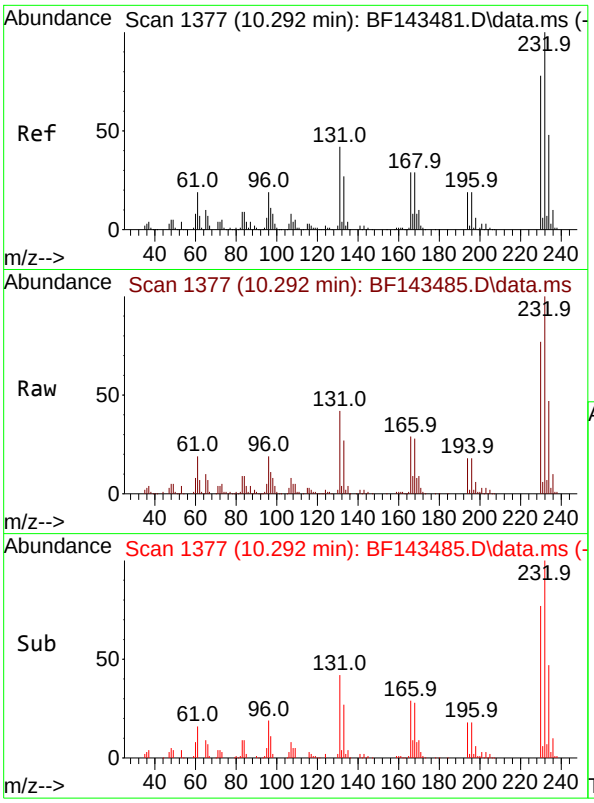


#58
Fluorene
Concen: 38.901 ng
RT: 10.516 min Scan# 1415
Delta R.T. -0.006 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Tgt Ion:166 Resp: 710368

Ion	Ratio	Lower	Upper
166	100		
165	97.5	78.3	117.5
167	13.5	11.0	16.4



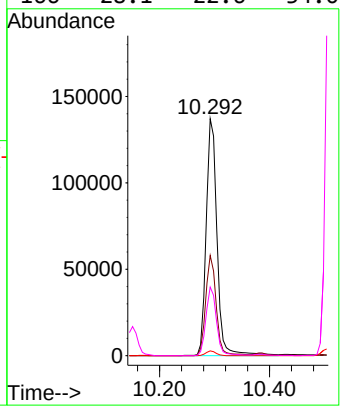


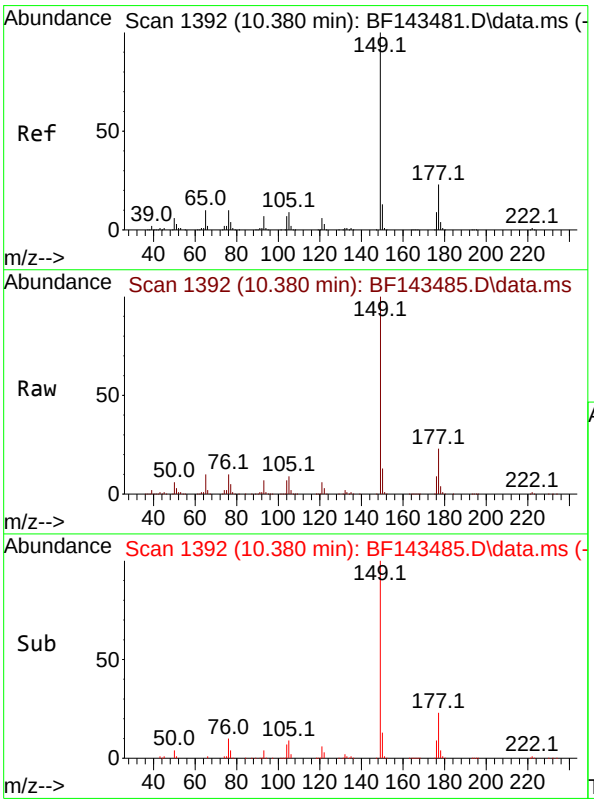
#59
2,3,4,6-Tetrachlorophenol
Concen: 42.767 ng
RT: 10.292 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Instrument :
BNA_F
ClientSampleId :
ICVBF082025

Tgt Ion:232 Resp: 187764

Ion	Ratio	Lower	Upper
232	100		
131	40.8	32.7	49.1
130	1.9	1.6	2.4
166	28.1	22.6	34.0

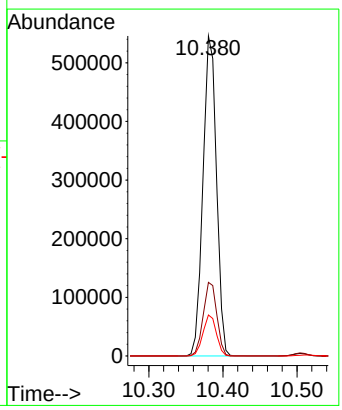


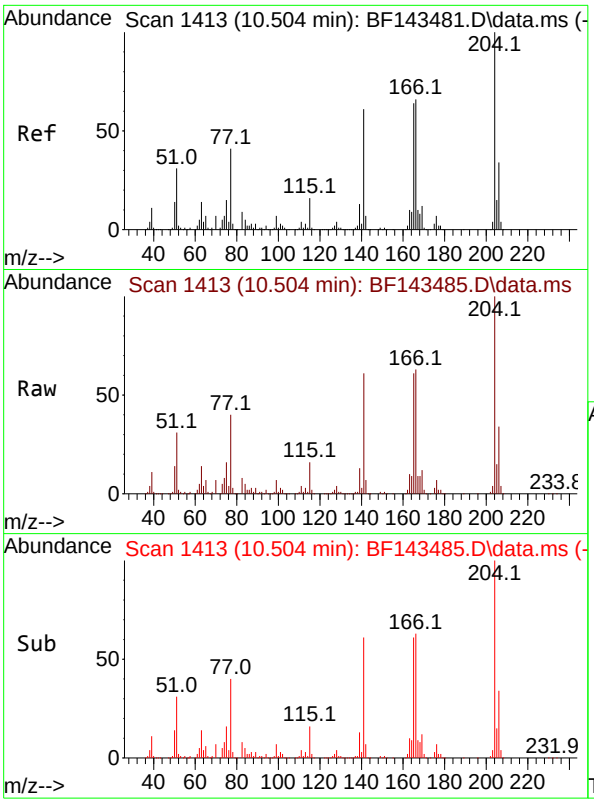


#60
Diethylphthalate
Concen: 41.708 ng
RT: 10.380 min Scan# 1392
Delta R.T. -0.006 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Tgt Ion:149 Resp: 692256

Ion	Ratio	Lower	Upper
149	100		
177	23.0	18.3	27.5
150	12.8	10.3	15.5



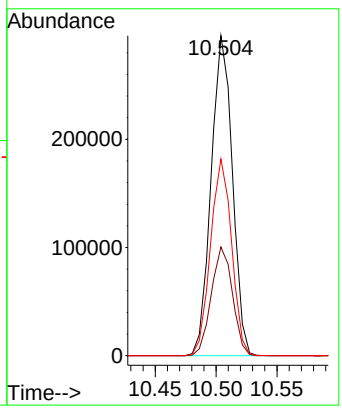


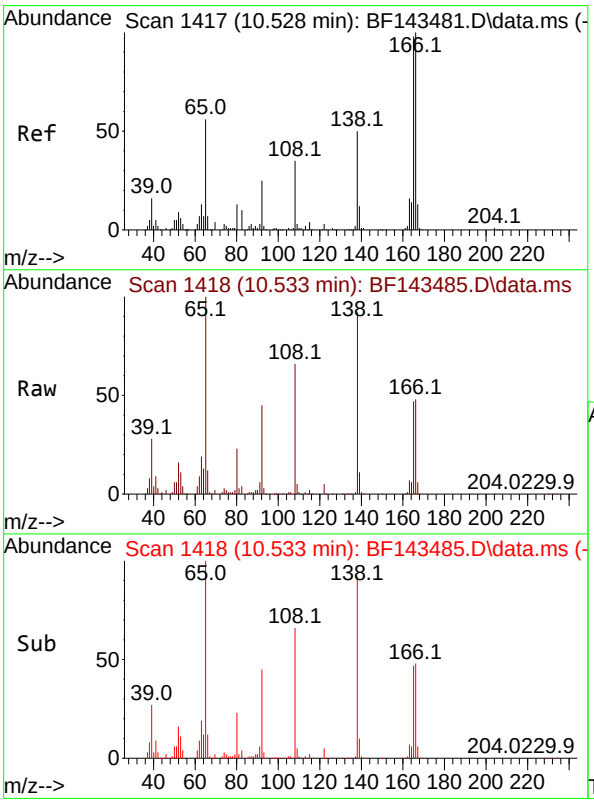
#61
4-Chlorophenyl-phenylether
Concen: 39.269 ng
RT: 10.504 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Instrument :
BNA_F
ClientSampleId :
ICVBF082025

Tgt Ion:204 Resp: 358628

Ion	Ratio	Lower	Upper
204	100		
206	33.9	27.0	40.4
141	61.4	48.7	73.1

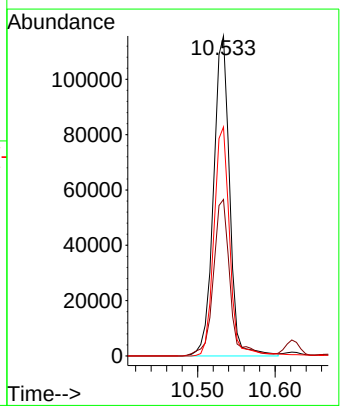


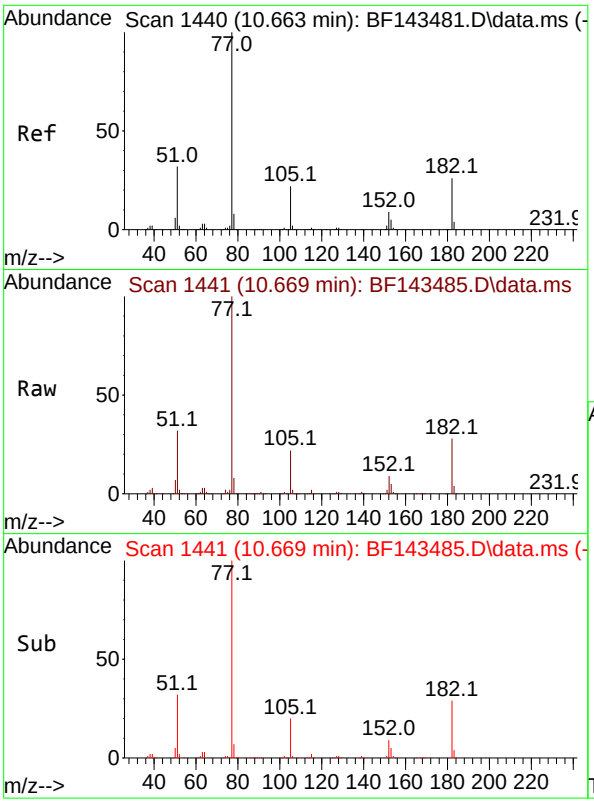


#62
4-Nitroaniline
Concen: 43.927 ng
RT: 10.533 min Scan# 1418
Delta R.T. -0.006 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Tgt Ion:138 Resp: 167278

Ion	Ratio	Lower	Upper
138	100		
92	48.9	29.3	69.3
108	71.6	50.7	90.7



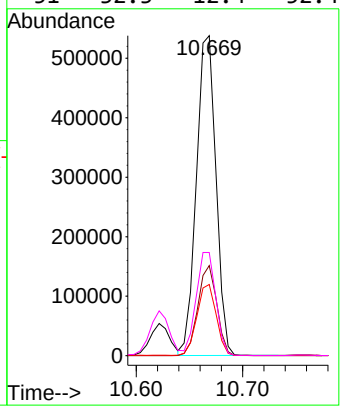


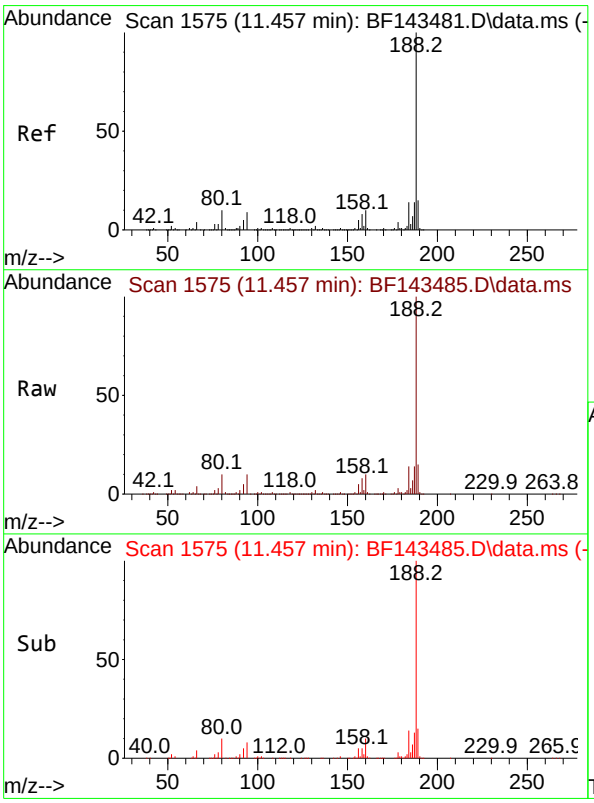
#63
Azobenzene
Concen: 39.982 ng
RT: 10.669 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Instrument :
BNA_F
ClientSampleId :
ICVBF082025

Tgt Ion: 77 Resp: 688082

Ion	Ratio	Lower	Upper
77	100		
182	28.2	6.2	46.2
105	22.2	2.2	42.2
51	32.3	12.4	52.4

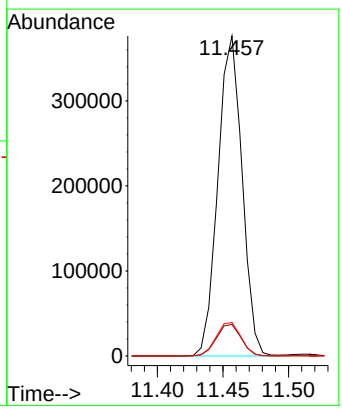


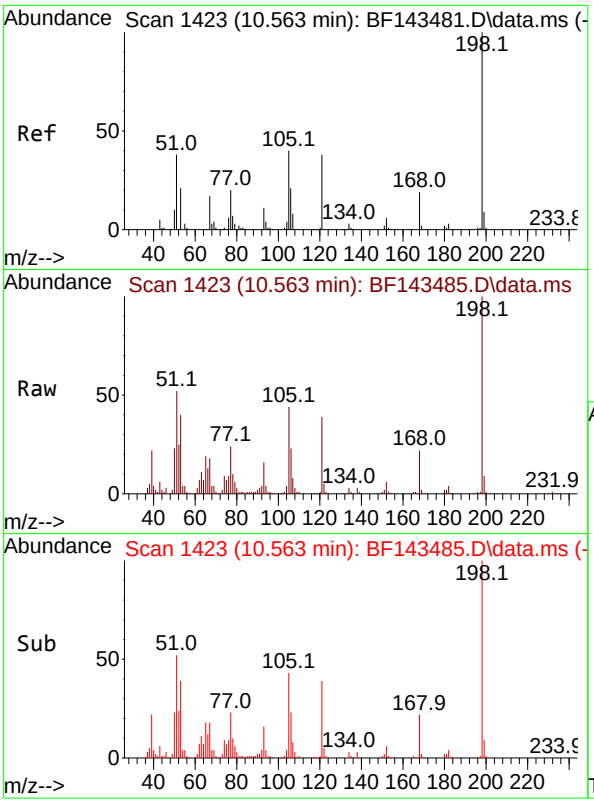


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.457 min Scan# 1575
Delta R.T. -0.000 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Tgt Ion:188 Resp: 481864

Ion	Ratio	Lower	Upper
188	100		
94	9.9	7.4	11.2
80	10.5	8.2	12.4



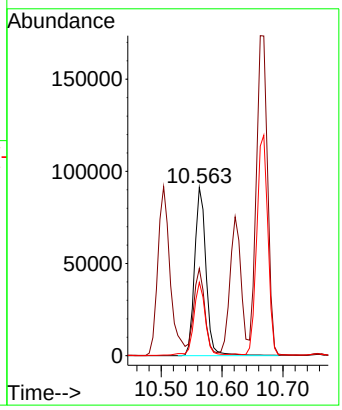


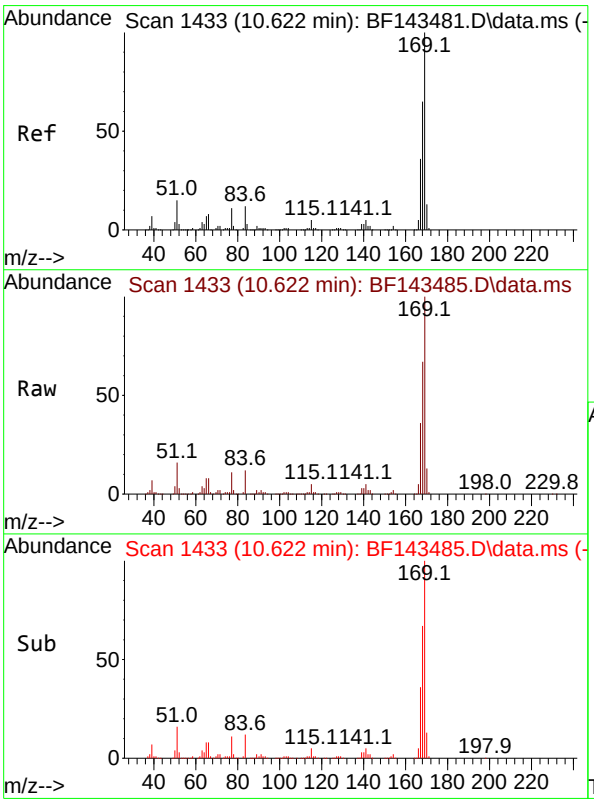
#65
4,6-Dinitro-2-methylphenol
Concen: 43.849 ng
RT: 10.563 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Instrument :
BNA_F
ClientSampleId :
ICVBF082025

Tgt Ion:198 Resp: 119136

Ion	Ratio	Lower	Upper
198	100		
51	51.9	29.6	69.6
105	43.6	21.5	61.5

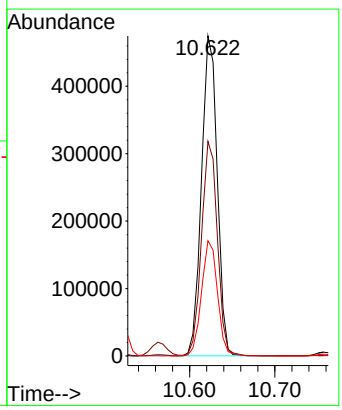


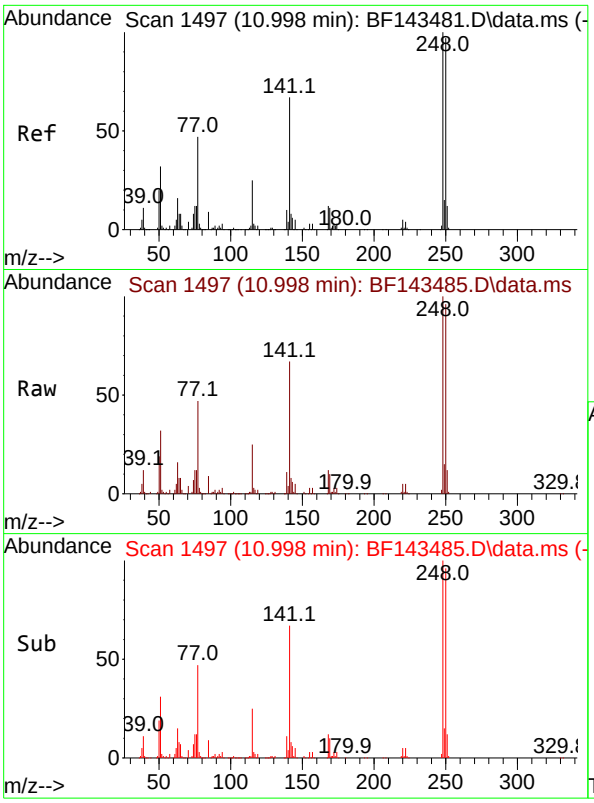


#66
n-Nitrosodiphenylamine
Concen: 39.212 ng
RT: 10.622 min Scan# 1433
Delta R.T. -0.006 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Tgt Ion:169 Resp: 608072

Ion	Ratio	Lower	Upper
169	100		
168	67.0	52.4	78.6
167	36.0	28.9	43.3



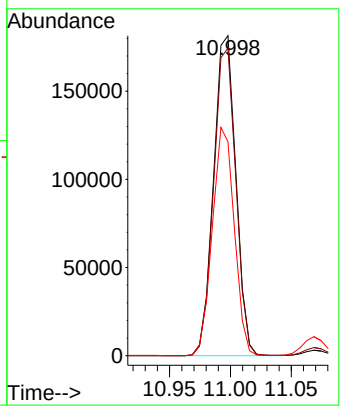


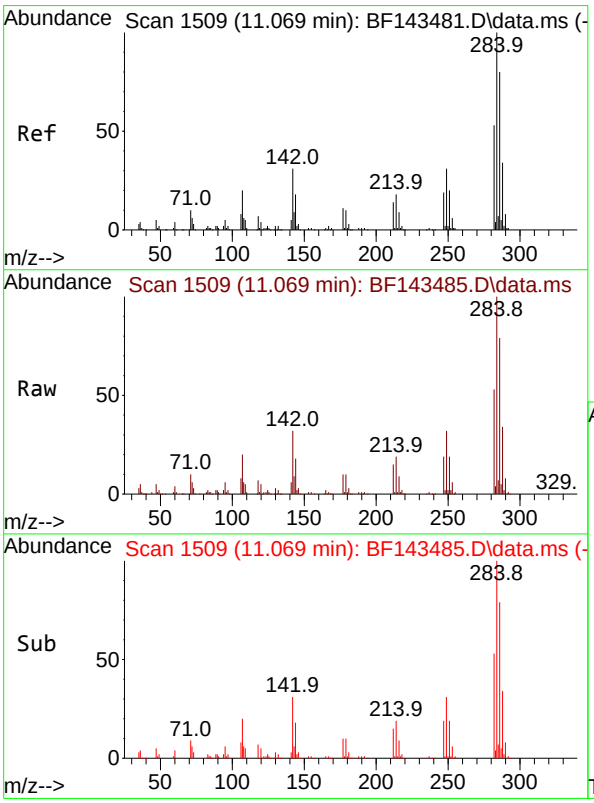
#67
4-Bromophenyl-phenylether
Concen: 40.305 ng
RT: 10.998 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Instrument :
BNA_F
ClientSampleId :
ICVBF082025

Tgt Ion:248 Resp: 231727

Ion	Ratio	Lower	Upper
248	100		
250	96.1	77.8	116.8
141	66.9	54.0	81.0

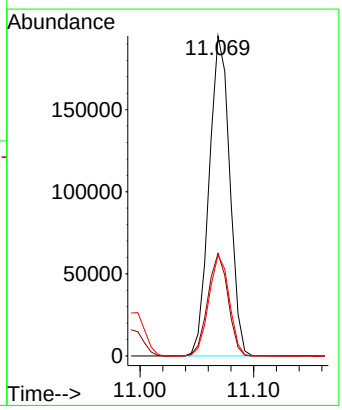


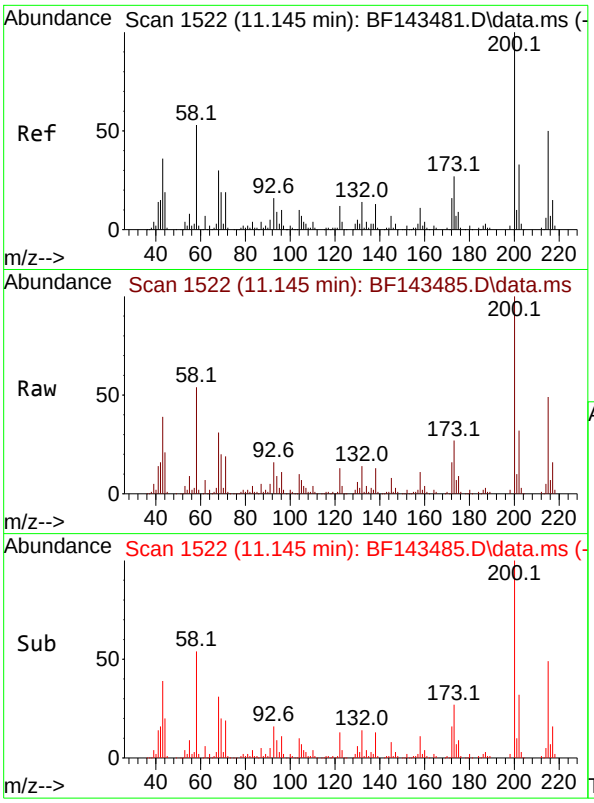


#68
Hexachlorobenzene
Concen: 39.544 ng
RT: 11.069 min Scan# 1509
Delta R.T. -0.006 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Tgt Ion:284 Resp: 245068

Ion	Ratio	Lower	Upper
284	100		
142	32.1	24.4	36.6
249	31.5	25.0	37.6



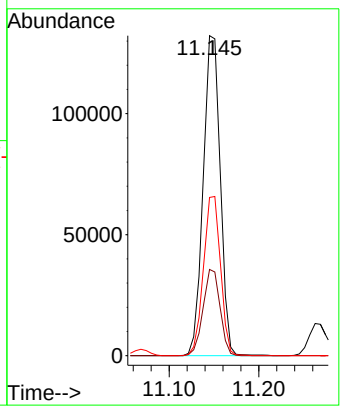


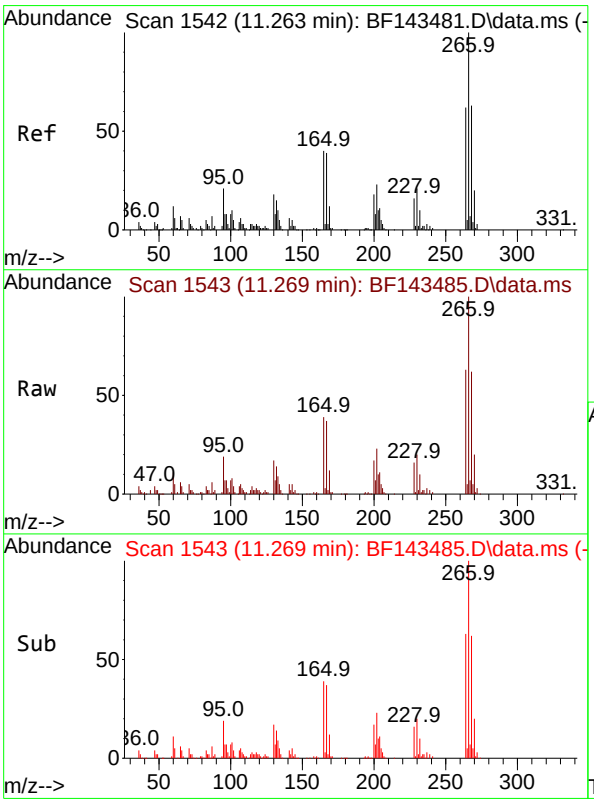
#69
Atrazine
Concen: 43.693 ng
RT: 11.145 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Instrument :
BNA_F
ClientSampleId :
ICVBF082025

Tgt Ion:200 Resp: 174902

Ion	Ratio	Lower	Upper
200	100		
173	27.0	6.9	46.9
215	49.5	30.0	70.0

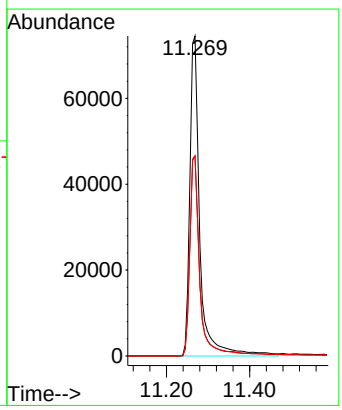


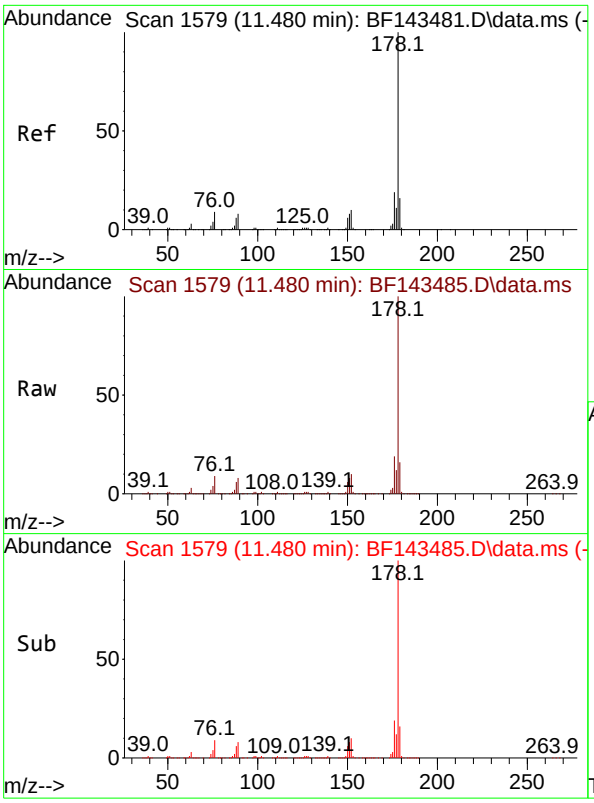


#70
Pentachlorophenol
Concen: 43.916 ng
RT: 11.269 min Scan# 1543
Delta R.T. -0.000 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Tgt Ion:266 Resp: 124649

Ion	Ratio	Lower	Upper
266	100		
268	62.5	50.5	75.7
264	62.5	49.8	74.8



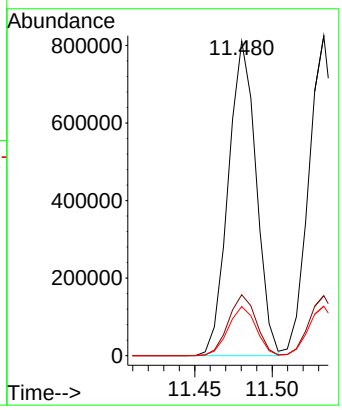


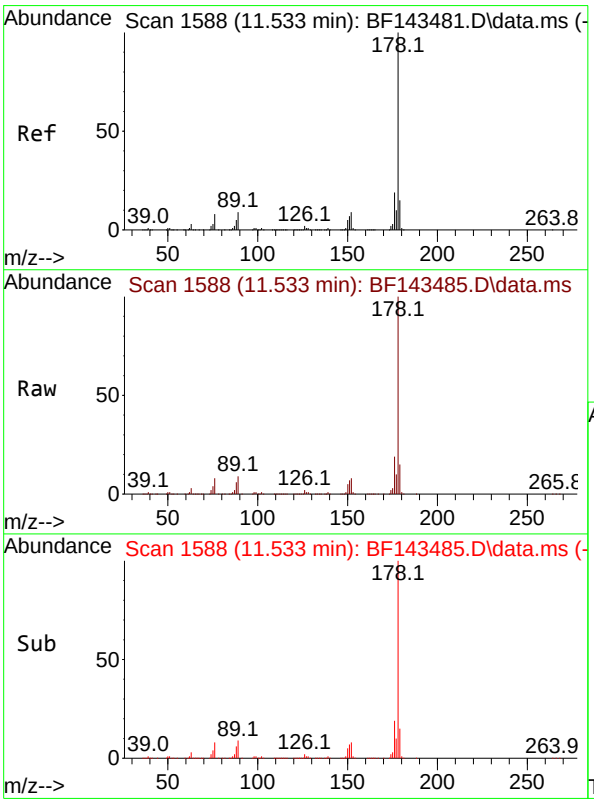
#71
Phenanthrene
Concen: 39.237 ng
RT: 11.480 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Instrument :
BNA_F
ClientSampleId :
ICVBF082025

Tgt Ion:178 Resp: 1012486

Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.5	23.3
179	15.6	12.5	18.7

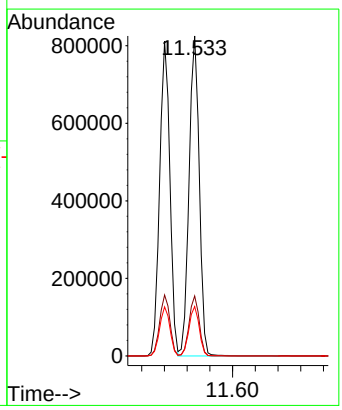


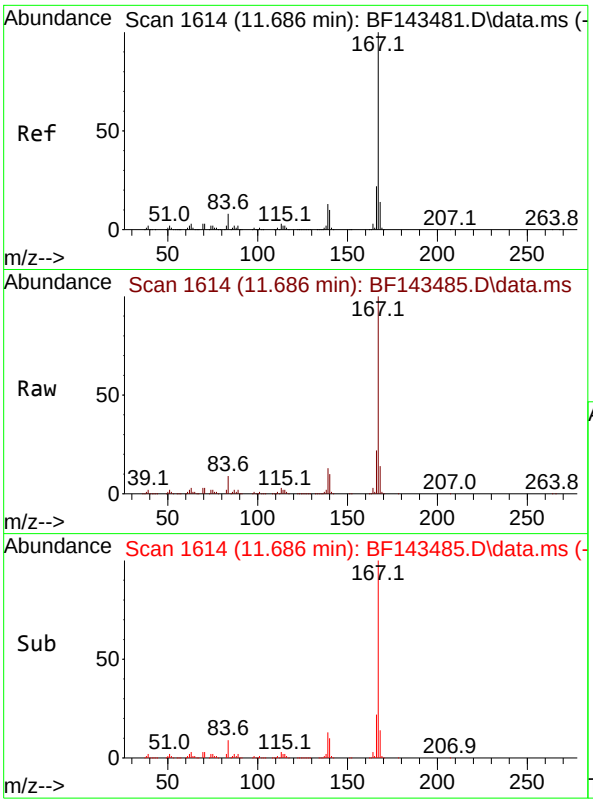


#72
Anthracene
Concen: 39.390 ng
RT: 11.533 min Scan# 1588
Delta R.T. -0.000 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Tgt Ion:178 Resp: 1029696

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.0	22.4
179	15.5	12.3	18.5



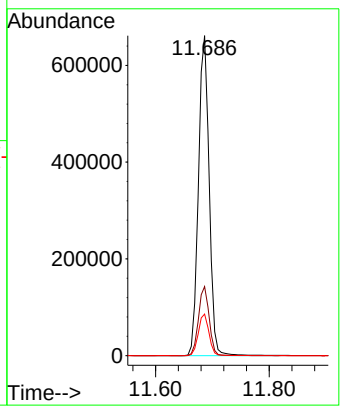


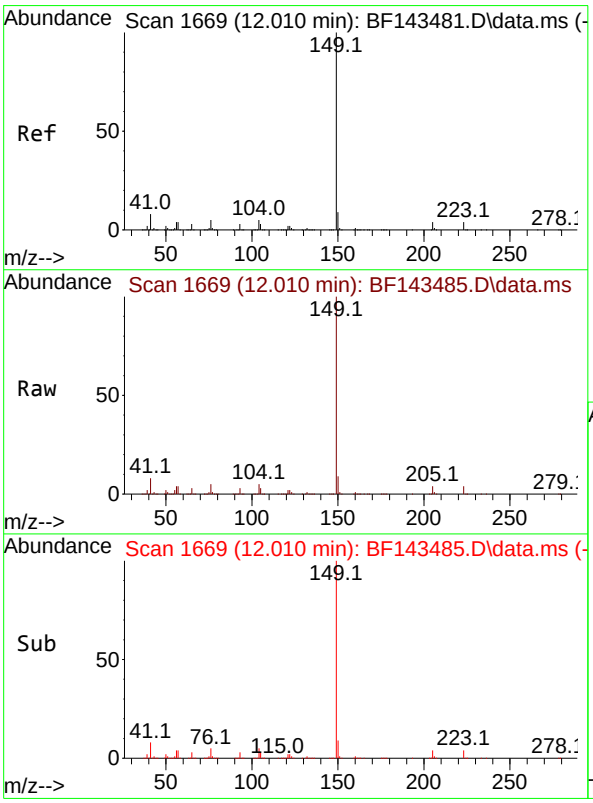
#73
Carbazole
Concen: 40.413 ng
RT: 11.686 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Instrument :
BNA_F
ClientSampleId :
ICVBF082025

Tgt Ion:167 Resp: 865651

Ion	Ratio	Lower	Upper
167	100		
166	21.6	17.3	25.9
139	13.0	10.0	15.0

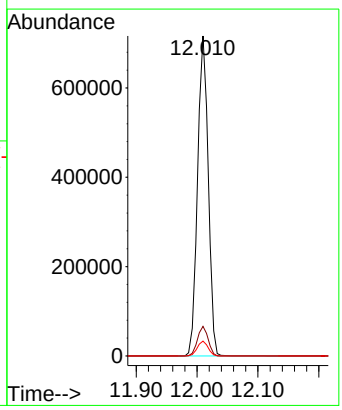


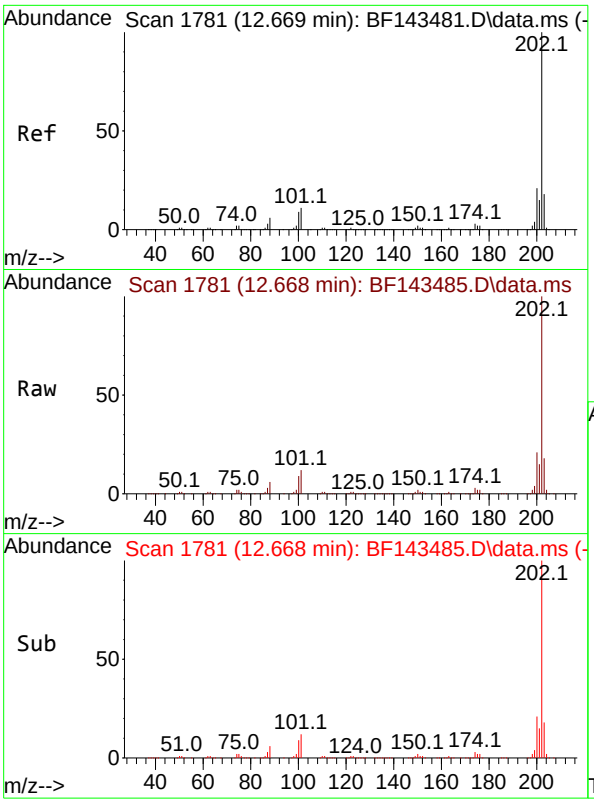


#74
Di-n-butylphthalate
Concen: 43.507 ng
RT: 12.010 min Scan# 1669
Delta R.T. -0.000 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Tgt Ion:149 Resp: 869364

Ion	Ratio	Lower	Upper
149	100		
150	9.3	7.2	10.8
104	4.7	3.6	5.4



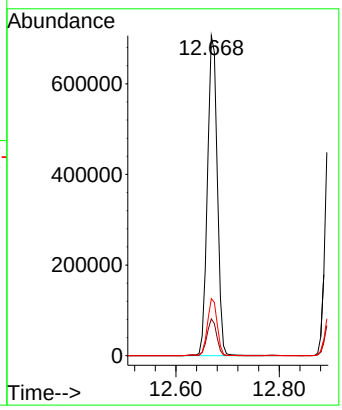


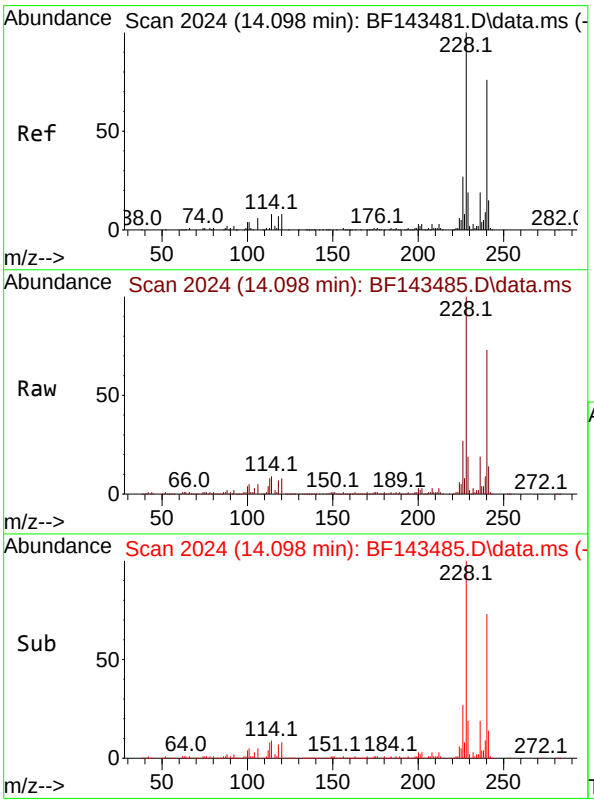
#75
Fluoranthene
Concen: 40.261 ng
RT: 12.668 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Instrument :
BNA_F
ClientSampleId :
ICVBF082025

Tgt Ion:202 Resp: 932217

Ion	Ratio	Lower	Upper
202	100		
101	11.5	0.0	31.3
203	17.8	0.0	37.9

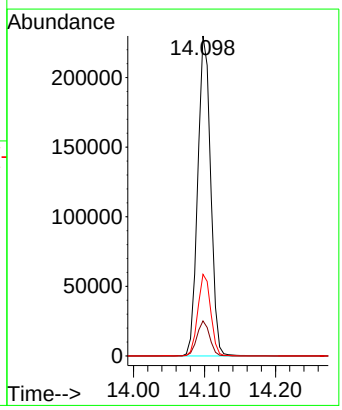


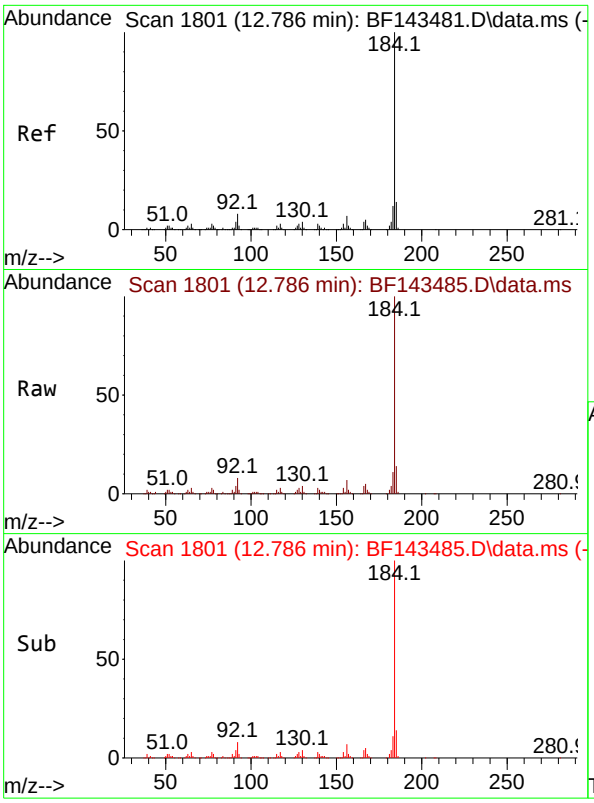


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.098 min Scan# 2024
Delta R.T. -0.006 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Tgt Ion:240 Resp: 290808

Ion	Ratio	Lower	Upper
240	100		
120	11.0	8.6	12.8
236	25.5	20.4	30.6



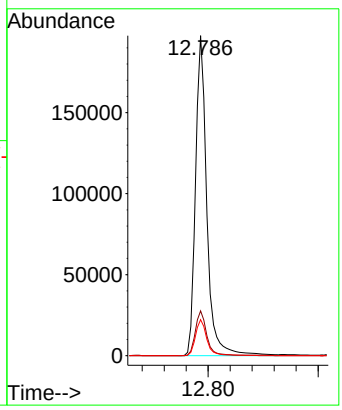


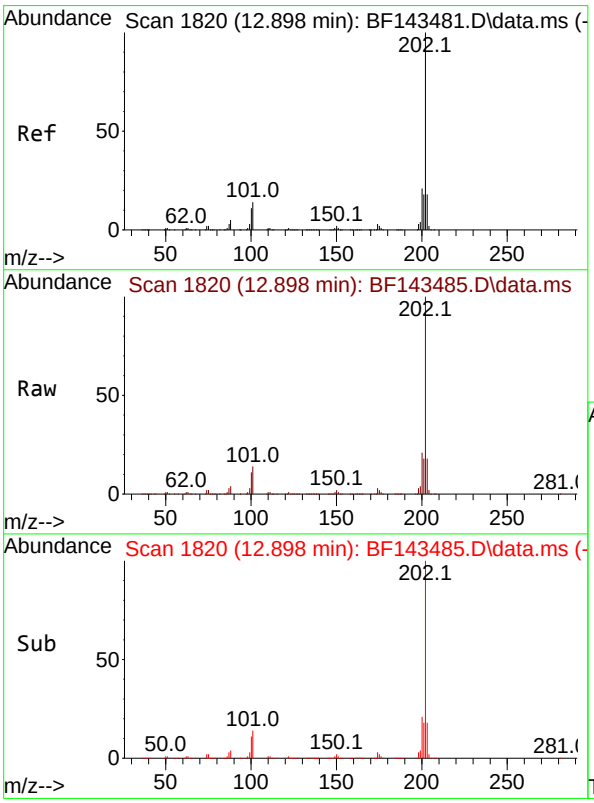
#77
Benzidine
Concen: 39.962 ng
RT: 12.786 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Instrument :
BNA_F
ClientSampleId :
ICVBF082025

Tgt Ion:184 Resp: 283076

Ion	Ratio	Lower	Upper
184	100		
185	14.0	11.3	16.9
183	11.3	9.5	14.3

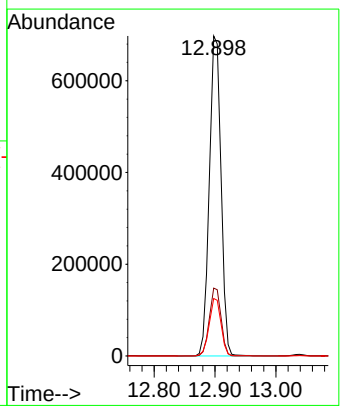


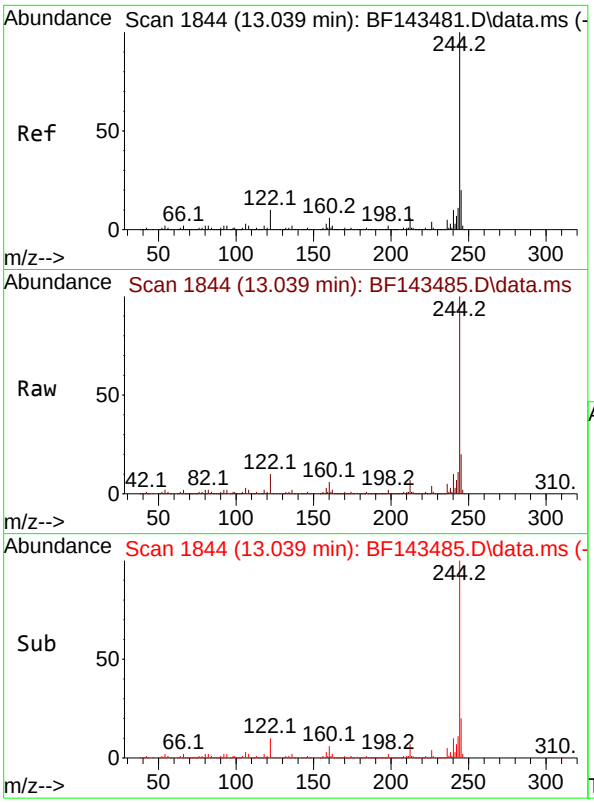


#78
Pyrene
Concen: 38.897 ng
RT: 12.898 min Scan# 1820
Delta R.T. -0.006 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Tgt Ion:202 Resp: 930449

Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.0	25.4
203	17.9	14.3	21.5



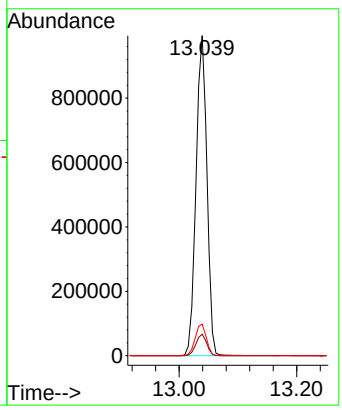


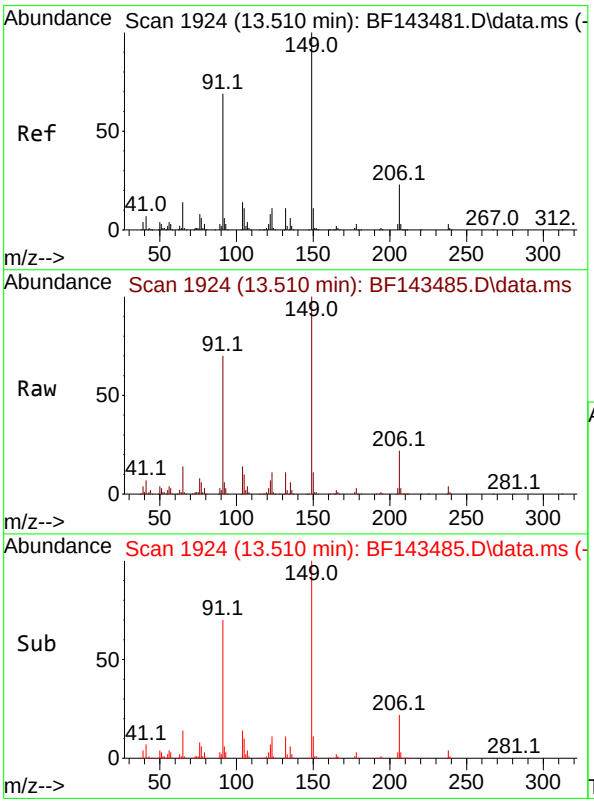
#79
Terphenyl-d14
Concen: 76.705 ng
RT: 13.039 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Instrument :
BNA_F
ClientSampleId :
ICVBF082025

Tgt Ion:244 Resp: 1278285

Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.2	7.8
122	9.8	7.9	11.9

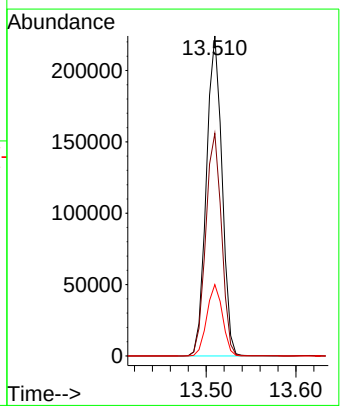


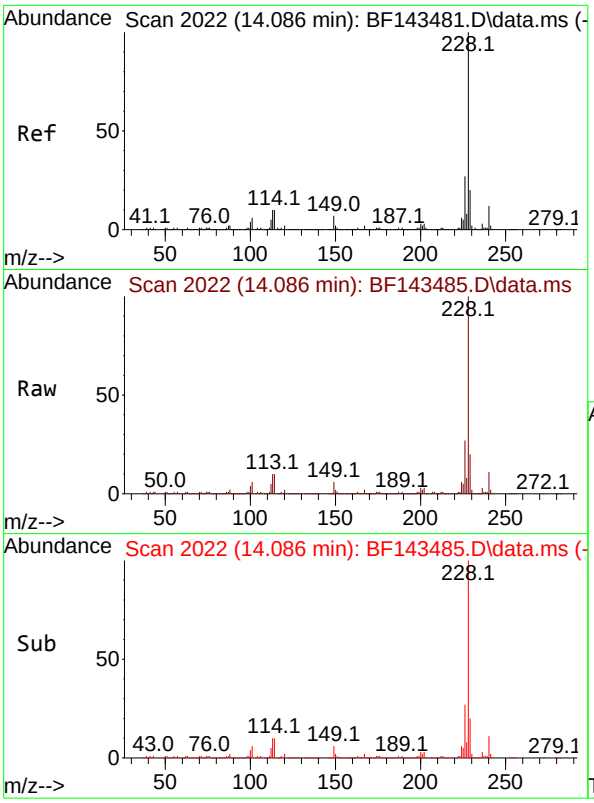


#80
Butylbenzylphthalate
Concen: 41.549 ng
RT: 13.510 min Scan# 1924
Delta R.T. -0.000 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Tgt Ion:149 Resp: 271515

Ion	Ratio	Lower	Upper
149	100		
91	69.5	55.3	82.9
206	22.3	18.2	27.4



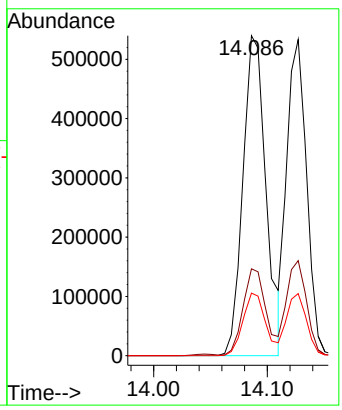


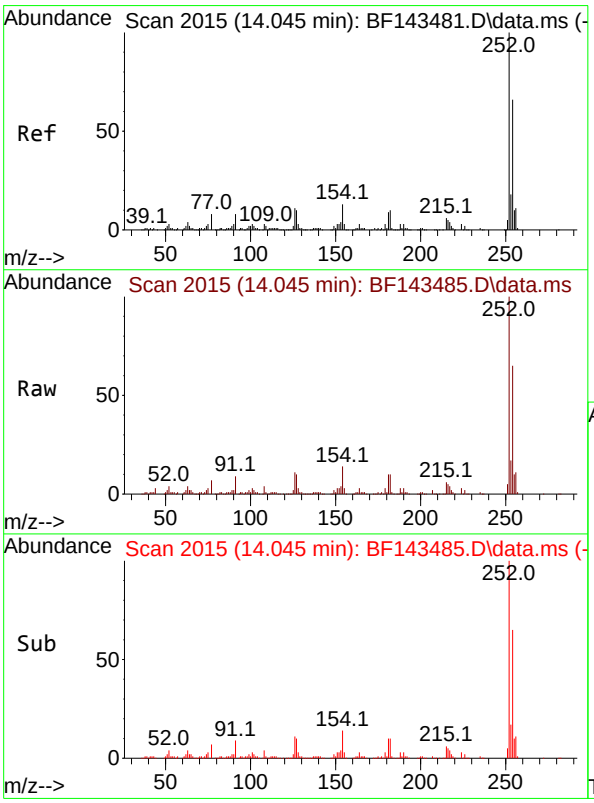
#81
Benzo(a)anthracene
Concen: 40.783 ng
RT: 14.086 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Instrument :
BNA_F
ClientSampleId :
ICVBF082025

Tgt Ion:228 Resp: 763549

Ion	Ratio	Lower	Upper
228	100		
226	27.2	21.7	32.5
229	19.6	15.7	23.5

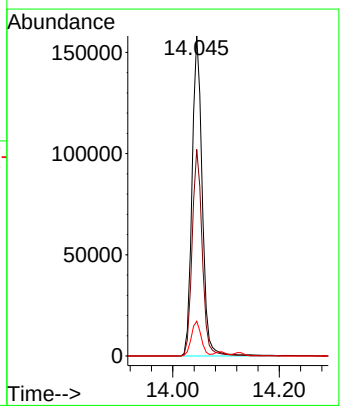


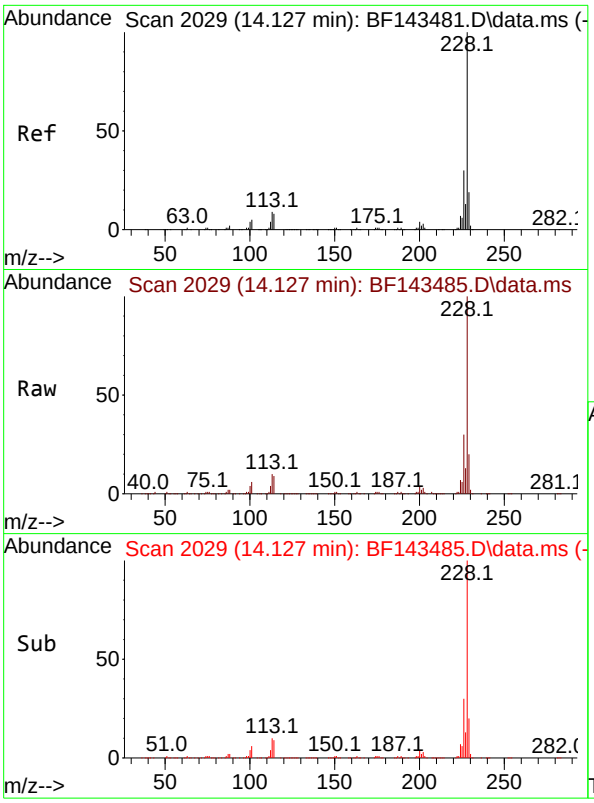


#82
3,3'-Dichlorobenzidine
Concen: 38.975 ng
RT: 14.045 min Scan# 2015
Delta R.T. -0.000 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Tgt Ion:252 Resp: 208975

Ion	Ratio	Lower	Upper
252	100		
254	64.5	52.6	79.0
126	10.8	8.7	13.1



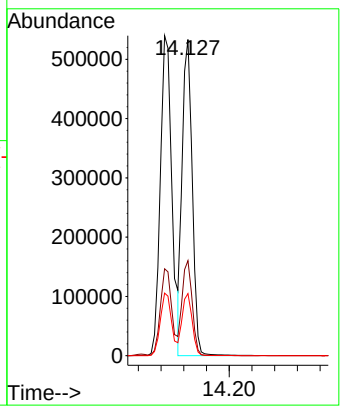


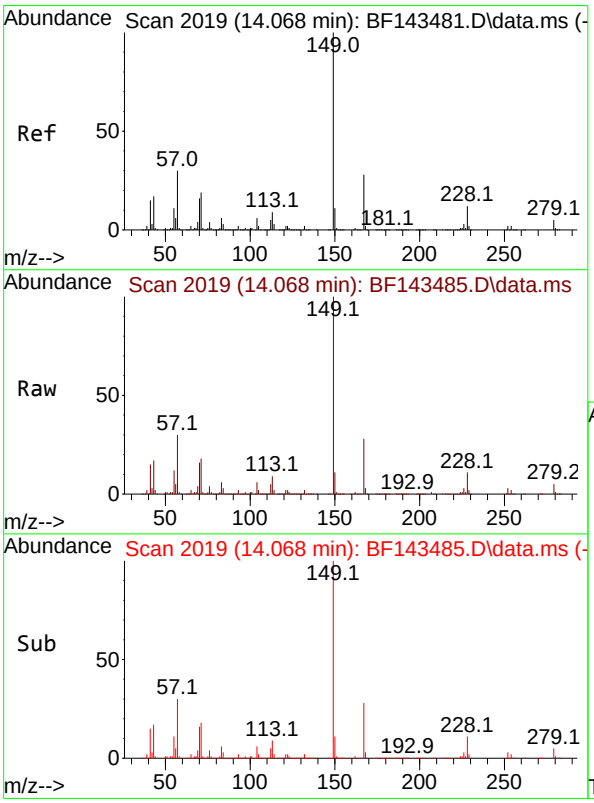
#83
Chrysene
Concen: 38.711 ng
RT: 14.127 min Scan# 2(
Delta R.T. -0.000 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Instrument :
BNA_F
ClientSampleId :
ICVBF082025

Tgt Ion:228 Resp: 651325

Ion	Ratio	Lower	Upper
228	100		
226	30.1	23.7	35.5
229	19.6	15.7	23.5

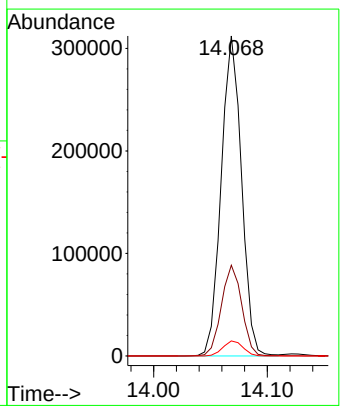


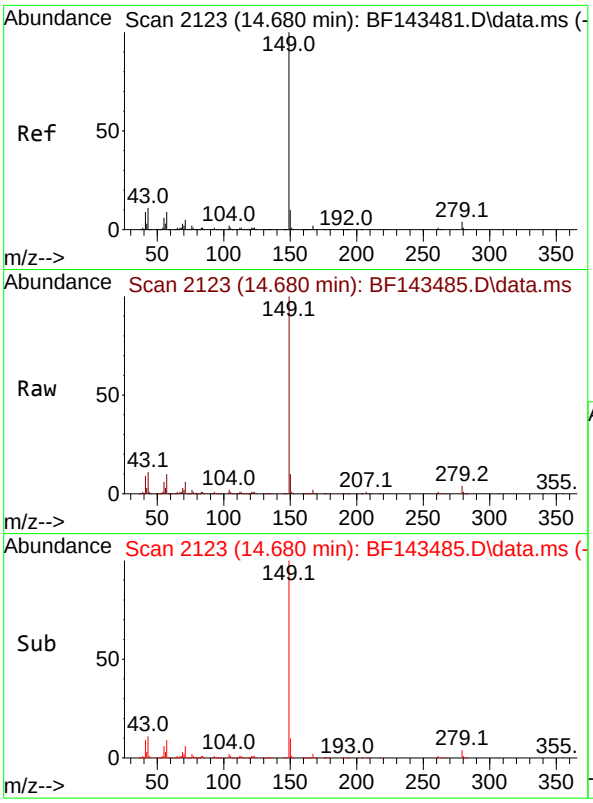


#84
Bis(2-ethylhexyl)phthalate
Concen: 38.990 ng
RT: 14.068 min Scan# 2019
Delta R.T. -0.000 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Tgt Ion:149 Resp: 388068

Ion	Ratio	Lower	Upper
149	100		
167	28.4	22.2	33.2
279	4.7	3.6	5.4



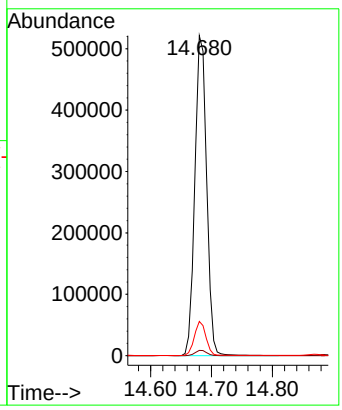


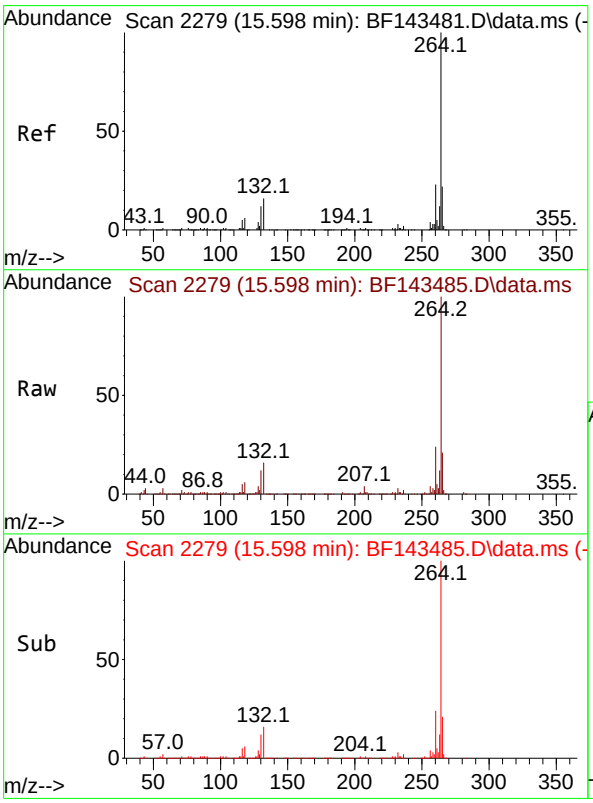
#85
Di-n-octyl phthalate
Concen: 37.975 ng
RT: 14.680 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Instrument :
BNA_F
ClientSampleId :
ICVBF082025

Tgt Ion:149 Resp: 700201

Ion	Ratio	Lower	Upper
149	100		
167	1.7	1.2	1.8
43	10.5	8.5	12.7

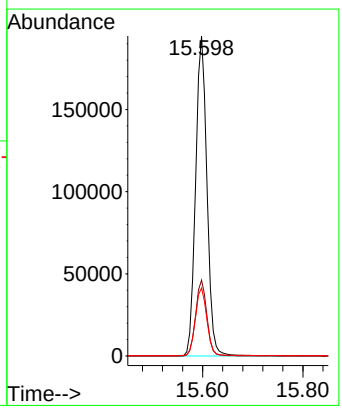


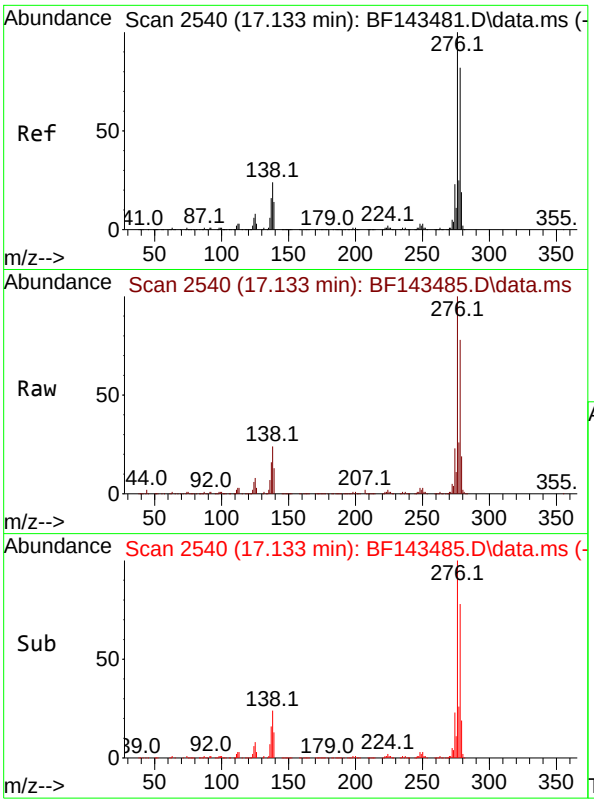


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.598 min Scan# 2279
Delta R.T. -0.000 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Tgt Ion:264 Resp: 304631

Ion	Ratio	Lower	Upper
264	100		
260	23.7	18.7	28.1
265	21.2	17.6	26.4



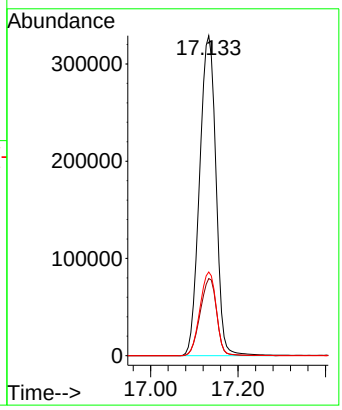


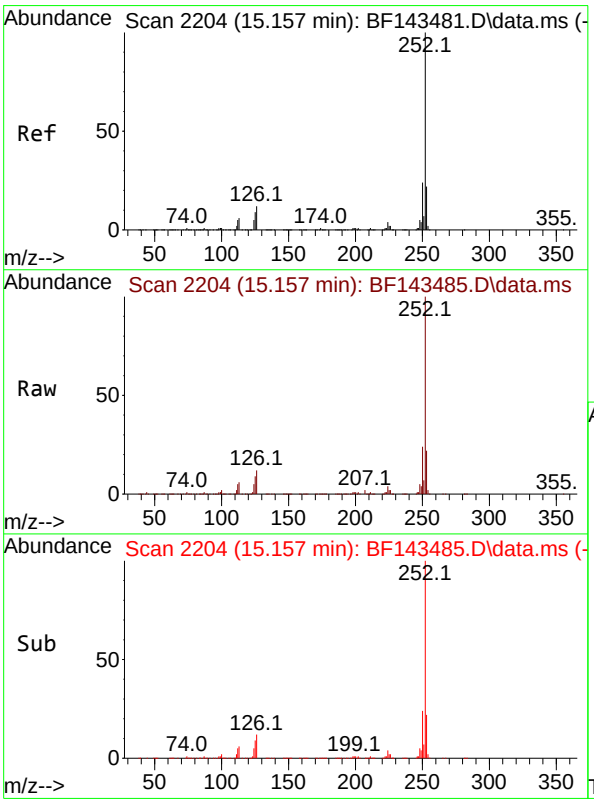
#87
Indeno(1,2,3-cd)pyrene
Concen: 39.281 ng
RT: 17.133 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Instrument :
BNA_F
ClientSampleId :
ICVBF082025

Tgt Ion:276 Resp: 859881

Ion	Ratio	Lower	Upper
276	100		
138	24.2	19.2	28.8
277	26.1	20.3	30.5

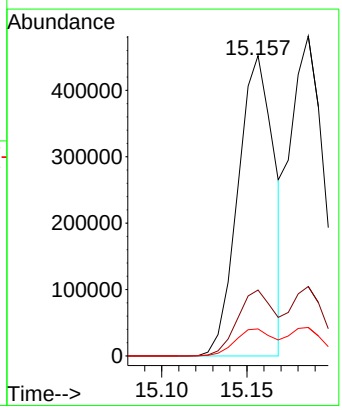


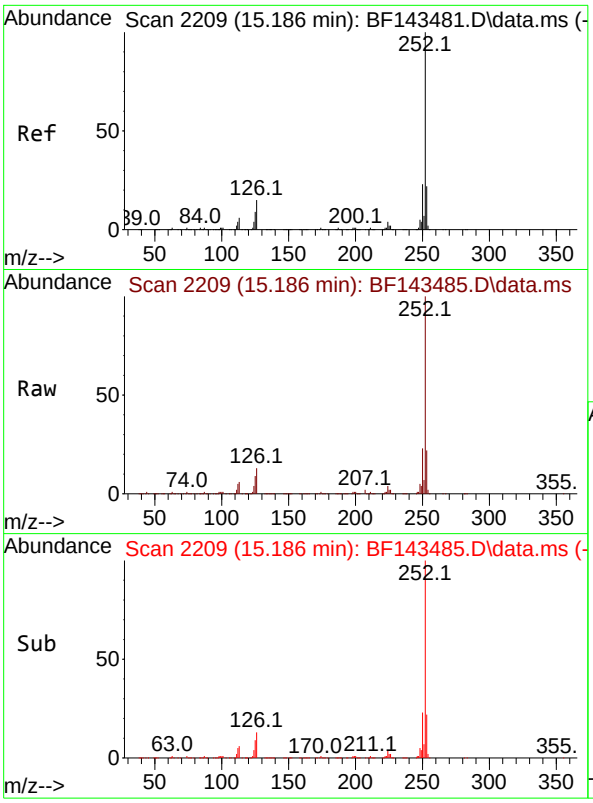


#88
Benzo(b)fluoranthene
Concen: 39.433 ng
RT: 15.157 min Scan# 2204
Delta R.T. -0.000 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Tgt Ion:252 Resp: 667733

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.5	26.3
125	9.0	7.4	11.0



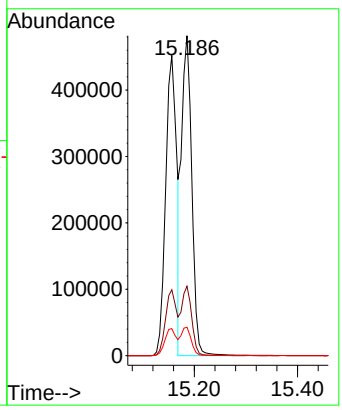


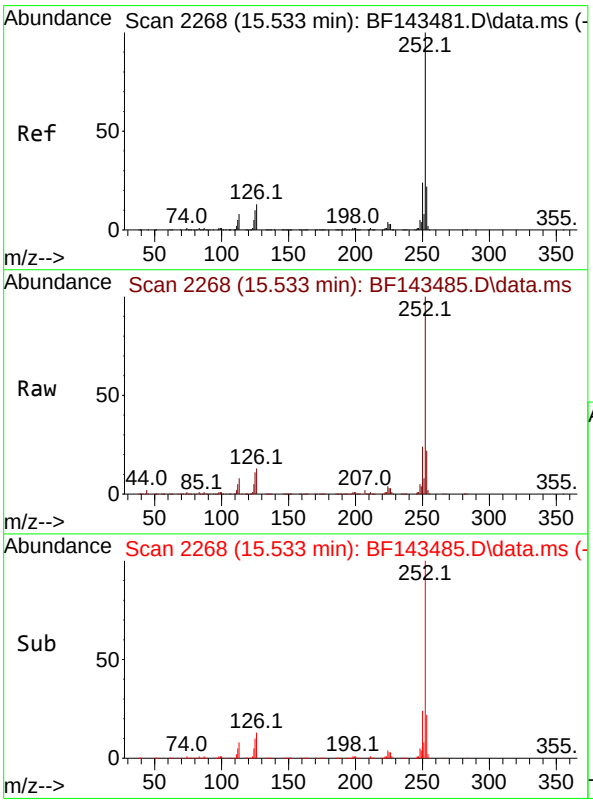
#89
Benzo(k)fluoranthene
Concen: 40.992 ng
RT: 15.186 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Instrument :
BNA_F
ClientSampleId :
ICVBF082025

Tgt Ion:252 Resp: 664593

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.4	26.2
125	8.9	7.4	11.0

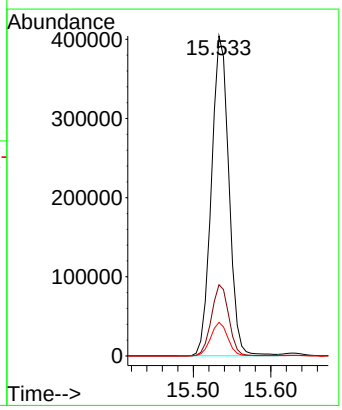


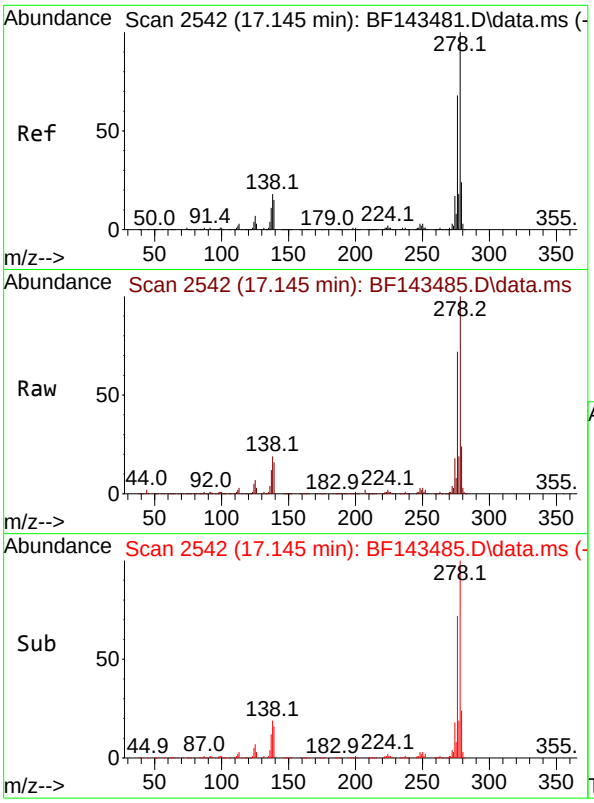


#90
Benzo(a)pyrene
Concen: 40.208 ng
RT: 15.533 min Scan# 2268
Delta R.T. -0.006 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Tgt Ion:252 Resp: 631989

Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.4	26.0
125	10.5	8.2	12.2



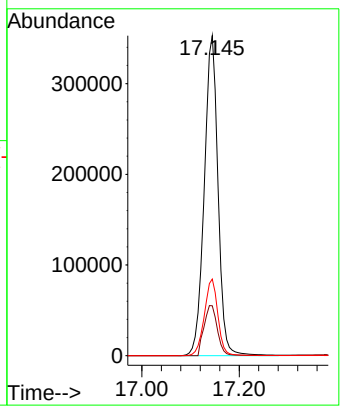


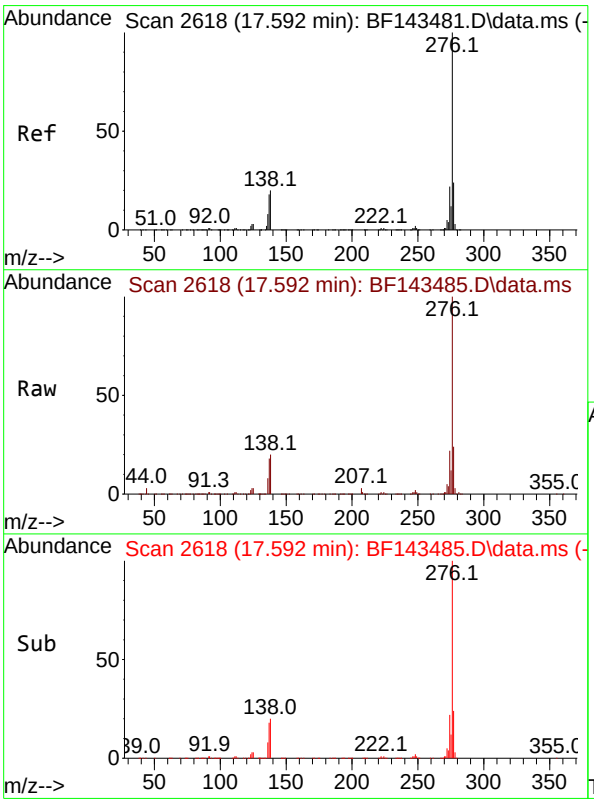
#91
Dibenzo(a,h)anthracene
Concen: 39.378 ng
RT: 17.145 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Instrument :
BNA_F
ClientSampleId :
ICVBF082025

Tgt Ion:278 Resp: 690364

Ion	Ratio	Lower	Upper
278	100		
139	15.6	12.1	18.1
279	23.9	19.2	28.8

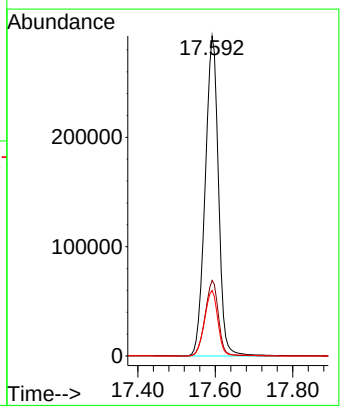




#92
Benzo(g,h,i)perylene
Concen: 39.992 ng
RT: 17.592 min Scan# 2618
Delta R.T. -0.012 min
Lab File: BF143485.D
Acq: 20 Aug 2025 15:16

Tgt Ion:276 Resp: 697169

Ion	Ratio	Lower	Upper
276	100		
277	23.6	18.9	28.3
138	20.4	16.3	24.5



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082025\
Data File : BF143485.D
Acq On : 20 Aug 2025 15:16
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF082025

Quant Time: Aug 20 16:24:07 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 20 15:07:46 2025
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	107	0.00
2		1,4-Dioxane	0.531	0.520	2.1	104	0.00
3		Pyridine	1.413	1.427	-1.0	106	0.00
4		n-Nitrosodimethylamine	0.635	0.648	-2.0	108	-0.02
5	S	2-Fluorophenol	1.145	1.142	0.3	107	0.00
6		Aniline	1.890	1.912	-1.2	108	0.00
7	S	Phenol-d6	1.414	1.400	1.0	107	-0.01
8		2-Chlorophenol	1.265	1.272	-0.6	107	0.00
9		Benzaldehyde	1.145	1.212	-5.9	108	0.00
10	C	Phenol	1.629	1.653	-1.5	107	0.00
11		bis(2-Chloroethyl)ether	1.217	1.218	-0.1	107	0.00
12		1,3-Dichlorobenzene	1.421	1.411	0.7	107	0.00
13	C	1,4-Dichlorobenzene	1.426	1.406	1.4	107	0.00
14		1,2-Dichlorobenzene	1.350	1.342	0.6	107	0.00
15		Benzyl Alcohol	1.059	1.090	-2.9	108	0.00
16		2,2'-oxybis(1-Chloropropane	1.947	1.949	-0.1	107	0.00
17		2-Methylphenol	1.015	1.033	-1.8	109	0.00
18		Hexachloroethane	0.485	0.492	-1.4	107	0.00
19	P	n-Nitroso-di-n-propylamine	0.864	0.854	1.2	108	-0.01
20		3+4-Methylphenols	1.212	1.229	-1.4	108	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	107	0.00
22		Acetophenone	0.432	0.421	2.5	108	0.00
23	S	Nitrobenzene-d5	0.343	0.345	-0.6	108	0.00
24		Nitrobenzene	0.353	0.358	-1.4	108	0.00
25		Isophorone	0.628	0.634	-1.0	110	0.00
26	C	2-Nitrophenol	0.173	0.180	-4.0	109	0.00
27		2,4-Dimethylphenol	0.269	0.267	0.7	106	0.00
28		bis(2-Chloroethoxy)methane	0.386	0.388	-0.5	108	0.00
29	C	2,4-Dichlorophenol	0.288	0.289	-0.3	108	0.00
30		1,2,4-Trichlorobenzene	0.296	0.291	1.7	107	0.00
31		Naphthalene	0.960	0.937	2.4	107	0.00
32		Benzoic acid	0.137	0.155	-13.1	115	-0.02
33		4-Chloroaniline	0.341	0.343	-0.6	107	0.00
34	C	Hexachlorobutadiene	0.193	0.191	1.0	107	0.00
35		Caprolactam	0.069	0.077	-11.6	117	-0.02
36	C	4-Chloro-3-methylphenol	0.288	0.292	-1.4	109	0.00
37		2-Methylnaphthalene	0.641	0.623	2.8	106	0.00
38		1-Methylnaphthalene	0.613	0.602	1.8	107	0.00
39	I	Acenaphthene-d10	1.000	1.000	0.0	109	0.00
40		1,2,4,5-Tetrachlorobenzene	0.572	0.555	3.0	107	0.00
41	P	Hexachlorocyclopentadiene	0.184	0.201	-9.2	110	0.00
42	S	2,4,6-Tribromophenol	0.186	0.188	-1.1	109	0.00
43	C	2,4,6-Trichlorophenol	0.352	0.362	-2.8	108	0.00
44		2,4,5-Trichlorophenol	0.385	0.377	2.1	107	0.00
45	S	2-Fluorobiphenyl	1.210	1.154	4.6	108	0.00
46		1,1'-Biphenyl	1.420	1.384	2.5	108	0.00
47		2-Chloronaphthalene	1.114	1.088	2.3	107	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082025\
Data File : BF143485.D
Acq On : 20 Aug 2025 15:16
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF082025

Quant Time: Aug 20 16:24:07 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 20 15:07:46 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	0.326	0.341	-4.6	110	0.00
49		Acenaphthylene	1.595	1.577	1.1	108	0.00
50		Dimethylphthalate	1.205	1.233	-2.3	112	0.00
51		2,6-Dinitrotoluene	0.250	0.265	-6.0	111	0.00
52	C	Acenaphthene	1.083	1.081	0.2	109	0.00
53		3-Nitroaniline	0.270	0.287	-6.3	112	0.00
54	P	2,4-Dinitrophenol	0.115	0.137	-19.1	125	0.00
55		Dibenzofuran	1.544	1.506	2.5	107	0.00
56	P	4-Nitrophenol	0.161	0.186	-15.5	118	0.00
57		2,4-Dinitrotoluene	0.333	0.360	-8.1	111	0.00
58		Fluorene	1.188	1.156	2.7	108	0.00
59		2,3,4,6-Tetrachlorophenol	0.286	0.305	-6.6	112	0.00
60		Diethylphthalate	1.080	1.126	-4.3	113	0.00
61		4-Chlorophenyl-phenylether	0.594	0.583	1.9	108	0.00
62		4-Nitroaniline	0.248	0.272	-9.7	115	0.00
63		Azobenzene	1.120	1.119	0.1	108	0.00
64	I	Phenanthrene-d10	1.000	1.000	0.0	110	0.00
65		4,6-Dinitro-2-methylphenol	0.113	0.124	-9.7	115	0.00
66	c	n-Nitrosodiphenylamine	0.644	0.631	2.0	109	0.00
67		4-Bromophenyl-phenylether	0.239	0.240	-0.4	110	0.00
68		Hexachlorobenzene	0.257	0.254	1.2	109	0.00
69		Atrazine	0.166	0.181	-9.0	119	0.00
70	C	Pentachlorophenol	0.118	0.129	-9.3	115	0.00
71		Phenanthrene	1.071	1.051	1.9	112	0.00
72		Anthracene	1.085	1.068	1.6	110	0.00
73		Carbazole	0.889	0.898	-1.0	112	0.00
74		Di-n-butylphthalate	0.829	0.902	-8.8	117	0.00
75	C	Fluoranthene	0.961	0.967	-0.6	113	0.00
76	I	Chrysene-d12	1.000	1.000	0.0	116	0.00
77		Benzidine	0.487	0.487	0.0	110	0.00
78		Pyrene	1.645	1.600	2.7	114	0.00
79	S	Terphenyl-d14	1.146	1.099	4.1	113	0.00
80		Butylbenzylphthalate	0.449	0.467	-4.0	116	0.00
81		Benzo(a)anthracene	1.288	1.313	-1.9	116	0.00
82		3,3'-Dichlorobenzidine	0.369	0.359	2.7	112	0.00
83		Chrysene	1.157	1.120	3.2	117	0.00
84		Bis(2-ethylhexyl)phthalate	0.685	0.667	2.6	109	0.00
85	c	Di-n-octyl phthalate	1.268	1.204	5.0	108	0.00
86	I	Perylene-d12	1.000	1.000	0.0	106	0.00
87		Indeno(1,2,3-cd)pyrene	1.437	1.411	1.8	103	0.00
88		Benzo(b)fluoranthene	1.112	1.096	1.4	108	0.00
89		Benzo(k)fluoranthene	1.064	1.091	-2.5	107	0.00
90	C	Benzo(a)pyrene	1.032	1.037	-0.5	106	0.00
91		Dibenzo(a,h)anthracene	1.151	1.133	1.6	103	-0.01
92		Benzo(g,h,i)perylene	1.145	1.144	0.1	105	-0.01

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082025\
Data File : BF143485.D
Acq On : 20 Aug 2025 15:16
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF082025

Quant Time: Aug 20 16:24:07 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 20 15:07:46 2025
Response via : Initial Calibration

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

Compound	AvgRF	CCRF	%Dev Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082025\
Data File : BF143485.D
Acq On : 20 Aug 2025 15:16
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Quant Time: Aug 20 16:24:07 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	20.000	20.000	0.0	107	0.00
2		1,4-Dioxane	40.000	39.182	2.0	104	0.00
3		Pyridine	40.000	40.378	-0.9	106	0.00
4		n-Nitrosodimethylamine	40.000	40.802	-2.0	108	-0.02
5	S	2-Fluorophenol	80.000	79.796	0.3	107	0.00
6		Aniline	40.000	40.468	-1.2	108	0.00
7	S	Phenol-d6	80.000	79.236	1.0	107	-0.01
8		2-Chlorophenol	40.000	40.225	-0.6	107	0.00
9		Benzaldehyde	40.000	42.346	-5.9	108	0.00
10	C	Phenol	40.000	40.587	-1.5	107	0.00
11		bis(2-Chloroethyl)ether	40.000	40.011	-0.0	107	0.00
12		1,3-Dichlorobenzene	40.000	39.721	0.7	107	0.00
13	C	1,4-Dichlorobenzene	40.000	39.445	1.4	107	0.00
14		1,2-Dichlorobenzene	40.000	39.765	0.6	107	0.00
15		Benzyl Alcohol	40.000	41.185	-3.0	108	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	40.039	-0.1	107	0.00
17		2-Methylphenol	40.000	40.687	-1.7	109	0.00
18		Hexachloroethane	40.000	40.592	-1.5	107	0.00
19	P	n-Nitroso-di-n-propylamine	40.000	39.547	1.1	108	-0.01
20		3+4-Methylphenols	40.000	40.559	-1.4	108	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	107	0.00
22		Acetophenone	40.000	38.990	2.5	108	0.00
23	S	Nitrobenzene-d5	80.000	80.608	-0.8	108	0.00
24		Nitrobenzene	40.000	40.579	-1.4	108	0.00
25		Isophorone	40.000	40.343	-0.9	110	0.00
26	C	2-Nitrophenol	40.000	41.747	-4.4	109	0.00
27		2,4-Dimethylphenol	40.000	39.655	0.9	106	0.00
28		bis(2-Chloroethoxy)methane	40.000	40.210	-0.5	108	0.00
29	C	2,4-Dichlorophenol	40.000	40.217	-0.5	108	0.00
30		1,2,4-Trichlorobenzene	40.000	39.404	1.5	107	0.00
31		Naphthalene	40.000	39.033	2.4	107	0.00
32		Benzoic acid	40.000	41.489	-3.7	115	-0.02
33		4-Chloroaniline	40.000	40.234	-0.6	107	0.00
34	C	Hexachlorobutadiene	40.000	39.523	1.2	107	0.00
35		Caprolactam	40.000	44.838	-12.1	117	-0.02
36	C	4-Chloro-3-methylphenol	40.000	40.569	-1.4	109	0.00
37		2-Methylnaphthalene	40.000	38.877	2.8	106	0.00
38		1-Methylnaphthalene	40.000	39.260	1.9	107	0.00
39	I	Acenaphthene-d10	20.000	20.000	0.0	109	0.00
40		1,2,4,5-Tetrachlorobenzene	40.000	38.786	3.0	107	0.00
41	P	Hexachlorocyclopentadiene	40.000	39.756	0.6	110	0.00
42	S	2,4,6-Tribromophenol	80.000	80.753	-0.9	109	0.00
43	C	2,4,6-Trichlorophenol	40.000	41.105	-2.8	108	0.00
44		2,4,5-Trichlorophenol	40.000	39.178	2.1	107	0.00
45	S	2-Fluorobiphenyl	80.000	76.290	4.6	108	0.00
46		1,1'-Biphenyl	40.000	38.997	2.5	108	0.00
47		2-Chloronaphthalene	40.000	39.068	2.3	107	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082025\
Data File : BF143485.D
Acq On : 20 Aug 2025 15:16
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF082025

Quant Time: Aug 20 16:24:07 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 20 15:07:46 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	41.861	-4.7	110	0.00
49		Acenaphthylene	40.000	39.557	1.1	108	0.00
50		Dimethylphthalate	40.000	40.935	-2.3	112	0.00
51		2,6-Dinitrotoluene	40.000	42.459	-6.1	111	0.00
52	C	Acenaphthene	40.000	39.941	0.1	109	0.00
53		3-Nitroaniline	40.000	42.506	-6.3	112	0.00
54	P	2,4-Dinitrophenol	40.000	43.761	-9.4	125	0.00
55		Dibenzofuran	40.000	39.023	2.4	107	0.00
56	P	4-Nitrophenol	40.000	46.387	-16.0	118	0.00
57		2,4-Dinitrotoluene	40.000	43.183	-8.0	111	0.00
58		Fluorene	40.000	38.901	2.7	108	0.00
59		2,3,4,6-Tetrachlorophenol	40.000	42.767	-6.9	112	0.00
60		Diethylphthalate	40.000	41.708	-4.3	113	0.00
61		4-Chlorophenyl-phenylether	40.000	39.269	1.8	108	0.00
62		4-Nitroaniline	40.000	43.927	-9.8	115	0.00
63		Azobenzene	40.000	39.982	0.0	108	0.00
64	I	Phenanthrene-d10	20.000	20.000	0.0	110	0.00
65		4,6-Dinitro-2-methylphenol	40.000	43.849	-9.6	115	0.00
66	c	n-Nitrosodiphenylamine	40.000	39.212	2.0	109	0.00
67		4-Bromophenyl-phenylether	40.000	40.305	-0.8	110	0.00
68		Hexachlorobenzene	40.000	39.544	1.1	109	0.00
69		Atrazine	40.000	43.693	-9.2	119	0.00
70	C	Pentachlorophenol	40.000	43.916	-9.8	115	0.00
71		Phenanthrene	40.000	39.237	1.9	112	0.00
72		Anthracene	40.000	39.390	1.5	110	0.00
73		Carbazole	40.000	40.413	-1.0	112	0.00
74		Di-n-butylphthalate	40.000	43.507	-8.8	117	0.00
75	C	Fluoranthene	40.000	40.261	-0.7	113	0.00
76	I	Chrysene-d12	20.000	20.000	0.0	116	0.00
77		Benzidine	40.000	39.962	0.1	110	0.00
78		Pyrene	40.000	38.897	2.8	114	0.00
79	S	Terphenyl-d14	80.000	76.705	4.1	113	0.00
80		Butylbenzylphthalate	40.000	41.549	-3.9	116	0.00
81		Benzo(a)anthracene	40.000	40.783	-2.0	116	0.00
82		3,3'-Dichlorobenzidine	40.000	38.975	2.6	112	0.00
83		Chrysene	40.000	38.711	3.2	117	0.00
84		Bis(2-ethylhexyl)phthalate	40.000	38.990	2.5	109	0.00
85	c	Di-n-octyl phthalate	40.000	37.975	5.1	108	0.00
86	I	Perylene-d12	20.000	20.000	0.0	106	0.00
87		Indeno(1,2,3-cd)pyrene	40.000	39.281	1.8	103	0.00
88		Benzo(b)fluoranthene	40.000	39.433	1.4	108	0.00
89		Benzo(k)fluoranthene	40.000	40.992	-2.5	107	0.00
90	C	Benzo(a)pyrene	40.000	40.208	-0.5	106	0.00
91		Dibenzo(a,h)anthracene	40.000	39.378	1.6	103	-0.01
92		Benzo(g,h,i)perylene	40.000	39.992	0.0	105	-0.01

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082025\
Data File : BF143485.D
Acq On : 20 Aug 2025 15:16
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF082025

Quant Time: Aug 20 16:24:07 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 20 15:07:46 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

Response Factor Report MSBNA_P

Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
Method File : 8270E-BP081425.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Aug 14 18:14:31 2025
Response Via : Initial Calibration

Calibration Files
2.5 =BP025392.D 5 =BP025393.D 10 =BP025394.D 20 =BP025395.D 40 =BP025396.D 50 =BP025397.D 60 =BP025398.D 80 =BP0253
99.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.520	0.464	0.475	0.445	0.479	0.462	0.458	0.472	5.07
3)		Pyridine		1.446	1.250	1.256	1.220	1.317	1.281	1.268	1.291	5.77
4)		n-Nitrosodimet...			0.515	0.512	0.511	0.559	0.555	0.541	0.532	4.13
5)	S	2-Fluorophenol		1.232	1.177	1.194	1.162	1.240	1.226	1.199	1.204	2.42
6)		Aniline		2.098	1.962	2.030	2.020	2.194	2.164	2.094	2.080	3.96
7)	S	Phenol-d6		1.483	1.467	1.533	1.513	1.641	1.609	1.563	1.544	4.16
8)		2-Chlorophenol		1.351	1.283	1.347	1.313	1.428	1.414	1.378	1.359	3.83
9)		Benzaldehyde			0.987	0.956	1.366	1.262	1.005	0.915	1.082	17.12
10)	C	Phenol		1.594	1.529	1.613	1.575	1.707	1.688	1.635	1.620	3.87
11)		bis(2-Chloroet...		1.283	1.183	1.273	1.222	1.321	1.303	1.255	1.263	3.78
12)		1,3-Dichlorobe...		1.532	1.433	1.503	1.443	1.555	1.530	1.493	1.499	3.07
13)	C	1,4-Dichlorobe...		1.587	1.490	1.527	1.467	1.596	1.544	1.510	1.532	3.12
14)		1,2-Dichlorobe...		1.558	1.430	1.491	1.431	1.533	1.487	1.449	1.483	3.35
15)		Benzyl Alcohol			1.138	1.205	1.193	1.287	1.289	1.250	1.227	4.83
16)		2,2'-oxybis(1-...		1.762	1.592	1.712	1.620	1.751	1.740	1.665	1.692	3.96
17)		2-Methylphenol		1.075	1.030	1.123	1.107	1.198	1.191	1.154	1.125	5.41
18)		Hexachloroethane		0.577	0.544	0.552	0.545	0.588	0.578	0.559	0.563	3.13
19)	P	n-Nitroso-di-n...	1.014	1.066	0.959	1.056	0.992	1.053	1.042	1.000	1.023	3.68
20)		3+4-Methylphenols			1.442	1.533	1.525	1.639	1.640	1.580	1.560	4.87
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.515	0.487	0.506	0.485	0.523	0.506	0.488	0.502	2.96
23)	S	Nitrobenzene-d5		0.395	0.376	0.392	0.383	0.419	0.408	0.394	0.395	3.65
24)		Nitrobenzene		0.350	0.342	0.348	0.344	0.375	0.362	0.352	0.353	3.21
25)		Isophorone		0.734	0.672	0.700	0.674	0.730	0.709	0.680	0.700	3.70
26)	C	2-Nitrophenol		0.167	0.163	0.177	0.181	0.197	0.195	0.190	0.181	7.43
27)		2,4-Dimethylph...		0.303	0.303	0.296	0.308	0.336	0.325	0.313	0.312	4.46
28)		bis(2-Chloroet...		0.443	0.407	0.425	0.407	0.439	0.430	0.410	0.423	3.61
29)	C	2,4-Dichloroph...		0.293	0.293	0.308	0.305	0.331	0.324	0.314	0.310	4.71
30)		1,2,4-Trichlor...		0.357	0.329	0.335	0.327	0.354	0.344	0.332	0.340	3.61
31)		Naphthalene		1.069	1.020	1.037	1.000	1.087	1.052	1.011	1.040	3.06
32)		Benzoic acid			0.188	0.207	0.227	0.249	0.255	0.255	0.230	12.20
33)		4-Chloroaniline		0.453	0.435	0.447	0.452	0.492	0.478	0.458	0.459	4.19
34)	C	Hexachlorobuta...		0.222	0.205	0.211	0.205	0.218	0.213	0.207	0.211	3.05
35)		Caprolactam			0.114	0.110	0.109	0.120	0.116	0.113	0.114	3.67
36)	C	4-Chloro-3-met...		0.366	0.335	0.347	0.346	0.373	0.368	0.353	0.355	3.85
37)		2-Methylnaphth...		0.716	0.653	0.678	0.652	0.700	0.682	0.654	0.676	3.69
38)		1-Methylnaphth...		0.777	0.706	0.713	0.686	0.751	0.719	0.685	0.719	4.67

Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
Method File : 8270E-BP081425.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.578	0.559	0.585	0.560	0.610	0.581	0.571	0.578	3.00
41)	P	Hexachlorocycl...		0.274	0.313	0.348	0.387	0.388	0.383	0.349	13.46
42)	S	2,4,6-Tribromo...	0.266	0.259	0.267	0.263	0.286	0.275	0.268	0.269	3.39
43)	C	2,4,6-Trichlor...	0.368	0.364	0.381	0.382	0.421	0.408	0.405	0.390	5.56
44)		2,4,5-Trichlor...	0.417	0.385	0.424	0.424	0.457	0.448	0.437	0.427	5.52
45)	S	2-Fluorobiphenyl	1.558	1.483	1.507	1.392	1.517	1.435	1.351	1.463	5.04
46)		1,1'-Biphenyl	1.495	1.418	1.457	1.408	1.537	1.445	1.407	1.453	3.37
47)		2-Chloronaphth...	1.152	1.093	1.144	1.101	1.184	1.142	1.100	1.131	2.99
48)		2-Nitroaniline	0.301	0.306	0.317	0.330	0.360	0.351	0.341	0.329	6.85
49)		Acenaphthylene	1.907	1.806	1.848	1.806	1.992	1.907	1.832	1.871	3.63
50)		Dimethylphthalate	1.569	1.449	1.438	1.403	1.512	1.479	1.403	1.465	4.12
51)		2,6-Dinitrotol...	0.297	0.287	0.302	0.309	0.331	0.323	0.311	0.309	4.95
52)	C	Acenaphthene	1.149	1.082	1.100	1.041	1.155	1.106	1.056	1.098	3.93
53)		3-Nitroaniline	0.318	0.329	0.337	0.342	0.384	0.367	0.354	0.347	6.56
54)	P	2,4-Dinitrophenol		0.114	0.140	0.163	0.186	0.192	0.194	0.165	19.83
55)		Dibenzofuran	1.820	1.711	1.737	1.677	1.811	1.729	1.672	1.736	3.40
56)	P	4-Nitrophenol		0.251	0.265	0.279	0.315	0.304	0.298	0.285	8.56
57)		2,4-Dinitrotol...	0.404	0.407	0.431	0.438	0.479	0.471	0.454	0.440	6.61
58)		Fluorene	1.506	1.391	1.390	1.306	1.415	1.330	1.253	1.370	6.02
59)		2,3,4,6-Tetrac...	0.375	0.360	0.366	0.368	0.402	0.392	0.379	0.377	4.01
60)		Diethylphthalate	1.615	1.475	1.465	1.434	1.540	1.459	1.430	1.488	4.48
61)		4-Chlorophenyl...	0.761	0.684	0.679	0.651	0.690	0.671	0.634	0.681	5.91
62)		4-Nitroaniline	0.341	0.336	0.349	0.351	0.387	0.370	0.359	0.356	4.89
63)		Azobenzene	1.315	1.226	1.274	1.237	1.341	1.301	1.227	1.274	3.62
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.096	0.113	0.123	0.139	0.139	0.138	0.125	14.21
66)	c	n-Nitrosodiphe...	0.636	0.603	0.607	0.591	0.634	0.605	0.594	0.610	2.99
67)		4-Bromophenyl-...	0.233	0.206	0.217	0.213	0.230	0.223	0.218	0.220	4.34
68)		Hexachlorobenzene	0.264	0.253	0.254	0.242	0.264	0.257	0.251	0.255	3.06
69)		Atrazine	0.229	0.226	0.228	0.218	0.240	0.229	0.229	0.228	2.74
70)	C	Pentachlorophenol		0.135	0.154	0.157	0.177	0.171	0.172	0.161	9.76
71)		Phenanthrene	1.162	1.101	1.111	1.040	1.135	1.085	1.057	1.099	3.88
72)		Anthracene	1.161	1.124	1.133	1.079	1.175	1.101	1.080	1.122	3.37
73)		Carbazole	1.079	1.052	1.074	1.007	1.111	1.053	1.022	1.057	3.32
74)		Di-n-butylphth...	1.345	1.255	1.332	1.244	1.374	1.285	1.265	1.300	3.86
75)	C	Fluoranthene	1.370	1.323	1.348	1.228	1.361	1.286	1.258	1.311	4.13
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine		0.642	0.642	0.967	0.664	0.608	0.573	0.683	20.94
78)		Pyrene	1.398	1.261	1.287	1.274	1.320	1.319	1.241	1.300	4.00
79)	S	Terphenyl-d14	1.249	1.100	1.097	1.045	1.100	1.061	0.999	1.093	7.15
80)		Butylbenzylpht...	0.589	0.557	0.592	0.579	0.614	0.616	0.578	0.589	3.55
81)		Benzo(a)anthra...	1.384	1.302	1.313	1.268	1.359	1.333	1.275	1.319	3.21
82)		3,3'-Dichlorob...		0.482	0.507	0.488	0.521	0.506	0.480	0.497	3.31
83)		Chrysene	1.292	1.214	1.249	1.182	1.280	1.243	1.186	1.235	3.49
84)		Bis(2-ethylhex...	0.907	0.826	0.874	0.831	0.901	0.882	0.850	0.867	3.73
85)	c	Di-n-octyl pht...		1.381	1.498	1.444	1.572	1.563	1.491	1.492	4.84

Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
Method File : 8270E-BP081425.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.454	1.385	1.440	1.411	1.569	1.522	1.486	1.467	4.36
88)		Benzo(b)fluora...	1.203	1.126	1.171	1.134	1.250	1.197	1.175	1.179	3.60
89)		Benzo(k)fluora...	1.202	1.157	1.200	1.130	1.226	1.206	1.141	1.180	3.16
90)	C	Benzo(a)pyrene	1.139	1.093	1.150	1.108	1.219	1.185	1.141	1.148	3.77
91)		Dibenzo(a,h)an...	1.180	1.125	1.179	1.156	1.290	1.244	1.216	1.199	4.64
92)		Benzo(g,h,i)pe...	1.162	1.118	1.169	1.138	1.248	1.220	1.192	1.178	3.86

(#) = Out of Range

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081425\
Data File : BP025392.D
Acq On : 14 Aug 2025 12:33
Operator : CG/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC2.5

Quant Time: Aug 14 17:51:24 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 17:44:43 2025
Response via : Initial Calibration

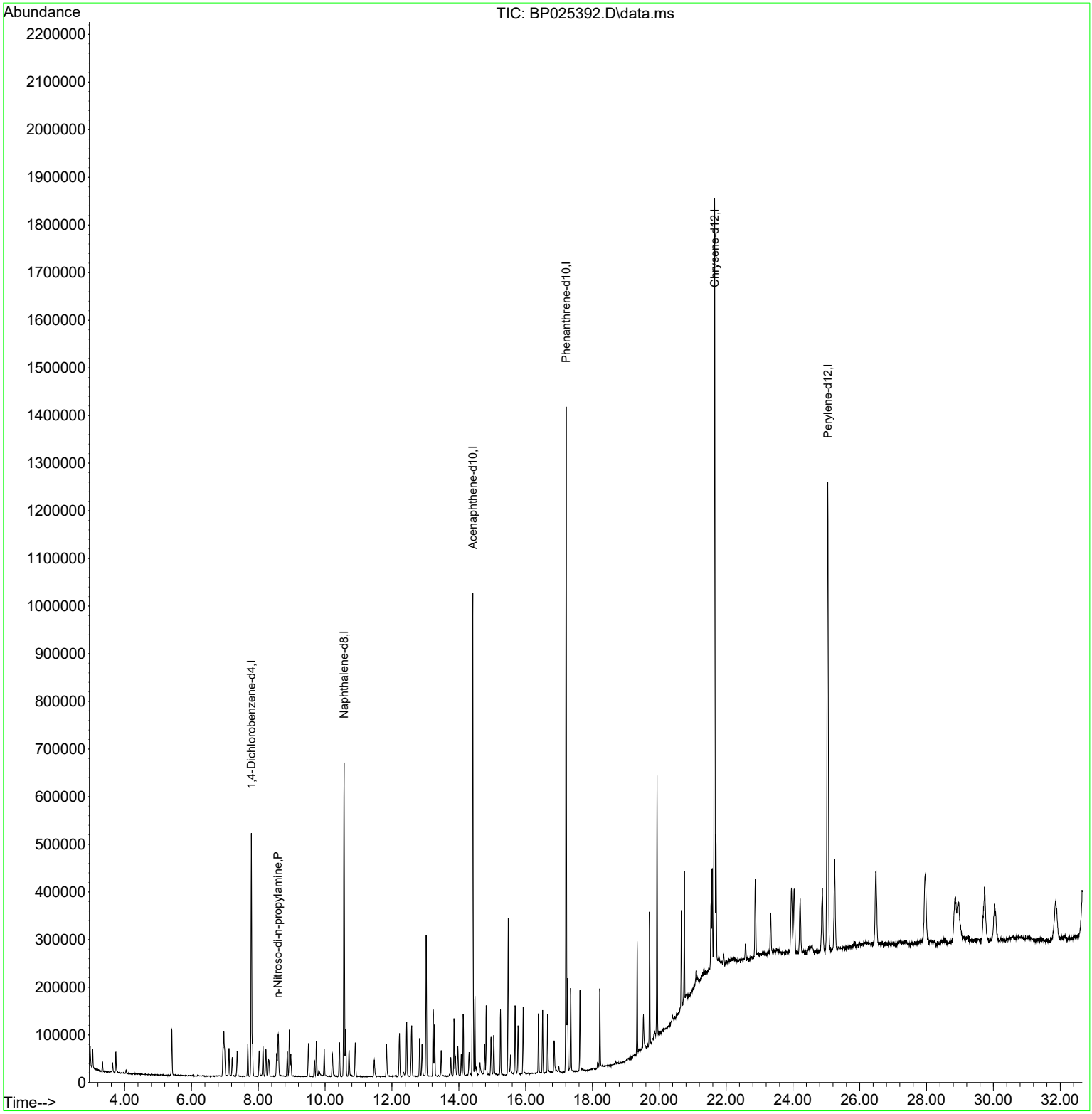
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.790	152	140275	20.000	ng	0.00
21) Naphthalene-d8	10.566	136	567766	20.000	ng	0.00
39) Acenaphthene-d10	14.419	164	380728	20.000	ng	0.01
64) Phenanthrene-d10	17.213	188	796256	20.000	ng	0.01
76) Chrysene-d12	21.660	240	884747	20.000	ng	0.01
86) Perylene-d12	25.042	264	1005304	20.000	ng	0.01
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...	8.584	70	17781	2.476	ng	99

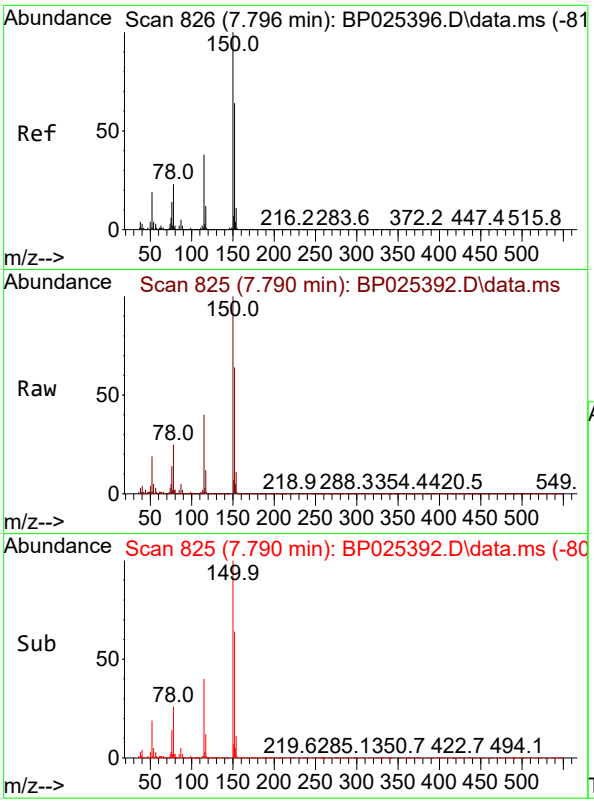
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081425\
Data File : BP025392.D
Acq On : 14 Aug 2025 12:33
Operator : CG/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC2.5

Quant Time: Aug 14 17:51:24 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 17:44:43 2025
Response via : Initial Calibration



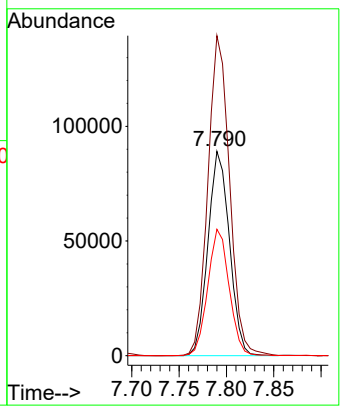


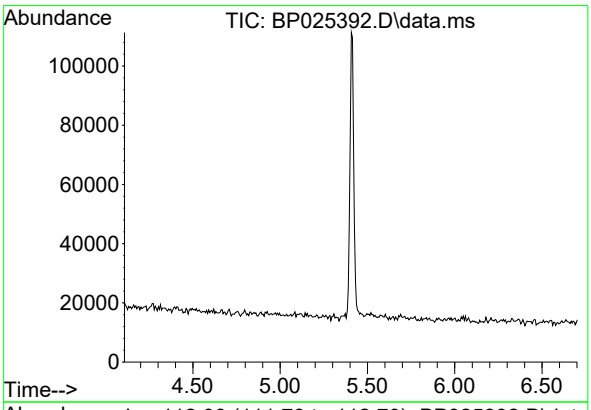
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.790 min Scan# 8
Delta R.T. -0.006 min
Lab File: BP025392.D
Acq: 14 Aug 2025 12:33

Instrument :
BNA_P
ClientSampleId :
SSTDICC2.5

Tgt Ion:152 Resp: 140275

Ion	Ratio	Lower	Upper
152	100		
150	156.6	125.9	188.9
115	61.9	48.5	72.7



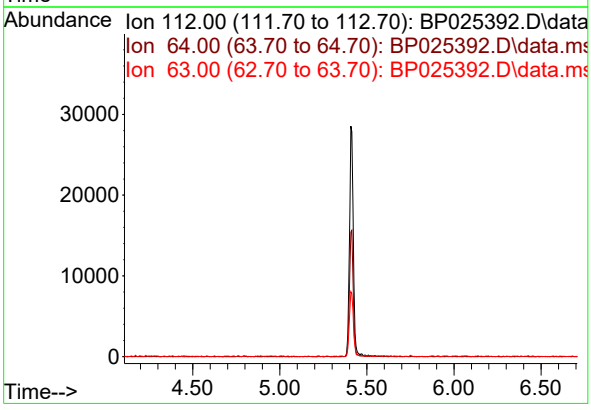


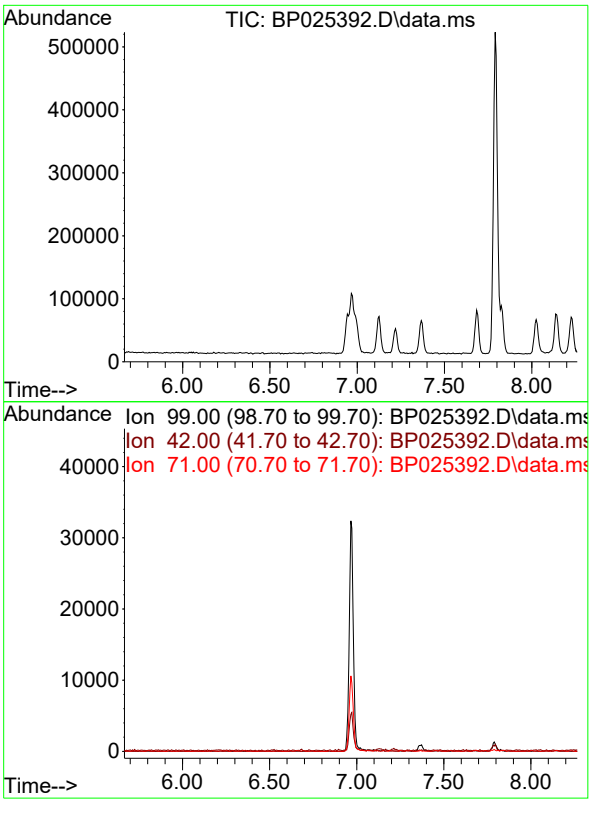
#5
2-Fluorophenol
Concen: 0.000 ng
Expected RT: 5.41 min

Lab File: BP025392.D
Acq: 14 Aug 2025 12:33

Tgt Ion: 112

Sig	Exp Ratio
112	100
64	54.8
63	28.4





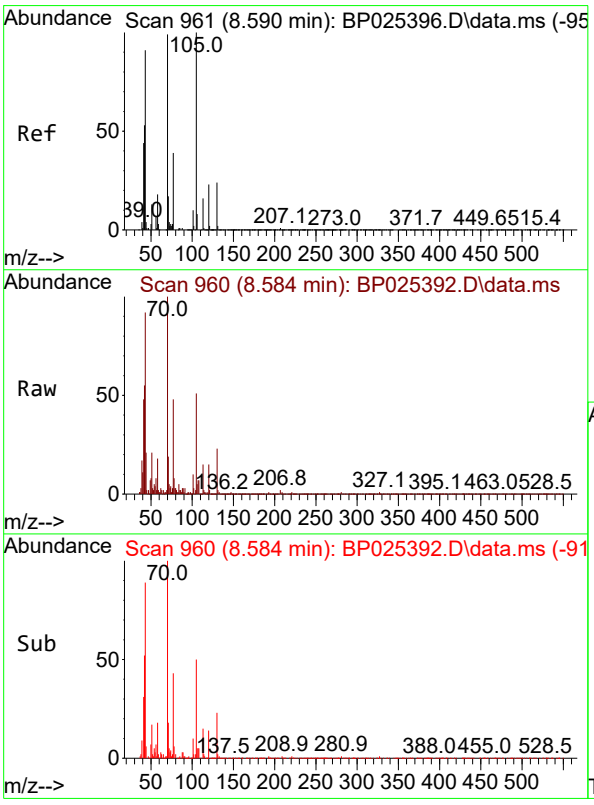
#7
Phenol-d6
Concen: 0.000 ng
Expected RT: 6.97 min

Lab File: BP025392.D
Acq: 14 Aug 2025 12:33

Instrument :
BNA_P
ClientSampleId :
SSTDICC2.5

Tgt Ion: 99

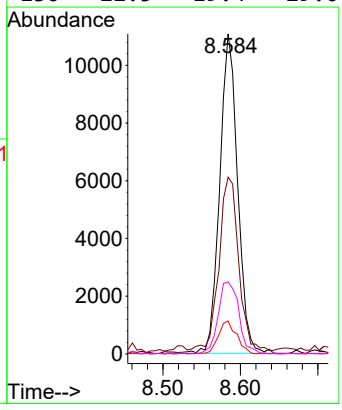
Sig	Exp Ratio
99	100
42	17.1
71	35.3

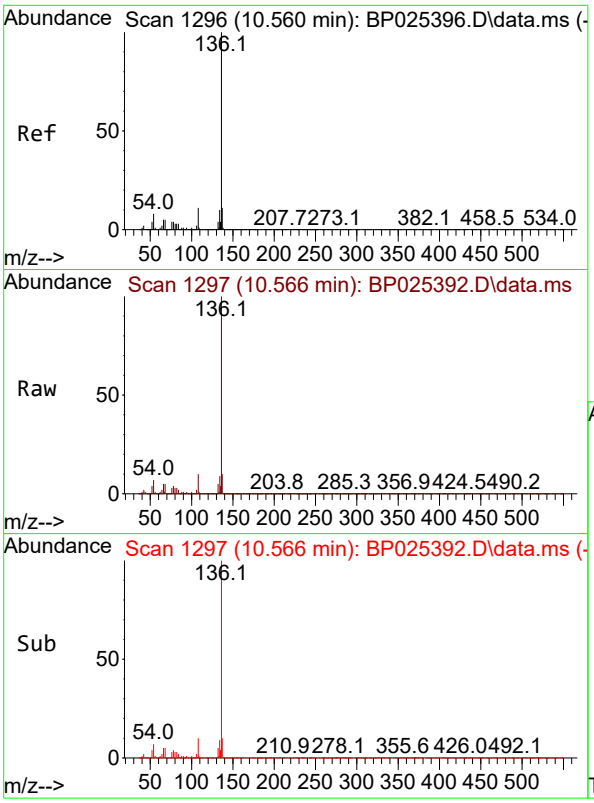


#19
n-Nitroso-di-n-propylamine
Concen: 2.476 ng
RT: 8.584 min Scan# 960
Delta R.T. -0.006 min
Lab File: BP025392.D
Acq: 14 Aug 2025 12:33

Tgt Ion: 70 Resp: 17781

Ion	Ratio	Lower	Upper
70	100		
42	55.2	43.8	65.6
101	10.3	8.5	12.7
130	22.5	19.4	29.0



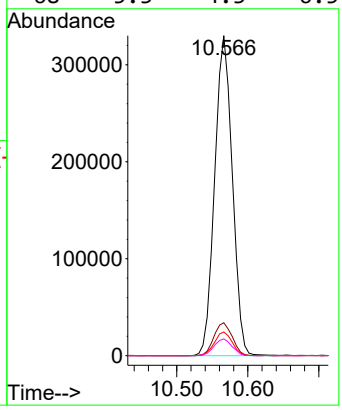


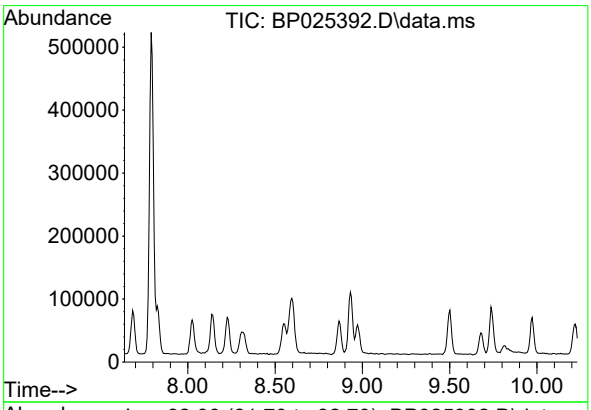
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.566 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP025392.D
Acq: 14 Aug 2025 12:33

Instrument :
BNA_P
ClientSampleId :
SSTDICC2.5

Tgt Ion:136 Resp: 567766

Ion	Ratio	Lower	Upper
136	100		
137	10.3	9.2	13.8
54	7.4	6.0	9.0
68	5.3	4.3	6.5



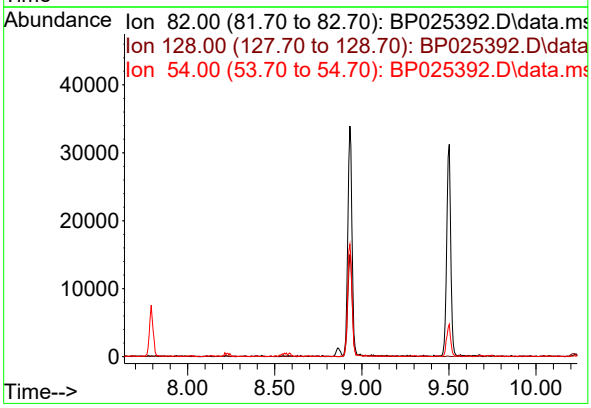


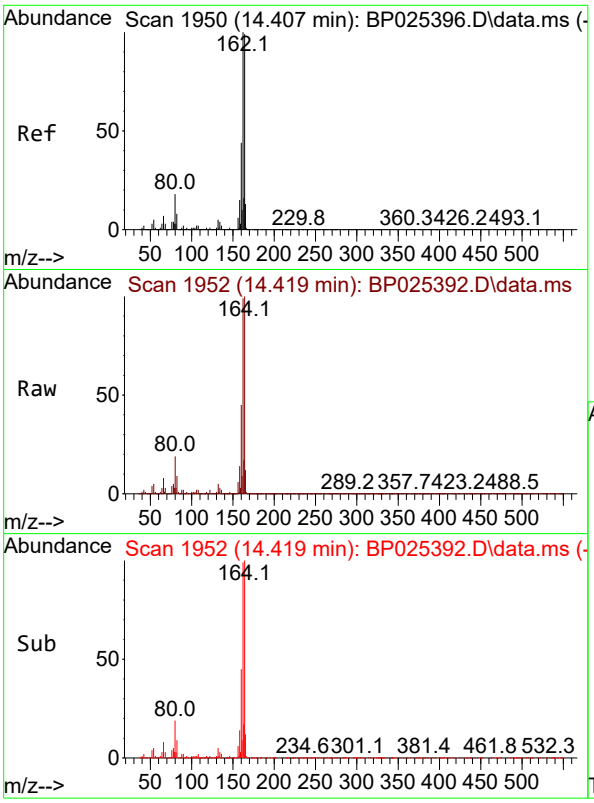
#23
Nitrobenzene-d5
Concen: 0.000 ng
Expected RT: 8.94 min

Lab File: BP025392.D
Acq: 14 Aug 2025 12:33

Tgt Ion: 82

Sig	Exp Ratio
82	100
128	47.1
54	49.7



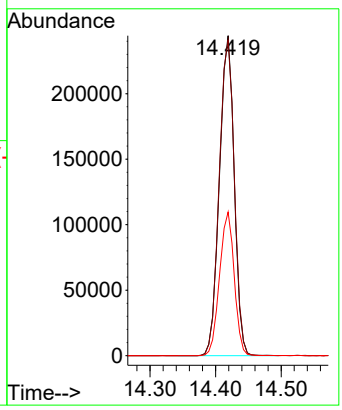


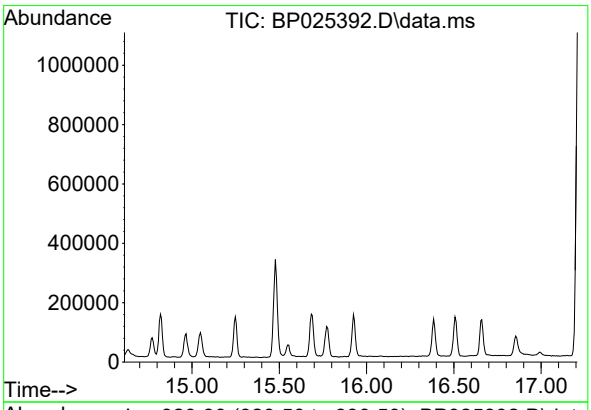
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.419 min Scan# 1
Delta R.T. 0.012 min
Lab File: BP025392.D
Acq: 14 Aug 2025 12:33

Instrument :
BNA_P
ClientSampleId :
SSTDICC2.5

Tgt Ion:164 Resp: 380728

Ion	Ratio	Lower	Upper
164	100		
162	98.7	81.0	121.6
160	44.9	35.4	53.2



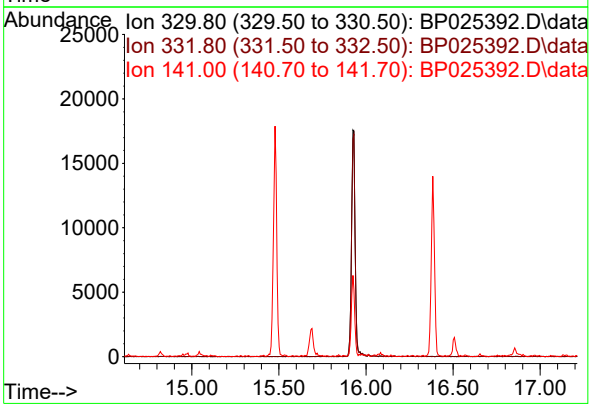


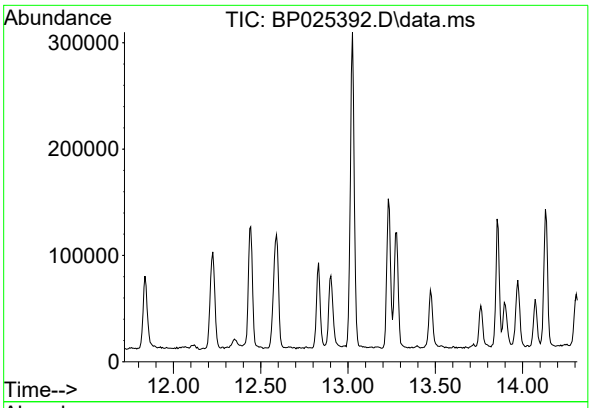
#42
2,4,6-Tribromophenol
Concen: 0.000 ng
Expected RT: 15.91 min

Lab File: BP025392.D
Acq: 14 Aug 2025 12:33

Tgt Ion: 330

Sig	Exp Ratio
330	100
332	96.6
141	33.2





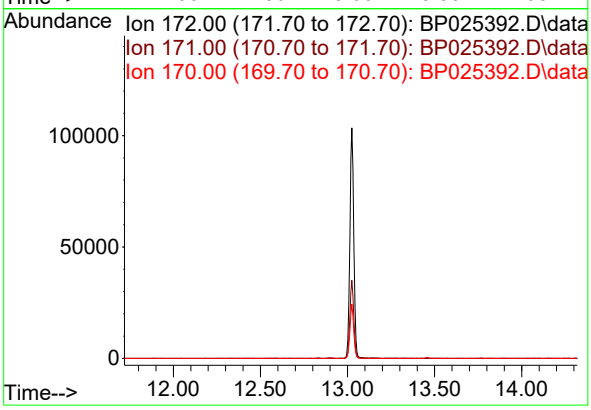
#45
2-Fluorobiphenyl
Concen: 0.000 ng
Expected RT: 13.02 min

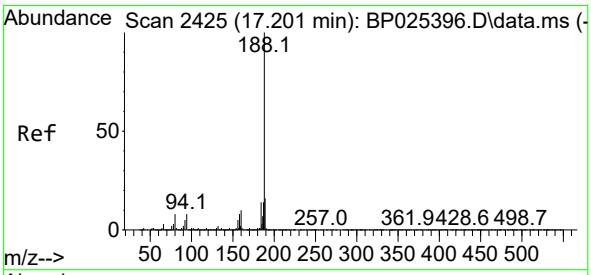
Lab File: BP025392.D
Acq: 14 Aug 2025 12:33

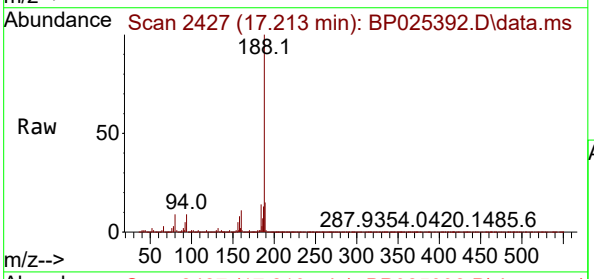
Instrument :
BNA_P
ClientSampleId :
SSTDICC2.5

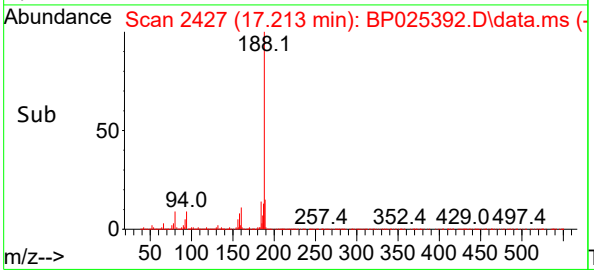
Tgt Ion: 172

Sig	Exp Ratio
172	100
171	35.1
170	23.3





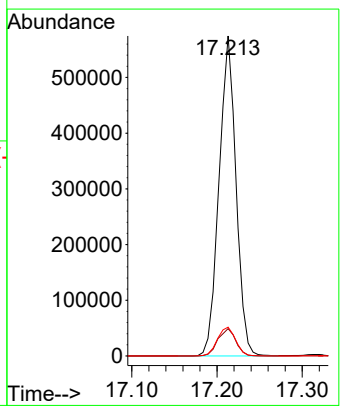


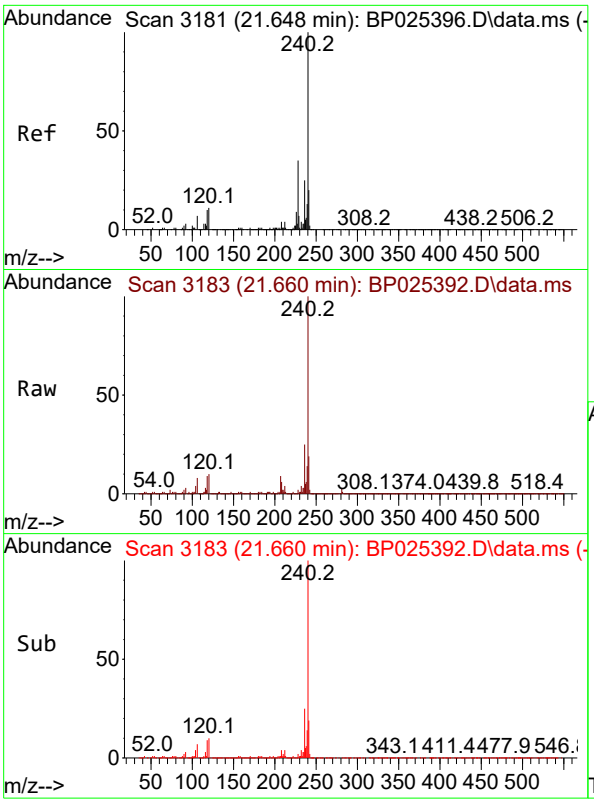


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.213 min Scan# 2427
Delta R.T. 0.012 min
Lab File: BP025392.D
Acq: 14 Aug 2025 12:33

Tgt Ion:188 Resp: 796256

Ion	Ratio	Lower	Upper
188	100		
94	8.6	6.6	10.0
80	9.0	6.7	10.1



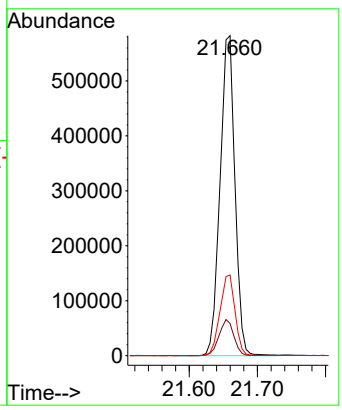


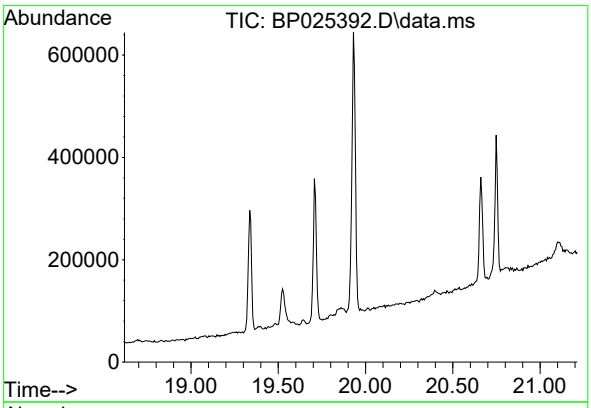
#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.660 min Scan# 3
Delta R.T. 0.012 min
Lab File: BP025392.D
Acq: 14 Aug 2025 12:33

Instrument :
BNA_P
ClientSampleId :
SSTDICC2.5

Tgt Ion:240 Resp: 884747

Ion	Ratio	Lower	Upper
240	100		
120	10.0	8.9	13.3
236	25.2	19.8	29.8



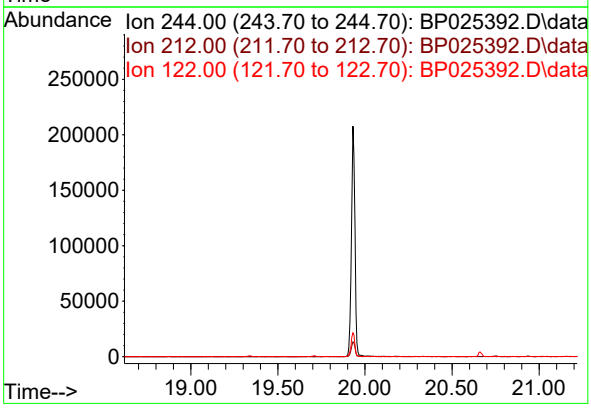


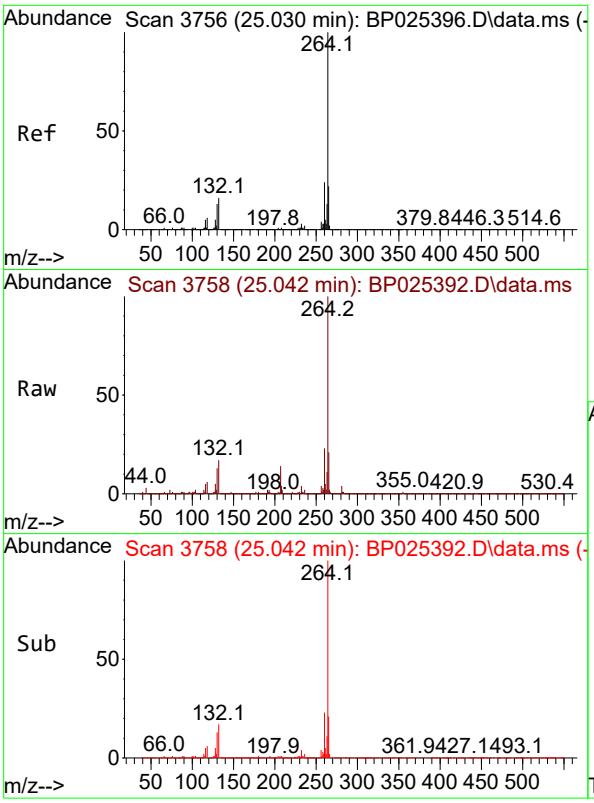
#79
Terphenyl-d14
Concen: 0.000 ng
Expected RT: 19.92 min

Lab File: BP025392.D
Acq: 14 Aug 2025 12:33

Tgt Ion: 244

Sig	Exp Ratio
244	100
212	7.2
122	9.3



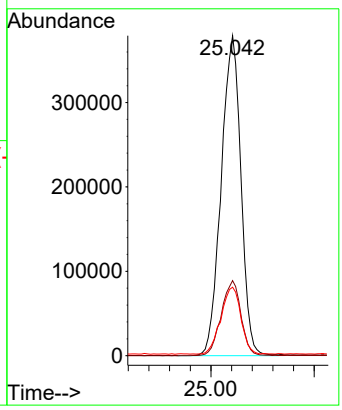


#86
Perylene-d12
Concen: 20.000 ng
RT: 25.042 min Scan# 3
Delta R.T. 0.012 min
Lab File: BP025392.D
Acq: 14 Aug 2025 12:33

Instrument :
BNA_P
ClientSampleId :
SSTDICC2.5

Tgt Ion:264 Resp: 1005304

Ion	Ratio	Lower	Upper
264	100		
260	23.5	19.3	28.9
265	21.4	17.4	26.0



Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081425\
Data File : BP025393.D
Acq On : 14 Aug 2025 13:15
Operator : CG/JU
Sample : SSTDICC005
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 14 17:52:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 17:44:43 2025
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 08/15/2025
Supervised By :Jagrut Upadhyay 08/15/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.790	152	130958	20.000	ng		0.00
21) Naphthalene-d8	10.560	136	551384	20.000	ng		0.00
39) Acenaphthene-d10	14.401	164	392376	20.000	ng		0.00
64) Phenanthrene-d10	17.207	188	816331	20.000	ng		0.00
76) Chrysene-d12	21.654	240	858165	20.000	ng		0.00
86) Perylene-d12	25.036	264	963881	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.408	112	80645	10.227	ng		0.00
7) Phenol-d6	6.966	99	97106	9.605	ng		0.00
23) Nitrobenzene-d5	8.931	82	108814	9.983	ng		0.00
42) 2,4,6-Tribromophenol	15.913	330	52188	9.881	ng		0.00
45) 2-Fluorobiphenyl	13.019	172	305742	10.649	ng		0.00
79) Terphenyl-d14	19.925	244	536049	11.428	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.337	88	17016	5.509	ng		95
3) Pyridine	3.731	79	47347	5.600	ng		95
6) Aniline	7.119	93	68694	5.043	ng		100
8) 2-Chlorophenol	7.366	128	44217	4.969	ng		98
10) Phenol	6.990	94	52186	4.919	ng		98
11) bis(2-Chloroethyl)ether	7.219	93	41995	5.079	ng		98
12) 1,3-Dichlorobenzene	7.684	146	50146	5.111	ng		96
13) 1,4-Dichlorobenzene	7.825	146	51948	5.180	ng		97
14) 1,2-Dichlorobenzene	8.143	146	50995	5.253	ng		96
16) 2,2'-oxybis(1-Chloropr...	8.313	45	57686	5.208	ng		98
17) 2-Methylphenol	8.225	107	35186	4.776	ng		96
18) Hexachloroethane	8.866	117	18905	5.127	ng		99
19) n-Nitroso-di-n-propyla...	8.584	70	34898	5.205	ng		95
22) Acetophenone	8.602	105	70986	5.134	ng	#	96
24) Nitrobenzene	8.972	77	48234	4.951	ng		99
25) Isophorone	9.496	82	101112	5.242	ng		98
26) 2-Nitrophenol	9.678	139	23020	4.605	ng		95
27) 2,4-Dimethylphenol	9.737	122	41790	4.861	ng		99
28) bis(2-Chloroethoxy)met...	9.972	93	61017	5.233	ng		98
29) 2,4-Dichlorophenol	10.213	162	40336	4.723	ng		94
30) 1,2,4-Trichlorobenzene	10.425	180	49237	5.259	ng		97
31) Naphthalene	10.613	128	147346	5.141	ng		99
33) 4-Chloroaniline	10.713	127	62452	4.933	ng		96
34) Hexachlorobutadiene	10.902	225	30559	5.241	ng		95
36) 4-Chloro-3-methylphenol	11.837	107	50515	5.154	ng		91
37) 2-Methylnaphthalene	12.219	142	98648	5.289	ng		97
38) 1-Methylnaphthalene	12.437	142	107044	5.397	ng		97
40) 1,2,4,5-Tetrachloroben...	12.590	216	56676	5.001	ng		100
43) 2,4,6-Trichlorophenol	12.831	196	36093	4.718	ng		95
44) 2,4,5-Trichlorophenol	12.901	196	40875	4.875	ng		95
46) 1,1'-Biphenyl	13.237	154	146651	5.146	ng		98
47) 2-Chloronaphthalene	13.272	162	113015	5.094	ng		99
48) 2-Nitroaniline	13.466	65	29527	4.568	ng		98
49) Acenaphthylene	14.125	152	187026	5.095	ng		99
50) Dimethylphthalate	13.860	163	153868	5.355	ng		99
51) 2,6-Dinitrotoluene	13.966	165	29088	4.803	ng		94

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081425\
Data File : BP025393.D
Acq On : 14 Aug 2025 13:15
Operator : CG/JU
Sample : SSTDICC005
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 08/15/2025
Supervised By :Jagrut Upadhyay 08/15/2025

Quant Time: Aug 14 17:52:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 17:44:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
52) Acenaphthene	14.472	154	112730m	5.232	ng	
53) 3-Nitroaniline	14.301	138	31224	4.583	ng	85
55) Dibenzofuran	14.813	168	178494	5.240	ng	99
57) 2,4-Dinitrotoluene	14.760	165	39658	4.590	ng	94
58) Fluorene	15.472	166	147760	5.497	ng	97
59) 2,3,4,6-Tetrachlorophenol	15.037	232	36779	4.968	ng	99
60) Diethylphthalate	15.237	149	158426	5.426	ng	99
61) 4-Chlorophenyl-phenyle...	15.466	204	74636	5.583	ng	99
62) 4-Nitroaniline	15.478	138	33466	4.791	ng	90
63) Azobenzene	15.760	77	128978	5.159	ng	99
66) n-Nitrosodiphenylamine	15.678	169	129805	5.214	ng	97
67) 4-Bromophenyl-phenylether	16.378	248	47579	5.299	ng	98
68) Hexachlorobenzene	16.501	284	53940	5.183	ng	98
69) Atrazine	16.648	200	46750	5.015	ng	96
71) Phenanthrene	17.248	178	237107	5.287	ng	98
72) Anthracene	17.342	178	236938	5.174	ng	99
73) Carbazole	17.619	167	220112	5.103	ng	98
74) Di-n-butylphthalate	18.231	149	274467	5.172	ng	99
75) Fluoranthene	19.336	202	279497	5.225	ng	99
78) Pyrene	19.713	202	299922	5.377	ng	98
80) Butylbenzylphthalate	20.654	149	126321	4.997	ng	99
81) Benzo(a)anthracene	21.636	228	296847	5.245	ng	100
83) Chrysene	21.701	228	277175	5.229	ng	99
84) Bis(2-ethylhexyl)phtha...	21.583	149	194541	5.228	ng	97
87) Indeno(1,2,3-cd)pyrene	28.865	276	350414	4.956	ng	98
88) Benzo(b)fluoranthene	23.960	252	289797	5.099	ng	99
89) Benzo(k)fluoranthene	24.042	252	289556	5.091	ng	98
90) Benzo(a)pyrene	24.877	252	274440	4.960	ng	99
91) Dibenzo(a,h)anthracene	28.942	278	284440	4.924	ng	100
92) Benzo(g,h,i)perylene	30.036	276	279987	4.931	ng	97

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

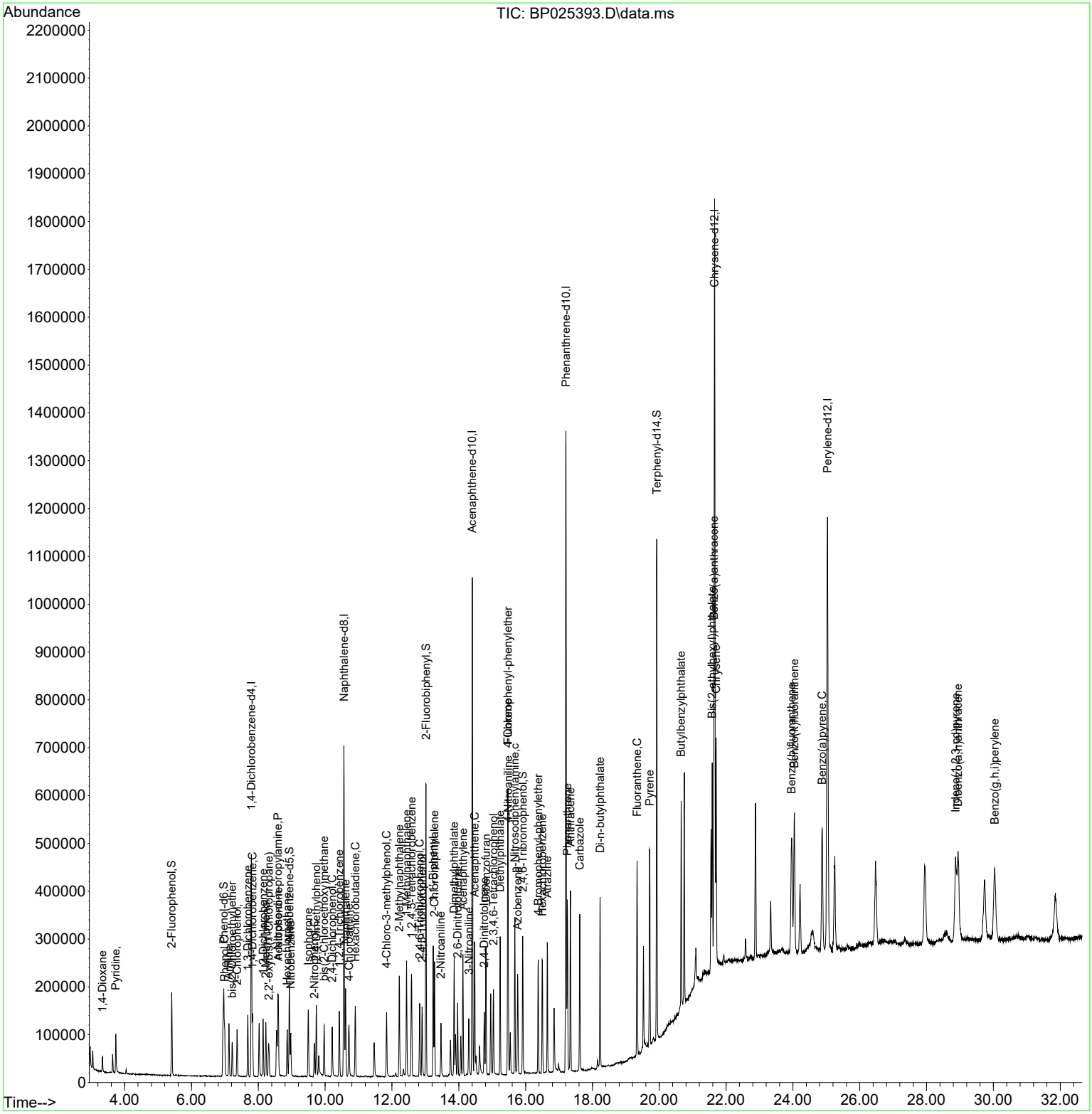
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081425\
Data File : BP025393.D
Acq On : 14 Aug 2025 13:15
Operator : CG/JU
Sample : SSTDICC005
Misc :
ALS Vial : 4 Sample Multiplier: 1

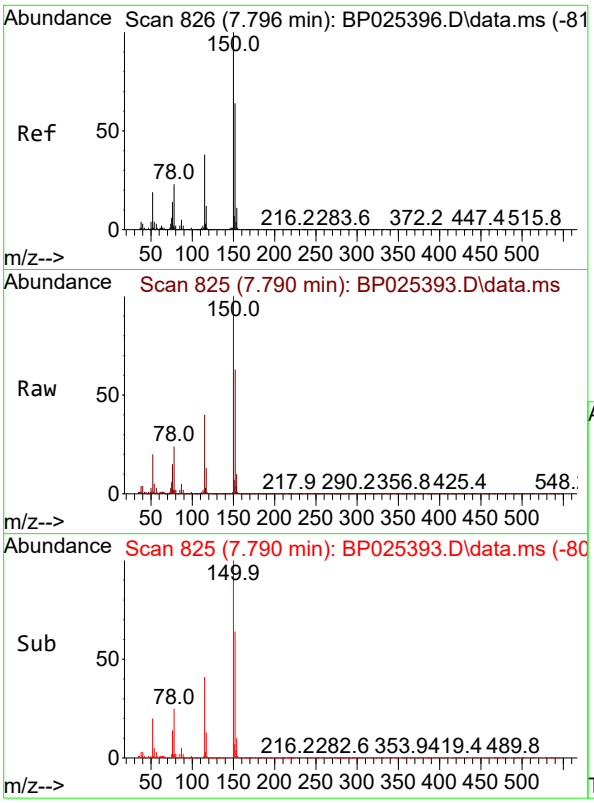
Quant Time: Aug 14 17:52:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 17:44:43 2025
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 08/15/2025
Supervised By :Jagrut Upadhyay 08/15/2025

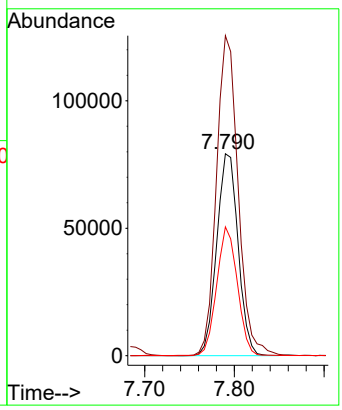




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.790 min Scan# 8
Delta R.T. -0.006 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:152 Resp: 13095

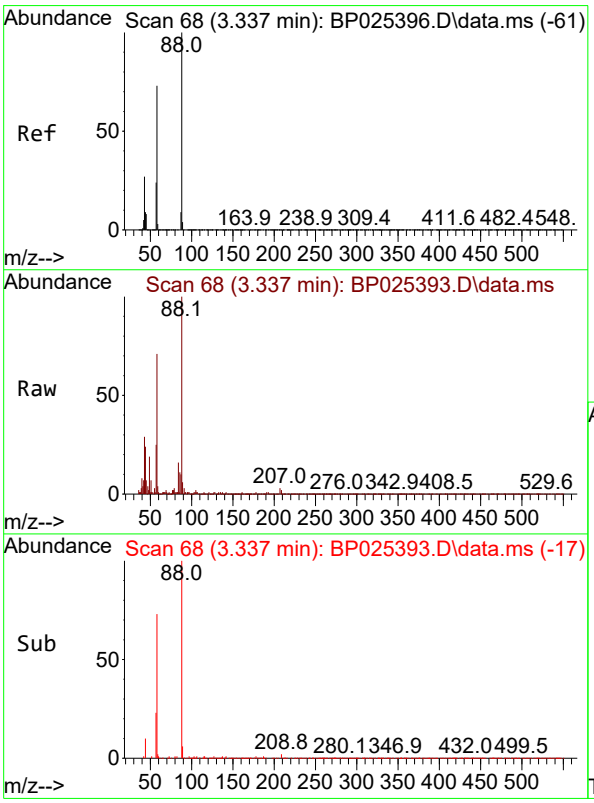
Ion	Ratio	Lower	Upper
152	100		
150	158.5	125.9	188.9
115	63.8	48.5	72.7



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

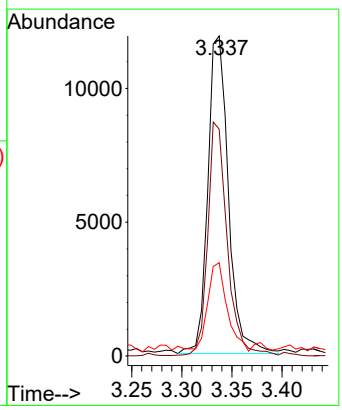
Reviewed By :Rahul Chavli 08/15/2025
Supervised By :Jagrut Upadhyay 08/15/2025

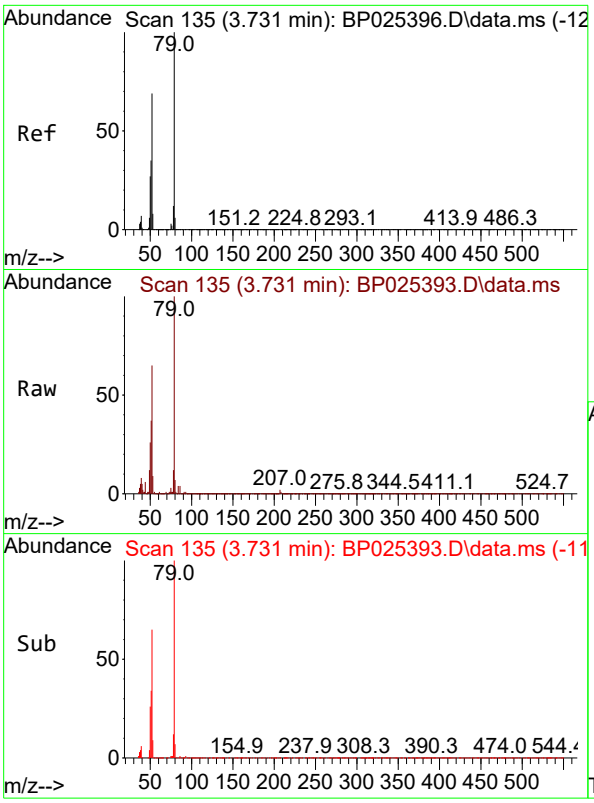


#2
1,4-Dioxane
Concen: 5.509 ng
RT: 3.337 min Scan# 68
Delta R.T. 0.000 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion: 88 Resp: 17016

Ion	Ratio	Lower	Upper
88	100		
58	69.1	59.2	88.8
43	26.1	21.7	32.5

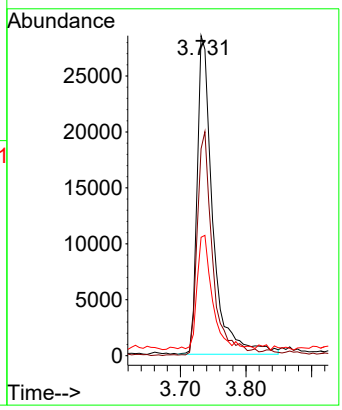




#3
Pyridine
Concen: 5.600 ng
RT: 3.731 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion: 79 Resp: 4734

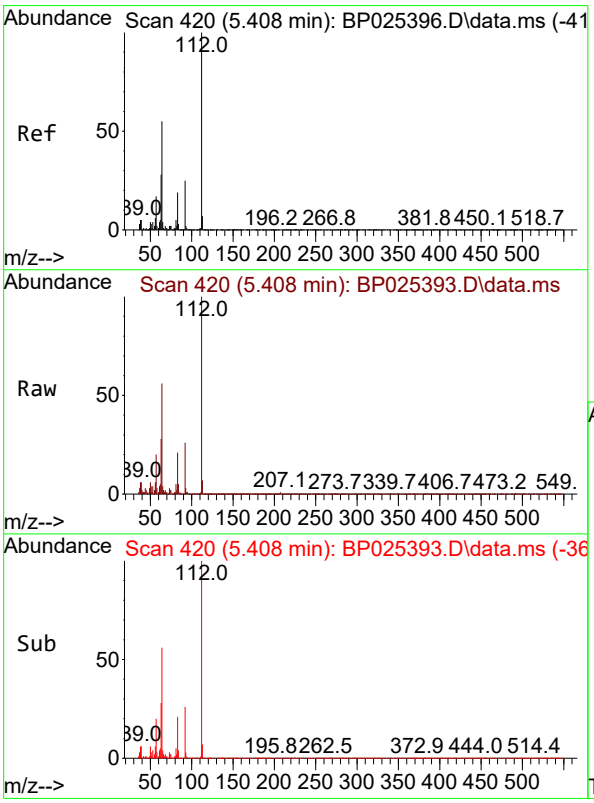
Ion	Ratio	Lower	Upper
79	100		
52	64.7	55.5	83.3
51	37.0	28.3	42.5



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

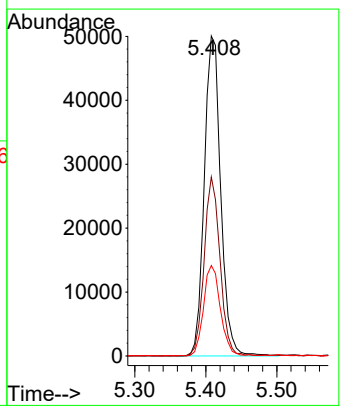
Reviewed By :Rahul Chavli 08/15/2025
Supervised By :Jagrut Upadhyay 08/15/2025

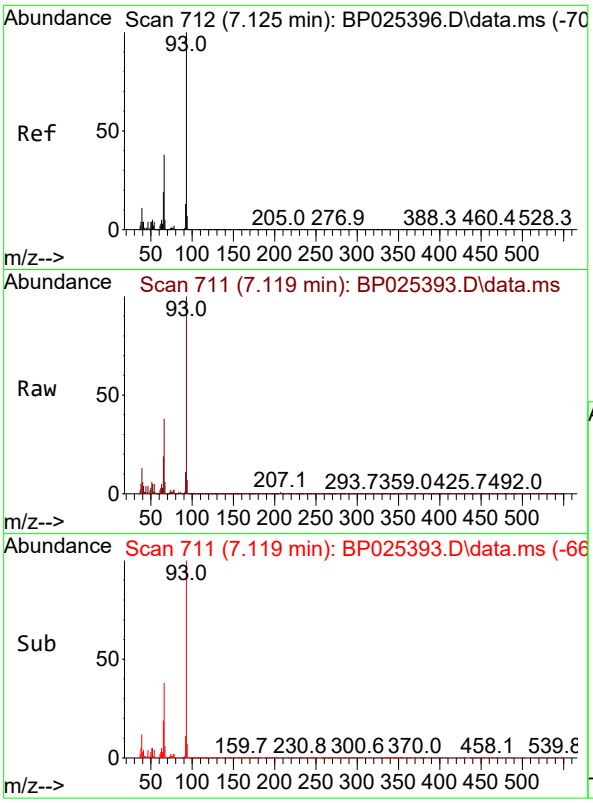


#5
2-Fluorophenol
Concen: 10.227 ng
RT: 5.408 min Scan# 420
Delta R.T. 0.000 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:112 Resp: 80645

Ion	Ratio	Lower	Upper
112	100		
64	55.9	43.8	65.8
63	28.3	22.7	34.1

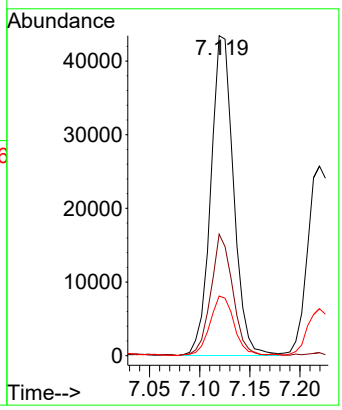




#6
Aniline
Concen: 5.043 ng
RT: 7.119 min Scan# 7
Delta R.T. -0.006 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion: 93 Resp: 6869

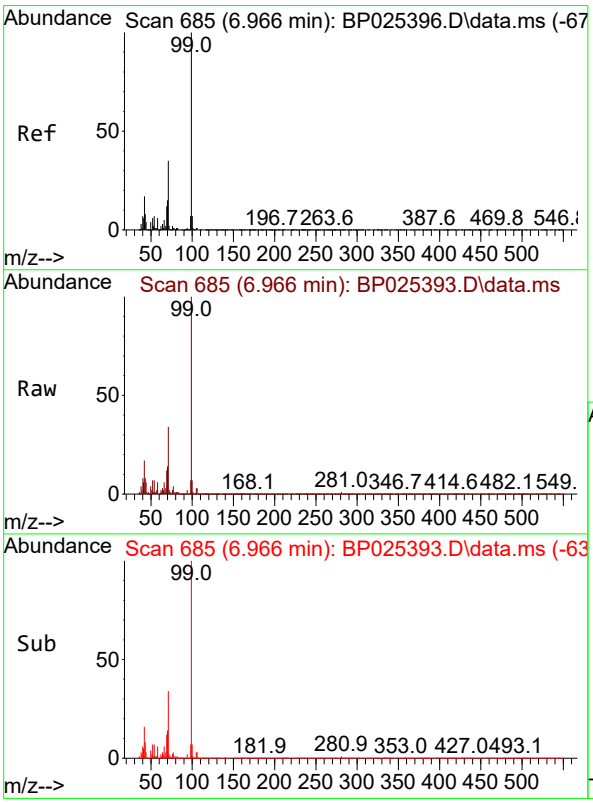
Ion	Ratio	Lower	Upper
93	100		
66	38.0	30.4	45.6
65	18.6	15.3	22.9



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

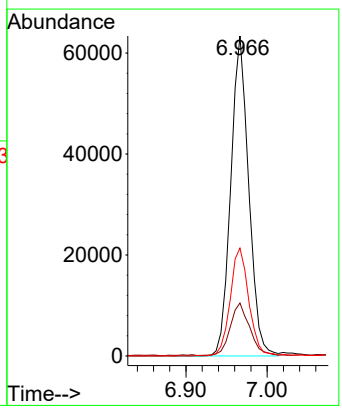
Reviewed By :Rahul Chavli 08/15/2025
Supervised By :Jagrut Upadhyay 08/15/2025

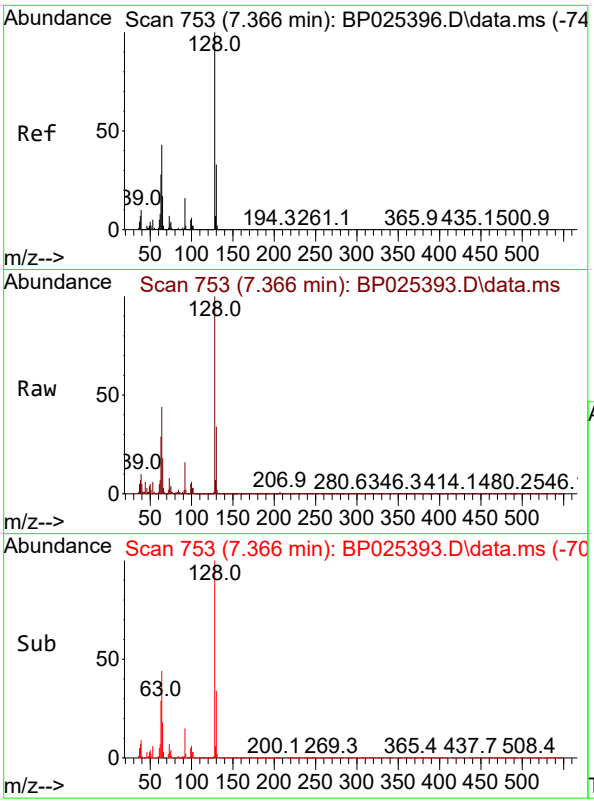


#7
Phenol-d6
Concen: 9.605 ng
RT: 6.966 min Scan# 685
Delta R.T. 0.000 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion: 99 Resp: 97106

Ion	Ratio	Lower	Upper
99	100		
42	16.5	13.7	20.5
71	33.7	28.2	42.4

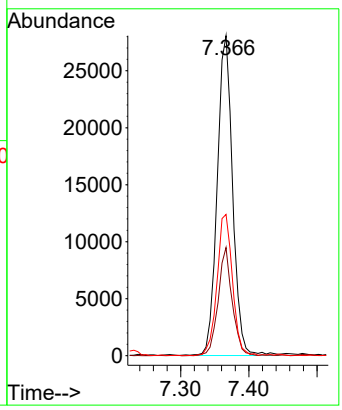




#8
2-Chlorophenol
Concen: 4.969 ng
RT: 7.366 min Scan# 7
Delta R.T. 0.000 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:128 Resp: 4421

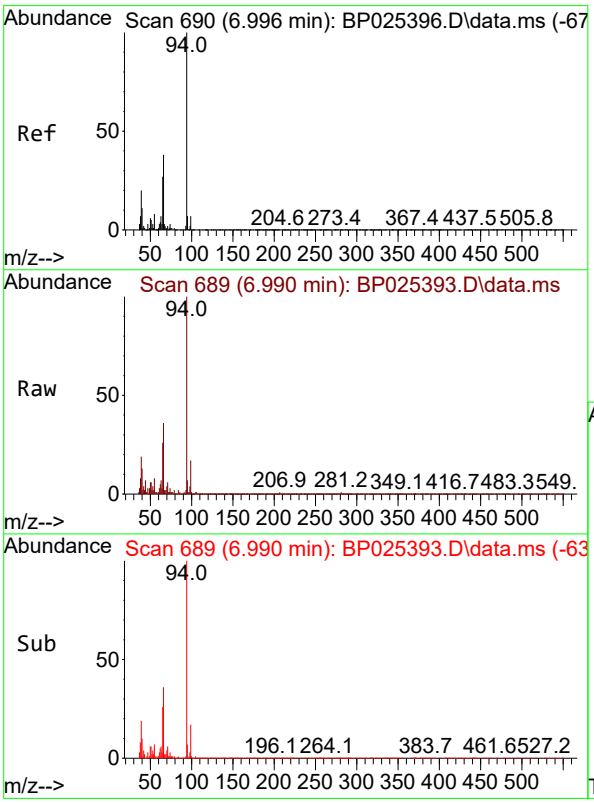
Ion	Ratio	Lower	Upper
128	100		
130	33.8	12.6	52.6
64	44.1	23.4	63.4



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

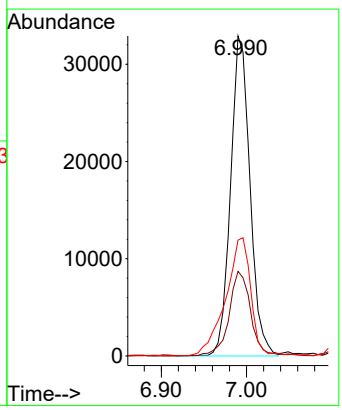
Reviewed By :Rahul Chavli 08/15/2025
Supervised By :Jagrut Upadhyay 08/15/2025

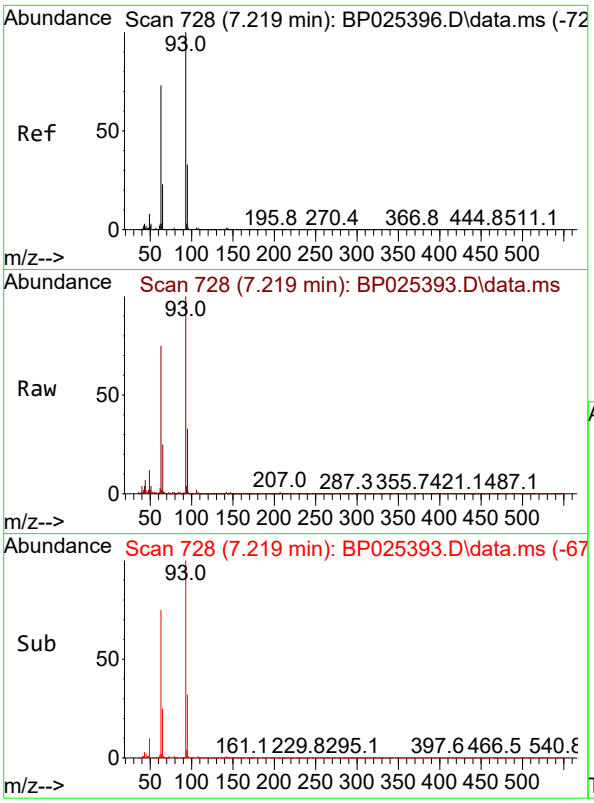


#10
Phenol
Concen: 4.919 ng
RT: 6.990 min Scan# 689
Delta R.T. -0.006 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion: 94 Resp: 52186

Ion	Ratio	Lower	Upper
94	100		
65	26.5	6.8	46.8
66	36.2	18.2	58.2

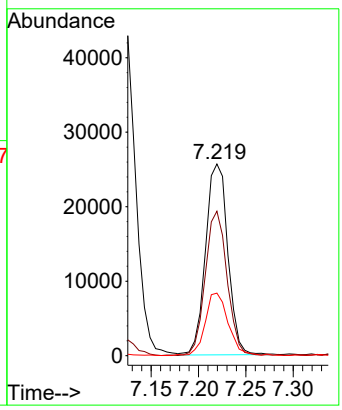




#11
bis(2-Chloroethyl)ether
Concen: 5.079 ng
RT: 7.219 min Scan# 7
Delta R.T. 0.000 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion: 93 Resp: 4199

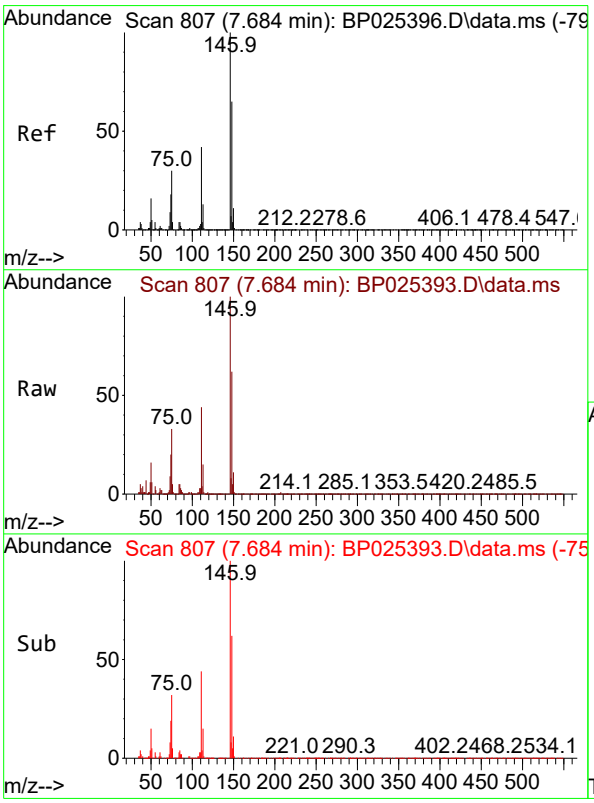
Ion	Ratio	Lower	Upper
93	100		
63	75.4	52.6	92.6
95	32.6	12.7	52.7



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

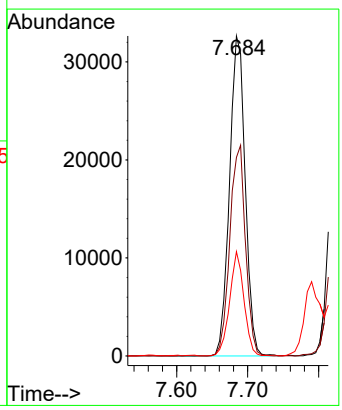
Reviewed By :Rahul Chavli 08/15/2025
Supervised By :Jagrut Upadhyay 08/15/2025

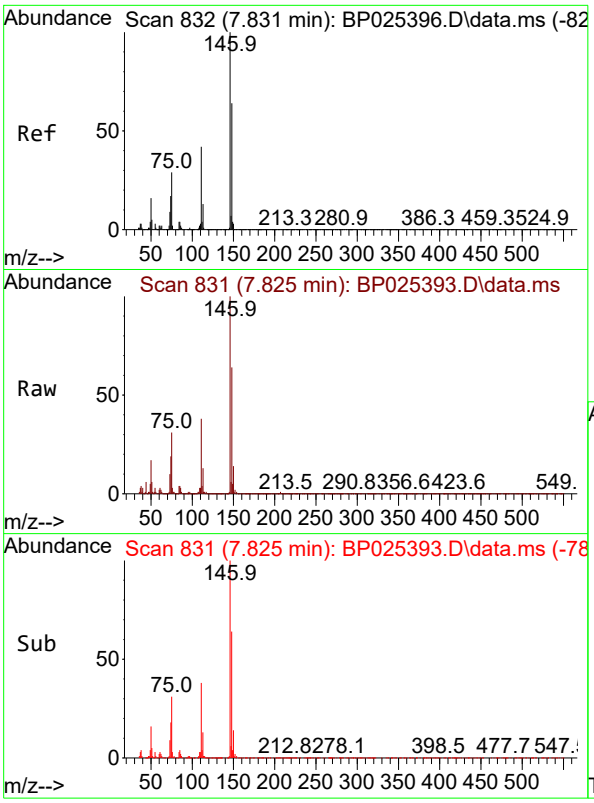


#12
1,3-Dichlorobenzene
Concen: 5.111 ng
RT: 7.684 min Scan# 807
Delta R.T. 0.000 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:146 Resp: 50146

Ion	Ratio	Lower	Upper
146	100		
148	62.1	51.9	77.9
75	32.6	23.7	35.5

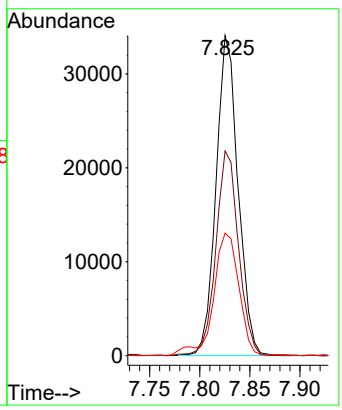




#13
1,4-Dichlorobenzene
Concen: 5.180 ng
RT: 7.825 min Scan# 8
Delta R.T. -0.006 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:146 Resp: 5194

Ion	Ratio	Lower	Upper
146	100		
148	64.0	51.6	77.4
111	38.3	33.4	50.0



Instrument :
BNA_P
ClientSampleId :
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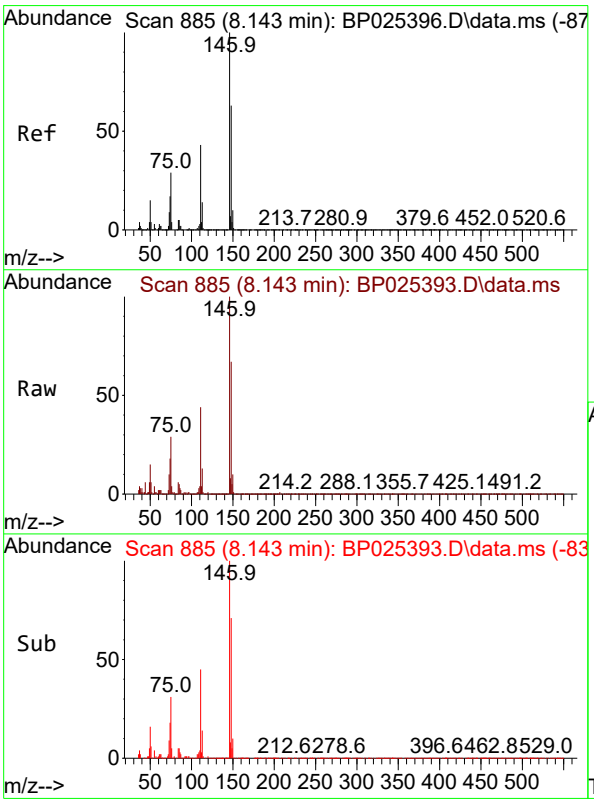
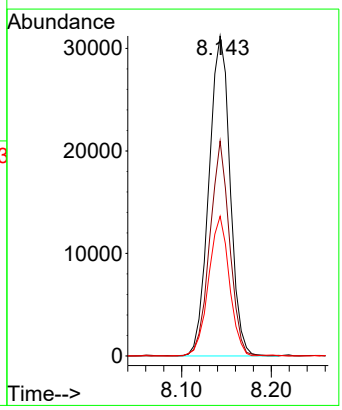
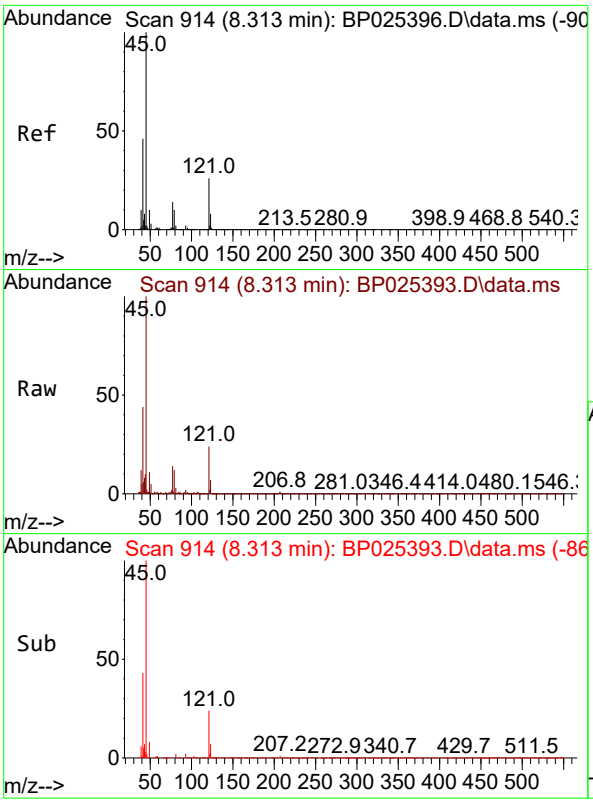


#14
1,2-Dichlorobenzene
Concen: 5.253 ng
RT: 8.143 min Scan# 885
Delta R.T. 0.000 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:146 Resp: 50995

Ion	Ratio	Lower	Upper
146	100		
148	67.2	50.4	75.6
111	43.7	34.5	51.7





#16
2,2'-oxybis(1-Chloropropane)
Concen: 5.208 ng
RT: 8.313 min Scan# 9
Delta R.T. 0.000 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion: 45 Resp: 5768

Ion	Ratio	Lower	Upper
45	100		
77	14.1	0.0	35.3
79	12.4	0.0	31.8

Instrument :
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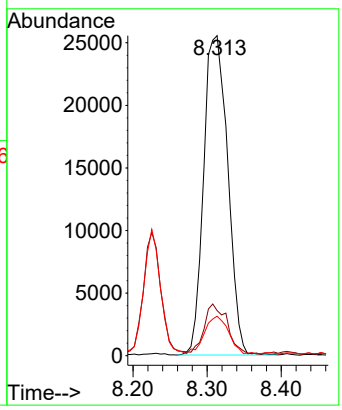
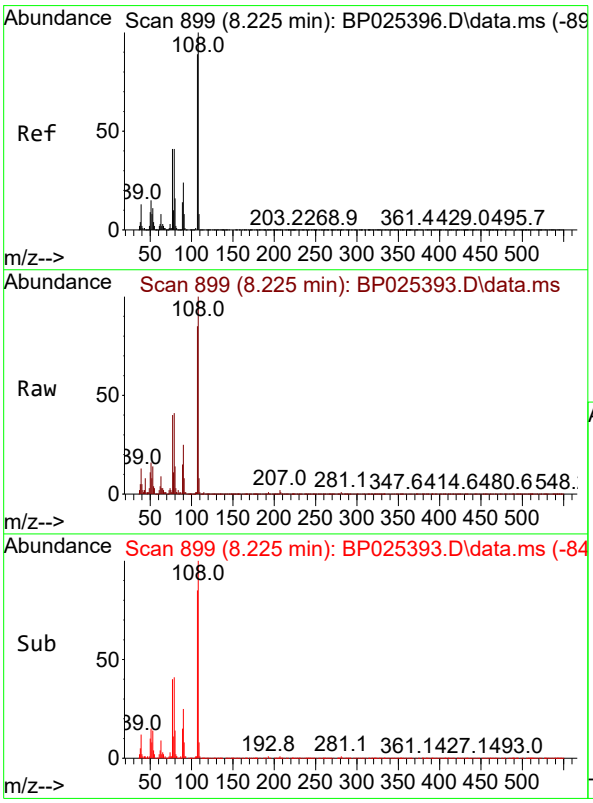
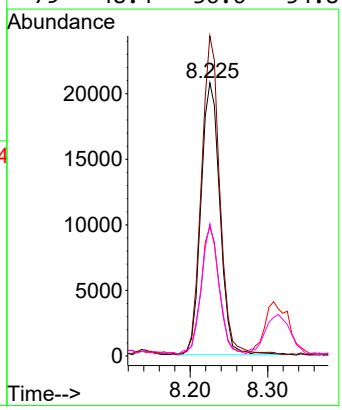


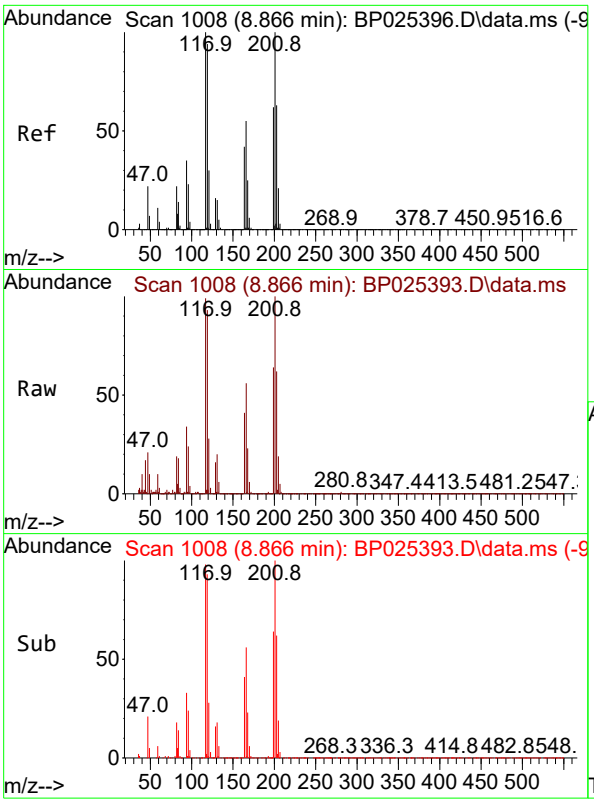


#17
2-Methylphenol
Concen: 4.776 ng
RT: 8.225 min Scan# 899
Delta R.T. 0.000 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:107 Resp: 35186

Ion	Ratio	Lower	Upper
107	100		
108	117.2	89.4	134.0
77	47.2	36.3	54.5
79	48.4	36.6	54.8

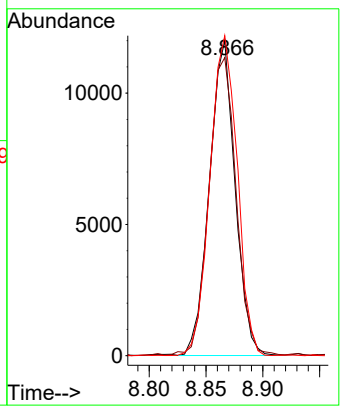




#18
Hexachloroethane
Concen: 5.127 ng
RT: 8.866 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:117 Resp: 1890

Ion	Ratio	Lower	Upper
117	100		
119	94.5	75.1	112.7
201	101.5	80.1	120.1



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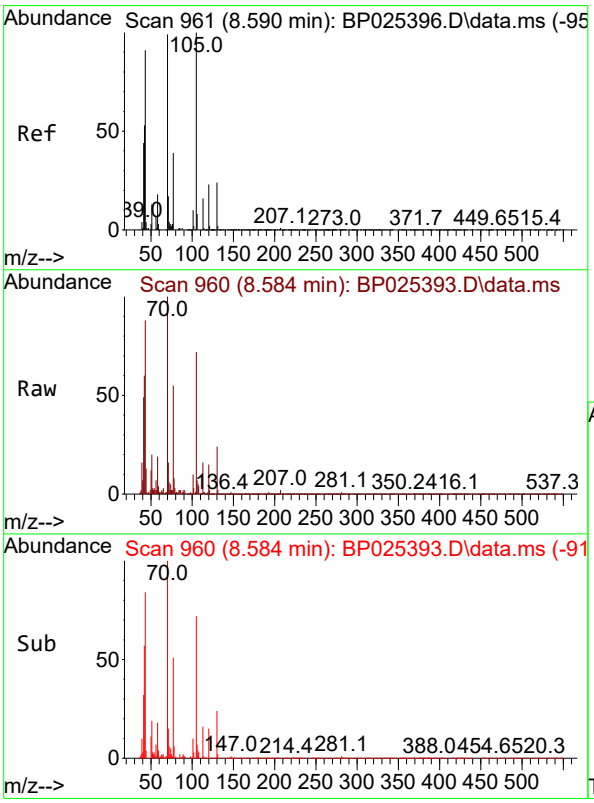
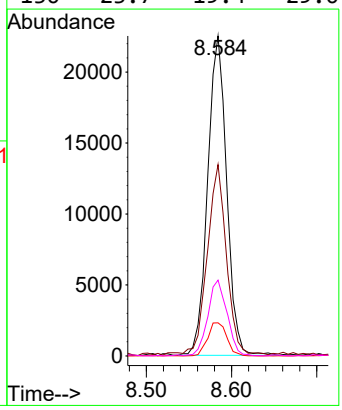
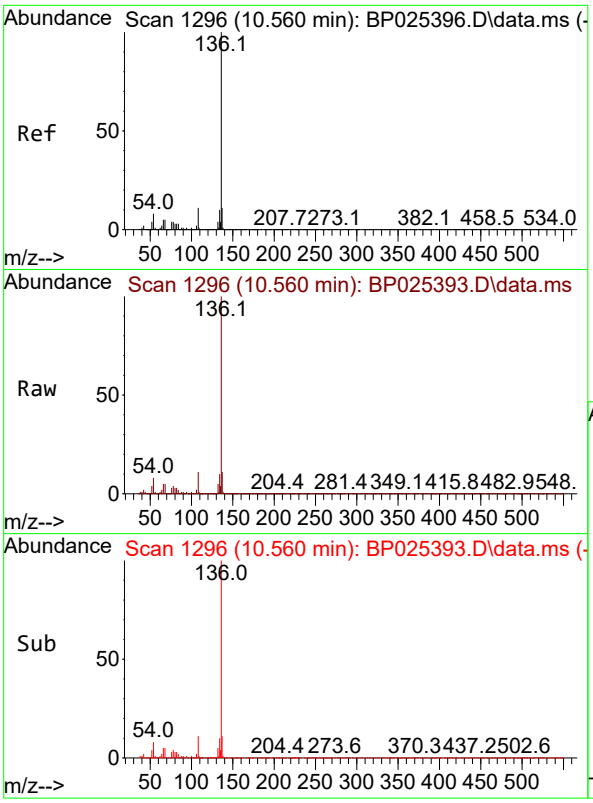


#19
n-Nitroso-di-n-propylamine
Concen: 5.205 ng
RT: 8.584 min Scan# 960
Delta R.T. -0.006 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion: 70 Resp: 34898

Ion	Ratio	Lower	Upper
70	100		
42	59.8	43.8	65.6
101	10.3	8.5	12.7
130	23.7	19.4	29.0

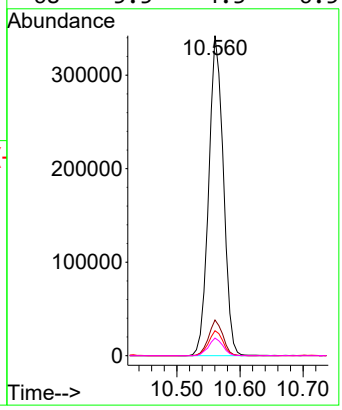




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.560 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:136 Resp: 55138

Ion	Ratio	Lower	Upper
136	100		
137	11.2	9.2	13.8
54	7.8	6.0	9.0
68	5.5	4.3	6.5



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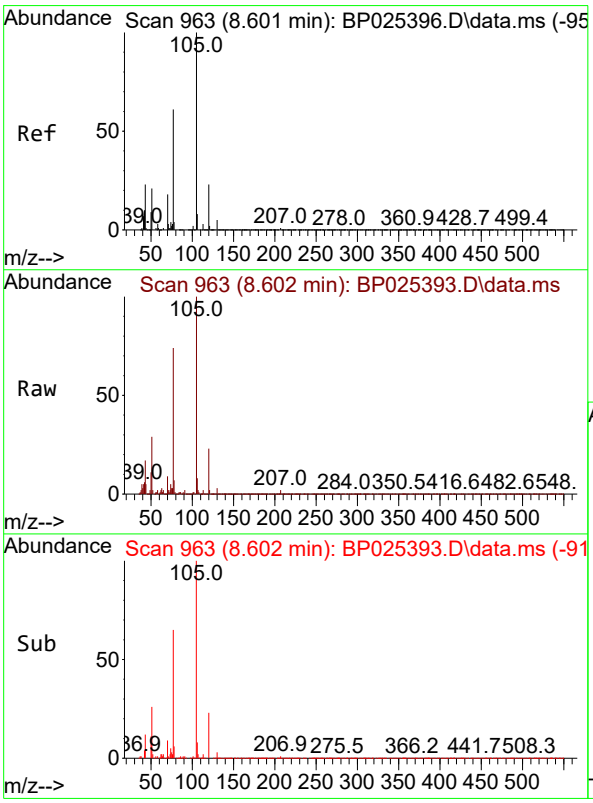
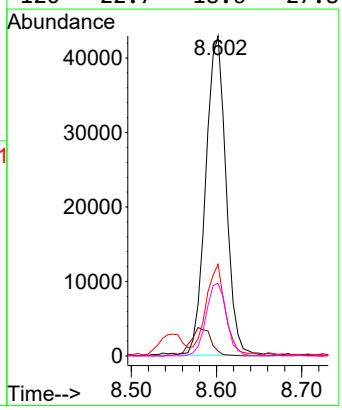
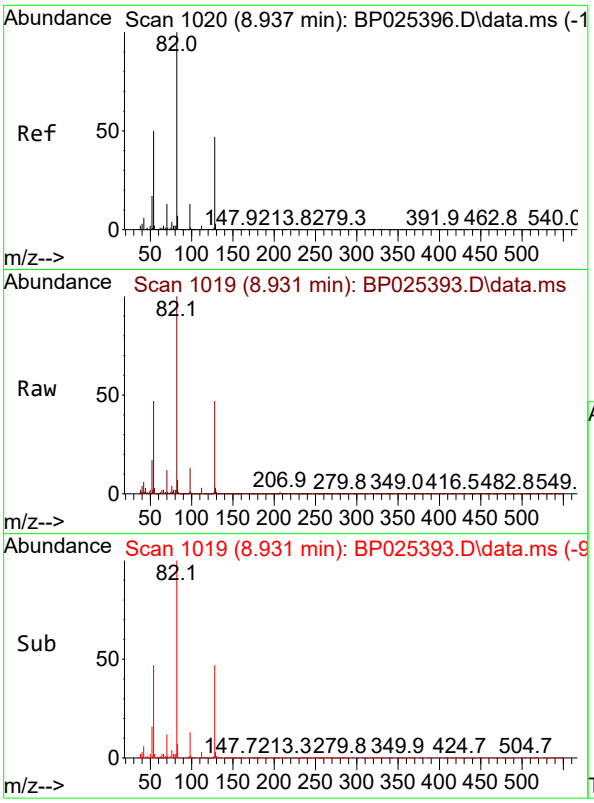


#22
Acetophenone
Concen: 5.134 ng
RT: 8.602 min Scan# 963
Delta R.T. 0.000 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:105 Resp: 70986

Ion	Ratio	Lower	Upper
105	100		
71	1.5	2.6	4.0#
51	28.7	20.6	30.8
120	22.7	18.6	27.8

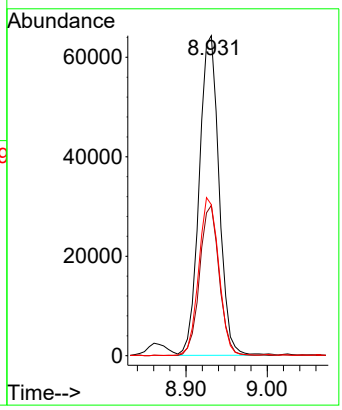




#23
Nitrobenzene-d5
Concen: 9.983 ng
RT: 8.931 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion: 82 Resp: 10881

Ion	Ratio	Lower	Upper
82	100		
128	47.0	37.7	56.5
54	47.2	39.8	59.6



Instrument :
BNA_P
ClientSampleId :
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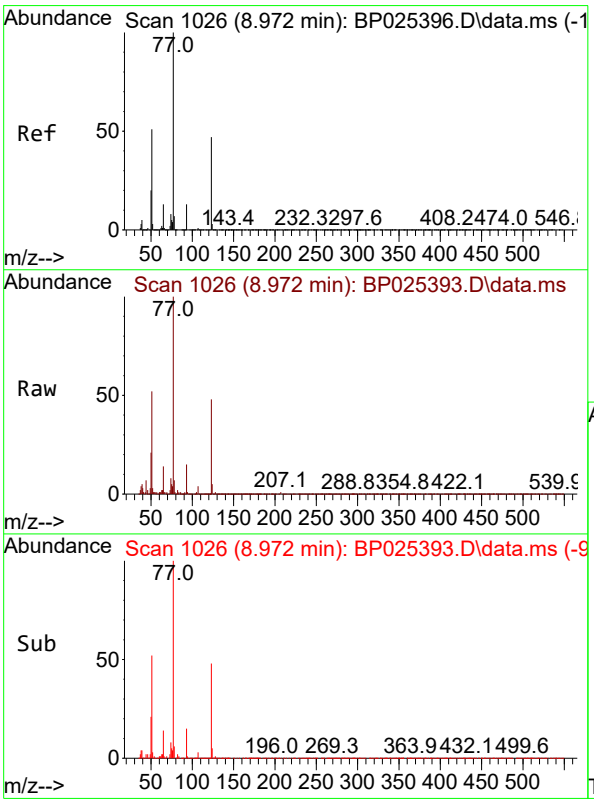
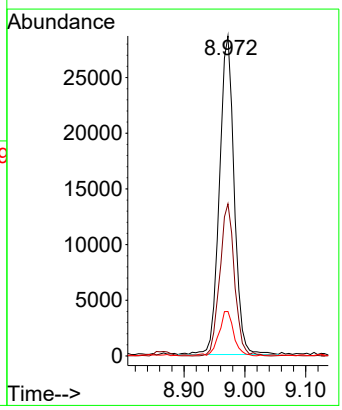
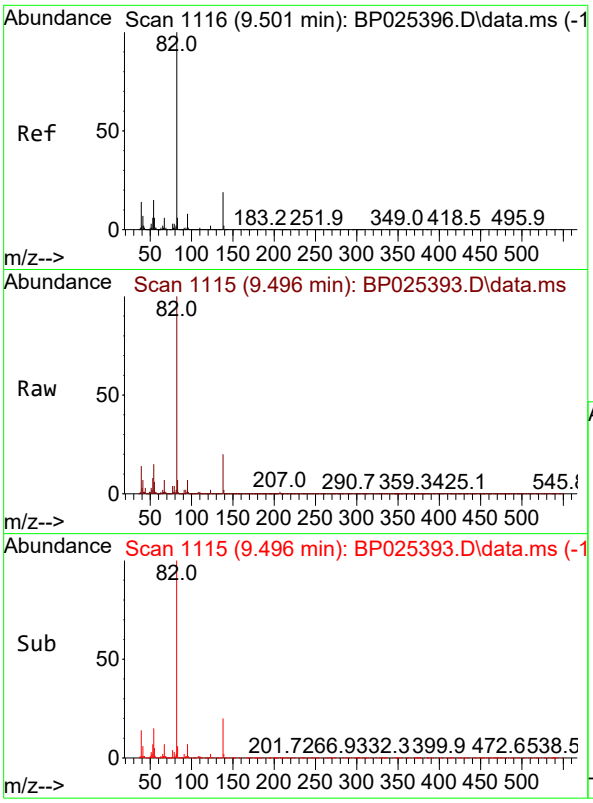


#24
Nitrobenzene
Concen: 4.951 ng
RT: 8.972 min Scan# 1026
Delta R.T. 0.000 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion: 77 Resp: 48234

Ion	Ratio	Lower	Upper
77	100		
123	47.6	38.6	58.0
65	13.9	10.6	15.8

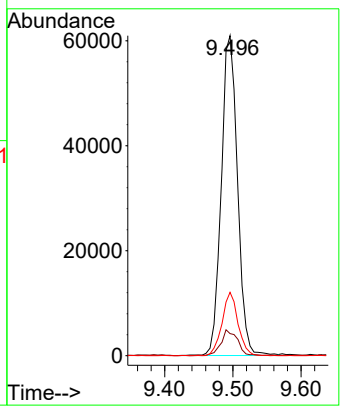




#25
Isophorone
Concen: 5.242 ng
RT: 9.496 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion: 82 Resp: 10111

Ion	Ratio	Lower	Upper
82	100		
95	6.9	6.4	9.6
138	19.8	15.4	23.0



Instrument :
BNA_P
ClientSampleId :
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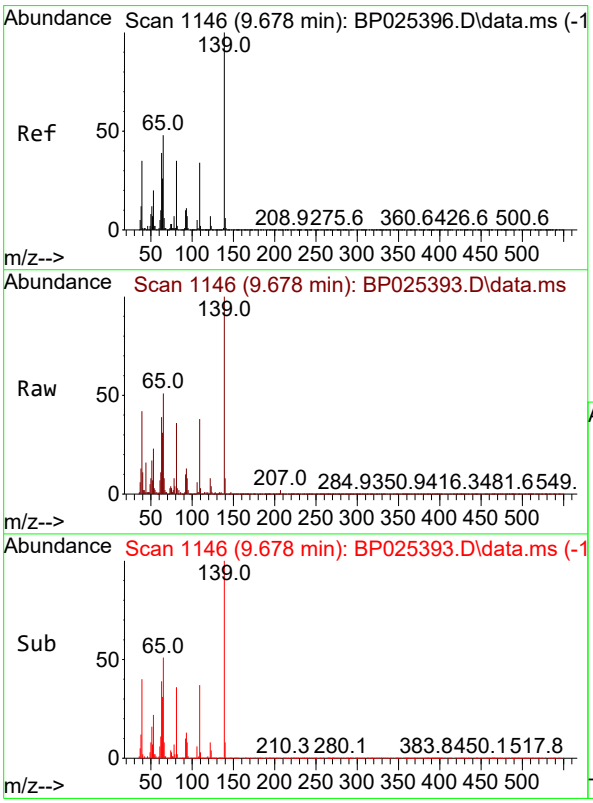
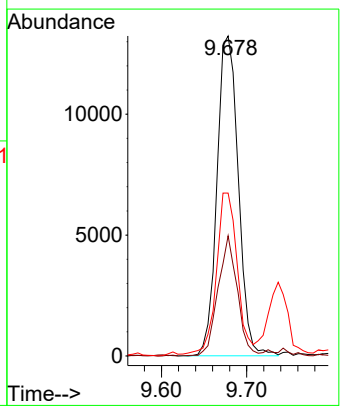
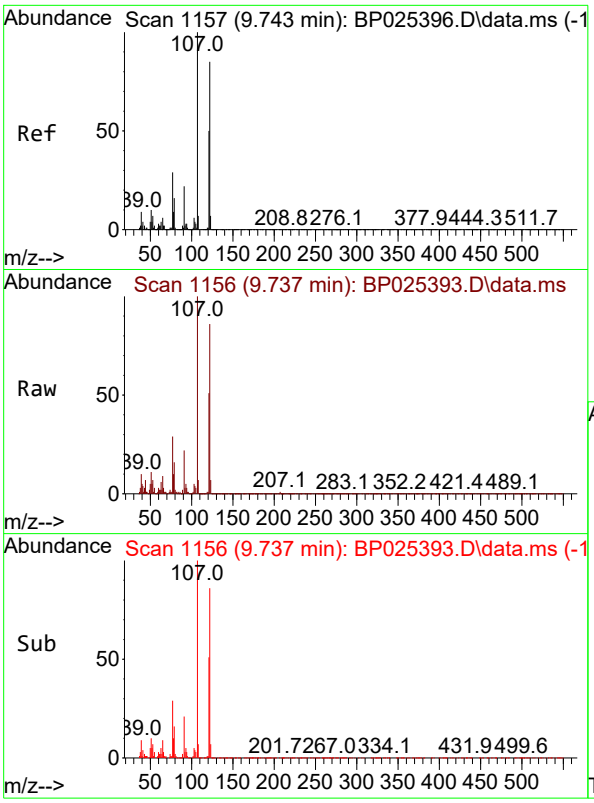


#26
2-Nitrophenol
Concen: 4.605 ng
RT: 9.678 min Scan# 1146
Delta R.T. 0.000 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:139 Resp: 23020

Ion	Ratio	Lower	Upper
139	100		
109	37.5	26.9	40.3
65	50.9	38.3	57.5

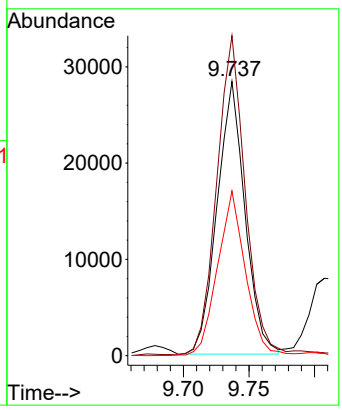




#27
2,4-Dimethylphenol
Concen: 4.861 ng
RT: 9.737 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:122 Resp: 4179

Ion	Ratio	Lower	Upper
122	100		
107	116.7	93.7	140.5
121	60.0	46.6	69.8



Instrument :
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ClientSampleId :
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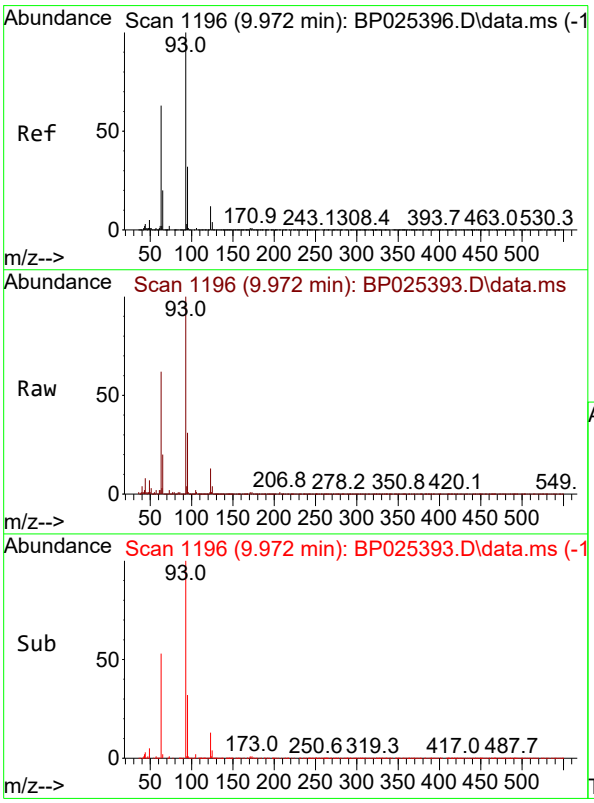
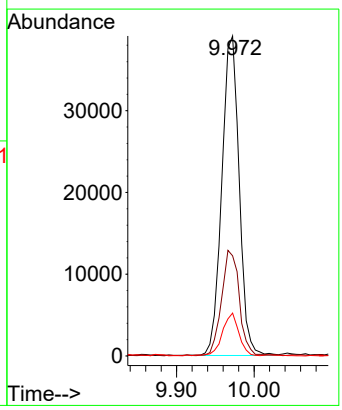
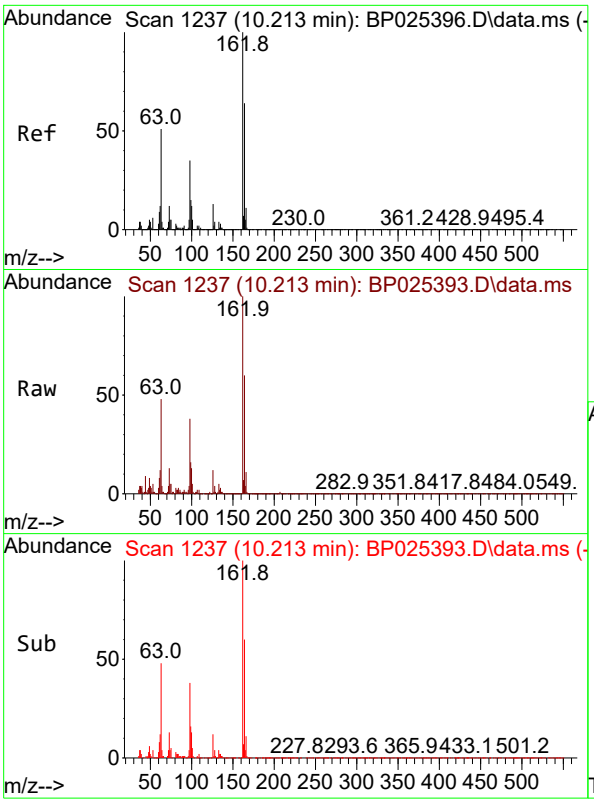


#28
bis(2-Chloroethoxy)methane
Concen: 5.233 ng
RT: 9.972 min Scan# 1196
Delta R.T. 0.000 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion: 93 Resp: 61017

Ion	Ratio	Lower	Upper
93	100		
95	31.3	25.4	38.0
123	13.4	9.4	14.0

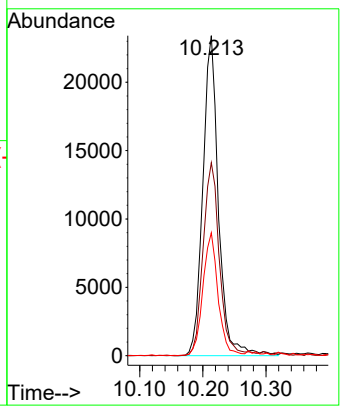




#29
2,4-Dichlorophenol
Concen: 4.723 ng
RT: 10.213 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:162 Resp: 4033

Ion	Ratio	Lower	Upper
162	100		
164	60.3	44.4	84.4
98	38.4	14.9	54.9



Instrument :
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ClientSampleId :
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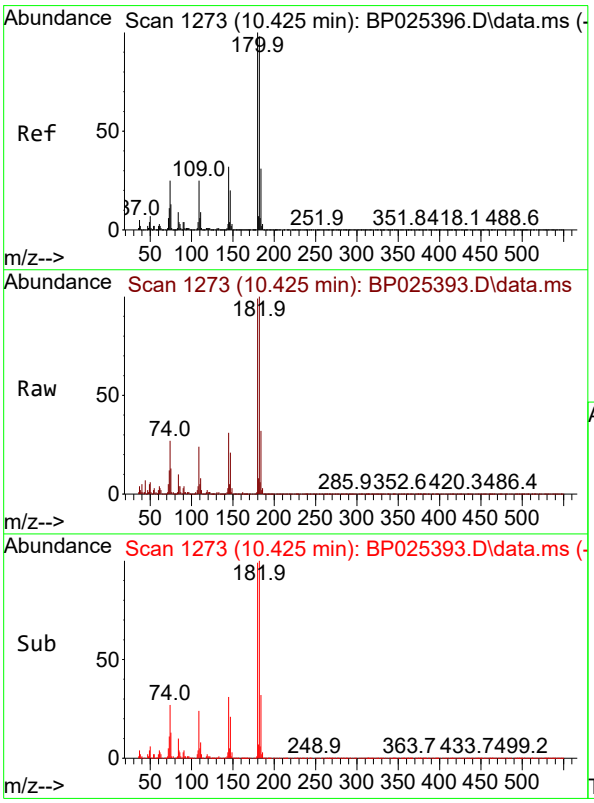
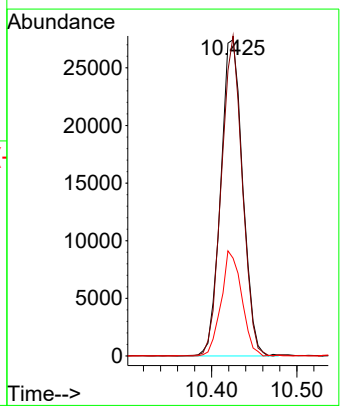
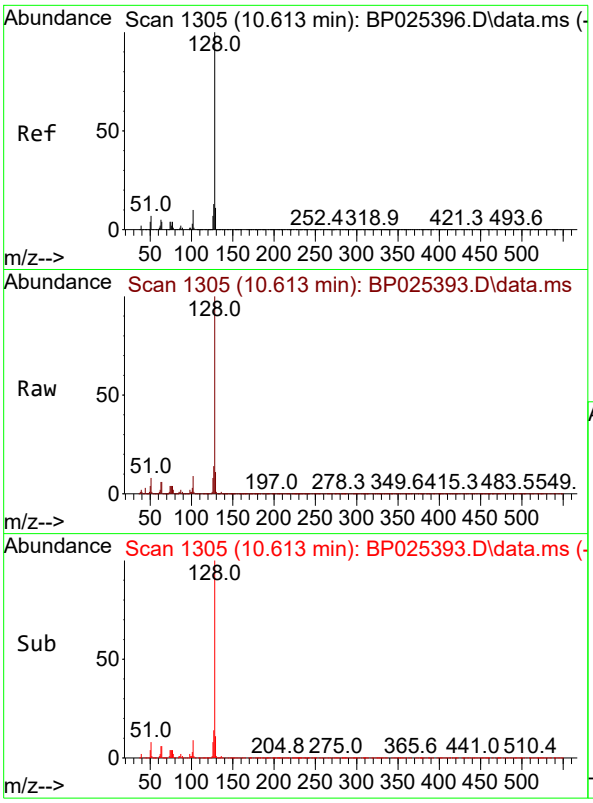


#30
1,2,4-Trichlorobenzene
Concen: 5.259 ng
RT: 10.425 min Scan# 1273
Delta R.T. 0.000 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:180 Resp: 49237

Ion	Ratio	Lower	Upper
180	100		
182	101.2	78.0	117.0
145	30.9	25.9	38.9

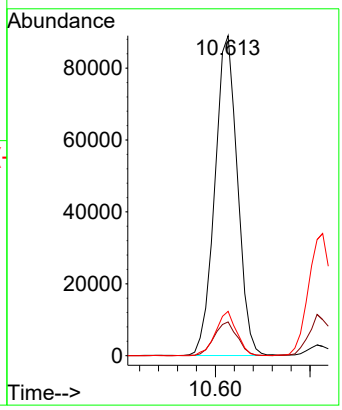




#31
Naphthalene
Concen: 5.141 ng
RT: 10.613 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:128 Resp: 14734

Ion	Ratio	Lower	Upper
128	100		
129	10.6	8.6	13.0
127	13.9	10.7	16.1



Instrument :
BNA_P
ClientSampleId :
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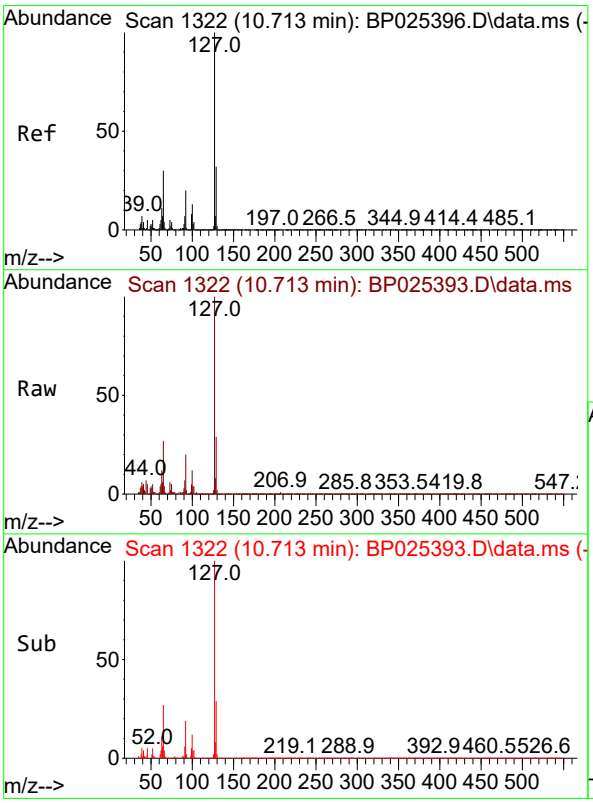
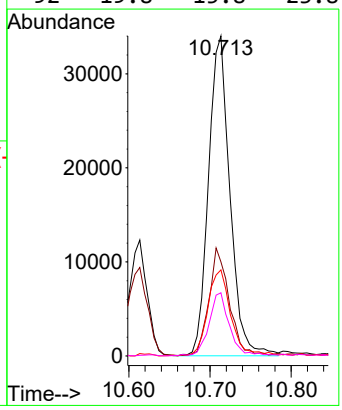
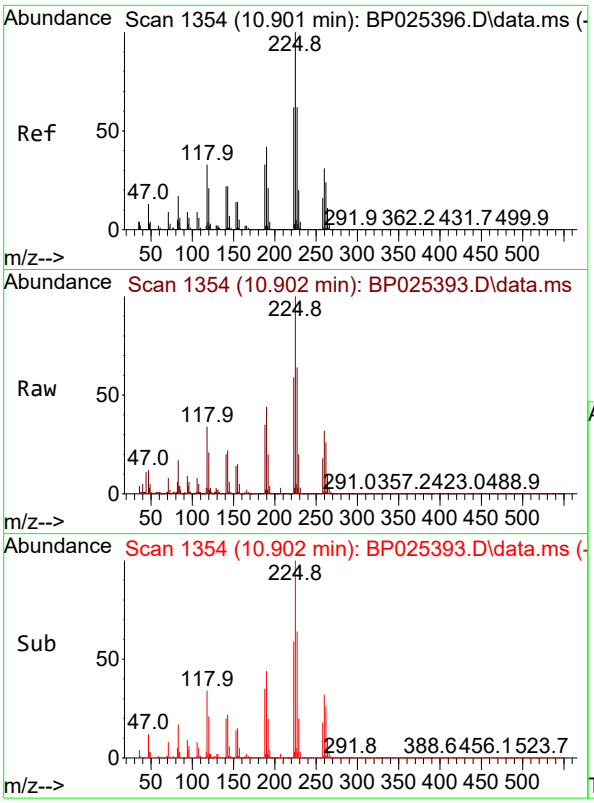


#33
4-Chloroaniline
Concen: 4.933 ng
RT: 10.713 min Scan# 1322
Delta R.T. 0.000 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:127 Resp: 62452

Ion	Ratio	Lower	Upper
127	100		
129	29.4	25.4	38.2
65	26.9	23.8	35.6
92	19.8	15.8	23.8

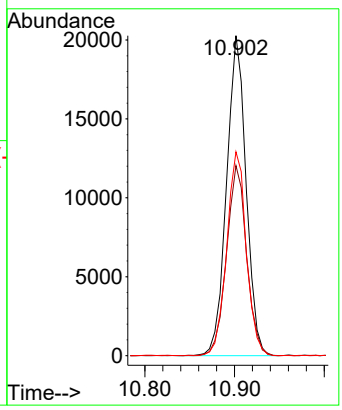




#34
Hexachlorobutadiene
Concen: 5.241 ng
RT: 10.902 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:225 Resp: 3055

Ion	Ratio	Lower	Upper
225	100		
223	59.4	50.0	75.0
227	66.3	49.7	74.5



Instrument :
BNA_P
ClientSampleId :
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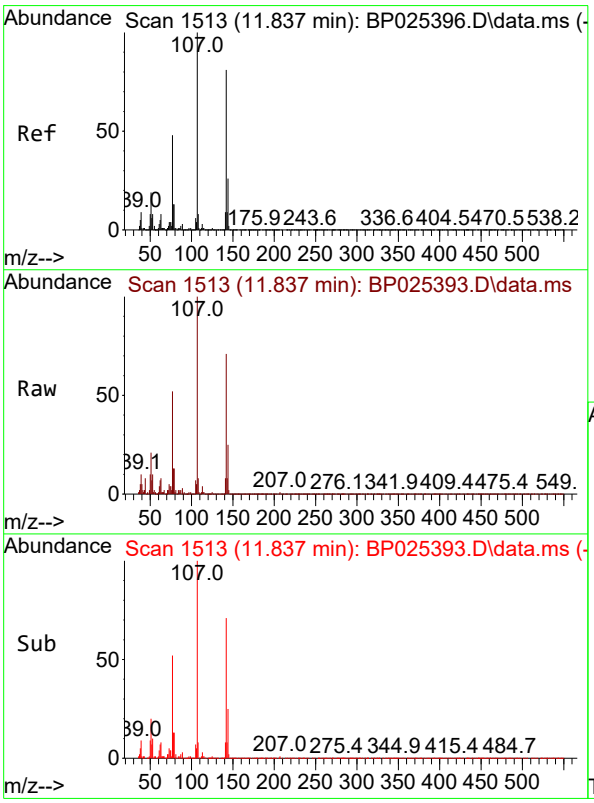
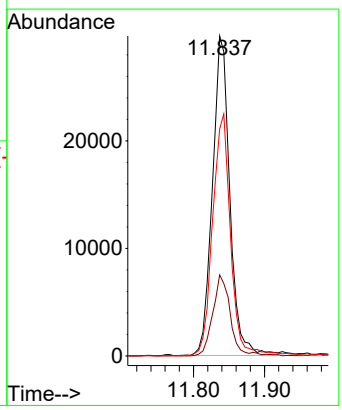
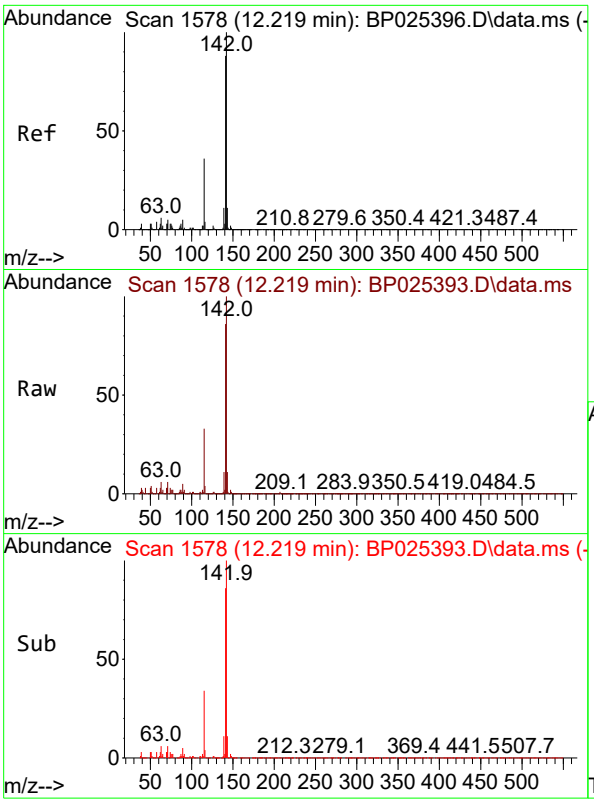


#36
4-Chloro-3-methylphenol
Concen: 5.154 ng
RT: 11.837 min Scan# 1513
Delta R.T. 0.000 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:107 Resp: 50515

Ion	Ratio	Lower	Upper
107	100		
144	25.4	21.0	31.4
142	70.9	64.6	97.0

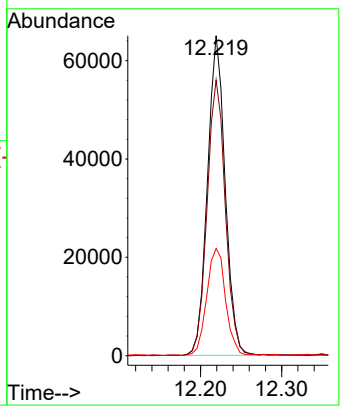




#37
2-Methylnaphthalene
Concen: 5.289 ng
RT: 12.219 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:142 Resp: 9864

Ion	Ratio	Lower	Upper
142	100		
141	86.1	70.3	105.5
115	33.5	28.9	43.3



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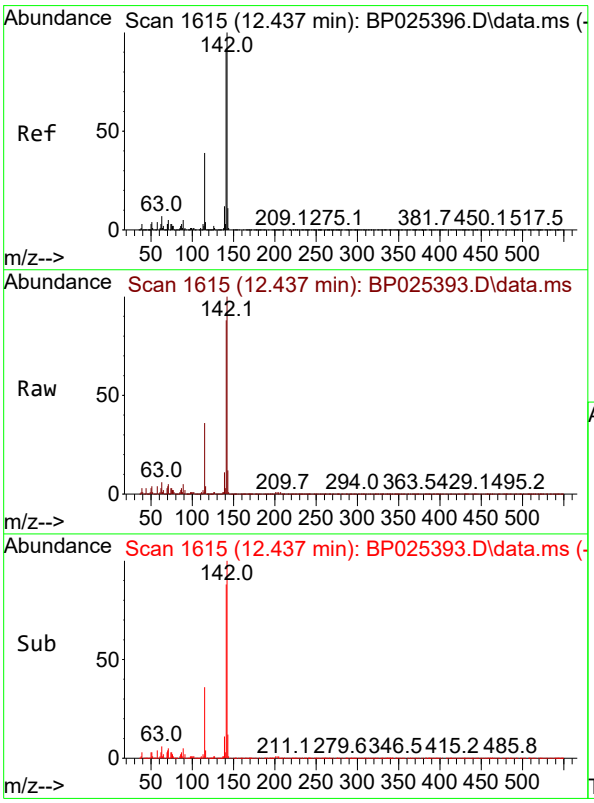
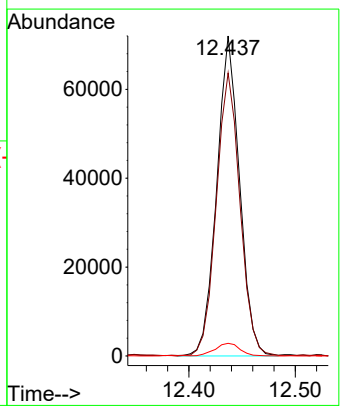
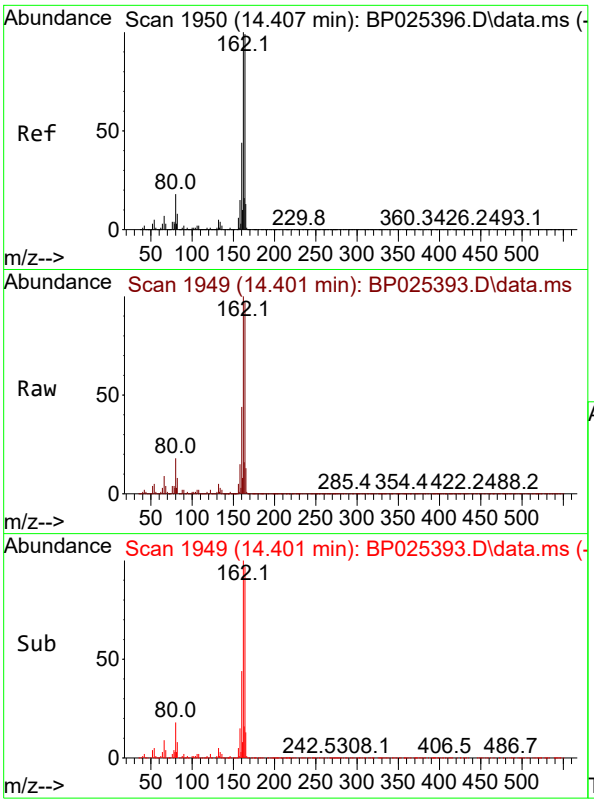


#38
1-Methylnaphthalene
Concen: 5.397 ng
RT: 12.437 min Scan# 1615
Delta R.T. 0.000 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:142 Resp: 107044

Ion	Ratio	Lower	Upper
142	100		
141	88.4	73.1	109.7
116	3.9	3.2	4.8

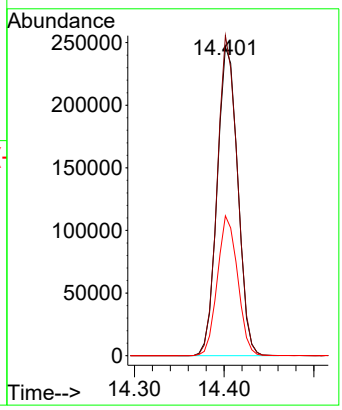




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.401 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:164 Resp: 39237

Ion	Ratio	Lower	Upper
164	100		
162	103.6	81.0	121.6
160	45.3	35.4	53.2



Instrument :
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ClientSampleId :
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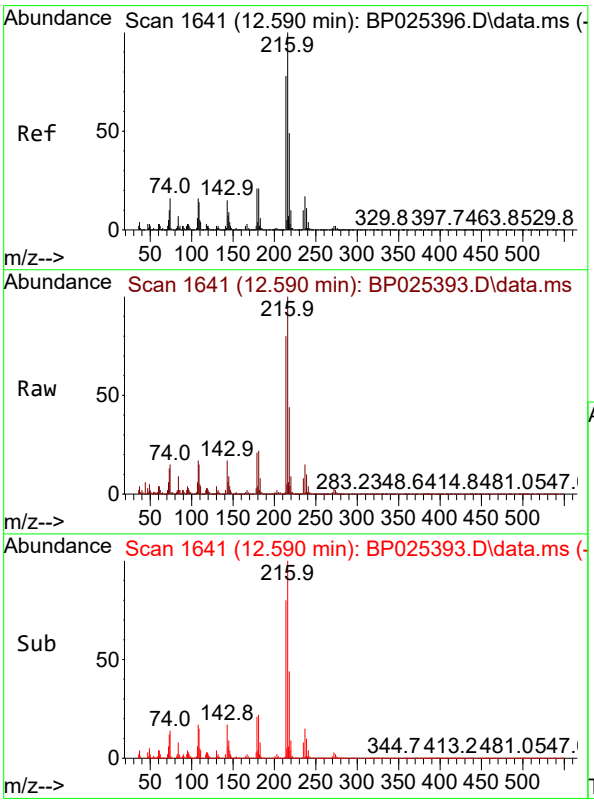
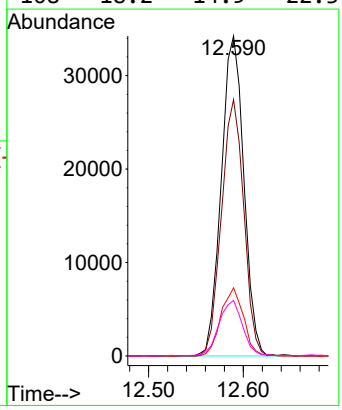
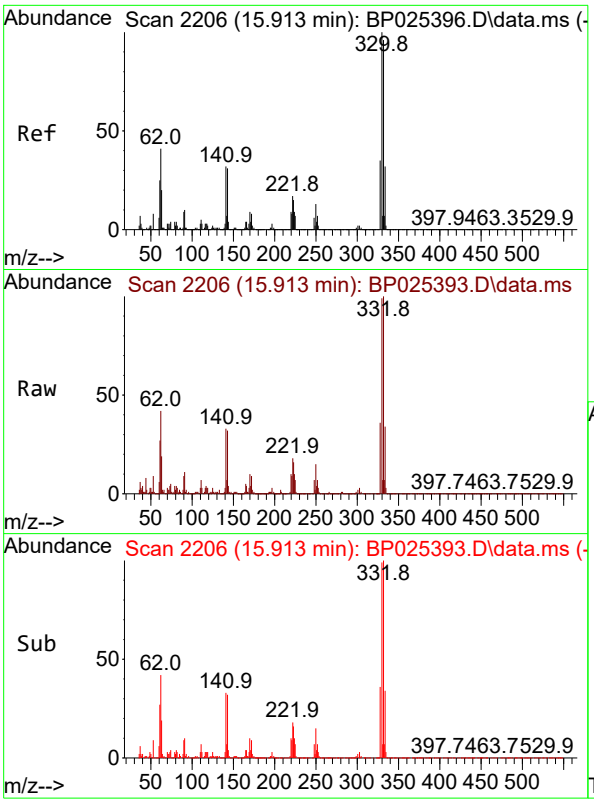


#40
1,2,4,5-Tetrachlorobenzene
Concen: 5.001 ng
RT: 12.590 min Scan# 1641
Delta R.T. 0.000 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:216 Resp: 56676

Ion	Ratio	Lower	Upper
216	100		
214	79.1	63.0	94.4
179	21.3	17.1	25.7
108	18.2	14.9	22.3

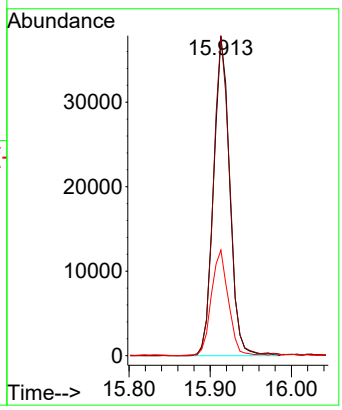




#42
2,4,6-Tribromophenol
Concen: 9.881 ng
RT: 15.913 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:330 Resp: 5218

Ion	Ratio	Lower	Upper
330	100		
332	100.4	77.3	115.9
141	34.9	26.6	39.8



Instrument :
BNA_P
ClientSampleId :
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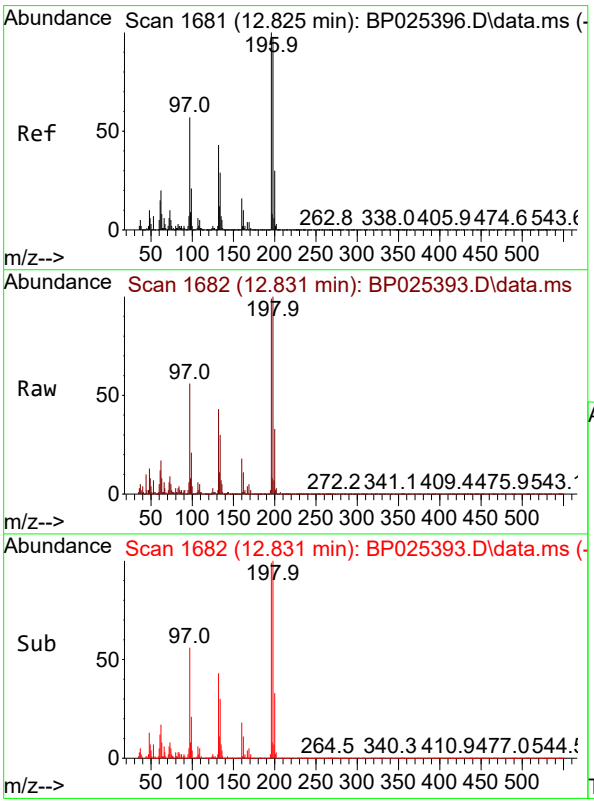
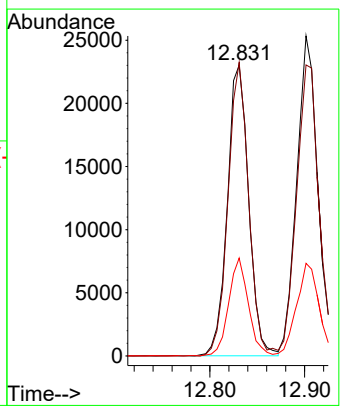
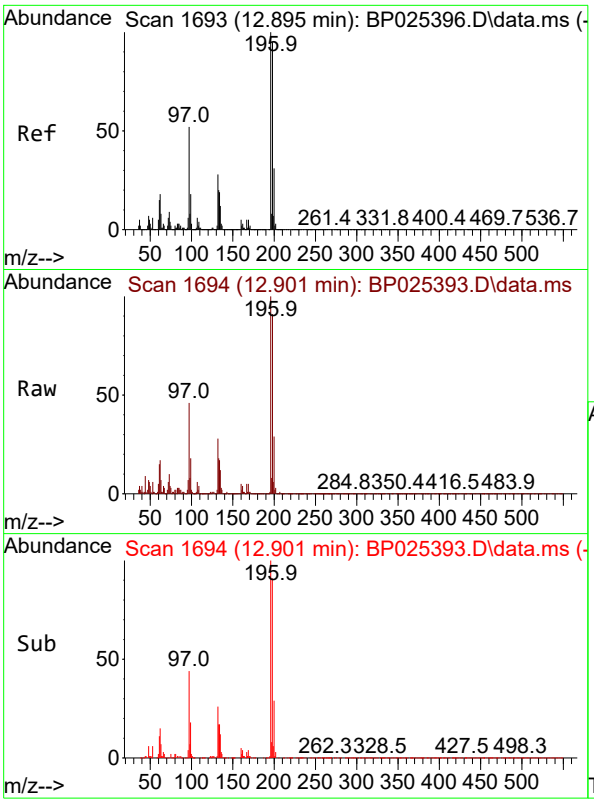


#43
2,4,6-Trichlorophenol
Concen: 4.718 ng
RT: 12.831 min Scan# 1682
Delta R.T. 0.006 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:196 Resp: 36093

Ion	Ratio	Lower	Upper
196	100		
198	101.0	77.2	115.8
200	33.7	23.9	35.9

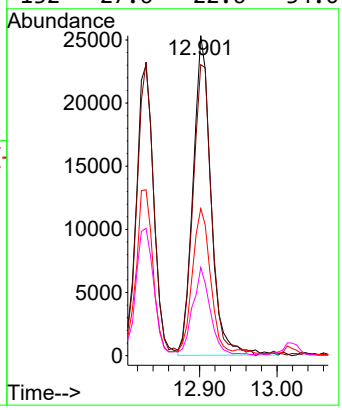




#44
2,4,5-Trichlorophenol
Concen: 4.875 ng
RT: 12.901 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:196 Resp: 4087

Ion	Ratio	Lower	Upper
196	100		
198	91.0	76.2	114.2
97	46.0	41.2	61.8
132	27.6	22.6	34.0



Instrument :
BNA_P
ClientSampleId :
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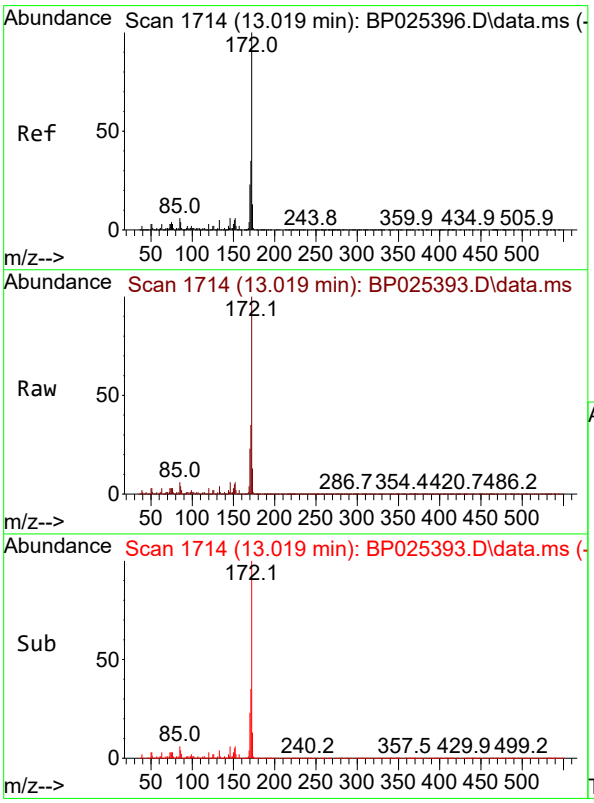
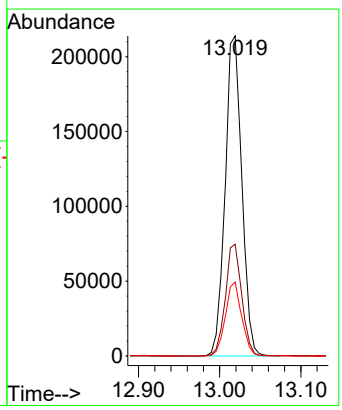
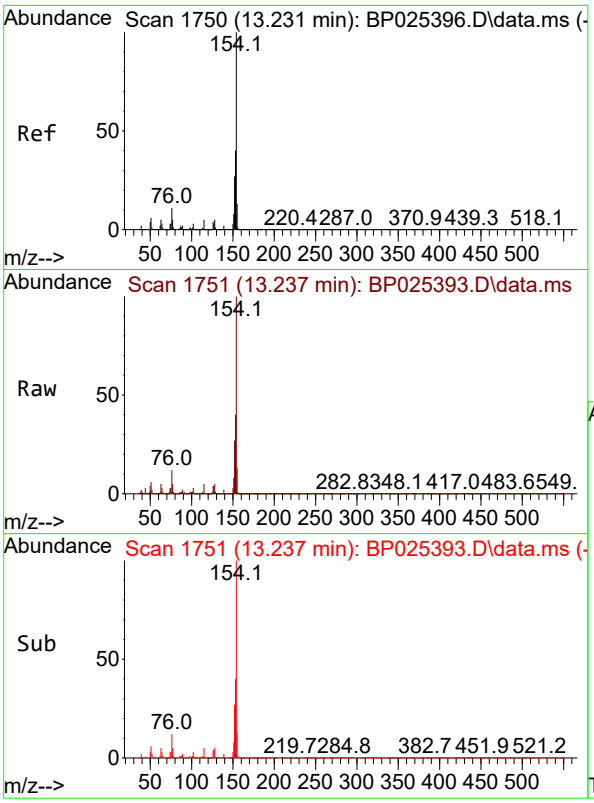


#45
2-Fluorobiphenyl
Concen: 10.649 ng
RT: 13.019 min Scan# 1714
Delta R.T. 0.000 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:172 Resp: 305742

Ion	Ratio	Lower	Upper
172	100		
171	34.9	28.1	42.1
170	23.1	18.6	28.0

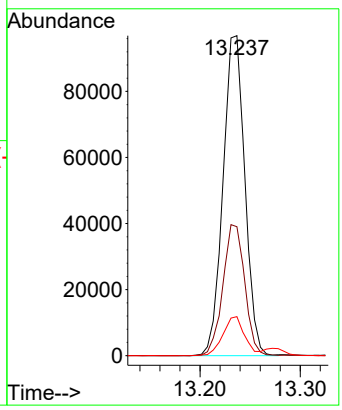




#46
1,1'-Biphenyl
Concen: 5.146 ng
RT: 13.237 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:154 Resp: 14665

Ion	Ratio	Lower	Upper
154	100		
153	40.3	19.5	59.5
76	12.2	0.0	31.1



Instrument :
BNA_P
ClientSampleId :
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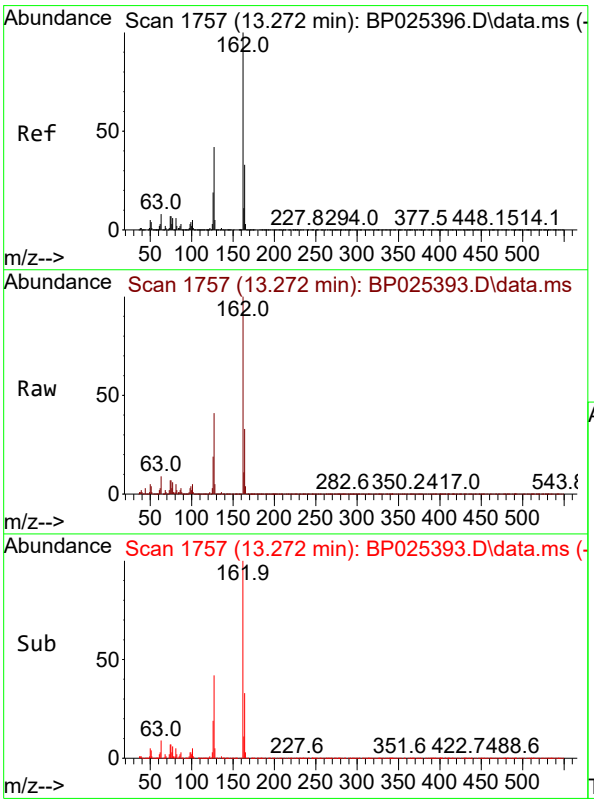
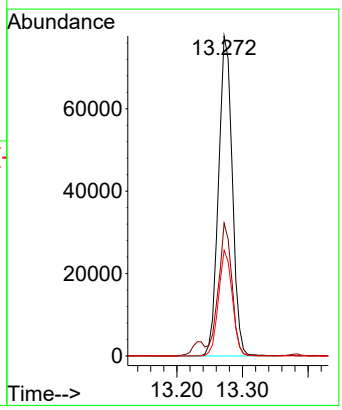
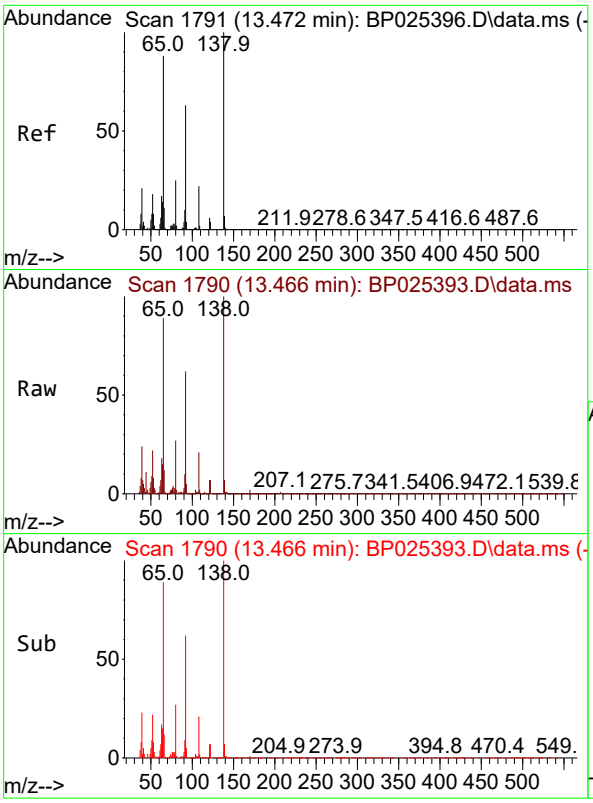


#47
2-Chloronaphthalene
Concen: 5.094 ng
RT: 13.272 min Scan# 1757
Delta R.T. 0.000 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:162 Resp: 113015

Ion	Ratio	Lower	Upper
162	100		
127	41.5	33.4	50.2
164	33.0	26.2	39.2

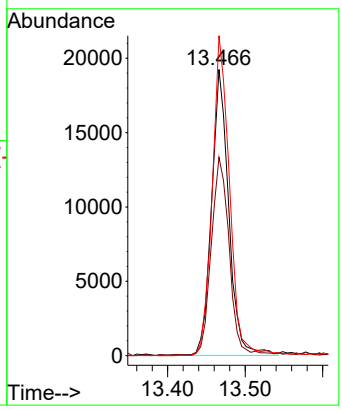




#48
2-Nitroaniline
Concen: 4.568 ng
RT: 13.466 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion: 65 Resp: 2952

Ion	Ratio	Lower	Upper
65	100		
92	69.3	57.6	86.4
138	111.8	91.0	136.6



Instrument :
BNA_P
ClientSampleId :
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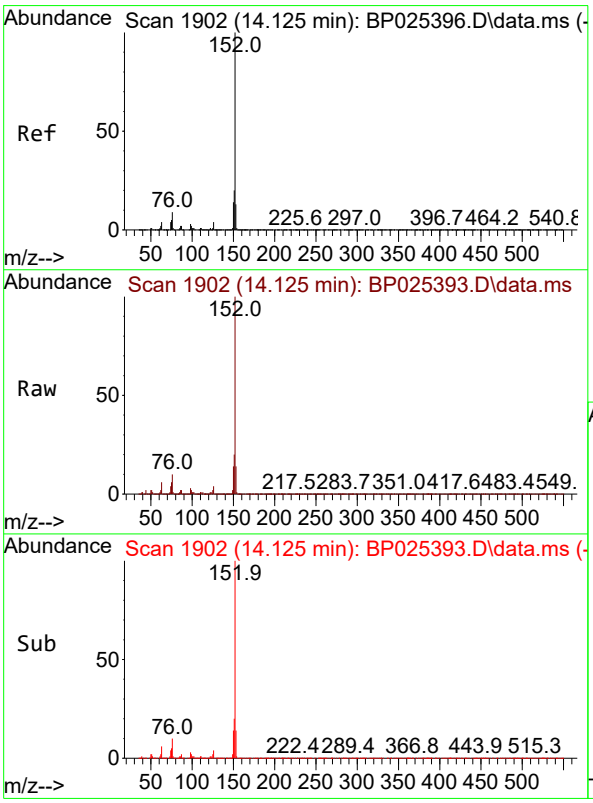
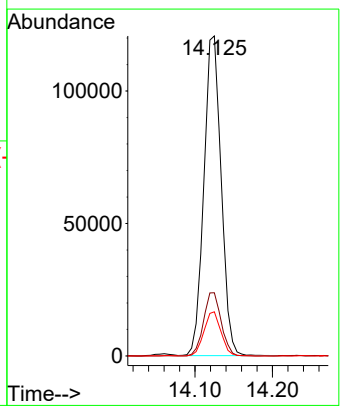
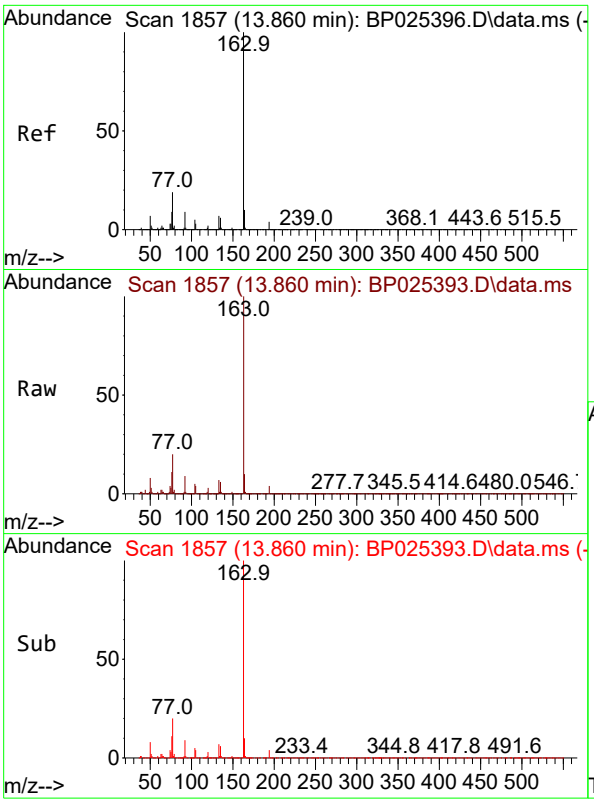


#49
Acenaphthylene
Concen: 5.095 ng
RT: 14.125 min Scan# 1902
Delta R.T. 0.000 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:152 Resp: 187026

Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.0	24.0
153	13.8	10.6	15.8

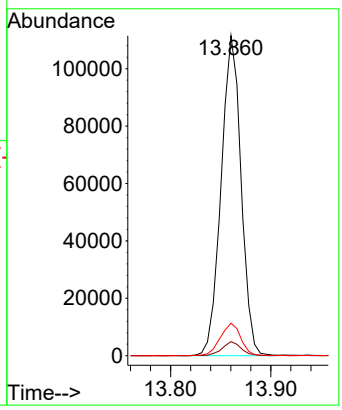




#50
Dimethylphthalate
Concen: 5.355 ng
RT: 13.860 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:163 Resp: 15386

Ion	Ratio	Lower	Upper
163	100		
194	4.4	3.4	5.0
164	10.1	7.9	11.9



Instrument :
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ClientSampleId :
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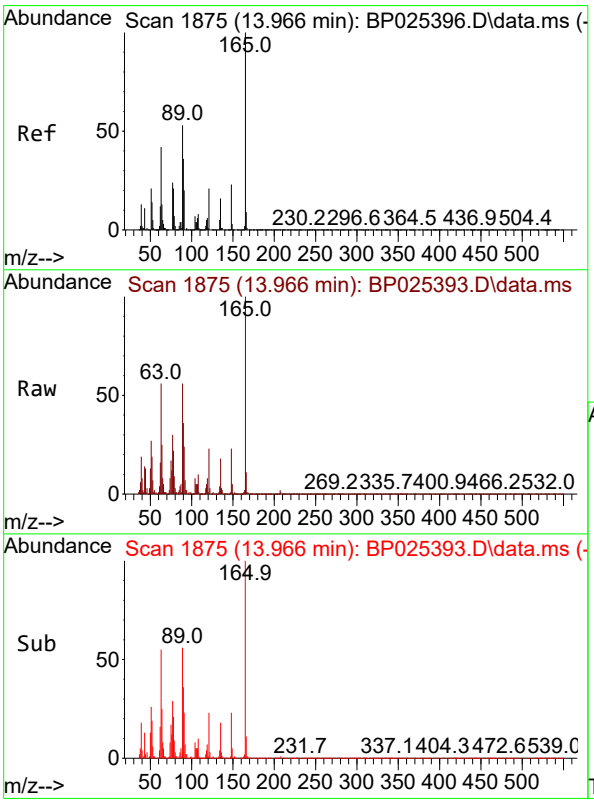
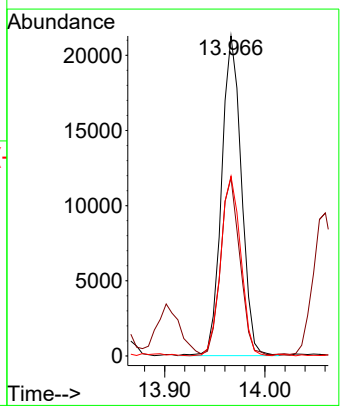
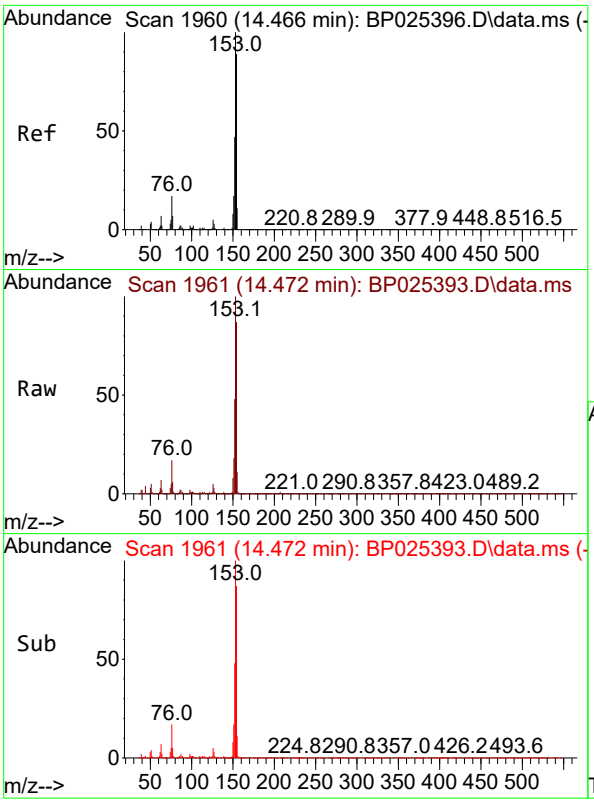


#51
2,6-Dinitrotoluene
Concen: 4.803 ng
RT: 13.966 min Scan# 1875
Delta R.T. 0.000 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:165 Resp: 29088

Ion	Ratio	Lower	Upper
165	100		
63	55.7	40.9	61.3
89	56.2	42.1	63.1

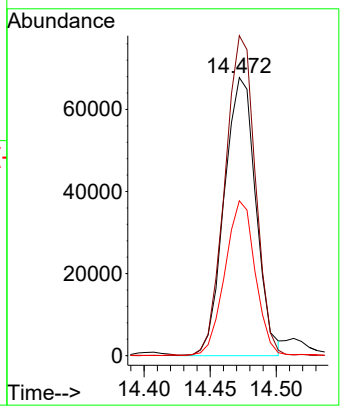




#52
Acenaphthene
Concen: 5.232 ng m
RT: 14.472 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:154 Resp: 11273

Ion	Ratio	Lower	Upper
154	100		
153	115.1	90.2	135.2
152	55.7	42.1	63.1



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

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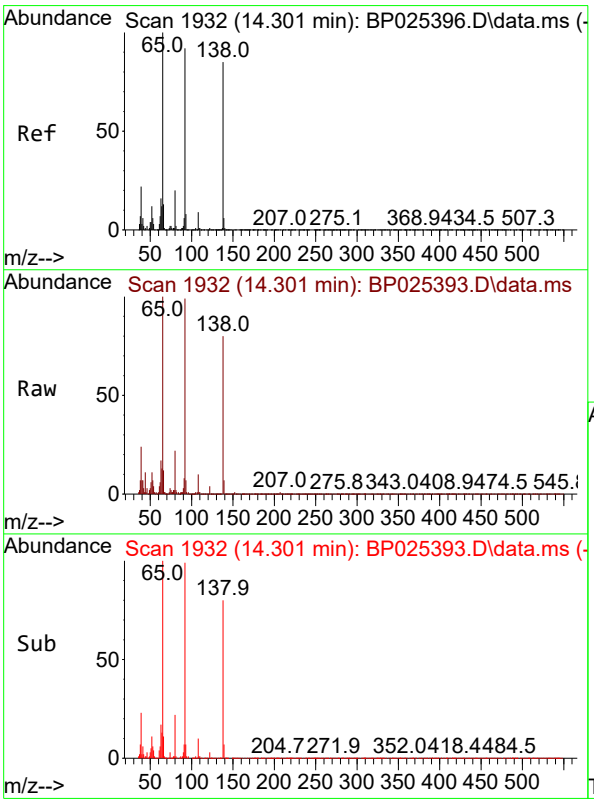
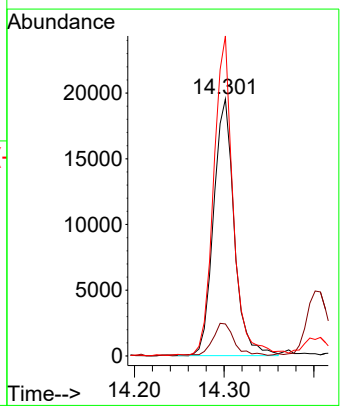
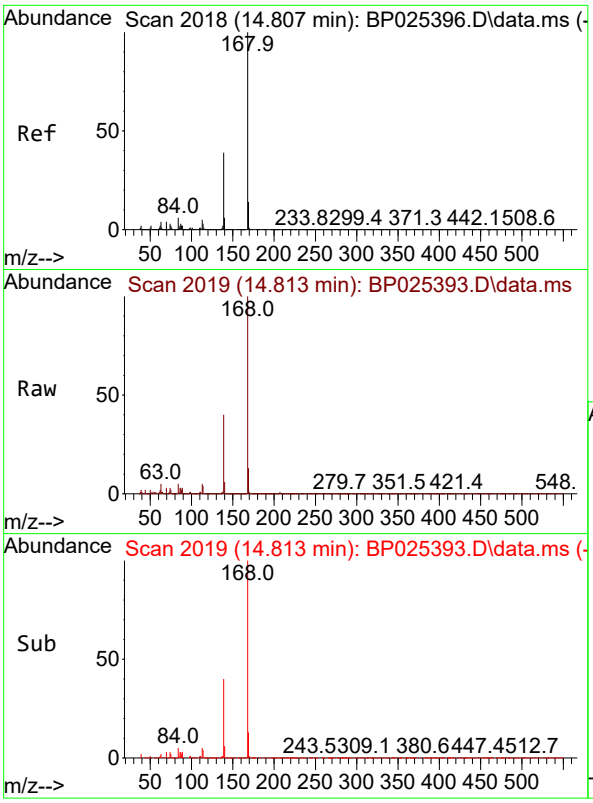


#53
3-Nitroaniline
Concen: 4.583 ng
RT: 14.301 min Scan# 1932
Delta R.T. 0.000 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:138 Resp: 31224

Ion	Ratio	Lower	Upper
138	100		
108	12.5	8.3	12.5
92	124.5	86.2	129.2

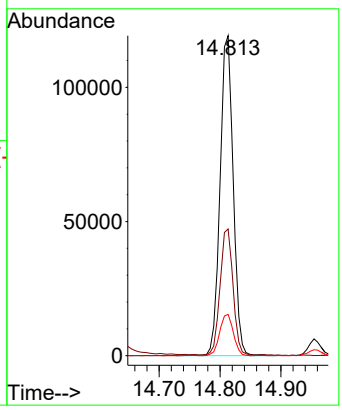




#55
Dibenzofuran
Concen: 5.240 ng
RT: 14.813 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:168 Resp: 17849

Ion	Ratio	Lower	Upper
168	100		
139	39.6	31.5	47.3
169	12.9	10.9	16.3



Instrument :
BNA_P
ClientSampleId :
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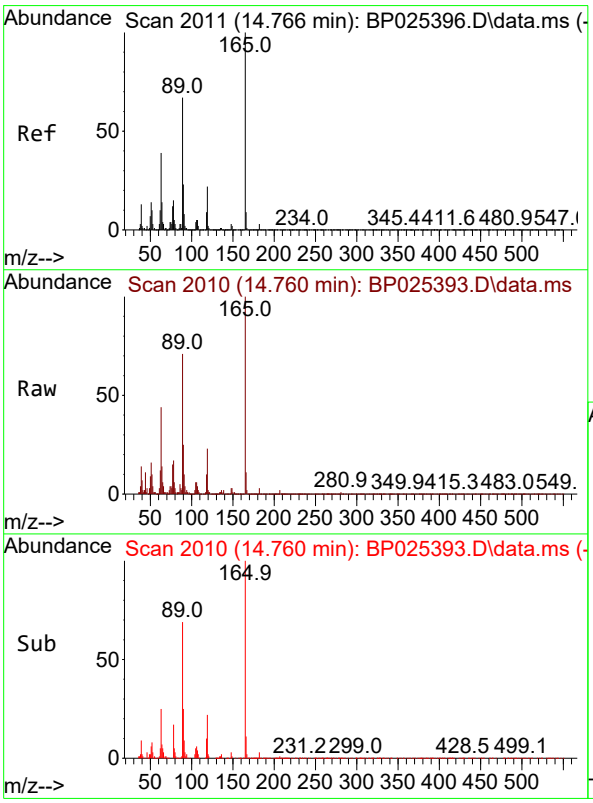
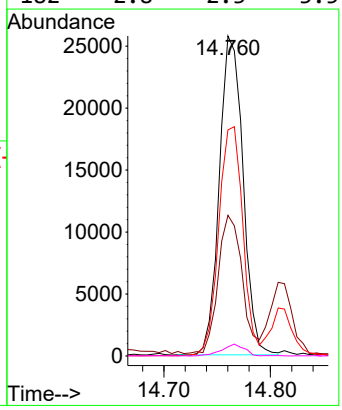
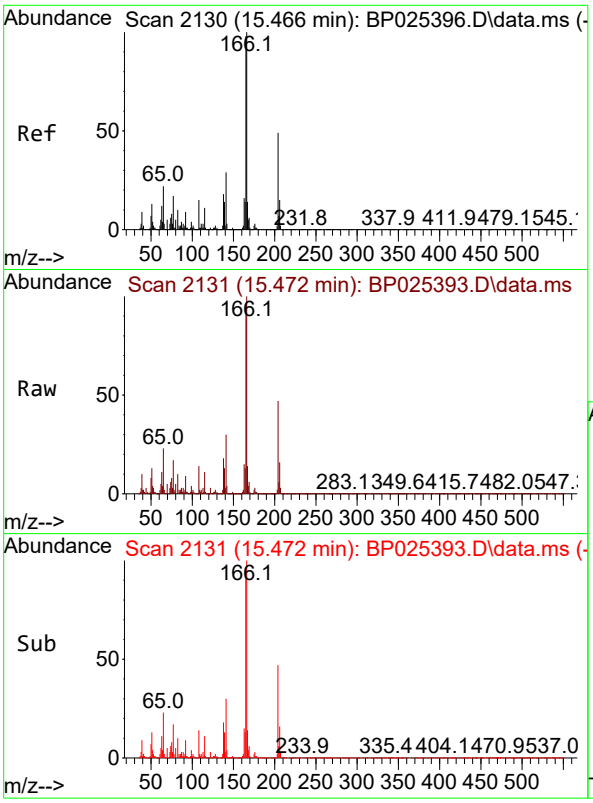


#57
2,4-Dinitrotoluene
Concen: 4.590 ng
RT: 14.760 min Scan# 2010
Delta R.T. -0.006 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:165 Resp: 39658

Ion	Ratio	Lower	Upper
165	100		
63	43.9	31.4	47.2
89	70.6	53.3	79.9
182	2.8	2.3	3.5

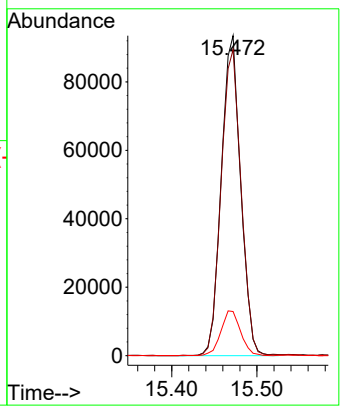




#58
Fluorene
Concen: 5.497 ng
RT: 15.472 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:166 Resp: 14776

Ion	Ratio	Lower	Upper
166	100		
165	95.7	78.8	118.2
167	13.8	11.0	16.4



Instrument :
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ClientSampleId :
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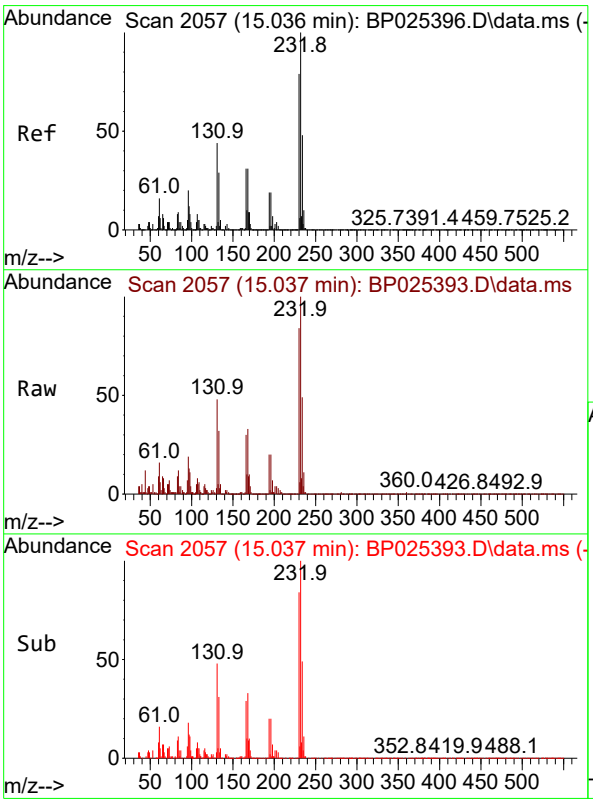
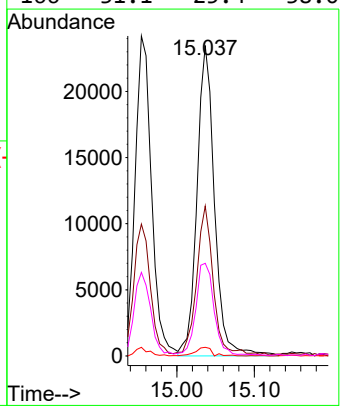
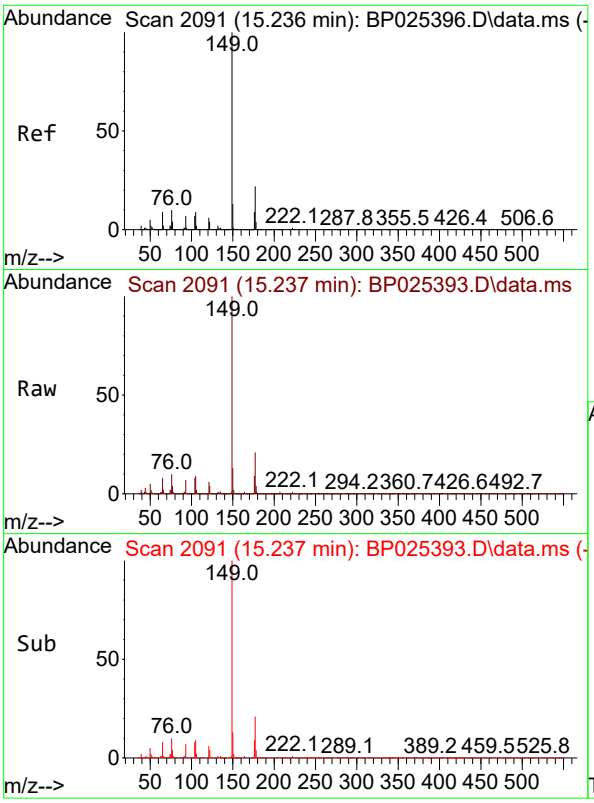


#59
2,3,4,6-Tetrachlorophenol
Concen: 4.968 ng
RT: 15.037 min Scan# 2057
Delta R.T. 0.000 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:232 Resp: 36779

Ion	Ratio	Lower	Upper
232	100		
131	46.0	37.0	55.6
130	2.7	1.9	2.9
166	31.1	25.4	38.0

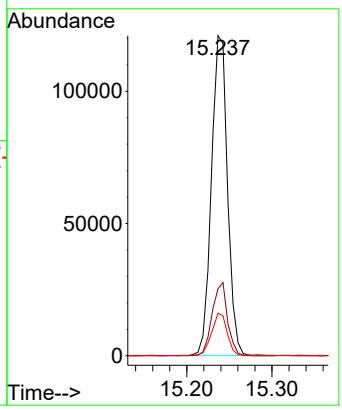




#60
Diethylphthalate
Concen: 5.426 ng
RT: 15.237 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:149 Resp: 15842

Ion	Ratio	Lower	Upper
149	100		
177	20.9	17.3	25.9
150	13.3	10.3	15.5



Instrument :
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ClientSampleId :
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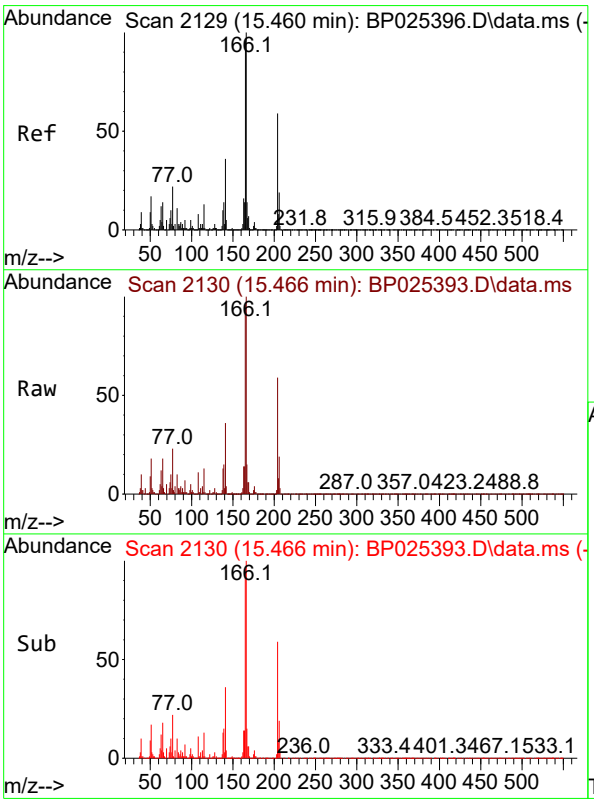
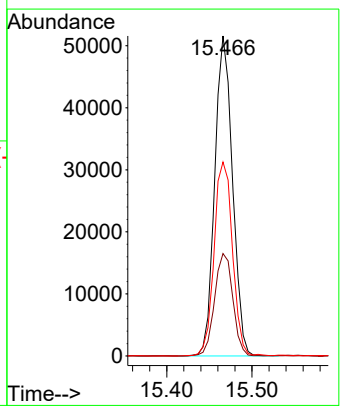
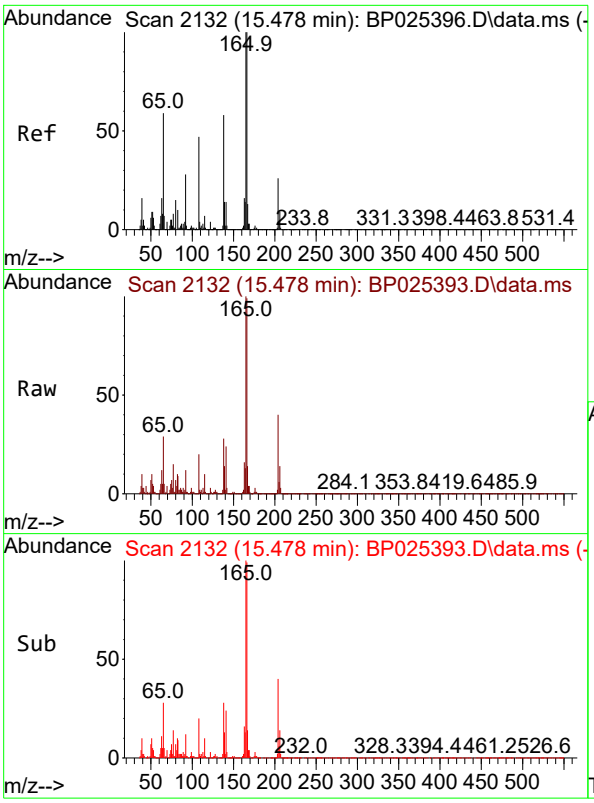


#61
4-Chlorophenyl-phenylether
Concen: 5.583 ng
RT: 15.466 min Scan# 2130
Delta R.T. 0.006 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:204 Resp: 74636

Ion	Ratio	Lower	Upper
204	100		
206	32.0	25.8	38.8
141	60.6	49.4	74.2

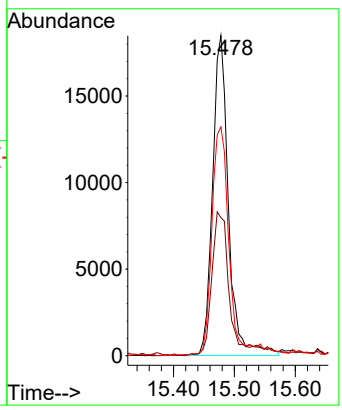




#62
4-Nitroaniline
Concen: 4.791 ng
RT: 15.478 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:138 Resp: 3346

Ion	Ratio	Lower	Upper
138	100		
92	43.2	29.1	69.1
108	71.5	61.5	101.5



Instrument :
BNA_P
ClientSampleId :
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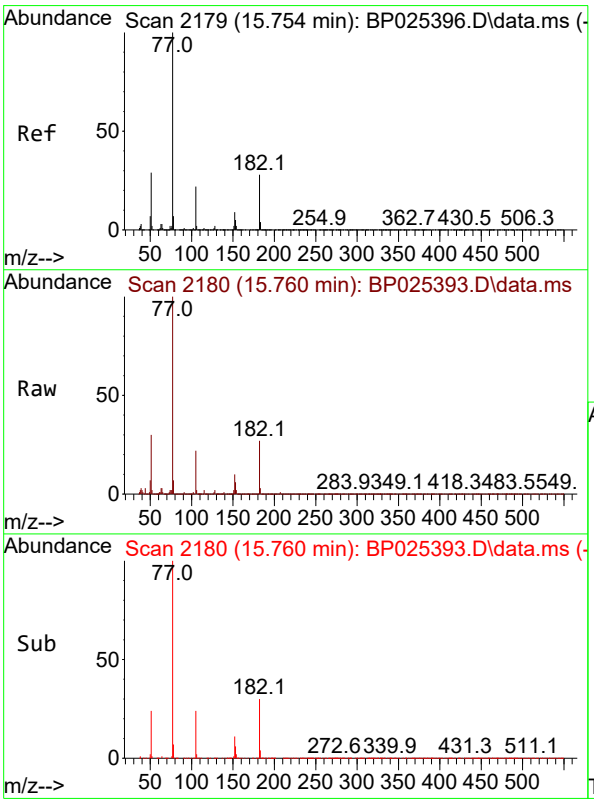
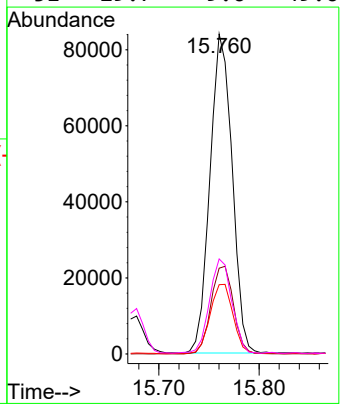
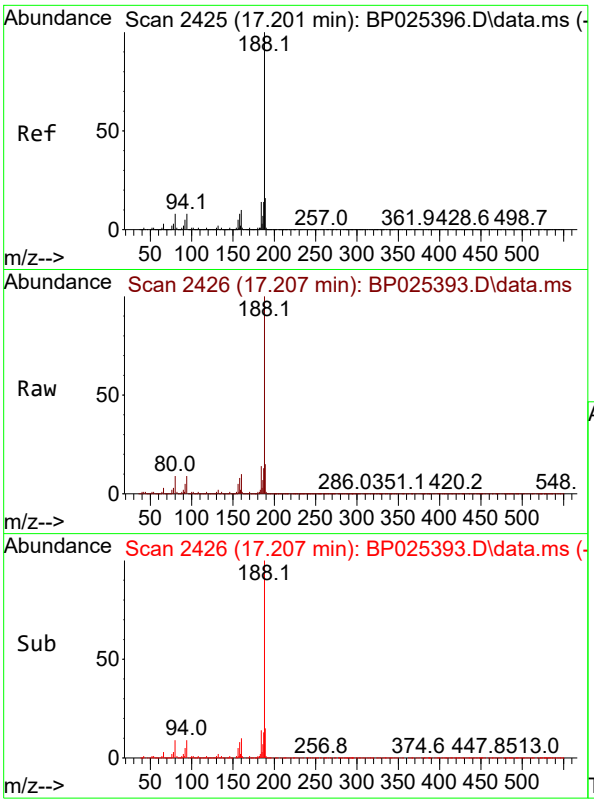


#63
Azobenzene
Concen: 5.159 ng
RT: 15.760 min Scan# 2180
Delta R.T. 0.006 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion: 77 Resp: 128978

Ion	Ratio	Lower	Upper
77	100		
182	26.8	7.5	47.5
105	21.6	2.1	42.1
51	29.7	9.6	49.6





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.207 min Scan# 24
Delta R.T. 0.006 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:188 Resp: 81633

Ion	Ratio	Lower	Upper
188	100		
94	8.9	6.6	10.0
80	9.4	6.7	10.1

Instrument :
BNA_P
ClientSampleId :
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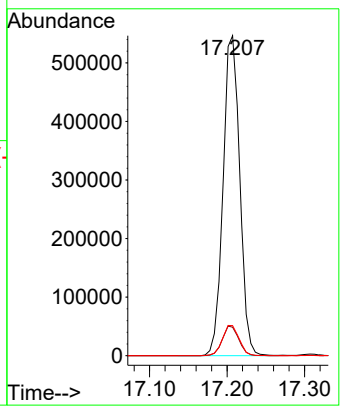
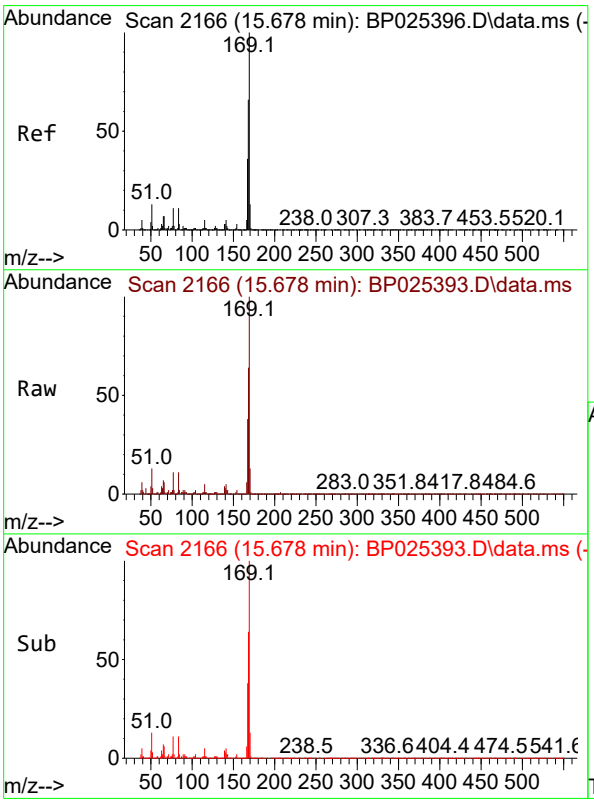
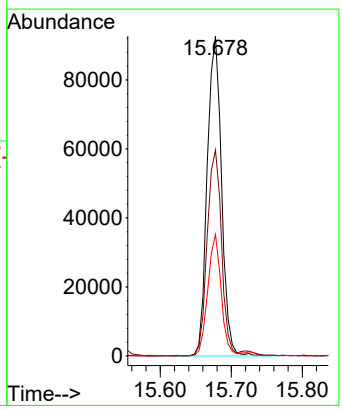


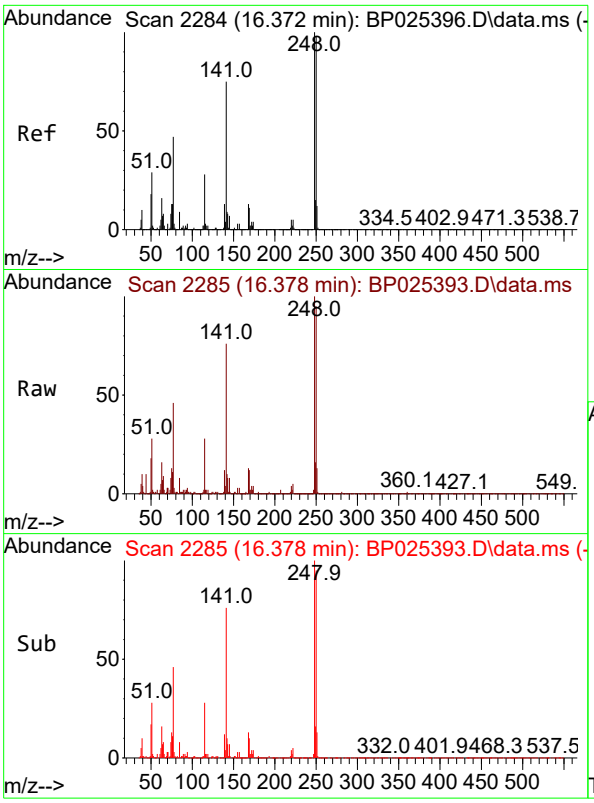


#66
n-Nitrosodiphenylamine
Concen: 5.214 ng
RT: 15.678 min Scan# 2166
Delta R.T. 0.000 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:169 Resp: 129805

Ion	Ratio	Lower	Upper
169	100		
168	64.3	53.2	79.8
167	38.0	28.7	43.1

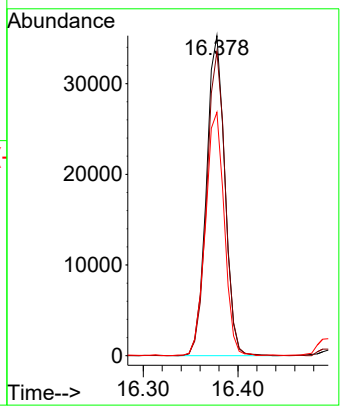




#67
4-Bromophenyl-phenylether
Concen: 5.299 ng
RT: 16.378 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:248 Resp: 4757

Ion	Ratio	Lower	Upper
248	100		
250	95.1	78.2	117.2
141	76.0	59.6	89.4



Instrument :
BNA_P
ClientSampleId :
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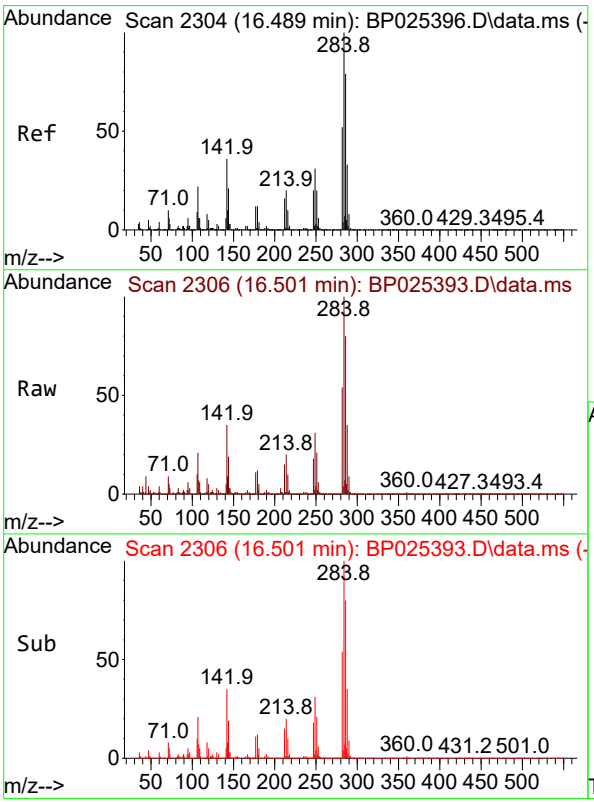
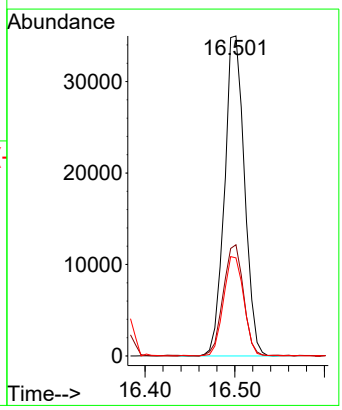
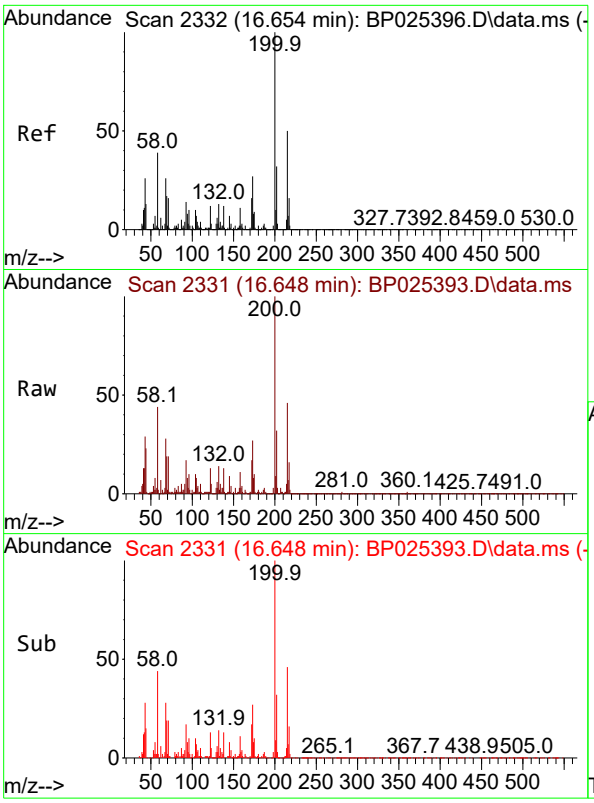


#68
Hexachlorobenzene
Concen: 5.183 ng
RT: 16.501 min Scan# 2306
Delta R.T. 0.012 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:284 Resp: 53940

Ion	Ratio	Lower	Upper
284	100		
142	34.7	29.1	43.7
249	30.6	25.0	37.4

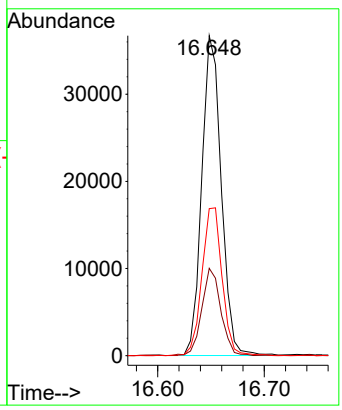




#69
Atrazine
Concen: 5.015 ng
RT: 16.648 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:200 Resp: 4675

Ion	Ratio	Lower	Upper
200	100		
173	27.3	6.7	46.7
215	45.9	29.7	69.7



Instrument :
BNA_P
ClientSampleId :
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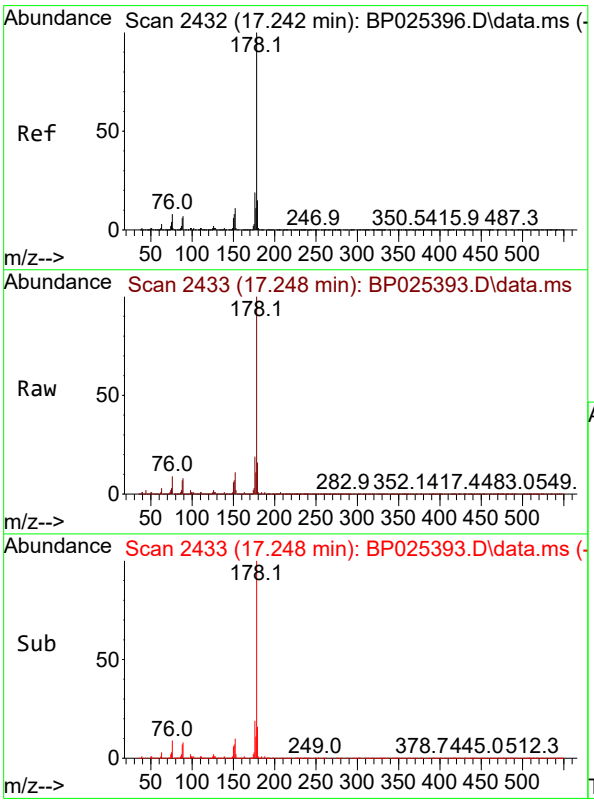
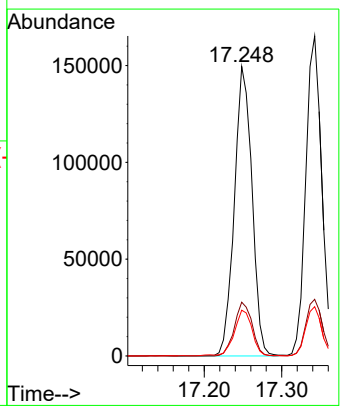
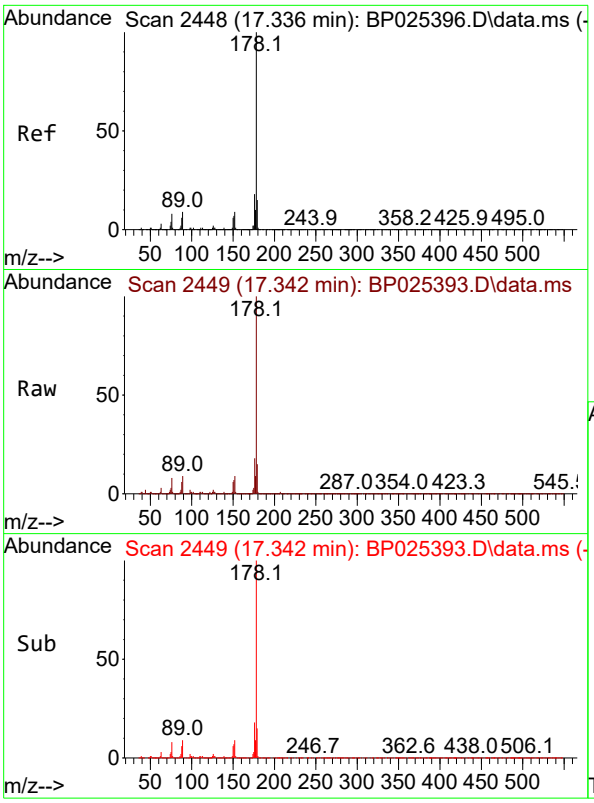


#71
Phenanthrene
Concen: 5.287 ng
RT: 17.248 min Scan# 2433
Delta R.T. 0.006 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:178 Resp: 237107

Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.5	23.3
179	15.8	12.2	18.4

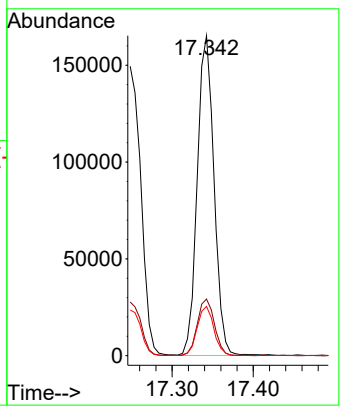




#72
Anthracene
Concen: 5.174 ng
RT: 17.342 min Scan# 24
Delta R.T. 0.006 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:178 Resp: 23693

Ion	Ratio	Lower	Upper
178	100		
176	17.7	14.7	22.1
179	15.4	12.2	18.2



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

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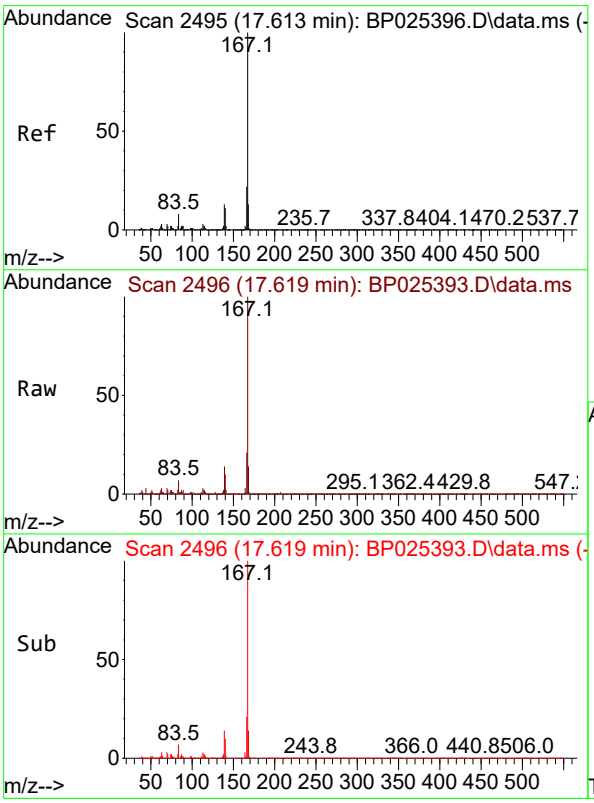
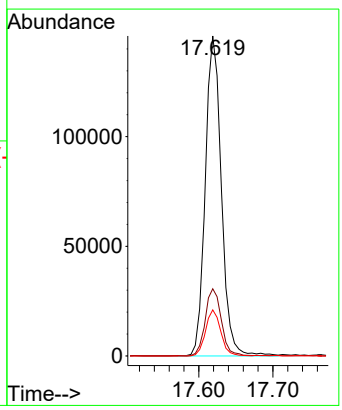
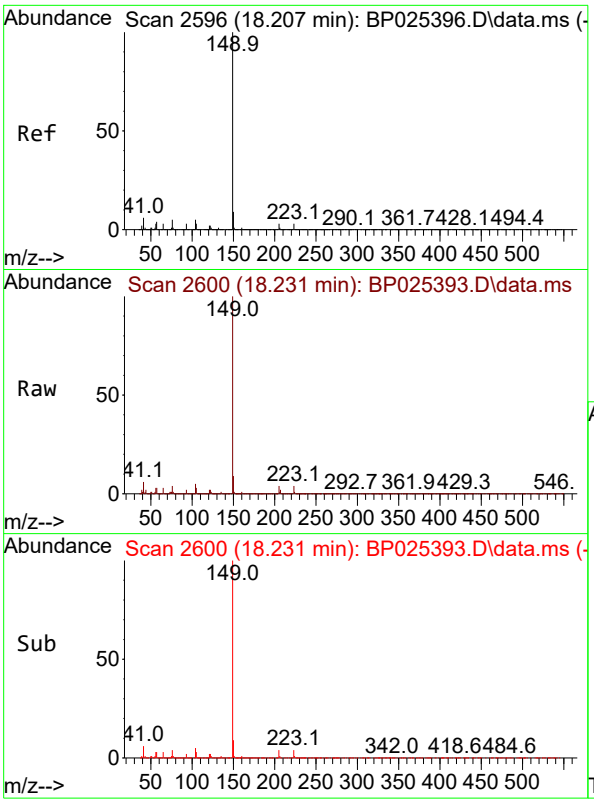


#73
Carbazole
Concen: 5.103 ng
RT: 17.619 min Scan# 2496
Delta R.T. 0.006 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:167 Resp: 220112

Ion	Ratio	Lower	Upper
167	100		
166	21.0	17.5	26.3
139	14.4	10.6	16.0

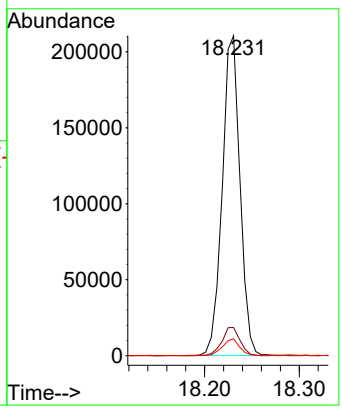




#74
Di-n-butylphthalate
Concen: 5.172 ng
RT: 18.231 min Scan# 2
Delta R.T. 0.024 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:149 Resp: 27446

Ion	Ratio	Lower	Upper
149	100		
150	8.8	7.4	11.0
104	5.3	4.2	6.2



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

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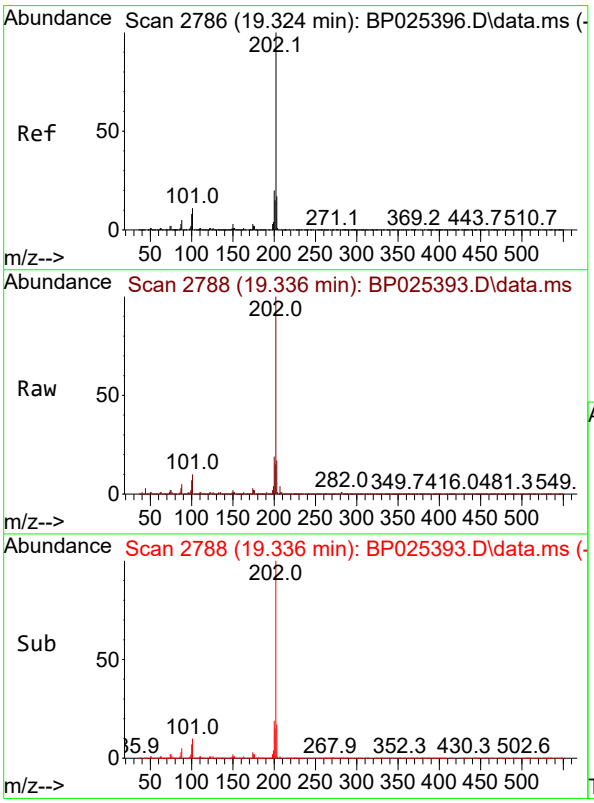
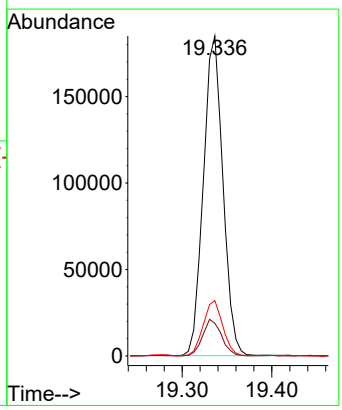
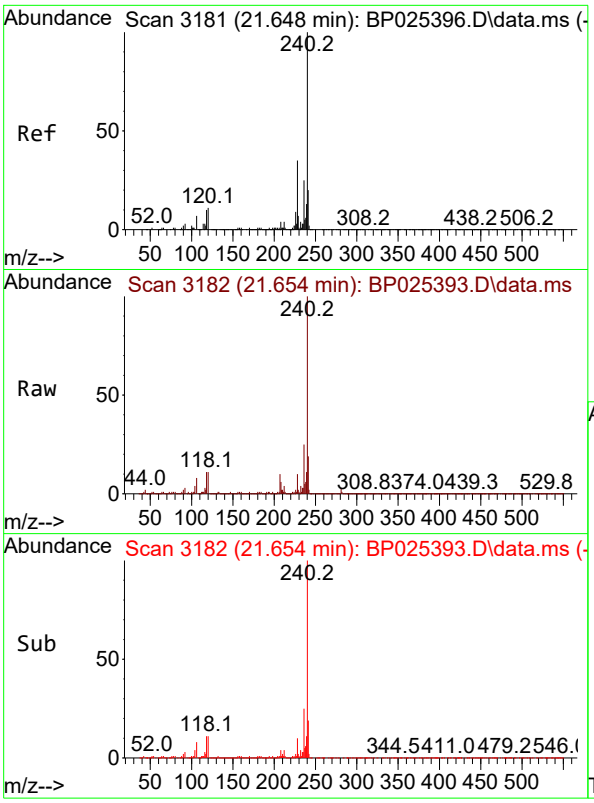


#75
Fluoranthene
Concen: 5.225 ng
RT: 19.336 min Scan# 2788
Delta R.T. 0.012 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:202 Resp: 279497

Ion	Ratio	Lower	Upper
202	100		
101	10.2	0.0	31.1
203	17.3	0.0	37.3

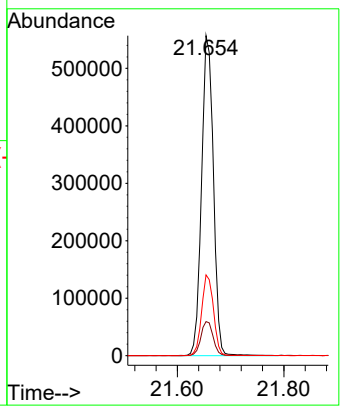




#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.654 min Scan# 3
Delta R.T. 0.006 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:240 Resp: 85816

Ion	Ratio	Lower	Upper
240	100		
120	10.6	8.9	13.3
236	25.2	19.8	29.8



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

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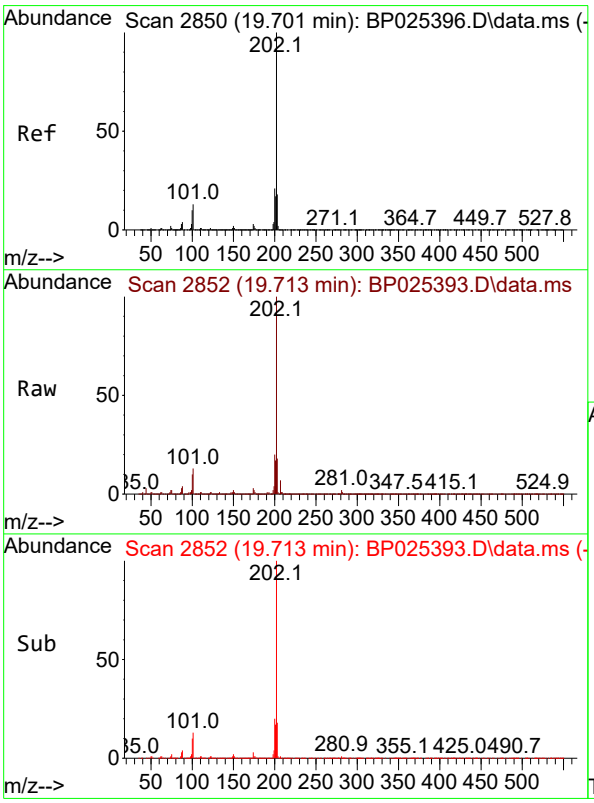
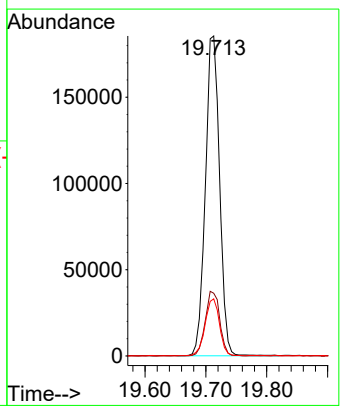
Supervised By :Jagrut Upadhyay 08/15/2025

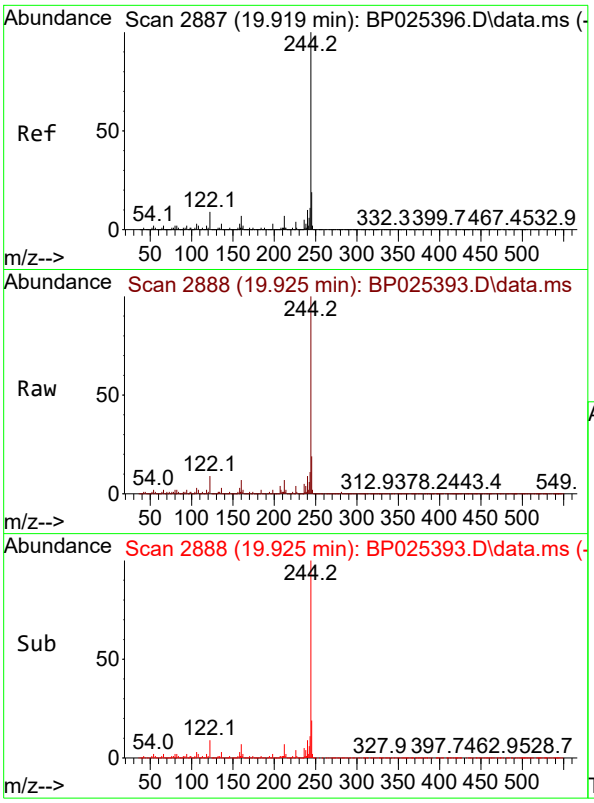


#78
Pyrene
Concen: 5.377 ng
RT: 19.713 min Scan# 2852
Delta R.T. 0.012 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:202 Resp: 299922

Ion	Ratio	Lower	Upper
202	100		
200	19.6	16.9	25.3
203	17.8	14.2	21.2

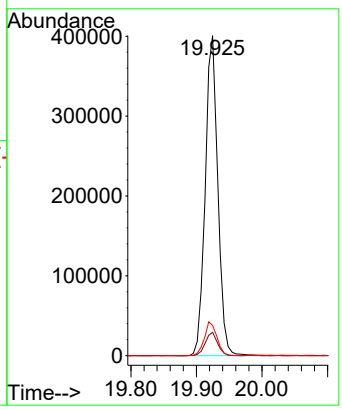




#79
Terphenyl-d14
Concen: 11.428 ng
RT: 19.925 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:244 Resp: 53604

Ion	Ratio	Lower	Upper
244	100		
212	7.3	5.8	8.6
122	9.5	7.4	11.2



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

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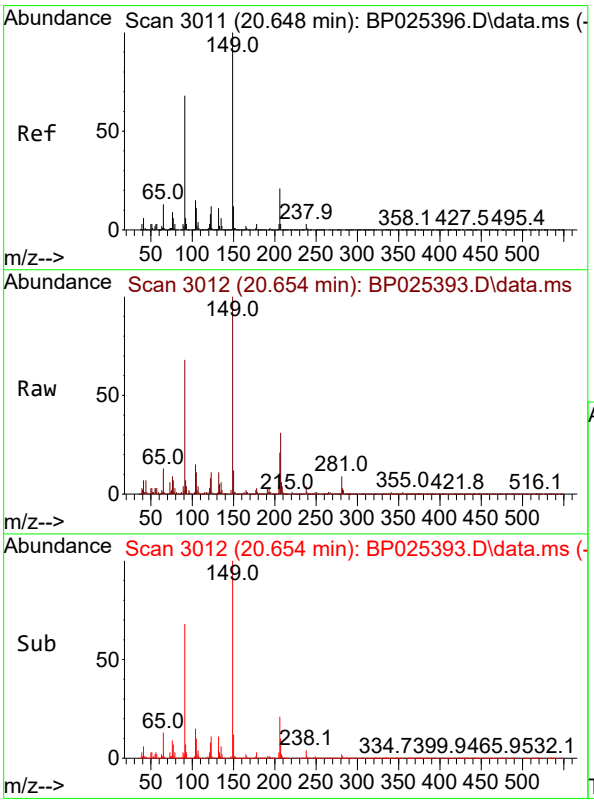
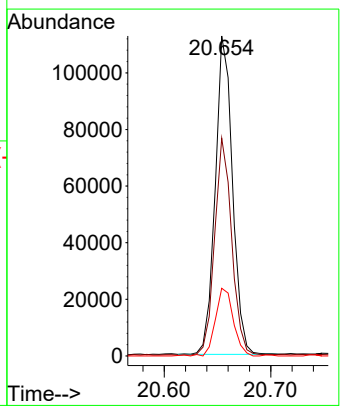
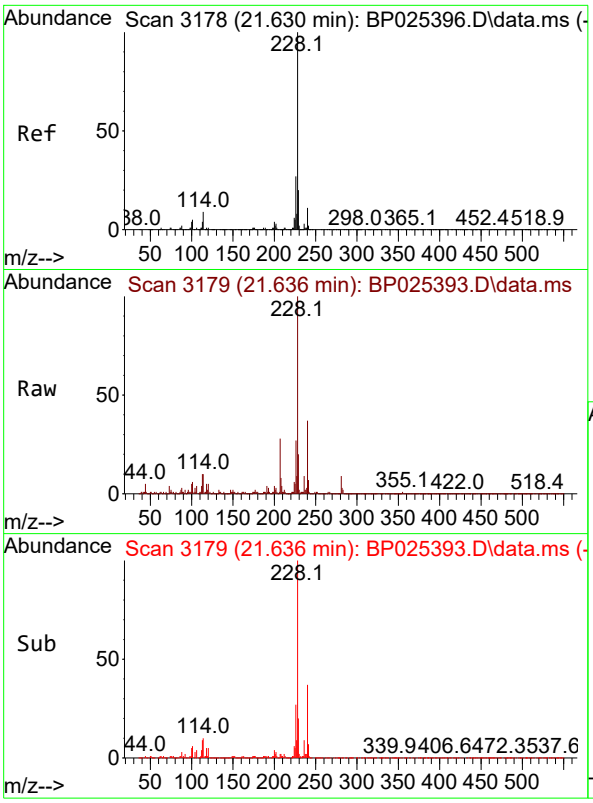


#80
Butylbenzylphthalate
Concen: 4.997 ng
RT: 20.654 min Scan# 3012
Delta R.T. 0.006 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:149 Resp: 126321

Ion	Ratio	Lower	Upper
149	100		
91	68.0	54.2	81.2
206	21.1	16.6	24.8

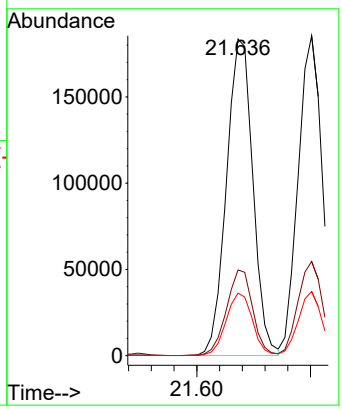




#81
Benzo(a)anthracene
Concen: 5.245 ng
RT: 21.636 min Scan# 3
Delta R.T. 0.006 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:228 Resp: 29684

Ion	Ratio	Lower	Upper
228	100		
226	27.1	21.7	32.5
229	19.8	15.6	23.4



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

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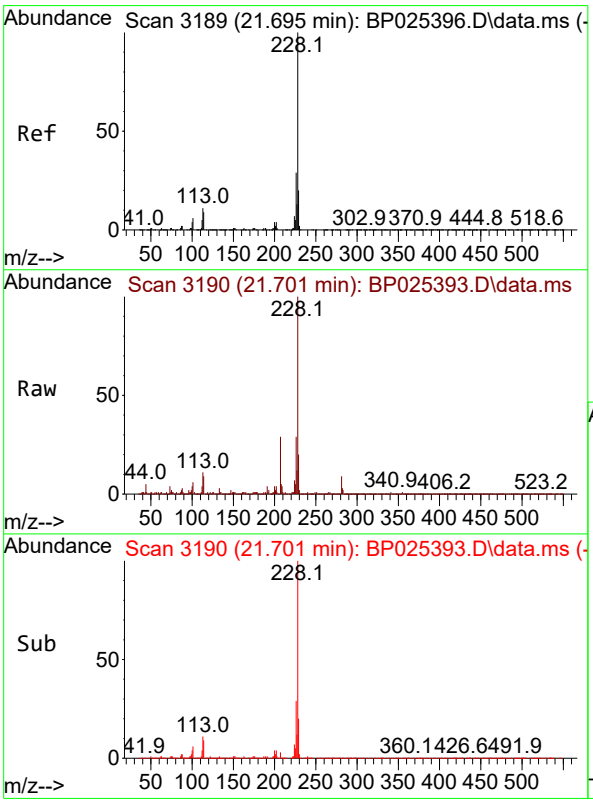
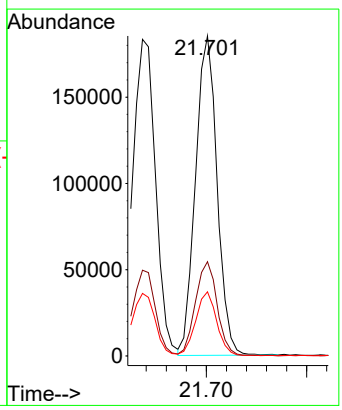
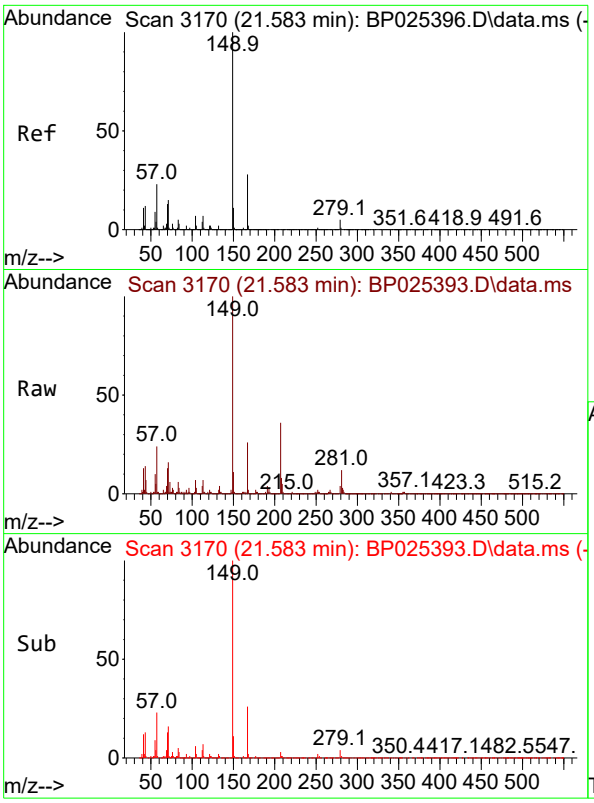


#83
Chrysene
Concen: 5.229 ng
RT: 21.701 min Scan# 3190
Delta R.T. 0.006 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:228 Resp: 277175

Ion	Ratio	Lower	Upper
228	100		
226	29.5	23.2	34.8
229	20.0	15.6	23.4





#84
Bis(2-ethylhexyl)phthalate
Concen: 5.228 ng
RT: 21.583 min Scan# 3
Delta R.T. 0.000 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:149 Resp: 19454

Ion	Ratio	Lower	Upper
149	100		
167	26.3	22.1	33.1
279	3.8	3.8	5.6

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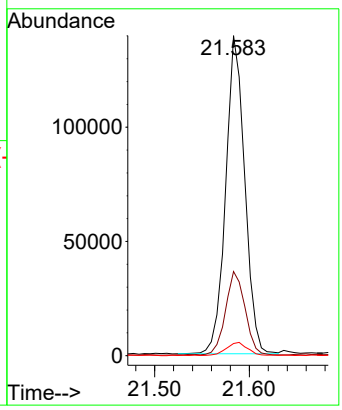
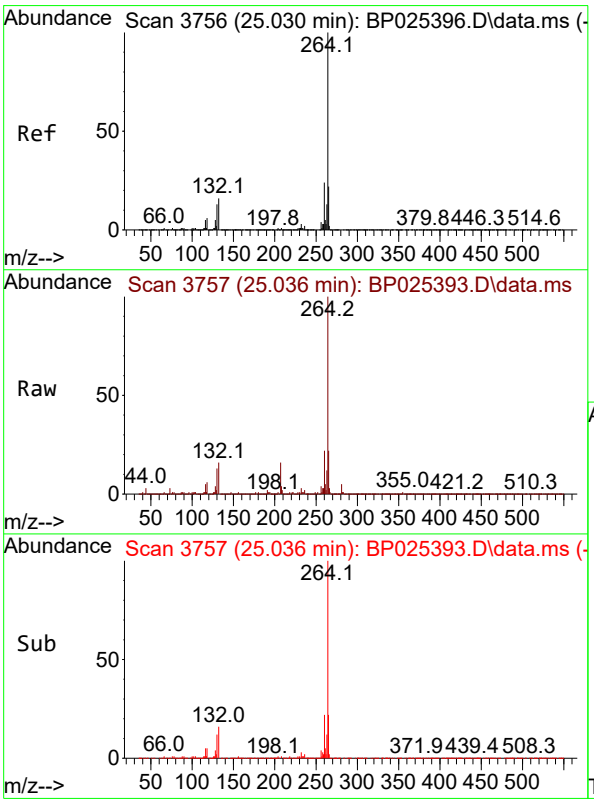
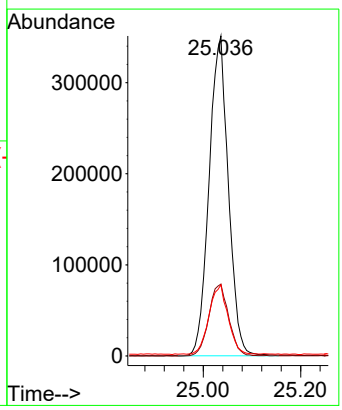


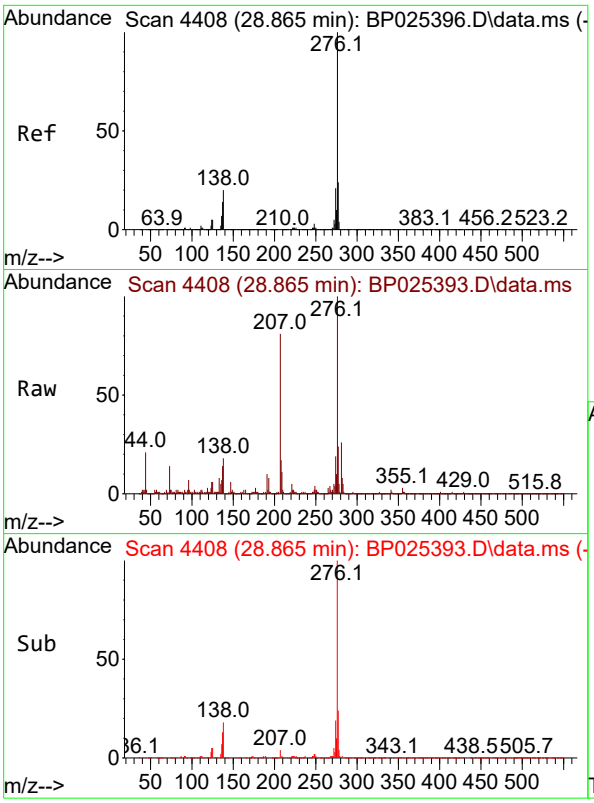


#86
Perylene-d12
Concen: 20.000 ng
RT: 25.036 min Scan# 3757
Delta R.T. 0.006 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:264 Resp: 963881

Ion	Ratio	Lower	Upper
264	100		
260	22.5	19.3	28.9
265	22.3	17.4	26.0

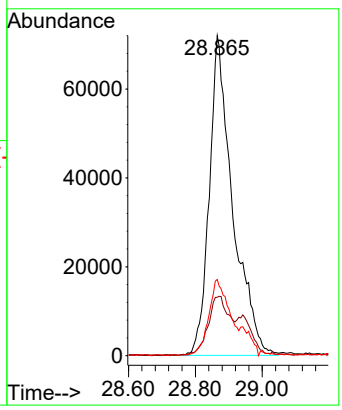




#87
Indeno(1,2,3-cd)pyrene
Concen: 4.956 ng
RT: 28.865 min Scan# 4
Delta R.T. 0.000 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:276 Resp: 35041

Ion	Ratio	Lower	Upper
276	100		
138	17.1	12.9	19.3
277	20.8	17.0	25.6



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

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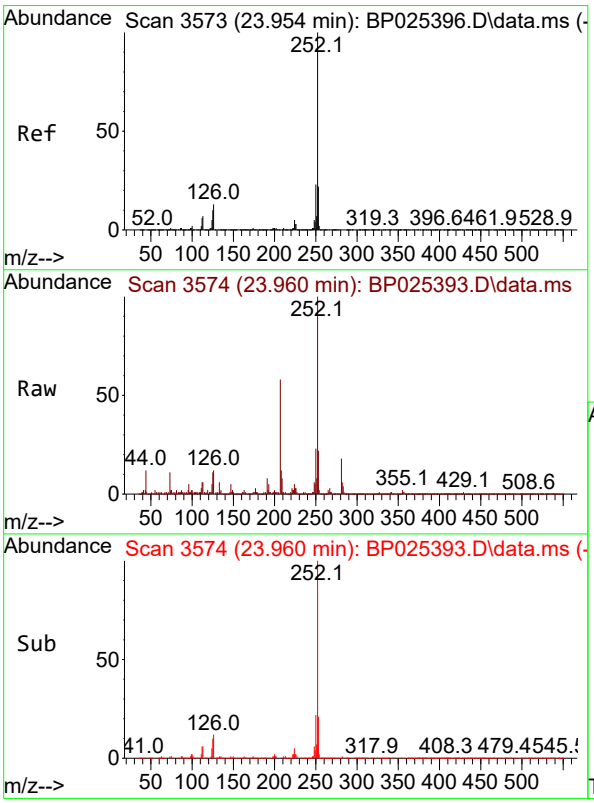
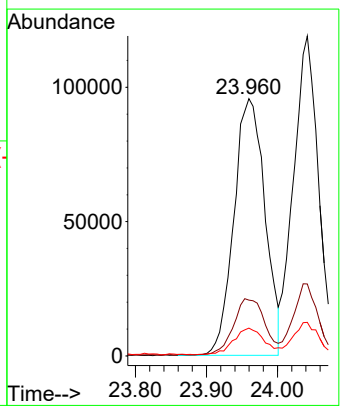
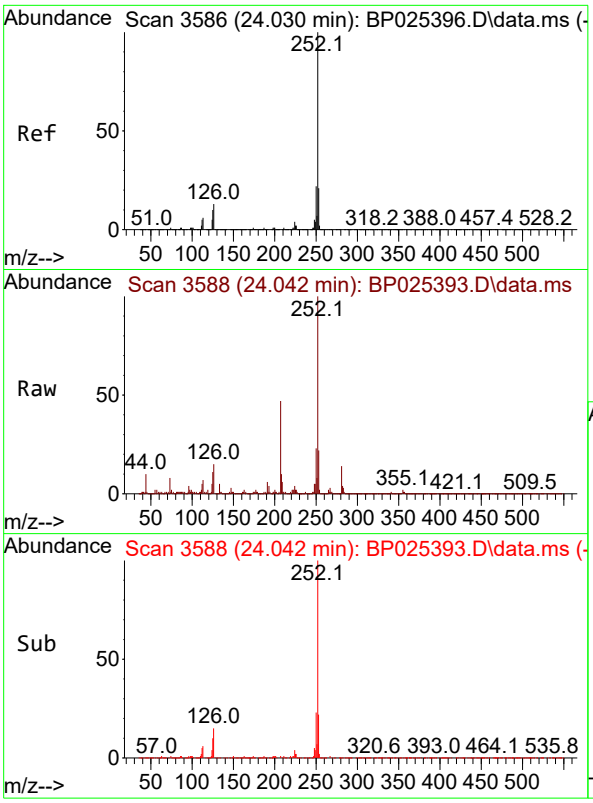


#88
Benzo(b)fluoranthene
Concen: 5.099 ng
RT: 23.960 min Scan# 3574
Delta R.T. 0.006 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:252 Resp: 289797

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.7	26.5
125	10.8	7.9	11.9

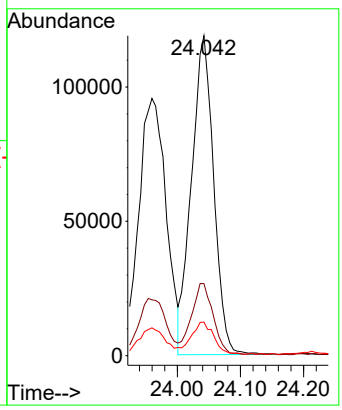




#89
Benzo(k)fluoranthene
Concen: 5.091 ng
RT: 24.042 min Scan# 3
Delta R.T. 0.012 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:252 Resp: 28955

Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.1	25.7
125	10.5	7.8	11.6



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

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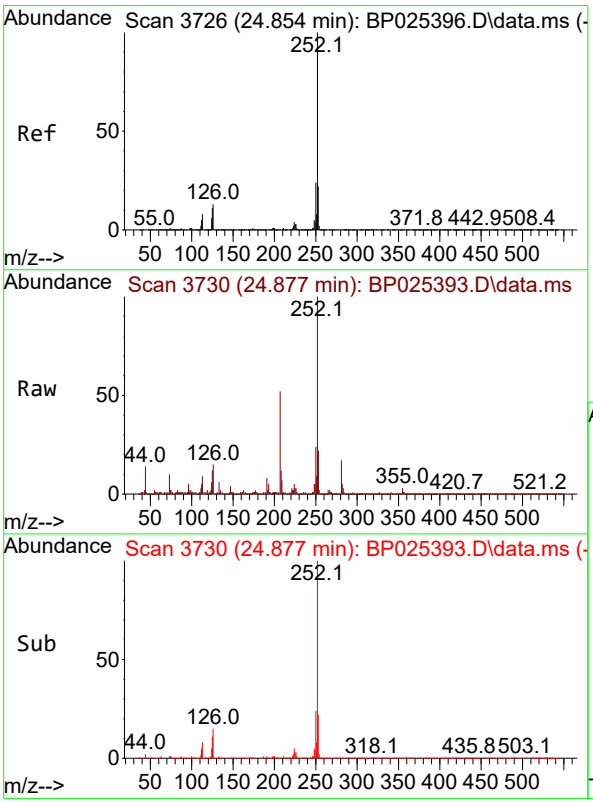
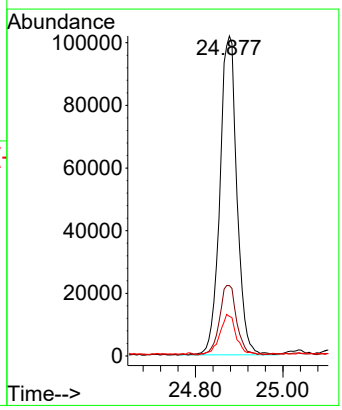
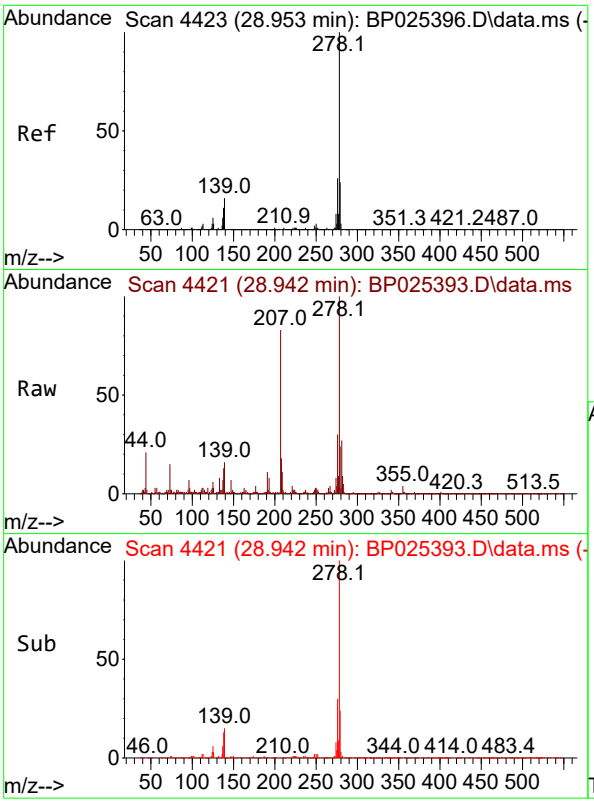


#90
Benzo(a)pyrene
Concen: 4.960 ng
RT: 24.877 min Scan# 3730
Delta R.T. 0.024 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:252 Resp: 274440

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.5	26.3
125	12.4	8.7	13.1

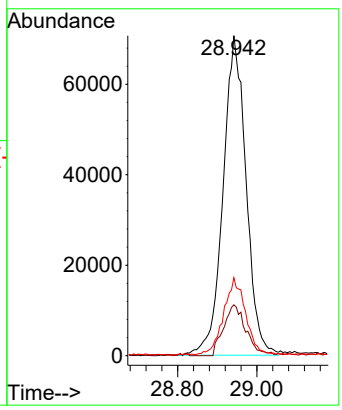




#91
Dibenzo(a,h)anthracene
Concen: 4.924 ng
RT: 28.942 min Scan# 44
Delta R.T. -0.012 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:278 Resp: 28444

Ion	Ratio	Lower	Upper
278	100		
139	15.9	13.0	19.4
279	24.3	19.4	29.2



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

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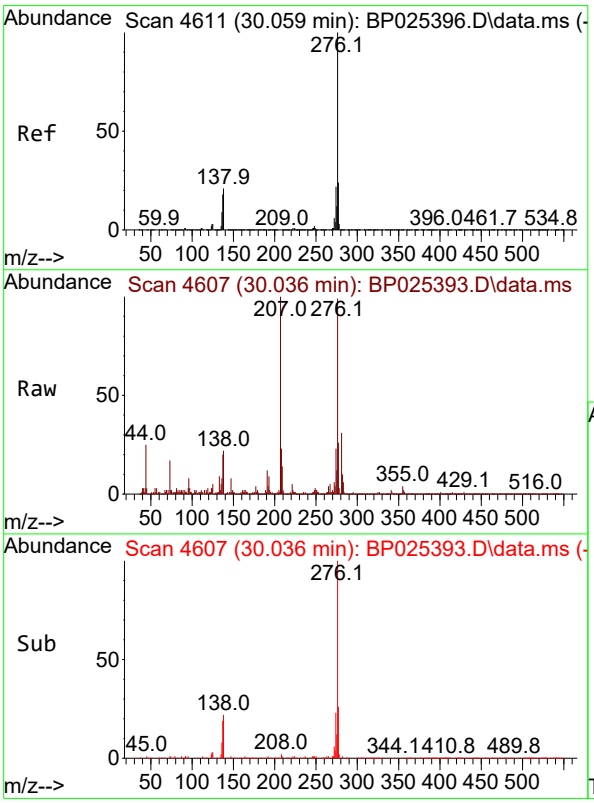
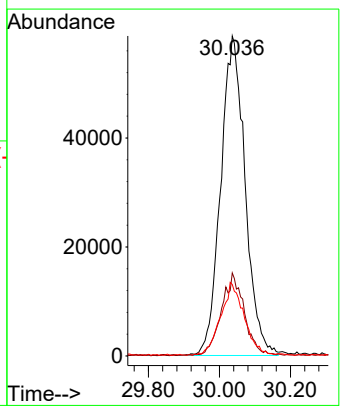


#92
Benzo(g,h,i)perylene
Concen: 4.931 ng
RT: 30.036 min Scan# 4607
Delta R.T. -0.023 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:276 Resp: 279987

Ion	Ratio	Lower	Upper
276	100		
277	26.0	19.4	29.0
138	22.4	16.7	25.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081425\
Data File : BP025394.D
Acq On : 14 Aug 2025 13:56
Operator : CG/JU
Sample : SSTDICC010
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 08/15/2025
Supervised By :Jagrut Upadhyay 08/15/2025

Quant Time: Aug 14 17:53:41 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 17:44:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.790	152	137852	20.000	ng		0.00
21) Naphthalene-d8	10.566	136	563995	20.000	ng		0.00
39) Acenaphthene-d10	14.407	164	383199	20.000	ng		0.00
64) Phenanthrene-d10	17.207	188	780940	20.000	ng		0.00
76) Chrysene-d12	21.648	240	860386	20.000	ng		0.00
86) Perylene-d12	25.036	264	980670	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.408	112	162289	19.551	ng		0.00
7) Phenol-d6	6.966	99	202204	19.000	ng		0.00
23) Nitrobenzene-d5	8.931	82	212236	19.036	ng		0.00
42) 2,4,6-Tribromophenol	15.919	330	99083	19.210	ng		0.00
45) 2-Fluorobiphenyl	13.019	172	568359	20.271	ng		0.00
79) Terphenyl-d14	19.924	244	946422	20.125	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.331	88	31948	9.826	ng		98
3) Pyridine	3.731	79	86156	9.681	ng		100
4) n-Nitrosodimethylamine	3.637	42	35519	9.681	ng	#	99
6) Aniline	7.125	93	135217	9.430	ng		99
8) 2-Chlorophenol	7.366	128	88413	9.439	ng		98
9) Benzaldehyde	6.943	77	68064m	9.129	ng		
10) Phenol	6.996	94	105394	9.438	ng		99
11) bis(2-Chloroethyl)ether	7.219	93	81541	9.368	ng		98
12) 1,3-Dichlorobenzene	7.684	146	98782	9.564	ng		98
13) 1,4-Dichlorobenzene	7.825	146	102729	9.731	ng		98
14) 1,2-Dichlorobenzene	8.143	146	98589	9.647	ng		98
15) Benzyl Alcohol	8.025	79	78411	9.273	ng		99
16) 2,2'-oxybis(1-Chloropr...	8.313	45	109744	9.412	ng		99
17) 2-Methylphenol	8.231	107	70991	9.153	ng		98
18) Hexachloroethane	8.866	117	37473	9.654	ng		98
19) n-Nitroso-di-n-propyla...	8.584	70	66105	9.366	ng		99
20) 3+4-Methylphenols	8.549	107	99382	9.244	ng		97
22) Acetophenone	8.602	105	137361	9.712	ng	#	98
24) Nitrobenzene	8.972	77	96502	9.685	ng		97
25) Isophorone	9.502	82	189510	9.604	ng		99
26) 2-Nitrophenol	9.678	139	45860	8.968	ng		96
27) 2,4-Dimethylphenol	9.737	122	85465	9.718	ng		98
28) bis(2-Chloroethoxy)met...	9.972	93	114635	9.611	ng		99
29) 2,4-Dichlorophenol	10.213	162	82676	9.464	ng		97
30) 1,2,4-Trichlorobenzene	10.431	180	92664	9.676	ng		94
31) Naphthalene	10.613	128	287754	9.816	ng		99
32) Benzoic acid	9.825	122	53034m	8.188	ng		
33) 4-Chloroaniline	10.713	127	122647	9.472	ng		98
34) Hexachlorobutadiene	10.901	225	57821	9.695	ng		97
35) Caprolactam	11.472	113	32038	10.001	ng		93
36) 4-Chloro-3-methylphenol	11.837	107	94538	9.431	ng		97
37) 2-Methylnaphthalene	12.219	142	184172	9.654	ng		100
38) 1-Methylnaphthalene	12.437	142	199160	9.817	ng		97
40) 1,2,4,5-Tetrachloroben...	12.590	216	107104	9.678	ng		99
41) Hexachlorocyclopentadiene	12.572	237	52588	7.867	ng		97
43) 2,4,6-Trichlorophenol	12.831	196	69780	9.339	ng		97

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081425\
Data File : BP025394.D
Acq On : 14 Aug 2025 13:56
Operator : CG/JU
Sample : SSTDICC010
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 08/15/2025
Supervised By :Jagrut Upadhyay 08/15/2025

Quant Time: Aug 14 17:53:41 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 17:44:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.901	196	73744	9.006	ng	98
46) 1,1'-Biphenyl	13.237	154	271710	9.763	ng	98
47) 2-Chloronaphthalene	13.272	162	209419	9.666	ng	99
48) 2-Nitroaniline	13.466	65	58630	9.287	ng	97
49) Acenaphthylene	14.119	152	346021	9.652	ng	99
50) Dimethylphthalate	13.860	163	277701	9.896	ng	99
51) 2,6-Dinitrotoluene	13.972	165	54957	9.292	ng	96
52) Acenaphthene	14.472	154	207239m	9.848	ng	
53) 3-Nitroaniline	14.301	138	62991	9.466	ng	93
54) 2,4-Dinitrophenol	14.513	184	21748	6.886	ng	99
55) Dibenzofuran	14.807	168	327734	9.851	ng	100
56) 4-Nitrophenol	14.625	139	48103	8.797	ng	97
57) 2,4-Dinitrotoluene	14.766	165	77950	9.237	ng	100
58) Fluorene	15.472	166	266610	10.156	ng	96
59) 2,3,4,6-Tetrachlorophenol	15.042	232	68931	9.533	ng	99
60) Diethylphthalate	15.242	149	282526	9.909	ng	98
61) 4-Chlorophenyl-phenyle...	15.466	204	131137	10.044	ng	99
62) 4-Nitroaniline	15.478	138	64375	9.437	ng	99
63) Azobenzene	15.766	77	234879	9.620	ng	98
65) 4,6-Dinitro-2-methylph...	15.542	198	37380	7.679	ng	97
66) n-Nitrosodiphenylamine	15.684	169	235344	9.883	ng	100
67) 4-Bromophenyl-phenylether	16.384	248	80373	9.358	ng	98
68) Hexachlorobenzene	16.501	284	98614	9.905	ng	96
69) Atrazine	16.660	200	88240	9.894	ng	98
70) Pentachlorophenol	16.854	266	52539	8.360	ng	97
71) Phenanthrene	17.248	178	429752	10.018	ng	99
72) Anthracene	17.348	178	438953	10.020	ng	100
73) Carbazole	17.619	167	410726	9.954	ng	99
74) Di-n-butylphthalate	18.219	149	490232	9.656	ng	99
75) Fluoranthene	19.330	202	516523	10.094	ng	99
77) Benzidine	19.525	184	276193	9.406	ng	99
78) Pyrene	19.707	202	542670	9.704	ng	100
80) Butylbenzylphthalate	20.660	149	239416	9.446	ng	98
81) Benzo(a)anthracene	21.624	228	560279	9.874	ng	99
82) 3,3'-Dichlorobenzidine	21.554	252	207153	9.686	ng	99
83) Chrysene	21.701	228	522411	9.831	ng	99
84) Bis(2-ethylhexyl)phtha...	21.583	149	355530	9.529	ng	99
85) Di-n-octyl phthalate	22.877	149	594195	9.259	ng	99
87) Indeno(1,2,3-cd)pyrene	28.853	276	678980m	9.438	ng	
88) Benzo(b)fluoranthene	23.954	252	552191	9.549	ng	99
89) Benzo(k)fluoranthene	24.018	252	567080	9.800	ng	98
90) Benzo(a)pyrene	24.854	252	535820	9.519	ng	99
91) Dibenzo(a,h)anthracene	28.959	278	551694	9.387	ng	99
92) Benzo(g,h,i)perylene	30.047	276	548117	9.489	ng	99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081425\
Data File : BP025394.D
Acq On : 14 Aug 2025 13:56
Operator : CG/JU
Sample : SSTDICC010
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 14 17:53:41 2025
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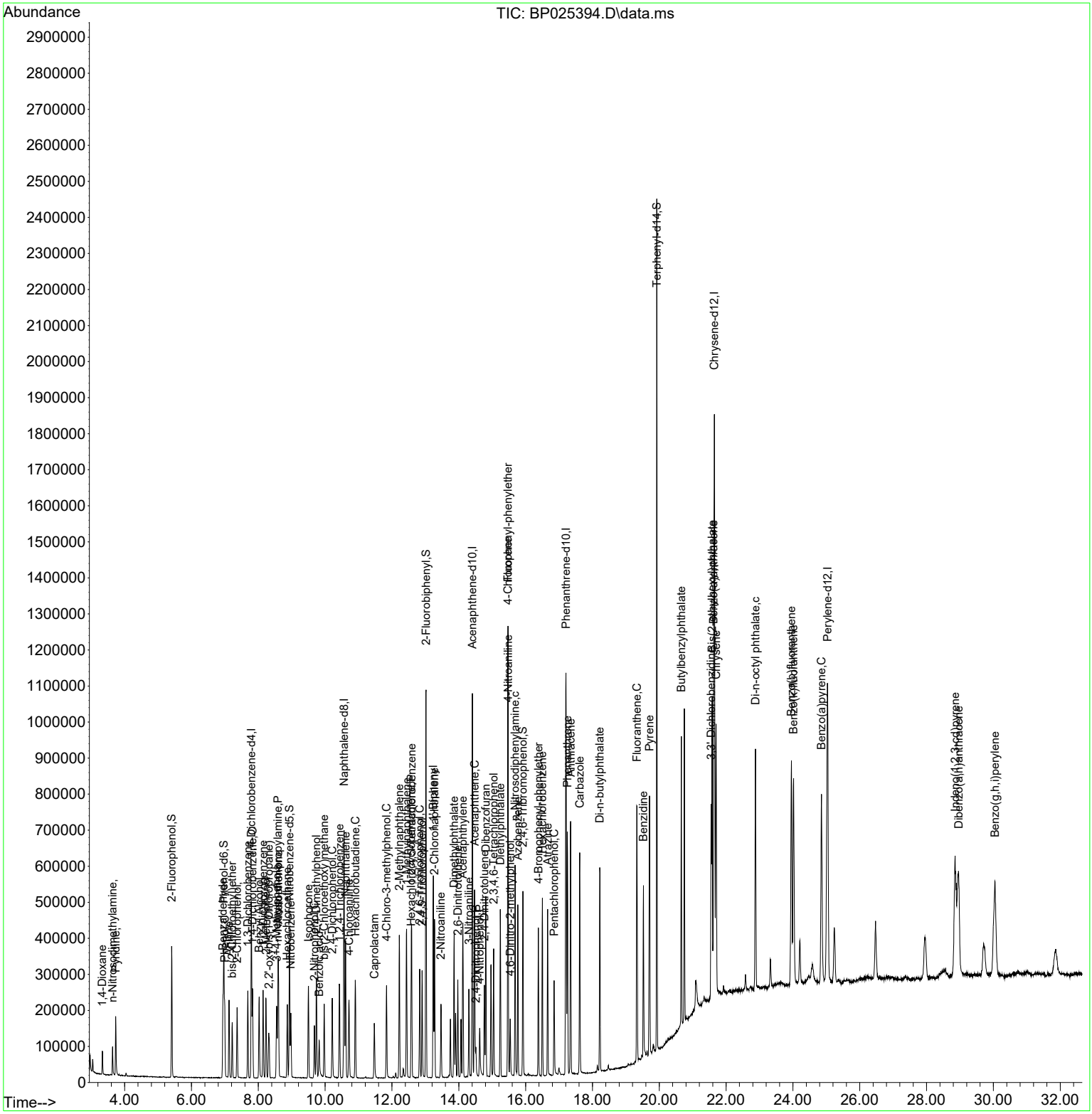
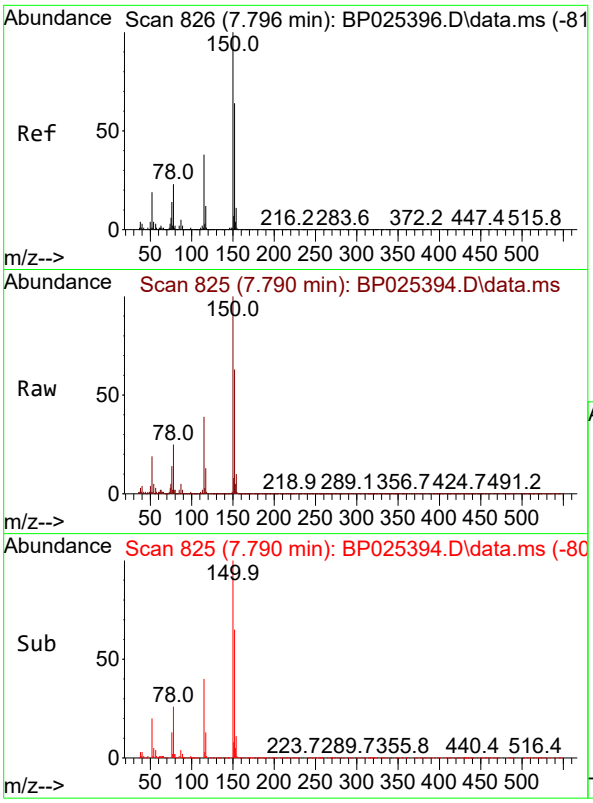
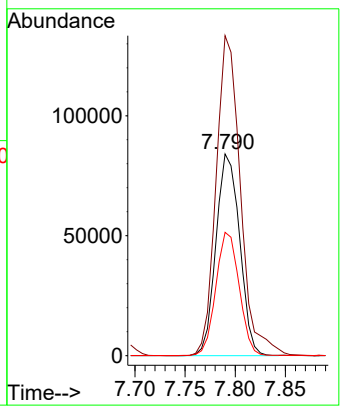




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.790 min Scan# 8
Delta R.T. -0.006 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:152 Resp: 13785

Ion	Ratio	Lower	Upper
152	100		
150	158.6	125.9	188.9
115	61.1	48.5	72.7



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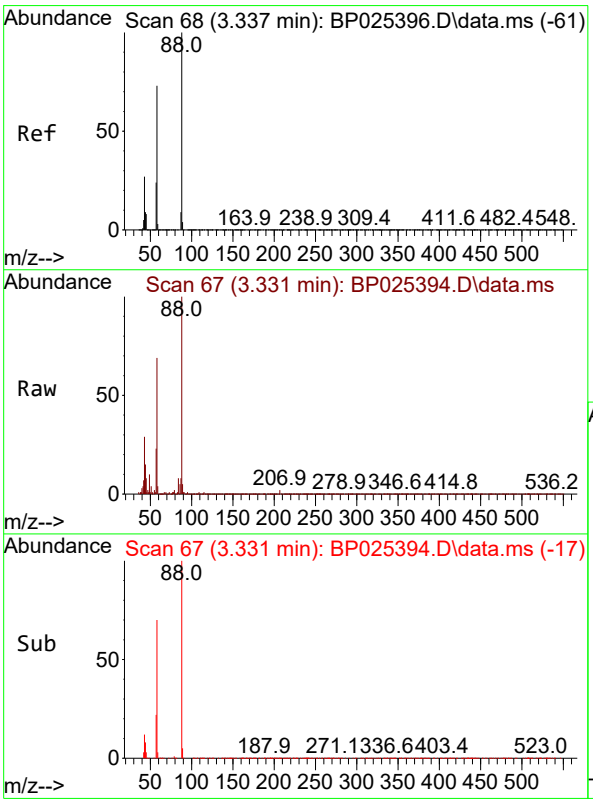
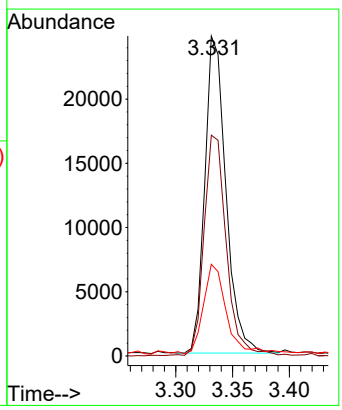
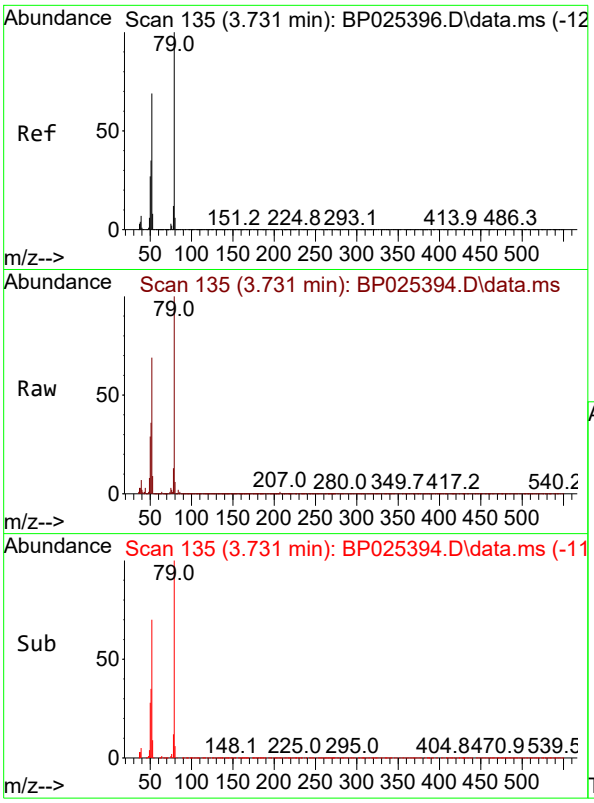


#2
1,4-Dioxane
Concen: 9.826 ng
RT: 3.331 min Scan# 67
Delta R.T. -0.006 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion: 88 Resp: 31948

Ion	Ratio	Lower	Upper
88	100		
58	74.0	59.2	88.8
43	30.8	21.7	32.5

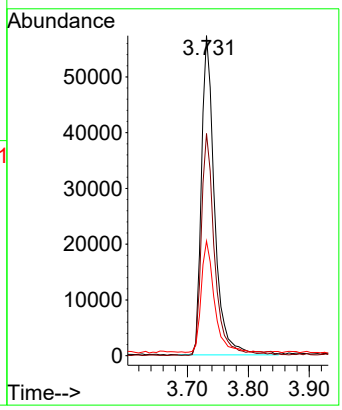




#3
Pyridine
Concen: 9.681 ng
RT: 3.731 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion: 79 Resp: 8615

Ion	Ratio	Lower	Upper
79	100		
52	69.4	55.5	83.3
51	35.8	28.3	42.5



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ClientSampleId :
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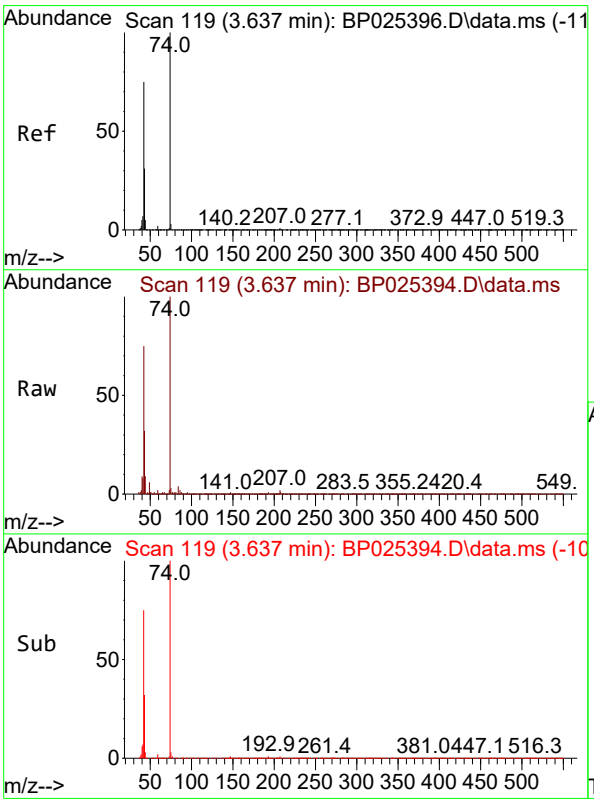
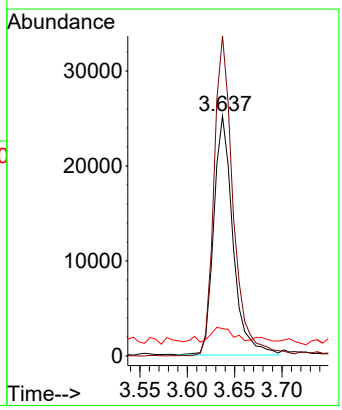
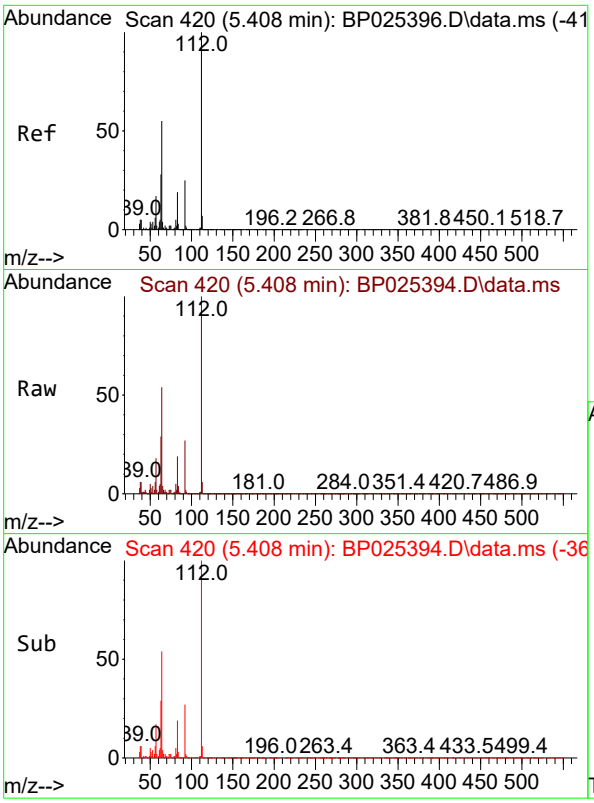


#4
n-Nitrosodimethylamine
Concen: 9.681 ng
RT: 3.637 min Scan# 119
Delta R.T. 0.000 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion: 42 Resp: 35519

Ion	Ratio	Lower	Upper
42	100		
74	133.3	107.0	160.4
44	11.4	6.2	9.4#

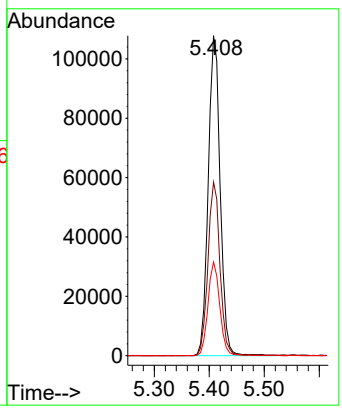




#5
2-Fluorophenol
Concen: 19.551 ng
RT: 5.408 min Scan# 4
Delta R.T. 0.000 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:112 Resp: 16228

Ion	Ratio	Lower	Upper
112	100		
64	54.3	43.8	65.8
63	29.3	22.7	34.1



Instrument :
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ClientSampleId :
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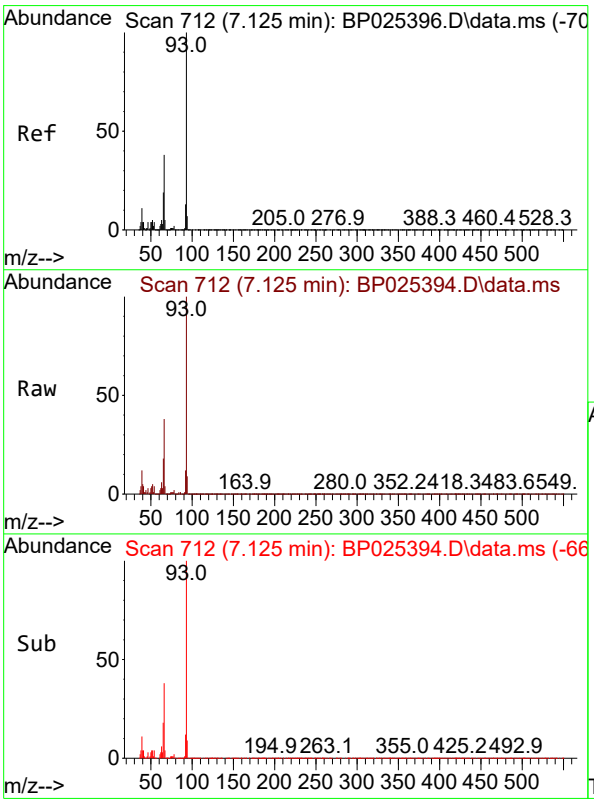
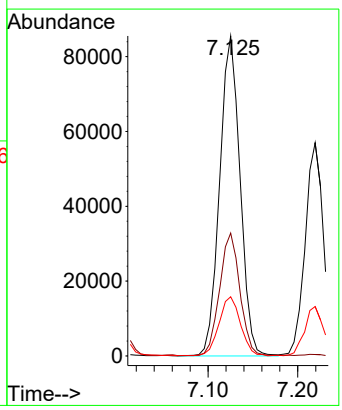
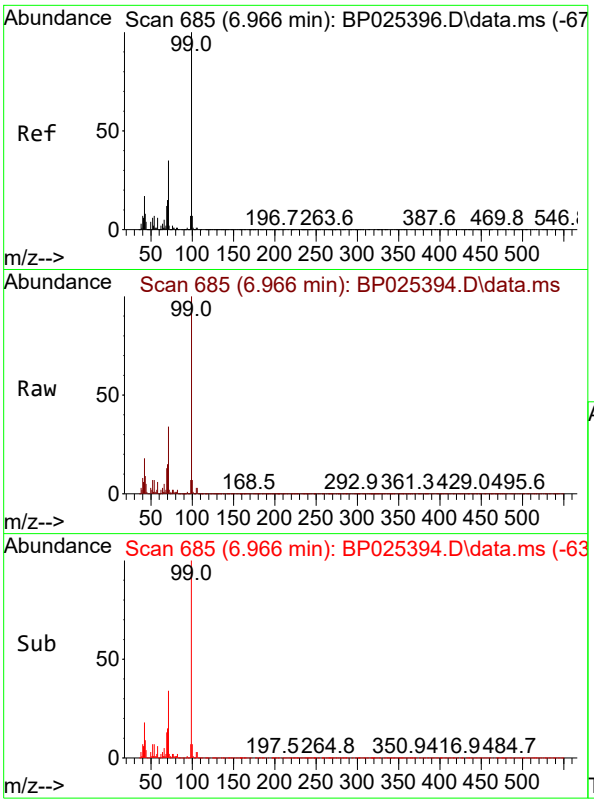


#6
Aniline
Concen: 9.430 ng
RT: 7.125 min Scan# 712
Delta R.T. 0.000 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion: 93 Resp: 135217

Ion	Ratio	Lower	Upper
93	100		
66	38.4	30.4	45.6
65	18.5	15.3	22.9

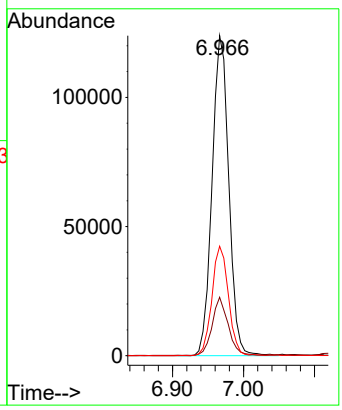




#7
Phenol-d6
Concen: 19.000 ng
RT: 6.966 min Scan# 6
Delta R.T. 0.000 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion: 99 Resp: 20220

Ion	Ratio	Lower	Upper
99	100		
42	18.3	13.7	20.5
71	34.2	28.2	42.4



Instrument :
BNA_P
ClientSampleId :
SSTDICC010

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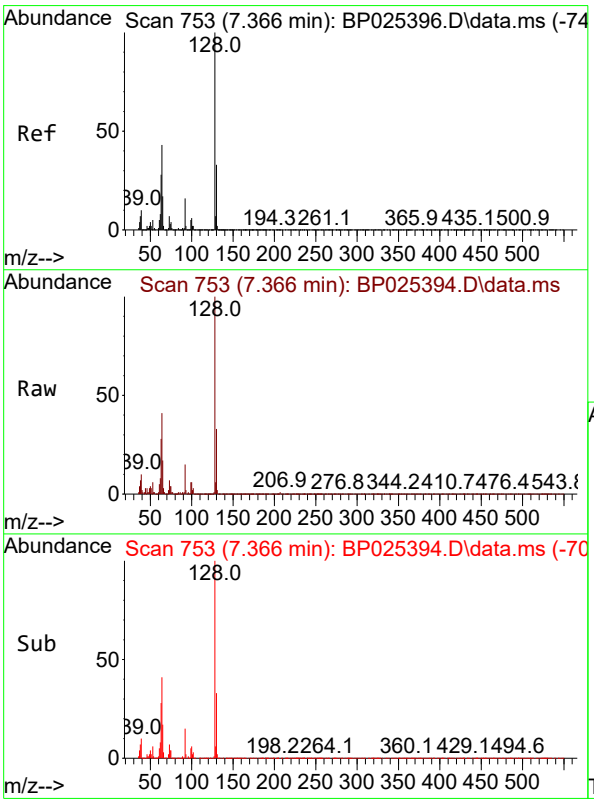
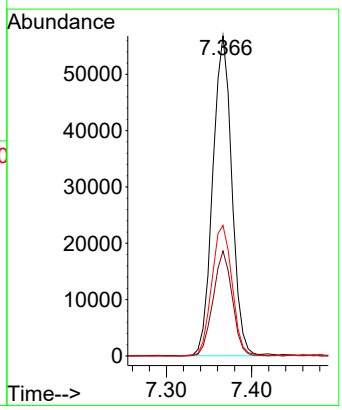
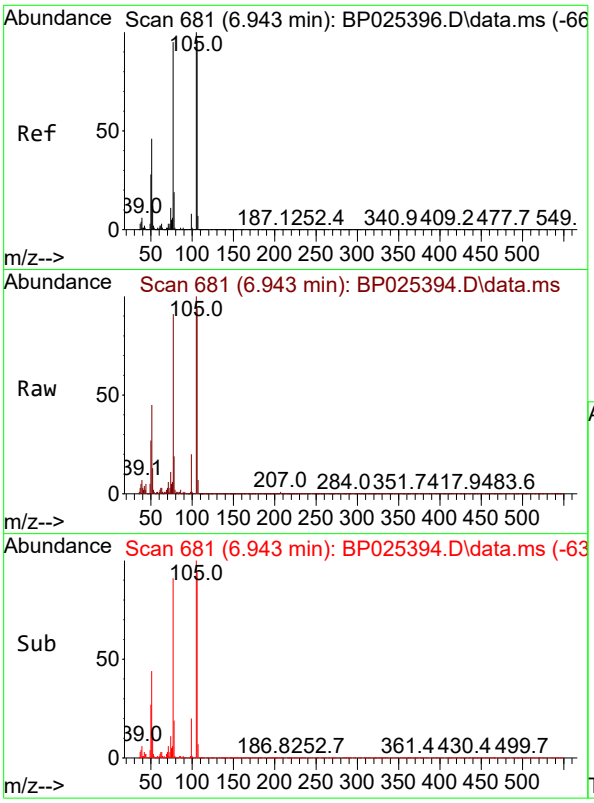


#8
2-Chlorophenol
Concen: 9.439 ng
RT: 7.366 min Scan# 753
Delta R.T. 0.000 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:128 Resp: 88413

Ion	Ratio	Lower	Upper
128	100		
130	32.8	12.6	52.6
64	40.8	23.4	63.4

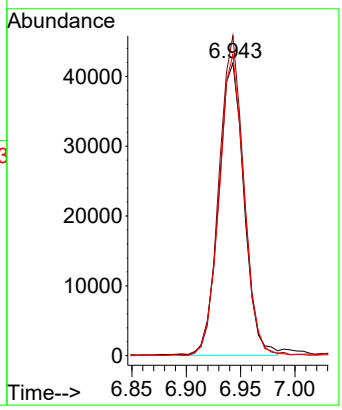




#9
Benzaldehyde
Concen: 9.129 ng m
RT: 6.943 min Scan# 6
Delta R.T. 0.000 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion: 77 Resp: 6806

Ion	Ratio	Lower	Upper
77	100		
105	109.4	84.8	124.8
106	103.0	80.5	120.5



Instrument :
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ClientSampleId :
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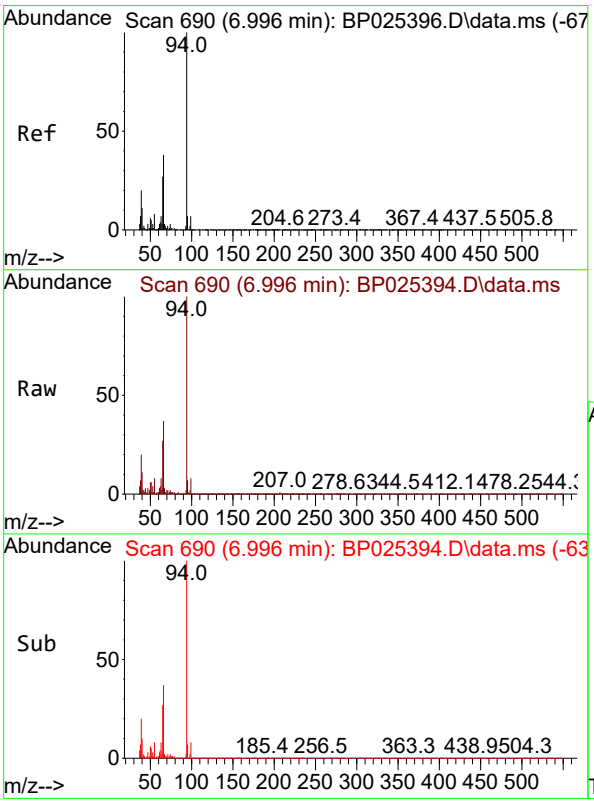
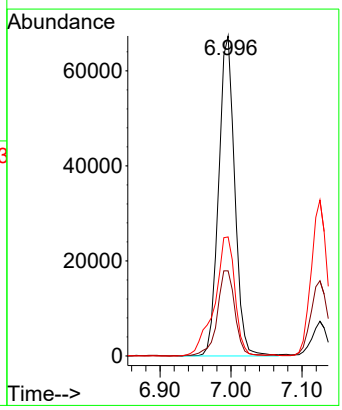
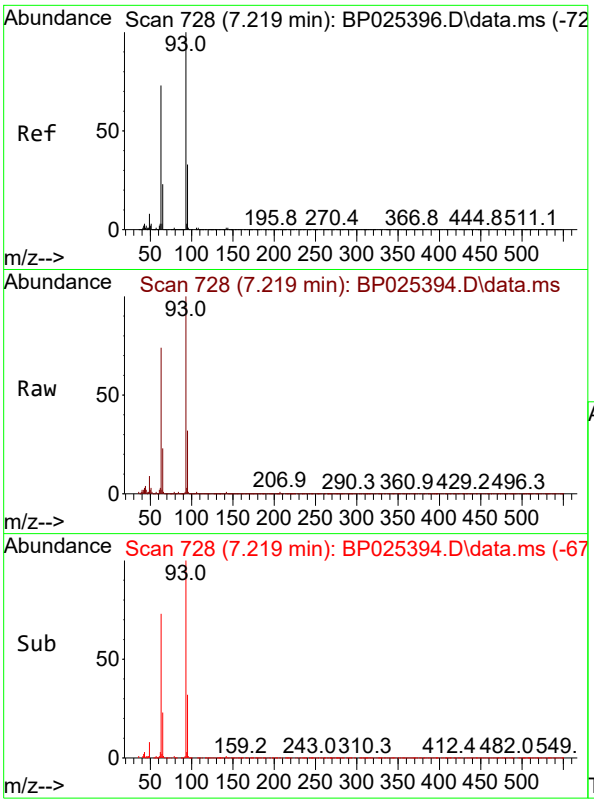


#10
Phenol
Concen: 9.438 ng
RT: 6.996 min Scan# 690
Delta R.T. 0.000 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion: 94 Resp: 105394

Ion	Ratio	Lower	Upper
94	100		
65	26.6	6.8	46.8
66	37.2	18.2	58.2

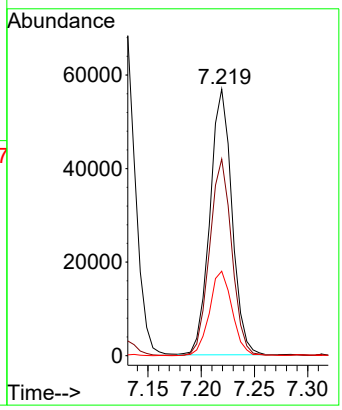




#11
bis(2-Chloroethyl)ether
Concen: 9.368 ng
RT: 7.219 min Scan# 7
Delta R.T. 0.000 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion: 93 Resp: 8154

Ion	Ratio	Lower	Upper
93	100		
63	73.7	52.6	92.6
95	31.7	12.7	52.7



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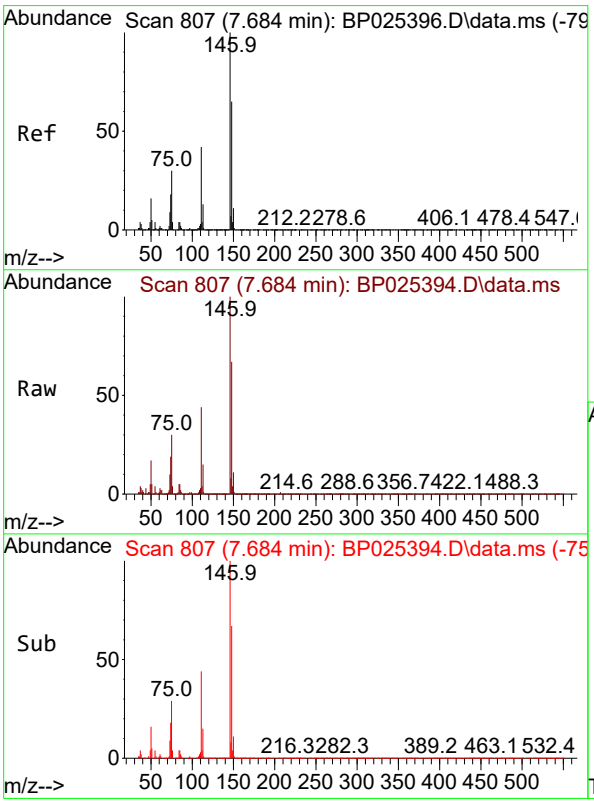
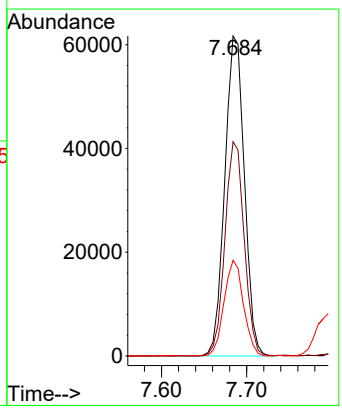
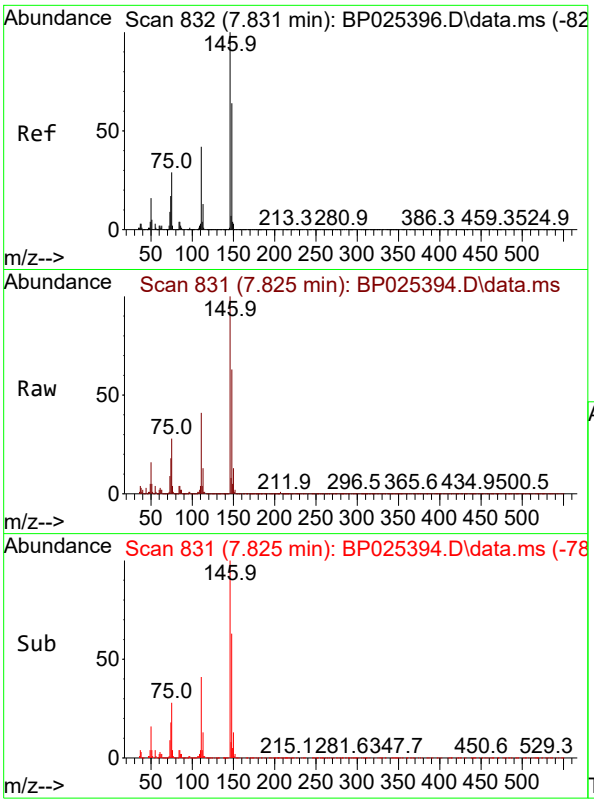


#12
1,3-Dichlorobenzene
Concen: 9.564 ng
RT: 7.684 min Scan# 807
Delta R.T. 0.000 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:146 Resp: 98782

Ion	Ratio	Lower	Upper
146	100		
148	67.0	51.9	77.9
75	29.9	23.7	35.5

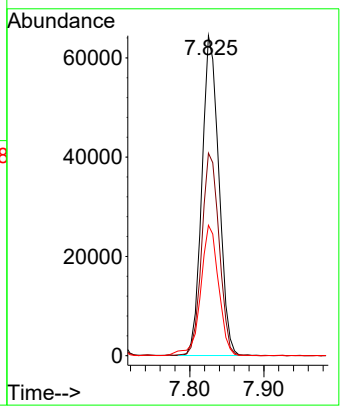




#13
1,4-Dichlorobenzene
Concen: 9.731 ng
RT: 7.825 min Scan# 8
Delta R.T. -0.006 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:146 Resp: 10272

Ion	Ratio	Lower	Upper
146	100		
148	63.3	51.6	77.4
111	40.8	33.4	50.0



Instrument :
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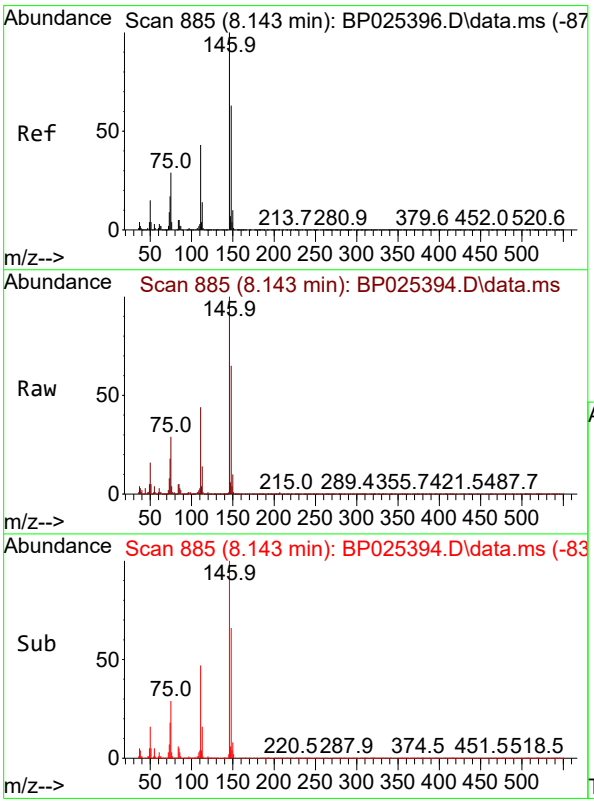
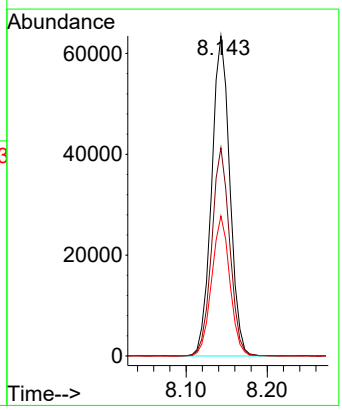
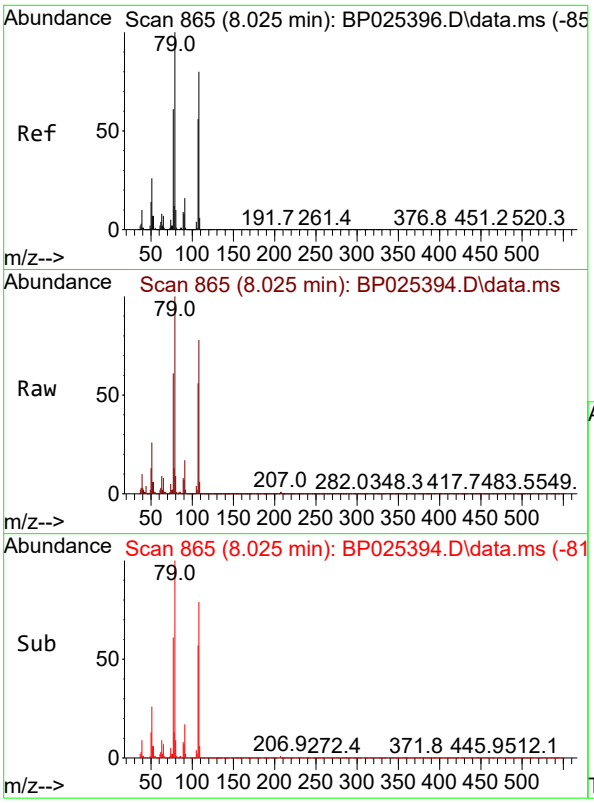


#14
1,2-Dichlorobenzene
Concen: 9.647 ng
RT: 8.143 min Scan# 885
Delta R.T. 0.000 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:146 Resp: 98589

Ion	Ratio	Lower	Upper
146	100		
148	65.1	50.4	75.6
111	43.7	34.5	51.7





#15
Benzyl Alcohol
Concen: 9.273 ng
RT: 8.025 min Scan# 8
Delta R.T. 0.000 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion: 79 Resp: 7841

Ion	Ratio	Lower	Upper
79	100		
108	78.4	63.8	95.6
77	61.0	49.0	73.4

Instrument :
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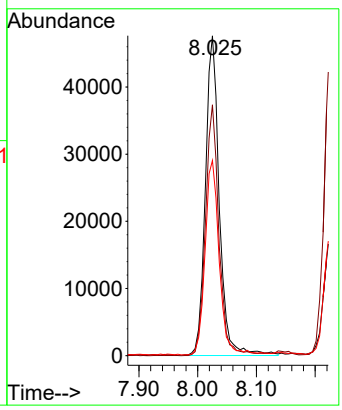
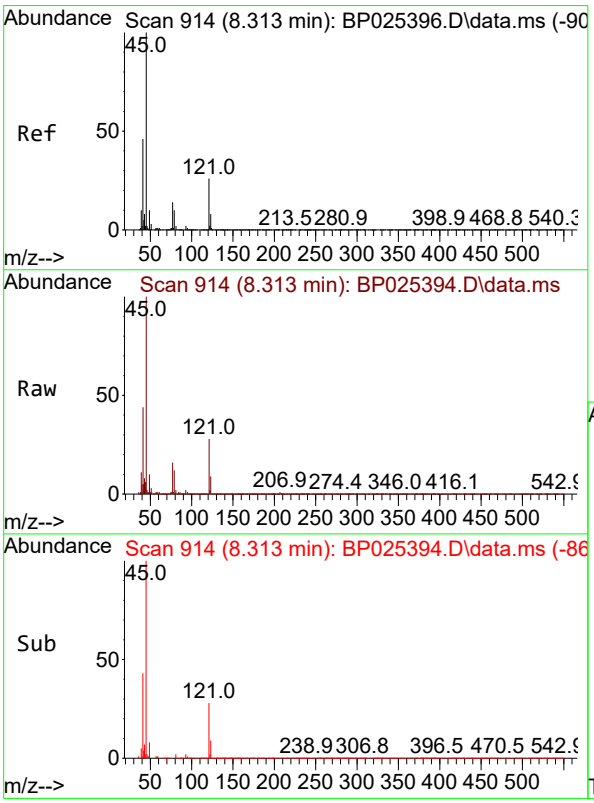
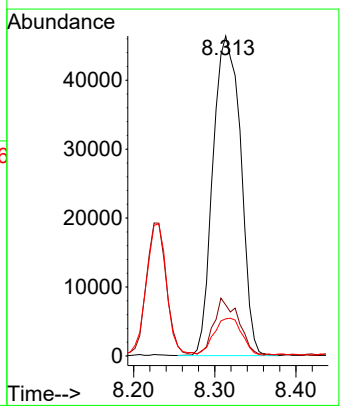


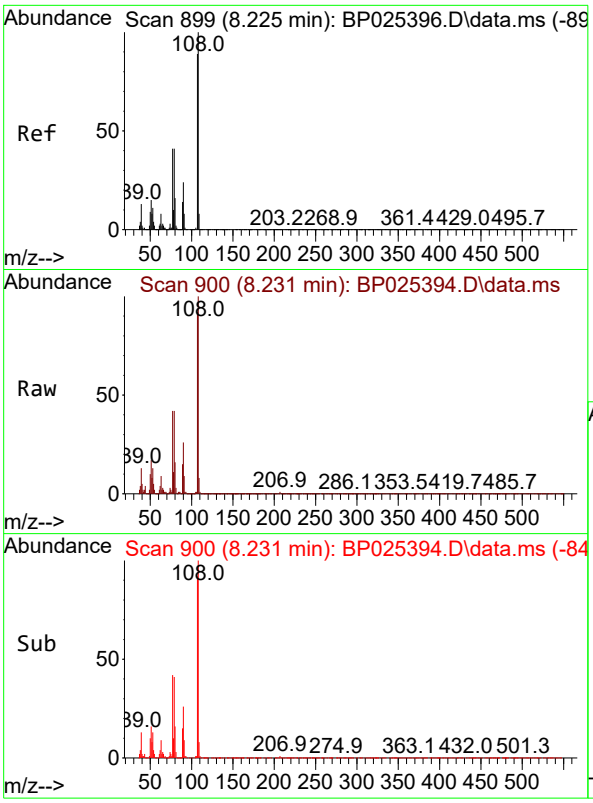


#16
2,2'-oxybis(1-Chloropropane)
Concen: 9.412 ng
RT: 8.313 min Scan# 914
Delta R.T. 0.000 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion: 45 Resp: 109744

Ion	Ratio	Lower	Upper
45	100		
77	15.9	0.0	35.3
79	11.6	0.0	31.8

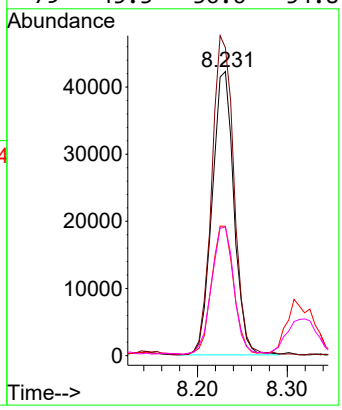




#17
2-Methylphenol
Concen: 9.153 ng
RT: 8.231 min Scan# 9
Delta R.T. 0.006 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:107 Resp: 7099

Ion	Ratio	Lower	Upper
107	100		
108	108.4	89.4	134.0
77	45.5	36.3	54.5
79	45.3	36.6	54.8



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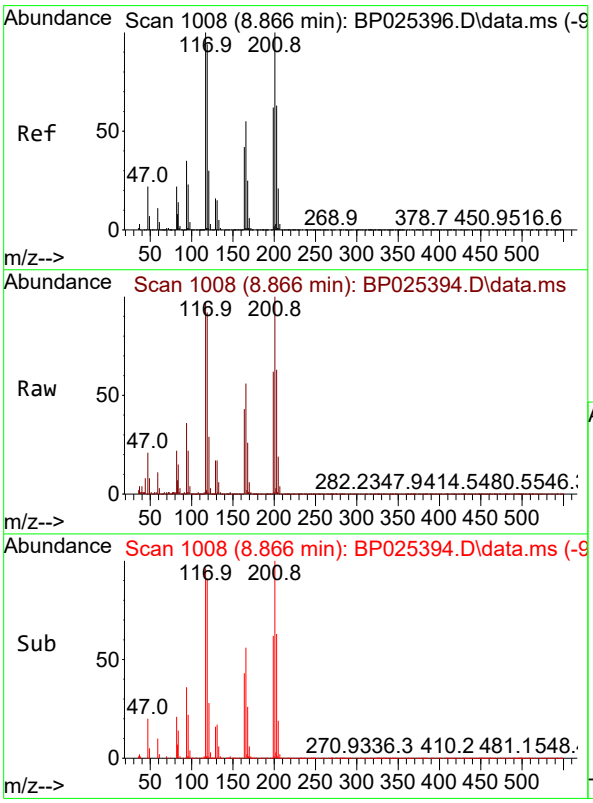
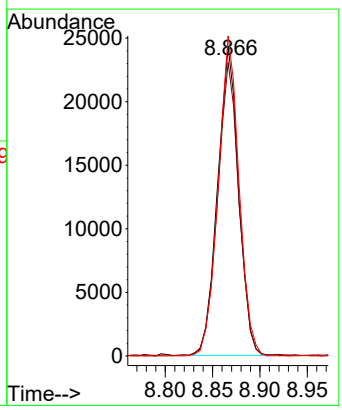
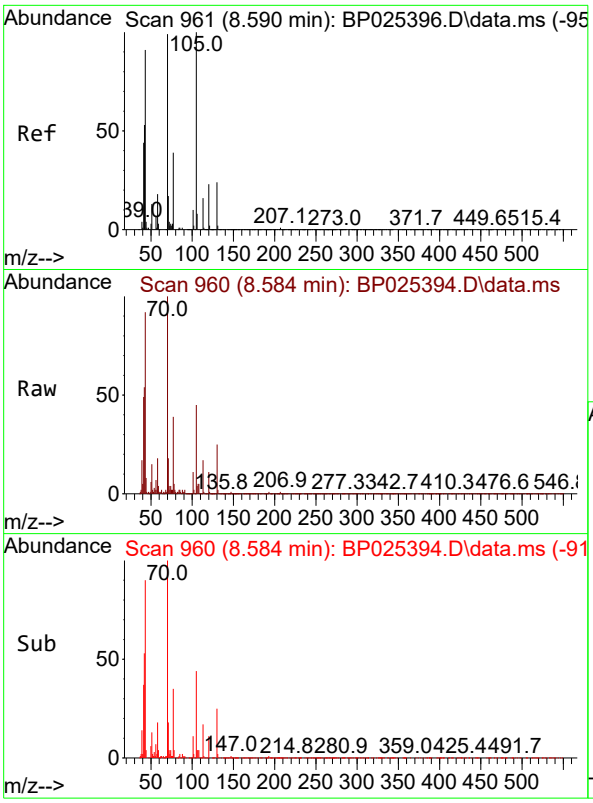


#18
Hexachloroethane
Concen: 9.654 ng
RT: 8.866 min Scan# 1008
Delta R.T. 0.000 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:117 Resp: 37473

Ion	Ratio	Lower	Upper
117	100		
119	94.8	75.1	112.7
201	103.5	80.1	120.1

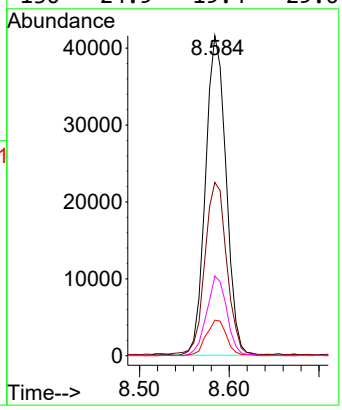




#19
n-Nitroso-di-n-propylamine
Concen: 9.366 ng
RT: 8.584 min Scan# 9
Delta R.T. -0.006 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion: 70 Resp: 6610

Ion	Ratio	Lower	Upper
70	100		
42	54.2	43.8	65.6
101	11.1	8.5	12.7
130	24.9	19.4	29.0



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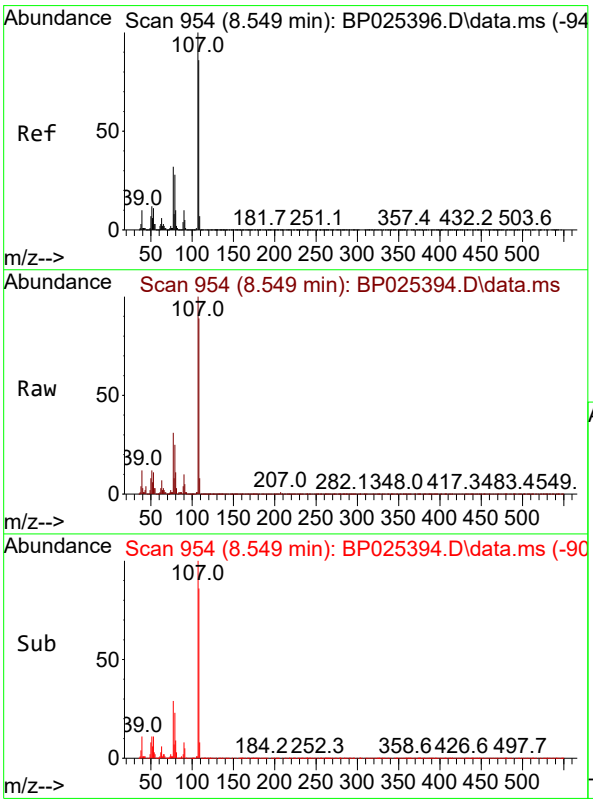
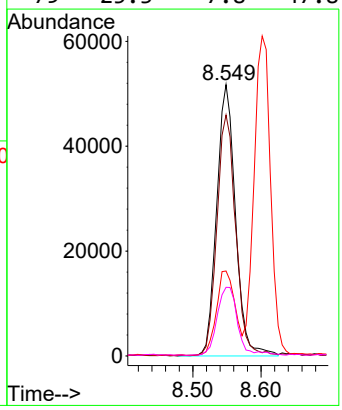
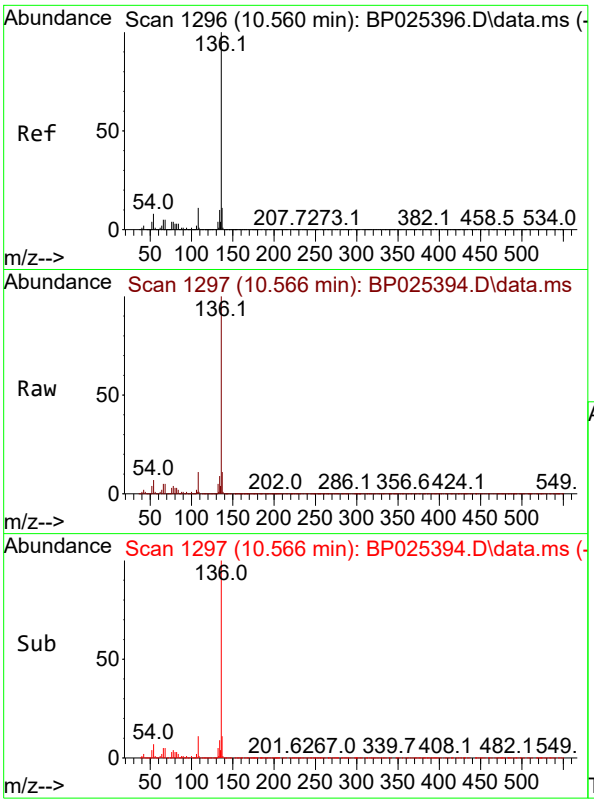


#20
3+4-Methylphenols
Concen: 9.244 ng
RT: 8.549 min Scan# 954
Delta R.T. 0.000 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:107 Resp: 99382

Ion	Ratio	Lower	Upper
107	100		
108	88.8	66.3	106.3
77	31.3	12.3	52.3
79	25.3	7.8	47.8

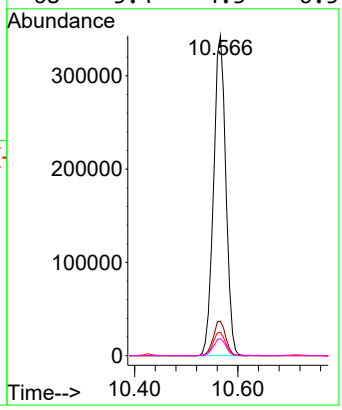




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.566 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:136 Resp: 56399

Ion	Ratio	Lower	Upper
136	100		
137	10.8	9.2	13.8
54	7.3	6.0	9.0
68	5.4	4.3	6.5



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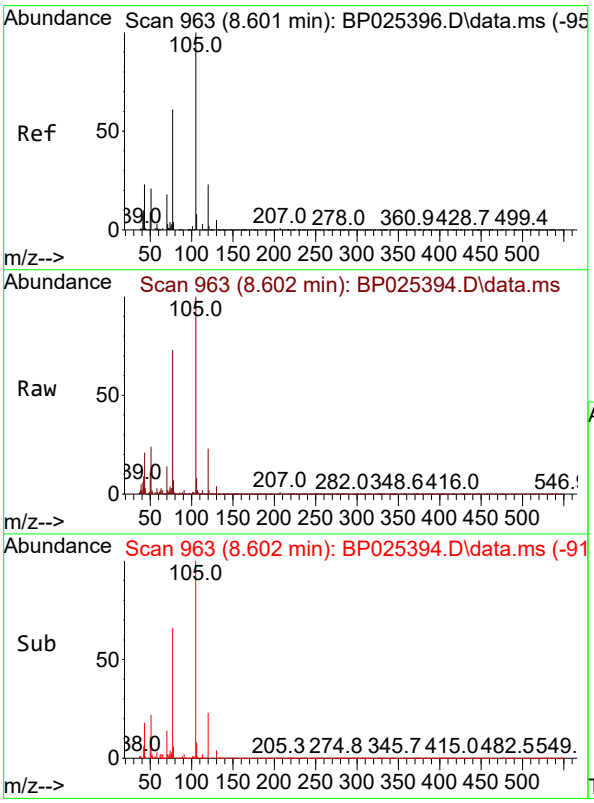
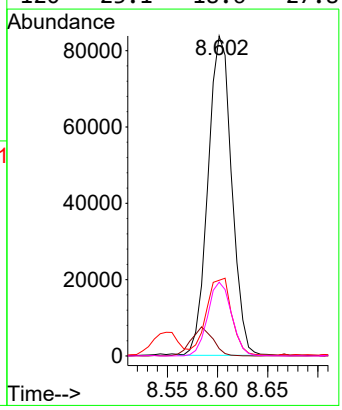
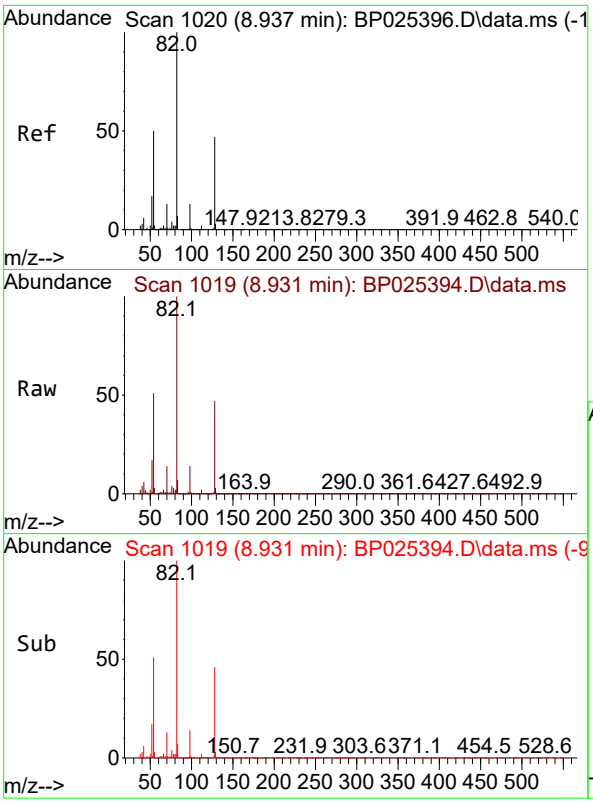


#22
Acetophenone
Concen: 9.712 ng
RT: 8.602 min Scan# 963
Delta R.T. 0.000 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:105 Resp: 137361

Ion	Ratio	Lower	Upper
105	100		
71	2.3	2.6	4.0#
51	23.7	20.6	30.8
120	23.1	18.6	27.8





#23
Nitrobenzene-d5
Concen: 19.036 ng
RT: 8.931 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion: 82 Resp: 21223

Ion	Ratio	Lower	Upper
82	100		
128	46.6	37.7	56.5
54	51.2	39.8	59.6

Instrument :
BNA_P
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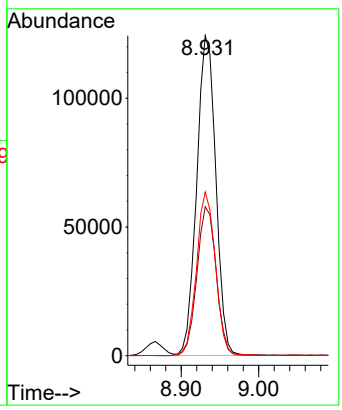
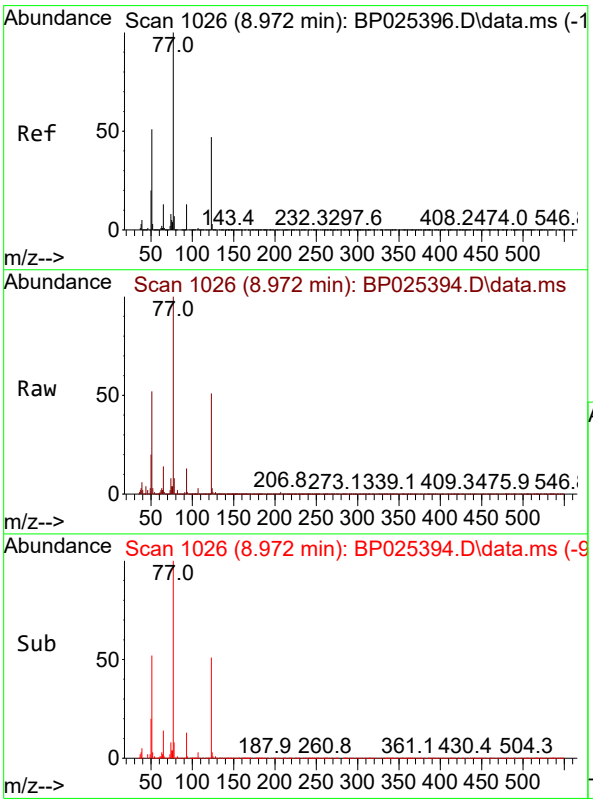
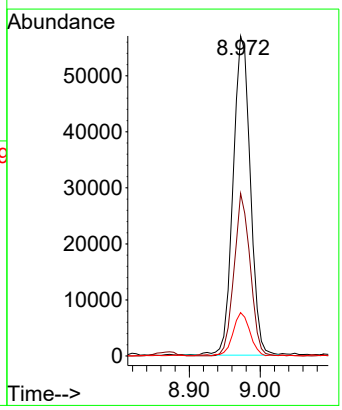


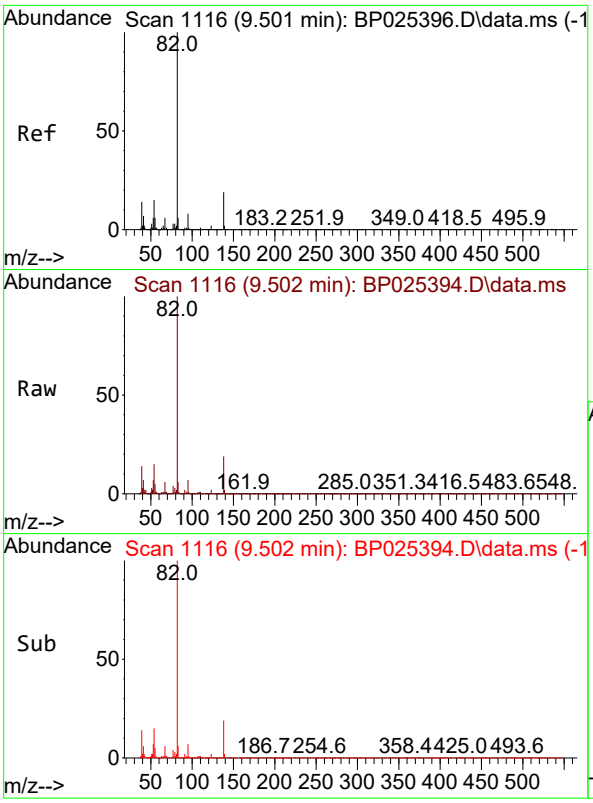


#24
Nitrobenzene
Concen: 9.685 ng
RT: 8.972 min Scan# 1026
Delta R.T. 0.000 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion: 77 Resp: 96502

Ion	Ratio	Lower	Upper
77	100		
123	50.8	38.6	58.0
65	13.6	10.6	15.8

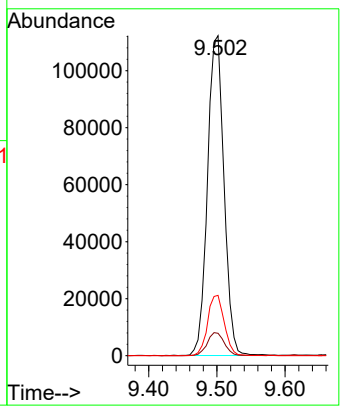




#25
Isophorone
Concen: 9.604 ng
RT: 9.502 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion: 82 Resp: 18951

Ion	Ratio	Lower	Upper
82	100		
95	7.0	6.4	9.6
138	18.8	15.4	23.0



Instrument :
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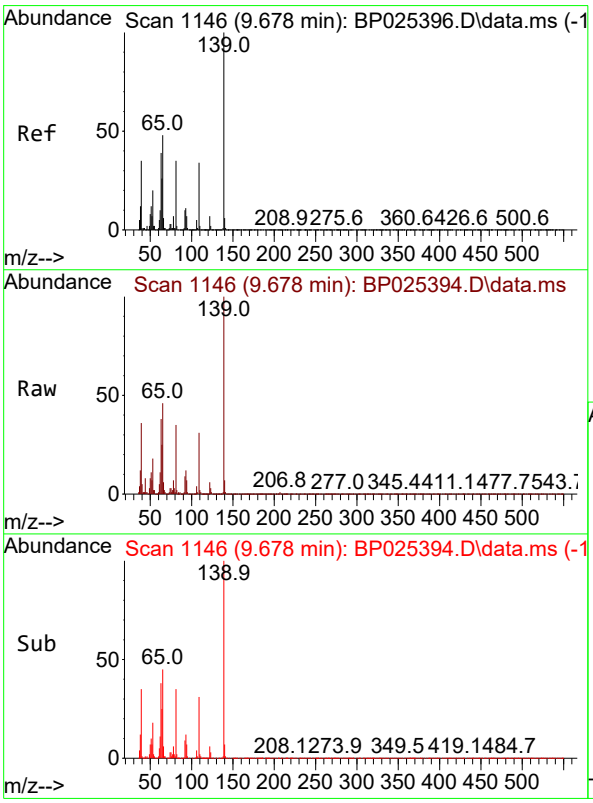
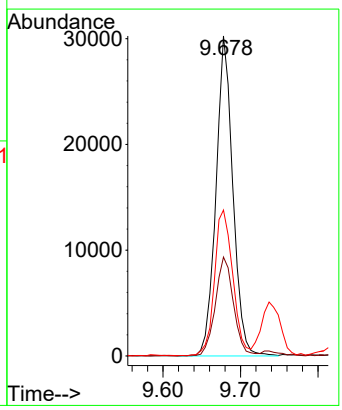
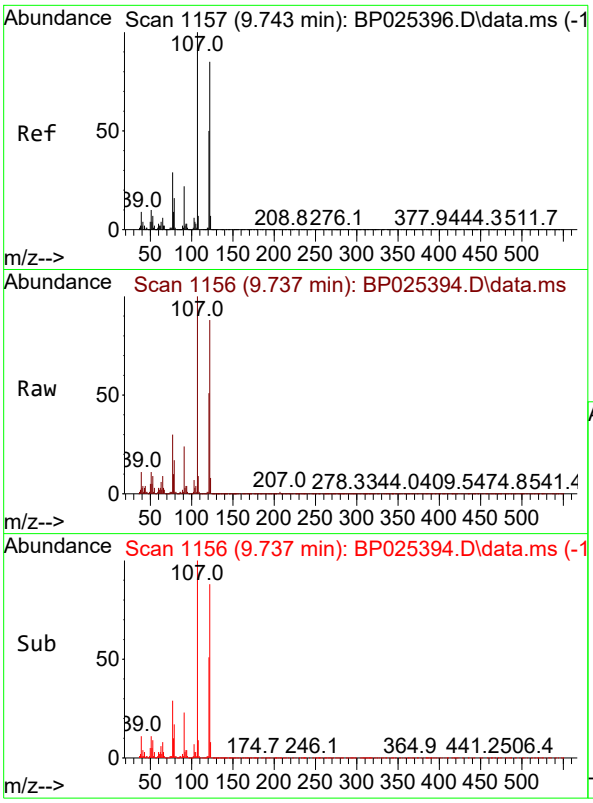


#26
2-Nitrophenol
Concen: 8.968 ng
RT: 9.678 min Scan# 1146
Delta R.T. 0.000 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:139 Resp: 45860

Ion	Ratio	Lower	Upper
139	100		
109	30.9	26.9	40.3
65	45.6	38.3	57.5

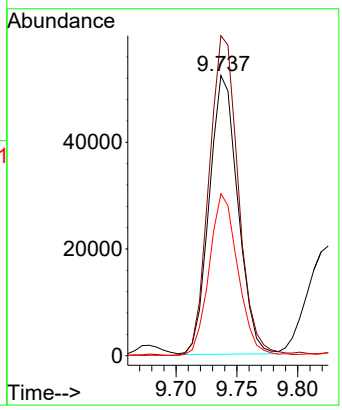




#27
2,4-Dimethylphenol
Concen: 9.718 ng
RT: 9.737 min Scan# 11
Delta R.T. -0.006 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:122 Resp: 8546

Ion	Ratio	Lower	Upper
122	100		
107	114.2	93.7	140.5
121	57.8	46.6	69.8



Instrument :
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ClientSampleId :
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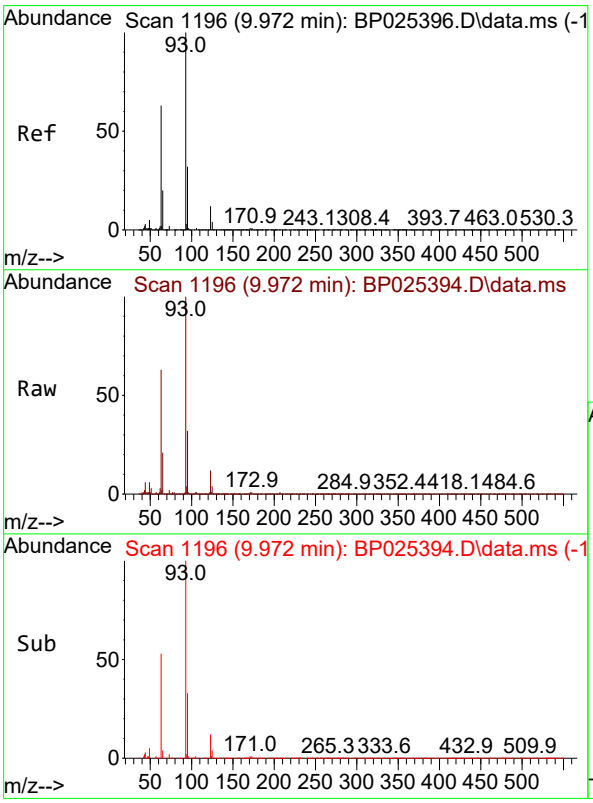
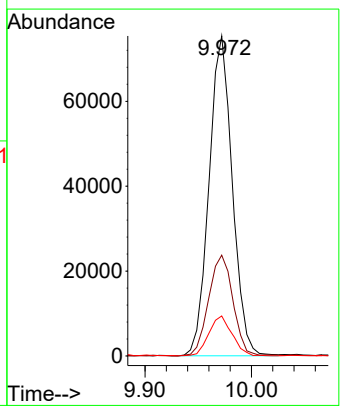
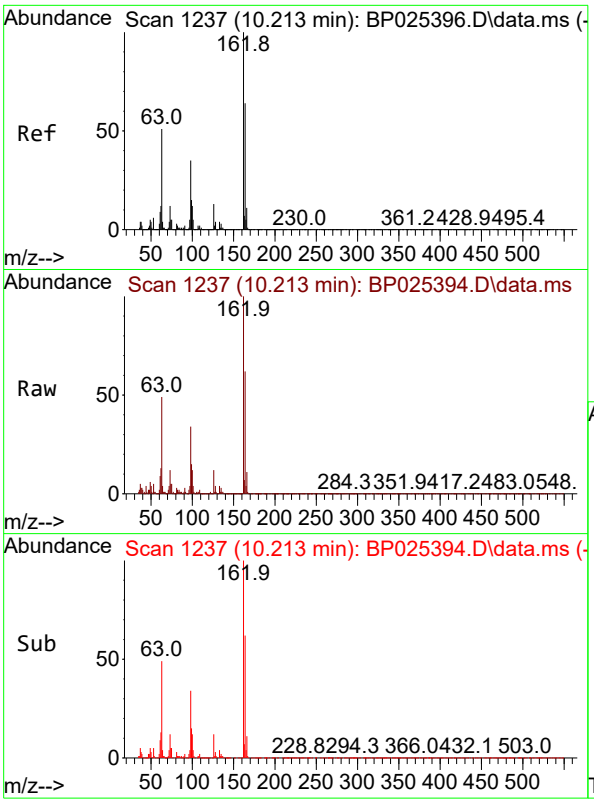


#28
bis(2-Chloroethoxy)methane
Concen: 9.611 ng
RT: 9.972 min Scan# 1196
Delta R.T. 0.000 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion: 93 Resp: 114635

Ion	Ratio	Lower	Upper
93	100		
95	31.5	25.4	38.0
123	12.5	9.4	14.0

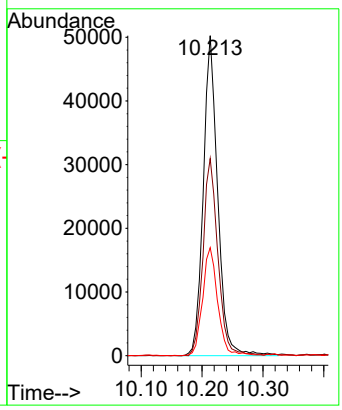




#29
2,4-Dichlorophenol
Concen: 9.464 ng
RT: 10.213 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:162 Resp: 8267

Ion	Ratio	Lower	Upper
162	100		
164	61.6	44.4	84.4
98	33.8	14.9	54.9



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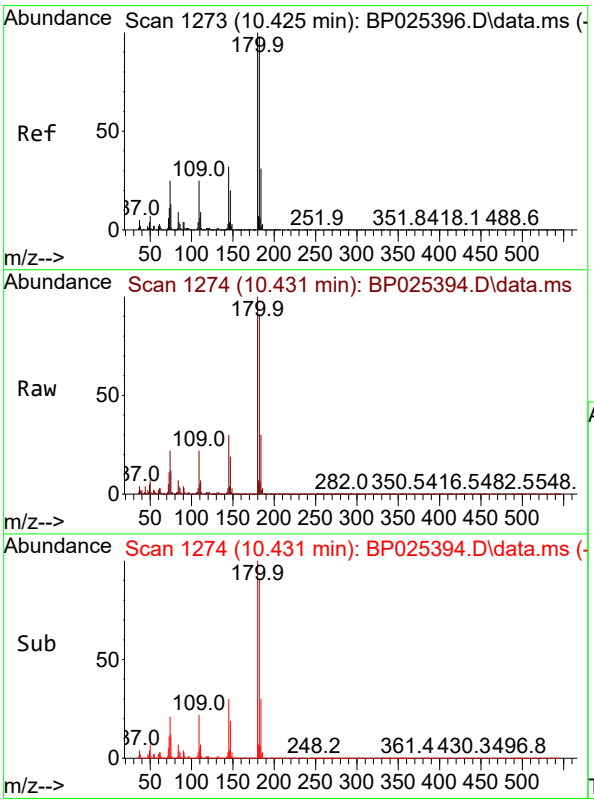
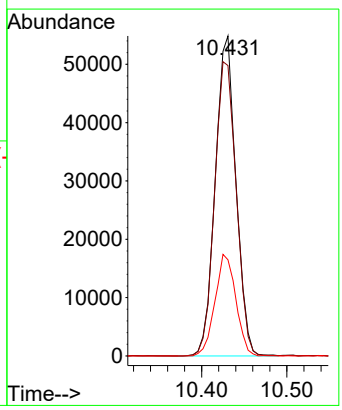
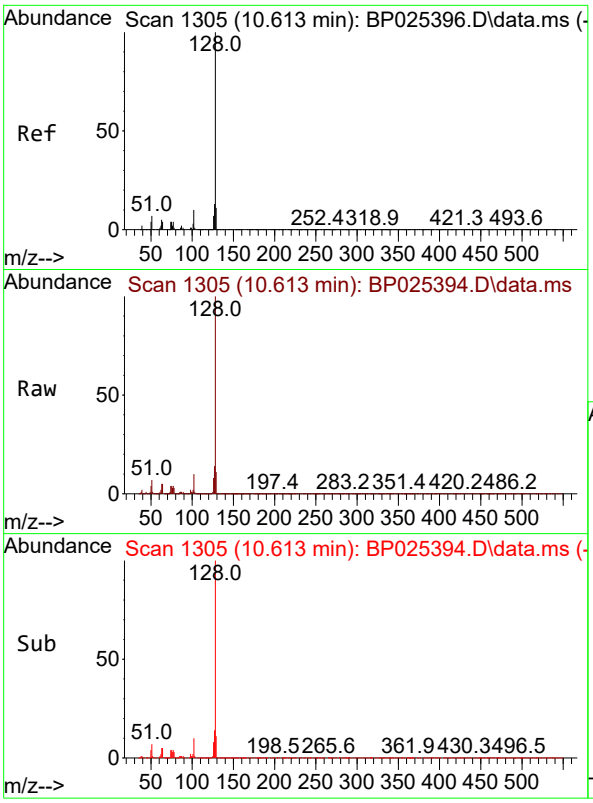


#30
1,2,4-Trichlorobenzene
Concen: 9.676 ng
RT: 10.431 min Scan# 1274
Delta R.T. 0.006 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:180 Resp: 92664

Ion	Ratio	Lower	Upper
180	100		
182	90.7	78.0	117.0
145	30.1	25.9	38.9

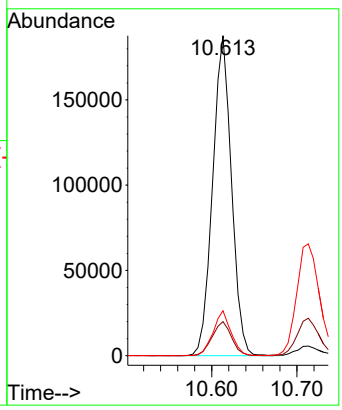




#31
Naphthalene
Concen: 9.816 ng
RT: 10.613 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:128 Resp: 28775

Ion	Ratio	Lower	Upper
128	100		
129	10.7	8.6	13.0
127	14.0	10.7	16.1



Instrument :
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ClientSampleId :
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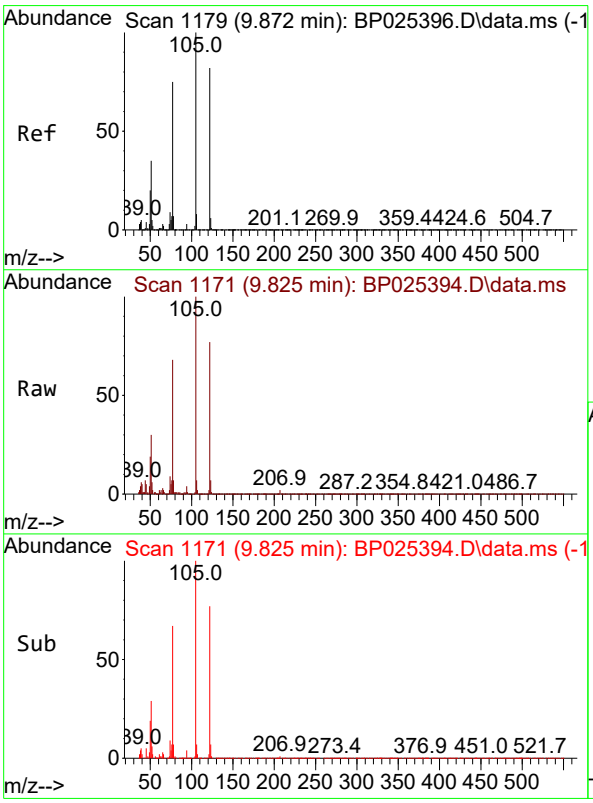
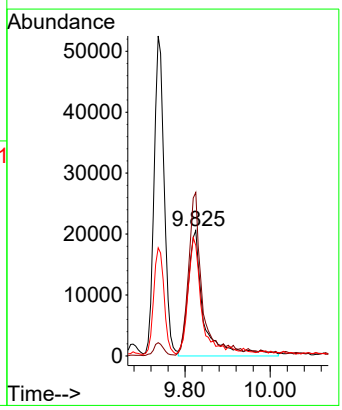
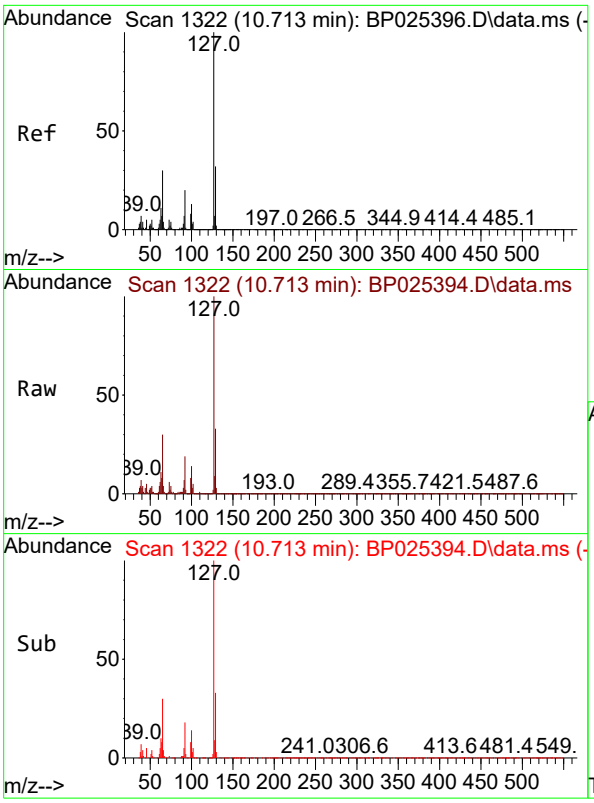


#32
Benzoic acid
Concen: 8.188 ng m
RT: 9.825 min Scan# 1171
Delta R.T. -0.047 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:122 Resp: 53034

Ion	Ratio	Lower	Upper
122	100		
105	130.4	100.6	140.6
77	88.0	71.5	111.5

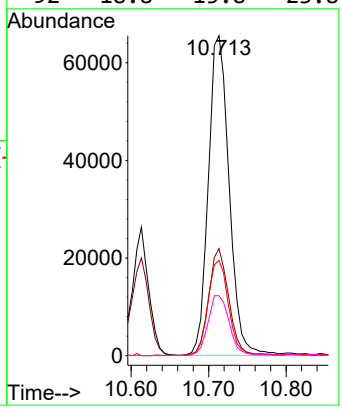




#33
4-Chloroaniline
Concen: 9.472 ng
RT: 10.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:127 Resp: 12264

Ion	Ratio	Lower	Upper
127	100		
129	33.5	25.4	38.2
65	29.7	23.8	35.6
92	18.8	15.8	23.8



Instrument :
BNA_P
ClientSampleId :
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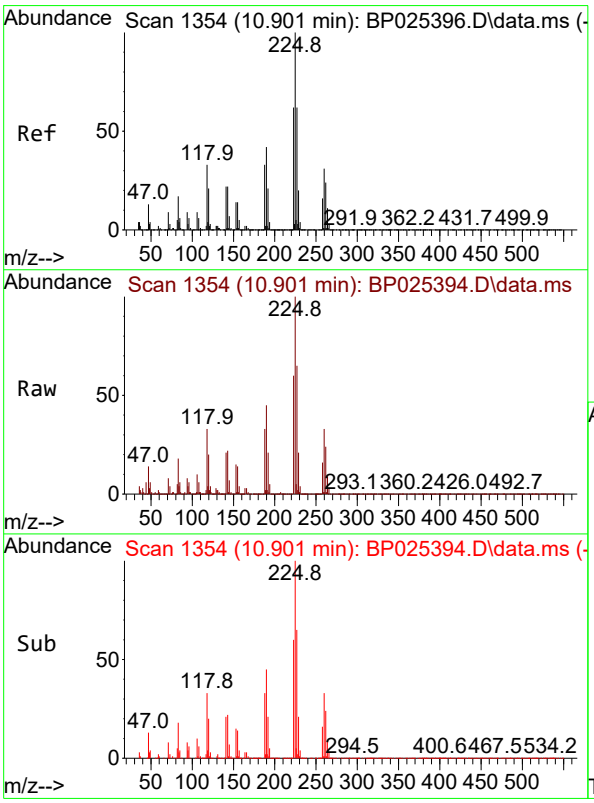
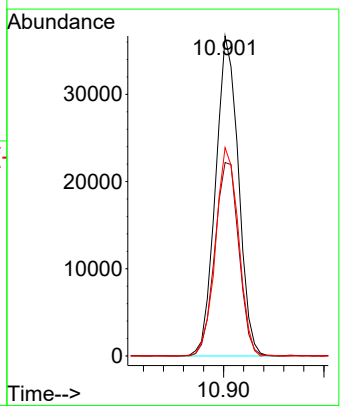
Supervised By :Jagrut Upadhyay 08/15/2025

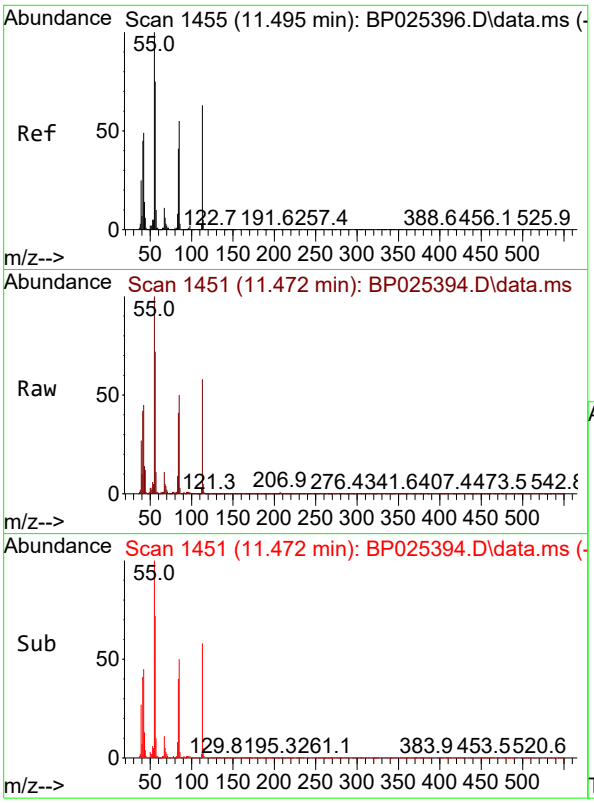


#34
Hexachlorobutadiene
Concen: 9.695 ng
RT: 10.901 min Scan# 1354
Delta R.T. 0.000 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:225 Resp: 57821

Ion	Ratio	Lower	Upper
225	100		
223	60.5	50.0	75.0
227	65.1	49.7	74.5





#35
Caprolactam
Concen: 10.001 ng
RT: 11.472 min Scan# 14
Delta R.T. -0.023 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:113 Resp: 3203

Ion	Ratio	Lower	Upper
113	100		
55	172.3	140.0	180.0
56	124.4	100.0	140.0

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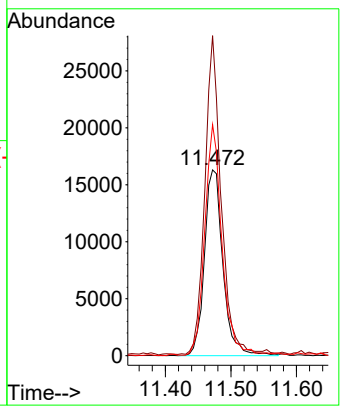
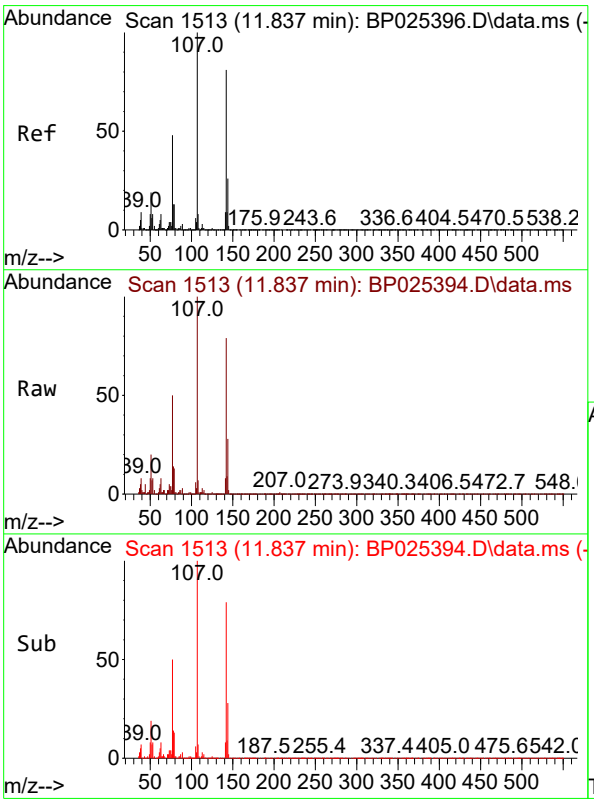
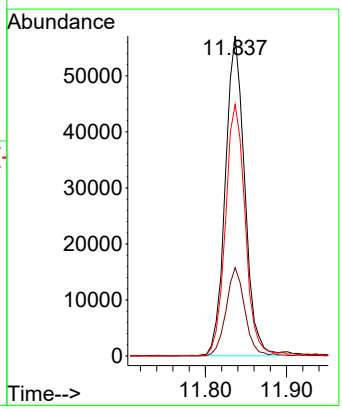


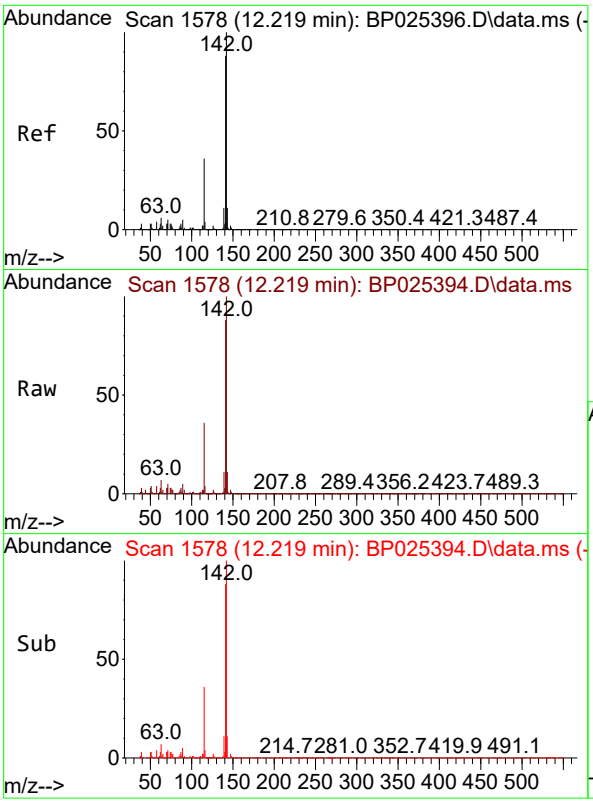


#36
4-Chloro-3-methylphenol
Concen: 9.431 ng
RT: 11.837 min Scan# 1513
Delta R.T. 0.000 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:107 Resp: 94538

Ion	Ratio	Lower	Upper
107	100		
144	27.6	21.0	31.4
142	78.6	64.6	97.0

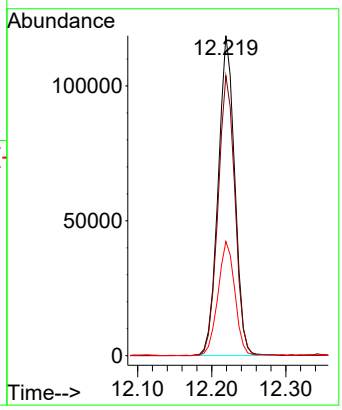




#37
2-Methylnaphthalene
Concen: 9.654 ng
RT: 12.219 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:142 Resp: 18417

Ion	Ratio	Lower	Upper
142	100		
141	87.5	70.3	105.5
115	35.7	28.9	43.3



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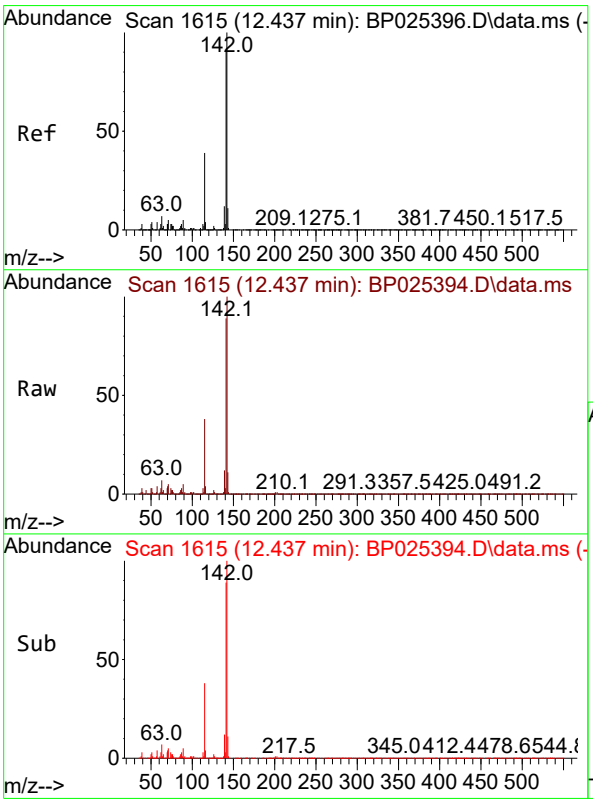
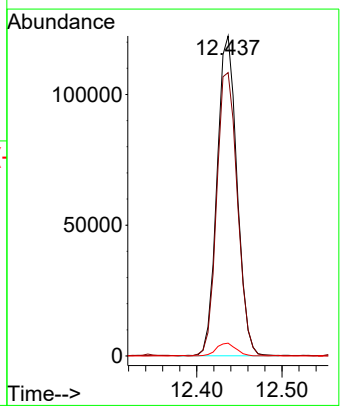
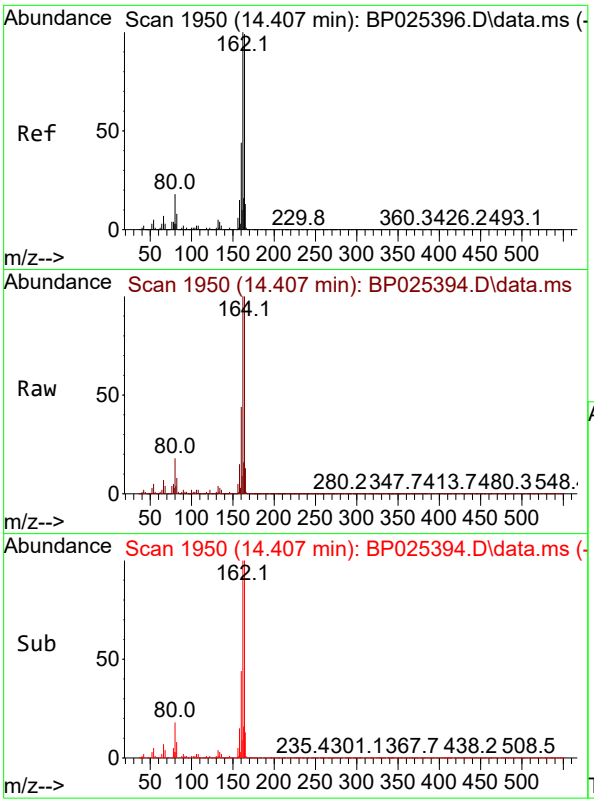


#38
1-Methylnaphthalene
Concen: 9.817 ng
RT: 12.437 min Scan# 1615
Delta R.T. 0.000 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:142 Resp: 199160

Ion	Ratio	Lower	Upper
142	100		
141	88.6	73.1	109.7
116	4.0	3.2	4.8

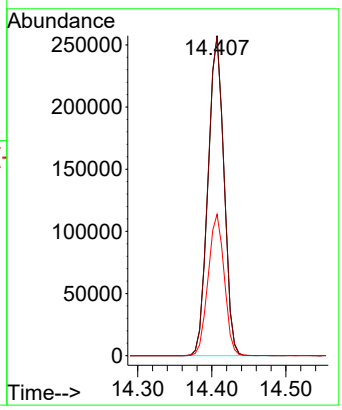




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.407 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:164 Resp: 383199

Ion	Ratio	Lower	Upper
164	100		
162	99.7	81.0	121.6
160	44.2	35.4	53.2



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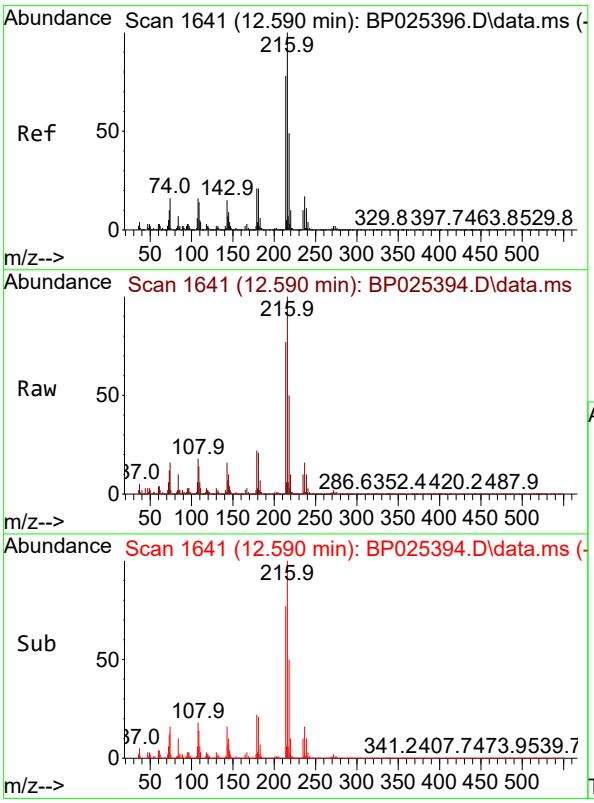
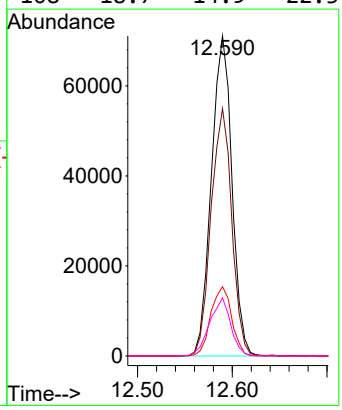
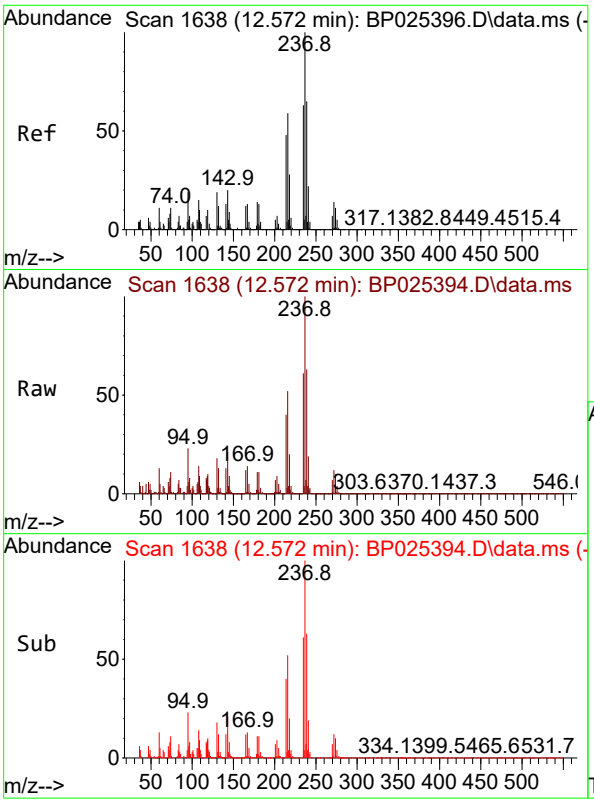


#40
1,2,4,5-Tetrachlorobenzene
Concen: 9.678 ng
RT: 12.590 min Scan# 1641
Delta R.T. 0.000 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:216 Resp: 107104

Ion	Ratio	Lower	Upper
216	100		
214	77.8	63.0	94.4
179	22.0	17.1	25.7
108	18.7	14.9	22.3

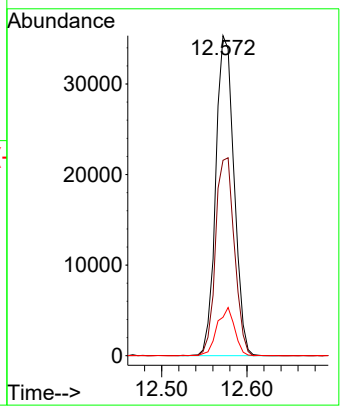




#41
Hexachlorocyclopentadiene
Concen: 7.867 ng
RT: 12.572 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:237 Resp: 5258

Ion	Ratio	Lower	Upper
237	100		
235	61.1	42.7	82.7
272	12.0	0.0	34.0



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ClientSampleId :
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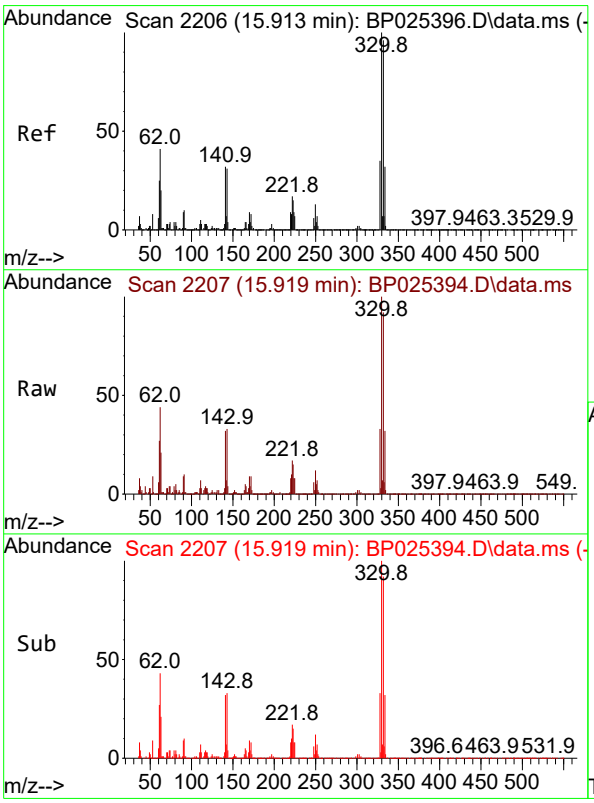
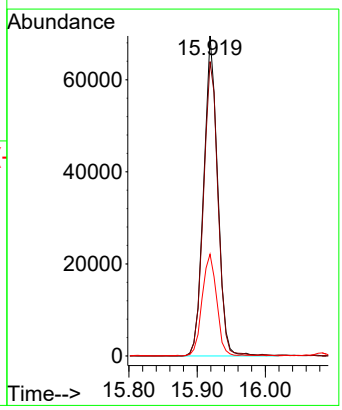
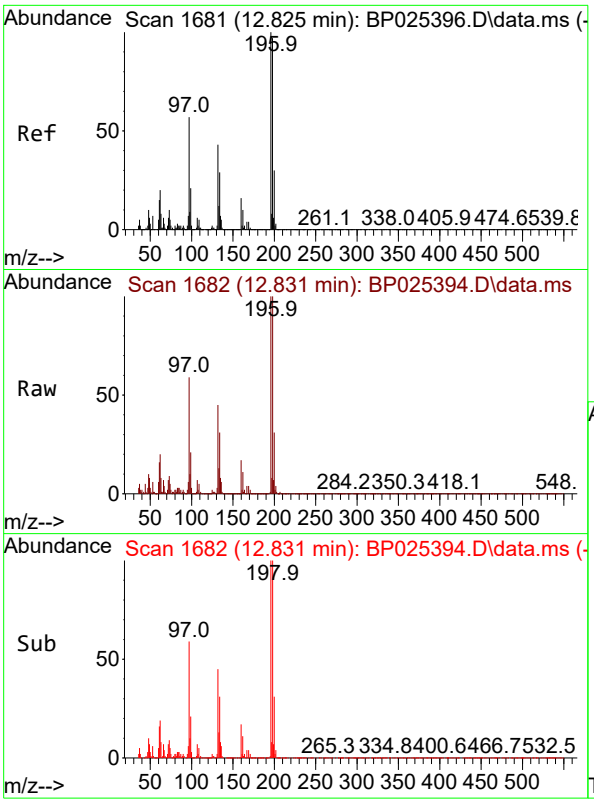


#42
2,4,6-Tribromophenol
Concen: 19.210 ng
RT: 15.919 min Scan# 2207
Delta R.T. 0.006 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:330 Resp: 99083

Ion	Ratio	Lower	Upper
330	100		
332	95.4	77.3	115.9
141	33.1	26.6	39.8

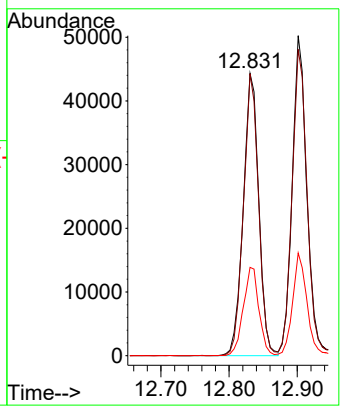




#43
2,4,6-Trichlorophenol
Concen: 9.339 ng
RT: 12.831 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:196 Resp: 6978

Ion	Ratio	Lower	Upper
196	100		
198	99.9	77.2	115.8
200	31.3	23.9	35.9



Instrument :
BNA_P
ClientSampleId :
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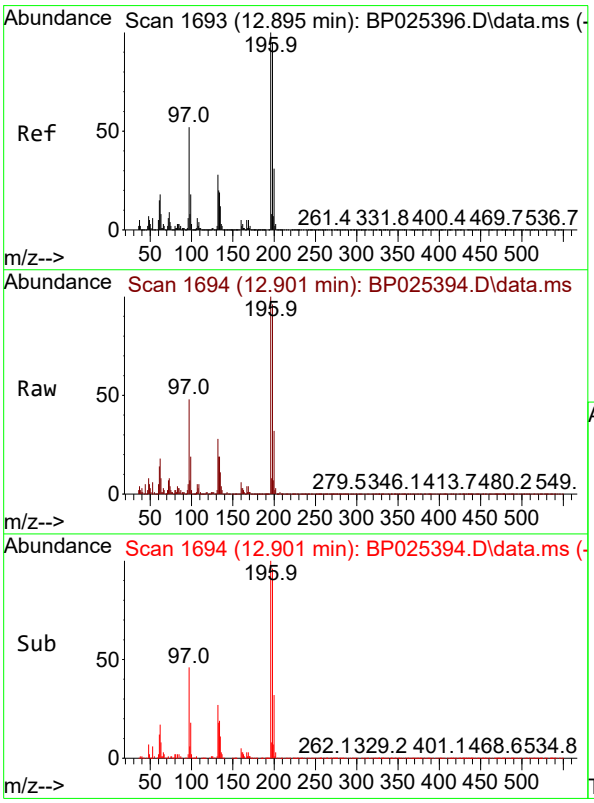
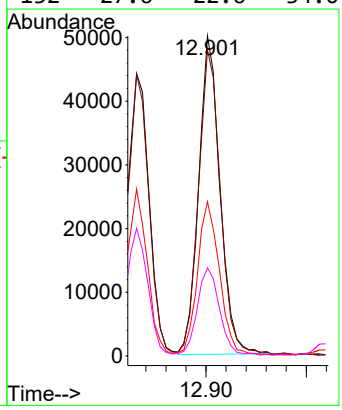
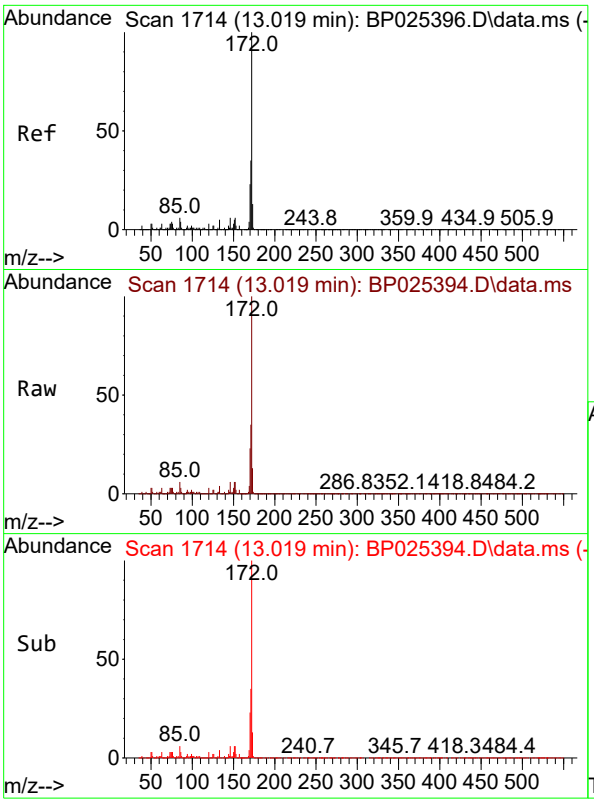


#44
2,4,5-Trichlorophenol
Concen: 9.006 ng
RT: 12.901 min Scan# 1694
Delta R.T. 0.006 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:196 Resp: 73744

Ion	Ratio	Lower	Upper
196	100		
198	95.7	76.2	114.2
97	48.2	41.2	61.8
132	27.6	22.6	34.0





#45
2-Fluorobiphenyl
Concen: 20.271 ng
RT: 13.019 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:172 Resp: 56835

Ion	Ratio	Lower	Upper
172	100		
171	35.5	28.1	42.1
170	22.9	18.6	28.0

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

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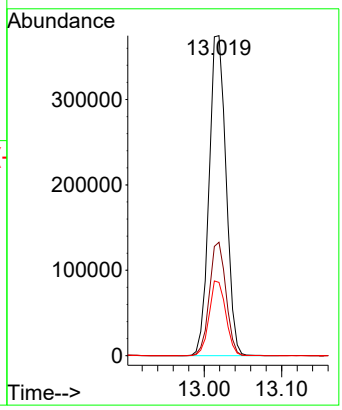
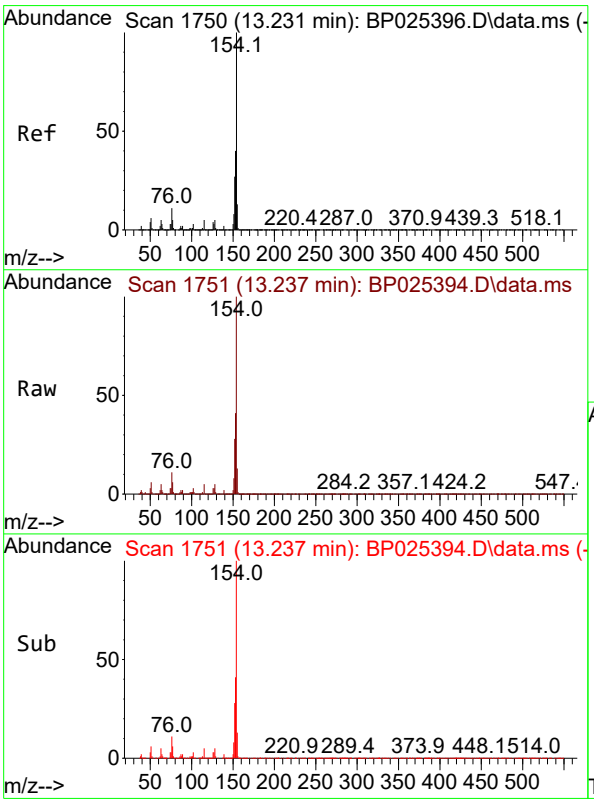
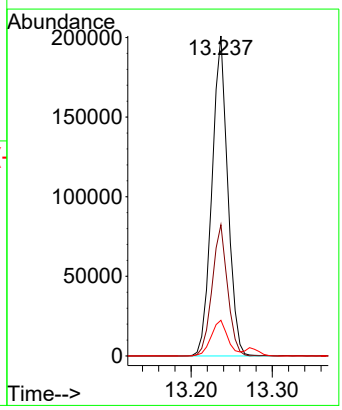


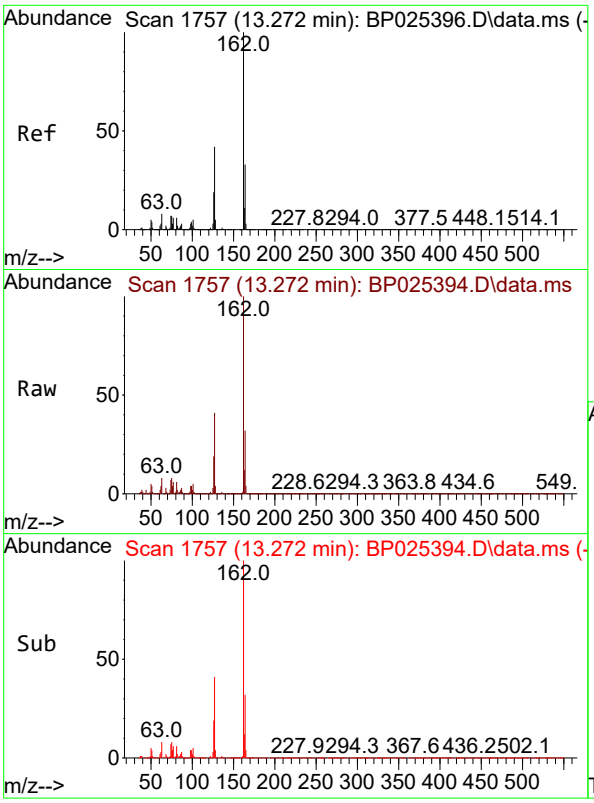


#46
1,1'-Biphenyl
Concen: 9.763 ng
RT: 13.237 min Scan# 1751
Delta R.T. 0.006 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:154 Resp: 271710

Ion	Ratio	Lower	Upper
154	100		
153	41.0	19.5	59.5
76	11.2	0.0	31.1

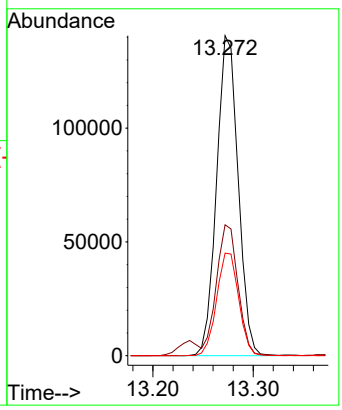




#47
2-Chloronaphthalene
Concen: 9.666 ng
RT: 13.272 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:162 Resp: 20941

Ion	Ratio	Lower	Upper
162	100		
127	40.9	33.4	50.2
164	32.0	26.2	39.2



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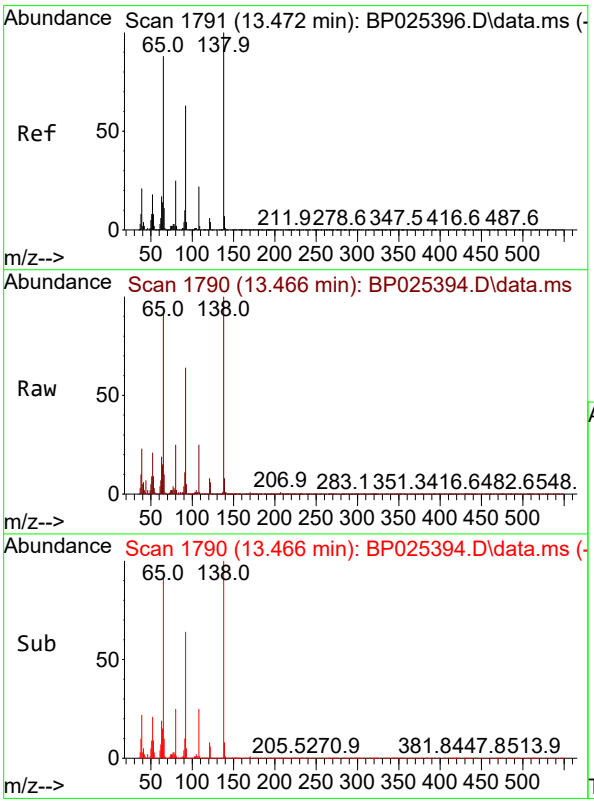
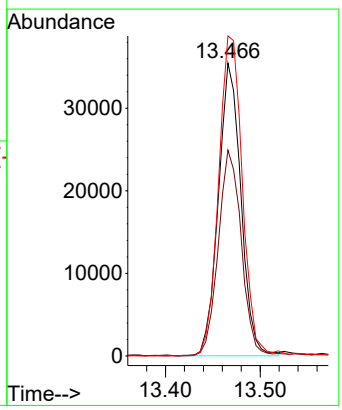
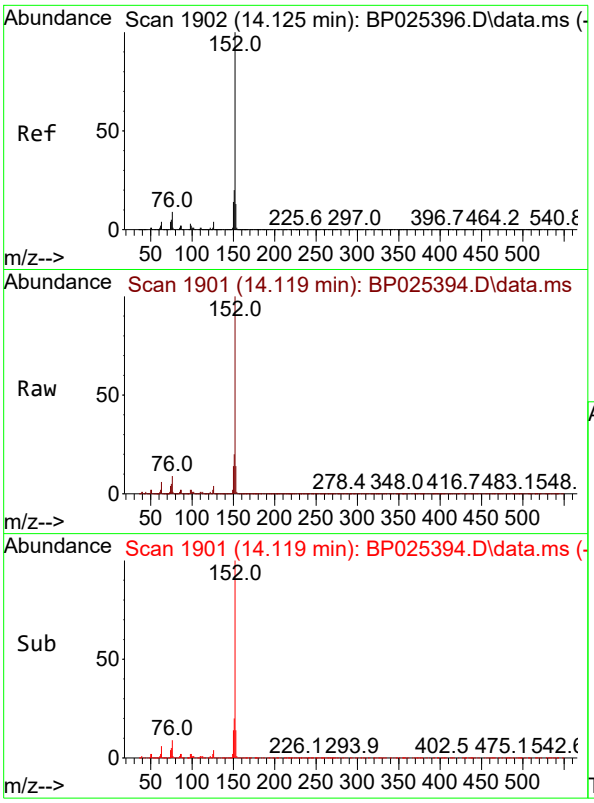


#48
2-Nitroaniline
Concen: 9.287 ng
RT: 13.466 min Scan# 1790
Delta R.T. -0.006 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion: 65 Resp: 58630

Ion	Ratio	Lower	Upper
65	100		
92	70.3	57.6	86.4
138	109.3	91.0	136.6

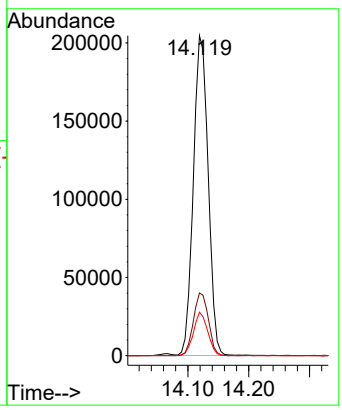




#49
Acenaphthylene
Concen: 9.652 ng
RT: 14.119 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:152 Resp: 34602

Ion	Ratio	Lower	Upper
152	100		
151	19.6	16.0	24.0
153	13.6	10.6	15.8



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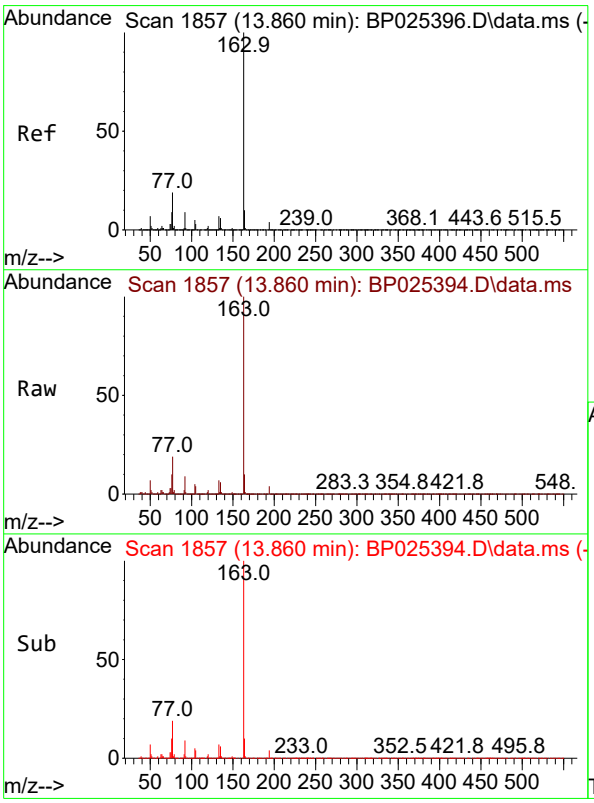
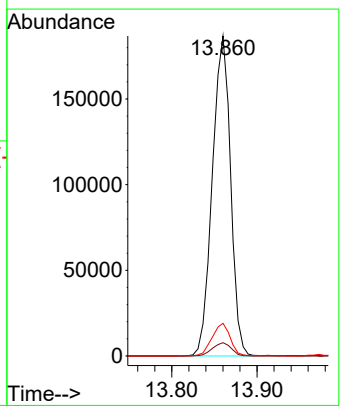
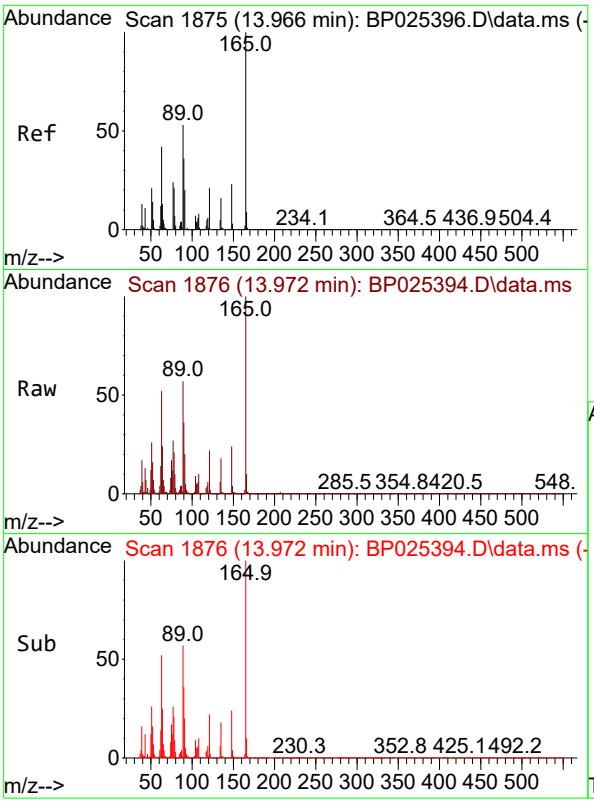


#50
Dimethylphthalate
Concen: 9.896 ng
RT: 13.860 min Scan# 1857
Delta R.T. 0.000 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:163 Resp: 277701

Ion	Ratio	Lower	Upper
163	100		
194	4.2	3.4	5.0
164	10.2	7.9	11.9

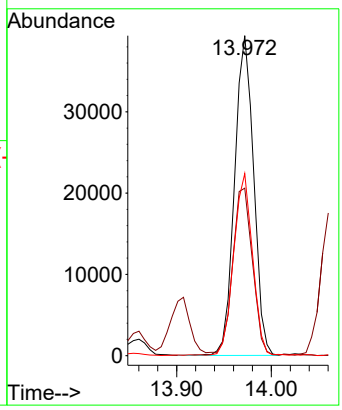




#51
2,6-Dinitrotoluene
Concen: 9.292 ng
RT: 13.972 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:165 Resp: 5495

Ion	Ratio	Lower	Upper
165	100		
63	52.3	40.9	61.3
89	56.9	42.1	63.1



Instrument :
BNA_P
ClientSampleId :
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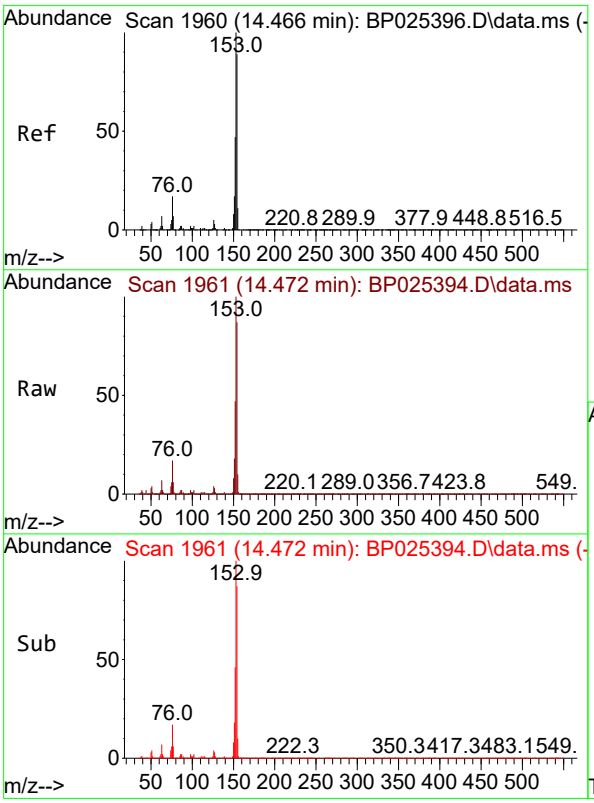
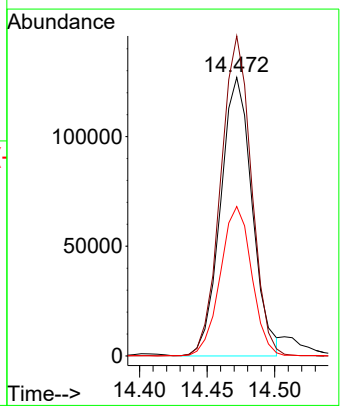
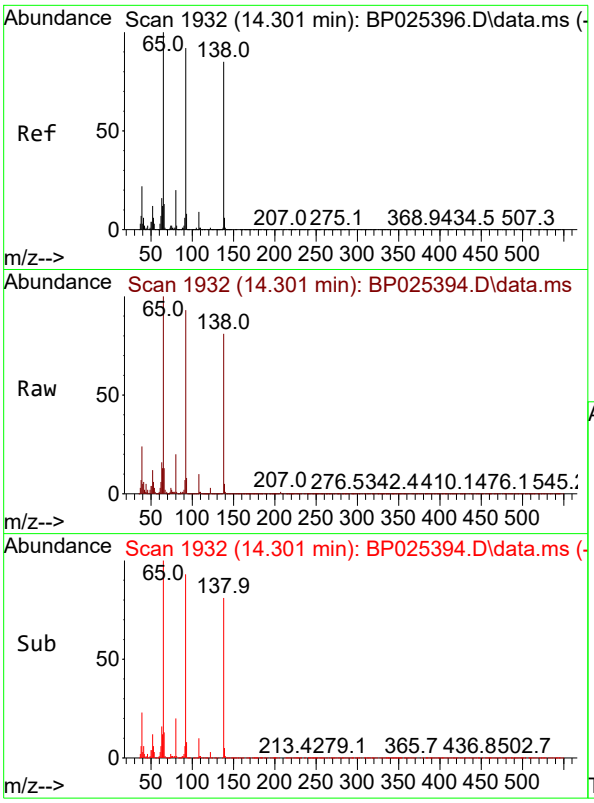


#52
Acenaphthene
Concen: 9.848 ng m
RT: 14.472 min Scan# 1961
Delta R.T. 0.006 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:154 Resp: 207239

Ion	Ratio	Lower	Upper
154	100		
153	114.8	90.2	135.2
152	53.6	42.1	63.1





#53
3-Nitroaniline
Concen: 9.466 ng
RT: 14.301 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:138 Resp: 6299

Ion	Ratio	Lower	Upper
138	100		
108	12.1	8.3	12.5
92	114.9	86.2	129.2

Instrument :
BNA_P
ClientSampleId :
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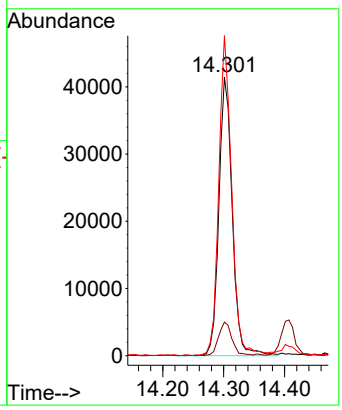
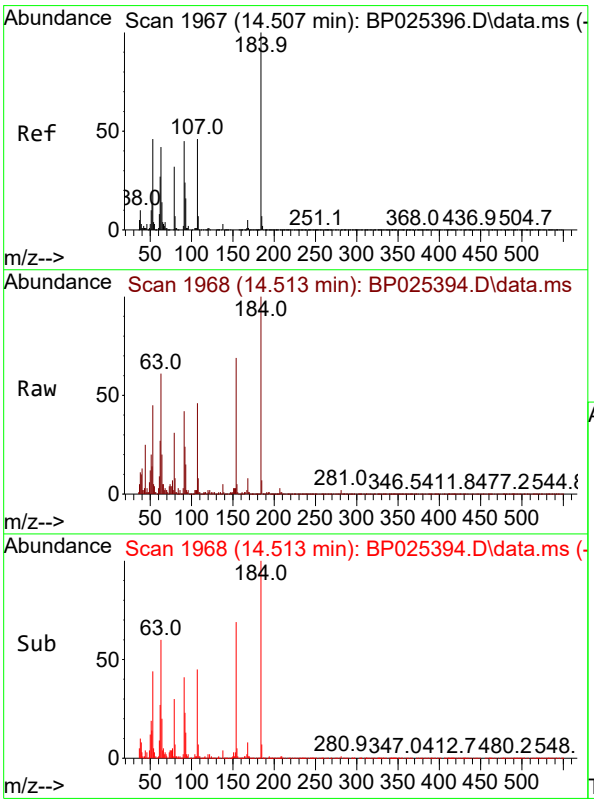
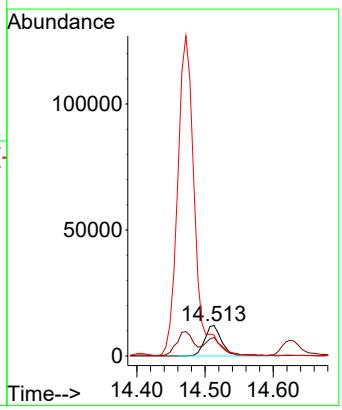


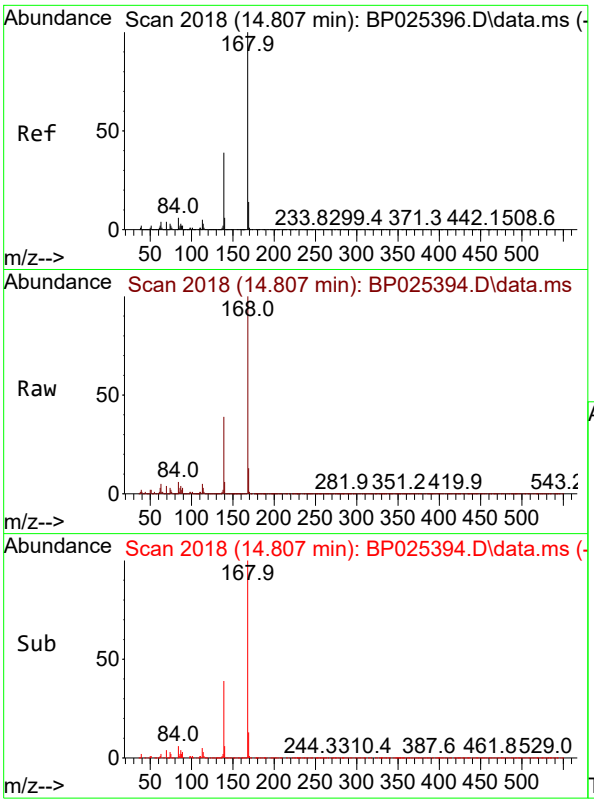


#54
2,4-Dinitrophenol
Concen: 6.886 ng
RT: 14.513 min Scan# 1968
Delta R.T. 0.006 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:184 Resp: 21748

Ion	Ratio	Lower	Upper
184	100		
63	60.8	49.4	74.2
154	69.1	54.6	82.0

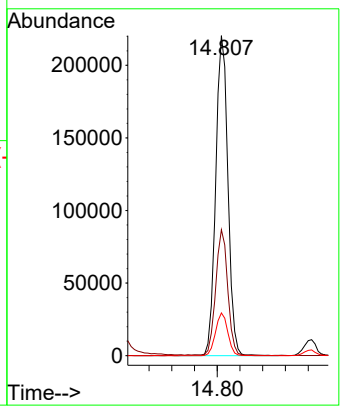




#55
Dibenzofuran
Concen: 9.851 ng
RT: 14.807 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:168 Resp: 32773

Ion	Ratio	Lower	Upper
168	100		
139	39.3	31.5	47.3
169	13.4	10.9	16.3



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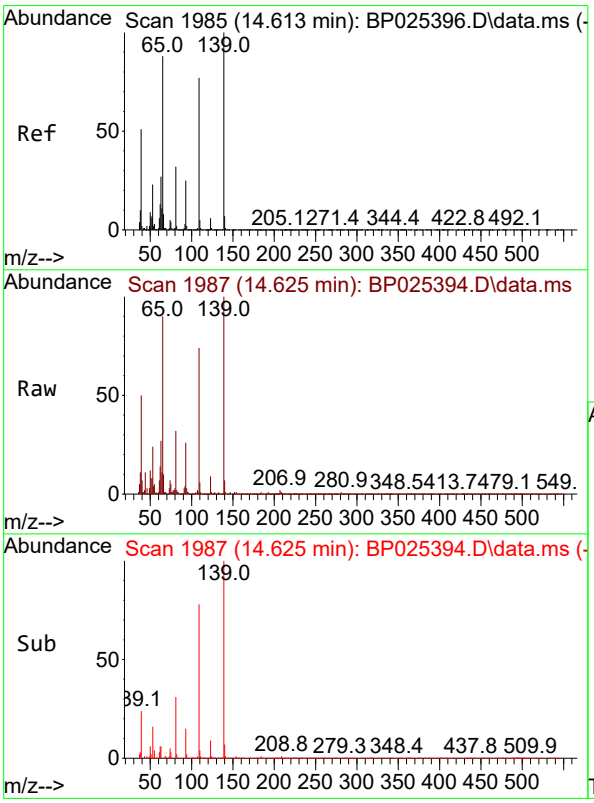
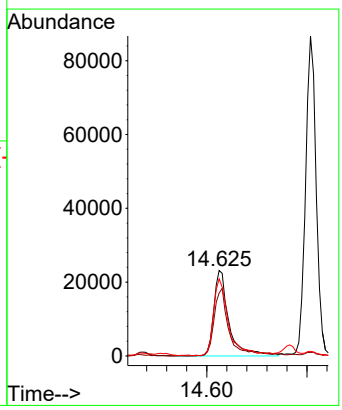
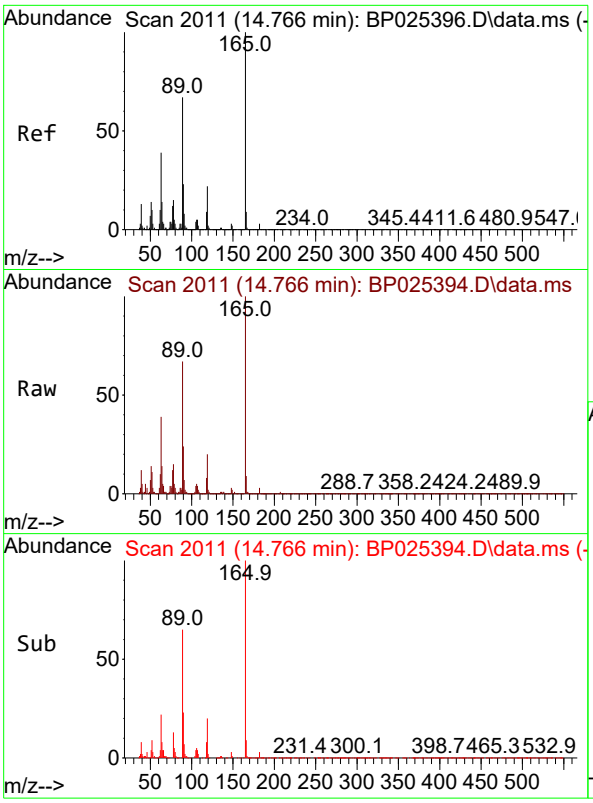


#56
4-Nitrophenol
Concen: 8.797 ng
RT: 14.625 min Scan# 1987
Delta R.T. 0.012 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:139 Resp: 48103

Ion	Ratio	Lower	Upper
139	100		
109	73.8	56.6	96.6
65	90.2	68.2	108.2

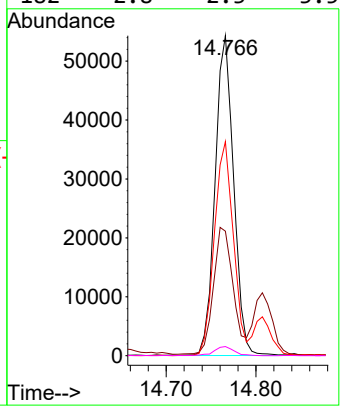




#57
2,4-Dinitrotoluene
Concen: 9.237 ng
RT: 14.766 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:165 Resp: 7795

Ion	Ratio	Lower	Upper
165	100		
63	38.9	31.4	47.2
89	66.9	53.3	79.9
182	2.8	2.3	3.5



Instrument :
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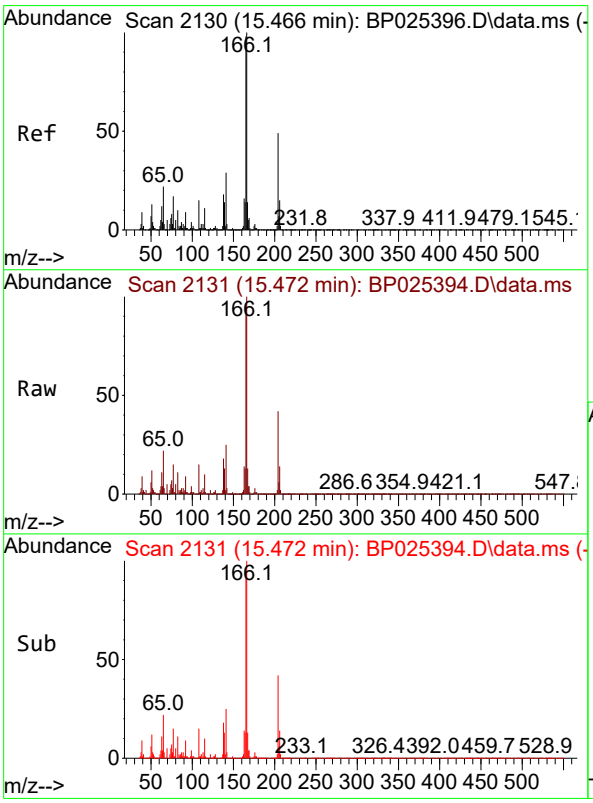
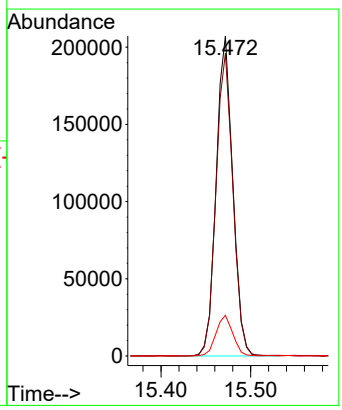
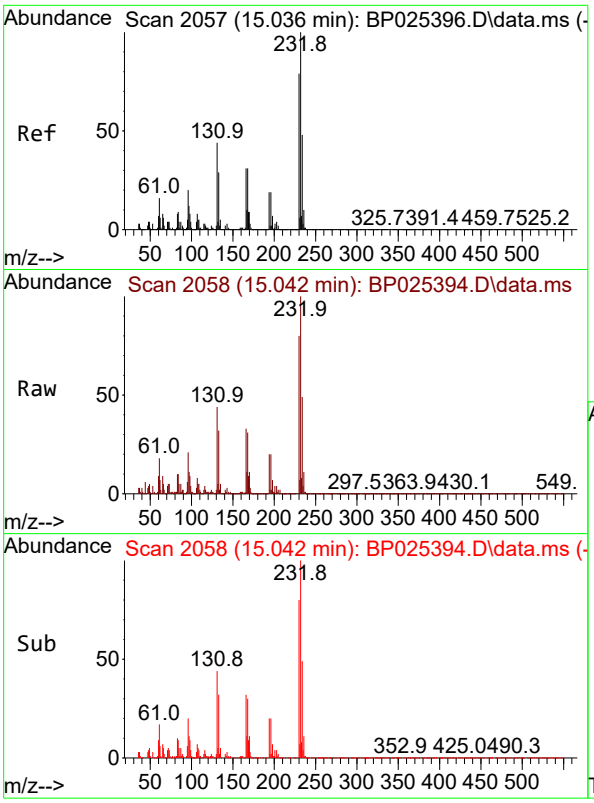


#58
Fluorene
Concen: 10.156 ng
RT: 15.472 min Scan# 2131
Delta R.T. 0.006 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:166 Resp: 266610

Ion	Ratio	Lower	Upper
166	100		
165	94.6	78.8	118.2
167	12.7	11.0	16.4

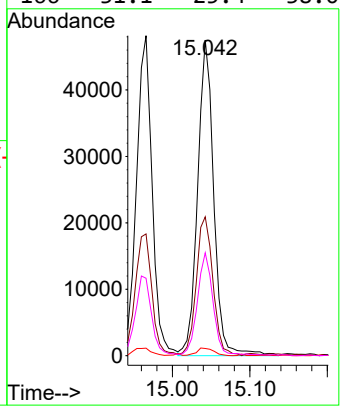




#59
2,3,4,6-Tetrachlorophenol
Concen: 9.533 ng
RT: 15.042 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:232 Resp: 6893

Ion	Ratio	Lower	Upper
232	100		
131	45.2	37.0	55.6
130	2.5	1.9	2.9
166	31.1	25.4	38.0



Instrument :
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ClientSampleId :
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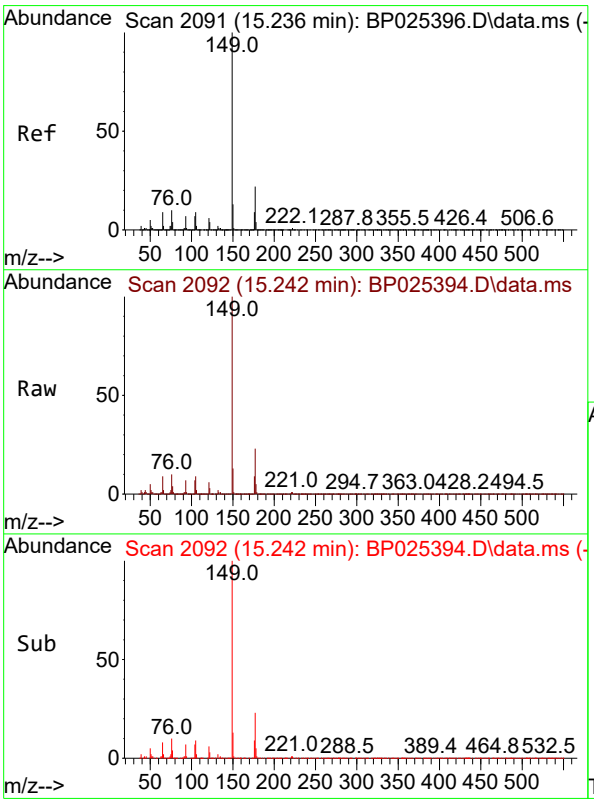
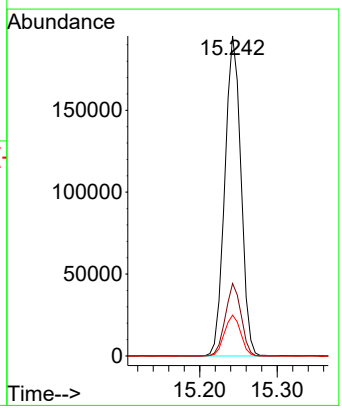
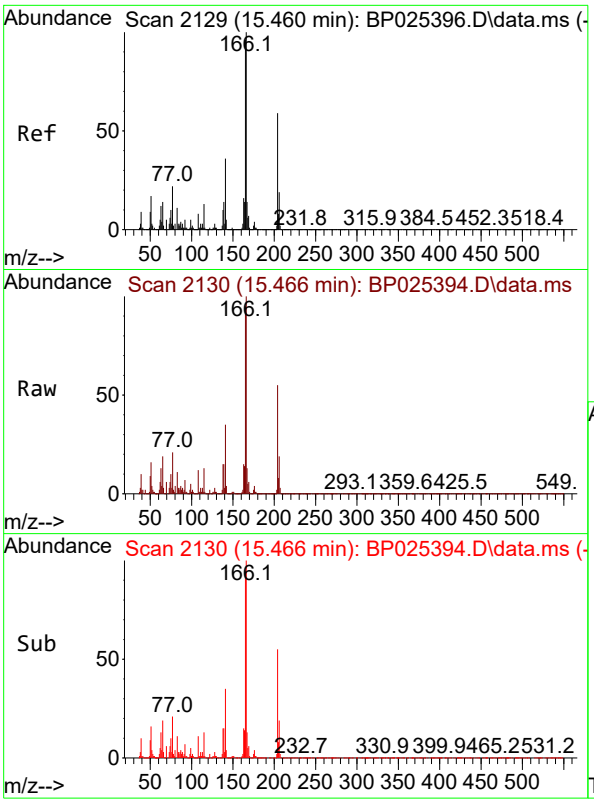


#60
Diethylphthalate
Concen: 9.909 ng
RT: 15.242 min Scan# 2092
Delta R.T. 0.006 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:149 Resp: 282526

Ion	Ratio	Lower	Upper
149	100		
177	22.7	17.3	25.9
150	12.8	10.3	15.5

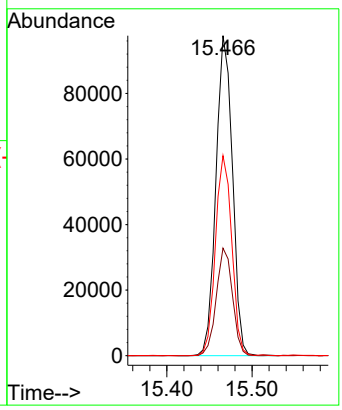




#61
4-Chlorophenyl-phenylether
Concen: 10.044 ng
RT: 15.466 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:204 Resp: 13113

Ion	Ratio	Lower	Upper
204	100		
206	33.6	25.8	38.8
141	62.5	49.4	74.2



Instrument :
BNA_P
ClientSampleId :
SSTDICC010

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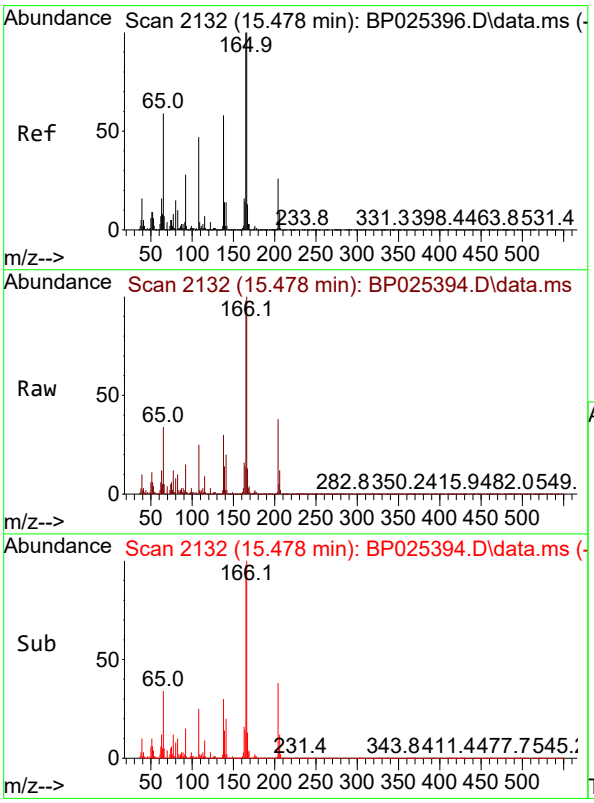
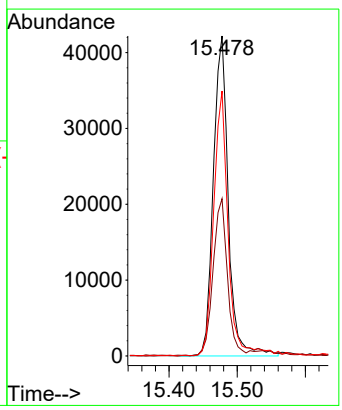
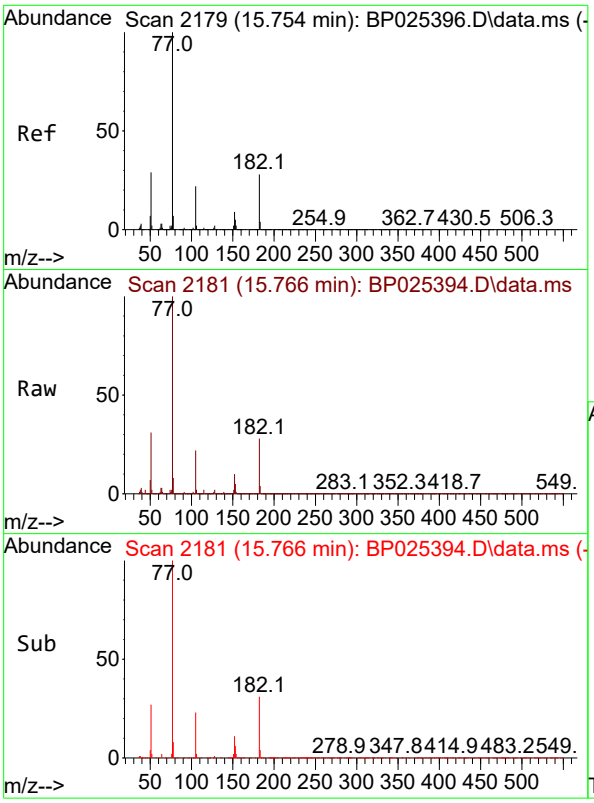


#62
4-Nitroaniline
Concen: 9.437 ng
RT: 15.478 min Scan# 2132
Delta R.T. 0.000 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:138 Resp: 64375

Ion	Ratio	Lower	Upper
138	100		
92	49.1	29.1	69.1
108	82.8	61.5	101.5

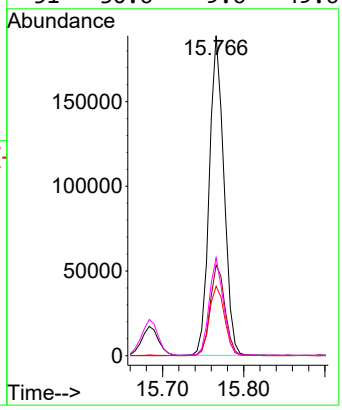




#63
Azobenzene
Concen: 9.620 ng
RT: 15.766 min Scan# 2
Delta R.T. 0.012 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion: 77 Resp: 23487

Ion	Ratio	Lower	Upper
77	100		
182	28.3	7.5	47.5
105	21.7	2.1	42.1
51	30.6	9.6	49.6



Instrument :
BNA_P
ClientSampleId :
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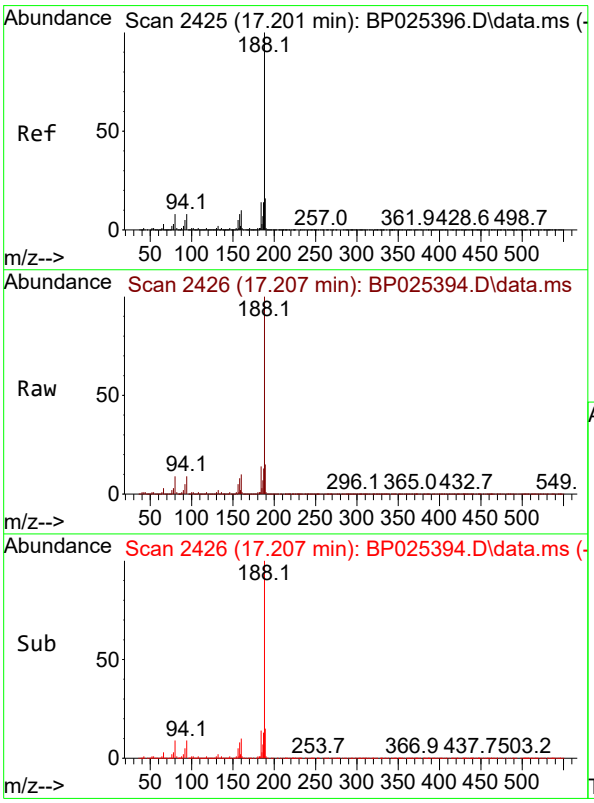
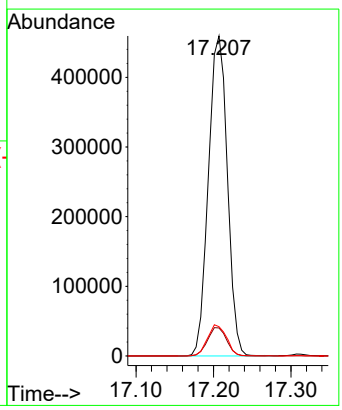
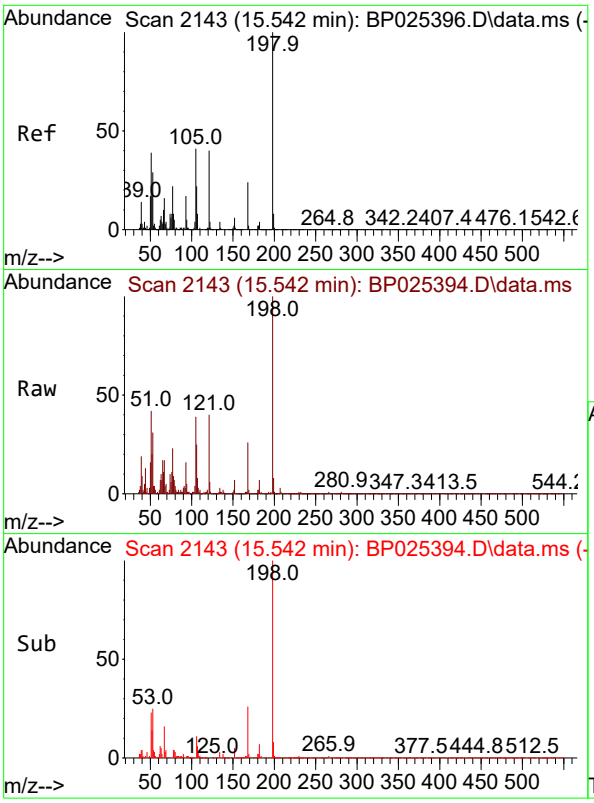


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.207 min Scan# 2426
Delta R.T. 0.006 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:188 Resp: 780940

Ion	Ratio	Lower	Upper
188	100		
94	8.7	6.6	10.0
80	9.1	6.7	10.1





#65
4,6-Dinitro-2-methylphenol
Concen: 7.679 ng
RT: 15.542 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:198 Resp: 3738

Ion	Ratio	Lower	Upper
198	100		
51	42.0	19.6	59.6
105	39.4	20.9	60.9

Instrument :
BNA_P
ClientSampleId :
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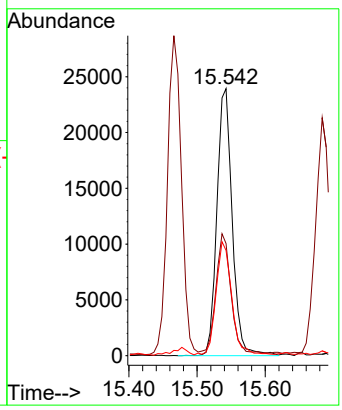
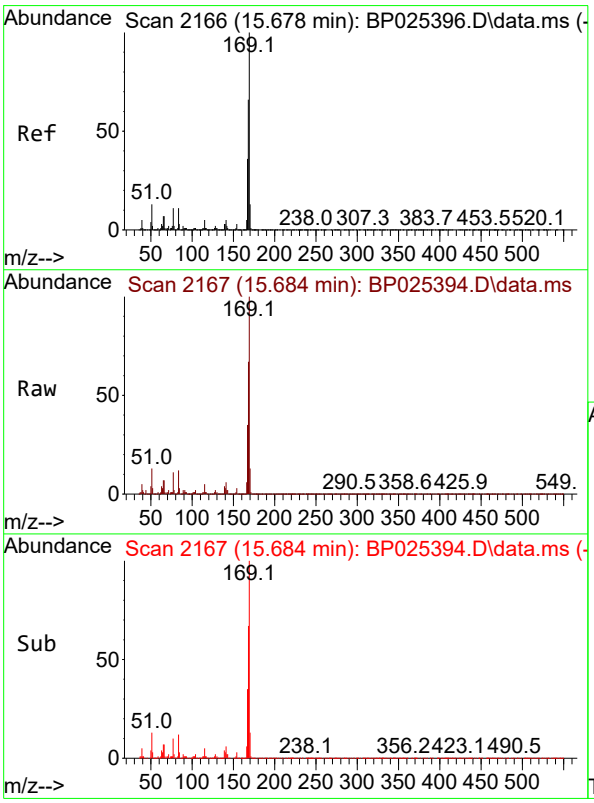
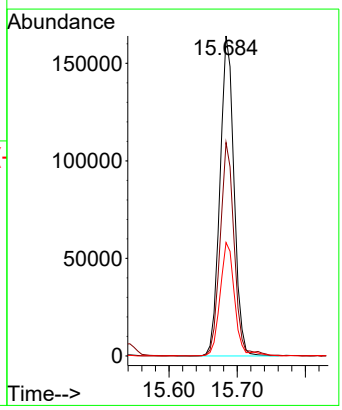


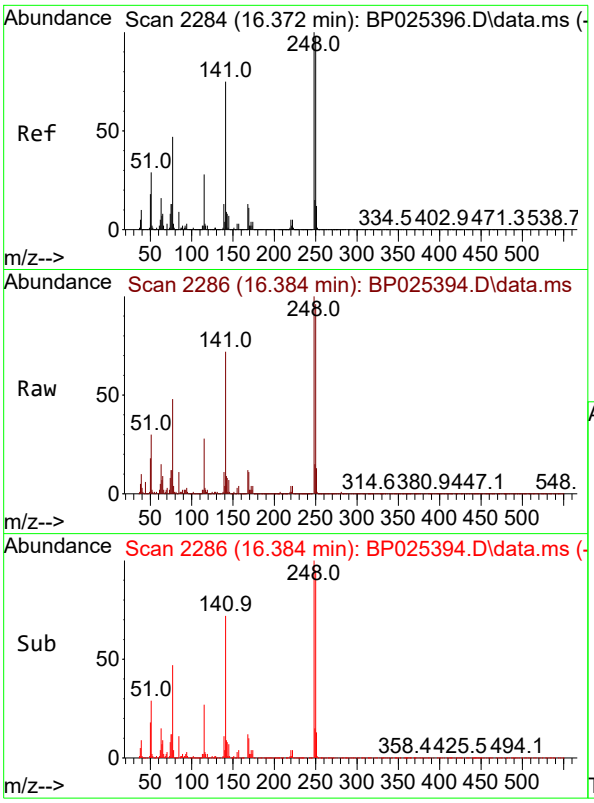


#66
n-Nitrosodiphenylamine
Concen: 9.883 ng
RT: 15.684 min Scan# 2167
Delta R.T. 0.006 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:169 Resp: 235344

Ion	Ratio	Lower	Upper
169	100		
168	66.7	53.2	79.8
167	35.5	28.7	43.1

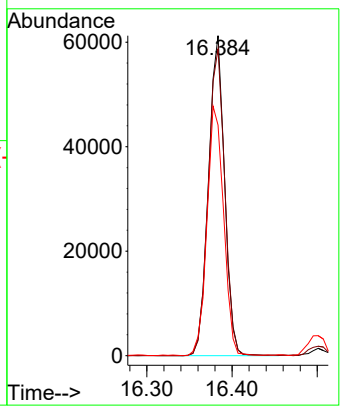




#67
4-Bromophenyl-phenylether
Concen: 9.358 ng
RT: 16.384 min Scan# 2
Delta R.T. 0.012 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:248 Resp: 8037

Ion	Ratio	Lower	Upper
248	100		
250	95.9	78.2	117.2
141	72.1	59.6	89.4



Instrument :
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ClientSampleId :
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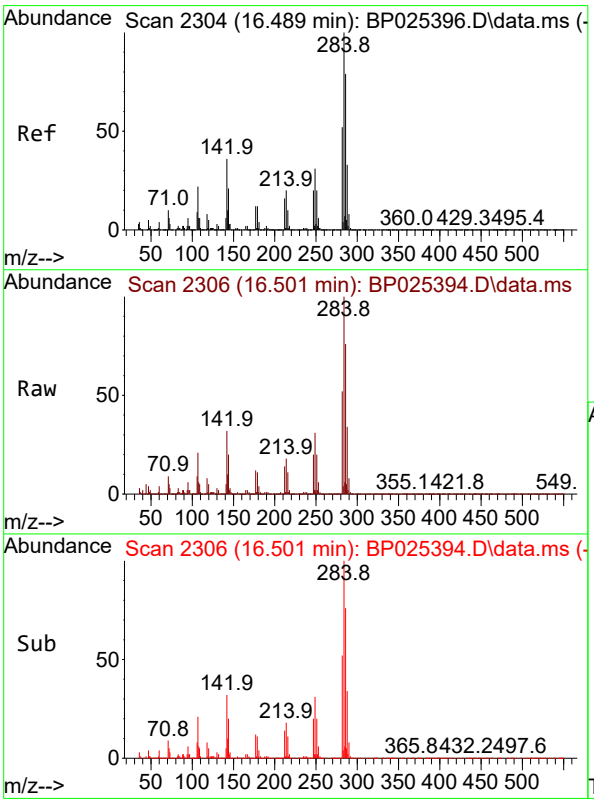
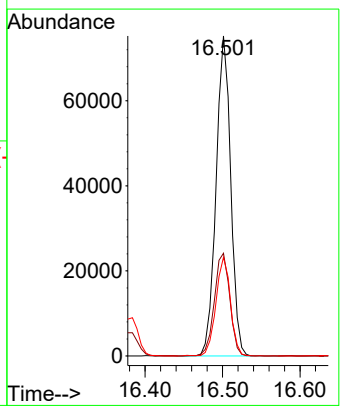
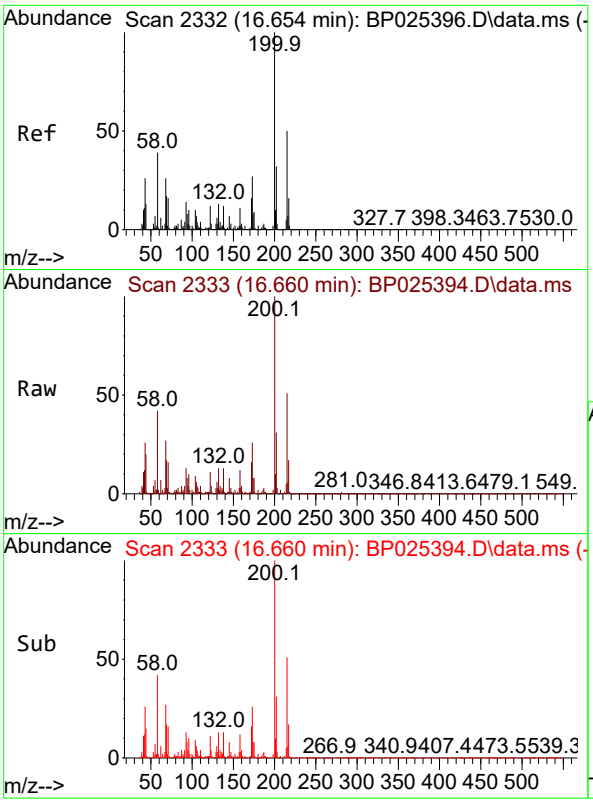


#68
Hexachlorobenzene
Concen: 9.905 ng
RT: 16.501 min Scan# 2306
Delta R.T. 0.012 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:284 Resp: 98614

Ion	Ratio	Lower	Upper
284	100		
142	32.1	29.1	43.7
249	30.8	25.0	37.4

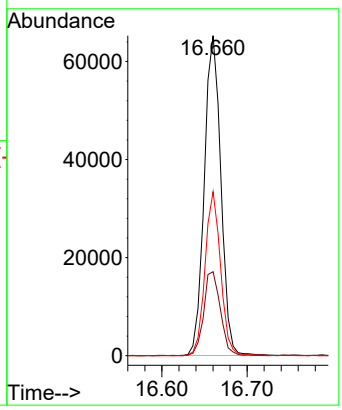




#69
Atrazine
Concen: 9.894 ng
RT: 16.660 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:200 Resp: 8824

Ion	Ratio	Lower	Upper
200	100		
173	26.2	6.7	46.7
215	51.3	29.7	69.7



Instrument :
BNA_P
ClientSampleId :
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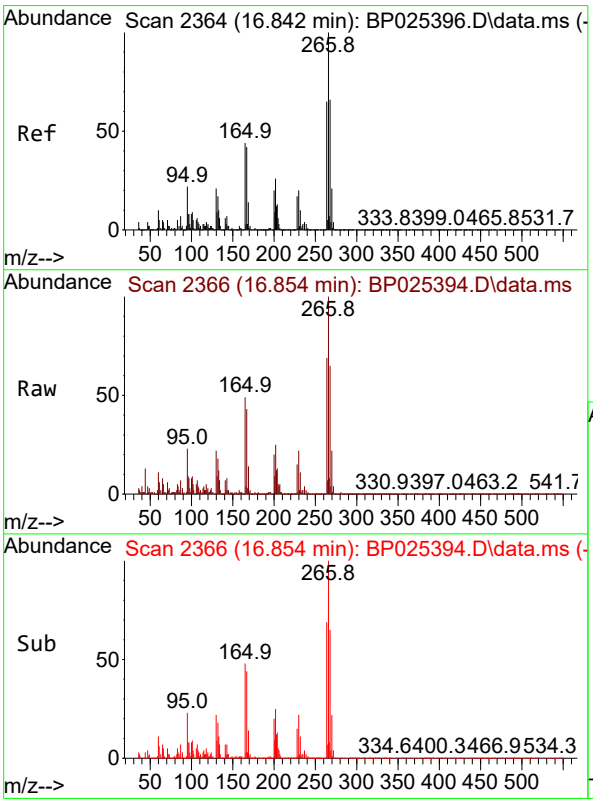
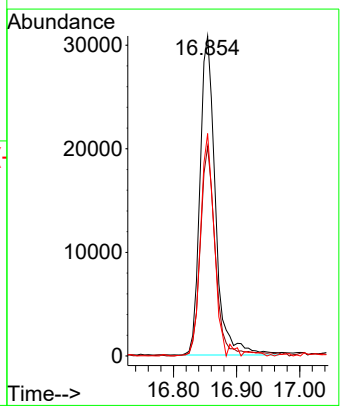
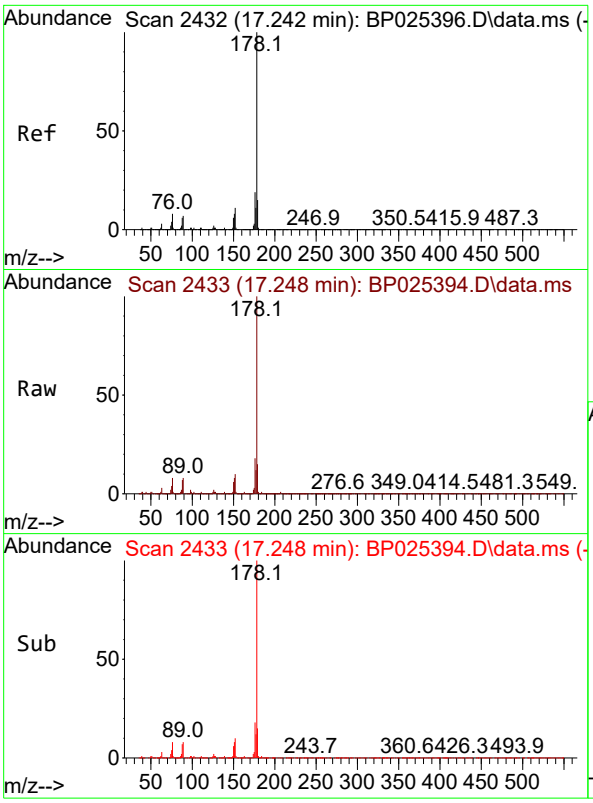


#70
Pentachlorophenol
Concen: 8.360 ng
RT: 16.854 min Scan# 2366
Delta R.T. 0.012 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:266 Resp: 52539

Ion	Ratio	Lower	Upper
266	100		
268	65.4	52.6	79.0
264	69.5	52.0	78.0

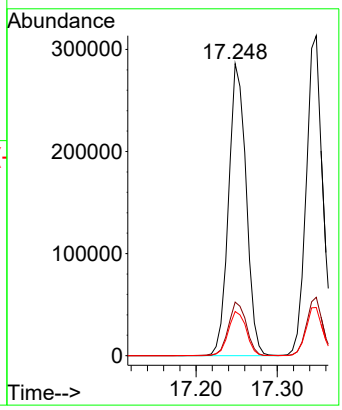




#71
Phenanthrene
Concen: 10.018 ng
RT: 17.248 min Scan# 24
Delta R.T. 0.006 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:178 Resp: 42975

Ion	Ratio	Lower	Upper
178	100		
176	18.4	15.5	23.3
179	15.1	12.2	18.4



Instrument :
BNA_P
ClientSampleId :
SSTDICC010

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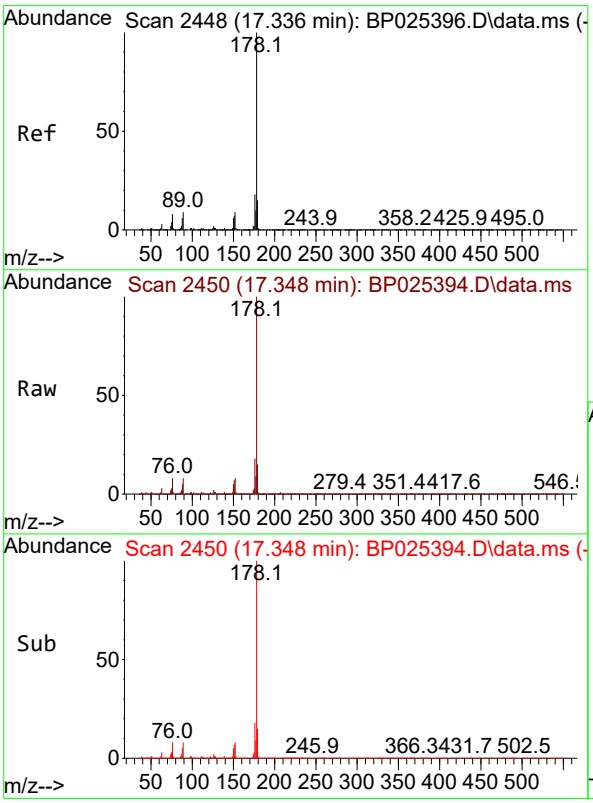
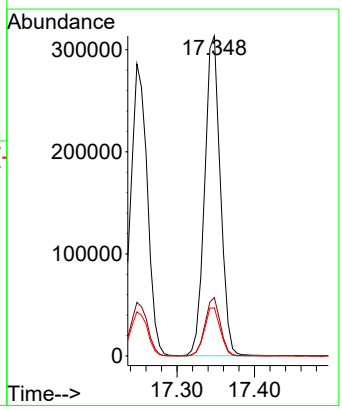
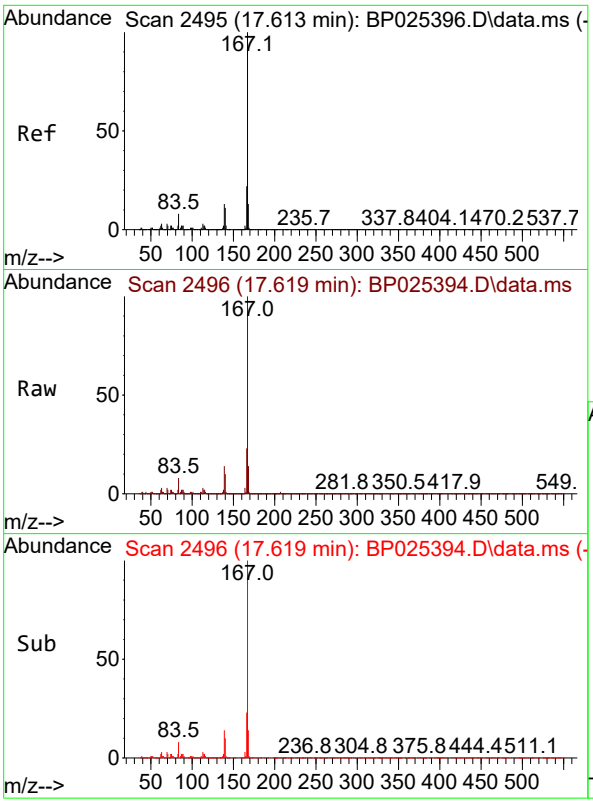


#72
Anthracene
Concen: 10.020 ng
RT: 17.348 min Scan# 2450
Delta R.T. 0.012 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:178 Resp: 438953

Ion	Ratio	Lower	Upper
178	100		
176	18.3	14.7	22.1
179	15.1	12.2	18.2

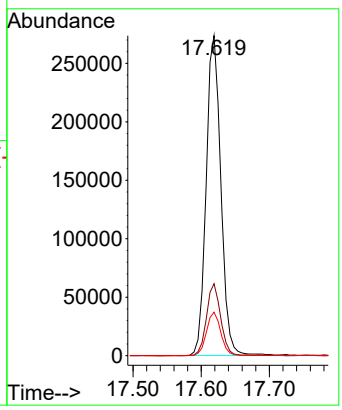




#73
Carbazole
Concen: 9.954 ng
RT: 17.619 min Scan# 24
Delta R.T. 0.006 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:167 Resp: 41072

Ion	Ratio	Lower	Upper
167	100		
166	22.5	17.5	26.3
139	13.6	10.6	16.0



Instrument :
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ClientSampleId :
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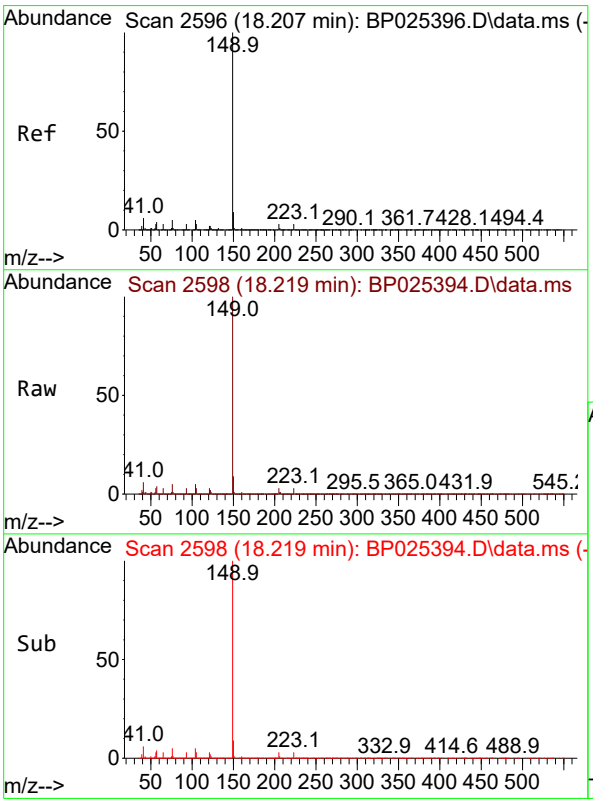
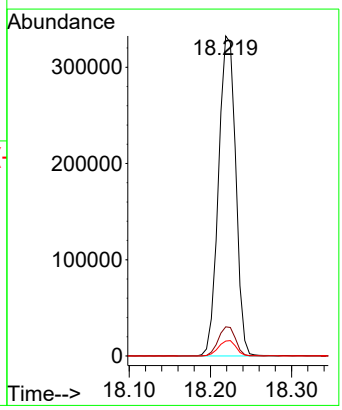
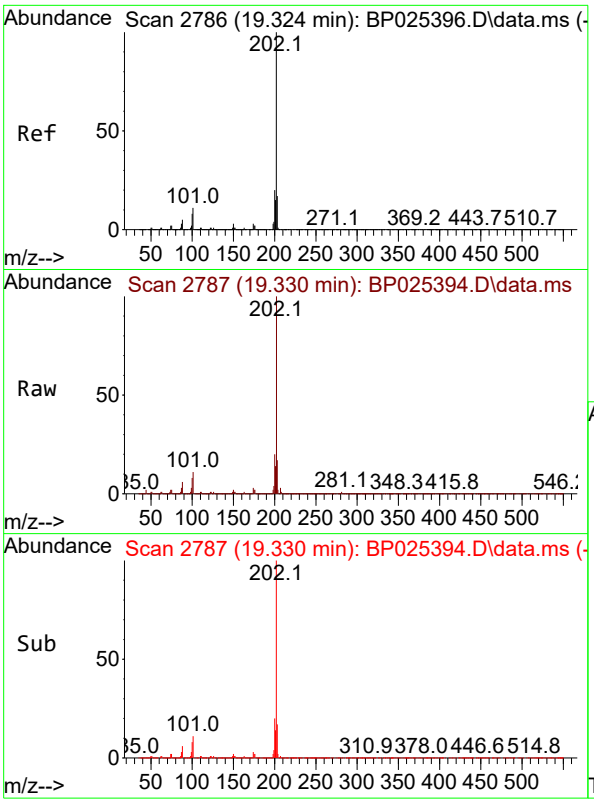


#74
Di-n-butylphthalate
Concen: 9.656 ng
RT: 18.219 min Scan# 2598
Delta R.T. 0.012 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:149 Resp: 490232

Ion	Ratio	Lower	Upper
149	100		
150	9.1	7.4	11.0
104	4.7	4.2	6.2

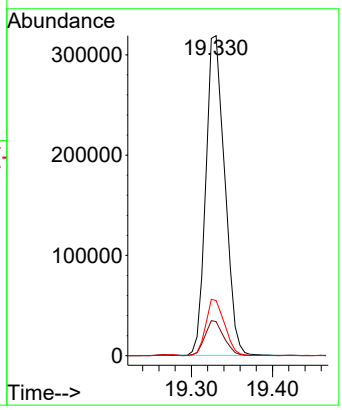




#75
Fluoranthene
Concen: 10.094 ng
RT: 19.330 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:202 Resp: 51652

Ion	Ratio	Lower	Upper
202	100		
101	10.6	0.0	31.1
203	17.2	0.0	37.3



Instrument :
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ClientSampleId :
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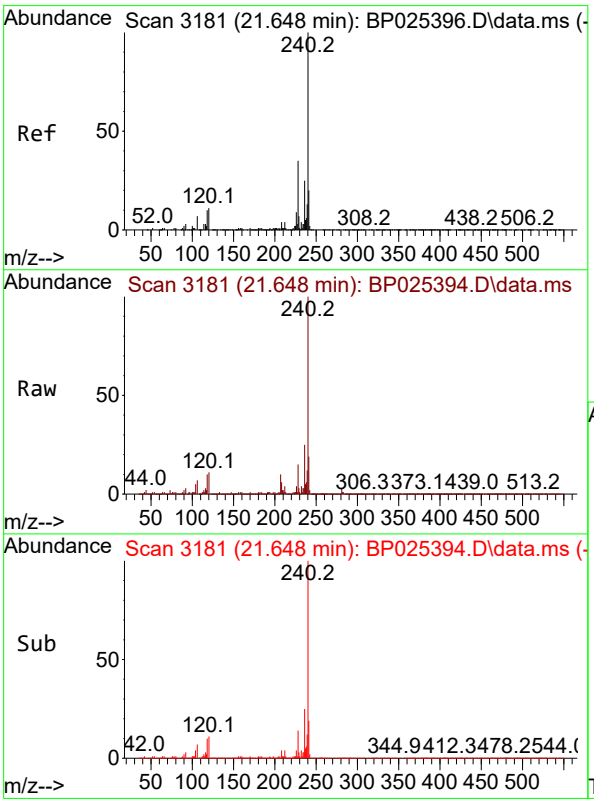
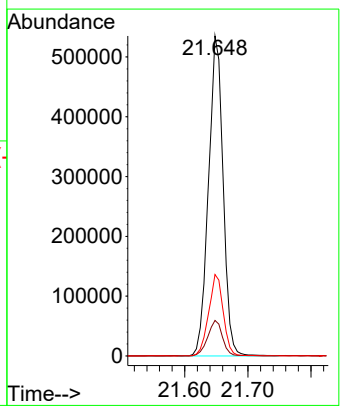
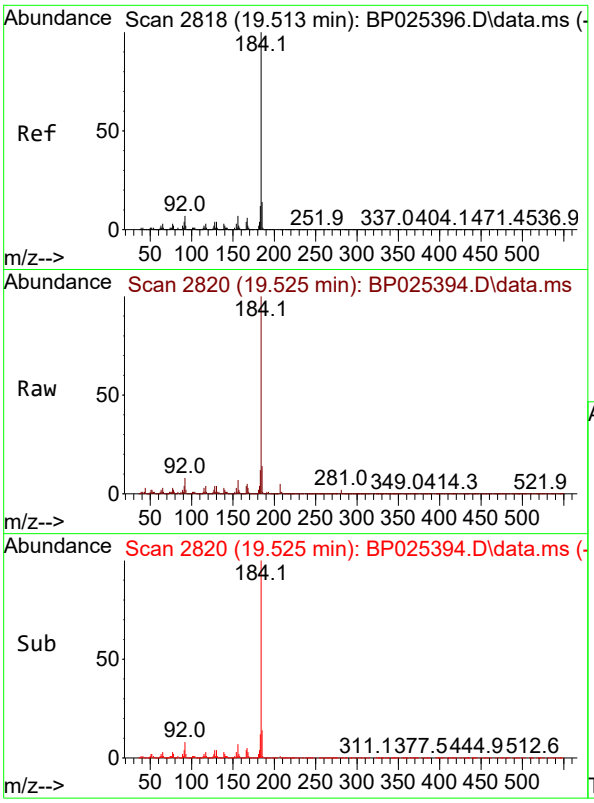


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.648 min Scan# 3181
Delta R.T. 0.000 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:240 Resp: 860386

Ion	Ratio	Lower	Upper
240	100		
120	11.1	8.9	13.3
236	25.5	19.8	29.8

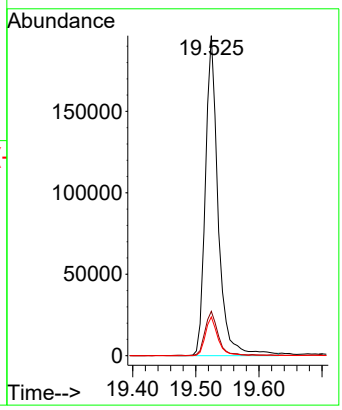




#77
Benzidine
Concen: 9.406 ng
RT: 19.525 min Scan# 2
Delta R.T. 0.012 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:184 Resp: 27619

Ion	Ratio	Lower	Upper
184	100		
185	13.8	11.5	17.3
183	12.1	9.4	14.2



Instrument :
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ClientSampleId :
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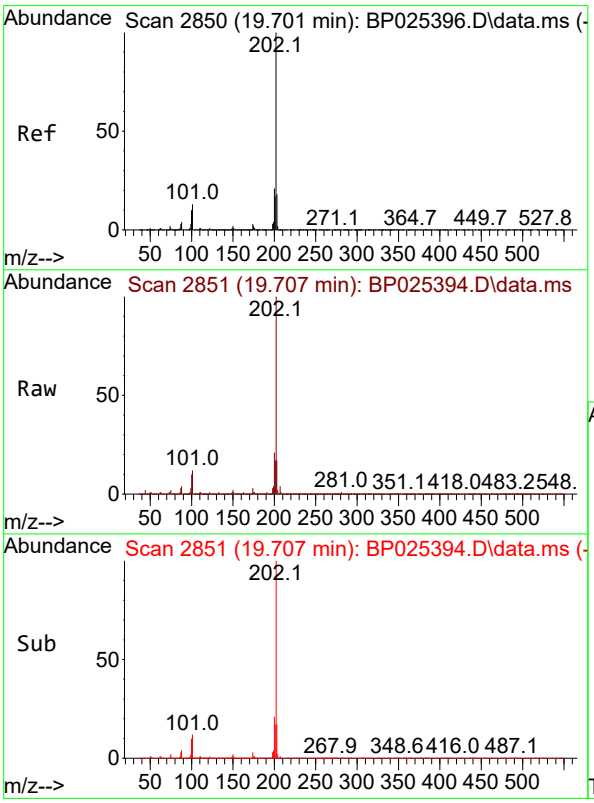
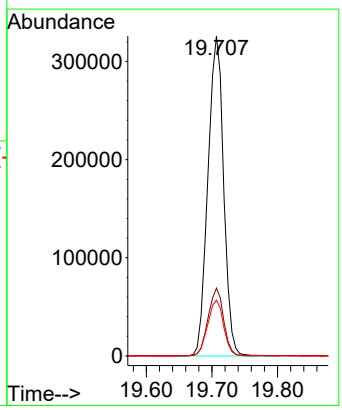
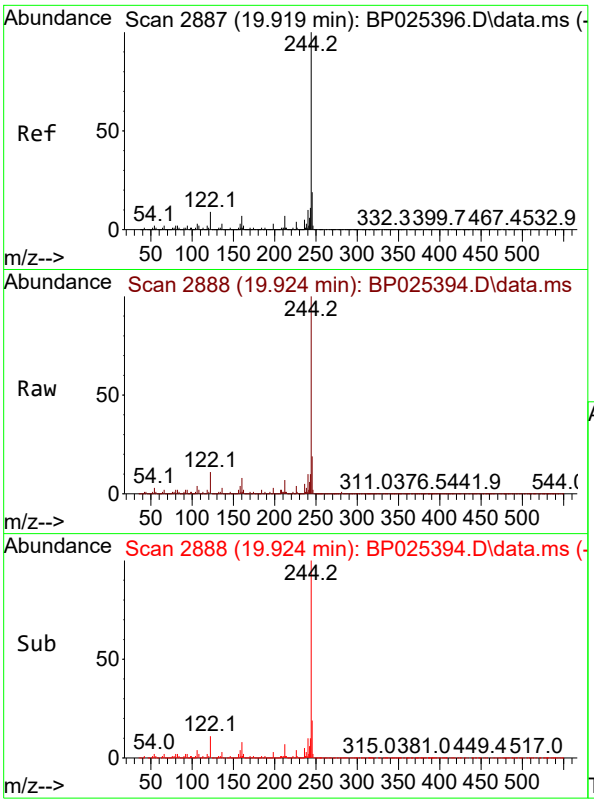


#78
Pyrene
Concen: 9.704 ng
RT: 19.707 min Scan# 2851
Delta R.T. 0.006 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:202 Resp: 542670

Ion	Ratio	Lower	Upper
202	100		
200	21.2	16.9	25.3
203	17.5	14.2	21.2

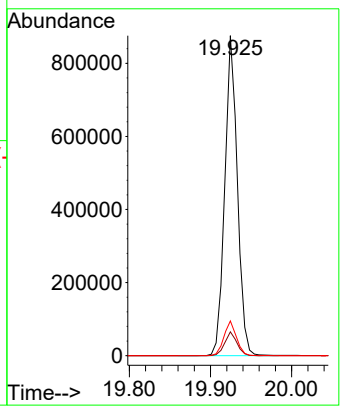




#79
Terphenyl-d14
Concen: 20.125 ng
RT: 19.924 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:244 Resp: 94642

Ion	Ratio	Lower	Upper
244	100		
212	7.4	5.8	8.6
122	10.9	7.4	11.2



Instrument :
BNA_P
ClientSampleId :
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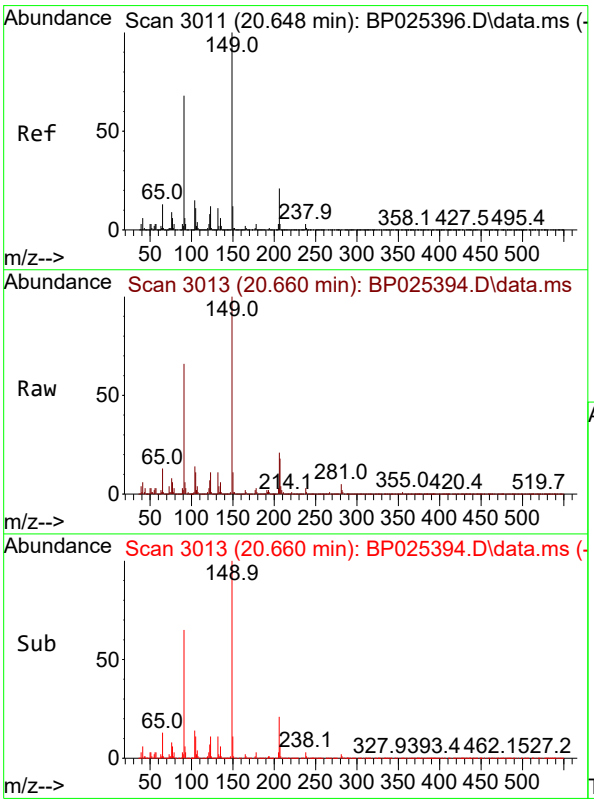
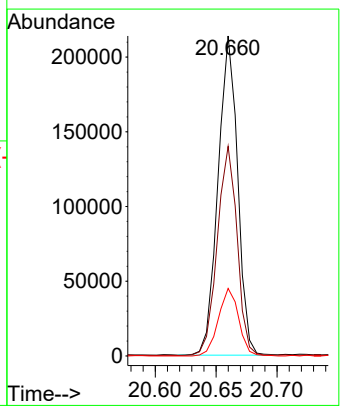
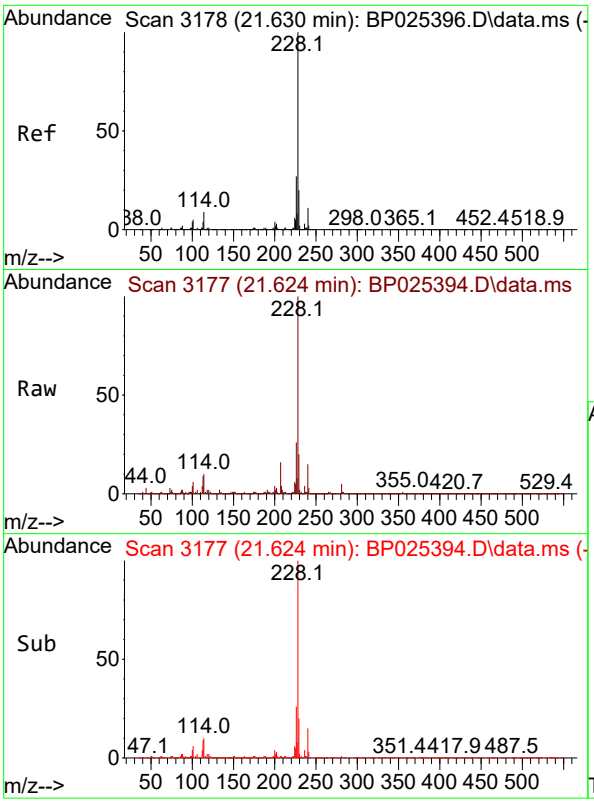


#80
Butylbenzylphthalate
Concen: 9.446 ng
RT: 20.660 min Scan# 3013
Delta R.T. 0.012 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:149 Resp: 239416

Ion	Ratio	Lower	Upper
149	100		
91	65.5	54.2	81.2
206	21.1	16.6	24.8

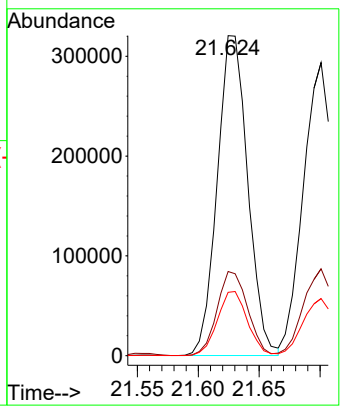




#81
Benzo(a)anthracene
Concen: 9.874 ng
RT: 21.624 min Scan# 3
Delta R.T. -0.006 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:228 Resp: 56027

Ion	Ratio	Lower	Upper
228	100		
226	26.3	21.7	32.5
229	19.8	15.6	23.4



Instrument :
BNA_P
ClientSampleId :
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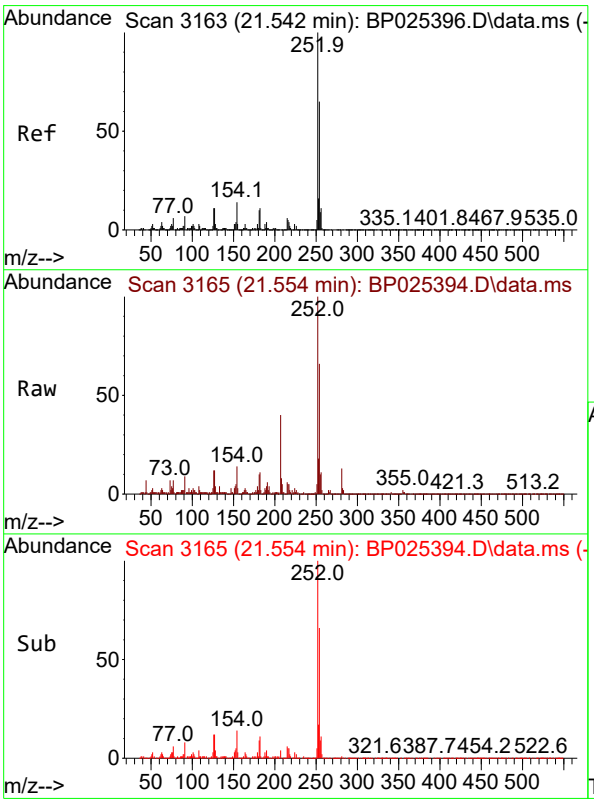
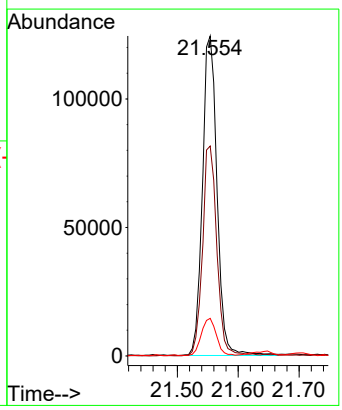
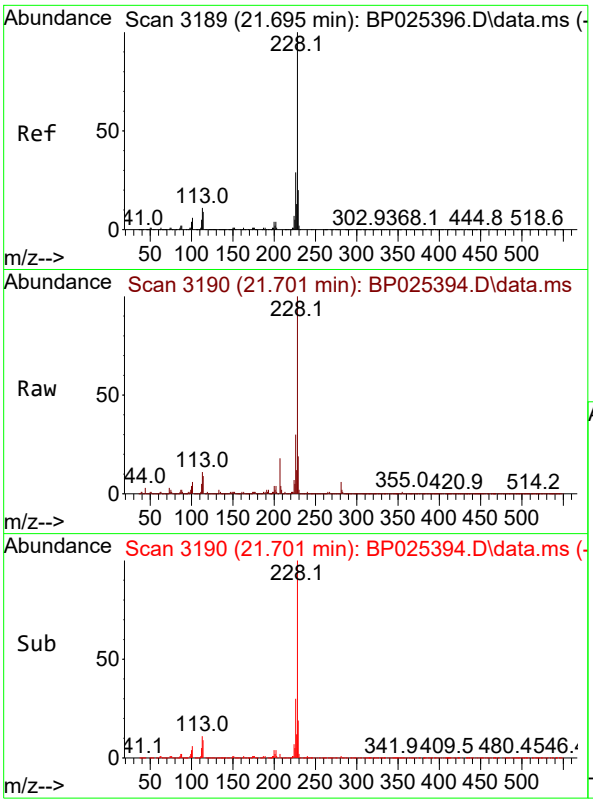


#82
3,3'-Dichlorobenzidine
Concen: 9.686 ng
RT: 21.554 min Scan# 3165
Delta R.T. 0.012 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:252 Resp: 207153

Ion	Ratio	Lower	Upper
252	100		
254	65.6	51.8	77.6
126	11.7	9.1	13.7

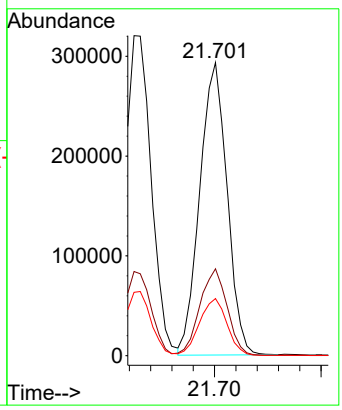




#83
Chrysene
Concen: 9.831 ng
RT: 21.701 min Scan# 3
Delta R.T. 0.006 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:228 Resp: 52241

Ion	Ratio	Lower	Upper
228	100		
226	29.6	23.2	34.8
229	19.5	15.6	23.4



Instrument :
BNA_P
ClientSampleId :
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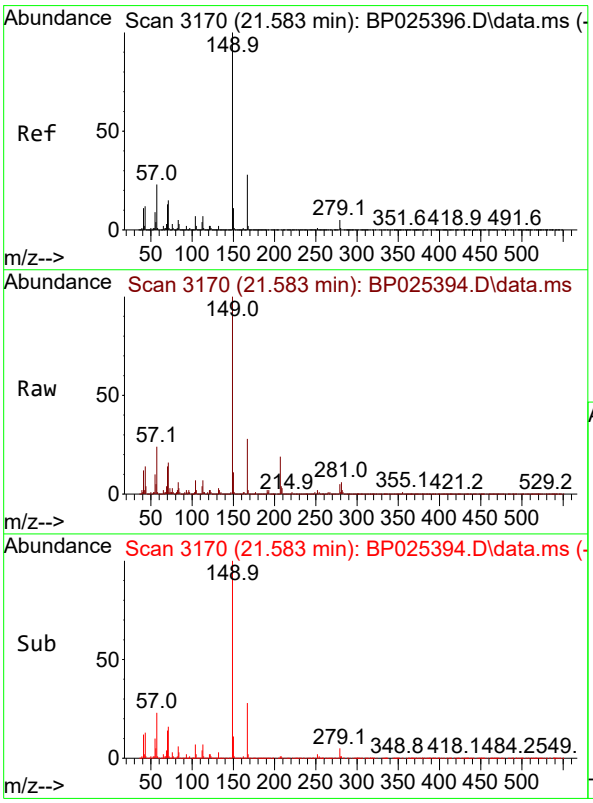
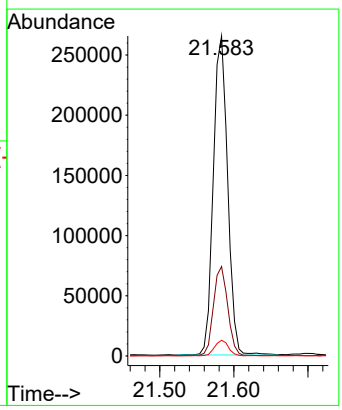
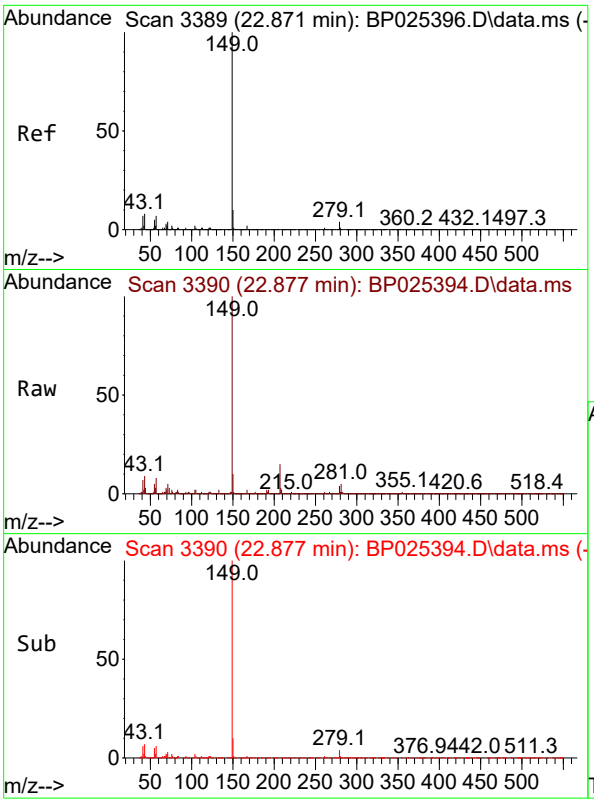


#84
Bis(2-ethylhexyl)phthalate
Concen: 9.529 ng
RT: 21.583 min Scan# 3170
Delta R.T. 0.000 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:149 Resp: 355530

Ion	Ratio	Lower	Upper
149	100		
167	27.9	22.1	33.1
279	4.9	3.8	5.6

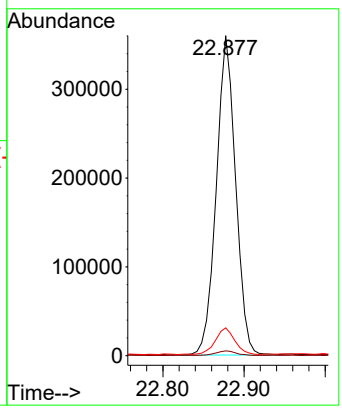




#85
Di-n-octyl phthalate
Concen: 9.259 ng
RT: 22.877 min Scan# 3
Delta R.T. 0.006 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:149 Resp: 59419

Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.3	1.9
43	8.4	6.3	9.5



Instrument :
BNA_P
ClientSampleId :
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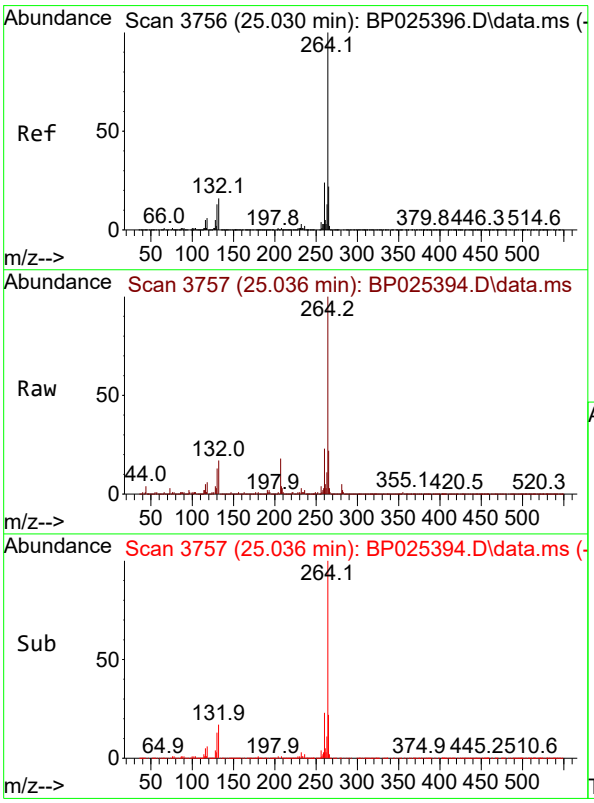
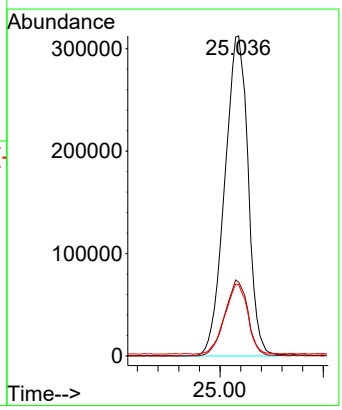
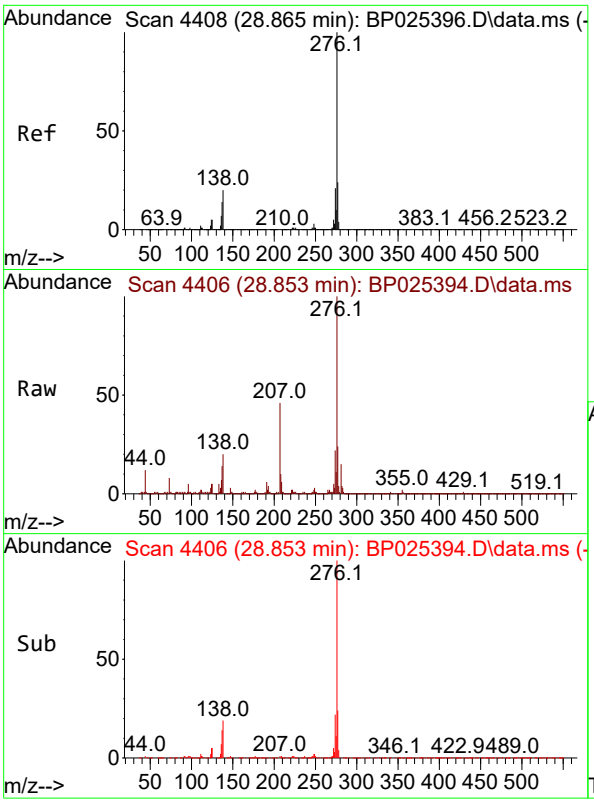


#86
Perylene-d12
Concen: 20.000 ng
RT: 25.036 min Scan# 3757
Delta R.T. 0.006 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:264 Resp: 980670

Ion	Ratio	Lower	Upper
264	100		
260	23.0	19.3	28.9
265	22.3	17.4	26.0

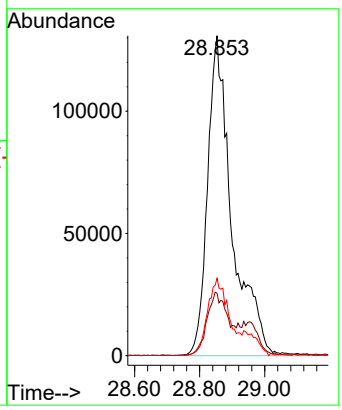




#87
Indeno(1,2,3-cd)pyrene
Concen: 9.438 ng m
RT: 28.853 min Scan# 4
Delta R.T. -0.012 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:276 Resp: 67898

Ion	Ratio	Lower	Upper
276	100		
138	16.7	12.9	19.3
277	21.1	17.0	25.6



Instrument :
BNA_P
ClientSampleId :
SSTDICC010

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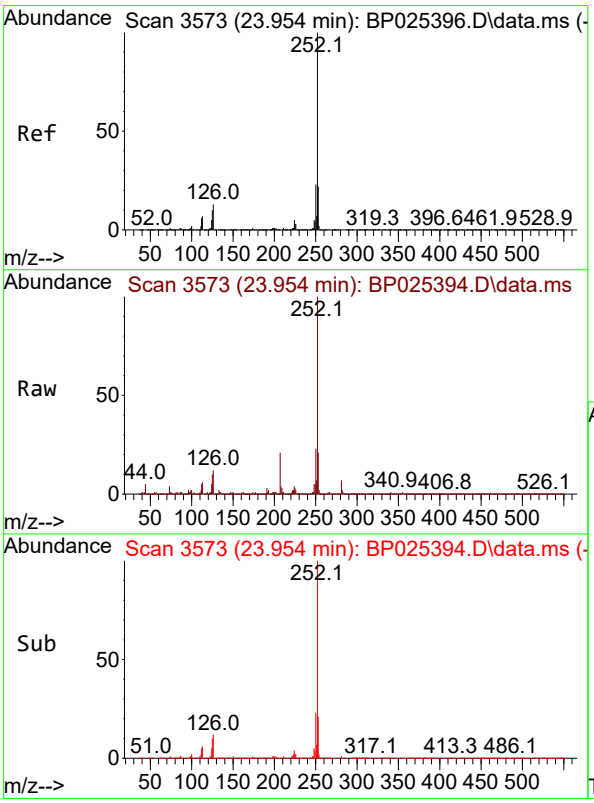
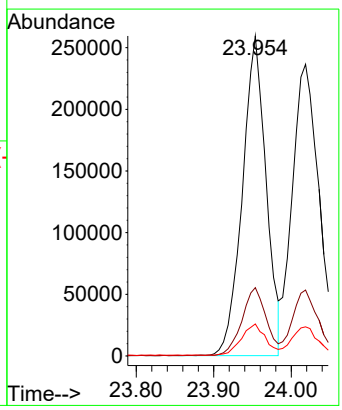
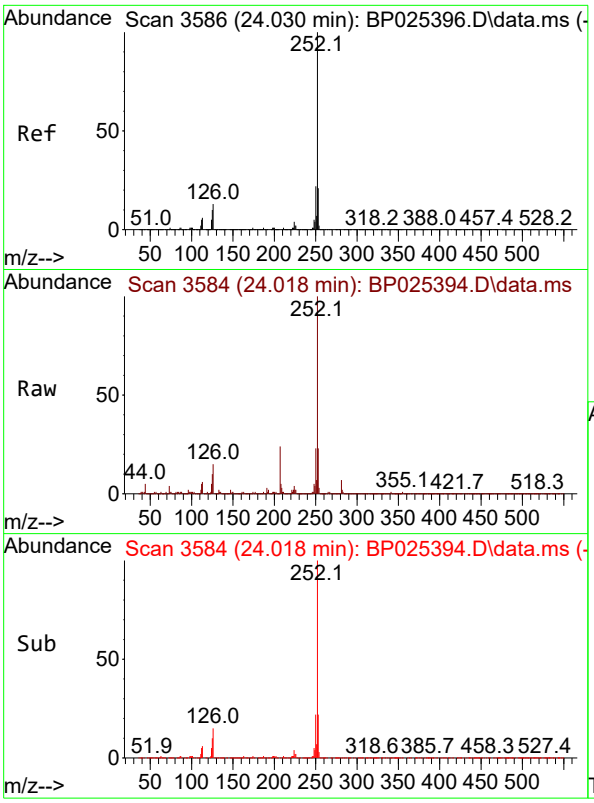


#88
Benzo(b)fluoranthene
Concen: 9.549 ng
RT: 23.954 min Scan# 3573
Delta R.T. 0.000 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:252 Resp: 552191

Ion	Ratio	Lower	Upper
252	100		
253	21.4	17.7	26.5
125	10.0	7.9	11.9

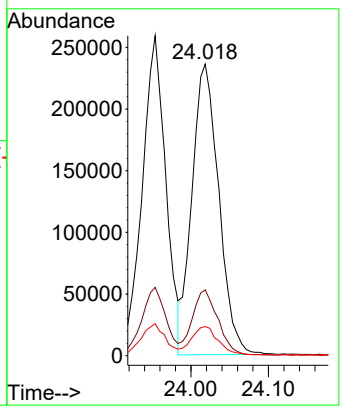




#89
Benzo(k)fluoranthene
Concen: 9.800 ng
RT: 24.018 min Scan# 3
Delta R.T. -0.012 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:252 Resp: 56708

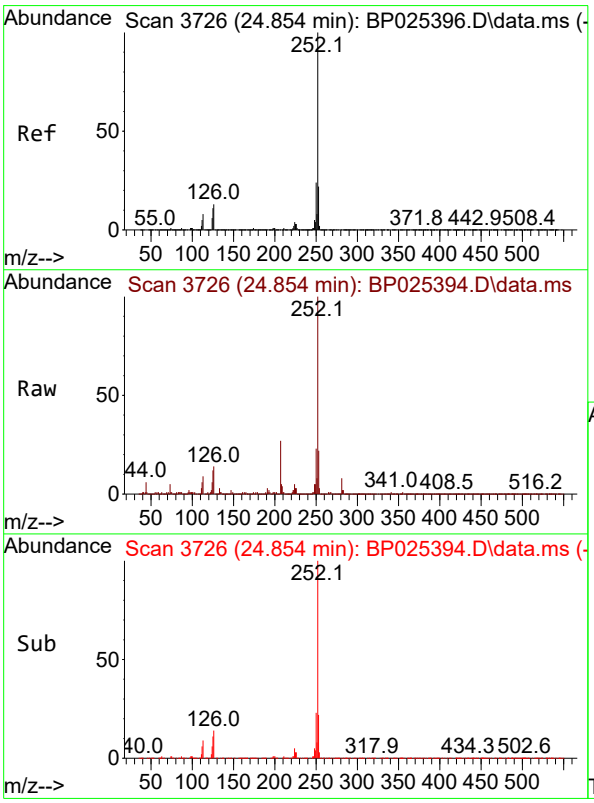
Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.1	25.7
125	10.0	7.8	11.6



Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

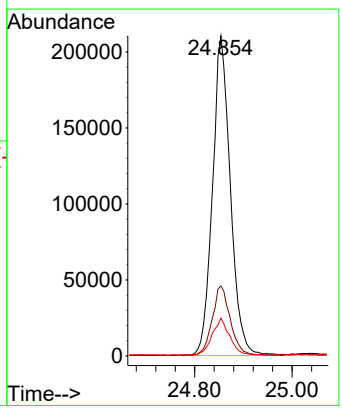
Reviewed By :Rahul Chavli 08/15/2025
Supervised By :Jagrut Upadhyay 08/15/2025

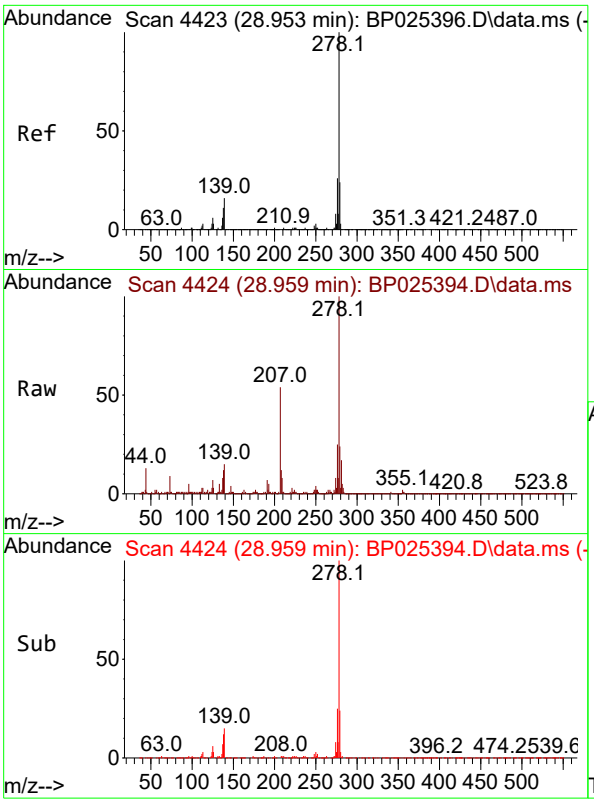


#90
Benzo(a)pyrene
Concen: 9.519 ng
RT: 24.854 min Scan# 3726
Delta R.T. 0.000 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:252 Resp: 535820

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.5	26.3
125	11.8	8.7	13.1

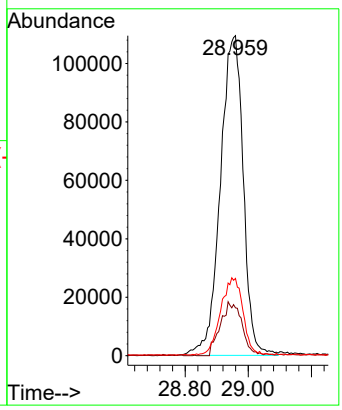




#91
Dibenzo(a,h)anthracene
Concen: 9.387 ng
RT: 28.959 min Scan# 4
Delta R.T. 0.006 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:278 Resp: 55169

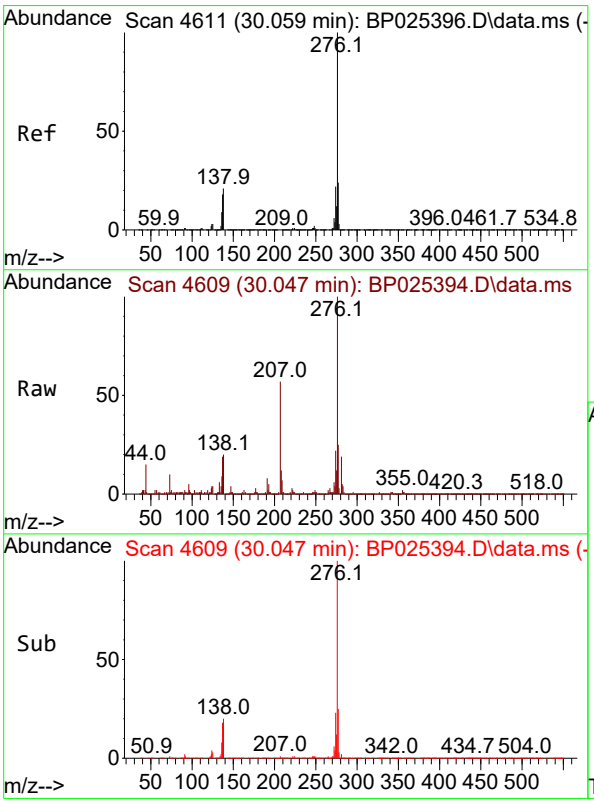
Ion	Ratio	Lower	Upper
278	100		
139	15.0	13.0	19.4
279	24.2	19.4	29.2



Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

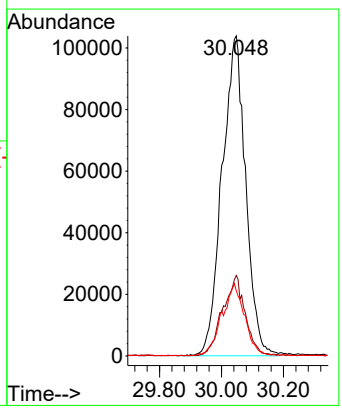
Reviewed By :Rahul Chavli 08/15/2025
Supervised By :Jagrut Upadhyay 08/15/2025



#92
Benzo(g,h,i)perylene
Concen: 9.489 ng
RT: 30.047 min Scan# 4609
Delta R.T. -0.012 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:276 Resp: 548117

Ion	Ratio	Lower	Upper
276	100		
277	25.1	19.4	29.0
138	20.4	16.7	25.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081425\
Data File : BP025395.D
Acq On : 14 Aug 2025 14:38
Operator : CG/JU
Sample : SSTDICC020
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 08/15/2025
Supervised By :Jagrut Upadhyay 08/15/2025

Quant Time: Aug 14 17:54:49 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 17:44:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.790	152	141721	20.000	ng		0.00
21) Naphthalene-d8	10.560	136	603797	20.000	ng		0.00
39) Acenaphthene-d10	14.413	164	399034	20.000	ng		0.00
64) Phenanthrene-d10	17.213	188	785736	20.000	ng		0.01
76) Chrysene-d12	21.654	240	852065	20.000	ng		0.00
86) Perylene-d12	25.036	264	958651	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.408	112	338568	39.674	ng		0.00
7) Phenol-d6	6.966	99	434388	39.702	ng		0.00
23) Nitrobenzene-d5	8.931	82	473937	39.706	ng		0.00
42) 2,4,6-Tribromophenol	15.925	330	212968	39.651	ng		0.01
45) 2-Fluorobiphenyl	13.025	172	1203064	41.205	ng		0.00
79) Terphenyl-d14	19.930	244	1869951	40.152	ng		0.01
Target Compounds							Qvalue
2) 1,4-Dioxane	3.331	88	67276	20.126	ng		99
3) Pyridine	3.731	79	177948	19.450	ng		98
4) n-Nitrosodimethylamine	3.637	42	72627	19.255	ng	#	96
6) Aniline	7.125	93	287645	19.513	ng		99
8) 2-Chlorophenol	7.366	128	190858	19.819	ng		99
9) Benzaldehyde	6.937	77	135464	17.672	ng		99
10) Phenol	6.990	94	228580	19.910	ng		98
11) bis(2-Chloroethyl)ether	7.219	93	180390	20.159	ng		98
12) 1,3-Dichlorobenzene	7.684	146	213023	20.061	ng		99
13) 1,4-Dichlorobenzene	7.825	146	216400	19.938	ng		99
14) 1,2-Dichlorobenzene	8.143	146	211243	20.106	ng		99
15) Benzyl Alcohol	8.019	79	170736	19.640	ng		98
16) 2,2'-oxybis(1-Chloropr...	8.307	45	242616	20.240	ng		99
17) 2-Methylphenol	8.225	107	159119	19.956	ng		98
18) Hexachloroethane	8.866	117	78205	19.597	ng		94
19) n-Nitroso-di-n-propyla...	8.584	70	149715	20.633	ng		97
20) 3+4-Methylphenols	8.543	107	217240	19.655	ng		98
22) Acetophenone	8.596	105	305812	20.196	ng		99
24) Nitrobenzene	8.972	77	210234	19.708	ng		100
25) Isophorone	9.496	82	422370	19.995	ng		99
26) 2-Nitrophenol	9.678	139	106805	19.509	ng		98
27) 2,4-Dimethylphenol	9.743	122	178534	18.963	ng		99
28) bis(2-Chloroethoxy)met...	9.972	93	256656	20.100	ng		99
29) 2,4-Dichlorophenol	10.207	162	186076	19.896	ng		99
30) 1,2,4-Trichlorobenzene	10.425	180	201995	19.702	ng		98
31) Naphthalene	10.613	128	625899	19.944	ng		99
32) Benzoic acid	9.843	122	124836m	18.004	ng		
33) 4-Chloroaniline	10.713	127	270158	19.489	ng		99
34) Hexachlorobutadiene	10.901	225	127593	19.983	ng		99
35) Caprolactam	11.484	113	66168	19.294	ng		95
36) 4-Chloro-3-methylphenol	11.837	107	209817	19.551	ng		97
37) 2-Methylnaphthalene	12.219	142	409613	20.057	ng		99
38) 1-Methylnaphthalene	12.443	142	430666	19.829	ng		100
40) 1,2,4,5-Tetrachloroben...	12.590	216	233523	20.263	ng		99
41) Hexachlorocyclopentadiene	12.572	237	124759	17.922	ng		98
43) 2,4,6-Trichlorophenol	12.831	196	152031	19.540	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081425\
Data File : BP025395.D
Acq On : 14 Aug 2025 14:38
Operator : CG/JU
Sample : SSTDICC020
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 08/15/2025
Supervised By :Jagrut Upadhyay 08/15/2025

Quant Time: Aug 14 17:54:49 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 17:44:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.901	196	169197	19.842	ng	98
46) 1,1'-Biphenyl	13.237	154	581464	20.064	ng	100
47) 2-Chloronaphthalene	13.272	162	456552	20.237	ng	98
48) 2-Nitroaniline	13.478	65	126433	19.233	ng	99
49) Acenaphthylene	14.137	152	737527	19.756	ng	99
50) Dimethylphthalate	13.866	163	573661	19.632	ng	100
51) 2,6-Dinitrotoluene	13.966	165	120693	19.597	ng	96
52) Acenaphthene	14.484	154	438852m	20.027	ng	
53) 3-Nitroaniline	14.301	138	134502	19.410	ng	97
54) 2,4-Dinitrophenol	14.519	184	55713	16.939	ng	98
55) Dibenzofuran	14.819	168	692966	20.002	ng	99
56) 4-Nitrophenol	14.619	139	105787	18.578	ng	98
57) 2,4-Dinitrotoluene	14.772	165	172020	19.576	ng	96
58) Fluorene	15.478	166	554647	20.289	ng	100
59) 2,3,4,6-Tetrachlorophenol	15.048	232	145926	19.381	ng	99
60) Diethylphthalate	15.248	149	584590	19.689	ng	99
61) 4-Chlorophenyl-phenyle...	15.472	204	270949	19.929	ng	98
62) 4-Nitroaniline	15.478	138	139202	19.595	ng	100
63) Azobenzene	15.766	77	508563	20.004	ng	100
65) 4,6-Dinitro-2-methylph...	15.548	198	88992	18.169	ng	97
66) n-Nitrosodiphenylamine	15.684	169	477080	19.911	ng	99
67) 4-Bromophenyl-phenylether	16.389	248	170738	19.758	ng	97
68) Hexachlorobenzene	16.495	284	199410	19.906	ng	99
69) Atrazine	16.666	200	179513	20.006	ng	99
70) Pentachlorophenol	16.848	266	120958	19.128	ng	99
71) Phenanthrene	17.254	178	872890	20.223	ng	99
72) Anthracene	17.342	178	890292	20.198	ng	100
73) Carbazole	17.625	167	843970	20.328	ng	99
74) Di-n-butylphthalate	18.219	149	1046709	20.491	ng	100
75) Fluoranthene	19.342	202	1058912	20.567	ng	99
77) Benzidine	19.525	184	546647	18.799	ng	99
78) Pyrene	19.713	202	1096965	19.807	ng	99
80) Butylbenzylphthalate	20.666	149	504019	20.081	ng	97
81) Benzo(a)anthracene	21.630	228	1118590	19.906	ng	100
82) 3,3'-Dichlorobenzidine	21.548	252	432075	20.399	ng	100
83) Chrysene	21.707	228	1063898	20.216	ng	99
84) Bis(2-ethylhexyl)phtha...	21.577	149	744704	20.155	ng	99
85) Di-n-octyl phthalate	22.871	149	1276798	20.091	ng	100
87) Indeno(1,2,3-cd)pyrene	28.865	276	1380331m	19.627	ng	
88) Benzo(b)fluoranthene	23.948	252	1122408	19.855	ng	100
89) Benzo(k)fluoranthene	24.018	252	1150366	20.336	ng	100
90) Benzo(a)pyrene	24.854	252	1102804	20.041	ng	100
91) Dibenzo(a,h)anthracene	28.965	278	1130209	19.672	ng	98
92) Benzo(g,h,i)perylene	30.053	276	1120307	19.840	ng	99

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

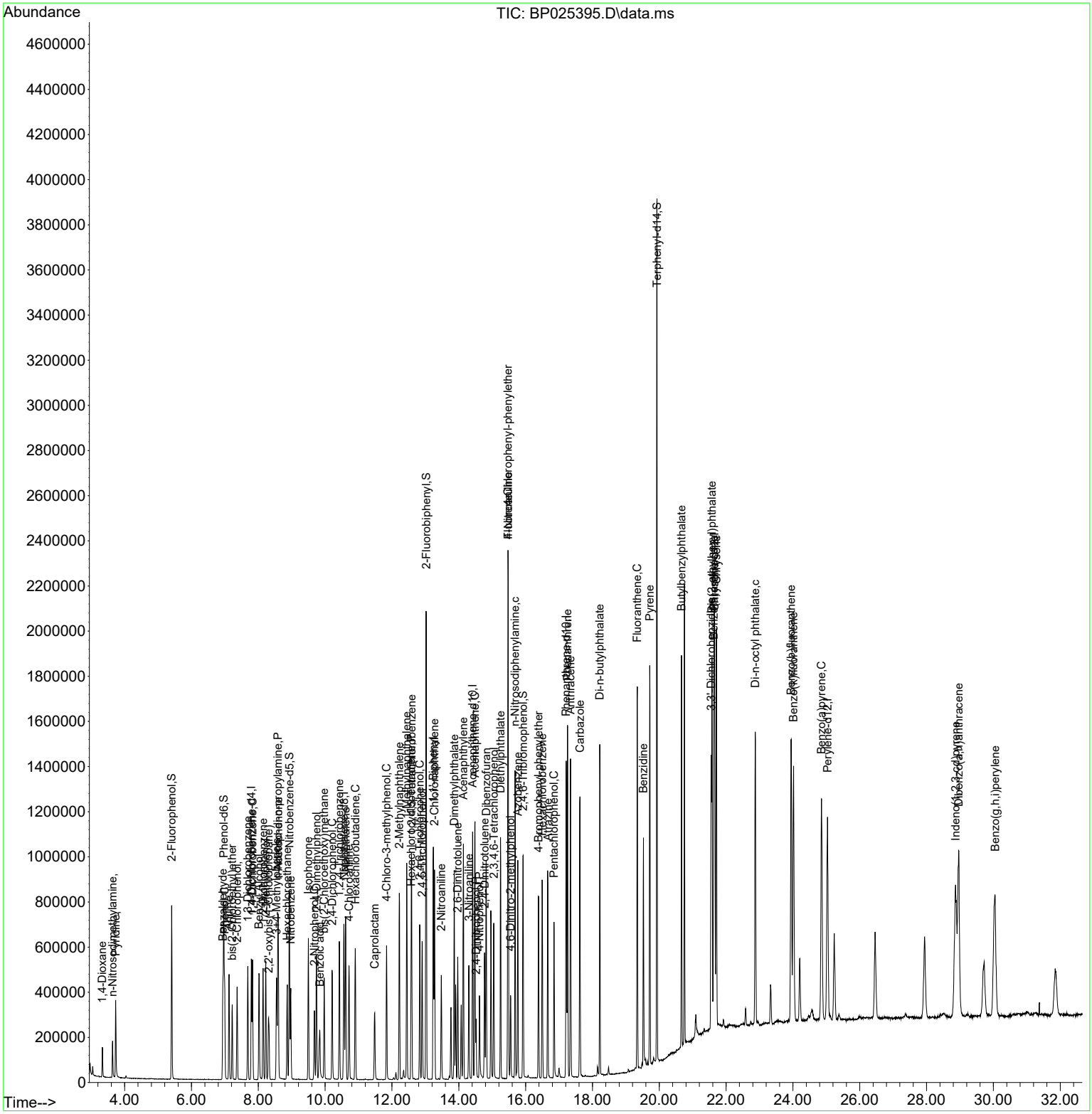
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081425\
Data File : BP025395.D
Acq On : 14 Aug 2025 14:38
Operator : CG/JU
Sample : SSTDICC020
Misc :
ALS Vial : 6 Sample Multiplier: 1

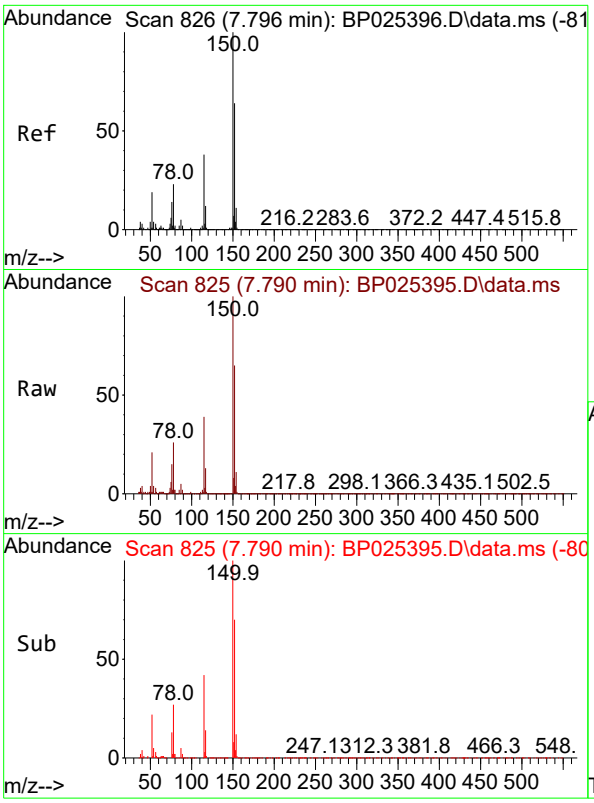
Quant Time: Aug 14 17:54:49 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 17:44:43 2025
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 08/15/2025
Supervised By :Jagrut Upadhyay 08/15/2025

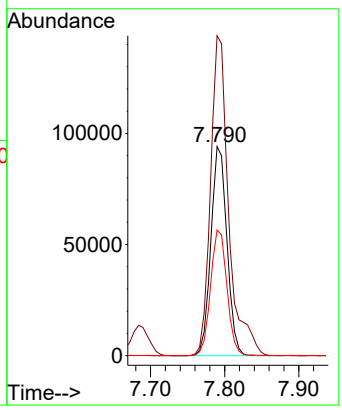




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.790 min Scan# 8
Delta R.T. -0.006 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:152 Resp: 14172

Ion	Ratio	Lower	Upper
152	100		
150	153.0	125.9	188.9
115	60.0	48.5	72.7



Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

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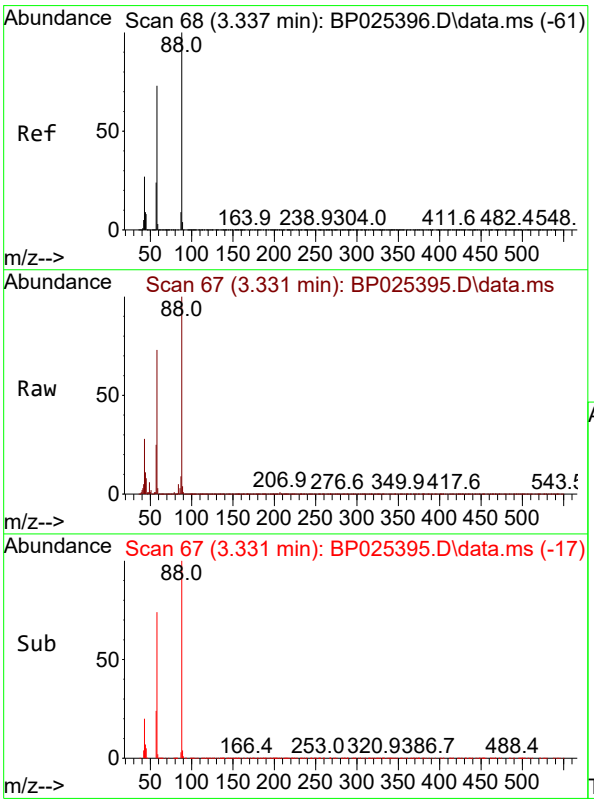
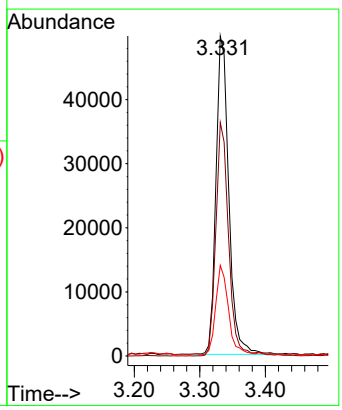
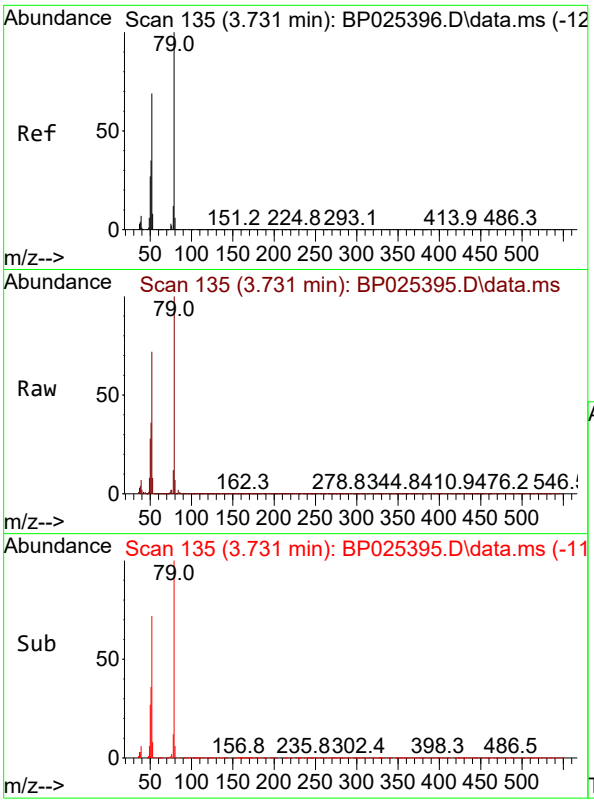


#2
1,4-Dioxane
Concen: 20.126 ng
RT: 3.331 min Scan# 67
Delta R.T. -0.006 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion: 88 Resp: 67276

Ion	Ratio	Lower	Upper
88	100		
58	73.2	59.2	88.8
43	27.9	21.7	32.5

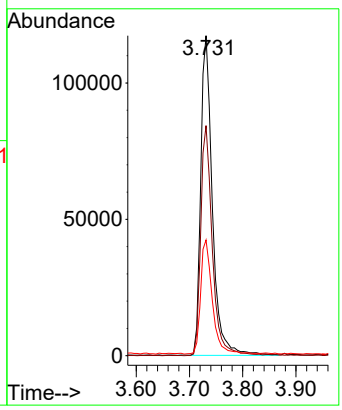




#3
Pyridine
Concen: 19.450 ng
RT: 3.731 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion: 79 Resp: 17794

Ion	Ratio	Lower	Upper
79	100		
52	71.9	55.5	83.3
51	36.1	28.3	42.5



Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 08/15/2025
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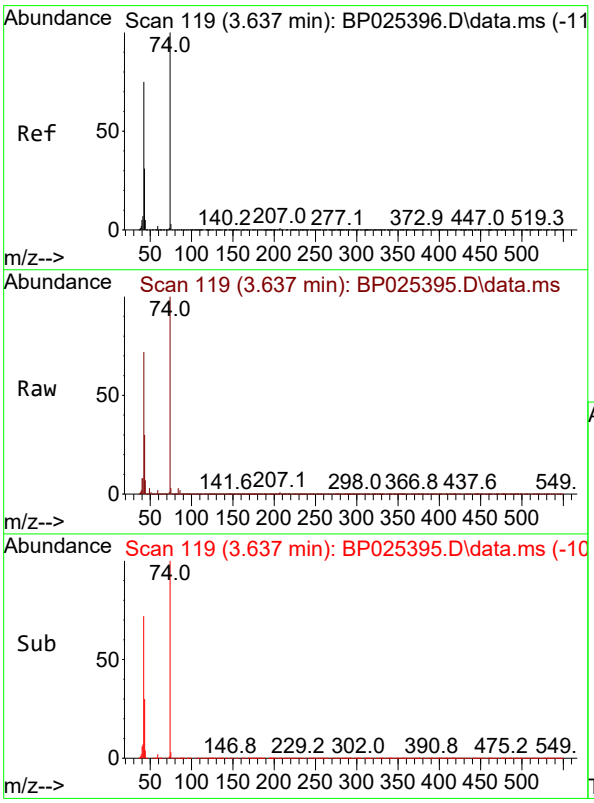
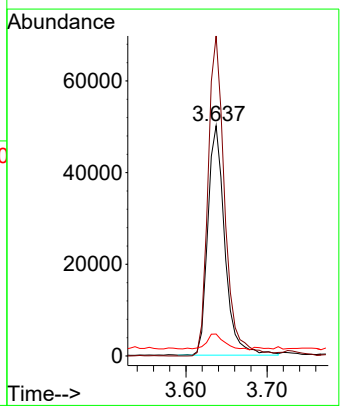
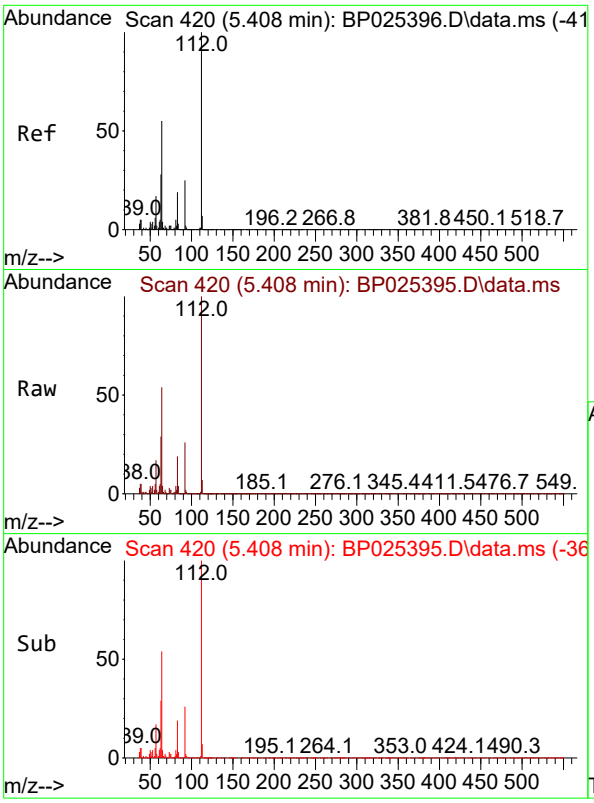


#4
n-Nitrosodimethylamine
Concen: 19.255 ng
RT: 3.637 min Scan# 119
Delta R.T. 0.000 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion: 42 Resp: 72627

Ion	Ratio	Lower	Upper
42	100		
74	138.9	107.0	160.4
44	9.5	6.2	9.4#

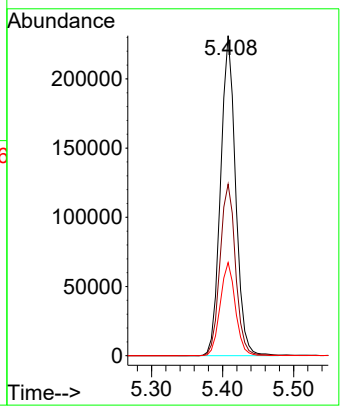




#5
2-Fluorophenol
Concen: 39.674 ng
RT: 5.408 min Scan# 4
Delta R.T. 0.000 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:112 Resp: 33856

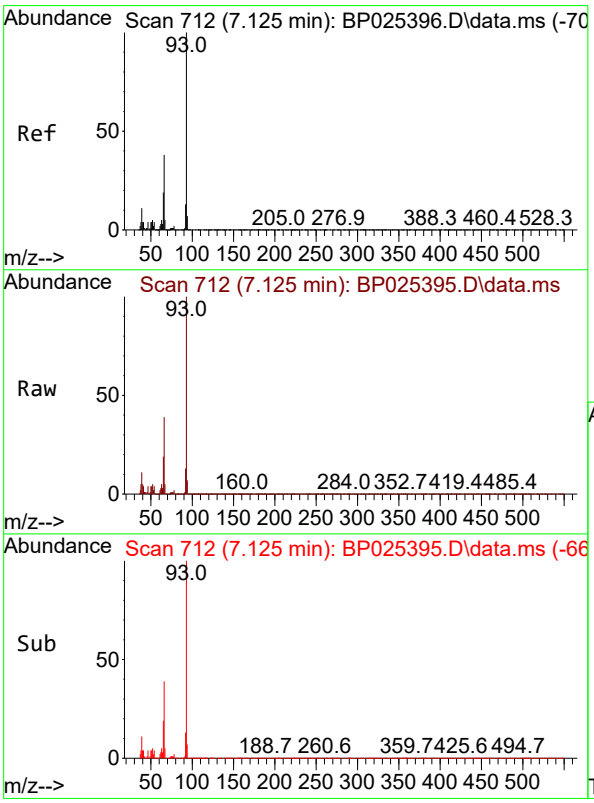
Ion	Ratio	Lower	Upper
112	100		
64	53.6	43.8	65.8
63	29.1	22.7	34.1



Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

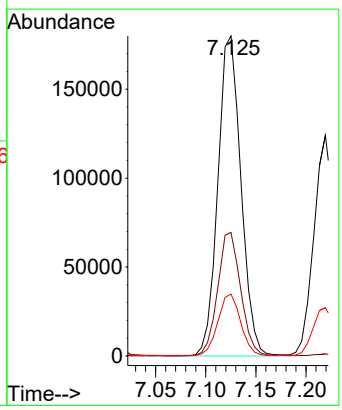
Reviewed By :Rahul Chavli 08/15/2025
Supervised By :Jagrut Upadhyay 08/15/2025

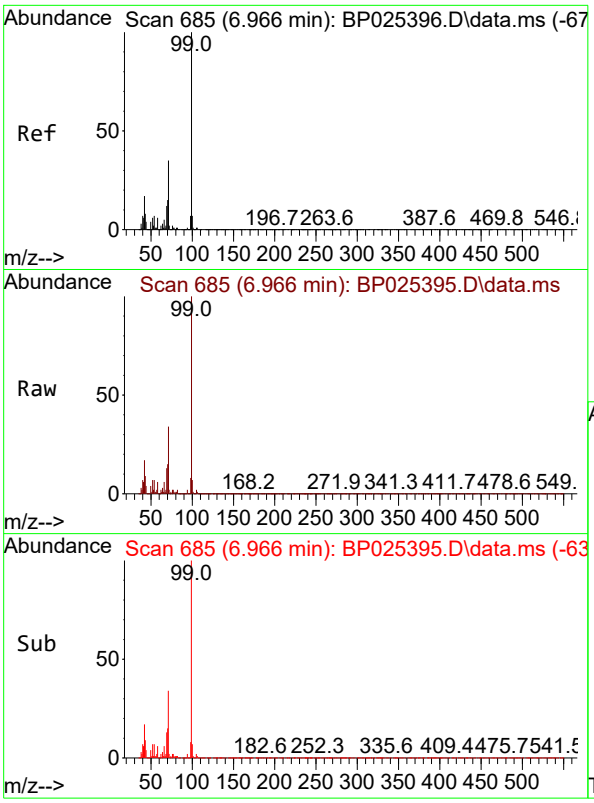


#6
Aniline
Concen: 19.513 ng
RT: 7.125 min Scan# 712
Delta R.T. 0.000 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion: 93 Resp: 287645

Ion	Ratio	Lower	Upper
93	100		
66	38.6	30.4	45.6
65	19.4	15.3	22.9

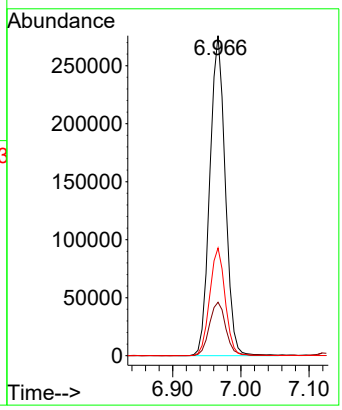




#7
Phenol-d6
Concen: 39.702 ng
RT: 6.966 min Scan# 6
Delta R.T. 0.000 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion: 99 Resp: 43438

Ion	Ratio	Lower	Upper
99	100		
42	16.7	13.7	20.5
71	33.7	28.2	42.4



Instrument :
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ClientSampleId :
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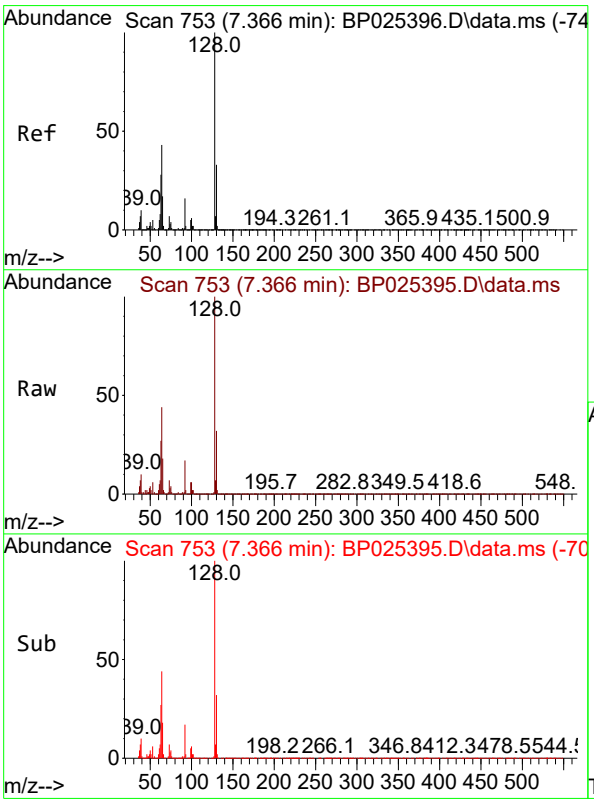
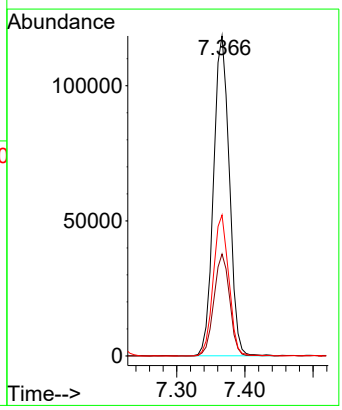
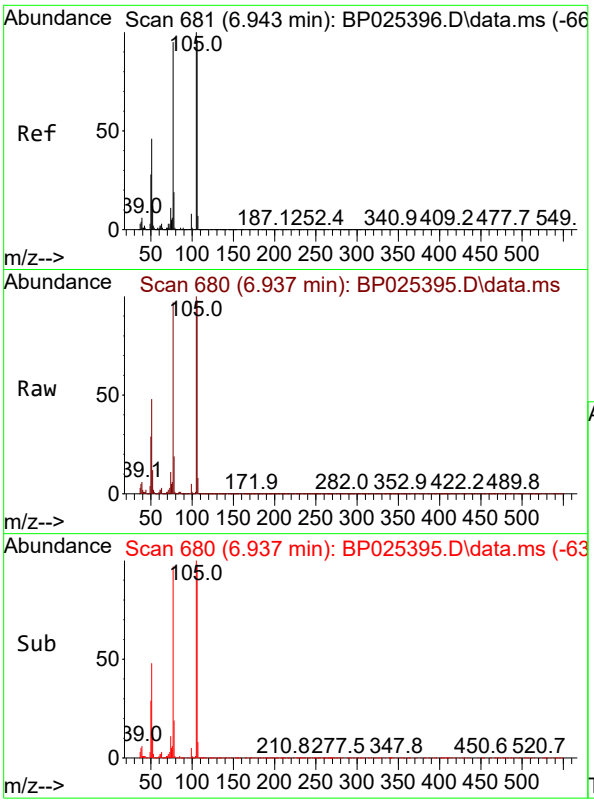


#8
2-Chlorophenol
Concen: 19.819 ng
RT: 7.366 min Scan# 753
Delta R.T. 0.000 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:128 Resp: 190858

Ion	Ratio	Lower	Upper
128	100		
130	31.9	12.6	52.6
64	44.0	23.4	63.4

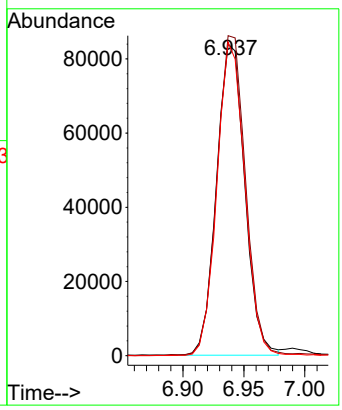




#9
Benzaldehyde
Concen: 17.672 ng
RT: 6.937 min Scan# 6
Delta R.T. -0.006 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion: 77 Resp: 13546

Ion	Ratio	Lower	Upper
77	100		
105	102.7	84.8	124.8
106	100.6	80.5	120.5



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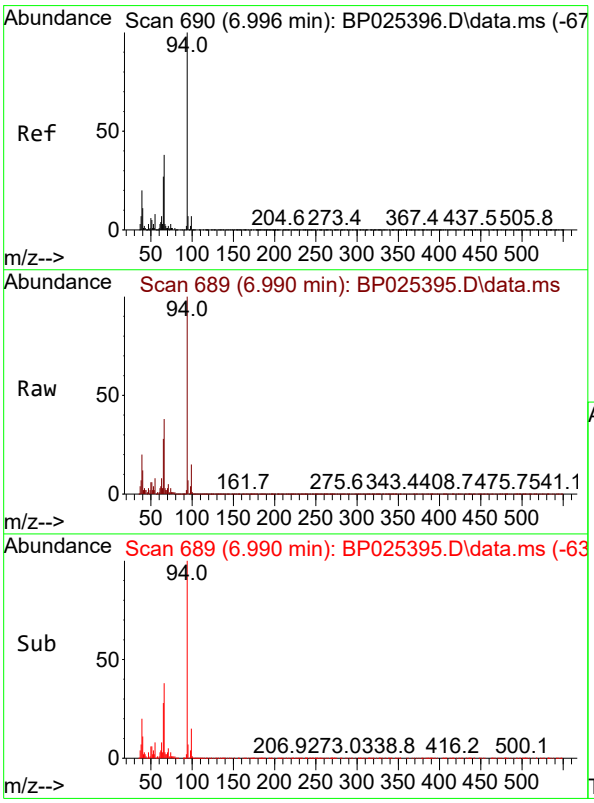
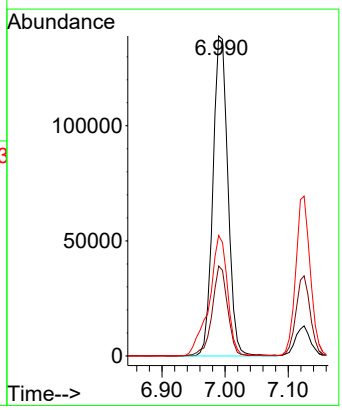
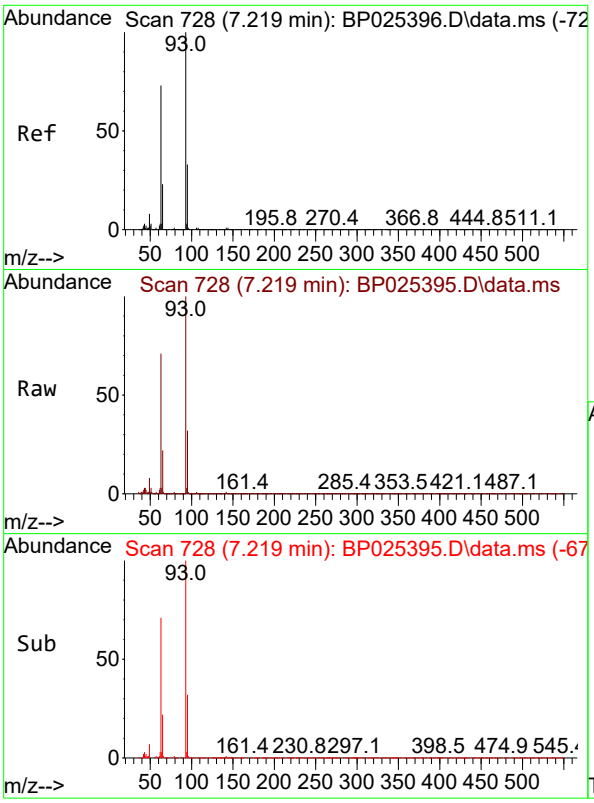


#10
Phenol
Concen: 19.910 ng
RT: 6.990 min Scan# 689
Delta R.T. -0.006 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion: 94 Resp: 228580

Ion	Ratio	Lower	Upper
94	100		
65	28.1	6.8	46.8
66	37.7	18.2	58.2

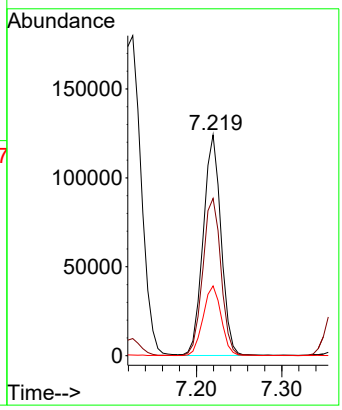




#11
bis(2-Chloroethyl)ether
Concen: 20.159 ng
RT: 7.219 min Scan# 7
Delta R.T. 0.000 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion: 93 Resp: 18039

Ion	Ratio	Lower	Upper
93	100		
63	71.2	52.6	92.6
95	31.6	12.7	52.7



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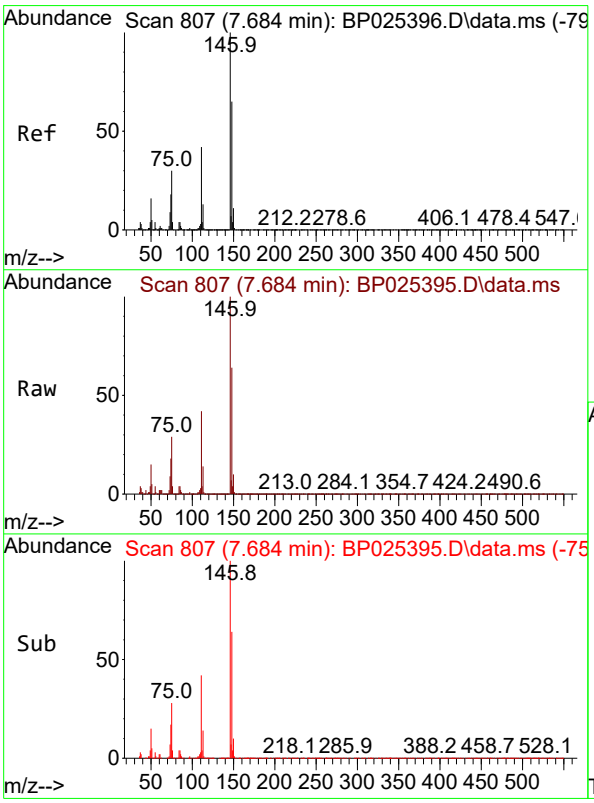
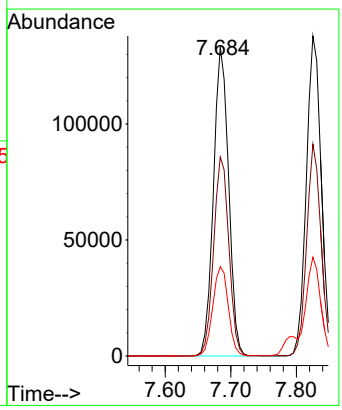
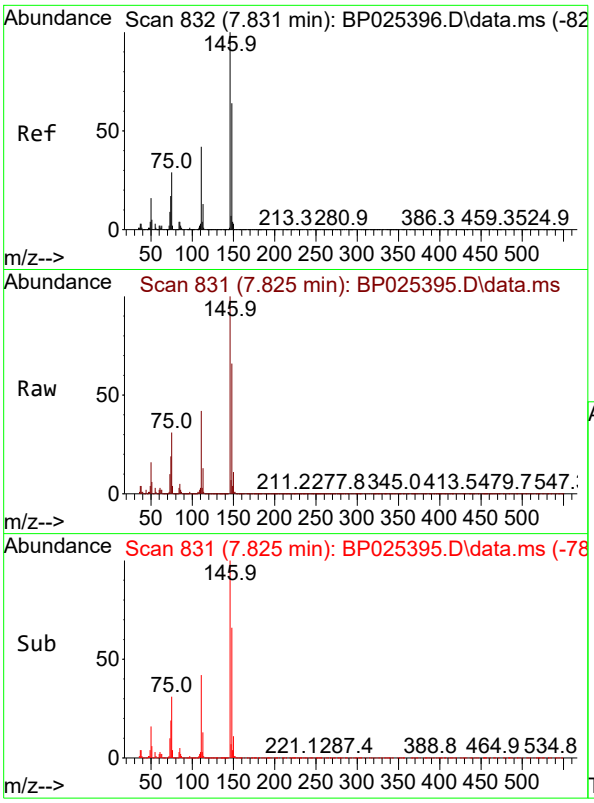


#12
1,3-Dichlorobenzene
Concen: 20.061 ng
RT: 7.684 min Scan# 807
Delta R.T. 0.000 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:146 Resp: 213023

Ion	Ratio	Lower	Upper
146	100		
148	64.4	51.9	77.9
75	28.9	23.7	35.5

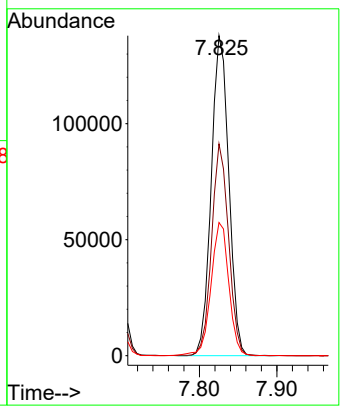




#13
1,4-Dichlorobenzene
Concen: 19.938 ng
RT: 7.825 min Scan# 8
Delta R.T. -0.006 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:146 Resp: 21640

Ion	Ratio	Lower	Upper
146	100		
148	66.2	51.6	77.4
111	41.6	33.4	50.0



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BNA_P
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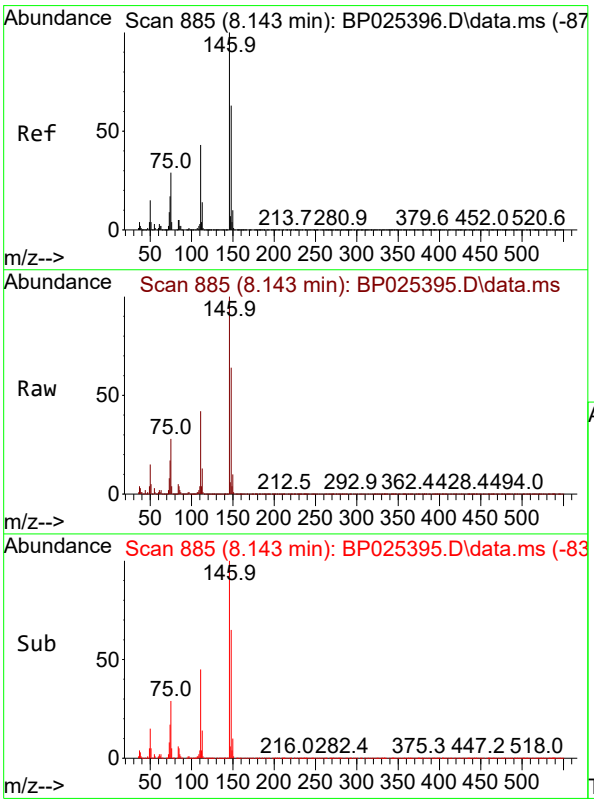
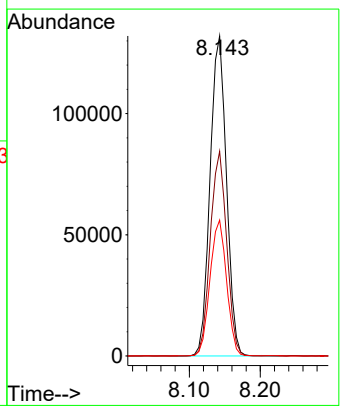
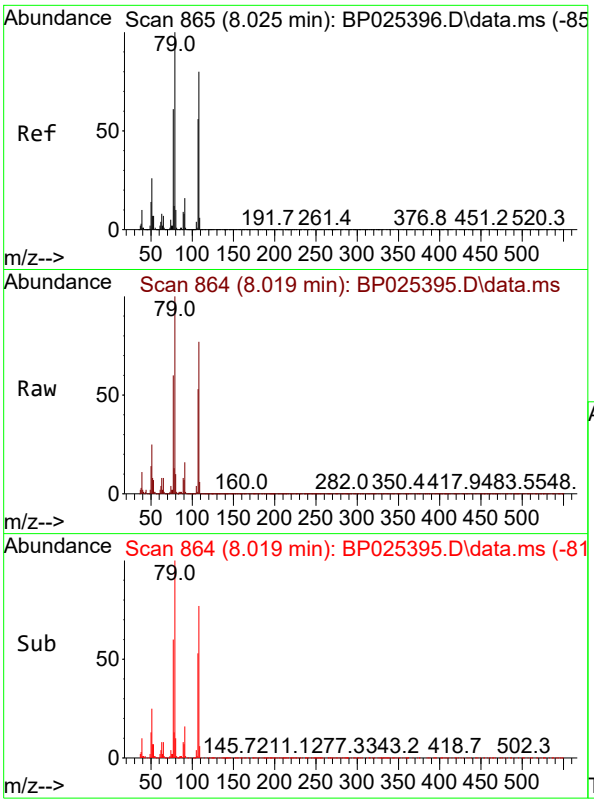


#14
1,2-Dichlorobenzene
Concen: 20.106 ng
RT: 8.143 min Scan# 885
Delta R.T. 0.000 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:146 Resp: 211243

Ion	Ratio	Lower	Upper
146	100		
148	64.0	50.4	75.6
111	42.4	34.5	51.7

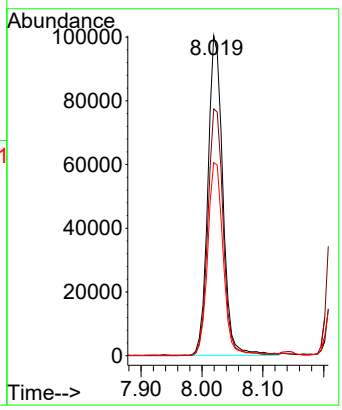




#15
Benzyl Alcohol
Concen: 19.640 ng
RT: 8.019 min Scan# 8
Delta R.T. -0.006 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion: 79 Resp: 17073

Ion	Ratio	Lower	Upper
79	100		
108	77.1	63.8	95.6
77	60.3	49.0	73.4



Instrument :
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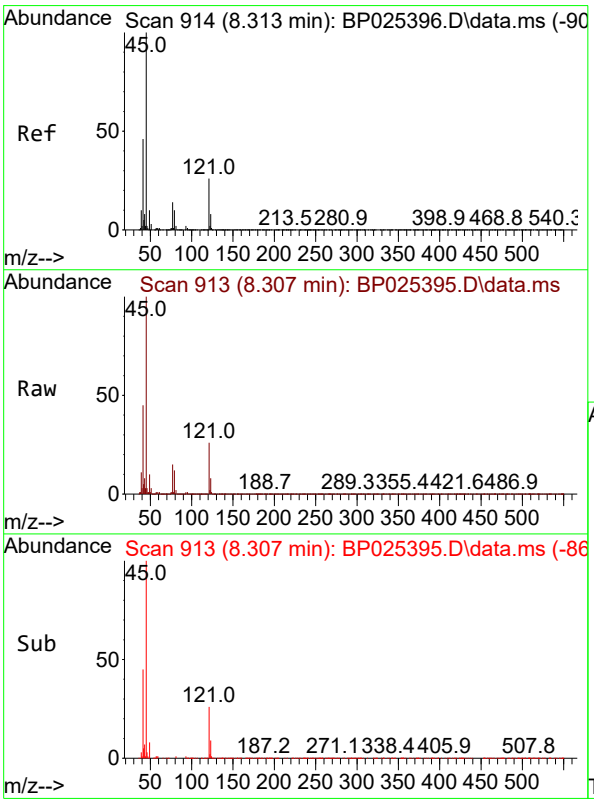
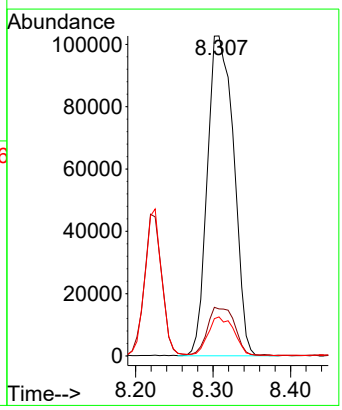
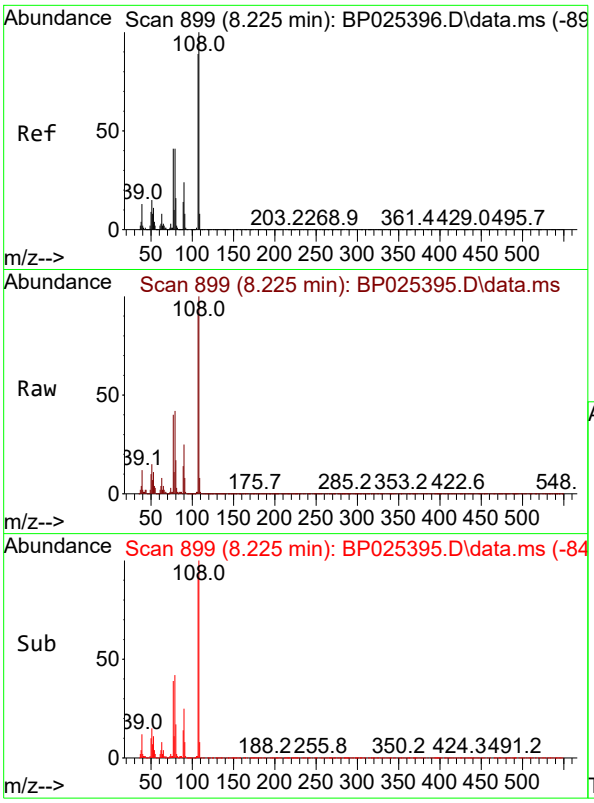


#16
2,2'-oxybis(1-Chloropropane)
Concen: 20.240 ng
RT: 8.307 min Scan# 913
Delta R.T. -0.006 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion: 45 Resp: 242616

Ion	Ratio	Lower	Upper
45	100		
77	14.7	0.0	35.3
79	12.2	0.0	31.8

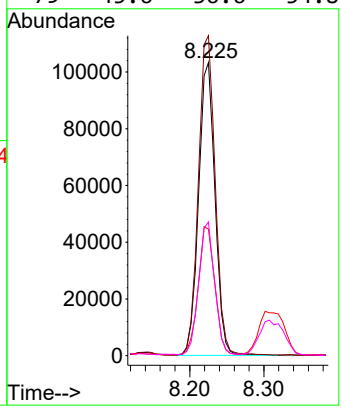




#17
2-Methylphenol
Concen: 19.956 ng
RT: 8.225 min Scan# 8
Delta R.T. 0.000 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:107 Resp: 15911

Ion	Ratio	Lower	Upper
107	100		
108	109.2	89.4	134.0
77	43.2	36.3	54.5
79	45.6	36.6	54.8



Instrument :
BNA_P
ClientSampleId :
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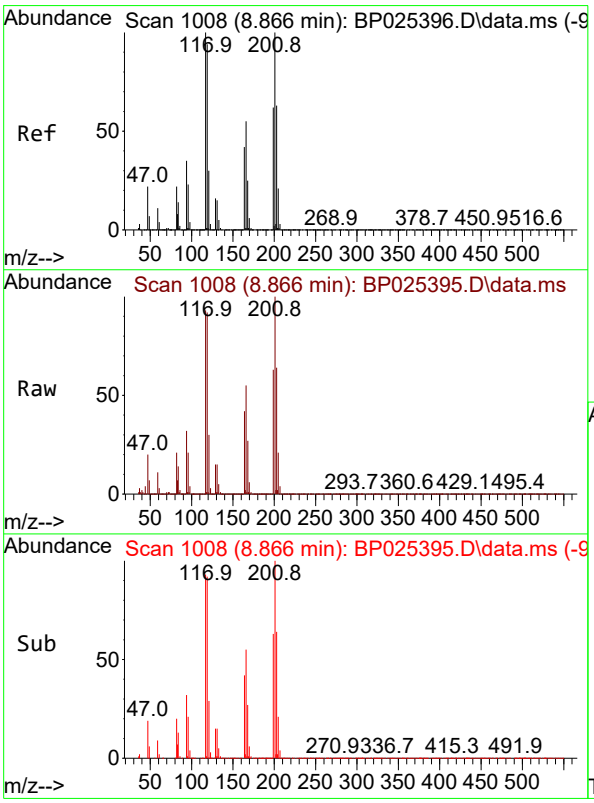
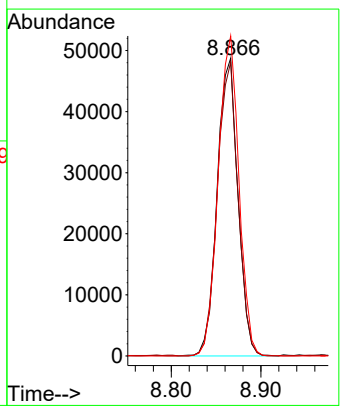
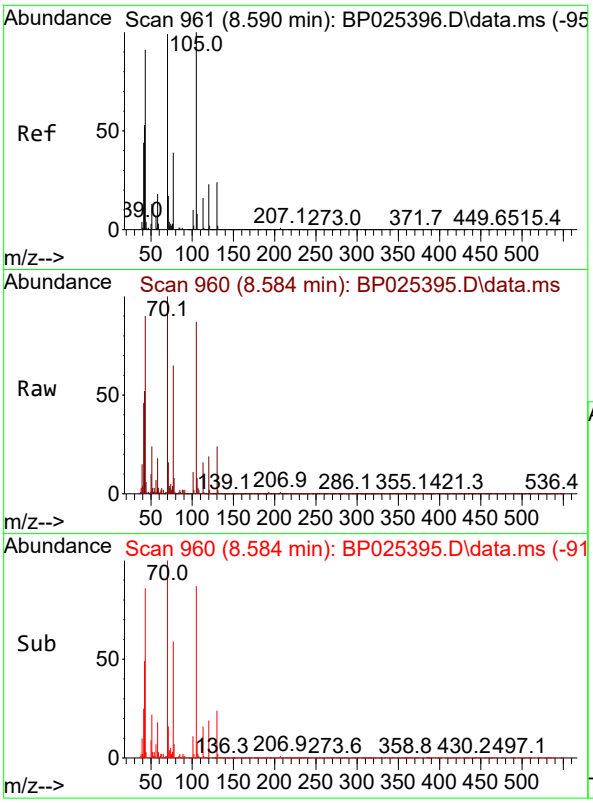


#18
Hexachloroethane
Concen: 19.597 ng
RT: 8.866 min Scan# 1008
Delta R.T. 0.000 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:117 Resp: 78205

Ion	Ratio	Lower	Upper
117	100		
119	98.8	75.1	112.7
201	107.5	80.1	120.1

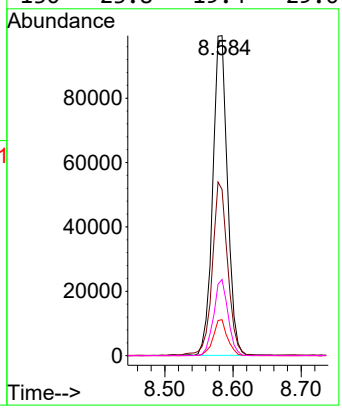




#19
n-Nitroso-di-n-propylamine
Concen: 20.633 ng
RT: 8.584 min Scan# 9
Delta R.T. -0.006 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion: 70 Resp: 14971

Ion	Ratio	Lower	Upper
70	100		
42	52.0	43.8	65.6
101	11.3	8.5	12.7
130	23.8	19.4	29.0



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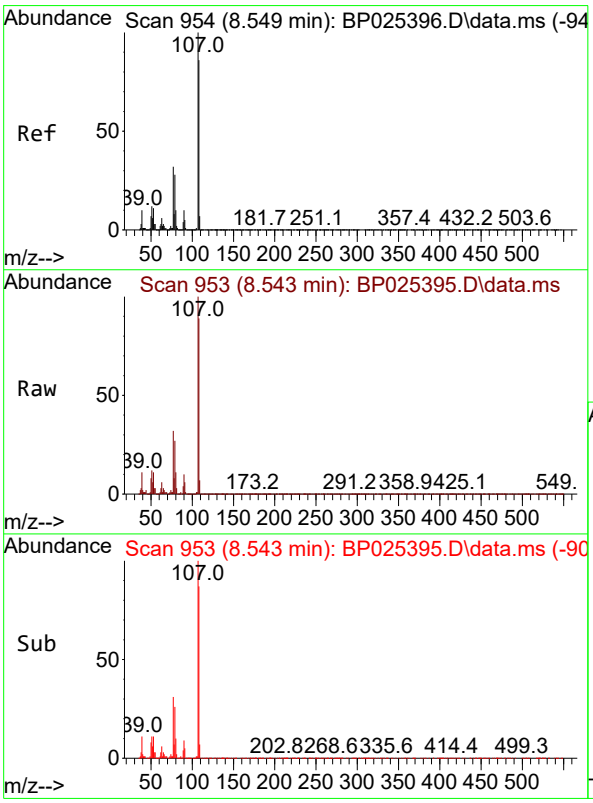
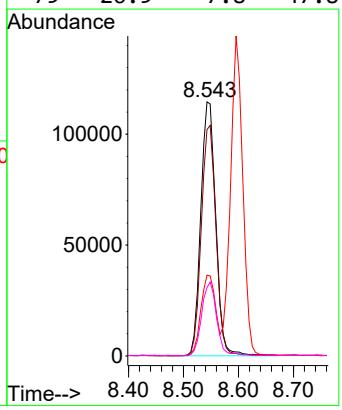
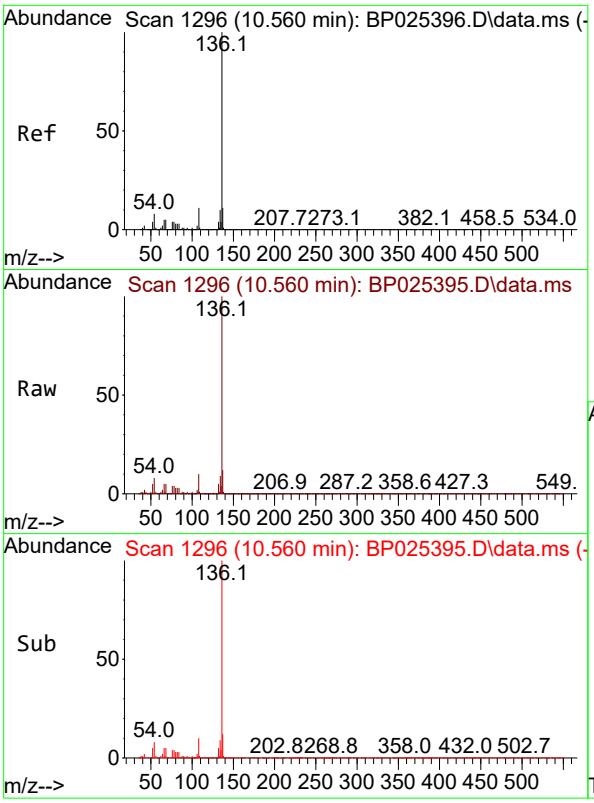


#20
3+4-Methylphenols
Concen: 19.655 ng
RT: 8.543 min Scan# 953
Delta R.T. -0.006 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:107 Resp: 217240

Ion	Ratio	Lower	Upper
107	100		
108	89.1	66.3	106.3
77	31.8	12.3	52.3
79	26.9	7.8	47.8

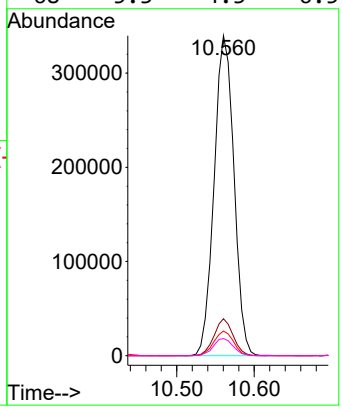




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.560 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:136 Resp: 60379

Ion	Ratio	Lower	Upper
136	100		
137	11.6	9.2	13.8
54	7.7	6.0	9.0
68	5.3	4.3	6.5



Instrument :
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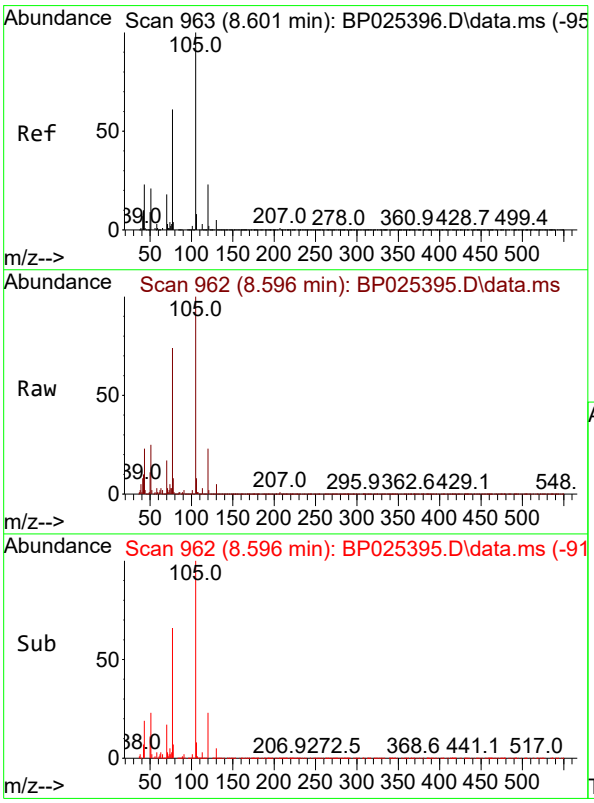
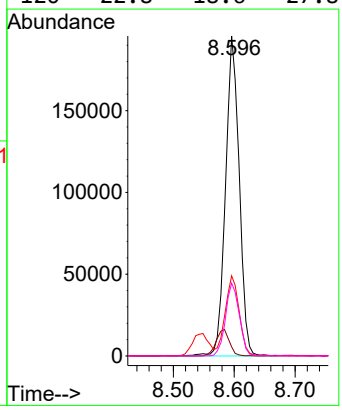
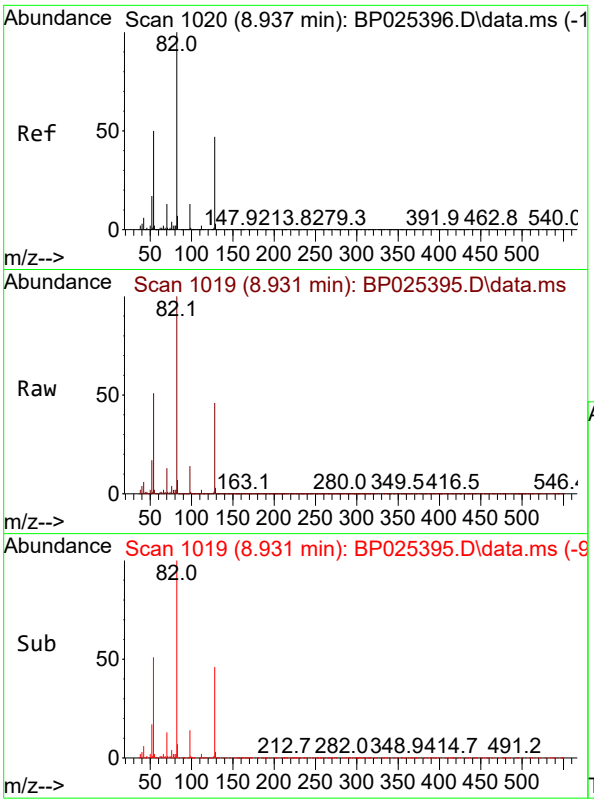


#22
Acetophenone
Concen: 20.196 ng
RT: 8.596 min Scan# 962
Delta R.T. -0.006 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:105 Resp: 305812

Ion	Ratio	Lower	Upper
105	100		
71	2.8	2.6	4.0
51	25.0	20.6	30.8
120	22.8	18.6	27.8





#23
Nitrobenzene-d5
Concen: 39.706 ng
RT: 8.931 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion: 82 Resp: 47393

Ion	Ratio	Lower	Upper
82	100		
128	46.3	37.7	56.5
54	50.8	39.8	59.6

Instrument :
BNA_P
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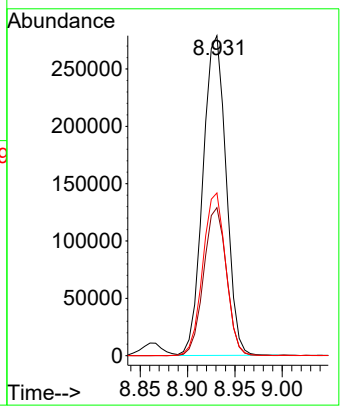
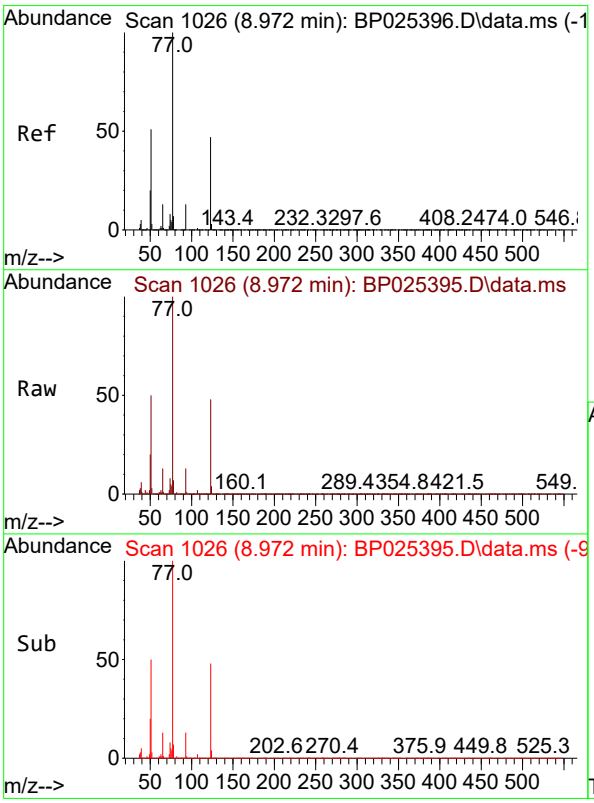
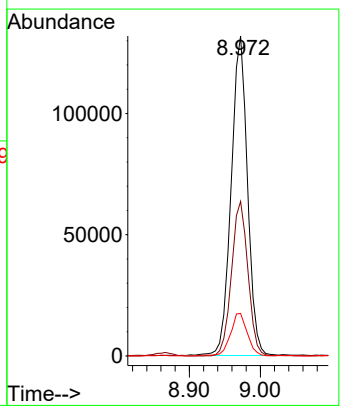


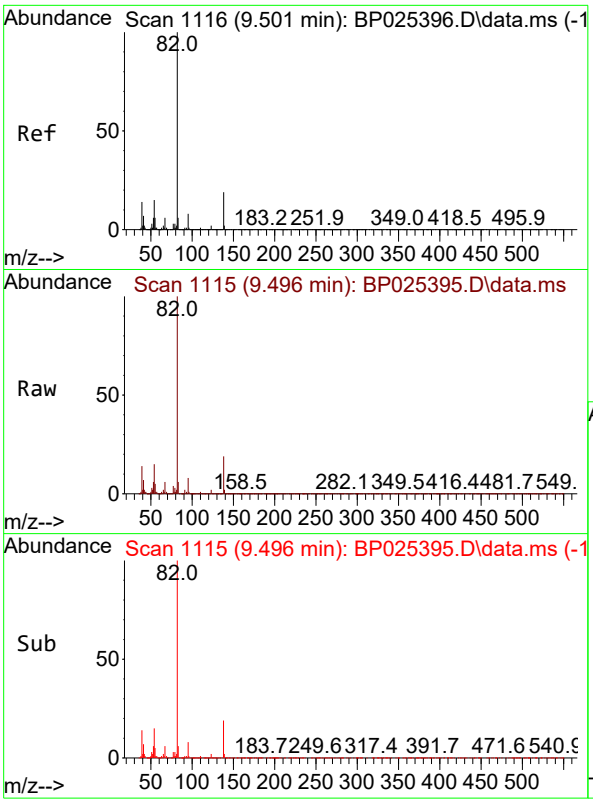


#24
Nitrobenzene
Concen: 19.708 ng
RT: 8.972 min Scan# 1026
Delta R.T. 0.000 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion: 77 Resp: 210234

Ion	Ratio	Lower	Upper
77	100		
123	48.3	38.6	58.0
65	13.3	10.6	15.8

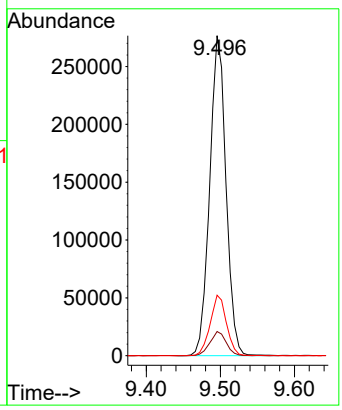




#25
Isophorone
Concen: 19.995 ng
RT: 9.496 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion: 82 Resp: 42237

Ion	Ratio	Lower	Upper
82	100		
95	7.6	6.4	9.6
138	18.9	15.4	23.0



Instrument :
BNA_P
ClientSampleId :
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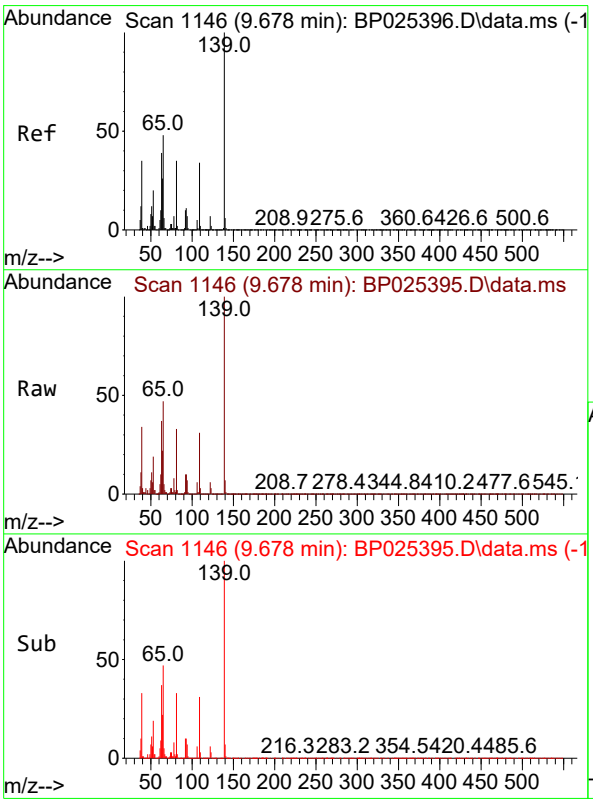
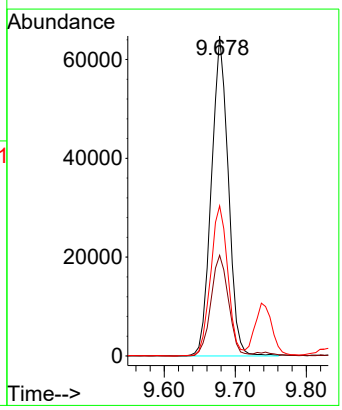
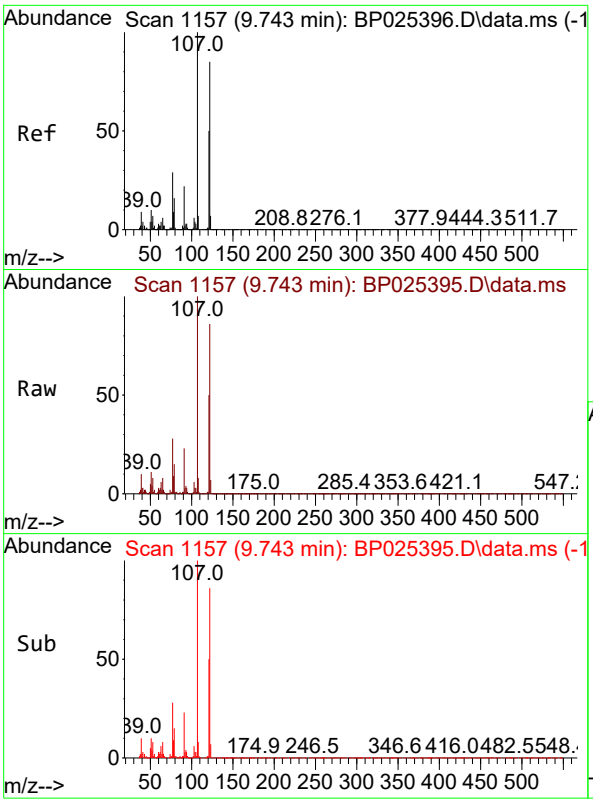


#26
2-Nitrophenol
Concen: 19.509 ng
RT: 9.678 min Scan# 1146
Delta R.T. 0.000 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:139 Resp: 106805

Ion	Ratio	Lower	Upper
139	100		
109	31.5	26.9	40.3
65	46.9	38.3	57.5

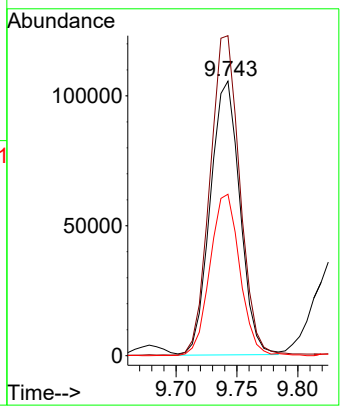




#27
2,4-Dimethylphenol
Concen: 18.963 ng
RT: 9.743 min Scan# 11
Delta R.T. 0.000 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:122 Resp: 17853

Ion	Ratio	Lower	Upper
122	100		
107	116.5	93.7	140.5
121	58.8	46.6	69.8



Instrument :
BNA_P
ClientSampleId :
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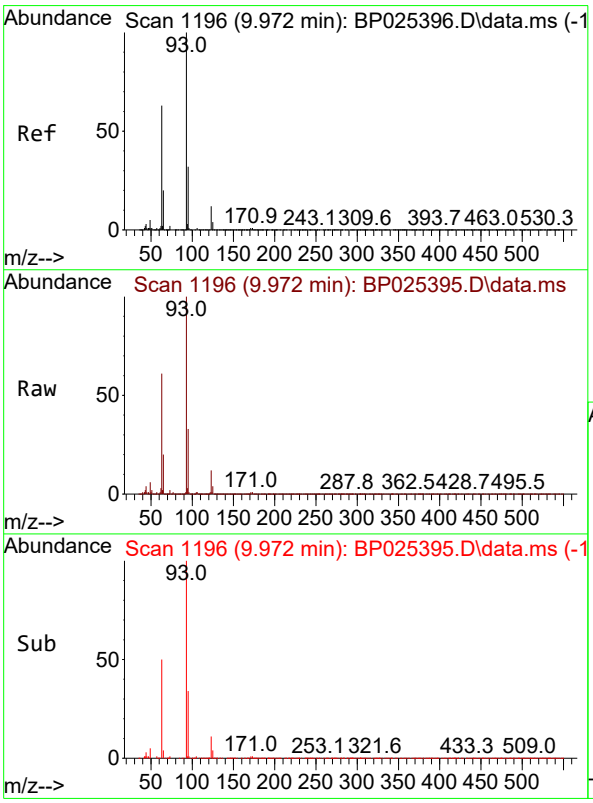
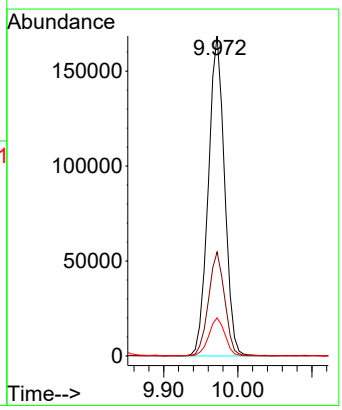
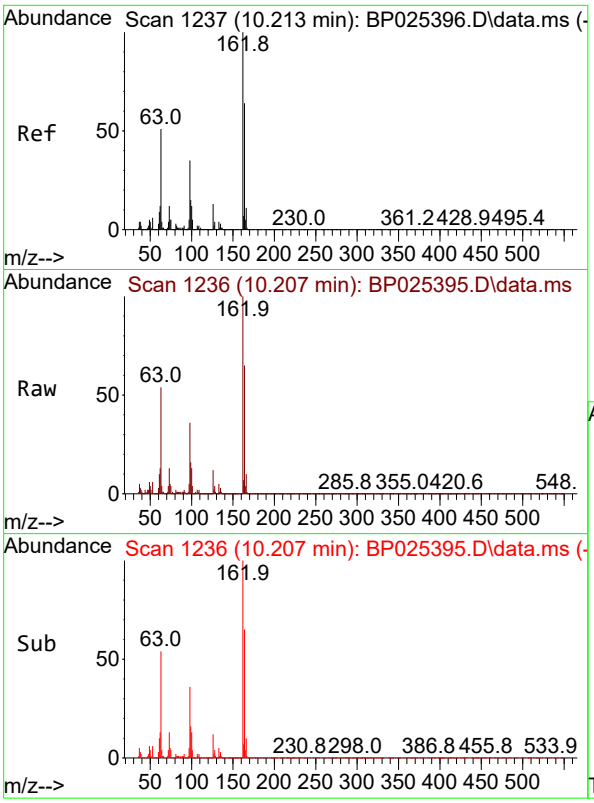


#28
bis(2-Chloroethoxy)methane
Concen: 20.100 ng
RT: 9.972 min Scan# 1196
Delta R.T. 0.000 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion: 93 Resp: 256656

Ion	Ratio	Lower	Upper
93	100		
95	32.5	25.4	38.0
123	11.9	9.4	14.0

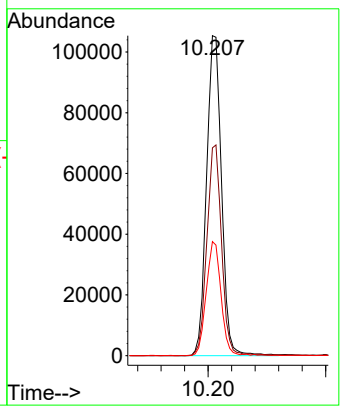




#29
2,4-Dichlorophenol
Concen: 19.896 ng
RT: 10.207 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:162 Resp: 18607

Ion	Ratio	Lower	Upper
162	100		
164	64.9	44.4	84.4
98	35.7	14.9	54.9



Instrument :
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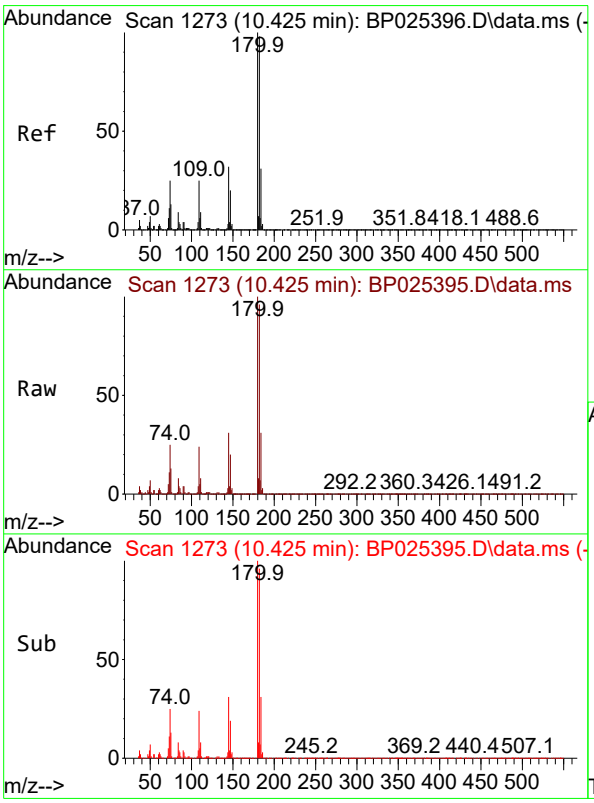
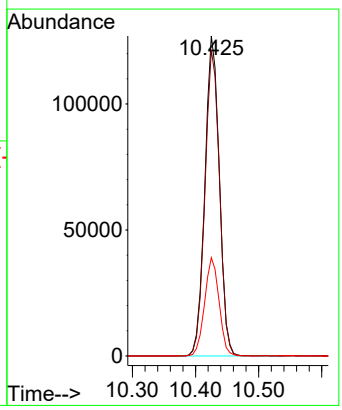
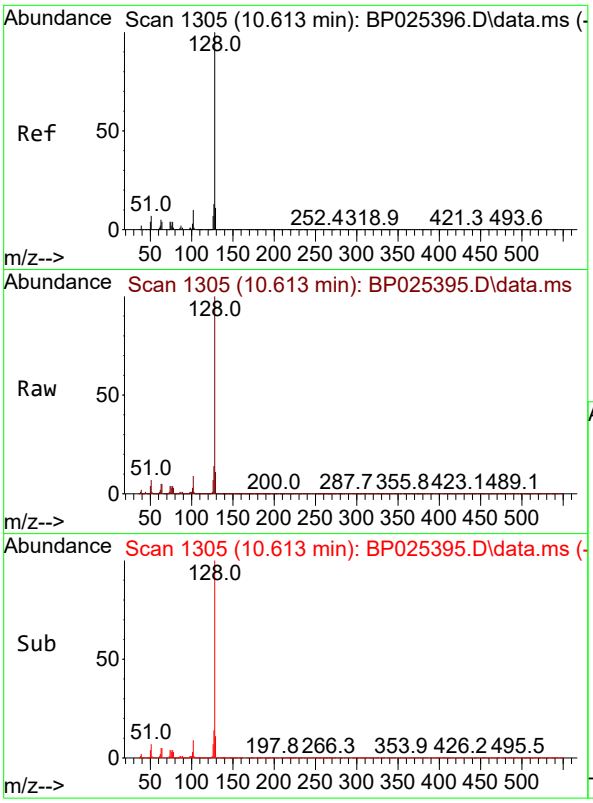


#30
1,2,4-Trichlorobenzene
Concen: 19.702 ng
RT: 10.425 min Scan# 1273
Delta R.T. 0.000 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:180 Resp: 201995

Ion	Ratio	Lower	Upper
180	100		
182	95.6	78.0	117.0
145	30.7	25.9	38.9

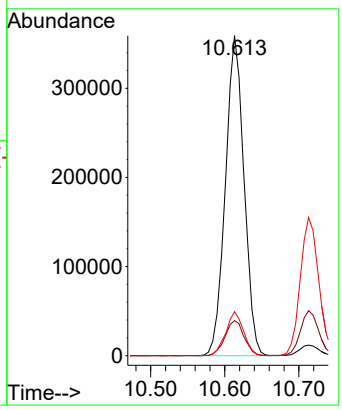




#31
Naphthalene
Concen: 19.944 ng
RT: 10.613 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:128 Resp: 625899

Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.6	13.0
127	13.7	10.7	16.1



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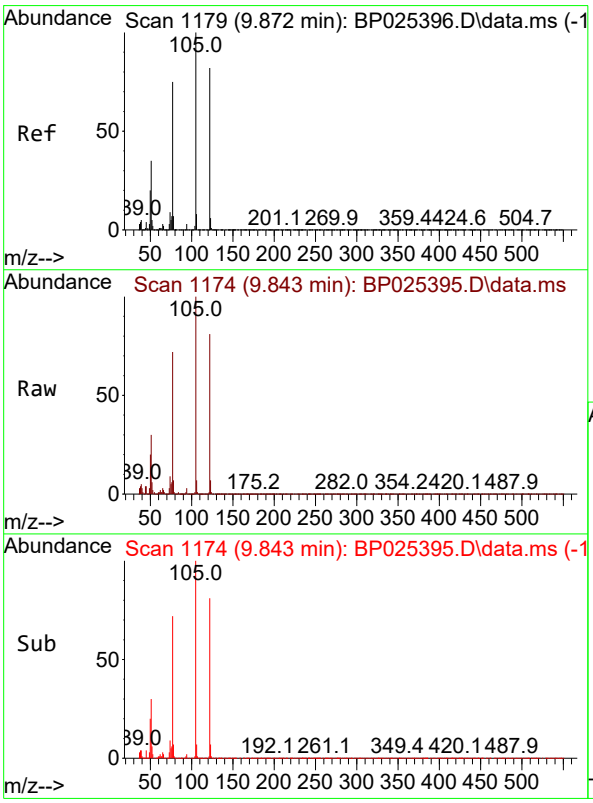
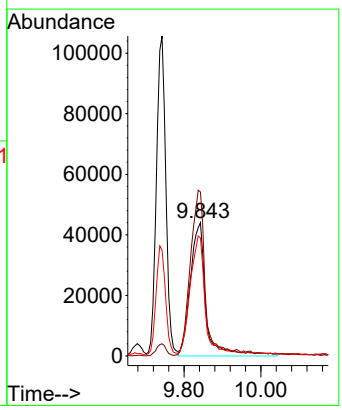
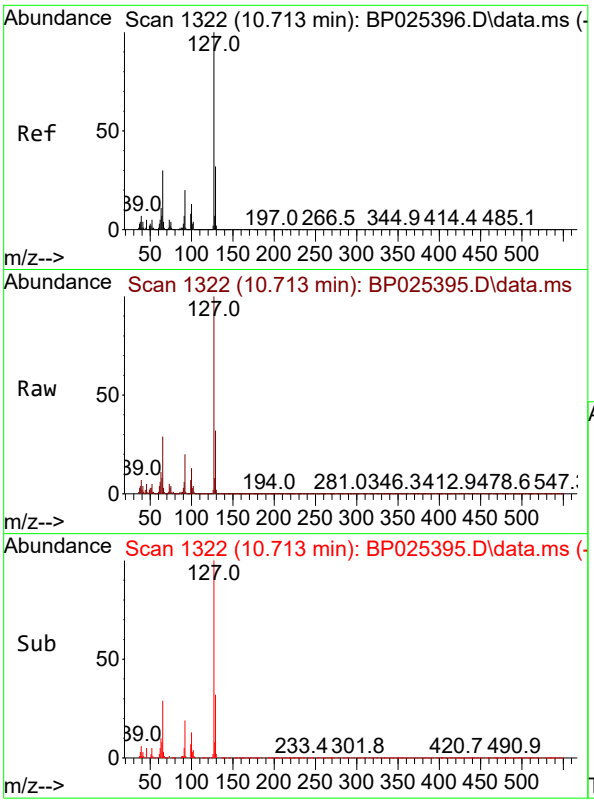


#32
Benzoic acid
Concen: 18.004 ng m
RT: 9.843 min Scan# 1174
Delta R.T. -0.029 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:122 Resp: 124836

Ion	Ratio	Lower	Upper
122	100		
105	122.9	100.6	140.6
77	88.5	71.5	111.5

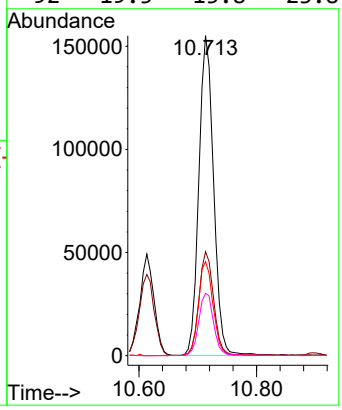




#33
4-Chloroaniline
Concen: 19.489 ng
RT: 10.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:127 Resp: 27015

Ion	Ratio	Lower	Upper
127	100		
129	32.5	25.4	38.2
65	29.4	23.8	35.6
92	19.5	15.8	23.8



Instrument :
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ClientSampleId :
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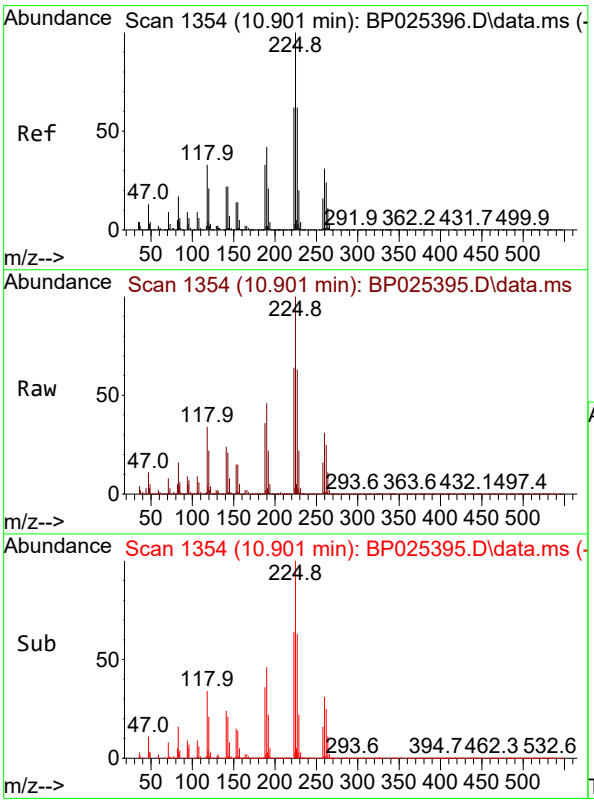
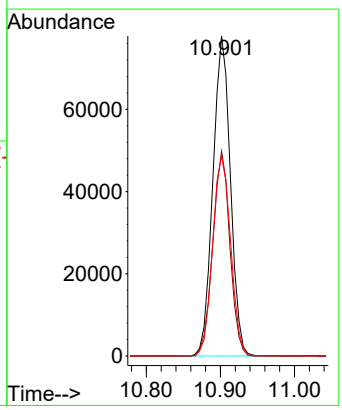
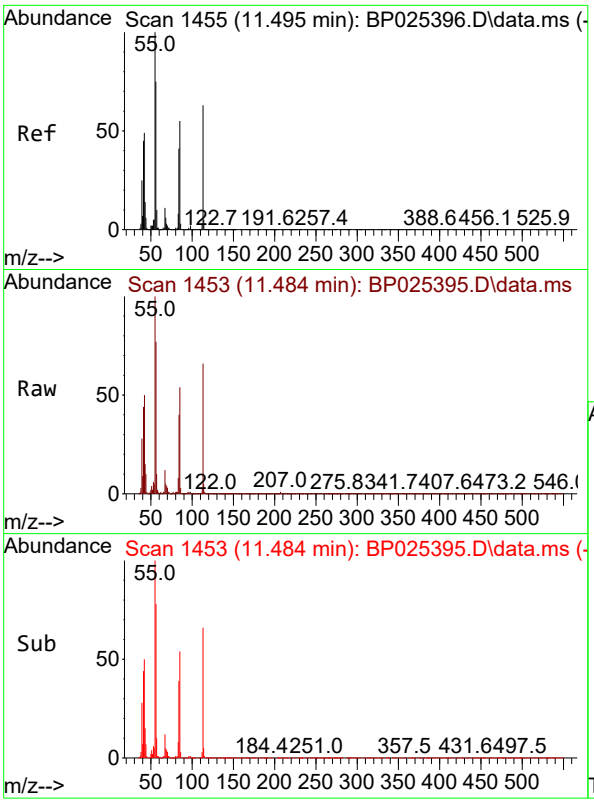


#34
Hexachlorobutadiene
Concen: 19.983 ng
RT: 10.901 min Scan# 1354
Delta R.T. 0.000 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:225 Resp: 127593

Ion	Ratio	Lower	Upper
225	100		
223	64.0	50.0	75.0
227	62.5	49.7	74.5

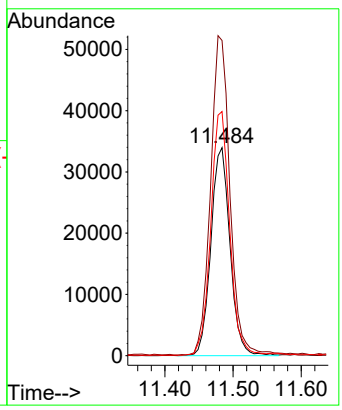




#35
Caprolactam
Concen: 19.294 ng
RT: 11.484 min Scan# 14
Delta R.T. -0.012 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:113 Resp: 6616

Ion	Ratio	Lower	Upper
113	100		
55	151.5	140.0	180.0
56	117.4	100.0	140.0



Instrument :
BNA_P
ClientSampleId :
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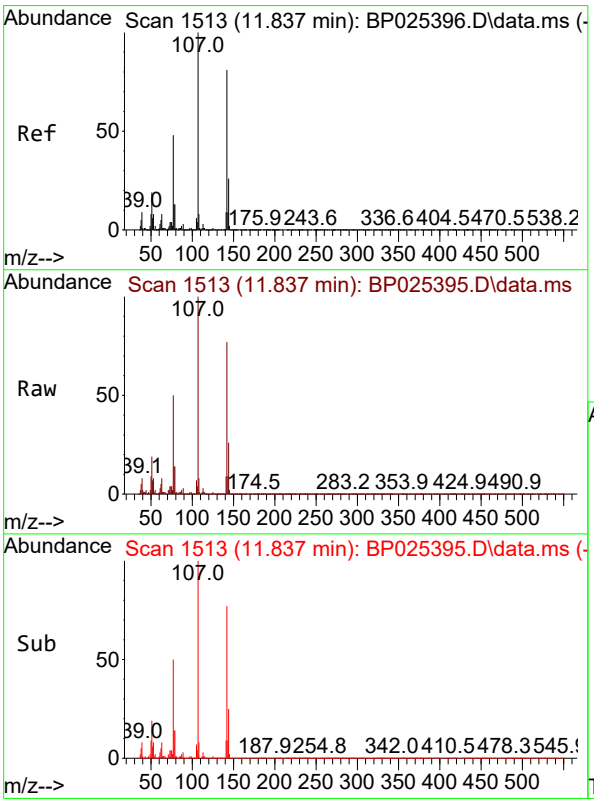
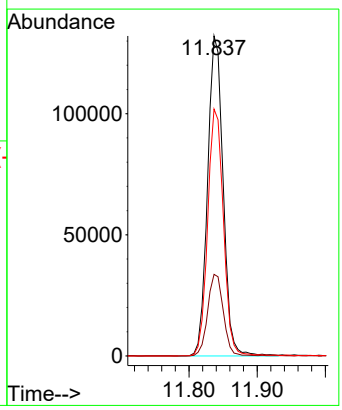
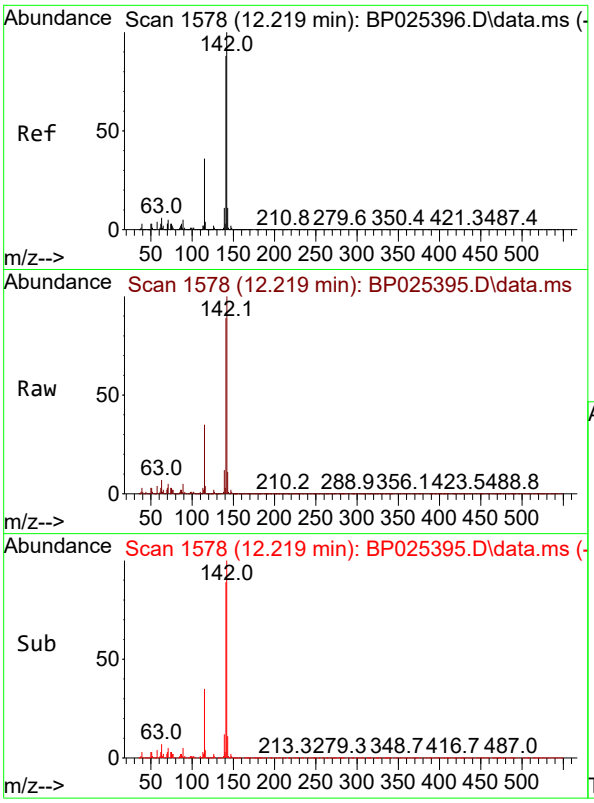


#36
4-Chloro-3-methylphenol
Concen: 19.551 ng
RT: 11.837 min Scan# 1513
Delta R.T. 0.000 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:107 Resp: 209817

Ion	Ratio	Lower	Upper
107	100		
144	25.5	21.0	31.4
142	77.1	64.6	97.0

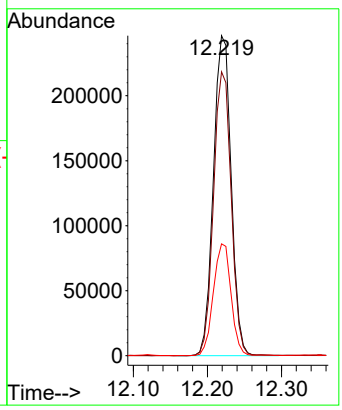




#37
2-Methylnaphthalene
Concen: 20.057 ng
RT: 12.219 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:142 Resp: 40961

Ion	Ratio	Lower	Upper
142	100		
141	88.7	70.3	105.5
115	35.0	28.9	43.3



Instrument :
BNA_P
ClientSampleId :
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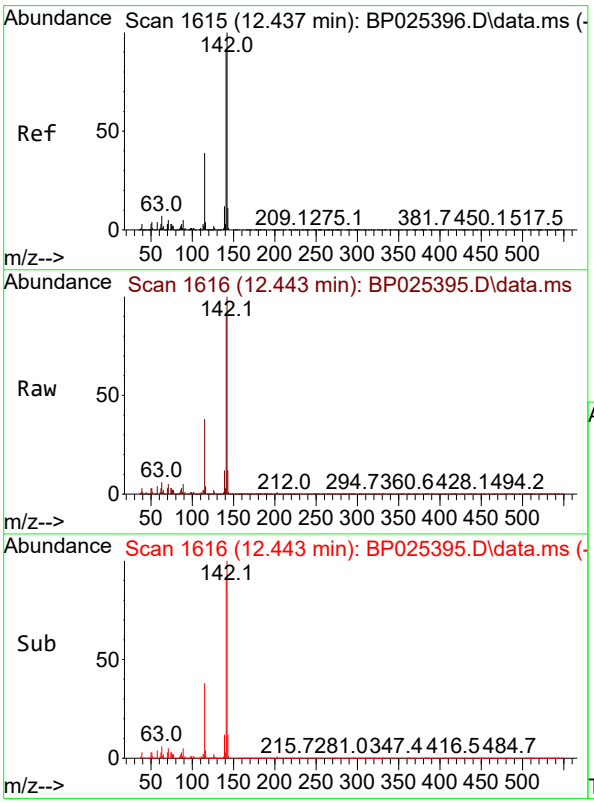
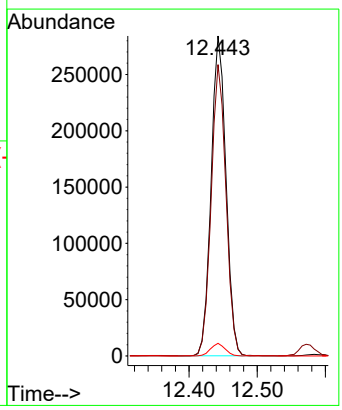
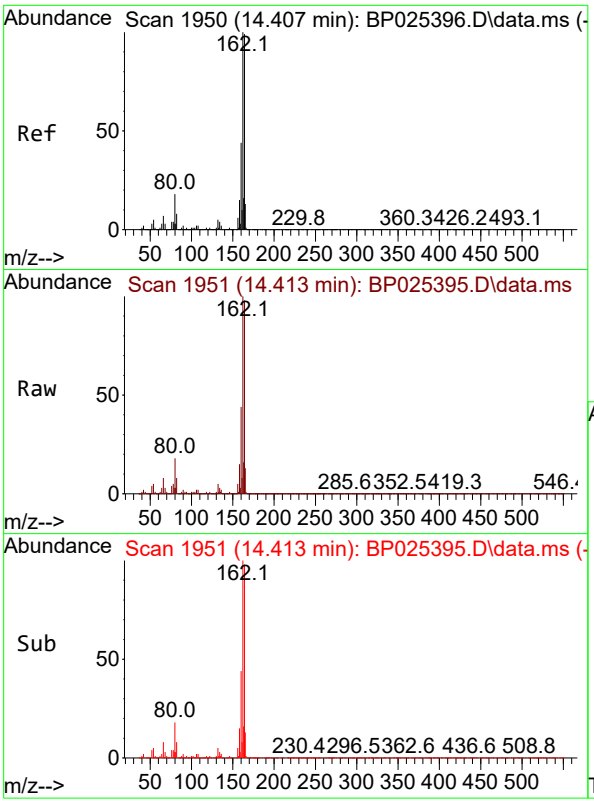


#38
1-Methylnaphthalene
Concen: 19.829 ng
RT: 12.443 min Scan# 1616
Delta R.T. 0.006 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:142 Resp: 430666

Ion	Ratio	Lower	Upper
142	100		
141	91.1	73.1	109.7
116	3.9	3.2	4.8

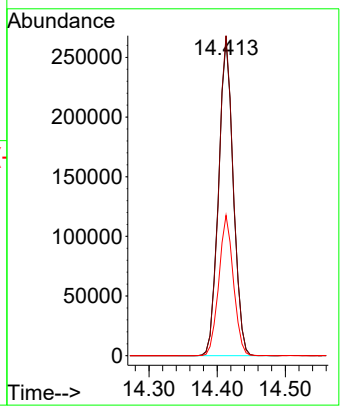




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.413 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:164 Resp: 39903

Ion	Ratio	Lower	Upper
164	100		
162	101.6	81.0	121.6
160	44.6	35.4	53.2



Instrument :
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ClientSampleId :
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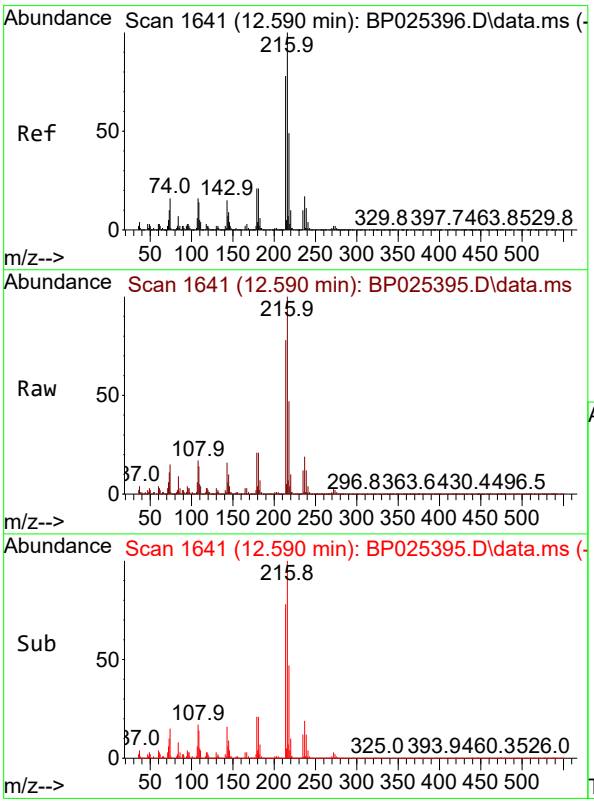
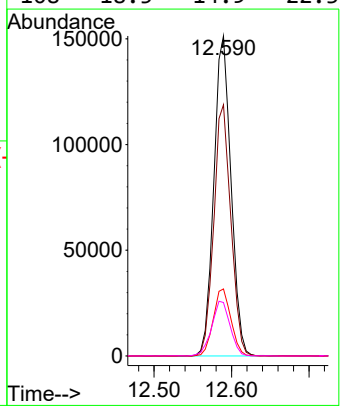
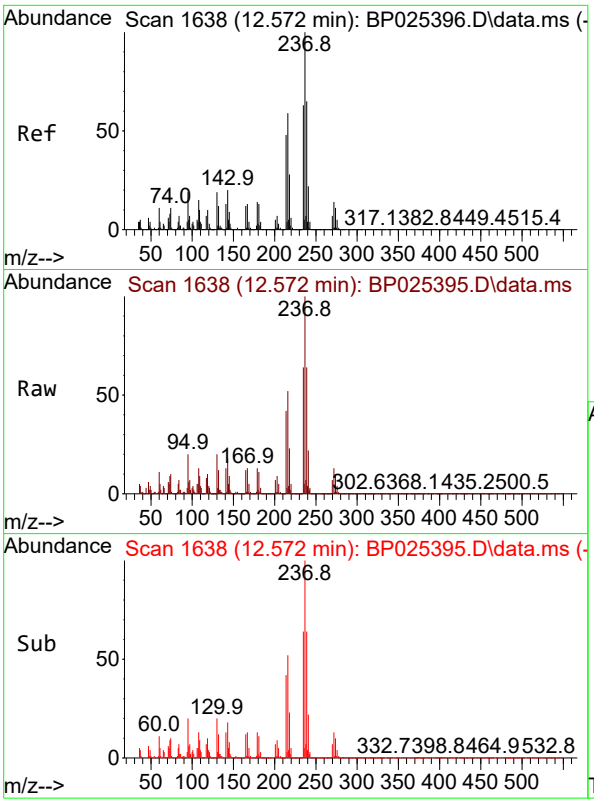


#40
1,2,4,5-Tetrachlorobenzene
Concen: 20.263 ng
RT: 12.590 min Scan# 1641
Delta R.T. 0.000 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:216 Resp: 233523

Ion	Ratio	Lower	Upper
216	100		
214	78.0	63.0	94.4
179	21.6	17.1	25.7
108	18.5	14.9	22.3

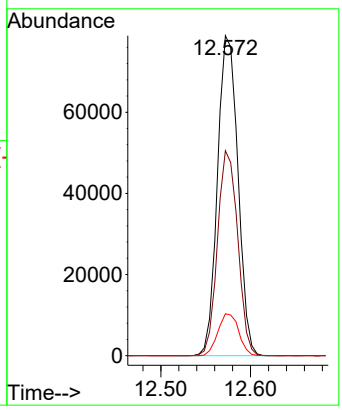




#41
Hexachlorocyclopentadiene
Concen: 17.922 ng
RT: 12.572 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:237 Resp: 12475

Ion	Ratio	Lower	Upper
237	100		
235	64.0	42.7	82.7
272	13.1	0.0	34.0



Instrument :
BNA_P
ClientSampleId :
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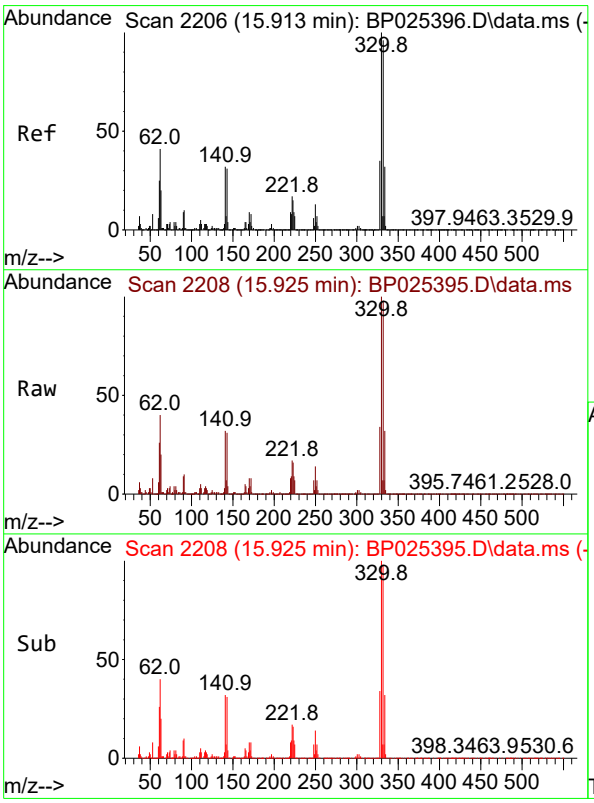
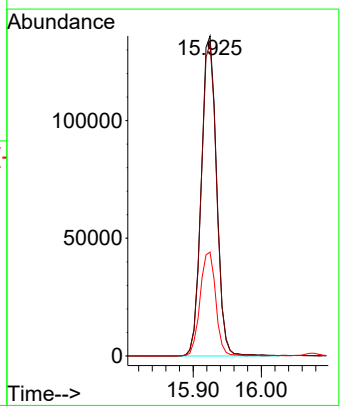
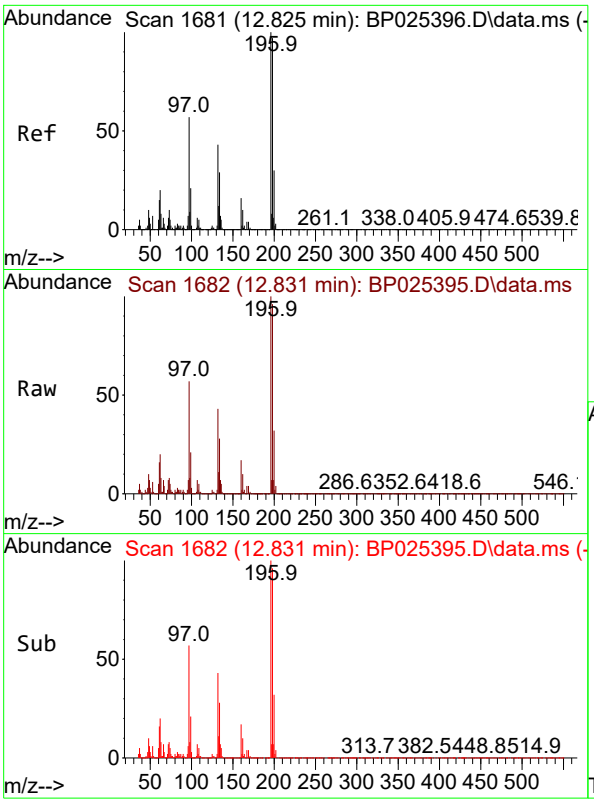


#42
2,4,6-Tribromophenol
Concen: 39.651 ng
RT: 15.925 min Scan# 2208
Delta R.T. 0.012 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:330 Resp: 212968

Ion	Ratio	Lower	Upper
330	100		
332	97.8	77.3	115.9
141	32.8	26.6	39.8





#43
2,4,6-Trichlorophenol
Concen: 19.540 ng
RT: 12.831 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:196 Resp: 15203

Ion	Ratio	Lower	Upper
196	100		
198	96.3	77.2	115.8
200	31.8	23.9	35.9

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

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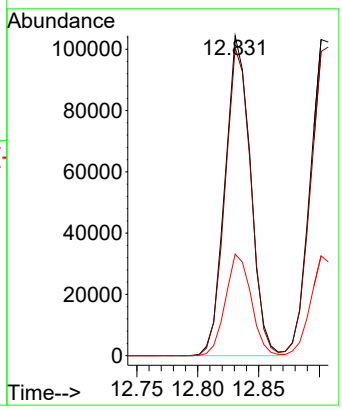
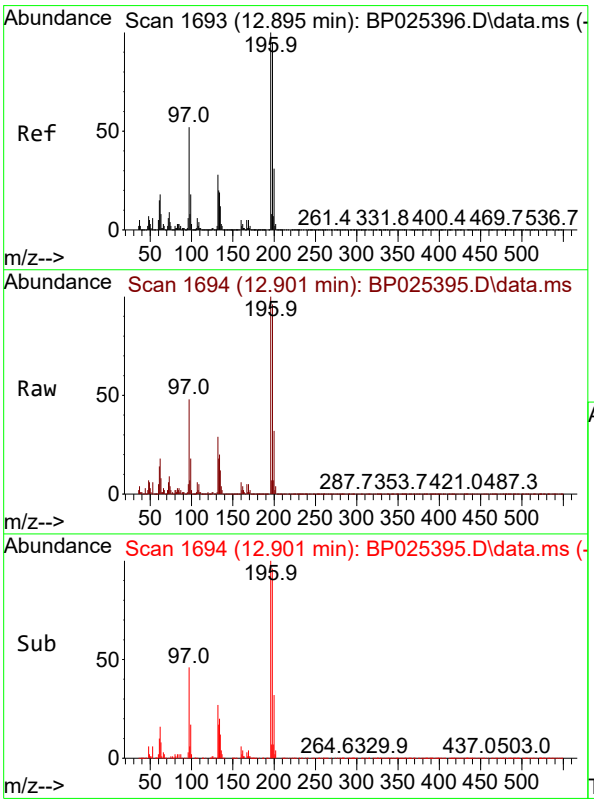
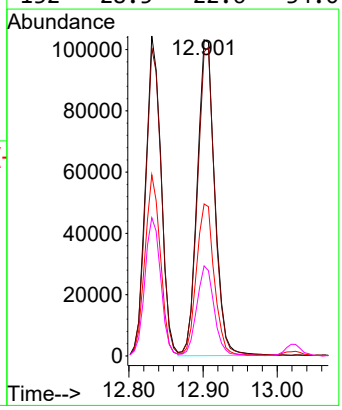


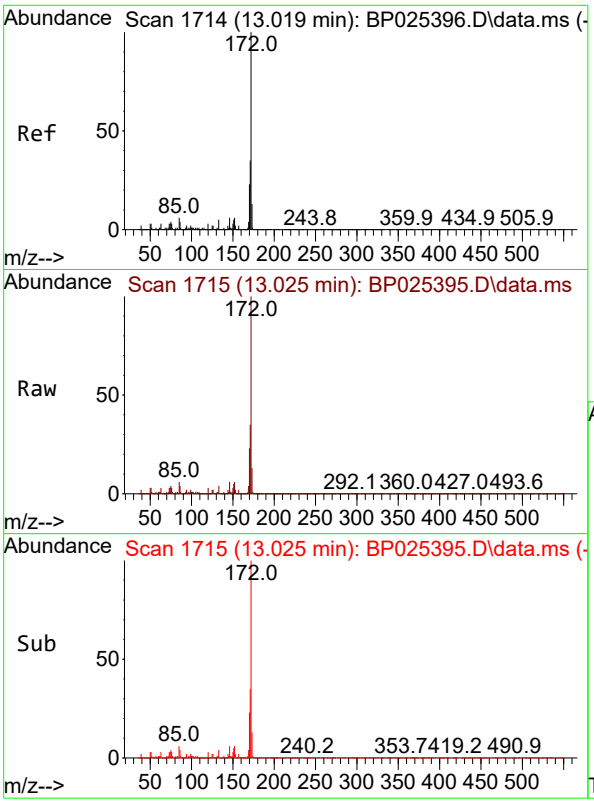


#44
2,4,5-Trichlorophenol
Concen: 19.842 ng
RT: 12.901 min Scan# 1694
Delta R.T. 0.006 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:196 Resp: 169197

Ion	Ratio	Lower	Upper
196	100		
198	96.2	76.2	114.2
97	48.1	41.2	61.8
132	28.5	22.6	34.0

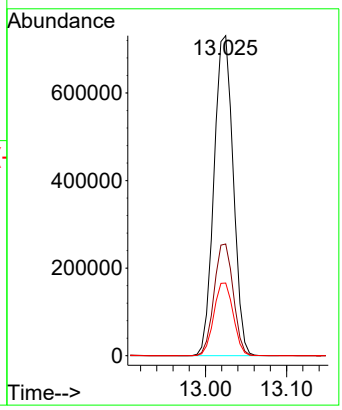




#45
2-Fluorobiphenyl
Concen: 41.205 ng
RT: 13.025 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:172 Resp: 120306

Ion	Ratio	Lower	Upper
172	100		
171	34.9	28.1	42.1
170	22.7	18.6	28.0



Instrument :
BNA_P
ClientSampleId :
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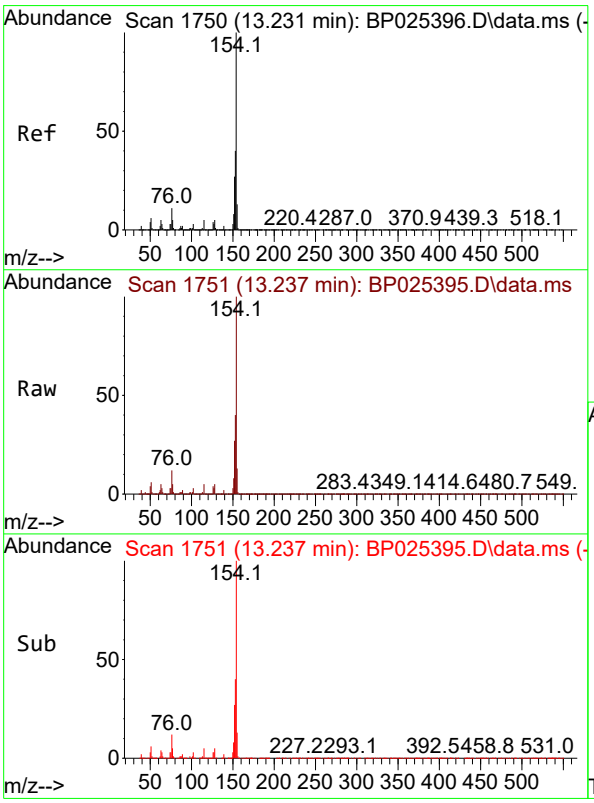
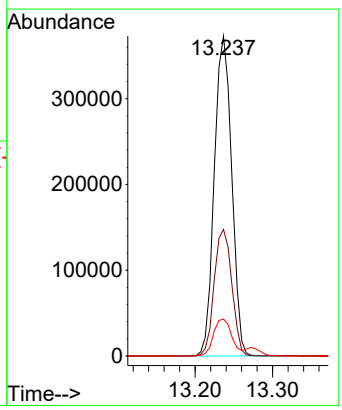
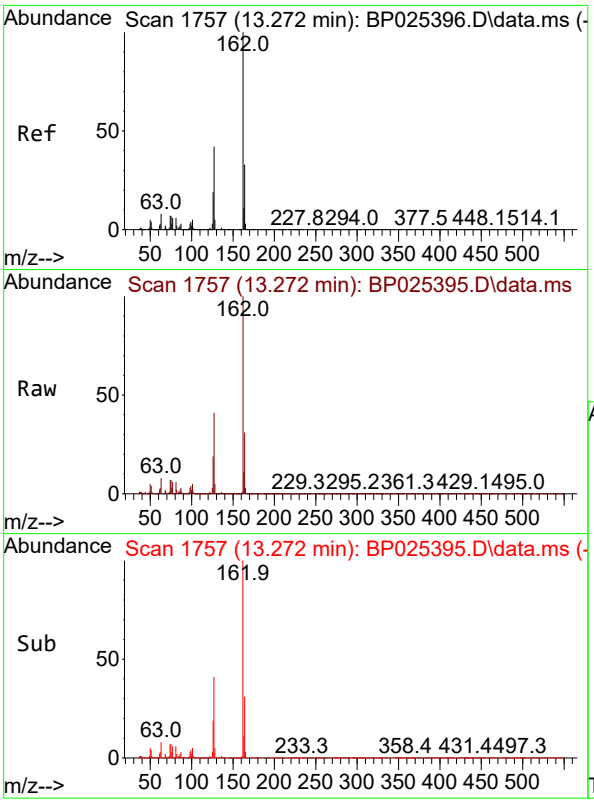


#46
1,1'-Biphenyl
Concen: 20.064 ng
RT: 13.237 min Scan# 1751
Delta R.T. 0.006 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:154 Resp: 581464

Ion	Ratio	Lower	Upper
154	100		
153	39.5	19.5	59.5
76	11.5	0.0	31.1

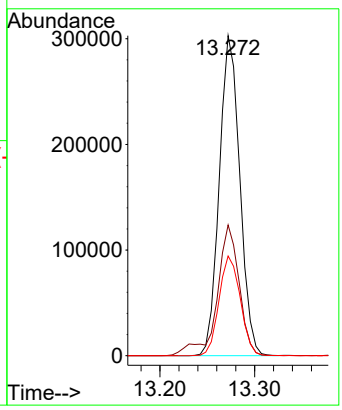




#47
2-Chloronaphthalene
Concen: 20.237 ng
RT: 13.272 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:162 Resp: 45655

Ion	Ratio	Lower	Upper
162	100		
127	40.9	33.4	50.2
164	31.2	26.2	39.2



Instrument :
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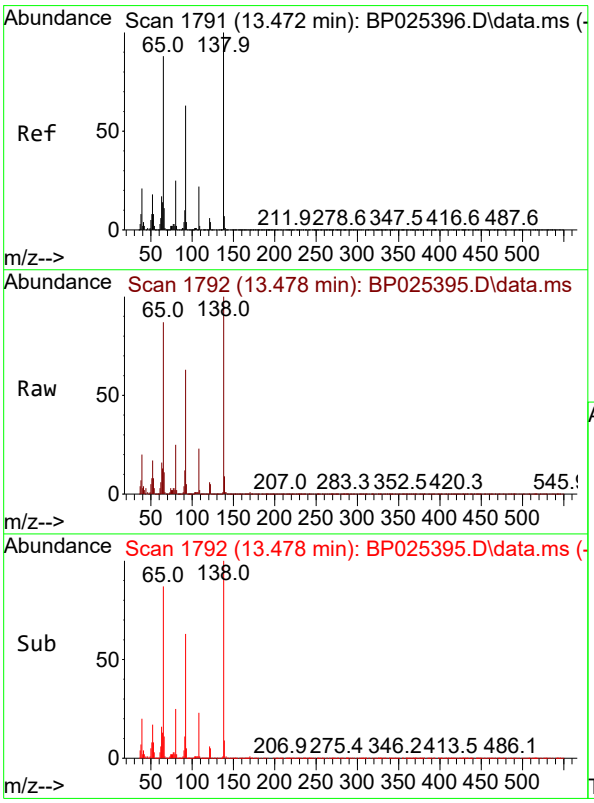
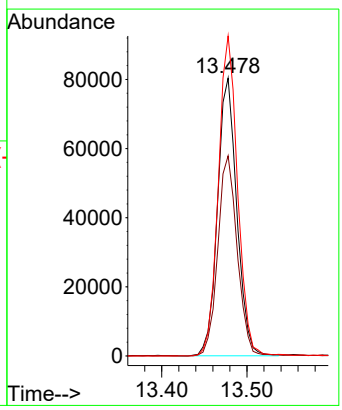
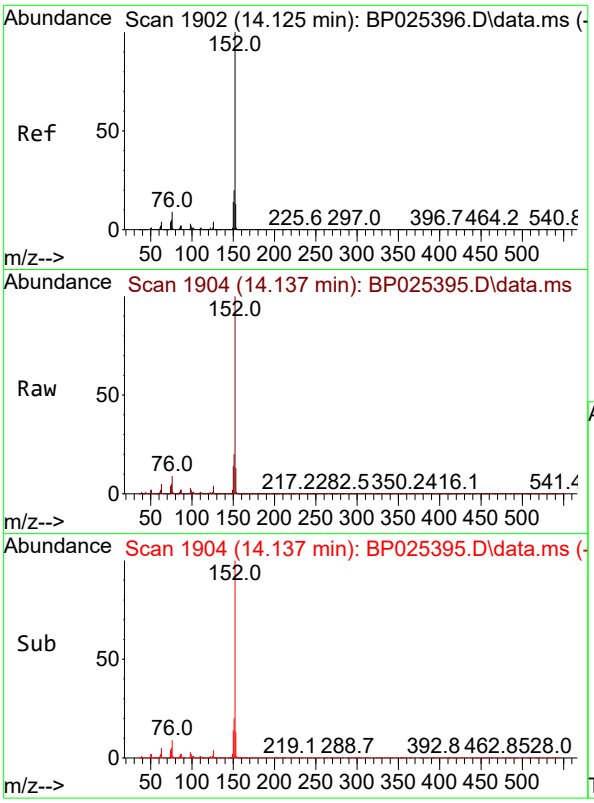


#48
2-Nitroaniline
Concen: 19.233 ng
RT: 13.478 min Scan# 1792
Delta R.T. 0.006 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion: 65 Resp: 126433

Ion	Ratio	Lower	Upper
65	100		
92	72.0	57.6	86.4
138	115.1	91.0	136.6

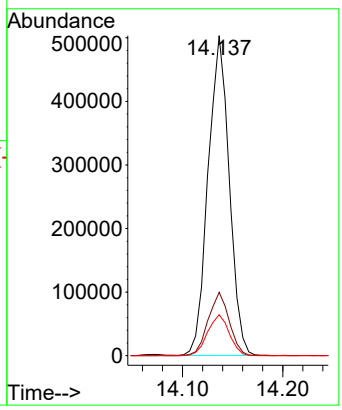




#49
Acenaphthylene
Concen: 19.756 ng
RT: 14.137 min Scan# 1
Delta R.T. 0.012 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:152 Resp: 73752

Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.0	24.0
153	12.8	10.6	15.8



Instrument :
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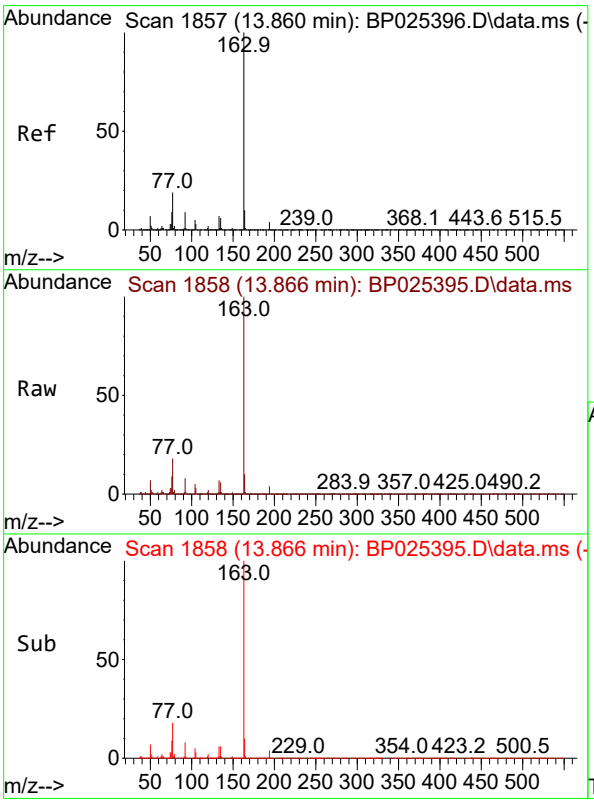
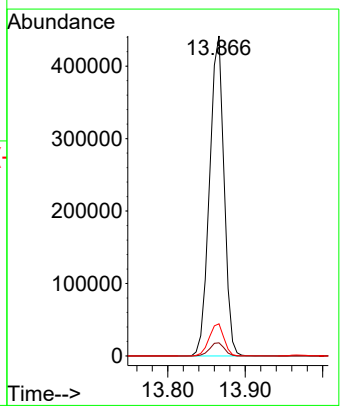
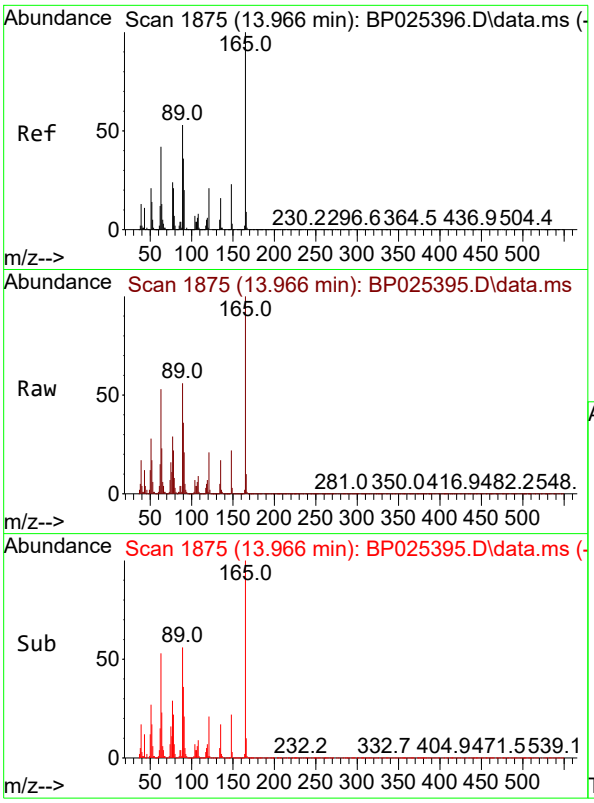


#50
Dimethylphthalate
Concen: 19.632 ng
RT: 13.866 min Scan# 1858
Delta R.T. 0.006 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:163 Resp: 573661

Ion	Ratio	Lower	Upper
163	100		
194	4.1	3.4	5.0
164	10.1	7.9	11.9

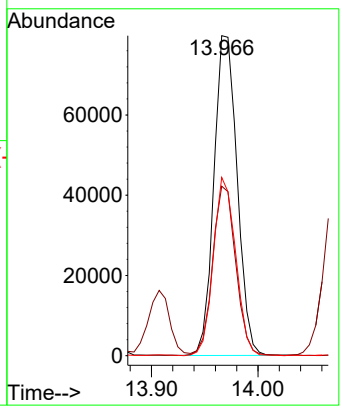




#51
2,6-Dinitrotoluene
Concen: 19.597 ng
RT: 13.966 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:165 Resp: 12069

Ion	Ratio	Lower	Upper
165	100		
63	52.9	40.9	61.3
89	55.7	42.1	63.1



Instrument :
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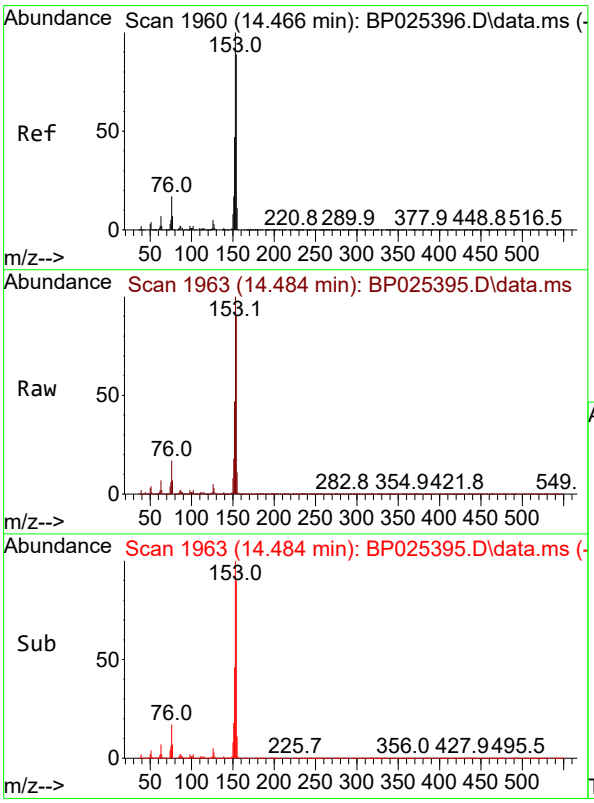
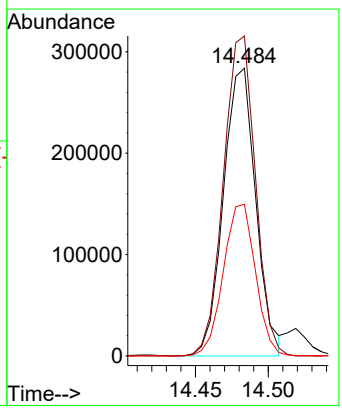
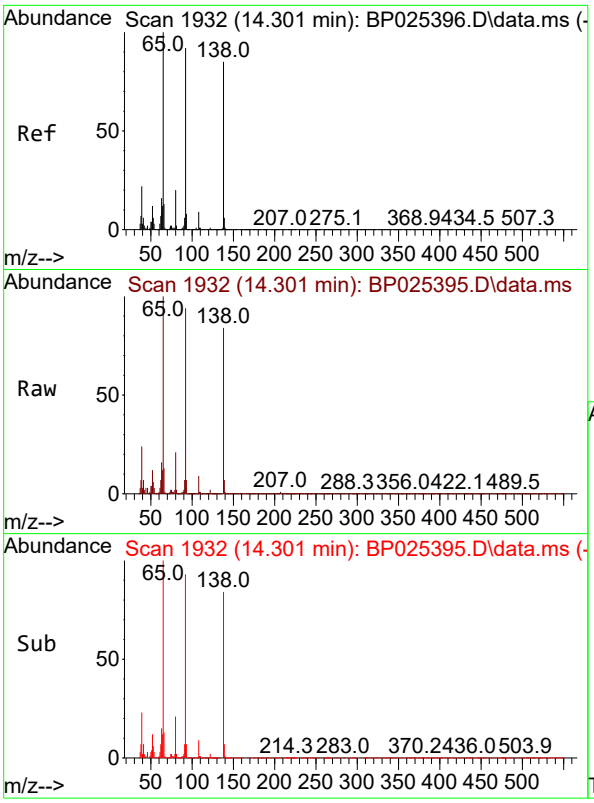


#52
Acenaphthene
Concen: 20.027 ng m
RT: 14.484 min Scan# 1963
Delta R.T. 0.018 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:154 Resp: 438852

Ion	Ratio	Lower	Upper
154	100		
153	111.2	90.2	135.2
152	52.7	42.1	63.1





#53
3-Nitroaniline
Concen: 19.410 ng
RT: 14.301 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:138 Resp: 13450

Ion	Ratio	Lower	Upper
138	100		
108	11.3	8.3	12.5
92	111.4	86.2	129.2

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

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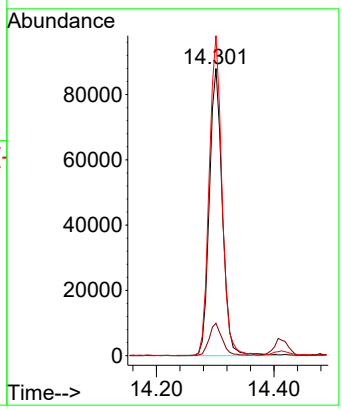
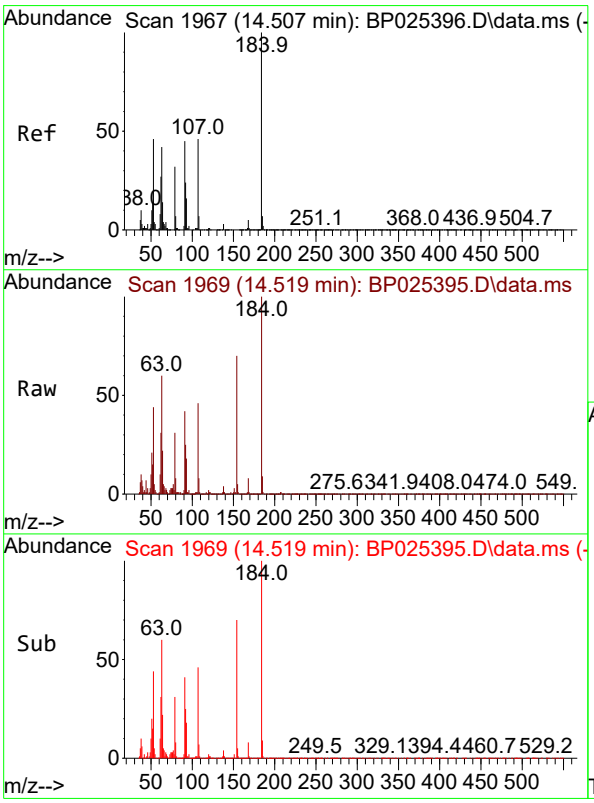
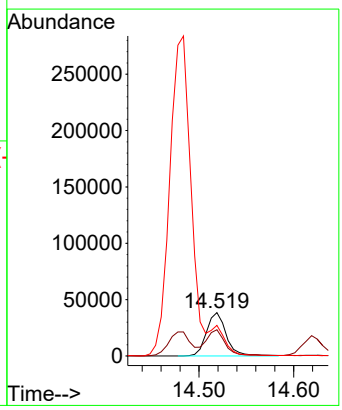


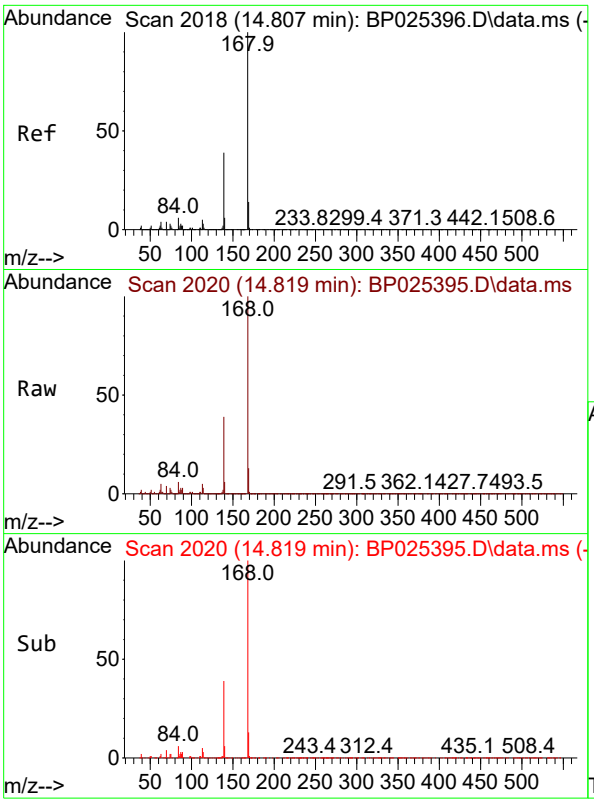


#54
2,4-Dinitrophenol
Concen: 16.939 ng
RT: 14.519 min Scan# 1969
Delta R.T. 0.012 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:184 Resp: 55713

Ion	Ratio	Lower	Upper
184	100		
63	60.4	49.4	74.2
154	70.4	54.6	82.0

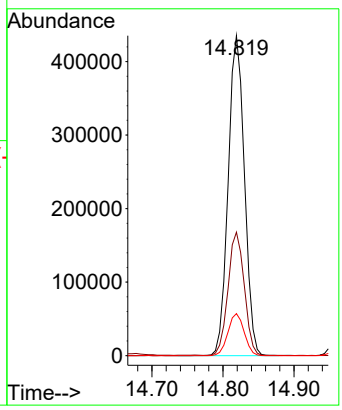




#55
Dibenzofuran
Concen: 20.002 ng
RT: 14.819 min Scan# 2
Delta R.T. 0.012 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:168 Resp: 69296

Ion	Ratio	Lower	Upper
168	100		
139	38.6	31.5	47.3
169	13.1	10.9	16.3



Instrument :
BNA_P
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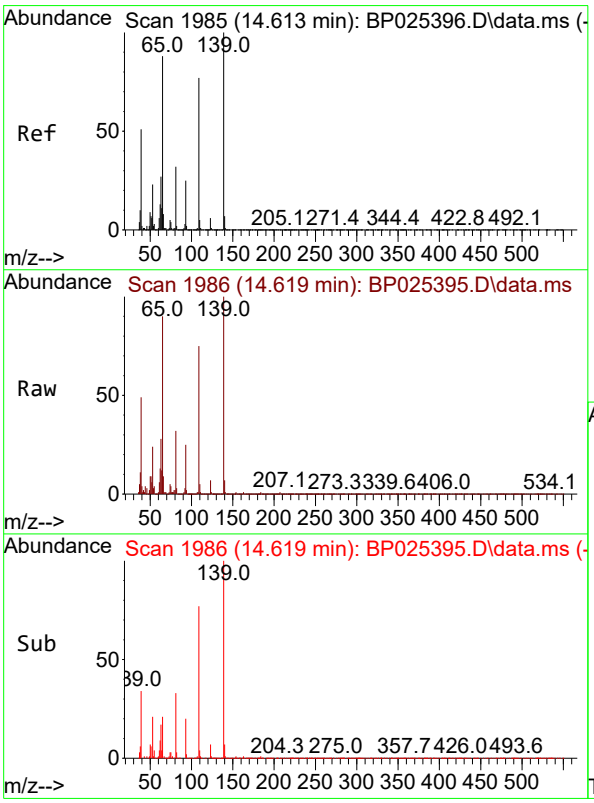
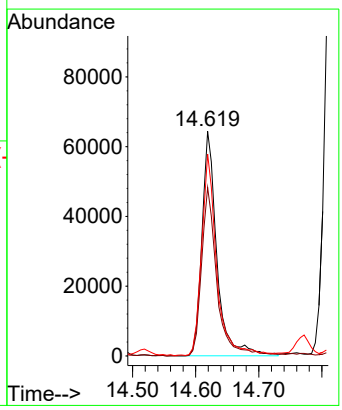
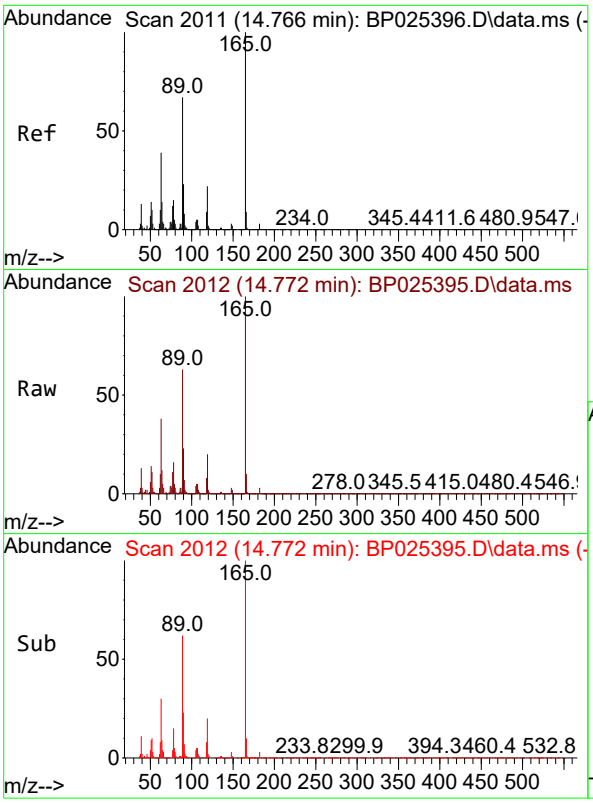


#56
4-Nitrophenol
Concen: 18.578 ng
RT: 14.619 min Scan# 1986
Delta R.T. 0.006 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:139 Resp: 105787

Ion	Ratio	Lower	Upper
139	100		
109	75.0	56.6	96.6
65	89.8	68.2	108.2

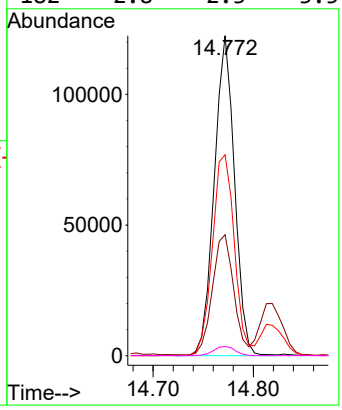




#57
2,4-Dinitrotoluene
Concen: 19.576 ng
RT: 14.772 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:165 Resp: 17202

Ion	Ratio	Lower	Upper
165	100		
63	37.8	31.4	47.2
89	62.8	53.3	79.9
182	2.8	2.3	3.5



Instrument :
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ClientSampleId :
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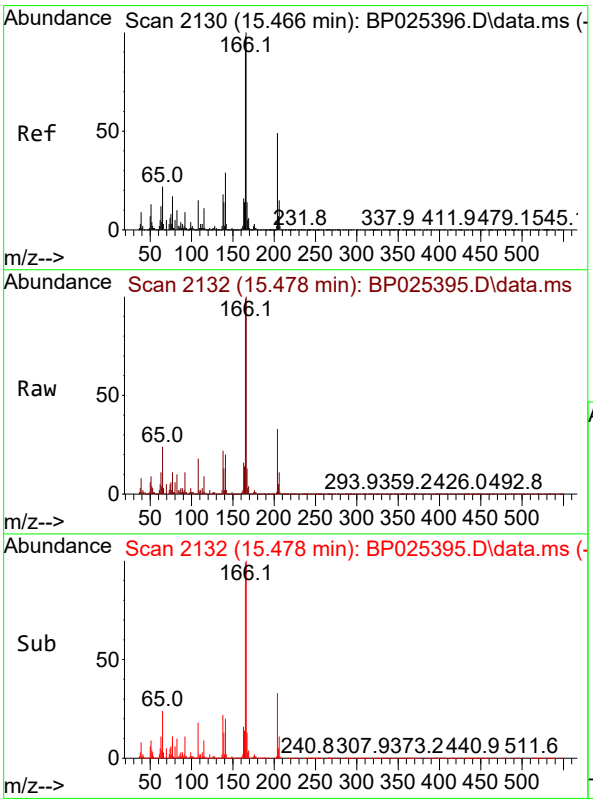
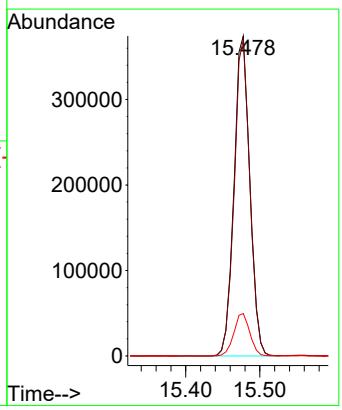
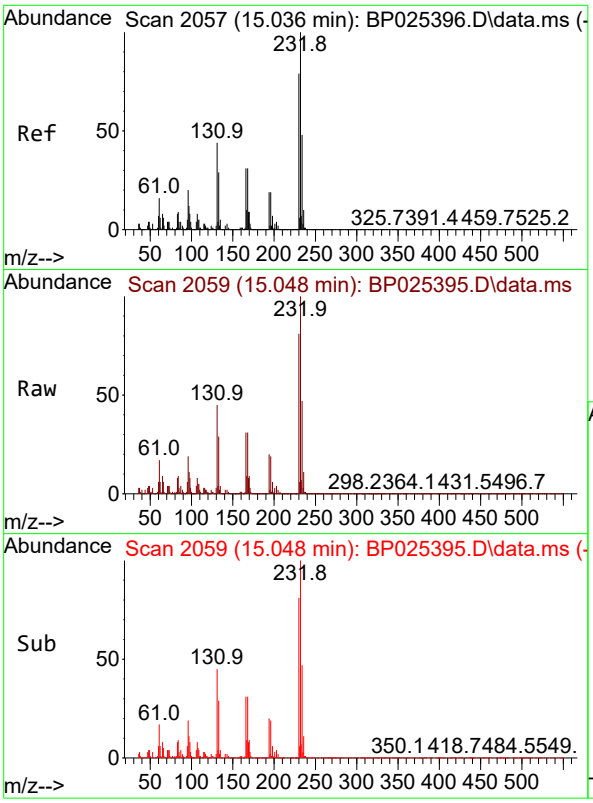


#58
Fluorene
Concen: 20.289 ng
RT: 15.478 min Scan# 2132
Delta R.T. 0.012 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:166 Resp: 554647

Ion	Ratio	Lower	Upper
166	100		
165	98.8	78.8	118.2
167	13.3	11.0	16.4

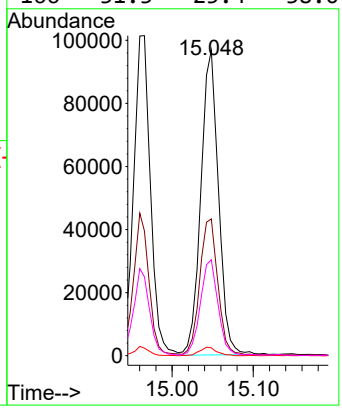




#59
2,3,4,6-Tetrachlorophenol
Concen: 19.381 ng
RT: 15.048 min Scan# 2
Delta R.T. 0.012 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:232 Resp: 14592

Ion	Ratio	Lower	Upper
232	100		
131	45.5	37.0	55.6
130	2.7	1.9	2.9
166	31.3	25.4	38.0



Instrument :
BNA_P
ClientSampleId :
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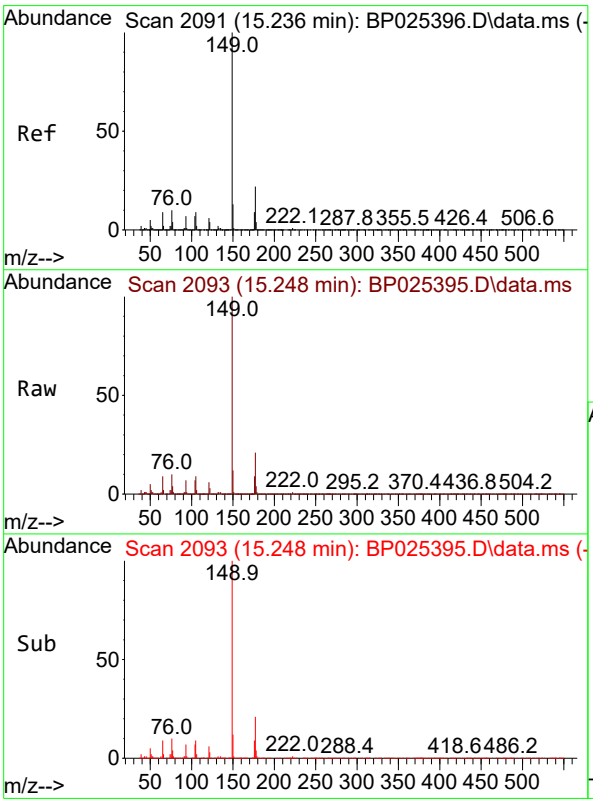
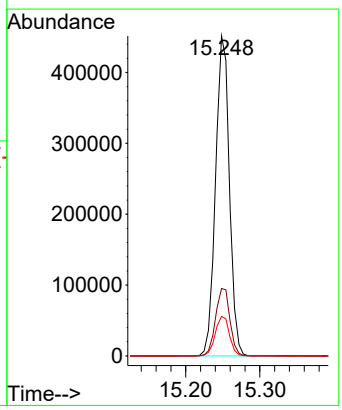
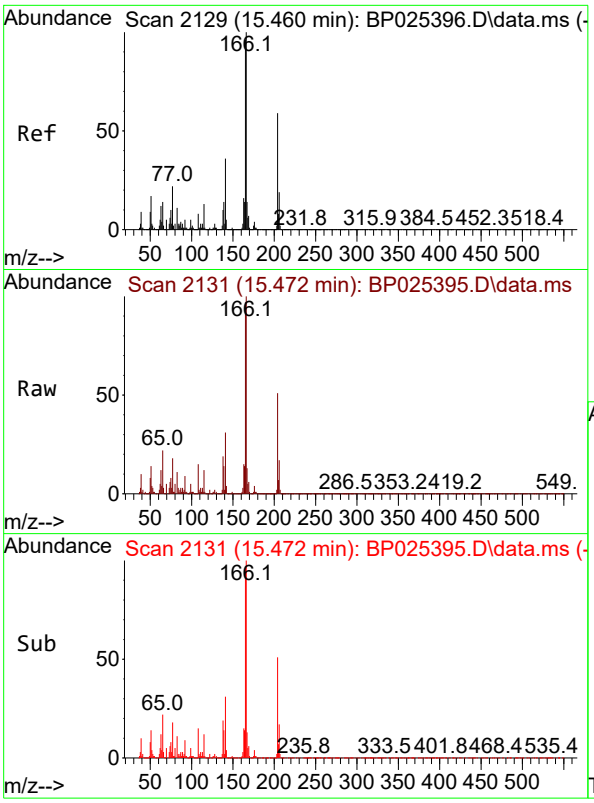


#60
Diethylphthalate
Concen: 19.689 ng
RT: 15.248 min Scan# 2093
Delta R.T. 0.012 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:149 Resp: 584590

Ion	Ratio	Lower	Upper
149	100		
177	21.1	17.3	25.9
150	12.4	10.3	15.5

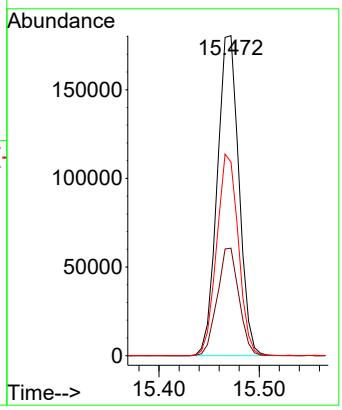




#61
4-Chlorophenyl-phenylether
Concen: 19.929 ng
RT: 15.472 min Scan# 21
Delta R.T. 0.012 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:204 Resp: 27094

Ion	Ratio	Lower	Upper
204	100		
206	33.6	25.8	38.8
141	60.5	49.4	74.2



Instrument :
BNA_P
ClientSampleId :
SSTDICC020

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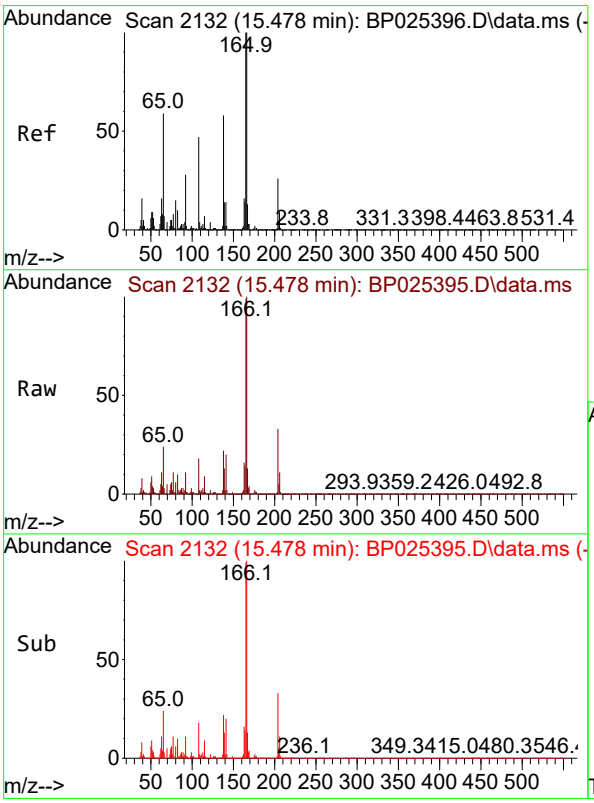
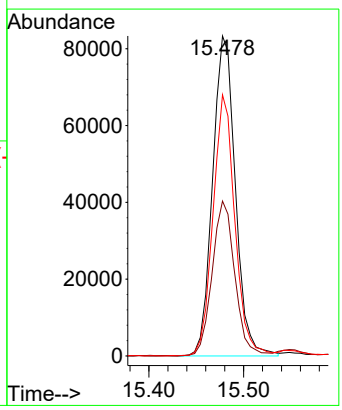
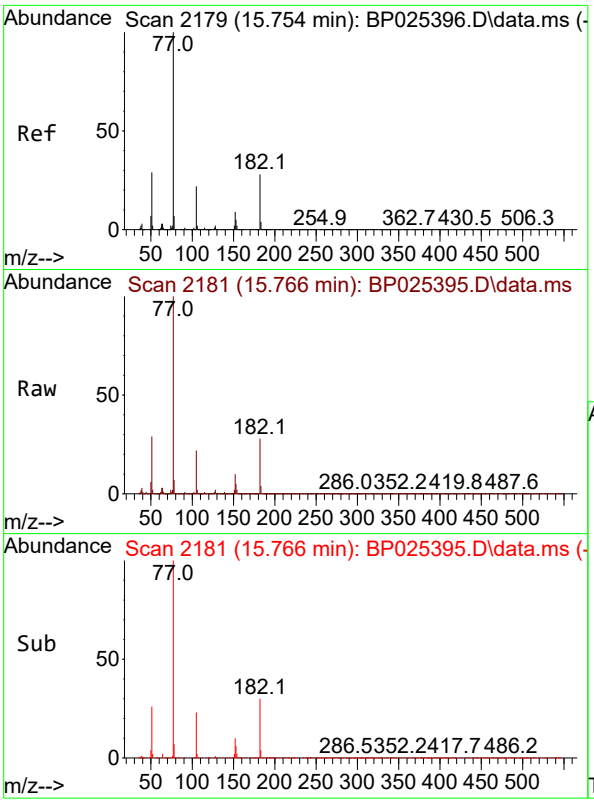


#62
4-Nitroaniline
Concen: 19.595 ng
RT: 15.478 min Scan# 2132
Delta R.T. 0.000 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:138 Resp: 139202

Ion	Ratio	Lower	Upper
138	100		
92	48.4	29.1	69.1
108	81.6	61.5	101.5

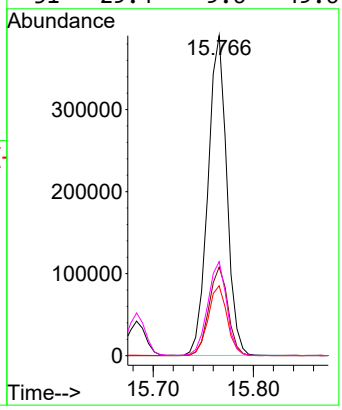




#63
Azobenzene
Concen: 20.004 ng
RT: 15.766 min Scan# 2
Delta R.T. 0.012 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion: 77 Resp: 50856

Ion	Ratio	Lower	Upper
77	100		
182	27.7	7.5	47.5
105	21.9	2.1	42.1
51	29.4	9.6	49.6



Instrument :
BNA_P
ClientSampleId :
SSTDICC020

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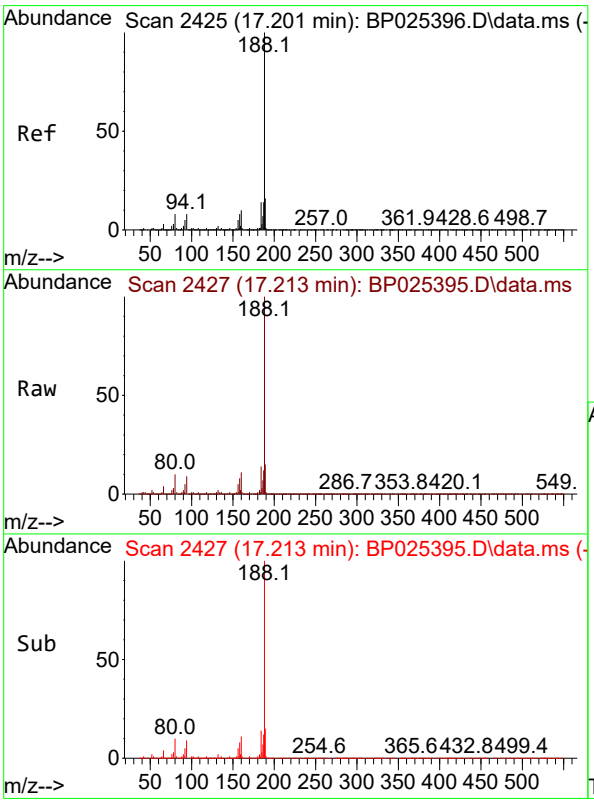
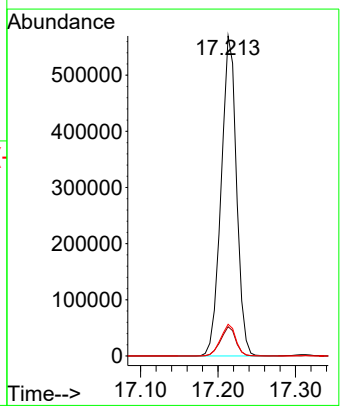
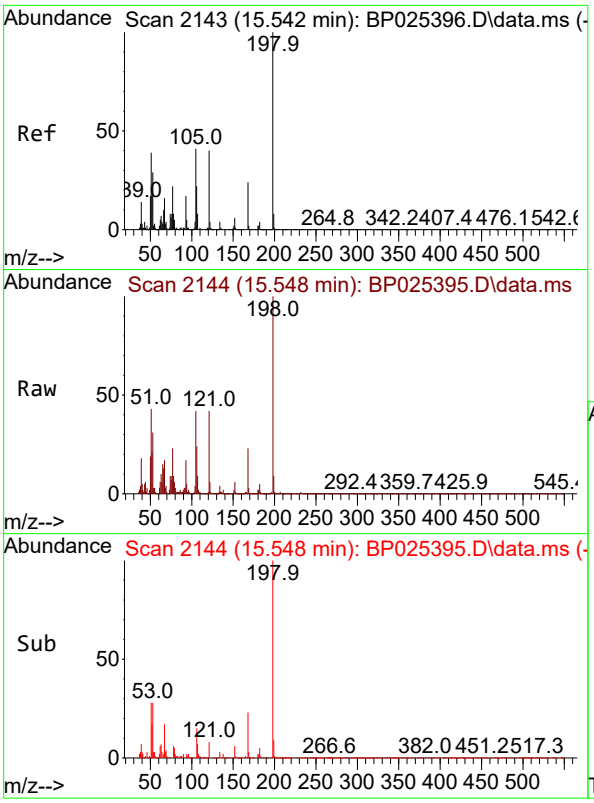


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.213 min Scan# 2427
Delta R.T. 0.012 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:188 Resp: 785736

Ion	Ratio	Lower	Upper
188	100		
94	9.1	6.6	10.0
80	9.9	6.7	10.1





#65
4,6-Dinitro-2-methylphenol
Concen: 18.169 ng
RT: 15.548 min Scan# 21
Delta R.T. 0.006 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:198 Resp: 8899

Ion	Ratio	Lower	Upper
198	100		
51	42.6	19.6	59.6
105	42.2	20.9	60.9

Instrument :
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ClientSampleId :
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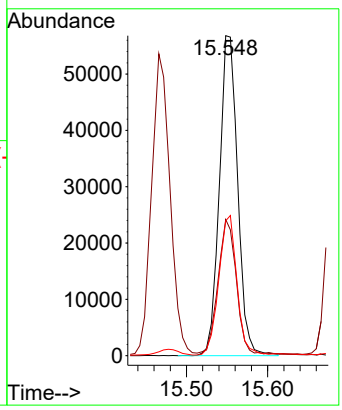
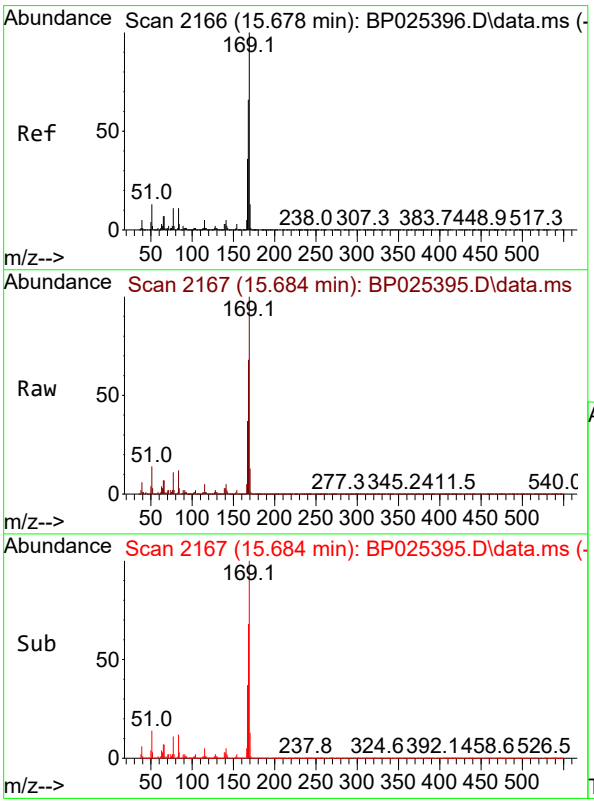
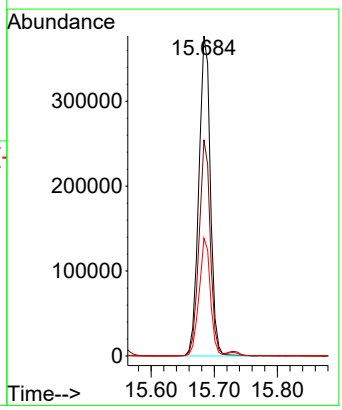


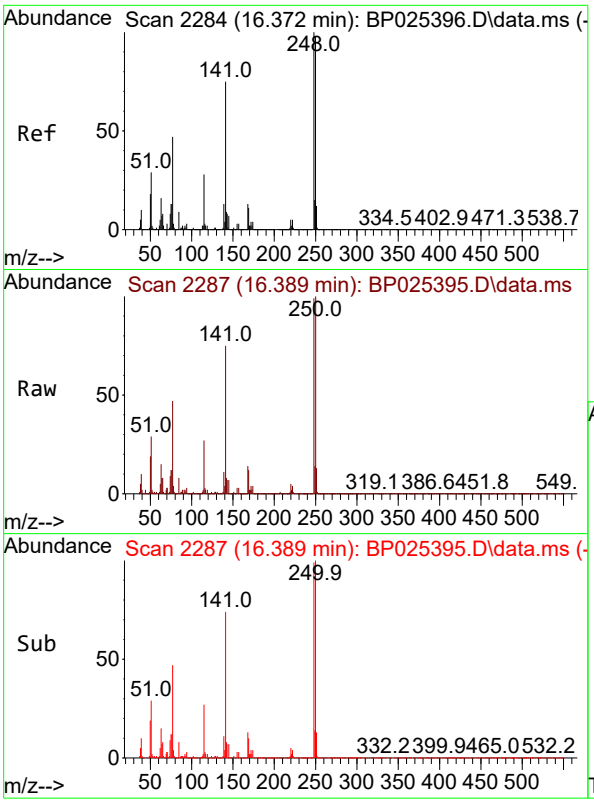


#66
n-Nitrosodiphenylamine
Concen: 19.911 ng
RT: 15.684 min Scan# 2167
Delta R.T. 0.006 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:169 Resp: 477080

Ion	Ratio	Lower	Upper
169	100		
168	67.5	53.2	79.8
167	36.8	28.7	43.1

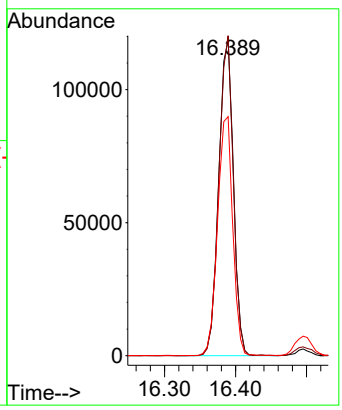




#67
4-Bromophenyl-phenylether
Concen: 19.758 ng
RT: 16.389 min Scan# 2
Delta R.T. 0.018 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:248 Resp: 17073

Ion	Ratio	Lower	Upper
248	100		
250	101.4	78.2	117.2
141	75.7	59.6	89.4



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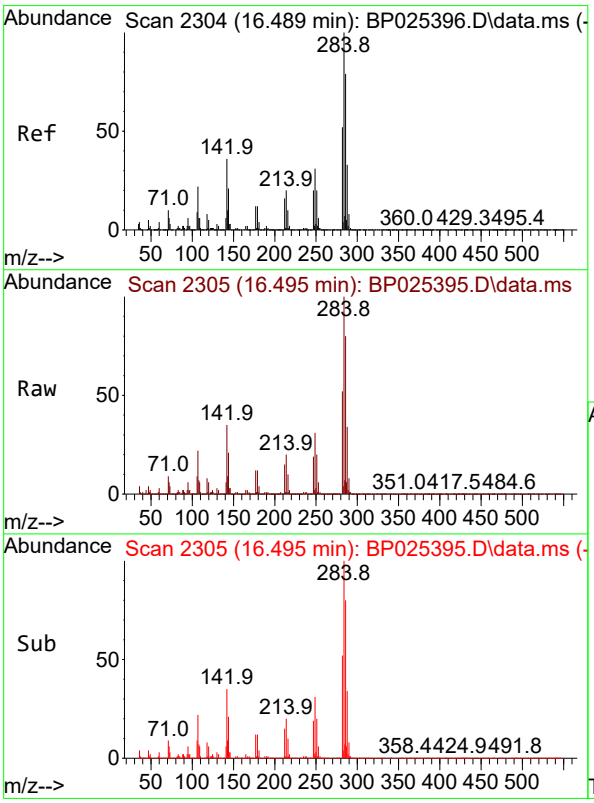
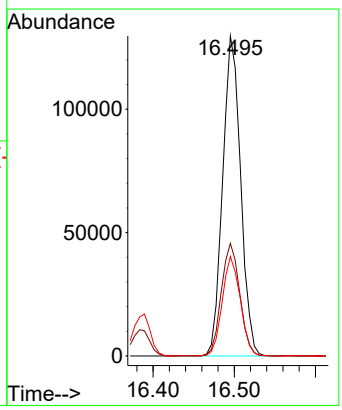
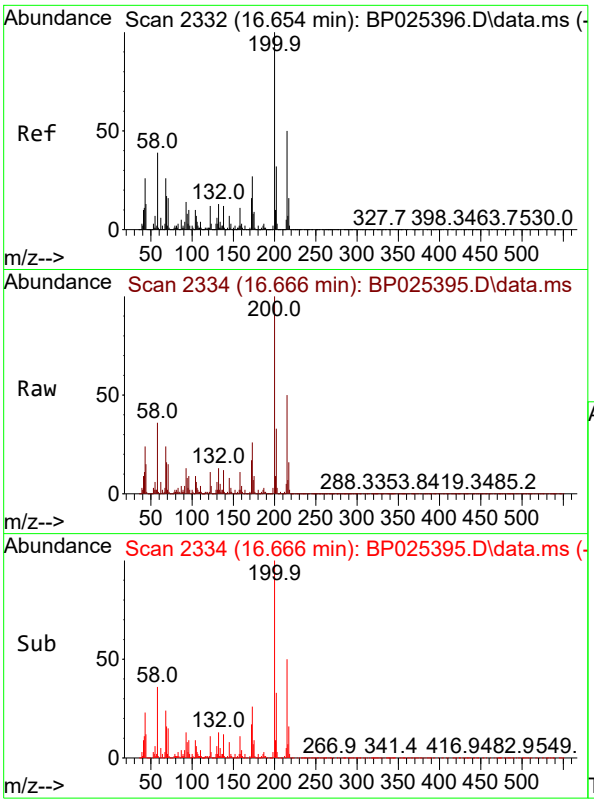


#68
Hexachlorobenzene
Concen: 19.906 ng
RT: 16.495 min Scan# 2305
Delta R.T. 0.006 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:284 Resp: 199410

Ion	Ratio	Lower	Upper
284	100		
142	35.2	29.1	43.7
249	31.0	25.0	37.4

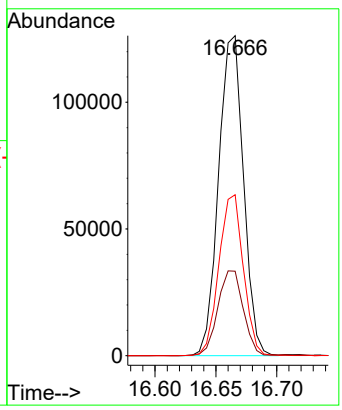




#69
Atrazine
Concen: 20.006 ng
RT: 16.666 min Scan# 2
Delta R.T. 0.012 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:200 Resp: 17951

Ion	Ratio	Lower	Upper
200	100		
173	26.4	6.7	46.7
215	50.3	29.7	69.7



Instrument :
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ClientSampleId :
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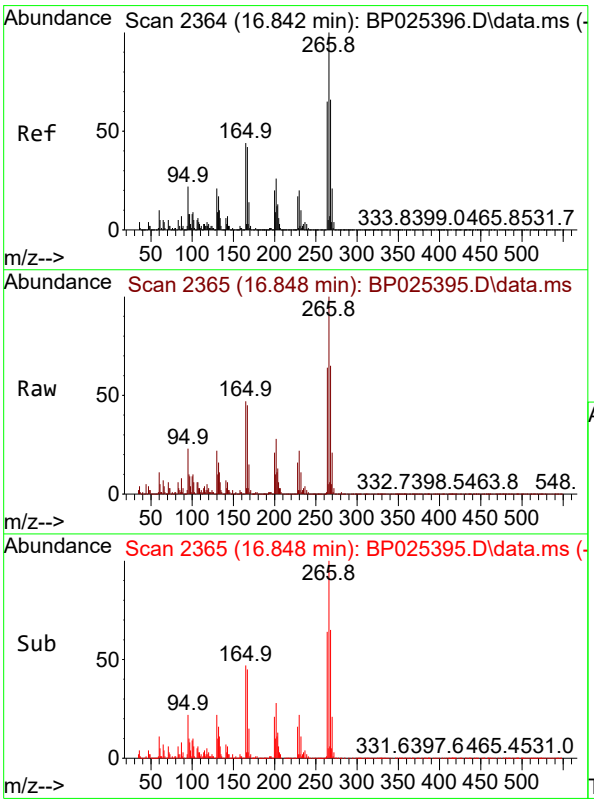
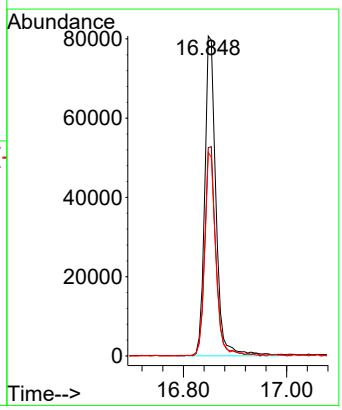
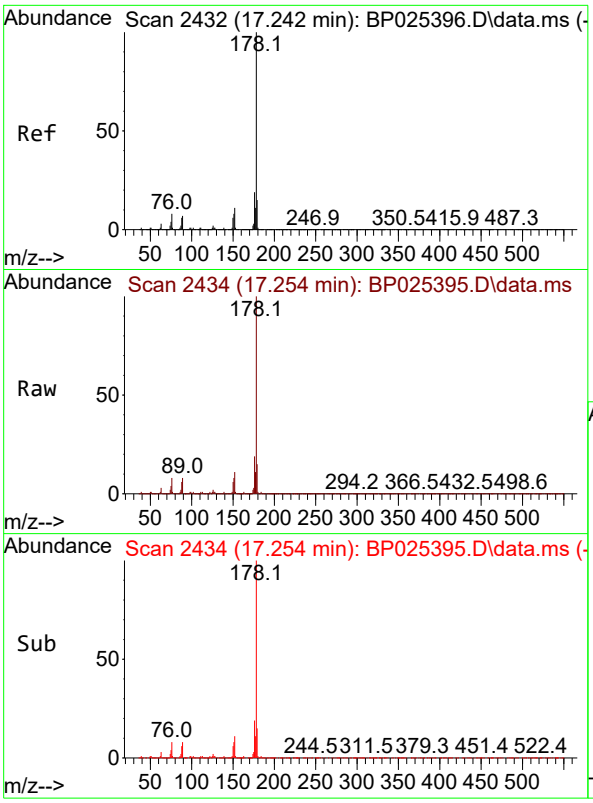


#70
Pentachlorophenol
Concen: 19.128 ng
RT: 16.848 min Scan# 2365
Delta R.T. 0.006 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:266 Resp: 120958

Ion	Ratio	Lower	Upper
266	100		
268	65.1	52.6	79.0
264	63.6	52.0	78.0

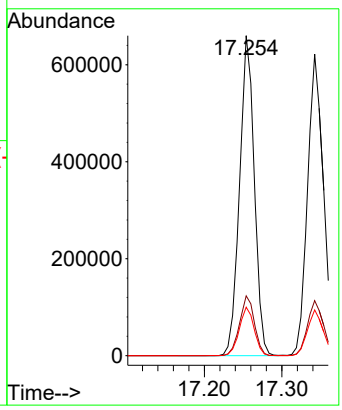




#71
Phenanthrene
Concen: 20.223 ng
RT: 17.254 min Scan# 24
Delta R.T. 0.012 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:178 Resp: 87289

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.5	23.3
179	15.2	12.2	18.4



Instrument :
BNA_P
ClientSampleId :
SSTDICC020

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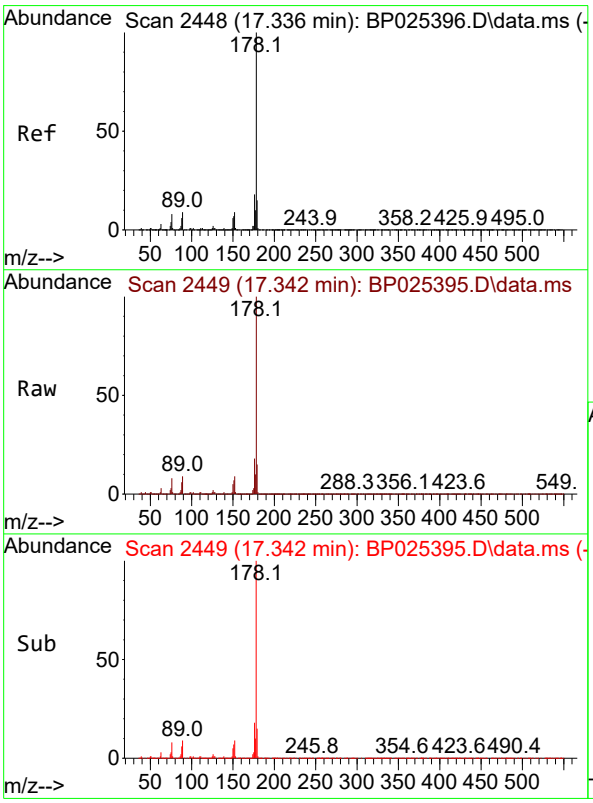
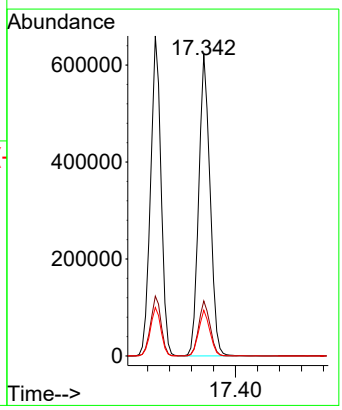
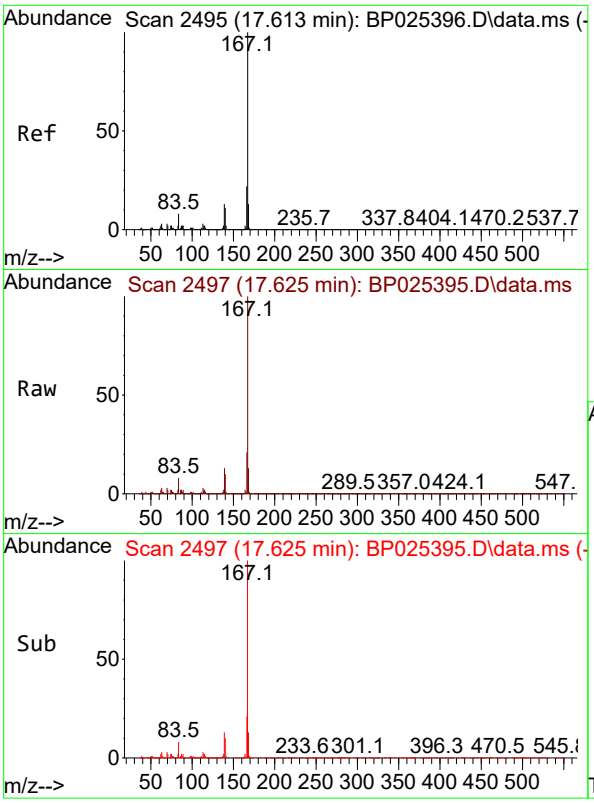


#72
Anthracene
Concen: 20.198 ng
RT: 17.342 min Scan# 2449
Delta R.T. 0.006 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:178 Resp: 890292

Ion	Ratio	Lower	Upper
178	100		
176	18.3	14.7	22.1
179	15.2	12.2	18.2

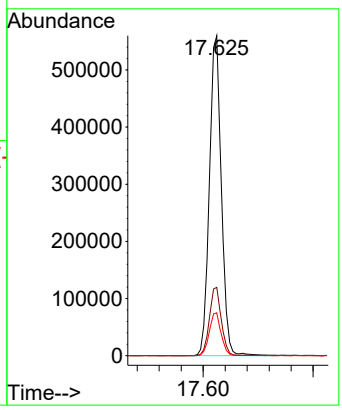




#73
Carbazole
Concen: 20.328 ng
RT: 17.625 min Scan# 24
Delta R.T. 0.012 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:167 Resp: 84397

Ion	Ratio	Lower	Upper
167	100		
166	21.4	17.5	26.3
139	13.4	10.6	16.0



Instrument :
BNA_P
ClientSampleId :
SSTDICC020

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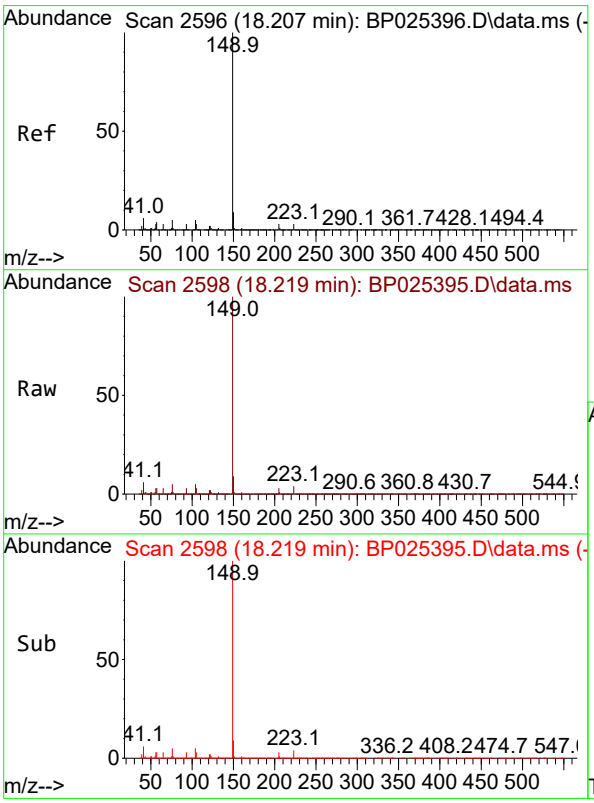
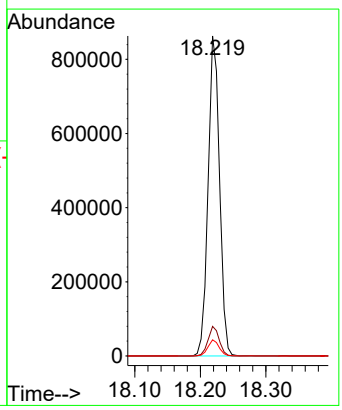
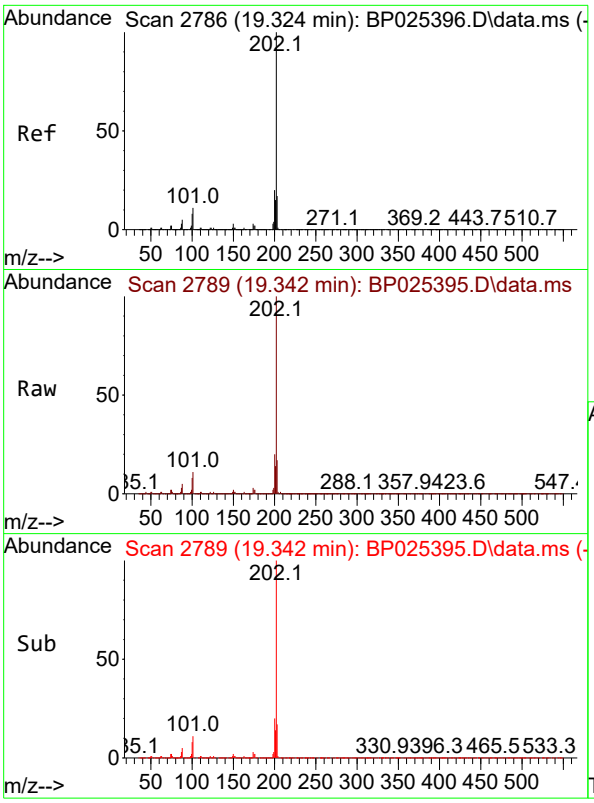


#74
Di-n-butylphthalate
Concen: 20.491 ng
RT: 18.219 min Scan# 2598
Delta R.T. 0.012 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:149 Resp: 1046709

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.4	11.0
104	5.1	4.2	6.2

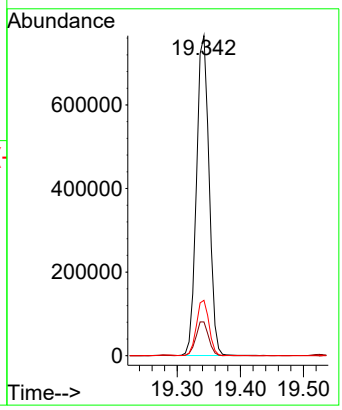




#75
Fluoranthene
Concen: 20.567 ng
RT: 19.342 min Scan# 2
Delta R.T. 0.018 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:202 Resp: 105891

Ion	Ratio	Lower	Upper
202	100		
101	10.5	0.0	31.1
203	17.3	0.0	37.3



Instrument :
BNA_P
ClientSampleId :
SSTDICC020

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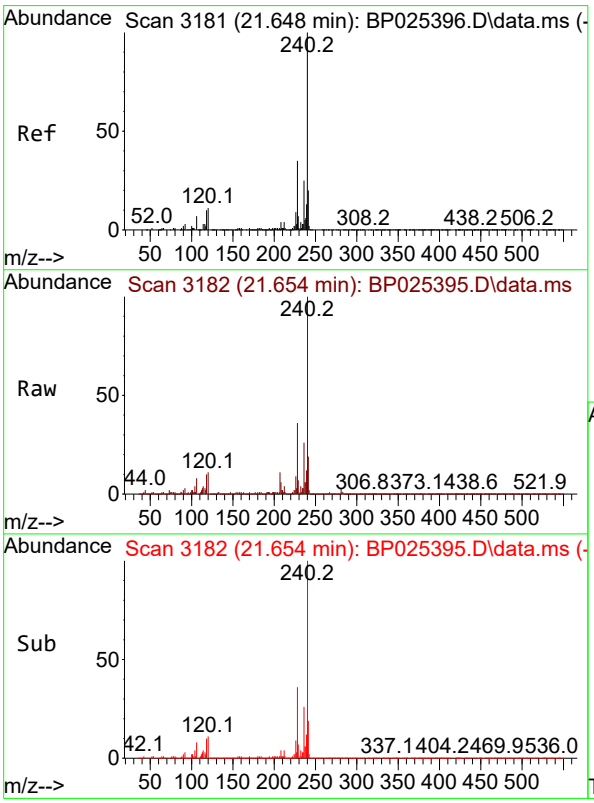
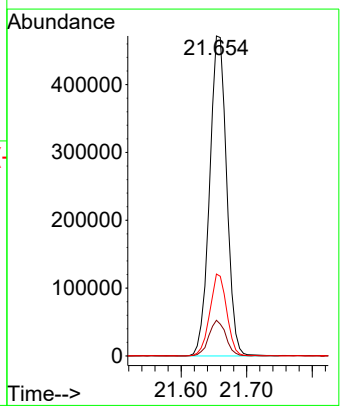
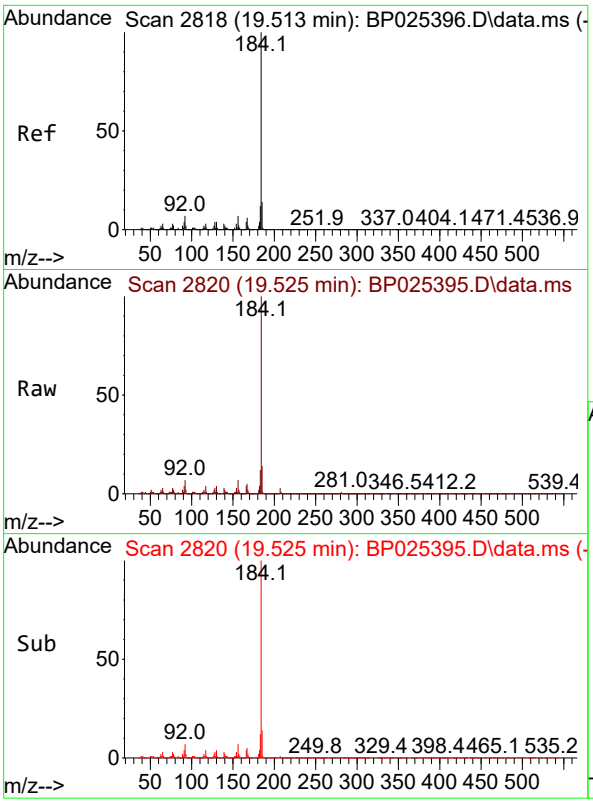


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.654 min Scan# 3182
Delta R.T. 0.006 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:240 Resp: 852065

Ion	Ratio	Lower	Upper
240	100		
120	11.2	8.9	13.3
236	25.6	19.8	29.8

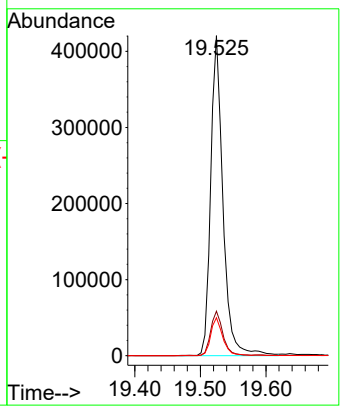




#77
Benzidine
Concen: 18.799 ng
RT: 19.525 min Scan# 2
Delta R.T. 0.012 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:184 Resp: 54664

Ion	Ratio	Lower	Upper
184	100		
185	13.9	11.5	17.3
183	11.9	9.4	14.2



Instrument :
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ClientSampleId :
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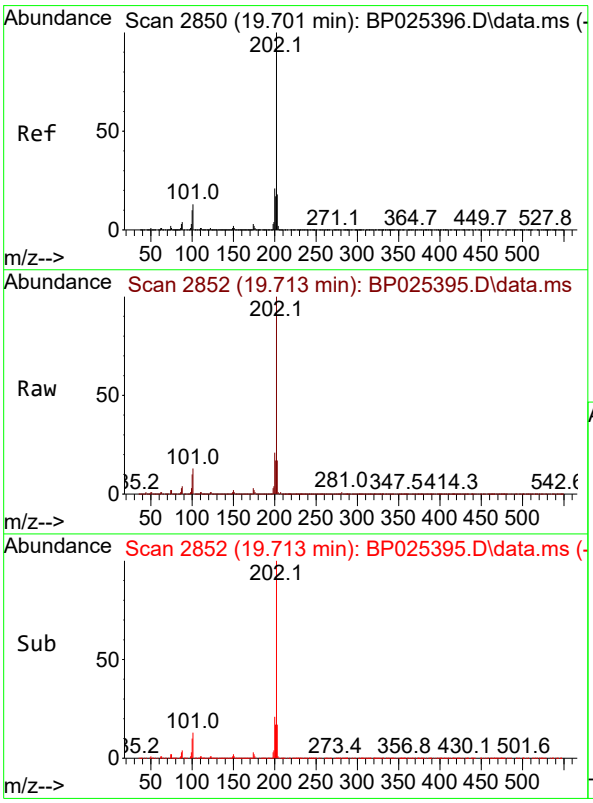
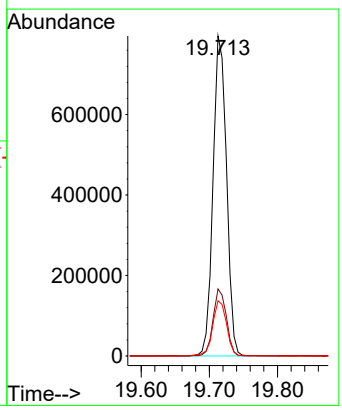
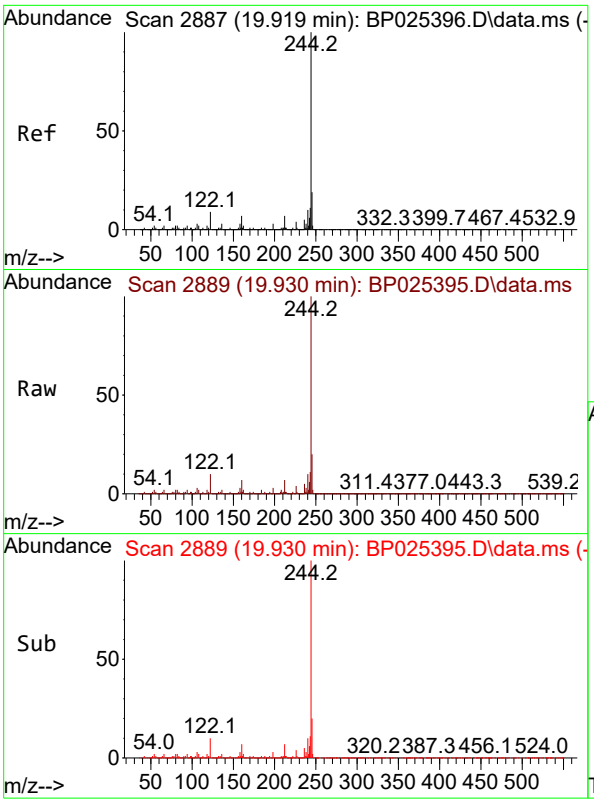


#78
Pyrene
Concen: 19.807 ng
RT: 19.713 min Scan# 2852
Delta R.T. 0.012 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:202 Resp: 1096965

Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.9	25.3
203	17.3	14.2	21.2





#79
Terphenyl-d14
Concen: 40.152 ng
RT: 19.930 min Scan# 2
Delta R.T. 0.012 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:244 Resp: 186995

Ion	Ratio	Lower	Upper
244	100		
212	7.1	5.8	8.6
122	9.9	7.4	11.2

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

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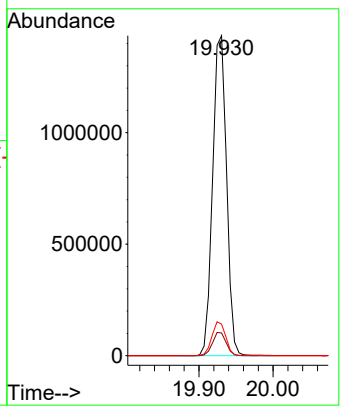
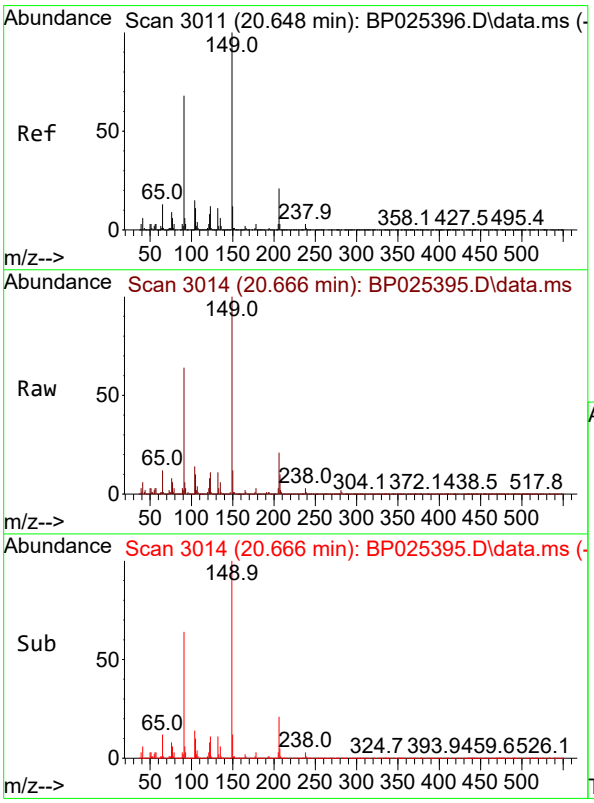
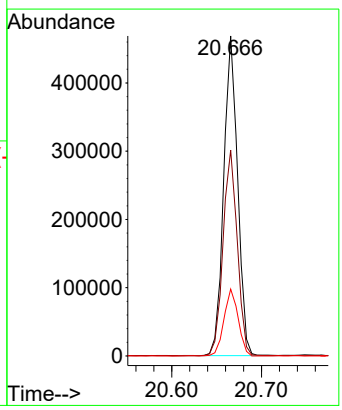


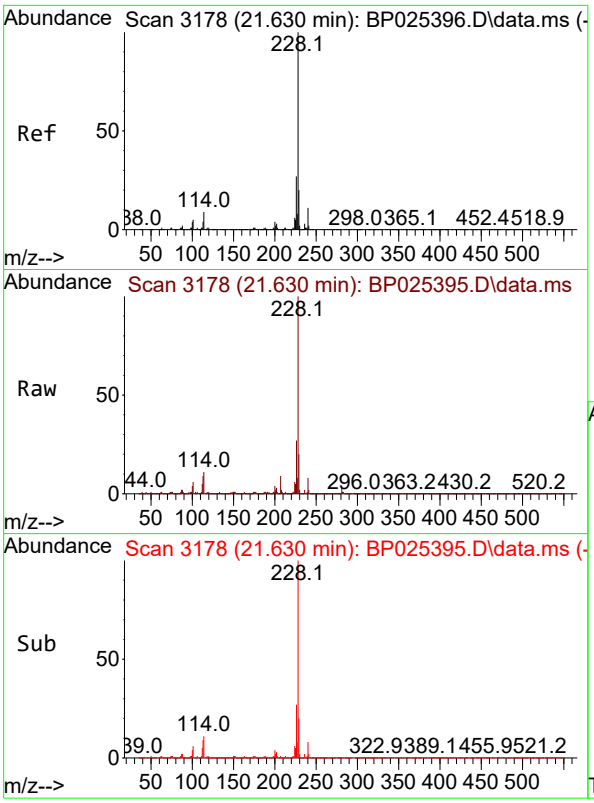


#80
Butylbenzylphthalate
Concen: 20.081 ng
RT: 20.666 min Scan# 3014
Delta R.T. 0.018 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:149 Resp: 504019

Ion	Ratio	Lower	Upper
149	100		
91	64.4	54.2	81.2
206	20.9	16.6	24.8

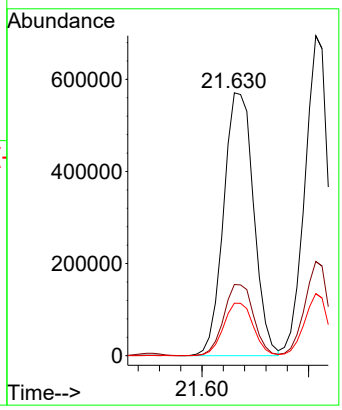




#81
Benzo(a)anthracene
Concen: 19.906 ng
RT: 21.630 min Scan# 3
Delta R.T. 0.000 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:228 Resp: 111859

Ion	Ratio	Lower	Upper
228	100		
226	27.1	21.7	32.5
229	19.9	15.6	23.4



Instrument :
BNA_P
ClientSampleId :
SSTDICC020

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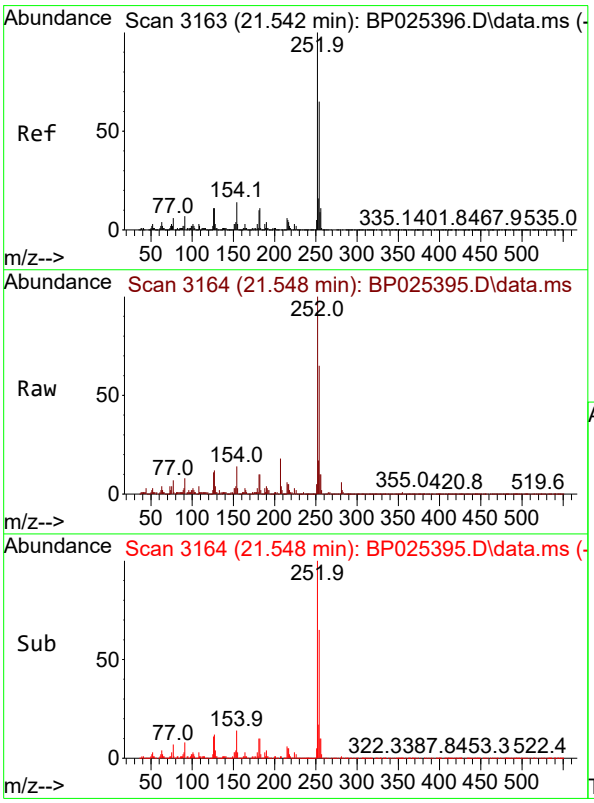
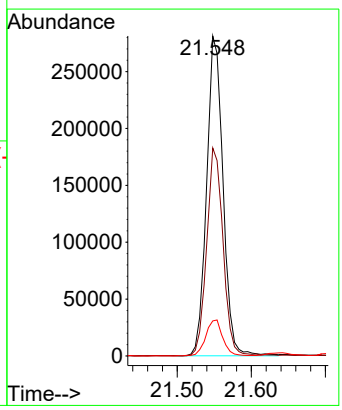
Supervised By :Jagrut Upadhyay 08/15/2025

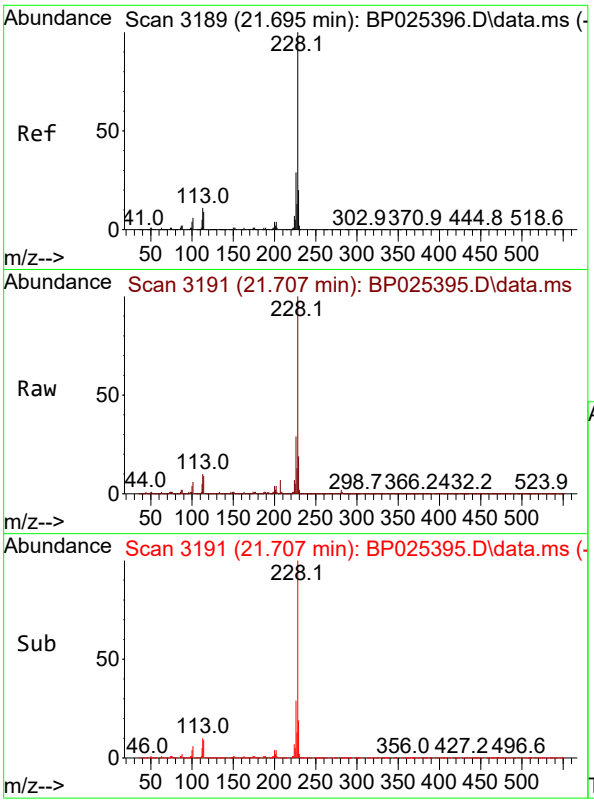


#82
3,3'-Dichlorobenzidine
Concen: 20.399 ng
RT: 21.548 min Scan# 3164
Delta R.T. 0.006 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:252 Resp: 432075

Ion	Ratio	Lower	Upper
252	100		
254	65.0	51.8	77.6
126	10.9	9.1	13.7

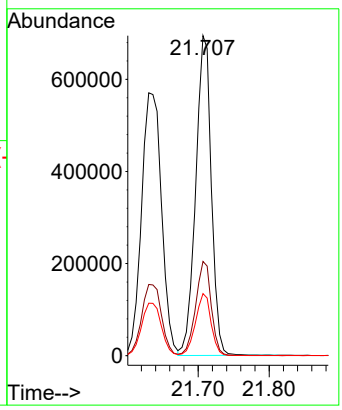




#83
Chrysene
Concen: 20.216 ng
RT: 21.707 min Scan# 3
Delta R.T. 0.012 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:228 Resp: 106389

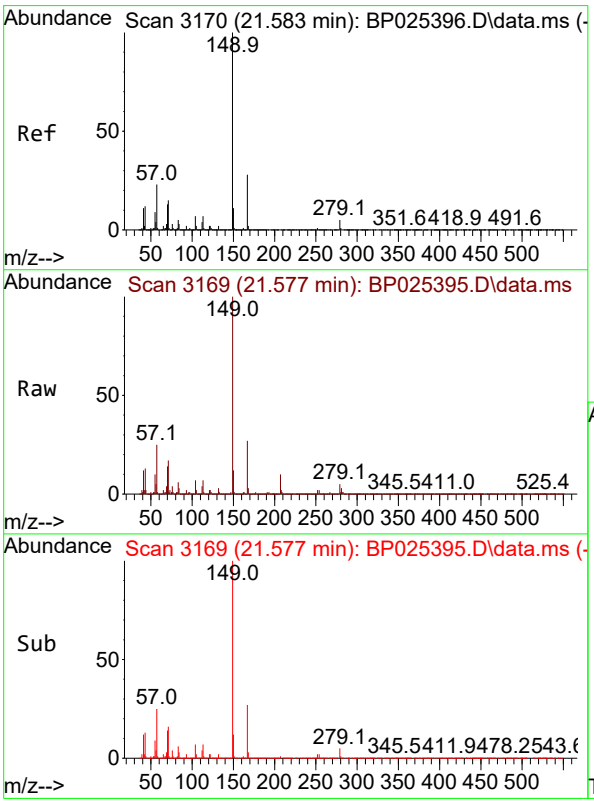
Ion	Ratio	Lower	Upper
228	100		
226	29.4	23.2	34.8
229	19.4	15.6	23.4



Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

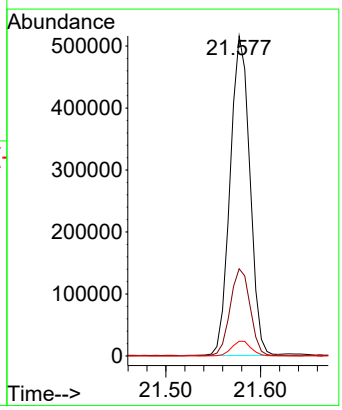
Reviewed By :Rahul Chavli 08/15/2025
Supervised By :Jagrut Upadhyay 08/15/2025

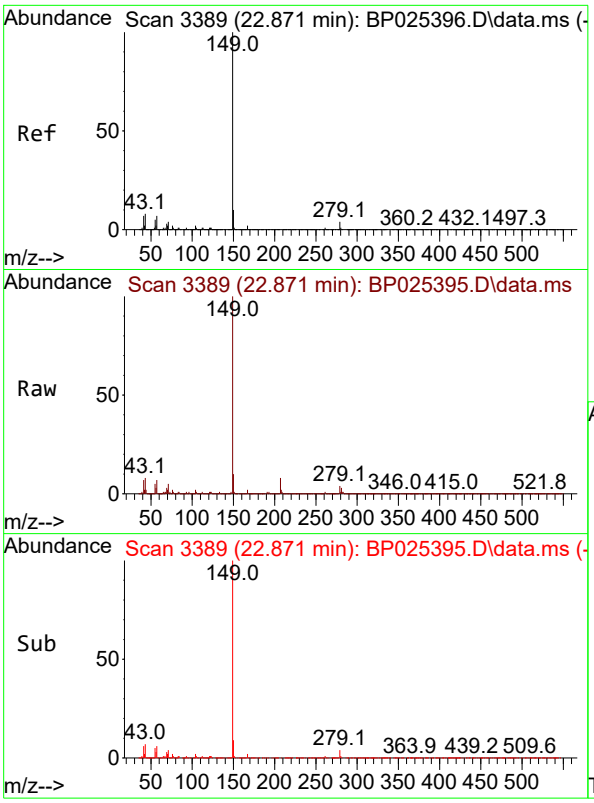


#84
Bis(2-ethylhexyl)phthalate
Concen: 20.155 ng
RT: 21.577 min Scan# 3169
Delta R.T. -0.006 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:149 Resp: 744704

Ion	Ratio	Lower	Upper
149	100		
167	27.3	22.1	33.1
279	4.6	3.8	5.6

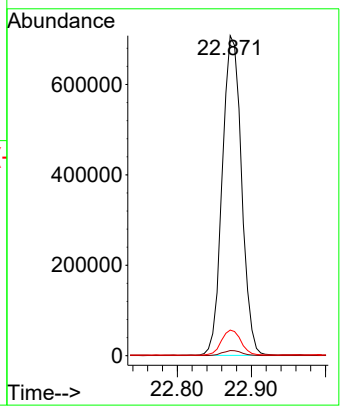




#85
Di-n-octyl phthalate
Concen: 20.091 ng
RT: 22.871 min Scan# 3
Delta R.T. 0.000 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:149 Resp: 127679

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	7.9	6.3	9.5



Instrument :
BNA_P
ClientSampleId :
SSTDICC020

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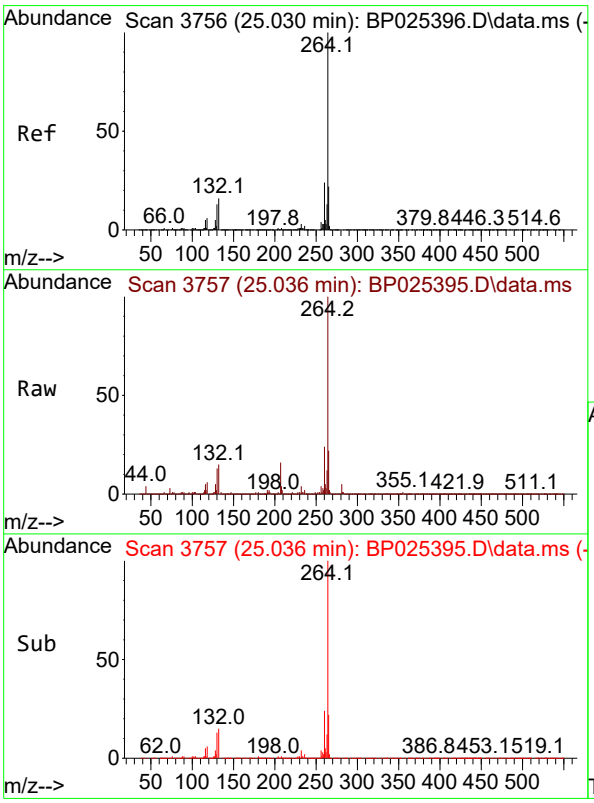
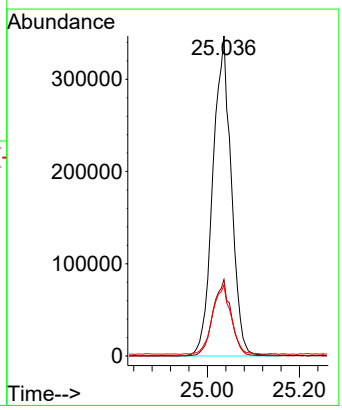
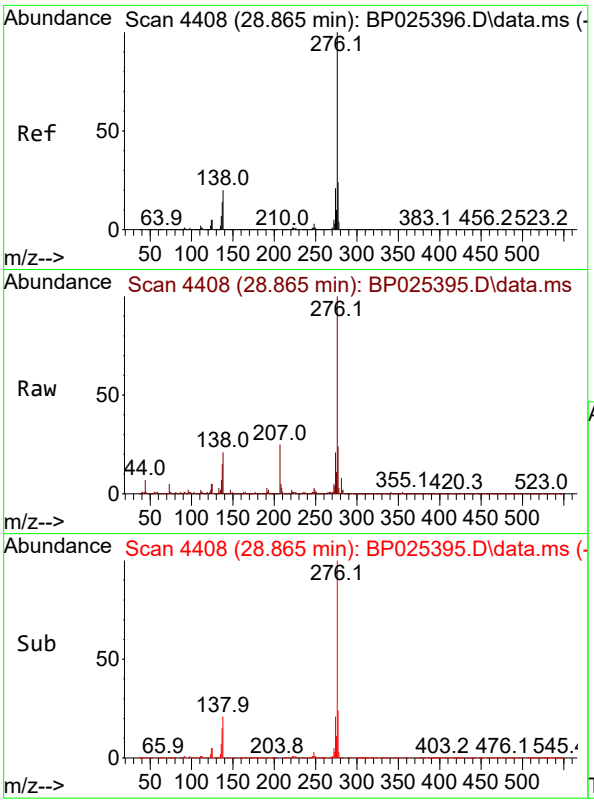


#86
Perylene-d12
Concen: 20.000 ng
RT: 25.036 min Scan# 3757
Delta R.T. 0.006 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:264 Resp: 958651

Ion	Ratio	Lower	Upper
264	100		
260	23.8	19.3	28.9
265	22.2	17.4	26.0

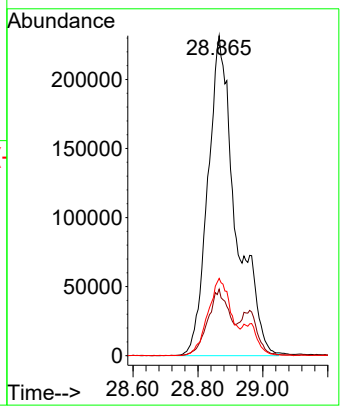




#87
Indeno(1,2,3-cd)pyrene
Concen: 19.627 ng m
RT: 28.865 min Scan# 4
Delta R.T. 0.000 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:276 Resp: 138033

Ion	Ratio	Lower	Upper
276	100		
138	16.2	12.9	19.3
277	20.1	17.0	25.6



Instrument :
BNA_P
ClientSampleId :
SSTDICC020

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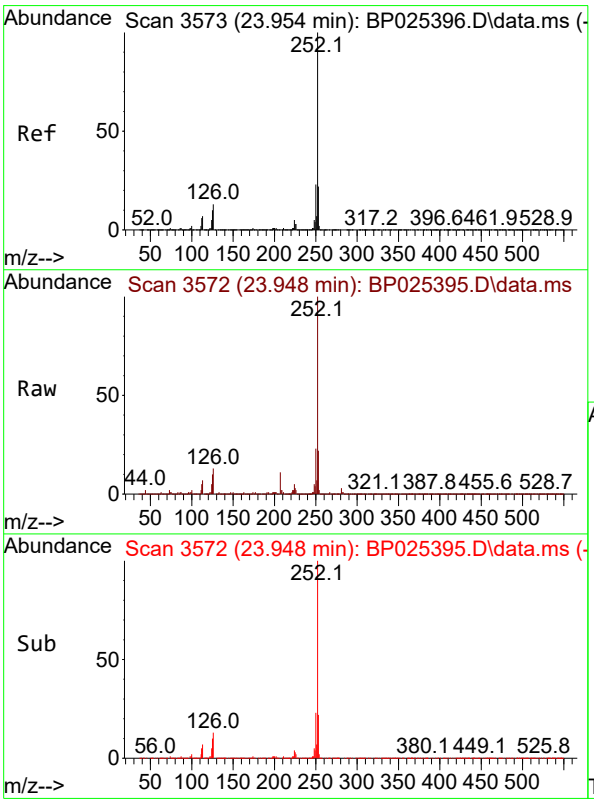
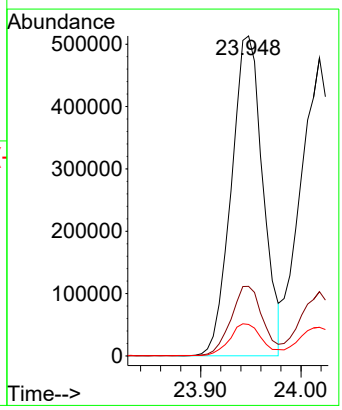
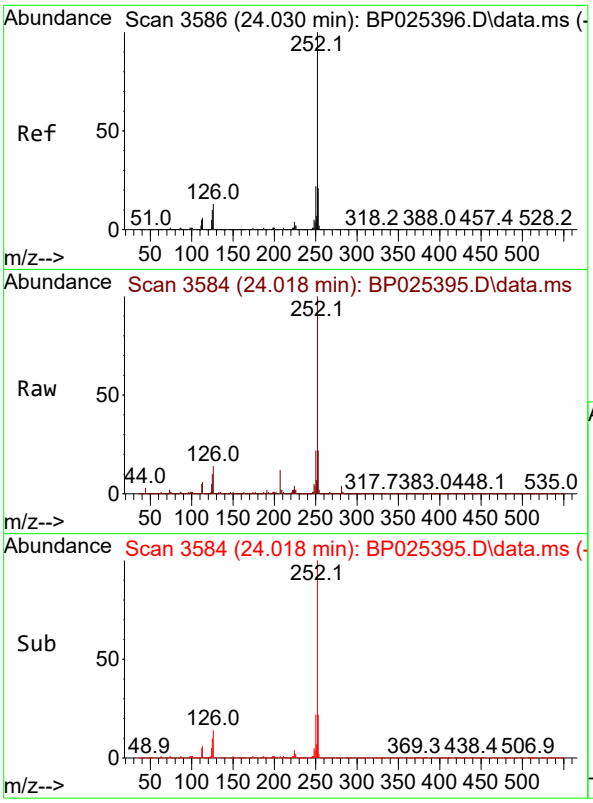


#88
Benzo(b)fluoranthene
Concen: 19.855 ng
RT: 23.948 min Scan# 3572
Delta R.T. -0.006 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:252 Resp: 1122408

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.7	26.5
125	9.9	7.9	11.9

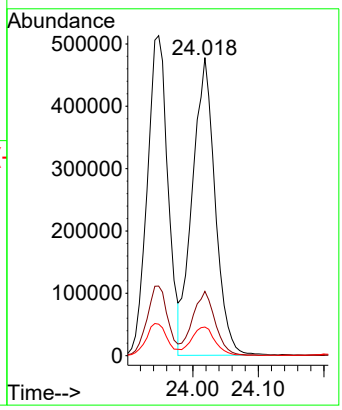




#89
Benzo(k)fluoranthene
Concen: 20.336 ng
RT: 24.018 min Scan# 3
Delta R.T. -0.012 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:252 Resp: 115036

Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.1	25.7
125	9.6	7.8	11.6



Instrument :
BNA_P
ClientSampleId :
SSTDICC020

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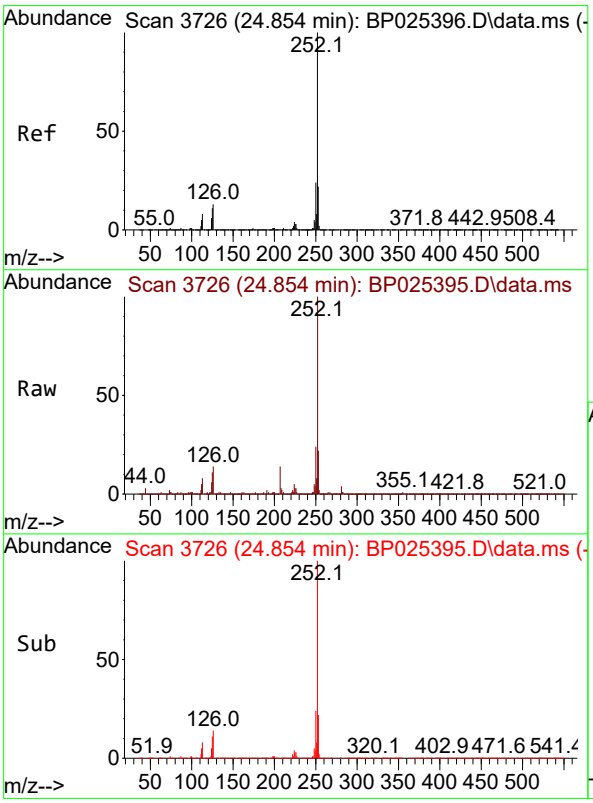
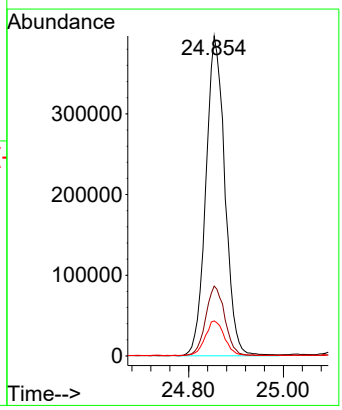
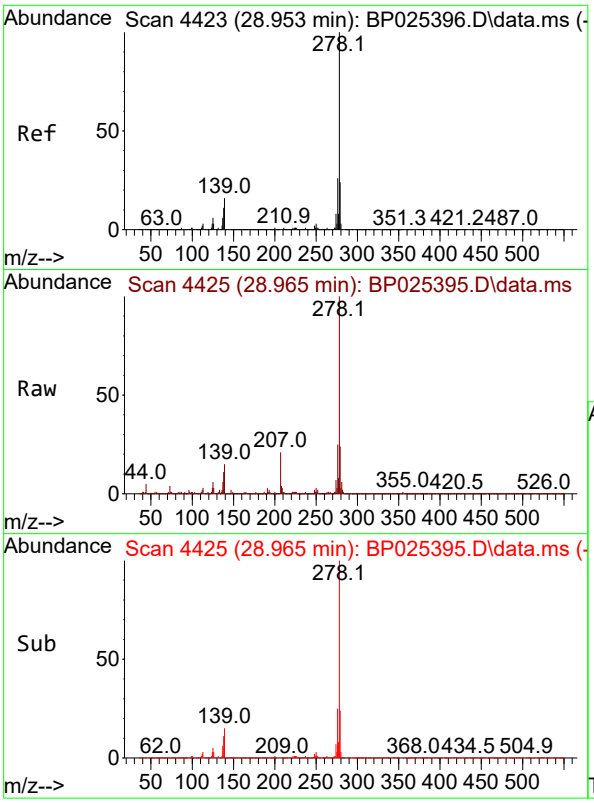


#90
Benzo(a)pyrene
Concen: 20.041 ng
RT: 24.854 min Scan# 3726
Delta R.T. 0.000 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:252 Resp: 1102804

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.5	26.3
125	10.9	8.7	13.1

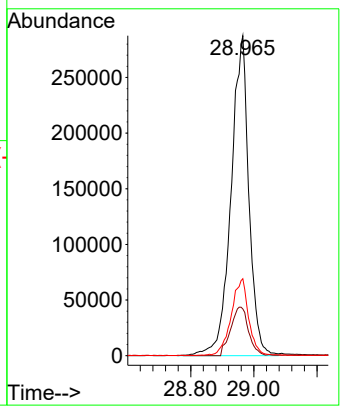




#91
Dibenzo(a,h)anthracene
Concen: 19.672 ng
RT: 28.965 min Scan# 4
Delta R.T. 0.012 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:278 Resp: 113020

Ion	Ratio	Lower	Upper
278	100		
139	14.6	13.0	19.4
279	24.1	19.4	29.2



Instrument :
BNA_P
ClientSampleId :
SSTDICC020

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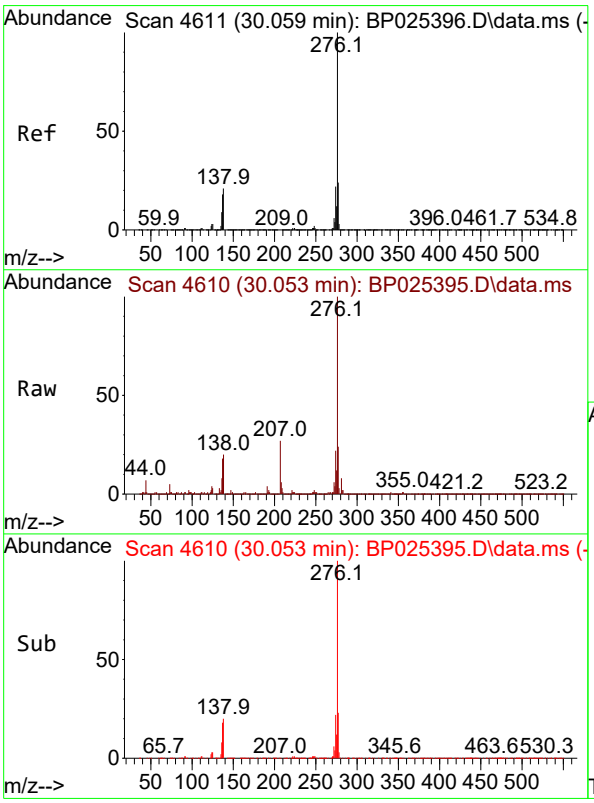
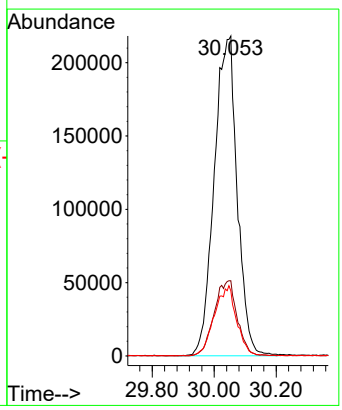


#92
Benzo(g,h,i)perylene
Concen: 19.840 ng
RT: 30.053 min Scan# 4610
Delta R.T. -0.006 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:276 Resp: 1120307

Ion	Ratio	Lower	Upper
276	100		
277	23.5	19.4	29.0
138	20.4	16.7	25.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081425\
Data File : BP025396.D
Acq On : 14 Aug 2025 15:19
Operator : CG/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 08/15/2025
Supervised By :Jagrut Upadhyay 08/15/2025

Quant Time: Aug 14 17:55:59 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 17:44:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.796	152	157704	20.000	ng	0.00
21) Naphthalene-d8	10.560	136	663553	20.000	ng	0.00
39) Acenaphthene-d10	14.407	164	441110	20.000	ng	0.00
64) Phenanthrene-d10	17.201	188	884529	20.000	ng	0.00
76) Chrysene-d12	21.648	240	899207	20.000	ng	0.00
86) Perylene-d12	25.030	264	1022138	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.408	112	733191	77.209	ng	0.00
7) Phenol-d6	6.966	99	954285	78.381	ng	0.00
23) Nitrobenzene-d5	8.937	82	1015557	77.420	ng	0.00
42) 2,4,6-Tribromophenol	15.913	330	463783	78.112	ng	0.00
45) 2-Fluorobiphenyl	13.019	172	2456787	76.118	ng	0.00
79) Terphenyl-d14	19.919	244	3760236	76.508	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.337	88	140326	37.726	ng	100
3) Pyridine	3.731	79	384936	37.809	ng	100
4) n-Nitrosodimethylamine	3.637	42	161267	38.421	ng	100
6) Aniline	7.125	93	637156	38.842	ng	100
8) 2-Chlorophenol	7.366	128	414233	38.655	ng	100
9) Benzaldehyde	6.943	77	430704	50.493	ng	100
10) Phenol	6.996	94	496755	38.884	ng	100
11) bis(2-Chloroethyl)ether	7.219	93	385335	38.698	ng	100
12) 1,3-Dichlorobenzene	7.684	146	455200	38.523	ng	100
13) 1,4-Dichlorobenzene	7.831	146	462800	38.319	ng	100
14) 1,2-Dichlorobenzene	8.143	146	451306	38.602	ng	100
15) Benzyl Alcohol	8.025	79	376323	38.901	ng	100
16) 2,2'-oxybis(1-Chloropr...	8.313	45	510991	38.308	ng	100
17) 2-Methylphenol	8.225	107	349313	39.369	ng	100
18) Hexachloroethane	8.866	117	171906	38.712	ng	100
19) n-Nitroso-di-n-propyla...	8.590	70	312773	38.737	ng	100
20) 3+4-Methylphenols	8.549	107	481148	39.121	ng	100
22) Acetophenone	8.601	105	644124	38.708	ng	100
24) Nitrobenzene	8.972	77	457175	38.997	ng	100
25) Isophorone	9.501	82	893987	38.510	ng	100
26) 2-Nitrophenol	9.678	139	239675	39.837	ng	100
27) 2,4-Dimethylphenol	9.743	122	408572	39.489	ng	100
28) bis(2-Chloroethoxy)met...	9.972	93	540282	38.502	ng	100
29) 2,4-Dichlorophenol	10.213	162	405233	39.427	ng	100
30) 1,2,4-Trichlorobenzene	10.425	180	434105	38.529	ng	100
31) Naphthalene	10.613	128	1326839	38.472	ng	100
32) Benzoic acid	9.872	122	301281	39.537	ng	100
33) 4-Chloroaniline	10.713	127	599466	39.350	ng	100
34) Hexachlorobutadiene	10.901	225	271549	38.700	ng	100
35) Caprolactam	11.495	113	145175	38.520	ng	100
36) 4-Chloro-3-methylphenol	11.837	107	459473	38.959	ng	100
37) 2-Methylnaphthalene	12.219	142	865427	38.559	ng	100
38) 1-Methylnaphthalene	12.437	142	909865	38.120	ng	100
40) 1,2,4,5-Tetrachloroben...	12.590	216	494141	38.787	ng	100
41) Hexachlorocyclopentadiene	12.572	237	307015	39.896	ng	100
43) 2,4,6-Trichlorophenol	12.825	196	337157	39.201	ng	100

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081425\
Data File : BP025396.D
Acq On : 14 Aug 2025 15:19
Operator : CG/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 08/15/2025
Supervised By :Jagrut Upadhyay 08/15/2025

Quant Time: Aug 14 17:55:59 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 17:44:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.895	196	373880	39.664	ng	100
46) 1,1'-Biphenyl	13.231	154	1242247	38.777	ng	100
47) 2-Chloronaphthalene	13.272	162	970903	38.930	ng	100
48) 2-Nitroaniline	13.472	65	291341	40.092	ng	100
49) Acenaphthylene	14.125	152	1593636	38.617	ng	100
50) Dimethylphthalate	13.860	163	1237666	38.316	ng	100
51) 2,6-Dinitrotoluene	13.966	165	272750	40.061	ng	100
52) Acenaphthene	14.466	154	918569	37.921	ng	100
53) 3-Nitroaniline	14.301	138	301417	39.349	ng	100
54) 2,4-Dinitrophenol	14.507	184	144100	39.633	ng	100
55) Dibenzofuran	14.807	168	1479220	38.624	ng	100
56) 4-Nitrophenol	14.613	139	246542	39.168	ng	100
57) 2,4-Dinitrotoluene	14.766	165	386189	39.757	ng	100
58) Fluorene	15.466	166	1151825	38.115	ng	100
59) 2,3,4,6-Tetrachlorophenol	15.036	232	324396	38.975	ng	100
60) Diethylphthalate	15.236	149	1264740	38.533	ng	100
61) 4-Chlorophenyl-phenyle...	15.460	204	574546	38.228	ng	100
62) 4-Nitroaniline	15.478	138	309740	39.443	ng	100
63) Azobenzene	15.754	77	1091004	38.820	ng	100
65) 4,6-Dinitro-2-methylph...	15.542	198	217153	39.384	ng	100
66) n-Nitrosodiphenylamine	15.678	169	1045170	38.749	ng	100
67) 4-Bromophenyl-phenylether	16.372	248	376864	38.739	ng	100
68) Hexachlorobenzene	16.489	284	428361	37.986	ng	100
69) Atrazine	16.654	200	386256	38.238	ng	100
70) Pentachlorophenol	16.842	266	278412	39.110	ng	100
71) Phenanthrene	17.242	178	1839191	37.851	ng	100
72) Anthracene	17.336	178	1908189	38.456	ng	100
73) Carbazole	17.613	167	1781890	38.125	ng	100
74) Di-n-butylphthalate	18.207	149	2201043	38.277	ng	100
75) Fluoranthene	19.324	202	2172758	37.488	ng	100
77) Benzidine	19.513	184	1738926	56.665	ng	100
78) Pyrene	19.701	202	2290461	39.189	ng	100
80) Butylbenzylphthalate	20.648	149	1041998	39.338	ng	100
81) Benzo(a)anthracene	21.630	228	2280774	38.460	ng	100
82) 3,3'-Dichlorobenzidine	21.542	252	877708	39.266	ng	100
83) Chrysene	21.695	228	2125866	38.278	ng	100
84) Bis(2-ethylhexyl)phtha...	21.583	149	1493804	38.310	ng	100
85) Di-n-octyl phthalate	22.871	149	2597558	38.730	ng	100
87) Indeno(1,2,3-cd)pyrene	28.865	276	2884713m	38.470	ng	
88) Benzo(b)fluoranthene	23.954	252	2318198	38.462	ng	100
89) Benzo(k)fluoranthene	24.030	252	2309091	38.285	ng	100
90) Benzo(a)pyrene	24.854	252	2265862	38.620	ng	100
91) Dibenzo(a,h)anthracene	28.953	278	2363840	38.589	ng	100
92) Benzo(g,h,i)perylene	30.059	276	2327292	38.654	ng	100

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

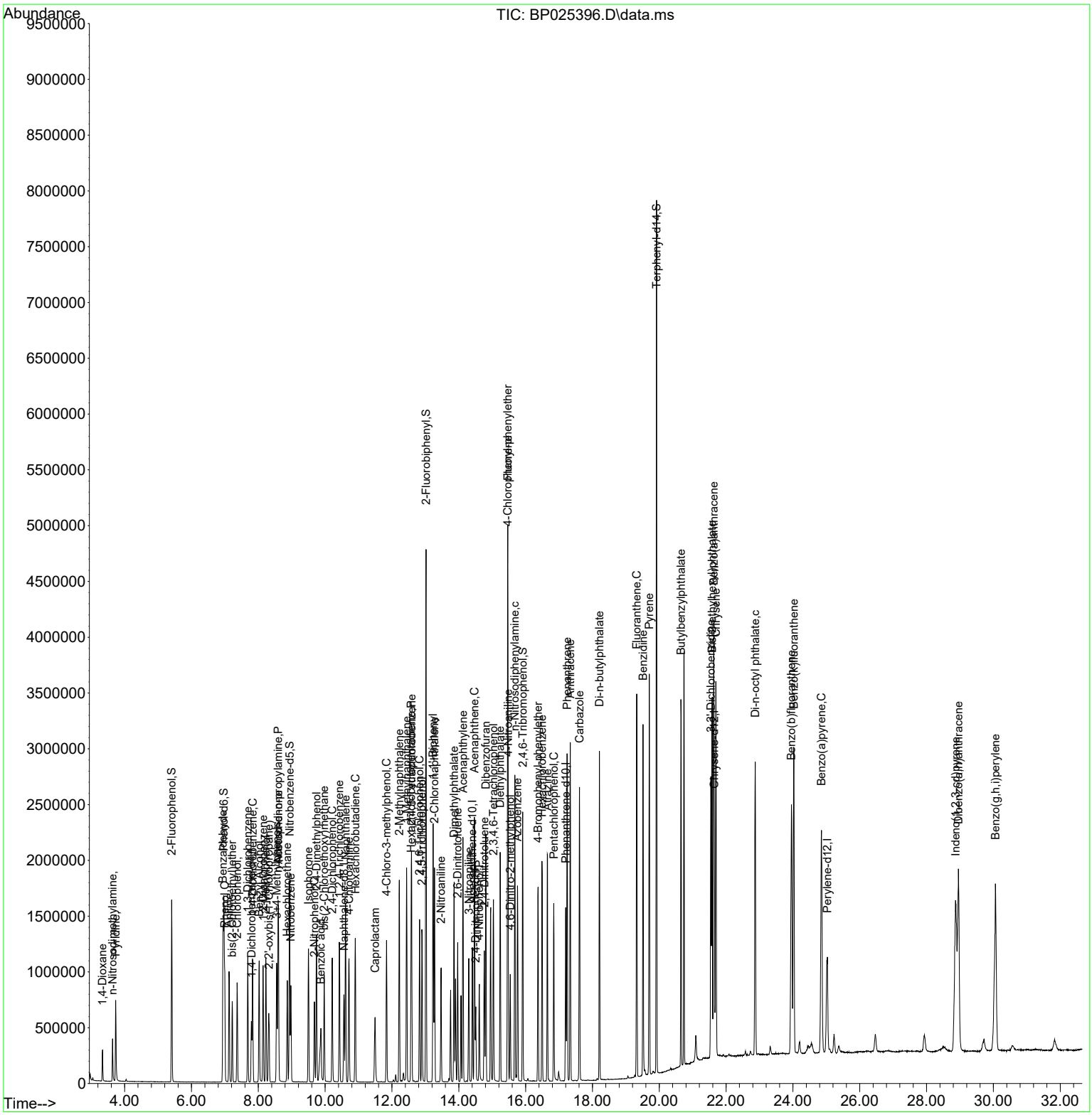
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081425\
Data File : BP025396.D
Acq On : 14 Aug 2025 15:19
Operator : CG/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 7 Sample Multiplier: 1

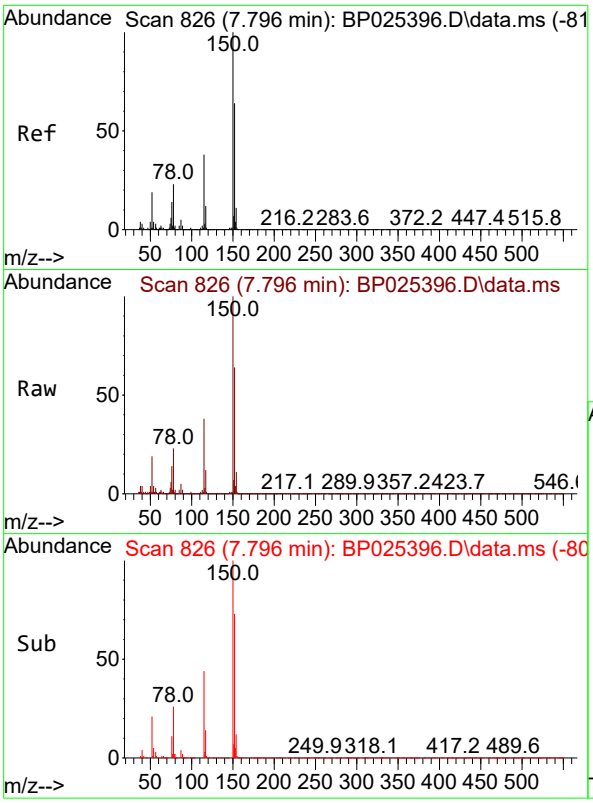
Quant Time: Aug 14 17:55:59 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 17:44:43 2025
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 08/15/2025
Supervised By :Jagrut Upadhyay 08/15/2025

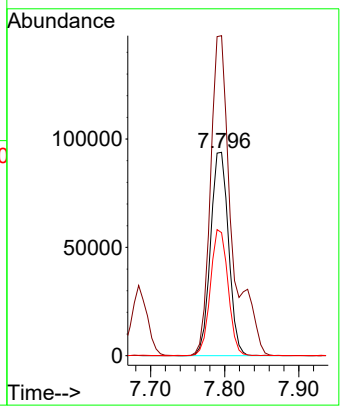




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.796 min Scan# 8
Delta R.T. -0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:152 Resp: 15770

Ion	Ratio	Lower	Upper
152	100		
150	157.4	125.9	188.9
115	60.6	48.5	72.7



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

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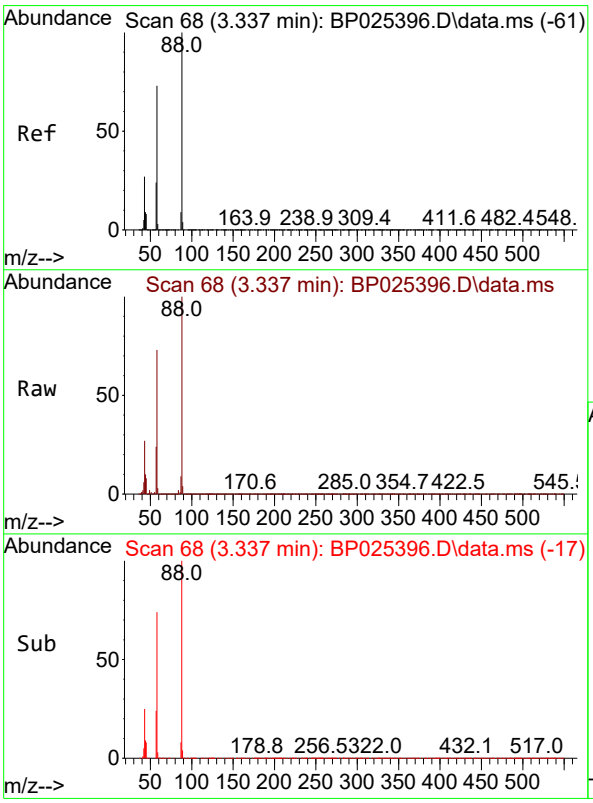
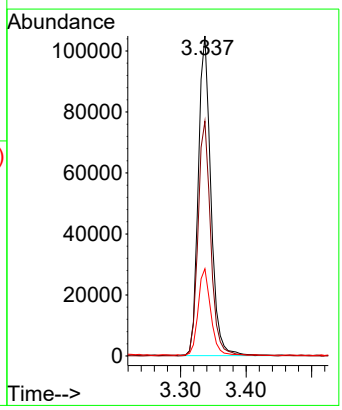
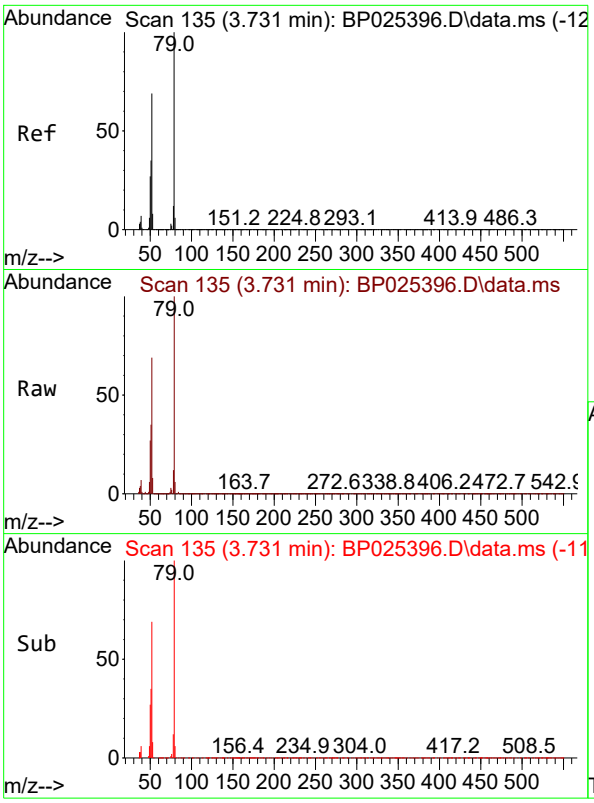


#2
1,4-Dioxane
Concen: 37.726 ng
RT: 3.337 min Scan# 68
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion: 88 Resp: 140326

Ion	Ratio	Lower	Upper
88	100		
58	74.0	59.2	88.8
43	27.1	21.7	32.5

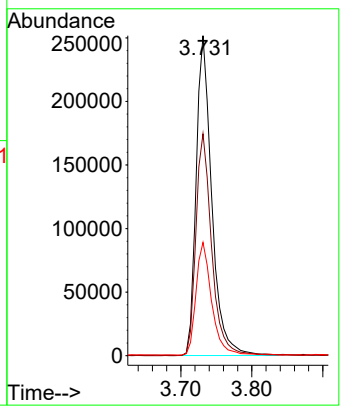




#3
Pyridine
Concen: 37.809 ng
RT: 3.731 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion: 79 Resp: 38493

Ion	Ratio	Lower	Upper
79	100		
52	69.4	55.5	83.3
51	35.4	28.3	42.5



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

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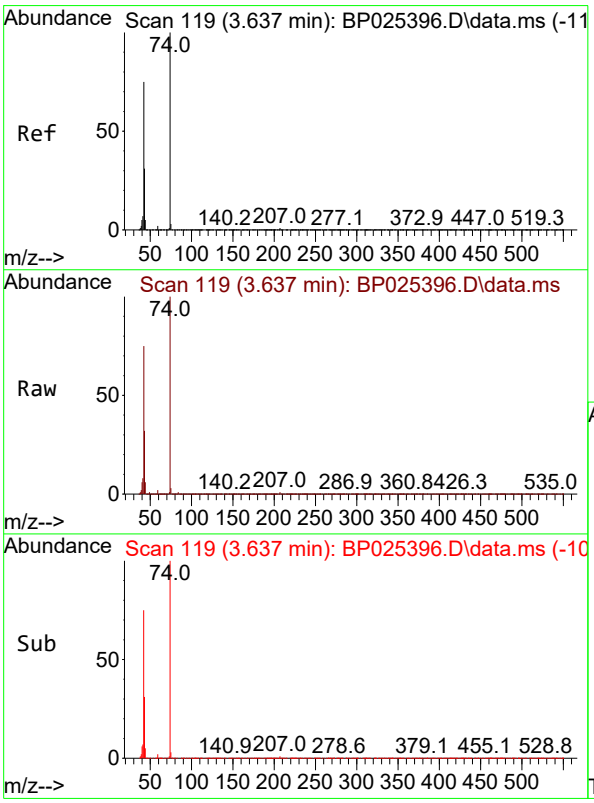
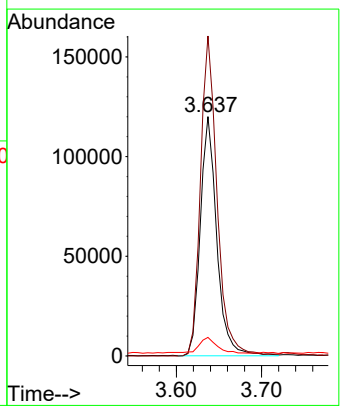
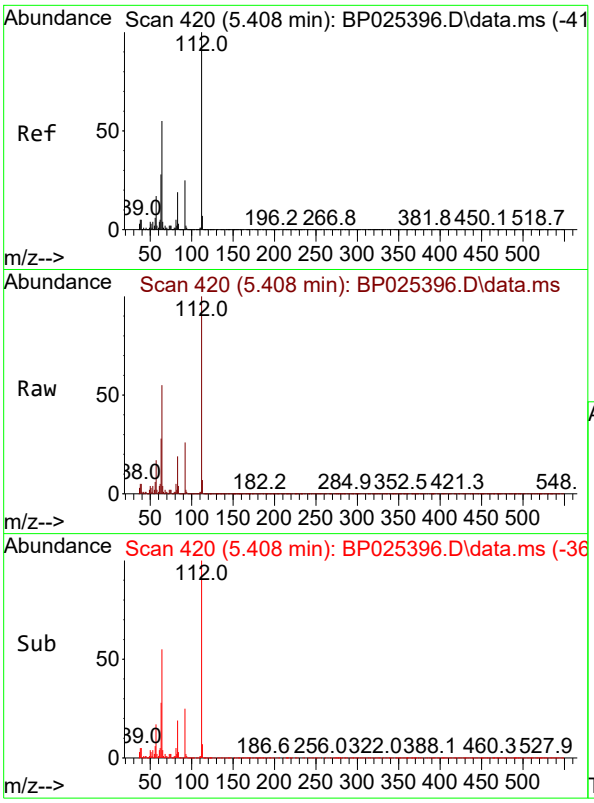


#4
n-Nitrosodimethylamine
Concen: 38.421 ng
RT: 3.637 min Scan# 119
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion: 42 Resp: 161267

Ion	Ratio	Lower	Upper
42	100		
74	133.7	107.0	160.4
44	7.8	6.2	9.4

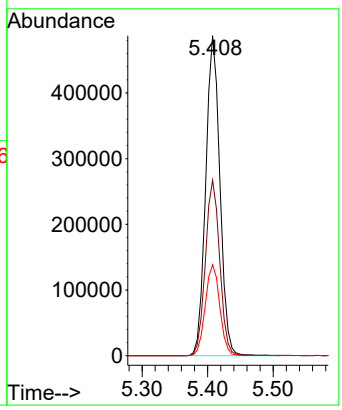




#5
2-Fluorophenol
Concen: 77.209 ng
RT: 5.408 min Scan# 4
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:112 Resp: 73319

Ion	Ratio	Lower	Upper
112	100		
64	54.8	43.8	65.8
63	28.4	22.7	34.1



Instrument :
BNA_P
ClientSampleId :
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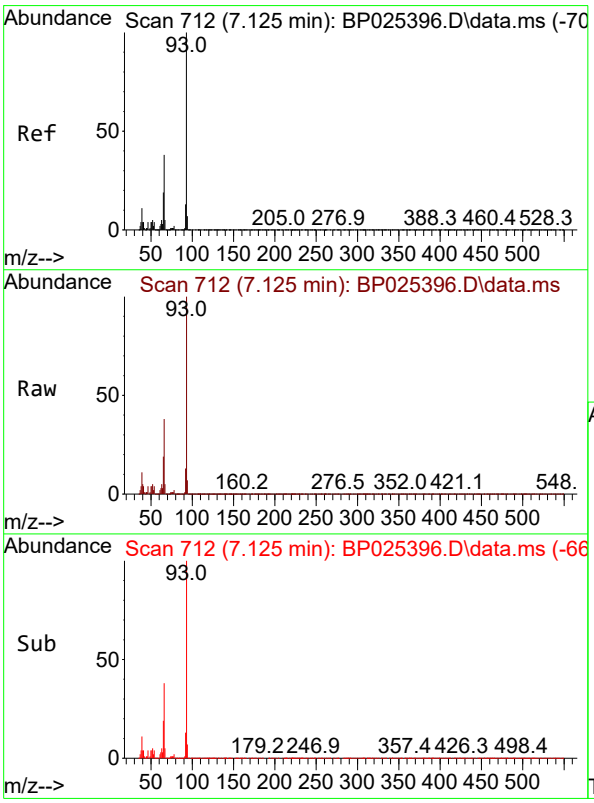
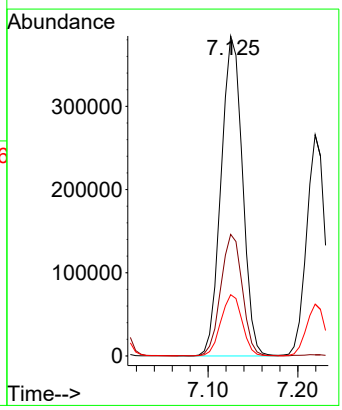
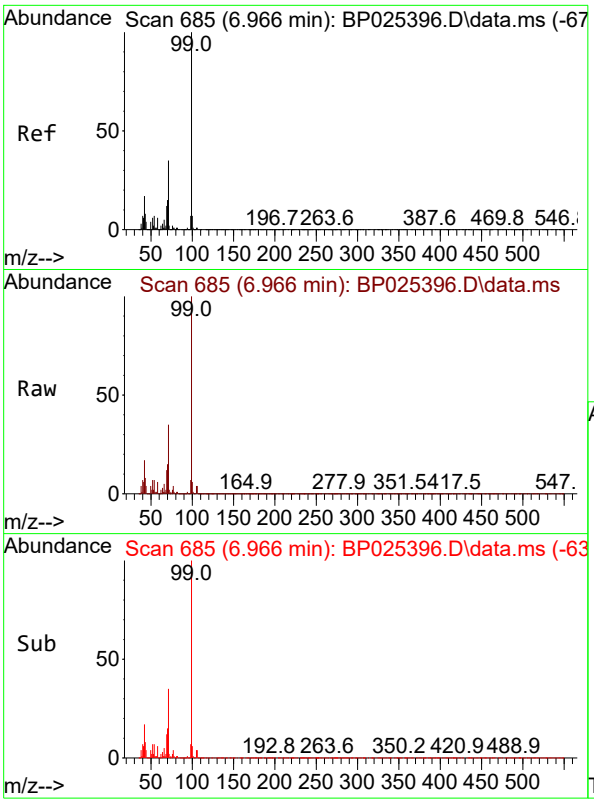


#6
Aniline
Concen: 38.842 ng
RT: 7.125 min Scan# 712
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion: 93 Resp: 637156

Ion	Ratio	Lower	Upper
93	100		
66	38.0	30.4	45.6
65	19.1	15.3	22.9

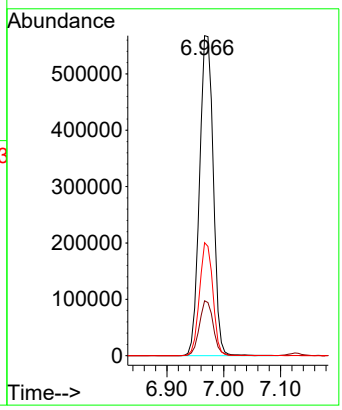




#7
Phenol-d6
Concen: 78.381 ng
RT: 6.966 min Scan# 6
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion: 99 Resp: 95428

Ion	Ratio	Lower	Upper
99	100		
42	17.1	13.7	20.5
71	35.3	28.2	42.4



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

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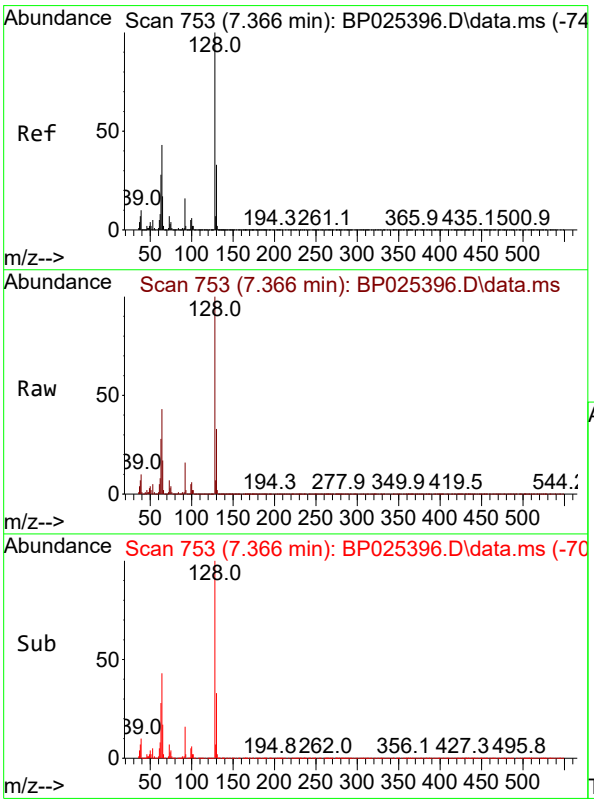
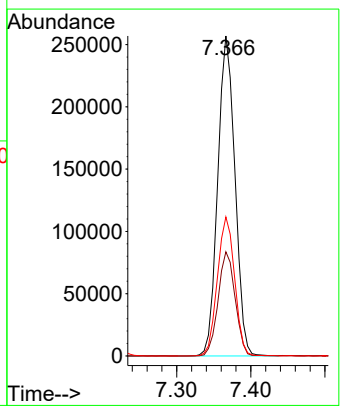
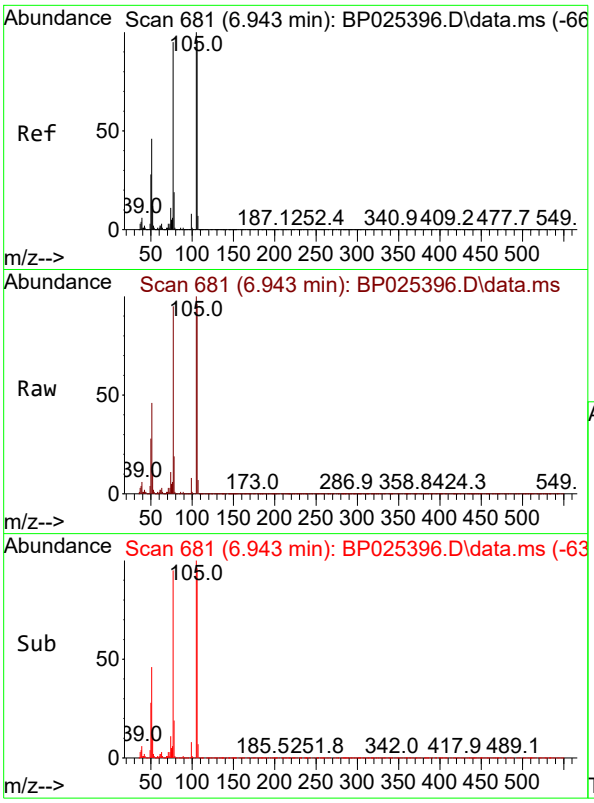


#8
2-Chlorophenol
Concen: 38.655 ng
RT: 7.366 min Scan# 753
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:128 Resp: 414233

Ion	Ratio	Lower	Upper
128	100		
130	32.6	12.6	52.6
64	43.4	23.4	63.4

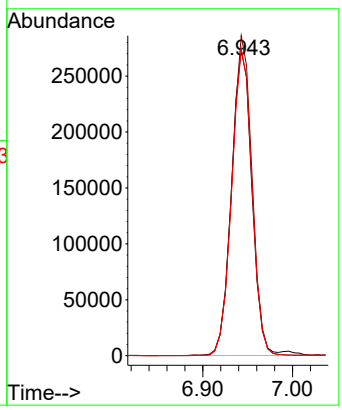




#9
Benzaldehyde
Concen: 50.493 ng
RT: 6.943 min Scan# 6
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion: 77 Resp: 43070

Ion	Ratio	Lower	Upper
77	100		
105	104.8	84.8	124.8
106	100.5	80.5	120.5



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

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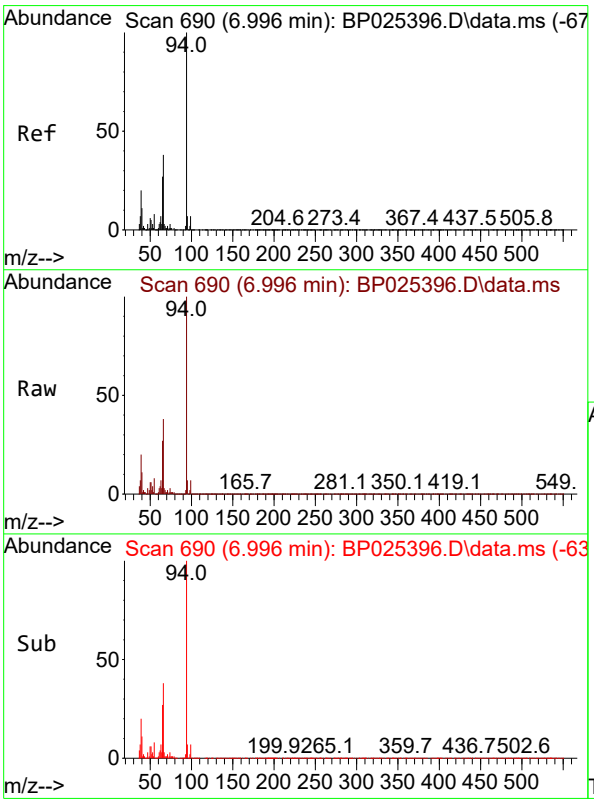
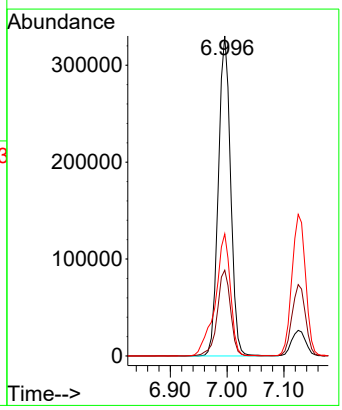
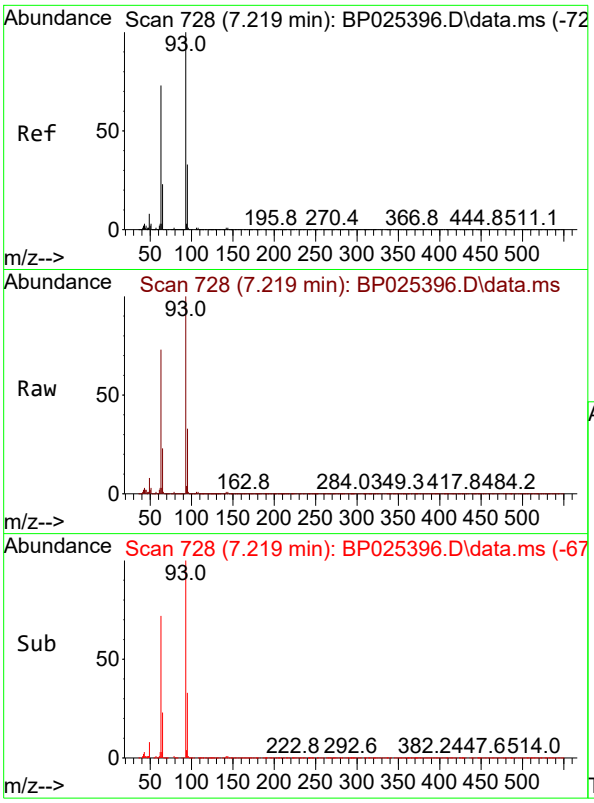


#10
Phenol
Concen: 38.884 ng
RT: 6.996 min Scan# 690
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion: 94 Resp: 496755

Ion	Ratio	Lower	Upper
94	100		
65	26.8	6.8	46.8
66	38.2	18.2	58.2

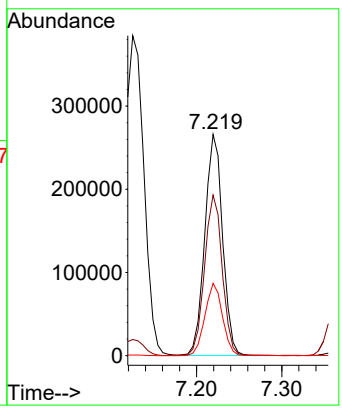




#11
bis(2-Chloroethyl)ether
Concen: 38.698 ng
RT: 7.219 min Scan# 7
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion: 93 Resp: 38533

Ion	Ratio	Lower	Upper
93	100		
63	72.6	52.6	92.6
95	32.7	12.7	52.7



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

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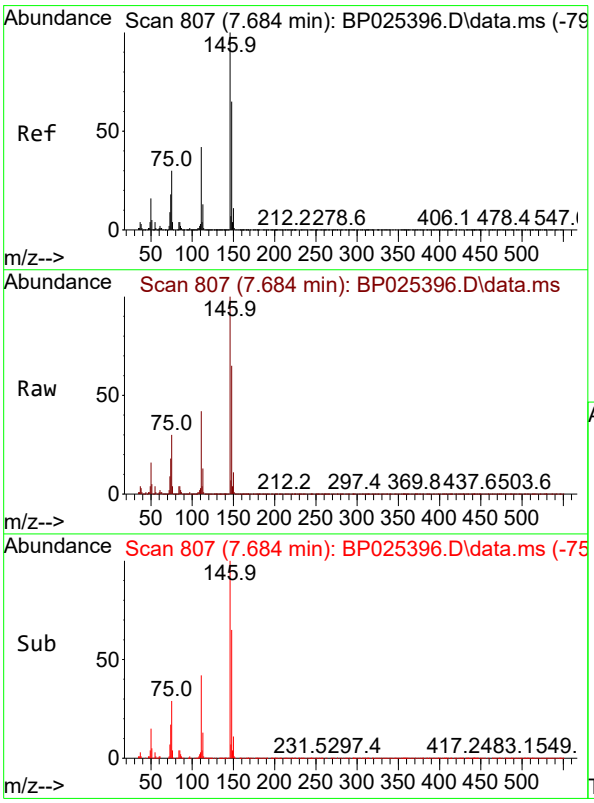
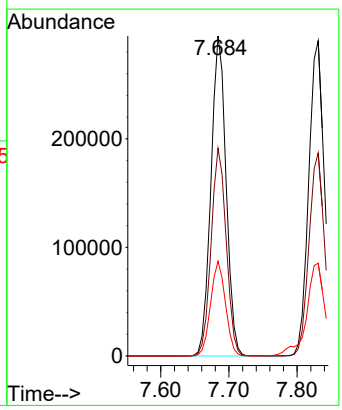
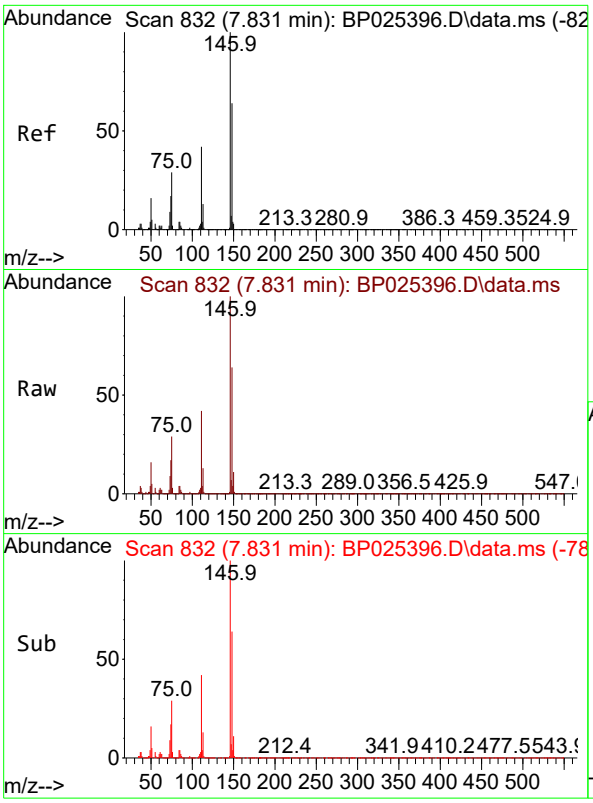


#12
1,3-Dichlorobenzene
Concen: 38.523 ng
RT: 7.684 min Scan# 807
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:146 Resp: 455200

Ion	Ratio	Lower	Upper
146	100		
148	64.9	51.9	77.9
75	29.6	23.7	35.5

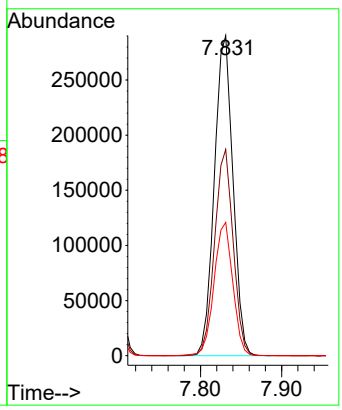




#13
1,4-Dichlorobenzene
Concen: 38.319 ng
RT: 7.831 min Scan# 8
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:146 Resp: 46280

Ion	Ratio	Lower	Upper
146	100		
148	64.5	51.6	77.4
111	41.7	33.4	50.0



Instrument :
BNA_P
ClientSampleId :
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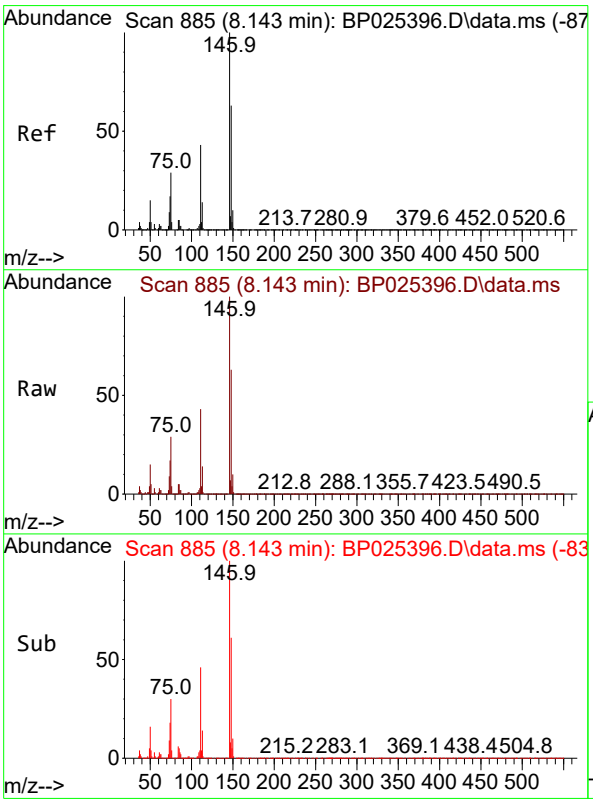
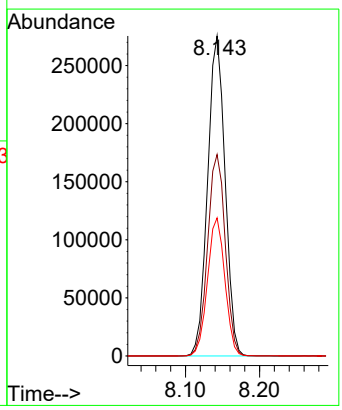
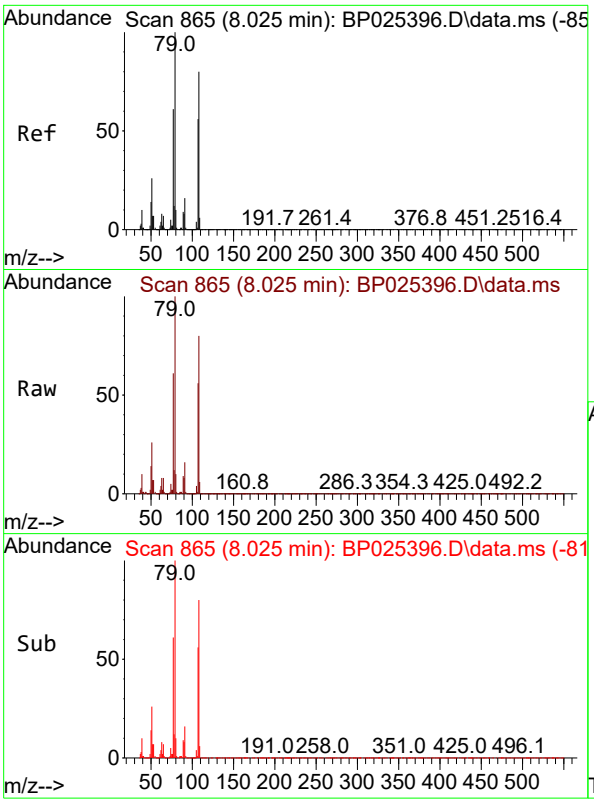


#14
1,2-Dichlorobenzene
Concen: 38.602 ng
RT: 8.143 min Scan# 885
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:146 Resp: 451306

Ion	Ratio	Lower	Upper
146	100		
148	63.0	50.4	75.6
111	43.1	34.5	51.7





#15
Benzyl Alcohol
Concen: 38.901 ng
RT: 8.025 min Scan# 8
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion: 79 Resp: 37632

Ion	Ratio	Lower	Upper
79	100		
108	79.7	63.8	95.6
77	61.2	49.0	73.4

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

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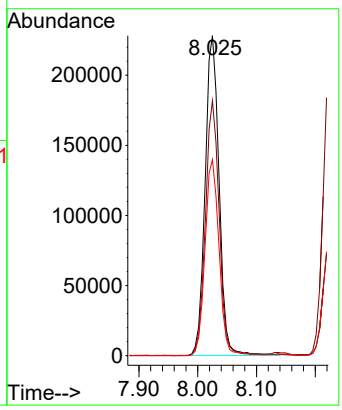
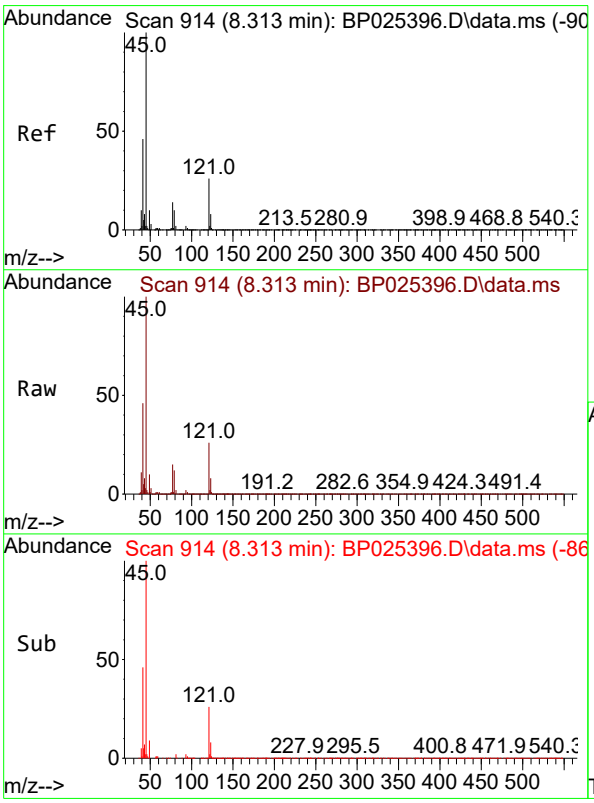
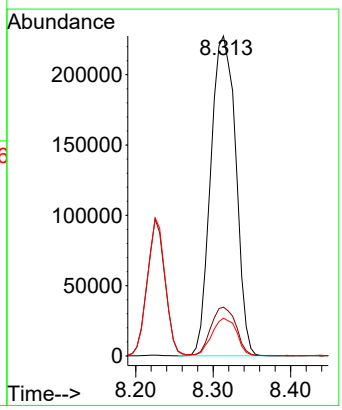


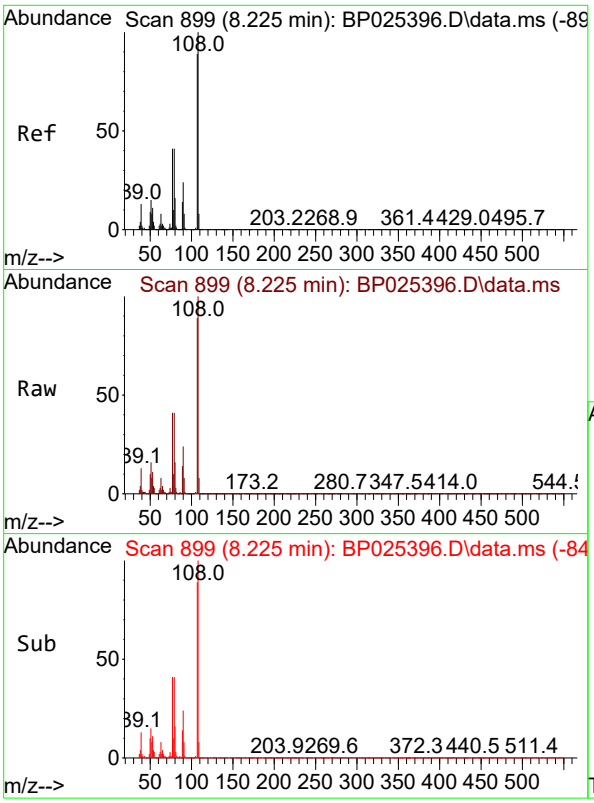


#16
2,2'-oxybis(1-Chloropropane)
Concen: 38.308 ng
RT: 8.313 min Scan# 914
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion: 45 Resp: 510991

Ion	Ratio	Lower	Upper
45	100		
77	15.3	0.0	35.3
79	11.8	0.0	31.8

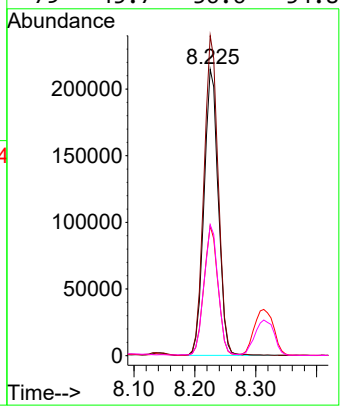




#17
2-Methylphenol
Concen: 39.369 ng
RT: 8.225 min Scan# 8
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:107 Resp: 34931

Ion	Ratio	Lower	Upper
107	100		
108	111.7	89.4	134.0
77	45.4	36.3	54.5
79	45.7	36.6	54.8



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

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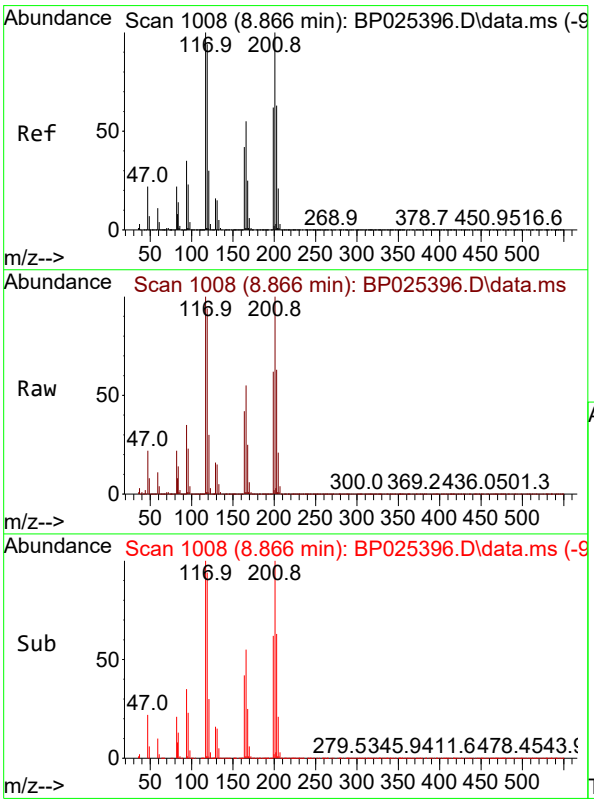
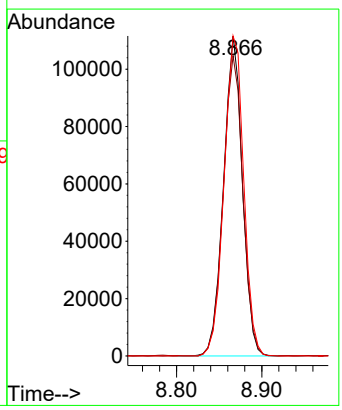
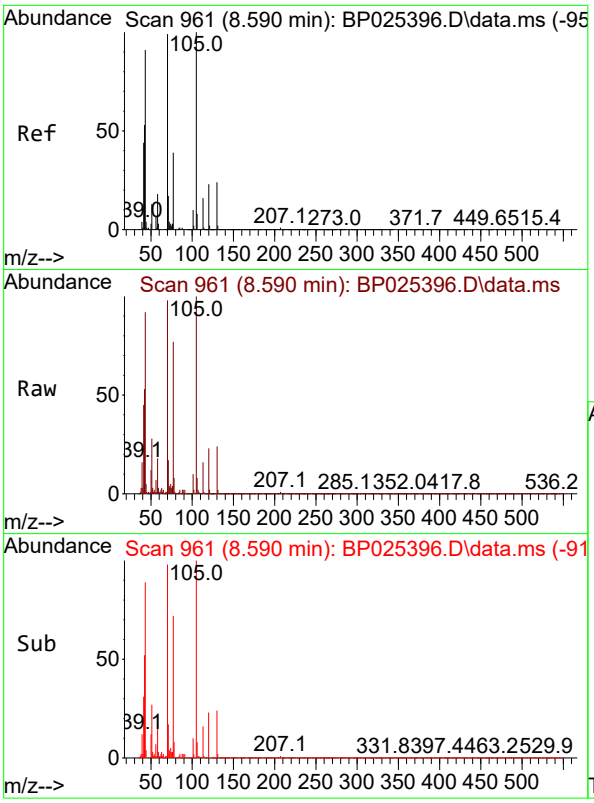


#18
Hexachloroethane
Concen: 38.712 ng
RT: 8.866 min Scan# 1008
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:117 Resp: 171906

Ion	Ratio	Lower	Upper
117	100		
119	93.9	75.1	112.7
201	100.1	80.1	120.1

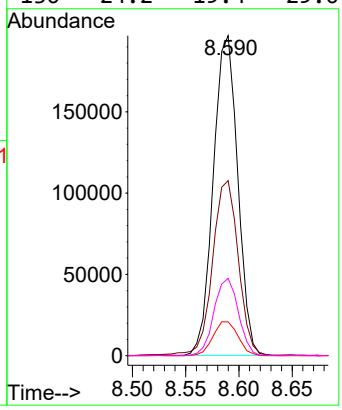




#19
n-Nitroso-di-n-propylamine
Concen: 38.737 ng
RT: 8.590 min Scan# 9
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion: 70 Resp: 31277

Ion	Ratio	Lower	Upper
70	100		
42	54.7	43.8	65.6
101	10.6	8.5	12.7
130	24.2	19.4	29.0



Instrument :
BNA_P
ClientSampleId :
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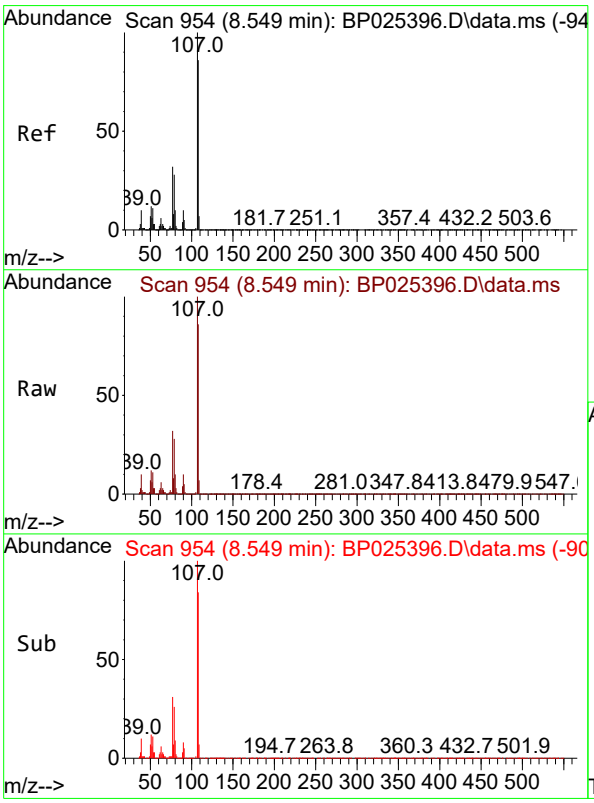
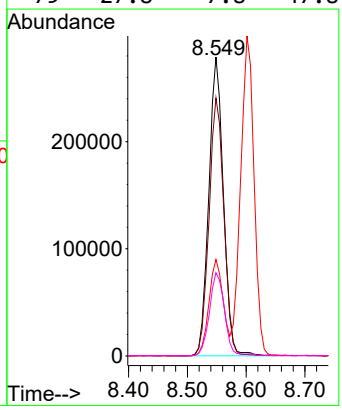
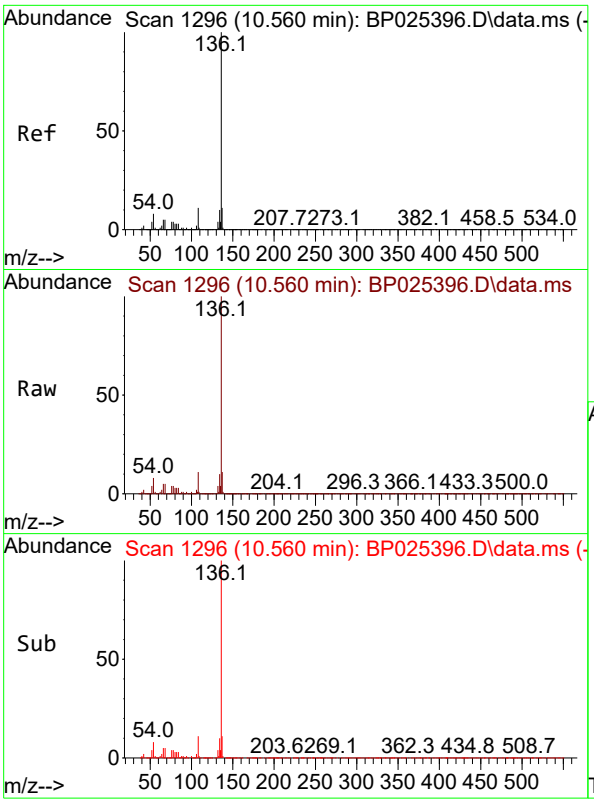


#20
3+4-Methylphenols
Concen: 39.121 ng
RT: 8.549 min Scan# 954
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:107 Resp: 481148

Ion	Ratio	Lower	Upper
107	100		
108	86.3	66.3	106.3
77	32.3	12.3	52.3
79	27.8	7.8	47.8

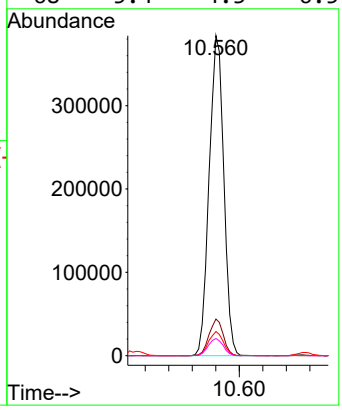




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.560 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:136 Resp: 66355

Ion	Ratio	Lower	Upper
136	100		
137	11.5	9.2	13.8
54	7.5	6.0	9.0
68	5.4	4.3	6.5



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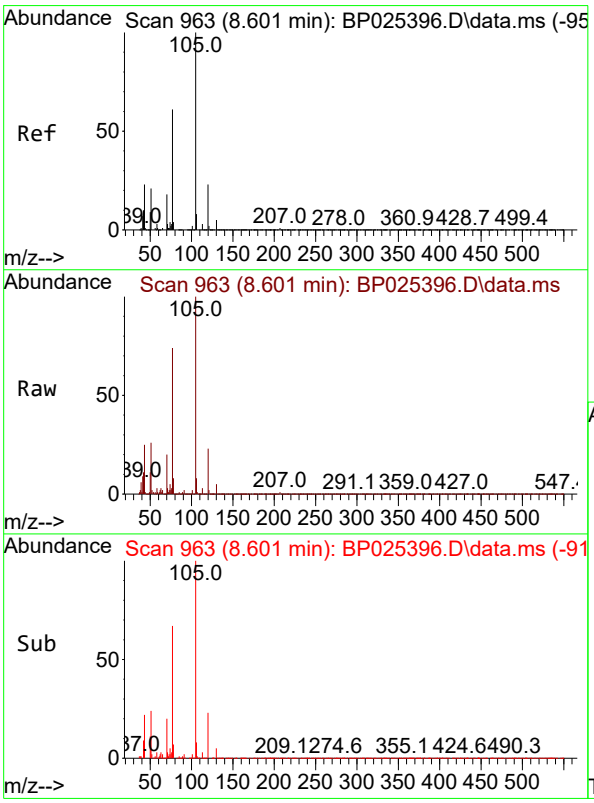
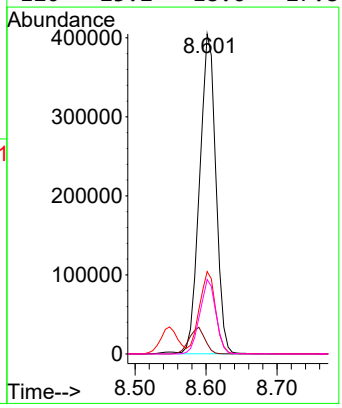
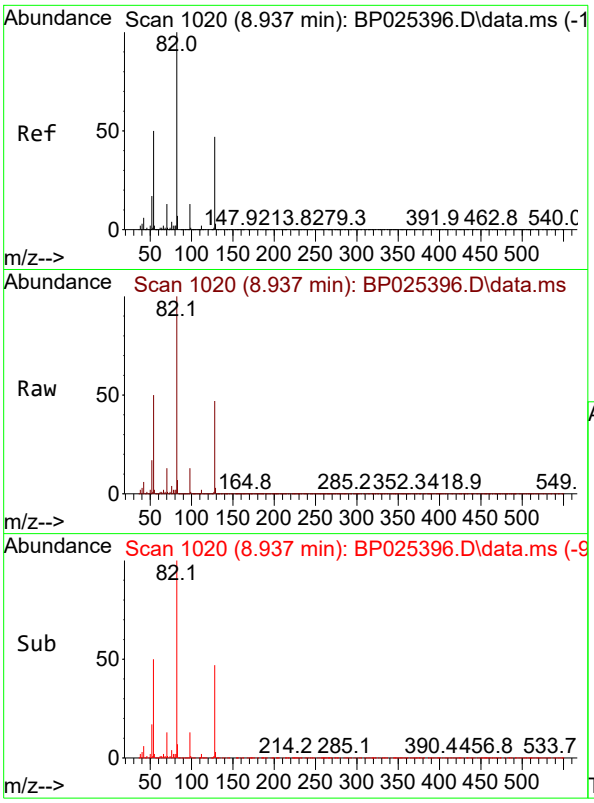


#22
Acetophenone
Concen: 38.708 ng
RT: 8.601 min Scan# 963
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:105 Resp: 644124

Ion	Ratio	Lower	Upper
105	100		
71	3.3	2.6	4.0
51	25.7	20.6	30.8
120	23.2	18.6	27.8

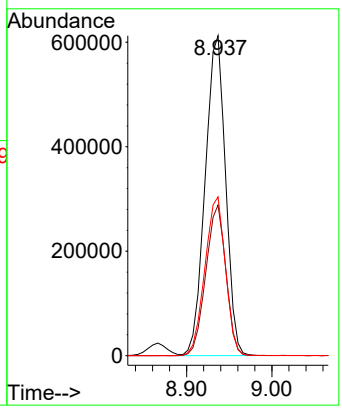




#23
Nitrobenzene-d5
Concen: 77.420 ng
RT: 8.937 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion: 82 Resp: 101555

Ion	Ratio	Lower	Upper
82	100		
128	47.1	37.7	56.5
54	49.7	39.8	59.6



Instrument :
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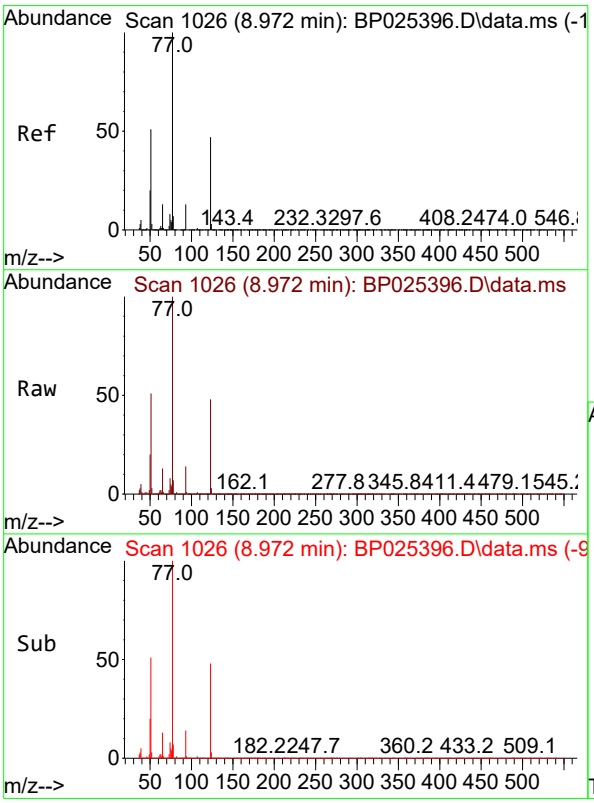
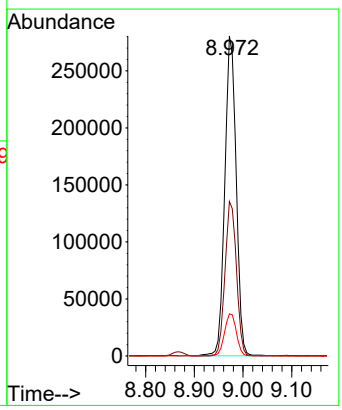
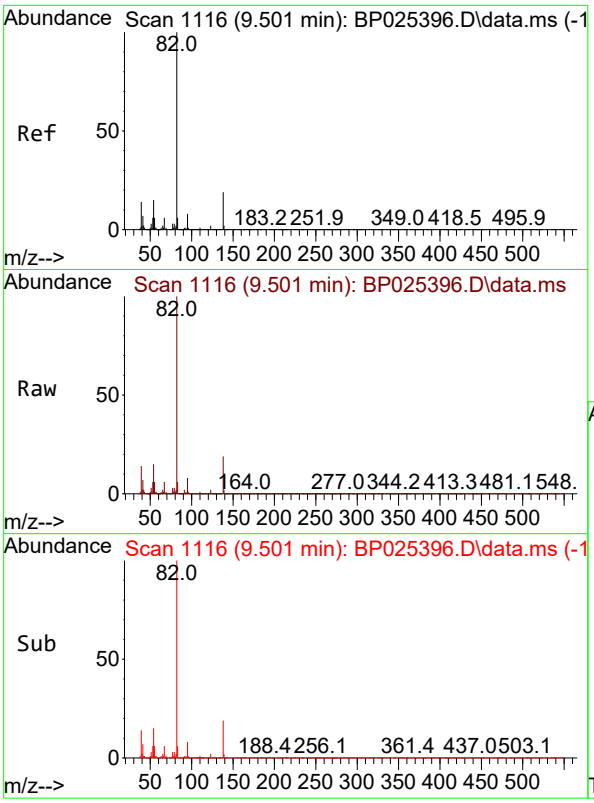


#24
Nitrobenzene
Concen: 38.997 ng
RT: 8.972 min Scan# 1026
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion: 77 Resp: 457175

Ion	Ratio	Lower	Upper
77	100		
123	48.3	38.6	58.0
65	13.2	10.6	15.8





#25
Isophorone
Concen: 38.510 ng
RT: 9.501 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion: 82 Resp: 89398

Ion	Ratio	Lower	Upper
82	100		
95	8.0	6.4	9.6
138	19.2	15.4	23.0

Instrument :
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ClientSampleId :
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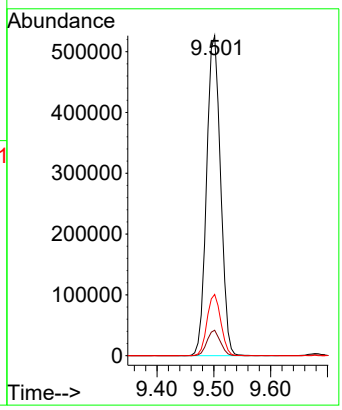
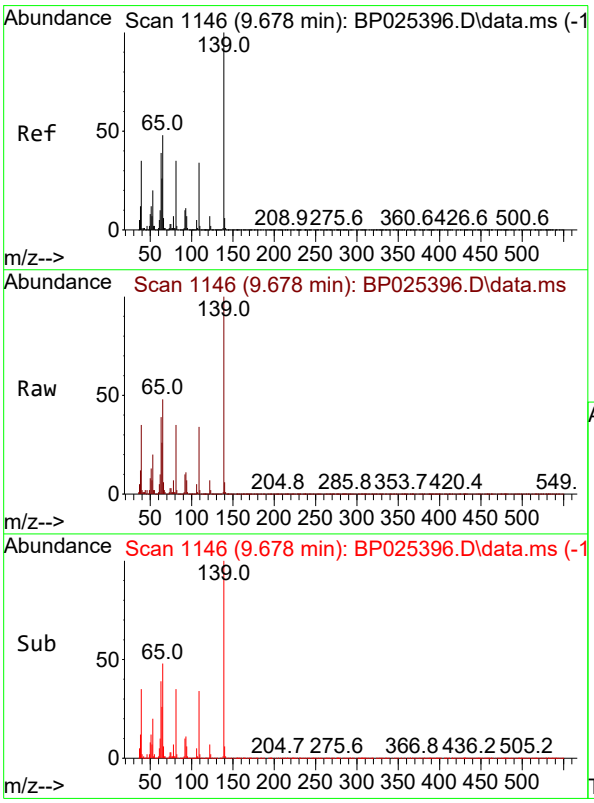
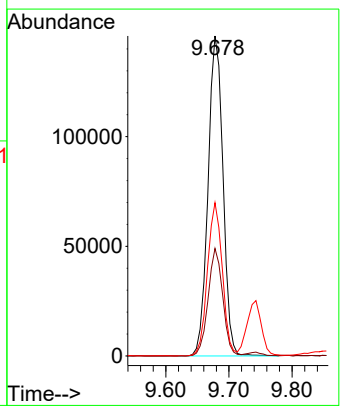


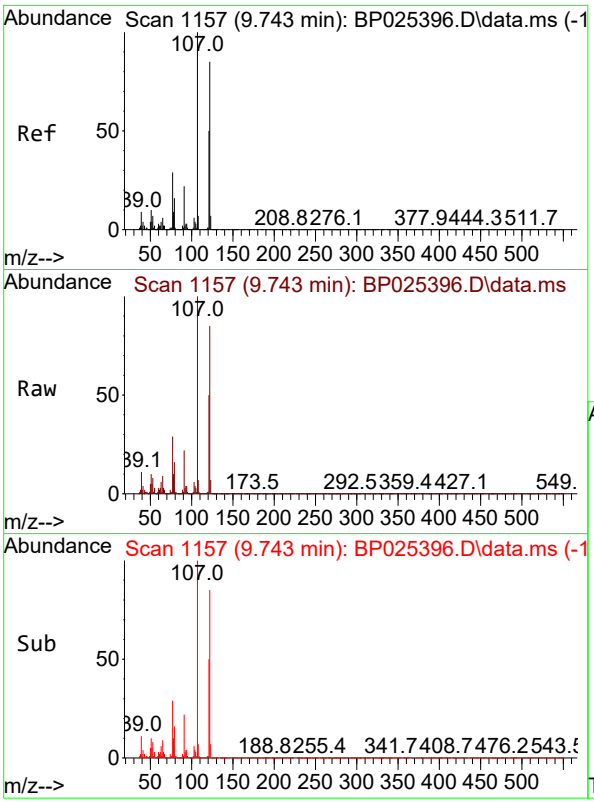


#26
2-Nitrophenol
Concen: 39.837 ng
RT: 9.678 min Scan# 1146
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:139 Resp: 239675

Ion	Ratio	Lower	Upper
139	100		
109	33.6	26.9	40.3
65	47.9	38.3	57.5

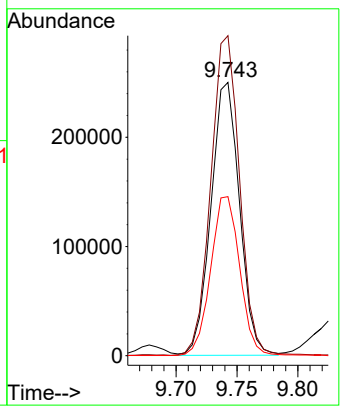




#27
2,4-Dimethylphenol
Concen: 39.489 ng
RT: 9.743 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:122 Resp: 40857

Ion	Ratio	Lower	Upper
122	100		
107	117.1	93.7	140.5
121	58.2	46.6	69.8



Instrument :
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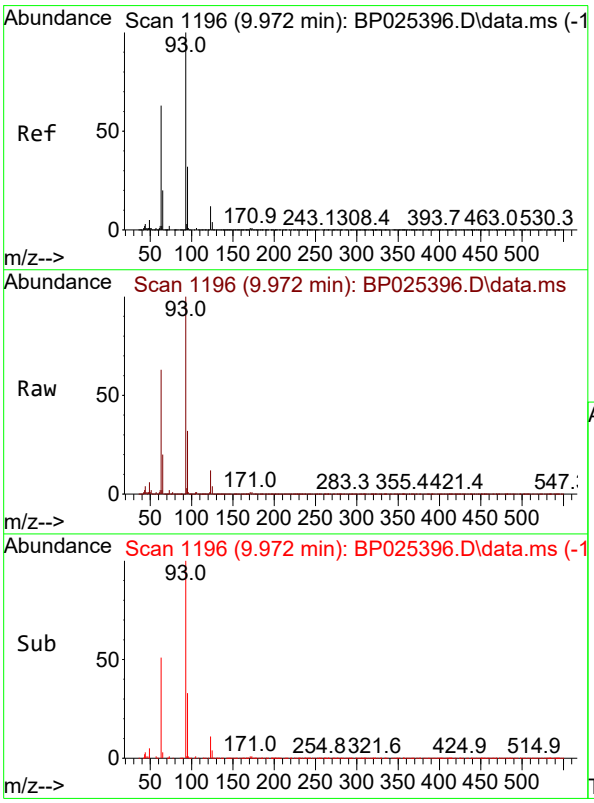
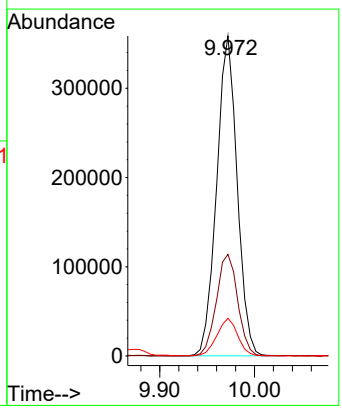
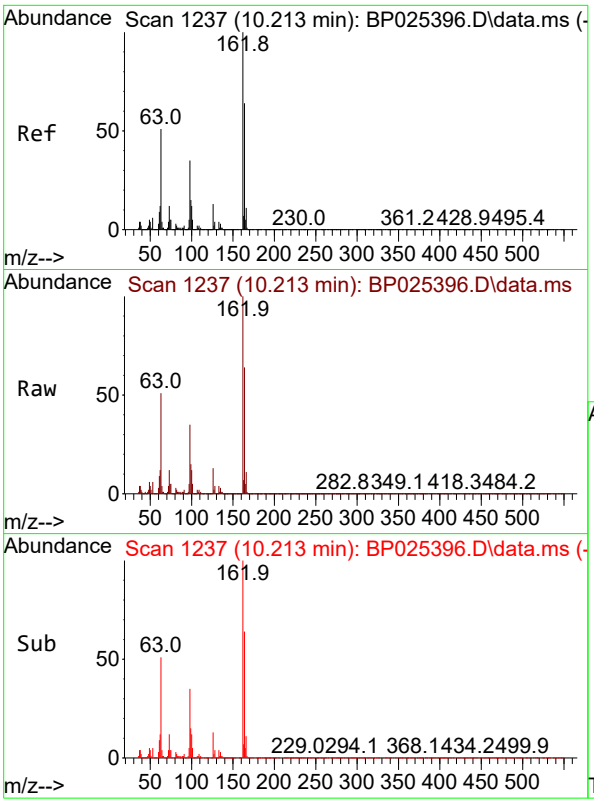


#28
bis(2-Chloroethoxy)methane
Concen: 38.502 ng
RT: 9.972 min Scan# 1196
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion: 93 Resp: 540282

Ion	Ratio	Lower	Upper
93	100		
95	31.7	25.4	38.0
123	11.7	9.4	14.0





#29
2,4-Dichlorophenol
Concen: 39.427 ng
RT: 10.213 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:162 Resp: 40523

Ion	Ratio	Lower	Upper
162	100		
164	64.4	44.4	84.4
98	34.9	14.9	54.9

Instrument :
BNA_P
ClientSampleId :
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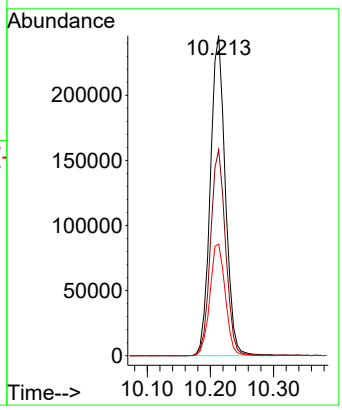
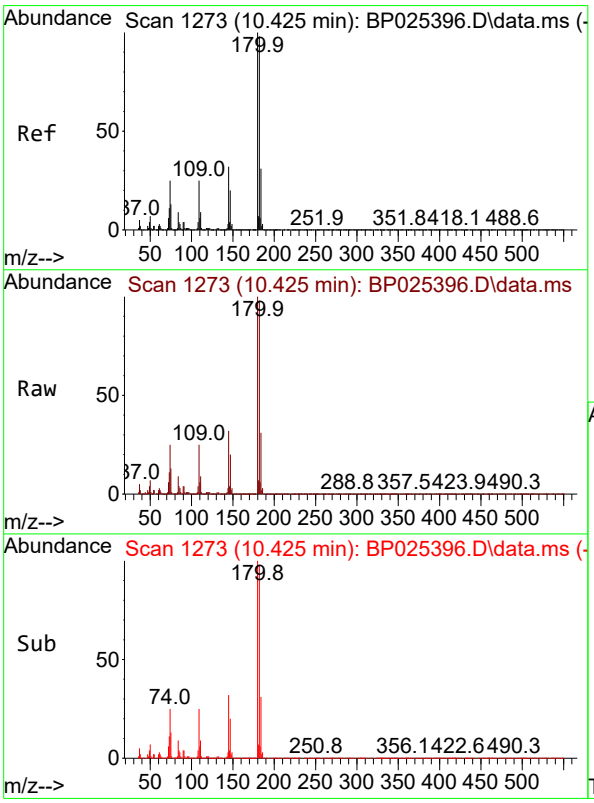
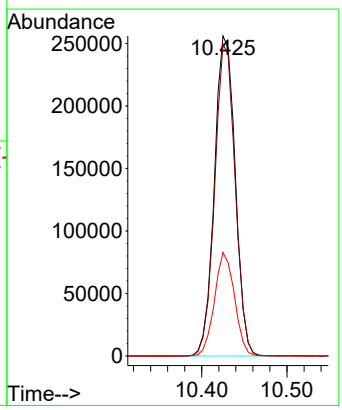


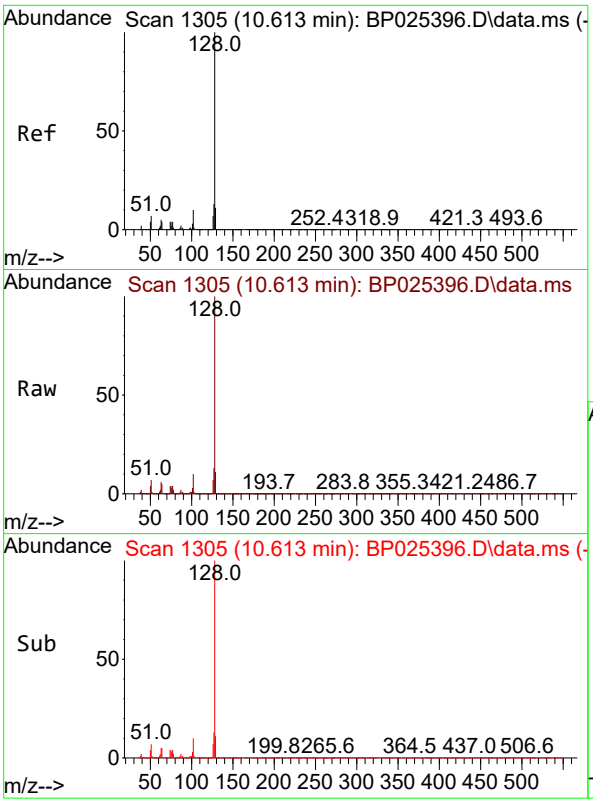


#30
1,2,4-Trichlorobenzene
Concen: 38.529 ng
RT: 10.425 min Scan# 1273
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:180 Resp: 434105

Ion	Ratio	Lower	Upper
180	100		
182	97.5	78.0	117.0
145	32.4	25.9	38.9

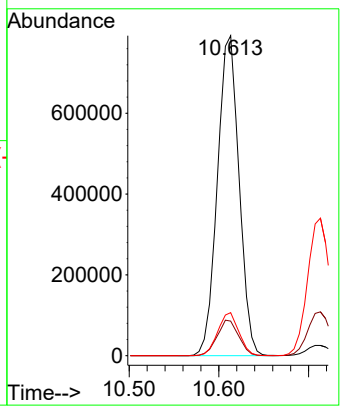




#31
Naphthalene
Concen: 38.472 ng
RT: 10.613 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:128 Resp: 132683

Ion	Ratio	Lower	Upper
128	100		
129	10.8	8.6	13.0
127	13.4	10.7	16.1



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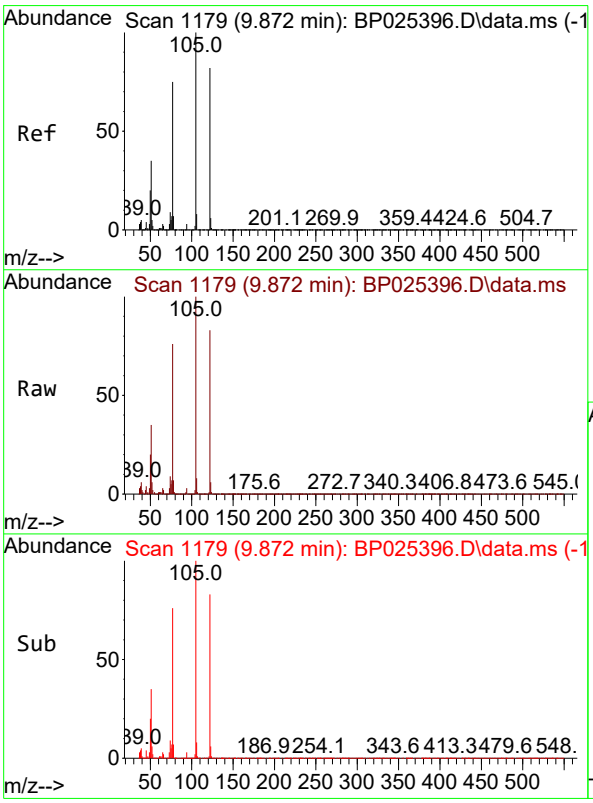
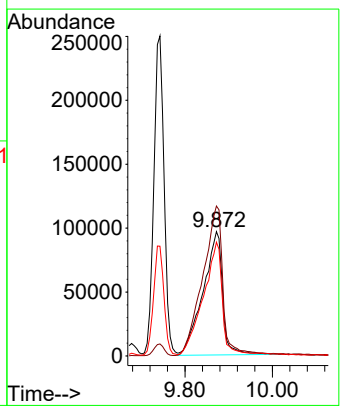
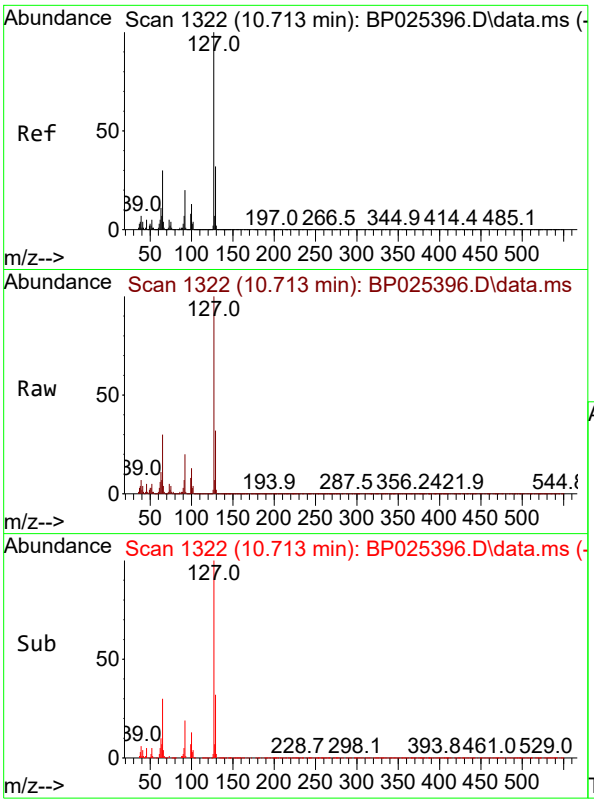


#32
Benzoic acid
Concen: 39.537 ng
RT: 9.872 min Scan# 1179
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:122 Resp: 301281

Ion	Ratio	Lower	Upper
122	100		
105	120.6	100.6	140.6
77	91.5	71.5	111.5

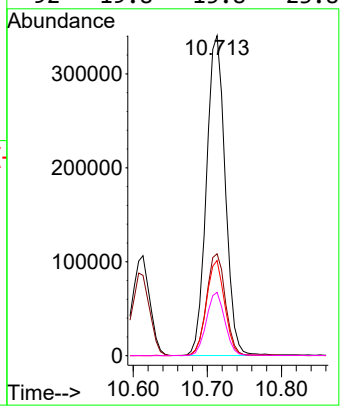




#33
4-Chloroaniline
Concen: 39.350 ng
RT: 10.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:127 Resp: 59946

Ion	Ratio	Lower	Upper
127	100		
129	31.8	25.4	38.2
65	29.7	23.8	35.6
92	19.8	15.8	23.8



Instrument :
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ClientSampleId :
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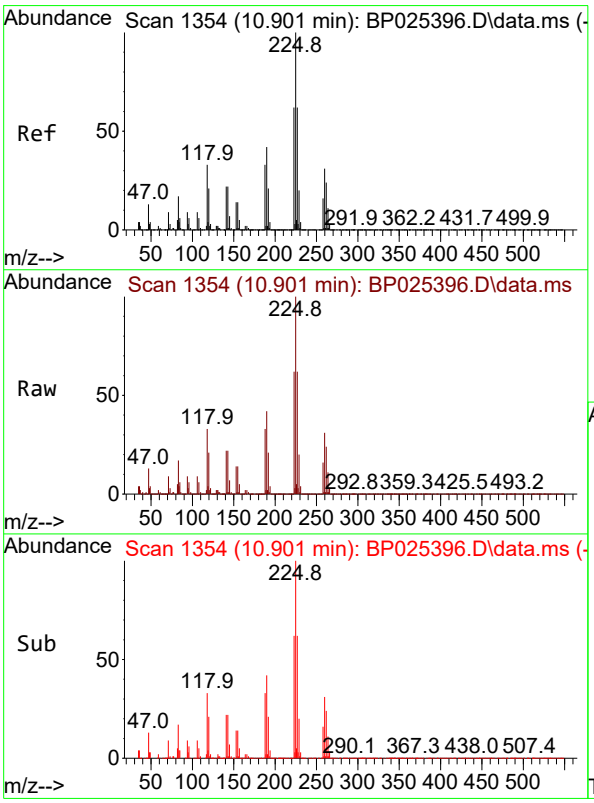
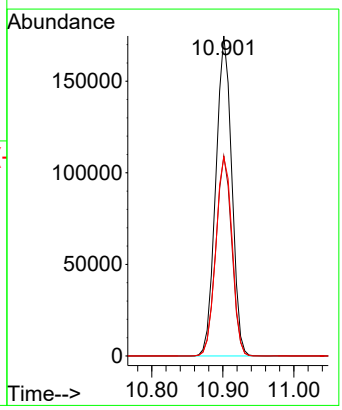
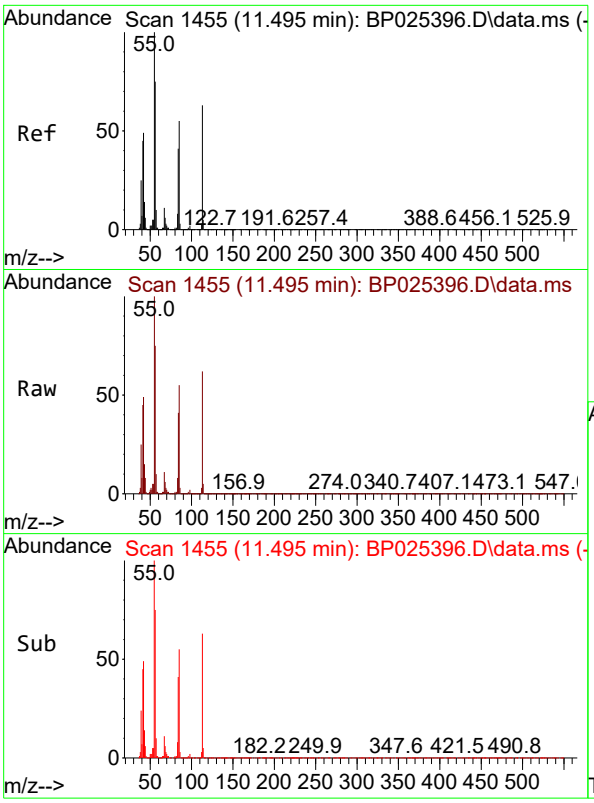


#34
Hexachlorobutadiene
Concen: 38.700 ng
RT: 10.901 min Scan# 1354
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:225 Resp: 271549

Ion	Ratio	Lower	Upper
225	100		
223	62.5	50.0	75.0
227	62.1	49.7	74.5





#35
Caprolactam
Concen: 38.520 ng
RT: 11.495 min Scan# 14
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:113 Resp: 14517

Ion	Ratio	Lower	Upper
113	100		
55	160.0	140.0	180.0
56	120.0	100.0	140.0

Instrument :
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ClientSampleId :
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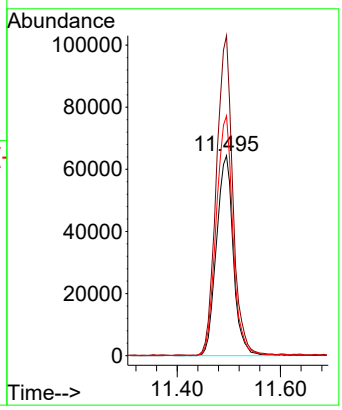
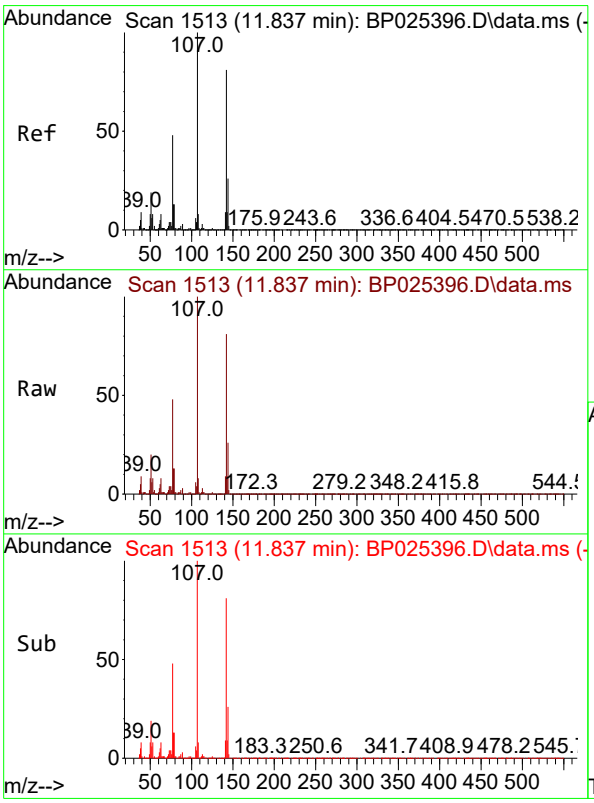
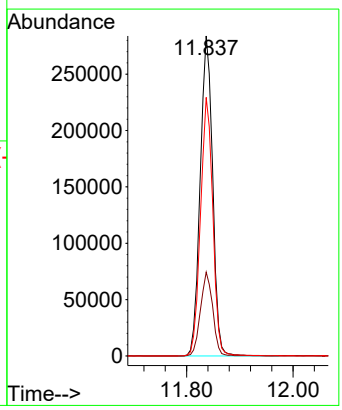


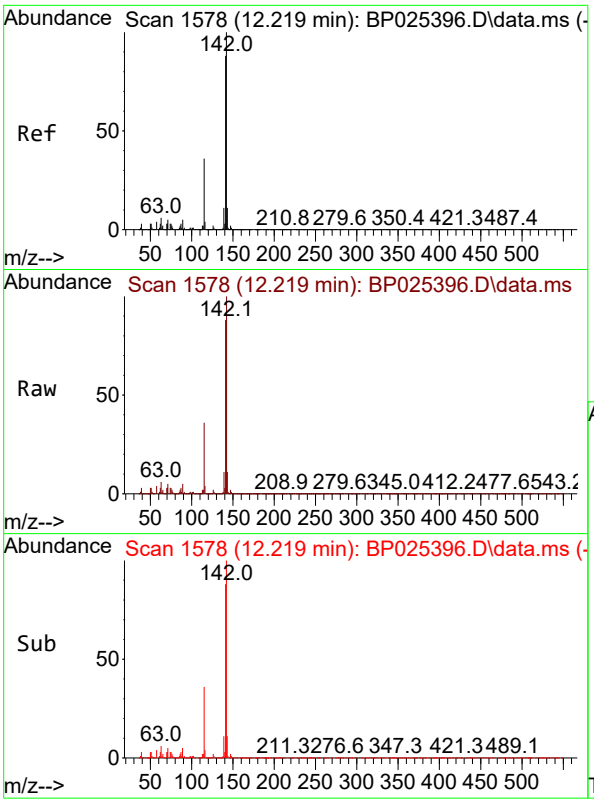


#36
4-Chloro-3-methylphenol
Concen: 38.959 ng
RT: 11.837 min Scan# 1513
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:107 Resp: 459473

Ion	Ratio	Lower	Upper
107	100		
144	26.2	21.0	31.4
142	80.8	64.6	97.0

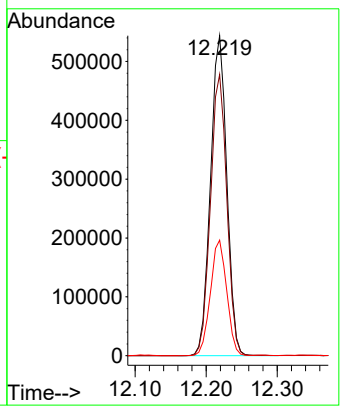




#37
2-Methylnaphthalene
Concen: 38.559 ng
RT: 12.219 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:142 Resp: 86542

Ion	Ratio	Lower	Upper
142	100		
141	87.9	70.3	105.5
115	36.1	28.9	43.3



Instrument :
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ClientSampleId :
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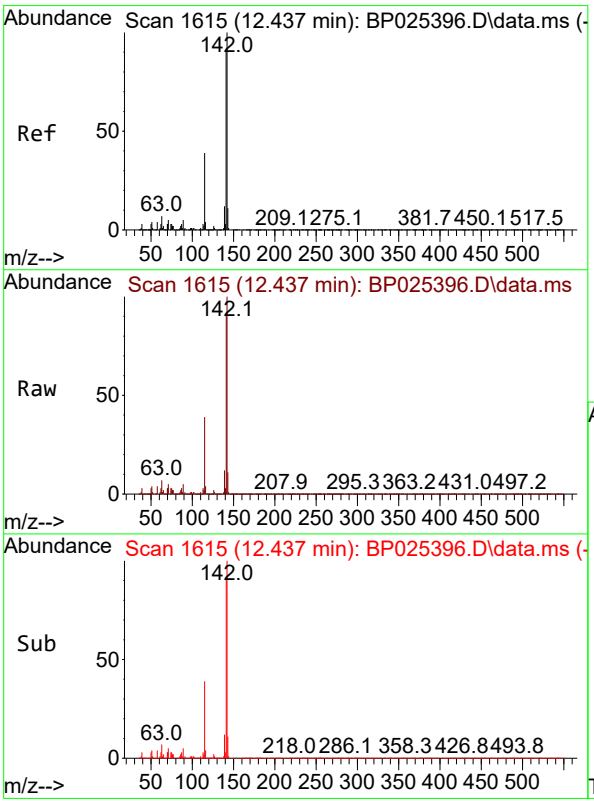
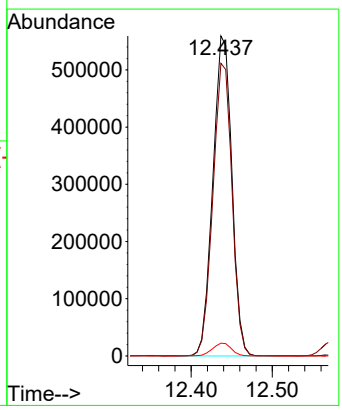
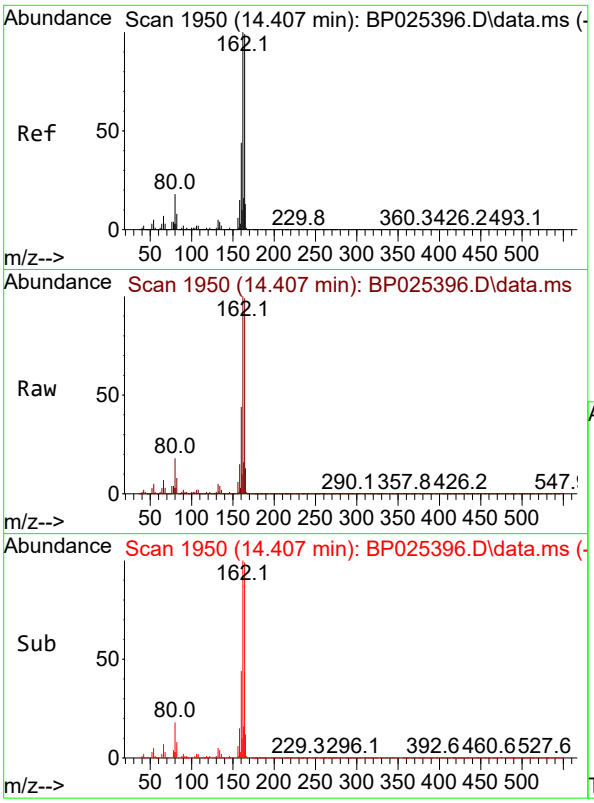


#38
1-Methylnaphthalene
Concen: 38.120 ng
RT: 12.437 min Scan# 1615
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:142 Resp: 909865

Ion	Ratio	Lower	Upper
142	100		
141	91.4	73.1	109.7
116	4.0	3.2	4.8

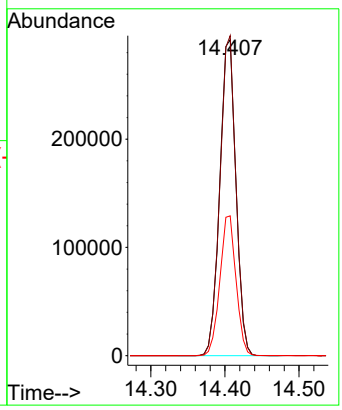




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.407 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:164 Resp: 44111

Ion	Ratio	Lower	Upper
164	100		
162	101.3	81.0	121.6
160	44.3	35.4	53.2



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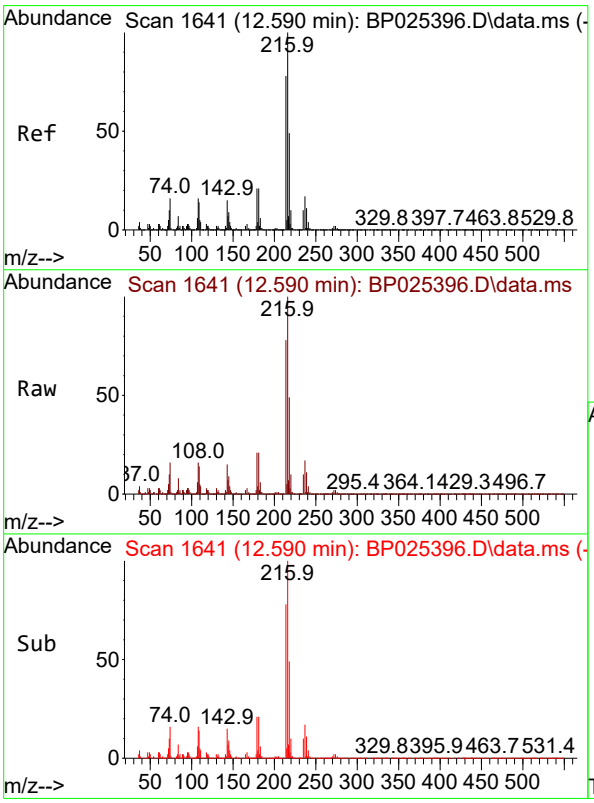
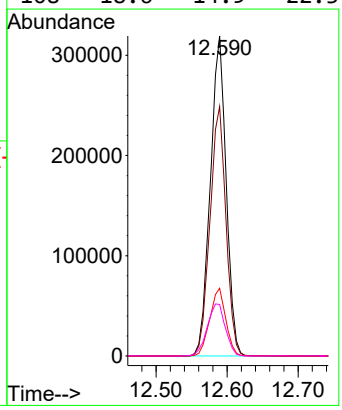
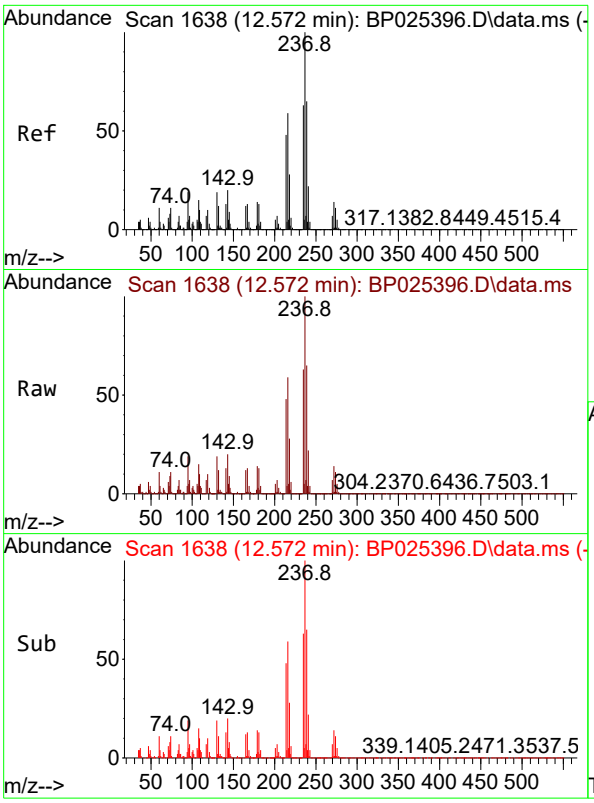


#40
1,2,4,5-Tetrachlorobenzene
Concen: 38.787 ng
RT: 12.590 min Scan# 1641
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:216 Resp: 494141

Ion	Ratio	Lower	Upper
216	100		
214	78.7	63.0	94.4
179	21.4	17.1	25.7
108	18.6	14.9	22.3





#41
Hexachlorocyclopentadiene
Concen: 39.896 ng
RT: 12.572 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:237 Resp: 30701

Ion	Ratio	Lower	Upper
237	100		
235	62.7	42.7	82.7
272	14.0	0.0	34.0

Instrument :
BNA_P
ClientSampleId :
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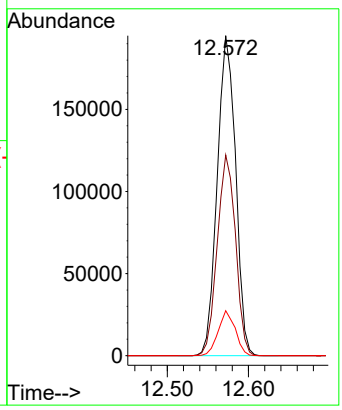
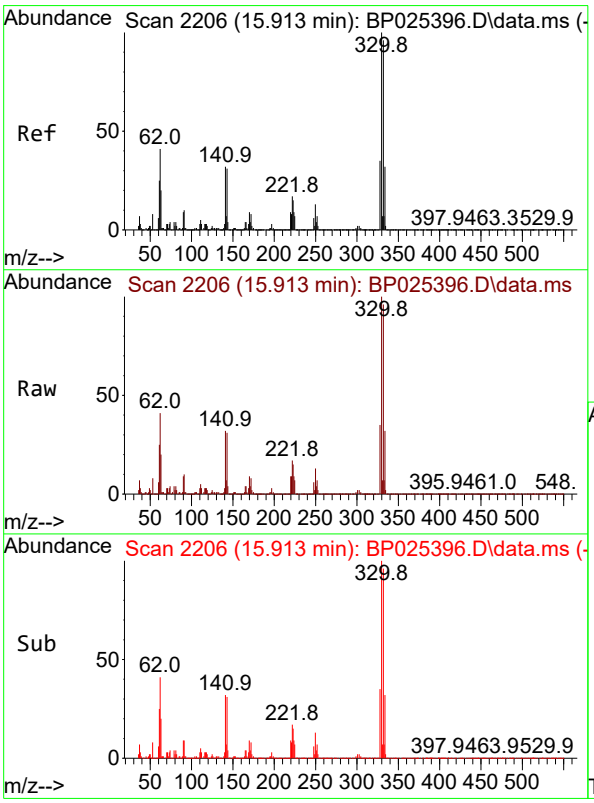
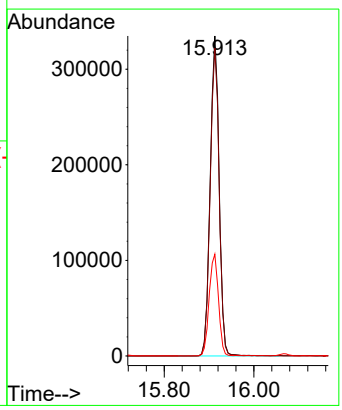


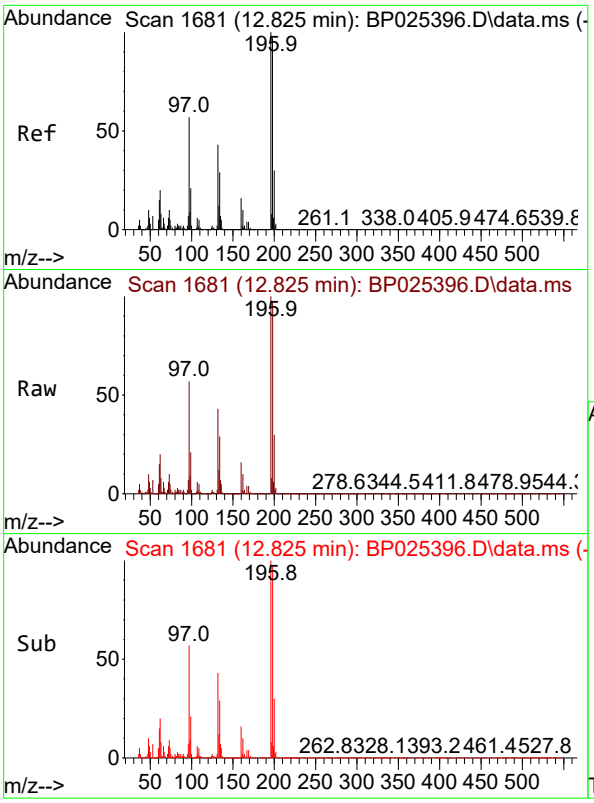


#42
2,4,6-Tribromophenol
Concen: 78.112 ng
RT: 15.913 min Scan# 2206
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:330 Resp: 463783

Ion	Ratio	Lower	Upper
330	100		
332	96.6	77.3	115.9
141	33.2	26.6	39.8

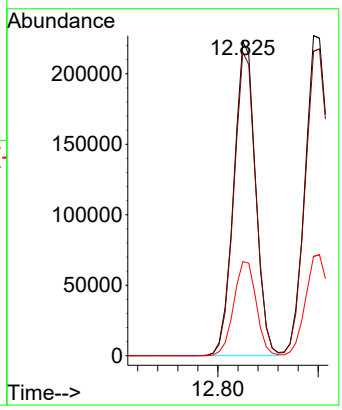




#43
2,4,6-Trichlorophenol
Concen: 39.201 ng
RT: 12.825 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:196 Resp: 33715

Ion	Ratio	Lower	Upper
196	100		
198	96.5	77.2	115.8
200	29.9	23.9	35.9



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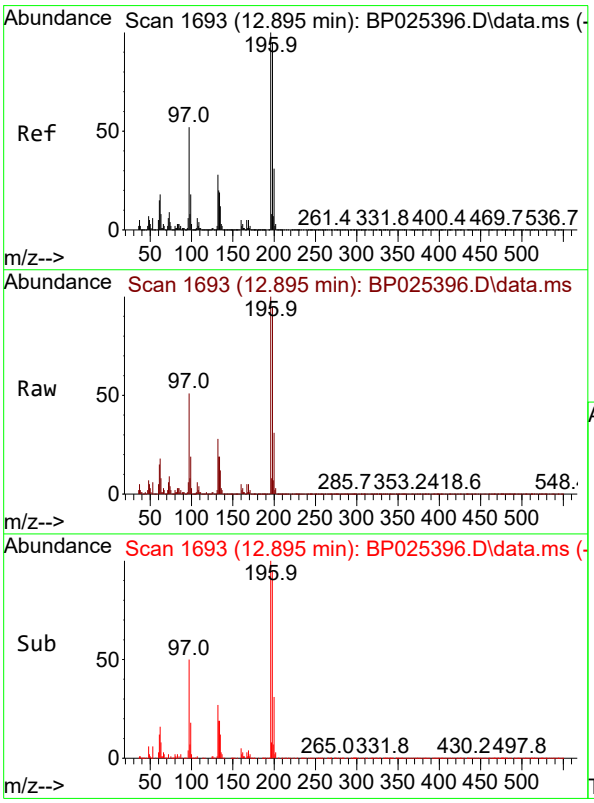
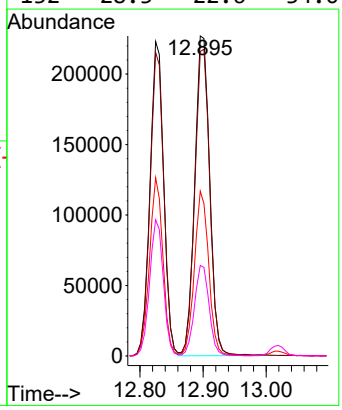
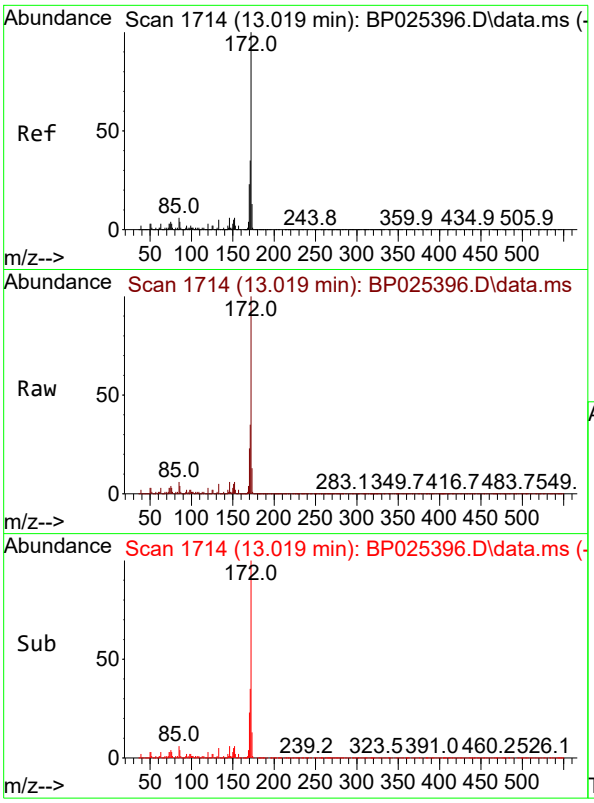


#44
2,4,5-Trichlorophenol
Concen: 39.664 ng
RT: 12.895 min Scan# 1693
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:196 Resp: 373880

Ion	Ratio	Lower	Upper
196	100		
198	95.2	76.2	114.2
97	51.5	41.2	61.8
132	28.3	22.6	34.0

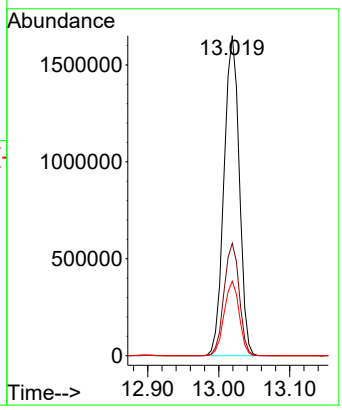




#45
2-Fluorobiphenyl
Concen: 76.118 ng
RT: 13.019 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:172 Resp: 245678

Ion	Ratio	Lower	Upper
172	100		
171	35.1	28.1	42.1
170	23.3	18.6	28.0



Instrument :
BNA_P
ClientSampleId :
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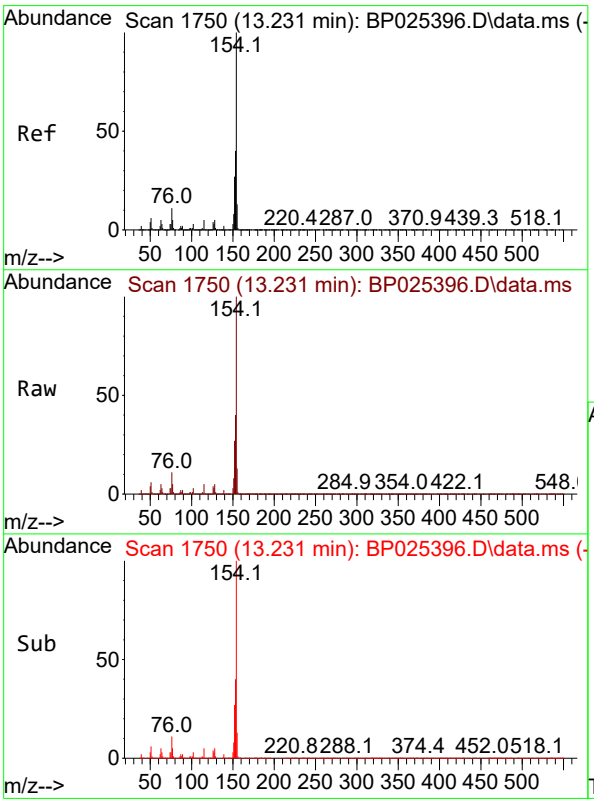
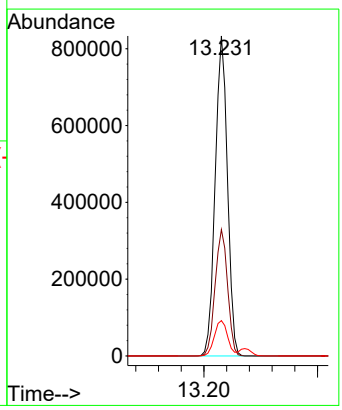
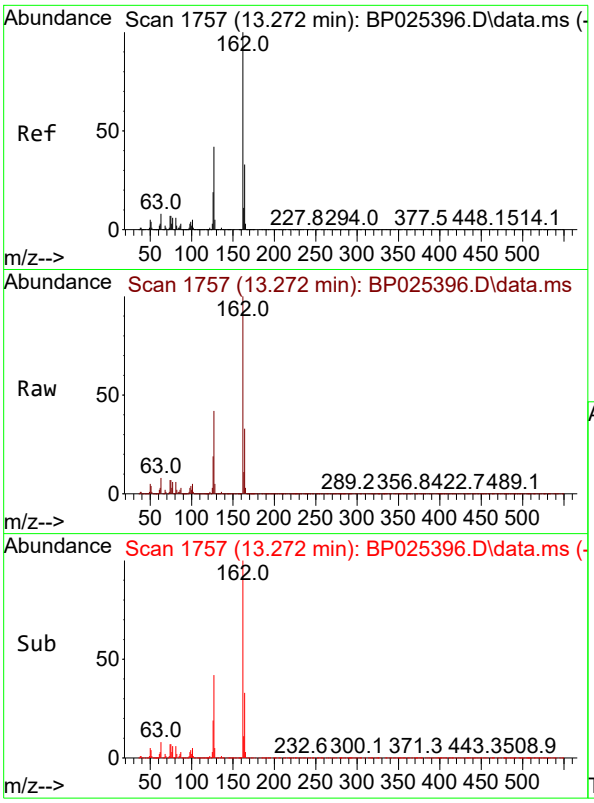


#46
1,1'-Biphenyl
Concen: 38.777 ng
RT: 13.231 min Scan# 1750
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:154 Resp: 1242247

Ion	Ratio	Lower	Upper
154	100		
153	39.5	19.5	59.5
76	11.1	0.0	31.1

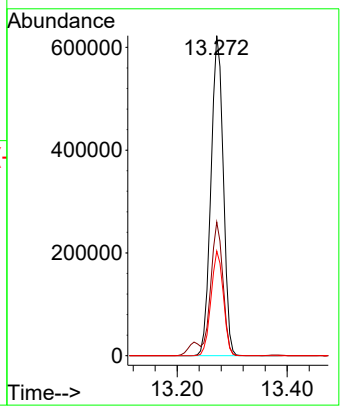




#47
2-Chloronaphthalene
Concen: 38.930 ng
RT: 13.272 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:162 Resp: 97090

Ion	Ratio	Lower	Upper
162	100		
127	41.8	33.4	50.2
164	32.7	26.2	39.2



Instrument :
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ClientSampleId :
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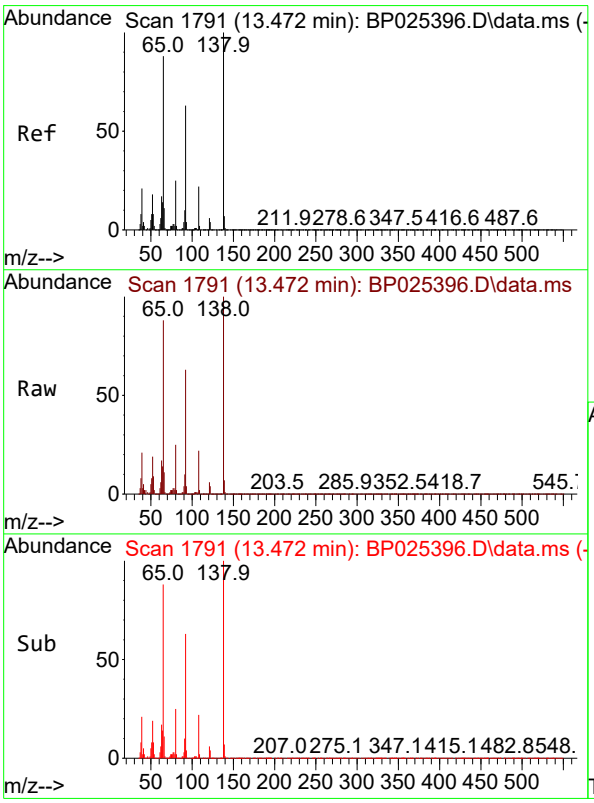
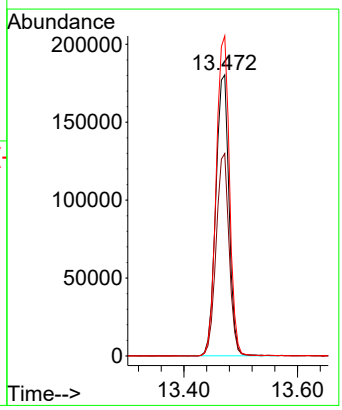
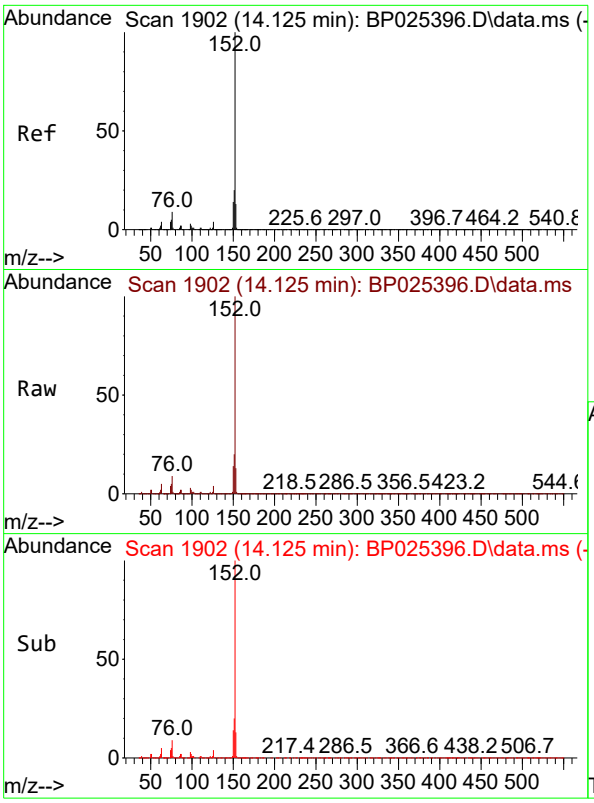


#48
2-Nitroaniline
Concen: 40.092 ng
RT: 13.472 min Scan# 1791
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion: 65 Resp: 291341

Ion	Ratio	Lower	Upper
65	100		
92	72.0	57.6	86.4
138	113.8	91.0	136.6

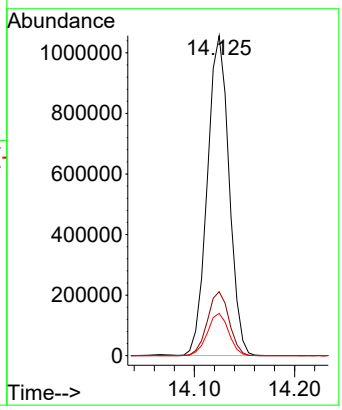




#49
Acenaphthylene
Concen: 38.617 ng
RT: 14.125 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:152 Resp: 159363

Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.0	24.0
153	13.2	10.6	15.8



Instrument :
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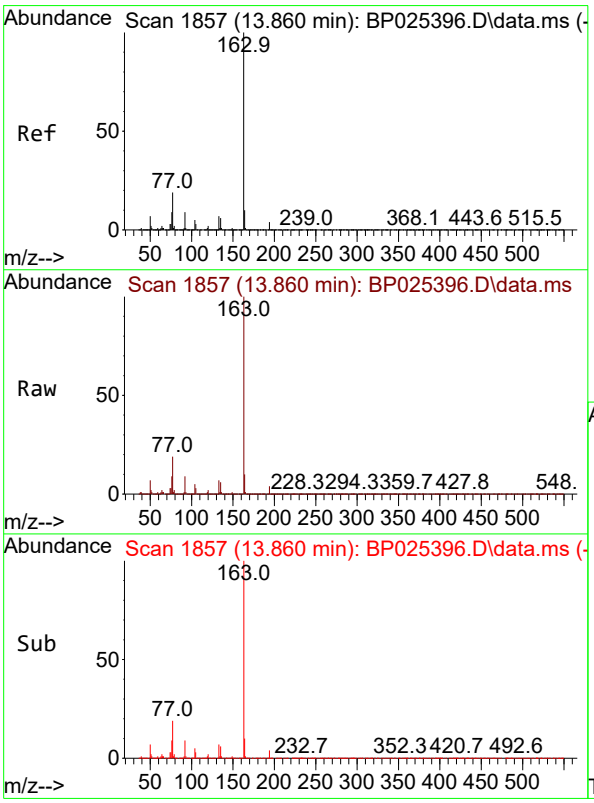
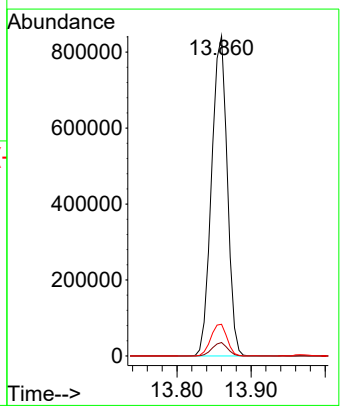
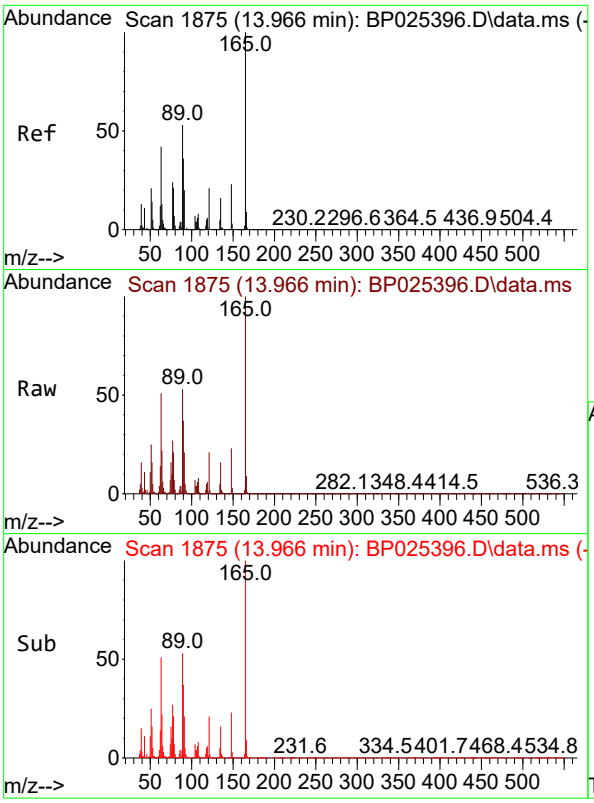


#50
Dimethylphthalate
Concen: 38.316 ng
RT: 13.860 min Scan# 1857
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:163 Resp: 1237666

Ion	Ratio	Lower	Upper
163	100		
194	4.2	3.4	5.0
164	9.9	7.9	11.9





#51
2,6-Dinitrotoluene
Concen: 40.061 ng
RT: 13.966 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:165 Resp: 27275

Ion	Ratio	Lower	Upper
165	100		
63	51.1	40.9	61.3
89	52.6	42.1	63.1

Instrument :
BNA_P
ClientSampleId :
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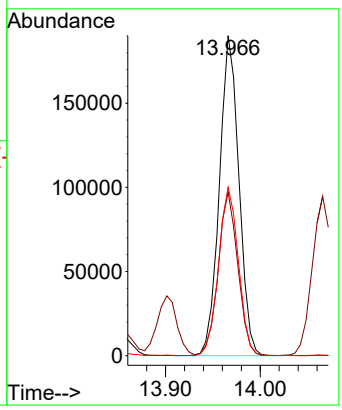
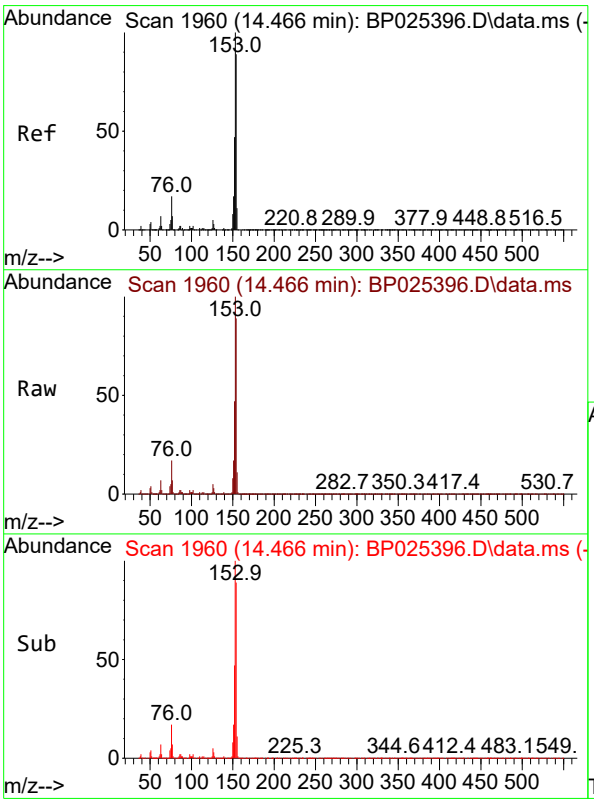
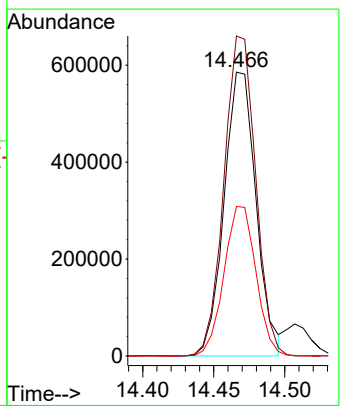


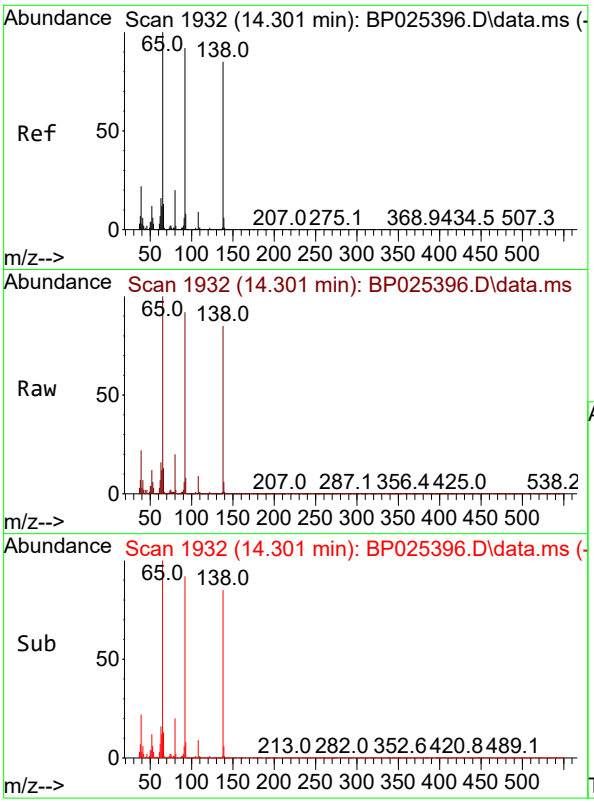


#52
Acenaphthene
Concen: 37.921 ng
RT: 14.466 min Scan# 1960
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:154 Resp: 918569

Ion	Ratio	Lower	Upper
154	100		
153	112.7	90.2	135.2
152	52.6	42.1	63.1

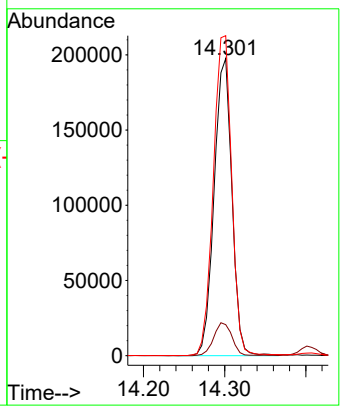




#53
3-Nitroaniline
Concen: 39.349 ng
RT: 14.301 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:138 Resp: 30141

Ion	Ratio	Lower	Upper
138	100		
108	10.4	8.3	12.5
92	107.7	86.2	129.2



Instrument :
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ClientSampleId :
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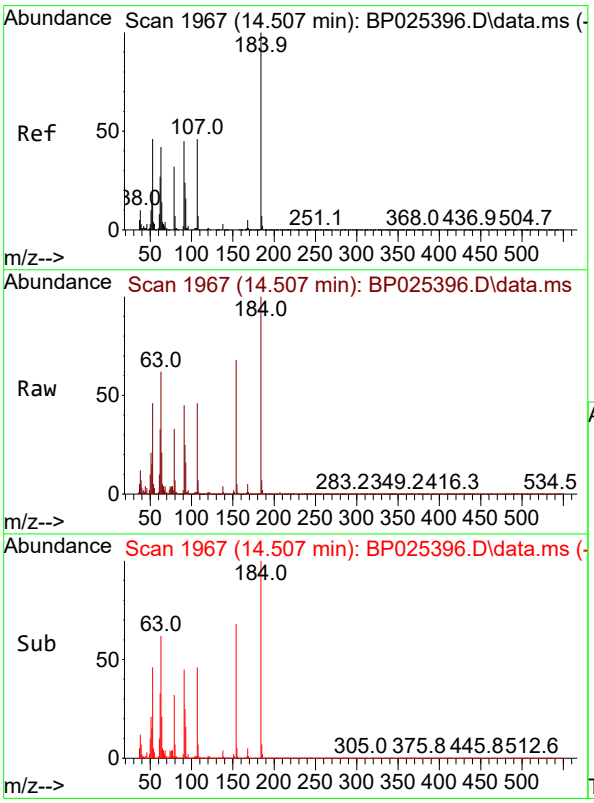
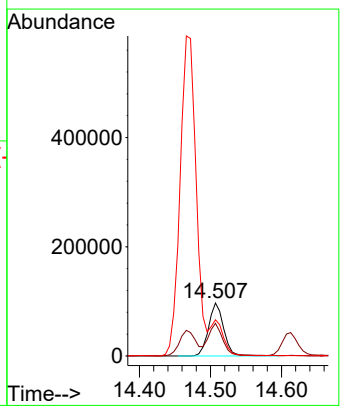
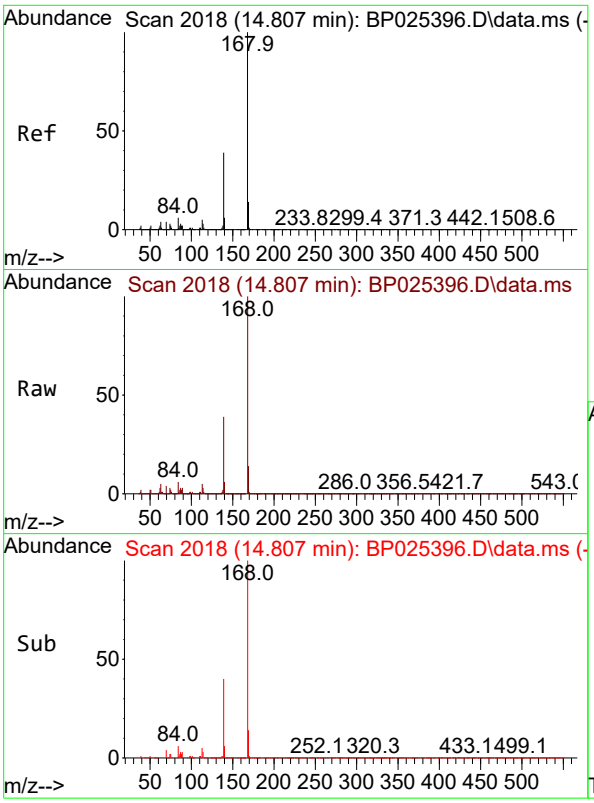


#54
2,4-Dinitrophenol
Concen: 39.633 ng
RT: 14.507 min Scan# 1967
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:184 Resp: 144100

Ion	Ratio	Lower	Upper
184	100		
63	61.8	49.4	74.2
154	68.3	54.6	82.0

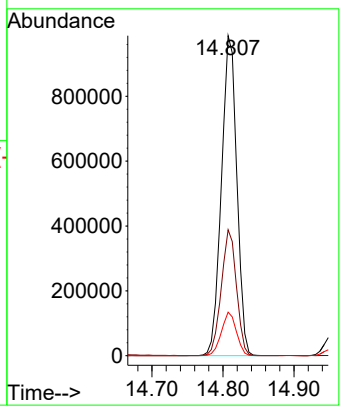




#55
Dibenzofuran
Concen: 38.624 ng
RT: 14.807 min Scan# 2(
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:168 Resp: 147922(

Ion	Ratio	Lower	Upper
168	100		
139	39.4	31.5	47.3
169	13.6	10.9	16.3



Instrument :
BNA_P
ClientSampleId :
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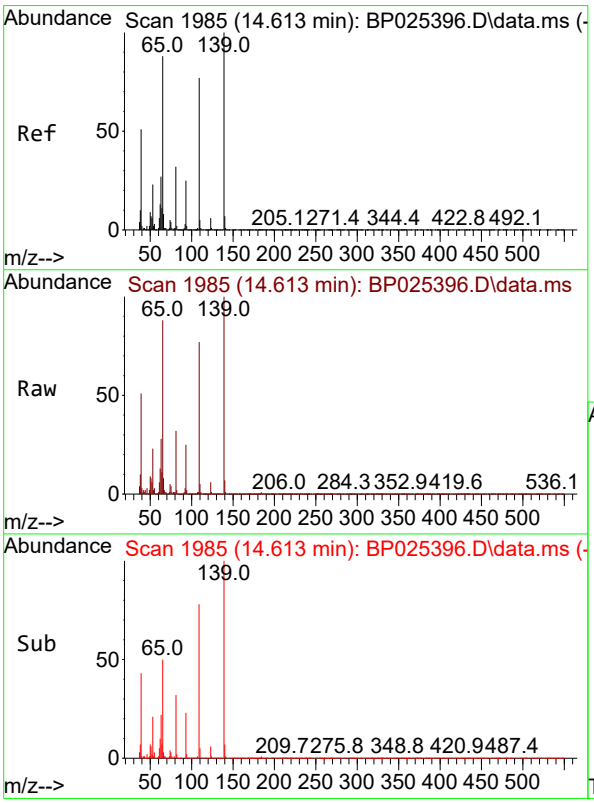
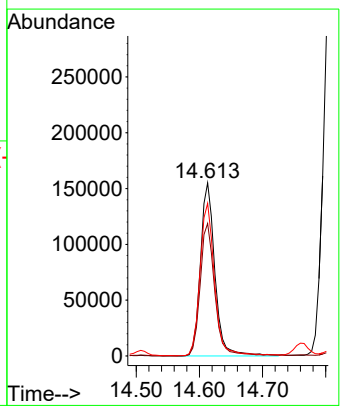
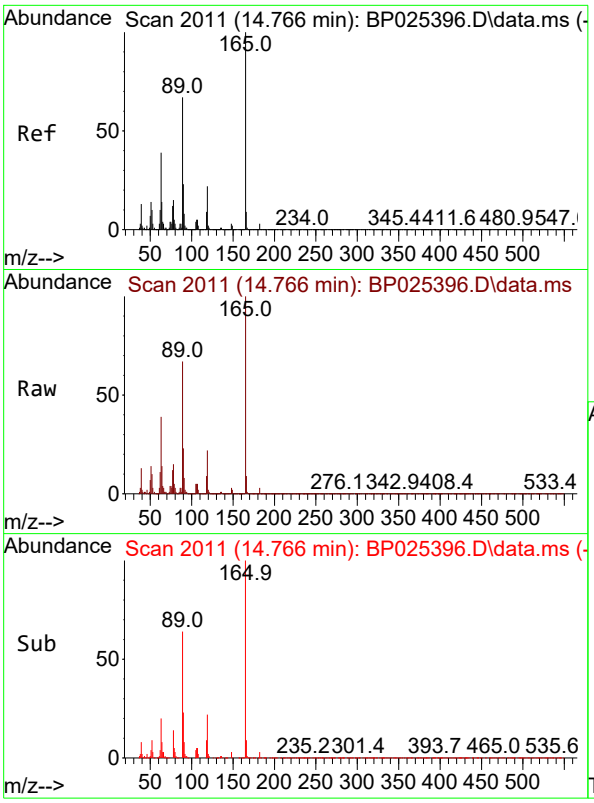


#56
4-Nitrophenol
Concen: 39.168 ng
RT: 14.613 min Scan# 1985
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:139 Resp: 246542

Ion	Ratio	Lower	Upper
139	100		
109	76.6	56.6	96.6
65	88.2	68.2	108.2

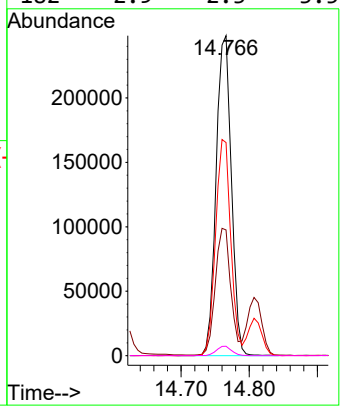




#57
2,4-Dinitrotoluene
Concen: 39.757 ng
RT: 14.766 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:165 Resp: 38618

Ion	Ratio	Lower	Upper
165	100		
63	39.3	31.4	47.2
89	66.6	53.3	79.9
182	2.9	2.3	3.5



Instrument :
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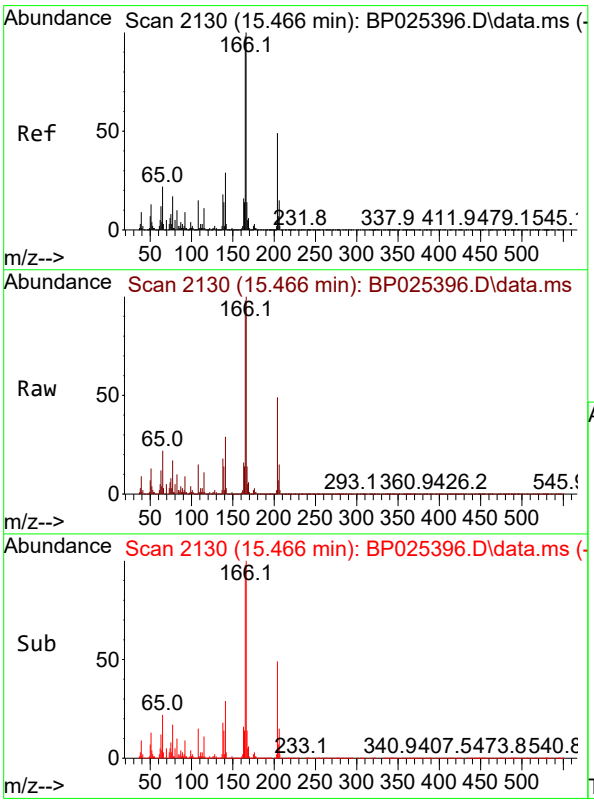
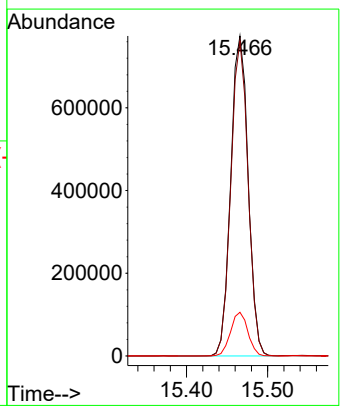
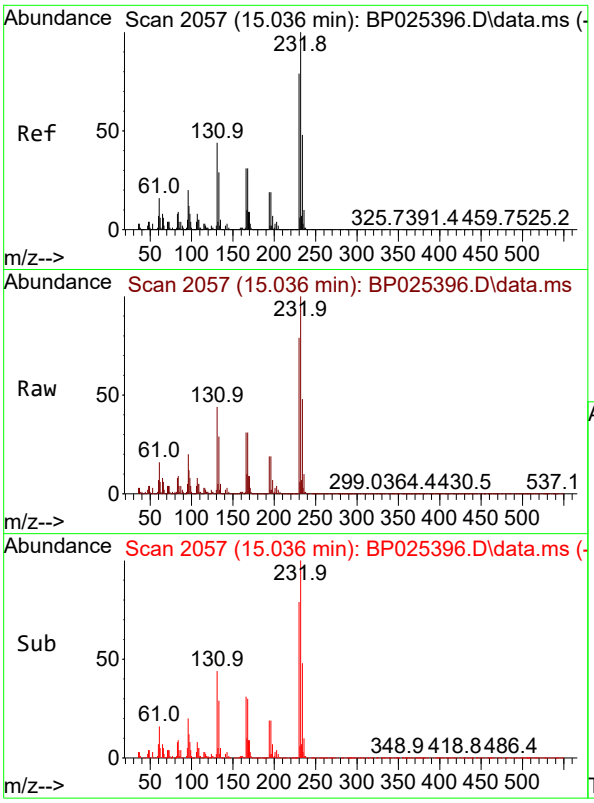


#58
Fluorene
Concen: 38.115 ng
RT: 15.466 min Scan# 2130
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:166 Resp: 1151825

Ion	Ratio	Lower	Upper
166	100		
165	98.5	78.8	118.2
167	13.7	11.0	16.4

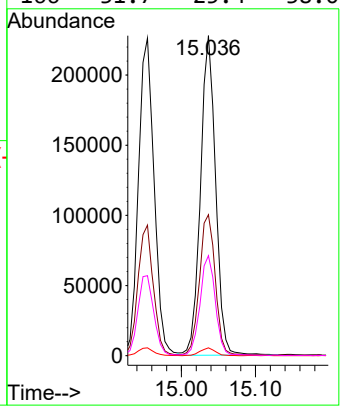




#59
2,3,4,6-Tetrachlorophenol
Concen: 38.975 ng
RT: 15.036 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:232 Resp: 32439

Ion	Ratio	Lower	Upper
232	100		
131	46.3	37.0	55.6
130	2.4	1.9	2.9
166	31.7	25.4	38.0



Instrument :
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ClientSampleId :
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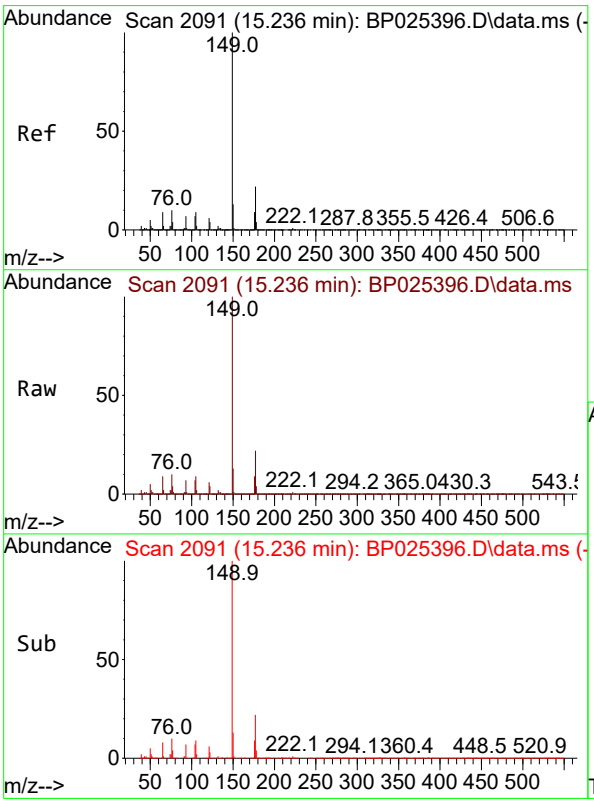
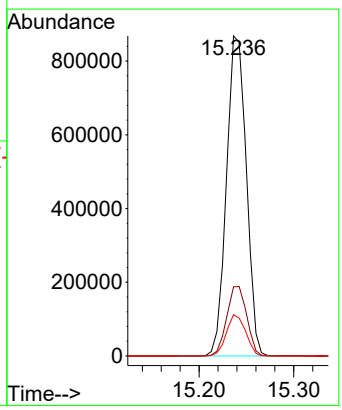
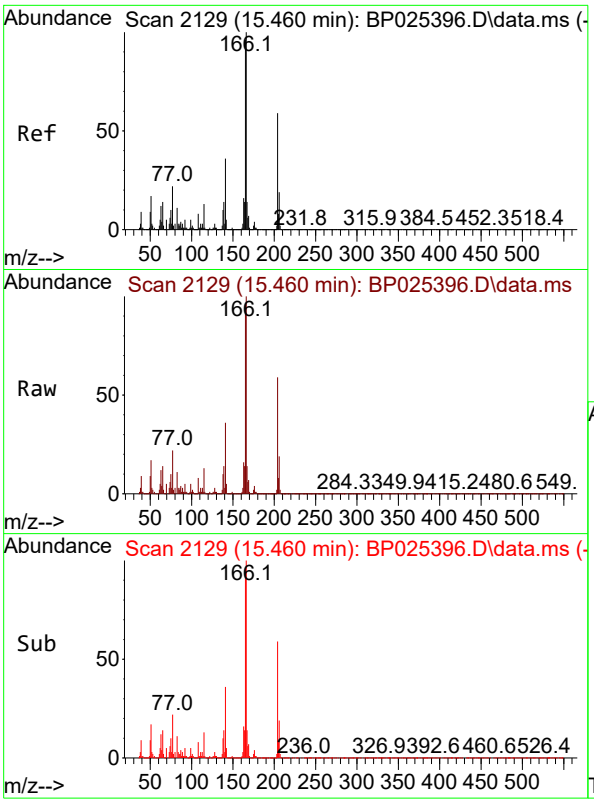


#60
Diethylphthalate
Concen: 38.533 ng
RT: 15.236 min Scan# 2091
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:149 Resp: 1264740

Ion	Ratio	Lower	Upper
149	100		
177	21.6	17.3	25.9
150	12.9	10.3	15.5

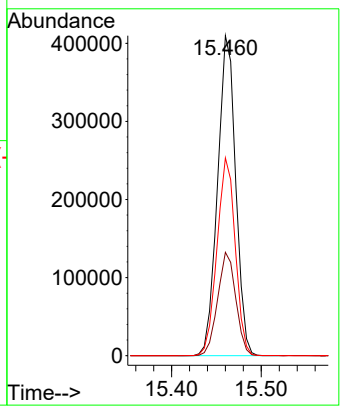




#61
4-Chlorophenyl-phenylether
Concen: 38.228 ng
RT: 15.460 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:204 Resp: 57454

Ion	Ratio	Lower	Upper
204	100		
206	32.3	25.8	38.8
141	61.8	49.4	74.2



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

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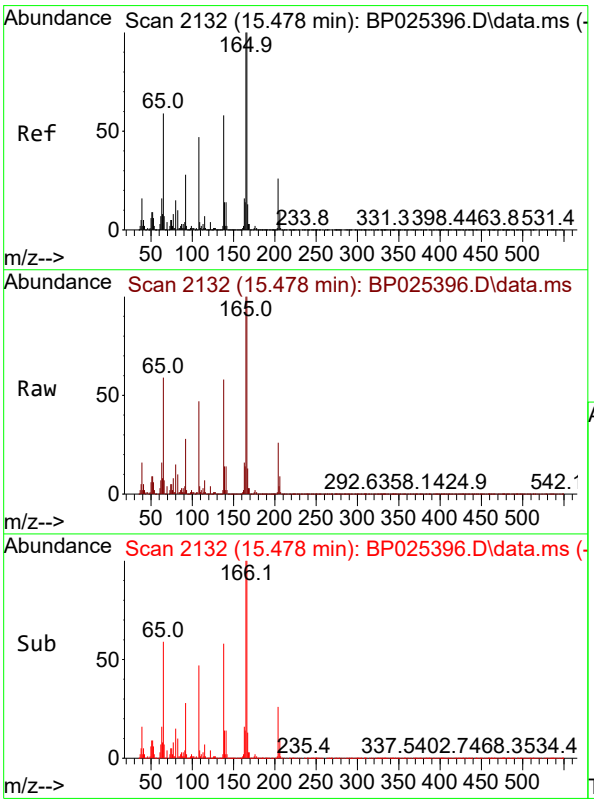
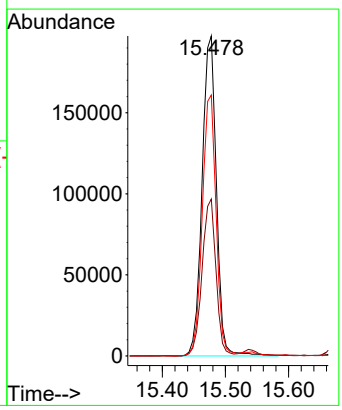
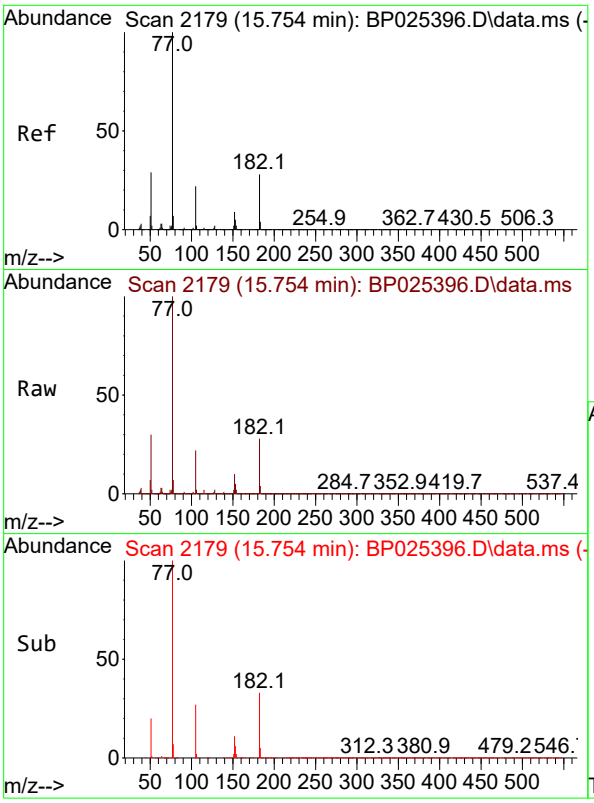


#62
4-Nitroaniline
Concen: 39.443 ng
RT: 15.478 min Scan# 2132
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:138 Resp: 309740

Ion	Ratio	Lower	Upper
138	100		
92	49.1	29.1	69.1
108	81.5	61.5	101.5

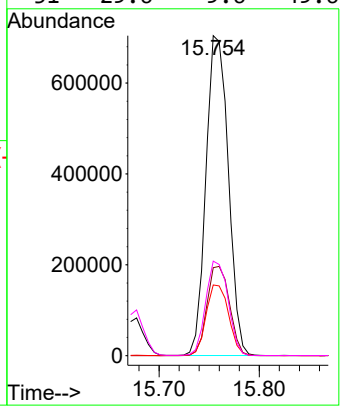




#63
Azobenzene
Concen: 38.820 ng
RT: 15.754 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion: 77 Resp: 109100

Ion	Ratio	Lower	Upper
77	100		
182	27.5	7.5	47.5
105	22.1	2.1	42.1
51	29.6	9.6	49.6



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

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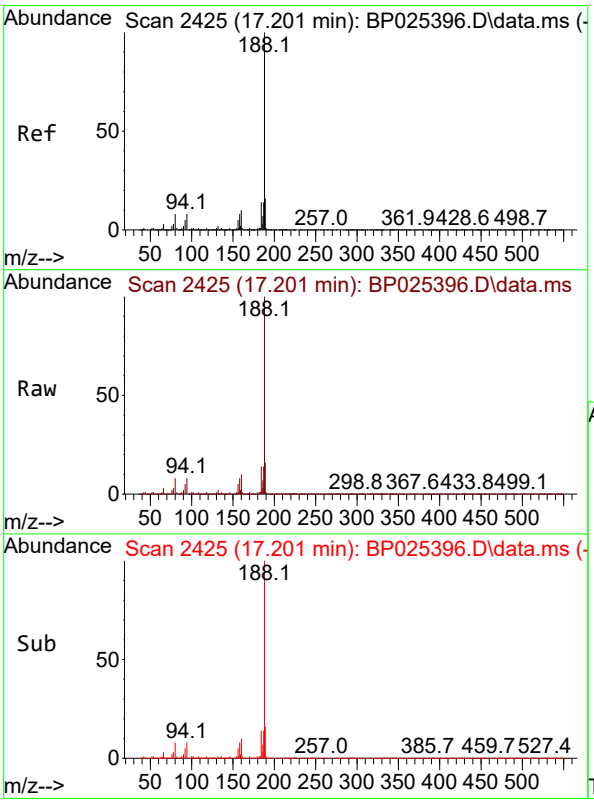
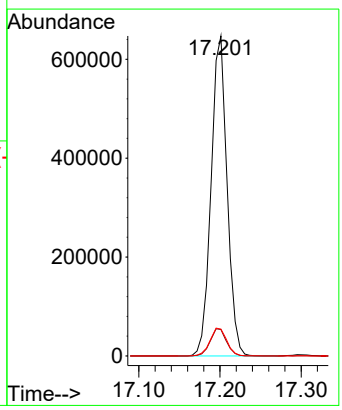
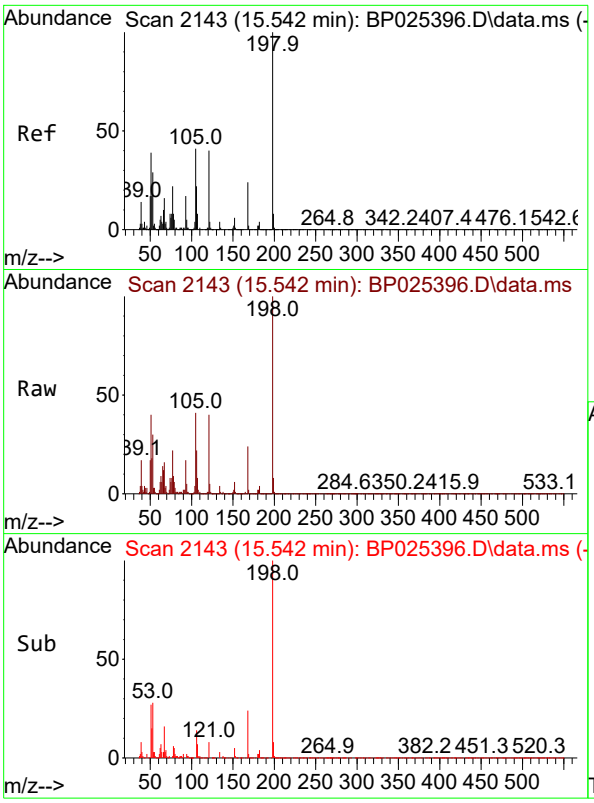


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.201 min Scan# 2425
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:188 Resp: 884529

Ion	Ratio	Lower	Upper
188	100		
94	8.3	6.6	10.0
80	8.4	6.7	10.1





#65
4,6-Dinitro-2-methylphenol
Concen: 39.384 ng
RT: 15.542 min Scan# 21
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:198 Resp: 21715

Ion	Ratio	Lower	Upper
198	100		
51	39.6	19.6	59.6
105	40.9	20.9	60.9

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

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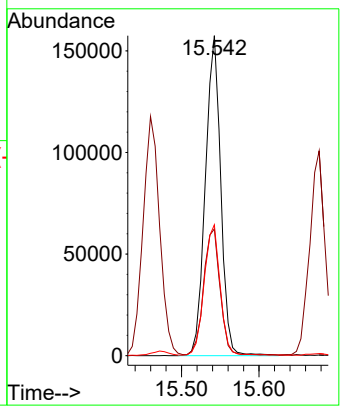
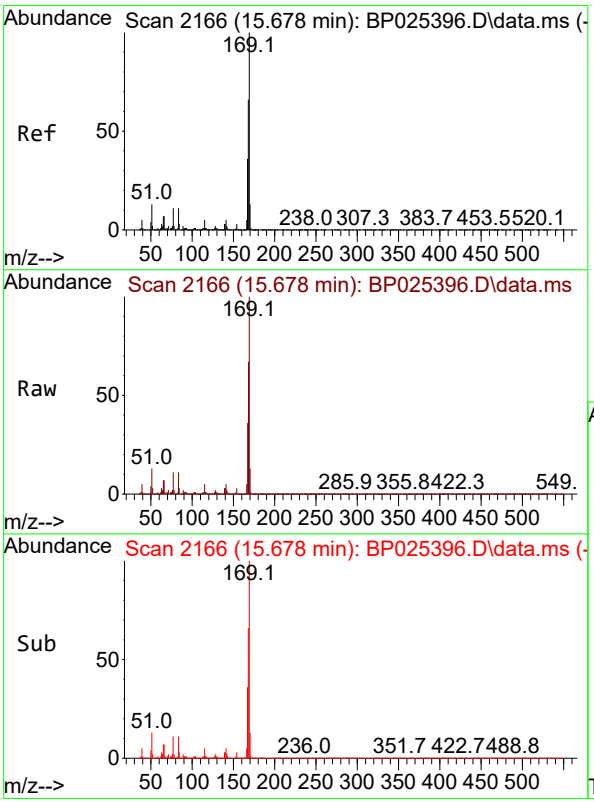
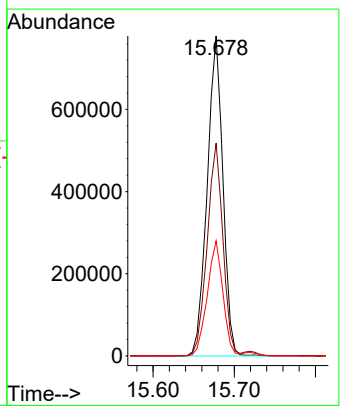


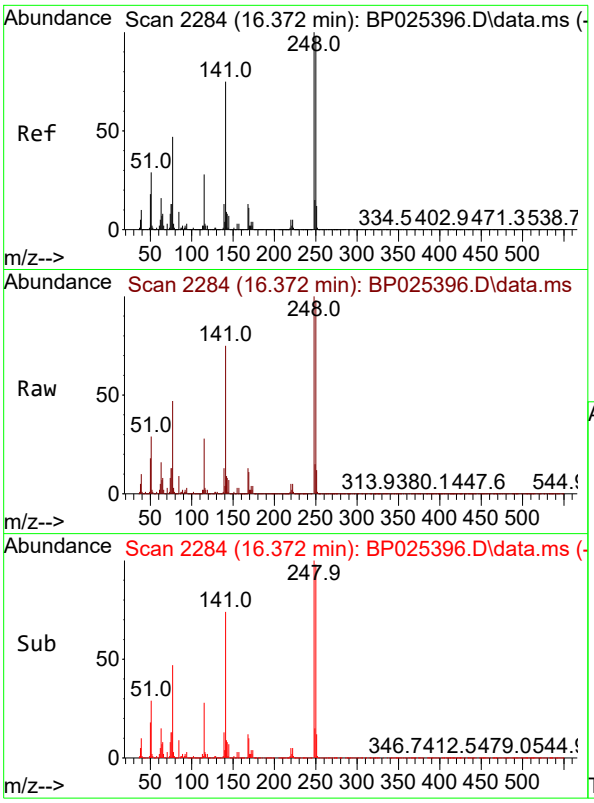


#66
n-Nitrosodiphenylamine
Concen: 38.749 ng
RT: 15.678 min Scan# 2166
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:169 Resp: 1045170

Ion	Ratio	Lower	Upper
169	100		
168	66.5	53.2	79.8
167	35.9	28.7	43.1





#67
4-Bromophenyl-phenylether
Concen: 38.739 ng
RT: 16.372 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:248 Resp: 37686

Ion	Ratio	Lower	Upper
248	100		
250	97.7	78.2	117.2
141	74.5	59.6	89.4

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

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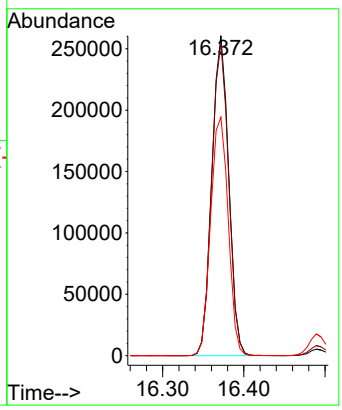
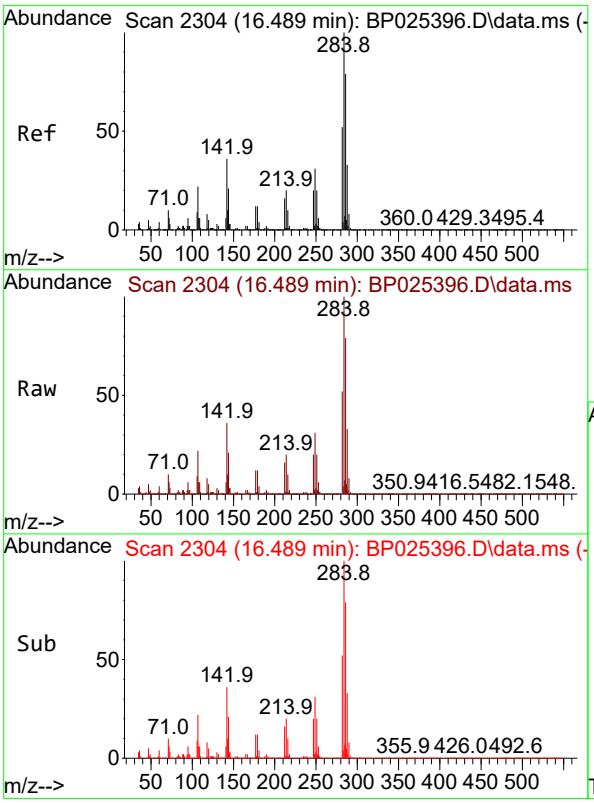
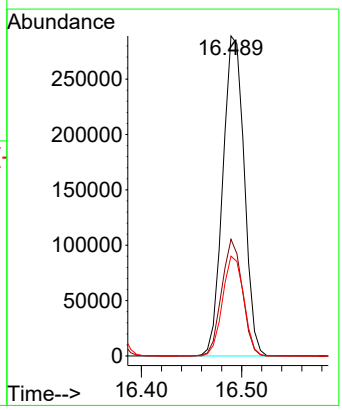


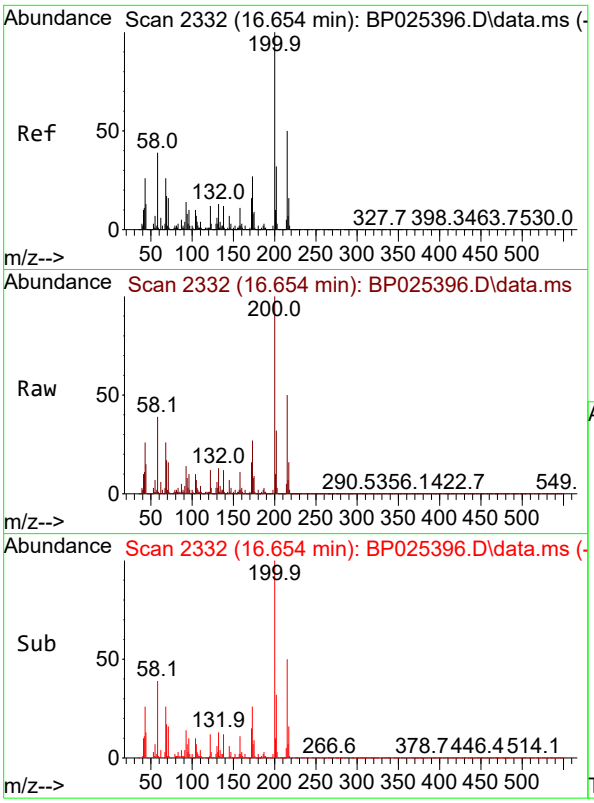


#68
Hexachlorobenzene
Concen: 37.986 ng
RT: 16.489 min Scan# 2304
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:284 Resp: 428361

Ion	Ratio	Lower	Upper
284	100		
142	36.4	29.1	43.7
249	31.2	25.0	37.4





#69
Atrazine
Concen: 38.238 ng
RT: 16.654 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:200 Resp: 38625

Ion	Ratio	Lower	Upper
200	100		
173	26.7	6.7	46.7
215	49.7	29.7	69.7

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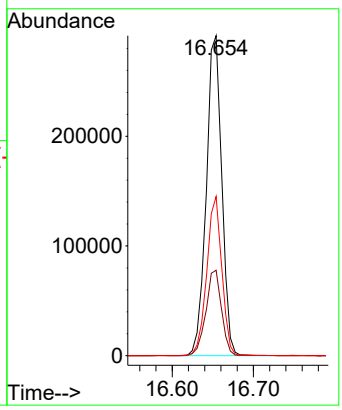
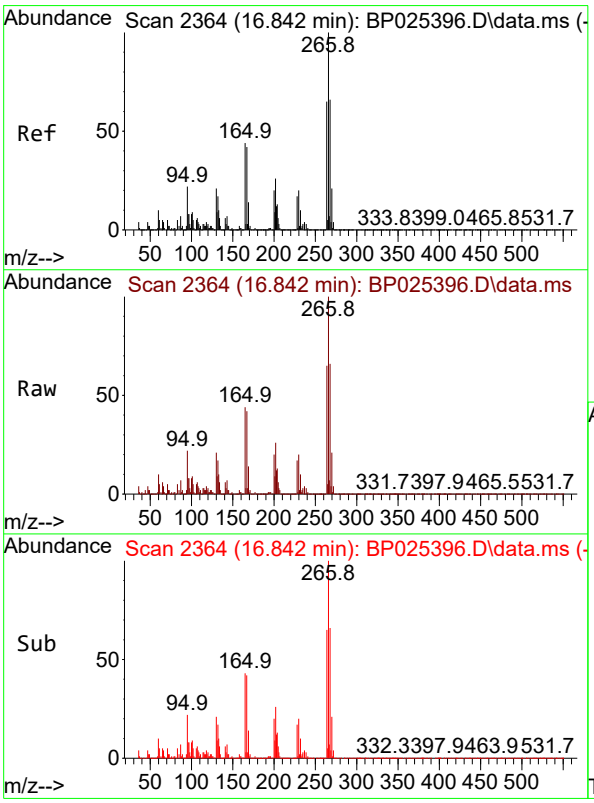
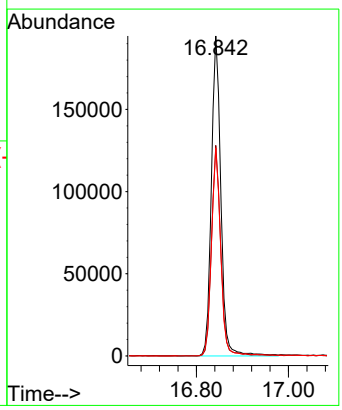


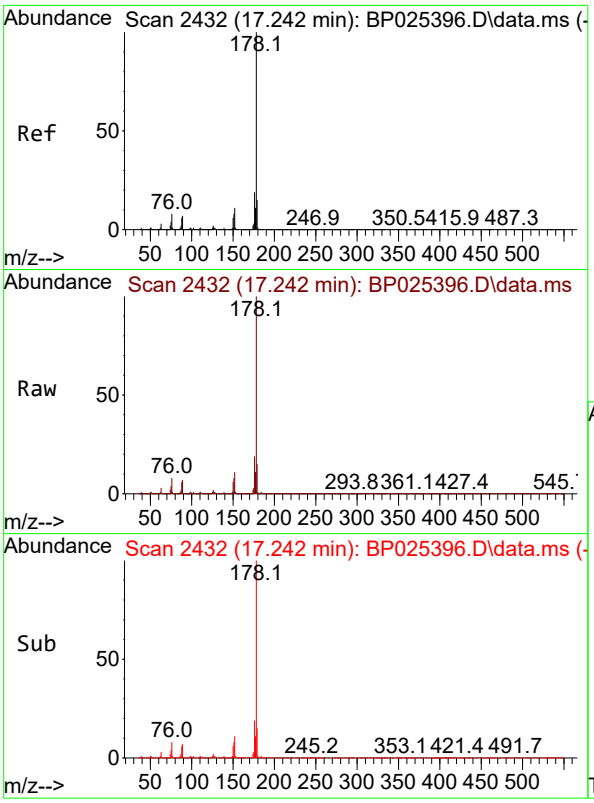


#70
Pentachlorophenol
Concen: 39.110 ng
RT: 16.842 min Scan# 2364
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:266 Resp: 278412

Ion	Ratio	Lower	Upper
266	100		
268	65.8	52.6	79.0
264	65.0	52.0	78.0

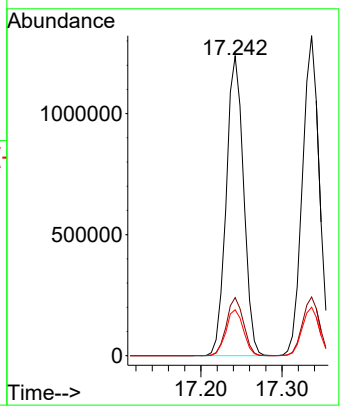




#71
Phenanthrene
Concen: 37.851 ng
RT: 17.242 min Scan# 24
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:178 Resp: 183919

Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.5	23.3
179	15.3	12.2	18.4



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

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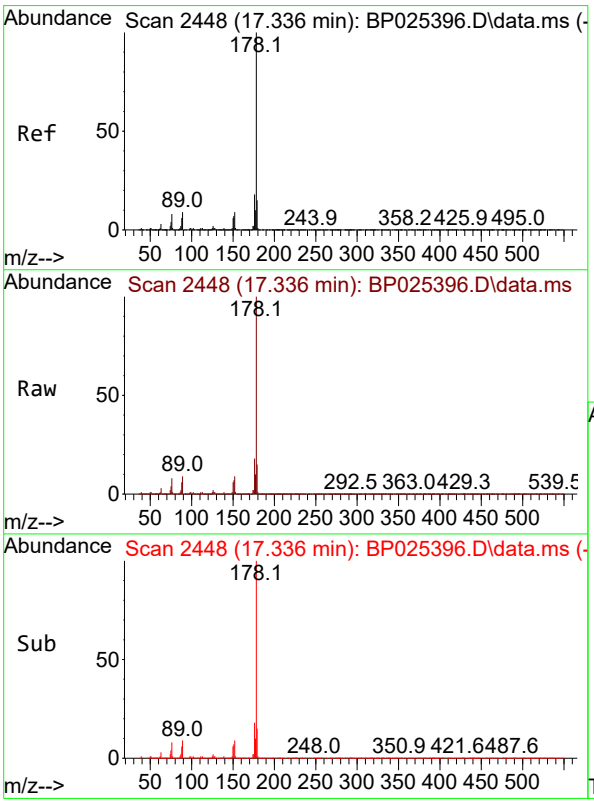
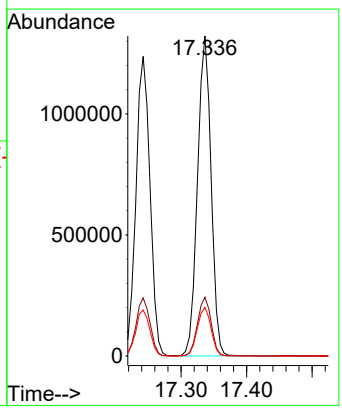
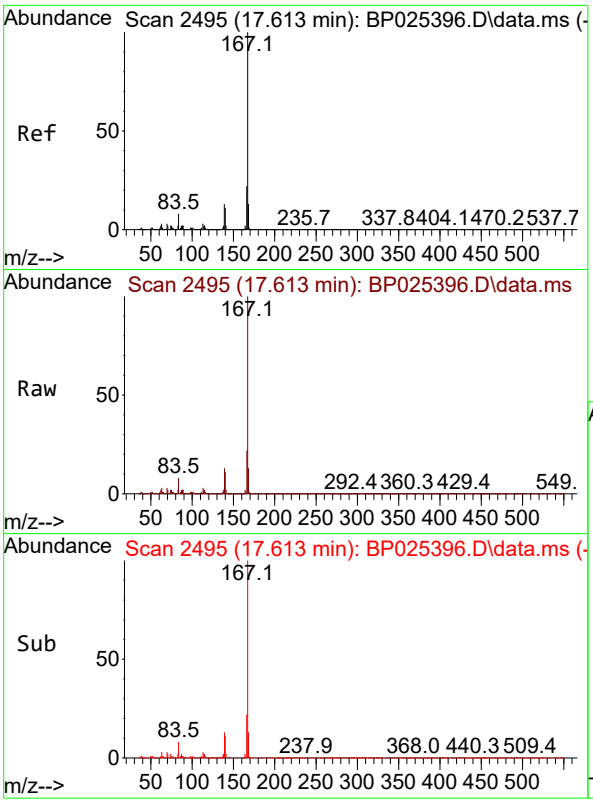


#72
Anthracene
Concen: 38.456 ng
RT: 17.336 min Scan# 2448
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:178 Resp: 1908189

Ion	Ratio	Lower	Upper
178	100		
176	18.4	14.7	22.1
179	15.2	12.2	18.2





#73
Carbazole
Concen: 38.125 ng
RT: 17.613 min Scan# 24
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:167 Resp: 178189

Ion	Ratio	Lower	Upper
167	100		
166	21.9	17.5	26.3
139	13.3	10.6	16.0

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

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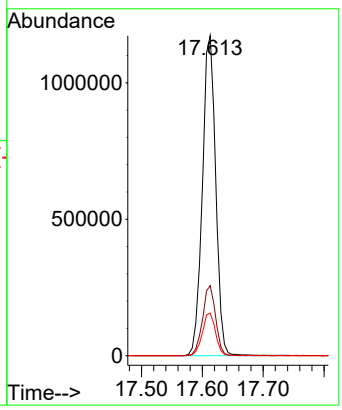
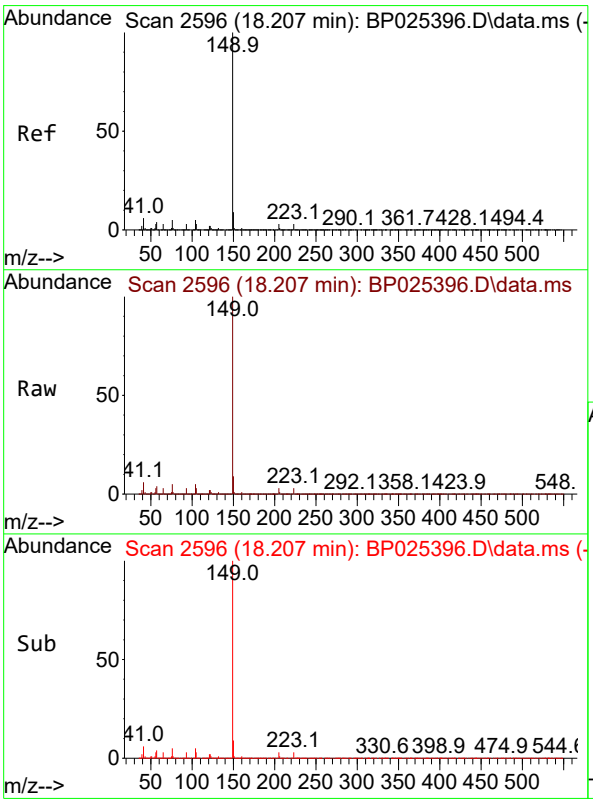
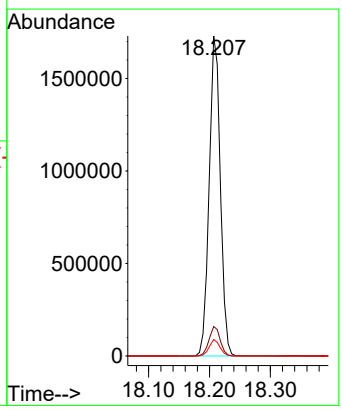


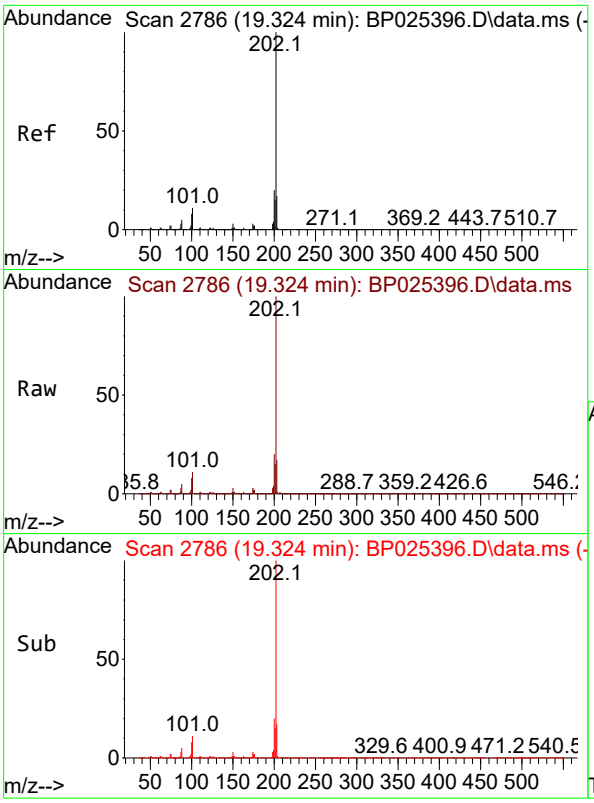


#74
Di-n-butylphthalate
Concen: 38.277 ng
RT: 18.207 min Scan# 2596
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:149 Resp: 2201043

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.4	11.0
104	5.2	4.2	6.2

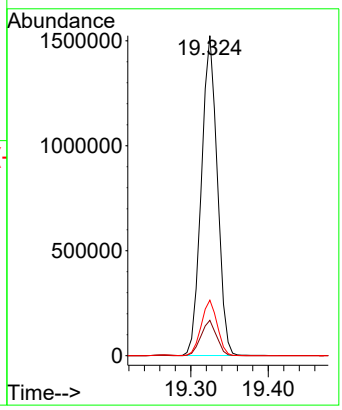




#75
Fluoranthene
Concen: 37.488 ng
RT: 19.324 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:202 Resp: 217275

Ion	Ratio	Lower	Upper
202	100		
101	11.1	0.0	31.1
203	17.3	0.0	37.3



Instrument :
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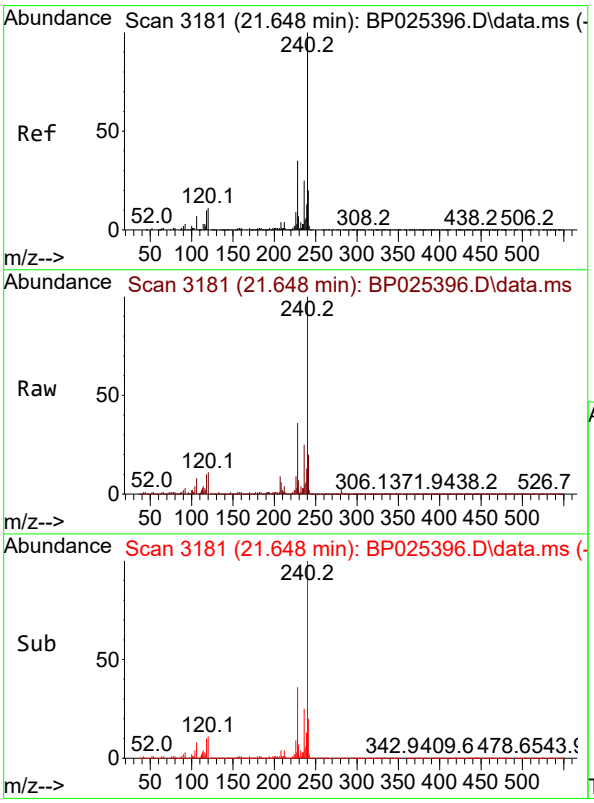
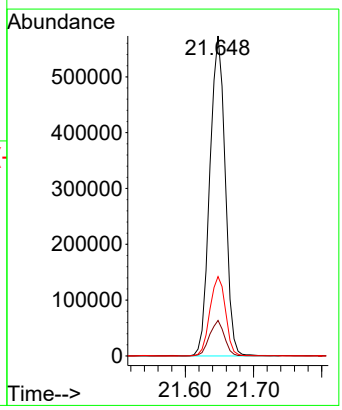
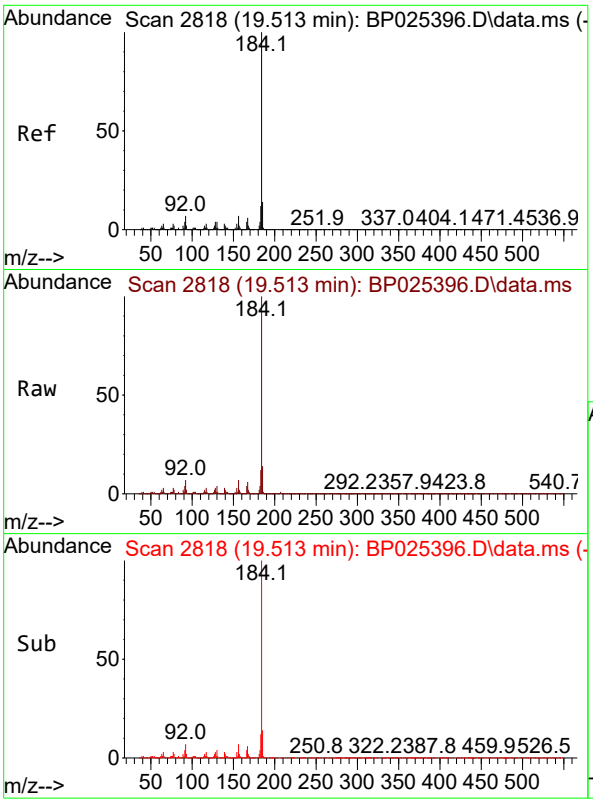


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.648 min Scan# 3181
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:240 Resp: 899207

Ion	Ratio	Lower	Upper
240	100		
120	11.1	8.9	13.3
236	24.8	19.8	29.8

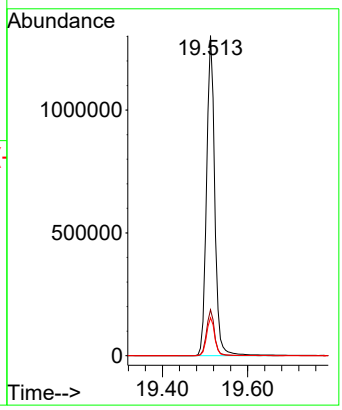




#77
Benzidine
Concen: 56.665 ng
RT: 19.513 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:184 Resp: 173892

Ion	Ratio	Lower	Upper
184	100		
185	14.4	11.5	17.3
183	11.8	9.4	14.2



Instrument :
BNA_P
ClientSampleId :
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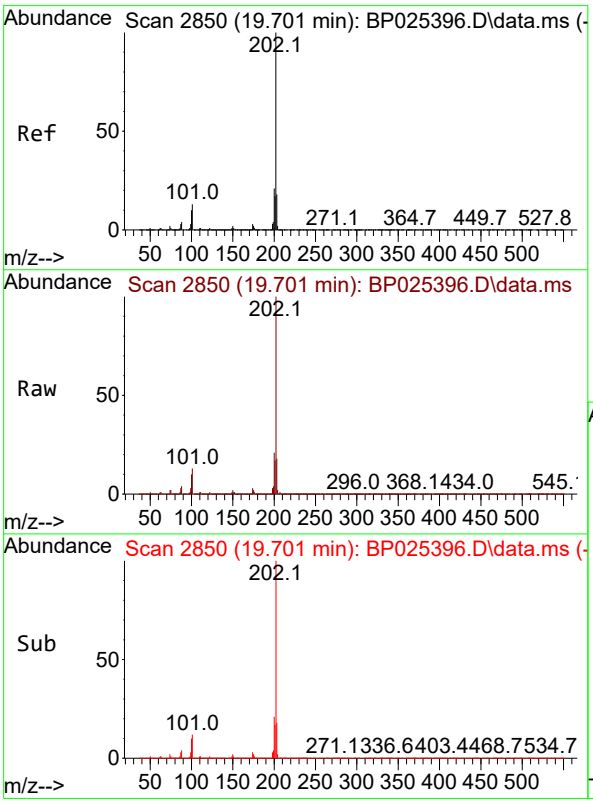
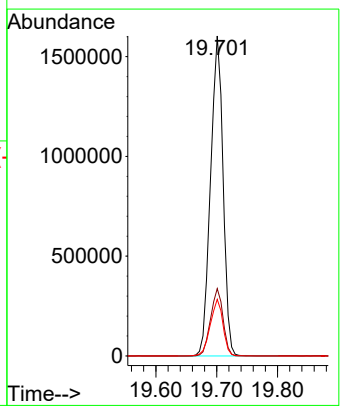
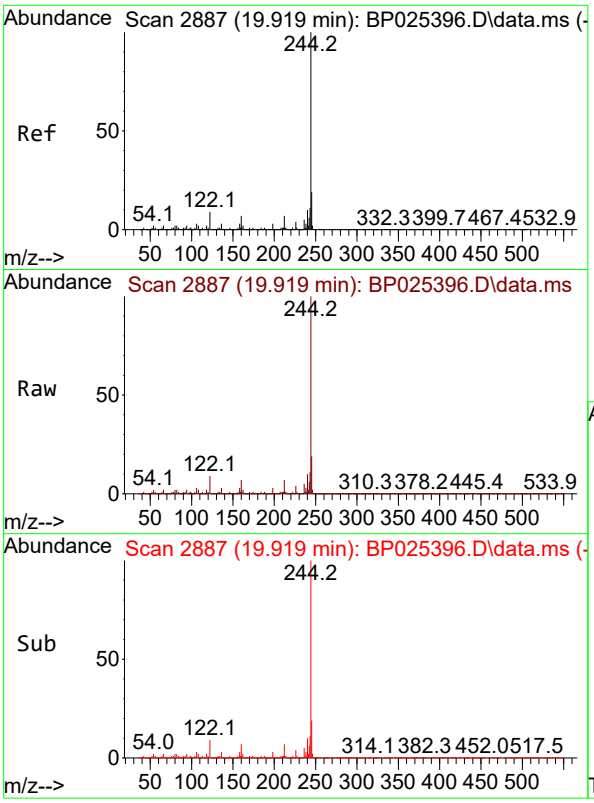


#78
Pyrene
Concen: 39.189 ng
RT: 19.701 min Scan# 2850
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:202 Resp: 2290461

Ion	Ratio	Lower	Upper
202	100		
200	21.1	16.9	25.3
203	17.7	14.2	21.2

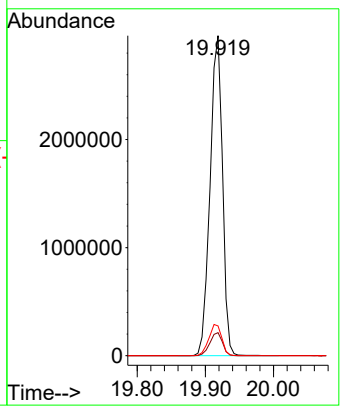




#79
Terphenyl-d14
Concen: 76.508 ng
RT: 19.919 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:244 Resp: 376023

Ion	Ratio	Lower	Upper
244	100		
212	7.2	5.8	8.6
122	9.3	7.4	11.2



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

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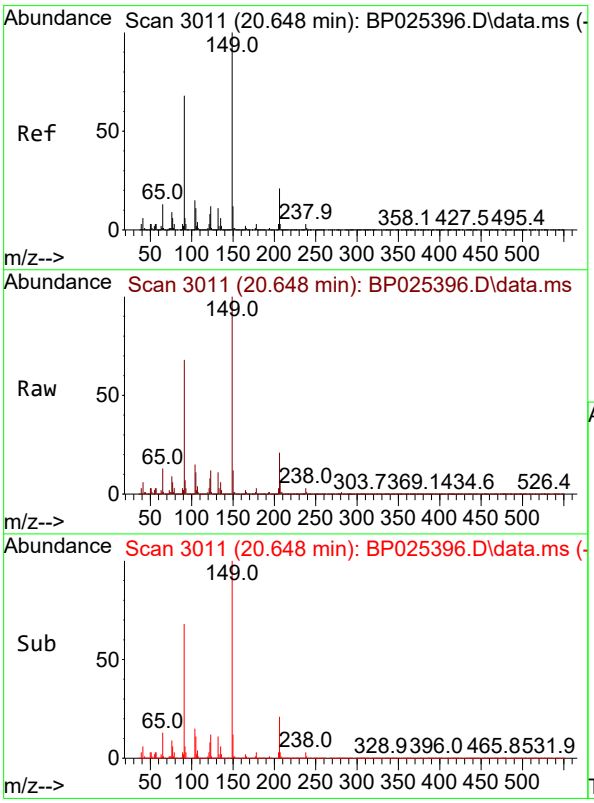
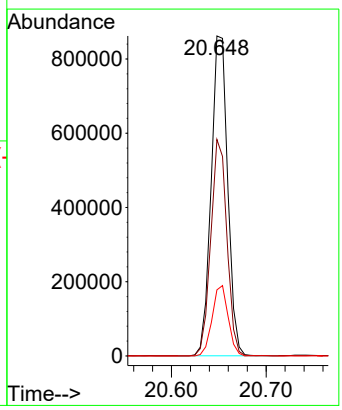
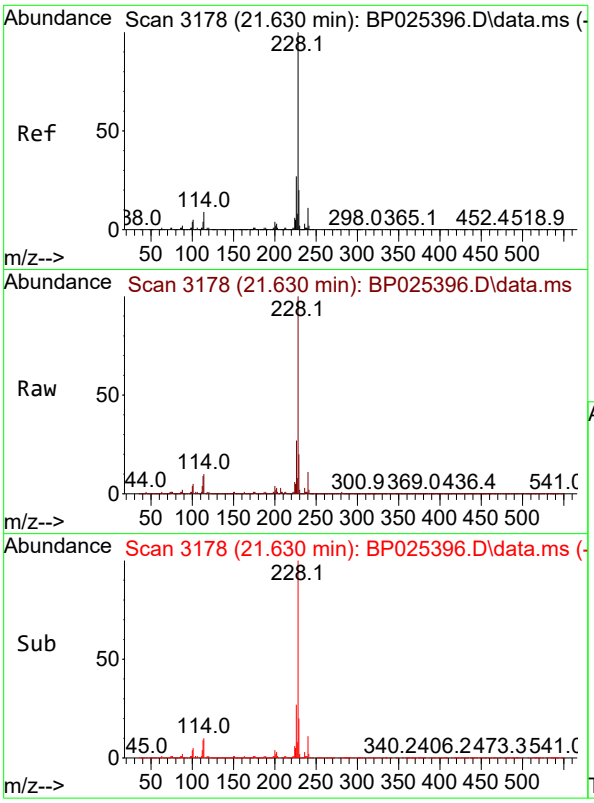


#80
Butylbenzylphthalate
Concen: 39.338 ng
RT: 20.648 min Scan# 3011
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:149 Resp: 1041998

Ion	Ratio	Lower	Upper
149	100		
91	67.7	54.2	81.2
206	20.7	16.6	24.8





#81
Benzo(a)anthracene
Concen: 38.460 ng
RT: 21.630 min Scan# 3
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:228 Resp: 228077

Ion	Ratio	Lower	Upper
228	100		
226	27.1	21.7	32.5
229	19.5	15.6	23.4

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

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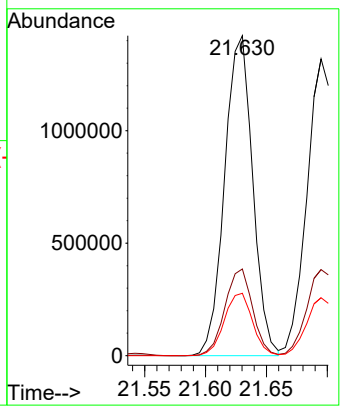
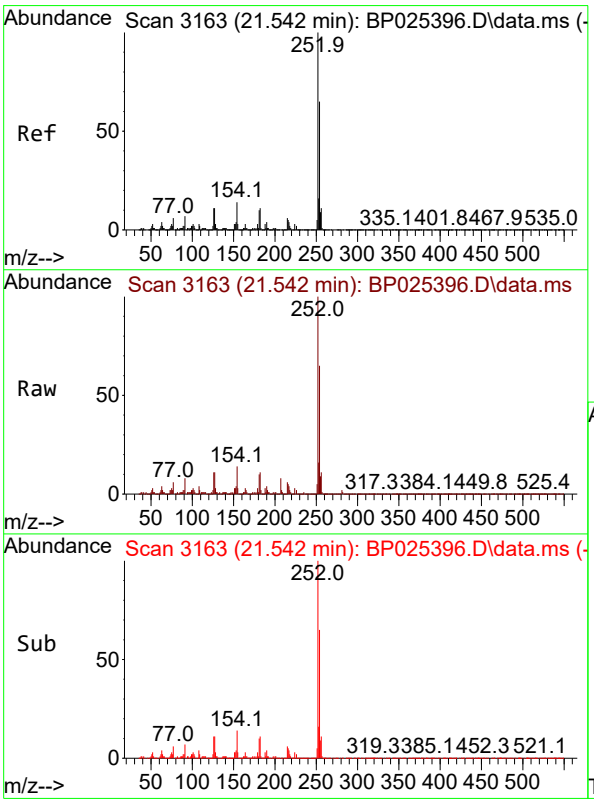
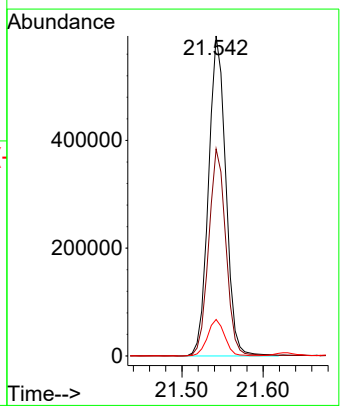


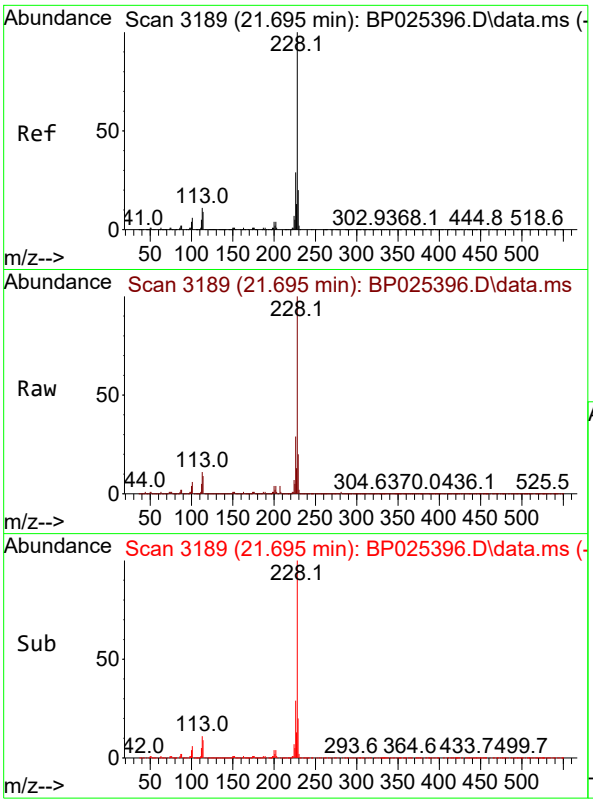


#82
3,3'-Dichlorobenzidine
Concen: 39.266 ng
RT: 21.542 min Scan# 3163
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:252 Resp: 877708

Ion	Ratio	Lower	Upper
252	100		
254	64.7	51.8	77.6
126	11.4	9.1	13.7

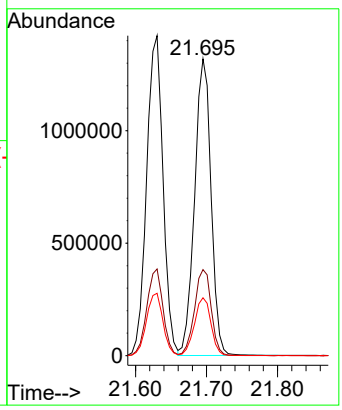




#83
Chrysene
Concen: 38.278 ng
RT: 21.695 min Scan# 3
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:228 Resp: 212586

Ion	Ratio	Lower	Upper
228	100		
226	29.0	23.2	34.8
229	19.5	15.6	23.4



Instrument :
BNA_P
ClientSampleId :
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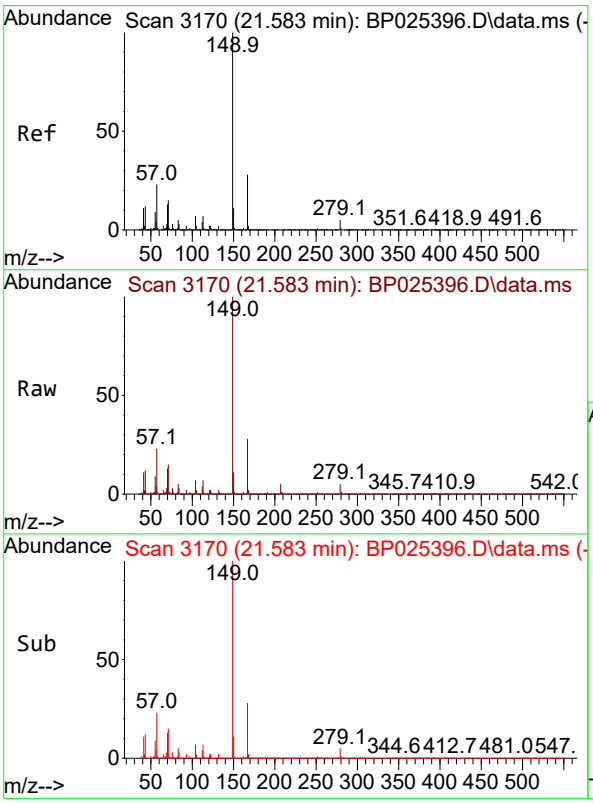
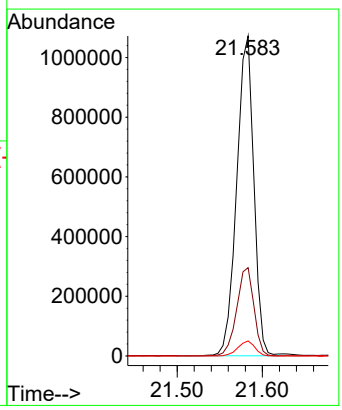
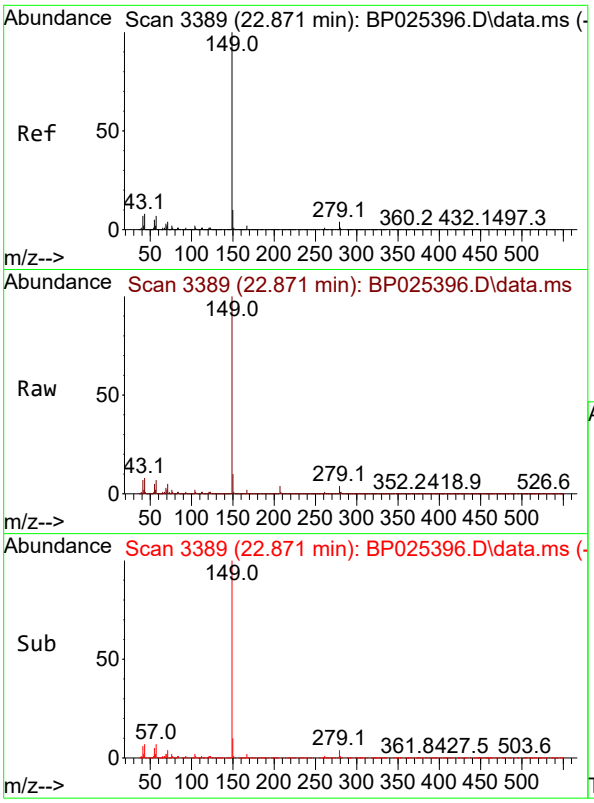


#84
Bis(2-ethylhexyl)phthalate
Concen: 38.310 ng
RT: 21.583 min Scan# 3170
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:149 Resp: 1493804

Ion	Ratio	Lower	Upper
149	100		
167	27.6	22.1	33.1
279	4.7	3.8	5.6

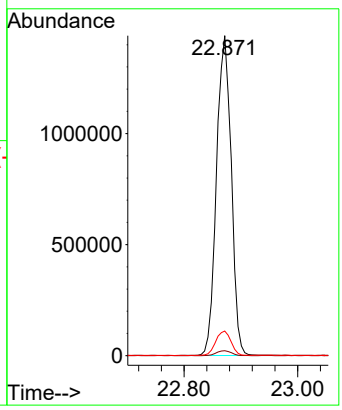




#85
Di-n-octyl phthalate
Concen: 38.730 ng
RT: 22.871 min Scan# 3
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:149 Resp: 259755

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	7.9	6.3	9.5



Instrument :
BNA_P
ClientSampleId :
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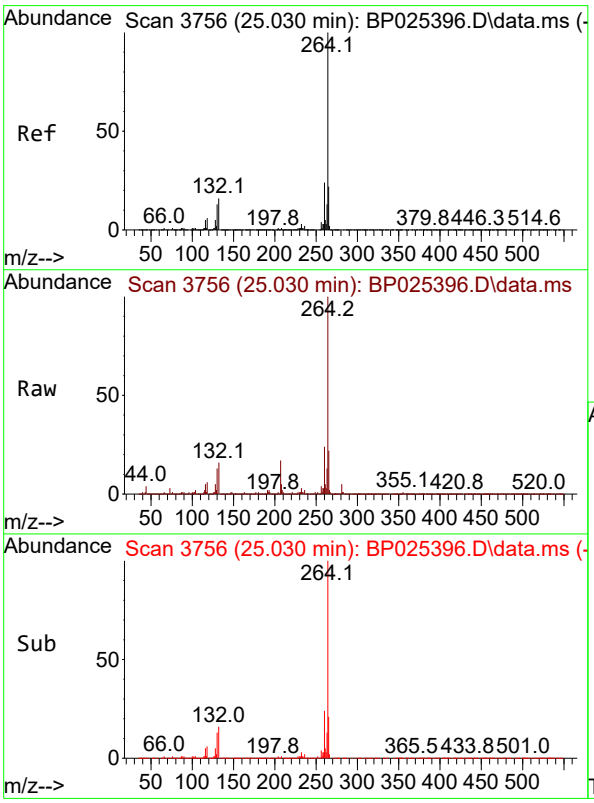
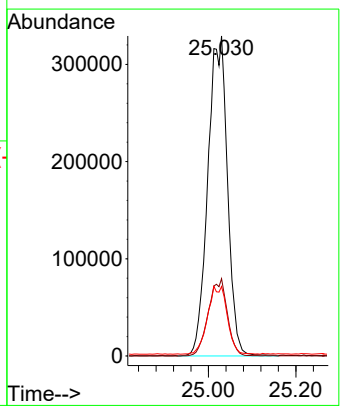
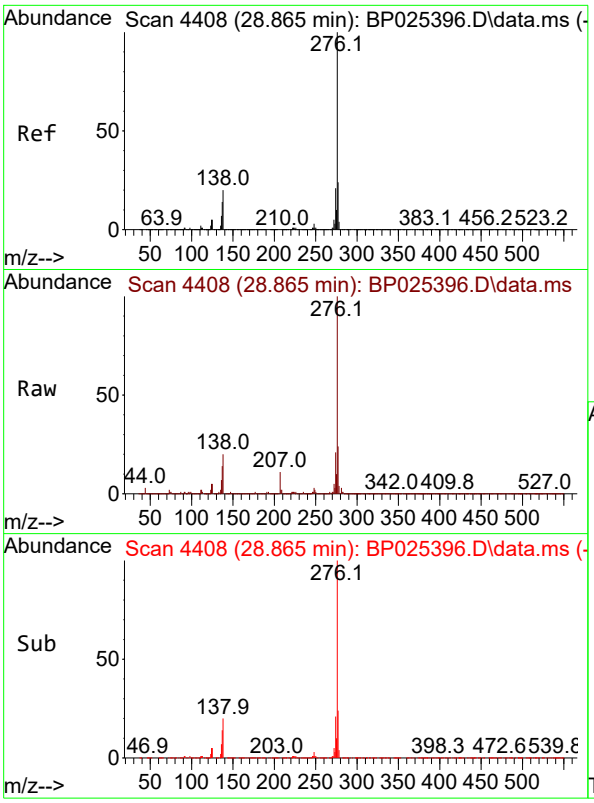


#86
Perylene-d12
Concen: 20.000 ng
RT: 25.030 min Scan# 3756
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:264 Resp: 1022138

Ion	Ratio	Lower	Upper
264	100		
260	24.1	19.3	28.9
265	21.7	17.4	26.0

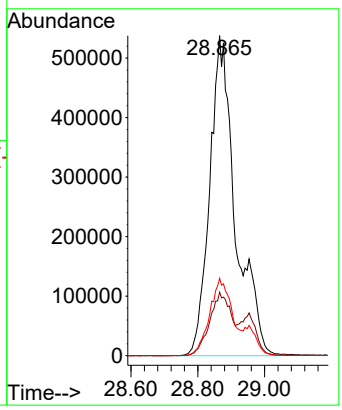




#87
Indeno(1,2,3-cd)pyrene
Concen: 38.470 ng m
RT: 28.865 min Scan# 4
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:276 Resp: 288471

Ion	Ratio	Lower	Upper
276	100		
138	16.1	12.9	19.3
277	21.3	17.0	25.6



Instrument :
BNA_P
ClientSampleId :
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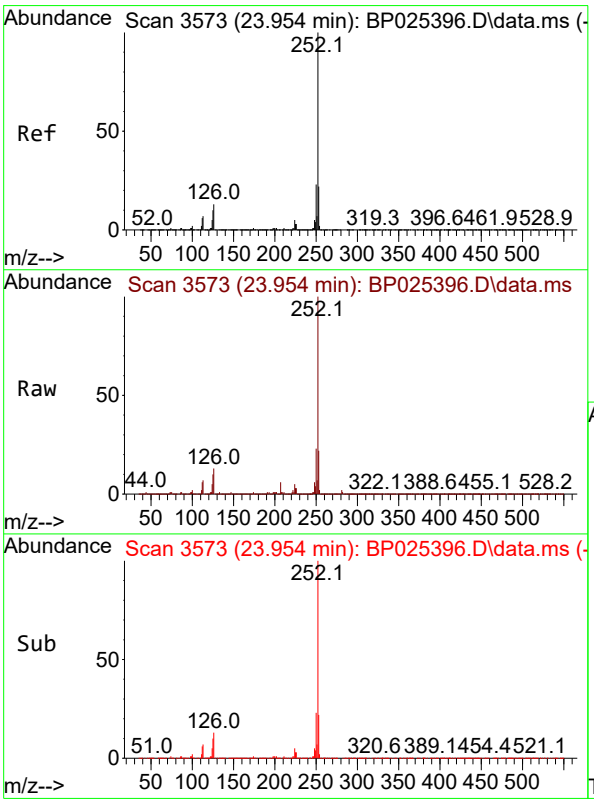
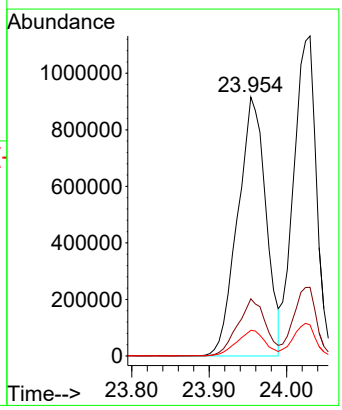
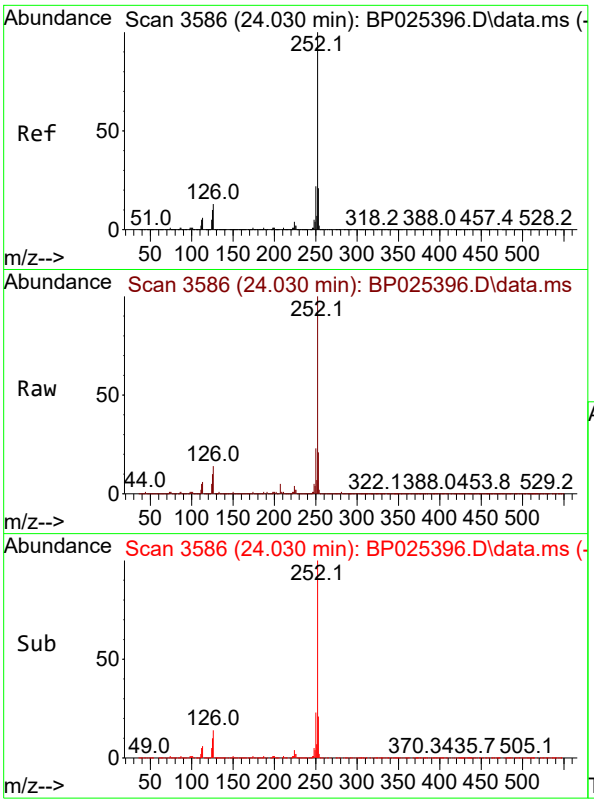


#88
Benzo(b)fluoranthene
Concen: 38.462 ng
RT: 23.954 min Scan# 3573
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:252 Resp: 2318198

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.7	26.5
125	9.9	7.9	11.9

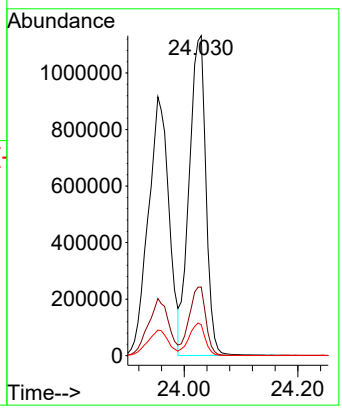




#89
Benzo(k)fluoranthene
Concen: 38.285 ng
RT: 24.030 min Scan# 3
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:252 Resp: 230909

Ion	Ratio	Lower	Upper
252	100		
253	21.4	17.1	25.7
125	9.7	7.8	11.6



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

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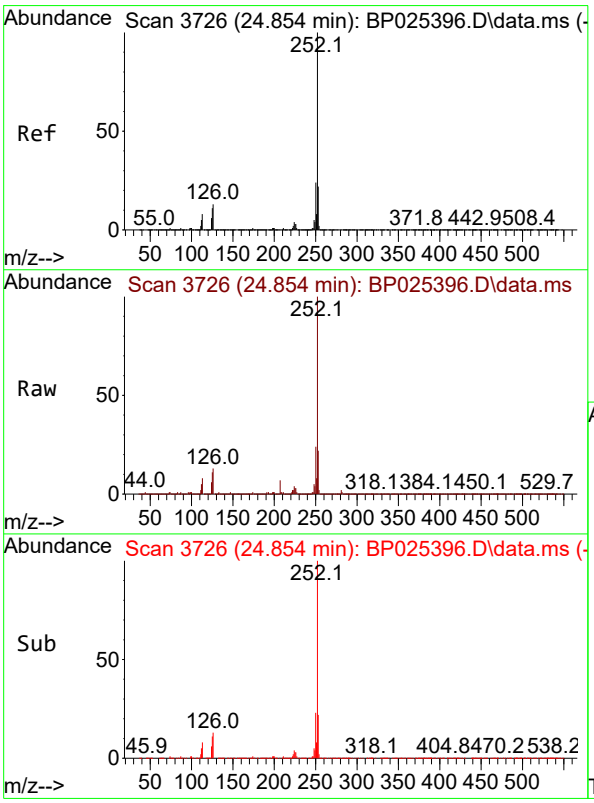
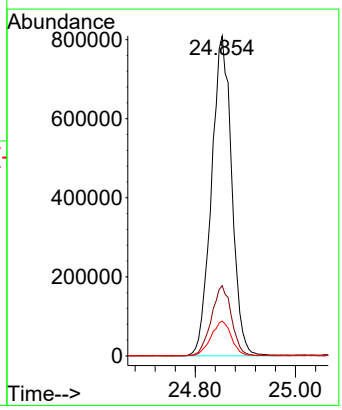
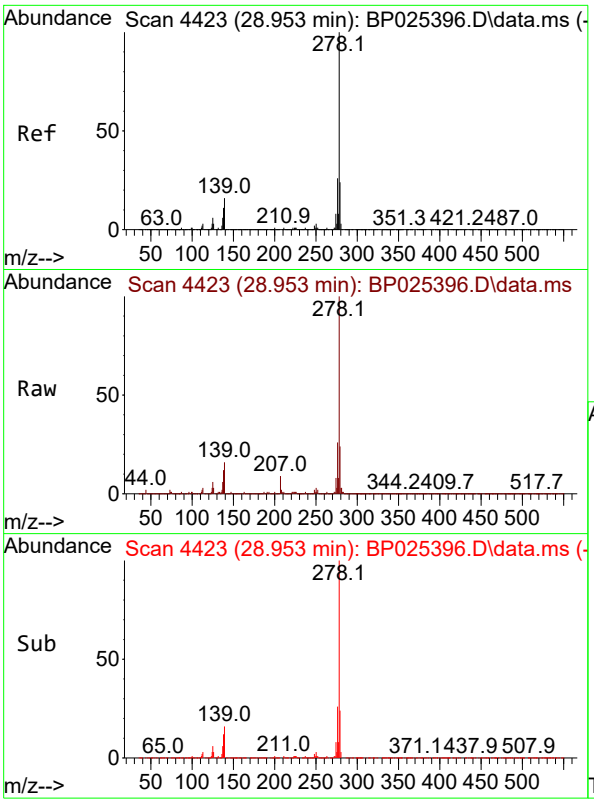


#90
Benzo(a)pyrene
Concen: 38.620 ng
RT: 24.854 min Scan# 3726
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:252 Resp: 2265862

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.5	26.3
125	10.9	8.7	13.1

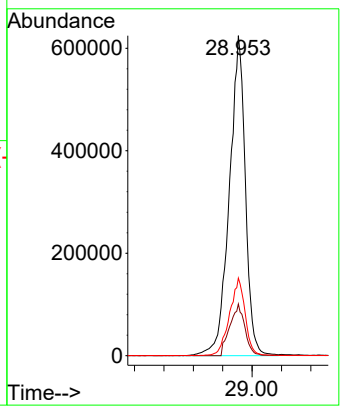




#91
Dibenzo(a,h)anthracene
Concen: 38.589 ng
RT: 28.953 min Scan# 4
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:278 Resp: 236384

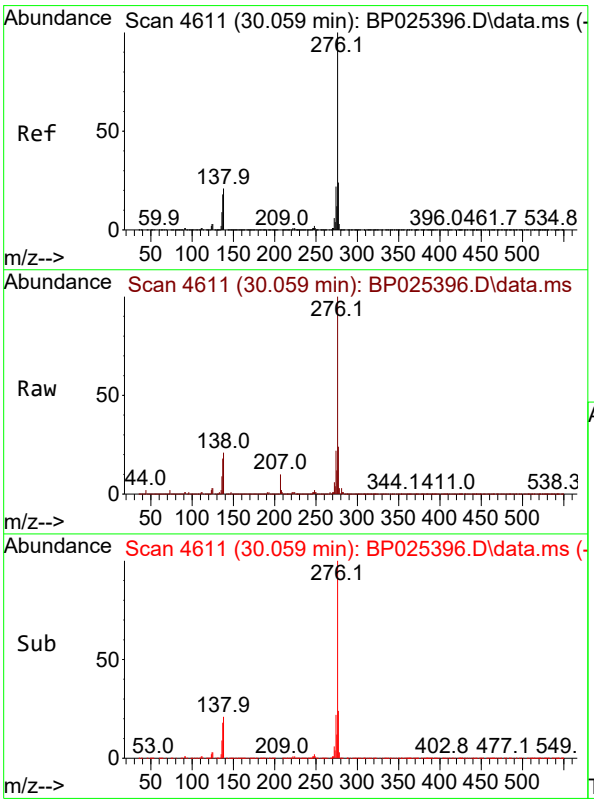
Ion	Ratio	Lower	Upper
278	100		
139	16.2	13.0	19.4
279	24.3	19.4	29.2



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

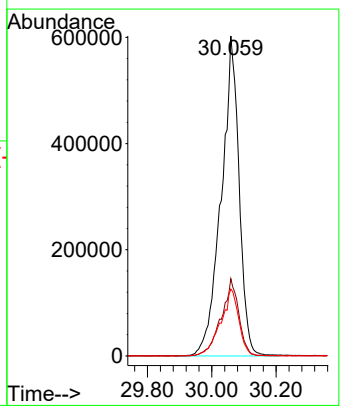
Reviewed By :Rahul Chavli 08/15/2025
Supervised By :Jagrut Upadhyay 08/15/2025



#92
Benzo(g,h,i)perylene
Concen: 38.654 ng
RT: 30.059 min Scan# 4611
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:276 Resp: 2327292

Ion	Ratio	Lower	Upper
276	100		
277	24.2	19.4	29.0
138	20.9	16.7	25.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081425\
Data File : BP025397.D
Acq On : 14 Aug 2025 16:01
Operator : CG/JU
Sample : SSTDICC050
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 08/15/2025
Supervised By :Jagrut Upadhyay 08/15/2025

Quant Time: Aug 14 17:57:10 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 17:44:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.790	152	137945	20.000	ng	0.00
21) Naphthalene-d8	10.560	136	573916	20.000	ng	0.00
39) Acenaphthene-d10	14.407	164	376731	20.000	ng	0.00
64) Phenanthrene-d10	17.201	188	753705	20.000	ng	0.00
76) Chrysene-d12	21.648	240	801742	20.000	ng	0.00
86) Perylene-d12	25.036	264	918939	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.408	112	855256	102.963	ng	0.00
7) Phenol-d6	6.966	99	1131869	106.283	ng	0.00
23) Nitrobenzene-d5	8.937	82	1201601	105.910	ng	0.00
42) 2,4,6-Tribromophenol	15.913	330	539295	106.352	ng	0.00
45) 2-Fluorobiphenyl	13.019	172	2856639	103.632	ng	0.00
79) Terphenyl-d14	19.925	244	4409094	100.615	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.331	88	165184	50.769	ng	98
3) Pyridine	3.725	79	454022	50.983	ng	97
4) n-Nitrosodimethylamine	3.631	42	192837	52.524	ng	99
6) Aniline	7.125	93	756782	52.743	ng	100
8) 2-Chlorophenol	7.366	128	492570	52.550	ng	99
9) Benzaldehyde	6.943	77	435174	58.325	ng	97
10) Phenol	6.996	94	588764	52.687	ng	99
11) bis(2-Chloroethyl)ether	7.219	93	455697	52.320	ng	99
12) 1,3-Dichlorobenzene	7.684	146	536261	51.884	ng	99
13) 1,4-Dichlorobenzene	7.825	146	550541	52.113	ng	99
14) 1,2-Dichlorobenzene	8.143	146	528750	51.705	ng	99
15) Benzyl Alcohol	8.025	79	443889	52.458	ng	98
16) 2,2'-oxybis(1-Chloropr...	8.319	45	603716	51.742	ng	99
17) 2-Methylphenol	8.225	107	412974	53.211	ng	98
18) Hexachloroethane	8.866	117	202672	52.178	ng	96
19) n-Nitroso-di-n-propyla...	8.590	70	363151	51.419	ng	98
20) 3+4-Methylphenols	8.549	107	565208	52.538	ng	99
22) Acetophenone	8.602	105	750308	52.131	ng	100
24) Nitrobenzene	8.978	77	537647	53.024	ng	98
25) Isophorone	9.502	82	1047736	52.182	ng	99
26) 2-Nitrophenol	9.678	139	282682	54.323	ng	98
27) 2,4-Dimethylphenol	9.737	122	481502	53.806	ng	97
28) bis(2-Chloroethoxy)met...	9.972	93	630027	51.909	ng	99
29) 2,4-Dichlorophenol	10.213	162	475406	53.478	ng	99
30) 1,2,4-Trichlorobenzene	10.431	180	507724	52.101	ng	99
31) Naphthalene	10.607	128	1560240	52.305	ng	100
32) Benzoic acid	9.884	122	357706	54.274	ng	96
33) 4-Chloroaniline	10.713	127	705562	53.548	ng	99
34) Hexachlorobutadiene	10.902	225	312163	51.436	ng	98
35) Caprolactam	11.502	113	172663	52.969	ng	94
36) 4-Chloro-3-methylphenol	11.843	107	534583	52.407	ng	100
37) 2-Methylnaphthalene	12.219	142	1003813	51.710	ng	99
38) 1-Methylnaphthalene	12.443	142	1076949	52.167	ng	99
40) 1,2,4,5-Tetrachloroben...	12.590	216	574152	52.769	ng	99
41) Hexachlorocyclopentadiene	12.572	237	364047	55.392	ng	98
43) 2,4,6-Trichlorophenol	12.831	196	396440	53.971	ng	99

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081425\
Data File : BP025397.D
Acq On : 14 Aug 2025 16:01
Operator : CG/JU
Sample : SSTDICC050
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 08/15/2025
Supervised By :Jagrut Upadhyay 08/15/2025

Quant Time: Aug 14 17:57:10 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 17:44:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.896	196	430061	53.421	ng	99
46) 1,1'-Biphenyl	13.231	154	1447968	52.922	ng	99
47) 2-Chloronaphthalene	13.272	162	1114922	52.344	ng	99
48) 2-Nitroaniline	13.472	65	338939	54.613	ng	98
49) Acenaphthylene	14.125	152	1875998	53.227	ng	100
50) Dimethylphthalate	13.860	163	1424127	51.622	ng	100
51) 2,6-Dinitrotoluene	13.966	165	312149	53.683	ng	97
52) Acenaphthene	14.472	154	1087721	52.577	ng	98
53) 3-Nitroaniline	14.301	138	362030	55.339	ng	99
54) 2,4-Dinitrophenol	14.507	184	175453	56.503	ng	98
55) Dibenzofuran	14.813	168	1705630	52.147	ng	99
56) 4-Nitrophenol	14.619	139	296227	55.103	ng	98
57) 2,4-Dinitrotoluene	14.766	165	450923	54.354	ng	97
58) Fluorene	15.466	166	1332448	51.627	ng	99
59) 2,3,4,6-Tetrachlorophenol	15.043	232	378743	53.281	ng	99
60) Diethylphthalate	15.243	149	1450033	51.728	ng	99
61) 4-Chlorophenyl-phenyle...	15.466	204	650101	50.647	ng	99
62) 4-Nitroaniline	15.478	138	364030	54.278	ng	99
63) Azobenzene	15.760	77	1262576	52.602	ng	99
65) 4,6-Dinitro-2-methylph...	15.542	198	262126	55.792	ng	98
66) n-Nitrosodiphenylamine	15.678	169	1195077	51.997	ng	100
67) 4-Bromophenyl-phenylether	16.372	248	433740	52.325	ng	99
68) Hexachlorobenzene	16.495	284	497906	51.816	ng	97
69) Atrazine	16.654	200	451704	52.479	ng	98
70) Pentachlorophenol	16.842	266	332839	54.872	ng	97
71) Phenanthrene	17.248	178	2139431	51.673	ng	100
72) Anthracene	17.337	178	2214911	52.385	ng	100
73) Carbazole	17.613	167	2093175	52.559	ng	99
74) Di-n-butylphthalate	18.213	149	2589522	52.849	ng	99
75) Fluoranthene	19.325	202	2563702	51.910	ng	99
77) Benzidine	19.513	184	1330198	48.615	ng	99
78) Pyrene	19.701	202	2644850	50.754	ng	100
80) Butylbenzylphthalate	20.660	149	1231376	52.139	ng	98
81) Benzo(a)anthracene	21.630	228	2723006	51.499	ng	100
82) 3,3'-Dichlorobenzidine	21.548	252	1043476	52.357	ng	99
83) Chrysene	21.701	228	2565856	51.817	ng	99
84) Bis(2-ethylhexyl)phtha...	21.577	149	1805478	51.933	ng	100
85) Di-n-octyl phthalate	22.877	149	3150824	52.690	ng	100
87) Indeno(1,2,3-cd)pyrene	28.859	276	3604179m	53.463	ng	
88) Benzo(b)fluoranthene	23.960	252	2870971	52.982	ng	100
89) Benzo(k)fluoranthene	24.042	252	2817276	51.956	ng	99
90) Benzo(a)pyrene	24.877	252	2800880	53.100	ng	99
91) Dibenzo(a,h)anthracene	28.965	278	2962622	53.795	ng	98
92) Benzo(g,h,i)perylene	30.053	276	2866689m	52.960	ng	

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

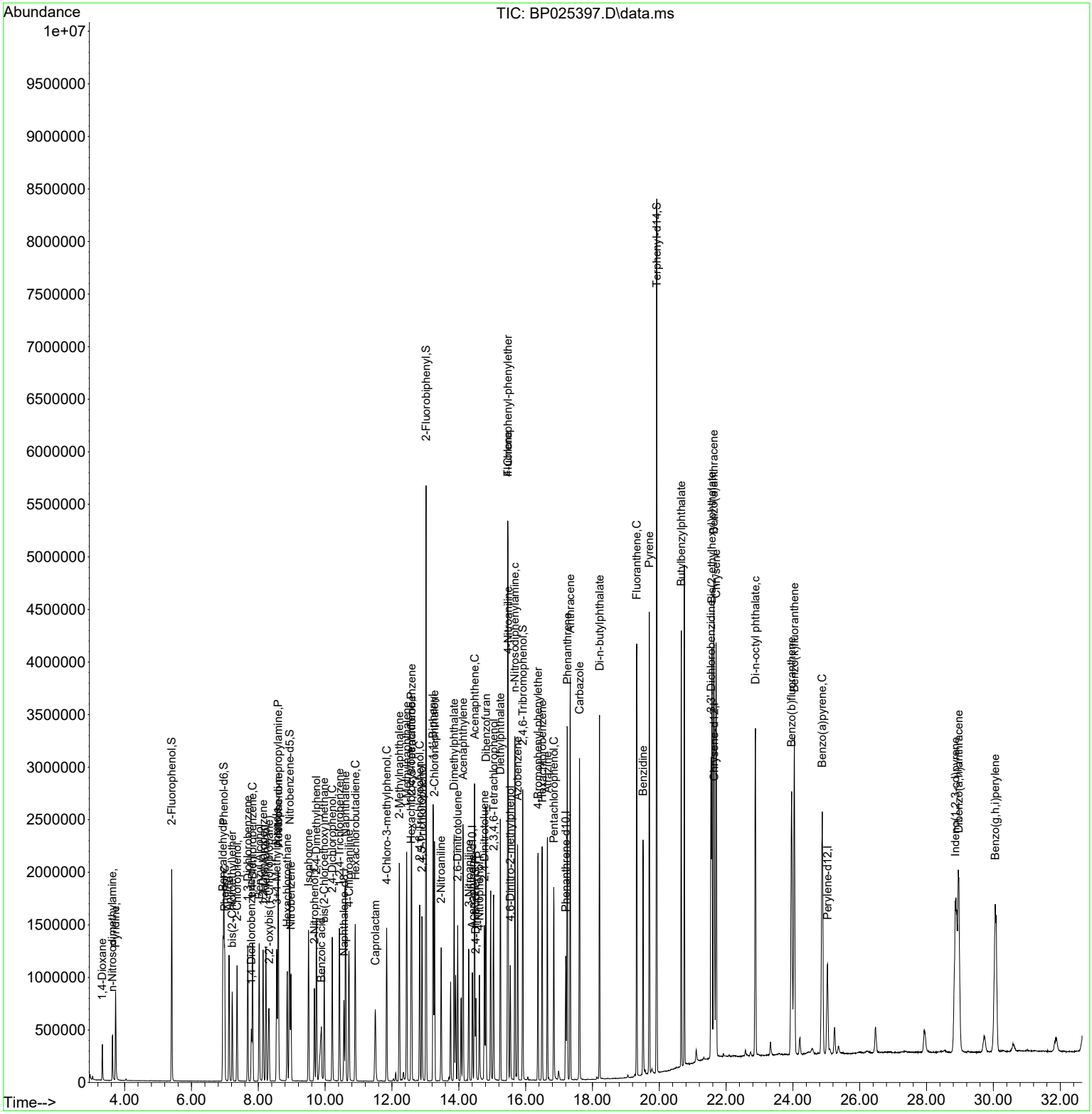
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081425\
Data File : BP025397.D
Acq On : 14 Aug 2025 16:01
Operator : CG/JU
Sample : SSTDICC050
Misc :
ALS Vial : 8 Sample Multiplier: 1

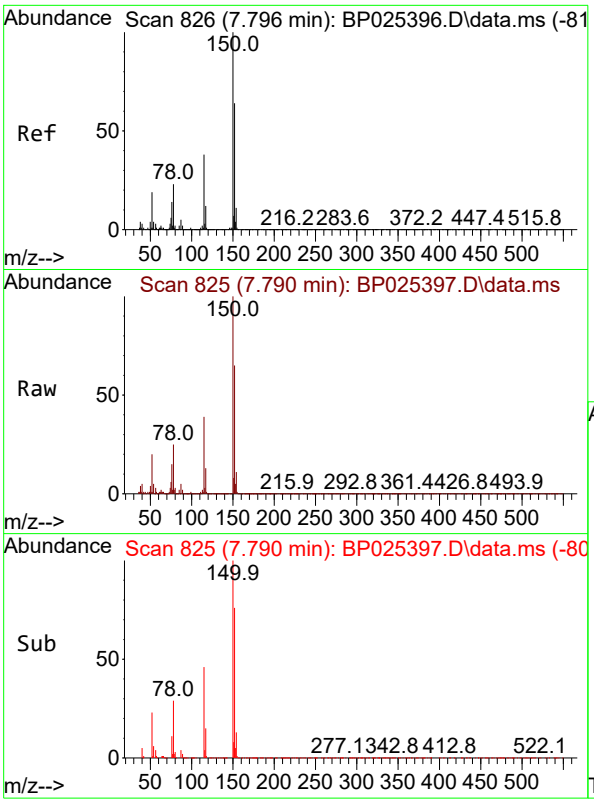
Quant Time: Aug 14 17:57:10 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 17:44:43 2025
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 08/15/2025
Supervised By :Jagrut Upadhyay 08/15/2025

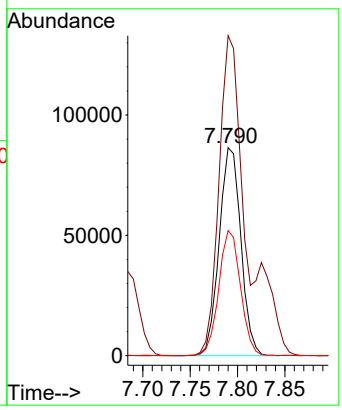




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.790 min Scan# 8
Delta R.T. -0.006 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:152 Resp: 13794

Ion	Ratio	Lower	Upper
152	100		
150	153.9	125.9	188.9
115	60.2	48.5	72.7



Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 08/15/2025
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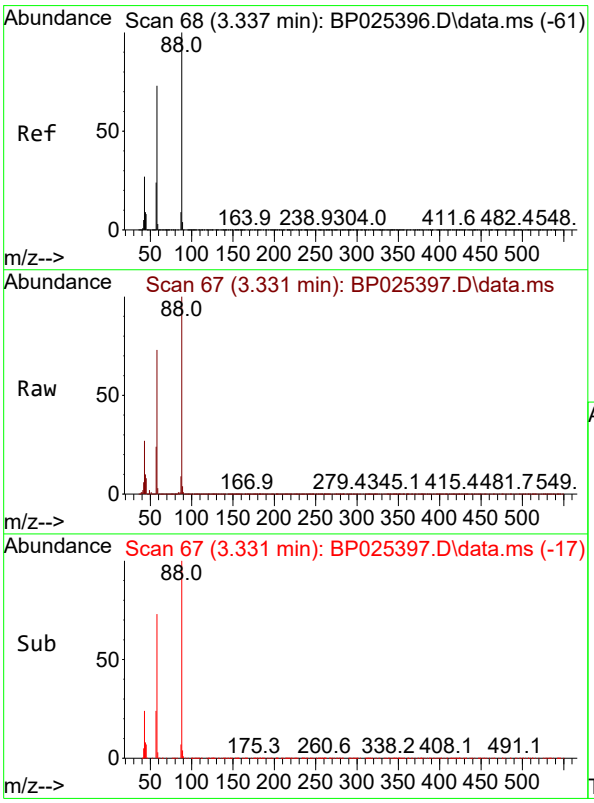
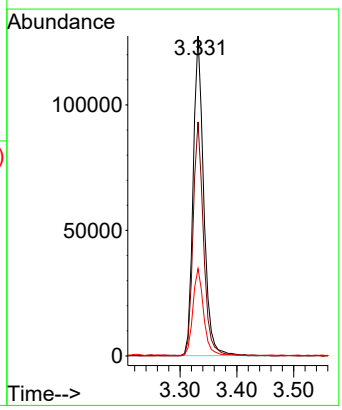
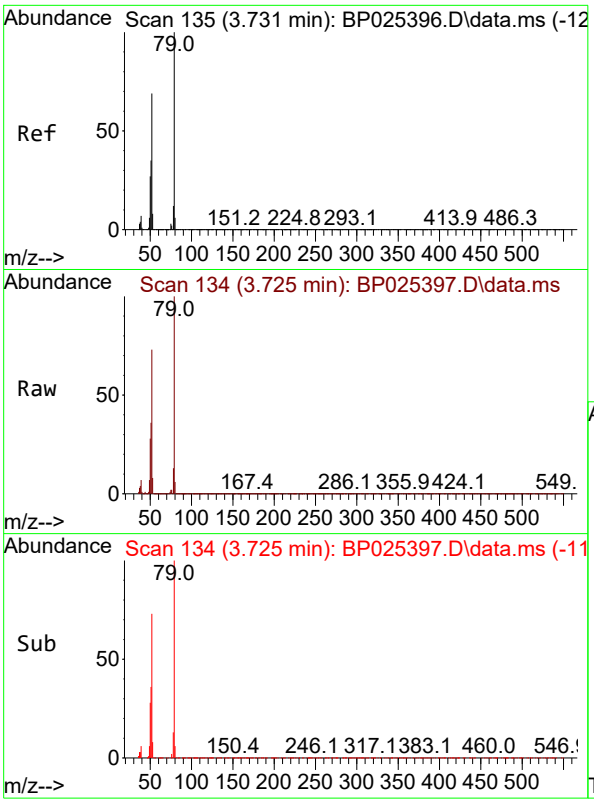


#2
1,4-Dioxane
Concen: 50.769 ng
RT: 3.331 min Scan# 67
Delta R.T. -0.006 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion: 88 Resp: 165184

Ion	Ratio	Lower	Upper
88	100		
58	72.6	59.2	88.8
43	27.8	21.7	32.5

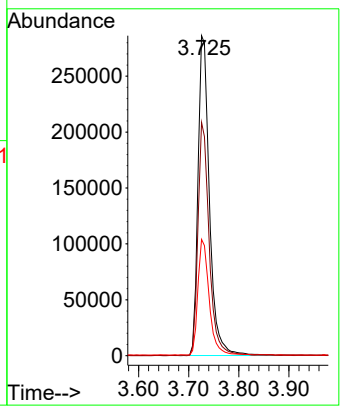




#3
Pyridine
Concen: 50.983 ng
RT: 3.725 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion: 79 Resp: 45402

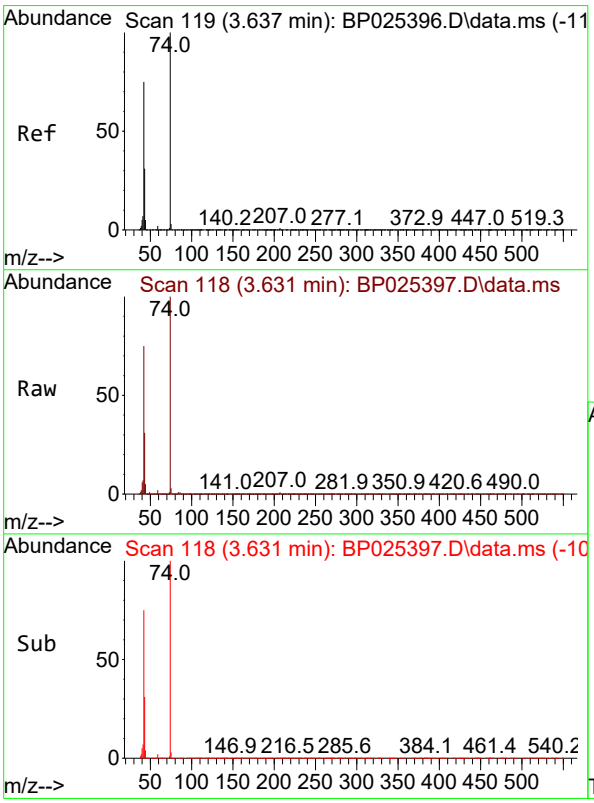
Ion	Ratio	Lower	Upper
79	100		
52	72.9	55.5	83.3
51	36.3	28.3	42.5



Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

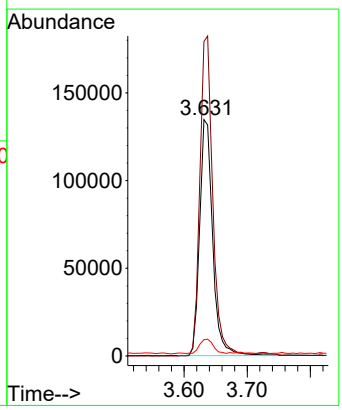
Reviewed By :Rahul Chavli 08/15/2025
Supervised By :Jagrut Upadhyay 08/15/2025

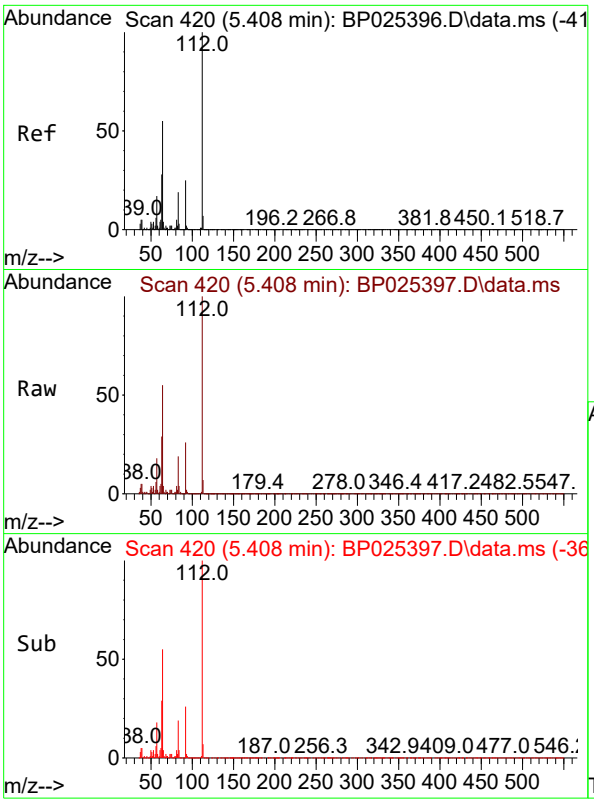


#4
n-Nitrosodimethylamine
Concen: 52.524 ng
RT: 3.631 min Scan# 118
Delta R.T. -0.006 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion: 42 Resp: 192837

Ion	Ratio	Lower	Upper
42	100		
74	133.0	107.0	160.4
44	6.9	6.2	9.4

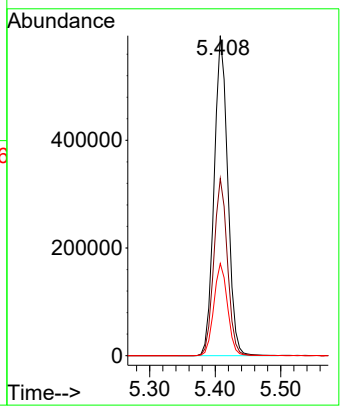




#5
2-Fluorophenol
Concen: 102.963 ng
RT: 5.408 min Scan# 4
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:112 Resp: 85525

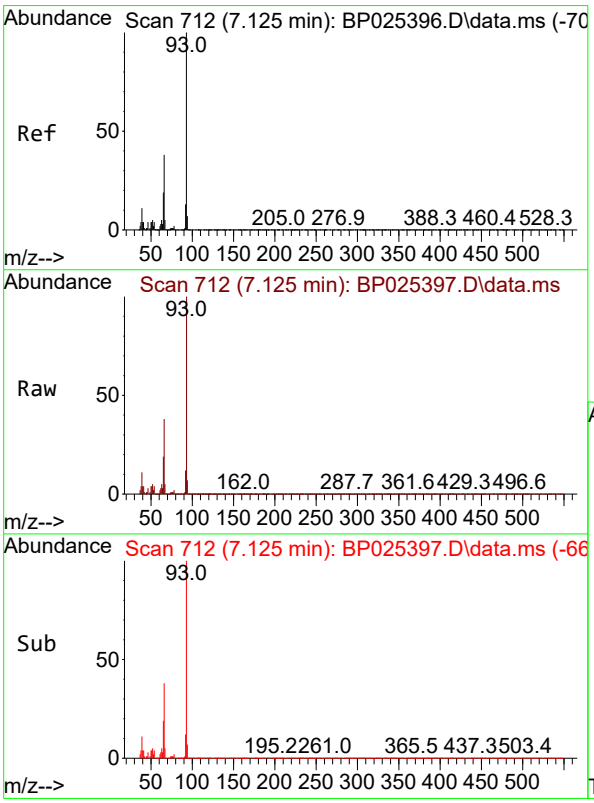
Ion	Ratio	Lower	Upper
112	100		
64	55.4	43.8	65.8
63	28.8	22.7	34.1



Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

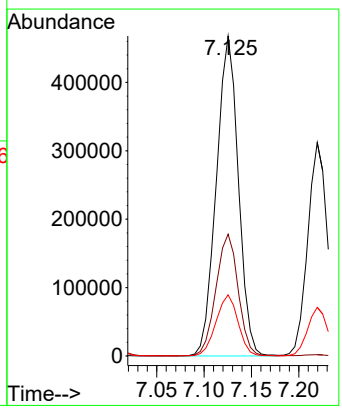
Reviewed By :Rahul Chavli 08/15/2025
Supervised By :Jagrut Upadhyay 08/15/2025

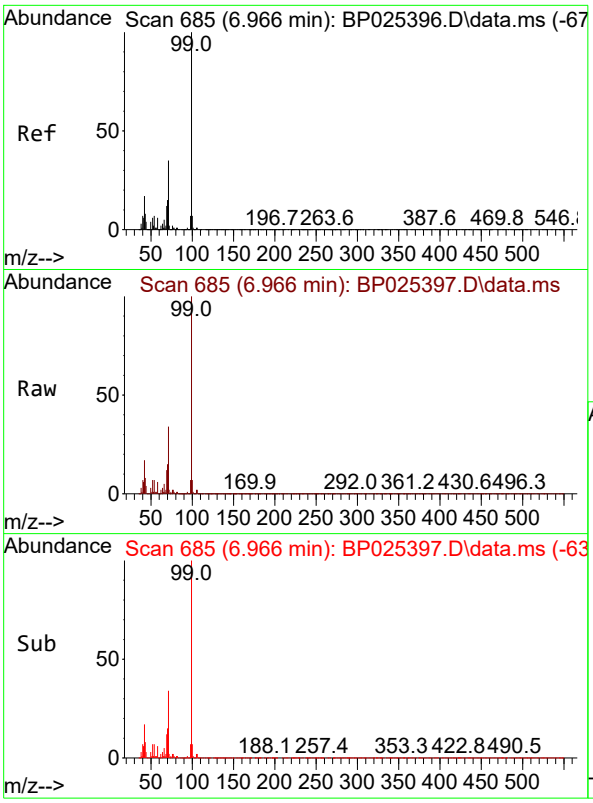


#6
Aniline
Concen: 52.743 ng
RT: 7.125 min Scan# 712
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion: 93 Resp: 756782

Ion	Ratio	Lower	Upper
93	100		
66	38.0	30.4	45.6
65	19.1	15.3	22.9

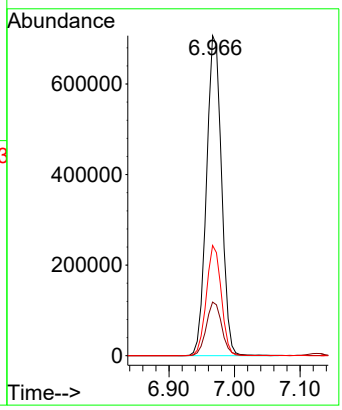




#7
Phenol-d6
Concen: 106.283 ng
RT: 6.966 min Scan# 6
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion: 99 Resp: 113186

Ion	Ratio	Lower	Upper
99	100		
42	16.7	13.7	20.5
71	34.4	28.2	42.4



Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 08/15/2025
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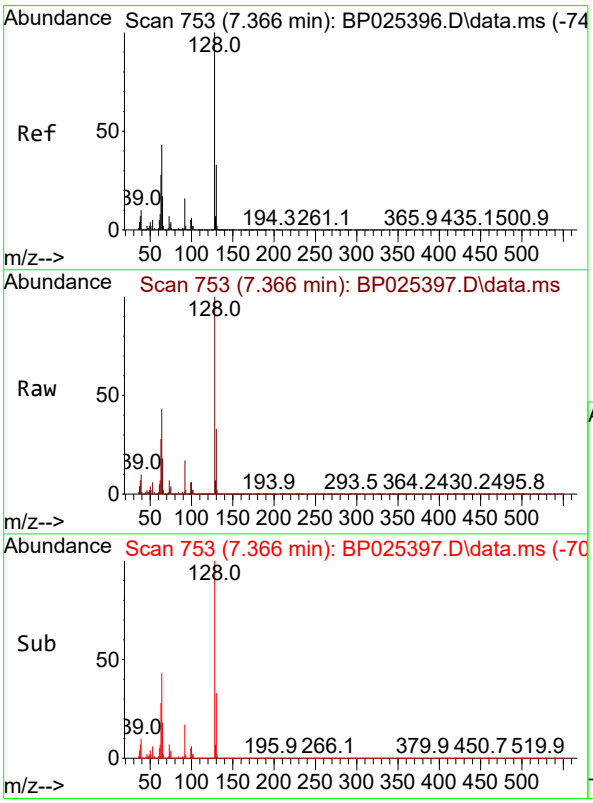
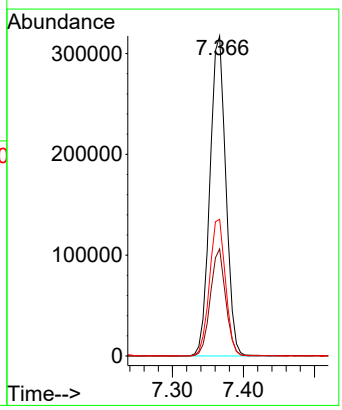
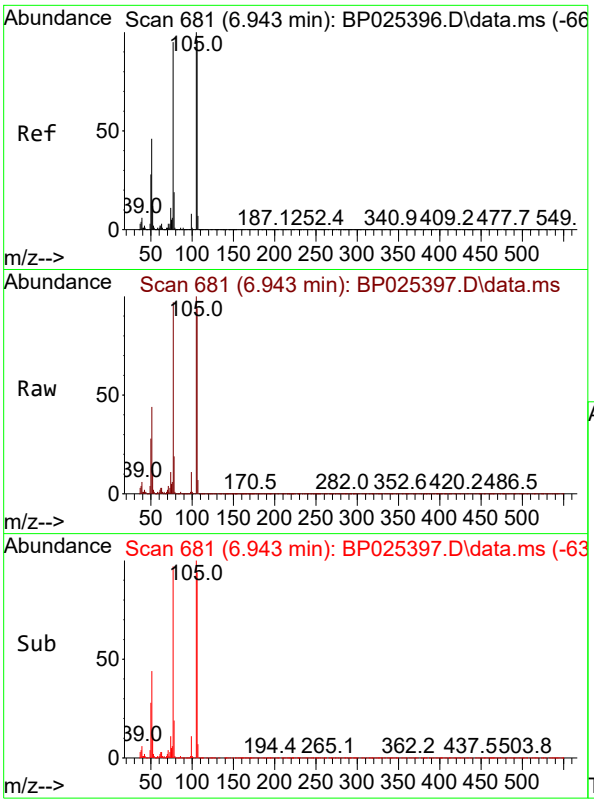


#8
2-Chlorophenol
Concen: 52.550 ng
RT: 7.366 min Scan# 753
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:128 Resp: 492570

Ion	Ratio	Lower	Upper
128	100		
130	33.4	12.6	52.6
64	42.7	23.4	63.4

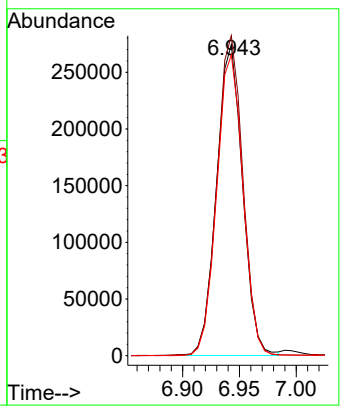




#9
Benzaldehyde
Concen: 58.325 ng
RT: 6.943 min Scan# 6
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion: 77 Resp: 43517

Ion	Ratio	Lower	Upper
77	100		
105	102.9	84.8	124.8
106	96.7	80.5	120.5



Instrument :
BNA_P
ClientSampleId :
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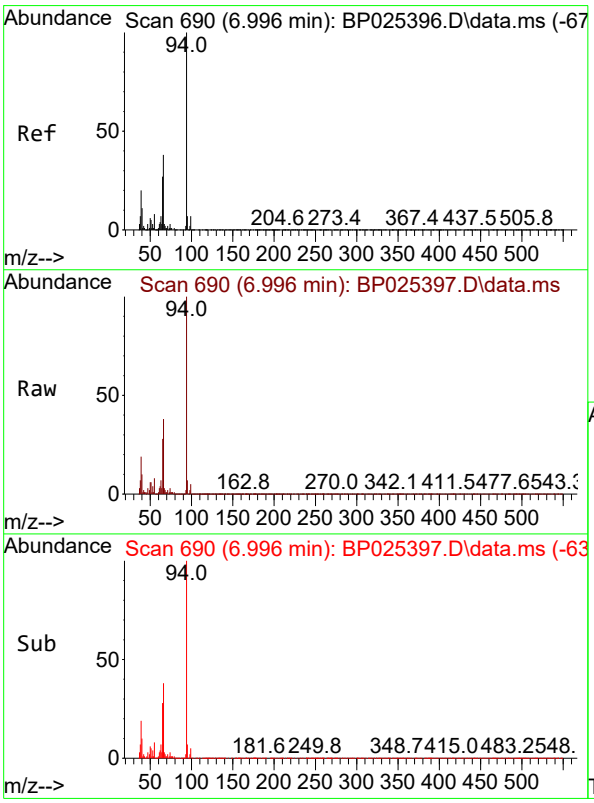
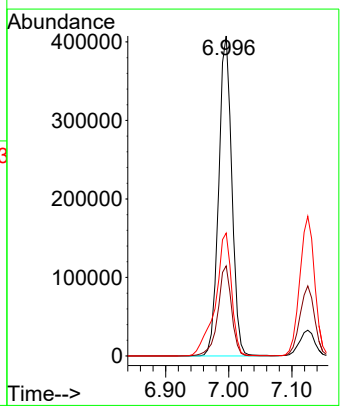
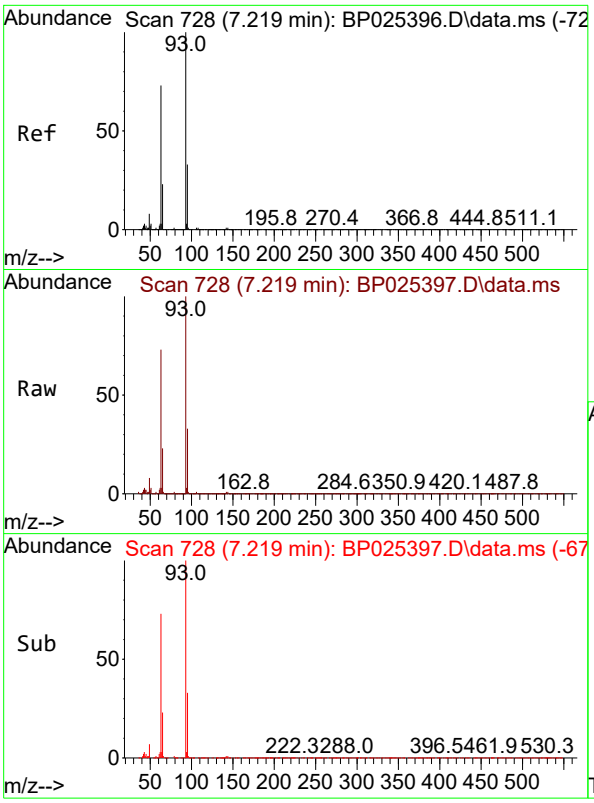


#10
Phenol
Concen: 52.687 ng
RT: 6.996 min Scan# 690
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion: 94 Resp: 588764

Ion	Ratio	Lower	Upper
94	100		
65	28.1	6.8	46.8
66	38.4	18.2	58.2

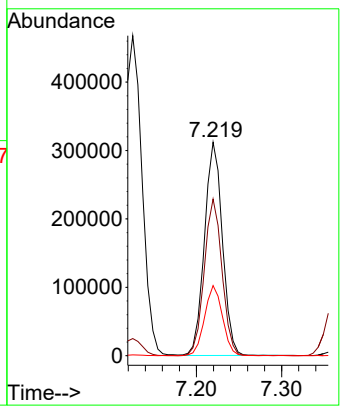




#11
bis(2-Chloroethyl)ether
Concen: 52.320 ng
RT: 7.219 min Scan# 7
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion: 93 Resp: 45569

Ion	Ratio	Lower	Upper
93	100		
63	73.4	52.6	92.6
95	32.9	12.7	52.7



Instrument :
BNA_P
ClientSampleId :
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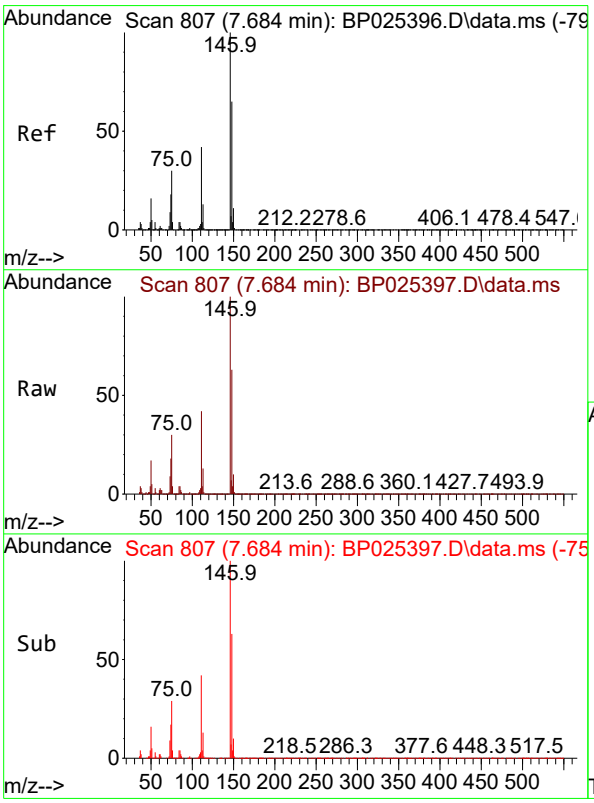
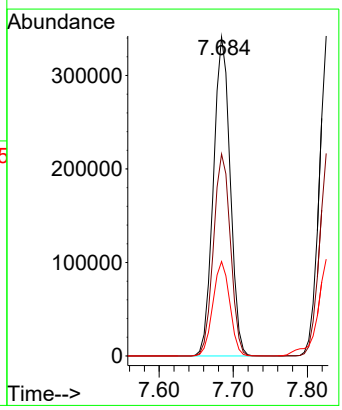
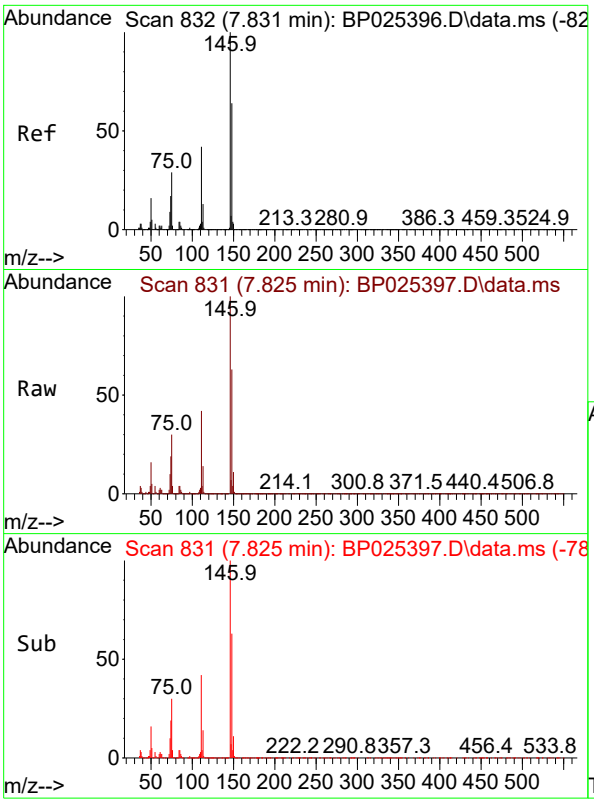


#12
1,3-Dichlorobenzene
Concen: 51.884 ng
RT: 7.684 min Scan# 807
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:146 Resp: 536261

Ion	Ratio	Lower	Upper
146	100		
148	63.3	51.9	77.9
75	29.6	23.7	35.5

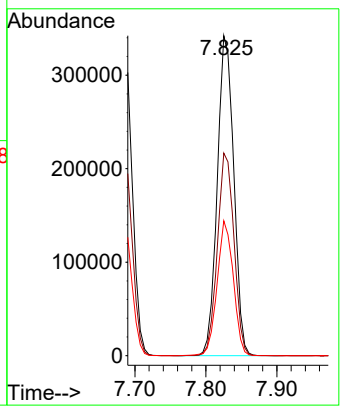




#13
1,4-Dichlorobenzene
Concen: 52.113 ng
RT: 7.825 min Scan# 8
Delta R.T. -0.006 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:146 Resp: 55054

Ion	Ratio	Lower	Upper
146	100		
148	63.3	51.6	77.4
111	42.2	33.4	50.0



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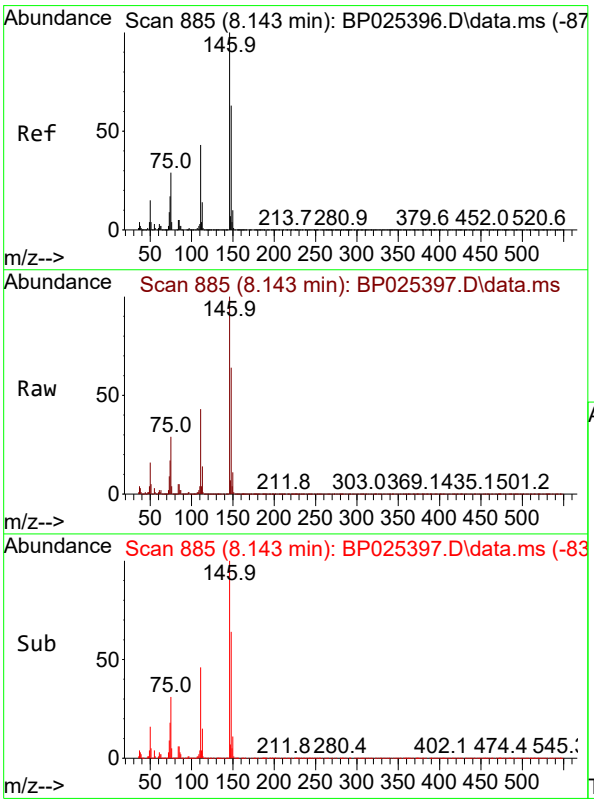
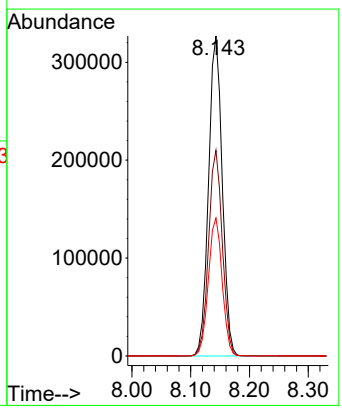
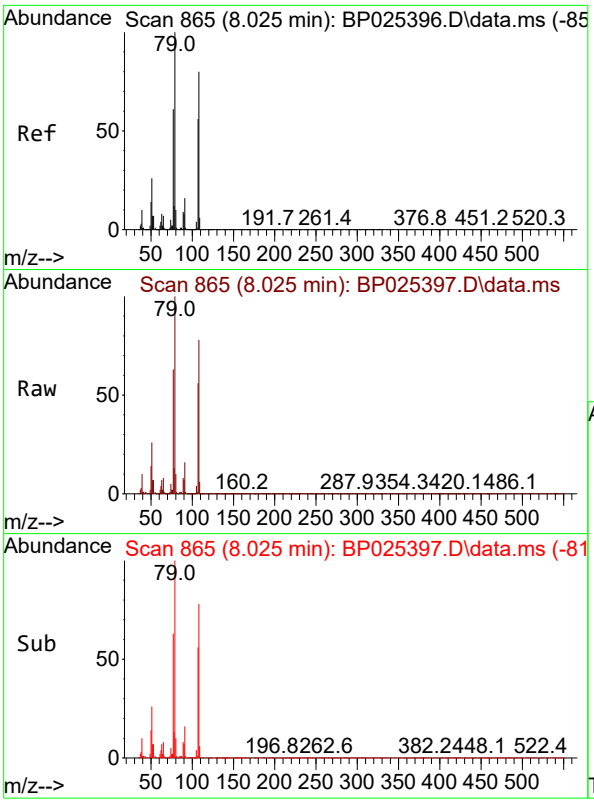


#14
1,2-Dichlorobenzene
Concen: 51.705 ng
RT: 8.143 min Scan# 885
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:146 Resp: 528750

Ion	Ratio	Lower	Upper
146	100		
148	64.3	50.4	75.6
111	43.1	34.5	51.7

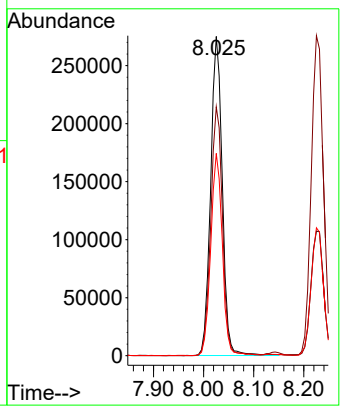




#15
Benzyl Alcohol
Concen: 52.458 ng
RT: 8.025 min Scan# 8
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion: 79 Resp: 44388

Ion	Ratio	Lower	Upper
79	100		
108	77.9	63.8	95.6
77	63.4	49.0	73.4



Instrument :
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ClientSampleId :
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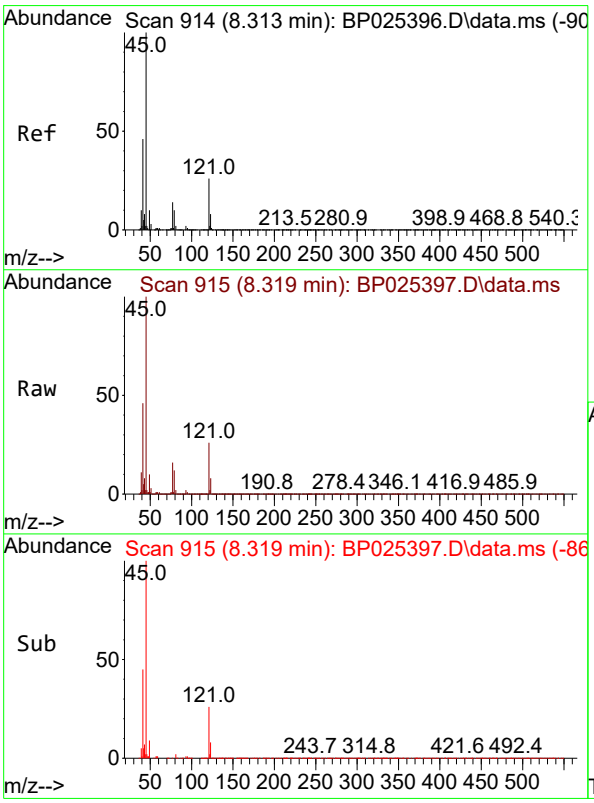
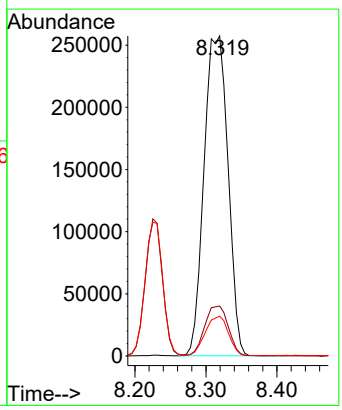
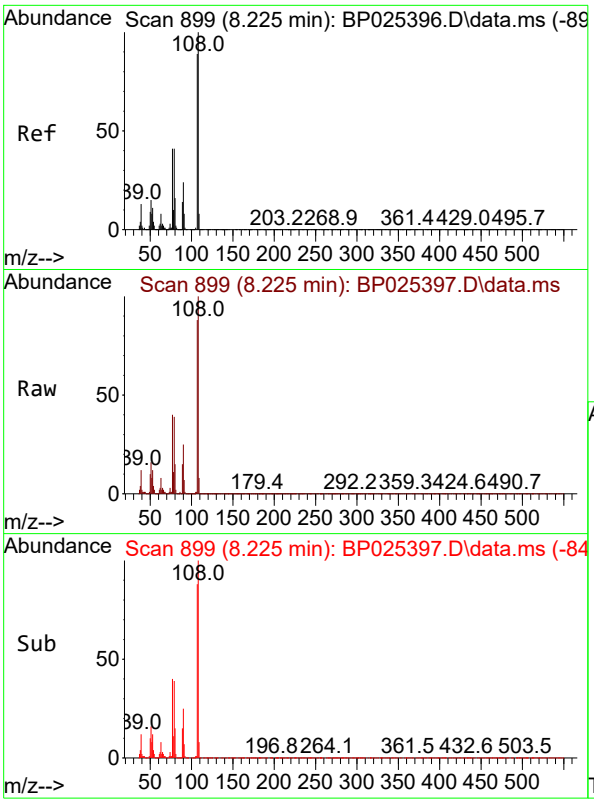


#16
2,2'-oxybis(1-Chloropropane)
Concen: 51.742 ng
RT: 8.319 min Scan# 915
Delta R.T. 0.006 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion: 45 Resp: 603716

Ion	Ratio	Lower	Upper
45	100		
77	15.6	0.0	35.3
79	12.4	0.0	31.8

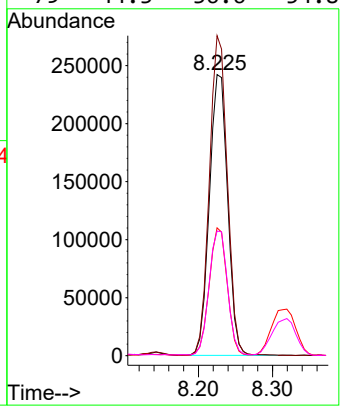




#17
2-Methylphenol
Concen: 53.211 ng
RT: 8.225 min Scan# 8
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:107 Resp: 41297

Ion	Ratio	Lower	Upper
107	100		
108	113.8	89.4	134.0
77	45.5	36.3	54.5
79	44.3	36.6	54.8



Instrument :
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ClientSampleId :
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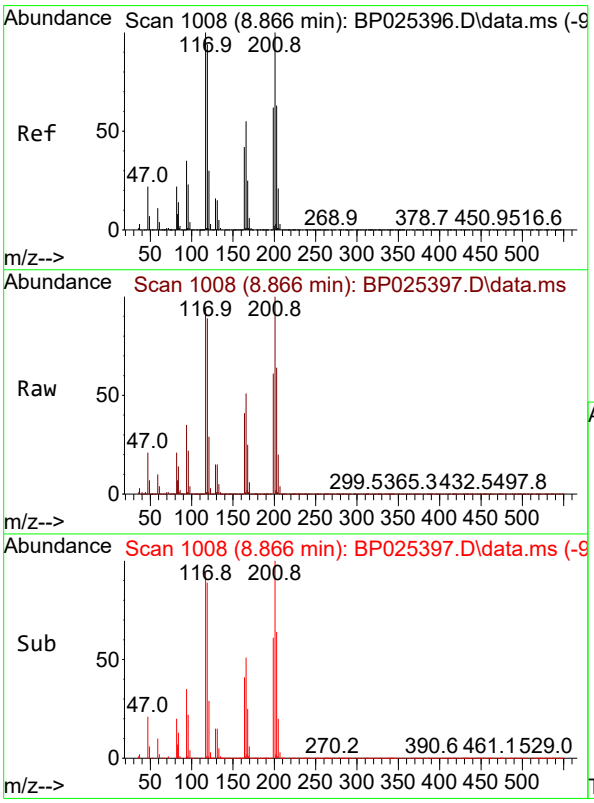
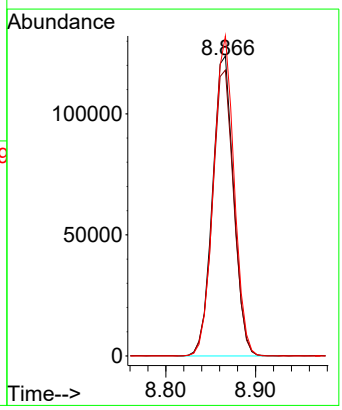
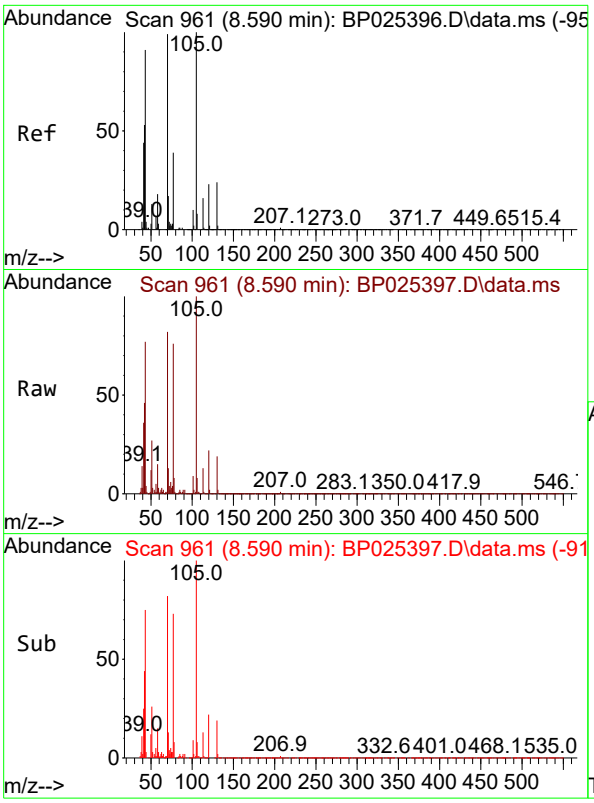


#18
Hexachloroethane
Concen: 52.178 ng
RT: 8.866 min Scan# 1008
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:117 Resp: 202672

Ion	Ratio	Lower	Upper
117	100		
119	95.4	75.1	112.7
201	106.7	80.1	120.1

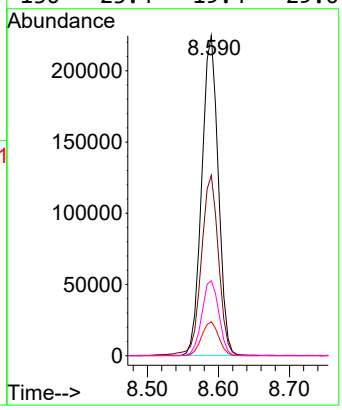




#19
n-Nitroso-di-n-propylamine
Concen: 51.419 ng
RT: 8.590 min Scan# 9
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion: 70 Resp: 36315

Ion	Ratio	Lower	Upper
70	100		
42	56.4	43.8	65.6
101	10.6	8.5	12.7
130	23.4	19.4	29.0



Instrument :
BNA_P
ClientSampleId :
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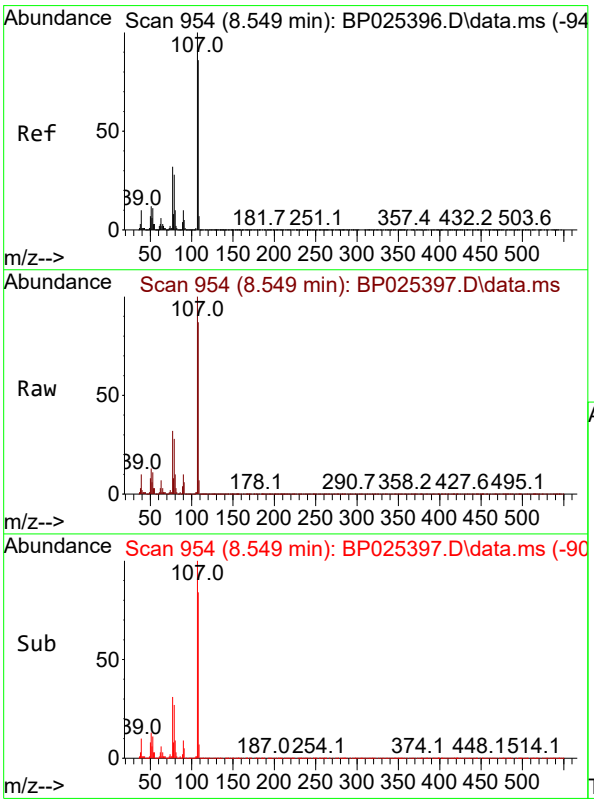
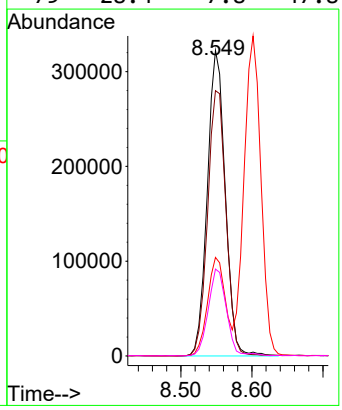
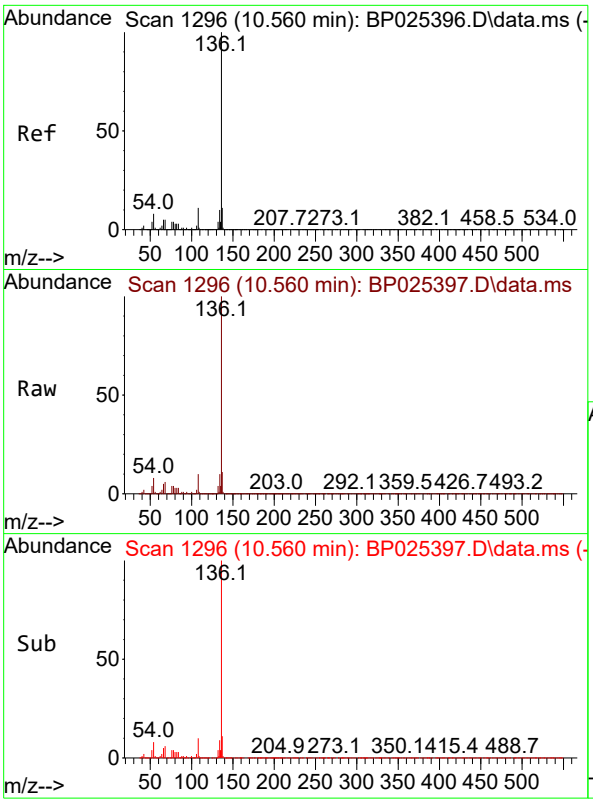


#20
3+4-Methylphenols
Concen: 52.538 ng
RT: 8.549 min Scan# 954
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:107 Resp: 565208

Ion	Ratio	Lower	Upper
107	100		
108	86.8	66.3	106.3
77	32.2	12.3	52.3
79	28.4	7.8	47.8

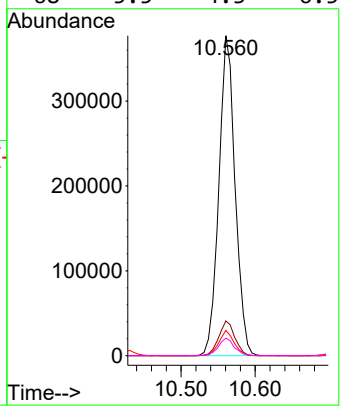




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.560 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:136 Resp: 57391

Ion	Ratio	Lower	Upper
136	100		
137	10.9	9.2	13.8
54	7.9	6.0	9.0
68	5.5	4.3	6.5



Instrument :
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ClientSampleId :
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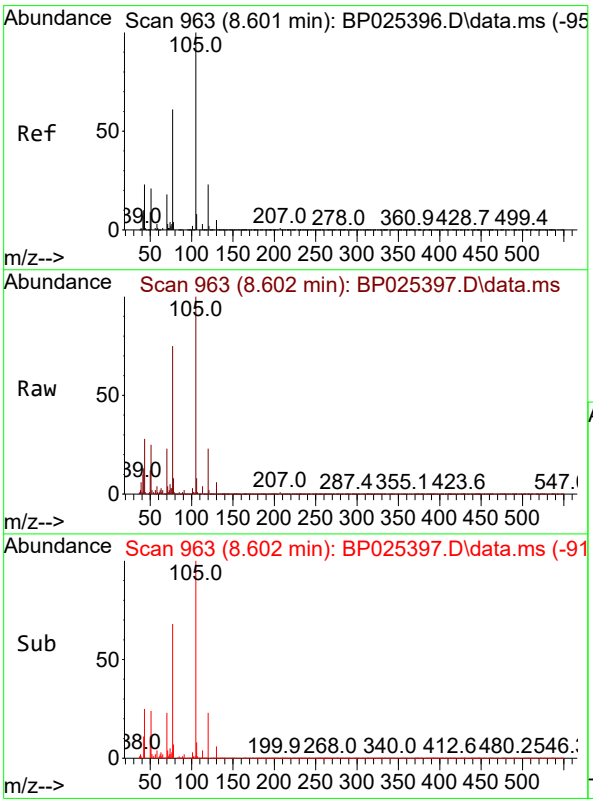
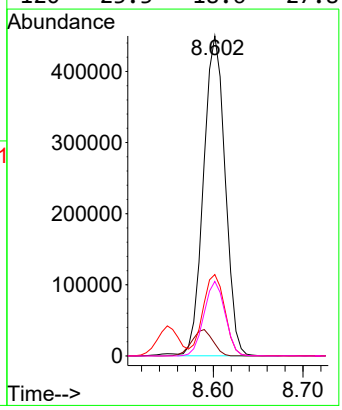
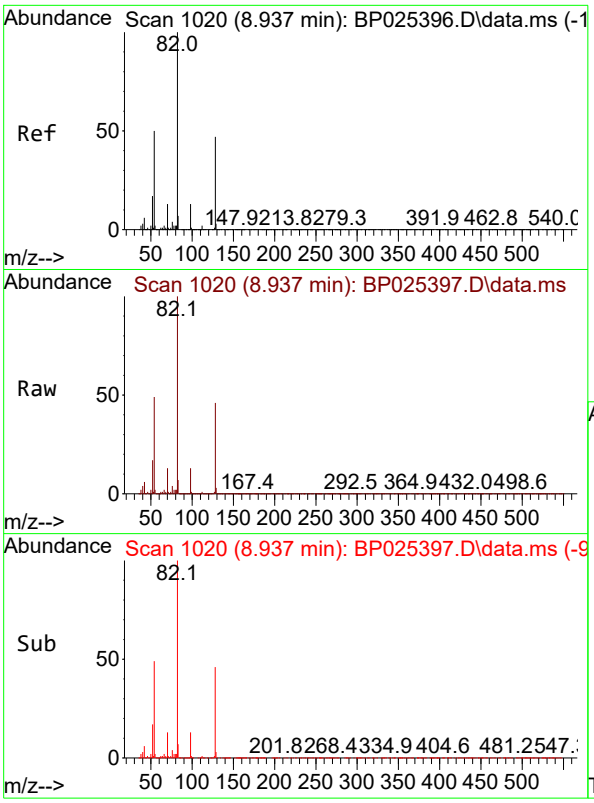


#22
Acetophenone
Concen: 52.131 ng
RT: 8.602 min Scan# 963
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:105 Resp: 750308

Ion	Ratio	Lower	Upper
105	100		
71	3.9	2.6	4.0
51	25.5	20.6	30.8
120	23.3	18.6	27.8

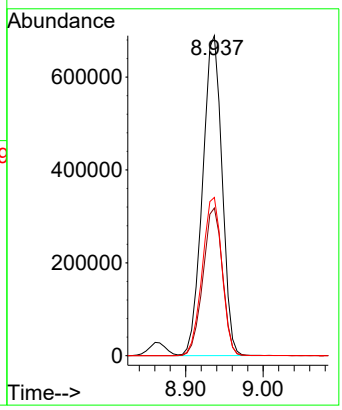




#23
Nitrobenzene-d5
Concen: 105.910 ng
RT: 8.937 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion: 82 Resp: 120160

Ion	Ratio	Lower	Upper
82	100		
128	46.2	37.7	56.5
54	49.4	39.8	59.6



Instrument :
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ClientSampleId :
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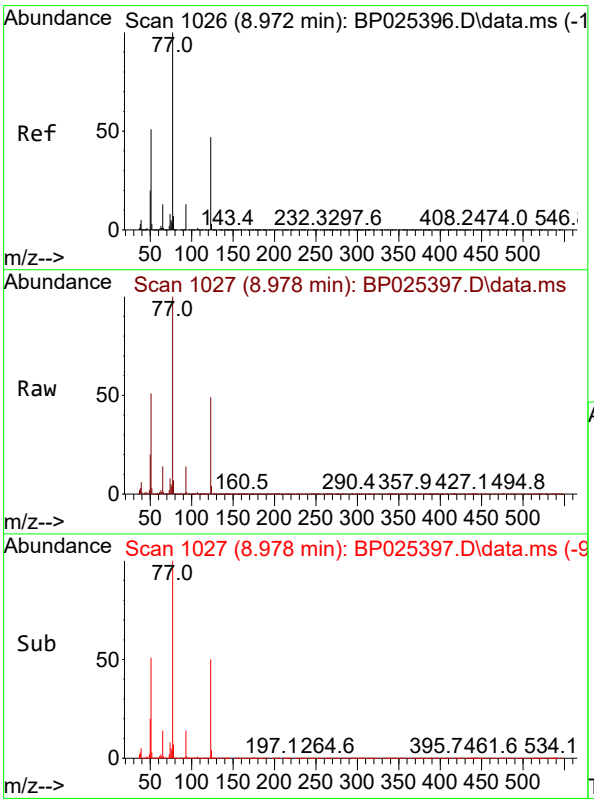
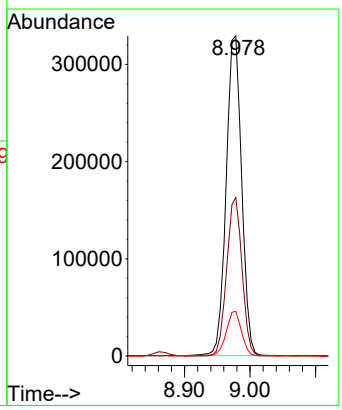
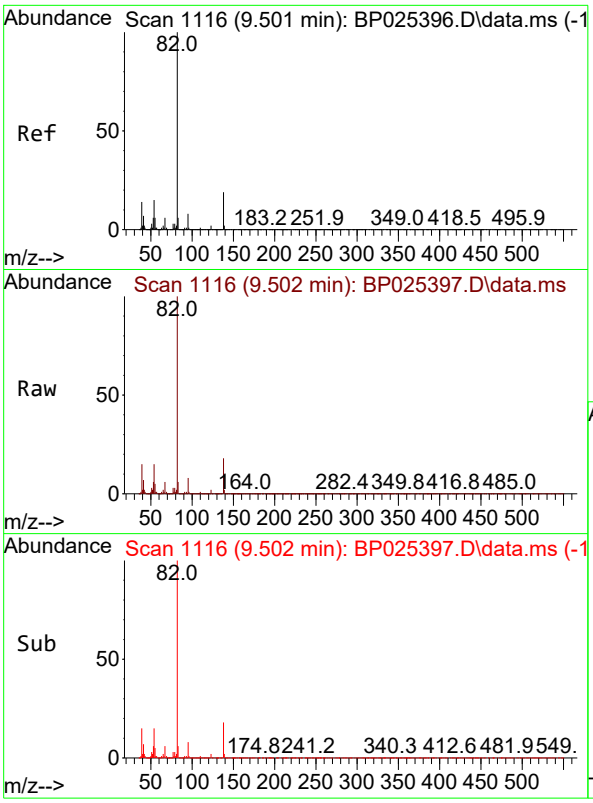


#24
Nitrobenzene
Concen: 53.024 ng
RT: 8.978 min Scan# 1027
Delta R.T. 0.006 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion: 77 Resp: 537647

Ion	Ratio	Lower	Upper
77	100		
123	49.5	38.6	58.0
65	13.9	10.6	15.8

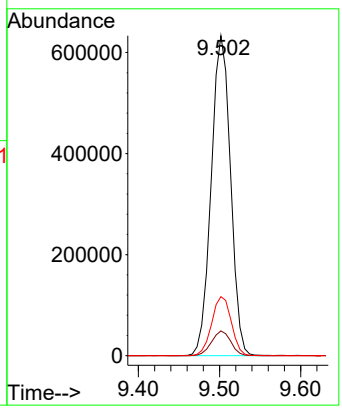




#25
Isophorone
Concen: 52.182 ng
RT: 9.502 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion: 82 Resp: 104773

Ion	Ratio	Lower	Upper
82	100		
95	7.8	6.4	9.6
138	18.5	15.4	23.0



Instrument :
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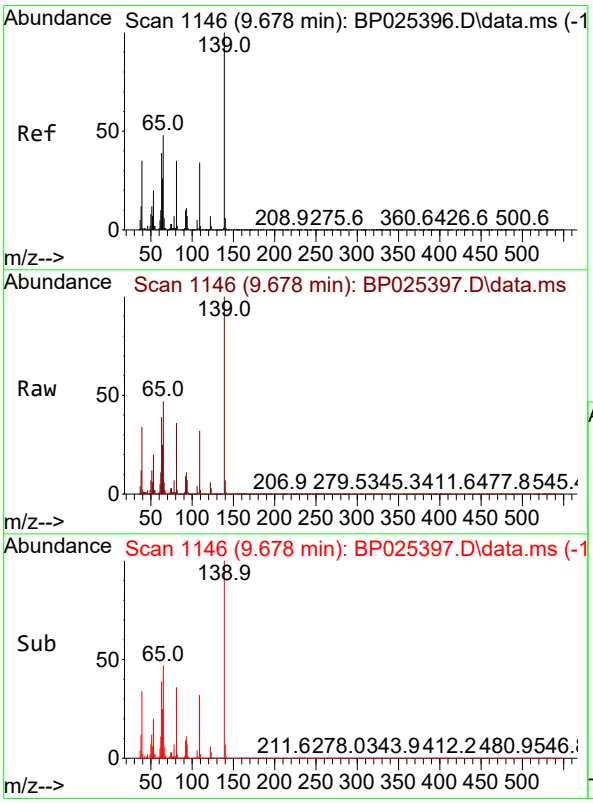
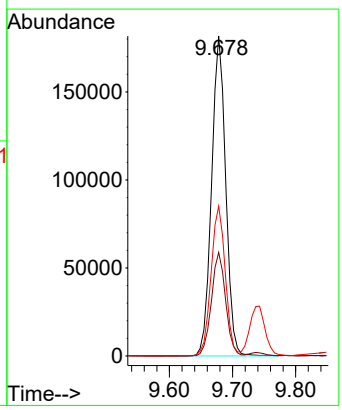
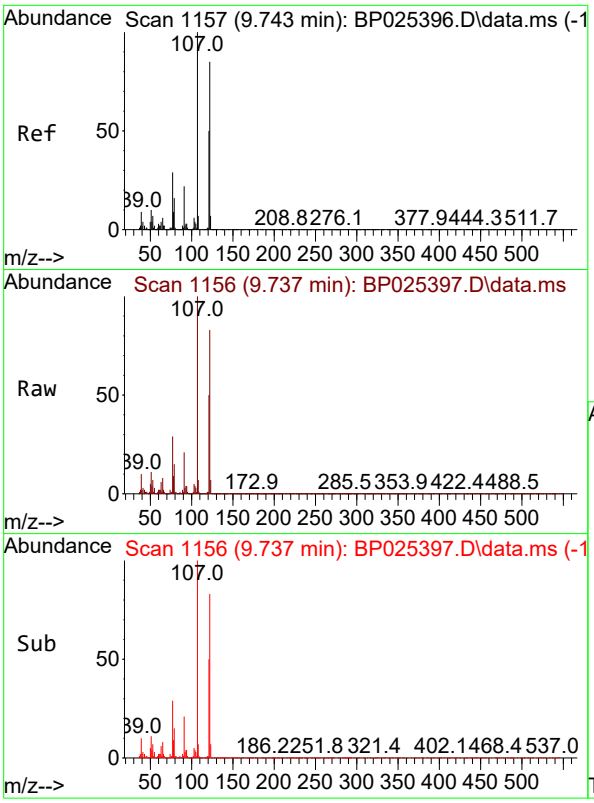


#26
2-Nitrophenol
Concen: 54.323 ng
RT: 9.678 min Scan# 1146
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:139 Resp: 282682

Ion	Ratio	Lower	Upper
139	100		
109	32.3	26.9	40.3
65	46.8	38.3	57.5

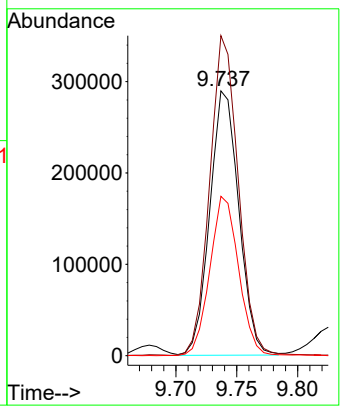




#27
2,4-Dimethylphenol
Concen: 53.806 ng
RT: 9.737 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:122 Resp: 48150

Ion	Ratio	Lower	Upper
122	100		
107	120.8	93.7	140.5
121	60.2	46.6	69.8



Instrument :
BNA_P
ClientSampleId :
SSTDICC050

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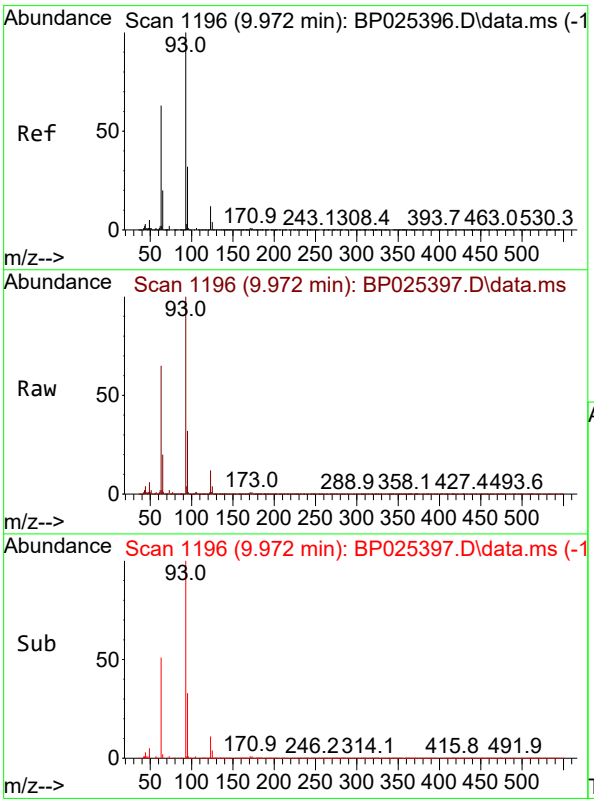
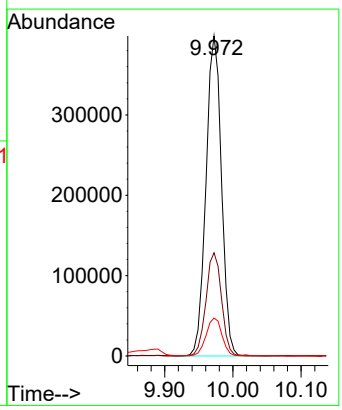
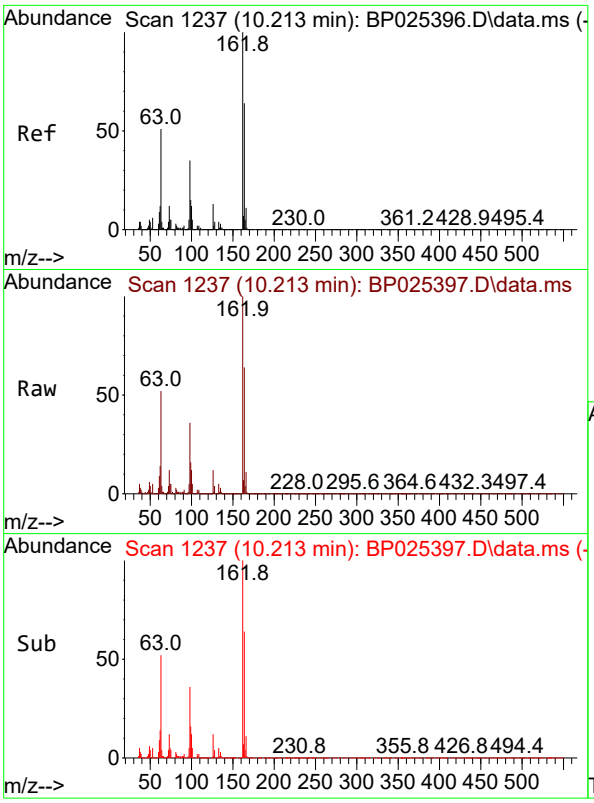


#28
bis(2-Chloroethoxy)methane
Concen: 51.909 ng
RT: 9.972 min Scan# 1196
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion: 93 Resp: 630027

Ion	Ratio	Lower	Upper
93	100		
95	32.2	25.4	38.0
123	11.8	9.4	14.0

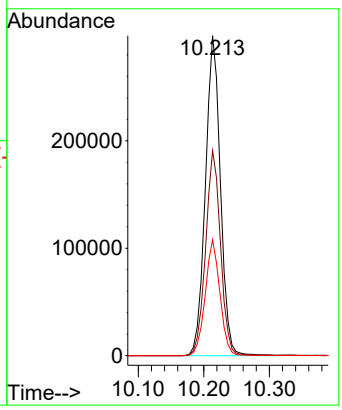




#29
2,4-Dichlorophenol
Concen: 53.478 ng
RT: 10.213 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:162 Resp: 47540

Ion	Ratio	Lower	Upper
162	100		
164	64.1	44.4	84.4
98	36.2	14.9	54.9



Instrument :
BNA_P
ClientSampleId :
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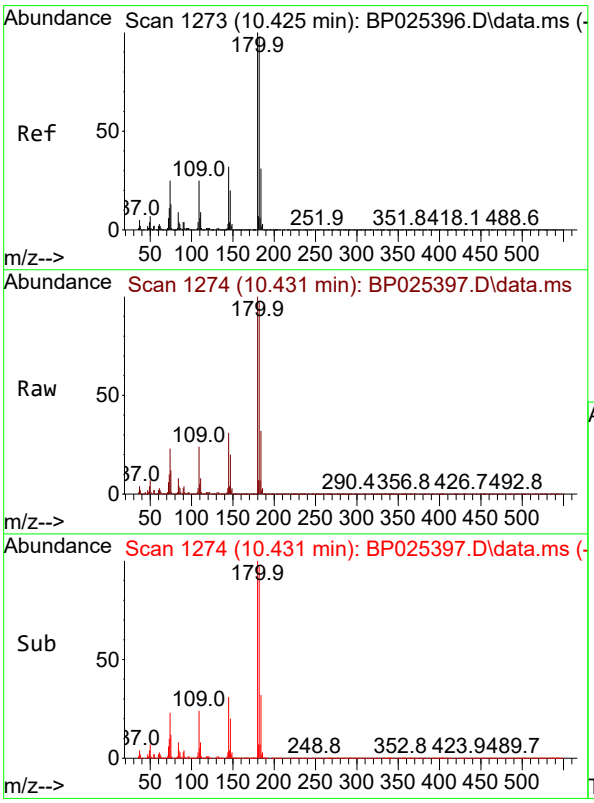
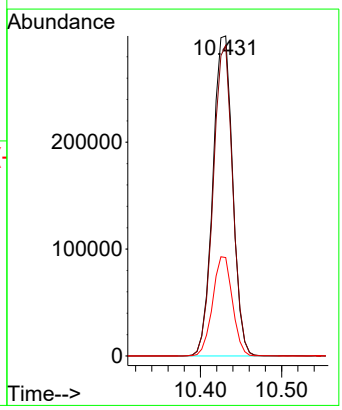
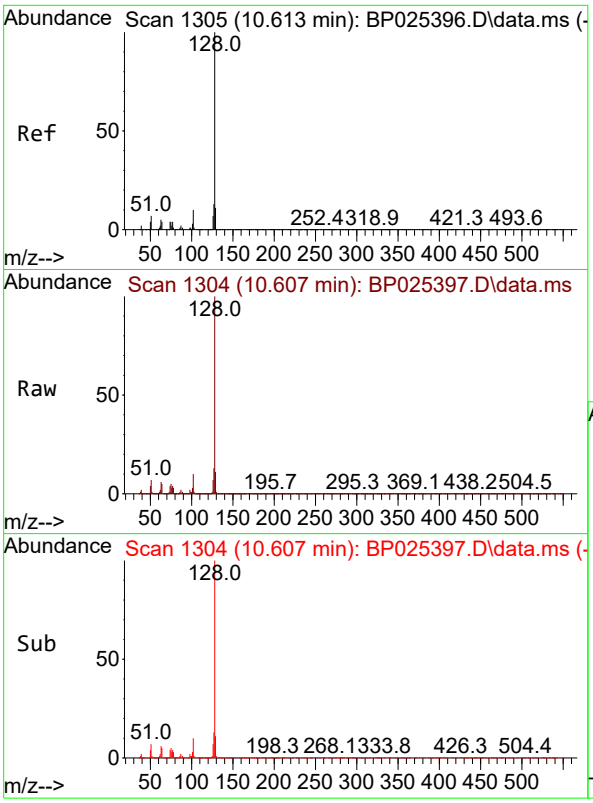


#30
1,2,4-Trichlorobenzene
Concen: 52.101 ng
RT: 10.431 min Scan# 1274
Delta R.T. 0.006 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:180 Resp: 507724

Ion	Ratio	Lower	Upper
180	100		
182	97.0	78.0	117.0
145	30.8	25.9	38.9

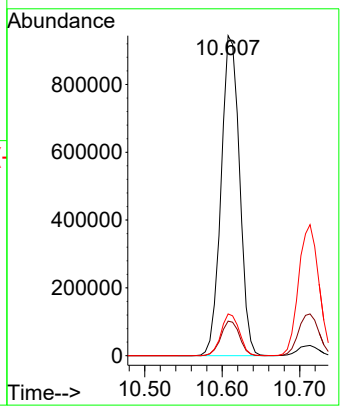




#31
Naphthalene
Concen: 52.305 ng
RT: 10.607 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:128 Resp: 156024

Ion	Ratio	Lower	Upper
128	100		
129	10.8	8.6	13.0
127	13.1	10.7	16.1



Instrument :
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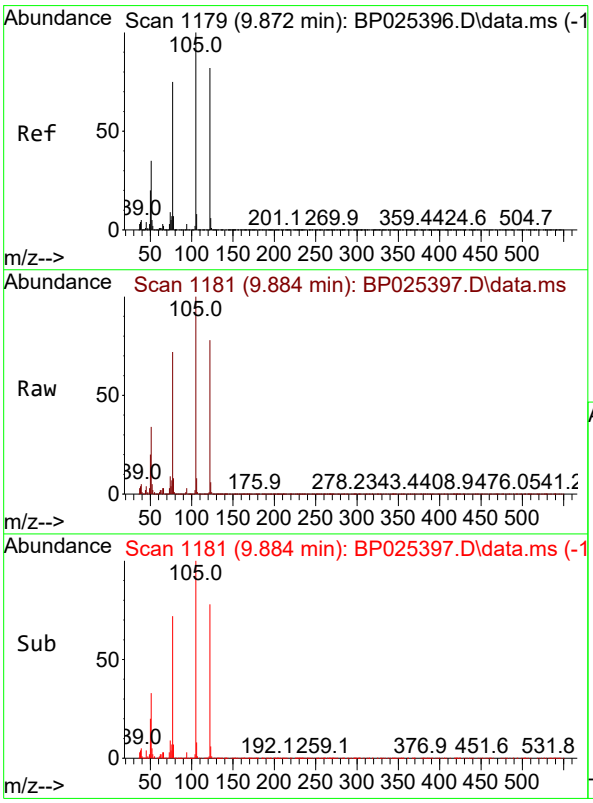
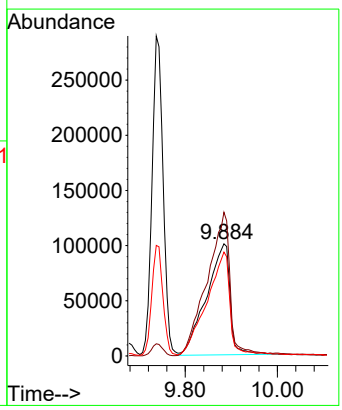
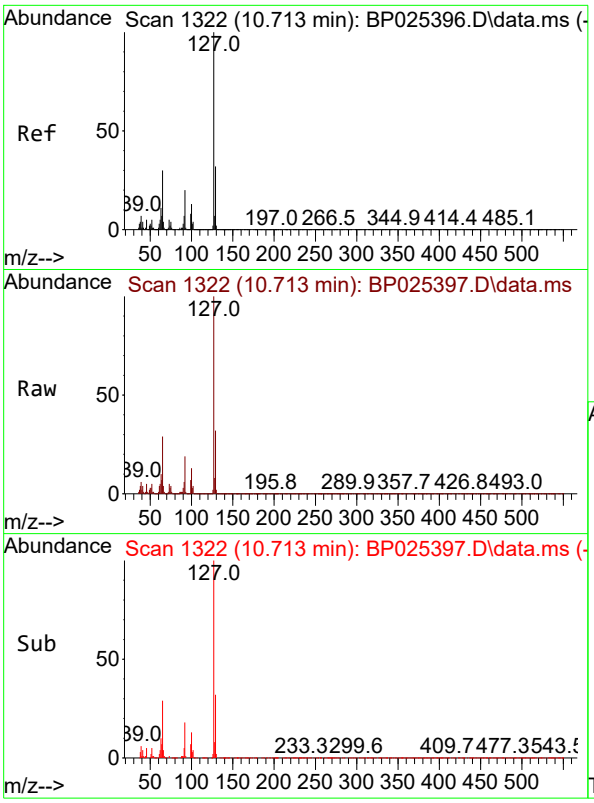


#32
Benzoic acid
Concen: 54.274 ng
RT: 9.884 min Scan# 1181
Delta R.T. 0.012 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:122 Resp: 357706

Ion	Ratio	Lower	Upper
122	100		
105	128.1	100.6	140.6
77	92.6	71.5	111.5

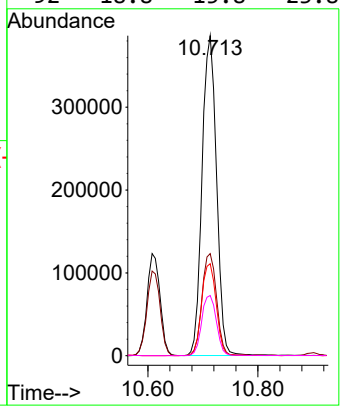




#33
4-Chloroaniline
Concen: 53.548 ng
RT: 10.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:127 Resp: 70556

Ion	Ratio	Lower	Upper
127	100		
129	31.9	25.4	38.2
65	28.7	23.8	35.6
92	18.8	15.8	23.8



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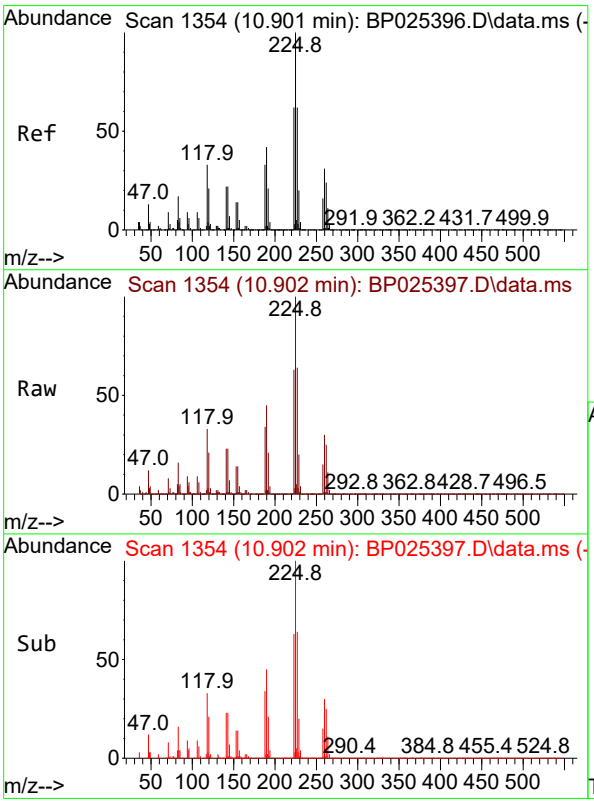
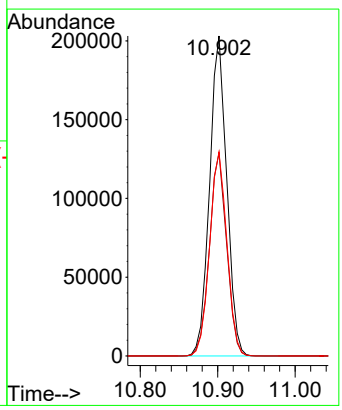
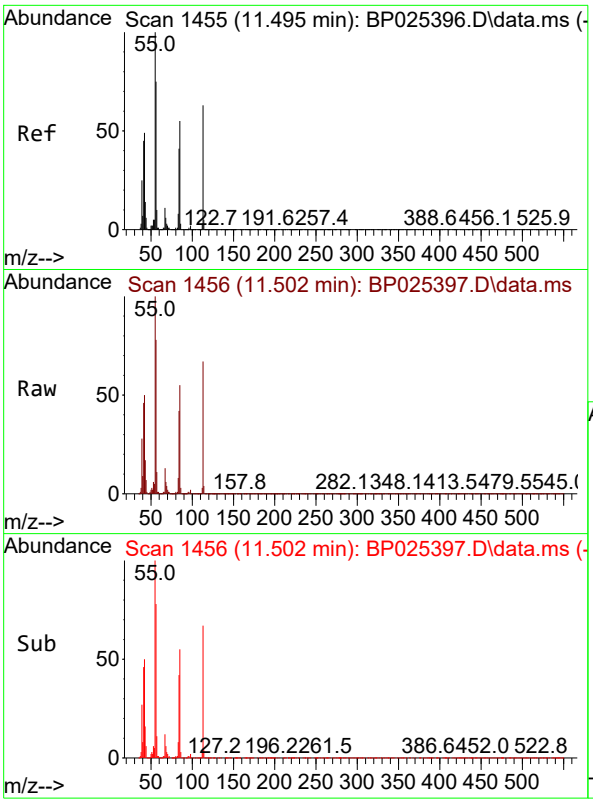


#34
Hexachlorobutadiene
Concen: 51.436 ng
RT: 10.902 min Scan# 1354
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:225 Resp: 312163

Ion	Ratio	Lower	Upper
225	100		
223	63.5	50.0	75.0
227	63.7	49.7	74.5





#35
Caprolactam
Concen: 52.969 ng
RT: 11.502 min Scan# 14
Delta R.T. 0.006 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:113 Resp: 17266

Ion	Ratio	Lower	Upper
113	100		
55	149.6	140.0	180.0
56	116.0	100.0	140.0

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

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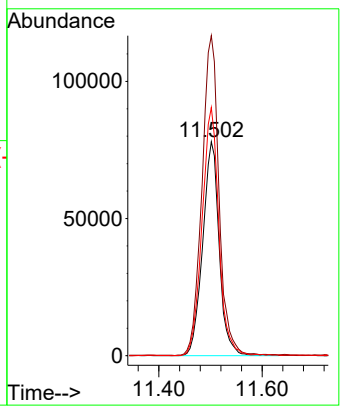
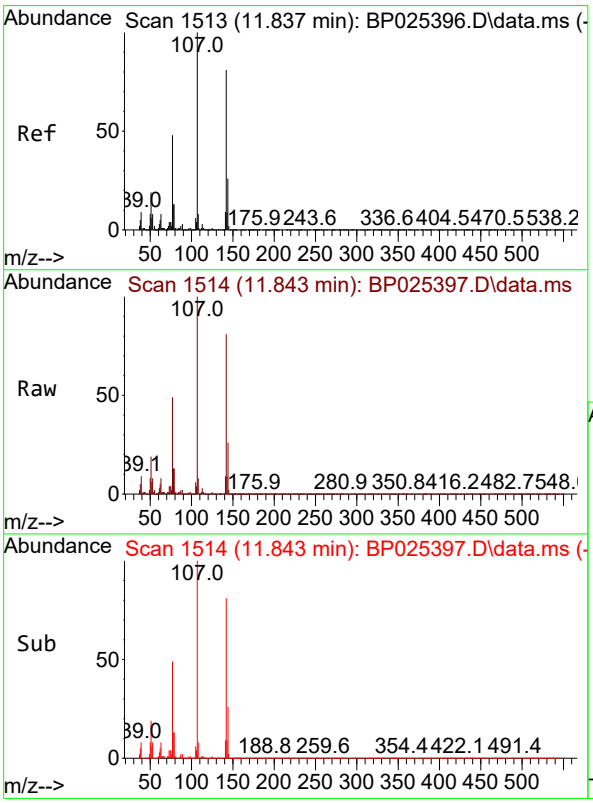
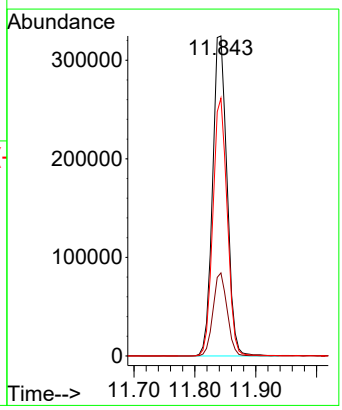


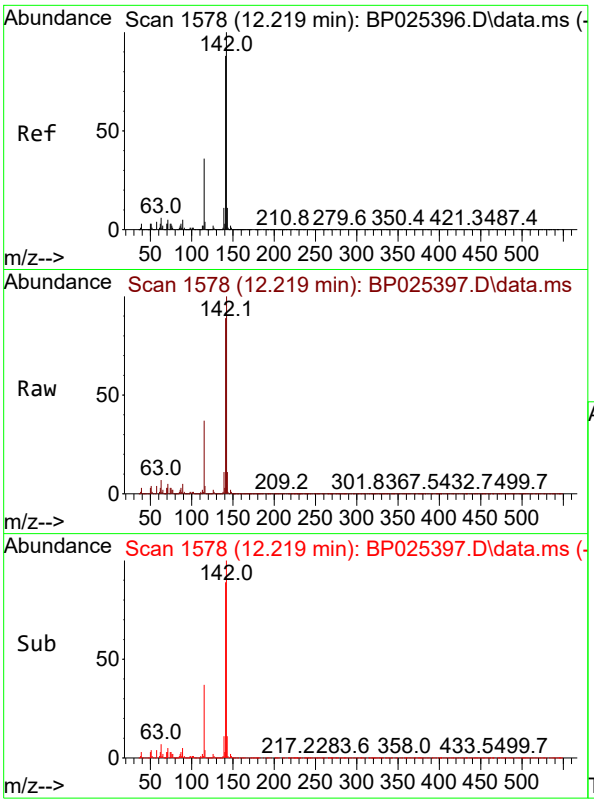


#36
4-Chloro-3-methylphenol
Concen: 52.407 ng
RT: 11.843 min Scan# 1514
Delta R.T. 0.006 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:107 Resp: 534583

Ion	Ratio	Lower	Upper
107	100		
144	26.0	21.0	31.4
142	80.6	64.6	97.0

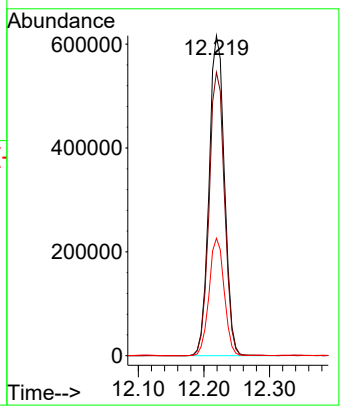




#37
2-Methylnaphthalene
Concen: 51.710 ng
RT: 12.219 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:142 Resp: 100381

Ion	Ratio	Lower	Upper
142	100		
141	88.5	70.3	105.5
115	36.7	28.9	43.3



Instrument :
BNA_P
ClientSampleId :
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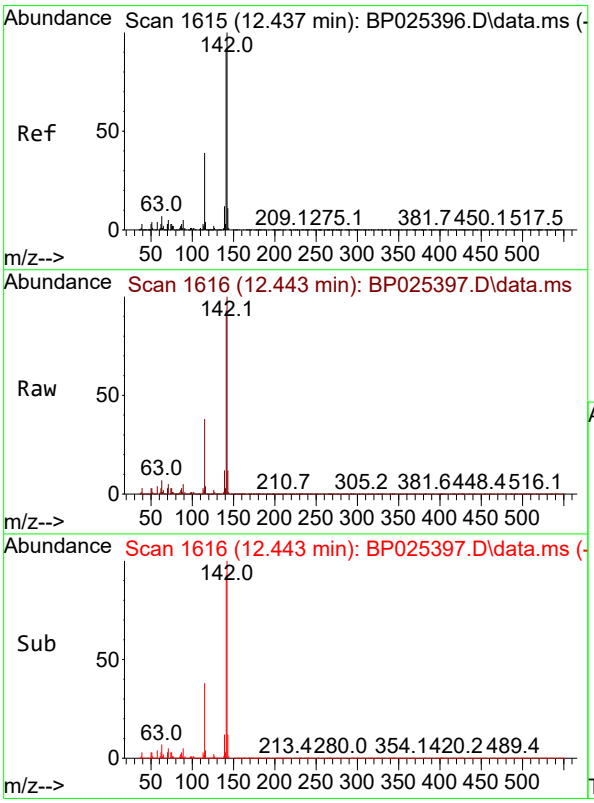
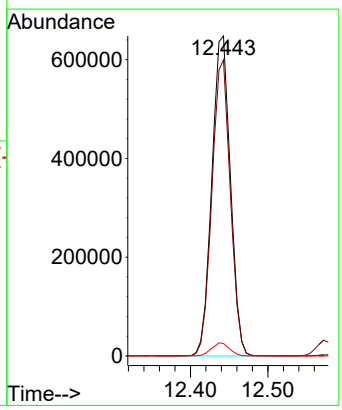
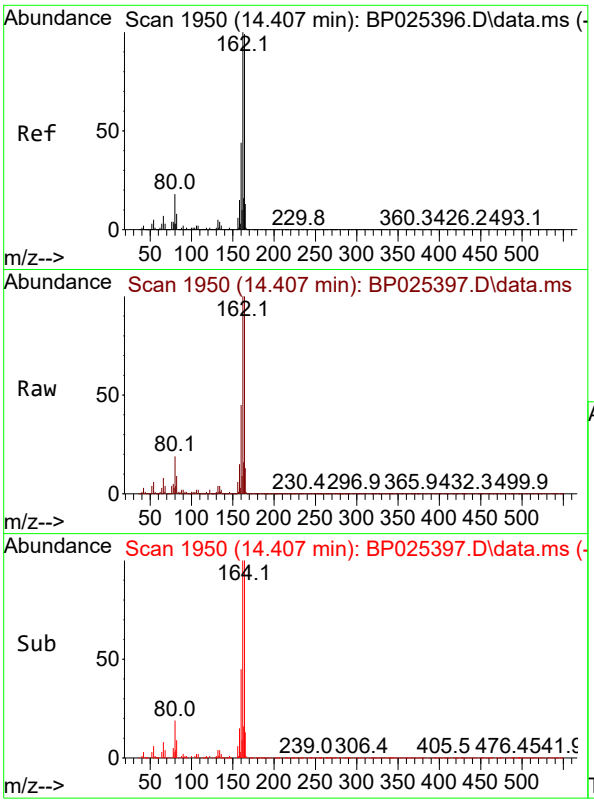


#38
1-Methylnaphthalene
Concen: 52.167 ng
RT: 12.443 min Scan# 1616
Delta R.T. 0.006 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:142 Resp: 1076949

Ion	Ratio	Lower	Upper
142	100		
141	92.5	73.1	109.7
116	3.9	3.2	4.8

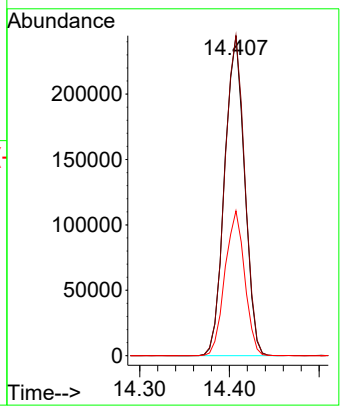




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.407 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:164 Resp: 37673

Ion	Ratio	Lower	Upper
164	100		
162	100.0	81.0	121.6
160	45.2	35.4	53.2



Instrument :
BNA_P
ClientSampleId :
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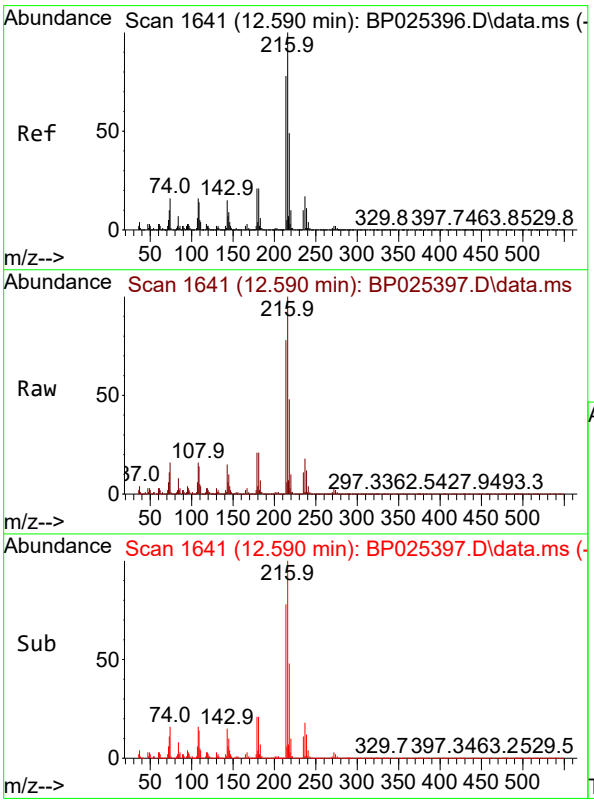
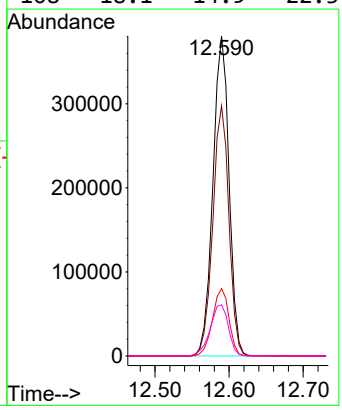
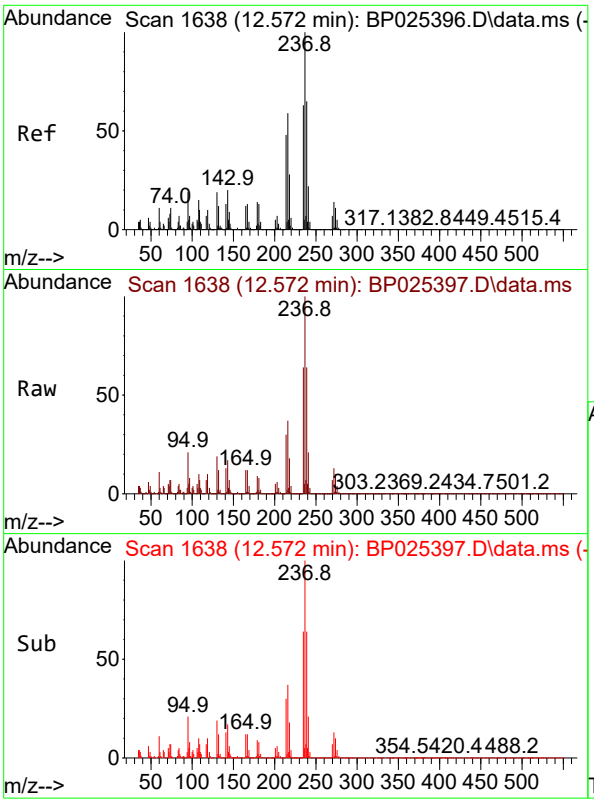


#40
1,2,4,5-Tetrachlorobenzene
Concen: 52.769 ng
RT: 12.590 min Scan# 1641
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:216 Resp: 574152

Ion	Ratio	Lower	Upper
216	100		
214	78.2	63.0	94.4
179	21.5	17.1	25.7
108	18.1	14.9	22.3





#41
Hexachlorocyclopentadiene
Concen: 55.392 ng
RT: 12.572 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:237 Resp: 36404

Ion	Ratio	Lower	Upper
237	100		
235	63.6	42.7	82.7
272	12.7	0.0	34.0

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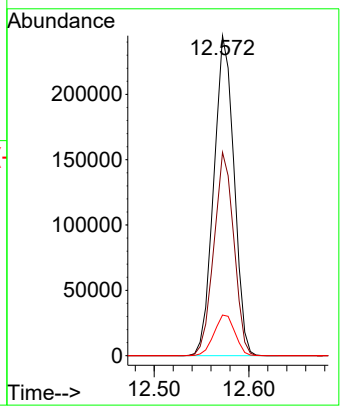
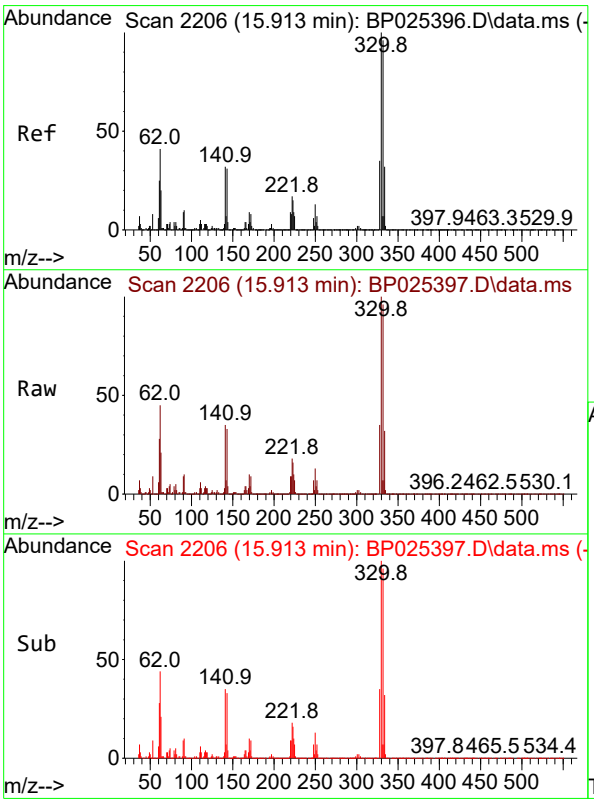
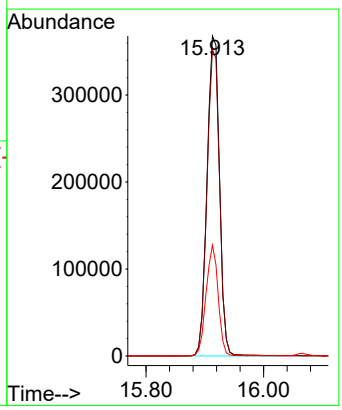


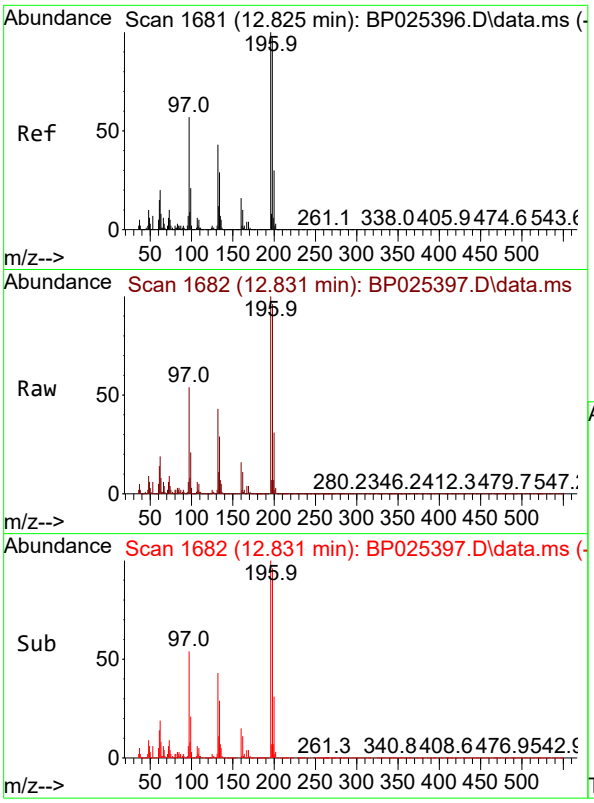


#42
2,4,6-Tribromophenol
Concen: 106.352 ng
RT: 15.913 min Scan# 2206
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:330 Resp: 539295

Ion	Ratio	Lower	Upper
330	100		
332	96.8	77.3	115.9
141	33.5	26.6	39.8

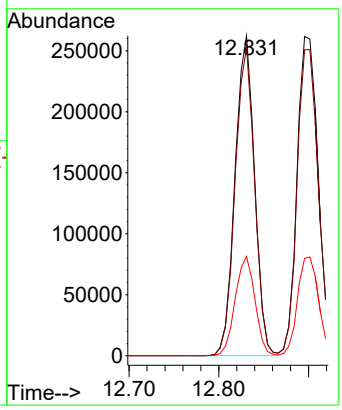




#43
2,4,6-Trichlorophenol
Concen: 53.971 ng
RT: 12.831 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:196 Resp: 39644

Ion	Ratio	Lower	Upper
196	100		
198	96.3	77.2	115.8
200	31.0	23.9	35.9



Instrument :
BNA_P
ClientSampleId :
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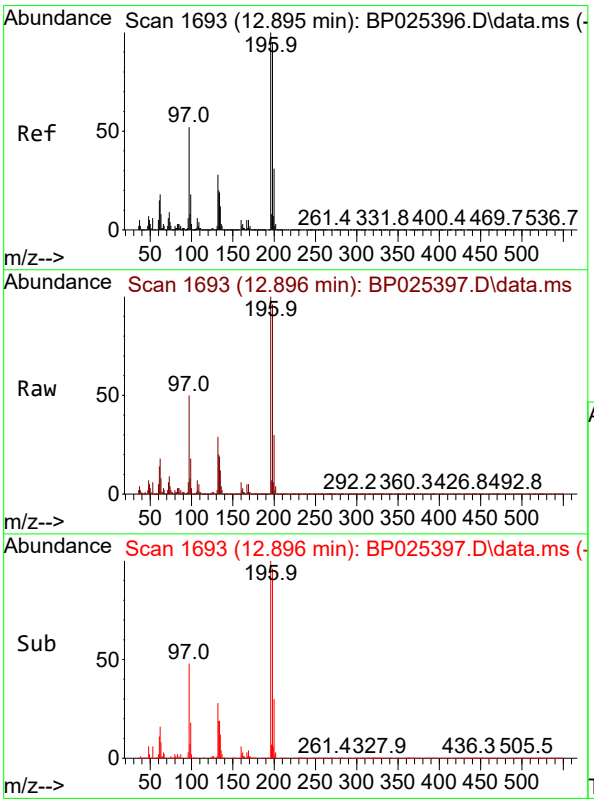
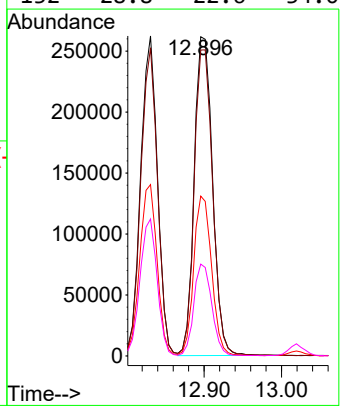
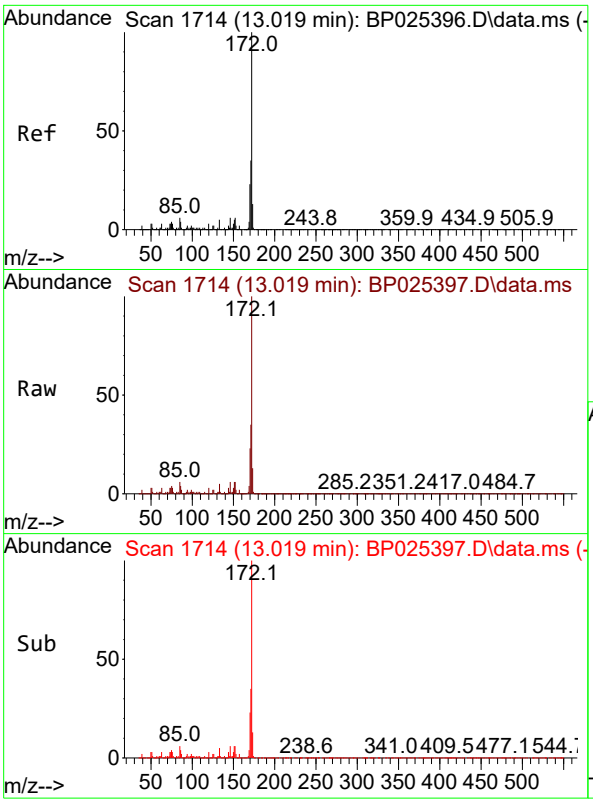


#44
2,4,5-Trichlorophenol
Concen: 53.421 ng
RT: 12.896 min Scan# 1693
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:196 Resp: 430061

Ion	Ratio	Lower	Upper
196	100		
198	95.8	76.2	114.2
97	50.1	41.2	61.8
132	28.8	22.6	34.0

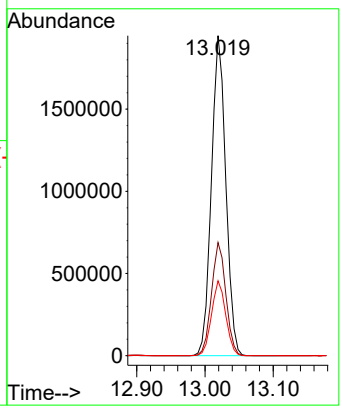




#45
2-Fluorobiphenyl
Concen: 103.632 ng
RT: 13.019 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:172 Resp: 285663

Ion	Ratio	Lower	Upper
172	100		
171	35.3	28.1	42.1
170	23.4	18.6	28.0



Instrument :
BNA_P
ClientSampleId :
SSTDICC050

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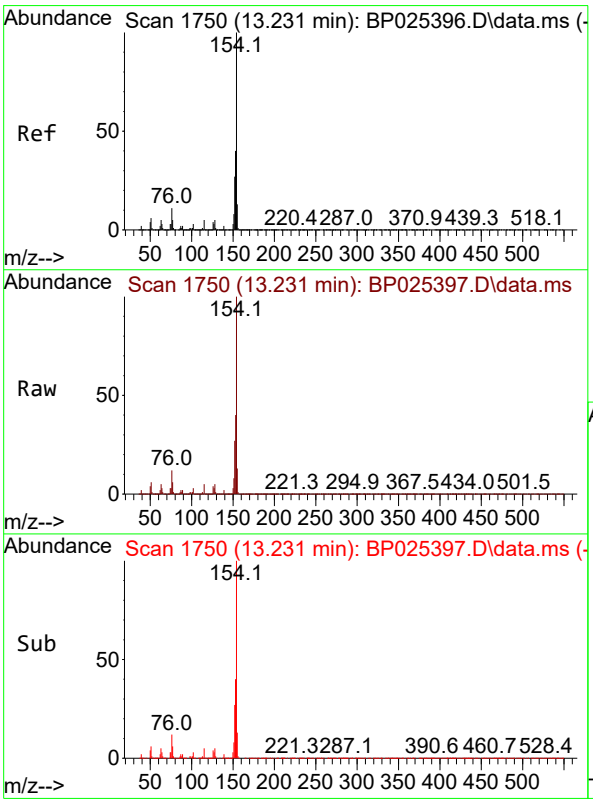
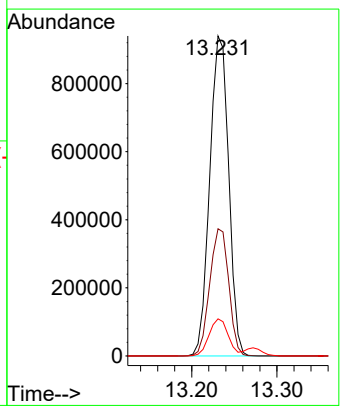
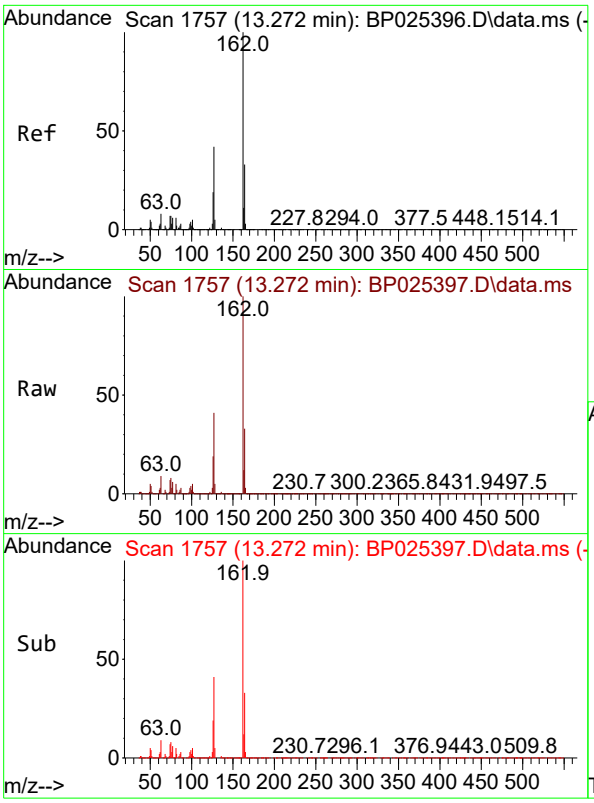


#46
1,1'-Biphenyl
Concen: 52.922 ng
RT: 13.231 min Scan# 1750
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:154 Resp: 1447968

Ion	Ratio	Lower	Upper
154	100		
153	39.8	19.5	59.5
76	11.6	0.0	31.1

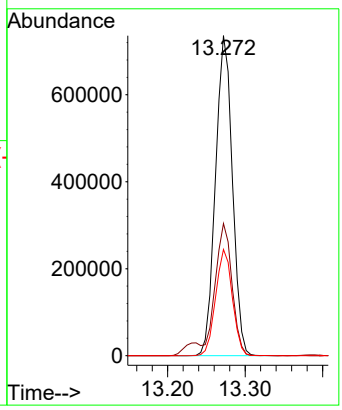




#47
2-Chloronaphthalene
Concen: 52.344 ng
RT: 13.272 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:162 Resp: 111492

Ion	Ratio	Lower	Upper
162	100		
127	41.3	33.4	50.2
164	33.2	26.2	39.2



Instrument :
BNA_P
ClientSampleId :
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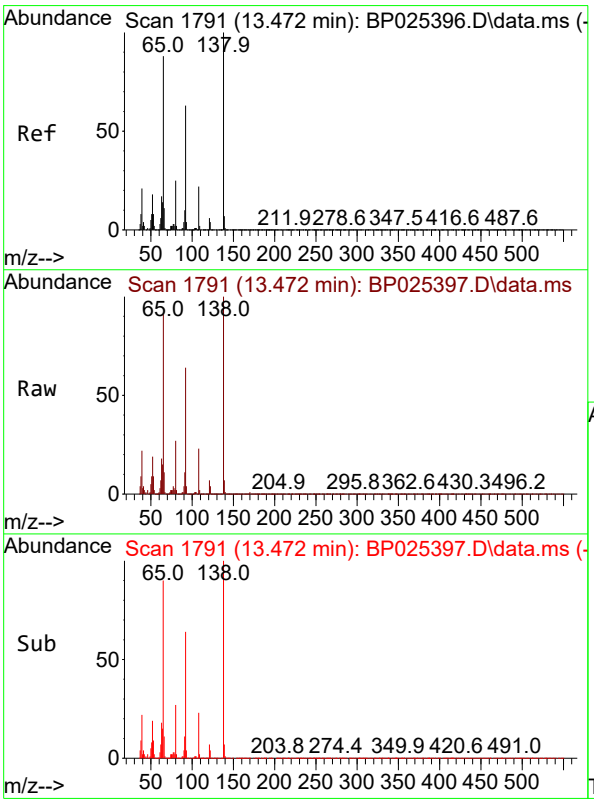
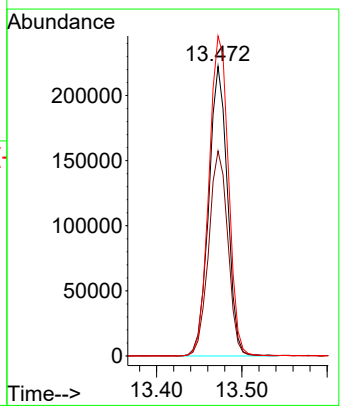
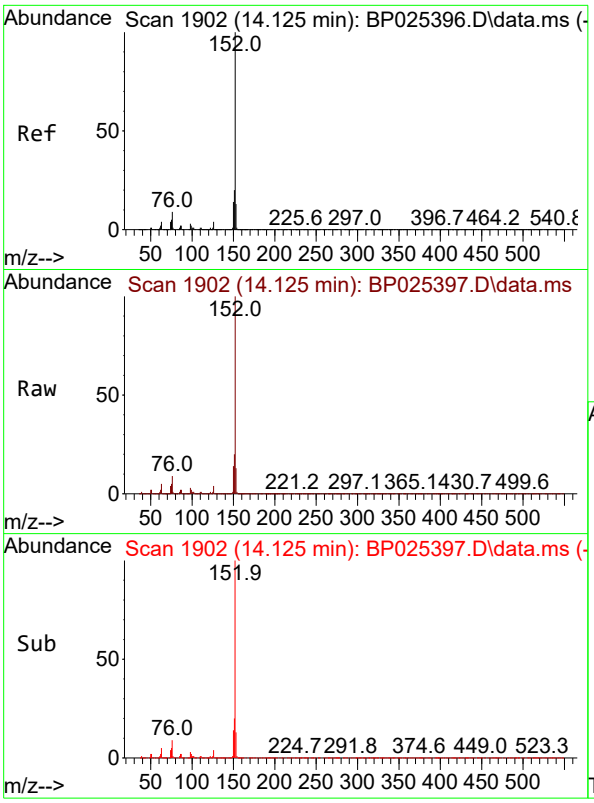


#48
2-Nitroaniline
Concen: 54.613 ng
RT: 13.472 min Scan# 1791
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion: 65 Resp: 338939

Ion	Ratio	Lower	Upper
65	100		
92	70.7	57.6	86.4
138	110.5	91.0	136.6

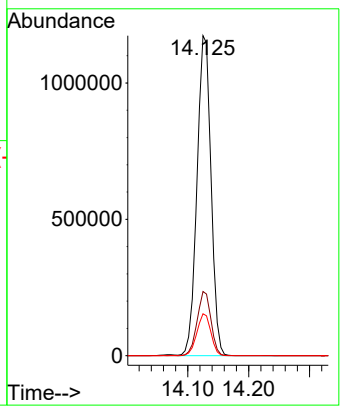




#49
Acenaphthylene
Concen: 53.227 ng
RT: 14.125 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:152 Resp: 187599

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.0	24.0
153	13.1	10.6	15.8



Instrument :
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ClientSampleId :
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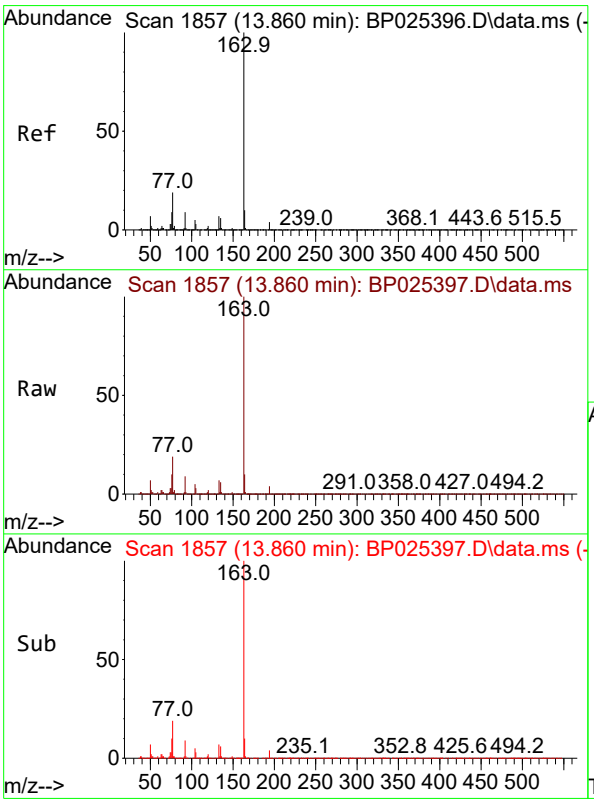
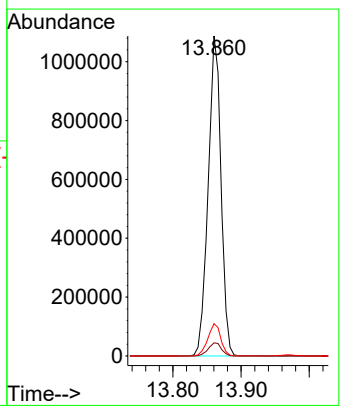
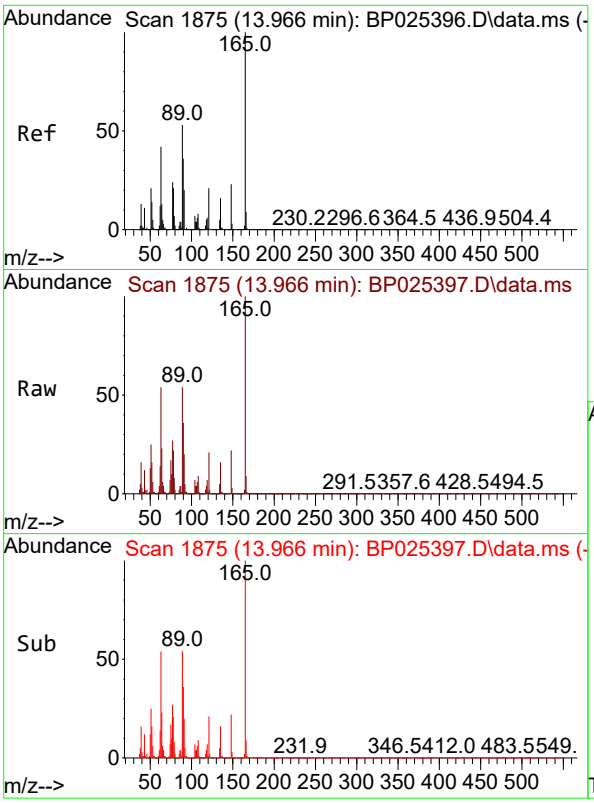


#50
Dimethylphthalate
Concen: 51.622 ng
RT: 13.860 min Scan# 1857
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:163 Resp: 1424127

Ion	Ratio	Lower	Upper
163	100		
194	4.1	3.4	5.0
164	10.1	7.9	11.9

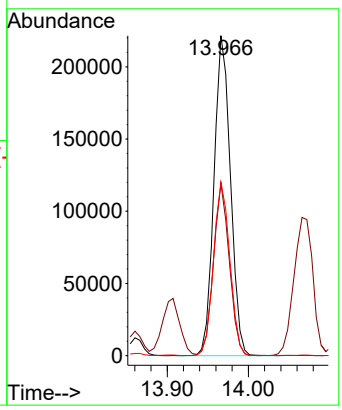




#51
2,6-Dinitrotoluene
Concen: 53.683 ng
RT: 13.966 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:165 Resp: 31214

Ion	Ratio	Lower	Upper
165	100		
63	53.8	40.9	61.3
89	54.2	42.1	63.1



Instrument :
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ClientSampleId :
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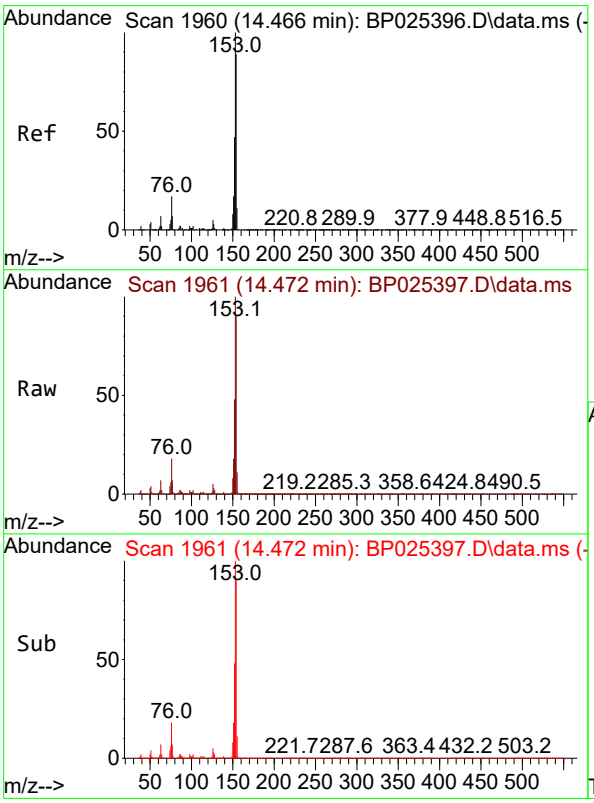
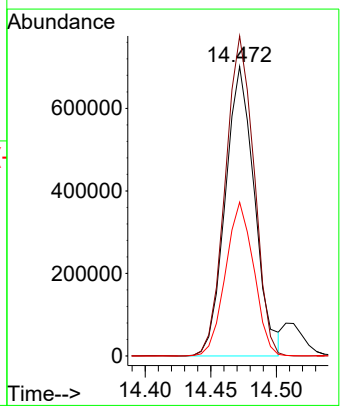
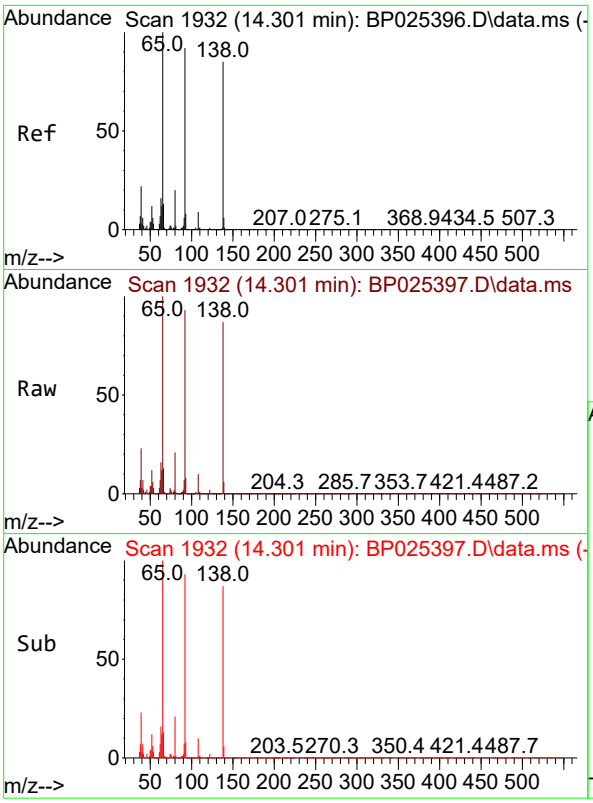


#52
Acenaphthene
Concen: 52.577 ng
RT: 14.472 min Scan# 1961
Delta R.T. 0.006 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:154 Resp: 1087721

Ion	Ratio	Lower	Upper
154	100		
153	110.6	90.2	135.2
152	53.1	42.1	63.1

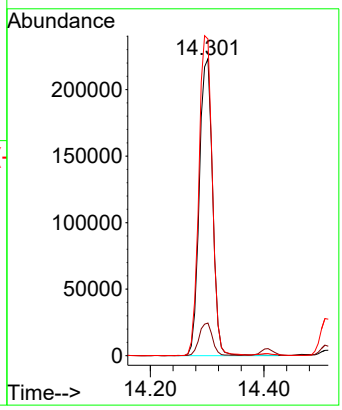




#53
3-Nitroaniline
Concen: 55.339 ng
RT: 14.301 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:138 Resp: 36203

Ion	Ratio	Lower	Upper
138	100		
108	11.0	8.3	12.5
92	106.6	86.2	129.2



Instrument :
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ClientSampleId :
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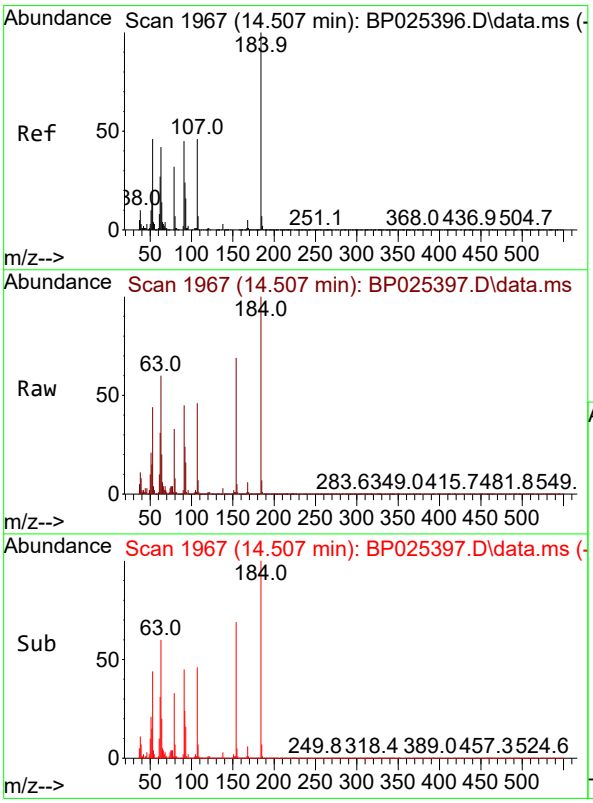
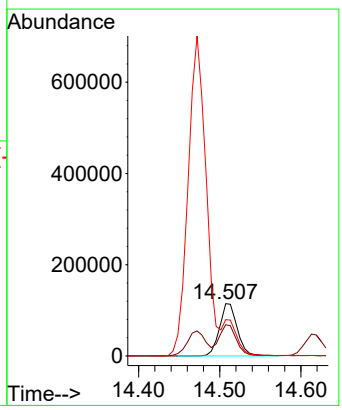
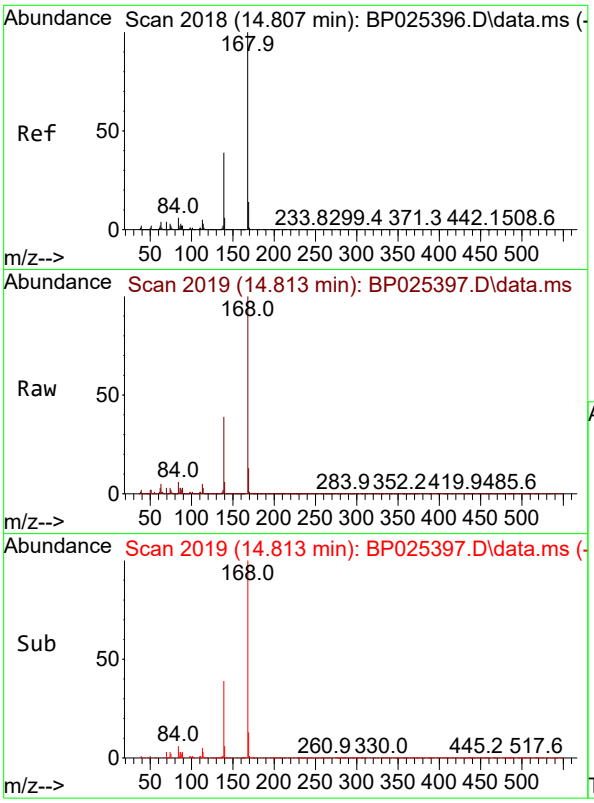


#54
2,4-Dinitrophenol
Concen: 56.503 ng
RT: 14.507 min Scan# 1967
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:184 Resp: 175453

Ion	Ratio	Lower	Upper
184	100		
63	59.7	49.4	74.2
154	69.4	54.6	82.0

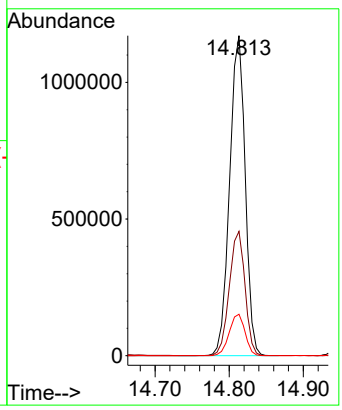




#55
Dibenzofuran
Concen: 52.147 ng
RT: 14.813 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:168 Resp: 170563

Ion	Ratio	Lower	Upper
168	100		
139	38.9	31.5	47.3
169	13.0	10.9	16.3



Instrument :
BNA_P
ClientSampleId :
SSTDICC050

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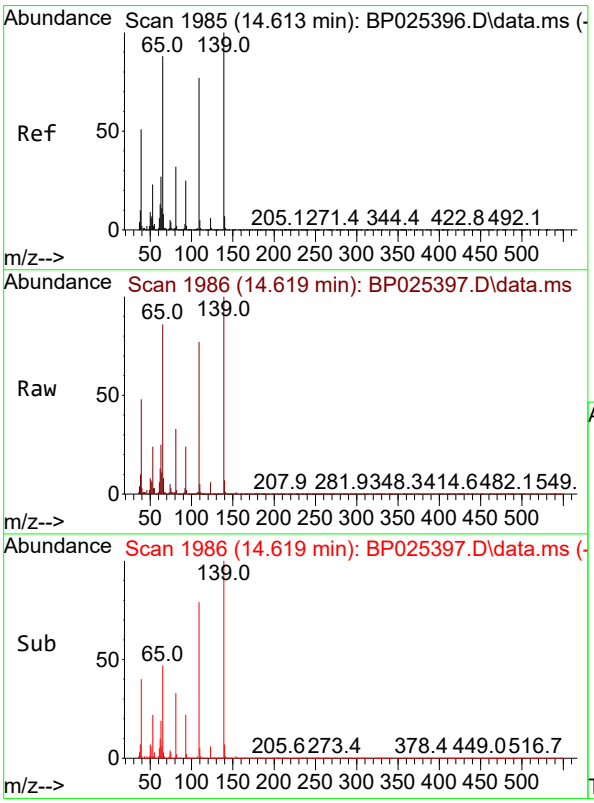
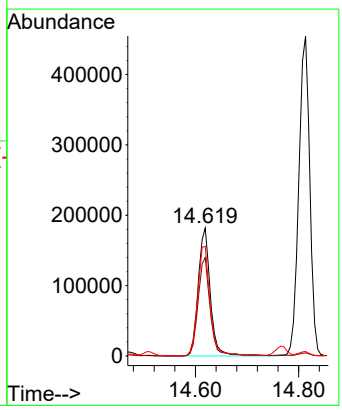
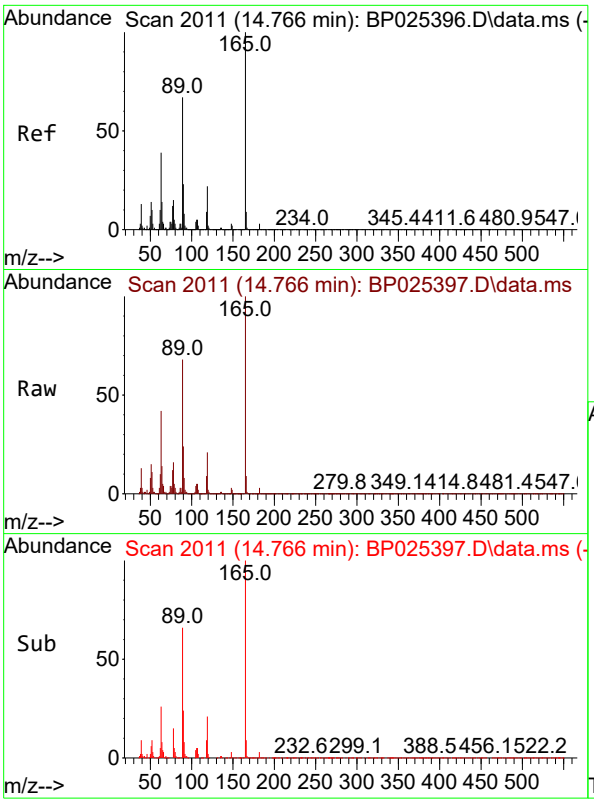


#56
4-Nitrophenol
Concen: 55.103 ng
RT: 14.619 min Scan# 1986
Delta R.T. 0.006 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:139 Resp: 296227

Ion	Ratio	Lower	Upper
139	100		
109	76.8	56.6	96.6
65	85.5	68.2	108.2

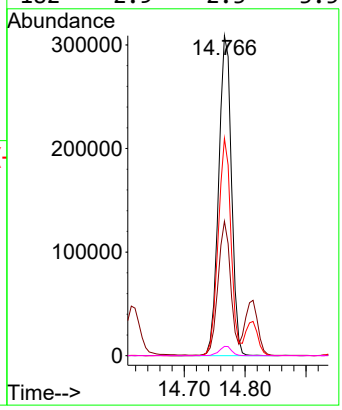




#57
2,4-Dinitrotoluene
Concen: 54.354 ng
RT: 14.766 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:165 Resp: 45092

Ion	Ratio	Lower	Upper
165	100		
63	42.0	31.4	47.2
89	67.9	53.3	79.9
182	2.9	2.3	3.5



Instrument :
BNA_P
ClientSampleId :
SSTDICC050

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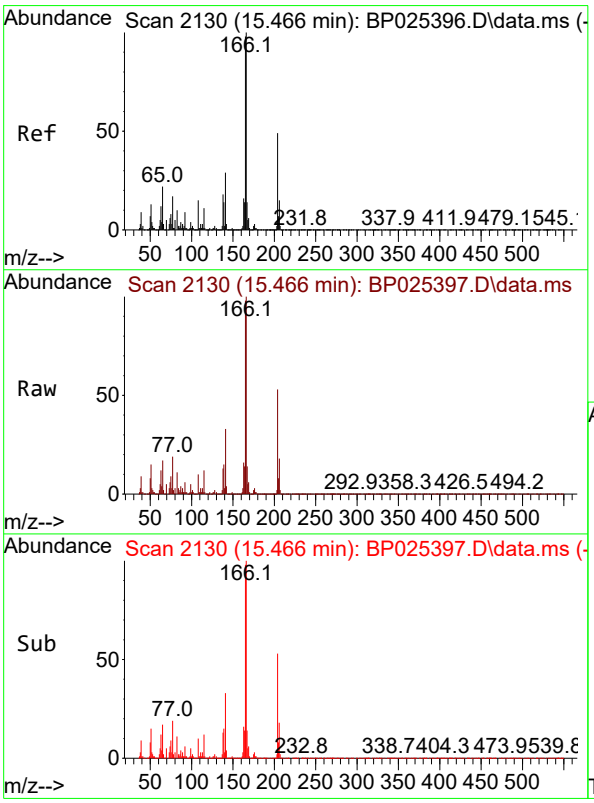
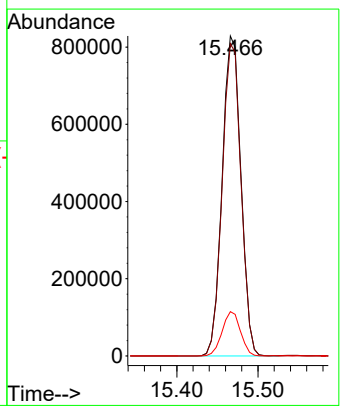
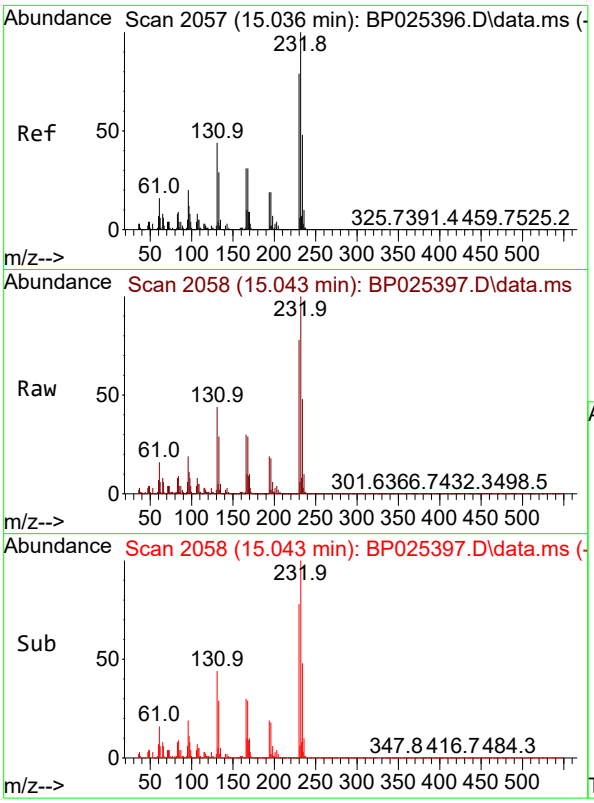


#58
Fluorene
Concen: 51.627 ng
RT: 15.466 min Scan# 2130
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:166 Resp: 1332448

Ion	Ratio	Lower	Upper
166	100		
165	97.6	78.8	118.2
167	13.9	11.0	16.4

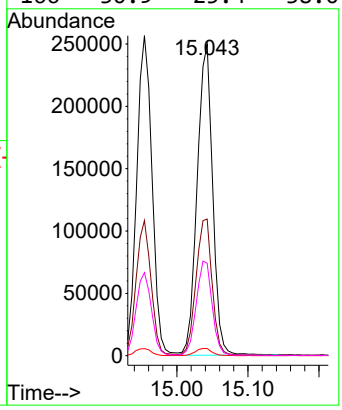




#59
2,3,4,6-Tetrachlorophenol
Concen: 53.281 ng
RT: 15.043 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:232 Resp: 37874

Ion	Ratio	Lower	Upper
232	100		
131	46.0	37.0	55.6
130	2.5	1.9	2.9
166	30.9	25.4	38.0



Instrument :
BNA_P
ClientSampleId :
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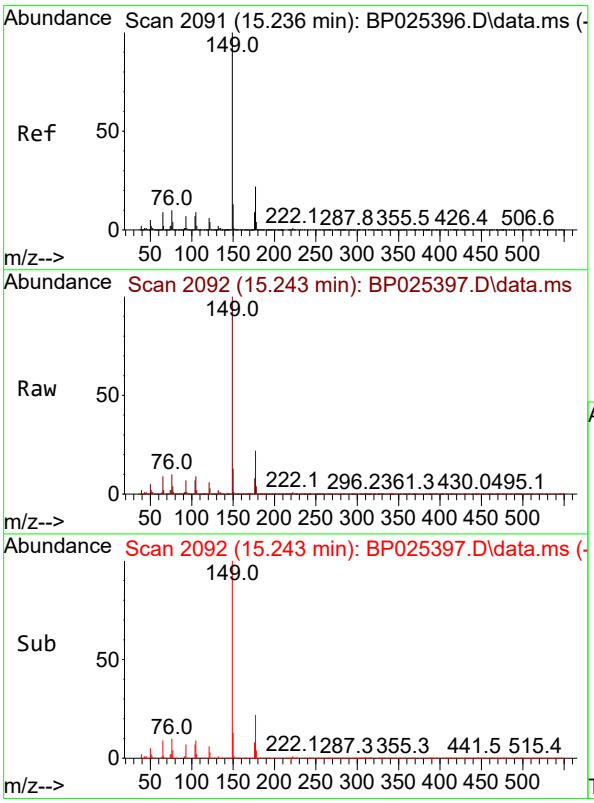
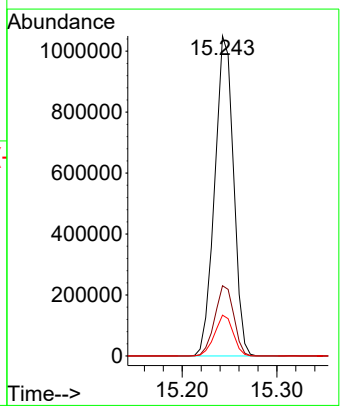
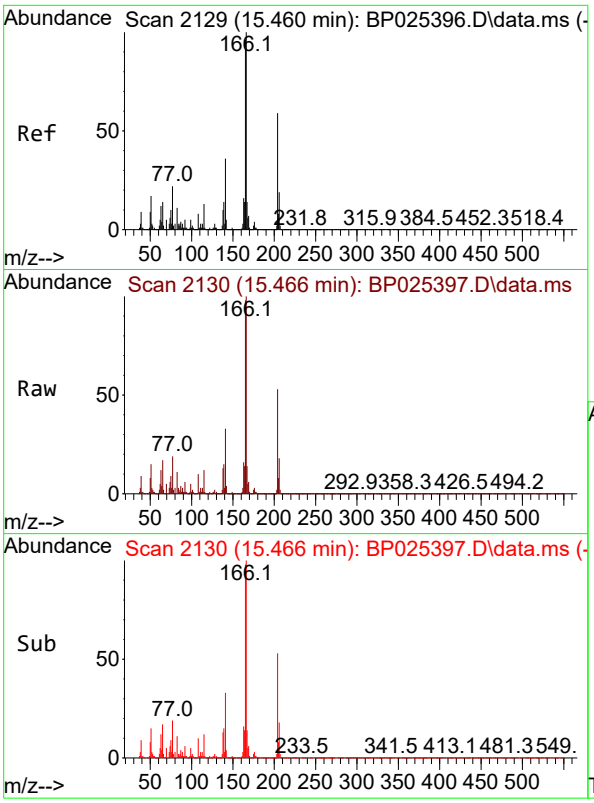


#60
Diethylphthalate
Concen: 51.728 ng
RT: 15.243 min Scan# 2092
Delta R.T. 0.006 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:149 Resp: 1450033

Ion	Ratio	Lower	Upper
149	100		
177	21.9	17.3	25.9
150	12.8	10.3	15.5

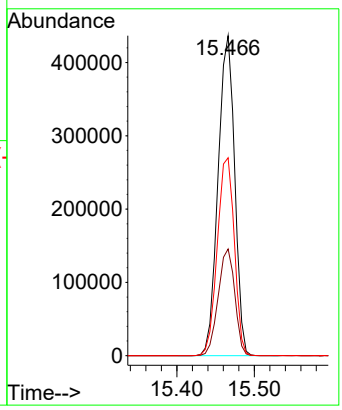




#61
4-Chlorophenyl-phenylether
Concen: 50.647 ng
RT: 15.466 min Scan# 21
Delta R.T. 0.006 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:204 Resp: 65010

Ion	Ratio	Lower	Upper
204	100		
206	33.4	25.8	38.8
141	61.8	49.4	74.2



Instrument :
BNA_P
ClientSampleId :
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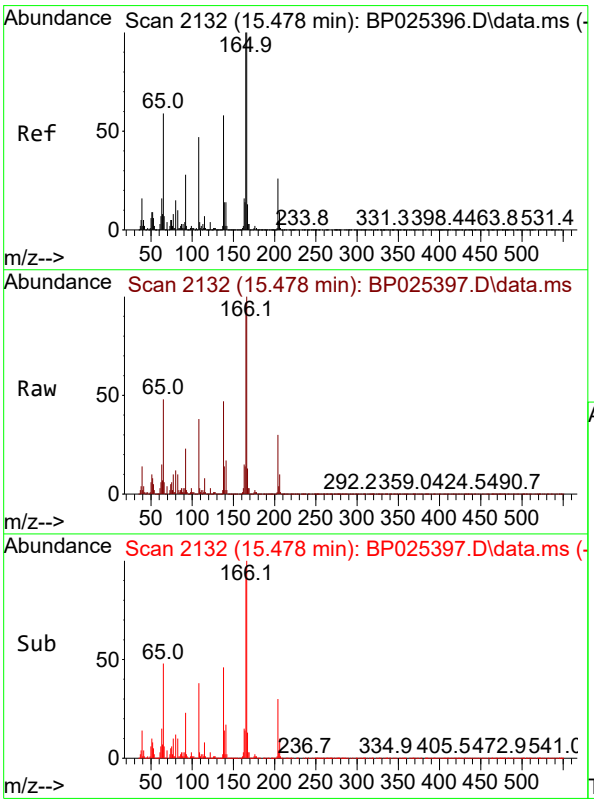
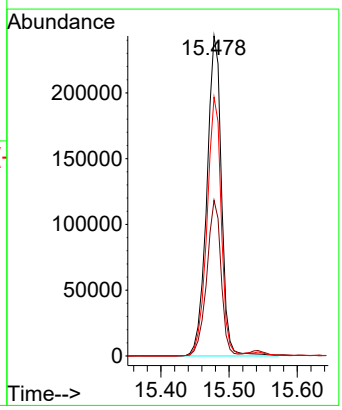
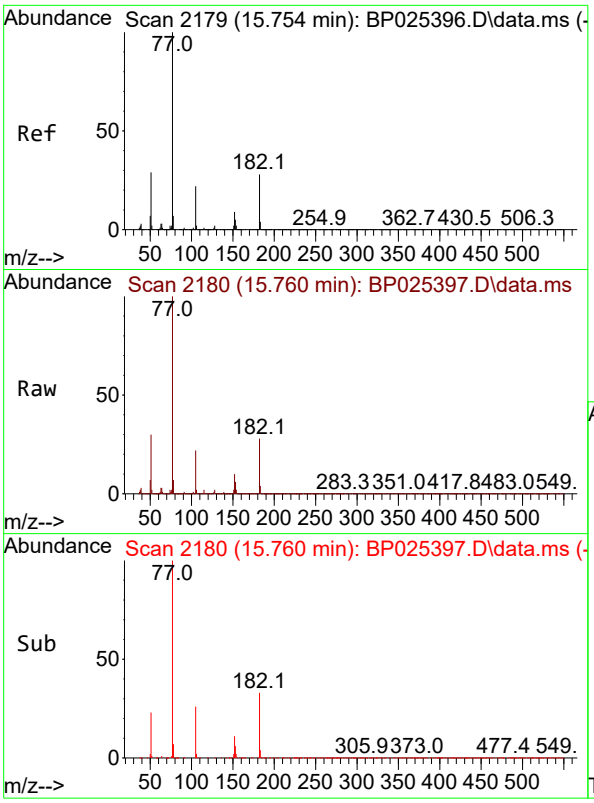


#62
4-Nitroaniline
Concen: 54.278 ng
RT: 15.478 min Scan# 2132
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:138 Resp: 364030

Ion	Ratio	Lower	Upper
138	100		
92	48.6	29.1	69.1
108	80.9	61.5	101.5

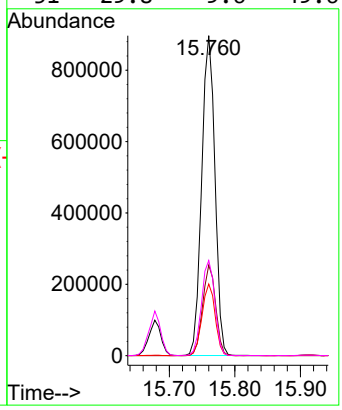




#63
Azobenzene
Concen: 52.602 ng
RT: 15.760 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion: 77 Resp: 126257

Ion	Ratio	Lower	Upper
77	100		
182	28.3	7.5	47.5
105	22.4	2.1	42.1
51	29.8	9.6	49.6



Instrument :
BNA_P
ClientSampleId :
SSTDICC050

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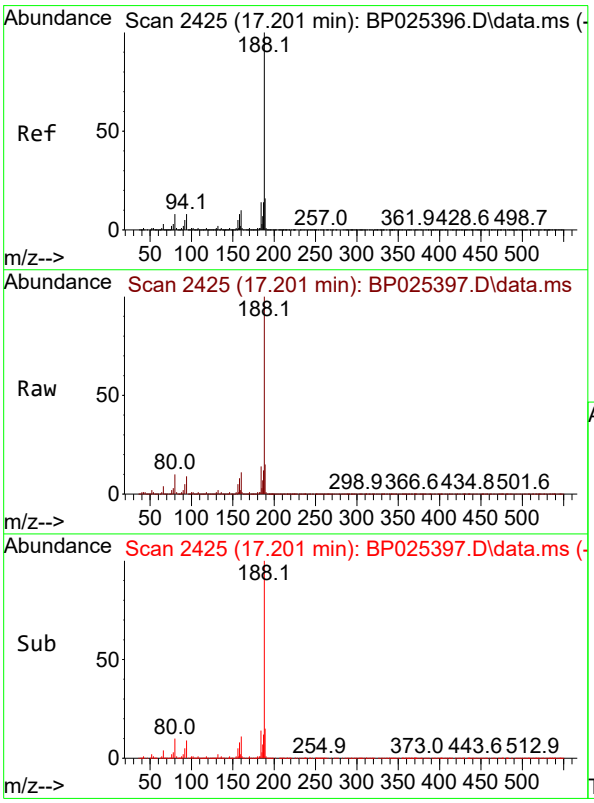
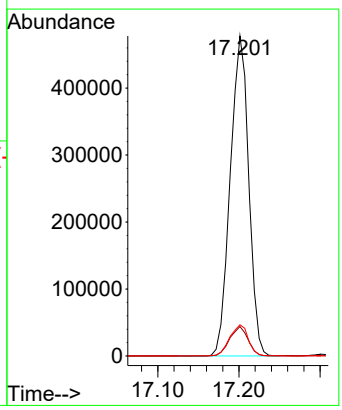
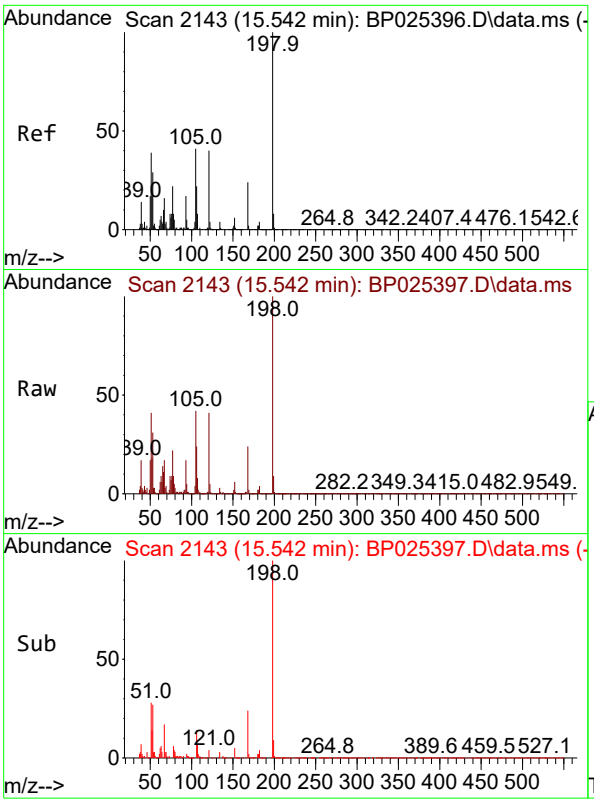


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.201 min Scan# 2425
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:188 Resp: 753705

Ion	Ratio	Lower	Upper
188	100		
94	9.2	6.6	10.0
80	9.8	6.7	10.1





#65
4,6-Dinitro-2-methylphenol
Concen: 55.792 ng
RT: 15.542 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:198 Resp: 26212

Ion	Ratio	Lower	Upper
198	100		
51	41.2	19.6	59.6
105	42.0	20.9	60.9

Instrument :
BNA_P
ClientSampleId :
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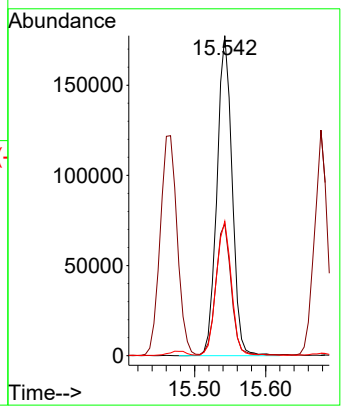
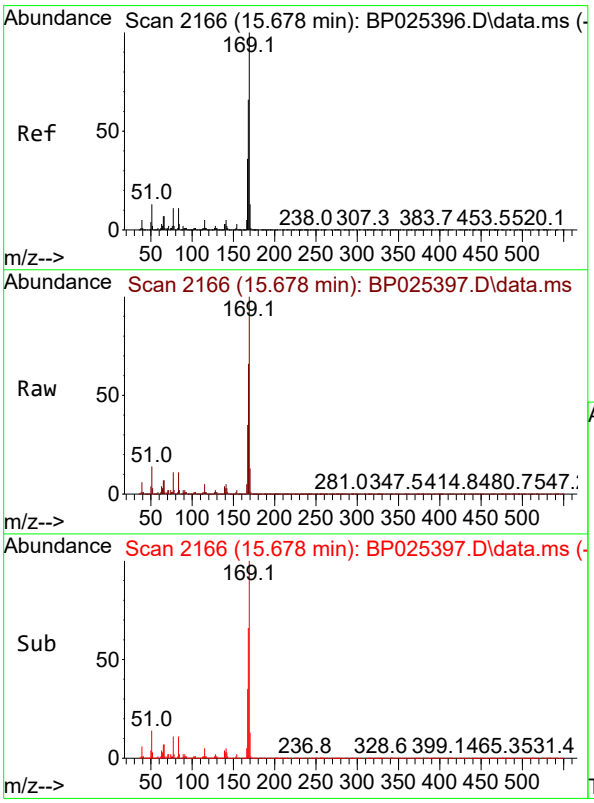
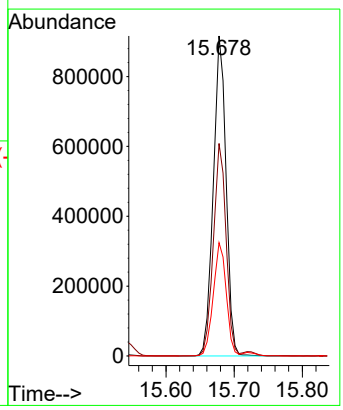


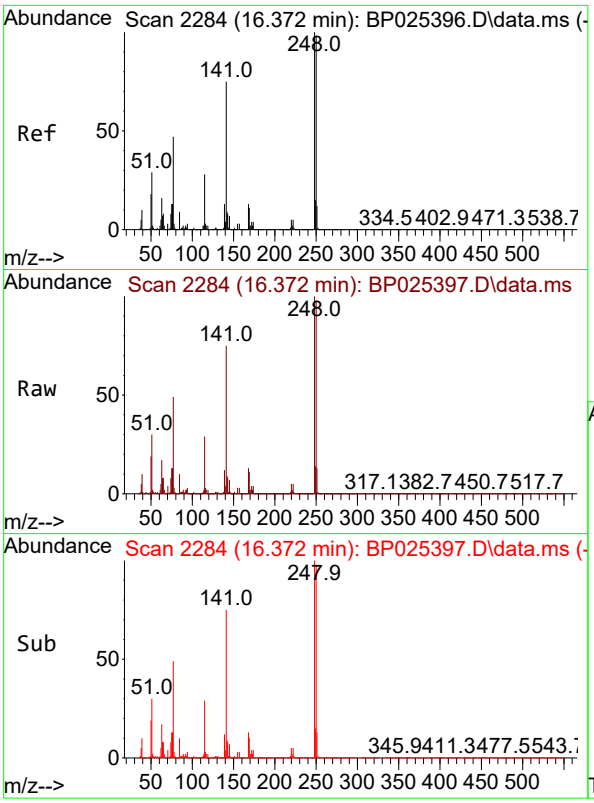


#66
n-Nitrosodiphenylamine
Concen: 51.997 ng
RT: 15.678 min Scan# 2166
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:169 Resp: 1195077

Ion	Ratio	Lower	Upper
169	100		
168	66.4	53.2	79.8
167	35.4	28.7	43.1

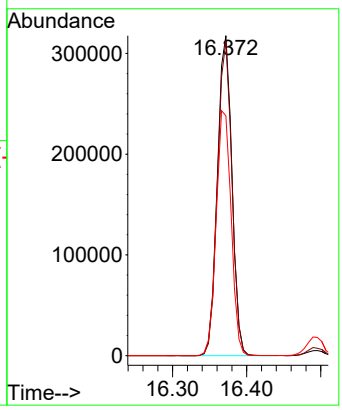




#67
4-Bromophenyl-phenylether
Concen: 52.325 ng
RT: 16.372 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:248 Resp: 43374

Ion	Ratio	Lower	Upper
248	100		
250	98.3	78.2	117.2
141	75.0	59.6	89.4



Instrument :
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ClientSampleId :
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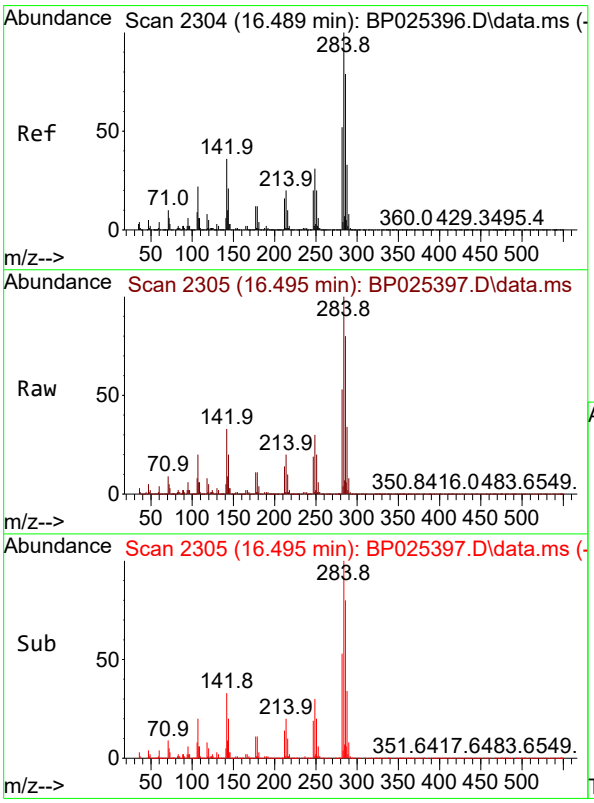
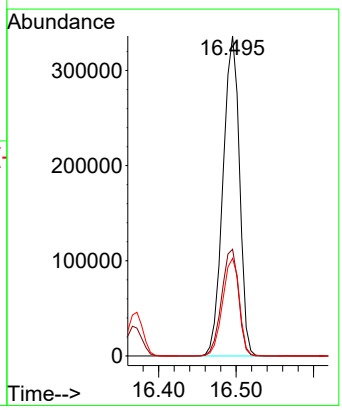
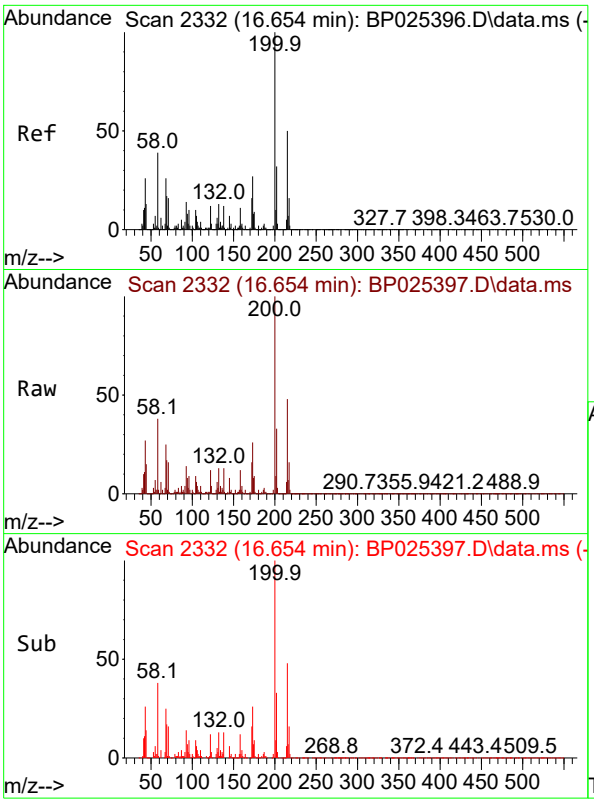


#68
Hexachlorobenzene
Concen: 51.816 ng
RT: 16.495 min Scan# 2305
Delta R.T. 0.006 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:284 Resp: 497906

Ion	Ratio	Lower	Upper
284	100		
142	33.3	29.1	43.7
249	30.5	25.0	37.4

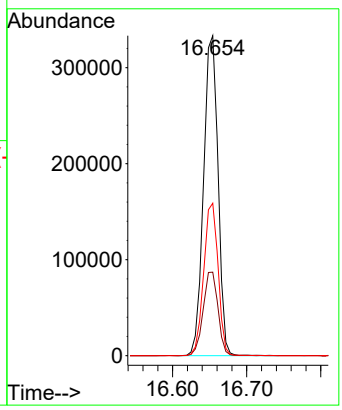




#69
Atrazine
Concen: 52.479 ng
RT: 16.654 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:200 Resp: 45170

Ion	Ratio	Lower	Upper
200	100		
173	26.1	6.7	46.7
215	47.7	29.7	69.7



Instrument :
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ClientSampleId :
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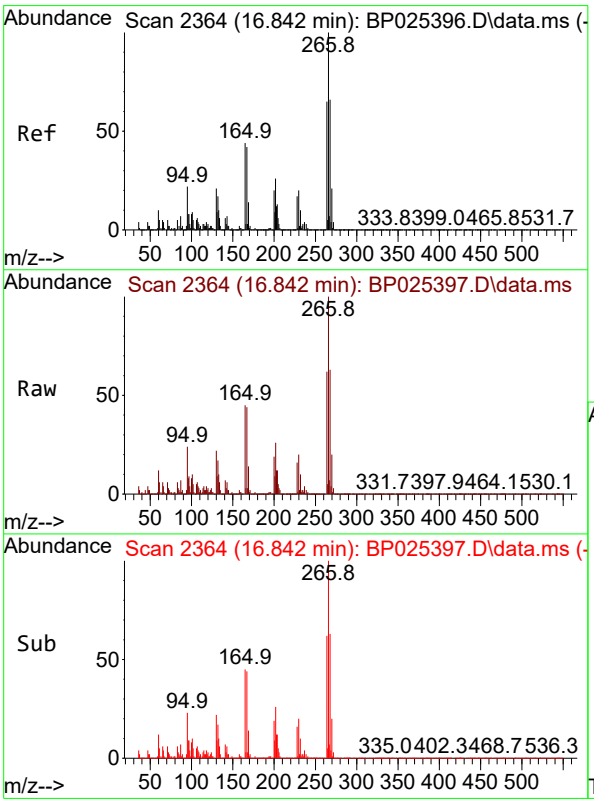
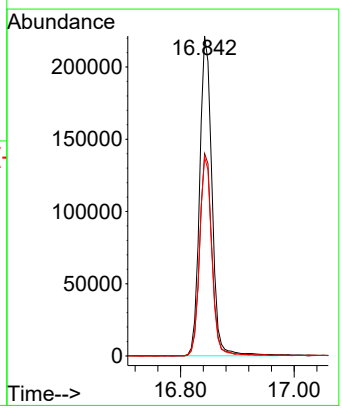
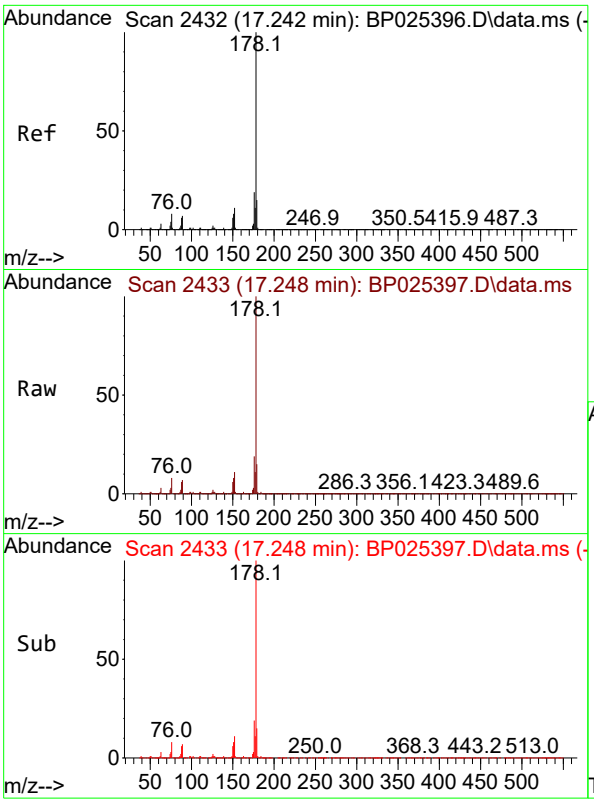


#70
Pentachlorophenol
Concen: 54.872 ng
RT: 16.842 min Scan# 2364
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:266 Resp: 332839

Ion	Ratio	Lower	Upper
266	100		
268	63.2	52.6	79.0
264	62.1	52.0	78.0

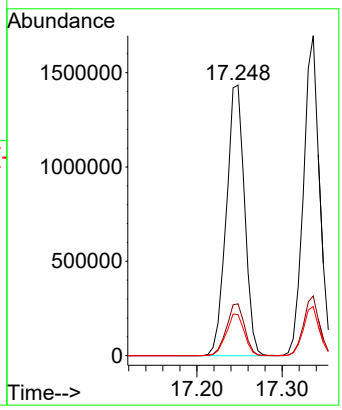




#71
Phenanthrene
Concen: 51.673 ng
RT: 17.248 min Scan# 24
Delta R.T. 0.006 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:178 Resp: 213943

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.5	23.3
179	15.2	12.2	18.4



Instrument :
BNA_P
ClientSampleId :
SSTDICC050

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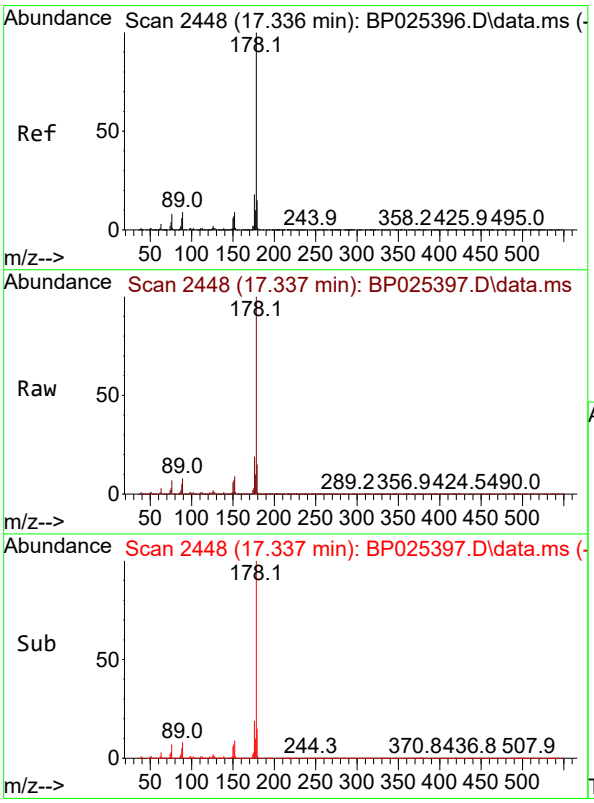
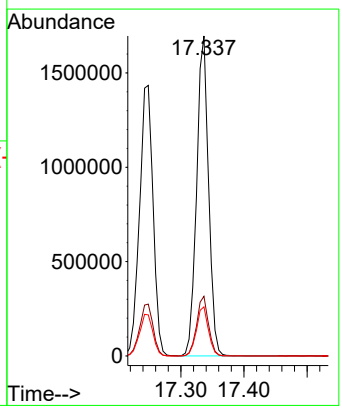
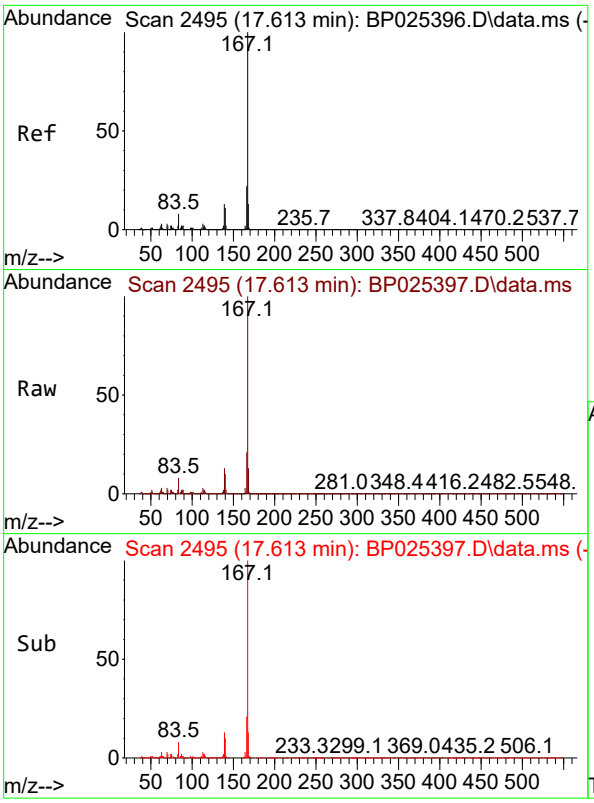


#72
Anthracene
Concen: 52.385 ng
RT: 17.337 min Scan# 2448
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:178 Resp: 2214911

Ion	Ratio	Lower	Upper
178	100		
176	18.6	14.7	22.1
179	15.4	12.2	18.2

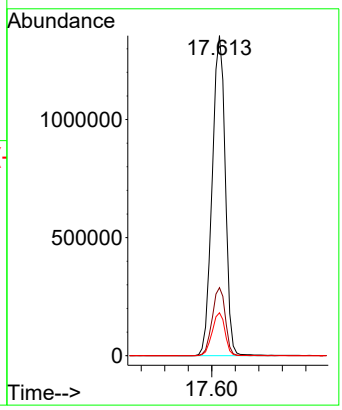




#73
Carbazole
Concen: 52.559 ng
RT: 17.613 min Scan# 24
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:167 Resp: 209317

Ion	Ratio	Lower	Upper
167	100		
166	21.2	17.5	26.3
139	13.4	10.6	16.0



Instrument :
BNA_P
ClientSampleId :
SSTDICC050

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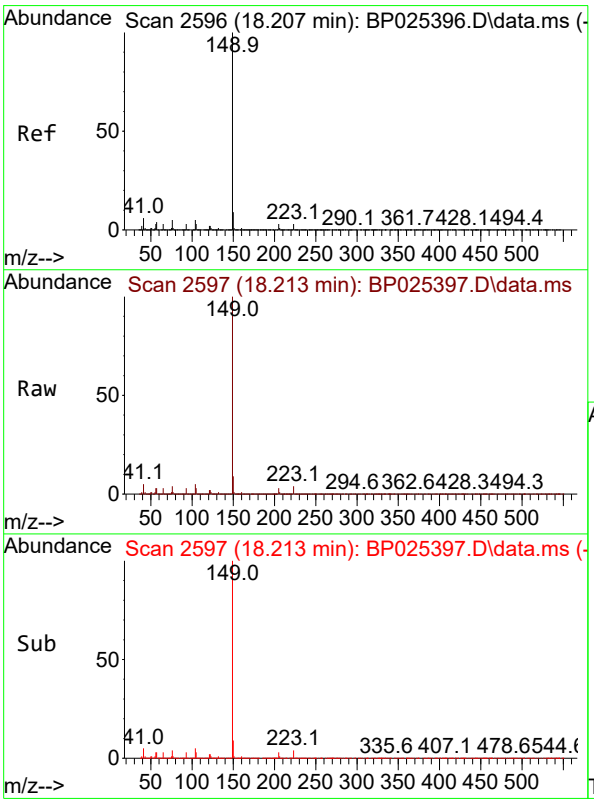
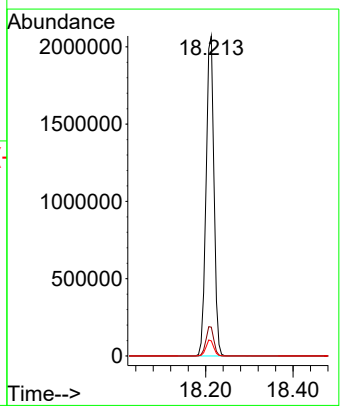
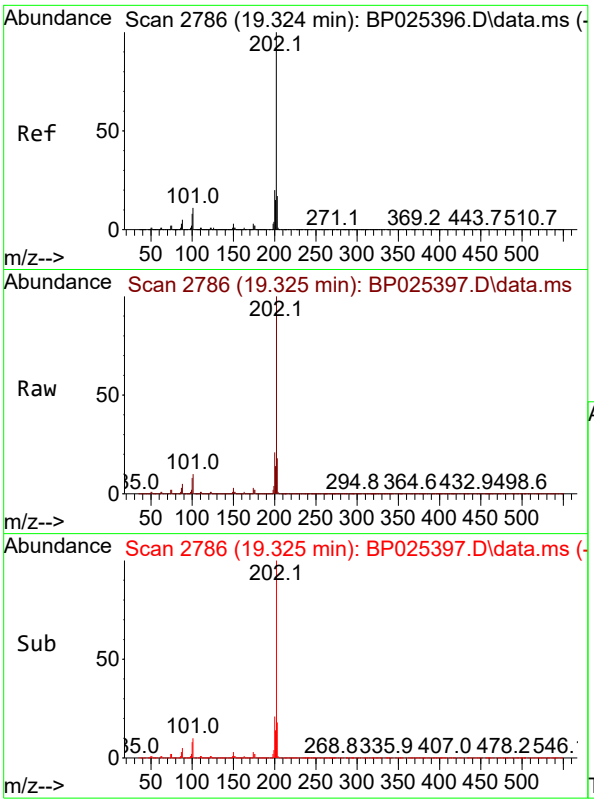


#74
Di-n-butylphthalate
Concen: 52.849 ng
RT: 18.213 min Scan# 2597
Delta R.T. 0.006 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:149 Resp: 2589522

Ion	Ratio	Lower	Upper
149	100		
150	9.0	7.4	11.0
104	4.7	4.2	6.2

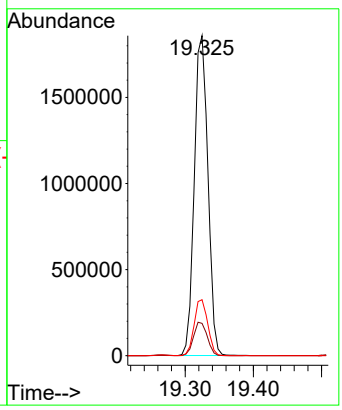




#75
Fluoranthene
Concen: 51.910 ng
RT: 19.325 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:202 Resp: 256370

Ion	Ratio	Lower	Upper
202	100		
101	10.1	0.0	31.1
203	17.5	0.0	37.3



Instrument :
BNA_P
ClientSampleId :
SSTDICC050

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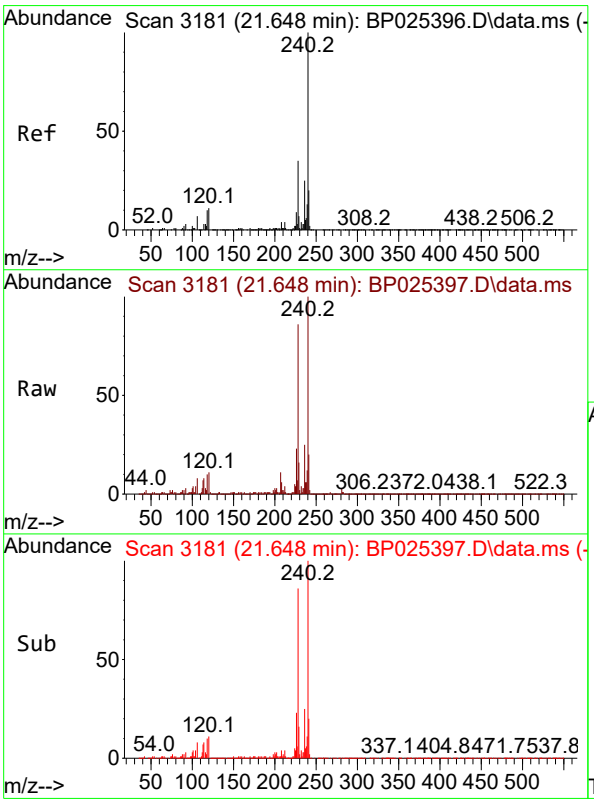
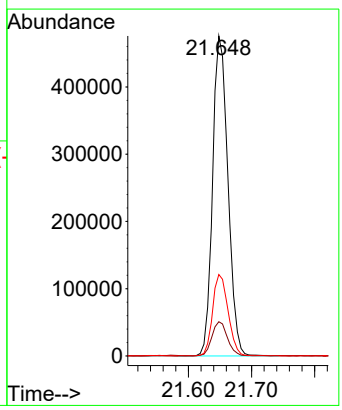
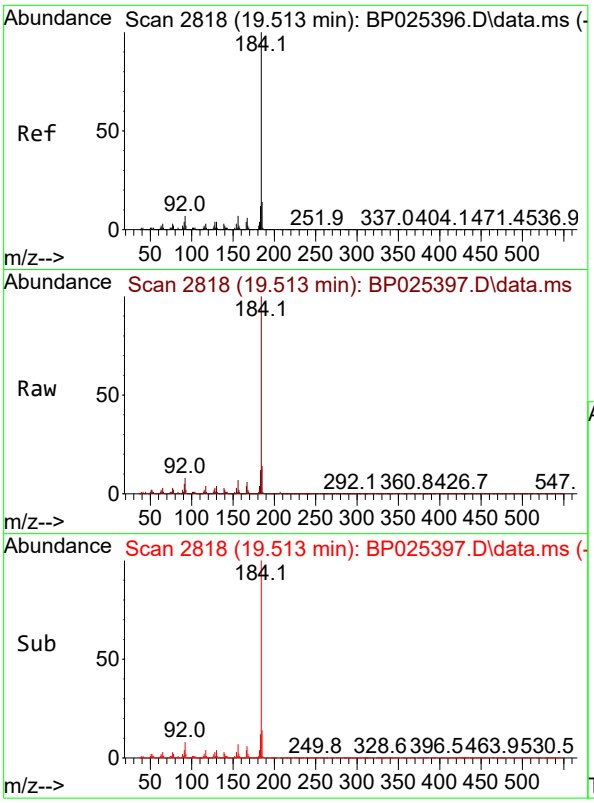


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.648 min Scan# 3181
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:240 Resp: 801742

Ion	Ratio	Lower	Upper
240	100		
120	10.7	8.9	13.3
236	25.5	19.8	29.8

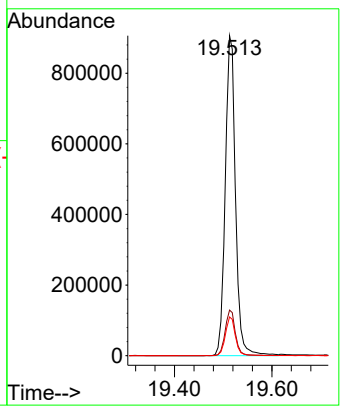




#77
Benzidine
Concen: 48.615 ng
RT: 19.513 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:184 Resp: 133019

Ion	Ratio	Lower	Upper
184	100		
185	14.2	11.5	17.3
183	12.1	9.4	14.2



Instrument :
BNA_P
ClientSampleId :
SSTDICC050

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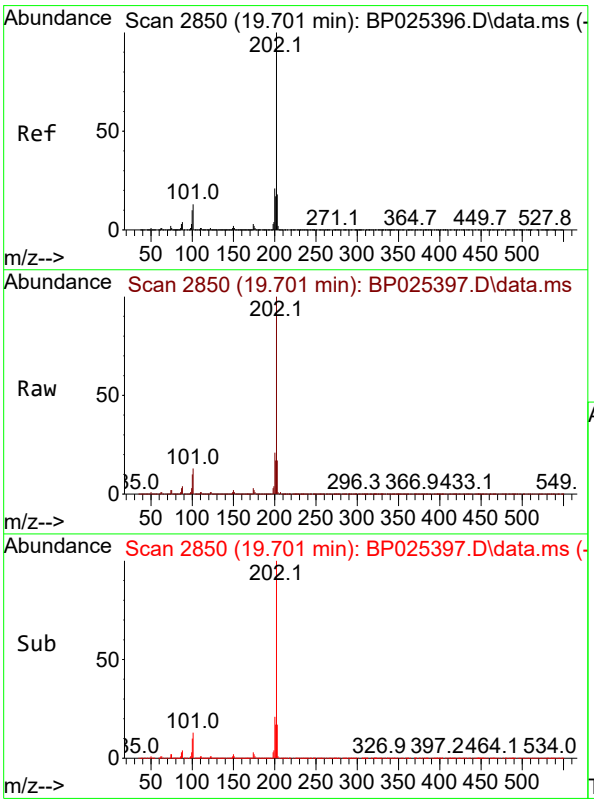
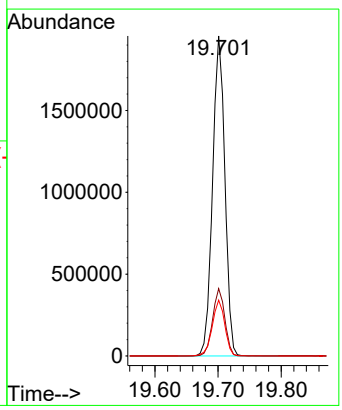
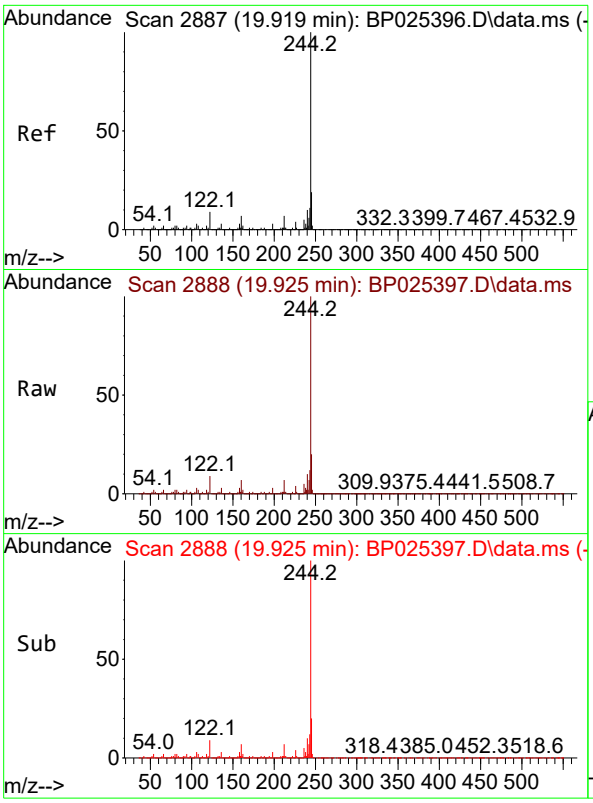


#78
Pyrene
Concen: 50.754 ng
RT: 19.701 min Scan# 2850
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:202 Resp: 2644850

Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.9	25.3
203	17.4	14.2	21.2

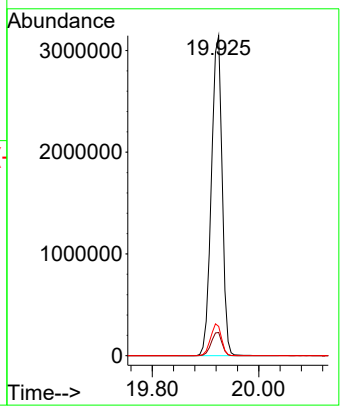




#79
Terphenyl-d14
Concen: 100.615 ng
RT: 19.925 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:244 Resp: 440909

Ion	Ratio	Lower	Upper
244	100		
212	7.2	5.8	8.6
122	9.2	7.4	11.2



Instrument :
BNA_P
ClientSampleId :
SSTDICC050

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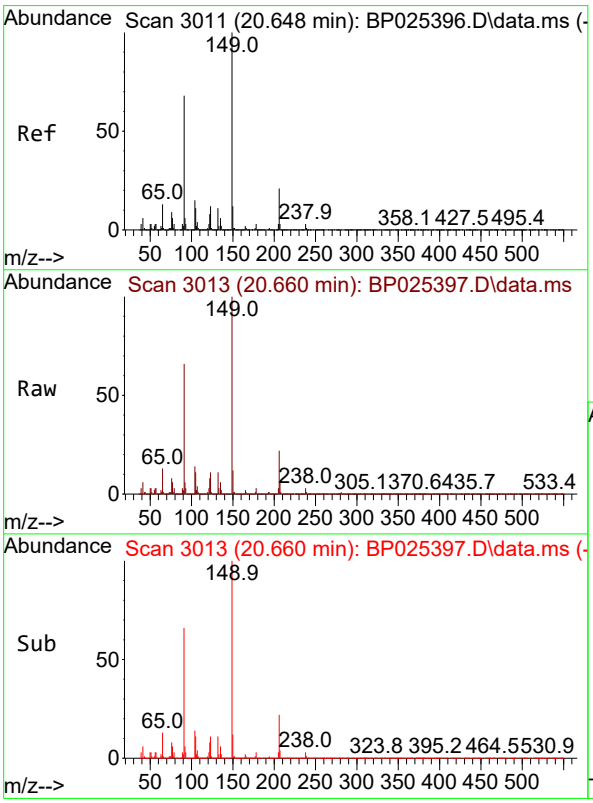
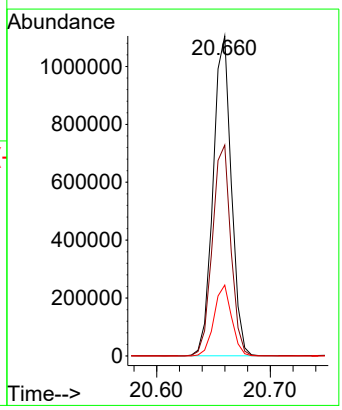
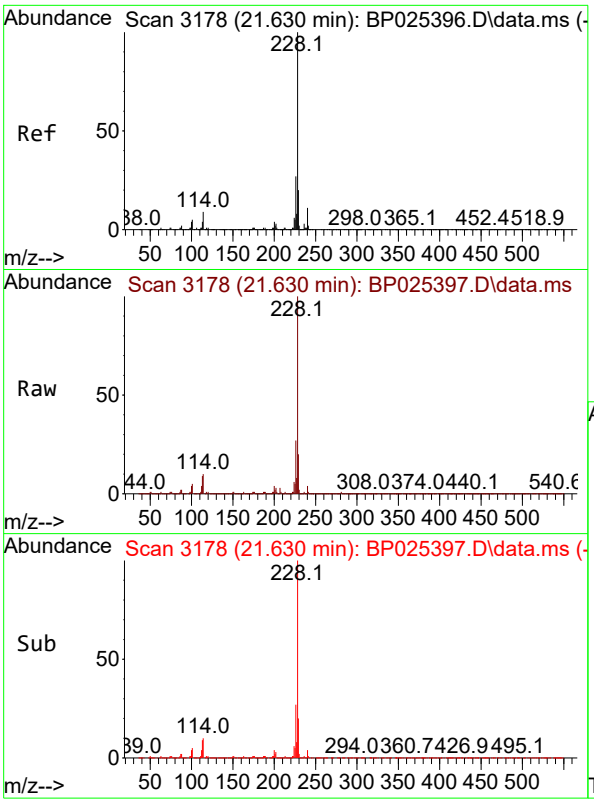


#80
Butylbenzylphthalate
Concen: 52.139 ng
RT: 20.660 min Scan# 3013
Delta R.T. 0.012 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:149 Resp: 1231376

Ion	Ratio	Lower	Upper
149	100		
91	65.9	54.2	81.2
206	22.2	16.6	24.8

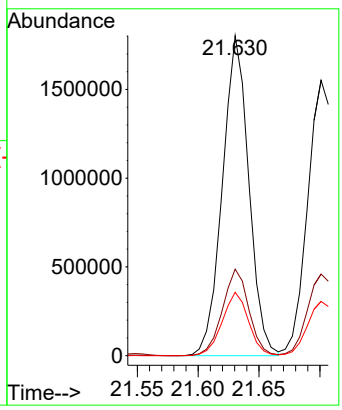




#81
Benzo(a)anthracene
Concen: 51.499 ng
RT: 21.630 min Scan# 3
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:228 Resp: 272300

Ion	Ratio	Lower	Upper
228	100		
226	27.0	21.7	32.5
229	19.8	15.6	23.4



Instrument :
BNA_P
ClientSampleId :
SSTDICC050

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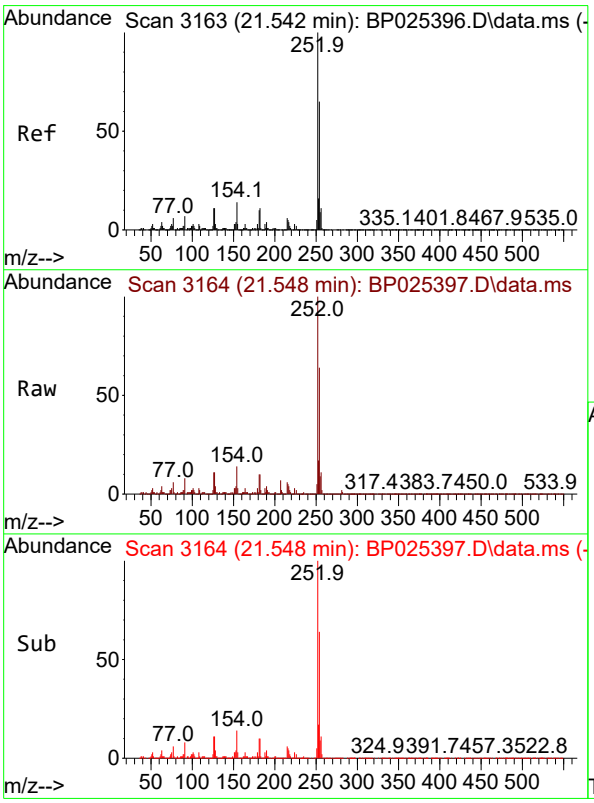
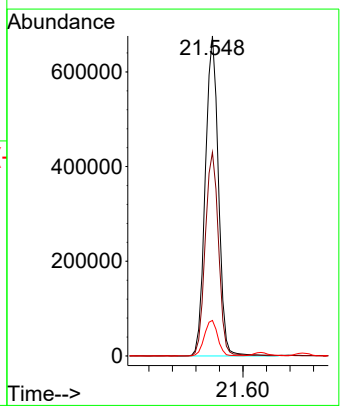
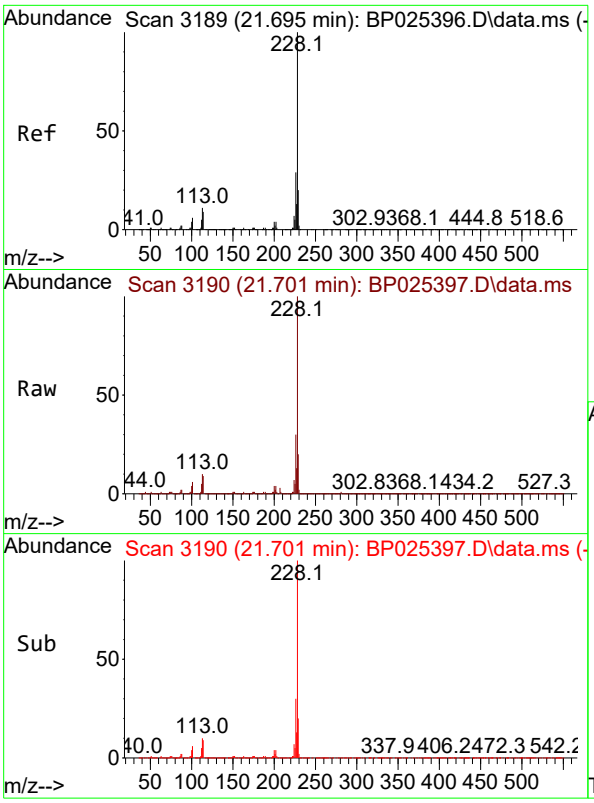


#82
3,3'-Dichlorobenzidine
Concen: 52.357 ng
RT: 21.548 min Scan# 3164
Delta R.T. 0.006 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:252 Resp: 1043476

Ion	Ratio	Lower	Upper
252	100		
254	63.7	51.8	77.6
126	11.1	9.1	13.7

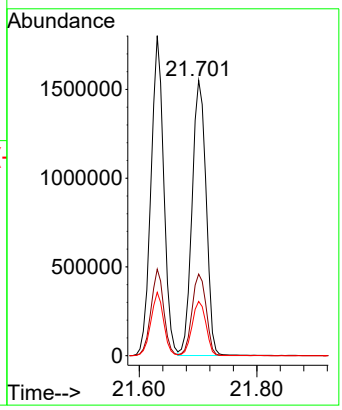




#83
Chrysene
Concen: 51.817 ng
RT: 21.701 min Scan# 3
Delta R.T. 0.006 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:228 Resp: 256585

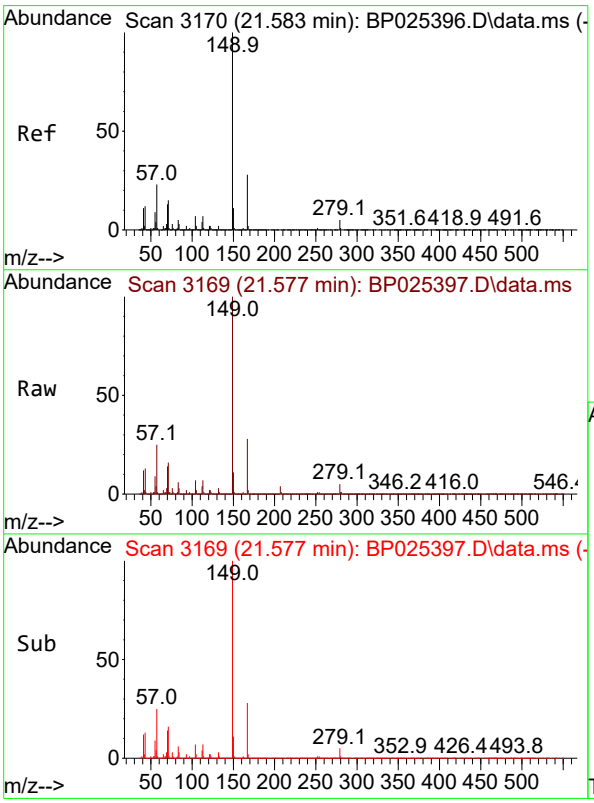
Ion	Ratio	Lower	Upper
228	100		
226	29.6	23.2	34.8
229	19.7	15.6	23.4



Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

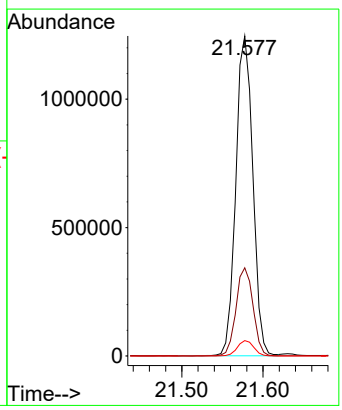
Reviewed By :Rahul Chavli 08/15/2025
Supervised By :Jagrut Upadhyay 08/15/2025

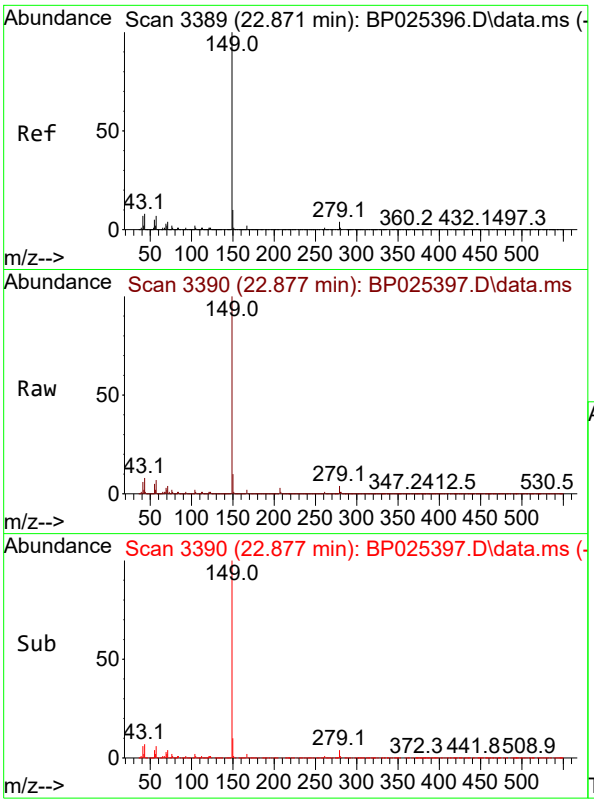


#84
Bis(2-ethylhexyl)phthalate
Concen: 51.933 ng
RT: 21.577 min Scan# 3169
Delta R.T. -0.006 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:149 Resp: 1805478

Ion	Ratio	Lower	Upper
149	100		
167	27.6	22.1	33.1
279	4.8	3.8	5.6

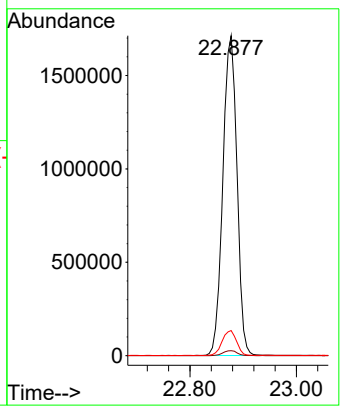




#85
Di-n-octyl phthalate
Concen: 52.690 ng
RT: 22.877 min Scan# 3
Delta R.T. 0.006 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:149 Resp: 315082

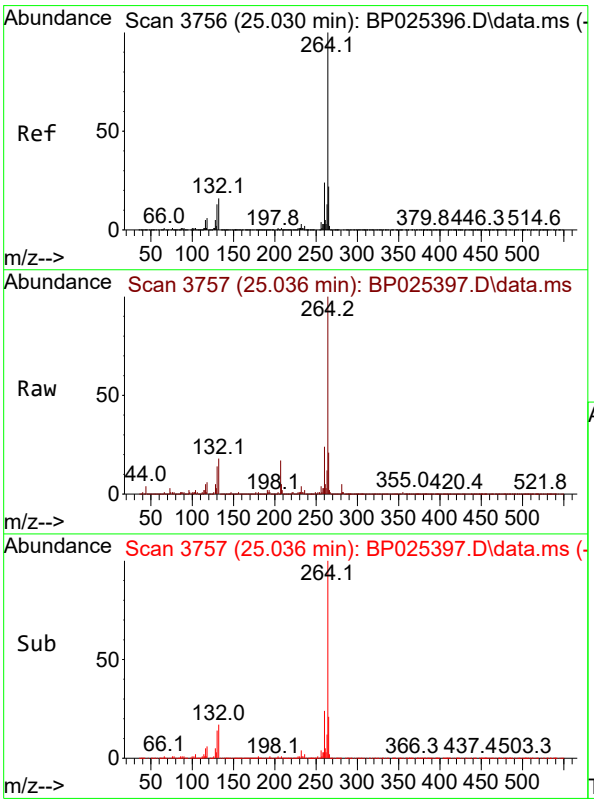
Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	7.9	6.3	9.5



Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

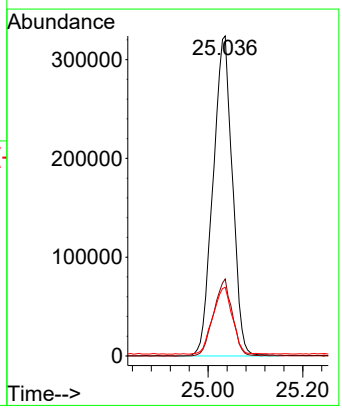
Reviewed By :Rahul Chavli 08/15/2025
Supervised By :Jagrut Upadhyay 08/15/2025

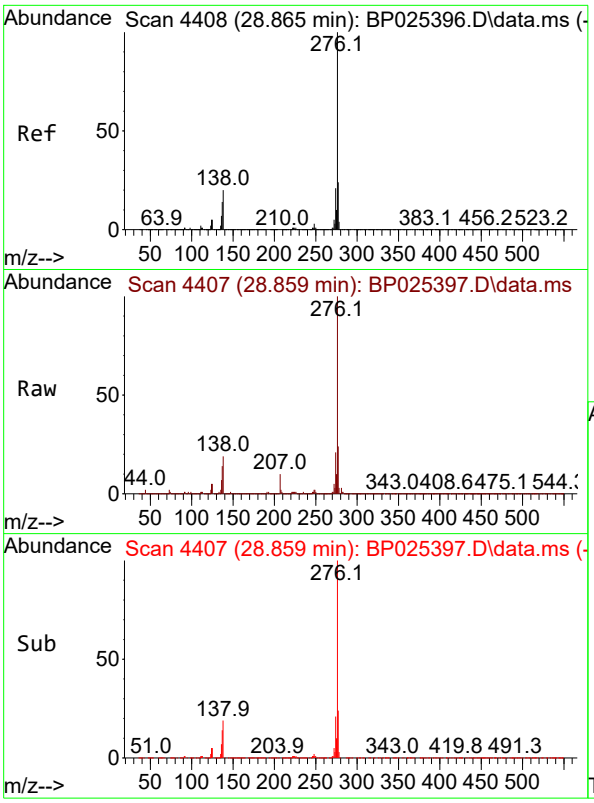


#86
Perylene-d12
Concen: 20.000 ng
RT: 25.036 min Scan# 3757
Delta R.T. 0.006 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:264 Resp: 918939

Ion	Ratio	Lower	Upper
264	100		
260	24.1	19.3	28.9
265	21.5	17.4	26.0

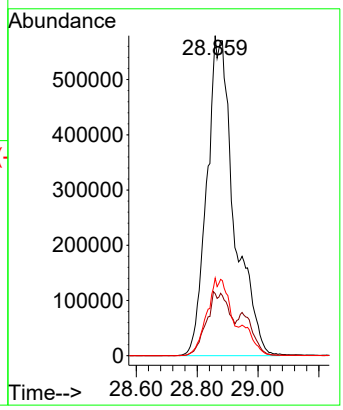




#87
Indeno(1,2,3-cd)pyrene
Concen: 53.463 ng m
RT: 28.859 min Scan# 4
Delta R.T. -0.006 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:276 Resp: 360417

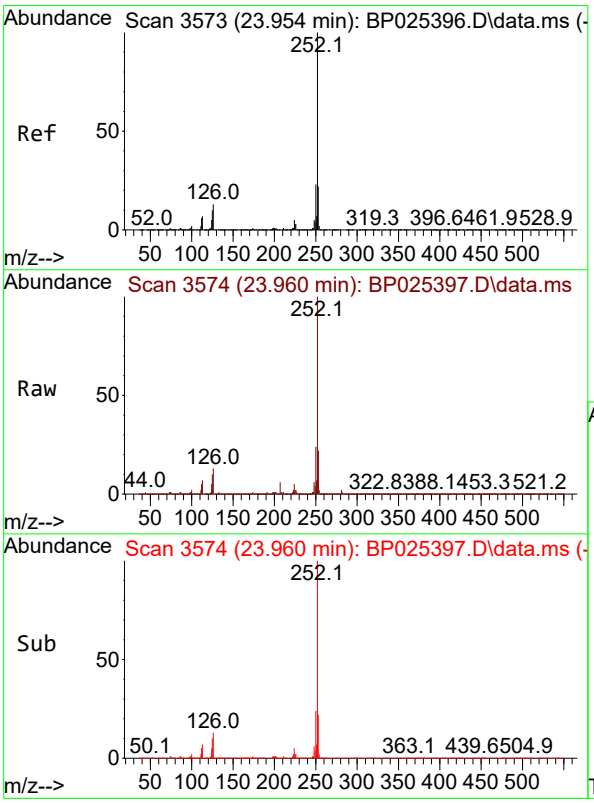
Ion	Ratio	Lower	Upper
276	100		
138	8.3	12.9	19.3#
277	9.7	17.0	25.6#



Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

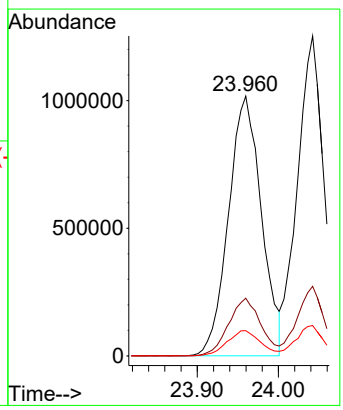
Reviewed By :Rahul Chavli 08/15/2025
Supervised By :Jagrut Upadhyay 08/15/2025

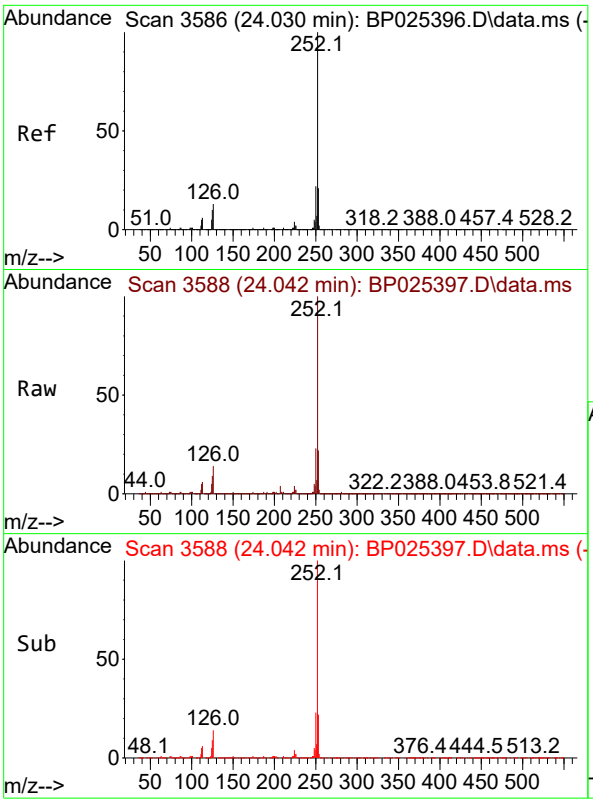


#88
Benzo(b)fluoranthene
Concen: 52.982 ng
RT: 23.960 min Scan# 3574
Delta R.T. 0.006 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:252 Resp: 2870971

Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.7	26.5
125	9.8	7.9	11.9





#89
Benzo(k)fluoranthene
Concen: 51.956 ng
RT: 24.042 min Scan# 3
Delta R.T. 0.012 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

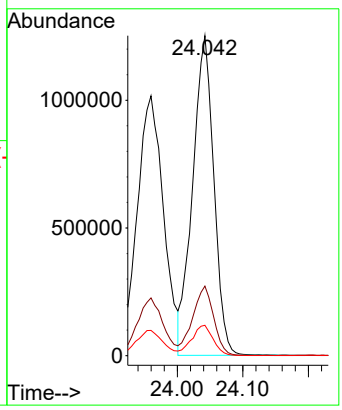
Tgt Ion:252 Resp: 281727

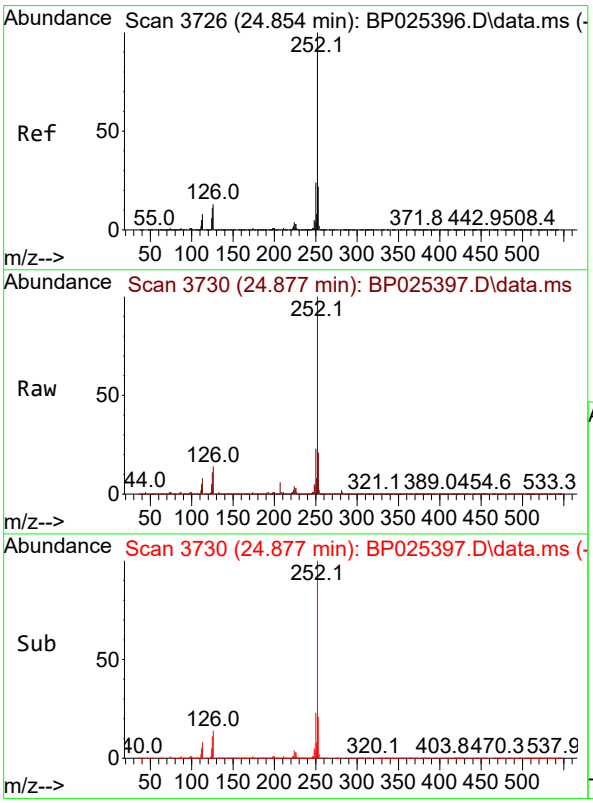
Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.1	25.7
125	9.5	7.8	11.6

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 08/15/2025
Supervised By :Jagrut Upadhyay 08/15/2025

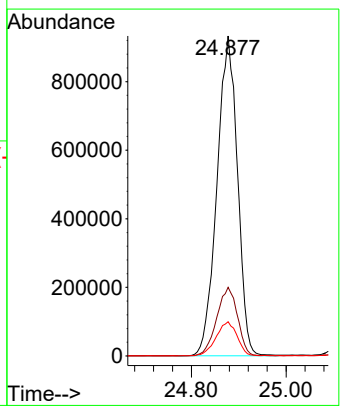


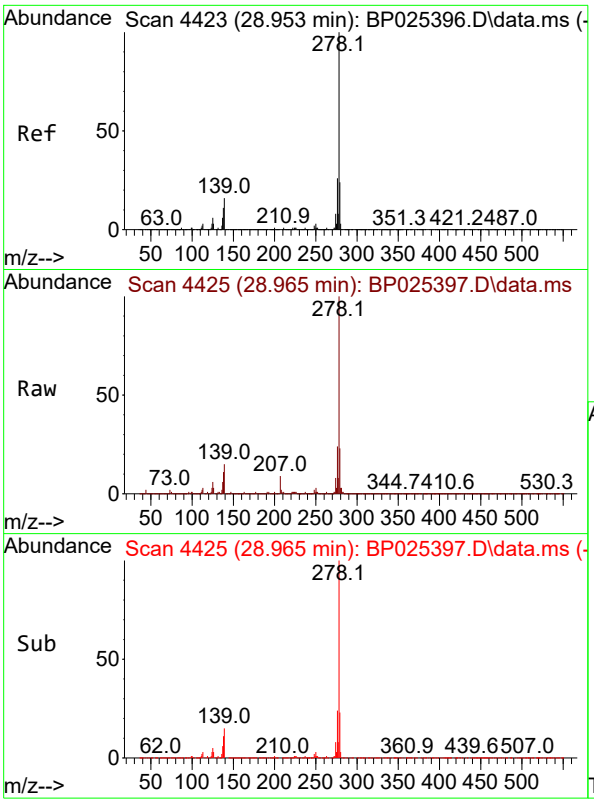


#90
Benzo(a)pyrene
Concen: 53.100 ng
RT: 24.877 min Scan# 3730
Delta R.T. 0.024 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:252 Resp: 2800880

Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.5	26.3
125	10.7	8.7	13.1

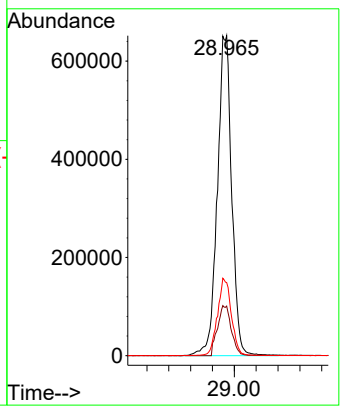




#91
Dibenzo(a,h)anthracene
Concen: 53.795 ng
RT: 28.965 min Scan# 4
Delta R.T. 0.012 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:278 Resp: 296262

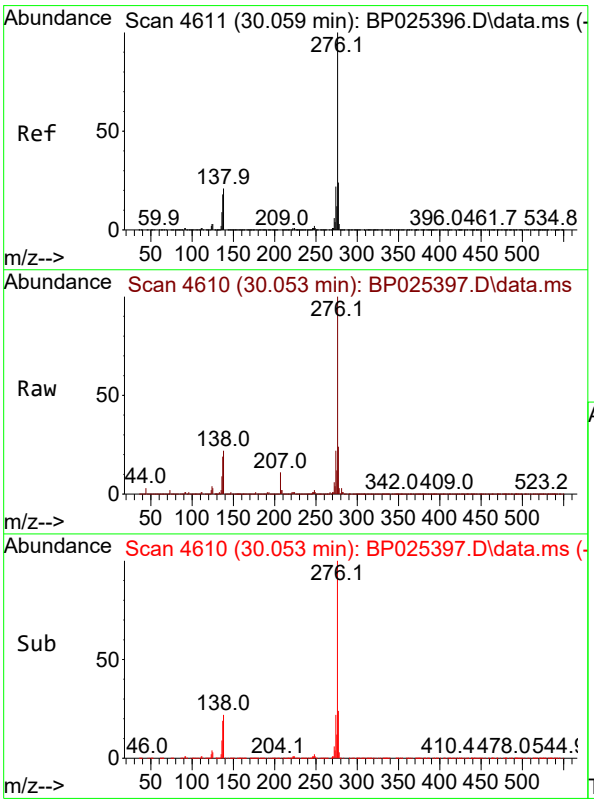
Ion	Ratio	Lower	Upper
278	100		
139	15.5	13.0	19.4
279	22.9	19.4	29.2



Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

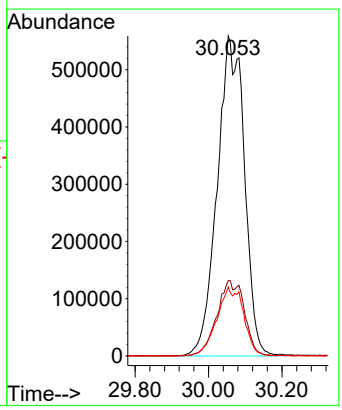
Reviewed By :Rahul Chavli 08/15/2025
Supervised By :Jagrut Upadhyay 08/15/2025



#92
Benzo(g,h,i)perylene
Concen: 52.960 ng m
RT: 30.053 min Scan# 4610
Delta R.T. -0.006 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:276 Resp: 2866689

Ion	Ratio	Lower	Upper
276	100		
277	23.5	19.4	29.0
138	21.6	16.7	25.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081425\
Data File : BP025398.D
Acq On : 14 Aug 2025 16:42
Operator : CG/JU
Sample : SSTDICC060
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Quant Time: Aug 14 17:58:29 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 17:44:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.790	152	162248	20.000	ng		0.00
21) Naphthalene-d8	10.566	136	693237	20.000	ng		0.00
39) Acenaphthene-d10	14.413	164	460439	20.000	ng		0.00
64) Phenanthrene-d10	17.213	188	923402	20.000	ng		0.01
76) Chrysene-d12	21.666	240	926019	20.000	ng		0.02
86) Perylene-d12	25.042	264	1081163	20.000	ng		0.01
System Monitoring Compounds							
5) 2-Fluorophenol	5.408	112	1193329	122.144	ng		0.00
7) Phenol-d6	6.972	99	1566626	125.072	ng		0.00
23) Nitrobenzene-d5	8.931	82	1698557	123.944	ng		0.00
42) 2,4,6-Tribromophenol	15.925	330	760738	122.748	ng		0.01
45) 2-Fluorobiphenyl	13.025	172	3963871	117.656	ng		0.00
79) Terphenyl-d14	19.930	244	5896004	116.490	ng		0.01
Target Compounds							Qvalue
2) 1,4-Dioxane	3.337	88	225015	58.799	ng		99
3) Pyridine	3.731	79	623639	59.539	ng		97
4) n-Nitrosodimethylamine	3.637	42	269971	62.518	ng		100
6) Aniline	7.125	93	1053232	62.408	ng		99
8) 2-Chlorophenol	7.366	128	688094	62.413	ng		100
9) Benzaldehyde	6.943	77	489205	55.745	ng		97
10) Phenol	7.002	94	821863	62.530	ng		98
11) bis(2-Chloroethyl)ether	7.219	93	634374	61.925	ng		99
12) 1,3-Dichlorobenzene	7.684	146	744884	61.273	ng		99
13) 1,4-Dichlorobenzene	7.825	146	751354	60.469	ng		100
14) 1,2-Dichlorobenzene	8.143	146	723663	60.165	ng		99
15) Benzyl Alcohol	8.025	79	627198	63.019	ng		98
16) 2,2'-oxybis(1-Chloropr...	8.313	45	846896	61.712	ng		99
17) 2-Methylphenol	8.225	107	579471	63.480	ng		99
18) Hexachloroethane	8.866	117	281129	61.535	ng		95
19) n-Nitroso-di-n-propyla...	8.590	70	507223	61.060	ng		98
20) 3+4-Methylphenols	8.555	107	798107	63.075	ng		96
22) Acetophenone	8.602	105	1051848	60.503	ng	#	99
24) Nitrobenzene	8.978	77	752762	61.461	ng		98
25) Isophorone	9.502	82	1475193	60.825	ng		99
26) 2-Nitrophenol	9.678	139	405821	64.564	ng		98
27) 2,4-Dimethylphenol	9.743	122	675186	62.463	ng		100
28) bis(2-Chloroethoxy)met...	9.972	93	894872	61.040	ng		99
29) 2,4-Dichlorophenol	10.213	162	673952	62.764	ng		99
30) 1,2,4-Trichlorobenzene	10.425	180	715954	60.823	ng		98
31) Naphthalene	10.613	128	2187912	60.722	ng		100
32) Benzoic acid	9.907	122	530609	66.651	ng		98
33) 4-Chloroaniline	10.713	127	993155	62.401	ng		99
34) Hexachlorobutadiene	10.901	225	442929	60.421	ng		100
35) Caprolactam	11.513	113	241521	61.340	ng		95
36) 4-Chloro-3-methylphenol	11.843	107	764338	62.033	ng		98
37) 2-Methylnaphthalene	12.219	142	1418882	60.511	ng		99
38) 1-Methylnaphthalene	12.437	142	1494304	59.925	ng		100
40) 1,2,4,5-Tetrachloroben...	12.590	216	802737	60.365	ng		100
41) Hexachlorocyclopentadiene	12.572	237	536440	66.784	ng		99
43) 2,4,6-Trichlorophenol	12.831	196	564165	62.841	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081425\
Data File : BP025398.D
Acq On : 14 Aug 2025 16:42
Operator : CG/JU
Sample : SSTDICC060
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Quant Time: Aug 14 17:58:29 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 17:44:43 2025
Response via : Initial Calibration

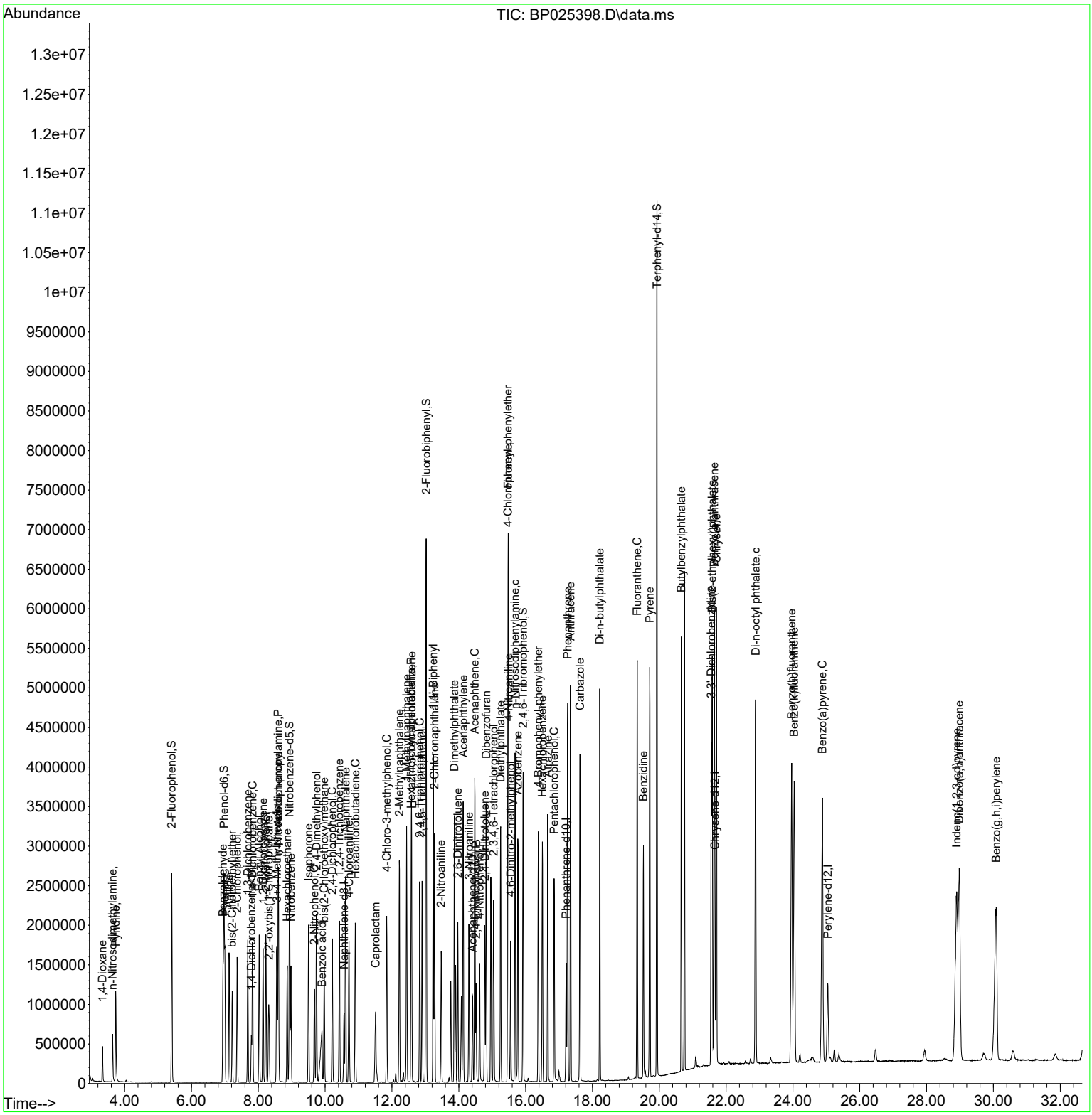
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.901	196	619246	62.937	ng	97
46) 1,1'-Biphenyl	13.237	154	1996186	59.695	ng	99
47) 2-Chloronaphthalene	13.272	162	1577577	60.600	ng	99
48) 2-Nitroaniline	13.472	65	485429	63.996	ng	100
49) Acenaphthylene	14.131	152	2634005	61.147	ng	99
50) Dimethylphthalate	13.866	163	2042324	60.572	ng	99
51) 2,6-Dinitrotoluene	13.972	165	446520	62.831	ng	100
52) Acenaphthene	14.478	154	1527191	60.399	ng	100
53) 3-Nitroaniline	14.301	138	506373	63.331	ng	96
54) 2,4-Dinitrophenol	14.519	184	265089	69.849	ng	98
55) Dibenzofuran	14.819	168	2387933	59.734	ng	100
56) 4-Nitrophenol	14.625	139	419801	63.893	ng	99
57) 2,4-Dinitrotoluene	14.778	165	650054	64.112	ng	96
58) Fluorene	15.478	166	1836972	58.236	ng	99
59) 2,3,4,6-Tetrachlorophenol	15.042	232	541317	62.307	ng	100
60) Diethylphthalate	15.254	149	2015888	58.840	ng	99
61) 4-Chlorophenyl-phenyle...	15.472	204	926280	59.044	ng	99
62) 4-Nitroaniline	15.489	138	510438	62.272	ng	99
63) Azobenzene	15.766	77	1796580	61.242	ng	99
65) 4,6-Dinitro-2-methylph...	15.554	198	385873	67.038	ng	98
66) n-Nitrosodiphenylamine	15.684	169	1674806	59.478	ng	99
67) 4-Bromophenyl-phenylether	16.378	248	616767	60.731	ng	97
68) Hexachlorobenzene	16.501	284	711778	60.461	ng	100
69) Atrazine	16.666	200	633381	60.063	ng	99
70) Pentachlorophenol	16.854	266	474276	63.820	ng	97
71) Phenanthrene	17.260	178	3006132	59.263	ng	100
72) Anthracene	17.342	178	3050794	58.895	ng	99
73) Carbazole	17.625	167	2916606	59.776	ng	99
74) Di-n-butylphthalate	18.219	149	3560427	59.310	ng	100
75) Fluoranthene	19.342	202	3563798	58.899	ng	99
77) Benzidine	19.525	184	1690432	53.489	ng	99
78) Pyrene	19.713	202	3664453	60.883	ng	100
80) Butylbenzylphthalate	20.660	149	1710246	62.697	ng	99
81) Benzo(a)anthracene	21.648	228	3702064	60.619	ng	99
82) 3,3'-Dichlorobenzidine	21.554	252	1405597	61.062	ng	100
83) Chrysene	21.707	228	3453736	60.387	ng	99
84) Bis(2-ethylhexyl)phtha...	21.583	149	2450963	61.038	ng	100
85) Di-n-octyl phthalate	22.883	149	4342211	62.869	ng	100
87) Indeno(1,2,3-cd)pyrene	28.901	276	4937235	62.248	ng	96
88) Benzo(b)fluoranthene	23.960	252	3883465	60.914	ng	99
89) Benzo(k)fluoranthene	24.036	252	3912900	61.334	ng	99
90) Benzo(a)pyrene	24.883	252	3845093	61.959	ng	99
91) Dibenzo(a,h)anthracene	28.977	278	4035414	62.280	ng	98
92) Benzo(g,h,i)perylene	30.083	276	3958545	62.159	ng	100

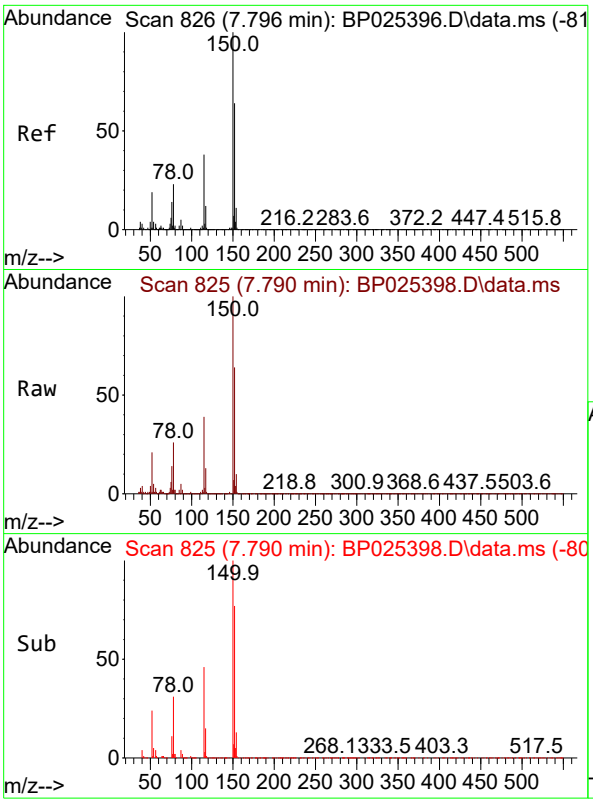
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081425\
Data File : BP025398.D
Acq On : 14 Aug 2025 16:42
Operator : CG/JU
Sample : SSTDICC060
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Quant Time: Aug 14 17:58:29 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 17:44:43 2025
Response via : Initial Calibration



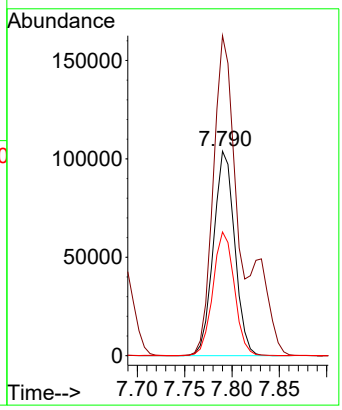


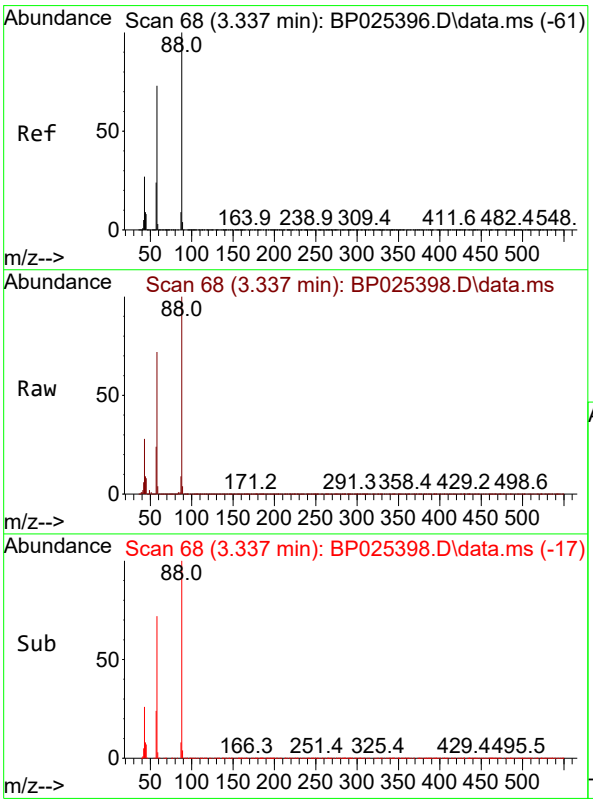
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.790 min Scan# 8
Delta R.T. -0.006 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion:152 Resp: 162248

Ion	Ratio	Lower	Upper
152	100		
150	156.4	125.9	188.9
115	60.5	48.5	72.7

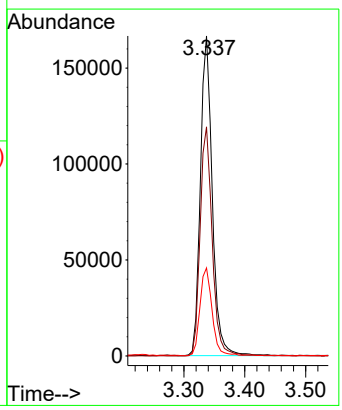


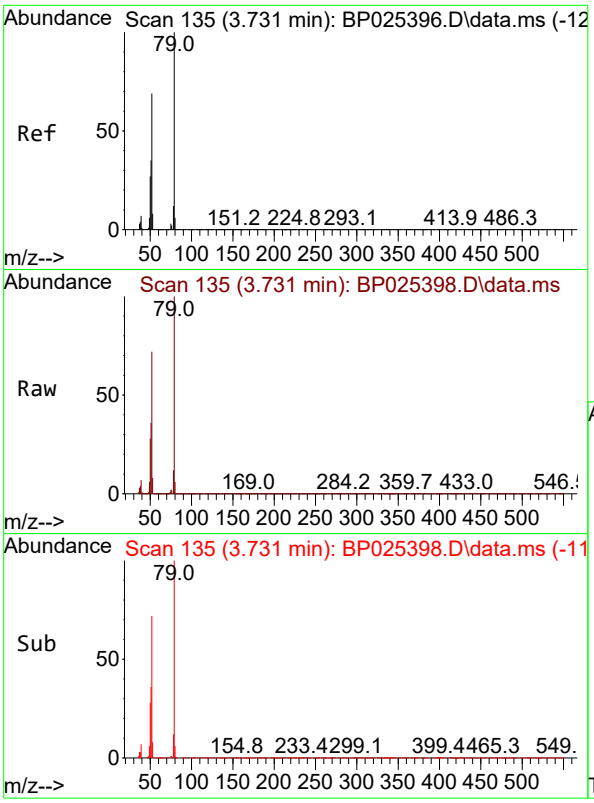


#2
1,4-Dioxane
Concen: 58.799 ng
RT: 3.337 min Scan# 68
Delta R.T. 0.000 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Tgt Ion: 88 Resp: 225015

Ion	Ratio	Lower	Upper
88	100		
58	73.0	59.2	88.8
43	27.9	21.7	32.5



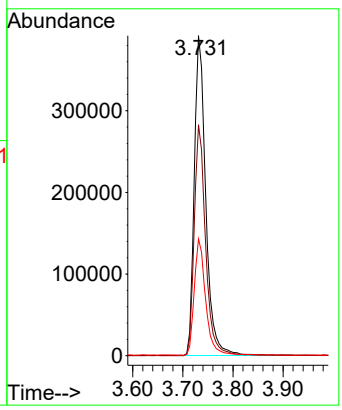


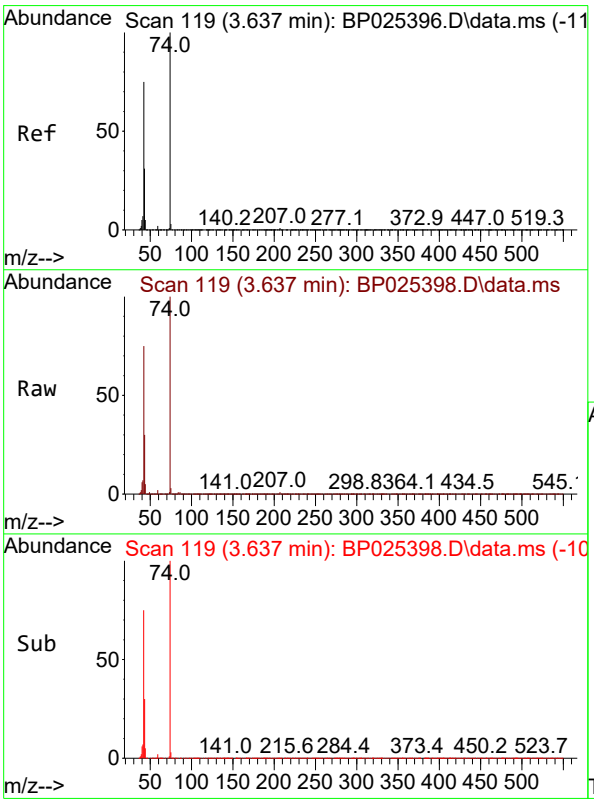
#3
Pyridine
Concen: 59.539 ng
RT: 3.731 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion: 79 Resp: 623639

Ion	Ratio	Lower	Upper
79	100		
52	72.1	55.5	83.3
51	36.5	28.3	42.5

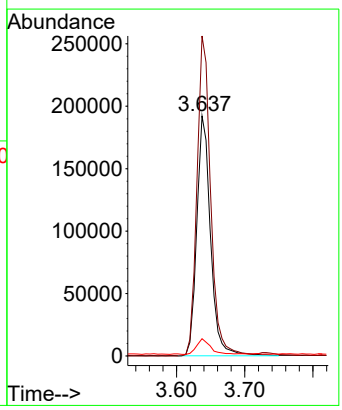


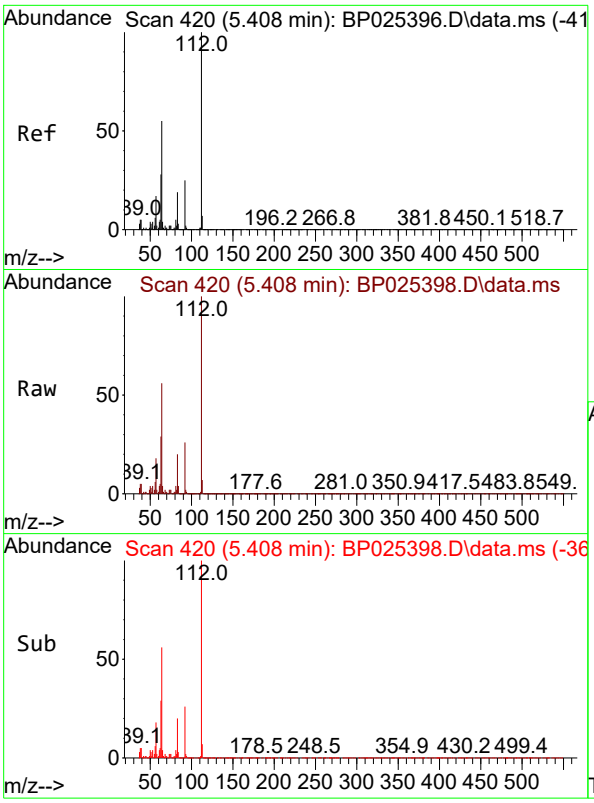


#4
n-Nitrosodimethylamine
Concen: 62.518 ng
RT: 3.637 min Scan# 119
Delta R.T. 0.000 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Tgt Ion: 42 Resp: 269971

Ion	Ratio	Lower	Upper
42	100		
74	133.4	107.0	160.4
44	7.2	6.2	9.4



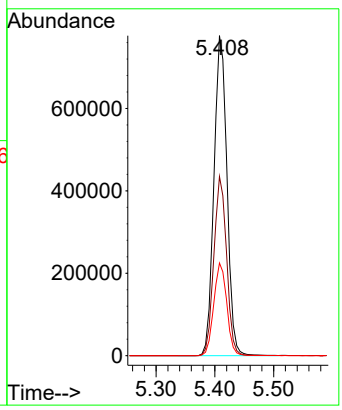


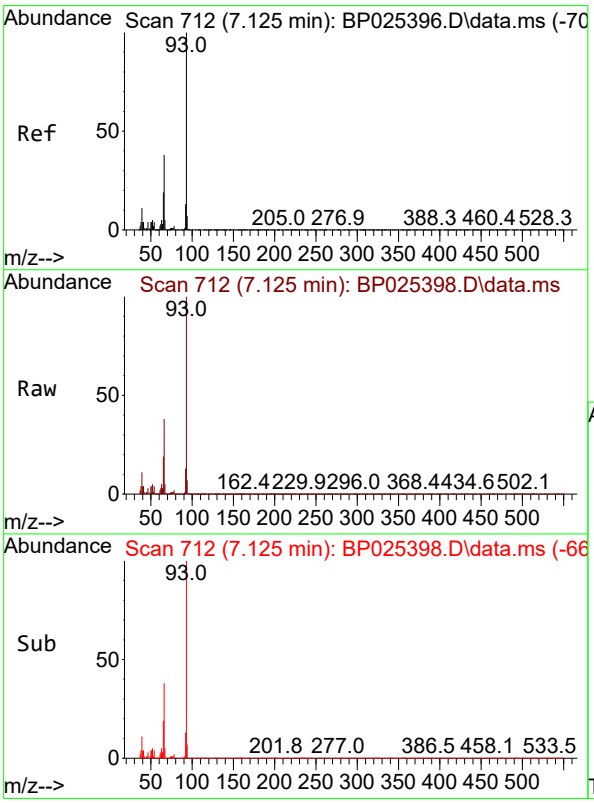
#5
2-Fluorophenol
Concen: 122.144 ng
RT: 5.408 min Scan# 4
Delta R.T. 0.000 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion:112 Resp: 1193329

Ion	Ratio	Lower	Upper
112	100		
64	56.0	43.8	65.8
63	29.0	22.7	34.1

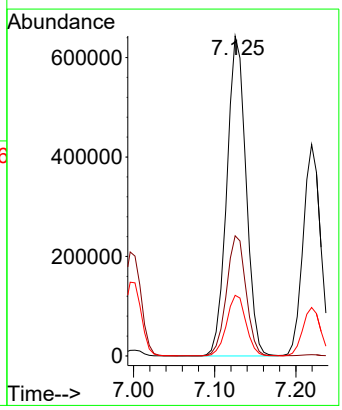


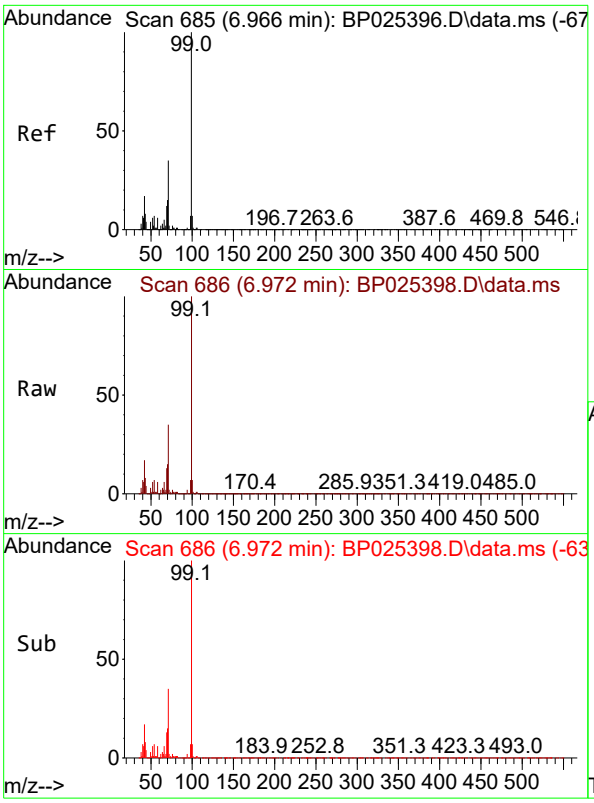


#6
Aniline
Concen: 62.408 ng
RT: 7.125 min Scan# 712
Delta R.T. 0.000 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Tgt Ion: 93 Resp: 1053232

Ion	Ratio	Lower	Upper
93	100		
66	37.5	30.4	45.6
65	18.9	15.3	22.9



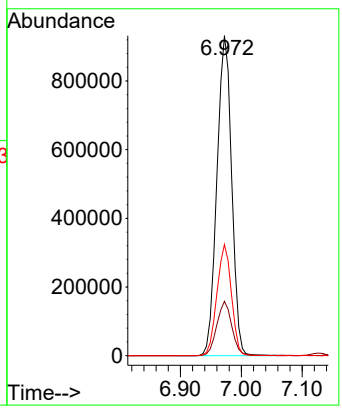


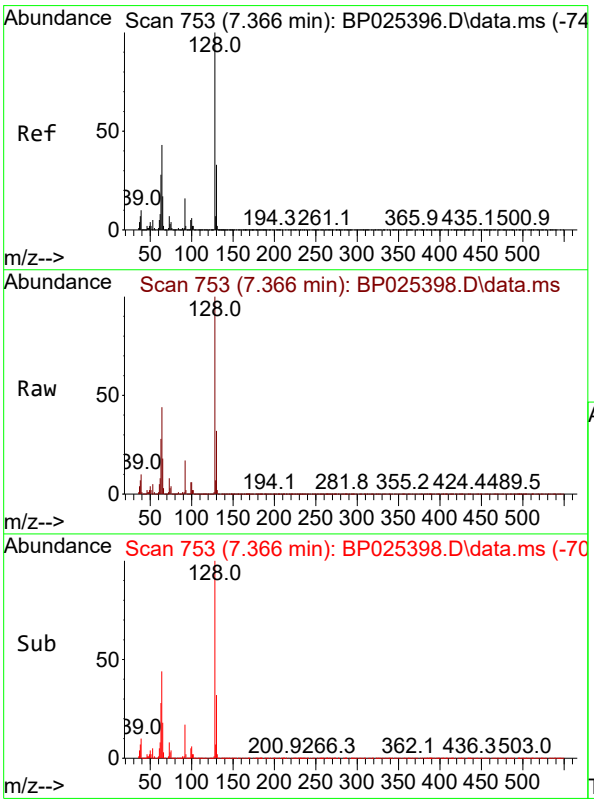
#7
Phenol-d6
Concen: 125.072 ng
RT: 6.972 min Scan# 6
Delta R.T. 0.006 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion: 99 Resp: 1566626

Ion	Ratio	Lower	Upper
99	100		
42	17.0	13.7	20.5
71	34.8	28.2	42.4

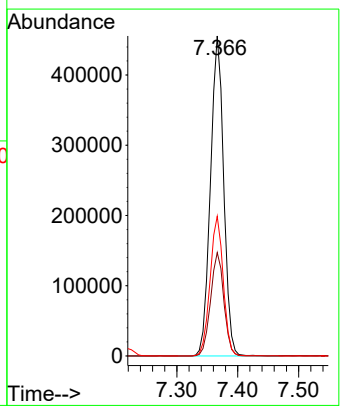


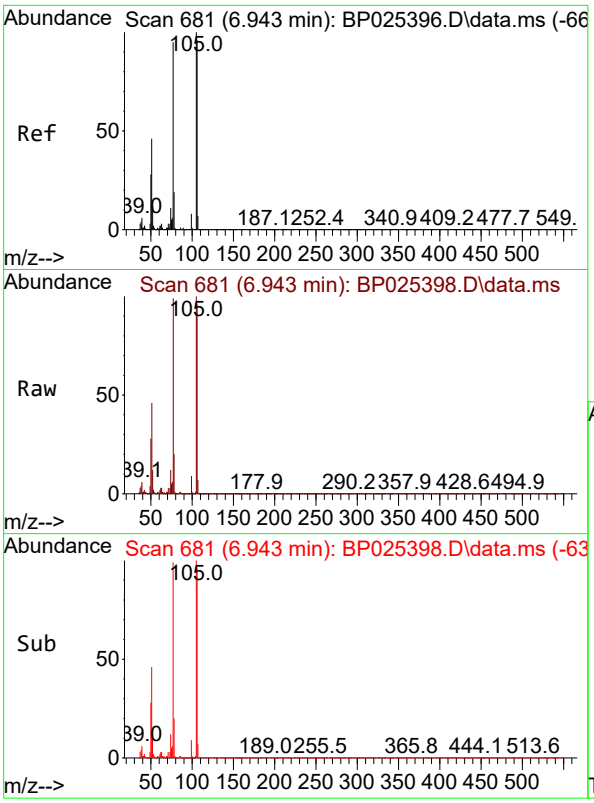


#8
2-Chlorophenol
Concen: 62.413 ng
RT: 7.366 min Scan# 753
Delta R.T. 0.000 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Tgt Ion:128 Resp: 688094

Ion	Ratio	Lower	Upper
128	100		
130	32.3	12.6	52.6
64	43.7	23.4	63.4



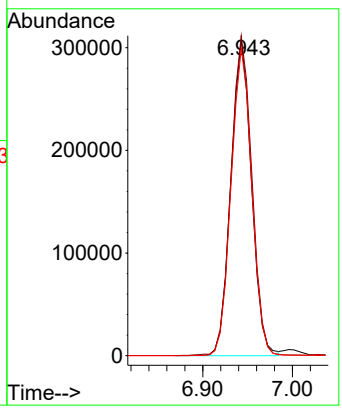


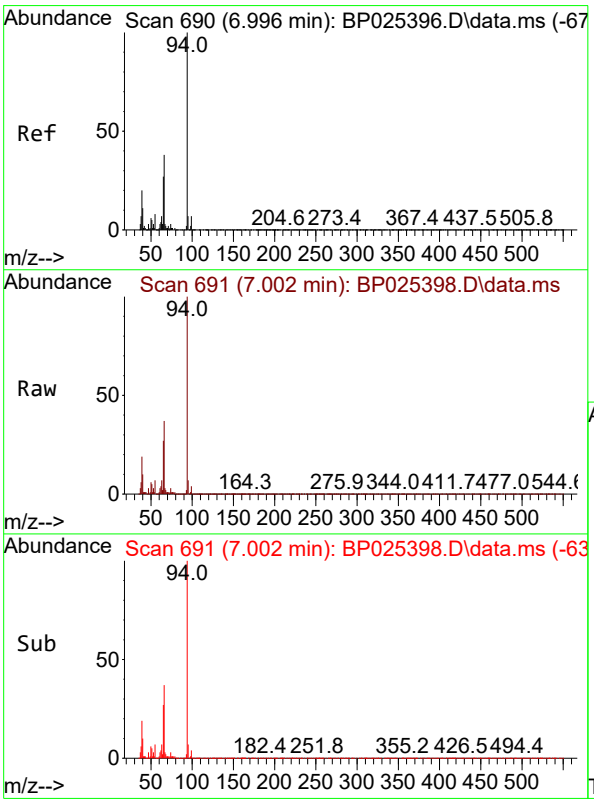
#9
Benzaldehyde
Concen: 55.745 ng
RT: 6.943 min Scan# 6
Delta R.T. 0.000 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion: 77 Resp: 489205

Ion	Ratio	Lower	Upper
77	100		
105	101.4	84.8	124.8
106	97.4	80.5	120.5

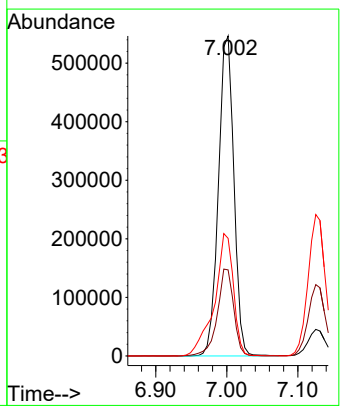


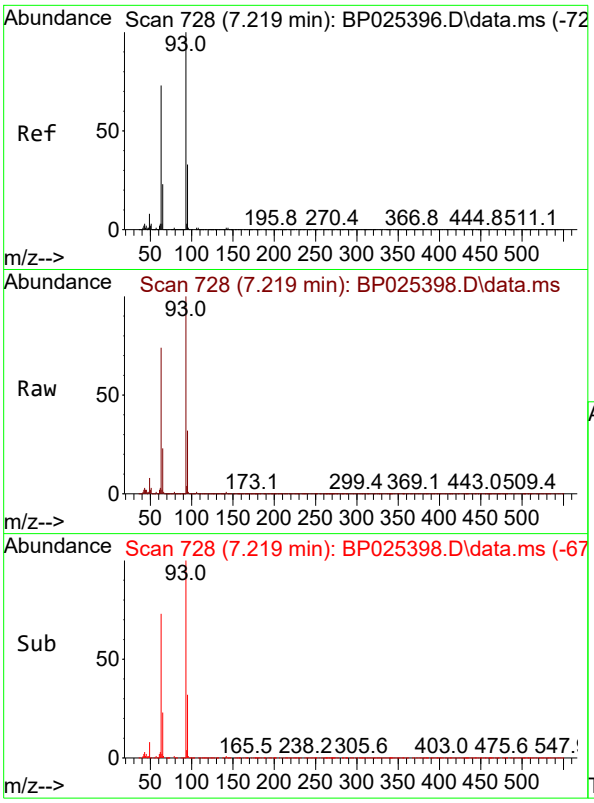


#10
Phenol
Concen: 62.530 ng
RT: 7.002 min Scan# 691
Delta R.T. 0.006 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Tgt Ion: 94 Resp: 821863

Ion	Ratio	Lower	Upper
94	100		
65	26.9	6.8	46.8
66	36.8	18.2	58.2



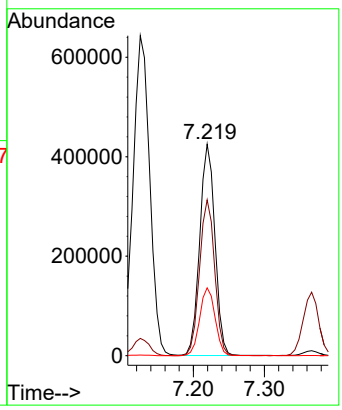


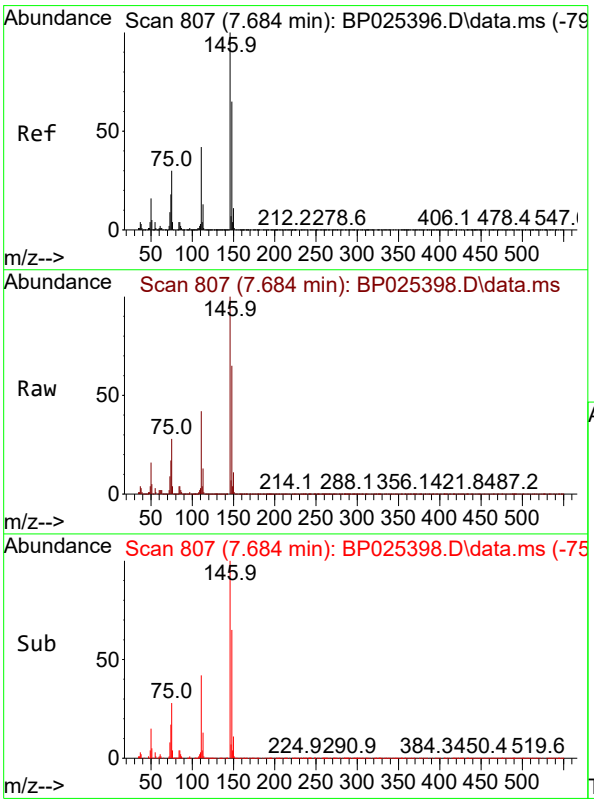
#11
bis(2-Chloroethyl)ether
Concen: 61.925 ng
RT: 7.219 min Scan# 7
Delta R.T. 0.000 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion: 93 Resp: 634374

Ion	Ratio	Lower	Upper
93	100		
63	73.6	52.6	92.6
95	32.0	12.7	52.7

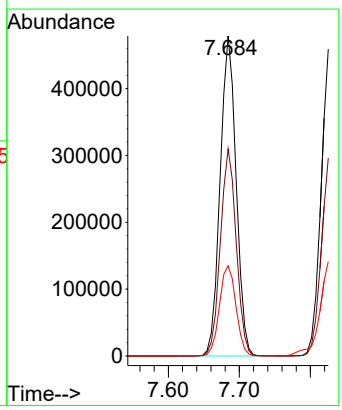


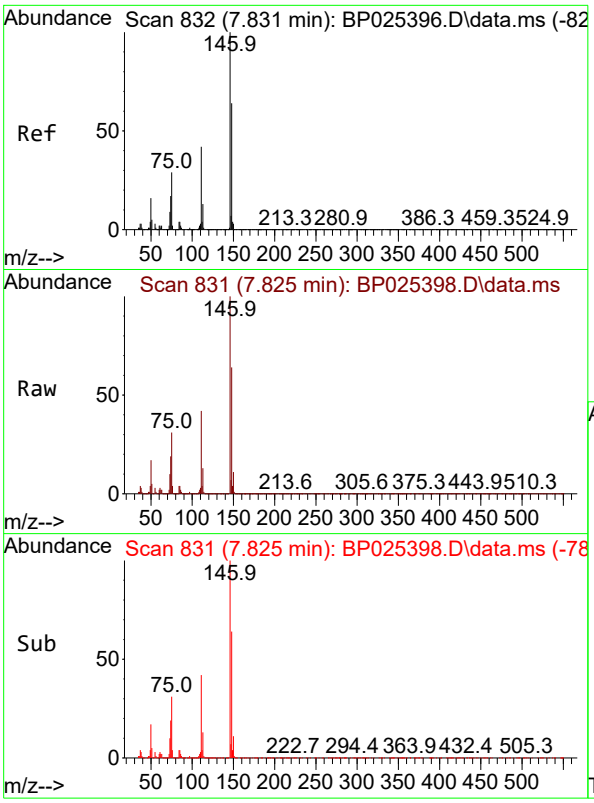


#12
1,3-Dichlorobenzene
Concen: 61.273 ng
RT: 7.684 min Scan# 807
Delta R.T. 0.000 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Tgt Ion:146 Resp: 744884

Ion	Ratio	Lower	Upper
146	100		
148	64.8	51.9	77.9
75	28.2	23.7	35.5



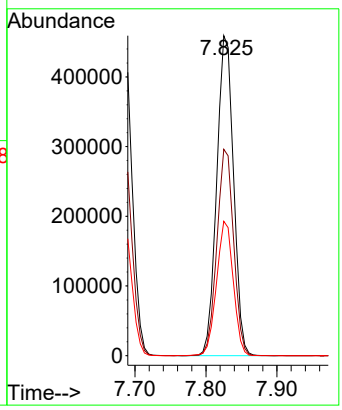


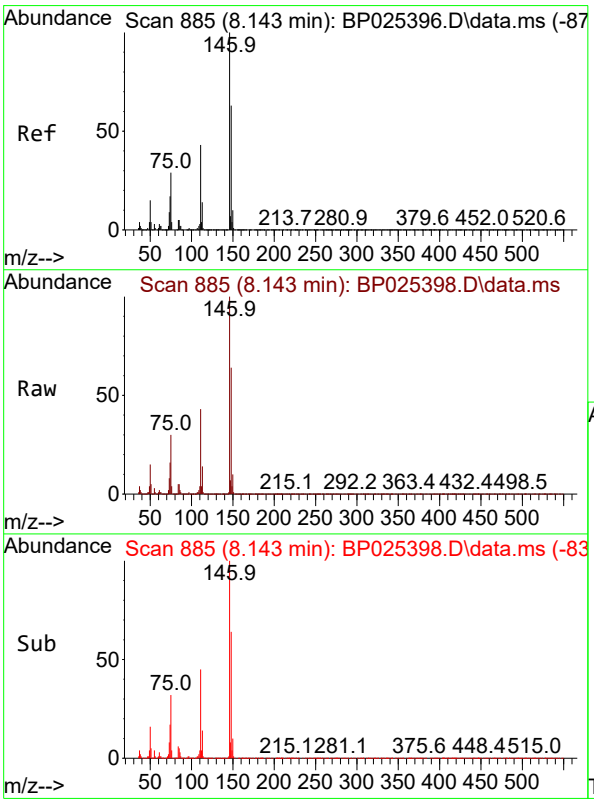
#13
1,4-Dichlorobenzene
Concen: 60.469 ng
RT: 7.825 min Scan# 8
Delta R.T. -0.006 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion:146 Resp: 751354

Ion	Ratio	Lower	Upper
146	100		
148	64.5	51.6	77.4
111	42.0	33.4	50.0

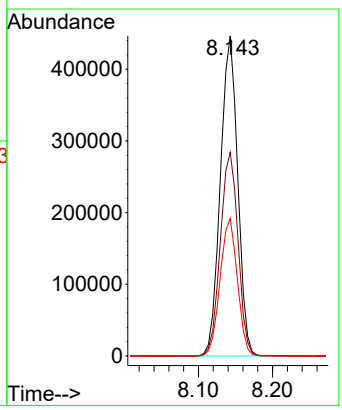


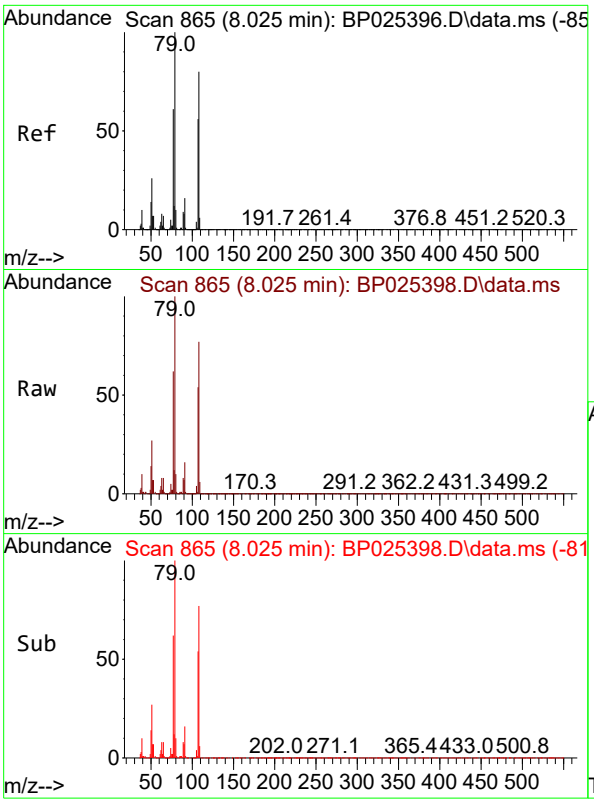


#14
1,2-Dichlorobenzene
Concen: 60.165 ng
RT: 8.143 min Scan# 885
Delta R.T. 0.000 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Tgt Ion:146 Resp: 723663

Ion	Ratio	Lower	Upper
146	100		
148	63.6	50.4	75.6
111	43.0	34.5	51.7



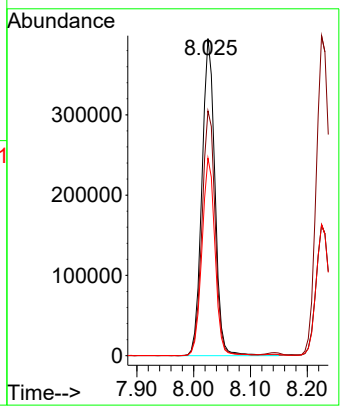


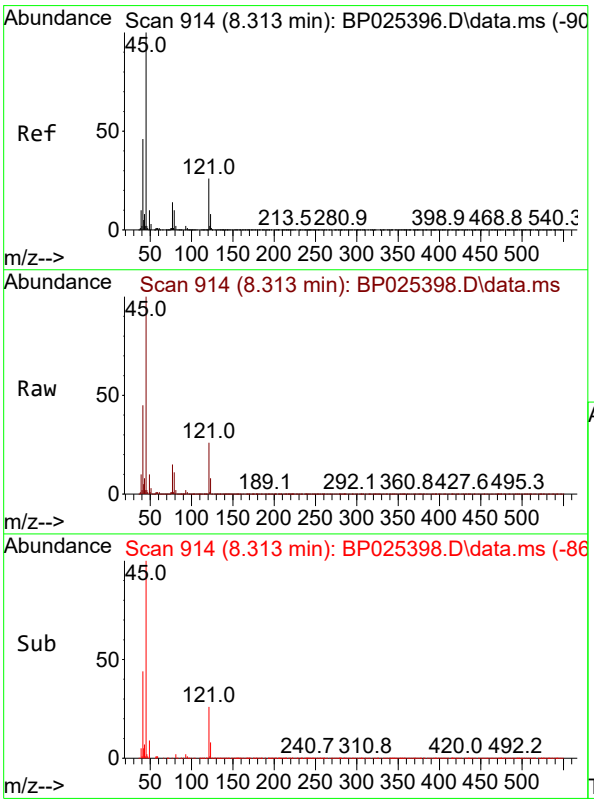
#15
Benzyl Alcohol
Concen: 63.019 ng
RT: 8.025 min Scan# 8
Delta R.T. 0.000 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion: 79 Resp: 627198

Ion	Ratio	Lower	Upper
79	100		
108	77.2	63.8	95.6
77	62.3	49.0	73.4

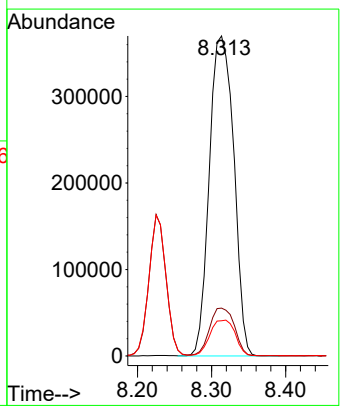


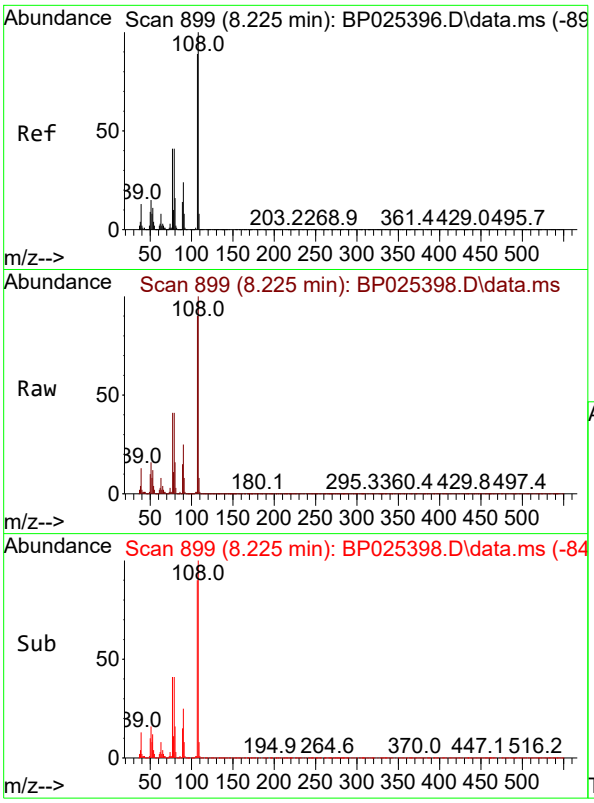


#16
2,2'-oxybis(1-Chloropropane)
Concen: 61.712 ng
RT: 8.313 min Scan# 914
Delta R.T. 0.000 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Tgt Ion: 45 Resp: 846896

Ion	Ratio	Lower	Upper
45	100		
77	14.9	0.0	35.3
79	11.0	0.0	31.8



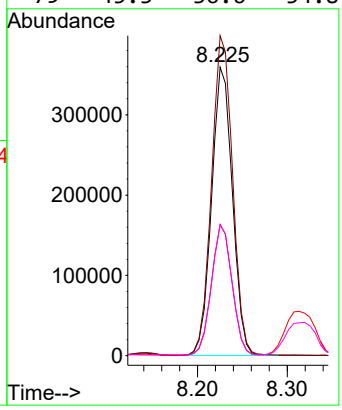


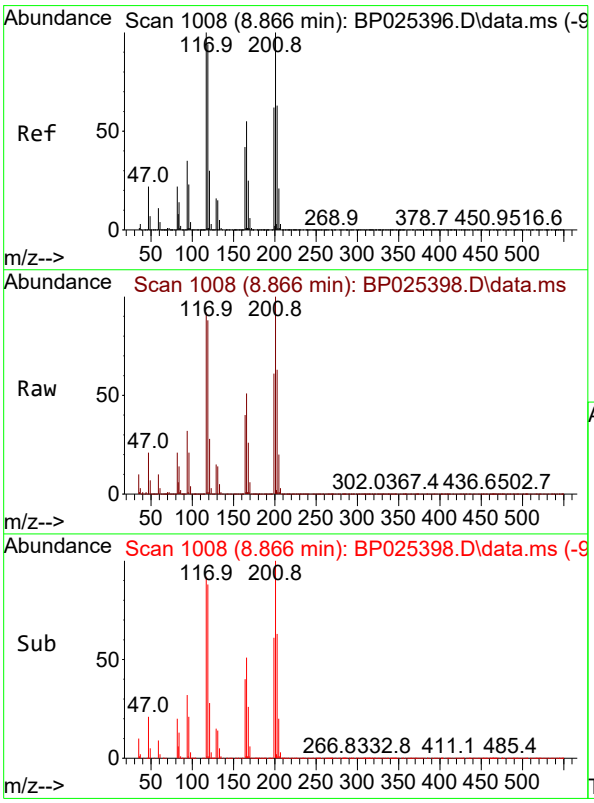
#17
2-Methylphenol
Concen: 63.480 ng
RT: 8.225 min Scan# 8
Delta R.T. 0.000 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion:107 Resp: 579471

Ion	Ratio	Lower	Upper
107	100		
108	110.9	89.4	134.0
77	45.5	36.3	54.5
79	45.3	36.6	54.8

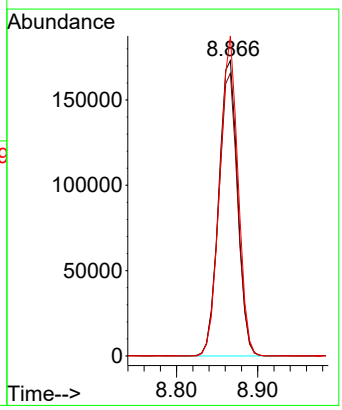


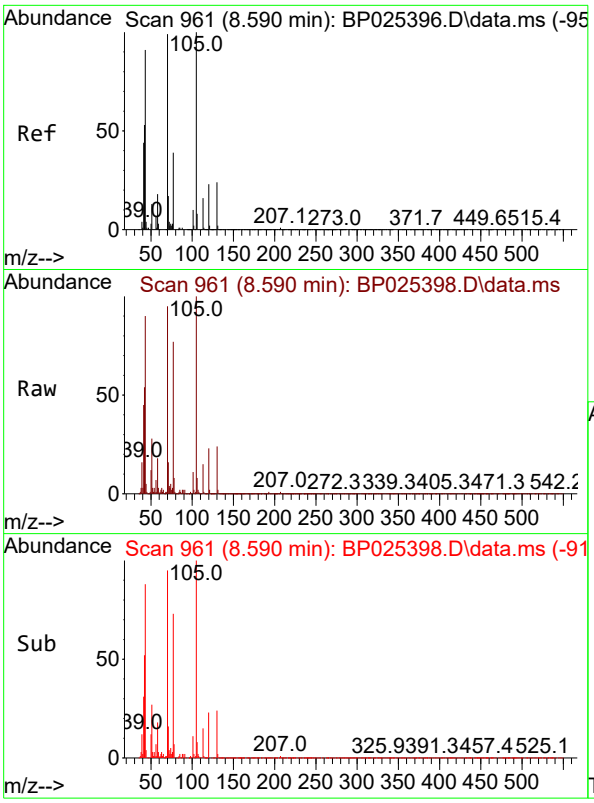


#18
Hexachloroethane
Concen: 61.535 ng
RT: 8.866 min Scan# 1008
Delta R.T. 0.000 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Tgt Ion:117 Resp: 281129

Ion	Ratio	Lower	Upper
117	100		
119	95.7	75.1	112.7
201	108.4	80.1	120.1



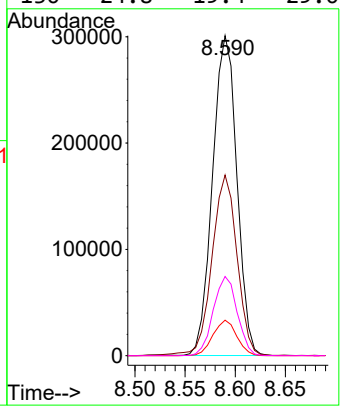


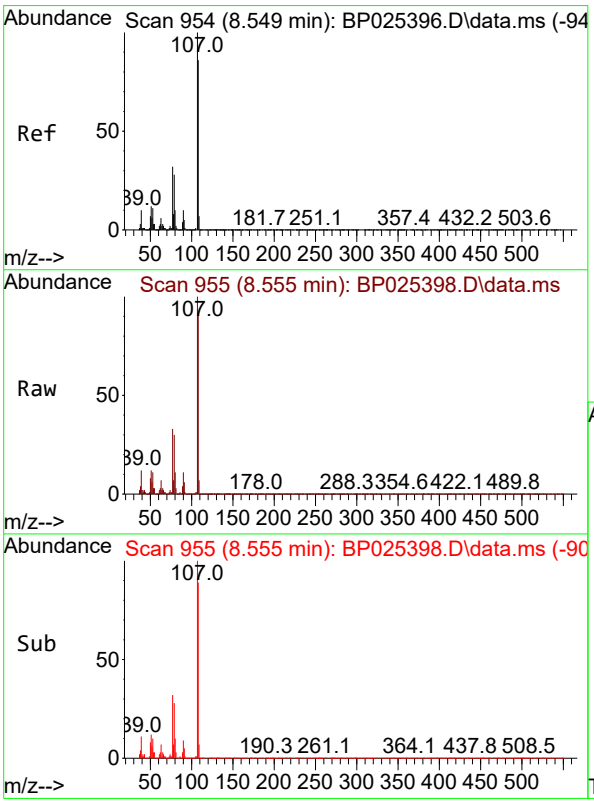
#19
n-Nitroso-di-n-propylamine
Concen: 61.060 ng
RT: 8.590 min Scan# 9
Delta R.T. 0.000 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion: 70 Resp: 507223

Ion	Ratio	Lower	Upper
70	100		
42	56.5	43.8	65.6
101	11.1	8.5	12.7
130	24.8	19.4	29.0

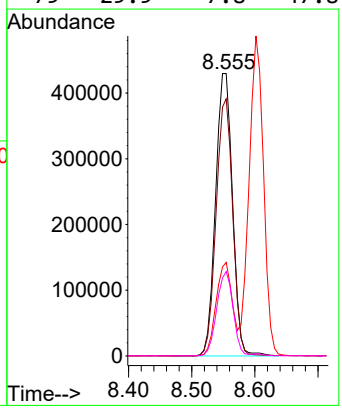


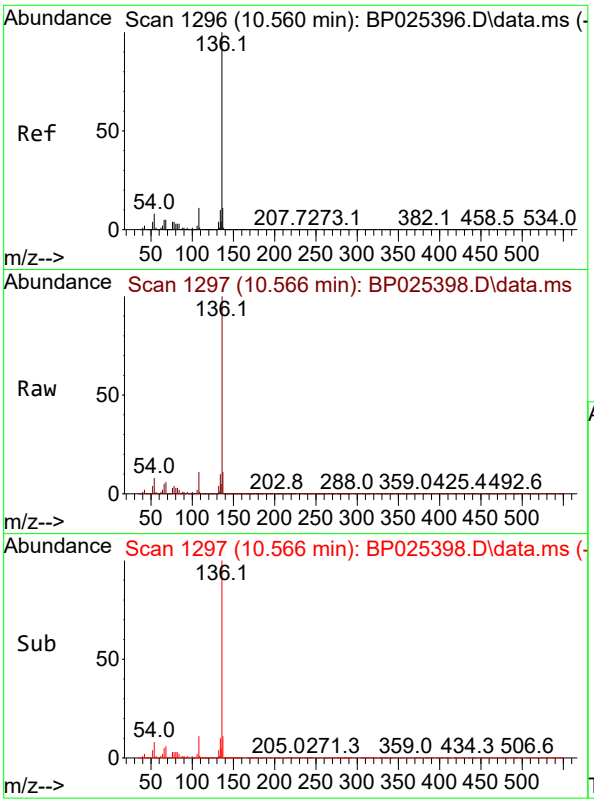


#20
3+4-Methylphenols
Concen: 63.075 ng
RT: 8.555 min Scan# 955
Delta R.T. 0.006 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Tgt Ion:107 Resp: 798107

Ion	Ratio	Lower	Upper
107	100		
108	91.0	66.3	106.3
77	33.1	12.3	52.3
79	29.9	7.8	47.8



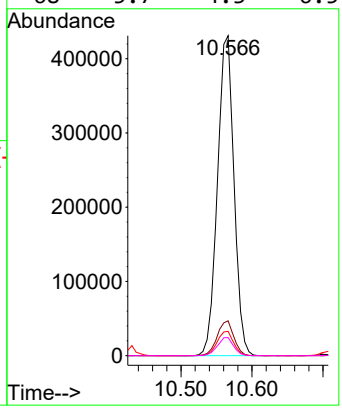


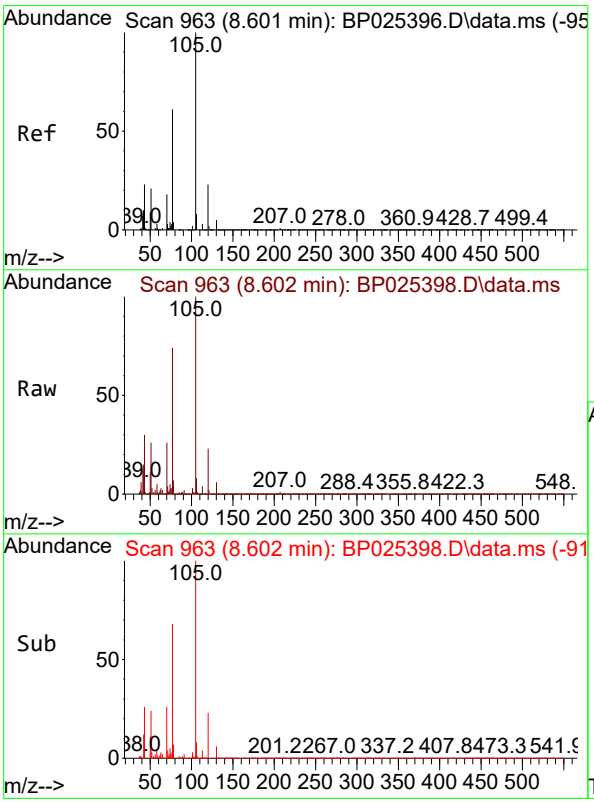
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.566 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion:136 Resp: 693237

Ion	Ratio	Lower	Upper
136	100		
137	10.9	9.2	13.8
54	7.6	6.0	9.0
68	5.7	4.3	6.5

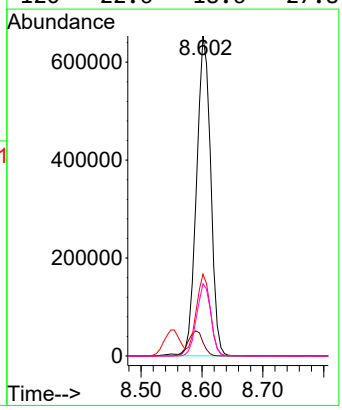


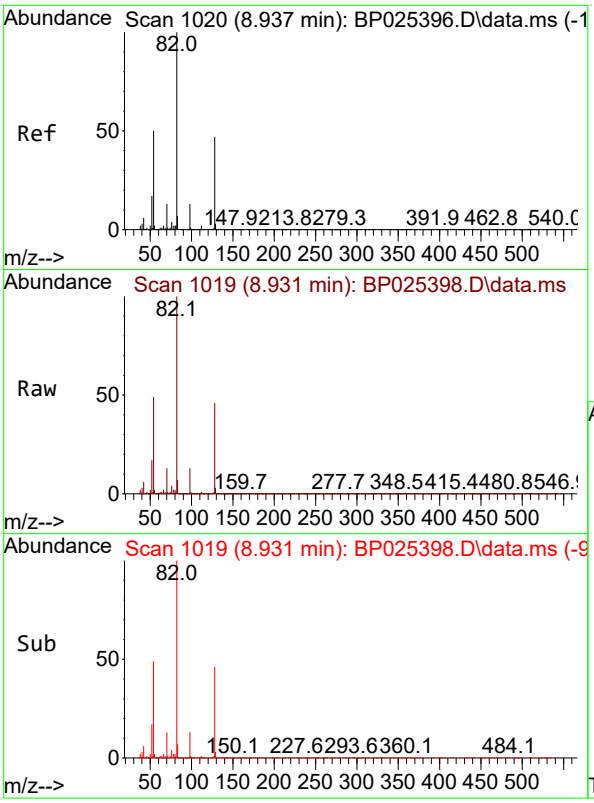


#22
Acetophenone
Concen: 60.503 ng
RT: 8.602 min Scan# 963
Delta R.T. 0.000 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Tgt Ion:105 Resp: 1051848

Ion	Ratio	Lower	Upper
105	100		
71	4.2	2.6	4.0#
51	25.5	20.6	30.8
120	22.6	18.6	27.8



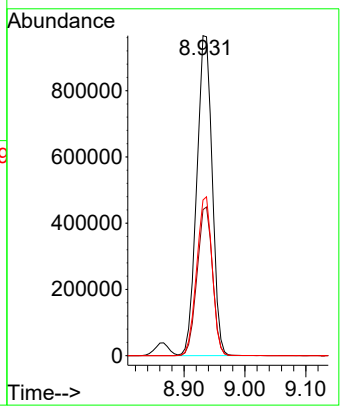


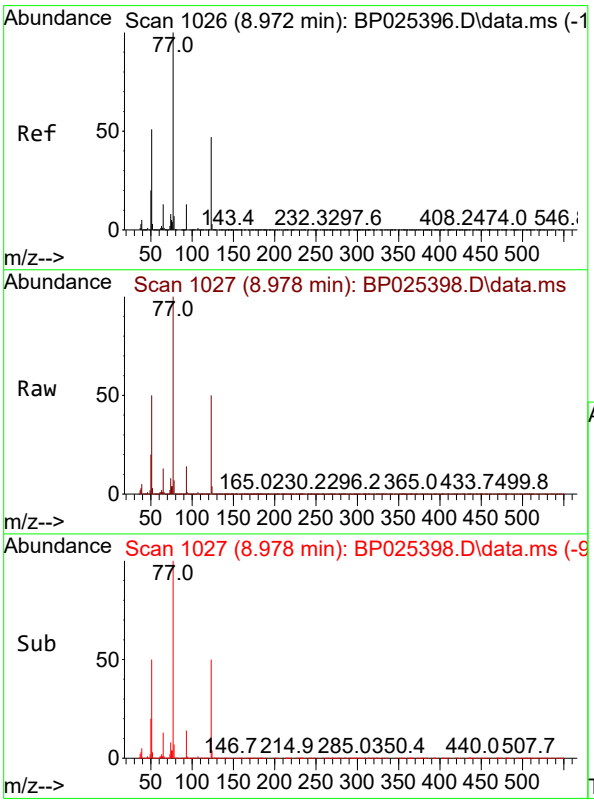
#23
Nitrobenzene-d5
Concen: 123.944 ng
RT: 8.931 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion: 82 Resp: 1698557

Ion	Ratio	Lower	Upper
82	100		
128	45.7	37.7	56.5
54	48.6	39.8	59.6

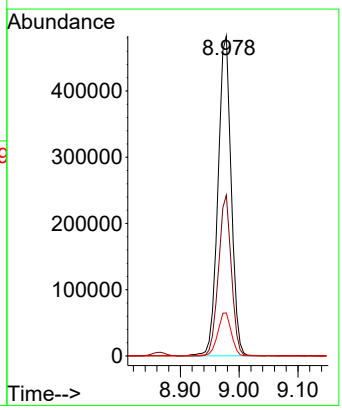


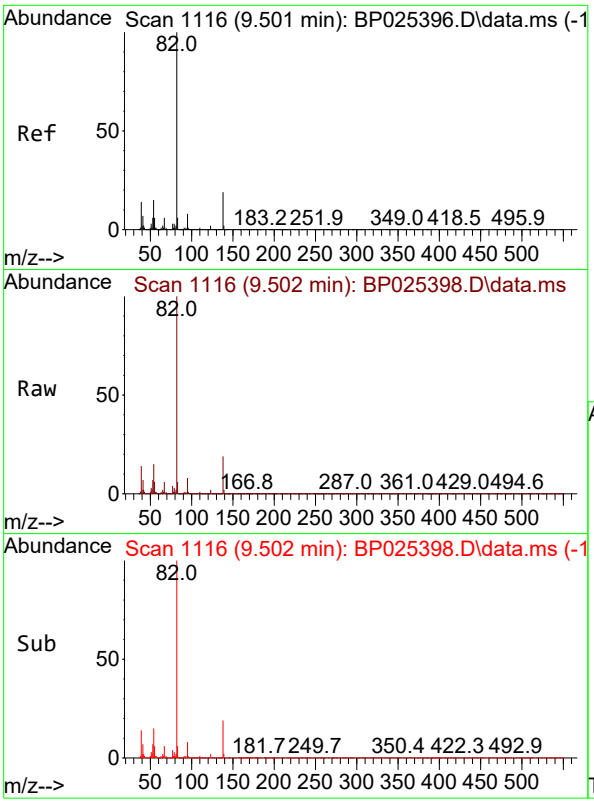


#24
Nitrobenzene
Concen: 61.461 ng
RT: 8.978 min Scan# 1027
Delta R.T. 0.006 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Tgt Ion: 77 Resp: 752762

Ion	Ratio	Lower	Upper
77	100		
123	50.3	38.6	58.0
65	13.4	10.6	15.8



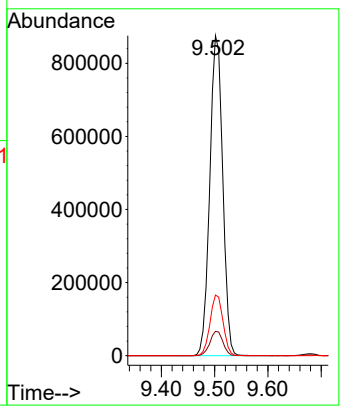


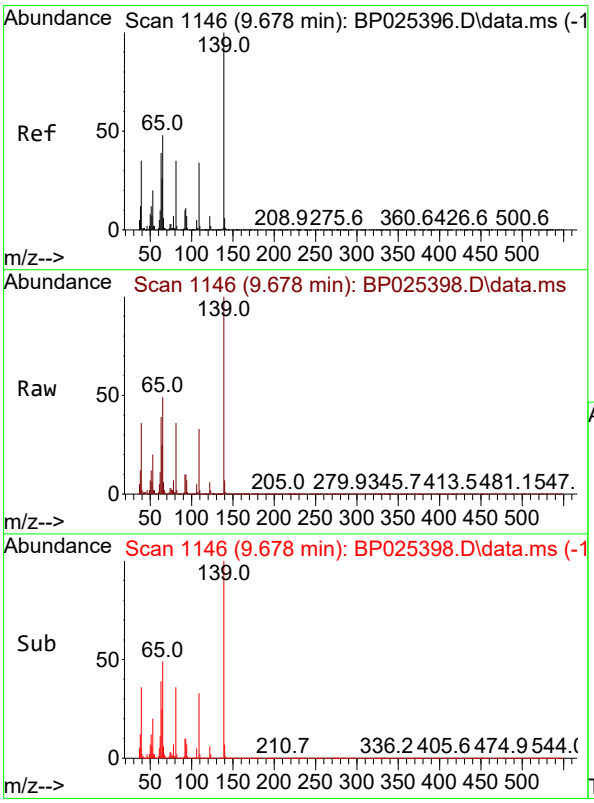
#25
Isophorone
Concen: 60.825 ng
RT: 9.502 min Scan# 11
Delta R.T. 0.000 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion: 82 Resp: 1475193

Ion	Ratio	Lower	Upper
82	100		
95	7.6	6.4	9.6
138	19.0	15.4	23.0

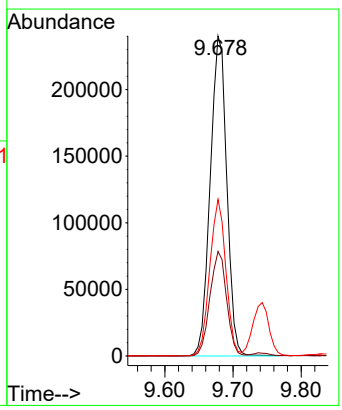


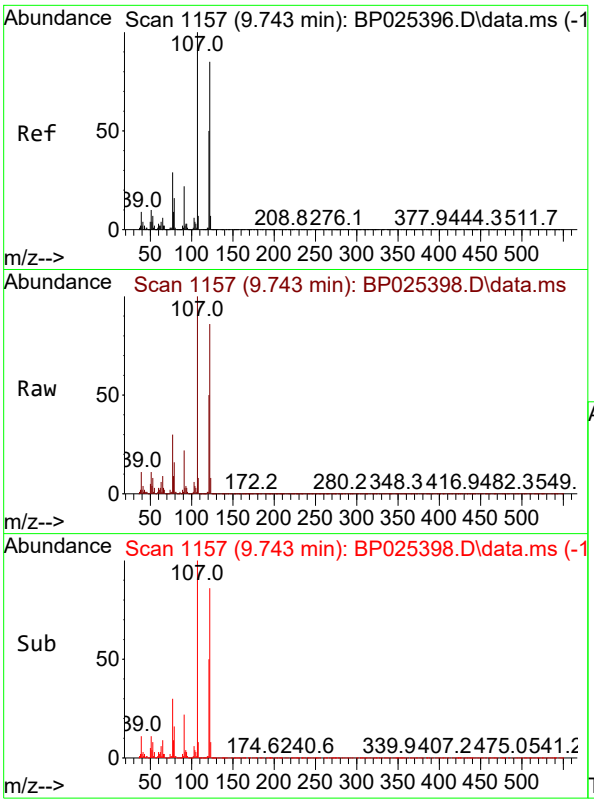


#26
2-Nitrophenol
Concen: 64.564 ng
RT: 9.678 min Scan# 1146
Delta R.T. 0.000 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Tgt Ion:139 Resp: 405821

Ion	Ratio	Lower	Upper
139	100		
109	32.7	26.9	40.3
65	48.9	38.3	57.5



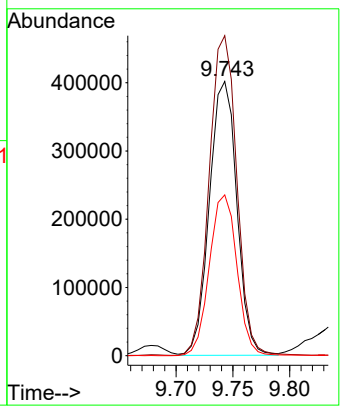


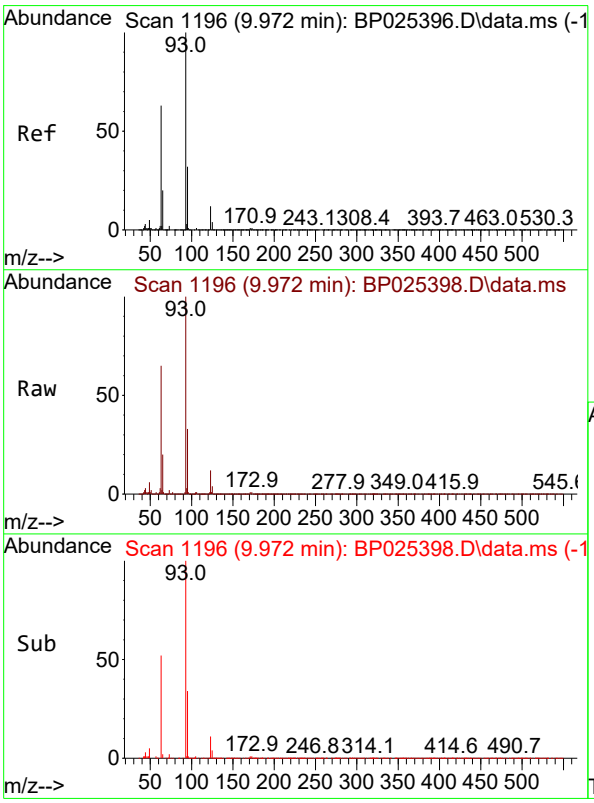
#27
2,4-Dimethylphenol
Concen: 62.463 ng
RT: 9.743 min Scan# 11
Delta R.T. 0.000 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion:122 Resp: 675186

Ion	Ratio	Lower	Upper
122	100		
107	116.7	93.7	140.5
121	58.6	46.6	69.8

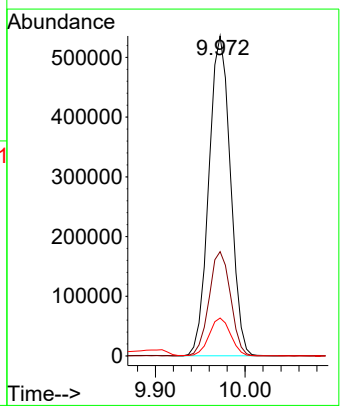


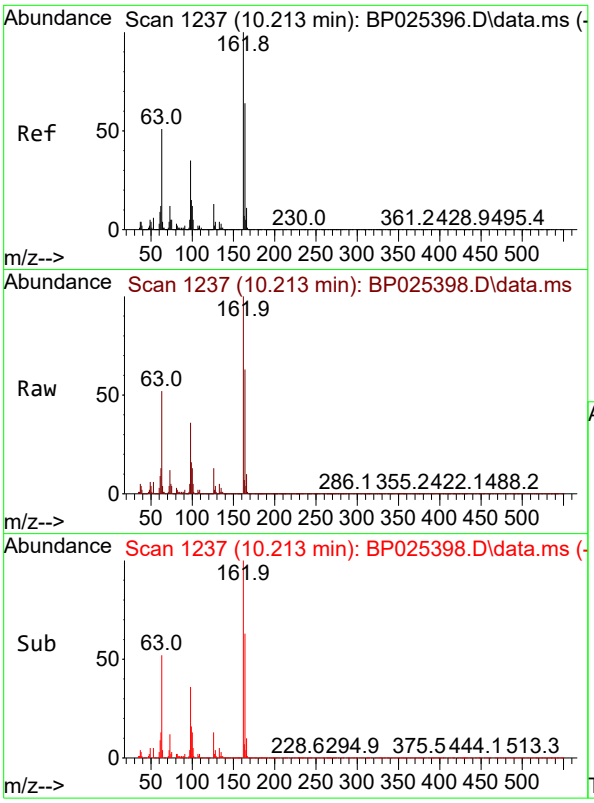


#28
bis(2-Chloroethoxy)methane
Concen: 61.040 ng
RT: 9.972 min Scan# 1196
Delta R.T. 0.000 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Tgt Ion: 93 Resp: 894872

Ion	Ratio	Lower	Upper
93	100		
95	32.6	25.4	38.0
123	11.9	9.4	14.0



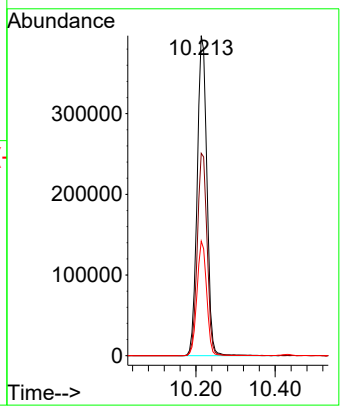


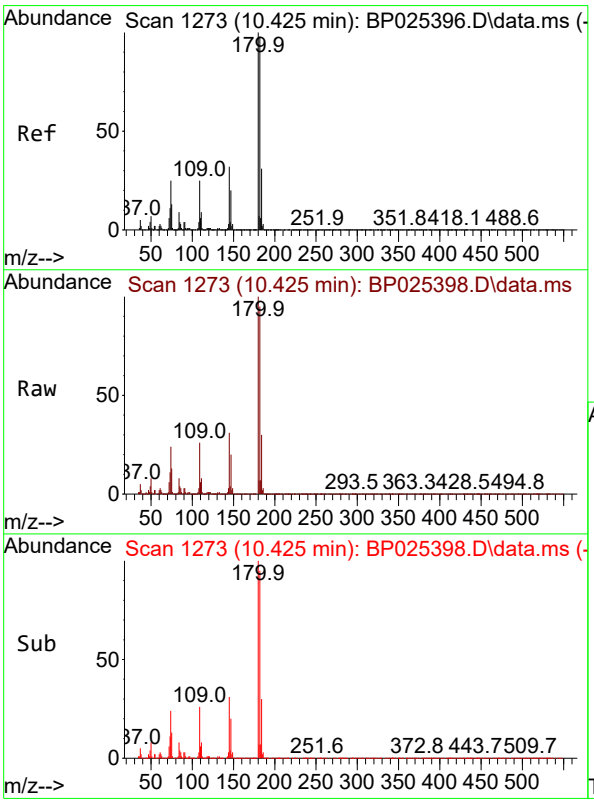
#29
2,4-Dichlorophenol
Concen: 62.764 ng
RT: 10.213 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion:162 Resp: 673952

Ion	Ratio	Lower	Upper
162	100		
164	63.3	44.4	84.4
98	35.8	14.9	54.9

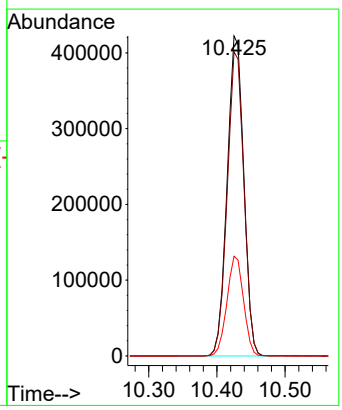


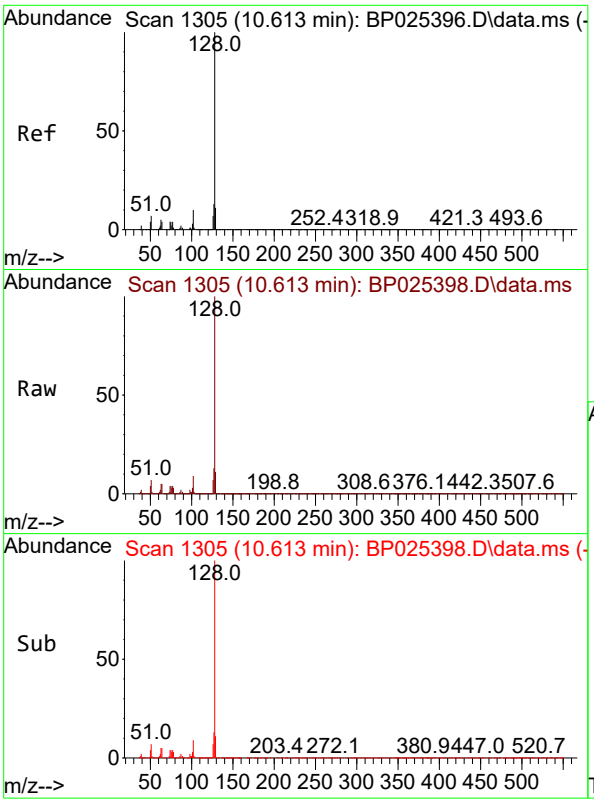


#30
1,2,4-Trichlorobenzene
Concen: 60.823 ng
RT: 10.425 min Scan# 1273
Delta R.T. 0.000 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Tgt Ion:180 Resp: 715954

Ion	Ratio	Lower	Upper
180	100		
182	95.0	78.0	117.0
145	31.2	25.9	38.9



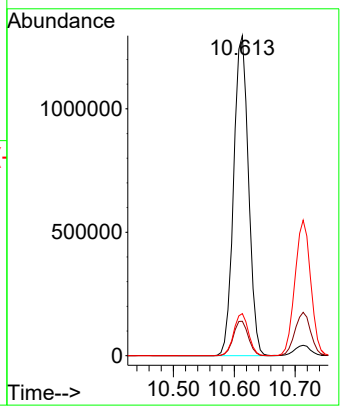


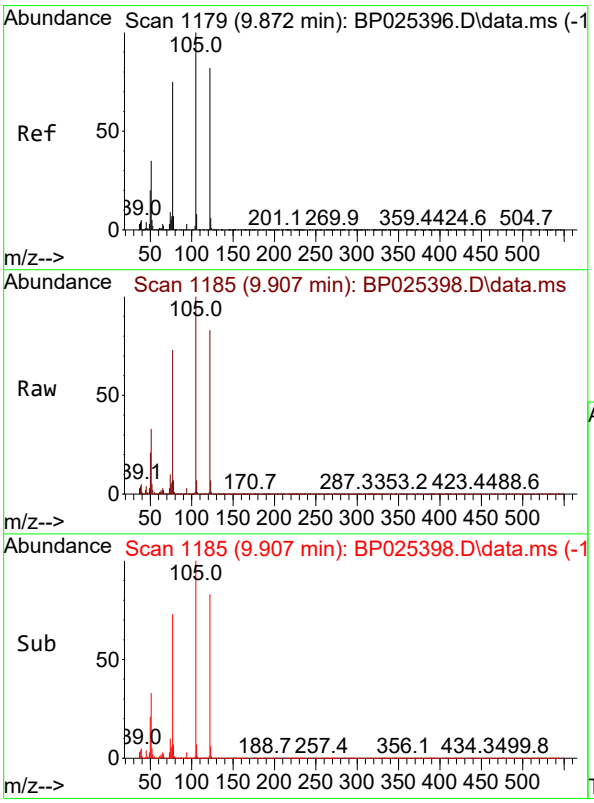
#31
Naphthalene
Concen: 60.722 ng
RT: 10.613 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion:128 Resp: 2187912

Ion	Ratio	Lower	Upper
128	100		
129	10.8	8.6	13.0
127	13.2	10.7	16.1

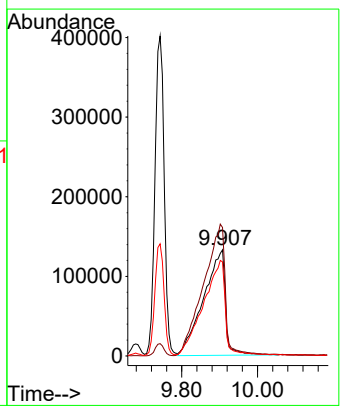


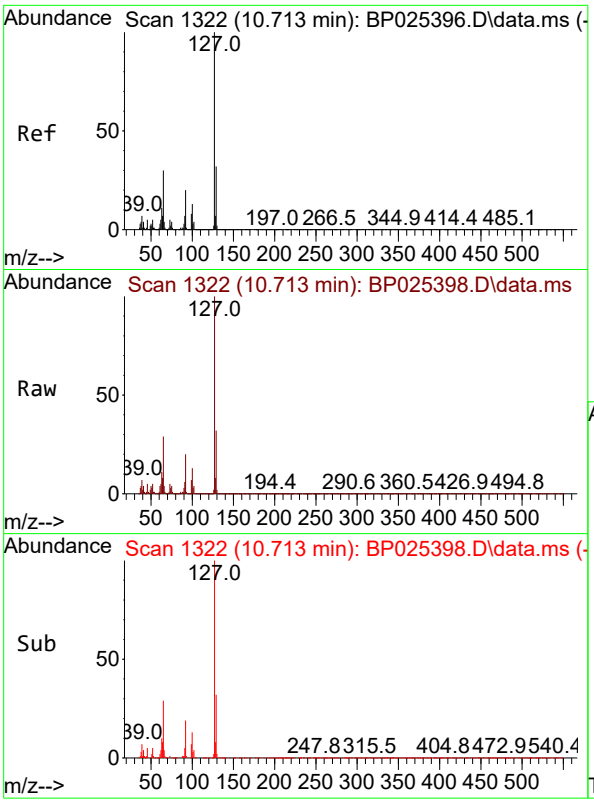


#32
Benzoic acid
Concen: 66.651 ng
RT: 9.907 min Scan# 1185
Delta R.T. 0.035 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Tgt Ion:122 Resp: 530609

Ion	Ratio	Lower	Upper
122	100		
105	121.0	100.6	140.6
77	88.6	71.5	111.5



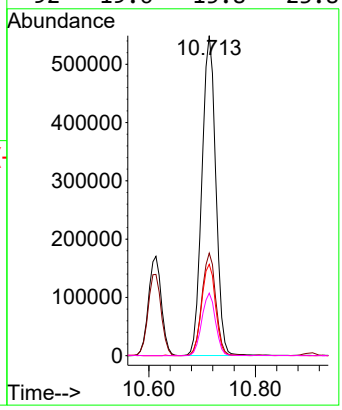


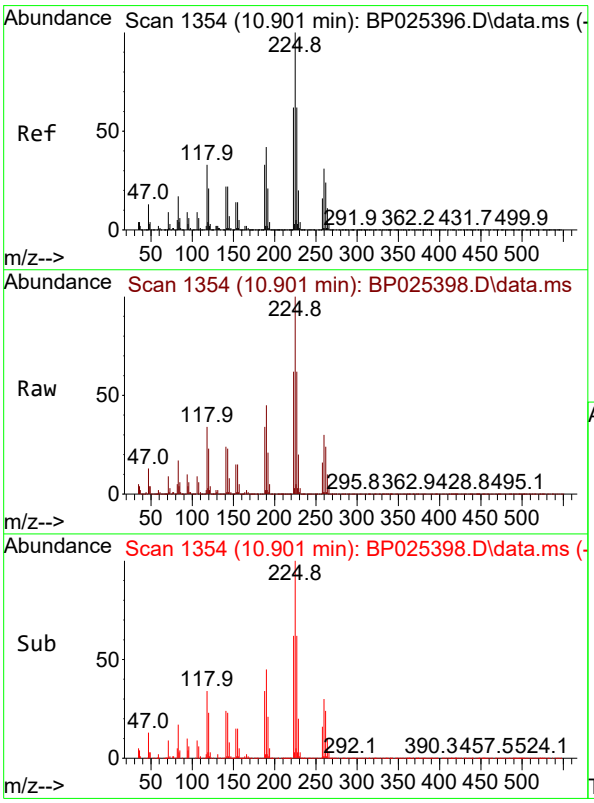
#33
4-Chloroaniline
Concen: 62.401 ng
RT: 10.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion:127 Resp: 993155

Ion	Ratio	Lower	Upper
127	100		
129	32.0	25.4	38.2
65	28.5	23.8	35.6
92	19.6	15.8	23.8

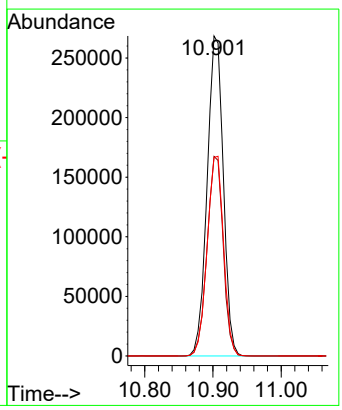


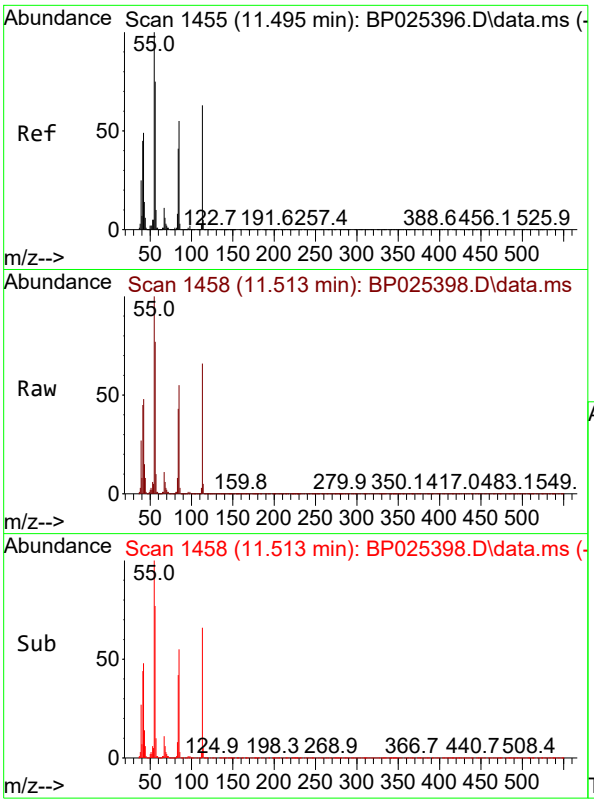


#34
Hexachlorobutadiene
Concen: 60.421 ng
RT: 10.901 min Scan# 1354
Delta R.T. 0.000 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Tgt Ion:225 Resp: 442929

Ion	Ratio	Lower	Upper
225	100		
223	62.4	50.0	75.0
227	62.1	49.7	74.5



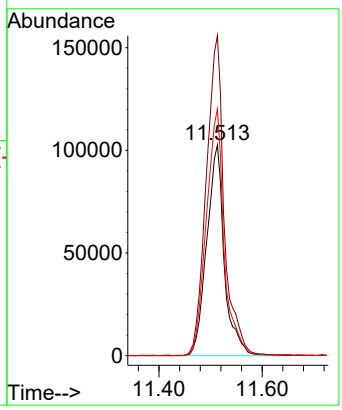


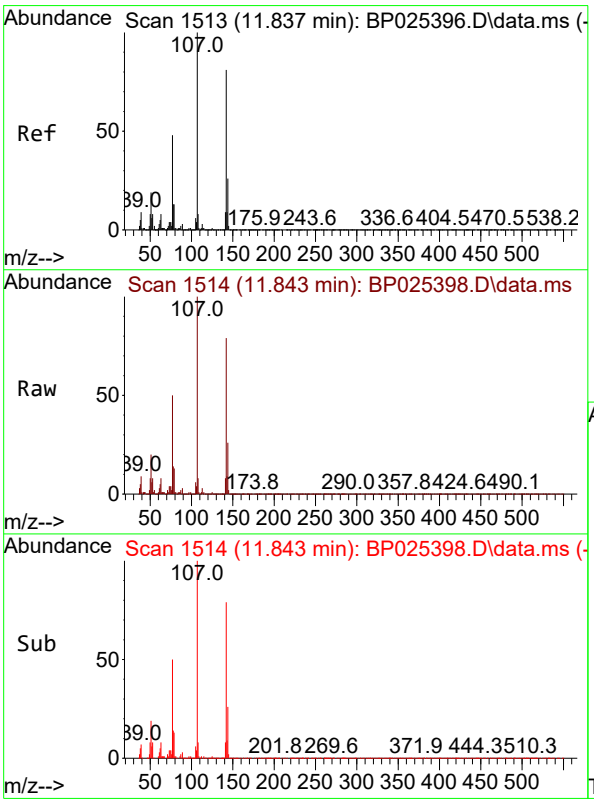
#35
Caprolactam
Concen: 61.340 ng
RT: 11.513 min Scan# 14
Delta R.T. 0.018 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion:113 Resp: 241521

Ion	Ratio	Lower	Upper
113	100		
55	151.8	140.0	180.0
56	117.0	100.0	140.0

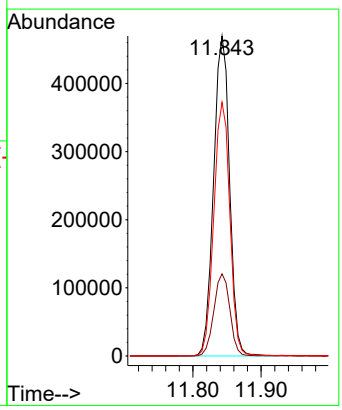


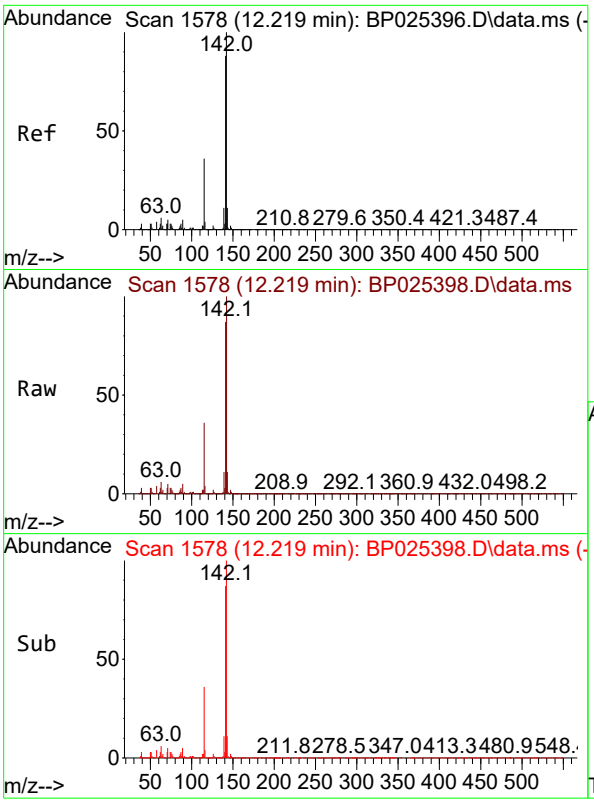


#36
4-Chloro-3-methylphenol
Concen: 62.033 ng
RT: 11.843 min Scan# 1514
Delta R.T. 0.006 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Tgt Ion:107 Resp: 764338

Ion	Ratio	Lower	Upper
107	100		
144	25.7	21.0	31.4
142	79.2	64.6	97.0



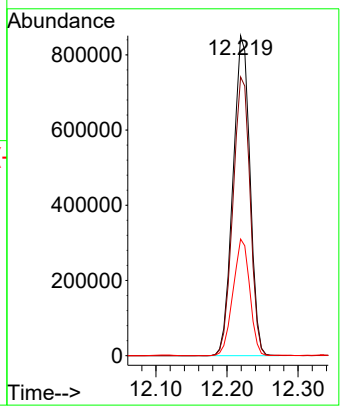


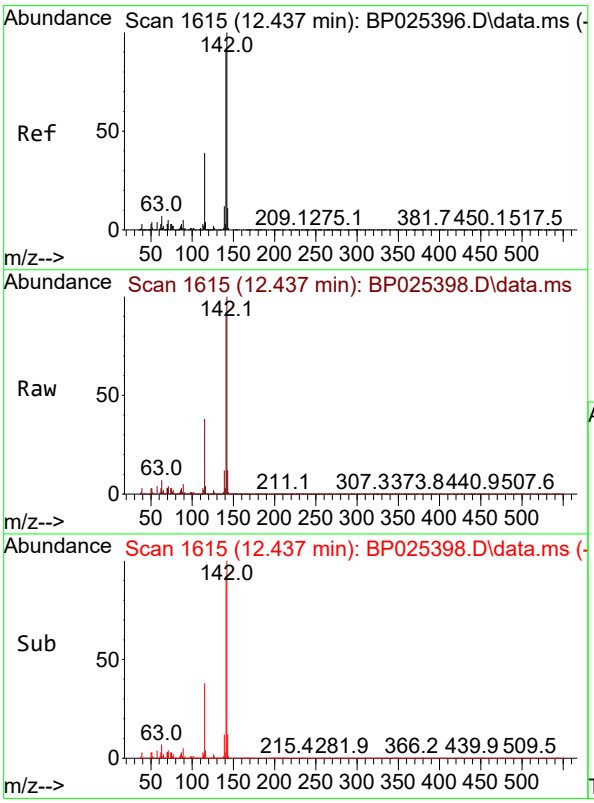
#37
2-Methylnaphthalene
Concen: 60.511 ng
RT: 12.219 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion:142 Resp: 1418882

Ion	Ratio	Lower	Upper
142	100		
141	87.1	70.3	105.5
115	36.5	28.9	43.3

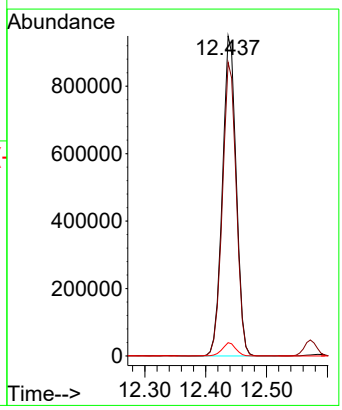


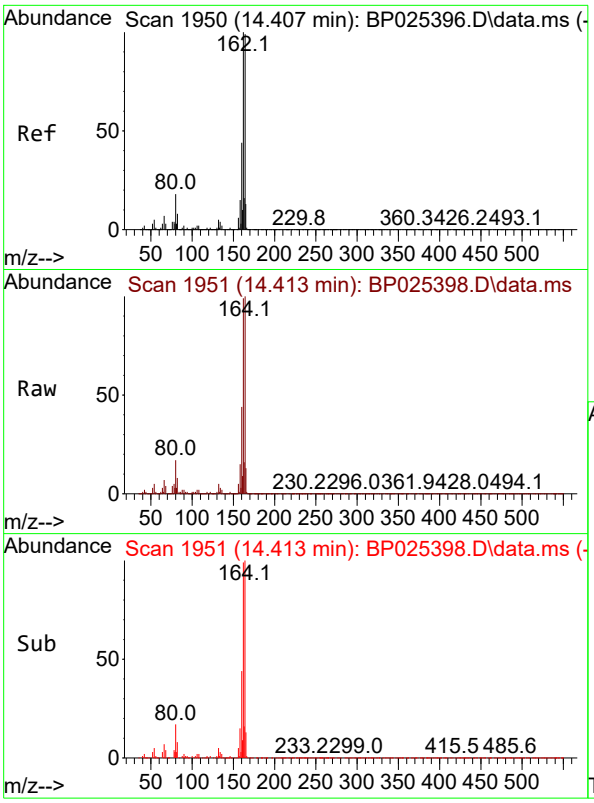


#38
1-Methylnaphthalene
Concen: 59.925 ng
RT: 12.437 min Scan# 1615
Delta R.T. 0.000 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Tgt Ion:142 Resp: 1494304

Ion	Ratio	Lower	Upper
142	100		
141	91.7	73.1	109.7
116	4.1	3.2	4.8



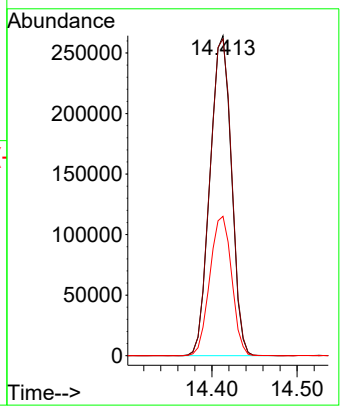


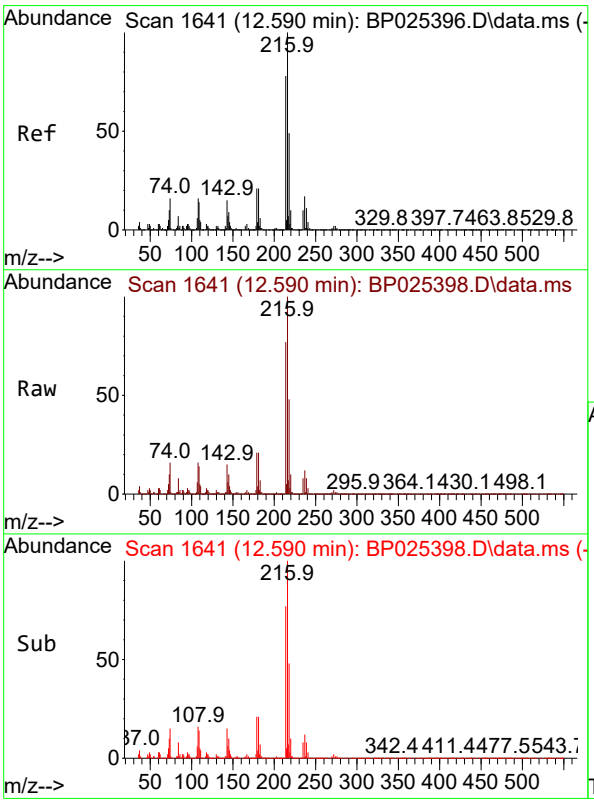
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.413 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion:164 Resp: 460439

Ion	Ratio	Lower	Upper
164	100		
162	99.0	81.0	121.6
160	43.6	35.4	53.2

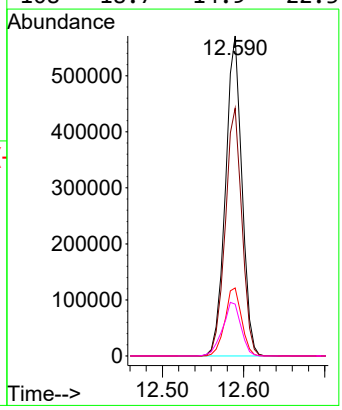


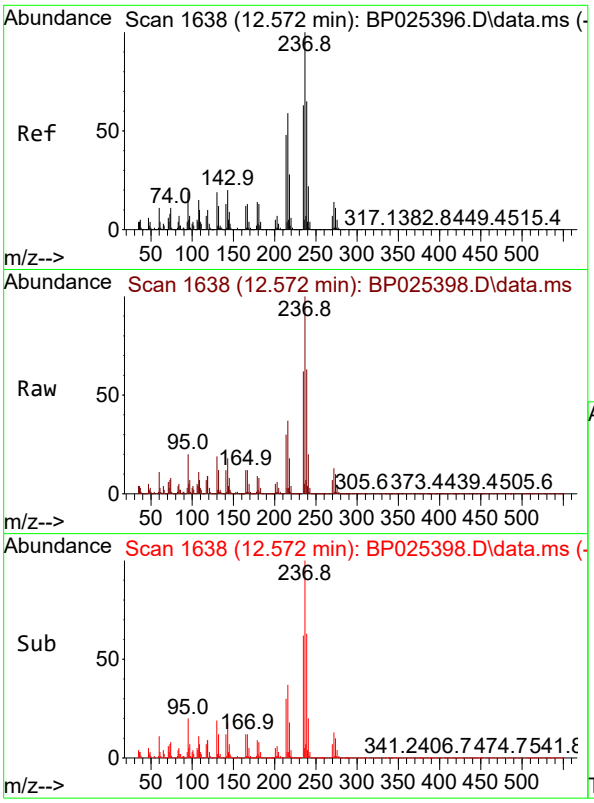


#40
1,2,4,5-Tetrachlorobenzene
Concen: 60.365 ng
RT: 12.590 min Scan# 1641
Delta R.T. 0.000 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Tgt Ion:216 Resp: 802737

Ion	Ratio	Lower	Upper
216	100		
214	78.3	63.0	94.4
179	21.6	17.1	25.7
108	18.7	14.9	22.3



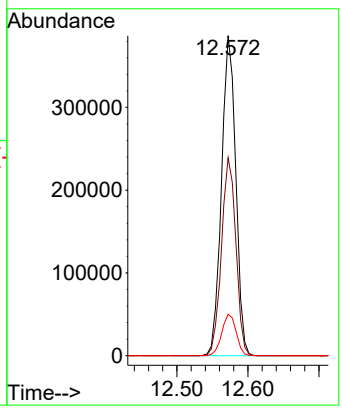


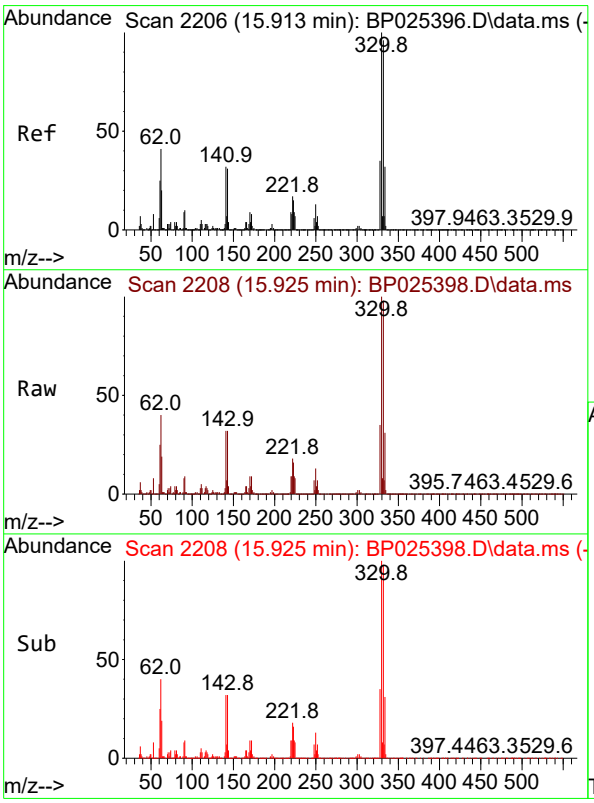
#41
Hexachlorocyclopentadiene
Concen: 66.784 ng
RT: 12.572 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion:237 Resp: 536440

Ion	Ratio	Lower	Upper
237	100		
235	61.9	42.7	82.7
272	13.0	0.0	34.0

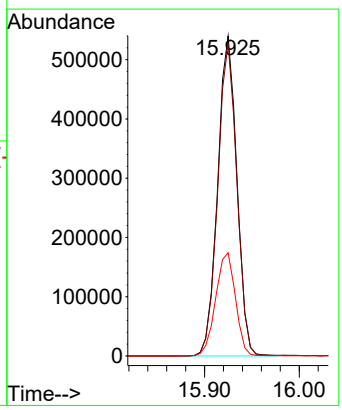


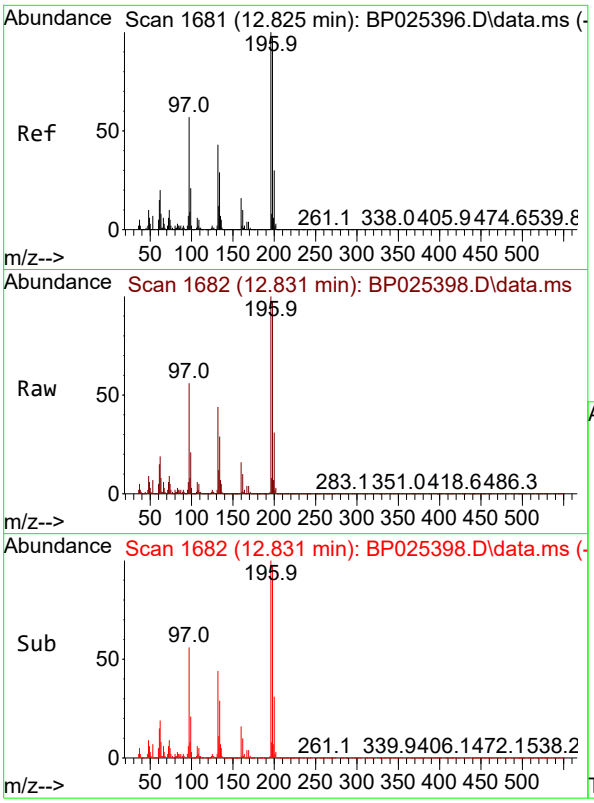


#42
2,4,6-Tribromophenol
Concen: 122.748 ng
RT: 15.925 min Scan# 2208
Delta R.T. 0.012 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Tgt Ion:330 Resp: 760738

Ion	Ratio	Lower	Upper
330	100		
332	97.5	77.3	115.9
141	33.3	26.6	39.8



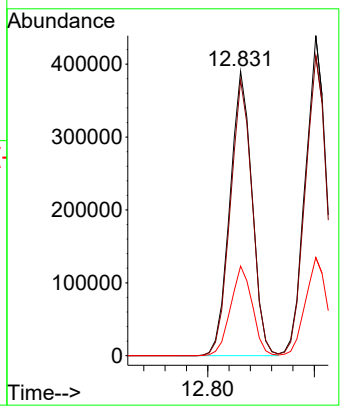


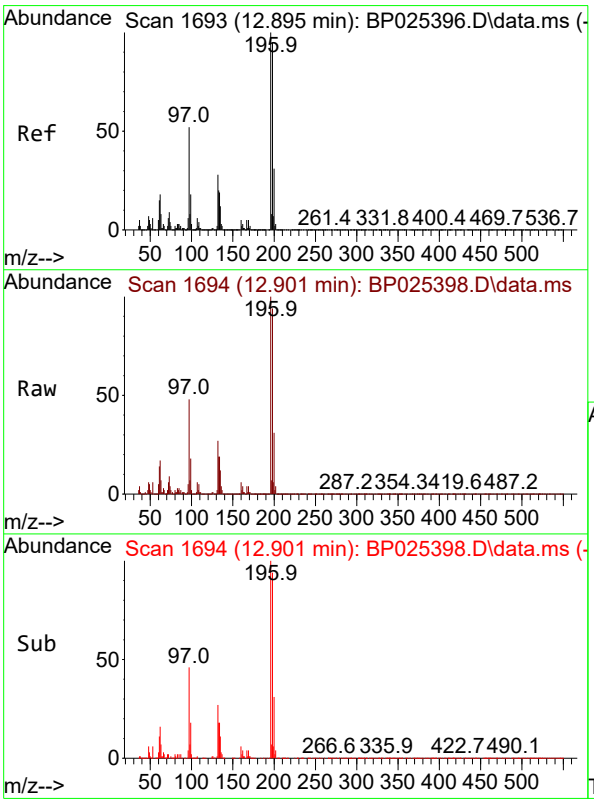
#43
2,4,6-Trichlorophenol
Concen: 62.841 ng
RT: 12.831 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion:196 Resp: 564165

Ion	Ratio	Lower	Upper
196	100		
198	96.9	77.2	115.8
200	31.5	23.9	35.9

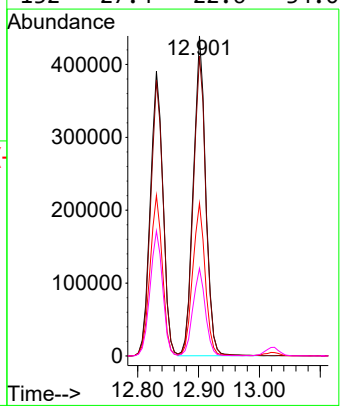


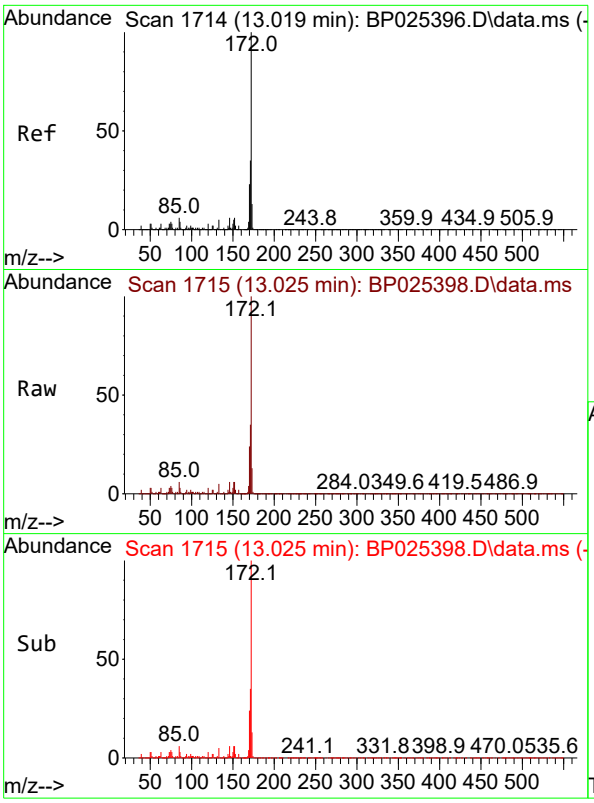


#44
2,4,5-Trichlorophenol
Concen: 62.937 ng
RT: 12.901 min Scan# 1694
Delta R.T. 0.006 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Tgt Ion:196 Resp: 619246

Ion	Ratio	Lower	Upper
196	100		
198	93.8	76.2	114.2
97	47.7	41.2	61.8
132	27.4	22.6	34.0



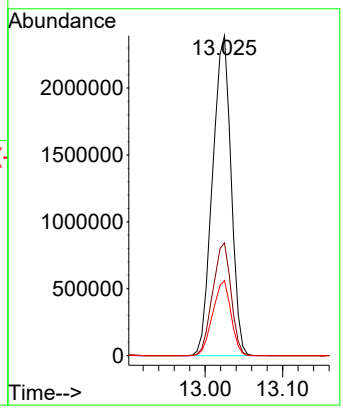


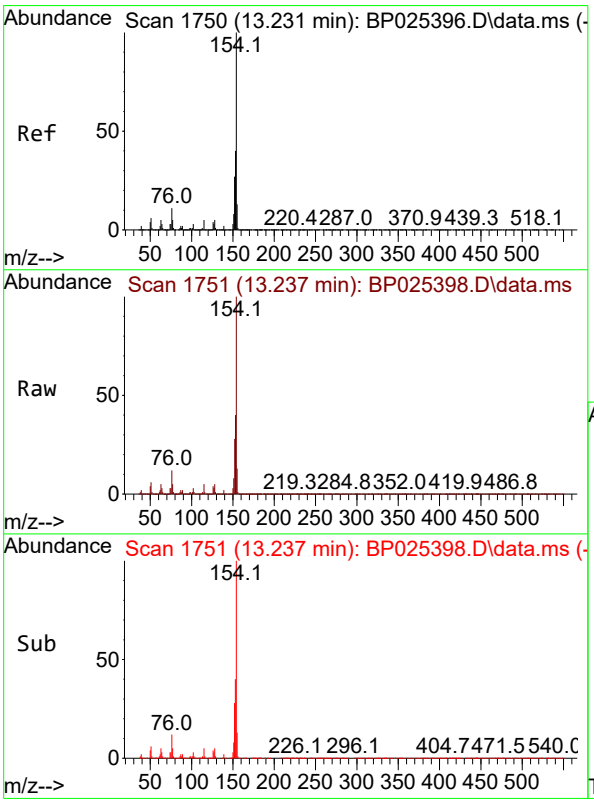
#45
2-Fluorobiphenyl
Concen: 117.656 ng
RT: 13.025 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion:172 Resp: 3963871

Ion	Ratio	Lower	Upper
172	100		
171	35.3	28.1	42.1
170	23.5	18.6	28.0

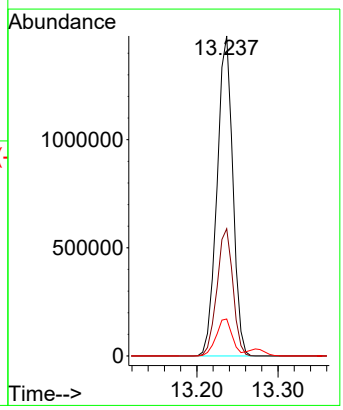


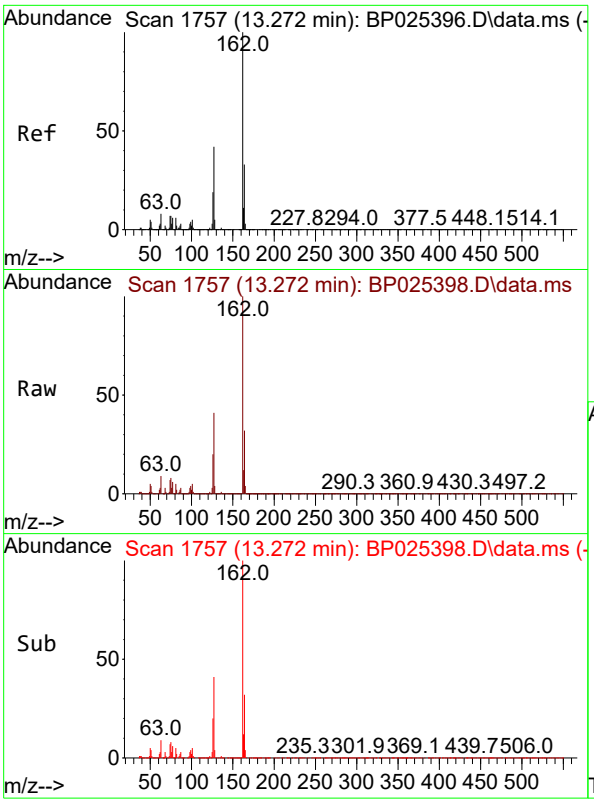


#46
1,1'-Biphenyl
Concen: 59.695 ng
RT: 13.237 min Scan# 1751
Delta R.T. 0.006 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Tgt Ion:154 Resp: 1996186

Ion	Ratio	Lower	Upper
154	100		
153	39.8	19.5	59.5
76	11.6	0.0	31.1



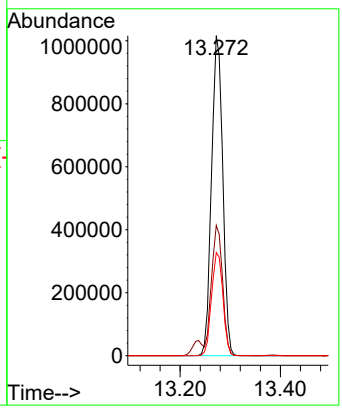


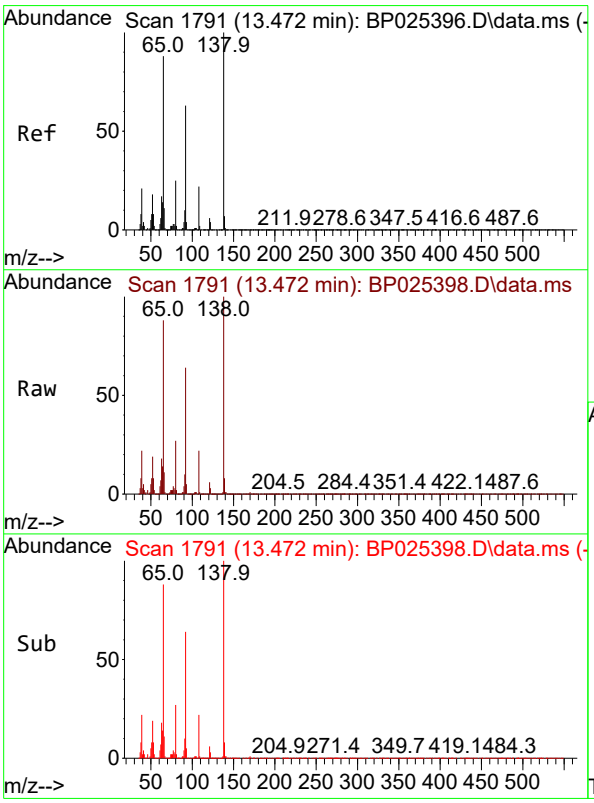
#47
2-Chloronaphthalene
Concen: 60.600 ng
RT: 13.272 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion:162 Resp: 1577577

Ion	Ratio	Lower	Upper
162	100		
127	40.7	33.4	50.2
164	32.2	26.2	39.2

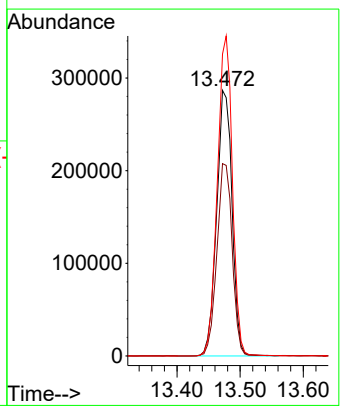


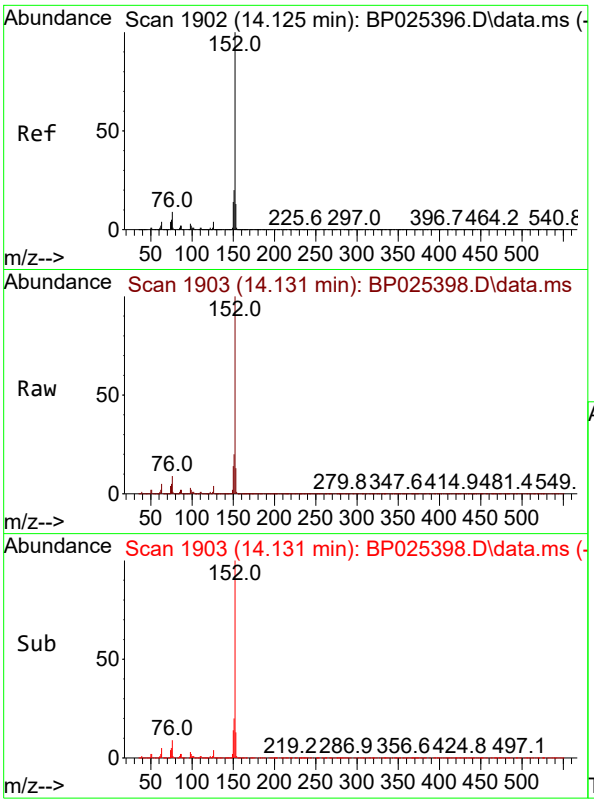


#48
2-Nitroaniline
Concen: 63.996 ng
RT: 13.472 min Scan# 1791
Delta R.T. 0.000 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Tgt Ion: 65 Resp: 485429

Ion	Ratio	Lower	Upper
65	100		
92	72.4	57.6	86.4
138	113.7	91.0	136.6



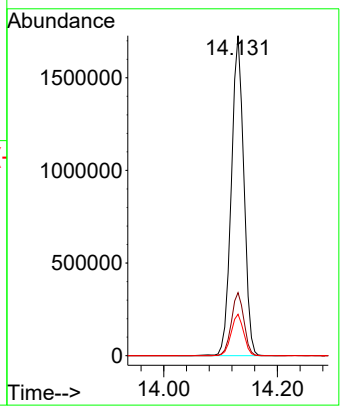


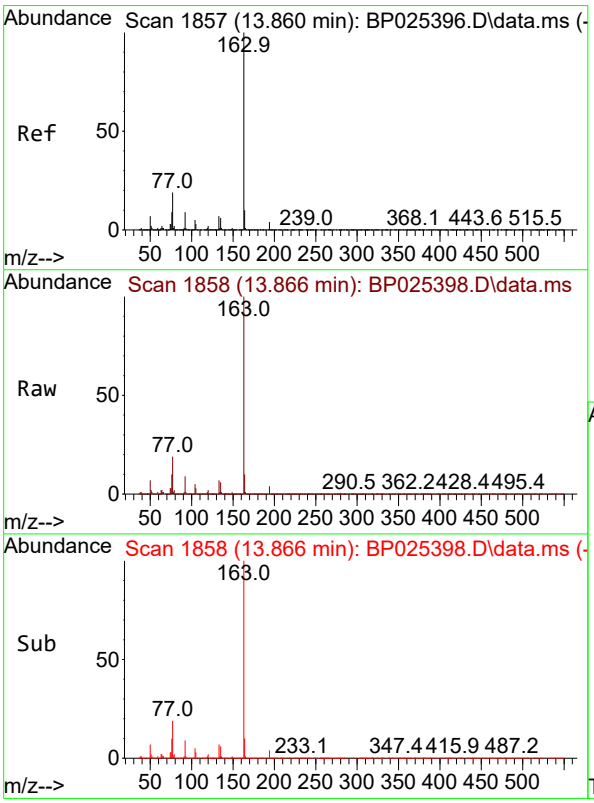
#49
Acenaphthylene
Concen: 61.147 ng
RT: 14.131 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion:152 Resp: 2634005

Ion	Ratio	Lower	Upper
152	100		
151	19.7	16.0	24.0
153	13.0	10.6	15.8

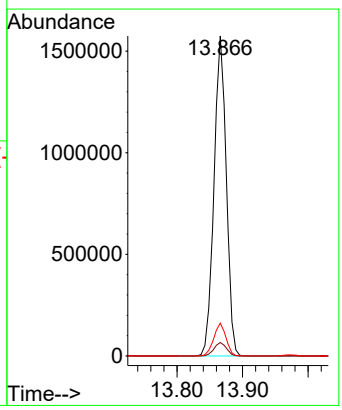


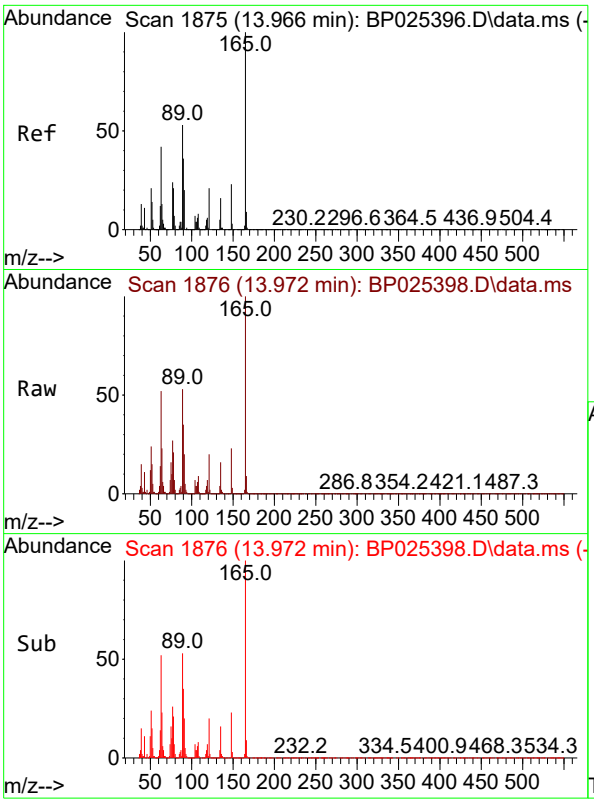


#50
Dimethylphthalate
Concen: 60.572 ng
RT: 13.866 min Scan# 1858
Delta R.T. 0.006 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Tgt Ion:163 Resp: 2042324

Ion	Ratio	Lower	Upper
163	100		
194	4.2	3.4	5.0
164	10.3	7.9	11.9



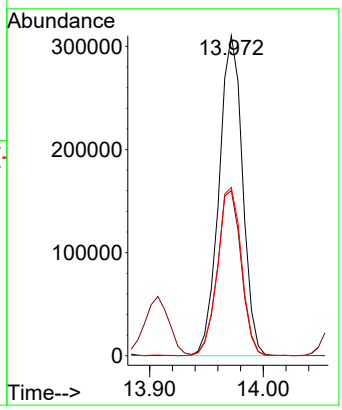


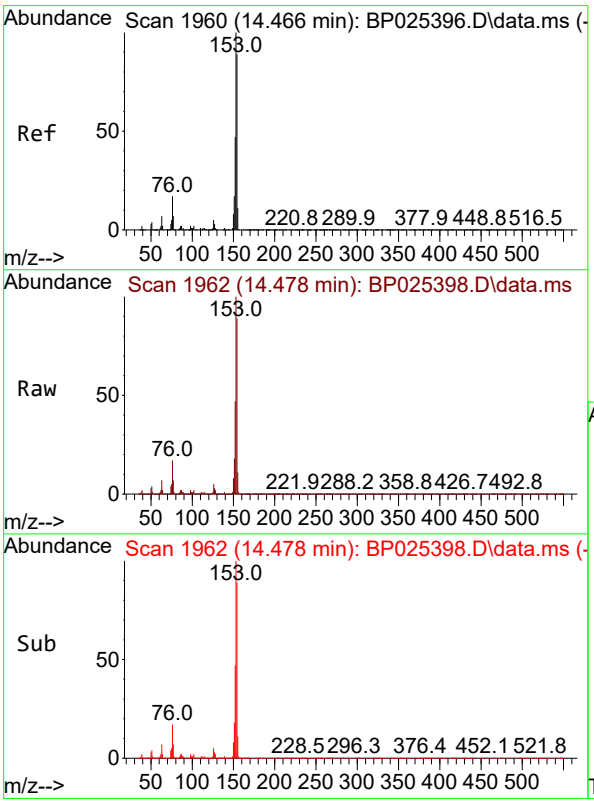
#51
2,6-Dinitrotoluene
Concen: 62.831 ng
RT: 13.972 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion:165 Resp: 446520

Ion	Ratio	Lower	Upper
165	100		
63	51.6	40.9	61.3
89	52.5	42.1	63.1

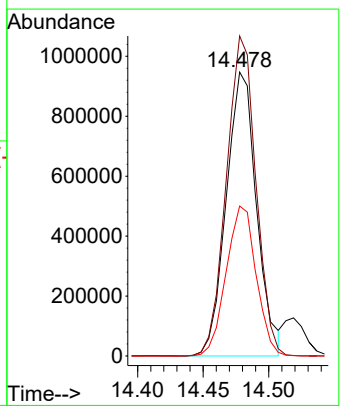


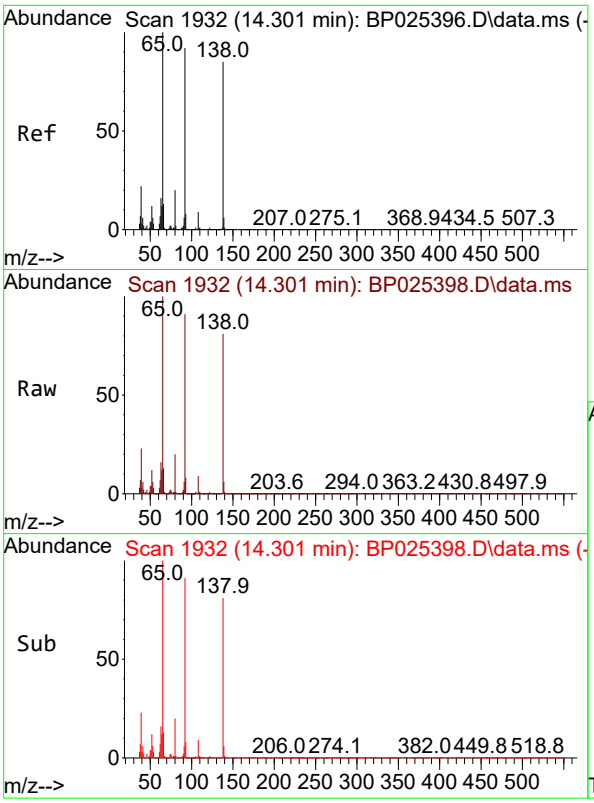


#52
Acenaphthene
Concen: 60.399 ng
RT: 14.478 min Scan# 1962
Delta R.T. 0.012 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Tgt Ion:154 Resp: 1527191

Ion	Ratio	Lower	Upper
154	100		
153	112.7	90.2	135.2
152	52.8	42.1	63.1



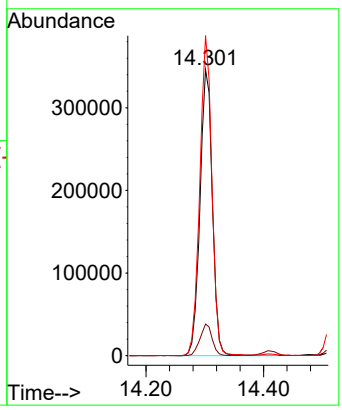


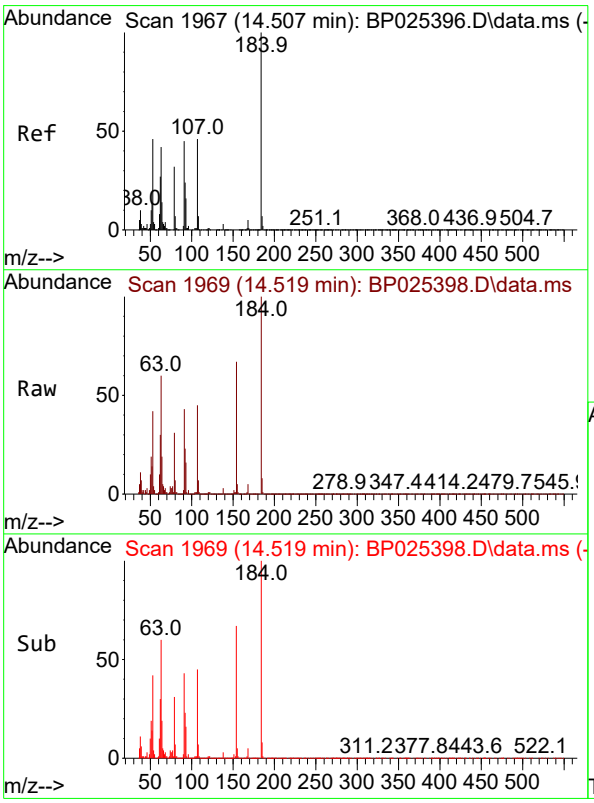
#53
3-Nitroaniline
Concen: 63.331 ng
RT: 14.301 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion:138 Resp: 506373

Ion	Ratio	Lower	Upper
138	100		
108	11.1	8.3	12.5
92	111.9	86.2	129.2

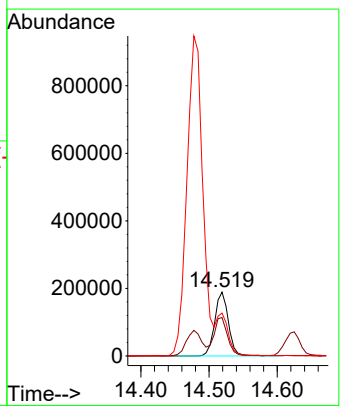


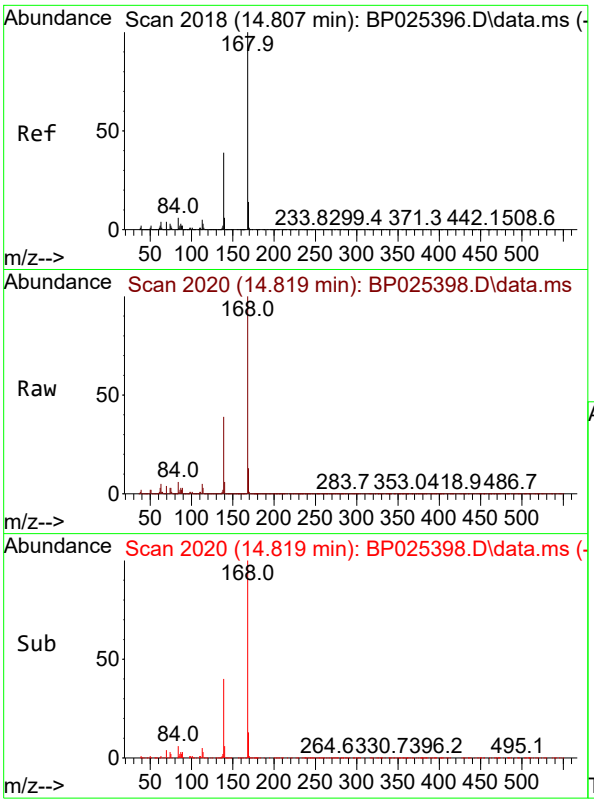


#54
2,4-Dinitrophenol
Concen: 69.849 ng
RT: 14.519 min Scan# 1969
Delta R.T. 0.012 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Tgt Ion:184 Resp: 265089

Ion	Ratio	Lower	Upper
184	100		
63	60.1	49.4	74.2
154	67.3	54.6	82.0



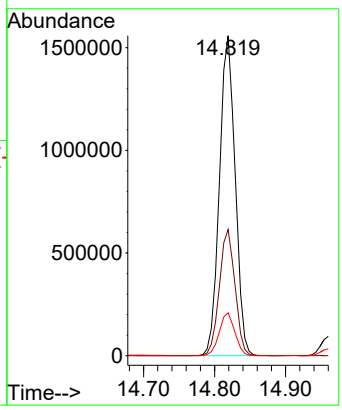


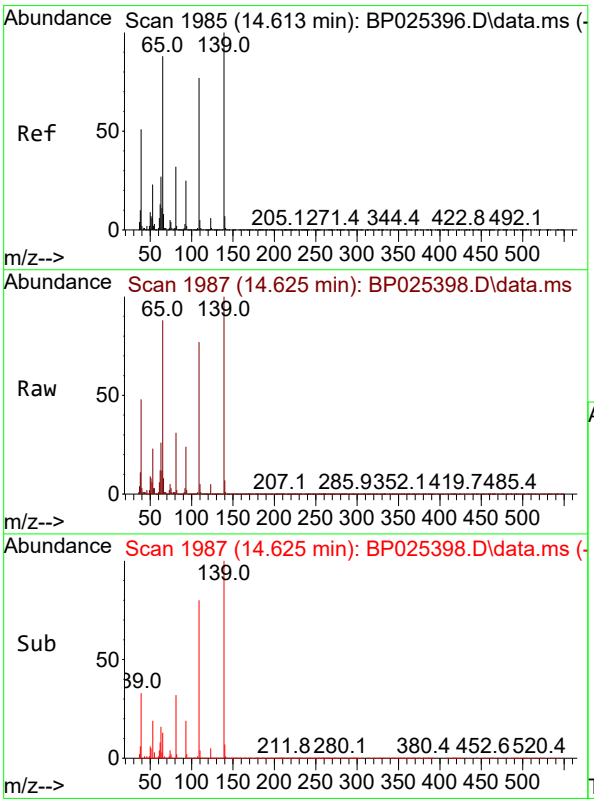
#55
Dibenzofuran
Concen: 59.734 ng
RT: 14.819 min Scan# 2
Delta R.T. 0.012 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion:168 Resp: 2387933

Ion	Ratio	Lower	Upper
168	100		
139	39.5	31.5	47.3
169	13.4	10.9	16.3

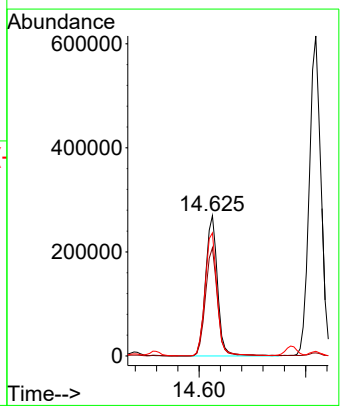


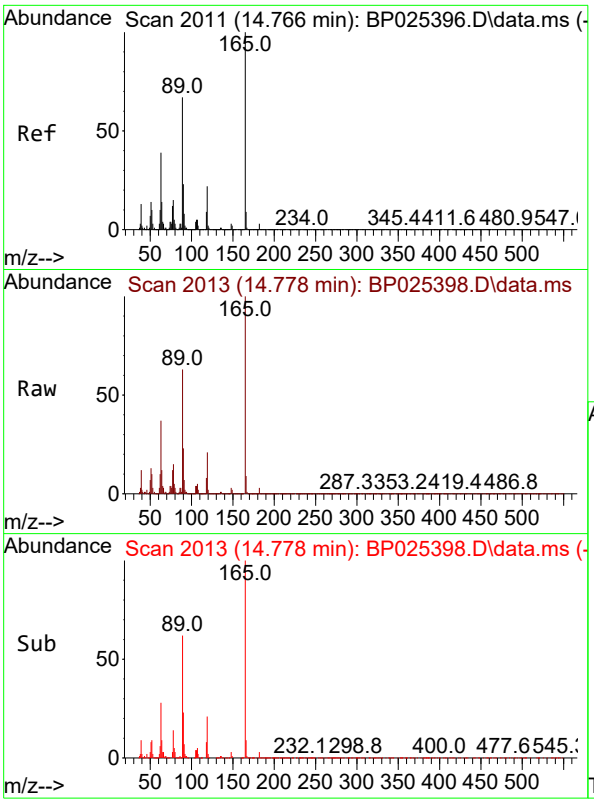


#56
4-Nitrophenol
Concen: 63.893 ng
RT: 14.625 min Scan# 1987
Delta R.T. 0.012 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Tgt Ion:139 Resp: 419801

Ion	Ratio	Lower	Upper
139	100		
109	77.0	56.6	96.6
65	87.6	68.2	108.2



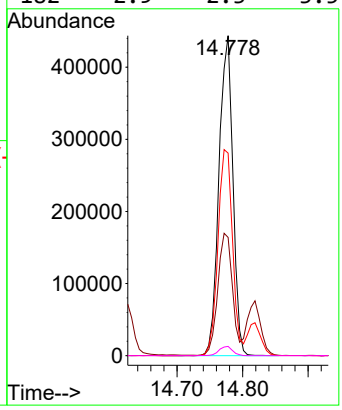


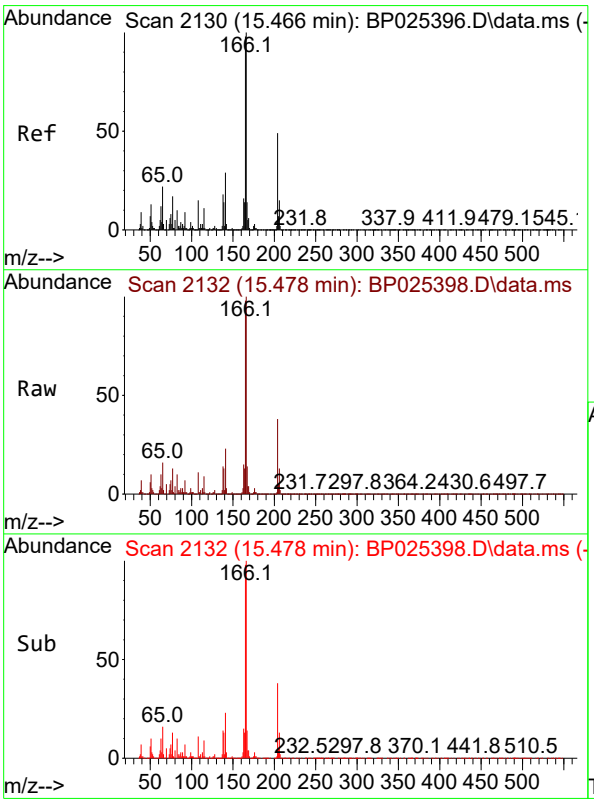
#57
2,4-Dinitrotoluene
Concen: 64.112 ng
RT: 14.778 min Scan# 2
Delta R.T. 0.012 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion:165 Resp: 650054

Ion	Ratio	Lower	Upper
165	100		
63	37.0	31.4	47.2
89	63.3	53.3	79.9
182	2.9	2.3	3.5

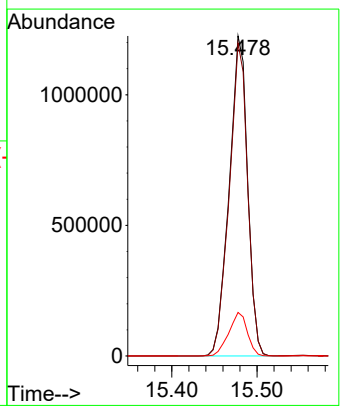


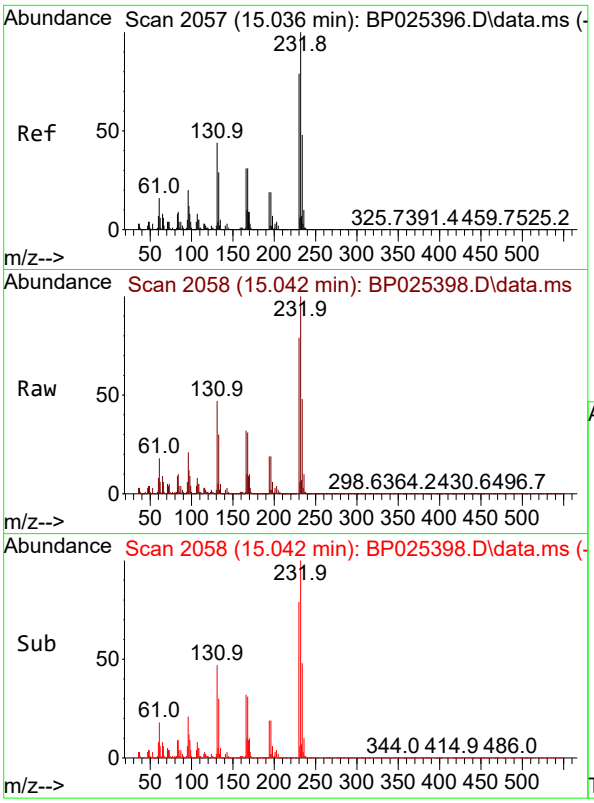


#58
Fluorene
Concen: 58.236 ng
RT: 15.478 min Scan# 2132
Delta R.T. 0.012 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Tgt Ion:166 Resp: 1836972

Ion	Ratio	Lower	Upper
166	100		
165	97.8	78.8	118.2
167	13.6	11.0	16.4



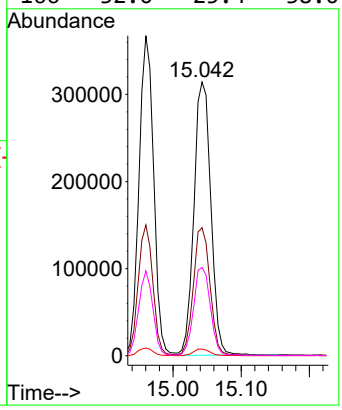


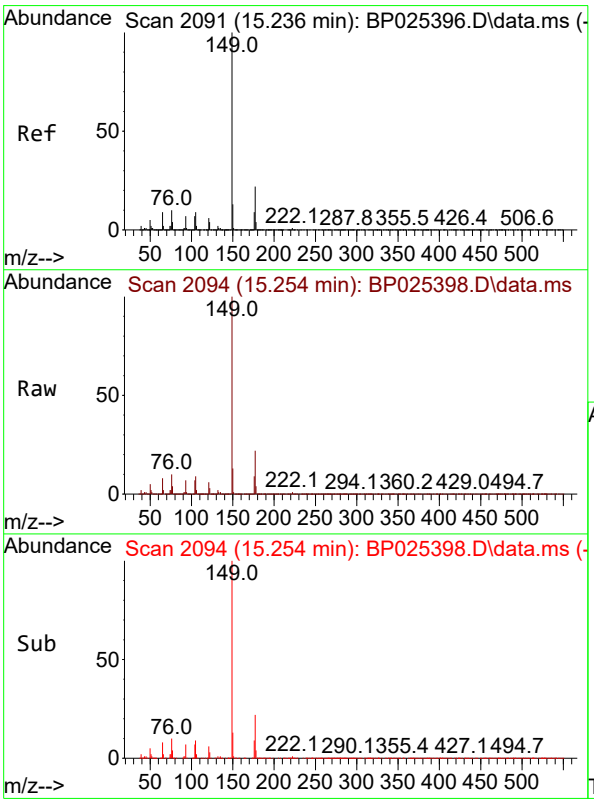
#59
2,3,4,6-Tetrachlorophenol
Concen: 62.307 ng
RT: 15.042 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion:232 Resp: 541317

Ion	Ratio	Lower	Upper
232	100		
131	46.2	37.0	55.6
130	2.4	1.9	2.9
166	32.0	25.4	38.0

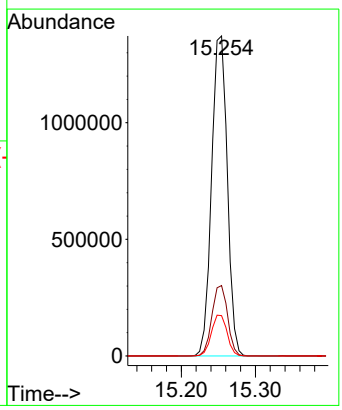


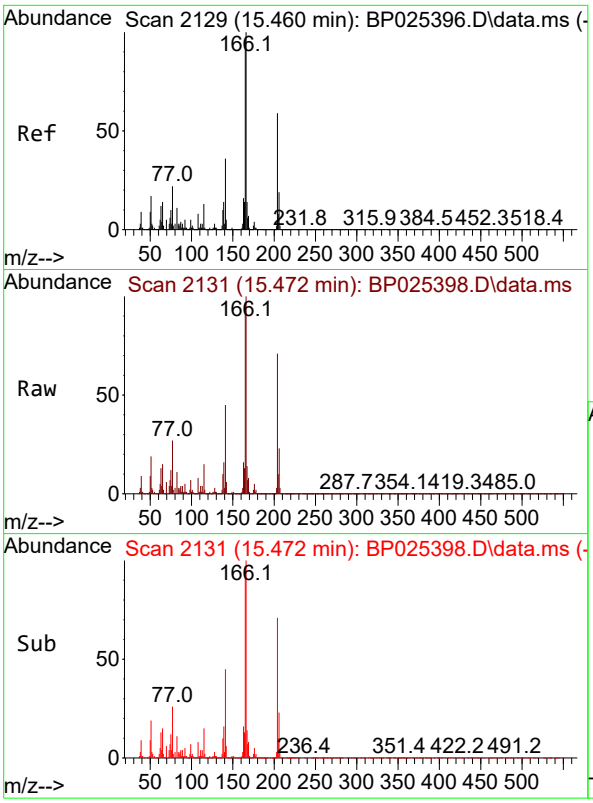


#60
Diethylphthalate
Concen: 58.840 ng
RT: 15.254 min Scan# 2094
Delta R.T. 0.018 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Tgt Ion:149 Resp: 2015888

Ion	Ratio	Lower	Upper
149	100		
177	22.0	17.3	25.9
150	12.6	10.3	15.5



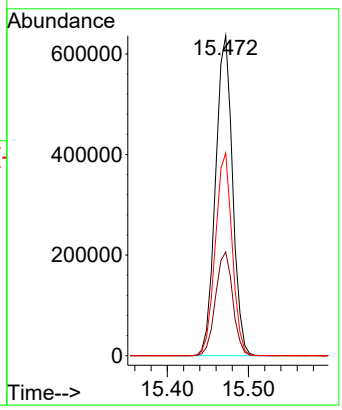


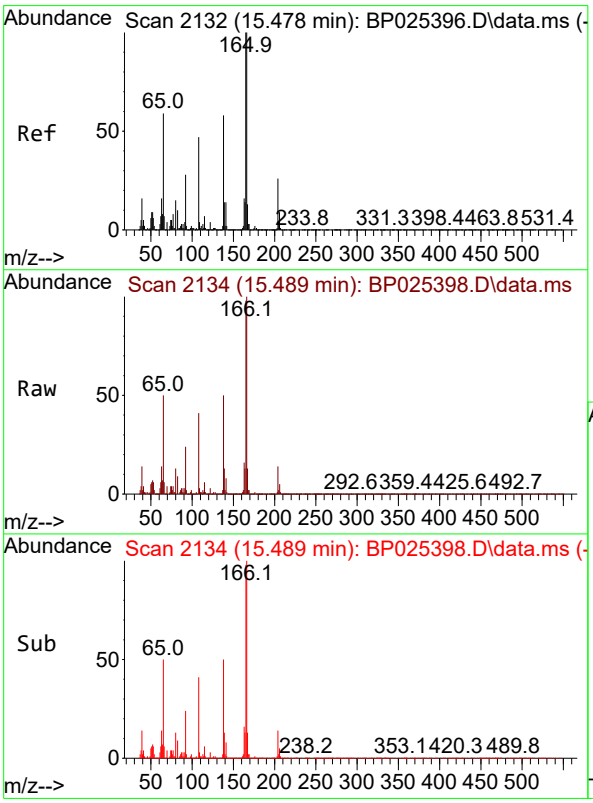
#61
4-Chlorophenyl-phenylether
Concen: 59.044 ng
RT: 15.472 min Scan# 21
Delta R.T. 0.012 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion:204 Resp: 926280

Ion	Ratio	Lower	Upper
204	100		
206	32.4	25.8	38.8
141	63.3	49.4	74.2

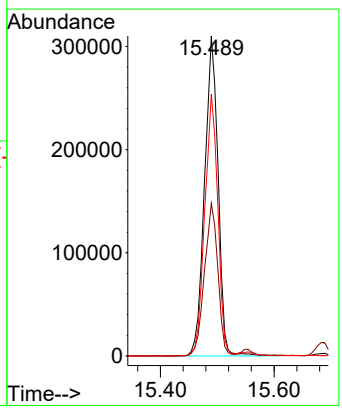


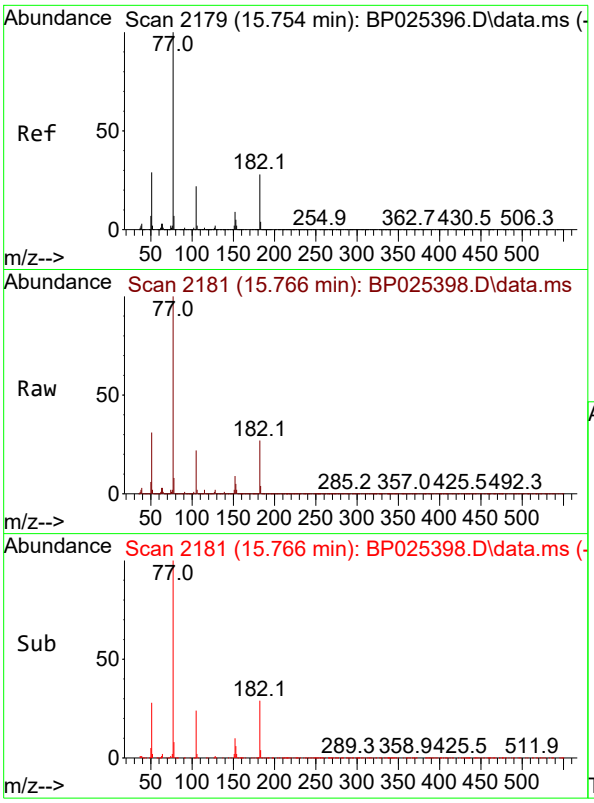


#62
4-Nitroaniline
Concen: 62.272 ng
RT: 15.489 min Scan# 2134
Delta R.T. 0.012 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Tgt Ion:138 Resp: 510438

Ion	Ratio	Lower	Upper
138	100		
92	47.7	29.1	69.1
108	81.8	61.5	101.5



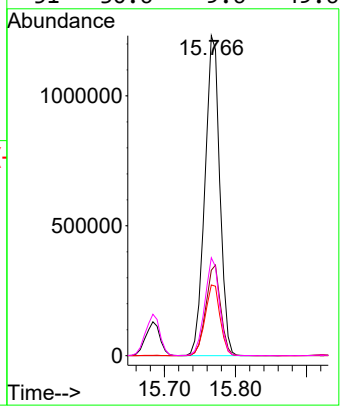


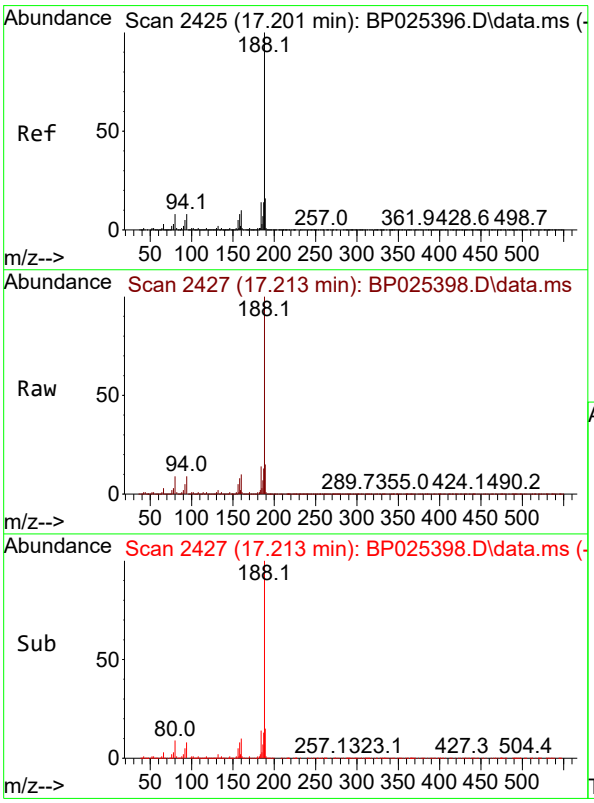
#63
Azobenzene
Concen: 61.242 ng
RT: 15.766 min Scan# 21
Delta R.T. 0.012 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion: 77 Resp: 1796580

Ion	Ratio	Lower	Upper
77	100		
182	26.7	7.5	47.5
105	22.1	2.1	42.1
51	30.6	9.6	49.6

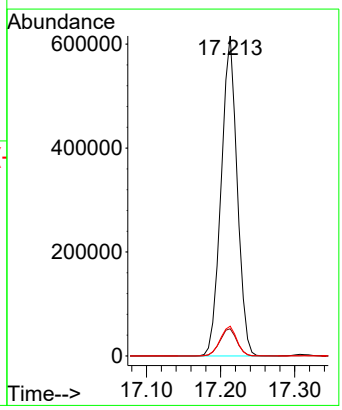


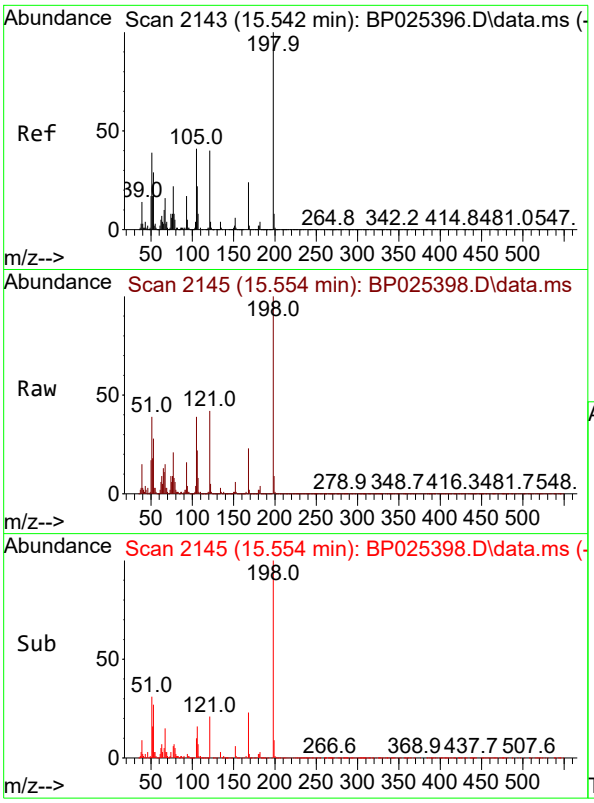


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.213 min Scan# 2427
Delta R.T. 0.012 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Tgt Ion:188 Resp: 923402

Ion	Ratio	Lower	Upper
188	100		
94	8.5	6.6	10.0
80	9.3	6.7	10.1



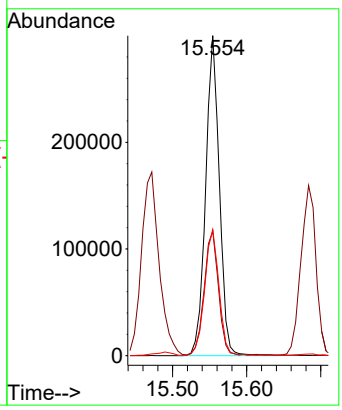


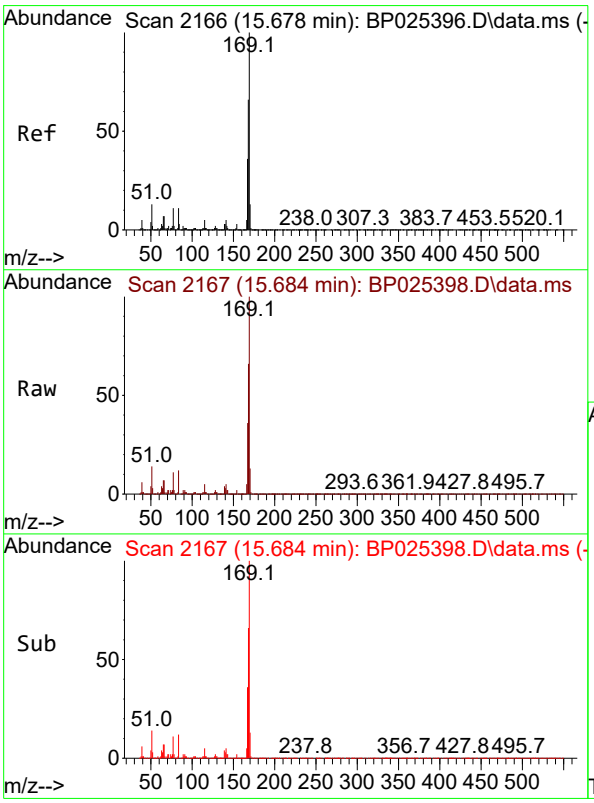
#65
4,6-Dinitro-2-methylphenol
Concen: 67.038 ng
RT: 15.554 min Scan# 21
Delta R.T. 0.012 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion:198 Resp: 385873

Ion	Ratio	Lower	Upper
198	100		
51	38.9	19.6	59.6
105	39.4	20.9	60.9

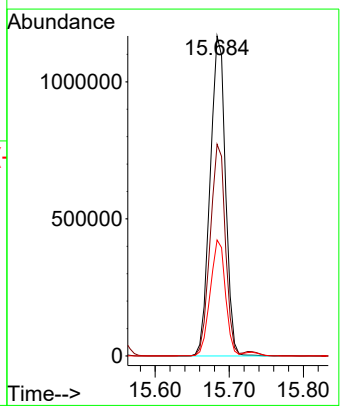


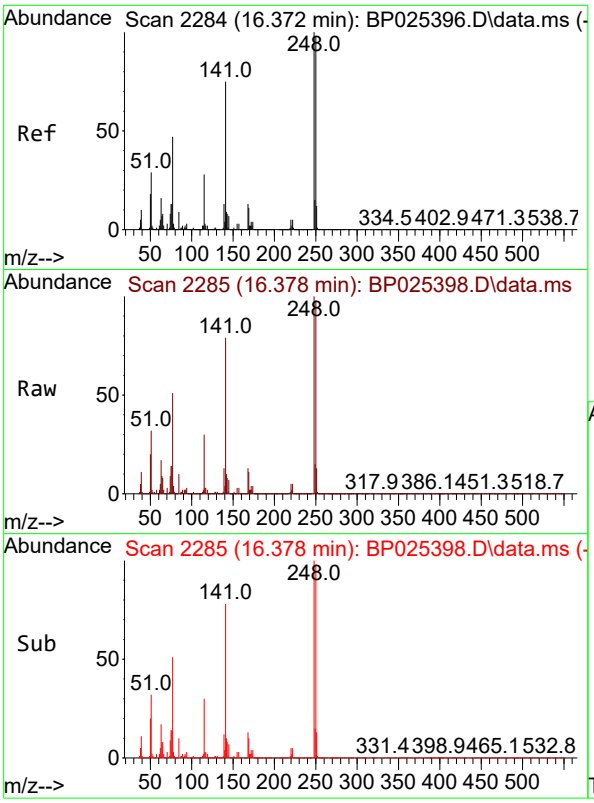


#66
n-Nitrosodiphenylamine
Concen: 59.478 ng
RT: 15.684 min Scan# 2167
Delta R.T. 0.006 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Tgt Ion:169 Resp: 1674806

Ion	Ratio	Lower	Upper
169	100		
168	66.1	53.2	79.8
167	36.3	28.7	43.1



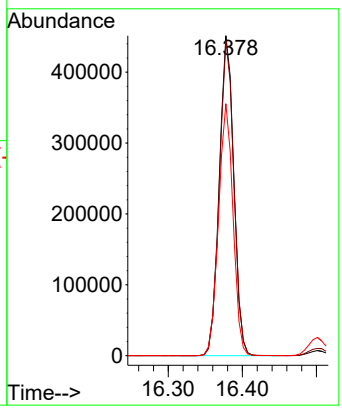


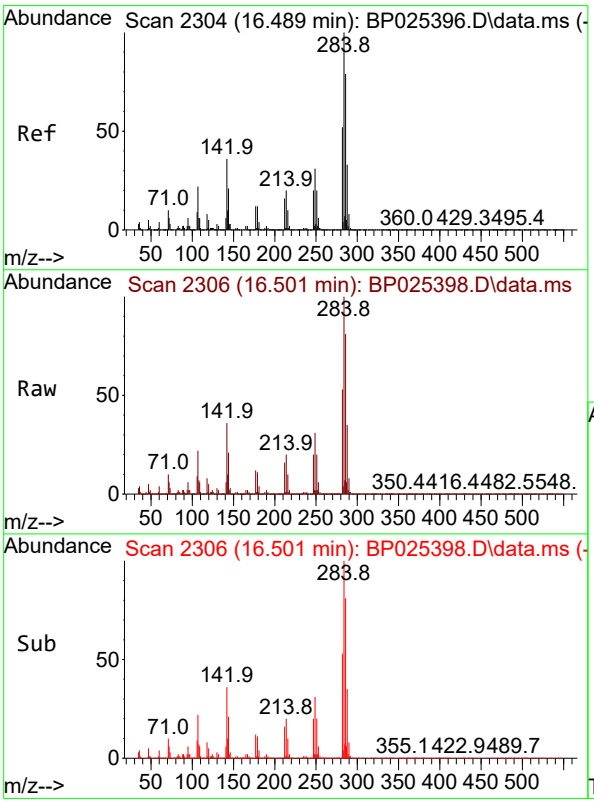
#67
4-Bromophenyl-phenylether
Concen: 60.731 ng
RT: 16.378 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion:248 Resp: 616767

Ion	Ratio	Lower	Upper
248	100		
250	98.4	78.2	117.2
141	78.7	59.6	89.4

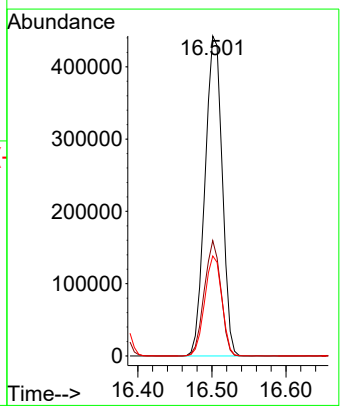


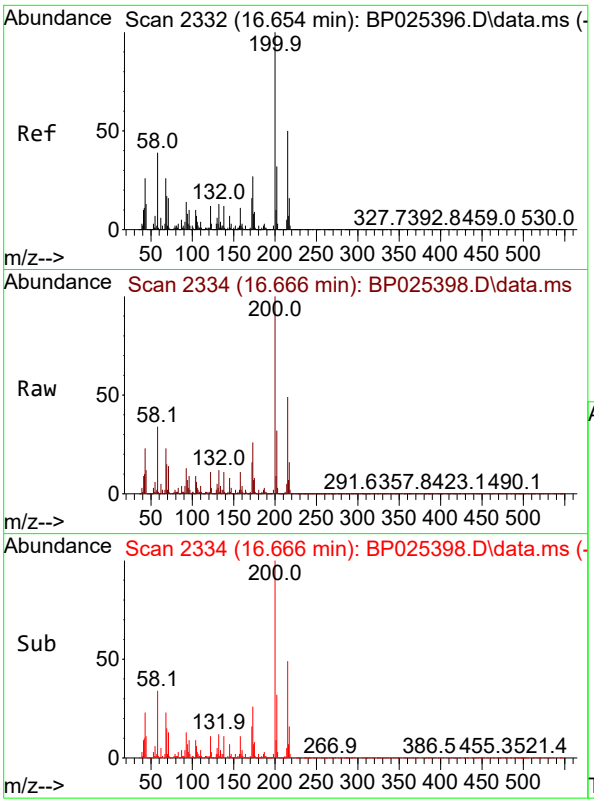


#68
Hexachlorobenzene
Concen: 60.461 ng
RT: 16.501 min Scan# 2306
Delta R.T. 0.012 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Tgt Ion:284 Resp: 711778

Ion	Ratio	Lower	Upper
284	100		
142	36.1	29.1	43.7
249	31.3	25.0	37.4



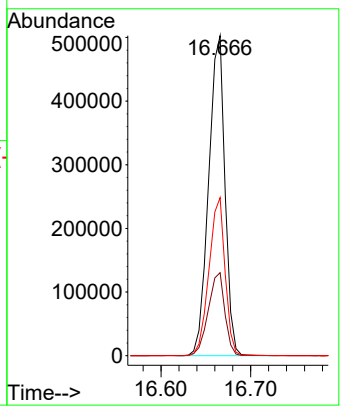


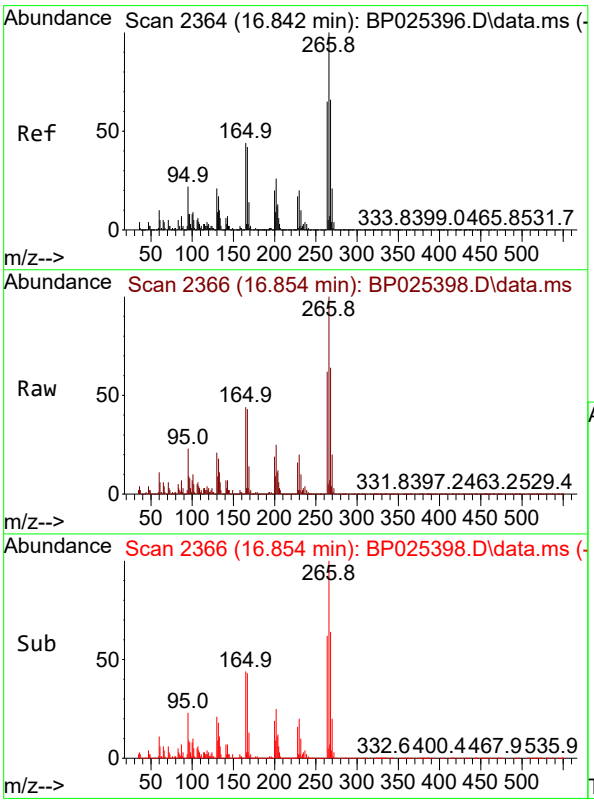
#69
Atrazine
Concen: 60.063 ng
RT: 16.666 min Scan# 2
Delta R.T. 0.012 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion:200 Resp: 633381

Ion	Ratio	Lower	Upper
200	100		
173	26.0	6.7	46.7
215	49.4	29.7	69.7

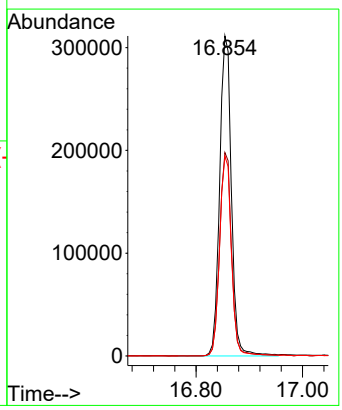


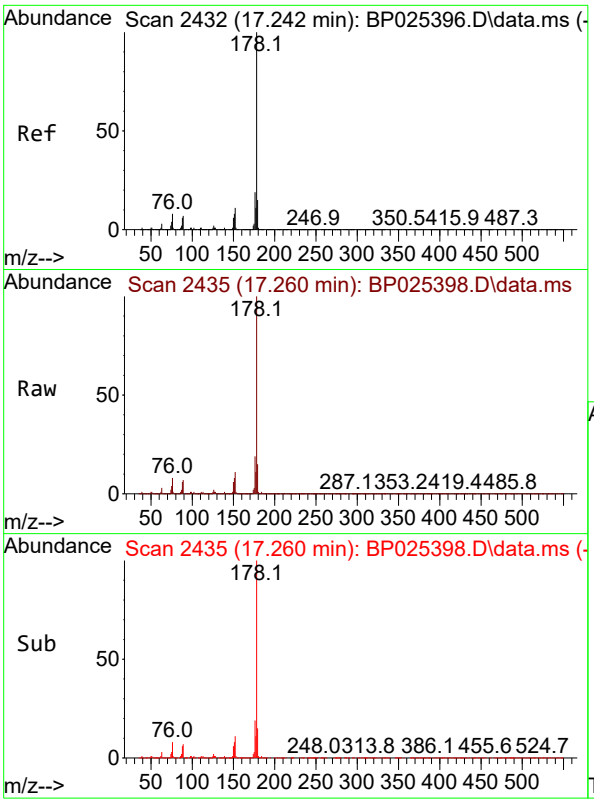


#70
Pentachlorophenol
Concen: 63.820 ng
RT: 16.854 min Scan# 2366
Delta R.T. 0.012 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Tgt Ion:266 Resp: 474276

Ion	Ratio	Lower	Upper
266	100		
268	63.5	52.6	79.0
264	62.4	52.0	78.0



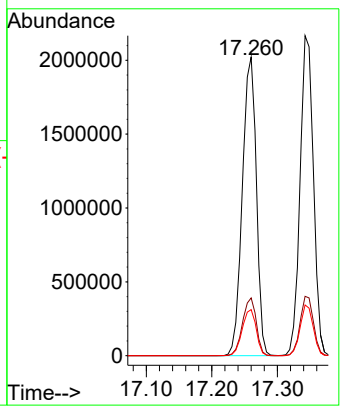


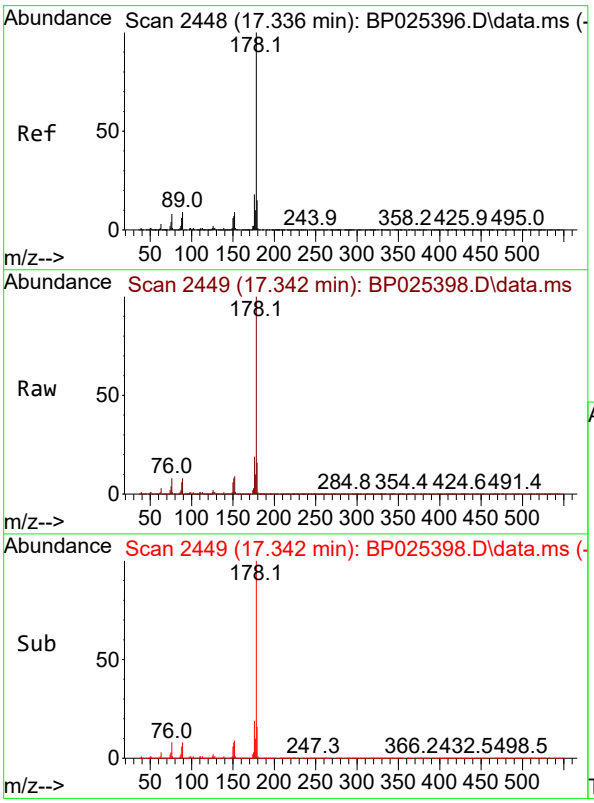
#71
Phenanthrene
Concen: 59.263 ng
RT: 17.260 min Scan# 24
Delta R.T. 0.018 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion:178 Resp: 3006132

Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.5	23.3
179	15.4	12.2	18.4

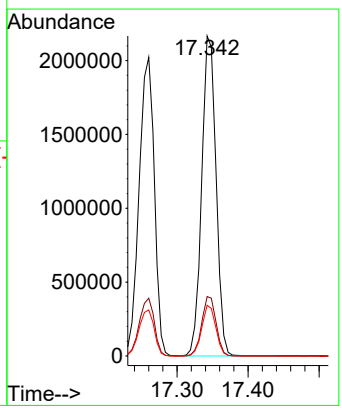


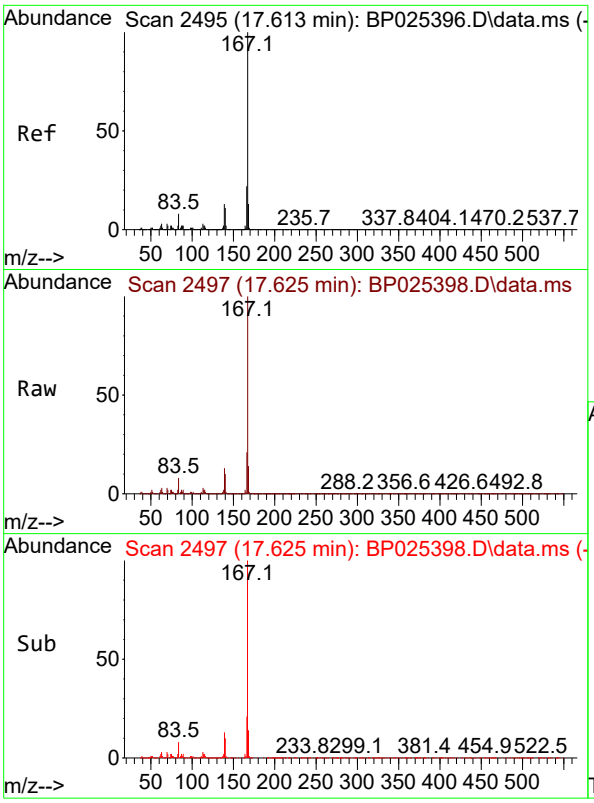


#72
Anthracene
Concen: 58.895 ng
RT: 17.342 min Scan# 2449
Delta R.T. 0.006 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Tgt Ion:178 Resp: 3050794

Ion	Ratio	Lower	Upper
178	100		
176	18.6	14.7	22.1
179	15.9	12.2	18.2



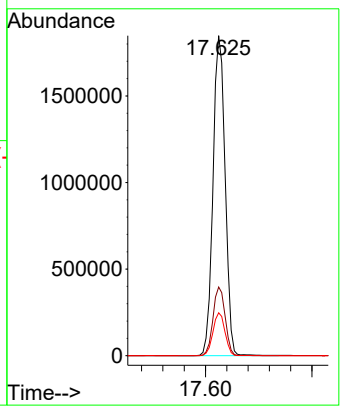


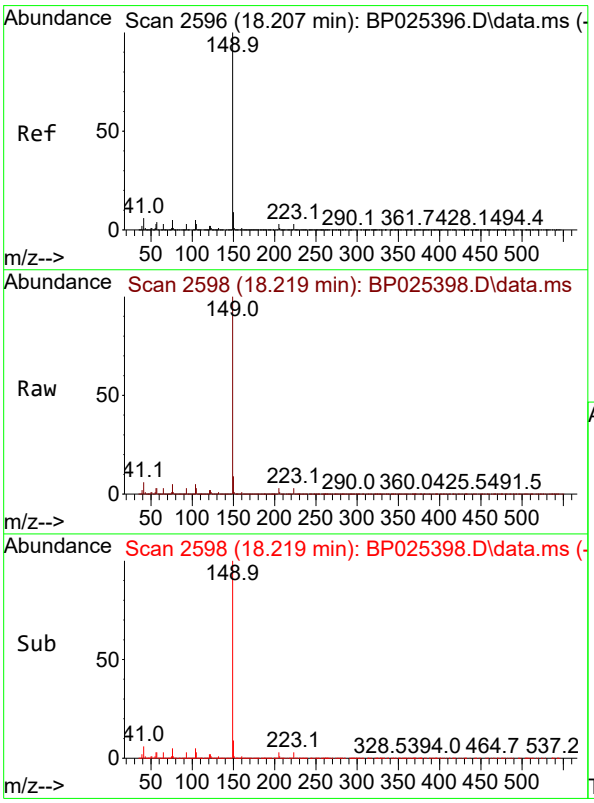
#73
Carbazole
Concen: 59.776 ng
RT: 17.625 min Scan# 24
Delta R.T. 0.012 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion:167 Resp: 2916606

Ion	Ratio	Lower	Upper
167	100		
166	21.4	17.5	26.3
139	13.4	10.6	16.0

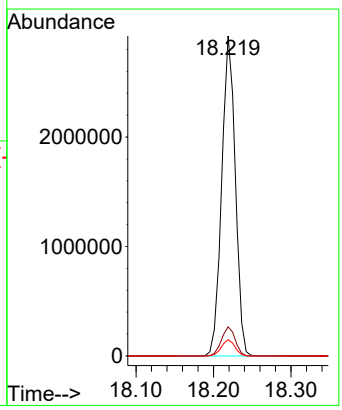


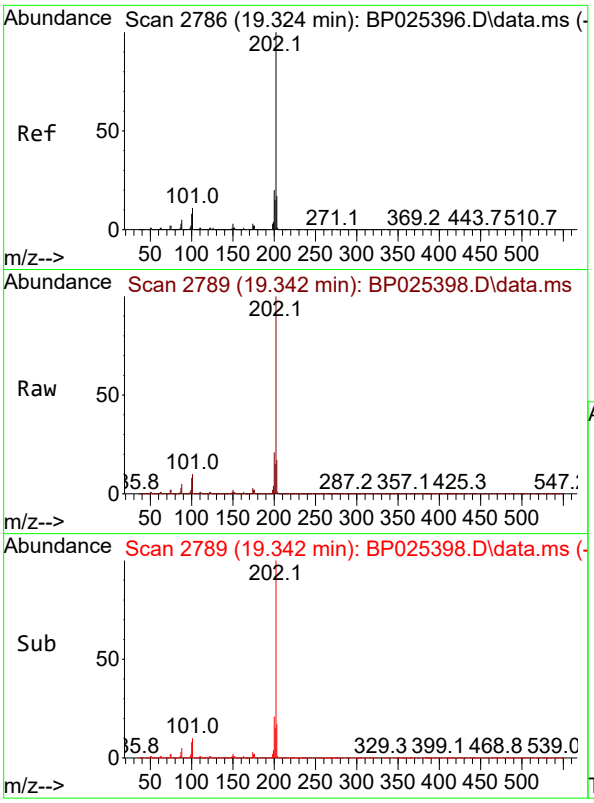


#74
Di-n-butylphthalate
Concen: 59.310 ng
RT: 18.219 min Scan# 2598
Delta R.T. 0.012 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Tgt Ion:149 Resp: 3560427

Ion	Ratio	Lower	Upper
149	100		
150	9.1	7.4	11.0
104	5.1	4.2	6.2



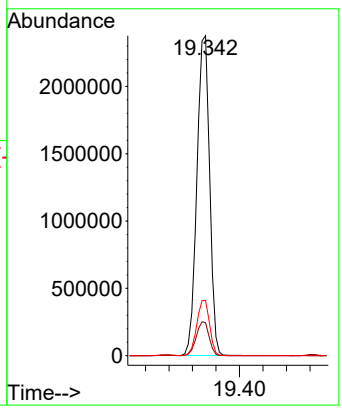


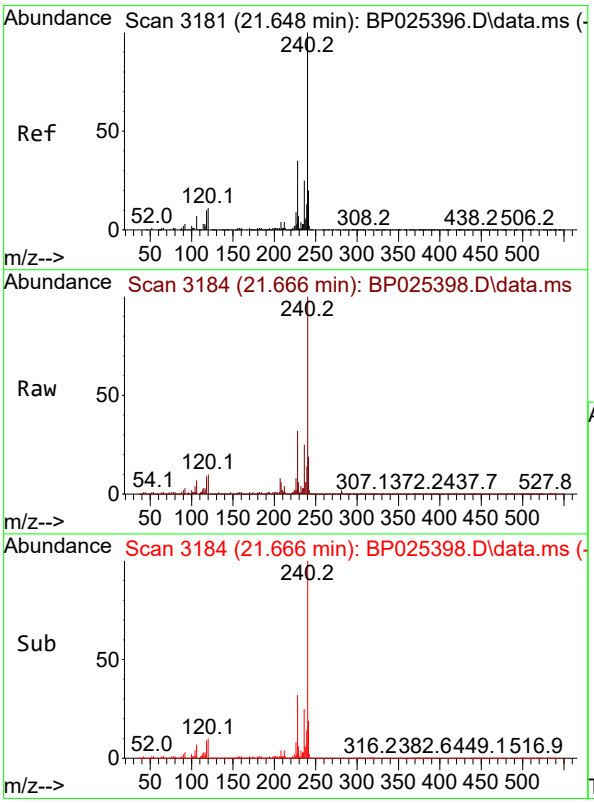
#75
Fluoranthene
Concen: 58.899 ng
RT: 19.342 min Scan# 2
Delta R.T. 0.018 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion:202 Resp: 3563798

Ion	Ratio	Lower	Upper
202	100		
101	10.3	0.0	31.1
203	17.3	0.0	37.3

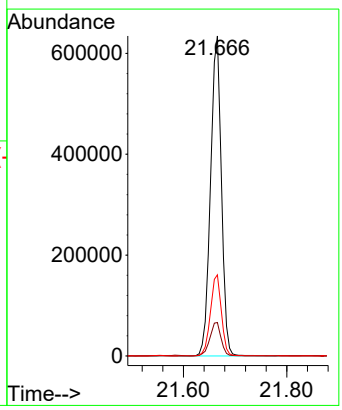


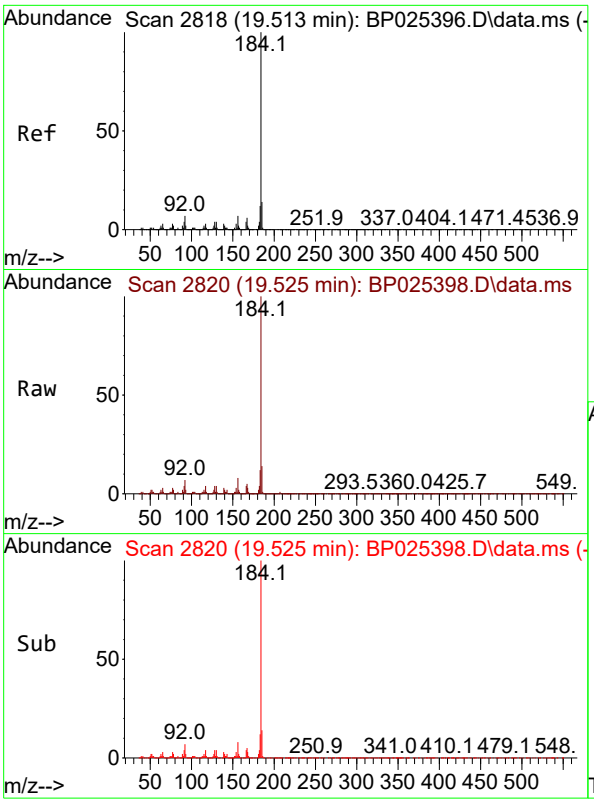


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.666 min Scan# 3184
Delta R.T. 0.018 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Tgt Ion:240 Resp: 926019

Ion	Ratio	Lower	Upper
240	100		
120	10.5	8.9	13.3
236	25.3	19.8	29.8



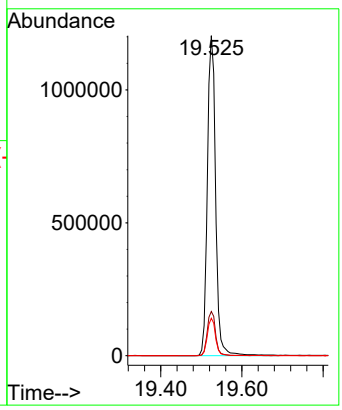


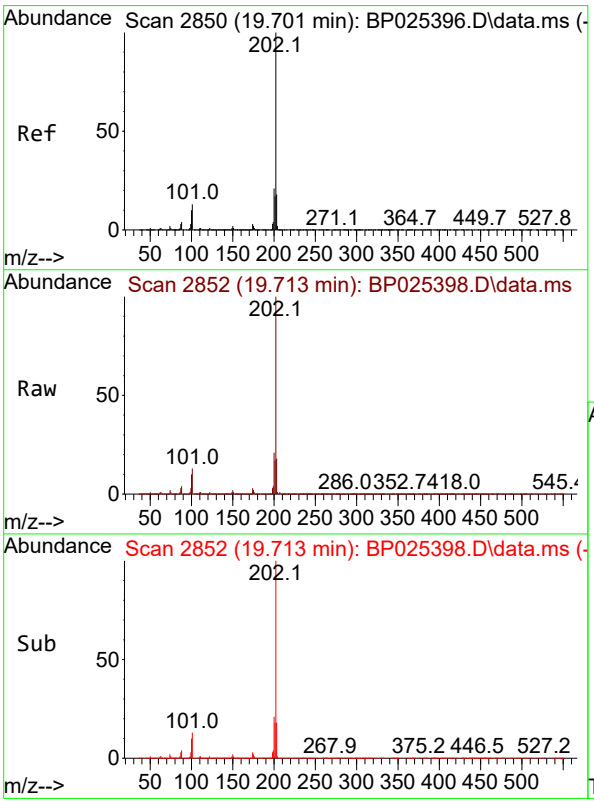
#77
Benzidine
Concen: 53.489 ng
RT: 19.525 min Scan# 2
Delta R.T. 0.012 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion:184 Resp: 1690432

Ion	Ratio	Lower	Upper
184	100		
185	13.8	11.5	17.3
183	11.7	9.4	14.2

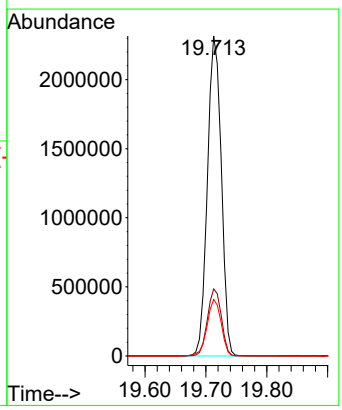


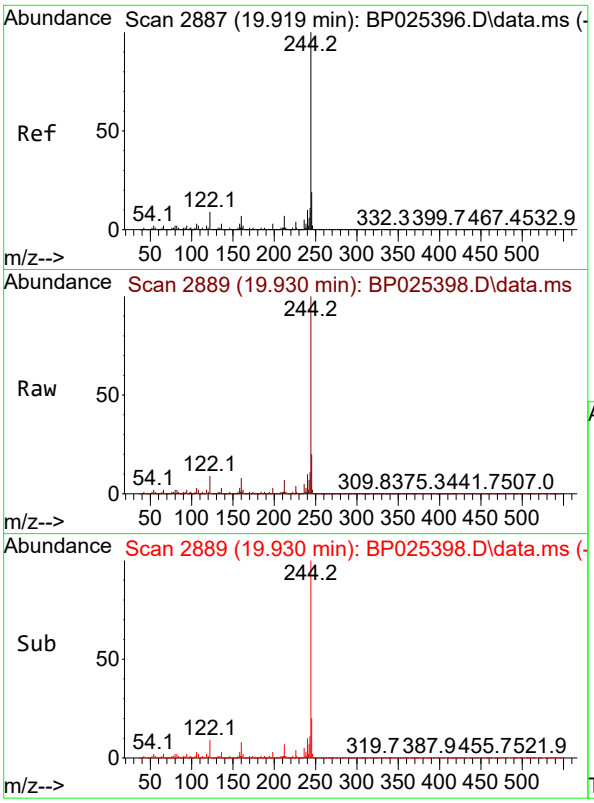


#78
Pyrene
Concen: 60.883 ng
RT: 19.713 min Scan# 2852
Delta R.T. 0.012 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Tgt Ion:202 Resp: 3664453

Ion	Ratio	Lower	Upper
202	100		
200	20.9	16.9	25.3
203	17.7	14.2	21.2



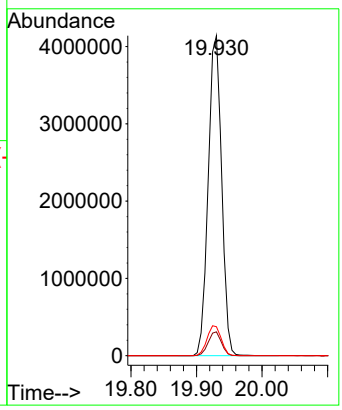


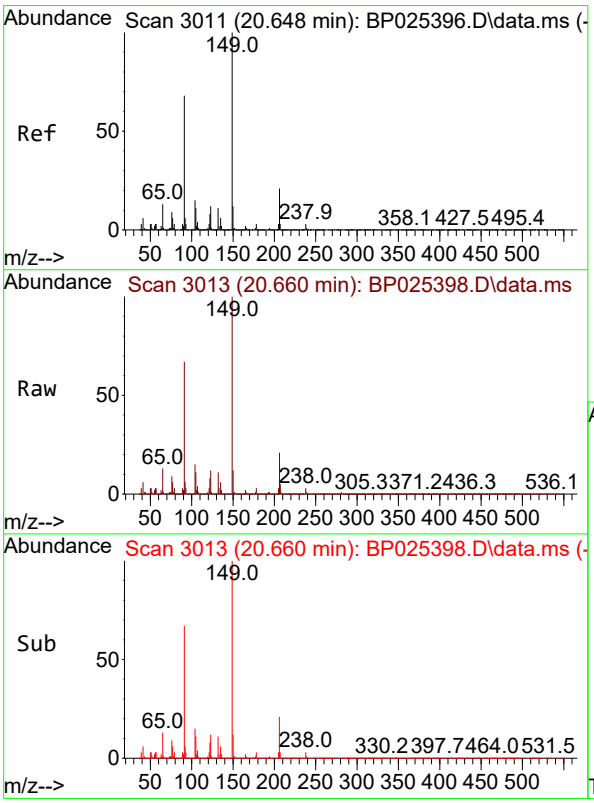
#79
Terphenyl-d14
Concen: 116.490 ng
RT: 19.930 min Scan# 2
Delta R.T. 0.012 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion:244 Resp: 5896004

Ion	Ratio	Lower	Upper
244	100		
212	7.5	5.8	8.6
122	9.0	7.4	11.2

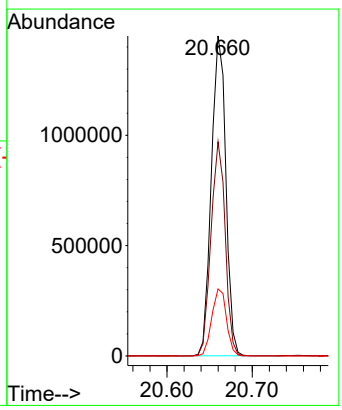


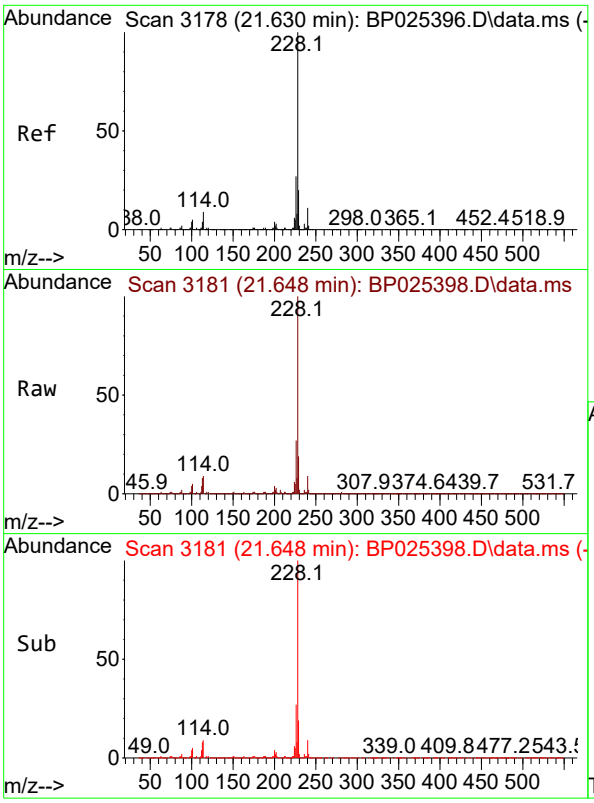


#80
Butylbenzylphthalate
Concen: 62.697 ng
RT: 20.660 min Scan# 3013
Delta R.T. 0.012 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Tgt Ion:149 Resp: 1710246

Ion	Ratio	Lower	Upper
149	100		
91	66.9	54.2	81.2
206	20.9	16.6	24.8



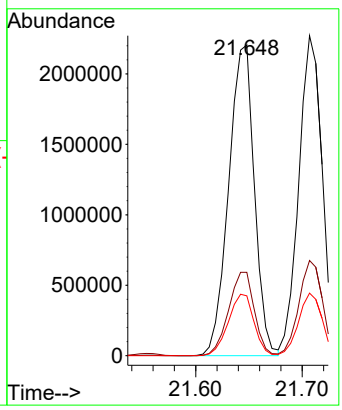


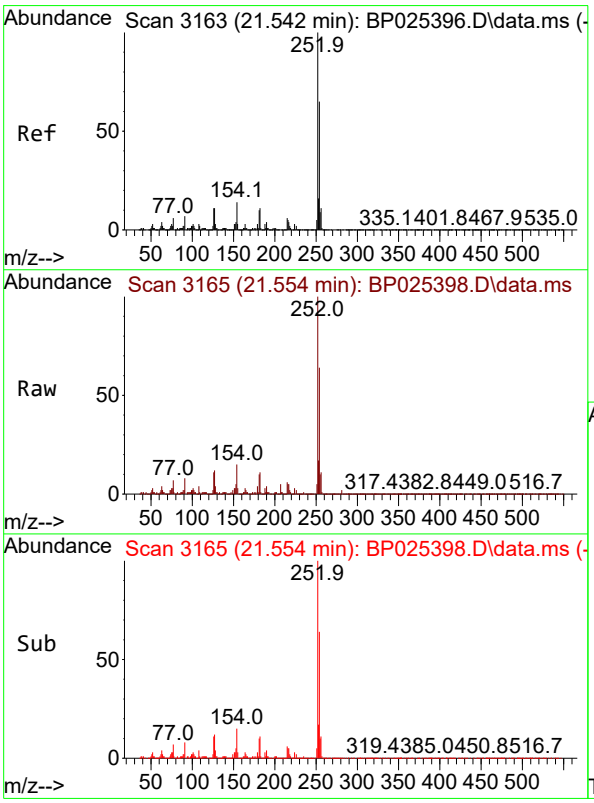
#81
Benzo(a)anthracene
Concen: 60.619 ng
RT: 21.648 min Scan# 3
Delta R.T. 0.018 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion:228 Resp: 3702064

Ion	Ratio	Lower	Upper
228	100		
226	26.8	21.7	32.5
229	19.2	15.6	23.4

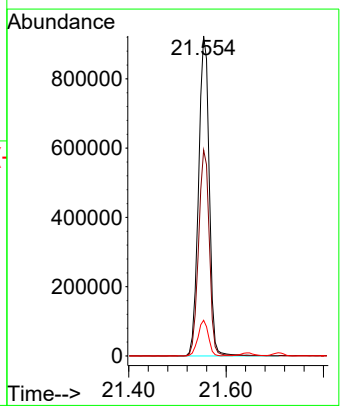


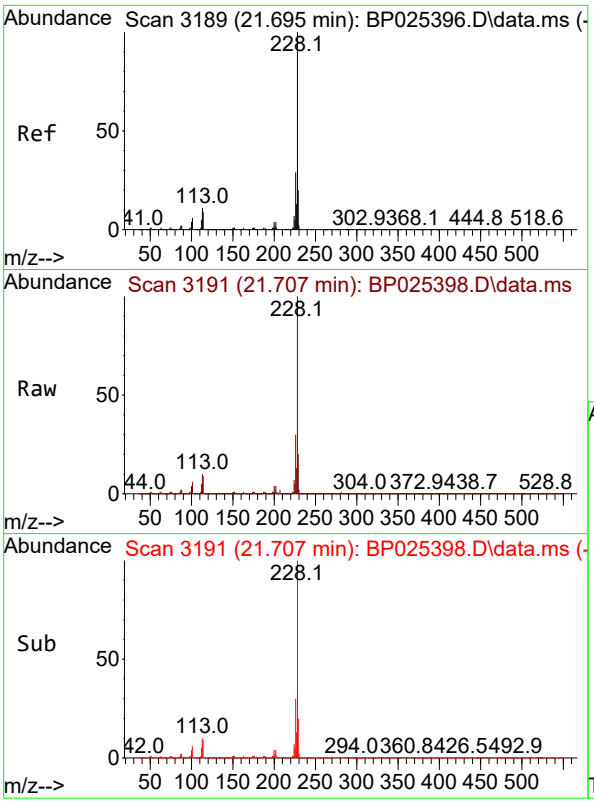


#82
3,3'-Dichlorobenzidine
Concen: 61.062 ng
RT: 21.554 min Scan# 3165
Delta R.T. 0.012 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Tgt Ion:252 Resp: 1405597

Ion	Ratio	Lower	Upper
252	100		
254	64.4	51.8	77.6
126	11.2	9.1	13.7



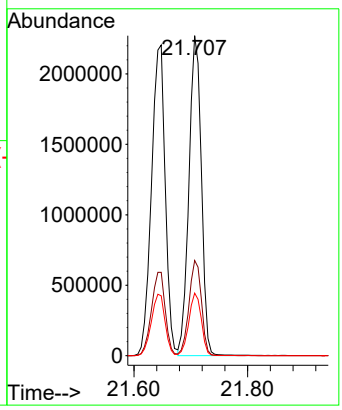


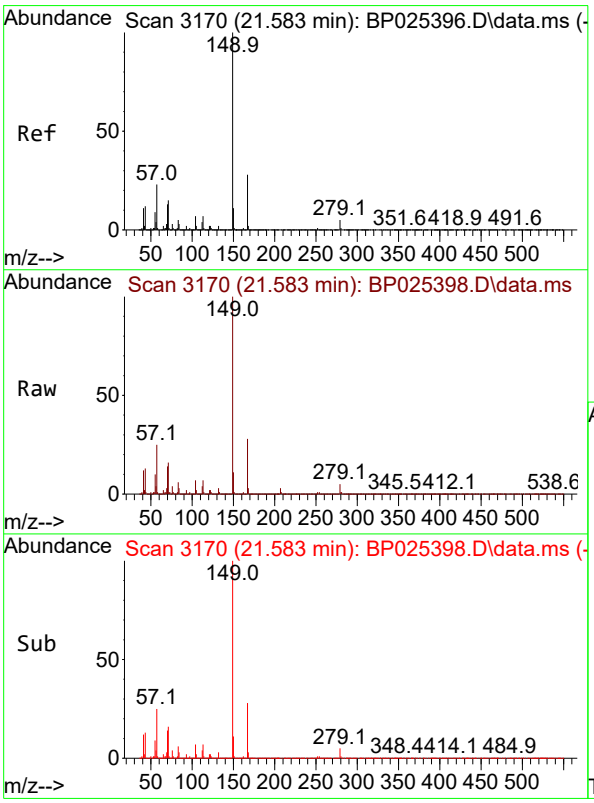
#83
Chrysene
Concen: 60.387 ng
RT: 21.707 min Scan# 3
Delta R.T. 0.012 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion:228 Resp: 3453736

Ion	Ratio	Lower	Upper
228	100		
226	29.7	23.2	34.8
229	19.6	15.6	23.4

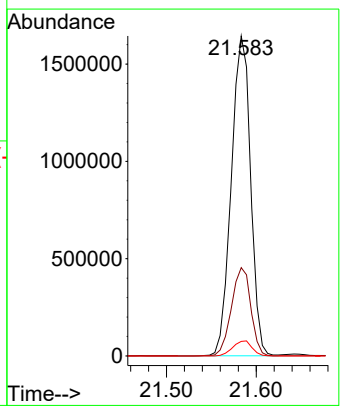


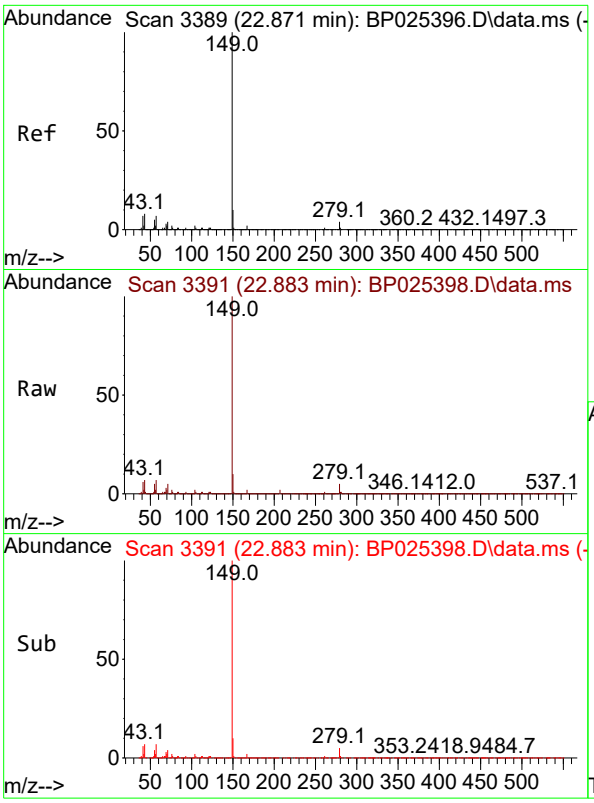


#84
Bis(2-ethylhexyl)phthalate
Concen: 61.038 ng
RT: 21.583 min Scan# 3170
Delta R.T. 0.000 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Tgt Ion:149 Resp: 2450963

Ion	Ratio	Lower	Upper
149	100		
167	27.6	22.1	33.1
279	4.6	3.8	5.6



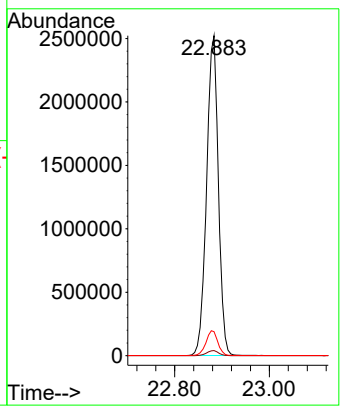


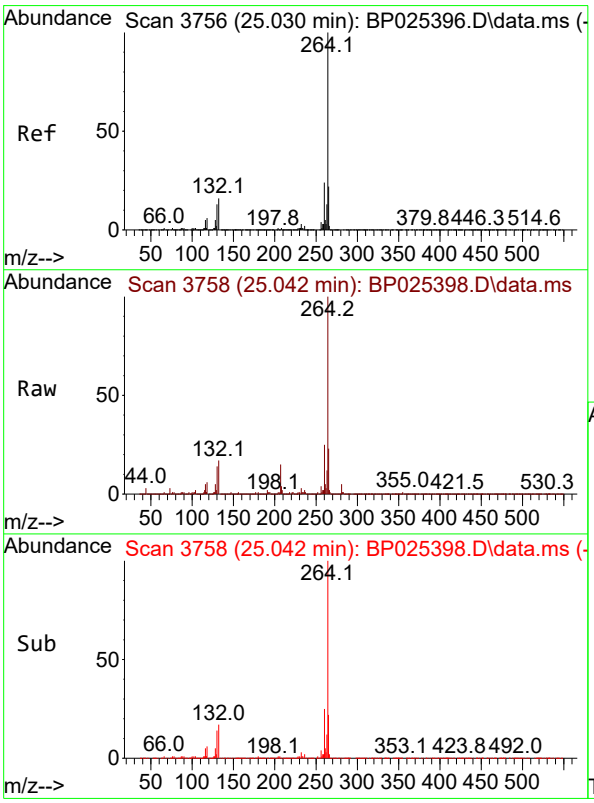
#85
Di-n-octyl phthalate
Concen: 62.869 ng
RT: 22.883 min Scan# 3
Delta R.T. 0.012 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion:149 Resp: 4342211

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	7.8	6.3	9.5

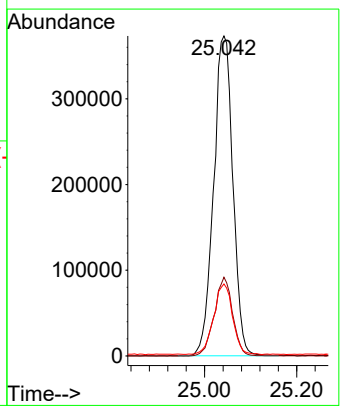


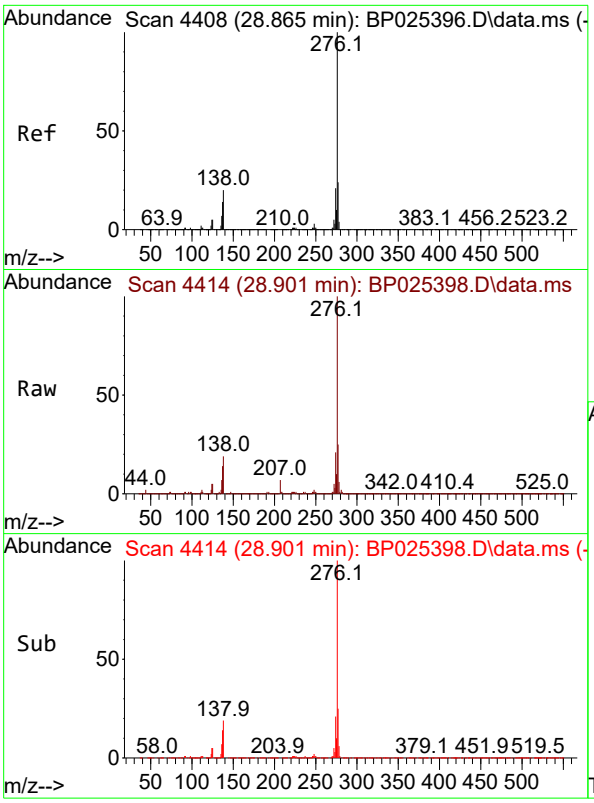


#86
Perylene-d12
Concen: 20.000 ng
RT: 25.042 min Scan# 3758
Delta R.T. 0.012 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Tgt Ion:264 Resp: 1081163

Ion	Ratio	Lower	Upper
264	100		
260	24.6	19.3	28.9
265	22.5	17.4	26.0



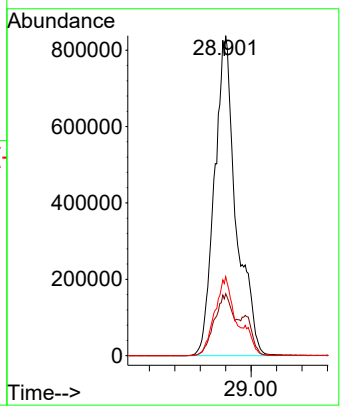


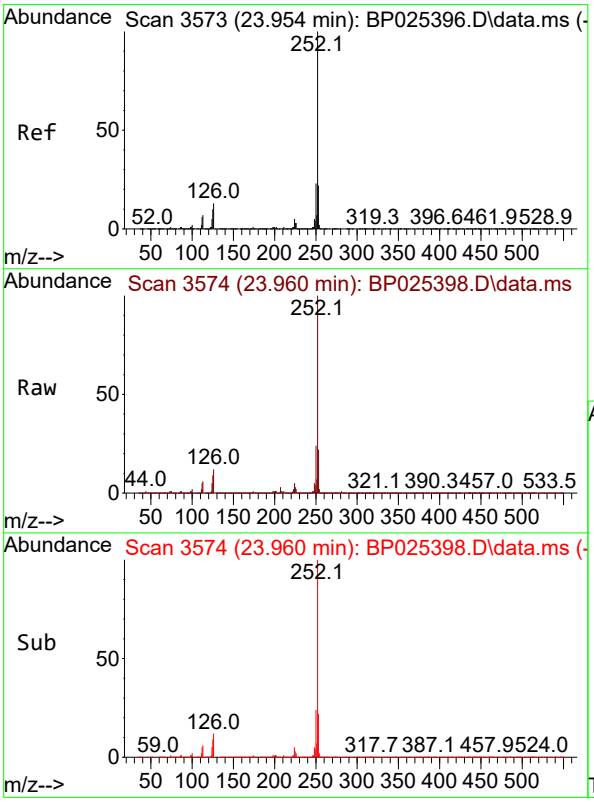
#87
Indeno(1,2,3-cd)pyrene
Concen: 62.248 ng
RT: 28.901 min Scan# 4
Delta R.T. 0.035 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion:276 Resp: 4937235

Ion	Ratio	Lower	Upper
276	100		
138	18.5	12.9	19.3
277	22.4	17.0	25.6

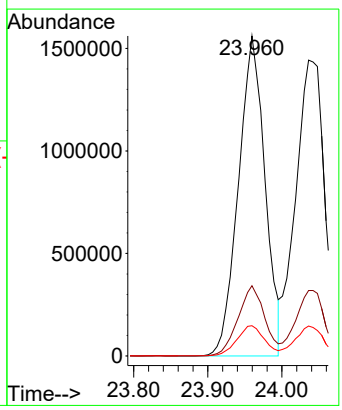


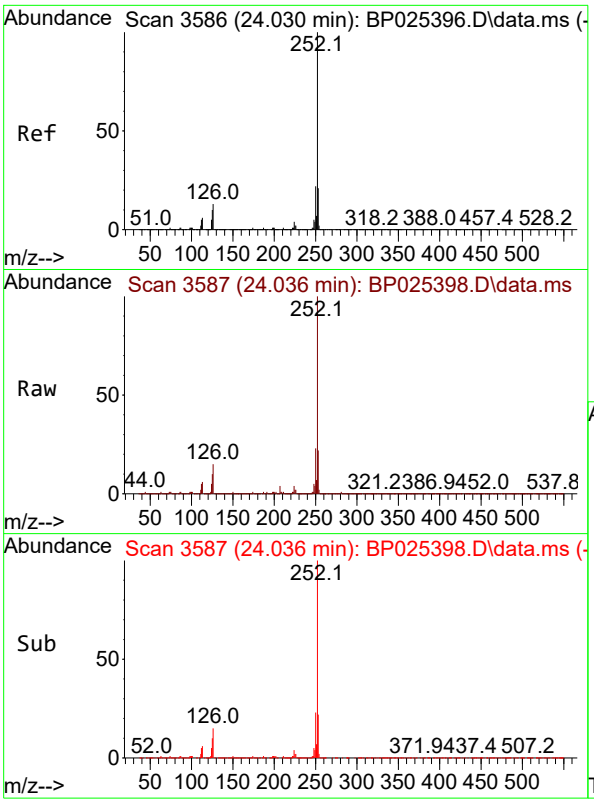


#88
Benzo(b)fluoranthene
Concen: 60.914 ng
RT: 23.960 min Scan# 3574
Delta R.T. 0.006 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Tgt Ion:252 Resp: 3883465

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.7	26.5
125	9.4	7.9	11.9



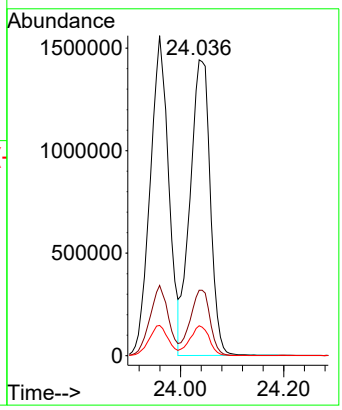


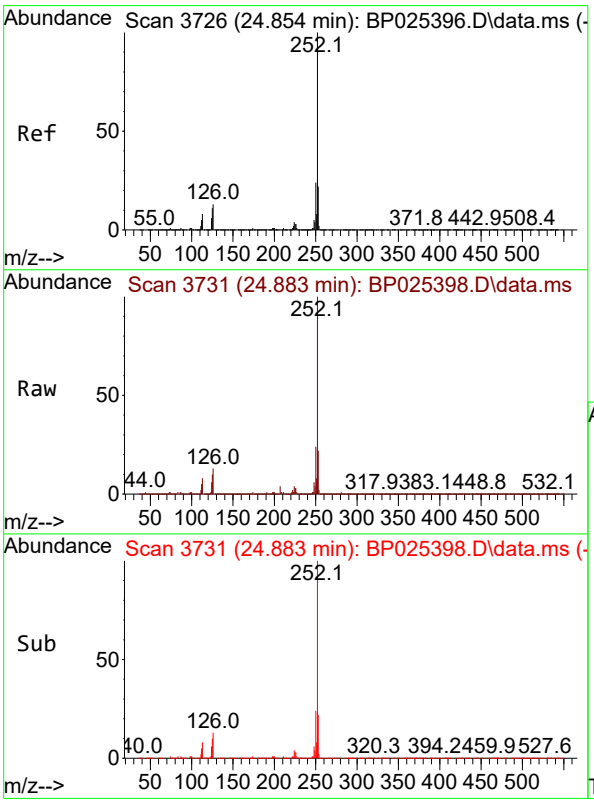
#89
Benzo(k)fluoranthene
Concen: 61.334 ng
RT: 24.036 min Scan# 3
Delta R.T. 0.006 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion:252 Resp: 3912900

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.1	25.7
125	10.1	7.8	11.6

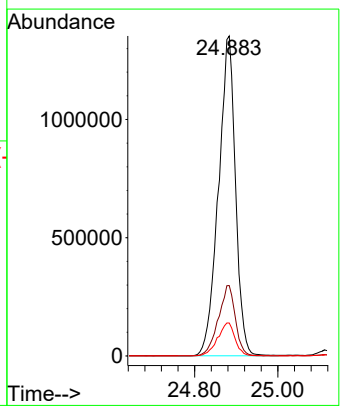


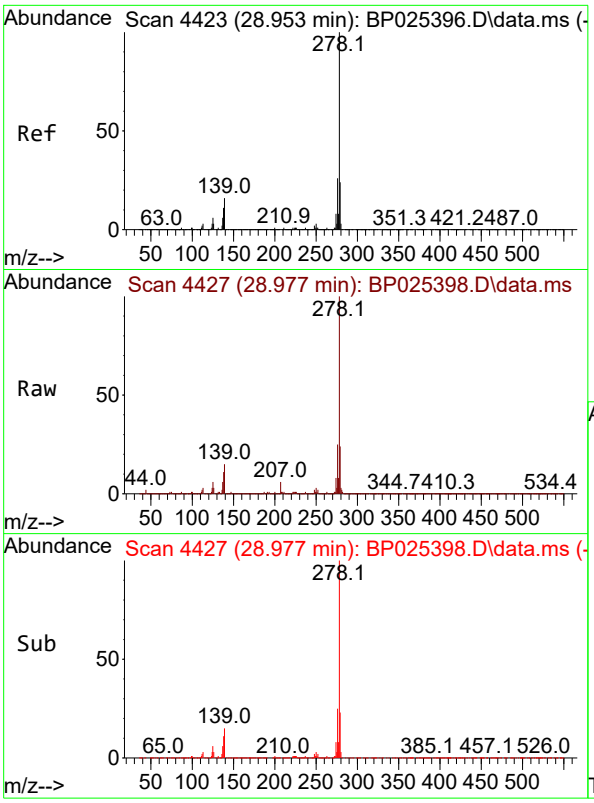


#90
Benzo(a)pyrene
Concen: 61.959 ng
RT: 24.883 min Scan# 3731
Delta R.T. 0.030 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Tgt Ion:252 Resp: 3845093

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.5	26.3
125	10.3	8.7	13.1



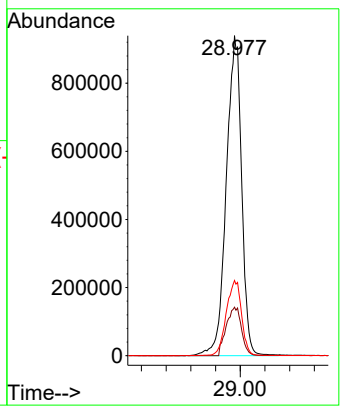


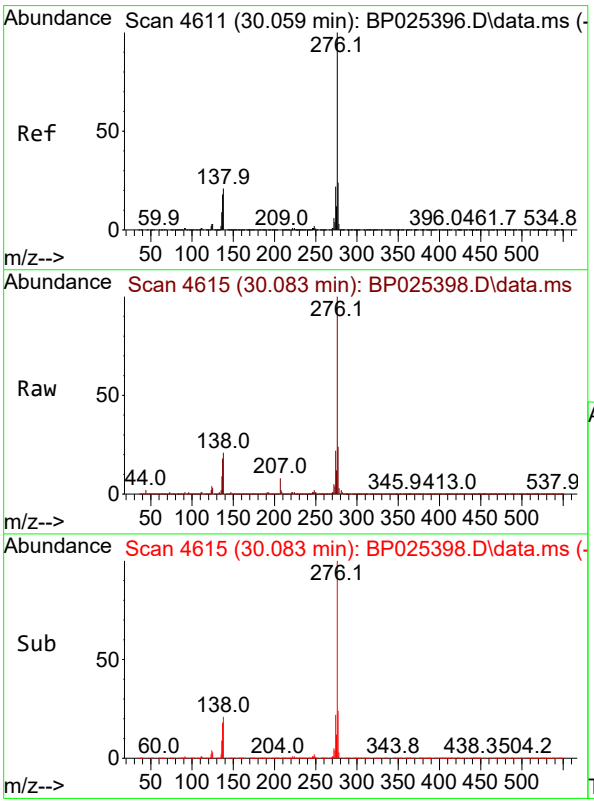
#91
Dibenzo(a,h)anthracene
Concen: 62.280 ng
RT: 28.977 min Scan# 44
Delta R.T. 0.024 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion:278 Resp: 4035414

Ion	Ratio	Lower	Upper
278	100		
139	15.1	13.0	19.4
279	23.5	19.4	29.2

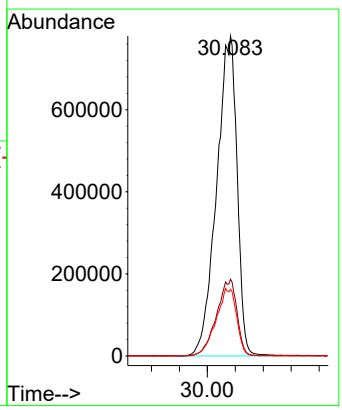




#92
Benzo(g,h,i)perylene
Concen: 62.159 ng
RT: 30.083 min Scan# 4615
Delta R.T. 0.024 min
Lab File: BP025398.D
Acq: 14 Aug 2025 16:42

Tgt Ion:276 Resp: 3958545

Ion	Ratio	Lower	Upper
276	100		
277	24.0	19.4	29.0
138	20.8	16.7	25.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081425\
Data File : BP025399.D
Acq On : 14 Aug 2025 17:24
Operator : CG/JU
Sample : SSTDICC080
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 08/15/2025
Supervised By :Jagrut Upadhyay 08/15/2025

Quant Time: Aug 14 17:59:43 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 17:44:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.796	152	159148	20.000	ng	0.00
21) Naphthalene-d8	10.566	136	673018	20.000	ng	0.00
39) Acenaphthene-d10	14.401	164	436046	20.000	ng	0.00
64) Phenanthrene-d10	17.201	188	856946	20.000	ng	# 0.00
76) Chrysene-d12	21.660	240	888879	20.000	ng	0.01
86) Perylene-d12	25.030	264	1037707	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.408	112	1526166	159.254	ng	0.00
7) Phenol-d6	6.972	99	1989633	161.937	ng	0.00
23) Nitrobenzene-d5	8.937	82	2123522	159.609	ng	0.00
42) 2,4,6-Tribromophenol	15.913	330	936489	159.559	ng	0.00
45) 2-Fluorobiphenyl	13.019	172	4712591	147.705	ng	0.00
79) Terphenyl-d14	19.930	244	7103816	146.217	ng	0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	3.337	88	291527	77.664	ng	99
3) Pyridine	3.731	79	807269	78.572	ng	97
4) n-Nitrosodimethylamine	3.637	42	344349	81.296	ng	99
6) Aniline	7.131	93	1333221	80.538	ng	100
8) 2-Chlorophenol	7.372	128	877073	81.104	ng	99
9) Benzaldehyde	6.943	77	582344	67.651	ng	98
10) Phenol	7.002	94	1040534	80.710	ng	98
11) bis(2-Chloroethyl)ether	7.219	93	798672	79.481	ng	99
12) 1,3-Dichlorobenzene	7.684	146	950596	79.718	ng	98
13) 1,4-Dichlorobenzene	7.825	146	961421	78.882	ng	99
14) 1,2-Dichlorobenzene	8.143	146	922658	78.203	ng	99
15) Benzyl Alcohol	8.031	79	795618	81.498	ng	98
16) 2,2'-oxybis(1-Chloropr...	8.319	45	1059824	78.732	ng	99
17) 2-Methylphenol	8.225	107	734482	82.028	ng	100
18) Hexachloroethane	8.866	117	355791	79.395	ng	94
19) n-Nitroso-di-n-propyla...	8.596	70	636387	78.102	ng	99
20) 3+4-Methylphenols	8.555	107	1005632	81.023	ng	97
22) Acetophenone	8.607	105	1314548	77.886	ng	99
24) Nitrobenzene	8.978	77	947511	79.686	ng	99
25) Isophorone	9.507	82	1829675	77.708	ng	99
26) 2-Nitrophenol	9.678	139	511806	83.872	ng	99
27) 2,4-Dimethylphenol	9.743	122	842467	80.280	ng	100
28) bis(2-Chloroethoxy)met...	9.972	93	1103640	77.542	ng	99
29) 2,4-Dichlorophenol	10.213	162	844787	81.037	ng	99
30) 1,2,4-Trichlorobenzene	10.425	180	892771	78.123	ng	98
31) Naphthalene	10.613	128	2722703	77.835	ng	99
32) Benzoic acid	9.901	122	686791	88.861	ng	99
33) 4-Chloroaniline	10.713	127	1232431	79.761	ng	100
34) Hexachlorobutadiene	10.901	225	557922	78.393	ng	99
35) Caprolactam	11.519	113	302874	79.233	ng	95
36) 4-Chloro-3-methylphenol	11.843	107	949779	79.399	ng	99
37) 2-Methylnaphthalene	12.213	142	1761325	77.372	ng	99
38) 1-Methylnaphthalene	12.437	142	1844376	76.186	ng	99
40) 1,2,4,5-Tetrachloroben...	12.584	216	995064	79.014	ng	100
41) Hexachlorocyclopentadiene	12.572	237	668771	87.916	ng	99
43) 2,4,6-Trichlorophenol	12.825	196	706484	83.096	ng	98

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081425\
Data File : BP025399.D
Acq On : 14 Aug 2025 17:24
Operator : CG/JU
Sample : SSTDICC080
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 08/15/2025
Supervised By :Jagrut Upadhyay 08/15/2025

Quant Time: Aug 14 17:59:43 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 17:44:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.901	196	762861	81.870	ng	99
46) 1,1'-Biphenyl	13.231	154	2453536	77.476	ng	99
47) 2-Chloronaphthalene	13.272	162	1918120	77.804	ng	100
48) 2-Nitroaniline	13.472	65	594696	82.788	ng	96
49) Acenaphthylene	14.125	152	3194918	78.318	ng	100
50) Dimethylphthalate	13.860	163	2446951	76.632	ng	99
51) 2,6-Dinitrotoluene	13.972	165	542710	80.639	ng	99
52) Acenaphthene	14.472	154	1841448	76.902	ng	99
53) 3-Nitroaniline	14.301	138	618087	81.627	ng	100
54) 2,4-Dinitrophenol	14.507	184	339125	94.356	ng	100
55) Dibenzofuran	14.807	168	2915933	77.023	ng	99
56) 4-Nitrophenol	14.619	139	520294	83.618	ng	96
57) 2,4-Dinitrotoluene	14.766	165	791214	82.399	ng	99
58) Fluorene	15.466	166	2185593	73.164	ng	98
59) 2,3,4,6-Tetrachlorophenol	15.031	232	661890	80.448	ng	100
60) Diethylphthalate	15.242	149	2494087	76.870	ng	100
61) 4-Chlorophenyl-phenyle...	15.460	204	1105157	74.388	ng	97
62) 4-Nitroaniline	15.484	138	626525	80.710	ng	97
63) Azobenzene	15.760	77	2139674	77.017	ng	99
65) 4,6-Dinitro-2-methylph...	15.542	198	472602	88.473	ng	93
66) n-Nitrosodiphenylamine	15.678	169	2034782	77.866	ng	100
67) 4-Bromophenyl-phenylether	16.372	248	745915	79.144	ng	98
68) Hexachlorobenzene	16.495	284	860051	78.721	ng	97
69) Atrazine	16.654	200	783533	80.064	ng	98
70) Pentachlorophenol	16.842	266	589673	85.502	ng	98
71) Phenanthrene	17.242	178	3623454	76.972	ng	99
72) Anthracene	17.336	178	3702277	77.014	ng	99
73) Carbazole	17.607	167	3503273	77.368	ng	99
74) Di-n-butylphthalate	18.219	149	4336701	77.844	ng	100
75) Fluoranthene	19.330	202	4313301	76.815	ng	99
77) Benzidine	19.525	184	2036246	67.124	ng	99
78) Pyrene	19.707	202	4410693	76.343	ng	99
80) Butylbenzylphthalate	20.660	149	2054404	78.460	ng	97
81) Benzo(a)anthracene	21.642	228	4532763	77.322	ng	100
82) 3,3'-Dichlorobenzidine	21.554	252	1705746	77.197	ng	100
83) Chrysene	21.707	228	4218161	76.835	ng	99
84) Bis(2-ethylhexyl)phtha...	21.583	149	3021891	78.400	ng	100
85) Di-n-octyl phthalate	22.877	149	5302080	79.974	ng	100
87) Indeno(1,2,3-cd)pyrene	28.895	276	6168570m	81.030	ng	
88) Benzo(b)fluoranthene	23.977	252	4876398	79.692	ng	100
89) Benzo(k)fluoranthene	24.054	252	4734637	77.323	ng	99
90) Benzo(a)pyrene	24.889	252	4735685	79.505	ng	99
91) Dibenzo(a,h)anthracene	28.983	278	5046260	81.142	ng	99
92) Benzo(g,h,i)perylene	30.106	276	4949477	80.973	ng	98

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

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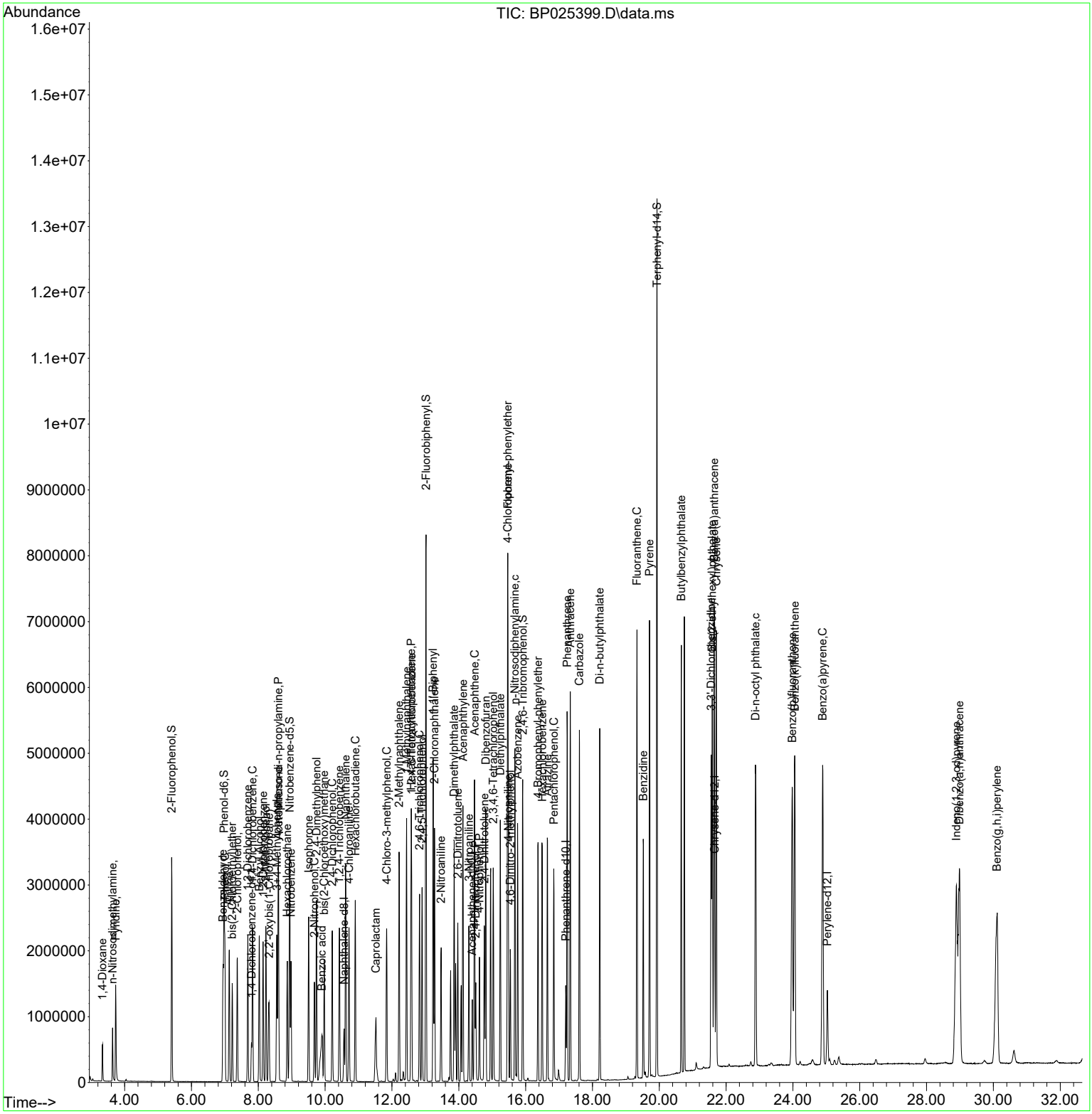
Data File : BP025399.D
Acq On : 14 Aug 2025 17:24
Operator : CG/JU
Sample : SSTDICC080
Misc :
ALS Vial : 10 Sample Multiplier: 1

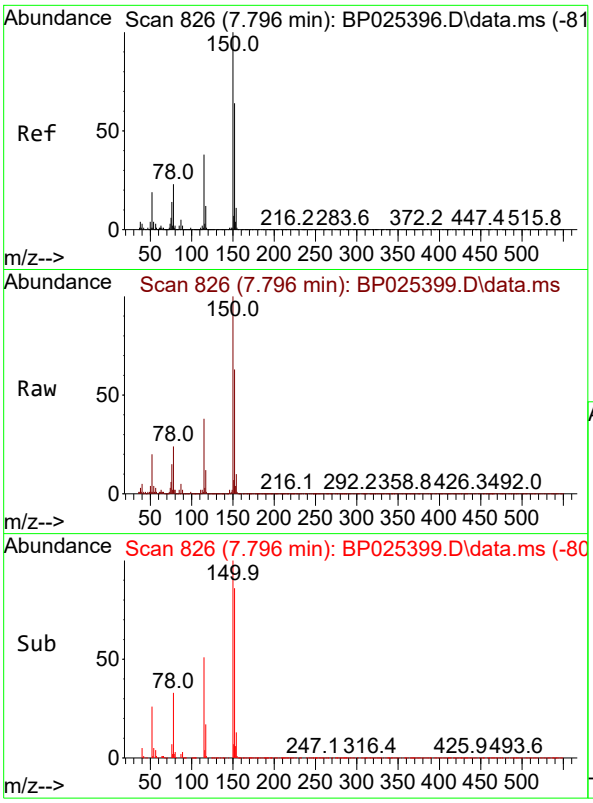
Quant Time: Aug 14 17:59:43 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 17:44:43 2025
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 08/15/2025
Supervised By :Jagrut Upadhyay 08/15/2025

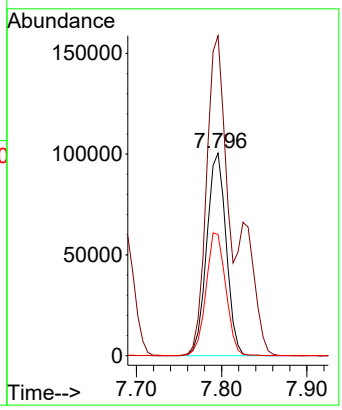




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.796 min Scan# 8
Delta R.T. -0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:152 Resp: 15914

Ion	Ratio	Lower	Upper
152	100		
150	157.9	125.9	188.9
115	59.9	48.5	72.7



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

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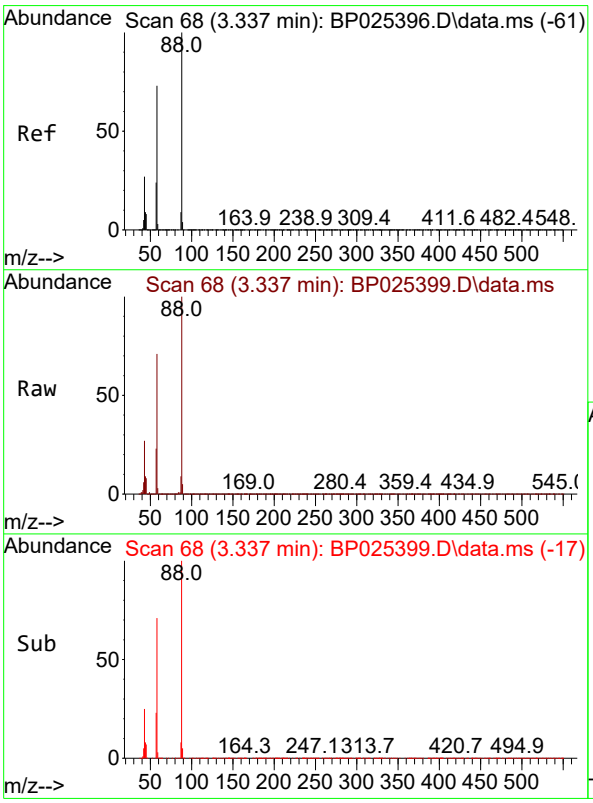
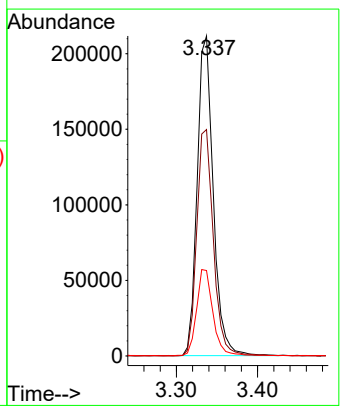
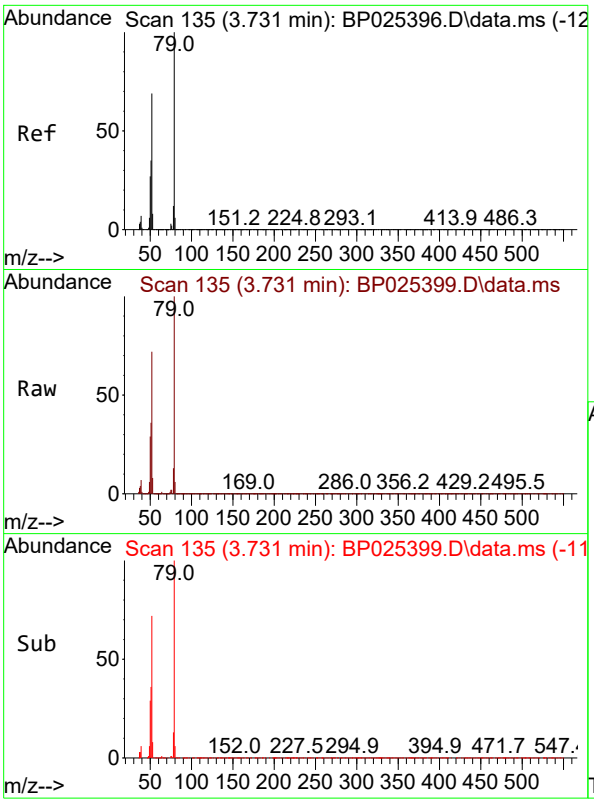


#2
1,4-Dioxane
Concen: 77.664 ng
RT: 3.337 min Scan# 68
Delta R.T. 0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion: 88 Resp: 291527

Ion	Ratio	Lower	Upper
88	100		
58	73.3	59.2	88.8
43	27.4	21.7	32.5

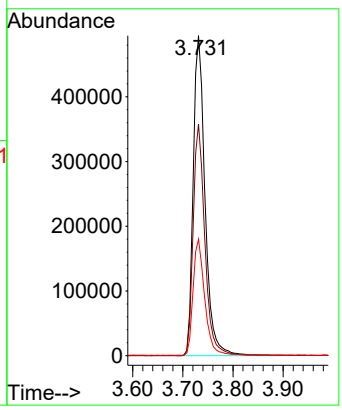




#3
Pyridine
Concen: 78.572 ng
RT: 3.731 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion: 79 Resp: 80726

Ion	Ratio	Lower	Upper
79	100		
52	72.4	55.5	83.3
51	36.4	28.3	42.5



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

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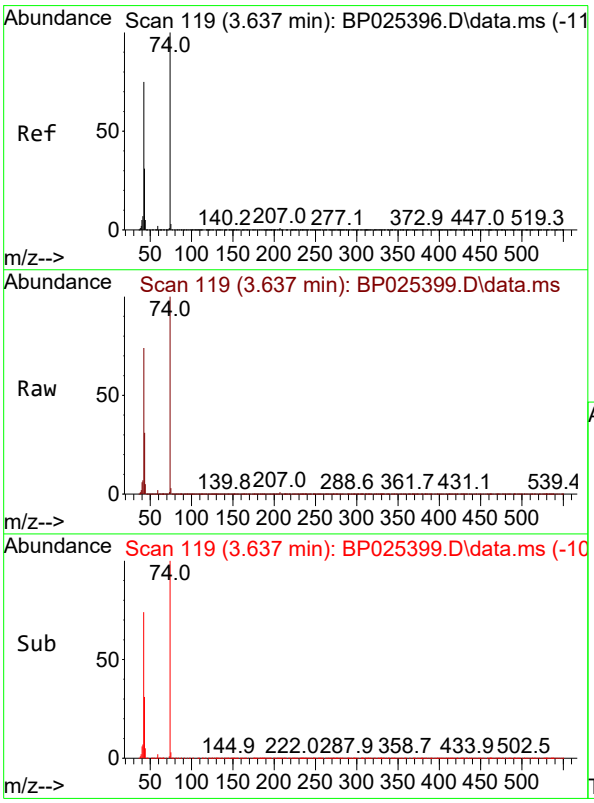
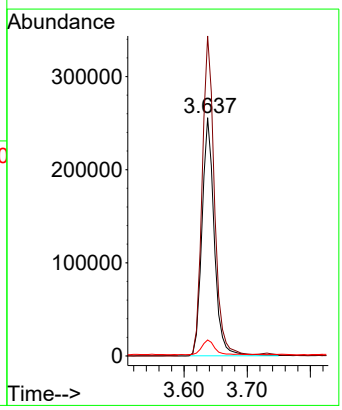
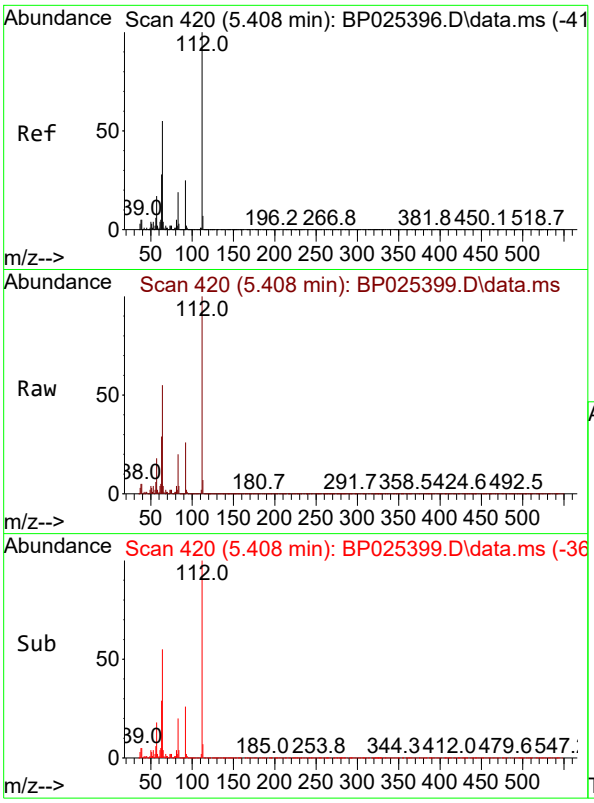


#4
n-Nitrosodimethylamine
Concen: 81.296 ng
RT: 3.637 min Scan# 119
Delta R.T. 0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion: 42 Resp: 344349

Ion	Ratio	Lower	Upper
42	100		
74	134.3	107.0	160.4
44	6.7	6.2	9.4

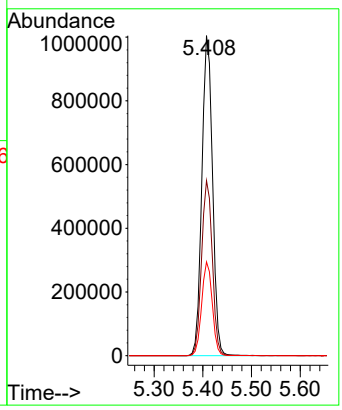




#5
2-Fluorophenol
Concen: 159.254 ng
RT: 5.408 min Scan# 4
Delta R.T. 0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:112 Resp: 152616

Ion	Ratio	Lower	Upper
112	100		
64	54.7	43.8	65.8
63	29.3	22.7	34.1



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

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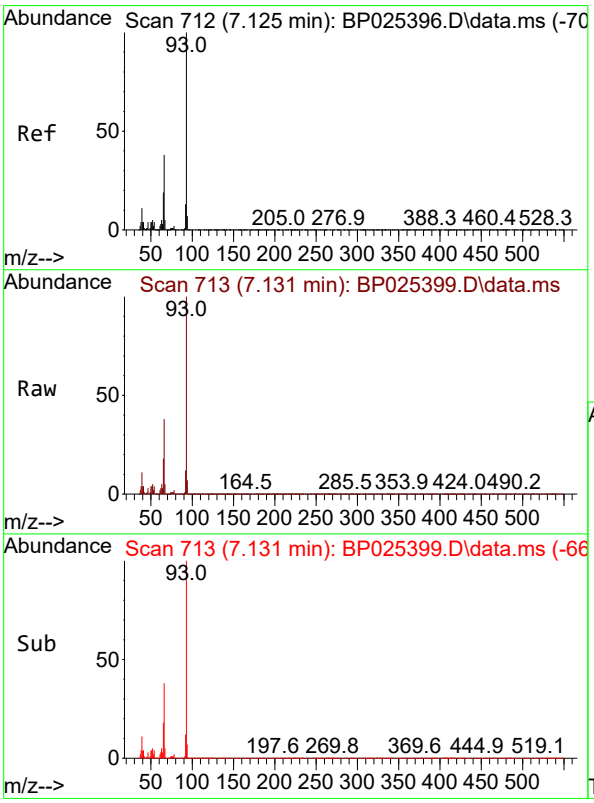
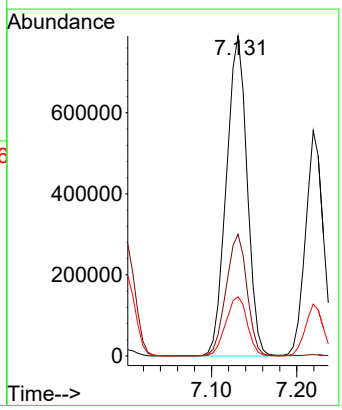
Supervised By :Jagrut Upadhyay 08/15/2025

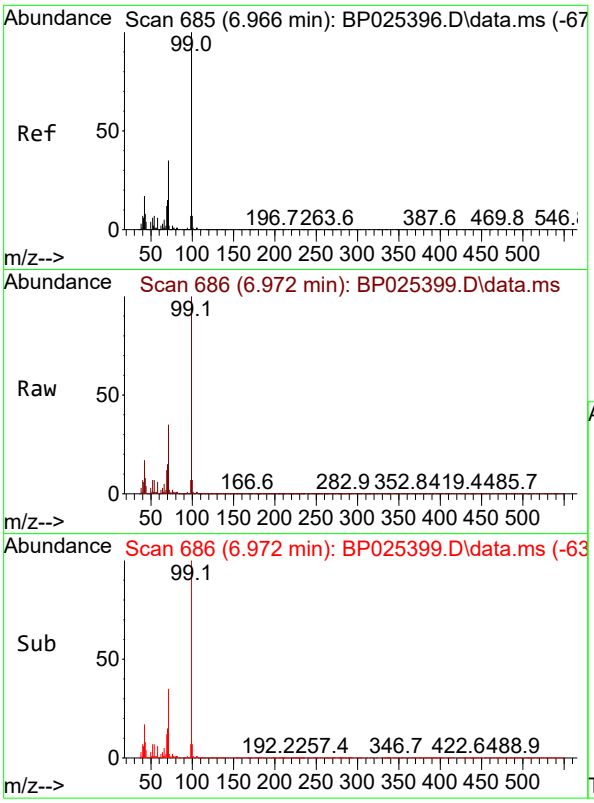


#6
Aniline
Concen: 80.538 ng
RT: 7.131 min Scan# 713
Delta R.T. 0.006 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion: 93 Resp: 1333221

Ion	Ratio	Lower	Upper
93	100		
66	38.0	30.4	45.6
65	18.5	15.3	22.9

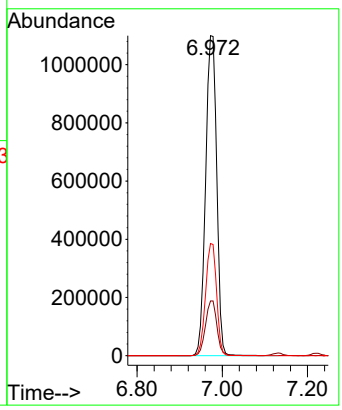




#7
Phenol-d6
Concen: 161.937 ng
RT: 6.972 min Scan# 6
Delta R.T. 0.006 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion: 99 Resp: 198963

Ion	Ratio	Lower	Upper
99	100		
42	17.1	13.7	20.5
71	35.1	28.2	42.4



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

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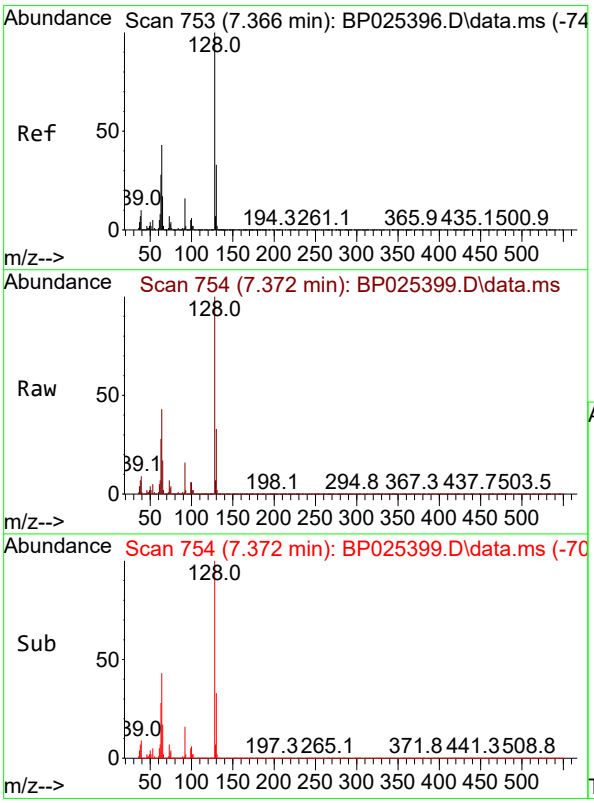
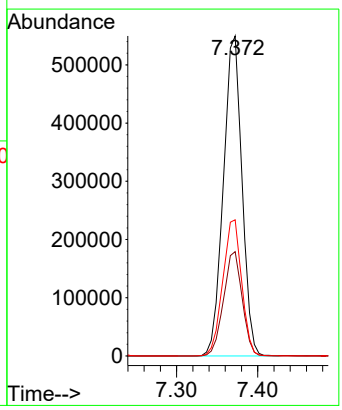
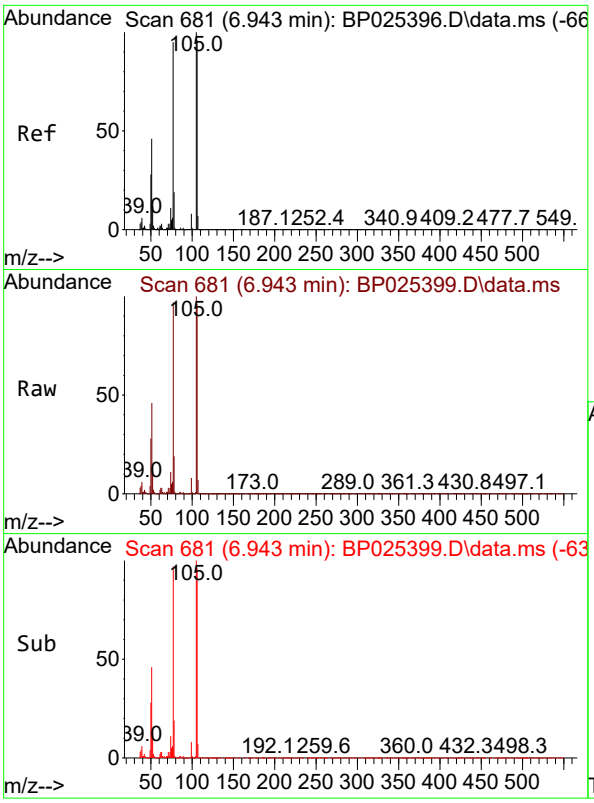


#8
2-Chlorophenol
Concen: 81.104 ng
RT: 7.372 min Scan# 754
Delta R.T. 0.006 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:128 Resp: 877073

Ion	Ratio	Lower	Upper
128	100		
130	32.6	12.6	52.6
64	42.5	23.4	63.4

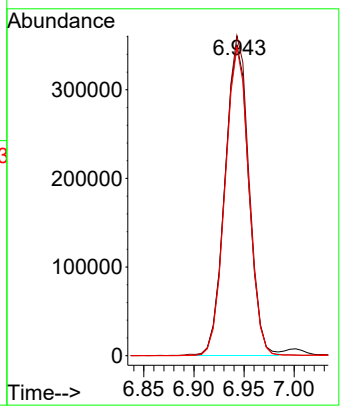




#9
Benzaldehyde
Concen: 67.651 ng
RT: 6.943 min Scan# 6
Delta R.T. 0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion: 77 Resp: 58234

Ion	Ratio	Lower	Upper
77	100		
105	103.0	84.8	124.8
106	99.3	80.5	120.5



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

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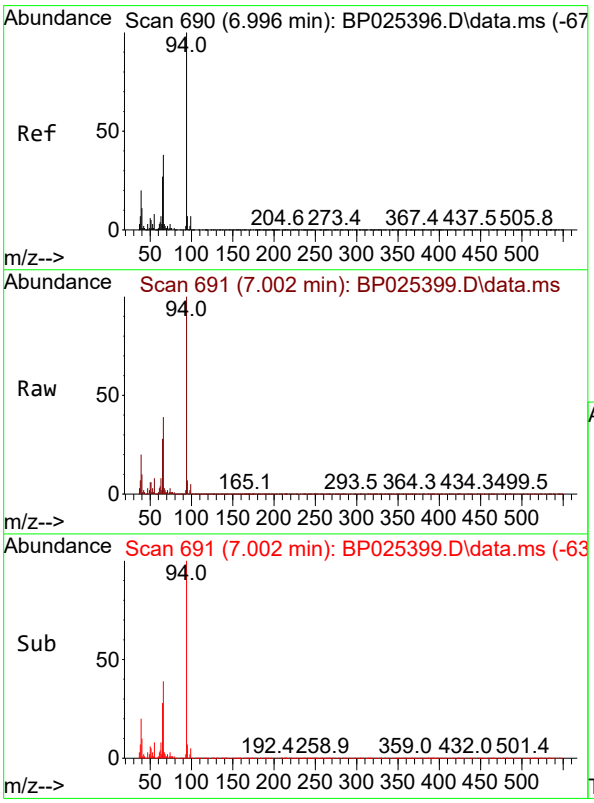
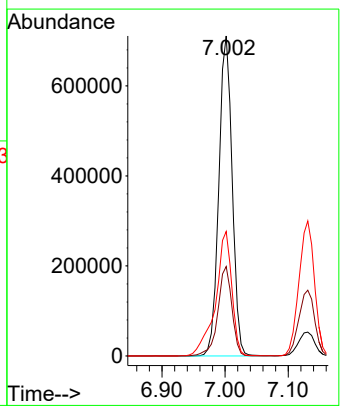
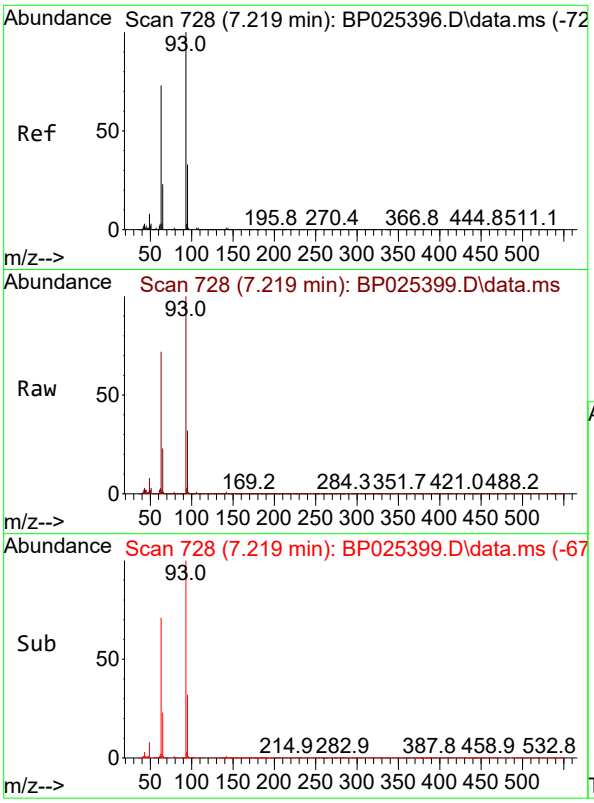


#10
Phenol
Concen: 80.710 ng
RT: 7.002 min Scan# 691
Delta R.T. 0.006 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion: 94 Resp: 1040534

Ion	Ratio	Lower	Upper
94	100		
65	28.0	6.8	46.8
66	38.9	18.2	58.2

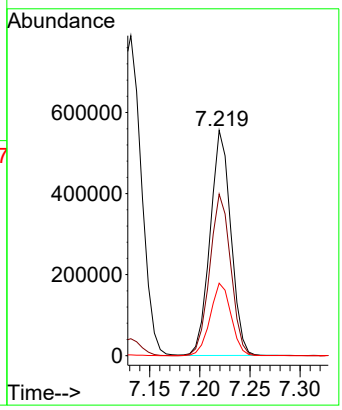




#11
bis(2-Chloroethyl)ether
Concen: 79.481 ng
RT: 7.219 min Scan# 7
Delta R.T. 0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion: 93 Resp: 79867

Ion	Ratio	Lower	Upper
93	100		
63	71.7	52.6	92.6
95	32.2	12.7	52.7



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

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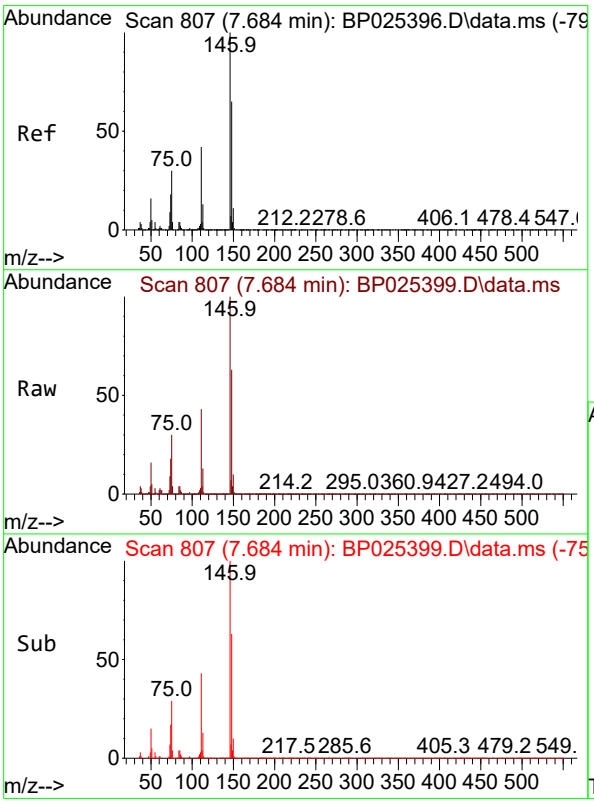
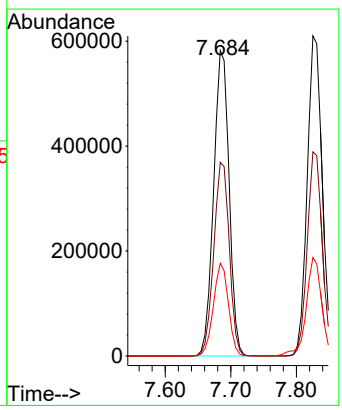
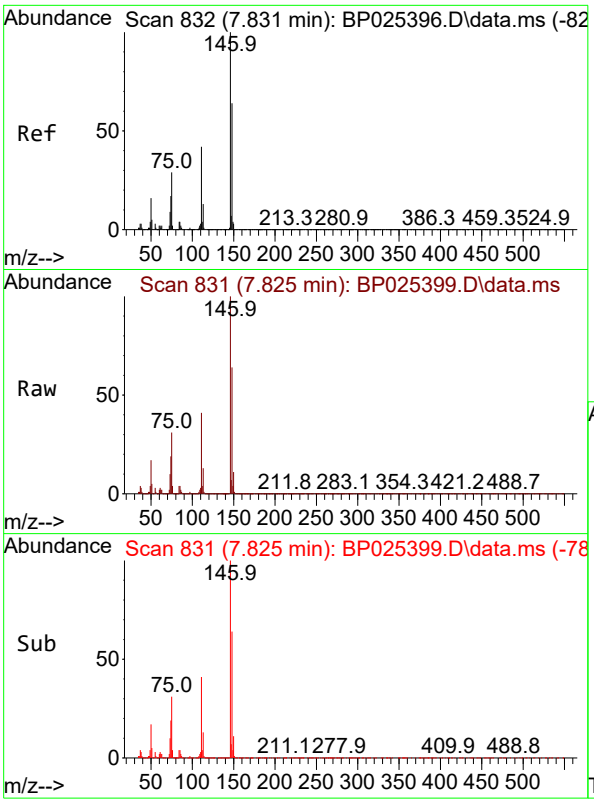


#12
1,3-Dichlorobenzene
Concen: 79.718 ng
RT: 7.684 min Scan# 807
Delta R.T. 0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:146 Resp: 950596

Ion	Ratio	Lower	Upper
146	100		
148	63.4	51.9	77.9
75	30.3	23.7	35.5





#13
1,4-Dichlorobenzene
Concen: 78.882 ng
RT: 7.825 min Scan# 8
Delta R.T. -0.006 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:146 Resp: 96142

Ion	Ratio	Lower	Upper
146	100		
148	63.8	51.6	77.4
111	41.2	33.4	50.0

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

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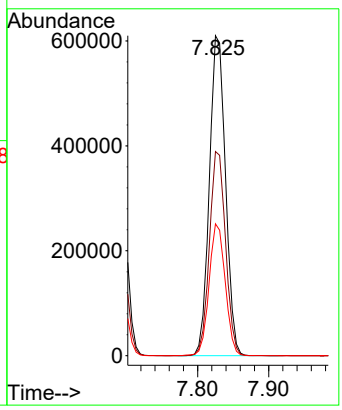
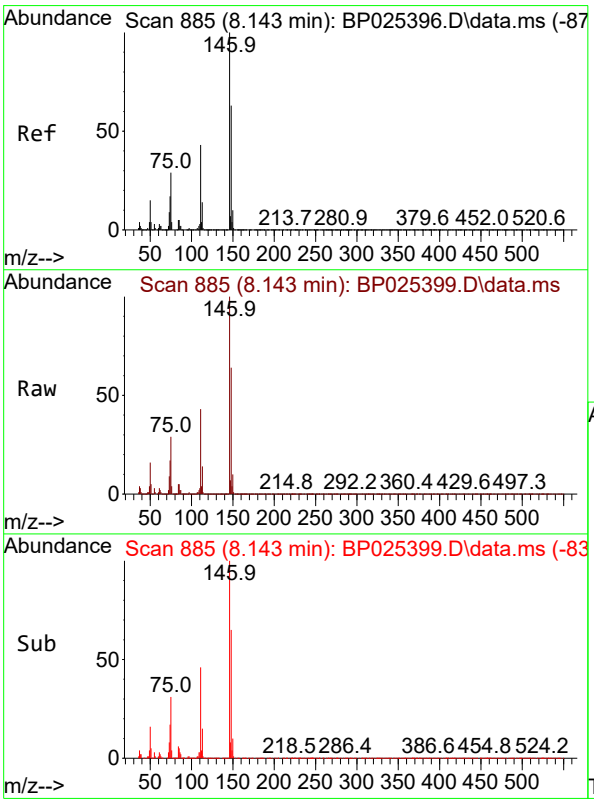
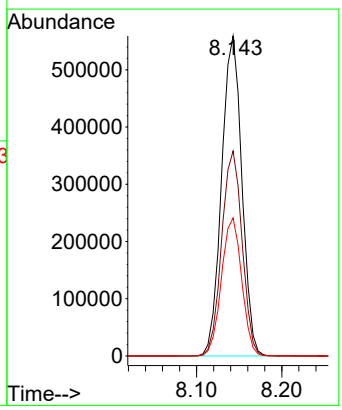


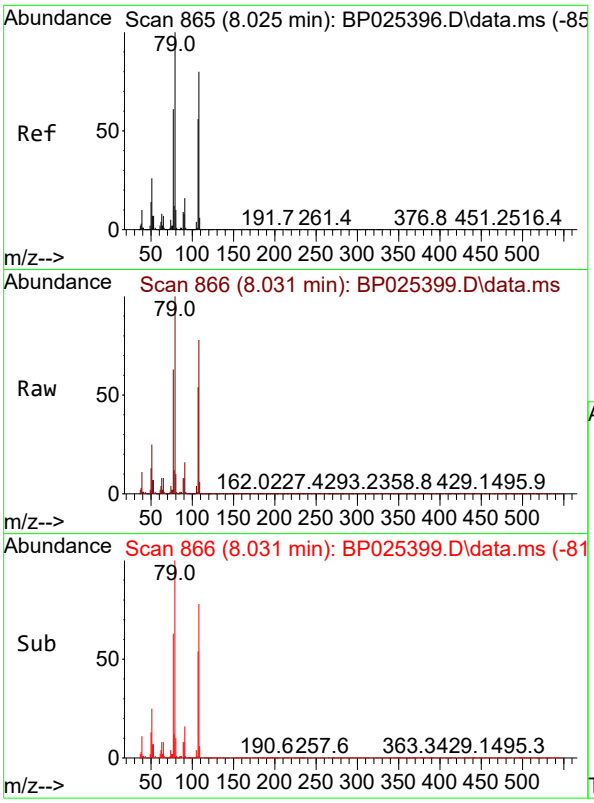


#14
1,2-Dichlorobenzene
Concen: 78.203 ng
RT: 8.143 min Scan# 885
Delta R.T. 0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:146 Resp: 922658

Ion	Ratio	Lower	Upper
146	100		
148	64.1	50.4	75.6
111	43.1	34.5	51.7





#15
Benzyl Alcohol
Concen: 81.498 ng
RT: 8.031 min Scan# 8
Delta R.T. 0.006 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion: 79 Resp: 79561

Ion	Ratio	Lower	Upper
79	100		
108	78.3	63.8	95.6
77	62.8	49.0	73.4

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations
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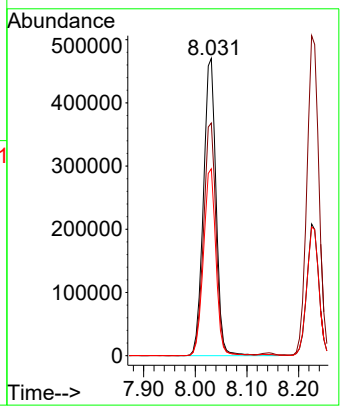
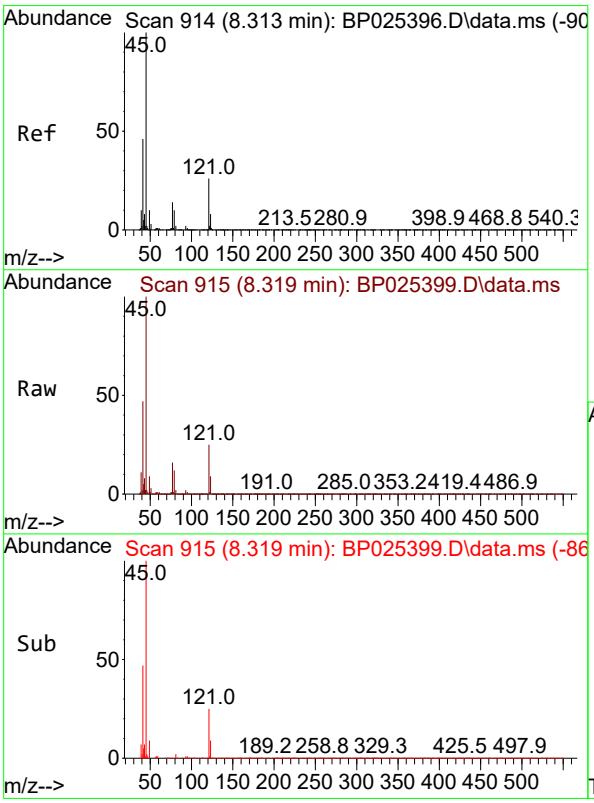
Supervised By :Jagrut Upadhyay 08/15/2025

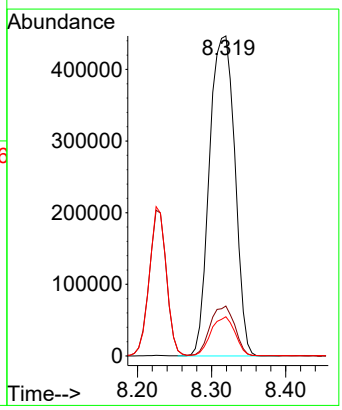


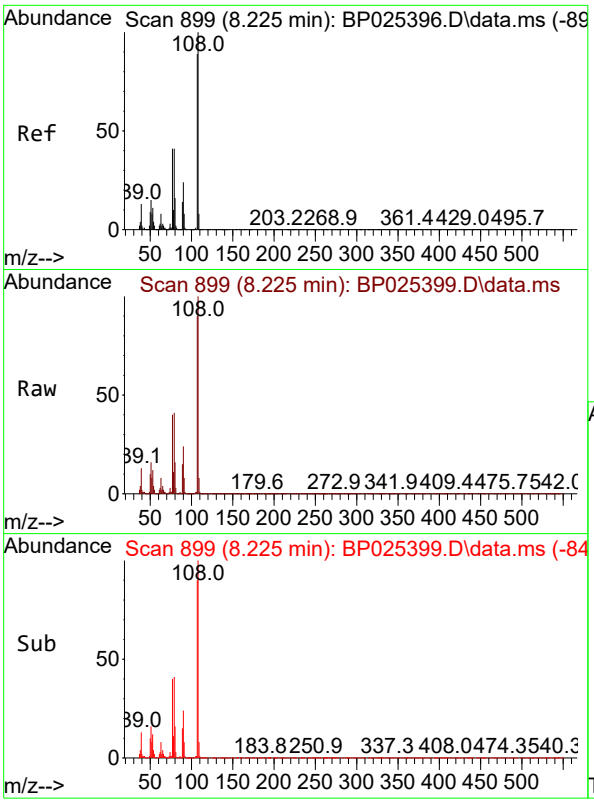


#16
2,2'-oxybis(1-Chloropropane)
Concen: 78.732 ng
RT: 8.319 min Scan# 915
Delta R.T. 0.006 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion: 45 Resp: 1059824

Ion	Ratio	Lower	Upper
45	100		
77	15.6	0.0	35.3
79	12.2	0.0	31.8

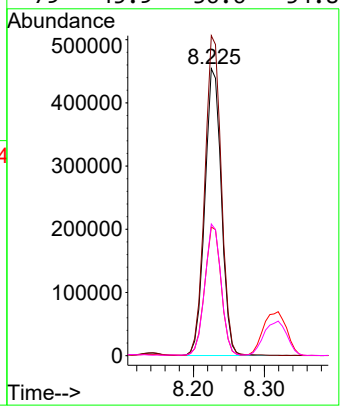




#17
2-Methylphenol
Concen: 82.028 ng
RT: 8.225 min Scan# 8
Delta R.T. 0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:107 Resp: 73448

Ion	Ratio	Lower	Upper
107	100		
108	111.5	89.4	134.0
77	44.8	36.3	54.5
79	45.9	36.6	54.8



Instrument :
BNA_P
ClientSampleId :
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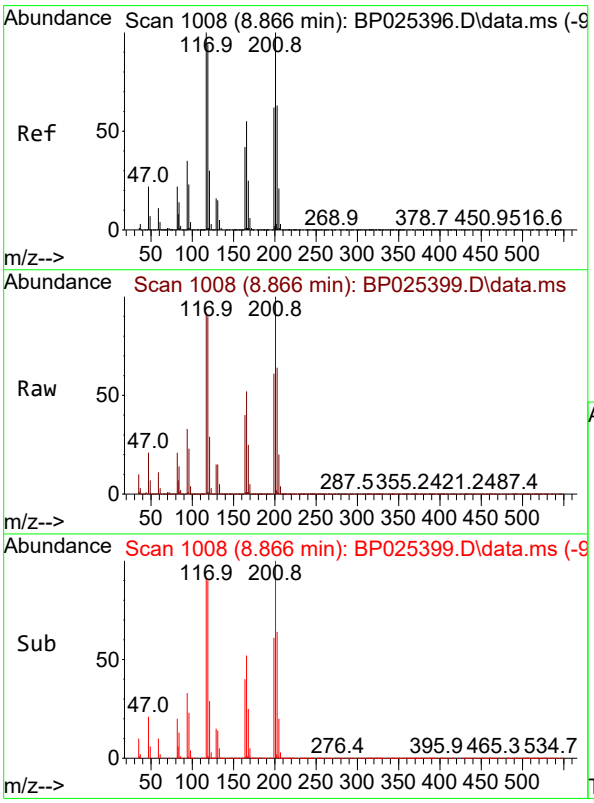
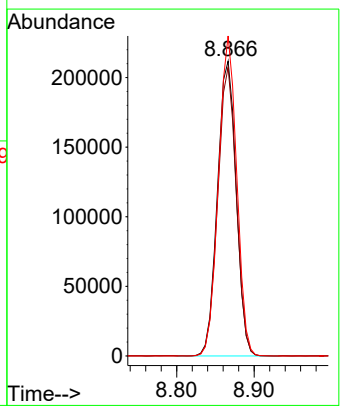
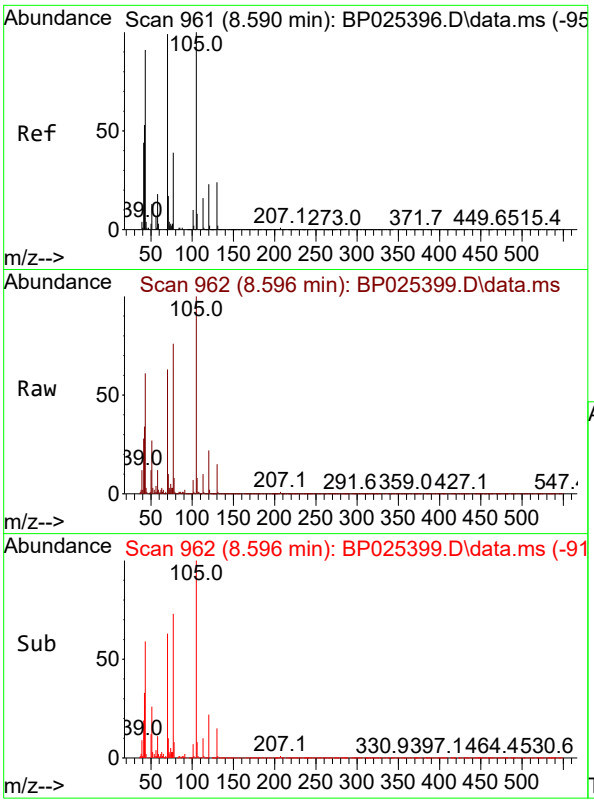


#18
Hexachloroethane
Concen: 79.395 ng
RT: 8.866 min Scan# 1008
Delta R.T. 0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:117 Resp: 355791

Ion	Ratio	Lower	Upper
117	100		
119	97.9	75.1	112.7
201	108.5	80.1	120.1

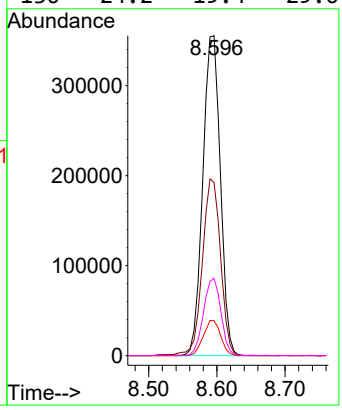




#19
n-Nitroso-di-n-propylamine
Concen: 78.102 ng
RT: 8.596 min Scan# 9
Delta R.T. 0.006 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion: 70 Resp: 63638

Ion	Ratio	Lower	Upper
70	100		
42	54.2	43.8	65.6
101	11.0	8.5	12.7
130	24.2	19.4	29.0



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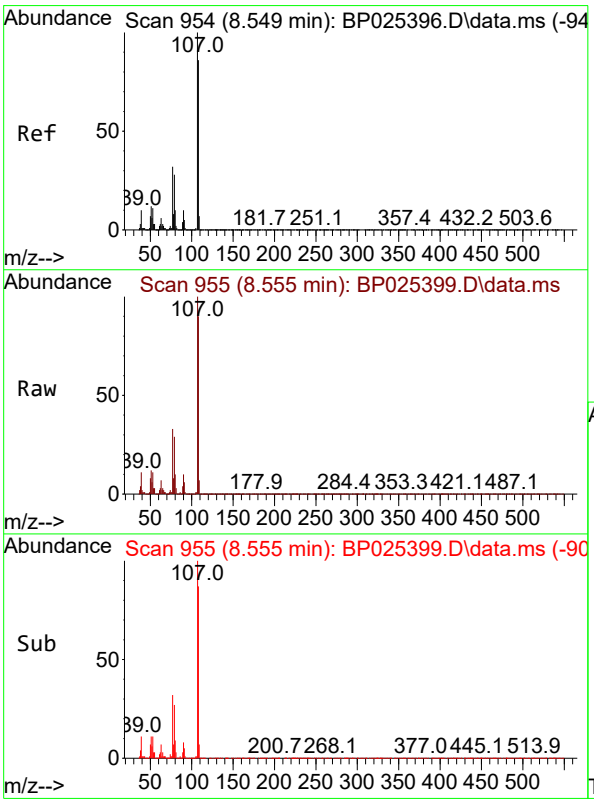
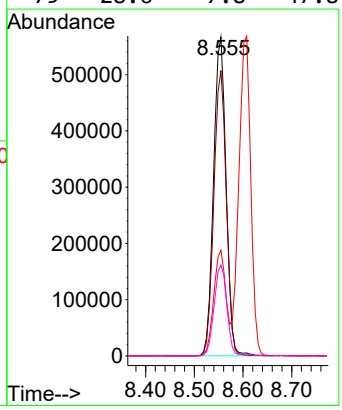
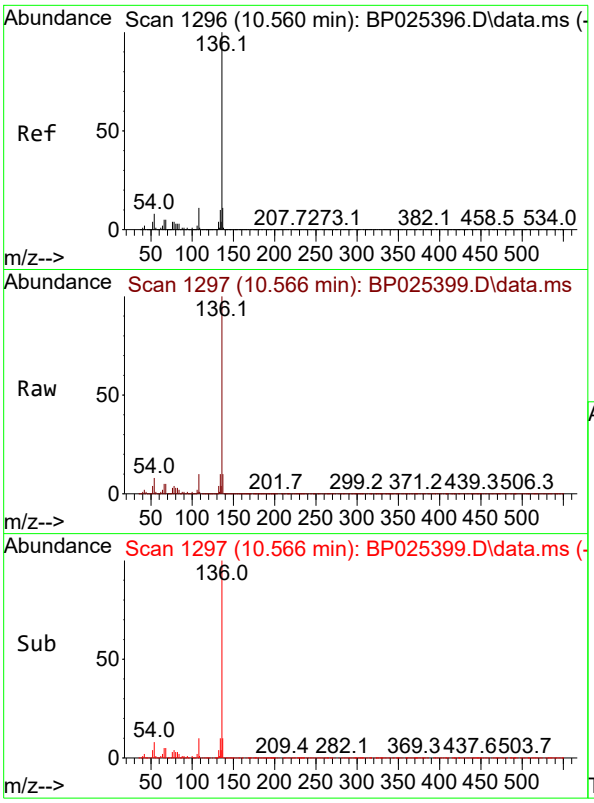


#20
3+4-Methylphenols
Concen: 81.023 ng
RT: 8.555 min Scan# 955
Delta R.T. 0.006 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:107 Resp: 1005632

Ion	Ratio	Lower	Upper
107	100		
108	89.6	66.3	106.3
77	33.2	12.3	52.3
79	28.6	7.8	47.8

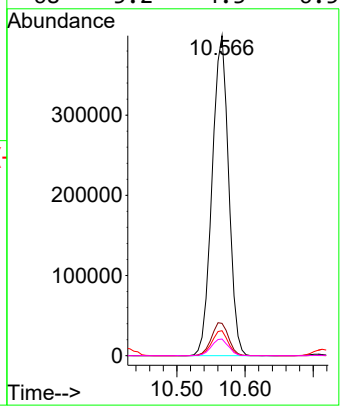




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.566 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:136 Resp: 673018

Ion	Ratio	Lower	Upper
136	100		
137	10.1	9.2	13.8
54	7.8	6.0	9.0
68	5.2	4.3	6.5



Instrument :
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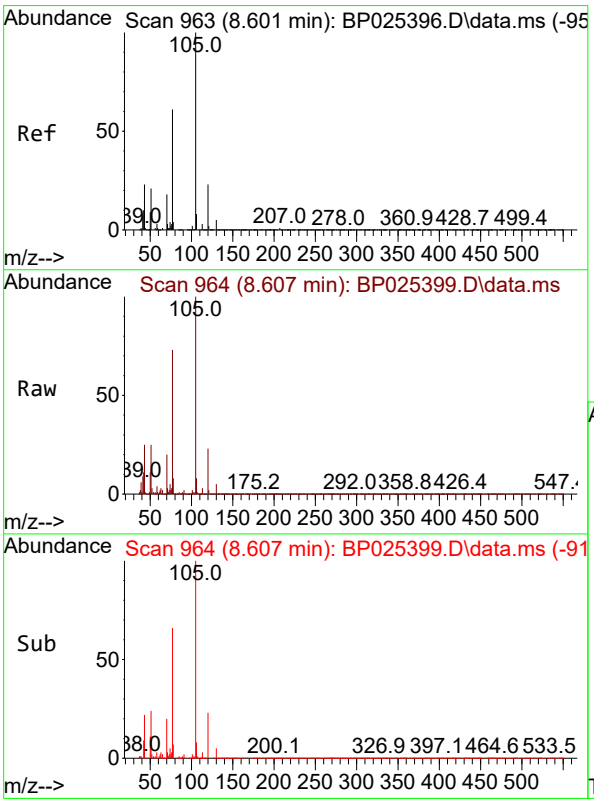
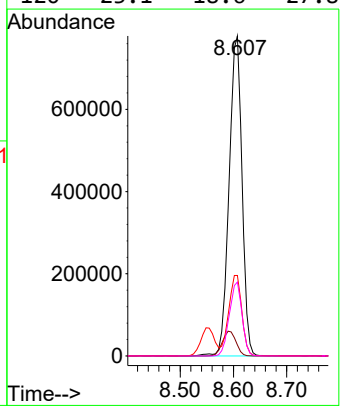
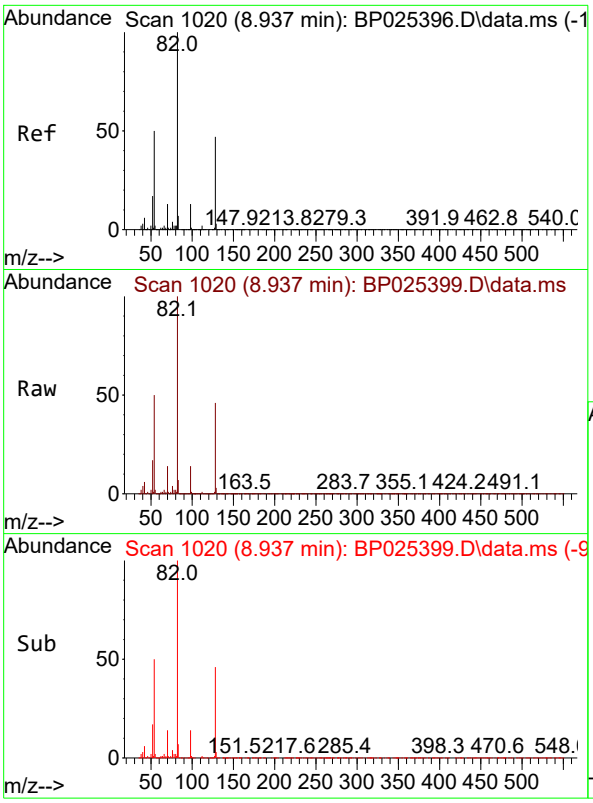


#22
Acetophenone
Concen: 77.886 ng
RT: 8.607 min Scan# 964
Delta R.T. 0.006 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:105 Resp: 1314548

Ion	Ratio	Lower	Upper
105	100		
71	3.4	2.6	4.0
51	25.1	20.6	30.8
120	23.1	18.6	27.8





#23
Nitrobenzene-d5
Concen: 159.609 ng
RT: 8.937 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion: 82 Resp: 212352

Ion	Ratio	Lower	Upper
82	100		
128	46.0	37.7	56.5
54	49.7	39.8	59.6

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

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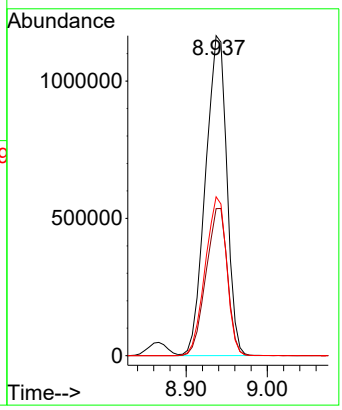
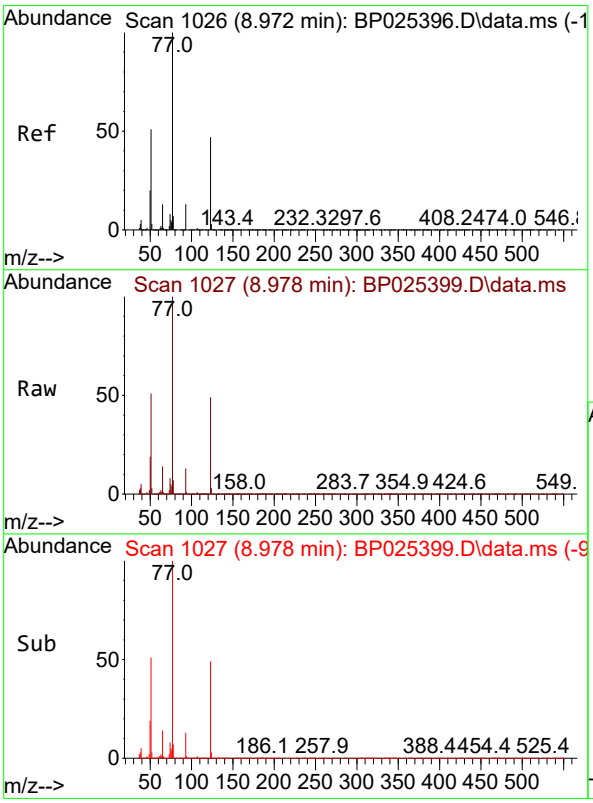
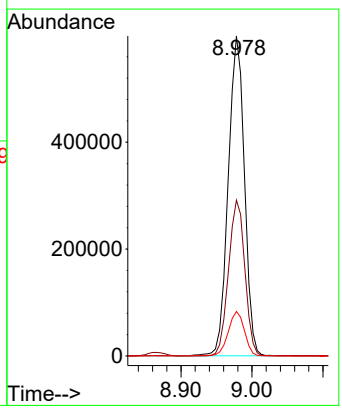


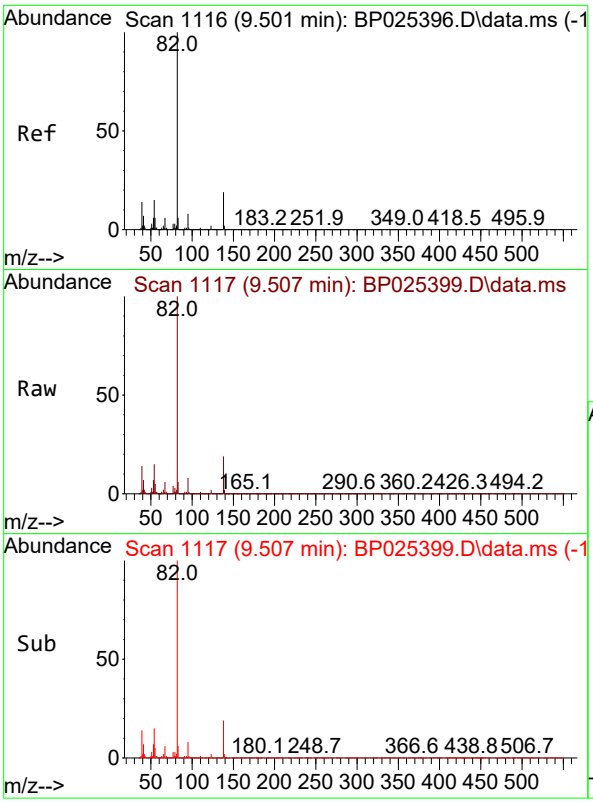


#24
Nitrobenzene
Concen: 79.686 ng
RT: 8.978 min Scan# 1027
Delta R.T. 0.006 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion: 77 Resp: 947511

Ion	Ratio	Lower	Upper
77	100		
123	48.7	38.6	58.0
65	13.9	10.6	15.8

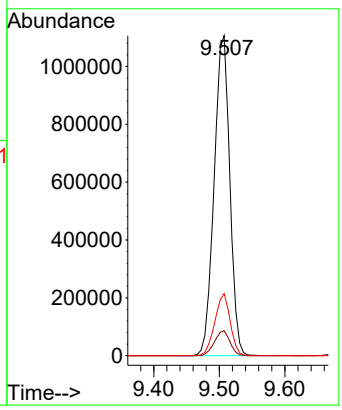




#25
Isophorone
Concen: 77.708 ng
RT: 9.507 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion: 82 Resp: 182967

Ion	Ratio	Lower	Upper
82	100		
95	7.8	6.4	9.6
138	19.4	15.4	23.0



Instrument :
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ClientSampleId :
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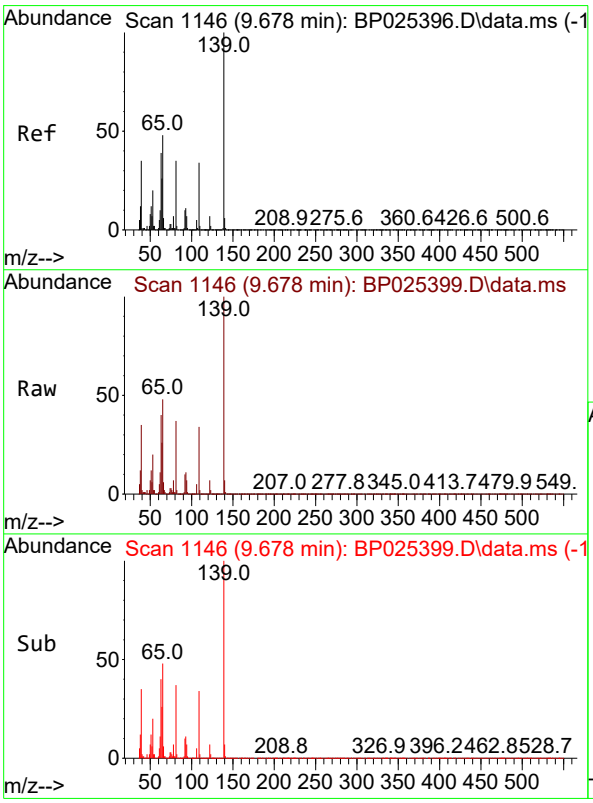
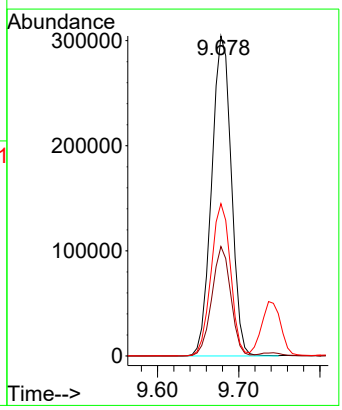
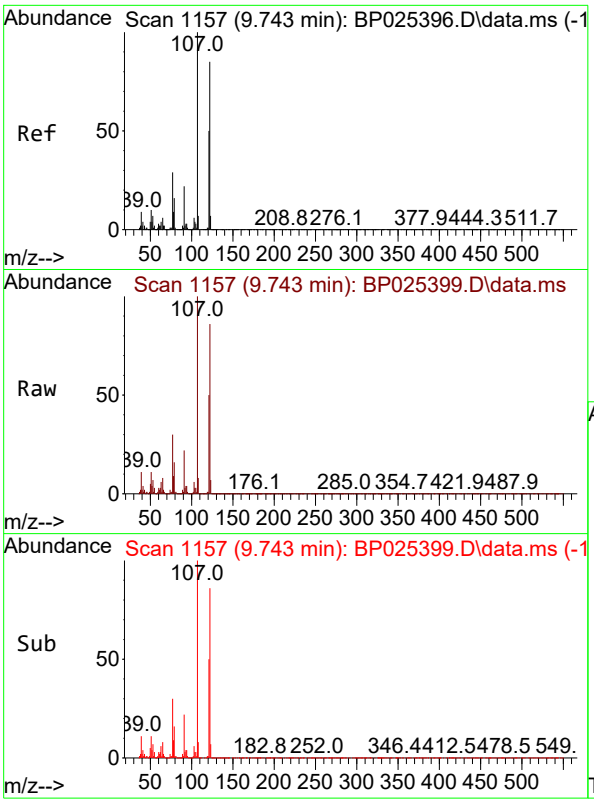


#26
2-Nitrophenol
Concen: 83.872 ng
RT: 9.678 min Scan# 1146
Delta R.T. 0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:139 Resp: 511806

Ion	Ratio	Lower	Upper
139	100		
109	34.2	26.9	40.3
65	47.6	38.3	57.5

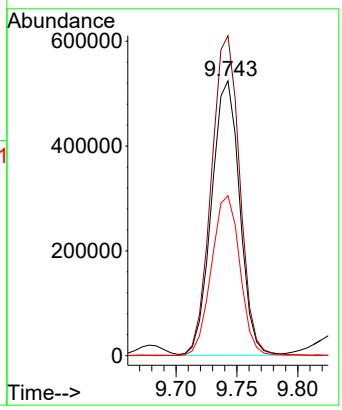




#27
2,4-Dimethylphenol
Concen: 80.280 ng
RT: 9.743 min Scan# 11
Delta R.T. 0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:122 Resp: 84246

Ion	Ratio	Lower	Upper
122	100		
107	116.4	93.7	140.5
121	58.2	46.6	69.8



Instrument :
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ClientSampleId :
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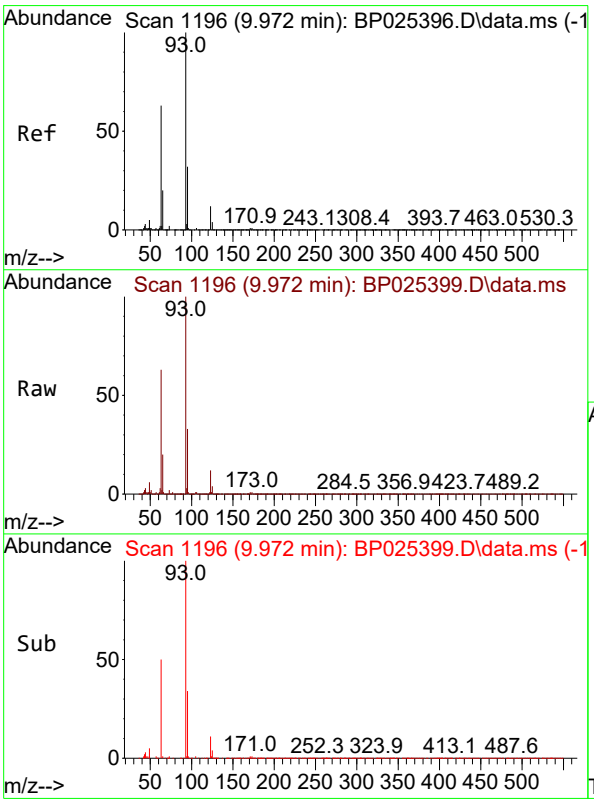
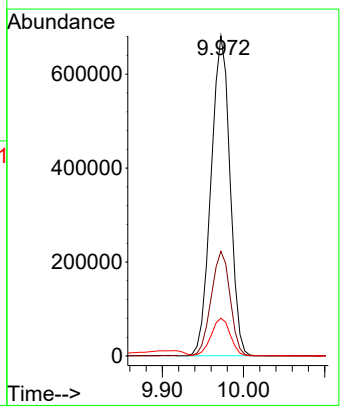
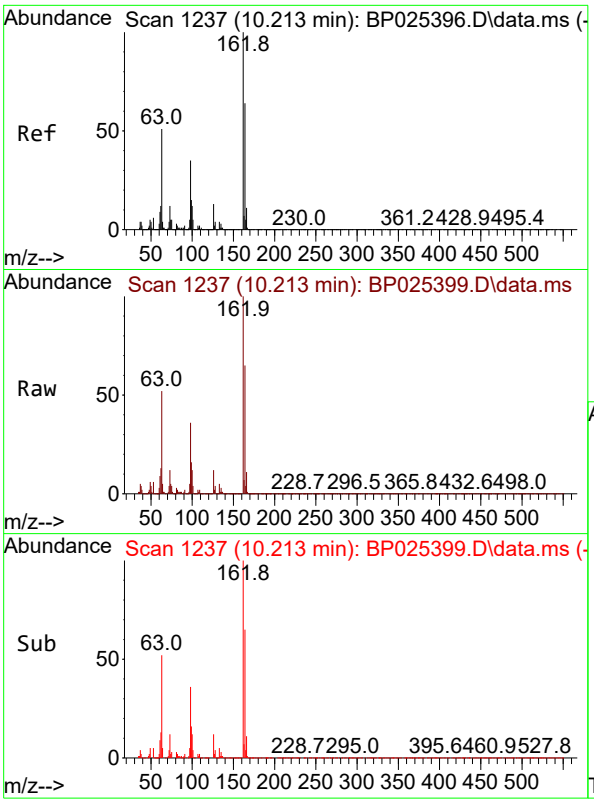


#28
bis(2-Chloroethoxy)methane
Concen: 77.542 ng
RT: 9.972 min Scan# 1196
Delta R.T. 0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion: 93 Resp: 1103640

Ion	Ratio	Lower	Upper
93	100		
95	32.7	25.4	38.0
123	11.8	9.4	14.0

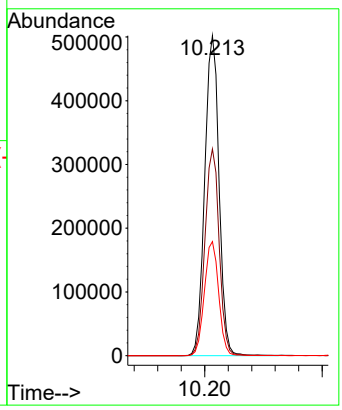




#29
2,4-Dichlorophenol
Concen: 81.037 ng
RT: 10.213 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:162 Resp: 84478

Ion	Ratio	Lower	Upper
162	100		
164	64.6	44.4	84.4
98	35.6	14.9	54.9



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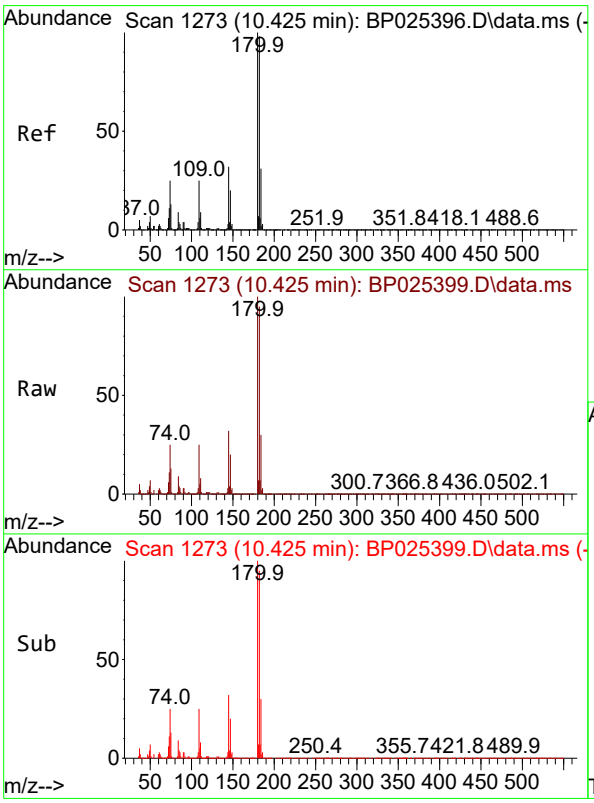
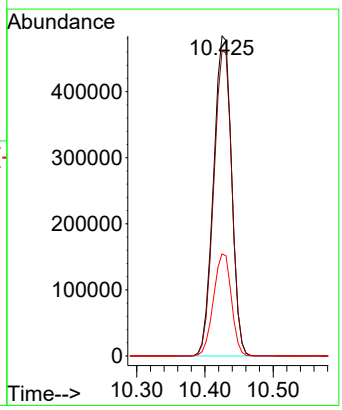
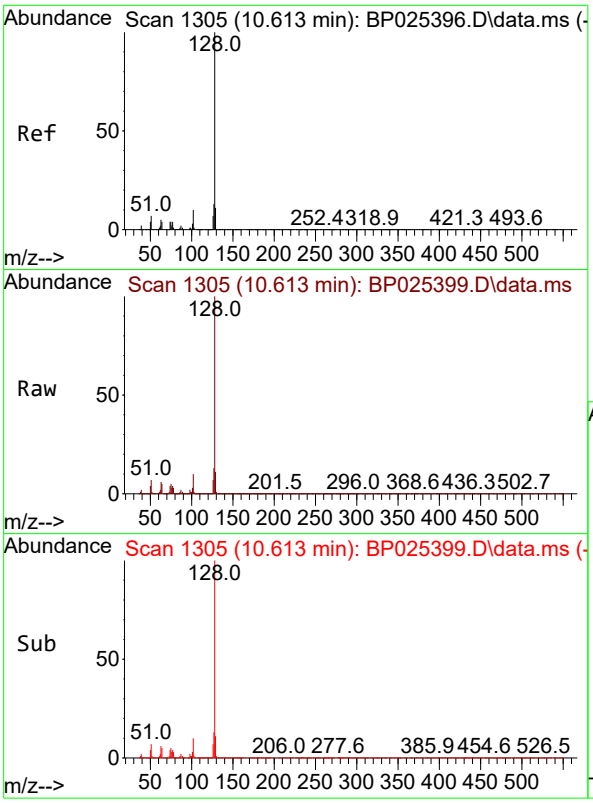


#30
1,2,4-Trichlorobenzene
Concen: 78.123 ng
RT: 10.425 min Scan# 1273
Delta R.T. 0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:180 Resp: 892771

Ion	Ratio	Lower	Upper
180	100		
182	95.4	78.0	117.0
145	31.9	25.9	38.9





#31
Naphthalene
Concen: 77.835 ng
RT: 10.613 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:128 Resp: 272270

Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.6	13.0
127	13.2	10.7	16.1

Instrument :
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ClientSampleId :
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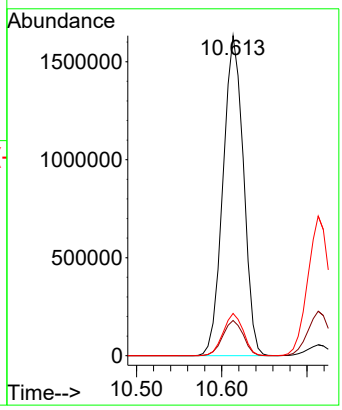
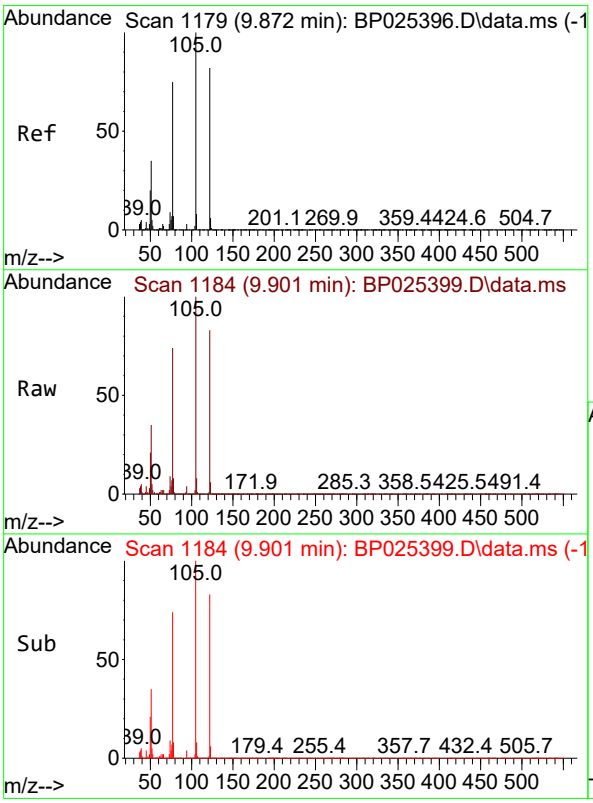
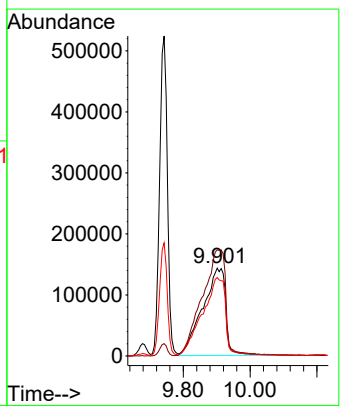


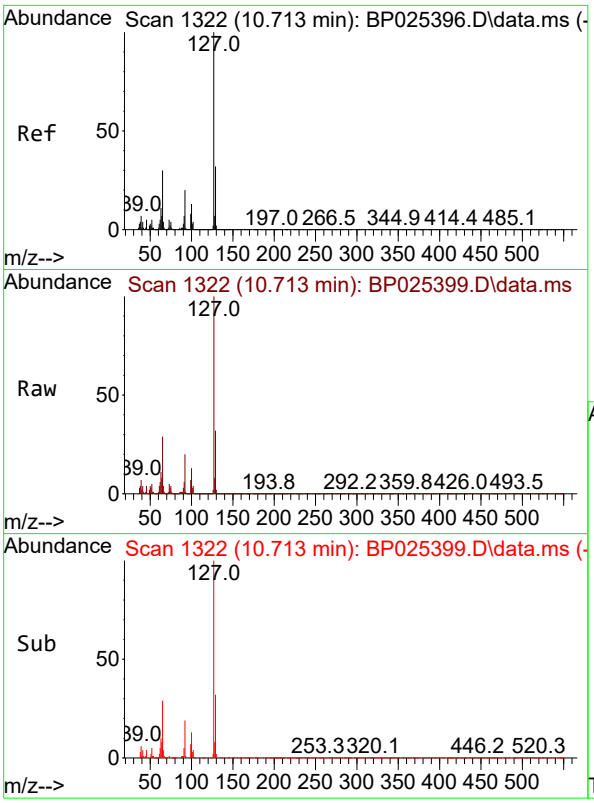


#32
Benzoic acid
Concen: 88.861 ng
RT: 9.901 min Scan# 1184
Delta R.T. 0.029 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:122 Resp: 686791

Ion	Ratio	Lower	Upper
122	100		
105	121.0	100.6	140.6
77	89.3	71.5	111.5

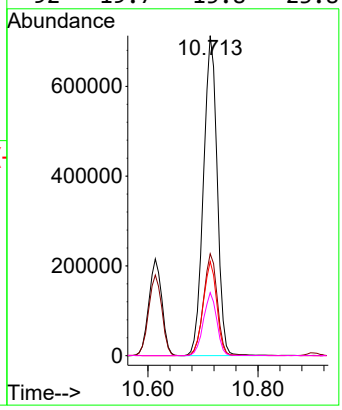




#33
4-Chloroaniline
Concen: 79.761 ng
RT: 10.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:127 Resp: 123243

Ion	Ratio	Lower	Upper
127	100		
129	31.9	25.4	38.2
65	29.4	23.8	35.6
92	19.7	15.8	23.8



Instrument :
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ClientSampleId :
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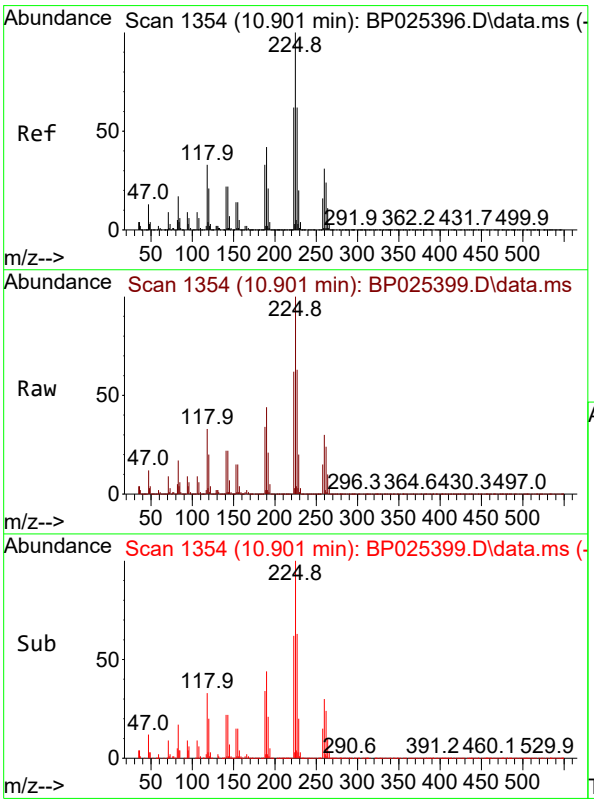
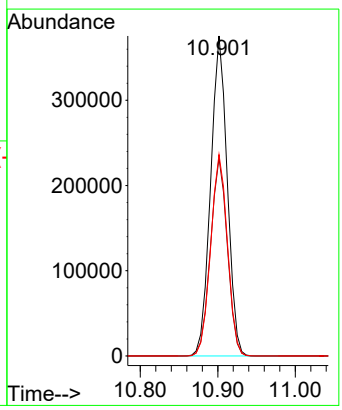
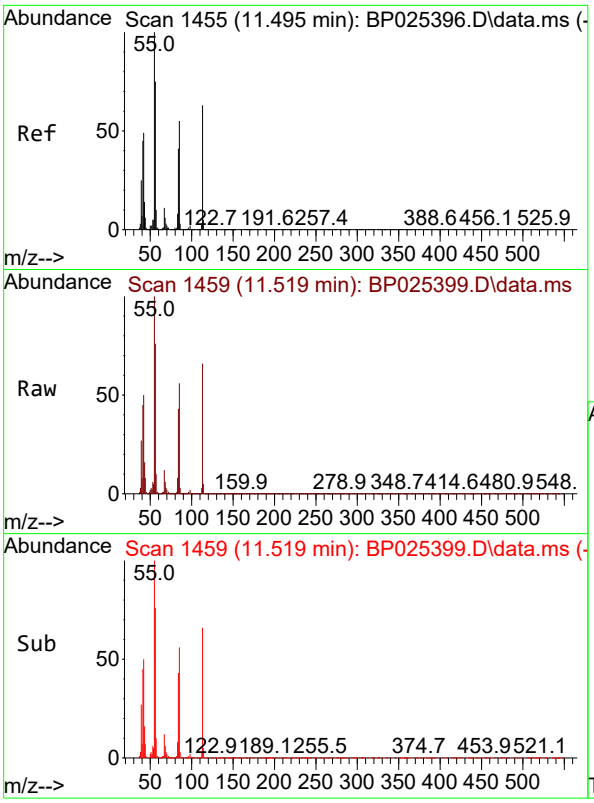


#34
Hexachlorobutadiene
Concen: 78.393 ng
RT: 10.901 min Scan# 1354
Delta R.T. 0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:225 Resp: 557922

Ion	Ratio	Lower	Upper
225	100		
223	61.8	50.0	75.0
227	62.9	49.7	74.5





#35
Caprolactam
Concen: 79.233 ng
RT: 11.519 min Scan# 14
Delta R.T. 0.024 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:113 Resp: 30287

Ion	Ratio	Lower	Upper
113	100		
55	151.5	140.0	180.0
56	115.6	100.0	140.0

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

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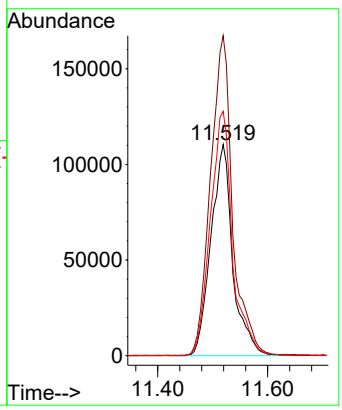
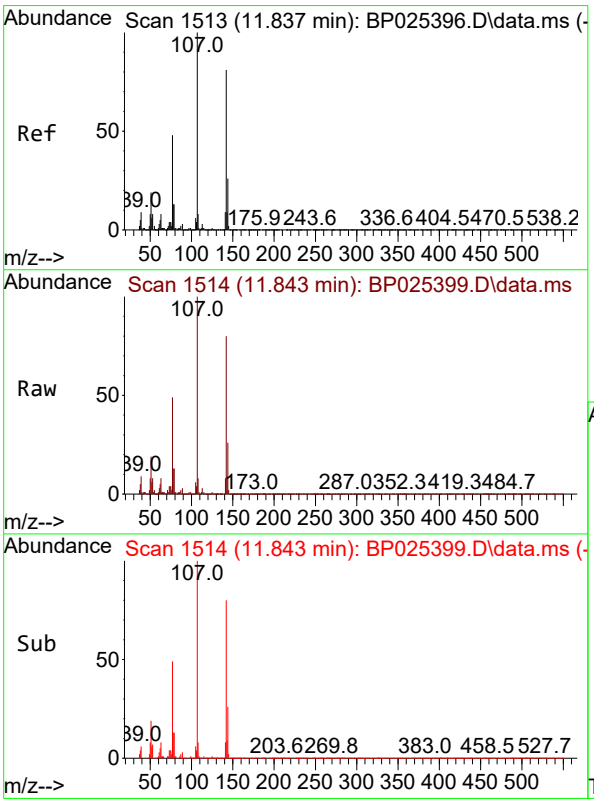
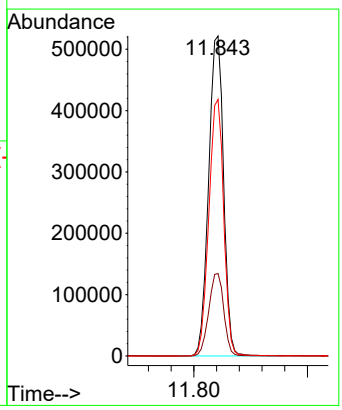


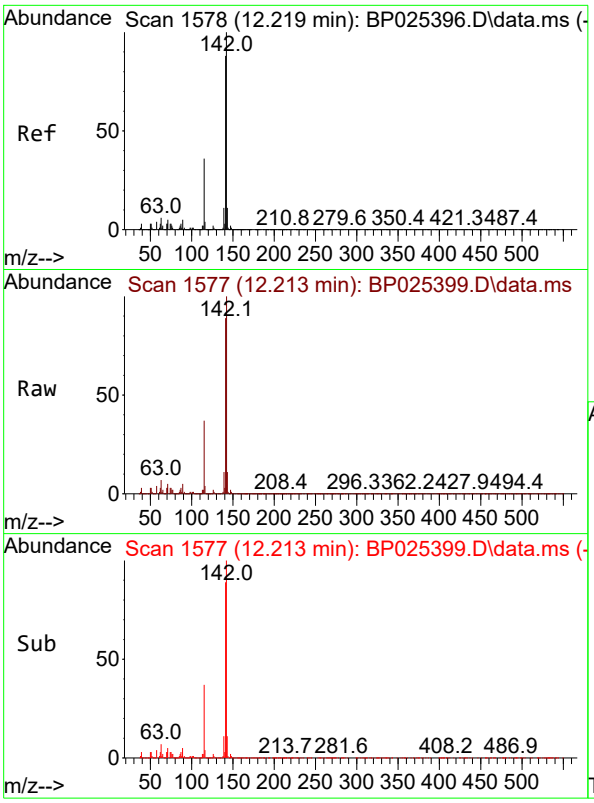


#36
4-Chloro-3-methylphenol
Concen: 79.399 ng
RT: 11.843 min Scan# 1514
Delta R.T. 0.006 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:107 Resp: 949779

Ion	Ratio	Lower	Upper
107	100		
144	25.7	21.0	31.4
142	80.2	64.6	97.0

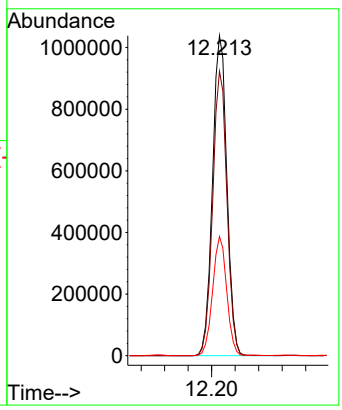




#37
2-Methylnaphthalene
Concen: 77.372 ng
RT: 12.213 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:142 Resp: 176132

Ion	Ratio	Lower	Upper
142	100		
141	88.9	70.3	105.5
115	37.2	28.9	43.3



Instrument :
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ClientSampleId :
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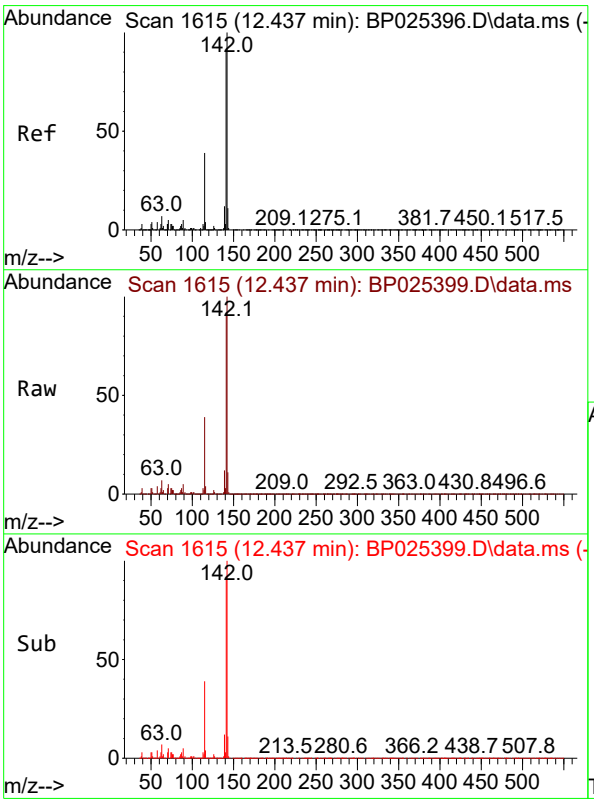
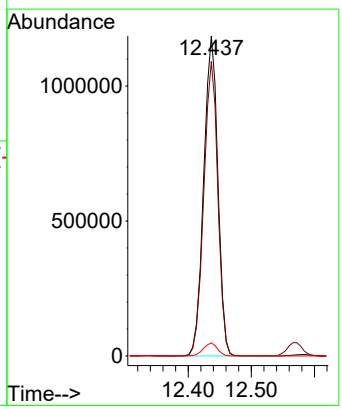
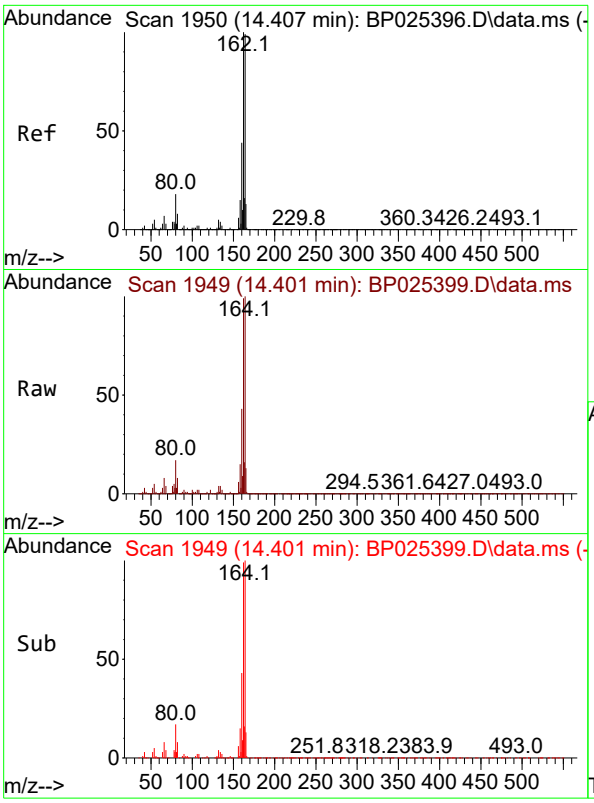


#38
1-Methylnaphthalene
Concen: 76.186 ng
RT: 12.437 min Scan# 1615
Delta R.T. 0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:142 Resp: 1844376

Ion	Ratio	Lower	Upper
142	100		
141	92.0	73.1	109.7
116	4.1	3.2	4.8

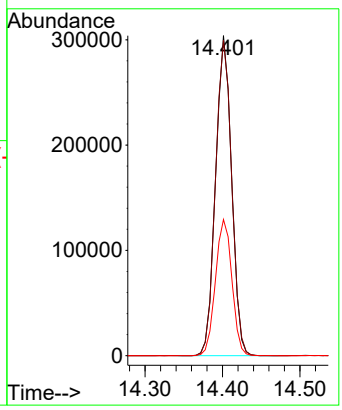




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.401 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:164 Resp: 43604

Ion	Ratio	Lower	Upper
164	100		
162	98.6	81.0	121.6
160	42.6	35.4	53.2



Instrument :
BNA_P
ClientSampleId :
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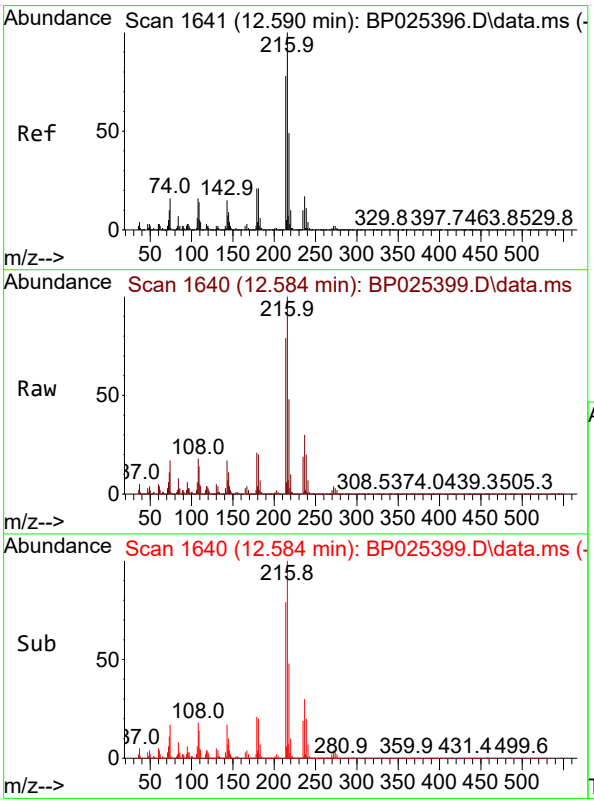
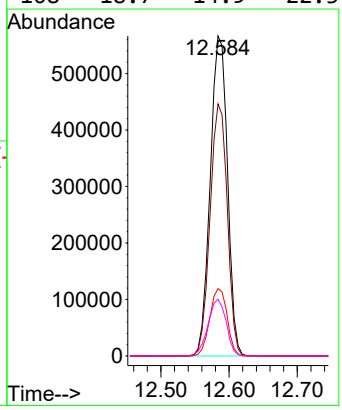
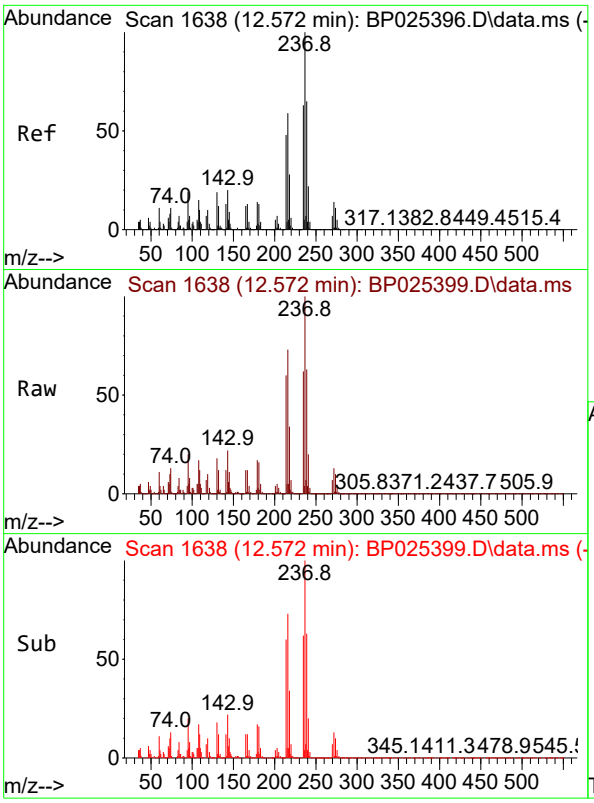


#40
1,2,4,5-Tetrachlorobenzene
Concen: 79.014 ng
RT: 12.584 min Scan# 1640
Delta R.T. -0.006 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:216 Resp: 995064

Ion	Ratio	Lower	Upper
216	100		
214	78.8	63.0	94.4
179	21.2	17.1	25.7
108	18.7	14.9	22.3





#41
Hexachlorocyclopentadiene
Concen: 87.916 ng
RT: 12.572 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:237 Resp: 66877

Ion	Ratio	Lower	Upper
237	100		
235	61.9	42.7	82.7
272	12.7	0.0	34.0

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

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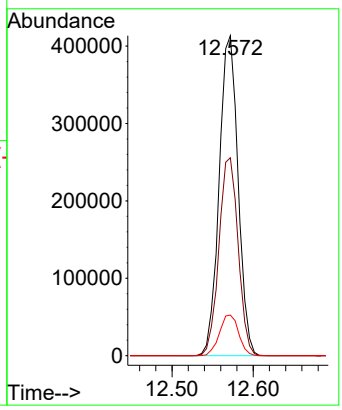
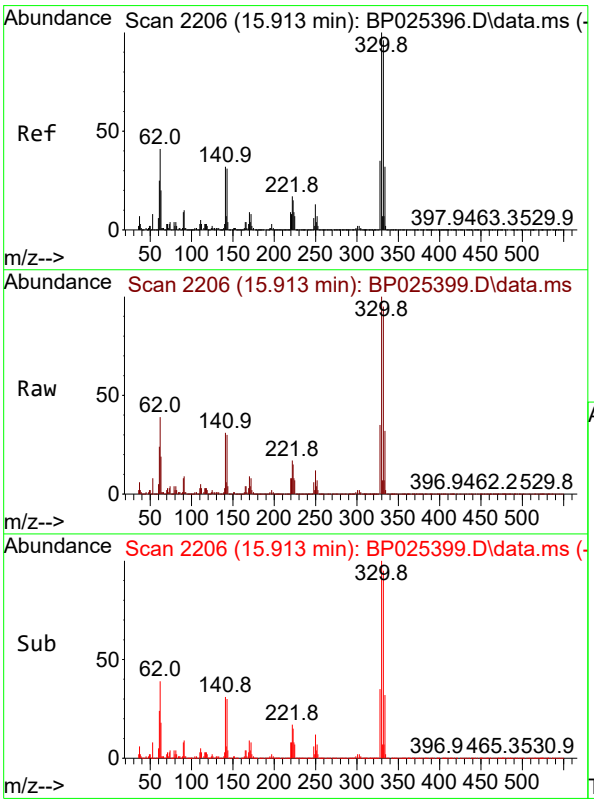
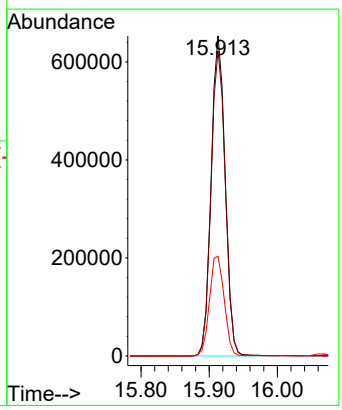


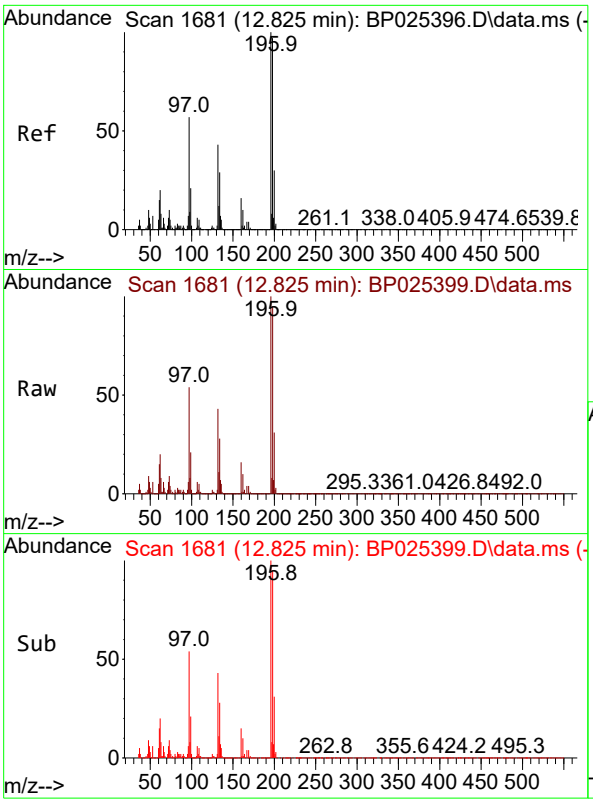


#42
2,4,6-Tribromophenol
Concen: 159.559 ng
RT: 15.913 min Scan# 2206
Delta R.T. 0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:330 Resp: 936489

Ion	Ratio	Lower	Upper
330	100		
332	96.5	77.3	115.9
141	32.8	26.6	39.8

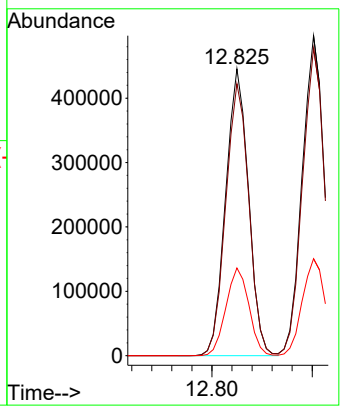




#43
2,4,6-Trichlorophenol
Concen: 83.096 ng
RT: 12.825 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:196 Resp: 70648

Ion	Ratio	Lower	Upper
196	100		
198	94.8	77.2	115.8
200	30.5	23.9	35.9



Instrument :
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ClientSampleId :
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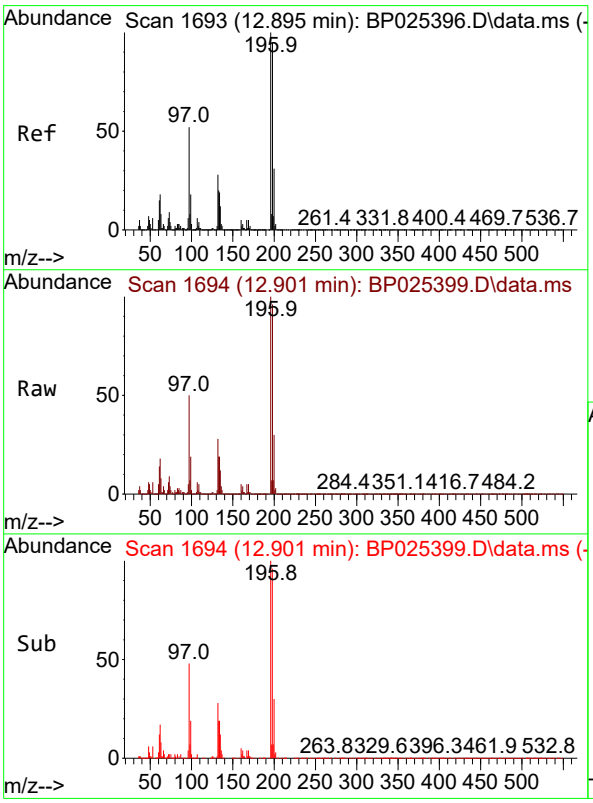
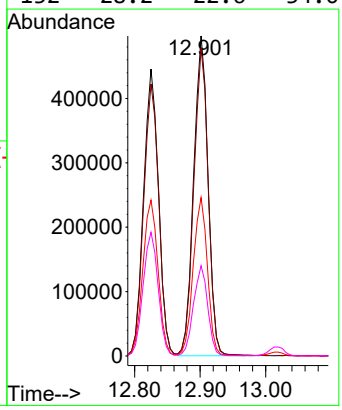
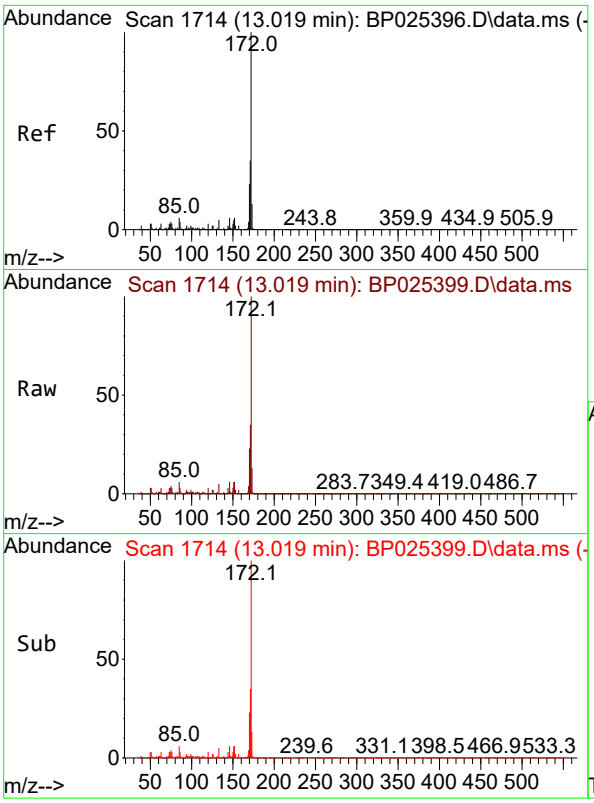


#44
2,4,5-Trichlorophenol
Concen: 81.870 ng
RT: 12.901 min Scan# 1694
Delta R.T. 0.006 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:196 Resp: 762861

Ion	Ratio	Lower	Upper
196	100		
198	96.1	76.2	114.2
97	49.5	41.2	61.8
132	28.2	22.6	34.0

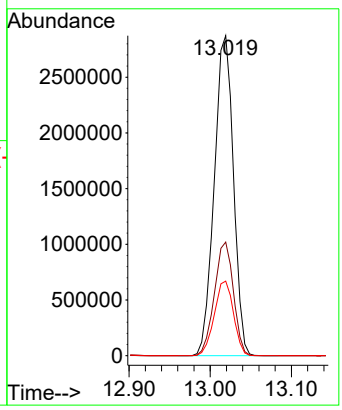




#45
2-Fluorobiphenyl
Concen: 147.705 ng
RT: 13.019 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:172 Resp: 471259

Ion	Ratio	Lower	Upper
172	100		
171	35.5	28.1	42.1
170	23.3	18.6	28.0



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

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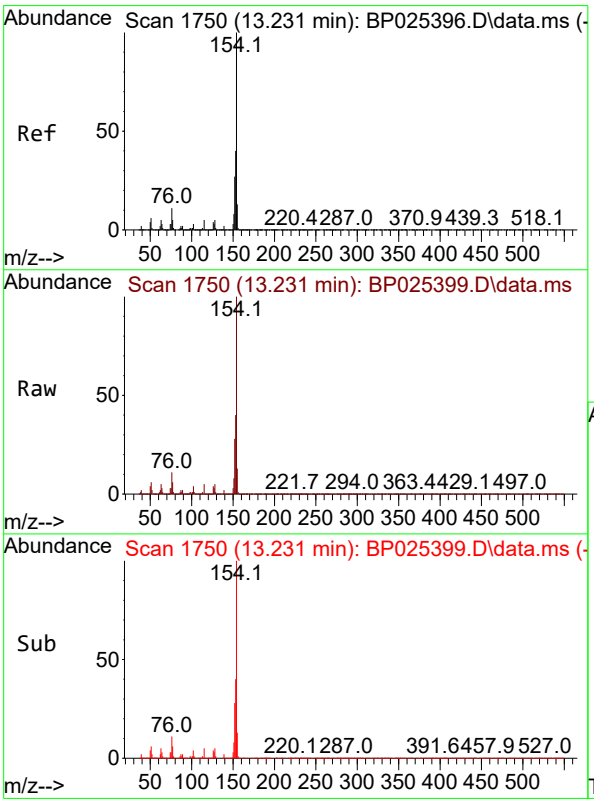
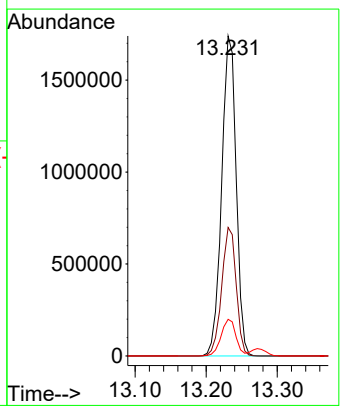
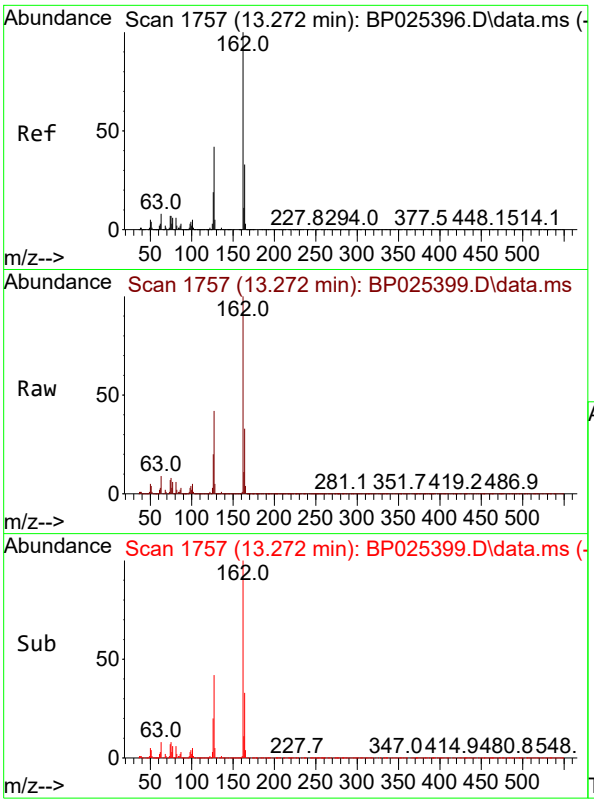


#46
1,1'-Biphenyl
Concen: 77.476 ng
RT: 13.231 min Scan# 1750
Delta R.T. 0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:154 Resp: 2453536

Ion	Ratio	Lower	Upper
154	100		
153	40.2	19.5	59.5
76	11.5	0.0	31.1

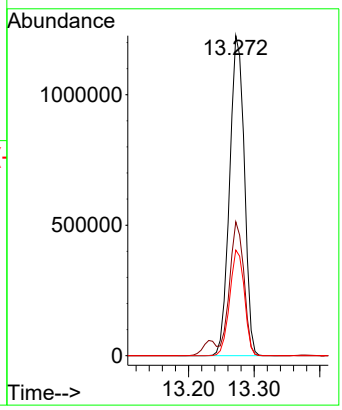




#47
2-Chloronaphthalene
Concen: 77.804 ng
RT: 13.272 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:162 Resp: 191812

Ion	Ratio	Lower	Upper
162	100		
127	41.9	33.4	50.2
164	33.0	26.2	39.2



Instrument :
BNA_P
ClientSampleId :
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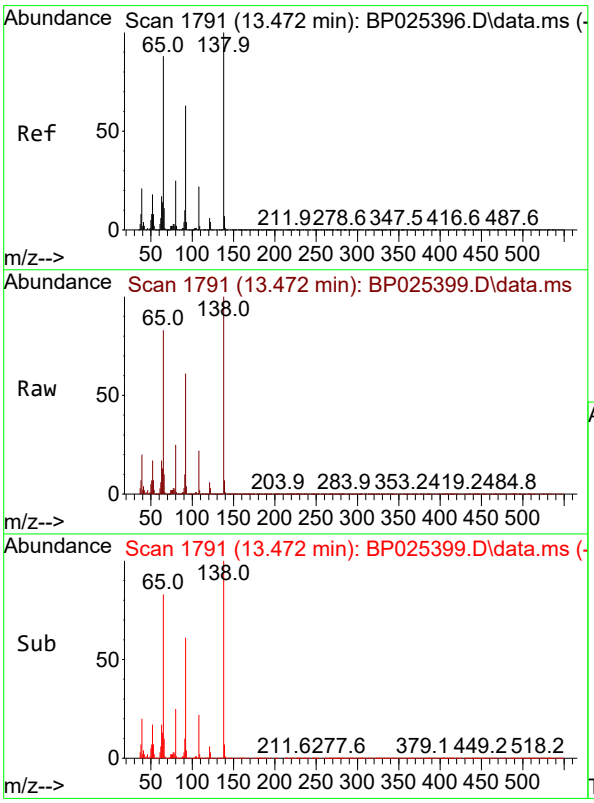
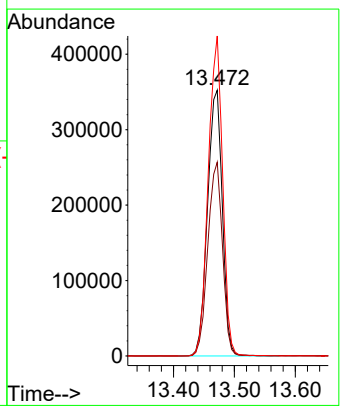
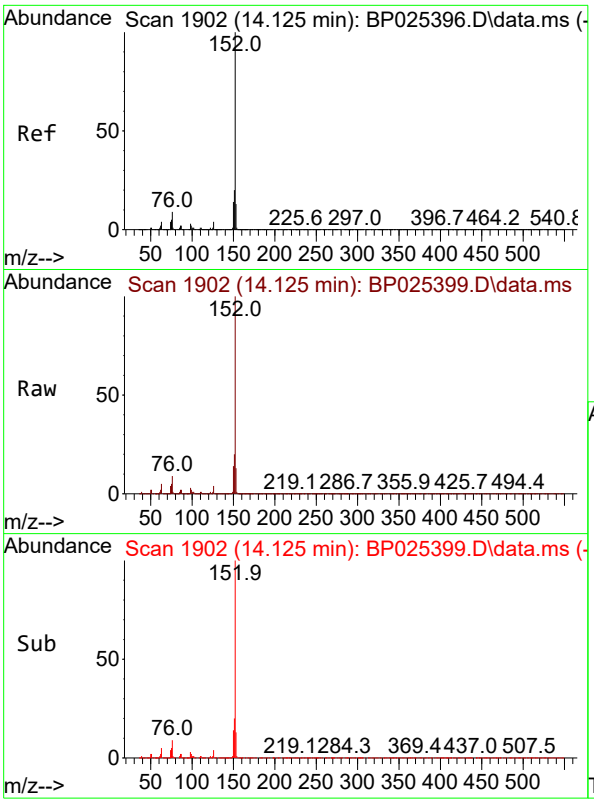


#48
2-Nitroaniline
Concen: 82.788 ng
RT: 13.472 min Scan# 1791
Delta R.T. 0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion: 65 Resp: 594696

Ion	Ratio	Lower	Upper
65	100		
92	72.9	57.6	86.4
138	120.4	91.0	136.6

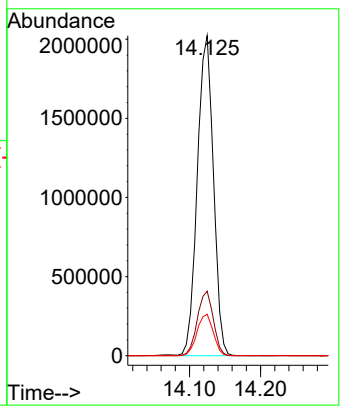




#49
Acenaphthylene
Concen: 78.318 ng
RT: 14.125 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:152 Resp: 319491

Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.0	24.0
153	13.0	10.6	15.8



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

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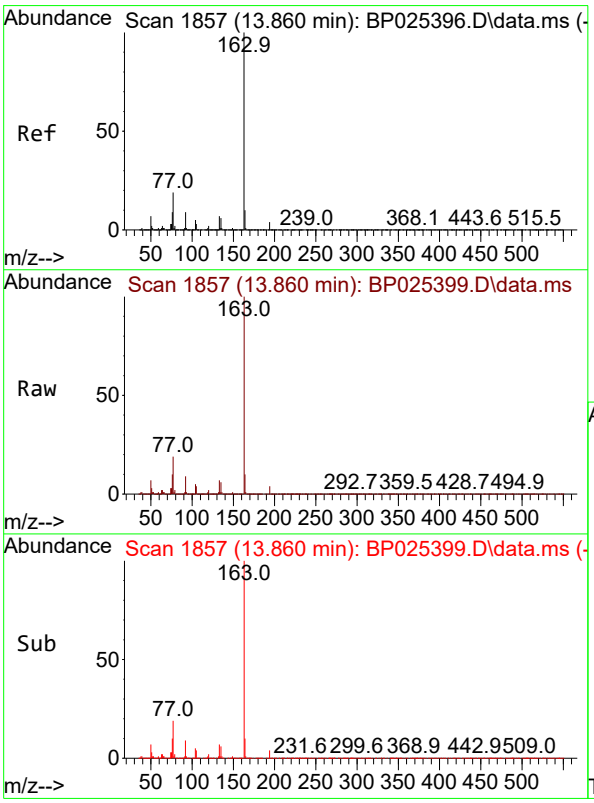
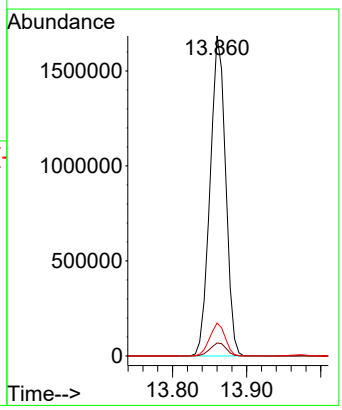
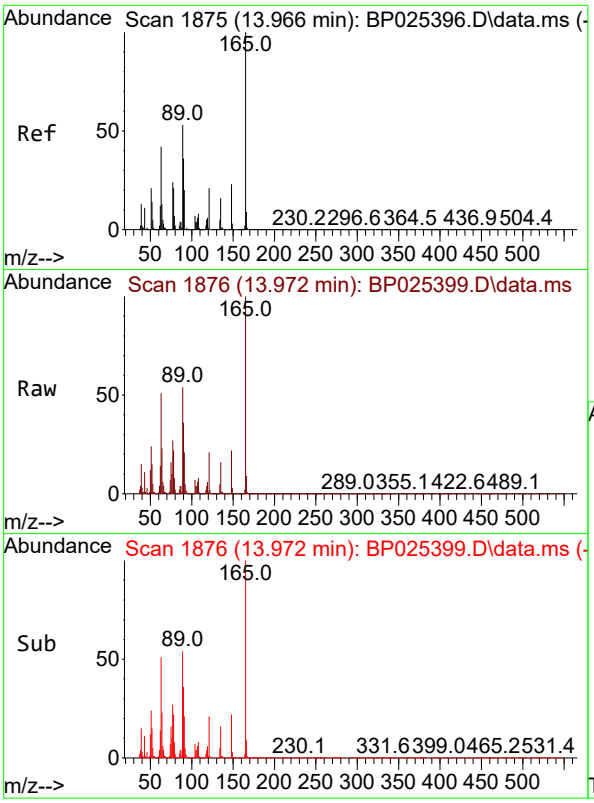


#50
Dimethylphthalate
Concen: 76.632 ng
RT: 13.860 min Scan# 1857
Delta R.T. 0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:163 Resp: 2446951

Ion	Ratio	Lower	Upper
163	100		
194	4.1	3.4	5.0
164	10.3	7.9	11.9





#51
2,6-Dinitrotoluene
Concen: 80.639 ng
RT: 13.972 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:165 Resp: 54271

Ion	Ratio	Lower	Upper
165	100		
63	51.0	40.9	61.3
89	54.4	42.1	63.1

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

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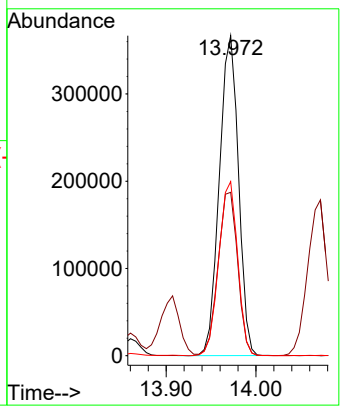
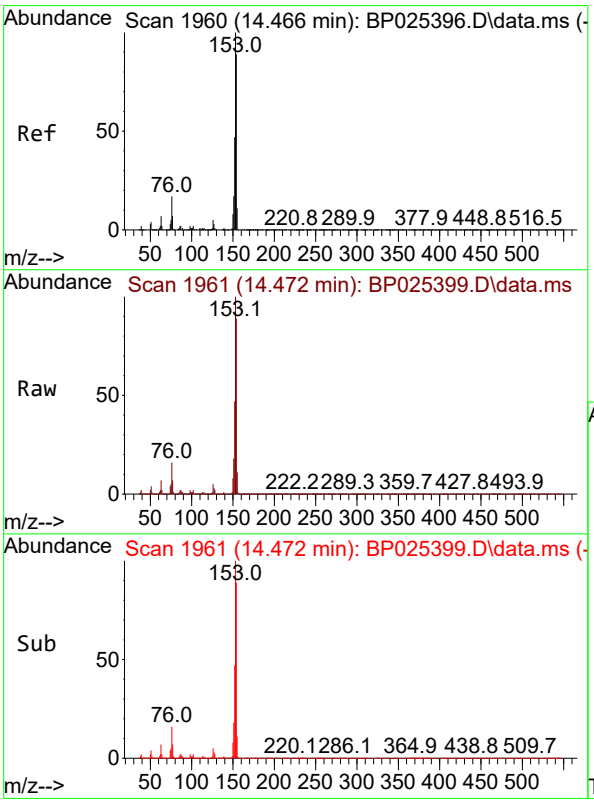
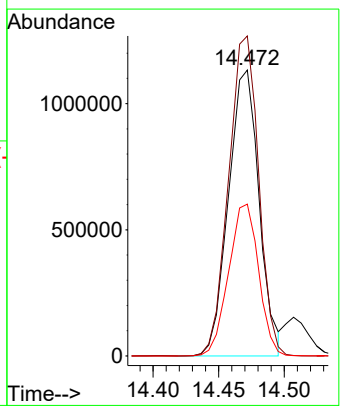


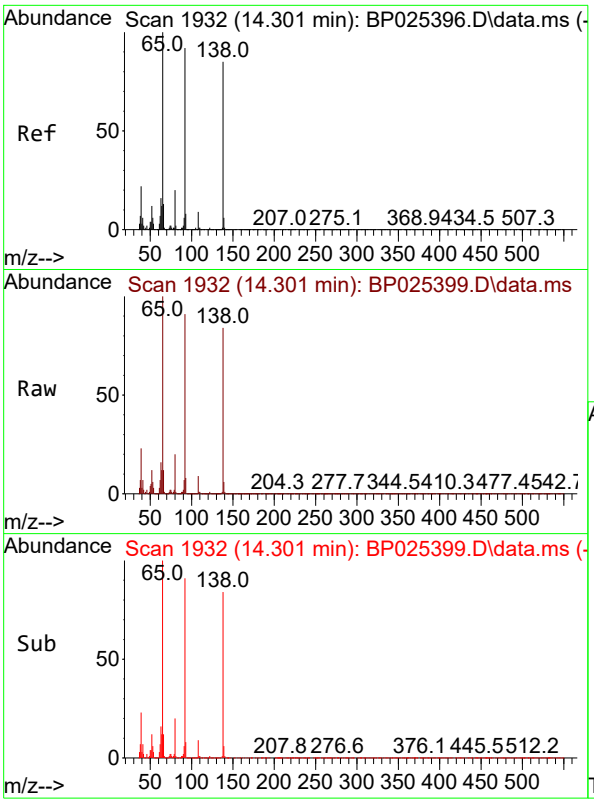


#52
Acenaphthene
Concen: 76.902 ng
RT: 14.472 min Scan# 1961
Delta R.T. 0.006 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:154 Resp: 1841448

Ion	Ratio	Lower	Upper
154	100		
153	111.9	90.2	135.2
152	53.1	42.1	63.1





#53
3-Nitroaniline
Concen: 81.627 ng
RT: 14.301 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Instrument :
BNA_P
ClientSampleId :
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Tgt Ion:138 Resp: 61808

Ion	Ratio	Lower	Upper
138	100		
108	11.1	8.3	12.5
92	108.1	86.2	129.2

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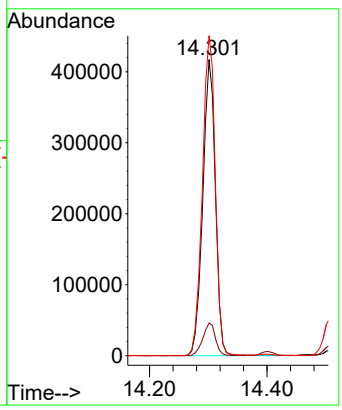
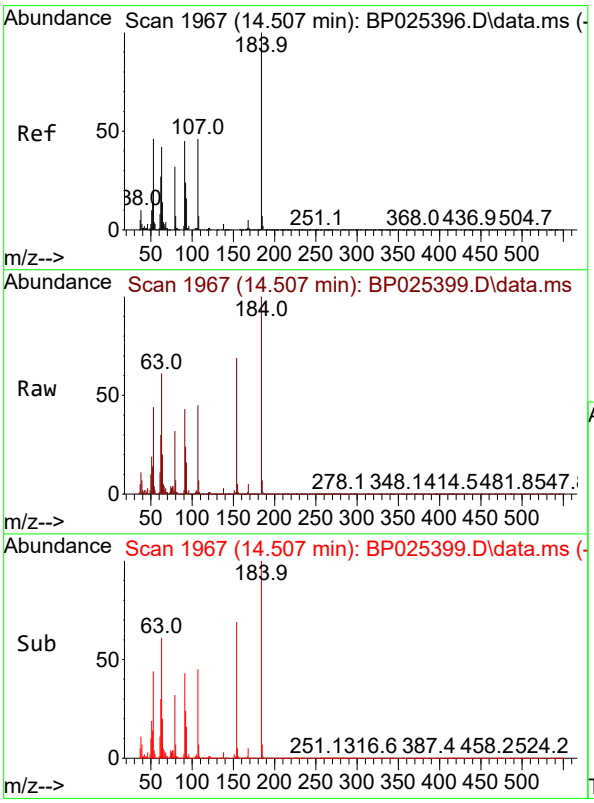
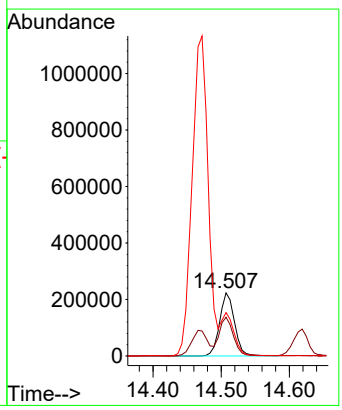


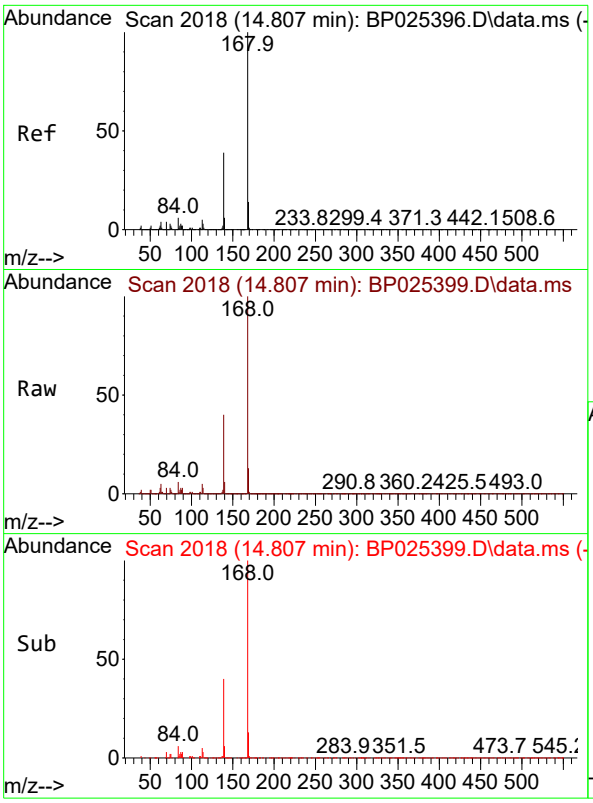


#54
2,4-Dinitrophenol
Concen: 94.356 ng
RT: 14.507 min Scan# 1967
Delta R.T. 0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:184 Resp: 339125

Ion	Ratio	Lower	Upper
184	100		
63	61.4	49.4	74.2
154	68.6	54.6	82.0

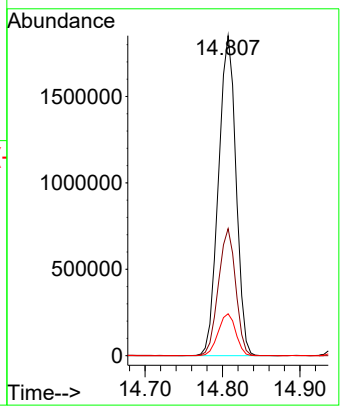




#55
Dibenzofuran
Concen: 77.023 ng
RT: 14.807 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:168 Resp: 291593

Ion	Ratio	Lower	Upper
168	100		
139	39.7	31.5	47.3
169	13.1	10.9	16.3



Instrument :
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ClientSampleId :
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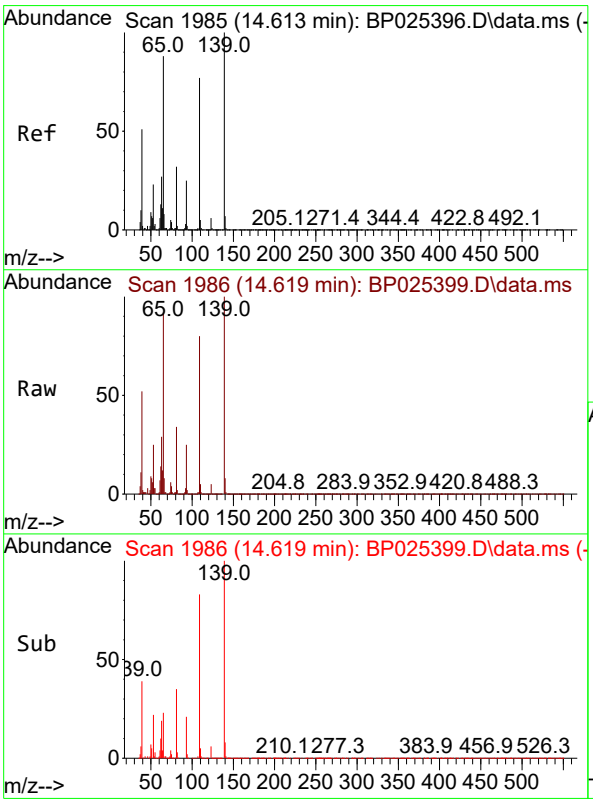
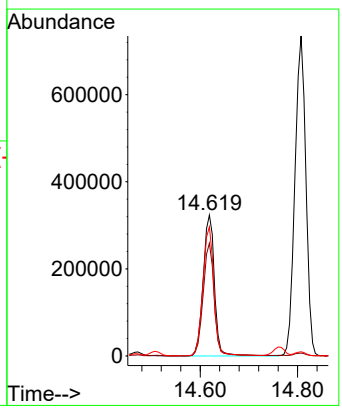
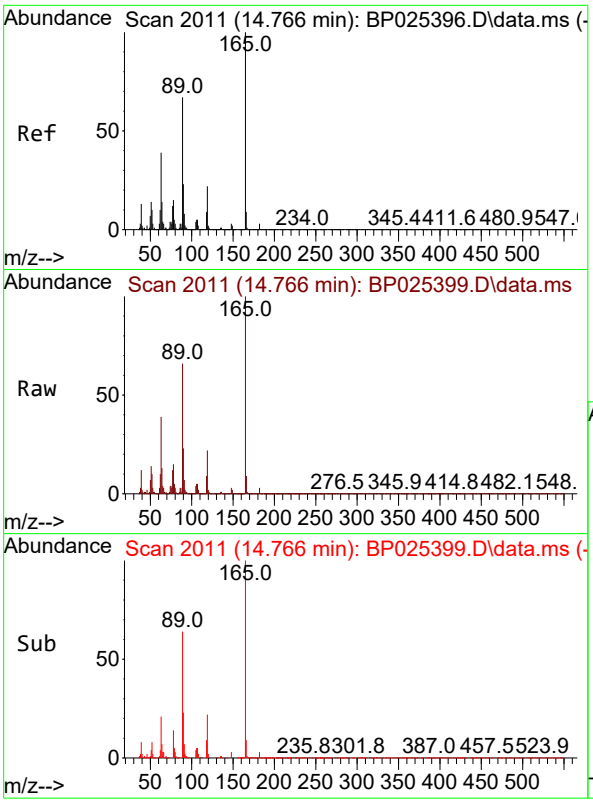


#56
4-Nitrophenol
Concen: 83.618 ng
RT: 14.619 min Scan# 1986
Delta R.T. 0.006 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:139 Resp: 520294

Ion	Ratio	Lower	Upper
139	100		
109	80.0	56.6	96.6
65	91.5	68.2	108.2

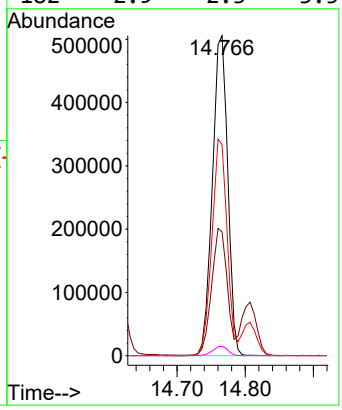




#57
2,4-Dinitrotoluene
Concen: 82.399 ng
RT: 14.766 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:165 Resp: 79121

Ion	Ratio	Lower	Upper
165	100		
63	38.7	31.4	47.2
89	66.0	53.3	79.9
182	2.9	2.3	3.5



Instrument :
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ClientSampleId :
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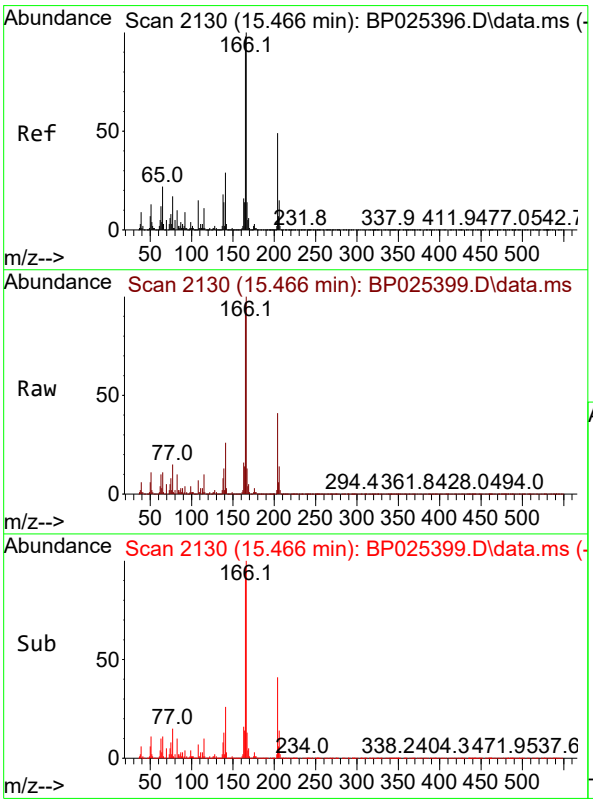
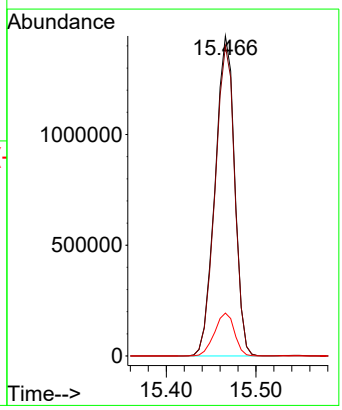
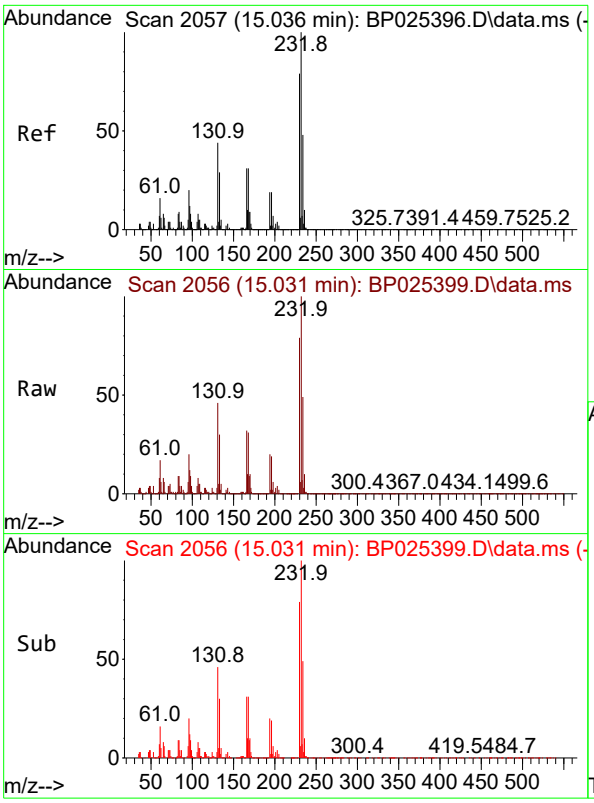


#58
Fluorene
Concen: 73.164 ng
RT: 15.466 min Scan# 2130
Delta R.T. 0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:166 Resp: 2185593

Ion	Ratio	Lower	Upper
166	100		
165	96.8	78.8	118.2
167	13.4	11.0	16.4

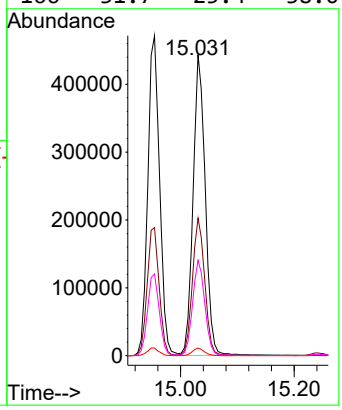




#59
2,3,4,6-Tetrachlorophenol
Concen: 80.448 ng
RT: 15.031 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:232 Resp: 66189

Ion	Ratio	Lower	Upper
232	100		
131	45.9	37.0	55.6
130	2.5	1.9	2.9
166	31.7	25.4	38.0



Instrument :
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ClientSampleId :
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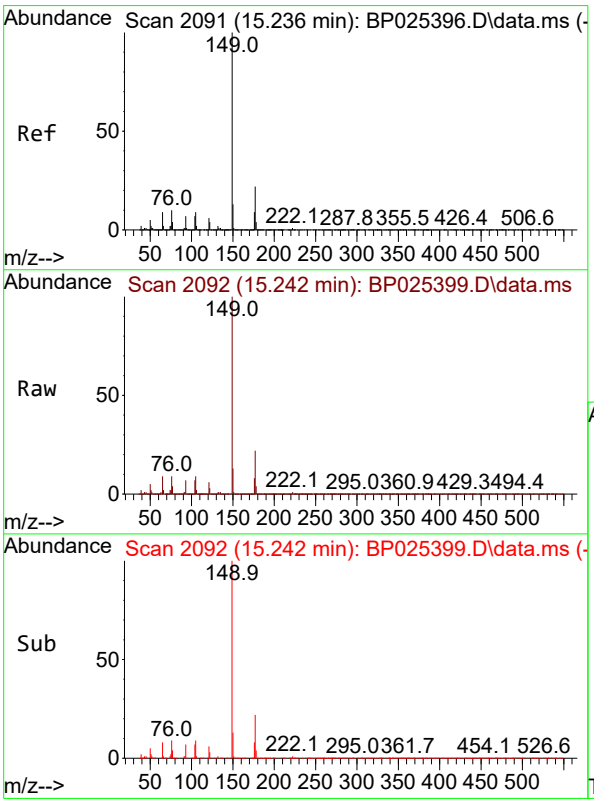
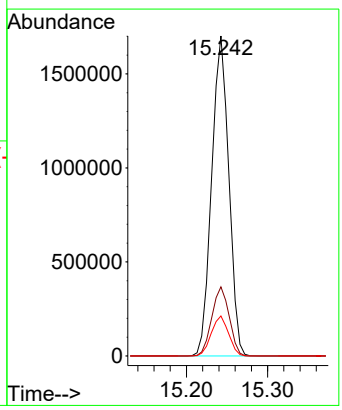
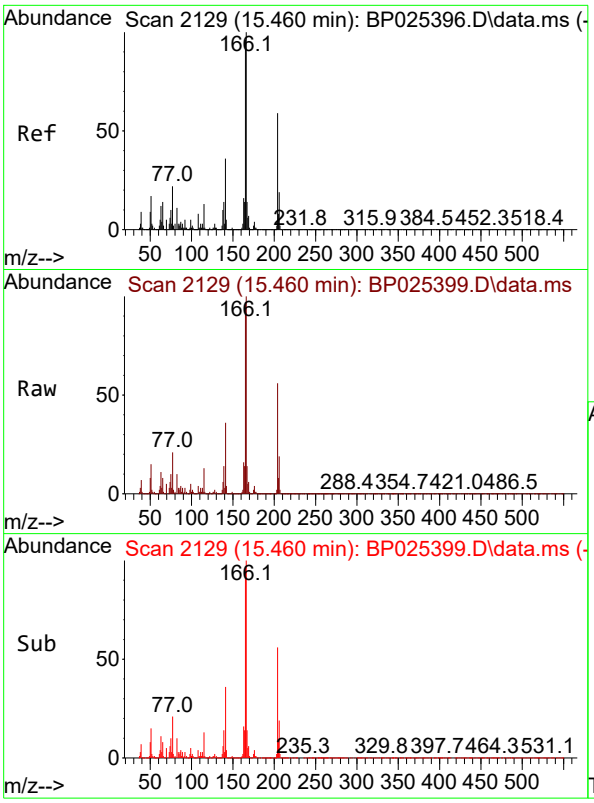


#60
Diethylphthalate
Concen: 76.870 ng
RT: 15.242 min Scan# 2092
Delta R.T. 0.006 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:149 Resp: 2494087

Ion	Ratio	Lower	Upper
149	100		
177	21.6	17.3	25.9
150	12.5	10.3	15.5

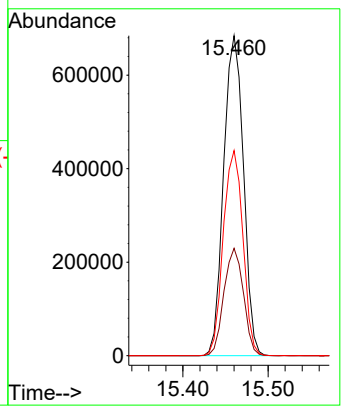




#61
4-Chlorophenyl-phenylether
Concen: 74.388 ng
RT: 15.460 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:204 Resp: 110515

Ion	Ratio	Lower	Upper
204	100		
206	33.6	25.8	38.8
141	64.1	49.4	74.2



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

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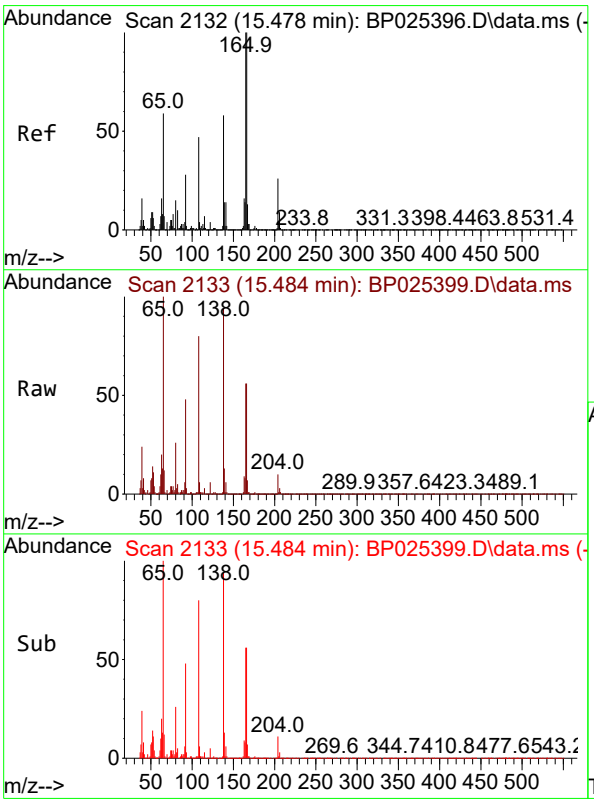
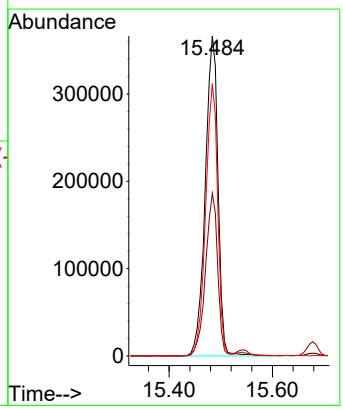
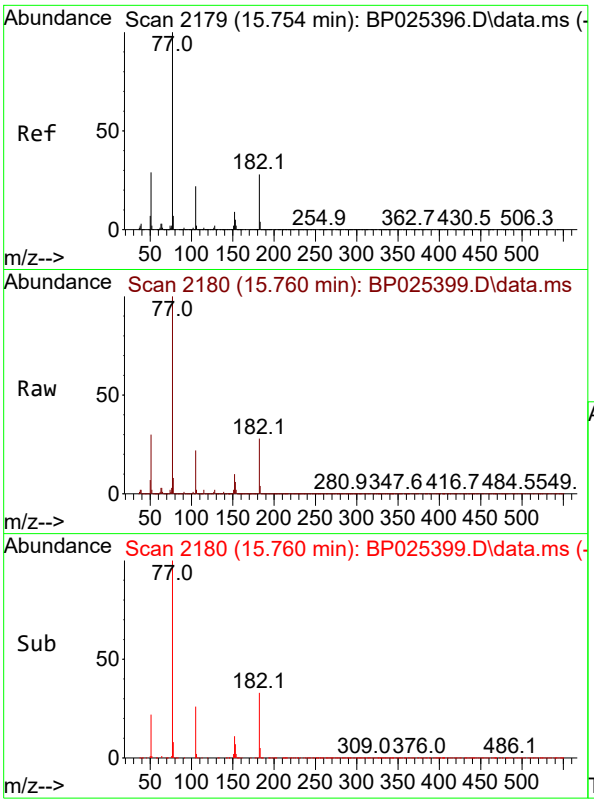


#62
4-Nitroaniline
Concen: 80.710 ng
RT: 15.484 min Scan# 2133
Delta R.T. 0.006 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:138 Resp: 626525

Ion	Ratio	Lower	Upper
138	100		
92	50.8	29.1	69.1
108	85.1	61.5	101.5

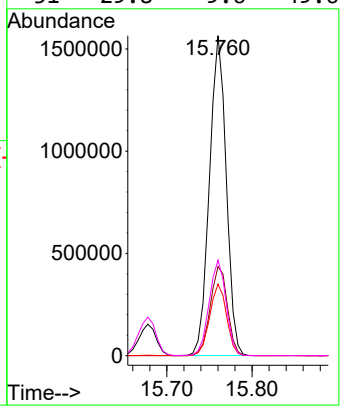




#63
Azobenzene
Concen: 77.017 ng
RT: 15.760 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion: 77 Resp: 213967

Ion	Ratio	Lower	Upper
77	100		
182	27.9	7.5	47.5
105	22.3	2.1	42.1
51	29.8	9.6	49.6



Instrument :
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ClientSampleId :
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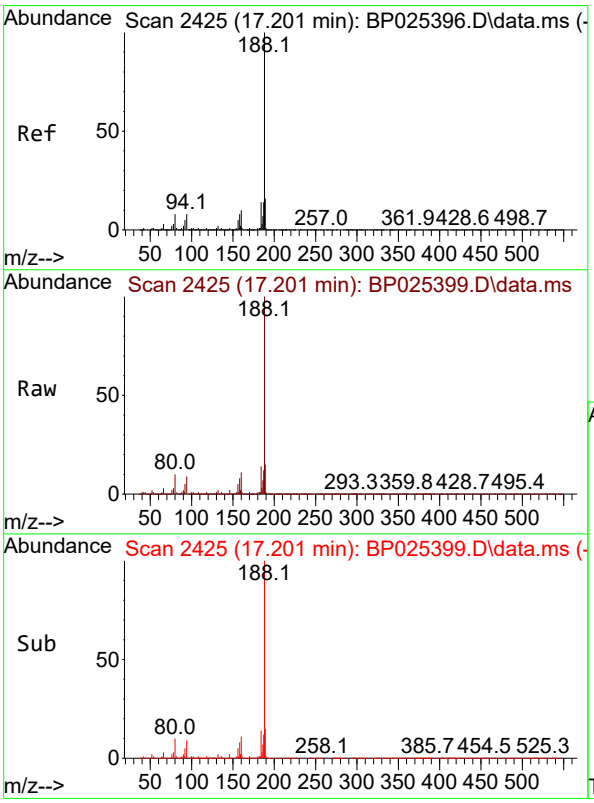
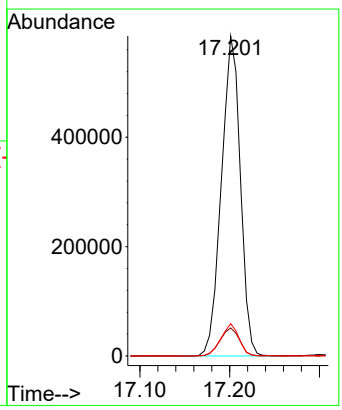
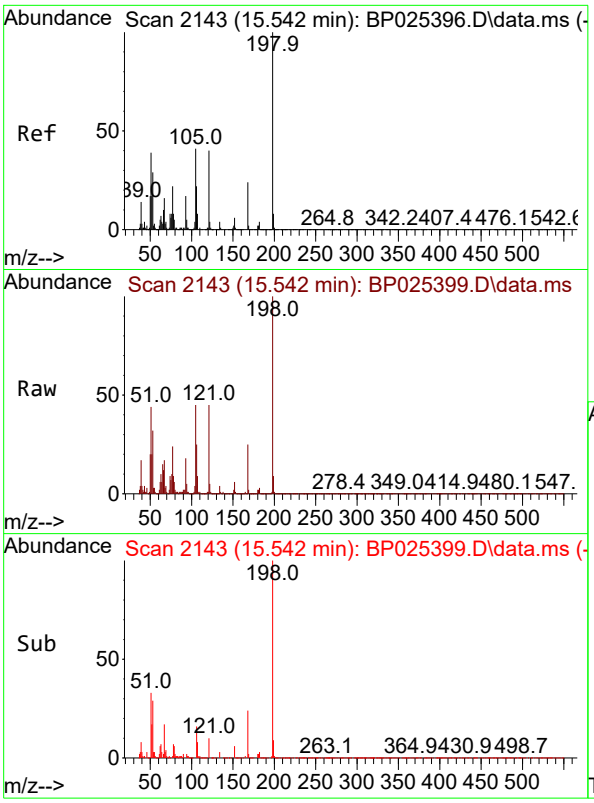


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.201 min Scan# 2425
Delta R.T. 0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:188 Resp: 856946

Ion	Ratio	Lower	Upper
188	100		
94	8.7	6.6	10.0
80	10.1	6.7	10.1#

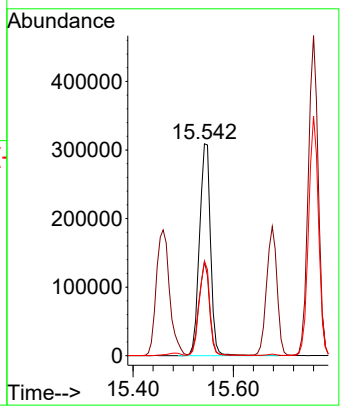




#65
4,6-Dinitro-2-methylphenol
Concen: 88.473 ng
RT: 15.542 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:198 Resp: 47260

Ion	Ratio	Lower	Upper
198	100		
51	44.3	19.6	59.6
105	44.6	20.9	60.9



Instrument :
BNA_P
ClientSampleId :
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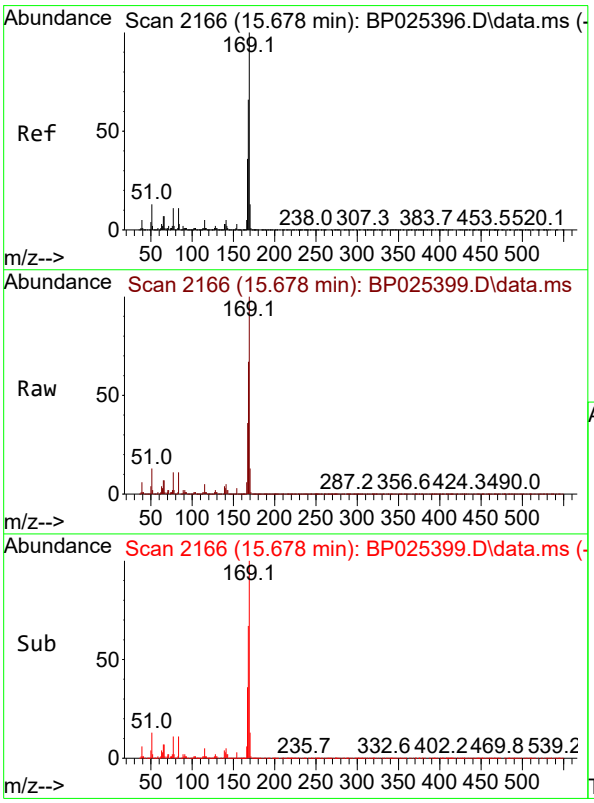
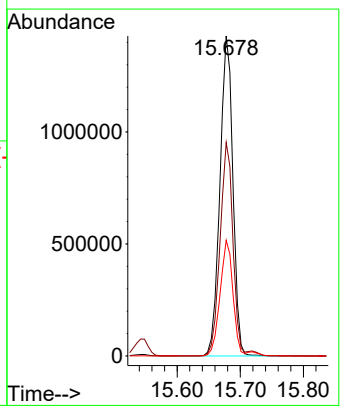
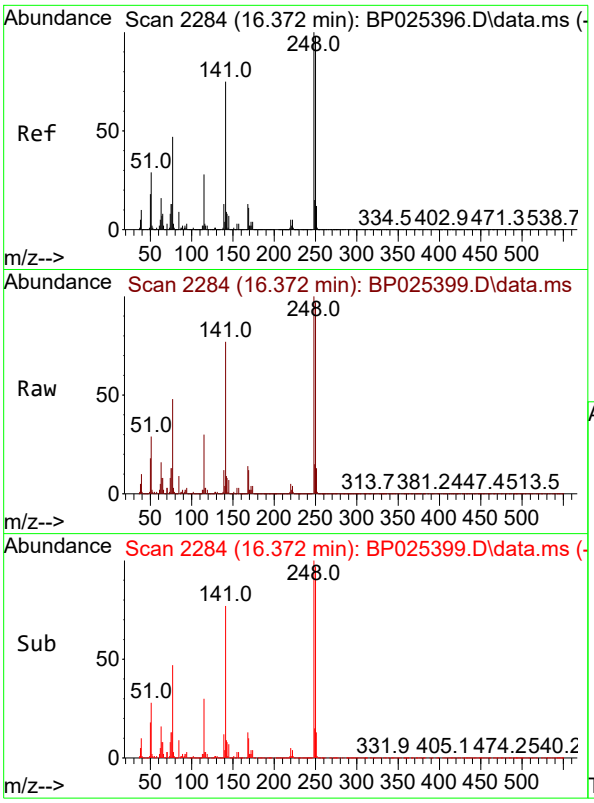


#66
n-Nitrosodiphenylamine
Concen: 77.866 ng
RT: 15.678 min Scan# 2166
Delta R.T. 0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:169 Resp: 2034782

Ion	Ratio	Lower	Upper
169	100		
168	66.7	53.2	79.8
167	36.2	28.7	43.1

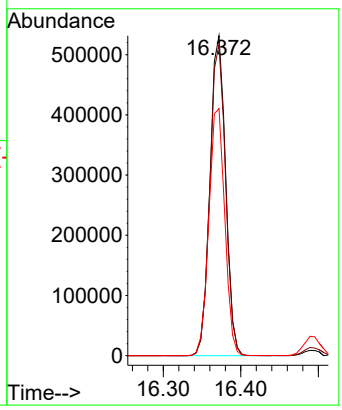




#67
4-Bromophenyl-phenylether
Concen: 79.144 ng
RT: 16.372 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:248 Resp: 74591

Ion	Ratio	Lower	Upper
248	100		
250	97.2	78.2	117.2
141	77.2	59.6	89.4



Instrument :
BNA_P
ClientSampleId :
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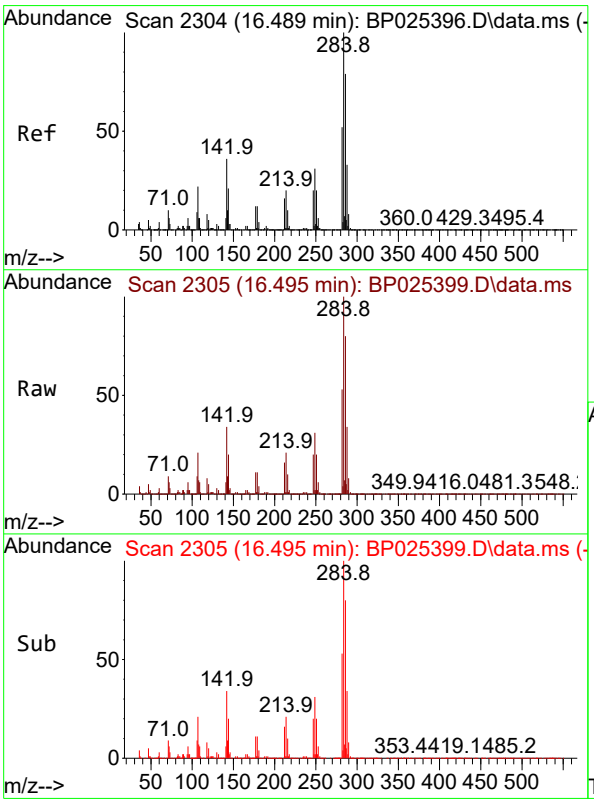
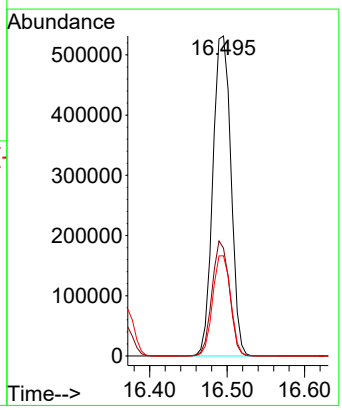
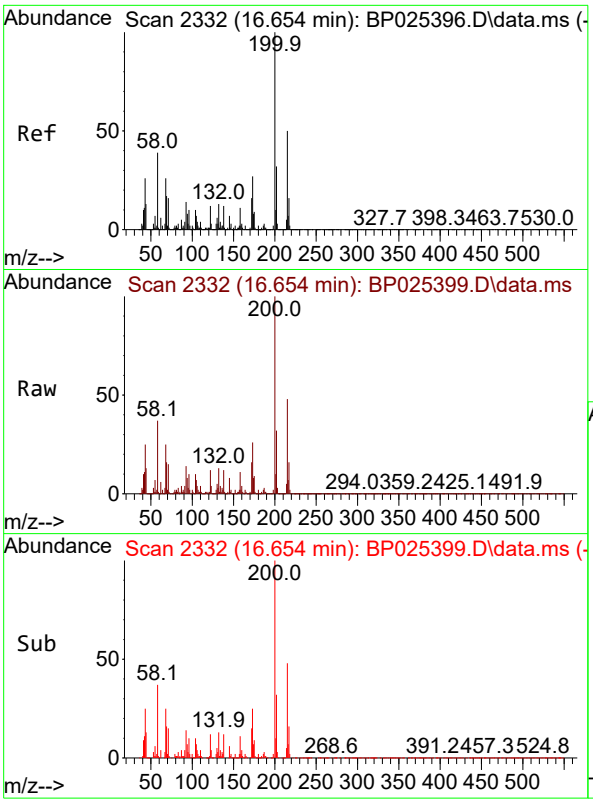


#68
Hexachlorobenzene
Concen: 78.721 ng
RT: 16.495 min Scan# 2305
Delta R.T. 0.006 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:284 Resp: 860051

Ion	Ratio	Lower	Upper
284	100		
142	33.7	29.1	43.7
249	31.3	25.0	37.4

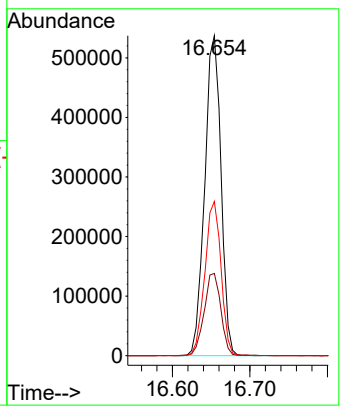




#69
Atrazine
Concen: 80.064 ng
RT: 16.654 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:200 Resp: 78353

Ion	Ratio	Lower	Upper
200	100		
173	25.7	6.7	46.7
215	48.2	29.7	69.7



Instrument :
BNA_P
ClientSampleId :
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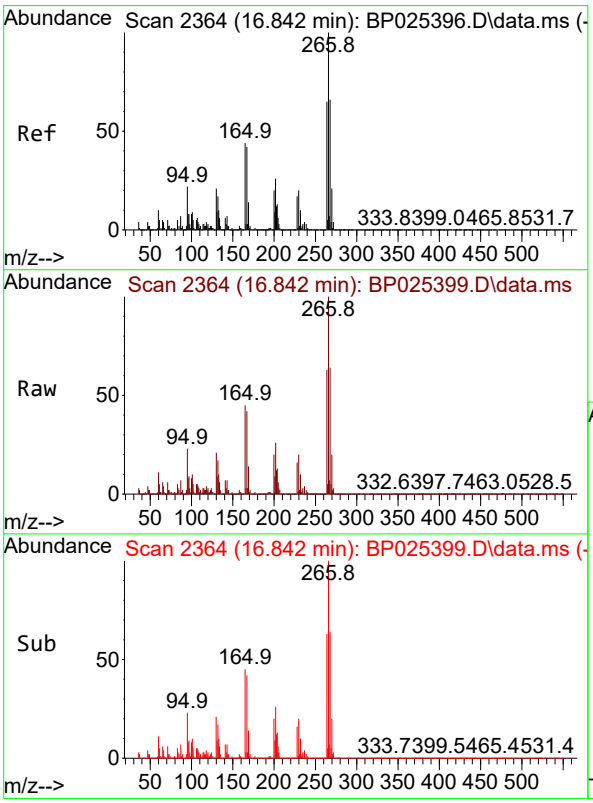
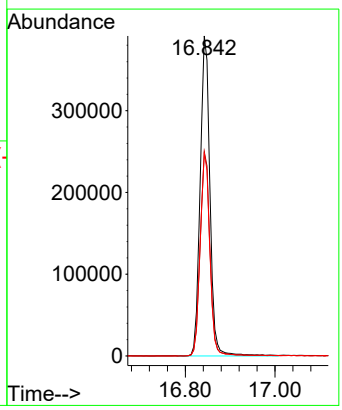
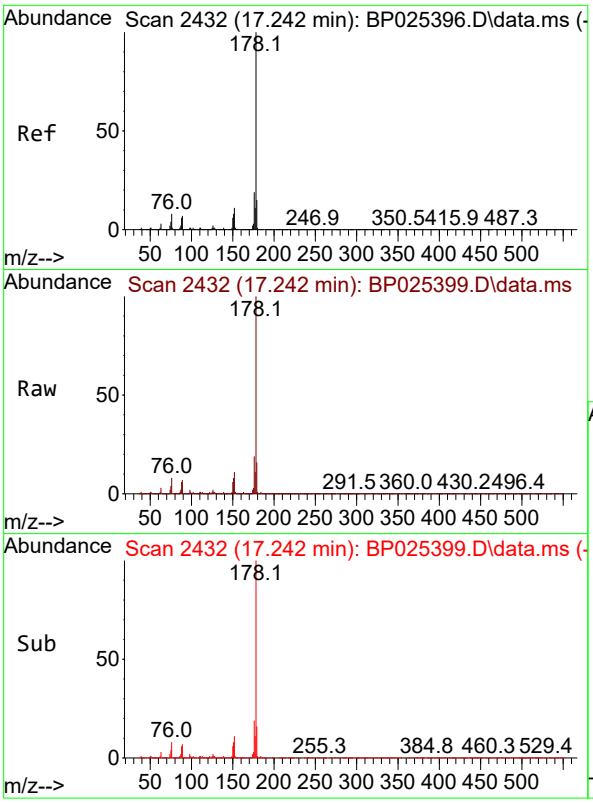


#70
Pentachlorophenol
Concen: 85.502 ng
RT: 16.842 min Scan# 2364
Delta R.T. 0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:266 Resp: 589673

Ion	Ratio	Lower	Upper
266	100		
268	63.8	52.6	79.0
264	63.4	52.0	78.0

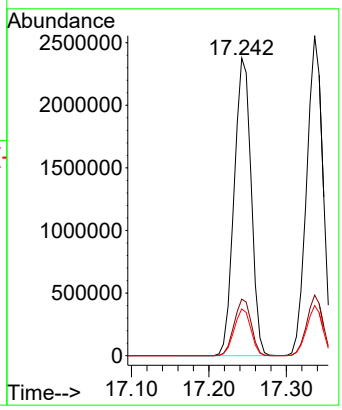




#71
Phenanthrene
Concen: 76.972 ng
RT: 17.242 min Scan# 24
Delta R.T. 0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:178 Resp: 362345

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.5	23.3
179	15.7	12.2	18.4



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

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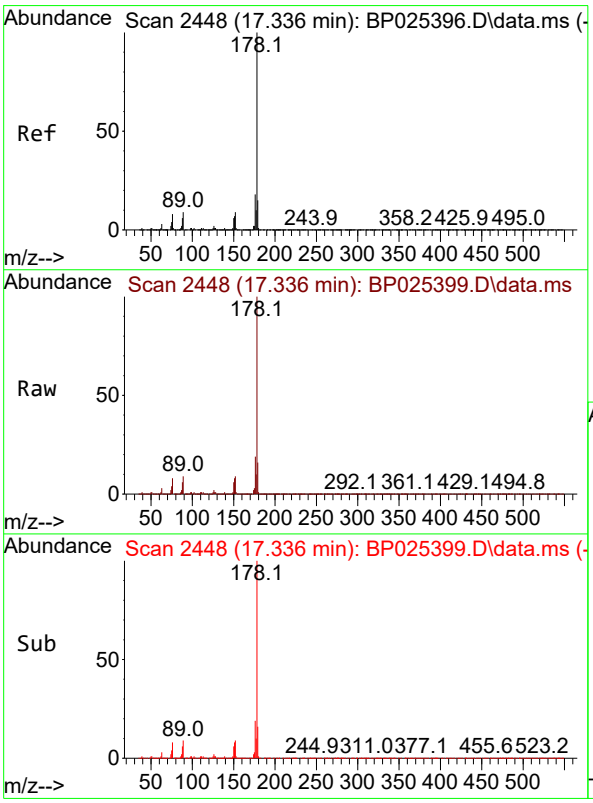
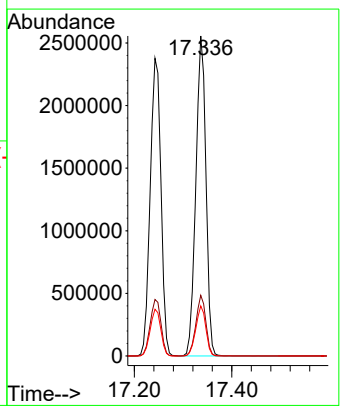
Supervised By :Jagrut Upadhyay 08/15/2025

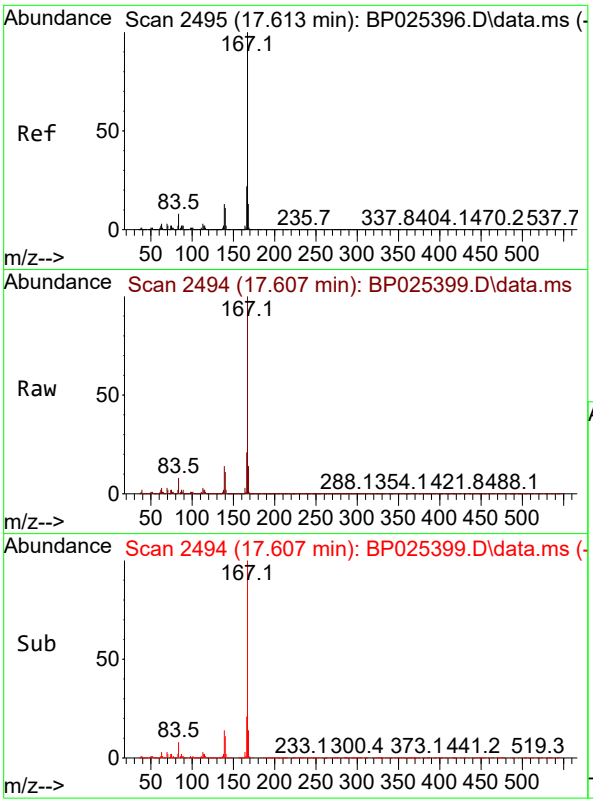


#72
Anthracene
Concen: 77.014 ng
RT: 17.336 min Scan# 2448
Delta R.T. 0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:178 Resp: 3702277

Ion	Ratio	Lower	Upper
178	100		
176	18.9	14.7	22.1
179	15.7	12.2	18.2

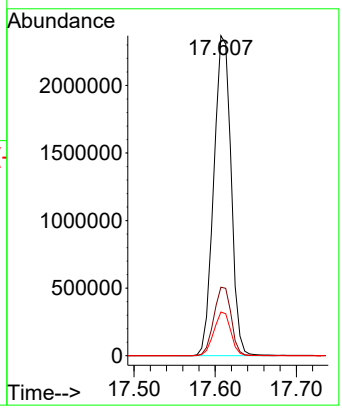




#73
Carbazole
Concen: 77.368 ng
RT: 17.607 min Scan# 24
Delta R.T. -0.006 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:167 Resp: 350327

Ion	Ratio	Lower	Upper
167	100		
166	21.4	17.5	26.3
139	13.7	10.6	16.0



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

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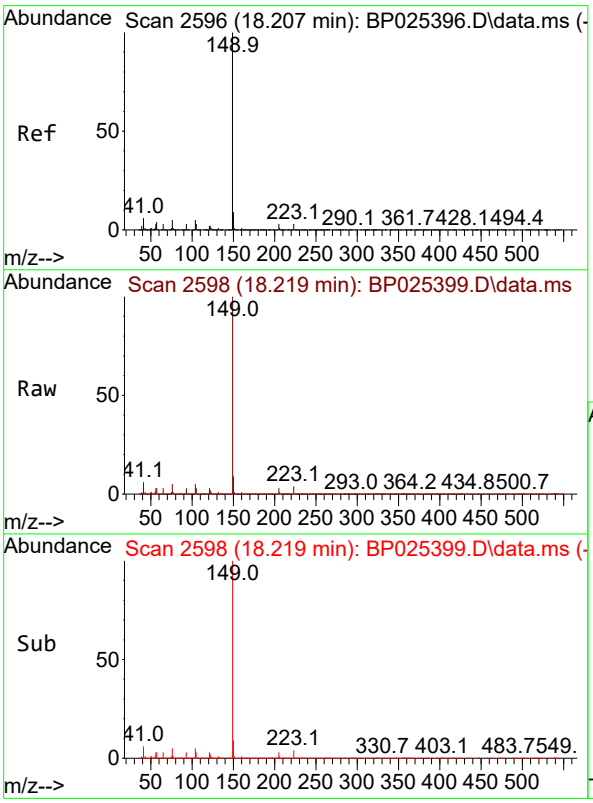
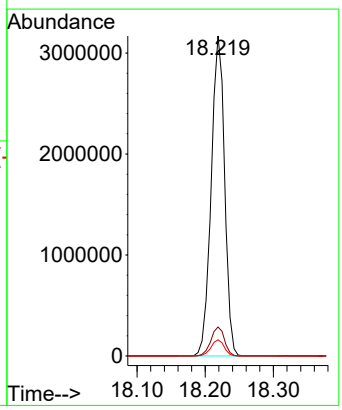
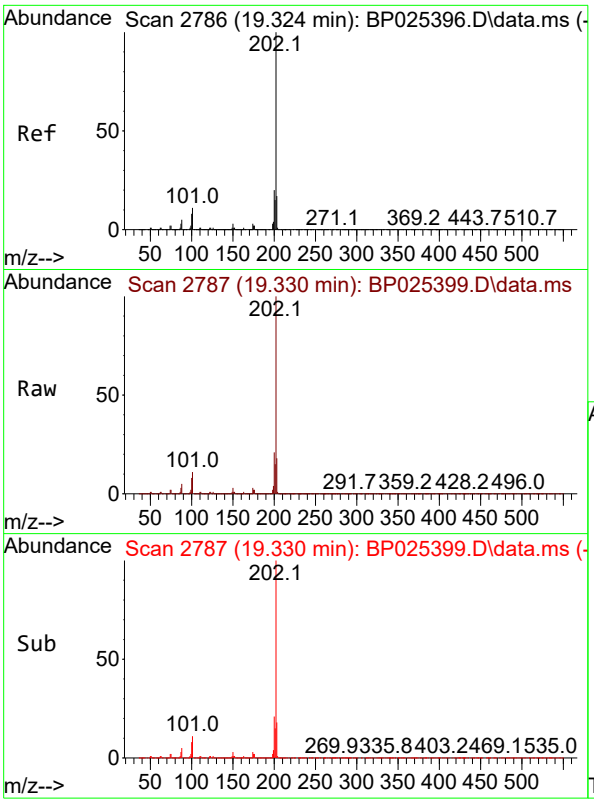


#74
Di-n-butylphthalate
Concen: 77.844 ng
RT: 18.219 min Scan# 2598
Delta R.T. 0.012 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:149 Resp: 4336701

Ion	Ratio	Lower	Upper
149	100		
150	9.1	7.4	11.0
104	5.0	4.2	6.2

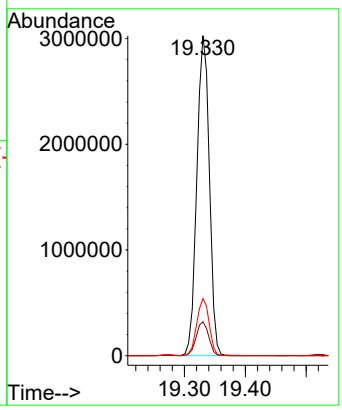




#75
Fluoranthene
Concen: 76.815 ng
RT: 19.330 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:202 Resp: 431330

Ion	Ratio	Lower	Upper
202	100		
101	10.6	0.0	31.1
203	17.8	0.0	37.3



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

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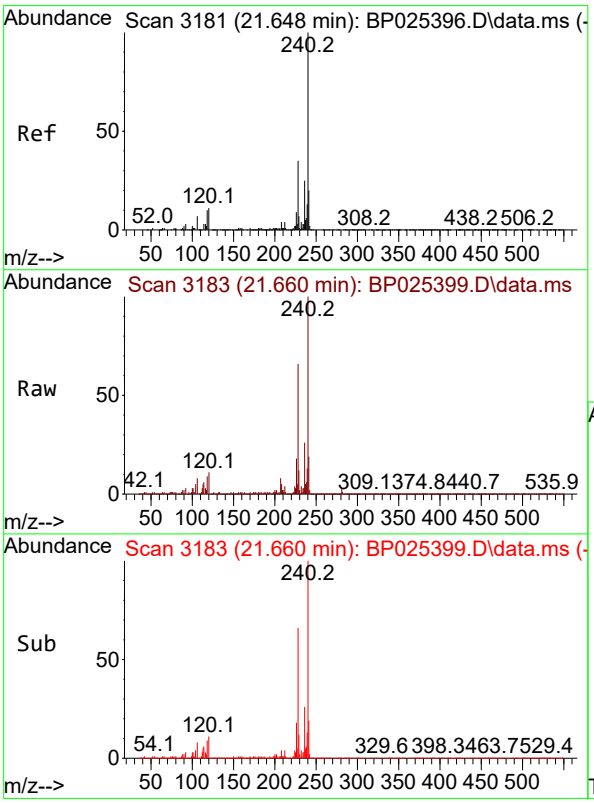
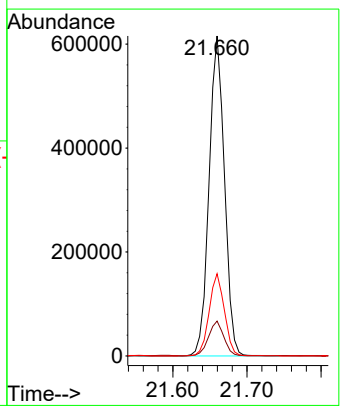
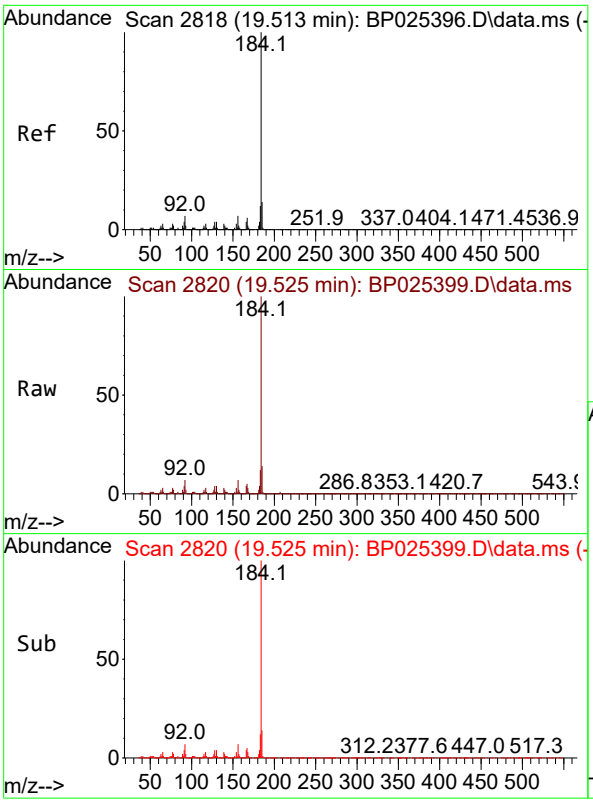


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.660 min Scan# 3183
Delta R.T. 0.012 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:240 Resp: 888879

Ion	Ratio	Lower	Upper
240	100		
120	10.9	8.9	13.3
236	25.7	19.8	29.8

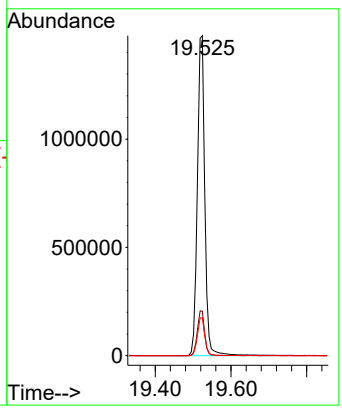




#77
Benzidine
Concen: 67.124 ng
RT: 19.525 min Scan# 2
Delta R.T. 0.012 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:184 Resp: 203624

Ion	Ratio	Lower	Upper
184	100		
185	13.9	11.5	17.3
183	11.9	9.4	14.2



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

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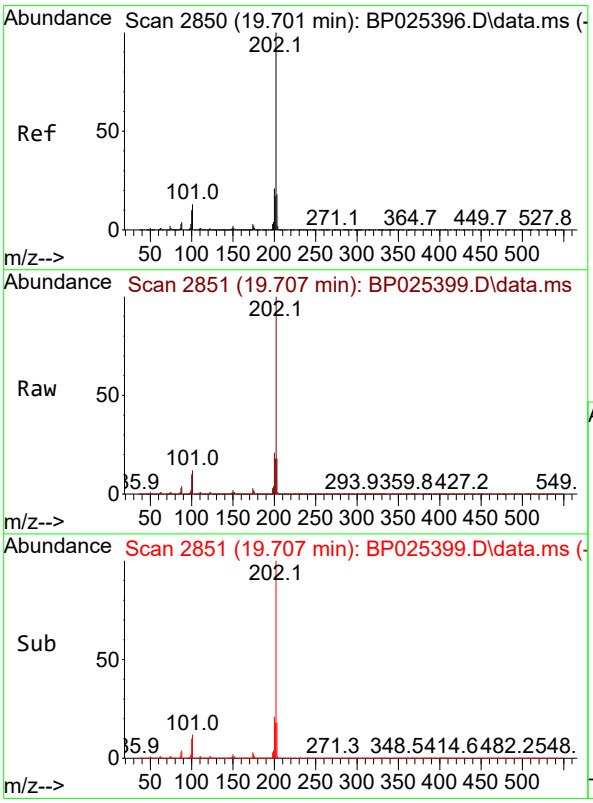
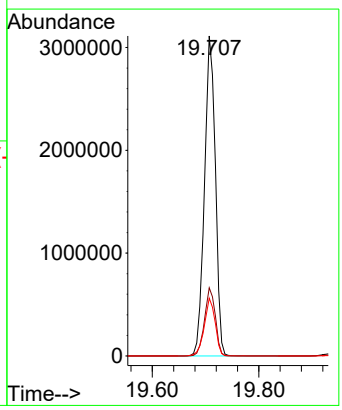
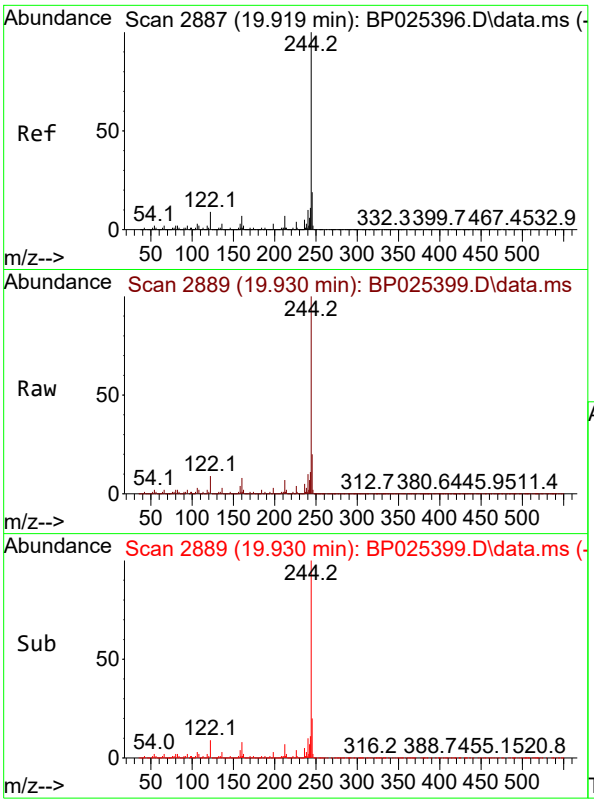


#78
Pyrene
Concen: 76.343 ng
RT: 19.707 min Scan# 2851
Delta R.T. 0.006 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:202 Resp: 4410693

Ion	Ratio	Lower	Upper
202	100		
200	21.3	16.9	25.3
203	18.1	14.2	21.2

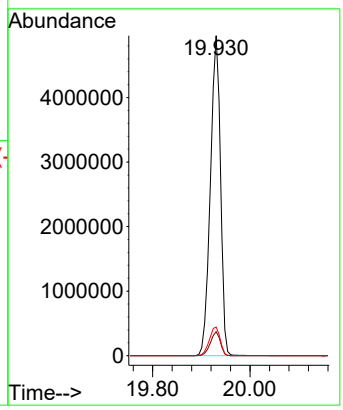




#79
Terphenyl-d14
Concen: 146.217 ng
RT: 19.930 min Scan# 2
Delta R.T. 0.012 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:244 Resp: 710381

Ion	Ratio	Lower	Upper
244	100		
212	7.5	5.8	8.6
122	9.0	7.4	11.2



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

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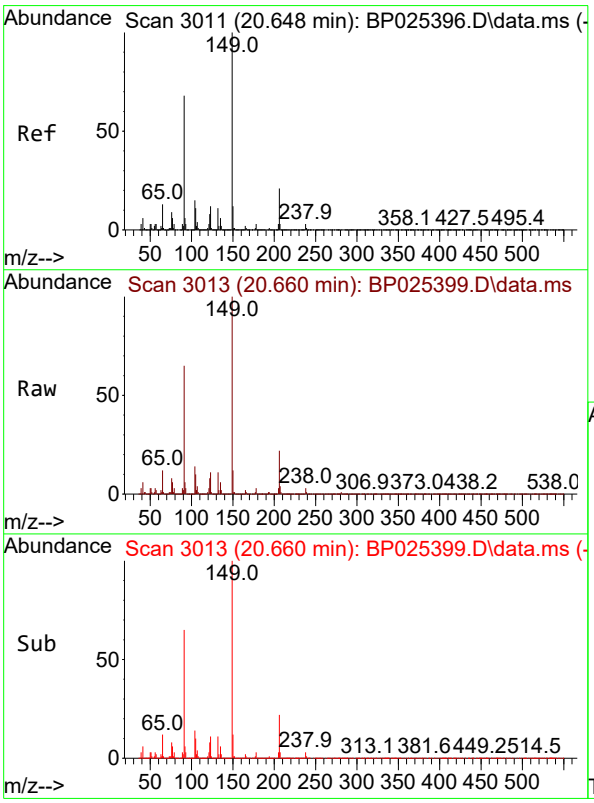
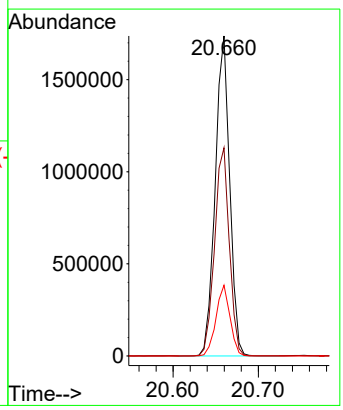
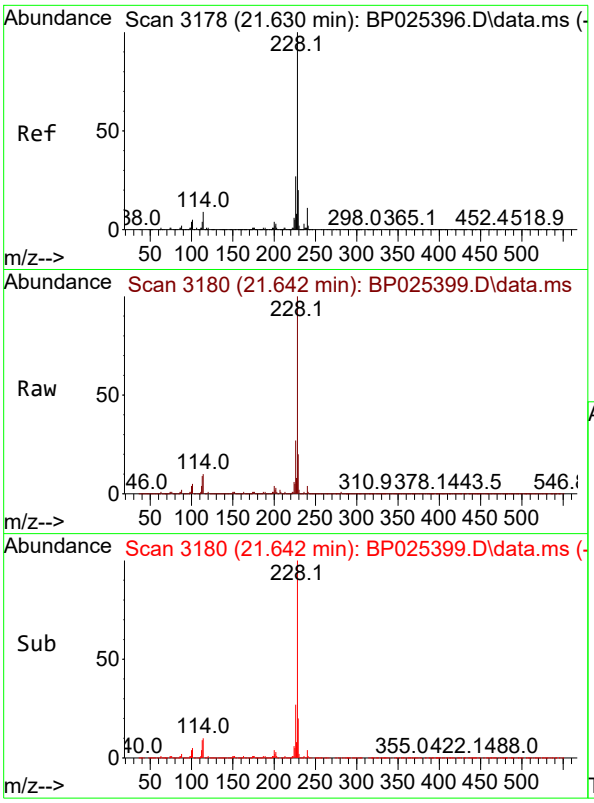


#80
Butylbenzylphthalate
Concen: 78.460 ng
RT: 20.660 min Scan# 3013
Delta R.T. 0.012 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:149 Resp: 2054404

Ion	Ratio	Lower	Upper
149	100		
91	65.0	54.2	81.2
206	22.1	16.6	24.8

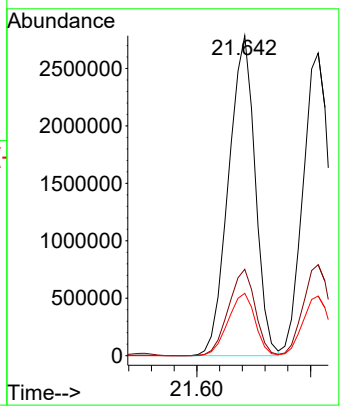




#81
Benzo(a)anthracene
Concen: 77.322 ng
RT: 21.642 min Scan# 3
Delta R.T. 0.012 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:228 Resp: 453276

Ion	Ratio	Lower	Upper
228	100		
226	27.0	21.7	32.5
229	19.5	15.6	23.4



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

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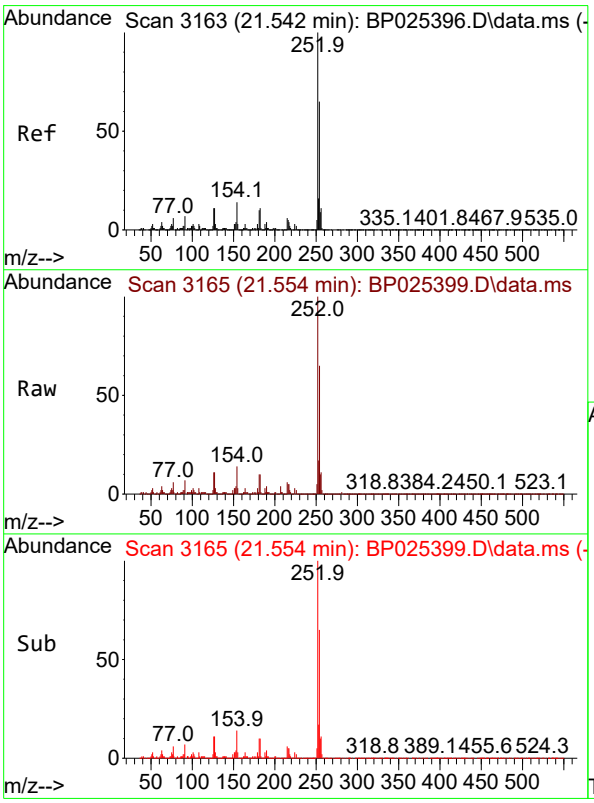
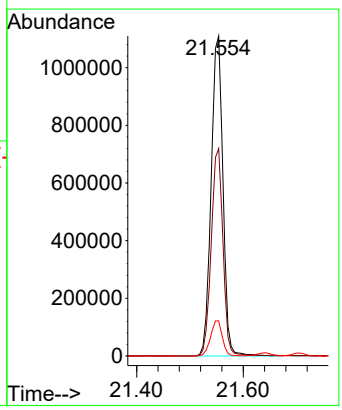
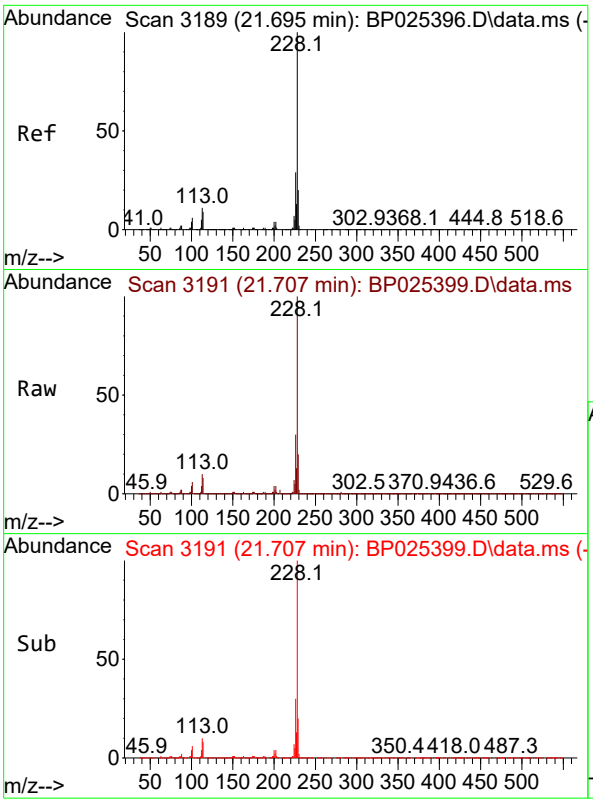


#82
3,3'-Dichlorobenzidine
Concen: 77.197 ng
RT: 21.554 min Scan# 3165
Delta R.T. 0.012 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:252 Resp: 1705746

Ion	Ratio	Lower	Upper
252	100		
254	64.8	51.8	77.6
126	11.0	9.1	13.7

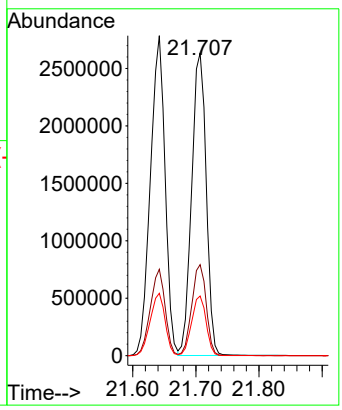




#83
Chrysene
Concen: 76.835 ng
RT: 21.707 min Scan# 3
Delta R.T. 0.012 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:228 Resp: 421816

Ion	Ratio	Lower	Upper
228	100		
226	30.1	23.2	34.8
229	19.7	15.6	23.4



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

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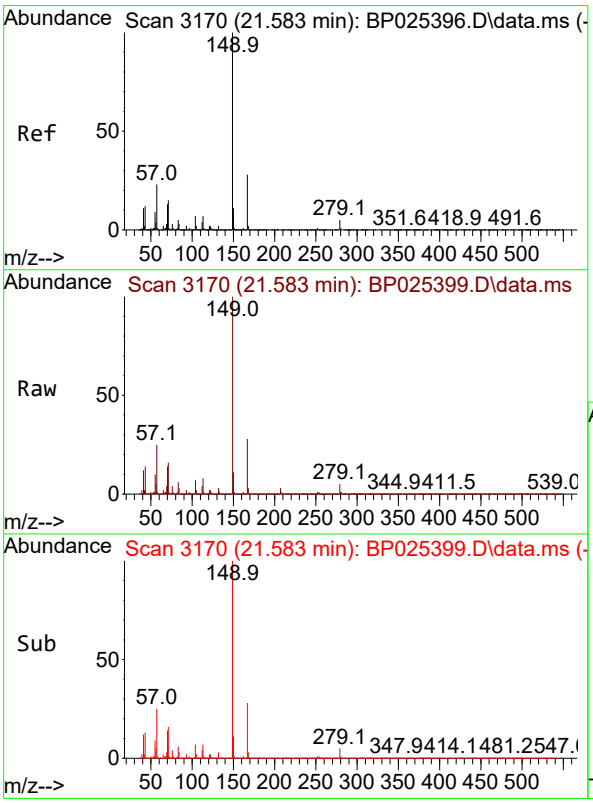
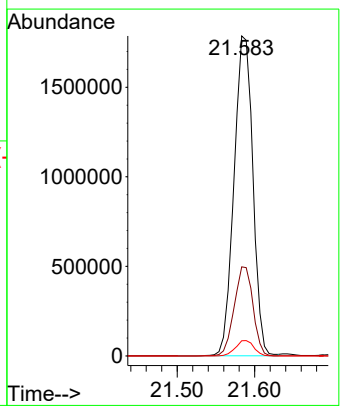
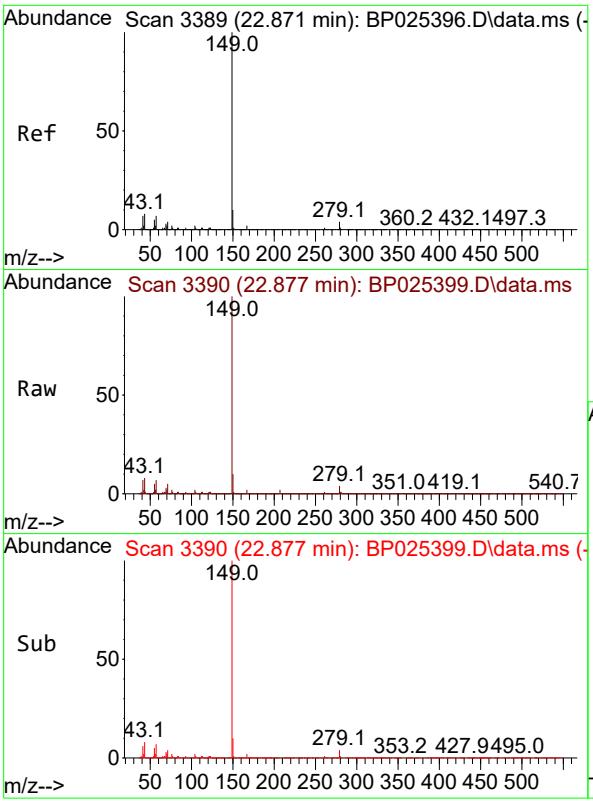


#84
Bis(2-ethylhexyl)phthalate
Concen: 78.400 ng
RT: 21.583 min Scan# 3170
Delta R.T. 0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:149 Resp: 3021891

Ion	Ratio	Lower	Upper
149	100		
167	27.8	22.1	33.1
279	4.8	3.8	5.6

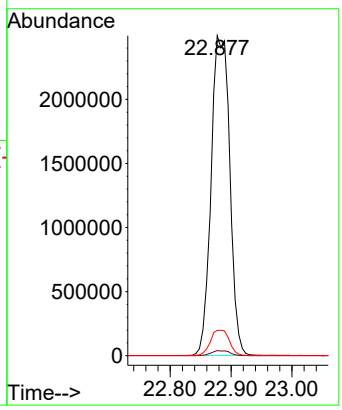




#85
Di-n-octyl phthalate
Concen: 79.974 ng
RT: 22.877 min Scan# 3
Delta R.T. 0.006 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:149 Resp: 530208

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	8.0	6.3	9.5



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

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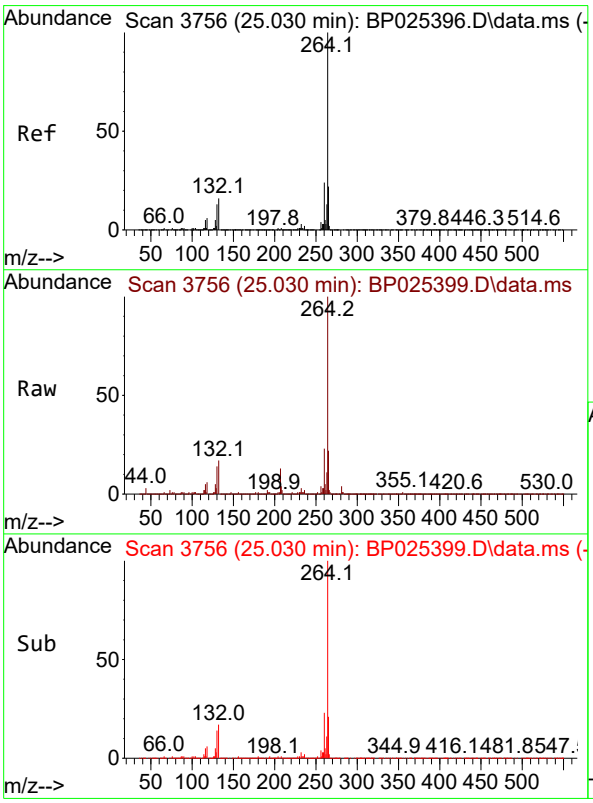
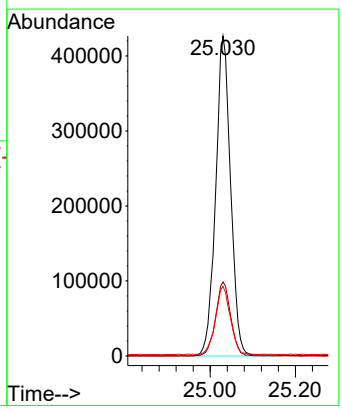
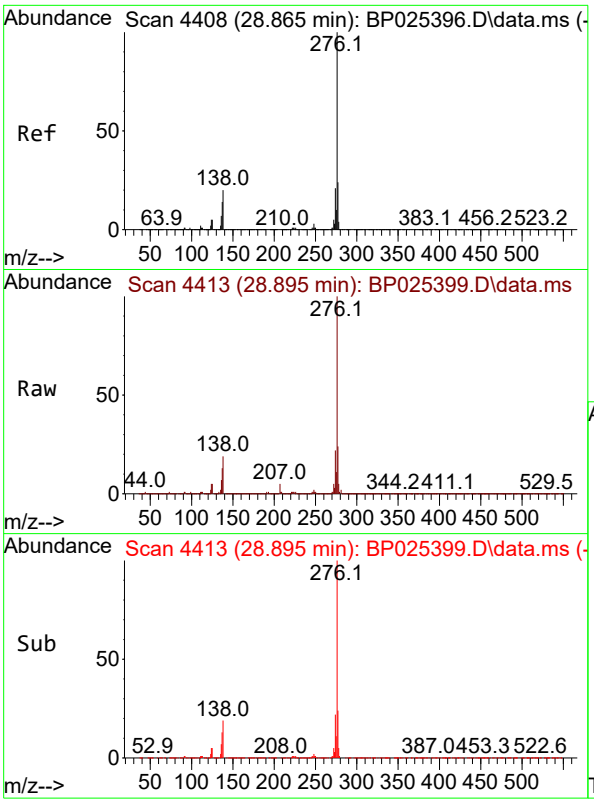


#86
Perylene-d12
Concen: 20.000 ng
RT: 25.030 min Scan# 3756
Delta R.T. 0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:264 Resp: 1037707

Ion	Ratio	Lower	Upper
264	100		
260	23.2	19.3	28.9
265	21.8	17.4	26.0

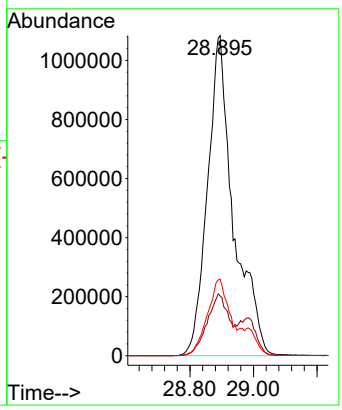




#87
Indeno(1,2,3-cd)pyrene
Concen: 81.030 ng m
RT: 28.895 min Scan# 4
Delta R.T. 0.029 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:276 Resp: 616857

Ion	Ratio	Lower	Upper
276	100		
138	16.9	12.9	19.3
277	20.5	17.0	25.6



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

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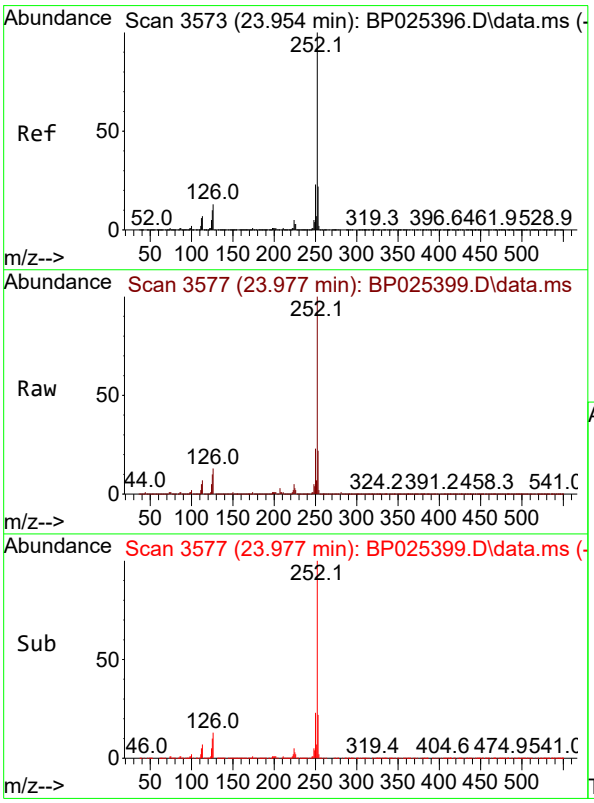
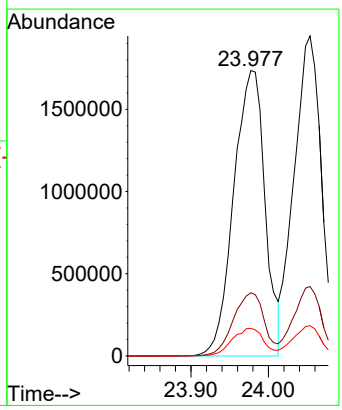
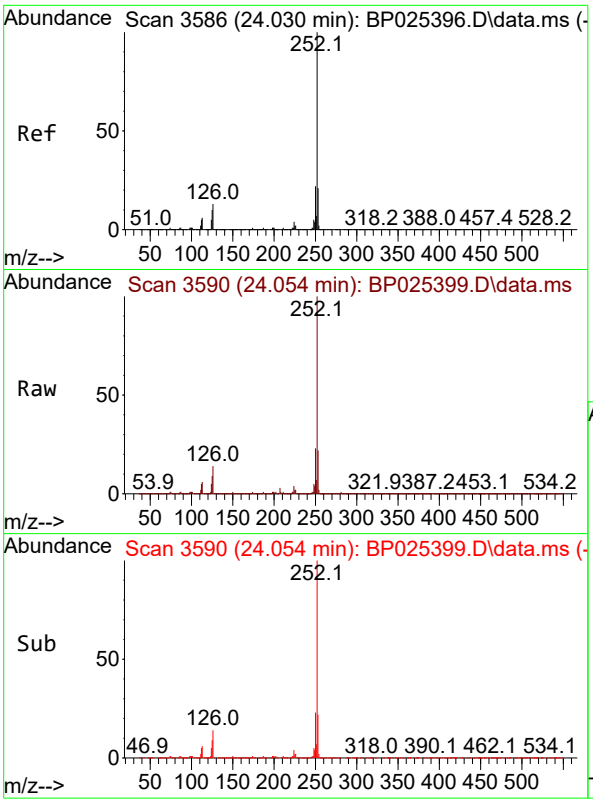


#88
Benzo(b)fluoranthene
Concen: 79.692 ng
RT: 23.977 min Scan# 3577
Delta R.T. 0.024 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:252 Resp: 4876398

Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.7	26.5
125	9.7	7.9	11.9





#89
Benzo(k)fluoranthene
Concen: 77.323 ng
RT: 24.054 min Scan# 3
Delta R.T. 0.024 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

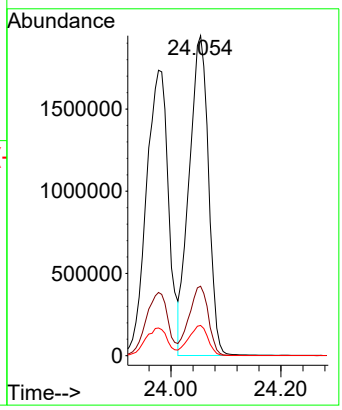
Tgt Ion:252 Resp: 473463

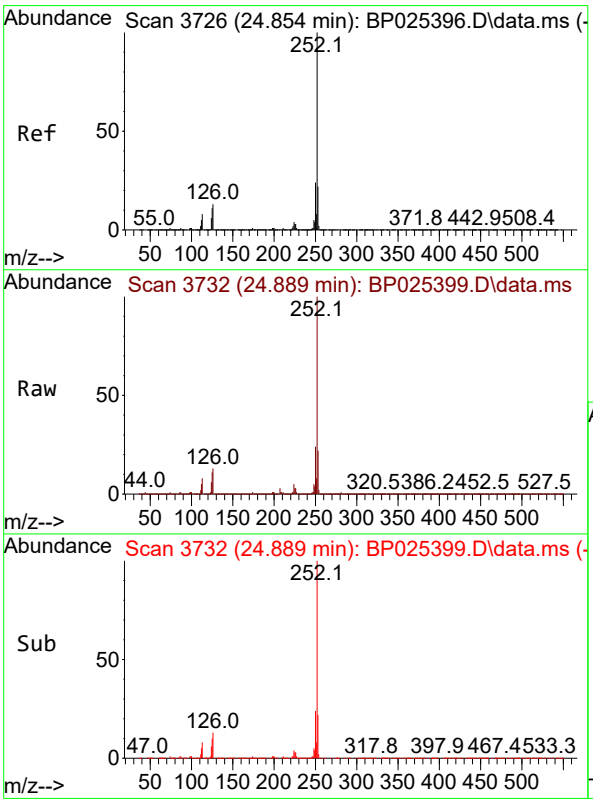
Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.1	25.7
125	9.5	7.8	11.6

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 08/15/2025
Supervised By :Jagrut Upadhyay 08/15/2025

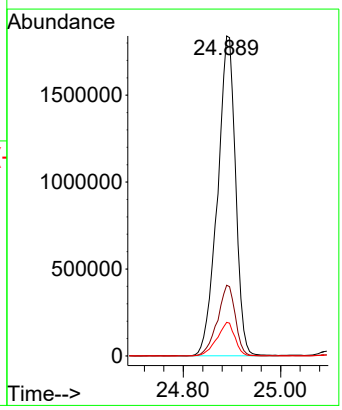


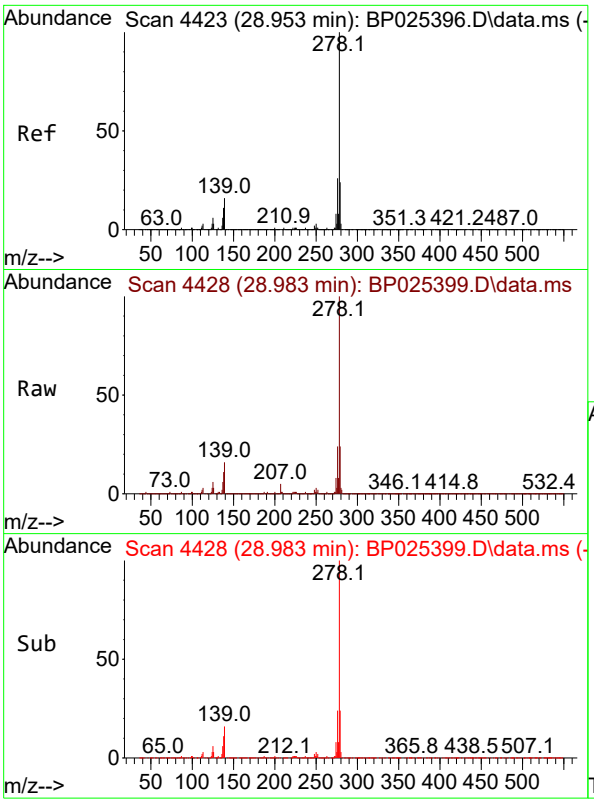


#90
Benzo(a)pyrene
Concen: 79.505 ng
RT: 24.889 min Scan# 3732
Delta R.T. 0.035 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:252 Resp: 4735685

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.5	26.3
125	10.5	8.7	13.1

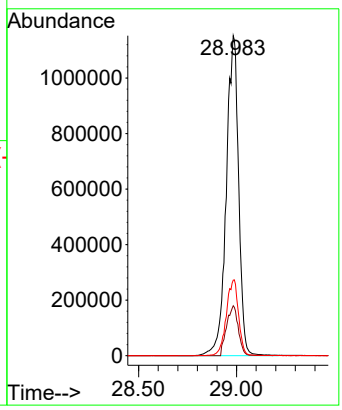




#91
Dibenzo(a,h)anthracene
Concen: 81.142 ng
RT: 28.983 min Scan# 4
Delta R.T. 0.029 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:278 Resp: 504626

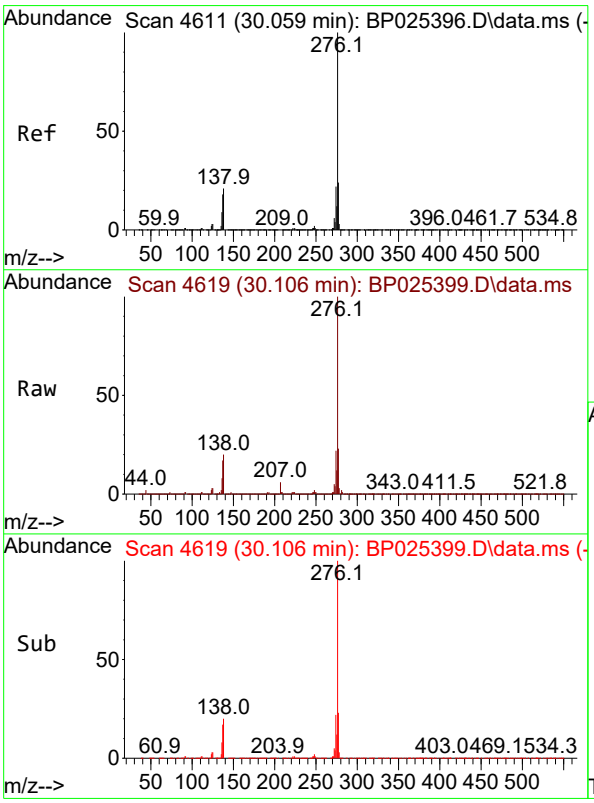
Ion	Ratio	Lower	Upper
278	100		
139	15.6	13.0	19.4
279	23.6	19.4	29.2



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

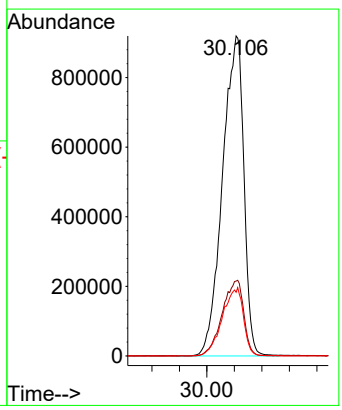
Reviewed By :Rahul Chavli 08/15/2025
Supervised By :Jagrut Upadhyay 08/15/2025



#92
Benzo(g,h,i)perylene
Concen: 80.973 ng
RT: 30.106 min Scan# 4619
Delta R.T. 0.047 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:276 Resp: 4949477

Ion	Ratio	Lower	Upper
276	100		
277	23.4	19.4	29.0
138	19.9	16.7	25.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081425\
Data File : BP025400.D
Acq On : 14 Aug 2025 18:05
Operator : CG/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
ICVBP081425

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 08/15/2025
Supervised By :Jagrut Upadhyay 08/15/2025

Quant Time: Aug 14 18:24:25 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.790	152	174007	20.000	ng		0.00
21) Naphthalene-d8	10.566	136	750079	20.000	ng		0.00
39) Acenaphthene-d10	14.407	164	503239	20.000	ng		0.00
64) Phenanthrene-d10	17.213	188	1034378	20.000	ng		0.01
76) Chrysene-d12	21.654	240	1060337	20.000	ng		0.00
86) Perylene-d12	25.024	264	1200519	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.408	112	727486	69.430	ng		0.00
7) Phenol-d6	6.966	99	962695	71.663	ng		0.00
23) Nitrobenzene-d5	8.937	82	984441	66.391	ng		0.00
42) 2,4,6-Tribromophenol	15.919	330	484870	71.582	ng		0.00
45) 2-Fluorobiphenyl	13.025	172	2430828	66.016	ng		0.00
79) Terphenyl-d14	19.936	244	3848160	66.399	ng		0.02
Target Compounds							Qvalue
2) 1,4-Dioxane	3.331	88	138687	33.792	ng		99
3) Pyridine	3.731	79	403298	35.901	ng		98
4) n-Nitrosodimethylamine	3.631	42	176521	38.115	ng		98
6) Aniline	7.125	93	690437	38.147	ng		99
8) 2-Chlorophenol	7.366	128	455230	38.501	ng		99
9) Benzaldehyde	6.943	77	321335	34.142	ng		96
10) Phenol	6.996	94	541123	38.388	ng		99
11) bis(2-Chloroethyl)ether	7.219	93	421318	38.348	ng		99
12) 1,3-Dichlorobenzene	7.684	146	492014	37.738	ng		100
13) 1,4-Dichlorobenzene	7.825	146	504919	37.890	ng		97
14) 1,2-Dichlorobenzene	8.143	146	487845	37.818	ng		99
15) Benzyl Alcohol	8.025	79	416544	39.025	ng		98
16) 2,2'-oxybis(1-Chloropr...	8.319	45	563276	38.271	ng		99
17) 2-Methylphenol	8.225	107	380608	38.877	ng		100
18) Hexachloroethane	8.866	117	186691	38.103	ng		97
19) n-Nitroso-di-n-propyla...	8.590	70	340533	38.270	ng		99
20) 3+4-Methylphenols	8.549	107	524095	38.620	ng		99
22) Acetophenone	8.602	105	718869	38.216	ng	#	99
24) Nitrobenzene	8.978	77	494466	37.313	ng		98
25) Isophorone	9.501	82	993378	37.855	ng		99
26) 2-Nitrophenol	9.678	139	263348	38.722	ng		97
27) 2,4-Dimethylphenol	9.743	122	455078	38.910	ng		99
28) bis(2-Chloroethoxy)met...	9.972	93	599862	37.816	ng		99
29) 2,4-Dichlorophenol	10.213	162	449034	38.649	ng		98
30) 1,2,4-Trichlorobenzene	10.431	180	474183	37.231	ng		98
31) Naphthalene	10.613	128	1459279	37.431	ng		99
32) Benzoic acid	9.884	122	330207	38.242	ng		96
33) 4-Chloroaniline	10.713	127	655135	38.043	ng		99
34) Hexachlorobutadiene	10.901	225	293728	37.031	ng		98
35) Caprolactam	11.501	113	163211	38.310	ng		98
36) 4-Chloro-3-methylphenol	11.837	107	517126	38.789	ng		98
37) 2-Methylnaphthalene	12.219	142	960146	37.845	ng		99
38) 1-Methylnaphthalene	12.443	142	1012844	37.539	ng		99
40) 1,2,4,5-Tetrachloroben...	12.590	216	550777	37.895	ng		100
41) Hexachlorocyclopentadiene	12.572	237	351819	40.074	ng		100
43) 2,4,6-Trichlorophenol	12.831	196	382393	38.972	ng		98

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081425\
Data File : BP025400.D
Acq On : 14 Aug 2025 18:05
Operator : CG/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
ICVBP081425

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 08/15/2025
Supervised By :Jagrut Upadhyay 08/15/2025

Quant Time: Aug 14 18:24:25 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.901	196	420565	39.108	ng	99
46) 1,1'-Biphenyl	13.237	154	1376834	37.672	ng	99
47) 2-Chloronaphthalene	13.272	162	1072147	37.682	ng	99
48) 2-Nitroaniline	13.472	65	323995	39.081	ng	99
49) Acenaphthylene	14.125	152	1775899	37.720	ng	100
50) Dimethylphthalate	13.860	163	1406620	38.170	ng	100
51) 2,6-Dinitrotoluene	13.972	165	304562	39.211	ng	98
52) Acenaphthene	14.472	154	1018011m	36.837	ng	
53) 3-Nitroaniline	14.301	138	349791	40.027	ng	98
54) 2,4-Dinitrophenol	14.507	184	172743	41.646	ng	100
55) Dibenzofuran	14.813	168	1630744	37.324	ng	100
56) 4-Nitrophenol	14.619	139	284585	39.630	ng	99
57) 2,4-Dinitrotoluene	14.772	165	448143	40.439	ng	98
58) Fluorene	15.478	166	1275341	36.992	ng	98
59) 2,3,4,6-Tetrachlorophenol	15.036	232	371715	39.147	ng	99
60) Diethylphthalate	15.242	149	1415787	37.810	ng	99
61) 4-Chlorophenyl-phenyle...	15.472	204	627477	36.596	ng	99
62) 4-Nitroaniline	15.484	138	346865	38.717	ng	99
63) Azobenzene	15.766	77	1235242	38.526	ng	99
65) 4,6-Dinitro-2-methylph...	15.548	198	256111	39.721	ng	99
66) n-Nitrosodiphenylamine	15.684	169	1174244	37.227	ng	100
67) 4-Bromophenyl-phenylether	16.378	248	422072	37.101	ng	96
68) Hexachlorobenzene	16.501	284	488749	37.062	ng	98
69) Atrazine	16.660	200	449555	38.057	ng	100
70) Pentachlorophenol	16.854	266	322435	38.733	ng	98
71) Phenanthrene	17.254	178	2070873	36.445	ng	99
72) Anthracene	17.342	178	2179669	37.563	ng	100
73) Carbazole	17.619	167	2028595	37.116	ng	100
74) Di-n-butylphthalate	18.225	149	2528547	37.602	ng	100
75) Fluoranthene	19.342	202	2540417	37.481	ng	99
77) Benzidine	19.519	184	1529656	42.271	ng	99
78) Pyrene	19.713	202	2577810	37.404	ng	99
80) Butylbenzylphthalate	20.660	149	1199445	38.401	ng	98
81) Benzo(a)anthracene	21.636	228	2583866	36.950	ng	99
82) 3,3'-Dichlorobenzidine	21.554	252	1002597	38.038	ng	99
83) Chrysene	21.701	228	2446197	37.353	ng	99
84) Bis(2-ethylhexyl)phtha...	21.583	149	1780746	38.729	ng	100
85) Di-n-octyl phthalate	22.877	149	2998528	37.915	ng	100
87) Indeno(1,2,3-cd)pyrene	28.877	276	3267965	37.119	ng	94
88) Benzo(b)fluoranthene	23.971	252	2616701	36.964	ng	100
89) Benzo(k)fluoranthene	24.042	252	2653905	37.464	ng	99
90) Benzo(a)pyrene	24.871	252	2560692	37.160	ng	100
91) Dibenzo(a,h)anthracene	28.948	278	2697336	37.490	ng	99
92) Benzo(g,h,i)perylene	30.089	276	2632085	37.216	ng	98

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

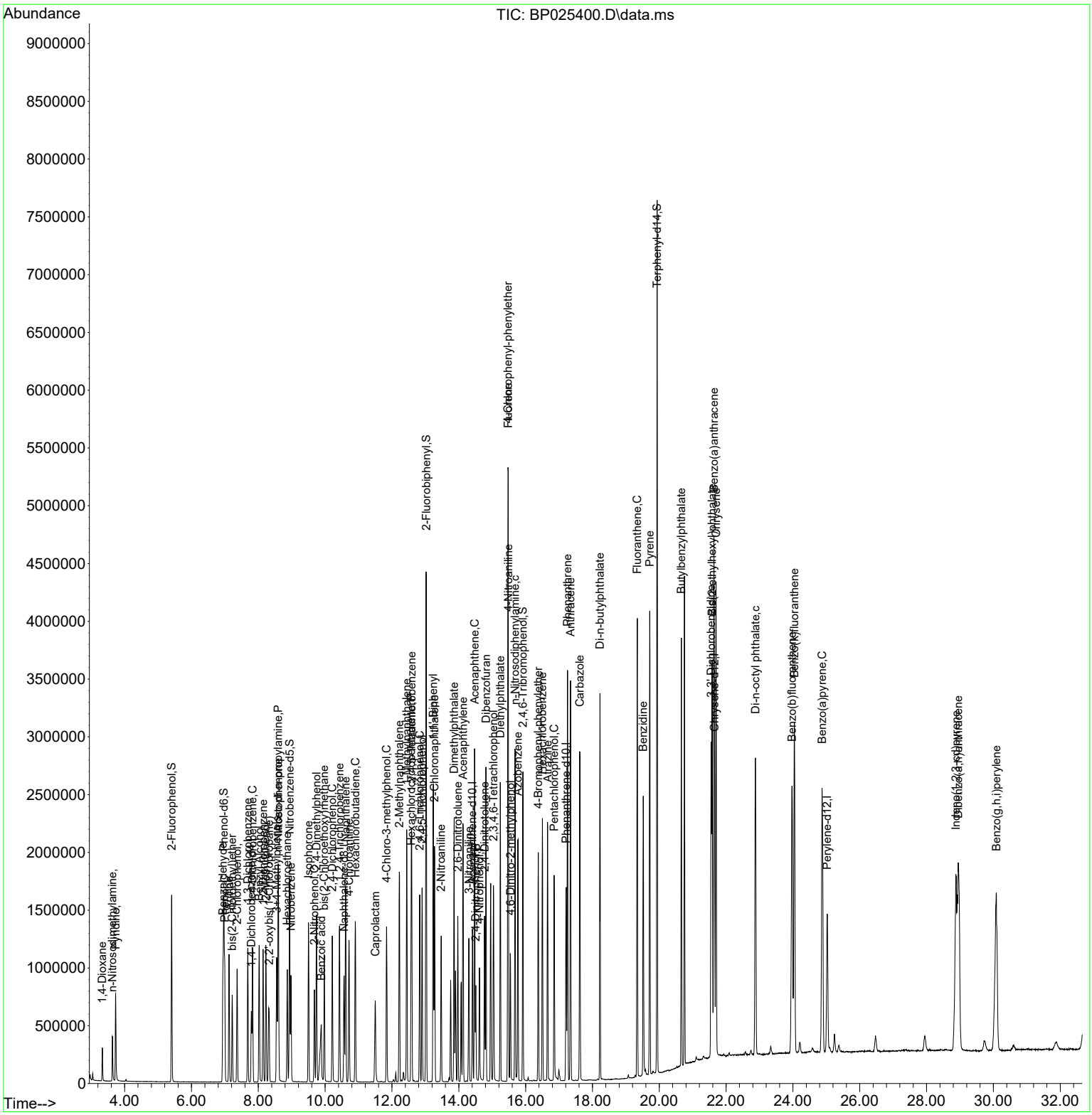
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081425\
Data File : BP025400.D
Acq On : 14 Aug 2025 18:05
Operator : CG/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

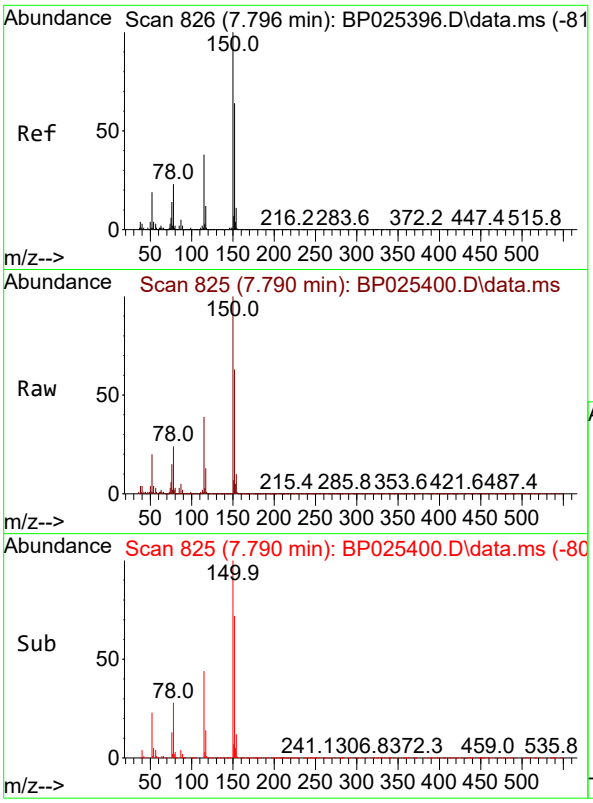
Quant Time: Aug 14 18:24:25 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
ICVBP081425

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 08/15/2025
Supervised By :Jagrut Upadhyay 08/15/2025

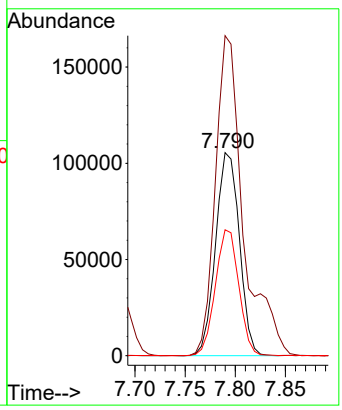




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.790 min Scan# 8
Delta R.T. -0.006 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:152 Resp: 17400

Ion	Ratio	Lower	Upper
152	100		
150	157.6	125.9	188.9
115	62.0	48.5	72.7



Instrument :
BNA_P
ClientSampleId :
ICVBP081425

Manual Integrations APPROVED

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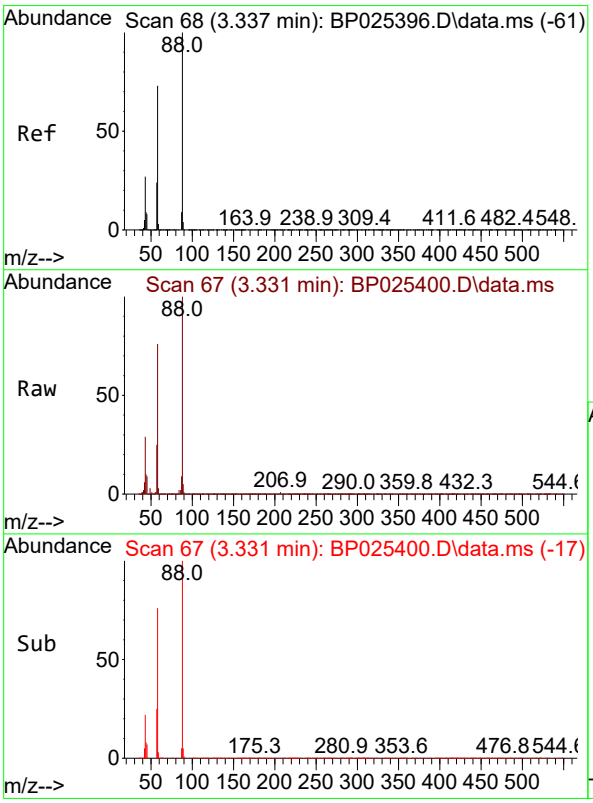
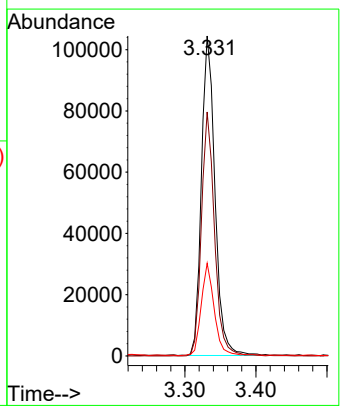
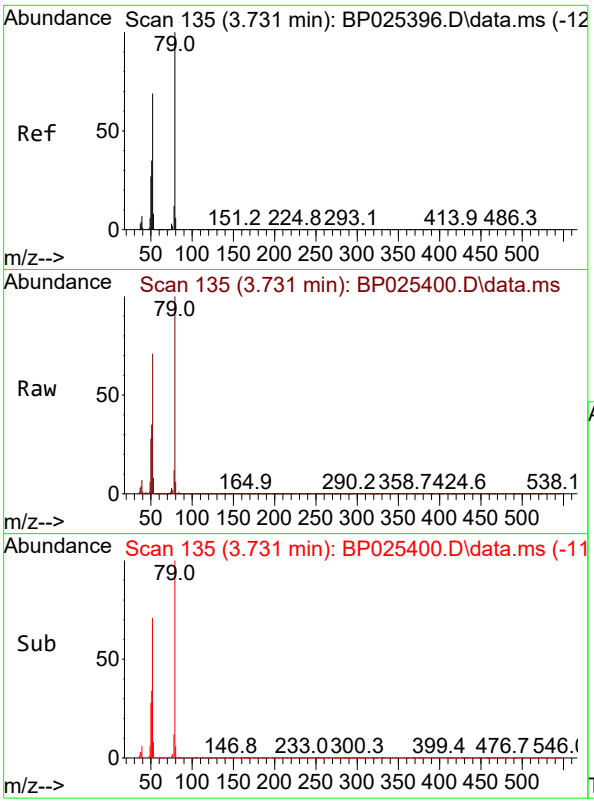


#2
1,4-Dioxane
Concen: 33.792 ng
RT: 3.331 min Scan# 67
Delta R.T. -0.006 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion: 88 Resp: 138687

Ion	Ratio	Lower	Upper
88	100		
58	73.7	59.2	88.8
43	27.9	21.7	32.5

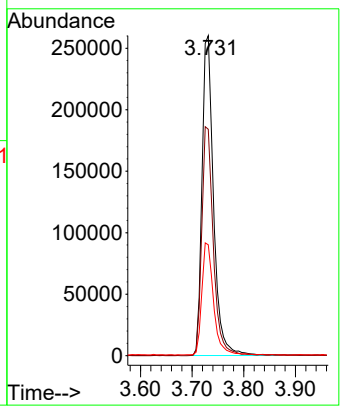




#3
Pyridine
Concen: 35.901 ng
RT: 3.731 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion: 79 Resp: 40329

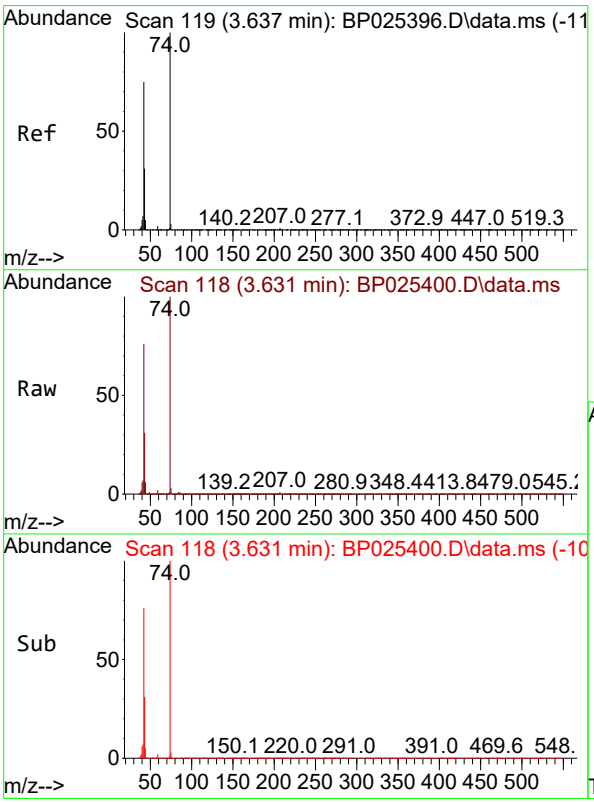
Ion	Ratio	Lower	Upper
79	100		
52	70.8	55.5	83.3
51	34.7	28.3	42.5



Instrument :
BNA_P
ClientSampleId :
ICVBP081425

Manual Integrations APPROVED

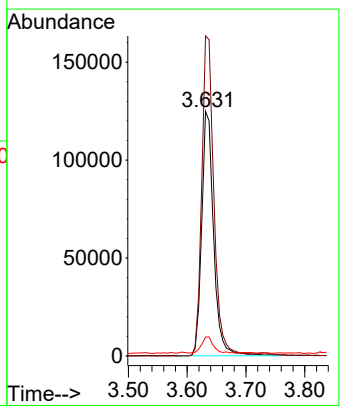
Reviewed By :Rahul Chavli 08/15/2025
Supervised By :Jagrut Upadhyay 08/15/2025

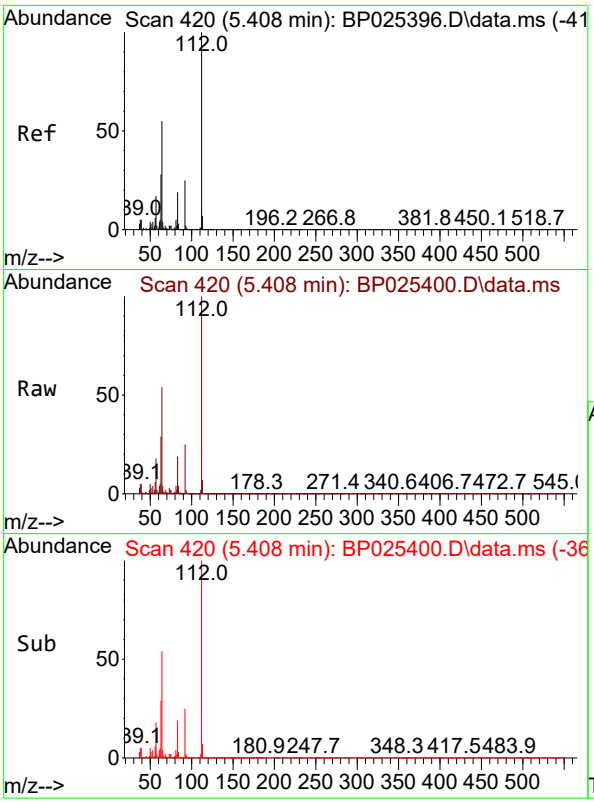


#4
n-Nitrosodimethylamine
Concen: 38.115 ng
RT: 3.631 min Scan# 118
Delta R.T. -0.006 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion: 42 Resp: 176521

Ion	Ratio	Lower	Upper
42	100		
74	130.8	107.0	160.4
44	7.7	6.2	9.4

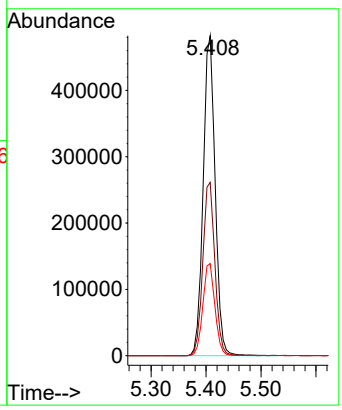




#5
2-Fluorophenol
Concen: 69.430 ng
RT: 5.408 min Scan# 4
Delta R.T. 0.000 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:112 Resp: 72748

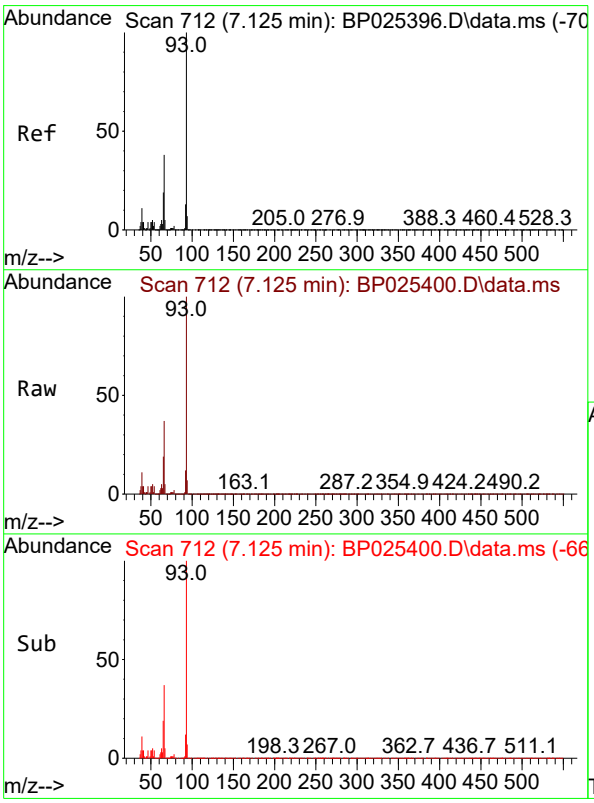
Ion	Ratio	Lower	Upper
112	100		
64	54.2	43.8	65.8
63	28.8	22.7	34.1



Instrument :
BNA_P
ClientSampleId :
ICVBP081425

Manual Integrations APPROVED

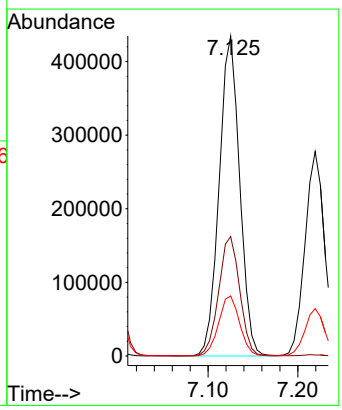
Reviewed By :Rahul Chavli 08/15/2025
Supervised By :Jagrut Upadhyay 08/15/2025

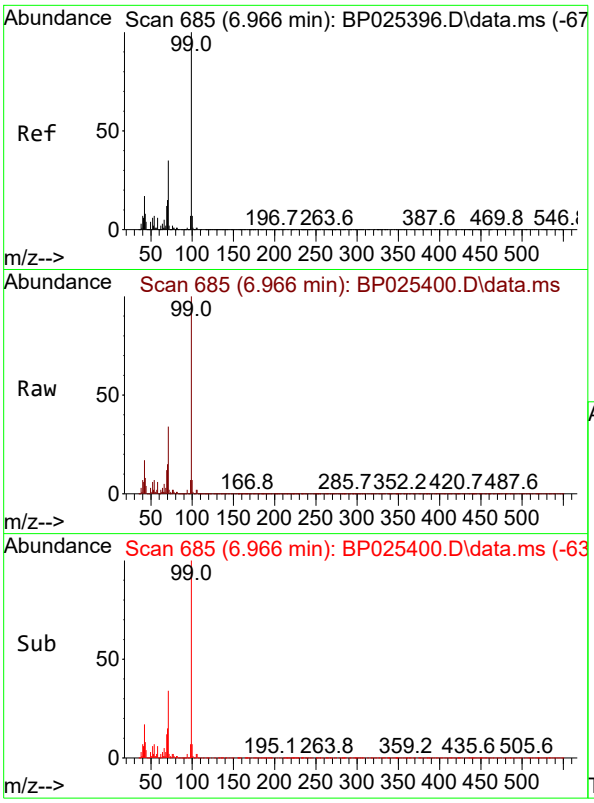


#6
Aniline
Concen: 38.147 ng
RT: 7.125 min Scan# 712
Delta R.T. 0.000 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion: 93 Resp: 690437

Ion	Ratio	Lower	Upper
93	100		
66	37.3	30.4	45.6
65	18.7	15.3	22.9

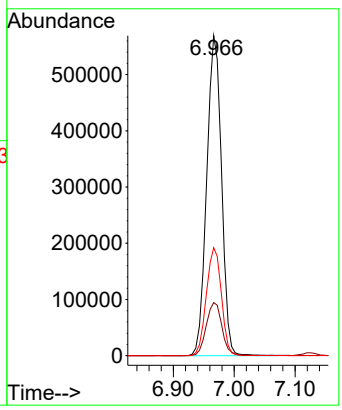




#7
Phenol-d6
Concen: 71.663 ng
RT: 6.966 min Scan# 6
Delta R.T. 0.000 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion: 99 Resp: 96269

Ion	Ratio	Lower	Upper
99	100		
42	16.6	13.7	20.5
71	33.7	28.2	42.4



Instrument :
BNA_P
ClientSampleId :
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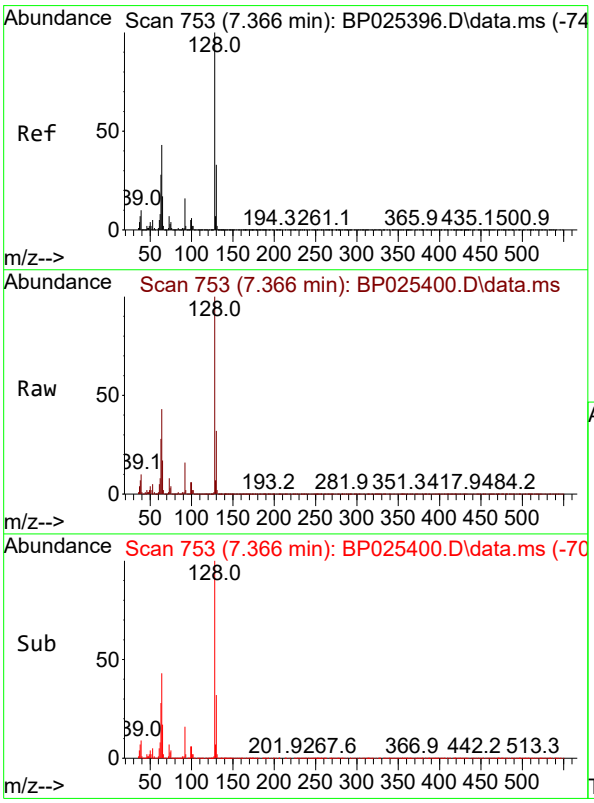
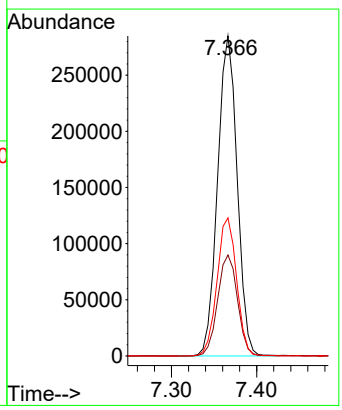
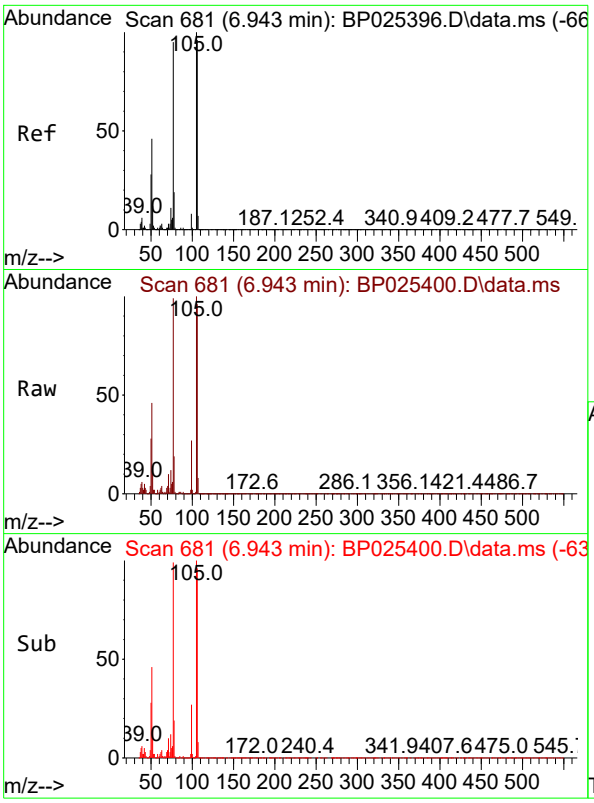


#8
2-Chlorophenol
Concen: 38.501 ng
RT: 7.366 min Scan# 753
Delta R.T. 0.000 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:128 Resp: 455230

Ion	Ratio	Lower	Upper
128	100		
130	31.6	12.6	52.6
64	43.2	23.4	63.4

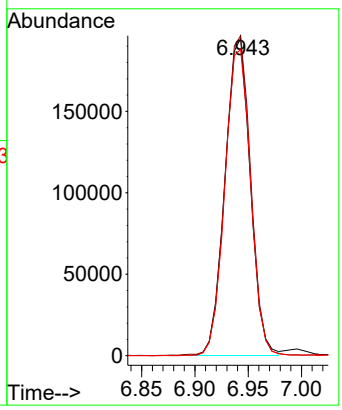




#9
Benzaldehyde
Concen: 34.142 ng
RT: 6.943 min Scan# 6
Delta R.T. 0.000 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion: 77 Resp: 32133

Ion	Ratio	Lower	Upper
77	100		
105	100.9	84.8	124.8
106	96.6	80.5	120.5



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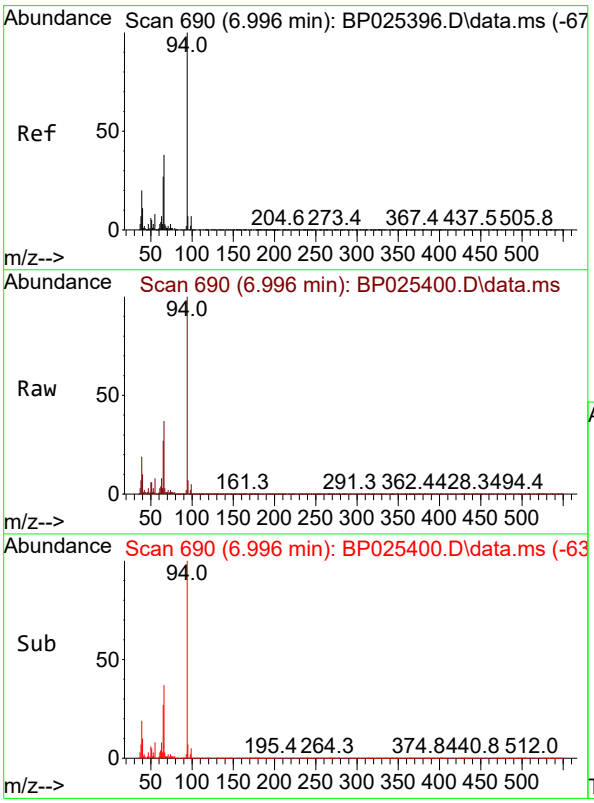
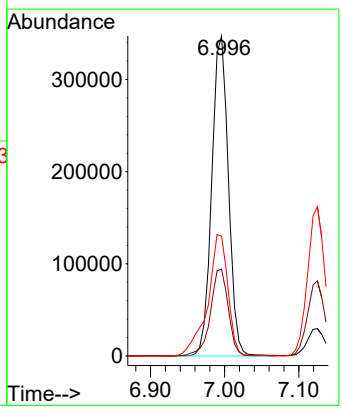
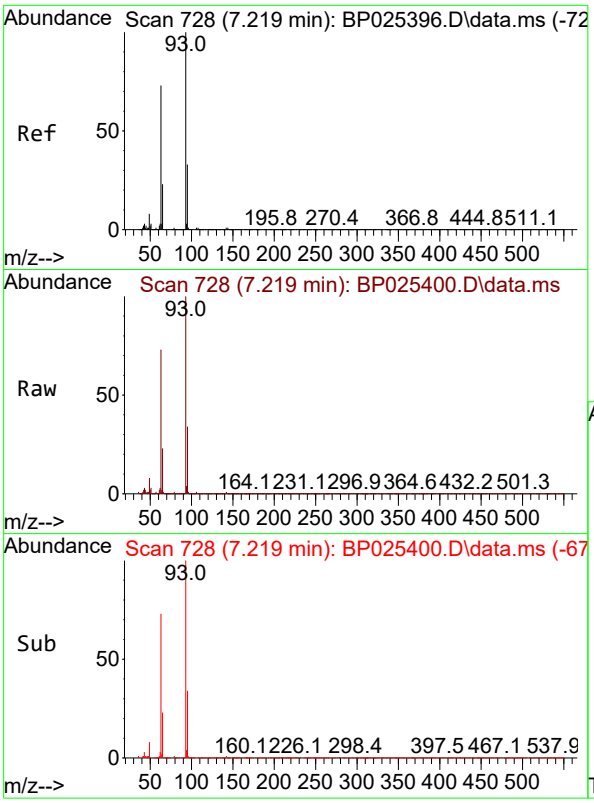


#10
Phenol
Concen: 38.388 ng
RT: 6.996 min Scan# 690
Delta R.T. 0.000 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion: 94 Resp: 541123

Ion	Ratio	Lower	Upper
94	100		
65	27.1	6.8	46.8
66	37.5	18.2	58.2

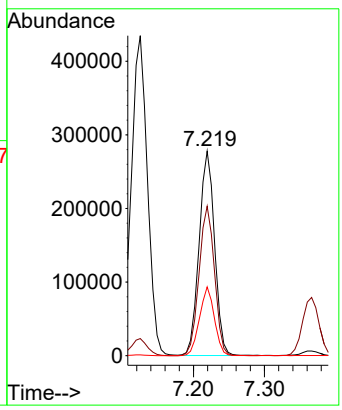




#11
bis(2-Chloroethyl)ether
Concen: 38.348 ng
RT: 7.219 min Scan# 7
Delta R.T. 0.000 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion: 93 Resp: 42131

Ion	Ratio	Lower	Upper
93	100		
63	73.1	52.6	92.6
95	33.6	12.7	52.7



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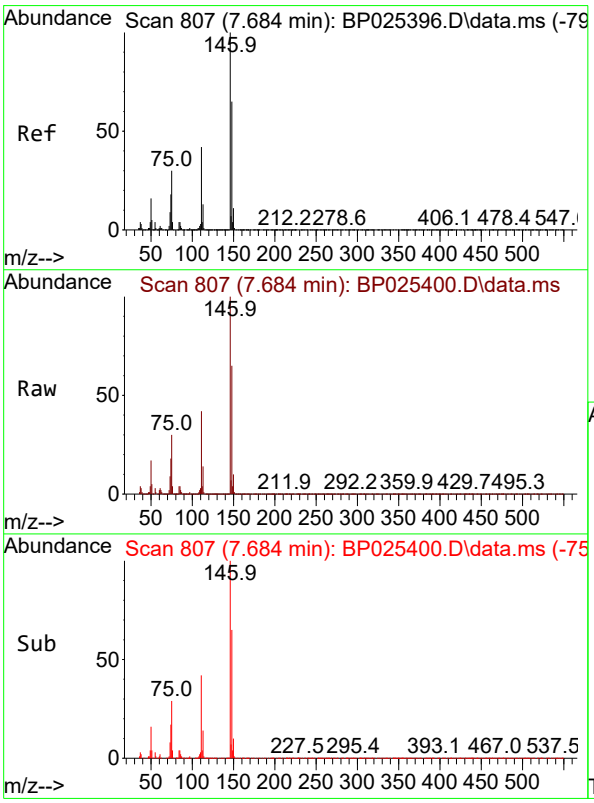
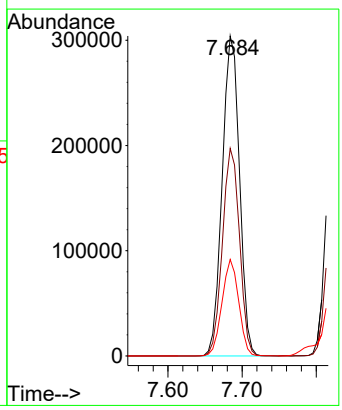
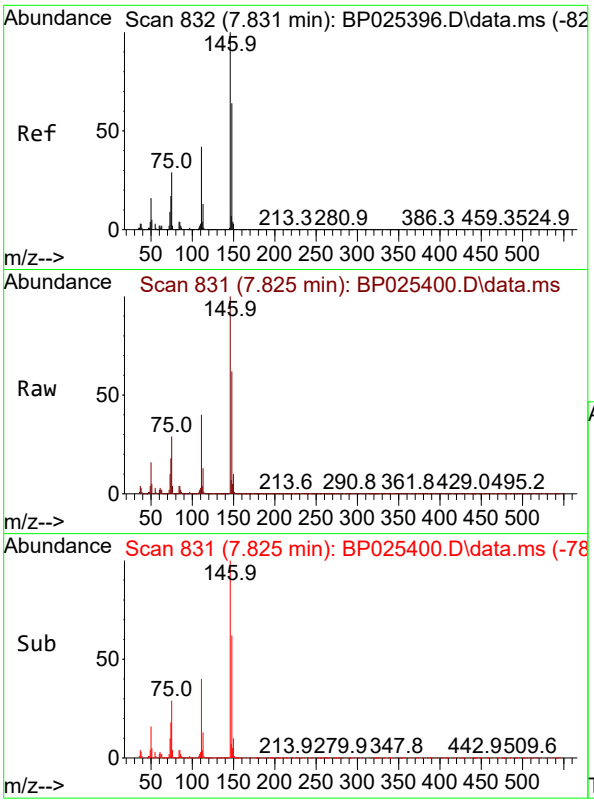


#12
1,3-Dichlorobenzene
Concen: 37.738 ng
RT: 7.684 min Scan# 807
Delta R.T. 0.000 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:146 Resp: 492014

Ion	Ratio	Lower	Upper
146	100		
148	64.8	51.9	77.9
75	30.1	23.7	35.5

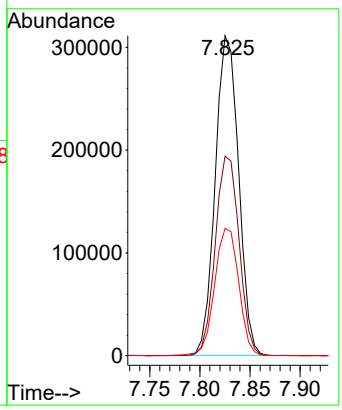




#13
1,4-Dichlorobenzene
Concen: 37.890 ng
RT: 7.825 min Scan# 8
Delta R.T. -0.006 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:146 Resp: 50491

Ion	Ratio	Lower	Upper
146	100		
148	62.3	51.6	77.4
111	39.8	33.4	50.0



Instrument :
BNA_P
ClientSampleId :
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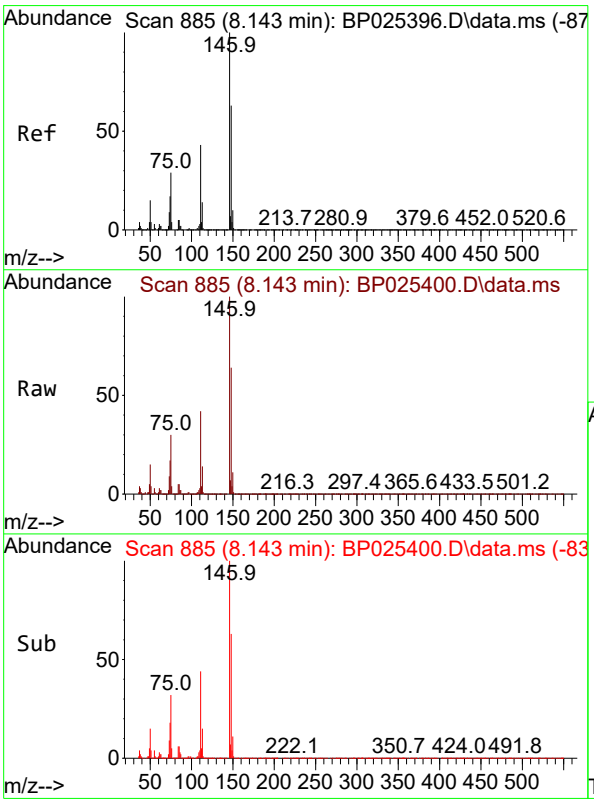
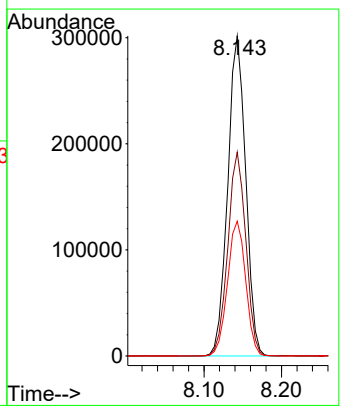
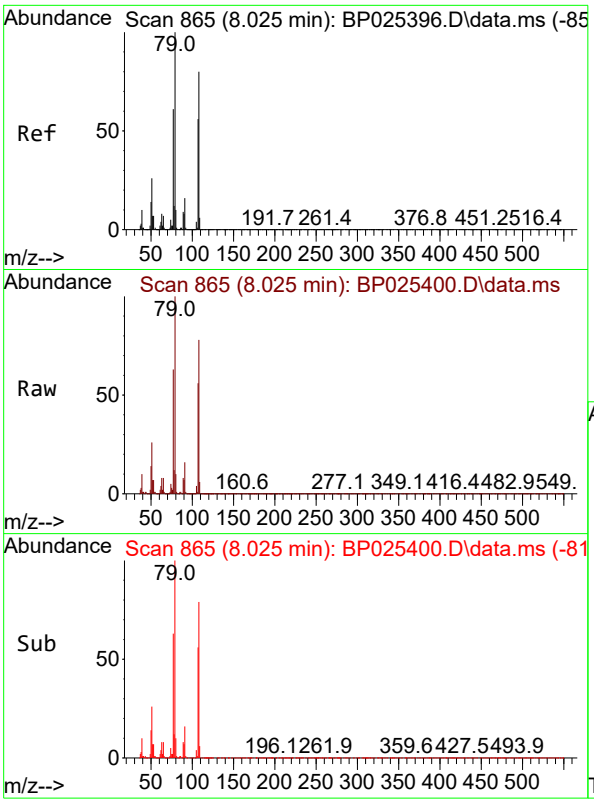


#14
1,2-Dichlorobenzene
Concen: 37.818 ng
RT: 8.143 min Scan# 885
Delta R.T. 0.000 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:146 Resp: 487845

Ion	Ratio	Lower	Upper
146	100		
148	63.7	50.4	75.6
111	42.1	34.5	51.7





#15
Benzyl Alcohol
Concen: 39.025 ng
RT: 8.025 min Scan# 8
Delta R.T. 0.000 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion: 79 Resp: 41654

Ion	Ratio	Lower	Upper
79	100		
108	78.5	63.8	95.6
77	62.8	49.0	73.4

Instrument :
BNA_P
ClientSampleId :
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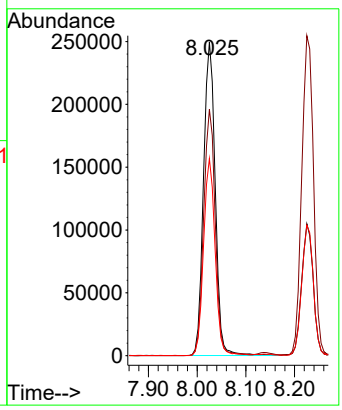
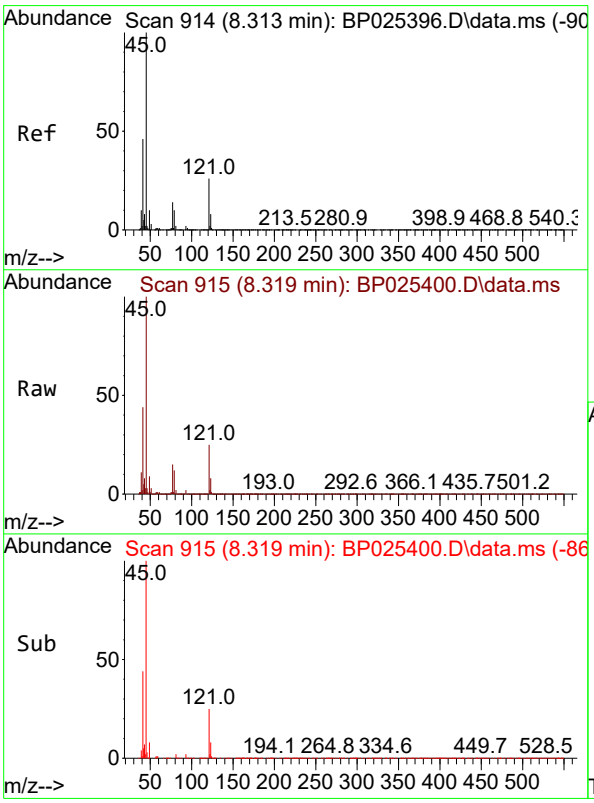
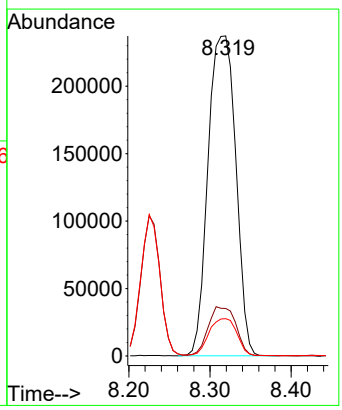


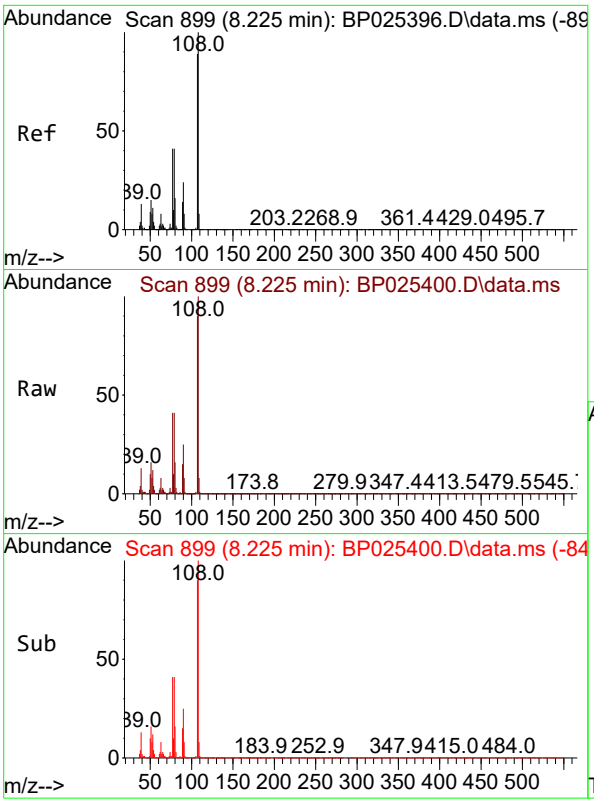


#16
2,2'-oxybis(1-Chloropropane)
Concen: 38.271 ng
RT: 8.319 min Scan# 915
Delta R.T. 0.006 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion: 45 Resp: 563276

Ion	Ratio	Lower	Upper
45	100		
77	14.8	0.0	35.3
79	11.7	0.0	31.8

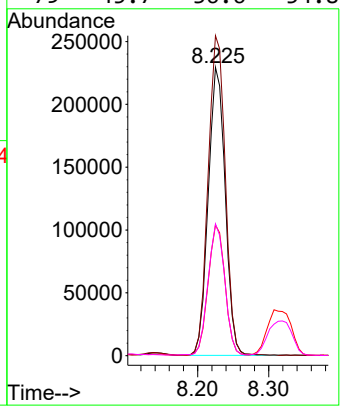




#17
2-Methylphenol
Concen: 38.877 ng
RT: 8.225 min Scan# 8
Delta R.T. 0.000 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:107 Resp: 38060

Ion	Ratio	Lower	Upper
107	100		
108	111.0	89.4	134.0
77	45.3	36.3	54.5
79	45.7	36.6	54.8



Instrument :
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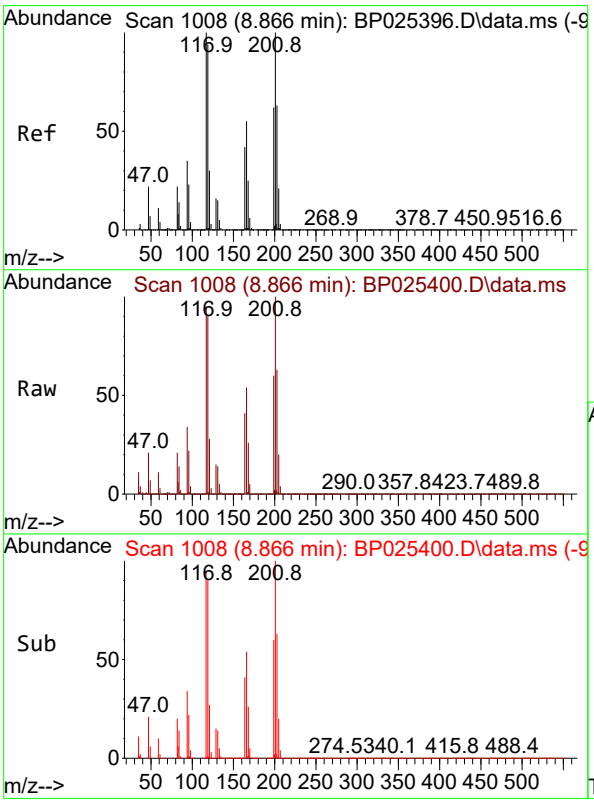
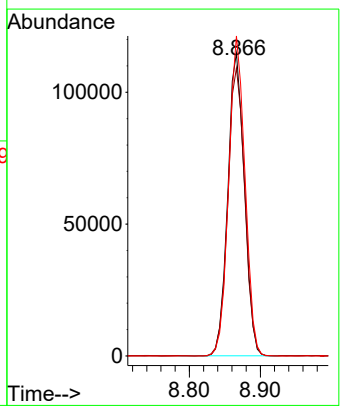
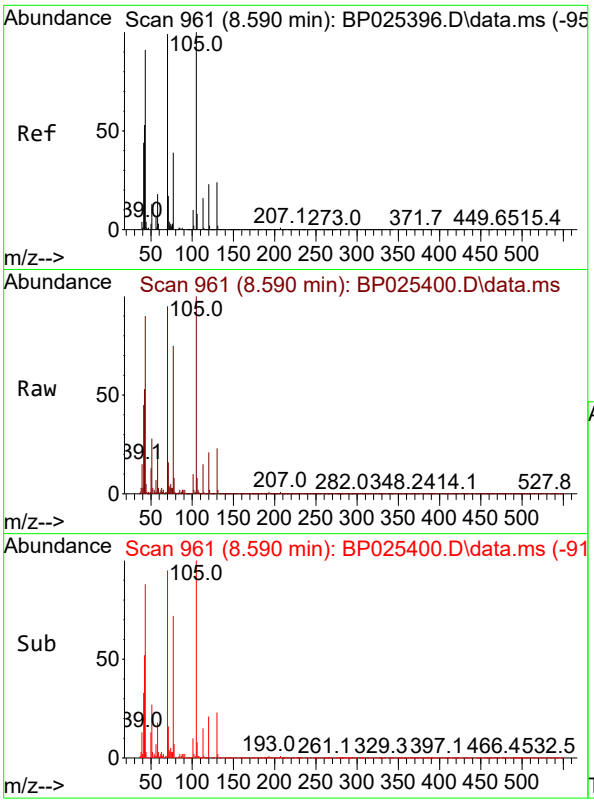


#18
Hexachloroethane
Concen: 38.103 ng
RT: 8.866 min Scan# 1008
Delta R.T. 0.000 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:117 Resp: 186691

Ion	Ratio	Lower	Upper
117	100		
119	95.0	75.1	112.7
201	105.6	80.1	120.1

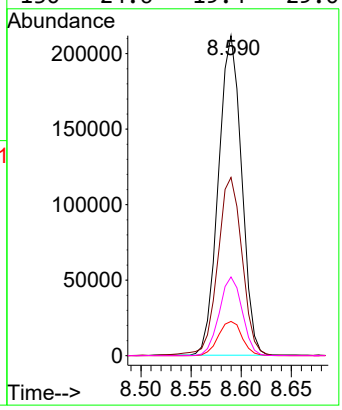




#19
n-Nitroso-di-n-propylamine
Concen: 38.270 ng
RT: 8.590 min Scan# 9
Delta R.T. 0.000 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion: 70 Resp: 34053

Ion	Ratio	Lower	Upper
70	100		
42	55.7	43.8	65.6
101	10.7	8.5	12.7
130	24.6	19.4	29.0



Instrument :
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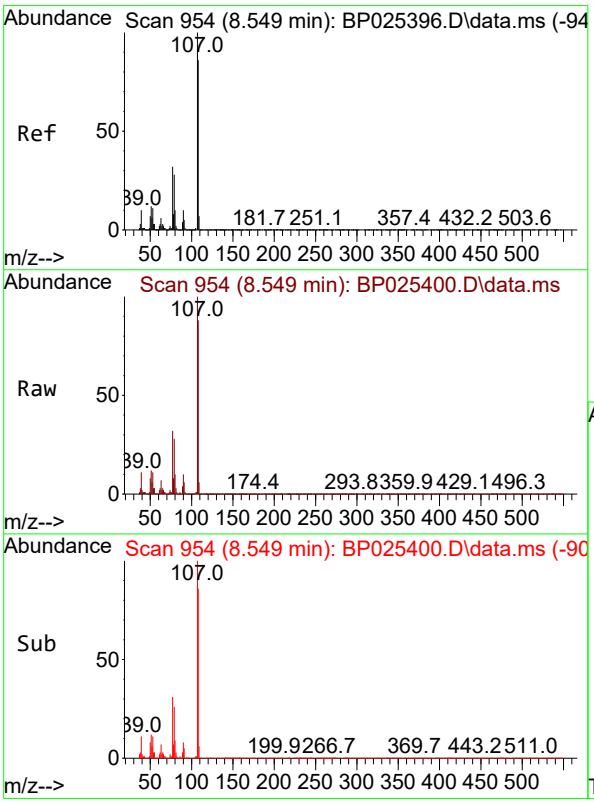
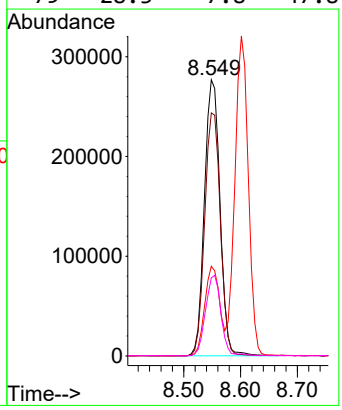
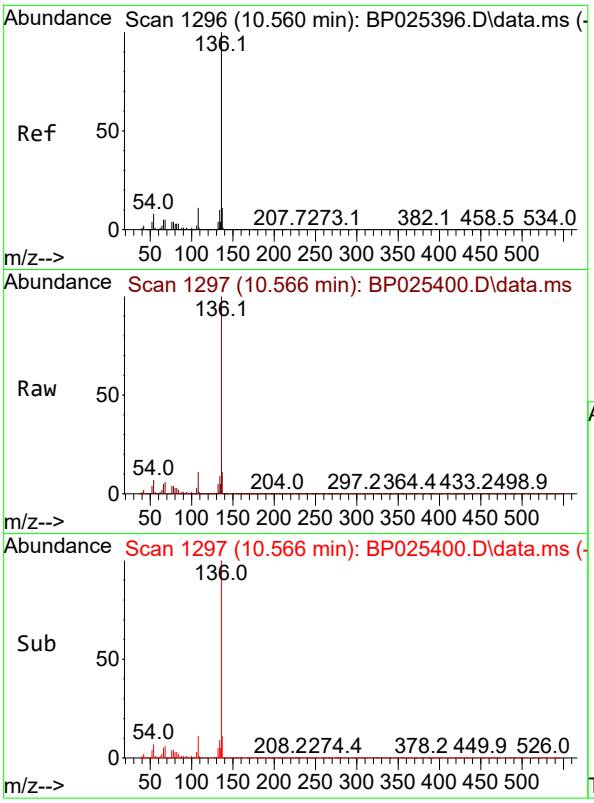


#20
3+4-Methylphenols
Concen: 38.620 ng
RT: 8.549 min Scan# 954
Delta R.T. 0.000 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:107 Resp: 524095

Ion	Ratio	Lower	Upper
107	100		
108	88.0	66.3	106.3
77	32.5	12.3	52.3
79	28.3	7.8	47.8

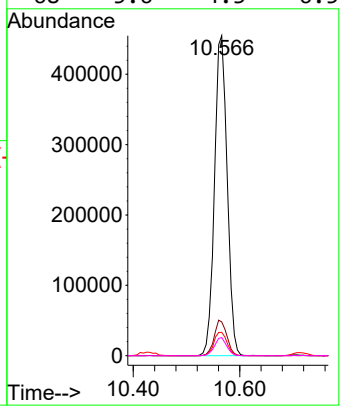




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.566 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:136 Resp: 75007

Ion	Ratio	Lower	Upper
136	100		
137	10.6	9.2	13.8
54	7.3	6.0	9.0
68	5.6	4.3	6.5



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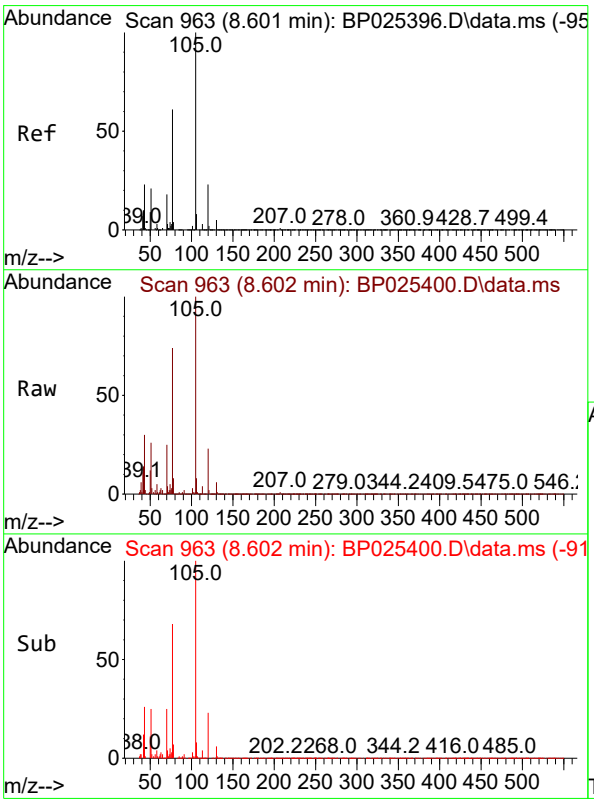
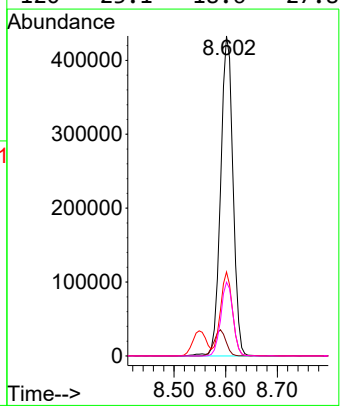
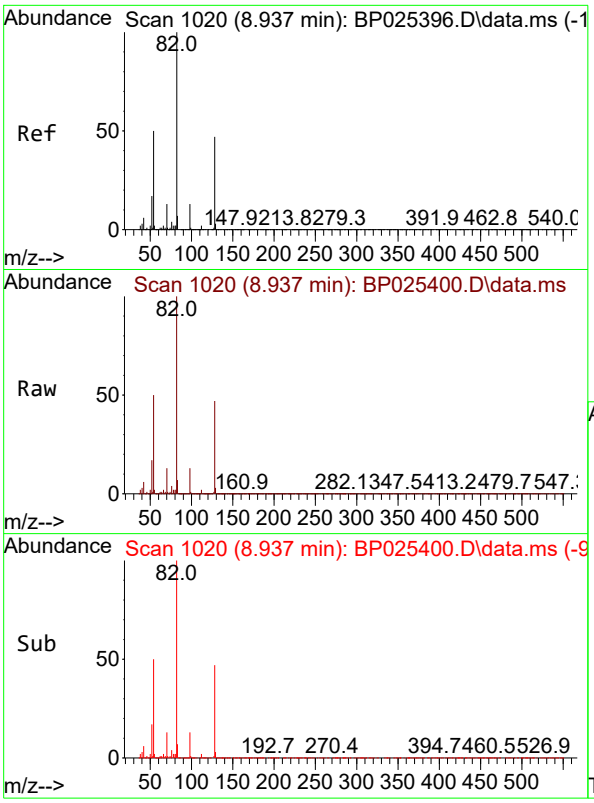


#22
Acetophenone
Concen: 38.216 ng
RT: 8.602 min Scan# 963
Delta R.T. 0.000 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:105 Resp: 718869

Ion	Ratio	Lower	Upper
105	100		
71	4.2	2.6	4.0#
51	26.2	20.6	30.8
120	23.1	18.6	27.8

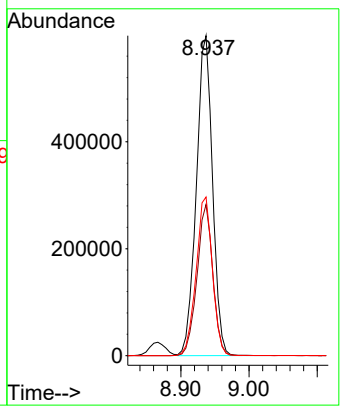




#23
Nitrobenzene-d5
Concen: 66.391 ng
RT: 8.937 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion: 82 Resp: 98444

Ion	Ratio	Lower	Upper
82	100		
128	47.3	37.7	56.5
54	49.6	39.8	59.6



Instrument :
BNA_P
ClientSampleId :
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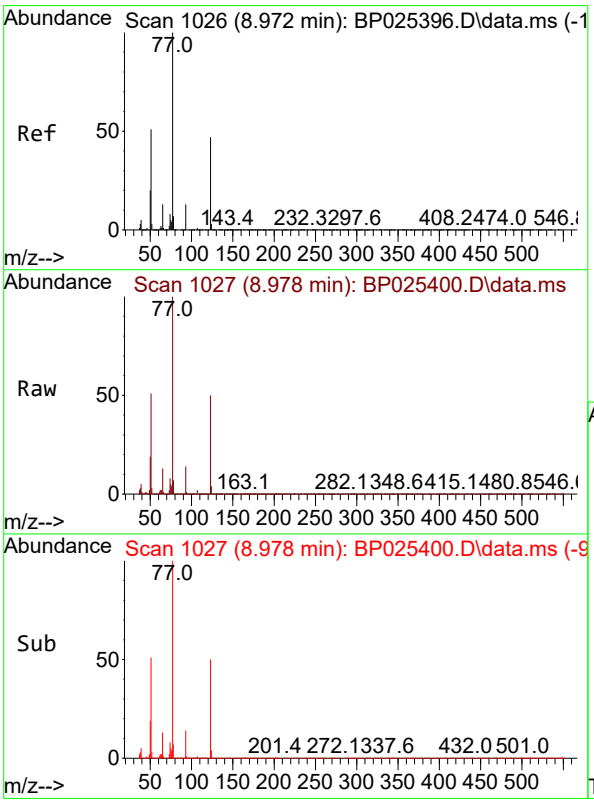
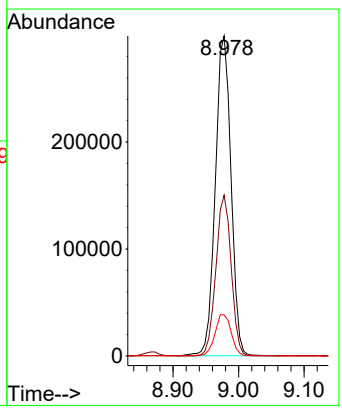
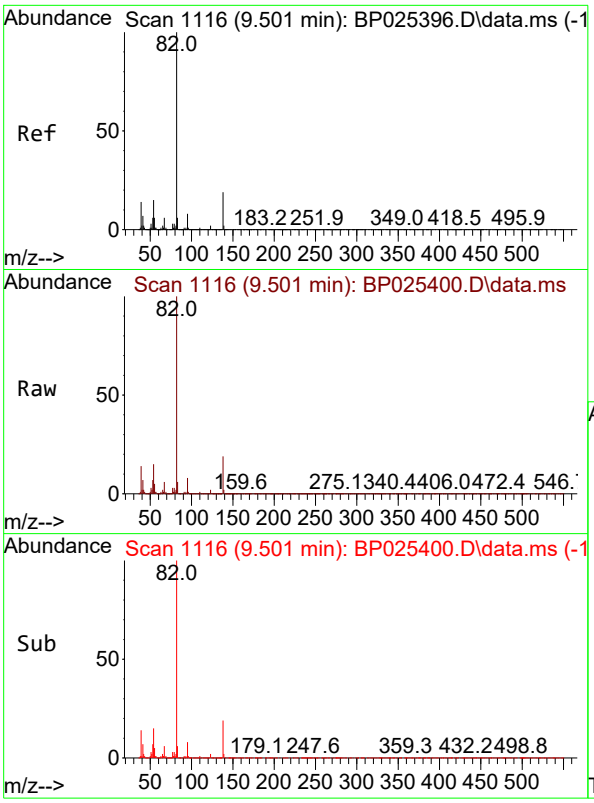


#24
Nitrobenzene
Concen: 37.313 ng
RT: 8.978 min Scan# 1027
Delta R.T. 0.006 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion: 77 Resp: 494466

Ion	Ratio	Lower	Upper
77	100		
123	50.3	38.6	58.0
65	12.9	10.6	15.8





#25
Isophorone
Concen: 37.855 ng
RT: 9.501 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion: 82 Resp: 99337

Ion	Ratio	Lower	Upper
82	100		
95	7.7	6.4	9.6
138	18.9	15.4	23.0

Instrument :
BNA_P
ClientSampleId :
ICVBP081425

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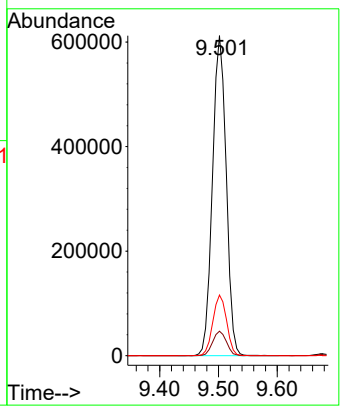
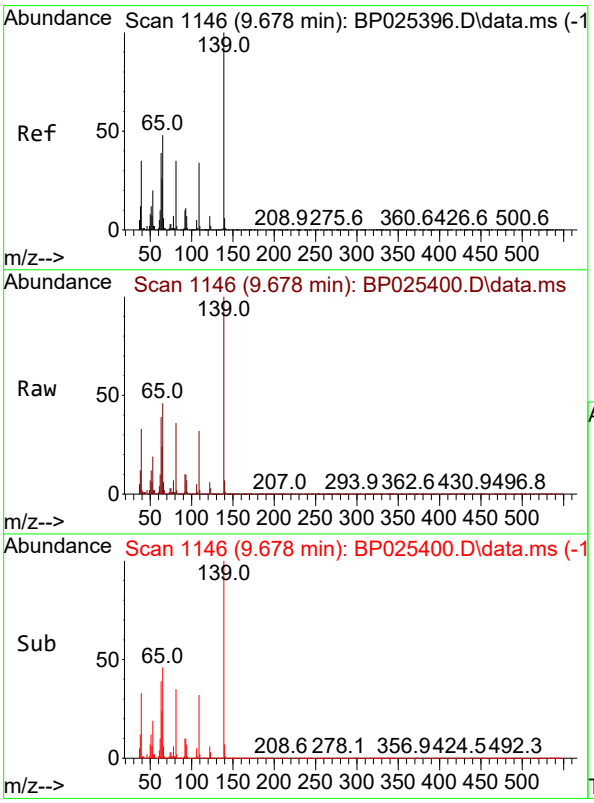
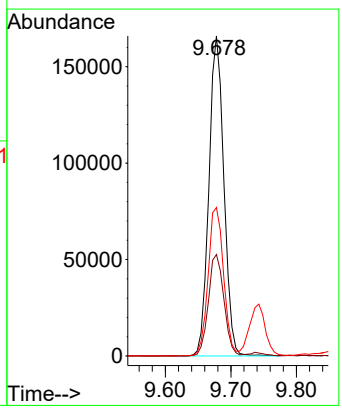


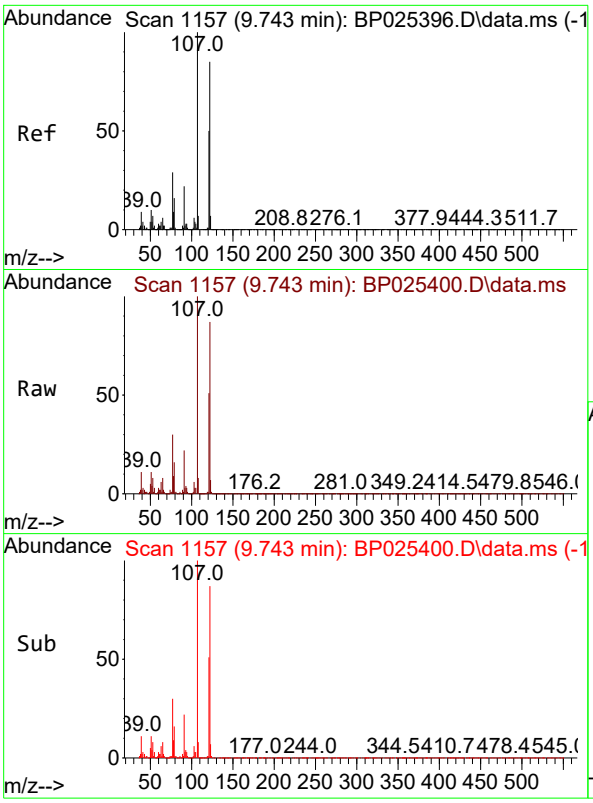


#26
2-Nitrophenol
Concen: 38.722 ng
RT: 9.678 min Scan# 1146
Delta R.T. 0.000 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:139 Resp: 263348

Ion	Ratio	Lower	Upper
139	100		
109	31.7	26.9	40.3
65	46.4	38.3	57.5

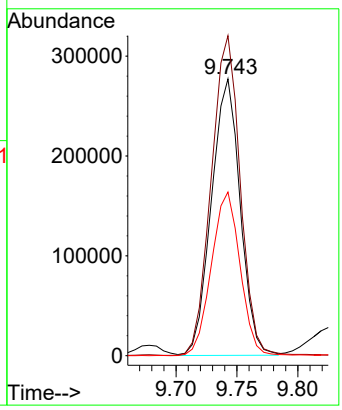




#27
2,4-Dimethylphenol
Concen: 38.910 ng
RT: 9.743 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:122 Resp: 45507

Ion	Ratio	Lower	Upper
122	100		
107	115.6	93.7	140.5
121	59.1	46.6	69.8



Instrument :
BNA_P
ClientSampleId :
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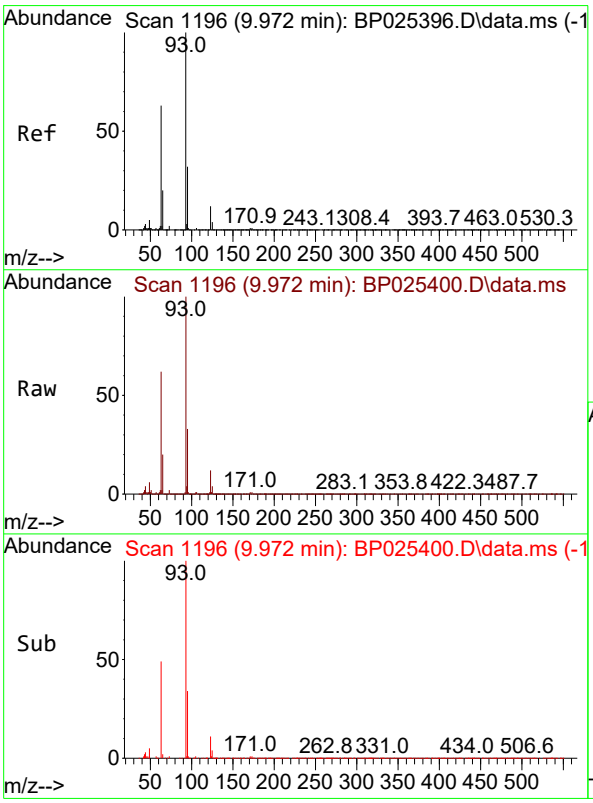
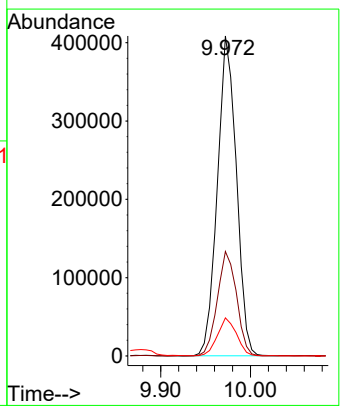
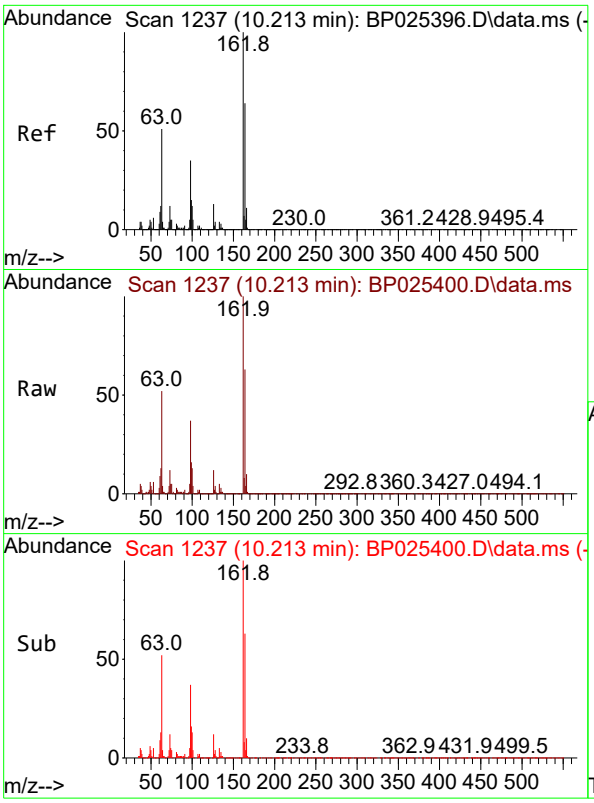


#28
bis(2-Chloroethoxy)methane
Concen: 37.816 ng
RT: 9.972 min Scan# 1196
Delta R.T. 0.000 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion: 93 Resp: 599862

Ion	Ratio	Lower	Upper
93	100		
95	32.7	25.4	38.0
123	11.9	9.4	14.0

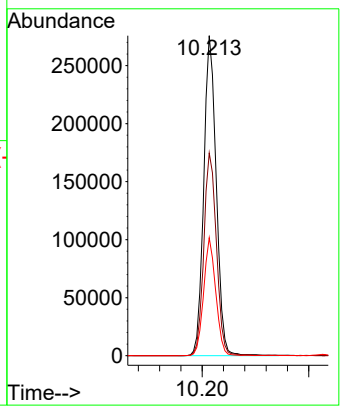




#29
2,4-Dichlorophenol
Concen: 38.649 ng
RT: 10.213 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:162 Resp: 44903

Ion	Ratio	Lower	Upper
162	100		
164	63.3	44.4	84.4
98	36.9	14.9	54.9



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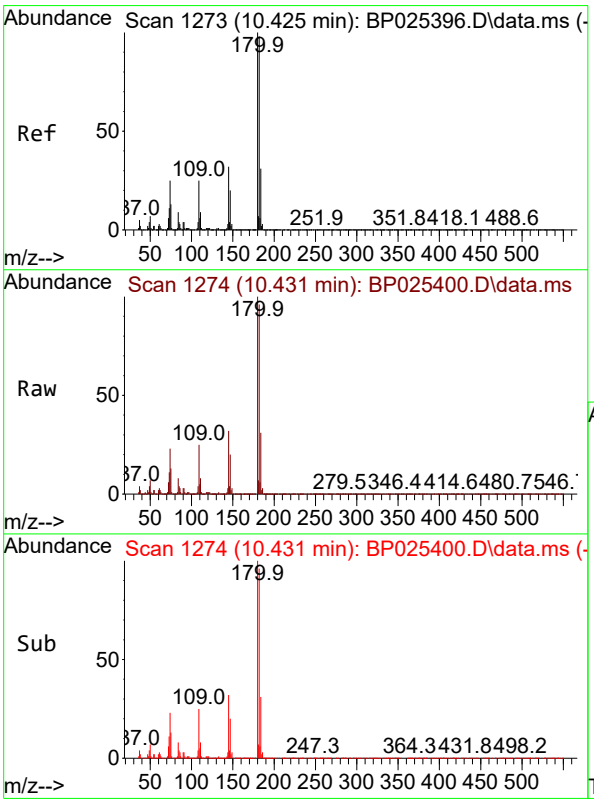
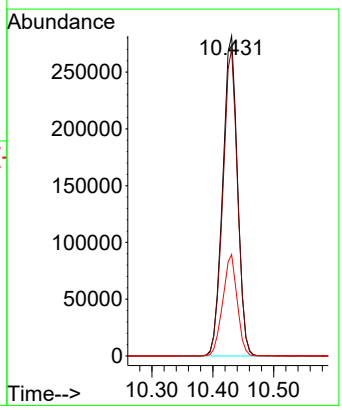
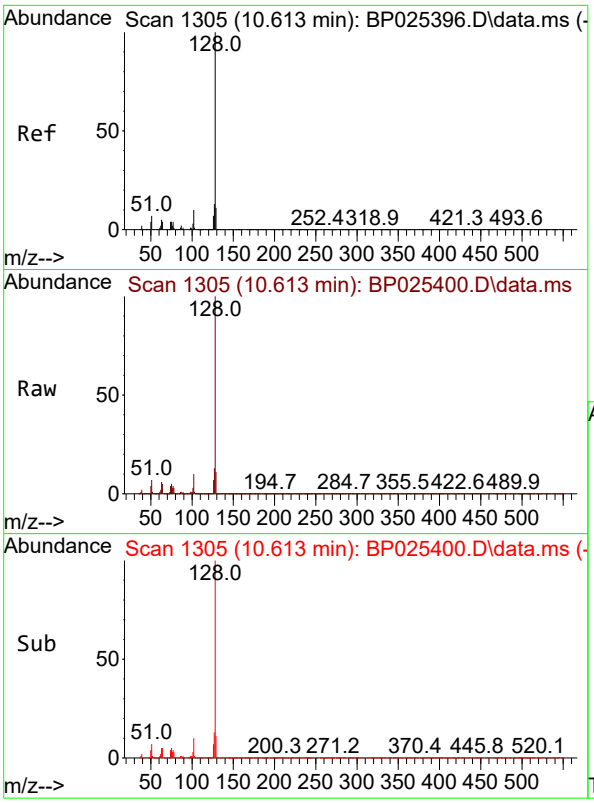


#30
1,2,4-Trichlorobenzene
Concen: 37.231 ng
RT: 10.431 min Scan# 1274
Delta R.T. 0.006 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:180 Resp: 474183

Ion	Ratio	Lower	Upper
180	100		
182	95.9	78.0	117.0
145	31.7	25.9	38.9





#31
Naphthalene
Concen: 37.431 ng
RT: 10.613 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:128 Resp: 145927

Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.6	13.0
127	12.8	10.7	16.1

Instrument :
BNA_P
ClientSampleId :
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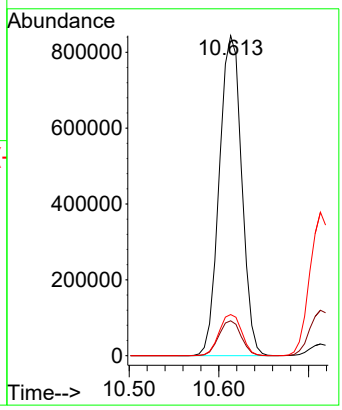
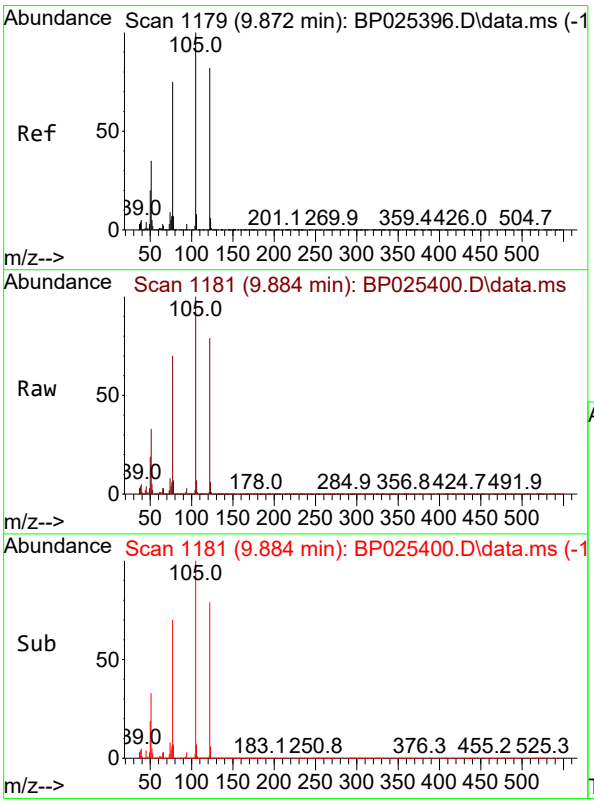
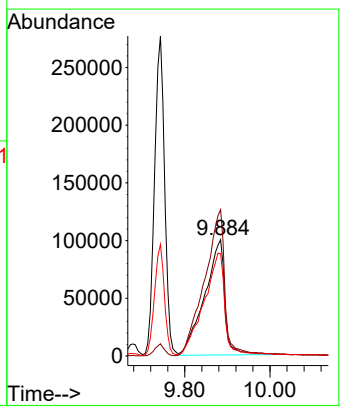


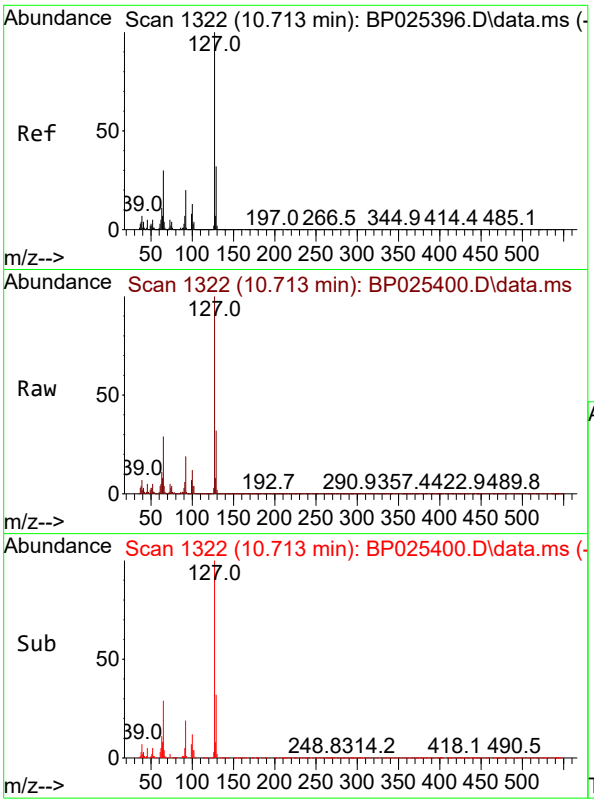


#32
Benzoic acid
Concen: 38.242 ng
RT: 9.884 min Scan# 1181
Delta R.T. 0.012 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:122 Resp: 330207

Ion	Ratio	Lower	Upper
122	100		
105	126.0	100.6	140.6
77	88.0	71.5	111.5

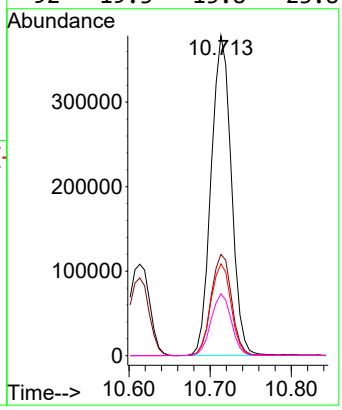




#33
4-Chloroaniline
Concen: 38.043 ng
RT: 10.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:127 Resp: 65513

Ion	Ratio	Lower	Upper
127	100		
129	31.7	25.4	38.2
65	28.7	23.8	35.6
92	19.3	15.8	23.8



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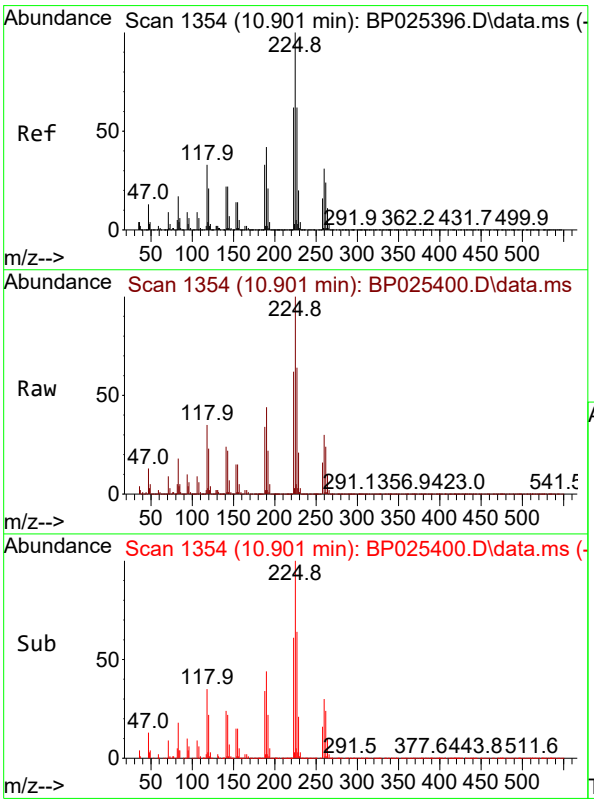
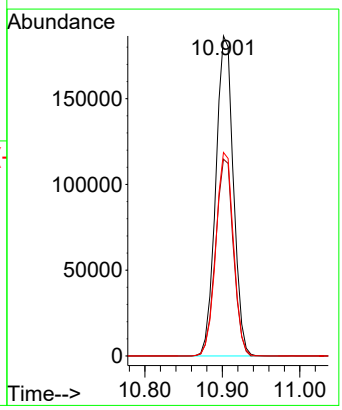
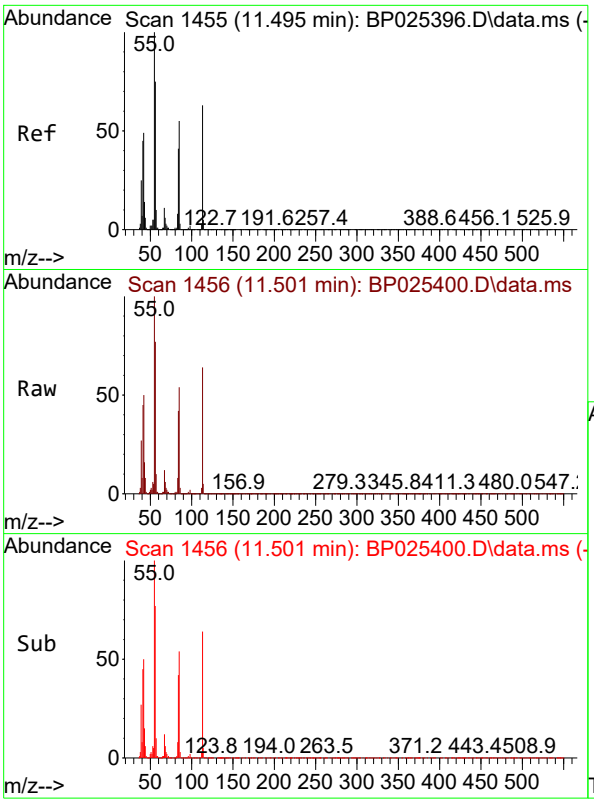


#34
Hexachlorobutadiene
Concen: 37.031 ng
RT: 10.901 min Scan# 1354
Delta R.T. 0.000 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:225 Resp: 293728

Ion	Ratio	Lower	Upper
225	100		
223	61.5	50.0	75.0
227	63.6	49.7	74.5

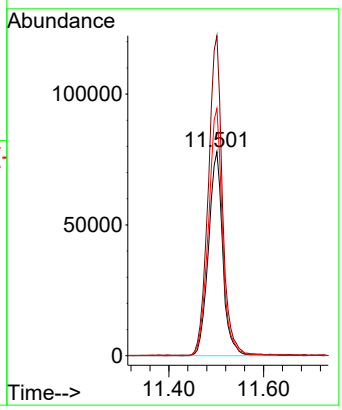




#35
Caprolactam
Concen: 38.310 ng
RT: 11.501 min Scan# 14
Delta R.T. 0.006 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:113 Resp: 16321

Ion	Ratio	Lower	Upper
113	100		
55	156.9	140.0	180.0
56	121.2	100.0	140.0



Instrument :
BNA_P
ClientSampleId :
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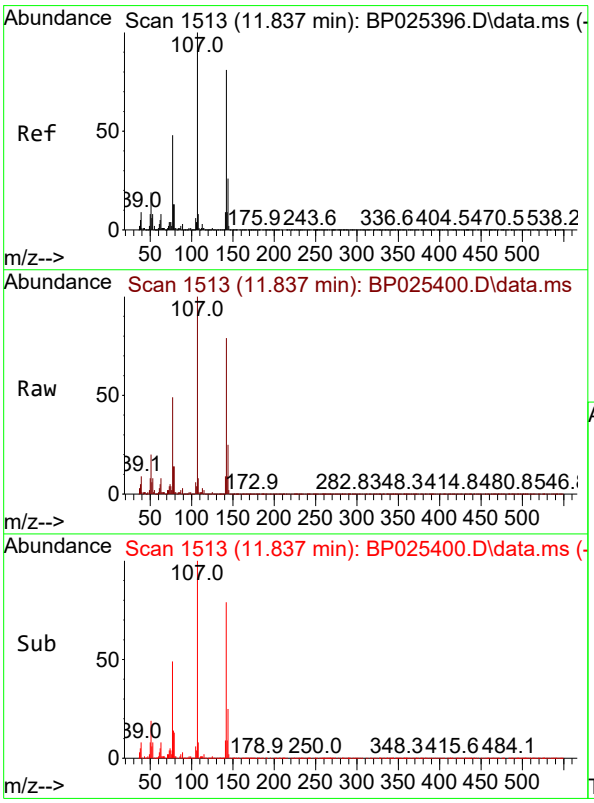
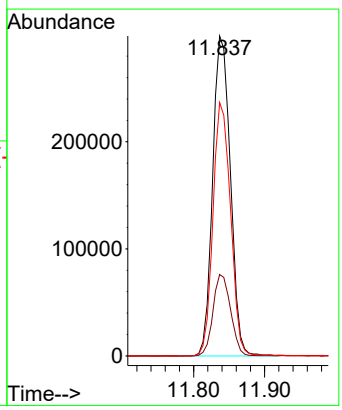
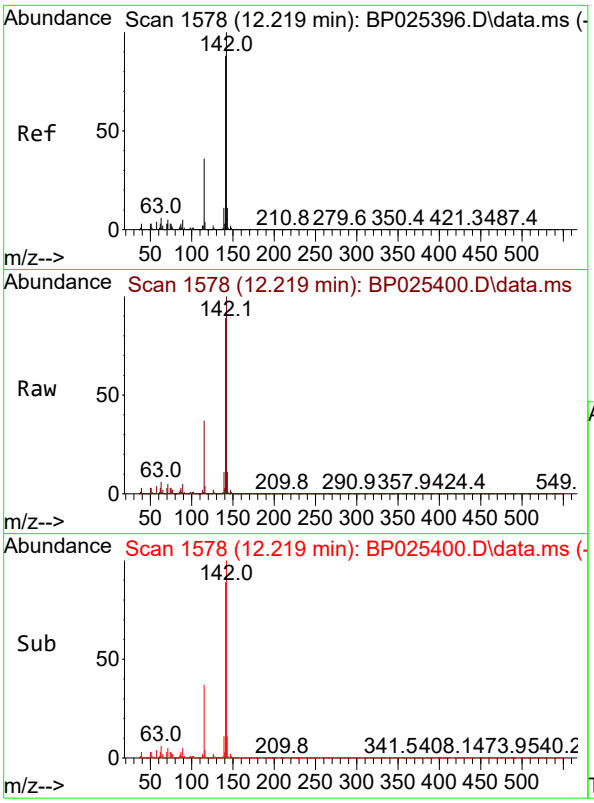


#36
4-Chloro-3-methylphenol
Concen: 38.789 ng
RT: 11.837 min Scan# 1513
Delta R.T. 0.000 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:107 Resp: 517126

Ion	Ratio	Lower	Upper
107	100		
144	25.4	21.0	31.4
142	79.2	64.6	97.0

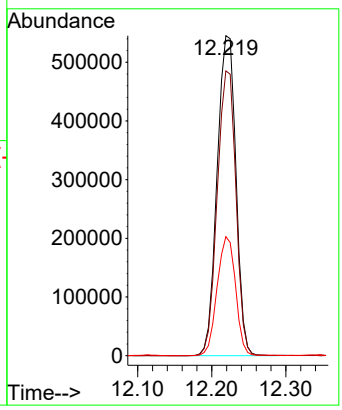




#37
2-Methylnaphthalene
Concen: 37.845 ng
RT: 12.219 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:142 Resp: 96014

Ion	Ratio	Lower	Upper
142	100		
141	89.0	70.3	105.5
115	37.2	28.9	43.3



Instrument :
BNA_P
ClientSampleId :
ICVBP081425

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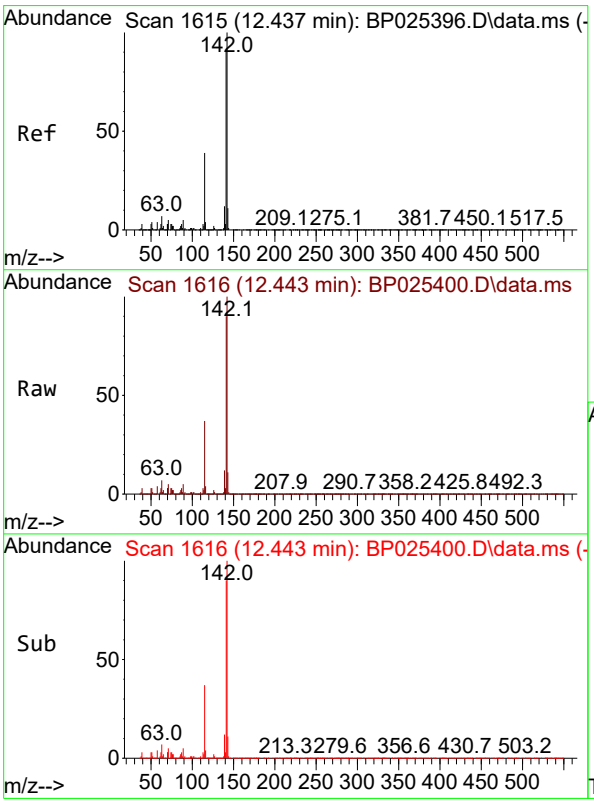
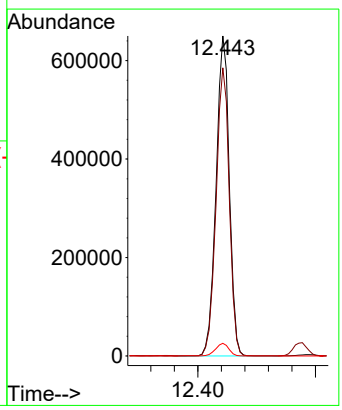
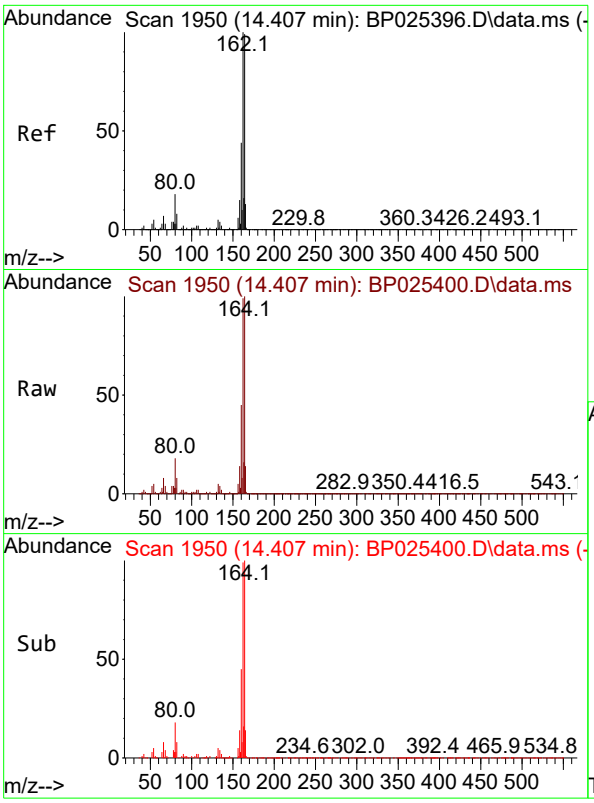


#38
1-Methylnaphthalene
Concen: 37.539 ng
RT: 12.443 min Scan# 1616
Delta R.T. 0.006 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:142 Resp: 1012844

Ion	Ratio	Lower	Upper
142	100		
141	90.0	73.1	109.7
116	3.9	3.2	4.8

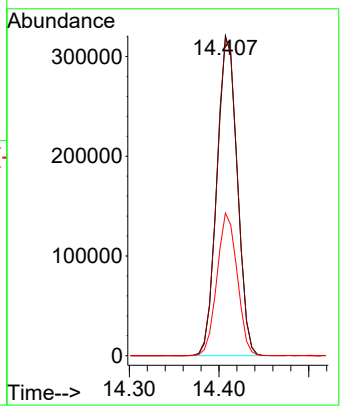




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.407 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:164 Resp: 50323

Ion	Ratio	Lower	Upper
164	100		
162	99.1	81.0	121.6
160	44.5	35.4	53.2



Instrument :
BNA_P
ClientSampleId :
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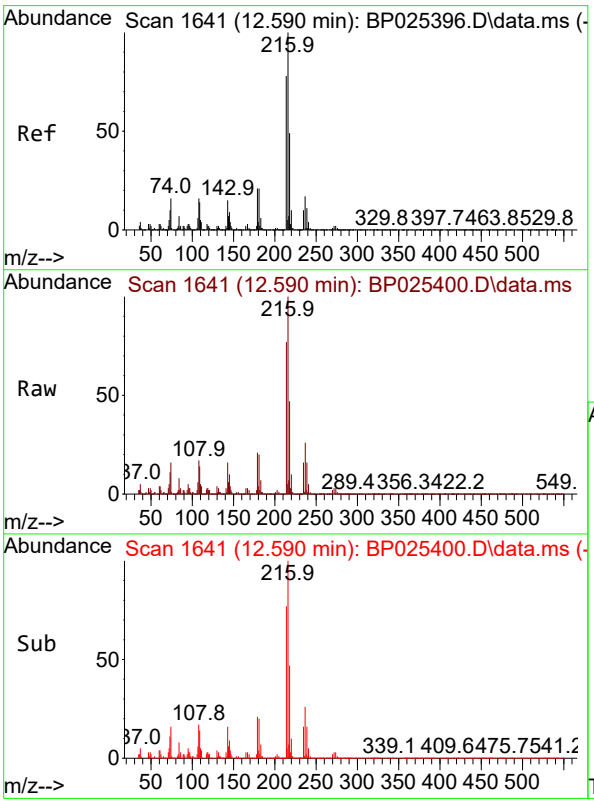
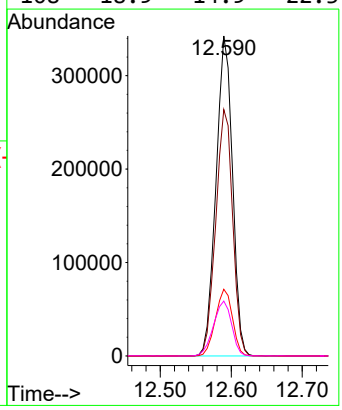
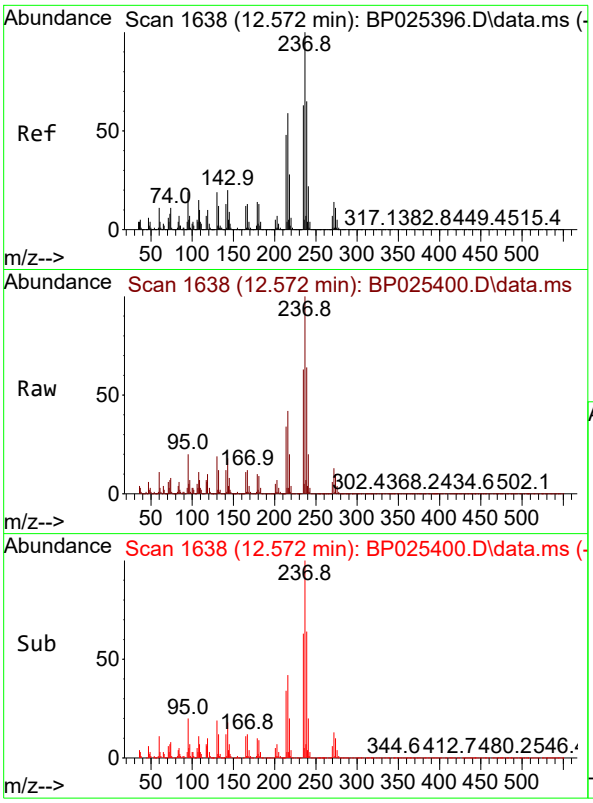


#40
1,2,4,5-Tetrachlorobenzene
Concen: 37.895 ng
RT: 12.590 min Scan# 1641
Delta R.T. 0.000 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:216 Resp: 550777

Ion	Ratio	Lower	Upper
216	100		
214	78.8	63.0	94.4
179	21.4	17.1	25.7
108	18.9	14.9	22.3





#41
Hexachlorocyclopentadiene
Concen: 40.074 ng
RT: 12.572 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:237 Resp: 35181

Ion	Ratio	Lower	Upper
237	100		
235	62.7	42.7	82.7
272	13.0	0.0	34.0

Instrument :
BNA_P
ClientSampleId :
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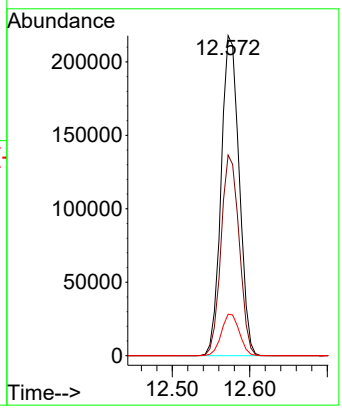
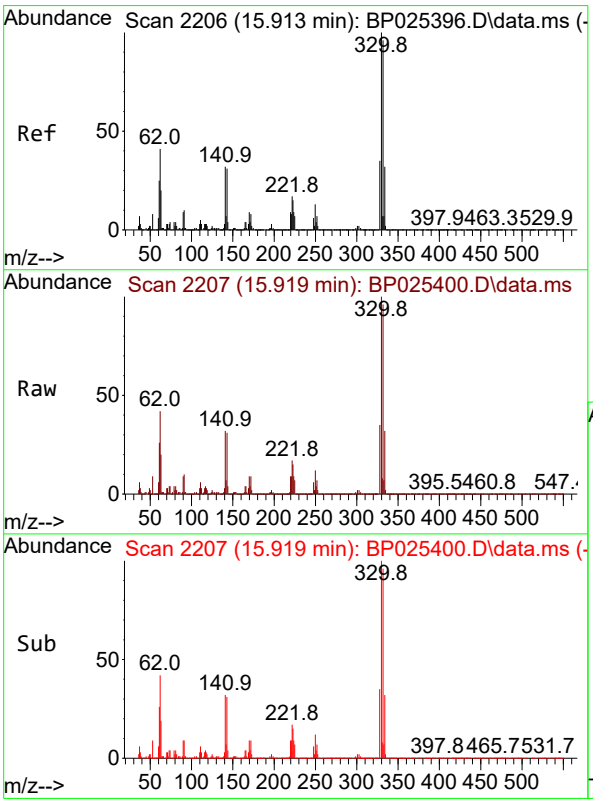
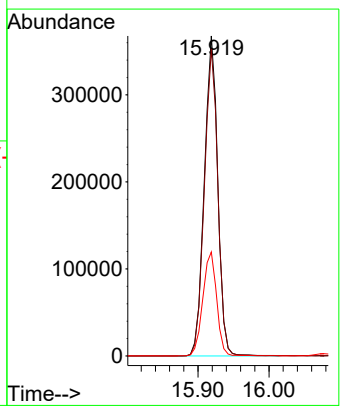


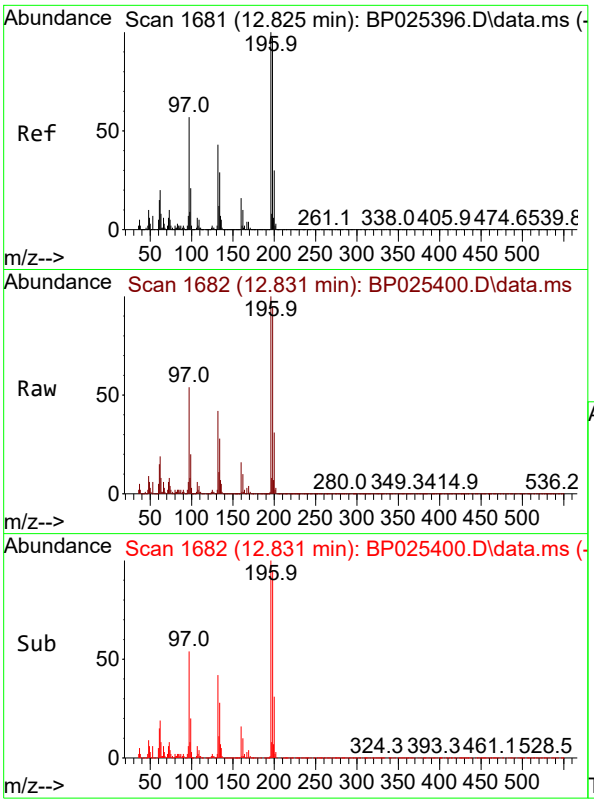


#42
2,4,6-Tribromophenol
Concen: 71.582 ng
RT: 15.919 min Scan# 2207
Delta R.T. 0.006 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:330 Resp: 484870

Ion	Ratio	Lower	Upper
330	100		
332	96.4	77.3	115.9
141	33.4	26.6	39.8





#43
2,4,6-Trichlorophenol
Concen: 38.972 ng
RT: 12.831 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:196 Resp: 38239

Ion	Ratio	Lower	Upper
196	100		
198	94.8	77.2	115.8
200	31.1	23.9	35.9

Instrument :
BNA_P
ClientSampleId :
ICVBP081425

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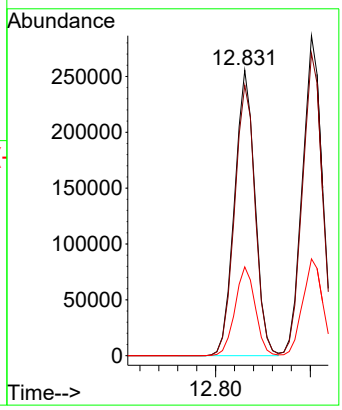
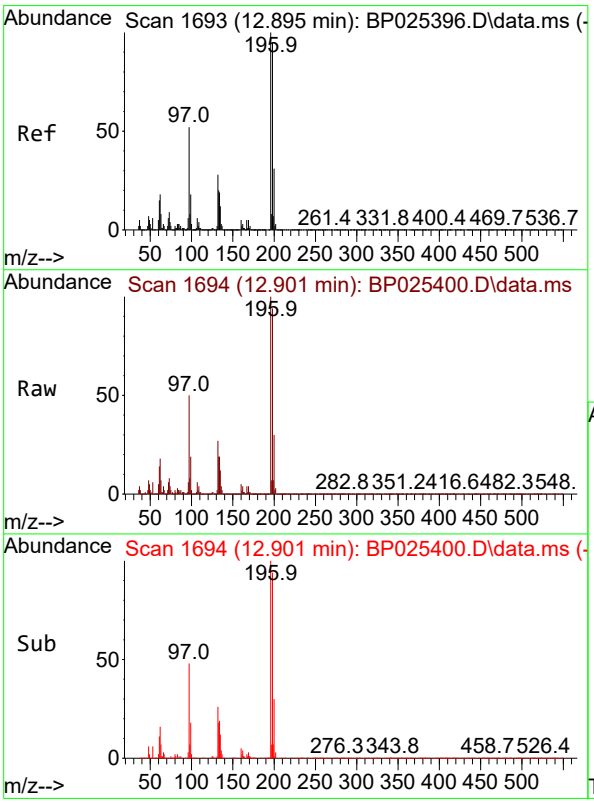
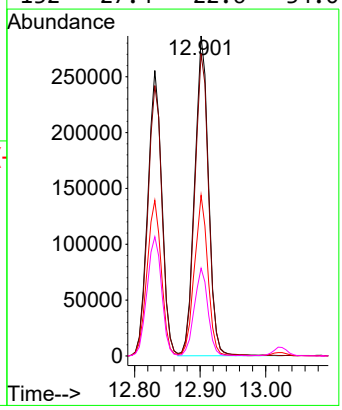


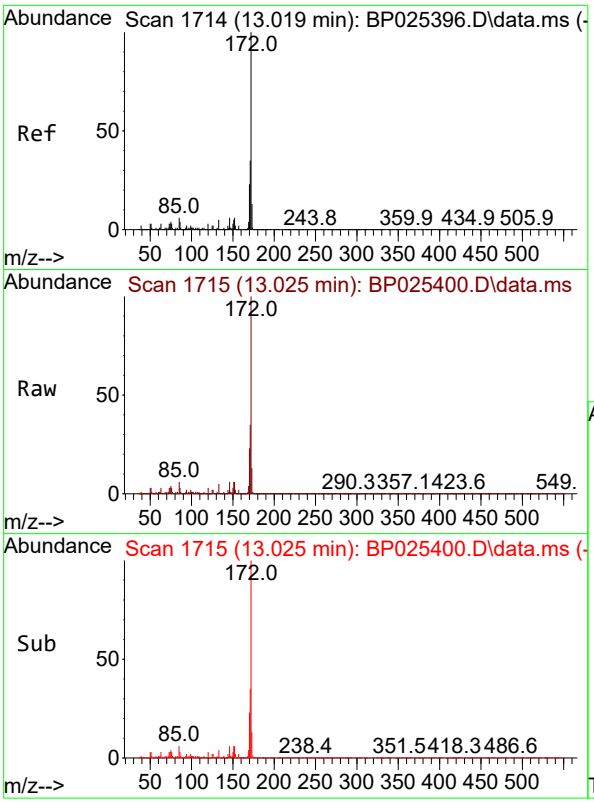


#44
2,4,5-Trichlorophenol
Concen: 39.108 ng
RT: 12.901 min Scan# 1694
Delta R.T. 0.006 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:196 Resp: 420565

Ion	Ratio	Lower	Upper
196	100		
198	94.5	76.2	114.2
97	50.2	41.2	61.8
132	27.4	22.6	34.0

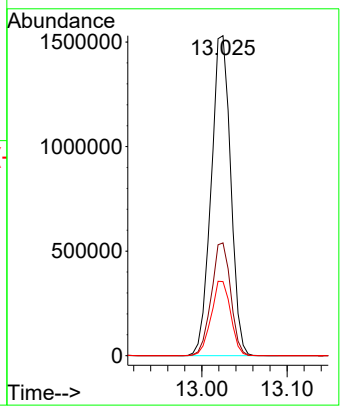




#45
2-Fluorobiphenyl
Concen: 66.016 ng
RT: 13.025 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:172 Resp: 243082

Ion	Ratio	Lower	Upper
172	100		
171	35.3	28.1	42.1
170	23.1	18.6	28.0



Instrument :
BNA_P
ClientSampleId :
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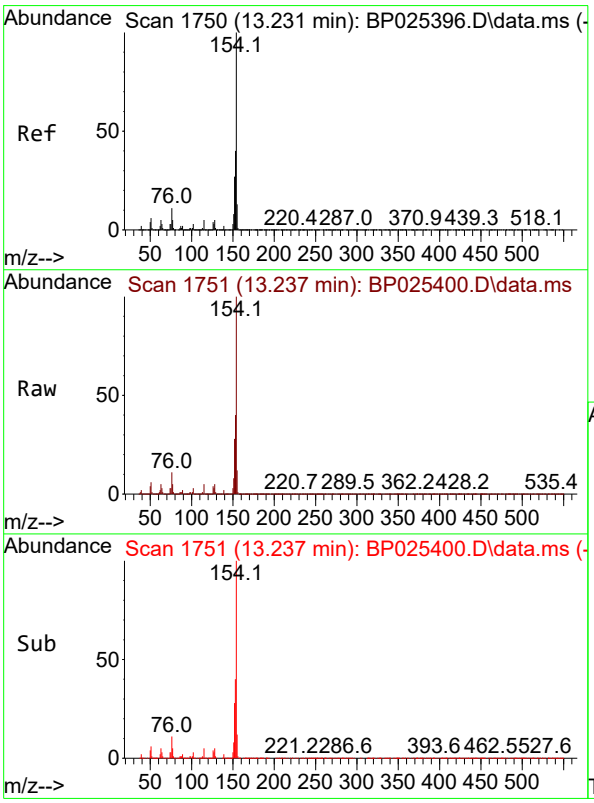
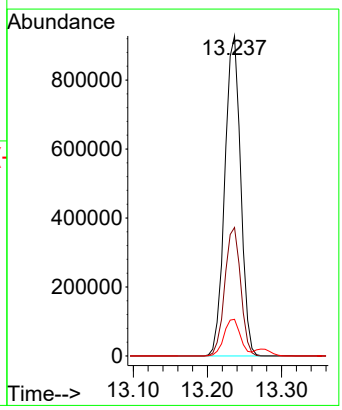
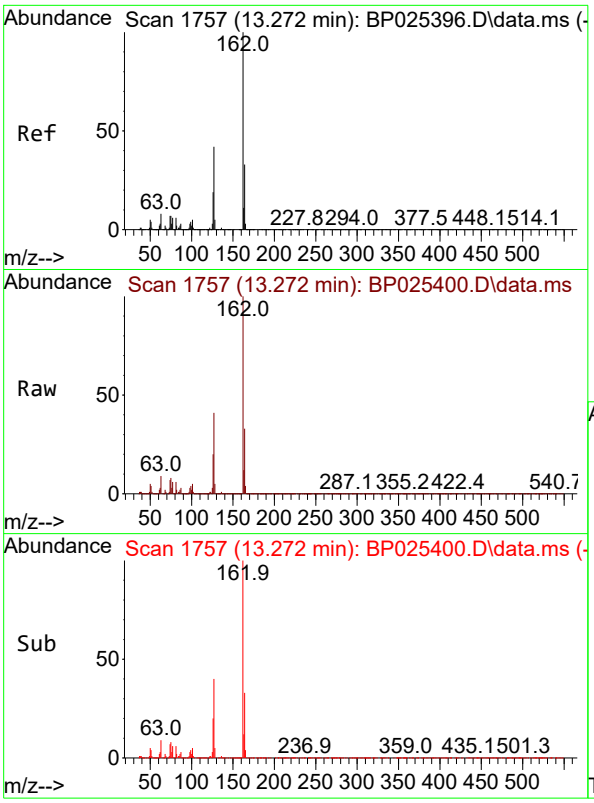


#46
1,1'-Biphenyl
Concen: 37.672 ng
RT: 13.237 min Scan# 1751
Delta R.T. 0.006 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:154 Resp: 1376834

Ion	Ratio	Lower	Upper
154	100		
153	40.2	19.5	59.5
76	11.4	0.0	31.1

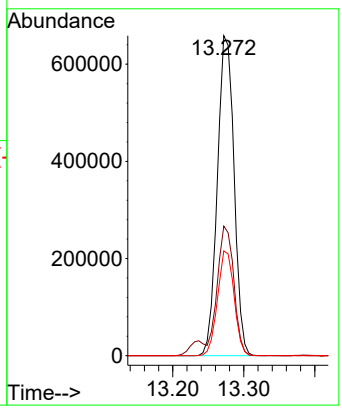




#47
2-Chloronaphthalene
Concen: 37.682 ng
RT: 13.272 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:162 Resp: 107214

Ion	Ratio	Lower	Upper
162	100		
127	40.5	33.4	50.2
164	32.8	26.2	39.2



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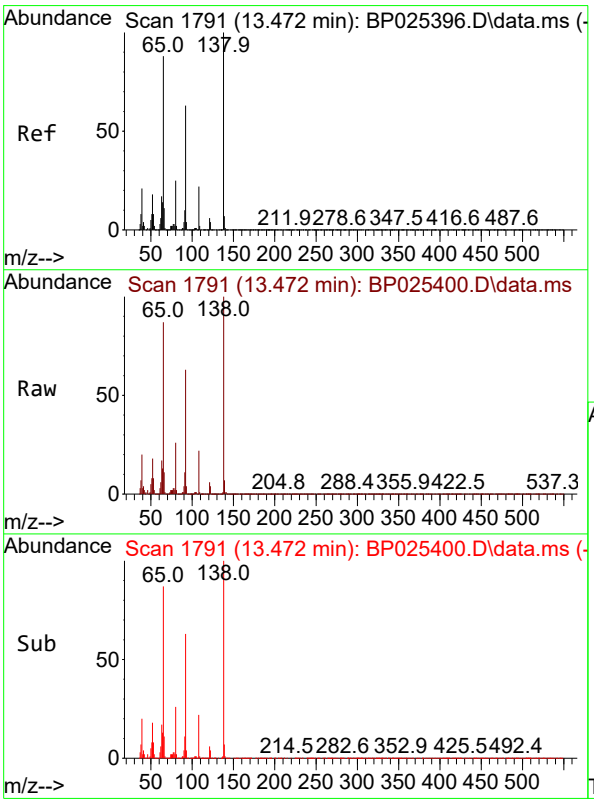
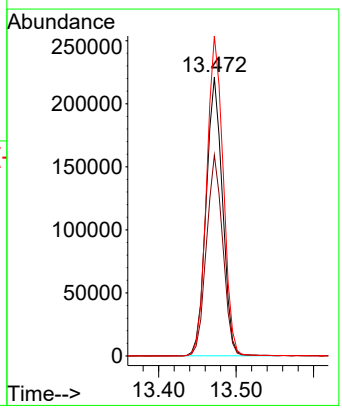
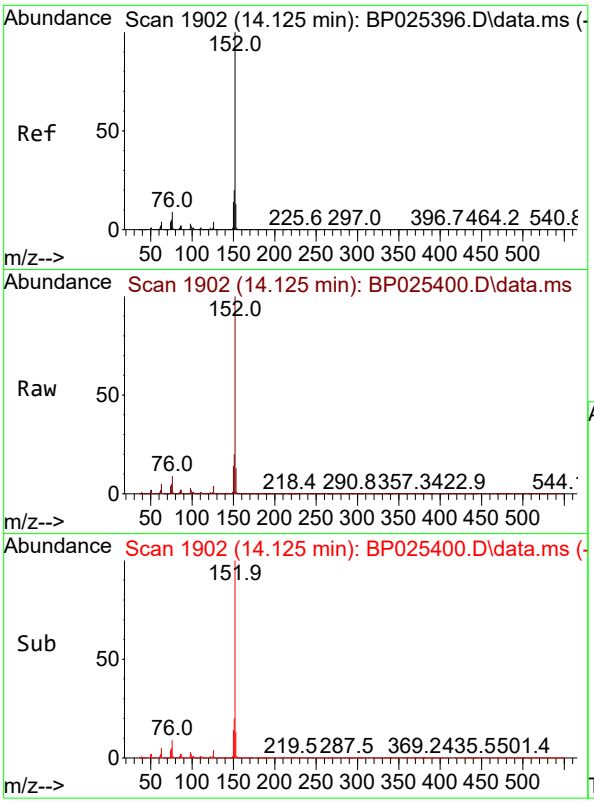


#48
2-Nitroaniline
Concen: 39.081 ng
RT: 13.472 min Scan# 1791
Delta R.T. 0.000 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion: 65 Resp: 323995

Ion	Ratio	Lower	Upper
65	100		
92	72.2	57.6	86.4
138	114.9	91.0	136.6

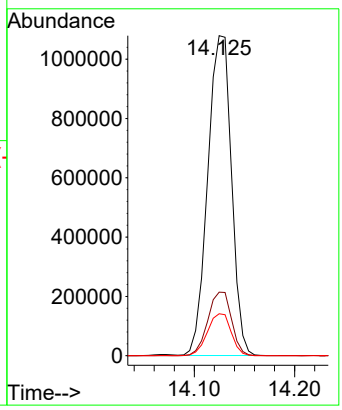




#49
Acenaphthylene
Concen: 37.720 ng
RT: 14.125 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:152 Resp: 177589

Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.0	24.0
153	13.1	10.6	15.8



Instrument :
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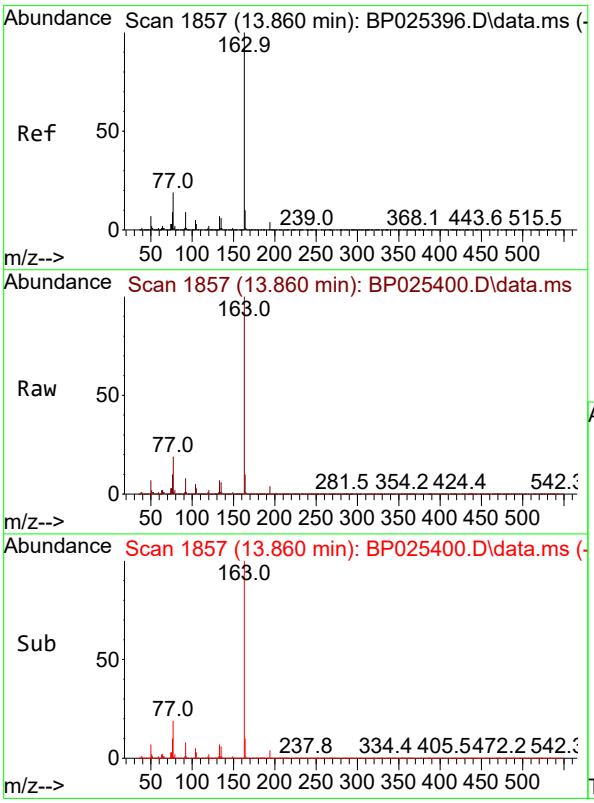
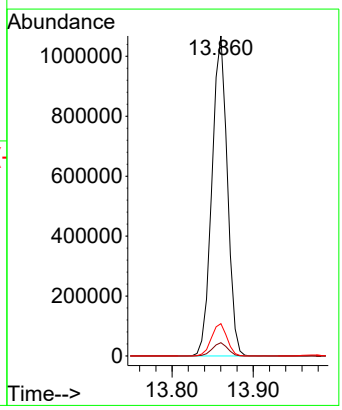
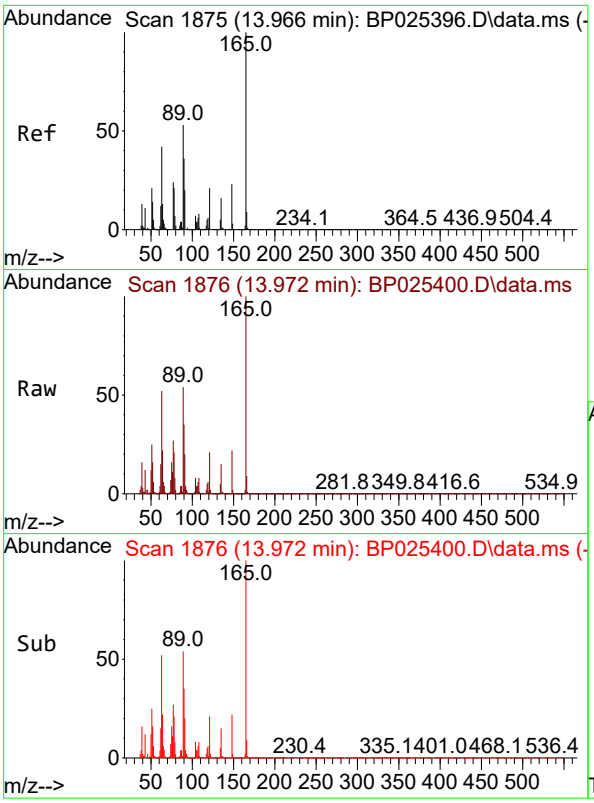


#50
Dimethylphthalate
Concen: 38.170 ng
RT: 13.860 min Scan# 1857
Delta R.T. 0.000 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:163 Resp: 1406620

Ion	Ratio	Lower	Upper
163	100		
194	4.2	3.4	5.0
164	10.1	7.9	11.9

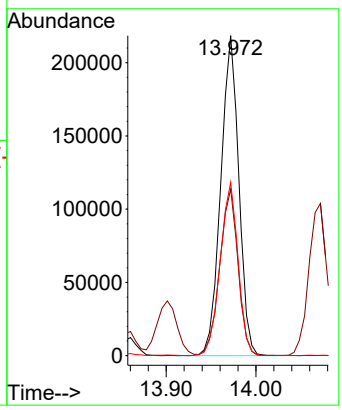




#51
2,6-Dinitrotoluene
Concen: 39.211 ng
RT: 13.972 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:165 Resp: 30456

Ion	Ratio	Lower	Upper
165	100		
63	52.1	40.9	61.3
89	54.2	42.1	63.1



Instrument :
BNA_P
ClientSampleId :
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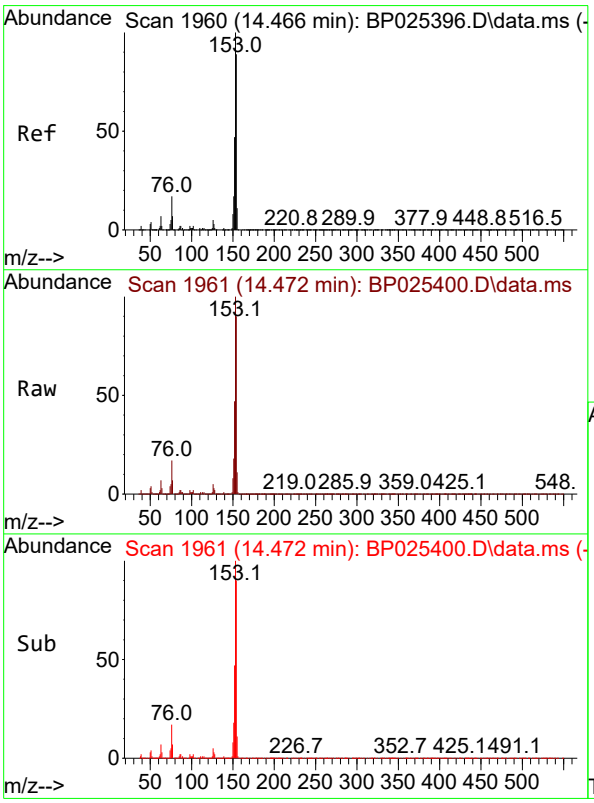
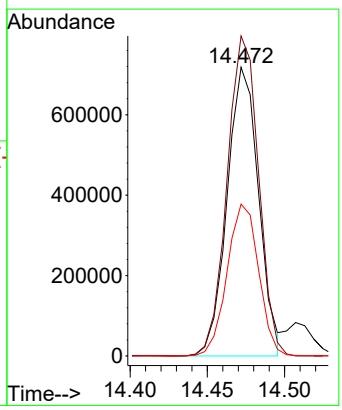
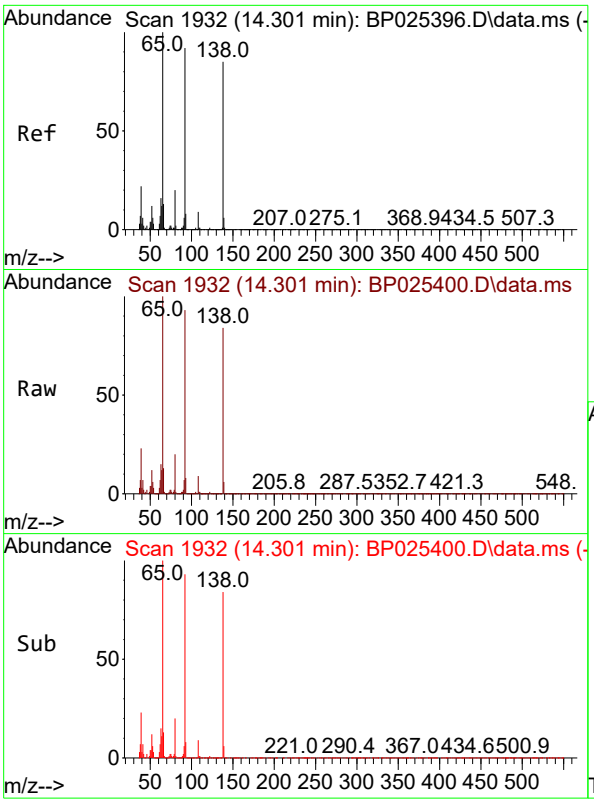


#52
Acenaphthene
Concen: 36.837 ng m
RT: 14.472 min Scan# 1961
Delta R.T. 0.006 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:154 Resp: 1018011

Ion	Ratio	Lower	Upper
154	100		
153	110.9	90.2	135.2
152	52.6	42.1	63.1

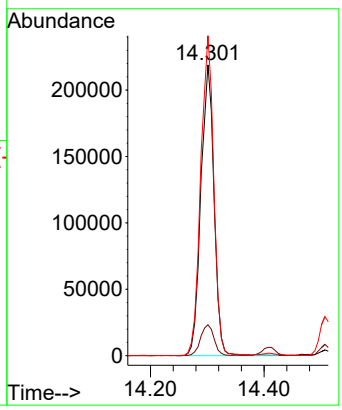




#53
3-Nitroaniline
Concen: 40.027 ng
RT: 14.301 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:138 Resp: 34979

Ion	Ratio	Lower	Upper
138	100		
108	10.6	8.3	12.5
92	110.0	86.2	129.2



Instrument :
BNA_P
ClientSampleId :
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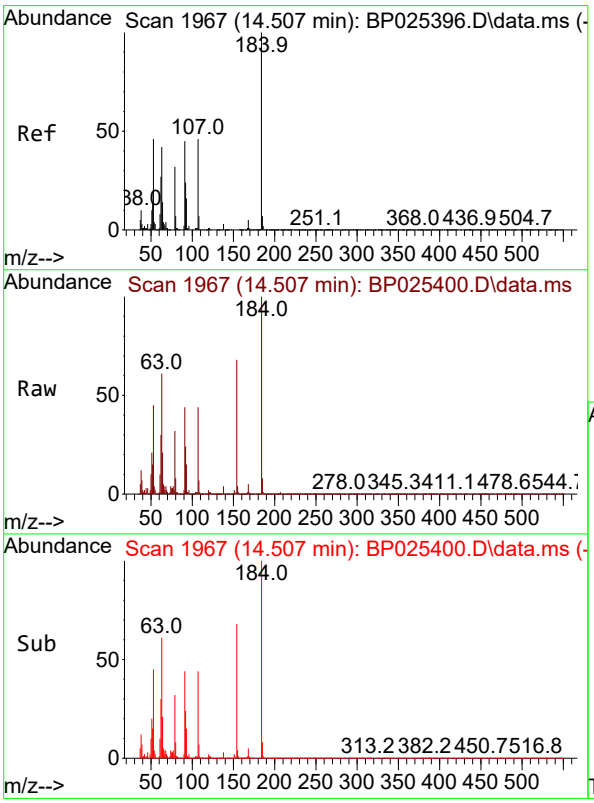
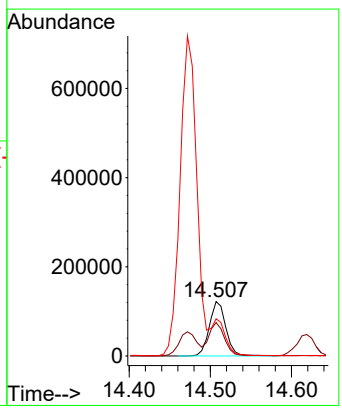
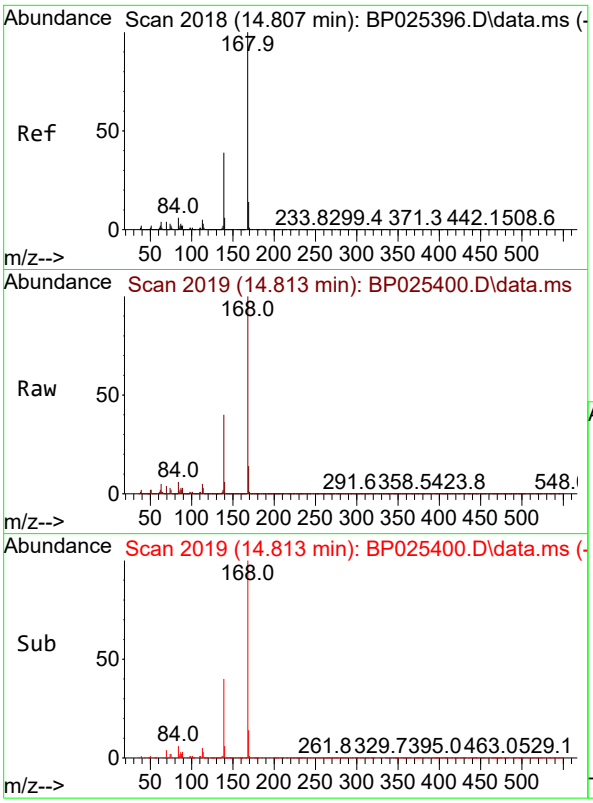


#54
2,4-Dinitrophenol
Concen: 41.646 ng
RT: 14.507 min Scan# 1967
Delta R.T. 0.000 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:184 Resp: 172743

Ion	Ratio	Lower	Upper
184	100		
63	61.3	49.4	74.2
154	68.1	54.6	82.0

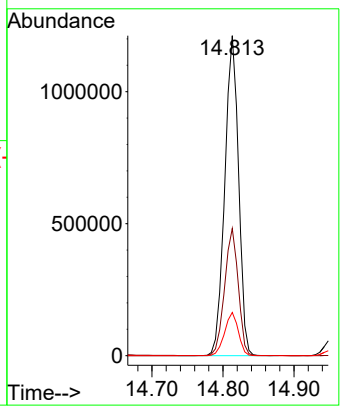




#55
Dibenzofuran
Concen: 37.324 ng
RT: 14.813 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:168 Resp: 163074

Ion	Ratio	Lower	Upper
168	100		
139	39.8	31.5	47.3
169	13.5	10.9	16.3



Instrument :
BNA_P
ClientSampleId :
ICVBP081425

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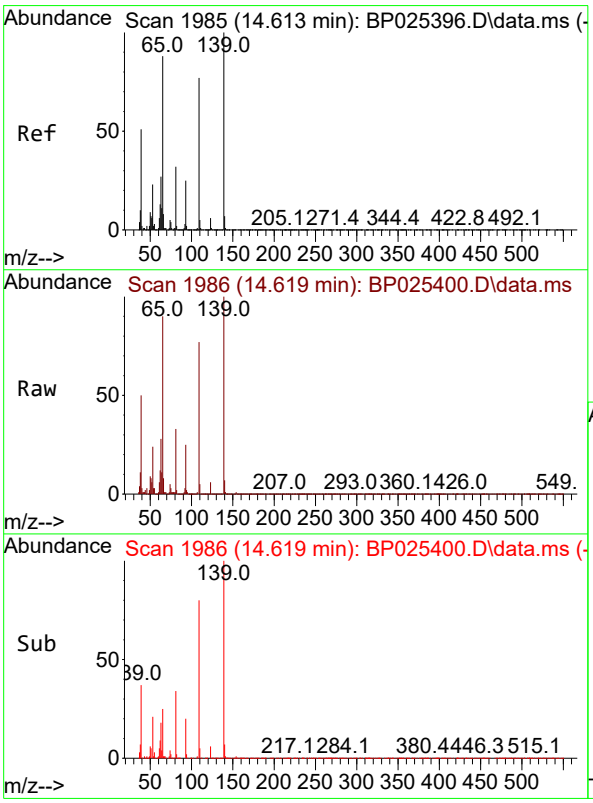
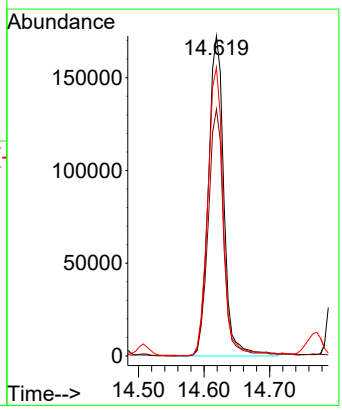
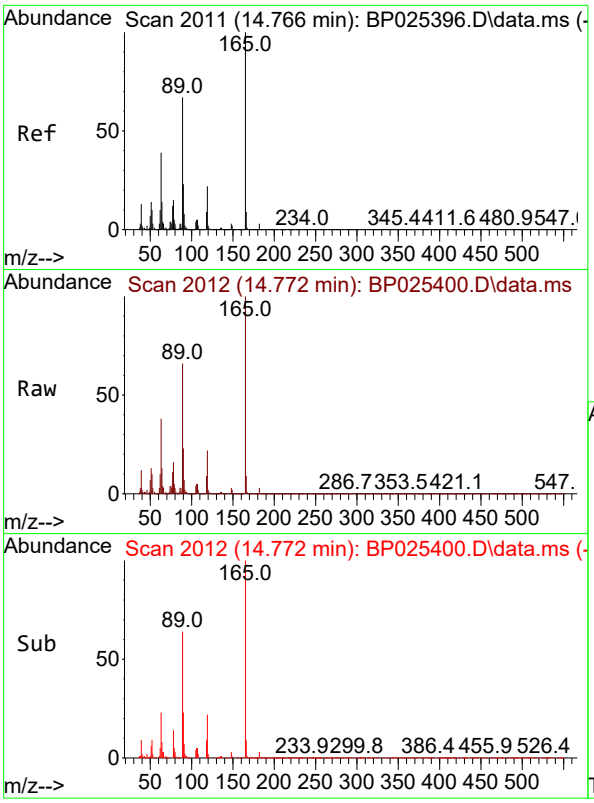


#56
4-Nitrophenol
Concen: 39.630 ng
RT: 14.619 min Scan# 1986
Delta R.T. 0.006 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:139 Resp: 284585

Ion	Ratio	Lower	Upper
139	100		
109	77.1	56.6	96.6
65	90.2	68.2	108.2

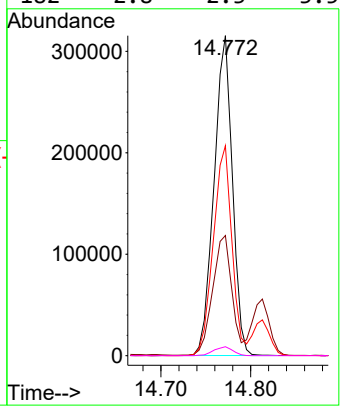




#57
2,4-Dinitrotoluene
Concen: 40.439 ng
RT: 14.772 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:165 Resp: 44814

Ion	Ratio	Lower	Upper
165	100		
63	37.5	31.4	47.2
89	65.6	53.3	79.9
182	2.8	2.3	3.5



Instrument :
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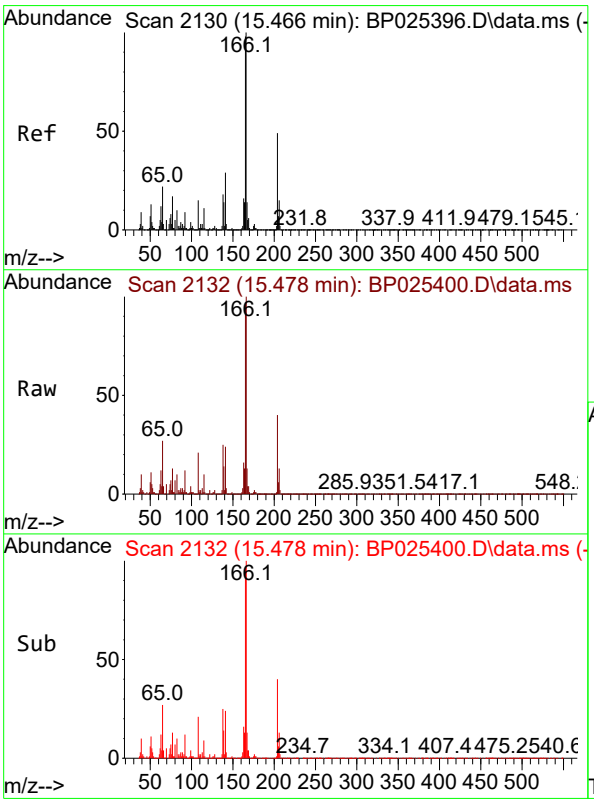
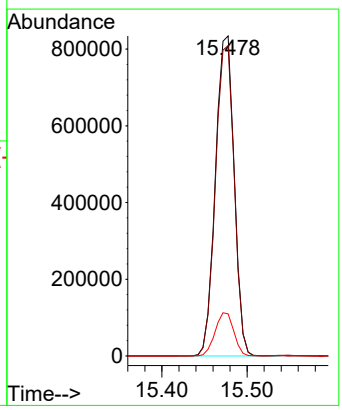
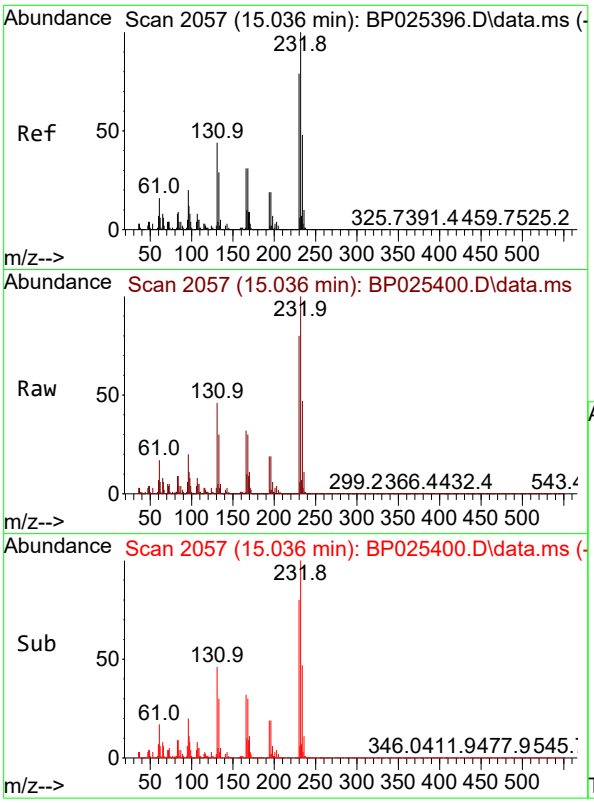


#58
Fluorene
Concen: 36.992 ng
RT: 15.478 min Scan# 2132
Delta R.T. 0.012 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:166 Resp: 1275341

Ion	Ratio	Lower	Upper
166	100		
165	97.0	78.8	118.2
167	13.2	11.0	16.4

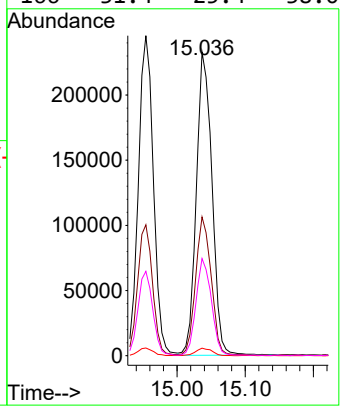




#59
2,3,4,6-Tetrachlorophenol
Concen: 39.147 ng
RT: 15.036 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:232 Resp: 37171

Ion	Ratio	Lower	Upper
232	100		
131	45.3	37.0	55.6
130	2.6	1.9	2.9
166	31.4	25.4	38.0



Instrument :
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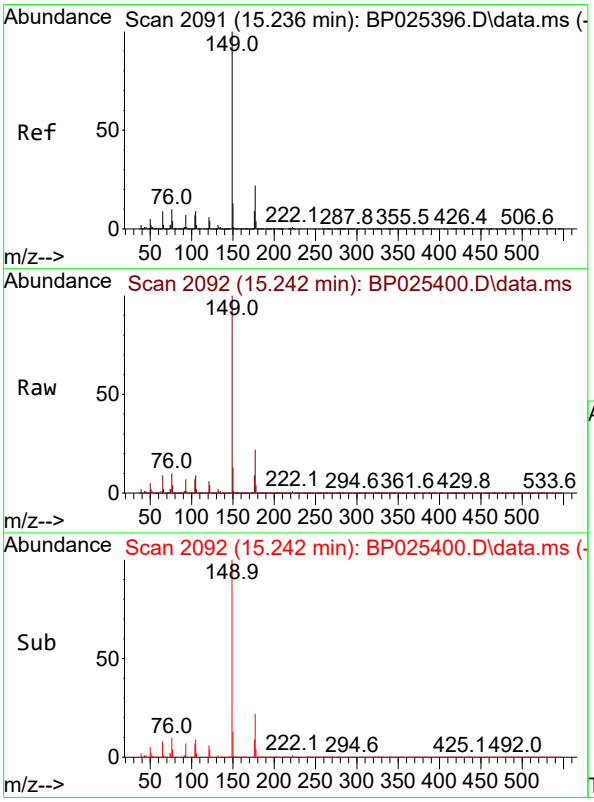
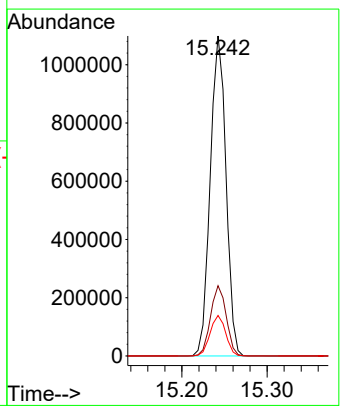
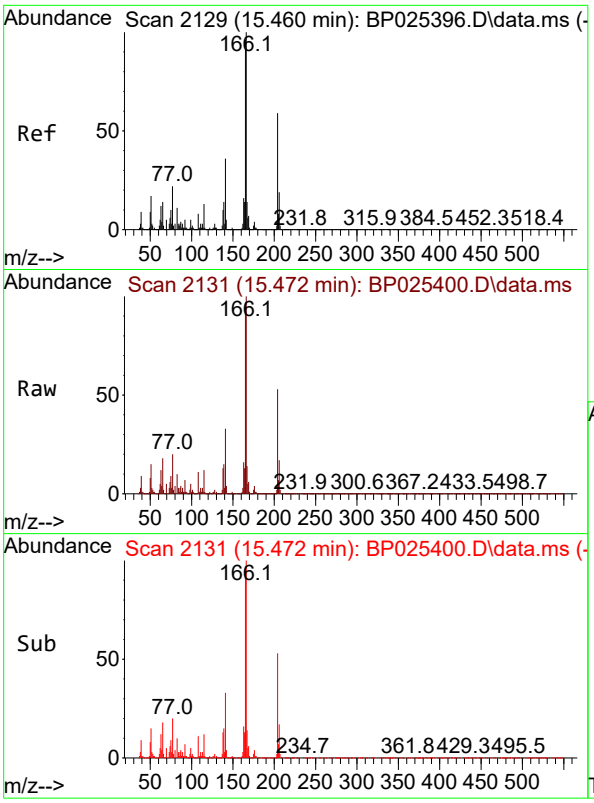


#60
Diethylphthalate
Concen: 37.810 ng
RT: 15.242 min Scan# 2092
Delta R.T. 0.006 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:149 Resp: 1415787

Ion	Ratio	Lower	Upper
149	100		
177	22.0	17.3	25.9
150	12.7	10.3	15.5

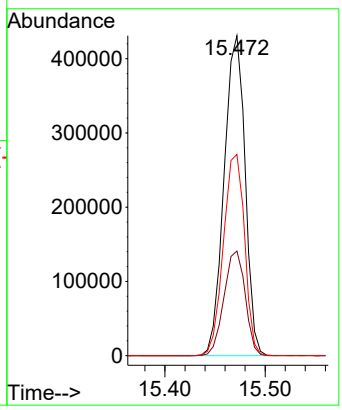




#61
4-Chlorophenyl-phenylether
Concen: 36.596 ng
RT: 15.472 min Scan# 2
Delta R.T. 0.012 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:204 Resp: 62747

Ion	Ratio	Lower	Upper
204	100		
206	32.7	25.8	38.8
141	62.9	49.4	74.2



Instrument :
BNA_P
ClientSampleId :
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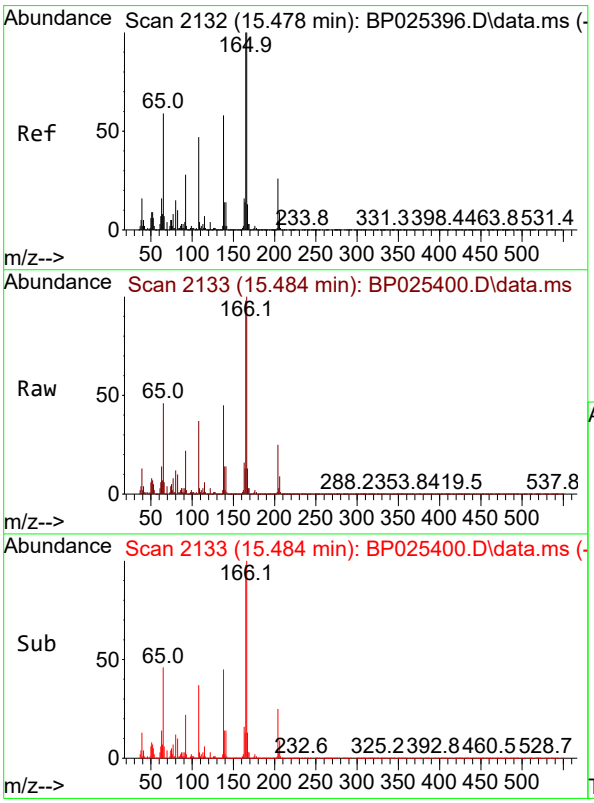
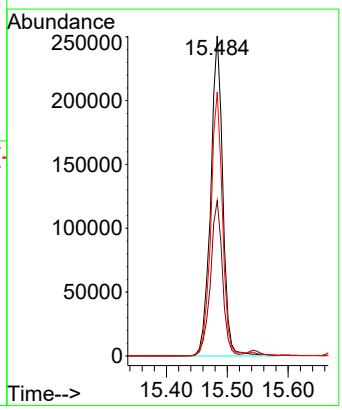
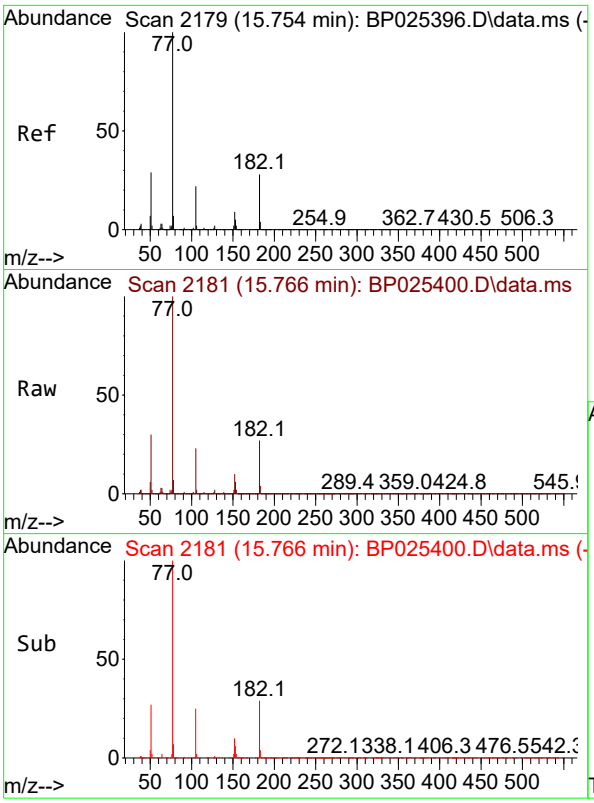


#62
4-Nitroaniline
Concen: 38.717 ng
RT: 15.484 min Scan# 2133
Delta R.T. 0.006 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:138 Resp: 346865

Ion	Ratio	Lower	Upper
138	100		
92	48.5	29.1	69.1
108	82.4	61.5	101.5

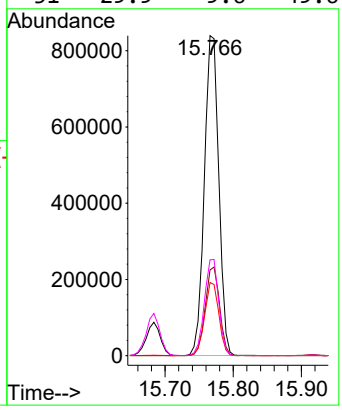




#63
Azobenzene
Concen: 38.526 ng
RT: 15.766 min Scan# 2
Delta R.T. 0.012 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion: 77 Resp: 123524

Ion	Ratio	Lower	Upper
77	100		
182	26.8	7.5	47.5
105	22.8	2.1	42.1
51	29.9	9.6	49.6



Instrument :
BNA_P
ClientSampleId :
ICVBP081425

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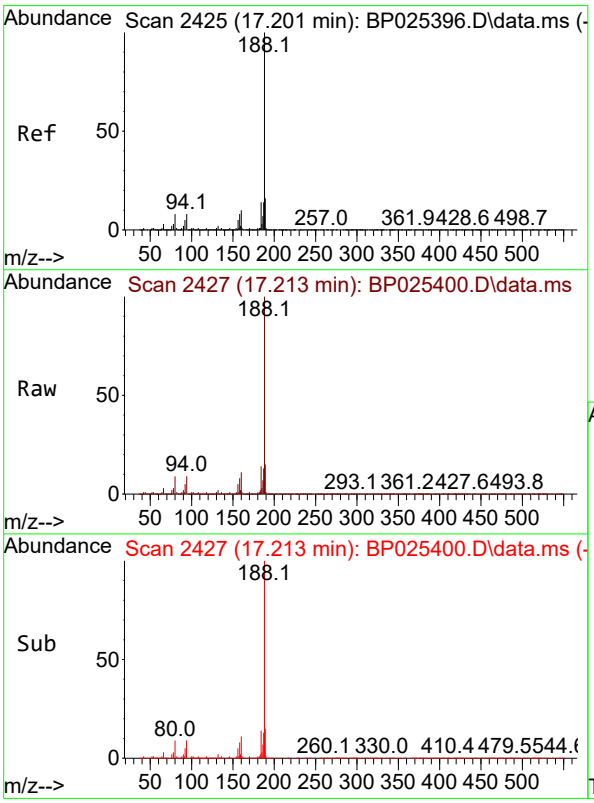
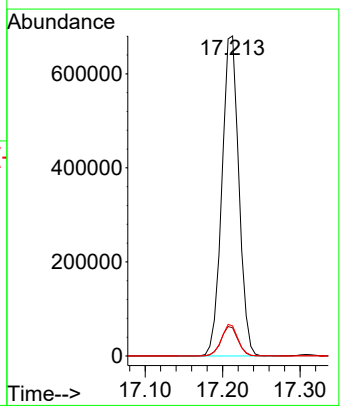
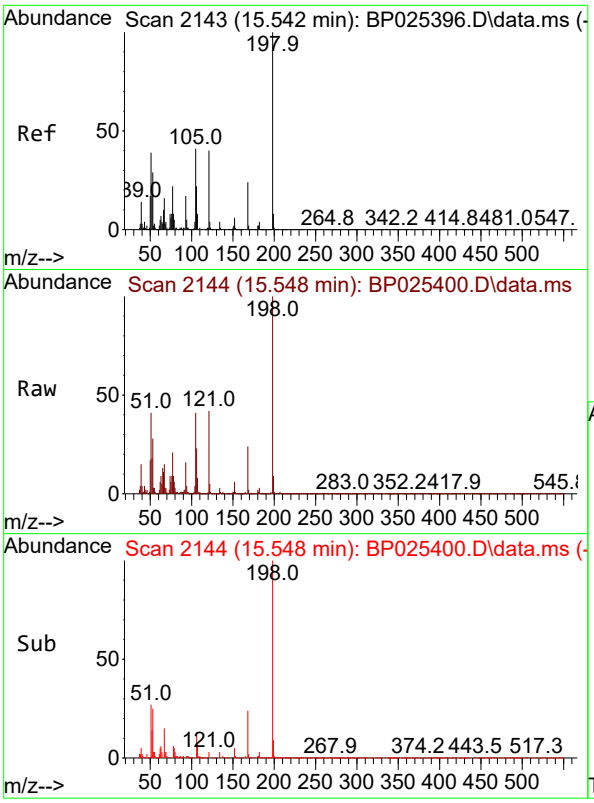


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.213 min Scan# 2427
Delta R.T. 0.012 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:188 Resp: 1034378

Ion	Ratio	Lower	Upper
188	100		
94	8.8	6.6	10.0
80	9.4	6.7	10.1

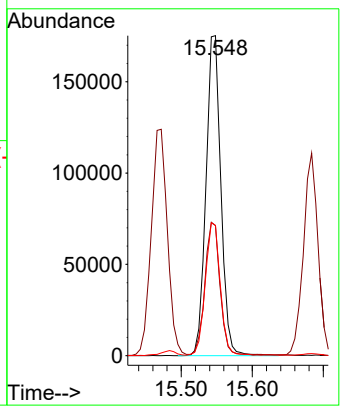




#65
4,6-Dinitro-2-methylphenol
Concen: 39.721 ng
RT: 15.548 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:198 Resp: 25611

Ion	Ratio	Lower	Upper
198	100		
51	40.6	19.6	59.6
105	40.7	20.9	60.9



Instrument :
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ClientSampleId :
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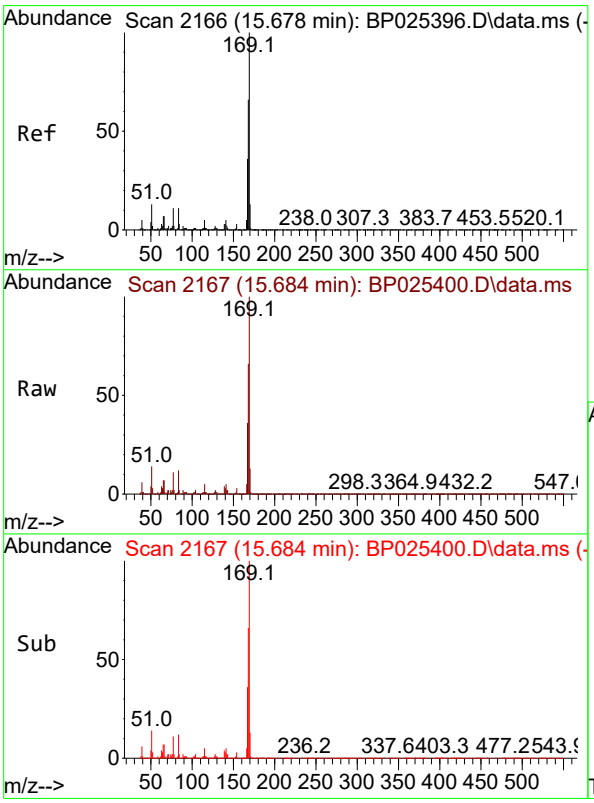
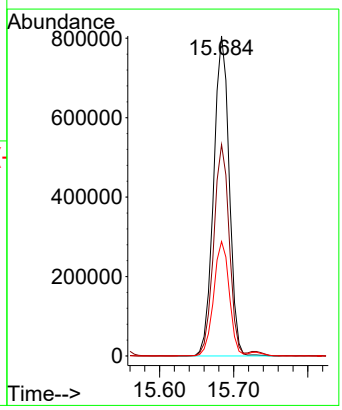
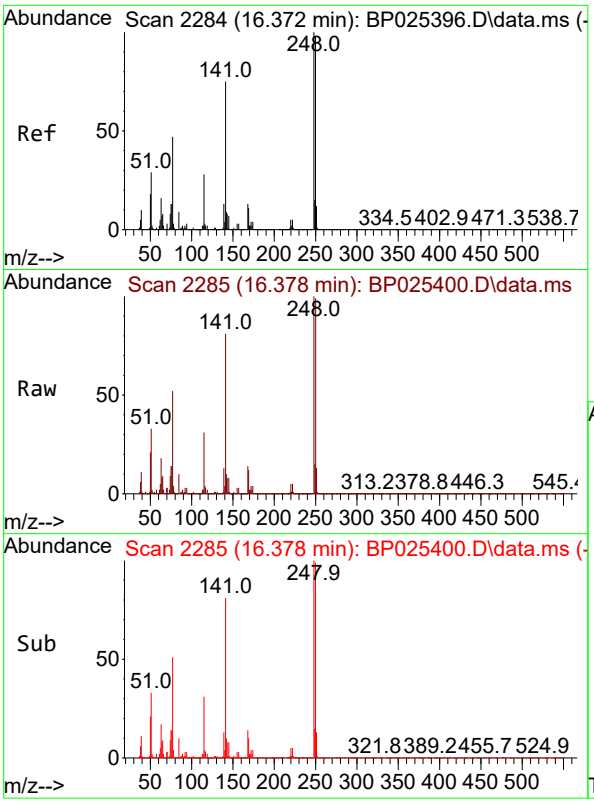


#66
n-Nitrosodiphenylamine
Concen: 37.227 ng
RT: 15.684 min Scan# 2167
Delta R.T. 0.006 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:169 Resp: 1174244

Ion	Ratio	Lower	Upper
169	100		
168	66.0	53.2	79.8
167	35.7	28.7	43.1





#67
4-Bromophenyl-phenylether
Concen: 37.101 ng
RT: 16.378 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:248 Resp: 42207

Ion	Ratio	Lower	Upper
248	100		
250	99.4	78.2	117.2
141	81.1	59.6	89.4

Instrument :
BNA_P
ClientSampleId :
ICVBP081425

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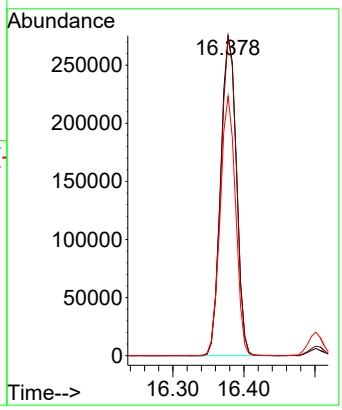
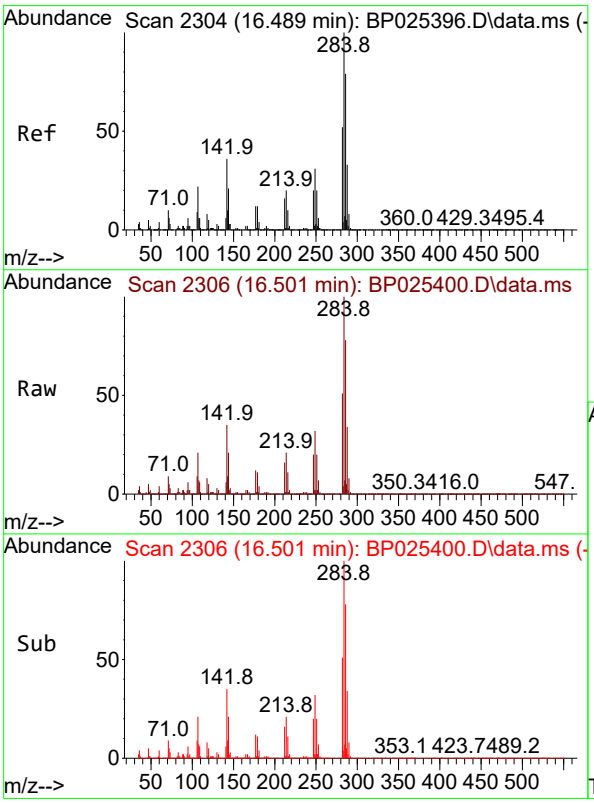
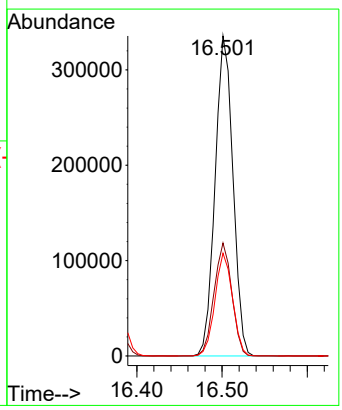


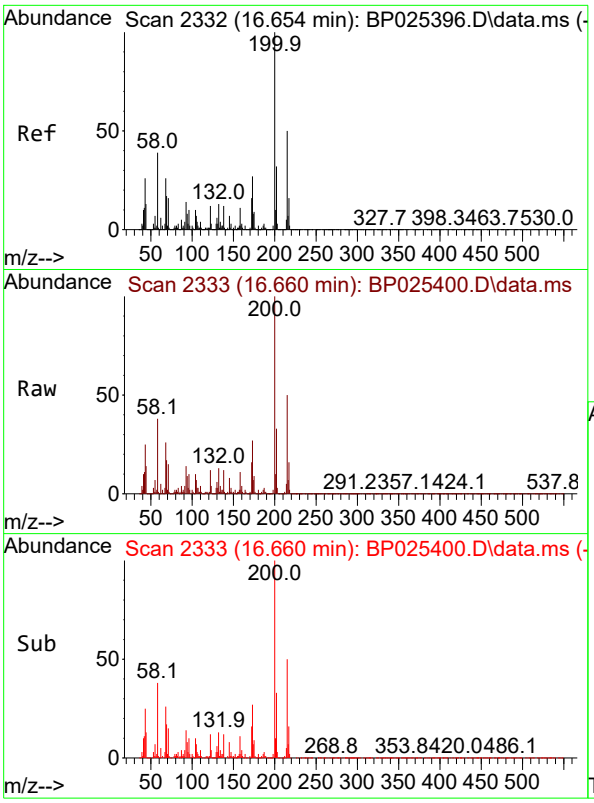


#68
Hexachlorobenzene
Concen: 37.062 ng
RT: 16.501 min Scan# 2306
Delta R.T. 0.012 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:284 Resp: 488749

Ion	Ratio	Lower	Upper
284	100		
142	35.3	29.1	43.7
249	32.1	25.0	37.4





#69
Atrazine
Concen: 38.057 ng
RT: 16.660 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:200 Resp: 44955

Ion	Ratio	Lower	Upper
200	100		
173	26.7	6.7	46.7
215	49.7	29.7	69.7

Instrument :
BNA_P
ClientSampleId :
ICVBP081425

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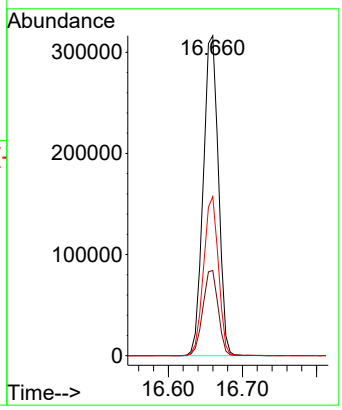
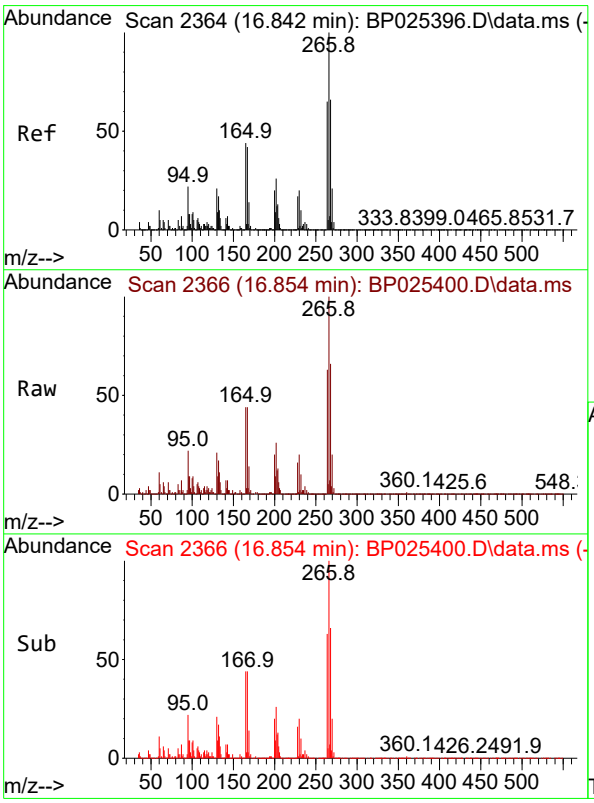
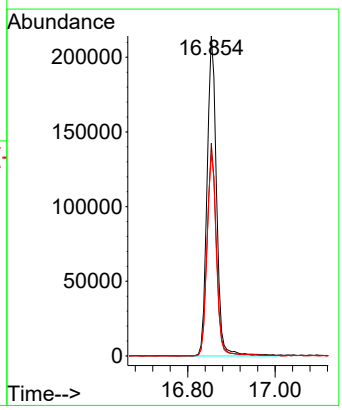


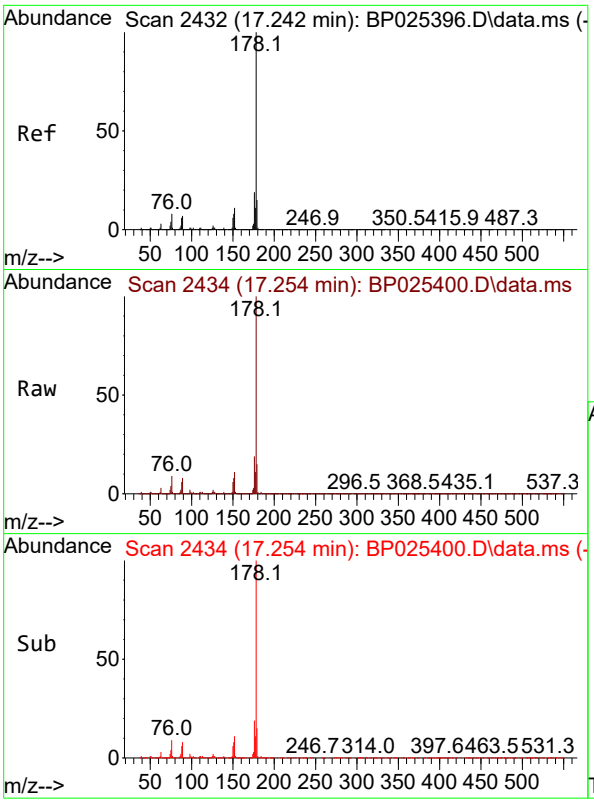


#70
Pentachlorophenol
Concen: 38.733 ng
RT: 16.854 min Scan# 2366
Delta R.T. 0.012 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:266 Resp: 322435

Ion	Ratio	Lower	Upper
266	100		
268	66.4	52.6	79.0
264	63.2	52.0	78.0

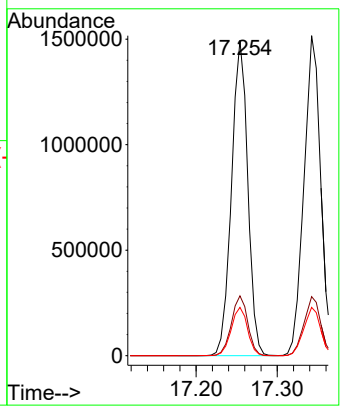




#71
Phenanthrene
Concen: 36.445 ng
RT: 17.254 min Scan# 24
Delta R.T. 0.012 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:178 Resp: 207087

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.5	23.3
179	15.3	12.2	18.4



Instrument :
BNA_P
ClientSampleId :
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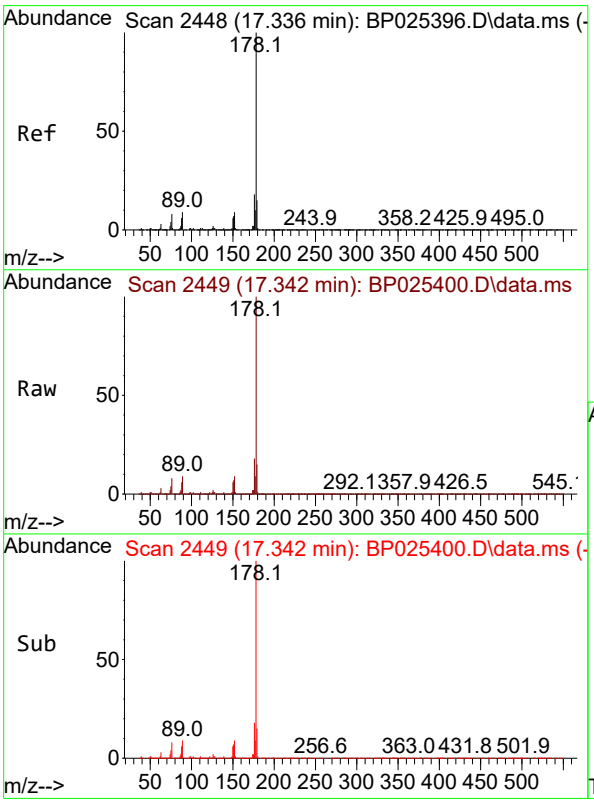
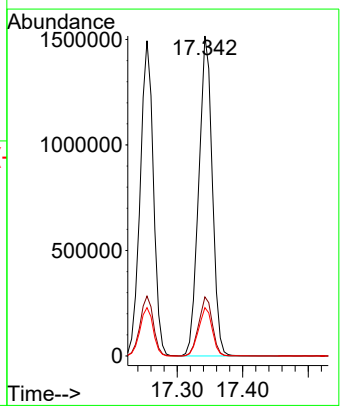
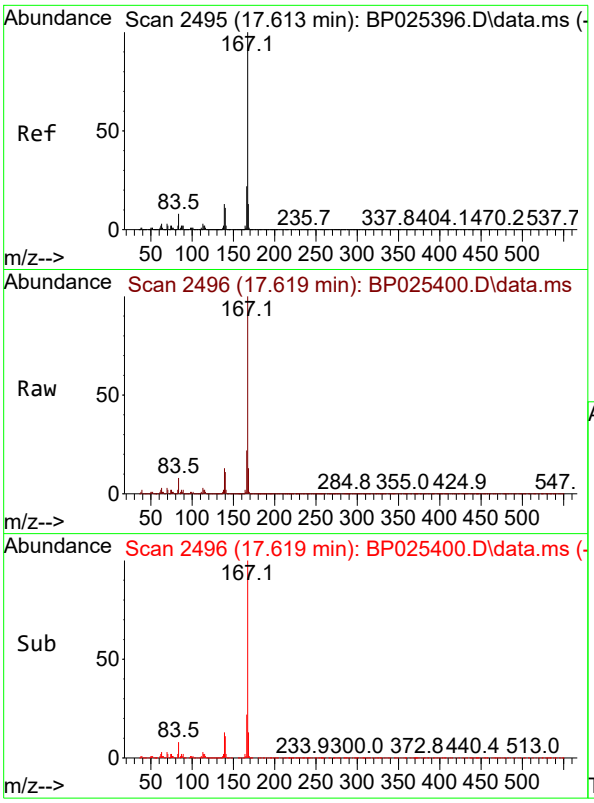


#72
Anthracene
Concen: 37.563 ng
RT: 17.342 min Scan# 2449
Delta R.T. 0.006 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:178 Resp: 2179669

Ion	Ratio	Lower	Upper
178	100		
176	18.5	14.7	22.1
179	15.1	12.2	18.2

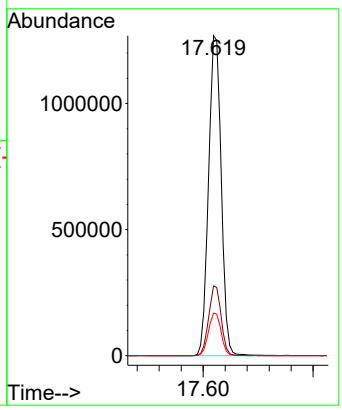




#73
Carbazole
Concen: 37.116 ng
RT: 17.619 min Scan# 24
Delta R.T. 0.006 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:167 Resp: 202859

Ion	Ratio	Lower	Upper
167	100		
166	21.8	17.5	26.3
139	13.3	10.6	16.0



Instrument :
BNA_P
ClientSampleId :
ICVBP081425

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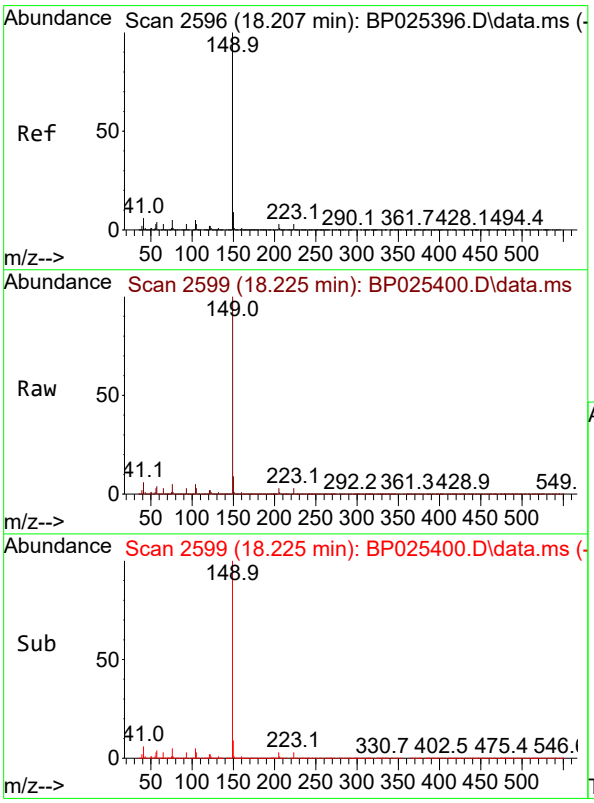
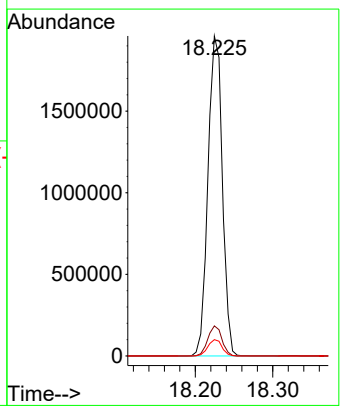
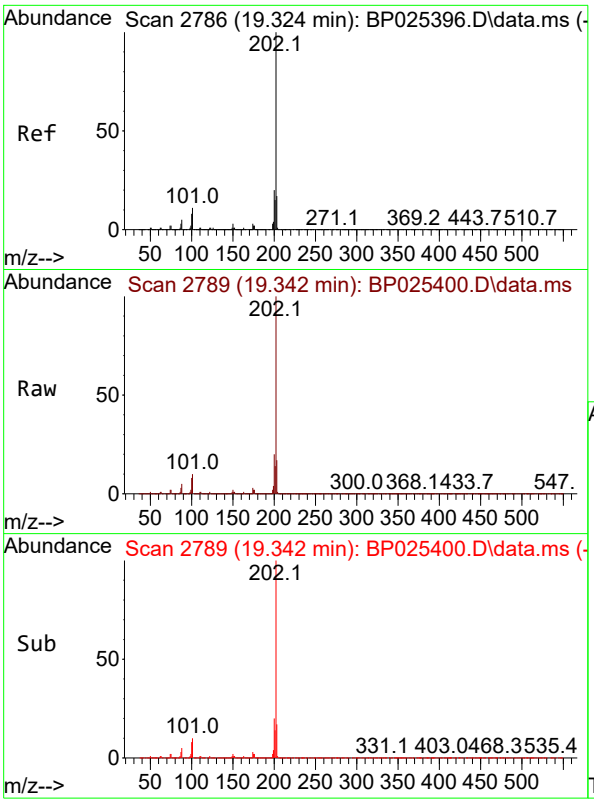


#74
Di-n-butylphthalate
Concen: 37.602 ng
RT: 18.225 min Scan# 2599
Delta R.T. 0.018 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:149 Resp: 2528547

Ion	Ratio	Lower	Upper
149	100		
150	9.4	7.4	11.0
104	5.1	4.2	6.2

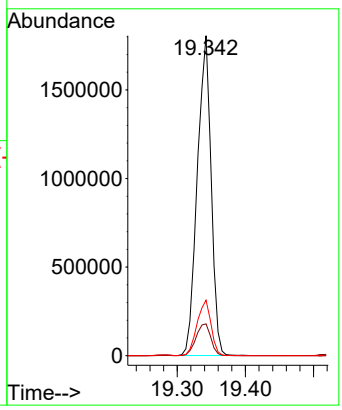




#75
Fluoranthene
Concen: 37.481 ng
RT: 19.342 min Scan# 2
Delta R.T. 0.018 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:202 Resp: 254041

Ion	Ratio	Lower	Upper
202	100		
101	9.9	0.0	31.1
203	17.4	0.0	37.3



Instrument :
BNA_P
ClientSampleId :
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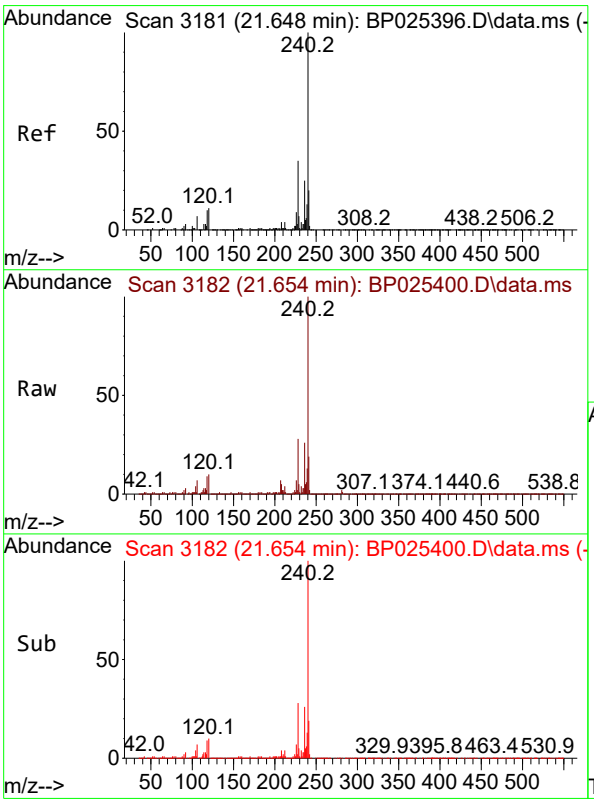
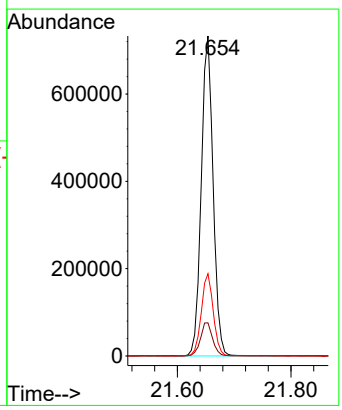
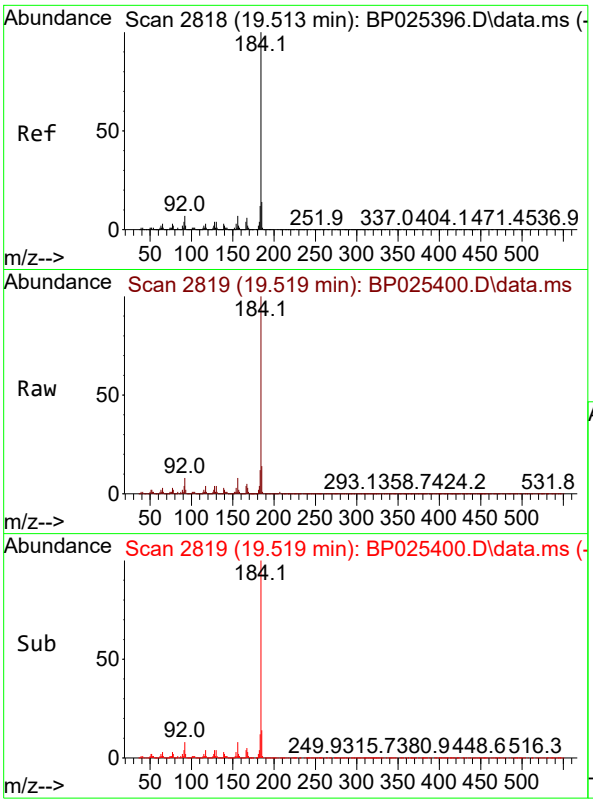


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.654 min Scan# 3182
Delta R.T. 0.006 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:240 Resp: 1060337

Ion	Ratio	Lower	Upper
240	100		
120	10.3	8.9	13.3
236	25.7	19.8	29.8

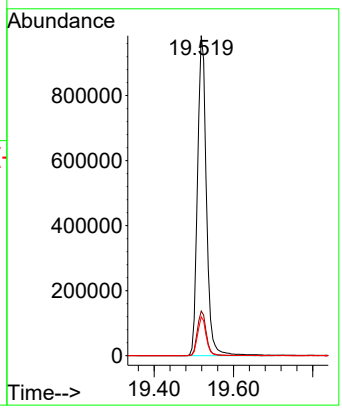




#77
Benzidine
Concen: 42.271 ng
RT: 19.519 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:184 Resp: 152965

Ion	Ratio	Lower	Upper
184	100		
185	13.9	11.5	17.3
183	12.1	9.4	14.2



Instrument :
BNA_P
ClientSampleId :
ICVBP081425

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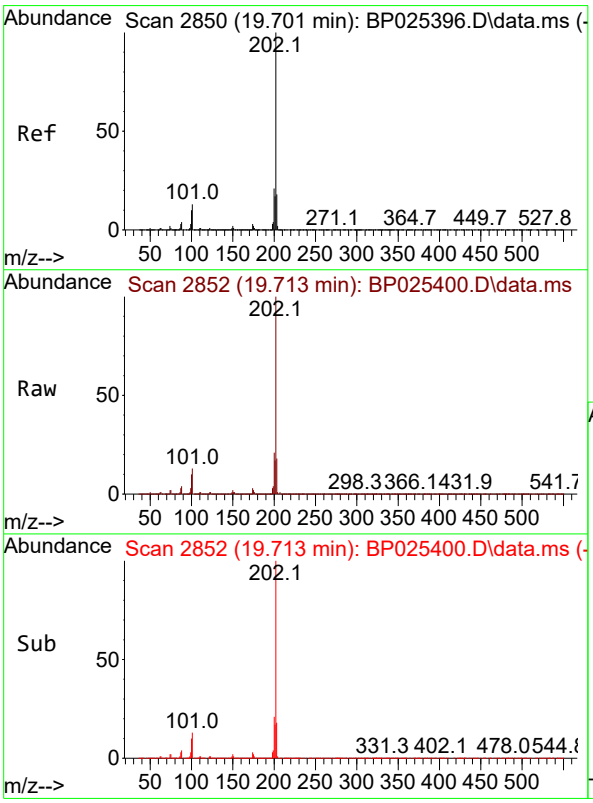
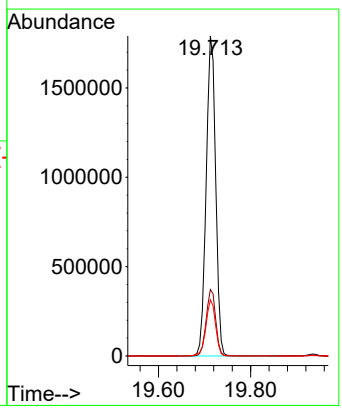
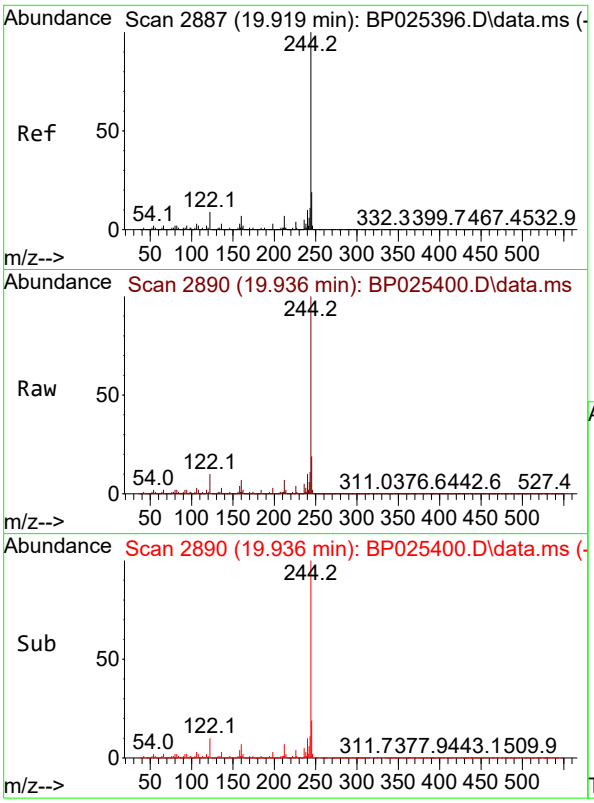


#78
Pyrene
Concen: 37.404 ng
RT: 19.713 min Scan# 2852
Delta R.T. 0.012 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:202 Resp: 2577810

Ion	Ratio	Lower	Upper
202	100		
200	20.8	16.9	25.3
203	17.5	14.2	21.2

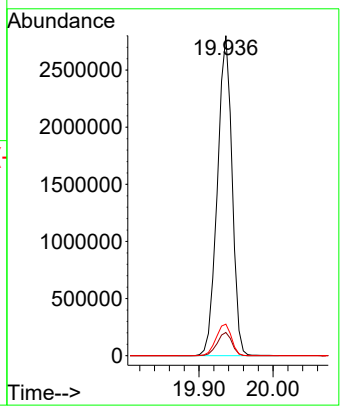




#79
Terphenyl-d14
Concen: 66.399 ng
RT: 19.936 min Scan# 2
Delta R.T. 0.018 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:244 Resp: 384816

Ion	Ratio	Lower	Upper
244	100		
212	7.2	5.8	8.6
122	9.9	7.4	11.2



Instrument :
BNA_P
ClientSampleId :
ICVBP081425

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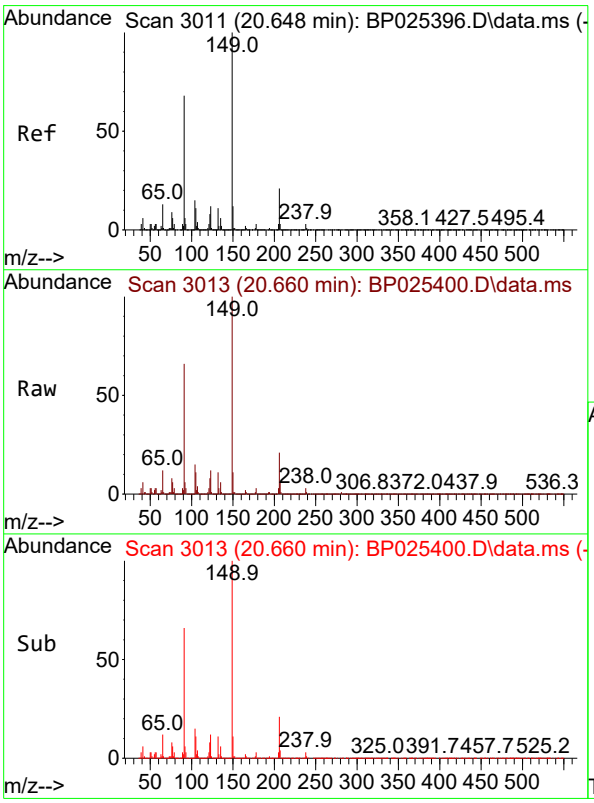
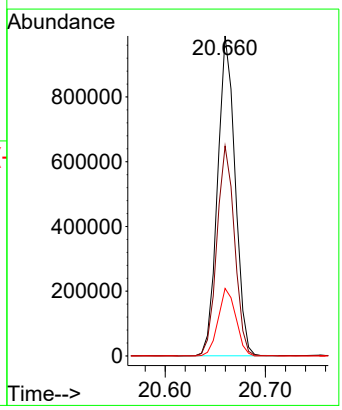
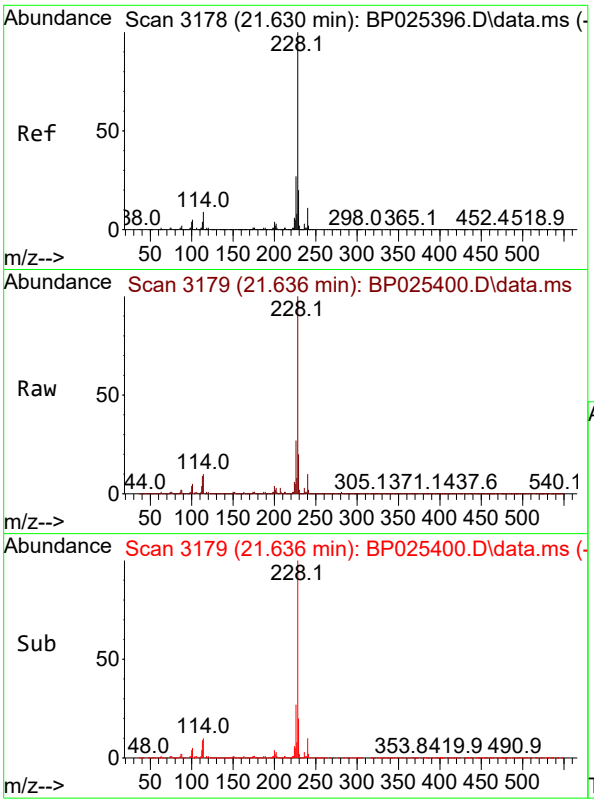


#80
Butylbenzylphthalate
Concen: 38.401 ng
RT: 20.660 min Scan# 3013
Delta R.T. 0.012 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:149 Resp: 1199445

Ion	Ratio	Lower	Upper
149	100		
91	65.6	54.2	81.2
206	21.1	16.6	24.8

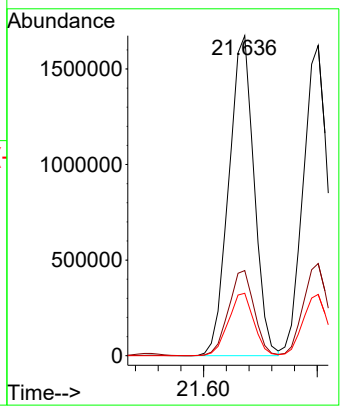




#81
Benzo(a)anthracene
Concen: 36.950 ng
RT: 21.636 min Scan# 3
Delta R.T. 0.006 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:228 Resp: 258386

Ion	Ratio	Lower	Upper
228	100		
226	26.6	21.7	32.5
229	19.5	15.6	23.4



Instrument :
BNA_P
ClientSampleId :
ICVBP081425

Manual Integrations
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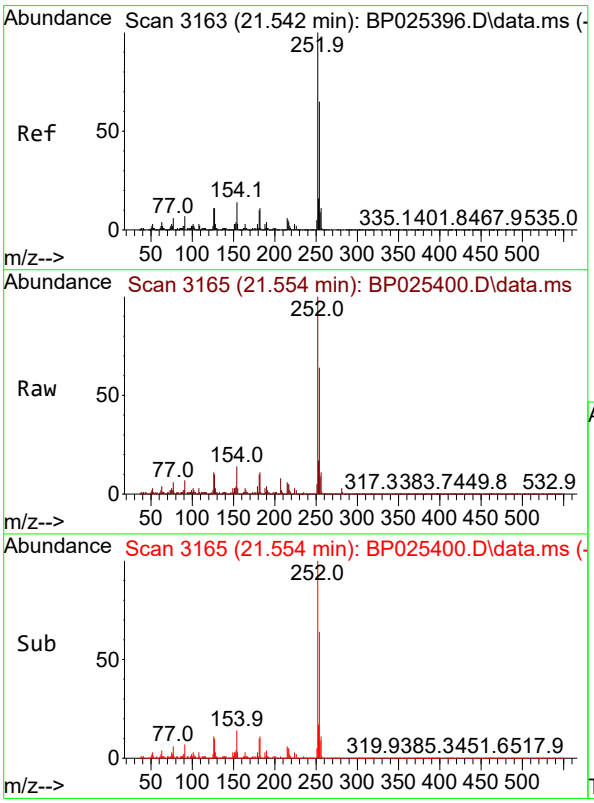
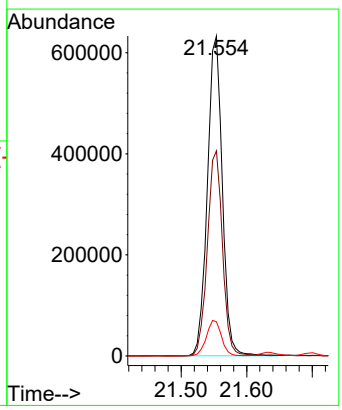
Reviewed By :Rahul Chavli 08/15/2025
Supervised By :Jagrut Upadhyay 08/15/2025

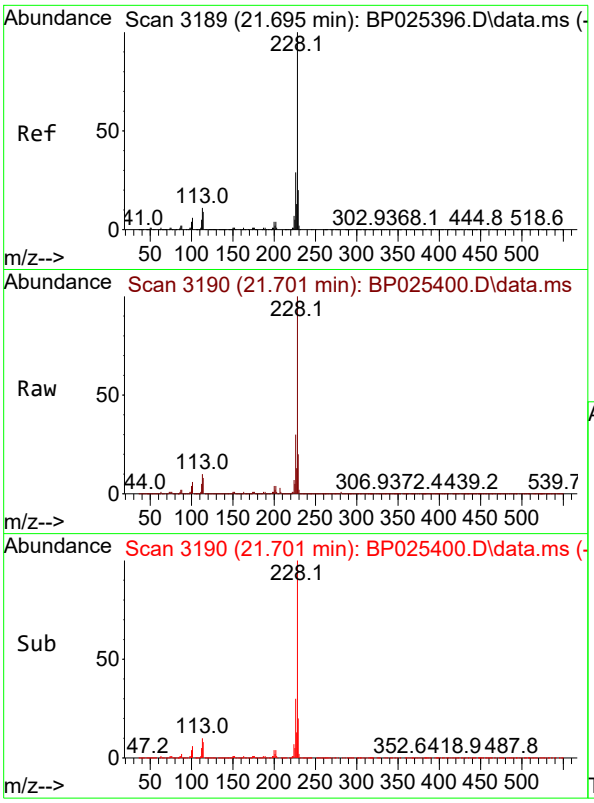


#82
3,3'-Dichlorobenzidine
Concen: 38.038 ng
RT: 21.554 min Scan# 3165
Delta R.T. 0.012 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:252 Resp: 1002597

Ion	Ratio	Lower	Upper
252	100		
254	64.1	51.8	77.6
126	10.7	9.1	13.7





#83
Chrysene
Concen: 37.353 ng
RT: 21.701 min Scan# 3
Delta R.T. 0.006 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

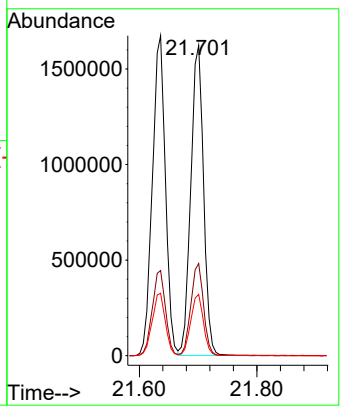
Tgt Ion:228 Resp: 244619

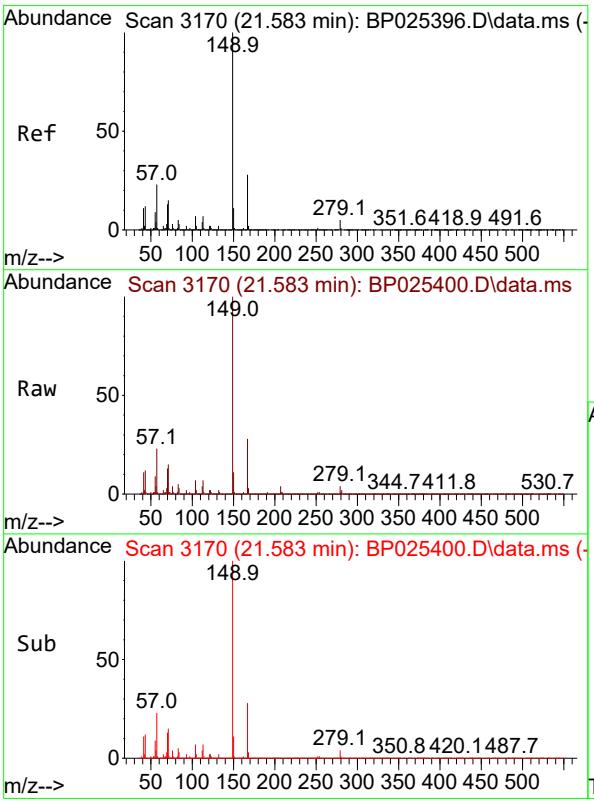
Ion	Ratio	Lower	Upper
228	100		
226	29.7	23.2	34.8
229	19.7	15.6	23.4

Instrument :
BNA_P
ClientSampleId :
ICVBP081425

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 08/15/2025
Supervised By :Jagrut Upadhyay 08/15/2025

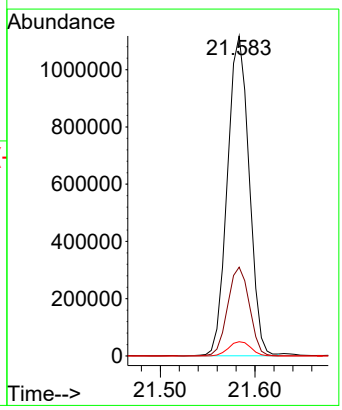


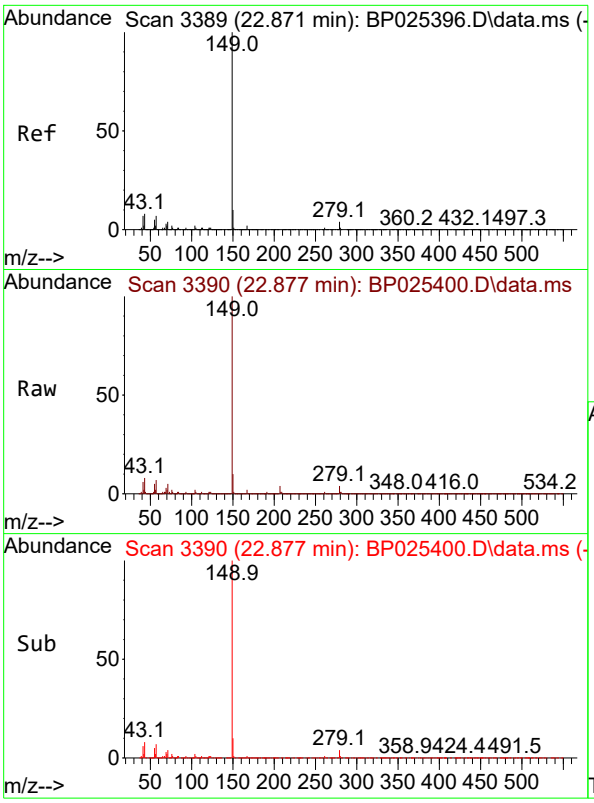


#84
Bis(2-ethylhexyl)phthalate
Concen: 38.729 ng
RT: 21.583 min Scan# 3170
Delta R.T. 0.000 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:149 Resp: 1780746

Ion	Ratio	Lower	Upper
149	100		
167	27.8	22.1	33.1
279	4.5	3.8	5.6





#85
Di-n-octyl phthalate
Concen: 37.915 ng
RT: 22.877 min Scan# 3
Delta R.T. 0.006 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

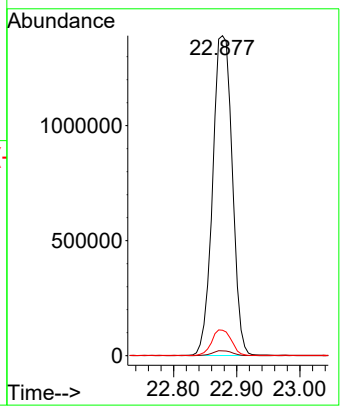
Tgt Ion:149 Resp: 299852

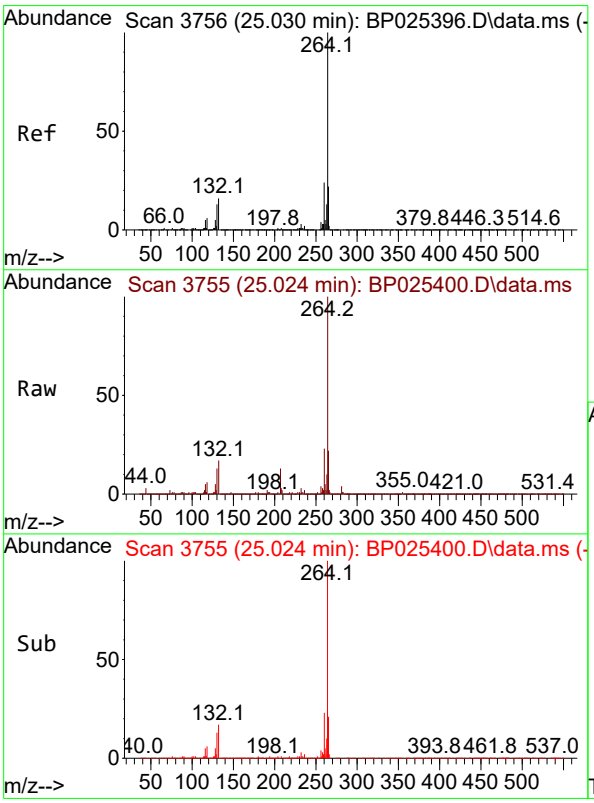
Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	8.0	6.3	9.5

Instrument :
BNA_P
ClientSampleId :
ICVBP081425

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 08/15/2025
Supervised By :Jagrut Upadhyay 08/15/2025

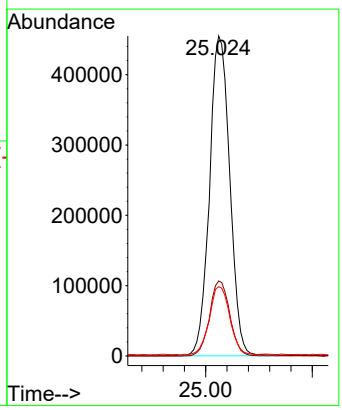


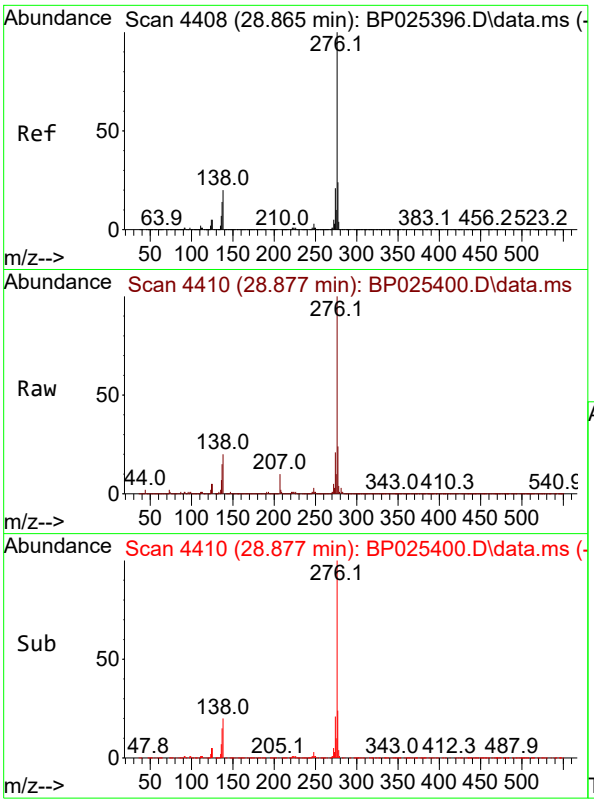


#86
Perylene-d12
Concen: 20.000 ng
RT: 25.024 min Scan# 3755
Delta R.T. -0.006 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:264 Resp: 1200519

Ion	Ratio	Lower	Upper
264	100		
260	23.4	19.3	28.9
265	21.6	17.4	26.0

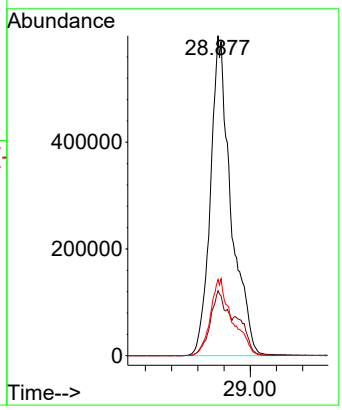




#87
Indeno(1,2,3-cd)pyrene
Concen: 37.119 ng
RT: 28.877 min Scan# 4
Delta R.T. 0.012 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:276 Resp: 326796

Ion	Ratio	Lower	Upper
276	100		
138	17.0	12.9	19.3
277	25.5	17.0	25.6



Instrument :
BNA_P
ClientSampleId :
ICVBP081425

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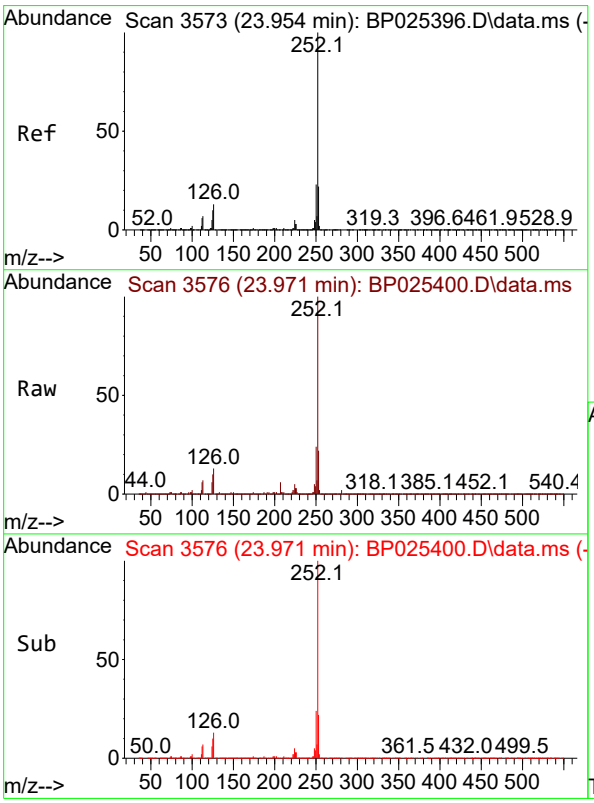
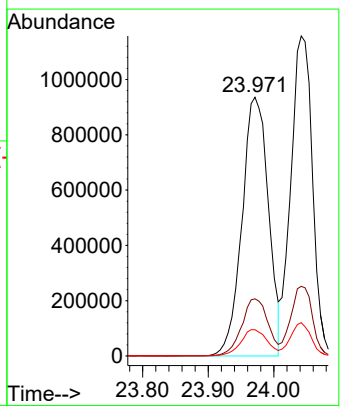
Reviewed By :Rahul Chavli 08/15/2025
Supervised By :Jagrut Upadhyay 08/15/2025

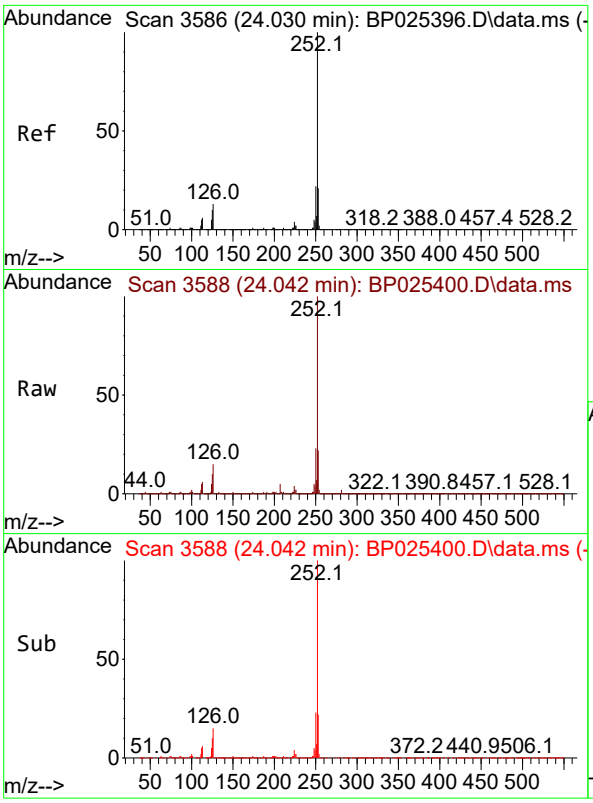


#88
Benzo(b)fluoranthene
Concen: 36.964 ng
RT: 23.971 min Scan# 3576
Delta R.T. 0.018 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:252 Resp: 2616701

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.7	26.5
125	10.2	7.9	11.9





#89
Benzo(k)fluoranthene
Concen: 37.464 ng
RT: 24.042 min Scan# 3
Delta R.T. 0.012 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

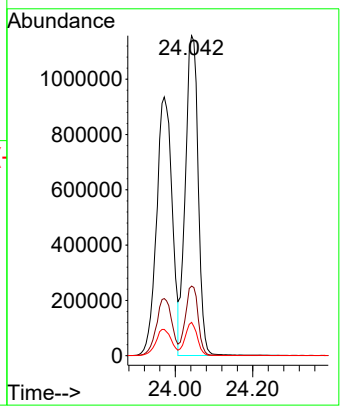
Tgt Ion:252 Resp: 265390

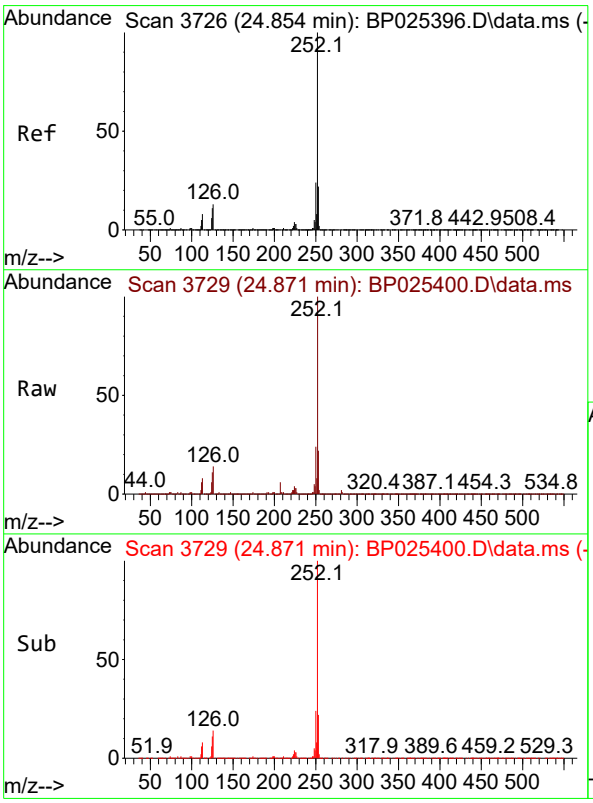
Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.1	25.7
125	10.4	7.8	11.6

Instrument :
BNA_P
ClientSampleId :
ICVBP081425

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 08/15/2025
Supervised By :Jagrut Upadhyay 08/15/2025

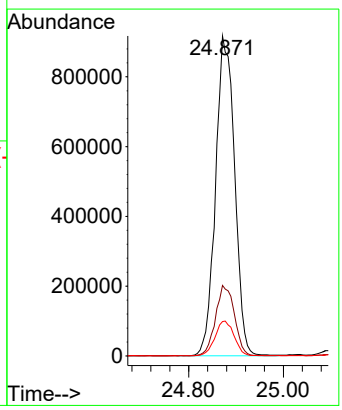


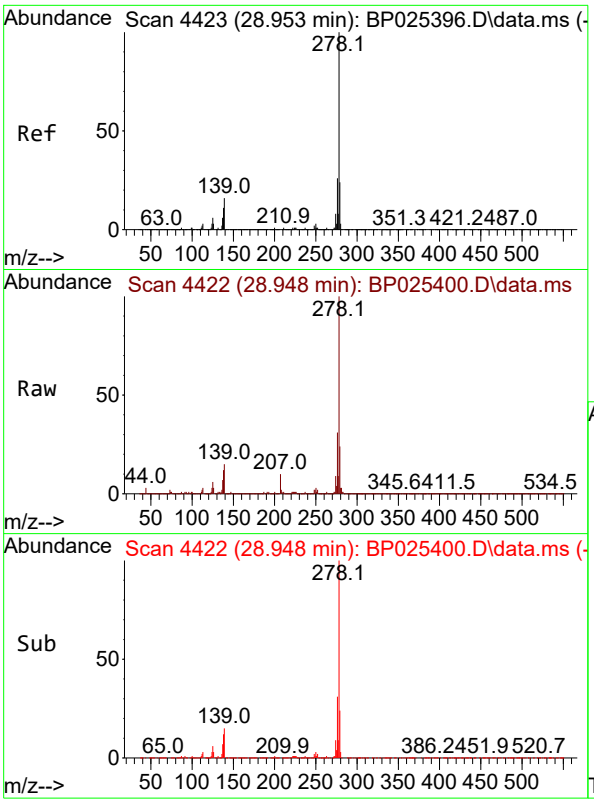


#90
Benzo(a)pyrene
Concen: 37.160 ng
RT: 24.871 min Scan# 3729
Delta R.T. 0.018 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:252 Resp: 2560692

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.5	26.3
125	10.7	8.7	13.1

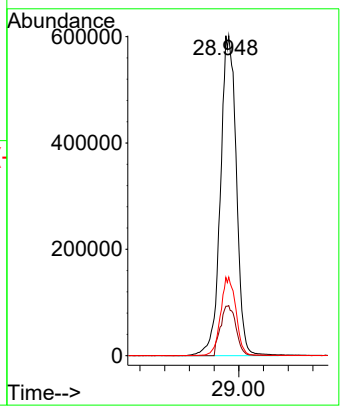




#91
Dibenzo(a,h)anthracene
Concen: 37.490 ng
RT: 28.948 min Scan# 4
Delta R.T. -0.006 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:278 Resp: 269733

Ion	Ratio	Lower	Upper
278	100		
139	15.4	13.0	19.4
279	24.4	19.4	29.2



Instrument :
BNA_P
ClientSampleId :
ICVBP081425

Manual Integrations
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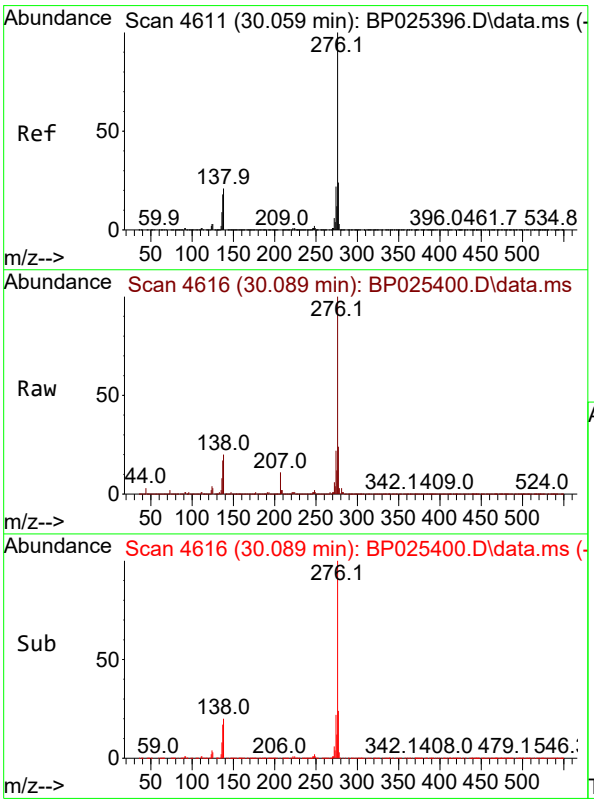
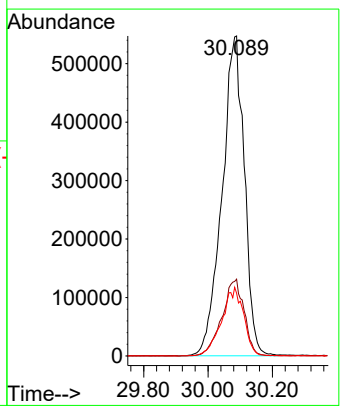
Reviewed By :Rahul Chavli 08/15/2025
Supervised By :Jagrut Upadhyay 08/15/2025



#92
Benzo(g,h,i)perylene
Concen: 37.216 ng
RT: 30.089 min Scan# 4616
Delta R.T. 0.029 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:276 Resp: 2632085

Ion	Ratio	Lower	Upper
276	100		
277	24.0	19.4	29.0
138	19.6	16.7	25.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081425\
Data File : BP025400.D
Acq On : 14 Aug 2025 18:05
Operator : CG/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
ICVBP081425

Quant Time: Aug 14 18:24:25 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 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	110	0.00
2		1,4-Dioxane	0.472	0.399	15.5	99	0.00
3		Pyridine	1.291	1.159	10.2	105	0.00
4		n-Nitrosodimethylamine	0.532	0.507	4.7	109	0.00
5	S	2-Fluorophenol	1.204	1.045	13.2	99	0.00
6		Aniline	2.080	1.984	4.6	108	0.00
7	S	Phenol-d6	1.544	1.383	10.4	101	0.00
8		2-Chlorophenol	1.359	1.308	3.8	110	0.00
9		Benzaldehyde	1.082	0.923	14.7	75	0.00
10	C	Phenol	1.620	1.555	4.0	109	0.00
11		bis(2-Chloroethyl)ether	1.263	1.211	4.1	109	0.00
12		1,3-Dichlorobenzene	1.499	1.414	5.7	108	0.00
13	C	1,4-Dichlorobenzene	1.532	1.451	5.3	109	0.00
14		1,2-Dichlorobenzene	1.483	1.402	5.5	108	0.00
15		Benzyl Alcohol	1.227	1.197	2.4	111	0.00
16		2,2'-oxybis(1-Chloropropane	1.692	1.619	4.3	110	0.00
17		2-Methylphenol	1.125	1.094	2.8	109	0.00
18		Hexachloroethane	0.563	0.536	4.8	109	0.00
19	P	n-Nitroso-di-n-propylamine	1.023	0.979	4.3	109	0.00
20		3+4-Methylphenols	1.560	1.506	3.5	109	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	113	0.00
22		Acetophenone	0.502	0.479	4.6	112	0.00
23	S	Nitrobenzene-d5	0.395	0.328	17.0	97	0.00
24		Nitrobenzene	0.353	0.330	6.5	108	0.00
25		Isophorone	0.700	0.662	5.4	111	0.00
26	C	2-Nitrophenol	0.181	0.176	2.8	110	0.00
27		2,4-Dimethylphenol	0.312	0.303	2.9	111	0.00
28		bis(2-Chloroethoxy)methane	0.423	0.400	5.4	111	0.00
29	C	2,4-Dichlorophenol	0.310	0.299	3.5	111	0.00
30		1,2,4-Trichlorobenzene	0.340	0.316	7.1	109	0.00
31		Naphthalene	1.040	0.973	6.4	110	0.00
32		Benzoic acid	0.230	0.220	4.3	110	0.01
33		4-Chloroaniline	0.459	0.437	4.8	109	0.00
34	C	Hexachlorobutadiene	0.211	0.196	7.1	108	0.00
35		Caprolactam	0.114	0.109	4.4	112	0.00
36	C	4-Chloro-3-methylphenol	0.355	0.345	2.8	113	0.00
37		2-Methylnaphthalene	0.676	0.640	5.3	111	0.00
38		1-Methylnaphthalene	0.719	0.675	6.1	111	0.00
39	I	Acenaphthene-d10	1.000	1.000	0.0	114	0.00
40		1,2,4,5-Tetrachlorobenzene	0.578	0.547	5.4	111	0.00
41	P	Hexachlorocyclopentadiene	0.349	0.350	-0.3	115	0.00
42	S	2,4,6-Tribromophenol	0.269	0.241	10.4	105	0.00
43	C	2,4,6-Trichlorophenol	0.390	0.380	2.6	113	0.00
44		2,4,5-Trichlorophenol	0.427	0.418	2.1	112	0.00
45	S	2-Fluorobiphenyl	1.463	1.208	17.4	99	0.00
46		1,1'-Biphenyl	1.453	1.368	5.8	111	0.00
47		2-Chloronaphthalene	1.131	1.065	5.8	110	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081425\
Data File : BP025400.D
Acq On : 14 Aug 2025 18:05
Operator : CG/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
ICVBP081425

Quant Time: Aug 14 18:24:25 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 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	0.329	0.322	2.1	111	0.00
49		Acenaphthylene	1.871	1.764	5.7	111	0.00
50		Dimethylphthalate	1.465	1.398	4.6	114	0.00
51		2,6-Dinitrotoluene	0.309	0.303	1.9	112	0.00
52	C	Acenaphthene	1.098	1.011	7.9	111	0.00
53		3-Nitroaniline	0.347	0.348	-0.3	116	0.00
54	P	2,4-Dinitrophenol	0.165	0.172	-4.2	120	0.00
55		Dibenzofuran	1.736	1.620	6.7	110	0.00
56	P	4-Nitrophenol	0.285	0.283	0.7	115	0.00
57		2,4-Dinitrotoluene	0.440	0.445	-1.1	116	0.00
58		Fluorene	1.370	1.267	7.5	111	0.01
59		2,3,4,6-Tetrachlorophenol	0.377	0.369	2.1	115	0.00
60		Diethylphthalate	1.488	1.407	5.4	112	0.00
61		4-Chlorophenyl-phenylether	0.681	0.623	8.5	109	0.01
62		4-Nitroaniline	0.356	0.345	3.1	112	0.00
63		Azobenzene	1.274	1.227	3.7	113	0.01
64	I	Phenanthrene-d10	1.000	1.000	0.0	117	0.01
65		4,6-Dinitro-2-methylphenol	0.125	0.124	0.8	118	0.00
66	c	n-Nitrosodiphenylamine	0.610	0.568	6.9	112	0.00
67		4-Bromophenyl-phenylether	0.220	0.204	7.3	112	0.00
68		Hexachlorobenzene	0.255	0.236	7.5	114	0.01
69		Atrazine	0.228	0.217	4.8	116	0.00
70	C	Pentachlorophenol	0.161	0.156	3.1	116	0.01
71		Phenanthrene	1.099	1.001	8.9	113	0.01
72		Anthracene	1.122	1.054	6.1	114	0.00
73		Carbazole	1.057	0.981	7.2	114	0.00
74		Di-n-butylphthalate	1.300	1.222	6.0	115	0.02
75	C	Fluoranthene	1.311	1.228	6.3	117	0.02
76	I	Chrysene-d12	1.000	1.000	0.0	118	0.00
77		Benzidine	0.683	0.721	-5.6	88	0.00
78		Pyrene	1.300	1.216	6.5	113	0.01
79	S	Terphenyl-d14	1.093	0.907	17.0	102	0.02
80		Butylbenzylphthalate	0.589	0.566	3.9	115	0.01
81		Benzo(a)anthracene	1.319	1.218	7.7	113	0.00
82		3,3'-Dichlorobenzidine	0.497	0.473	4.8	114	0.01
83		Chrysene	1.235	1.153	6.6	115	0.00
84		Bis(2-ethylhexyl)phthalate	0.867	0.840	3.1	119	0.00
85	c	Di-n-octyl phthalate	1.492	1.414	5.2	115	0.00
86	I	Perylene-d12	1.000	1.000	0.0	117	0.00
87		Indeno(1,2,3-cd)pyrene	1.467	1.361	7.2	113	0.01
88		Benzo(b)fluoranthene	1.179	1.090	7.5	113	0.02
89		Benzo(k)fluoranthene	1.180	1.105	6.4	115	0.01
90	C	Benzo(a)pyrene	1.148	1.066	7.1	113	0.02
91		Dibenzo(a,h)anthracene	1.199	1.123	6.3	114	0.00
92		Benzo(g,h,i)perylene	1.178	1.096	7.0	113	0.03

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081425\
Data File : BP025400.D
Acq On : 14 Aug 2025 18:05
Operator : CG/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
ICVBP081425

Quant Time: Aug 14 18:24:25 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration

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

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081425\
Data File : BP025400.D
Acq On : 14 Aug 2025 18:05
Operator : CG/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
ICVBP081425

Quant Time: Aug 14 18:24:25 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 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	110	0.00
2		1,4-Dioxane	40.000	33.792	15.5	99	0.00
3		Pyridine	40.000	35.901	10.2	105	0.00
4		n-Nitrosodimethylamine	40.000	38.115	4.7	109	0.00
5	S	2-Fluorophenol	80.000	69.430	13.2	99	0.00
6		Aniline	40.000	38.147	4.6	108	0.00
7	S	Phenol-d6	80.000	71.663	10.4	101	0.00
8		2-Chlorophenol	40.000	38.501	3.7	110	0.00
9		Benzaldehyde	40.000	34.142	14.6	75	0.00
10	C	Phenol	40.000	38.388	4.0	109	0.00
11		bis(2-Chloroethyl)ether	40.000	38.348	4.1	109	0.00
12		1,3-Dichlorobenzene	40.000	37.738	5.7	108	0.00
13	C	1,4-Dichlorobenzene	40.000	37.890	5.3	109	0.00
14		1,2-Dichlorobenzene	40.000	37.818	5.5	108	0.00
15		Benzyl Alcohol	40.000	39.025	2.4	111	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	38.271	4.3	110	0.00
17		2-Methylphenol	40.000	38.877	2.8	109	0.00
18		Hexachloroethane	40.000	38.103	4.7	109	0.00
19	P	n-Nitroso-di-n-propylamine	40.000	38.270	4.3	109	0.00
20		3+4-Methylphenols	40.000	38.620	3.5	109	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	113	0.00
22		Acetophenone	40.000	38.216	4.5	112	0.00
23	S	Nitrobenzene-d5	80.000	66.391	17.0	97	0.00
24		Nitrobenzene	40.000	37.313	6.7	108	0.00
25		Isophorone	40.000	37.855	5.4	111	0.00
26	C	2-Nitrophenol	40.000	38.722	3.2	110	0.00
27		2,4-Dimethylphenol	40.000	38.910	2.7	111	0.00
28		bis(2-Chloroethoxy)methane	40.000	37.816	5.5	111	0.00
29	C	2,4-Dichlorophenol	40.000	38.649	3.4	111	0.00
30		1,2,4-Trichlorobenzene	40.000	37.231	6.9	109	0.00
31		Naphthalene	40.000	37.431	6.4	110	0.00
32		Benzoic acid	40.000	38.242	4.4	110	0.01
33		4-Chloroaniline	40.000	38.043	4.9	109	0.00
34	C	Hexachlorobutadiene	40.000	37.031	7.4	108	0.00
35		Caprolactam	40.000	38.310	4.2	112	0.00
36	C	4-Chloro-3-methylphenol	40.000	38.789	3.0	113	0.00
37		2-Methylnaphthalene	40.000	37.845	5.4	111	0.00
38		1-Methylnaphthalene	40.000	37.539	6.2	111	0.00
39	I	Acenaphthene-d10	20.000	20.000	0.0	114	0.00
40		1,2,4,5-Tetrachlorobenzene	40.000	37.895	5.3	111	0.00
41	P	Hexachlorocyclopentadiene	40.000	40.074	-0.2	115	0.00
42	S	2,4,6-Tribromophenol	80.000	71.582	10.5	105	0.00
43	C	2,4,6-Trichlorophenol	40.000	38.972	2.6	113	0.00
44		2,4,5-Trichlorophenol	40.000	39.108	2.2	112	0.00
45	S	2-Fluorobiphenyl	80.000	66.016	17.5	99	0.00
46		1,1'-Biphenyl	40.000	37.672	5.8	111	0.00
47		2-Chloronaphthalene	40.000	37.682	5.8	110	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081425\
Data File : BP025400.D
Acq On : 14 Aug 2025 18:05
Operator : CG/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
ICVBP081425

Quant Time: Aug 14 18:24:25 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
48		2-Nitroaniline	40.000	39.081	2.3	111	0.00
49		Acenaphthylene	40.000	37.720	5.7	111	0.00
50		Dimethylphthalate	40.000	38.170	4.6	114	0.00
51		2,6-Dinitrotoluene	40.000	39.211	2.0	112	0.00
52	C	Acenaphthene	40.000	36.837	7.9	111	0.00
53		3-Nitroaniline	40.000	40.027	-0.1	116	0.00
54	P	2,4-Dinitrophenol	40.000	41.646	-4.1	120	0.00
55		Dibenzofuran	40.000	37.324	6.7	110	0.00
56	P	4-Nitrophenol	40.000	39.630	0.9	115	0.00
57		2,4-Dinitrotoluene	40.000	40.439	-1.1	116	0.00
58		Fluorene	40.000	36.992	7.5	111	0.01
59		2,3,4,6-Tetrachlorophenol	40.000	39.147	2.1	115	0.00
60		Diethylphthalate	40.000	37.810	5.5	112	0.00
61		4-Chlorophenyl-phenylether	40.000	36.596	8.5	109	0.01
62		4-Nitroaniline	40.000	38.717	3.2	112	0.00
63		Azobenzene	40.000	38.526	3.7	113	0.01
64	I	Phenanthrene-d10	20.000	20.000	0.0	117	0.01
65		4,6-Dinitro-2-methylphenol	40.000	39.721	0.7	118	0.00
66	c	n-Nitrosodiphenylamine	40.000	37.227	6.9	112	0.00
67		4-Bromophenyl-phenylether	40.000	37.101	7.2	112	0.00
68		Hexachlorobenzene	40.000	37.062	7.3	114	0.01
69		Atrazine	40.000	38.057	4.9	116	0.00
70	C	Pentachlorophenol	40.000	38.733	3.2	116	0.01
71		Phenanthrene	40.000	36.445	8.9	113	0.01
72		Anthracene	40.000	37.563	6.1	114	0.00
73		Carbazole	40.000	37.116	7.2	114	0.00
74		Di-n-butylphthalate	40.000	37.602	6.0	115	0.02
75	C	Fluoranthene	40.000	37.481	6.3	117	0.02
76	I	Chrysene-d12	20.000	20.000	0.0	118	0.00
77		Benzidine	40.000	42.271	-5.7	88	0.00
78		Pyrene	40.000	37.404	6.5	113	0.01
79	S	Terphenyl-d14	80.000	66.399	17.0	102	0.02
80		Butylbenzylphthalate	40.000	38.401	4.0	115	0.01
81		Benzo(a)anthracene	40.000	36.950	7.6	113	0.00
82		3,3'-Dichlorobenzidine	40.000	38.038	4.9	114	0.01
83		Chrysene	40.000	37.353	6.6	115	0.00
84		Bis(2-ethylhexyl)phthalate	40.000	38.729	3.2	119	0.00
85	c	Di-n-octyl phthalate	40.000	37.915	5.2	115	0.00
86	I	Perylene-d12	20.000	20.000	0.0	117	0.00
87		Indeno(1,2,3-cd)pyrene	40.000	37.119	7.2	113	0.01
88		Benzo(b)fluoranthene	40.000	36.964	7.6	113	0.02
89		Benzo(k)fluoranthene	40.000	37.464	6.3	115	0.01
90	C	Benzo(a)pyrene	40.000	37.160	7.1	113	0.02
91		Dibenzo(a,h)anthracene	40.000	37.490	6.3	114	0.00
92		Benzo(g,h,i)perylene	40.000	37.216	7.0	113	0.03

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081425\
Data File : BP025400.D
Acq On : 14 Aug 2025 18:05
Operator : CG/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
ICVBP081425

Quant Time: Aug 14 18:24:25 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration

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

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

(#) = Out of Range SPCC's out = 0 CCC's out = 0

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: FIRS02

Lab Code: ACE SDG No.: Q2819

Instrument ID: BNA_F Calibration Date/Time: 08/20/2025 22:05

Lab File ID: BF143498.D Init. Calib. Date(s): 08/20/2025 08/20/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:55 14:20

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.145	1.150		0.4	
Benzaldehyde	1.145	1.081		-5.6	
Phenol-d6	1.414	1.395		-1.3	
Phenol	1.629	1.649		1.2	20.0
bis(2-Chloroethyl)ether	1.217	1.211		-0.5	
2-Chlorophenol	1.265	1.270		0.4	
2-Methylphenol	1.015	1.021		0.6	
2,2-oxybis(1-Chloropropane)	1.947	1.949		0.1	
Acetophenone	0.432	0.424		-1.9	
3+4-Methylphenols	1.212	1.222		0.8	
n-Nitroso-di-n-propylamine	0.864	0.852	0.050	-1.4	
Nitrobenzene-d5	0.343	0.349		1.7	
Hexachloroethane	0.485	0.481		-0.8	
Nitrobenzene	0.353	0.362		2.5	
Isophorone	0.628	0.635		1.1	
2-Nitrophenol	0.173	0.181		4.6	20.0
2,4-Dimethylphenol	0.269	0.270		0.4	
bis(2-Chloroethoxy)methane	0.386	0.385		-0.3	
2,4-Dichlorophenol	0.288	0.290		0.7	20.0
Naphthalene	0.960	0.933		-2.8	
4-Chloroaniline	0.341	0.343		0.6	
Hexachlorobutadiene	0.193	0.192		-0.5	20.0
Caprolactam	0.069	0.078		13.0	
4-Chloro-3-methylphenol	0.288	0.293		1.7	20.0
2-Methylnaphthalene	0.641	0.630		-1.7	
Hexachlorocyclopentadiene	0.184	0.163	0.050	-11.4	
2,4,6-Trichlorophenol	0.352	0.356		1.1	20.0
2-Fluorobiphenyl	1.210	1.135		-6.2	
2,4,5-Trichlorophenol	0.385	0.377		-2.1	
1,1-Biphenyl	1.420	1.373		-3.3	
2-Chloronaphthalene	1.114	1.101		-1.2	
2-Nitroaniline	0.326	0.341		4.6	
Dimethylphthalate	1.205	1.228		1.9	
Acenaphthylene	1.595	1.574		-1.3	
2,6-Dinitrotoluene	0.250	0.262		4.8	
3-Nitroaniline	0.270	0.286		5.9	
Acenaphthene	1.083	1.061		-2.0	20.0
2,4-Dinitrophenol	0.115	0.099	0.050	-13.9	
4-Nitrophenol	0.161	0.174	0.050	8.1	

Form VII SV-1

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: Alliance Contract: FIRS02

Lab Code: ACE SDG No.: Q2819

Instrument ID: BNA_F Calibration Date/Time: 08/20/2025 22:05

Lab File ID: BF143498.D Init. Calib. Date(s): 08/20/2025 08/20/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:55 14:20

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.544	1.518		-1.7	
2,4-Dinitrotoluene	0.333	0.354		6.3	
Diethylphthalate	1.080	1.104		2.2	
4-Chlorophenyl-phenylether	0.594	0.578		-2.7	
Fluorene	1.188	1.156		-2.7	
4-Nitroaniline	0.248	0.268		8.1	
4,6-Dinitro-2-methylphenol	0.113	0.110		-2.7	
n-Nitrosodiphenylamine	0.644	0.627		-2.6	20.0
2,4,6-Tribromophenol	0.186	0.184		-1.1	
4-Bromophenyl-phenylether	0.239	0.237		-0.8	
Hexachlorobenzene	0.257	0.247		-3.9	
Atrazine	0.166	0.185		11.4	
Pentachlorophenol	0.118	0.119		0.8	20.0
Phenanthrene	1.071	1.039		-3.0	
Anthracene	1.085	1.059		-2.4	
Carbazole	0.889	0.887		-0.2	
Di-n-butylphthalate	0.829	0.911		9.9	
Fluoranthene	0.961	0.962		0.1	20.0
Pyrene	1.645	1.665		1.2	
Terphenyl-d14	1.146	1.151		0.4	
Butylbenzylphthalate	0.449	0.480		6.9	
3,3-Dichlorobenzidine	0.369	0.369		0.0	
Benzo(a)anthracene	1.288	1.254		-2.6	
Chrysene	1.157	1.176		1.6	
Bis(2-ethylhexyl)phthalate	0.685	0.667		-2.6	
Di-n-octyl phthalate	1.268	1.215		-4.2	20.0
Benzo(b)fluoranthene	1.112	1.107		-0.4	
Benzo(k)fluoranthene	1.064	1.049		-1.4	
Benzo(a)pyrene	1.032	1.033		0.1	20.0
Indeno(1,2,3-cd)pyrene	1.437	1.484		3.3	
Dibenzo(a,h)anthracene	1.151	1.194		3.7	
Benzo(g,h,i)perylene	1.145	1.178		2.9	
1,2,4,5-Tetrachlorobenzene	0.572	0.553		-3.3	
1,4-Dioxane	0.531	0.507		-4.5	20.0
2,3,4,6-Tetrachlorophenol	0.286	0.296		3.5	

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082025\
Data File : BF143498.D
Acq On : 20 Aug 2025 22:05
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Quant Time: Aug 21 06:37:22 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 21 06:12:21 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.928	152	138596	20.000	ng	0.00
21) Naphthalene-d8	8.210	136	522619	20.000	ng	0.00
39) Acenaphthene-d10	9.969	164	286971	20.000	ng	0.00
64) Phenanthrene-d10	11.451	188	448105	20.000	ng	0.00
76) Chrysene-d12	14.098	240	253253	20.000	ng	0.00
86) Perylene-d12	15.592	264	290056	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.557	112	637738	80.348	ng	0.00
7) Phenol-d6	6.563	99	773234	78.917	ng	-0.01
23) Nitrobenzene-d5	7.487	82	729626	81.469	ng	-0.01
42) 2,4,6-Tribromophenol	10.757	330	211727	79.261	ng	0.00
45) 2-Fluorobiphenyl	9.287	172	1303360	75.061	ng	0.00
79) Terphenyl-d14	13.033	244	1165752	80.326	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.740	88	140603	38.239	ng	98
3) Pyridine	3.516	79	375727	38.366	ng	98
4) n-Nitrosodimethylamine	3.463	42	178227	40.483	ng	96
6) Aniline	6.593	93	522533	39.899	ng	97
8) 2-Chlorophenol	6.716	128	352106	40.164	ng	100
9) Benzaldehyde	6.481	77	299609	37.769	ng	99
10) Phenol	6.581	94	457188	40.504	ng	96
11) bis(2-Chloroethyl)ether	6.657	93	335666	39.795	ng	100
12) 1,3-Dichlorobenzene	6.869	146	387151	39.304	ng	99
13) 1,4-Dichlorobenzene	6.945	146	392595	39.733	ng	99
14) 1,2-Dichlorobenzene	7.098	146	368248	39.364	ng	99
15) Benzyl Alcohol	7.069	79	295313	40.257	ng	98
16) 2,2'-oxybis(1-Chloropr...	7.198	45	540115	40.025	ng	98
17) 2-Methylphenol	7.181	107	283139	40.241	ng	97
18) Hexachloroethane	7.440	117	133370	39.700	ng	97
19) n-Nitroso-di-n-propyla...	7.340	70	236284	39.455	ng	99
20) 3+4-Methylphenols	7.334	107	338683	40.322	ng	99
22) Acetophenone	7.334	105	443559	39.285	ng	98
24) Nitrobenzene	7.510	77	377880	40.995	ng	100
25) Isophorone	7.745	82	663816	40.435	ng	100
26) 2-Nitrophenol	7.822	139	189065	41.873	ng	96
27) 2,4-Dimethylphenol	7.863	122	282610	40.152	ng	99
28) bis(2-Chloroethoxy)met...	7.951	93	402537	39.898	ng	99
29) 2,4-Dichlorophenol	8.069	162	303216	40.336	ng	98
30) 1,2,4-Trichlorobenzene	8.151	180	300881	38.930	ng	99
31) Naphthalene	8.234	128	975102	38.863	ng	100
32) Benzoic acid	7.981	122	142723	37.123	ng	99
33) 4-Chloroaniline	8.275	127	358457	40.252	ng	98
34) Hexachlorobutadiene	8.351	225	200566	39.776	ng	100
35) Caprolactam	8.651	113	81048	44.931	ng	94
36) 4-Chloro-3-methylphenol	8.763	107	306743	40.718	ng	99
37) 2-Methylnaphthalene	8.922	142	658303	39.283	ng	100
38) 1-Methylnaphthalene	9.022	142	632252	39.442	ng	100
40) 1,2,4,5-Tetrachloroben...	9.092	216	317550	38.686	ng	100
41) Hexachlorocyclopentadiene	9.081	237	93698	33.457	ng	99
43) 2,4,6-Trichlorophenol	9.204	196	204187	40.426	ng	100

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082025\
Data File : BF143498.D
Acq On : 20 Aug 2025 22:05
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Quant Time: Aug 21 06:37:22 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 21 06:12:21 2025
Response via : Initial Calibration

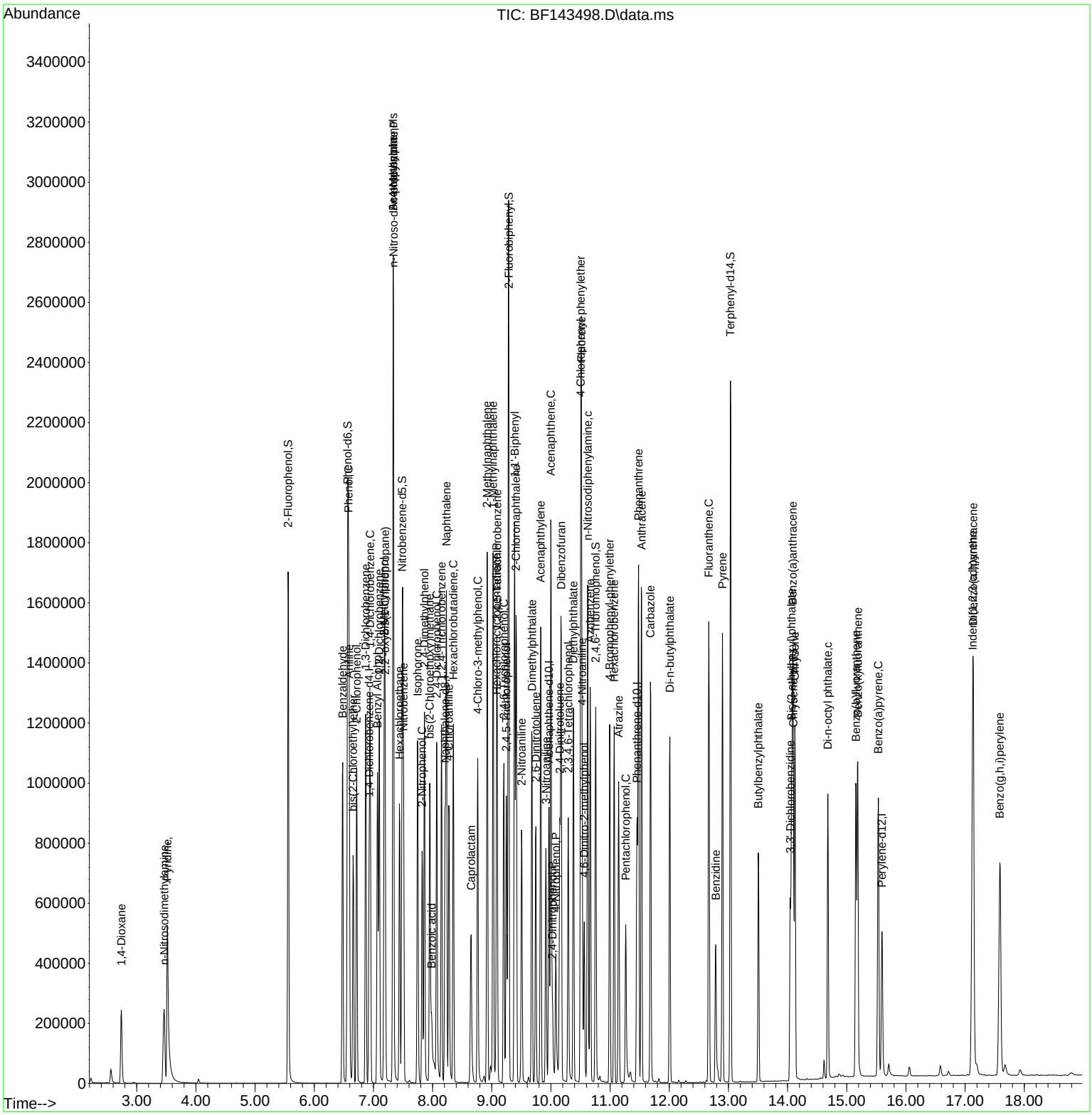
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.245	196	216241	39.194	ng	99
46) 1,1'-Biphenyl	9.386	154	788125	38.693	ng	100
47) 2-Chloronaphthalene	9.410	162	631796	39.533	ng	98
48) 2-Nitroaniline	9.504	65	195526	41.804	ng	99
49) Acenaphthylene	9.828	152	903587	39.486	ng	100
50) Dimethylphthalate	9.681	163	704558	40.765	ng	100
51) 2,6-Dinitrotoluene	9.745	165	150329	41.967	ng	99
52) Acenaphthene	9.998	154	609043	39.200	ng	100
53) 3-Nitroaniline	9.916	138	164001	42.370	ng	100
54) 2,4-Dinitrophenol	10.028	184	56727	32.946	ng	99
55) Dibenzofuran	10.175	168	871391	39.338	ng	99
56) 4-Nitrophenol	10.081	139	99803	43.335	ng	93
57) 2,4-Dinitrotoluene	10.151	165	203299	42.505	ng	98
58) Fluorene	10.516	166	663350	38.909	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.292	232	169934	41.458	ng	99
60) Diethylphthalate	10.381	149	633362	40.873	ng	99
61) 4-Chlorophenyl-phenyle...	10.504	204	331842	38.920	ng	99
62) 4-Nitroaniline	10.528	138	154077	43.337	ng	96
63) Azobenzene	10.663	77	653457	40.670	ng	99
65) 4,6-Dinitro-2-methylph...	10.563	198	98928	39.155	ng	99
66) n-Nitrosodiphenylamine	10.622	169	562277	38.990	ng	99
67) 4-Bromophenyl-phenylether	10.992	248	212441	39.734	ng	96
68) Hexachlorobenzene	11.069	284	221451	38.425	ng	98
69) Atrazine	11.145	200	166044	44.605	ng	99
70) Pentachlorophenol	11.263	266	107054	40.559	ng	100
71) Phenanthrene	11.480	178	931062	38.800	ng	100
72) Anthracene	11.533	178	949077	39.041	ng	100
73) Carbazole	11.680	167	795296	39.926	ng	99
74) Di-n-butylphthalate	12.010	149	816139	43.920	ng	99
75) Fluoranthene	12.669	202	862364	40.050	ng	100
77) Benzidine	12.786	184	284041	46.044	ng	99
78) Pyrene	12.898	202	843384	40.485	ng	100
80) Butylbenzylphthalate	13.504	149	242873	42.677	ng	97
81) Benzo(a)anthracene	14.086	228	635317	38.965	ng	99
82) 3,3'-Dichlorobenzidine	14.045	252	187129	40.076	ng	99
83) Chrysene	14.121	228	595706	40.656	ng	100
84) Bis(2-ethylhexyl)phtha...	14.069	149	337867	38.980	ng	99
85) Di-n-octyl phthalate	14.680	149	615416	38.327	ng	99
87) Indeno(1,2,3-cd)pyrene	17.127	276	861001	41.308	ng	100
88) Benzo(b)fluoranthene	15.157	252	642454	39.847	ng	100
89) Benzo(k)fluoranthene	15.186	252	608451	39.415	ng	99
90) Benzo(a)pyrene	15.533	252	599182	40.037	ng	99
91) Dibenzo(a,h)anthracene	17.139	278	692716	41.497	ng	99
92) Benzo(g,h,i)perylene	17.586	276	683631	41.185	ng	99

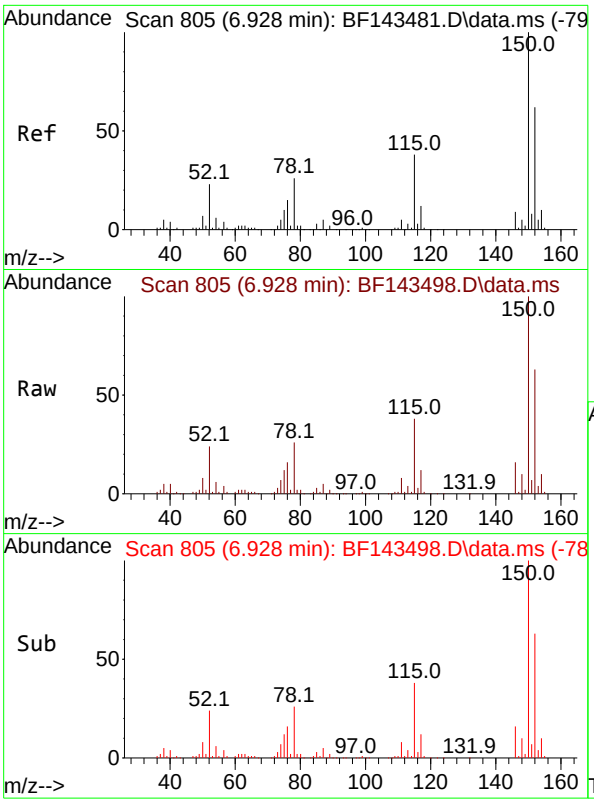
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082025\
Data File : BF143498.D
Acq On : 20 Aug 2025 22:05
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Quant Time: Aug 21 06:37:22 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 21 06:12:21 2025
Response via : Initial Calibration



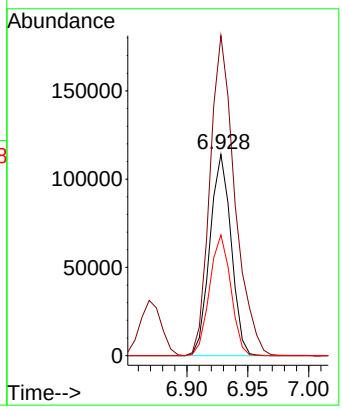


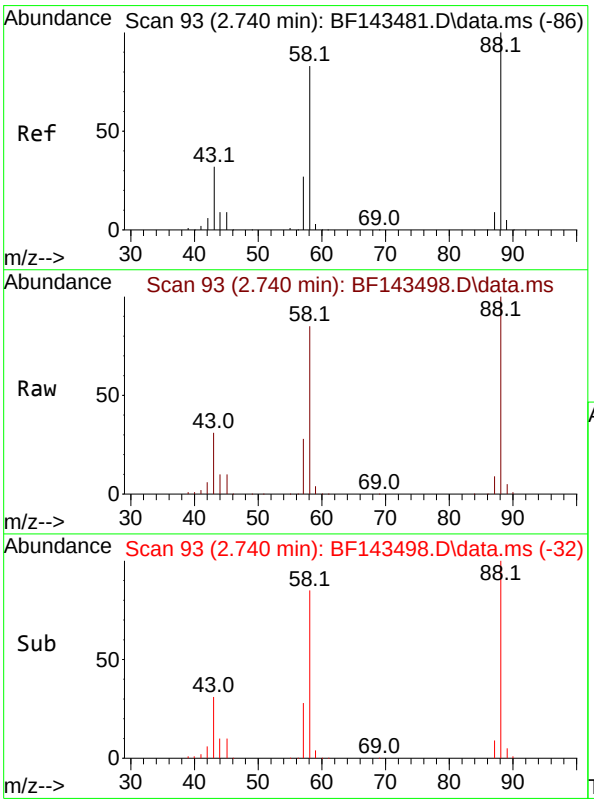
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.928 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:152 Resp: 138596

Ion	Ratio	Lower	Upper
152	100		
150	159.0	128.9	193.3
115	60.0	49.2	73.8

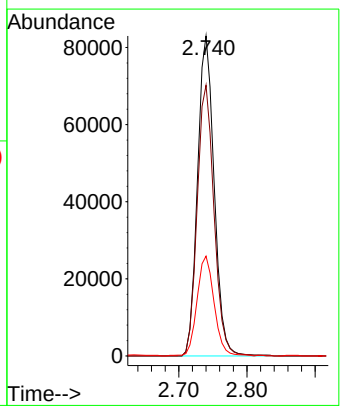


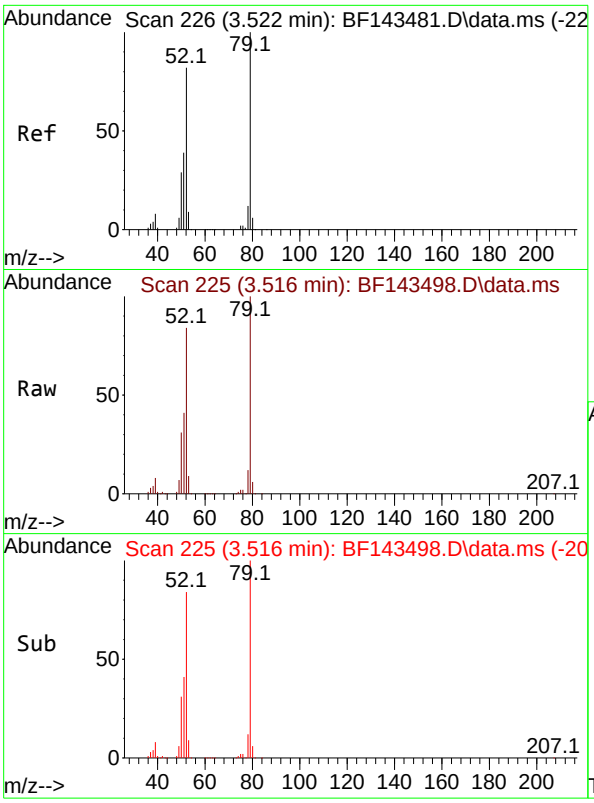


#2
1,4-Dioxane
Concen: 38.239 ng
RT: 2.740 min Scan# 93
Delta R.T. 0.006 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Tgt Ion: 88 Resp: 140603

Ion	Ratio	Lower	Upper
88	100		
58	85.9	66.7	100.1
43	32.3	25.8	38.8



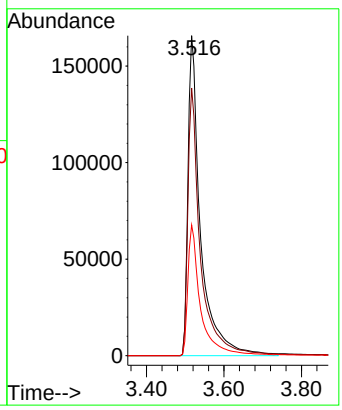


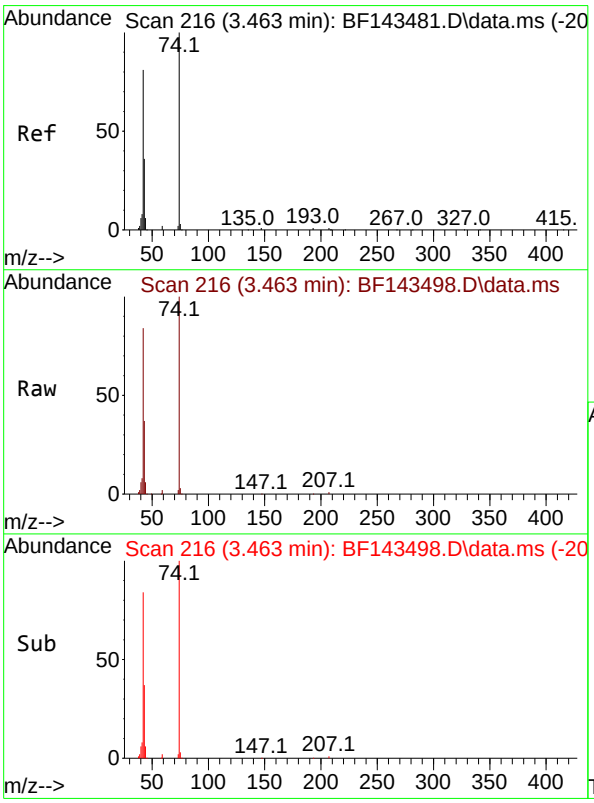
#3
Pyridine
Concen: 38.366 ng
RT: 3.516 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 79 Resp: 375727

Ion	Ratio	Lower	Upper
79	100		
52	83.7	65.6	98.4
51	40.9	31.2	46.8

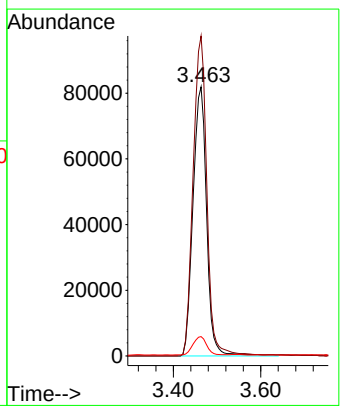


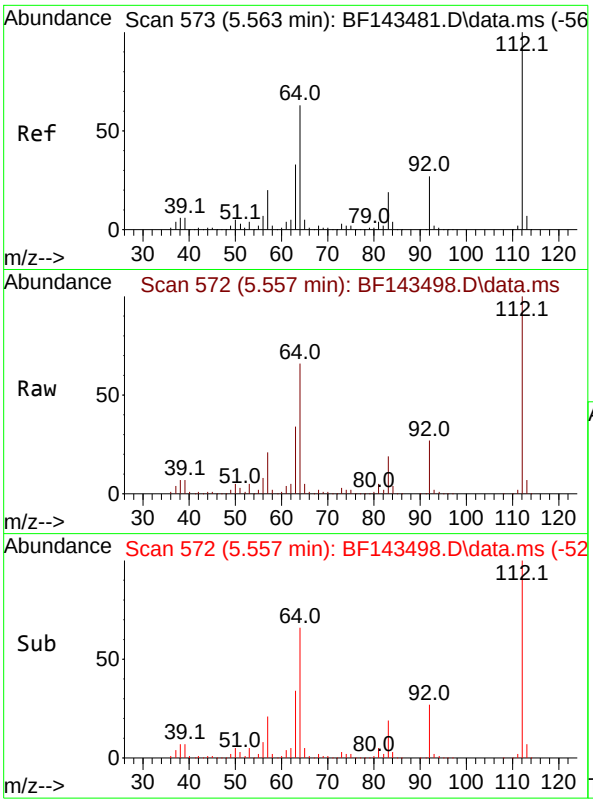


#4
n-Nitrosodimethylamine
Concen: 40.483 ng
RT: 3.463 min Scan# 216
Delta R.T. -0.012 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Tgt Ion: 42 Resp: 178227

Ion	Ratio	Lower	Upper
42	100		
74	118.9	98.6	148.0
44	7.2	5.8	8.8



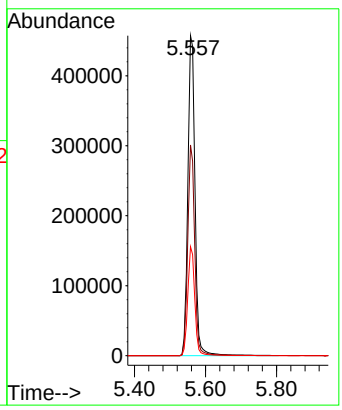


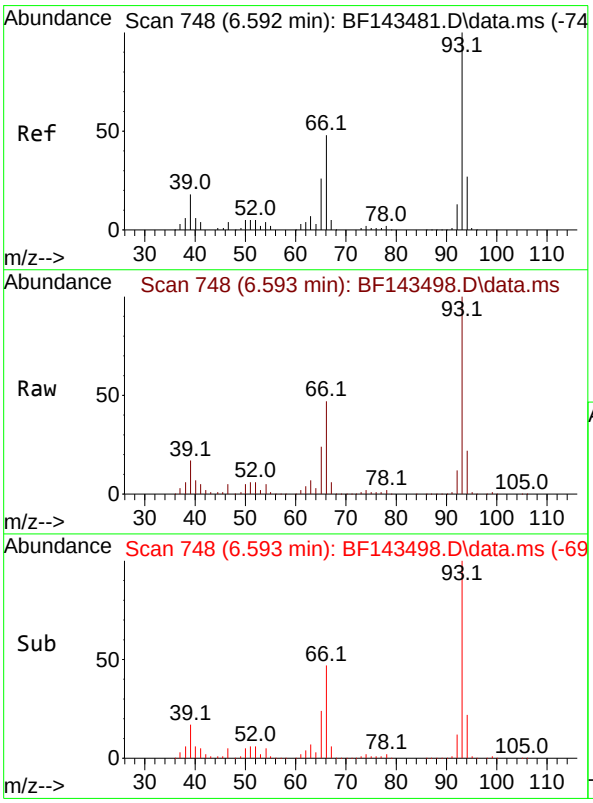
#5
2-Fluorophenol
Concen: 80.348 ng
RT: 5.557 min Scan# 5
Delta R.T. -0.006 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:112 Resp: 637738

Ion	Ratio	Lower	Upper
112	100		
64	65.9	50.4	75.6
63	34.1	26.4	39.6

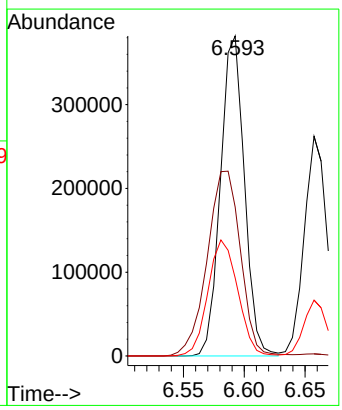


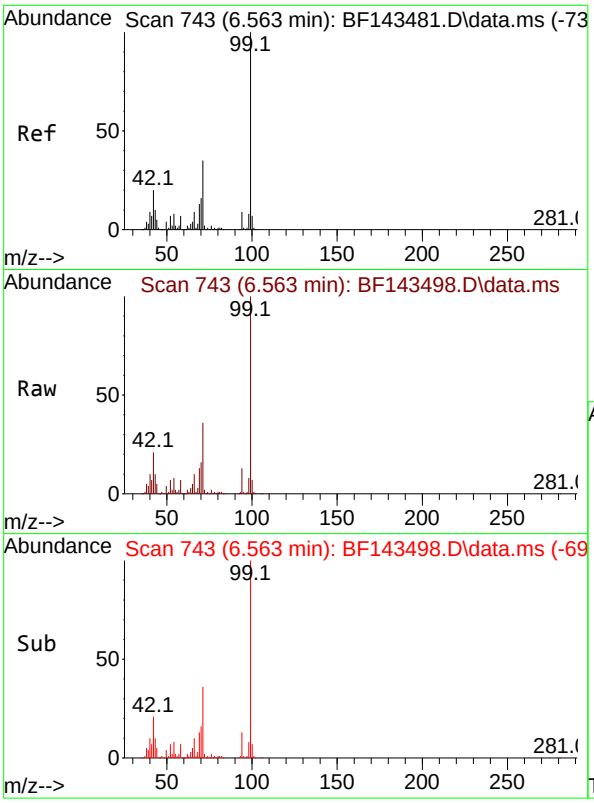


#6
Aniline
Concen: 39.899 ng
RT: 6.593 min Scan# 748
Delta R.T. 0.000 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Tgt Ion: 93 Resp: 522533

Ion	Ratio	Lower	Upper
93	100		
66	46.6	38.9	58.3
65	24.4	20.6	30.8



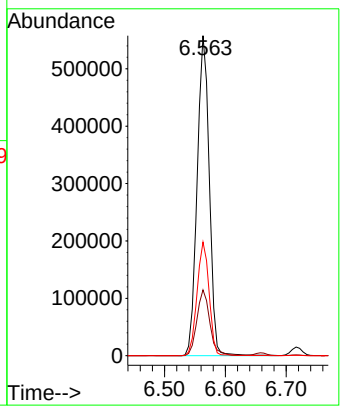


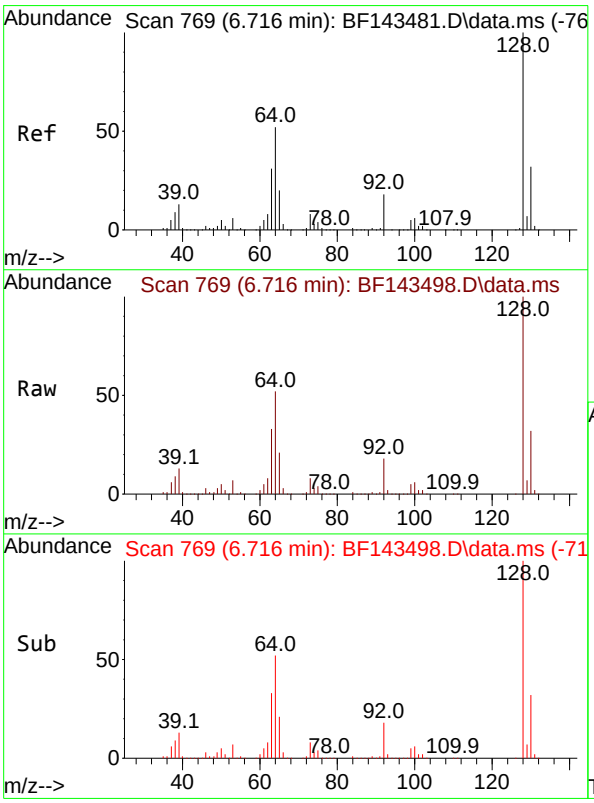
#7
Phenol-d6
Concen: 78.917 ng
RT: 6.563 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 99 Resp: 773234

Ion	Ratio	Lower	Upper
99	100		
42	20.5	16.3	24.5
71	35.5	28.2	42.2

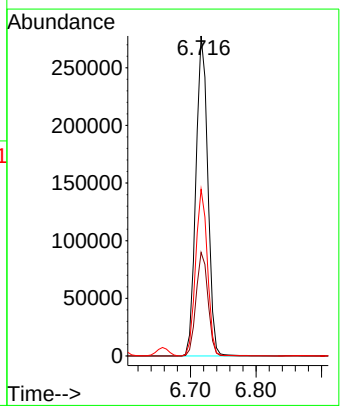


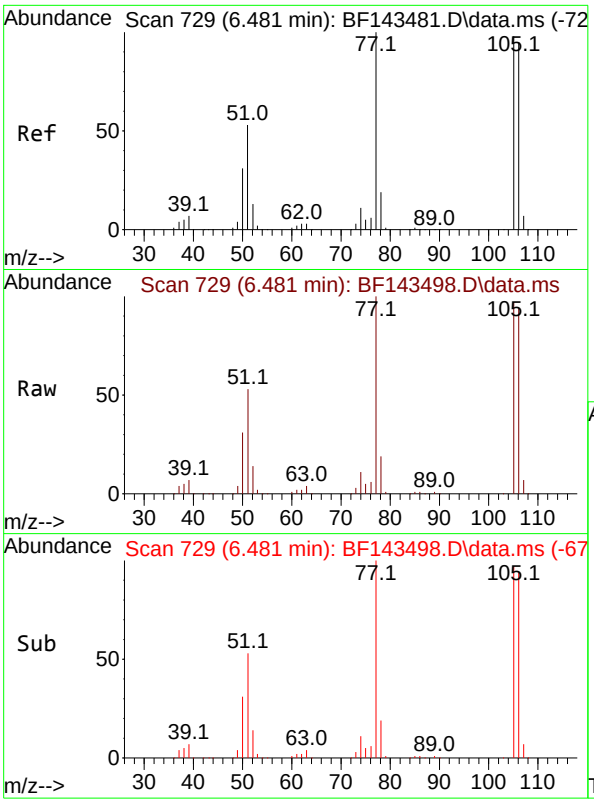


#8
2-Chlorophenol
Concen: 40.164 ng
RT: 6.716 min Scan# 769
Delta R.T. -0.006 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Tgt Ion:128 Resp: 352106

Ion	Ratio	Lower	Upper
128	100		
130	32.4	12.4	52.4
64	52.1	31.6	71.6



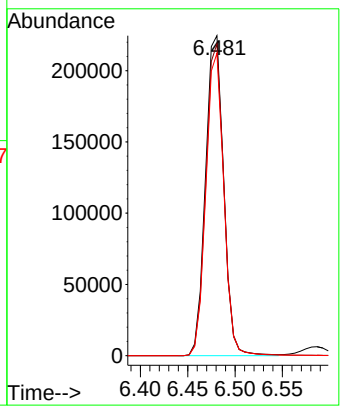


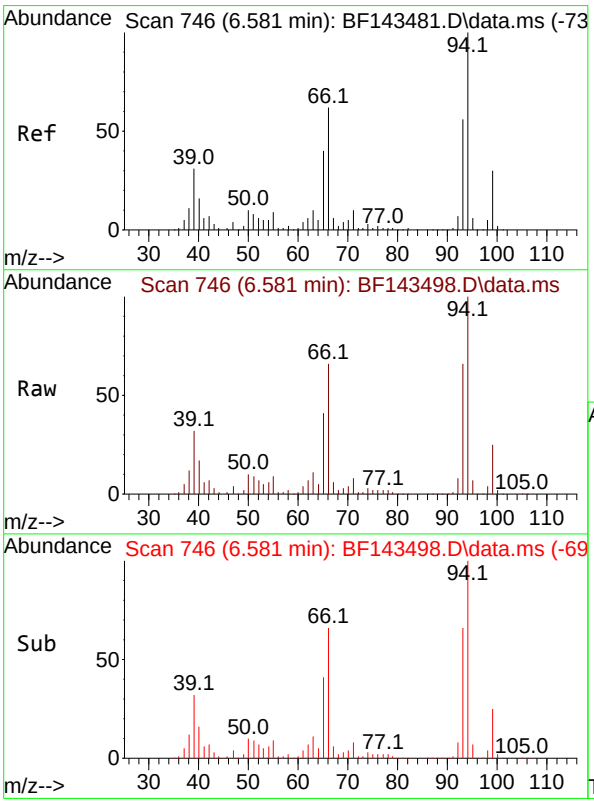
#9
Benzaldehyde
Concen: 37.769 ng
RT: 6.481 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 77 Resp: 299609

Ion	Ratio	Lower	Upper
77	100		
105	97.4	78.1	118.1
106	94.5	74.9	114.9

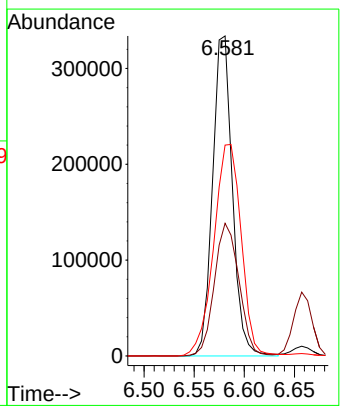


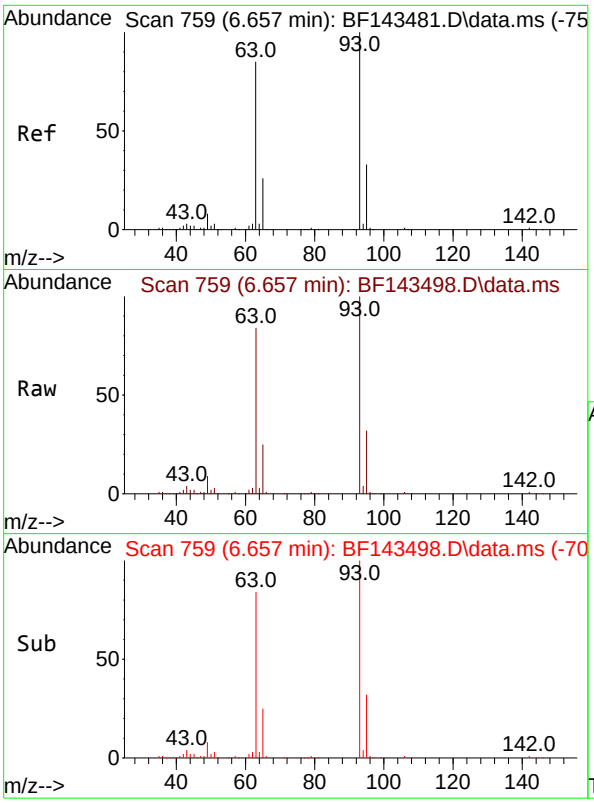


#10
Phenol
Concen: 40.504 ng
RT: 6.581 min Scan# 746
Delta R.T. -0.006 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Tgt Ion: 94 Resp: 457188

Ion	Ratio	Lower	Upper
94	100		
65	41.5	19.5	59.5
66	65.9	42.5	82.5



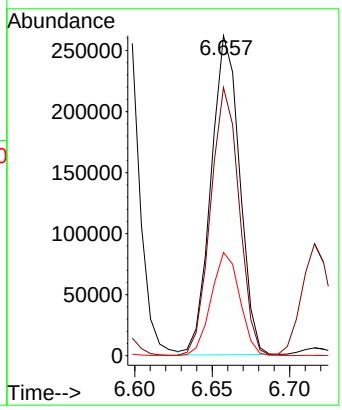


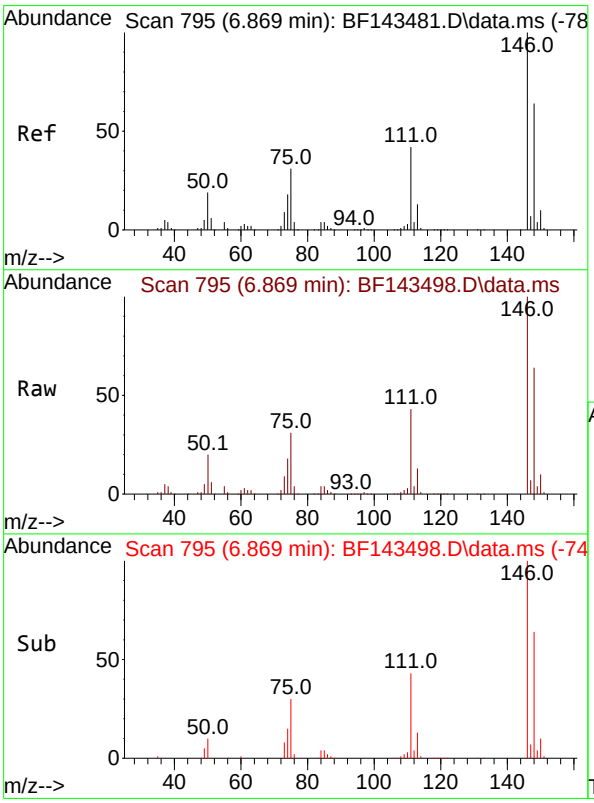
#11
bis(2-Chloroethyl)ether
Concen: 39.795 ng
RT: 6.657 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 93 Resp: 335666

Ion	Ratio	Lower	Upper
93	100		
63	83.8	63.6	103.6
95	32.2	12.8	52.8

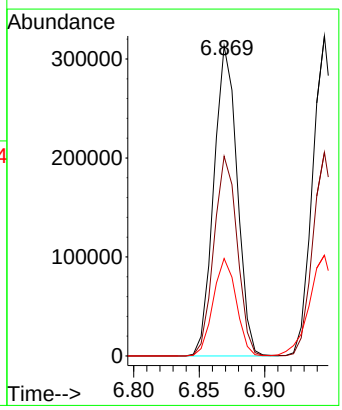


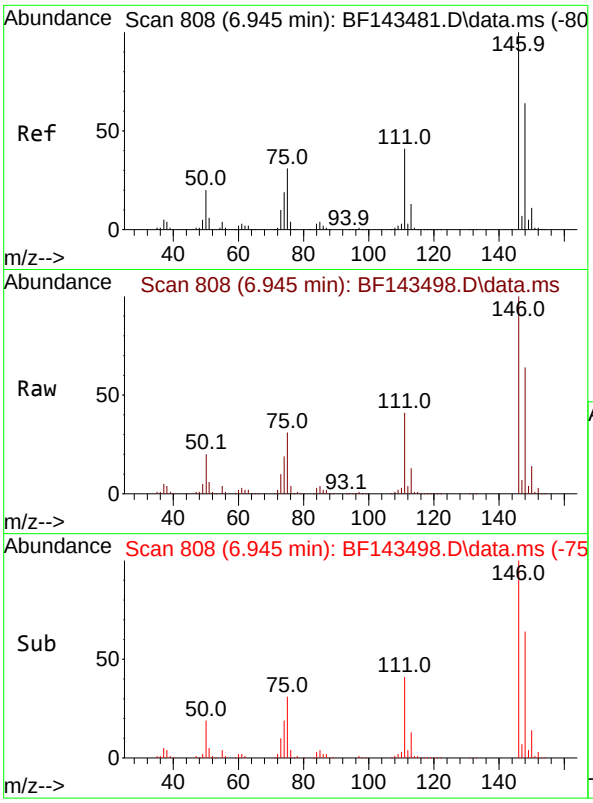


#12
1,3-Dichlorobenzene
Concen: 39.304 ng
RT: 6.869 min Scan# 795
Delta R.T. -0.006 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Tgt Ion:146 Resp: 387151

Ion	Ratio	Lower	Upper
146	100		
148	64.4	51.3	76.9
75	31.4	24.7	37.1



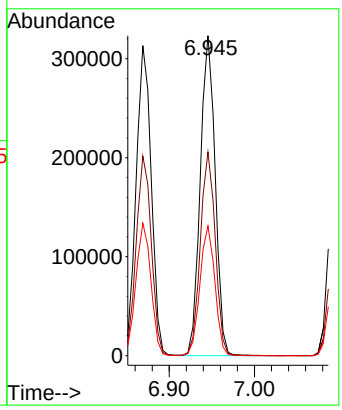


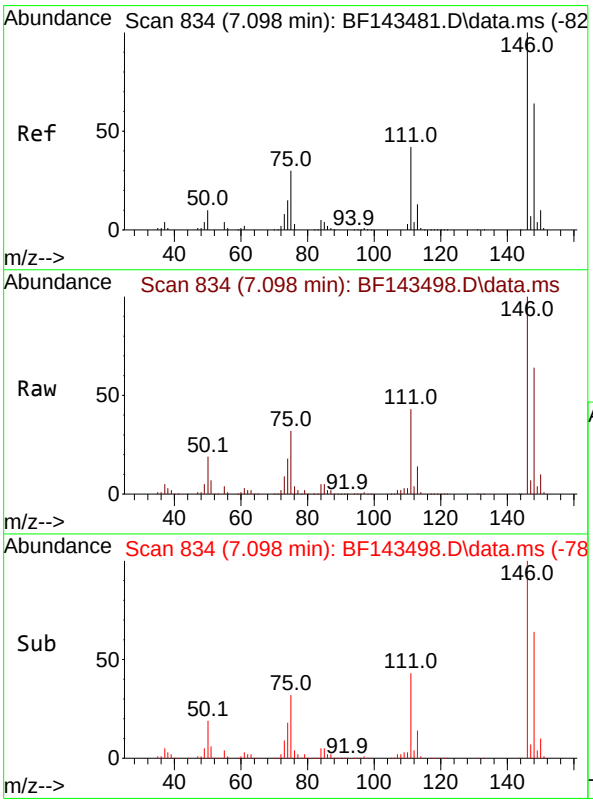
#13
1,4-Dichlorobenzene
Concen: 39.733 ng
RT: 6.945 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:146 Resp: 392595

Ion	Ratio	Lower	Upper
146	100		
148	63.7	51.5	77.3
111	40.5	32.6	49.0

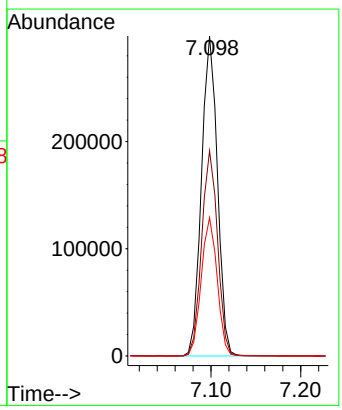


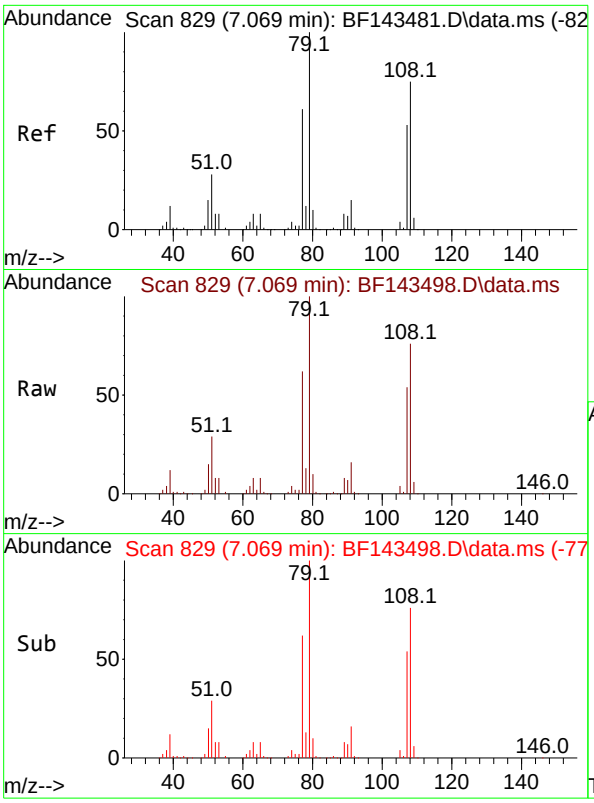


#14
1,2-Dichlorobenzene
Concen: 39.364 ng
RT: 7.098 min Scan# 834
Delta R.T. 0.000 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Tgt Ion:146 Resp: 368248

Ion	Ratio	Lower	Upper
146	100		
148	64.1	51.0	76.6
111	43.2	34.0	51.0



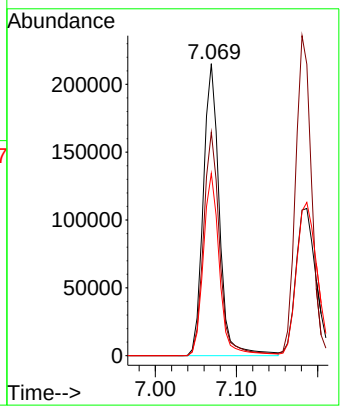


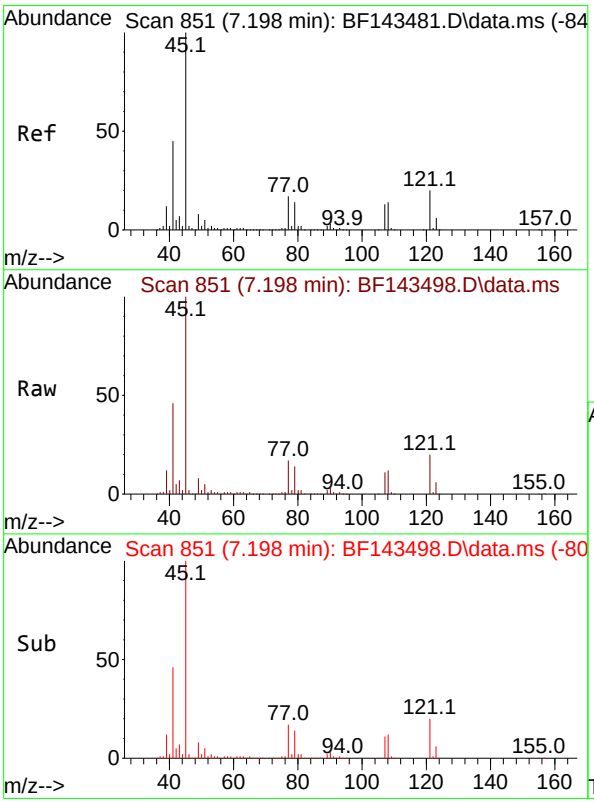
#15
Benzyl Alcohol
Concen: 40.257 ng
RT: 7.069 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 79 Resp: 295313

Ion	Ratio	Lower	Upper
79	100		
108	76.5	59.8	89.6
77	62.4	49.0	73.4

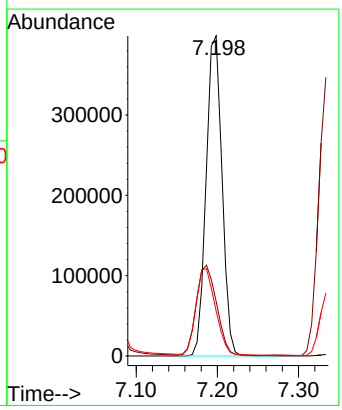


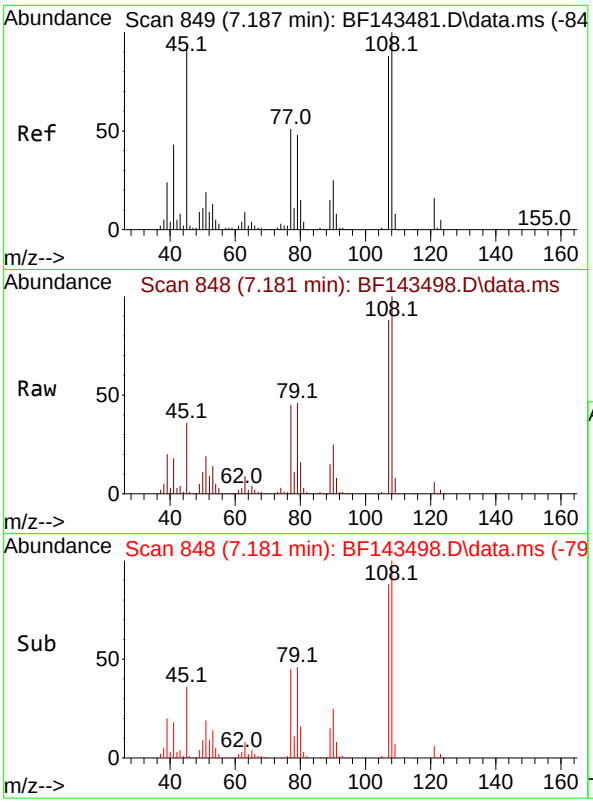


#16
2,2'-oxybis(1-Chloropropane)
Concen: 40.025 ng
RT: 7.198 min Scan# 851
Delta R.T. 0.000 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Tgt Ion: 45 Resp: 540115

Ion	Ratio	Lower	Upper
45	100		
77	17.1	0.0	37.9
79	14.0	0.0	34.7



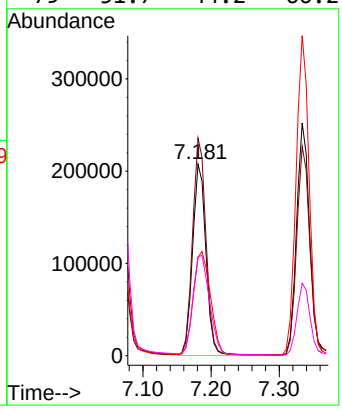


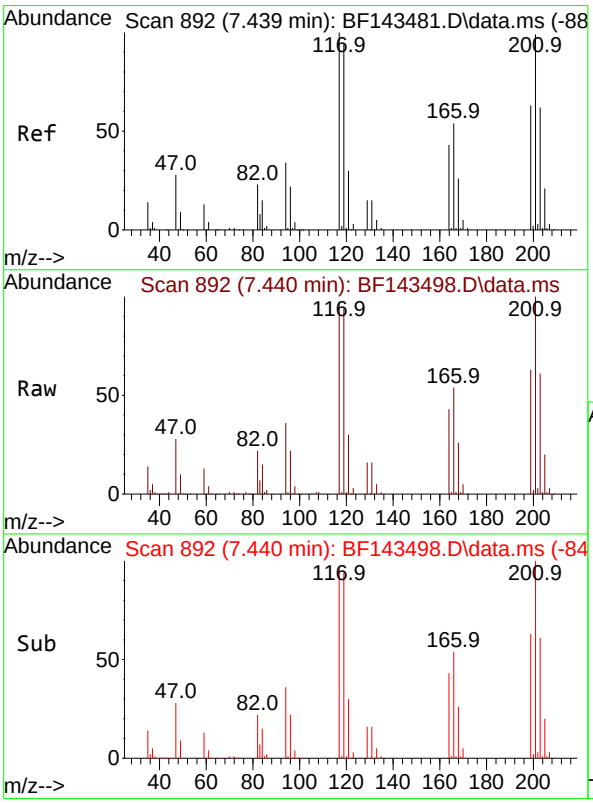
#17
2-Methylphenol
Concen: 40.241 ng
RT: 7.181 min Scan# 84
Delta R.T. -0.006 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:107 Resp: 283139

Ion	Ratio	Lower	Upper
107	100		
108	113.6	91.1	136.7
77	51.4	46.2	69.4
79	51.7	44.2	66.2

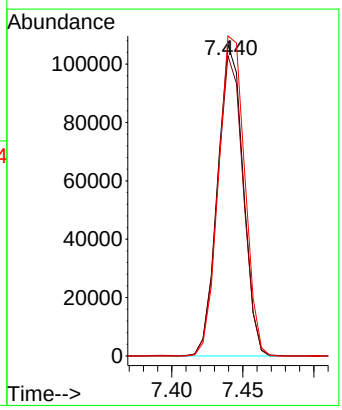


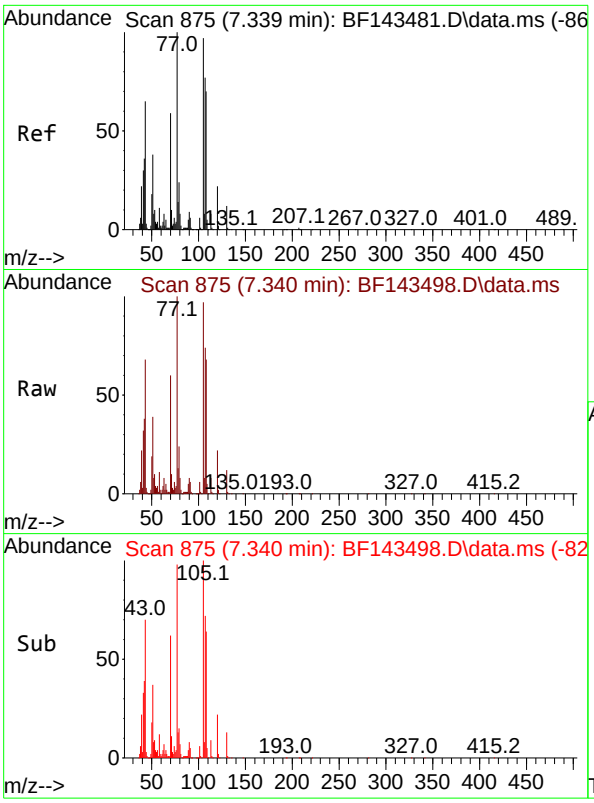


#18
Hexachloroethane
Concen: 39.700 ng
RT: 7.440 min Scan# 892
Delta R.T. -0.006 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Tgt Ion:117 Resp: 133370

Ion	Ratio	Lower	Upper
117	100		
119	96.4	75.4	113.0
201	102.7	79.0	118.4



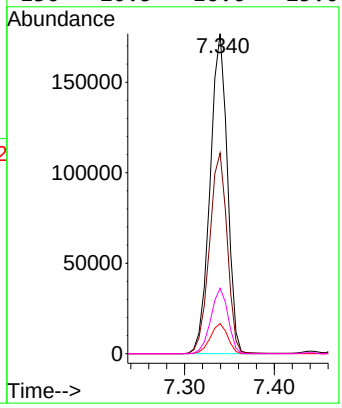


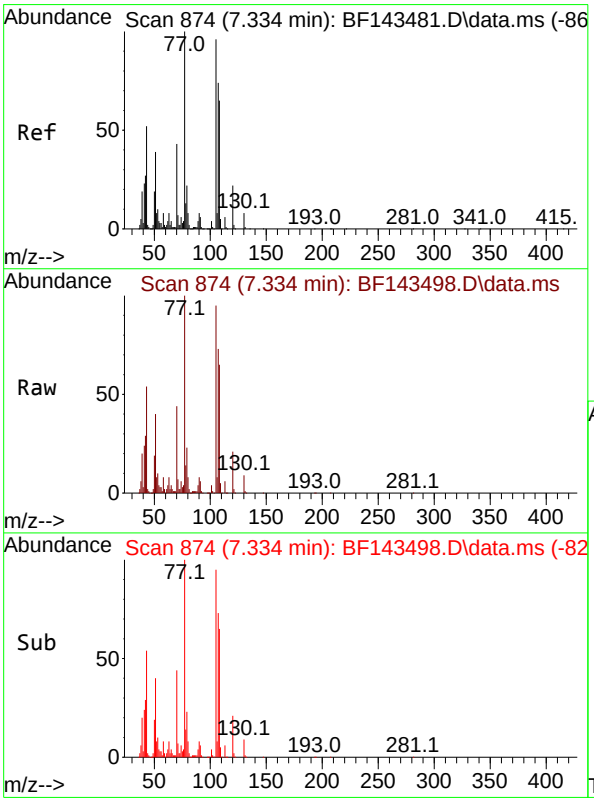
#19
n-Nitroso-di-n-propylamine
Concen: 39.455 ng
RT: 7.340 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 70 Resp: 236284

Ion	Ratio	Lower	Upper
70	100		
42	62.7	49.3	73.9
101	9.4	7.8	11.8
130	20.5	16.6	25.0

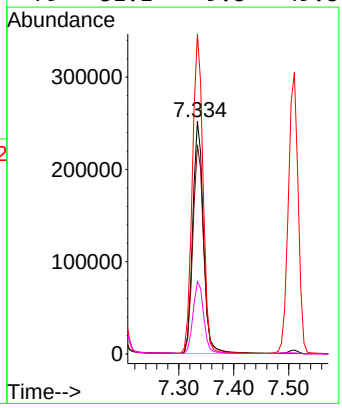


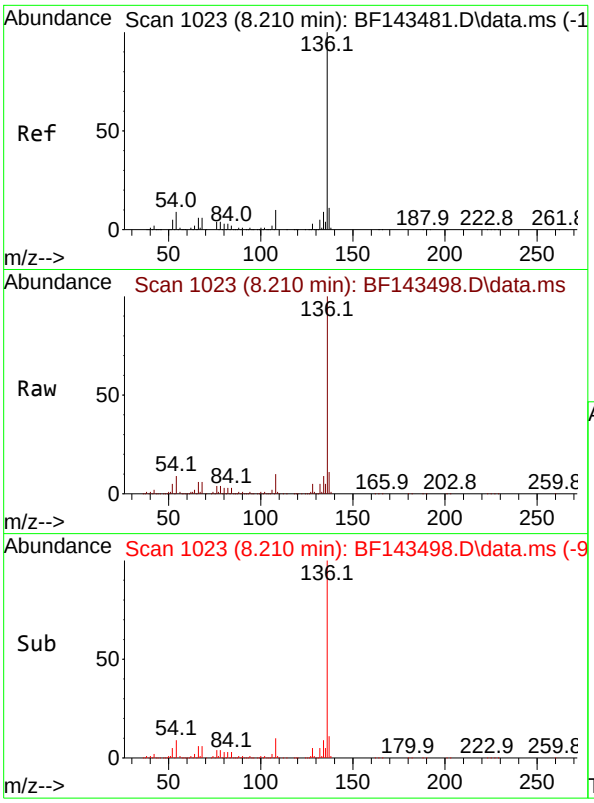


#20
3+4-Methylphenols
Concen: 40.322 ng
RT: 7.334 min Scan# 874
Delta R.T. -0.006 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Tgt Ion:107 Resp: 338683

Ion	Ratio	Lower	Upper
107	100		
108	89.9	68.4	108.4
77	137.6	116.1	156.1
79	31.1	9.8	49.8



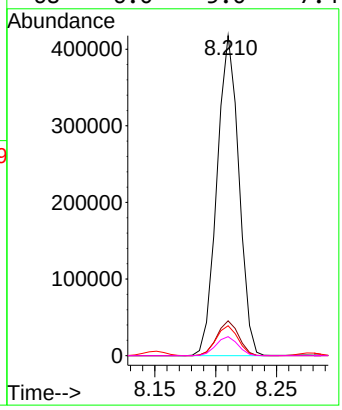


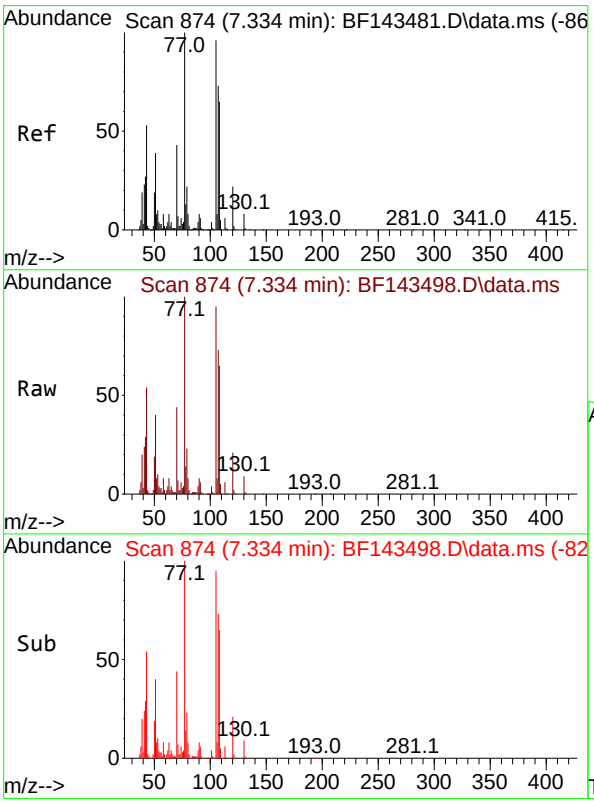
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.210 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:136 Resp: 522619

Ion	Ratio	Lower	Upper
136	100		
137	10.9	9.0	13.4
54	9.4	7.4	11.2
68	6.0	5.0	7.4

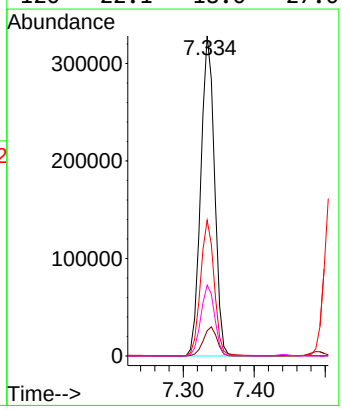


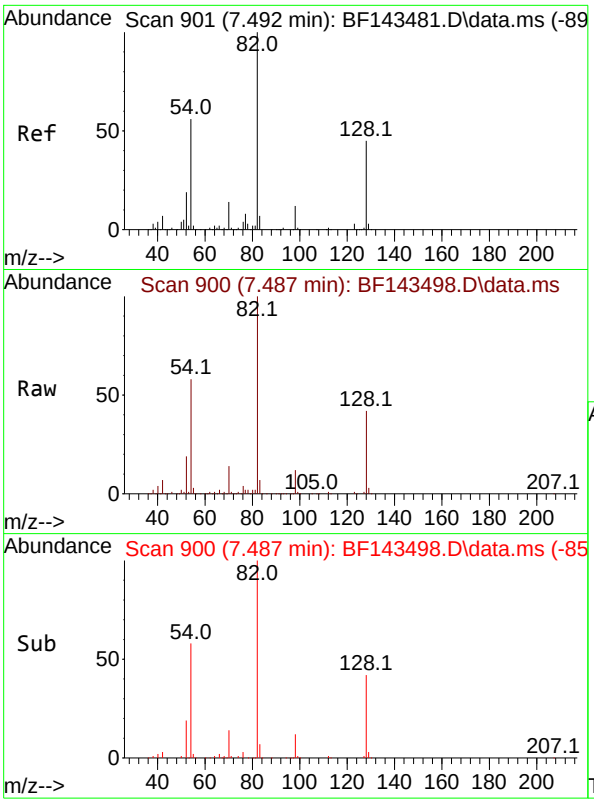


#22
Acetophenone
Concen: 39.285 ng
RT: 7.334 min Scan# 874
Delta R.T. -0.006 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Tgt Ion:105 Resp: 443559

Ion	Ratio	Lower	Upper
105	100		
71	7.9	5.9	8.9
51	42.4	32.5	48.7
120	22.1	18.0	27.0



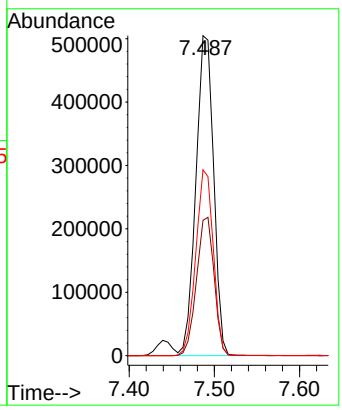


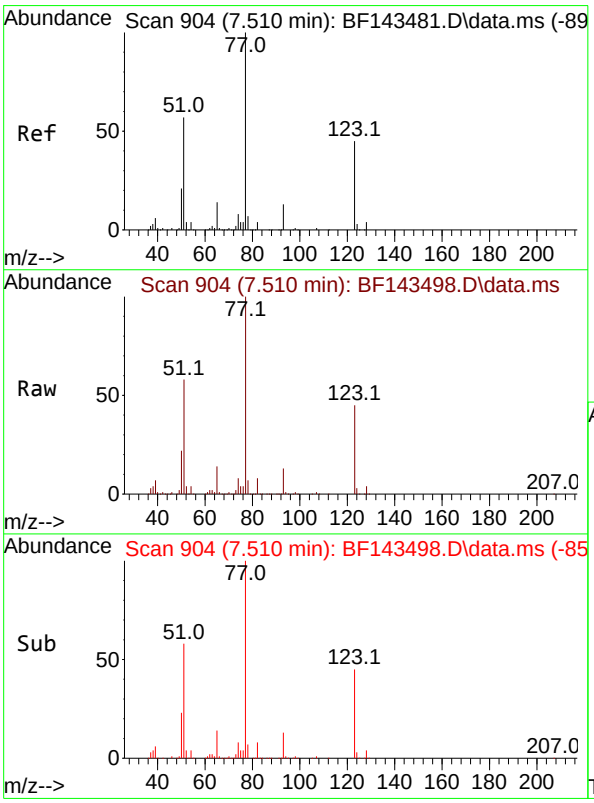
#23
Nitrobenzene-d5
Concen: 81.469 ng
RT: 7.487 min Scan# 9
Delta R.T. -0.012 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 82 Resp: 729626

Ion	Ratio	Lower	Upper
82	100		
128	42.3	35.5	53.3
54	58.1	44.3	66.5

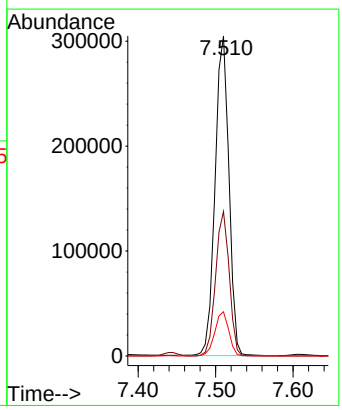


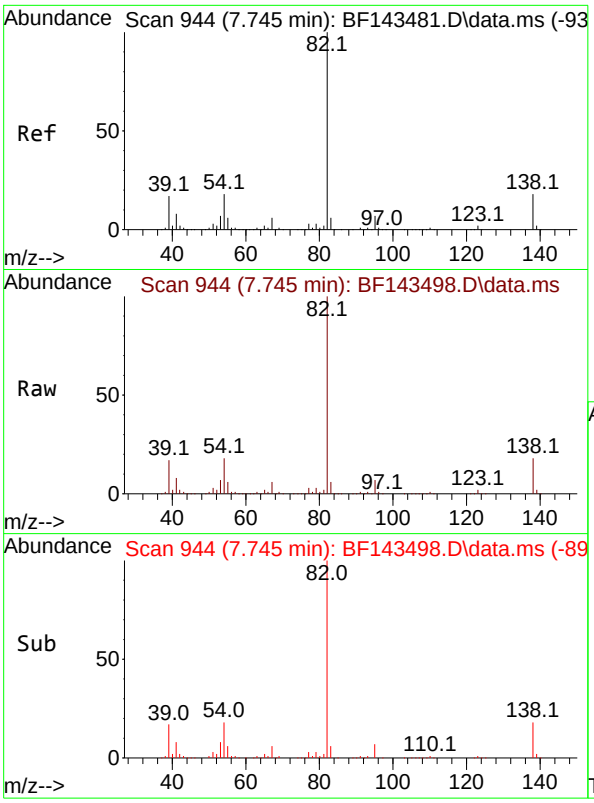


#24
Nitrobenzene
Concen: 40.995 ng
RT: 7.510 min Scan# 904
Delta R.T. -0.006 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Tgt Ion: 77 Resp: 377880

Ion	Ratio	Lower	Upper
77	100		
123	45.2	36.1	54.1
65	13.8	11.0	16.6



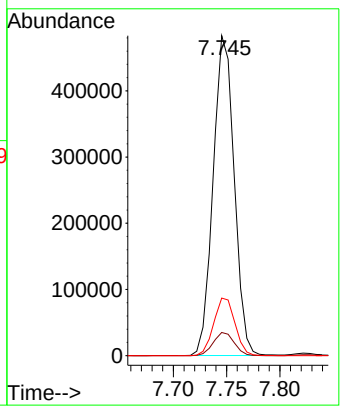


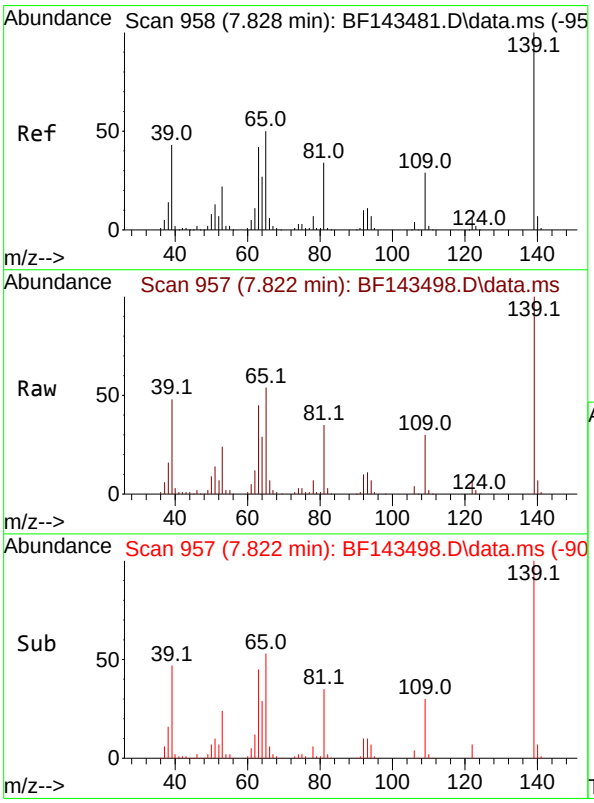
#25
Isophorone
Concen: 40.435 ng
RT: 7.745 min Scan# 94
Delta R.T. -0.012 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 82 Resp: 663816

Ion	Ratio	Lower	Upper
82	100		
95	7.2	5.8	8.8
138	18.0	14.2	21.4

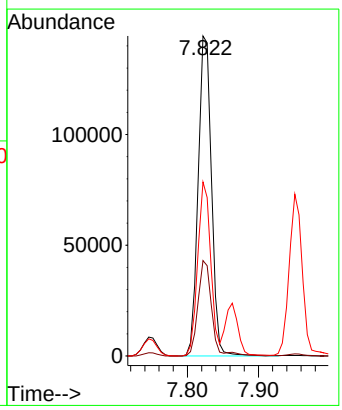


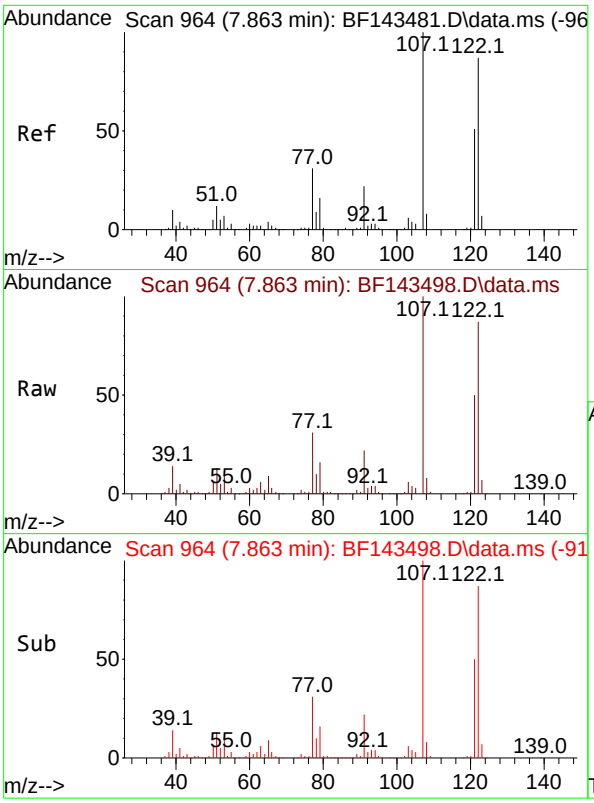


#26
2-Nitrophenol
Concen: 41.873 ng
RT: 7.822 min Scan# 957
Delta R.T. -0.006 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Tgt Ion:139 Resp: 189065

Ion	Ratio	Lower	Upper
139	100		
109	29.8	23.0	34.6
65	54.4	40.3	60.5



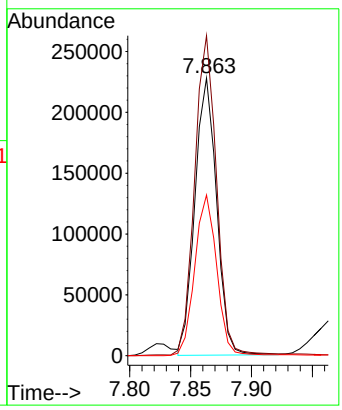


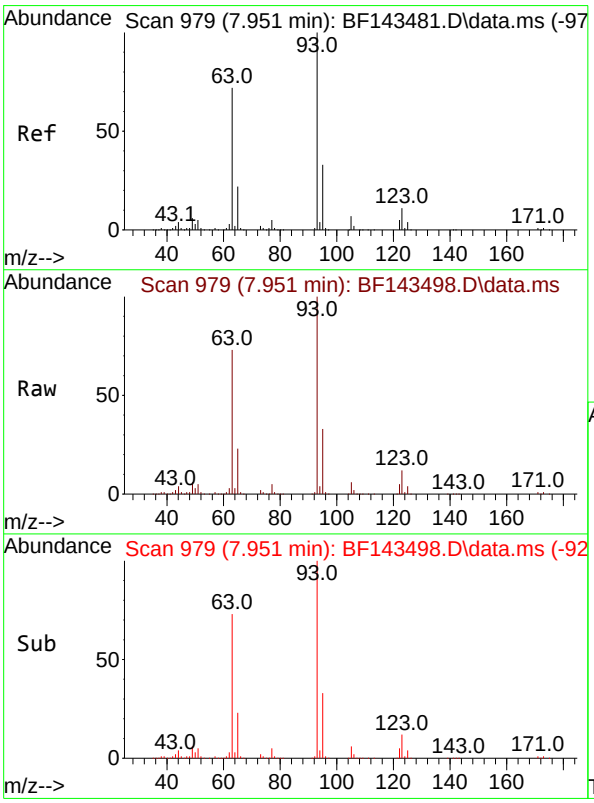
#27
2,4-Dimethylphenol
Concen: 40.152 ng
RT: 7.863 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:122 Resp: 282610

Ion	Ratio	Lower	Upper
122	100		
107	115.3	91.5	137.3
121	57.9	47.0	70.4

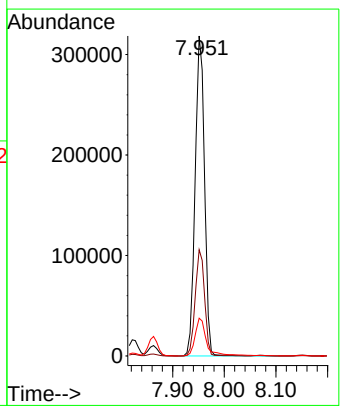


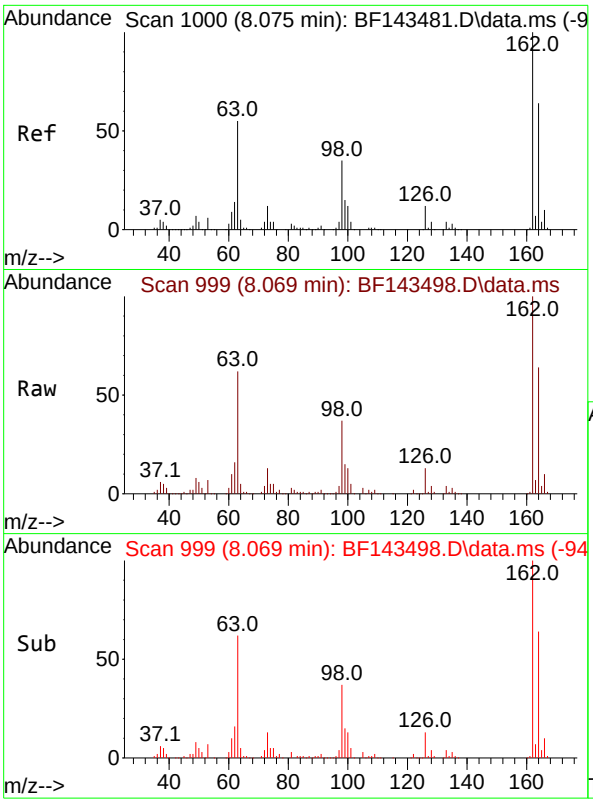


#28
bis(2-Chloroethoxy)methane
Concen: 39.898 ng
RT: 7.951 min Scan# 979
Delta R.T. -0.006 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Tgt Ion: 93 Resp: 402537

Ion	Ratio	Lower	Upper
93	100		
95	33.2	26.0	39.0
123	11.8	9.1	13.7



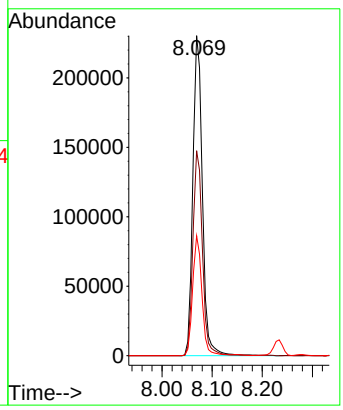


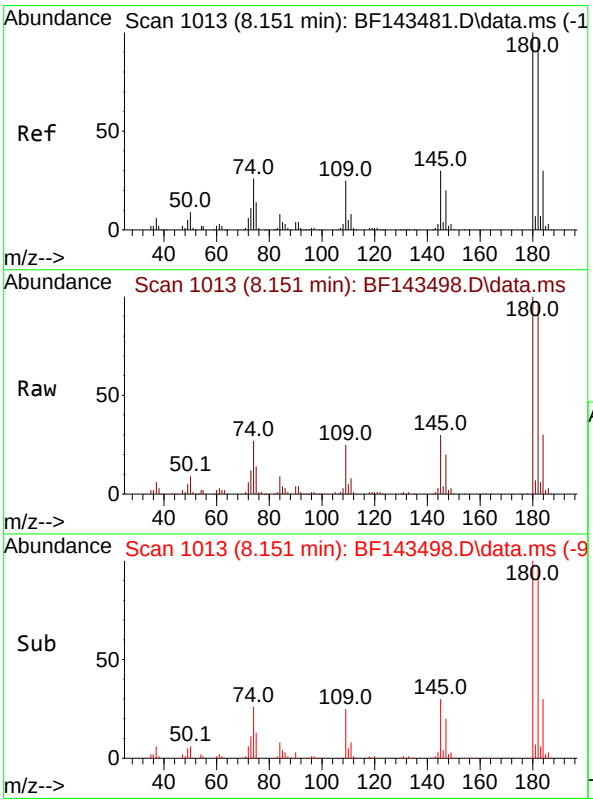
#29
2,4-Dichlorophenol
Concen: 40.336 ng
RT: 8.069 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:162 Resp: 303216

Ion	Ratio	Lower	Upper
162	100		
164	64.1	43.5	83.5
98	37.4	15.1	55.1

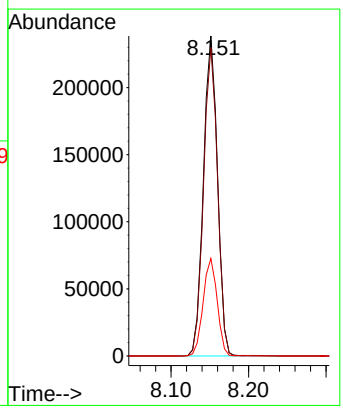


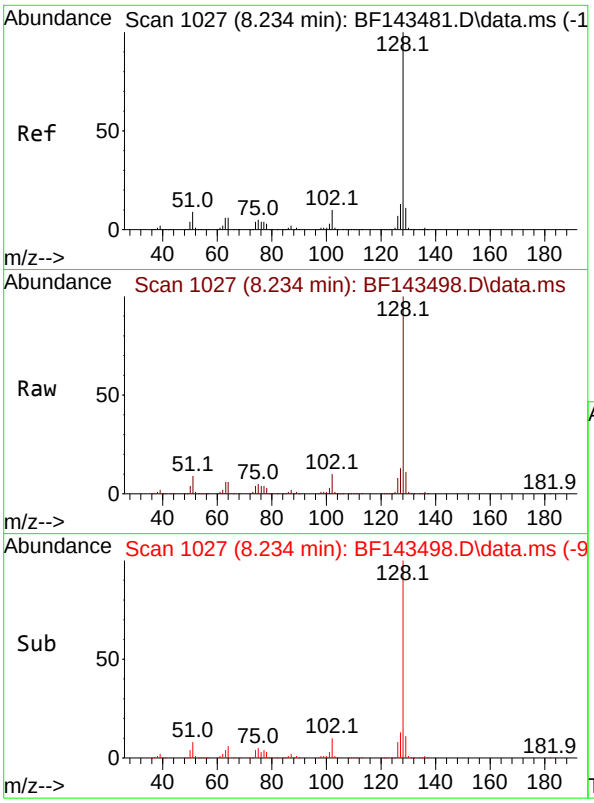


#30
1,2,4-Trichlorobenzene
Concen: 38.930 ng
RT: 8.151 min Scan# 1013
Delta R.T. 0.000 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Tgt Ion:180 Resp: 300881

Ion	Ratio	Lower	Upper
180	100		
182	96.4	76.6	114.8
145	30.4	24.3	36.5



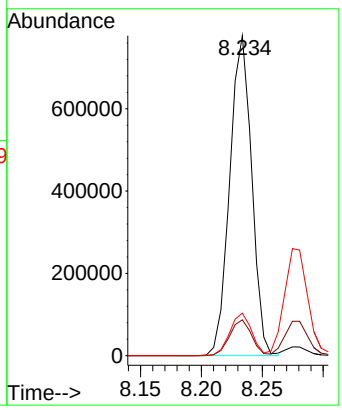


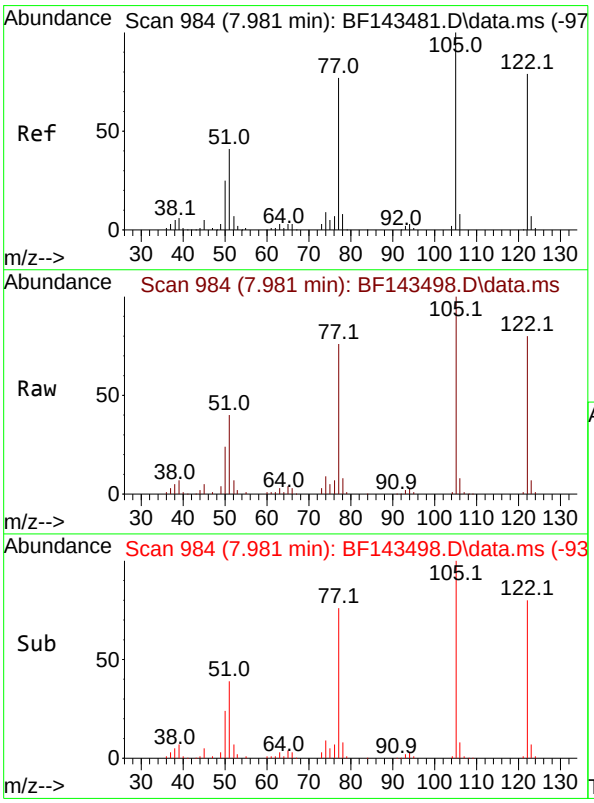
#31
Naphthalene
Concen: 38.863 ng
RT: 8.234 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:128 Resp: 975102

Ion	Ratio	Lower	Upper
128	100		
129	11.2	8.8	13.2
127	13.3	10.6	16.0

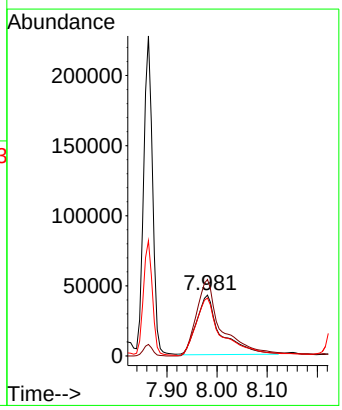


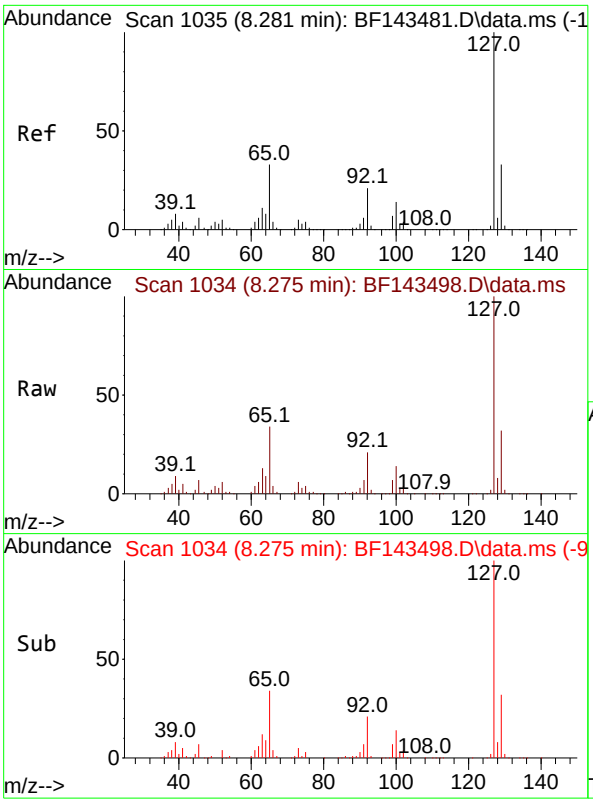


#32
Benzoic acid
Concen: 37.123 ng
RT: 7.981 min Scan# 984
Delta R.T. -0.029 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Tgt Ion:122 Resp: 142723

Ion	Ratio	Lower	Upper
122	100		
105	125.7	104.7	144.7
77	95.2	77.3	117.3



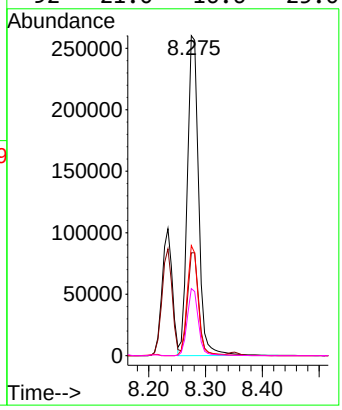


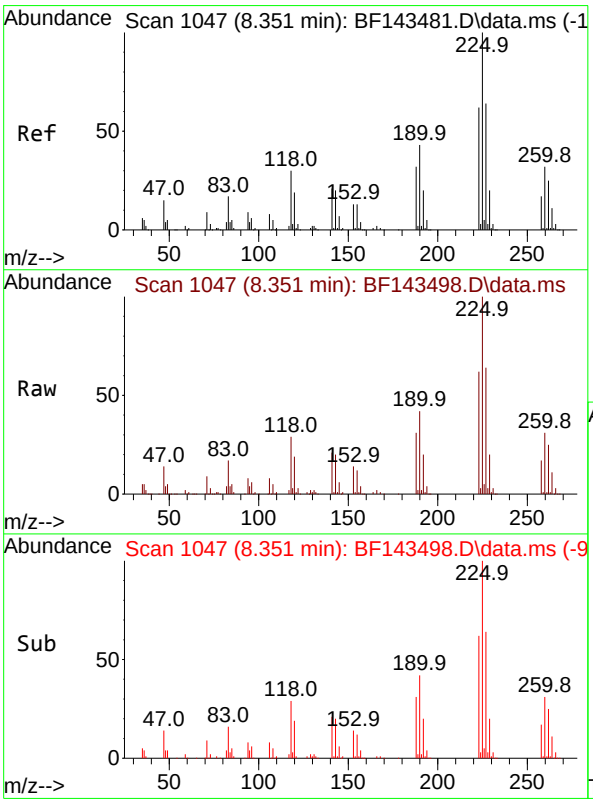
#33
4-Chloroaniline
Concen: 40.252 ng
RT: 8.275 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:127 Resp: 358457

Ion	Ratio	Lower	Upper
127	100		
129	32.2	26.1	39.1
65	34.4	26.2	39.2
92	21.0	16.6	25.0

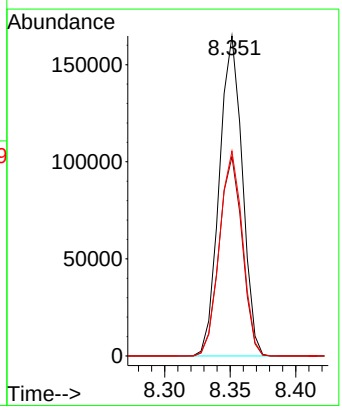


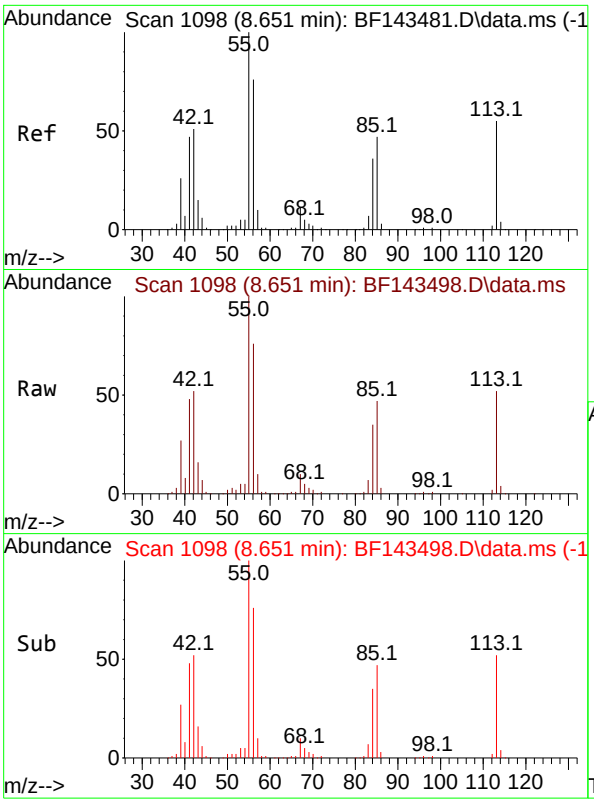


#34
Hexachlorobutadiene
Concen: 39.776 ng
RT: 8.351 min Scan# 1047
Delta R.T. 0.000 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Tgt Ion:225 Resp: 200566

Ion	Ratio	Lower	Upper
225	100		
223	62.2	49.9	74.9
227	64.0	50.9	76.3



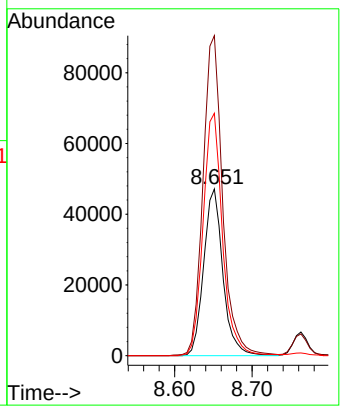


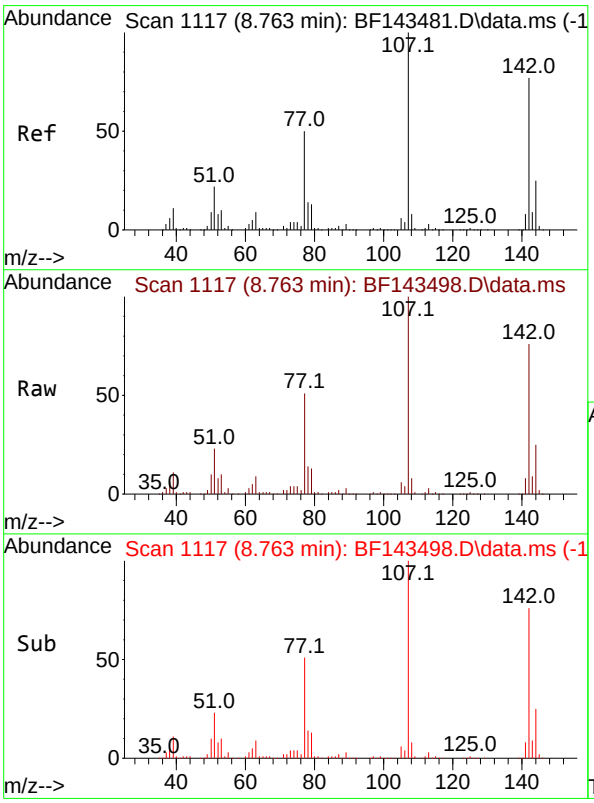
#35
Caprolactam
Concen: 44.931 ng
RT: 8.651 min Scan# 1
Delta R.T. -0.024 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:113 Resp: 81048

Ion	Ratio	Lower	Upper
113	100		
55	192.0	162.8	202.8
56	145.4	118.1	158.1

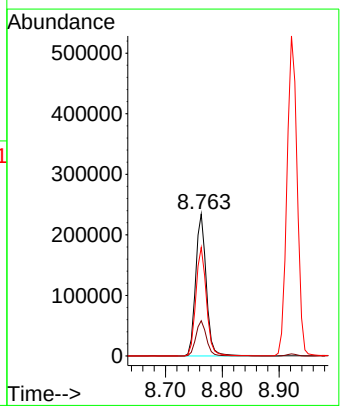


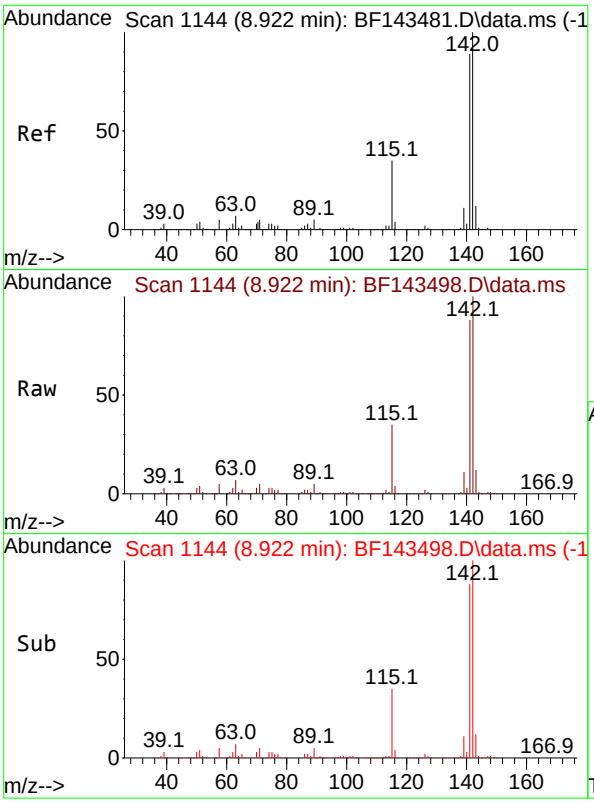


#36
4-Chloro-3-methylphenol
Concen: 40.718 ng
RT: 8.763 min Scan# 1117
Delta R.T. -0.006 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Tgt Ion:107 Resp: 306743

Ion	Ratio	Lower	Upper
107	100		
144	24.9	19.9	29.9
142	76.4	61.8	92.8



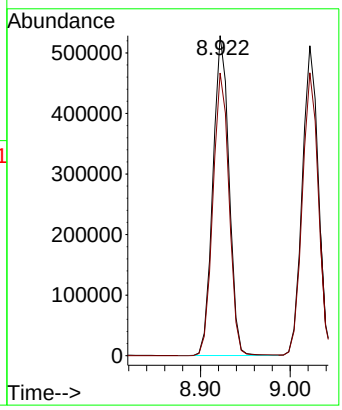


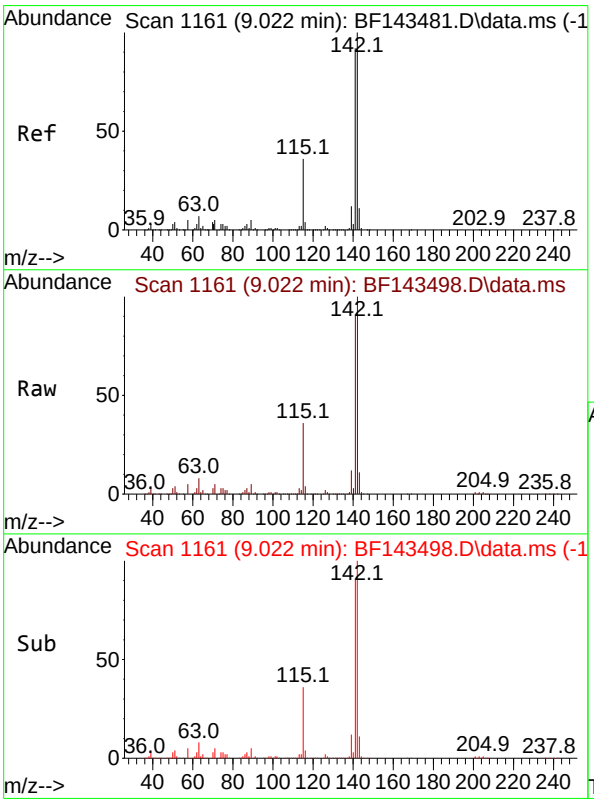
#37
2-Methylnaphthalene
Concen: 39.283 ng
RT: 8.922 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:142 Resp: 658303

Ion	Ratio	Lower	Upper
142	100		
141	88.4	71.0	106.4

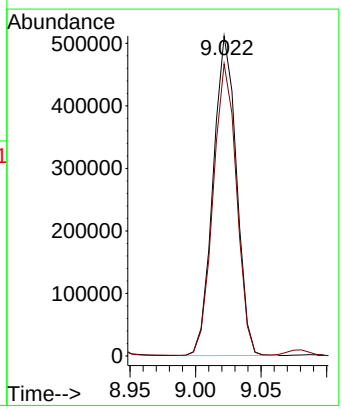


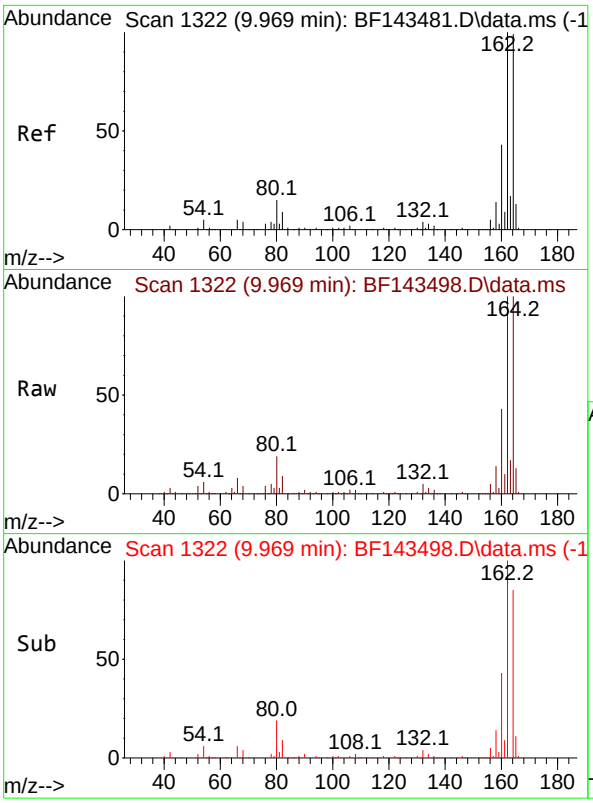


#38
1-Methylnaphthalene
Concen: 39.442 ng
RT: 9.022 min Scan# 1161
Delta R.T. -0.006 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Tgt Ion:142 Resp: 632252

Ion	Ratio	Lower	Upper
142	100		
141	91.3	73.3	109.9



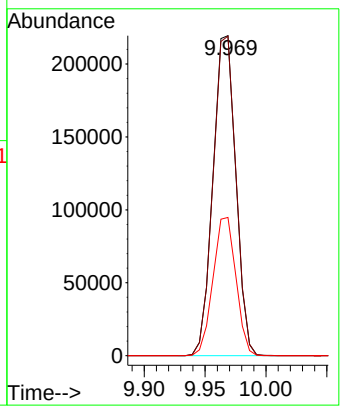


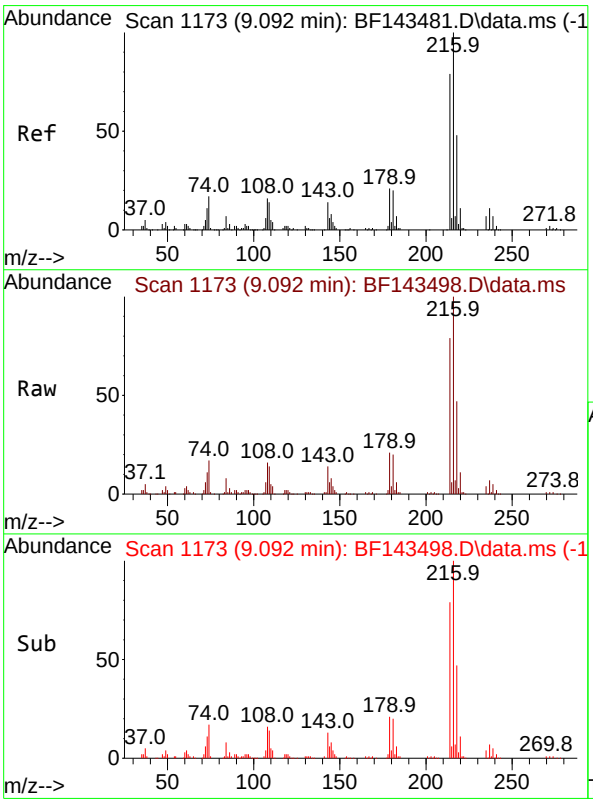
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:164 Resp: 286971

Ion	Ratio	Lower	Upper
164	100		
162	99.9	80.5	120.7
160	43.2	34.3	51.5

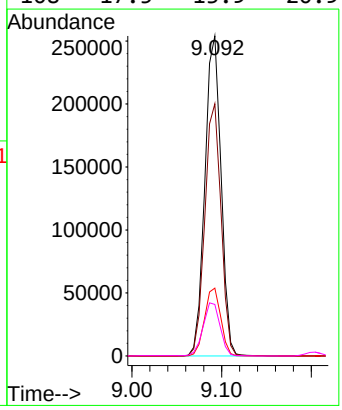


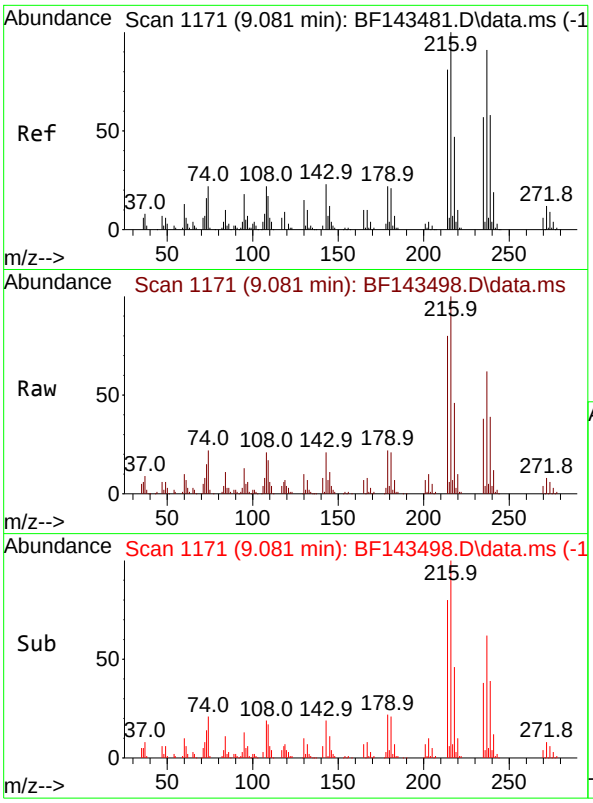


#40
1,2,4,5-Tetrachlorobenzene
Concen: 38.686 ng
RT: 9.092 min Scan# 1173
Delta R.T. 0.000 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Tgt Ion:216 Resp: 317550

Ion	Ratio	Lower	Upper
216	100		
214	79.1	63.4	95.0
179	21.3	16.5	24.7
108	17.5	13.9	20.9



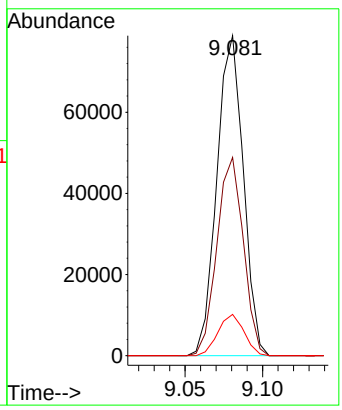


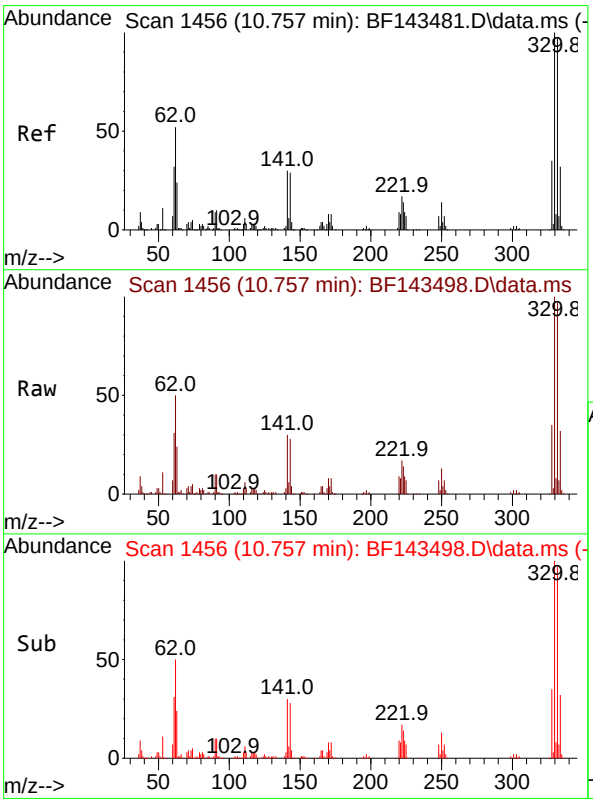
#41
Hexachlorocyclopentadiene
Concen: 33.457 ng
RT: 9.081 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:237 Resp: 93698

Ion	Ratio	Lower	Upper
237	100		
235	61.9	42.6	82.6
272	12.9	0.0	33.4

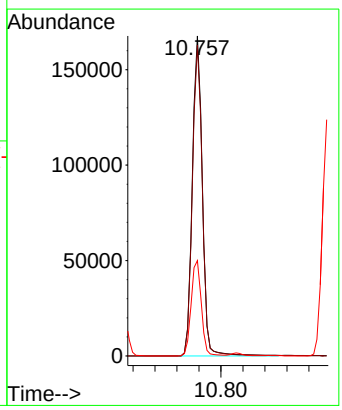


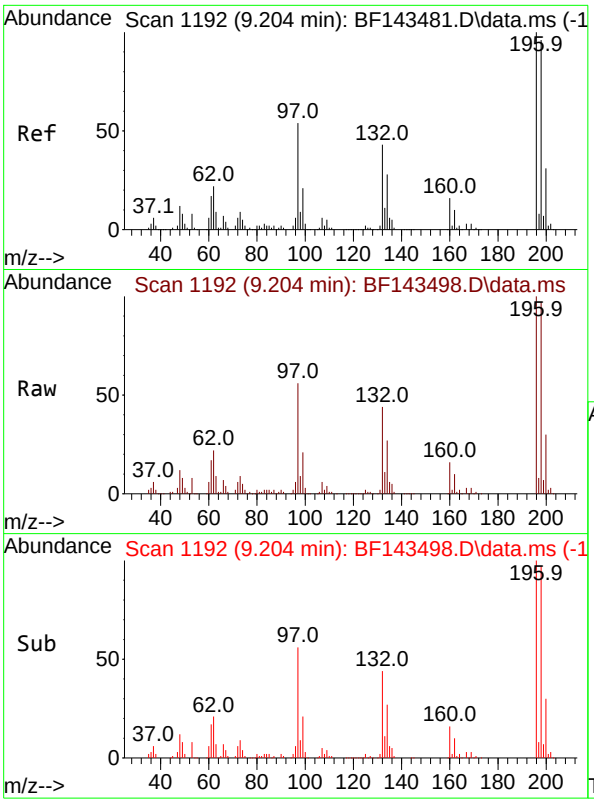


#42
2,4,6-Tribromophenol
Concen: 79.261 ng
RT: 10.757 min Scan# 1456
Delta R.T. -0.006 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Tgt Ion:330 Resp: 211727

Ion	Ratio	Lower	Upper
330	100		
332	97.3	78.0	117.0
141	30.3	23.7	35.5



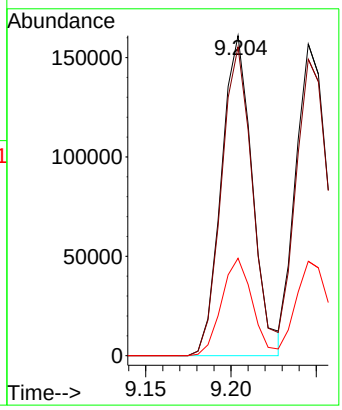


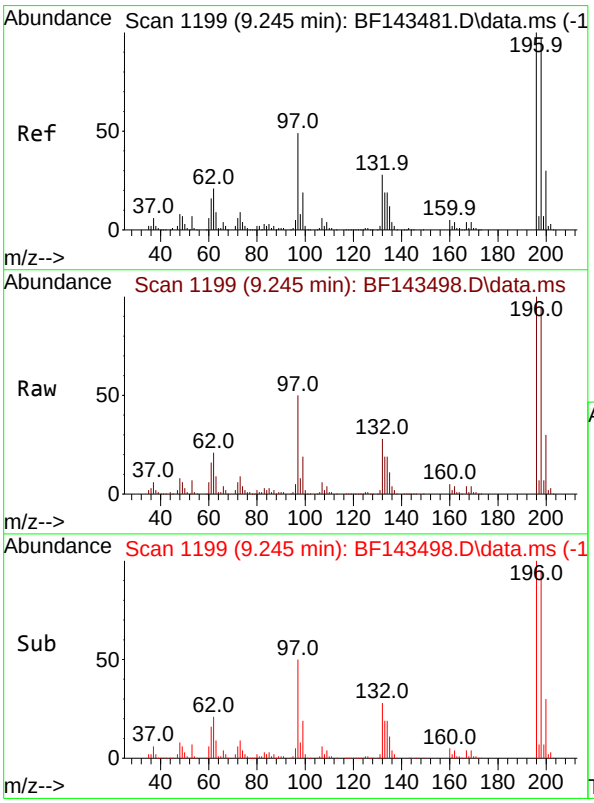
#43
2,4,6-Trichlorophenol
Concen: 40.426 ng
RT: 9.204 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:196 Resp: 204187

Ion	Ratio	Lower	Upper
196	100		
198	96.5	77.0	115.4
200	30.4	24.6	37.0

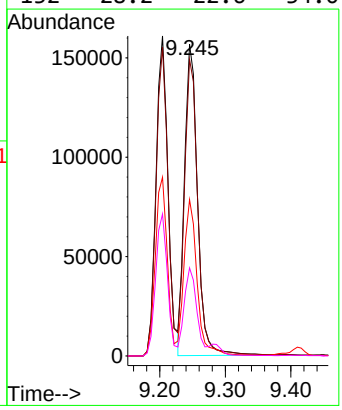


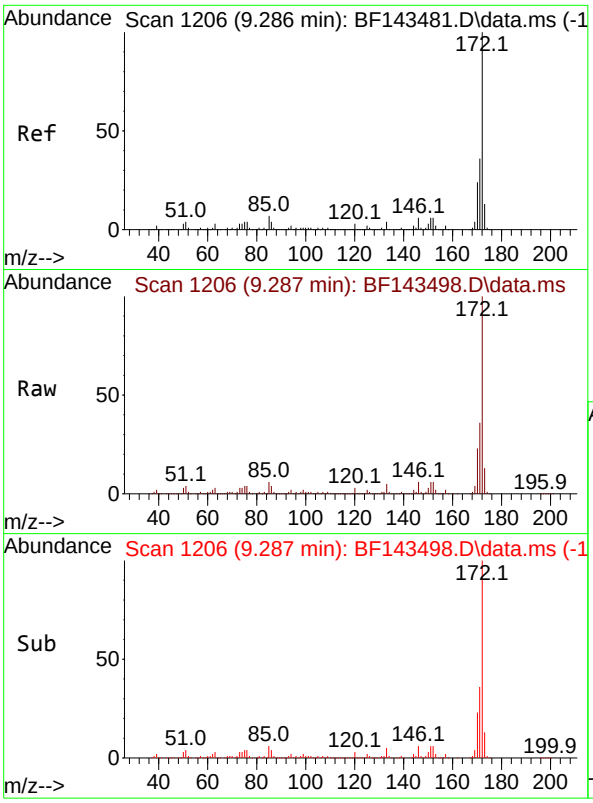


#44
2,4,5-Trichlorophenol
Concen: 39.194 ng
RT: 9.245 min Scan# 1199
Delta R.T. -0.006 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Tgt Ion:196 Resp: 216241

Ion	Ratio	Lower	Upper
196	100		
198	95.1	77.3	115.9
97	50.2	40.0	60.0
132	28.2	22.6	34.0



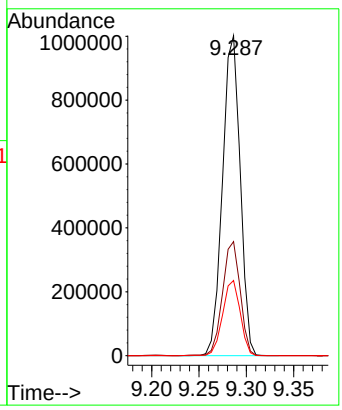


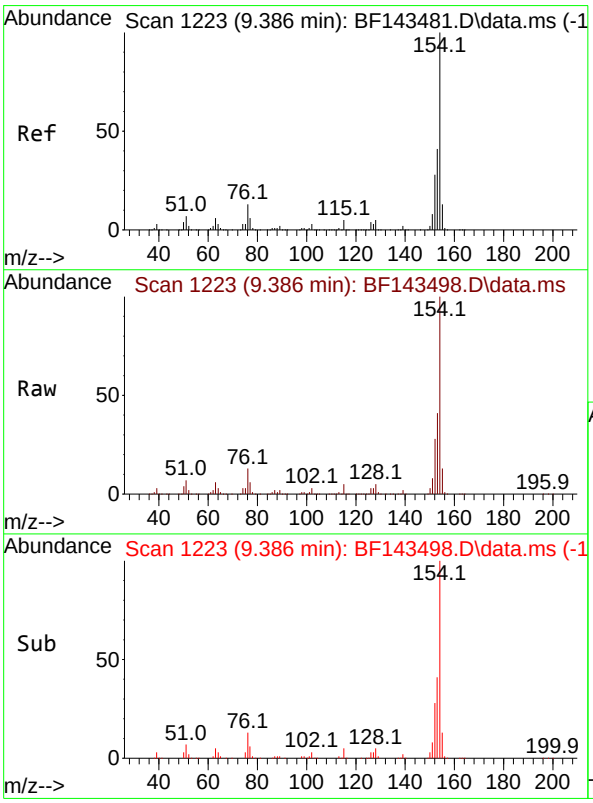
#45
2-Fluorobiphenyl
Concen: 75.061 ng
RT: 9.287 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:172 Resp: 1303360

Ion	Ratio	Lower	Upper
172	100		
171	35.6	28.8	43.2
170	23.5	18.8	28.2

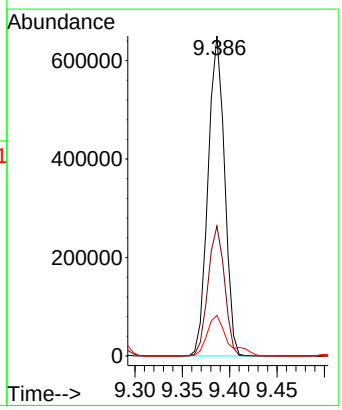


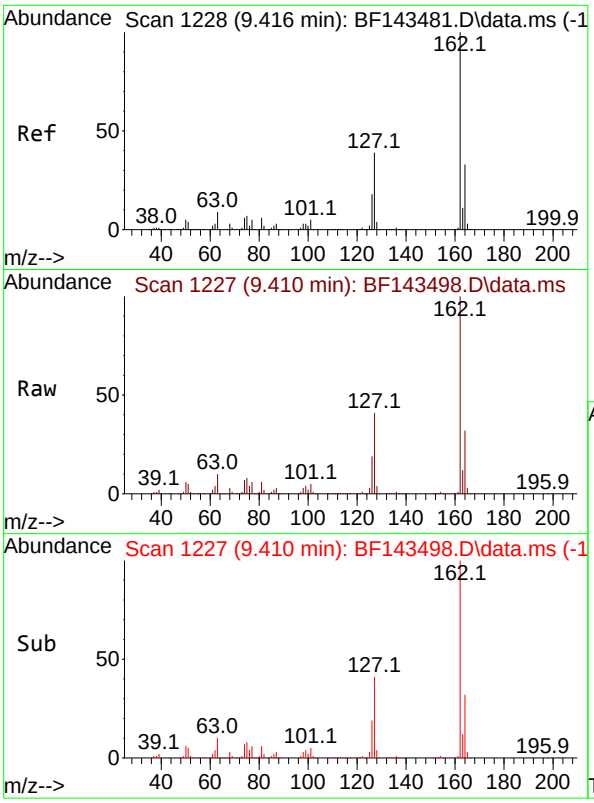


#46
1,1'-Biphenyl
Concen: 38.693 ng
RT: 9.386 min Scan# 1223
Delta R.T. -0.006 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Tgt Ion:154 Resp: 788125

Ion	Ratio	Lower	Upper
154	100		
153	40.6	20.6	60.6
76	12.7	0.0	33.0



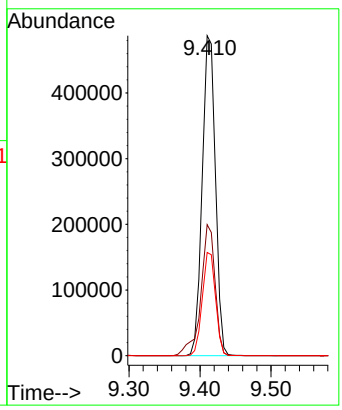


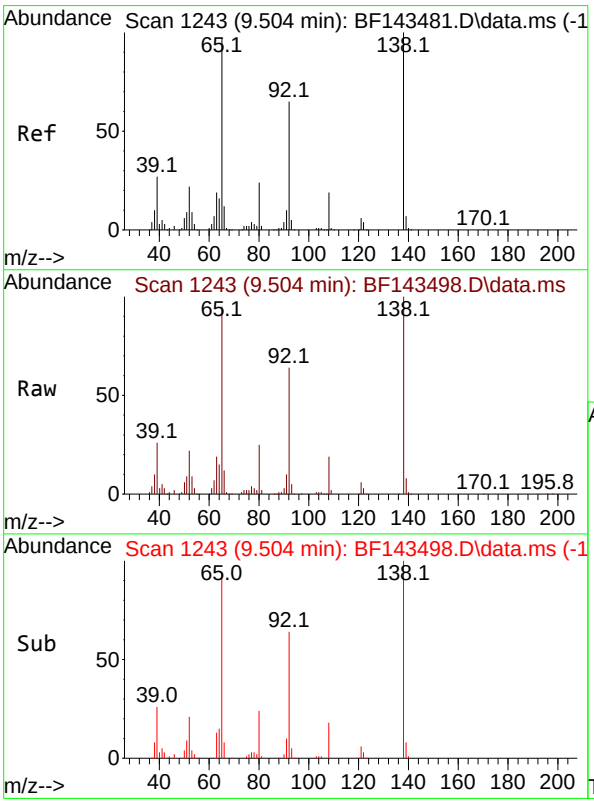
#47
2-Chloronaphthalene
Concen: 39.533 ng
RT: 9.410 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:162 Resp: 631796

Ion	Ratio	Lower	Upper
162	100		
127	41.0	31.8	47.6
164	32.2	26.4	39.6

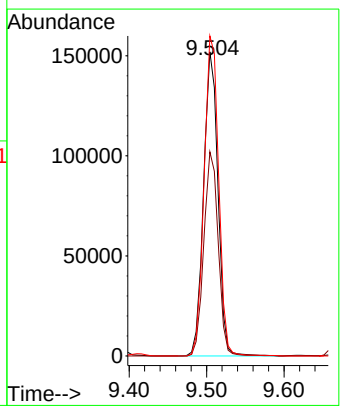


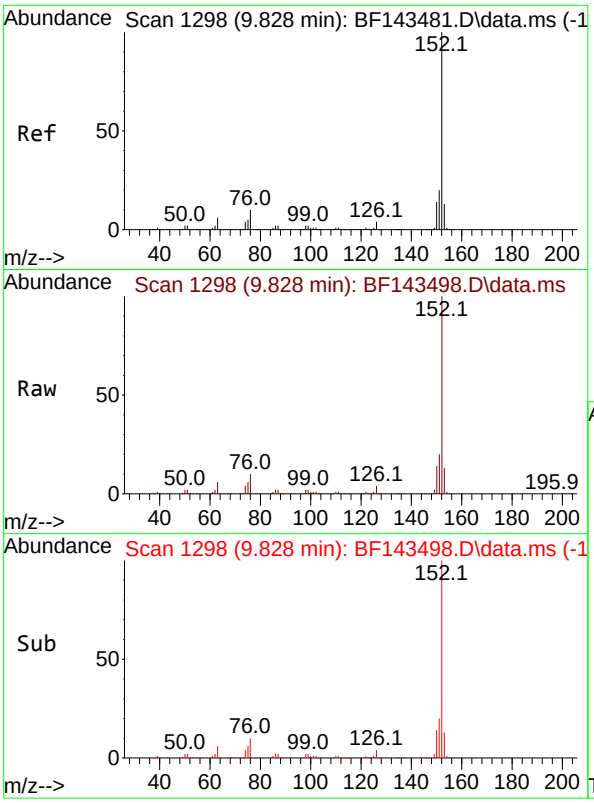


#48
2-Nitroaniline
Concen: 41.804 ng
RT: 9.504 min Scan# 1243
Delta R.T. -0.006 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Tgt Ion: 65 Resp: 195526

Ion	Ratio	Lower	Upper
65	100		
92	67.1	53.8	80.6
138	105.2	82.4	123.6



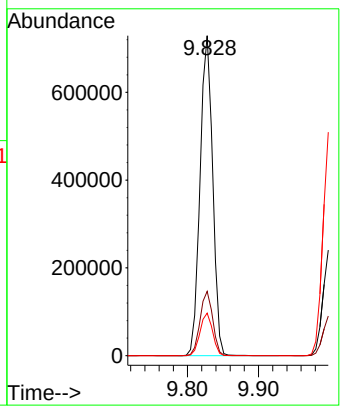


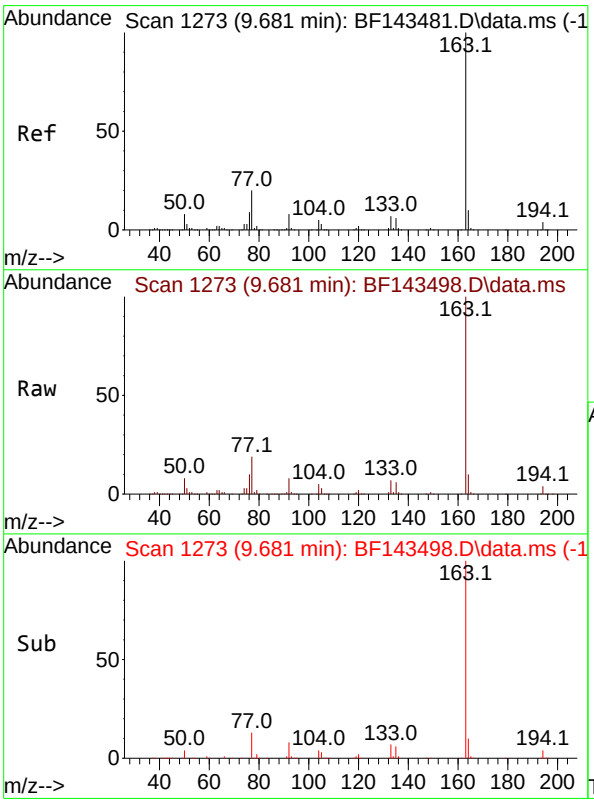
#49
Acenaphthylene
Concen: 39.486 ng
RT: 9.828 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:152 Resp: 903587

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.2	24.4
153	13.3	10.6	15.8

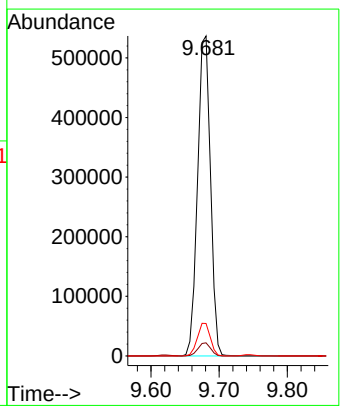


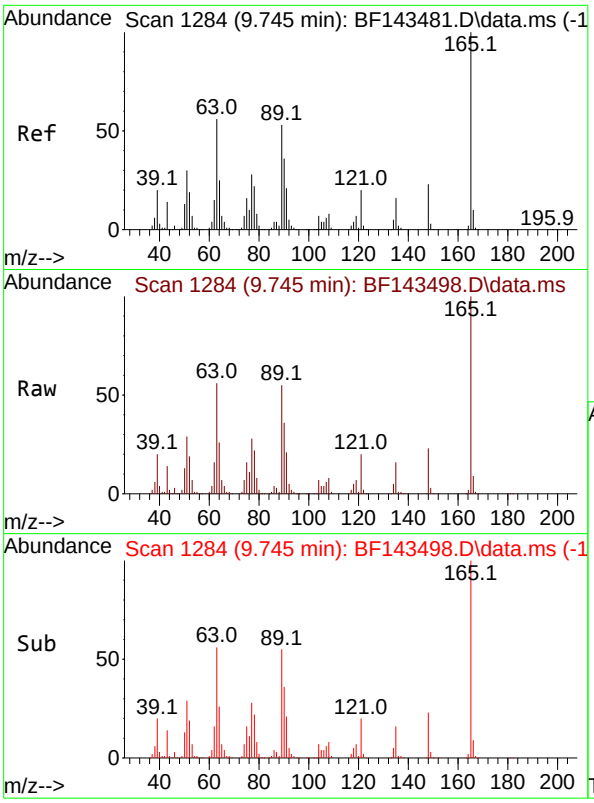


#50
Dimethylphthalate
Concen: 40.765 ng
RT: 9.681 min Scan# 1273
Delta R.T. 0.000 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Tgt Ion:163 Resp: 704558

Ion	Ratio	Lower	Upper
163	100		
194	4.1	3.4	5.0
164	10.2	8.2	12.2



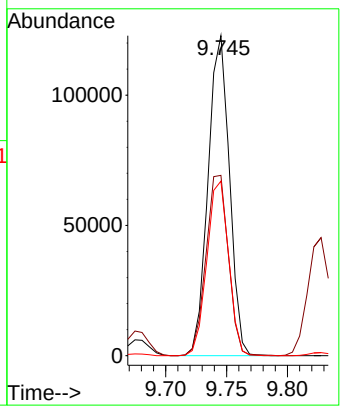


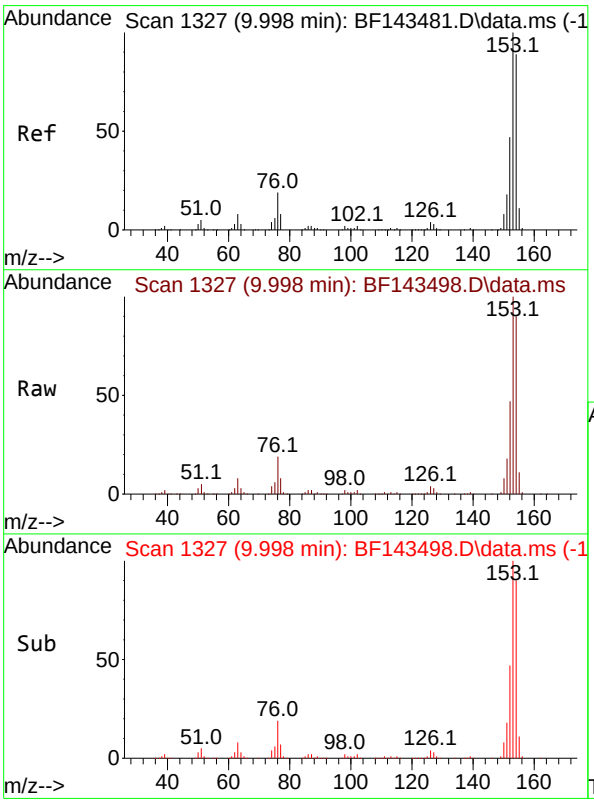
#51
2,6-Dinitrotoluene
Concen: 41.967 ng
RT: 9.745 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:165 Resp: 150329

Ion	Ratio	Lower	Upper
165	100		
63	56.4	45.0	67.6
89	54.5	42.5	63.7

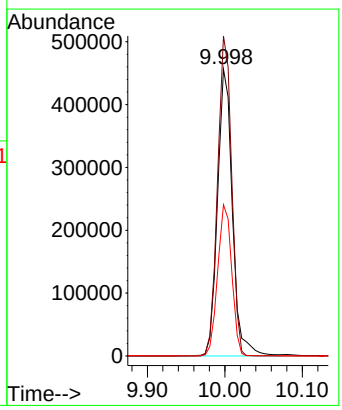


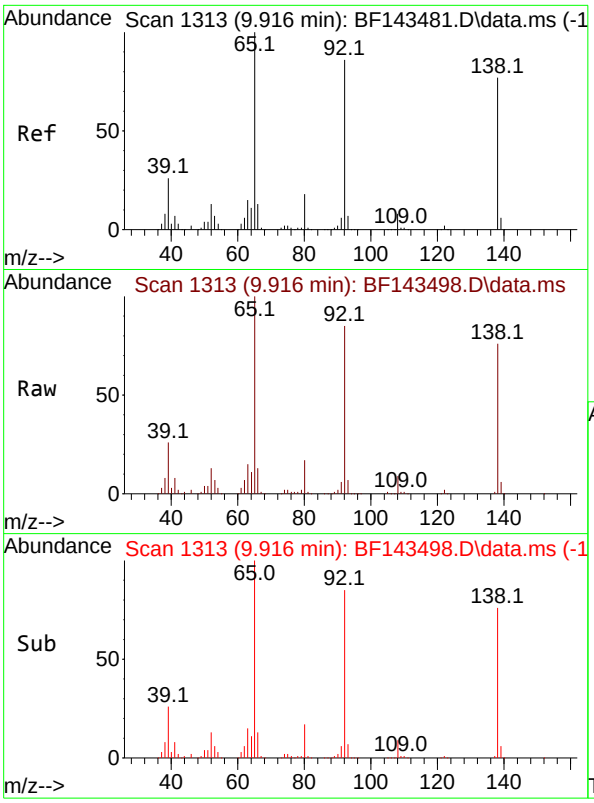


#52
Acenaphthene
Concen: 39.200 ng
RT: 9.998 min Scan# 1327
Delta R.T. -0.006 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Tgt Ion:154 Resp: 609043

Ion	Ratio	Lower	Upper
154	100		
153	111.6	89.5	134.3
152	52.7	42.5	63.7



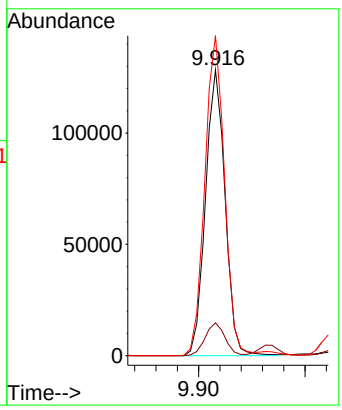


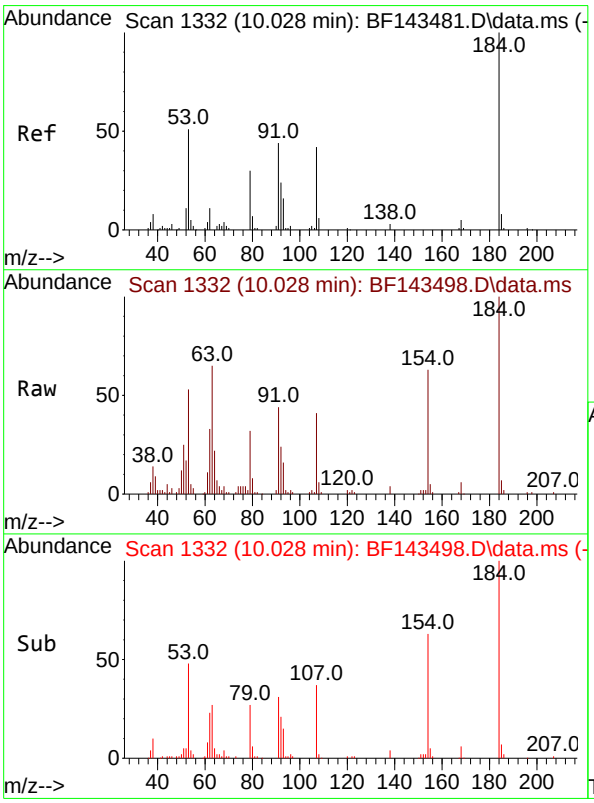
#53
3-Nitroaniline
Concen: 42.370 ng
RT: 9.916 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:138 Resp: 164001

Ion	Ratio	Lower	Upper
138	100		
108	11.5	8.6	13.0
92	112.0	89.8	134.8

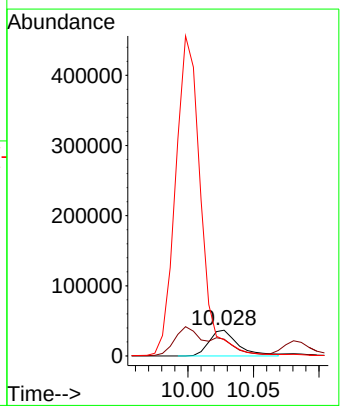


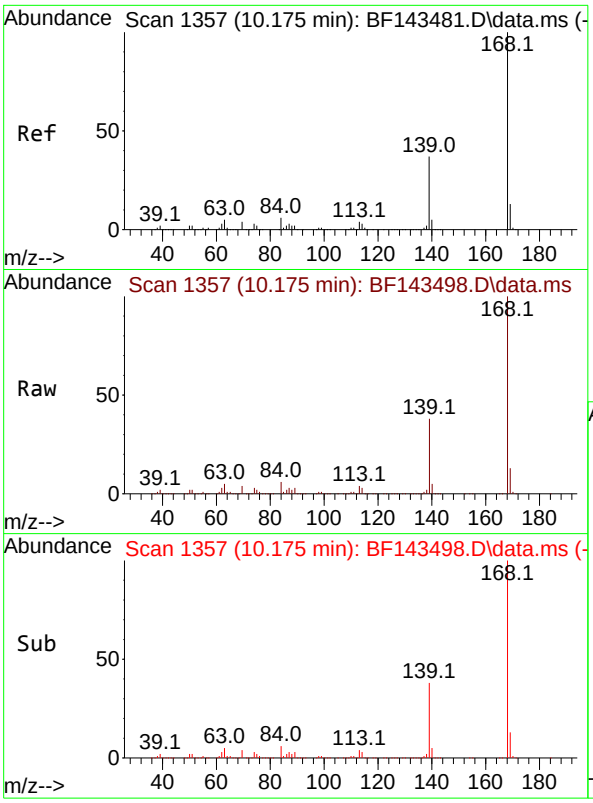


#54
2,4-Dinitrophenol
Concen: 32.946 ng
RT: 10.028 min Scan# 1332
Delta R.T. -0.000 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Tgt Ion:184 Resp: 56727

Ion	Ratio	Lower	Upper
184	100		
63	65.2	52.6	78.8
154	62.7	51.0	76.4



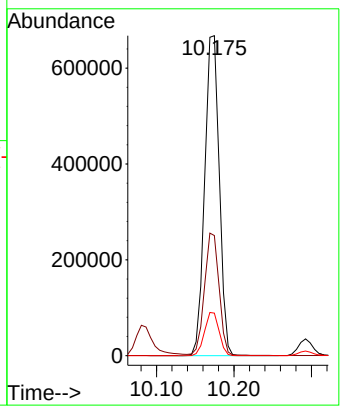


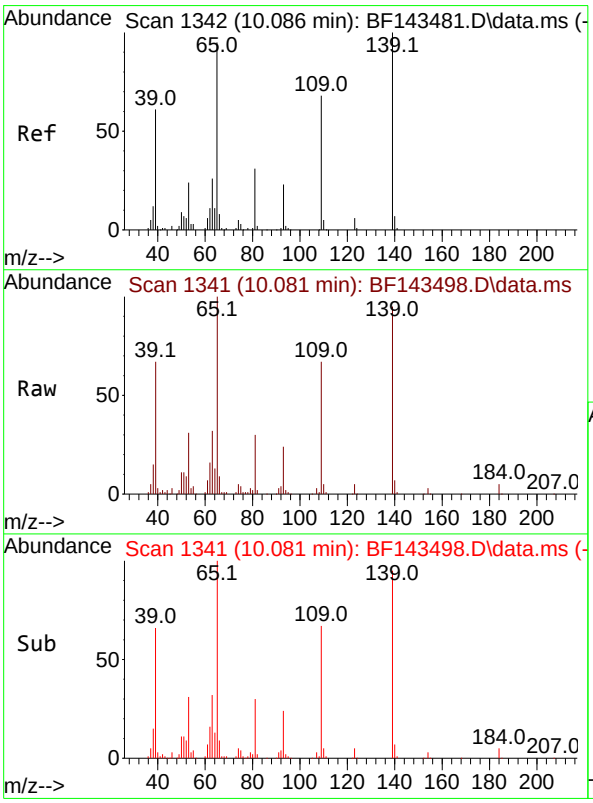
#55
Dibenzofuran
Concen: 39.338 ng
RT: 10.175 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:168 Resp: 871391

Ion	Ratio	Lower	Upper
168	100		
139	37.6	29.8	44.6
169	13.3	10.8	16.2

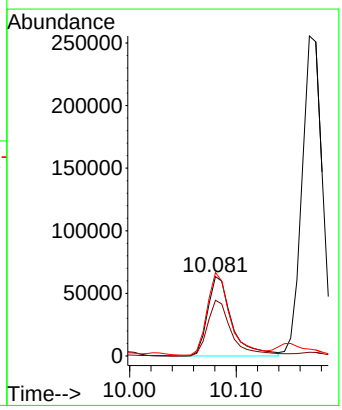


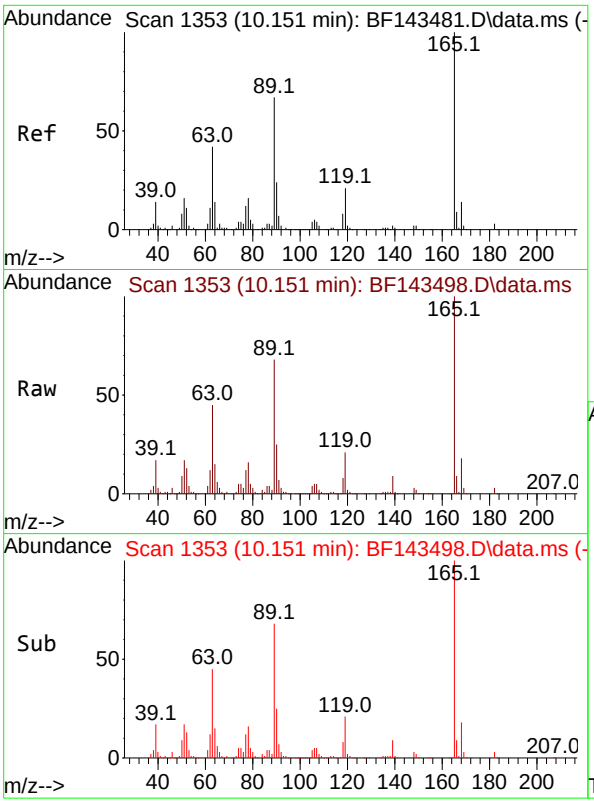


#56
4-Nitrophenol
Concen: 43.335 ng
RT: 10.081 min Scan# 1341
Delta R.T. -0.005 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Tgt Ion:139 Resp: 99803

Ion	Ratio	Lower	Upper
139	100		
109	70.1	48.2	88.2
65	105.2	75.8	115.8



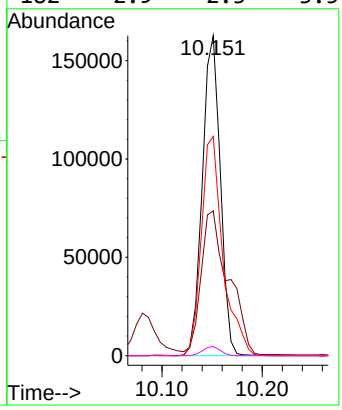


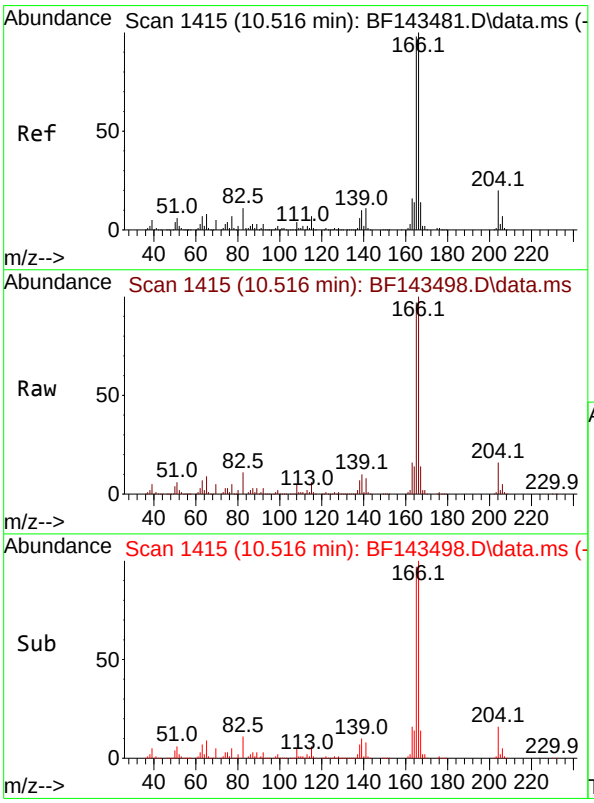
#57
2,4-Dinitrotoluene
Concen: 42.505 ng
RT: 10.151 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:165 Resp: 203299

Ion	Ratio	Lower	Upper
165	100		
63	45.2	34.9	52.3
89	68.5	53.3	79.9
182	2.9	2.3	3.5

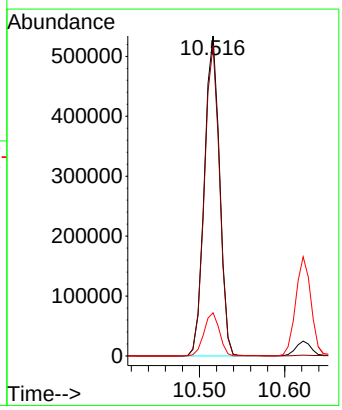


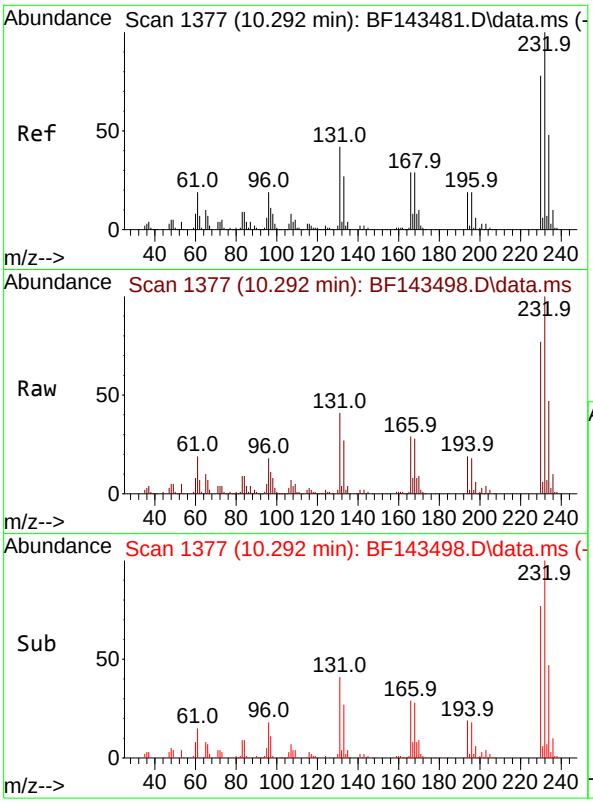


#58
Fluorene
Concen: 38.909 ng
RT: 10.516 min Scan# 1415
Delta R.T. -0.006 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Tgt Ion:166 Resp: 663350

Ion	Ratio	Lower	Upper
166	100		
165	97.1	78.3	117.5
167	13.5	11.0	16.4



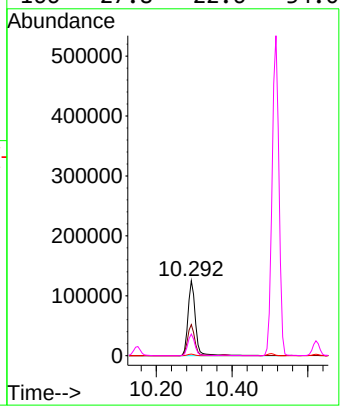


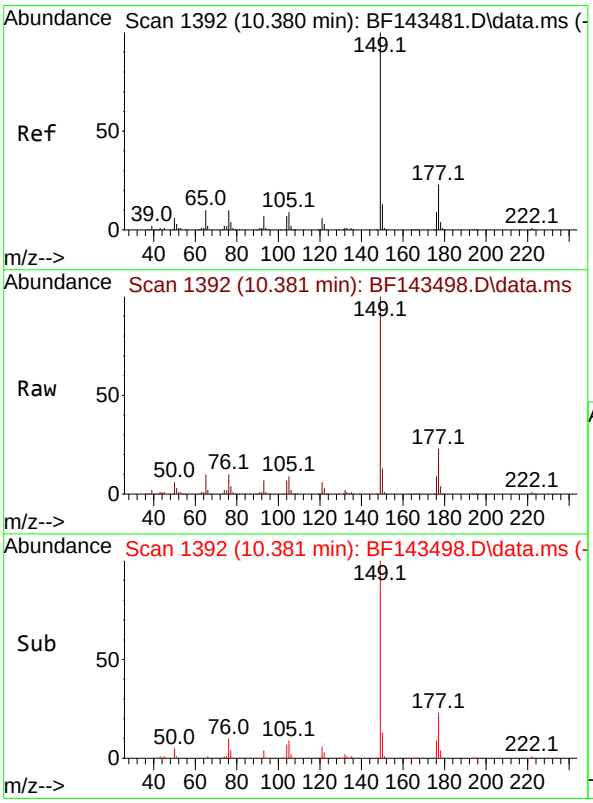
#59
2,3,4,6-Tetrachlorophenol
Concen: 41.458 ng
RT: 10.292 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:232 Resp: 169934

Ion	Ratio	Lower	Upper
232	100		
131	40.3	32.7	49.1
130	1.9	1.6	2.4
166	27.8	22.6	34.0

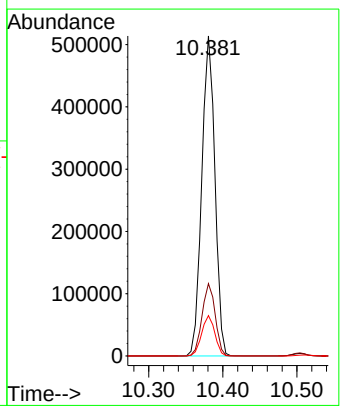


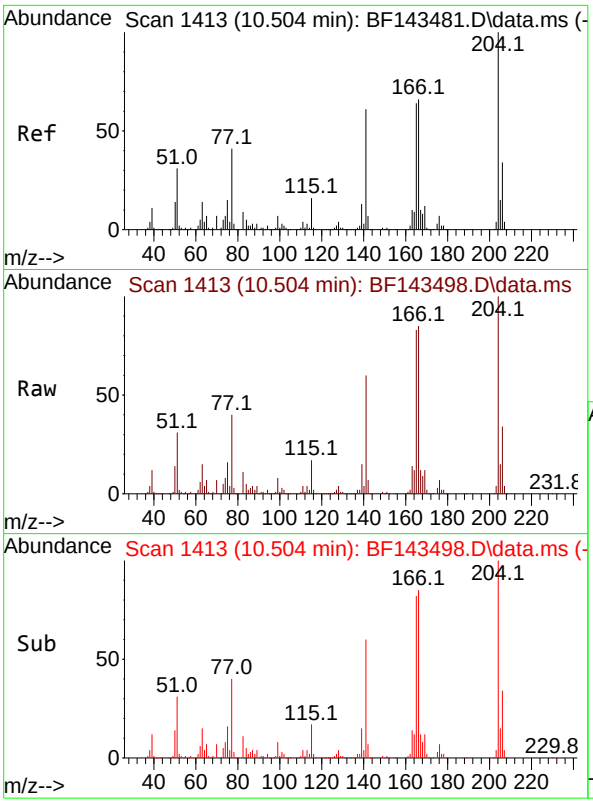


#60
Diethylphthalate
Concen: 40.873 ng
RT: 10.381 min Scan# 1392
Delta R.T. -0.006 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Tgt Ion:149 Resp: 633362

Ion	Ratio	Lower	Upper
149	100		
177	22.6	18.3	27.5
150	12.6	10.3	15.5



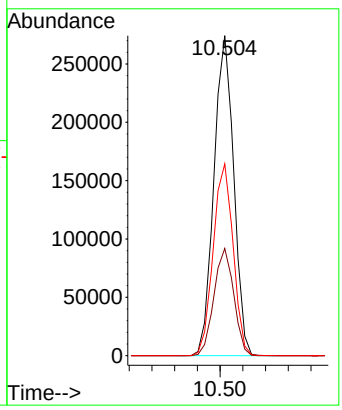


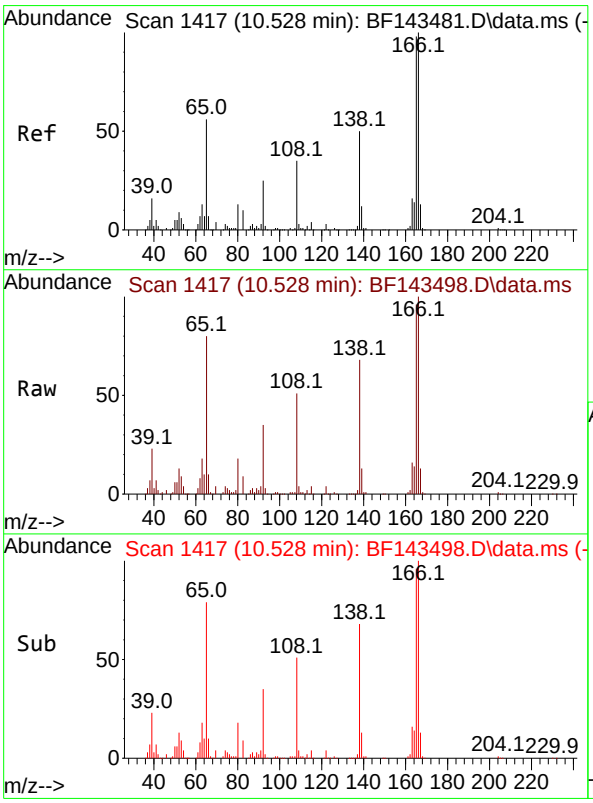
#61
4-Chlorophenyl-phenylether
Concen: 38.920 ng
RT: 10.504 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:204 Resp: 331842

Ion	Ratio	Lower	Upper
204	100		
206	33.5	27.0	40.4
141	60.0	48.7	73.1

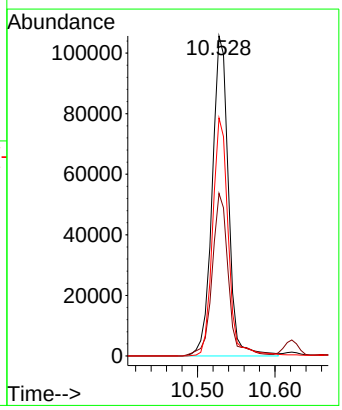


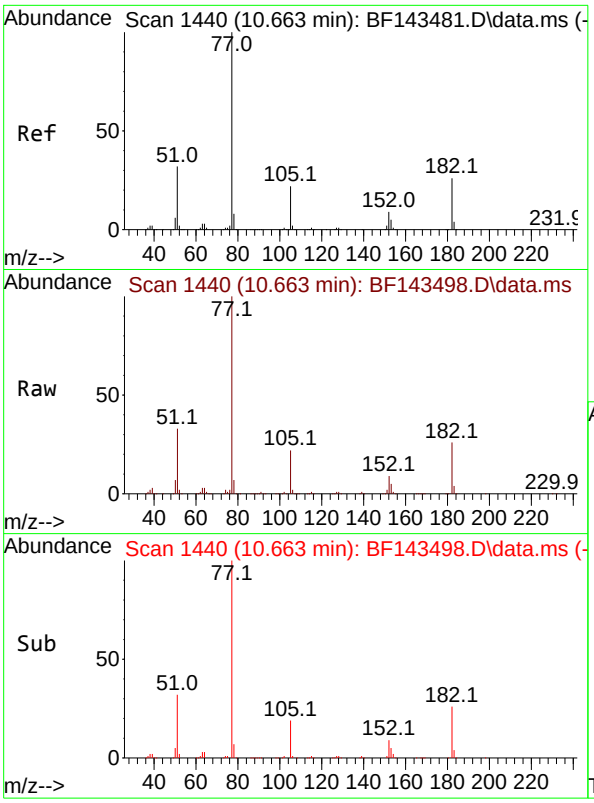


#62
4-Nitroaniline
Concen: 43.337 ng
RT: 10.528 min Scan# 1417
Delta R.T. -0.012 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Tgt Ion:138 Resp: 154077

Ion	Ratio	Lower	Upper
138	100		
92	50.8	29.3	69.3
108	74.4	50.7	90.7



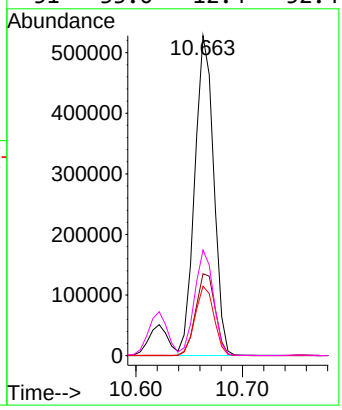


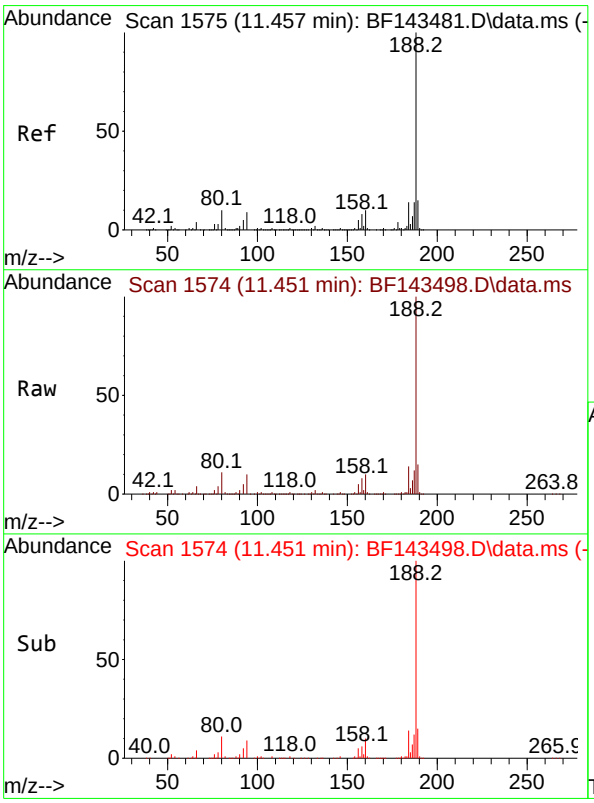
#63
Azobenzene
Concen: 40.670 ng
RT: 10.663 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 77 Resp: 653457

Ion	Ratio	Lower	Upper
77	100		
182	25.6	6.2	46.2
105	21.7	2.2	42.2
51	33.0	12.4	52.4

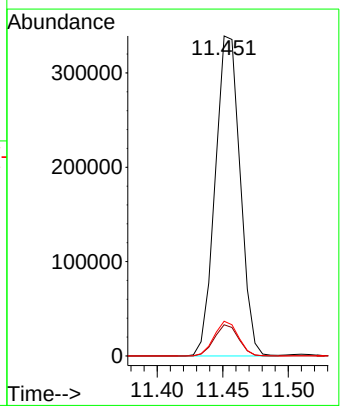


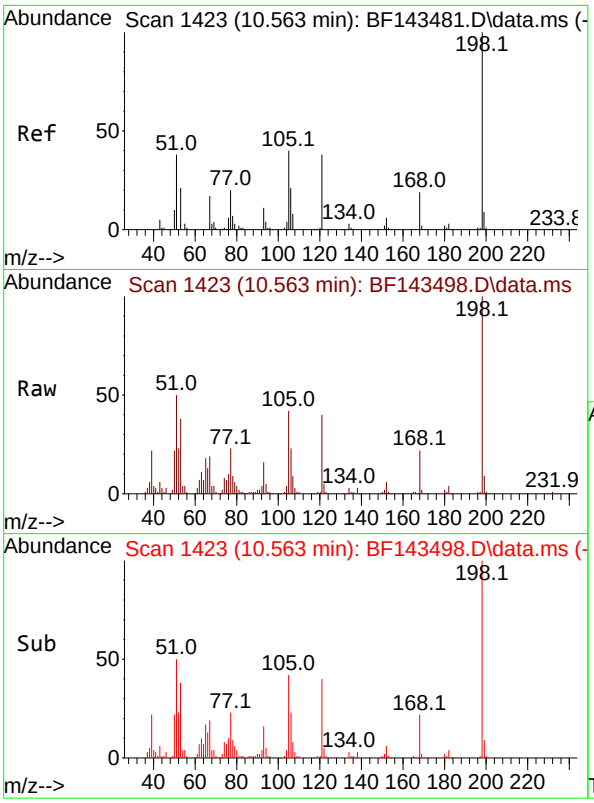


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.451 min Scan# 1574
Delta R.T. -0.006 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Tgt Ion:188 Resp: 448105

Ion	Ratio	Lower	Upper
188	100		
94	9.7	7.4	11.2
80	10.9	8.2	12.4



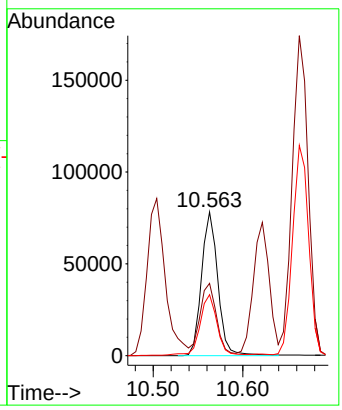


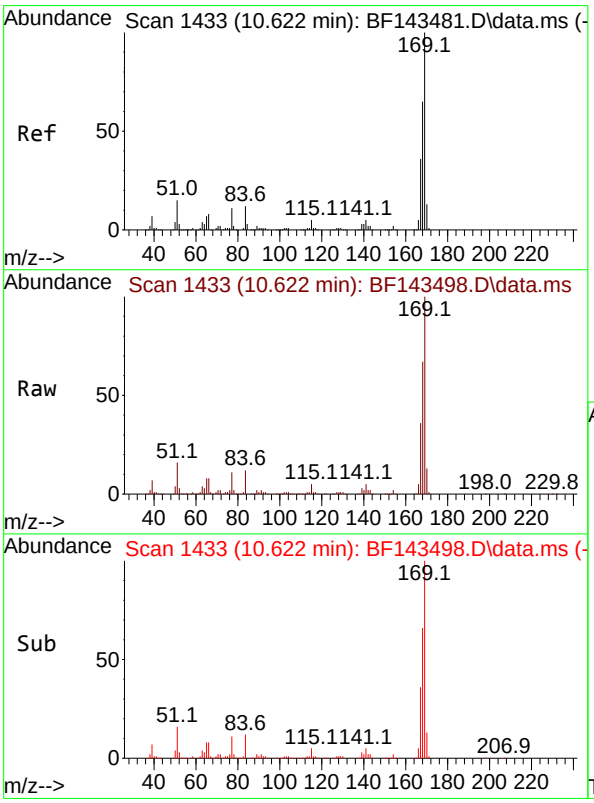
#65
4,6-Dinitro-2-methylphenol
Concen: 39.155 ng
RT: 10.563 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:198 Resp: 98928

Ion	Ratio	Lower	Upper
198	100		
51	50.4	29.6	69.6
105	42.4	21.5	61.5

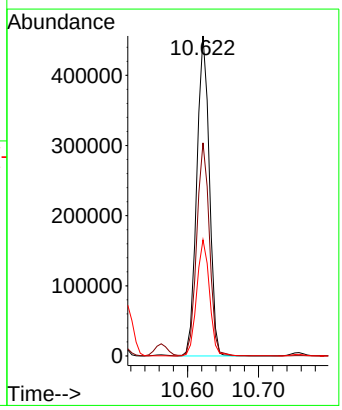


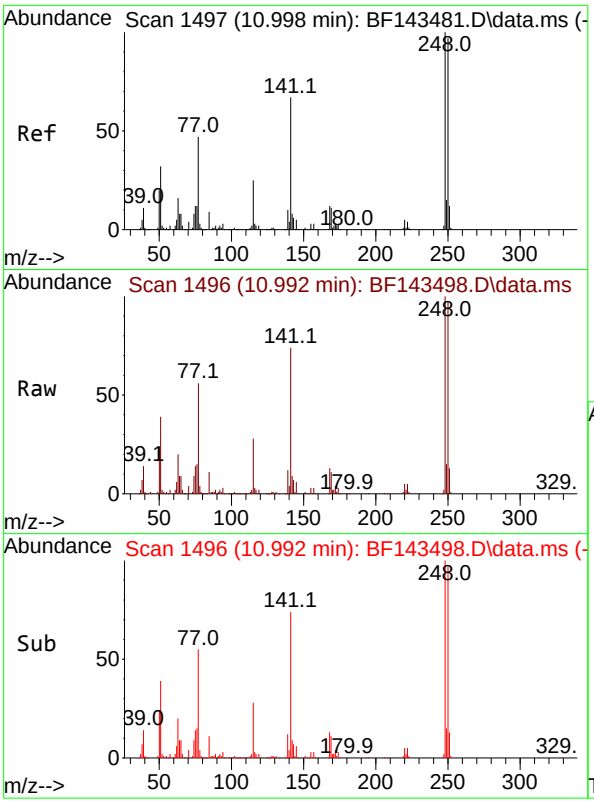


#66
n-Nitrosodiphenylamine
Concen: 38.990 ng
RT: 10.622 min Scan# 1433
Delta R.T. -0.006 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Tgt Ion:169 Resp: 562277

Ion	Ratio	Lower	Upper
169	100		
168	66.6	52.4	78.6
167	36.3	28.9	43.3



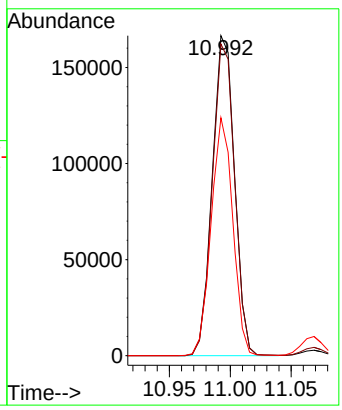


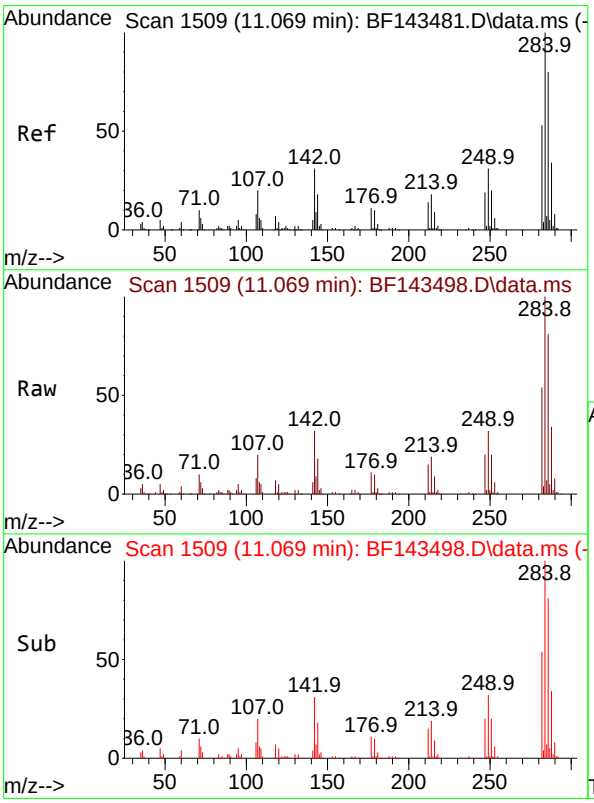
#67
4-Bromophenyl-phenylether
Concen: 39.734 ng
RT: 10.992 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:248 Resp: 212441

Ion	Ratio	Lower	Upper
248	100		
250	97.4	77.8	116.8
141	74.4	54.0	81.0

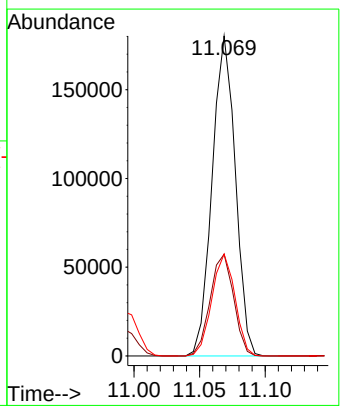


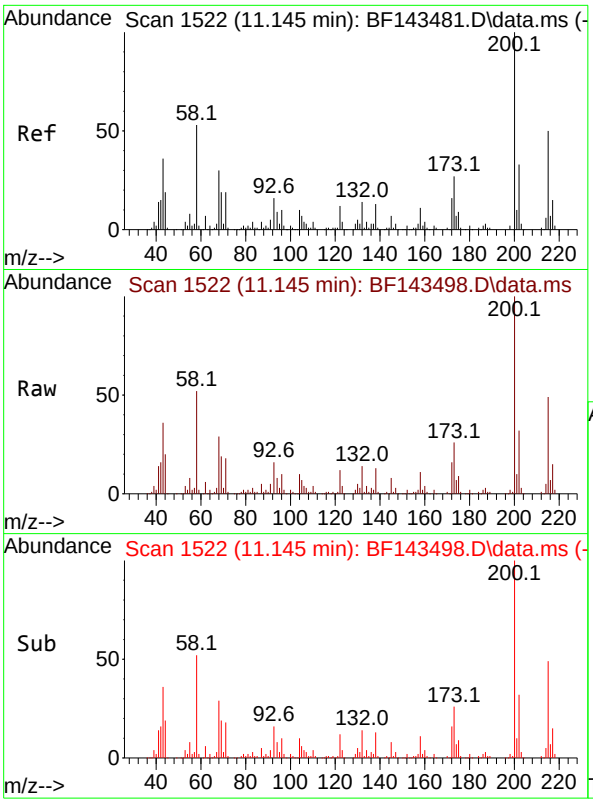


#68
Hexachlorobenzene
Concen: 38.425 ng
RT: 11.069 min Scan# 1509
Delta R.T. -0.006 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Tgt Ion:284 Resp: 221451

Ion	Ratio	Lower	Upper
284	100		
142	31.8	24.4	36.6
249	31.9	25.0	37.6



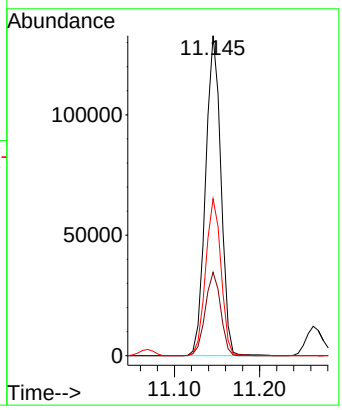


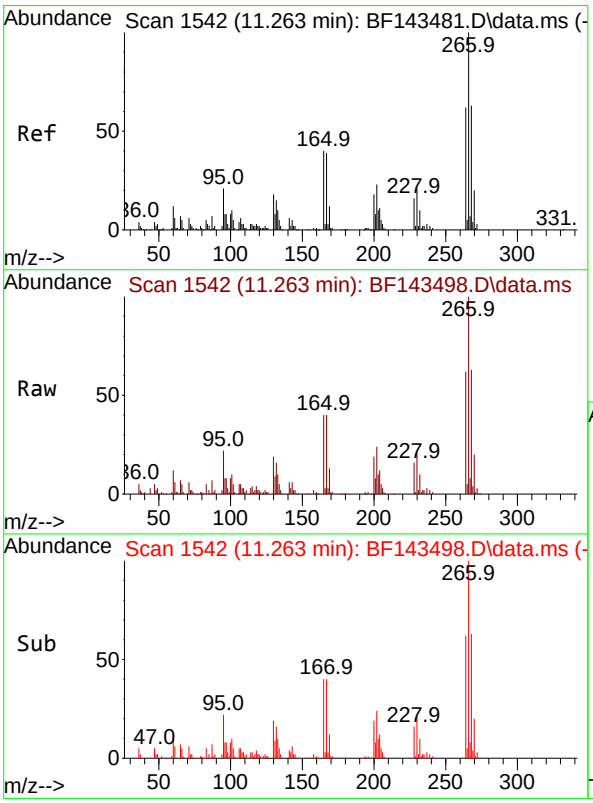
#69
Atrazine
Concen: 44.605 ng
RT: 11.145 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:200 Resp: 166044

Ion	Ratio	Lower	Upper
200	100		
173	26.1	6.9	46.9
215	49.1	30.0	70.0

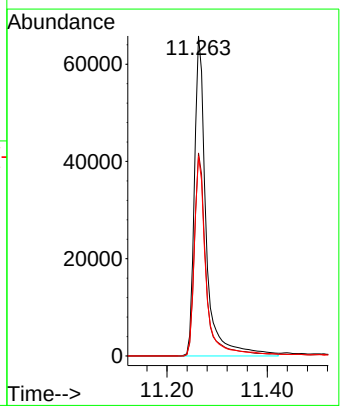


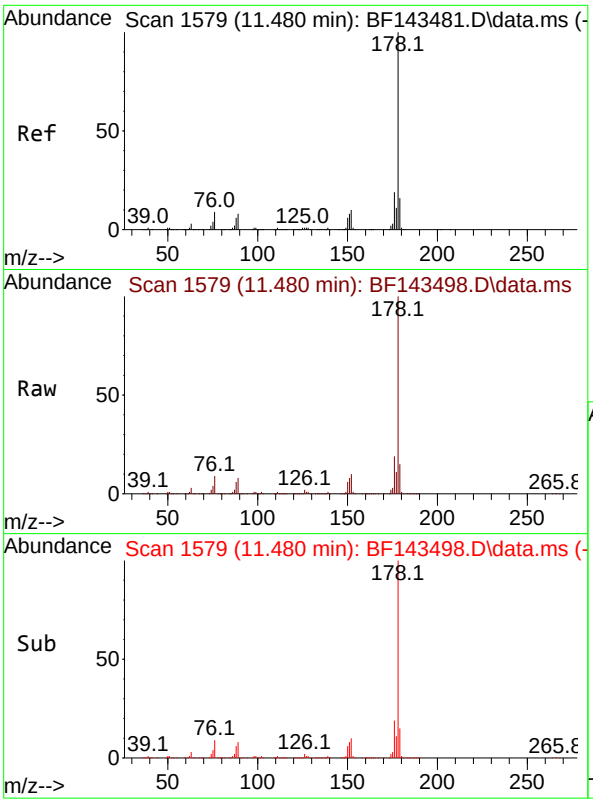


#70
Pentachlorophenol
Concen: 40.559 ng
RT: 11.263 min Scan# 1542
Delta R.T. -0.006 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Tgt Ion:266 Resp: 107054

Ion	Ratio	Lower	Upper
266	100		
268	63.4	50.5	75.7
264	62.4	49.8	74.8



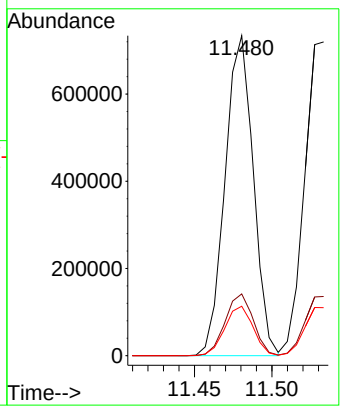


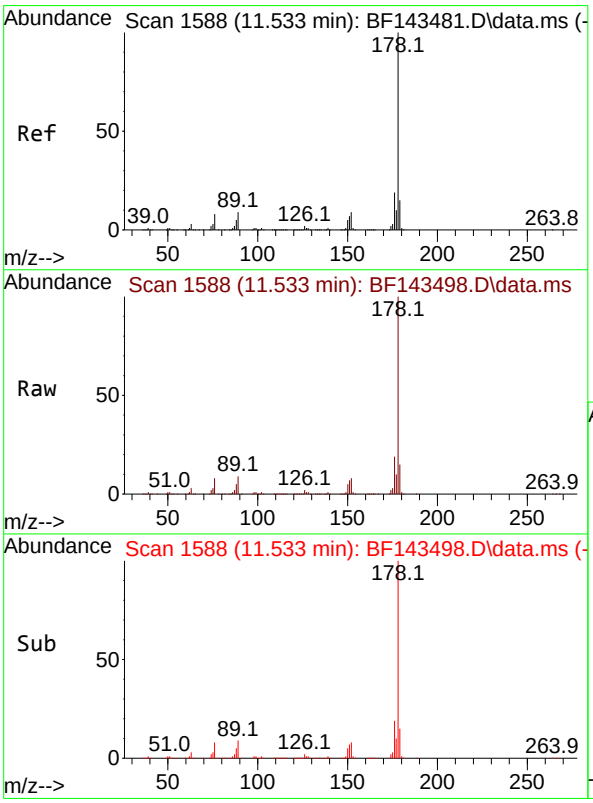
#71
Phenanthrene
Concen: 38.800 ng
RT: 11.480 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:178 Resp: 931062

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.5	23.3
179	15.5	12.5	18.7

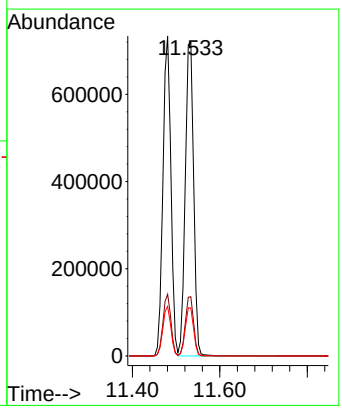


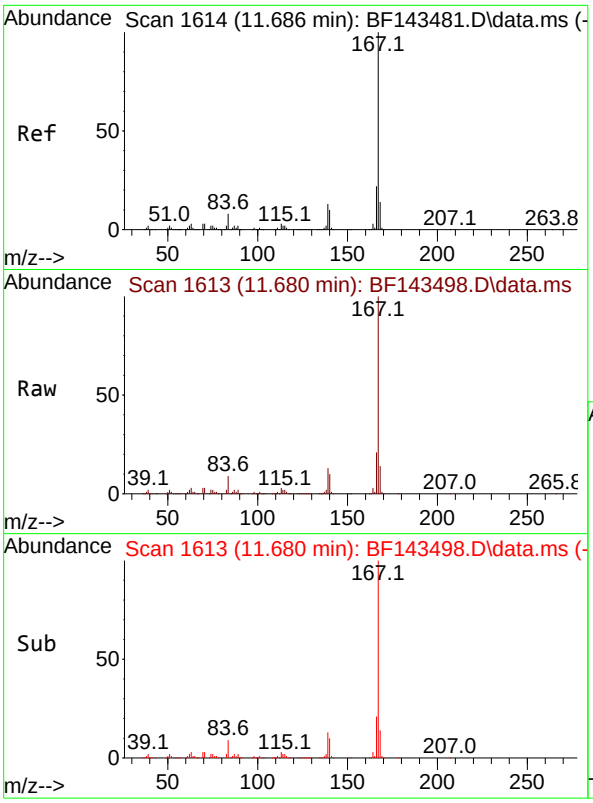


#72
Anthracene
Concen: 39.041 ng
RT: 11.533 min Scan# 1588
Delta R.T. 0.000 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Tgt Ion:178 Resp: 949077

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.0	22.4
179	15.3	12.3	18.5



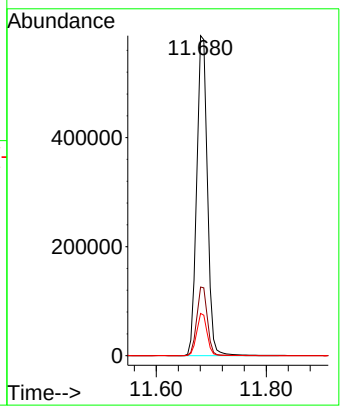


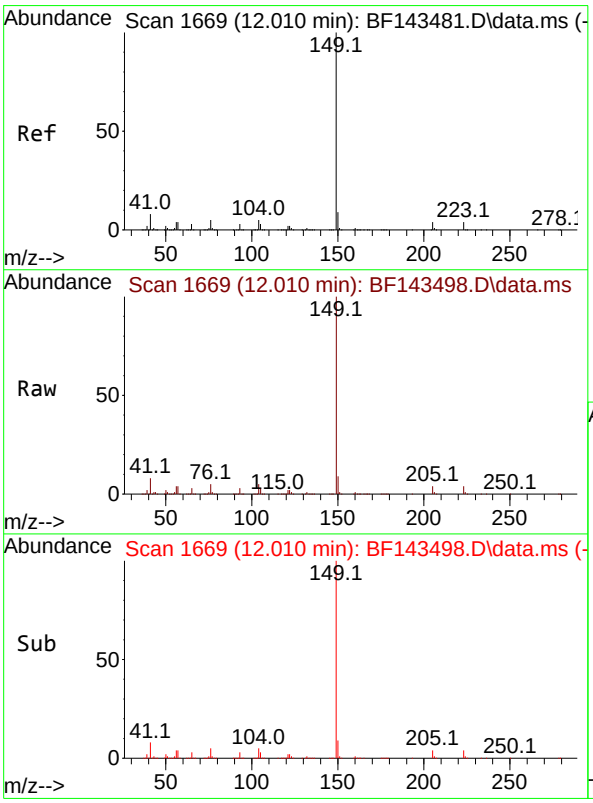
#73
Carbazole
Concen: 39.926 ng
RT: 11.680 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:167 Resp: 795296

Ion	Ratio	Lower	Upper
167	100		
166	21.5	17.3	25.9
139	13.2	10.0	15.0

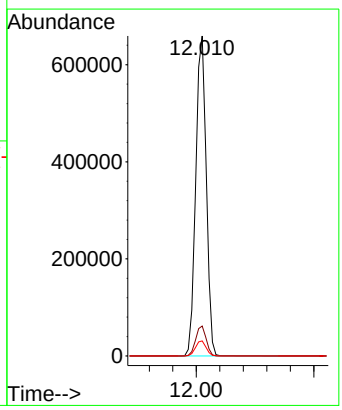


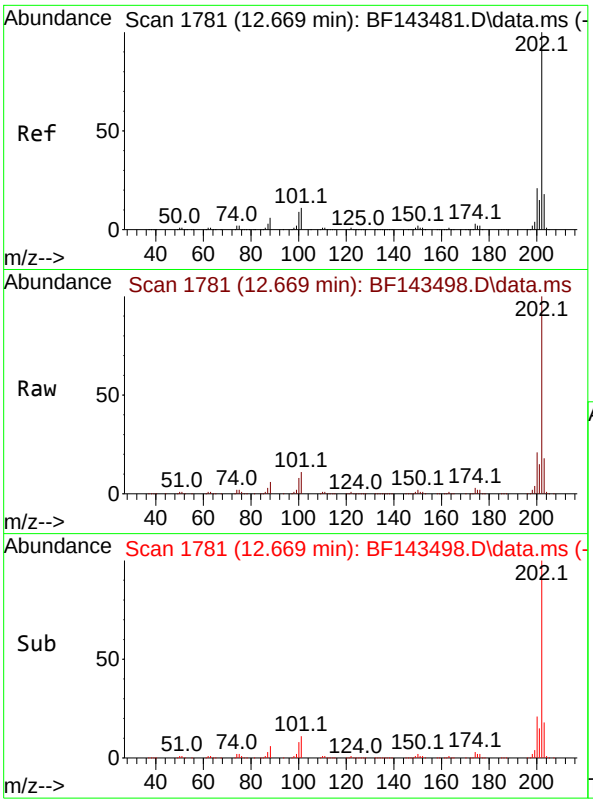


#74
Di-n-butylphthalate
Concen: 43.920 ng
RT: 12.010 min Scan# 1669
Delta R.T. 0.000 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Tgt Ion:149 Resp: 816139

Ion	Ratio	Lower	Upper
149	100		
150	9.3	7.2	10.8
104	4.7	3.6	5.4



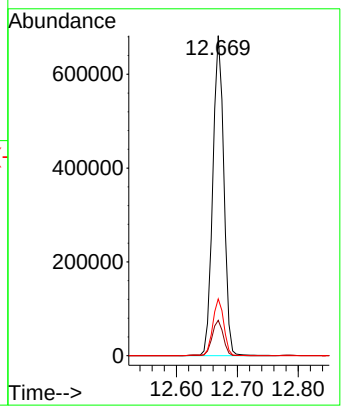


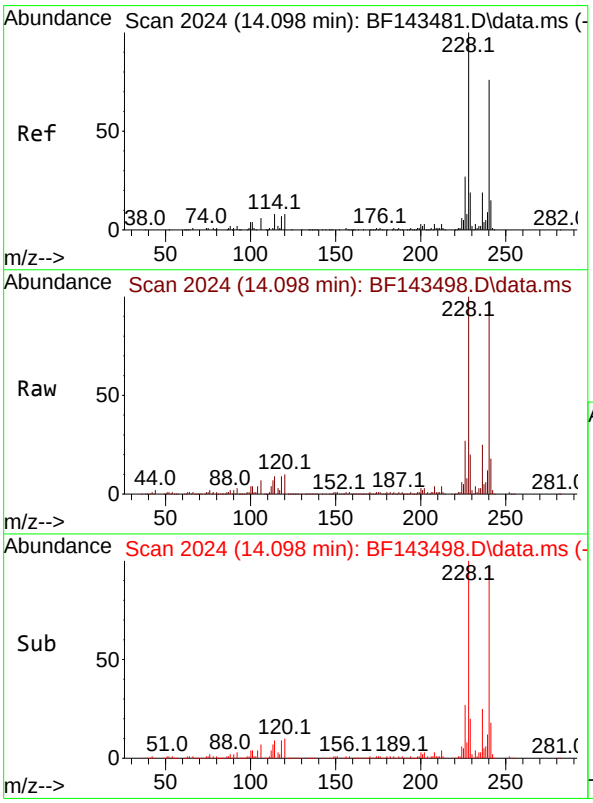
#75
Fluoranthene
Concen: 40.050 ng
RT: 12.669 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:202 Resp: 862364

Ion	Ratio	Lower	Upper
202	100		
101	11.1	0.0	31.3
203	17.7	0.0	37.9

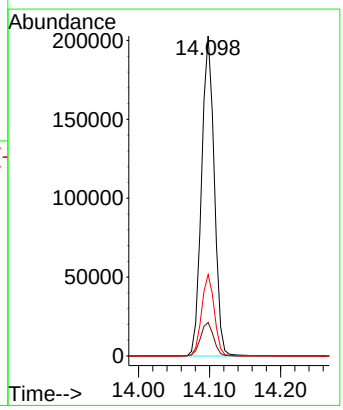


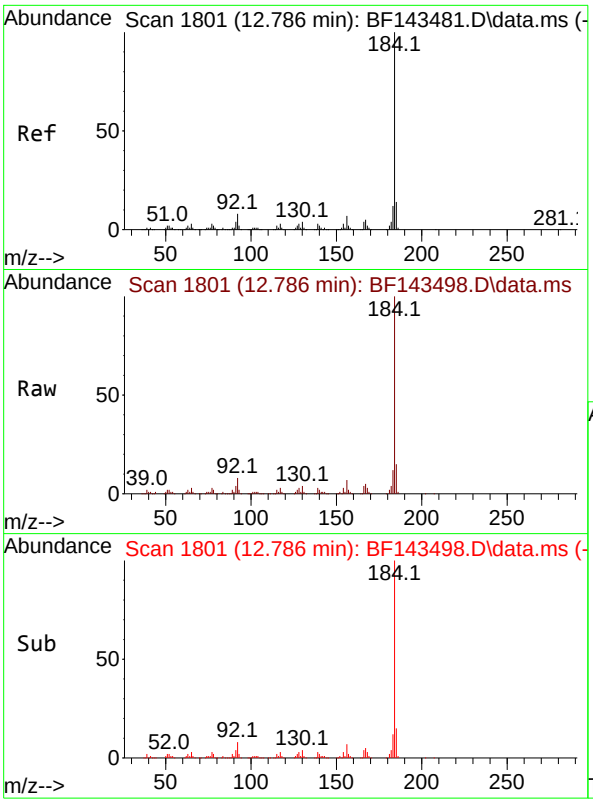


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.098 min Scan# 2024
Delta R.T. -0.006 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Tgt Ion:240 Resp: 253253

Ion	Ratio	Lower	Upper
240	100		
120	10.4	8.6	12.8
236	25.4	20.4	30.6



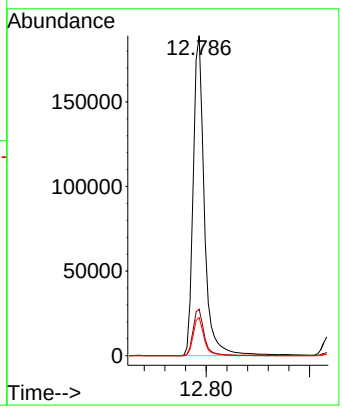


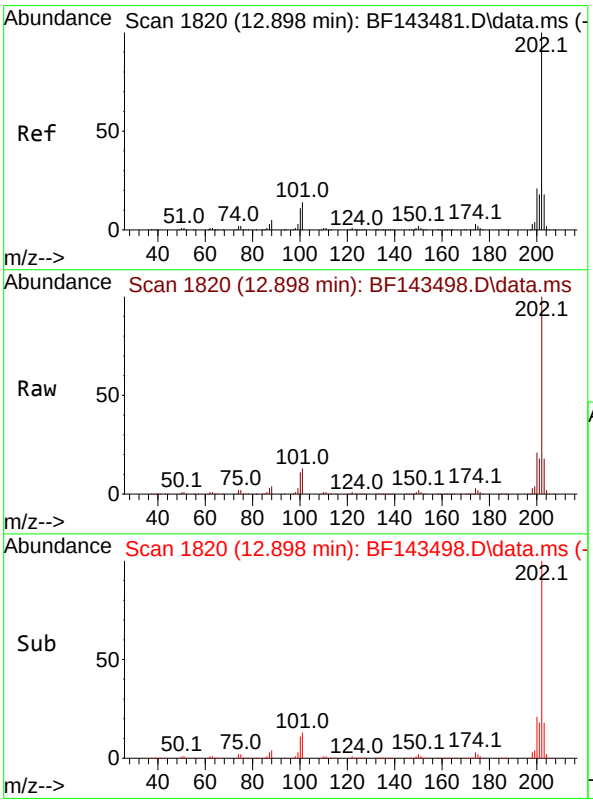
#77
Benzidine
Concen: 46.044 ng
RT: 12.786 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:184 Resp: 284041

Ion	Ratio	Lower	Upper
184	100		
185	14.6	11.3	16.9
183	11.9	9.5	14.3

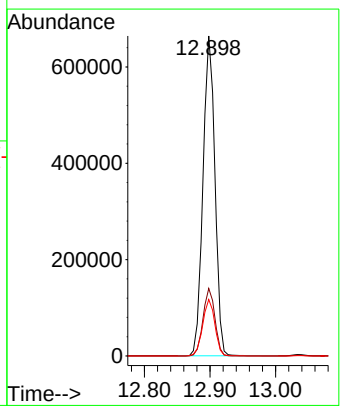


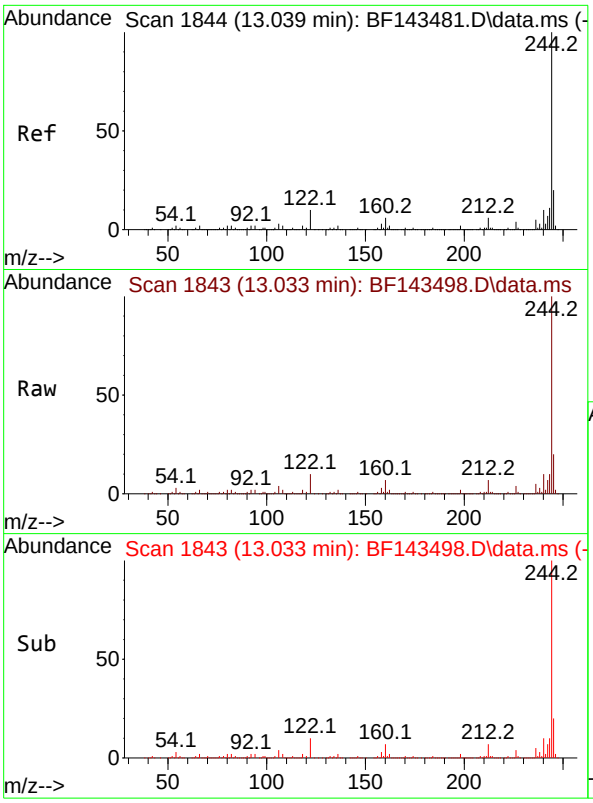


#78
Pyrene
Concen: 40.485 ng
RT: 12.898 min Scan# 1820
Delta R.T. -0.006 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Tgt Ion:202 Resp: 843384

Ion	Ratio	Lower	Upper
202	100		
200	21.1	17.0	25.4
203	17.7	14.3	21.5



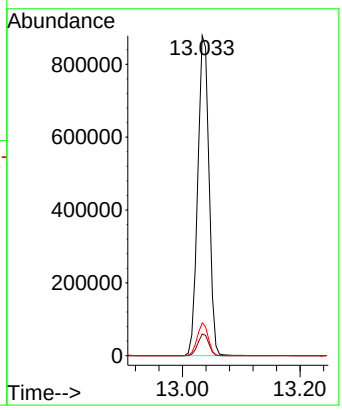


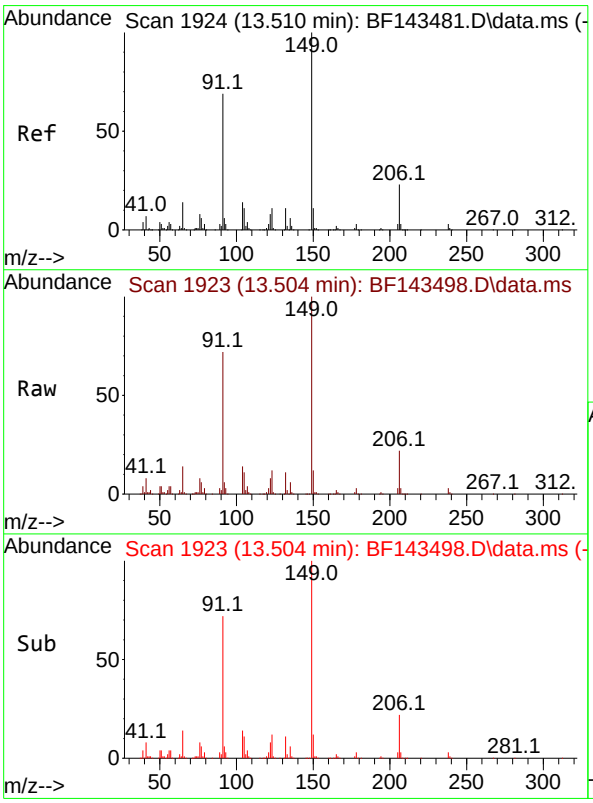
#79
Terphenyl-d14
Concen: 80.326 ng
RT: 13.033 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:244 Resp: 1165752

Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.2	7.8
122	10.3	7.9	11.9

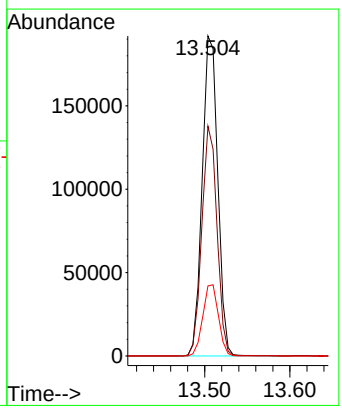


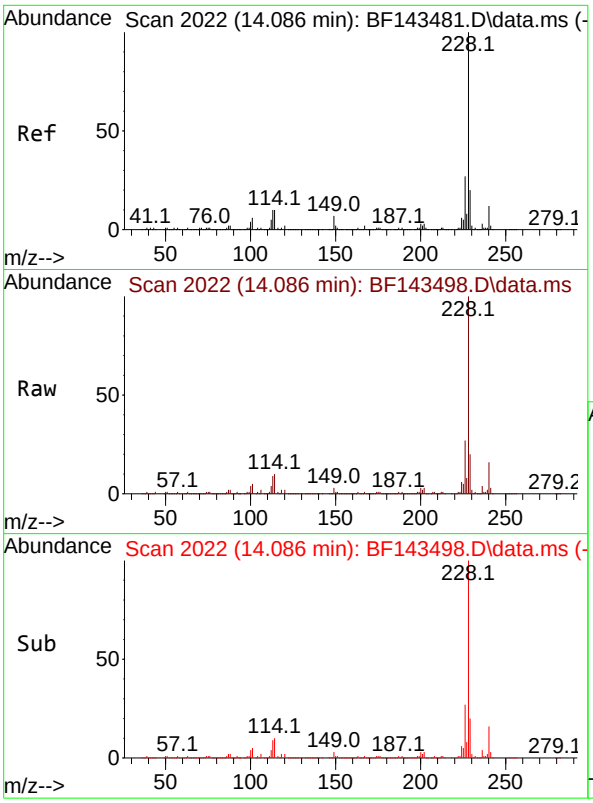


#80
Butylbenzylphthalate
Concen: 42.677 ng
RT: 13.504 min Scan# 1923
Delta R.T. -0.006 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Tgt Ion:149 Resp: 242873

Ion	Ratio	Lower	Upper
149	100		
91	71.8	55.3	82.9
206	21.9	18.2	27.4



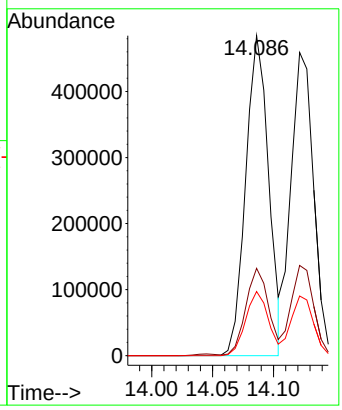


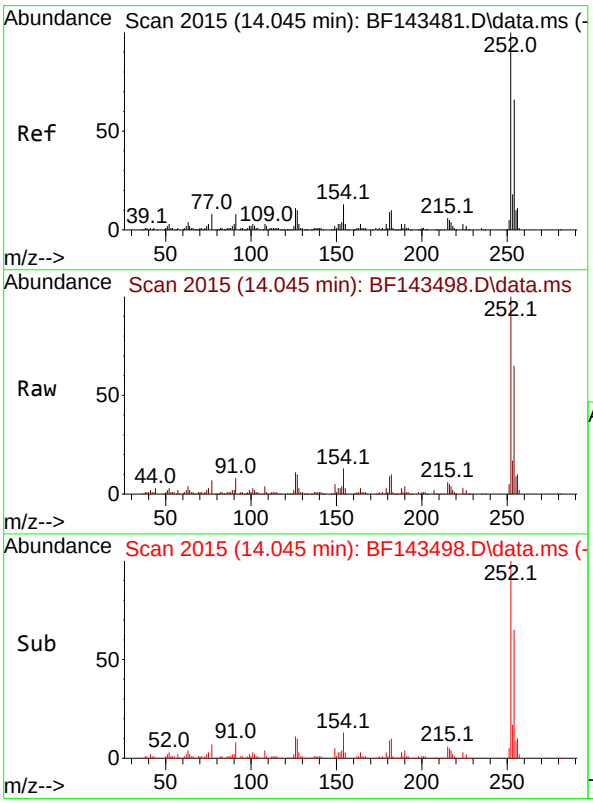
#81
Benzo(a)anthracene
Concen: 38.965 ng
RT: 14.086 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:228 Resp: 635317

Ion	Ratio	Lower	Upper
228	100		
226	27.3	21.7	32.5
229	20.1	15.7	23.5

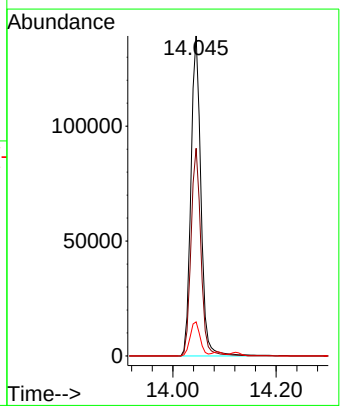


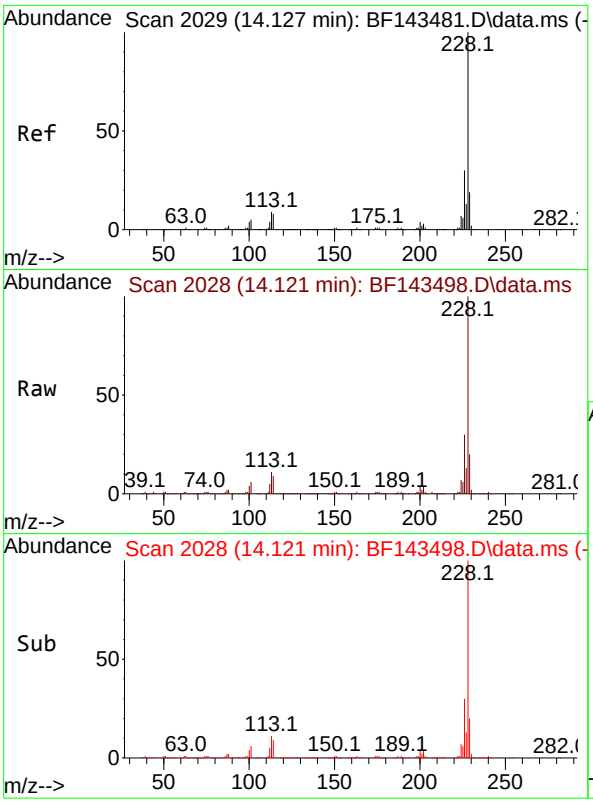


#82
3,3'-Dichlorobenzidine
Concen: 40.076 ng
RT: 14.045 min Scan# 2015
Delta R.T. 0.000 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Tgt Ion:252 Resp: 187129

Ion	Ratio	Lower	Upper
252	100		
254	64.9	52.6	79.0
126	10.7	8.7	13.1



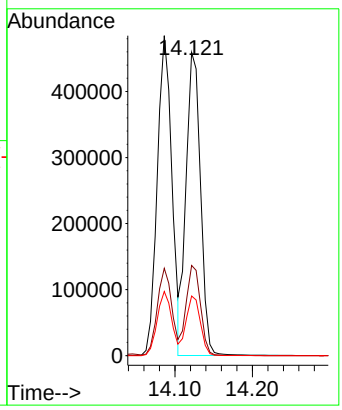


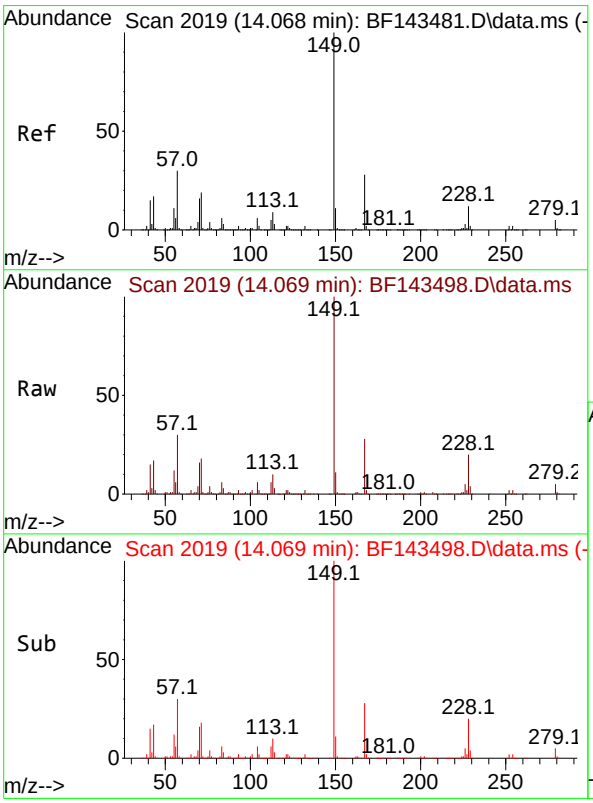
#83
Chrysene
Concen: 40.656 ng
RT: 14.121 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:228 Resp: 595706

Ion	Ratio	Lower	Upper
228	100		
226	29.8	23.7	35.5
229	19.7	15.7	23.5

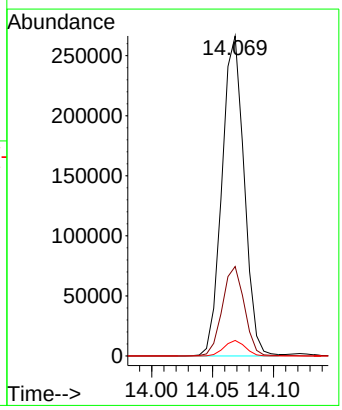


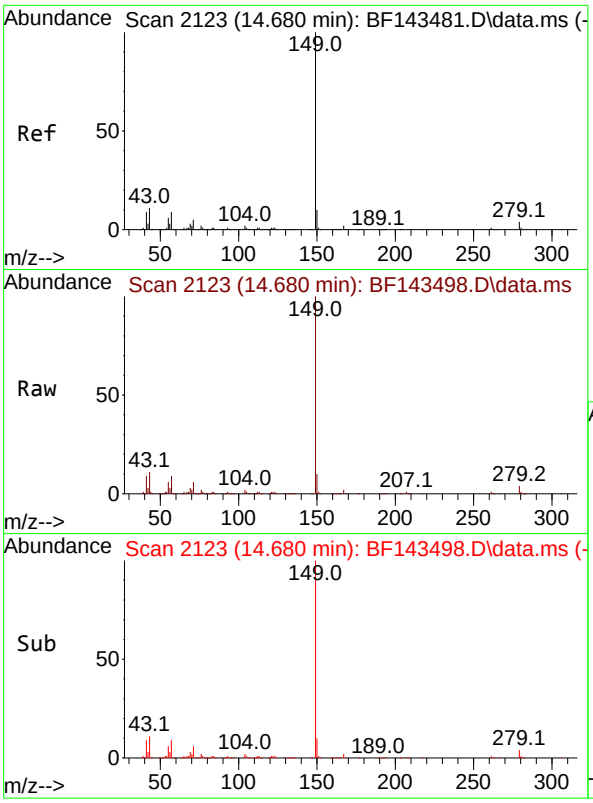


#84
Bis(2-ethylhexyl)phthalate
Concen: 38.980 ng
RT: 14.069 min Scan# 2019
Delta R.T. 0.000 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Tgt Ion:149 Resp: 337867

Ion	Ratio	Lower	Upper
149	100		
167	28.0	22.2	33.2
279	4.8	3.6	5.4



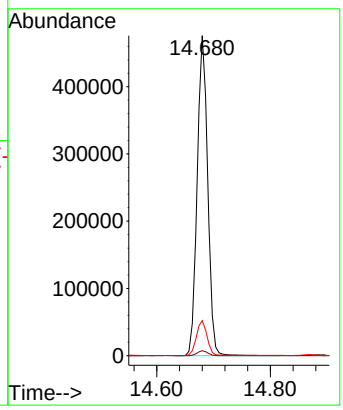


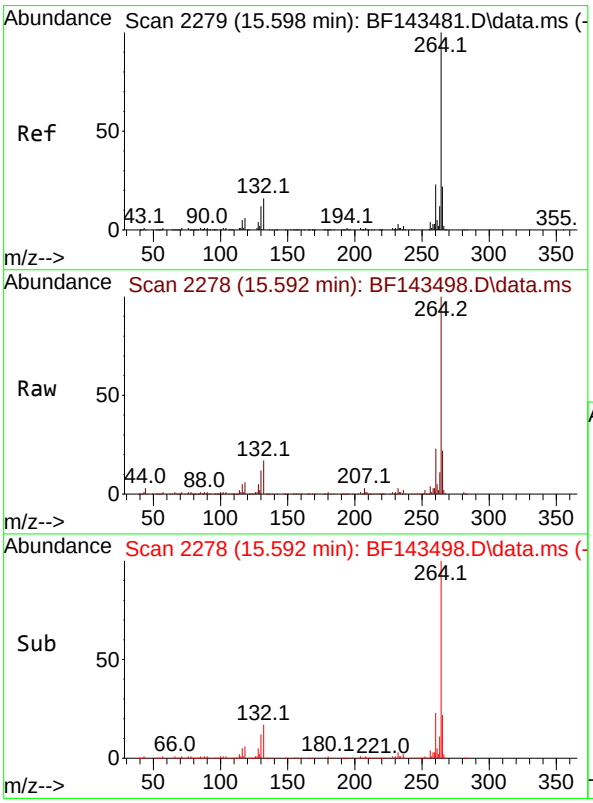
#85
Di-n-octyl phthalate
Concen: 38.327 ng
RT: 14.680 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:149 Resp: 615416

Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.2	1.8
43	11.0	8.5	12.7

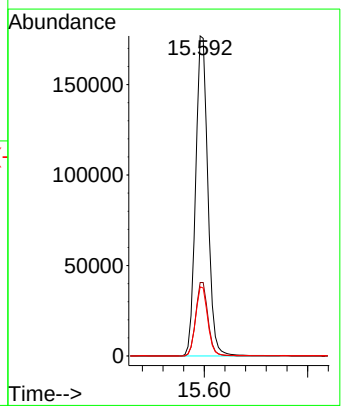


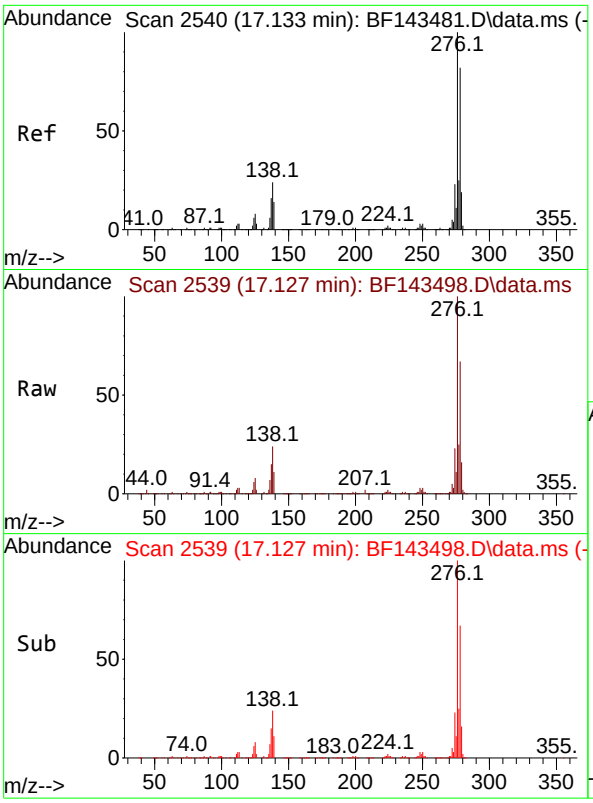


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.592 min Scan# 2278
Delta R.T. -0.006 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Tgt Ion:264 Resp: 290056

Ion	Ratio	Lower	Upper
264	100		
260	22.9	18.7	28.1
265	21.6	17.6	26.4



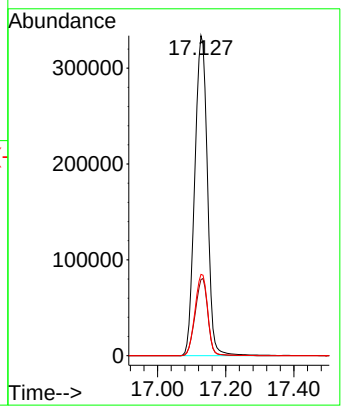


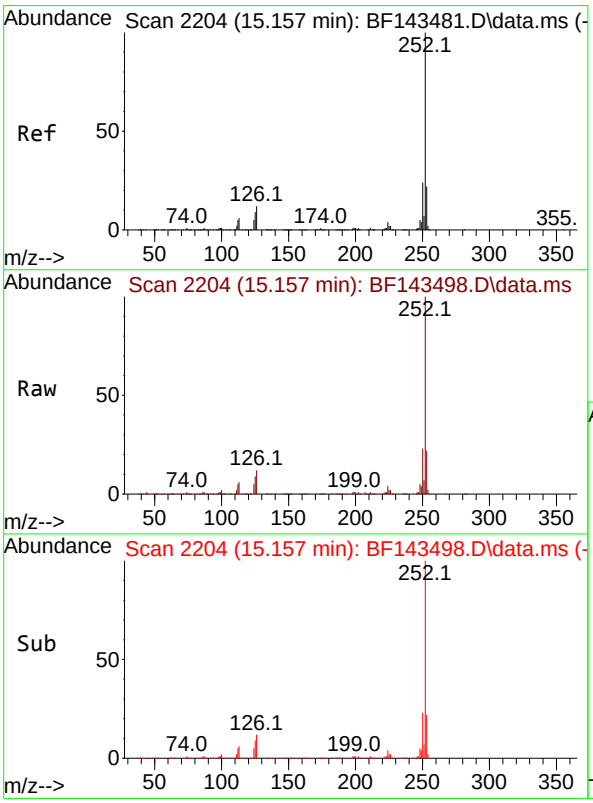
#87
Indeno(1,2,3-cd)pyrene
Concen: 41.308 ng
RT: 17.127 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:276 Resp: 861001

Ion	Ratio	Lower	Upper
276	100		
138	24.0	19.2	28.8
277	25.5	20.3	30.5

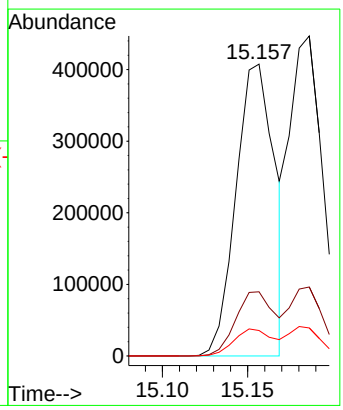


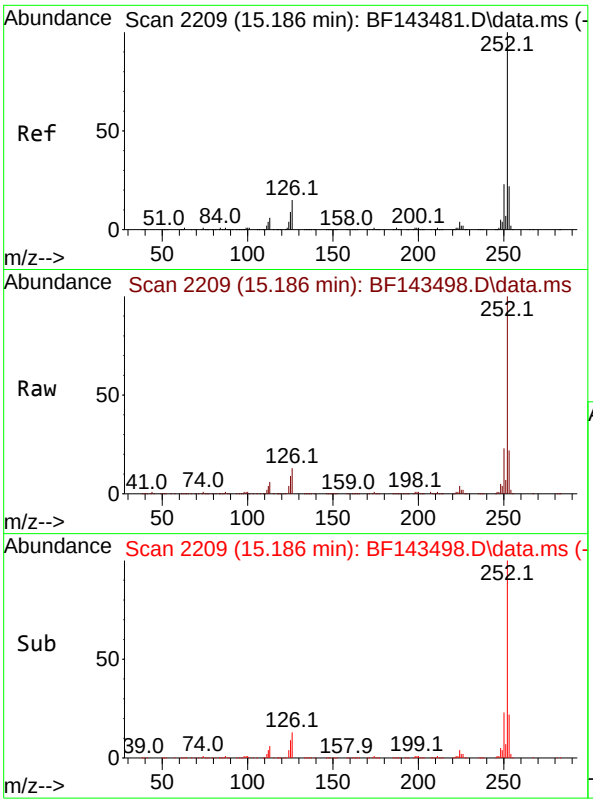


#88
Benzo(b)fluoranthene
Concen: 39.847 ng
RT: 15.157 min Scan# 2204
Delta R.T. 0.000 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Tgt Ion:252 Resp: 642454

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.5	26.3
125	8.7	7.4	11.0



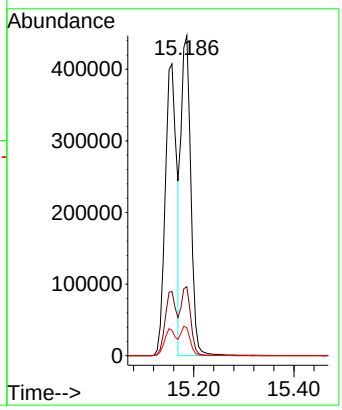


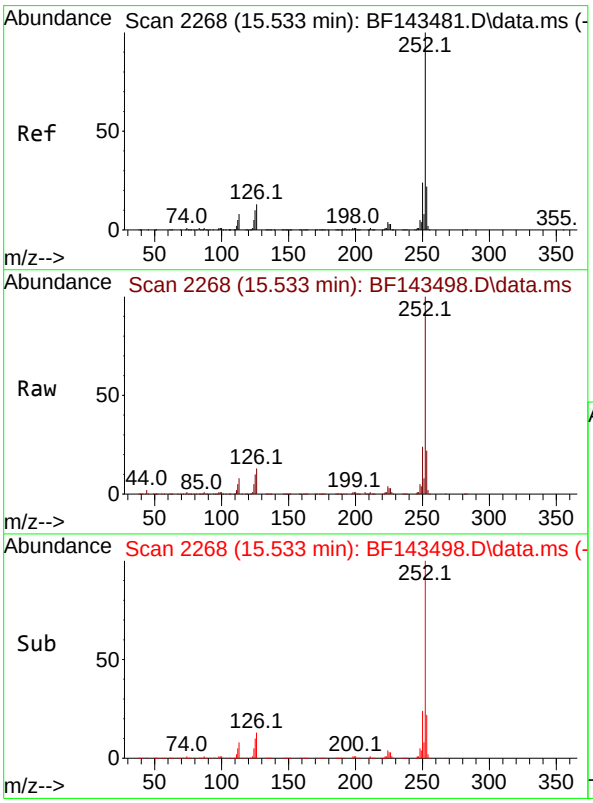
#89
Benzo(k)fluoranthene
Concen: 39.415 ng
RT: 15.186 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:252 Resp: 608451

Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.4	26.2
125	8.7	7.4	11.0

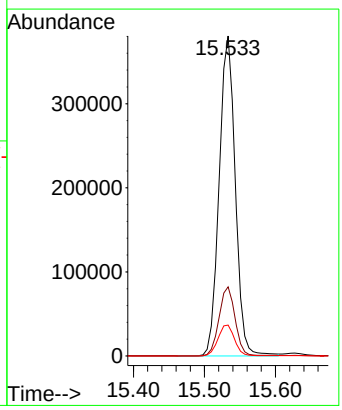


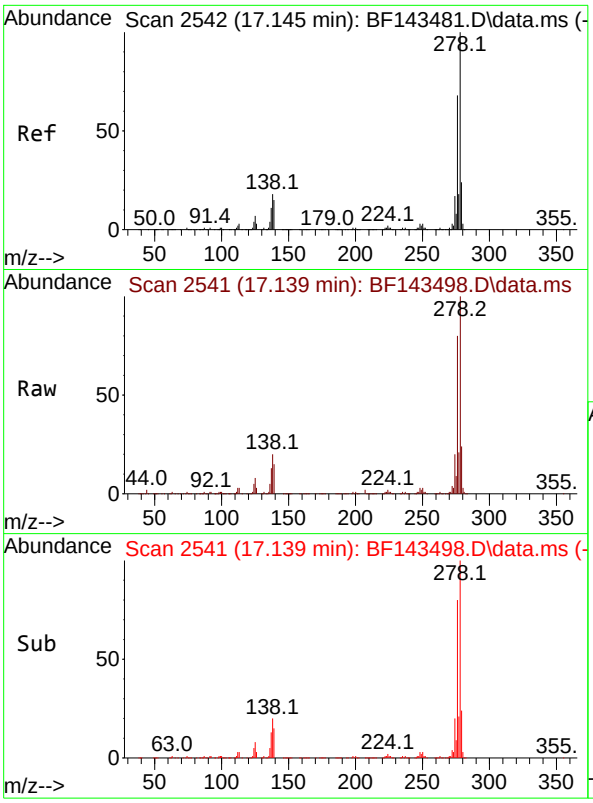


#90
Benzo(a)pyrene
Concen: 40.037 ng
RT: 15.533 min Scan# 2268
Delta R.T. -0.006 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Tgt Ion:252 Resp: 599182

Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.4	26.0
125	9.7	8.2	12.2



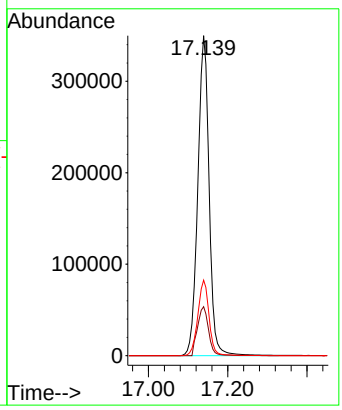


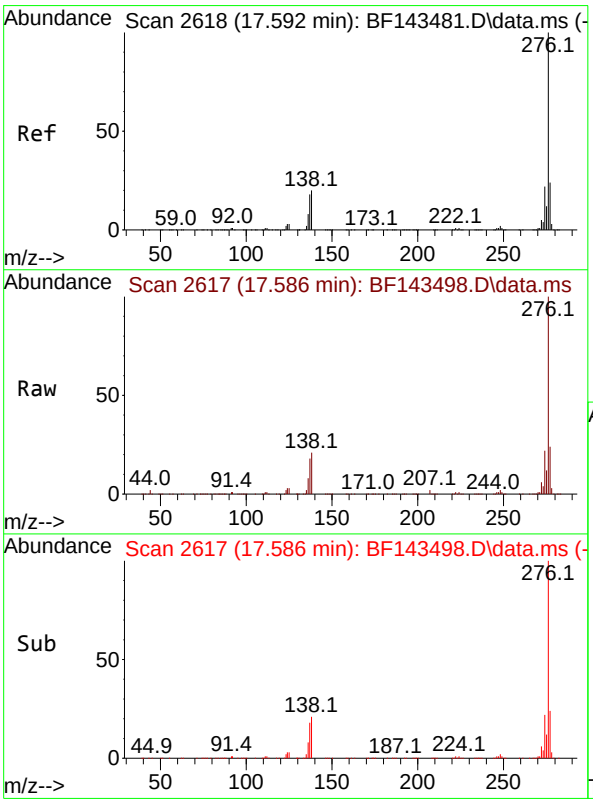
#91
Dibenzo(a,h)anthracene
Concen: 41.497 ng
RT: 17.139 min Scan# 2
Delta R.T. -0.018 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:278 Resp: 692716

Ion	Ratio	Lower	Upper
278	100		
139	15.3	12.1	18.1
279	23.6	19.2	28.8

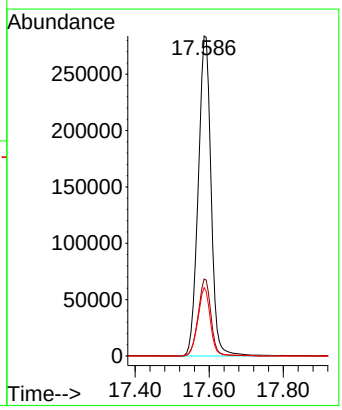




#92
Benzo(g,h,i)perylene
Concen: 41.185 ng
RT: 17.586 min Scan# 2617
Delta R.T. -0.018 min
Lab File: BF143498.D
Acq: 20 Aug 2025 22:05

Tgt Ion:276 Resp: 683631

Ion	Ratio	Lower	Upper
276	100		
277	24.0	18.9	28.3
138	21.3	16.3	24.5



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082025\
Data File : BF143498.D
Acq On : 20 Aug 2025 22:05
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Aug 21 06:37:22 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 21 06:12:21 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	101	0.00
2		1,4-Dioxane	0.531	0.507	4.5	95	0.00
3		Pyridine	1.413	1.355	4.1	95	0.00
4		n-Nitrosodimethylamine	0.635	0.643	-1.3	101	-0.01
5	S	2-Fluorophenol	1.145	1.150	-0.4	102	0.00
6		Aniline	1.890	1.885	0.3	100	0.00
7	S	Phenol-d6	1.414	1.395	1.3	100	-0.01
8		2-Chlorophenol	1.265	1.270	-0.4	101	0.00
9		Benzaldehyde	1.145	1.081	5.6	91	0.00
10	C	Phenol	1.629	1.649	-1.2	101	0.00
11		bis(2-Chloroethyl)ether	1.217	1.211	0.5	100	0.00
12		1,3-Dichlorobenzene	1.421	1.397	1.7	99	0.00
13	C	1,4-Dichlorobenzene	1.426	1.416	0.7	101	0.00
14		1,2-Dichlorobenzene	1.350	1.328	1.6	99	0.00
15		Benzyl Alcohol	1.059	1.065	-0.6	99	0.00
16		2,2'-oxybis(1-Chloropropane	1.947	1.949	-0.1	100	0.00
17		2-Methylphenol	1.015	1.021	-0.6	102	0.00
18		Hexachloroethane	0.485	0.481	0.8	99	0.00
19	P	n-Nitroso-di-n-propylamine	0.864	0.852	1.4	102	-0.01
20		3+4-Methylphenols	1.212	1.222	-0.8	101	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	100	0.00
22		Acetophenone	0.432	0.424	1.9	102	0.00
23	S	Nitrobenzene-d5	0.343	0.349	-1.7	102	-0.01
24		Nitrobenzene	0.353	0.362	-2.5	102	0.00
25		Isophorone	0.628	0.635	-1.1	102	-0.01
26	C	2-Nitrophenol	0.173	0.181	-4.6	102	0.00
27		2,4-Dimethylphenol	0.269	0.270	-0.4	100	0.00
28		bis(2-Chloroethoxy)methane	0.386	0.385	0.3	100	0.00
29	C	2,4-Dichlorophenol	0.288	0.290	-0.7	101	0.00
30		1,2,4-Trichlorobenzene	0.296	0.288	2.7	99	0.00
31		Naphthalene	0.960	0.933	2.8	99	0.00
32		Benzoic acid	0.137	0.137	0.0	94	-0.03
33		4-Chloroaniline	0.341	0.343	-0.6	100	0.00
34	C	Hexachlorobutadiene	0.193	0.192	0.5	100	0.00
35		Caprolactam	0.069	0.078	-13.0	110	-0.02
36	C	4-Chloro-3-methylphenol	0.288	0.293	-1.7	102	0.00
37		2-Methylnaphthalene	0.641	0.630	1.7	100	0.00
38		1-Methylnaphthalene	0.613	0.605	1.3	100	0.00
39	I	Acenaphthene-d10	1.000	1.000	0.0	101	0.00
40		1,2,4,5-Tetrachlorobenzene	0.572	0.553	3.3	99	0.00
41	P	Hexachlorocyclopentadiene	0.184	0.163	11.4	84	0.00
42	S	2,4,6-Tribromophenol	0.186	0.184	1.1	100	0.00
43	C	2,4,6-Trichlorophenol	0.352	0.356	-1.1	99	0.00
44		2,4,5-Trichlorophenol	0.385	0.377	2.1	100	0.00
45	S	2-Fluorobiphenyl	1.210	1.135	6.2	100	0.00
46		1,1'-Biphenyl	1.420	1.373	3.3	100	0.00
47		2-Chloronaphthalene	1.114	1.101	1.2	101	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082025\
Data File : BF143498.D
Acq On : 20 Aug 2025 22:05
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Aug 21 06:37:22 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 21 06:12:21 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	0.326	0.341	-4.6	103	0.00
49		Acenaphthylene	1.595	1.574	1.3	101	0.00
50		Dimethylphthalate	1.205	1.228	-1.9	104	0.00
51		2,6-Dinitrotoluene	0.250	0.262	-4.8	102	0.00
52	C	Acenaphthene	1.083	1.061	2.0	100	0.00
53		3-Nitroaniline	0.270	0.286	-5.9	104	0.00
54	P	2,4-Dinitrophenol	0.115	0.099	13.9	84	0.00
55		Dibenzofuran	1.544	1.518	1.7	101	0.00
56	P	4-Nitrophenol	0.161	0.174	-8.1	103	0.00
57		2,4-Dinitrotoluene	0.333	0.354	-6.3	102	0.00
58		Fluorene	1.188	1.156	2.7	101	0.00
59		2,3,4,6-Tetrachlorophenol	0.286	0.296	-3.5	101	0.00
60		Diethylphthalate	1.080	1.104	-2.2	103	0.00
61		4-Chlorophenyl-phenylether	0.594	0.578	2.7	100	0.00
62		4-Nitroaniline	0.248	0.268	-8.1	106	-0.01
63		Azobenzene	1.120	1.139	-1.7	103	0.00
64	I	Phenanthrene-d10	1.000	1.000	0.0	103	0.00
65		4,6-Dinitro-2-methylphenol	0.113	0.110	2.7	96	0.00
66	c	n-Nitrosodiphenylamine	0.644	0.627	2.6	101	0.00
67		4-Bromophenyl-phenylether	0.239	0.237	0.8	101	0.00
68		Hexachlorobenzene	0.257	0.247	3.9	99	0.00
69		Atrazine	0.166	0.185	-11.4	113	0.00
70	C	Pentachlorophenol	0.118	0.119	-0.8	99	0.00
71		Phenanthrene	1.071	1.039	3.0	103	0.00
72		Anthracene	1.085	1.059	2.4	101	0.00
73		Carbazole	0.889	0.887	0.2	103	0.00
74		Di-n-butylphthalate	0.829	0.911	-9.9	110	0.00
75	C	Fluoranthene	0.961	0.962	-0.1	105	0.00
76	I	Chrysene-d12	1.000	1.000	0.0	101	0.00
77		Benzidine	0.487	0.561	-15.2	110	0.00
78		Pyrene	1.645	1.665	-1.2	103	0.00
79	S	Terphenyl-d14	1.146	1.151	-0.4	103	0.00
80		Butylbenzylphthalate	0.449	0.480	-6.9	104	0.00
81		Benzo(a)anthracene	1.288	1.254	2.6	96	0.00
82		3,3'-Dichlorobenzidine	0.369	0.369	0.0	100	0.00
83		Chrysene	1.157	1.176	-1.6	107	0.00
84		Bis(2-ethylhexyl)phthalate	0.685	0.667	2.6	95	0.00
85	c	Di-n-octyl phthalate	1.268	1.215	4.2	95	0.00
86	I	Perylene-d12	1.000	1.000	0.0	101	0.00
87		Indeno(1,2,3-cd)pyrene	1.437	1.484	-3.3	103	-0.01
88		Benzo(b)fluoranthene	1.112	1.107	0.4	104	0.00
89		Benzo(k)fluoranthene	1.064	1.049	1.4	98	0.00
90	C	Benzo(a)pyrene	1.032	1.033	-0.1	101	0.00
91		Dibenzo(a,h)anthracene	1.151	1.194	-3.7	103	-0.02
92		Benzo(g,h,i)perylene	1.145	1.178	-2.9	103	-0.02

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082025\
Data File : BF143498.D
Acq On : 20 Aug 2025 22:05
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Aug 21 06:37:22 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 21 06:12:21 2025
Response via : Initial Calibration

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

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082025\
Data File : BF143498.D
Acq On : 20 Aug 2025 22:05
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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	101	0.00
2		1,4-Dioxane	40.000	38.239	4.4	95	0.00
3		Pyridine	40.000	38.366	4.1	95	0.00
4		n-Nitrosodimethylamine	40.000	40.483	-1.2	101	-0.01
5	S	2-Fluorophenol	80.000	80.348	-0.4	102	0.00
6		Aniline	40.000	39.899	0.3	100	0.00
7	S	Phenol-d6	80.000	78.917	1.4	100	-0.01
8		2-Chlorophenol	40.000	40.164	-0.4	101	0.00
9		Benzaldehyde	40.000	37.769	5.6	91	0.00
10	C	Phenol	40.000	40.504	-1.3	101	0.00
11		bis(2-Chloroethyl)ether	40.000	39.795	0.5	100	0.00
12		1,3-Dichlorobenzene	40.000	39.304	1.7	99	0.00
13	C	1,4-Dichlorobenzene	40.000	39.733	0.7	101	0.00
14		1,2-Dichlorobenzene	40.000	39.364	1.6	99	0.00
15		Benzyl Alcohol	40.000	40.257	-0.6	99	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	40.025	-0.1	100	0.00
17		2-Methylphenol	40.000	40.241	-0.6	102	0.00
18		Hexachloroethane	40.000	39.700	0.7	99	0.00
19	P	n-Nitroso-di-n-propylamine	40.000	39.455	1.4	102	-0.01
20		3+4-Methylphenols	40.000	40.322	-0.8	101	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	100	0.00
22		Acetophenone	40.000	39.285	1.8	102	0.00
23	S	Nitrobenzene-d5	80.000	81.469	-1.8	102	-0.01
24		Nitrobenzene	40.000	40.995	-2.5	102	0.00
25		Isophorone	40.000	40.435	-1.1	102	-0.01
26	C	2-Nitrophenol	40.000	41.873	-4.7	102	0.00
27		2,4-Dimethylphenol	40.000	40.152	-0.4	100	0.00
28		bis(2-Chloroethoxy)methane	40.000	39.898	0.3	100	0.00
29	C	2,4-Dichlorophenol	40.000	40.336	-0.8	101	0.00
30		1,2,4-Trichlorobenzene	40.000	38.930	2.7	99	0.00
31		Naphthalene	40.000	38.863	2.8	99	0.00
32		Benzoic acid	40.000	37.123	7.2	94	-0.03
33		4-Chloroaniline	40.000	40.252	-0.6	100	0.00
34	C	Hexachlorobutadiene	40.000	39.776	0.6	100	0.00
35		Caprolactam	40.000	44.931	-12.3	110	-0.02
36	C	4-Chloro-3-methylphenol	40.000	40.718	-1.8	102	0.00
37		2-Methylnaphthalene	40.000	39.283	1.8	100	0.00
38		1-Methylnaphthalene	40.000	39.442	1.4	100	0.00
39	I	Acenaphthene-d10	20.000	20.000	0.0	101	0.00
40		1,2,4,5-Tetrachlorobenzene	40.000	38.686	3.3	99	0.00
41	P	Hexachlorocyclopentadiene	40.000	33.457	16.4	84	0.00
42	S	2,4,6-Tribromophenol	80.000	79.261	0.9	100	0.00
43	C	2,4,6-Trichlorophenol	40.000	40.426	-1.1	99	0.00
44		2,4,5-Trichlorophenol	40.000	39.194	2.0	100	0.00
45	S	2-Fluorobiphenyl	80.000	75.061	6.2	100	0.00
46		1,1'-Biphenyl	40.000	38.693	3.3	100	0.00
47		2-Chloronaphthalene	40.000	39.533	1.2	101	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082025\
Data File : BF143498.D
Acq On : 20 Aug 2025 22:05
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Aug 21 06:37:22 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 21 06:12:21 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	41.804	-4.5	103	0.00
49		Acenaphthylene	40.000	39.486	1.3	101	0.00
50		Dimethylphthalate	40.000	40.765	-1.9	104	0.00
51		2,6-Dinitrotoluene	40.000	41.967	-4.9	102	0.00
52	C	Acenaphthene	40.000	39.200	2.0	100	0.00
53		3-Nitroaniline	40.000	42.370	-5.9	104	0.00
54	P	2,4-Dinitrophenol	40.000	32.946	17.6	84	0.00
55		Dibenzofuran	40.000	39.338	1.7	101	0.00
56	P	4-Nitrophenol	40.000	43.335	-8.3	103	0.00
57		2,4-Dinitrotoluene	40.000	42.505	-6.3	102	0.00
58		Fluorene	40.000	38.909	2.7	101	0.00
59		2,3,4,6-Tetrachlorophenol	40.000	41.458	-3.6	101	0.00
60		Diethylphthalate	40.000	40.873	-2.2	103	0.00
61		4-Chlorophenyl-phenylether	40.000	38.920	2.7	100	0.00
62		4-Nitroaniline	40.000	43.337	-8.3	106	-0.01
63		Azobenzene	40.000	40.670	-1.7	103	0.00
64	I	Phenanthrene-d10	20.000	20.000	0.0	103	0.00
65		4,6-Dinitro-2-methylphenol	40.000	39.155	2.1	96	0.00
66	c	n-Nitrosodiphenylamine	40.000	38.990	2.5	101	0.00
67		4-Bromophenyl-phenylether	40.000	39.734	0.7	101	0.00
68		Hexachlorobenzene	40.000	38.425	3.9	99	0.00
69		Atrazine	40.000	44.605	-11.5	113	0.00
70	C	Pentachlorophenol	40.000	40.559	-1.4	99	0.00
71		Phenanthrene	40.000	38.800	3.0	103	0.00
72		Anthracene	40.000	39.041	2.4	101	0.00
73		Carbazole	40.000	39.926	0.2	103	0.00
74		Di-n-butylphthalate	40.000	43.920	-9.8	110	0.00
75	C	Fluoranthene	40.000	40.050	-0.1	105	0.00
76	I	Chrysene-d12	20.000	20.000	0.0	101	0.00
77		Benzidine	40.000	46.044	-15.1	110	0.00
78		Pyrene	40.000	40.485	-1.2	103	0.00
79	S	Terphenyl-d14	80.000	80.326	-0.4	103	0.00
80		Butylbenzylphthalate	40.000	42.677	-6.7	104	0.00
81		Benzo(a)anthracene	40.000	38.965	2.6	96	0.00
82		3,3'-Dichlorobenzidine	40.000	40.076	-0.2	100	0.00
83		Chrysene	40.000	40.656	-1.6	107	0.00
84		Bis(2-ethylhexyl)phthalate	40.000	38.980	2.6	95	0.00
85	c	Di-n-octyl phthalate	40.000	38.327	4.2	95	0.00
86	I	Perylene-d12	20.000	20.000	0.0	101	0.00
87		Indeno(1,2,3-cd)pyrene	40.000	41.308	-3.3	103	-0.01
88		Benzo(b)fluoranthene	40.000	39.847	0.4	104	0.00
89		Benzo(k)fluoranthene	40.000	39.415	1.5	98	0.00
90	C	Benzo(a)pyrene	40.000	40.037	-0.1	101	0.00
91		Dibenzo(a,h)anthracene	40.000	41.497	-3.7	103	-0.02
92		Benzo(g,h,i)perylene	40.000	41.185	-3.0	103	-0.02

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082025\
Data File : BF143498.D
Acq On : 20 Aug 2025 22:05
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Aug 21 06:37:22 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 21 06:12:21 2025
Response via : Initial Calibration

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

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

(#) = Out of Range SPCC's out = 0 CCC's out = 0

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: FIRS02

Lab Code: ACE SDG No.: Q2819

Instrument ID: BNA_F Calibration Date/Time: 08/21/2025 06:44

Lab File ID: BF143516.D Init. Calib. Date(s): 08/20/2025 08/20/2025

EPA Sample No.: SSTDCCC040EC Init. Calib. Time(s): 10:55 14:20

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.145	1.126		-1.7	50.0
Benzaldehyde	1.145	1.296		13.2	50.0
Phenol-d6	1.414	1.374		-2.8	50.0
Phenol	1.629	1.615		-0.9	50.0
bis(2-Chloroethyl)ether	1.217	1.190		-2.2	50.0
2-Chlorophenol	1.265	1.233		-2.5	50.0
2-Methylphenol	1.015	1.006		-0.9	50.0
2,2-oxybis(1-Chloropropane)	1.947	1.881		-3.4	50.0
Acetophenone	0.432	0.422		-2.3	50.0
3+4-Methylphenols	1.212	1.199		-1.1	50.0
n-Nitroso-di-n-propylamine	0.864	0.835	0.050	-3.4	50.0
Nitrobenzene-d5	0.343	0.343		0.0	50.0
Hexachloroethane	0.485	0.476		-1.9	50.0
Nitrobenzene	0.353	0.357		1.1	50.0
Isophorone	0.628	0.628		0.0	50.0
2-Nitrophenol	0.173	0.181		4.6	50.0
2,4-Dimethylphenol	0.269	0.264		-1.9	50.0
bis(2-Chloroethoxy)methane	0.386	0.386		0.0	50.0
2,4-Dichlorophenol	0.288	0.287		-0.3	50.0
Naphthalene	0.960	0.938		-2.3	50.0
4-Chloroaniline	0.341	0.332		-2.6	50.0
Hexachlorobutadiene	0.193	0.193		0.0	50.0
Caprolactam	0.069	0.076		10.1	50.0
4-Chloro-3-methylphenol	0.288	0.291		1.0	50.0
2-Methylnaphthalene	0.641	0.622		-3.0	50.0
Hexachlorocyclopentadiene	0.184	0.166	0.050	-9.8	50.0
2,4,6-Trichlorophenol	0.352	0.350		-0.6	50.0
2-Fluorobiphenyl	1.210	1.163		-3.9	50.0
2,4,5-Trichlorophenol	0.385	0.386		0.3	50.0
1,1-Biphenyl	1.420	1.380		-2.8	50.0
2-Chloronaphthalene	1.114	1.088		-2.3	50.0
2-Nitroaniline	0.326	0.331		1.5	50.0
Dimethylphthalate	1.205	1.222		1.4	50.0
Acenaphthylene	1.595	1.557		-2.4	50.0
2,6-Dinitrotoluene	0.250	0.257		2.8	50.0
3-Nitroaniline	0.270	0.268		-0.7	50.0
Acenaphthene	1.083	1.029		-5.0	50.0
2,4-Dinitrophenol	0.115	0.082	0.050	-28.7	50.0
4-Nitrophenol	0.161	0.153	0.050	-5.0	50.0

Form VII SV-1

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: Alliance Contract: FIRS02

Lab Code: ACE SDG No.: Q2819

Instrument ID: BNA_F Calibration Date/Time: 08/21/2025 06:44

Lab File ID: BF143516.D Init. Calib. Date(s): 08/20/2025 08/20/2025

EPA Sample No.: SSTDCCC040EC Init. Calib. Time(s): 10:55 14:20

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.544	1.502		-2.7	50.0
2,4-Dinitrotoluene	0.333	0.341		2.4	50.0
Diethylphthalate	1.080	1.117		3.4	50.0
4-Chlorophenyl-phenylether	0.594	0.579		-2.5	50.0
Fluorene	1.188	1.137		-4.3	50.0
4-Nitroaniline	0.248	0.245		-1.2	50.0
4,6-Dinitro-2-methylphenol	0.113	0.105		-7.1	50.0
n-Nitrosodiphenylamine	0.644	0.645		0.2	50.0
2,4,6-Tribromophenol	0.186	0.181		-2.7	50.0
4-Bromophenyl-phenylether	0.239	0.246		2.9	50.0
Hexachlorobenzene	0.257	0.258		0.4	50.0
Atrazine	0.166	0.189		13.9	50.0
Pentachlorophenol	0.118	0.112		-5.1	50.0
Phenanthrene	1.071	1.050		-2.0	50.0
Anthracene	1.085	1.062		-2.1	50.0
Carbazole	0.889	0.860		-3.3	50.0
Di-n-butylphthalate	0.829	0.927		11.8	50.0
Fluoranthene	0.961	0.897		-6.7	50.0
Pyrene	1.645	1.474		-10.4	50.0
Terphenyl-d14	1.146	1.057		-7.8	50.0
Butylbenzylphthalate	0.449	0.491		9.4	50.0
3,3-Dichlorobenzidine	0.369	0.392		6.2	50.0
Benzo(a)anthracene	1.288	1.249		-3.0	50.0
Chrysene	1.157	1.160		0.3	50.0
Bis(2-ethylhexyl)phthalate	0.685	0.720		5.1	50.0
Di-n-octyl phthalate	1.268	1.332		5.0	50.0
Benzo(b)fluoranthene	1.112	1.135		2.1	50.0
Benzo(k)fluoranthene	1.064	1.008		-5.3	50.0
Benzo(a)pyrene	1.032	1.036		0.4	50.0
Indeno(1,2,3-cd)pyrene	1.437	1.402		-2.4	50.0
Dibenzo(a,h)anthracene	1.151	1.134		-1.5	50.0
Benzo(g,h,i)perylene	1.145	1.086		-5.2	50.0
1,2,4,5-Tetrachlorobenzene	0.572	0.565		-1.2	50.0
1,4-Dioxane	0.531	0.534		0.6	50.0
2,3,4,6-Tetrachlorophenol	0.286	0.286		0.0	50.0

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082025\
Data File : BF143516.D
Acq On : 21 Aug 2025 06:44
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 40 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Quant Time: Aug 21 07:07:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 21 06:12:21 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.928	152	137454	20.000	ng	0.00
21) Naphthalene-d8	8.210	136	510568	20.000	ng	0.00
39) Acenaphthene-d10	9.963	164	274867	20.000	ng	0.00
64) Phenanthrene-d10	11.451	188	405205	20.000	ng	0.00
76) Chrysene-d12	14.098	240	245385	20.000	ng	0.00
86) Perylene-d12	15.592	264	295910	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.557	112	619031	78.639	ng	0.00
7) Phenol-d6	6.563	99	755494	77.747	ng	-0.01
23) Nitrobenzene-d5	7.487	82	701155	80.138	ng	-0.01
42) 2,4,6-Tribromophenol	10.757	330	199460	77.956	ng	0.00
45) 2-Fluorobiphenyl	9.287	172	1278754	76.887	ng	0.00
79) Terphenyl-d14	13.033	244	1037790	73.802	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.734	88	146835	40.266	ng	99
3) Pyridine	3.516	79	391326	40.291	ng	99
4) n-Nitrosodimethylamine	3.457	42	174889	40.055	ng	99
6) Aniline	6.593	93	504423	38.836	ng	99
8) 2-Chlorophenol	6.716	128	339008	38.991	ng	99
9) Benzaldehyde	6.481	77	356360	45.296	ng	99
10) Phenol	6.581	94	443936	39.657	ng	97
11) bis(2-Chloroethyl)ether	6.657	93	327175	39.111	ng	100
12) 1,3-Dichlorobenzene	6.869	146	382483	39.153	ng	99
13) 1,4-Dichlorobenzene	6.945	146	380754	38.855	ng	99
14) 1,2-Dichlorobenzene	7.098	146	361970	39.014	ng	100
15) Benzyl Alcohol	7.069	79	291861	40.117	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.198	45	517064	38.635	ng	99
17) 2-Methylphenol	7.181	107	276576	39.635	ng	96
18) Hexachloroethane	7.440	117	130737	39.240	ng	96
19) n-Nitroso-di-n-propyla...	7.340	70	229547	38.648	ng	100
20) 3+4-Methylphenols	7.334	107	329524	39.557	ng	99
22) Acetophenone	7.334	105	431226	39.094	ng	100
24) Nitrobenzene	7.510	77	364218	40.446	ng	98
25) Isophorone	7.745	82	641626	40.006	ng	99
26) 2-Nitrophenol	7.822	139	185319	42.012	ng	96
27) 2,4-Dimethylphenol	7.863	122	269222	39.152	ng	99
28) bis(2-Chloroethoxy)met...	7.951	93	393788	39.952	ng	100
29) 2,4-Dichlorophenol	8.069	162	293101	39.911	ng	98
30) 1,2,4-Trichlorobenzene	8.151	180	300378	39.782	ng	99
31) Naphthalene	8.234	128	958228	39.092	ng	100
32) Benzoic acid	7.981	122	141499	37.591	ng	98
33) 4-Chloroaniline	8.275	127	339182	38.986	ng	98
34) Hexachlorobutadiene	8.351	225	196894	39.969	ng	100
35) Caprolactam	8.651	113	77185	43.799	ng	98
36) 4-Chloro-3-methylphenol	8.763	107	297282	40.394	ng	98
37) 2-Methylnaphthalene	8.922	142	635344	38.808	ng	100
38) 1-Methylnaphthalene	9.022	142	605817	38.685	ng	99
40) 1,2,4,5-Tetrachloroben...	9.092	216	310596	39.505	ng	99
41) Hexachlorocyclopentadiene	9.081	237	91199	33.894	ng	99
43) 2,4,6-Trichlorophenol	9.204	196	192667	39.825	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082025\
Data File : BF143516.D
Acq On : 21 Aug 2025 06:44
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 40 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Quant Time: Aug 21 07:07:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 21 06:12:21 2025
Response via : Initial Calibration

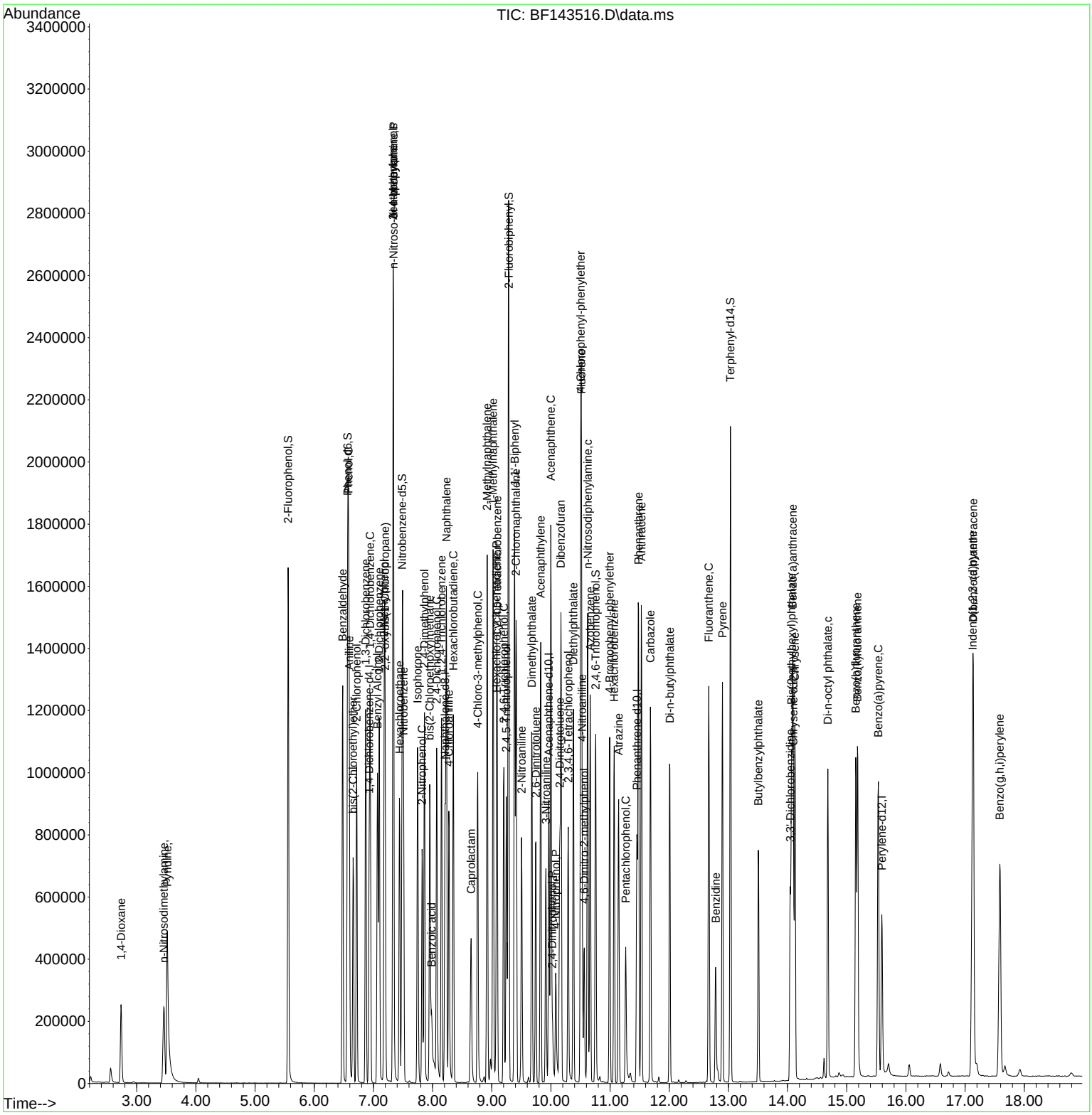
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.245	196	212240	40.163	ng	98
46) 1,1'-Biphenyl	9.386	154	758507	38.879	ng	99
47) 2-Chloronaphthalene	9.410	162	597936	39.061	ng	98
48) 2-Nitroaniline	9.504	65	182065	40.640	ng	98
49) Acenaphthylene	9.828	152	856096	39.059	ng	100
50) Dimethylphthalate	9.675	163	671826	40.583	ng	100
51) 2,6-Dinitrotoluene	9.745	165	141216	41.159	ng	99
52) Acenaphthene	9.998	154	565670	38.011	ng	99
53) 3-Nitroaniline	9.916	138	147101	39.678	ng	99
54) 2,4-Dinitrophenol	10.022	184	44950	28.170	ng	89
55) Dibenzofuran	10.169	168	825740	38.919	ng	98
56) 4-Nitrophenol	10.081	139	84274	38.203	ng	94
57) 2,4-Dinitrotoluene	10.151	165	187283	40.880	ng	99
58) Fluorene	10.516	166	625227	38.288	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.292	232	157108	40.017	ng	100
60) Diethylphthalate	10.381	149	613793	41.355	ng	100
61) 4-Chlorophenyl-phenyle...	10.504	204	318396	38.987	ng	99
62) 4-Nitroaniline	10.528	138	134532	39.506	ng	97
63) Azobenzene	10.663	77	602578	39.155	ng	99
65) 4,6-Dinitro-2-methylph...	10.563	198	85050	37.226	ng	98
66) n-Nitrosodiphenylamine	10.622	169	522417	40.062	ng	98
67) 4-Bromophenyl-phenylether	10.992	248	198971	41.154	ng	97
68) Hexachlorobenzene	11.069	284	209043	40.112	ng	100
69) Atrazine	11.145	200	153390	45.568	ng	99
70) Pentachlorophenol	11.263	266	90936	38.100	ng	100
71) Phenanthrene	11.480	178	851106	39.223	ng	99
72) Anthracene	11.528	178	860520	39.146	ng	99
73) Carbazole	11.680	167	697205	38.707	ng	99
74) Di-n-butylphthalate	12.010	149	751456	44.721	ng	100
75) Fluoranthene	12.669	202	726991	37.338	ng	99
77) Benzidine	12.786	184	233194	39.014	ng	99
78) Pyrene	12.898	202	723572	35.848	ng	100
80) Butylbenzylphthalate	13.504	149	241048	43.715	ng	97
81) Benzo(a)anthracene	14.086	228	612793	38.789	ng	99
82) 3,3'-Dichlorobenzidine	14.045	252	192601	42.571	ng	99
83) Chrysene	14.121	228	569457	40.110	ng	100
84) Bis(2-ethylhexyl)phtha...	14.069	149	353573	42.100	ng	100
85) Di-n-octyl phthalate	14.680	149	653491	42.003	ng	100
87) Indeno(1,2,3-cd)pyrene	17.127	276	829688	39.018	ng	100
88) Benzo(b)fluoranthene	15.151	252	671954	40.852	ng	99
89) Benzo(k)fluoranthene	15.180	252	596771	37.893	ng	100
90) Benzo(a)pyrene	15.533	252	613387	40.175	ng	100
91) Dibenzo(a,h)anthracene	17.139	278	670989	39.400	ng	99
92) Benzo(g,h,i)perylene	17.586	276	642548	37.945	ng	99

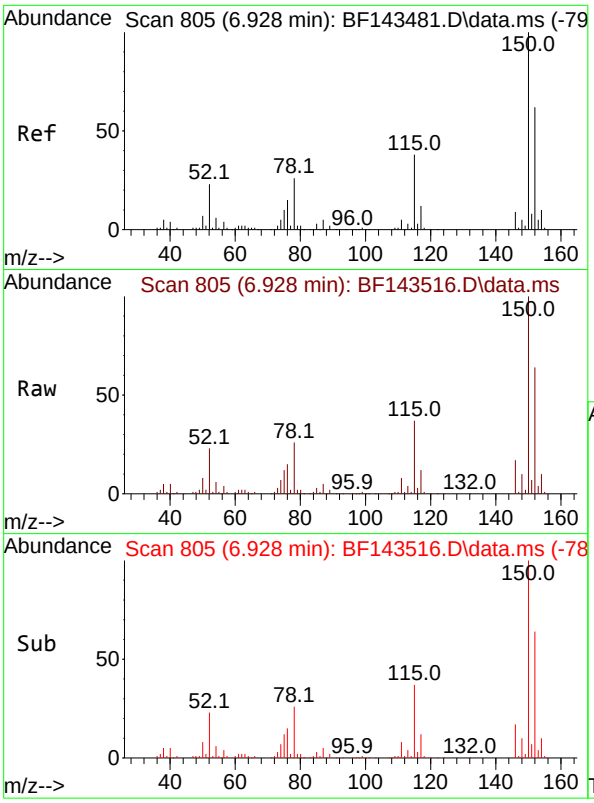
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082025\
Data File : BF143516.D
Acq On : 21 Aug 2025 06:44
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 40 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Quant Time: Aug 21 07:07:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 21 06:12:21 2025
Response via : Initial Calibration



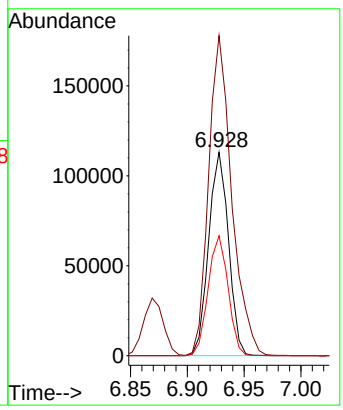


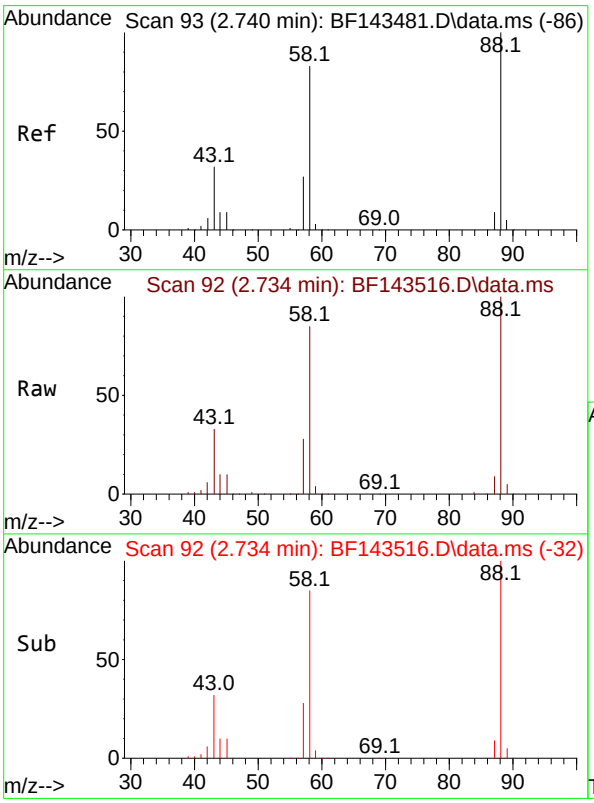
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.928 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:152 Resp: 137454

Ion	Ratio	Lower	Upper
152	100		
150	157.3	128.9	193.3
115	58.9	49.2	73.8

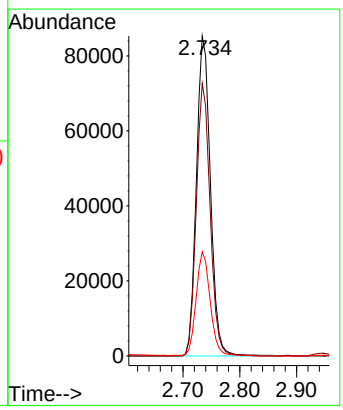


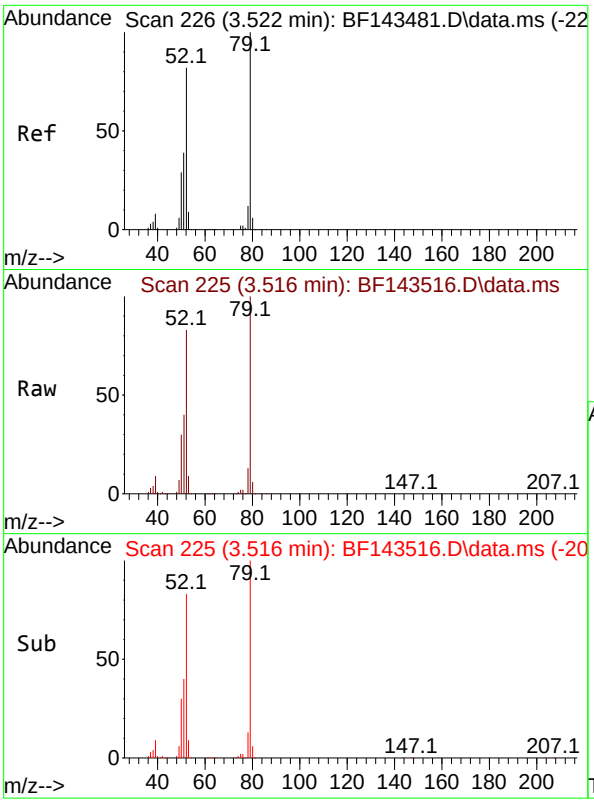


#2
1,4-Dioxane
Concen: 40.266 ng
RT: 2.734 min Scan# 92
Delta R.T. 0.000 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Tgt Ion: 88 Resp: 146835

Ion	Ratio	Lower	Upper
88	100		
58	84.0	66.7	100.1
43	32.9	25.8	38.8



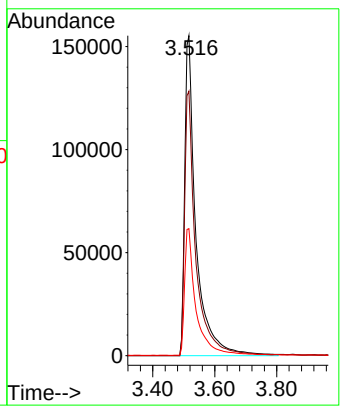


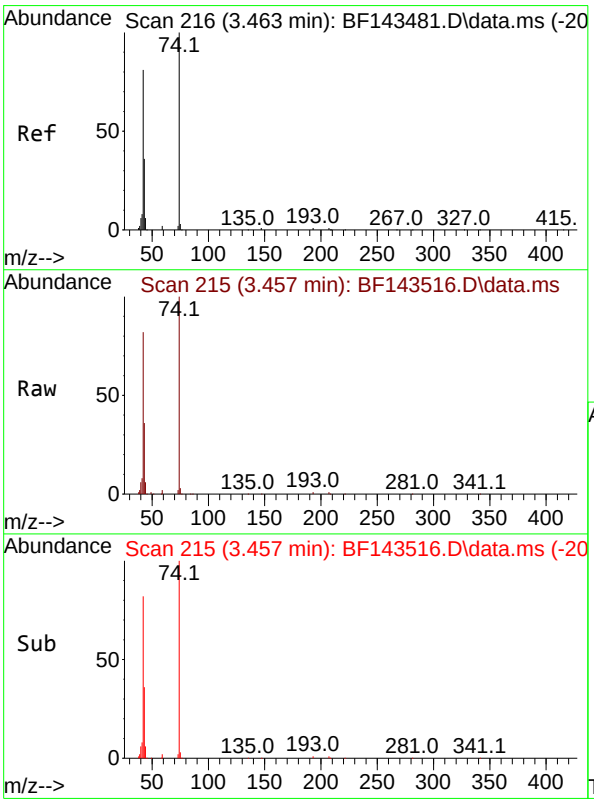
#3
Pyridine
Concen: 40.291 ng
RT: 3.516 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 79 Resp: 391326

Ion	Ratio	Lower	Upper
79	100		
52	82.7	65.6	98.4
51	39.7	31.2	46.8

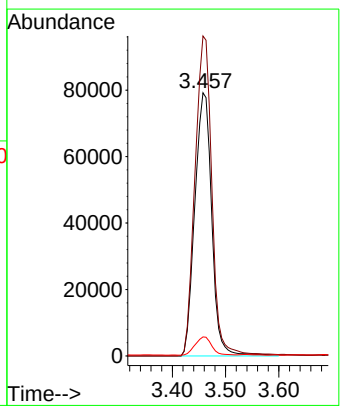


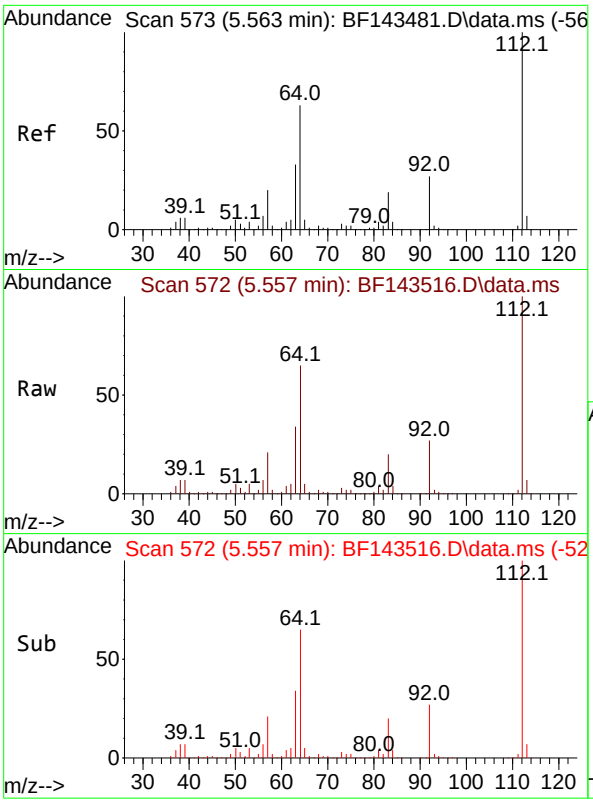


#4
n-Nitrosodimethylamine
Concen: 40.055 ng
RT: 3.457 min Scan# 215
Delta R.T. -0.018 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Tgt Ion: 42 Resp: 174889

Ion	Ratio	Lower	Upper
42	100		
74	121.6	98.6	148.0
44	7.2	5.8	8.8



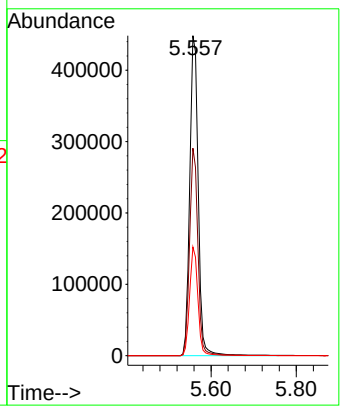


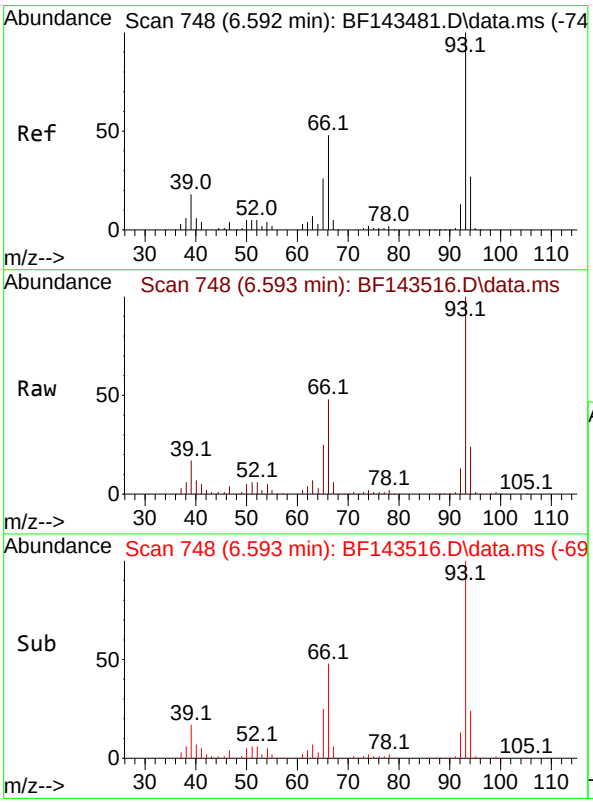
#5
2-Fluorophenol
Concen: 78.639 ng
RT: 5.557 min Scan# 5
Delta R.T. -0.006 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:112 Resp: 619031

Ion	Ratio	Lower	Upper
112	100		
64	64.8	50.4	75.6
63	34.0	26.4	39.6

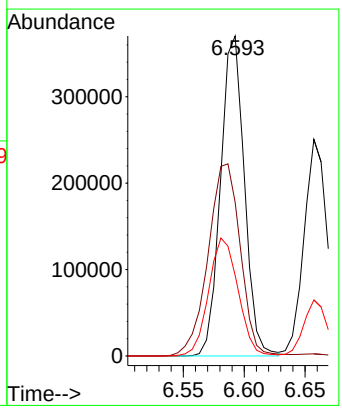


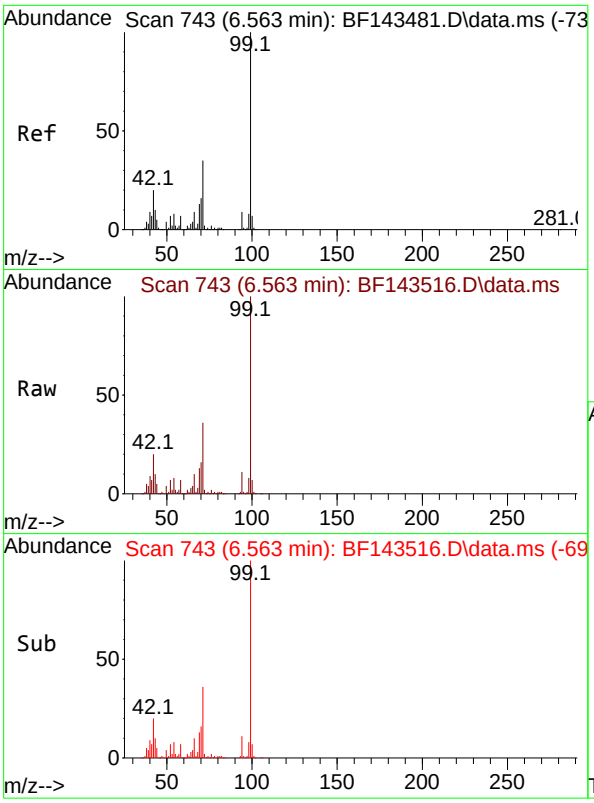


#6
Aniline
Concen: 38.836 ng
RT: 6.593 min Scan# 748
Delta R.T. 0.000 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Tgt Ion: 93 Resp: 504423

Ion	Ratio	Lower	Upper
93	100		
66	48.0	38.9	58.3
65	25.2	20.6	30.8



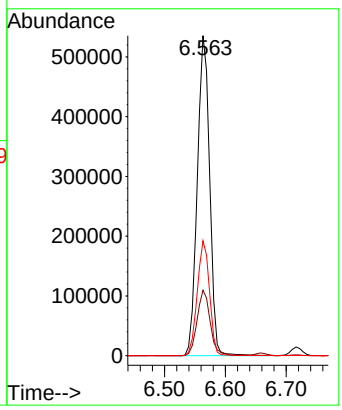


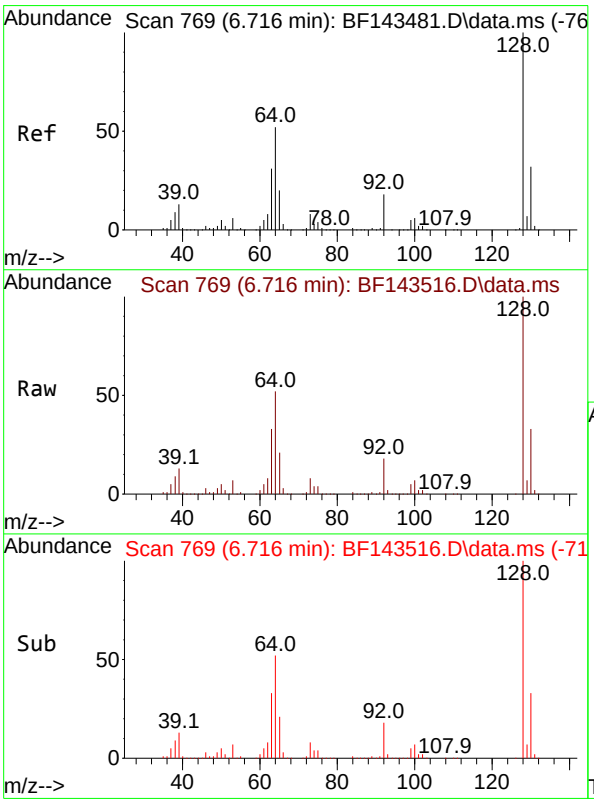
#7
Phenol-d6
Concen: 77.747 ng
RT: 6.563 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 99 Resp: 755494

Ion	Ratio	Lower	Upper
99	100		
42	20.5	16.3	24.5
71	35.9	28.2	42.2

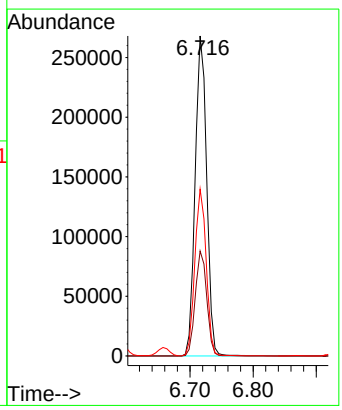


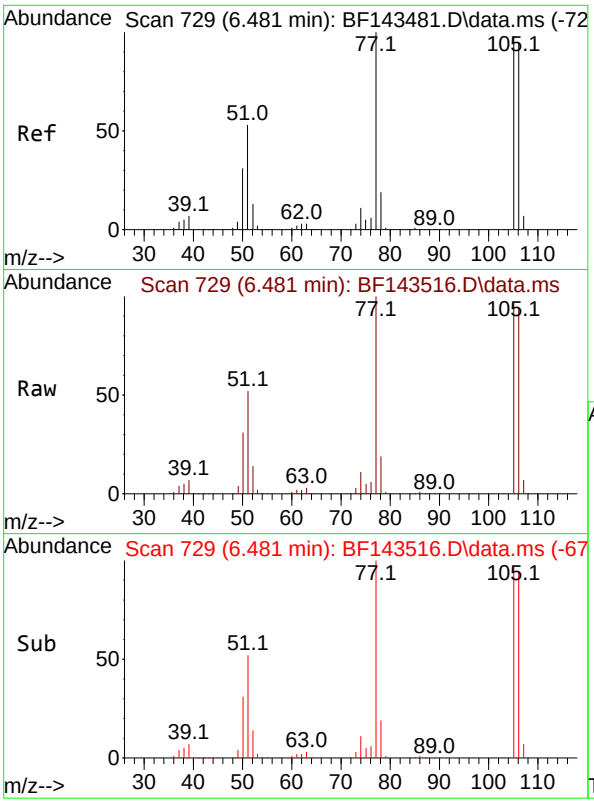


#8
2-Chlorophenol
Concen: 38.991 ng
RT: 6.716 min Scan# 769
Delta R.T. -0.006 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Tgt Ion:128 Resp: 339008

Ion	Ratio	Lower	Upper
128	100		
130	32.8	12.4	52.4
64	52.2	31.6	71.6



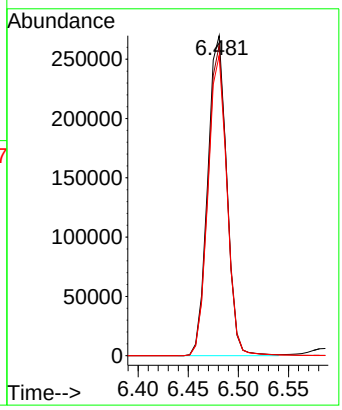


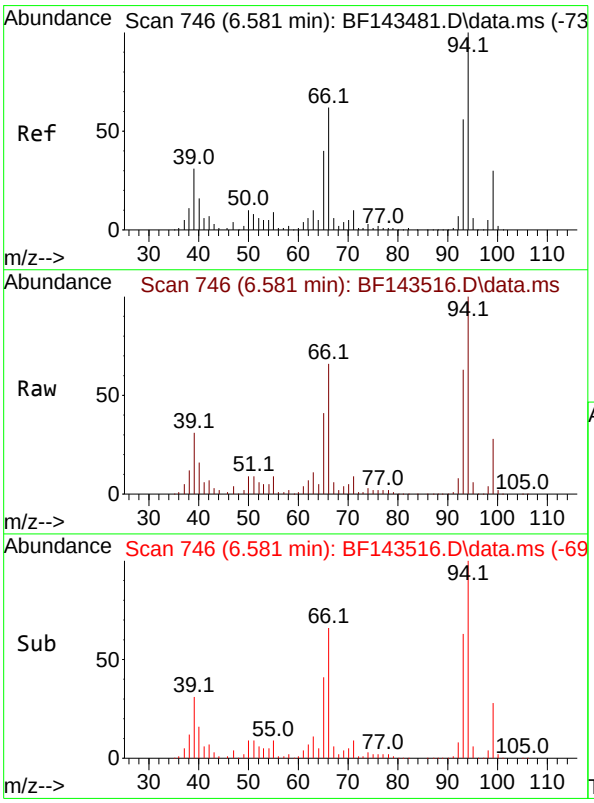
#9
Benzaldehyde
Concen: 45.296 ng
RT: 6.481 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 77 Resp: 356360

Ion	Ratio	Lower	Upper
77	100		
105	96.9	78.1	118.1
106	93.8	74.9	114.9

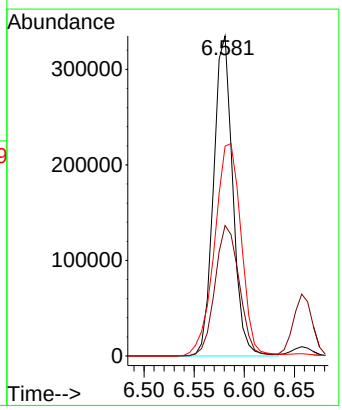


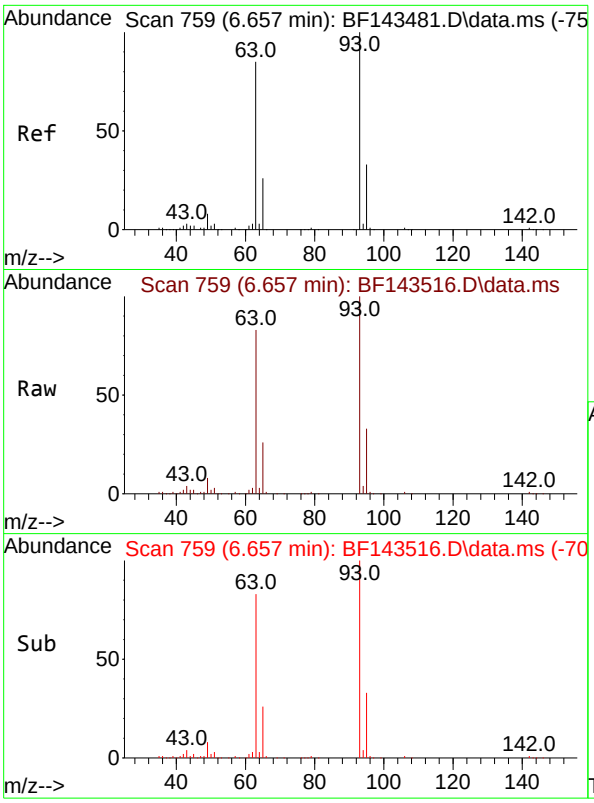


#10
Phenol
Concen: 39.657 ng
RT: 6.581 min Scan# 746
Delta R.T. -0.006 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Tgt Ion: 94 Resp: 443936

Ion	Ratio	Lower	Upper
94	100		
65	40.8	19.5	59.5
66	65.5	42.5	82.5



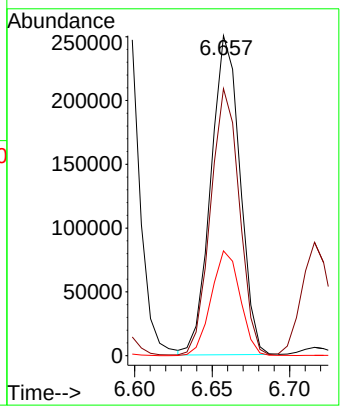


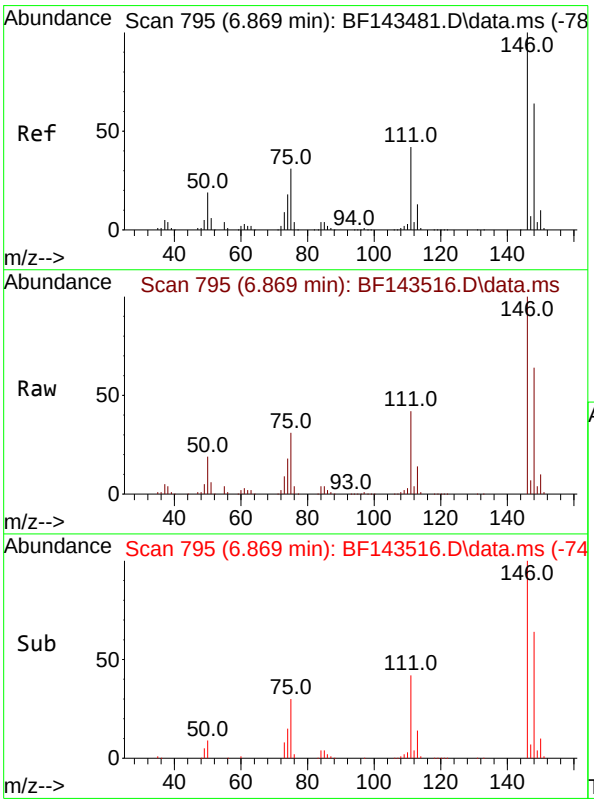
#11
bis(2-Chloroethyl)ether
Concen: 39.111 ng
RT: 6.657 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 93 Resp: 327175

Ion	Ratio	Lower	Upper
93	100		
63	83.5	63.6	103.6
95	32.7	12.8	52.8

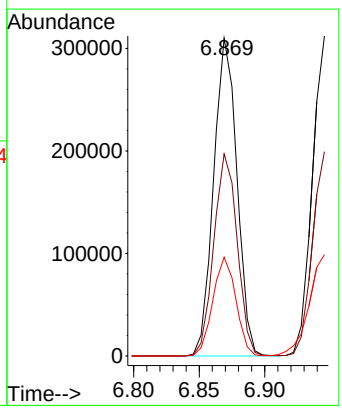


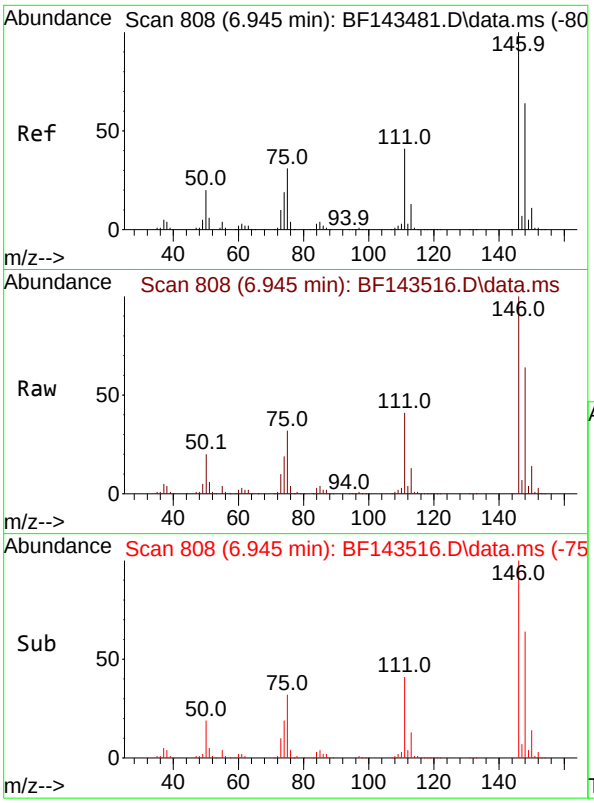


#12
1,3-Dichlorobenzene
Concen: 39.153 ng
RT: 6.869 min Scan# 795
Delta R.T. -0.006 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Tgt Ion:146 Resp: 382483

Ion	Ratio	Lower	Upper
146	100		
148	63.6	51.3	76.9
75	31.1	24.7	37.1



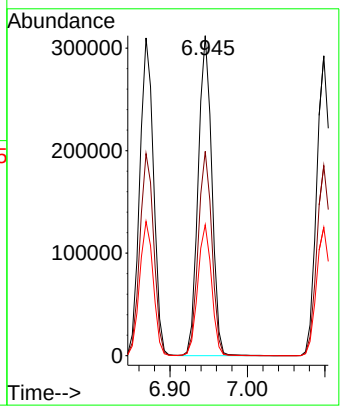


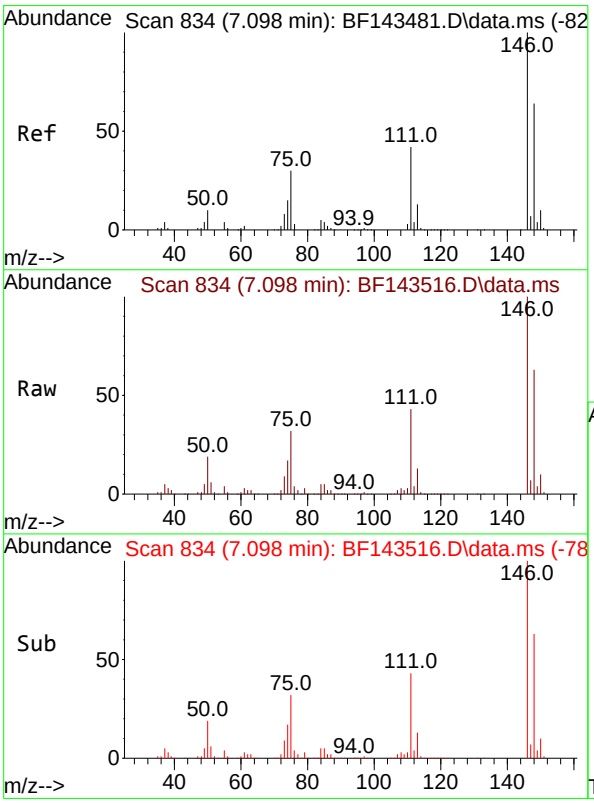
#13
1,4-Dichlorobenzene
Concen: 38.855 ng
RT: 6.945 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:146 Resp: 380754

Ion	Ratio	Lower	Upper
146	100		
148	63.8	51.5	77.3
111	40.9	32.6	49.0

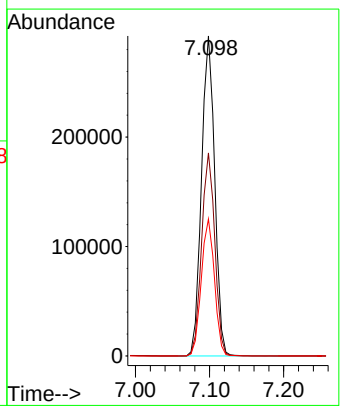


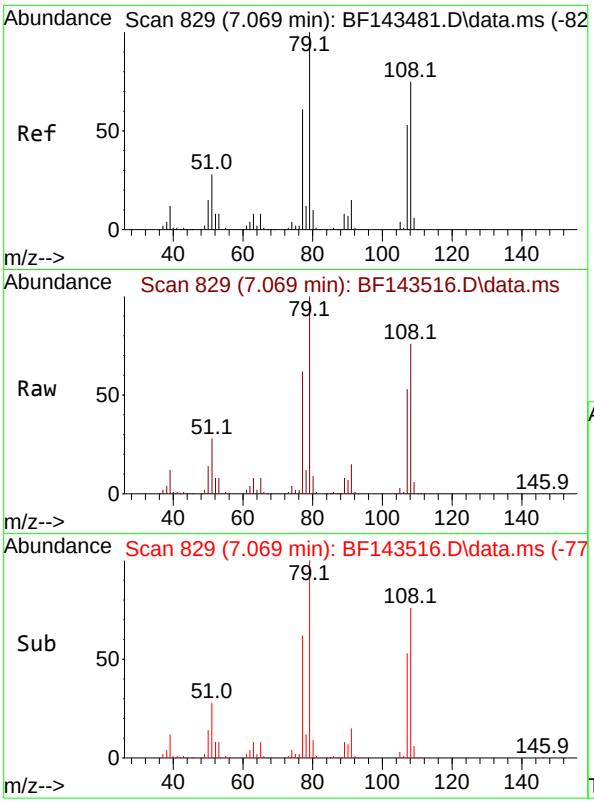


#14
1,2-Dichlorobenzene
Concen: 39.014 ng
RT: 7.098 min Scan# 834
Delta R.T. 0.000 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Tgt Ion:146 Resp: 361970

Ion	Ratio	Lower	Upper
146	100		
148	63.4	51.0	76.6
111	42.8	34.0	51.0



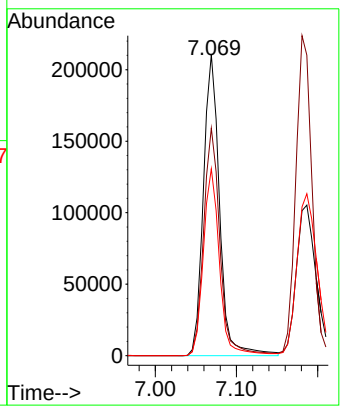


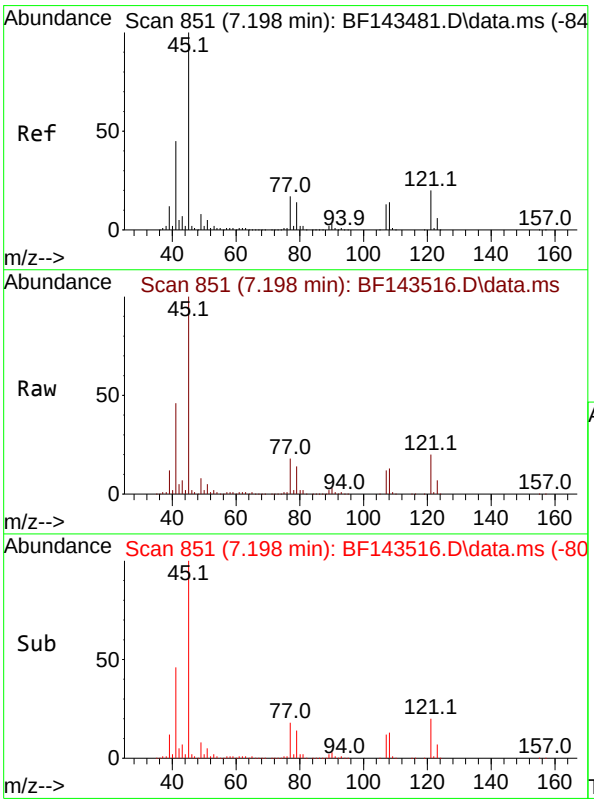
#15
Benzyl Alcohol
Concen: 40.117 ng
RT: 7.069 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 79 Resp: 291861

Ion	Ratio	Lower	Upper
79	100		
108	75.5	59.8	89.6
77	62.0	49.0	73.4

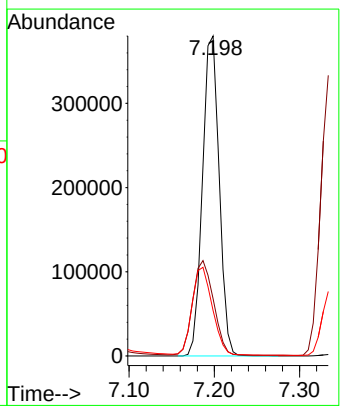


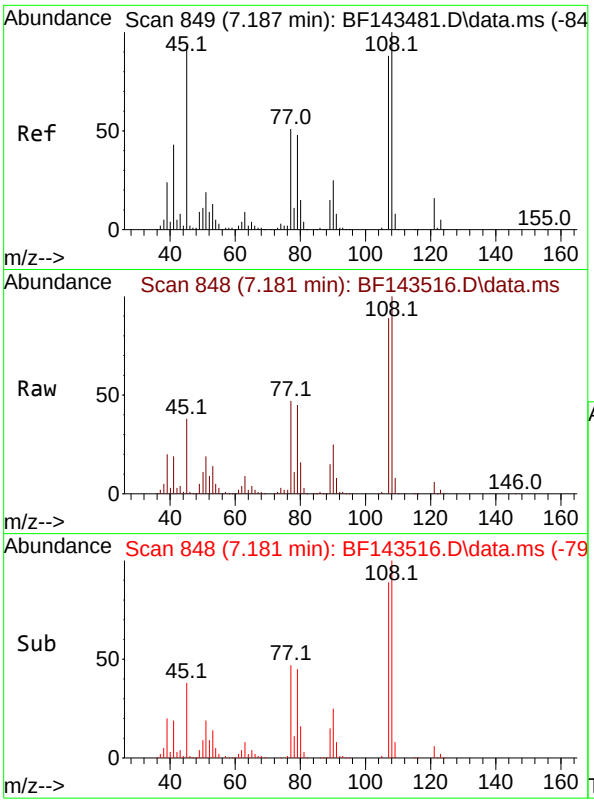


#16
2,2'-oxybis(1-Chloropropane)
Concen: 38.635 ng
RT: 7.198 min Scan# 851
Delta R.T. 0.000 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Tgt Ion: 45 Resp: 517064

Ion	Ratio	Lower	Upper
45	100		
77	17.9	0.0	37.9
79	14.2	0.0	34.7



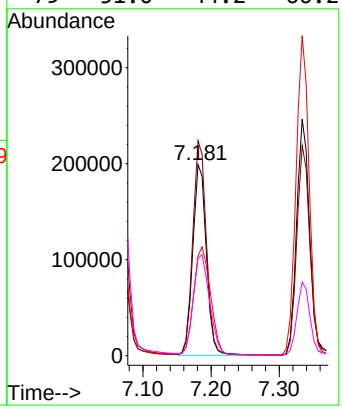


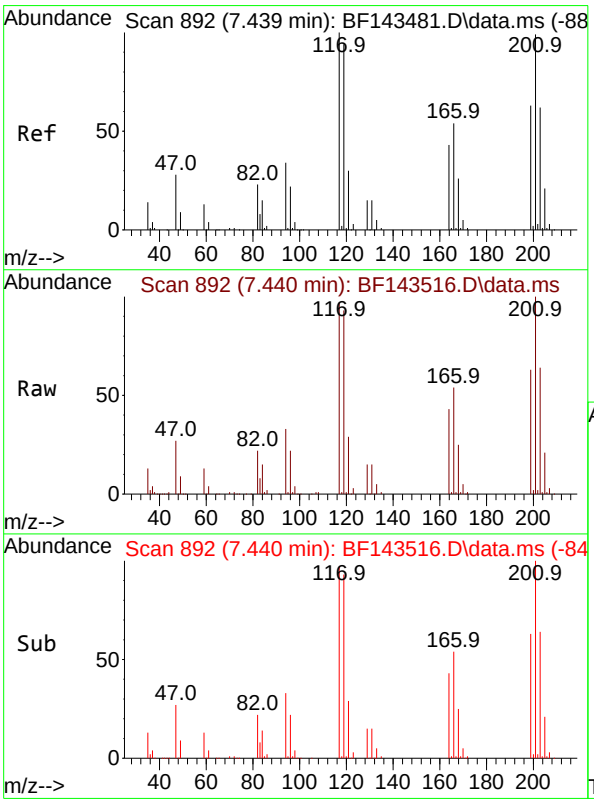
#17
2-Methylphenol
Concen: 39.635 ng
RT: 7.181 min Scan# 84
Delta R.T. -0.006 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:107 Resp: 276576

Ion	Ratio	Lower	Upper
107	100		
108	112.5	91.1	136.7
77	52.3	46.2	69.4
79	51.0	44.2	66.2

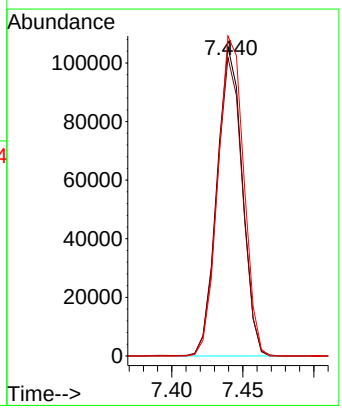


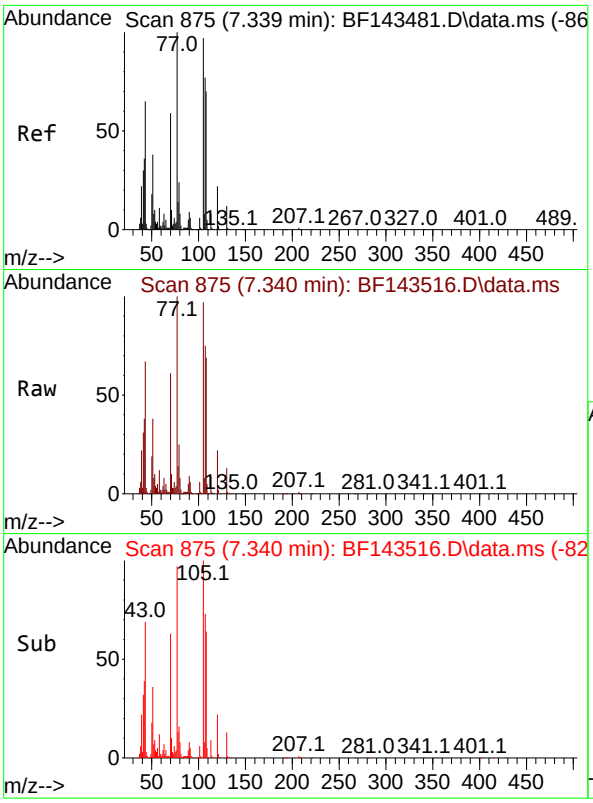


#18
Hexachloroethane
Concen: 39.240 ng
RT: 7.440 min Scan# 892
Delta R.T. -0.006 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Tgt Ion:117 Resp: 130737

Ion	Ratio	Lower	Upper
117	100		
119	96.5	75.4	113.0
201	103.5	79.0	118.4



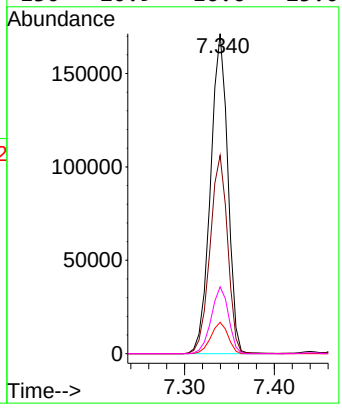


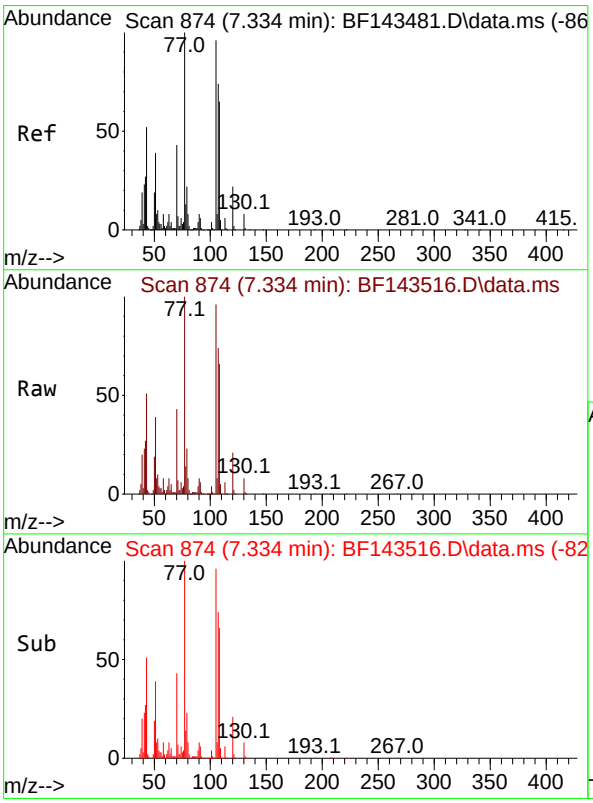
#19
n-Nitroso-di-n-propylamine
Concen: 38.648 ng
RT: 7.340 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 70 Resp: 229547

Ion	Ratio	Lower	Upper
70	100		
42	61.9	49.3	73.9
101	9.8	7.8	11.8
130	20.9	16.6	25.0

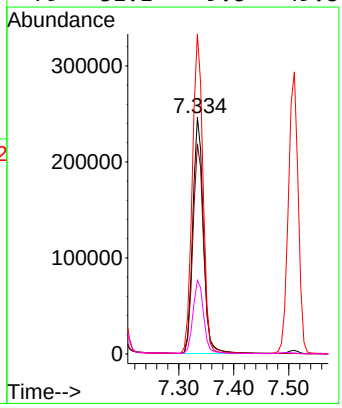


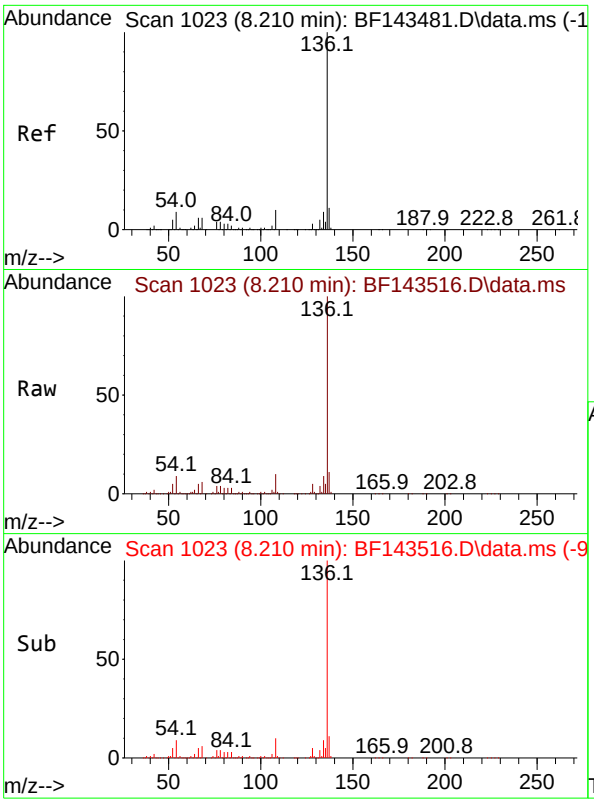


#20
3+4-Methylphenols
Concen: 39.557 ng
RT: 7.334 min Scan# 874
Delta R.T. -0.006 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Tgt Ion:107 Resp: 329524

Ion	Ratio	Lower	Upper
107	100		
108	88.8	68.4	108.4
77	135.3	116.1	156.1
79	31.1	9.8	49.8



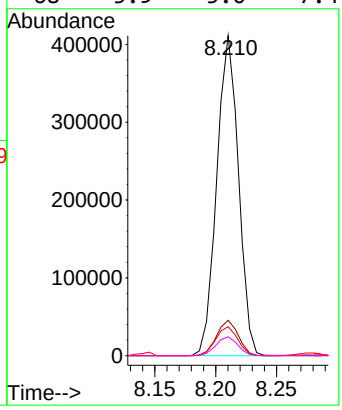


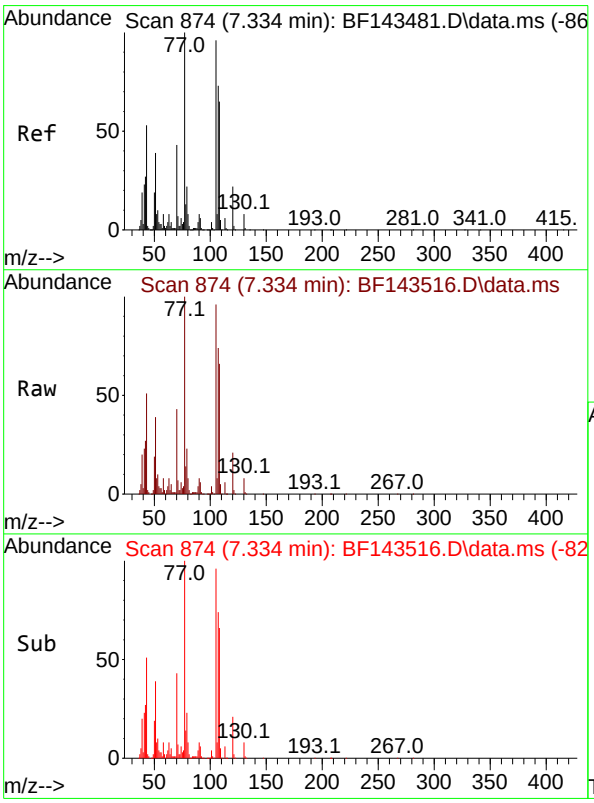
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.210 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:136 Resp: 510568

Ion	Ratio	Lower	Upper
136	100		
137	11.0	9.0	13.4
54	9.1	7.4	11.2
68	5.9	5.0	7.4

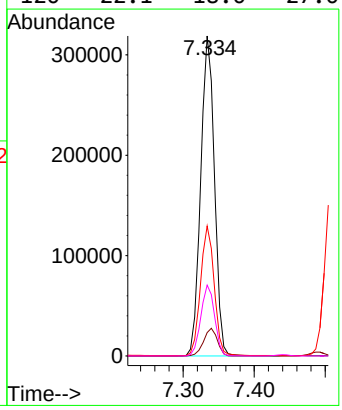


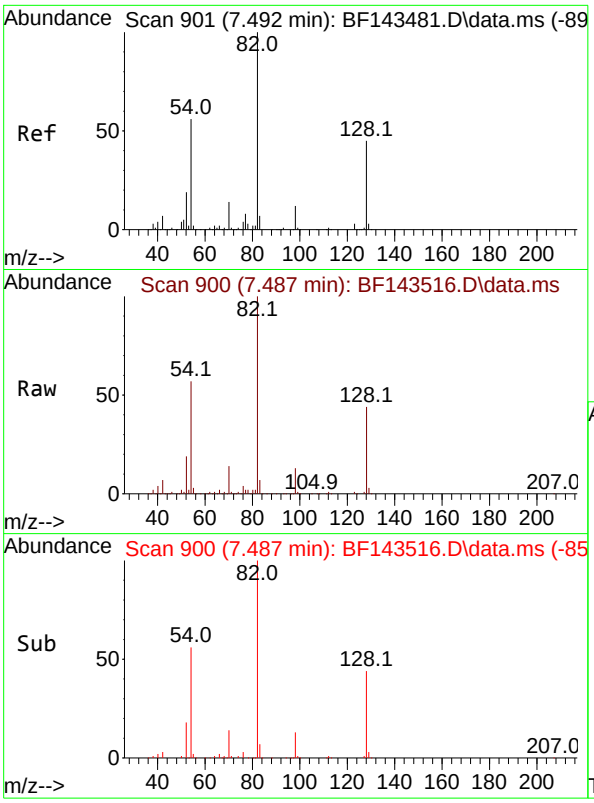


#22
Acetophenone
Concen: 39.094 ng
RT: 7.334 min Scan# 874
Delta R.T. -0.006 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Tgt Ion:105 Resp: 431226

Ion	Ratio	Lower	Upper
105	100		
71	7.3	5.9	8.9
51	40.6	32.5	48.7
120	22.1	18.0	27.0



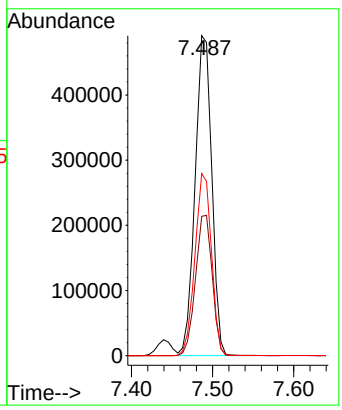


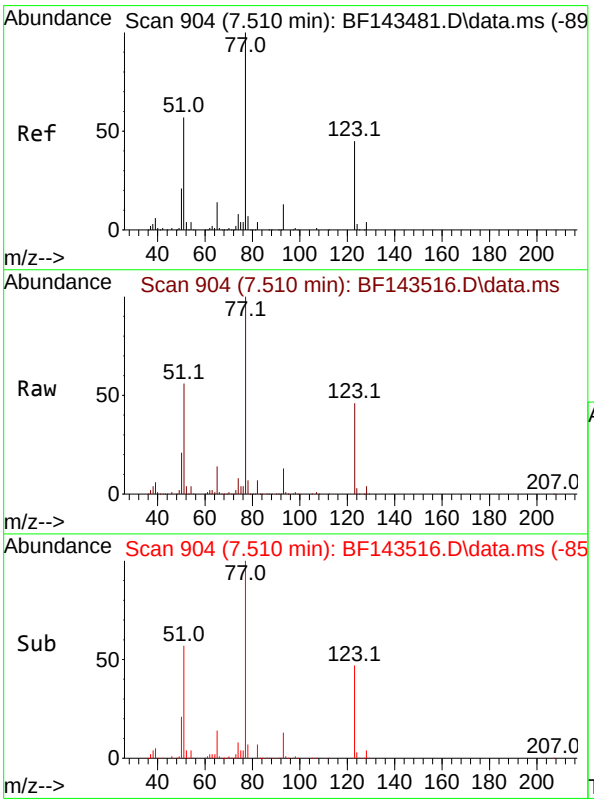
#23
Nitrobenzene-d5
Concen: 80.138 ng
RT: 7.487 min Scan# 9
Delta R.T. -0.012 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 82 Resp: 701155

Ion	Ratio	Lower	Upper
82	100		
128	43.5	35.5	53.3
54	56.9	44.3	66.5

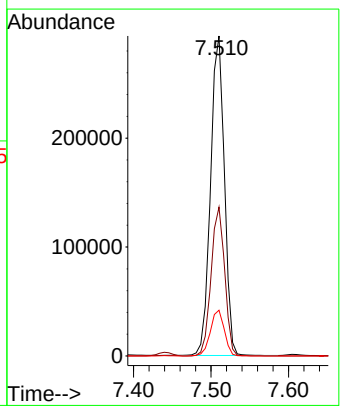


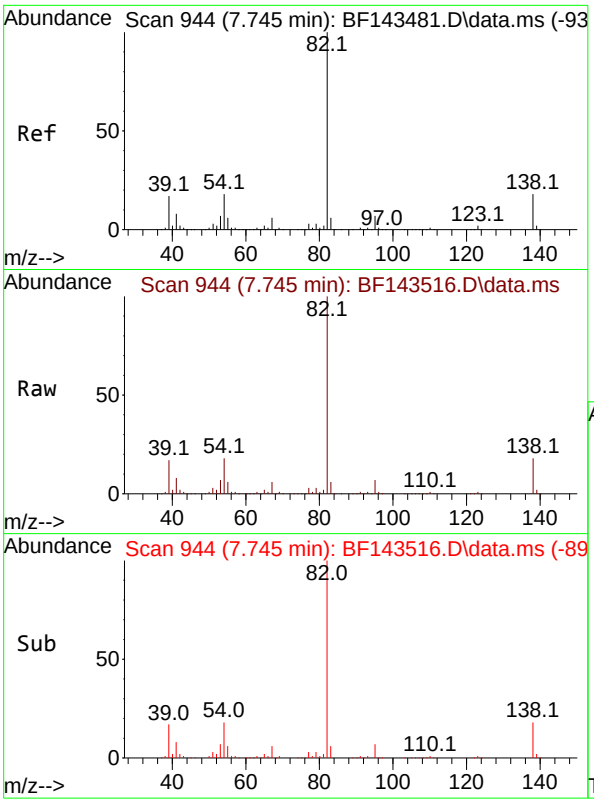


#24
Nitrobenzene
Concen: 40.446 ng
RT: 7.510 min Scan# 904
Delta R.T. -0.006 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Tgt Ion: 77 Resp: 364218

Ion	Ratio	Lower	Upper
77	100		
123	46.5	36.1	54.1
65	14.3	11.0	16.6



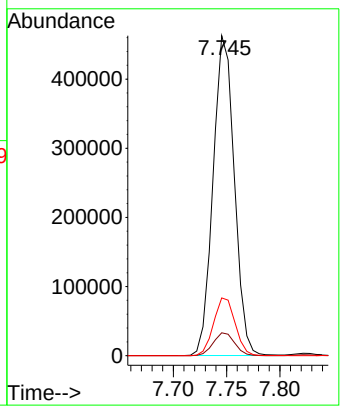


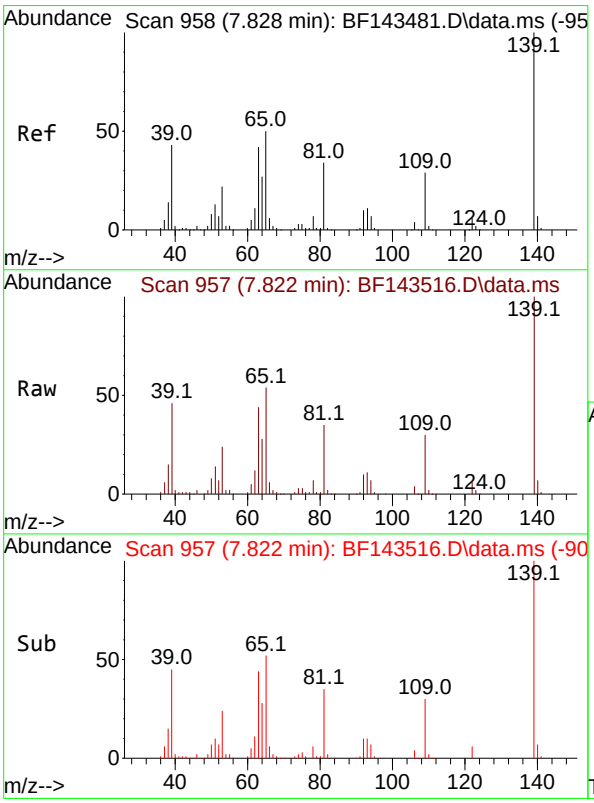
#25
Isophorone
Concen: 40.006 ng
RT: 7.745 min Scan# 94
Delta R.T. -0.012 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 82 Resp: 641626

Ion	Ratio	Lower	Upper
82	100		
95	7.1	5.8	8.8
138	18.0	14.2	21.4

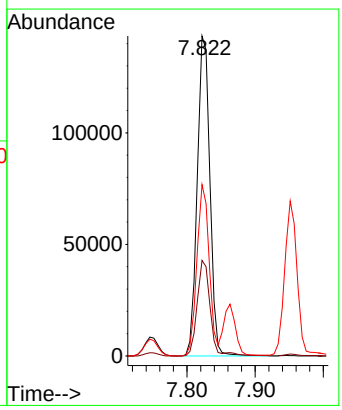


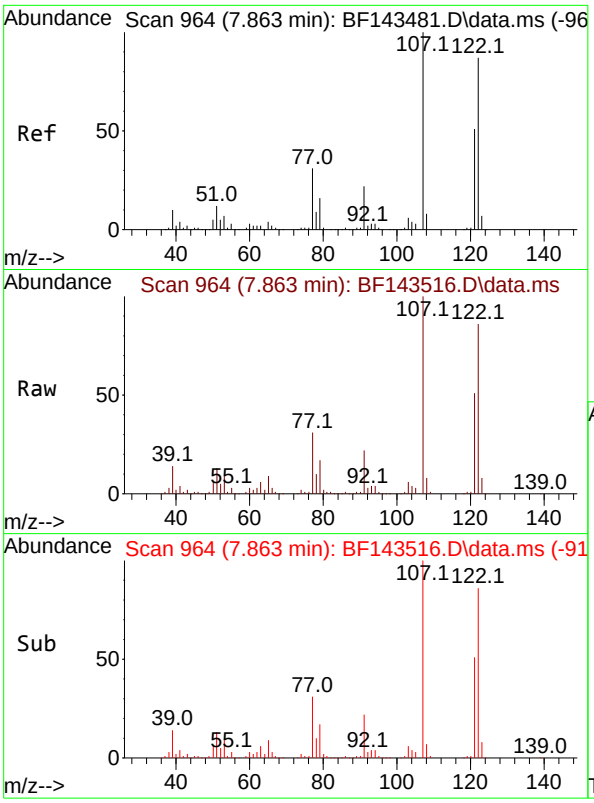


#26
2-Nitrophenol
Concen: 42.012 ng
RT: 7.822 min Scan# 957
Delta R.T. -0.006 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Tgt Ion:139 Resp: 185319

Ion	Ratio	Lower	Upper
139	100		
109	29.9	23.0	34.6
65	53.6	40.3	60.5



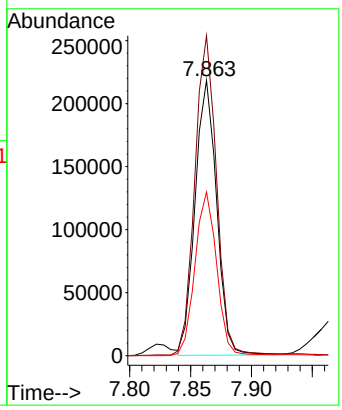


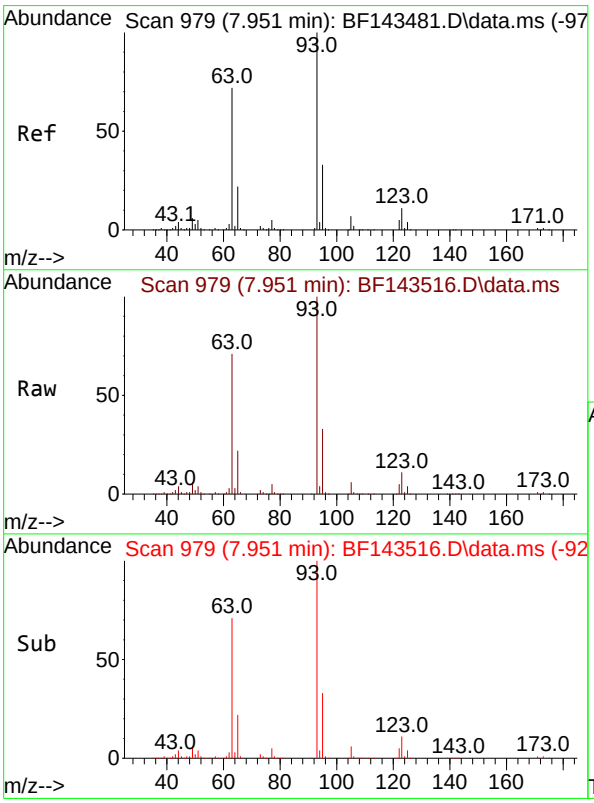
#27
2,4-Dimethylphenol
Concen: 39.152 ng
RT: 7.863 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:122 Resp: 269222

Ion	Ratio	Lower	Upper
122	100		
107	116.2	91.5	137.3
121	59.5	47.0	70.4

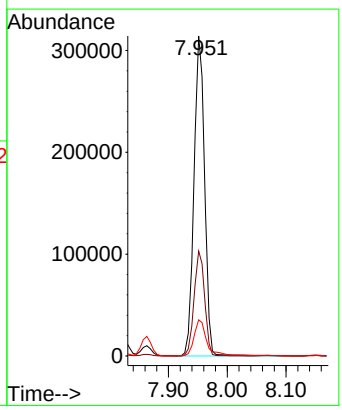


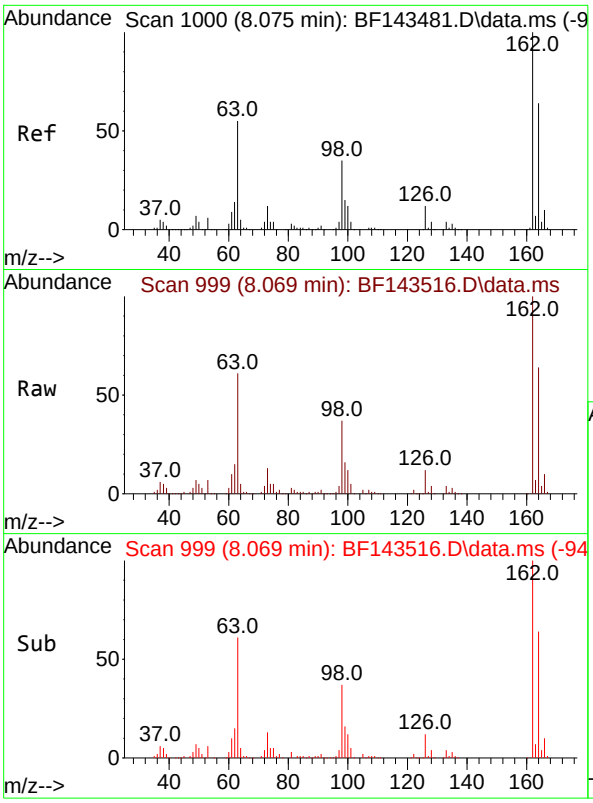


#28
bis(2-Chloroethoxy)methane
Concen: 39.952 ng
RT: 7.951 min Scan# 979
Delta R.T. -0.006 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Tgt Ion: 93 Resp: 393788

Ion	Ratio	Lower	Upper
93	100		
95	32.8	26.0	39.0
123	11.3	9.1	13.7



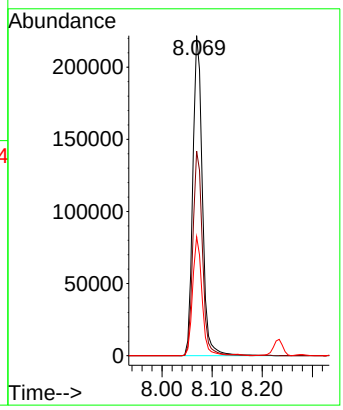


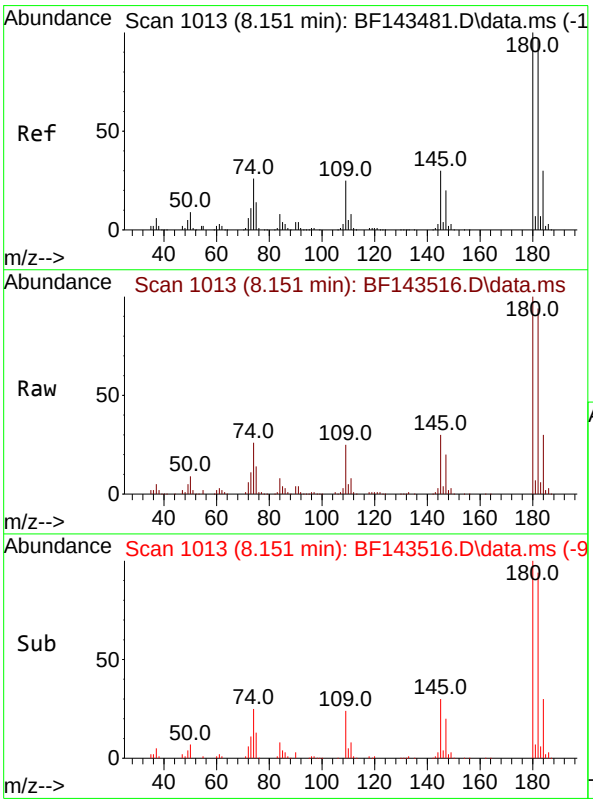
#29
2,4-Dichlorophenol
Concen: 39.911 ng
RT: 8.069 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:162 Resp: 293101

Ion	Ratio	Lower	Upper
162	100		
164	63.9	43.5	83.5
98	37.2	15.1	55.1

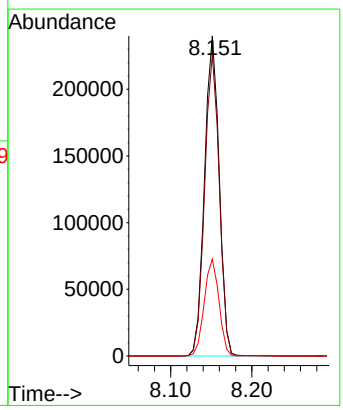


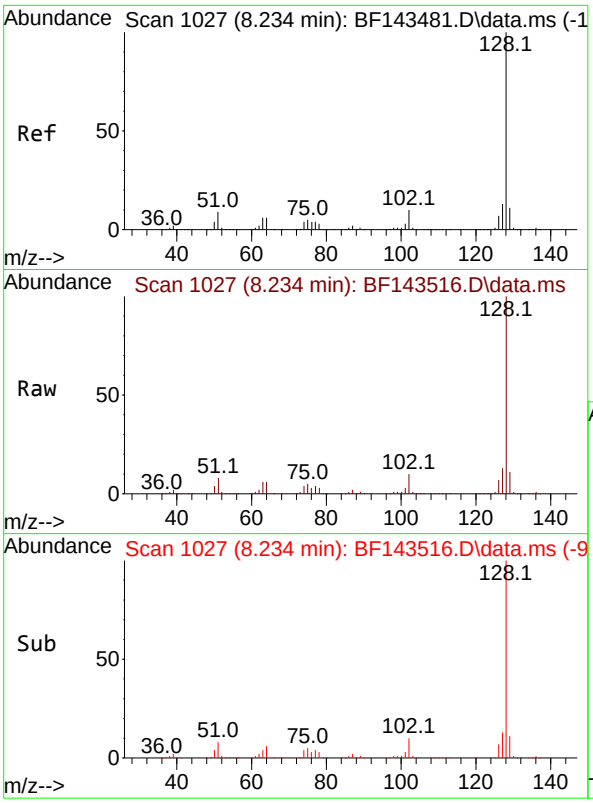


#30
1,2,4-Trichlorobenzene
Concen: 39.782 ng
RT: 8.151 min Scan# 1013
Delta R.T. 0.000 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Tgt Ion:180 Resp: 300378

Ion	Ratio	Lower	Upper
180	100		
182	94.3	76.6	114.8
145	30.3	24.3	36.5



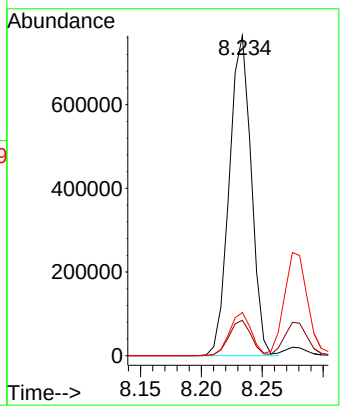


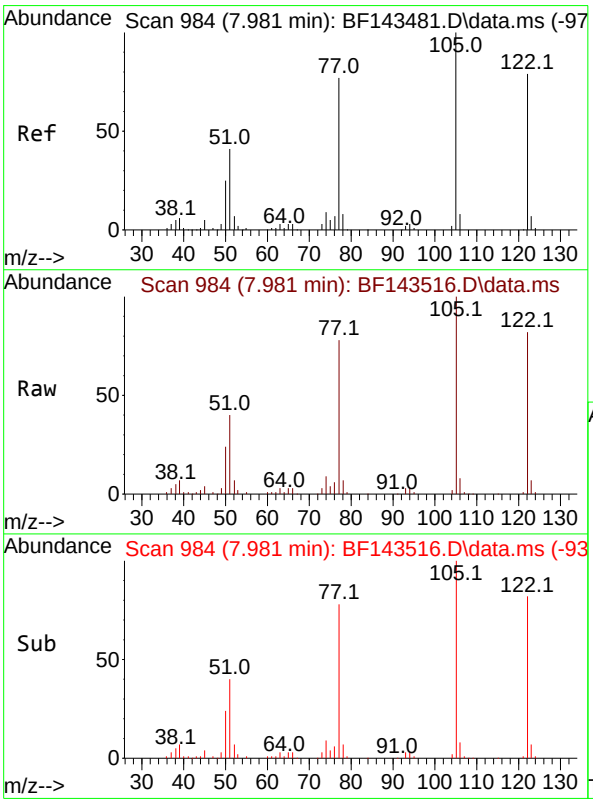
#31
Naphthalene
Concen: 39.092 ng
RT: 8.234 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:128 Resp: 958228

Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.8	13.2
127	13.5	10.6	16.0

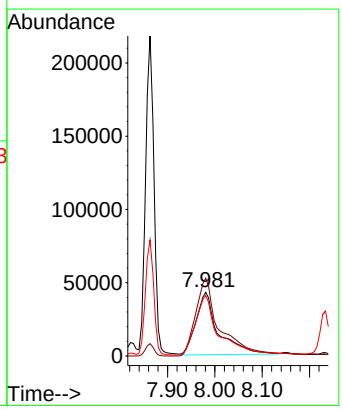


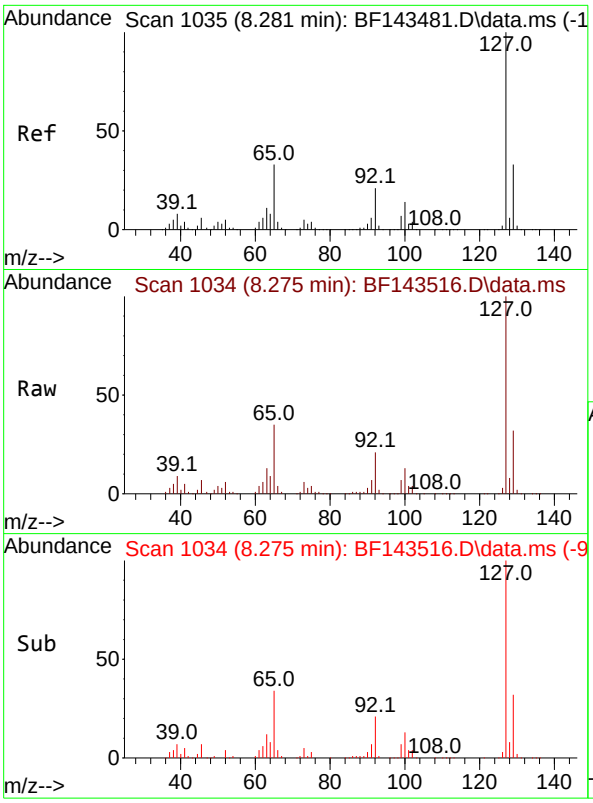


#32
Benzoic acid
Concen: 37.591 ng
RT: 7.981 min Scan# 984
Delta R.T. -0.029 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Tgt Ion:122 Resp: 141499

Ion	Ratio	Lower	Upper
122	100		
105	122.1	104.7	144.7
77	94.9	77.3	117.3



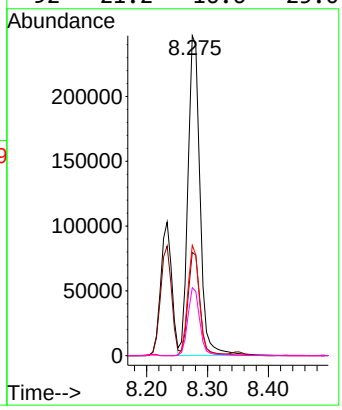


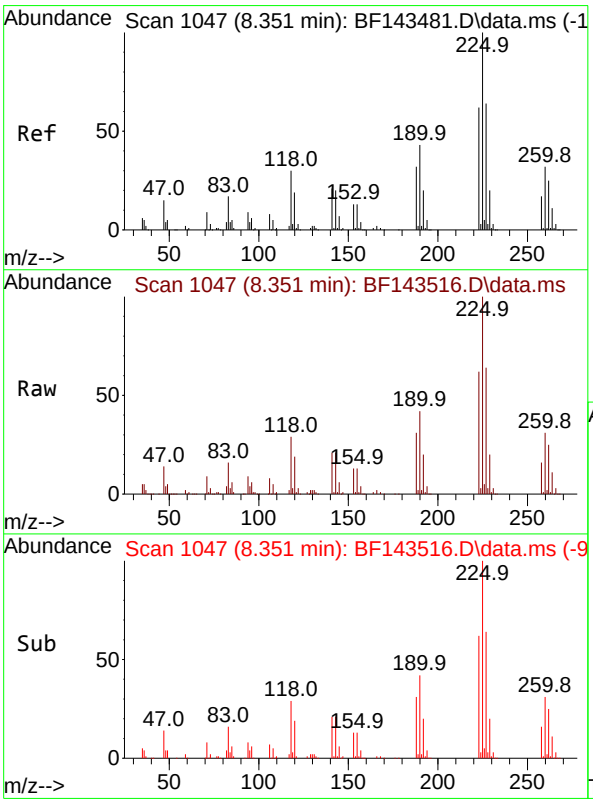
#33
4-Chloroaniline
Concen: 38.986 ng
RT: 8.275 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:127 Resp: 339182

Ion	Ratio	Lower	Upper
127	100		
129	32.3	26.1	39.1
65	34.5	26.2	39.2
92	21.2	16.6	25.0

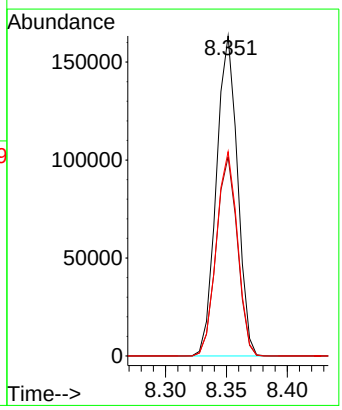


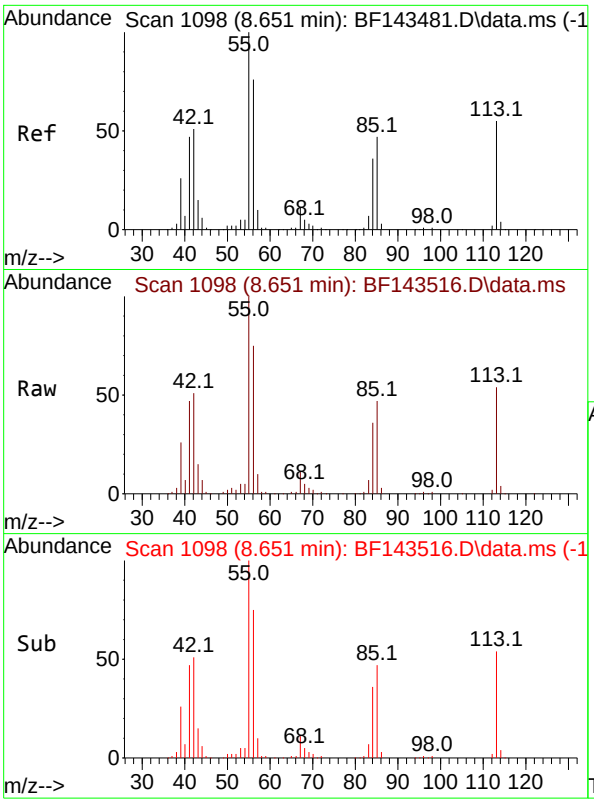


#34
Hexachlorobutadiene
Concen: 39.969 ng
RT: 8.351 min Scan# 1047
Delta R.T. 0.000 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Tgt Ion:225 Resp: 196894

Ion	Ratio	Lower	Upper
225	100		
223	62.2	49.9	74.9
227	63.8	50.9	76.3



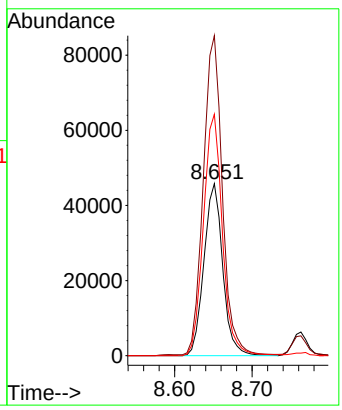


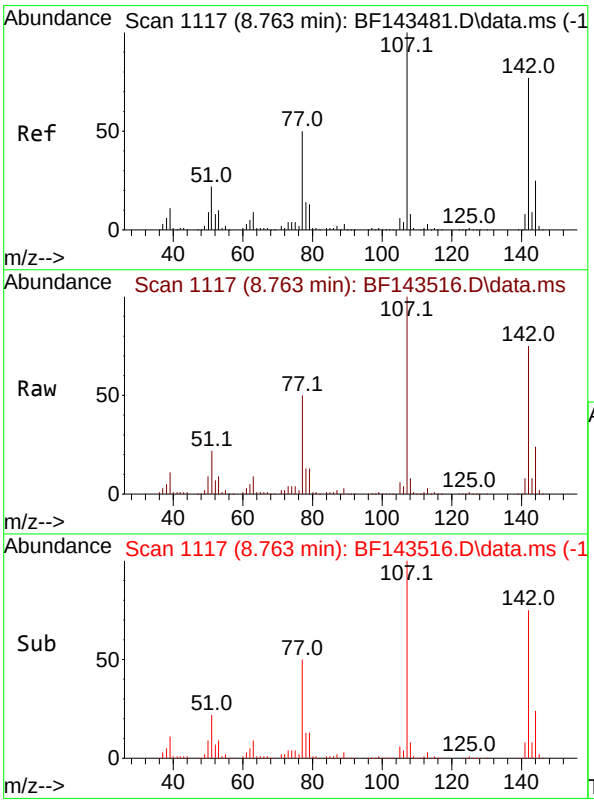
#35
Caprolactam
Concen: 43.799 ng
RT: 8.651 min Scan# 1
Delta R.T. -0.023 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:113 Resp: 77185

Ion	Ratio	Lower	Upper
113	100		
55	186.1	162.8	202.8
56	140.4	118.1	158.1

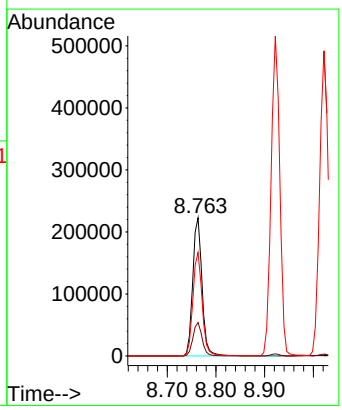


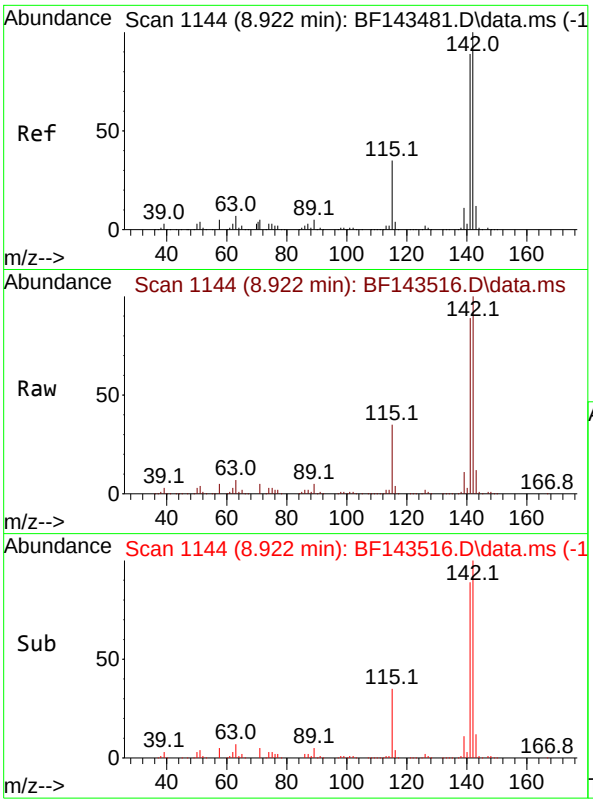


#36
4-Chloro-3-methylphenol
Concen: 40.394 ng
RT: 8.763 min Scan# 1117
Delta R.T. -0.006 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Tgt Ion:107 Resp: 297282

Ion	Ratio	Lower	Upper
107	100		
144	24.2	19.9	29.9
142	74.9	61.8	92.8



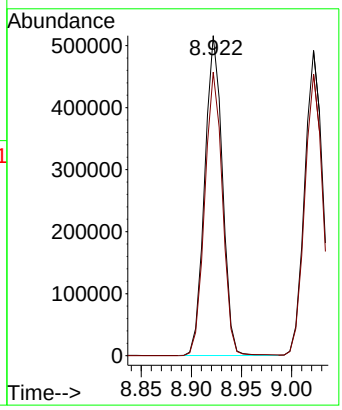


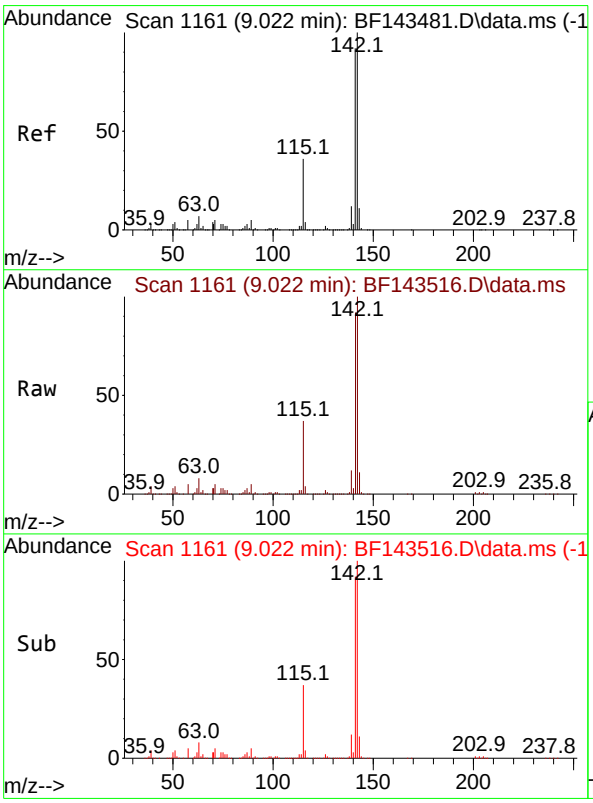
#37
2-Methylnaphthalene
Concen: 38.808 ng
RT: 8.922 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:142 Resp: 635344

Ion	Ratio	Lower	Upper
142	100		
141	88.6	71.0	106.4

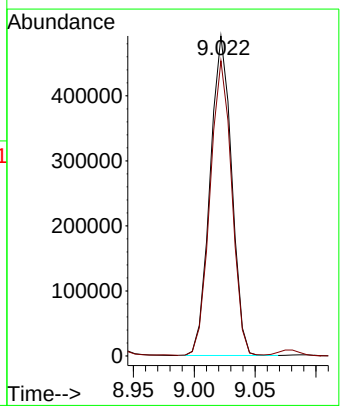


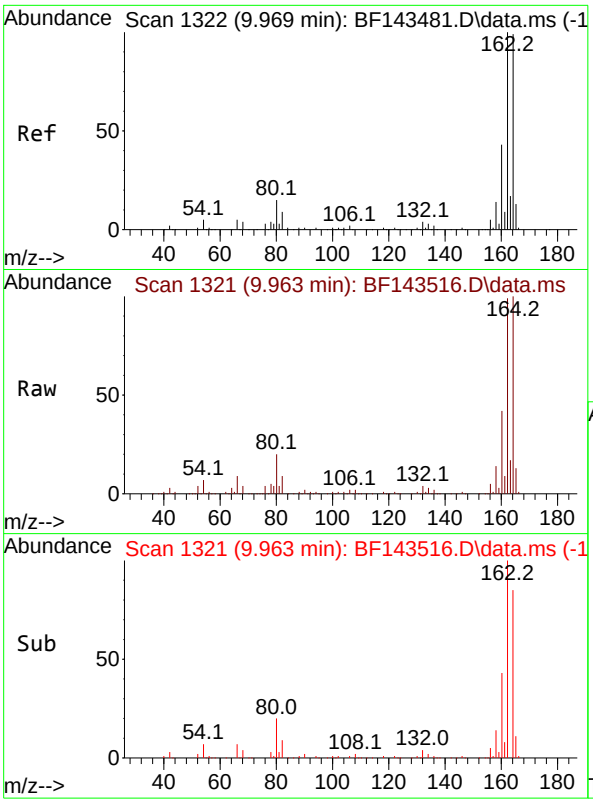


#38
1-Methylnaphthalene
Concen: 38.685 ng
RT: 9.022 min Scan# 1161
Delta R.T. -0.006 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Tgt Ion:142 Resp: 605817

Ion	Ratio	Lower	Upper
142	100		
141	92.3	73.3	109.9



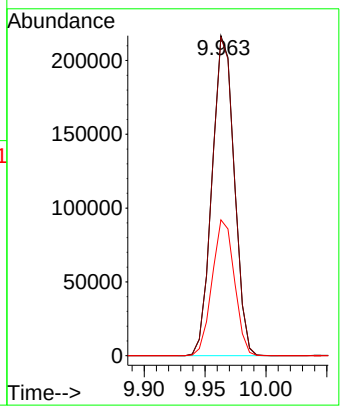


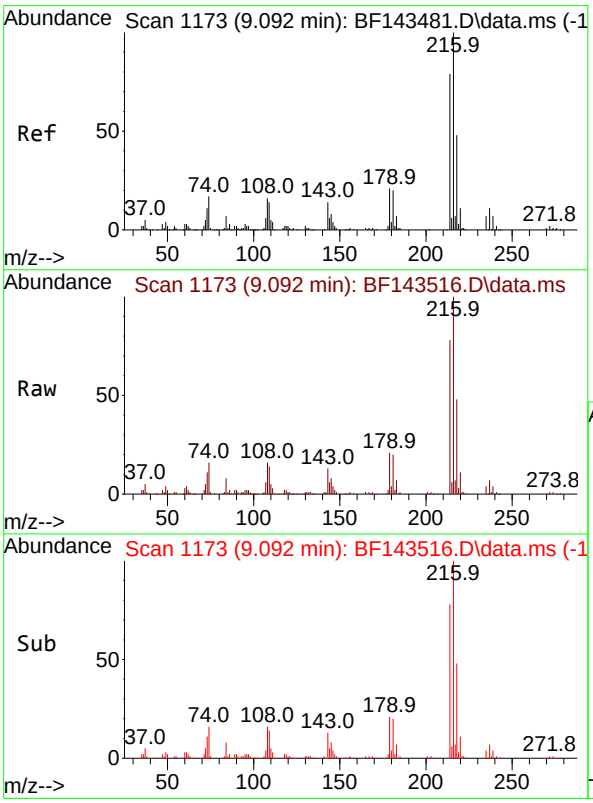
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.963 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:164 Resp: 274867

Ion	Ratio	Lower	Upper
164	100		
162	99.5	80.5	120.7
160	42.4	34.3	51.5

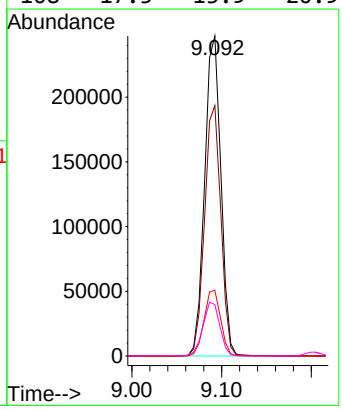


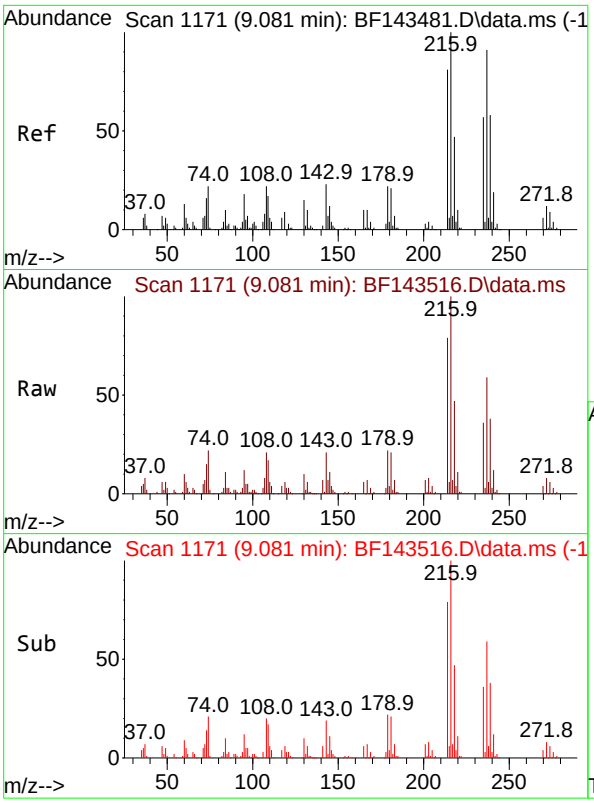


#40
1,2,4,5-Tetrachlorobenzene
Concen: 39.505 ng
RT: 9.092 min Scan# 1173
Delta R.T. 0.000 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Tgt Ion:216 Resp: 310596

Ion	Ratio	Lower	Upper
216	100		
214	78.4	63.4	95.0
179	20.9	16.5	24.7
108	17.5	13.9	20.9



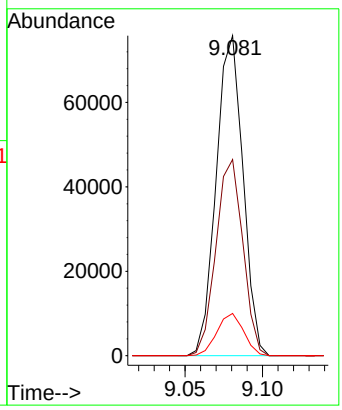


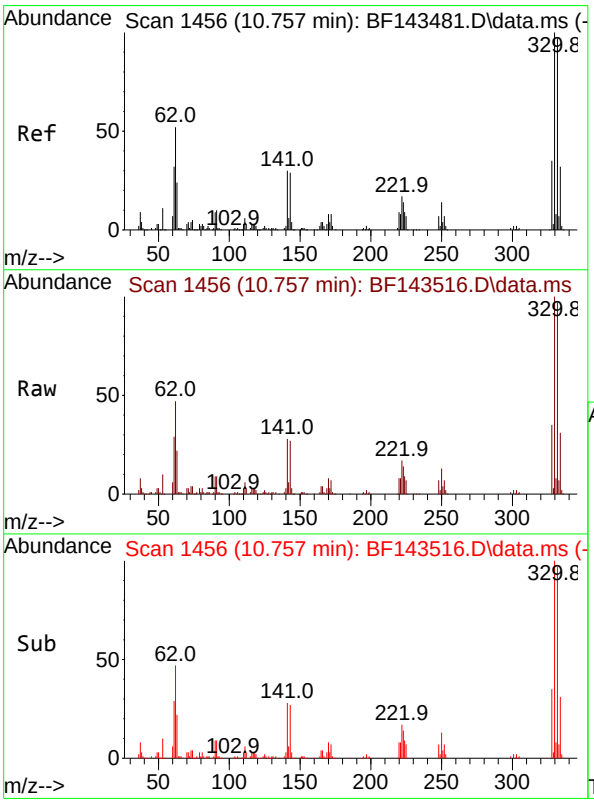
#41
Hexachlorocyclopentadiene
Concen: 33.894 ng
RT: 9.081 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:237 Resp: 91199

Ion	Ratio	Lower	Upper
237	100		
235	61.3	42.6	82.6
272	13.2	0.0	33.4

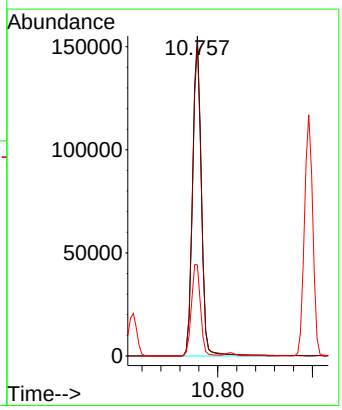


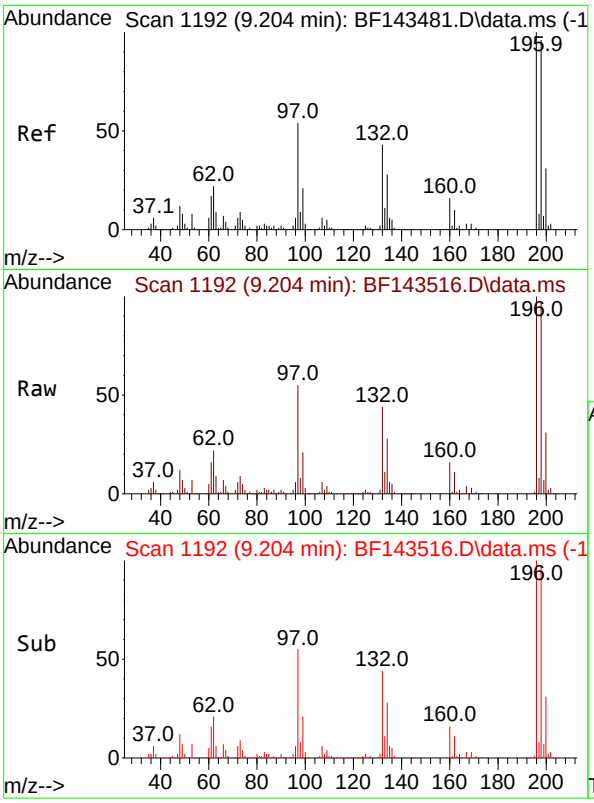


#42
2,4,6-Tribromophenol
Concen: 77.956 ng
RT: 10.757 min Scan# 1456
Delta R.T. -0.006 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Tgt Ion:330 Resp: 199460

Ion	Ratio	Lower	Upper
330	100		
332	97.7	78.0	117.0
141	29.7	23.7	35.5



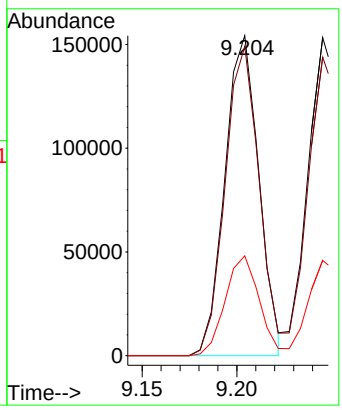


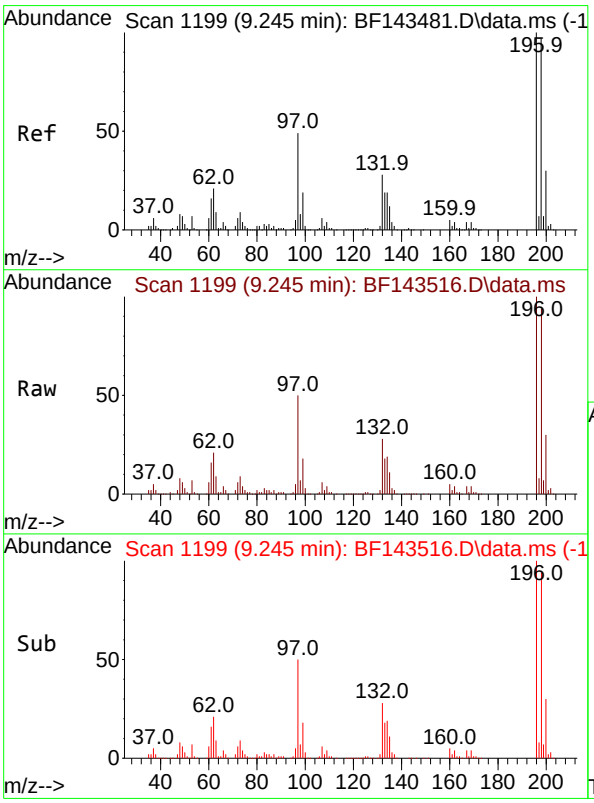
#43
2,4,6-Trichlorophenol
Concen: 39.825 ng
RT: 9.204 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:196 Resp: 192667

Ion	Ratio	Lower	Upper
196	100		
198	96.7	77.0	115.4
200	31.2	24.6	37.0

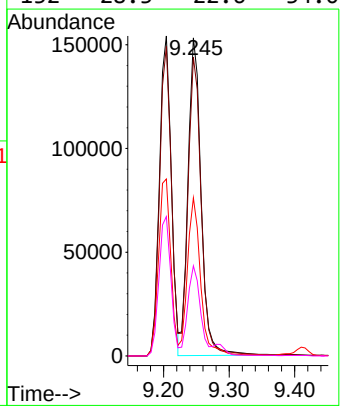


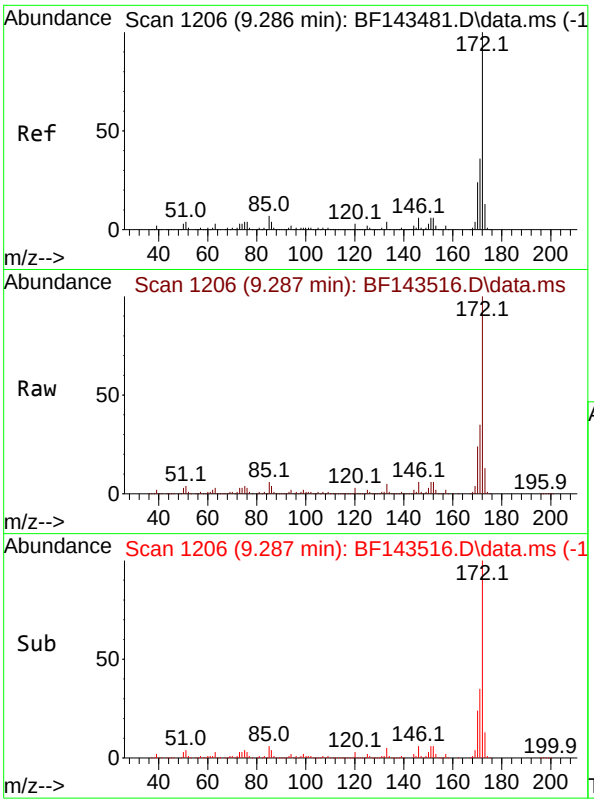


#44
2,4,5-Trichlorophenol
Concen: 40.163 ng
RT: 9.245 min Scan# 1199
Delta R.T. -0.006 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Tgt Ion:196 Resp: 212240

Ion	Ratio	Lower	Upper
196	100		
198	93.9	77.3	115.9
97	49.7	40.0	60.0
132	28.3	22.6	34.0



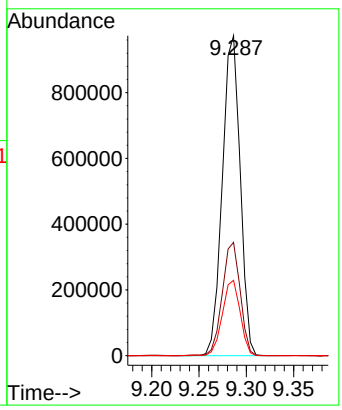


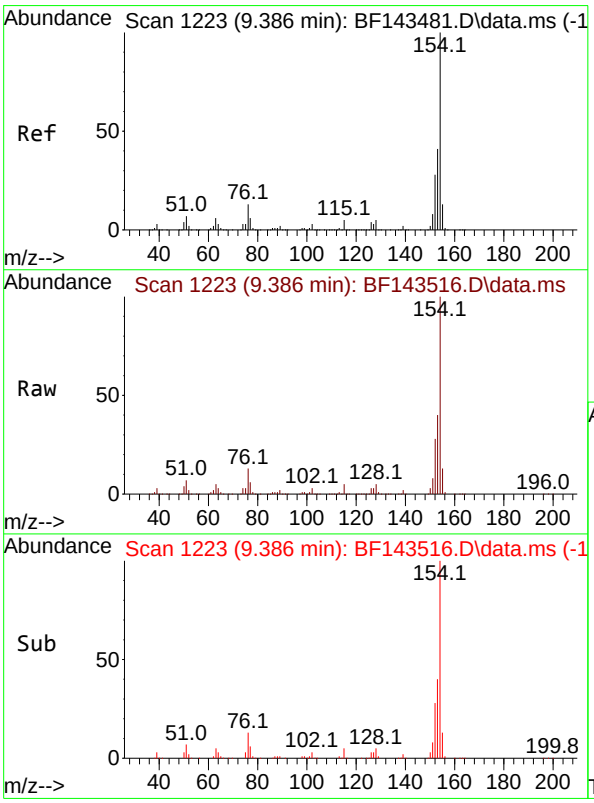
#45
2-Fluorobiphenyl
Concen: 76.887 ng
RT: 9.287 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:172 Resp: 1278754

Ion	Ratio	Lower	Upper
172	100		
171	35.4	28.8	43.2
170	23.5	18.8	28.2

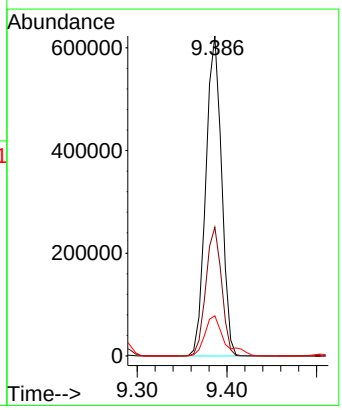


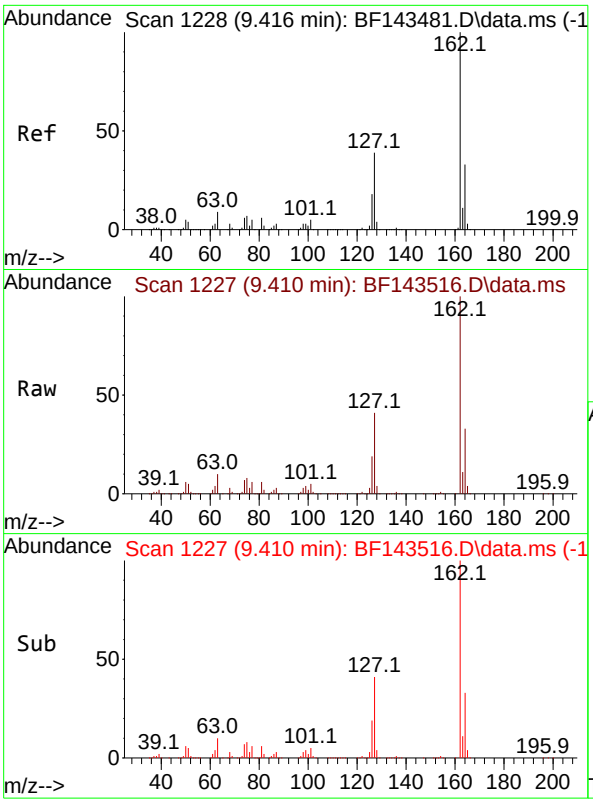


#46
1,1'-Biphenyl
Concen: 38.879 ng
RT: 9.386 min Scan# 1223
Delta R.T. -0.006 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Tgt Ion:154 Resp: 758507

Ion	Ratio	Lower	Upper
154	100		
153	40.2	20.6	60.6
76	12.6	0.0	33.0



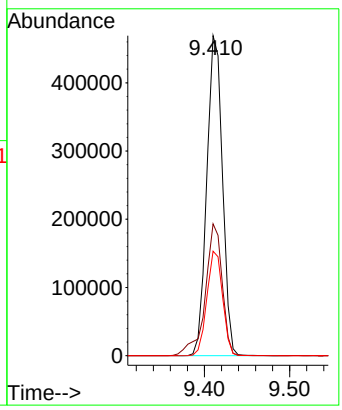


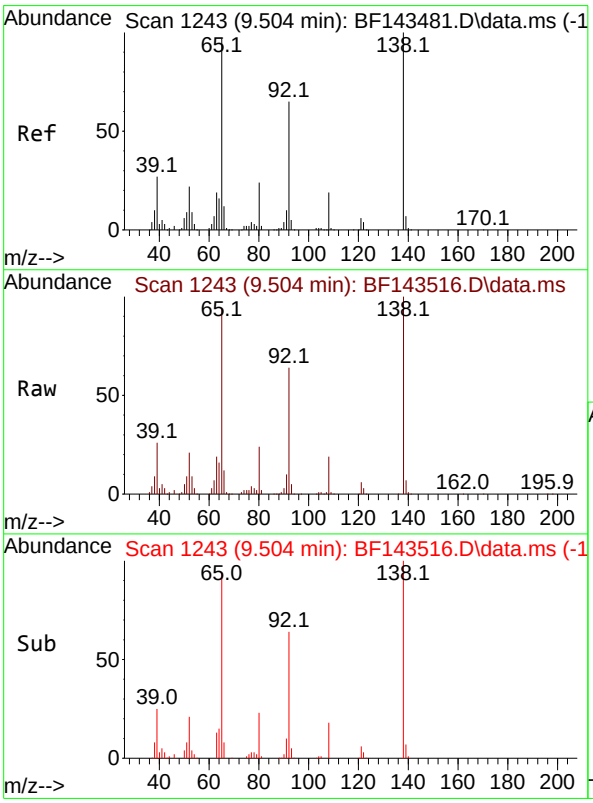
#47
2-Chloronaphthalene
Concen: 39.061 ng
RT: 9.410 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:162 Resp: 597936

Ion	Ratio	Lower	Upper
162	100		
127	41.2	31.8	47.6
164	32.7	26.4	39.6

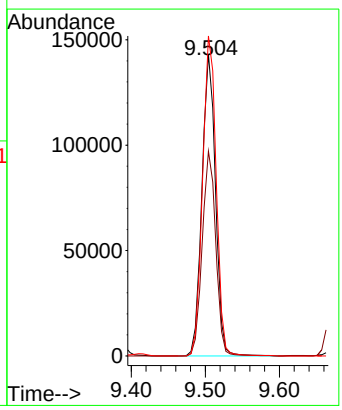


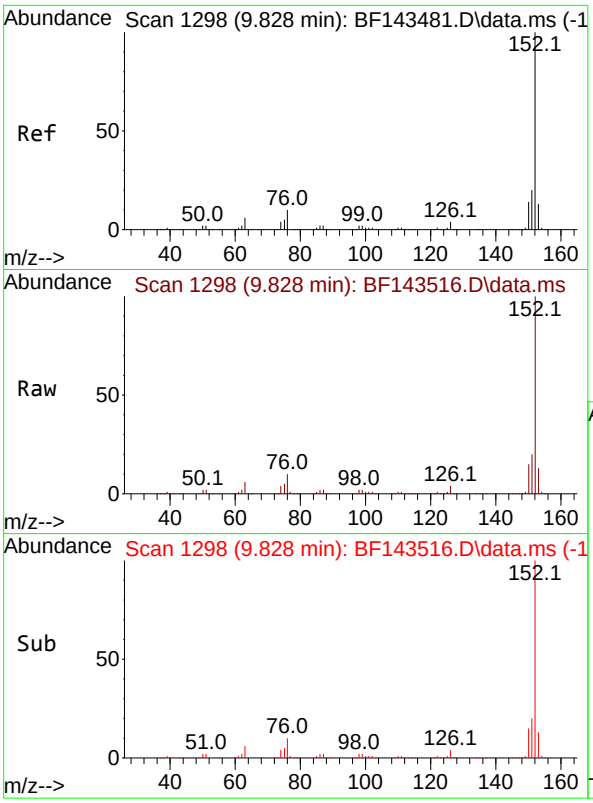


#48
2-Nitroaniline
Concen: 40.640 ng
RT: 9.504 min Scan# 1243
Delta R.T. -0.006 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Tgt Ion: 65 Resp: 182065

Ion	Ratio	Lower	Upper
65	100		
92	67.9	53.8	80.6
138	106.0	82.4	123.6



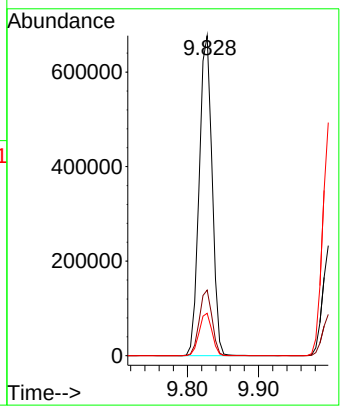


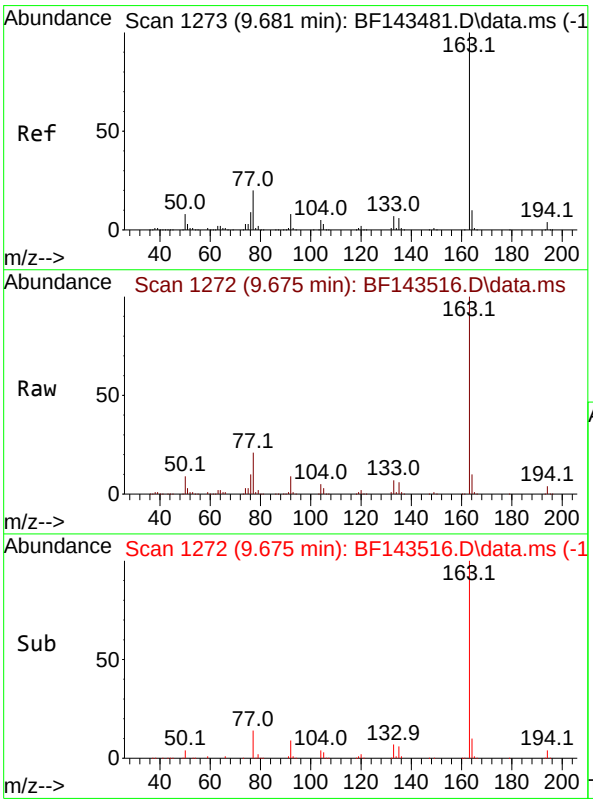
#49
Acenaphthylene
Concen: 39.059 ng
RT: 9.828 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:152 Resp: 856096

Ion	Ratio	Lower	Upper
152	100		
151	20.5	16.2	24.4
153	13.2	10.6	15.8

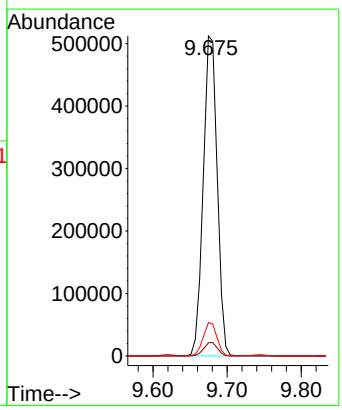


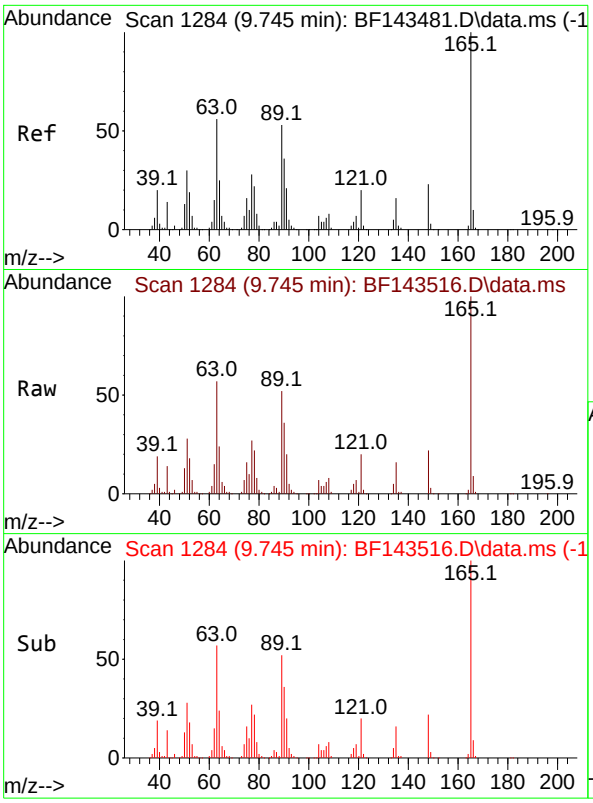


#50
Dimethylphthalate
Concen: 40.583 ng
RT: 9.675 min Scan# 1272
Delta R.T. -0.006 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Tgt Ion:163 Resp: 671826

Ion	Ratio	Lower	Upper
163	100		
194	4.1	3.4	5.0
164	10.4	8.2	12.2



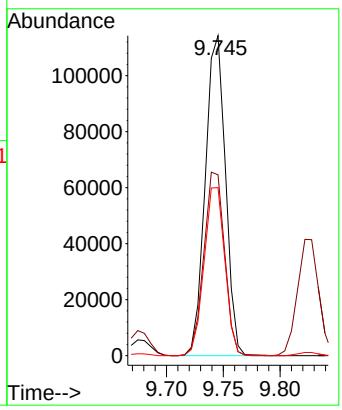


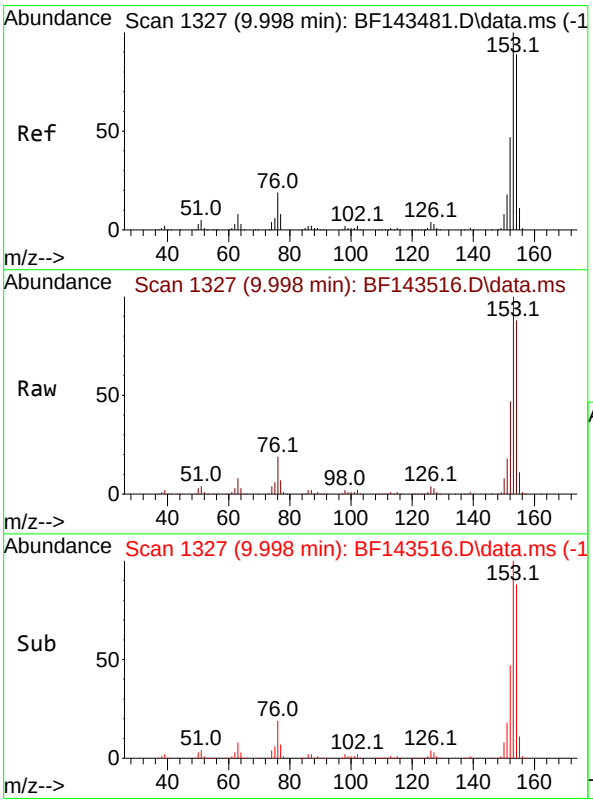
#51
2,6-Dinitrotoluene
Concen: 41.159 ng
RT: 9.745 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:165 Resp: 141216

Ion	Ratio	Lower	Upper
165	100		
63	56.5	45.0	67.6
89	52.5	42.5	63.7

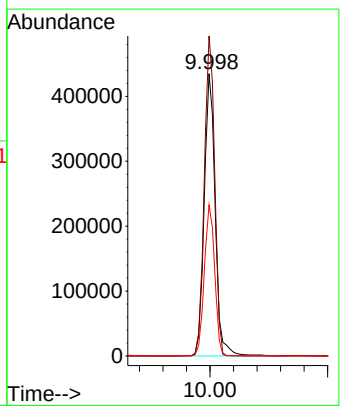


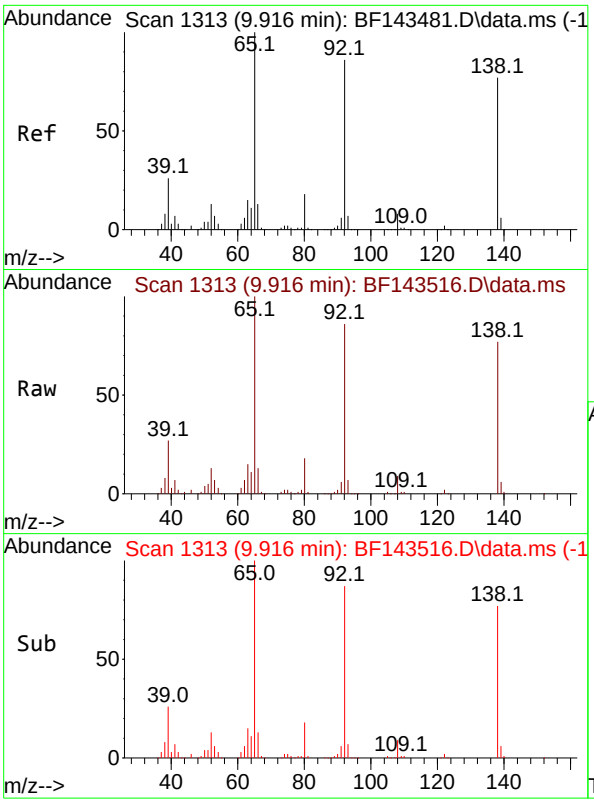


#52
Acenaphthene
Concen: 38.011 ng
RT: 9.998 min Scan# 1327
Delta R.T. -0.006 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Tgt Ion:154 Resp: 565670

Ion	Ratio	Lower	Upper
154	100		
153	113.4	89.5	134.3
152	53.5	42.5	63.7



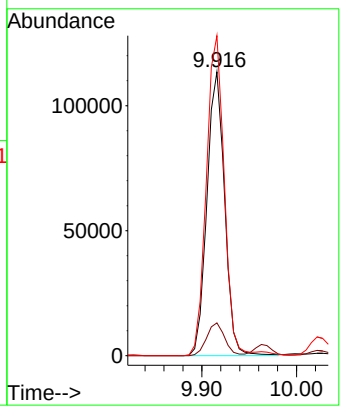


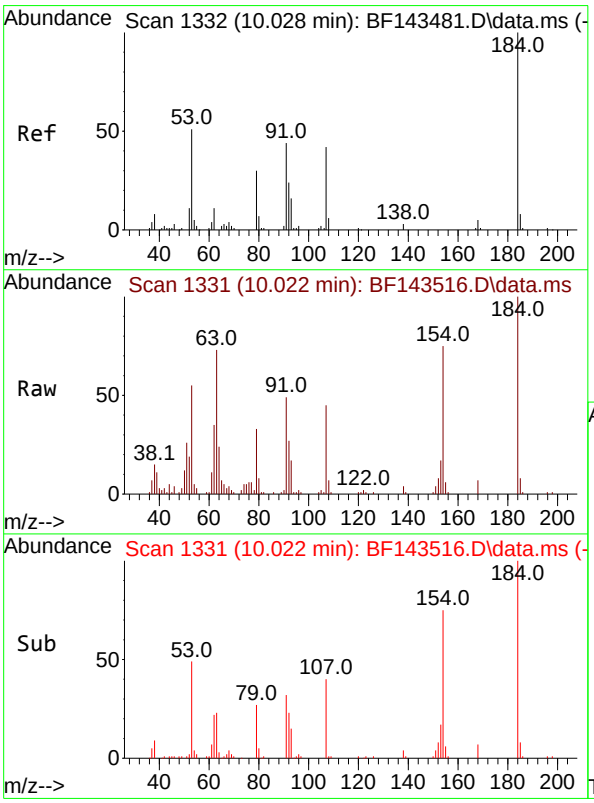
#53
3-Nitroaniline
Concen: 39.678 ng
RT: 9.916 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:138 Resp: 147101

Ion	Ratio	Lower	Upper
138	100		
108	11.6	8.6	13.0
92	112.7	89.8	134.8

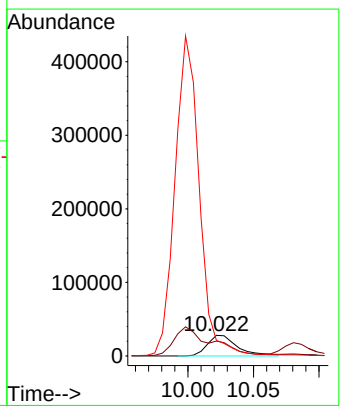


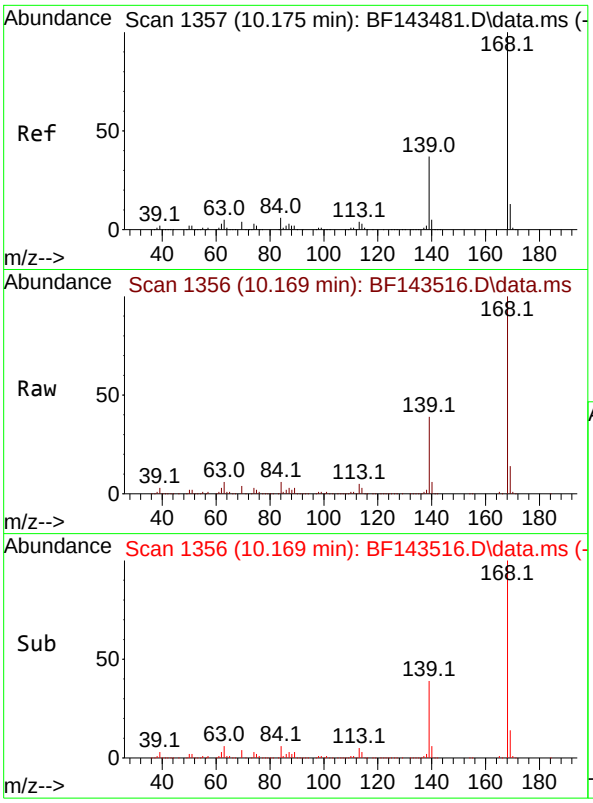


#54
2,4-Dinitrophenol
Concen: 28.170 ng
RT: 10.022 min Scan# 1331
Delta R.T. -0.006 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Tgt Ion:184 Resp: 44950

Ion	Ratio	Lower	Upper
184	100		
63	72.5	52.6	78.8
154	74.9	51.0	76.4



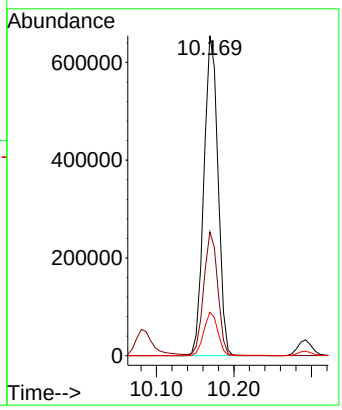


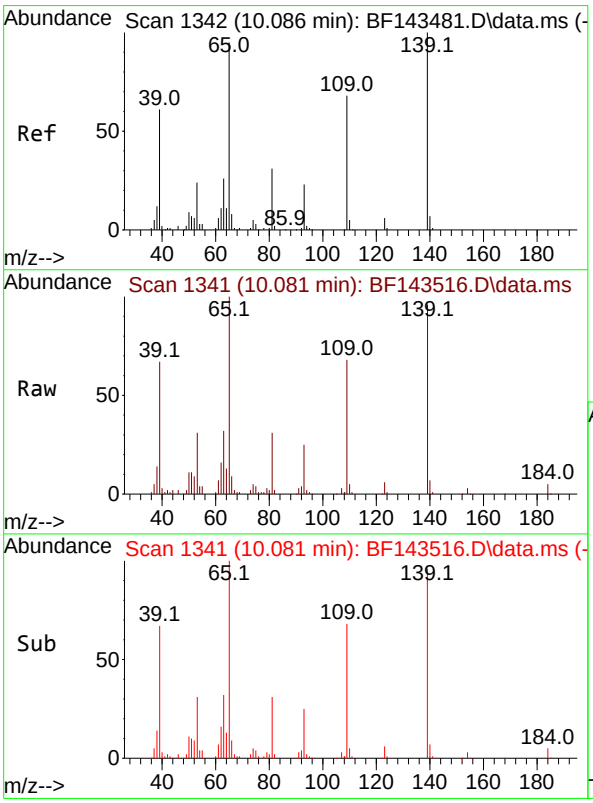
#55
Dibenzofuran
Concen: 38.919 ng
RT: 10.169 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:168 Resp: 825740

Ion	Ratio	Lower	Upper
168	100		
139	38.7	29.8	44.6
169	13.6	10.8	16.2

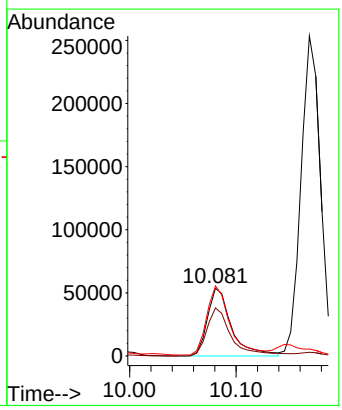


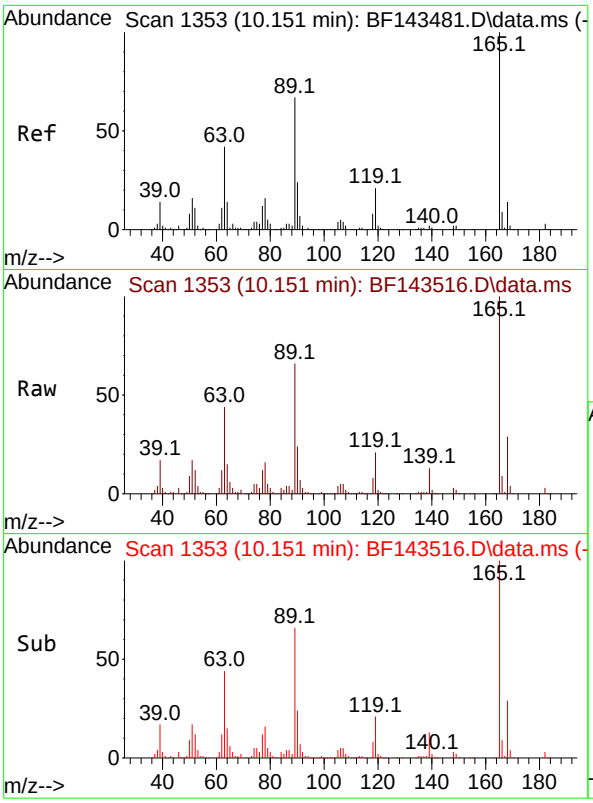


#56
4-Nitrophenol
Concen: 38.203 ng
RT: 10.081 min Scan# 1341
Delta R.T. -0.005 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Tgt Ion:139 Resp: 84274

Ion	Ratio	Lower	Upper
139	100		
109	71.0	48.2	88.2
65	103.7	75.8	115.8



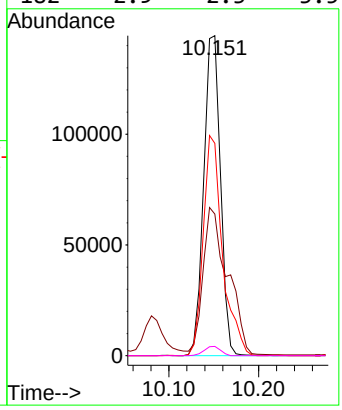


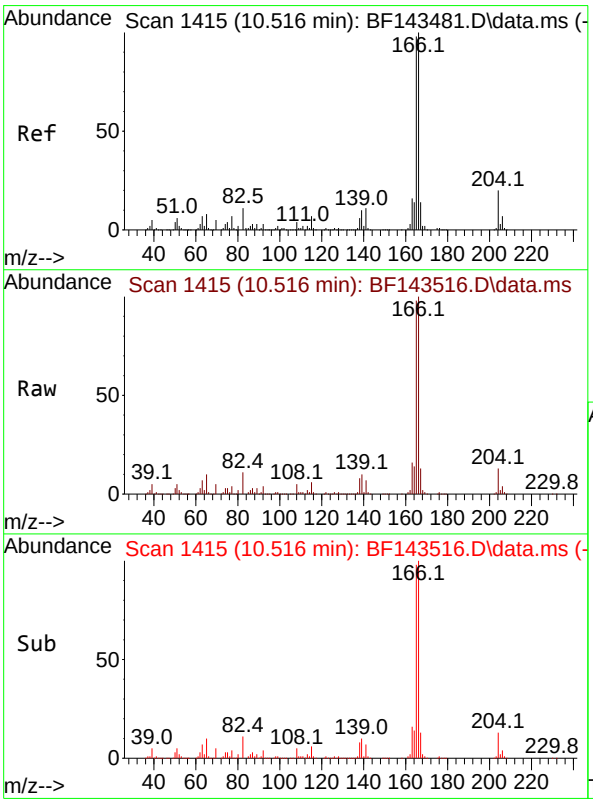
#57
2,4-Dinitrotoluene
Concen: 40.880 ng
RT: 10.151 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:165 Resp: 187283

Ion	Ratio	Lower	Upper
165	100		
63	44.2	34.9	52.3
89	66.4	53.3	79.9
182	2.9	2.3	3.5

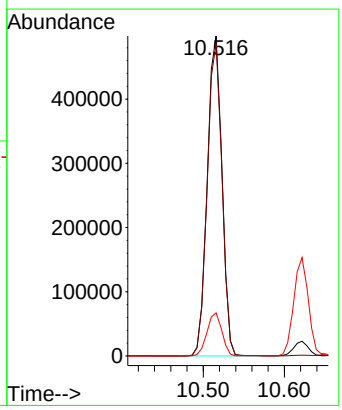


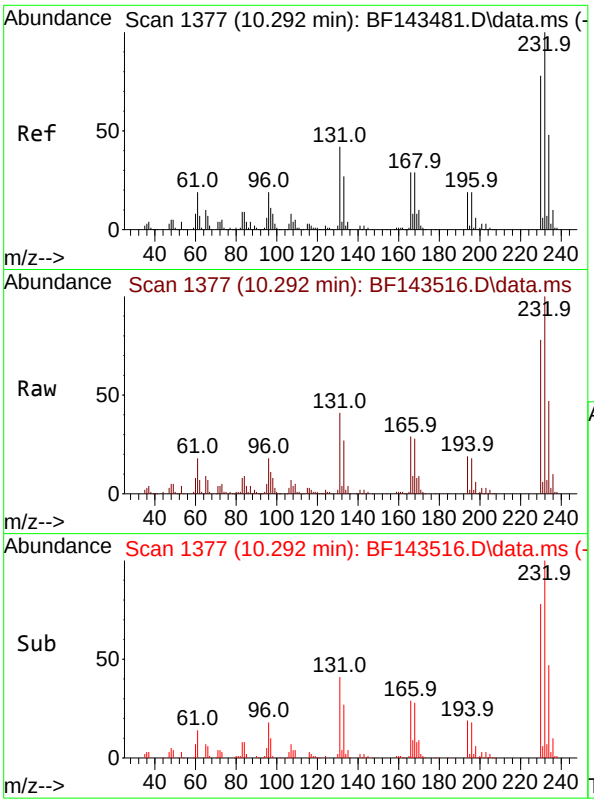


#58
Fluorene
Concen: 38.288 ng
RT: 10.516 min Scan# 1415
Delta R.T. -0.006 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Tgt Ion:166 Resp: 625227

Ion	Ratio	Lower	Upper
166	100		
165	97.6	78.3	117.5
167	13.4	11.0	16.4



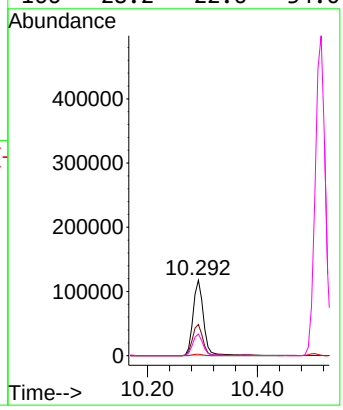


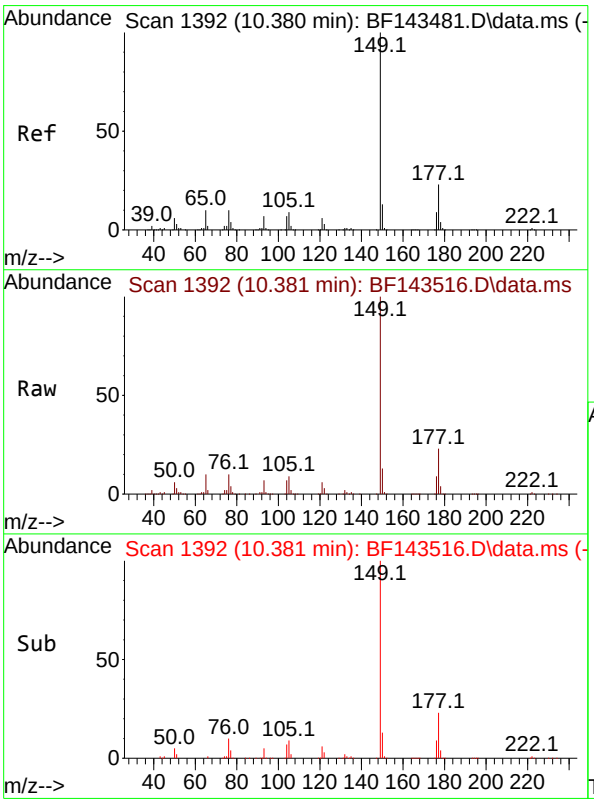
#59
2,3,4,6-Tetrachlorophenol
Concen: 40.017 ng
RT: 10.292 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:232 Resp: 157108

Ion	Ratio	Lower	Upper
232	100		
131	41.1	32.7	49.1
130	1.9	1.6	2.4
166	28.2	22.6	34.0

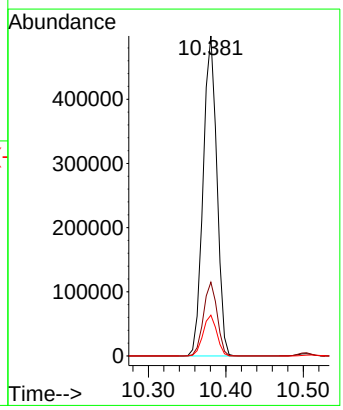


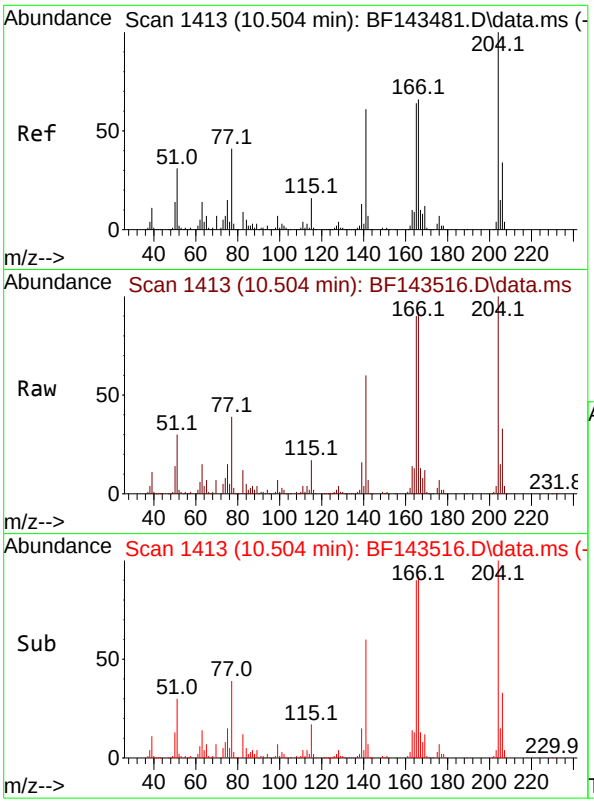


#60
Diethylphthalate
Concen: 41.355 ng
RT: 10.381 min Scan# 1392
Delta R.T. -0.006 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Tgt Ion:149 Resp: 613793

Ion	Ratio	Lower	Upper
149	100		
177	23.0	18.3	27.5
150	12.7	10.3	15.5



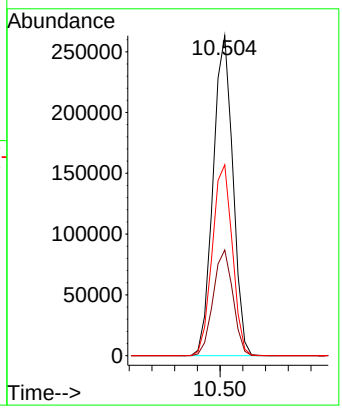


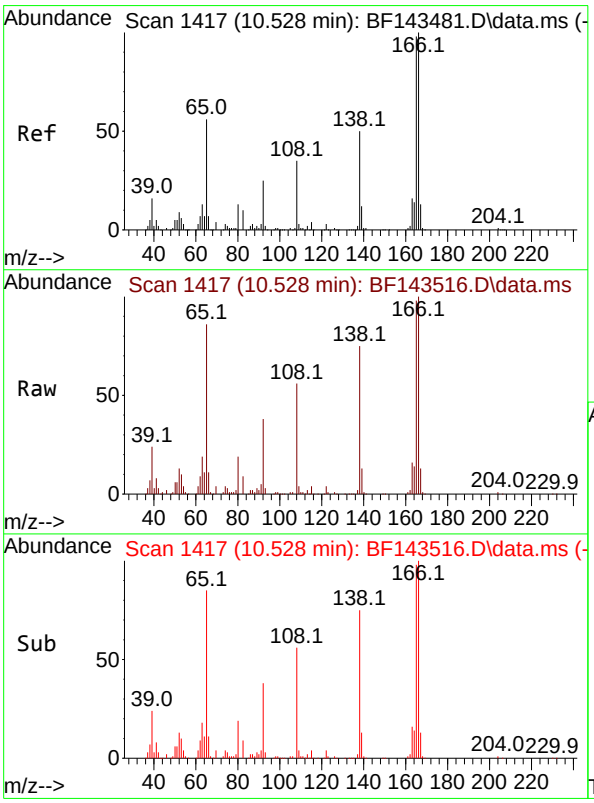
#61
4-Chlorophenyl-phenylether
Concen: 38.987 ng
RT: 10.504 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:204 Resp: 318396

Ion	Ratio	Lower	Upper
204	100		
206	33.1	27.0	40.4
141	59.6	48.7	73.1

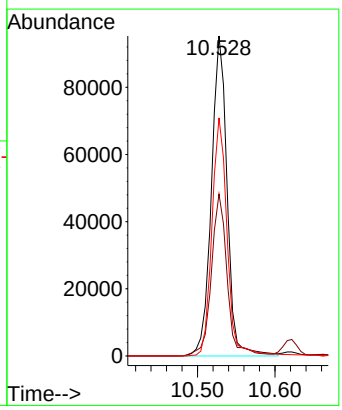


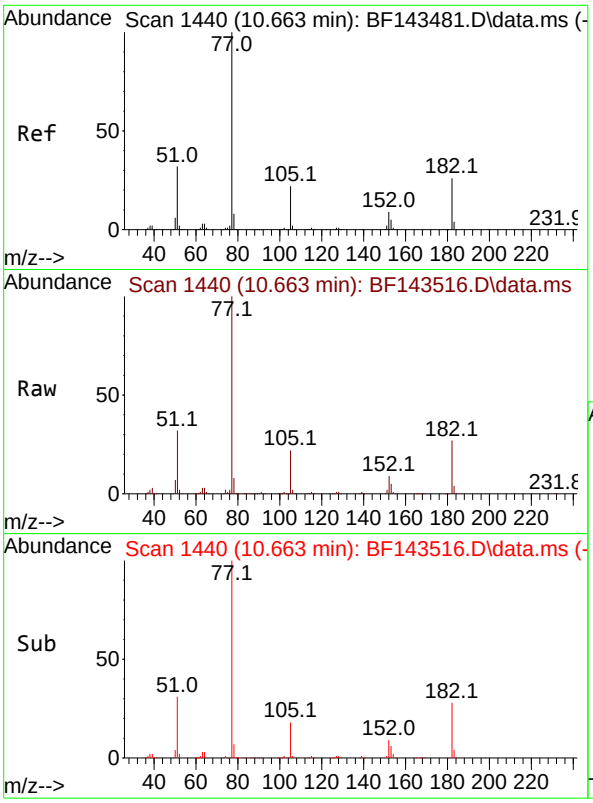


#62
4-Nitroaniline
Concen: 39.506 ng
RT: 10.528 min Scan# 1417
Delta R.T. -0.012 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Tgt Ion:138 Resp: 134532

Ion	Ratio	Lower	Upper
138	100		
92	50.6	29.3	69.3
108	74.4	50.7	90.7



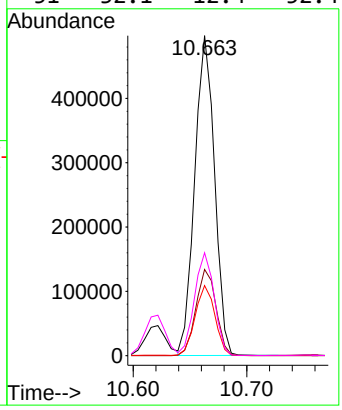


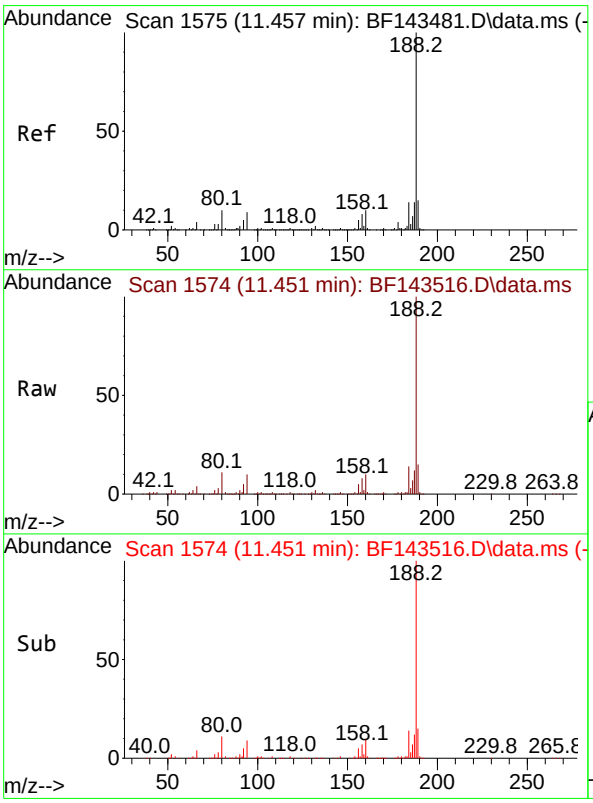
#63
Azobenzene
Concen: 39.155 ng
RT: 10.663 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 77 Resp: 602578

Ion	Ratio	Lower	Upper
77	100		
182	27.0	6.2	46.2
105	21.9	2.2	42.2
51	32.1	12.4	52.4

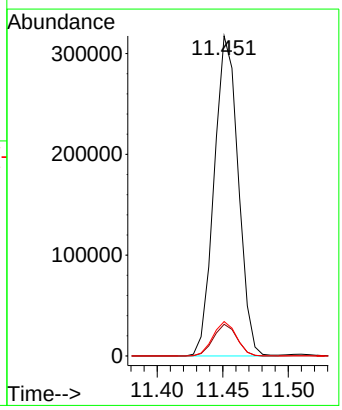


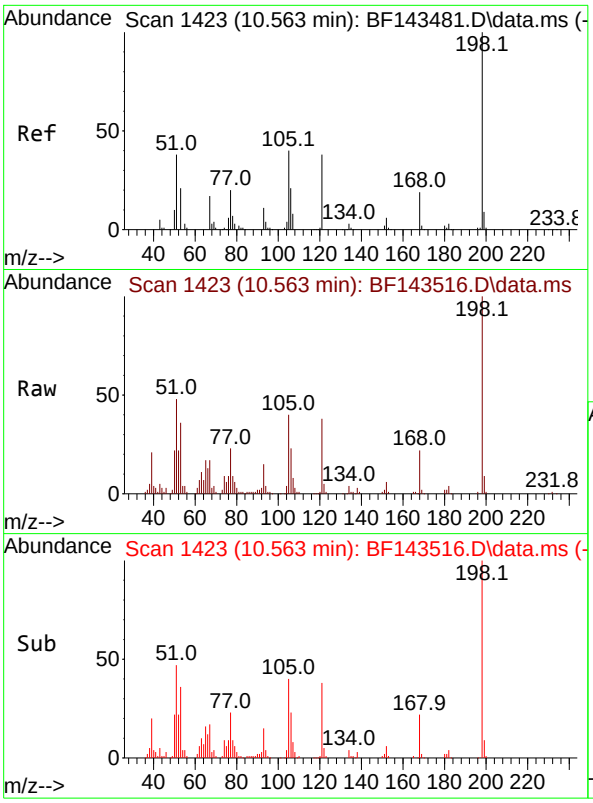


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.451 min Scan# 1574
Delta R.T. -0.006 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Tgt Ion:188 Resp: 405205

Ion	Ratio	Lower	Upper
188	100		
94	9.9	7.4	11.2
80	10.8	8.2	12.4



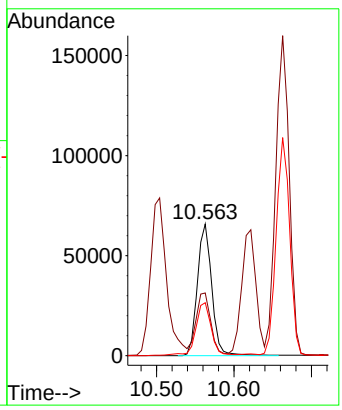


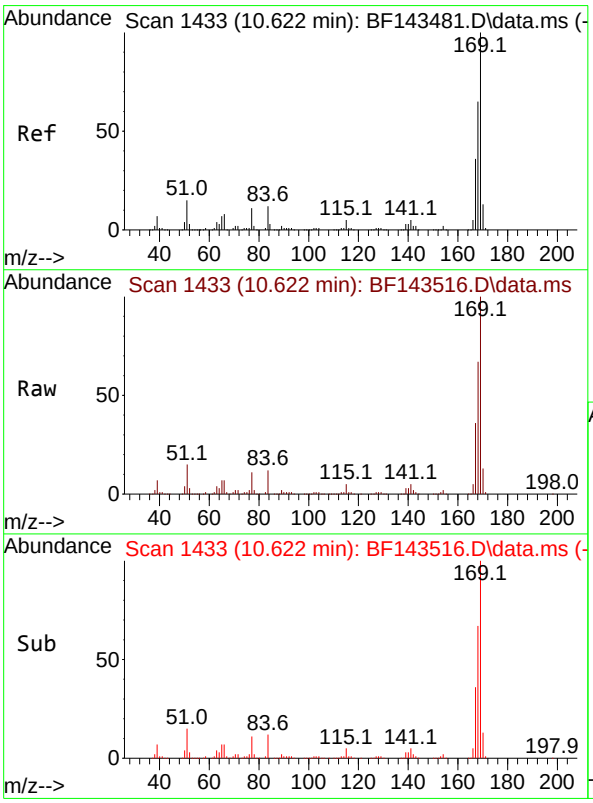
#65
4,6-Dinitro-2-methylphenol
Concen: 37.226 ng
RT: 10.563 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:198 Resp: 85050

Ion	Ratio	Lower	Upper
198	100		
51	47.7	29.6	69.6
105	40.2	21.5	61.5

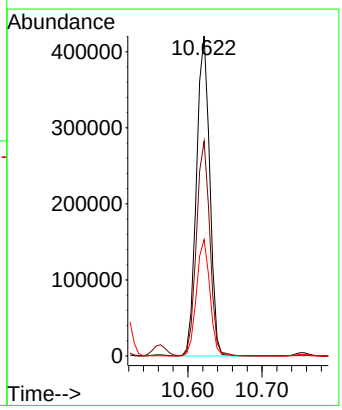


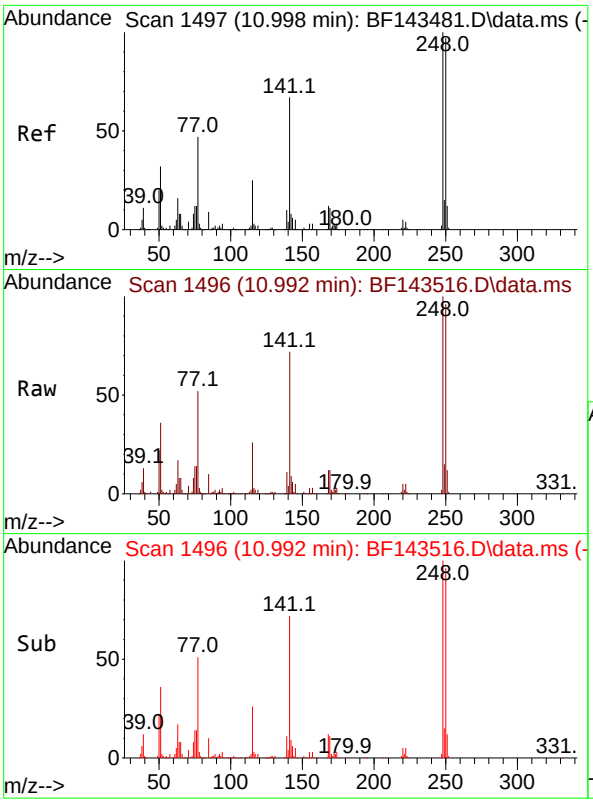


#66
n-Nitrosodiphenylamine
Concen: 40.062 ng
RT: 10.622 min Scan# 1433
Delta R.T. -0.006 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Tgt Ion:169 Resp: 522417

Ion	Ratio	Lower	Upper
169	100		
168	67.1	52.4	78.6
167	36.4	28.9	43.3



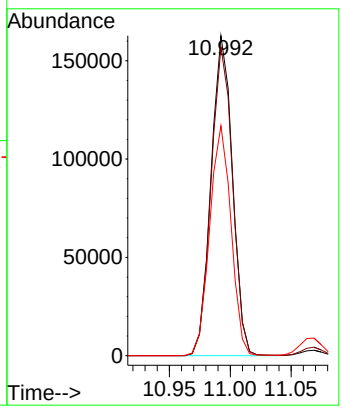


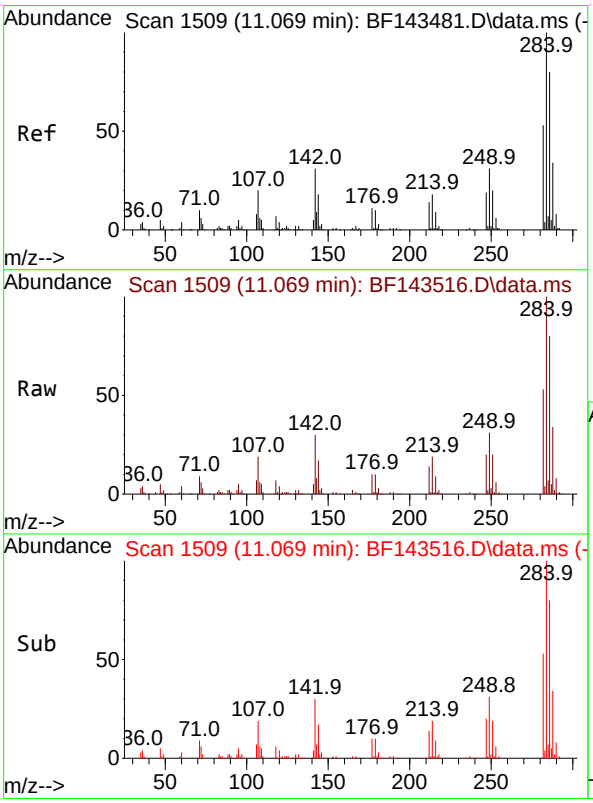
#67
4-Bromophenyl-phenylether
Concen: 41.154 ng
RT: 10.992 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:248 Resp: 198971

Ion	Ratio	Lower	Upper
248	100		
250	96.5	77.8	116.8
141	71.9	54.0	81.0

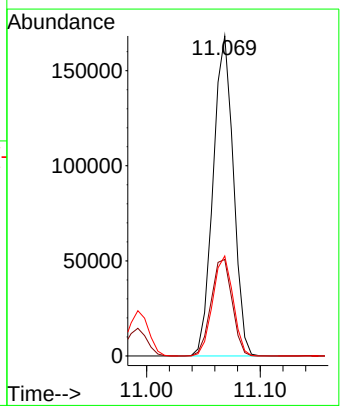


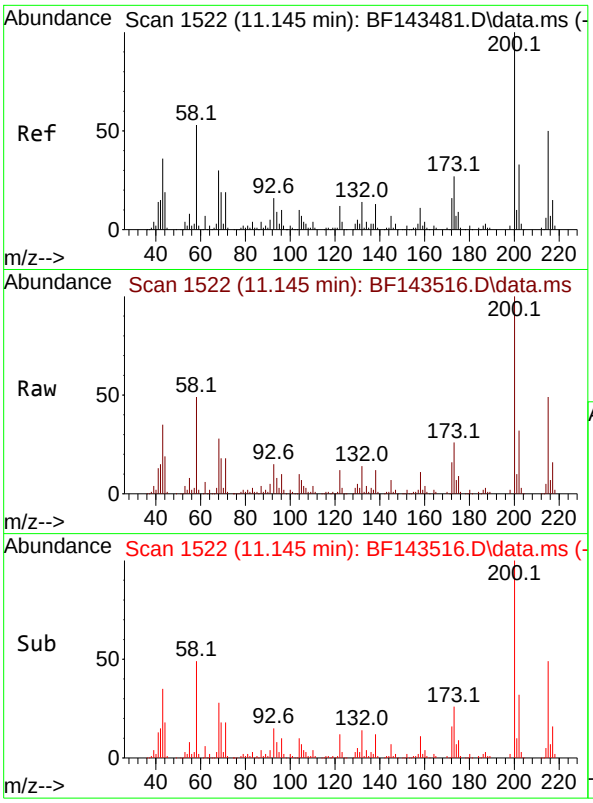


#68
Hexachlorobenzene
Concen: 40.112 ng
RT: 11.069 min Scan# 1509
Delta R.T. -0.006 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Tgt Ion:284 Resp: 209043

Ion	Ratio	Lower	Upper
284	100		
142	30.2	24.4	36.6
249	31.2	25.0	37.6



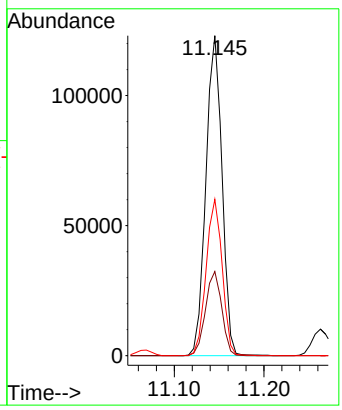


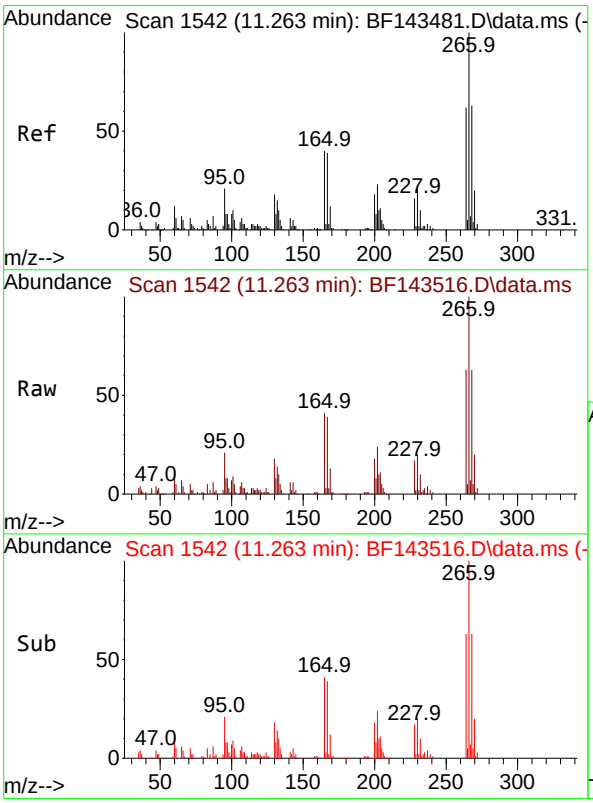
#69
Atrazine
Concen: 45.568 ng
RT: 11.145 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:200 Resp: 153390

Ion	Ratio	Lower	Upper
200	100		
173	26.3	6.9	46.9
215	48.9	30.0	70.0

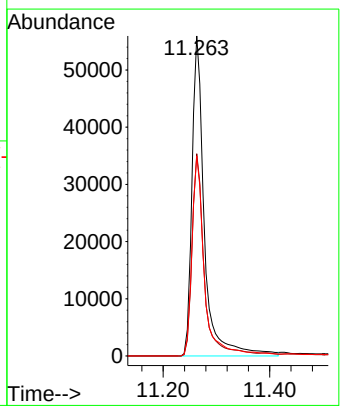


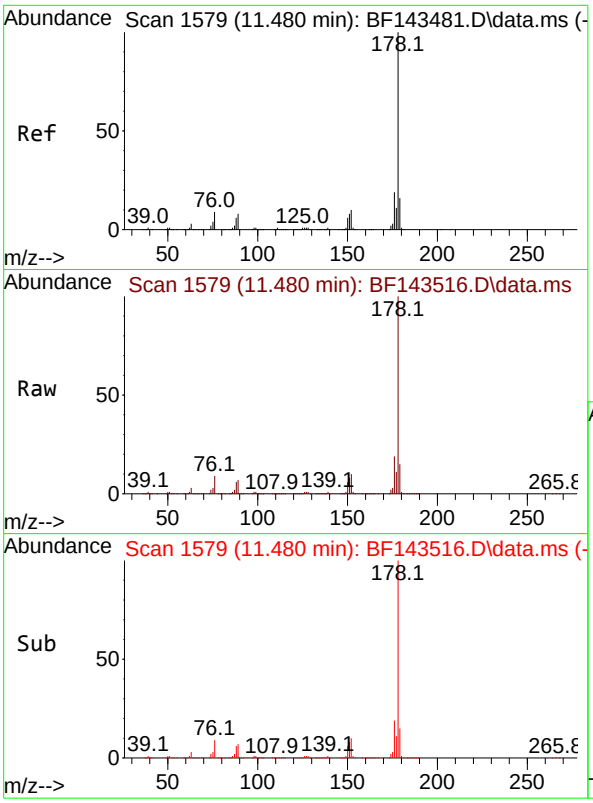


#70
Pentachlorophenol
Concen: 38.100 ng
RT: 11.263 min Scan# 1542
Delta R.T. -0.006 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Tgt Ion:266 Resp: 90936

Ion	Ratio	Lower	Upper
266	100		
268	63.2	50.5	75.7
264	62.5	49.8	74.8



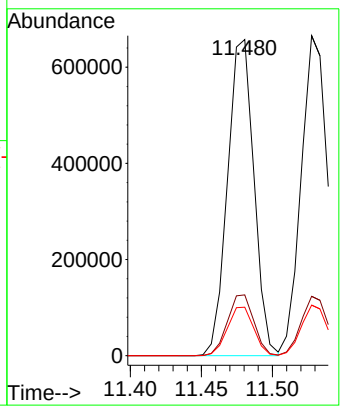


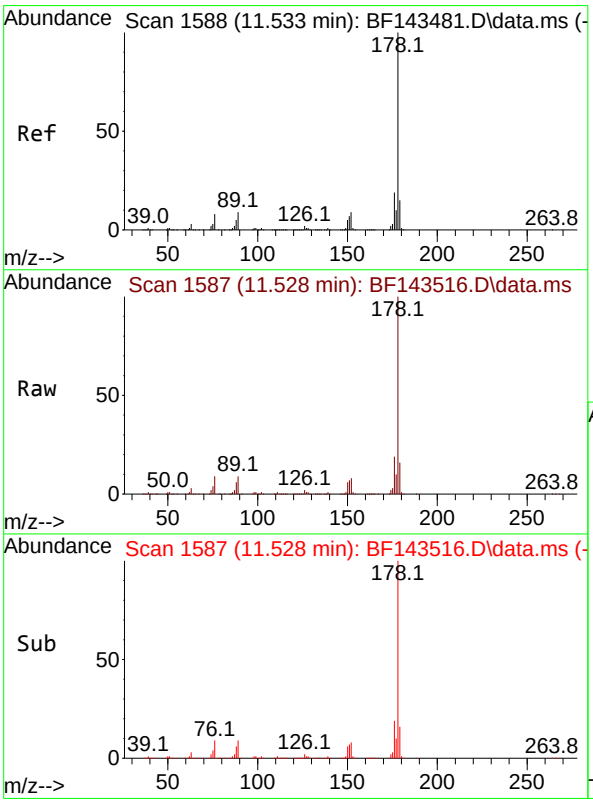
#71
Phenanthrene
Concen: 39.223 ng
RT: 11.480 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:178 Resp: 851106

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.5	23.3
179	15.3	12.5	18.7

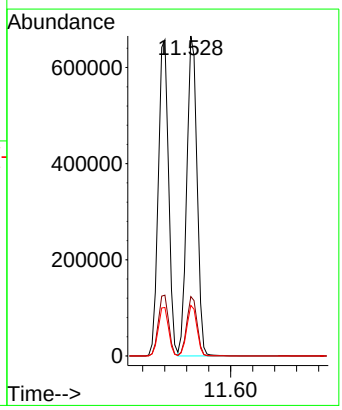


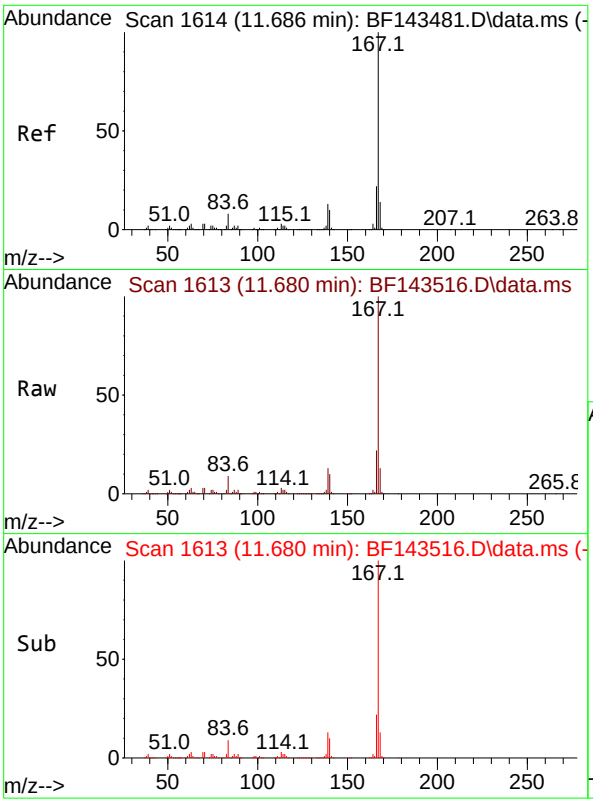


#72
Anthracene
Concen: 39.146 ng
RT: 11.528 min Scan# 1587
Delta R.T. -0.006 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Tgt Ion:178 Resp: 860520

Ion	Ratio	Lower	Upper
178	100		
176	18.5	15.0	22.4
179	15.8	12.3	18.5



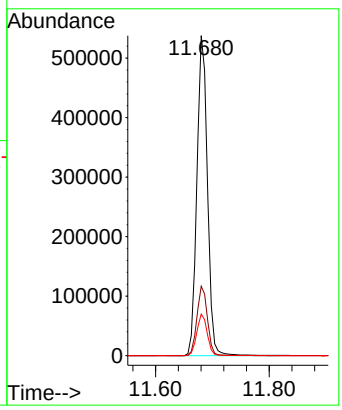


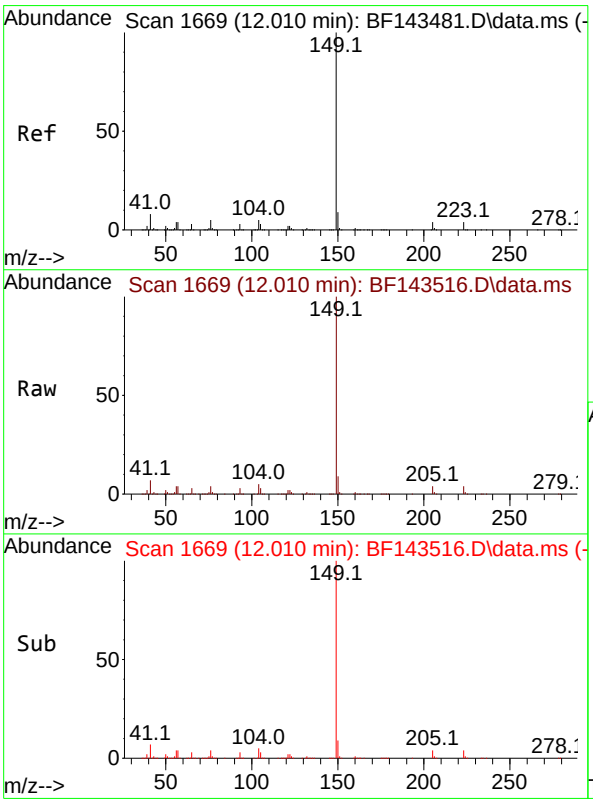
#73
Carbazole
Concen: 38.707 ng
RT: 11.680 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:167 Resp: 697205

Ion	Ratio	Lower	Upper
167	100		
166	21.7	17.3	25.9
139	13.0	10.0	15.0

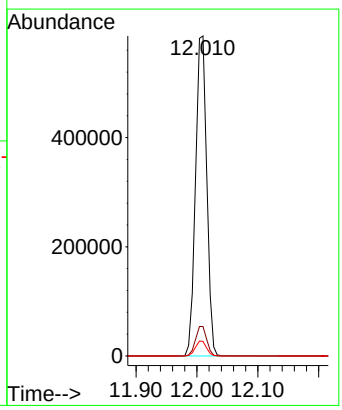


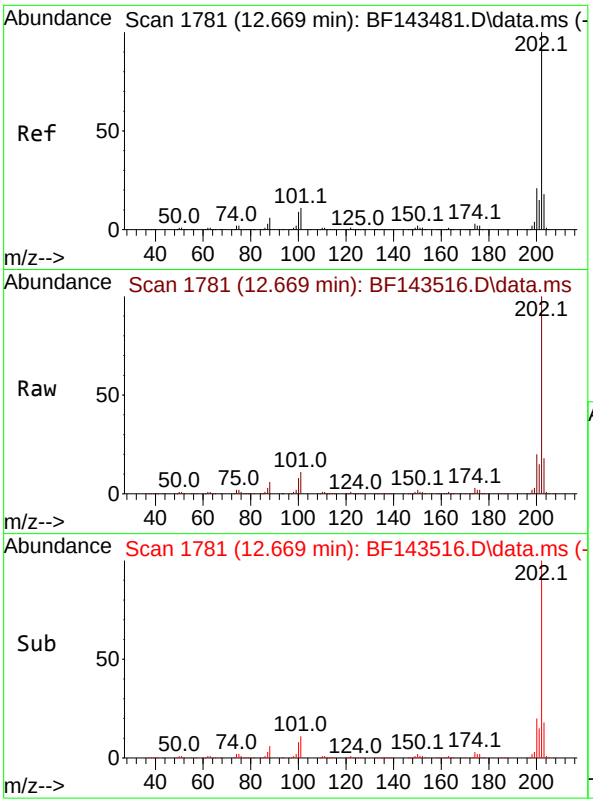


#74
Di-n-butylphthalate
Concen: 44.721 ng
RT: 12.010 min Scan# 1669
Delta R.T. 0.000 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Tgt Ion:149 Resp: 751456

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.2	10.8
104	4.5	3.6	5.4



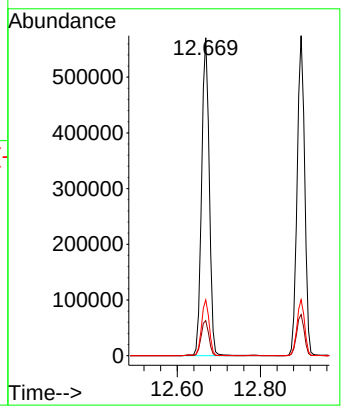


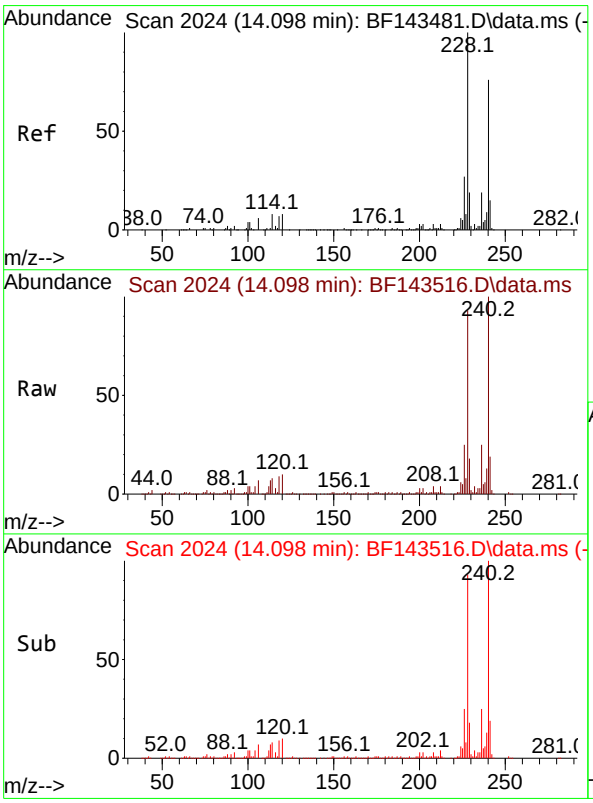
#75
Fluoranthene
Concen: 37.338 ng
RT: 12.669 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:202 Resp: 726991

Ion	Ratio	Lower	Upper
202	100		
101	11.0	0.0	31.3
203	17.6	0.0	37.9

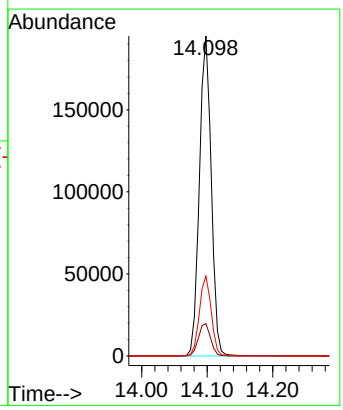


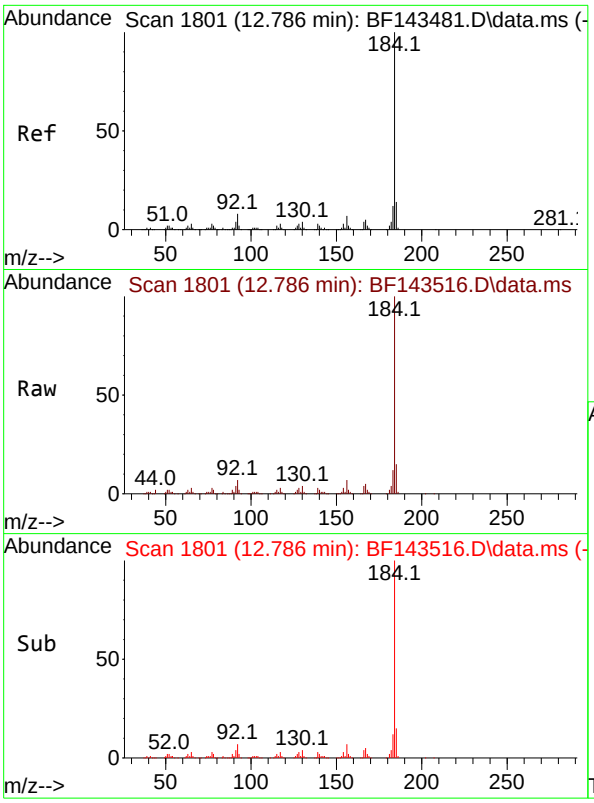


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.098 min Scan# 2024
Delta R.T. -0.006 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Tgt Ion:240 Resp: 245385

Ion	Ratio	Lower	Upper
240	100		
120	10.1	8.6	12.8
236	24.9	20.4	30.6



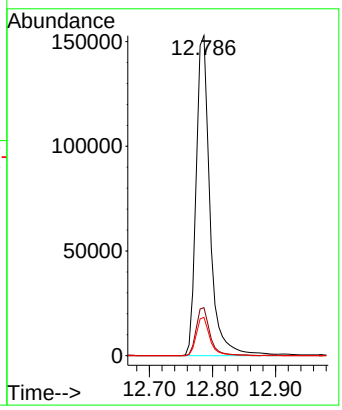


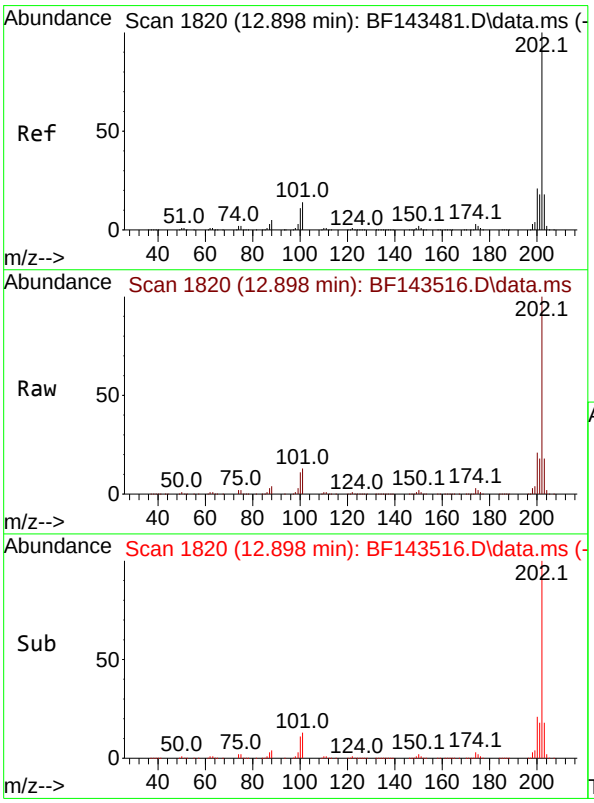
#77
Benzidine
Concen: 39.014 ng
RT: 12.786 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:184 Resp: 233194

Ion	Ratio	Lower	Upper
184	100		
185	15.0	11.3	16.9
183	11.9	9.5	14.3

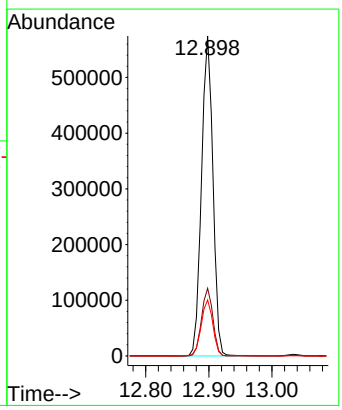


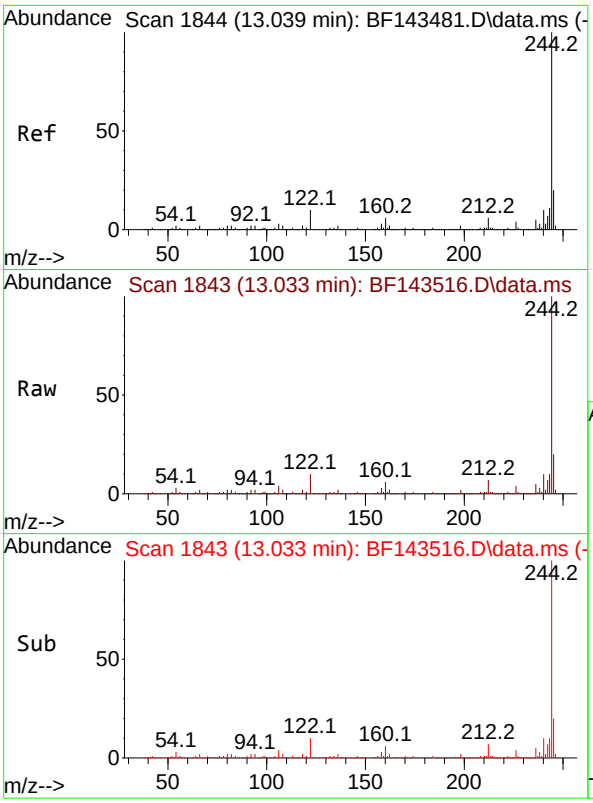


#78
Pyrene
Concen: 35.848 ng
RT: 12.898 min Scan# 1820
Delta R.T. -0.006 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Tgt Ion:202 Resp: 723572

Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.0	25.4
203	17.5	14.3	21.5



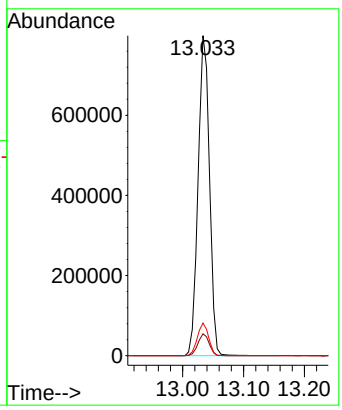


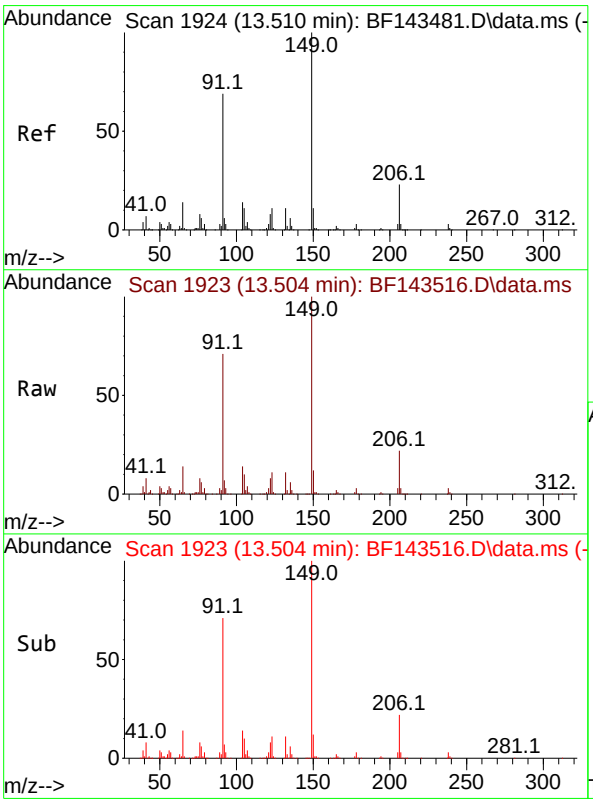
#79
Terphenyl-d14
Concen: 73.802 ng
RT: 13.033 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:244 Resp: 1037790

Ion	Ratio	Lower	Upper
244	100		
212	6.9	5.2	7.8
122	10.2	7.9	11.9

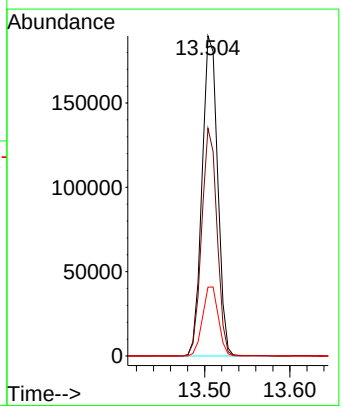


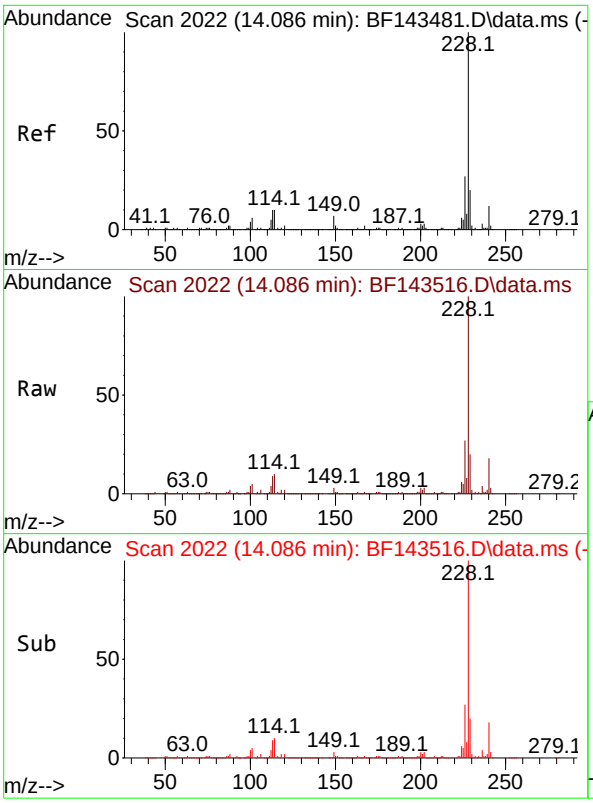


#80
Butylbenzylphthalate
Concen: 43.715 ng
RT: 13.504 min Scan# 1923
Delta R.T. -0.006 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Tgt Ion:149 Resp: 241048

Ion	Ratio	Lower	Upper
149	100		
91	71.1	55.3	82.9
206	21.5	18.2	27.4



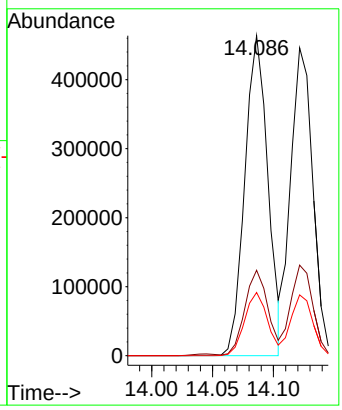


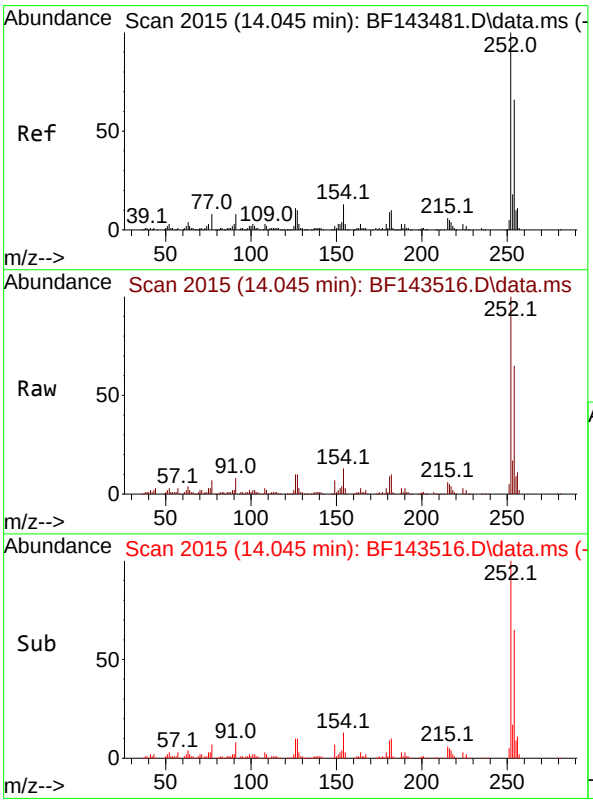
#81
Benzo(a)anthracene
Concen: 38.789 ng
RT: 14.086 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:228 Resp: 612793

Ion	Ratio	Lower	Upper
228	100		
226	26.7	21.7	32.5
229	19.8	15.7	23.5

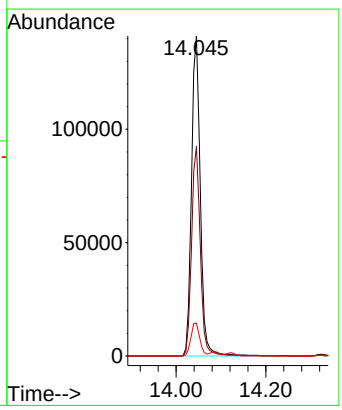


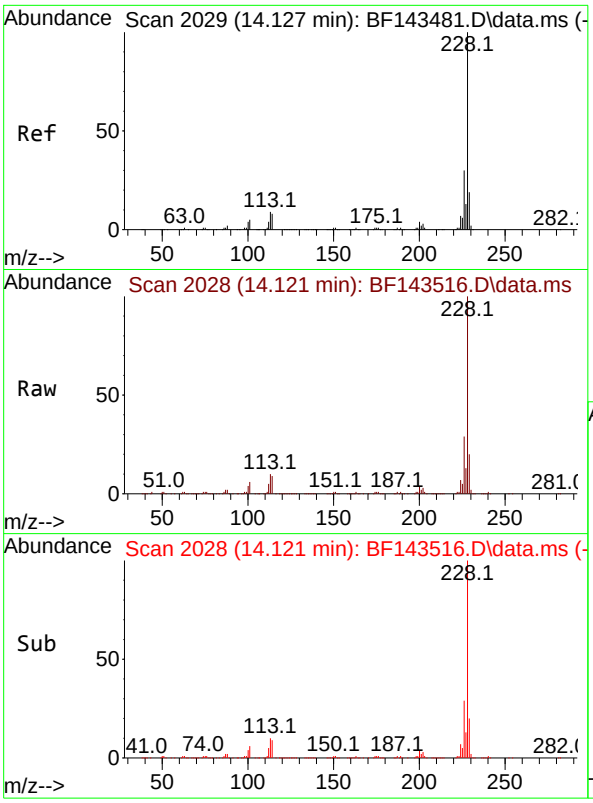


#82
3,3'-Dichlorobenzidine
Concen: 42.571 ng
RT: 14.045 min Scan# 2015
Delta R.T. 0.000 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Tgt Ion:252 Resp: 192601

Ion	Ratio	Lower	Upper
252	100		
254	65.5	52.6	79.0
126	10.3	8.7	13.1



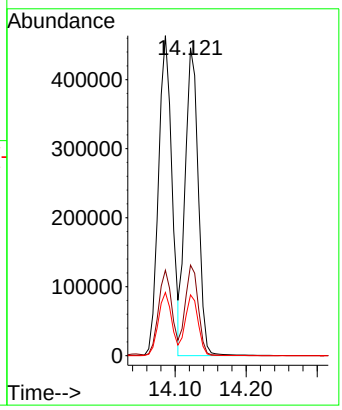


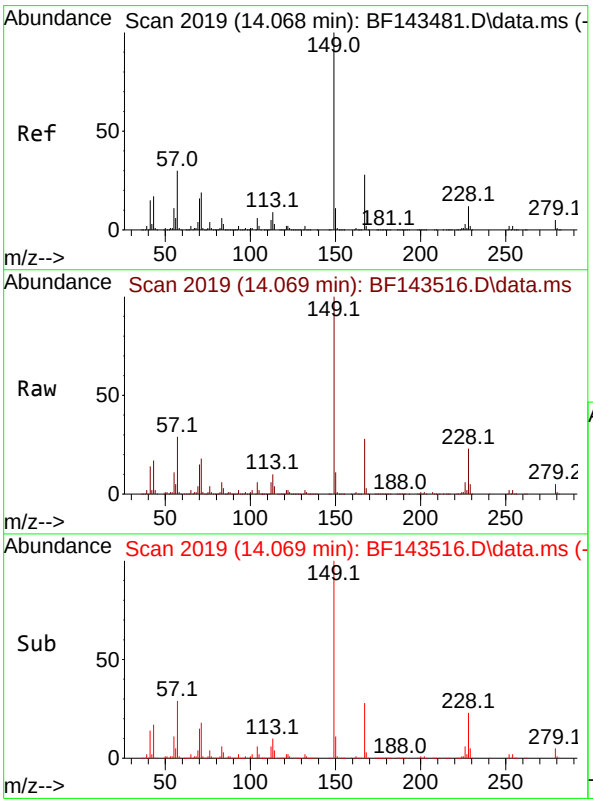
#83
Chrysene
Concen: 40.110 ng
RT: 14.121 min Scan# 2(
Delta R.T. -0.006 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:228 Resp: 569457

Ion	Ratio	Lower	Upper
228	100		
226	29.4	23.7	35.5
229	19.7	15.7	23.5

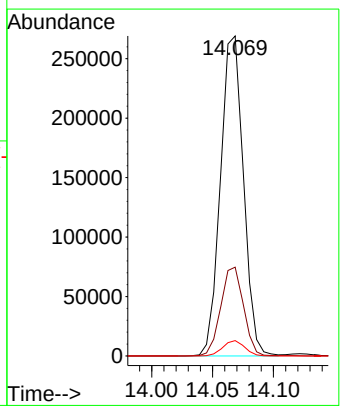


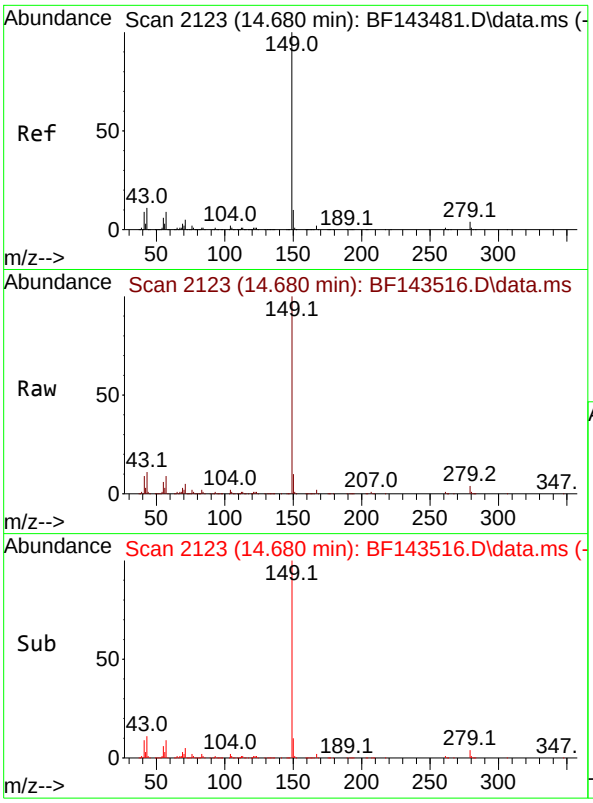


#84
Bis(2-ethylhexyl)phthalate
Concen: 42.100 ng
RT: 14.069 min Scan# 2019
Delta R.T. 0.000 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Tgt Ion:149 Resp: 353573

Ion	Ratio	Lower	Upper
149	100		
167	27.7	22.2	33.2
279	4.8	3.6	5.4



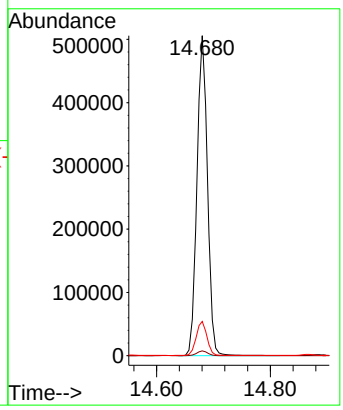


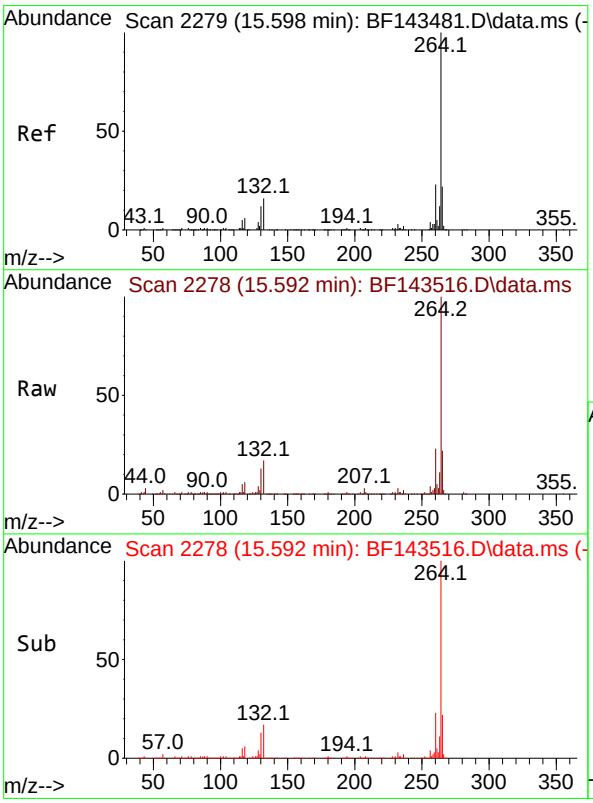
#85
Di-n-octyl phthalate
Concen: 42.003 ng
RT: 14.680 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:149 Resp: 653491

Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.2	1.8
43	10.8	8.5	12.7

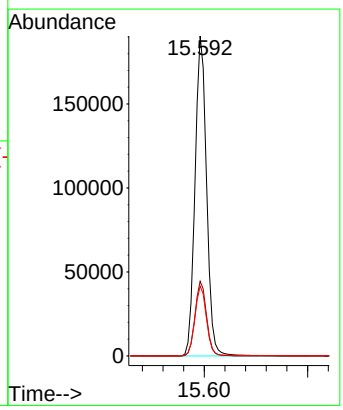


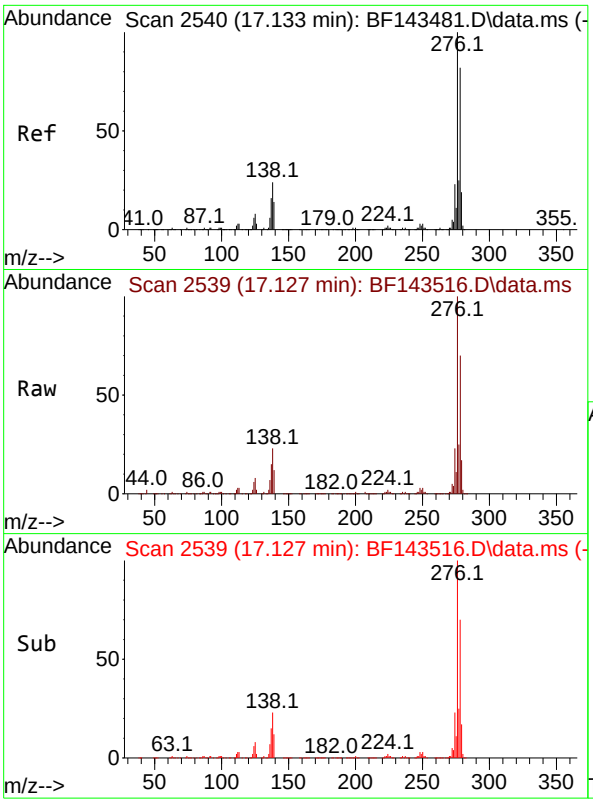


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.592 min Scan# 2278
Delta R.T. -0.006 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Tgt Ion:264 Resp: 295910

Ion	Ratio	Lower	Upper
264	100		
260	23.4	18.7	28.1
265	21.9	17.6	26.4



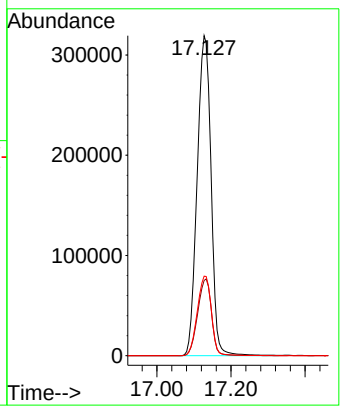


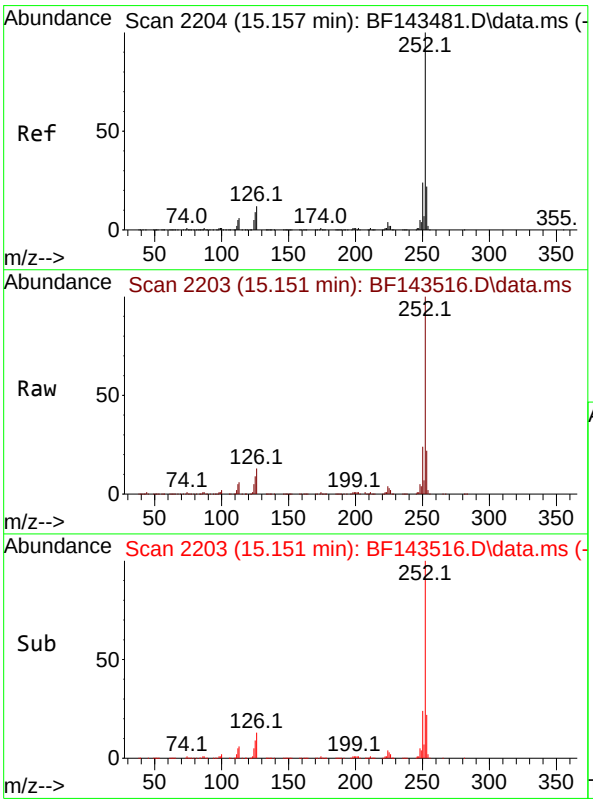
#87
Indeno(1,2,3-cd)pyrene
Concen: 39.018 ng
RT: 17.127 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:276 Resp: 829688

Ion	Ratio	Lower	Upper
276	100		
138	23.9	19.2	28.8
277	25.2	20.3	30.5

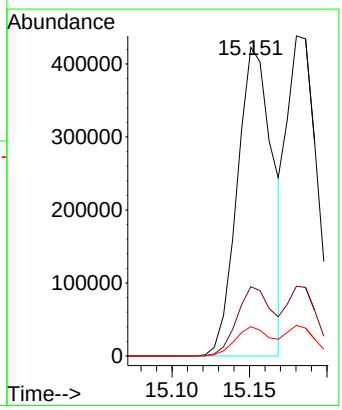


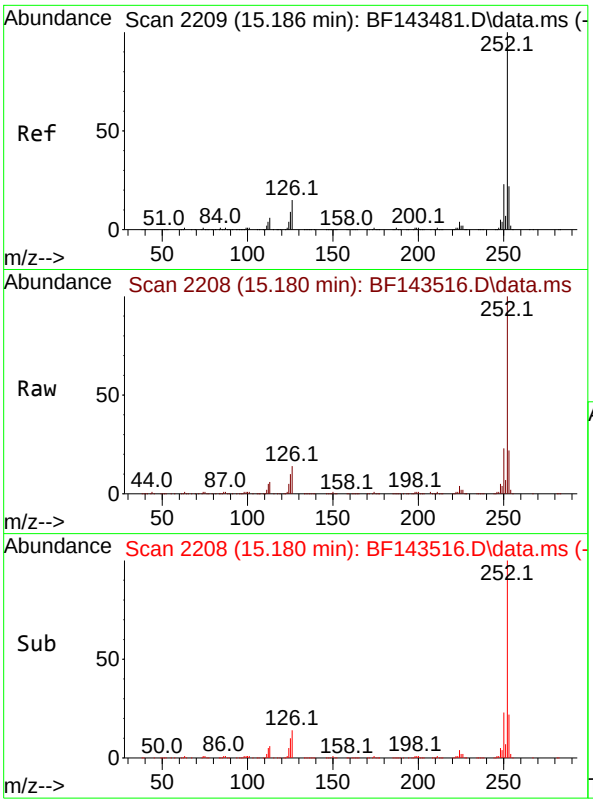


#88
Benzo(b)fluoranthene
Concen: 40.852 ng
RT: 15.151 min Scan# 2203
Delta R.T. -0.006 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Tgt Ion:252 Resp: 671954

Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.5	26.3
125	9.5	7.4	11.0



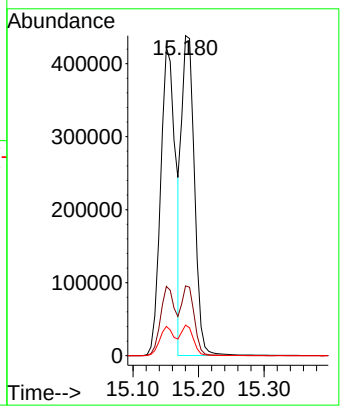


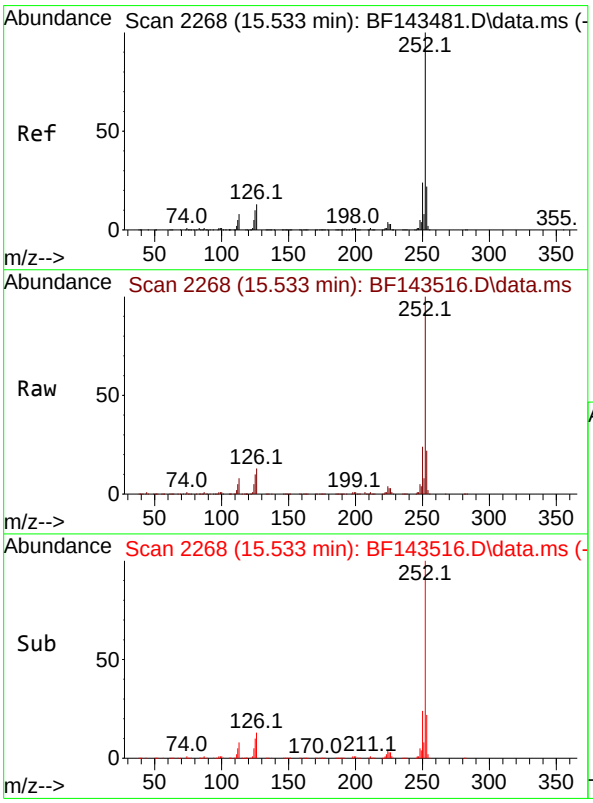
#89
Benzo(k)fluoranthene
Concen: 37.893 ng
RT: 15.180 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:252 Resp: 596771

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.4	26.2
125	9.6	7.4	11.0

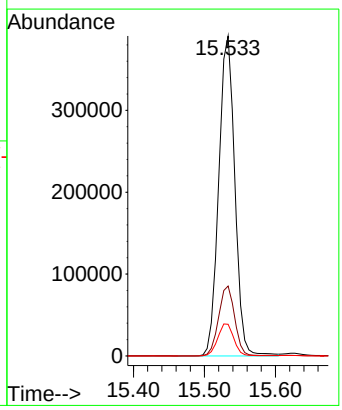


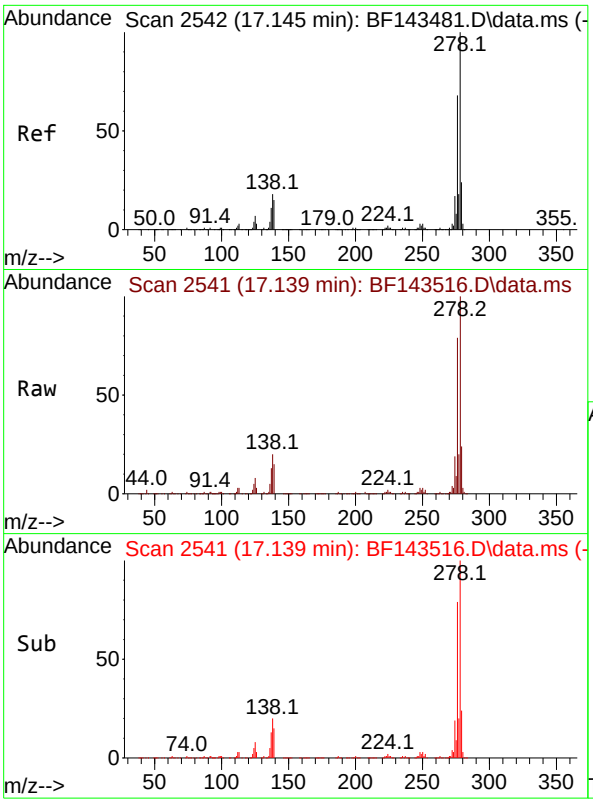


#90
Benzo(a)pyrene
Concen: 40.175 ng
RT: 15.533 min Scan# 2268
Delta R.T. -0.006 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Tgt Ion:252 Resp: 613387

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.4	26.0
125	9.9	8.2	12.2



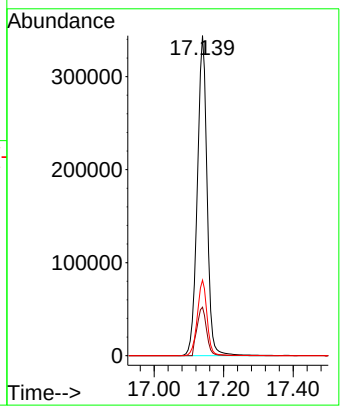


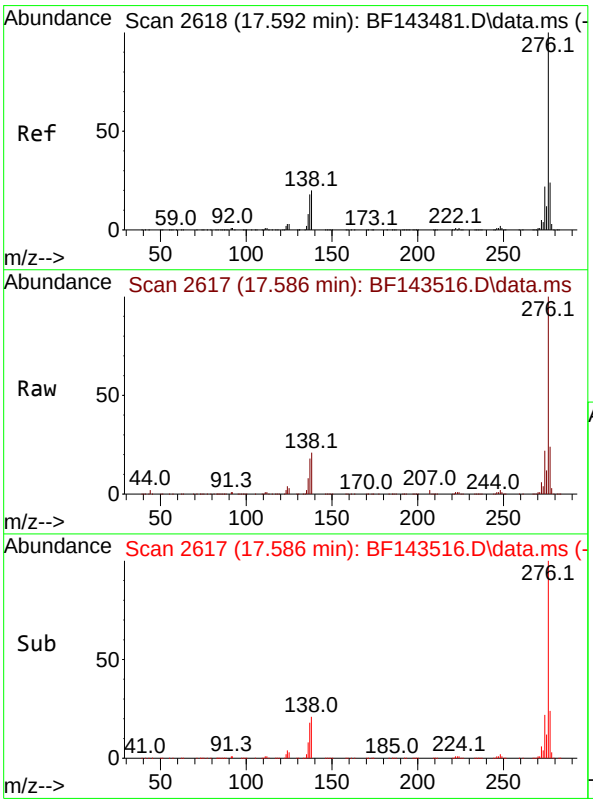
#91
Dibenzo(a,h)anthracene
Concen: 39.400 ng
RT: 17.139 min Scan# 2
Delta R.T. -0.018 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:278 Resp: 670989

Ion	Ratio	Lower	Upper
278	100		
139	15.1	12.1	18.1
279	23.6	19.2	28.8

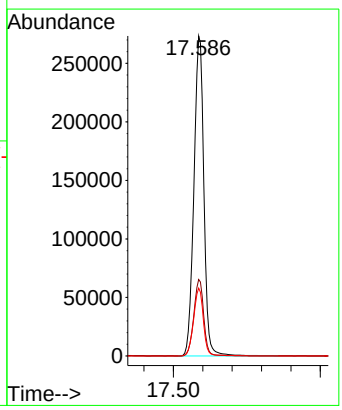




#92
Benzo(g,h,i)perylene
Concen: 37.945 ng
RT: 17.586 min Scan# 2617
Delta R.T. -0.018 min
Lab File: BF143516.D
Acq: 21 Aug 2025 06:44

Tgt Ion:276 Resp: 642548

Ion	Ratio	Lower	Upper
276	100		
277	23.9	18.9	28.3
138	21.2	16.3	24.5



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082025\
Data File : BF143516.D
Acq On : 21 Aug 2025 06:44
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 40 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Aug 21 07:07:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 21 06:12:21 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	100	0.00
2		1,4-Dioxane	0.531	0.534	-0.6	99	0.00
3		Pyridine	1.413	1.423	-0.7	99	0.00
4		n-Nitrosodimethylamine	0.635	0.636	-0.2	99	-0.02
5	S	2-Fluorophenol	1.145	1.126	1.7	99	0.00
6		Aniline	1.890	1.835	2.9	97	0.00
7	S	Phenol-d6	1.414	1.374	2.8	97	-0.01
8		2-Chlorophenol	1.265	1.233	2.5	97	0.00
9		Benzaldehyde	1.145	1.296	-13.2	108	0.00
10	C	Phenol	1.629	1.615	0.9	98	0.00
11		bis(2-Chloroethyl)ether	1.217	1.190	2.2	98	0.00
12		1,3-Dichlorobenzene	1.421	1.391	2.1	98	0.00
13	C	1,4-Dichlorobenzene	1.426	1.385	2.9	98	0.00
14		1,2-Dichlorobenzene	1.350	1.317	2.4	97	0.00
15		Benzyl Alcohol	1.059	1.062	-0.3	98	0.00
16		2,2'-oxybis(1-Chloropropane	1.947	1.881	3.4	96	0.00
17		2-Methylphenol	1.015	1.006	0.9	99	0.00
18		Hexachloroethane	0.485	0.476	1.9	97	0.00
19	P	n-Nitroso-di-n-propylamine	0.864	0.835	3.4	99	-0.01
20		3+4-Methylphenols	1.212	1.199	1.1	98	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	98	0.00
22		Acetophenone	0.432	0.422	2.3	99	0.00
23	S	Nitrobenzene-d5	0.343	0.343	0.0	98	-0.01
24		Nitrobenzene	0.353	0.357	-1.1	98	0.00
25		Isophorone	0.628	0.628	0.0	99	-0.01
26	C	2-Nitrophenol	0.173	0.181	-4.6	100	0.00
27		2,4-Dimethylphenol	0.269	0.264	1.9	95	0.00
28		bis(2-Chloroethoxy)methane	0.386	0.386	0.0	98	0.00
29	C	2,4-Dichlorophenol	0.288	0.287	0.3	97	0.00
30		1,2,4-Trichlorobenzene	0.296	0.294	0.7	98	0.00
31		Naphthalene	0.960	0.938	2.3	97	0.00
32		Benzoic acid	0.137	0.139	-1.5	93	-0.03
33		4-Chloroaniline	0.341	0.332	2.6	95	0.00
34	C	Hexachlorobutadiene	0.193	0.193	0.0	98	0.00
35		Caprolactam	0.069	0.076	-10.1	104	-0.02
36	C	4-Chloro-3-methylphenol	0.288	0.291	-1.0	99	0.00
37		2-Methylnaphthalene	0.641	0.622	3.0	96	0.00
38		1-Methylnaphthalene	0.613	0.593	3.3	96	0.00
39	I	Acenaphthene-d10	1.000	1.000	0.0	97	0.00
40		1,2,4,5-Tetrachlorobenzene	0.572	0.565	1.2	97	0.00
41	P	Hexachlorocyclopentadiene	0.184	0.166	9.8	81	0.00
42	S	2,4,6-Tribromophenol	0.186	0.181	2.7	94	0.00
43	C	2,4,6-Trichlorophenol	0.352	0.350	0.6	94	0.00
44		2,4,5-Trichlorophenol	0.385	0.386	-0.3	98	0.00
45	S	2-Fluorobiphenyl	1.210	1.163	3.9	98	0.00
46		1,1'-Biphenyl	1.420	1.380	2.8	96	0.00
47		2-Chloronaphthalene	1.114	1.088	2.3	96	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082025\
Data File : BF143516.D
Acq On : 21 Aug 2025 06:44
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 40 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Aug 21 07:07:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 21 06:12:21 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	0.326	0.331	-1.5	96	0.00
49		Acenaphthylene	1.595	1.557	2.4	96	0.00
50		Dimethylphthalate	1.205	1.222	-1.4	99	0.00
51		2,6-Dinitrotoluene	0.250	0.257	-2.8	96	0.00
52	C	Acenaphthene	1.083	1.029	5.0	93	0.00
53		3-Nitroaniline	0.270	0.268	0.7	94	0.00
54	P	2,4-Dinitrophenol	0.115	0.082	28.7#	66	0.00
55		Dibenzofuran	1.544	1.502	2.7	96	0.00
56	P	4-Nitrophenol	0.161	0.153	5.0	87	0.00
57		2,4-Dinitrotoluene	0.333	0.341	-2.4	94	0.00
58		Fluorene	1.188	1.137	4.3	95	0.00
59		2,3,4,6-Tetrachlorophenol	0.286	0.286	0.0	94	0.00
60		Diethylphthalate	1.080	1.117	-3.4	100	0.00
61		4-Chlorophenyl-phenylether	0.594	0.579	2.5	96	0.00
62		4-Nitroaniline	0.248	0.245	1.2	93	-0.01
63		Azobenzene	1.120	1.096	2.1	95	0.00
64	I	Phenanthrene-d10	1.000	1.000	0.0	93	0.00
65		4,6-Dinitro-2-methylphenol	0.113	0.105	7.1	82	0.00
66	c	n-Nitrosodiphenylamine	0.644	0.645	-0.2	93	0.00
67		4-Bromophenyl-phenylether	0.239	0.246	-2.9	95	0.00
68		Hexachlorobenzene	0.257	0.258	-0.4	93	0.00
69		Atrazine	0.166	0.189	-13.9	105	0.00
70	C	Pentachlorophenol	0.118	0.112	5.1	84	0.00
71		Phenanthrene	1.071	1.050	2.0	94	0.00
72		Anthracene	1.085	1.062	2.1	92	0.00
73		Carbazole	0.889	0.860	3.3	91	0.00
74		Di-n-butylphthalate	0.829	0.927	-11.8	101	0.00
75	C	Fluoranthene	0.961	0.897	6.7	88	0.00
76	I	Chrysene-d12	1.000	1.000	0.0	98	0.00
77		Benzidine	0.487	0.475	2.5	90	0.00
78		Pyrene	1.645	1.474	10.4	89	0.00
79	S	Terphenyl-d14	1.146	1.057	7.8	92	0.00
80		Butylbenzylphthalate	0.449	0.491	-9.4	103	0.00
81		Benzo(a)anthracene	1.288	1.249	3.0	93	0.00
82		3,3'-Dichlorobenzidine	0.369	0.392	-6.2	103	0.00
83		Chrysene	1.157	1.160	-0.3	102	0.00
84		Bis(2-ethylhexyl)phthalate	0.685	0.720	-5.1	100	0.00
85	c	Di-n-octyl phthalate	1.268	1.332	-5.0	101	0.00
86	I	Perylene-d12	1.000	1.000	0.0	103	0.00
87		Indeno(1,2,3-cd)pyrene	1.437	1.402	2.4	99	-0.01
88		Benzo(b)fluoranthene	1.112	1.135	-2.1	109	0.00
89		Benzo(k)fluoranthene	1.064	1.008	5.3	96	-0.01
90	C	Benzo(a)pyrene	1.032	1.036	-0.4	103	0.00
91		Dibenzo(a,h)anthracene	1.151	1.134	1.5	100	-0.02
92		Benzo(g,h,i)perylene	1.145	1.086	5.2	96	-0.02

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082025\
Data File : BF143516.D
Acq On : 21 Aug 2025 06:44
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 40 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Aug 21 07:07:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 21 06:12:21 2025
Response via : Initial Calibration

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

Compound	AvgRF	CCRF	%Dev Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082025\
Data File : BF143516.D
Acq On : 21 Aug 2025 06:44
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 40 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Aug 21 07:07:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 21 06:12:21 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	100	0.00
2		1,4-Dioxane	40.000	40.266	-0.7	99	0.00
3		Pyridine	40.000	40.291	-0.7	99	0.00
4		n-Nitrosodimethylamine	40.000	40.055	-0.1	99	-0.02
5	S	2-Fluorophenol	80.000	78.639	1.7	99	0.00
6		Aniline	40.000	38.836	2.9	97	0.00
7	S	Phenol-d6	80.000	77.747	2.8	97	-0.01
8		2-Chlorophenol	40.000	38.991	2.5	97	0.00
9		Benzaldehyde	40.000	45.296	-13.2	108	0.00
10	C	Phenol	40.000	39.657	0.9	98	0.00
11		bis(2-Chloroethyl)ether	40.000	39.111	2.2	98	0.00
12		1,3-Dichlorobenzene	40.000	39.153	2.1	98	0.00
13	C	1,4-Dichlorobenzene	40.000	38.855	2.9	98	0.00
14		1,2-Dichlorobenzene	40.000	39.014	2.5	97	0.00
15		Benzyl Alcohol	40.000	40.117	-0.3	98	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	38.635	3.4	96	0.00
17		2-Methylphenol	40.000	39.635	0.9	99	0.00
18		Hexachloroethane	40.000	39.240	1.9	97	0.00
19	P	n-Nitroso-di-n-propylamine	40.000	38.648	3.4	99	-0.01
20		3+4-Methylphenols	40.000	39.557	1.1	98	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	98	0.00
22		Acetophenone	40.000	39.094	2.3	99	0.00
23	S	Nitrobenzene-d5	80.000	80.138	-0.2	98	-0.01
24		Nitrobenzene	40.000	40.446	-1.1	98	0.00
25		Isophorone	40.000	40.006	-0.0	99	-0.01
26	C	2-Nitrophenol	40.000	42.012	-5.0	100	0.00
27		2,4-Dimethylphenol	40.000	39.152	2.1	95	0.00
28		bis(2-Chloroethoxy)methane	40.000	39.952	0.1	98	0.00
29	C	2,4-Dichlorophenol	40.000	39.911	0.2	97	0.00
30		1,2,4-Trichlorobenzene	40.000	39.782	0.5	98	0.00
31		Naphthalene	40.000	39.092	2.3	97	0.00
32		Benzoic acid	40.000	37.591	6.0	93	-0.03
33		4-Chloroaniline	40.000	38.986	2.5	95	0.00
34	C	Hexachlorobutadiene	40.000	39.969	0.1	98	0.00
35		Caprolactam	40.000	43.799	-9.5	104	-0.02
36	C	4-Chloro-3-methylphenol	40.000	40.394	-1.0	99	0.00
37		2-Methylnaphthalene	40.000	38.808	3.0	96	0.00
38		1-Methylnaphthalene	40.000	38.685	3.3	96	0.00
39	I	Acenaphthene-d10	20.000	20.000	0.0	97	0.00
40		1,2,4,5-Tetrachlorobenzene	40.000	39.505	1.2	97	0.00
41	P	Hexachlorocyclopentadiene	40.000	33.894	15.3	81	0.00
42	S	2,4,6-Tribromophenol	80.000	77.956	2.6	94	0.00
43	C	2,4,6-Trichlorophenol	40.000	39.825	0.4	94	0.00
44		2,4,5-Trichlorophenol	40.000	40.163	-0.4	98	0.00
45	S	2-Fluorobiphenyl	80.000	76.887	3.9	98	0.00
46		1,1'-Biphenyl	40.000	38.879	2.8	96	0.00
47		2-Chloronaphthalene	40.000	39.061	2.3	96	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082025\
Data File : BF143516.D
Acq On : 21 Aug 2025 06:44
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 40 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Aug 21 07:07:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 21 06:12:21 2025
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
48		2-Nitroaniline	40.000	40.640	-1.6	96	0.00
49		Acenaphthylene	40.000	39.059	2.4	96	0.00
50		Dimethylphthalate	40.000	40.583	-1.5	99	0.00
51		2,6-Dinitrotoluene	40.000	41.159	-2.9	96	0.00
52	C	Acenaphthene	40.000	38.011	5.0	93	0.00
53		3-Nitroaniline	40.000	39.678	0.8	94	0.00
54	P	2,4-Dinitrophenol	40.000	28.170	29.6#	66	0.00
55		Dibenzofuran	40.000	38.919	2.7	96	0.00
56	P	4-Nitrophenol	40.000	38.203	4.5	87	0.00
57		2,4-Dinitrotoluene	40.000	40.880	-2.2	94	0.00
58		Fluorene	40.000	38.288	4.3	95	0.00
59		2,3,4,6-Tetrachlorophenol	40.000	40.017	-0.0	94	0.00
60		Diethylphthalate	40.000	41.355	-3.4	100	0.00
61		4-Chlorophenyl-phenylether	40.000	38.987	2.5	96	0.00
62		4-Nitroaniline	40.000	39.506	1.2	93	-0.01
63		Azobenzene	40.000	39.155	2.1	95	0.00
64	I	Phenanthrene-d10	20.000	20.000	0.0	93	0.00
65		4,6-Dinitro-2-methylphenol	40.000	37.226	6.9	82	0.00
66	c	n-Nitrosodiphenylamine	40.000	40.062	-0.2	93	0.00
67		4-Bromophenyl-phenylether	40.000	41.154	-2.9	95	0.00
68		Hexachlorobenzene	40.000	40.112	-0.3	93	0.00
69		Atrazine	40.000	45.568	-13.9	105	0.00
70	C	Pentachlorophenol	40.000	38.100	4.7	84	0.00
71		Phenanthrene	40.000	39.223	1.9	94	0.00
72		Anthracene	40.000	39.146	2.1	92	0.00
73		Carbazole	40.000	38.707	3.2	91	0.00
74		Di-n-butylphthalate	40.000	44.721	-11.8	101	0.00
75	C	Fluoranthene	40.000	37.338	6.7	88	0.00
76	I	Chrysene-d12	20.000	20.000	0.0	98	0.00
77		Benzidine	40.000	39.014	2.5	90	0.00
78		Pyrene	40.000	35.848	10.4	89	0.00
79	S	Terphenyl-d14	80.000	73.802	7.7	92	0.00
80		Butylbenzylphthalate	40.000	43.715	-9.3	103	0.00
81		Benzo(a)anthracene	40.000	38.789	3.0	93	0.00
82		3,3'-Dichlorobenzidine	40.000	42.571	-6.4	103	0.00
83		Chrysene	40.000	40.110	-0.3	102	0.00
84		Bis(2-ethylhexyl)phthalate	40.000	42.100	-5.3	100	0.00
85	c	Di-n-octyl phthalate	40.000	42.003	-5.0	101	0.00
86	I	Perylene-d12	20.000	20.000	0.0	103	0.00
87		Indeno(1,2,3-cd)pyrene	40.000	39.018	2.5	99	-0.01
88		Benzo(b)fluoranthene	40.000	40.852	-2.1	109	0.00
89		Benzo(k)fluoranthene	40.000	37.893	5.3	96	-0.01
90	C	Benzo(a)pyrene	40.000	40.175	-0.4	103	0.00
91		Dibenzo(a,h)anthracene	40.000	39.400	1.5	100	-0.02
92		Benzo(g,h,i)perylene	40.000	37.945	5.1	96	-0.02

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082025\
Data File : BF143516.D
Acq On : 21 Aug 2025 06:44
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 40 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Aug 21 07:07:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 21 06:12:21 2025
Response via : Initial Calibration

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

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

(#) = Out of Range SPCC's out = 0 CCC's out = 0

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: FIRS02

Lab Code: ACE SDG No.: Q2819

Instrument ID: BNA_F Calibration Date/Time: 08/21/2025 09:21

Lab File ID: BF143518.D Init. Calib. Date(s): 08/20/2025 08/20/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:55 14:20

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.145	1.132		-1.1	
Benzaldehyde	1.145	1.256		9.7	
Phenol-d6	1.414	1.413		-0.1	
Phenol	1.629	1.644		0.9	20.0
bis(2-Chloroethyl)ether	1.217	1.227		0.8	
2-Chlorophenol	1.265	1.272		0.6	
2-Methylphenol	1.015	1.028		1.3	
2,2-oxybis(1-Chloropropane)	1.947	1.939		-0.4	
Acetophenone	0.432	0.427		-1.2	
3+4-Methylphenols	1.212	1.227		1.2	
n-Nitroso-di-n-propylamine	0.864	0.860	0.050	-0.5	
Nitrobenzene-d5	0.343	0.348		1.5	
Hexachloroethane	0.485	0.490		1.0	
Nitrobenzene	0.353	0.362		2.5	
Isophorone	0.628	0.630		0.3	
2-Nitrophenol	0.173	0.180		4.0	20.0
2,4-Dimethylphenol	0.269	0.270		0.4	
bis(2-Chloroethoxy)methane	0.386	0.384		-0.5	
2,4-Dichlorophenol	0.288	0.290		0.7	20.0
Naphthalene	0.960	0.950		-1.0	
4-Chloroaniline	0.341	0.339		-0.6	
Hexachlorobutadiene	0.193	0.194		0.5	20.0
Caprolactam	0.069	0.078		13.0	
4-Chloro-3-methylphenol	0.288	0.289		0.3	20.0
2-Methylnaphthalene	0.641	0.627		-2.2	
Hexachlorocyclopentadiene	0.184	0.169	0.050	-8.2	
2,4,6-Trichlorophenol	0.352	0.355		0.9	20.0
2-Fluorobiphenyl	1.210	1.177		-2.7	
2,4,5-Trichlorophenol	0.385	0.380		-1.3	
1,1-Biphenyl	1.420	1.391		-2.0	
2-Chloronaphthalene	1.114	1.096		-1.6	
2-Nitroaniline	0.326	0.335		2.8	
Dimethylphthalate	1.205	1.250		3.7	
Acenaphthylene	1.595	1.578		-1.1	
2,6-Dinitrotoluene	0.250	0.265		6.0	
3-Nitroaniline	0.270	0.278		3.0	
Acenaphthene	1.083	1.067		-1.5	20.0
2,4-Dinitrophenol	0.115	0.109	0.050	-5.2	
4-Nitrophenol	0.161	0.155	0.050	-3.7	

Form VII SV-1

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: Alliance Contract: FIRS02

Lab Code: ACE SDG No.: Q2819

Instrument ID: BNA_F Calibration Date/Time: 08/21/2025 09:21

Lab File ID: BF143518.D Init. Calib. Date(s): 08/20/2025 08/20/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:55 14:20

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.544	1.525		-1.2	
2,4-Dinitrotoluene	0.333	0.357		7.2	
Diethylphthalate	1.080	1.140		5.6	
4-Chlorophenyl-phenylether	0.594	0.589		-0.8	
Fluorene	1.188	1.164		-2.0	
4-Nitroaniline	0.248	0.258		4.0	
4,6-Dinitro-2-methylphenol	0.113	0.107		-5.3	
n-Nitrosodiphenylamine	0.644	0.645		0.2	20.0
2,4,6-Tribromophenol	0.186	0.186		0.0	
4-Bromophenyl-phenylether	0.239	0.242		1.3	
Hexachlorobenzene	0.257	0.257		0.0	
Atrazine	0.166	0.195		17.5	
Pentachlorophenol	0.118	0.106		-10.2	20.0
Phenanthrene	1.071	1.052		-1.8	
Anthracene	1.085	1.065		-1.8	
Carbazole	0.889	0.875		-1.6	
Di-n-butylphthalate	0.829	0.956		15.3	
Fluoranthene	0.961	0.922		-4.1	20.0
Pyrene	1.645	1.514		-8.0	
Terphenyl-d14	1.146	1.094		-4.5	
Butylbenzylphthalate	0.449	0.485		8.0	
3,3-Dichlorobenzidine	0.369	0.377		2.2	
Benzo(a)anthracene	1.288	1.239		-3.8	
Chrysene	1.157	1.147		-0.9	
Bis(2-ethylhexyl)phthalate	0.685	0.692		1.0	
Di-n-octyl phthalate	1.268	1.238		-2.4	20.0
Benzo(b)fluoranthene	1.112	1.175		5.7	
Benzo(k)fluoranthene	1.064	0.980		-7.9	
Benzo(a)pyrene	1.032	1.024		-0.8	20.0
Indeno(1,2,3-cd)pyrene	1.437	1.375		-4.3	
Dibenzo(a,h)anthracene	1.151	1.117		-3.0	
Benzo(g,h,i)perylene	1.145	1.055		-7.9	
1,2,4,5-Tetrachlorobenzene	0.572	0.568		-0.7	
1,4-Dioxane	0.531	0.541		1.9	20.0
2,3,4,6-Tetrachlorophenol	0.286	0.289		1.0	

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
Data File : BF143518.D
Acq On : 21 Aug 2025 09:21
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Quant Time: Aug 21 11:45:35 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 21 06:12:21 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.928	152	118001	20.000	ng	0.00
21) Naphthalene-d8	8.210	136	448774	20.000	ng	0.00
39) Acenaphthene-d10	9.963	164	244595	20.000	ng	0.00
64) Phenanthrene-d10	11.451	188	369706	20.000	ng	0.00
76) Chrysene-d12	14.098	240	222503	20.000	ng	0.00
86) Perylene-d12	15.592	264	262934	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.557	112	534460	79.089	ng	0.00
7) Phenol-d6	6.563	99	667138	79.973	ng	-0.01
23) Nitrobenzene-d5	7.487	82	624678	81.228	ng	-0.01
42) 2,4,6-Tribromophenol	10.757	330	181773	79.836	ng	0.00
45) 2-Fluorobiphenyl	9.281	172	1151723	77.819	ng	0.00
79) Terphenyl-d14	13.033	244	973817	76.374	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.734	88	127663	40.780	ng	99
3) Pyridine	3.510	79	338120	40.552	ng	99
4) n-Nitrosodimethylamine	3.457	42	150541	40.163	ng	98
6) Aniline	6.587	93	449531	40.315	ng	91
8) 2-Chlorophenol	6.716	128	300113	40.208	ng	100
9) Benzaldehyde	6.475	77	296436	43.891	ng	96
10) Phenol	6.575	94	387980	40.372	ng	92
11) bis(2-Chloroethyl)ether	6.657	93	289515	40.314	ng	99
12) 1,3-Dichlorobenzene	6.869	146	333800	39.802	ng	99
13) 1,4-Dichlorobenzene	6.945	146	336877	40.045	ng	99
14) 1,2-Dichlorobenzene	7.098	146	319564	40.122	ng	100
15) Benzyl Alcohol	7.069	79	254573	40.760	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.193	45	457661	39.834	ng	90
17) 2-Methylphenol	7.181	107	242686	40.511	ng	97
18) Hexachloroethane	7.440	117	115654	40.435	ng	97
19) n-Nitroso-di-n-propyla...	7.334	70	203044	39.822	ng	99
20) 3+4-Methylphenols	7.334	107	289653	40.503	ng	98
22) Acetophenone	7.334	105	383042	39.507	ng	99
24) Nitrobenzene	7.504	77	324679	41.020	ng	99
25) Isophorone	7.745	82	565357	40.104	ng	100
26) 2-Nitrophenol	7.822	139	161941	41.767	ng	97
27) 2,4-Dimethylphenol	7.863	122	242413	40.108	ng	99
28) bis(2-Chloroethoxy)met...	7.951	93	344305	39.742	ng	100
29) 2,4-Dichlorophenol	8.069	162	260040	40.285	ng	99
30) 1,2,4-Trichlorobenzene	8.151	180	265906	40.066	ng	98
31) Naphthalene	8.234	128	852935	39.587	ng	100
32) Benzoic acid	7.975	122	117106	35.717	ng	98
33) 4-Chloroaniline	8.275	127	304385	39.804	ng	99
34) Hexachlorobutadiene	8.351	225	174035	40.194	ng	100
35) Caprolactam	8.645	113	69912	45.135	ng	98
36) 4-Chloro-3-methylphenol	8.763	107	259690	40.144	ng	99
37) 2-Methylnaphthalene	8.922	142	562491	39.089	ng	100
38) 1-Methylnaphthalene	9.022	142	542827	39.436	ng	100
40) 1,2,4,5-Tetrachloroben...	9.086	216	277705	39.693	ng	100
41) Hexachlorocyclopentadiene	9.081	237	82522	34.356	ng	99
43) 2,4,6-Trichlorophenol	9.204	196	173645	40.335	ng	100

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
Data File : BF143518.D
Acq On : 21 Aug 2025 09:21
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Quant Time: Aug 21 11:45:35 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 21 06:12:21 2025
Response via : Initial Calibration

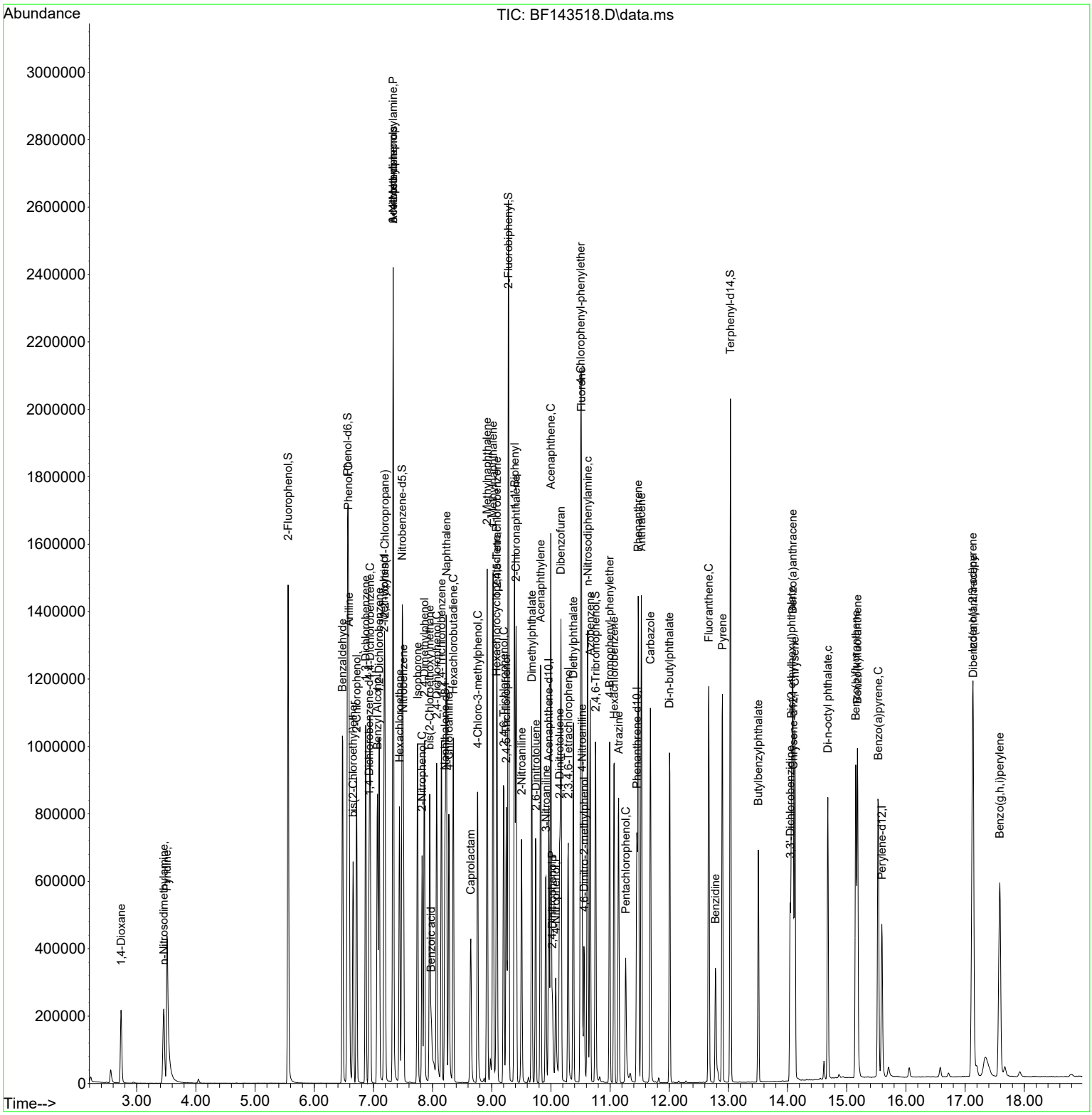
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.245	196	186067	39.568	ng	99
46) 1,1'-Biphenyl	9.386	154	680592	39.203	ng	99
47) 2-Chloronaphthalene	9.410	162	536315	39.372	ng	99
48) 2-Nitroaniline	9.504	65	163759	41.078	ng	97
49) Acenaphthylene	9.828	152	771789	39.570	ng	99
50) Dimethylphthalate	9.675	163	611411	41.504	ng	100
51) 2,6-Dinitrotoluene	9.745	165	129744	42.495	ng	98
52) Acenaphthene	9.998	154	521988	39.417	ng	100
53) 3-Nitroaniline	9.916	138	135772	41.155	ng	99
54) 2,4-Dinitrophenol	10.022	184	53382	35.824	ng	93
55) Dibenzofuran	10.169	168	745949	39.509	ng	99
56) 4-Nitrophenol	10.081	139	75600	38.513	ng	95
57) 2,4-Dinitrotoluene	10.145	165	174534	42.812	ng	97
58) Fluorene	10.516	166	569387	39.184	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.292	232	141362	40.463	ng	99
60) Diethylphthalate	10.381	149	557513	42.212	ng	99
61) 4-Chlorophenyl-phenyle...	10.504	204	288368	39.680	ng	98
62) 4-Nitroaniline	10.528	138	126293	41.677	ng	99
63) Azobenzene	10.663	77	549552	40.129	ng	99
65) 4,6-Dinitro-2-methylph...	10.563	198	79062	37.928	ng	98
66) n-Nitrosodiphenylamine	10.622	169	477218	40.110	ng	99
67) 4-Bromophenyl-phenylether	10.992	248	178840	40.542	ng	97
68) Hexachlorobenzene	11.069	284	190099	39.979	ng	99
69) Atrazine	11.145	200	143876	46.846	ng	99
70) Pentachlorophenol	11.263	266	78686	36.133	ng	99
71) Phenanthrene	11.475	178	777957	39.294	ng	100
72) Anthracene	11.528	178	787324	39.255	ng	100
73) Carbazole	11.680	167	647183	39.380	ng	99
74) Di-n-butylphthalate	12.004	149	707138	46.124	ng	99
75) Fluoranthene	12.669	202	681682	38.372	ng	99
77) Benzidine	12.780	184	216953	40.029	ng	99
78) Pyrene	12.898	202	673559	36.801	ng	99
80) Butylbenzylphthalate	13.504	149	215877	43.176	ng	100
81) Benzo(a)anthracene	14.086	228	551541	38.502	ng	100
82) 3,3'-Dichlorobenzidine	14.045	252	167699	40.879	ng	98
83) Chrysene	14.121	228	510484	39.654	ng	100
84) Bis(2-ethylhexyl)phtha...	14.069	149	308015	40.447	ng	99
85) Di-n-octyl phthalate	14.680	149	551091	39.064	ng	100
87) Indeno(1,2,3-cd)pyrene	17.127	276	722883	38.259	ng	100
88) Benzo(b)fluoranthene	15.151	252	618031	42.286	ng	99
89) Benzo(k)fluoranthene	15.180	252	515140	36.812	ng	99
90) Benzo(a)pyrene	15.533	252	538725	39.710	ng	99
91) Dibenzo(a,h)anthracene	17.139	278	587454	38.822	ng	99
92) Benzo(g,h,i)perylene	17.586	276	554893	36.878	ng	99

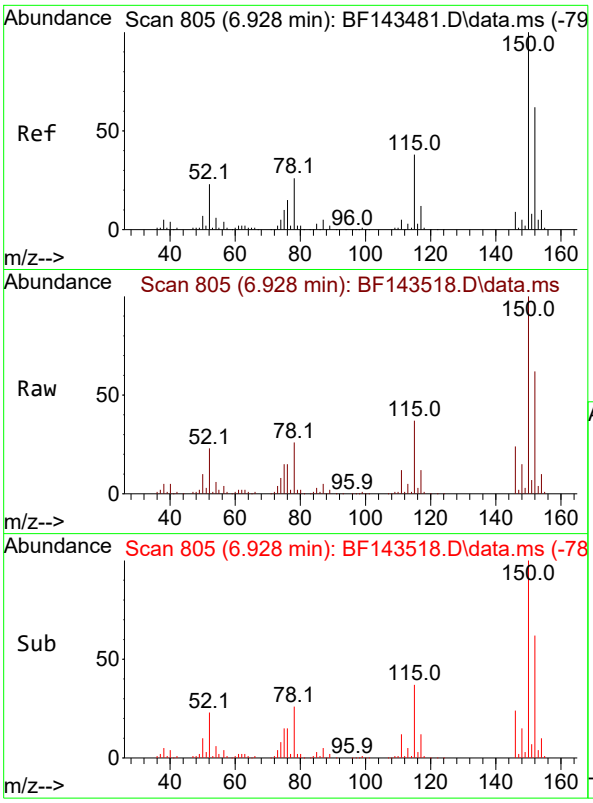
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
Data File : BF143518.D
Acq On : 21 Aug 2025 09:21
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Quant Time: Aug 21 11:45:35 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 21 06:12:21 2025
Response via : Initial Calibration



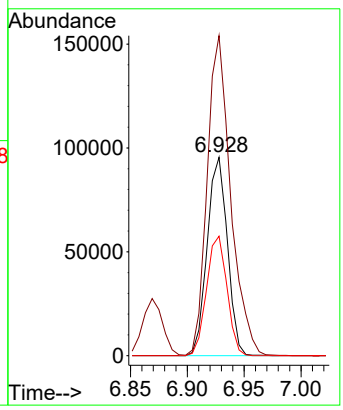


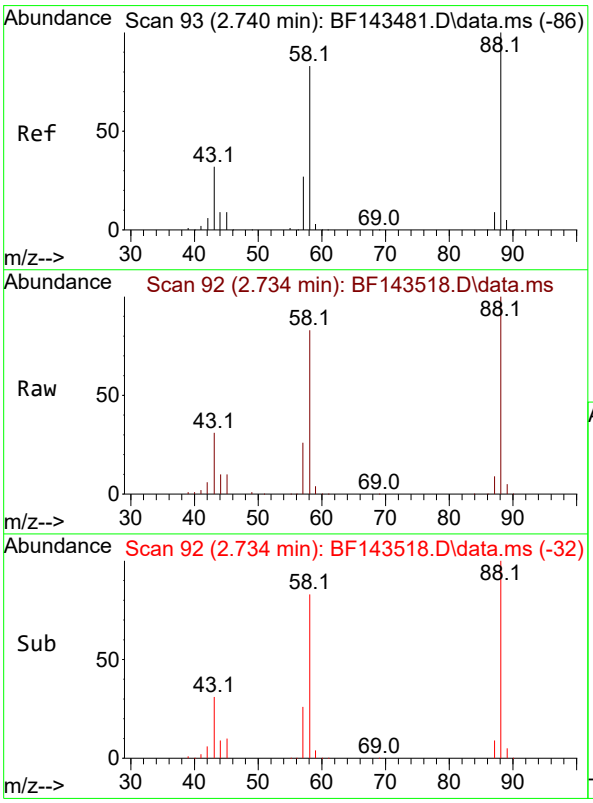
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.928 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:152 Resp: 118001

Ion	Ratio	Lower	Upper
152	100		
150	161.3	128.9	193.3
115	60.3	49.2	73.8

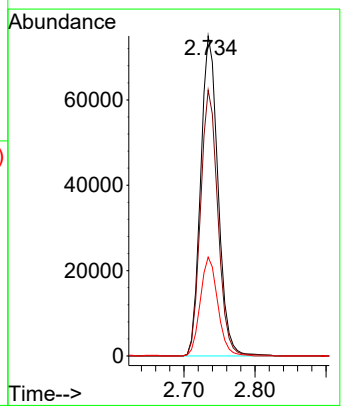


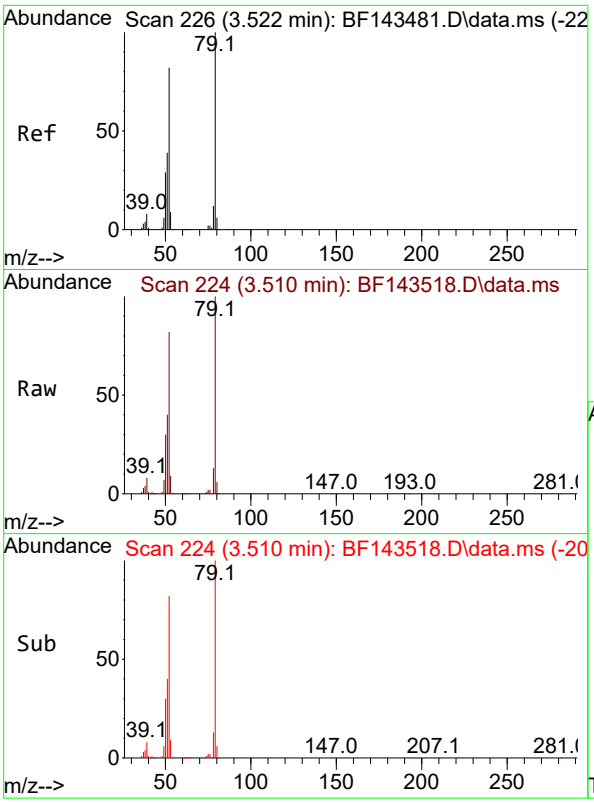


#2
1,4-Dioxane
Concen: 40.780 ng
RT: 2.734 min Scan# 92
Delta R.T. 0.000 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Tgt Ion: 88 Resp: 127663

Ion	Ratio	Lower	Upper
88	100		
58	82.7	66.7	100.1
43	31.1	25.8	38.8



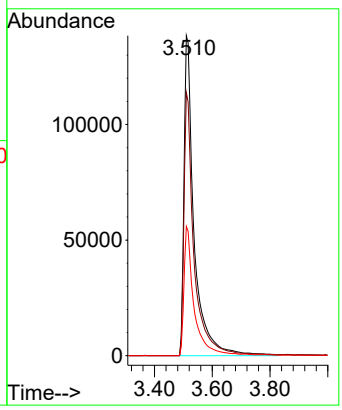


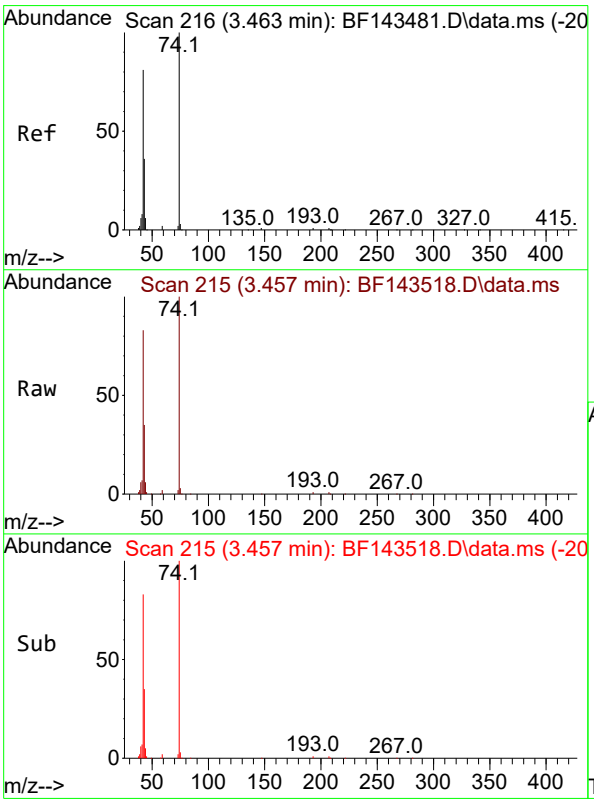
#3
Pyridine
Concen: 40.552 ng
RT: 3.510 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 79 Resp: 338120

Ion	Ratio	Lower	Upper
79	100		
52	82.2	65.6	98.4
51	40.4	31.2	46.8

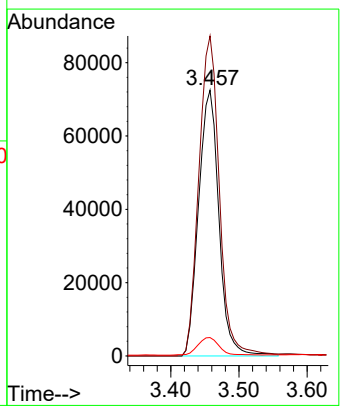


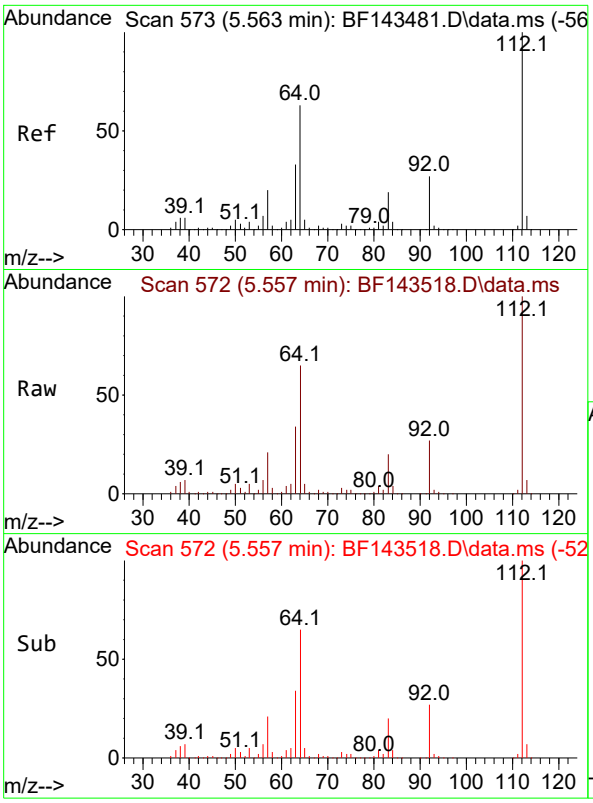


#4
n-Nitrosodimethylamine
Concen: 40.163 ng
RT: 3.457 min Scan# 215
Delta R.T. -0.018 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Tgt Ion: 42 Resp: 150541

Ion	Ratio	Lower	Upper
42	100		
74	120.4	98.6	148.0
44	6.9	5.8	8.8



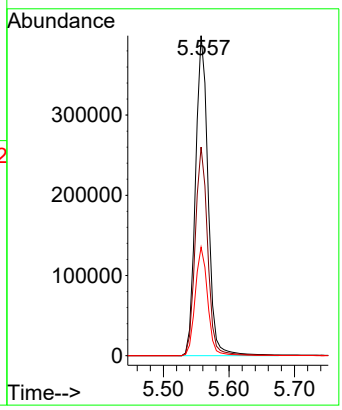


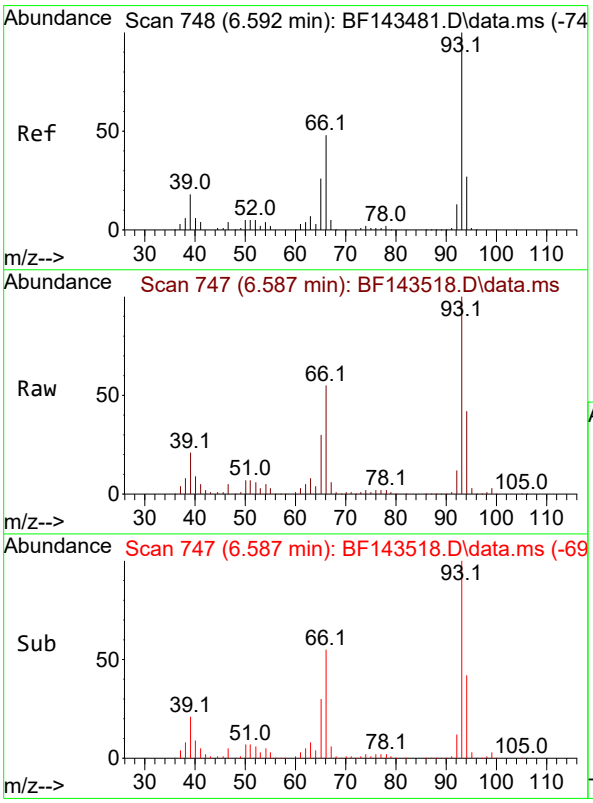
#5
2-Fluorophenol
Concen: 79.089 ng
RT: 5.557 min Scan# 5
Delta R.T. -0.006 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:112 Resp: 534460

Ion	Ratio	Lower	Upper
112	100		
64	65.2	50.4	75.6
63	33.9	26.4	39.6

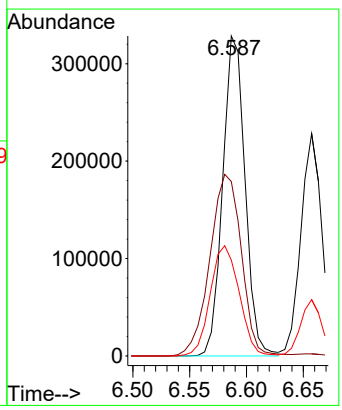


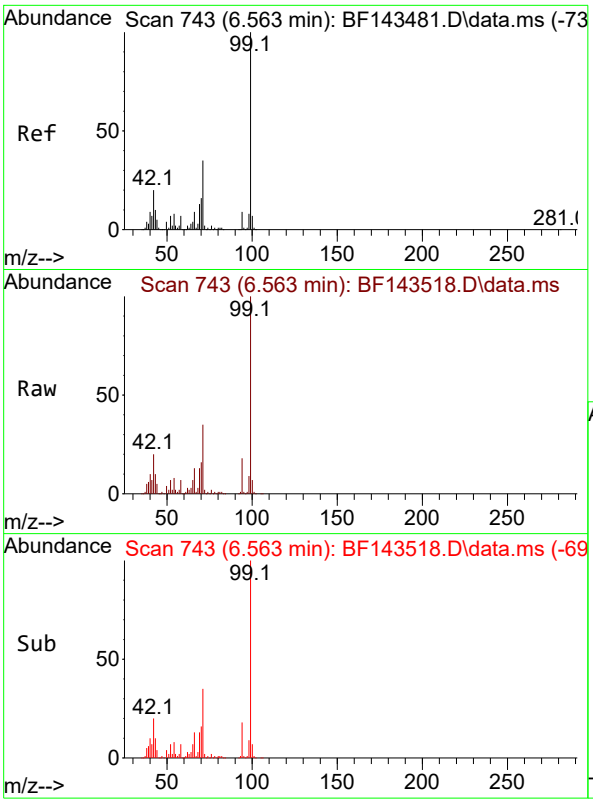


#6
Aniline
Concen: 40.315 ng
RT: 6.587 min Scan# 747
Delta R.T. -0.006 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Tgt Ion: 93 Resp: 449531

Ion	Ratio	Lower	Upper
93	100		
66	54.5	38.9	58.3
65	30.0	20.6	30.8



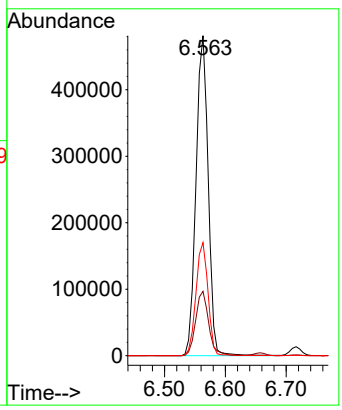


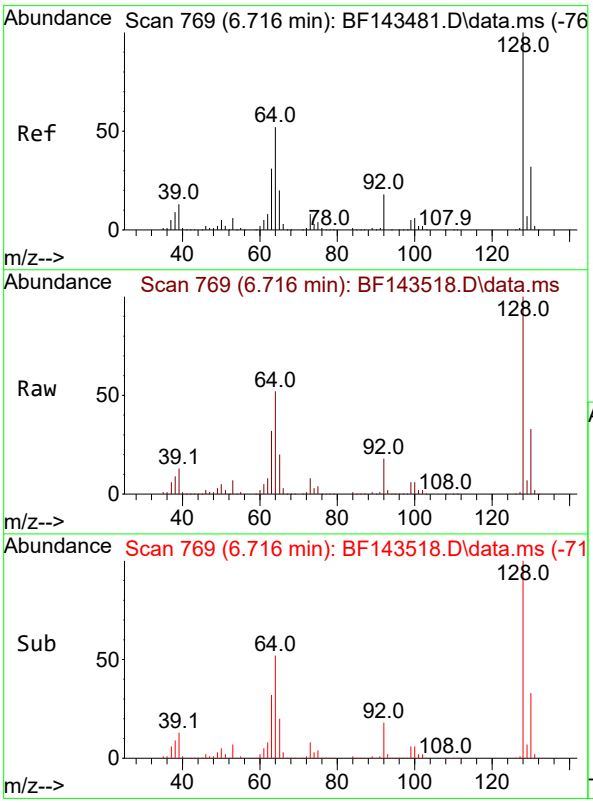
#7
Phenol-d6
Concen: 79.973 ng
RT: 6.563 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 99 Resp: 667138

Ion	Ratio	Lower	Upper
99	100		
42	20.1	16.3	24.5
71	35.3	28.2	42.2

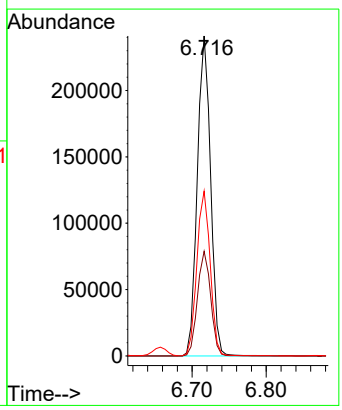


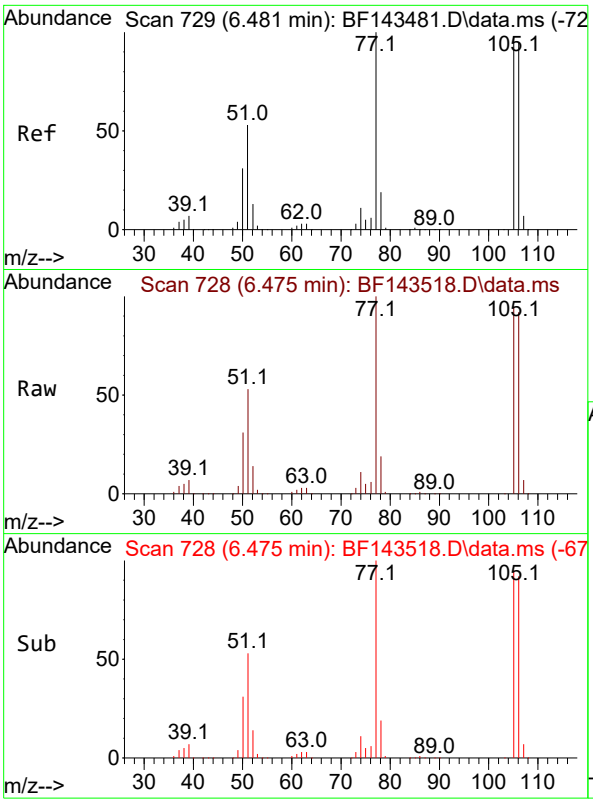


#8
2-Chlorophenol
Concen: 40.208 ng
RT: 6.716 min Scan# 769
Delta R.T. -0.006 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Tgt Ion:128 Resp: 300113

Ion	Ratio	Lower	Upper
128	100		
130	32.7	12.4	52.4
64	51.5	31.6	71.6



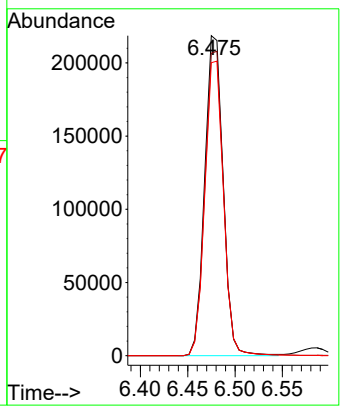


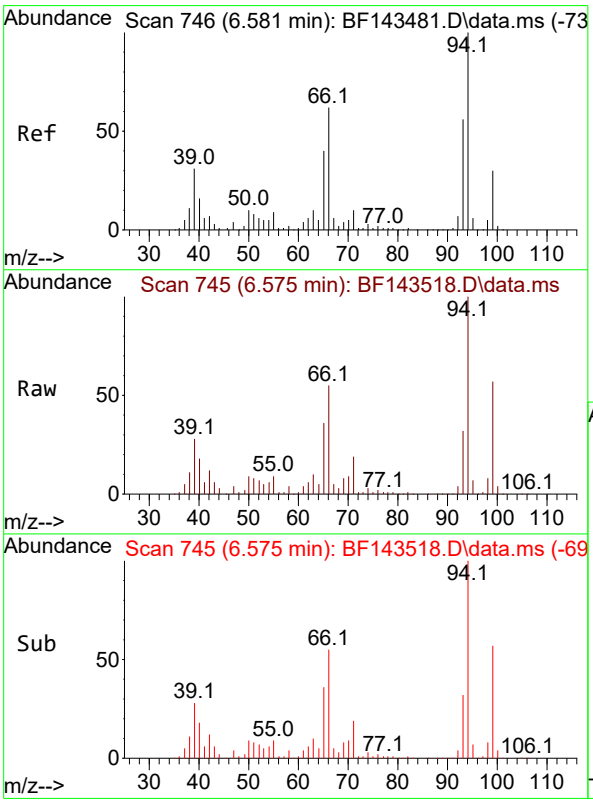
#9
Benzaldehyde
Concen: 43.891 ng
RT: 6.475 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 77 Resp: 296436

Ion	Ratio	Lower	Upper
77	100		
105	94.6	78.1	118.1
106	91.6	74.9	114.9

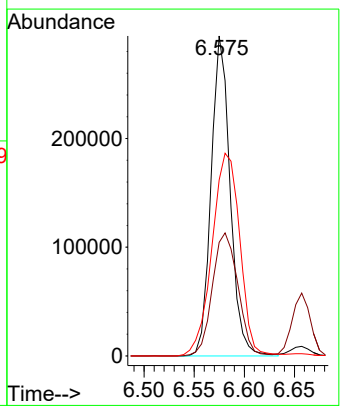


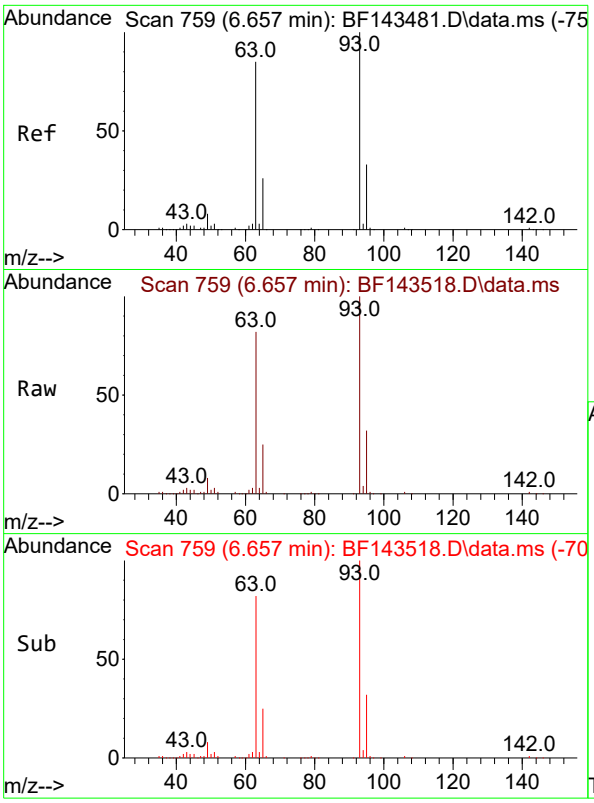


#10
Phenol
Concen: 40.372 ng
RT: 6.575 min Scan# 745
Delta R.T. -0.012 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Tgt Ion: 94 Resp: 387980

Ion	Ratio	Lower	Upper
94	100		
65	35.5	19.5	59.5
66	55.0	42.5	82.5



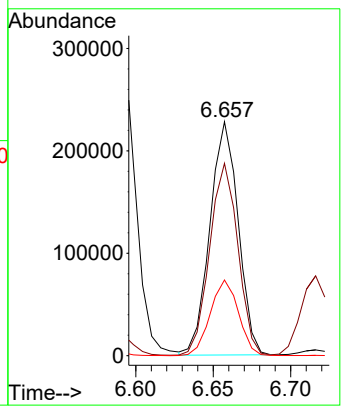


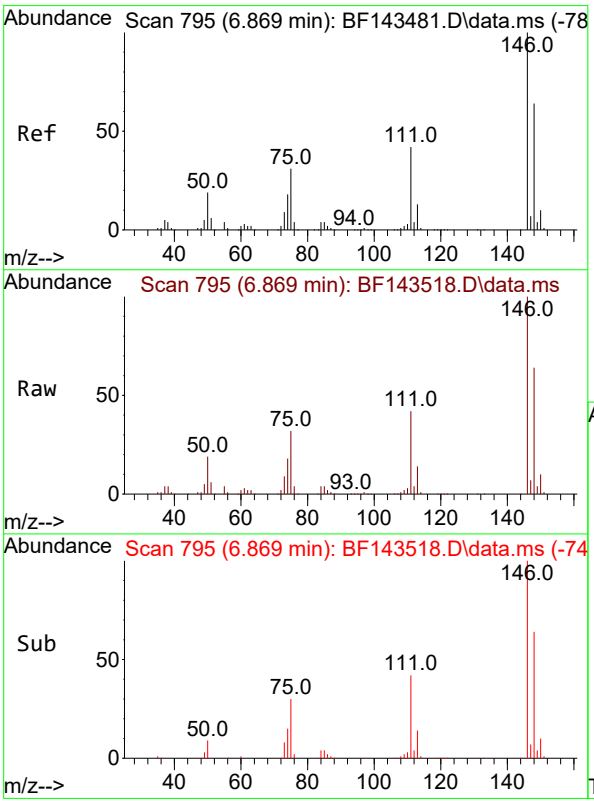
#11
bis(2-Chloroethyl)ether
Concen: 40.314 ng
RT: 6.657 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 93 Resp: 289515

Ion	Ratio	Lower	Upper
93	100		
63	82.2	63.6	103.6
95	32.4	12.8	52.8

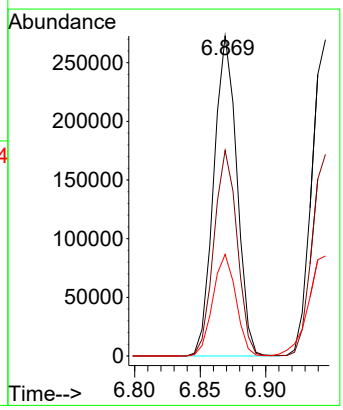


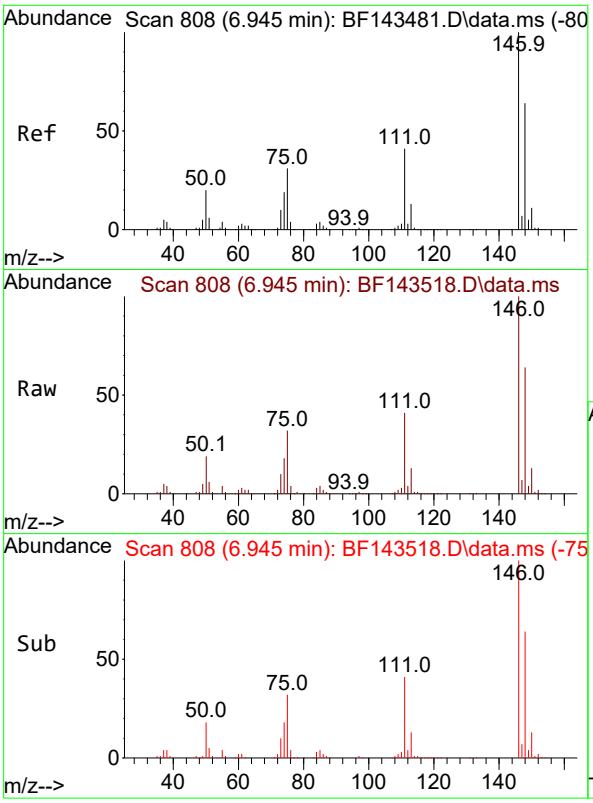


#12
1,3-Dichlorobenzene
Concen: 39.802 ng
RT: 6.869 min Scan# 795
Delta R.T. -0.006 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Tgt Ion:146 Resp: 333800

Ion	Ratio	Lower	Upper
146	100		
148	64.3	51.3	76.9
75	31.8	24.7	37.1



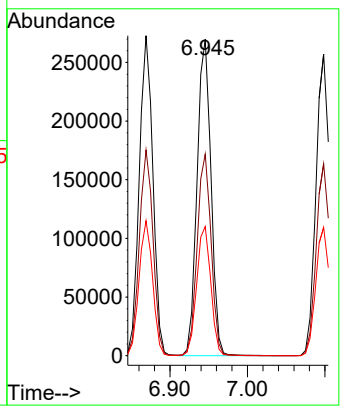


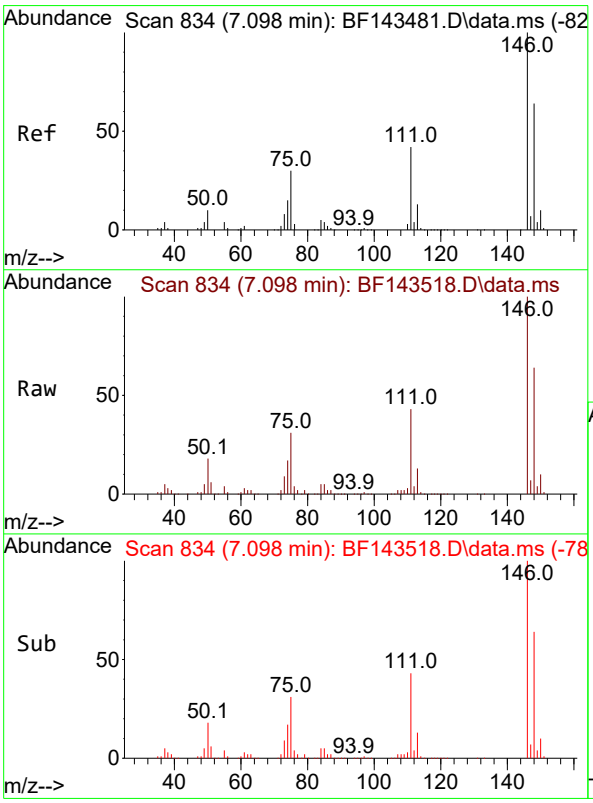
#13
1,4-Dichlorobenzene
Concen: 40.045 ng
RT: 6.945 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:146 Resp: 336877

Ion	Ratio	Lower	Upper
146	100		
148	63.7	51.5	77.3
111	40.8	32.6	49.0

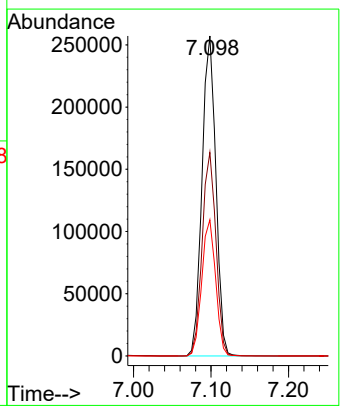


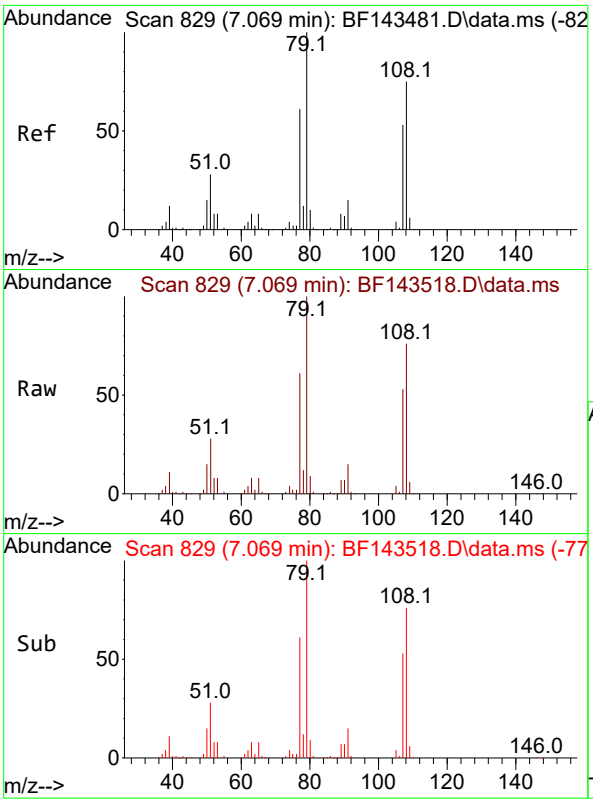


#14
1,2-Dichlorobenzene
Concen: 40.122 ng
RT: 7.098 min Scan# 834
Delta R.T. 0.000 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Tgt Ion:146 Resp: 319564

Ion	Ratio	Lower	Upper
146	100		
148	63.6	51.0	76.6
111	42.5	34.0	51.0



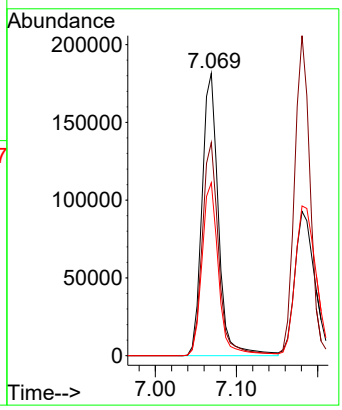


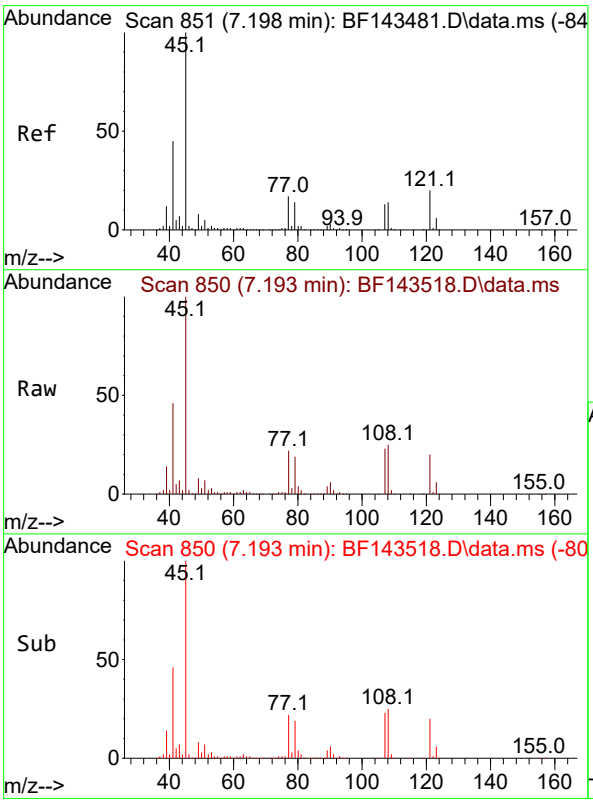
#15
Benzyl Alcohol
Concen: 40.760 ng
RT: 7.069 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 79 Resp: 254573

Ion	Ratio	Lower	Upper
79	100		
108	75.5	59.8	89.6
77	61.3	49.0	73.4

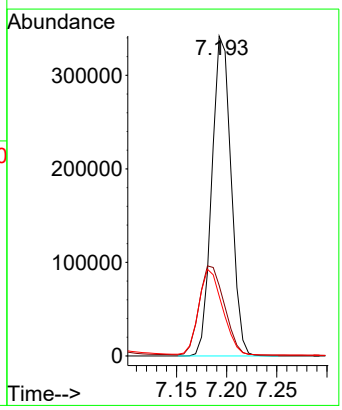


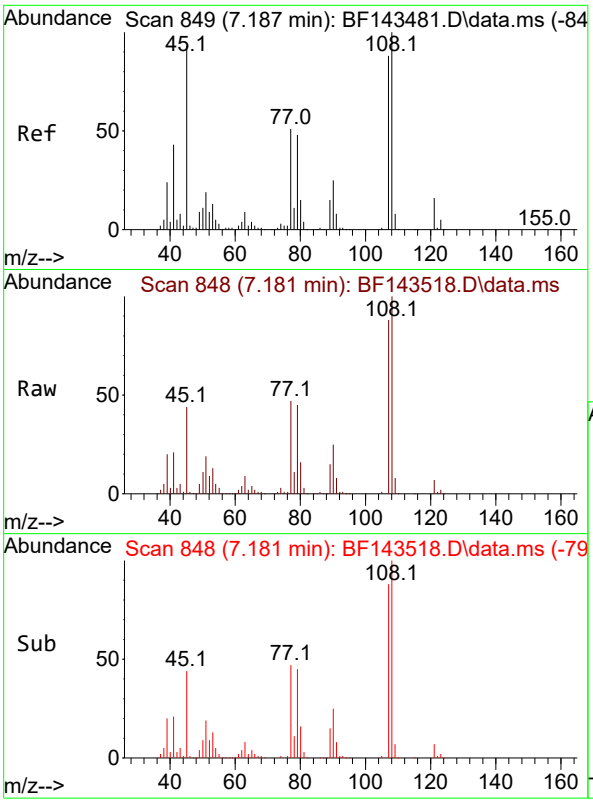


#16
2,2'-oxybis(1-Chloropropane)
Concen: 39.834 ng
RT: 7.193 min Scan# 850
Delta R.T. -0.006 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Tgt Ion: 45 Resp: 457661

Ion	Ratio	Lower	Upper
45	100		
77	22.0	0.0	37.9
79	18.8	0.0	34.7



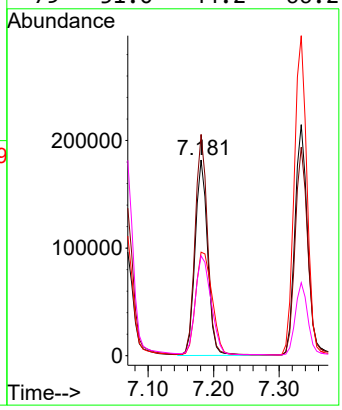


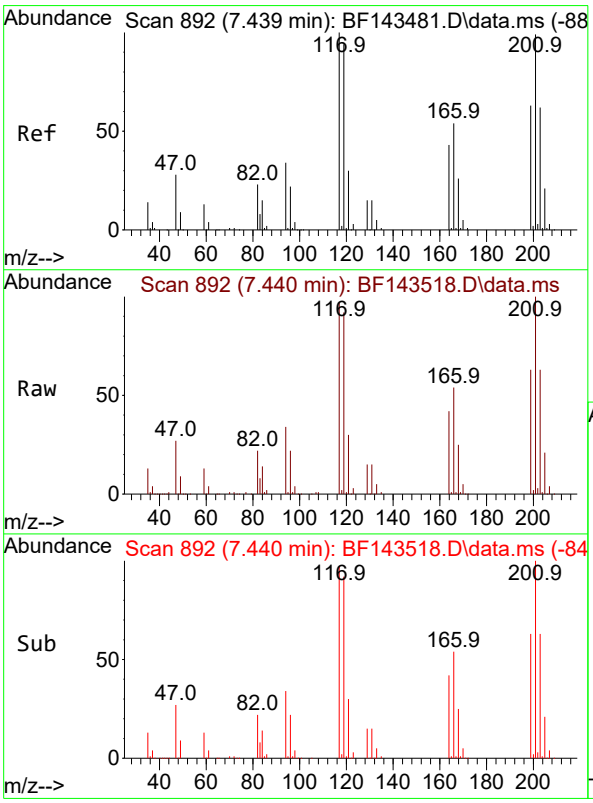
#17
2-Methylphenol
Concen: 40.511 ng
RT: 7.181 min Scan# 84
Delta R.T. -0.006 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:107 Resp: 242686

Ion	Ratio	Lower	Upper
107	100		
108	113.1	91.1	136.7
77	52.9	46.2	69.4
79	51.0	44.2	66.2

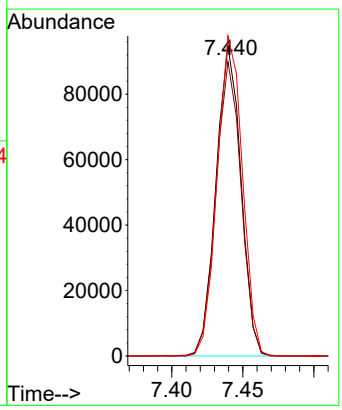


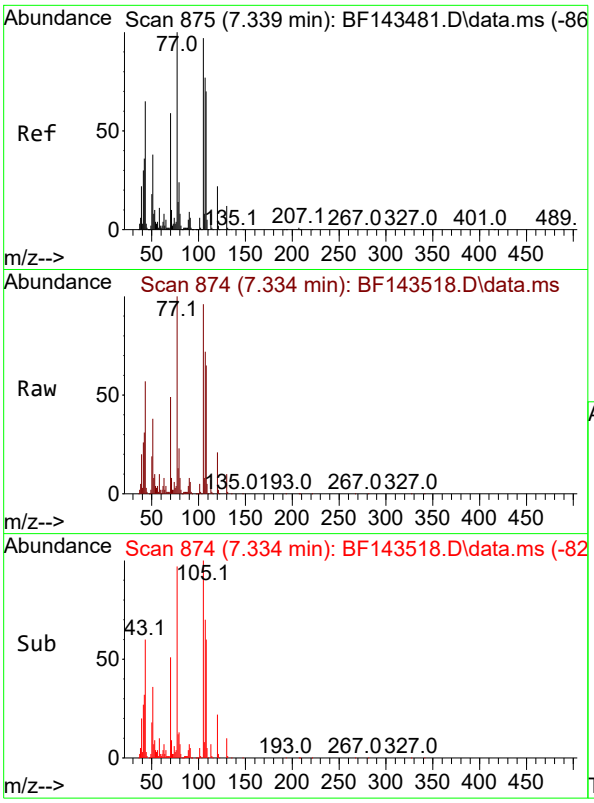


#18
Hexachloroethane
Concen: 40.435 ng
RT: 7.440 min Scan# 892
Delta R.T. -0.006 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Tgt Ion:117 Resp: 115654

Ion	Ratio	Lower	Upper
117	100		
119	94.9	75.4	113.0
201	103.2	79.0	118.4



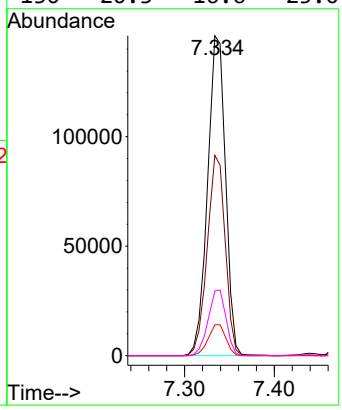


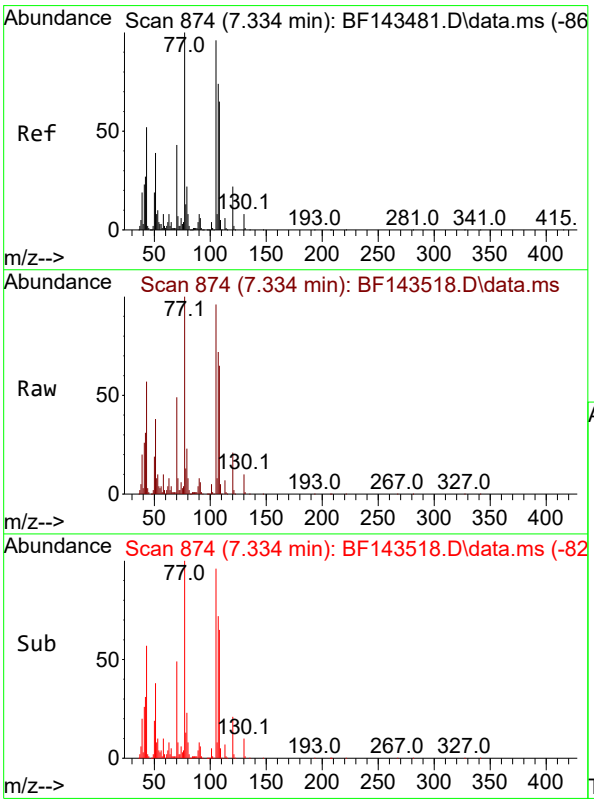
#19
n-Nitroso-di-n-propylamine
Concen: 39.822 ng
RT: 7.334 min Scan# 8
Delta R.T. -0.018 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 70 Resp: 203044

Ion	Ratio	Lower	Upper
70	100		
42	62.6	49.3	73.9
101	9.7	7.8	11.8
130	20.3	16.6	25.0

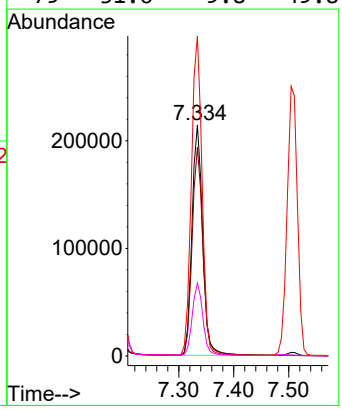


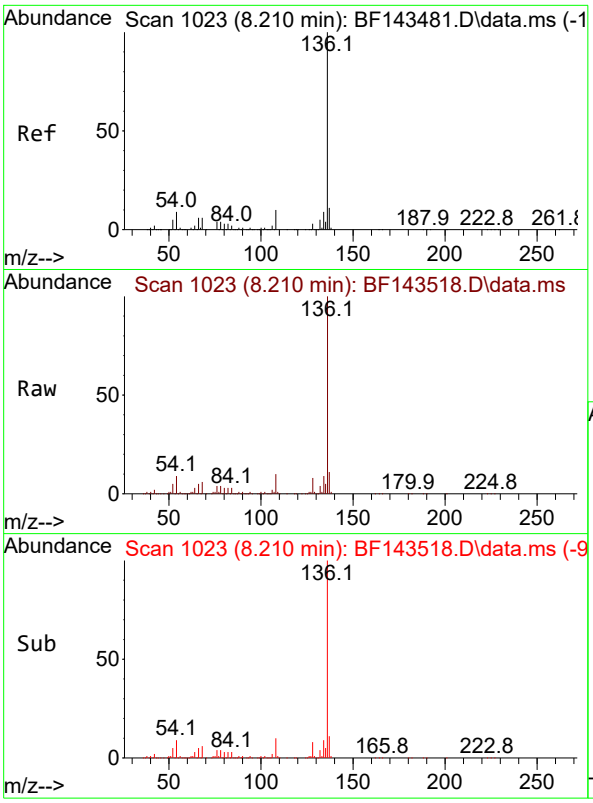


#20
3+4-Methylphenols
Concen: 40.503 ng
RT: 7.334 min Scan# 874
Delta R.T. -0.006 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Tgt Ion:107 Resp: 289653

Ion	Ratio	Lower	Upper
107	100		
108	90.3	68.4	108.4
77	138.5	116.1	156.1
79	31.6	9.8	49.8



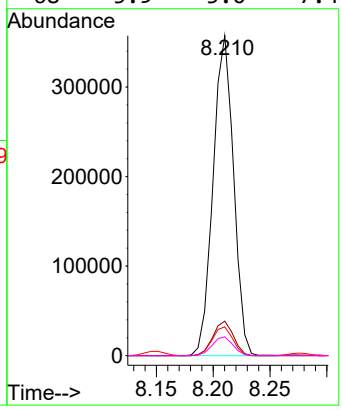


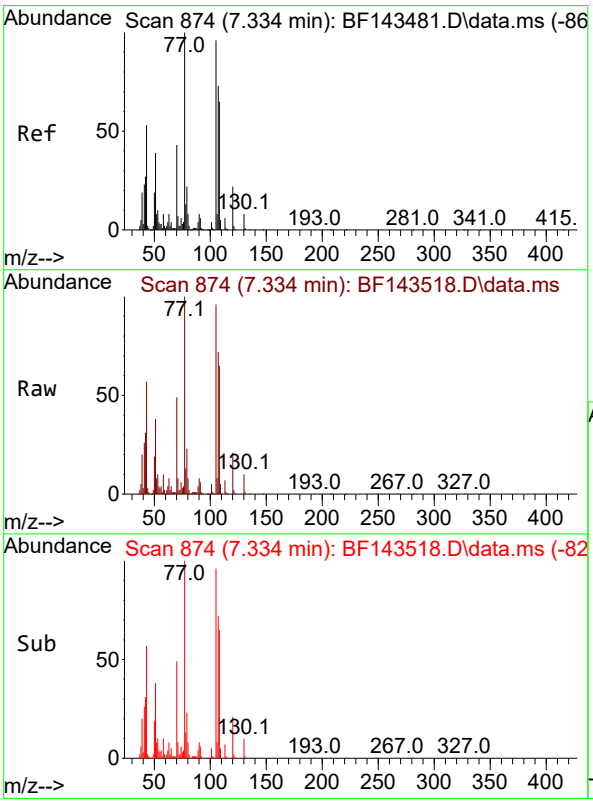
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.210 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:136 Resp: 448774

Ion	Ratio	Lower	Upper
136	100		
137	10.8	9.0	13.4
54	9.0	7.4	11.2
68	5.9	5.0	7.4

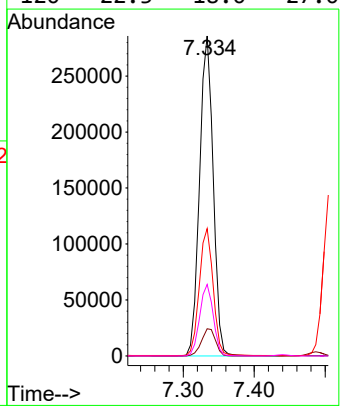


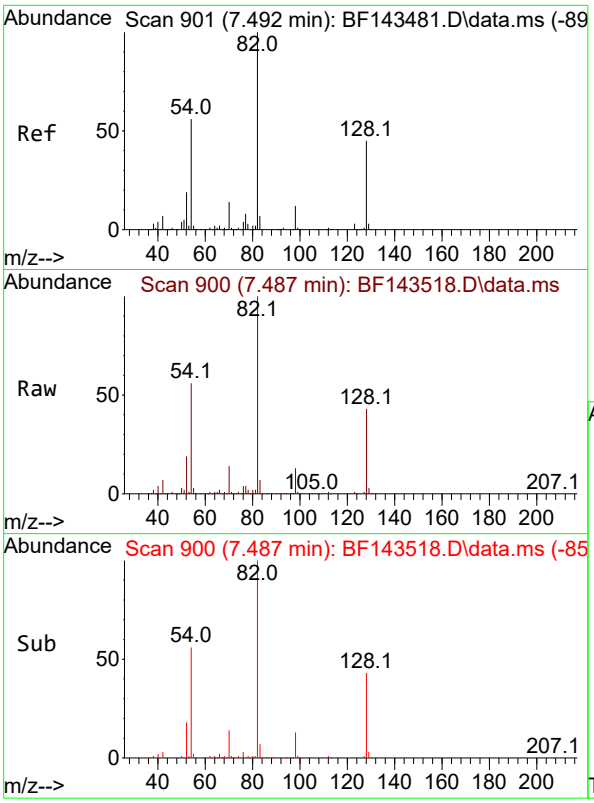


#22
Acetophenone
Concen: 39.507 ng
RT: 7.334 min Scan# 874
Delta R.T. -0.006 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Tgt Ion:105 Resp: 383042

Ion	Ratio	Lower	Upper
105	100		
71	8.5	5.9	8.9
51	39.8	32.5	48.7
120	22.3	18.0	27.0



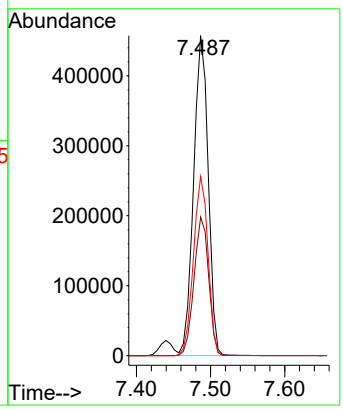


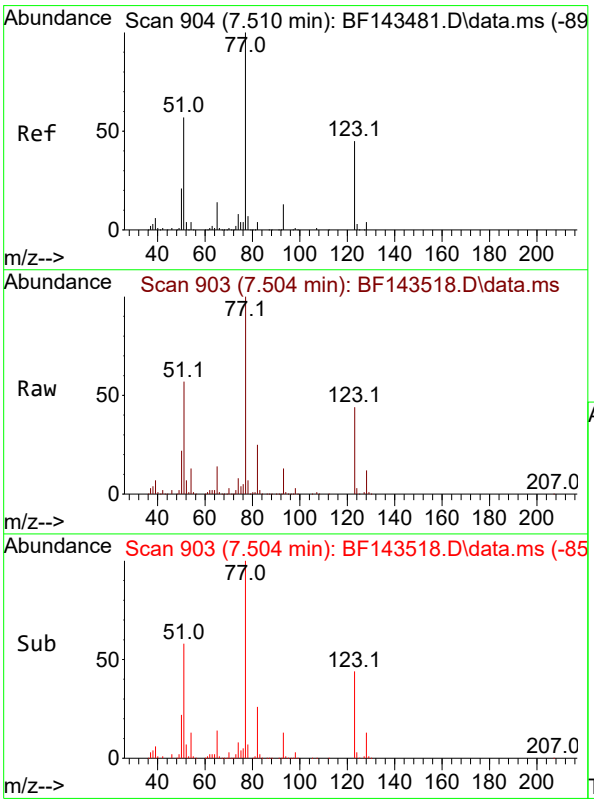
#23
Nitrobenzene-d5
Concen: 81.228 ng
RT: 7.487 min Scan# 9
Delta R.T. -0.012 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 82 Resp: 624678

Ion	Ratio	Lower	Upper
82	100		
128	43.3	35.5	53.3
54	56.1	44.3	66.5

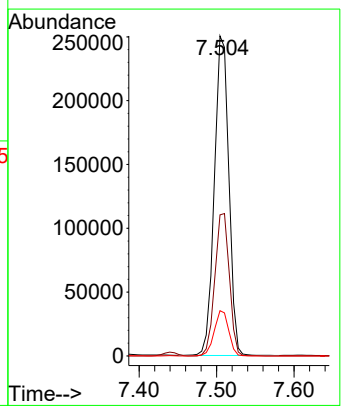


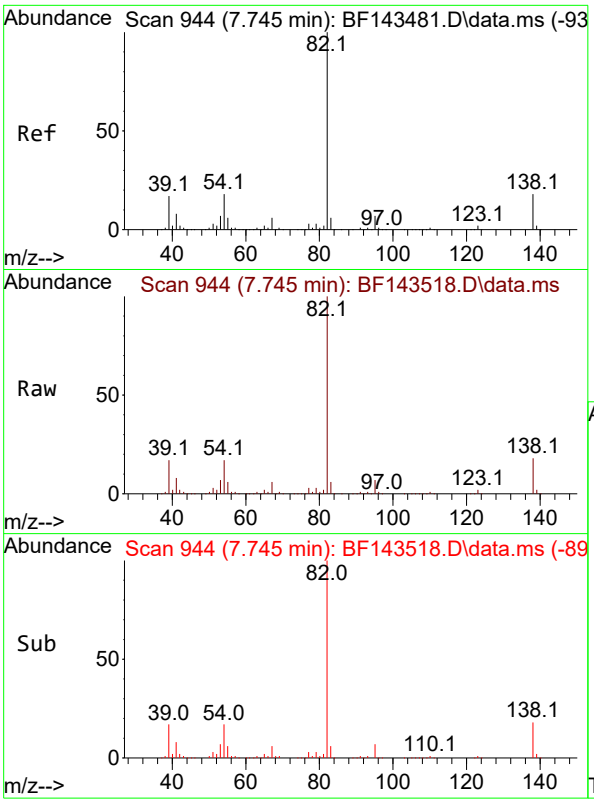


#24
Nitrobenzene
Concen: 41.020 ng
RT: 7.504 min Scan# 903
Delta R.T. -0.012 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Tgt Ion: 77 Resp: 324679

Ion	Ratio	Lower	Upper
77	100		
123	44.1	36.1	54.1
65	14.1	11.0	16.6



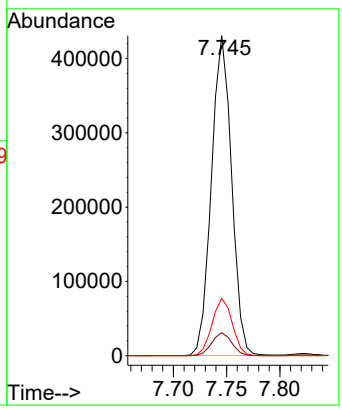


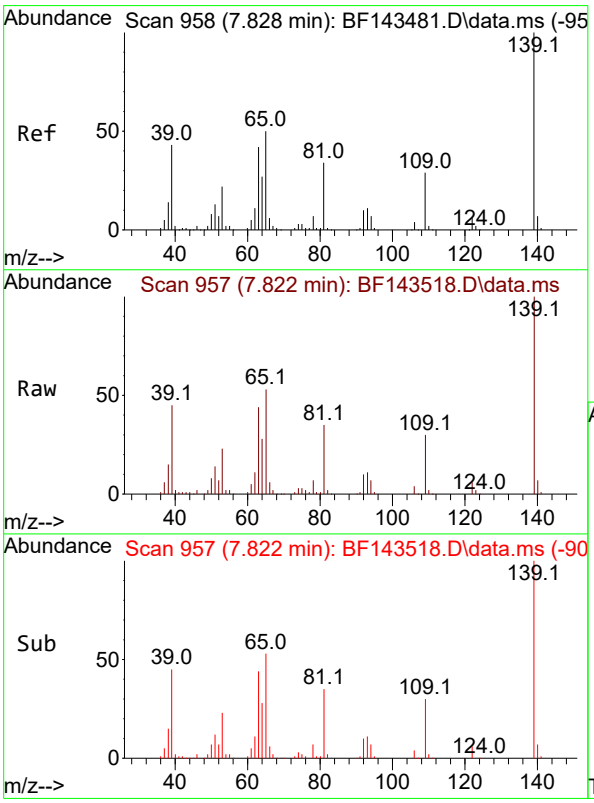
#25
Isophorone
Concen: 40.104 ng
RT: 7.745 min Scan# 94
Delta R.T. -0.012 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 82 Resp: 565357

Ion	Ratio	Lower	Upper
82	100		
95	7.2	5.8	8.8
138	17.9	14.2	21.4

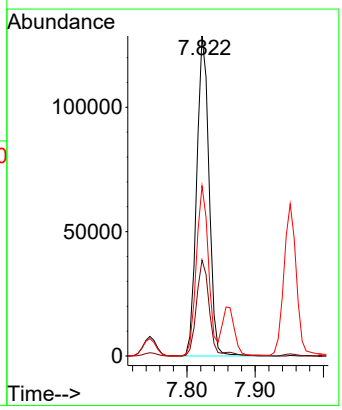


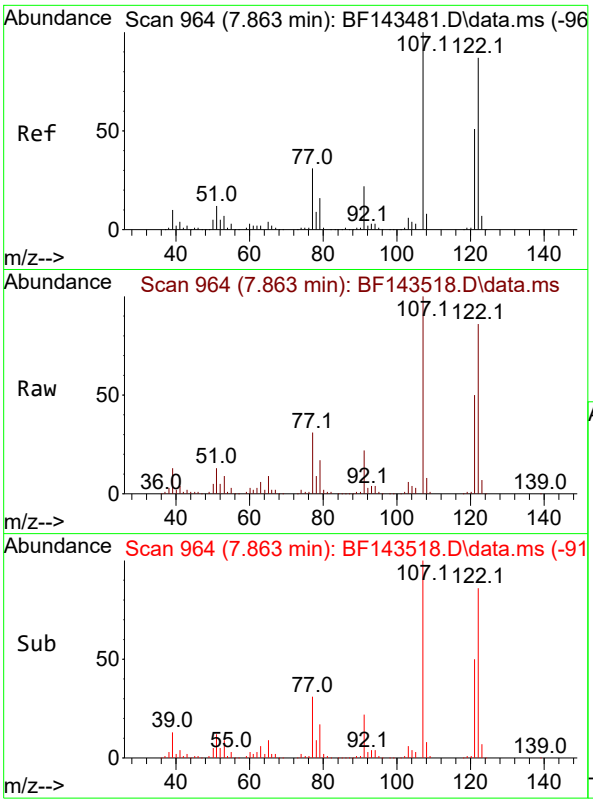


#26
2-Nitrophenol
Concen: 41.767 ng
RT: 7.822 min Scan# 957
Delta R.T. -0.006 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Tgt Ion:139 Resp: 161941

Ion	Ratio	Lower	Upper
139	100		
109	30.0	23.0	34.6
65	53.1	40.3	60.5



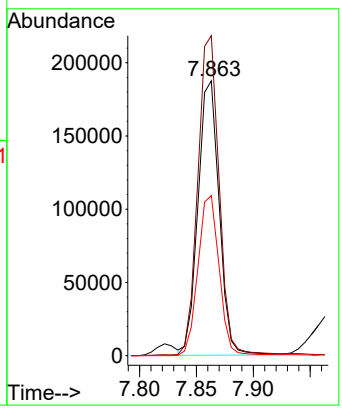


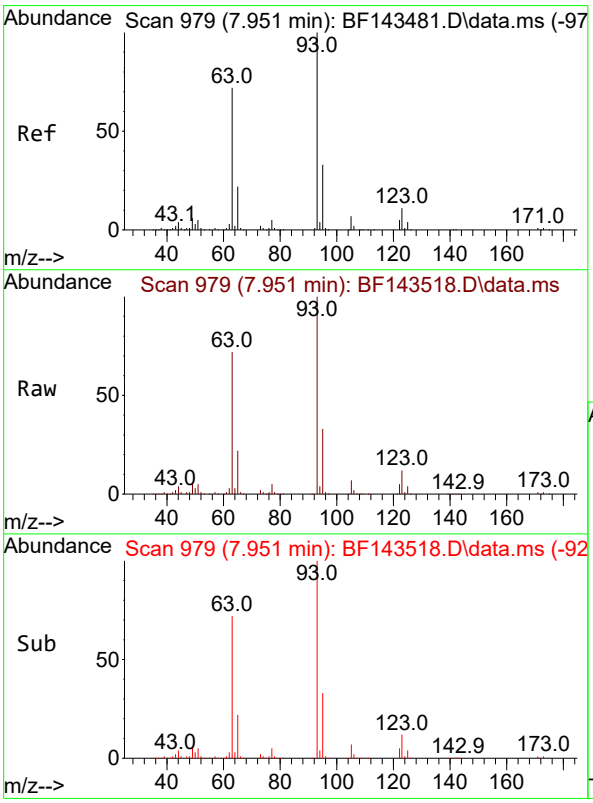
#27
2,4-Dimethylphenol
Concen: 40.108 ng
RT: 7.863 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:122 Resp: 242413

Ion	Ratio	Lower	Upper
122	100		
107	116.4	91.5	137.3
121	58.3	47.0	70.4

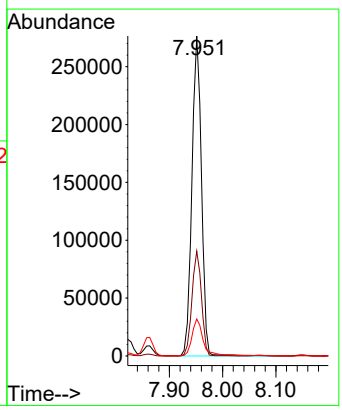


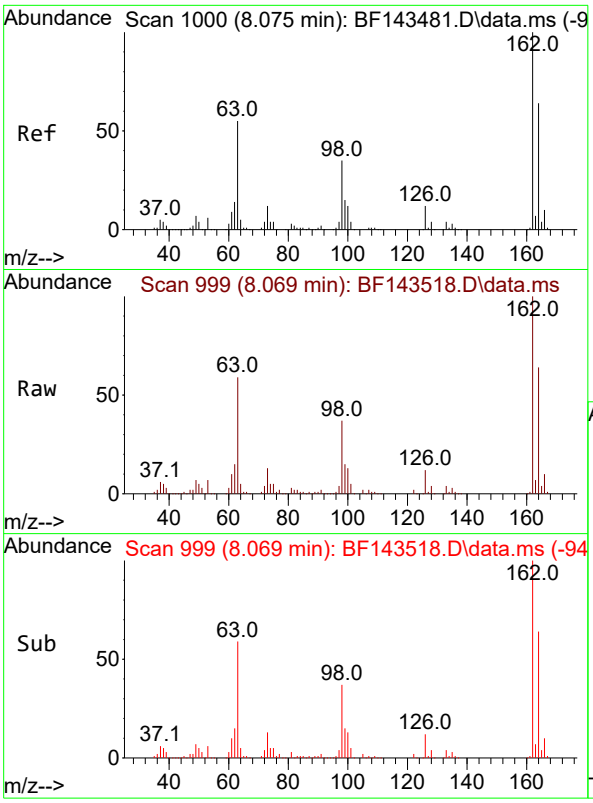


#28
bis(2-Chloroethoxy)methane
Concen: 39.742 ng
RT: 7.951 min Scan# 979
Delta R.T. -0.006 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Tgt Ion: 93 Resp: 344305

Ion	Ratio	Lower	Upper
93	100		
95	32.8	26.0	39.0
123	11.6	9.1	13.7



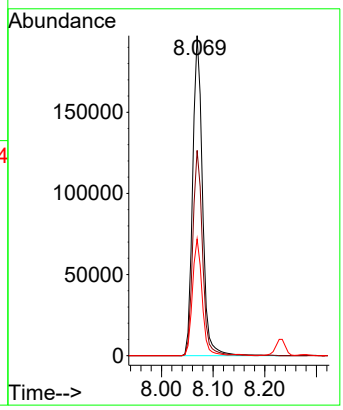


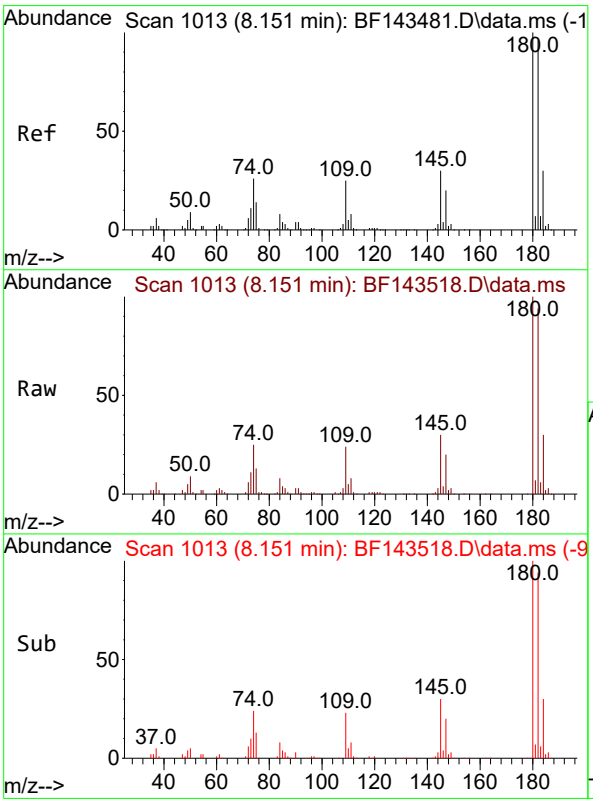
#29
2,4-Dichlorophenol
Concen: 40.285 ng
RT: 8.069 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:162 Resp: 260040

Ion	Ratio	Lower	Upper
162	100		
164	64.1	43.5	83.5
98	36.5	15.1	55.1

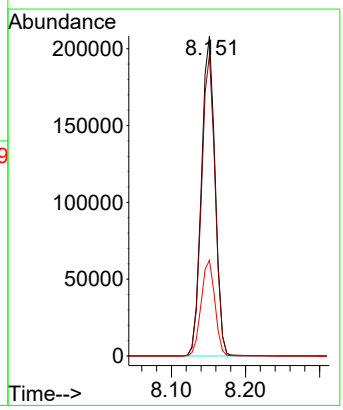


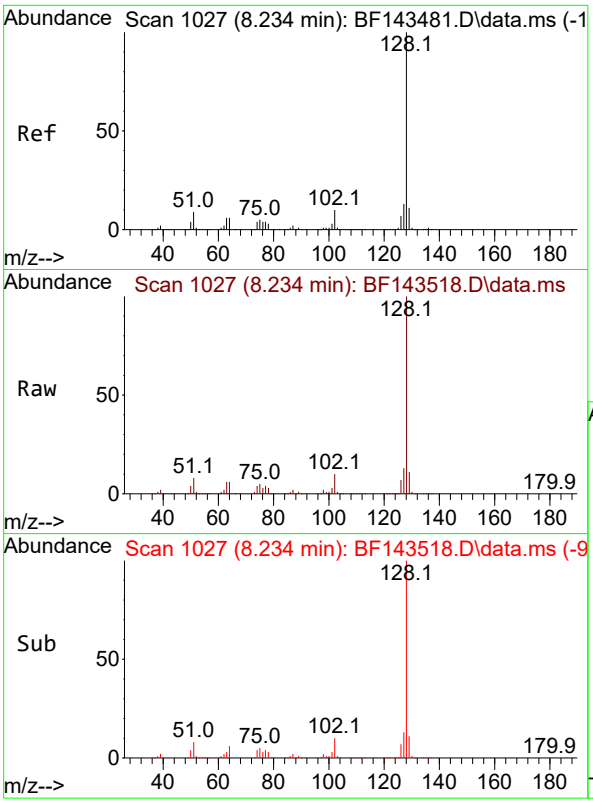


#30
1,2,4-Trichlorobenzene
Concen: 40.066 ng
RT: 8.151 min Scan# 1013
Delta R.T. 0.000 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Tgt Ion:180 Resp: 265906

Ion	Ratio	Lower	Upper
180	100		
182	94.0	76.6	114.8
145	29.9	24.3	36.5



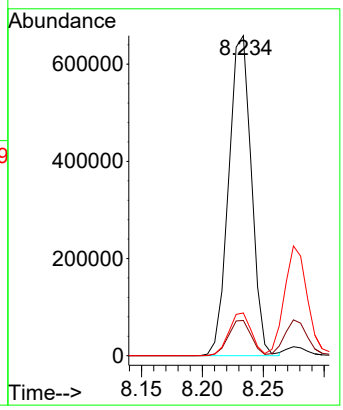


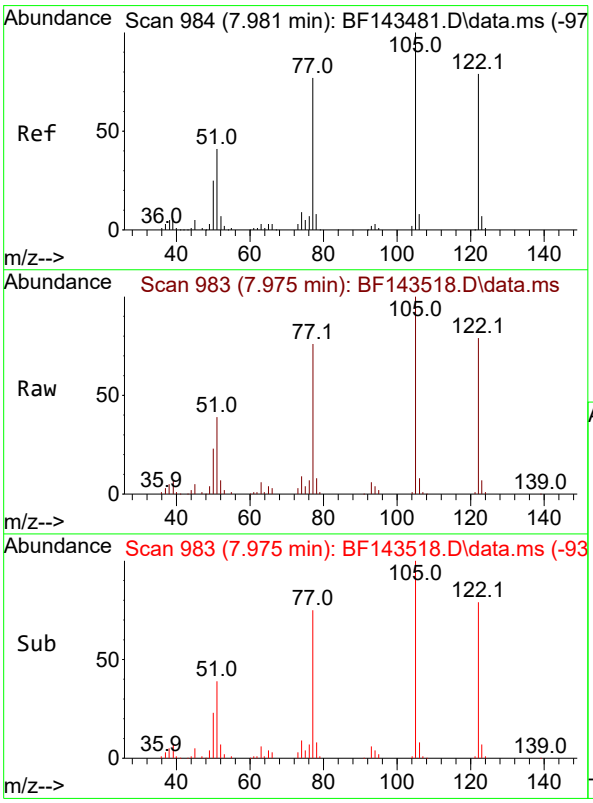
#31
Naphthalene
Concen: 39.587 ng
RT: 8.234 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:128 Resp: 852935

Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.8	13.2
127	13.4	10.6	16.0

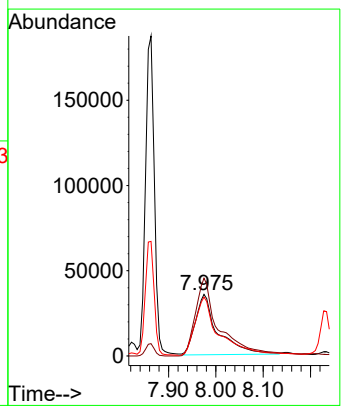


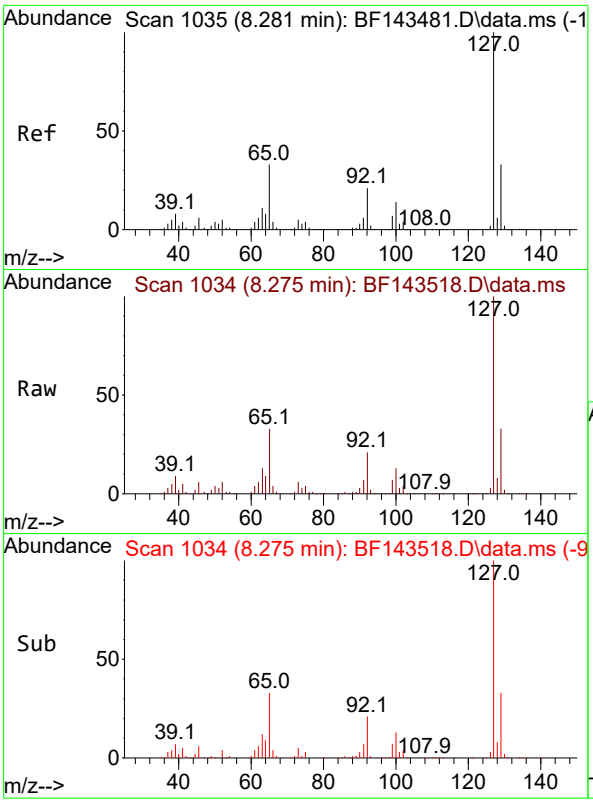


#32
Benzoic acid
Concen: 35.717 ng
RT: 7.975 min Scan# 983
Delta R.T. -0.035 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Tgt Ion:122 Resp: 117106

Ion	Ratio	Lower	Upper
122	100		
105	126.4	104.7	144.7
77	95.8	77.3	117.3



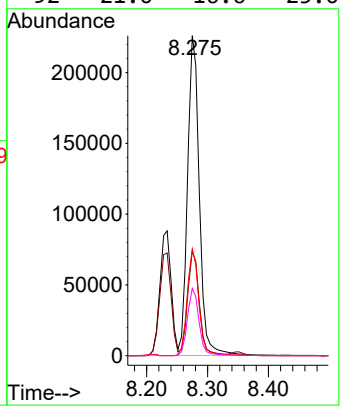


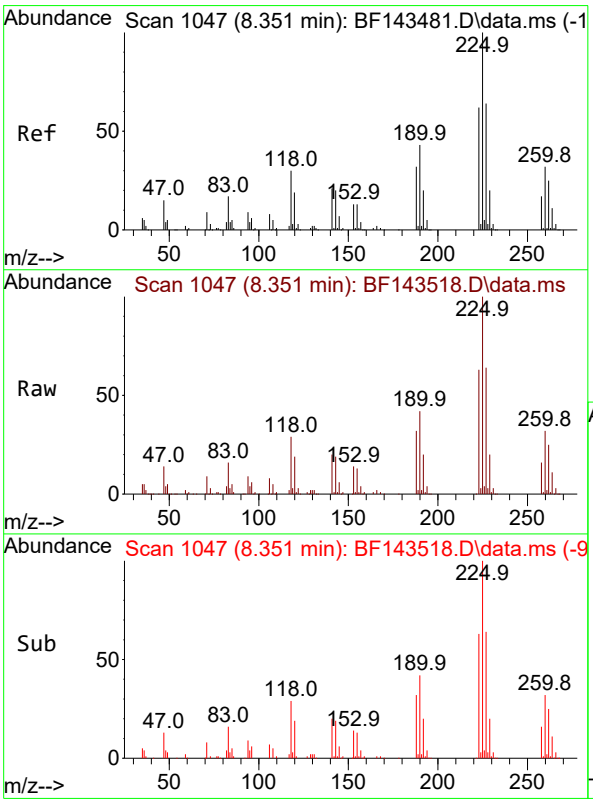
#33
4-Chloroaniline
Concen: 39.804 ng
RT: 8.275 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:127 Resp: 304385

Ion	Ratio	Lower	Upper
127	100		
129	32.6	26.1	39.1
65	33.4	26.2	39.2
92	21.0	16.6	25.0

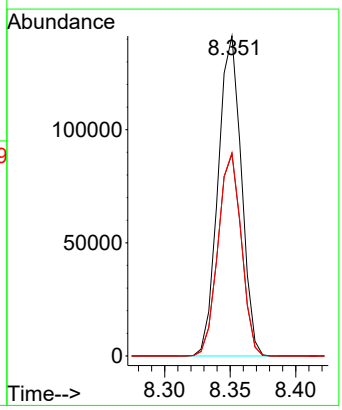


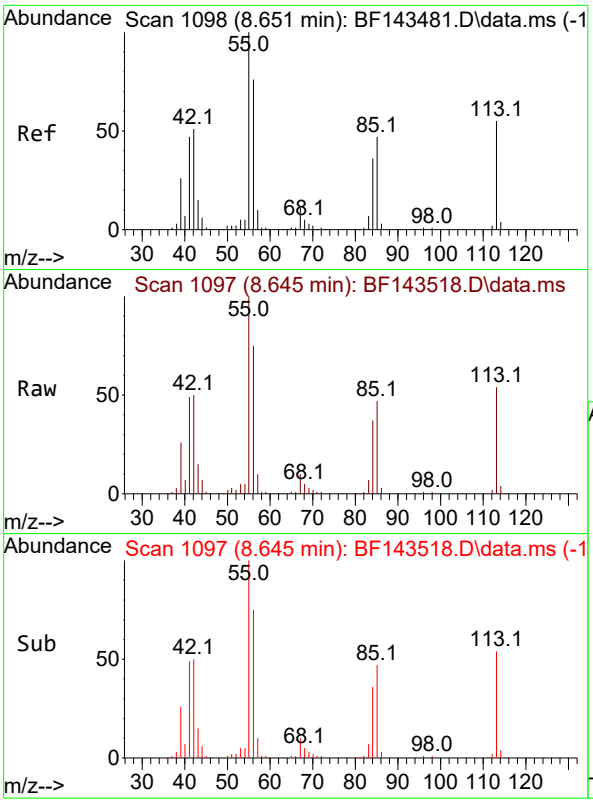


#34
Hexachlorobutadiene
Concen: 40.194 ng
RT: 8.351 min Scan# 1047
Delta R.T. 0.000 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Tgt Ion:225 Resp: 174035

Ion	Ratio	Lower	Upper
225	100		
223	63.0	49.9	74.9
227	63.6	50.9	76.3



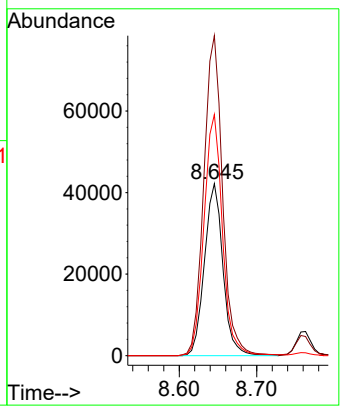


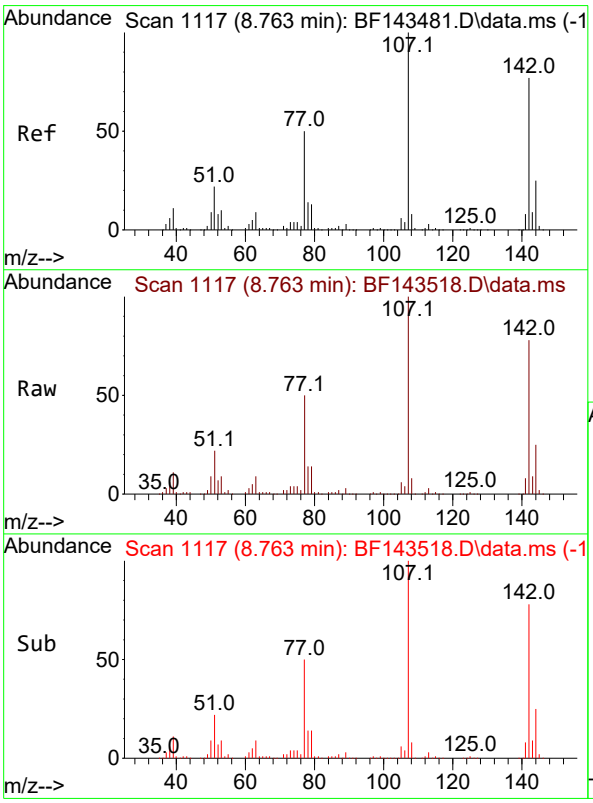
#35
Caprolactam
Concen: 45.135 ng
RT: 8.645 min Scan# 1
Delta R.T. -0.029 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:113 Resp: 69912

Ion	Ratio	Lower	Upper
113	100		
55	186.1	162.8	202.8
56	140.2	118.1	158.1

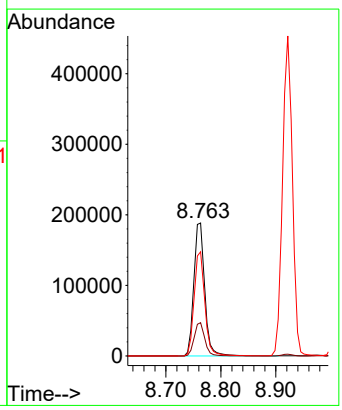


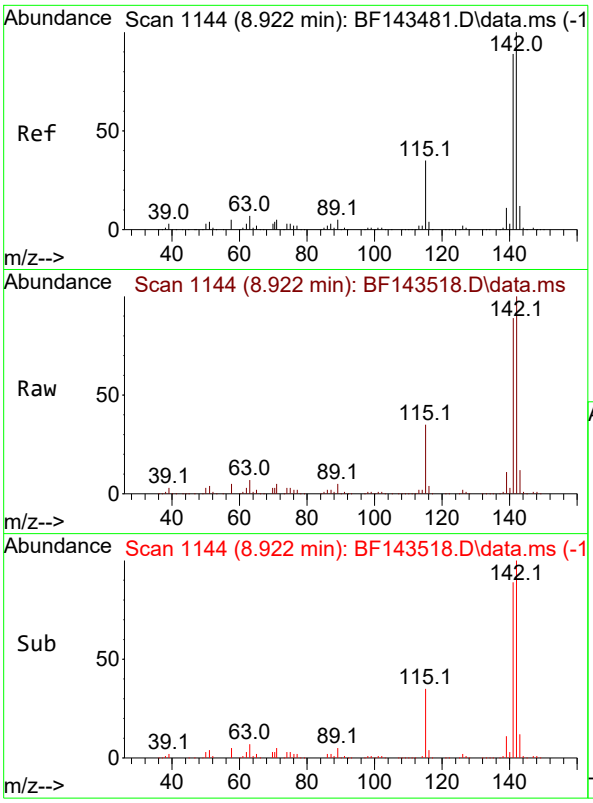


#36
4-Chloro-3-methylphenol
Concen: 40.144 ng
RT: 8.763 min Scan# 1117
Delta R.T. -0.006 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Tgt Ion:107 Resp: 259690

Ion	Ratio	Lower	Upper
107	100		
144	25.1	19.9	29.9
142	78.3	61.8	92.8



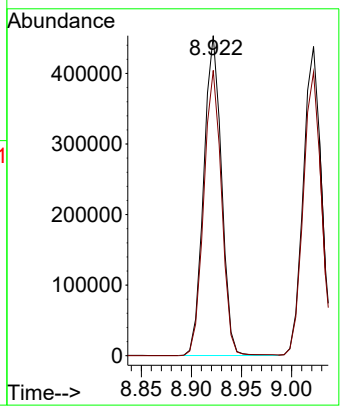


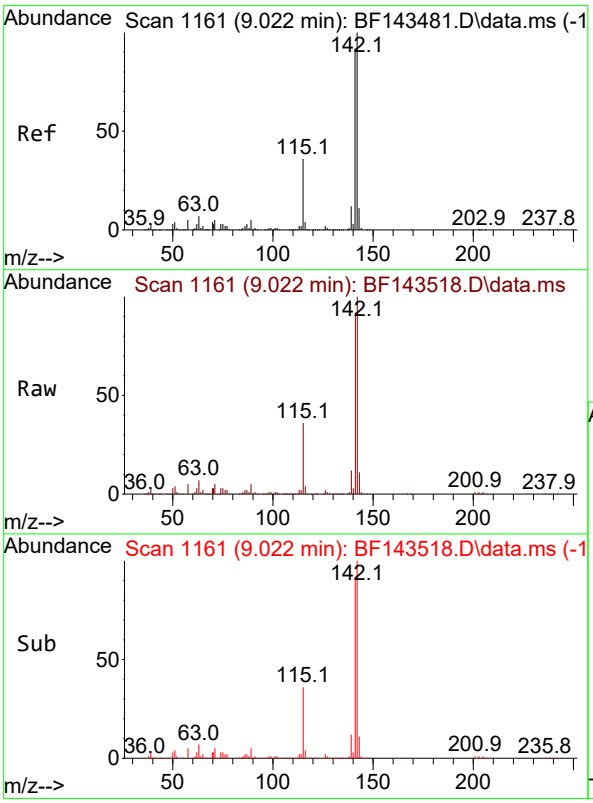
#37
2-Methylnaphthalene
Concen: 39.089 ng
RT: 8.922 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:142 Resp: 562491

Ion	Ratio	Lower	Upper
142	100		
141	89.1	71.0	106.4

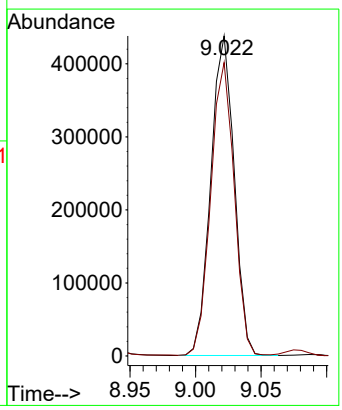


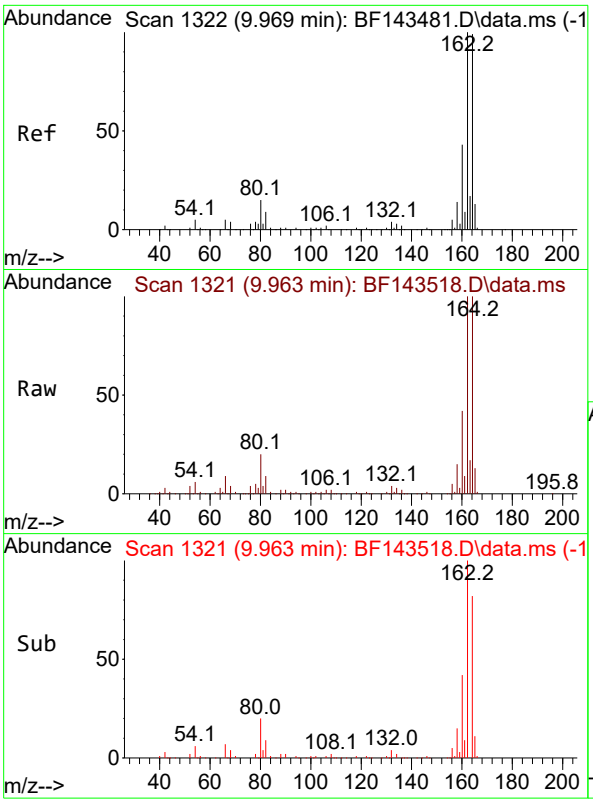


#38
1-Methylnaphthalene
Concen: 39.436 ng
RT: 9.022 min Scan# 1161
Delta R.T. -0.006 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Tgt Ion:142 Resp: 542827

Ion	Ratio	Lower	Upper
142	100		
141	91.7	73.3	109.9



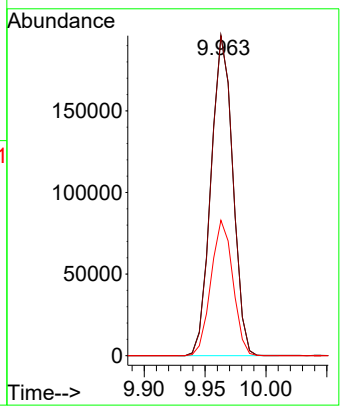


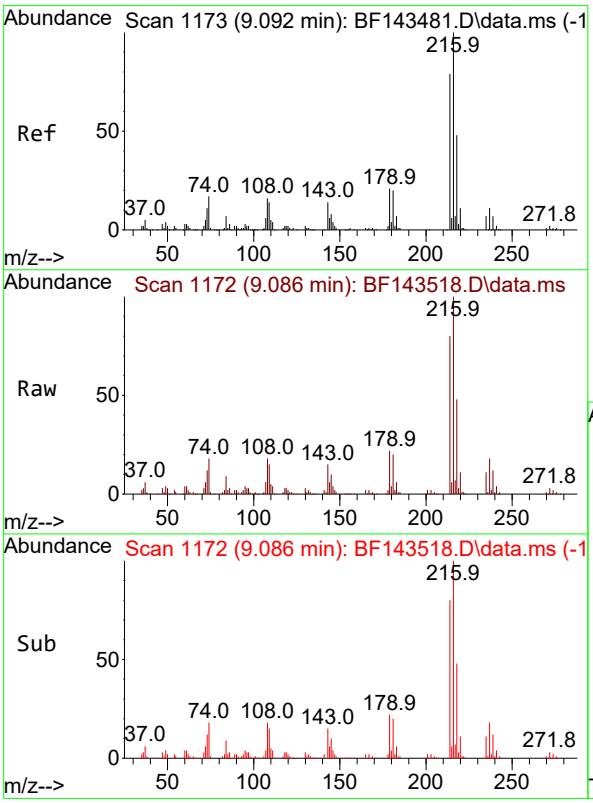
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.963 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:164 Resp: 244595

Ion	Ratio	Lower	Upper
164	100		
162	99.9	80.5	120.7
160	42.3	34.3	51.5

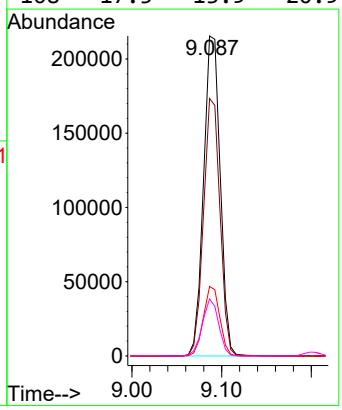


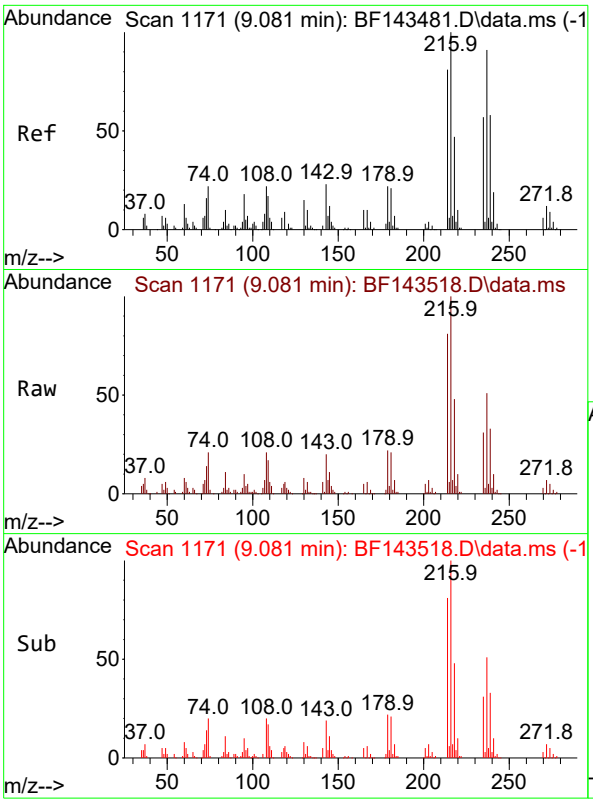


#40
1,2,4,5-Tetrachlorobenzene
Concen: 39.693 ng
RT: 9.086 min Scan# 1172
Delta R.T. -0.006 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Tgt Ion:216 Resp: 277705

Ion	Ratio	Lower	Upper
216	100		
214	79.4	63.4	95.0
179	21.3	16.5	24.7
108	17.5	13.9	20.9



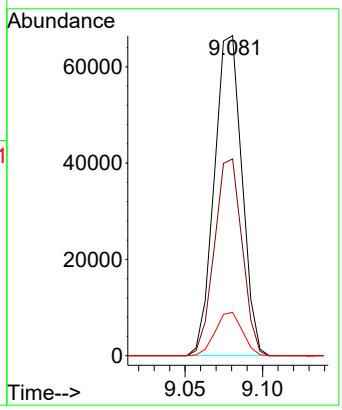


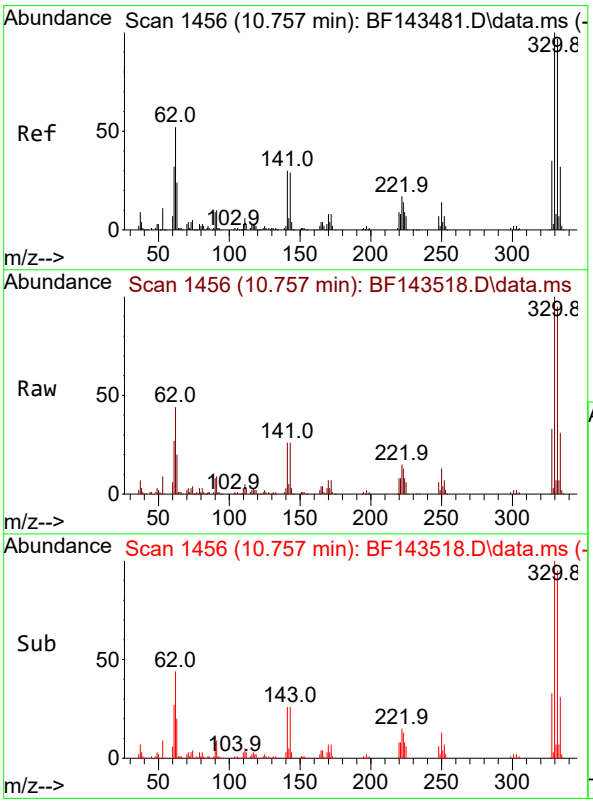
#41
Hexachlorocyclopentadiene
Concen: 34.356 ng
RT: 9.081 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:237 Resp: 82522

Ion	Ratio	Lower	Upper
237	100		
235	61.5	42.6	82.6
272	13.6	0.0	33.4

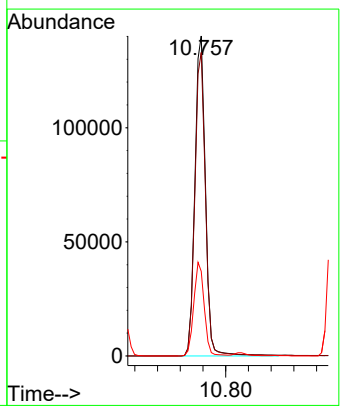


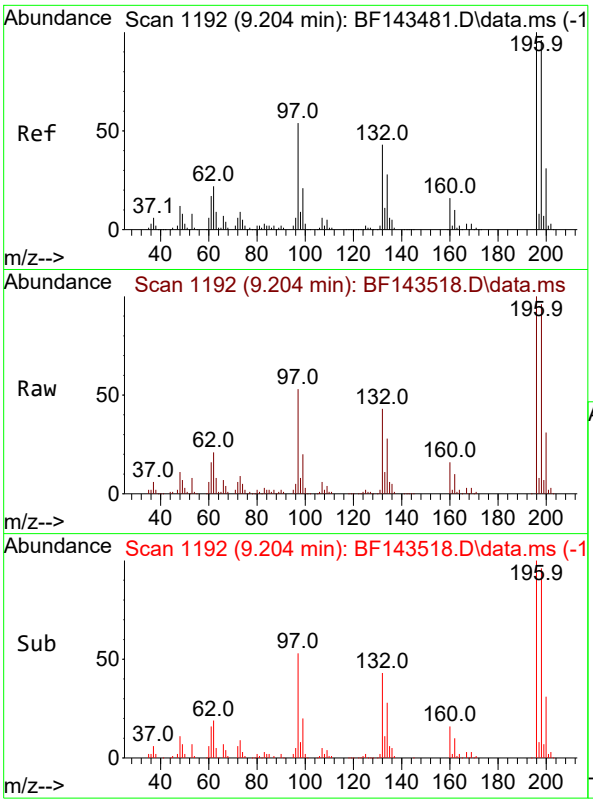


#42
2,4,6-Tribromophenol
Concen: 79.836 ng
RT: 10.757 min Scan# 1456
Delta R.T. -0.006 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Tgt Ion:330 Resp: 181773

Ion	Ratio	Lower	Upper
330	100		
332	96.0	78.0	117.0
141	29.0	23.7	35.5



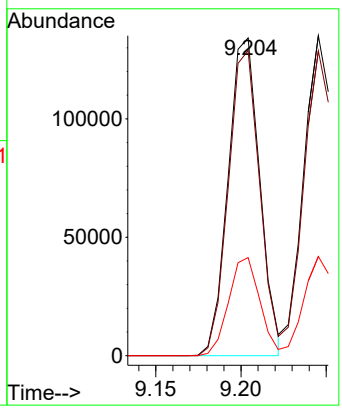


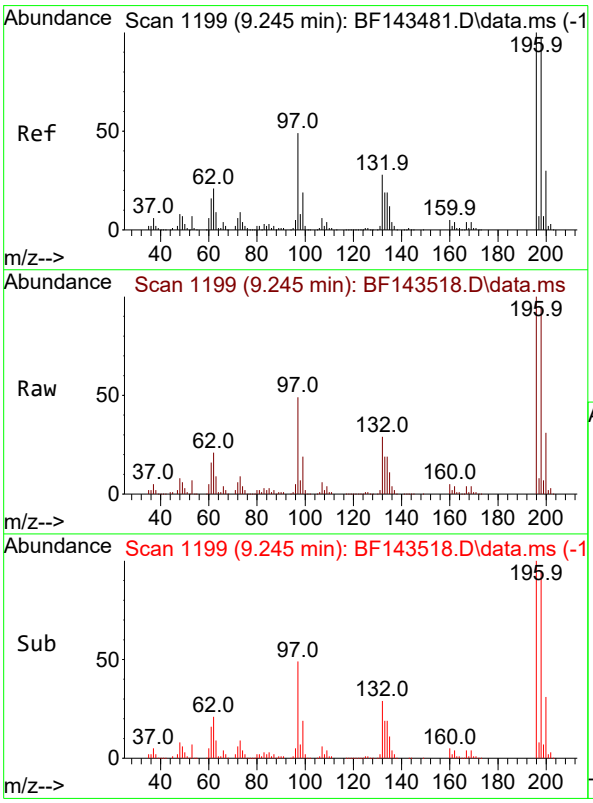
#43
2,4,6-Trichlorophenol
Concen: 40.335 ng
RT: 9.204 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:196 Resp: 173645

Ion	Ratio	Lower	Upper
196	100		
198	96.0	77.0	115.4
200	30.9	24.6	37.0

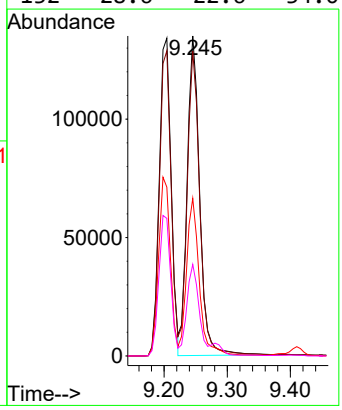


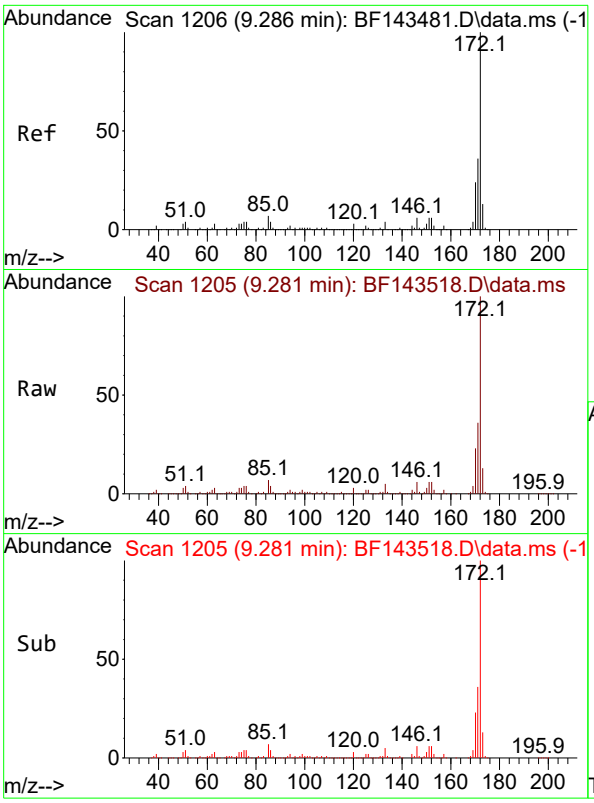


#44
2,4,5-Trichlorophenol
Concen: 39.568 ng
RT: 9.245 min Scan# 1199
Delta R.T. -0.006 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Tgt Ion:196 Resp: 186067

Ion	Ratio	Lower	Upper
196	100		
198	95.3	77.3	115.9
97	49.2	40.0	60.0
132	28.6	22.6	34.0



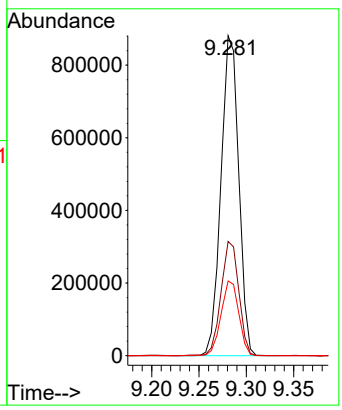


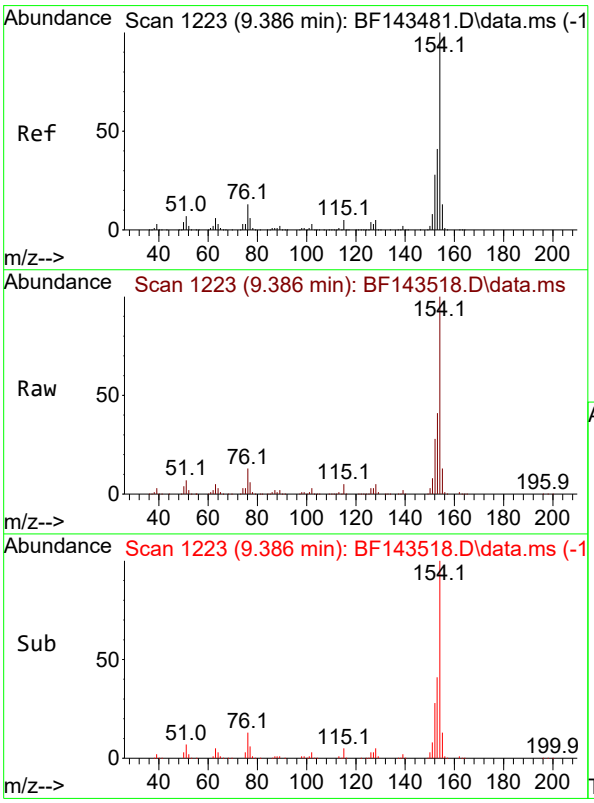
#45
2-Fluorobiphenyl
Concen: 77.819 ng
RT: 9.281 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:172 Resp: 1151723

Ion	Ratio	Lower	Upper
172	100		
171	35.7	28.8	43.2
170	23.4	18.8	28.2

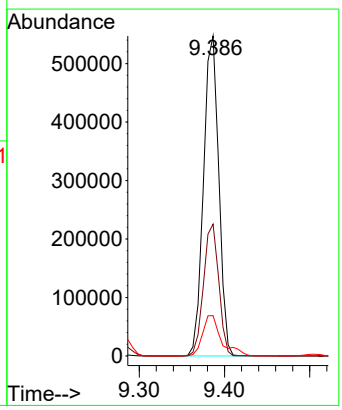


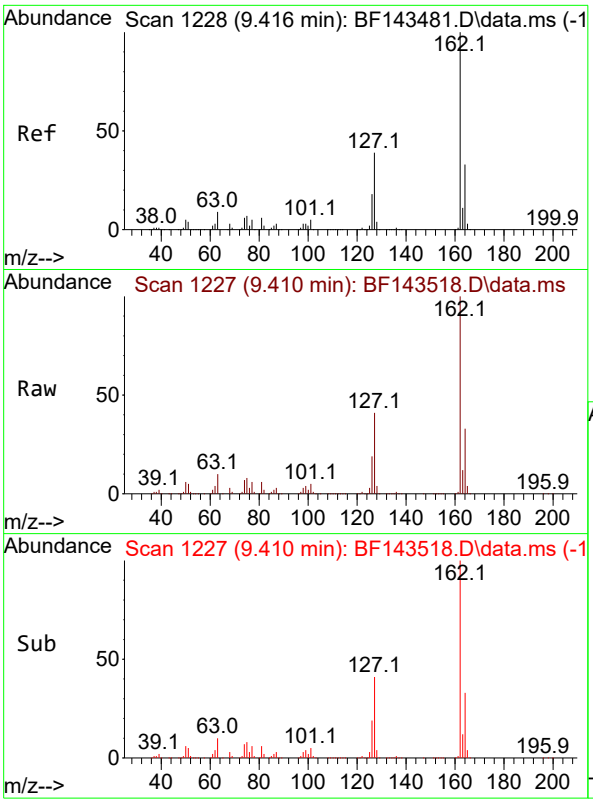


#46
1,1'-Biphenyl
Concen: 39.203 ng
RT: 9.386 min Scan# 1223
Delta R.T. -0.006 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Tgt Ion:154 Resp: 680592

Ion	Ratio	Lower	Upper
154	100		
153	41.2	20.6	60.6
76	12.6	0.0	33.0



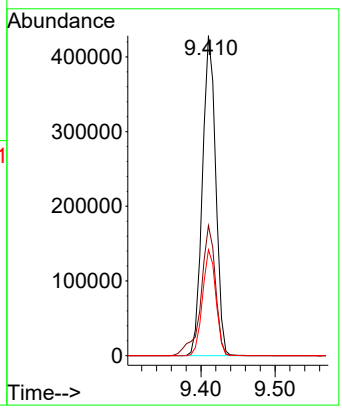


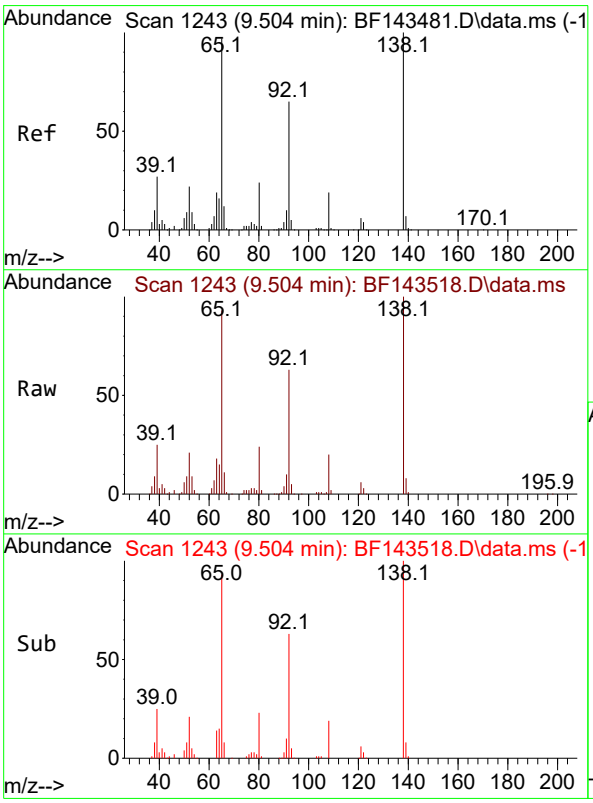
#47
2-Chloronaphthalene
Concen: 39.372 ng
RT: 9.410 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:162 Resp: 536315

Ion	Ratio	Lower	Upper
162	100		
127	40.7	31.8	47.6
164	33.1	26.4	39.6

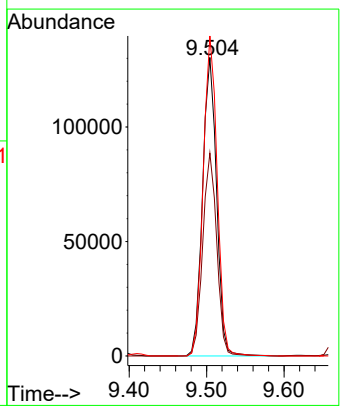


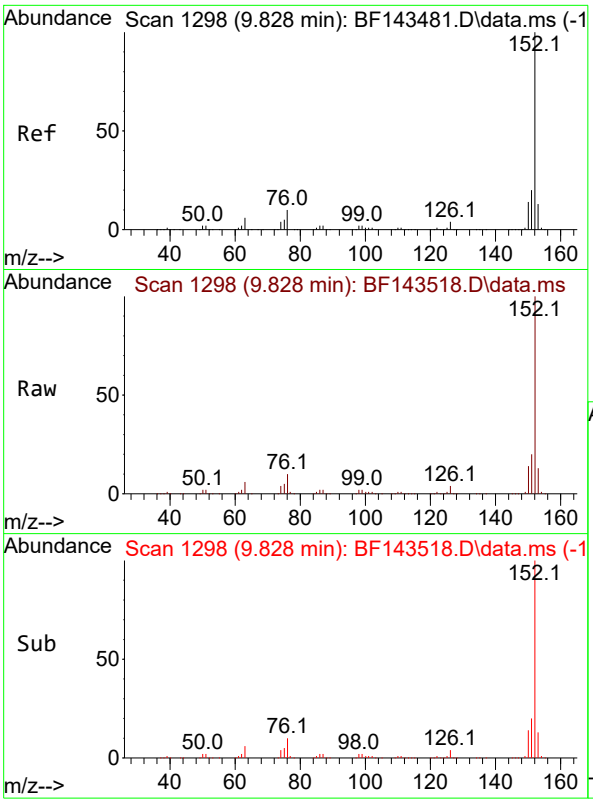


#48
2-Nitroaniline
Concen: 41.078 ng
RT: 9.504 min Scan# 1243
Delta R.T. -0.006 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Tgt Ion: 65 Resp: 163759

Ion	Ratio	Lower	Upper
65	100		
92	67.9	53.8	80.6
138	107.2	82.4	123.6



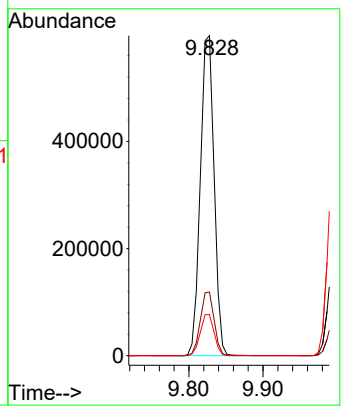


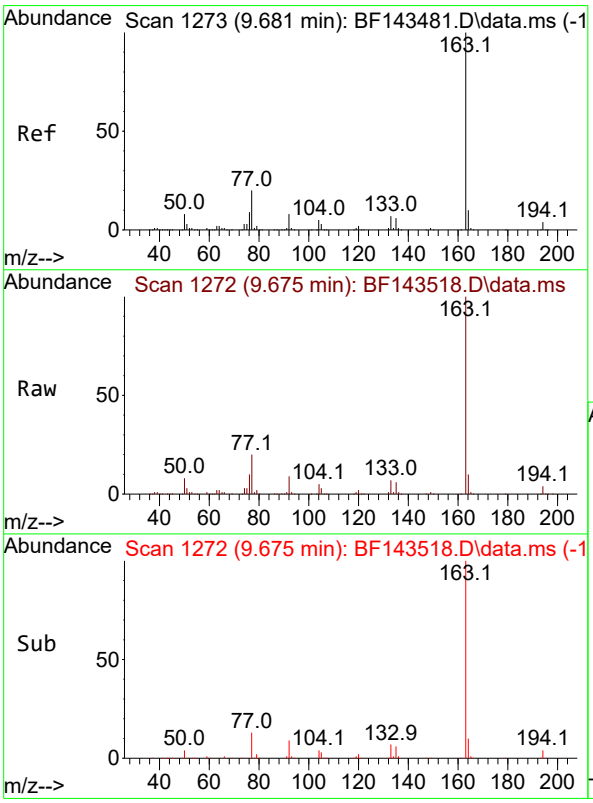
#49
Acenaphthylene
Concen: 39.570 ng
RT: 9.828 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:152 Resp: 771789

Ion	Ratio	Lower	Upper
152	100		
151	19.9	16.2	24.4
153	12.8	10.6	15.8

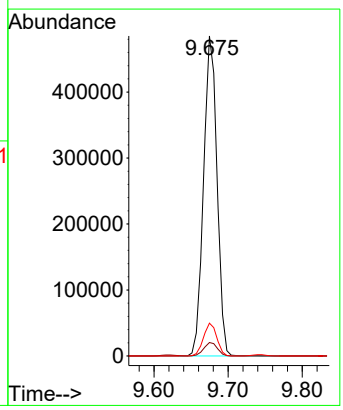


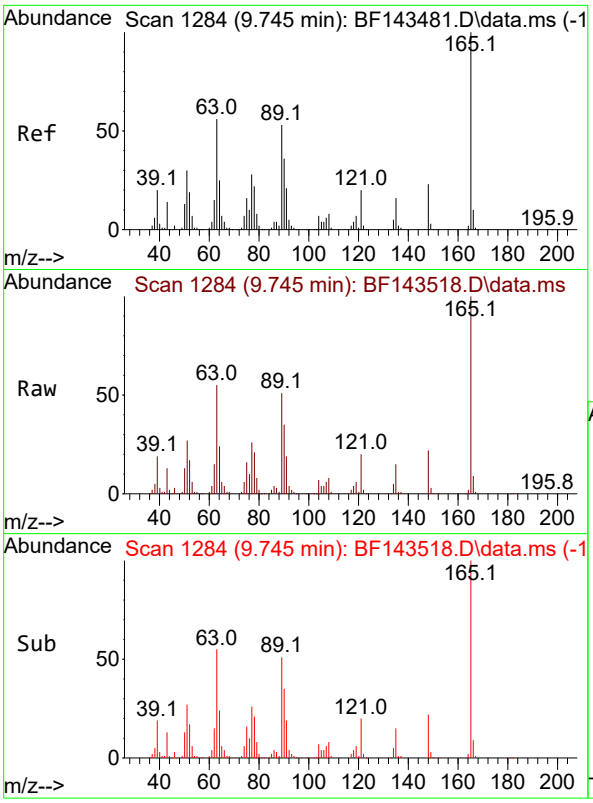


#50
Dimethylphthalate
Concen: 41.504 ng
RT: 9.675 min Scan# 1272
Delta R.T. -0.006 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Tgt Ion:163 Resp: 611411

Ion	Ratio	Lower	Upper
163	100		
194	4.2	3.4	5.0
164	10.3	8.2	12.2



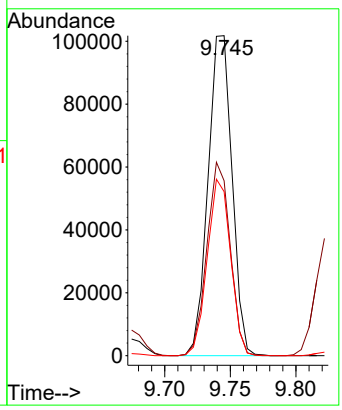


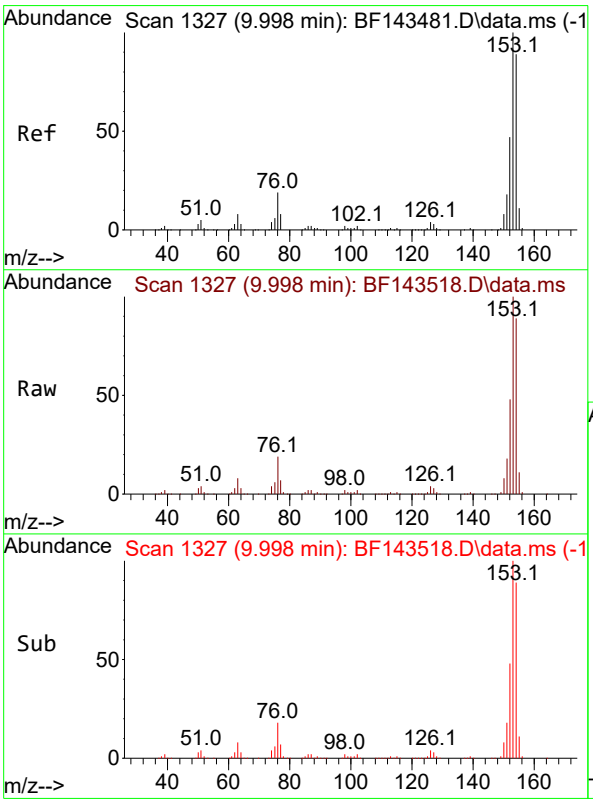
#51
2,6-Dinitrotoluene
Concen: 42.495 ng
RT: 9.745 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:165 Resp: 129744

Ion	Ratio	Lower	Upper
165	100		
63	54.6	45.0	67.6
89	51.3	42.5	63.7

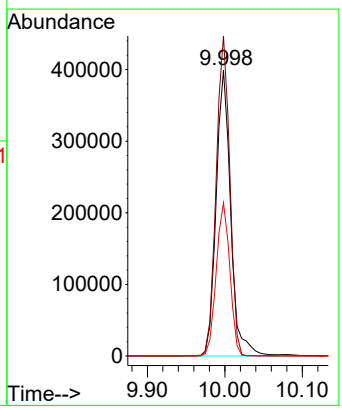


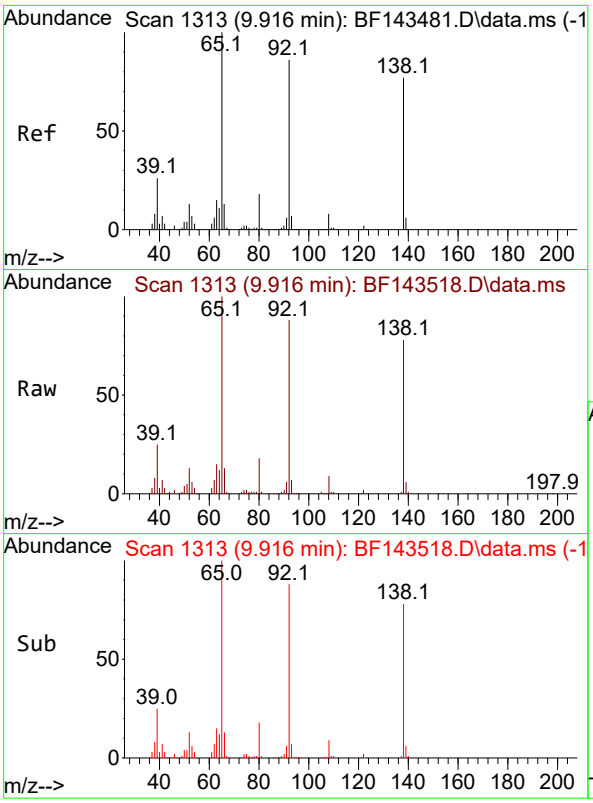


#52
Acenaphthene
Concen: 39.417 ng
RT: 9.998 min Scan# 1327
Delta R.T. -0.006 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Tgt Ion:154 Resp: 521988

Ion	Ratio	Lower	Upper
154	100		
153	111.9	89.5	134.3
152	53.5	42.5	63.7



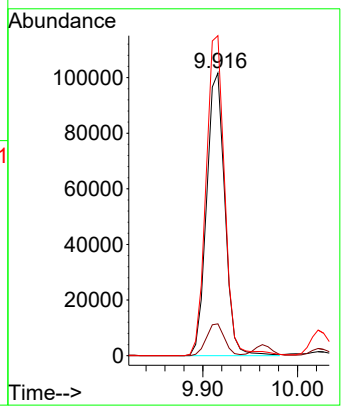


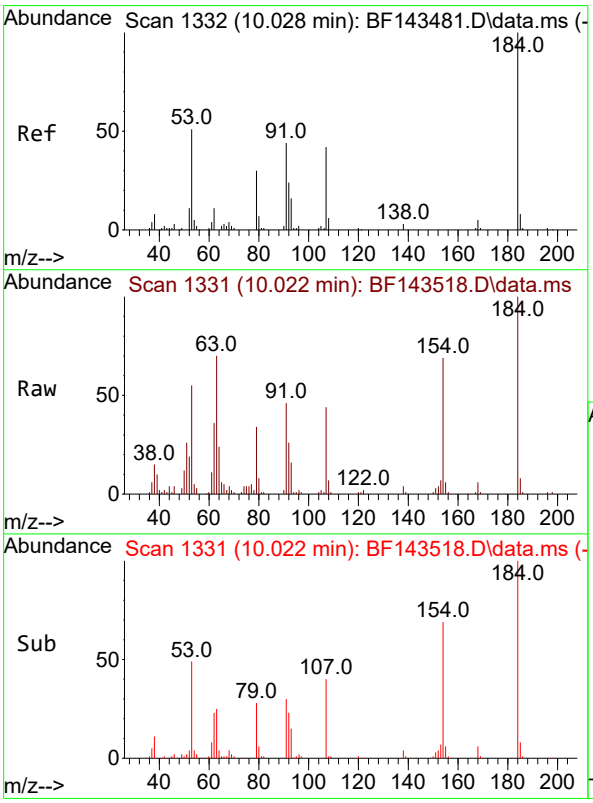
#53
3-Nitroaniline
Concen: 41.155 ng
RT: 9.916 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:138 Resp: 135772

Ion	Ratio	Lower	Upper
138	100		
108	11.3	8.6	13.0
92	113.2	89.8	134.8

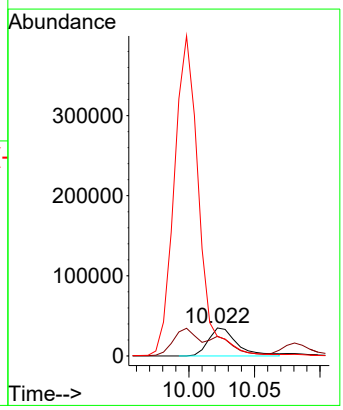


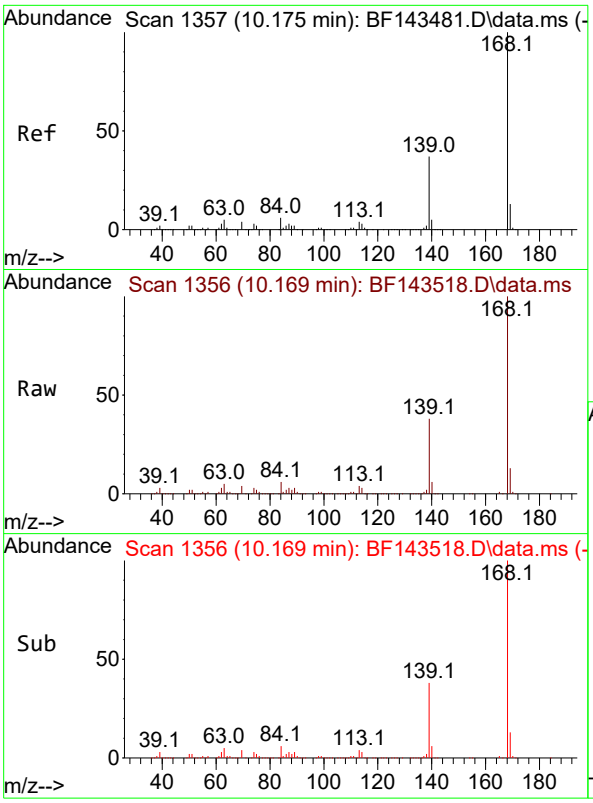


#54
2,4-Dinitrophenol
Concen: 35.824 ng
RT: 10.022 min Scan# 1331
Delta R.T. -0.006 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Tgt Ion:184 Resp: 53382

Ion	Ratio	Lower	Upper
184	100		
63	70.3	52.6	78.8
154	69.5	51.0	76.4



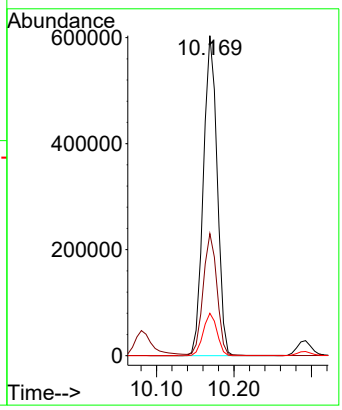


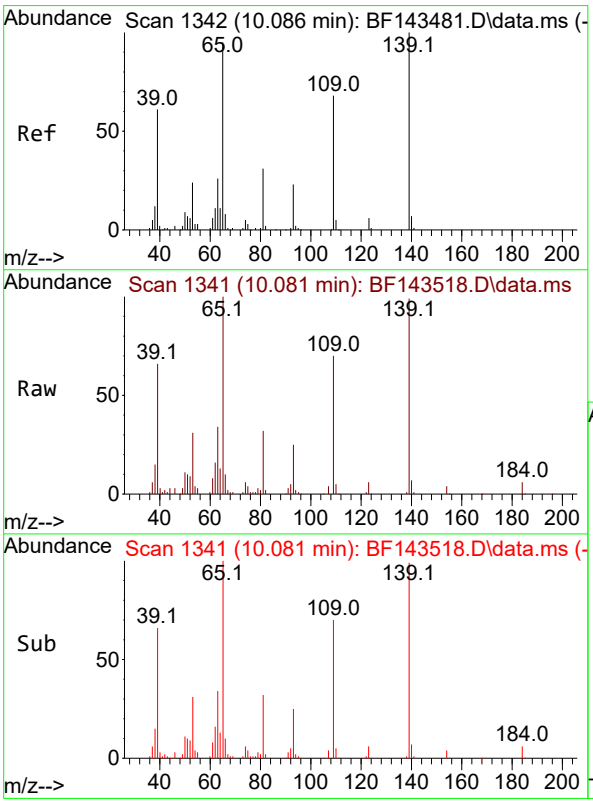
#55
Dibenzofuran
Concen: 39.509 ng
RT: 10.169 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:168 Resp: 745949

Ion	Ratio	Lower	Upper
168	100		
139	38.2	29.8	44.6
169	13.2	10.8	16.2

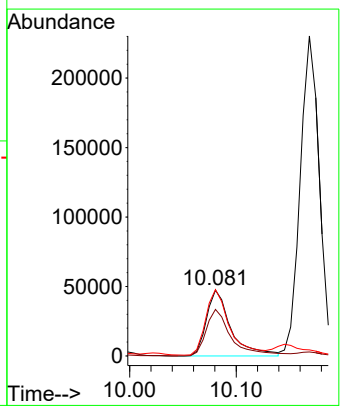


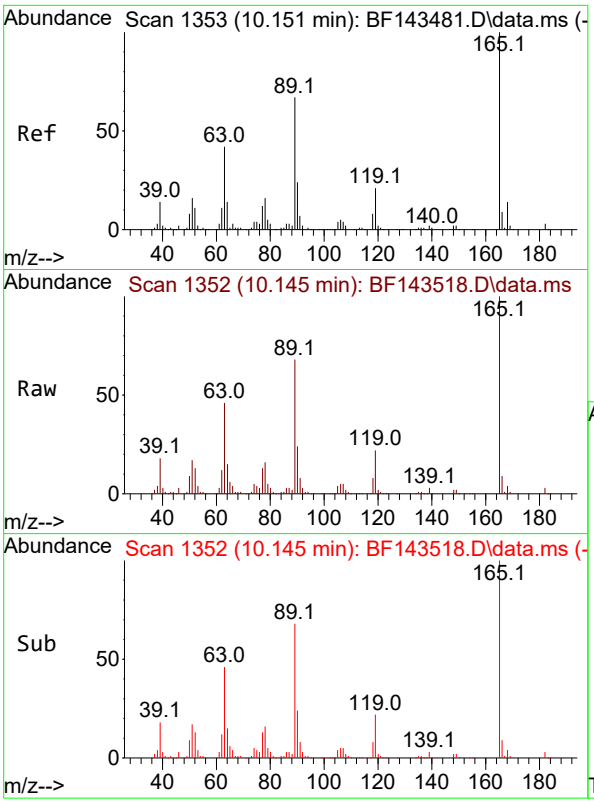


#56
4-Nitrophenol
Concen: 38.513 ng
RT: 10.081 min Scan# 1341
Delta R.T. -0.005 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Tgt Ion:139 Resp: 75600

Ion	Ratio	Lower	Upper
139	100		
109	70.9	48.2	88.2
65	101.2	75.8	115.8



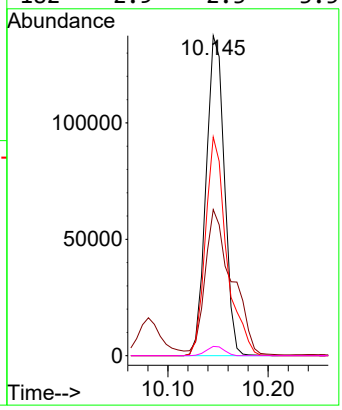


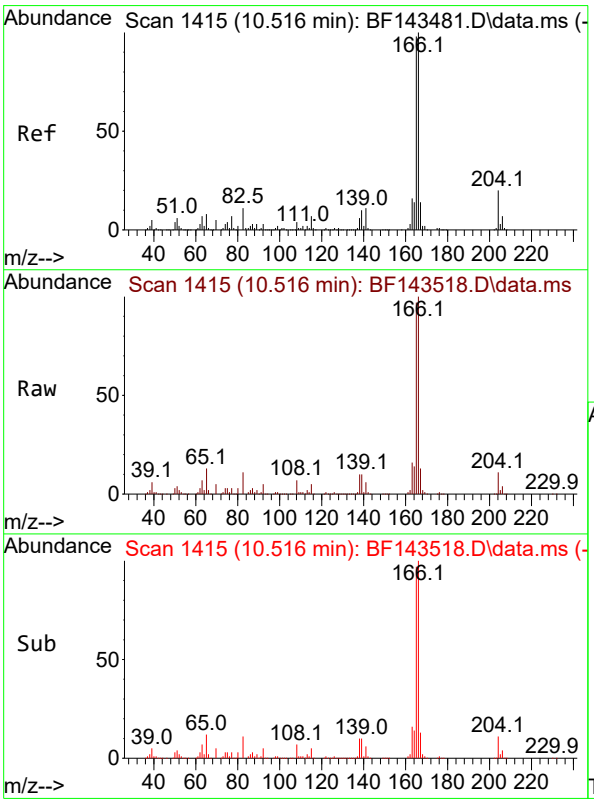
#57
2,4-Dinitrotoluene
Concen: 42.812 ng
RT: 10.145 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:165 Resp: 174534

Ion	Ratio	Lower	Upper
165	100		
63	45.7	34.9	52.3
89	68.4	53.3	79.9
182	2.9	2.3	3.5

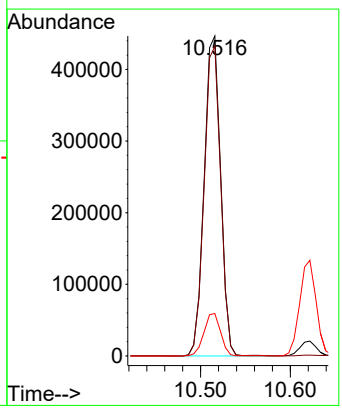


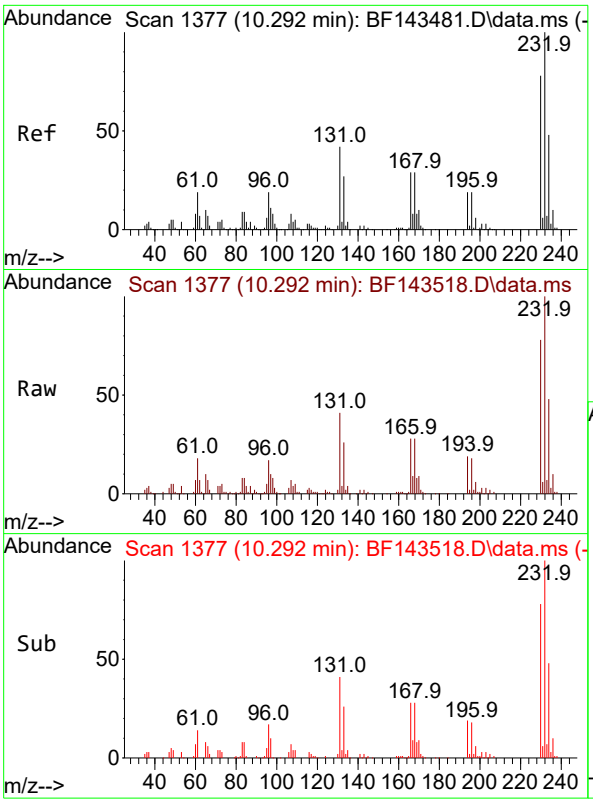


#58
Fluorene
Concen: 39.184 ng
RT: 10.516 min Scan# 1415
Delta R.T. -0.006 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Tgt Ion:166 Resp: 569387

Ion	Ratio	Lower	Upper
166	100		
165	96.8	78.3	117.5
167	13.2	11.0	16.4



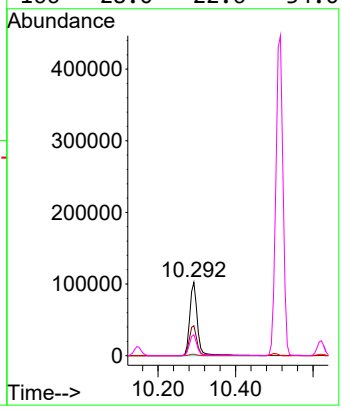


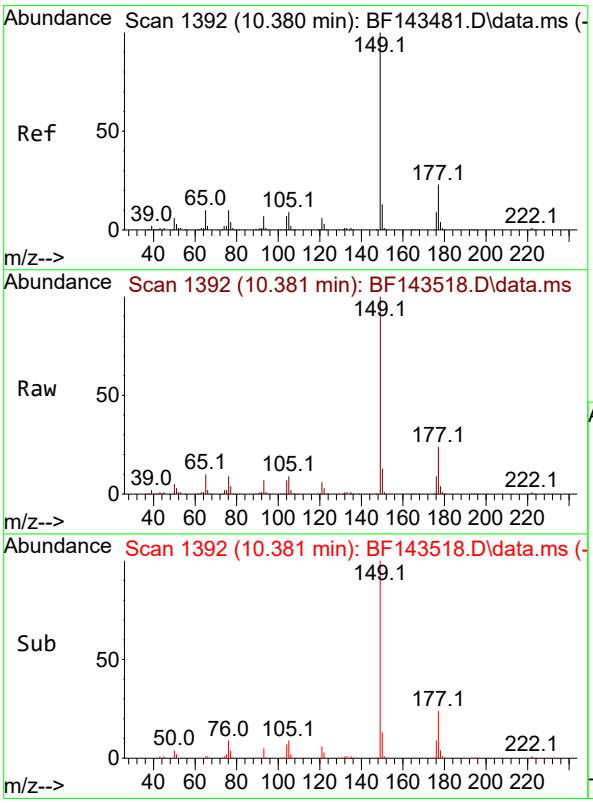
#59
2,3,4,6-Tetrachlorophenol
Concen: 40.463 ng
RT: 10.292 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:232 Resp: 141362

Ion	Ratio	Lower	Upper
232	100		
131	40.6	32.7	49.1
130	2.0	1.6	2.4
166	28.0	22.6	34.0

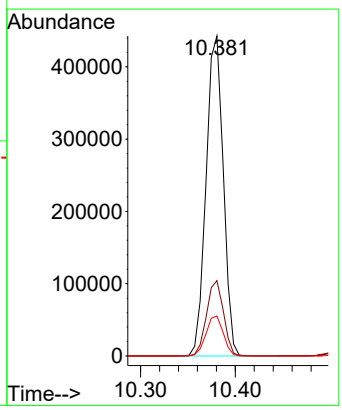


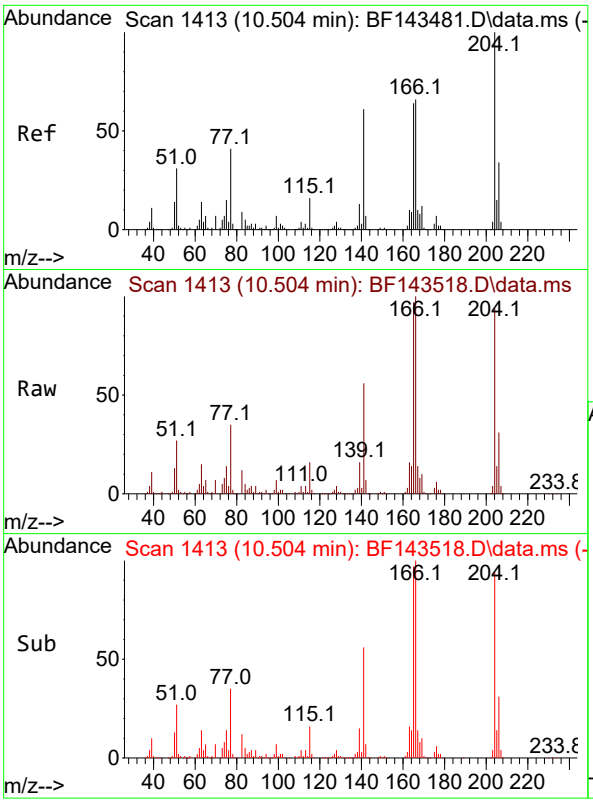


#60
Diethylphthalate
Concen: 42.212 ng
RT: 10.381 min Scan# 1392
Delta R.T. -0.006 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Tgt Ion:149 Resp: 557513

Ion	Ratio	Lower	Upper
149	100		
177	23.5	18.3	27.5
150	12.5	10.3	15.5



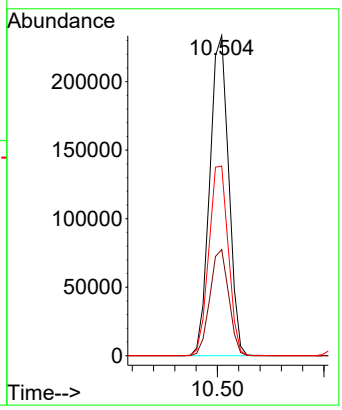


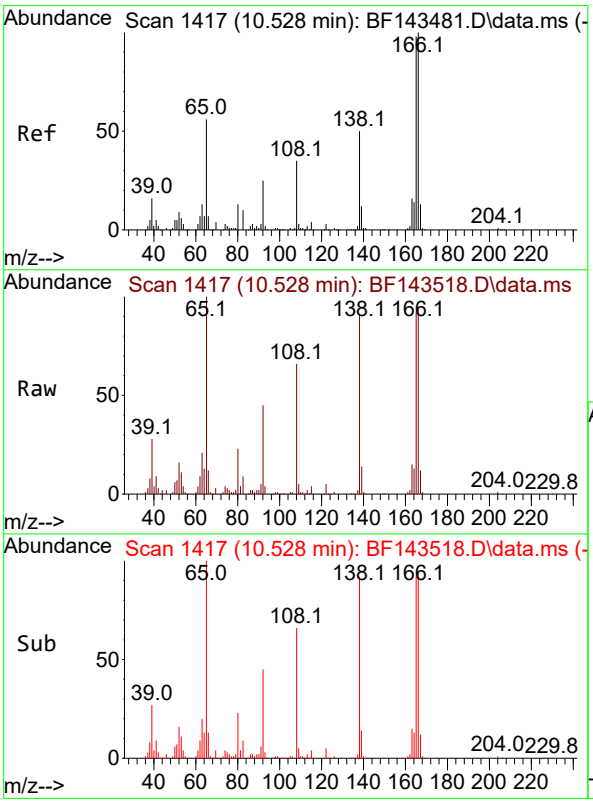
#61
4-Chlorophenyl-phenylether
Concen: 39.680 ng
RT: 10.504 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:204 Resp: 288368

Ion	Ratio	Lower	Upper
204	100		
206	33.1	27.0	40.4
141	59.3	48.7	73.1

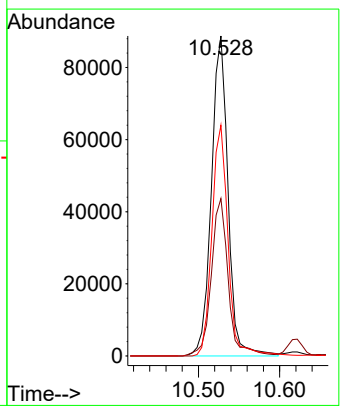


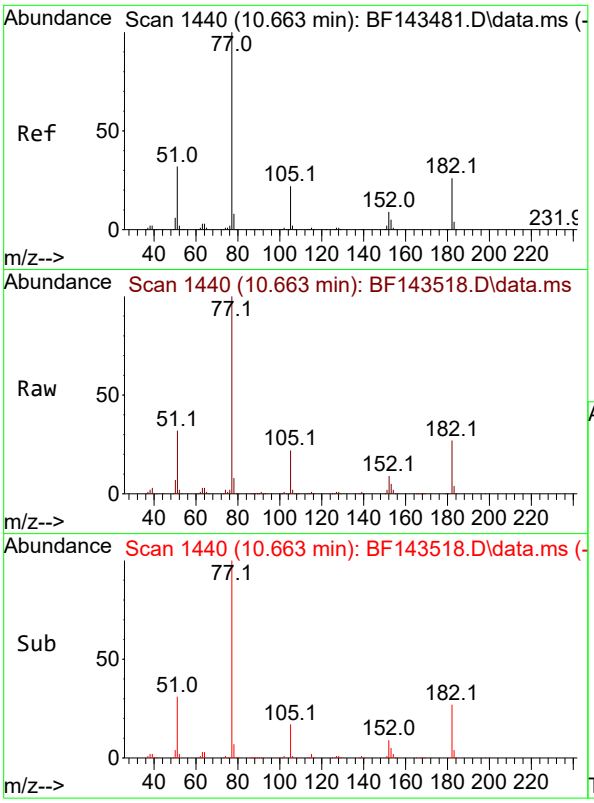


#62
4-Nitroaniline
Concen: 41.677 ng
RT: 10.528 min Scan# 1417
Delta R.T. -0.012 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Tgt Ion:138 Resp: 126293

Ion	Ratio	Lower	Upper
138	100		
92	49.2	29.3	69.3
108	72.1	50.7	90.7



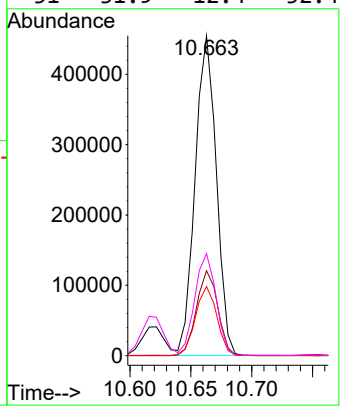


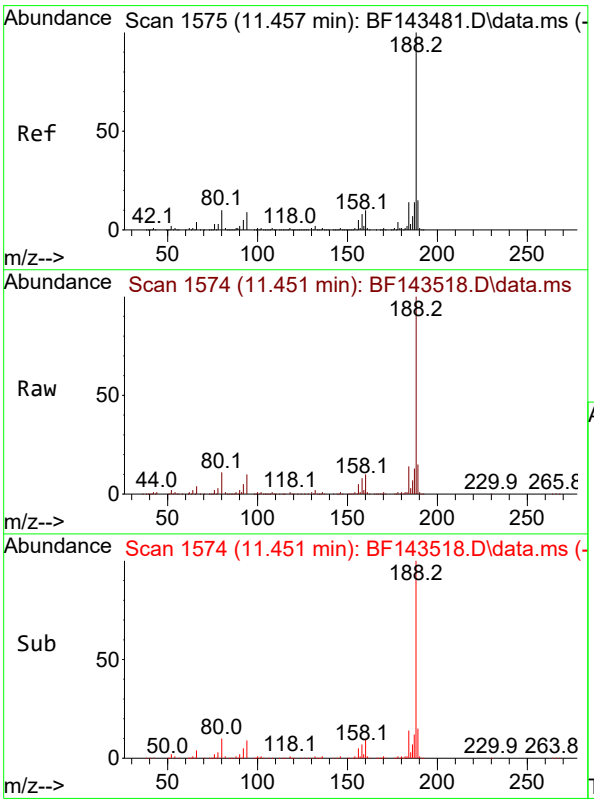
#63
Azobenzene
Concen: 40.129 ng
RT: 10.663 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 77 Resp: 549552

Ion	Ratio	Lower	Upper
77	100		
182	26.6	6.2	46.2
105	21.6	2.2	42.2
51	31.9	12.4	52.4

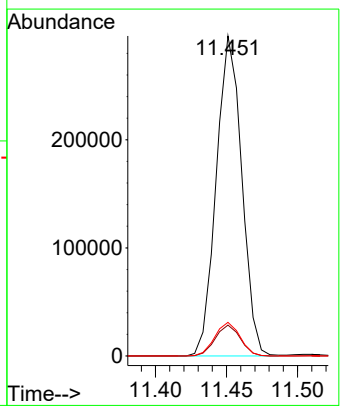


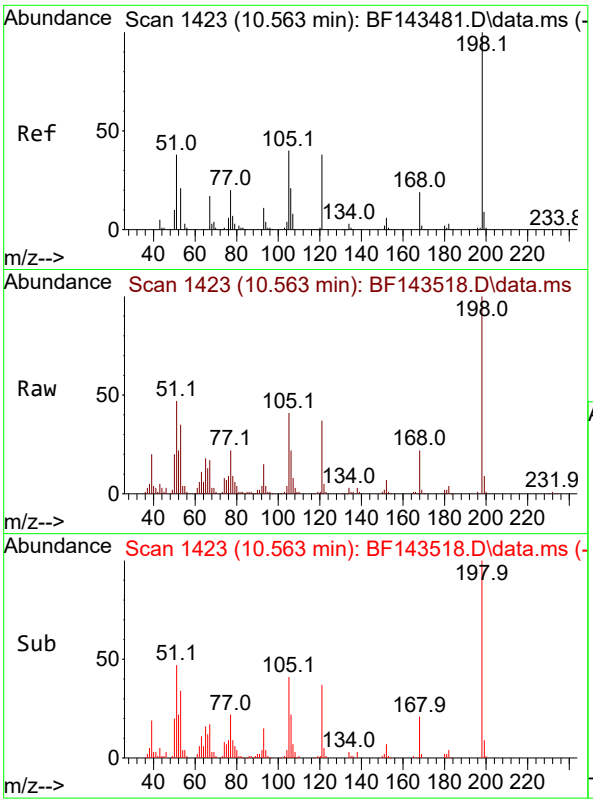


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.451 min Scan# 1574
Delta R.T. -0.006 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Tgt Ion:188 Resp: 369706

Ion	Ratio	Lower	Upper
188	100		
94	9.6	7.4	11.2
80	10.5	8.2	12.4



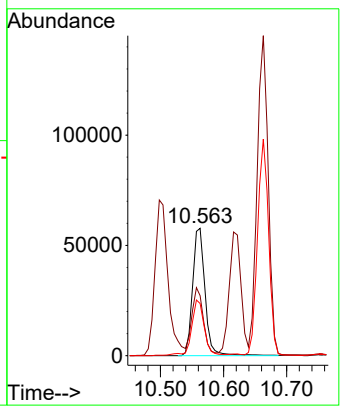


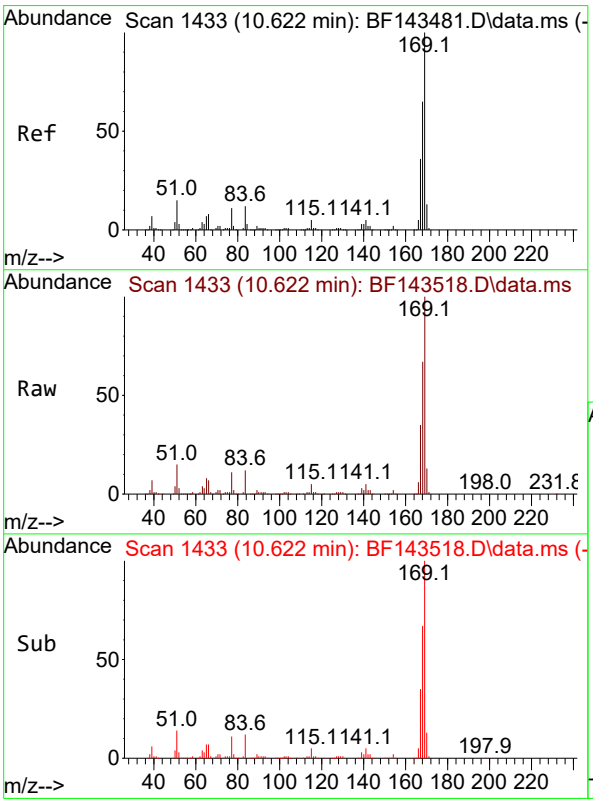
#65
4,6-Dinitro-2-methylphenol
Concen: 37.928 ng
RT: 10.563 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:198 Resp: 79062

Ion	Ratio	Lower	Upper
198	100		
51	47.1	29.6	69.6
105	41.0	21.5	61.5

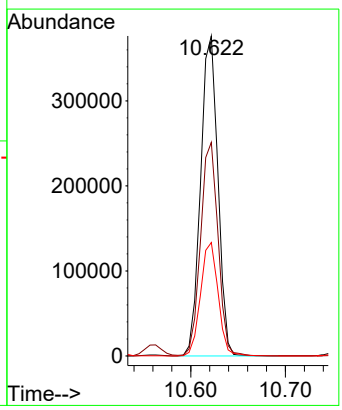


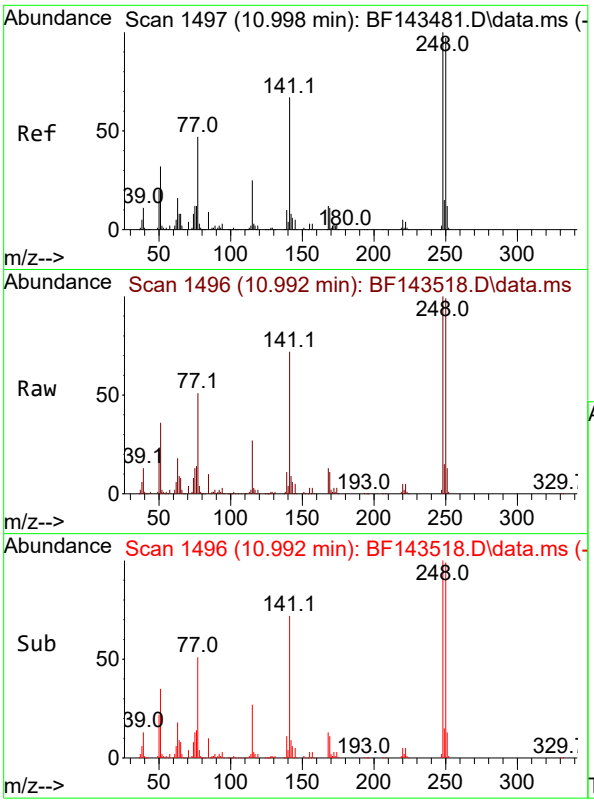


#66
n-Nitrosodiphenylamine
Concen: 40.110 ng
RT: 10.622 min Scan# 1433
Delta R.T. -0.006 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Tgt Ion:169 Resp: 477218

Ion	Ratio	Lower	Upper
169	100		
168	66.8	52.4	78.6
167	35.5	28.9	43.3



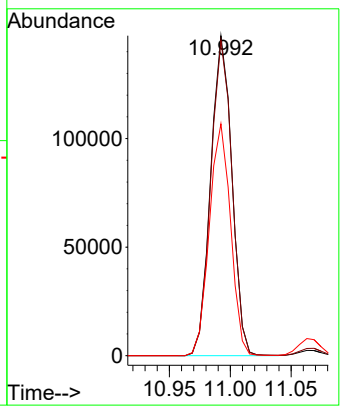


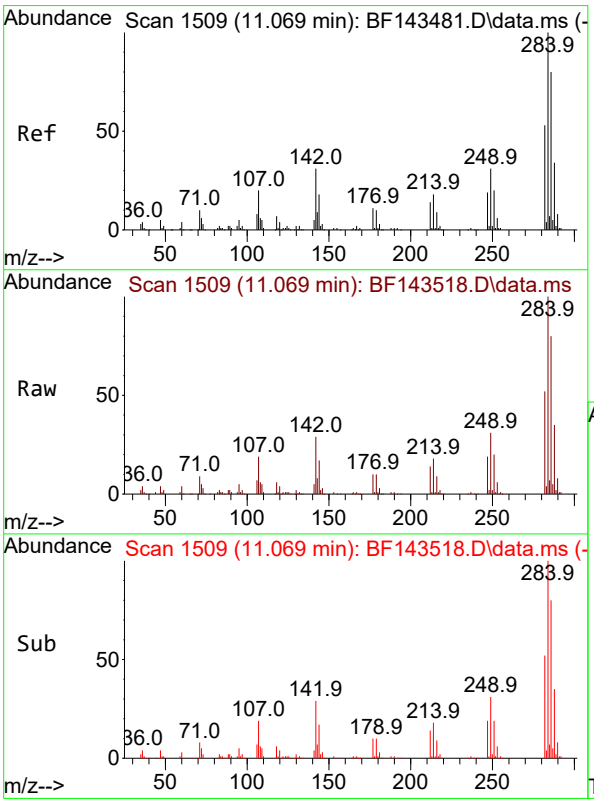
#67
4-Bromophenyl-phenylether
Concen: 40.542 ng
RT: 10.992 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:248 Resp: 178840

Ion	Ratio	Lower	Upper
248	100		
250	98.5	77.8	116.8
141	72.4	54.0	81.0

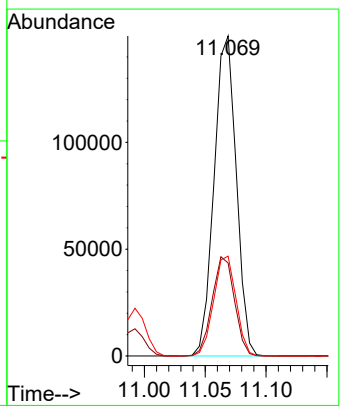


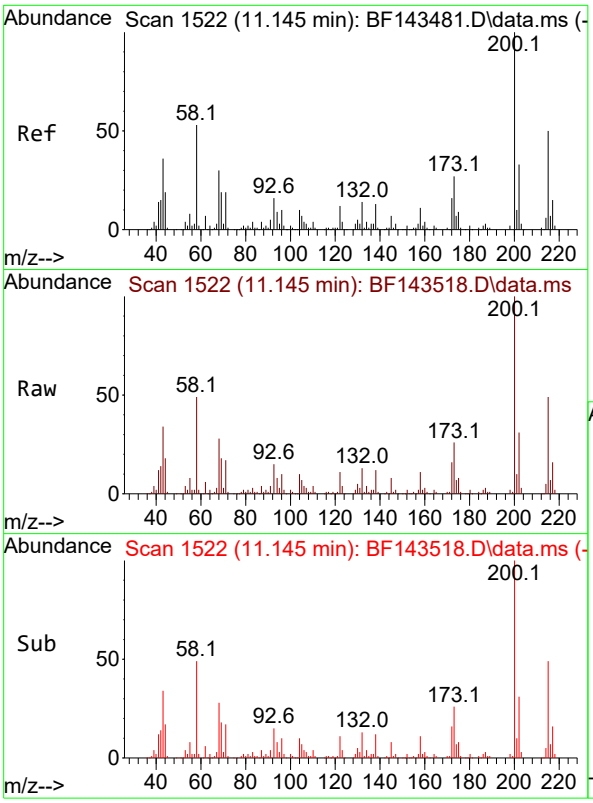


#68
Hexachlorobenzene
Concen: 39.979 ng
RT: 11.069 min Scan# 1509
Delta R.T. -0.006 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Tgt Ion:284 Resp: 190099

Ion	Ratio	Lower	Upper
284	100		
142	29.0	24.4	36.6
249	31.2	25.0	37.6



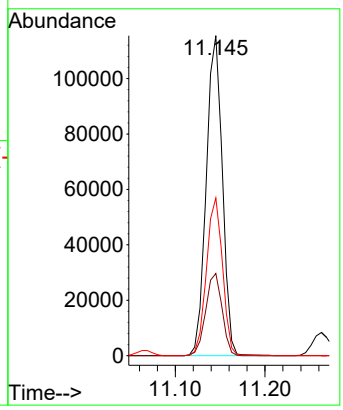


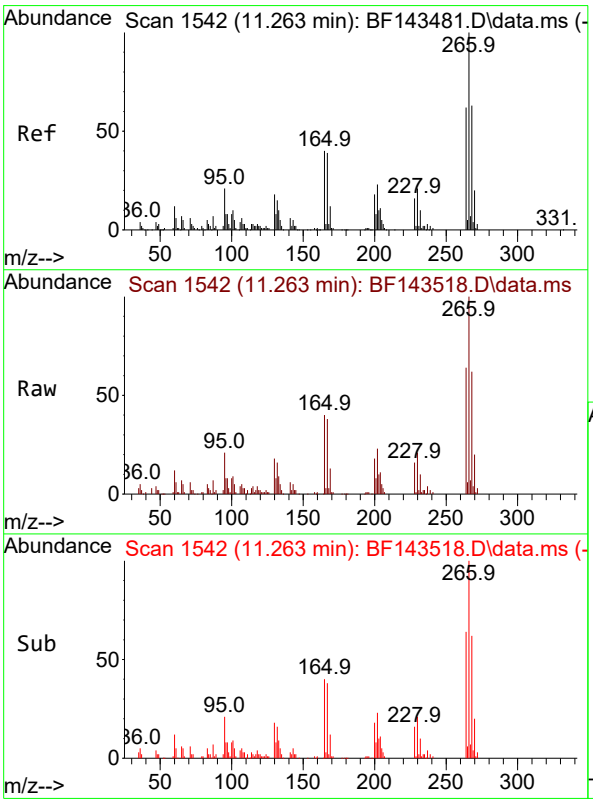
#69
Atrazine
Concen: 46.846 ng
RT: 11.145 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:200 Resp: 143876

Ion	Ratio	Lower	Upper
200	100		
173	25.7	6.9	46.9
215	49.3	30.0	70.0

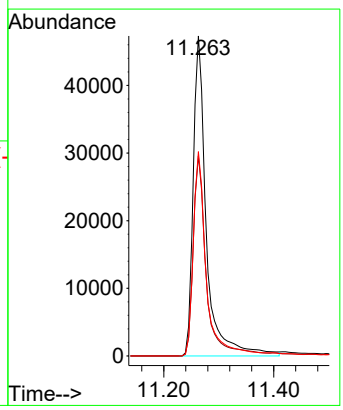


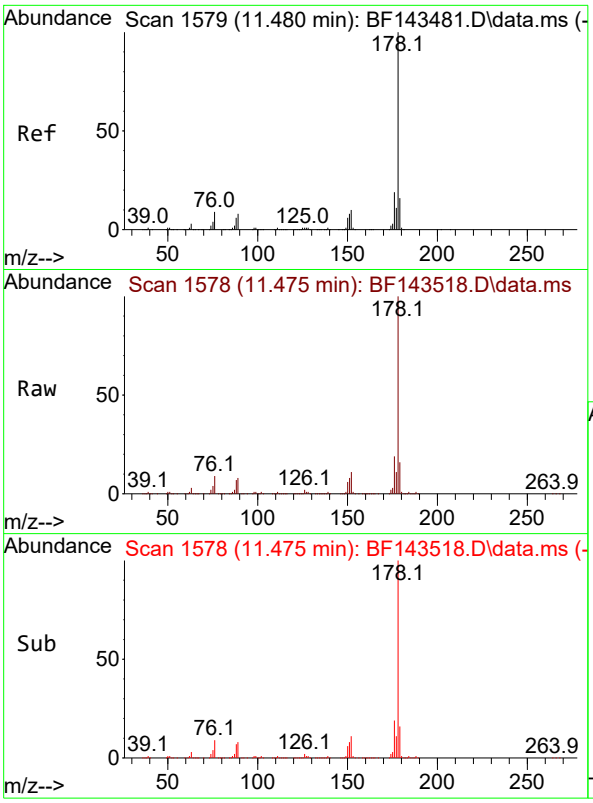


#70
Pentachlorophenol
Concen: 36.133 ng
RT: 11.263 min Scan# 1542
Delta R.T. -0.006 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Tgt Ion:266 Resp: 78686

Ion	Ratio	Lower	Upper
266	100		
268	62.5	50.5	75.7
264	63.8	49.8	74.8



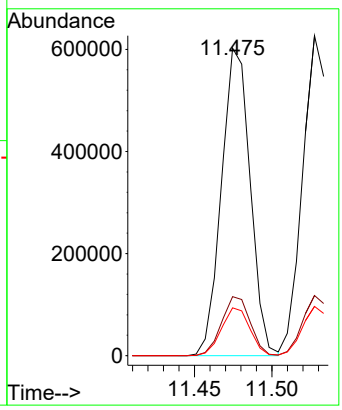


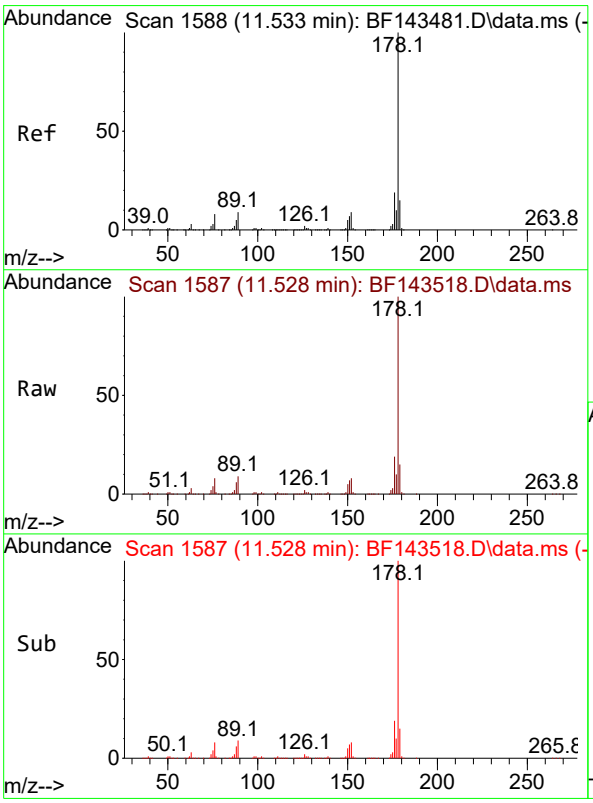
#71
Phenanthrene
Concen: 39.294 ng
RT: 11.475 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:178 Resp: 777957

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.5	23.3
179	15.5	12.5	18.7

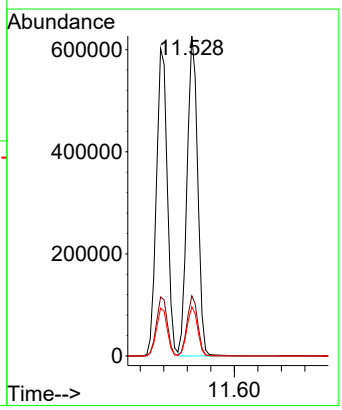


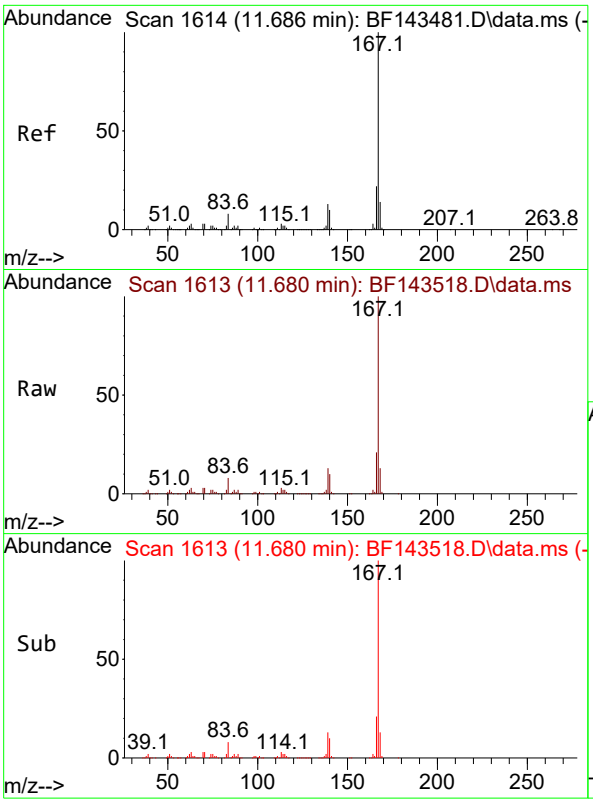


#72
Anthracene
Concen: 39.255 ng
RT: 11.528 min Scan# 1587
Delta R.T. -0.006 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Tgt Ion:178 Resp: 787324

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.0	22.4
179	15.4	12.3	18.5



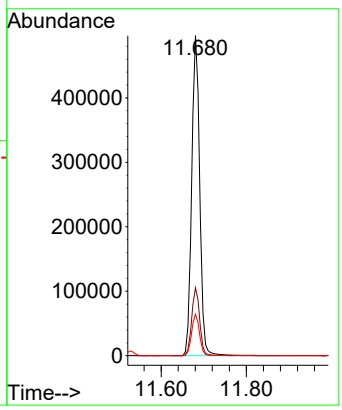


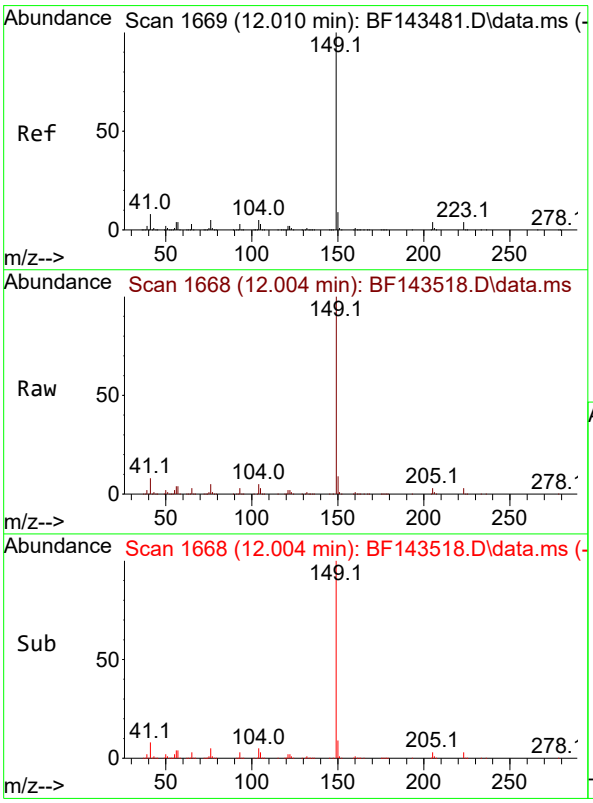
#73
Carbazole
Concen: 39.380 ng
RT: 11.680 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:167 Resp: 647183

Ion	Ratio	Lower	Upper
167	100		
166	21.2	17.3	25.9
139	13.0	10.0	15.0

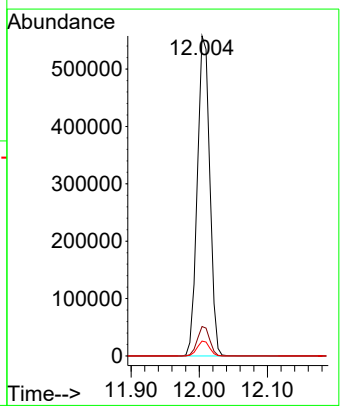


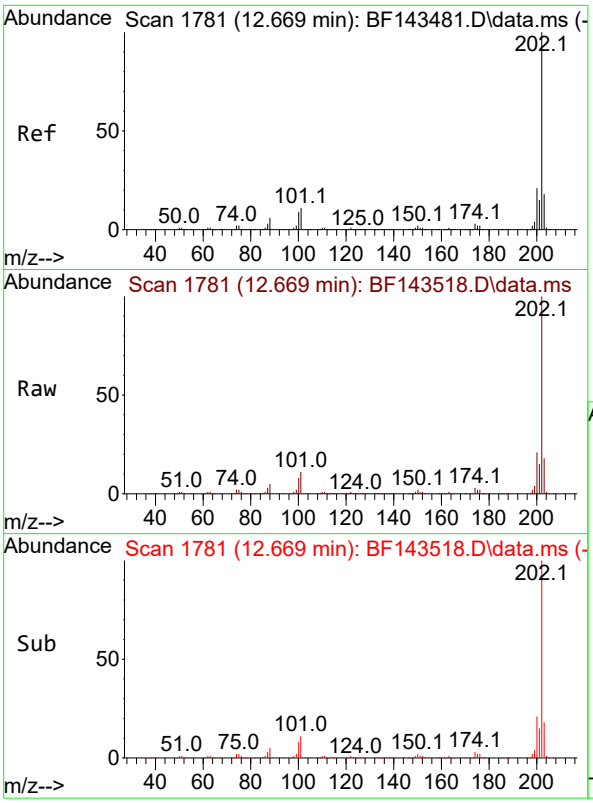


#74
Di-n-butylphthalate
Concen: 46.124 ng
RT: 12.004 min Scan# 1668
Delta R.T. -0.006 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Tgt Ion:149 Resp: 707138

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.2	10.8
104	4.7	3.6	5.4



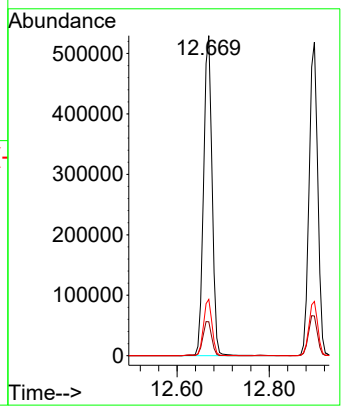


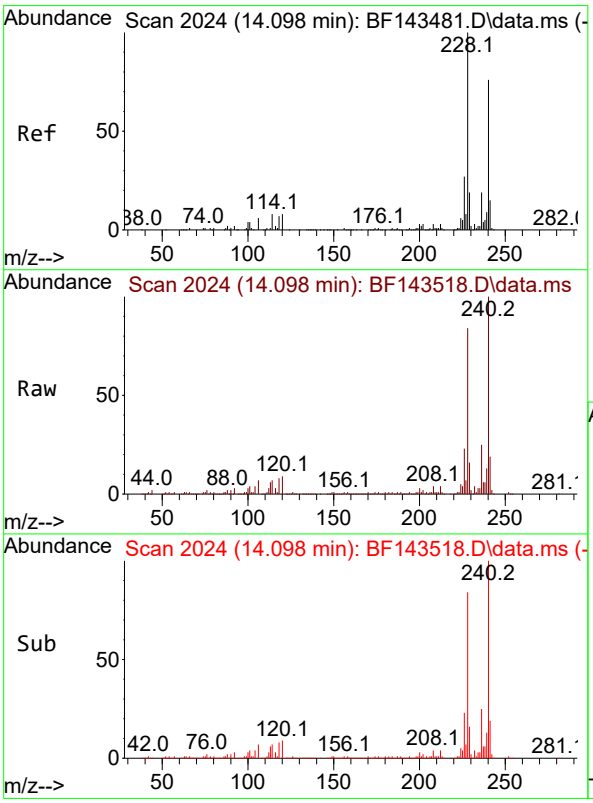
#75
Fluoranthene
Concen: 38.372 ng
RT: 12.669 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:202 Resp: 681682

Ion	Ratio	Lower	Upper
202	100		
101	10.6	0.0	31.3
203	17.6	0.0	37.9

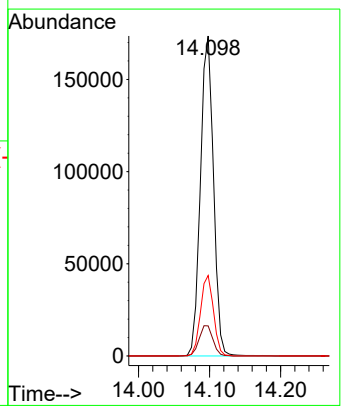


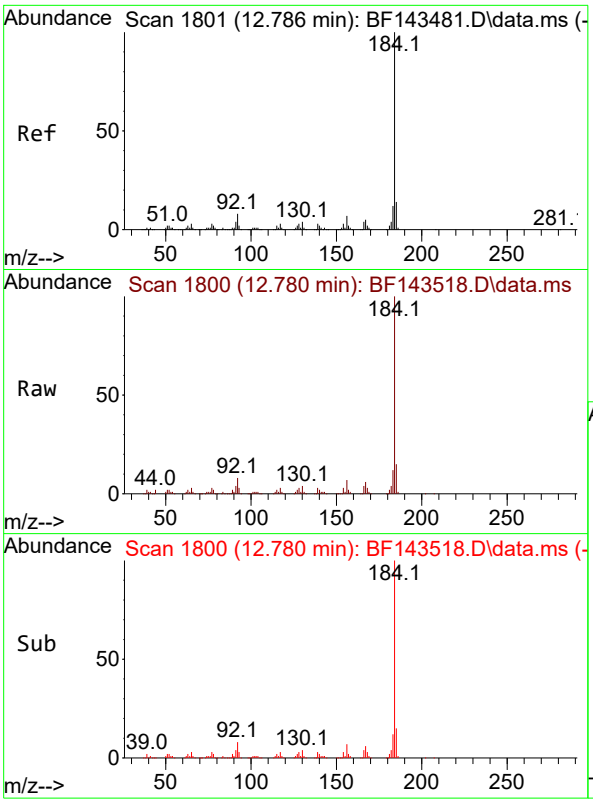


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.098 min Scan# 2024
Delta R.T. -0.006 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Tgt Ion:240 Resp: 222503

Ion	Ratio	Lower	Upper
240	100		
120	9.4	8.6	12.8
236	25.2	20.4	30.6



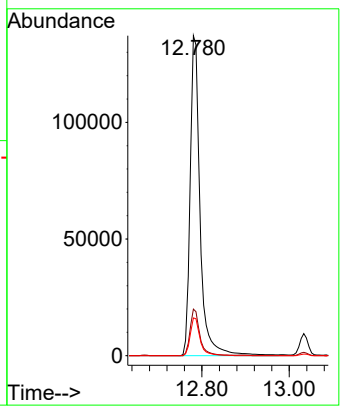


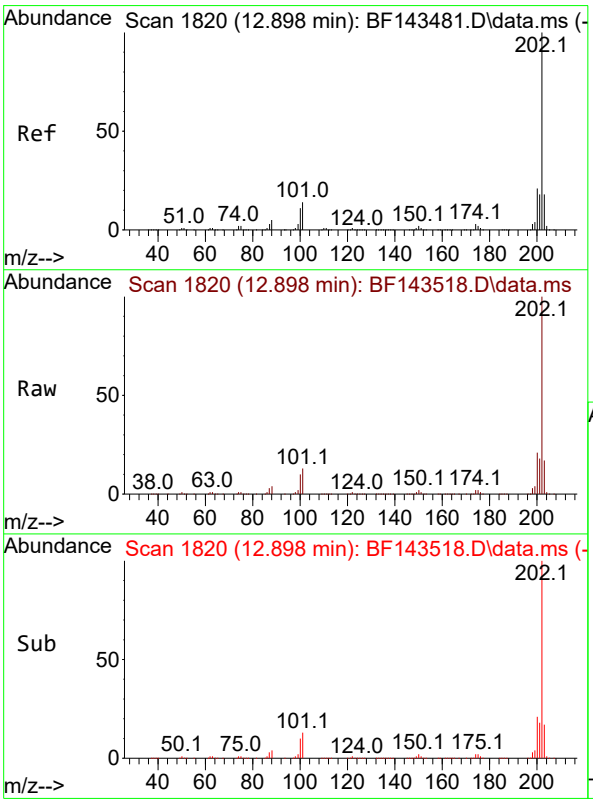
#77
Benzidine
Concen: 40.029 ng
RT: 12.780 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:184 Resp: 216953

Ion	Ratio	Lower	Upper
184	100		
185	14.6	11.3	16.9
183	11.8	9.5	14.3

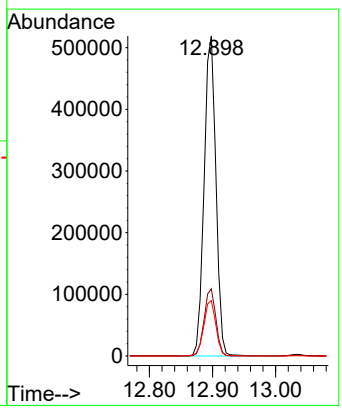


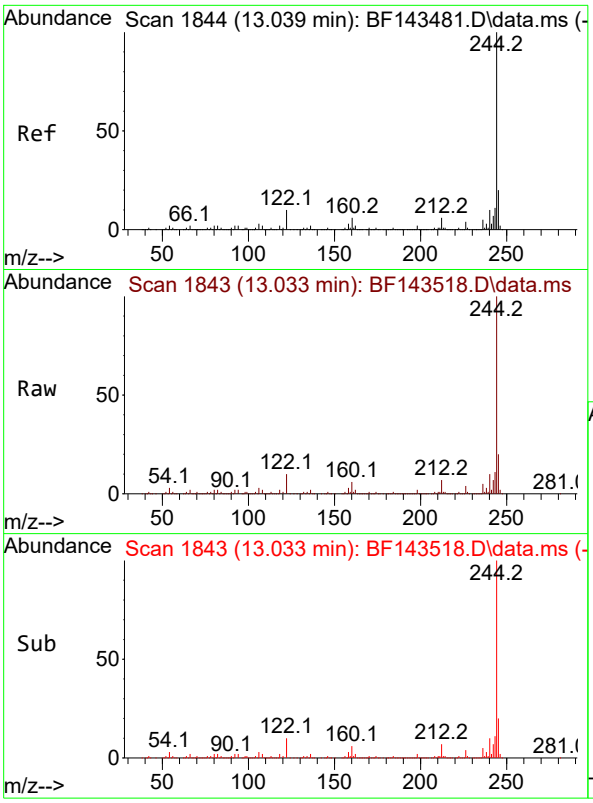


#78
Pyrene
Concen: 36.801 ng
RT: 12.898 min Scan# 1820
Delta R.T. -0.006 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Tgt Ion:202 Resp: 673559

Ion	Ratio	Lower	Upper
202	100		
200	21.0	17.0	25.4
203	17.3	14.3	21.5



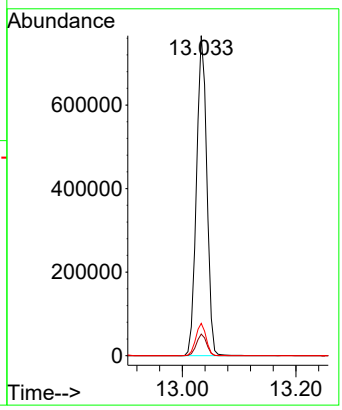


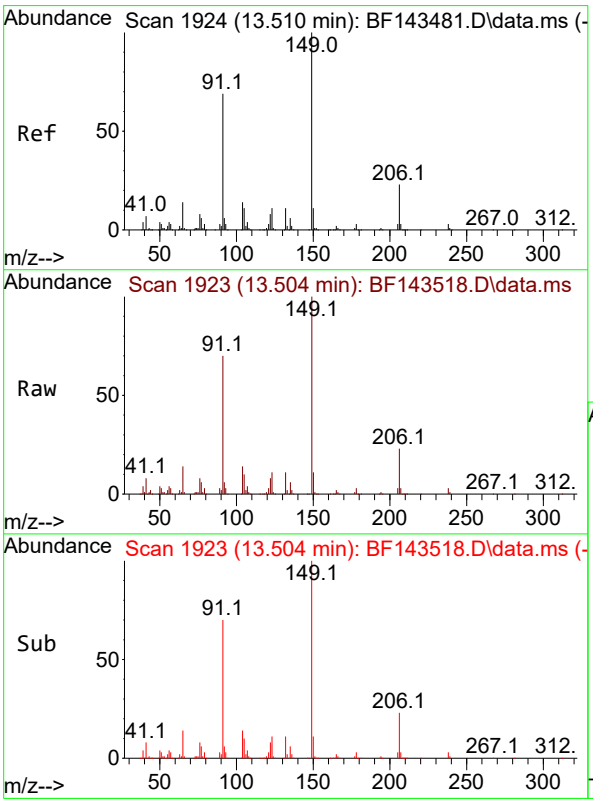
#79
Terphenyl-d14
Concen: 76.374 ng
RT: 13.033 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:244 Resp: 973817

Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.2	7.8
122	10.1	7.9	11.9

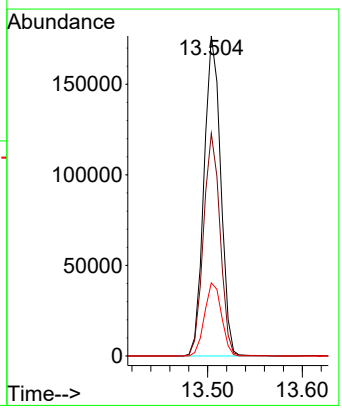


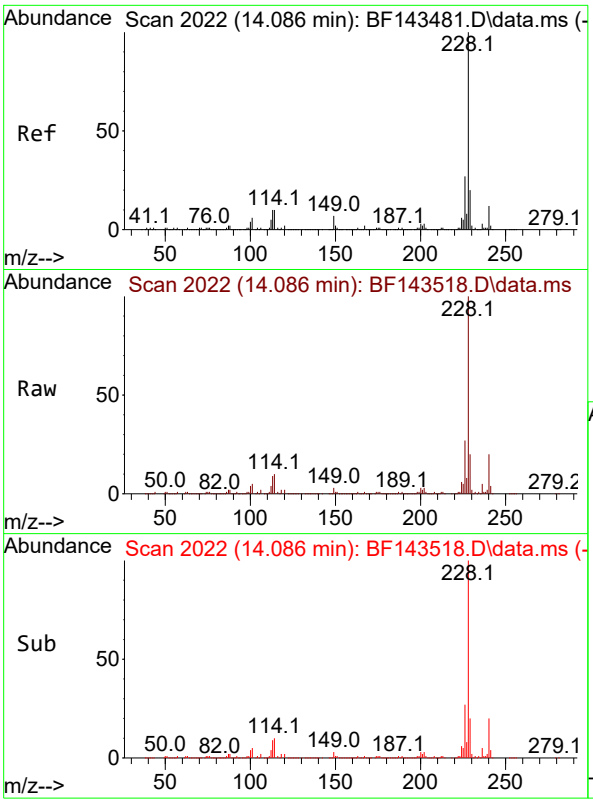


#80
Butylbenzylphthalate
Concen: 43.176 ng
RT: 13.504 min Scan# 1923
Delta R.T. -0.006 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Tgt Ion:149 Resp: 215877

Ion	Ratio	Lower	Upper
149	100		
91	69.5	55.3	82.9
206	22.9	18.2	27.4



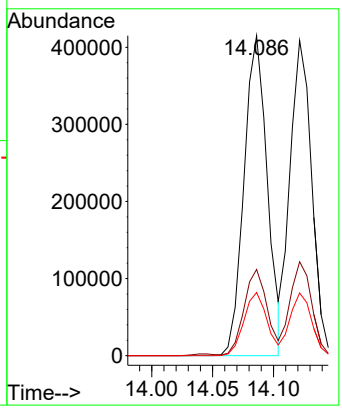


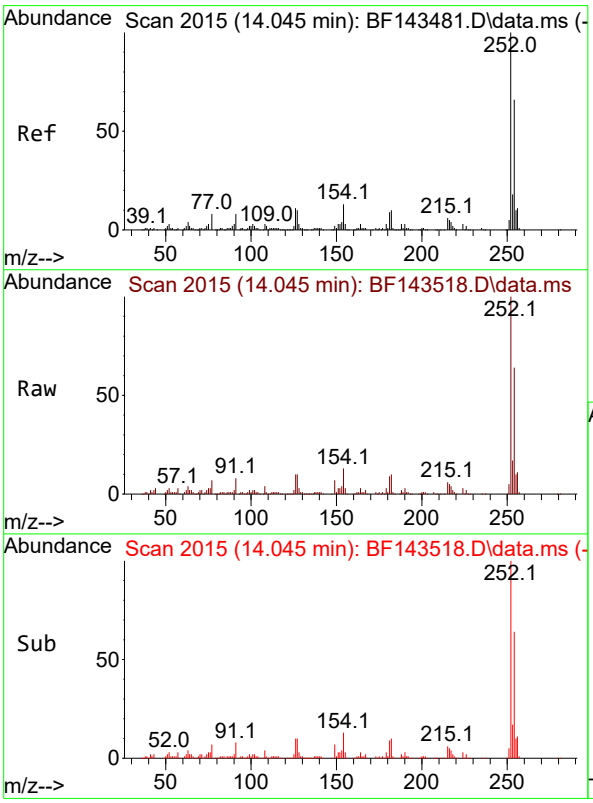
#81
Benzo(a)anthracene
Concen: 38.502 ng
RT: 14.086 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:228 Resp: 551541

Ion	Ratio	Lower	Upper
228	100		
226	27.0	21.7	32.5
229	19.7	15.7	23.5

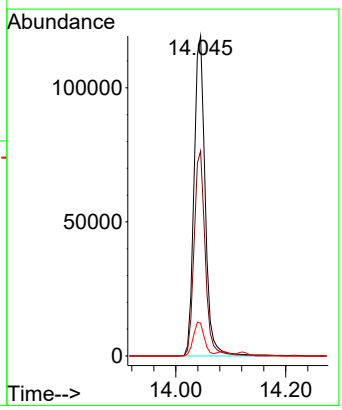


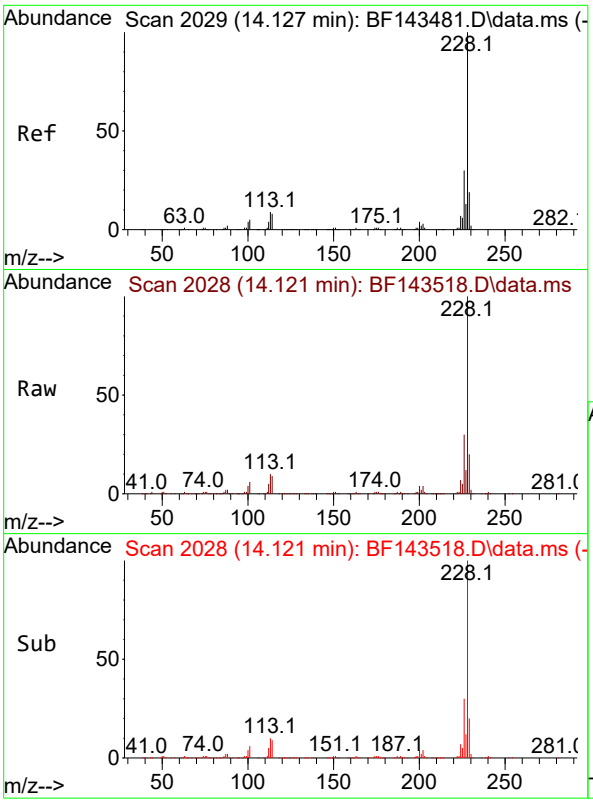


#82
3,3'-Dichlorobenzidine
Concen: 40.879 ng
RT: 14.045 min Scan# 2015
Delta R.T. 0.000 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Tgt Ion:252 Resp: 167699

Ion	Ratio	Lower	Upper
252	100		
254	64.0	52.6	79.0
126	10.2	8.7	13.1



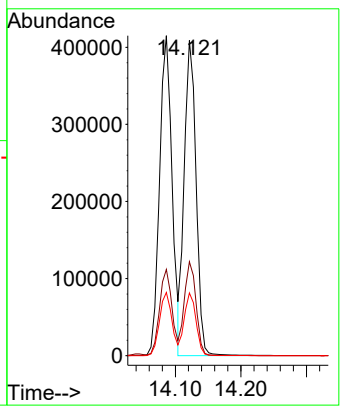


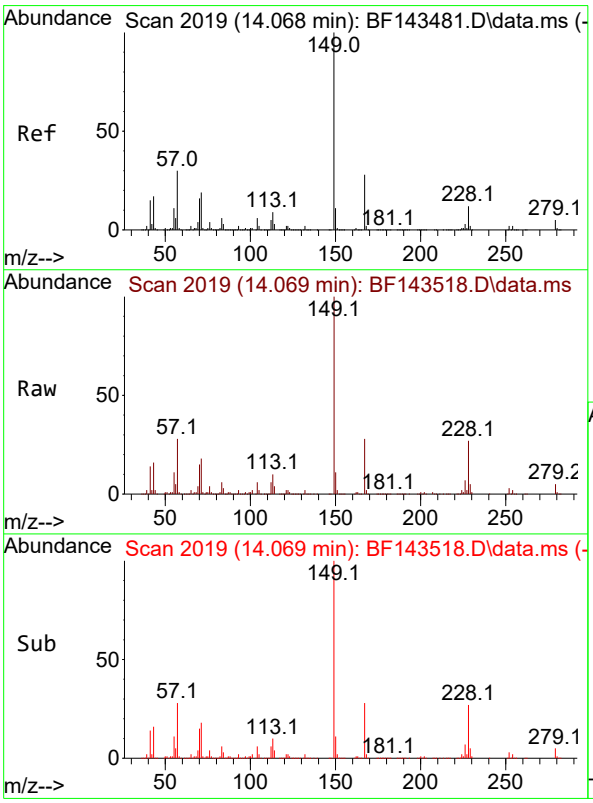
#83
Chrysene
Concen: 39.654 ng
RT: 14.121 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:228 Resp: 510484

Ion	Ratio	Lower	Upper
228	100		
226	29.8	23.7	35.5
229	19.9	15.7	23.5

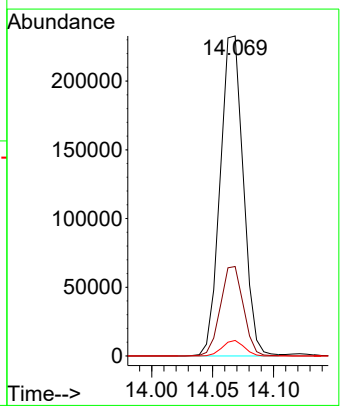


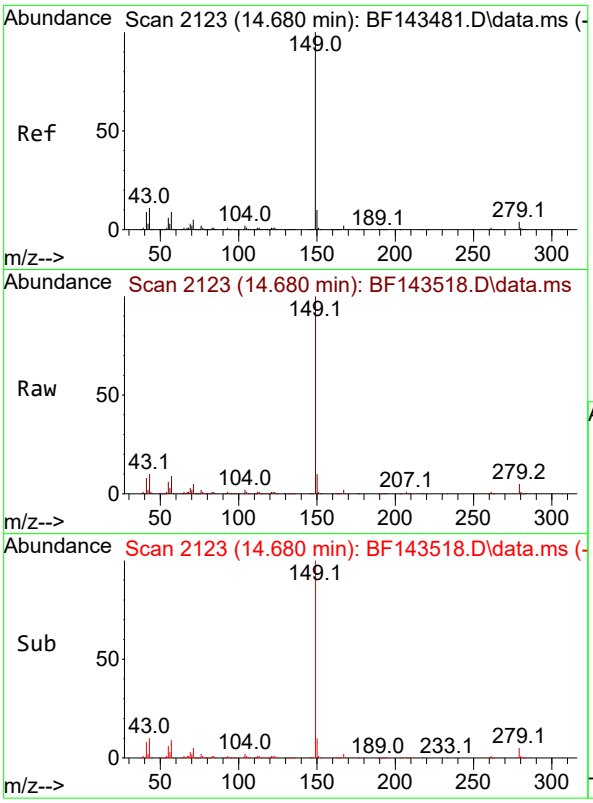


#84
Bis(2-ethylhexyl)phthalate
Concen: 40.447 ng
RT: 14.069 min Scan# 2019
Delta R.T. 0.000 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Tgt Ion:149 Resp: 308015

Ion	Ratio	Lower	Upper
149	100		
167	28.0	22.2	33.2
279	4.8	3.6	5.4



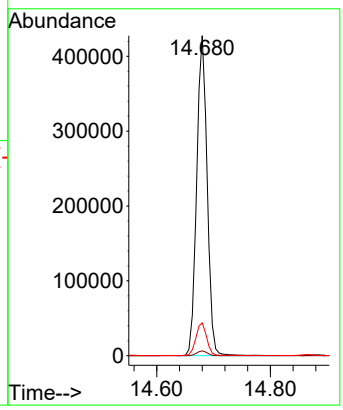


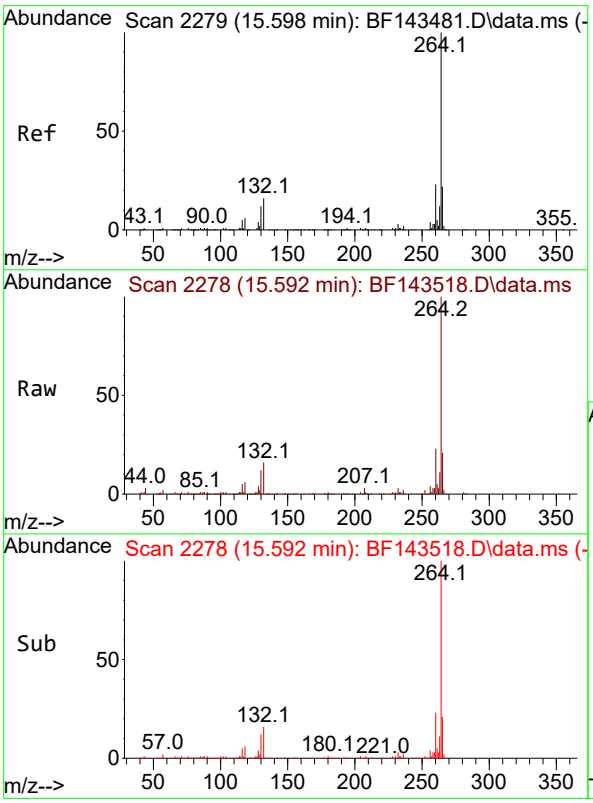
#85
Di-n-octyl phthalate
Concen: 39.064 ng
RT: 14.680 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:149 Resp: 551091

Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.2	1.8
43	10.5	8.5	12.7

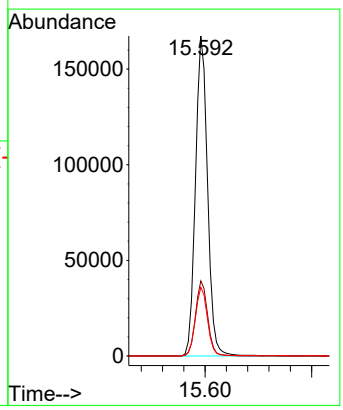


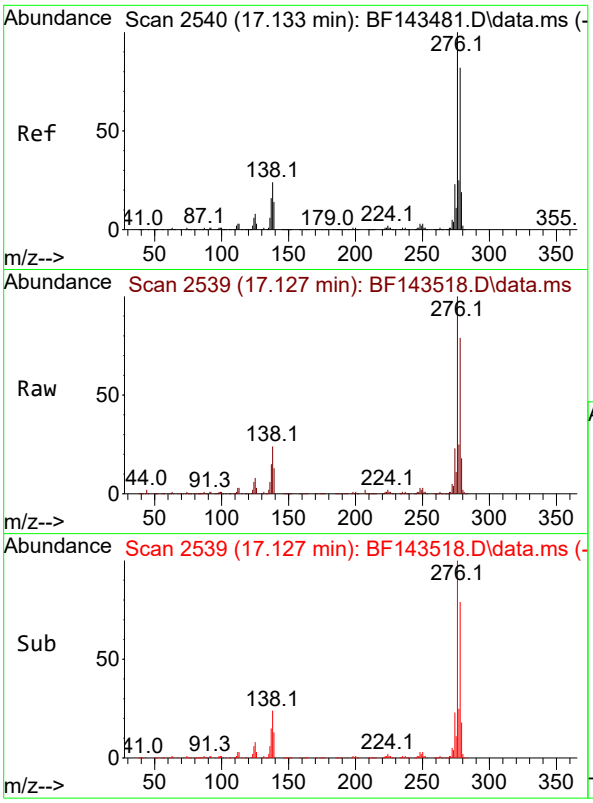


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.592 min Scan# 2278
Delta R.T. -0.006 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Tgt Ion:264 Resp: 262934

Ion	Ratio	Lower	Upper
264	100		
260	23.5	18.7	28.1
265	21.4	17.6	26.4



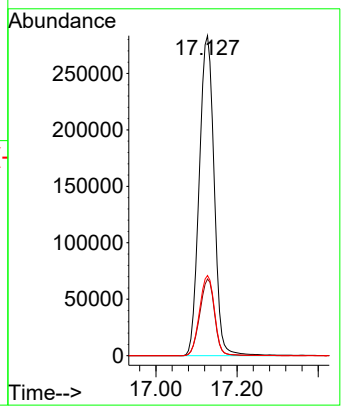


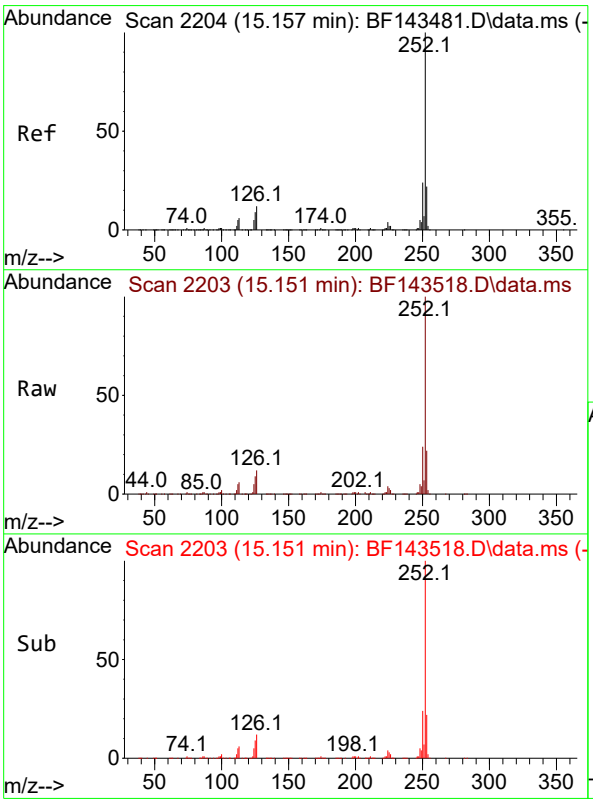
#87
Indeno(1,2,3-cd)pyrene
Concen: 38.259 ng
RT: 17.127 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:276 Resp: 722883

Ion	Ratio	Lower	Upper
276	100		
138	23.8	19.2	28.8
277	25.3	20.3	30.5

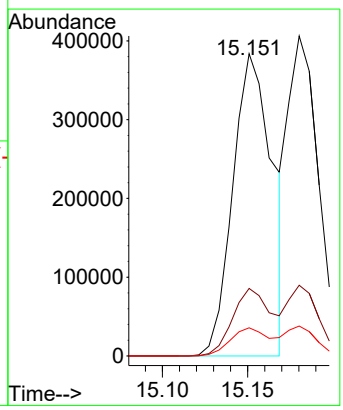


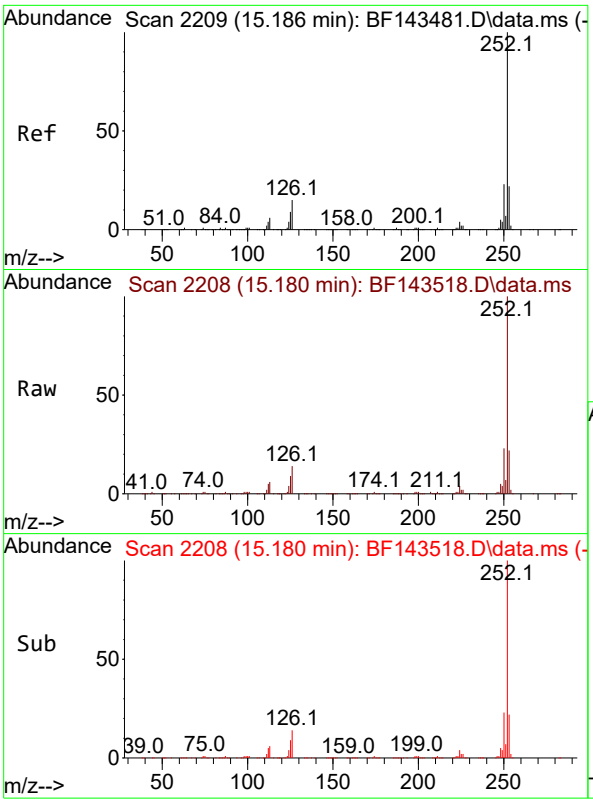


#88
Benzo(b)fluoranthene
Concen: 42.286 ng
RT: 15.151 min Scan# 2203
Delta R.T. -0.006 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Tgt Ion:252 Resp: 618031

Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.5	26.3
125	9.3	7.4	11.0



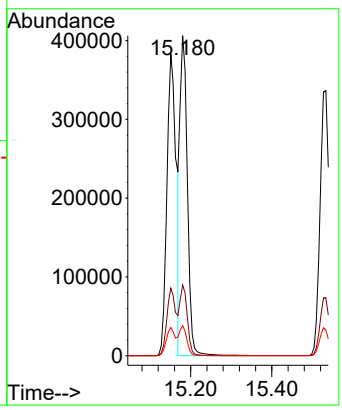


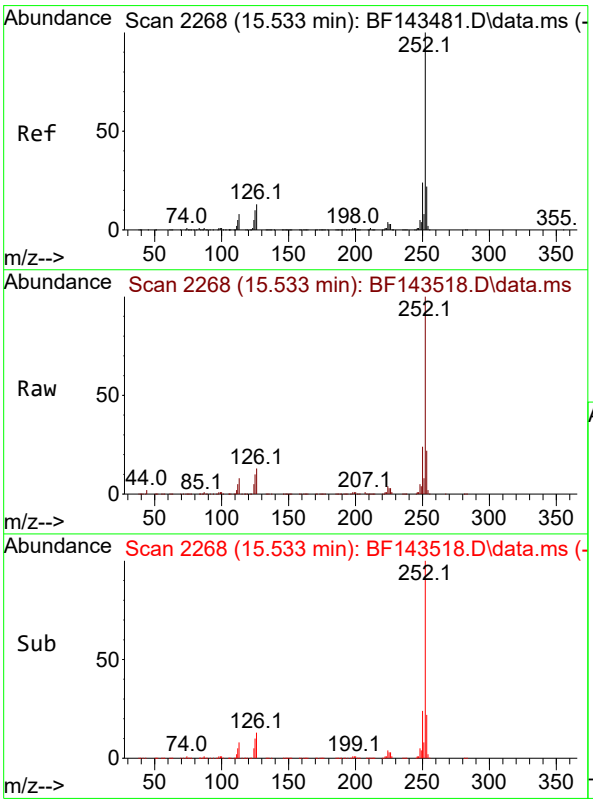
#89
Benzo(k)fluoranthene
Concen: 36.812 ng
RT: 15.180 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:252 Resp: 515140

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.4	26.2
125	9.4	7.4	11.0

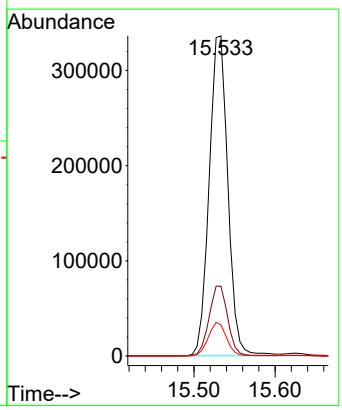


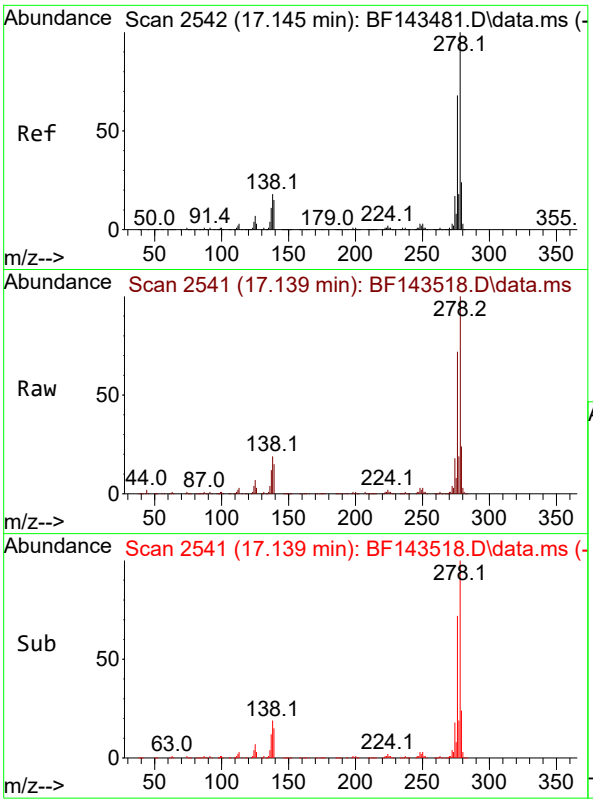


#90
Benzo(a)pyrene
Concen: 39.710 ng
RT: 15.533 min Scan# 2268
Delta R.T. -0.006 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Tgt Ion:252 Resp: 538725

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.4	26.0
125	9.7	8.2	12.2



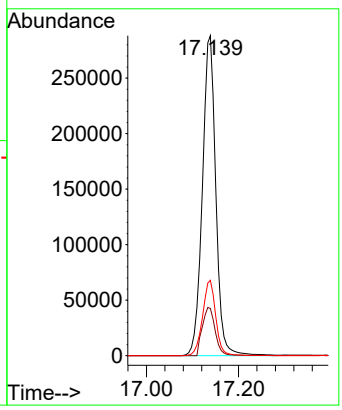


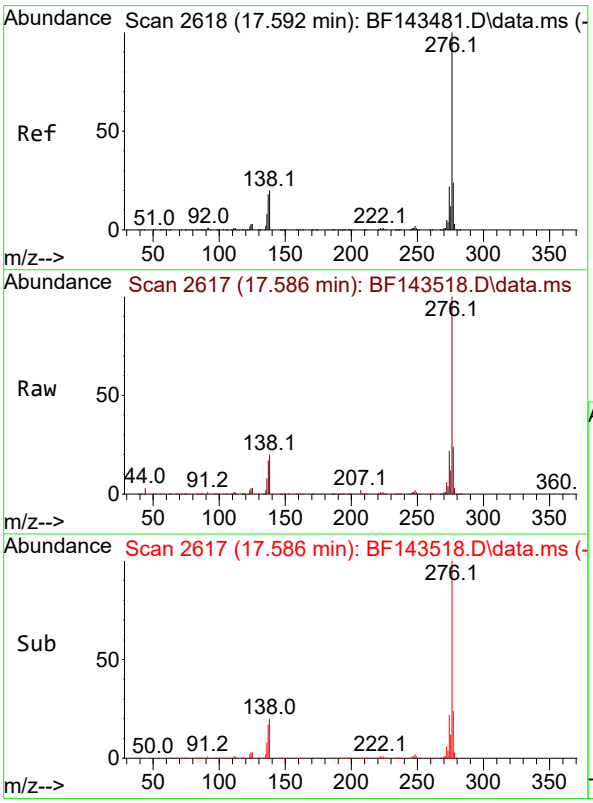
#91
Dibenzo(a,h)anthracene
Concen: 38.822 ng
RT: 17.139 min Scan# 2
Delta R.T. -0.018 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:278 Resp: 587454

Ion	Ratio	Lower	Upper
278	100		
139	14.8	12.1	18.1
279	23.5	19.2	28.8

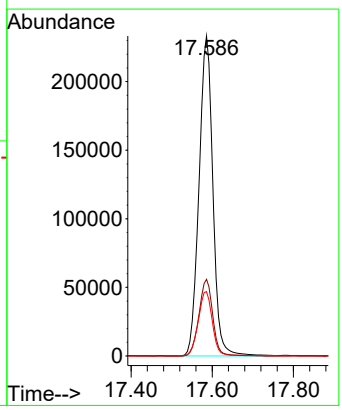




#92
Benzo(g,h,i)perylene
Concen: 36.878 ng
RT: 17.586 min Scan# 2617
Delta R.T. -0.018 min
Lab File: BF143518.D
Acq: 21 Aug 2025 09:21

Tgt Ion:276 Resp: 554893

Ion	Ratio	Lower	Upper
276	100		
277	23.9	18.9	28.3
138	20.1	16.3	24.5



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
Data File : BF143518.D
Acq On : 21 Aug 2025 09:21
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Aug 21 11:45:35 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 21 06:12:21 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	0.531	0.541	-1.9	86	0.00
3		Pyridine	1.413	1.433	-1.4	85	0.00
4		n-Nitrosodimethylamine	0.635	0.638	-0.5	85	-0.02
5	S	2-Fluorophenol	1.145	1.132	1.1	85	0.00
6		Aniline	1.890	1.905	-0.8	86	0.00
7	S	Phenol-d6	1.414	1.413	0.1	86	-0.01
8		2-Chlorophenol	1.265	1.272	-0.6	86	0.00
9		Benzaldehyde	1.145	1.256	-9.7	90	0.00
10	C	Phenol	1.629	1.644	-0.9	86	-0.01
11		bis(2-Chloroethyl)ether	1.217	1.227	-0.8	87	0.00
12		1,3-Dichlorobenzene	1.421	1.414	0.5	86	0.00
13	C	1,4-Dichlorobenzene	1.426	1.427	-0.1	87	0.00
14		1,2-Dichlorobenzene	1.350	1.354	-0.3	86	0.00
15		Benzyl Alcohol	1.059	1.079	-1.9	85	0.00
16		2,2'-oxybis(1-Chloropropane	1.947	1.939	0.4	85	0.00
17		2-Methylphenol	1.015	1.028	-1.3	87	0.00
18		Hexachloroethane	0.485	0.490	-1.0	86	0.00
19	P	n-Nitroso-di-n-propylamine	0.864	0.860	0.5	87	-0.02
20		3+4-Methylphenols	1.212	1.227	-1.2	86	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	86	0.00
22		Acetophenone	0.432	0.427	1.2	88	0.00
23	S	Nitrobenzene-d5	0.343	0.348	-1.5	87	-0.01
24		Nitrobenzene	0.353	0.362	-2.5	87	-0.01
25		Isophorone	0.628	0.630	-0.3	87	-0.01
26	C	2-Nitrophenol	0.173	0.180	-4.0	87	0.00
27		2,4-Dimethylphenol	0.269	0.270	-0.4	86	0.00
28		bis(2-Chloroethoxy)methane	0.386	0.384	0.5	85	0.00
29	C	2,4-Dichlorophenol	0.288	0.290	-0.7	86	0.00
30		1,2,4-Trichlorobenzene	0.296	0.296	0.0	87	0.00
31		Naphthalene	0.960	0.950	1.0	87	0.00
32		Benzoic acid	0.137	0.130	5.1	77	-0.04
33		4-Chloroaniline	0.341	0.339	0.6	85	0.00
34	C	Hexachlorobutadiene	0.193	0.194	-0.5	87	0.00
35		Caprolactam	0.069	0.078	-13.0	95	-0.03
36	C	4-Chloro-3-methylphenol	0.288	0.289	-0.3	87	0.00
37		2-Methylnaphthalene	0.641	0.627	2.2	85	0.00
38		1-Methylnaphthalene	0.613	0.605	1.3	86	0.00
39	I	Acenaphthene-d10	1.000	1.000	0.0	86	0.00
40		1,2,4,5-Tetrachlorobenzene	0.572	0.568	0.7	87	0.00
41	P	Hexachlorocyclopentadiene	0.184	0.169	8.2	74	0.00
42	S	2,4,6-Tribromophenol	0.186	0.186	0.0	86	0.00
43	C	2,4,6-Trichlorophenol	0.352	0.355	-0.9	84	0.00
44		2,4,5-Trichlorophenol	0.385	0.380	1.3	86	0.00
45	S	2-Fluorobiphenyl	1.210	1.177	2.7	88	0.00
46		1,1'-Biphenyl	1.420	1.391	2.0	86	0.00
47		2-Chloronaphthalene	1.114	1.096	1.6	86	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
Data File : BF143518.D
Acq On : 21 Aug 2025 09:21
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Aug 21 11:45:35 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 21 06:12:21 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	0.326	0.335	-2.8	86	0.00
49		Acenaphthylene	1.595	1.578	1.1	86	0.00
50		Dimethylphthalate	1.205	1.250	-3.7	90	0.00
51		2,6-Dinitrotoluene	0.250	0.265	-6.0	88	0.00
52	C	Acenaphthene	1.083	1.067	1.5	86	0.00
53		3-Nitroaniline	0.270	0.278	-3.0	86	0.00
54	P	2,4-Dinitrophenol	0.115	0.109	5.2	79	0.00
55		Dibenzofuran	1.544	1.525	1.2	87	0.00
56	P	4-Nitrophenol	0.161	0.155	3.7	78	0.00
57		2,4-Dinitrotoluene	0.333	0.357	-7.2	88	-0.01
58		Fluorene	1.188	1.164	2.0	87	0.00
59		2,3,4,6-Tetrachlorophenol	0.286	0.289	-1.0	84	0.00
60		Diethylphthalate	1.080	1.140	-5.6	91	0.00
61		4-Chlorophenyl-phenylether	0.594	0.589	0.8	87	0.00
62		4-Nitroaniline	0.248	0.258	-4.0	87	-0.01
63		Azobenzene	1.120	1.123	-0.3	87	0.00
64	I	Phenanthrene-d10	1.000	1.000	0.0	85	0.00
65		4,6-Dinitro-2-methylphenol	0.113	0.107	5.3	76	0.00
66	c	n-Nitrosodiphenylamine	0.644	0.645	-0.2	85	0.00
67		4-Bromophenyl-phenylether	0.239	0.242	-1.3	85	0.00
68		Hexachlorobenzene	0.257	0.257	0.0	85	0.00
69		Atrazine	0.166	0.195	-17.5	98	0.00
70	C	Pentachlorophenol	0.118	0.106	10.2	73	0.00
71		Phenanthrene	1.071	1.052	1.8	86	0.00
72		Anthracene	1.085	1.065	1.8	84	0.00
73		Carbazole	0.889	0.875	1.6	84	0.00
74		Di-n-butylphthalate	0.829	0.956	-15.3	95	0.00
75	C	Fluoranthene	0.961	0.922	4.1	83	0.00
76	I	Chrysene-d12	1.000	1.000	0.0	89	0.00
77		Benzidine	0.487	0.488	-0.2	84	0.00
78		Pyrene	1.645	1.514	8.0	82	0.00
79	S	Terphenyl-d14	1.146	1.094	4.5	86	0.00
80		Butylbenzylphthalate	0.449	0.485	-8.0	92	0.00
81		Benzo(a)anthracene	1.288	1.239	3.8	84	0.00
82		3,3'-Dichlorobenzidine	0.369	0.377	-2.2	90	0.00
83		Chrysene	1.157	1.147	0.9	92	0.00
84		Bis(2-ethylhexyl)phthalate	0.685	0.692	-1.0	87	0.00
85	c	Di-n-octyl phthalate	1.268	1.238	2.4	85	0.00
86	I	Perylene-d12	1.000	1.000	0.0	91	0.00
87		Indeno(1,2,3-cd)pyrene	1.437	1.375	4.3	87	-0.01
88		Benzo(b)fluoranthene	1.112	1.175	-5.7	100	0.00
89		Benzo(k)fluoranthene	1.064	0.980	7.9	83	-0.01
90	C	Benzo(a)pyrene	1.032	1.024	0.8	91	0.00
91		Dibenzo(a,h)anthracene	1.151	1.117	3.0	88	-0.02
92		Benzo(g,h,i)perylene	1.145	1.055	7.9	83	-0.02

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
Data File : BF143518.D
Acq On : 21 Aug 2025 09:21
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Aug 21 11:45:35 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 21 06:12:21 2025
Response via : Initial Calibration

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

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
Data File : BF143518.D
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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	40.780	-2.0	86	0.00
3		Pyridine	40.000	40.552	-1.4	85	0.00
4		n-Nitrosodimethylamine	40.000	40.163	-0.4	85	-0.02
5	S	2-Fluorophenol	80.000	79.089	1.1	85	0.00
6		Aniline	40.000	40.315	-0.8	86	0.00
7	S	Phenol-d6	80.000	79.973	0.0	86	-0.01
8		2-Chlorophenol	40.000	40.208	-0.5	86	0.00
9		Benzaldehyde	40.000	43.891	-9.7	90	0.00
10	C	Phenol	40.000	40.372	-0.9	86	-0.01
11		bis(2-Chloroethyl)ether	40.000	40.314	-0.8	87	0.00
12		1,3-Dichlorobenzene	40.000	39.802	0.5	86	0.00
13	C	1,4-Dichlorobenzene	40.000	40.045	-0.1	87	0.00
14		1,2-Dichlorobenzene	40.000	40.122	-0.3	86	0.00
15		Benzyl Alcohol	40.000	40.760	-1.9	85	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	39.834	0.4	85	0.00
17		2-Methylphenol	40.000	40.511	-1.3	87	0.00
18		Hexachloroethane	40.000	40.435	-1.1	86	0.00
19	P	n-Nitroso-di-n-propylamine	40.000	39.822	0.4	87	-0.02
20		3+4-Methylphenols	40.000	40.503	-1.3	86	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	86	0.00
22		Acetophenone	40.000	39.507	1.2	88	0.00
23	S	Nitrobenzene-d5	80.000	81.228	-1.5	87	-0.01
24		Nitrobenzene	40.000	41.020	-2.6	87	-0.01
25		Isophorone	40.000	40.104	-0.3	87	-0.01
26	C	2-Nitrophenol	40.000	41.767	-4.4	87	0.00
27		2,4-Dimethylphenol	40.000	40.108	-0.3	86	0.00
28		bis(2-Chloroethoxy)methane	40.000	39.742	0.6	85	0.00
29	C	2,4-Dichlorophenol	40.000	40.285	-0.7	86	0.00
30		1,2,4-Trichlorobenzene	40.000	40.066	-0.2	87	0.00
31		Naphthalene	40.000	39.587	1.0	87	0.00
32		Benzoic acid	40.000	35.717	10.7	77	-0.04
33		4-Chloroaniline	40.000	39.804	0.5	85	0.00
34	C	Hexachlorobutadiene	40.000	40.194	-0.5	87	0.00
35		Caprolactam	40.000	45.135	-12.8	95	-0.03
36	C	4-Chloro-3-methylphenol	40.000	40.144	-0.4	87	0.00
37		2-Methylnaphthalene	40.000	39.089	2.3	85	0.00
38		1-Methylnaphthalene	40.000	39.436	1.4	86	0.00
39	I	Acenaphthene-d10	20.000	20.000	0.0	86	0.00
40		1,2,4,5-Tetrachlorobenzene	40.000	39.693	0.8	87	0.00
41	P	Hexachlorocyclopentadiene	40.000	34.356	14.1	74	0.00
42	S	2,4,6-Tribromophenol	80.000	79.836	0.2	86	0.00
43	C	2,4,6-Trichlorophenol	40.000	40.335	-0.8	84	0.00
44		2,4,5-Trichlorophenol	40.000	39.568	1.1	86	0.00
45	S	2-Fluorobiphenyl	80.000	77.819	2.7	88	0.00
46		1,1'-Biphenyl	40.000	39.203	2.0	86	0.00
47		2-Chloronaphthalene	40.000	39.372	1.6	86	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
Data File : BF143518.D
Acq On : 21 Aug 2025 09:21
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Aug 21 11:45:35 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 21 06:12:21 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	41.078	-2.7	86	0.00
49		Acenaphthylene	40.000	39.570	1.1	86	0.00
50		Dimethylphthalate	40.000	41.504	-3.8	90	0.00
51		2,6-Dinitrotoluene	40.000	42.495	-6.2	88	0.00
52	C	Acenaphthene	40.000	39.417	1.5	86	0.00
53		3-Nitroaniline	40.000	41.155	-2.9	86	0.00
54	P	2,4-Dinitrophenol	40.000	35.824	10.4	79	0.00
55		Dibenzofuran	40.000	39.509	1.2	87	0.00
56	P	4-Nitrophenol	40.000	38.513	3.7	78	0.00
57		2,4-Dinitrotoluene	40.000	42.812	-7.0	88	-0.01
58		Fluorene	40.000	39.184	2.0	87	0.00
59		2,3,4,6-Tetrachlorophenol	40.000	40.463	-1.2	84	0.00
60		Diethylphthalate	40.000	42.212	-5.5	91	0.00
61		4-Chlorophenyl-phenylether	40.000	39.680	0.8	87	0.00
62		4-Nitroaniline	40.000	41.677	-4.2	87	-0.01
63		Azobenzene	40.000	40.129	-0.3	87	0.00
64	I	Phenanthrene-d10	20.000	20.000	0.0	85	0.00
65		4,6-Dinitro-2-methylphenol	40.000	37.928	5.2	76	0.00
66	c	n-Nitrosodiphenylamine	40.000	40.110	-0.3	85	0.00
67		4-Bromophenyl-phenylether	40.000	40.542	-1.4	85	0.00
68		Hexachlorobenzene	40.000	39.979	0.1	85	0.00
69		Atrazine	40.000	46.846	-17.1	98	0.00
70	C	Pentachlorophenol	40.000	36.133	9.7	73	0.00
71		Phenanthrene	40.000	39.294	1.8	86	0.00
72		Anthracene	40.000	39.255	1.9	84	0.00
73		Carbazole	40.000	39.380	1.5	84	0.00
74		Di-n-butylphthalate	40.000	46.124	-15.3	95	0.00
75	C	Fluoranthene	40.000	38.372	4.1	83	0.00
76	I	Chrysene-d12	20.000	20.000	0.0	89	0.00
77		Benzidine	40.000	40.029	-0.1	84	0.00
78		Pyrene	40.000	36.801	8.0	82	0.00
79	S	Terphenyl-d14	80.000	76.374	4.5	86	0.00
80		Butylbenzylphthalate	40.000	43.176	-7.9	92	0.00
81		Benzo(a)anthracene	40.000	38.502	3.7	84	0.00
82		3,3'-Dichlorobenzidine	40.000	40.879	-2.2	90	0.00
83		Chrysene	40.000	39.654	0.9	92	0.00
84		Bis(2-ethylhexyl)phthalate	40.000	40.447	-1.1	87	0.00
85	c	Di-n-octyl phthalate	40.000	39.064	2.3	85	0.00
86	I	Perylene-d12	20.000	20.000	0.0	91	0.00
87		Indeno(1,2,3-cd)pyrene	40.000	38.259	4.4	87	-0.01
88		Benzo(b)fluoranthene	40.000	42.286	-5.7	100	0.00
89		Benzo(k)fluoranthene	40.000	36.812	8.0	83	-0.01
90	C	Benzo(a)pyrene	40.000	39.710	0.7	91	0.00
91		Dibenzo(a,h)anthracene	40.000	38.822	2.9	88	-0.02
92		Benzo(g,h,i)perylene	40.000	36.878	7.8	83	-0.02

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
Data File : BF143518.D
Acq On : 21 Aug 2025 09:21
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Aug 21 11:45:35 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 21 06:12:21 2025
Response via : Initial Calibration

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

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

(#) = Out of Range SPCC's out = 0 CCC's out = 0

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: FIRS02

Lab Code: ACE SDG No.: Q2819

Instrument ID: BNA_F Calibration Date/Time: 08/21/2025 19:32

Lab File ID: BF143539.D Init. Calib. Date(s): 08/20/2025 08/20/2025

EPA Sample No.: SSTDCCC040EC Init. Calib. Time(s): 10:55 14:20

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.145	1.138		-0.6	50.0
Benzaldehyde	1.145	1.334		16.5	50.0
Phenol-d6	1.414	1.375		-2.8	50.0
Phenol	1.629	1.605		-1.5	50.0
bis(2-Chloroethyl)ether	1.217	1.180		-3.0	50.0
2-Chlorophenol	1.265	1.247		-1.4	50.0
2-Methylphenol	1.015	0.989		-2.6	50.0
2,2-oxybis(1-Chloropropane)	1.947	1.836		-5.7	50.0
Acetophenone	0.432	0.430		-0.5	50.0
3+4-Methylphenols	1.212	1.209		-0.2	50.0
n-Nitroso-di-n-propylamine	0.864	0.843	0.050	-2.4	50.0
Nitrobenzene-d5	0.343	0.348		1.5	50.0
Hexachloroethane	0.485	0.487		0.4	50.0
Nitrobenzene	0.353	0.363		2.8	50.0
Isophorone	0.628	0.636		1.3	50.0
2-Nitrophenol	0.173	0.179		3.5	50.0
2,4-Dimethylphenol	0.269	0.267		-0.7	50.0
bis(2-Chloroethoxy)methane	0.386	0.385		-0.3	50.0
2,4-Dichlorophenol	0.288	0.283		-1.7	50.0
Naphthalene	0.960	0.942		-1.9	50.0
4-Chloroaniline	0.341	0.329		-3.5	50.0
Hexachlorobutadiene	0.193	0.196		1.6	50.0
Caprolactam	0.069	0.076		10.1	50.0
4-Chloro-3-methylphenol	0.288	0.279		-3.1	50.0
2-Methylnaphthalene	0.641	0.620		-3.3	50.0
Hexachlorocyclopentadiene	0.184	0.203	0.050	10.3	50.0
2,4,6-Trichlorophenol	0.352	0.369		4.8	50.0
2-Fluorobiphenyl	1.210	1.266		4.6	50.0
2,4,5-Trichlorophenol	0.385	0.387		0.5	50.0
1,1-Biphenyl	1.420	1.484		4.5	50.0
2-Chloronaphthalene	1.114	1.142		2.5	50.0
2-Nitroaniline	0.326	0.339		4.0	50.0
Dimethylphthalate	1.205	1.333		10.6	50.0
Acenaphthylene	1.595	1.612		1.1	50.0
2,6-Dinitrotoluene	0.250	0.267		6.8	50.0
3-Nitroaniline	0.270	0.274		1.5	50.0
Acenaphthene	1.083	1.076		-0.6	50.0
2,4-Dinitrophenol	0.115	0.095	0.050	-17.4	50.0
4-Nitrophenol	0.161	0.175	0.050	8.7	50.0

Form VII SV-1

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: Alliance Contract: FIRS02

Lab Code: ACE SDG No.: Q2819

Instrument ID: BNA_F Calibration Date/Time: 08/21/2025 19:32

Lab File ID: BF143539.D Init. Calib. Date(s): 08/20/2025 08/20/2025

EPA Sample No.: SSTDCCC040EC Init. Calib. Time(s): 10:55 14:20

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.544	1.507		-2.4	50.0
2,4-Dinitrotoluene	0.333	0.340		2.1	50.0
Diethylphthalate	1.080	1.180		9.3	50.0
4-Chlorophenyl-phenylether	0.594	0.588		-1.0	50.0
Fluorene	1.188	1.140		-4.0	50.0
4-Nitroaniline	0.248	0.244		-1.6	50.0
4,6-Dinitro-2-methylphenol	0.113	0.091		-19.5	50.0
n-Nitrosodiphenylamine	0.644	0.713		10.7	50.0
2,4,6-Tribromophenol	0.186	0.167		-10.2	50.0
4-Bromophenyl-phenylether	0.239	0.259		8.4	50.0
Hexachlorobenzene	0.257	0.263		2.3	50.0
Atrazine	0.166	0.212		27.7	50.0
Pentachlorophenol	0.118	0.244		106.8	50.0
Phenanthrene	1.071	1.070		-0.1	50.0
Anthracene	1.085	1.084		-0.1	50.0
Carbazole	0.889	0.901		1.4	50.0
Di-n-butylphthalate	0.829	1.069		29.0	50.0
Fluoranthene	0.961	0.984		2.4	50.0
Pyrene	1.645	1.215		-26.1	50.0
Terphenyl-d14	1.146	0.889		-22.4	50.0
Butylbenzylphthalate	0.449	0.495		10.2	50.0
3,3-Dichlorobenzidine	0.369	0.389		5.4	50.0
Benzo(a)anthracene	1.288	1.260		-2.2	50.0
Chrysene	1.157	1.191		2.9	50.0
Bis(2-ethylhexyl)phthalate	0.685	0.737		7.6	50.0
Di-n-octyl phthalate	1.268	1.337		5.4	50.0
Benzo(b)fluoranthene	1.112	1.179		6.0	50.0
Benzo(k)fluoranthene	1.064	1.106		3.9	50.0
Benzo(a)pyrene	1.032	1.041		0.9	50.0
Indeno(1,2,3-cd)pyrene	1.437	1.011		-29.6	50.0
Dibenzo(a,h)anthracene	1.151	0.836		-27.4	50.0
Benzo(g,h,i)perylene	1.145	0.732		-36.1	50.0
1,2,4,5-Tetrachlorobenzene	0.572	0.595		4.0	50.0
1,4-Dioxane	0.531	0.518		-2.4	50.0
2,3,4,6-Tetrachlorophenol	0.286	0.270		-5.6	50.0

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
Data File : BF143539.D
Acq On : 21 Aug 2025 19:32
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Quant Time: Aug 22 01:02:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 21 06:12:21 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.928	152	110484	20.000	ng		0.00
21) Naphthalene-d8	8.210	136	402251	20.000	ng		0.00
39) Acenaphthene-d10	9.963	164	197751	20.000	ng		0.00
64) Phenanthrene-d10	11.451	188	266164	20.000	ng		0.00
76) Chrysene-d12	14.098	240	224613	20.000	ng		0.00
86) Perylene-d12	15.592	264	256535	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.557	112	502829	79.470	ng		0.00
7) Phenol-d6	6.563	99	607545	77.784	ng		-0.01
23) Nitrobenzene-d5	7.487	82	560673	81.337	ng		-0.01
42) 2,4,6-Tribromophenol	10.757	330	131942	71.678	ng		0.00
45) 2-Fluorobiphenyl	9.281	172	1001186	83.673	ng		0.00
79) Terphenyl-d14	13.033	244	798863	62.064	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.734	88	114523	39.072	ng		99
3) Pyridine	3.510	79	304538	39.009	ng		99
4) n-Nitrosodimethylamine	3.457	42	139889	39.860	ng		97
6) Aniline	6.587	93	401267	38.435	ng	#	84
8) 2-Chlorophenol	6.716	128	275473	39.418	ng		100
9) Benzaldehyde	6.481	77	294783	46.616	ng		100
10) Phenol	6.575	94	354741	39.425	ng		92
11) bis(2-Chloroethyl)ether	6.657	93	260716	38.774	ng		100
12) 1,3-Dichlorobenzene	6.869	146	305256	38.875	ng		99
13) 1,4-Dichlorobenzene	6.945	146	310463	39.416	ng		99
14) 1,2-Dichlorobenzene	7.098	146	290881	39.005	ng		100
15) Benzyl Alcohol	7.069	79	233545	39.937	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.193	45	405626	37.707	ng		85
17) 2-Methylphenol	7.181	107	218625	38.978	ng		96
18) Hexachloroethane	7.440	117	107596	40.177	ng		98
19) n-Nitroso-di-n-propyla...	7.340	70	186353	39.035	ng		99
20) 3+4-Methylphenols	7.334	107	267236	39.911	ng		98
22) Acetophenone	7.334	105	346144	39.831	ng		99
24) Nitrobenzene	7.510	77	292216	41.188	ng		99
25) Isophorone	7.745	82	511518	40.481	ng		100
26) 2-Nitrophenol	7.822	139	144354	41.538	ng		96
27) 2,4-Dimethylphenol	7.863	122	214593	39.611	ng		98
28) bis(2-Chloroethoxy)met...	7.951	93	309875	39.904	ng		100
29) 2,4-Dichlorophenol	8.069	162	227965	39.400	ng		99
30) 1,2,4-Trichlorobenzene	8.151	180	235019	39.508	ng		100
31) Naphthalene	8.234	128	758151	39.258	ng		100
32) Benzoic acid	7.975	122	95321	32.943	ng		98
33) 4-Chloroaniline	8.275	127	264368	38.570	ng		99
34) Hexachlorobutadiene	8.351	225	157980	40.705	ng		100
35) Caprolactam	8.639	113	60796	43.789	ng		96
36) 4-Chloro-3-methylphenol	8.763	107	224793	38.769	ng		100
37) 2-Methylnaphthalene	8.922	142	498908	38.680	ng		98
38) 1-Methylnaphthalene	9.022	142	468992	38.013	ng		100
40) 1,2,4,5-Tetrachloroben...	9.092	216	235213	41.583	ng		99
41) Hexachlorocyclopentadiene	9.081	237	80228	40.008	ng		99
43) 2,4,6-Trichlorophenol	9.204	196	146031	41.956	ng		100

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
Data File : BF143539.D
Acq On : 21 Aug 2025 19:32
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Quant Time: Aug 22 01:02:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 21 06:12:21 2025
Response via : Initial Calibration

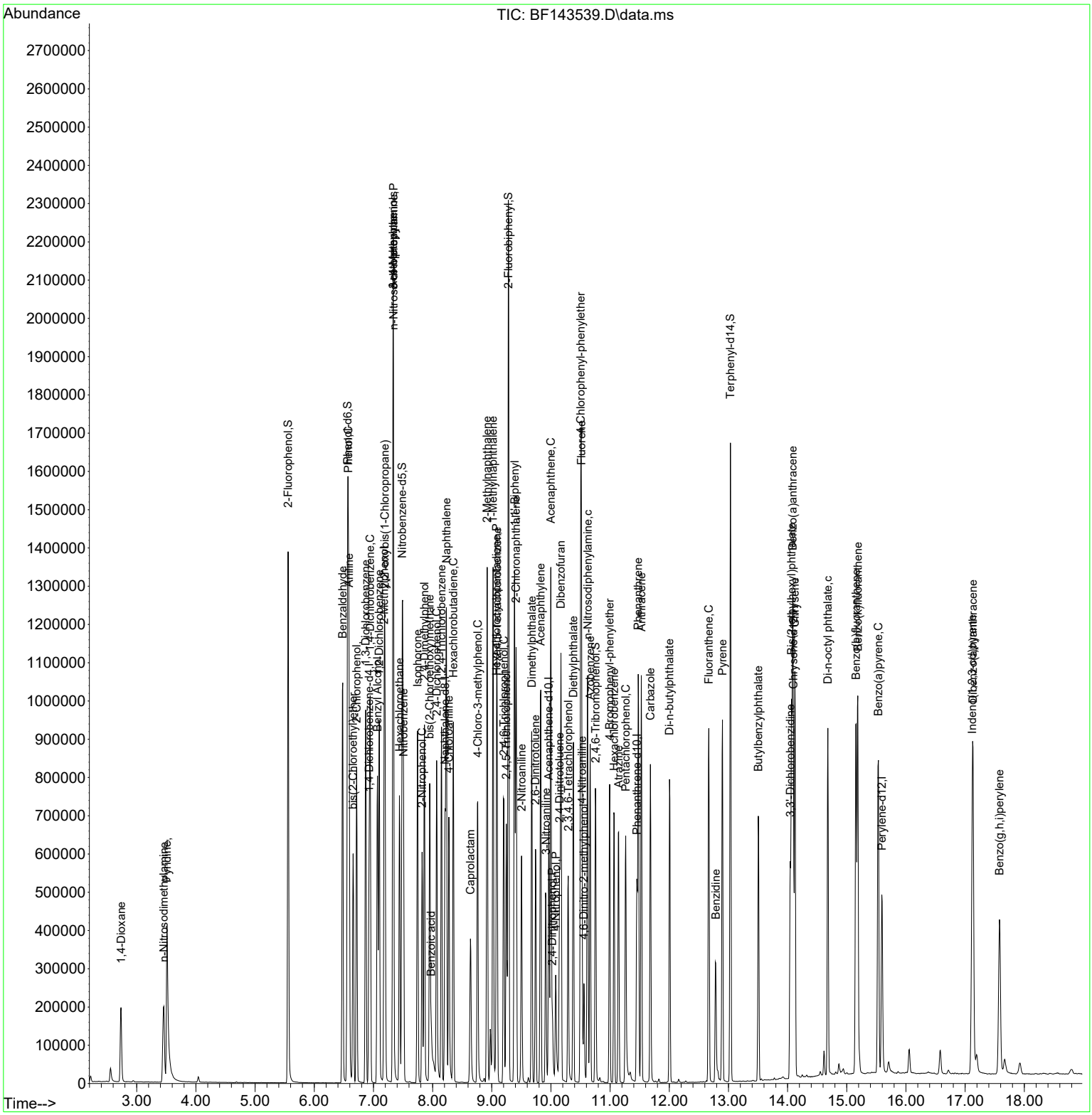
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.245	196	152926	40.224	ng	99
46) 1,1'-Biphenyl	9.386	154	586854	41.811	ng	99
47) 2-Chloronaphthalene	9.410	162	451645	41.011	ng	99
48) 2-Nitroaniline	9.504	65	134022	41.582	ng	96
49) Acenaphthylene	9.828	152	637603	40.434	ng	100
50) Dimethylphthalate	9.675	163	527145	44.261	ng	100
51) 2,6-Dinitrotoluene	9.739	165	105458	42.723	ng	96
52) Acenaphthene	9.998	154	425489	39.741	ng	99
53) 3-Nitroaniline	9.916	138	108314	40.609	ng	100
54) 2,4-Dinitrophenol	10.022	184	37584	31.881	ng	92
55) Dibenzofuran	10.169	168	596110	39.052	ng	98
56) 4-Nitrophenol	10.081	139	69103	43.542	ng	96
57) 2,4-Dinitrotoluene	10.145	165	134631	40.847	ng	97
58) Fluorene	10.516	166	450707	38.364	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.292	232	106720	37.783	ng	99
60) Diethylphthalate	10.381	149	466799	43.716	ng	99
61) 4-Chlorophenyl-phenyle...	10.504	204	232448	39.562	ng	99
62) 4-Nitroaniline	10.528	138	96697	39.469	ng	97
63) Azobenzene	10.663	77	431460	38.969	ng	99
65) 4,6-Dinitro-2-methylph...	10.557	198	48200	32.117	ng	96
66) n-Nitrosodiphenylamine	10.622	169	379520	44.307	ng	99
67) 4-Bromophenyl-phenylether	10.992	248	137974	43.446	ng	97
68) Hexachlorobenzene	11.069	284	139989	40.894	ng	98
69) Atrazine	11.145	200	112914	51.067	ng	99
70) Pentachlorophenol	11.263	266	129625	82.680	ng	99
71) Phenanthrene	11.475	178	569767	39.974	ng	100
72) Anthracene	11.528	178	576813	39.947	ng	100
73) Carbazole	11.680	167	479540	40.531	ng	100
74) Di-n-butylphthalate	12.004	149	568861	51.539	ng	99
75) Fluoranthene	12.669	202	523856	40.959	ng	99
77) Benzidine	12.786	184	195722	35.773	ng	100
78) Pyrene	12.898	202	545878	29.545	ng	99
80) Butylbenzylphthalate	13.504	149	222304	44.044	ng	97
81) Benzo(a)anthracene	14.086	228	565876	39.132	ng	99
82) 3,3'-Dichlorobenzidine	14.045	252	174738	42.194	ng	98
83) Chrysene	14.121	228	534990	41.167	ng	100
84) Bis(2-ethylhexyl)phtha...	14.069	149	330969	43.053	ng	100
85) Di-n-octyl phthalate	14.680	149	600507	42.167	ng	99
87) Indeno(1,2,3-cd)pyrene	17.121	276	518934	28.150	ng	99
88) Benzo(b)fluoranthene	15.157	252	605018	42.428	ng	100
89) Benzo(k)fluoranthene	15.186	252	567409	41.559	ng	100
90) Benzo(a)pyrene	15.533	252	534103	40.352	ng	99
91) Dibenzo(a,h)anthracene	17.133	278	429182	29.070	ng	99
92) Benzo(g,h,i)perylene	17.580	276	375504	25.578	ng	99

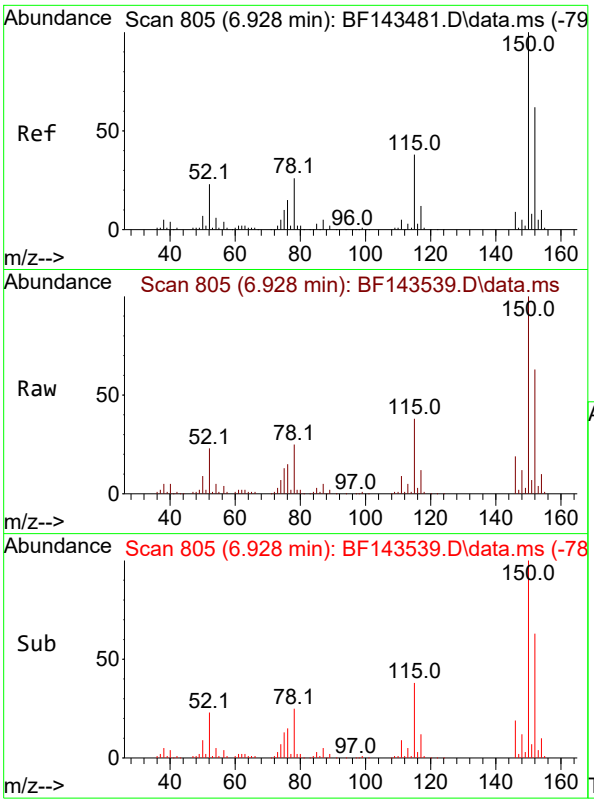
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
Data File : BF143539.D
Acq On : 21 Aug 2025 19:32
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Quant Time: Aug 22 01:02:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 21 06:12:21 2025
Response via : Initial Calibration



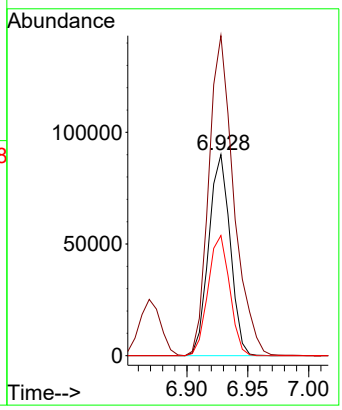


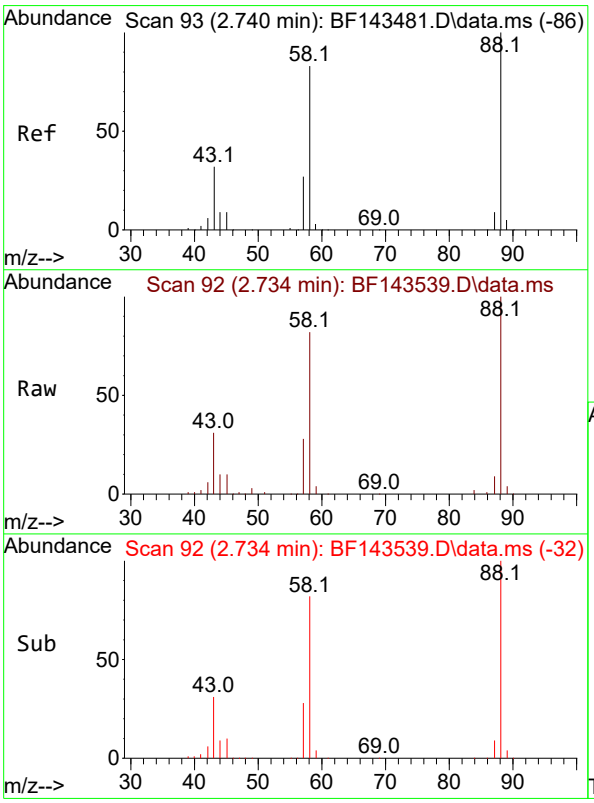
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.928 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:152 Resp: 110484

Ion	Ratio	Lower	Upper
152	100		
150	159.1	128.9	193.3
115	59.8	49.2	73.8

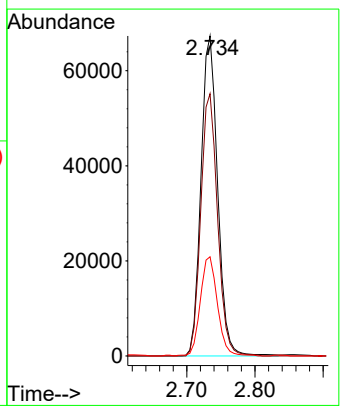


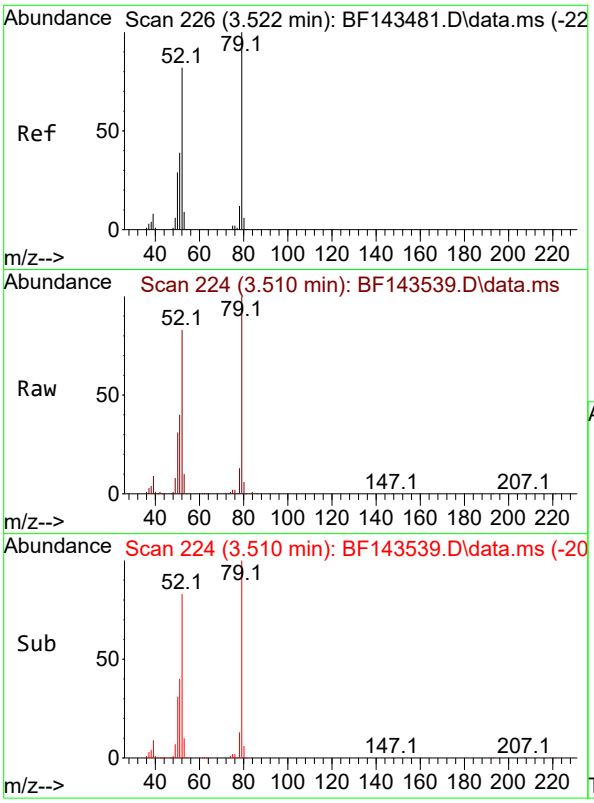


#2
1,4-Dioxane
Concen: 39.072 ng
RT: 2.734 min Scan# 92
Delta R.T. 0.000 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Tgt Ion: 88 Resp: 114523

Ion	Ratio	Lower	Upper
88	100		
58	82.3	66.7	100.1
43	31.8	25.8	38.8



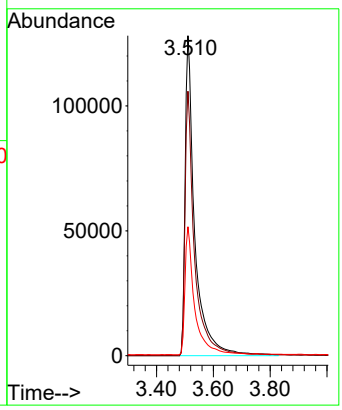


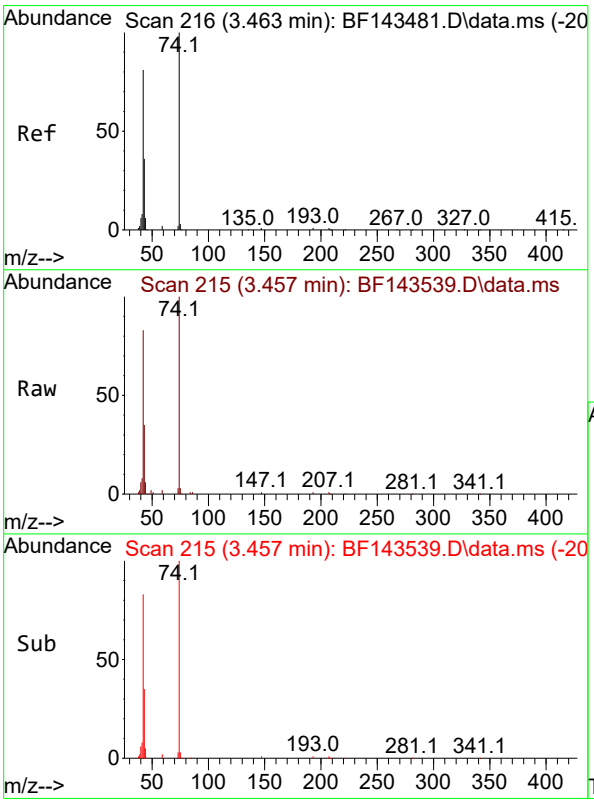
#3
Pyridine
Concen: 39.009 ng
RT: 3.510 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 79 Resp: 304538

Ion	Ratio	Lower	Upper
79	100		
52	82.7	65.6	98.4
51	40.3	31.2	46.8

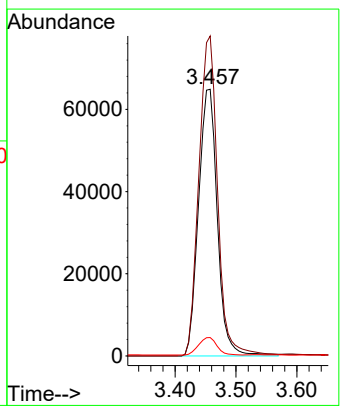


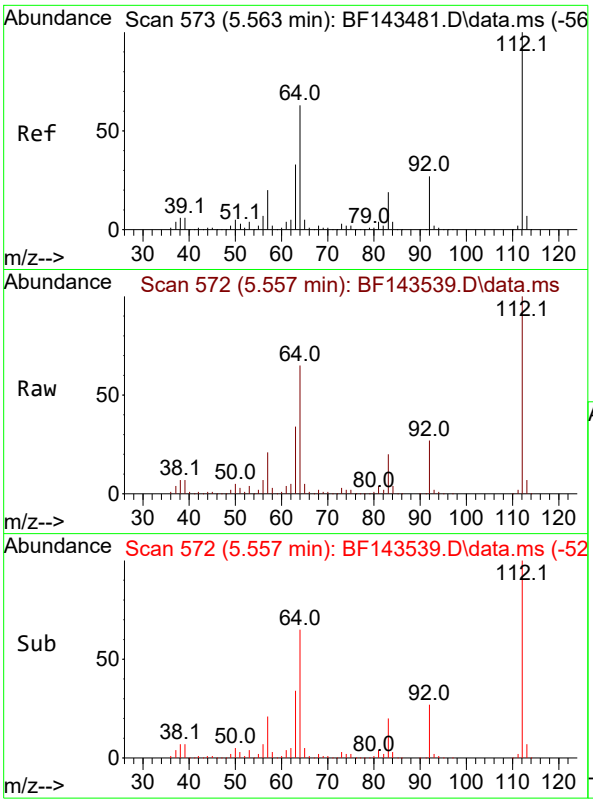


#4
n-Nitrosodimethylamine
Concen: 39.860 ng
RT: 3.457 min Scan# 215
Delta R.T. -0.018 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Tgt Ion: 42 Resp: 139889

Ion	Ratio	Lower	Upper
42	100		
74	120.0	98.6	148.0
44	6.9	5.8	8.8



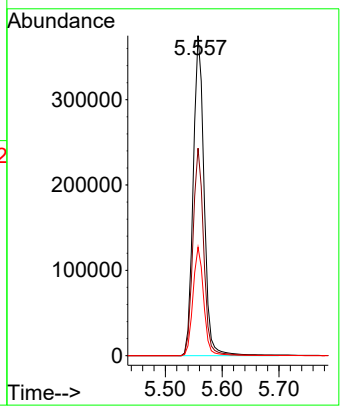


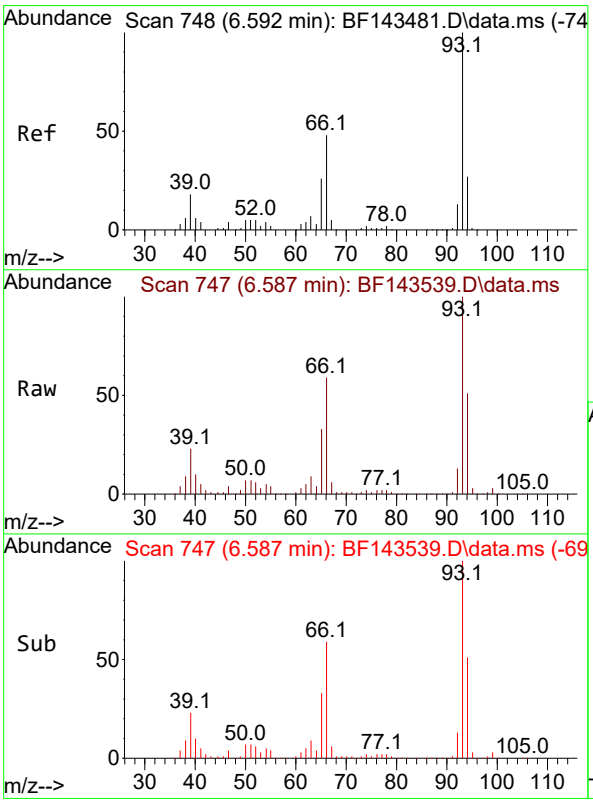
#5
2-Fluorophenol
Concen: 79.470 ng
RT: 5.557 min Scan# 5
Delta R.T. -0.006 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:112 Resp: 502829

Ion	Ratio	Lower	Upper
112	100		
64	64.8	50.4	75.6
63	33.9	26.4	39.6

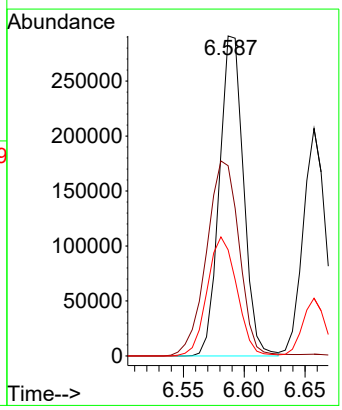


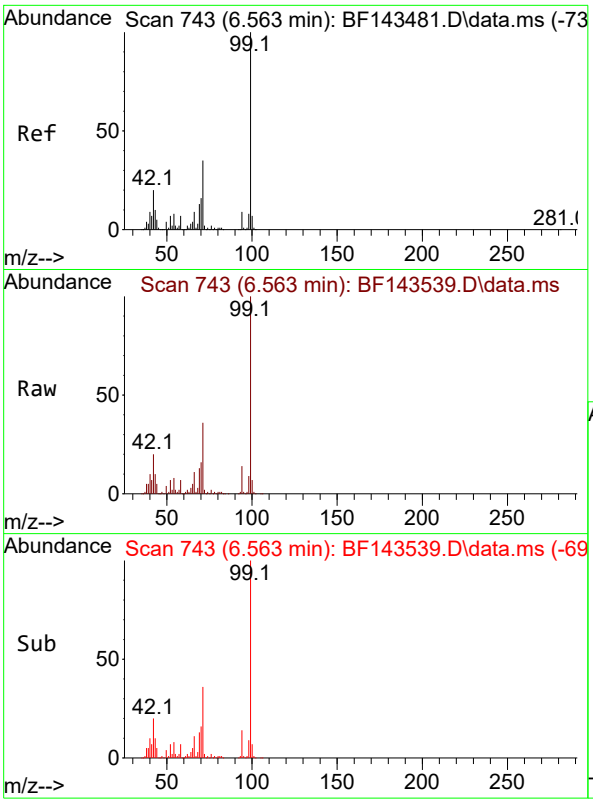


#6
Aniline
Concen: 38.435 ng
RT: 6.587 min Scan# 747
Delta R.T. -0.006 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Tgt Ion: 93 Resp: 401267

Ion	Ratio	Lower	Upper
93	100		
66	59.5	38.9	58.3#
65	33.1	20.6	30.8#



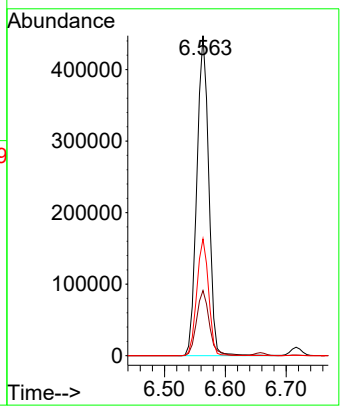


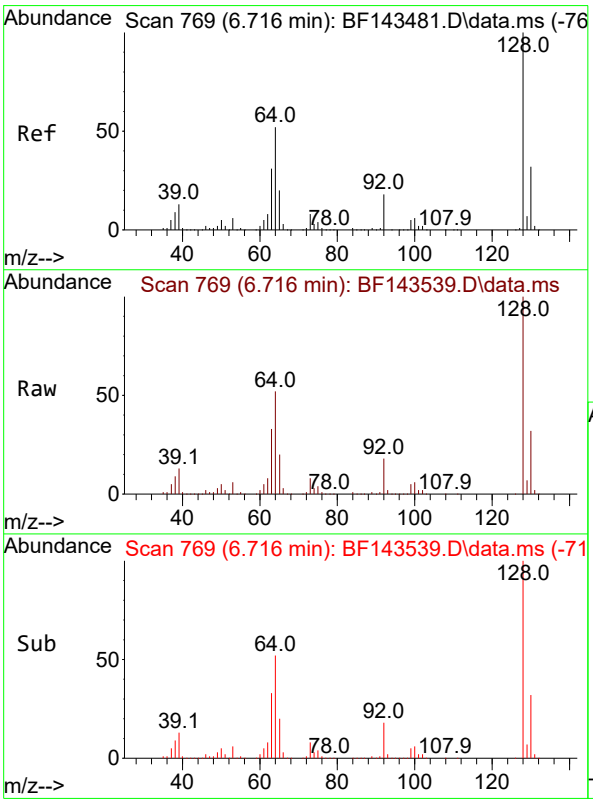
#7
Phenol-d6
Concen: 77.784 ng
RT: 6.563 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 99 Resp: 607545

Ion	Ratio	Lower	Upper
99	100		
42	20.3	16.3	24.5
71	36.5	28.2	42.2

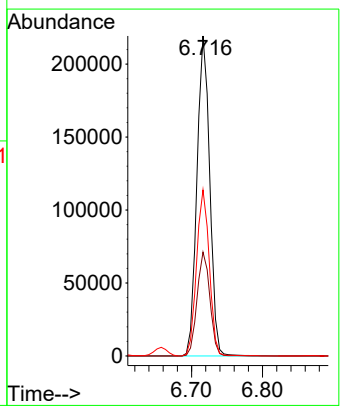


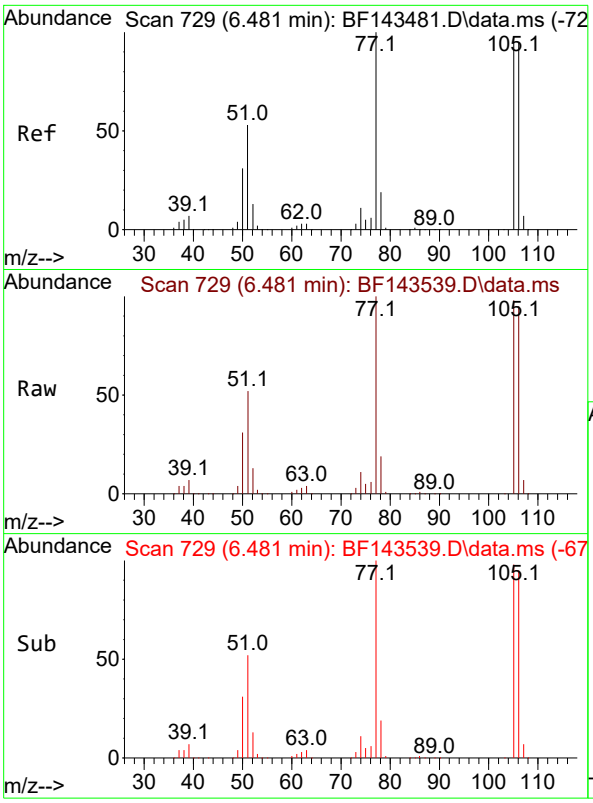


#8
2-Chlorophenol
Concen: 39.418 ng
RT: 6.716 min Scan# 769
Delta R.T. -0.006 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Tgt Ion:128 Resp: 275473

Ion	Ratio	Lower	Upper
128	100		
130	32.5	12.4	52.4
64	51.9	31.6	71.6



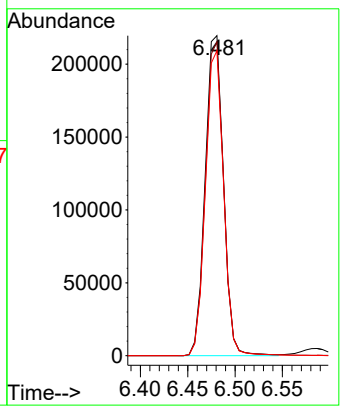


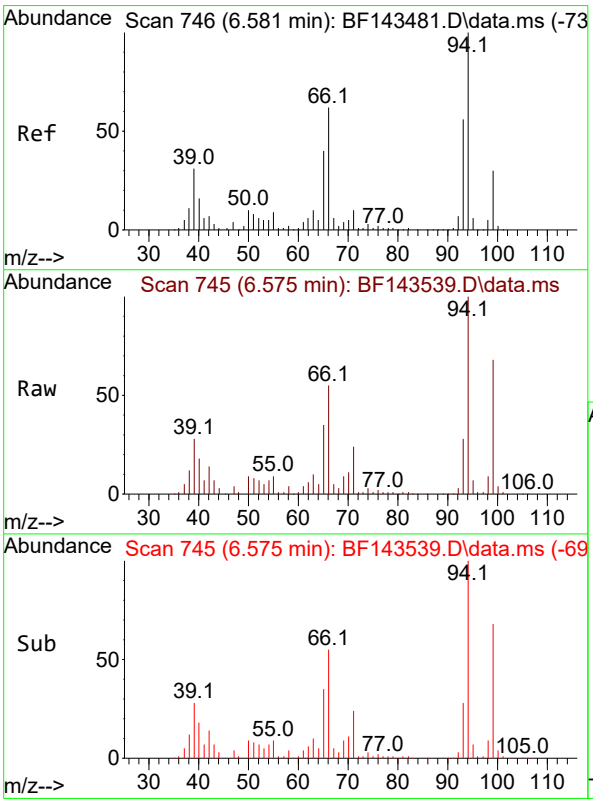
#9
Benzaldehyde
Concen: 46.616 ng
RT: 6.481 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 77 Resp: 294783

Ion	Ratio	Lower	Upper
77	100		
105	98.0	78.1	118.1
106	95.3	74.9	114.9

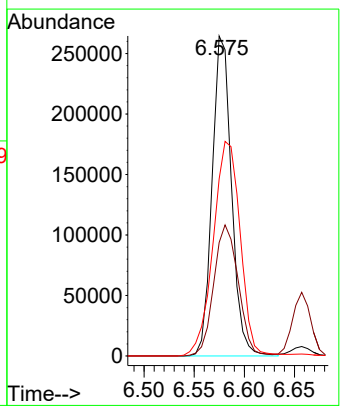


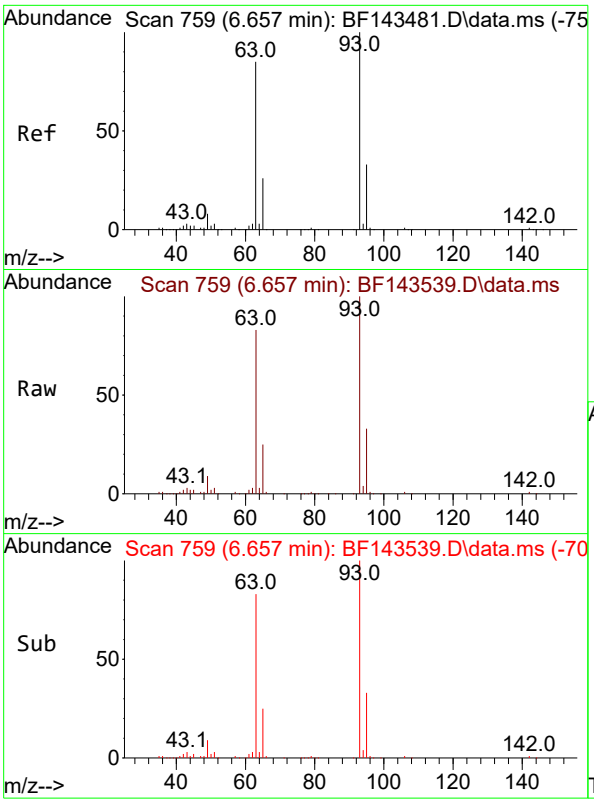


#10
Phenol
Concen: 39.425 ng
RT: 6.575 min Scan# 745
Delta R.T. -0.012 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Tgt Ion: 94 Resp: 354741

Ion	Ratio	Lower	Upper
94	100		
65	35.4	19.5	59.5
66	55.3	42.5	82.5



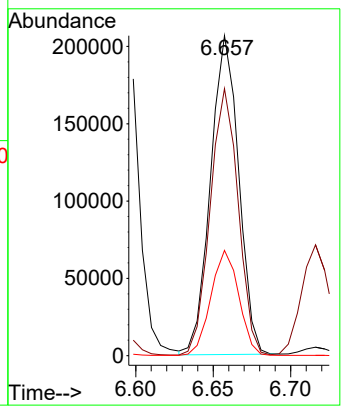


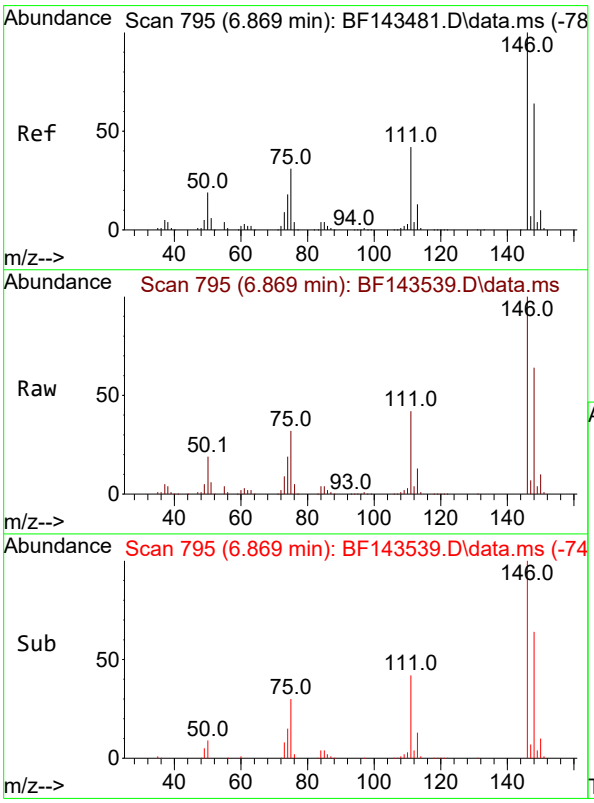
#11
bis(2-Chloroethyl)ether
Concen: 38.774 ng
RT: 6.657 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 93 Resp: 260716

Ion	Ratio	Lower	Upper
93	100		
63	83.5	63.6	103.6
95	32.9	12.8	52.8

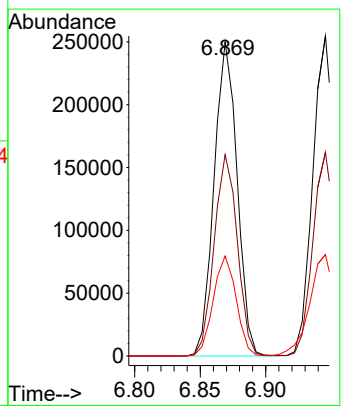


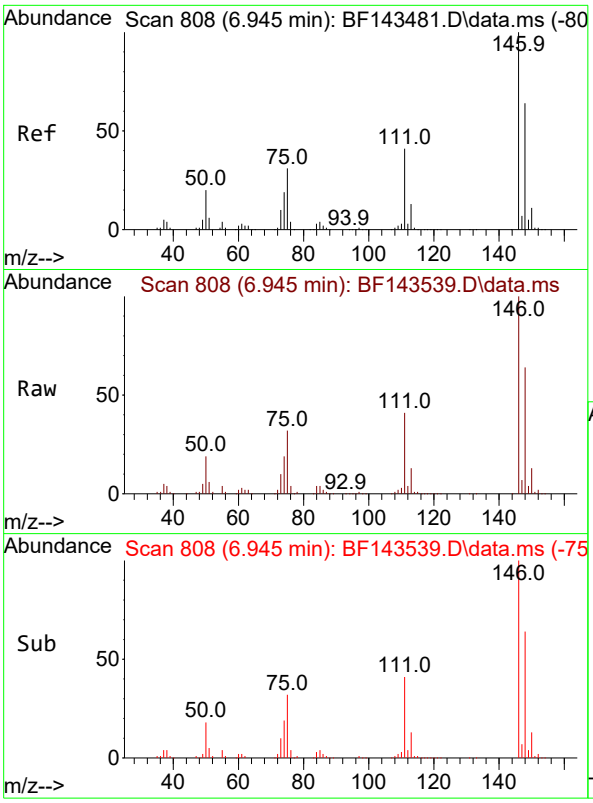


#12
1,3-Dichlorobenzene
Concen: 38.875 ng
RT: 6.869 min Scan# 795
Delta R.T. -0.006 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Tgt Ion:146 Resp: 305256

Ion	Ratio	Lower	Upper
146	100		
148	64.1	51.3	76.9
75	31.9	24.7	37.1



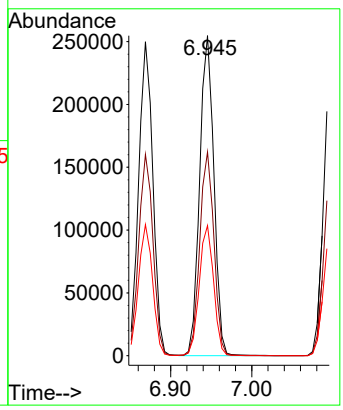


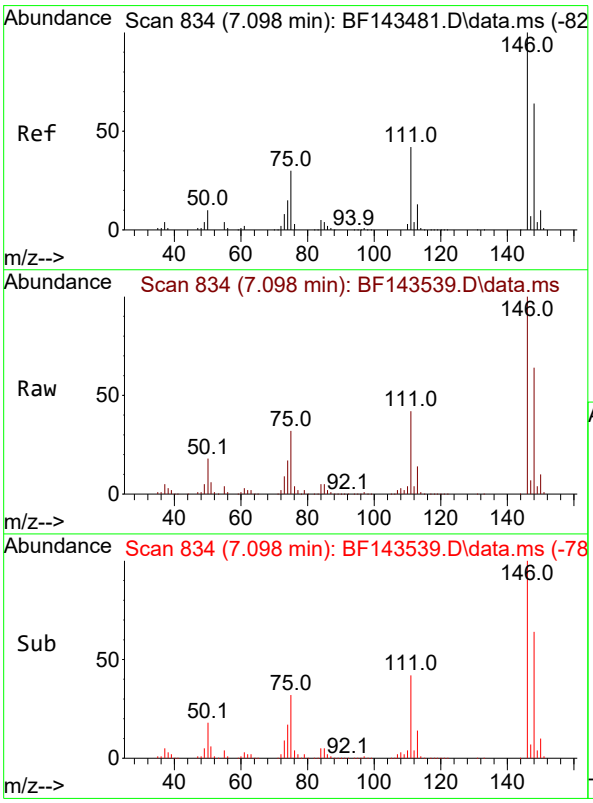
#13
1,4-Dichlorobenzene
Concen: 39.416 ng
RT: 6.945 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:146 Resp: 310463

Ion	Ratio	Lower	Upper
146	100		
148	63.7	51.5	77.3
111	40.7	32.6	49.0

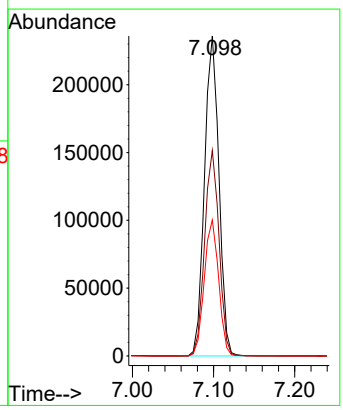


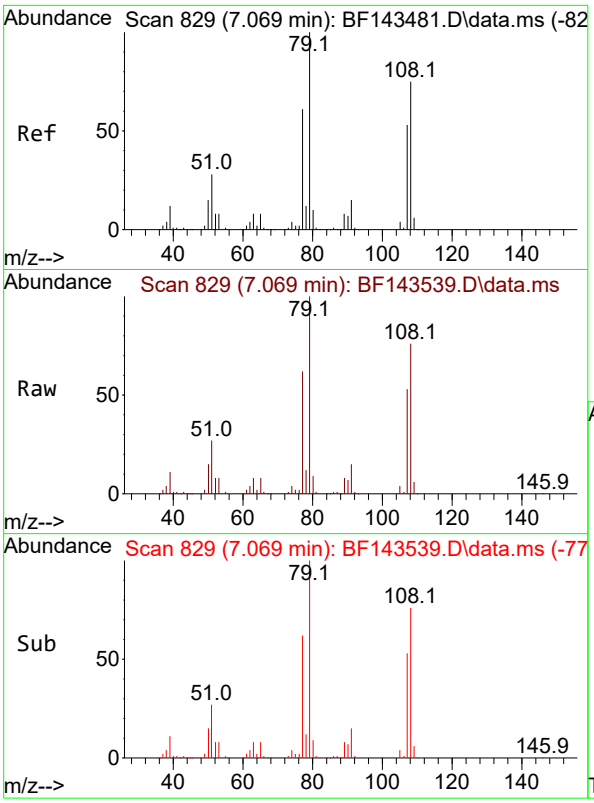


#14
1,2-Dichlorobenzene
Concen: 39.005 ng
RT: 7.098 min Scan# 834
Delta R.T. 0.000 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Tgt Ion:146 Resp: 290881

Ion	Ratio	Lower	Upper
146	100		
148	64.2	51.0	76.6
111	42.5	34.0	51.0



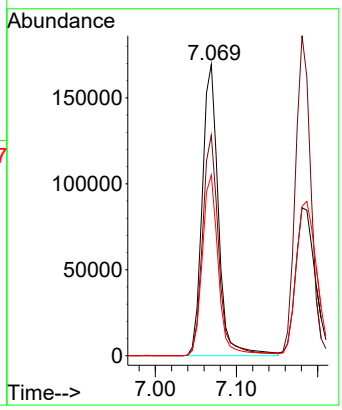


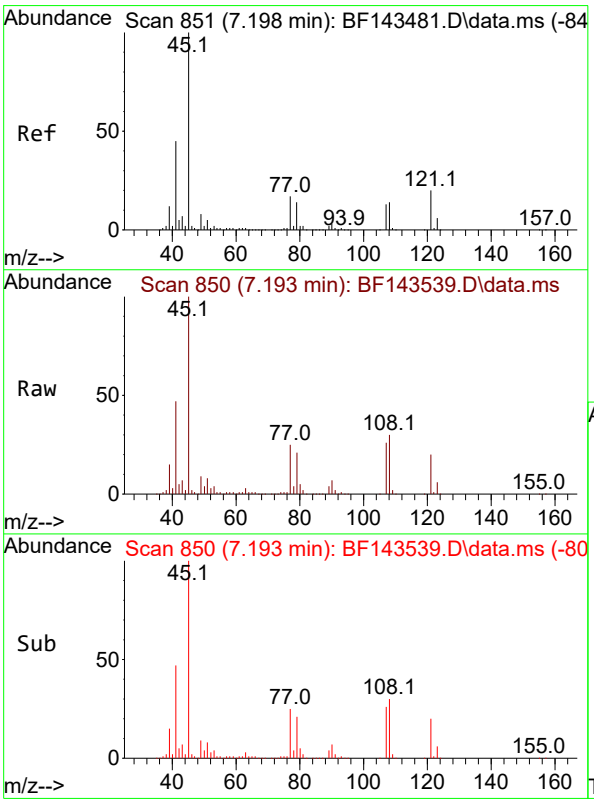
#15
Benzyl Alcohol
Concen: 39.937 ng
RT: 7.069 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 79 Resp: 233545

Ion	Ratio	Lower	Upper
79	100		
108	75.7	59.8	89.6
77	62.0	49.0	73.4

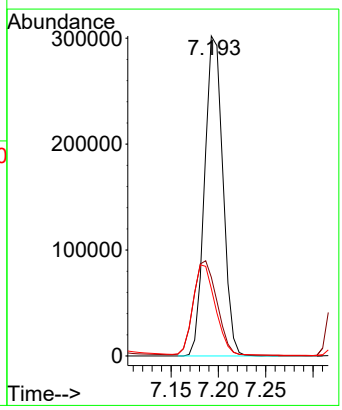


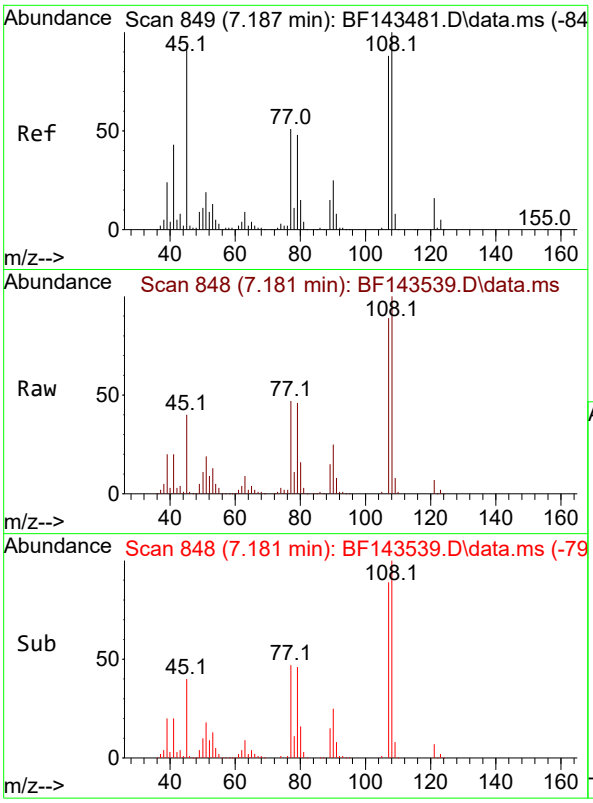


#16
2,2'-oxybis(1-Chloropropane)
Concen: 37.707 ng
RT: 7.193 min Scan# 850
Delta R.T. -0.006 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Tgt Ion: 45 Resp: 405626

Ion	Ratio	Lower	Upper
45	100		
77	24.6	0.0	37.9
79	21.0	0.0	34.7



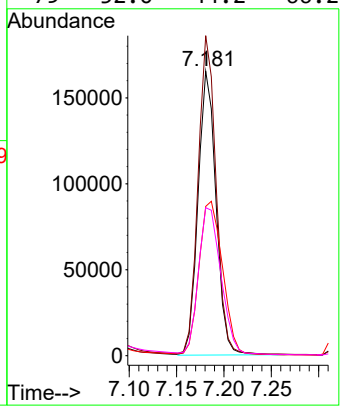


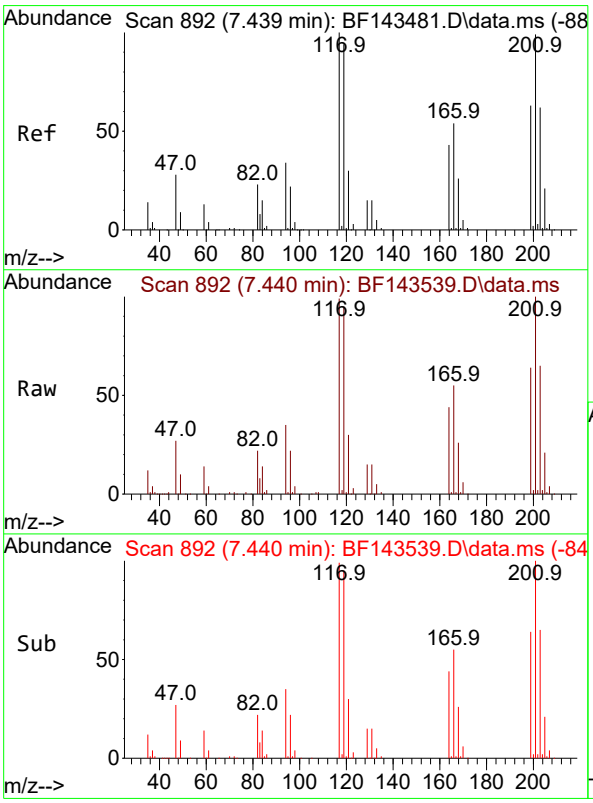
#17
2-Methylphenol
Concen: 38.978 ng
RT: 7.181 min Scan# 84
Delta R.T. -0.006 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:107 Resp: 218625

Ion	Ratio	Lower	Upper
107	100		
108	112.5	91.1	136.7
77	52.5	46.2	69.4
79	52.0	44.2	66.2

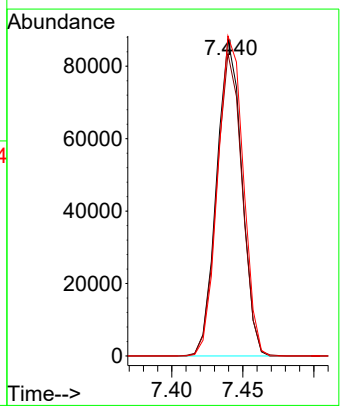


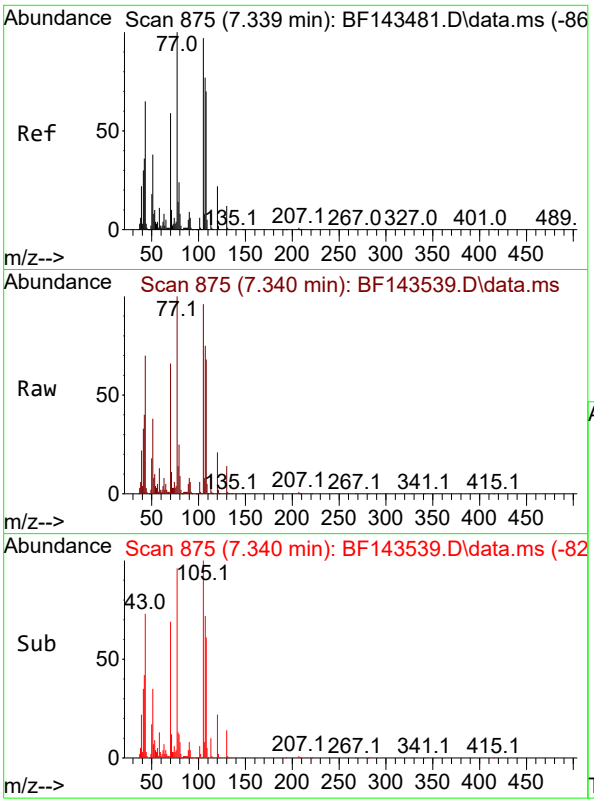


#18
Hexachloroethane
Concen: 40.177 ng
RT: 7.440 min Scan# 892
Delta R.T. -0.006 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Tgt Ion:117 Resp: 107596

Ion	Ratio	Lower	Upper
117	100		
119	95.4	75.4	113.0
201	101.0	79.0	118.4



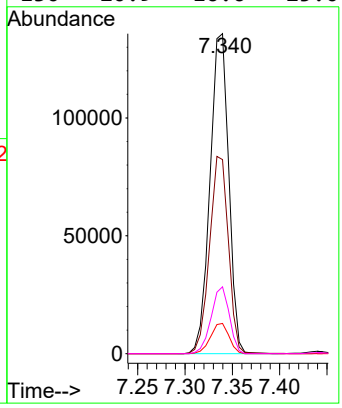


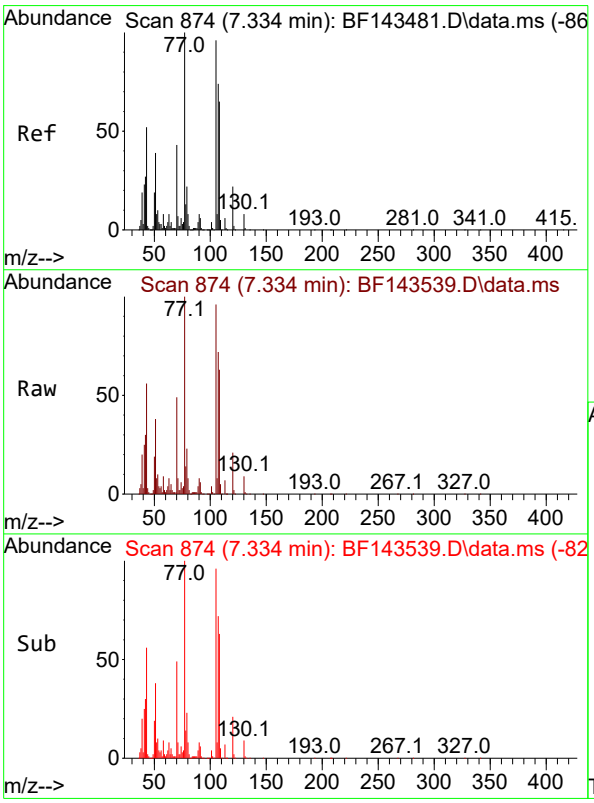
#19
n-Nitroso-di-n-propylamine
Concen: 39.035 ng
RT: 7.340 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 70 Resp: 186353

Ion	Ratio	Lower	Upper
70	100		
42	60.6	49.3	73.9
101	9.5	7.8	11.8
130	20.9	16.6	25.0

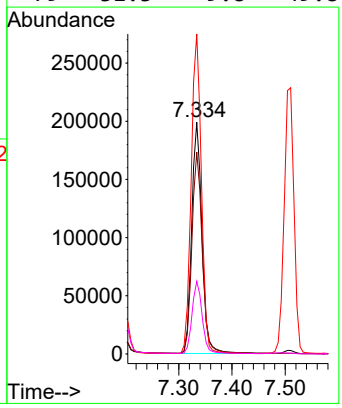


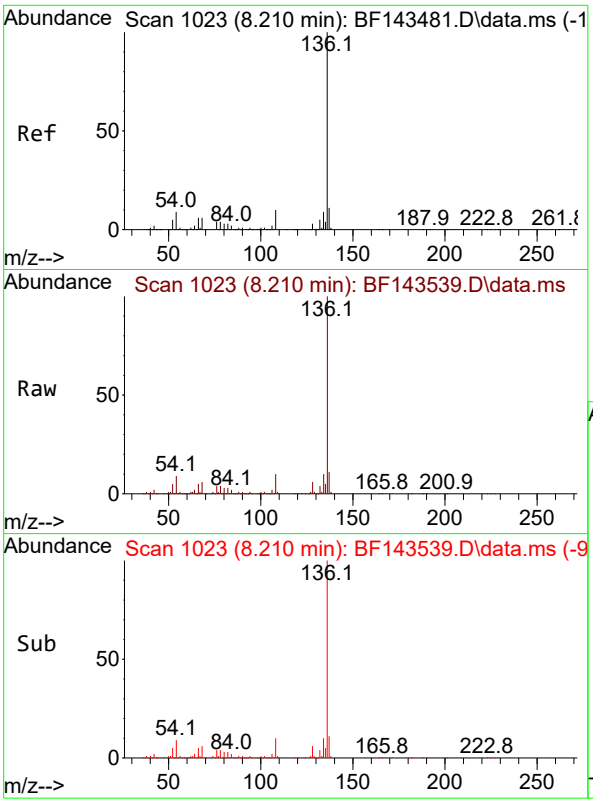


#20
3+4-Methylphenols
Concen: 39.911 ng
RT: 7.334 min Scan# 874
Delta R.T. -0.006 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Tgt Ion:107 Resp: 267236

Ion	Ratio	Lower	Upper
107	100		
108	87.1	68.4	108.4
77	138.1	116.1	156.1
79	31.3	9.8	49.8



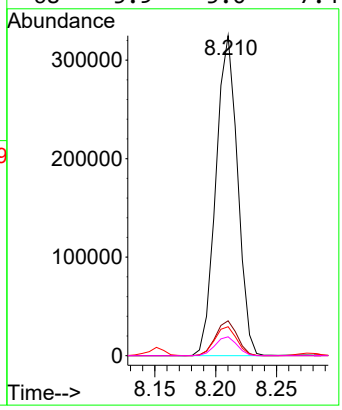


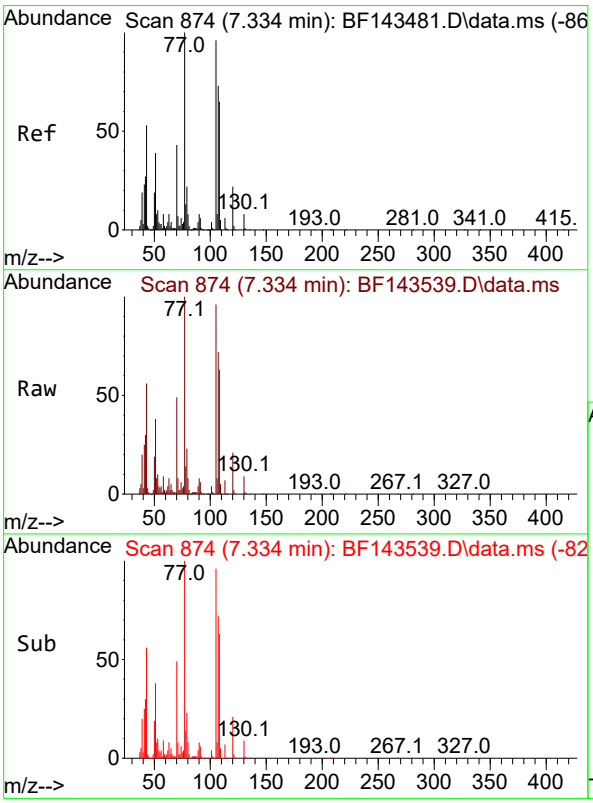
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.210 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:136 Resp: 402251

Ion	Ratio	Lower	Upper
136	100		
137	10.9	9.0	13.4
54	9.1	7.4	11.2
68	5.9	5.0	7.4

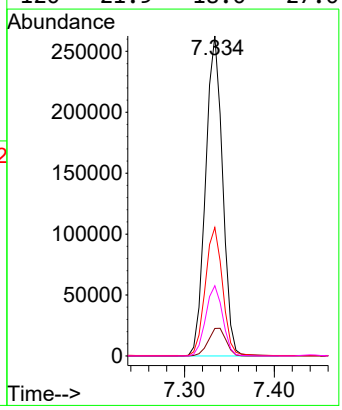


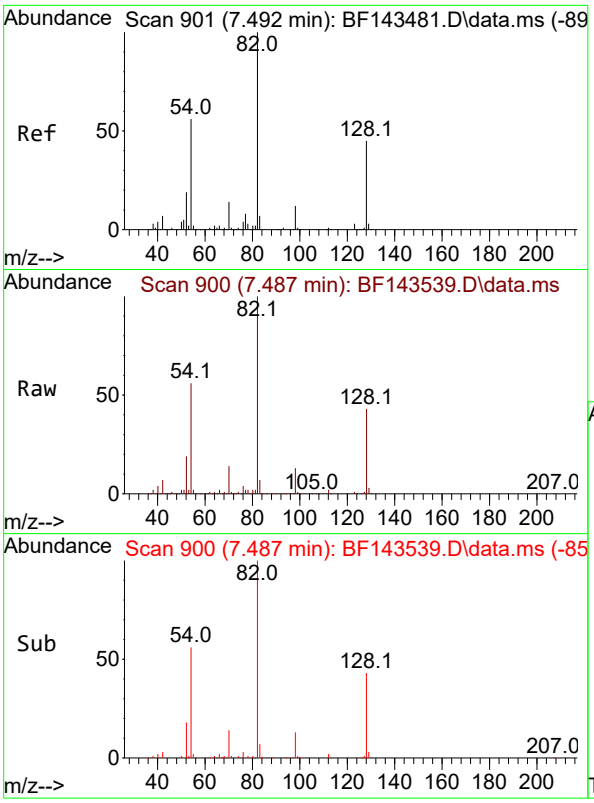


#22
Acetophenone
Concen: 39.831 ng
RT: 7.334 min Scan# 874
Delta R.T. -0.006 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Tgt Ion:105 Resp: 346144

Ion	Ratio	Lower	Upper
105	100		
71	8.6	5.9	8.9
51	40.1	32.5	48.7
120	21.9	18.0	27.0



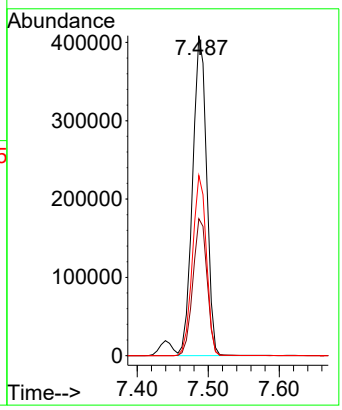


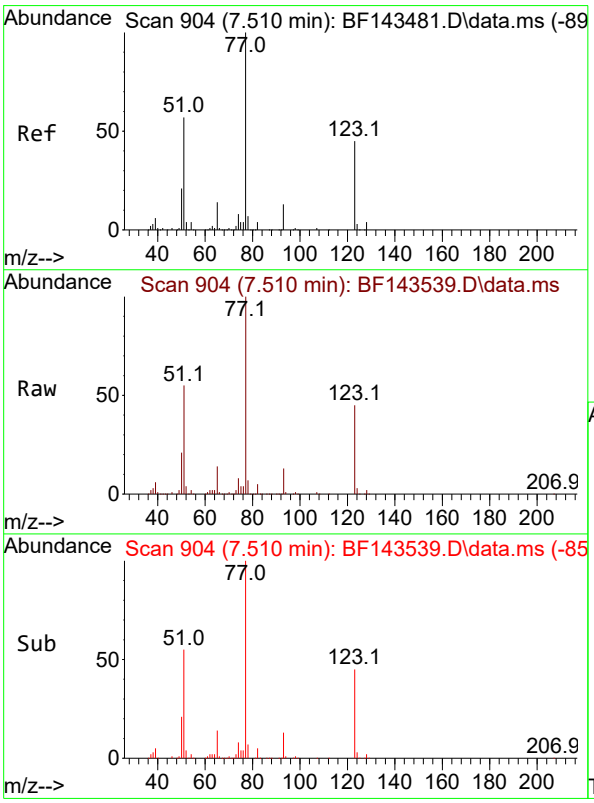
#23
Nitrobenzene-d5
Concen: 81.337 ng
RT: 7.487 min Scan# 9
Delta R.T. -0.012 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 82 Resp: 560673

Ion	Ratio	Lower	Upper
82	100		
128	42.8	35.5	53.3
54	56.3	44.3	66.5

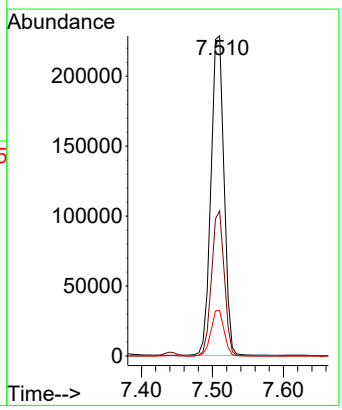


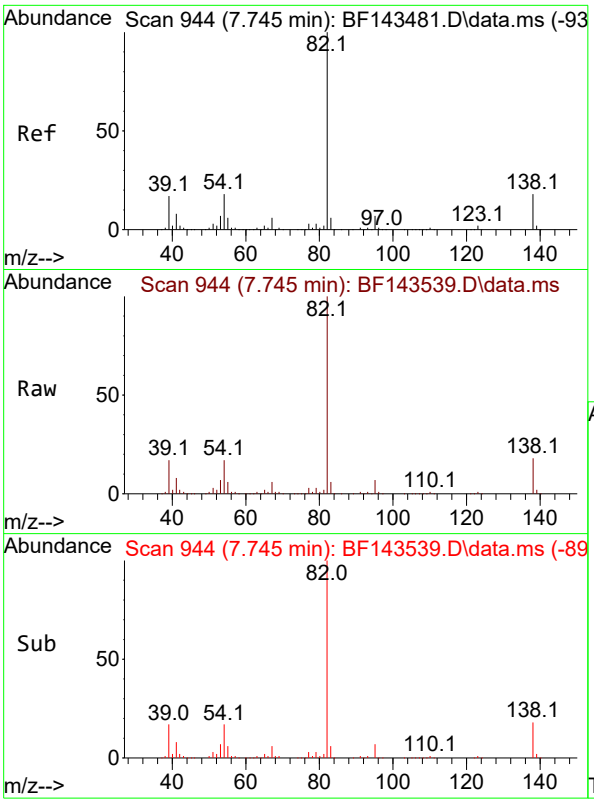


#24
Nitrobenzene
Concen: 41.188 ng
RT: 7.510 min Scan# 904
Delta R.T. -0.006 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Tgt Ion: 77 Resp: 292216

Ion	Ratio	Lower	Upper
77	100		
123	45.3	36.1	54.1
65	14.2	11.0	16.6



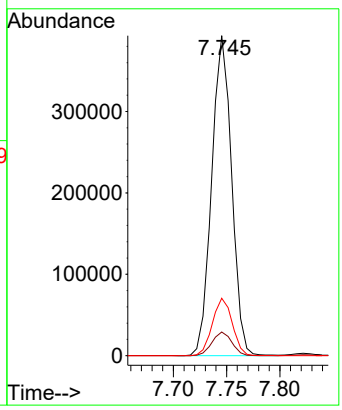


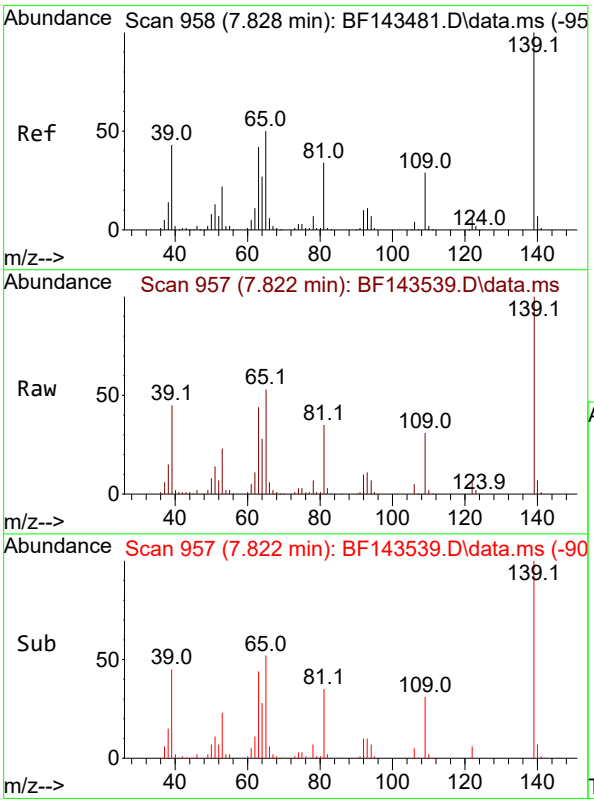
#25
Isophorone
Concen: 40.481 ng
RT: 7.745 min Scan# 94
Delta R.T. -0.012 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 82 Resp: 511518

Ion	Ratio	Lower	Upper
82	100		
95	7.4	5.8	8.8
138	18.0	14.2	21.4

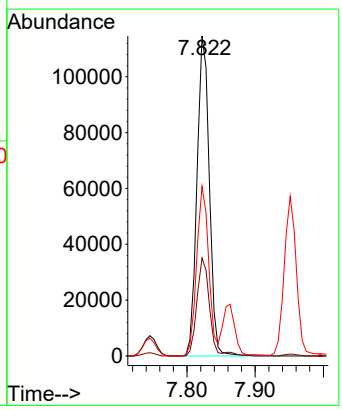


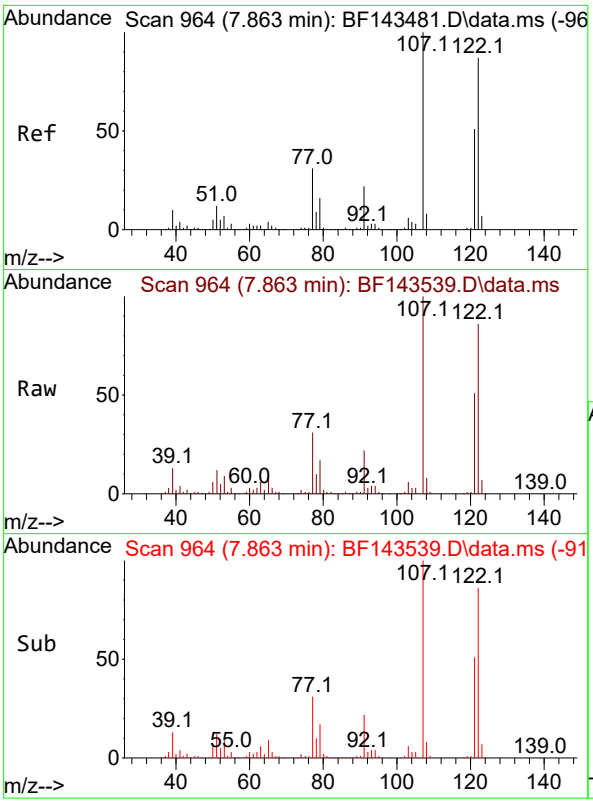


#26
2-Nitrophenol
Concen: 41.538 ng
RT: 7.822 min Scan# 957
Delta R.T. -0.006 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Tgt Ion:139 Resp: 144354

Ion	Ratio	Lower	Upper
139	100		
109	30.6	23.0	34.6
65	53.0	40.3	60.5



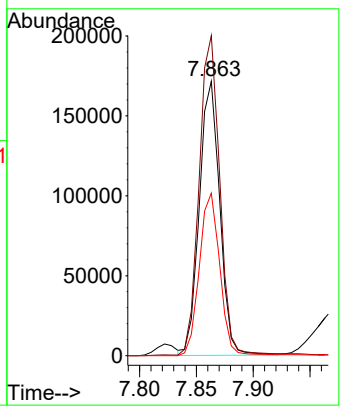


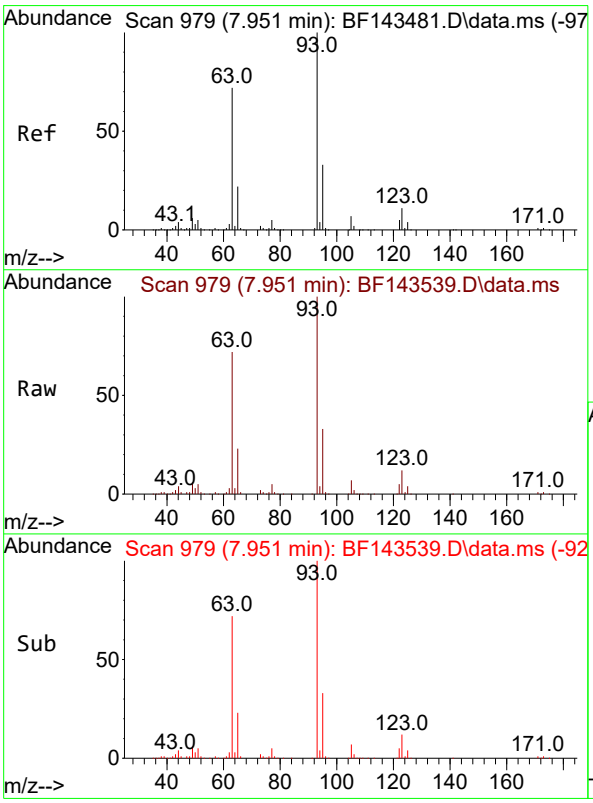
#27
2,4-Dimethylphenol
Concen: 39.611 ng
RT: 7.863 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:122 Resp: 214593

Ion	Ratio	Lower	Upper
122	100		
107	116.6	91.5	137.3
121	59.3	47.0	70.4

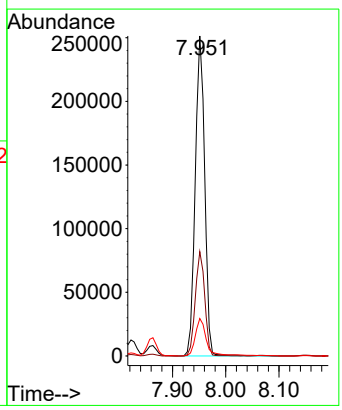


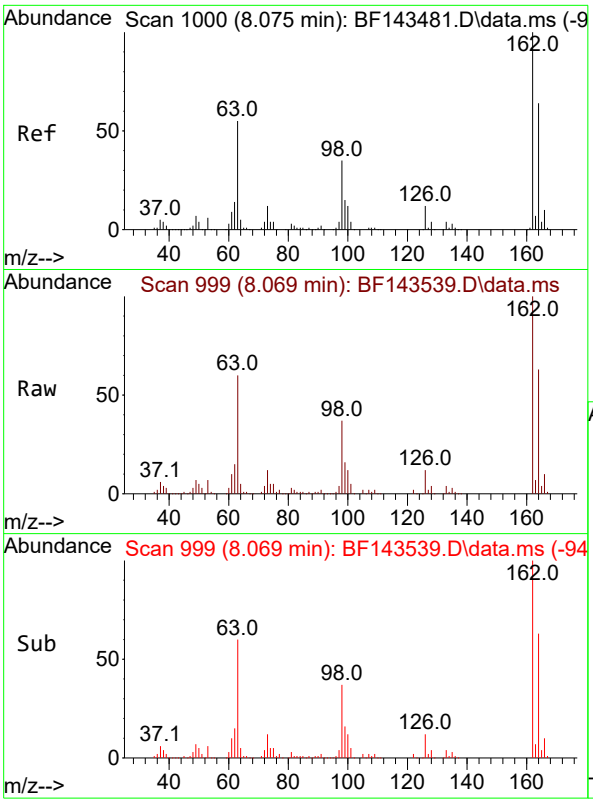


#28
bis(2-Chloroethoxy)methane
Concen: 39.904 ng
RT: 7.951 min Scan# 979
Delta R.T. -0.006 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Tgt Ion: 93 Resp: 309875

Ion	Ratio	Lower	Upper
93	100		
95	32.6	26.0	39.0
123	11.7	9.1	13.7



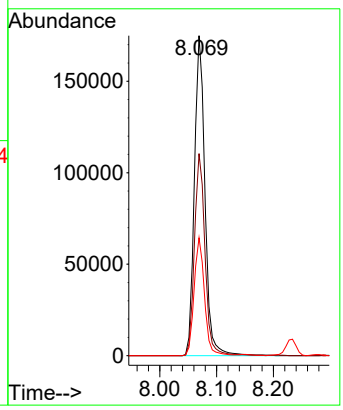


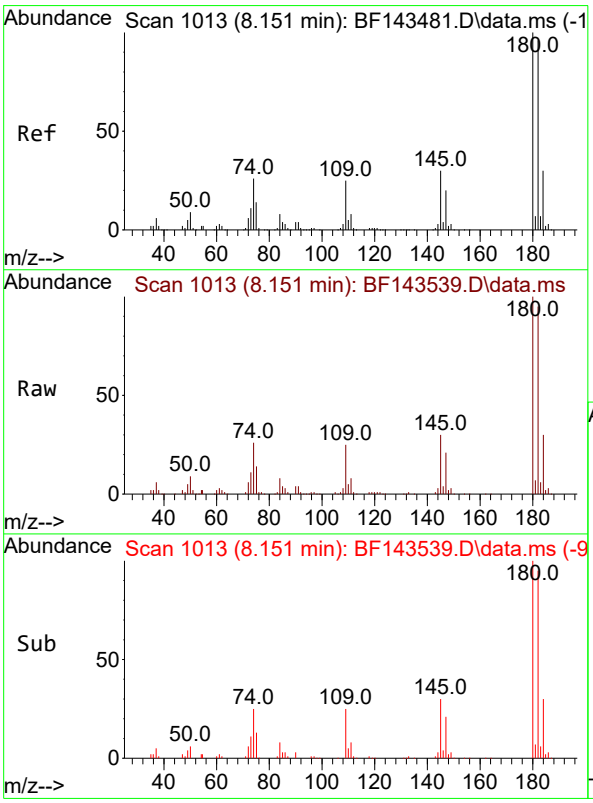
#29
2,4-Dichlorophenol
Concen: 39.400 ng
RT: 8.069 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:162 Resp: 227965

Ion	Ratio	Lower	Upper
162	100		
164	63.1	43.5	83.5
98	36.9	15.1	55.1

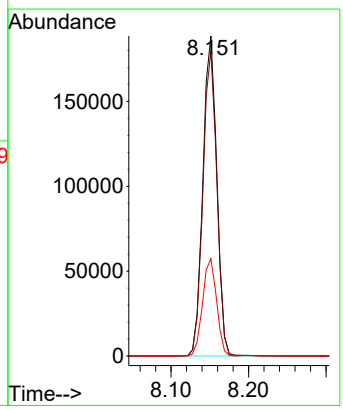


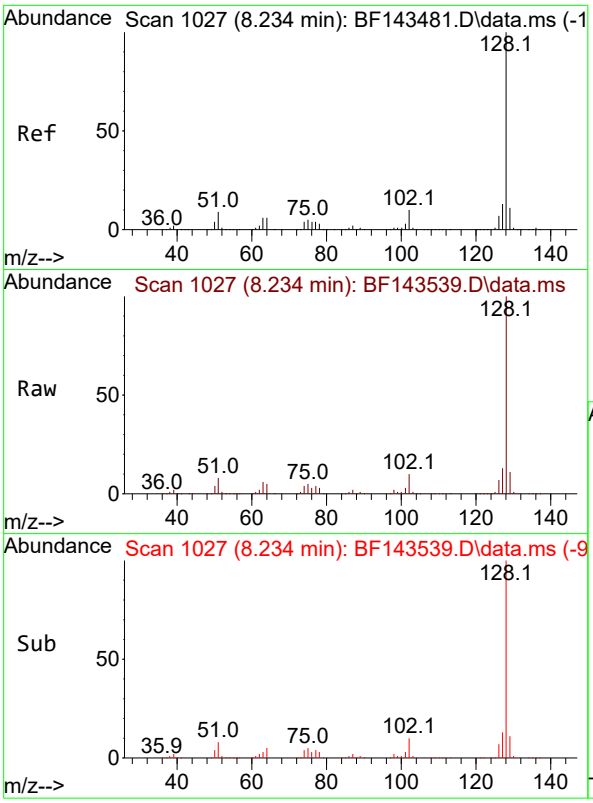


#30
1,2,4-Trichlorobenzene
Concen: 39.508 ng
RT: 8.151 min Scan# 1013
Delta R.T. 0.000 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Tgt Ion:180 Resp: 235019

Ion	Ratio	Lower	Upper
180	100		
182	95.3	76.6	114.8
145	30.4	24.3	36.5



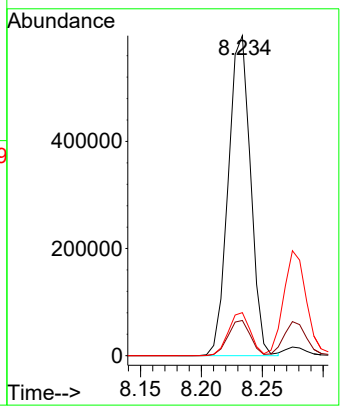


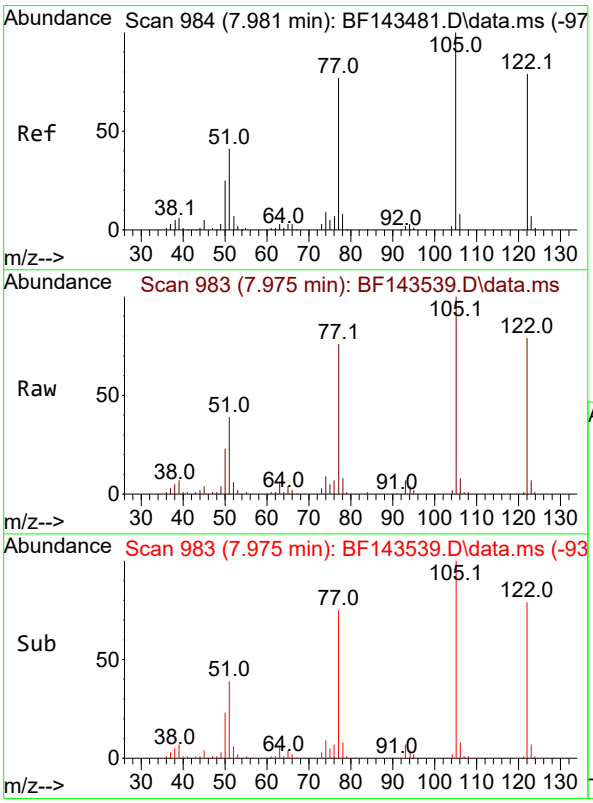
#31
Naphthalene
Concen: 39.258 ng
RT: 8.234 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:128 Resp: 758151

Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.8	13.2
127	13.4	10.6	16.0

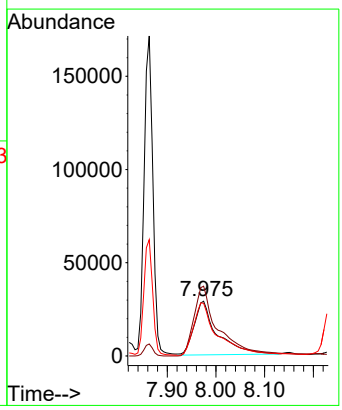


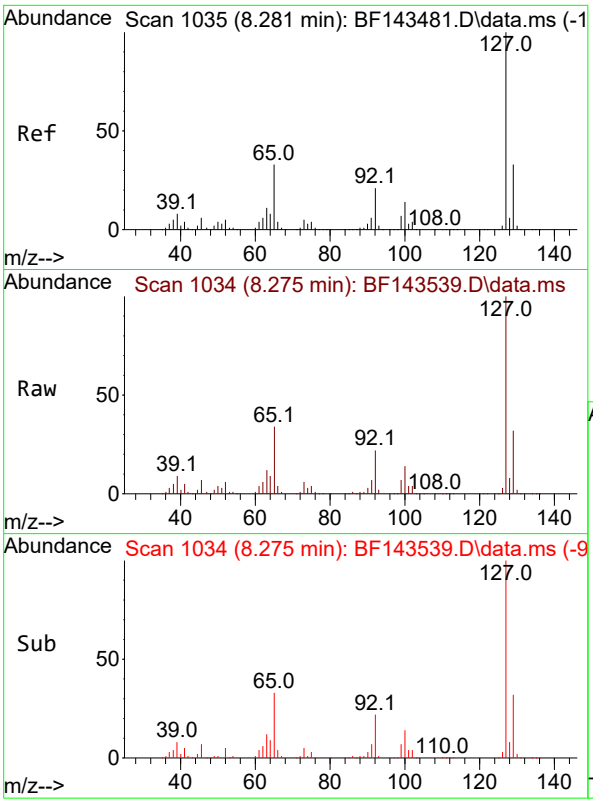


#32
Benzoic acid
Concen: 32.943 ng
RT: 7.975 min Scan# 983
Delta R.T. -0.035 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Tgt Ion:122 Resp: 95321

Ion	Ratio	Lower	Upper
122	100		
105	127.3	104.7	144.7
77	96.2	77.3	117.3



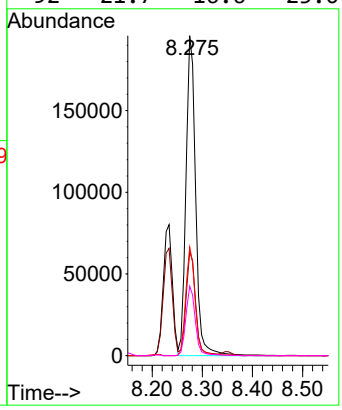


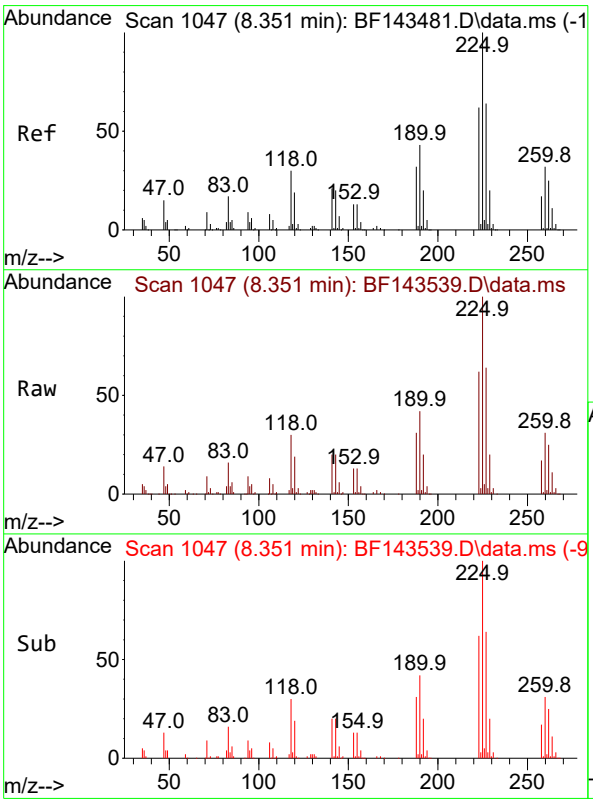
#33
4-Chloroaniline
Concen: 38.570 ng
RT: 8.275 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:127 Resp: 264368

Ion	Ratio	Lower	Upper
127	100		
129	32.5	26.1	39.1
65	34.0	26.2	39.2
92	21.7	16.6	25.0

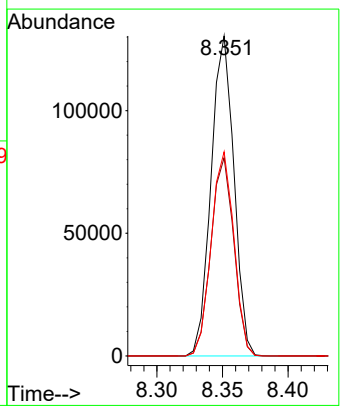


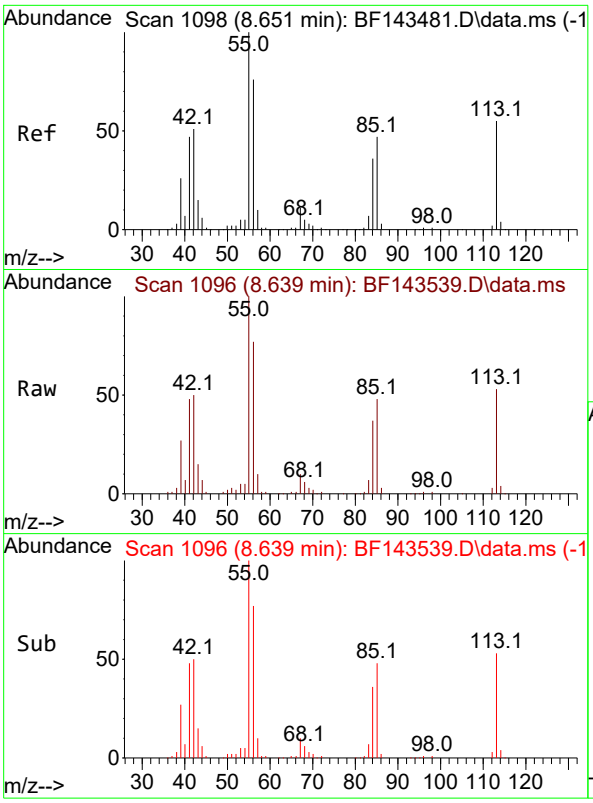


#34
Hexachlorobutadiene
Concen: 40.705 ng
RT: 8.351 min Scan# 1047
Delta R.T. 0.000 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Tgt Ion:225 Resp: 157980

Ion	Ratio	Lower	Upper
225	100		
223	61.9	49.9	74.9
227	63.8	50.9	76.3



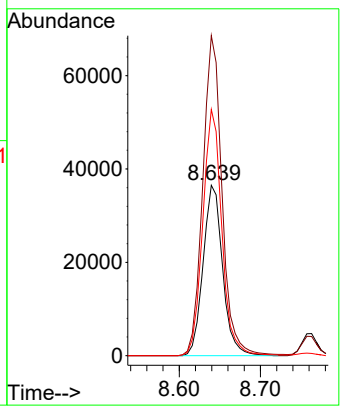


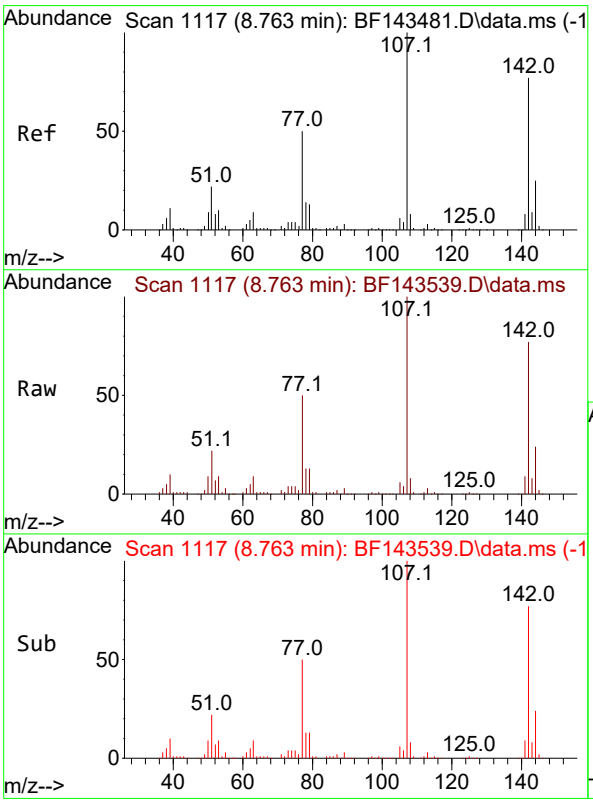
#35
Caprolactam
Concen: 43.789 ng
RT: 8.639 min Scan# 1
Delta R.T. -0.035 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:113 Resp: 60796

Ion	Ratio	Lower	Upper
113	100		
55	187.8	162.8	202.8
56	144.5	118.1	158.1

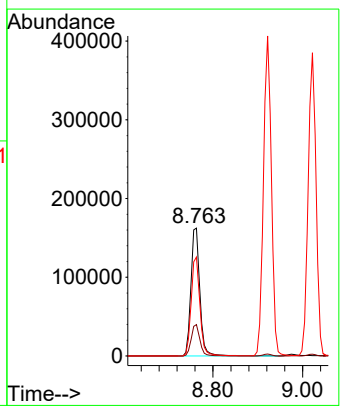


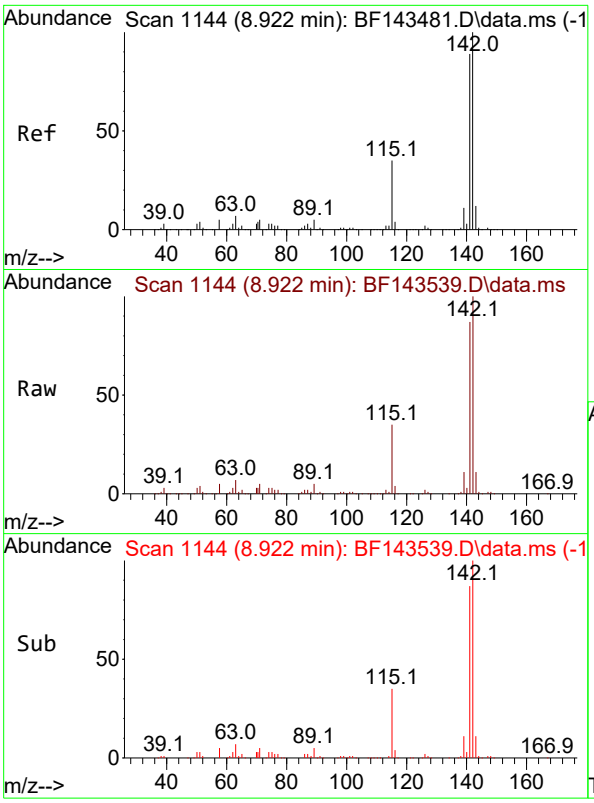


#36
4-Chloro-3-methylphenol
Concen: 38.769 ng
RT: 8.763 min Scan# 1117
Delta R.T. -0.006 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Tgt Ion:107 Resp: 224793

Ion	Ratio	Lower	Upper
107	100		
144	24.5	19.9	29.9
142	77.4	61.8	92.8



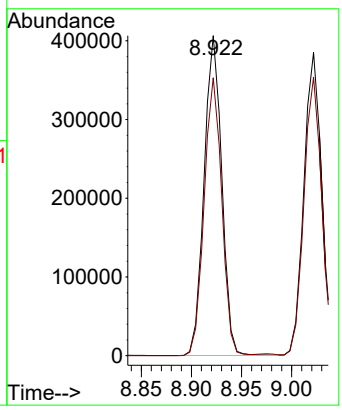


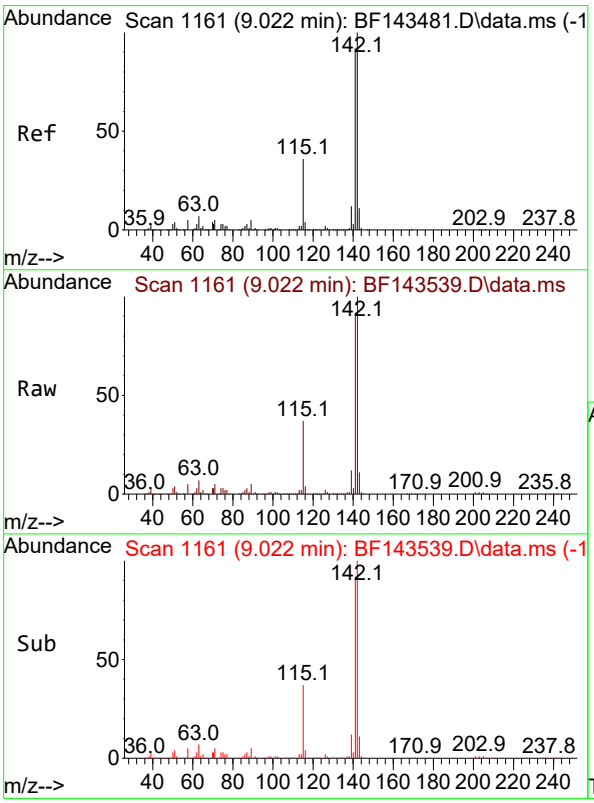
#37
2-Methylnaphthalene
Concen: 38.680 ng
RT: 8.922 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:142 Resp: 498908

Ion	Ratio	Lower	Upper
142	100		
141	86.9	71.0	106.4

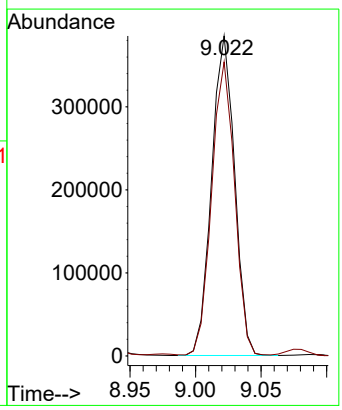


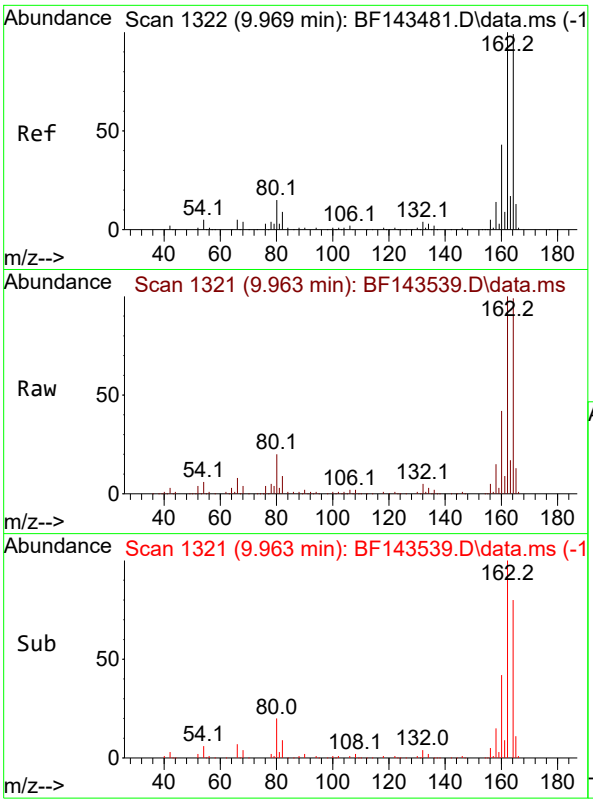


#38
1-Methylnaphthalene
Concen: 38.013 ng
RT: 9.022 min Scan# 1161
Delta R.T. -0.006 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Tgt Ion:142 Resp: 468992

Ion	Ratio	Lower	Upper
142	100		
141	91.9	73.3	109.9



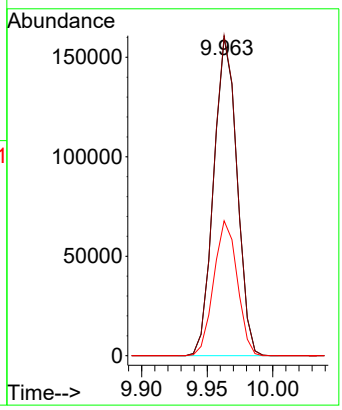


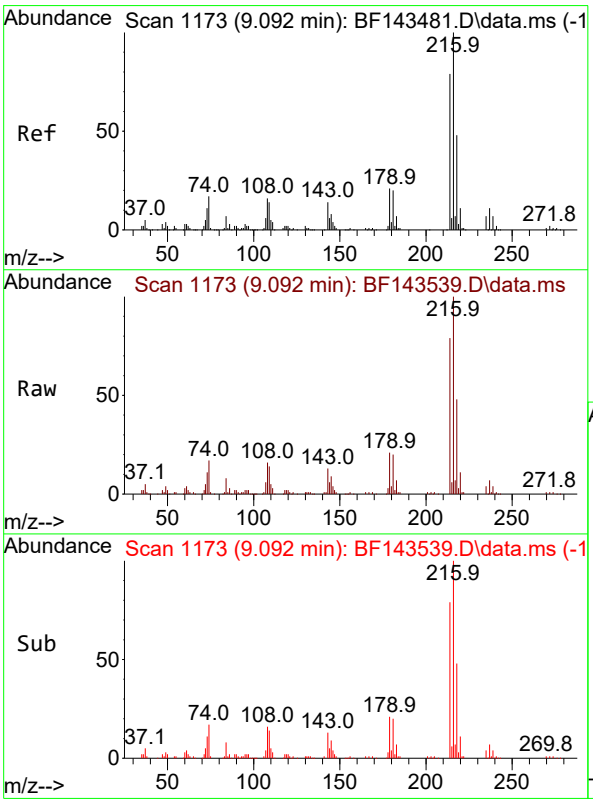
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.963 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:164 Resp: 197751

Ion	Ratio	Lower	Upper
164	100		
162	100.7	80.5	120.7
160	42.5	34.3	51.5

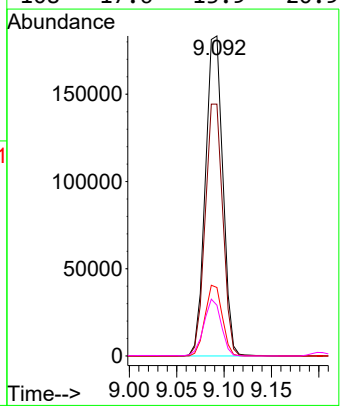


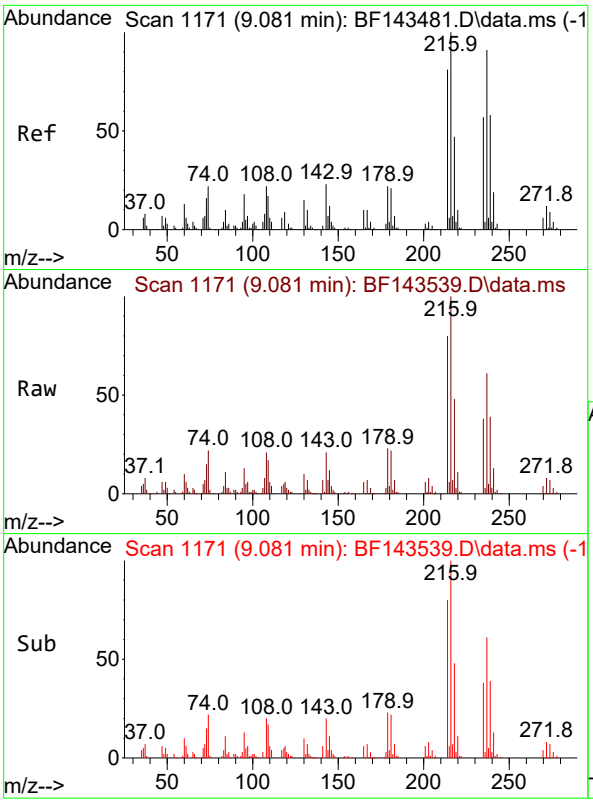


#40
1,2,4,5-Tetrachlorobenzene
Concen: 41.583 ng
RT: 9.092 min Scan# 1173
Delta R.T. 0.000 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Tgt Ion:216 Resp: 235213

Ion	Ratio	Lower	Upper
216	100		
214	79.0	63.4	95.0
179	21.7	16.5	24.7
108	17.6	13.9	20.9



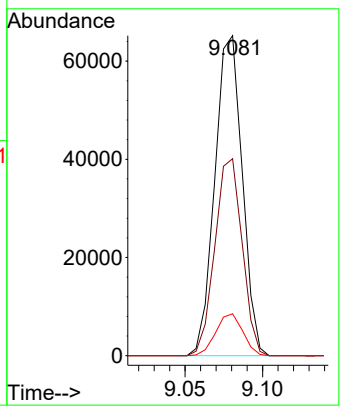


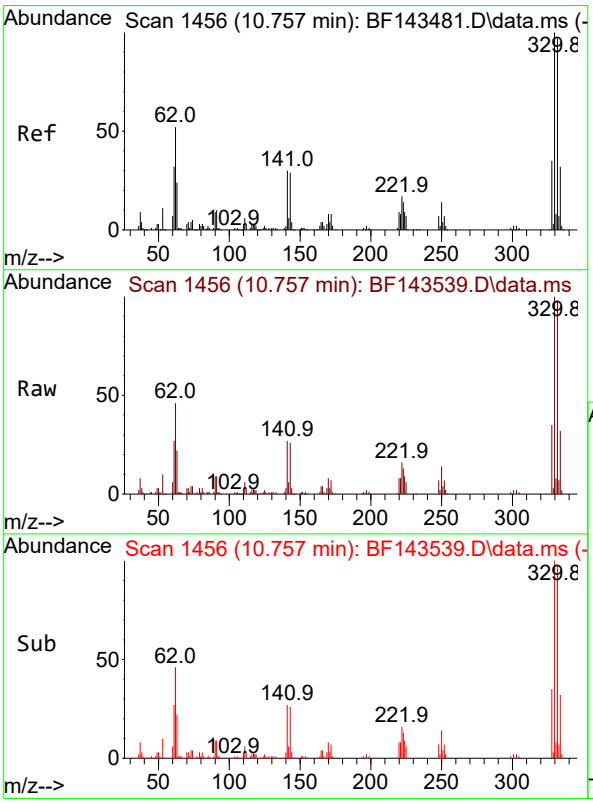
#41
Hexachlorocyclopentadiene
Concen: 40.008 ng
RT: 9.081 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:237 Resp: 80228

Ion	Ratio	Lower	Upper
237	100		
235	61.6	42.6	82.6
272	13.1	0.0	33.4

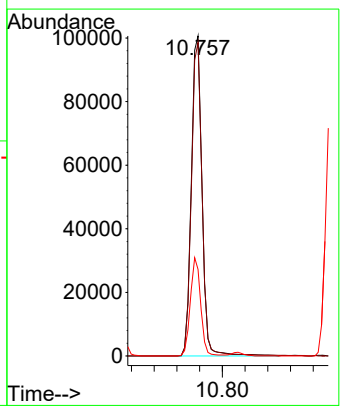


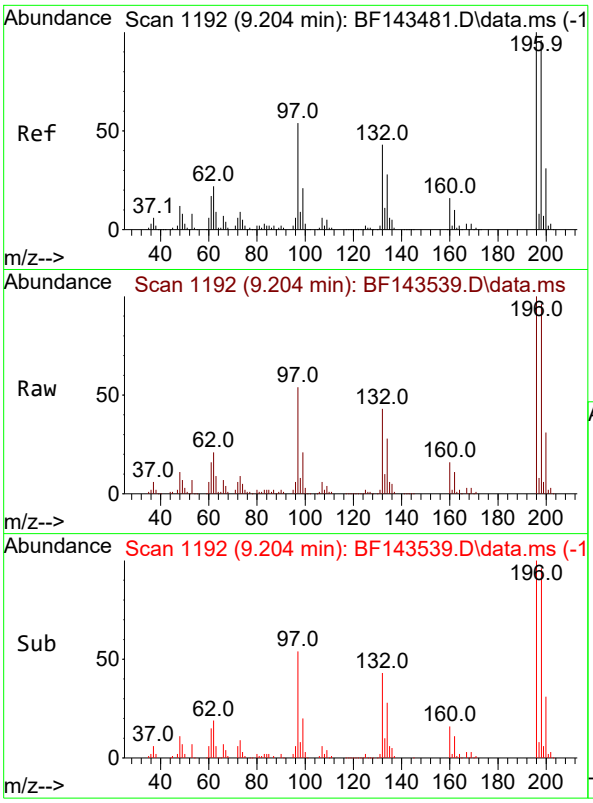


#42
2,4,6-Tribromophenol
Concen: 71.678 ng
RT: 10.757 min Scan# 1456
Delta R.T. -0.006 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Tgt Ion:330 Resp: 131942

Ion	Ratio	Lower	Upper
330	100		
332	96.8	78.0	117.0
141	29.7	23.7	35.5



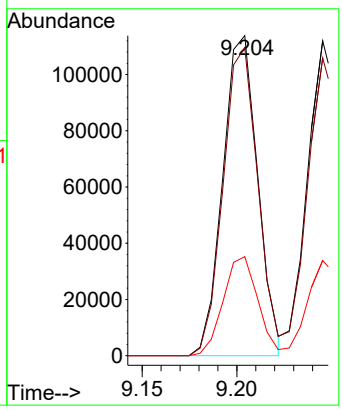


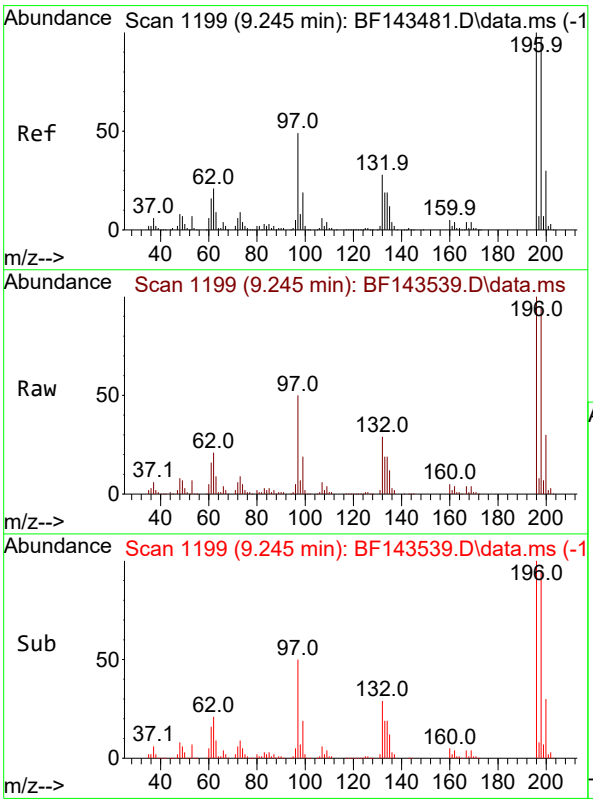
#43
2,4,6-Trichlorophenol
Concen: 41.956 ng
RT: 9.204 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:196 Resp: 146031

Ion	Ratio	Lower	Upper
196	100		
198	96.3	77.0	115.4
200	31.0	24.6	37.0

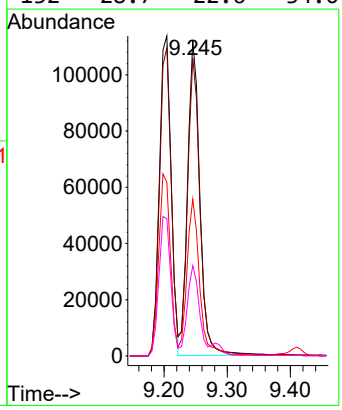


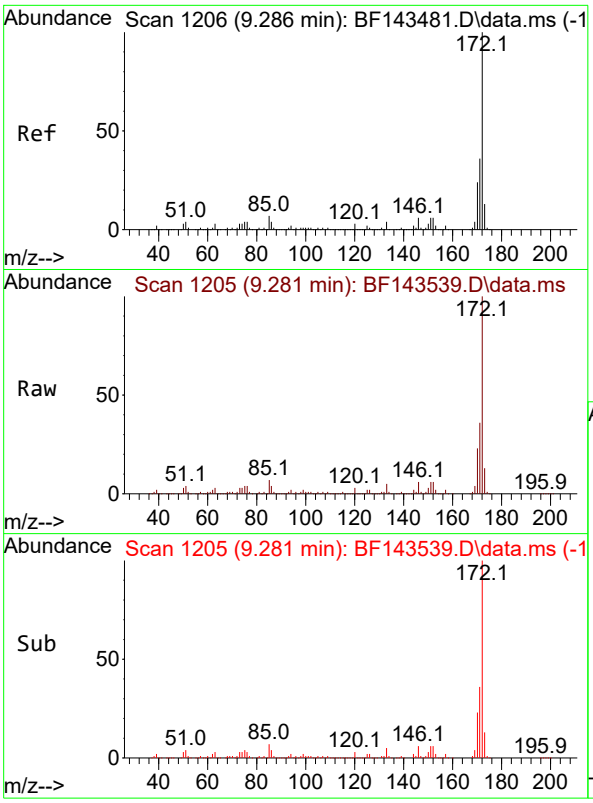


#44
2,4,5-Trichlorophenol
Concen: 40.224 ng
RT: 9.245 min Scan# 1199
Delta R.T. -0.006 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Tgt Ion:196 Resp: 152926

Ion	Ratio	Lower	Upper
196	100		
198	94.6	77.3	115.9
97	49.8	40.0	60.0
132	28.7	22.6	34.0



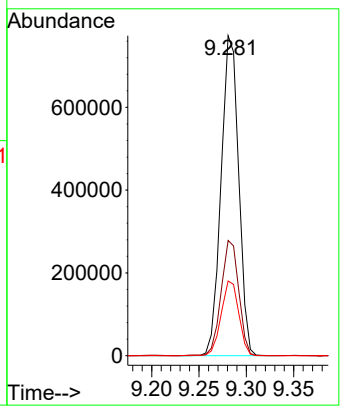


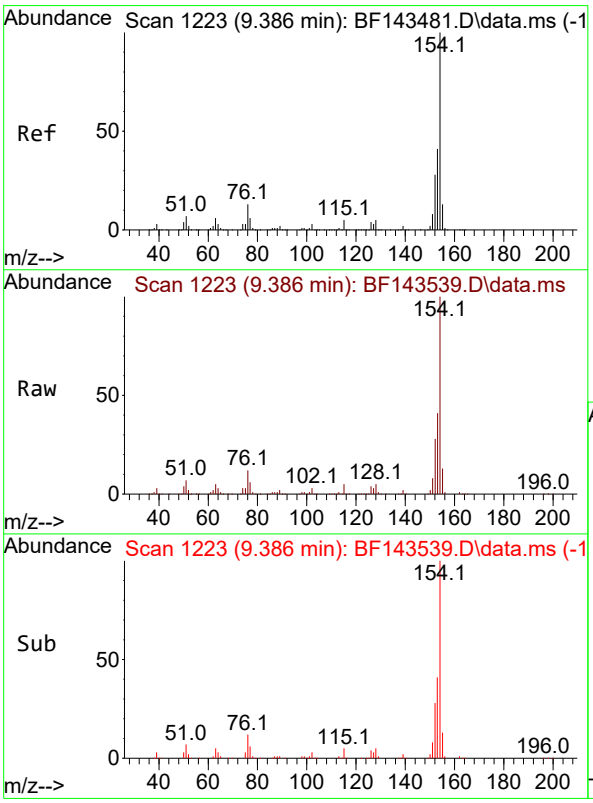
#45
2-Fluorobiphenyl
Concen: 83.673 ng
RT: 9.281 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:172 Resp: 1001186

Ion	Ratio	Lower	Upper
172	100		
171	36.0	28.8	43.2
170	23.4	18.8	28.2

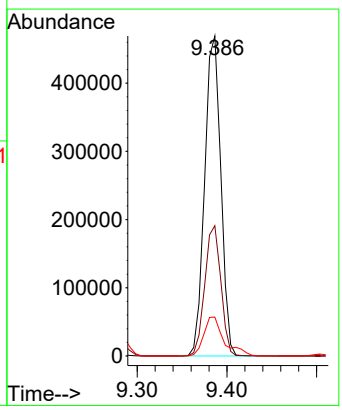


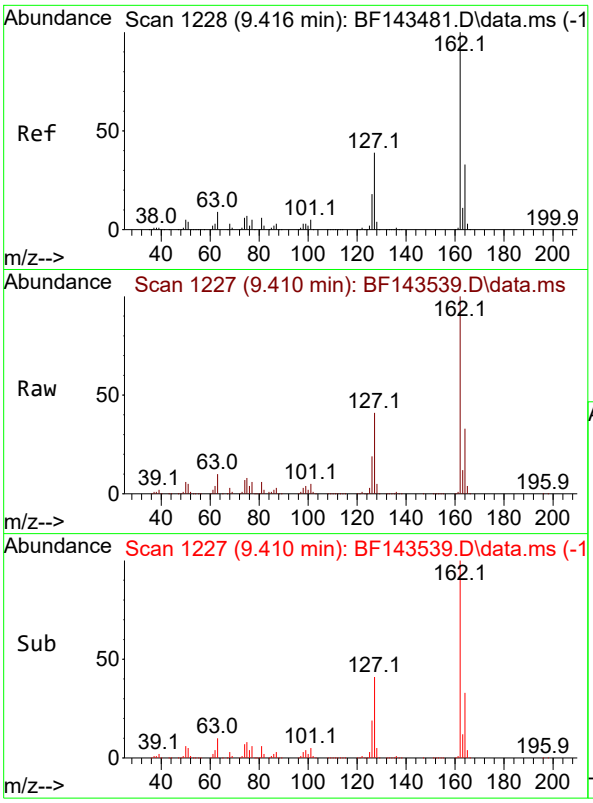


#46
1,1'-Biphenyl
Concen: 41.811 ng
RT: 9.386 min Scan# 1223
Delta R.T. -0.006 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Tgt Ion:154 Resp: 586854

Ion	Ratio	Lower	Upper
154	100		
153	40.7	20.6	60.6
76	12.1	0.0	33.0



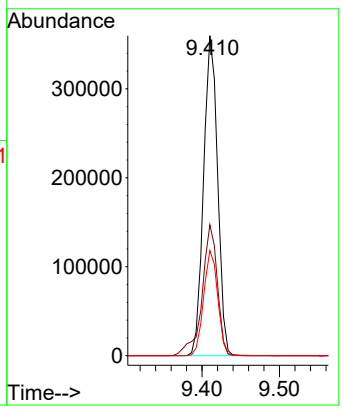


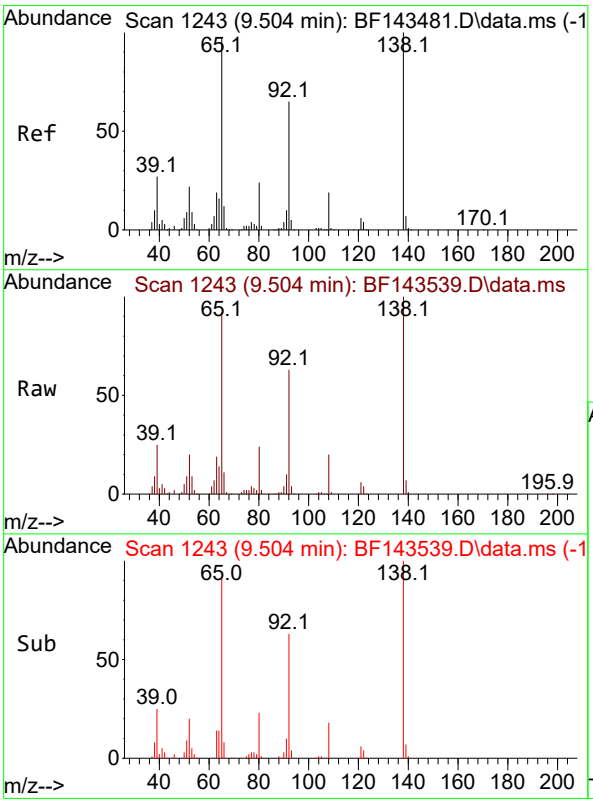
#47
2-Chloronaphthalene
Concen: 41.011 ng
RT: 9.410 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:162 Resp: 451645

Ion	Ratio	Lower	Upper
162	100		
127	40.9	31.8	47.6
164	32.8	26.4	39.6

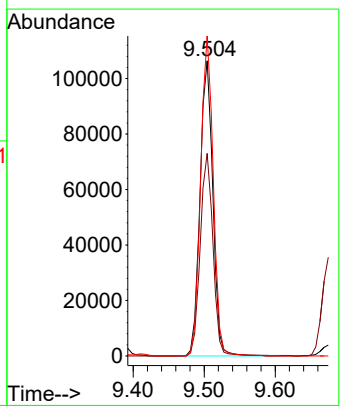


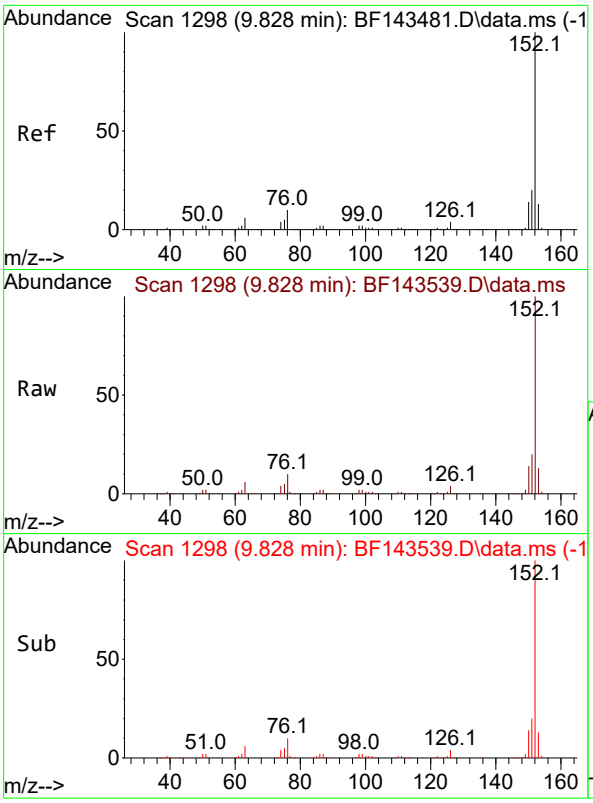


#48
2-Nitroaniline
Concen: 41.582 ng
RT: 9.504 min Scan# 1243
Delta R.T. -0.006 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Tgt Ion: 65 Resp: 134022

Ion	Ratio	Lower	Upper
65	100		
92	68.6	53.8	80.6
138	108.4	82.4	123.6



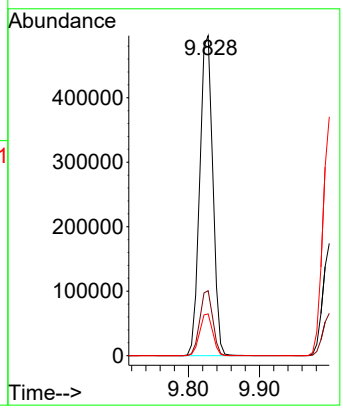


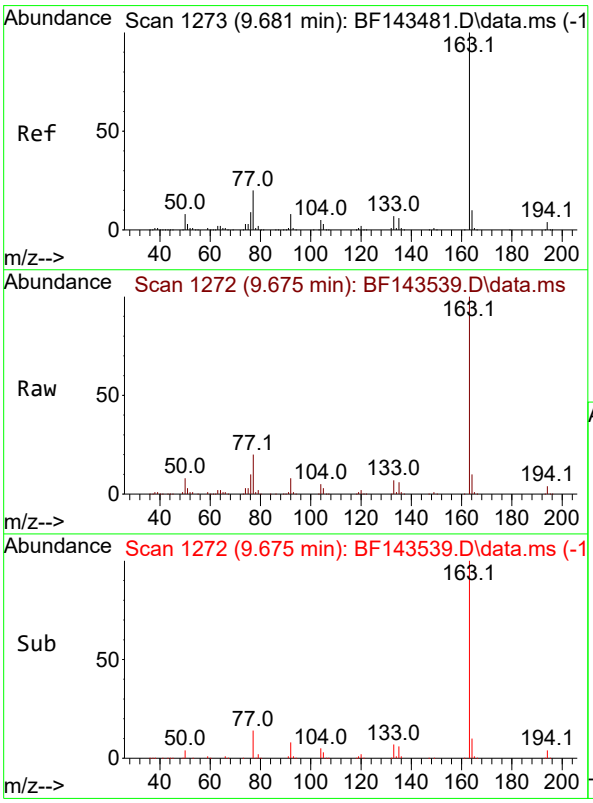
#49
Acenaphthylene
Concen: 40.434 ng
RT: 9.828 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:152 Resp: 637603

Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.2	24.4
153	13.0	10.6	15.8

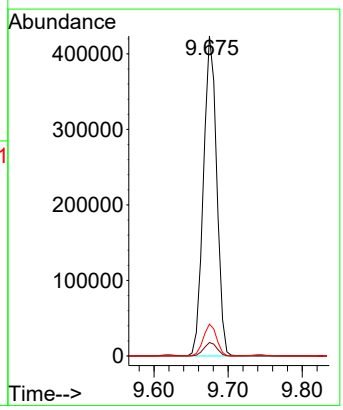


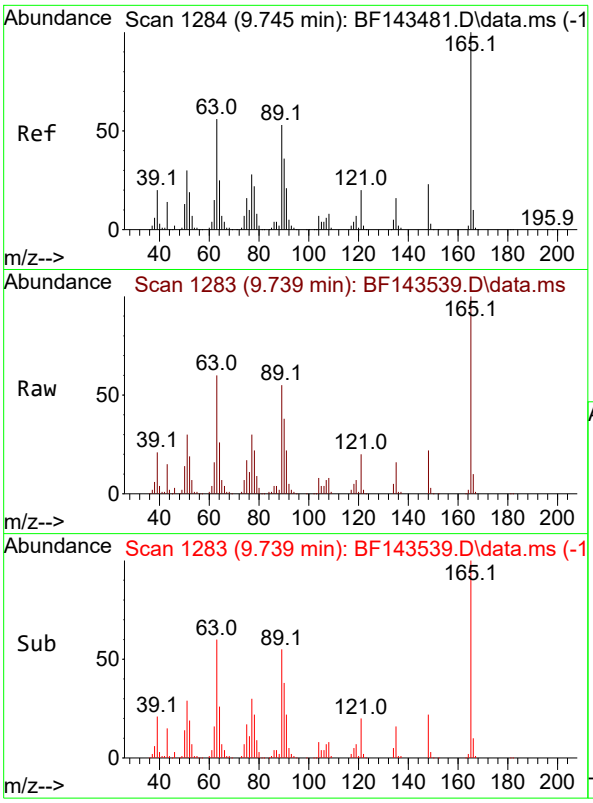


#50
Dimethylphthalate
Concen: 44.261 ng
RT: 9.675 min Scan# 1272
Delta R.T. -0.006 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Tgt Ion:163 Resp: 527145

Ion	Ratio	Lower	Upper
163	100		
194	4.2	3.4	5.0
164	10.0	8.2	12.2



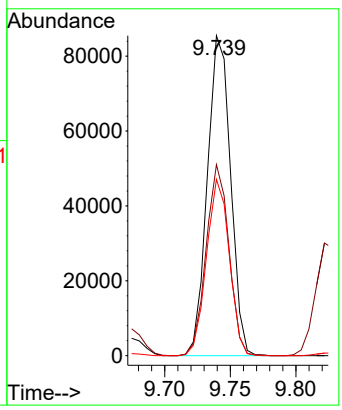


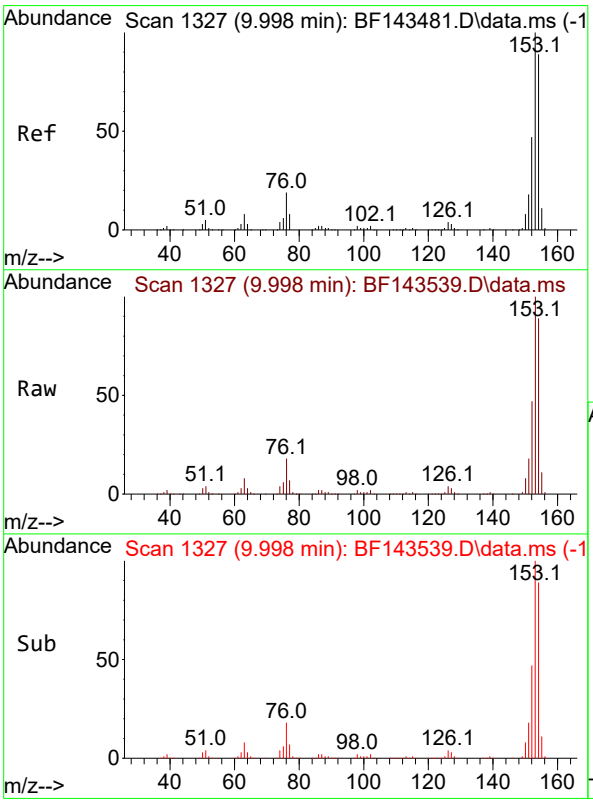
#51
2,6-Dinitrotoluene
Concen: 42.723 ng
RT: 9.739 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:165 Resp: 105458

Ion	Ratio	Lower	Upper
165	100		
63	59.7	45.0	67.6
89	55.1	42.5	63.7

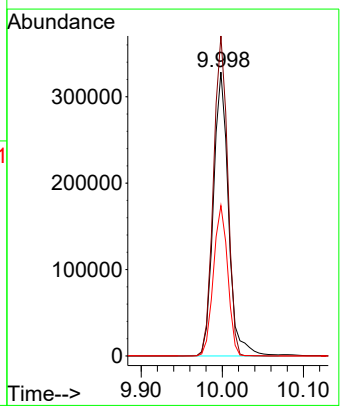


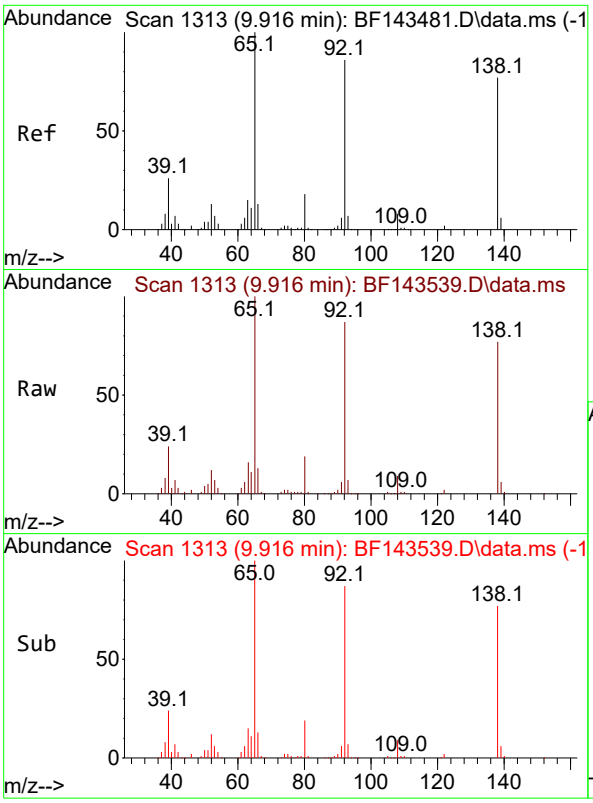


#52
Acenaphthene
Concen: 39.741 ng
RT: 9.998 min Scan# 1327
Delta R.T. -0.006 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Tgt Ion:154 Resp: 425489

Ion	Ratio	Lower	Upper
154	100		
153	112.7	89.5	134.3
152	53.0	42.5	63.7



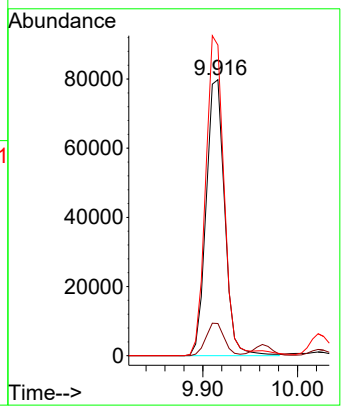


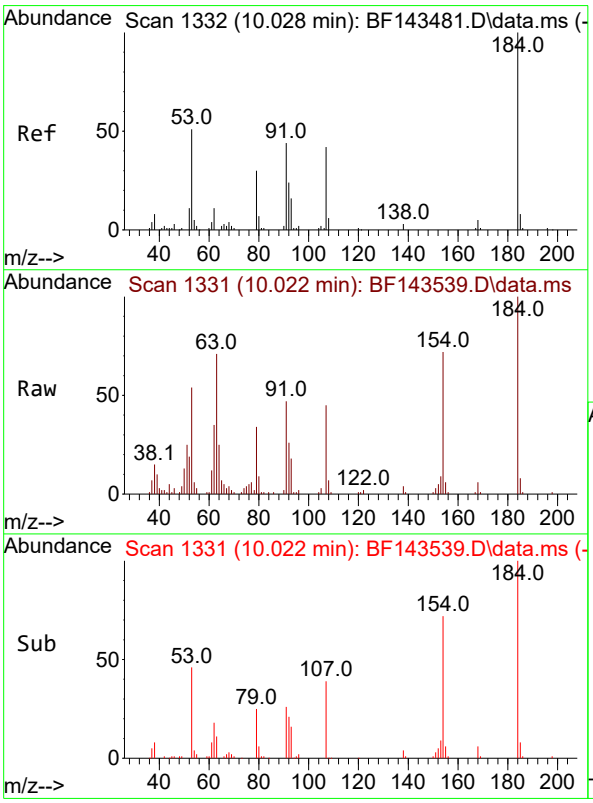
#53
3-Nitroaniline
Concen: 40.609 ng
RT: 9.916 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:138 Resp: 108314

Ion	Ratio	Lower	Upper
138	100		
108	11.7	8.6	13.0
92	112.5	89.8	134.8

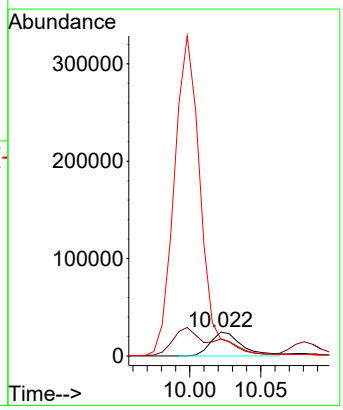


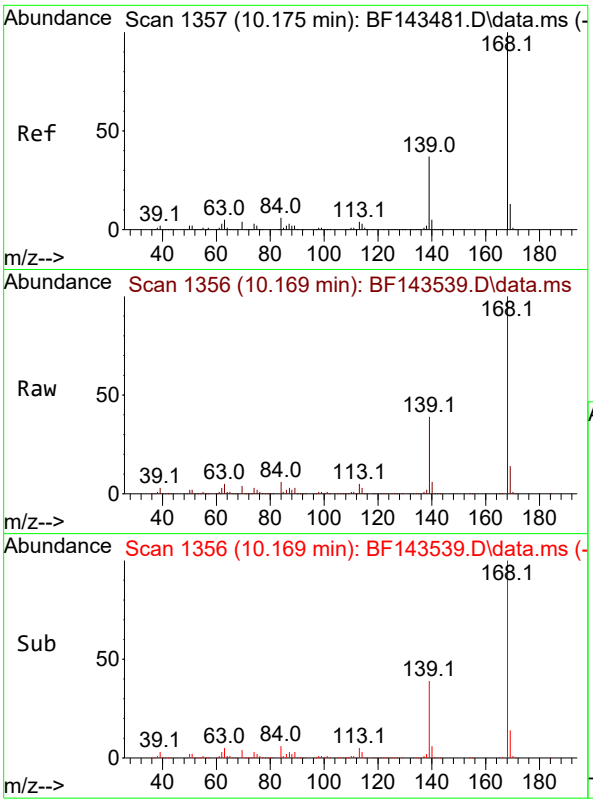


#54
2,4-Dinitrophenol
Concen: 31.881 ng
RT: 10.022 min Scan# 1331
Delta R.T. -0.006 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Tgt Ion:184 Resp: 37584

Ion	Ratio	Lower	Upper
184	100		
63	70.7	52.6	78.8
154	71.6	51.0	76.4



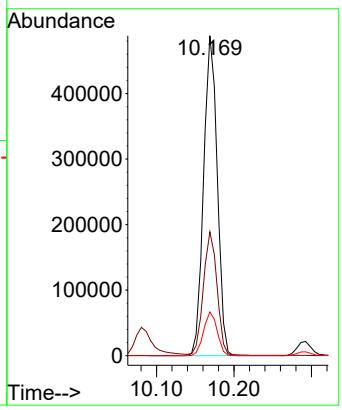


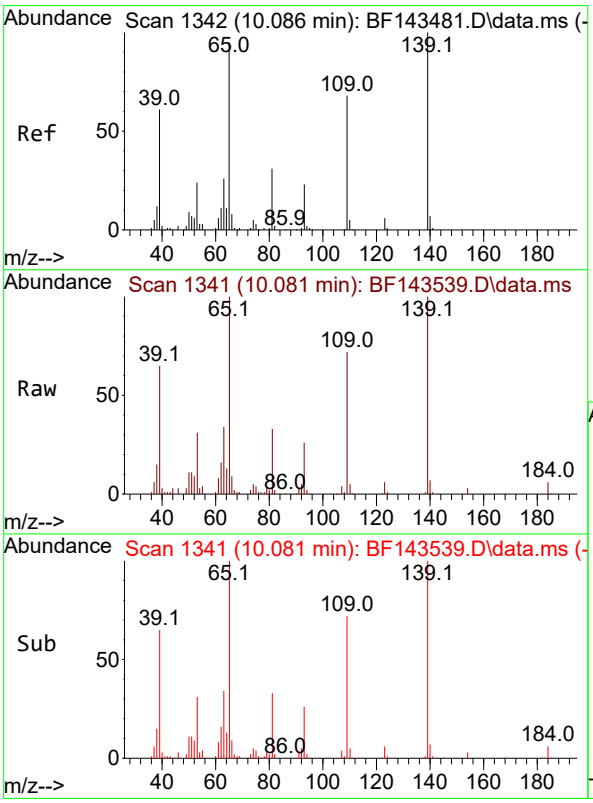
#55
Dibenzofuran
Concen: 39.052 ng
RT: 10.169 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:168 Resp: 596110

Ion	Ratio	Lower	Upper
168	100		
139	38.7	29.8	44.6
169	13.7	10.8	16.2

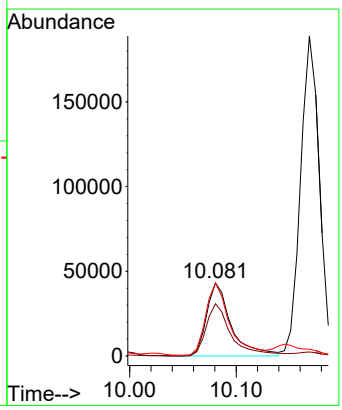


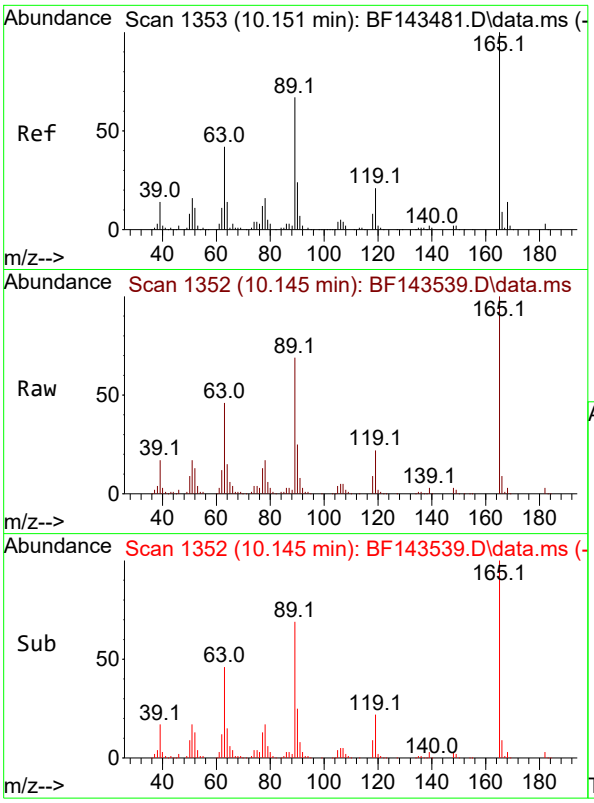


#56
4-Nitrophenol
Concen: 43.542 ng
RT: 10.081 min Scan# 1341
Delta R.T. -0.005 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Tgt Ion:139 Resp: 69103

Ion	Ratio	Lower	Upper
139	100		
109	71.5	48.2	88.2
65	99.9	75.8	115.8



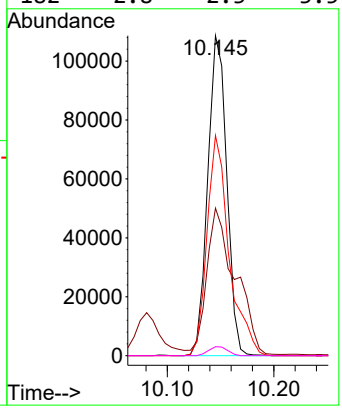


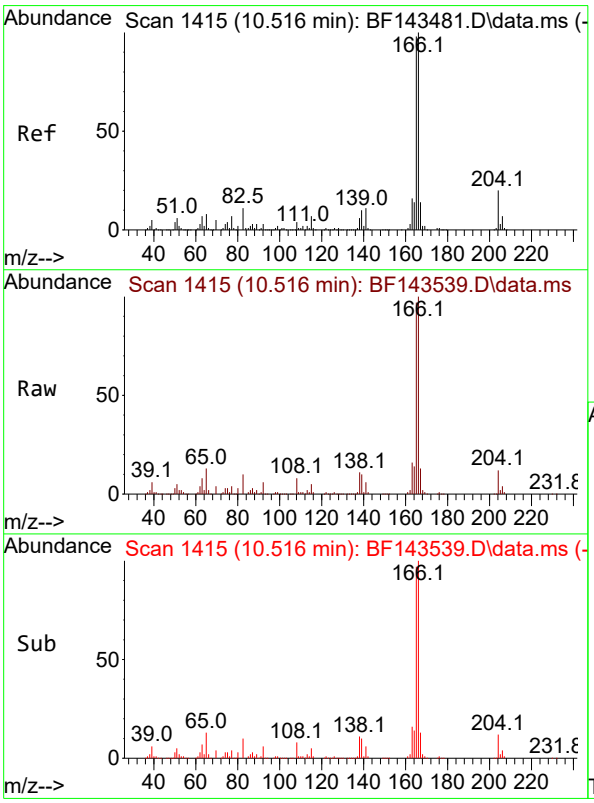
#57
2,4-Dinitrotoluene
Concen: 40.847 ng
RT: 10.145 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:165 Resp: 134631

Ion	Ratio	Lower	Upper
165	100		
63	46.1	34.9	52.3
89	68.8	53.3	79.9
182	2.8	2.3	3.5

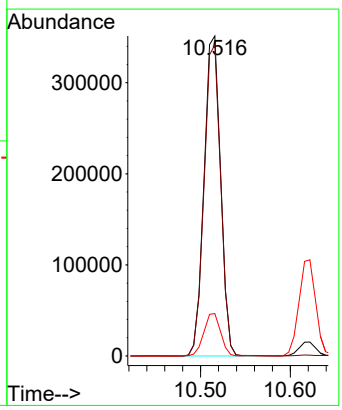


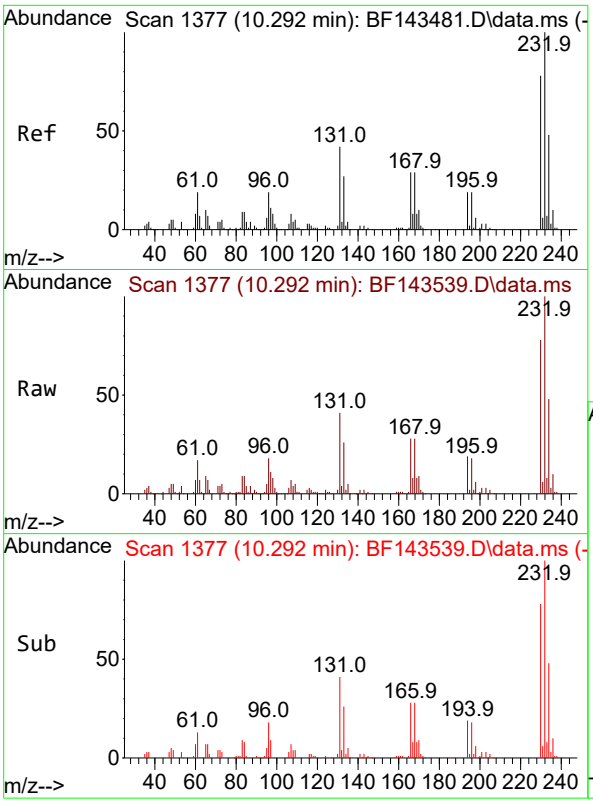


#58
Fluorene
Concen: 38.364 ng
RT: 10.516 min Scan# 1415
Delta R.T. -0.006 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Tgt Ion:166 Resp: 450707

Ion	Ratio	Lower	Upper
166	100		
165	97.2	78.3	117.5
167	13.2	11.0	16.4



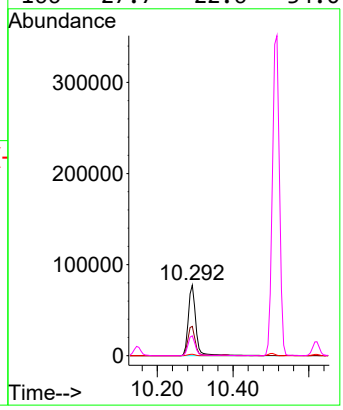


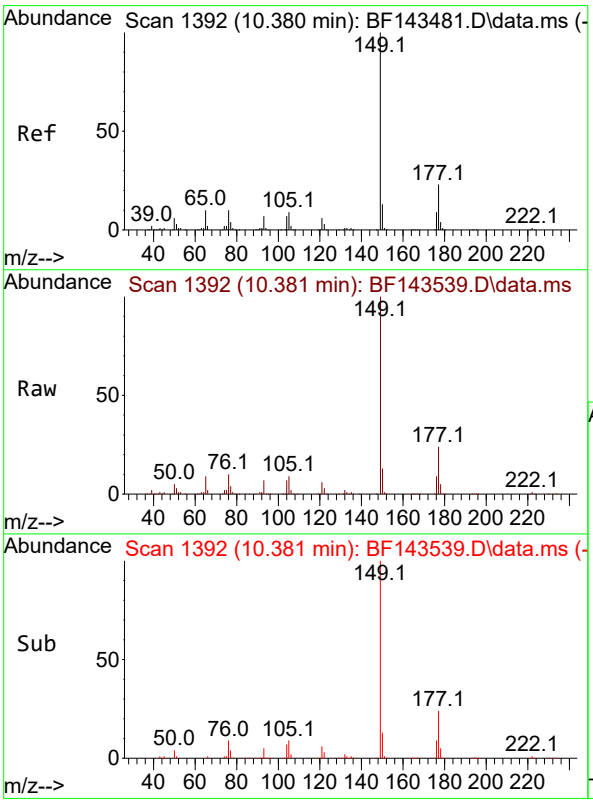
#59
2,3,4,6-Tetrachlorophenol
Concen: 37.783 ng
RT: 10.292 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:232 Resp: 106720

Ion	Ratio	Lower	Upper
232	100		
131	41.0	32.7	49.1
130	1.9	1.6	2.4
166	27.7	22.6	34.0

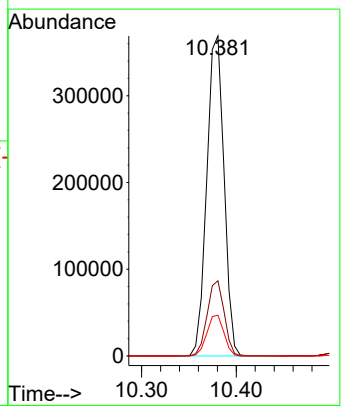


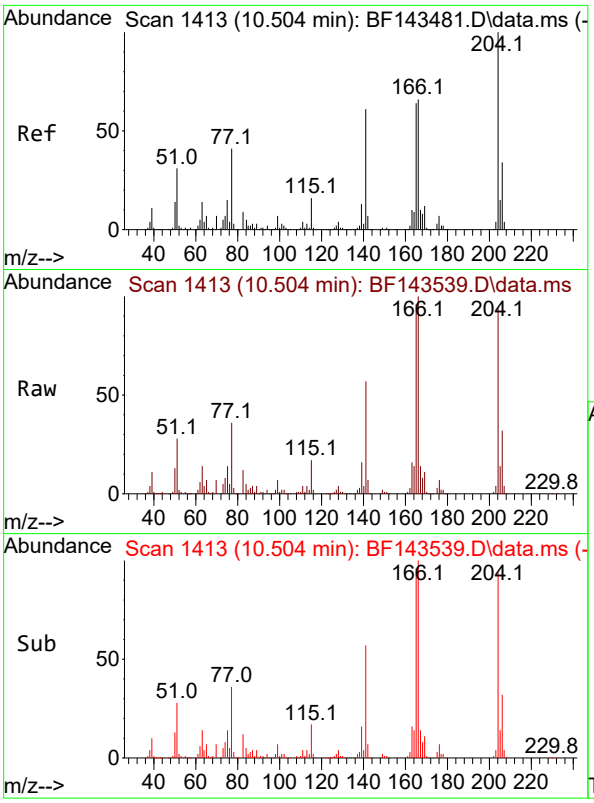


#60
Diethylphthalate
Concen: 43.716 ng
RT: 10.381 min Scan# 1392
Delta R.T. -0.006 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Tgt Ion:149 Resp: 466799

Ion	Ratio	Lower	Upper
149	100		
177	23.5	18.3	27.5
150	12.7	10.3	15.5



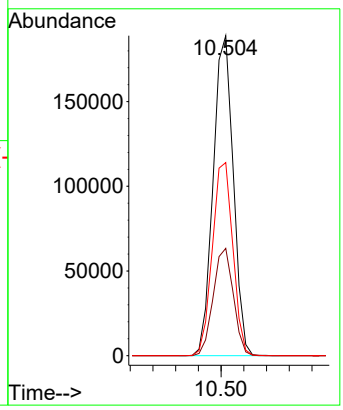


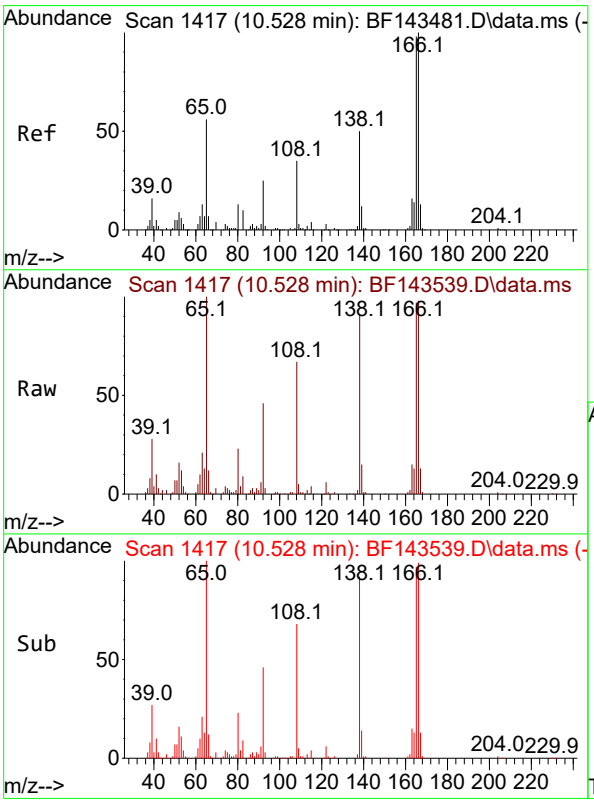
#61
4-Chlorophenyl-phenylether
Concen: 39.562 ng
RT: 10.504 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:204 Resp: 232448

Ion	Ratio	Lower	Upper
204	100		
206	33.6	27.0	40.4
141	60.3	48.7	73.1

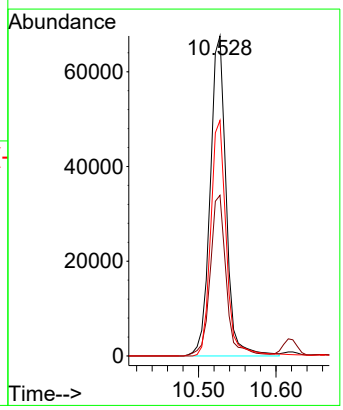


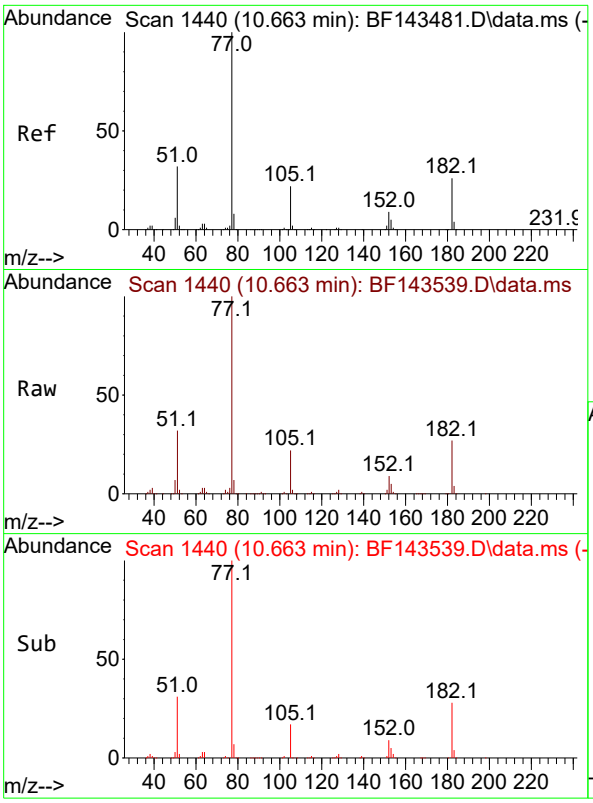


#62
4-Nitroaniline
Concen: 39.469 ng
RT: 10.528 min Scan# 1417
Delta R.T. -0.012 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Tgt Ion:138 Resp: 96697

Ion	Ratio	Lower	Upper
138	100		
92	50.2	29.3	69.3
108	73.6	50.7	90.7



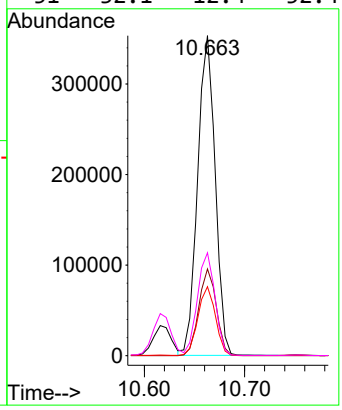


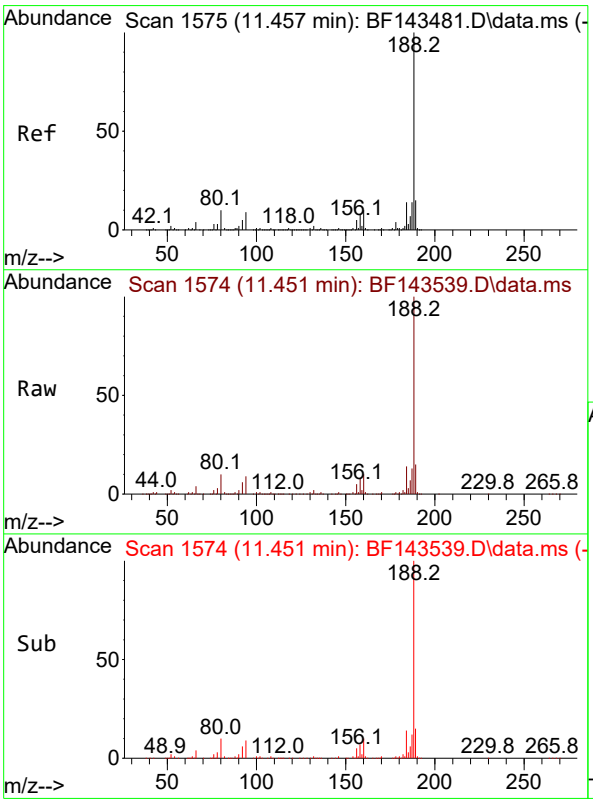
#63
Azobenzene
Concen: 38.969 ng
RT: 10.663 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 77 Resp: 431460

Ion	Ratio	Lower	Upper
77	100		
182	27.1	6.2	46.2
105	21.5	2.2	42.2
51	32.1	12.4	52.4

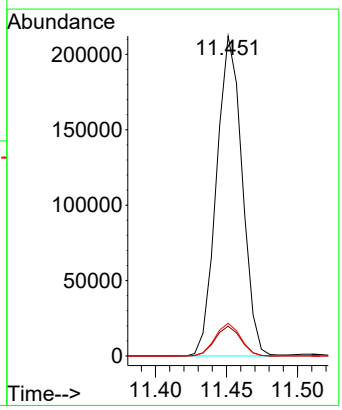


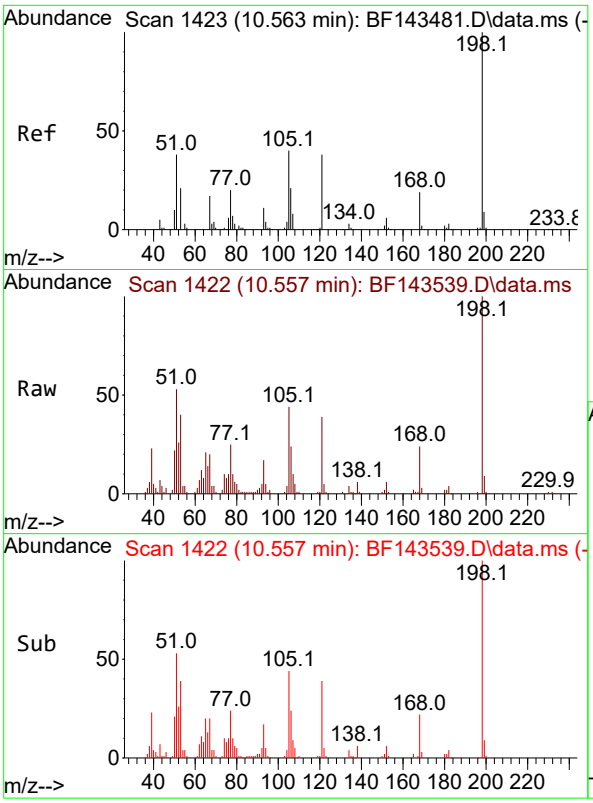


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.451 min Scan# 1574
Delta R.T. -0.006 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Tgt Ion:188 Resp: 266164

Ion	Ratio	Lower	Upper
188	100		
94	9.3	7.4	11.2
80	10.2	8.2	12.4



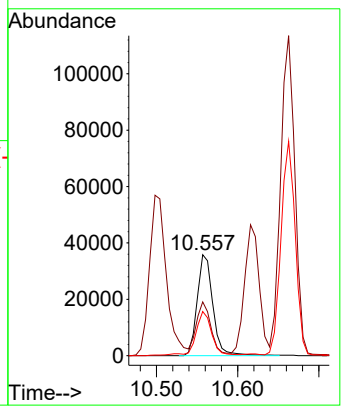


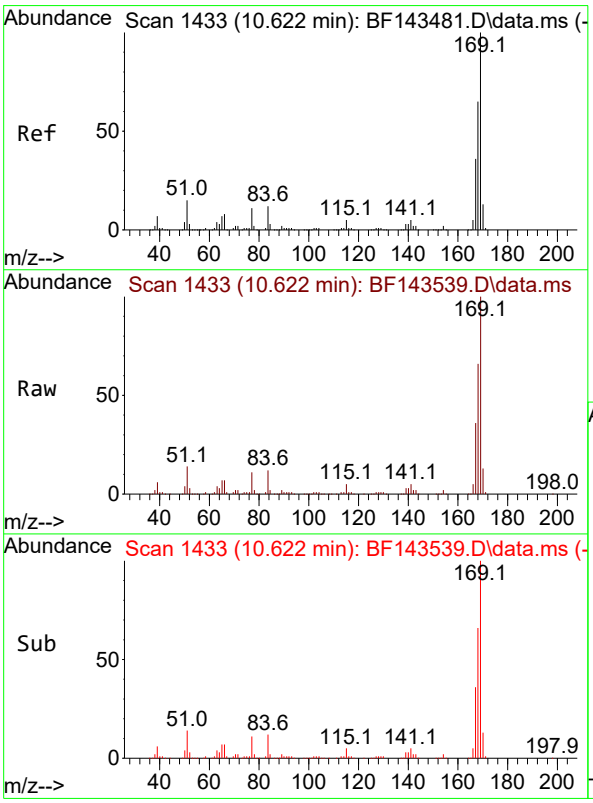
#65
4,6-Dinitro-2-methylphenol
Concen: 32.117 ng
RT: 10.557 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:198 Resp: 48200

Ion	Ratio	Lower	Upper
198	100		
51	53.2	29.6	69.6
105	43.7	21.5	61.5

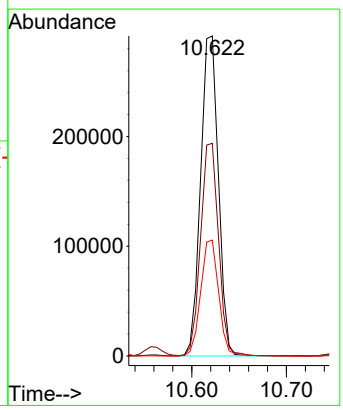


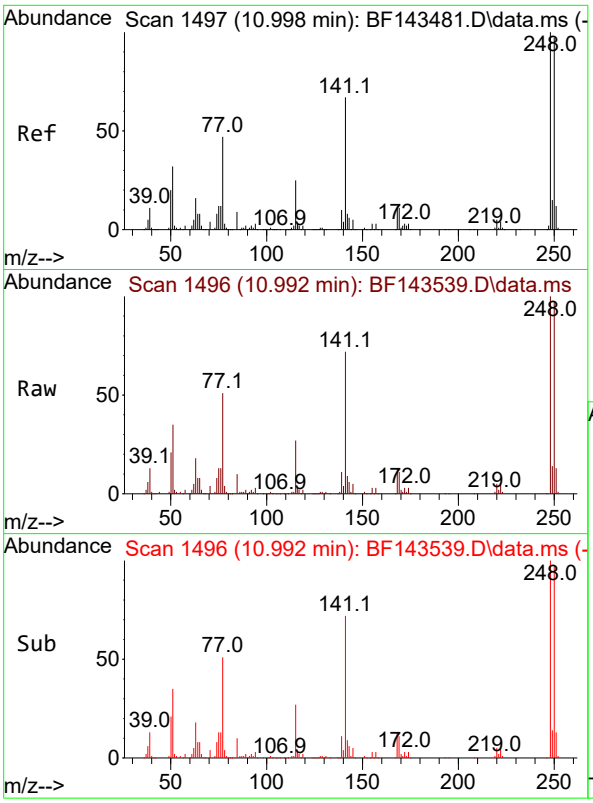


#66
n-Nitrosodiphenylamine
Concen: 44.307 ng
RT: 10.622 min Scan# 1433
Delta R.T. -0.006 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Tgt Ion:169 Resp: 379520

Ion	Ratio	Lower	Upper
169	100		
168	66.4	52.4	78.6
167	36.2	28.9	43.3



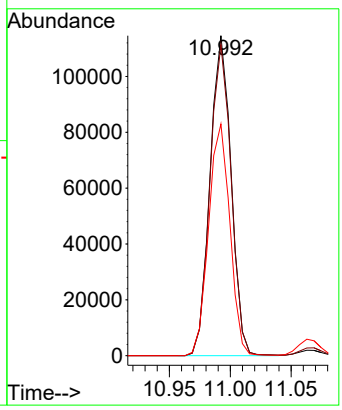


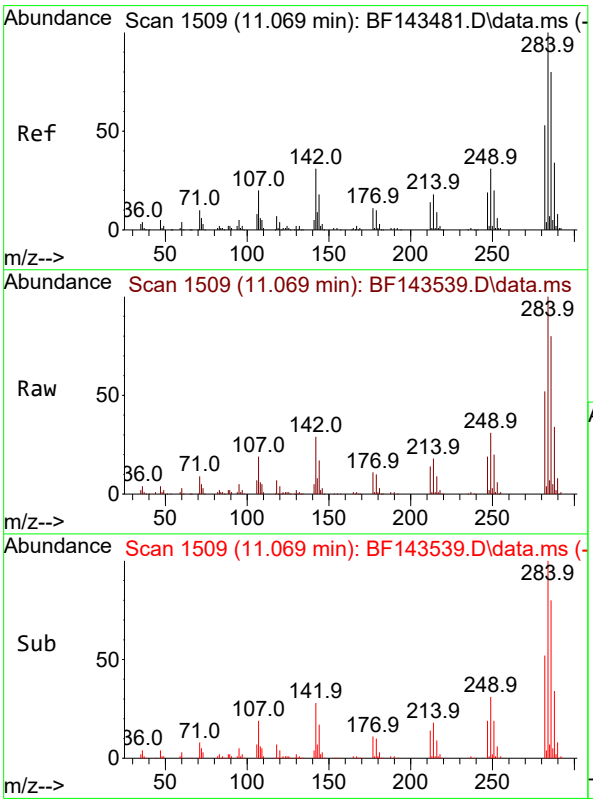
#67
4-Bromophenyl-phenylether
Concen: 43.446 ng
RT: 10.992 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:248 Resp: 137974

Ion	Ratio	Lower	Upper
248	100		
250	97.2	77.8	116.8
141	72.4	54.0	81.0

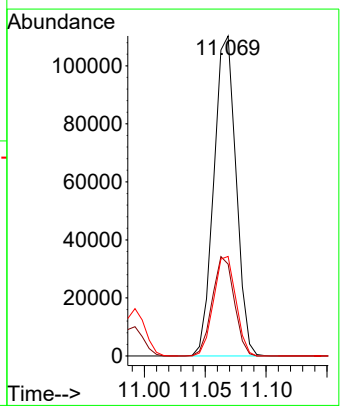


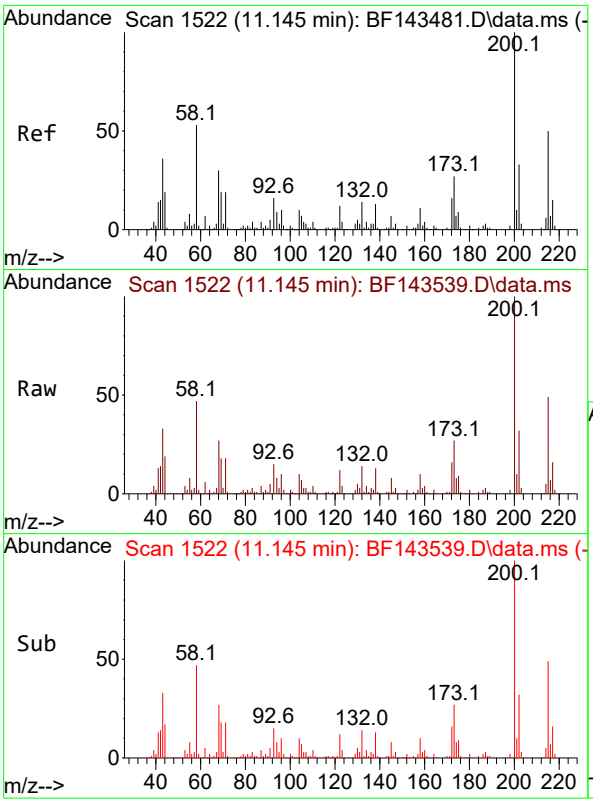


#68
Hexachlorobenzene
Concen: 40.894 ng
RT: 11.069 min Scan# 1509
Delta R.T. -0.006 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Tgt Ion:284 Resp: 139989

Ion	Ratio	Lower	Upper
284	100		
142	28.7	24.4	36.6
249	31.1	25.0	37.6



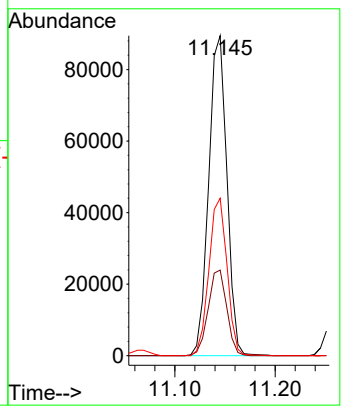


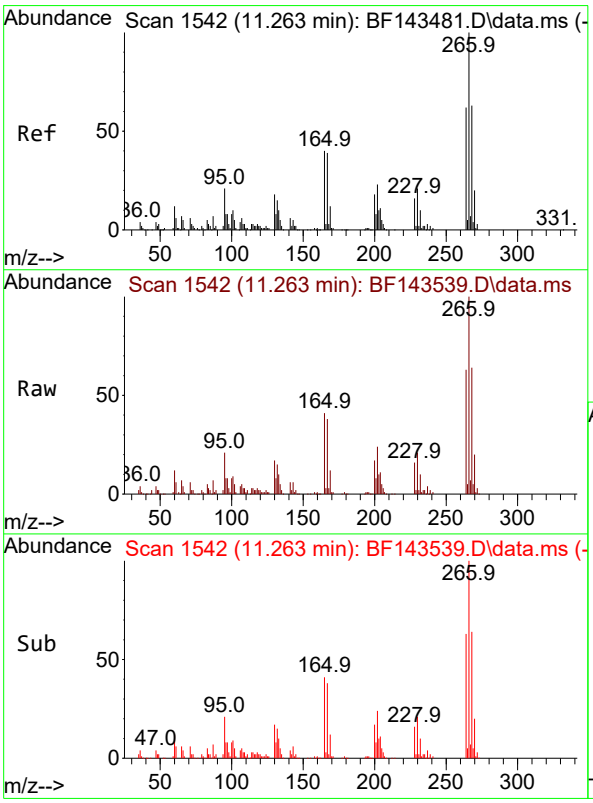
#69
Atrazine
Concen: 51.067 ng
RT: 11.145 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:200 Resp: 112914

Ion	Ratio	Lower	Upper
200	100		
173	26.7	6.9	46.9
215	49.2	30.0	70.0

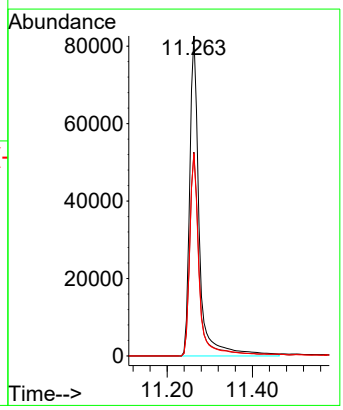


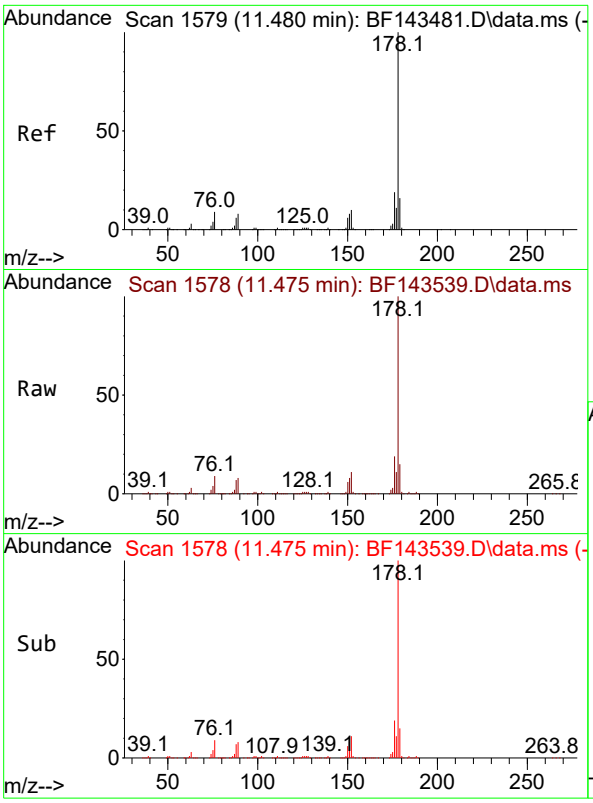


#70
Pentachlorophenol
Concen: 82.680 ng
RT: 11.263 min Scan# 1542
Delta R.T. -0.006 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Tgt Ion:266 Resp: 129625

Ion	Ratio	Lower	Upper
266	100		
268	63.7	50.5	75.7
264	63.2	49.8	74.8



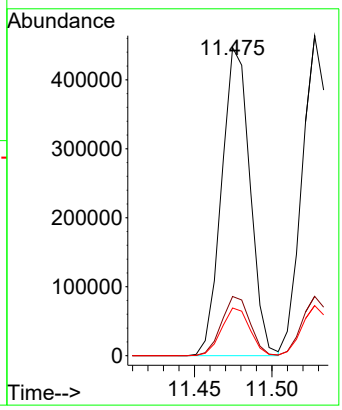


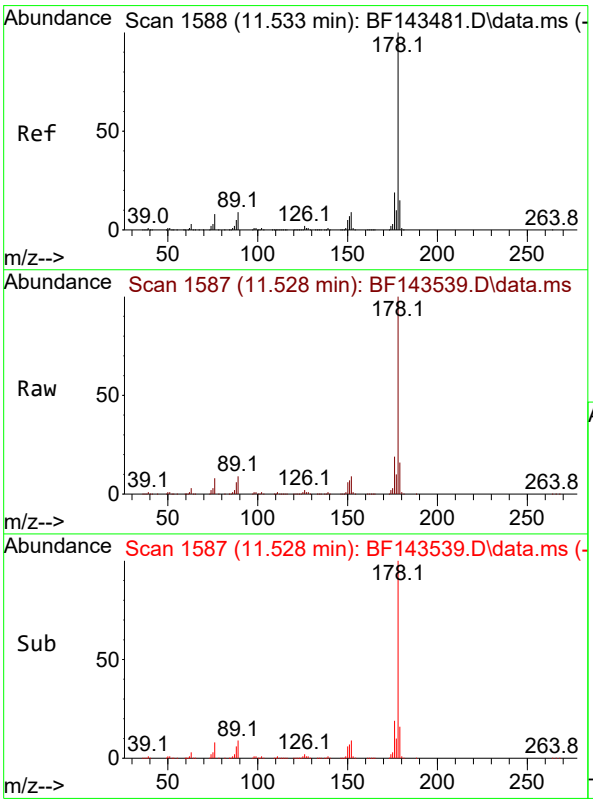
#71
Phenanthrene
Concen: 39.974 ng
RT: 11.475 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:178 Resp: 569767

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.5	23.3
179	15.5	12.5	18.7

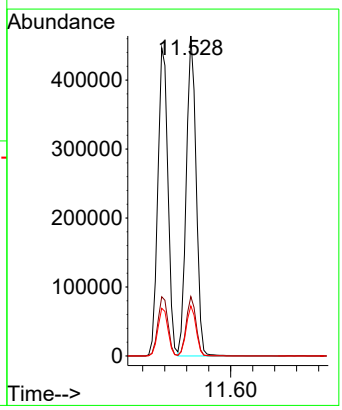


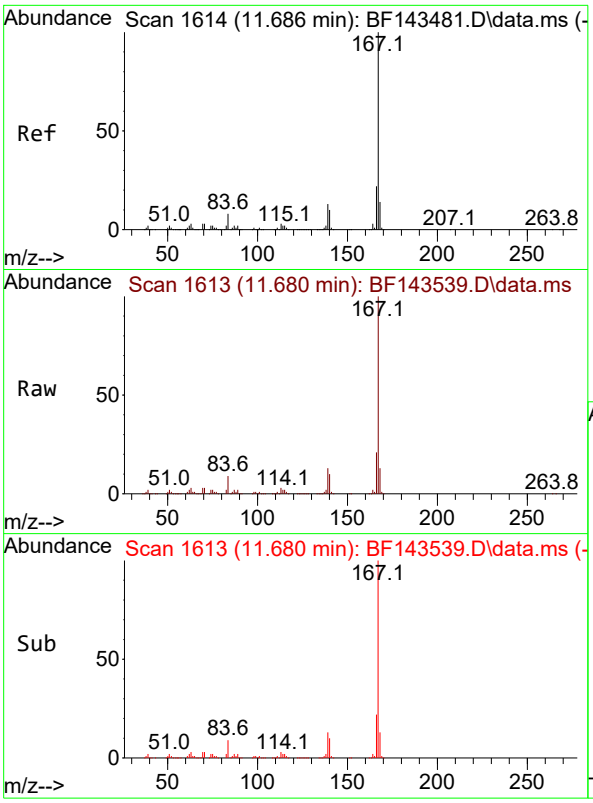


#72
Anthracene
Concen: 39.947 ng
RT: 11.528 min Scan# 1587
Delta R.T. -0.006 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Tgt Ion:178 Resp: 576813

Ion	Ratio	Lower	Upper
178	100		
176	18.5	15.0	22.4
179	15.6	12.3	18.5



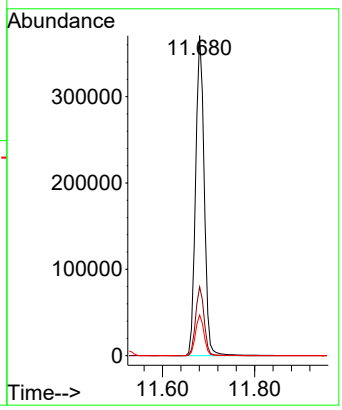


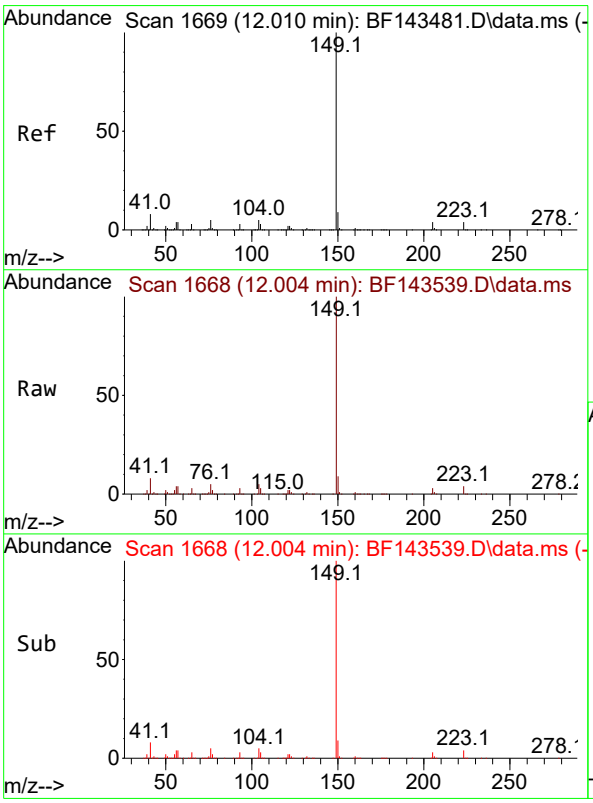
#73
Carbazole
Concen: 40.531 ng
RT: 11.680 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:167 Resp: 479540

Ion	Ratio	Lower	Upper
167	100		
166	21.5	17.3	25.9
139	12.7	10.0	15.0

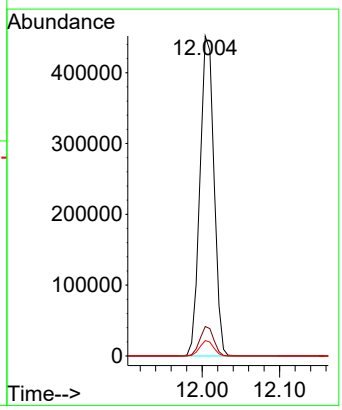


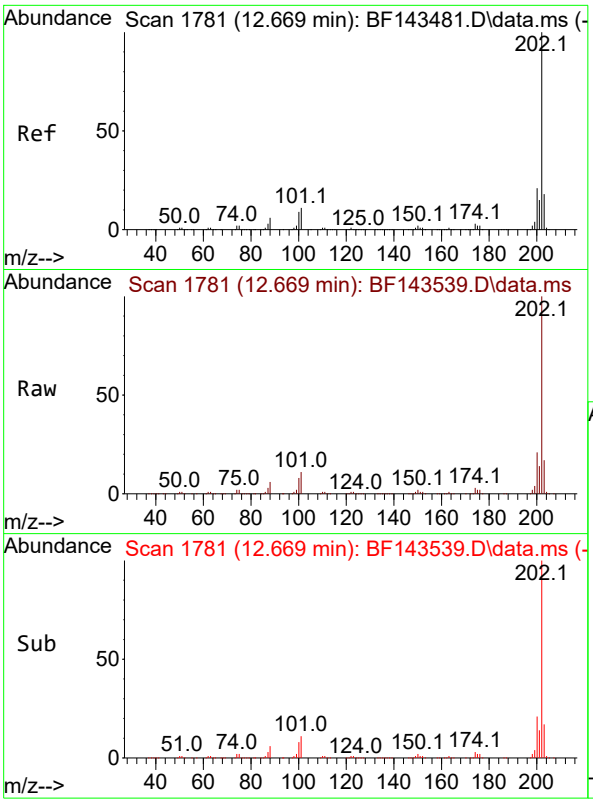


#74
Di-n-butylphthalate
Concen: 51.539 ng
RT: 12.004 min Scan# 1668
Delta R.T. -0.006 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Tgt Ion:149 Resp: 568861

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.2	10.8
104	4.8	3.6	5.4



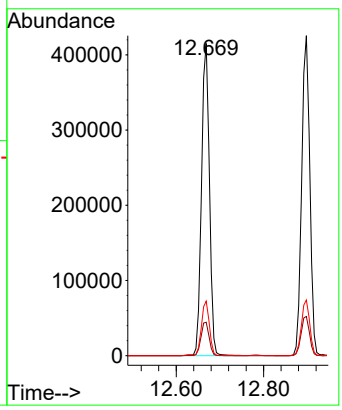


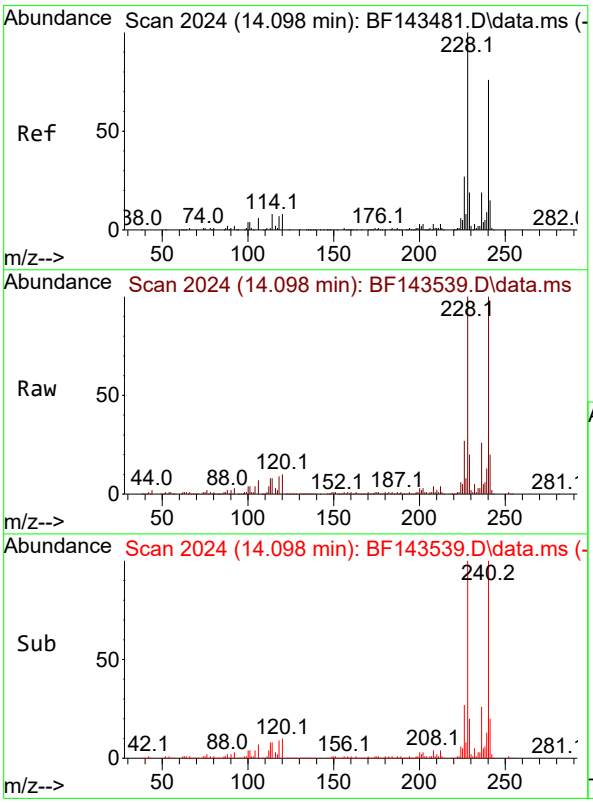
#75
Fluoranthene
Concen: 40.959 ng
RT: 12.669 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:202 Resp: 523856

Ion	Ratio	Lower	Upper
202	100		
101	10.7	0.0	31.3
203	17.5	0.0	37.9

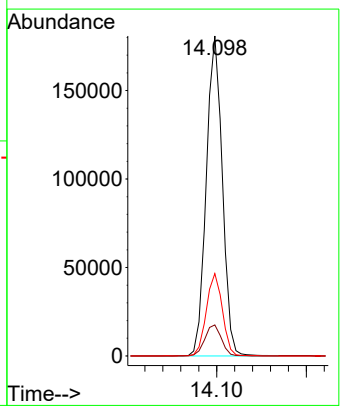


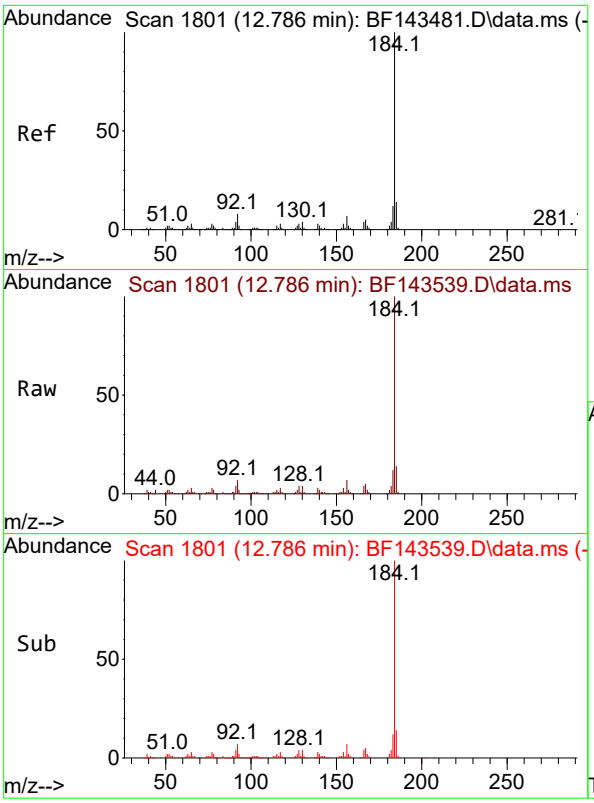


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.098 min Scan# 2024
Delta R.T. -0.006 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Tgt Ion:240 Resp: 224613

Ion	Ratio	Lower	Upper
240	100		
120	9.7	8.6	12.8
236	25.8	20.4	30.6



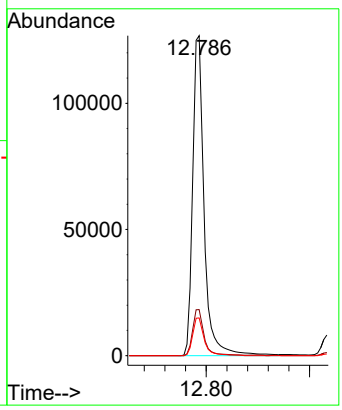


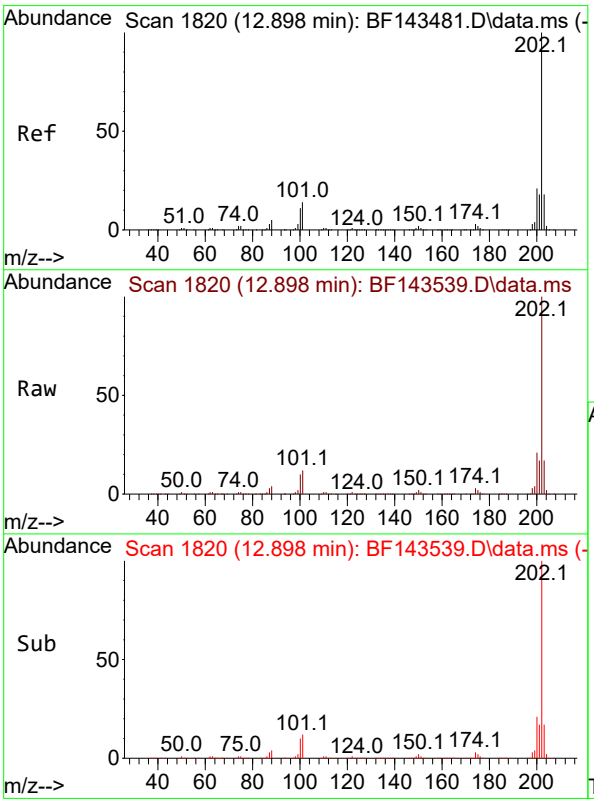
#77
Benzidine
Concen: 35.773 ng
RT: 12.786 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:184 Resp: 195722

Ion	Ratio	Lower	Upper
184	100		
185	14.4	11.3	16.9
183	11.8	9.5	14.3

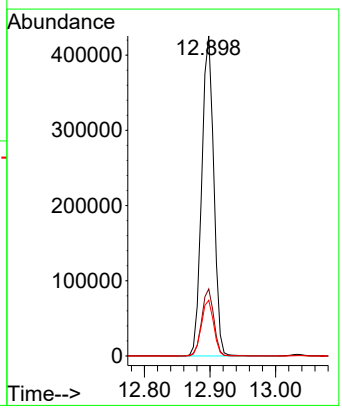


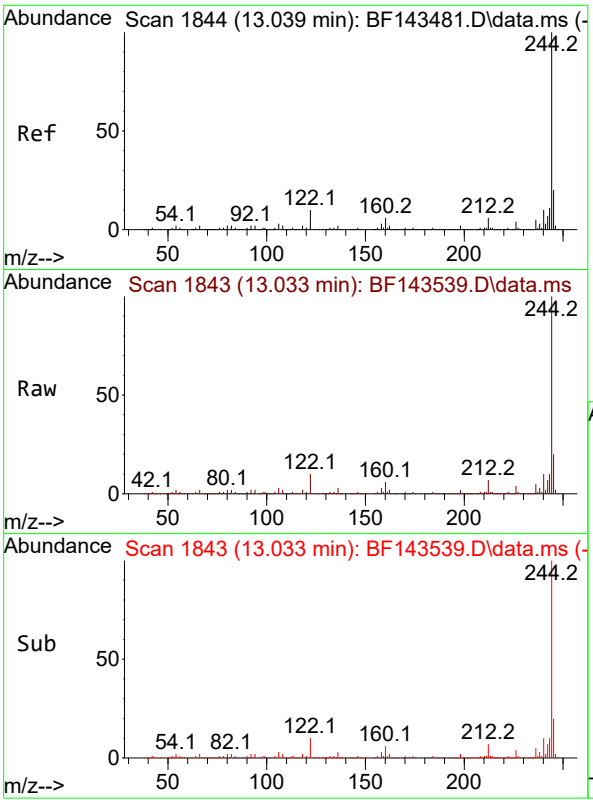


#78
Pyrene
Concen: 29.545 ng
RT: 12.898 min Scan# 1820
Delta R.T. -0.006 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Tgt Ion:202 Resp: 545878

Ion	Ratio	Lower	Upper
202	100		
200	20.9	17.0	25.4
203	17.4	14.3	21.5



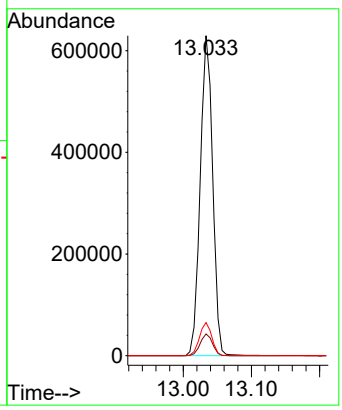


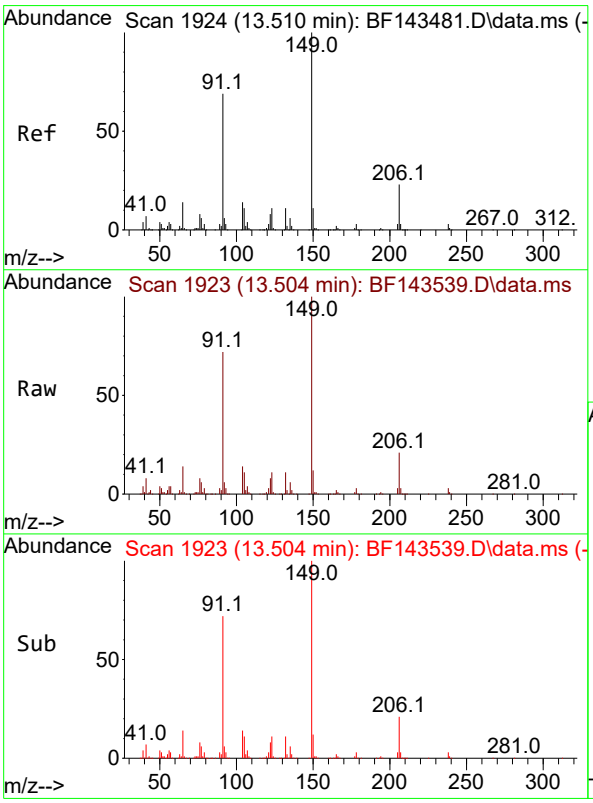
#79
Terphenyl-d14
Concen: 62.064 ng
RT: 13.033 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:244 Resp: 798863

Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.2	7.8
122	10.3	7.9	11.9

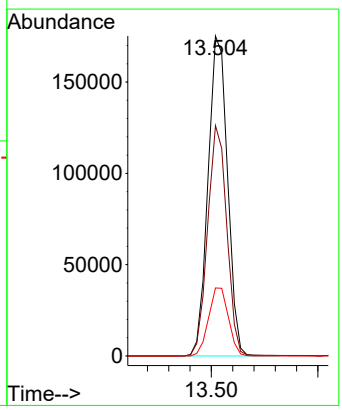


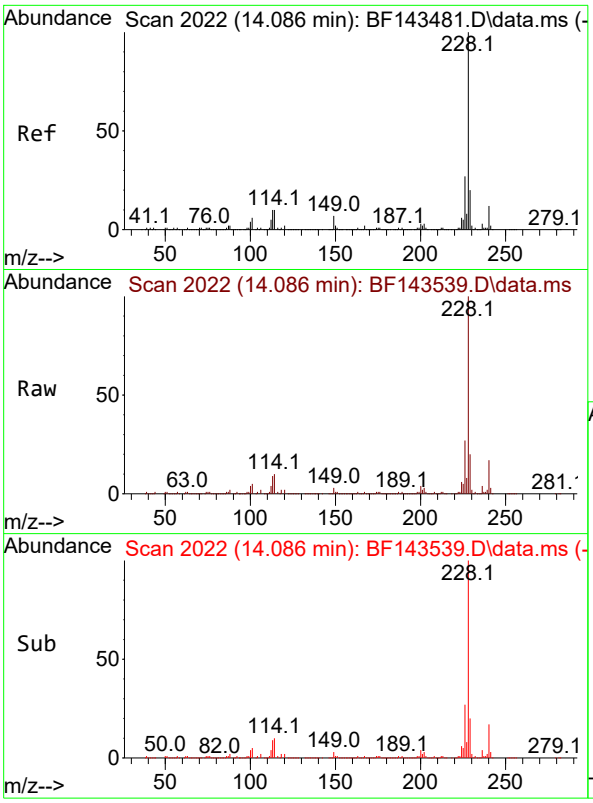


#80
Butylbenzylphthalate
Concen: 44.044 ng
RT: 13.504 min Scan# 1923
Delta R.T. -0.006 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Tgt Ion:149 Resp: 222304

Ion	Ratio	Lower	Upper
149	100		
91	72.0	55.3	82.9
206	21.3	18.2	27.4



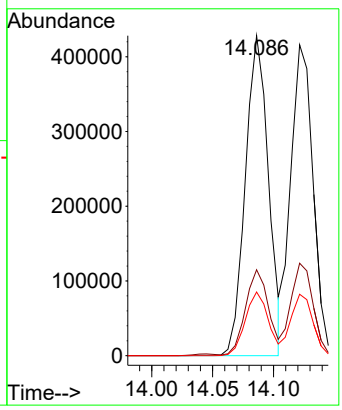


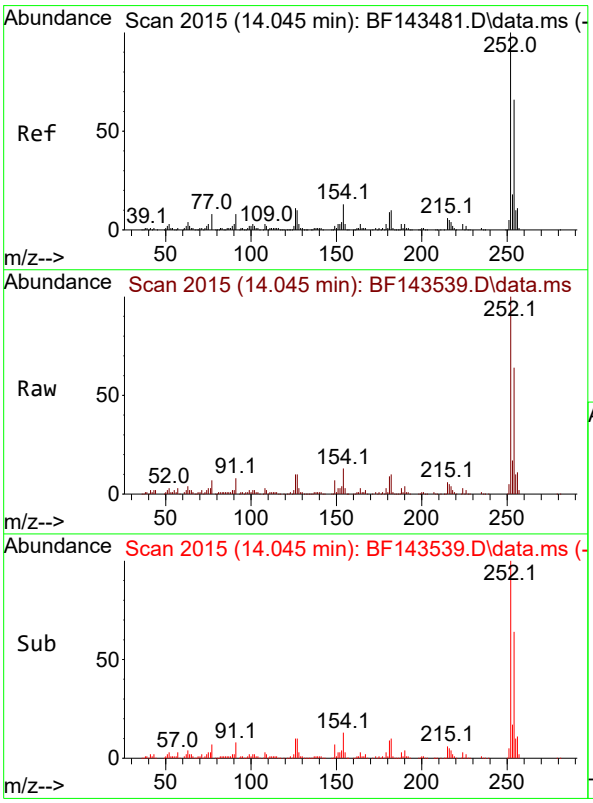
#81
Benzo(a)anthracene
Concen: 39.132 ng
RT: 14.086 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:228 Resp: 565876

Ion	Ratio	Lower	Upper
228	100		
226	26.8	21.7	32.5
229	19.9	15.7	23.5

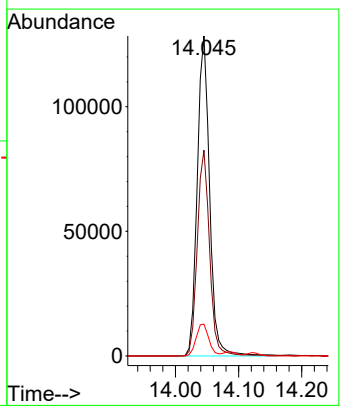


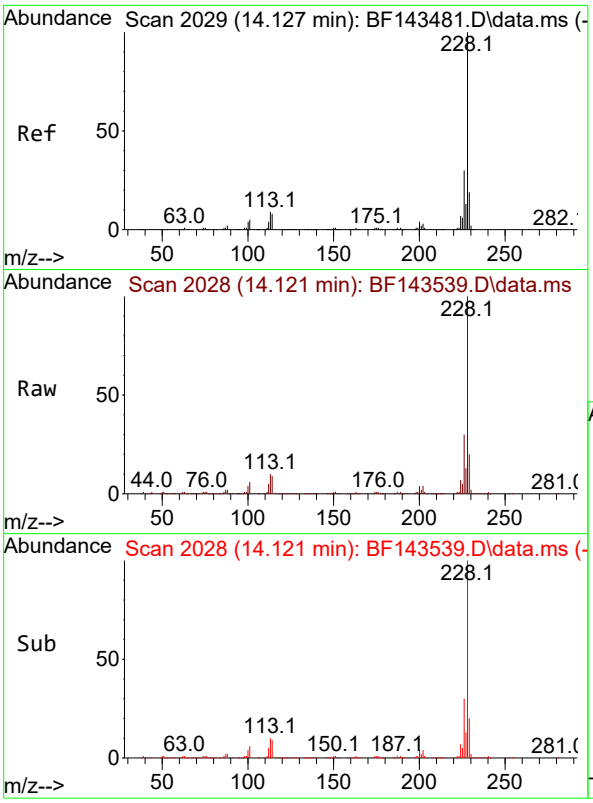


#82
3,3'-Dichlorobenzidine
Concen: 42.194 ng
RT: 14.045 min Scan# 2015
Delta R.T. 0.000 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Tgt Ion:252 Resp: 174738

Ion	Ratio	Lower	Upper
252	100		
254	64.3	52.6	79.0
126	10.0	8.7	13.1



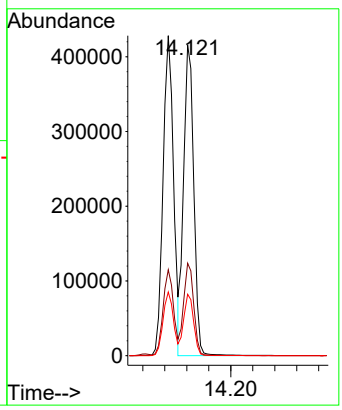


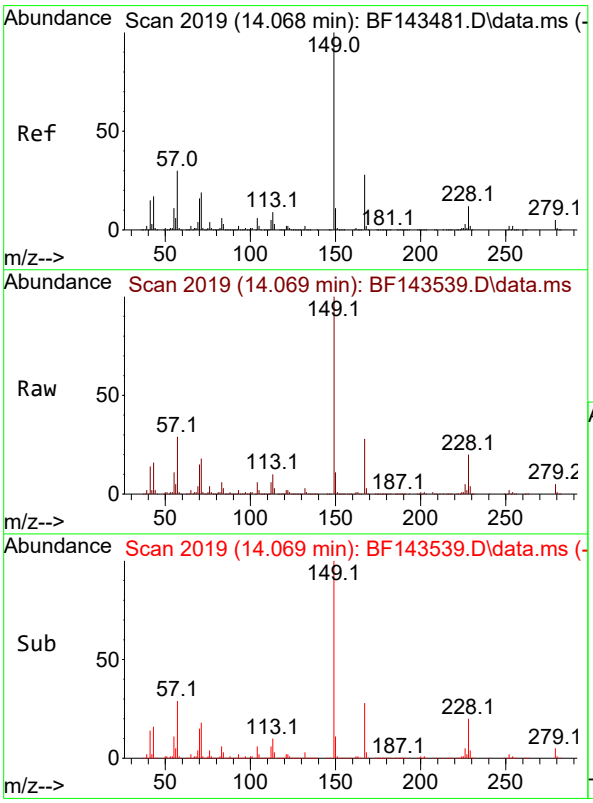
#83
Chrysene
Concen: 41.167 ng
RT: 14.121 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:228 Resp: 534990

Ion	Ratio	Lower	Upper
228	100		
226	29.7	23.7	35.5
229	19.8	15.7	23.5

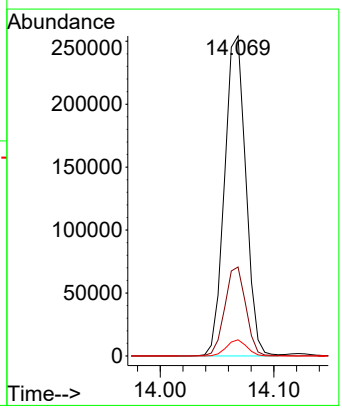


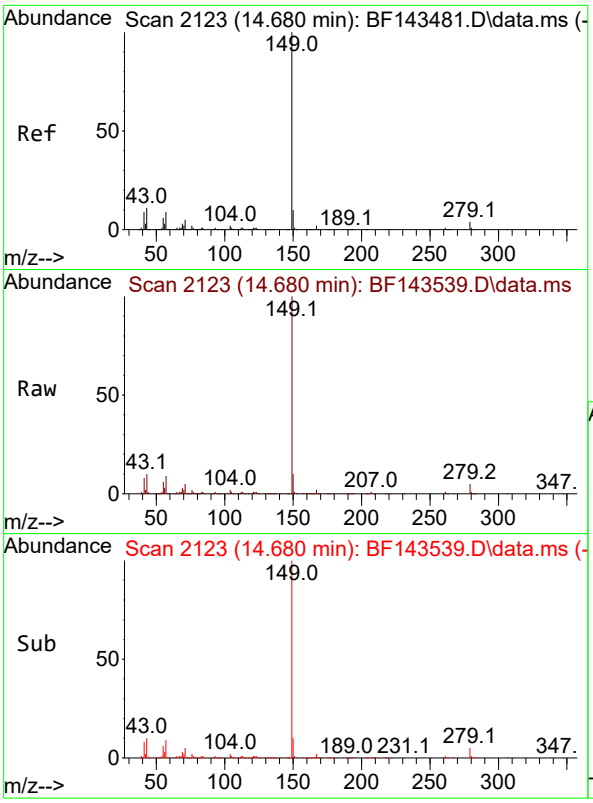


#84
Bis(2-ethylhexyl)phthalate
Concen: 43.053 ng
RT: 14.069 min Scan# 2019
Delta R.T. 0.000 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Tgt Ion:149 Resp: 330969

Ion	Ratio	Lower	Upper
149	100		
167	27.8	22.2	33.2
279	5.0	3.6	5.4



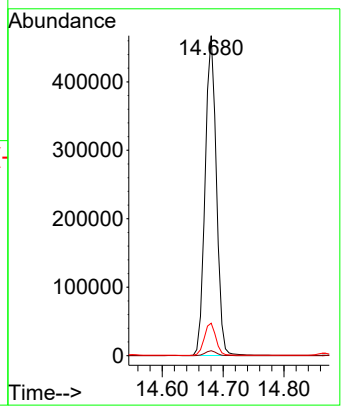


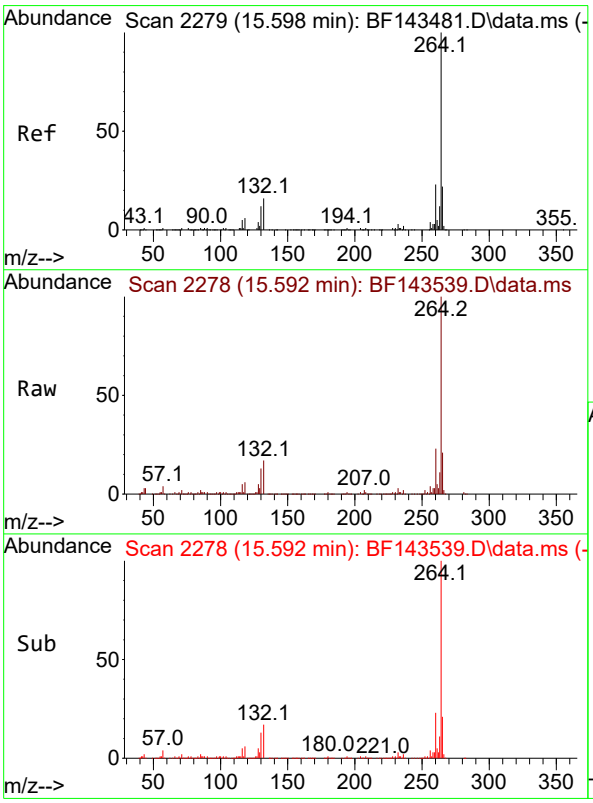
#85
Di-n-octyl phthalate
Concen: 42.167 ng
RT: 14.680 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:149 Resp: 600507

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.2	1.8
43	10.3	8.5	12.7

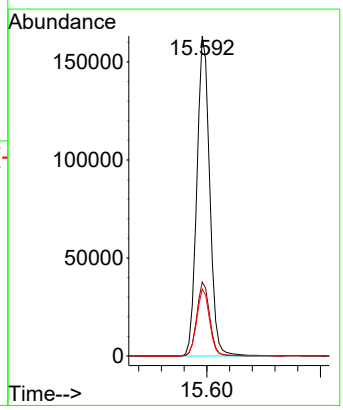


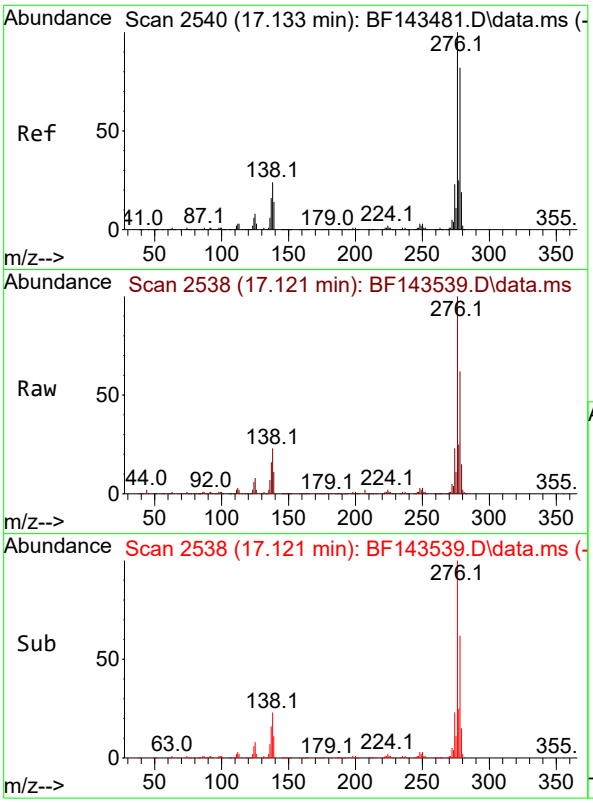


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.592 min Scan# 2278
Delta R.T. -0.006 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Tgt Ion:264 Resp: 256535

Ion	Ratio	Lower	Upper
264	100		
260	23.1	18.7	28.1
265	20.9	17.6	26.4



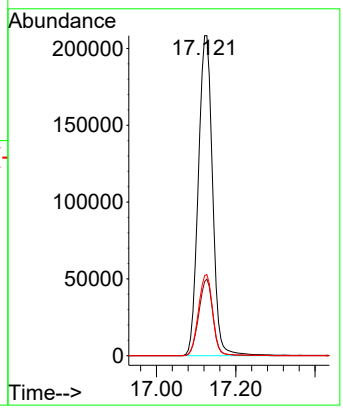


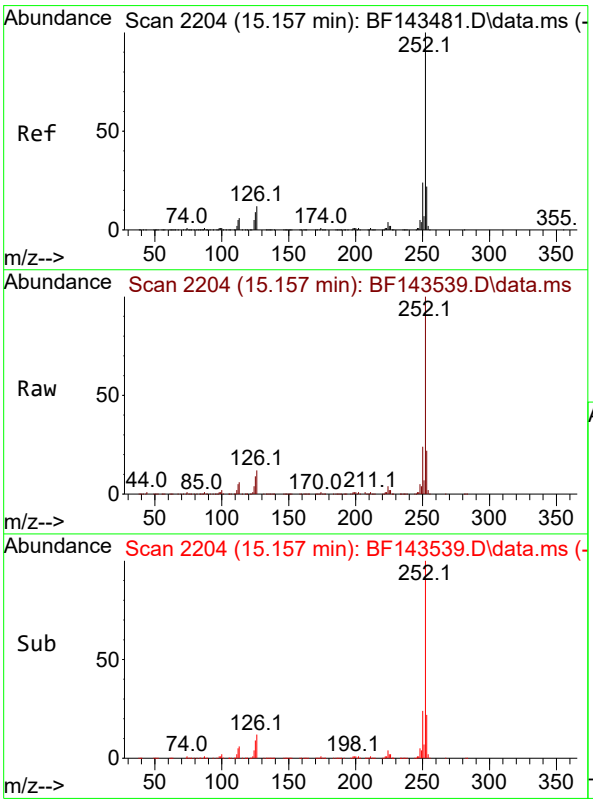
#87
Indeno(1,2,3-cd)pyrene
Concen: 28.150 ng
RT: 17.121 min Scan# 2
Delta R.T. -0.018 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:276 Resp: 518934

Ion	Ratio	Lower	Upper
276	100		
138	23.6	19.2	28.8
277	25.6	20.3	30.5

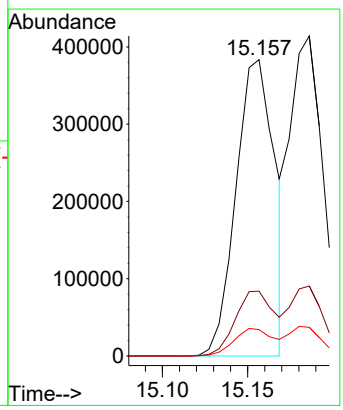


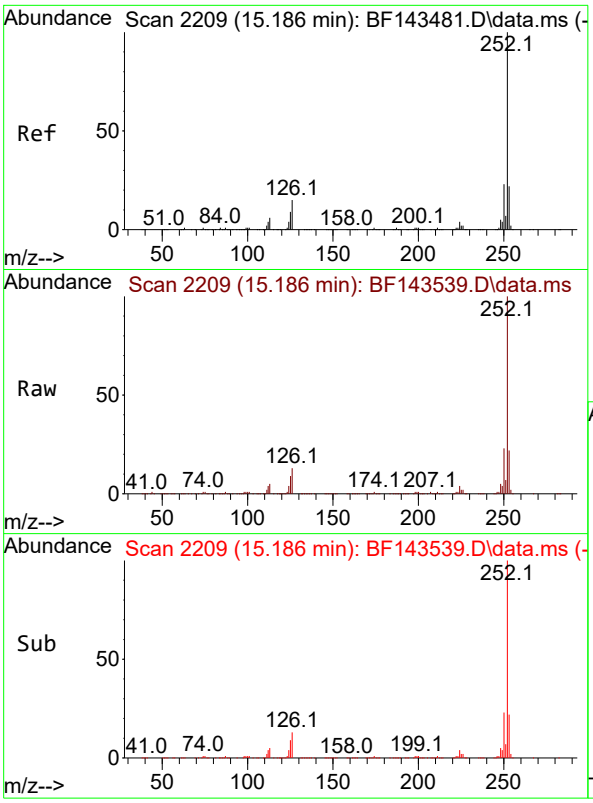


#88
Benzo(b)fluoranthene
Concen: 42.428 ng
RT: 15.157 min Scan# 2204
Delta R.T. 0.000 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Tgt Ion:252 Resp: 605018

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.5	26.3
125	8.9	7.4	11.0



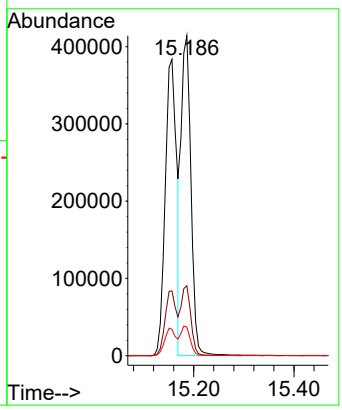


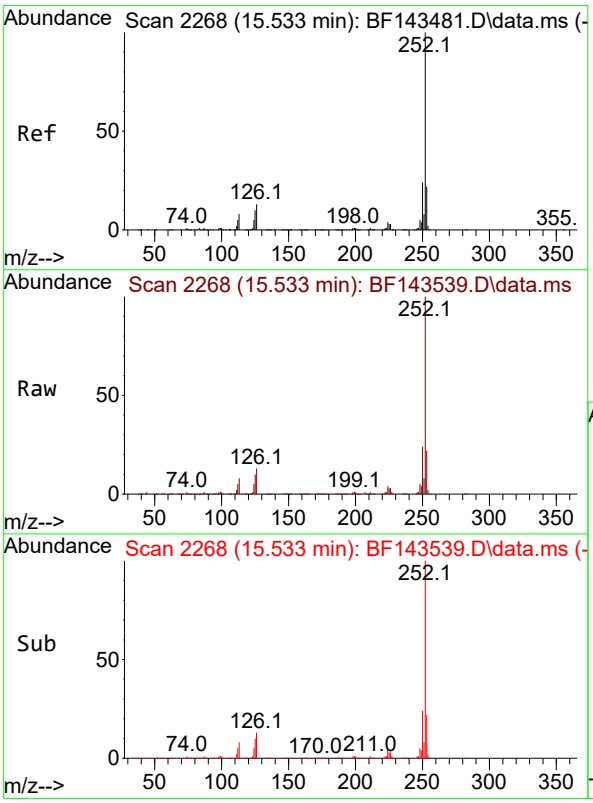
#89
Benzo(k)fluoranthene
Concen: 41.559 ng
RT: 15.186 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:252 Resp: 567409

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.4	26.2
125	8.9	7.4	11.0

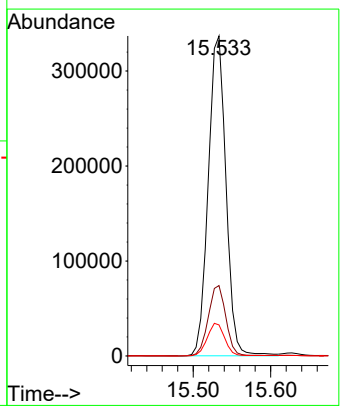


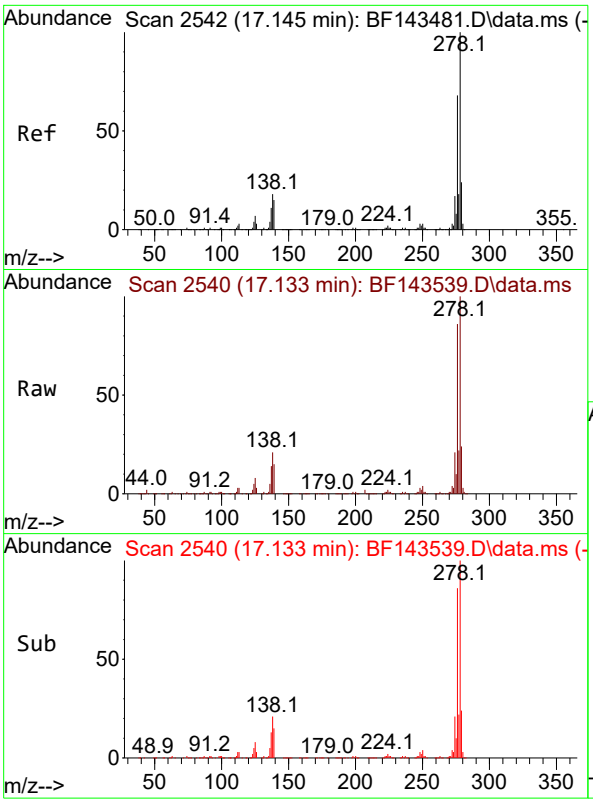


#90
Benzo(a)pyrene
Concen: 40.352 ng
RT: 15.533 min Scan# 2268
Delta R.T. -0.006 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Tgt Ion:252 Resp: 534103

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.4	26.0
125	9.7	8.2	12.2



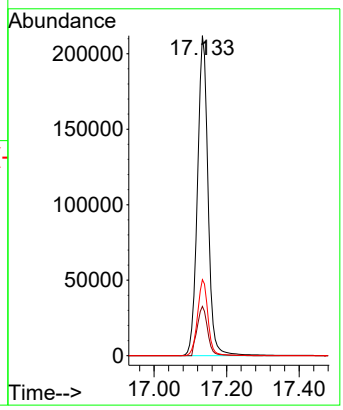


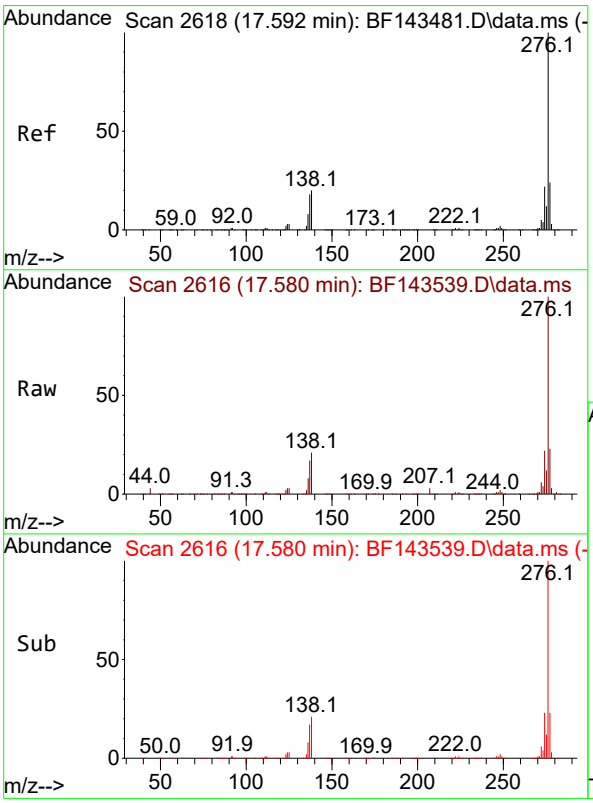
#91
Dibenzo(a,h)anthracene
Concen: 29.070 ng
RT: 17.133 min Scan# 2
Delta R.T. -0.023 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:278 Resp: 429182

Ion	Ratio	Lower	Upper
278	100		
139	15.4	12.1	18.1
279	23.8	19.2	28.8

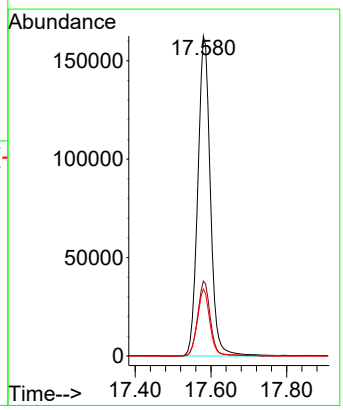




#92
Benzo(g,h,i)perylene
Concen: 25.578 ng
RT: 17.580 min Scan# 2616
Delta R.T. -0.023 min
Lab File: BF143539.D
Acq: 21 Aug 2025 19:32

Tgt Ion:276 Resp: 375504

Ion	Ratio	Lower	Upper
276	100		
277	23.4	18.9	28.3
138	20.9	16.3	24.5



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
Data File : BF143539.D
Acq On : 21 Aug 2025 19:32
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Aug 22 01:02:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 21 06:12:21 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	80	0.00
2		1,4-Dioxane	0.531	0.518	2.4	78	0.00
3		Pyridine	1.413	1.378	2.5	77	0.00
4		n-Nitrosodimethylamine	0.635	0.633	0.3	79	-0.02
5	S	2-Fluorophenol	1.145	1.138	0.6	80	0.00
6		Aniline	1.890	1.816	3.9	77	0.00
7	S	Phenol-d6	1.414	1.375	2.8	78	-0.01
8		2-Chlorophenol	1.265	1.247	1.4	79	0.00
9		Benzaldehyde	1.145	1.334	-16.5	89	0.00
10	C	Phenol	1.629	1.605	1.5	78	-0.01
11		bis(2-Chloroethyl)ether	1.217	1.180	3.0	78	0.00
12		1,3-Dichlorobenzene	1.421	1.381	2.8	78	0.00
13	C	1,4-Dichlorobenzene	1.426	1.405	1.5	80	0.00
14		1,2-Dichlorobenzene	1.350	1.316	2.5	78	0.00
15		Benzyl Alcohol	1.059	1.057	0.2	78	0.00
16		2,2'-oxybis(1-Chloropropane	1.947	1.836	5.7	75	0.00
17		2-Methylphenol	1.015	0.989	2.6	78	0.00
18		Hexachloroethane	0.485	0.487	-0.4	80	0.00
19	P	n-Nitroso-di-n-propylamine	0.864	0.843	2.4	80	-0.01
20		3+4-Methylphenols	1.212	1.209	0.2	80	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	77	0.00
22		Acetophenone	0.432	0.430	0.5	79	0.00
23	S	Nitrobenzene-d5	0.343	0.348	-1.5	78	-0.01
24		Nitrobenzene	0.353	0.363	-2.8	79	0.00
25		Isophorone	0.628	0.636	-1.3	79	-0.01
26	C	2-Nitrophenol	0.173	0.179	-3.5	78	0.00
27		2,4-Dimethylphenol	0.269	0.267	0.7	76	0.00
28		bis(2-Chloroethoxy)methane	0.386	0.385	0.3	77	0.00
29	C	2,4-Dichlorophenol	0.288	0.283	1.7	76	0.00
30		1,2,4-Trichlorobenzene	0.296	0.292	1.4	77	0.00
31		Naphthalene	0.960	0.942	1.9	77	0.00
32		Benzoic acid	0.137	0.118	13.9	63	-0.04
33		4-Chloroaniline	0.341	0.329	3.5	74	0.00
34	C	Hexachlorobutadiene	0.193	0.196	-1.6	79	0.00
35		Caprolactam	0.069	0.076	-10.1	82	-0.04
36	C	4-Chloro-3-methylphenol	0.288	0.279	3.1	75	0.00
37		2-Methylnaphthalene	0.641	0.620	3.3	75	0.00
38		1-Methylnaphthalene	0.613	0.583	4.9	75	0.00
39	I	Acenaphthene-d10	1.000	1.000	0.0	70	0.00
40		1,2,4,5-Tetrachlorobenzene	0.572	0.595	-4.0	74	0.00
41	P	Hexachlorocyclopentadiene	0.184	0.203	-10.3	72	0.00
42	S	2,4,6-Tribromophenol	0.186	0.167	10.2	62	0.00
43	C	2,4,6-Trichlorophenol	0.352	0.369	-4.8	71	0.00
44		2,4,5-Trichlorophenol	0.385	0.387	-0.5	71	0.00
45	S	2-Fluorobiphenyl	1.210	1.266	-4.6	77	0.00
46		1,1'-Biphenyl	1.420	1.484	-4.5	74	0.00
47		2-Chloronaphthalene	1.114	1.142	-2.5	72	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
Data File : BF143539.D
Acq On : 21 Aug 2025 19:32
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Aug 22 01:02:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 21 06:12:21 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	0.326	0.339	-4.0	70	0.00
49		Acenaphthylene	1.595	1.612	-1.1	71	0.00
50		Dimethylphthalate	1.205	1.333	-10.6	78	0.00
51		2,6-Dinitrotoluene	0.250	0.267	-6.8	72	-0.01
52	C	Acenaphthene	1.083	1.076	0.6	70	0.00
53		3-Nitroaniline	0.270	0.274	-1.5	69	0.00
54	P	2,4-Dinitrophenol	0.115	0.095	17.4	55	0.00
55		Dibenzofuran	1.544	1.507	2.4	69	0.00
56	P	4-Nitrophenol	0.161	0.175	-8.7	71	0.00
57		2,4-Dinitrotoluene	0.333	0.340	-2.1	68	-0.01
58		Fluorene	1.188	1.140	4.0	69	0.00
59		2,3,4,6-Tetrachlorophenol	0.286	0.270	5.6	64	0.00
60		Diethylphthalate	1.080	1.180	-9.3	76	0.00
61		4-Chlorophenyl-phenylether	0.594	0.588	1.0	70	0.00
62		4-Nitroaniline	0.248	0.244	1.6	67	-0.01
63		Azobenzene	1.120	1.091	2.6	68	0.00
64	I	Phenanthrene-d10	1.000	1.000	0.0	61	0.00
65		4,6-Dinitro-2-methylphenol	0.113	0.091	19.5	47#	-0.01
66	c	n-Nitrosodiphenylamine	0.644	0.713	-10.7	68	0.00
67		4-Bromophenyl-phenylether	0.239	0.259	-8.4	66	0.00
68		Hexachlorobenzene	0.257	0.263	-2.3	62	0.00
69		Atrazine	0.166	0.212	-27.7#	77	0.00
70	C	Pentachlorophenol	0.118	0.244	-106.8#	120	0.00
71		Phenanthrene	1.071	1.070	0.1	63	0.00
72		Anthracene	1.085	1.084	0.1	62	0.00
73		Carbazole	0.889	0.901	-1.3	62	0.00
74		Di-n-butylphthalate	0.829	1.069	-29.0#	77	0.00
75	C	Fluoranthene	0.961	0.984	-2.4	63	0.00
76	I	Chrysene-d12	1.000	1.000	0.0	90	0.00
77		Benzidine	0.487	0.436	10.5	76	0.00
78		Pyrene	1.645	1.215	26.1#	67	0.00
79	S	Terphenyl-d14	1.146	0.889	22.4	71	0.00
80		Butylbenzylphthalate	0.449	0.495	-10.2	95	0.00
81		Benzo(a)anthracene	1.288	1.260	2.2	86	0.00
82		3,3'-Dichlorobenzidine	0.369	0.389	-5.4	94	0.00
83		Chrysene	1.157	1.191	-2.9	96	0.00
84		Bis(2-ethylhexyl)phthalate	0.685	0.737	-7.6	93	0.00
85	c	Di-n-octyl phthalate	1.268	1.337	-5.4	93	0.00
86	I	Perylene-d12	1.000	1.000	0.0	89	0.00
87		Indeno(1,2,3-cd)pyrene	1.437	1.011	29.6#	62	-0.02
88		Benzo(b)fluoranthene	1.112	1.179	-6.0	98	0.00
89		Benzo(k)fluoranthene	1.064	1.106	-3.9	91	0.00
90	C	Benzo(a)pyrene	1.032	1.041	-0.9	90	0.00
91		Dibenzo(a,h)anthracene	1.151	0.836	27.4#	64	-0.02
92		Benzo(g,h,i)perylene	1.145	0.732	36.1#	56	-0.02

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
Data File : BF143539.D
Acq On : 21 Aug 2025 19:32
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Aug 22 01:02:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 21 06:12:21 2025
Response via : Initial Calibration

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

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 1

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
Data File : BF143539.D
Acq On : 21 Aug 2025 19:32
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Aug 22 01:02:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 21 06:12:21 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	80	0.00
2		1,4-Dioxane	40.000	39.072	2.3	78	0.00
3		Pyridine	40.000	39.009	2.5	77	0.00
4		n-Nitrosodimethylamine	40.000	39.860	0.4	79	-0.02
5	S	2-Fluorophenol	80.000	79.470	0.7	80	0.00
6		Aniline	40.000	38.435	3.9	77	0.00
7	S	Phenol-d6	80.000	77.784	2.8	78	-0.01
8		2-Chlorophenol	40.000	39.418	1.5	79	0.00
9		Benzaldehyde	40.000	46.616	-16.5	89	0.00
10	C	Phenol	40.000	39.425	1.4	78	-0.01
11		bis(2-Chloroethyl)ether	40.000	38.774	3.1	78	0.00
12		1,3-Dichlorobenzene	40.000	38.875	2.8	78	0.00
13	C	1,4-Dichlorobenzene	40.000	39.416	1.5	80	0.00
14		1,2-Dichlorobenzene	40.000	39.005	2.5	78	0.00
15		Benzyl Alcohol	40.000	39.937	0.2	78	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	37.707	5.7	75	0.00
17		2-Methylphenol	40.000	38.978	2.6	78	0.00
18		Hexachloroethane	40.000	40.177	-0.4	80	0.00
19	P	n-Nitroso-di-n-propylamine	40.000	39.035	2.4	80	-0.01
20		3+4-Methylphenols	40.000	39.911	0.2	80	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	77	0.00
22		Acetophenone	40.000	39.831	0.4	79	0.00
23	S	Nitrobenzene-d5	80.000	81.337	-1.7	78	-0.01
24		Nitrobenzene	40.000	41.188	-3.0	79	0.00
25		Isophorone	40.000	40.481	-1.2	79	-0.01
26	C	2-Nitrophenol	40.000	41.538	-3.8	78	0.00
27		2,4-Dimethylphenol	40.000	39.611	1.0	76	0.00
28		bis(2-Chloroethoxy)methane	40.000	39.904	0.2	77	0.00
29	C	2,4-Dichlorophenol	40.000	39.400	1.5	76	0.00
30		1,2,4-Trichlorobenzene	40.000	39.508	1.2	77	0.00
31		Naphthalene	40.000	39.258	1.9	77	0.00
32		Benzoic acid	40.000	32.943	17.6	63	-0.04
33		4-Chloroaniline	40.000	38.570	3.6	74	0.00
34	C	Hexachlorobutadiene	40.000	40.705	-1.8	79	0.00
35		Caprolactam	40.000	43.789	-9.5	82	-0.04
36	C	4-Chloro-3-methylphenol	40.000	38.769	3.1	75	0.00
37		2-Methylnaphthalene	40.000	38.680	3.3	75	0.00
38		1-Methylnaphthalene	40.000	38.013	5.0	75	0.00
39	I	Acenaphthene-d10	20.000	20.000	0.0	70	0.00
40		1,2,4,5-Tetrachlorobenzene	40.000	41.583	-4.0	74	0.00
41	P	Hexachlorocyclopentadiene	40.000	40.008	-0.0	72	0.00
42	S	2,4,6-Tribromophenol	80.000	71.678	10.4	62	0.00
43	C	2,4,6-Trichlorophenol	40.000	41.956	-4.9	71	0.00
44		2,4,5-Trichlorophenol	40.000	40.224	-0.6	71	0.00
45	S	2-Fluorobiphenyl	80.000	83.673	-4.6	77	0.00
46		1,1'-Biphenyl	40.000	41.811	-4.5	74	0.00
47		2-Chloronaphthalene	40.000	41.011	-2.5	72	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
Data File : BF143539.D
Acq On : 21 Aug 2025 19:32
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Aug 22 01:02:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 21 06:12:21 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	41.582	-4.0	70	0.00
49		Acenaphthylene	40.000	40.434	-1.1	71	0.00
50		Dimethylphthalate	40.000	44.261	-10.7	78	0.00
51		2,6-Dinitrotoluene	40.000	42.723	-6.8	72	-0.01
52	C	Acenaphthene	40.000	39.741	0.6	70	0.00
53		3-Nitroaniline	40.000	40.609	-1.5	69	0.00
54	P	2,4-Dinitrophenol	40.000	31.881	20.3	55	0.00
55		Dibenzofuran	40.000	39.052	2.4	69	0.00
56	P	4-Nitrophenol	40.000	43.542	-8.9	71	0.00
57		2,4-Dinitrotoluene	40.000	40.847	-2.1	68	-0.01
58		Fluorene	40.000	38.364	4.1	69	0.00
59		2,3,4,6-Tetrachlorophenol	40.000	37.783	5.5	64	0.00
60		Diethylphthalate	40.000	43.716	-9.3	76	0.00
61		4-Chlorophenyl-phenylether	40.000	39.562	1.1	70	0.00
62		4-Nitroaniline	40.000	39.469	1.3	67	-0.01
63		Azobenzene	40.000	38.969	2.6	68	0.00
64	I	Phenanthrene-d10	20.000	20.000	0.0	61	0.00
65		4,6-Dinitro-2-methylphenol	40.000	32.117	19.7	47	-0.01
66	c	n-Nitrosodiphenylamine	40.000	44.307	-10.8	68	0.00
67		4-Bromophenyl-phenylether	40.000	43.446	-8.6	66	0.00
68		Hexachlorobenzene	40.000	40.894	-2.2	62	0.00
69		Atrazine	40.000	51.067	-27.7#	77	0.00
70	C	Pentachlorophenol	40.000	82.680	-106.7#	120	0.00
71		Phenanthrene	40.000	39.974	0.1	63	0.00
72		Anthracene	40.000	39.947	0.1	62	0.00
73		Carbazole	40.000	40.531	-1.3	62	0.00
74		Di-n-butylphthalate	40.000	51.539	-28.8#	77	0.00
75	C	Fluoranthene	40.000	40.959	-2.4	63	0.00
76	I	Chrysene-d12	20.000	20.000	0.0	90	0.00
77		Benzidine	40.000	35.773	10.6	76	0.00
78		Pyrene	40.000	29.545	26.1#	67	0.00
79	S	Terphenyl-d14	80.000	62.064	22.4	71	0.00
80		Butylbenzylphthalate	40.000	44.044	-10.1	95	0.00
81		Benzo(a)anthracene	40.000	39.132	2.2	86	0.00
82		3,3'-Dichlorobenzidine	40.000	42.194	-5.5	94	0.00
83		Chrysene	40.000	41.167	-2.9	96	0.00
84		Bis(2-ethylhexyl)phthalate	40.000	43.053	-7.6	93	0.00
85	c	Di-n-octyl phthalate	40.000	42.167	-5.4	93	0.00
86	I	Perylene-d12	20.000	20.000	0.0	89	0.00
87		Indeno(1,2,3-cd)pyrene	40.000	28.150	29.6#	62	-0.02
88		Benzo(b)fluoranthene	40.000	42.428	-6.1	98	0.00
89		Benzo(k)fluoranthene	40.000	41.559	-3.9	91	0.00
90	C	Benzo(a)pyrene	40.000	40.352	-0.9	90	0.00
91		Dibenzo(a,h)anthracene	40.000	29.070	27.3#	64	-0.02
92		Benzo(g,h,i)perylene	40.000	25.578	36.1#	56	-0.02

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
Data File : BF143539.D
Acq On : 21 Aug 2025 19:32
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Aug 22 01:02:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 21 06:12:21 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

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: Alliance Contract: FIRS02

Lab Code: ACE SDG No.: Q2819

Instrument ID: BNA_P Calibration Date/Time: 08/19/2025 23:46

Lab File ID: BP025487.D Init. Calib. Date(s): 08/14/2025 08/14/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 12:33 17:24

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.204	1.204		0.0	
Benzaldehyde	1.082	0.876		-19.0	
Phenol-d6	1.544	1.570		1.7	
Phenol	1.620	1.661		2.5	20.0
bis(2-Chloroethyl)ether	1.263	1.268		0.4	
2-Chlorophenol	1.359	1.389		2.2	
2-Methylphenol	1.125	1.152		2.4	
2,2-oxybis(1-Chloropropane)	1.692	1.784		5.4	
Acetophenone	0.502	0.503		0.2	
3+4-Methylphenols	1.560	1.571		0.7	
n-Nitroso-di-n-propylamine	1.023	1.046	0.050	2.2	
Nitrobenzene-d5	0.395	0.401		1.5	
Hexachloroethane	0.563	0.566		0.5	
Nitrobenzene	0.353	0.362		2.5	
Isophorone	0.700	0.705		0.7	
2-Nitrophenol	0.181	0.185		2.2	20.0
2,4-Dimethylphenol	0.312	0.315		1.0	
bis(2-Chloroethoxy)methane	0.423	0.427		0.9	
2,4-Dichlorophenol	0.310	0.313		1.0	20.0
Naphthalene	1.040	1.035		-0.5	
4-Chloroaniline	0.459	0.467		1.7	
Hexachlorobutadiene	0.211	0.207		-1.9	20.0
Caprolactam	0.114	0.117		2.6	
4-Chloro-3-methylphenol	0.355	0.367		3.4	20.0
2-Methylnaphthalene	0.676	0.673		-0.4	
Hexachlorocyclopentadiene	0.349	0.402	0.050	15.2	
2,4,6-Trichlorophenol	0.390	0.400		2.6	20.0
2-Fluorobiphenyl	1.463	1.408		-3.8	
2,4,5-Trichlorophenol	0.427	0.443		3.7	
1,1-Biphenyl	1.453	1.462		0.6	
2-Chloronaphthalene	1.131	1.130		-0.1	
2-Nitroaniline	0.329	0.359		9.1	
Dimethylphthalate	1.465	1.503		2.6	
Acenaphthylene	1.871	1.889		1.0	
2,6-Dinitrotoluene	0.309	0.327		5.8	
3-Nitroaniline	0.347	0.367		5.8	
Acenaphthene	1.098	1.071		-2.5	20.0
2,4-Dinitrophenol	0.165	0.332	0.050	101.2	
4-Nitrophenol	0.285	0.301	0.050	5.6	

Form VII SV-1

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: Alliance Contract: FIRS02

Lab Code: ACE SDG No.: Q2819

Instrument ID: BNA_P Calibration Date/Time: 08/19/2025 23:46

Lab File ID: BP025487.D Init. Calib. Date(s): 08/14/2025 08/14/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 12:33 17:24

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.736	1.710		-1.5	
2,4-Dinitrotoluene	0.440	0.475		8.0	
Diethylphthalate	1.488	1.537		3.3	
4-Chlorophenyl-phenylether	0.681	0.664		-2.5	
Fluorene	1.370	1.332		-2.8	
4-Nitroaniline	0.356	0.368		3.4	
4,6-Dinitro-2-methylphenol	0.125	0.178		42.4	
n-Nitrosodiphenylamine	0.610	0.625		2.5	20.0
2,4,6-Tribromophenol	0.269	0.278		3.3	
4-Bromophenyl-phenylether	0.220	0.222		0.9	
Hexachlorobenzene	0.255	0.255		0.0	
Atrazine	0.228	0.232		1.8	
Pentachlorophenol	0.161	0.170		5.6	20.0
Phenanthrene	1.099	1.084		-1.4	
Anthracene	1.122	1.144		2.0	
Carbazole	1.057	1.052		-0.5	
Di-n-butylphthalate	1.300	1.333		2.5	
Fluoranthene	1.311	1.283		-2.1	20.0
Pyrene	1.300	1.285		-1.2	
Terphenyl-d14	1.093	1.061		-2.9	
Butylbenzylphthalate	0.589	0.605		2.7	
3,3-Dichlorobenzidine	0.497	0.485		-2.4	
Benzo(a)anthracene	1.319	1.302		-1.3	
Chrysene	1.235	1.231		-0.3	
Bis(2-ethylhexyl)phthalate	0.867	0.890		2.7	
Di-n-octyl phthalate	1.492	1.526		2.2	20.0
Benzo(b)fluoranthene	1.179	1.172		-0.6	
Benzo(k)fluoranthene	1.180	1.163		-1.4	
Benzo(a)pyrene	1.148	1.141		-0.6	20.0
Indeno(1,2,3-cd)pyrene	1.467	1.434		-2.2	
Dibenzo(a,h)anthracene	1.199	1.180		-1.6	
Benzo(g,h,i)perylene	1.178	1.150		-2.4	
1,2,4,5-Tetrachlorobenzene	0.578	0.572		-1.0	
1,4-Dioxane	0.472	0.461		-2.3	20.0
2,3,4,6-Tetrachlorophenol	0.377	0.388		2.9	

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081925\
Data File : BP025487.D
Acq On : 19 Aug 2025 23:46
Operator : CG/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Aug 20 02:26:31 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 08/20/2025
Supervised By :Jagrut Upadhyay 08/20/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.790	152	159158	20.000	ng	0.00
21) Naphthalene-d8	10.560	136	679178	20.000	ng	0.00
39) Acenaphthene-d10	14.413	164	450864	20.000	ng	0.00
64) Phenanthrene-d10	17.207	188	905283	20.000	ng	0.00
76) Chrysene-d12	21.642	240	932001	20.000	ng	0.00
86) Perylene-d12	25.012	264	1054169	20.000	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.407	112	766191	79.946	ng	0.00
7) Phenol-d6	6.966	99	999385	81.335	ng	0.00
23) Nitrobenzene-d5	8.931	82	1089412	81.140	ng	0.00
42) 2,4,6-Tribromophenol	15.919	330	501941	82.710	ng	0.00
45) 2-Fluorobiphenyl	13.019	172	2539096	76.967	ng	0.00
79) Terphenyl-d14	19.930	244	3955073	77.640	ng	0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	3.331	88	146798	39.105	ng	98
3) Pyridine	3.725	79	399648	38.896	ng	95
4) n-Nitrosodimethylamine	3.631	42	183947	43.424	ng	91
6) Aniline	7.119	93	673487	40.682	ng	98
8) 2-Chlorophenol	7.360	128	442242	40.892	ng	99
9) Benzaldehyde	6.937	77	278873	32.395	ng	97
10) Phenol	6.990	94	528660	41.003	ng	96
11) bis(2-Chloroethyl)ether	7.213	93	403740	40.176	ng	99
12) 1,3-Dichlorobenzene	7.678	146	477680	40.056	ng	99
13) 1,4-Dichlorobenzene	7.825	146	485332	39.818	ng	99
14) 1,2-Dichlorobenzene	8.137	146	470101	39.843	ng	100
15) Benzyl Alcohol	8.019	79	396938	40.657	ng	97
16) 2,2'-oxybis(1-Chloropr...	8.307	45	567987	42.192	ng	98
17) 2-Methylphenol	8.219	107	366688	40.950	ng	99
18) Hexachloroethane	8.860	117	180159	40.200	ng	97
19) n-Nitroso-di-n-propyla...	8.584	70	332906	40.903	ng	97
20) 3+4-Methylphenols	8.542	107	500121	40.292	ng	98
22) Acetophenone	8.595	105	683834	40.149	ng	98
24) Nitrobenzene	8.972	77	491390	40.951	ng	99
25) Isophorone	9.501	82	957661	40.304	ng	100
26) 2-Nitrophenol	9.678	139	251156	40.785	ng	99
27) 2,4-Dimethylphenol	9.736	122	428351	40.448	ng	98
28) bis(2-Chloroethoxy)met...	9.966	93	579381	40.338	ng	99
29) 2,4-Dichlorophenol	10.207	162	424988	40.398	ng	98
30) 1,2,4-Trichlorobenzene	10.425	180	449563	38.983	ng	100
31) Naphthalene	10.613	128	1406520	39.844	ng	99
32) Benzoic acid	9.895	122	408095	52.196	ng	97
33) 4-Chloroaniline	10.713	127	634028	40.661	ng	99
34) Hexachlorobutadiene	10.901	225	280821	39.100	ng	98
35) Caprolactam	11.501	113	158902	41.192	ng	98
36) 4-Chloro-3-methylphenol	11.836	107	498499	41.295	ng	98
37) 2-Methylnaphthalene	12.219	142	914456	39.806	ng	97
38) 1-Methylnaphthalene	12.436	142	964168	39.466	ng	100
40) 1,2,4,5-Tetrachloroben...	12.583	216	515884	39.618	ng	99
41) Hexachlorocyclopentadiene	12.566	237	362128	46.040	ng	99
43) 2,4,6-Trichlorophenol	12.825	196	360300	40.986	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081925\
Data File : BP025487.D
Acq On : 19 Aug 2025 23:46
Operator : CG/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Aug 20 02:26:31 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 08/20/2025
Supervised By :Jagrut Upadhyay 08/20/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.901	196	399763	41.492	ng	98
46) 1,1'-Biphenyl	13.230	154	1318412	40.264	ng	100
47) 2-Chloronaphthalene	13.272	162	1019352	39.989	ng	99
48) 2-Nitroaniline	13.466	65	324159	43.643	ng	98
49) Acenaphthylene	14.124	152	1703788	40.393	ng	100
50) Dimethylphthalate	13.854	163	1355491	41.055	ng	100
51) 2,6-Dinitrotoluene	13.972	165	294671	42.345	ng	93
52) Acenaphthene	14.472	154	965696	39.004	ng	99
53) 3-Nitroaniline	14.307	138	330858	42.258	ng	94
54) 2,4-Dinitrophenol	14.513	184	299007	80.460	ng	97
55) Dibenzofuran	14.813	168	1541513	39.380	ng	100
56) 4-Nitrophenol	14.624	139	271237	42.159	ng	97
57) 2,4-Dinitrotoluene	14.772	165	428628	43.171	ng	97
58) Fluorene	15.477	166	1201420	38.896	ng	100
59) 2,3,4,6-Tetrachlorophenol	15.042	232	350101	41.154	ng	98
60) Diethylphthalate	15.236	149	1386072	41.316	ng	99
61) 4-Chlorophenyl-phenyle...	15.466	204	598934	38.989	ng	96
62) 4-Nitroaniline	15.489	138	331726	41.329	ng	93
63) Azobenzene	15.766	77	1240846	43.196	ng	98
65) 4,6-Dinitro-2-methylph...	15.548	198	322240	57.103	ng	94
66) n-Nitrosodiphenylamine	15.683	169	1132449	41.022	ng	99
67) 4-Bromophenyl-phenylether	16.383	248	402714	40.448	ng	98
68) Hexachlorobenzene	16.501	284	461625	39.997	ng	97
69) Atrazine	16.654	200	420453	40.669	ng	99
70) Pentachlorophenol	16.848	266	307884	42.259	ng	98
71) Phenanthrene	17.242	178	1961812	39.449	ng	99
72) Anthracene	17.342	178	2071008	40.780	ng	99
73) Carbazole	17.618	167	1903889	39.801	ng	99
74) Di-n-butylphthalate	18.212	149	2414257	41.022	ng	100
75) Fluoranthene	19.324	202	2322167	39.147	ng	98
77) Benzidine	19.518	184	1232065	38.735	ng	100
78) Pyrene	19.701	202	2394461	39.527	ng	100
80) Butylbenzylphthalate	20.654	149	1127547	41.070	ng	98
81) Benzo(a)anthracene	21.624	228	2426505	39.477	ng	100
82) 3,3'-Dichlorobenzidine	21.542	252	903654	39.005	ng	98
83) Chrysene	21.689	228	2294146	39.855	ng	99
84) Bis(2-ethylhexyl)phtha...	21.571	149	1659835	41.071	ng	99
85) Di-n-octyl phthalate	22.853	149	2843533	40.906	ng	99
87) Indeno(1,2,3-cd)pyrene	28.841	276	3022360m	39.095	ng	
88) Benzo(b)fluoranthene	23.953	252	2471608	39.761	ng	99
89) Benzo(k)fluoranthene	24.030	252	2451237	39.407	ng	99
90) Benzo(a)pyrene	24.865	252	2406620	39.773	ng	99
91) Dibenzo(a,h)anthracene	28.941	278	2487038	39.366	ng	98
92) Benzo(g,h,i)perylene	30.047	276	2423566	39.026	ng	98

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081925\
Data File : BP025487.D
Acq On : 19 Aug 2025 23:46
Operator : CG/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Aug 20 02:26:31 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

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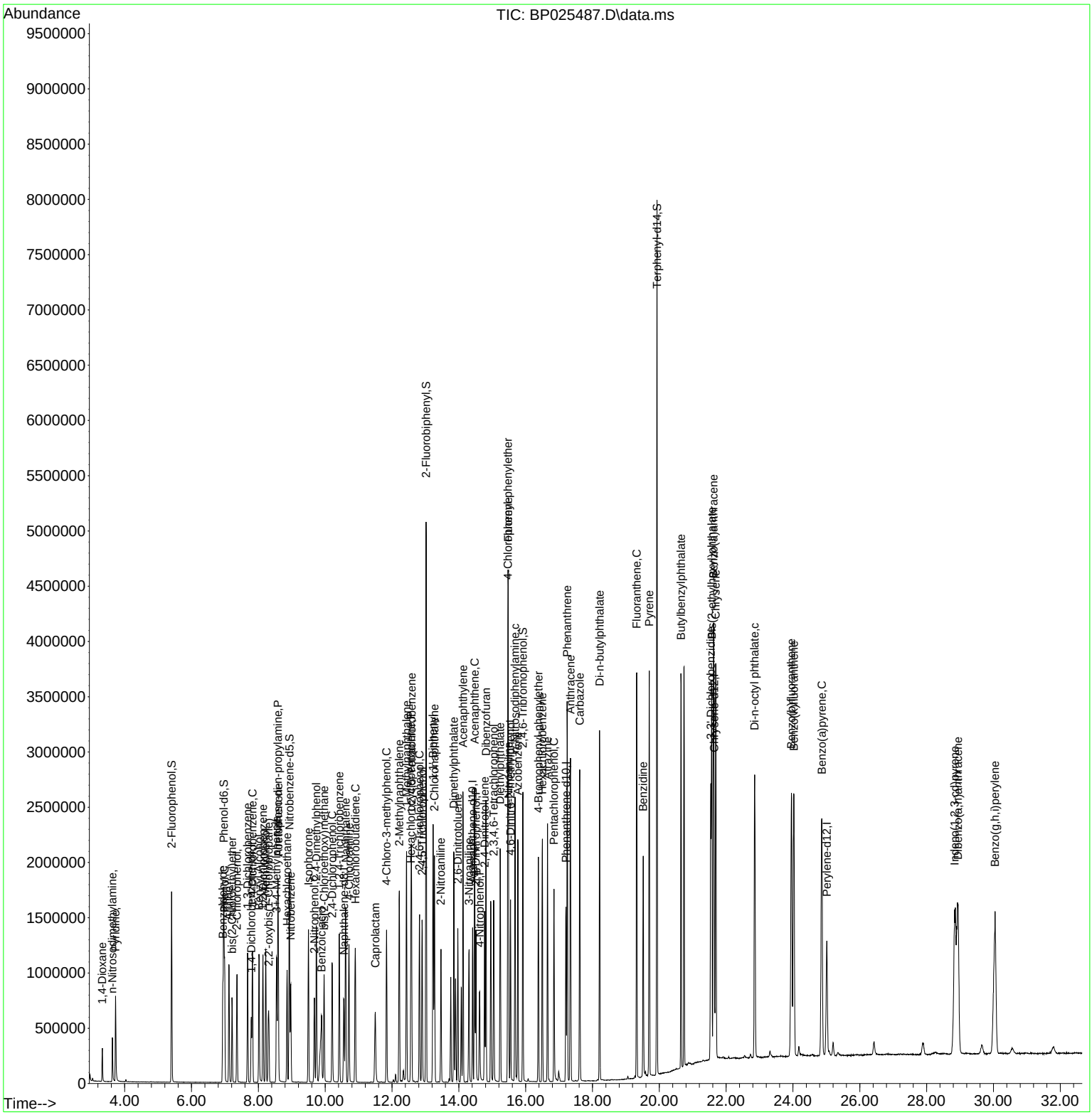
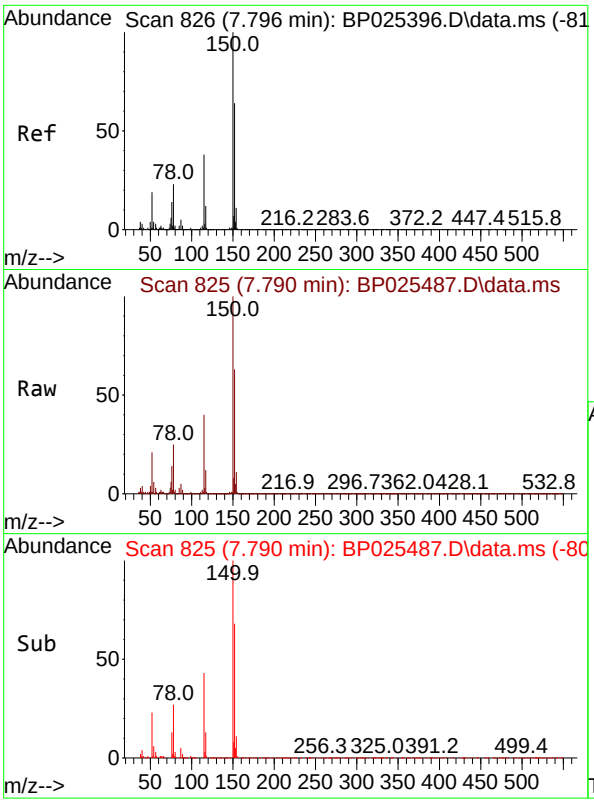
Supervised By :Jagrut Upadhyay 08/20/2025

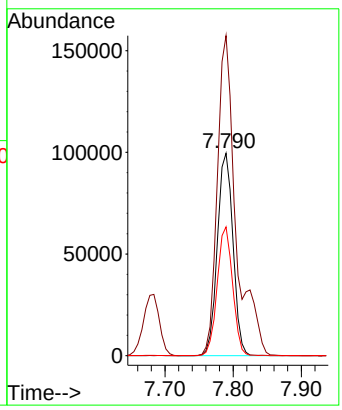




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.790 min Scan# 8
Delta R.T. -0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:152 Resp: 15915

Ion	Ratio	Lower	Upper
152	100		
150	158.1	125.9	188.9
115	63.6	48.5	72.7



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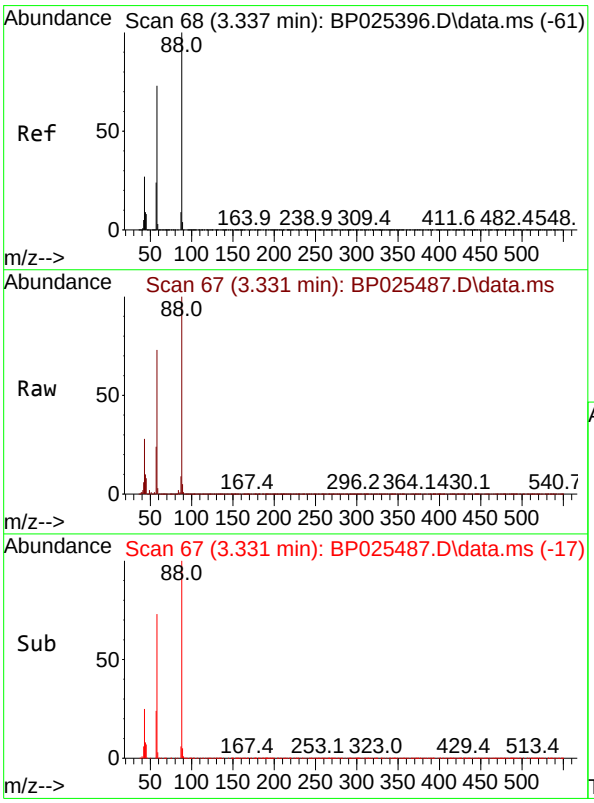
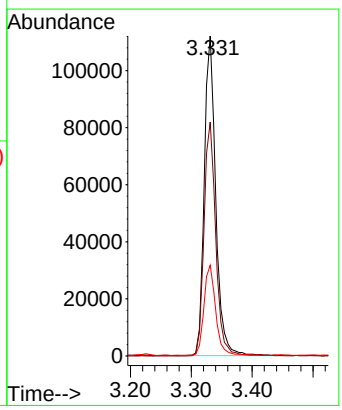
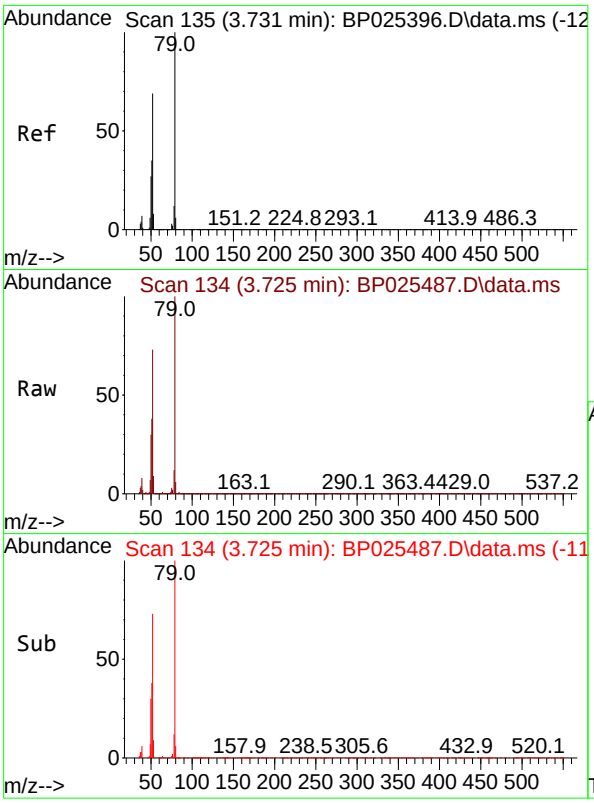


#2
1,4-Dioxane
Concen: 39.105 ng
RT: 3.331 min Scan# 67
Delta R.T. -0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion: 88 Resp: 146798

Ion	Ratio	Lower	Upper
88	100		
58	75.0	59.2	88.8
43	28.8	21.7	32.5

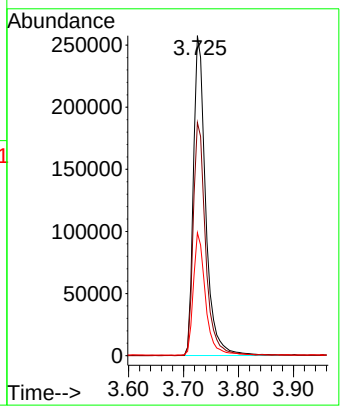




#3
Pyridine
Concen: 38.896 ng
RT: 3.725 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion: 79 Resp: 39964

Ion	Ratio	Lower	Upper
79	100		
52	72.9	55.5	83.3
51	38.4	28.3	42.5



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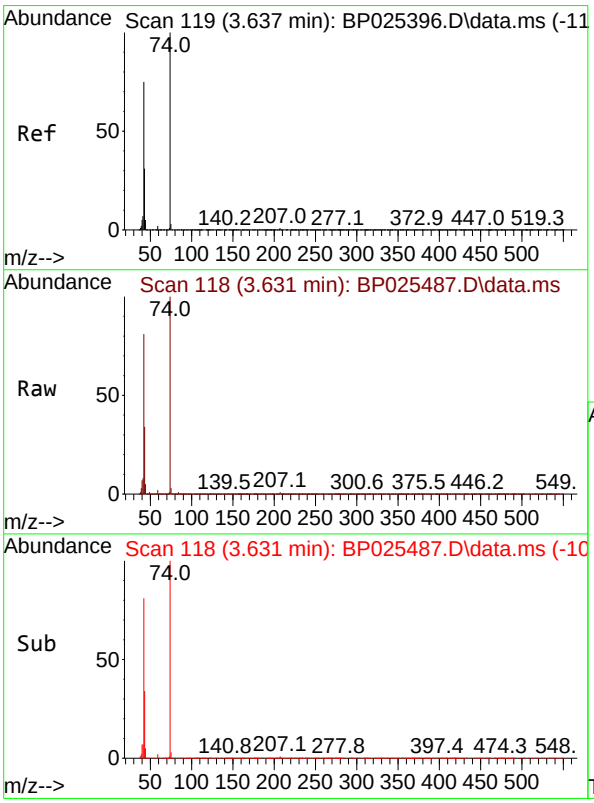
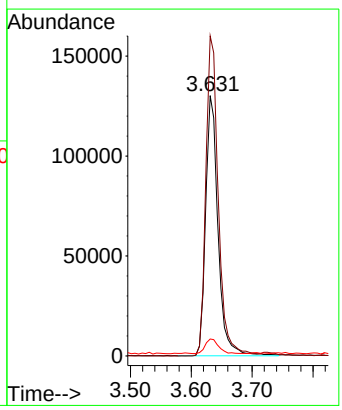
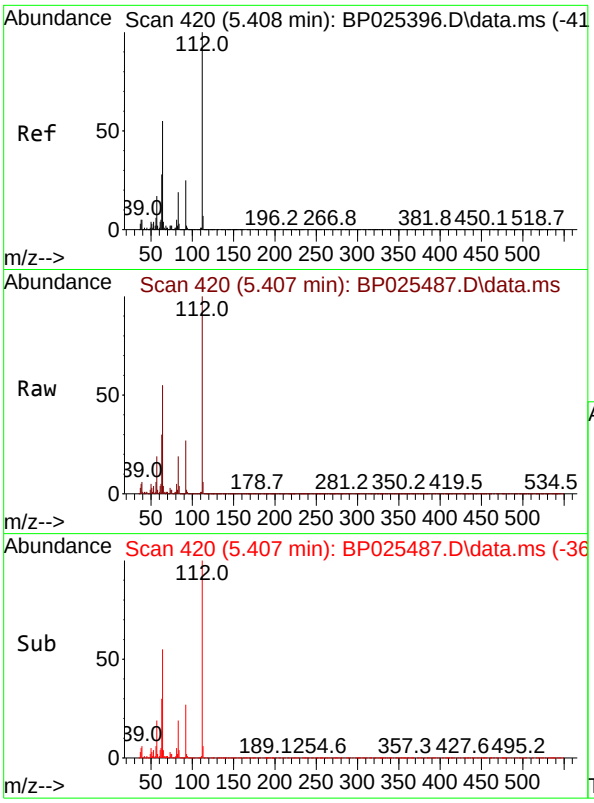


#4
n-Nitrosodimethylamine
Concen: 43.424 ng
RT: 3.631 min Scan# 118
Delta R.T. -0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion: 42 Resp: 183947

Ion	Ratio	Lower	Upper
42	100		
74	122.9	107.0	160.4
44	6.5	6.2	9.4





#5
2-Fluorophenol
Concen: 79.946 ng
RT: 5.407 min Scan# 4
Delta R.T. -0.000 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:112 Resp: 76619

Ion	Ratio	Lower	Upper
112	100		
64	55.4	43.8	65.8
63	29.7	22.7	34.1

Instrument :
BNA_P
ClientSampleId :
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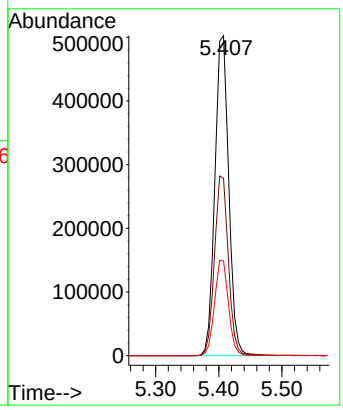
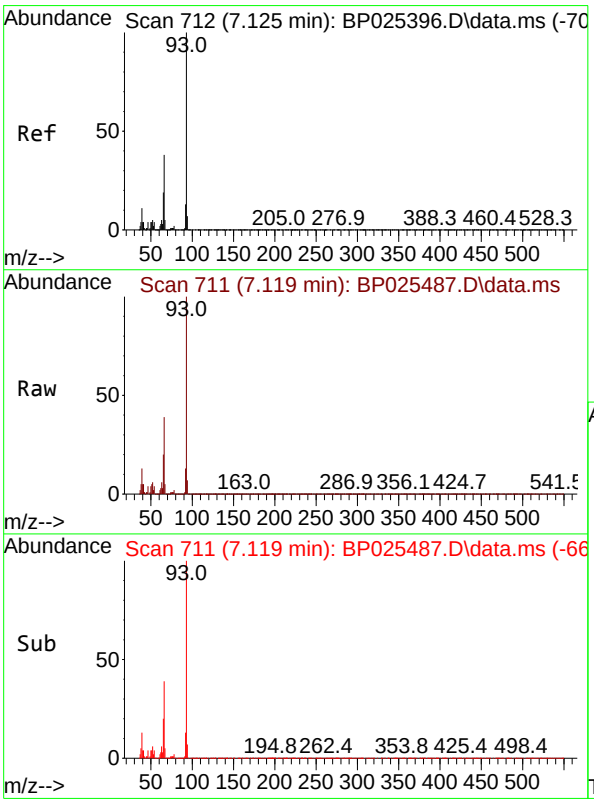
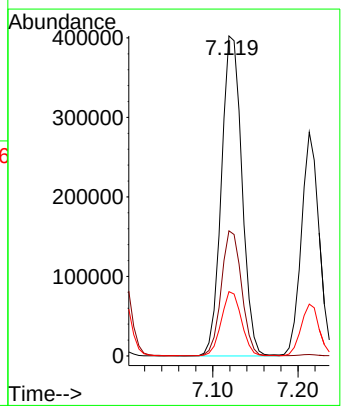


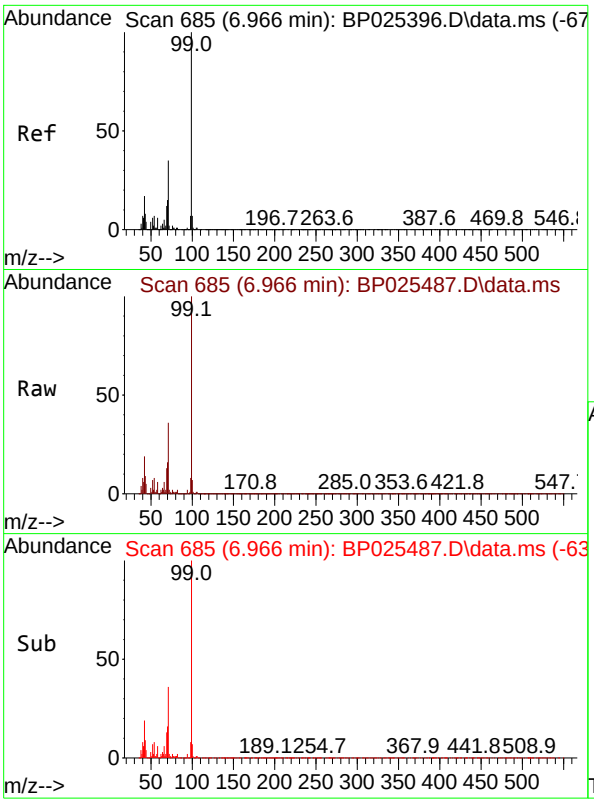


#6
Aniline
Concen: 40.682 ng
RT: 7.119 min Scan# 711
Delta R.T. -0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion: 93 Resp: 673487

Ion	Ratio	Lower	Upper
93	100		
66	39.1	30.4	45.6
65	20.1	15.3	22.9

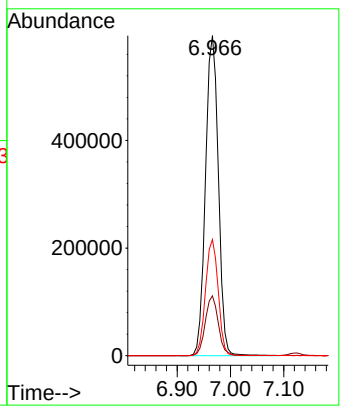




#7
Phenol-d6
Concen: 81.335 ng
RT: 6.966 min Scan# 6
Delta R.T. -0.000 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion: 99 Resp: 99938

Ion	Ratio	Lower	Upper
99	100		
42	18.7	13.7	20.5
71	36.3	28.2	42.4



Instrument :
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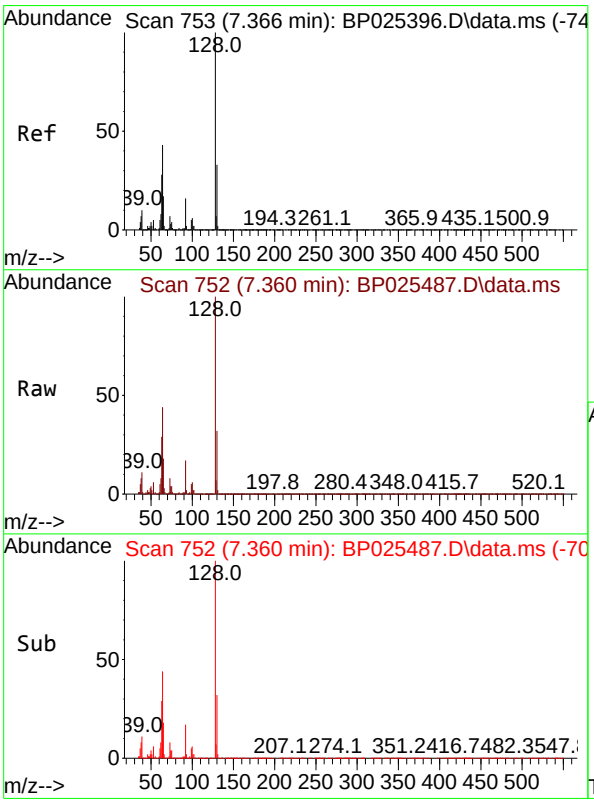
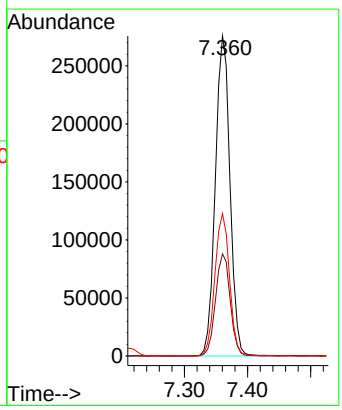
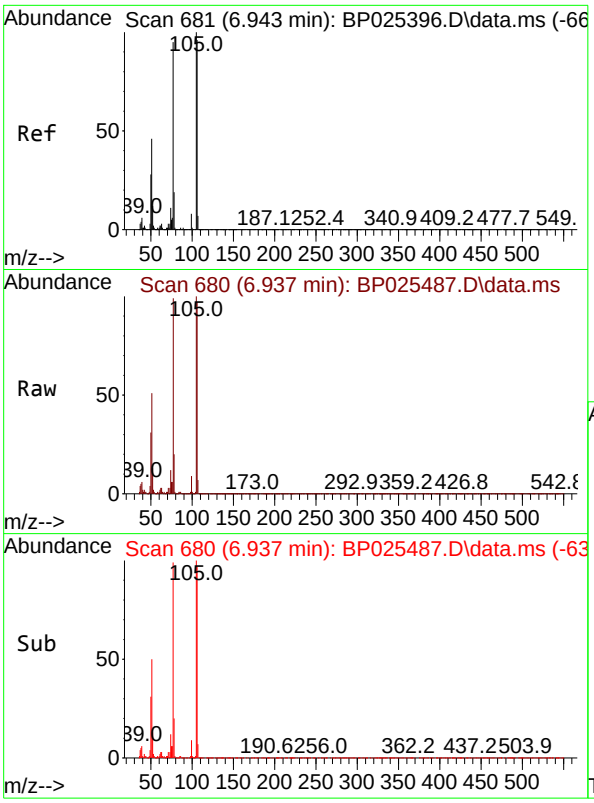


#8
2-Chlorophenol
Concen: 40.892 ng
RT: 7.360 min Scan# 752
Delta R.T. -0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:128 Resp: 442242

Ion	Ratio	Lower	Upper
128	100		
130	31.9	12.6	52.6
64	44.5	23.4	63.4

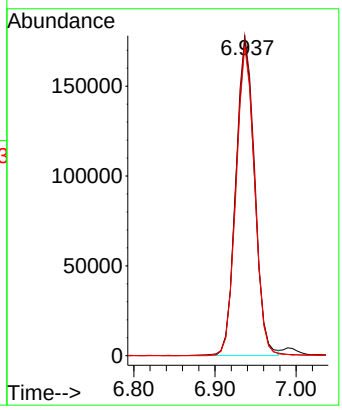




#9
Benzaldehyde
Concen: 32.395 ng
RT: 6.937 min Scan# 6
Delta R.T. -0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion: 77 Resp: 27887

Ion	Ratio	Lower	Upper
77	100		
105	101.2	84.8	124.8
106	97.9	80.5	120.5



Instrument :
BNA_P
ClientSampleId :
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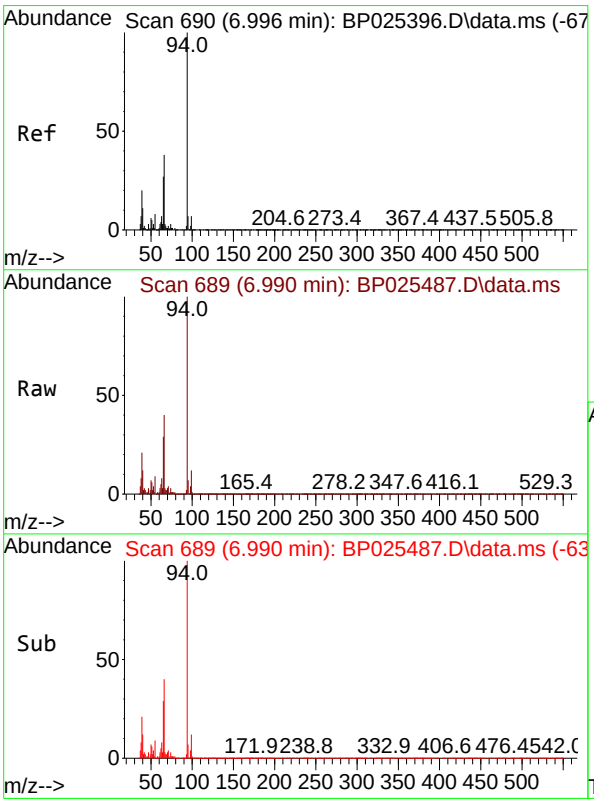
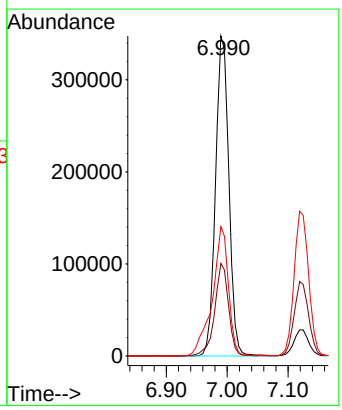
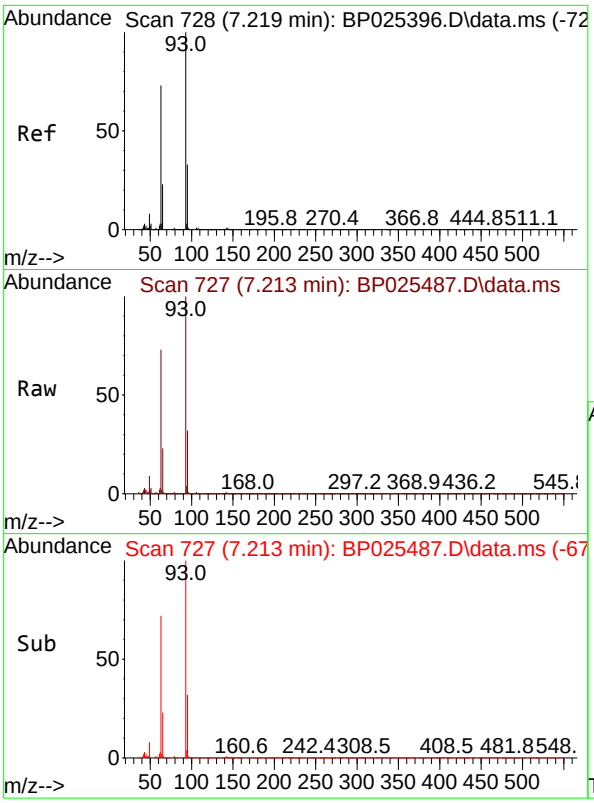


#10
Phenol
Concen: 41.003 ng
RT: 6.990 min Scan# 689
Delta R.T. -0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion: 94 Resp: 528660

Ion	Ratio	Lower	Upper
94	100		
65	28.9	6.8	46.8
66	40.4	18.2	58.2

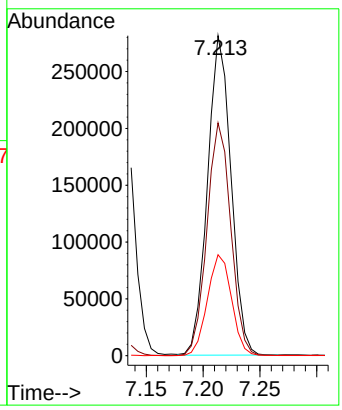




#11
bis(2-Chloroethyl)ether
Concen: 40.176 ng
RT: 7.213 min Scan# 7
Delta R.T. -0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion: 93 Resp: 40374

Ion	Ratio	Lower	Upper
93	100		
63	72.7	52.6	92.6
95	31.5	12.7	52.7



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

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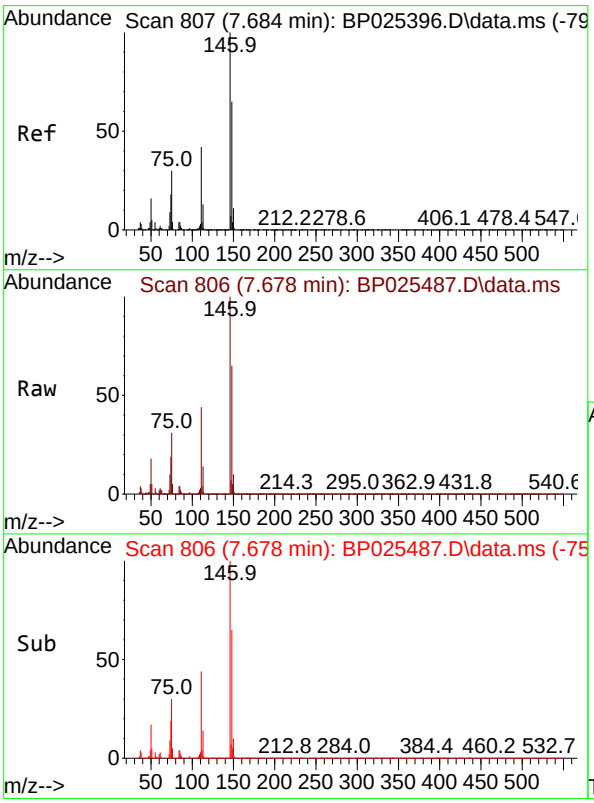
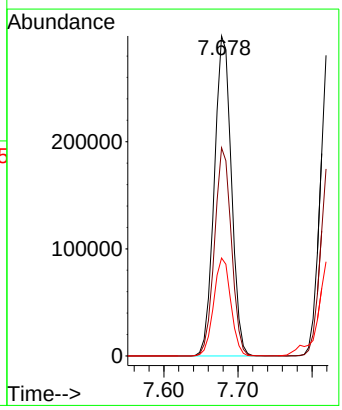
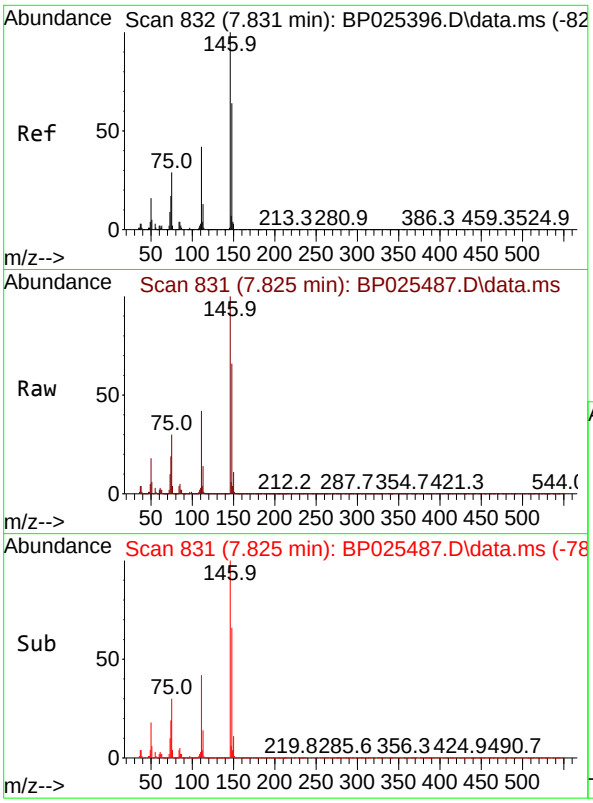


#12
1,3-Dichlorobenzene
Concen: 40.056 ng
RT: 7.678 min Scan# 806
Delta R.T. -0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:146 Resp: 477680

Ion	Ratio	Lower	Upper
146	100		
148	65.0	51.9	77.9
75	30.6	23.7	35.5

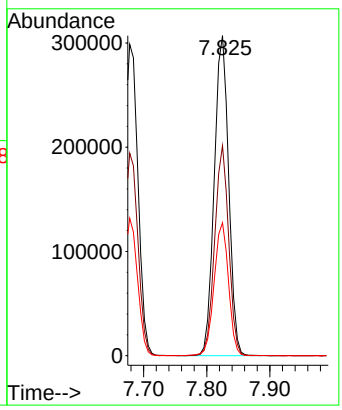




#13
1,4-Dichlorobenzene
Concen: 39.818 ng
RT: 7.825 min Scan# 8
Delta R.T. -0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:146 Resp: 48533

Ion	Ratio	Lower	Upper
146	100		
148	65.6	51.6	77.4
111	41.6	33.4	50.0



Instrument :
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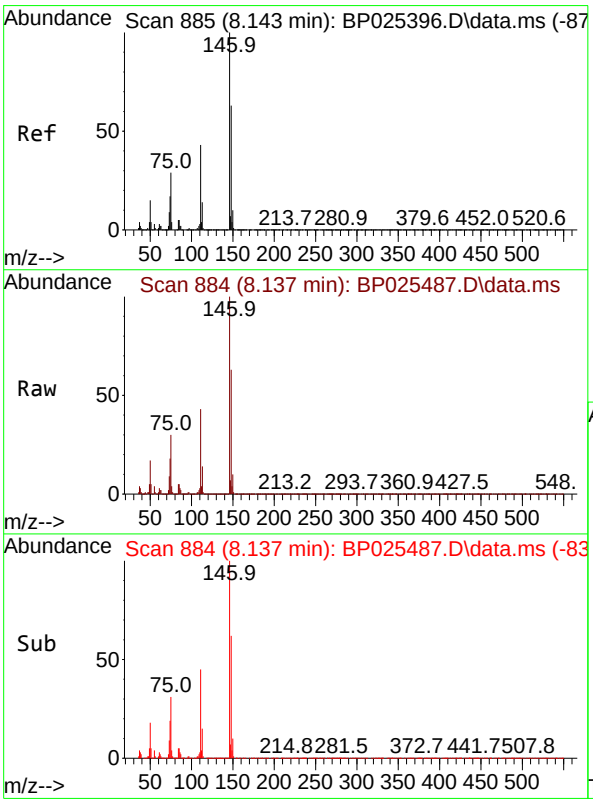
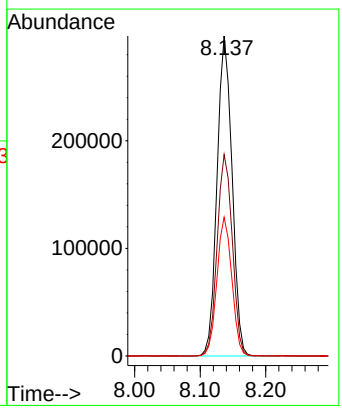
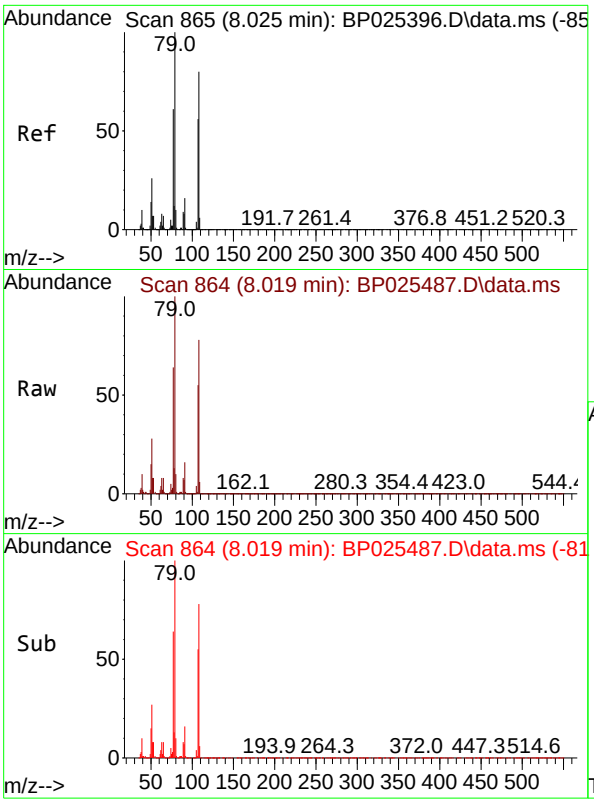


#14
1,2-Dichlorobenzene
Concen: 39.843 ng
RT: 8.137 min Scan# 884
Delta R.T. -0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:146 Resp: 470101

Ion	Ratio	Lower	Upper
146	100		
148	63.0	50.4	75.6
111	43.3	34.5	51.7





#15
Benzyl Alcohol
Concen: 40.657 ng
RT: 8.019 min Scan# 8
Delta R.T. -0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion: 79 Resp: 39693

Ion	Ratio	Lower	Upper
79	100		
108	77.6	63.8	95.6
77	64.0	49.0	73.4

Instrument :
BNA_P
ClientSampleId :
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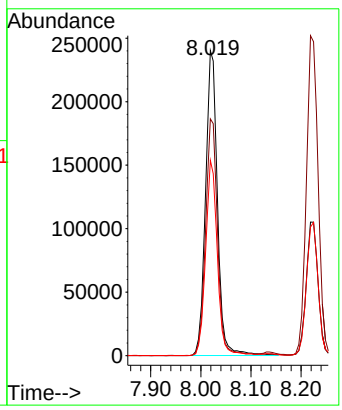
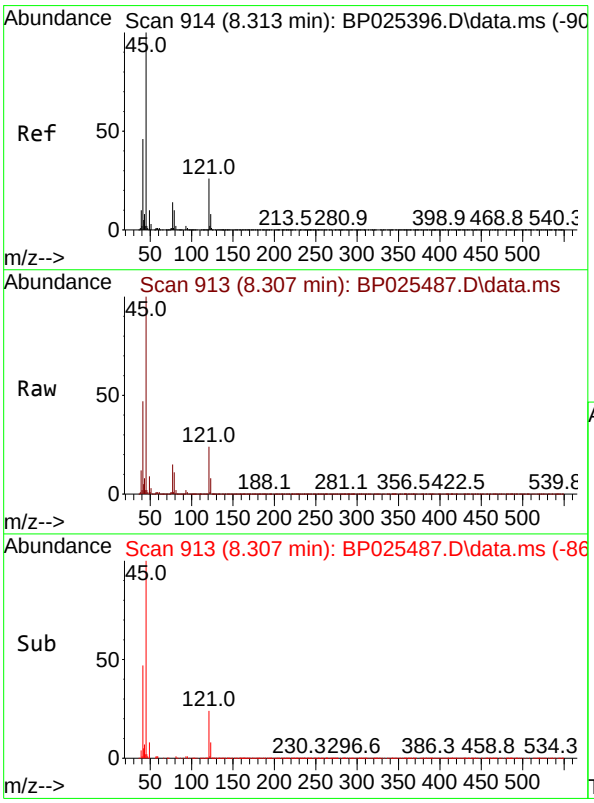
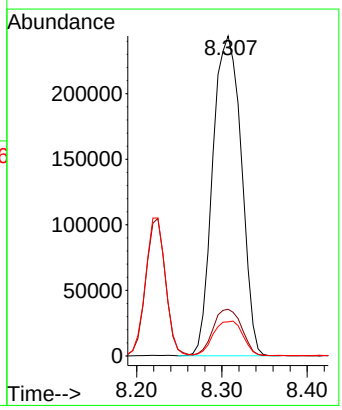


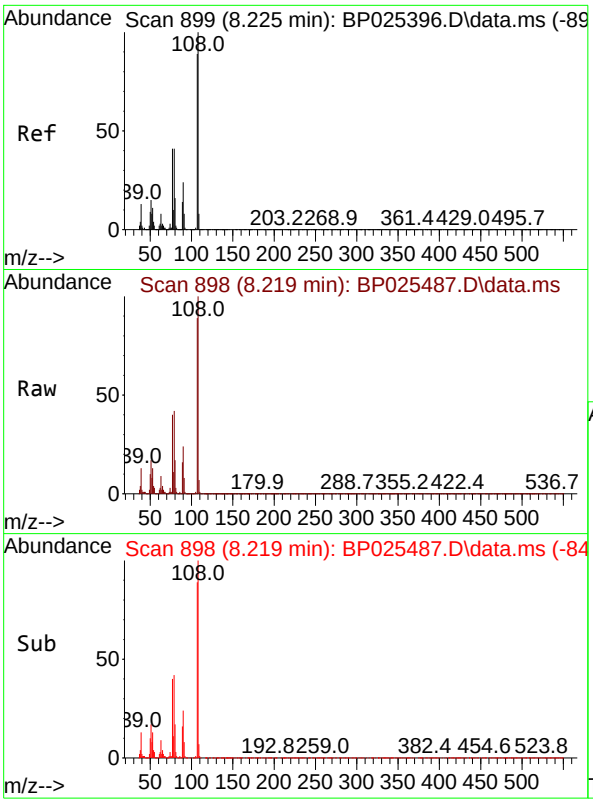


#16
2,2'-oxybis(1-Chloropropane)
Concen: 42.192 ng
RT: 8.307 min Scan# 913
Delta R.T. -0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion: 45 Resp: 567987

Ion	Ratio	Lower	Upper
45	100		
77	14.6	0.0	35.3
79	10.6	0.0	31.8

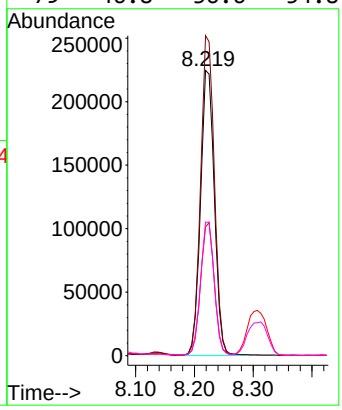




#17
2-Methylphenol
Concen: 40.950 ng
RT: 8.219 min Scan# 8
Delta R.T. -0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:107 Resp: 36668

Ion	Ratio	Lower	Upper
107	100		
108	112.2	89.4	134.0
77	45.1	36.3	54.5
79	46.8	36.6	54.8



Instrument :
BNA_P
ClientSampleId :
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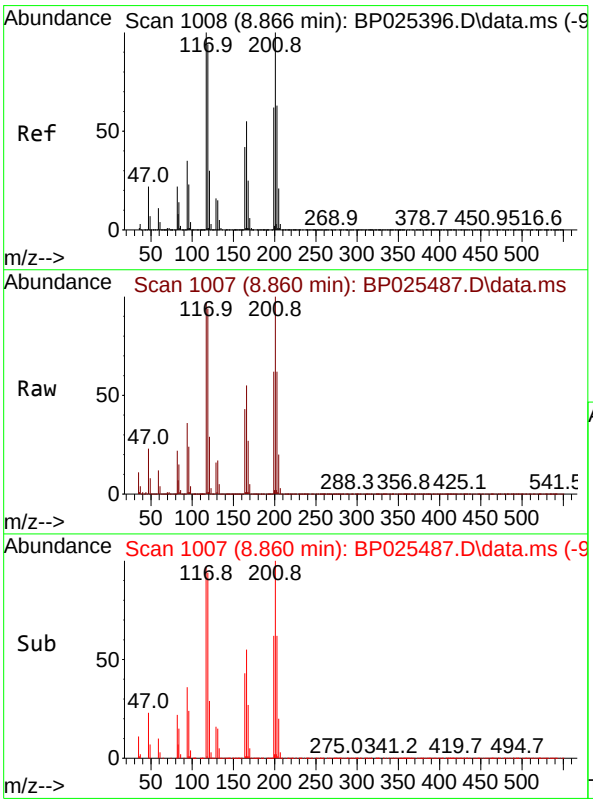
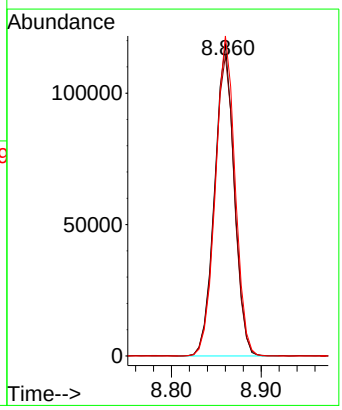
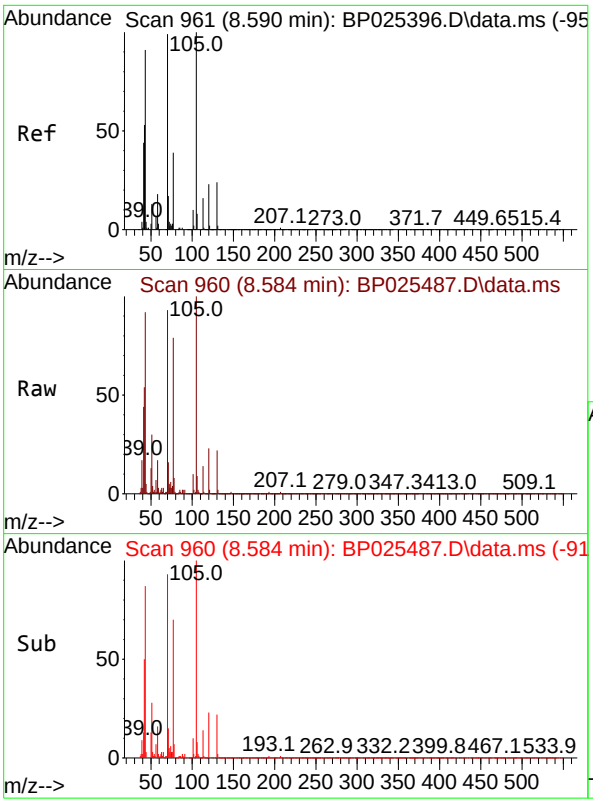


#18
Hexachloroethane
Concen: 40.200 ng
RT: 8.860 min Scan# 1007
Delta R.T. -0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:117 Resp: 180159

Ion	Ratio	Lower	Upper
117	100		
119	96.4	75.1	112.7
201	102.7	80.1	120.1

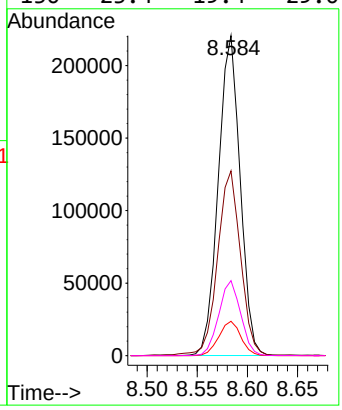




#19
n-Nitroso-di-n-propylamine
Concen: 40.903 ng
RT: 8.584 min Scan# 9(
Delta R.T. -0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion: 70 Resp: 33290(

Ion	Ratio	Lower	Upper
70	100		
42	57.8	43.8	65.6
101	10.7	8.5	12.7
130	23.4	19.4	29.0



Instrument :
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ClientSampleId :
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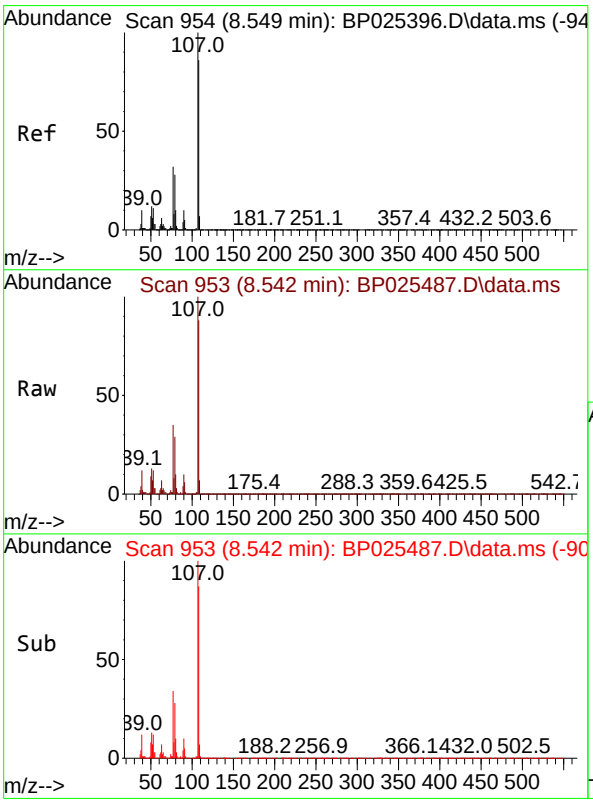
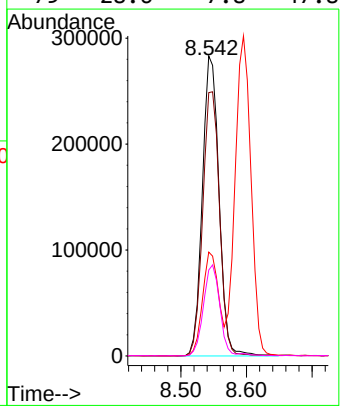
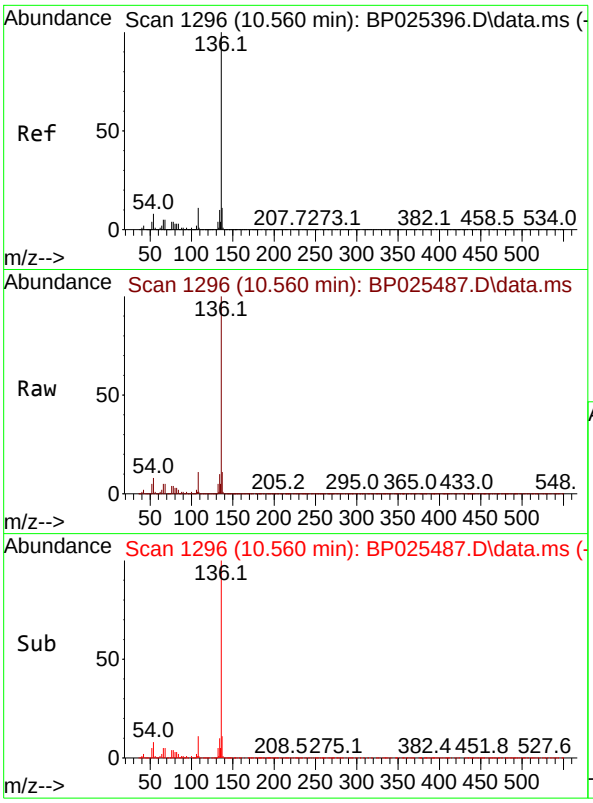


#20
3+4-Methylphenols
Concen: 40.292 ng
RT: 8.542 min Scan# 953
Delta R.T. -0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:107 Resp: 500121

Ion	Ratio	Lower	Upper
107	100		
108	87.8	66.3	106.3
77	34.6	12.3	52.3
79	28.6	7.8	47.8

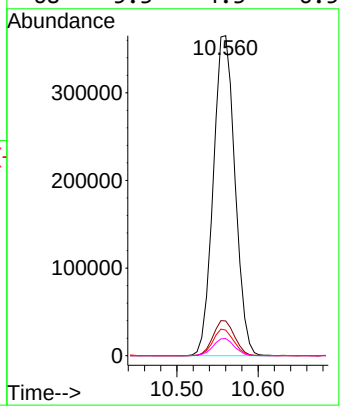




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.560 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:136 Resp: 67917

Ion	Ratio	Lower	Upper
136	100		
137	10.8	9.2	13.8
54	8.0	6.0	9.0
68	5.3	4.3	6.5



Instrument :
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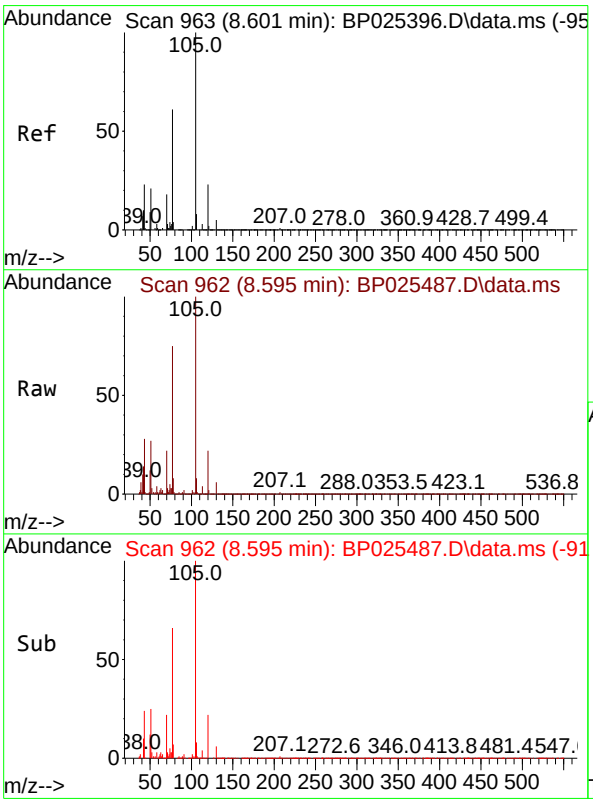
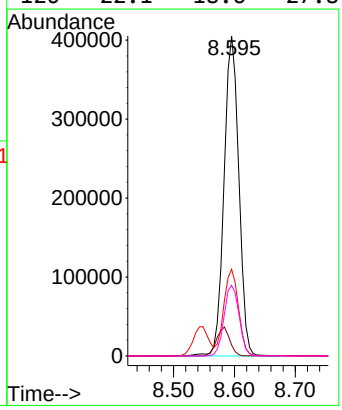
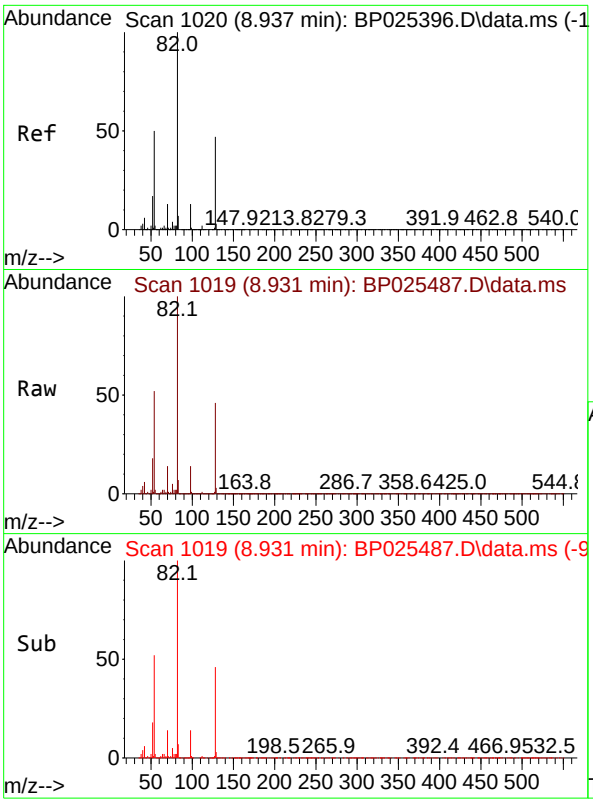


#22
Acetophenone
Concen: 40.149 ng
RT: 8.595 min Scan# 962
Delta R.T. -0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:105 Resp: 683834

Ion	Ratio	Lower	Upper
105	100		
71	3.4	2.6	4.0
51	27.1	20.6	30.8
120	22.1	18.6	27.8





#23
Nitrobenzene-d5
Concen: 81.140 ng
RT: 8.931 min Scan# 1(
Delta R.T. -0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion: 82 Resp: 108941

Ion	Ratio	Lower	Upper
82	100		
128	45.8	37.7	56.5
54	52.2	39.8	59.6

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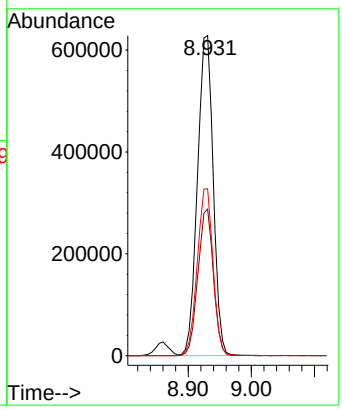
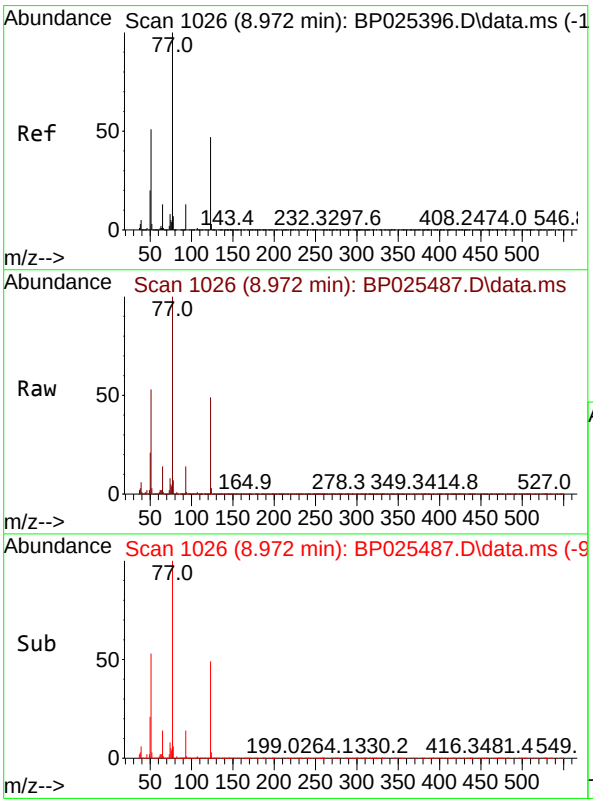
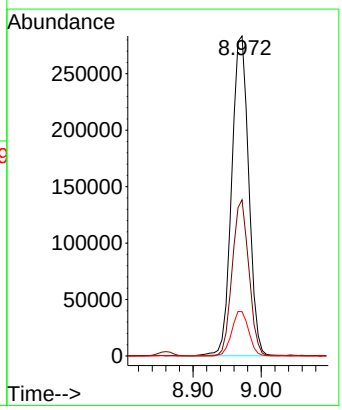


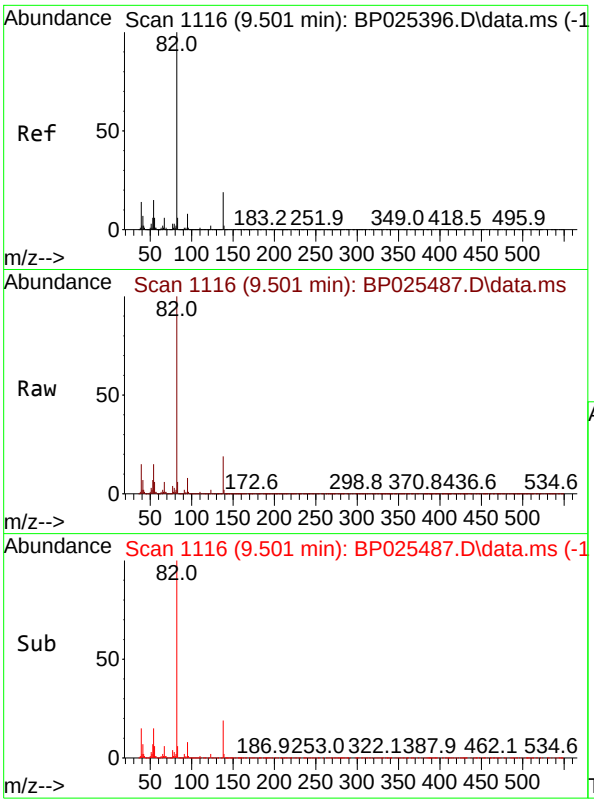


#24
Nitrobenzene
Concen: 40.951 ng
RT: 8.972 min Scan# 1026
Delta R.T. -0.000 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion: 77 Resp: 491390

Ion	Ratio	Lower	Upper
77	100		
123	48.8	38.6	58.0
65	13.9	10.6	15.8

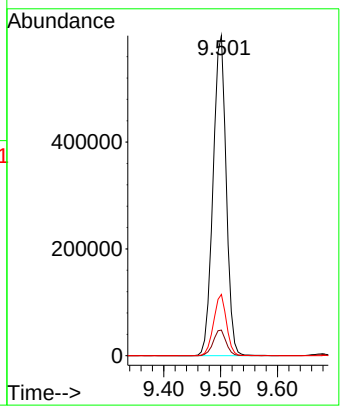




#25
Isophorone
Concen: 40.304 ng
RT: 9.501 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion: 82 Resp: 95766

Ion	Ratio	Lower	Upper
82	100		
95	8.0	6.4	9.6
138	19.2	15.4	23.0



Instrument :
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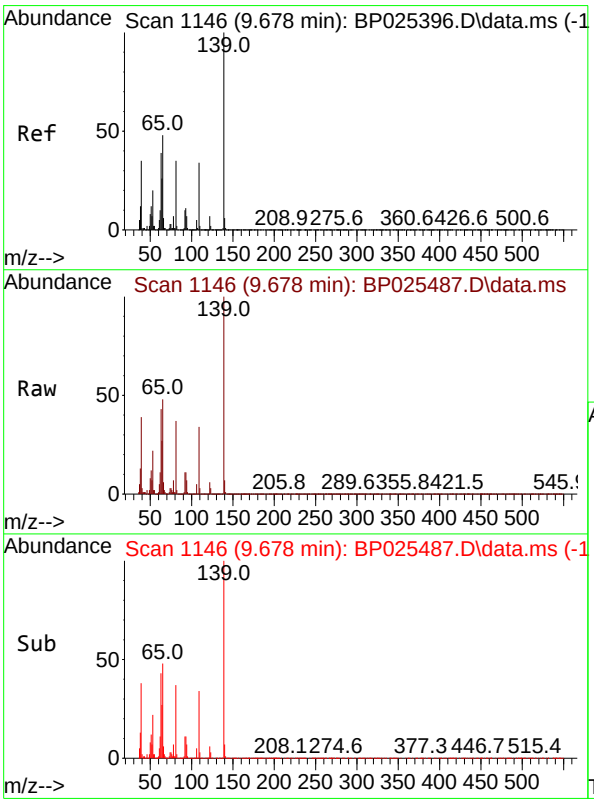
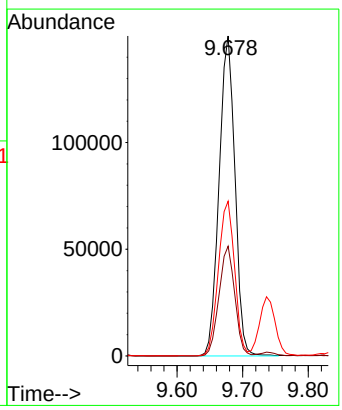
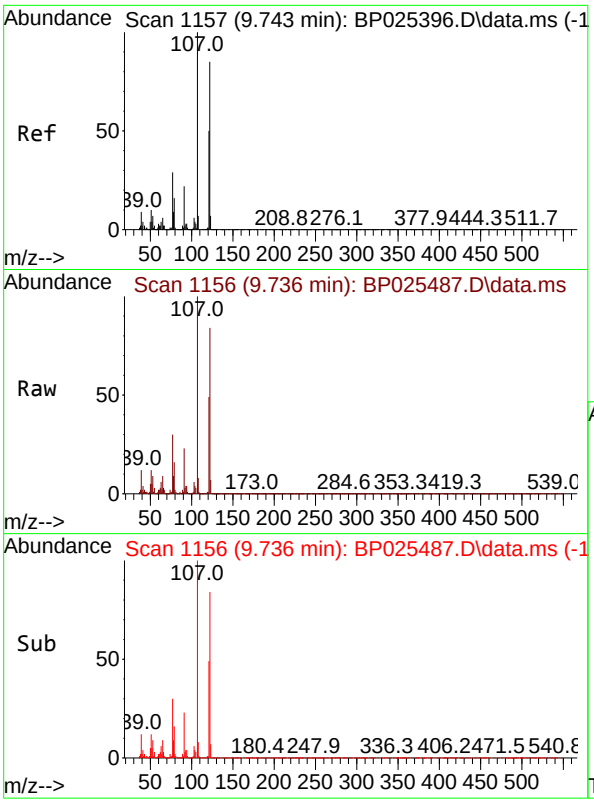


#26
2-Nitrophenol
Concen: 40.785 ng
RT: 9.678 min Scan# 1146
Delta R.T. -0.000 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:139 Resp: 251156

Ion	Ratio	Lower	Upper
139	100		
109	34.3	26.9	40.3
65	48.3	38.3	57.5

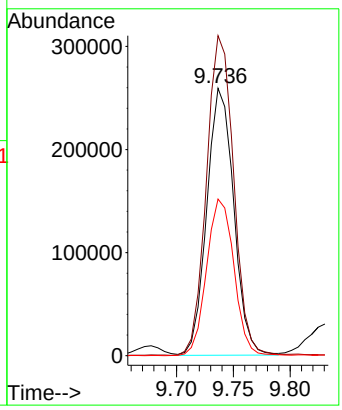




#27
2,4-Dimethylphenol
Concen: 40.448 ng
RT: 9.736 min Scan# 11
Delta R.T. -0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:122 Resp: 42835

Ion	Ratio	Lower	Upper
122	100		
107	119.7	93.7	140.5
121	58.6	46.6	69.8



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

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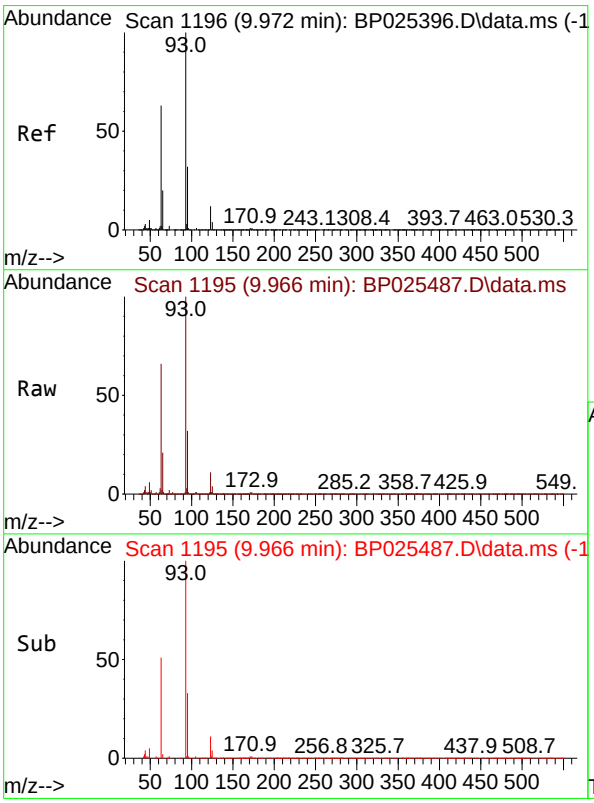
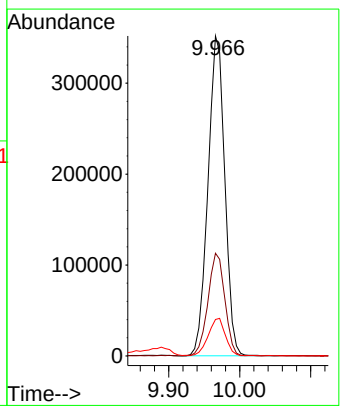
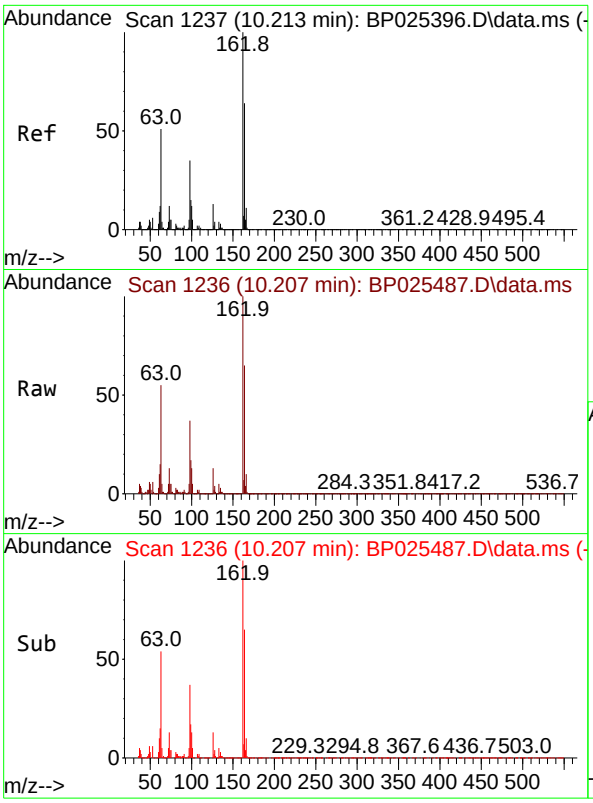


#28
bis(2-Chloroethoxy)methane
Concen: 40.338 ng
RT: 9.966 min Scan# 1195
Delta R.T. -0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion: 93 Resp: 579381

Ion	Ratio	Lower	Upper
93	100		
95	32.1	25.4	38.0
123	11.4	9.4	14.0

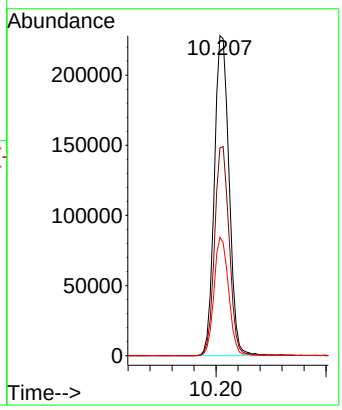




#29
2,4-Dichlorophenol
Concen: 40.398 ng
RT: 10.207 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:162 Resp: 42498

Ion	Ratio	Lower	Upper
162	100		
164	65.0	44.4	84.4
98	36.9	14.9	54.9



Instrument :
BNA_P
ClientSampleId :
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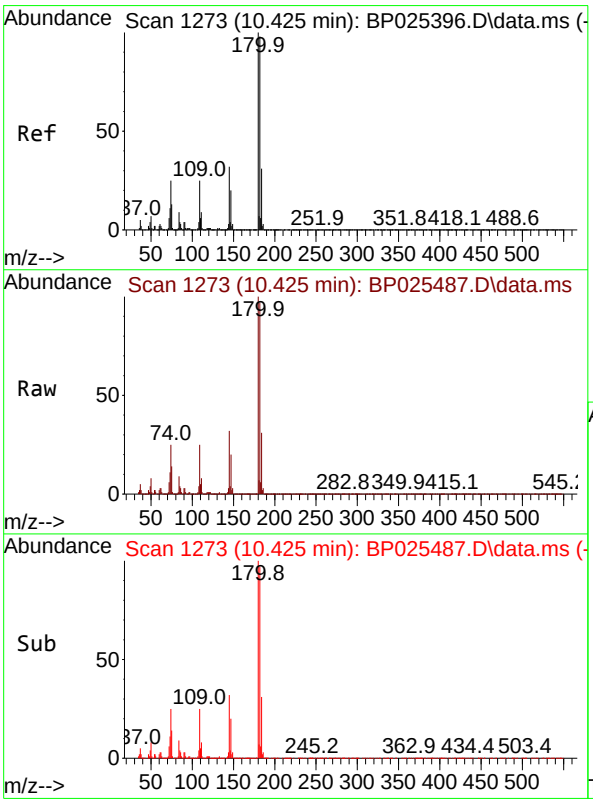
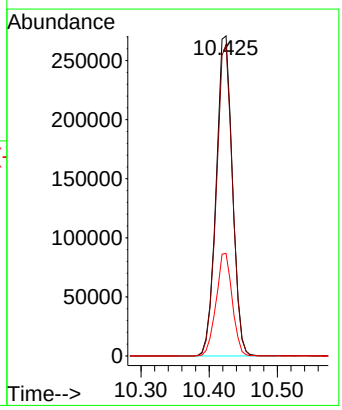
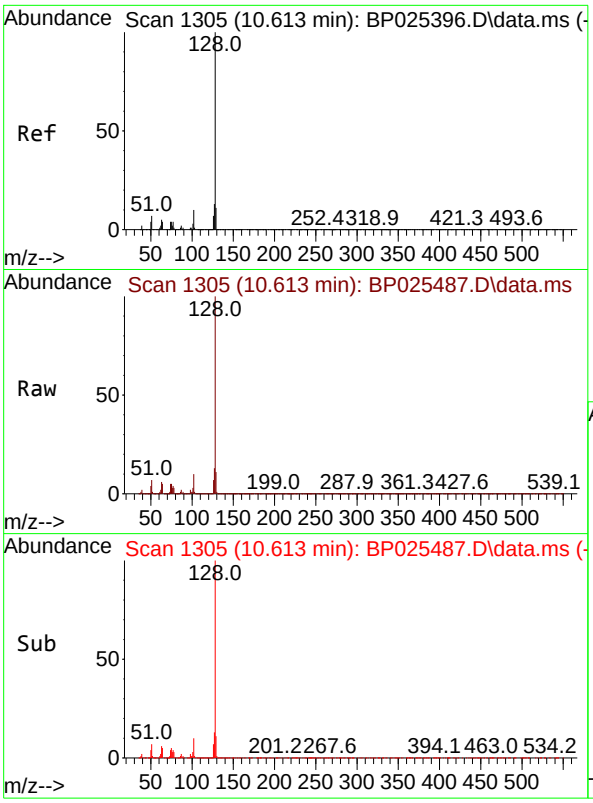


#30
1,2,4-Trichlorobenzene
Concen: 38.983 ng
RT: 10.425 min Scan# 1273
Delta R.T. -0.000 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:180 Resp: 449563

Ion	Ratio	Lower	Upper
180	100		
182	97.3	78.0	117.0
145	32.1	25.9	38.9

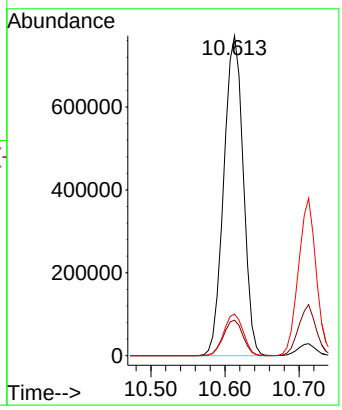




#31
Naphthalene
Concen: 39.844 ng
RT: 10.613 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:128 Resp: 140652

Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.6	13.0
127	13.0	10.7	16.1



Instrument :
BNA_P
ClientSampleId :
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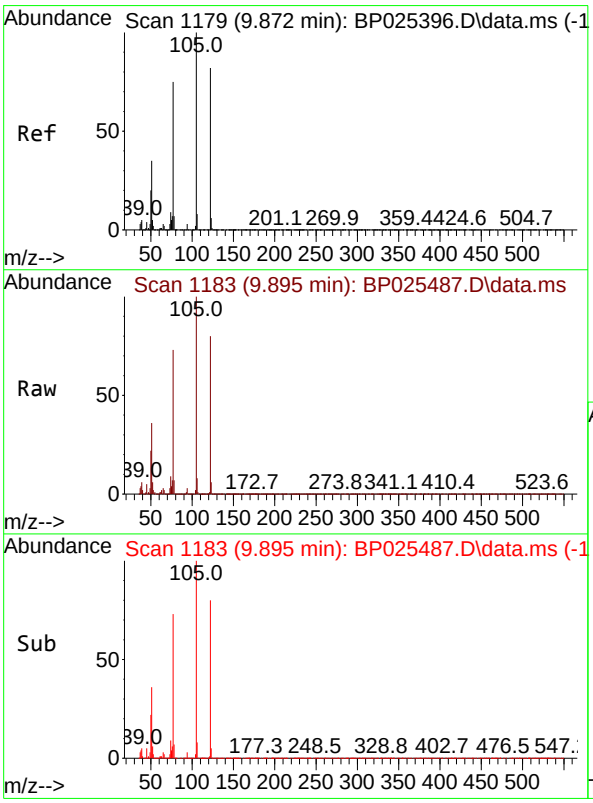
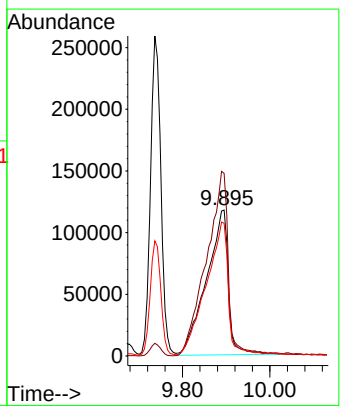
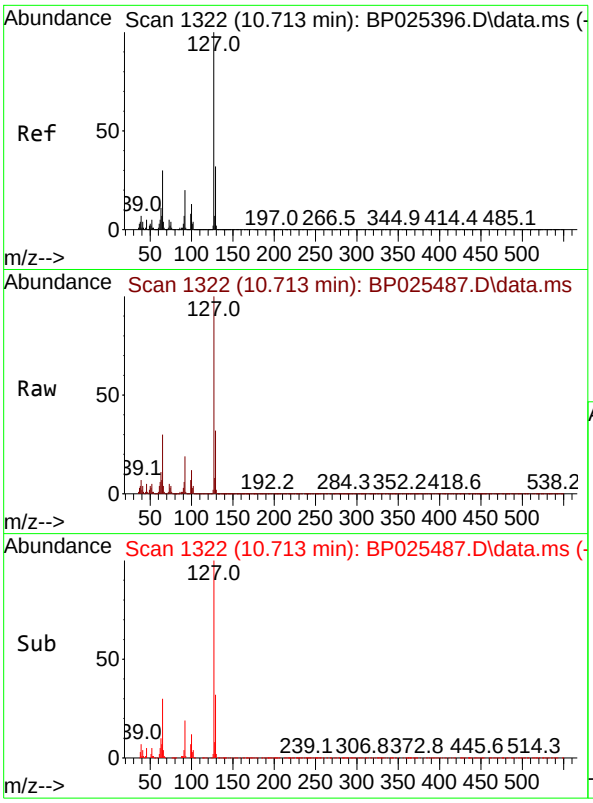


#32
Benzoic acid
Concen: 52.196 ng
RT: 9.895 min Scan# 1183
Delta R.T. 0.023 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:122 Resp: 408095

Ion	Ratio	Lower	Upper
122	100		
105	125.2	100.6	140.6
77	91.0	71.5	111.5

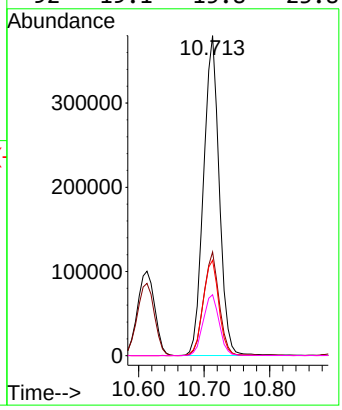




#33
4-Chloroaniline
Concen: 40.661 ng
RT: 10.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:127 Resp: 63402

Ion	Ratio	Lower	Upper
127	100		
129	32.4	25.4	38.2
65	29.8	23.8	35.6
92	19.1	15.8	23.8



Instrument :
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ClientSampleId :
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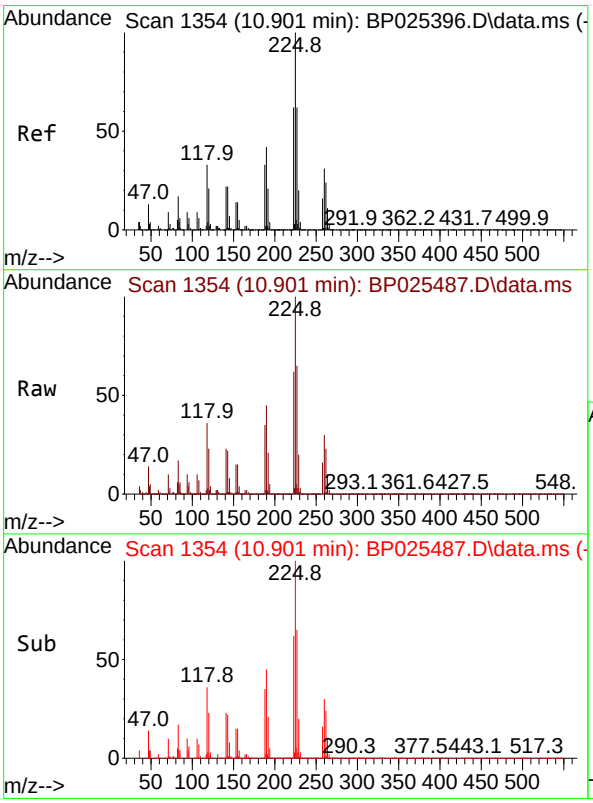
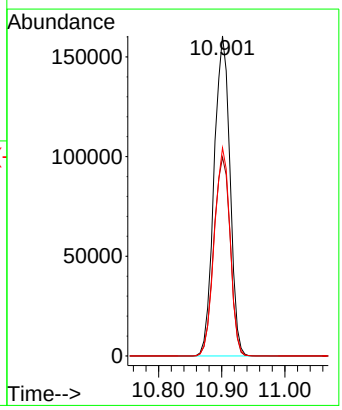
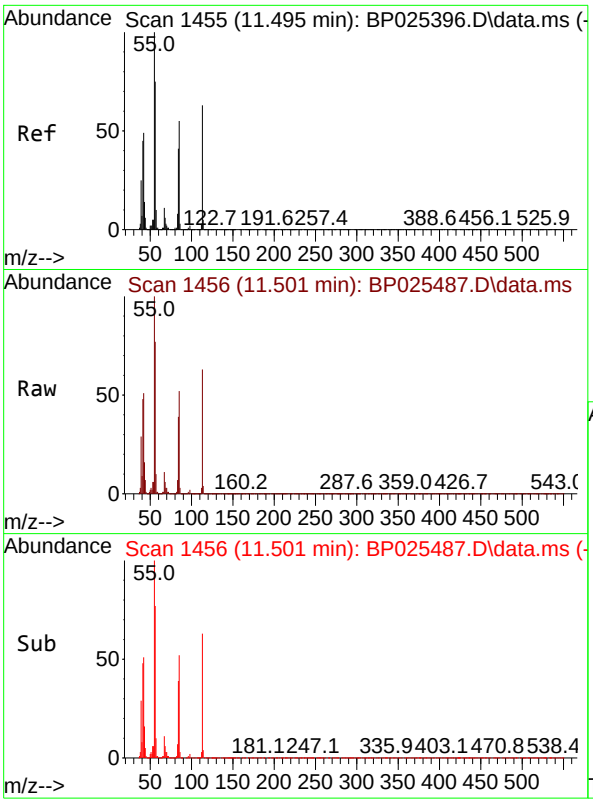


#34
Hexachlorobutadiene
Concen: 39.100 ng
RT: 10.901 min Scan# 1354
Delta R.T. -0.000 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:225 Resp: 280821

Ion	Ratio	Lower	Upper
225	100		
223	62.1	50.0	75.0
227	65.1	49.7	74.5





#35
Caprolactam
Concen: 41.192 ng
RT: 11.501 min Scan# 14
Delta R.T. 0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:113 Resp: 15890

Ion	Ratio	Lower	Upper
113	100		
55	158.4	140.0	180.0
56	122.3	100.0	140.0

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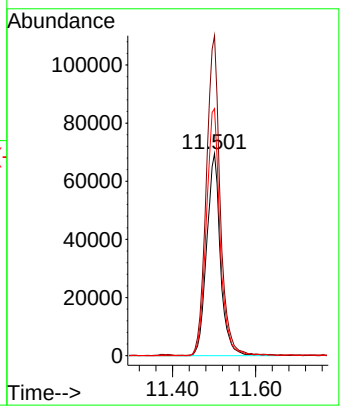
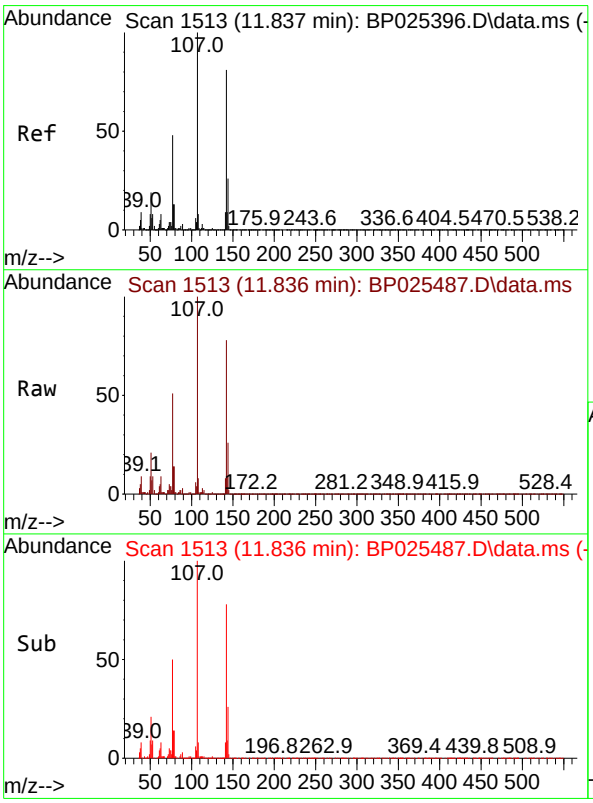
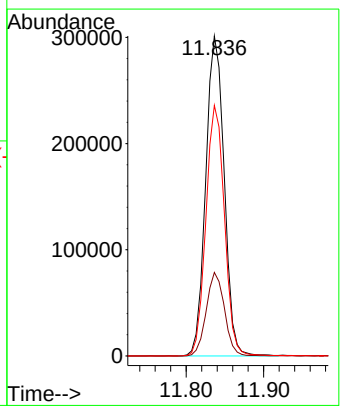


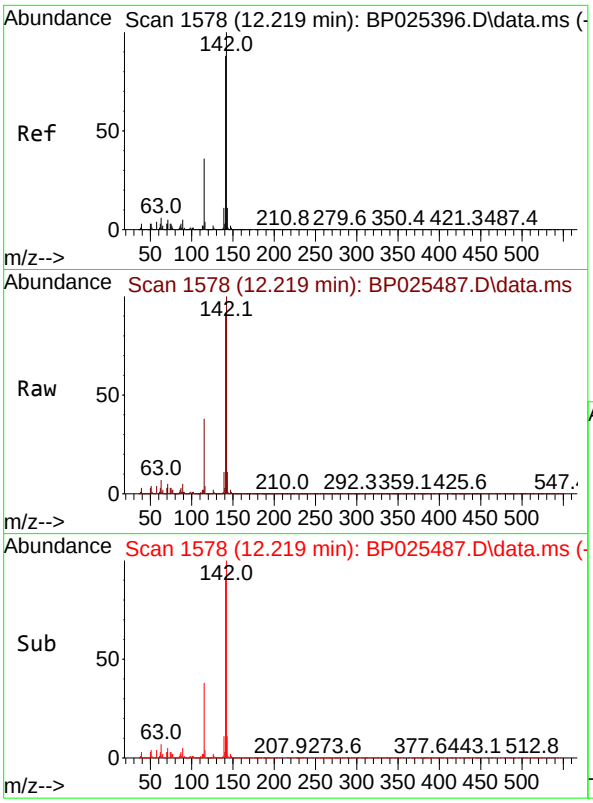


#36
4-Chloro-3-methylphenol
Concen: 41.295 ng
RT: 11.836 min Scan# 1513
Delta R.T. -0.000 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:107 Resp: 498499

Ion	Ratio	Lower	Upper
107	100		
144	26.1	21.0	31.4
142	78.3	64.6	97.0

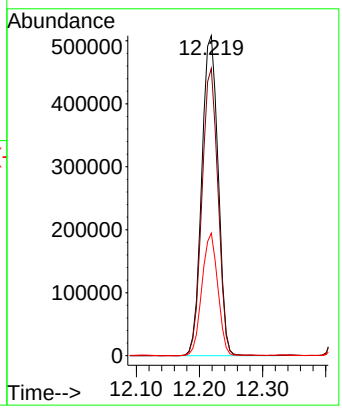




#37
2-Methylnaphthalene
Concen: 39.806 ng
RT: 12.219 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:142 Resp: 91445

Ion	Ratio	Lower	Upper
142	100		
141	89.8	70.3	105.5
115	38.3	28.9	43.3



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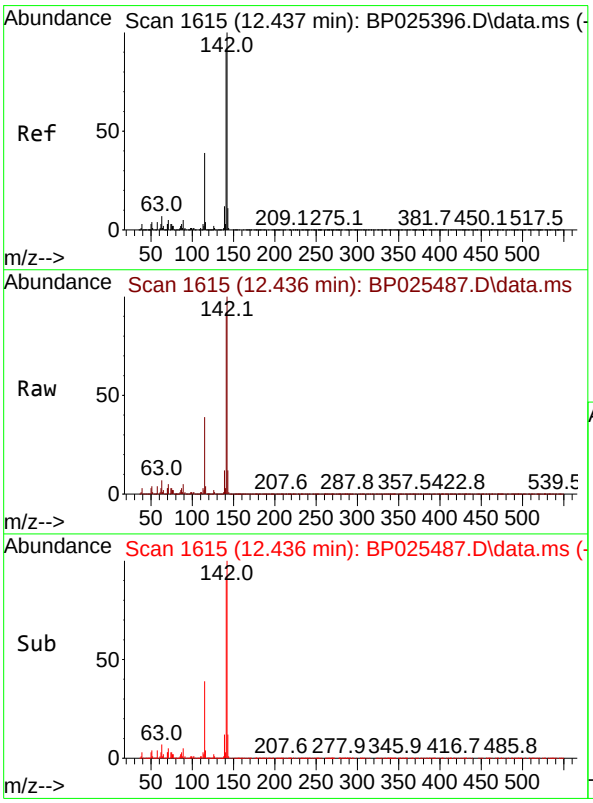
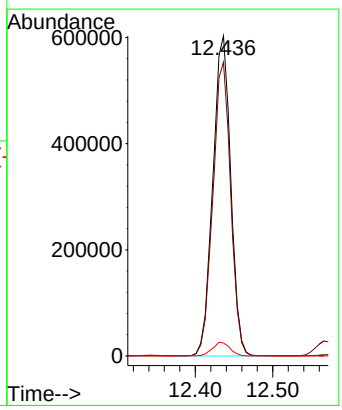
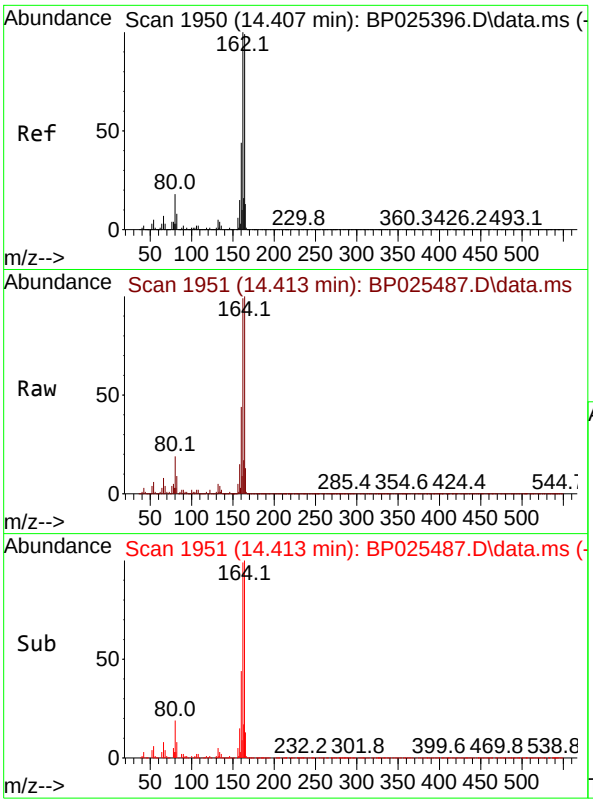


#38
1-Methylnaphthalene
Concen: 39.466 ng
RT: 12.436 min Scan# 1615
Delta R.T. -0.000 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:142 Resp: 964168

Ion	Ratio	Lower	Upper
142	100		
141	91.8	73.1	109.7
116	4.0	3.2	4.8

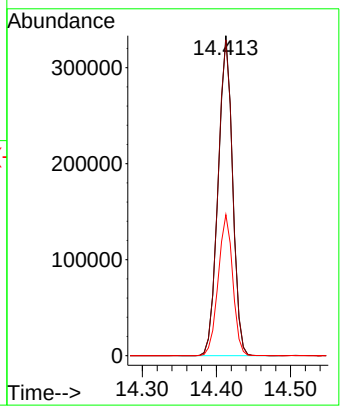




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.413 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:164 Resp: 45086

Ion	Ratio	Lower	Upper
164	100		
162	98.7	81.0	121.6
160	44.1	35.4	53.2



Instrument :
BNA_P
ClientSampleId :
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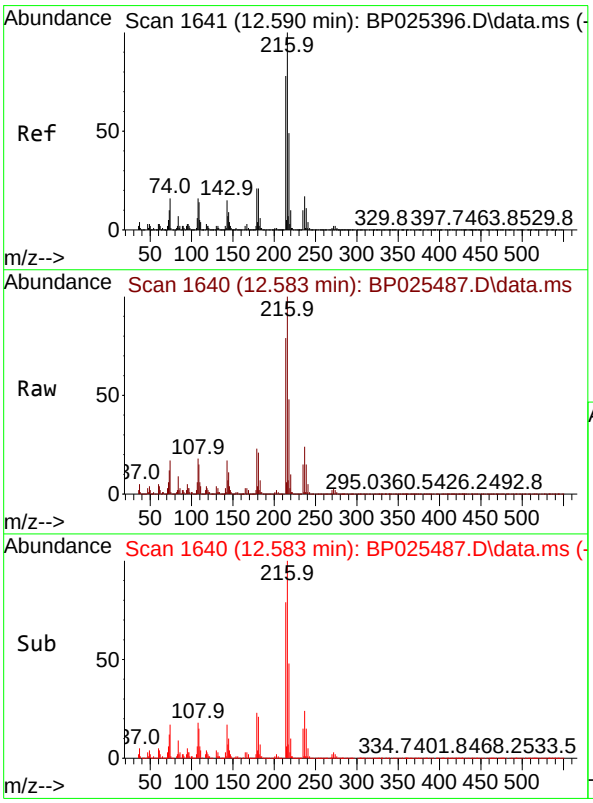
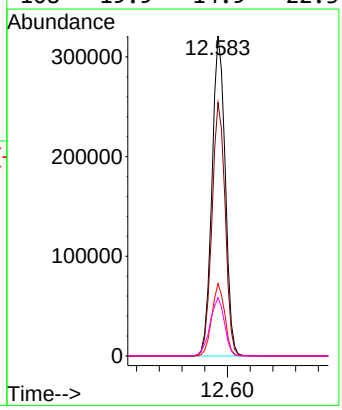
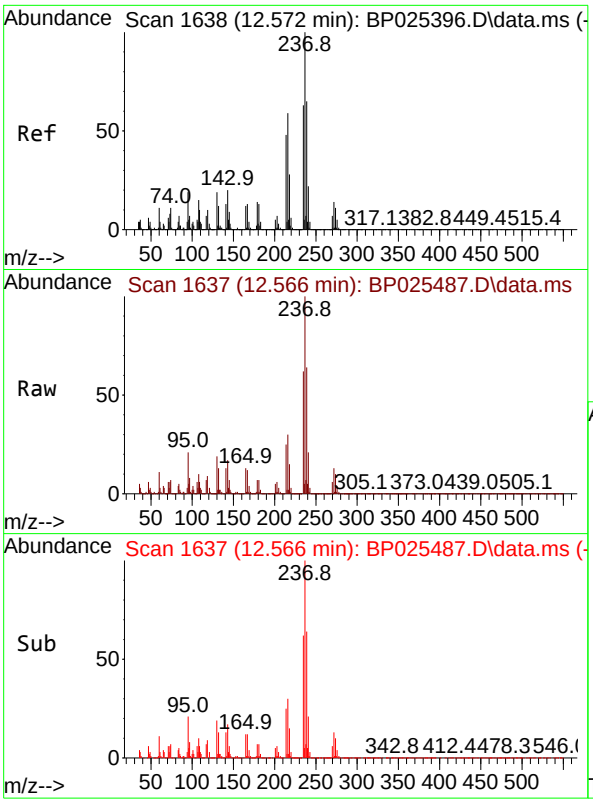


#40
1,2,4,5-Tetrachlorobenzene
Concen: 39.618 ng
RT: 12.583 min Scan# 1640
Delta R.T. -0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:216 Resp: 515884

Ion	Ratio	Lower	Upper
216	100		
214	79.1	63.0	94.4
179	22.1	17.1	25.7
108	19.9	14.9	22.3

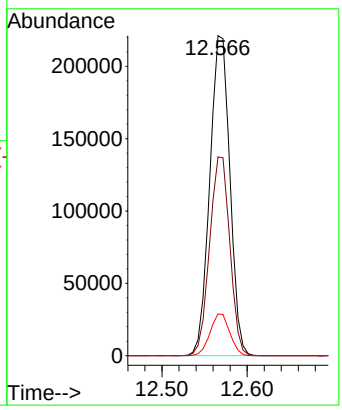




#41
Hexachlorocyclopentadiene
Concen: 46.040 ng
RT: 12.566 min Scan# 1(
Delta R.T. -0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:237 Resp: 36212

Ion	Ratio	Lower	Upper
237	100		
235	62.1	42.7	82.7
272	13.1	0.0	34.0



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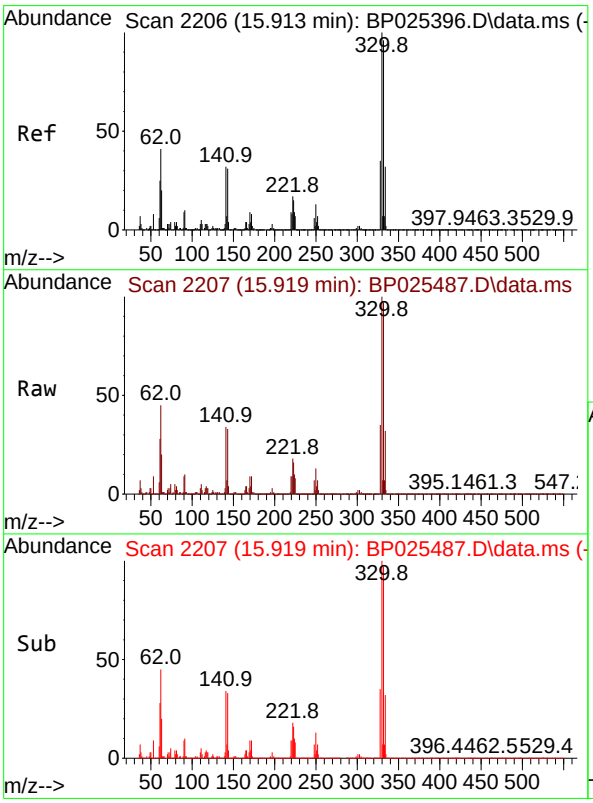
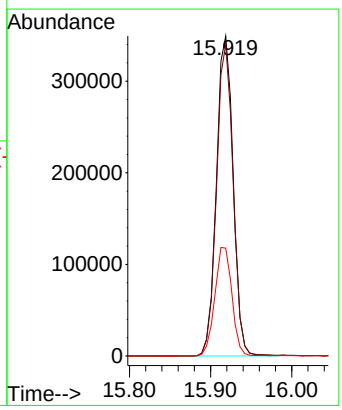
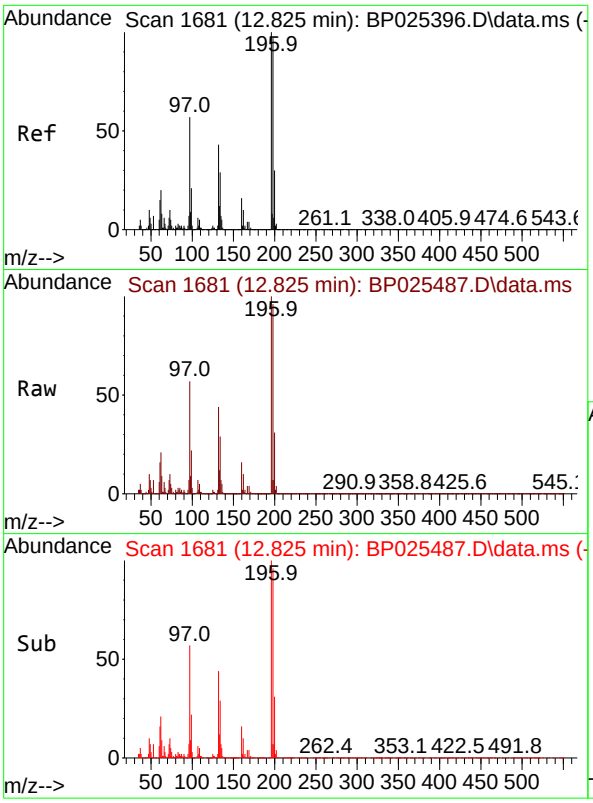


#42
2,4,6-Tribromophenol
Concen: 82.710 ng
RT: 15.919 min Scan# 2207
Delta R.T. 0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:330 Resp: 501941

Ion	Ratio	Lower	Upper
330	100		
332	96.2	77.3	115.9
141	34.8	26.6	39.8

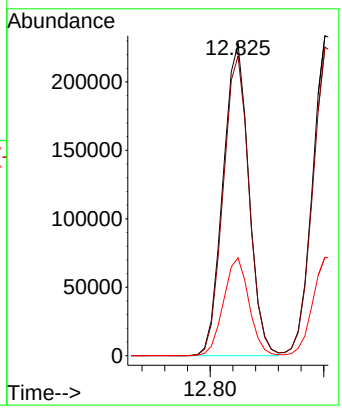




#43
2,4,6-Trichlorophenol
Concen: 40.986 ng
RT: 12.825 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:196 Resp: 36030

Ion	Ratio	Lower	Upper
196	100		
198	96.1	77.2	115.8
200	31.4	23.9	35.9



Instrument :
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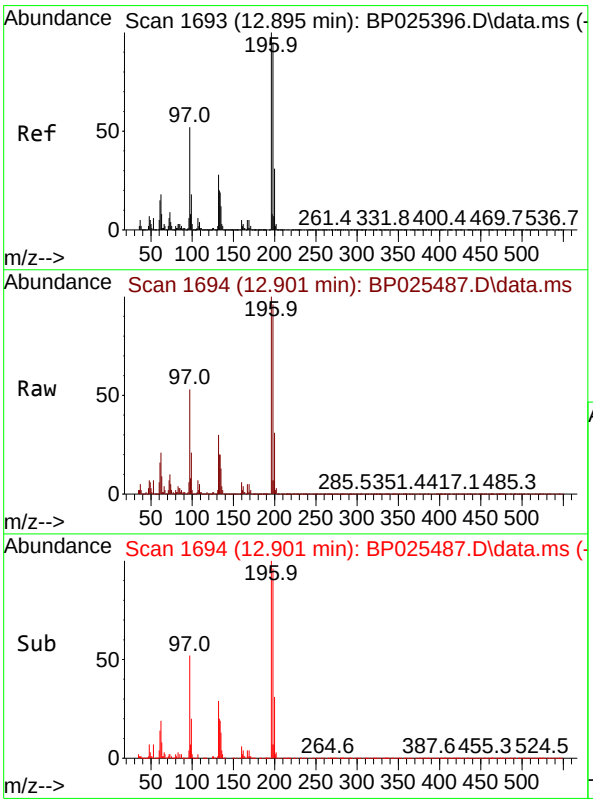
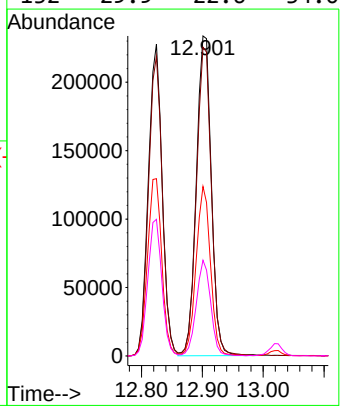
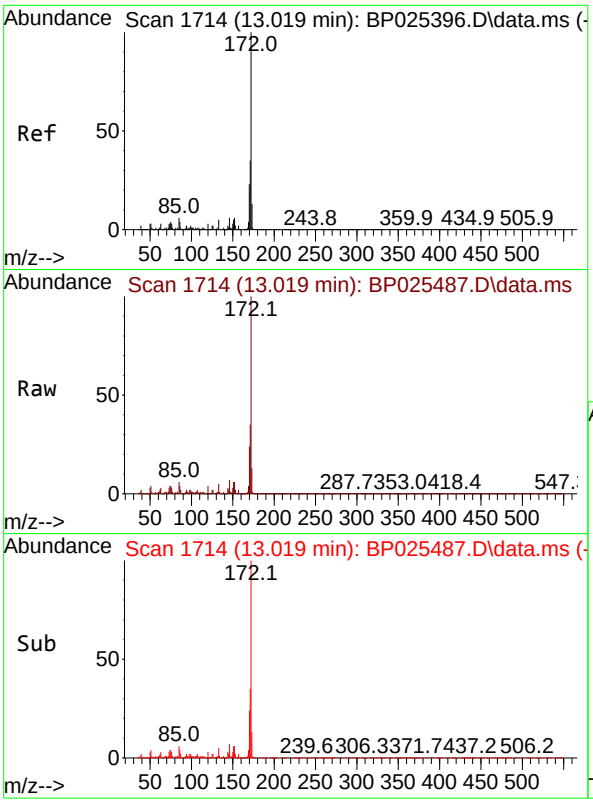


#44
2,4,5-Trichlorophenol
Concen: 41.492 ng
RT: 12.901 min Scan# 1694
Delta R.T. 0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:196 Resp: 399763

Ion	Ratio	Lower	Upper
196	100		
198	96.4	76.2	114.2
97	53.0	41.2	61.8
132	29.9	22.6	34.0

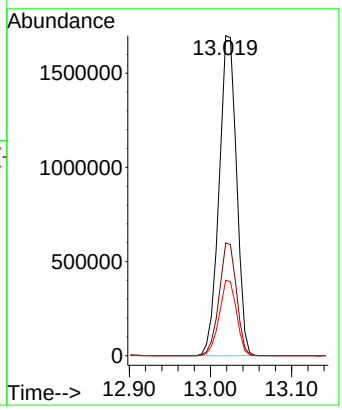




#45
2-Fluorobiphenyl
Concen: 76.967 ng
RT: 13.019 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:172 Resp: 253909

Ion	Ratio	Lower	Upper
172	100		
171	35.2	28.1	42.1
170	23.6	18.6	28.0



Instrument :
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ClientSampleId :
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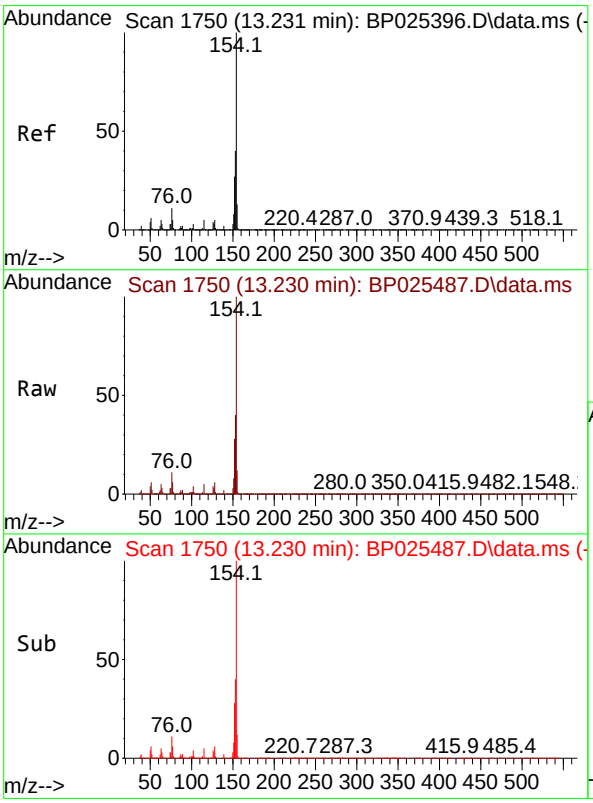
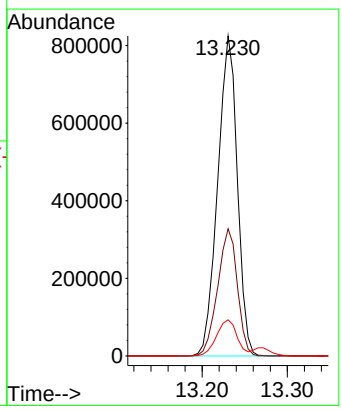
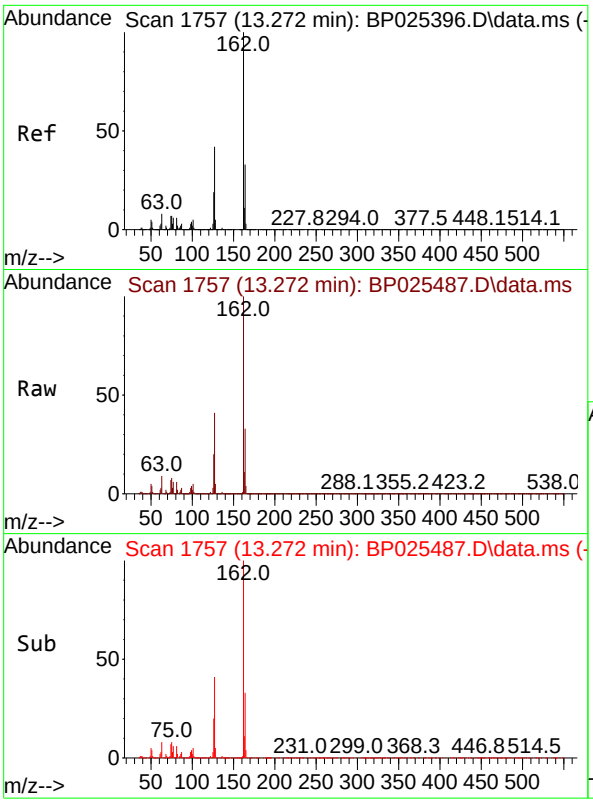


#46
1,1'-Biphenyl
Concen: 40.264 ng
RT: 13.230 min Scan# 1750
Delta R.T. -0.000 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:154 Resp: 1318412

Ion	Ratio	Lower	Upper
154	100		
153	39.8	19.5	59.5
76	11.3	0.0	31.1

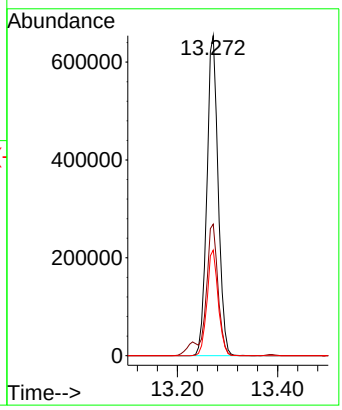




#47
2-Chloronaphthalene
Concen: 39.989 ng
RT: 13.272 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:162 Resp: 101935

Ion	Ratio	Lower	Upper
162	100		
127	41.1	33.4	50.2
164	33.0	26.2	39.2



Instrument :
BNA_P
ClientSampleId :
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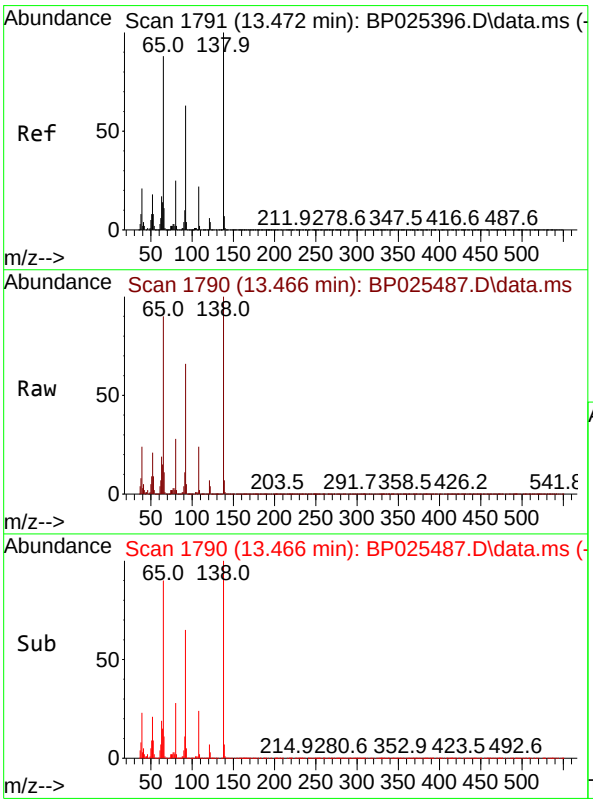
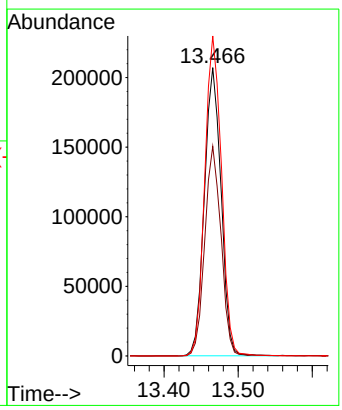
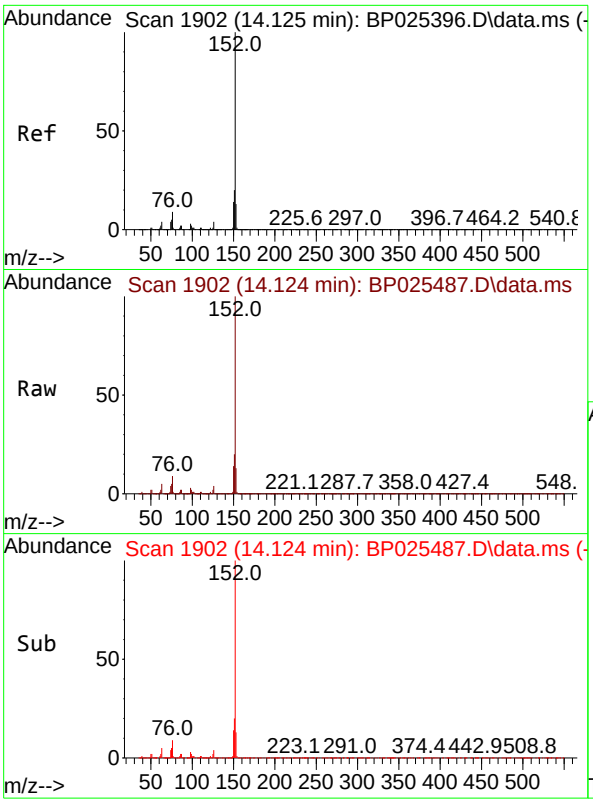


#48
2-Nitroaniline
Concen: 43.643 ng
RT: 13.466 min Scan# 1790
Delta R.T. -0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion: 65 Resp: 324159

Ion	Ratio	Lower	Upper
65	100		
92	72.7	57.6	86.4
138	111.0	91.0	136.6

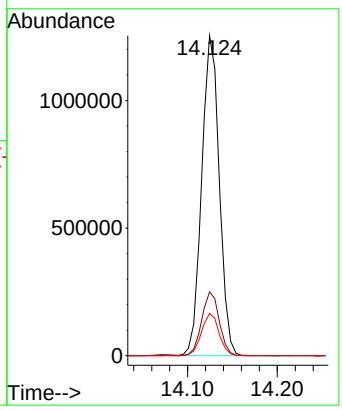




#49
Acenaphthylene
Concen: 40.393 ng
RT: 14.124 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:152 Resp: 170378

Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.0	24.0
153	13.2	10.6	15.8



Instrument :
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ClientSampleId :
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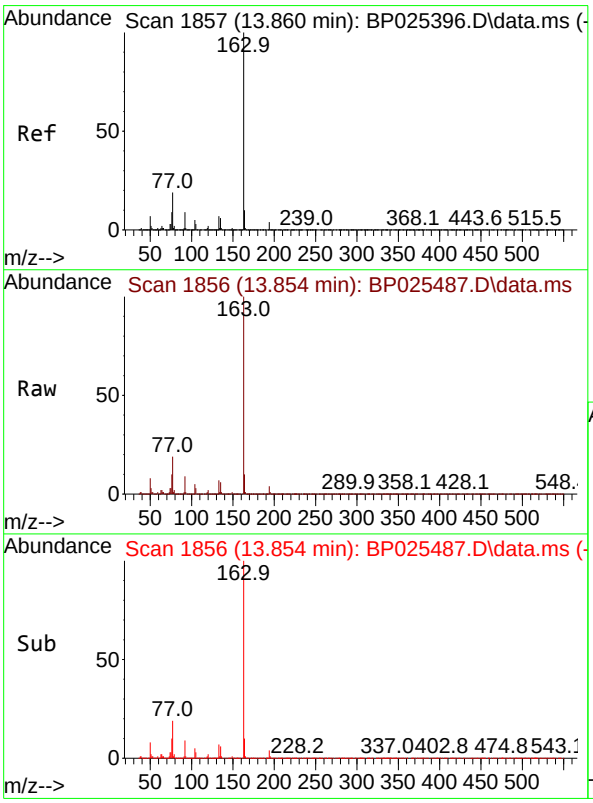
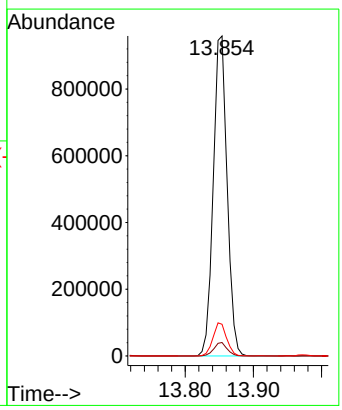
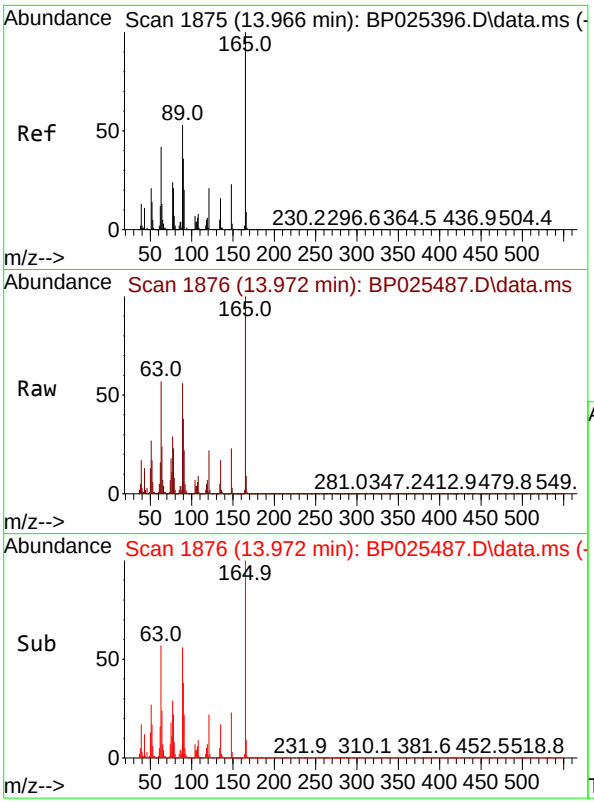


#50
Dimethylphthalate
Concen: 41.055 ng
RT: 13.854 min Scan# 1856
Delta R.T. -0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:163 Resp: 1355491

Ion	Ratio	Lower	Upper
163	100		
194	4.2	3.4	5.0
164	9.9	7.9	11.9





#51
2,6-Dinitrotoluene
Concen: 42.345 ng
RT: 13.972 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:165 Resp: 29467

Ion	Ratio	Lower	Upper
165	100		
63	57.3	40.9	61.3
89	56.4	42.1	63.1

Instrument :
BNA_P
ClientSampleId :
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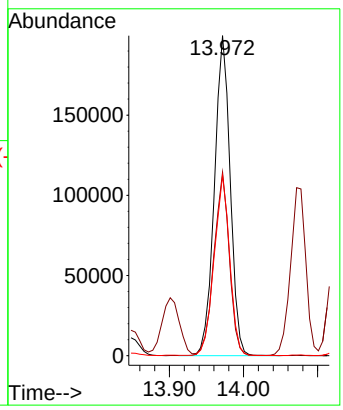
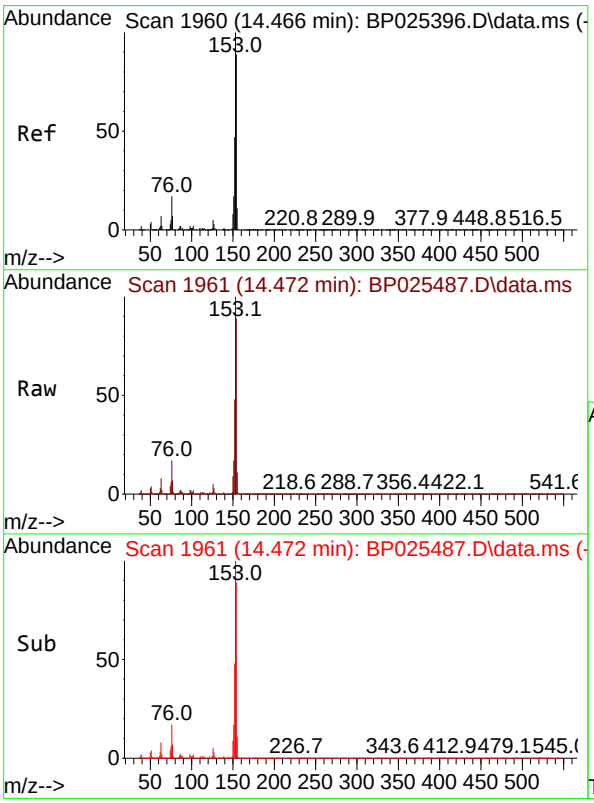
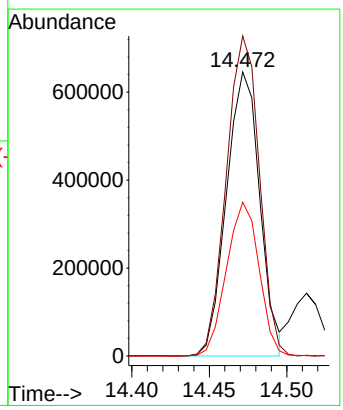


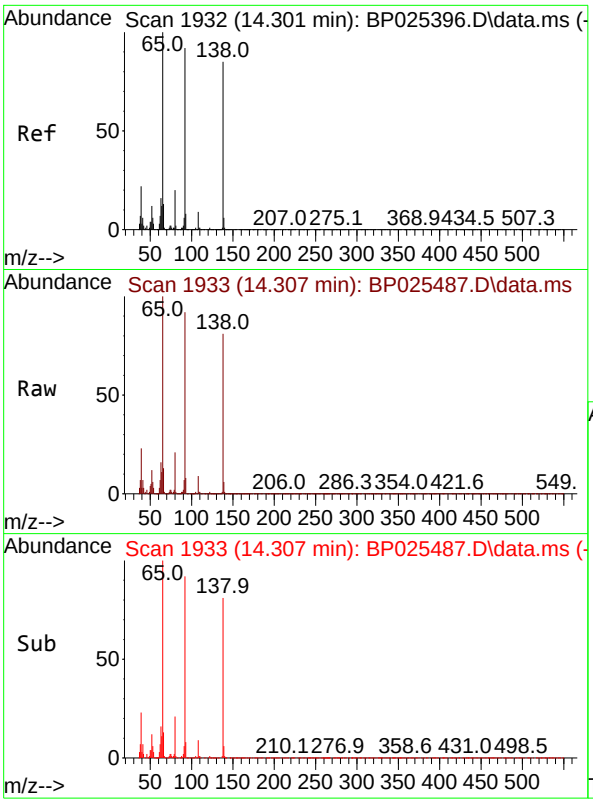


#52
Acenaphthene
Concen: 39.004 ng
RT: 14.472 min Scan# 1961
Delta R.T. 0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:154 Resp: 965696

Ion	Ratio	Lower	Upper
154	100		
153	112.7	90.2	135.2
152	54.1	42.1	63.1

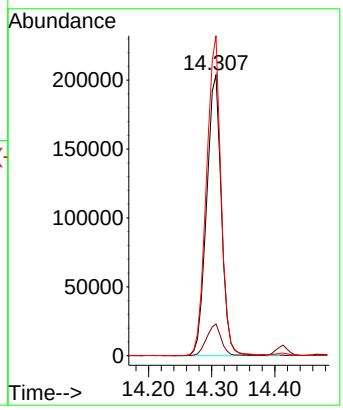




#53
3-Nitroaniline
Concen: 42.258 ng
RT: 14.307 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:138 Resp: 33085

Ion	Ratio	Lower	Upper
138	100		
108	11.3	8.3	12.5
92	114.1	86.2	129.2



Instrument :
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ClientSampleId :
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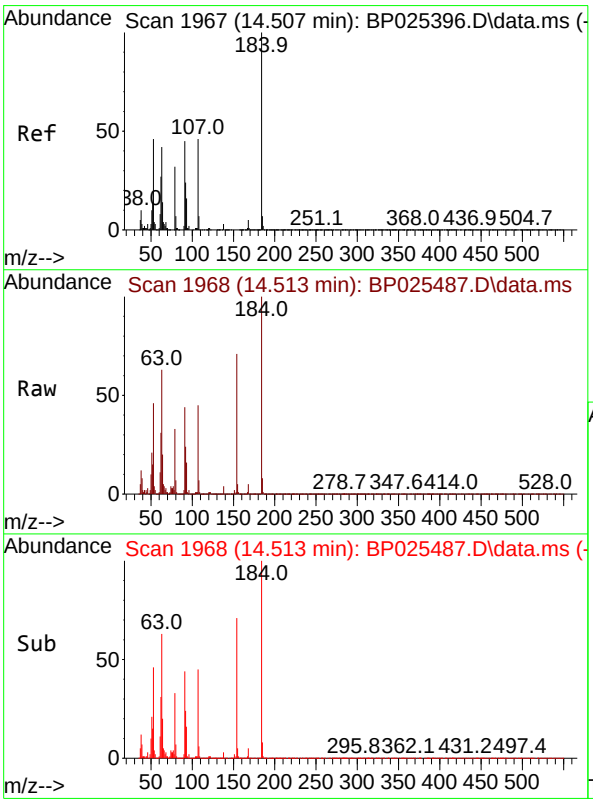
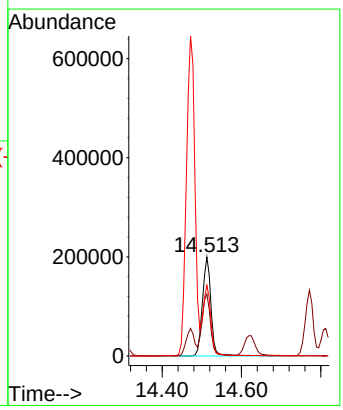
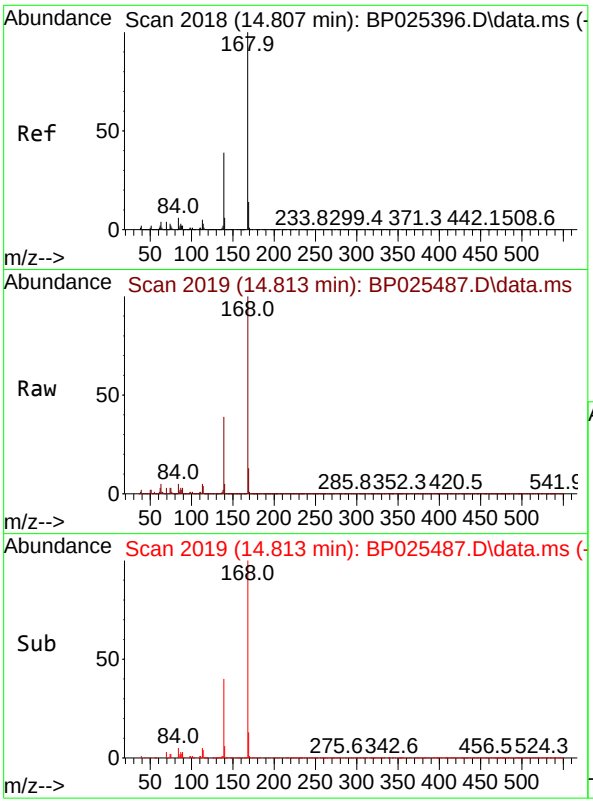


#54
2,4-Dinitrophenol
Concen: 80.460 ng
RT: 14.513 min Scan# 1968
Delta R.T. 0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:184 Resp: 299007

Ion	Ratio	Lower	Upper
184	100		
63	62.7	49.4	74.2
154	71.4	54.6	82.0

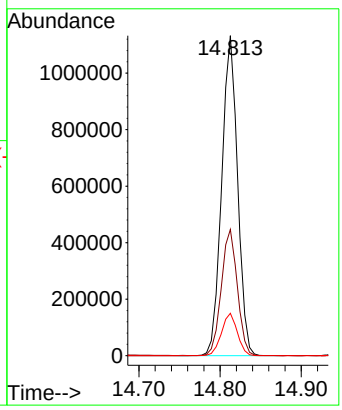




#55
Dibenzofuran
Concen: 39.380 ng
RT: 14.813 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:168 Resp: 154151

Ion	Ratio	Lower	Upper
168	100		
139	39.4	31.5	47.3
169	13.2	10.9	16.3



Instrument :
BNA_P
ClientSampleId :
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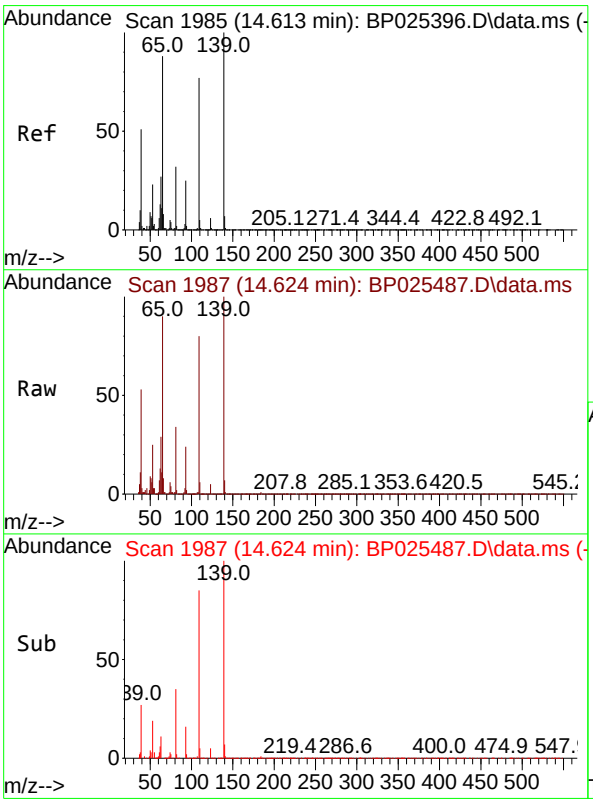
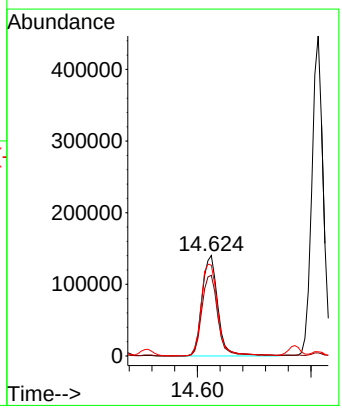
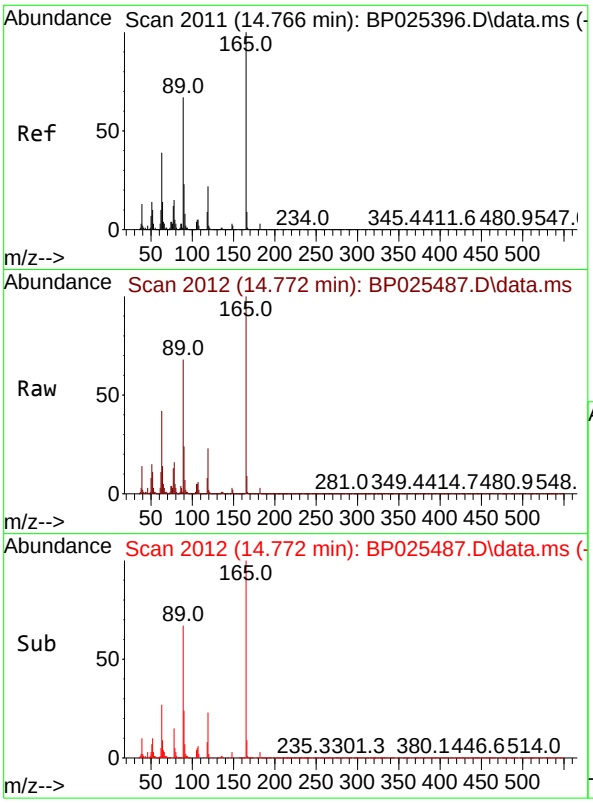


#56
4-Nitrophenol
Concen: 42.159 ng
RT: 14.624 min Scan# 1987
Delta R.T. 0.012 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:139 Resp: 271237

Ion	Ratio	Lower	Upper
139	100		
109	80.3	56.6	96.6
65	90.3	68.2	108.2

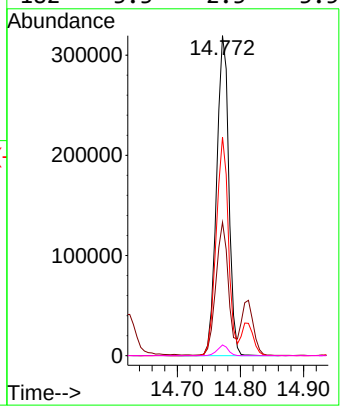




#57
2,4-Dinitrotoluene
Concen: 43.171 ng
RT: 14.772 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:165 Resp: 42862

Ion	Ratio	Lower	Upper
165	100		
63	41.7	31.4	47.2
89	68.3	53.3	79.9
182	3.3	2.3	3.5



Instrument :
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ClientSampleId :
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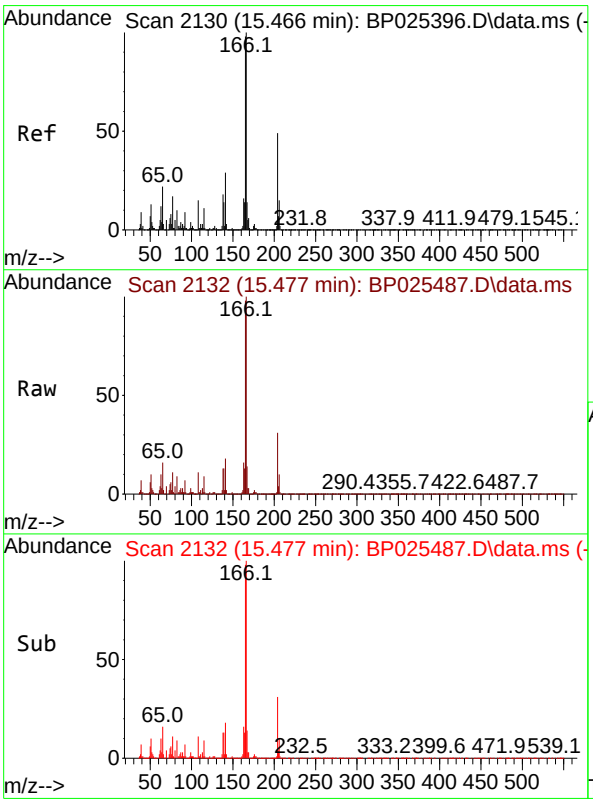
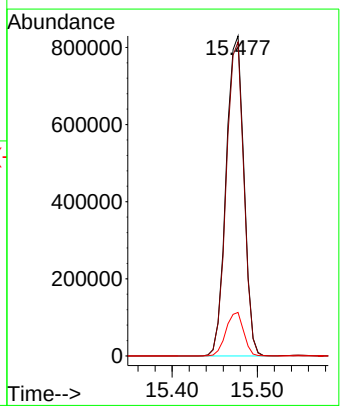
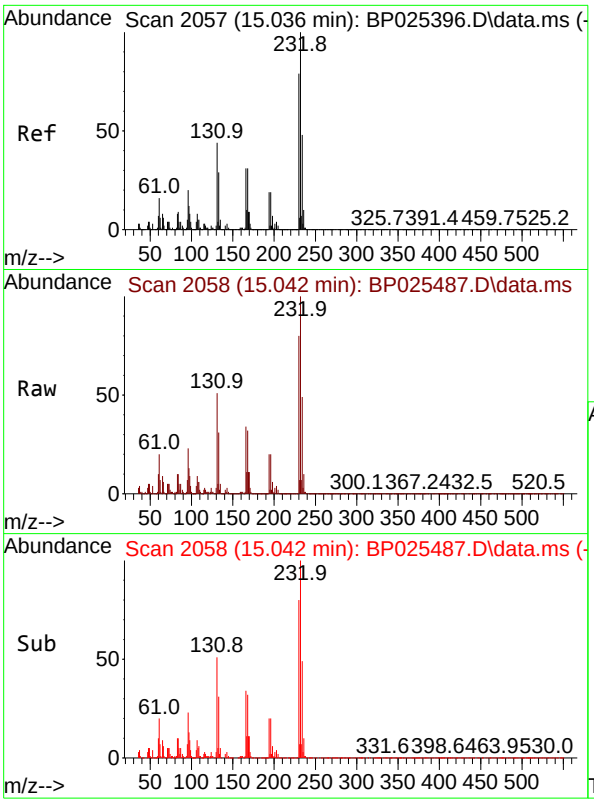


#58
Fluorene
Concen: 38.896 ng
RT: 15.477 min Scan# 2132
Delta R.T. 0.011 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:166 Resp: 1201420

Ion	Ratio	Lower	Upper
166	100		
165	98.1	78.8	118.2
167	13.6	11.0	16.4

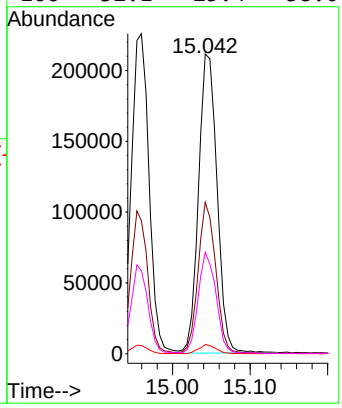




#59
2,3,4,6-Tetrachlorophenol
Concen: 41.154 ng
RT: 15.042 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:232 Resp: 35010

Ion	Ratio	Lower	Upper
232	100		
131	48.6	37.0	55.6
130	2.8	1.9	2.9
166	32.1	25.4	38.0



Instrument :
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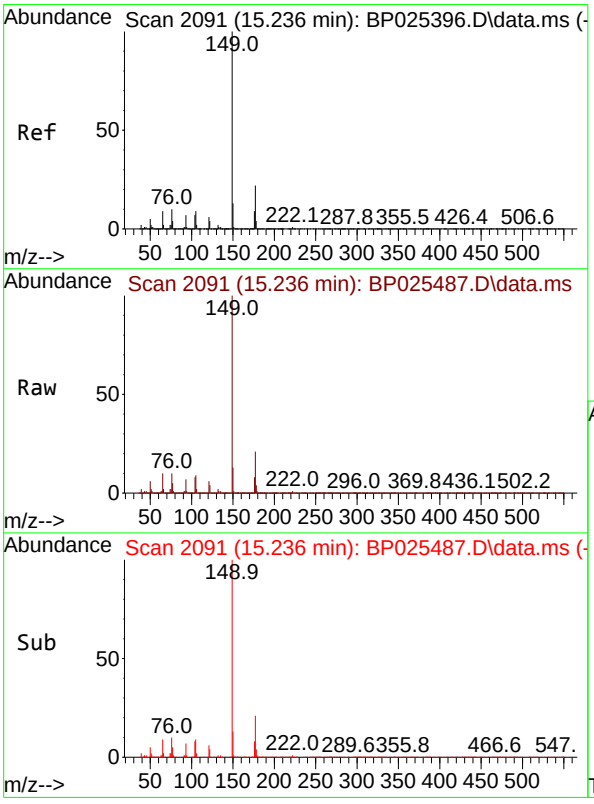
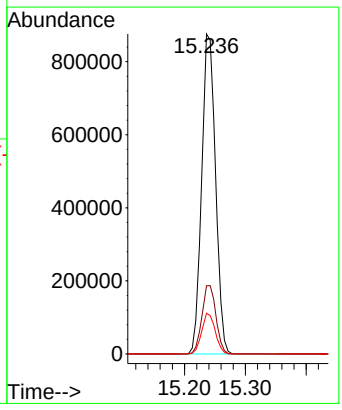
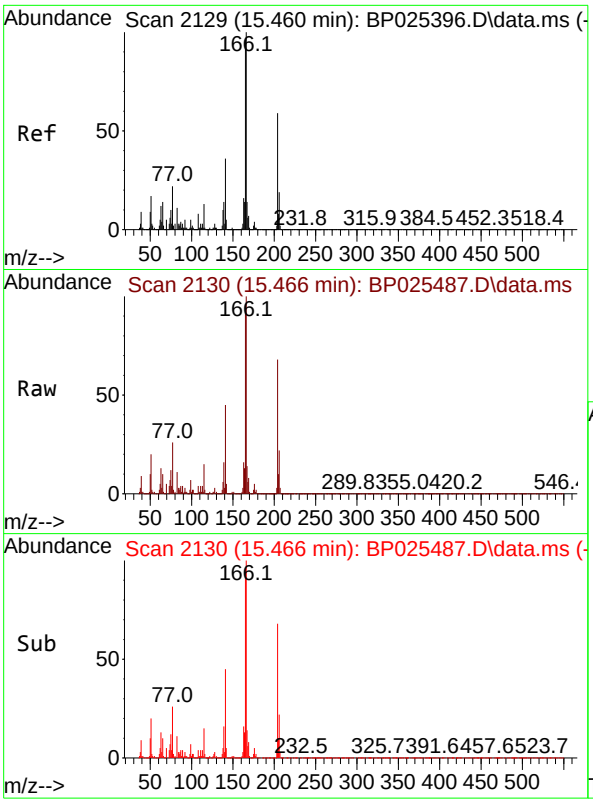


#60
Diethylphthalate
Concen: 41.316 ng
RT: 15.236 min Scan# 2091
Delta R.T. -0.000 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:149 Resp: 1386072

Ion	Ratio	Lower	Upper
149	100		
177	21.3	17.3	25.9
150	12.7	10.3	15.5





#61
4-Chlorophenyl-phenylether
Concen: 38.989 ng
RT: 15.466 min Scan# 21
Delta R.T. 0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Instrument :
BNA_P
ClientSampleId :
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Tgt Ion:204 Resp: 59893

Ion	Ratio	Lower	Upper
204	100		
206	33.0	25.8	38.8
141	65.5	49.4	74.2

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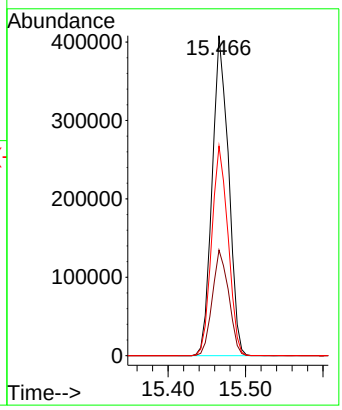
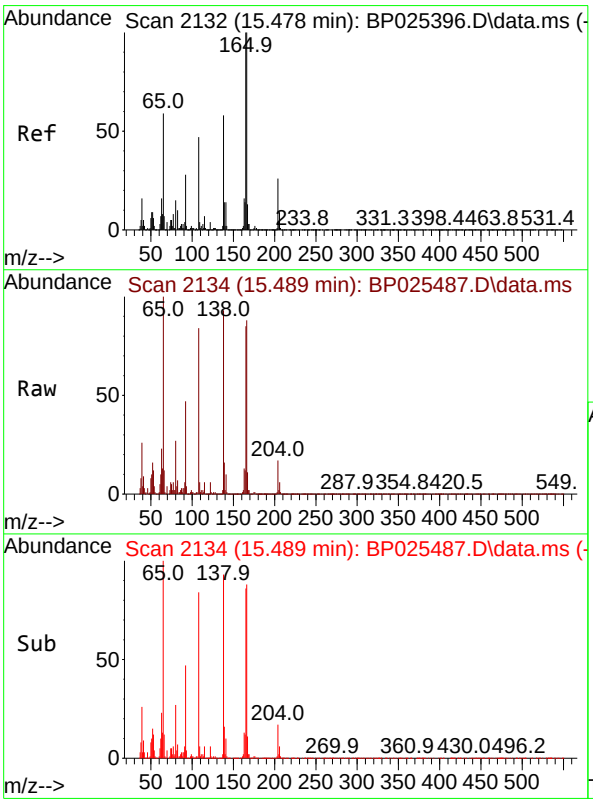
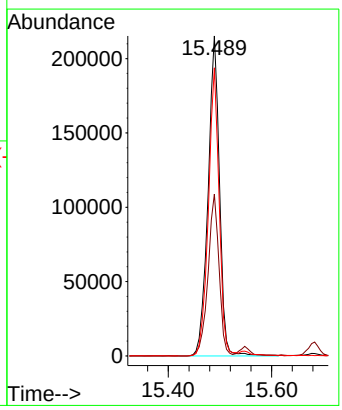


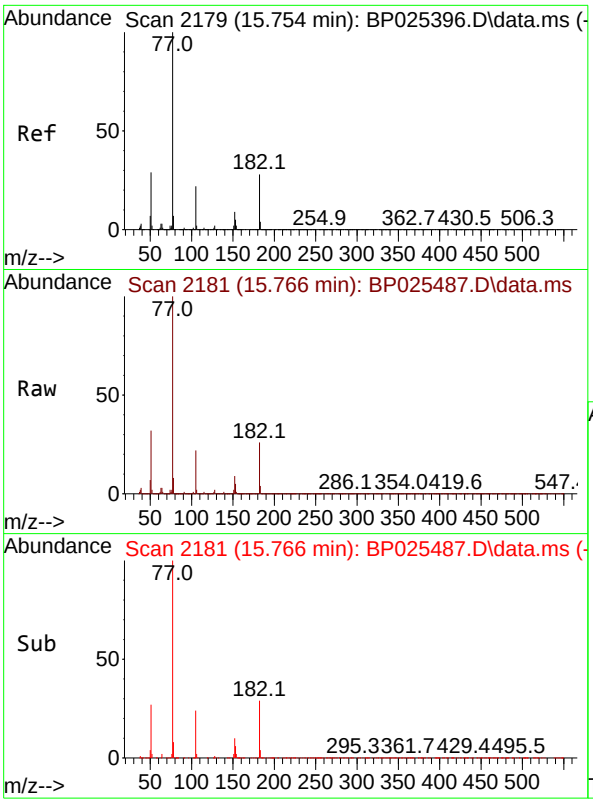


#62
4-Nitroaniline
Concen: 41.329 ng
RT: 15.489 min Scan# 2134
Delta R.T. 0.011 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:138 Resp: 331726

Ion	Ratio	Lower	Upper
138	100		
92	50.6	29.1	69.1
108	90.0	61.5	101.5

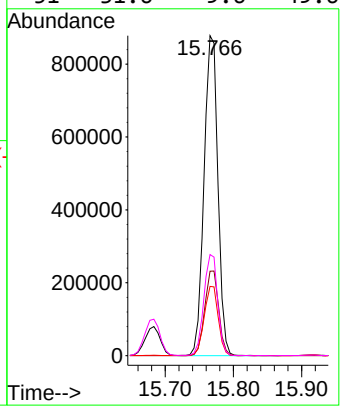




#63
Azobenzene
Concen: 43.196 ng
RT: 15.766 min Scan# 21
Delta R.T. 0.012 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion: 77 Resp: 124084

Ion	Ratio	Lower	Upper
77	100		
182	26.4	7.5	47.5
105	21.6	2.1	42.1
51	31.6	9.6	49.6



Instrument :
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ClientSampleId :
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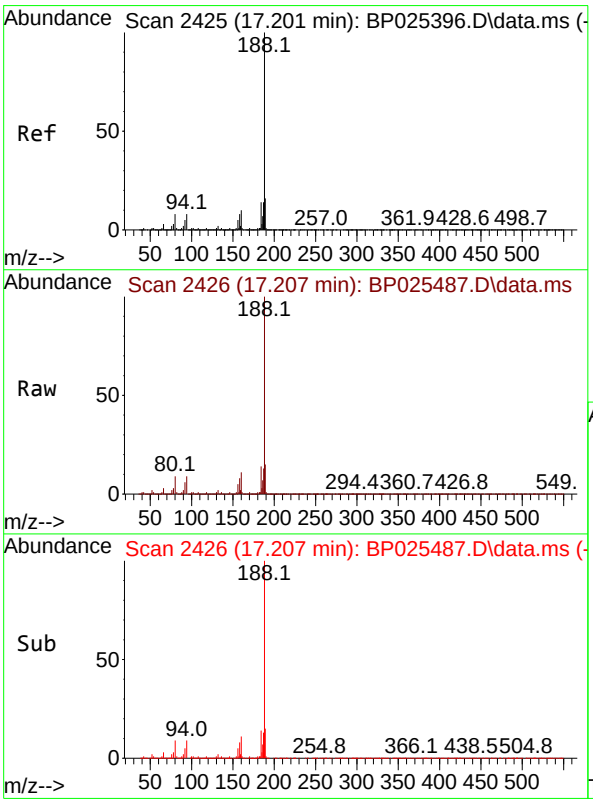
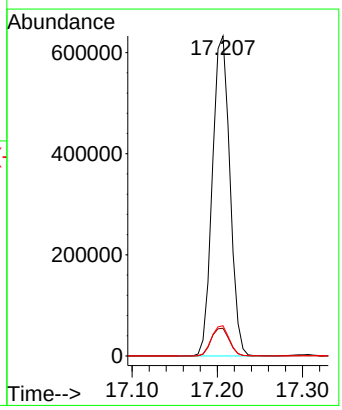
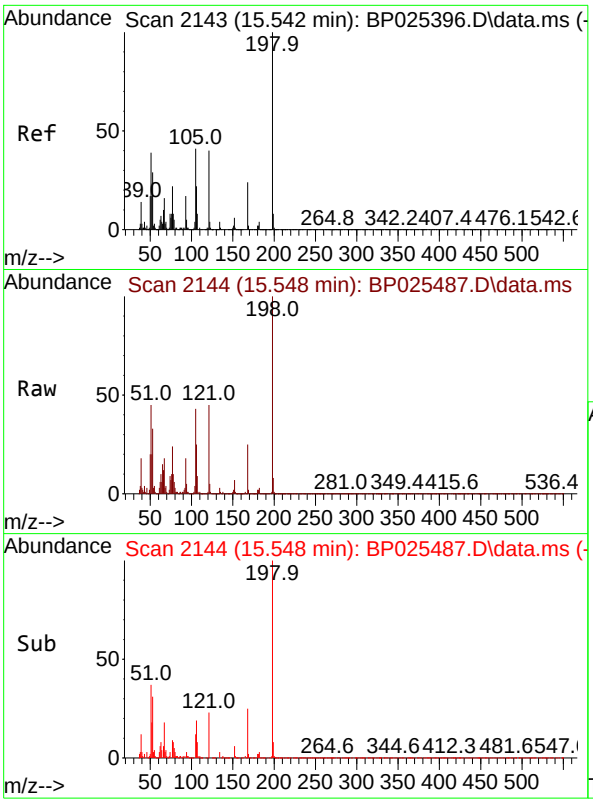


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.207 min Scan# 2426
Delta R.T. 0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:188 Resp: 905283

Ion	Ratio	Lower	Upper
188	100		
94	8.7	6.6	10.0
80	9.5	6.7	10.1





#65
4,6-Dinitro-2-methylphenol
Concen: 57.103 ng
RT: 15.548 min Scan# 21
Delta R.T. 0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:198 Resp: 32224

Ion	Ratio	Lower	Upper
198	100		
51	45.1	19.6	59.6
105	42.9	20.9	60.9

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

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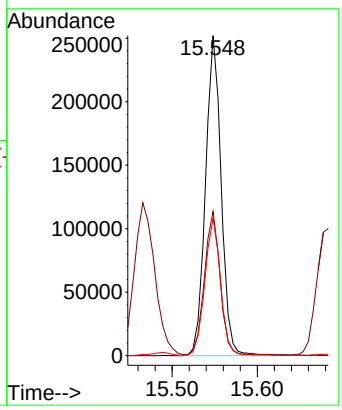
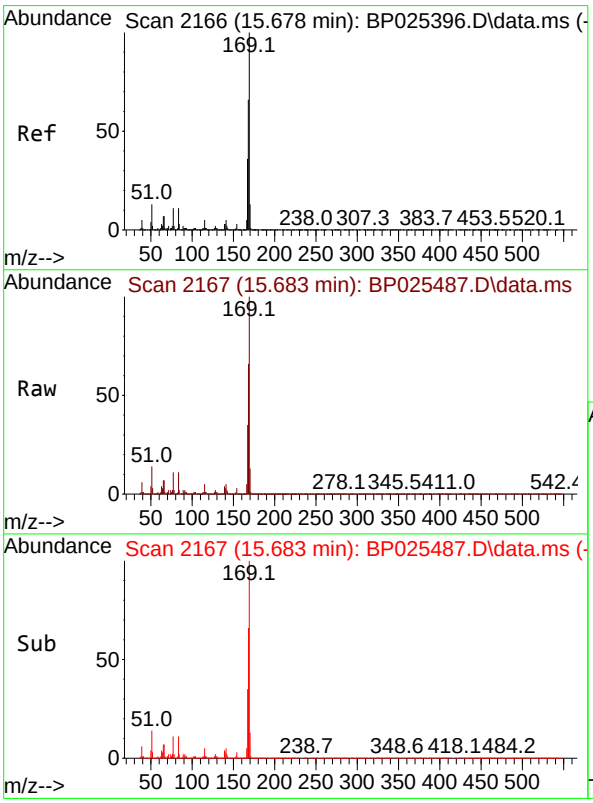
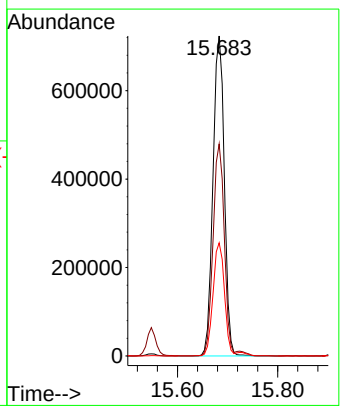


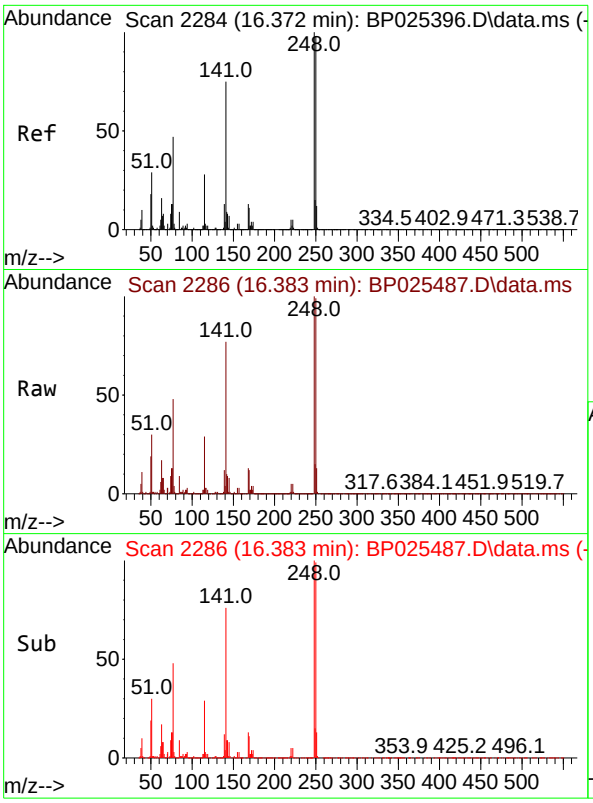


#66
n-Nitrosodiphenylamine
Concen: 41.022 ng
RT: 15.683 min Scan# 2167
Delta R.T. 0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:169 Resp: 1132449

Ion	Ratio	Lower	Upper
169	100		
168	66.3	53.2	79.8
167	35.3	28.7	43.1





#67
4-Bromophenyl-phenylether
Concen: 40.448 ng
RT: 16.383 min Scan# 2
Delta R.T. 0.012 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:248 Resp: 40271

Ion	Ratio	Lower	Upper
248	100		
250	99.0	78.2	117.2
141	76.6	59.6	89.4

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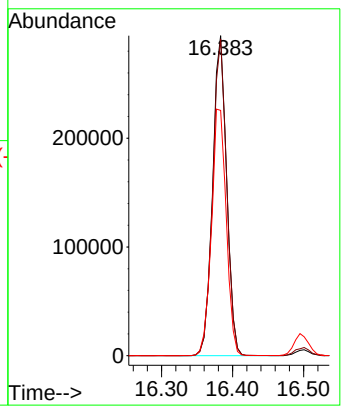
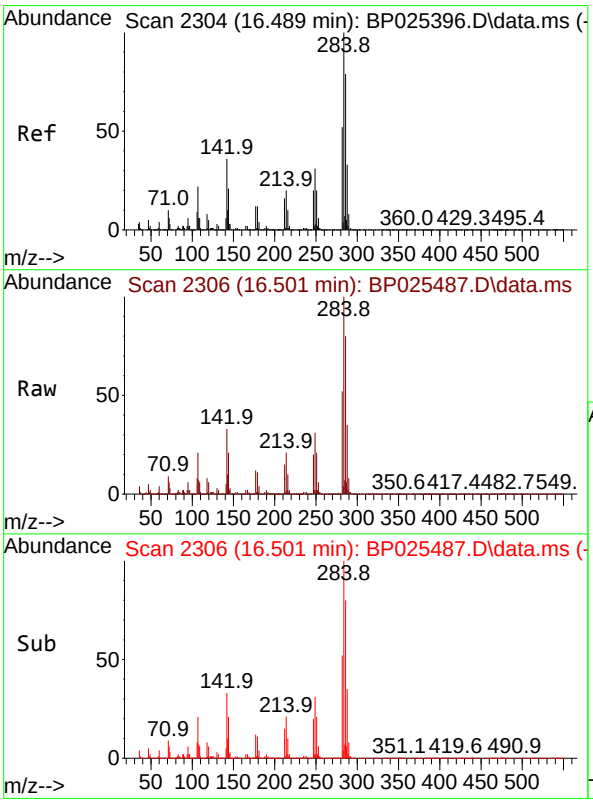
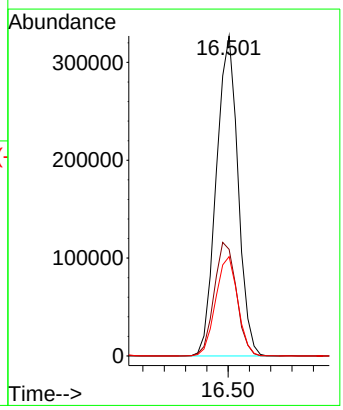


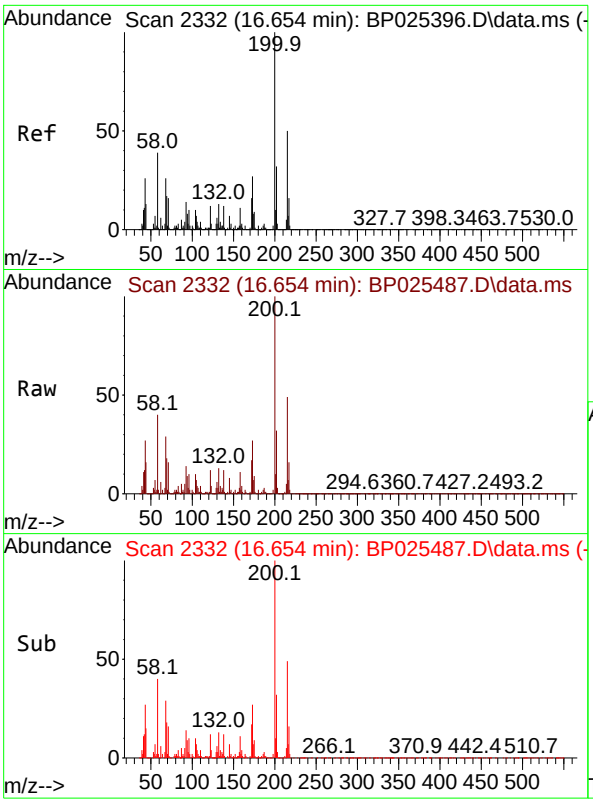


#68
Hexachlorobenzene
Concen: 39.997 ng
RT: 16.501 min Scan# 2306
Delta R.T. 0.012 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:284 Resp: 461625

Ion	Ratio	Lower	Upper
284	100		
142	33.3	29.1	43.7
249	31.1	25.0	37.4

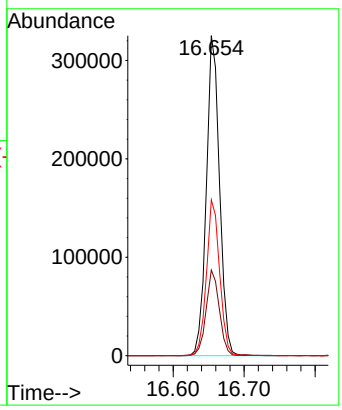




#69
Atrazine
Concen: 40.669 ng
RT: 16.654 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:200 Resp: 42045

Ion	Ratio	Lower	Upper
200	100		
173	26.7	6.7	46.7
215	48.7	29.7	69.7



Instrument :
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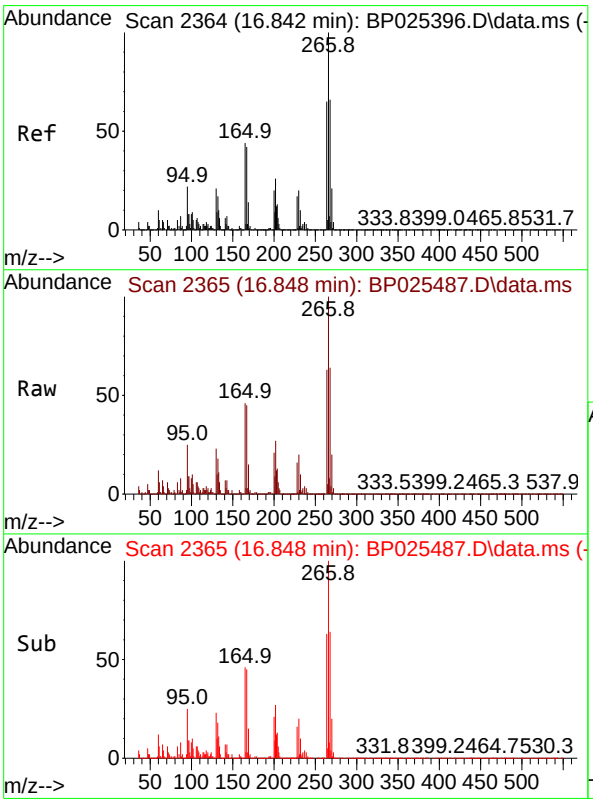
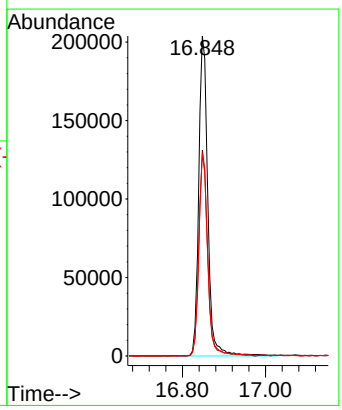
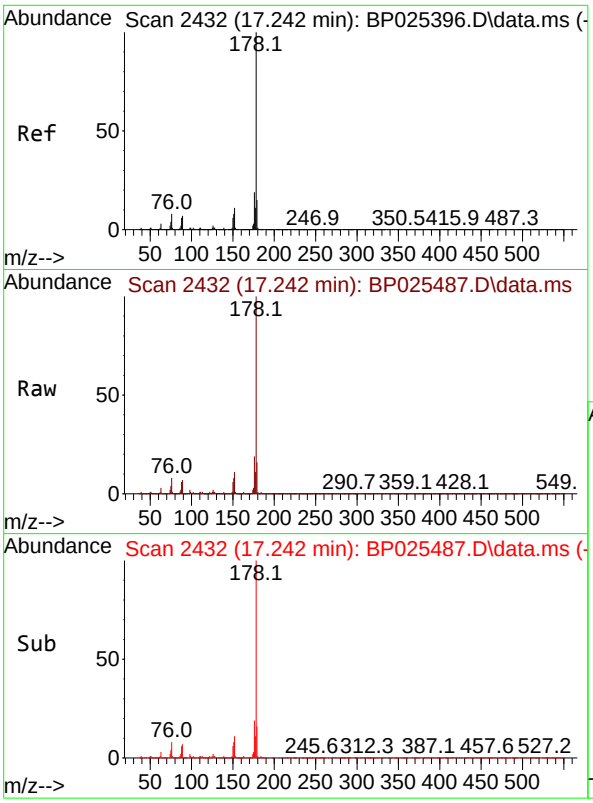


#70
Pentachlorophenol
Concen: 42.259 ng
RT: 16.848 min Scan# 2365
Delta R.T. 0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:266 Resp: 307884

Ion	Ratio	Lower	Upper
266	100		
268	64.2	52.6	79.0
264	63.3	52.0	78.0

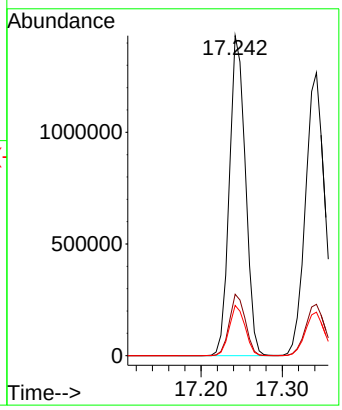




#71
Phenanthrene
Concen: 39.449 ng
RT: 17.242 min Scan# 24
Delta R.T. -0.000 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:178 Resp: 196181

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.5	23.3
179	15.7	12.2	18.4



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

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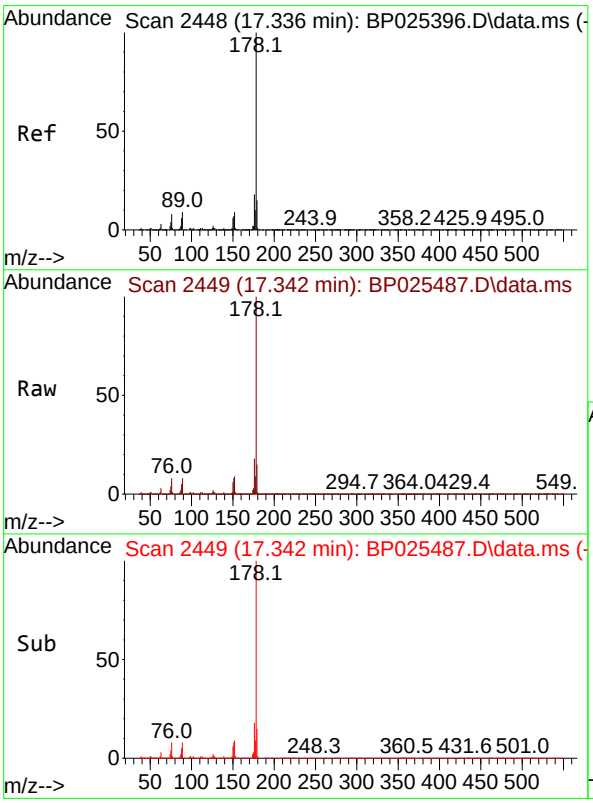
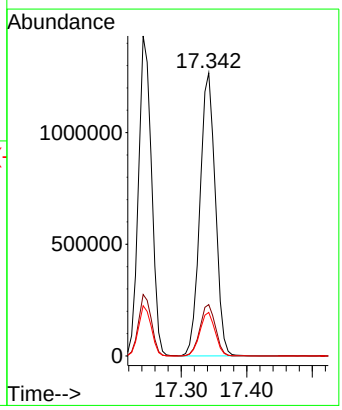
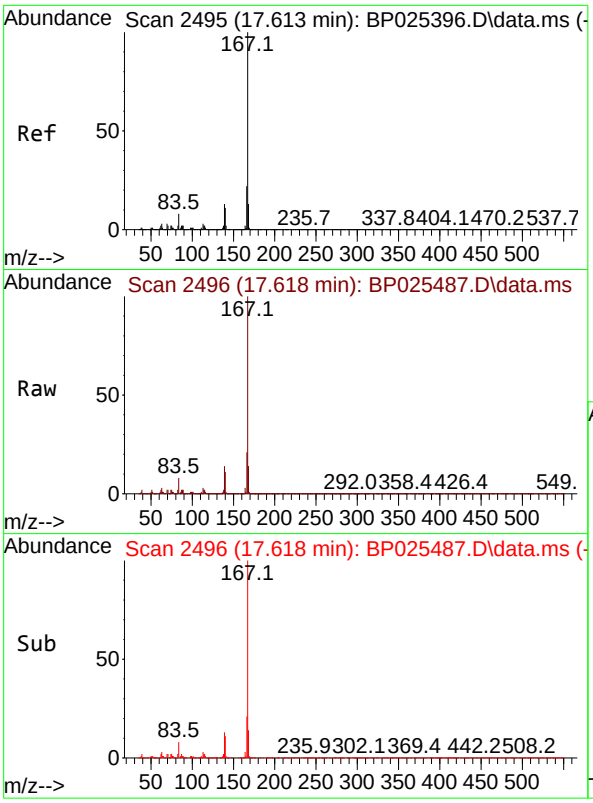


#72
Anthracene
Concen: 40.780 ng
RT: 17.342 min Scan# 2449
Delta R.T. 0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:178 Resp: 2071008

Ion	Ratio	Lower	Upper
178	100		
176	18.1	14.7	22.1
179	15.4	12.2	18.2





#73
Carbazole
Concen: 39.801 ng
RT: 17.618 min Scan# 24
Delta R.T. 0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:167 Resp: 190388

Ion	Ratio	Lower	Upper
167	100		
166	21.4	17.5	26.3
139	13.6	10.6	16.0

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

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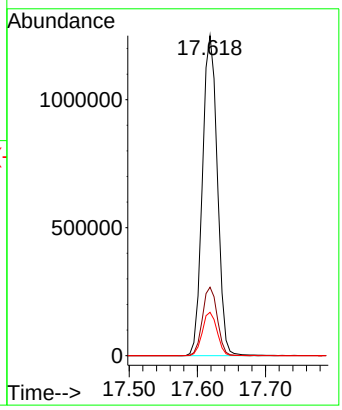
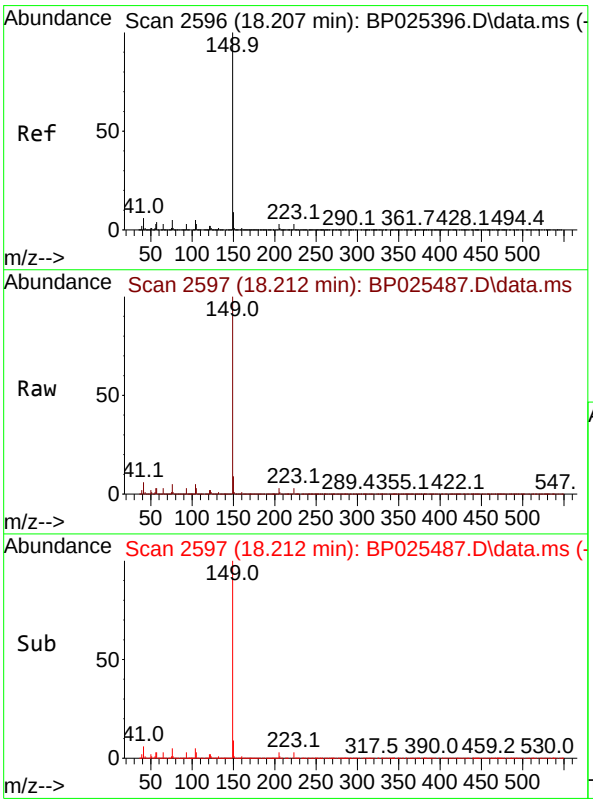
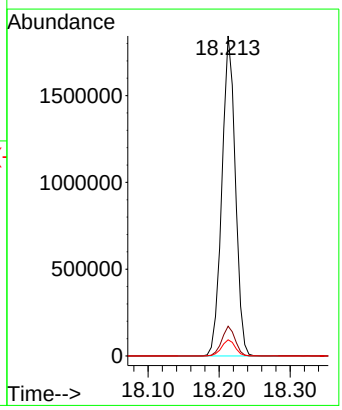


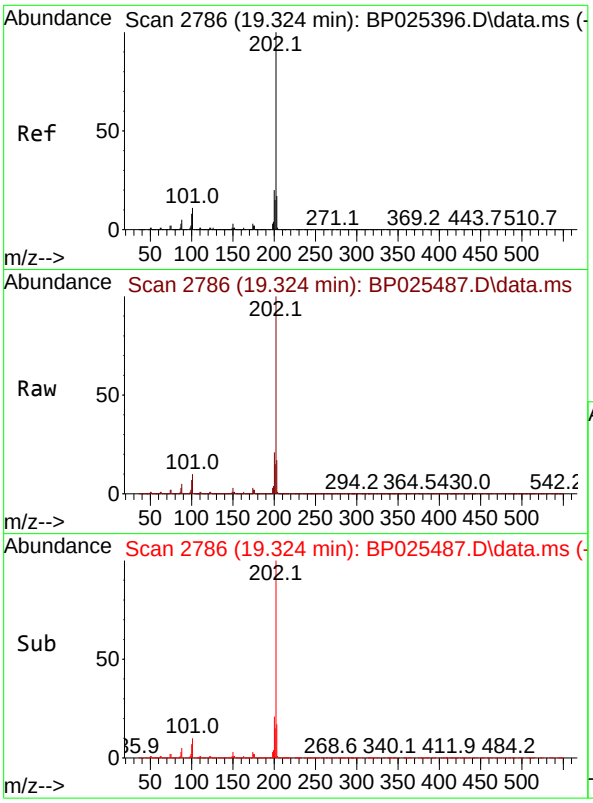


#74
Di-n-butylphthalate
Concen: 41.022 ng
RT: 18.212 min Scan# 2597
Delta R.T. 0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:149 Resp: 2414257

Ion	Ratio	Lower	Upper
149	100		
150	9.3	7.4	11.0
104	5.0	4.2	6.2





#75
Fluoranthene
Concen: 39.147 ng
RT: 19.324 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:202 Resp: 232216

Ion	Ratio	Lower	Upper
202	100		
101	9.6	0.0	31.1
203	17.3	0.0	37.3

Instrument :
BNA_P
ClientSampleId :
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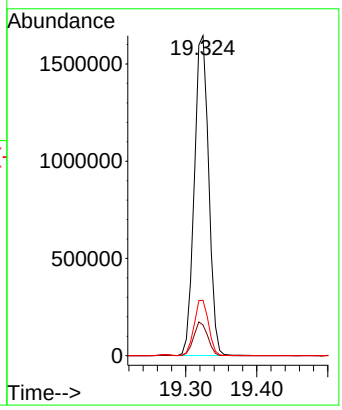
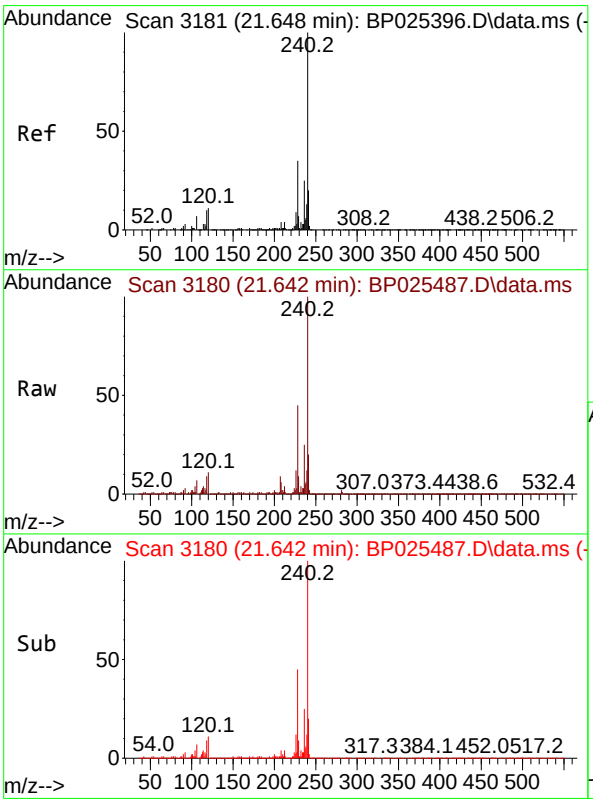
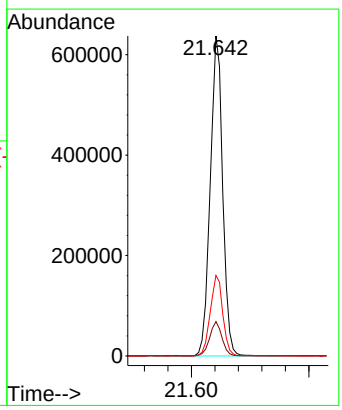


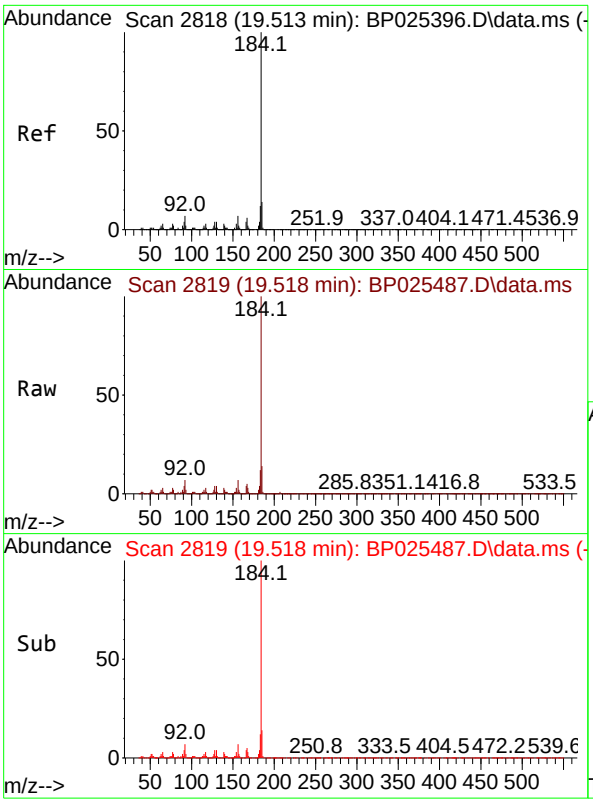


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.642 min Scan# 3180
Delta R.T. -0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:240 Resp: 932001

Ion	Ratio	Lower	Upper
240	100		
120	10.7	8.9	13.3
236	25.1	19.8	29.8

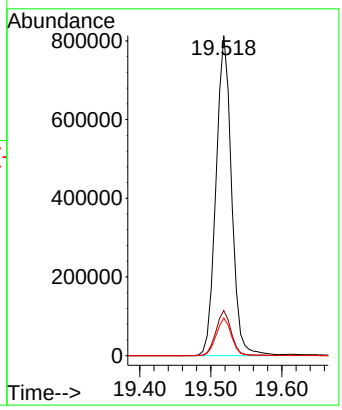




#77
Benzidine
Concen: 38.735 ng
RT: 19.518 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:184 Resp: 123206

Ion	Ratio	Lower	Upper
184	100		
185	14.1	11.5	17.3
183	11.8	9.4	14.2



Instrument :
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ClientSampleId :
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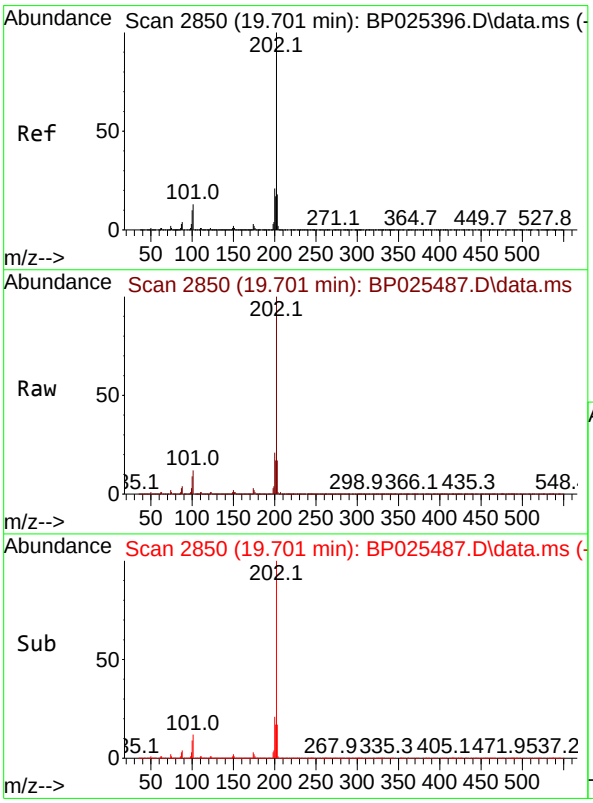
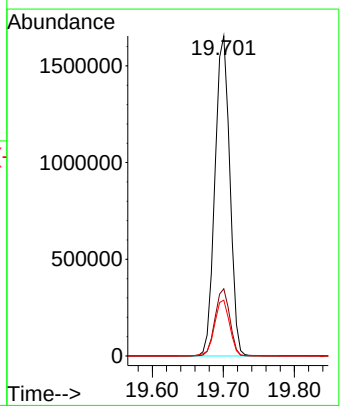
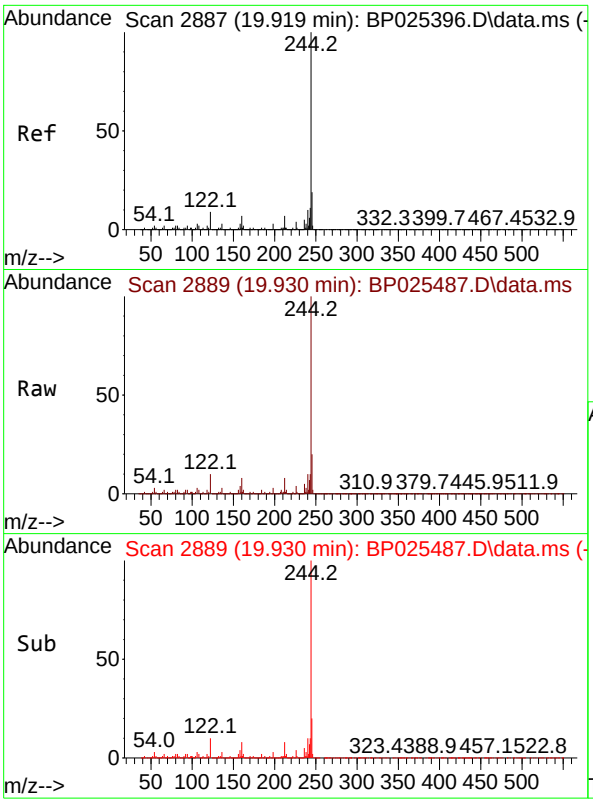


#78
Pyrene
Concen: 39.527 ng
RT: 19.701 min Scan# 2850
Delta R.T. -0.000 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:202 Resp: 2394461

Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.9	25.3
203	17.5	14.2	21.2

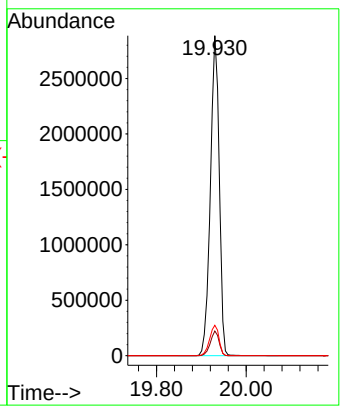




#79
Terphenyl-d14
Concen: 77.640 ng
RT: 19.930 min Scan# 2
Delta R.T. 0.012 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:244 Resp: 395507

Ion	Ratio	Lower	Upper
244	100		
212	7.7	5.8	8.6
122	9.5	7.4	11.2



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

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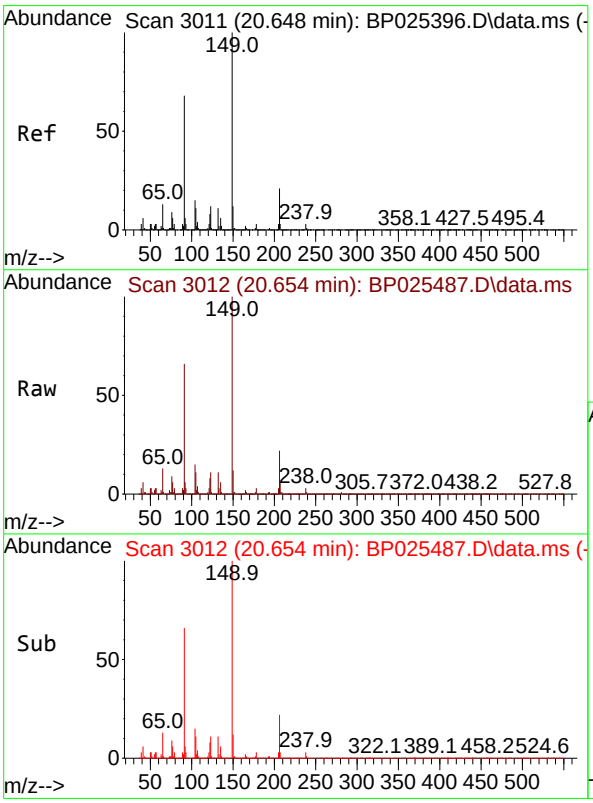
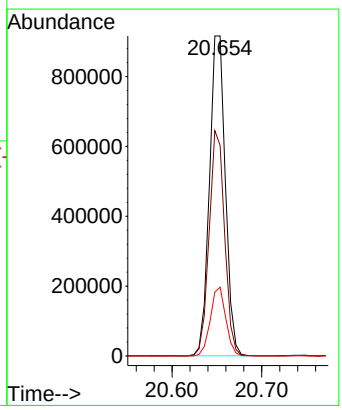
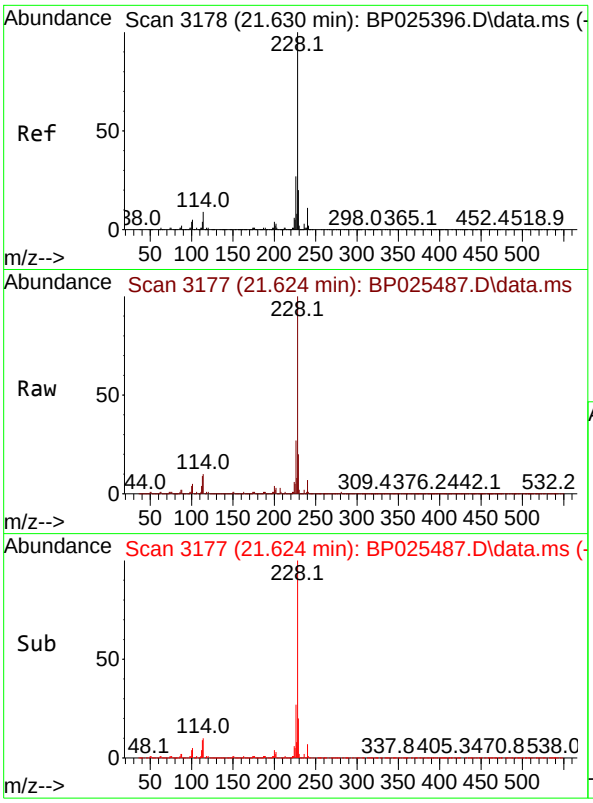


#80
Butylbenzylphthalate
Concen: 41.070 ng
RT: 20.654 min Scan# 3012
Delta R.T. 0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:149 Resp: 1127547

Ion	Ratio	Lower	Upper
149	100		
91	65.8	54.2	81.2
206	21.5	16.6	24.8

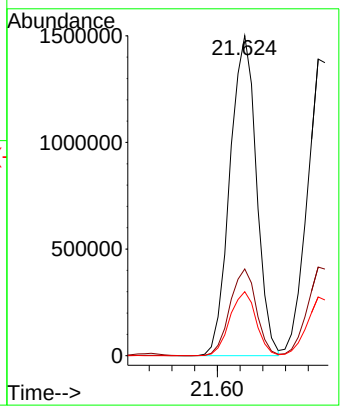




#81
Benzo(a)anthracene
Concen: 39.477 ng
RT: 21.624 min Scan# 3
Delta R.T. -0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:228 Resp: 242650

Ion	Ratio	Lower	Upper
228	100		
226	27.1	21.7	32.5
229	20.0	15.6	23.4



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

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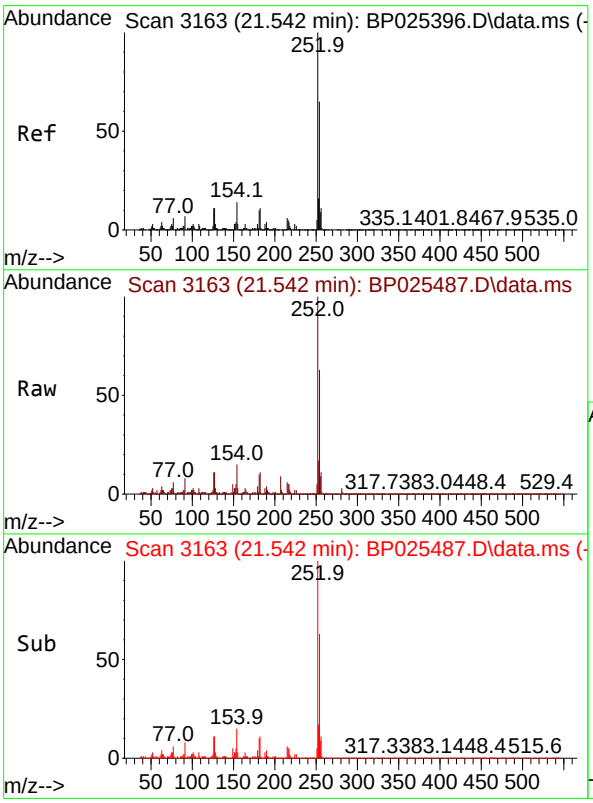
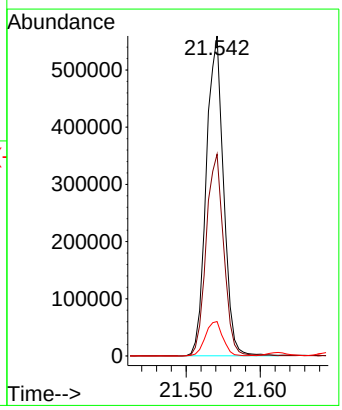
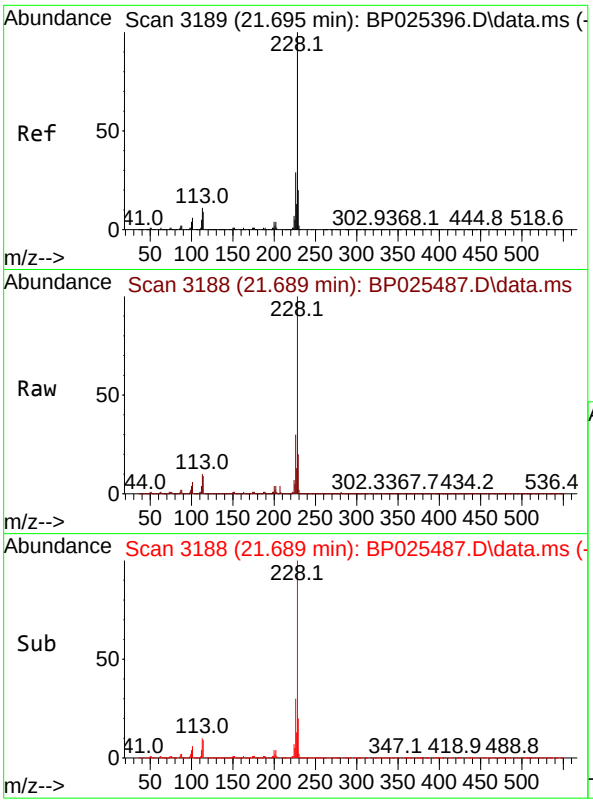


#82
3,3'-Dichlorobenzidine
Concen: 39.005 ng
RT: 21.542 min Scan# 3163
Delta R.T. -0.000 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:252 Resp: 903654

Ion	Ratio	Lower	Upper
252	100		
254	63.1	51.8	77.6
126	10.7	9.1	13.7

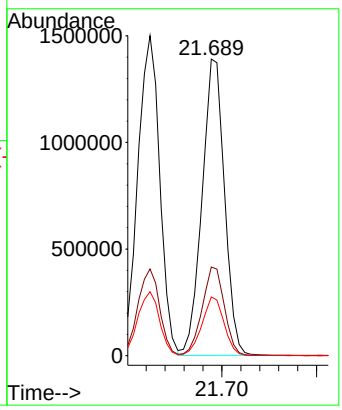




#83
Chrysene
Concen: 39.855 ng
RT: 21.689 min Scan# 3
Delta R.T. -0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:228 Resp: 229414

Ion	Ratio	Lower	Upper
228	100		
226	29.9	23.2	34.8
229	19.8	15.6	23.4



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

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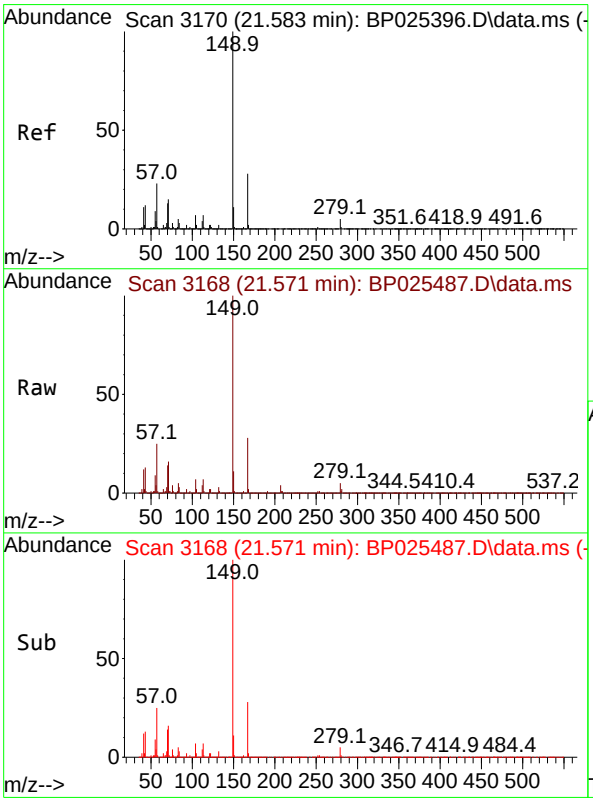
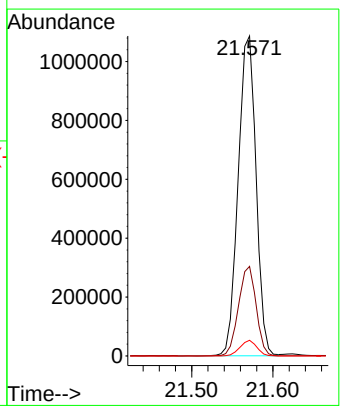
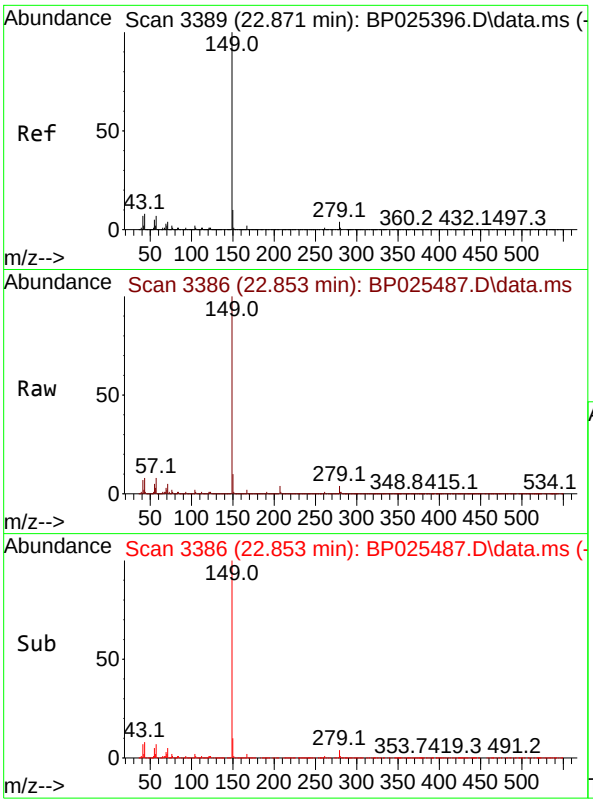


#84
Bis(2-ethylhexyl)phthalate
Concen: 41.071 ng
RT: 21.571 min Scan# 3168
Delta R.T. -0.012 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:149 Resp: 1659835

Ion	Ratio	Lower	Upper
149	100		
167	28.0	22.1	33.1
279	4.9	3.8	5.6





#85
Di-n-octyl phthalate
Concen: 40.906 ng
RT: 22.853 min Scan# 3
Delta R.T. -0.018 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:149 Resp: 284353

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	8.5	6.3	9.5

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

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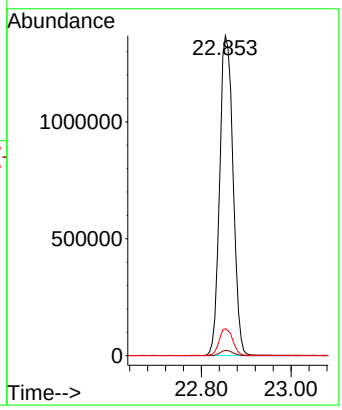
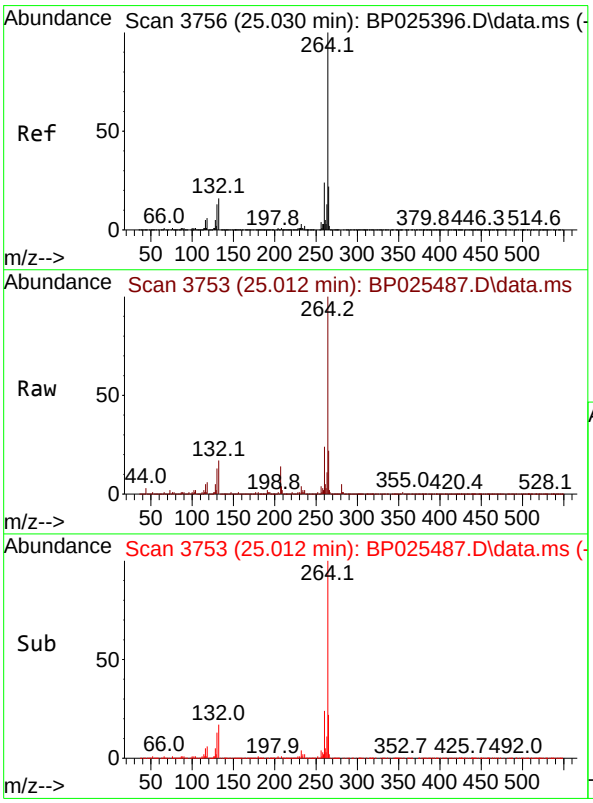
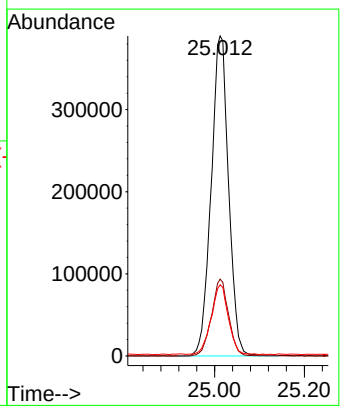


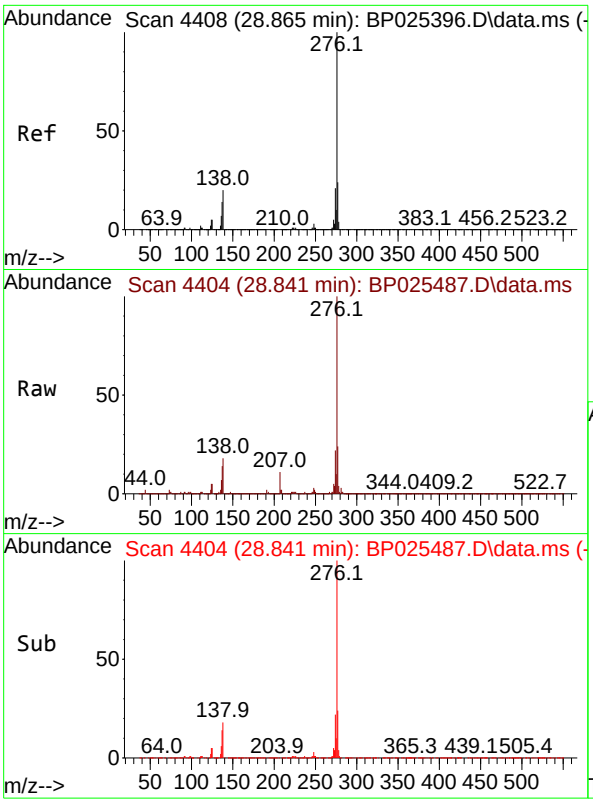


#86
Perylene-d12
Concen: 20.000 ng
RT: 25.012 min Scan# 3753
Delta R.T. -0.018 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:264 Resp: 1054169

Ion	Ratio	Lower	Upper
264	100		
260	24.0	19.3	28.9
265	22.2	17.4	26.0

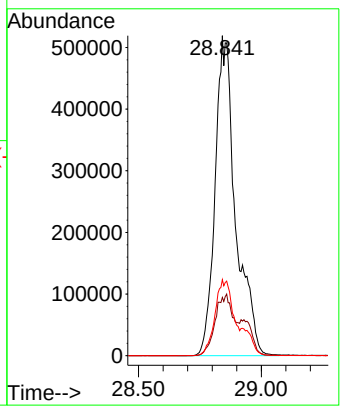




#87
Indeno(1,2,3-cd)pyrene
Concen: 39.095 ng m
RT: 28.841 min Scan# 4
Delta R.T. -0.024 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:276 Resp: 302236

Ion	Ratio	Lower	Upper
276	100		
138	17.1	12.9	19.3
277	10.8	17.0	25.6



Instrument :
BNA_P
ClientSampleId :
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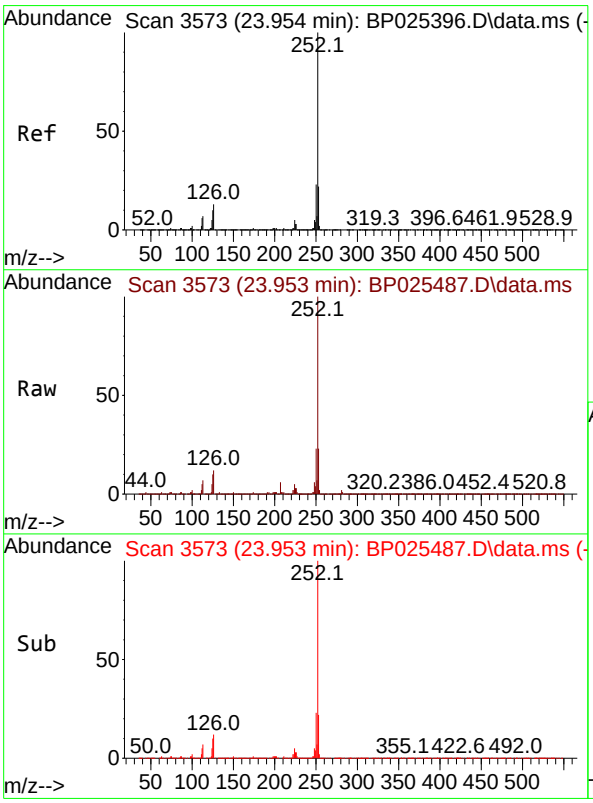
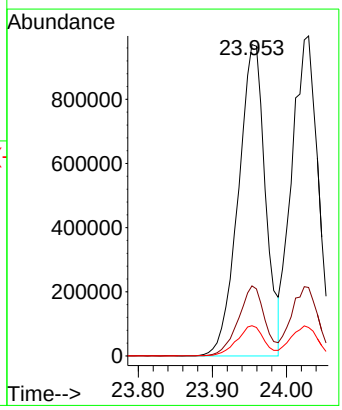
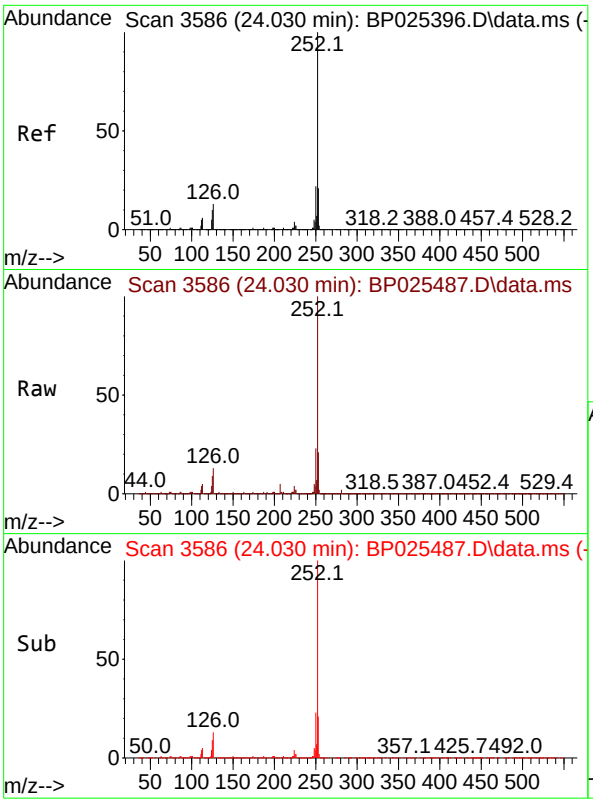


#88
Benzo(b)fluoranthene
Concen: 39.761 ng
RT: 23.953 min Scan# 3573
Delta R.T. -0.000 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:252 Resp: 2471608

Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.7	26.5
125	9.7	7.9	11.9

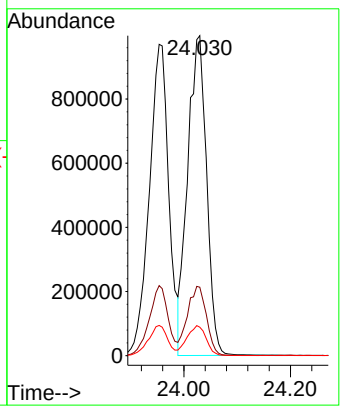




#89
Benzo(k)fluoranthene
Concen: 39.407 ng
RT: 24.030 min Scan# 3
Delta R.T. -0.000 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:252 Resp: 245123

Ion	Ratio	Lower	Upper
252	100		
253	21.4	17.1	25.7
125	8.9	7.8	11.6



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

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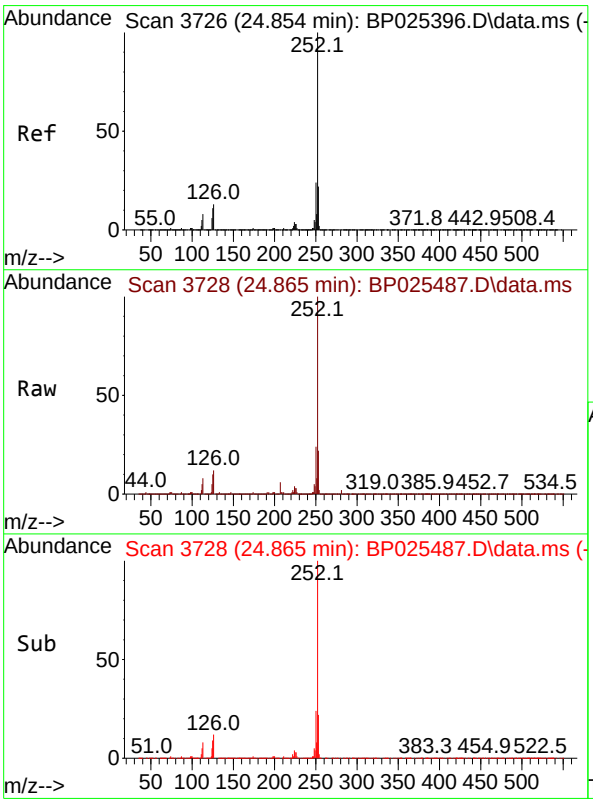
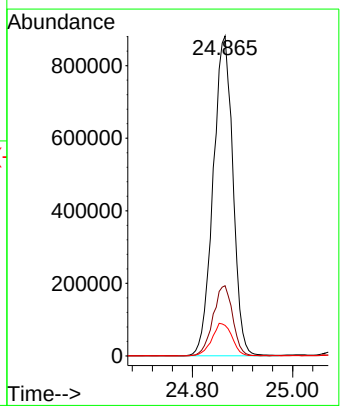
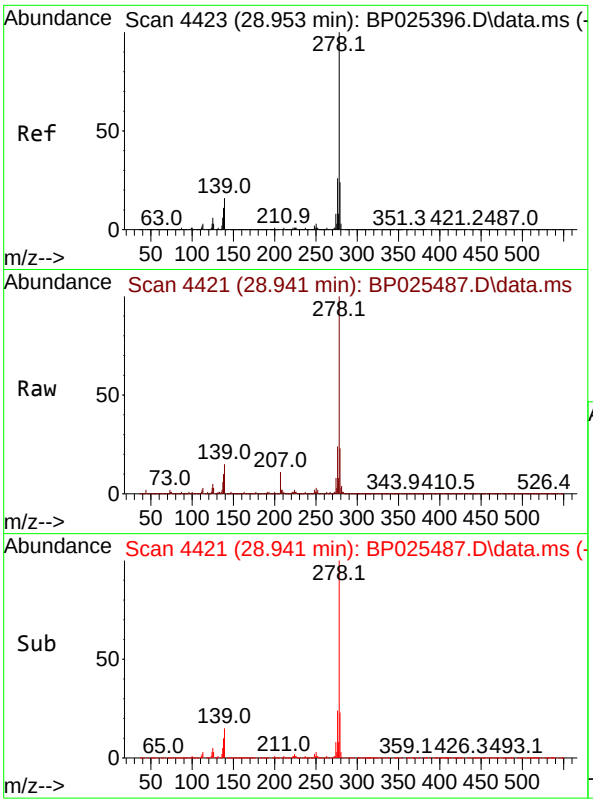


#90
Benzo(a)pyrene
Concen: 39.773 ng
RT: 24.865 min Scan# 3728
Delta R.T. 0.012 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:252 Resp: 2406620

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.5	26.3
125	9.5	8.7	13.1

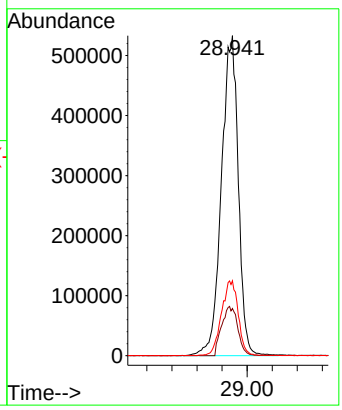




#91
Dibenzo(a,h)anthracene
Concen: 39.366 ng
RT: 28.941 min Scan# 4
Delta R.T. -0.012 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:278 Resp: 248703

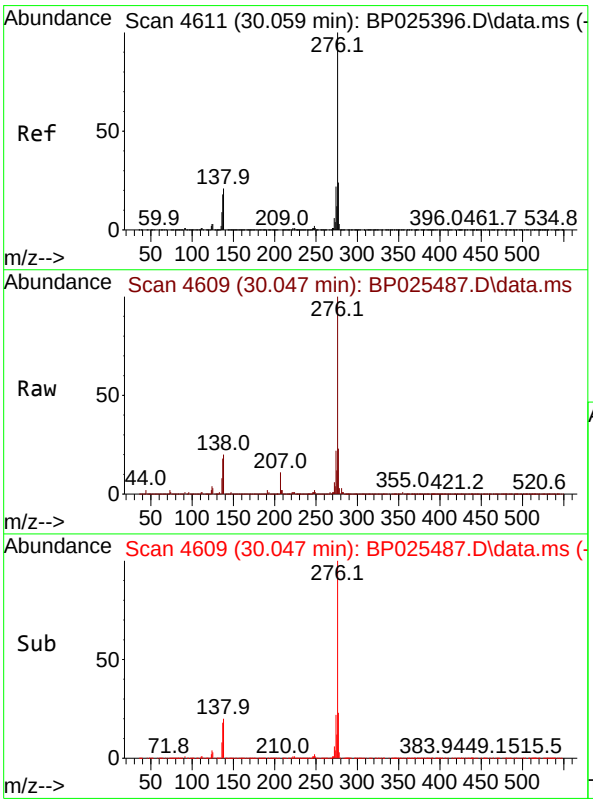
Ion	Ratio	Lower	Upper
278	100		
139	14.8	13.0	19.4
279	23.4	19.4	29.2



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

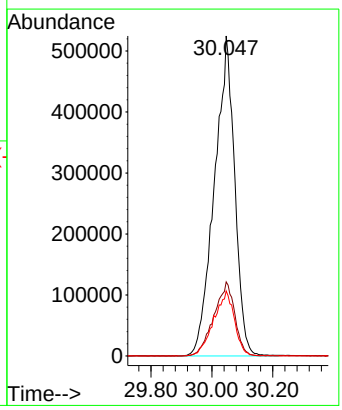
Reviewed By :Rahul Chavli 08/20/2025
Supervised By :Jagrut Upadhyay 08/20/2025



#92
Benzo(g,h,i)perylene
Concen: 39.026 ng
RT: 30.047 min Scan# 4609
Delta R.T. -0.012 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:276 Resp: 2423566

Ion	Ratio	Lower	Upper
276	100		
277	23.2	19.4	29.0
138	20.3	16.7	25.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081925\
Data File : BP025487.D
Acq On : 19 Aug 2025 23:46
Operator : CG/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: Aug 20 02:26:31 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 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	101	0.00
2		1,4-Dioxane	0.472	0.461	2.3	105	0.00
3		Pyridine	1.291	1.256	2.7	104	0.00
4		n-Nitrosodimethylamine	0.532	0.578	-8.6	114	0.00
5	S	2-Fluorophenol	1.204	1.204	0.0	105	0.00
6		Aniline	2.080	2.116	-1.7	106	0.00
7	S	Phenol-d6	1.544	1.570	-1.7	105	0.00
8		2-Chlorophenol	1.359	1.389	-2.2	107	0.00
9		Benzaldehyde	1.082	0.876	19.0	65	0.00
10	C	Phenol	1.620	1.661	-2.5	106	0.00
11		bis(2-Chloroethyl)ether	1.263	1.268	-0.4	105	0.00
12		1,3-Dichlorobenzene	1.499	1.501	-0.1	105	0.00
13	C	1,4-Dichlorobenzene	1.532	1.525	0.5	105	0.00
14		1,2-Dichlorobenzene	1.483	1.477	0.4	104	0.00
15		Benzyl Alcohol	1.227	1.247	-1.6	105	0.00
16		2,2'-oxybis(1-Chloropropane	1.692	1.784	-5.4	111	0.00
17		2-Methylphenol	1.125	1.152	-2.4	105	0.00
18		Hexachloroethane	0.563	0.566	-0.5	105	0.00
19	P	n-Nitroso-di-n-propylamine	1.023	1.046	-2.2	106	0.00
20		3+4-Methylphenols	1.560	1.571	-0.7	104	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	102	0.00
22		Acetophenone	0.502	0.503	-0.2	106	0.00
23	S	Nitrobenzene-d5	0.395	0.401	-1.5	107	0.00
24		Nitrobenzene	0.353	0.362	-2.5	107	0.00
25		Isophorone	0.700	0.705	-0.7	107	0.00
26	C	2-Nitrophenol	0.181	0.185	-2.2	105	0.00
27		2,4-Dimethylphenol	0.312	0.315	-1.0	105	0.00
28		bis(2-Chloroethoxy)methane	0.423	0.427	-0.9	107	0.00
29	C	2,4-Dichlorophenol	0.310	0.313	-1.0	105	0.00
30		1,2,4-Trichlorobenzene	0.340	0.331	2.6	104	0.00
31		Naphthalene	1.040	1.035	0.5	106	0.00
32		Benzoic acid	0.230	0.300	-30.4#	135	0.02
33		4-Chloroaniline	0.459	0.467	-1.7	106	0.00
34	C	Hexachlorobutadiene	0.211	0.207	1.9	103	0.00
35		Caprolactam	0.114	0.117	-2.6	109	0.00
36	C	4-Chloro-3-methylphenol	0.355	0.367	-3.4	108	0.00
37		2-Methylnaphthalene	0.676	0.673	0.4	106	0.00
38		1-Methylnaphthalene	0.719	0.710	1.3	106	0.00
39	I	Acenaphthene-d10	1.000	1.000	0.0	102	0.00
40		1,2,4,5-Tetrachlorobenzene	0.578	0.572	1.0	104	0.00
41	P	Hexachlorocyclopentadiene	0.349	0.402	-15.2	118	0.00
42	S	2,4,6-Tribromophenol	0.269	0.278	-3.3	108	0.00
43	C	2,4,6-Trichlorophenol	0.390	0.400	-2.6	107	0.00
44		2,4,5-Trichlorophenol	0.427	0.443	-3.7	107	0.00
45	S	2-Fluorobiphenyl	1.463	1.408	3.8	103	0.00
46		1,1'-Biphenyl	1.453	1.462	-0.6	106	0.00
47		2-Chloronaphthalene	1.131	1.130	0.1	105	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081925\
Data File : BP025487.D
Acq On : 19 Aug 2025 23:46
Operator : CG/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: Aug 20 02:26:31 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 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	0.329	0.359	-9.1	111	0.00
49		Acenaphthylene	1.871	1.889	-1.0	107	0.00
50		Dimethylphthalate	1.465	1.503	-2.6	110	0.00
51		2,6-Dinitrotoluene	0.309	0.327	-5.8	108	0.00
52	C	Acenaphthene	1.098	1.071	2.5	105	0.00
53		3-Nitroaniline	0.347	0.367	-5.8	110	0.00
54	P	2,4-Dinitrophenol	0.165	0.332	-101.2#	207#	0.00
55		Dibenzofuran	1.736	1.710	1.5	104	0.00
56	P	4-Nitrophenol	0.285	0.301	-5.6	110	0.01
57		2,4-Dinitrotoluene	0.440	0.475	-8.0	111	0.00
58		Fluorene	1.370	1.332	2.8	104	0.01
59		2,3,4,6-Tetrachlorophenol	0.377	0.388	-2.9	108	0.00
60		Diethylphthalate	1.488	1.537	-3.3	110	0.00
61		4-Chlorophenyl-phenylether	0.681	0.664	2.5	104	0.00
62		4-Nitroaniline	0.356	0.368	-3.4	107	0.01
63		Azobenzene	1.274	1.376	-8.0	114	0.01
64	I	Phenanthrene-d10	1.000	1.000	0.0	102	0.00
65		4,6-Dinitro-2-methylphenol	0.125	0.178	-42.4#	148	0.00
66	c	n-Nitrosodiphenylamine	0.610	0.625	-2.5	108	0.00
67		4-Bromophenyl-phenylether	0.220	0.222	-0.9	107	0.01
68		Hexachlorobenzene	0.255	0.255	0.0	108	0.01
69		Atrazine	0.228	0.232	-1.8	109	0.00
70	C	Pentachlorophenol	0.161	0.170	-5.6	111	0.00
71		Phenanthrene	1.099	1.084	1.4	107	0.00
72		Anthracene	1.122	1.144	-2.0	109	0.00
73		Carbazole	1.057	1.052	0.5	107	0.00
74		Di-n-butylphthalate	1.300	1.333	-2.5	110	0.00
75	C	Fluoranthene	1.311	1.283	2.1	107	0.00
76	I	Chrysene-d12	1.000	1.000	0.0	104	0.00
77		Benzidine	0.683	0.661	3.2	71	0.00
78		Pyrene	1.300	1.285	1.2	105	0.00
79	S	Terphenyl-d14	1.093	1.061	2.9	105	0.01
80		Butylbenzylphthalate	0.589	0.605	-2.7	108	0.00
81		Benzo(a)anthracene	1.319	1.302	1.3	106	0.00
82		3,3'-Dichlorobenzidine	0.497	0.485	2.4	103	0.00
83		Chrysene	1.235	1.231	0.3	108	0.00
84		Bis(2-ethylhexyl)phthalate	0.867	0.890	-2.7	111	-0.01
85	c	Di-n-octyl phthalate	1.492	1.525	-2.2	109	-0.02
86	I	Perylene-d12	1.000	1.000	0.0	103	-0.02
87		Indeno(1,2,3-cd)pyrene	1.467	1.434	2.2	105	-0.02
88		Benzo(b)fluoranthene	1.179	1.172	0.6	107	0.00
89		Benzo(k)fluoranthene	1.180	1.163	1.4	106	0.00
90	C	Benzo(a)pyrene	1.148	1.141	0.6	106	0.01
91		Dibenzo(a,h)anthracene	1.199	1.180	1.6	105	-0.01
92		Benzo(g,h,i)perylene	1.178	1.150	2.4	104	-0.01

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081925\
Data File : BP025487.D
Acq On : 19 Aug 2025 23:46
Operator : CG/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: Aug 20 02:26:31 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration

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

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081925\
Data File : BP025487.D
Acq On : 19 Aug 2025 23:46
Operator : CG/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: Aug 20 02:26:31 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 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	101	0.00
2		1,4-Dioxane	40.000	39.105	2.2	105	0.00
3		Pyridine	40.000	38.896	2.8	104	0.00
4		n-Nitrosodimethylamine	40.000	43.424	-8.6	114	0.00
5	S	2-Fluorophenol	80.000	79.946	0.1	105	0.00
6		Aniline	40.000	40.682	-1.7	106	0.00
7	S	Phenol-d6	80.000	81.335	-1.7	105	0.00
8		2-Chlorophenol	40.000	40.892	-2.2	107	0.00
9		Benzaldehyde	40.000	32.395	19.0	65	0.00
10	C	Phenol	40.000	41.003	-2.5	106	0.00
11		bis(2-Chloroethyl)ether	40.000	40.176	-0.4	105	0.00
12		1,3-Dichlorobenzene	40.000	40.056	-0.1	105	0.00
13	C	1,4-Dichlorobenzene	40.000	39.818	0.5	105	0.00
14		1,2-Dichlorobenzene	40.000	39.843	0.4	104	0.00
15		Benzyl Alcohol	40.000	40.657	-1.6	105	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	42.192	-5.5	111	0.00
17		2-Methylphenol	40.000	40.950	-2.4	105	0.00
18		Hexachloroethane	40.000	40.200	-0.5	105	0.00
19	P	n-Nitroso-di-n-propylamine	40.000	40.903	-2.3	106	0.00
20		3+4-Methylphenols	40.000	40.292	-0.7	104	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	102	0.00
22		Acetophenone	40.000	40.149	-0.4	106	0.00
23	S	Nitrobenzene-d5	80.000	81.140	-1.4	107	0.00
24		Nitrobenzene	40.000	40.951	-2.4	107	0.00
25		Isophorone	40.000	40.304	-0.8	107	0.00
26	C	2-Nitrophenol	40.000	40.785	-2.0	105	0.00
27		2,4-Dimethylphenol	40.000	40.448	-1.1	105	0.00
28		bis(2-Chloroethoxy)methane	40.000	40.338	-0.8	107	0.00
29	C	2,4-Dichlorophenol	40.000	40.398	-1.0	105	0.00
30		1,2,4-Trichlorobenzene	40.000	38.983	2.5	104	0.00
31		Naphthalene	40.000	39.844	0.4	106	0.00
32		Benzoic acid	40.000	52.196	-30.5#	135	0.02
33		4-Chloroaniline	40.000	40.661	-1.7	106	0.00
34	C	Hexachlorobutadiene	40.000	39.100	2.2	103	0.00
35		Caprolactam	40.000	41.192	-3.0	109	0.00
36	C	4-Chloro-3-methylphenol	40.000	41.295	-3.2	108	0.00
37		2-Methylnaphthalene	40.000	39.806	0.5	106	0.00
38		1-Methylnaphthalene	40.000	39.466	1.3	106	0.00
39	I	Acenaphthene-d10	20.000	20.000	0.0	102	0.00
40		1,2,4,5-Tetrachlorobenzene	40.000	39.618	1.0	104	0.00
41	P	Hexachlorocyclopentadiene	40.000	46.040	-15.1	118	0.00
42	S	2,4,6-Tribromophenol	80.000	82.710	-3.4	108	0.00
43	C	2,4,6-Trichlorophenol	40.000	40.986	-2.5	107	0.00
44		2,4,5-Trichlorophenol	40.000	41.492	-3.7	107	0.00
45	S	2-Fluorobiphenyl	80.000	76.967	3.8	103	0.00
46		1,1'-Biphenyl	40.000	40.264	-0.7	106	0.00
47		2-Chloronaphthalene	40.000	39.989	0.0	105	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081925\
Data File : BP025487.D
Acq On : 19 Aug 2025 23:46
Operator : CG/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: Aug 20 02:26:31 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 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	43.643	-9.1	111	0.00
49		Acenaphthylene	40.000	40.393	-1.0	107	0.00
50		Dimethylphthalate	40.000	41.055	-2.6	110	0.00
51		2,6-Dinitrotoluene	40.000	42.345	-5.9	108	0.00
52	C	Acenaphthene	40.000	39.004	2.5	105	0.00
53		3-Nitroaniline	40.000	42.258	-5.6	110	0.00
54	P	2,4-Dinitrophenol	40.000	80.460	-101.1#	207	0.00
55		Dibenzofuran	40.000	39.380	1.5	104	0.00
56	P	4-Nitrophenol	40.000	42.159	-5.4	110	0.01
57		2,4-Dinitrotoluene	40.000	43.171	-7.9	111	0.00
58		Fluorene	40.000	38.896	2.8	104	0.01
59		2,3,4,6-Tetrachlorophenol	40.000	41.154	-2.9	108	0.00
60		Diethylphthalate	40.000	41.316	-3.3	110	0.00
61		4-Chlorophenyl-phenylether	40.000	38.989	2.5	104	0.00
62		4-Nitroaniline	40.000	41.329	-3.3	107	0.01
63		Azobenzene	40.000	43.196	-8.0	114	0.01
64	I	Phenanthrene-d10	20.000	20.000	0.0	102	0.00
65		4,6-Dinitro-2-methylphenol	40.000	57.103	-42.8#	148	0.00
66	c	n-Nitrosodiphenylamine	40.000	41.022	-2.6	108	0.00
67		4-Bromophenyl-phenylether	40.000	40.448	-1.1	107	0.01
68		Hexachlorobenzene	40.000	39.997	0.0	108	0.01
69		Atrazine	40.000	40.669	-1.7	109	0.00
70	C	Pentachlorophenol	40.000	42.259	-5.6	111	0.00
71		Phenanthrene	40.000	39.449	1.4	107	0.00
72		Anthracene	40.000	40.780	-2.0	109	0.00
73		Carbazole	40.000	39.801	0.5	107	0.00
74		Di-n-butylphthalate	40.000	41.022	-2.6	110	0.00
75	C	Fluoranthene	40.000	39.147	2.1	107	0.00
76	I	Chrysene-d12	20.000	20.000	0.0	104	0.00
77		Benzidine	40.000	38.735	3.2	71	0.00
78		Pyrene	40.000	39.527	1.2	105	0.00
79	S	Terphenyl-d14	80.000	77.640	2.9	105	0.01
80		Butylbenzylphthalate	40.000	41.070	-2.7	108	0.00
81		Benzo(a)anthracene	40.000	39.477	1.3	106	0.00
82		3,3'-Dichlorobenzidine	40.000	39.005	2.5	103	0.00
83		Chrysene	40.000	39.855	0.4	108	0.00
84		Bis(2-ethylhexyl)phthalate	40.000	41.071	-2.7	111	-0.01
85	c	Di-n-octyl phthalate	40.000	40.906	-2.3	109	-0.02
86	I	Perylene-d12	20.000	20.000	0.0	103	-0.02
87		Indeno(1,2,3-cd)pyrene	40.000	39.095	2.3	105	-0.02
88		Benzo(b)fluoranthene	40.000	39.761	0.6	107	0.00
89		Benzo(k)fluoranthene	40.000	39.407	1.5	106	0.00
90	C	Benzo(a)pyrene	40.000	39.773	0.6	106	0.01
91		Dibenzo(a,h)anthracene	40.000	39.366	1.6	105	-0.01
92		Benzo(g,h,i)perylene	40.000	39.026	2.4	104	-0.01

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081925\
Data File : BP025487.D
Acq On : 19 Aug 2025 23:46
Operator : CG/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: Aug 20 02:26:31 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration

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

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

(#) = Out of Range SPCC's out = 0 CCC's out = 0

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: FIRS02

Lab Code: ACE SDG No.: Q2819

Instrument ID: BNA_P Calibration Date/Time: 08/20/2025 10:41

Lab File ID: BP025502.D Init. Calib. Date(s): 08/14/2025 08/14/2025

EPA Sample No.: SSTDCCC040EC Init. Calib. Time(s): 12:33 17:24

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.204	1.219		1.2	50.0
Benzaldehyde	1.082	0.644		-40.5	50.0
Phenol-d6	1.544	1.572		1.8	50.0
Phenol	1.620	1.653		2.0	50.0
bis(2-Chloroethyl)ether	1.263	1.267		0.3	50.0
2-Chlorophenol	1.359	1.359		0.0	50.0
2-Methylphenol	1.125	1.140		1.3	50.0
2,2-oxybis(1-Chloropropane)	1.692	1.764		4.3	50.0
Acetophenone	0.502	0.501		-0.2	50.0
3+4-Methylphenols	1.560	1.551		-0.6	50.0
n-Nitroso-di-n-propylamine	1.023	1.028	0.050	0.5	50.0
Nitrobenzene-d5	0.395	0.403		2.0	50.0
Hexachloroethane	0.563	0.577		2.5	50.0
Nitrobenzene	0.353	0.356		0.9	50.0
Isophorone	0.700	0.700		0.0	50.0
2-Nitrophenol	0.181	0.180		-0.6	50.0
2,4-Dimethylphenol	0.312	0.312		0.0	50.0
bis(2-Chloroethoxy)methane	0.423	0.417		-1.4	50.0
2,4-Dichlorophenol	0.310	0.314		1.3	50.0
Naphthalene	1.040	1.013		-2.6	50.0
4-Chloroaniline	0.459	0.455		-0.9	50.0
Hexachlorobutadiene	0.211	0.211		0.0	50.0
Caprolactam	0.114	0.110		-3.5	50.0
4-Chloro-3-methylphenol	0.355	0.357		0.6	50.0
2-Methylnaphthalene	0.676	0.655		-3.1	50.0
Hexachlorocyclopentadiene	0.349	0.364	0.050	4.3	50.0
2,4,6-Trichlorophenol	0.390	0.399		2.3	50.0
2-Fluorobiphenyl	1.463	1.455		-0.5	50.0
2,4,5-Trichlorophenol	0.427	0.438		2.6	50.0
1,1-Biphenyl	1.453	1.441		-0.8	50.0
2-Chloronaphthalene	1.131	1.125		-0.5	50.0
2-Nitroaniline	0.329	0.352		7.0	50.0
Dimethylphthalate	1.465	1.455		-0.7	50.0
Acenaphthylene	1.871	1.865		-0.3	50.0
2,6-Dinitrotoluene	0.309	0.317		2.6	50.0
3-Nitroaniline	0.347	0.356		2.6	50.0
Acenaphthene	1.098	1.090		-0.7	50.0
2,4-Dinitrophenol	0.165	0.178	0.050	7.9	50.0
4-Nitrophenol	0.285	0.289	0.050	1.4	50.0

Form VII SV-1

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: FIRS02

Lab Code: ACE SDG No.: Q2819

Instrument ID: BNA_P Calibration Date/Time: 08/20/2025 10:41

Lab File ID: BP025502.D Init. Calib. Date(s): 08/14/2025 08/14/2025

EPA Sample No.: SSTDCCC040EC Init. Calib. Time(s): 12:33 17:24

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.736	1.703		-1.9	50.0
2,4-Dinitrotoluene	0.440	0.456		3.6	50.0
Diethylphthalate	1.488	1.507		1.3	50.0
4-Chlorophenyl-phenylether	0.681	0.663		-2.6	50.0
Fluorene	1.370	1.316		-3.9	50.0
4-Nitroaniline	0.356	0.361		1.4	50.0
4,6-Dinitro-2-methylphenol	0.125	0.131		4.8	50.0
n-Nitrosodiphenylamine	0.610	0.612		0.3	50.0
2,4,6-Tribromophenol	0.269	0.271		0.7	50.0
4-Bromophenyl-phenylether	0.220	0.221		0.5	50.0
Hexachlorobenzene	0.255	0.254		-0.4	50.0
Atrazine	0.228	0.229		0.4	50.0
Pentachlorophenol	0.161	0.171		6.2	50.0
Phenanthrene	1.099	1.073		-2.4	50.0
Anthracene	1.122	1.104		-1.6	50.0
Carbazole	1.057	1.038		-1.8	50.0
Di-n-butylphthalate	1.300	1.312		0.9	50.0
Fluoranthene	1.311	1.295		-1.2	50.0
Pyrene	1.300	1.234		-5.1	50.0
Terphenyl-d14	1.093	1.063		-2.7	50.0
Butylbenzylphthalate	0.589	0.598		1.5	50.0
3,3-Dichlorobenzidine	0.497	0.488		-1.8	50.0
Benzo(a)anthracene	1.319	1.290		-2.2	50.0
Chrysene	1.235	1.218		-1.4	50.0
Bis(2-ethylhexyl)phthalate	0.867	0.889		2.5	50.0
Di-n-octyl phthalate	1.492	1.539		3.2	50.0
Benzo(b)fluoranthene	1.179	1.173		-0.5	50.0
Benzo(k)fluoranthene	1.180	1.196		1.4	50.0
Benzo(a)pyrene	1.148	1.133		-1.3	50.0
Indeno(1,2,3-cd)pyrene	1.467	1.427		-2.7	50.0
Dibenzo(a,h)anthracene	1.199	1.179		-1.7	50.0
Benzo(g,h,i)perylene	1.178	1.139		-3.3	50.0
1,2,4,5-Tetrachlorobenzene	0.578	0.586		1.4	50.0
1,4-Dioxane	0.472	0.487		3.2	50.0
2,3,4,6-Tetrachlorophenol	0.377	0.383		1.6	50.0

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081925\
Data File : BP025502.D
Acq On : 20 Aug 2025 10:41
Operator : CG/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Aug 20 11:50:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 08/20/2025
Supervised By :Jagrut Upadhyay 08/21/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.784	152	147637	20.000	ng	-0.01
21) Naphthalene-d8	10.554	136	617928	20.000	ng	0.00
39) Acenaphthene-d10	14.407	164	400331	20.000	ng	0.00
64) Phenanthrene-d10	17.207	188	794586	20.000	ng	0.00
76) Chrysene-d12	21.648	240	859938	20.000	ng	0.00
86) Perylene-d12	25.018	264	959319	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.402	112	719851	80.973	ng	0.00
7) Phenol-d6	6.966	99	928207	81.437	ng	0.00
23) Nitrobenzene-d5	8.931	82	996684	81.592	ng	0.00
42) 2,4,6-Tribromophenol	15.919	330	434204	80.580	ng	0.00
45) 2-Fluorobiphenyl	13.019	172	2329621	79.531	ng	0.00
79) Terphenyl-d14	19.930	244	3655452	77.772	ng	0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	3.331	88	143916	41.329	ng	98
3) Pyridine	3.731	79	384461	40.337	ng	95
4) n-Nitrosodimethylamine	3.631	42	170424	43.372	ng	94
6) Aniline	7.119	93	617192	40.190	ng	97
8) 2-Chlorophenol	7.360	128	401335	40.005	ng	98
9) Benzaldehyde	6.937	77	190261	23.826	ng	96
10) Phenol	6.990	94	487981	40.802	ng	96
11) bis(2-Chloroethyl)ether	7.219	93	374074	40.129	ng	99
12) 1,3-Dichlorobenzene	7.678	146	441153	39.880	ng	96
13) 1,4-Dichlorobenzene	7.819	146	454745	40.220	ng	99
14) 1,2-Dichlorobenzene	8.137	146	437042	39.931	ng	98
15) Benzyl Alcohol	8.019	79	368154	40.652	ng	97
16) 2,2'-oxybis(1-Chloropr...	8.313	45	520729	41.700	ng	98
17) 2-Methylphenol	8.225	107	336589	40.522	ng	100
18) Hexachloroethane	8.860	117	170458	41.003	ng	97
19) n-Nitroso-di-n-propyla...	8.584	70	303621	40.216	ng	97
20) 3+4-Methylphenols	8.549	107	458019	39.780	ng	97
22) Acetophenone	8.601	105	619709	39.991	ng	98
24) Nitrobenzene	8.972	77	440063	40.309	ng	98
25) Isophorone	9.496	82	864797	40.003	ng	100
26) 2-Nitrophenol	9.678	139	223032	39.808	ng	97
27) 2,4-Dimethylphenol	9.737	122	385100	39.968	ng	97
28) bis(2-Chloroethoxy)met...	9.966	93	515756	39.468	ng	98
29) 2,4-Dichlorophenol	10.207	162	387958	40.533	ng	99
30) 1,2,4-Trichlorobenzene	10.419	180	408012	38.887	ng	97
31) Naphthalene	10.607	128	1252509	38.998	ng	100
32) Benzoic acid	9.878	122	284166	39.948	ng	96
33) 4-Chloroaniline	10.713	127	561871	39.605	ng	99
34) Hexachlorobutadiene	10.895	225	261058	39.951	ng	96
35) Caprolactam	11.490	113	136092	38.776	ng	98
36) 4-Chloro-3-methylphenol	11.831	107	441463	40.195	ng	96
37) 2-Methylnaphthalene	12.219	142	809155	38.714	ng	99
38) 1-Methylnaphthalene	12.437	142	851212	38.296	ng	100
40) 1,2,4,5-Tetrachloroben...	12.584	216	469176	40.579	ng	99
41) Hexachlorocyclopentadiene	12.566	237	291550	41.746	ng	99
43) 2,4,6-Trichlorophenol	12.831	196	319303	40.907	ng	98

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081925\
Data File : BP025502.D
Acq On : 20 Aug 2025 10:41
Operator : CG/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 33 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 08/20/2025
Supervised By :Jagrut Upadhyay 08/21/2025

Quant Time: Aug 20 11:50:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.895	196	350964	41.026	ng	99
46) 1,1'-Biphenyl	13.225	154	1153599	39.678	ng	99
47) 2-Chloronaphthalene	13.272	162	900445	39.783	ng	98
48) 2-Nitroaniline	13.472	65	281785	42.727	ng	97
49) Acenaphthylene	14.125	152	1492877	39.860	ng	100
50) Dimethylphthalate	13.854	163	1165139	39.744	ng	99
51) 2,6-Dinitrotoluene	13.972	165	253787	41.073	ng	93
52) Acenaphthene	14.478	154	872980m	39.710	ng	
53) 3-Nitroaniline	14.301	138	285327	41.043	ng	97
54) 2,4-Dinitrophenol	14.507	184	142309	43.128	ng	97
55) Dibenzofuran	14.813	168	1363388	39.226	ng	98
56) 4-Nitrophenol	14.619	139	231578	40.538	ng	92
57) 2,4-Dinitrotoluene	14.766	165	365491	41.459	ng	96
58) Fluorene	15.466	166	1053490	38.412	ng	99
59) 2,3,4,6-Tetrachlorophenol	15.036	232	306484	40.574	ng	98
60) Diethylphthalate	15.242	149	1206790	40.513	ng	99
61) 4-Chlorophenyl-phenyle...	15.466	204	531056	38.934	ng	97
62) 4-Nitroaniline	15.483	138	288849	40.530	ng	93
63) Azobenzene	15.766	77	1076346	42.199	ng	98
65) 4,6-Dinitro-2-methylph...	15.542	198	207617	41.917	ng	93
66) n-Nitrosodiphenylamine	15.678	169	973360	40.171	ng	99
67) 4-Bromophenyl-phenylether	16.378	248	351898	40.268	ng	97
68) Hexachlorobenzene	16.495	284	404392	39.919	ng	98
69) Atrazine	16.654	200	364653	40.186	ng	100
70) Pentachlorophenol	16.842	266	271451	42.449	ng	96
71) Phenanthrene	17.242	178	1705125	39.064	ng	99
72) Anthracene	17.336	178	1754702	39.365	ng	99
73) Carbazole	17.613	167	1650038	39.300	ng	99
74) Di-n-butylphthalate	18.213	149	2085492	40.373	ng	100
75) Fluoranthene	19.330	202	2058062	39.528	ng	99
77) Benzidine	19.519	184	965340	32.893	ng	99
78) Pyrene	19.701	202	2123016	37.983	ng	100
80) Butylbenzylphthalate	20.654	149	1028893	40.617	ng	98
81) Benzo(a)anthracene	21.630	228	2219096	39.128	ng	99
82) 3,3'-Dichlorobenzidine	21.542	252	839996	39.295	ng	99
83) Chrysene	21.695	228	2094426	39.434	ng	99
84) Bis(2-ethylhexyl)phtha...	21.571	149	1528918	41.001	ng	99
85) Di-n-octyl phthalate	22.865	149	2647644	41.280	ng	98
87) Indeno(1,2,3-cd)pyrene	28.842	276	2736984	38.904	ng	98
88) Benzo(b)fluoranthene	23.959	252	2250091	39.777	ng	99
89) Benzo(k)fluoranthene	24.036	252	2294595	40.536	ng	99
90) Benzo(a)pyrene	24.871	252	2174497	39.490	ng	100
91) Dibenzo(a,h)anthracene	28.936	278	2262080	39.346	ng	98
92) Benzo(g,h,i)perylene	30.042	276	2184778	38.659	ng	100

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

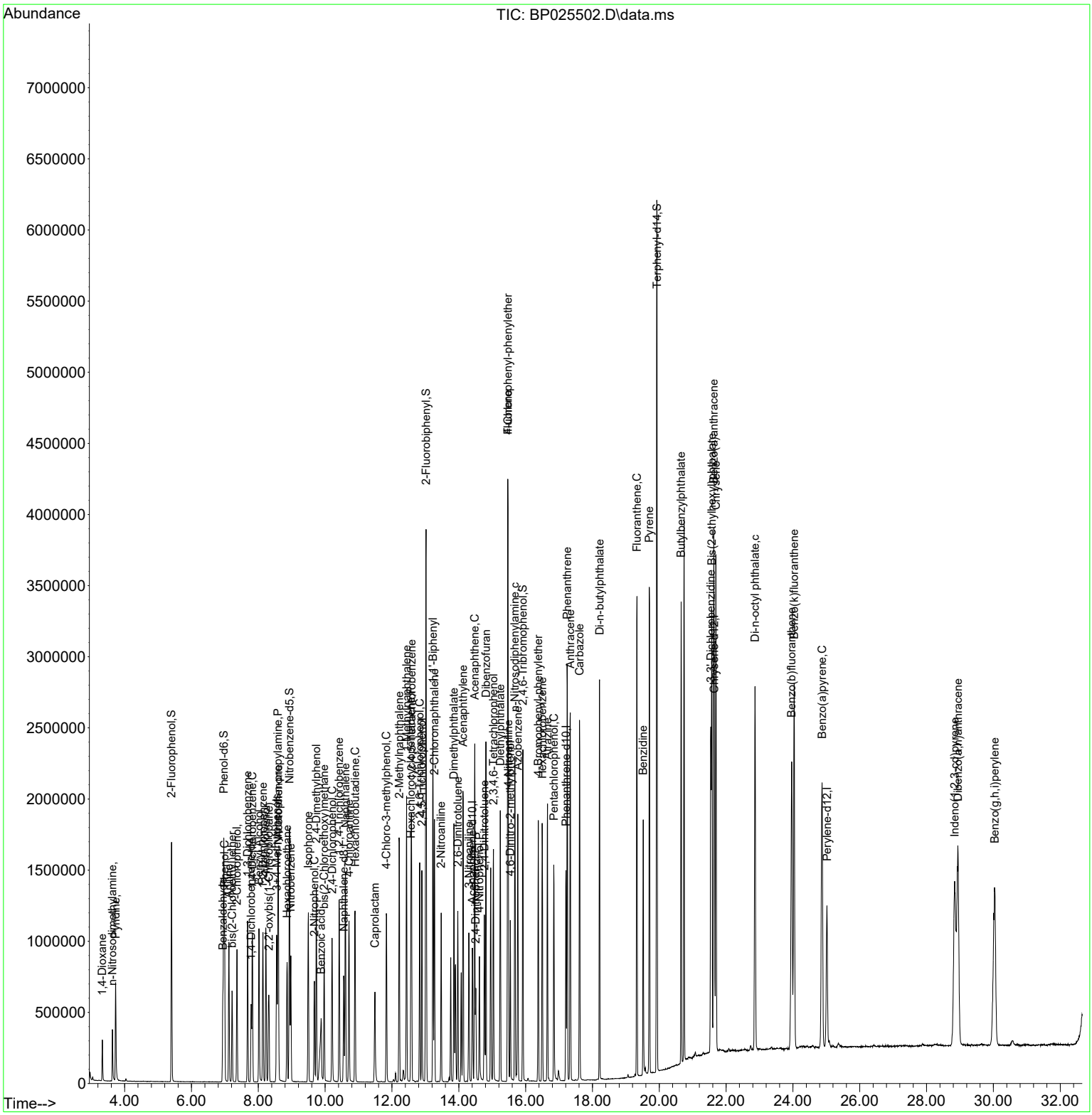
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081925\
Data File : BP025502.D
Acq On : 20 Aug 2025 10:41
Operator : CG/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 33 Sample Multiplier: 1

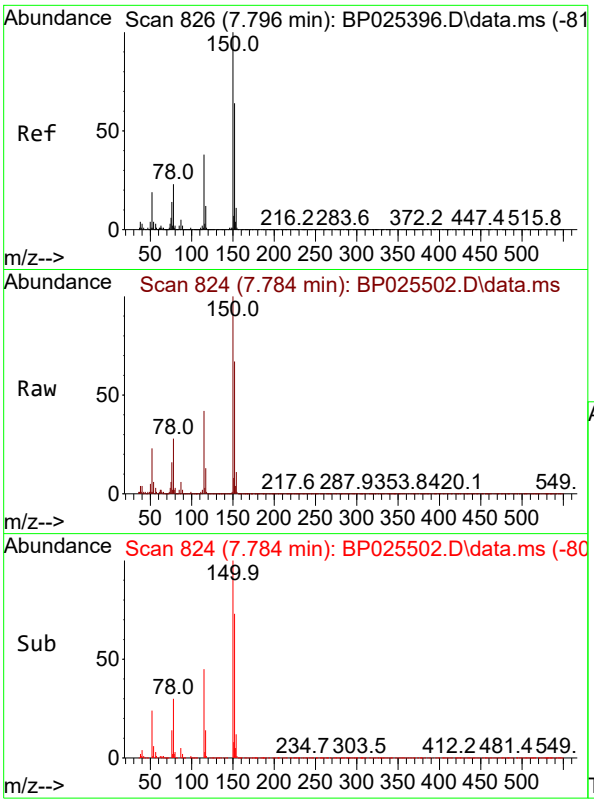
Quant Time: Aug 20 11:50:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 08/20/2025
Supervised By :Jagrut Upadhyay 08/21/2025

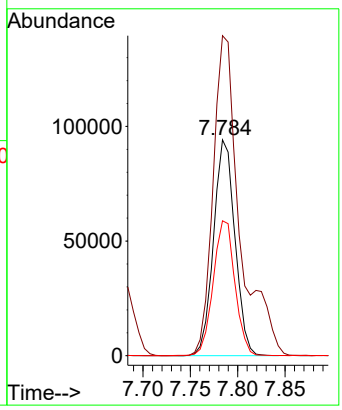




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.784 min Scan# 8
Delta R.T. -0.012 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:152 Resp: 14763

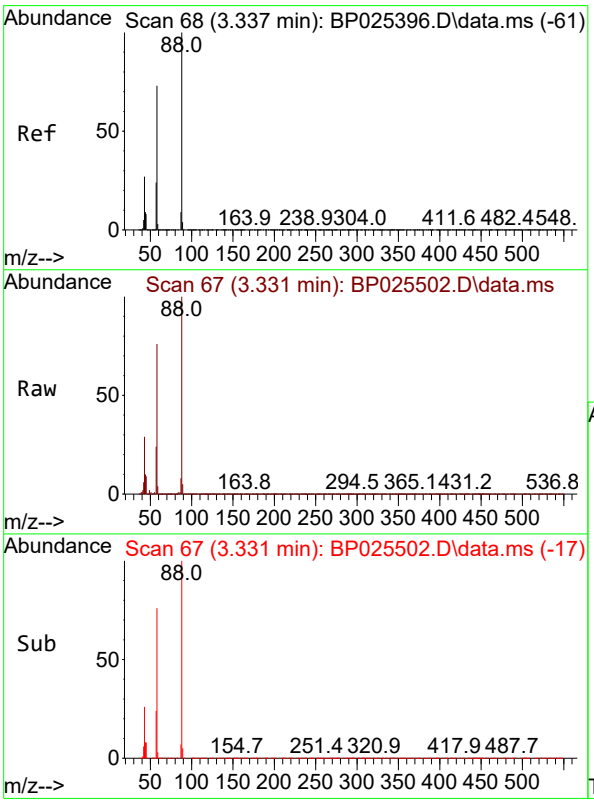
Ion	Ratio	Lower	Upper
152	100		
150	148.3	125.9	188.9
115	62.5	48.5	72.7



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Manual Integrations APPROVED

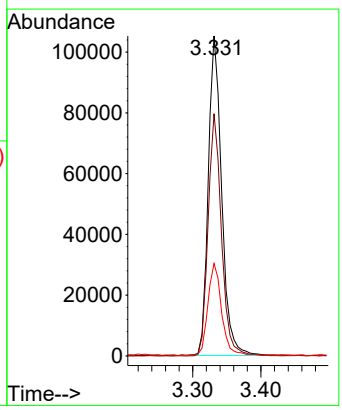
Reviewed By :Rahul Chavli 08/20/2025
Supervised By :Jagrut Upadhyay 08/21/2025

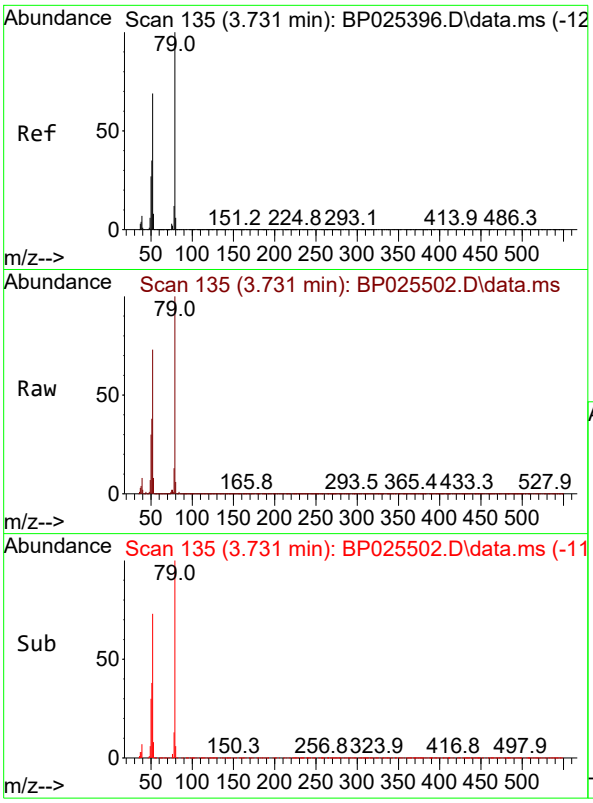


#2
1,4-Dioxane
Concen: 41.329 ng
RT: 3.331 min Scan# 67
Delta R.T. -0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion: 88 Resp: 143916

Ion	Ratio	Lower	Upper
88	100		
58	75.4	59.2	88.8
43	28.9	21.7	32.5

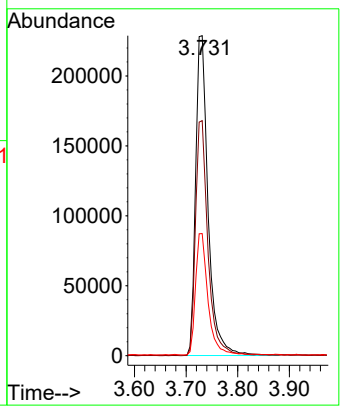




#3
Pyridine
Concen: 40.337 ng
RT: 3.731 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

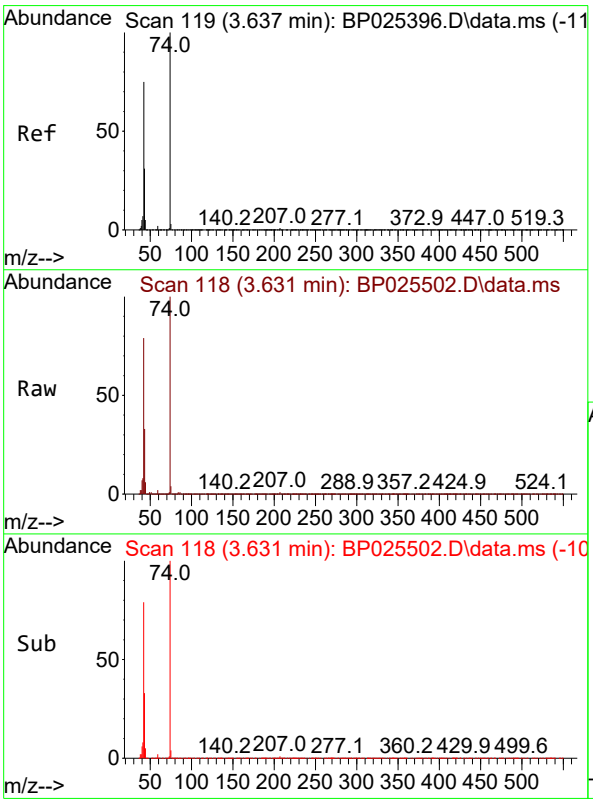
Tgt Ion: 79 Resp: 38446

Ion	Ratio	Lower	Upper
79	100		
52	73.4	55.5	83.3
51	38.2	28.3	42.5



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

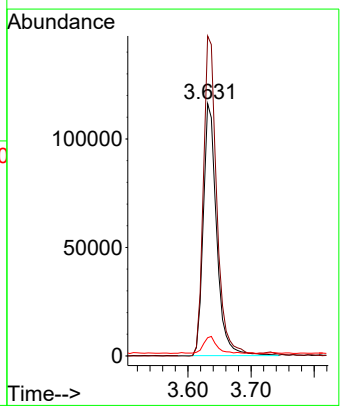
Manual Integrations APPROVED
Reviewed By :Rahul Chavli 08/20/2025
Supervised By :Jagrut Upadhyay 08/21/2025

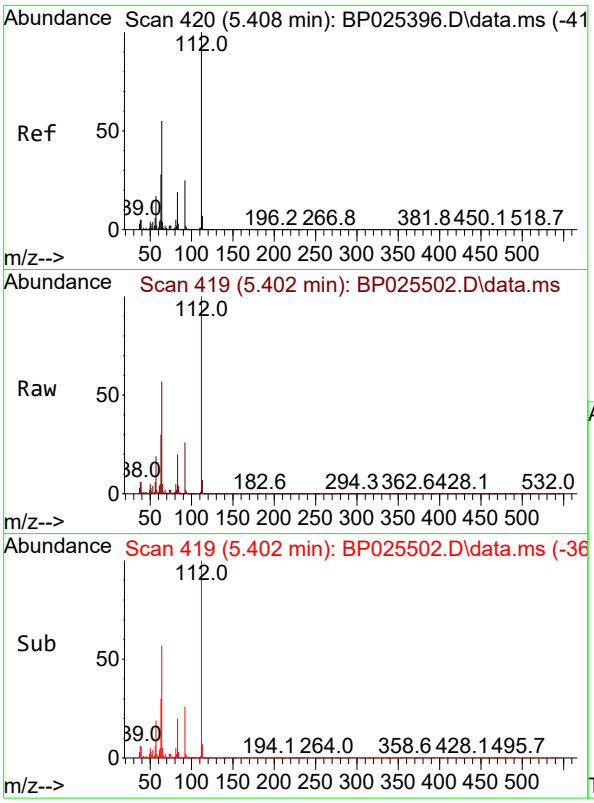


#4
n-Nitrosodimethylamine
Concen: 43.372 ng
RT: 3.631 min Scan# 118
Delta R.T. -0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion: 42 Resp: 170424

Ion	Ratio	Lower	Upper
42	100		
74	126.8	107.0	160.4
44	7.2	6.2	9.4

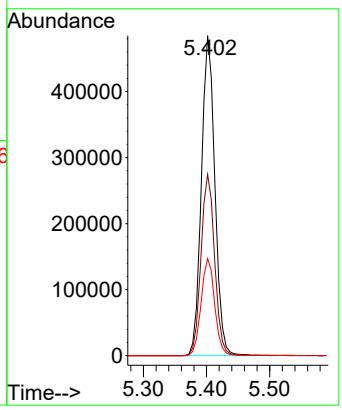




#5
2-Fluorophenol
Concen: 80.973 ng
RT: 5.402 min Scan# 4
Delta R.T. -0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:112 Resp: 71985

Ion	Ratio	Lower	Upper
112	100		
64	56.6	43.8	65.8
63	30.4	22.7	34.1



Instrument :
BNA_P
ClientSampleId :
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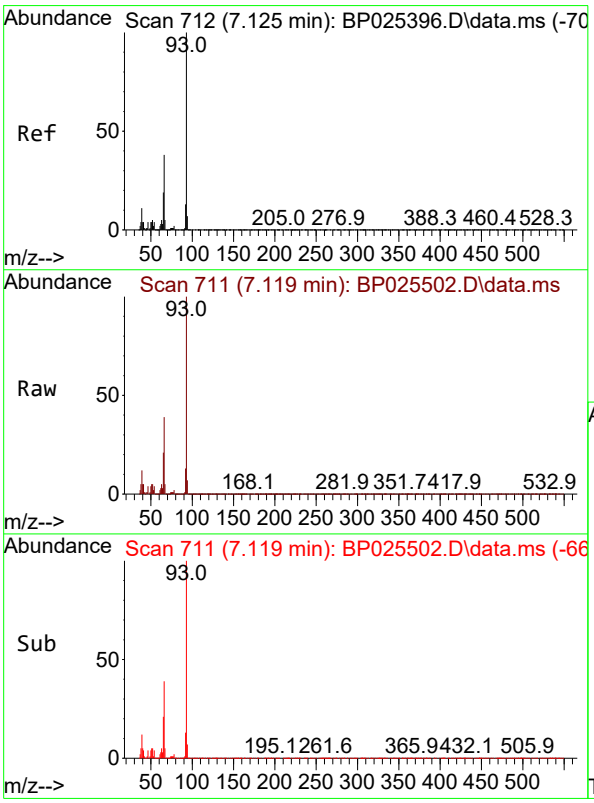
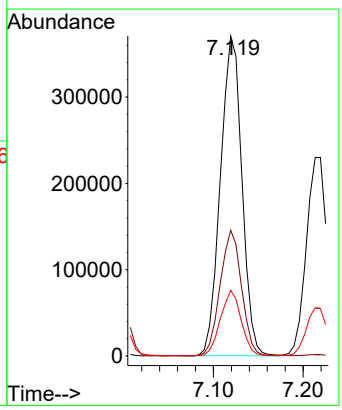
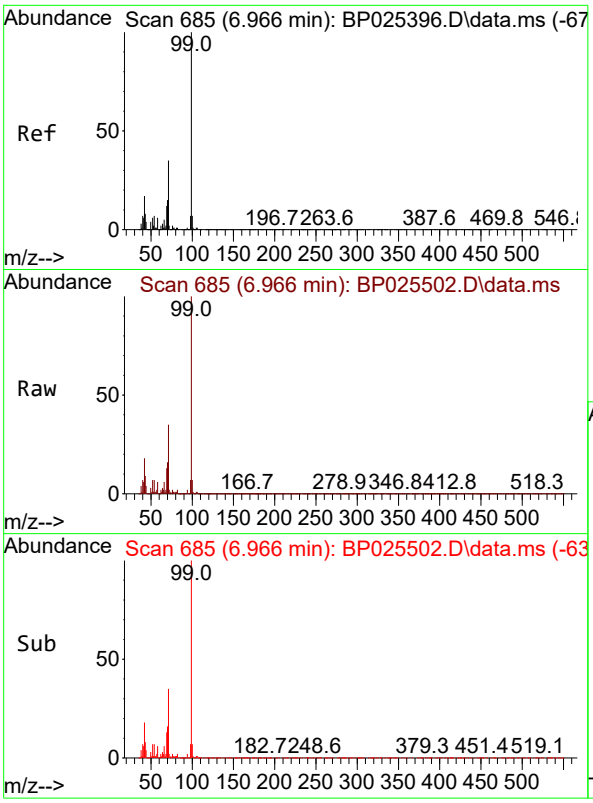


#6
Aniline
Concen: 40.190 ng
RT: 7.119 min Scan# 711
Delta R.T. -0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion: 93 Resp: 617192

Ion	Ratio	Lower	Upper
93	100		
66	39.3	30.4	45.6
65	20.5	15.3	22.9

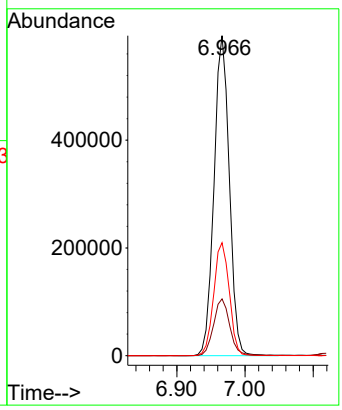




#7
Phenol-d6
Concen: 81.437 ng
RT: 6.966 min Scan# 6
Delta R.T. -0.000 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion: 99 Resp: 92820

Ion	Ratio	Lower	Upper
99	100		
42	17.8	13.7	20.5
71	35.3	28.2	42.4



Instrument :
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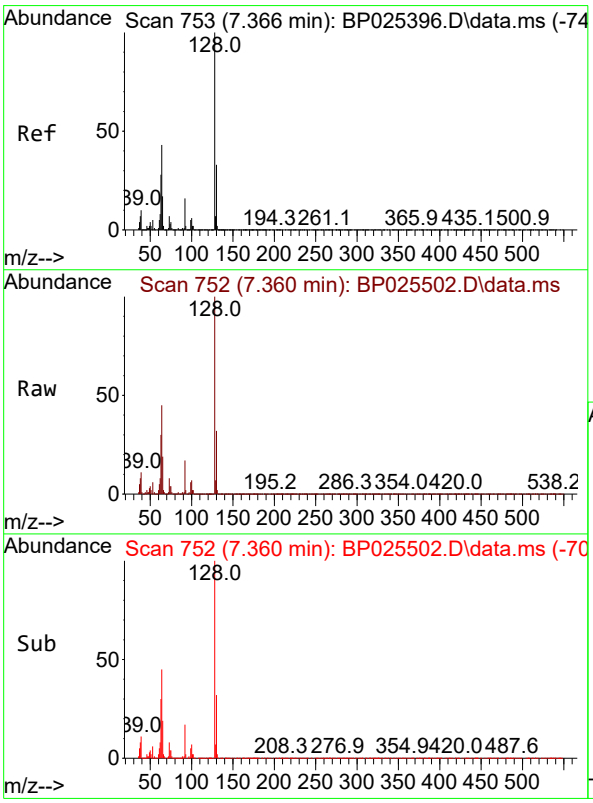
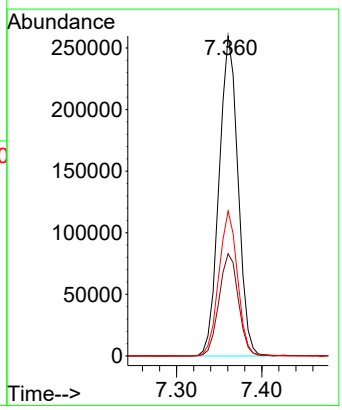
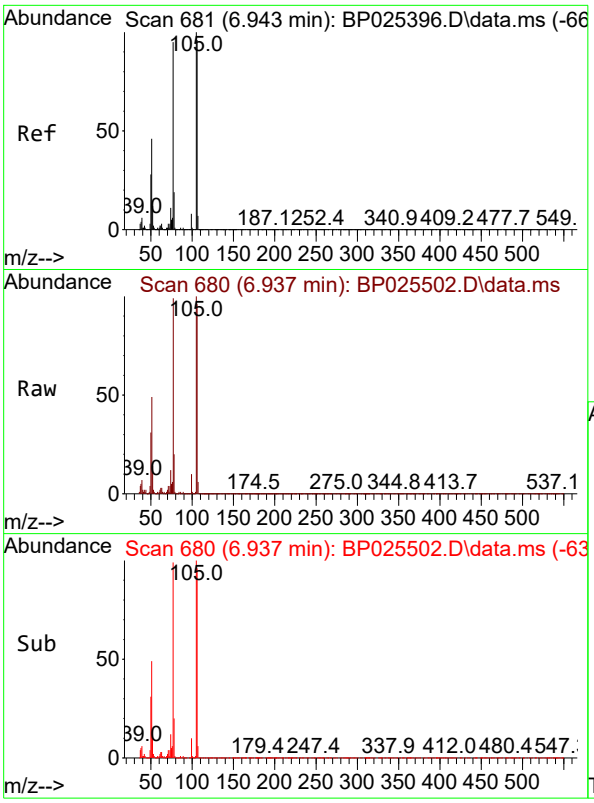


#8
2-Chlorophenol
Concen: 40.005 ng
RT: 7.360 min Scan# 752
Delta R.T. -0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:128 Resp: 401335

Ion	Ratio	Lower	Upper
128	100		
130	32.0	12.6	52.6
64	45.3	23.4	63.4

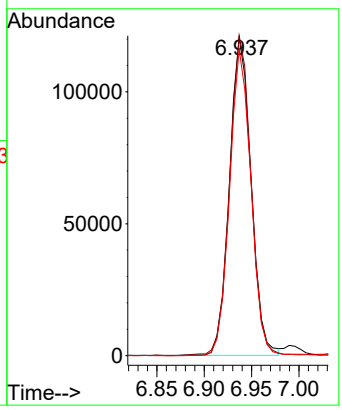




#9
Benzaldehyde
Concen: 23.826 ng
RT: 6.937 min Scan# 6
Delta R.T. -0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion: 77 Resp: 19026

Ion	Ratio	Lower	Upper
77	100		
105	100.6	84.8	124.8
106	96.4	80.5	120.5



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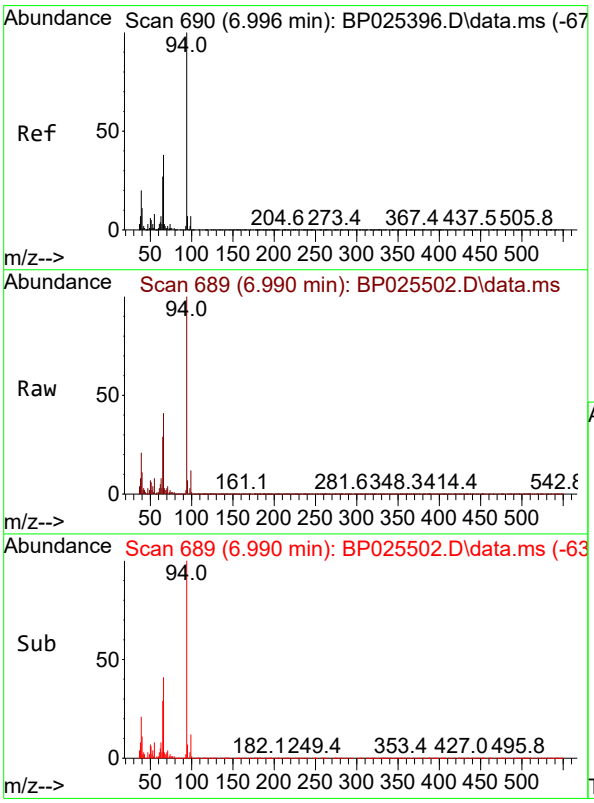
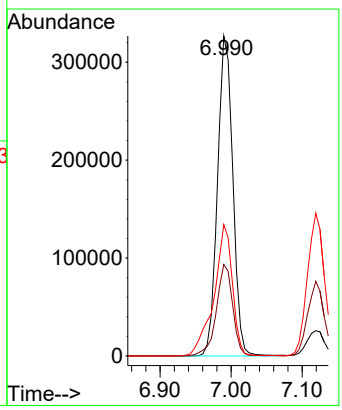
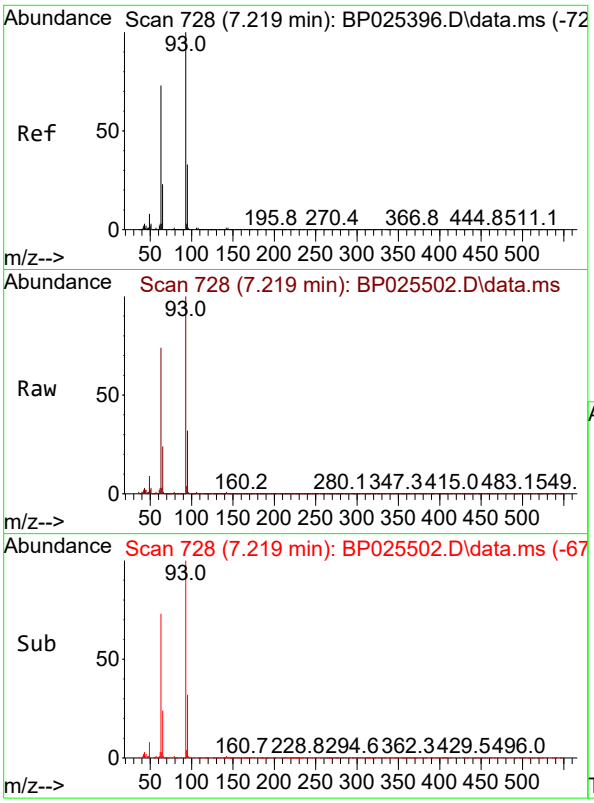


#10
Phenol
Concen: 40.802 ng
RT: 6.990 min Scan# 689
Delta R.T. -0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion: 94 Resp: 487981

Ion	Ratio	Lower	Upper
94	100		
65	28.6	6.8	46.8
66	41.1	18.2	58.2

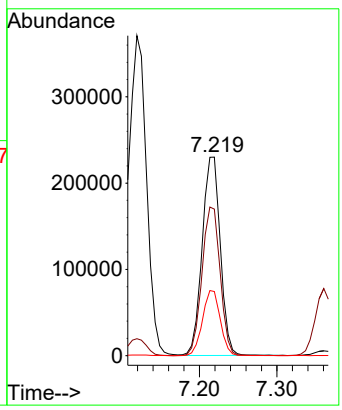




#11
bis(2-Chloroethyl)ether
Concen: 40.129 ng
RT: 7.219 min Scan# 7
Delta R.T. -0.000 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion: 93 Resp: 37407

Ion	Ratio	Lower	Upper
93	100		
63	73.8	52.6	92.6
95	32.3	12.7	52.7



Instrument :
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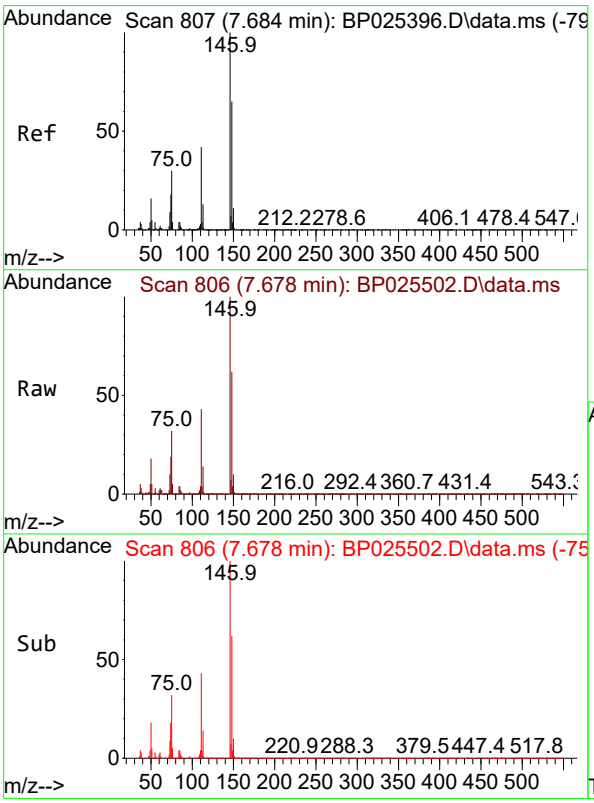
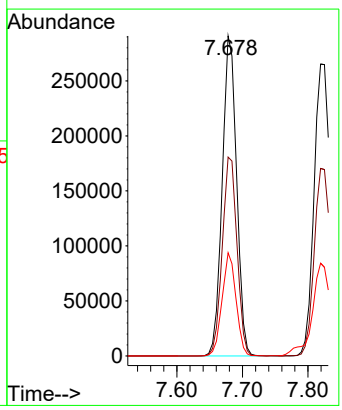
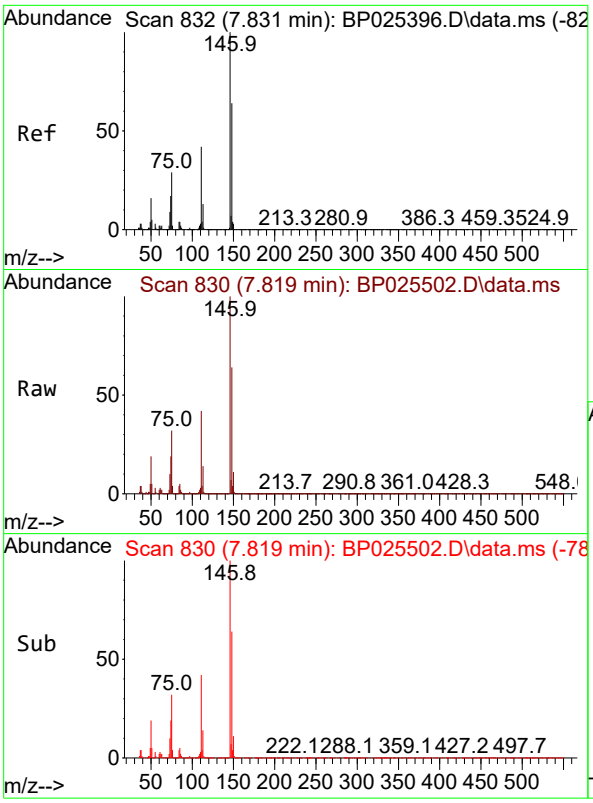


#12
1,3-Dichlorobenzene
Concen: 39.880 ng
RT: 7.678 min Scan# 806
Delta R.T. -0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:146 Resp: 441153

Ion	Ratio	Lower	Upper
146	100		
148	62.1	51.9	77.9
75	32.3	23.7	35.5

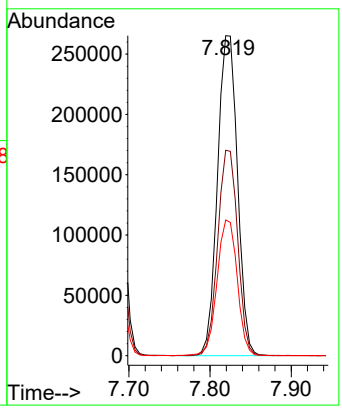




#13
1,4-Dichlorobenzene
Concen: 40.220 ng
RT: 7.819 min Scan# 8
Delta R.T. -0.012 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:146 Resp: 45474

Ion	Ratio	Lower	Upper
146	100		
148	64.2	51.6	77.4
111	42.4	33.4	50.0



Instrument :
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ClientSampleId :
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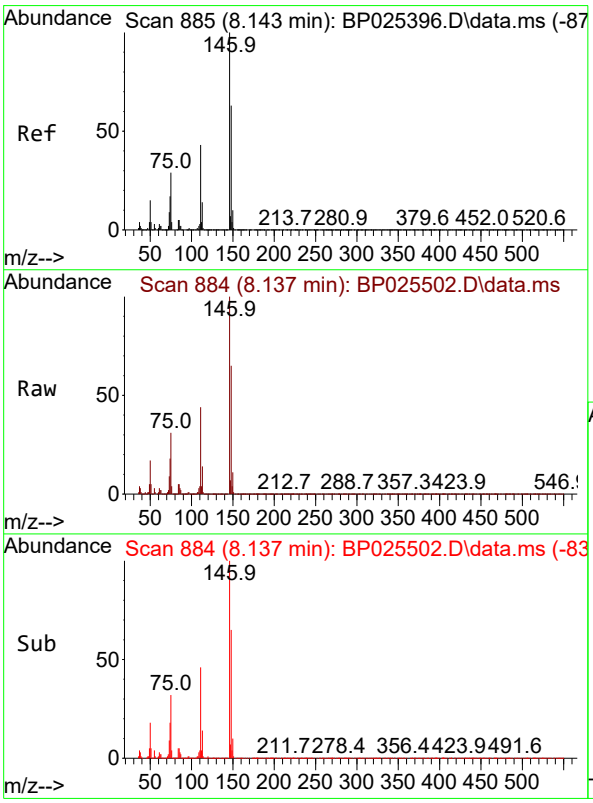
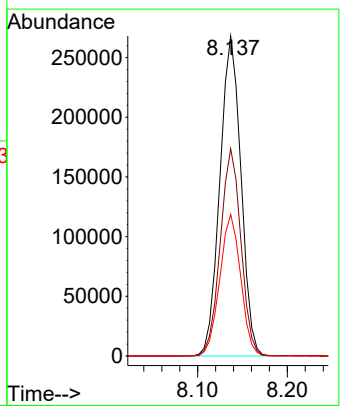
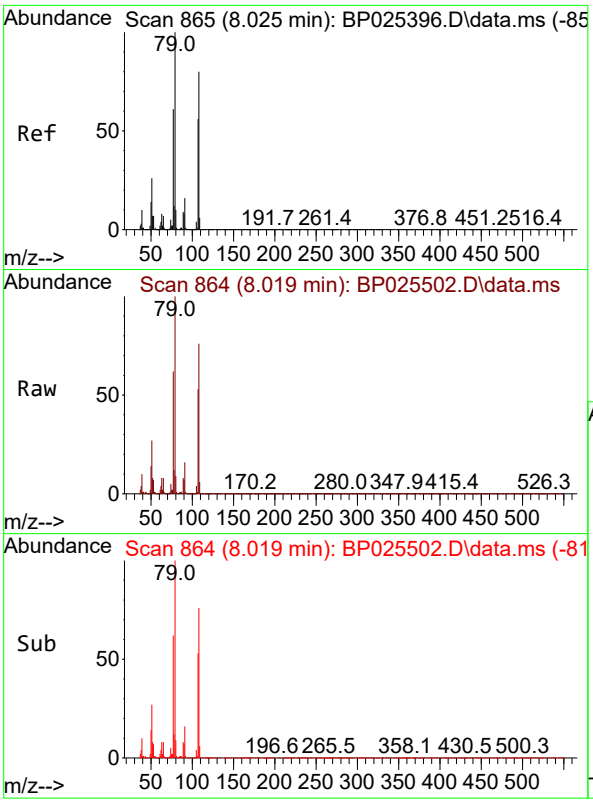


#14
1,2-Dichlorobenzene
Concen: 39.931 ng
RT: 8.137 min Scan# 884
Delta R.T. -0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:146 Resp: 437042

Ion	Ratio	Lower	Upper
146	100		
148	64.7	50.4	75.6
111	44.3	34.5	51.7

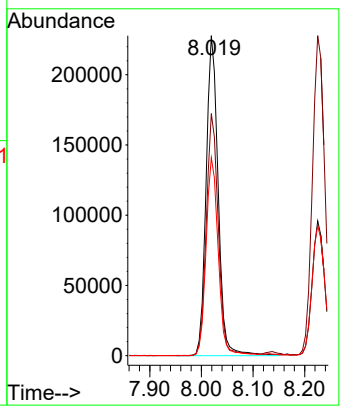




#15
Benzyl Alcohol
Concen: 40.652 ng
RT: 8.019 min Scan# 8
Delta R.T. -0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion: 79 Resp: 36815

Ion	Ratio	Lower	Upper
79	100		
108	75.7	63.8	95.6
77	61.9	49.0	73.4



Instrument :
BNA_P
ClientSampleId :
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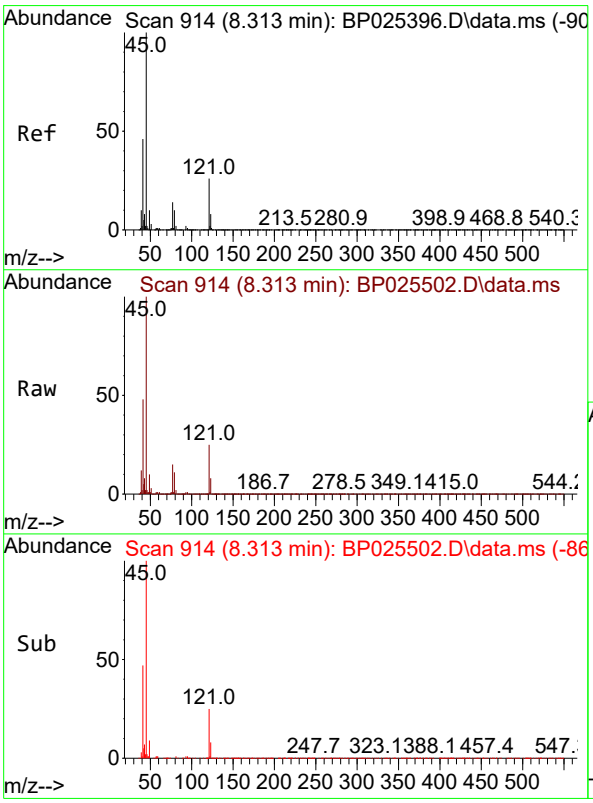
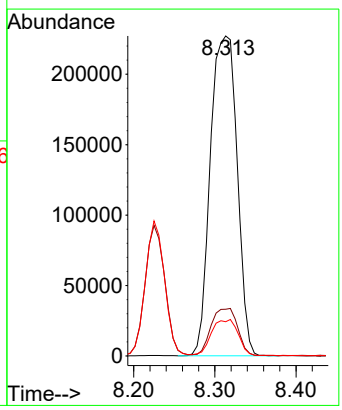
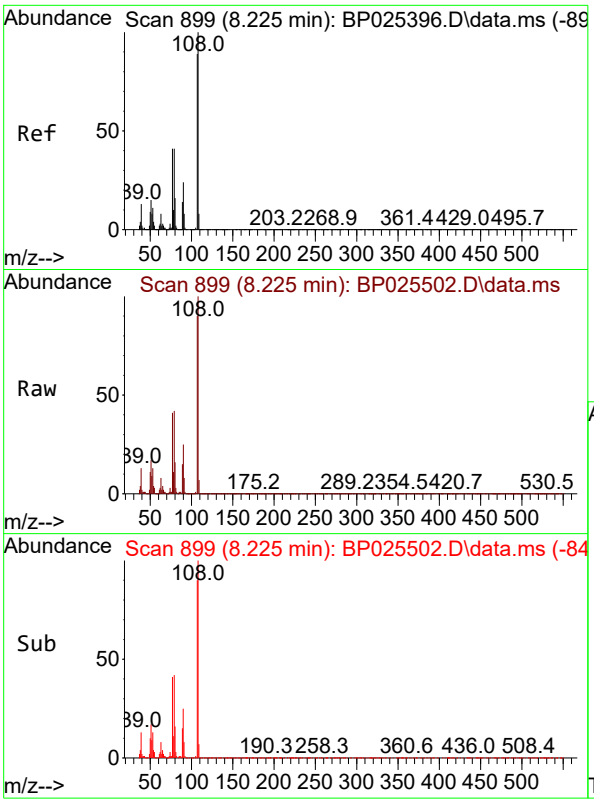


#16
2,2'-oxybis(1-Chloropropane)
Concen: 41.700 ng
RT: 8.313 min Scan# 914
Delta R.T. -0.000 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion: 45 Resp: 520729

Ion	Ratio	Lower	Upper
45	100		
77	14.6	0.0	35.3
79	10.7	0.0	31.8

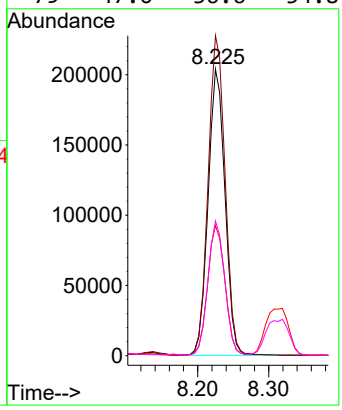




#17
2-Methylphenol
Concen: 40.522 ng
RT: 8.225 min Scan# 8
Delta R.T. -0.000 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:107 Resp: 33658

Ion	Ratio	Lower	Upper
107	100		
108	111.7	89.4	134.0
77	45.4	36.3	54.5
79	47.0	36.6	54.8



Instrument :
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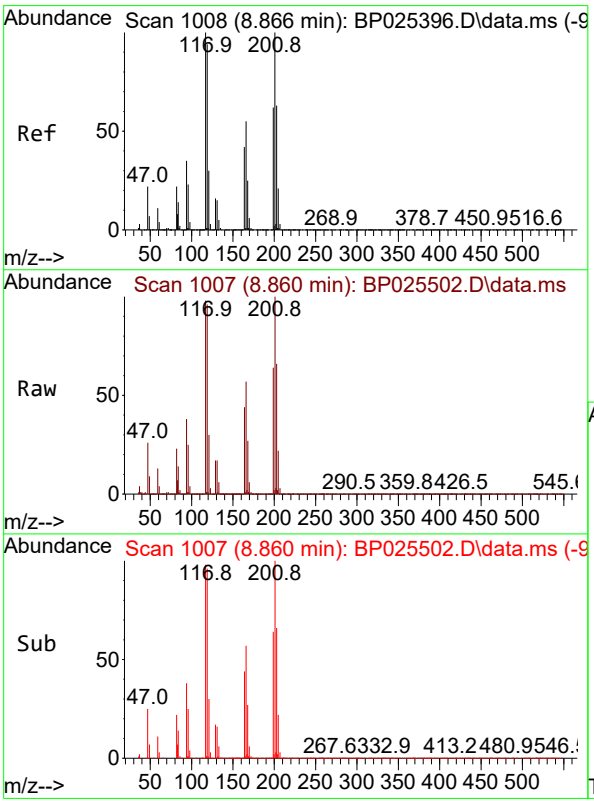
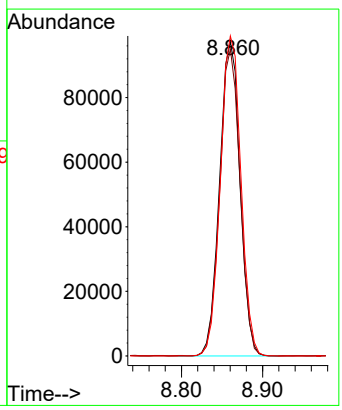
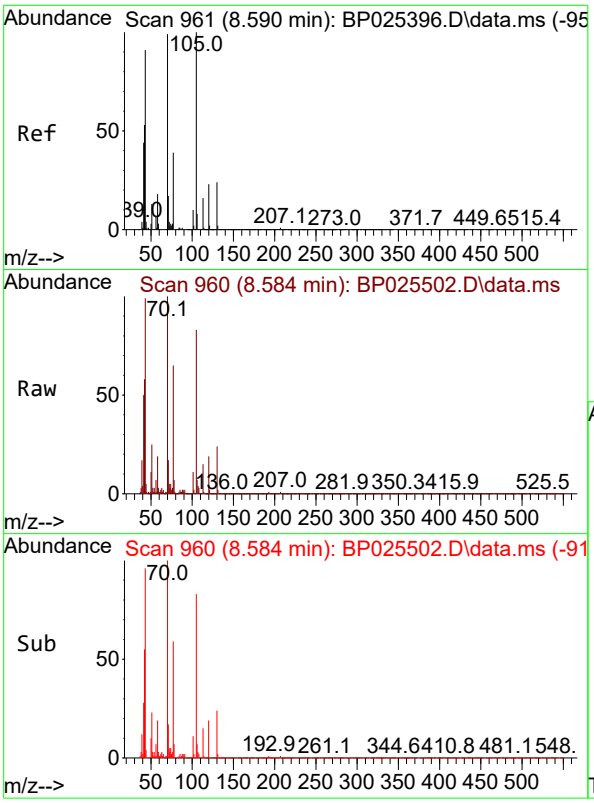


#18
Hexachloroethane
Concen: 41.003 ng
RT: 8.860 min Scan# 1007
Delta R.T. -0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:117 Resp: 170458

Ion	Ratio	Lower	Upper
117	100		
119	97.7	75.1	112.7
201	101.9	80.1	120.1

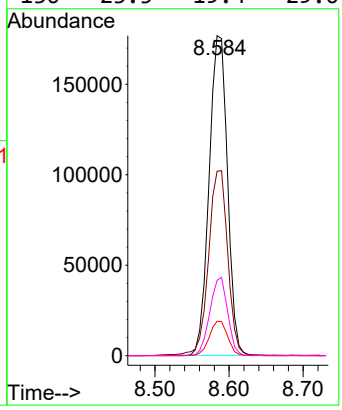




#19
n-Nitroso-di-n-propylamine
Concen: 40.216 ng
RT: 8.584 min Scan# 9
Delta R.T. -0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion: 70 Resp: 30362

Ion	Ratio	Lower	Upper
70	100		
42	57.6	43.8	65.6
101	10.7	8.5	12.7
130	23.5	19.4	29.0



Instrument :
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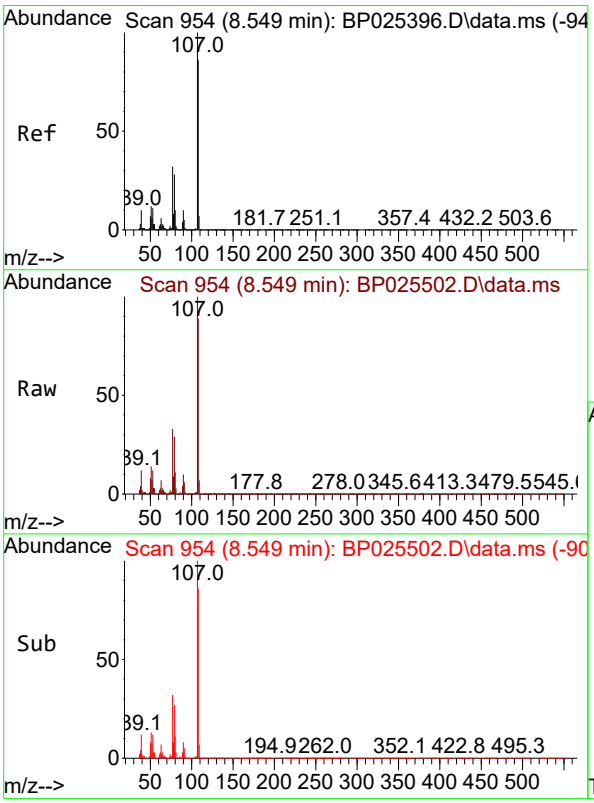
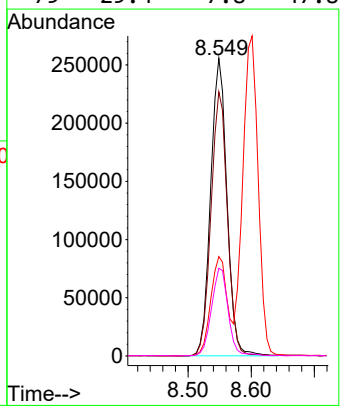
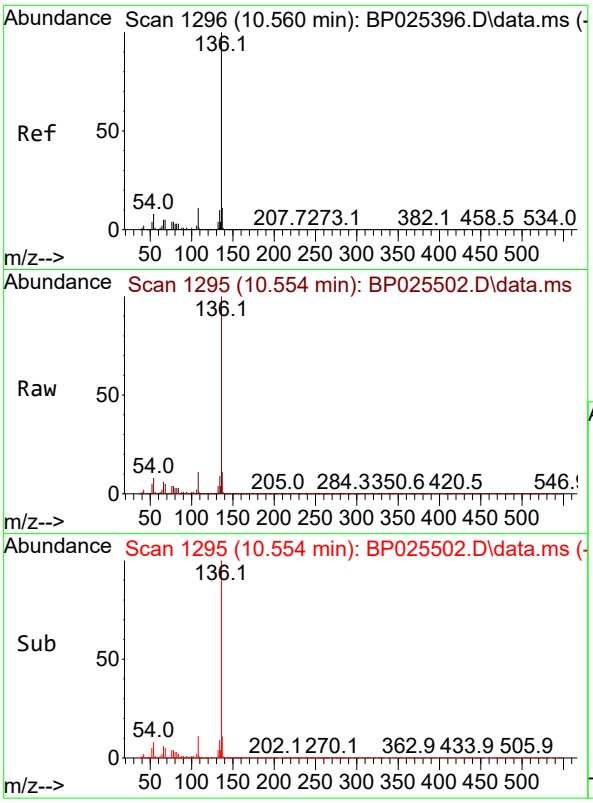


#20
3+4-Methylphenols
Concen: 39.780 ng
RT: 8.549 min Scan# 954
Delta R.T. -0.000 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:107 Resp: 458019

Ion	Ratio	Lower	Upper
107	100		
108	88.7	66.3	106.3
77	33.3	12.3	52.3
79	29.4	7.8	47.8

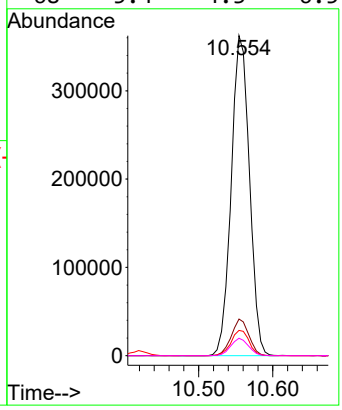




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.554 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:136 Resp: 617928

Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.2	13.8
54	7.9	6.0	9.0
68	5.4	4.3	6.5



Instrument :
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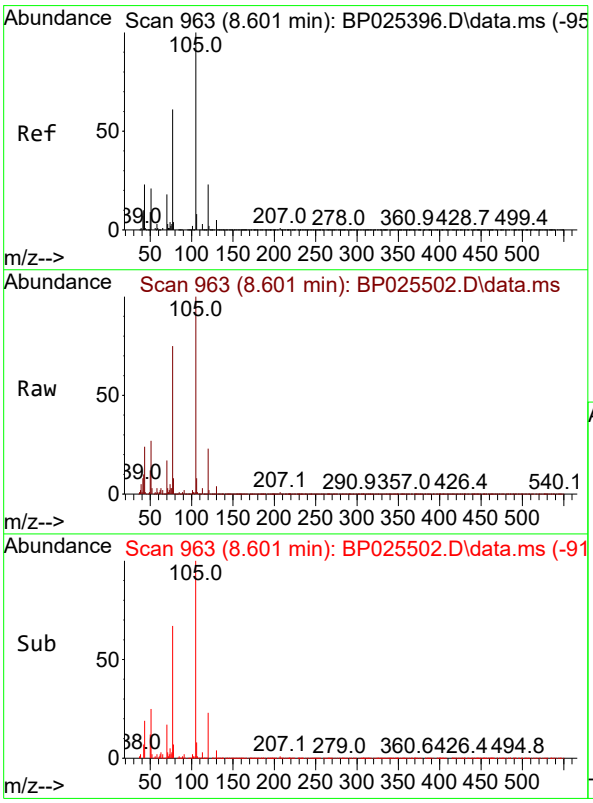
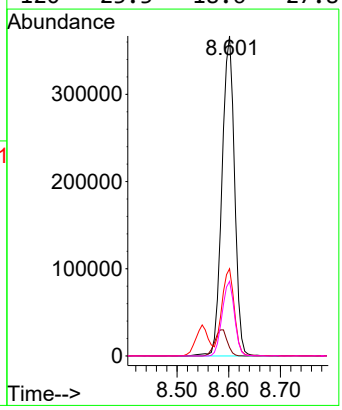
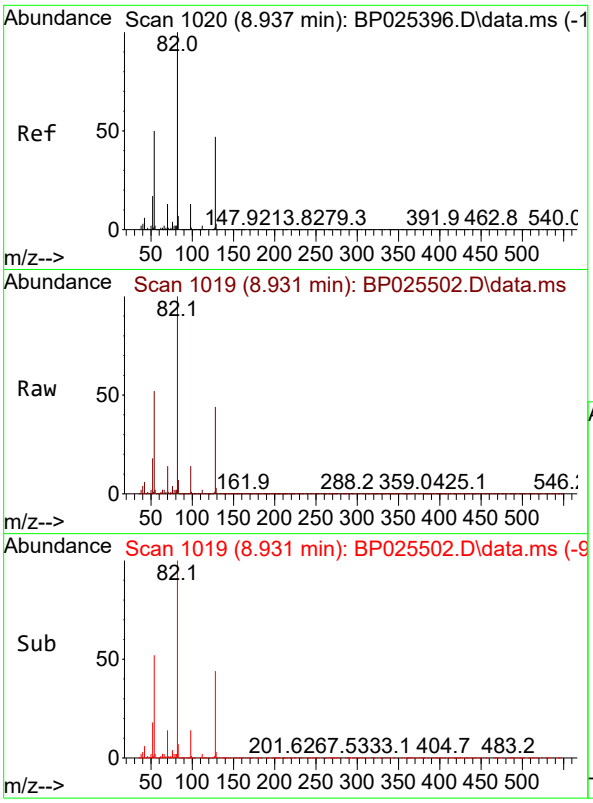


#22
Acetophenone
Concen: 39.991 ng
RT: 8.601 min Scan# 963
Delta R.T. -0.000 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:105 Resp: 619709

Ion	Ratio	Lower	Upper
105	100		
71	2.7	2.6	4.0
51	27.2	20.6	30.8
120	23.3	18.6	27.8

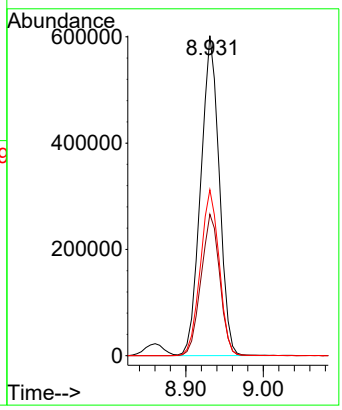




#23
Nitrobenzene-d5
Concen: 81.592 ng
RT: 8.931 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion: 82 Resp: 99668

Ion	Ratio	Lower	Upper
82	100		
128	44.2	37.7	56.5
54	51.9	39.8	59.6



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Manual Integrations
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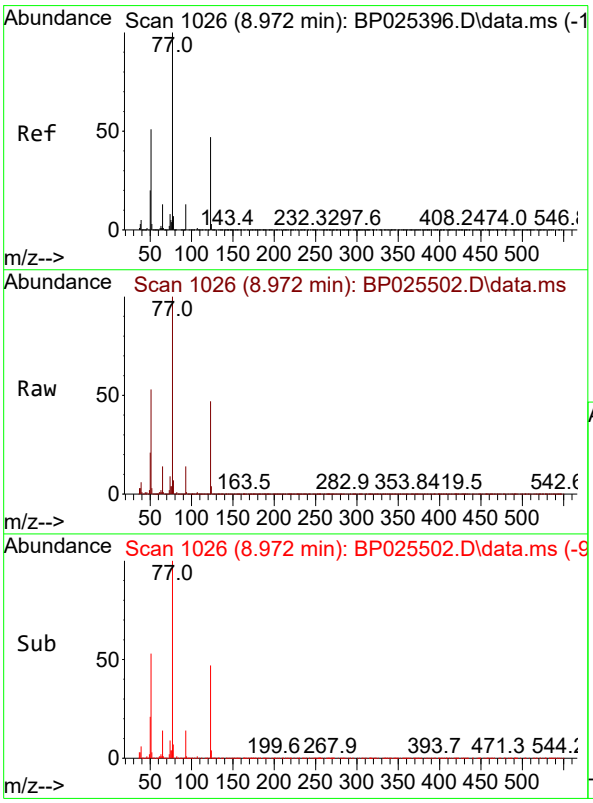
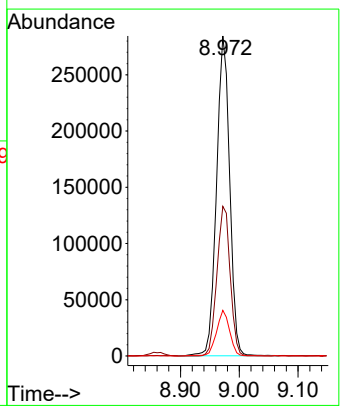
Reviewed By :Rahul Chavli 08/20/2025
Supervised By :Jagrut Upadhyay 08/21/2025

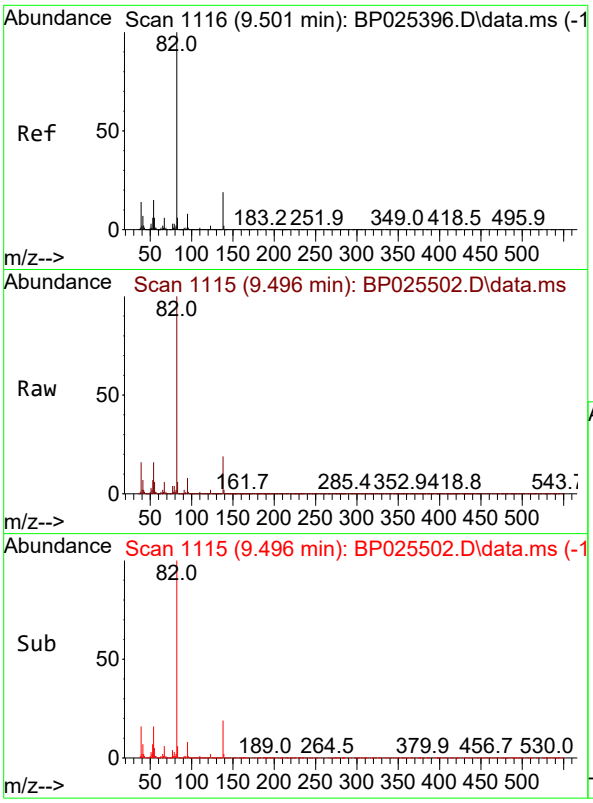


#24
Nitrobenzene
Concen: 40.309 ng
RT: 8.972 min Scan# 1026
Delta R.T. -0.000 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion: 77 Resp: 440063

Ion	Ratio	Lower	Upper
77	100		
123	46.8	38.6	58.0
65	14.2	10.6	15.8

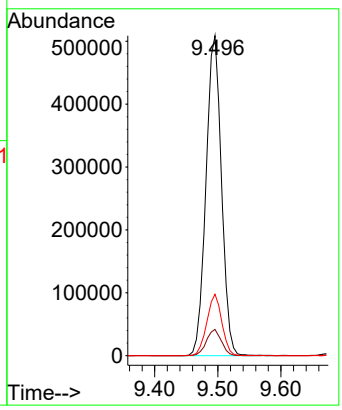




#25
Isophorone
Concen: 40.003 ng
RT: 9.496 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion: 82 Resp: 8647

Ion	Ratio	Lower	Upper
82	100		
95	8.2	6.4	9.6
138	19.2	15.4	23.0



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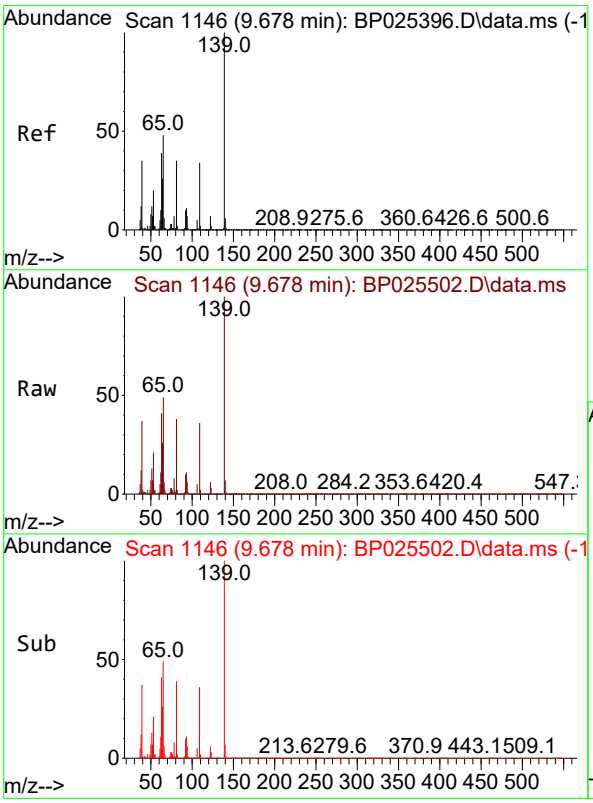
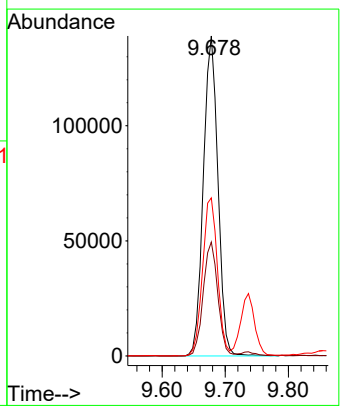
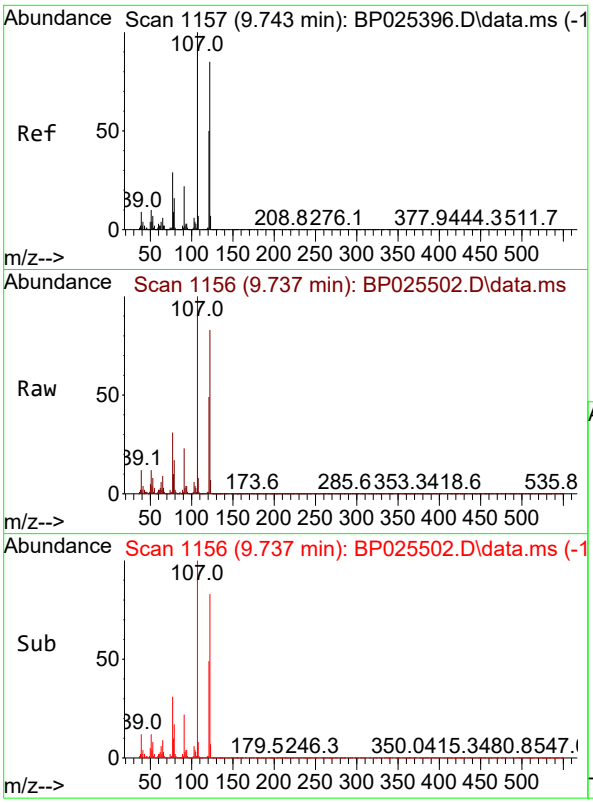


#26
2-Nitrophenol
Concen: 39.808 ng
RT: 9.678 min Scan# 1146
Delta R.T. -0.000 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:139 Resp: 223032

Ion	Ratio	Lower	Upper
139	100		
109	35.6	26.9	40.3
65	49.4	38.3	57.5





#27
2,4-Dimethylphenol
Concen: 39.968 ng
RT: 9.737 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:122 Resp: 38510

Ion	Ratio	Lower	Upper
122	100		
107	120.5	93.7	140.5
121	59.5	46.6	69.8

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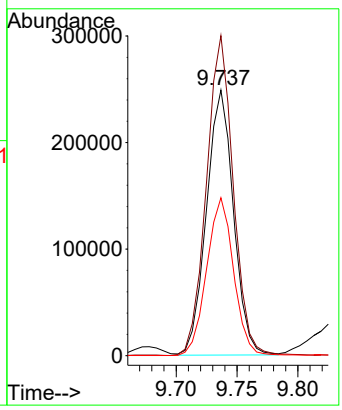
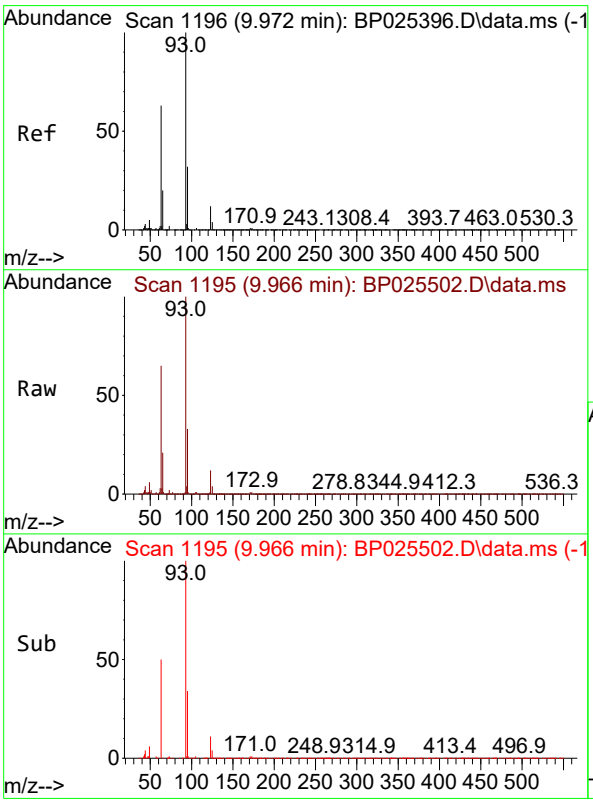
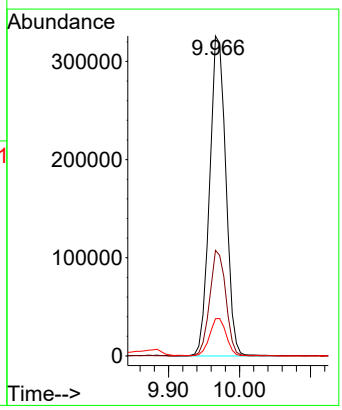


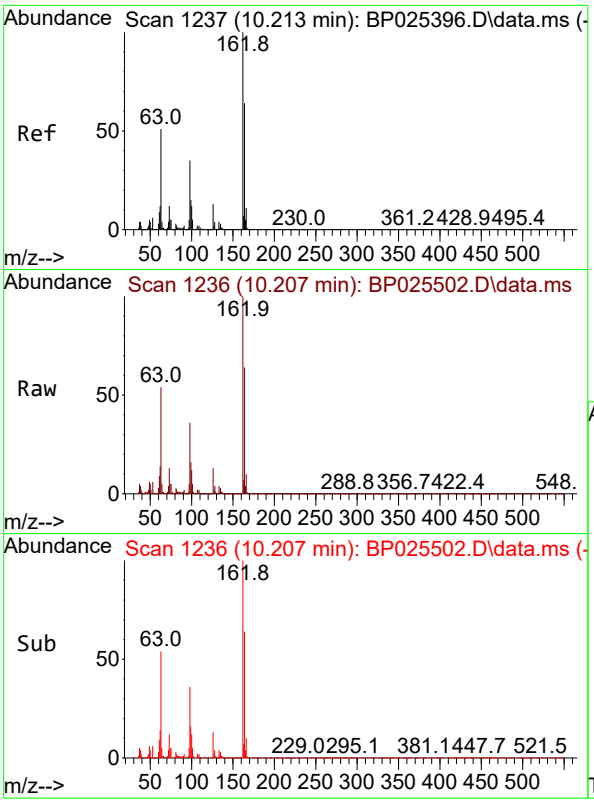


#28
bis(2-Chloroethoxy)methane
Concen: 39.468 ng
RT: 9.966 min Scan# 1195
Delta R.T. -0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion: 93 Resp: 515756

Ion	Ratio	Lower	Upper
93	100		
95	33.0	25.4	38.0
123	11.7	9.4	14.0

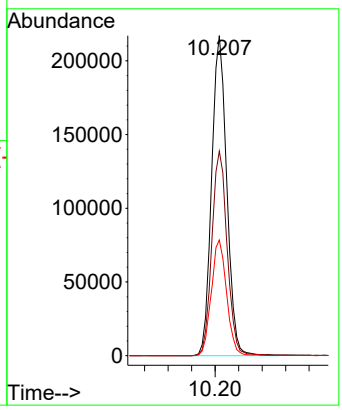




#29
2,4-Dichlorophenol
Concen: 40.533 ng
RT: 10.207 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:162 Resp: 38795

Ion	Ratio	Lower	Upper
162	100		
164	63.9	44.4	84.4
98	36.2	14.9	54.9



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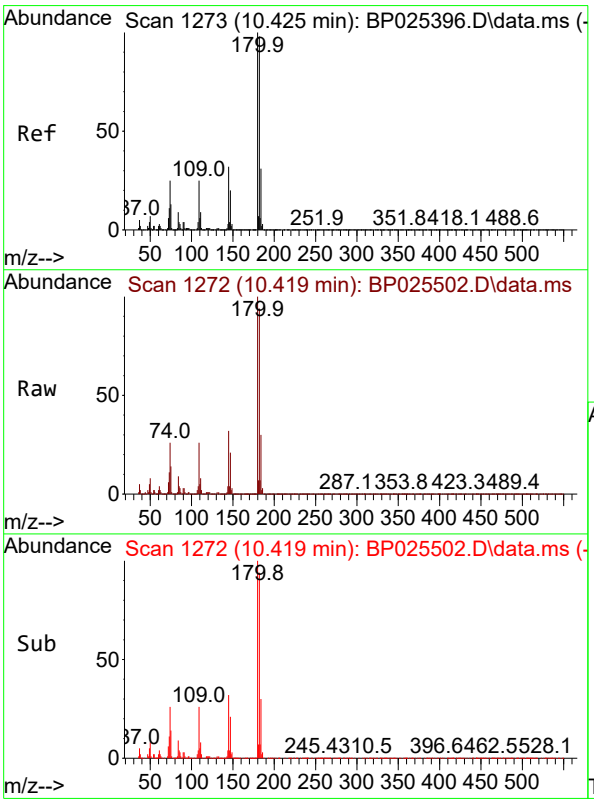
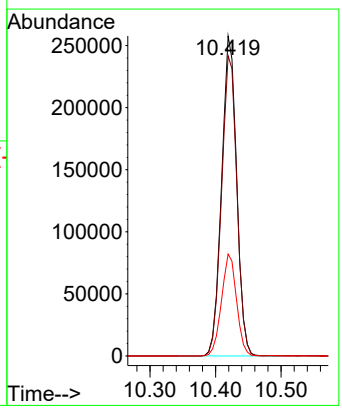
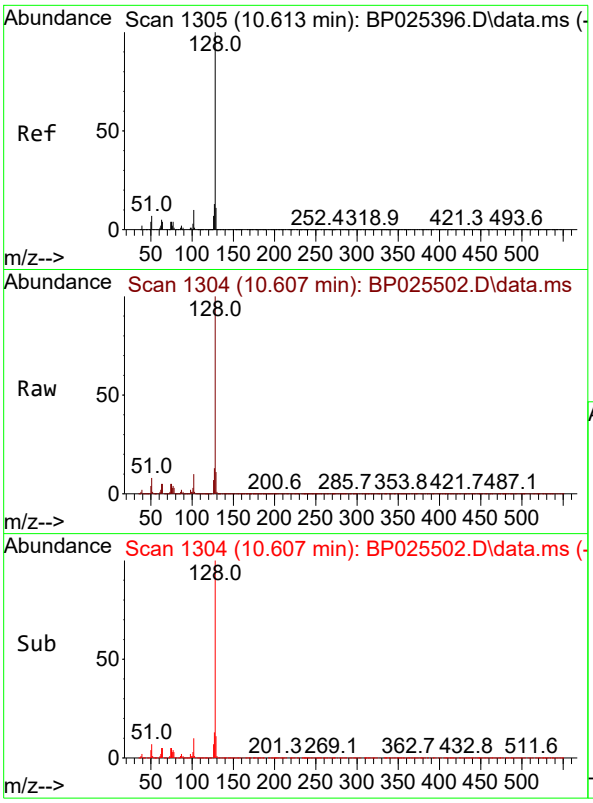


#30
1,2,4-Trichlorobenzene
Concen: 38.887 ng
RT: 10.419 min Scan# 1272
Delta R.T. -0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:180 Resp: 408012

Ion	Ratio	Lower	Upper
180	100		
182	93.8	78.0	117.0
145	31.8	25.9	38.9

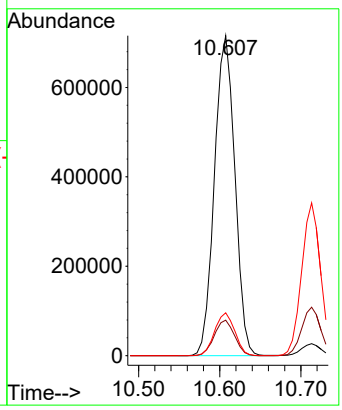




#31
Naphthalene
Concen: 38.998 ng
RT: 10.607 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:128 Resp: 125250

Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.6	13.0
127	13.4	10.7	16.1



Instrument :
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ClientSampleId :
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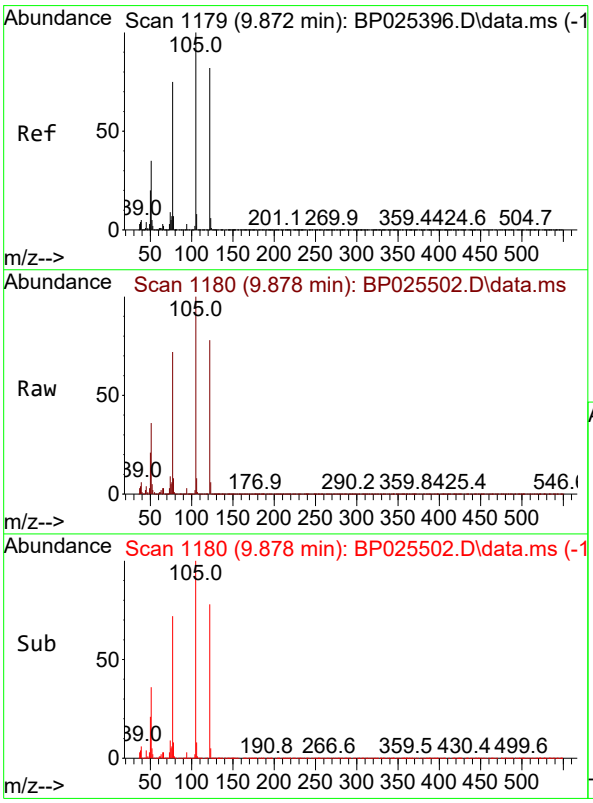
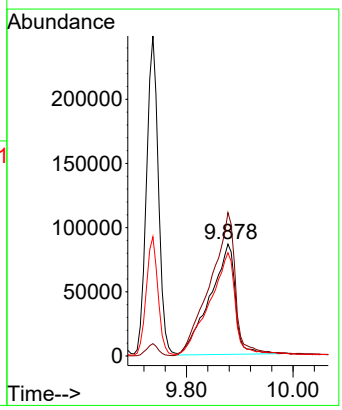
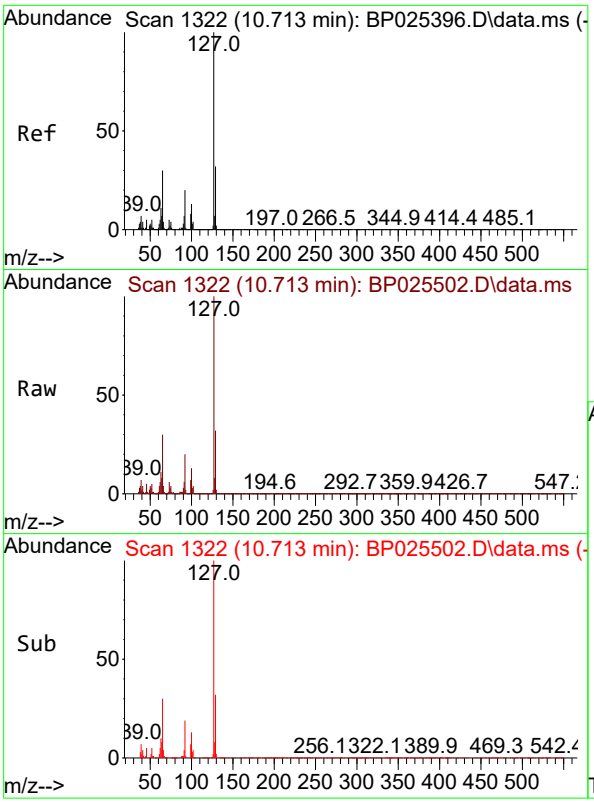


#32
Benzoic acid
Concen: 39.948 ng
RT: 9.878 min Scan# 1180
Delta R.T. 0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:122 Resp: 284166

Ion	Ratio	Lower	Upper
122	100		
105	128.1	100.6	140.6
77	92.2	71.5	111.5

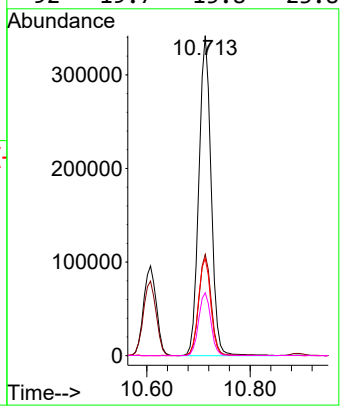




#33
4-Chloroaniline
Concen: 39.605 ng
RT: 10.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:127 Resp: 56187

Ion	Ratio	Lower	Upper
127	100		
129	31.7	25.4	38.2
65	30.3	23.8	35.6
92	19.7	15.8	23.8



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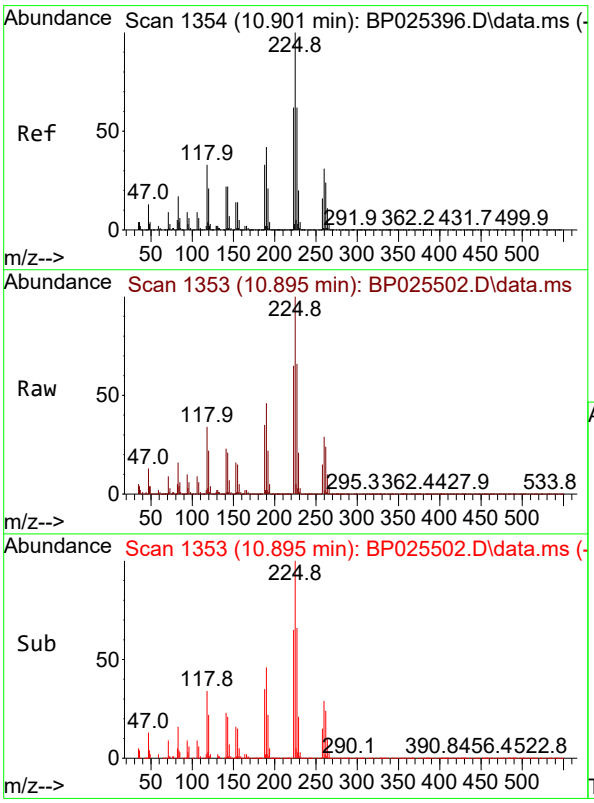
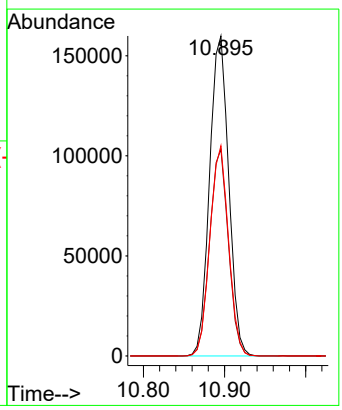
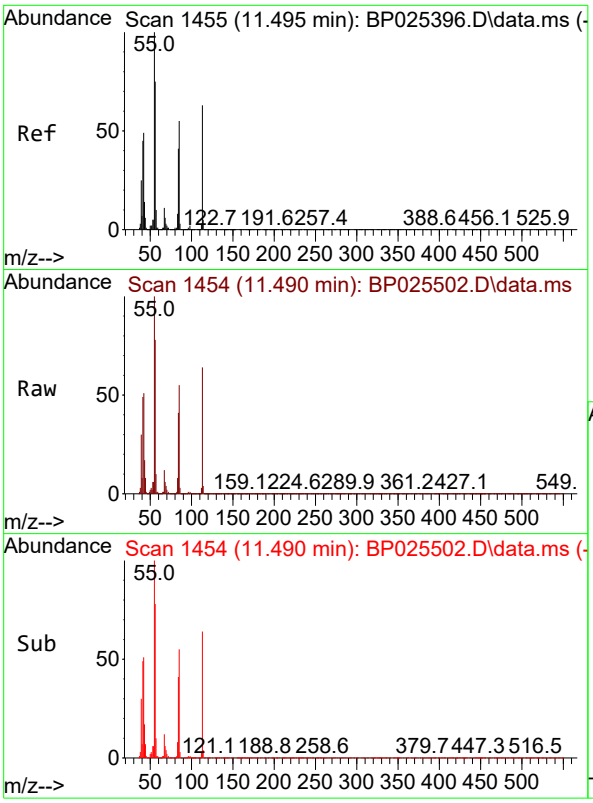


#34
Hexachlorobutadiene
Concen: 39.951 ng
RT: 10.895 min Scan# 1353
Delta R.T. -0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:225 Resp: 261058

Ion	Ratio	Lower	Upper
225	100		
223	64.6	50.0	75.0
227	65.7	49.7	74.5





#35
Caprolactam
Concen: 38.776 ng
RT: 11.490 min Scan# 14
Delta R.T. -0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:113 Resp: 13609

Ion	Ratio	Lower	Upper
113	100		
55	156.6	140.0	180.0
56	122.4	100.0	140.0

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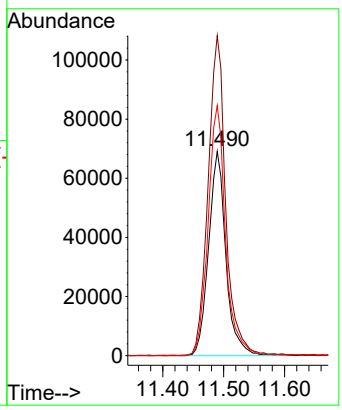
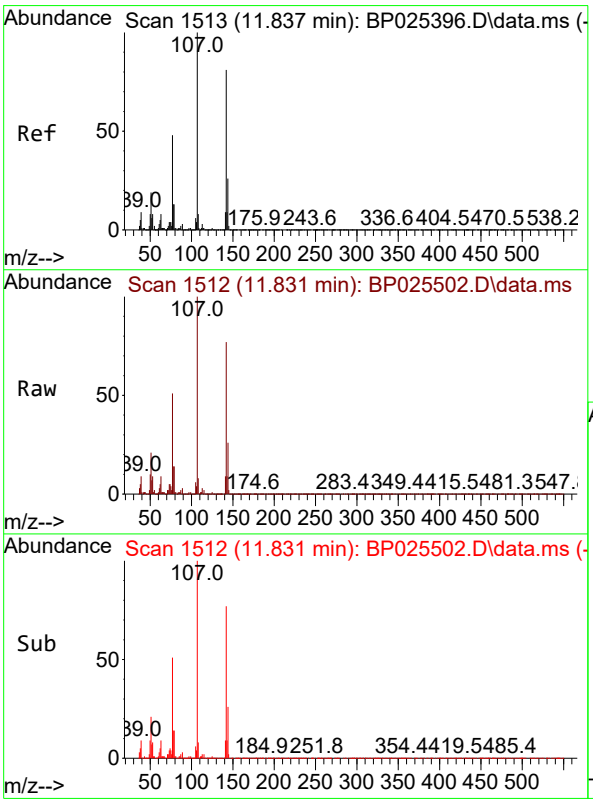
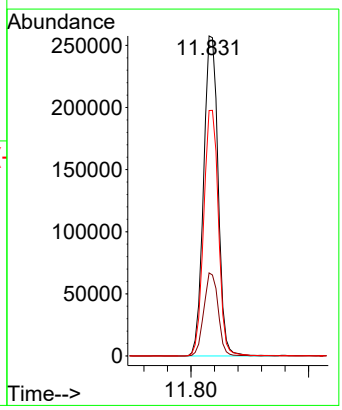


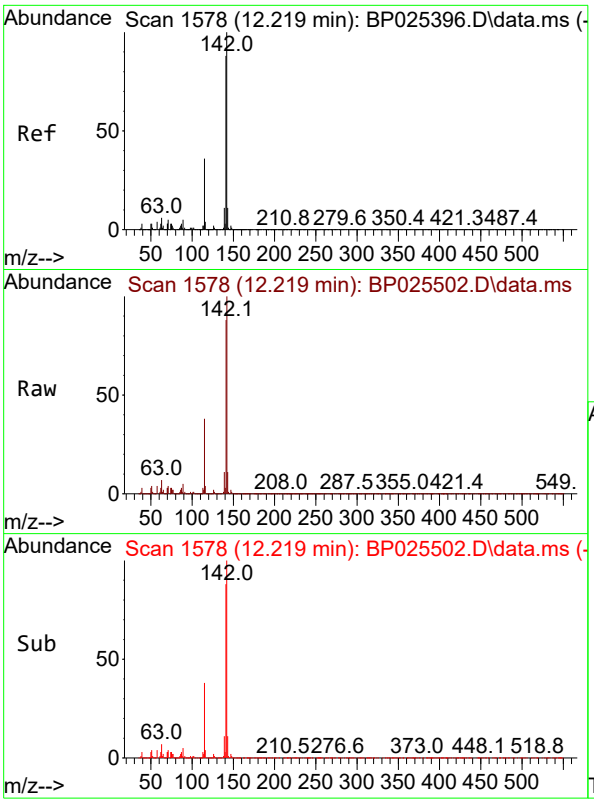


#36
4-Chloro-3-methylphenol
Concen: 40.195 ng
RT: 11.831 min Scan# 1512
Delta R.T. -0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:107 Resp: 441463

Ion	Ratio	Lower	Upper
107	100		
144	26.0	21.0	31.4
142	76.7	64.6	97.0

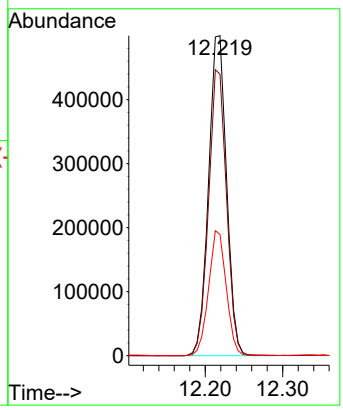




#37
2-Methylnaphthalene
Concen: 38.714 ng
RT: 12.219 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:142 Resp: 80915

Ion	Ratio	Lower	Upper
142	100		
141	88.0	70.3	105.5
115	37.9	28.9	43.3



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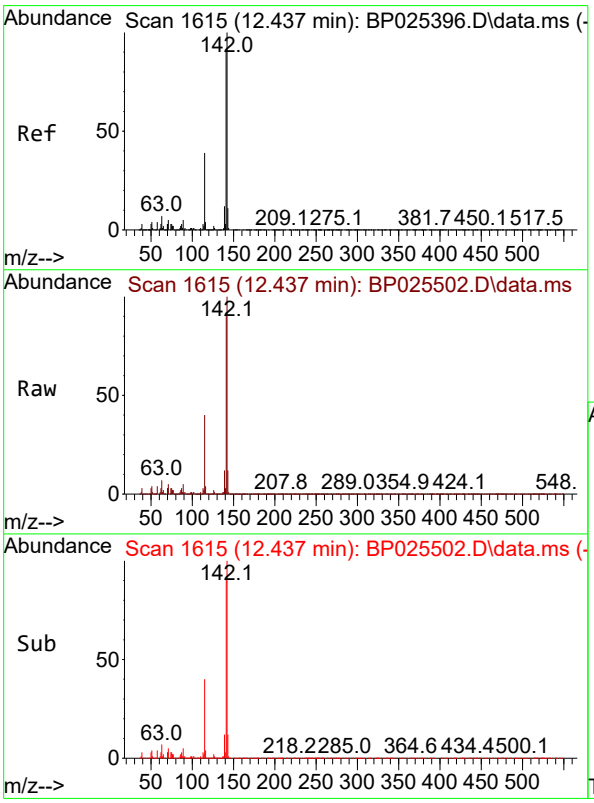
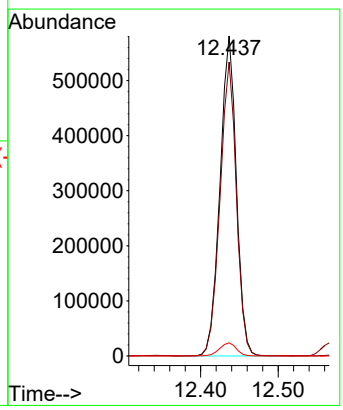
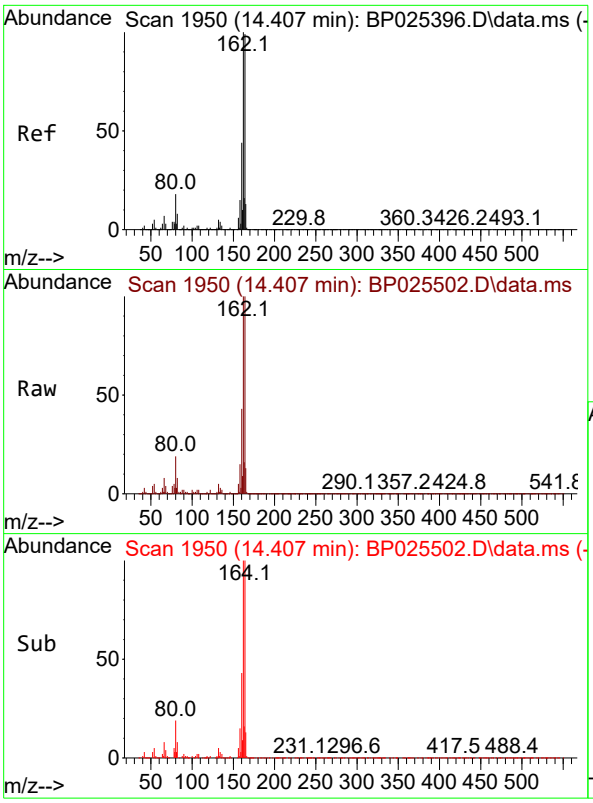


#38
1-Methylnaphthalene
Concen: 38.296 ng
RT: 12.437 min Scan# 1615
Delta R.T. -0.000 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:142 Resp: 851212

Ion	Ratio	Lower	Upper
142	100		
141	91.8	73.1	109.7
116	4.1	3.2	4.8

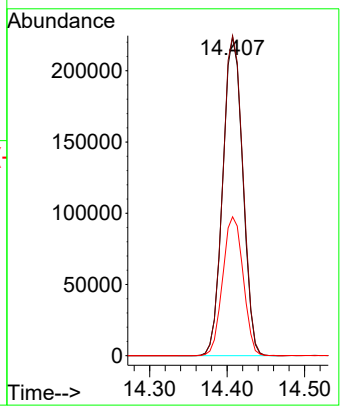




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.407 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:164 Resp: 40033

Ion	Ratio	Lower	Upper
164	100		
162	100.4	81.0	121.6
160	43.6	35.4	53.2



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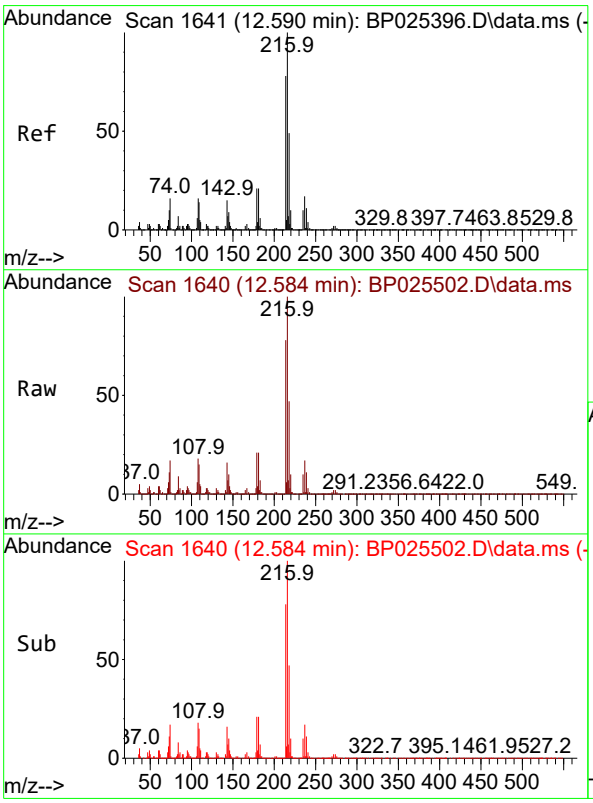
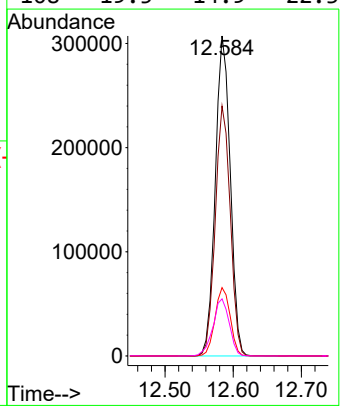
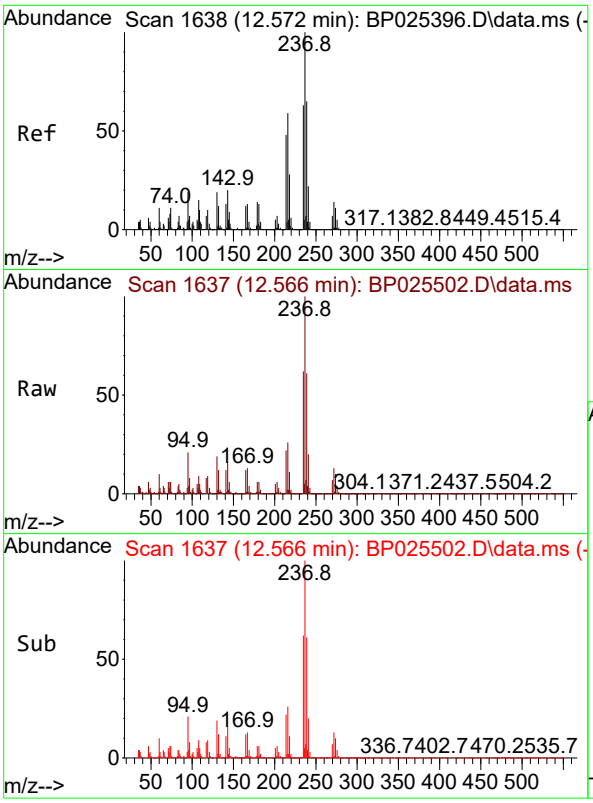


#40
1,2,4,5-Tetrachlorobenzene
Concen: 40.579 ng
RT: 12.584 min Scan# 1640
Delta R.T. -0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:216 Resp: 469176

Ion	Ratio	Lower	Upper
216	100		
214	78.4	63.0	94.4
179	21.7	17.1	25.7
108	19.5	14.9	22.3





#41
Hexachlorocyclopentadiene
Concen: 41.746 ng
RT: 12.566 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:237 Resp: 29155

Ion	Ratio	Lower	Upper
237	100		
235	62.2	42.7	82.7
272	12.6	0.0	34.0

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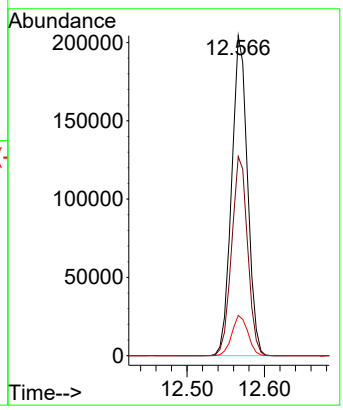
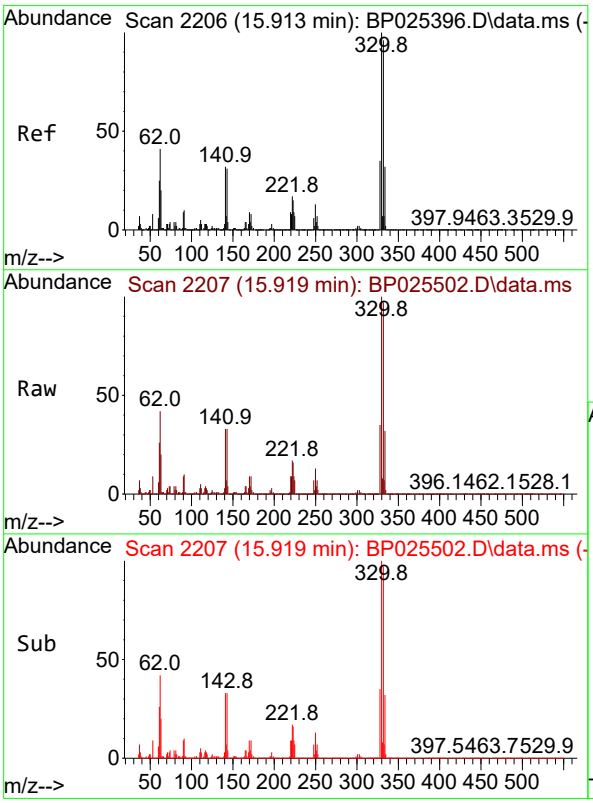
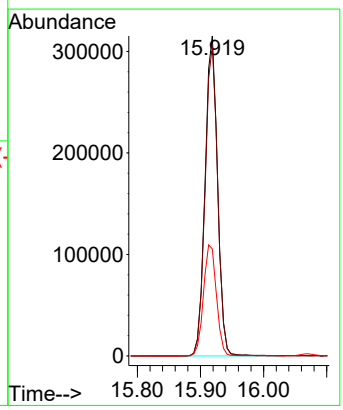


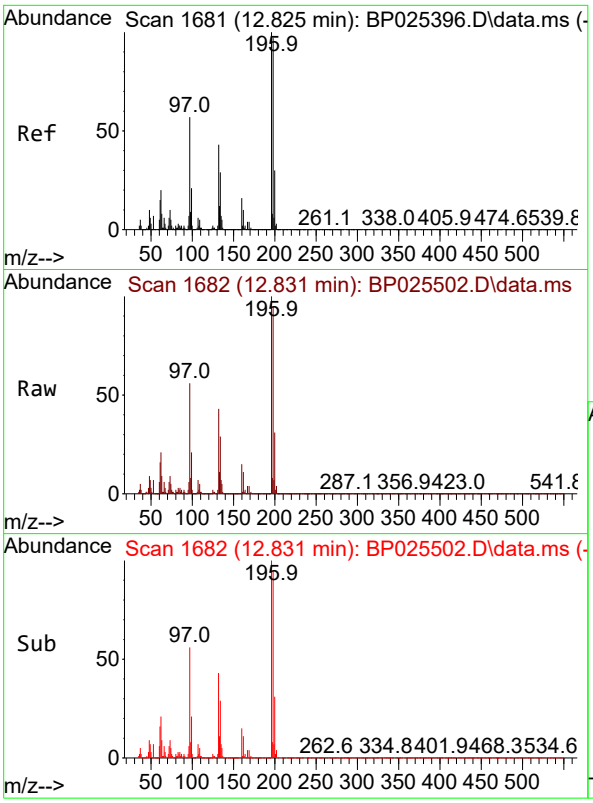


#42
2,4,6-Tribromophenol
Concen: 80.580 ng
RT: 15.919 min Scan# 2207
Delta R.T. 0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:330 Resp: 434204

Ion	Ratio	Lower	Upper
330	100		
332	97.2	77.3	115.9
141	36.0	26.6	39.8





#43
2,4,6-Trichlorophenol
Concen: 40.907 ng
RT: 12.831 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:196 Resp: 31930

Ion	Ratio	Lower	Upper
196	100		
198	94.6	77.2	115.8
200	30.6	23.9	35.9

Instrument :
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ClientSampleId :
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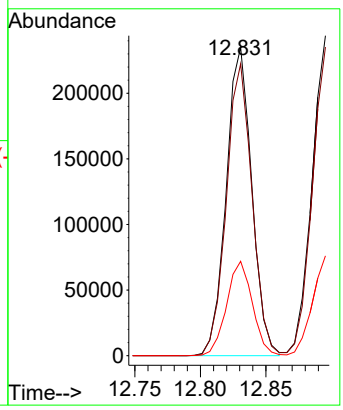
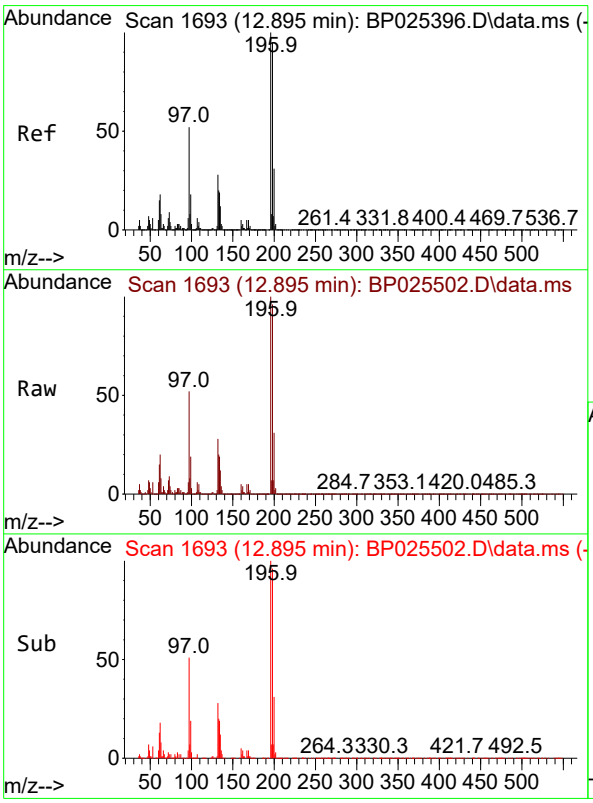
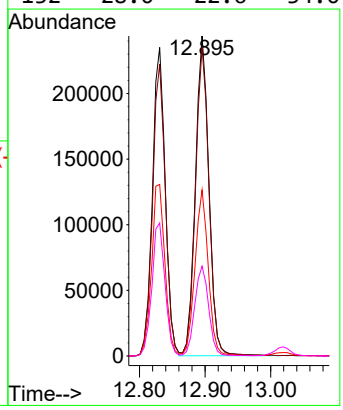


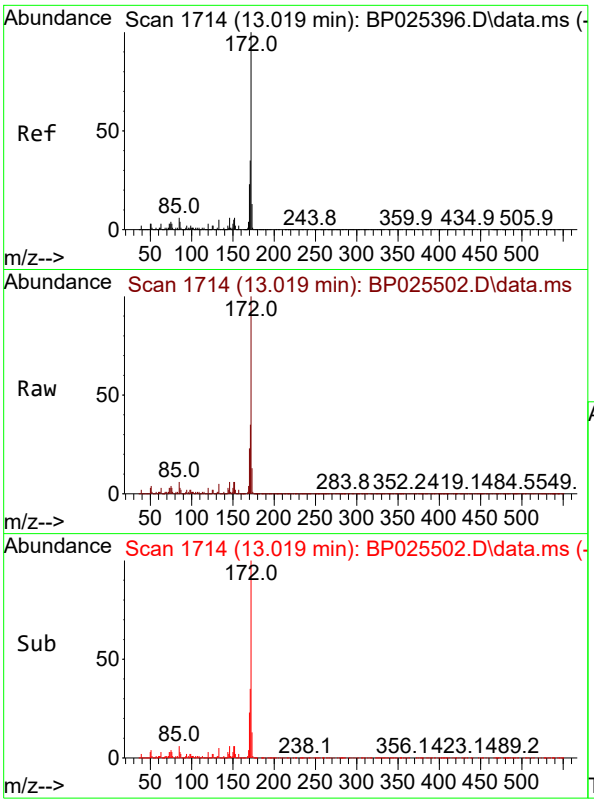


#44
2,4,5-Trichlorophenol
Concen: 41.026 ng
RT: 12.895 min Scan# 1693
Delta R.T. -0.000 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:196 Resp: 350964

Ion	Ratio	Lower	Upper
196	100		
198	96.4	76.2	114.2
97	51.9	41.2	61.8
132	28.0	22.6	34.0

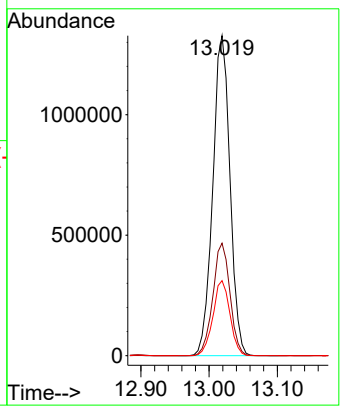




#45
2-Fluorobiphenyl
Concen: 79.531 ng
RT: 13.019 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:172 Resp: 232962

Ion	Ratio	Lower	Upper
172	100		
171	35.1	28.1	42.1
170	23.5	18.6	28.0



Instrument :
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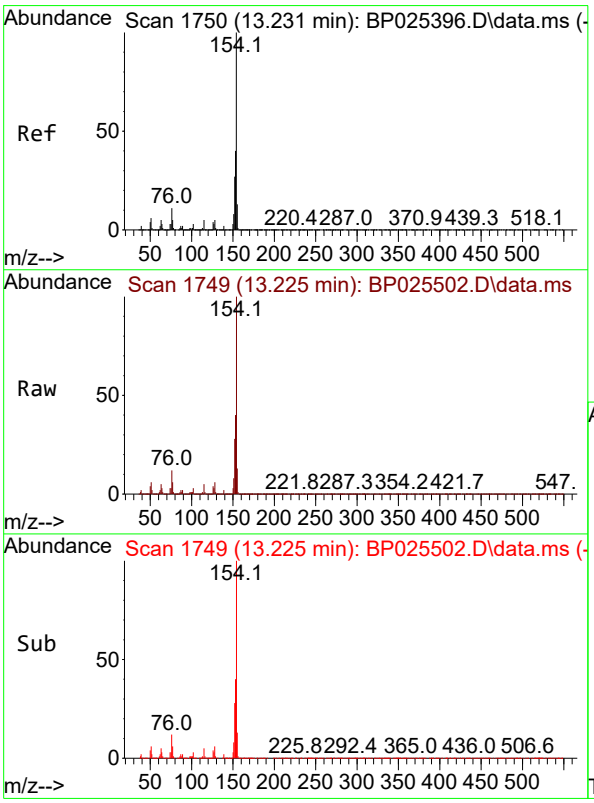
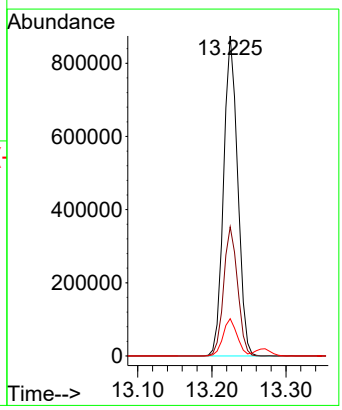
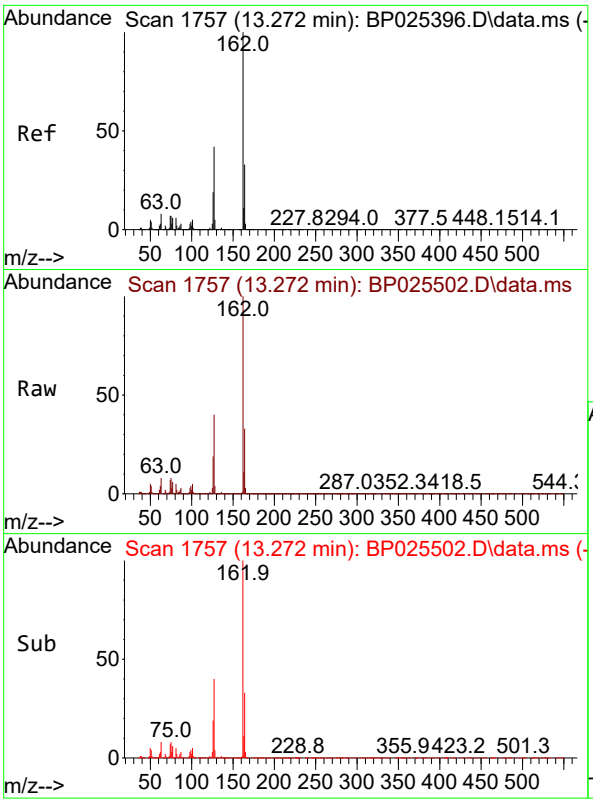


#46
1,1'-Biphenyl
Concen: 39.678 ng
RT: 13.225 min Scan# 1749
Delta R.T. -0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:154 Resp: 1153599

Ion	Ratio	Lower	Upper
154	100		
153	40.3	19.5	59.5
76	11.7	0.0	31.1





#47
2-Chloronaphthalene
Concen: 39.783 ng
RT: 13.272 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:162 Resp: 90044

Ion	Ratio	Lower	Upper
162	100		
127	39.8	33.4	50.2
164	32.7	26.2	39.2

Instrument :
BNA_P
ClientSampleId :
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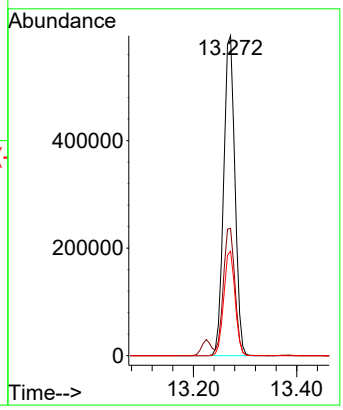
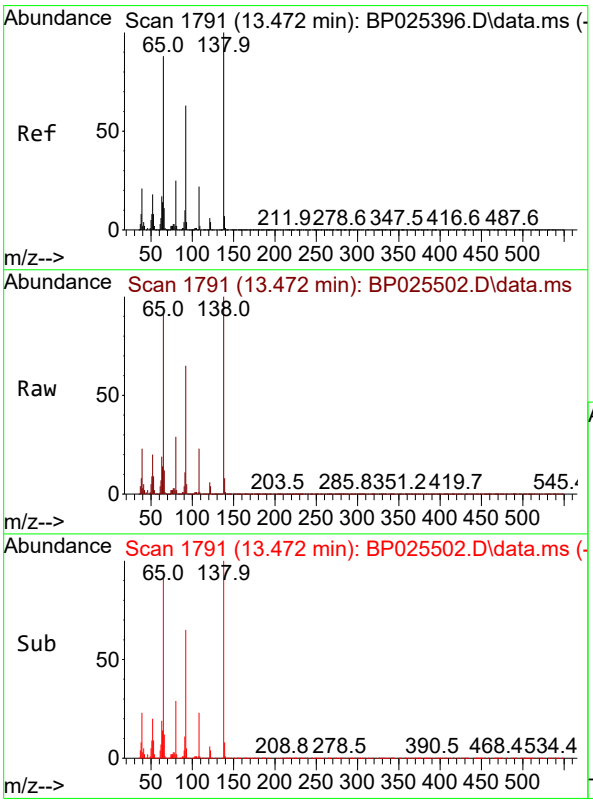
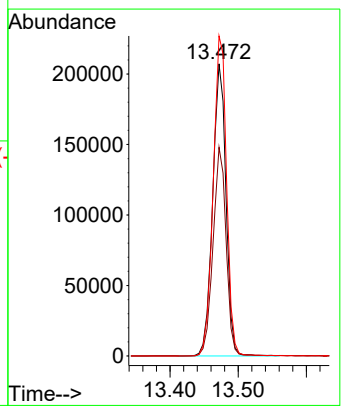


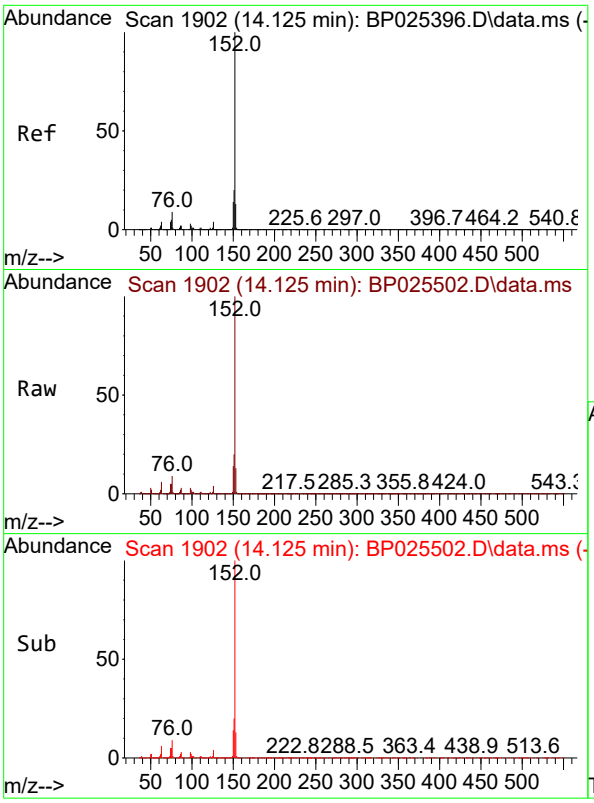


#48
2-Nitroaniline
Concen: 42.727 ng
RT: 13.472 min Scan# 1791
Delta R.T. -0.000 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion: 65 Resp: 281785

Ion	Ratio	Lower	Upper
65	100		
92	71.4	57.6	86.4
138	109.5	91.0	136.6

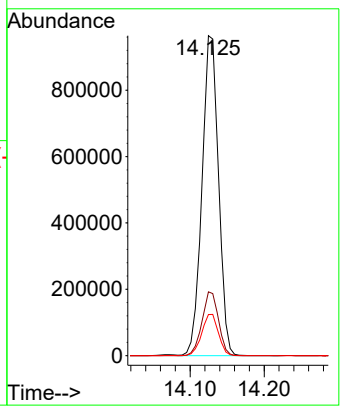




#49
Acenaphthylene
Concen: 39.860 ng
RT: 14.125 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:152 Resp: 149287

Ion	Ratio	Lower	Upper
152	100		
151	19.9	16.0	24.0
153	12.8	10.6	15.8



Instrument :
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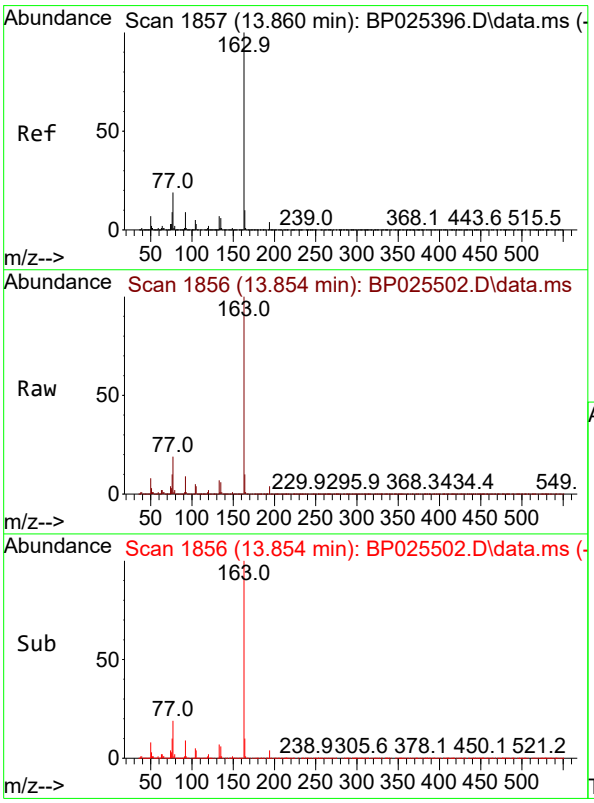
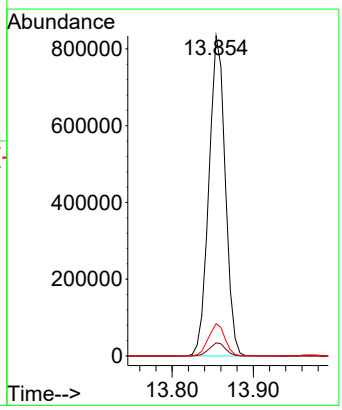
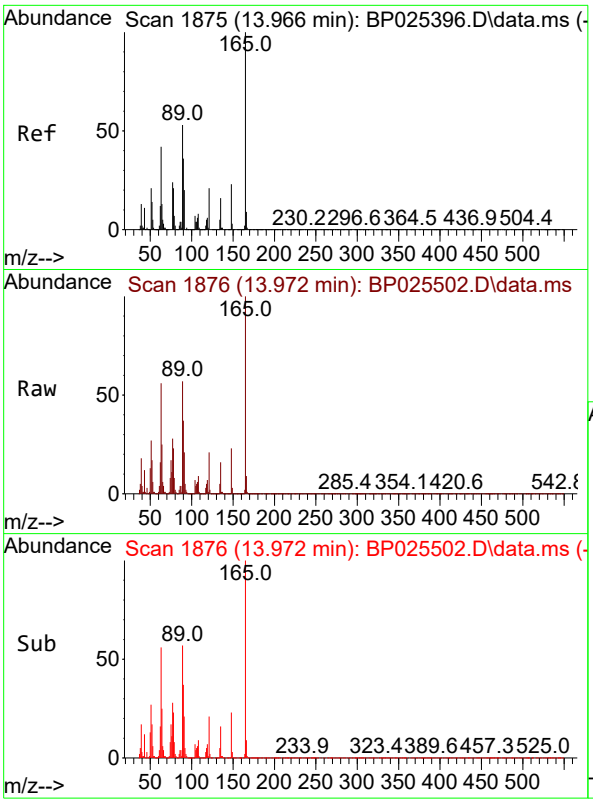


#50
Dimethylphthalate
Concen: 39.744 ng
RT: 13.854 min Scan# 1856
Delta R.T. -0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:163 Resp: 1165139

Ion	Ratio	Lower	Upper
163	100		
194	4.1	3.4	5.0
164	10.1	7.9	11.9





#51
2,6-Dinitrotoluene
Concen: 41.073 ng
RT: 13.972 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:165 Resp: 25378

Ion	Ratio	Lower	Upper
165	100		
63	56.1	40.9	61.3
89	57.3	42.1	63.1

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

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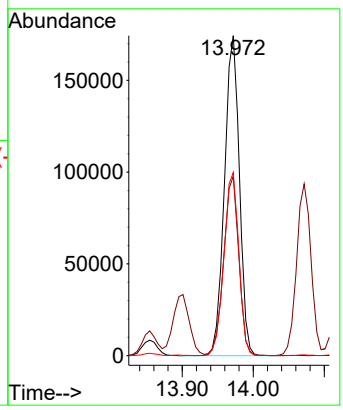
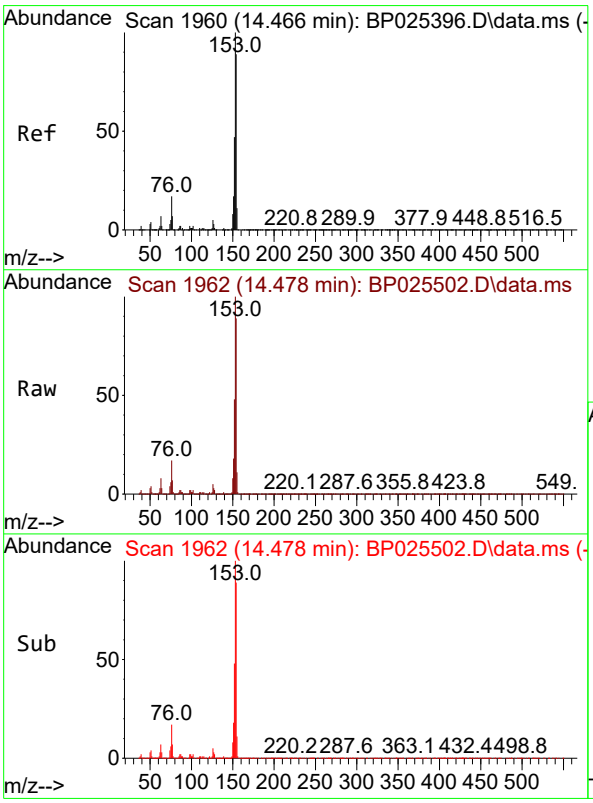
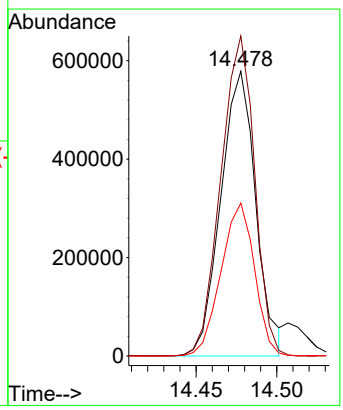


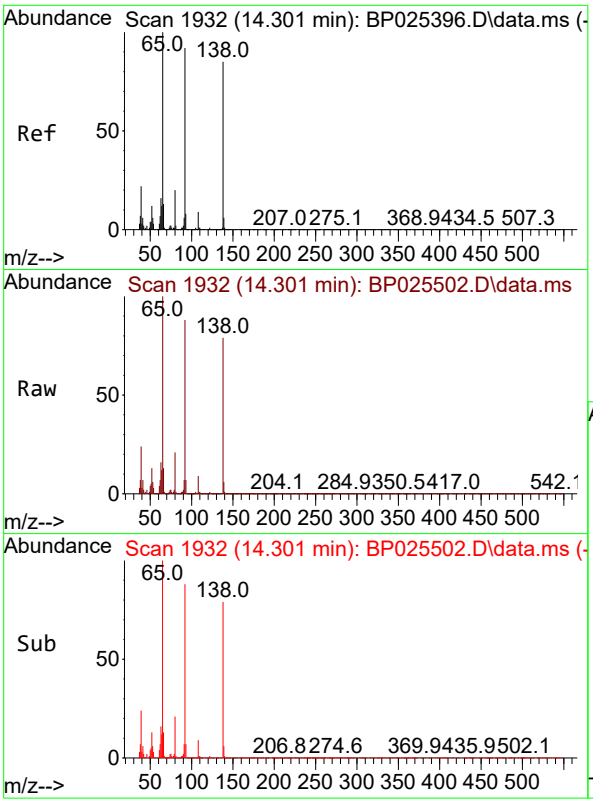


#52
Acenaphthene
Concen: 39.710 ng m
RT: 14.478 min Scan# 1962
Delta R.T. 0.012 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:154 Resp: 872980

Ion	Ratio	Lower	Upper
154	100		
153	112.4	90.2	135.2
152	53.8	42.1	63.1

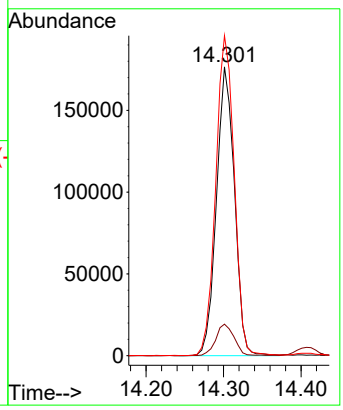




#53
3-Nitroaniline
Concen: 41.043 ng
RT: 14.301 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:138 Resp: 28532

Ion	Ratio	Lower	Upper
138	100		
108	10.9	8.3	12.5
92	110.8	86.2	129.2



Instrument :
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ClientSampleId :
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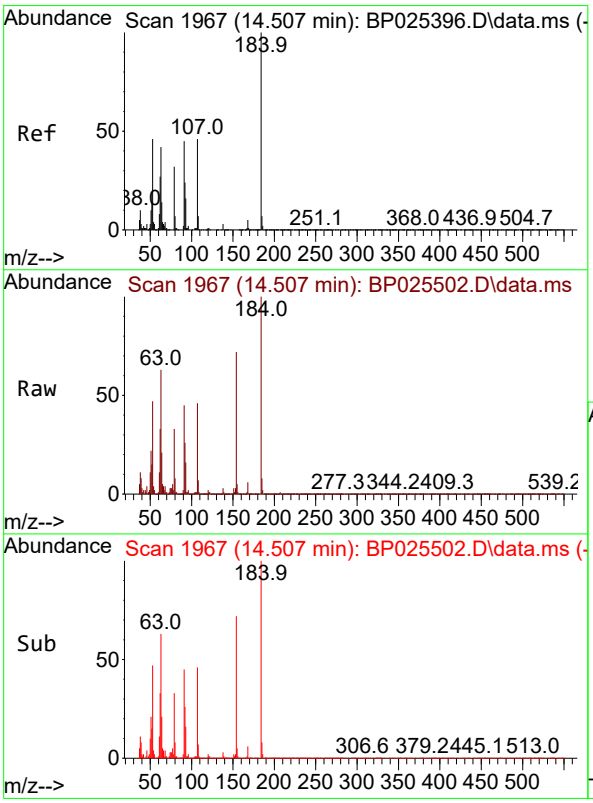
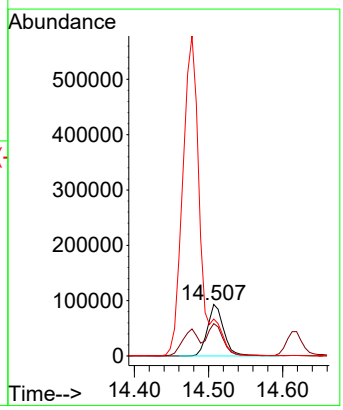
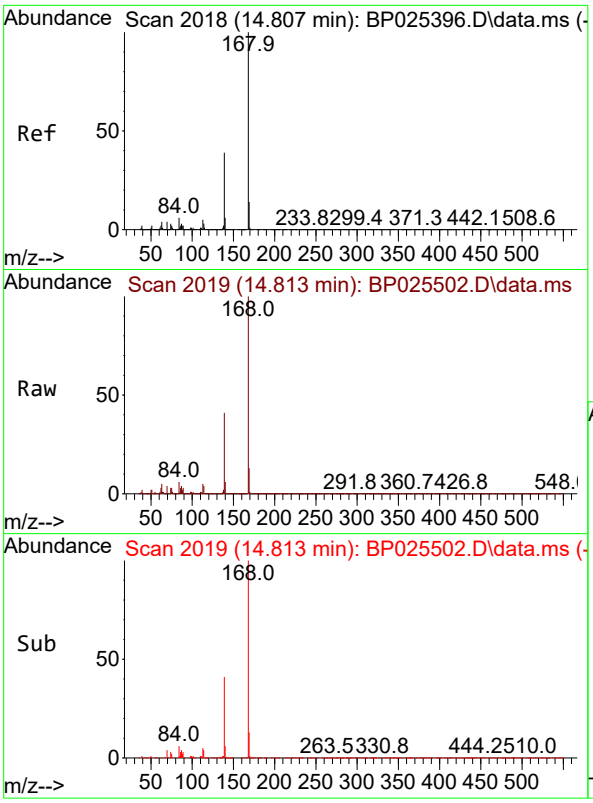


#54
2,4-Dinitrophenol
Concen: 43.128 ng
RT: 14.507 min Scan# 1967
Delta R.T. -0.000 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:184 Resp: 142309

Ion	Ratio	Lower	Upper
184	100		
63	62.8	49.4	74.2
154	71.8	54.6	82.0

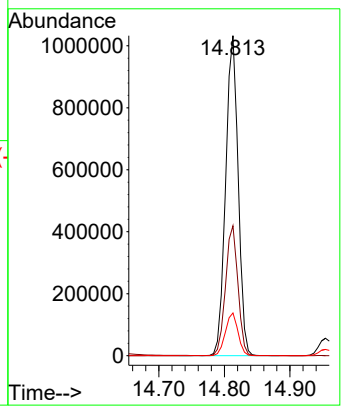




#55
Dibenzofuran
Concen: 39.226 ng
RT: 14.813 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:168 Resp: 136338

Ion	Ratio	Lower	Upper
168	100		
139	40.6	31.5	47.3
169	13.3	10.9	16.3



Instrument :
BNA_P
ClientSampleId :
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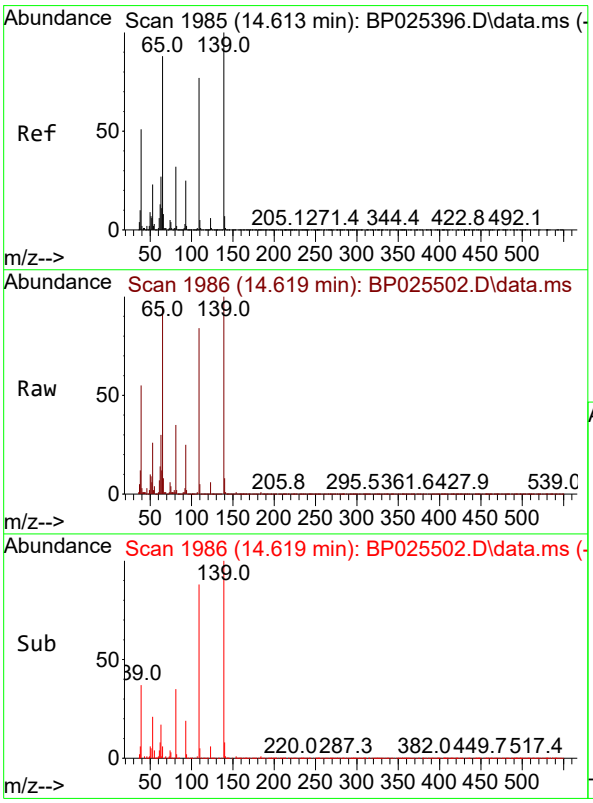
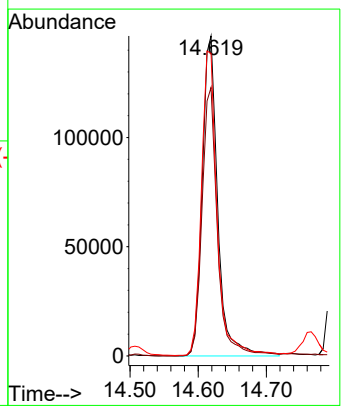
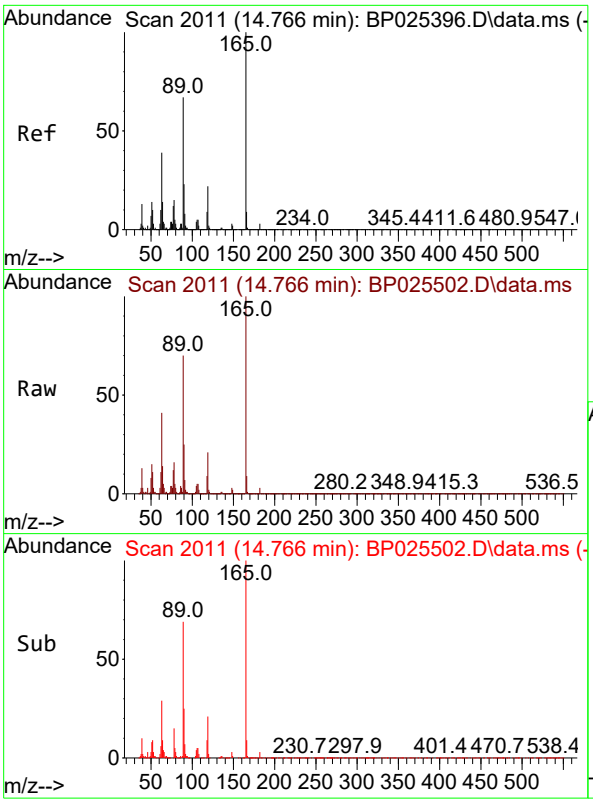


#56
4-Nitrophenol
Concen: 40.538 ng
RT: 14.619 min Scan# 1986
Delta R.T. 0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:139 Resp: 231578

Ion	Ratio	Lower	Upper
139	100		
109	83.9	56.6	96.6
65	94.5	68.2	108.2

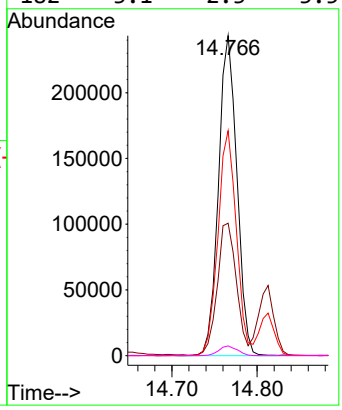




#57
2,4-Dinitrotoluene
Concen: 41.459 ng
RT: 14.766 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:165 Resp: 36549

Ion	Ratio	Lower	Upper
165	100		
63	41.4	31.4	47.2
89	70.3	53.3	79.9
182	3.1	2.3	3.5



Instrument :
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ClientSampleId :
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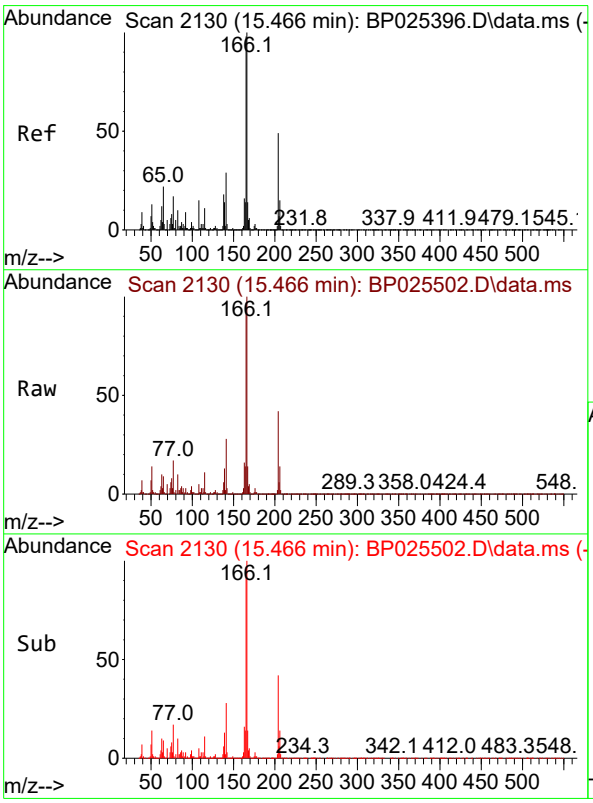
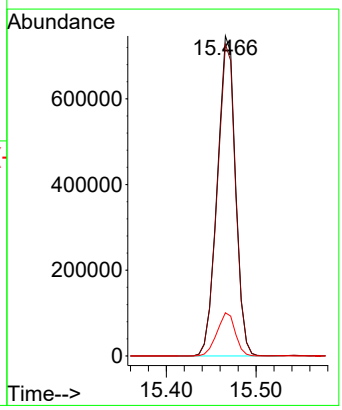
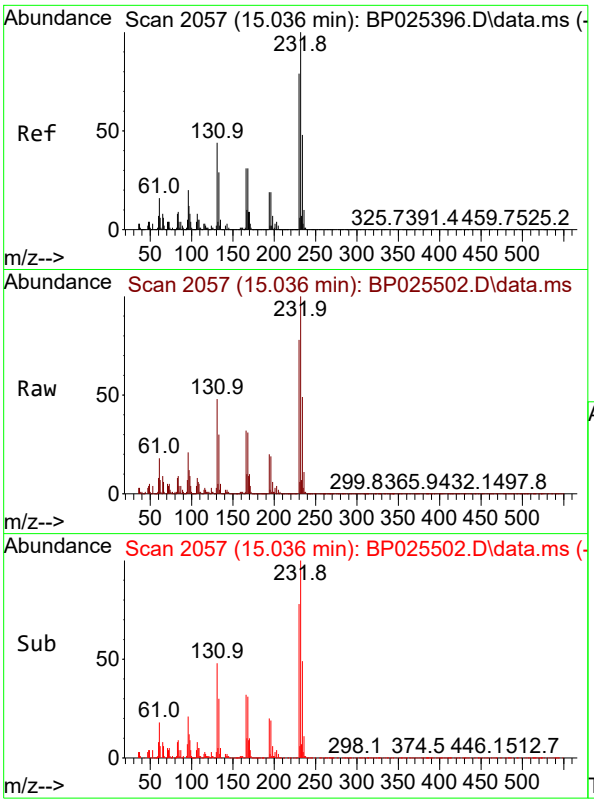


#58
Fluorene
Concen: 38.412 ng
RT: 15.466 min Scan# 2130
Delta R.T. -0.000 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:166 Resp: 1053490

Ion	Ratio	Lower	Upper
166	100		
165	97.4	78.8	118.2
167	13.5	11.0	16.4

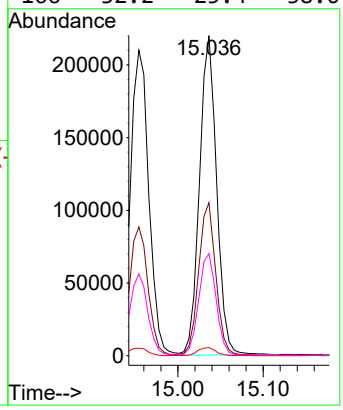




#59
2,3,4,6-Tetrachlorophenol
Concen: 40.574 ng
RT: 15.036 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:232 Resp: 30648

Ion	Ratio	Lower	Upper
232	100		
131	47.8	37.0	55.6
130	2.6	1.9	2.9
166	32.2	25.4	38.0



Instrument :
BNA_P
ClientSampleId :
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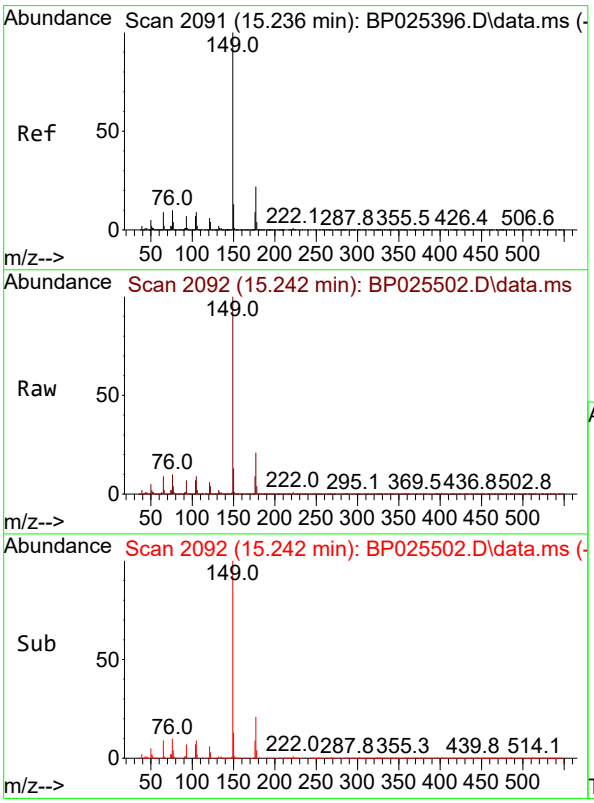
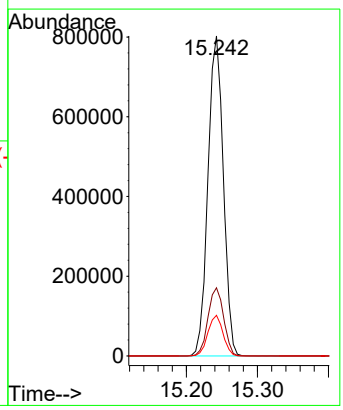
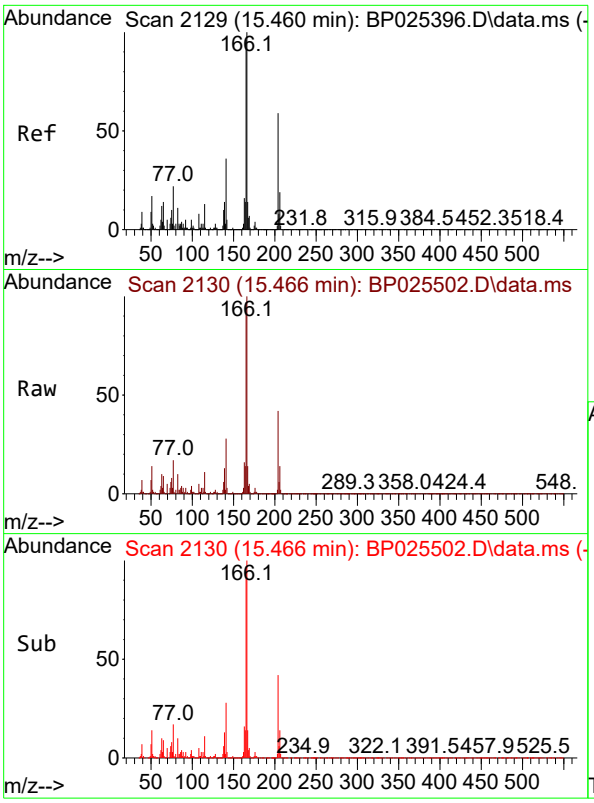


#60
Diethylphthalate
Concen: 40.513 ng
RT: 15.242 min Scan# 2092
Delta R.T. 0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:149 Resp: 1206790

Ion	Ratio	Lower	Upper
149	100		
177	21.3	17.3	25.9
150	12.7	10.3	15.5

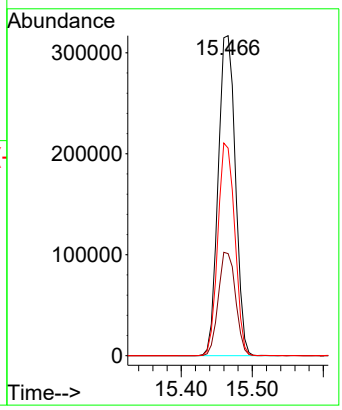




#61
4-Chlorophenyl-phenylether
Concen: 38.934 ng
RT: 15.466 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:204 Resp: 53105

Ion	Ratio	Lower	Upper
204	100		
206	31.9	25.8	38.8
141	64.8	49.4	74.2



Instrument :
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ClientSampleId :
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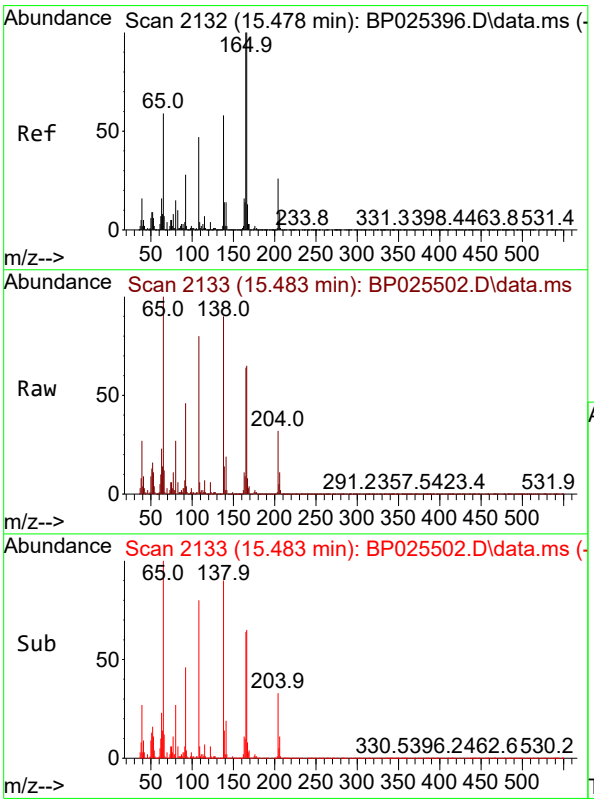
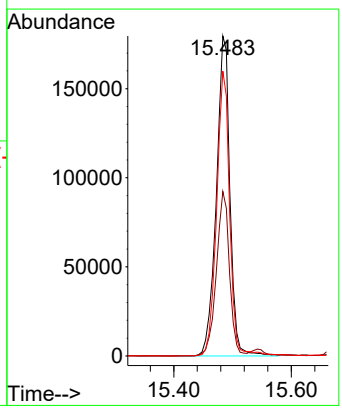
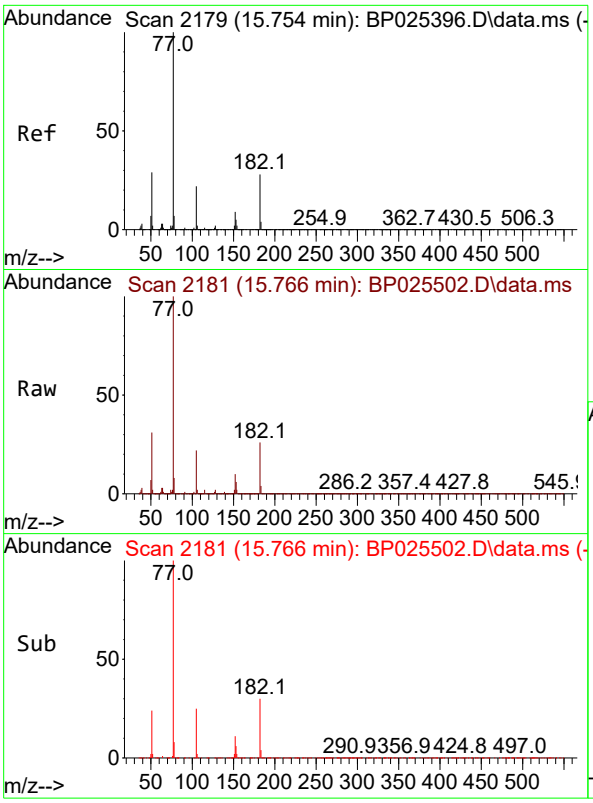


#62
4-Nitroaniline
Concen: 40.530 ng
RT: 15.483 min Scan# 2133
Delta R.T. 0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:138 Resp: 288849

Ion	Ratio	Lower	Upper
138	100		
92	51.4	29.1	69.1
108	89.0	61.5	101.5

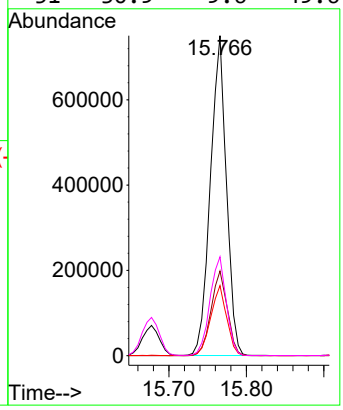




#63
Azobenzene
Concen: 42.199 ng
RT: 15.766 min Scan# 2
Delta R.T. 0.012 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion: 77 Resp: 107634

Ion	Ratio	Lower	Upper
77	100		
182	26.4	7.5	47.5
105	21.9	2.1	42.1
51	30.9	9.6	49.6



Instrument :
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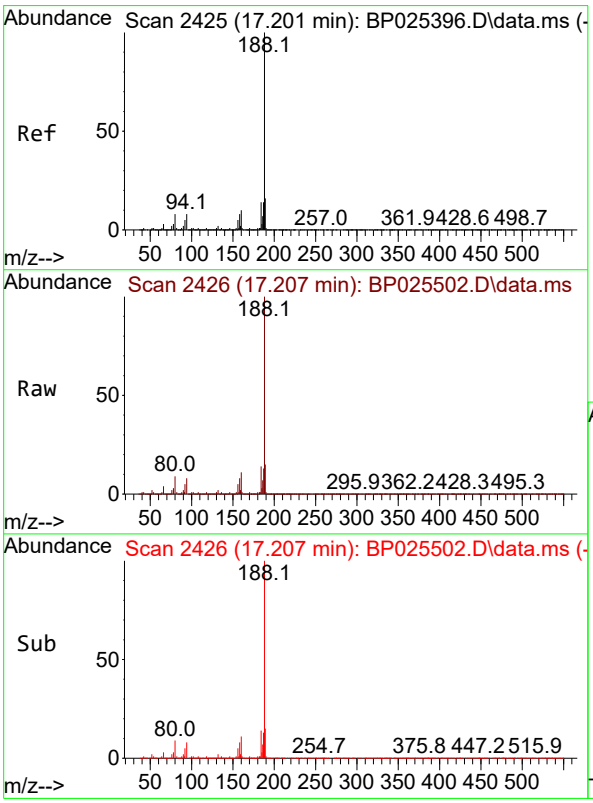
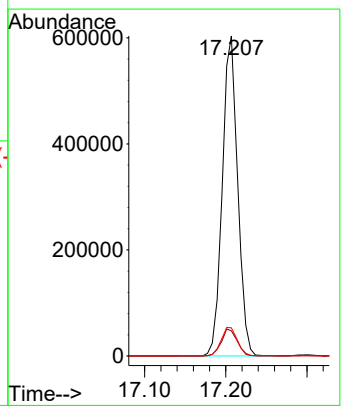
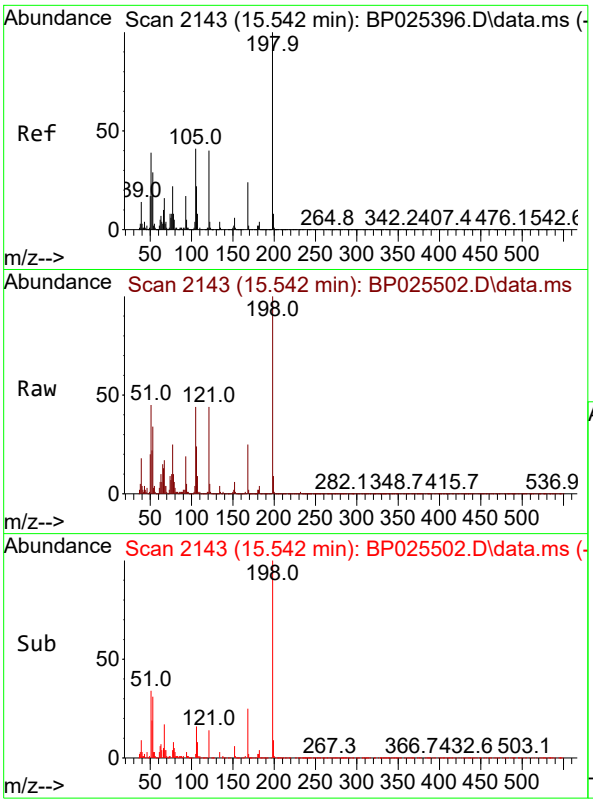


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.207 min Scan# 2426
Delta R.T. 0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:188 Resp: 794586

Ion	Ratio	Lower	Upper
188	100		
94	7.8	6.6	10.0
80	8.8	6.7	10.1

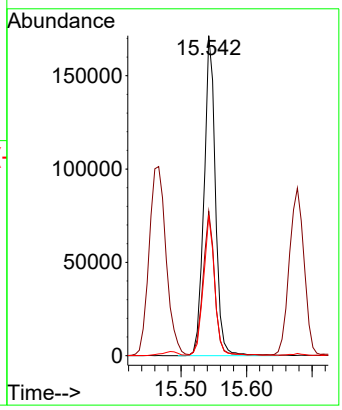




#65
4,6-Dinitro-2-methylphenol
Concen: 41.917 ng
RT: 15.542 min Scan# 21
Delta R.T. -0.000 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:198 Resp: 20761

Ion	Ratio	Lower	Upper
198	100		
51	45.1	19.6	59.6
105	43.8	20.9	60.9



Instrument :
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ClientSampleId :
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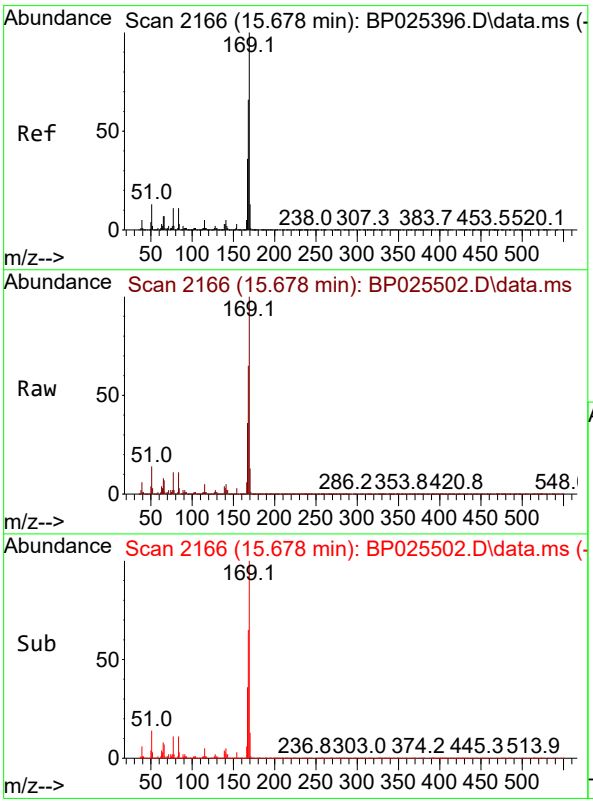
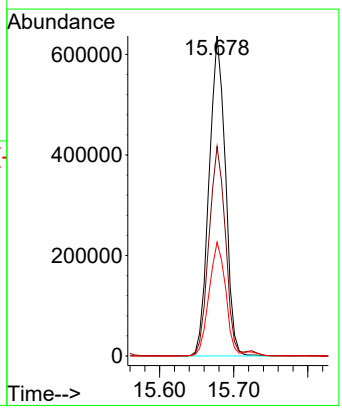
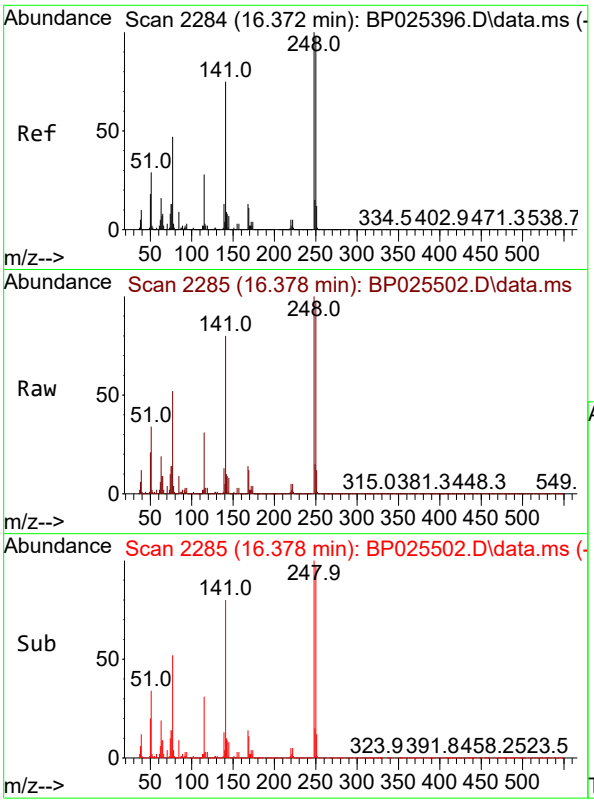


#66
n-Nitrosodiphenylamine
Concen: 40.171 ng
RT: 15.678 min Scan# 2166
Delta R.T. -0.000 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:169 Resp: 973360

Ion	Ratio	Lower	Upper
169	100		
168	65.4	53.2	79.8
167	35.6	28.7	43.1

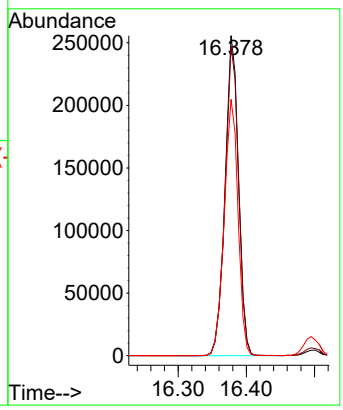




#67
4-Bromophenyl-phenylether
Concen: 40.268 ng
RT: 16.378 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:248 Resp: 35189

Ion	Ratio	Lower	Upper
248	100		
250	96.8	78.2	117.2
141	80.1	59.6	89.4



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

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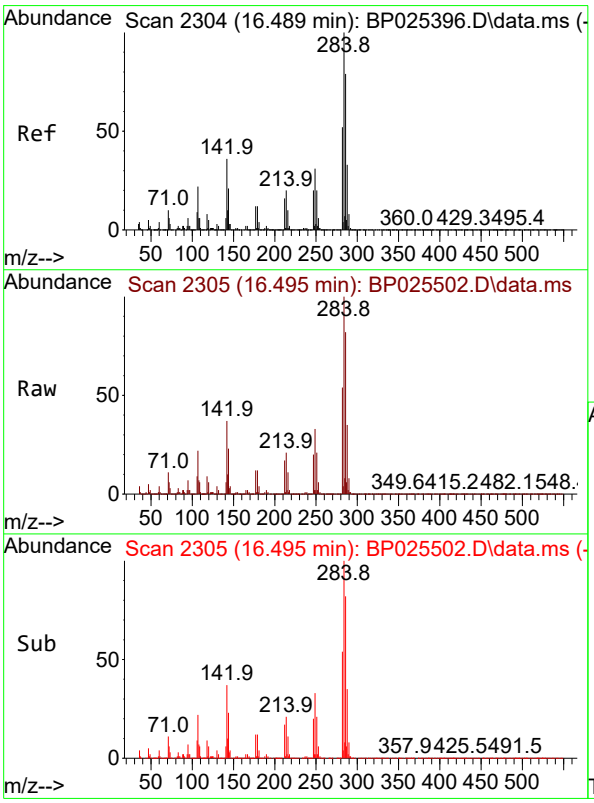
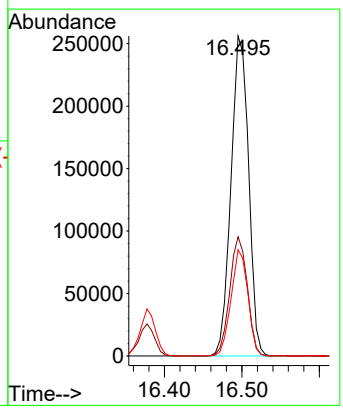
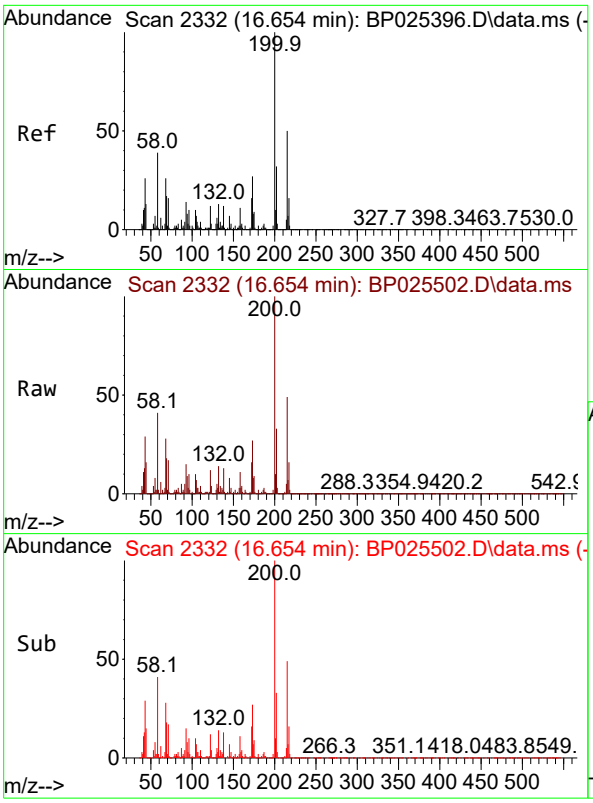


#68
Hexachlorobenzene
Concen: 39.919 ng
RT: 16.495 min Scan# 2305
Delta R.T. 0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:284 Resp: 404392

Ion	Ratio	Lower	Upper
284	100		
142	37.3	29.1	43.7
249	33.2	25.0	37.4

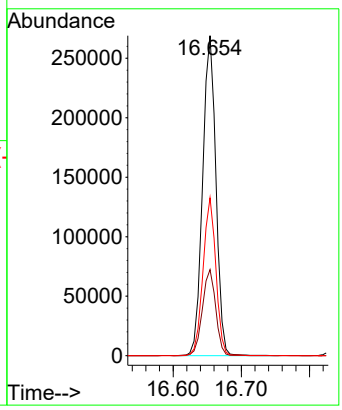




#69
Atrazine
Concen: 40.186 ng
RT: 16.654 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:200 Resp: 36465

Ion	Ratio	Lower	Upper
200	100		
173	26.9	6.7	46.7
215	49.3	29.7	69.7



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

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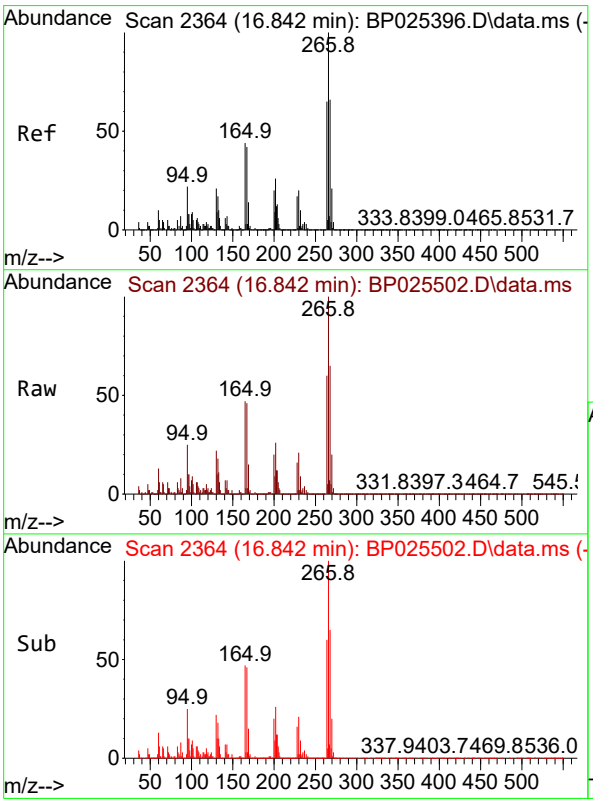
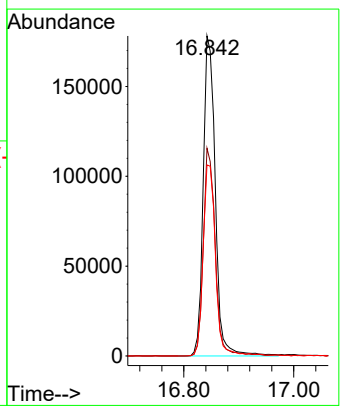
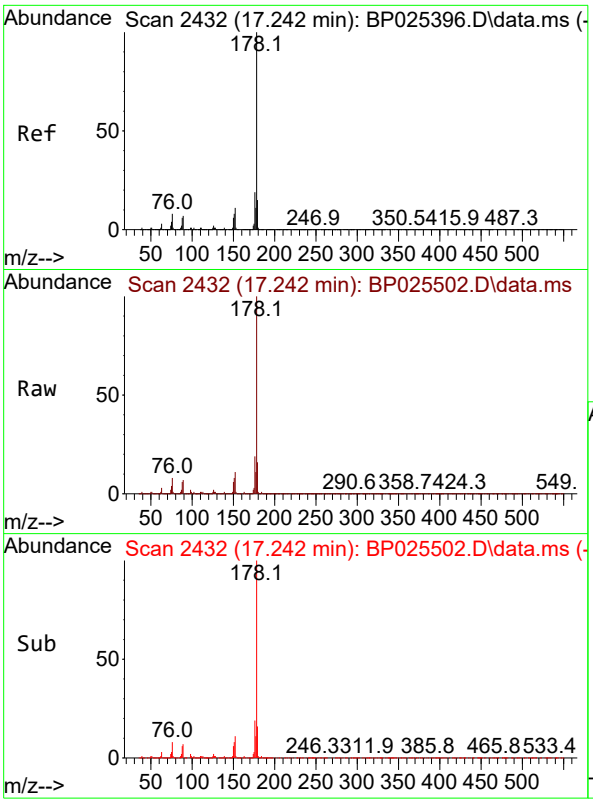


#70
Pentachlorophenol
Concen: 42.449 ng
RT: 16.842 min Scan# 2364
Delta R.T. -0.000 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:266 Resp: 271451

Ion	Ratio	Lower	Upper
266	100		
268	64.9	52.6	79.0
264	59.7	52.0	78.0

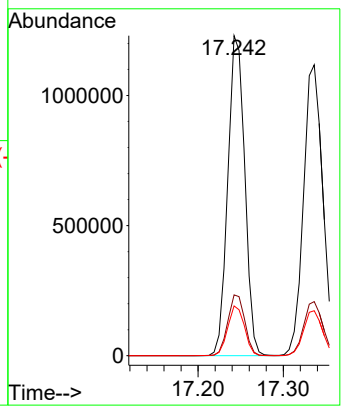




#71
Phenanthrene
Concen: 39.064 ng
RT: 17.242 min Scan# 24
Delta R.T. -0.000 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:178 Resp: 170512

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.5	23.3
179	15.6	12.2	18.4



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

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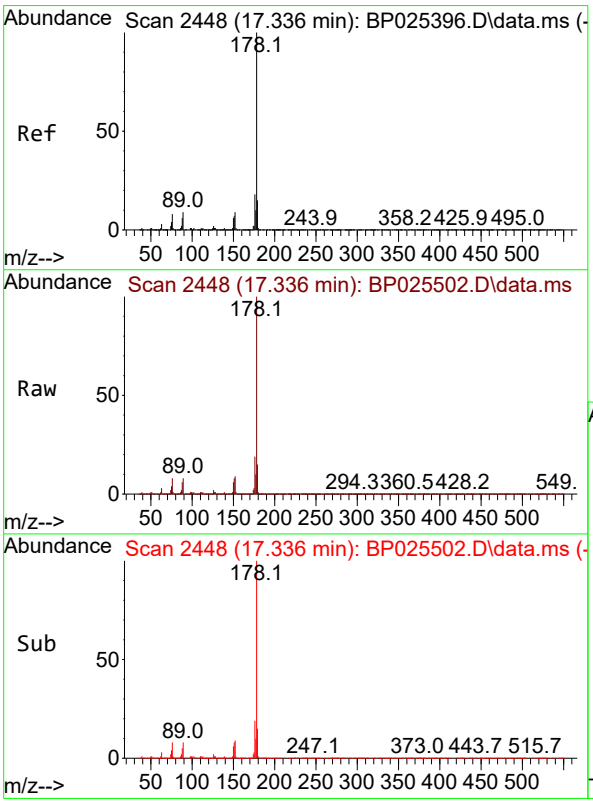
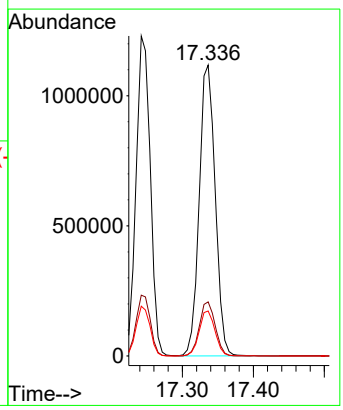
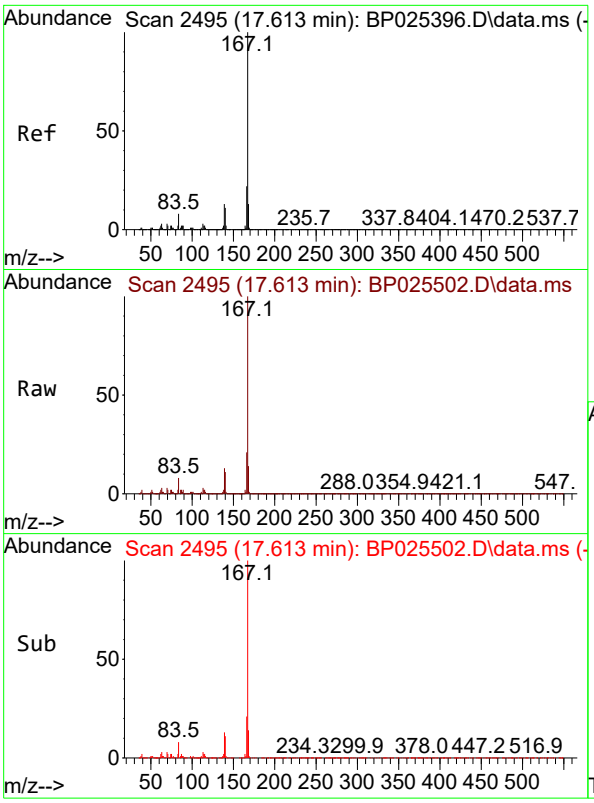


#72
Anthracene
Concen: 39.365 ng
RT: 17.336 min Scan# 2448
Delta R.T. -0.000 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:178 Resp: 1754702

Ion	Ratio	Lower	Upper
178	100		
176	18.6	14.7	22.1
179	15.5	12.2	18.2

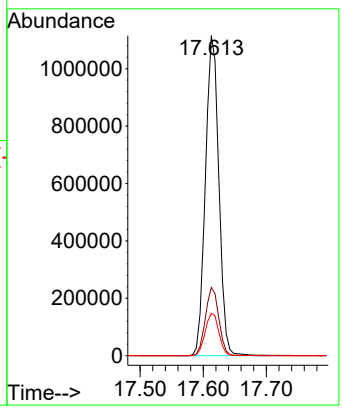




#73
Carbazole
Concen: 39.300 ng
RT: 17.613 min Scan# 24
Delta R.T. -0.000 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:167 Resp: 165003

Ion	Ratio	Lower	Upper
167	100		
166	21.3	17.5	26.3
139	13.3	10.6	16.0



Instrument :
BNA_P
ClientSampleId :
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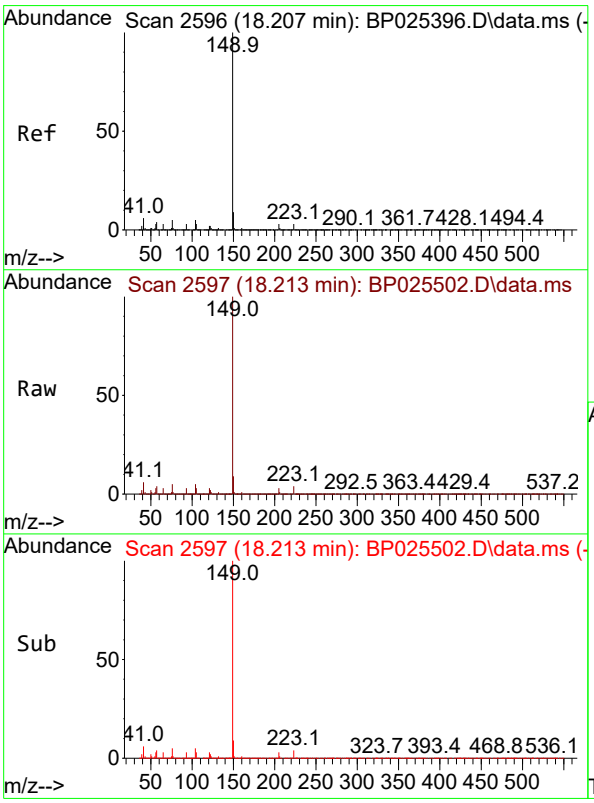
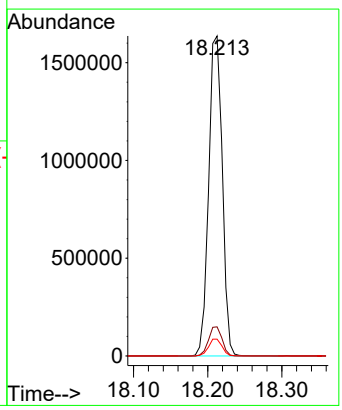
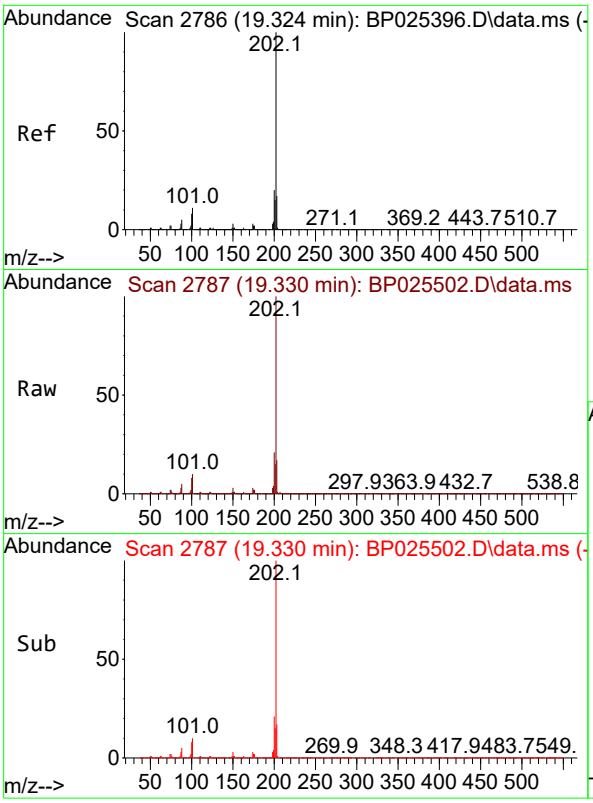


#74
Di-n-butylphthalate
Concen: 40.373 ng
RT: 18.213 min Scan# 2597
Delta R.T. 0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:149 Resp: 2085492

Ion	Ratio	Lower	Upper
149	100		
150	9.1	7.4	11.0
104	5.2	4.2	6.2

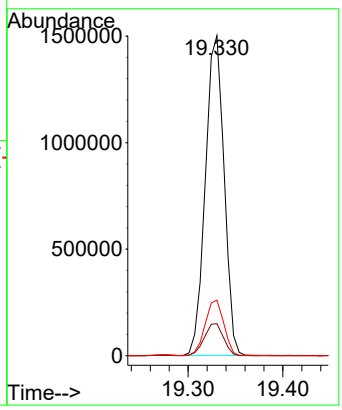




#75
Fluoranthene
Concen: 39.528 ng
RT: 19.330 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:202 Resp: 205806

Ion	Ratio	Lower	Upper
202	100		
101	10.0	0.0	31.1
203	17.3	0.0	37.3



Instrument :
BNA_P
ClientSampleId :
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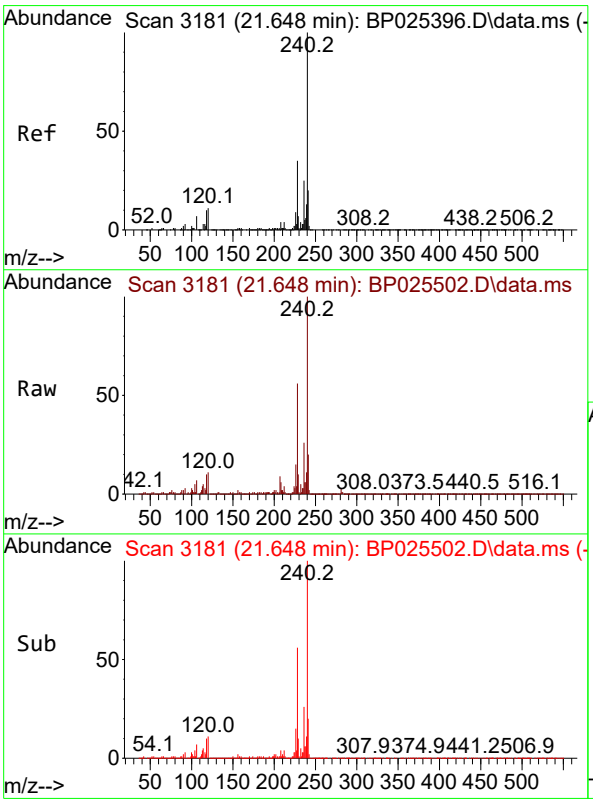
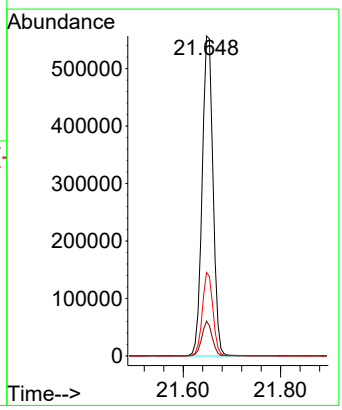
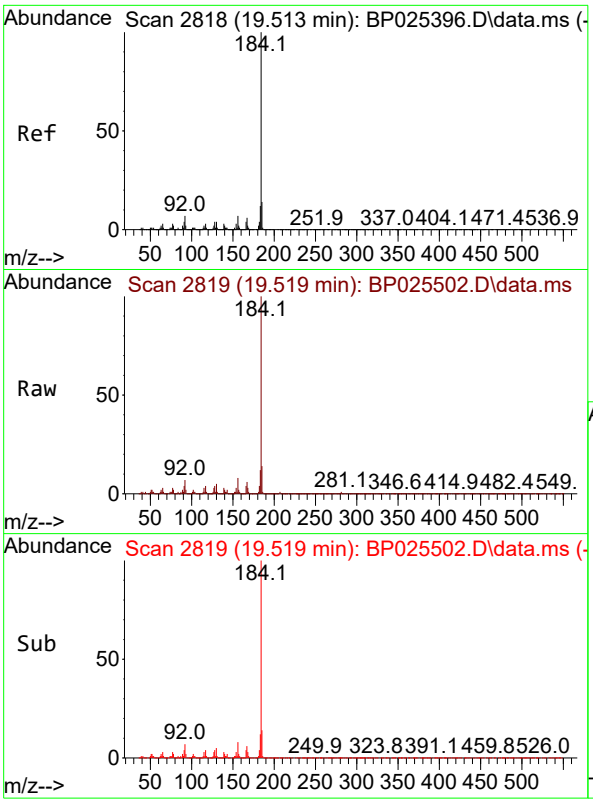


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.648 min Scan# 3181
Delta R.T. -0.000 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:240 Resp: 859938

Ion	Ratio	Lower	Upper
240	100		
120	10.8	8.9	13.3
236	26.1	19.8	29.8

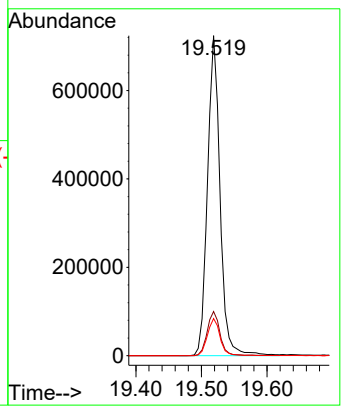




#77
Benzidine
Concen: 32.893 ng
RT: 19.519 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:184 Resp: 96534

Ion	Ratio	Lower	Upper
184	100		
185	13.8	11.5	17.3
183	11.6	9.4	14.2



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

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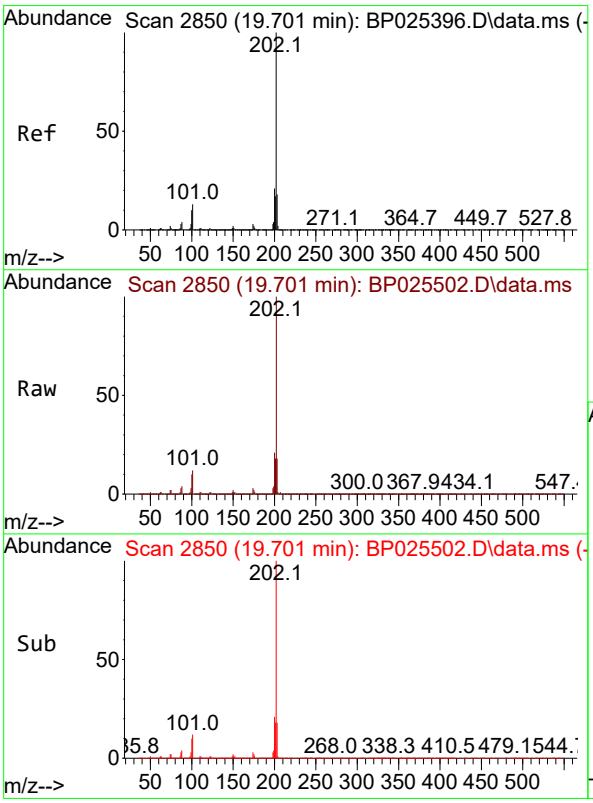
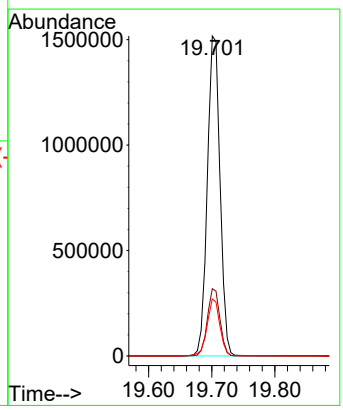
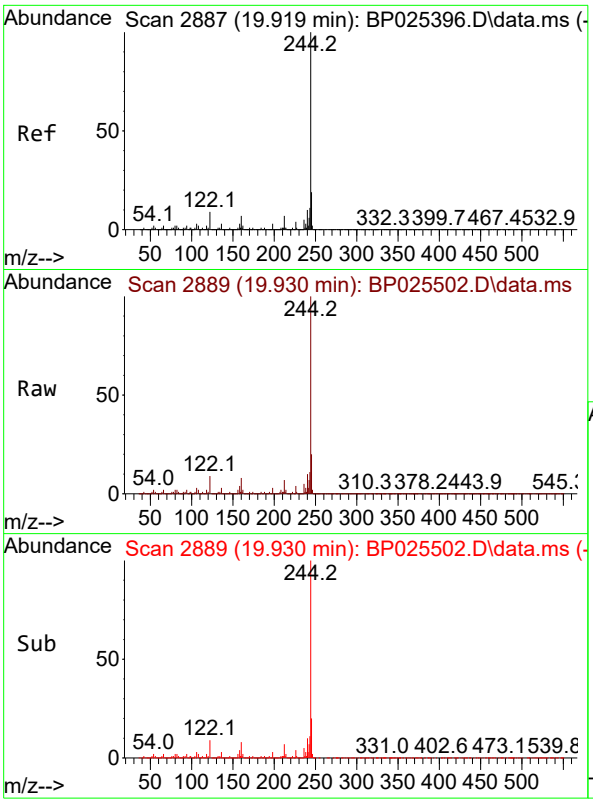


#78
Pyrene
Concen: 37.983 ng
RT: 19.701 min Scan# 2850
Delta R.T. -0.000 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:202 Resp: 2123016

Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.9	25.3
203	17.8	14.2	21.2

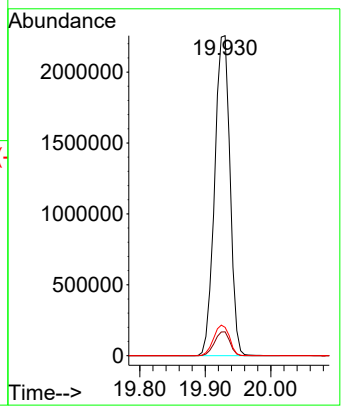




#79
Terphenyl-d14
Concen: 77.772 ng
RT: 19.930 min Scan# 2
Delta R.T. 0.012 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:244 Resp: 365545

Ion	Ratio	Lower	Upper
244	100		
212	7.5	5.8	8.6
122	8.9	7.4	11.2



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Manual Integrations
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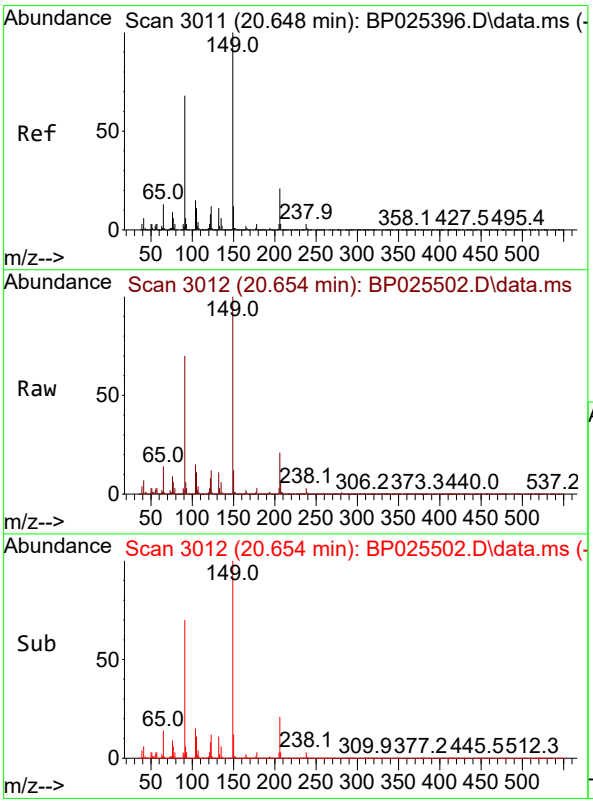
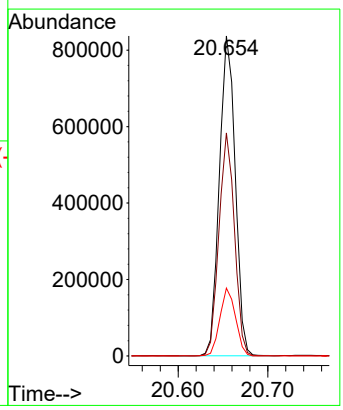
Reviewed By :Rahul Chavli 08/20/2025
Supervised By :Jagrut Upadhyay 08/21/2025

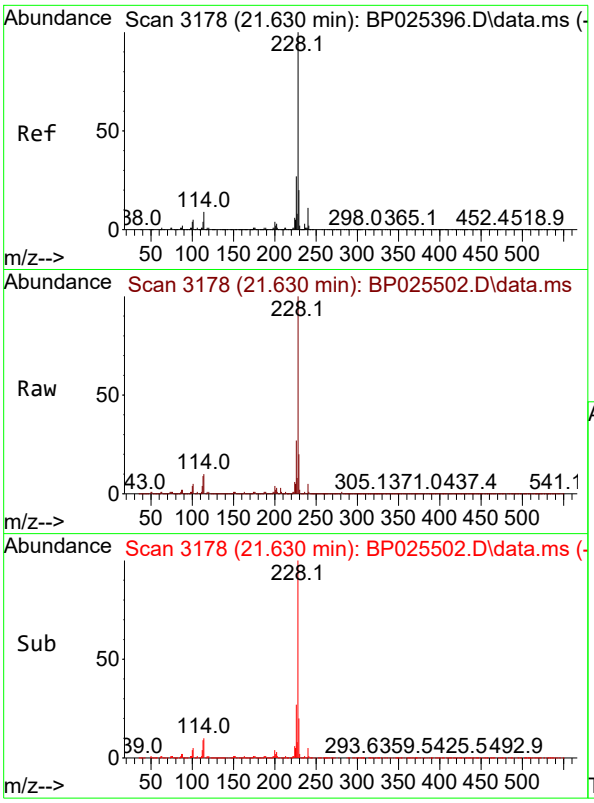


#80
Butylbenzylphthalate
Concen: 40.617 ng
RT: 20.654 min Scan# 3012
Delta R.T. 0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:149 Resp: 1028893

Ion	Ratio	Lower	Upper
149	100		
91	69.7	54.2	81.2
206	21.2	16.6	24.8

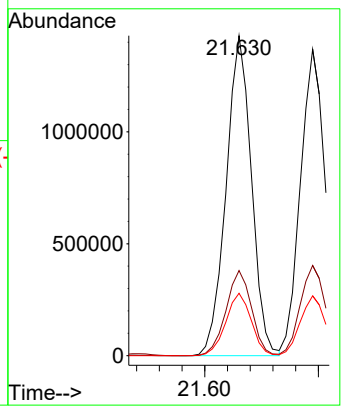




#81
Benzo(a)anthracene
Concen: 39.128 ng
RT: 21.630 min Scan# 3
Delta R.T. -0.000 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:228 Resp: 221909

Ion	Ratio	Lower	Upper
228	100		
226	26.6	21.7	32.5
229	19.5	15.6	23.4



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Manual Integrations
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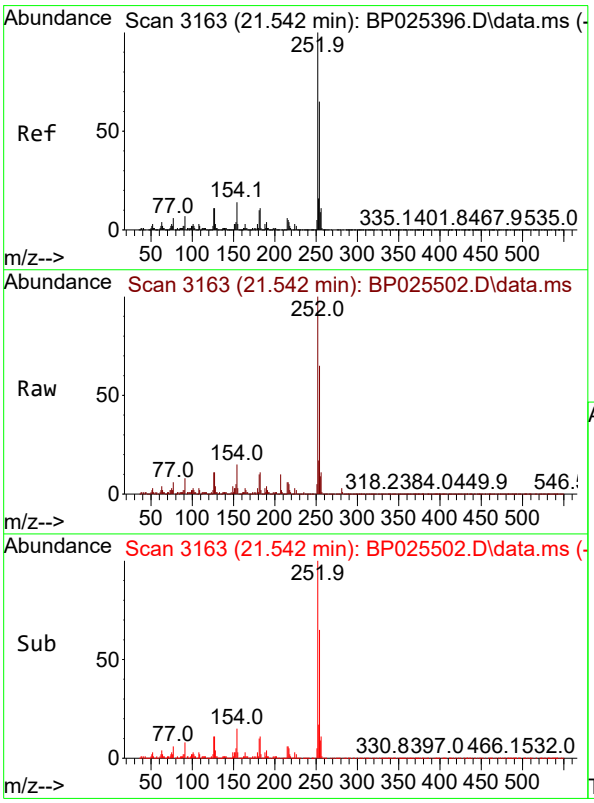
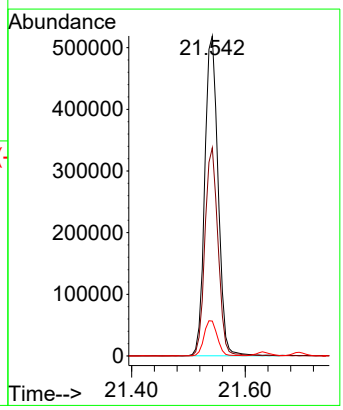
Reviewed By :Rahul Chavli 08/20/2025
Supervised By :Jagrut Upadhyay 08/21/2025

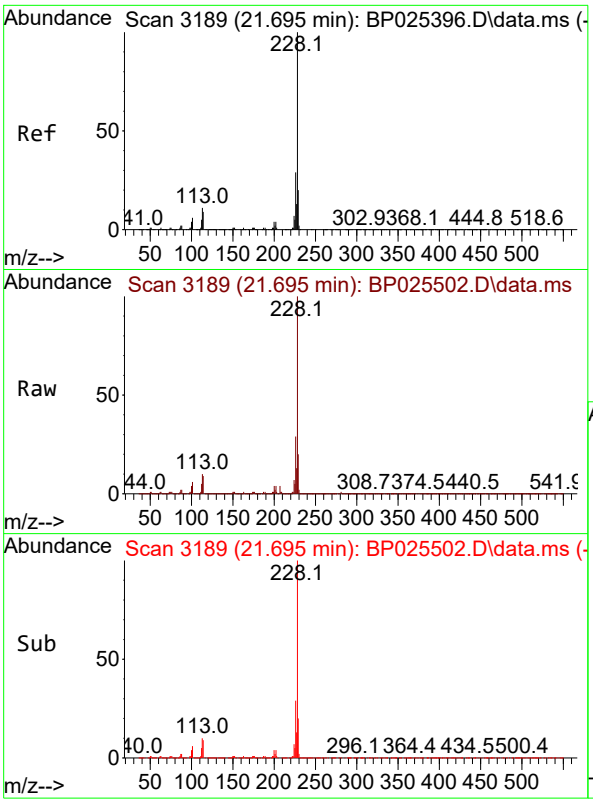


#82
3,3'-Dichlorobenzidine
Concen: 39.295 ng
RT: 21.542 min Scan# 3163
Delta R.T. -0.000 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:252 Resp: 839996

Ion	Ratio	Lower	Upper
252	100		
254	65.0	51.8	77.6
126	10.9	9.1	13.7

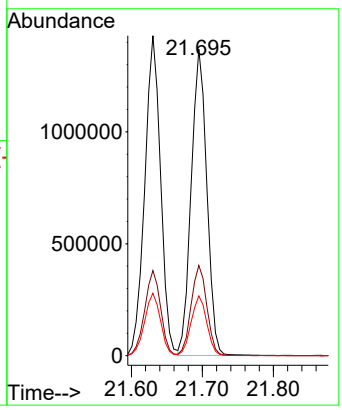




#83
Chrysene
Concen: 39.434 ng
RT: 21.695 min Scan# 3
Delta R.T. -0.000 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:228 Resp: 209442

Ion	Ratio	Lower	Upper
228	100		
226	29.5	23.2	34.8
229	19.5	15.6	23.4



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Manual Integrations
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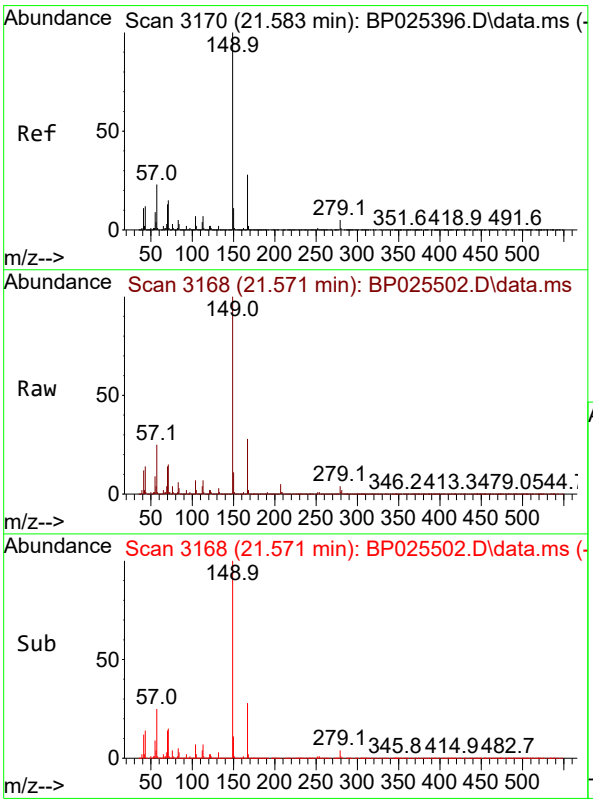
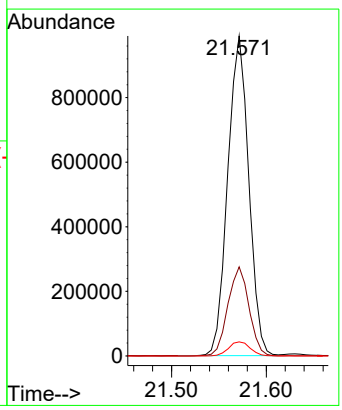
Reviewed By :Rahul Chavli 08/20/2025
Supervised By :Jagrut Upadhyay 08/21/2025

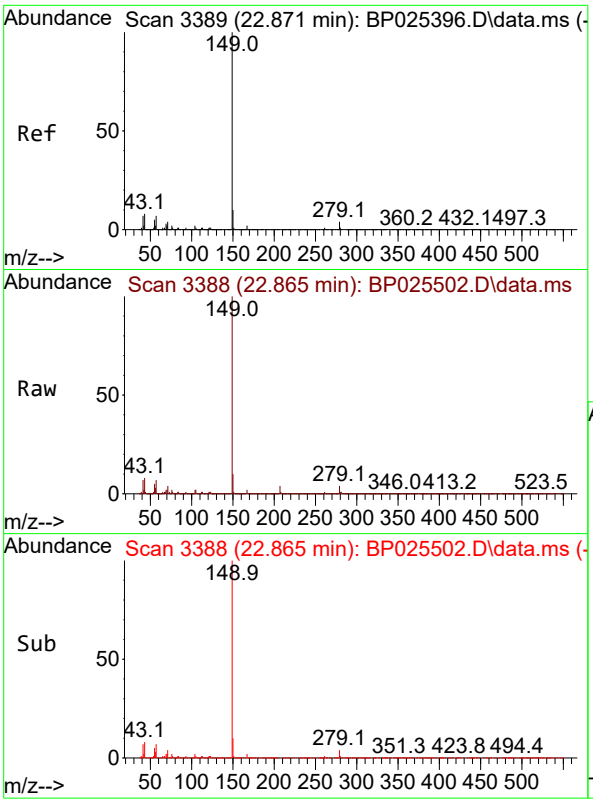


#84
Bis(2-ethylhexyl)phthalate
Concen: 41.001 ng
RT: 21.571 min Scan# 3168
Delta R.T. -0.012 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:149 Resp: 1528918

Ion	Ratio	Lower	Upper
149	100		
167	27.9	22.1	33.1
279	4.4	3.8	5.6





#85
Di-n-octyl phthalate
Concen: 41.280 ng
RT: 22.865 min Scan# 3
Delta R.T. -0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

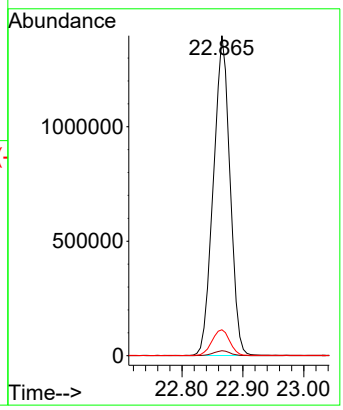
Tgt Ion:149 Resp: 264764

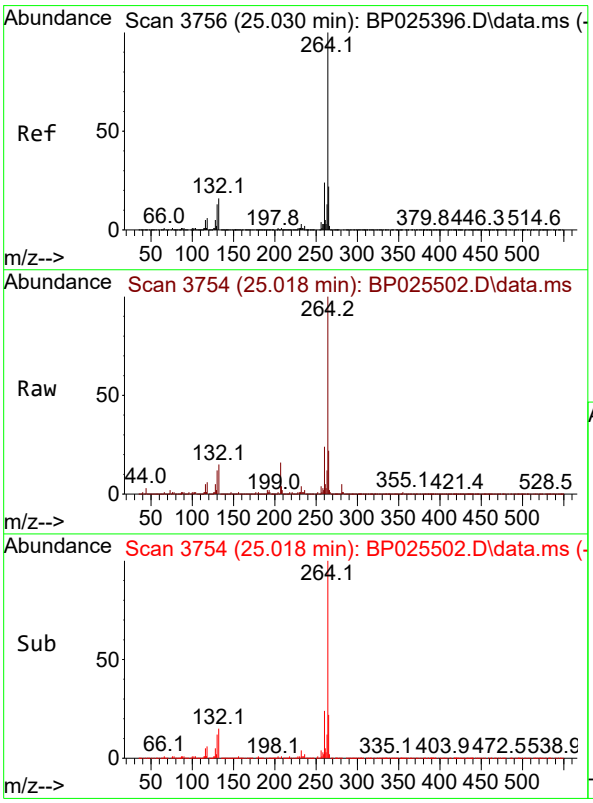
Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	8.6	6.3	9.5

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 08/20/2025
Supervised By :Jagrut Upadhyay 08/21/2025

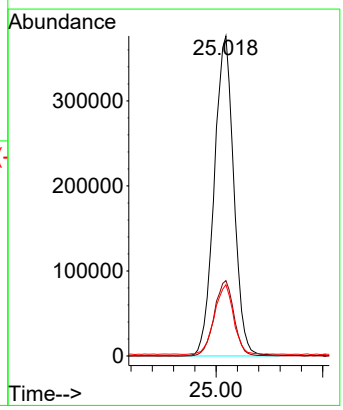


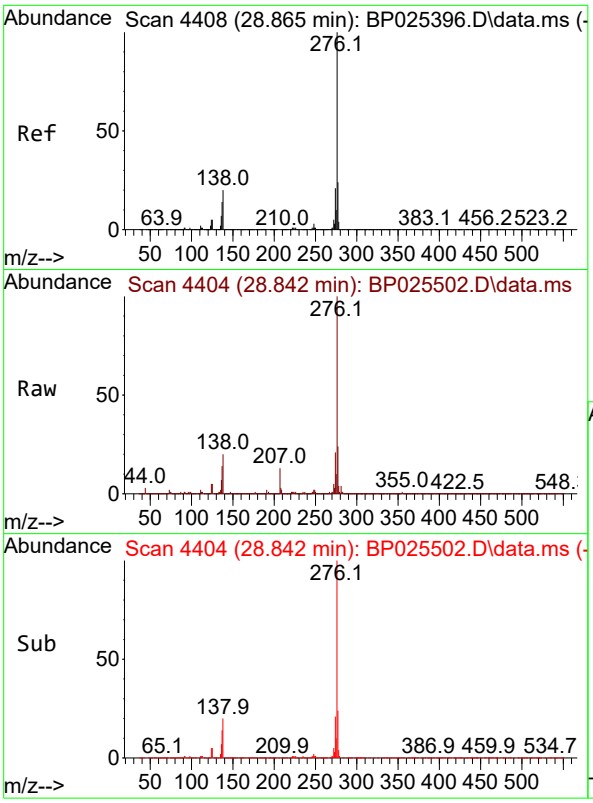


#86
Perylene-d12
Concen: 20.000 ng
RT: 25.018 min Scan# 3754
Delta R.T. -0.012 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:264 Resp: 959319

Ion	Ratio	Lower	Upper
264	100		
260	23.6	19.3	28.9
265	22.3	17.4	26.0

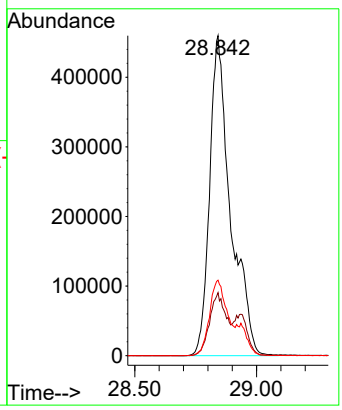




#87
Indeno(1,2,3-cd)pyrene
Concen: 38.904 ng
RT: 28.842 min Scan# 4
Delta R.T. -0.024 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:276 Resp: 273698

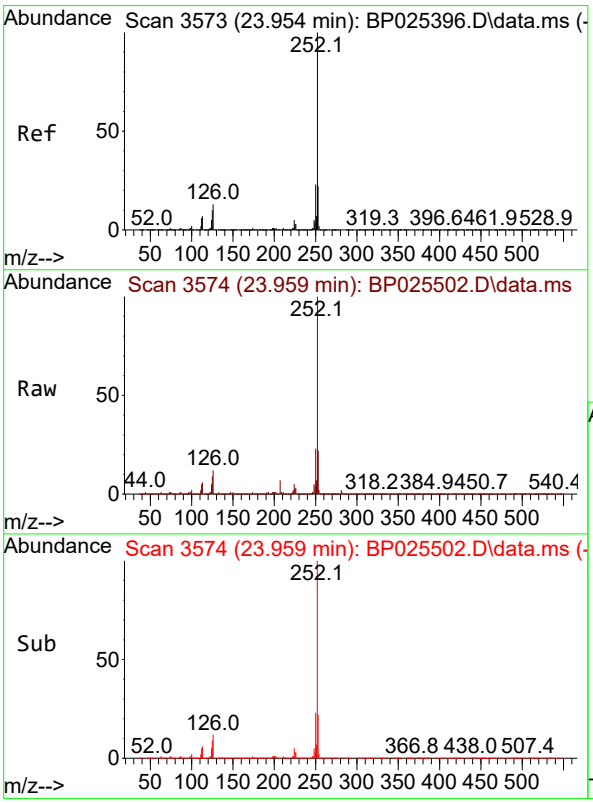
Ion	Ratio	Lower	Upper
276	100		
138	15.6	12.9	19.3
277	20.3	17.0	25.6



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Manual Integrations APPROVED

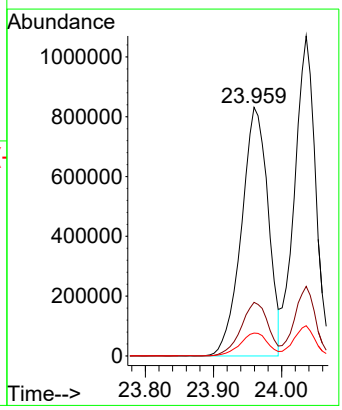
Reviewed By :Rahul Chavli 08/20/2025
Supervised By :Jagrut Upadhyay 08/21/2025

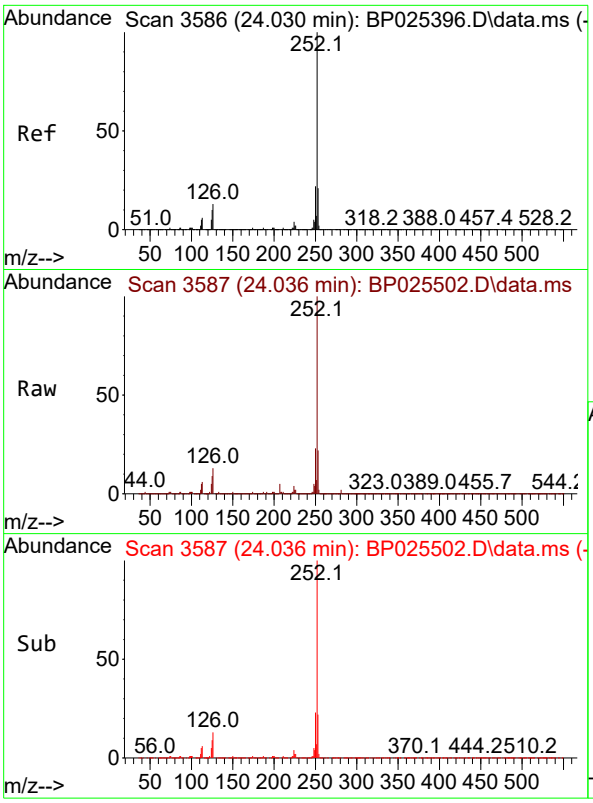


#88
Benzo(b)fluoranthene
Concen: 39.777 ng
RT: 23.959 min Scan# 3574
Delta R.T. 0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:252 Resp: 2250091

Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.7	26.5
125	9.2	7.9	11.9





#89
Benzo(k)fluoranthene
Concen: 40.536 ng
RT: 24.036 min Scan# 3
Delta R.T. 0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:252 Resp: 229459

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.1	25.7
125	9.5	7.8	11.6

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Manual Integrations
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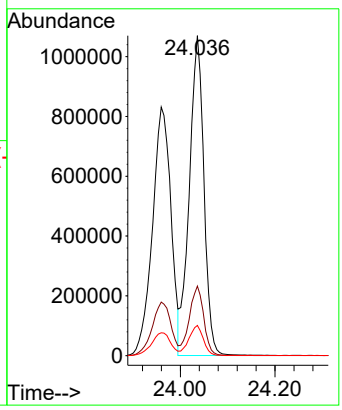
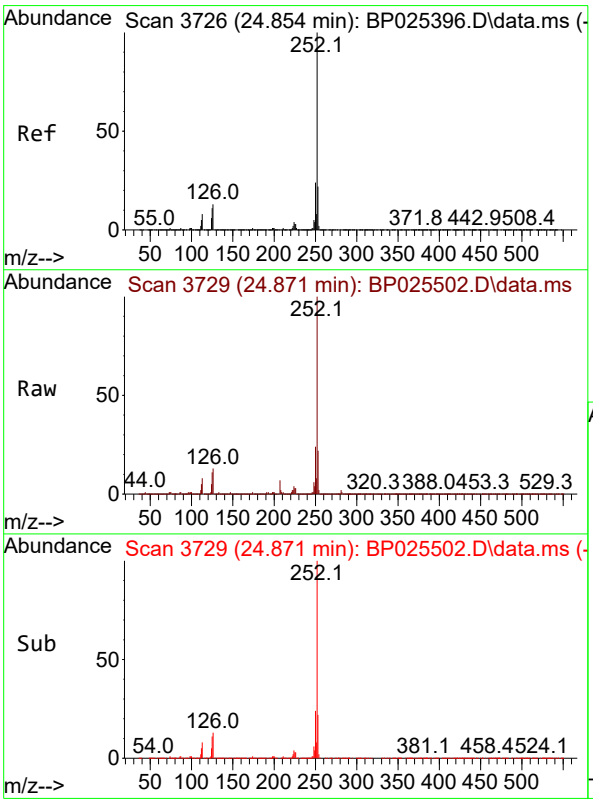
Reviewed By :Rahul Chavli 08/20/2025
Supervised By :Jagrut Upadhyay 08/21/2025

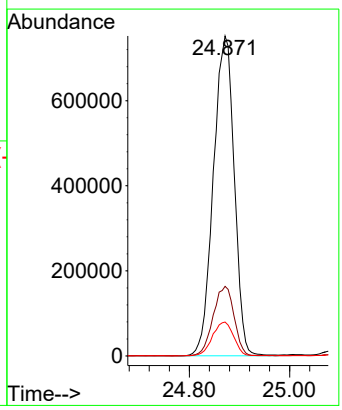


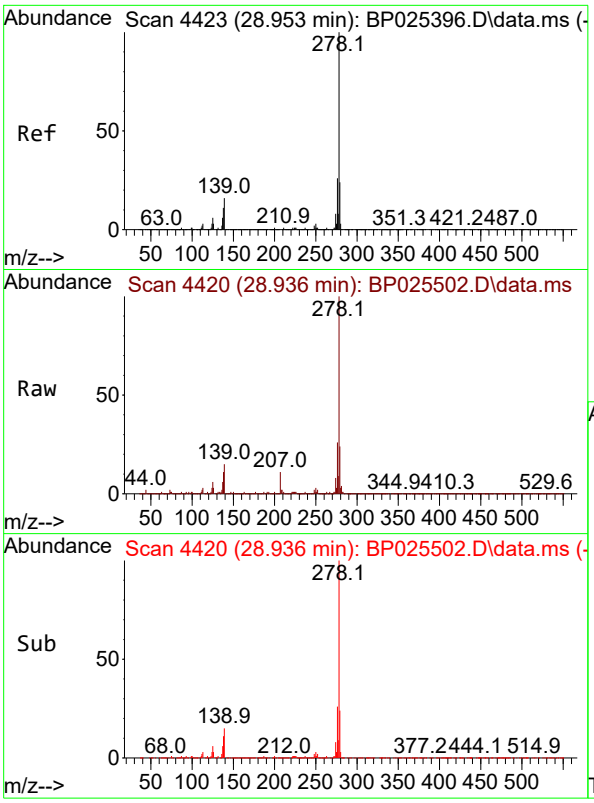


#90
Benzo(a)pyrene
Concen: 39.490 ng
RT: 24.871 min Scan# 3729
Delta R.T. 0.018 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:252 Resp: 2174497

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.5	26.3
125	10.6	8.7	13.1

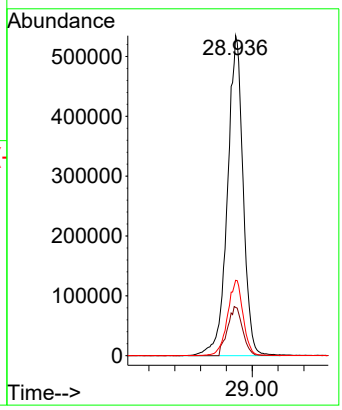




#91
Dibenzo(a,h)anthracene
Concen: 39.346 ng
RT: 28.936 min Scan# 4
Delta R.T. -0.018 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:278 Resp: 226208

Ion	Ratio	Lower	Upper
278	100		
139	15.1	13.0	19.4
279	23.5	19.4	29.2



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Manual Integrations
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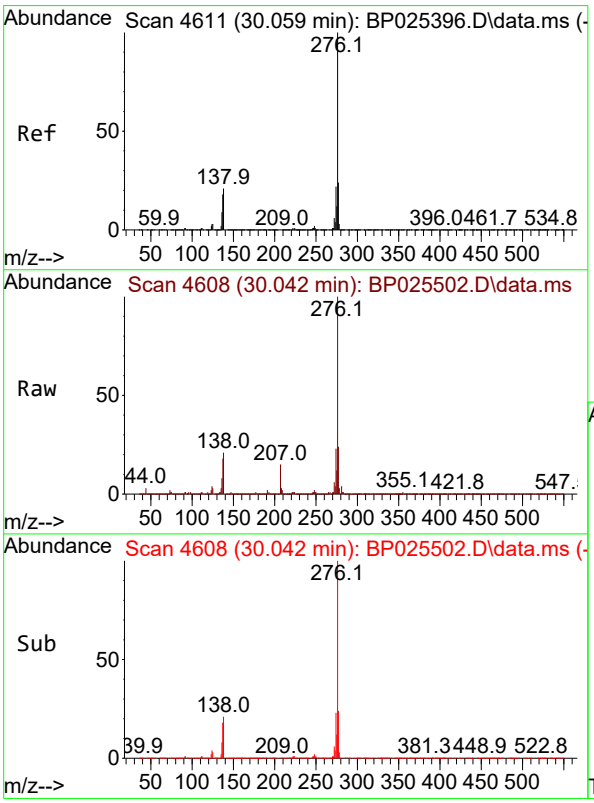
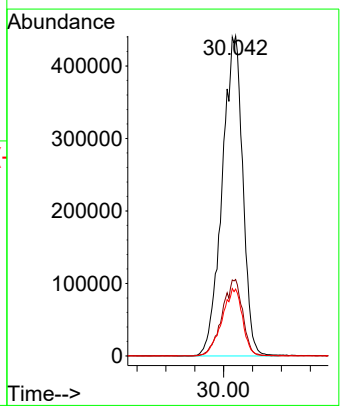
Reviewed By :Rahul Chavli 08/20/2025
Supervised By :Jagrut Upadhyay 08/21/2025



#92
Benzo(g,h,i)perylene
Concen: 38.659 ng
RT: 30.042 min Scan# 4608
Delta R.T. -0.018 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:276 Resp: 2184778

Ion	Ratio	Lower	Upper
276	100		
277	23.9	19.4	29.0
138	20.9	16.7	25.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081925\
Data File : BP025502.D
Acq On : 20 Aug 2025 10:41
Operator : CG/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 33 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: Aug 20 11:50:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 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	94	-0.01
2		1,4-Dioxane	0.472	0.487	-3.2	103	0.00
3		Pyridine	1.291	1.302	-0.9	100	0.00
4		n-Nitrosodimethylamine	0.532	0.577	-8.5	106	0.00
5	S	2-Fluorophenol	1.204	1.219	-1.2	98	0.00
6		Aniline	2.080	2.090	-0.5	97	0.00
7	S	Phenol-d6	1.544	1.572	-1.8	97	0.00
8		2-Chlorophenol	1.359	1.359	0.0	97	0.00
9		Benzaldehyde	1.082	0.644	40.5#	44#	0.00
10	C	Phenol	1.620	1.653	-2.0	98	0.00
11		bis(2-Chloroethyl)ether	1.263	1.267	-0.3	97	0.00
12		1,3-Dichlorobenzene	1.499	1.494	0.3	97	0.00
13	C	1,4-Dichlorobenzene	1.532	1.540	-0.5	98	-0.01
14		1,2-Dichlorobenzene	1.483	1.480	0.2	97	0.00
15		Benzyl Alcohol	1.227	1.247	-1.6	98	0.00
16		2,2'-oxybis(1-Chloropropane	1.692	1.764	-4.3	102	0.00
17		2-Methylphenol	1.125	1.140	-1.3	96	0.00
18		Hexachloroethane	0.563	0.577	-2.5	99	0.00
19	P	n-Nitroso-di-n-propylamine	1.023	1.028	-0.5	97	0.00
20		3+4-Methylphenols	1.560	1.551	0.6	95	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	93	0.00
22		Acetophenone	0.502	0.501	0.2	96	0.00
23	S	Nitrobenzene-d5	0.395	0.403	-2.0	98	0.00
24		Nitrobenzene	0.353	0.356	-0.8	96	0.00
25		Isophorone	0.700	0.700	0.0	97	0.00
26	C	2-Nitrophenol	0.181	0.180	0.6	93	0.00
27		2,4-Dimethylphenol	0.312	0.312	0.0	94	0.00
28		bis(2-Chloroethoxy)methane	0.423	0.417	1.4	95	0.00
29	C	2,4-Dichlorophenol	0.310	0.314	-1.3	96	0.00
30		1,2,4-Trichlorobenzene	0.340	0.330	2.9	94	0.00
31		Naphthalene	1.040	1.013	2.6	94	0.00
32		Benzoic acid	0.230	0.230	0.0	94	0.00
33		4-Chloroaniline	0.459	0.455	0.9	94	0.00
34	C	Hexachlorobutadiene	0.211	0.211	0.0	96	0.00
35		Caprolactam	0.114	0.110	3.5	94	0.00
36	C	4-Chloro-3-methylphenol	0.355	0.357	-0.6	96	0.00
37		2-Methylnaphthalene	0.676	0.655	3.1	93	0.00
38		1-Methylnaphthalene	0.719	0.689	4.2	94	0.00
39	I	Acenaphthene-d10	1.000	1.000	0.0	91	0.00
40		1,2,4,5-Tetrachlorobenzene	0.578	0.586	-1.4	95	0.00
41	P	Hexachlorocyclopentadiene	0.349	0.364	-4.3	95	0.00
42	S	2,4,6-Tribromophenol	0.269	0.271	-0.7	94	0.00
43	C	2,4,6-Trichlorophenol	0.390	0.399	-2.3	95	0.00
44		2,4,5-Trichlorophenol	0.427	0.438	-2.6	94	0.00
45	S	2-Fluorobiphenyl	1.463	1.455	0.5	95	0.00
46		1,1'-Biphenyl	1.453	1.441	0.8	93	0.00
47		2-Chloronaphthalene	1.131	1.125	0.5	93	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081925\
Data File : BP025502.D
Acq On : 20 Aug 2025 10:41
Operator : CG/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 33 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: Aug 20 11:50:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 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	0.329	0.352	-7.0	97	0.00
49		Acenaphthylene	1.871	1.865	0.3	94	0.00
50		Dimethylphthalate	1.465	1.455	0.7	94	0.00
51		2,6-Dinitrotoluene	0.309	0.317	-2.6	93	0.00
52	C	Acenaphthene	1.098	1.090	0.7	95	0.01
53		3-Nitroaniline	0.347	0.356	-2.6	95	0.00
54	P	2,4-Dinitrophenol	0.165	0.178	-7.9	99	0.00
55		Dibenzofuran	1.736	1.703	1.9	92	0.00
56	P	4-Nitrophenol	0.285	0.289	-1.4	94	0.00
57		2,4-Dinitrotoluene	0.440	0.456	-3.6	95	0.00
58		Fluorene	1.370	1.316	3.9	91	0.00
59		2,3,4,6-Tetrachlorophenol	0.377	0.383	-1.6	94	0.00
60		Diethylphthalate	1.488	1.507	-1.3	95	0.00
61		4-Chlorophenyl-phenylether	0.681	0.663	2.6	92	0.00
62		4-Nitroaniline	0.356	0.361	-1.4	93	0.00
63		Azobenzene	1.274	1.344	-5.5	99	0.01
64	I	Phenanthrene-d10	1.000	1.000	0.0	90	0.00
65		4,6-Dinitro-2-methylphenol	0.125	0.131	-4.8	96	0.00
66	c	n-Nitrosodiphenylamine	0.610	0.612	-0.3	93	0.00
67		4-Bromophenyl-phenylether	0.220	0.221	-0.5	93	0.00
68		Hexachlorobenzene	0.255	0.254	0.4	94	0.00
69		Atrazine	0.228	0.229	-0.4	94	0.00
70	C	Pentachlorophenol	0.161	0.171	-6.2	97	0.00
71		Phenanthrene	1.099	1.073	2.4	93	0.00
72		Anthracene	1.122	1.104	1.6	92	0.00
73		Carbazole	1.057	1.038	1.8	93	0.00
74		Di-n-butylphthalate	1.300	1.312	-0.9	95	0.00
75	C	Fluoranthene	1.311	1.295	1.2	95	0.00
76	I	Chrysene-d12	1.000	1.000	0.0	96	0.00
77		Benzidine	0.683	0.561	17.9	56	0.00
78		Pyrene	1.300	1.234	5.1	93	0.00
79	S	Terphenyl-d14	1.093	1.063	2.7	97	0.01
80		Butylbenzylphthalate	0.589	0.598	-1.5	99	0.00
81		Benzo(a)anthracene	1.319	1.290	2.2	97	0.00
82		3,3'-Dichlorobenzidine	0.497	0.488	1.8	96	0.00
83		Chrysene	1.235	1.218	1.4	99	0.00
84		Bis(2-ethylhexyl)phthalate	0.867	0.889	-2.5	102	-0.01
85	c	Di-n-octyl phthalate	1.492	1.539	-3.2	102	0.00
86	I	Perylene-d12	1.000	1.000	0.0	94	-0.01
87		Indeno(1,2,3-cd)pyrene	1.467	1.427	2.7	95	-0.02
88		Benzo(b)fluoranthene	1.179	1.173	0.5	97	0.00
89		Benzo(k)fluoranthene	1.180	1.196	-1.4	99	0.00
90	C	Benzo(a)pyrene	1.148	1.133	1.3	96	0.02
91		Dibenzo(a,h)anthracene	1.199	1.179	1.7	96	-0.02
92		Benzo(g,h,i)perylene	1.178	1.139	3.3	94	-0.02

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081925\
Data File : BP025502.D
Acq On : 20 Aug 2025 10:41
Operator : CG/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 33 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: Aug 20 11:50:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration

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

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081925\
Data File : BP025502.D
Acq On : 20 Aug 2025 10:41
Operator : CG/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 33 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: Aug 20 11:50:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 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	94	-0.01
2		1,4-Dioxane	40.000	41.329	-3.3	103	0.00
3		Pyridine	40.000	40.337	-0.8	100	0.00
4		n-Nitrosodimethylamine	40.000	43.372	-8.4	106	0.00
5	S	2-Fluorophenol	80.000	80.973	-1.2	98	0.00
6		Aniline	40.000	40.190	-0.5	97	0.00
7	S	Phenol-d6	80.000	81.437	-1.8	97	0.00
8		2-Chlorophenol	40.000	40.005	-0.0	97	0.00
9		Benzaldehyde	40.000	23.826	40.4#	44	0.00
10	C	Phenol	40.000	40.802	-2.0	98	0.00
11		bis(2-Chloroethyl)ether	40.000	40.129	-0.3	97	0.00
12		1,3-Dichlorobenzene	40.000	39.880	0.3	97	0.00
13	C	1,4-Dichlorobenzene	40.000	40.220	-0.5	98	-0.01
14		1,2-Dichlorobenzene	40.000	39.931	0.2	97	0.00
15		Benzyl Alcohol	40.000	40.652	-1.6	98	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	41.700	-4.3	102	0.00
17		2-Methylphenol	40.000	40.522	-1.3	96	0.00
18		Hexachloroethane	40.000	41.003	-2.5	99	0.00
19	P	n-Nitroso-di-n-propylamine	40.000	40.216	-0.5	97	0.00
20		3+4-Methylphenols	40.000	39.780	0.5	95	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	93	0.00
22		Acetophenone	40.000	39.991	0.0	96	0.00
23	S	Nitrobenzene-d5	80.000	81.592	-2.0	98	0.00
24		Nitrobenzene	40.000	40.309	-0.8	96	0.00
25		Isophorone	40.000	40.003	-0.0	97	0.00
26	C	2-Nitrophenol	40.000	39.808	0.5	93	0.00
27		2,4-Dimethylphenol	40.000	39.968	0.1	94	0.00
28		bis(2-Chloroethoxy)methane	40.000	39.468	1.3	95	0.00
29	C	2,4-Dichlorophenol	40.000	40.533	-1.3	96	0.00
30		1,2,4-Trichlorobenzene	40.000	38.887	2.8	94	0.00
31		Naphthalene	40.000	38.998	2.5	94	0.00
32		Benzoic acid	40.000	39.948	0.1	94	0.00
33		4-Chloroaniline	40.000	39.605	1.0	94	0.00
34	C	Hexachlorobutadiene	40.000	39.951	0.1	96	0.00
35		Caprolactam	40.000	38.776	3.1	94	0.00
36	C	4-Chloro-3-methylphenol	40.000	40.195	-0.5	96	0.00
37		2-Methylnaphthalene	40.000	38.714	3.2	93	0.00
38		1-Methylnaphthalene	40.000	38.296	4.3	94	0.00
39	I	Acenaphthene-d10	20.000	20.000	0.0	91	0.00
40		1,2,4,5-Tetrachlorobenzene	40.000	40.579	-1.4	95	0.00
41	P	Hexachlorocyclopentadiene	40.000	41.746	-4.4	95	0.00
42	S	2,4,6-Tribromophenol	80.000	80.580	-0.7	94	0.00
43	C	2,4,6-Trichlorophenol	40.000	40.907	-2.3	95	0.00
44		2,4,5-Trichlorophenol	40.000	41.026	-2.6	94	0.00
45	S	2-Fluorobiphenyl	80.000	79.531	0.6	95	0.00
46		1,1'-Biphenyl	40.000	39.678	0.8	93	0.00
47		2-Chloronaphthalene	40.000	39.783	0.5	93	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081925\
Data File : BP025502.D
Acq On : 20 Aug 2025 10:41
Operator : CG/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 33 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: Aug 20 11:50:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 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	42.727	-6.8	97	0.00
49		Acenaphthylene	40.000	39.860	0.4	94	0.00
50		Dimethylphthalate	40.000	39.744	0.6	94	0.00
51		2,6-Dinitrotoluene	40.000	41.073	-2.7	93	0.00
52	C	Acenaphthene	40.000	39.710	0.7	95	0.01
53		3-Nitroaniline	40.000	41.043	-2.6	95	0.00
54	P	2,4-Dinitrophenol	40.000	43.128	-7.8	99	0.00
55		Dibenzofuran	40.000	39.226	1.9	92	0.00
56	P	4-Nitrophenol	40.000	40.538	-1.3	94	0.00
57		2,4-Dinitrotoluene	40.000	41.459	-3.6	95	0.00
58		Fluorene	40.000	38.412	4.0	91	0.00
59		2,3,4,6-Tetrachlorophenol	40.000	40.574	-1.4	94	0.00
60		Diethylphthalate	40.000	40.513	-1.3	95	0.00
61		4-Chlorophenyl-phenylether	40.000	38.934	2.7	92	0.00
62		4-Nitroaniline	40.000	40.530	-1.3	93	0.00
63		Azobenzene	40.000	42.199	-5.5	99	0.01
64	I	Phenanthrene-d10	20.000	20.000	0.0	90	0.00
65		4,6-Dinitro-2-methylphenol	40.000	41.917	-4.8	96	0.00
66	c	n-Nitrosodiphenylamine	40.000	40.171	-0.4	93	0.00
67		4-Bromophenyl-phenylether	40.000	40.268	-0.7	93	0.00
68		Hexachlorobenzene	40.000	39.919	0.2	94	0.00
69		Atrazine	40.000	40.186	-0.5	94	0.00
70	C	Pentachlorophenol	40.000	42.449	-6.1	97	0.00
71		Phenanthrene	40.000	39.064	2.3	93	0.00
72		Anthracene	40.000	39.365	1.6	92	0.00
73		Carbazole	40.000	39.300	1.8	93	0.00
74		Di-n-butylphthalate	40.000	40.373	-0.9	95	0.00
75	C	Fluoranthene	40.000	39.528	1.2	95	0.00
76	I	Chrysene-d12	20.000	20.000	0.0	96	0.00
77		Benzidine	40.000	32.893	17.8	56	0.00
78		Pyrene	40.000	37.983	5.0	93	0.00
79	S	Terphenyl-d14	80.000	77.772	2.8	97	0.01
80		Butylbenzylphthalate	40.000	40.617	-1.5	99	0.00
81		Benzo(a)anthracene	40.000	39.128	2.2	97	0.00
82		3,3'-Dichlorobenzidine	40.000	39.295	1.8	96	0.00
83		Chrysene	40.000	39.434	1.4	99	0.00
84		Bis(2-ethylhexyl)phthalate	40.000	41.001	-2.5	102	-0.01
85	c	Di-n-octyl phthalate	40.000	41.280	-3.2	102	0.00
86	I	Perylene-d12	20.000	20.000	0.0	94	-0.01
87		Indeno(1,2,3-cd)pyrene	40.000	38.904	2.7	95	-0.02
88		Benzo(b)fluoranthene	40.000	39.777	0.6	97	0.00
89		Benzo(k)fluoranthene	40.000	40.536	-1.3	99	0.00
90	C	Benzo(a)pyrene	40.000	39.490	1.3	96	0.02
91		Dibenzo(a,h)anthracene	40.000	39.346	1.6	96	-0.02
92		Benzo(g,h,i)perylene	40.000	38.659	3.4	94	-0.02

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081925\
Data File : BP025502.D
Acq On : 20 Aug 2025 10:41
Operator : CG/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 33 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: Aug 20 11:50:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration

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

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

(#) = Out of Range SPCC's out = 0 CCC's out = 0

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: FIRS02

Lab Code: ACE SDG No.: Q2819

Instrument ID: BNA_P Calibration Date/Time: 08/20/2025 18:27

Lab File ID: BP025512.D Init. Calib. Date(s): 08/14/2025 08/14/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 12:33 17:24

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.204	1.232		2.3	
Benzaldehyde	1.082	1.279		18.2	
Phenol-d6	1.544	1.491		-3.4	
Phenol	1.620	1.535		-5.2	20.0
bis(2-Chloroethyl)ether	1.263	1.201		-4.9	
2-Chlorophenol	1.359	1.324		-2.6	
2-Methylphenol	1.125	1.059		-5.9	
2,2-oxybis(1-Chloropropane)	1.692	1.647		-2.7	
Acetophenone	0.502	0.508		1.2	
3+4-Methylphenols	1.560	1.396		-10.5	
n-Nitroso-di-n-propylamine	1.023	0.895	0.050	-12.5	
Nitrobenzene-d5	0.395	0.409		3.5	
Hexachloroethane	0.563	0.578		2.7	
Nitrobenzene	0.353	0.367		4.0	
Isophorone	0.700	0.664		-5.1	
2-Nitrophenol	0.181	0.188		3.9	20.0
2,4-Dimethylphenol	0.312	0.308		-1.3	
bis(2-Chloroethoxy)methane	0.423	0.413		-2.4	
2,4-Dichlorophenol	0.310	0.310		0.0	20.0
Naphthalene	1.040	1.033		-0.7	
4-Chloroaniline	0.459	0.429		-6.5	
Hexachlorobutadiene	0.211	0.225		6.6	20.0
Caprolactam	0.114	0.092		-19.3	
4-Chloro-3-methylphenol	0.355	0.324		-8.7	20.0
2-Methylnaphthalene	0.676	0.633		-6.4	
Hexachlorocyclopentadiene	0.349	0.359	0.050	2.9	
2,4,6-Trichlorophenol	0.390	0.414		6.2	20.0
2-Fluorobiphenyl	1.463	1.526		4.3	
2,4,5-Trichlorophenol	0.427	0.446		4.4	
1,1-Biphenyl	1.453	1.507		3.7	
2-Chloronaphthalene	1.131	1.165		3.0	
2-Nitroaniline	0.329	0.343		4.3	
Dimethylphthalate	1.465	1.399		-4.5	
Acenaphthylene	1.871	1.871		0.0	
2,6-Dinitrotoluene	0.309	0.313		1.3	
3-Nitroaniline	0.347	0.329		-5.2	
Acenaphthene	1.098	1.086		-1.1	20.0
2,4-Dinitrophenol	0.165	0.172	0.050	4.2	
4-Nitrophenol	0.285	0.266	0.050	-6.7	

Form VII SV-1

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: Alliance Contract: FIRS02

Lab Code: ACE SDG No.: Q2819

Instrument ID: BNA_P Calibration Date/Time: 08/20/2025 18:27

Lab File ID: BP025512.D Init. Calib. Date(s): 08/14/2025 08/14/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 12:33 17:24

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.736	1.703		-1.9	
2,4-Dinitrotoluene	0.440	0.429		-2.5	
Diethylphthalate	1.488	1.402		-5.8	
4-Chlorophenyl-phenylether	0.681	0.651		-4.4	
Fluorene	1.370	1.306		-4.7	
4-Nitroaniline	0.356	0.332		-6.7	
4,6-Dinitro-2-methylphenol	0.125	0.127		1.6	
n-Nitrosodiphenylamine	0.610	0.609		-0.2	20.0
2,4,6-Tribromophenol	0.269	0.257		-4.5	
4-Bromophenyl-phenylether	0.220	0.224		1.8	
Hexachlorobenzene	0.255	0.256		0.4	
Atrazine	0.228	0.221		-3.1	
Pentachlorophenol	0.161	0.167		3.7	20.0
Phenanthrene	1.099	1.085		-1.3	
Anthracene	1.122	1.084		-3.4	
Carbazole	1.057	1.022		-3.3	
Di-n-butylphthalate	1.300	1.314		1.1	
Fluoranthene	1.311	1.267		-3.4	20.0
Pyrene	1.300	1.220		-6.2	
Terphenyl-d14	1.093	1.021		-6.6	
Butylbenzylphthalate	0.589	0.600		1.9	
3,3-Dichlorobenzidine	0.497	0.503		1.2	
Benzo(a)anthracene	1.319	1.279		-3.0	
Chrysene	1.235	1.213		-1.8	
Bis(2-ethylhexyl)phthalate	0.867	0.895		3.2	
Di-n-octyl phthalate	1.492	1.648		10.5	20.0
Benzo(b)fluoranthene	1.179	1.121		-4.9	
Benzo(k)fluoranthene	1.180	1.119		-5.2	
Benzo(a)pyrene	1.148	1.115		-2.9	20.0
Indeno(1,2,3-cd)pyrene	1.467	1.484		1.2	
Dibenzo(a,h)anthracene	1.199	1.220		1.8	
Benzo(g,h,i)perylene	1.178	1.213		3.0	
1,2,4,5-Tetrachlorobenzene	0.578	0.626		8.3	
1,4-Dioxane	0.472	0.489		3.6	20.0
2,3,4,6-Tetrachlorophenol	0.377	0.372		-1.3	

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025512.D
Acq On : 20 Aug 2025 18:27
Operator : CG/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Quant Time: Aug 21 01:35:49 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.790	152	166180	20.000	ng	0.00
21) Naphthalene-d8	10.554	136	619421	20.000	ng	0.00
39) Acenaphthene-d10	14.395	164	355189	20.000	ng	-0.01
64) Phenanthrene-d10	17.201	188	670328	20.000	ng	0.00
76) Chrysene-d12	21.648	240	721835	20.000	ng	0.00
86) Perylene-d12	25.030	264	911460	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.402	112	819056	81.851	ng	0.00
7) Phenol-d6	6.966	99	990921	77.239	ng	0.00
23) Nitrobenzene-d5	8.925	82	1014236	82.828	ng	-0.01
42) 2,4,6-Tribromophenol	15.907	330	365485	76.447	ng	0.00
45) 2-Fluorobiphenyl	13.013	172	2168370	83.434	ng	0.00
79) Terphenyl-d14	19.919	244	2948745	74.739	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.331	88	162482	41.454	ng	99
3) Pyridine	3.731	79	413008	38.497	ng	98
4) n-Nitrosodimethylamine	3.637	42	189578	42.863	ng	97
6) Aniline	7.119	93	652984	37.776	ng	98
8) 2-Chlorophenol	7.361	128	440061	38.971	ng	98
9) Benzaldehyde	6.937	77	425209	47.306	ng	95
10) Phenol	6.996	94	510256	37.903	ng	98
11) bis(2-Chloroethyl)ether	7.213	93	399309	38.056	ng	98
12) 1,3-Dichlorobenzene	7.678	146	499346	40.104	ng	98
13) 1,4-Dichlorobenzene	7.819	146	504357	39.630	ng	99
14) 1,2-Dichlorobenzene	8.137	146	478303	38.825	ng	97
15) Benzyl Alcohol	8.025	79	376366	36.921	ng	99
16) 2,2'-oxybis(1-Chloropr...	8.313	45	547414	38.945	ng	100
17) 2-Methylphenol	8.225	107	352050	37.654	ng	99
18) Hexachloroethane	8.860	117	192071	41.047	ng	93
19) n-Nitroso-di-n-propyla...	8.578	70	297628	35.024	ng	97
20) 3+4-Methylphenols	8.543	107	463927	35.797	ng	99
22) Acetophenone	8.596	105	629950	40.553	ng	99
24) Nitrobenzene	8.972	77	454821	41.561	ng	98
25) Isophorone	9.496	82	822867	37.972	ng	99
26) 2-Nitrophenol	9.672	139	233161	41.515	ng	96
27) 2,4-Dimethylphenol	9.737	122	381587	39.508	ng	95
28) bis(2-Chloroethoxy)met...	9.966	93	511989	39.085	ng	99
29) 2,4-Dichlorophenol	10.207	162	384438	40.068	ng	98
30) 1,2,4-Trichlorobenzene	10.419	180	428971	40.786	ng	99
31) Naphthalene	10.607	128	1279654	39.747	ng	99
32) Benzoic acid	9.866	122	261847	36.722	ng	97
33) 4-Chloroaniline	10.707	127	531205	37.353	ng	98
34) Hexachlorobutadiene	10.896	225	278633	42.538	ng	99
35) Caprolactam	11.490	113	114461	32.534	ng	96
36) 4-Chloro-3-methylphenol	11.837	107	401963	36.511	ng	99
37) 2-Methylnaphthalene	12.213	142	783727	37.407	ng	99
38) 1-Methylnaphthalene	12.431	142	822994	36.937	ng	99
40) 1,2,4,5-Tetrachloroben...	12.584	216	444699	43.350	ng	99
41) Hexachlorocyclopentadiene	12.566	237	255262	41.195	ng	99
43) 2,4,6-Trichlorophenol	12.825	196	293959	42.446	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025512.D
Acq On : 20 Aug 2025 18:27
Operator : CG/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Quant Time: Aug 21 01:35:49 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration

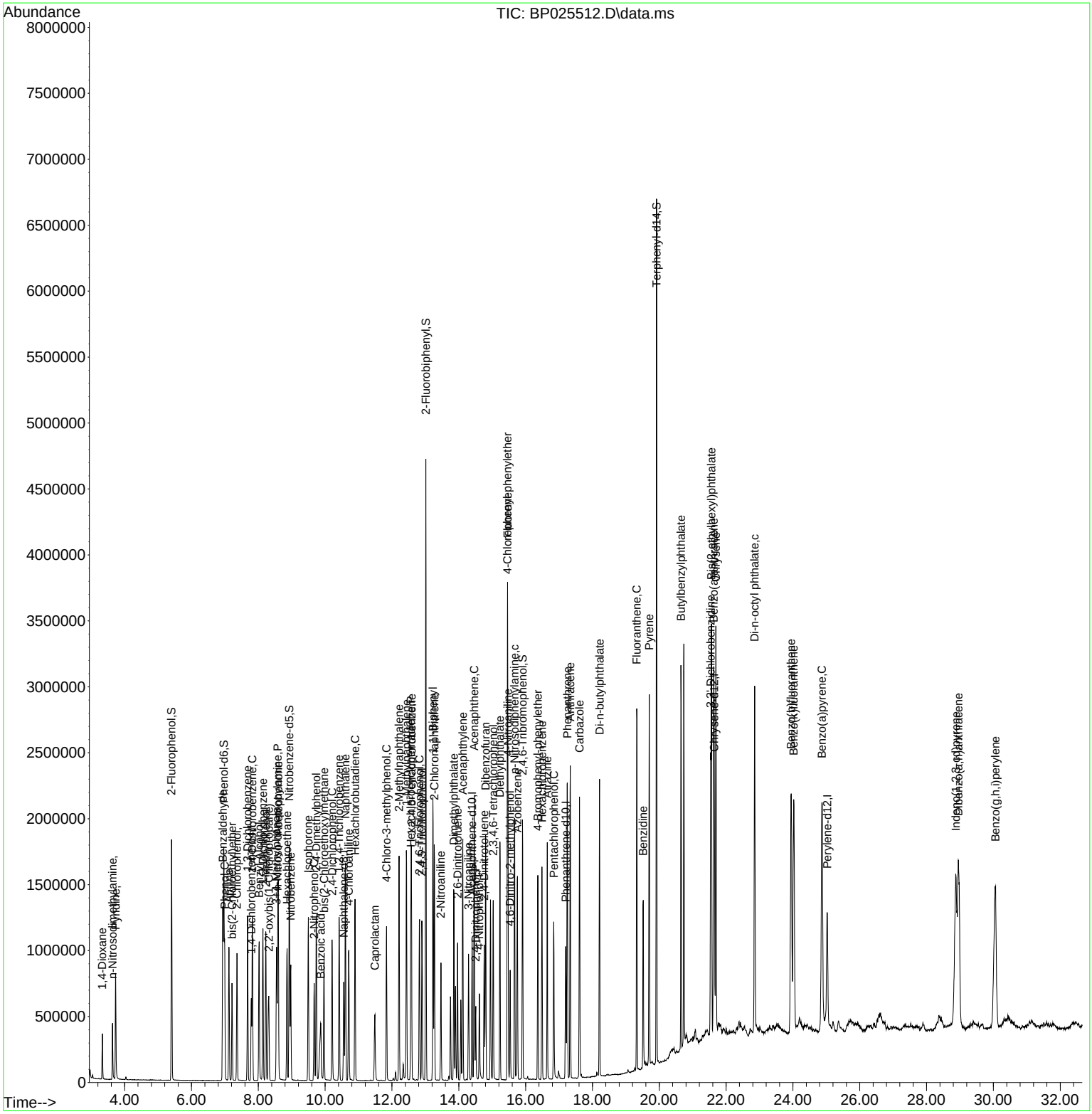
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.896	196	316844	41.744	ng	99
46) 1,1'-Biphenyl	13.225	154	1070736	41.508	ng	99
47) 2-Chloronaphthalene	13.266	162	827743	41.219	ng	100
48) 2-Nitroaniline	13.466	65	243579	41.628	ng	97
49) Acenaphthylene	14.119	152	1329242	40.001	ng	99
50) Dimethylphthalate	13.848	163	994069	38.219	ng	99
51) 2,6-Dinitrotoluene	13.966	165	222447	40.576	ng	98
52) Acenaphthene	14.460	154	771351	39.546	ng	99
53) 3-Nitroaniline	14.290	138	233840	37.912	ng	92
54) 2,4-Dinitrophenol	14.507	184	122042	41.686	ng	98
55) Dibenzofuran	14.801	168	1209507	39.221	ng	99
56) 4-Nitrophenol	14.613	139	188606	37.212	ng	94
57) 2,4-Dinitrotoluene	14.760	165	305079	39.004	ng	97
58) Fluorene	15.460	166	927874	38.132	ng	99
59) 2,3,4,6-Tetrachlorophenol	15.031	232	264092	39.405	ng	100
60) Diethylphthalate	15.231	149	996051	37.688	ng	99
61) 4-Chlorophenyl-phenyle...	15.454	204	462336	38.204	ng	97
62) 4-Nitroaniline	15.472	138	235988	37.321	ng	97
63) Azobenzene	15.754	77	890410	39.346	ng	98
65) 4,6-Dinitro-2-methylph...	15.537	198	170735	40.860	ng	94
66) n-Nitrosodiphenylamine	15.666	169	816452	39.942	ng	99
67) 4-Bromophenyl-phenylether	16.366	248	299821	40.668	ng	96
68) Hexachlorobenzene	16.489	284	343811	40.230	ng	97
69) Atrazine	16.648	200	296023	38.670	ng	98
70) Pentachlorophenol	16.842	266	223956	41.514	ng	98
71) Phenanthrene	17.248	178	1455152	39.517	ng	99
72) Anthracene	17.336	178	1452720	38.632	ng	100
73) Carbazole	17.613	167	1370739	38.700	ng	99
74) Di-n-butylphthalate	18.213	149	1762119	40.436	ng	99
75) Fluoranthene	19.325	202	1698750	38.675	ng	99
77) Benzidine	19.519	184	784158	31.831	ng	99
78) Pyrene	19.701	202	1760829	37.531	ng	99
80) Butylbenzylphthalate	20.648	149	866705	40.760	ng	99
81) Benzo(a)anthracene	21.630	228	1846325	38.784	ng	98
82) 3,3'-Dichlorobenzidine	21.536	252	726259	40.475	ng	99
83) Chrysene	21.695	228	1751270	39.282	ng	99
84) Bis(2-ethylhexyl)phtha...	21.560	149	1292335	41.288	ng	100
85) Di-n-octyl phthalate	22.854	149	2379874	44.204	ng	98
87) Indeno(1,2,3-cd)pyrene	28.877	276	2704805	40.465	ng	98
88) Benzo(b)fluoranthene	23.948	252	2043506	38.021	ng	100
89) Benzo(k)fluoranthene	24.024	252	2039061	37.913	ng	99
90) Benzo(a)pyrene	24.865	252	2033101	38.861	ng	99
91) Dibenzo(a,h)anthracene	28.953	278	2223603	40.707	ng	99
92) Benzo(g,h,i)perylene	30.065	276	2210310	41.164	ng	98

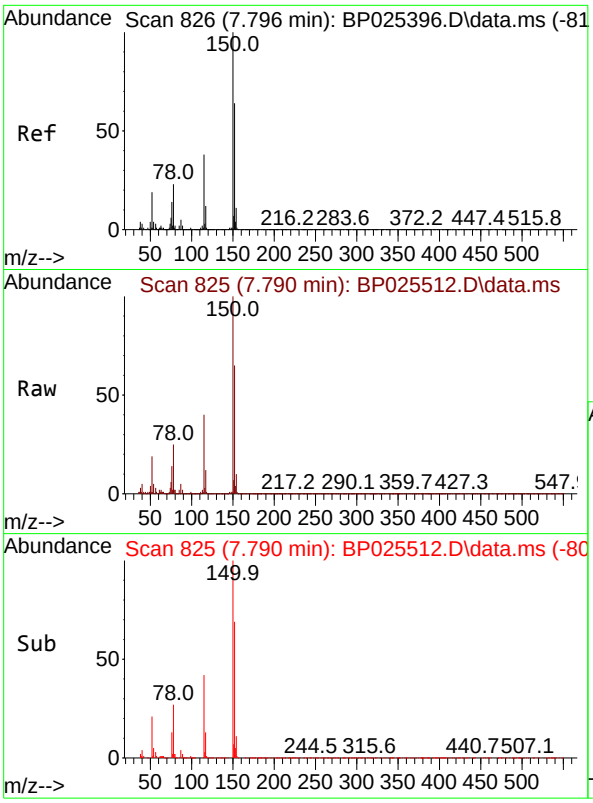
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025512.D
Acq On : 20 Aug 2025 18:27
Operator : CG/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Quant Time: Aug 21 01:35:49 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration



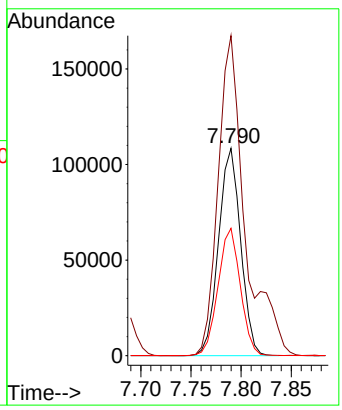


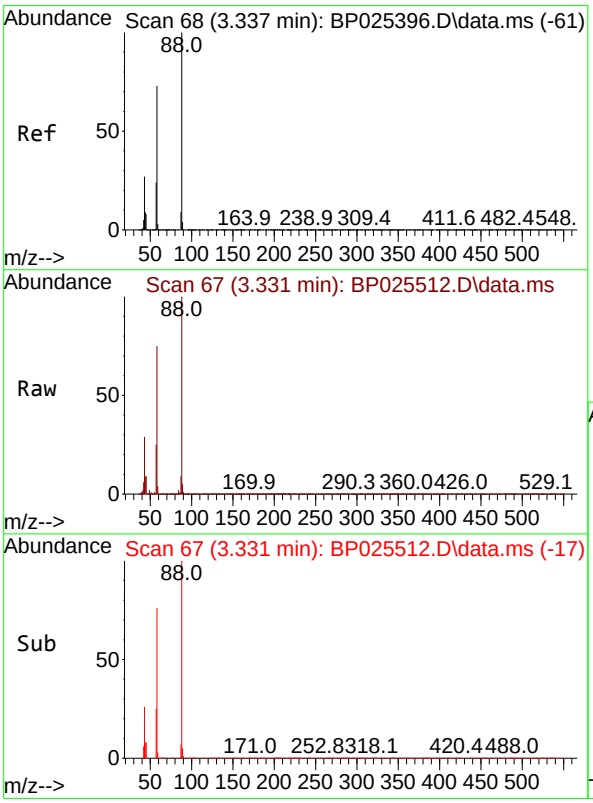
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.790 min Scan# 8
Delta R.T. -0.006 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:152 Resp: 166180

Ion	Ratio	Lower	Upper
152	100		
150	154.3	125.9	188.9
115	61.4	48.5	72.7

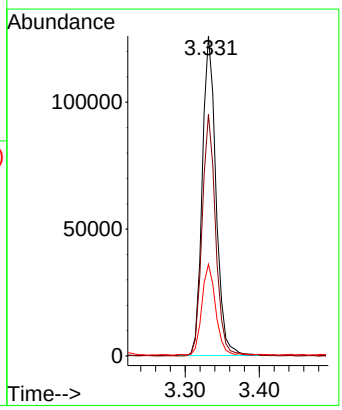


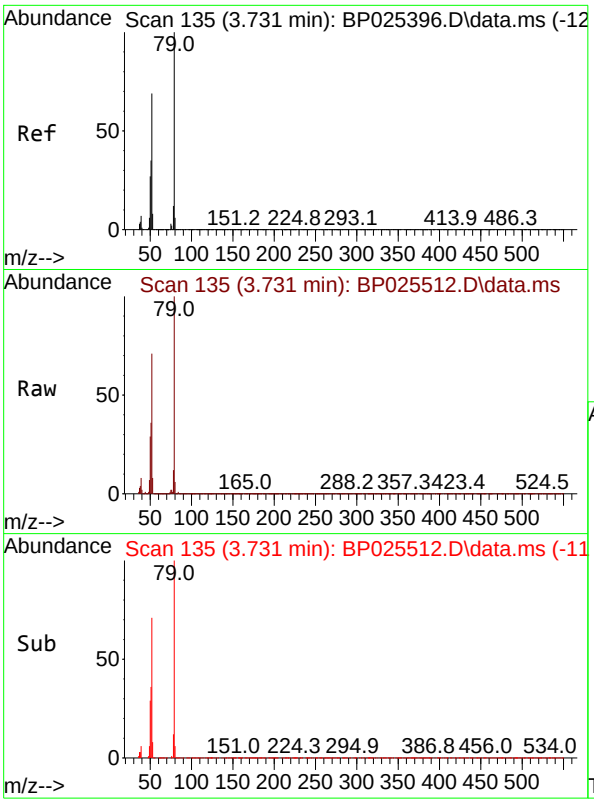


#2
1,4-Dioxane
Concen: 41.454 ng
RT: 3.331 min Scan# 67
Delta R.T. -0.006 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Tgt Ion: 88 Resp: 162482

Ion	Ratio	Lower	Upper
88	100		
58	74.5	59.2	88.8
43	28.7	21.7	32.5



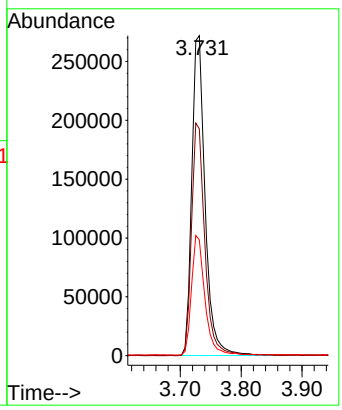


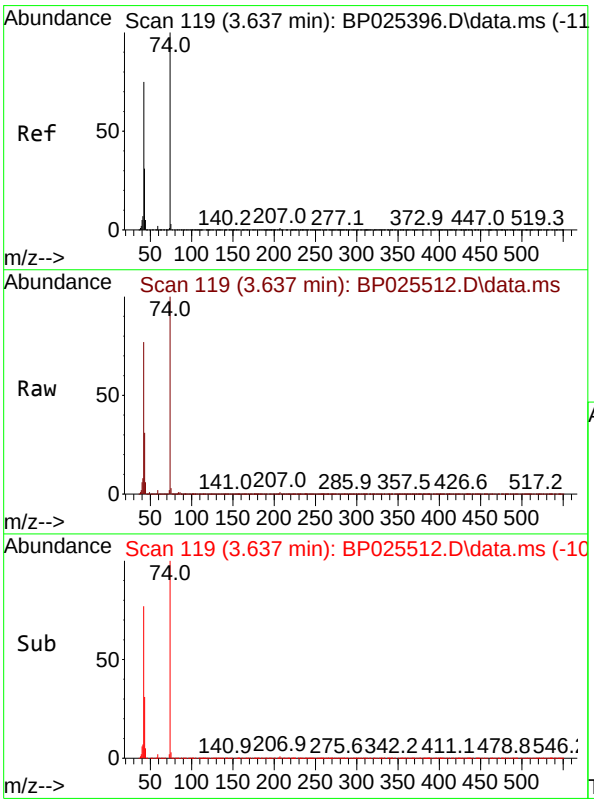
#3
Pyridine
Concen: 38.497 ng
RT: 3.731 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion: 79 Resp: 413008

Ion	Ratio	Lower	Upper
79	100		
52	70.9	55.5	83.3
51	36.2	28.3	42.5

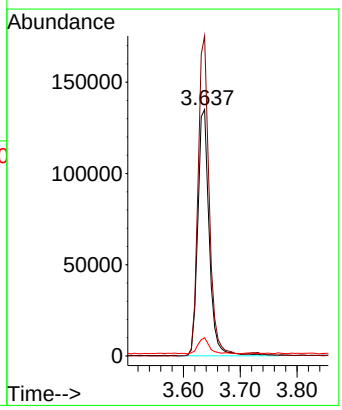


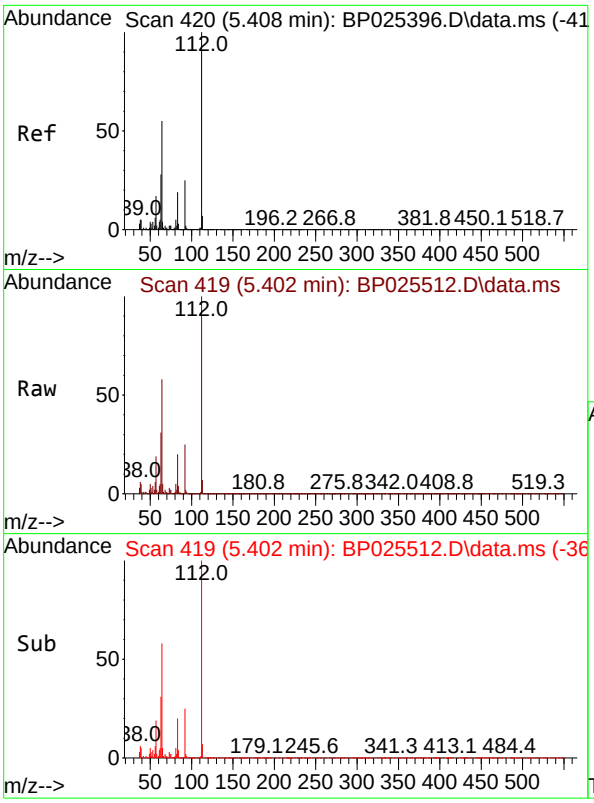


#4
n-Nitrosodimethylamine
Concen: 42.863 ng
RT: 3.637 min Scan# 119
Delta R.T. 0.000 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Tgt Ion: 42 Resp: 189578

Ion	Ratio	Lower	Upper
42	100		
74	129.9	107.0	160.4
44	7.4	6.2	9.4



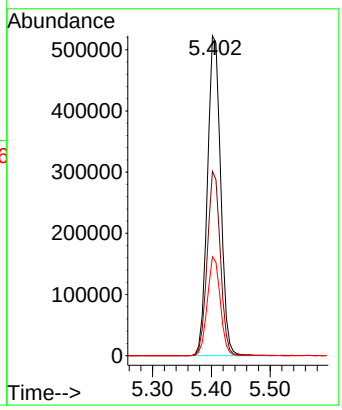


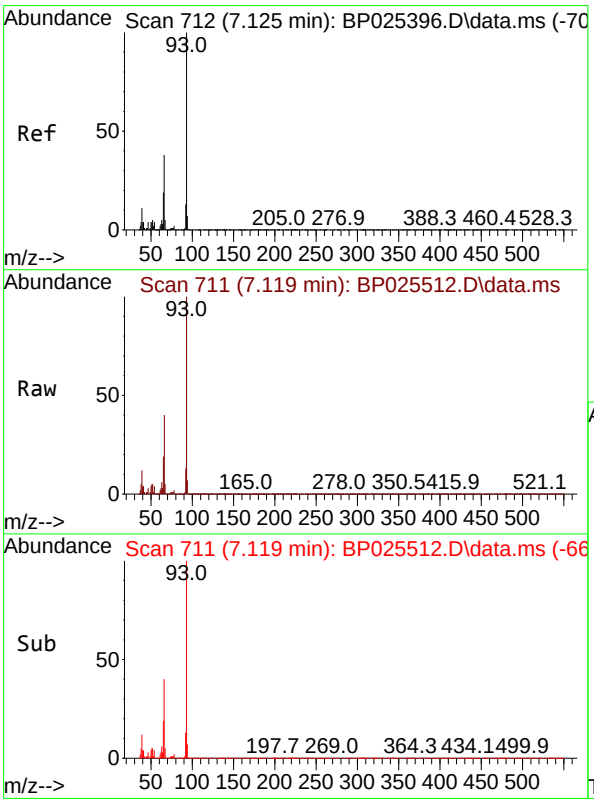
#5
2-Fluorophenol
Concen: 81.851 ng
RT: 5.402 min Scan# 41
Delta R.T. -0.006 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:112 Resp: 819056

Ion	Ratio	Lower	Upper
112	100		
64	57.6	43.8	65.8
63	30.9	22.7	34.1

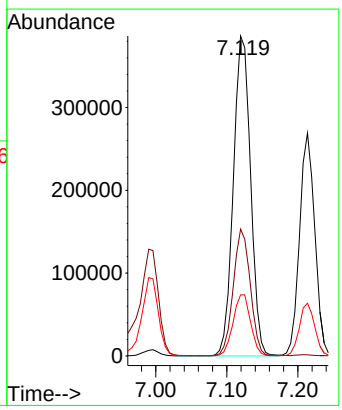


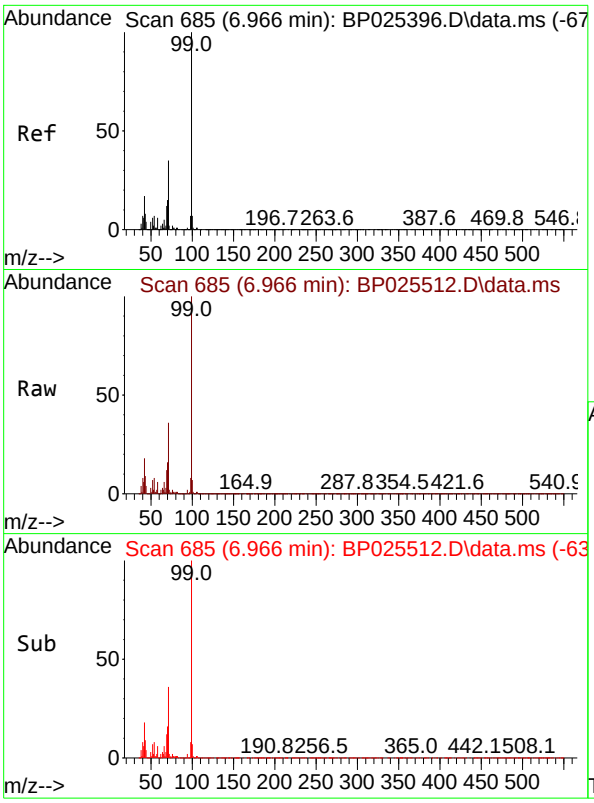


#6
Aniline
Concen: 37.776 ng
RT: 7.119 min Scan# 711
Delta R.T. -0.006 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Tgt Ion: 93 Resp: 652984

Ion	Ratio	Lower	Upper
93	100		
66	39.7	30.4	45.6
65	19.1	15.3	22.9



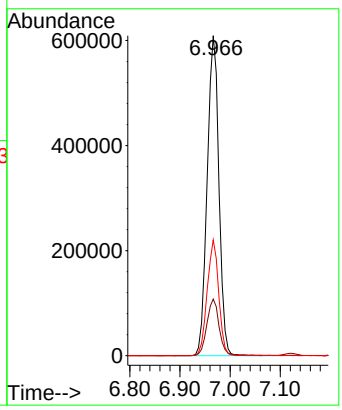


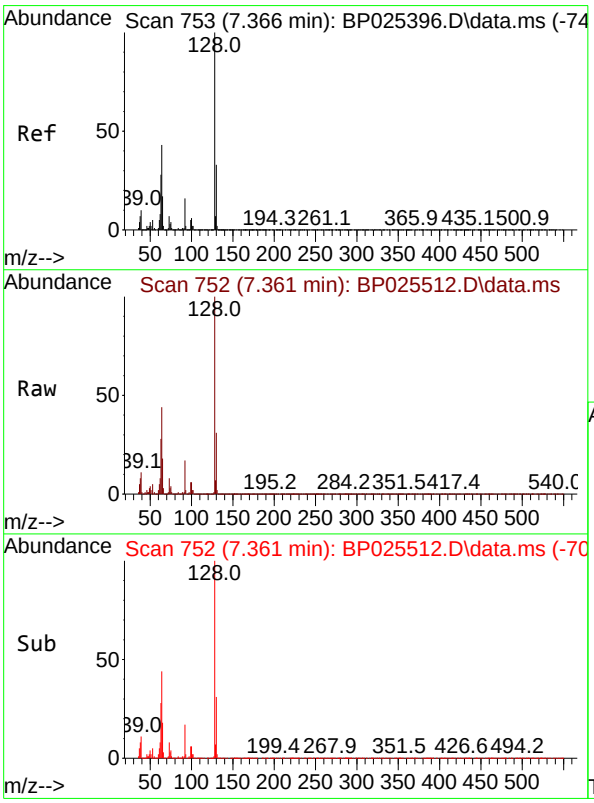
#7
Phenol-d6
Concen: 77.239 ng
RT: 6.966 min Scan# 6
Delta R.T. 0.000 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion: 99 Resp: 990921

Ion	Ratio	Lower	Upper
99	100		
42	17.7	13.7	20.5
71	36.2	28.2	42.4

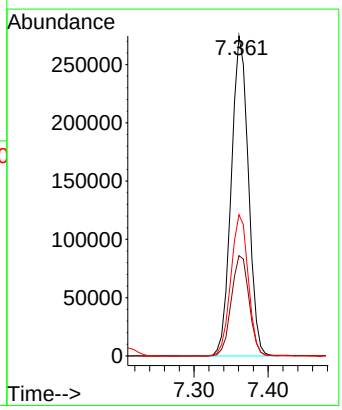


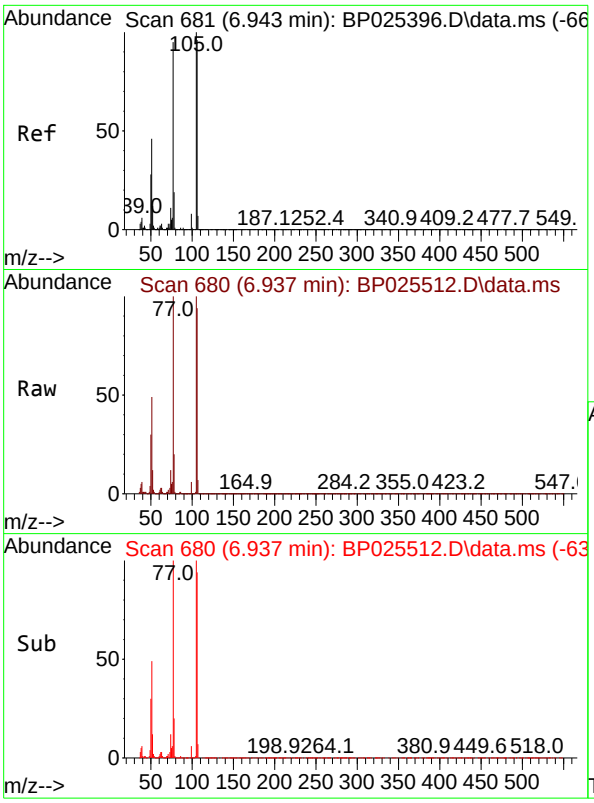


#8
2-Chlorophenol
Concen: 38.971 ng
RT: 7.361 min Scan# 752
Delta R.T. -0.006 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Tgt Ion:128 Resp: 440061

Ion	Ratio	Lower	Upper
128	100		
130	31.4	12.6	52.6
64	44.1	23.4	63.4



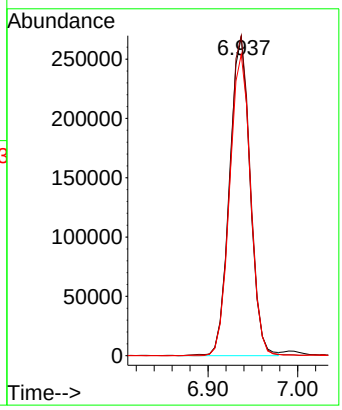


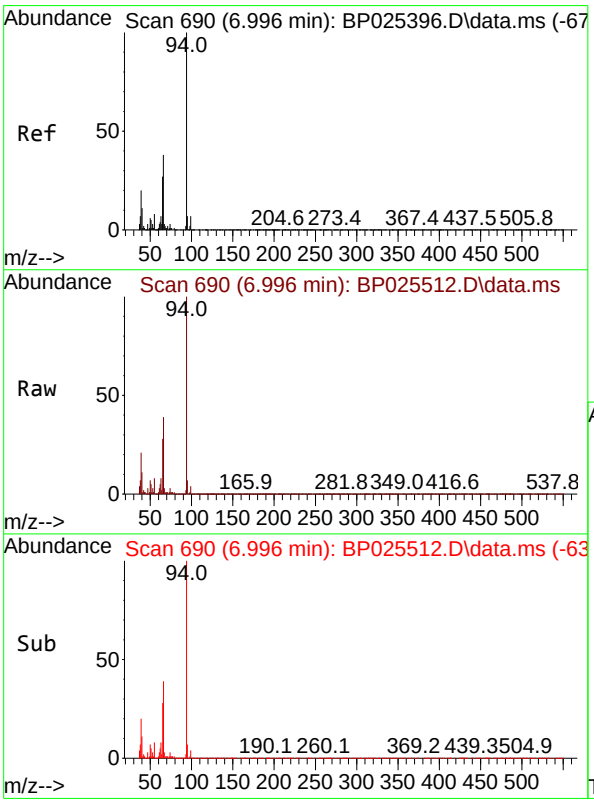
#9
Benzaldehyde
Concen: 47.306 ng
RT: 6.937 min Scan# 6
Delta R.T. -0.006 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion: 77 Resp: 425209

Ion	Ratio	Lower	Upper
77	100		
105	100.5	84.8	124.8
106	94.6	80.5	120.5

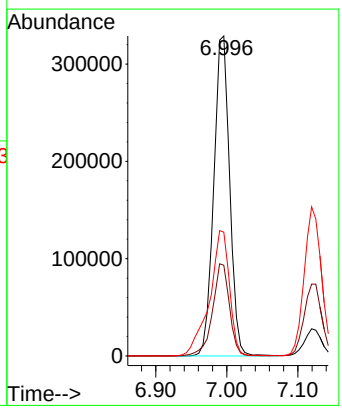


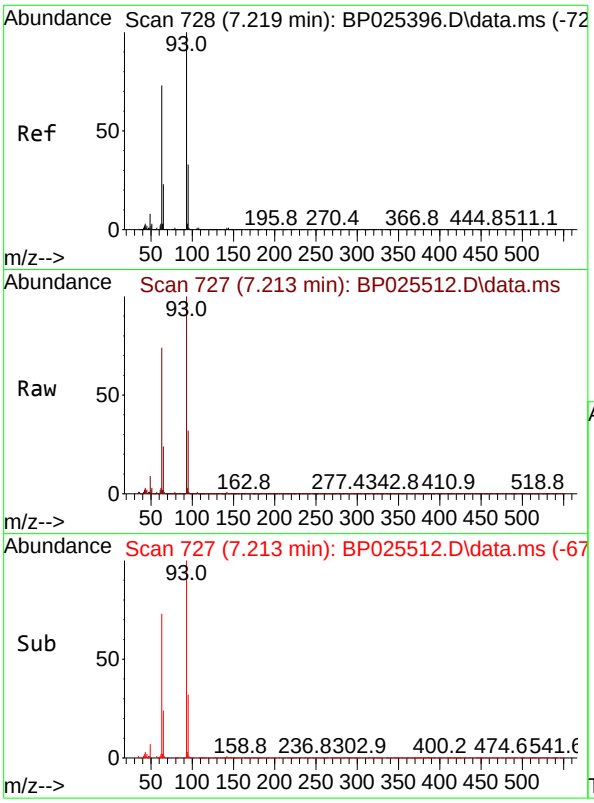


#10
Phenol
Concen: 37.903 ng
RT: 6.996 min Scan# 690
Delta R.T. 0.000 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Tgt Ion: 94 Resp: 510256

Ion	Ratio	Lower	Upper
94	100		
65	28.3	6.8	46.8
66	38.7	18.2	58.2



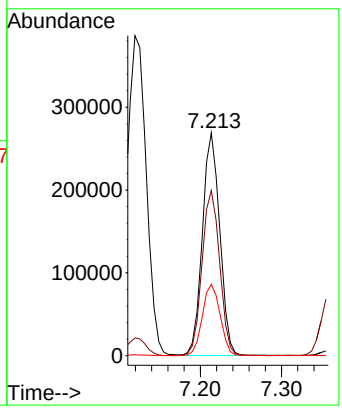


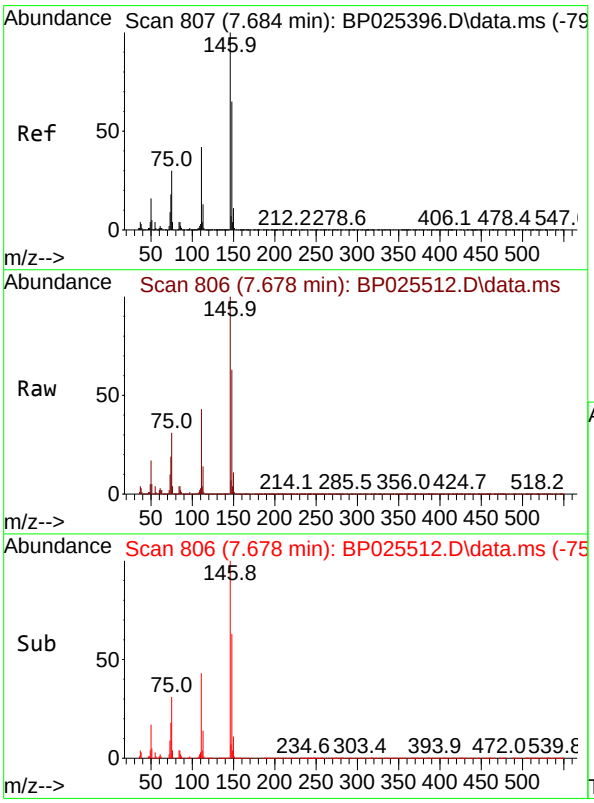
#11
bis(2-Chloroethyl)ether
Concen: 38.056 ng
RT: 7.213 min Scan# 7
Delta R.T. -0.006 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion: 93 Resp: 399309

Ion	Ratio	Lower	Upper
93	100		
63	74.1	52.6	92.6
95	32.0	12.7	52.7

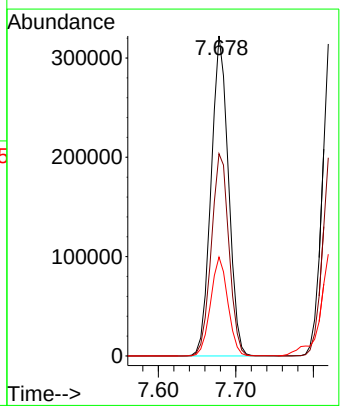


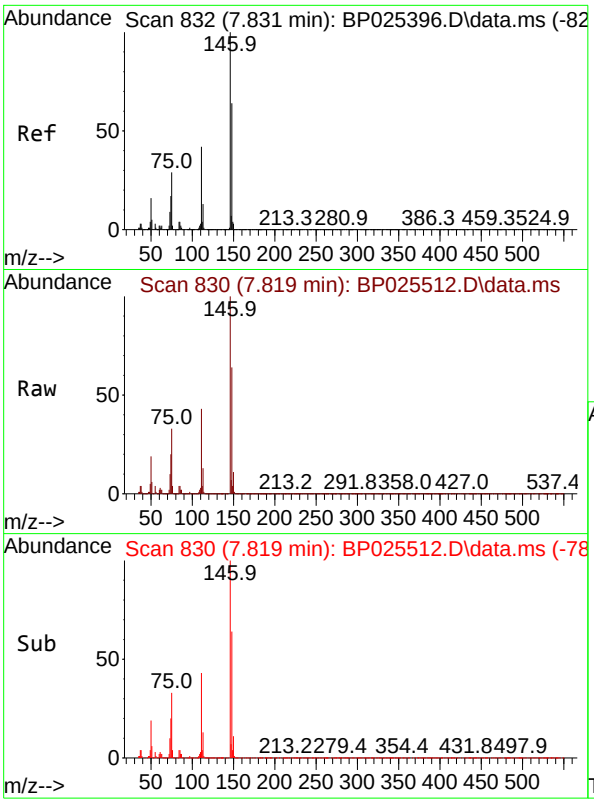


#12
1,3-Dichlorobenzene
Concen: 40.104 ng
RT: 7.678 min Scan# 806
Delta R.T. -0.006 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Tgt Ion:146 Resp: 499346

Ion	Ratio	Lower	Upper
146	100		
148	63.2	51.9	77.9
75	30.9	23.7	35.5



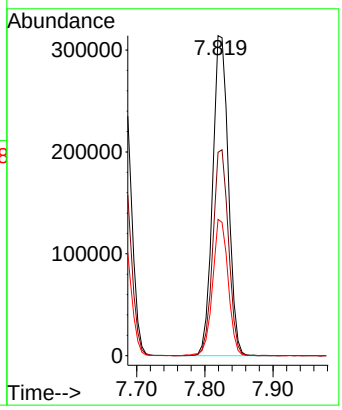


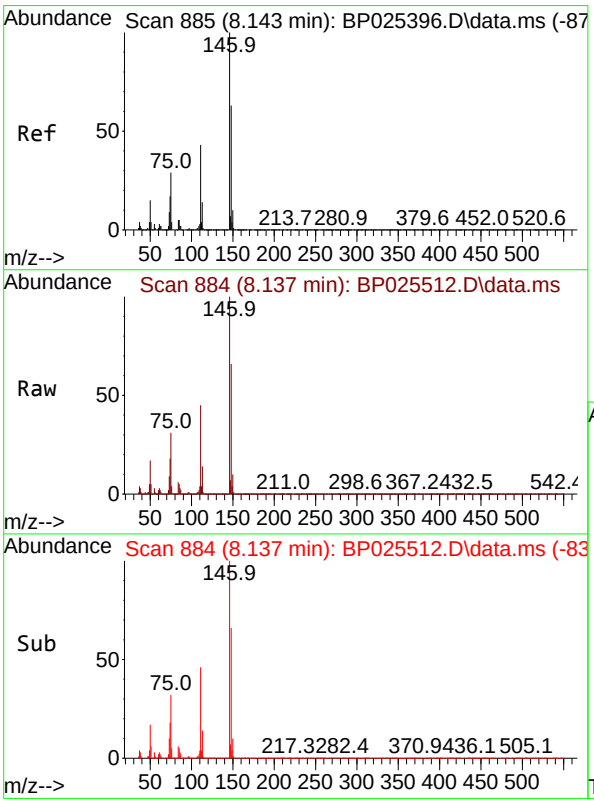
#13
1,4-Dichlorobenzene
Concen: 39.630 ng
RT: 7.819 min Scan# 8
Delta R.T. -0.012 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:146 Resp: 504357

Ion	Ratio	Lower	Upper
146	100		
148	63.6	51.6	77.4
111	42.6	33.4	50.0

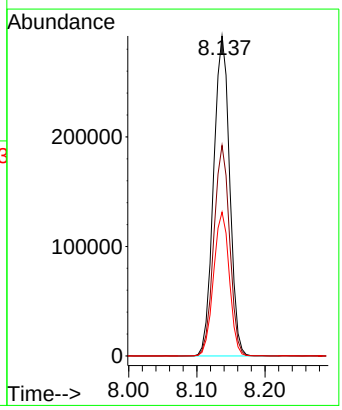


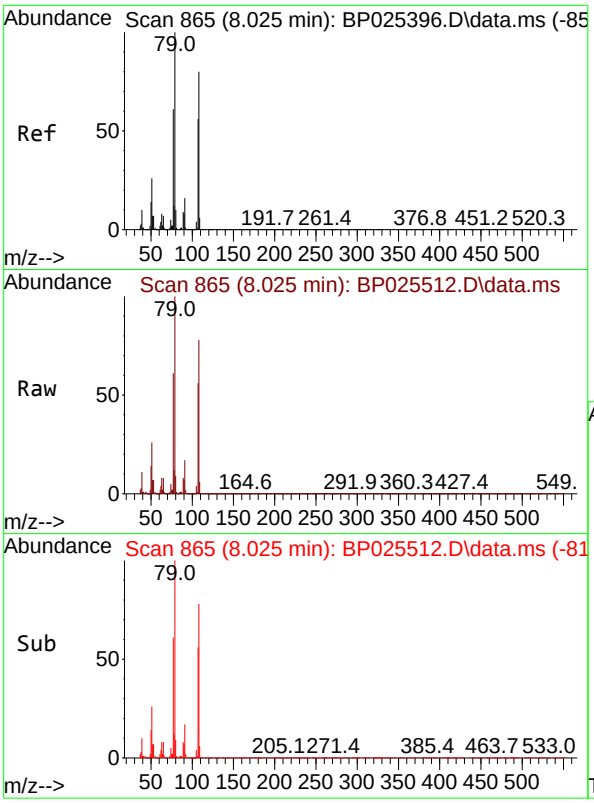


#14
1,2-Dichlorobenzene
Concen: 38.825 ng
RT: 8.137 min Scan# 884
Delta R.T. -0.006 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Tgt Ion:146 Resp: 478303

Ion	Ratio	Lower	Upper
146	100		
148	65.8	50.4	75.6
111	45.0	34.5	51.7



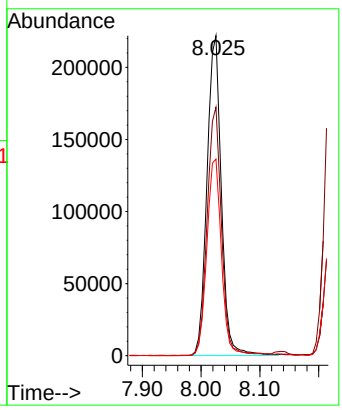


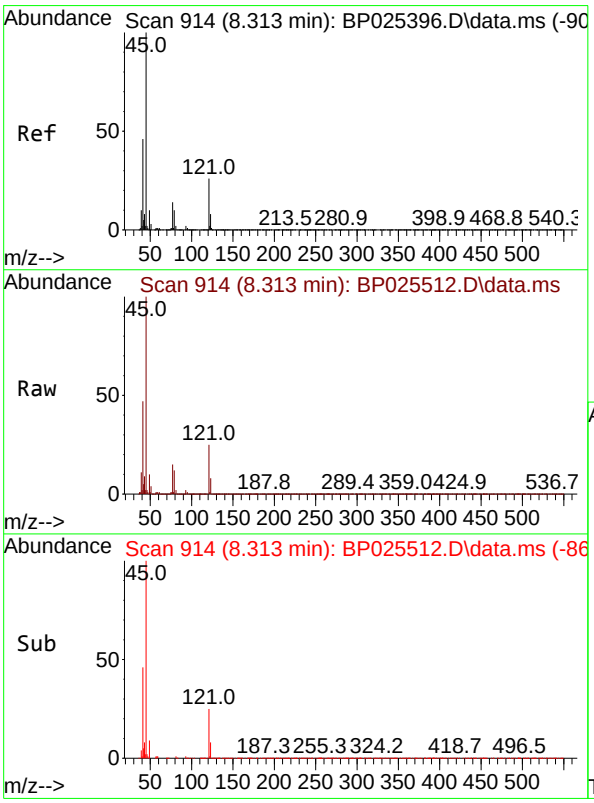
#15
Benzyl Alcohol
Concen: 36.921 ng
RT: 8.025 min Scan# 8
Delta R.T. 0.000 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion: 79 Resp: 376366

Ion	Ratio	Lower	Upper
79	100		
108	77.7	63.8	95.6
77	61.4	49.0	73.4

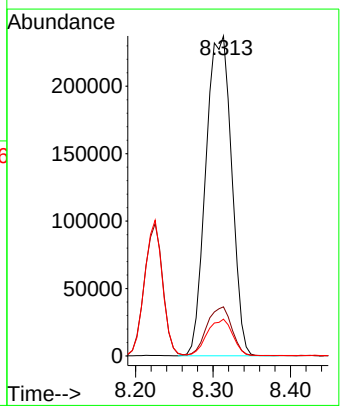


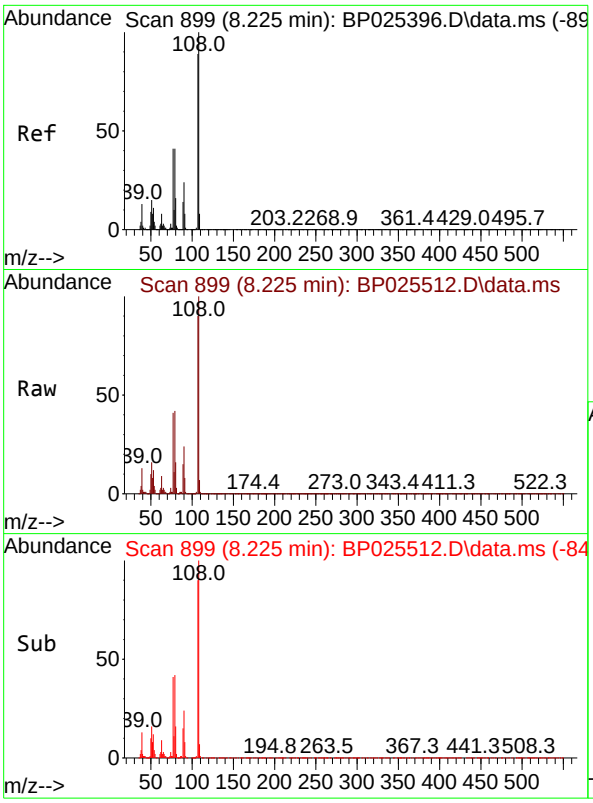


#16
2,2'-oxybis(1-Chloropropane)
Concen: 38.945 ng
RT: 8.313 min Scan# 914
Delta R.T. 0.000 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Tgt Ion: 45 Resp: 547414

Ion	Ratio	Lower	Upper
45	100		
77	15.4	0.0	35.3
79	11.5	0.0	31.8



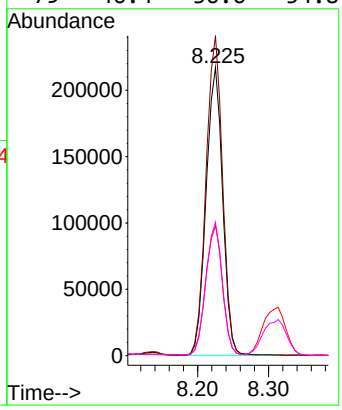


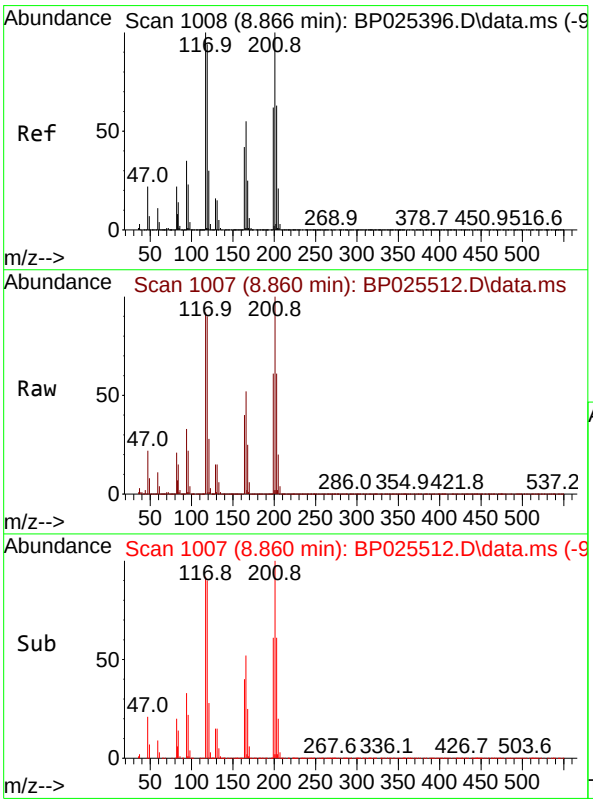
#17
2-Methylphenol
Concen: 37.654 ng
RT: 8.225 min Scan# 8
Delta R.T. 0.000 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:107 Resp: 352050

Ion	Ratio	Lower	Upper
107	100		
108	111.0	89.4	134.0
77	45.2	36.3	54.5
79	46.4	36.6	54.8

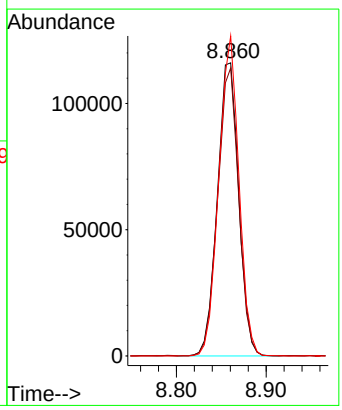


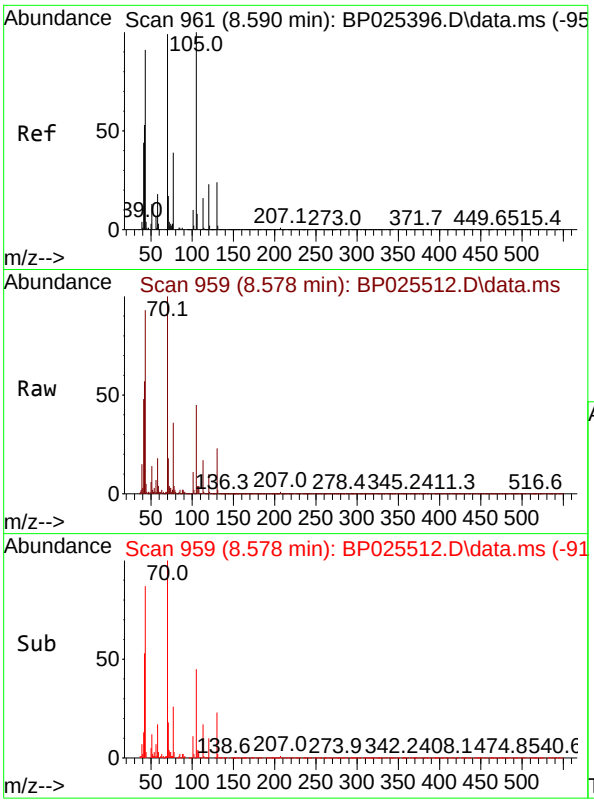


#18
Hexachloroethane
Concen: 41.047 ng
RT: 8.860 min Scan# 1007
Delta R.T. -0.006 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Tgt Ion:117 Resp: 192071

Ion	Ratio	Lower	Upper
117	100		
119	98.3	75.1	112.7
201	109.2	80.1	120.1



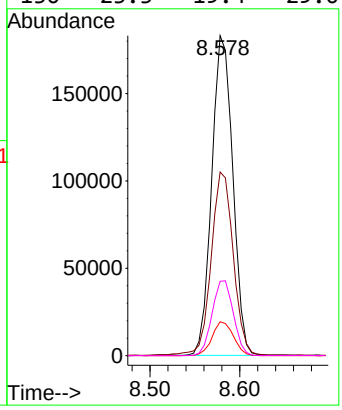


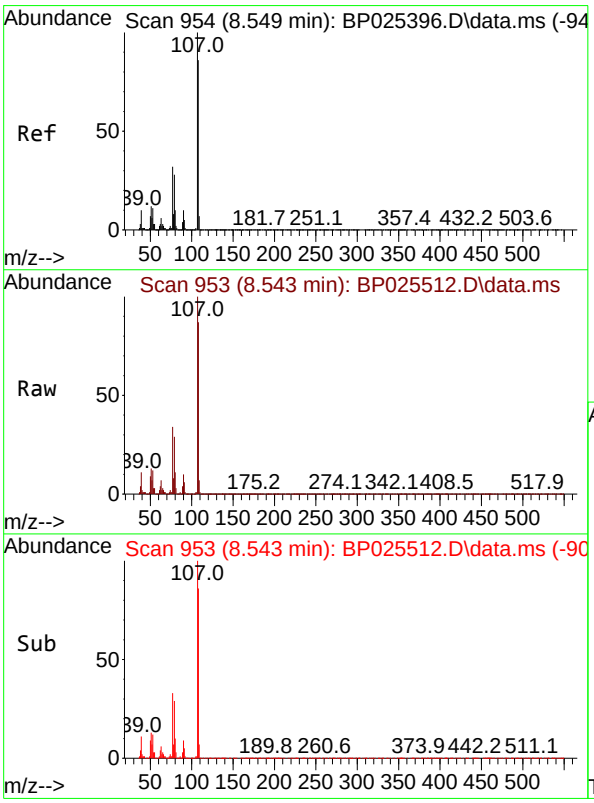
#19
n-Nitroso-di-n-propylamine
Concen: 35.024 ng
RT: 8.578 min Scan# 9
Delta R.T. -0.012 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion: 70 Resp: 297628

Ion	Ratio	Lower	Upper
70	100		
42	57.4	43.8	65.6
101	10.6	8.5	12.7
130	23.3	19.4	29.0

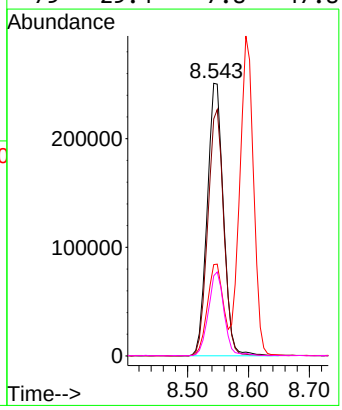


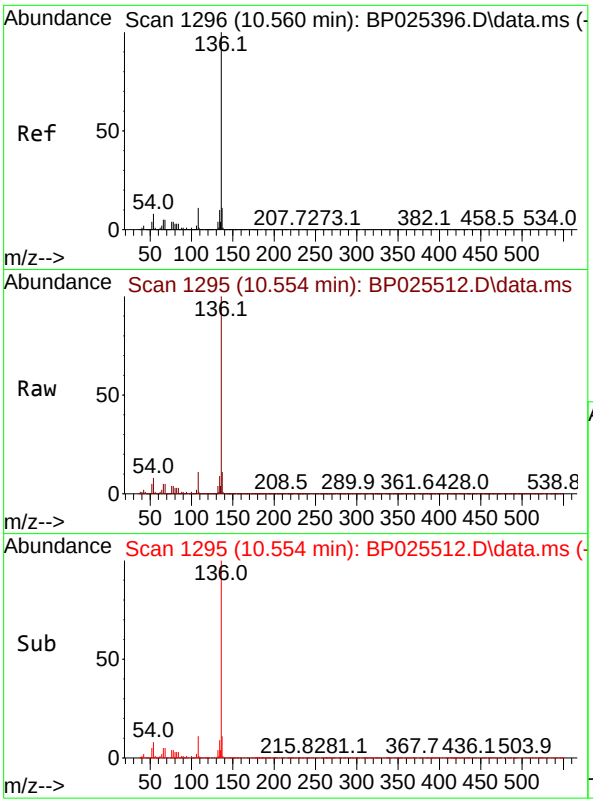


#20
3+4-Methylphenols
Concen: 35.797 ng
RT: 8.543 min Scan# 953
Delta R.T. -0.006 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Tgt Ion:107 Resp: 463927

Ion	Ratio	Lower	Upper
107	100		
108	86.9	66.3	106.3
77	33.5	12.3	52.3
79	29.4	7.8	47.8



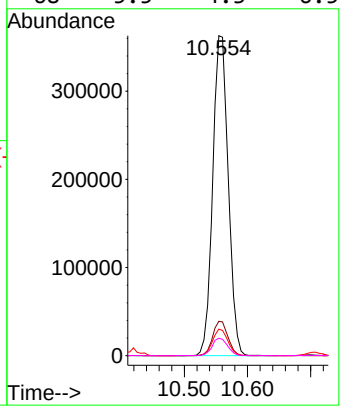


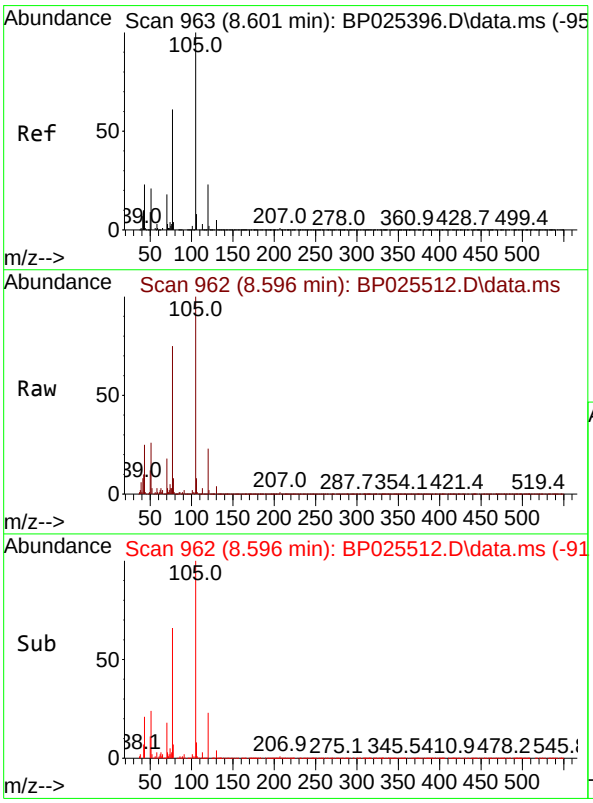
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.554 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:136 Resp: 619421

Ion	Ratio	Lower	Upper
136	100		
137	10.8	9.2	13.8
54	8.3	6.0	9.0
68	5.5	4.3	6.5

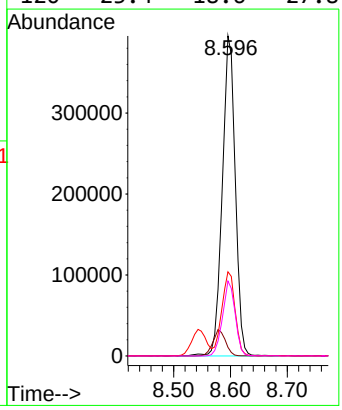


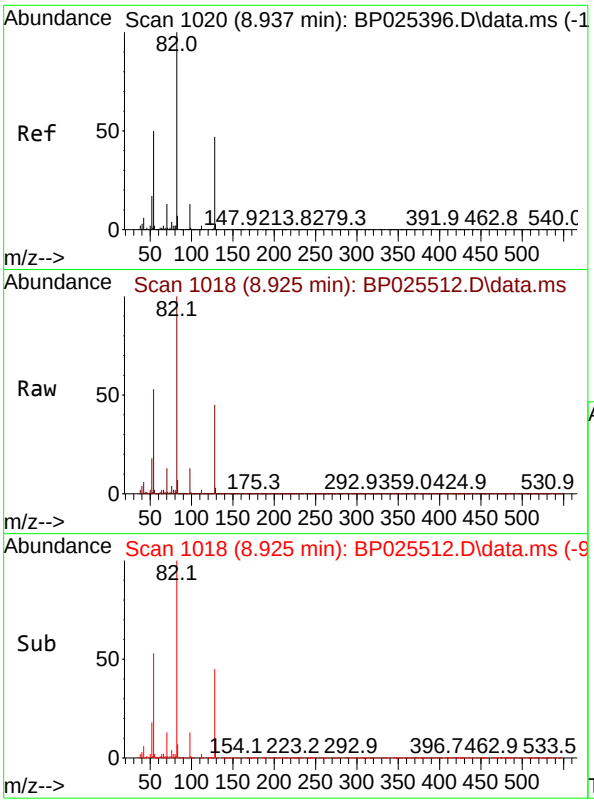


#22
Acetophenone
Concen: 40.553 ng
RT: 8.596 min Scan# 962
Delta R.T. -0.006 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Tgt Ion:105 Resp: 629950

Ion	Ratio	Lower	Upper
105	100		
71	2.7	2.6	4.0
51	26.3	20.6	30.8
120	23.4	18.6	27.8



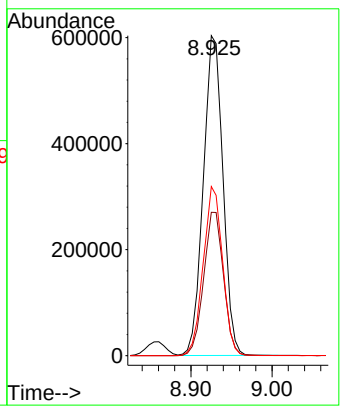


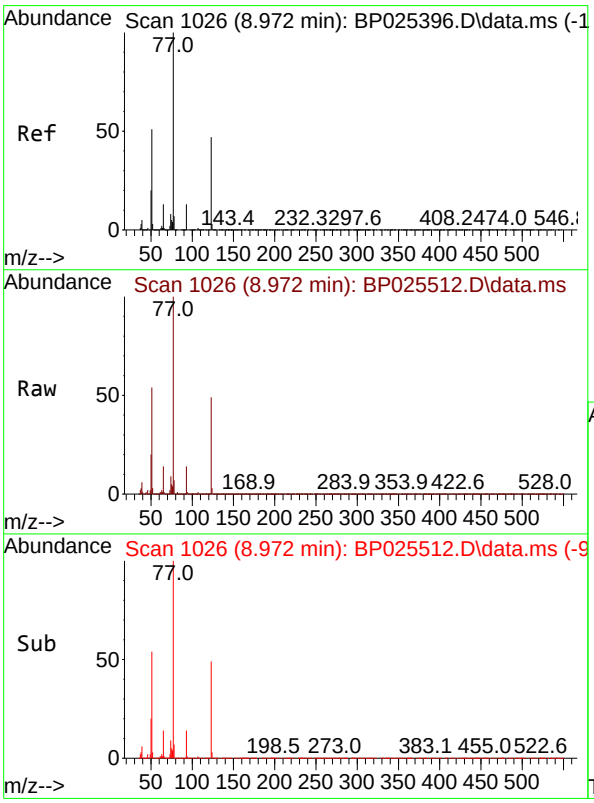
#23
Nitrobenzene-d5
Concen: 82.828 ng
RT: 8.925 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion: 82 Resp: 1014236

Ion	Ratio	Lower	Upper
82	100		
128	44.8	37.7	56.5
54	52.9	39.8	59.6

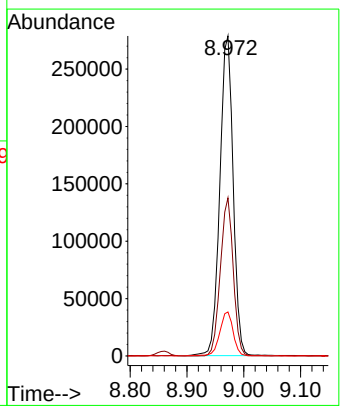


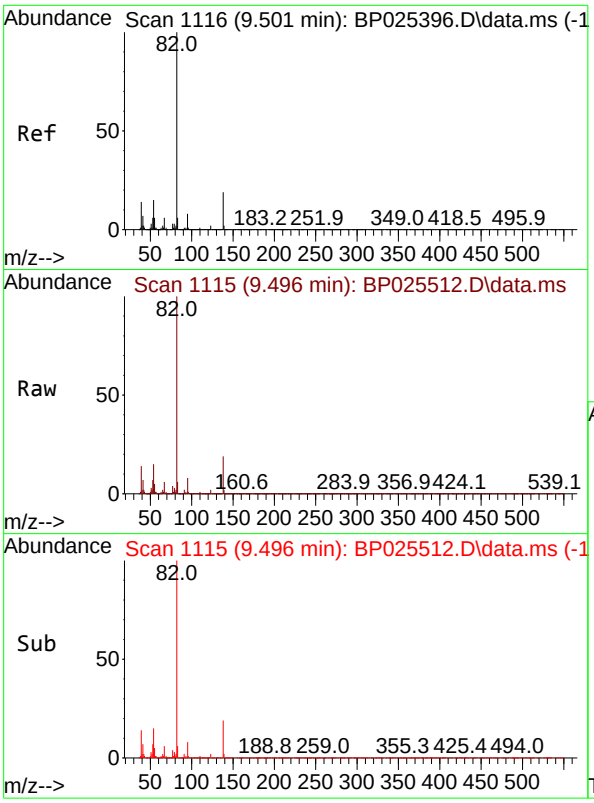


#24
Nitrobenzene
Concen: 41.561 ng
RT: 8.972 min Scan# 1026
Delta R.T. 0.000 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Tgt Ion: 77 Resp: 454821

Ion	Ratio	Lower	Upper
77	100		
123	49.4	38.6	58.0
65	13.8	10.6	15.8



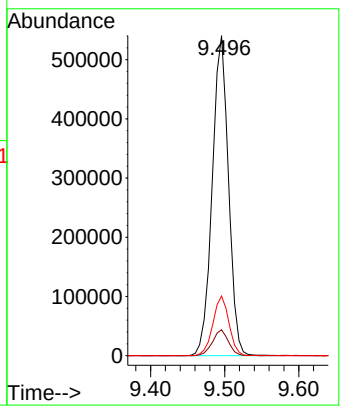


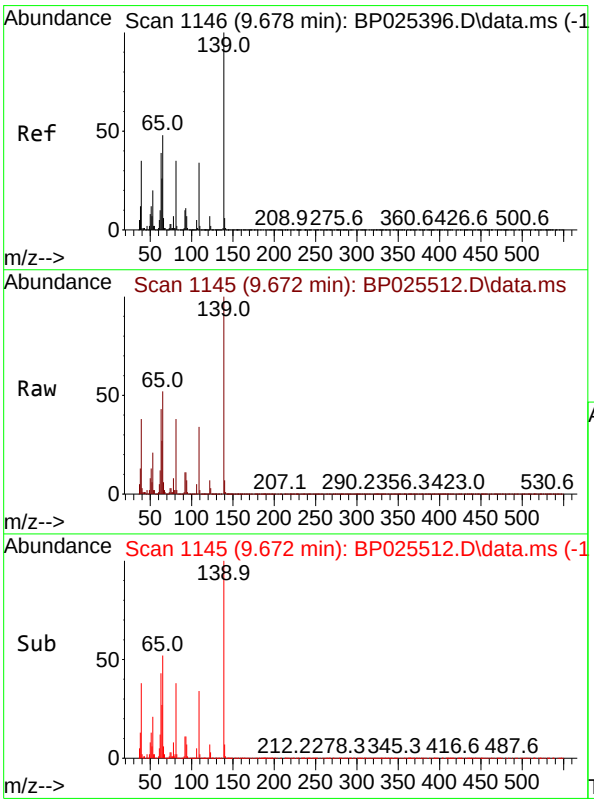
#25
Isophorone
Concen: 37.972 ng
RT: 9.496 min Scan# 11
Delta R.T. -0.006 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion: 82 Resp: 822867

Ion	Ratio	Lower	Upper
82	100		
95	8.1	6.4	9.6
138	18.6	15.4	23.0

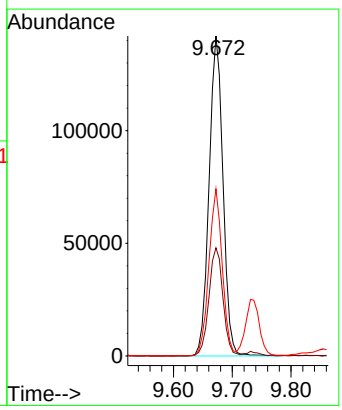


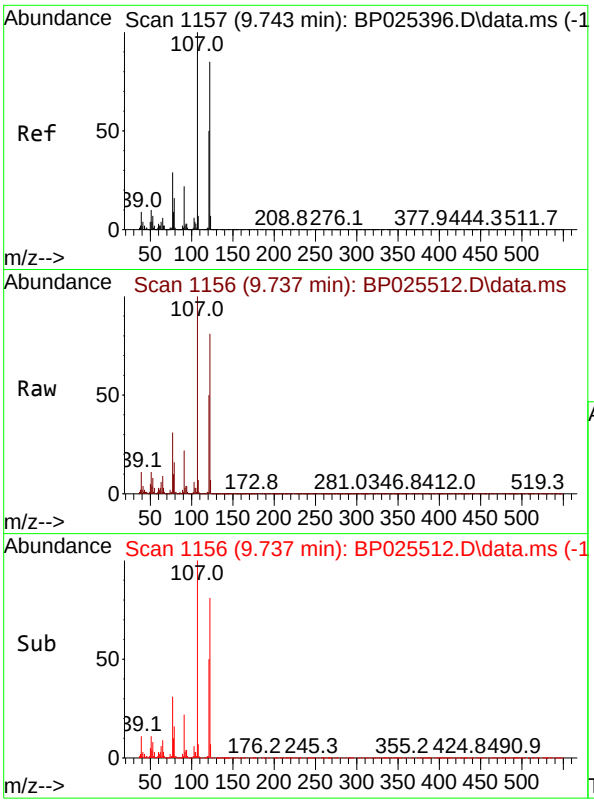


#26
2-Nitrophenol
Concen: 41.515 ng
RT: 9.672 min Scan# 1145
Delta R.T. -0.006 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Tgt Ion:139 Resp: 233161

Ion	Ratio	Lower	Upper
139	100		
109	33.8	26.9	40.3
65	52.2	38.3	57.5



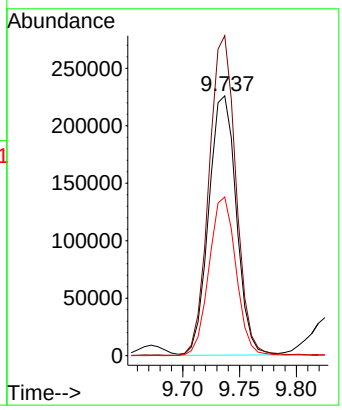


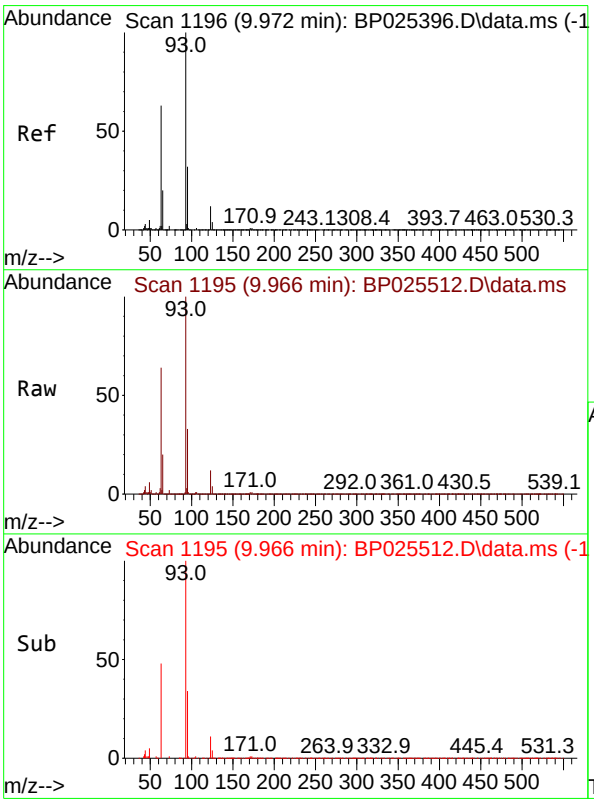
#27
2,4-Dimethylphenol
Concen: 39.508 ng
RT: 9.737 min Scan# 11
Delta R.T. -0.006 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:122 Resp: 381587

Ion	Ratio	Lower	Upper
122	100		
107	123.1	93.7	140.5
121	61.1	46.6	69.8

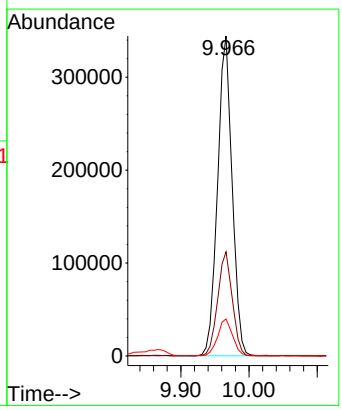


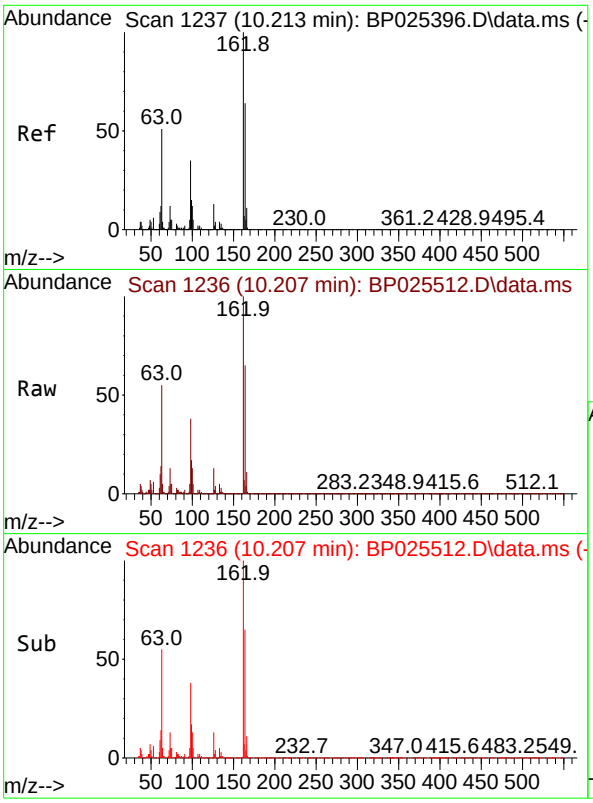


#28
bis(2-Chloroethoxy)methane
Concen: 39.085 ng
RT: 9.966 min Scan# 1195
Delta R.T. -0.006 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Tgt Ion: 93 Resp: 511989

Ion	Ratio	Lower	Upper
93	100		
95	32.5	25.4	38.0
123	11.5	9.4	14.0



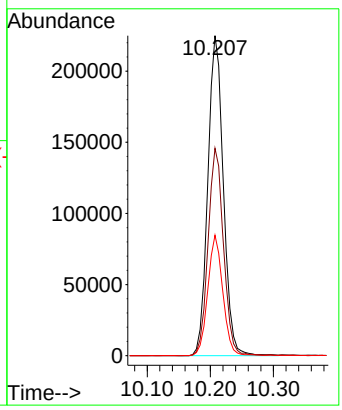


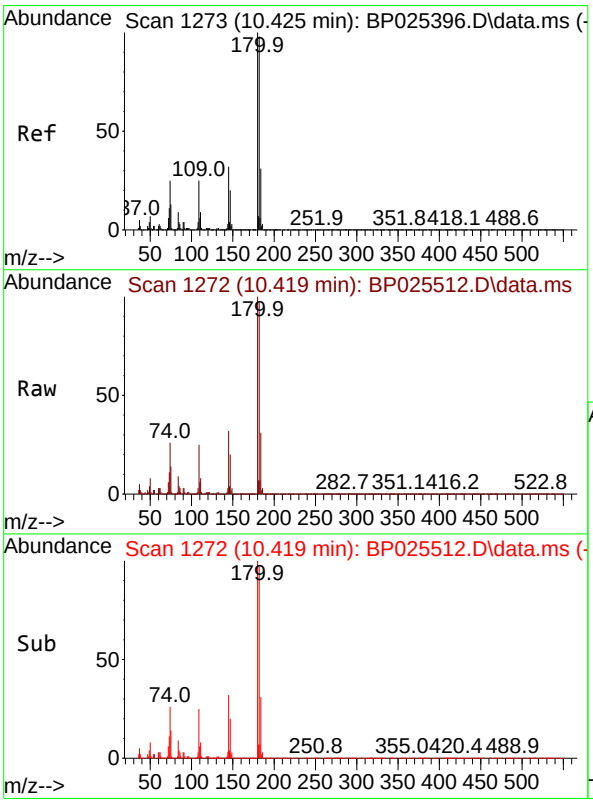
#29
2,4-Dichlorophenol
Concen: 40.068 ng
RT: 10.207 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:162 Resp: 384438

Ion	Ratio	Lower	Upper
162	100		
164	64.8	44.4	84.4
98	37.6	14.9	54.9

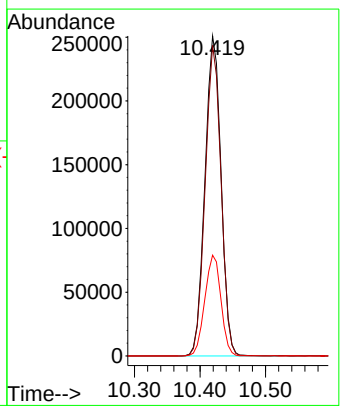


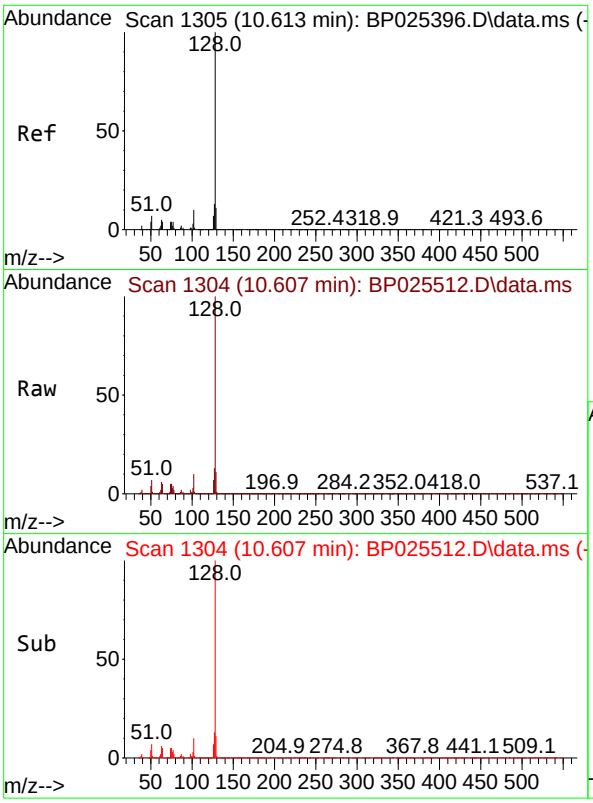


#30
1,2,4-Trichlorobenzene
Concen: 40.786 ng
RT: 10.419 min Scan# 1272
Delta R.T. -0.006 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Tgt Ion:180 Resp: 428971

Ion	Ratio	Lower	Upper
180	100		
182	97.0	78.0	117.0
145	31.5	25.9	38.9



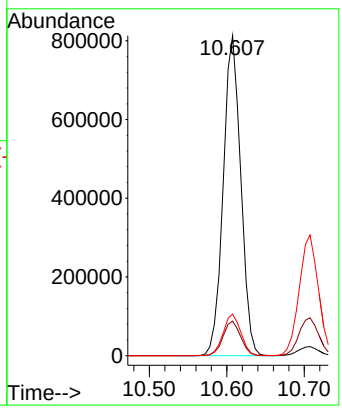


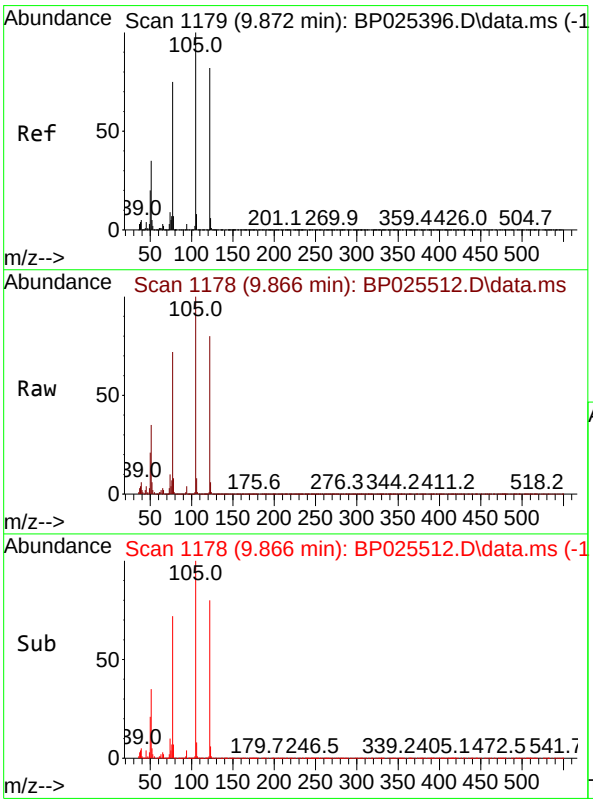
#31
Naphthalene
Concen: 39.747 ng
RT: 10.607 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:128 Resp: 1279654

Ion	Ratio	Lower	Upper
128	100		
129	10.8	8.6	13.0
127	13.0	10.7	16.1

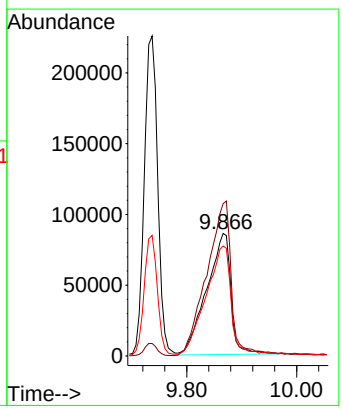


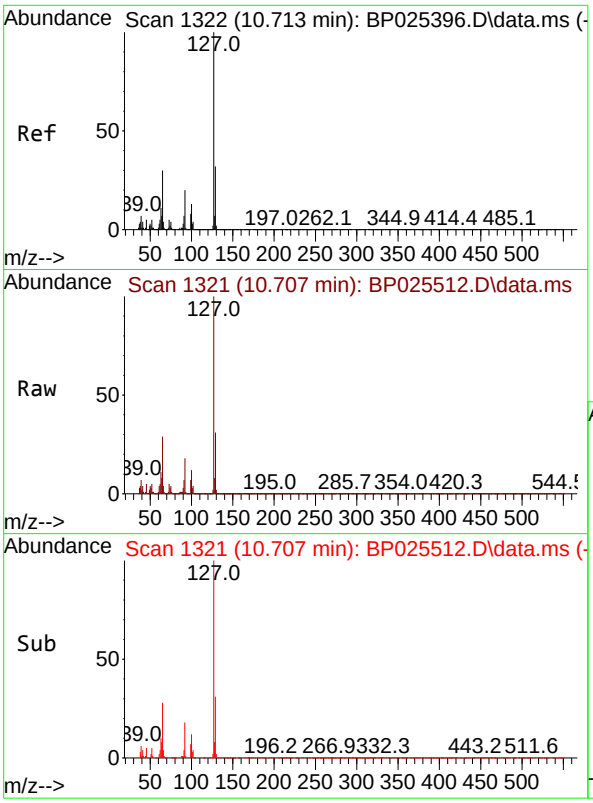


#32
Benzoic acid
Concen: 36.722 ng
RT: 9.866 min Scan# 1178
Delta R.T. -0.006 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Tgt Ion:122 Resp: 261847

Ion	Ratio	Lower	Upper
122	100		
105	124.3	100.6	140.6
77	89.7	71.5	111.5



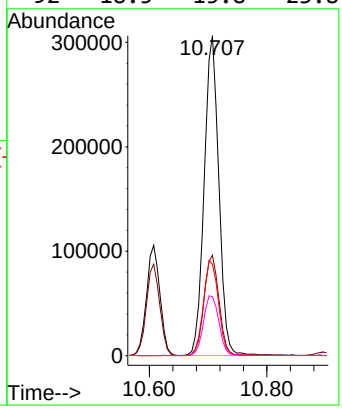


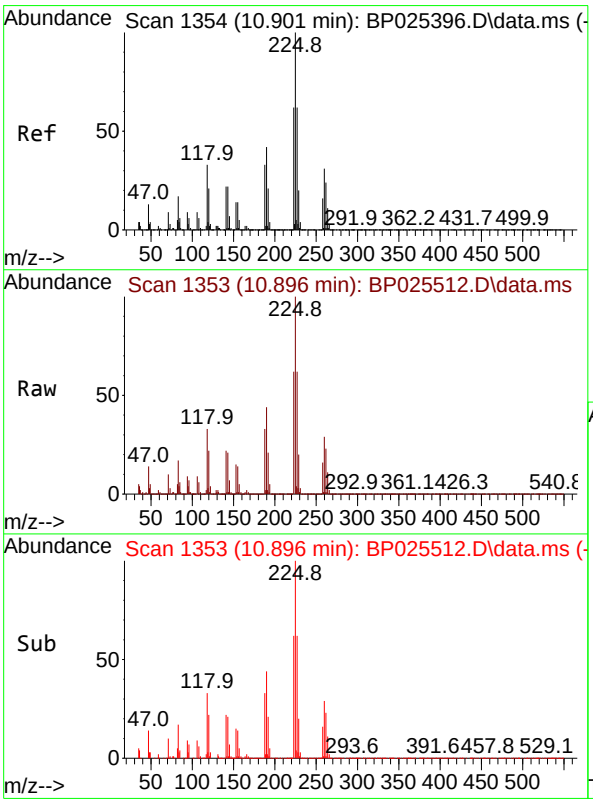
#33
4-Chloroaniline
Concen: 37.353 ng
RT: 10.707 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:127 Resp: 531205

Ion	Ratio	Lower	Upper
127	100		
129	31.4	25.4	38.2
65	28.5	23.8	35.6
92	18.5	15.8	23.8

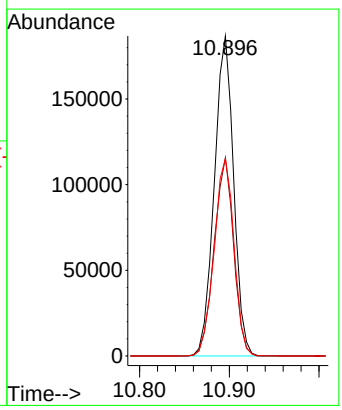


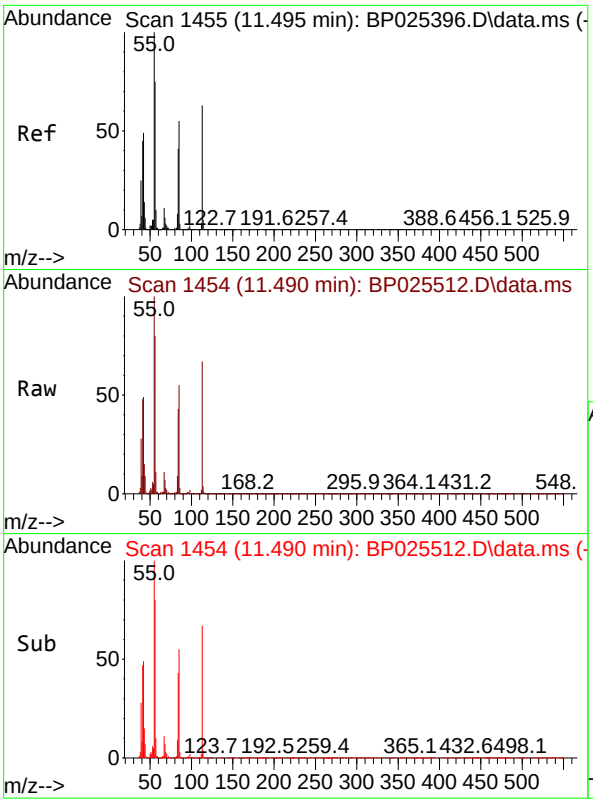


#34
Hexachlorobutadiene
Concen: 42.538 ng
RT: 10.896 min Scan# 1353
Delta R.T. -0.006 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Tgt Ion:225 Resp: 278633

Ion	Ratio	Lower	Upper
225	100		
223	62.0	50.0	75.0
227	61.7	49.7	74.5



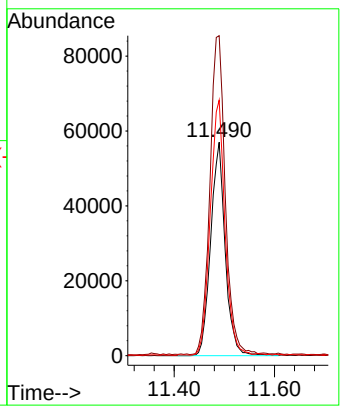


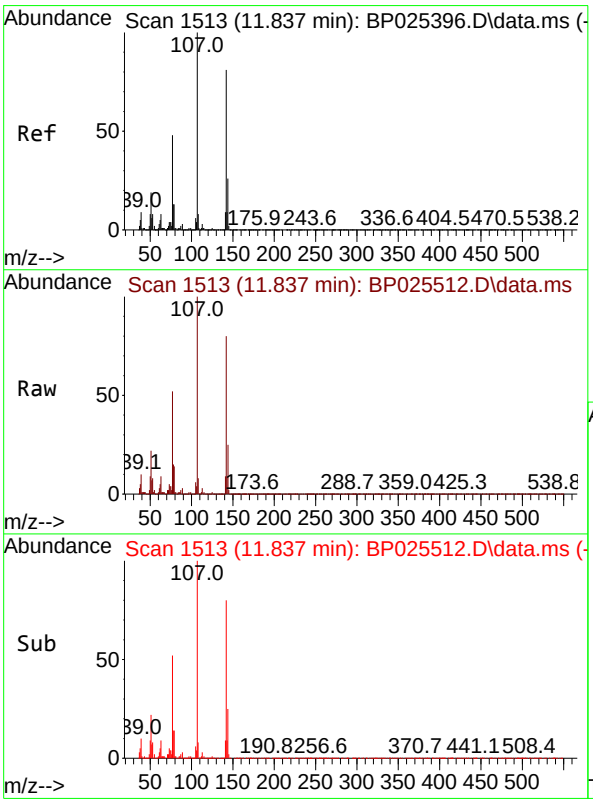
#35
Caprolactam
Concen: 32.534 ng
RT: 11.490 min Scan# 14
Delta R.T. -0.006 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:113 Resp: 114461

Ion	Ratio	Lower	Upper
113	100		
55	149.9	140.0	180.0
56	119.7	100.0	140.0

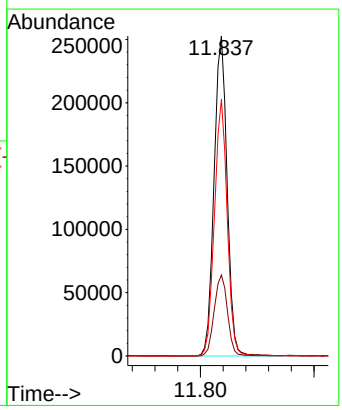


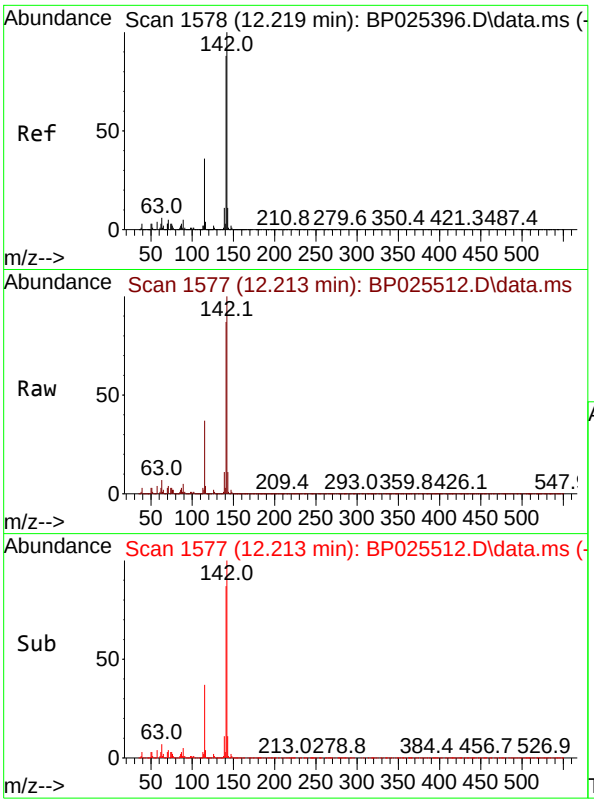


#36
4-Chloro-3-methylphenol
Concen: 36.511 ng
RT: 11.837 min Scan# 1513
Delta R.T. 0.000 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Tgt Ion:107 Resp: 401963

Ion	Ratio	Lower	Upper
107	100		
144	25.3	21.0	31.4
142	80.2	64.6	97.0



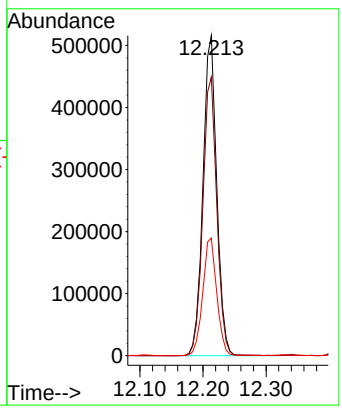


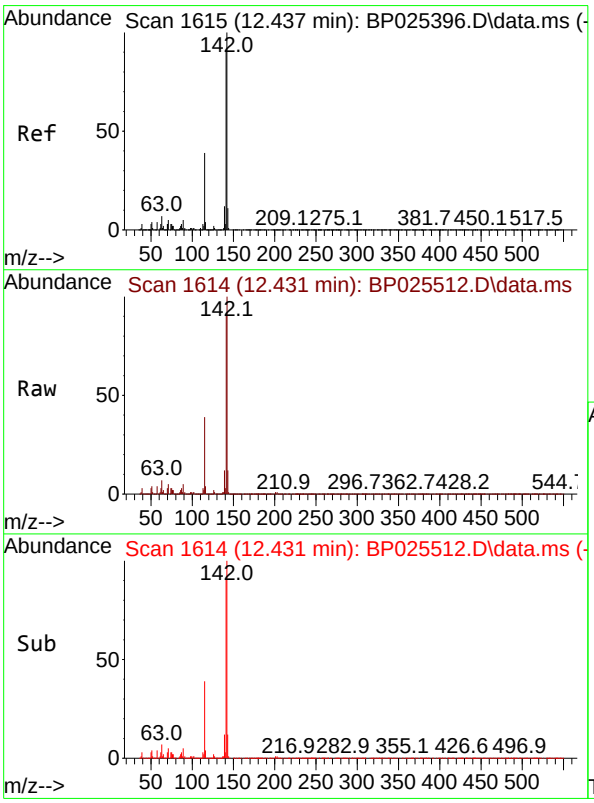
#37
2-Methylnaphthalene
Concen: 37.407 ng
RT: 12.213 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:142 Resp: 783727

Ion	Ratio	Lower	Upper
142	100		
141	87.0	70.3	105.5
115	36.8	28.9	43.3

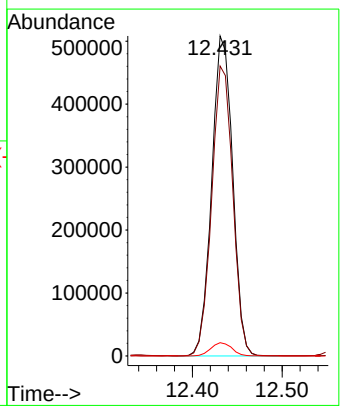


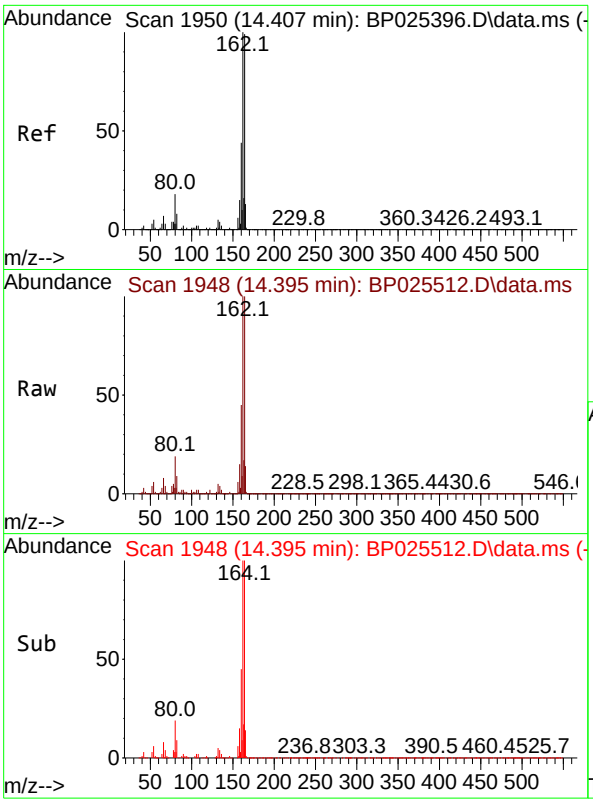


#38
1-Methylnaphthalene
Concen: 36.937 ng
RT: 12.431 min Scan# 1614
Delta R.T. -0.006 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Tgt Ion:142 Resp: 822994

Ion	Ratio	Lower	Upper
142	100		
141	90.6	73.1	109.7
116	4.2	3.2	4.8



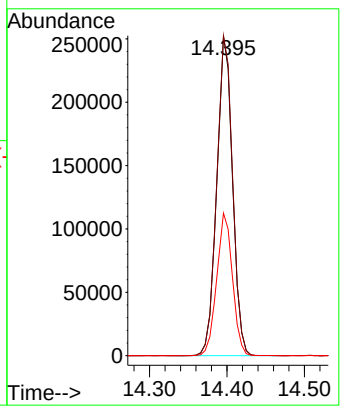


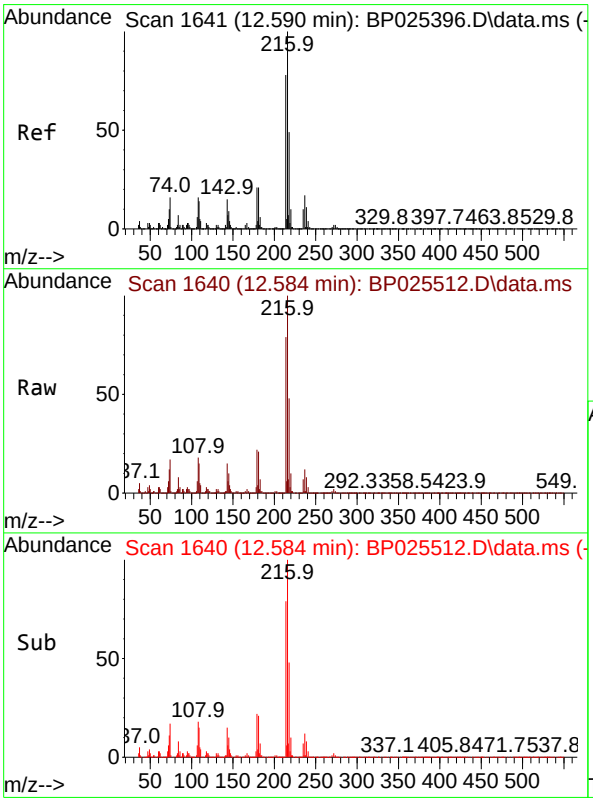
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.395 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:164 Resp: 355189

Ion	Ratio	Lower	Upper
164	100		
162	100.1	81.0	121.6
160	44.6	35.4	53.2

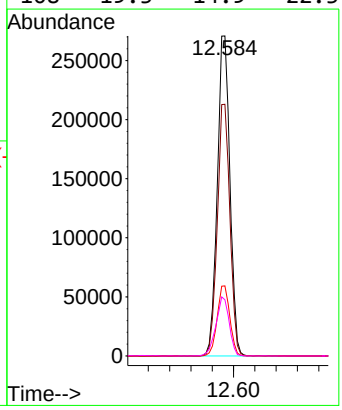


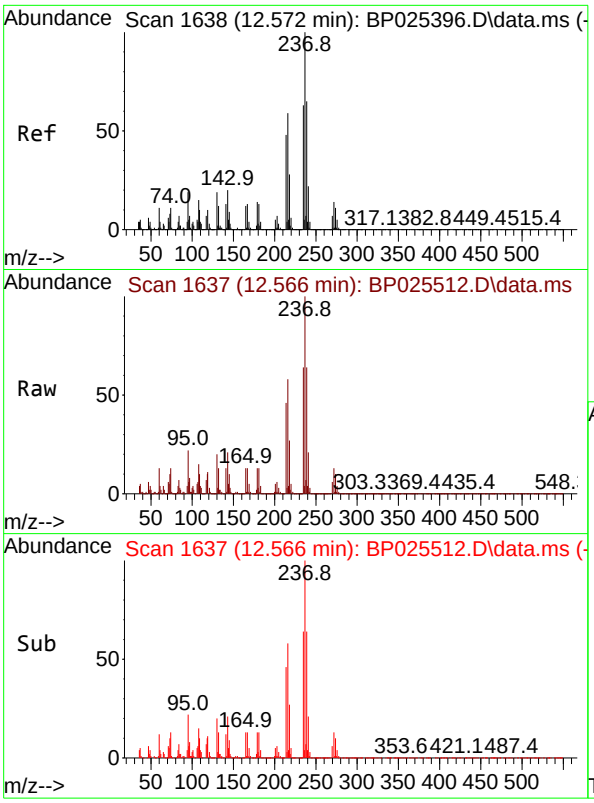


#40
1,2,4,5-Tetrachlorobenzene
Concen: 43.350 ng
RT: 12.584 min Scan# 1640
Delta R.T. -0.006 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Tgt Ion:216 Resp: 444699

Ion	Ratio	Lower	Upper
216	100		
214	78.3	63.0	94.4
179	22.0	17.1	25.7
108	19.3	14.9	22.3



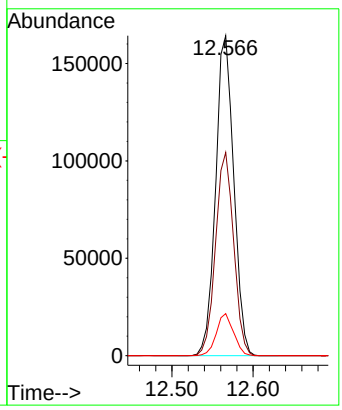


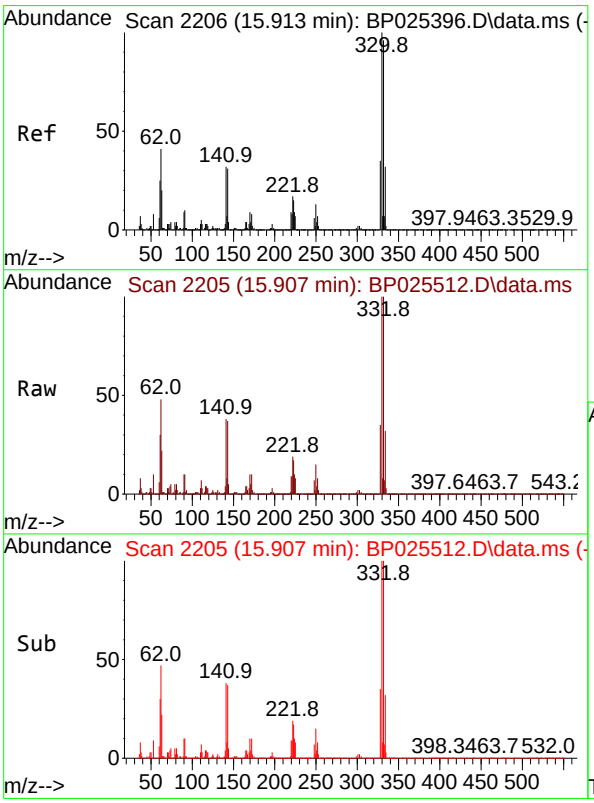
#41
Hexachlorocyclopentadiene
Concen: 41.195 ng
RT: 12.566 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:237 Resp: 255262

Ion	Ratio	Lower	Upper
237	100		
235	63.5	42.7	82.7
272	13.1	0.0	34.0

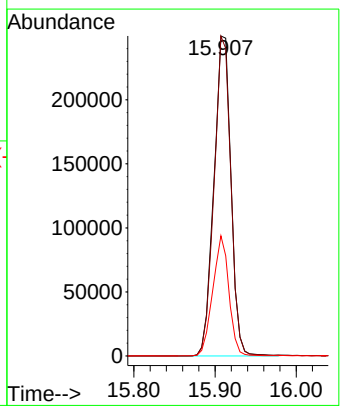


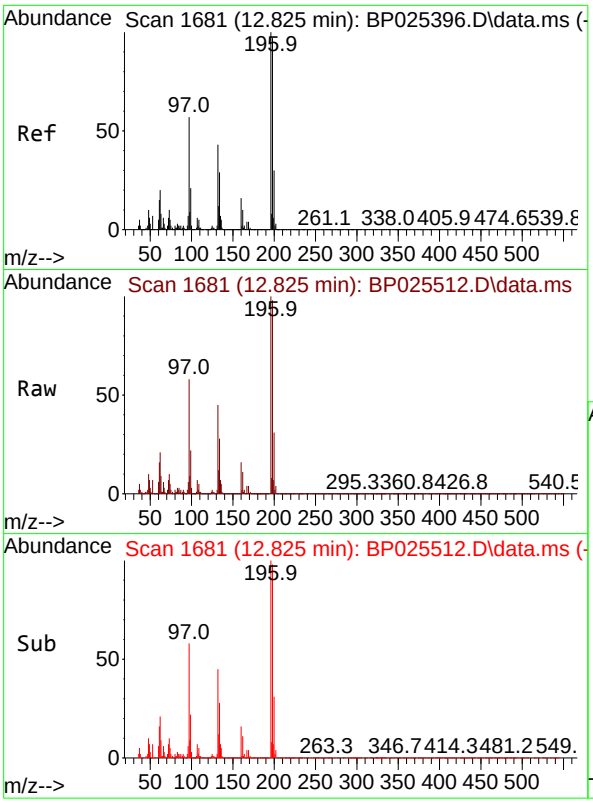


#42
2,4,6-Tribromophenol
Concen: 76.447 ng
RT: 15.907 min Scan# 2205
Delta R.T. -0.006 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Tgt Ion:330 Resp: 365485

Ion	Ratio	Lower	Upper
330	100		
332	98.1	77.3	115.9
141	35.5	26.6	39.8



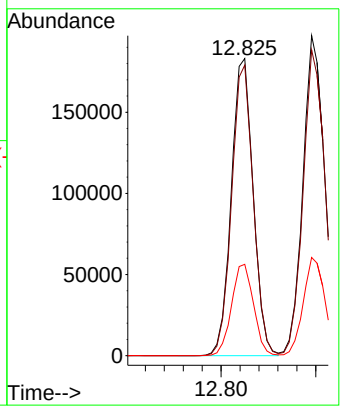


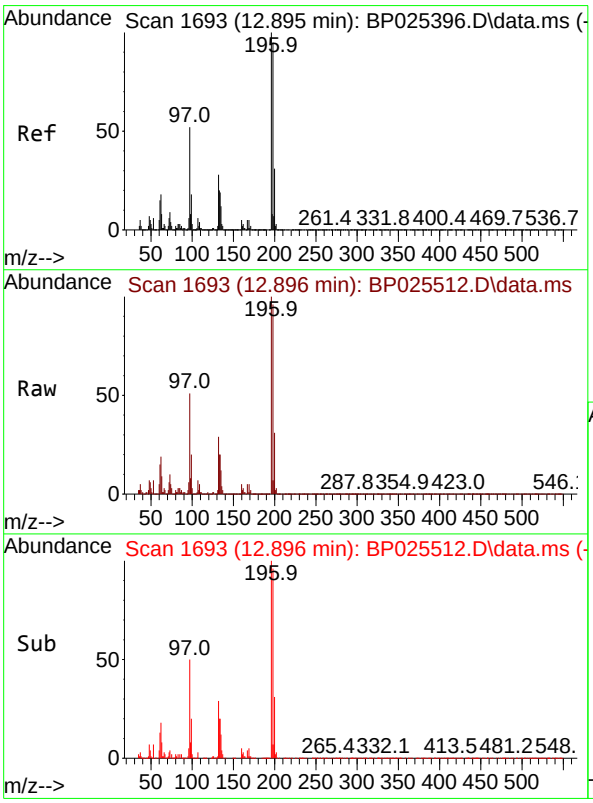
#43
2,4,6-Trichlorophenol
Concen: 42.446 ng
RT: 12.825 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:196 Resp: 293959

Ion	Ratio	Lower	Upper
196	100		
198	97.8	77.2	115.8
200	30.7	23.9	35.9

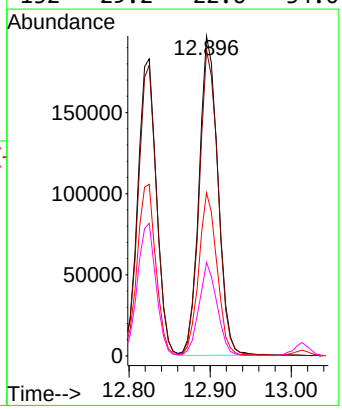


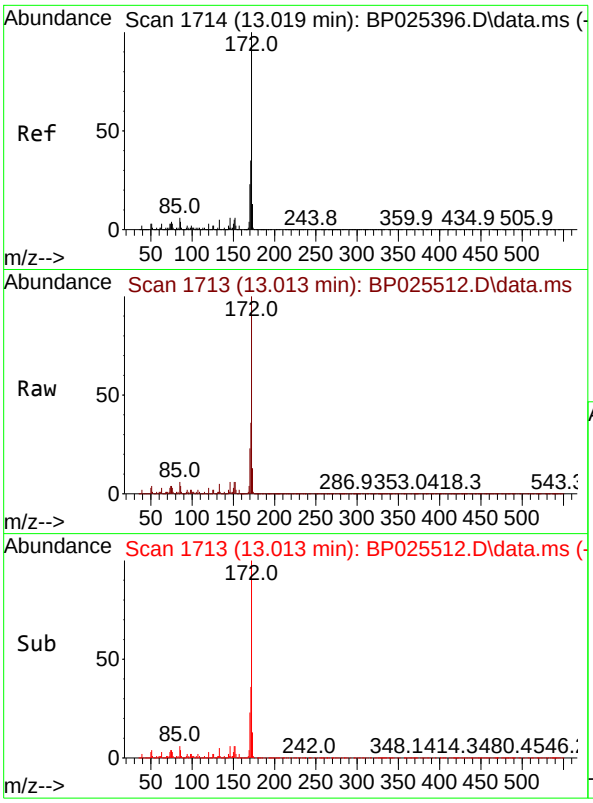


#44
2,4,5-Trichlorophenol
Concen: 41.744 ng
RT: 12.896 min Scan# 1693
Delta R.T. 0.000 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Tgt Ion:196 Resp: 316844

Ion	Ratio	Lower	Upper
196	100		
198	95.6	76.2	114.2
97	51.0	41.2	61.8
132	29.2	22.6	34.0



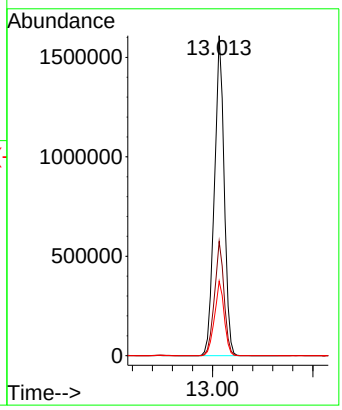


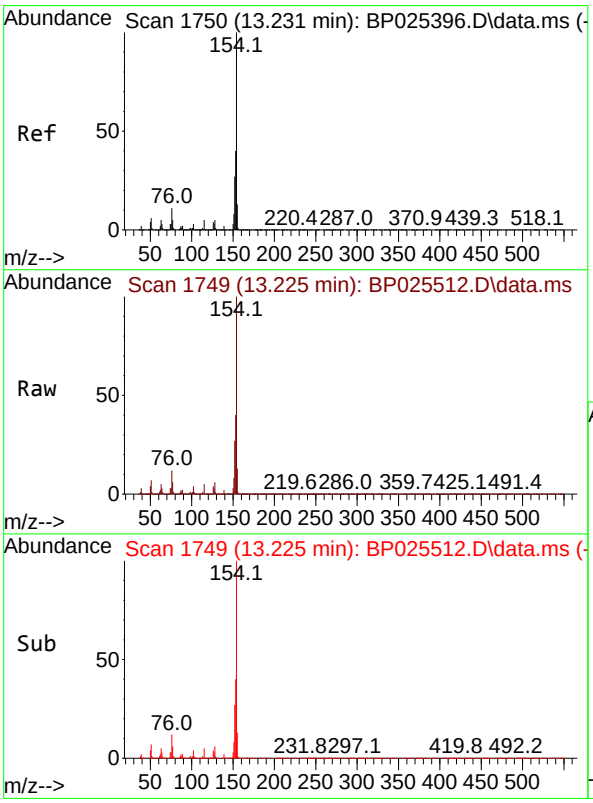
#45
2-Fluorobiphenyl
Concen: 83.434 ng
RT: 13.013 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:172 Resp: 2168370

Ion	Ratio	Lower	Upper
172	100		
171	35.7	28.1	42.1
170	23.3	18.6	28.0

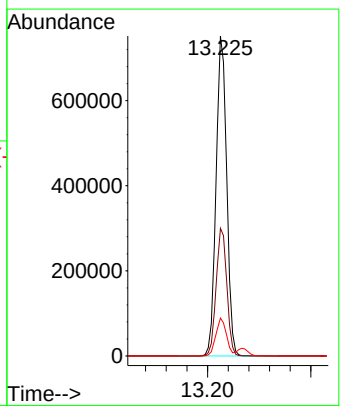


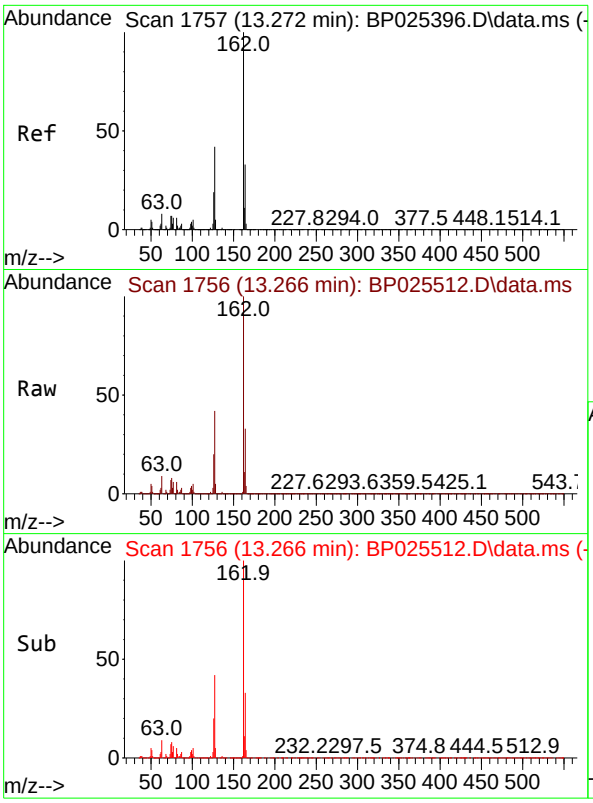


#46
1,1'-Biphenyl
Concen: 41.508 ng
RT: 13.225 min Scan# 1749
Delta R.T. -0.006 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Tgt Ion:154 Resp: 1070736

Ion	Ratio	Lower	Upper
154	100		
153	39.9	19.5	59.5
76	11.9	0.0	31.1



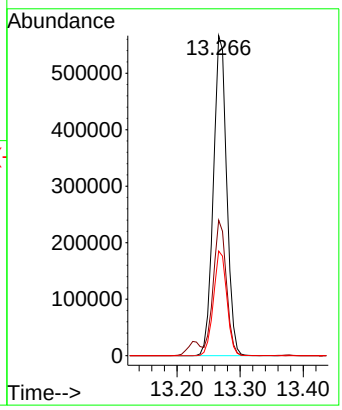


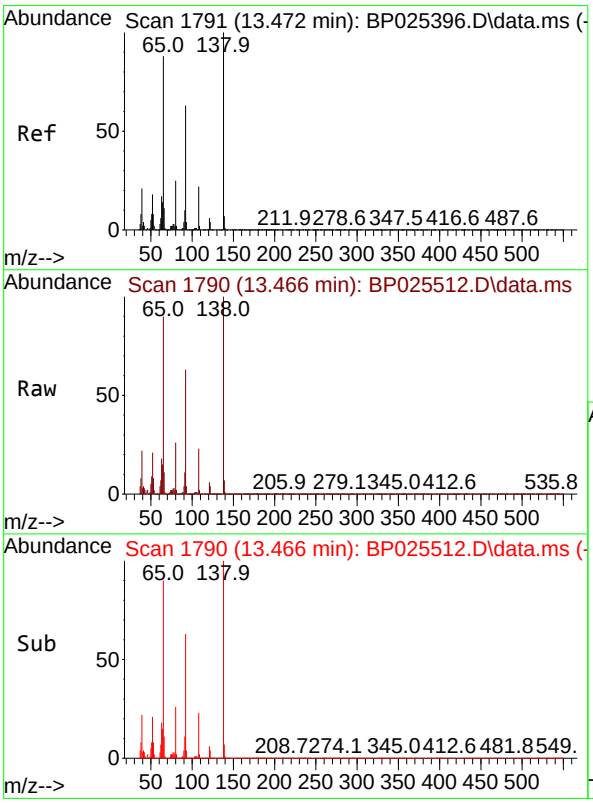
#47
2-Chloronaphthalene
Concen: 41.219 ng
RT: 13.266 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:162 Resp: 827743

Ion	Ratio	Lower	Upper
162	100		
127	42.3	33.4	50.2
164	32.7	26.2	39.2

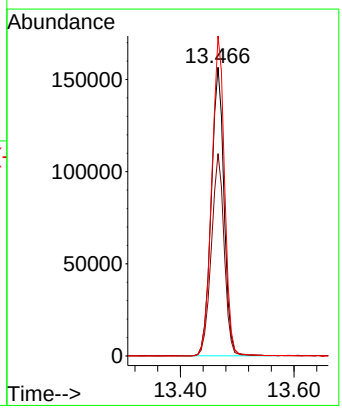


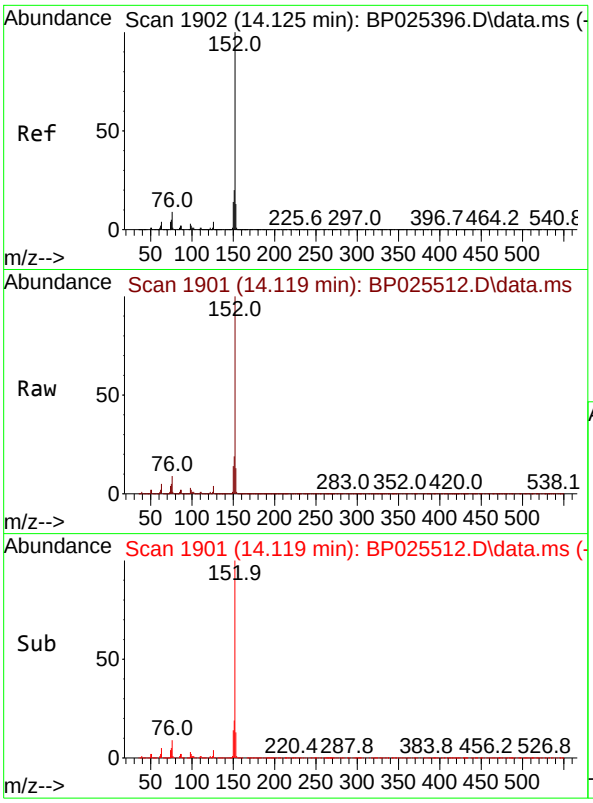


#48
2-Nitroaniline
Concen: 41.628 ng
RT: 13.466 min Scan# 1790
Delta R.T. -0.006 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Tgt Ion: 65 Resp: 243579

Ion	Ratio	Lower	Upper
65	100		
92	70.1	57.6	86.4
138	110.9	91.0	136.6



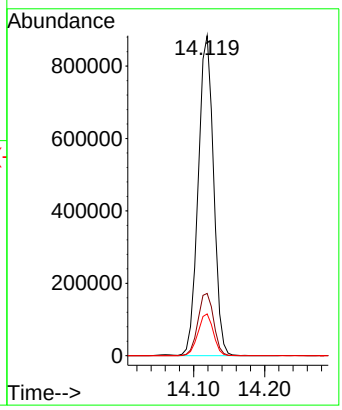


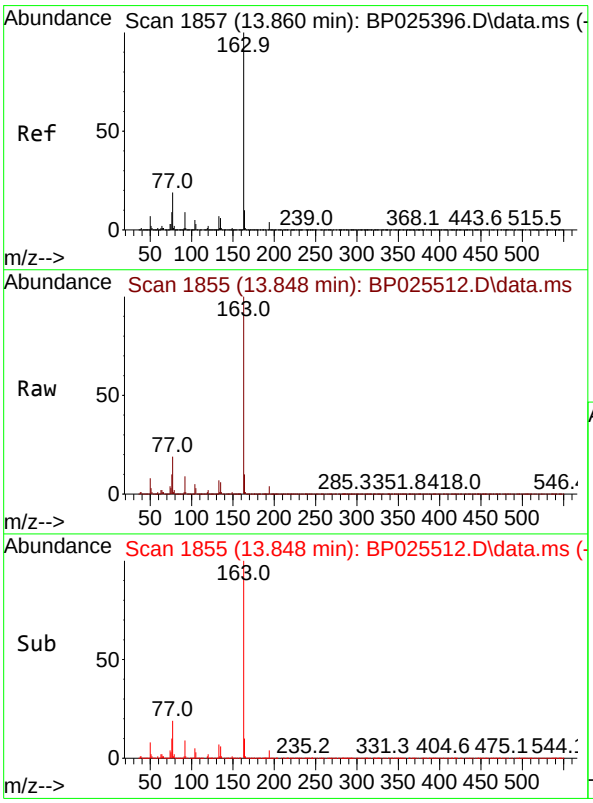
#49
Acenaphthylene
Concen: 40.001 ng
RT: 14.119 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:152 Resp: 1329242

Ion	Ratio	Lower	Upper
152	100		
151	19.5	16.0	24.0
153	13.1	10.6	15.8

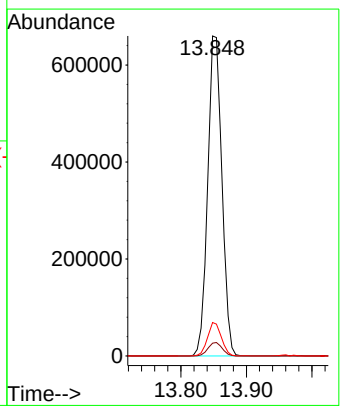


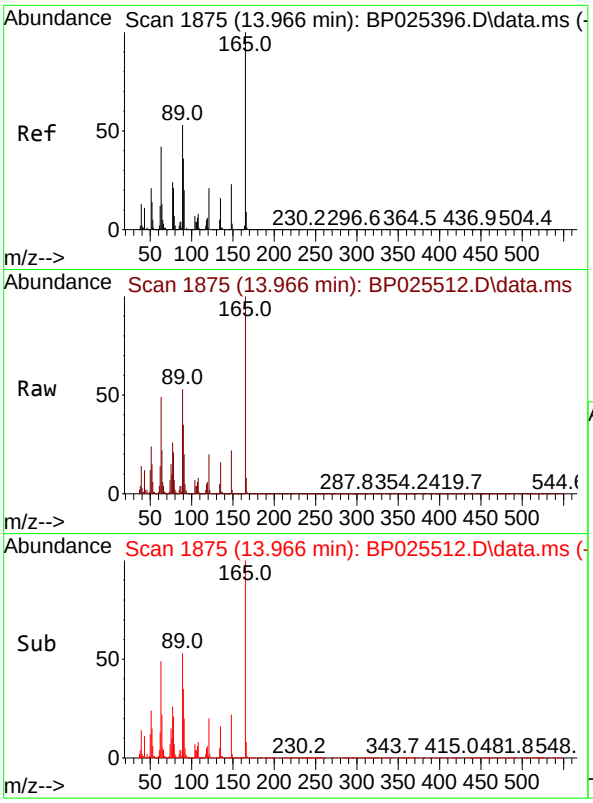


#50
Dimethylphthalate
Concen: 38.219 ng
RT: 13.848 min Scan# 1855
Delta R.T. -0.012 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Tgt Ion:163 Resp: 994069

Ion	Ratio	Lower	Upper
163	100		
194	4.0	3.4	5.0
164	10.4	7.9	11.9



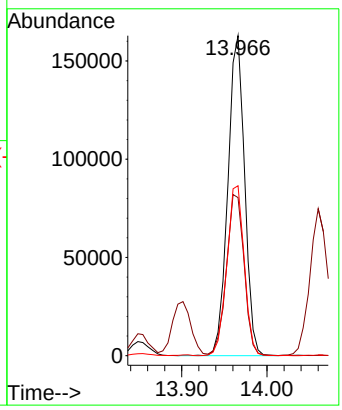


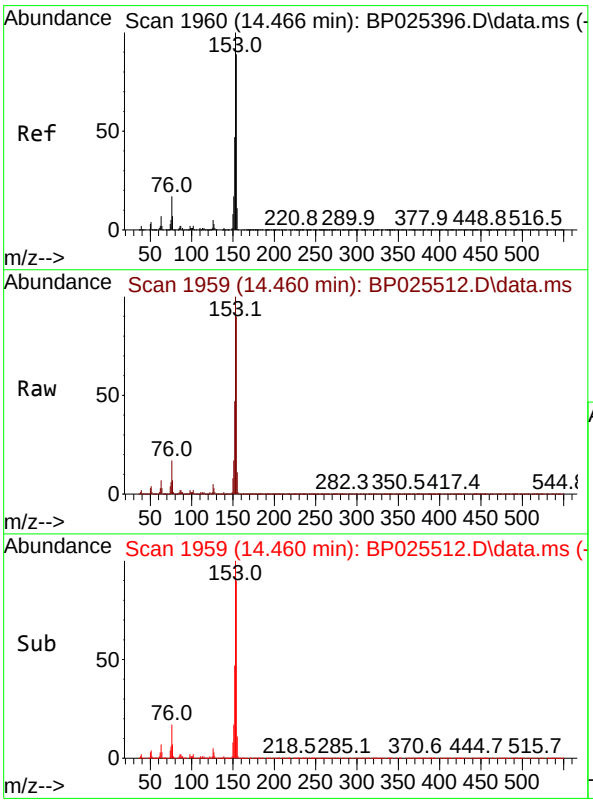
#51
2,6-Dinitrotoluene
Concen: 40.576 ng
RT: 13.966 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:165 Resp: 222447

Ion	Ratio	Lower	Upper
165	100		
63	49.4	40.9	61.3
89	53.1	42.1	63.1

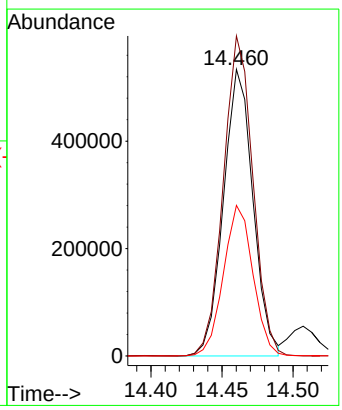


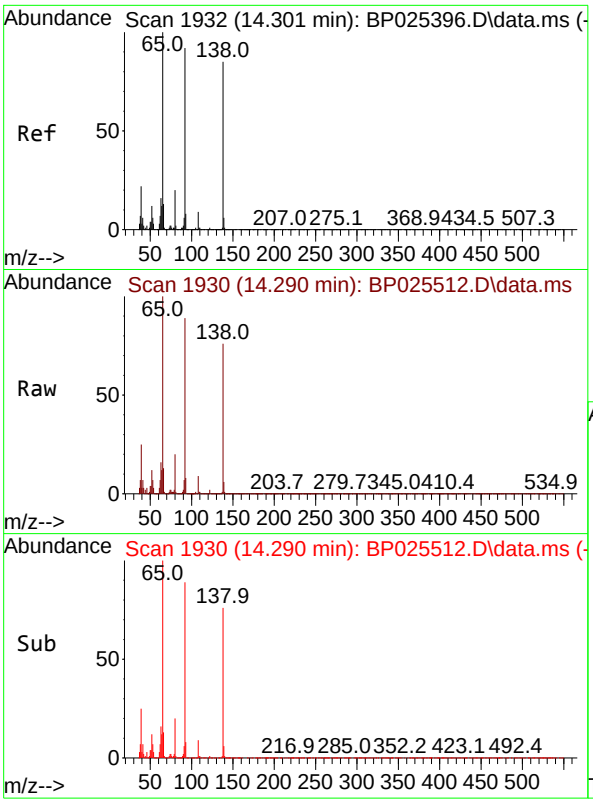


#52
Acenaphthene
Concen: 39.546 ng
RT: 14.460 min Scan# 1959
Delta R.T. -0.006 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Tgt Ion:154 Resp: 771351

Ion	Ratio	Lower	Upper
154	100		
153	111.7	90.2	135.2
152	52.5	42.1	63.1



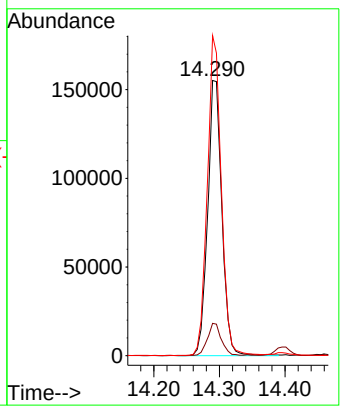


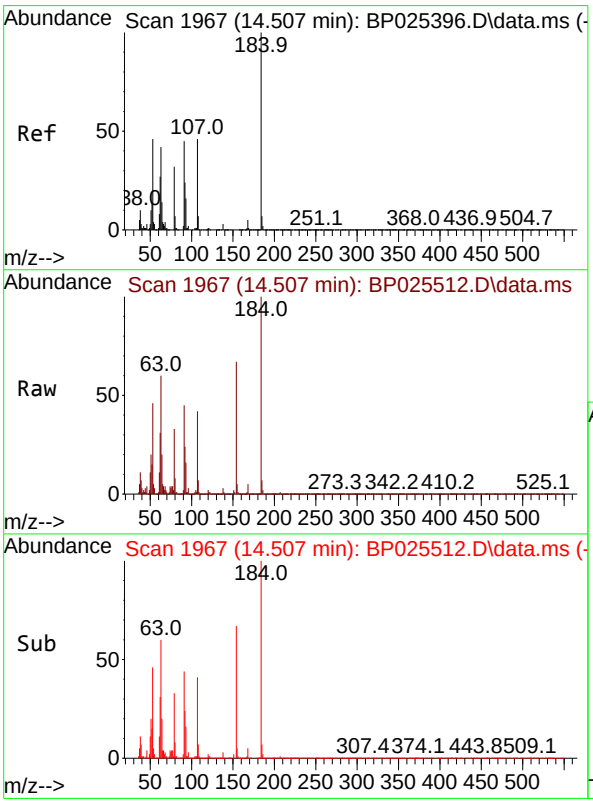
#53
3-Nitroaniline
Concen: 37.912 ng
RT: 14.290 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:138 Resp: 233840

Ion	Ratio	Lower	Upper
138	100		
108	11.8	8.3	12.5
92	116.3	86.2	129.2

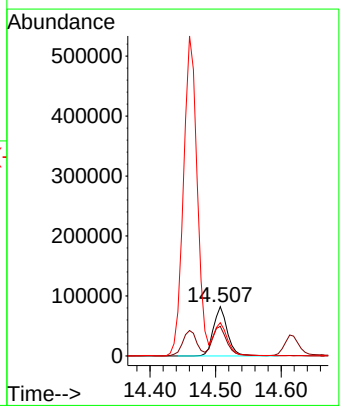


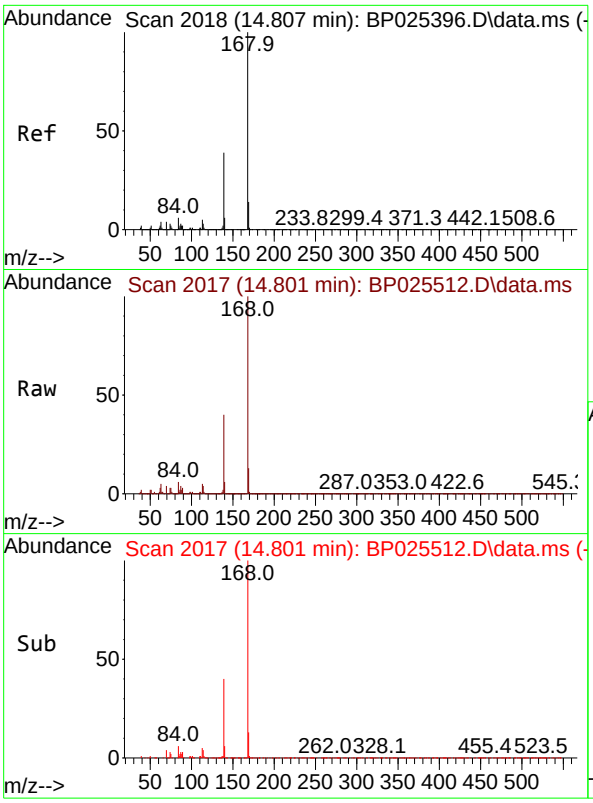


#54
2,4-Dinitrophenol
Concen: 41.686 ng
RT: 14.507 min Scan# 1967
Delta R.T. 0.000 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Tgt Ion:184 Resp: 122042

Ion	Ratio	Lower	Upper
184	100		
63	60.0	49.4	74.2
154	67.5	54.6	82.0



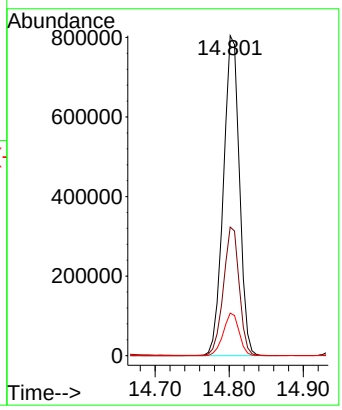


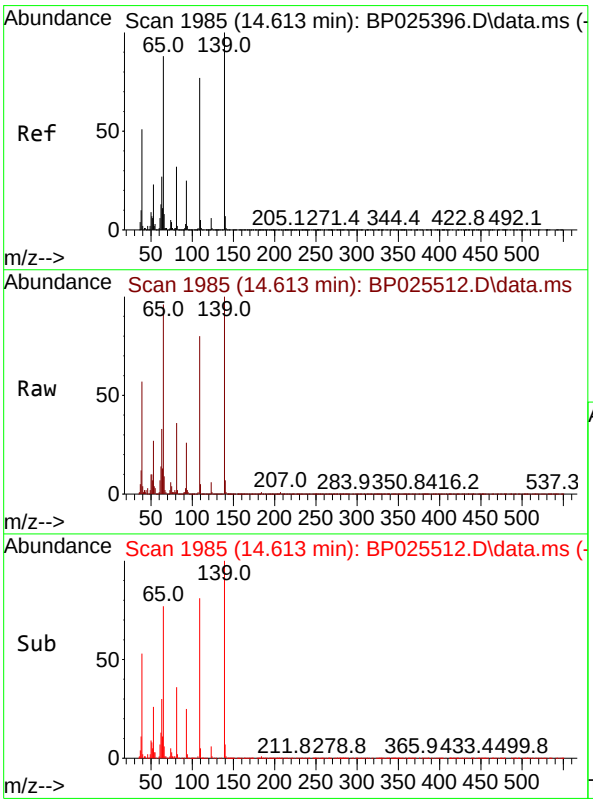
#55
Dibenzofuran
Concen: 39.221 ng
RT: 14.801 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:168 Resp: 1209507

Ion	Ratio	Lower	Upper
168	100		
139	40.2	31.5	47.3
169	13.3	10.9	16.3

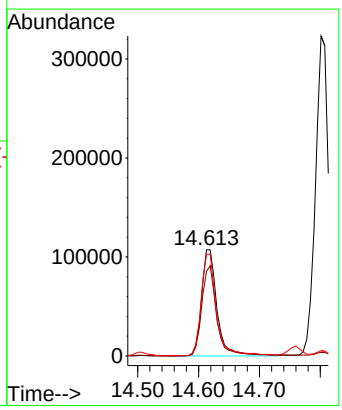


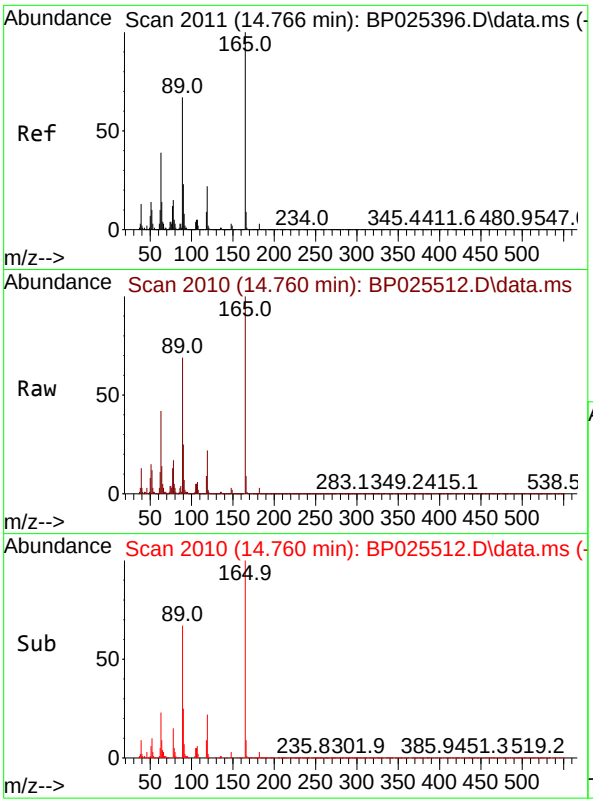


#56
4-Nitrophenol
Concen: 37.212 ng
RT: 14.613 min Scan# 1985
Delta R.T. 0.000 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Tgt Ion:139 Resp: 188606

Ion	Ratio	Lower	Upper
139	100		
109	79.8	56.6	96.6
65	95.8	68.2	108.2



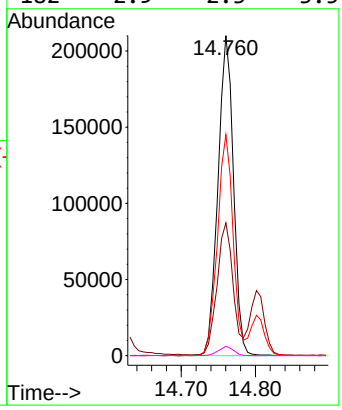


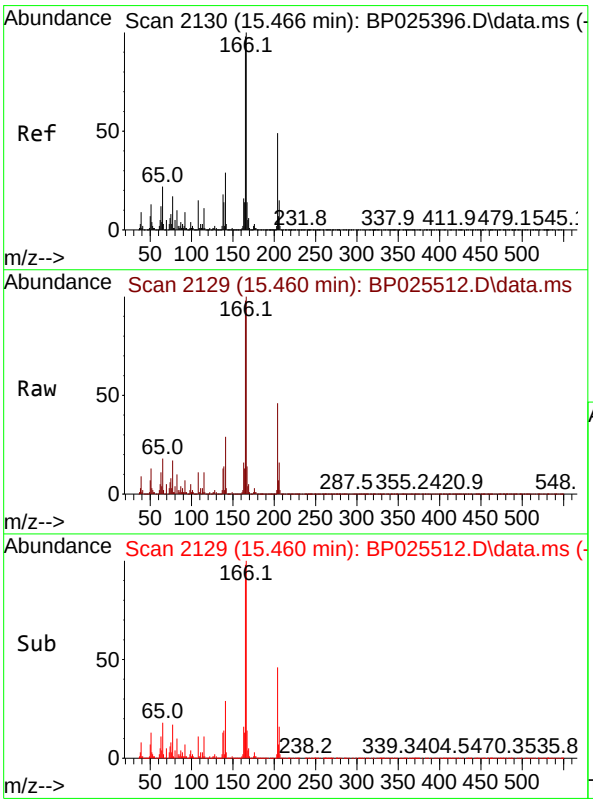
#57
2,4-Dinitrotoluene
Concen: 39.004 ng
RT: 14.760 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:165 Resp: 305079

Ion	Ratio	Lower	Upper
165	100		
63	41.5	31.4	47.2
89	69.1	53.3	79.9
182	2.9	2.3	3.5

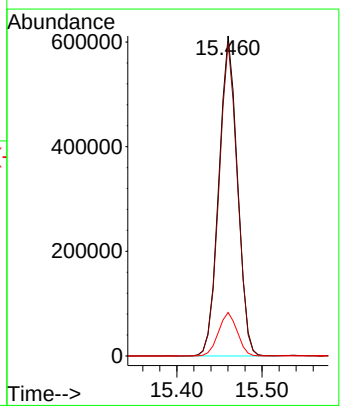


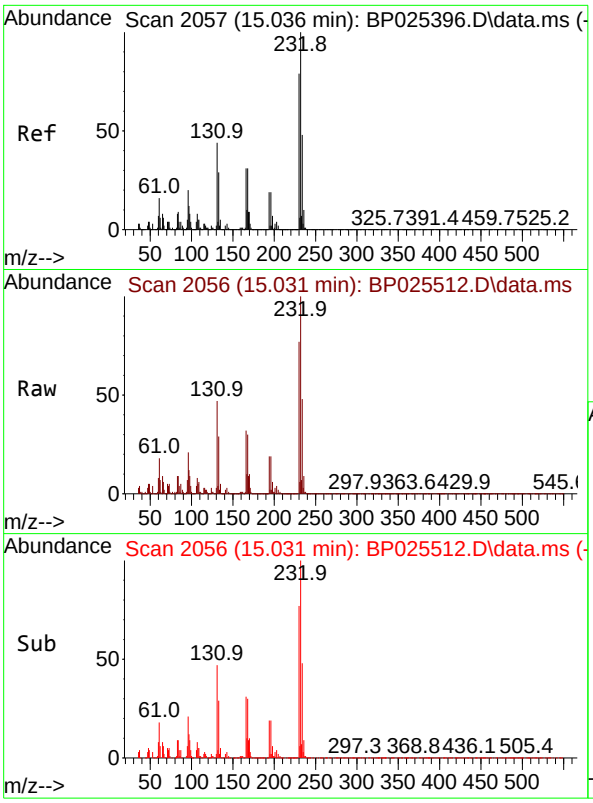


#58
Fluorene
Concen: 38.132 ng
RT: 15.460 min Scan# 2129
Delta R.T. -0.006 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Tgt Ion:166 Resp: 927874

Ion	Ratio	Lower	Upper
166	100		
165	98.0	78.8	118.2
167	13.6	11.0	16.4



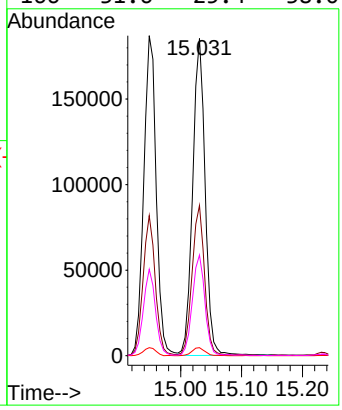


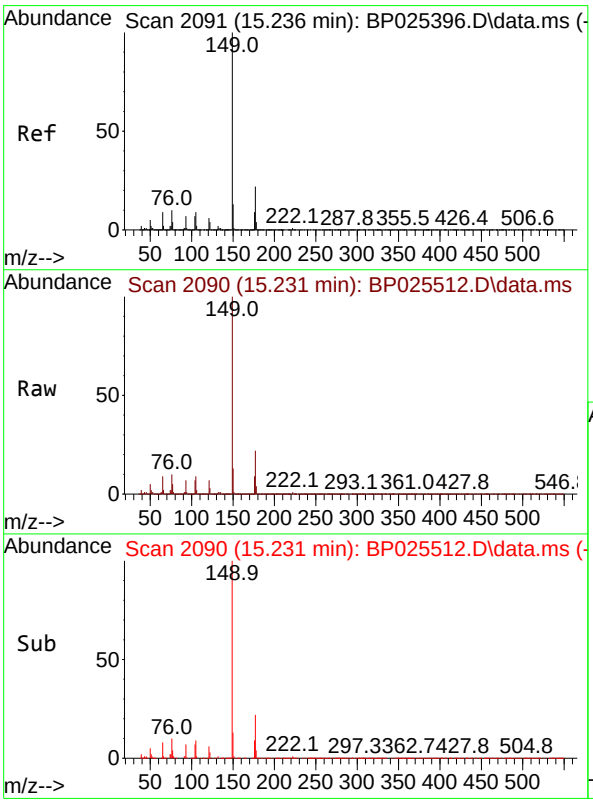
#59
2,3,4,6-Tetrachlorophenol
Concen: 39.405 ng
RT: 15.031 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:232 Resp: 264092

Ion	Ratio	Lower	Upper
232	100		
131	46.7	37.0	55.6
130	2.6	1.9	2.9
166	31.6	25.4	38.0

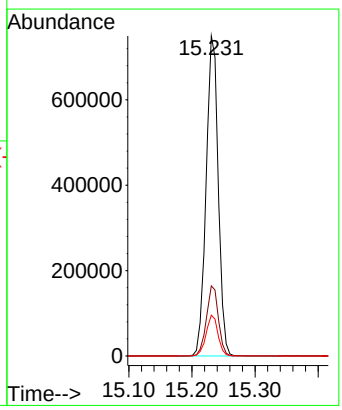


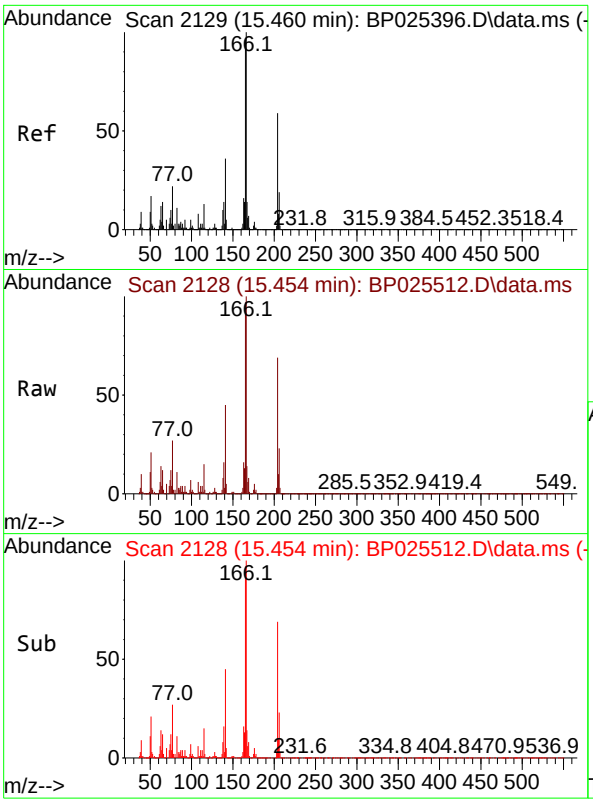


#60
Diethylphthalate
Concen: 37.688 ng
RT: 15.231 min Scan# 2090
Delta R.T. -0.006 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Tgt Ion:149 Resp: 996051

Ion	Ratio	Lower	Upper
149	100		
177	21.9	17.3	25.9
150	12.8	10.3	15.5



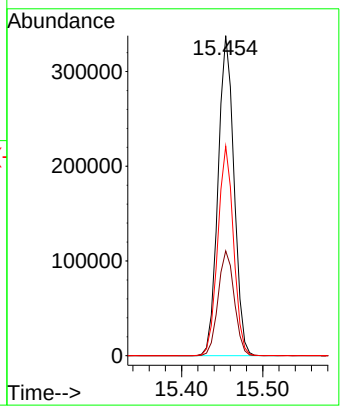


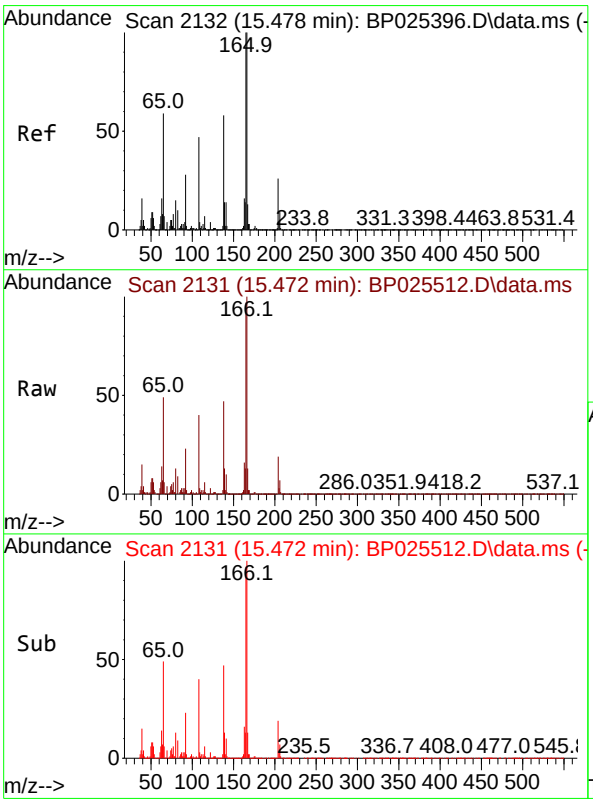
#61
4-Chlorophenyl-phenylether
Concen: 38.204 ng
RT: 15.454 min Scan# 21
Delta R.T. -0.006 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:204 Resp: 462336

Ion	Ratio	Lower	Upper
204	100		
206	32.8	25.8	38.8
141	65.4	49.4	74.2

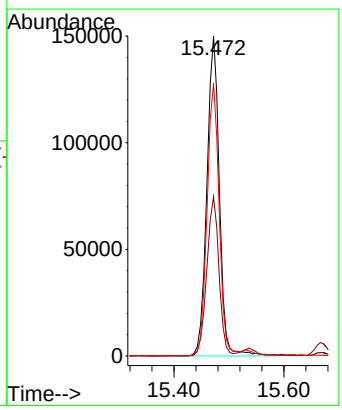


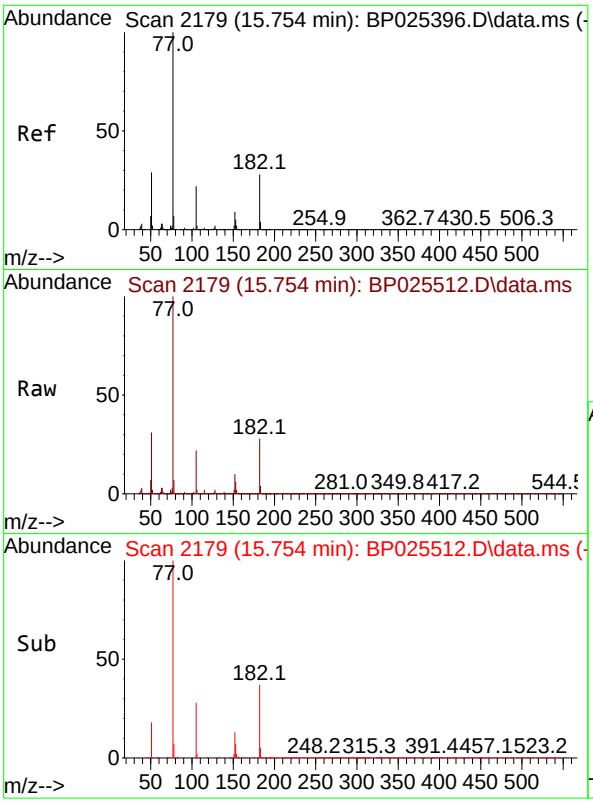


#62
4-Nitroaniline
Concen: 37.321 ng
RT: 15.472 min Scan# 2131
Delta R.T. -0.006 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Tgt Ion:138 Resp: 235988

Ion	Ratio	Lower	Upper
138	100		
92	49.7	29.1	69.1
108	85.2	61.5	101.5



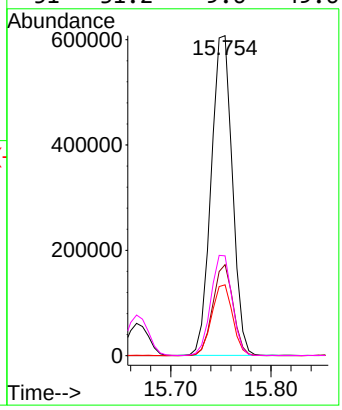


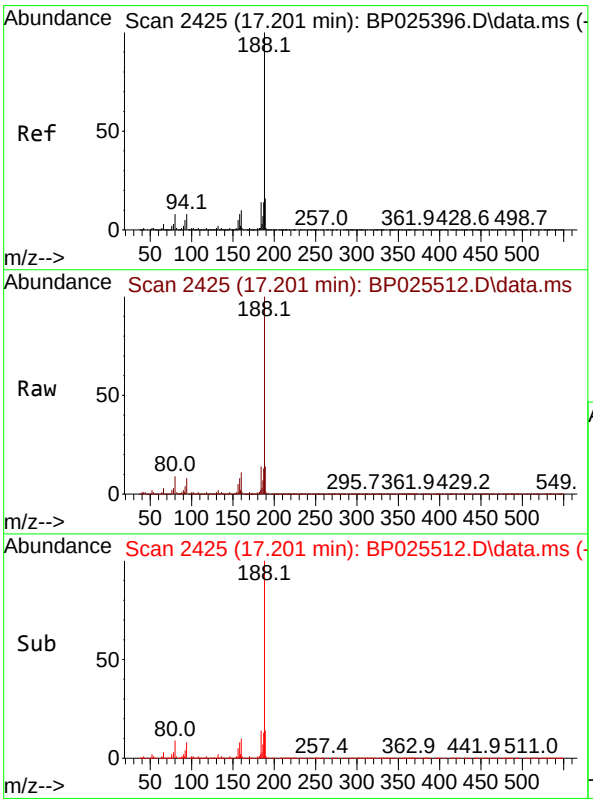
#63
Azobenzene
Concen: 39.346 ng
RT: 15.754 min Scan# 21
Delta R.T. 0.000 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion: 77 Resp: 890410

Ion	Ratio	Lower	Upper
77	100		
182	28.4	7.5	47.5
105	22.1	2.1	42.1
51	31.2	9.6	49.6

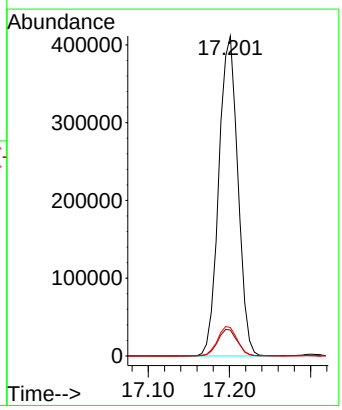


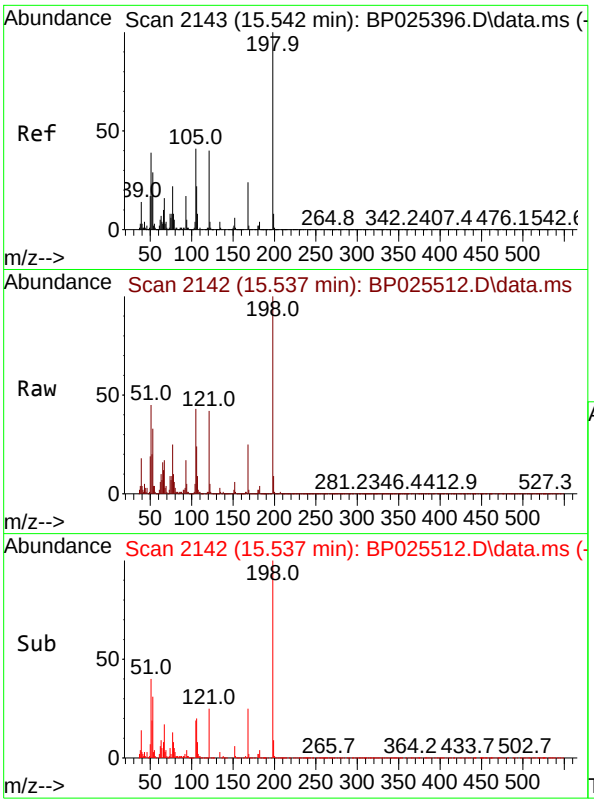


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.201 min Scan# 2425
Delta R.T. 0.000 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Tgt Ion:188 Resp: 670328

Ion	Ratio	Lower	Upper
188	100		
94	8.1	6.6	10.0
80	8.9	6.7	10.1



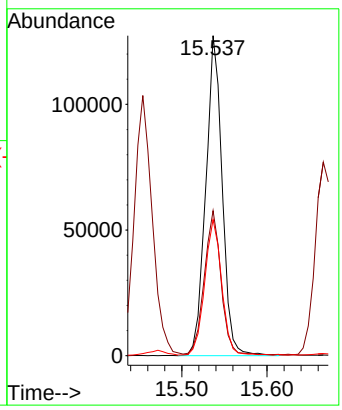


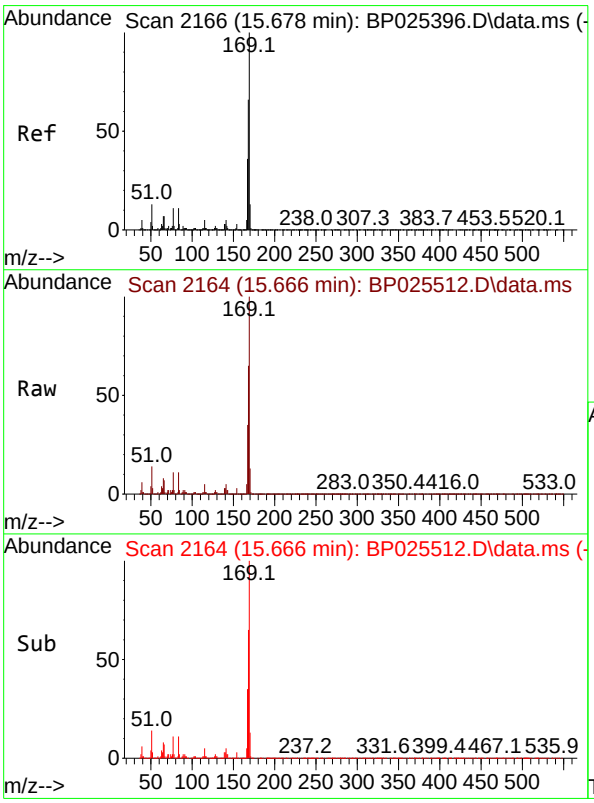
#65
4,6-Dinitro-2-methylphenol
Concen: 40.860 ng
RT: 15.537 min Scan# 21
Delta R.T. -0.006 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:198 Resp: 170735

Ion	Ratio	Lower	Upper
198	100		
51	45.3	19.6	59.6
105	42.5	20.9	60.9

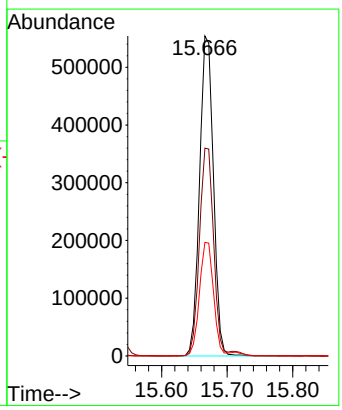


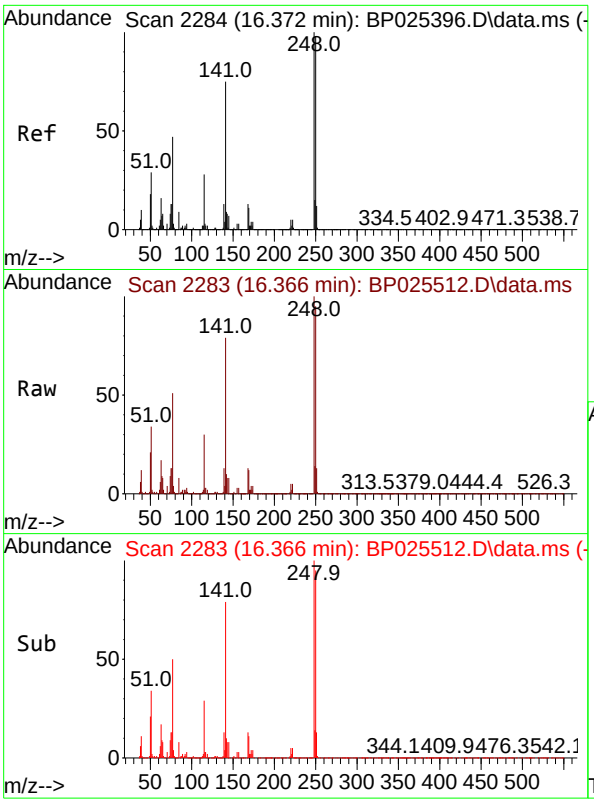


#66
n-Nitrosodiphenylamine
Concen: 39.942 ng
RT: 15.666 min Scan# 2164
Delta R.T. -0.012 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Tgt Ion:169 Resp: 816452

Ion	Ratio	Lower	Upper
169	100		
168	65.0	53.2	79.8
167	35.5	28.7	43.1



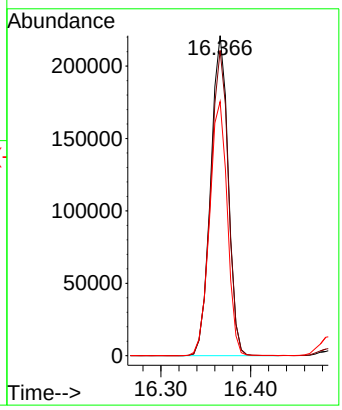


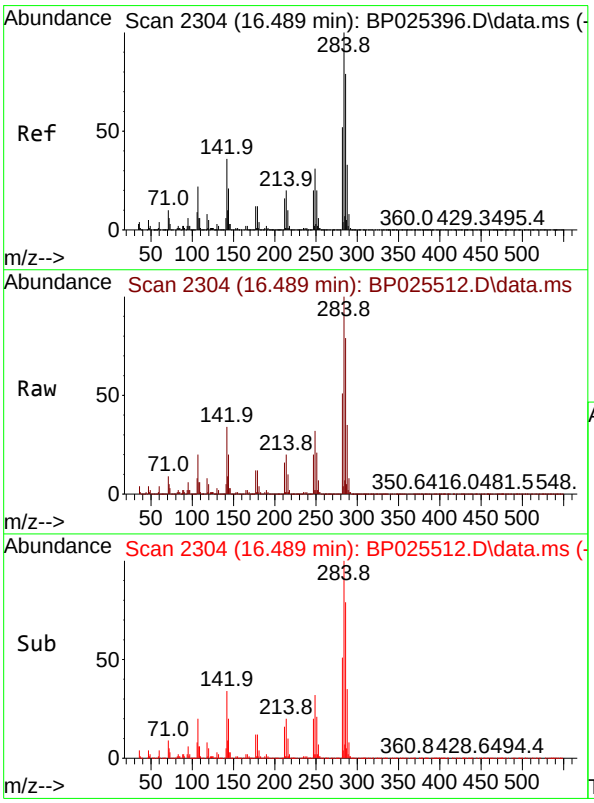
#67
4-Bromophenyl-phenylether
Concen: 40.668 ng
RT: 16.366 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:248 Resp: 299821

Ion	Ratio	Lower	Upper
248	100		
250	95.4	78.2	117.2
141	79.4	59.6	89.4

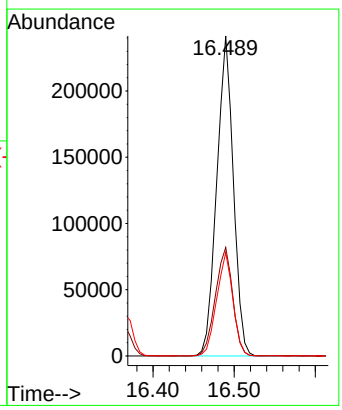


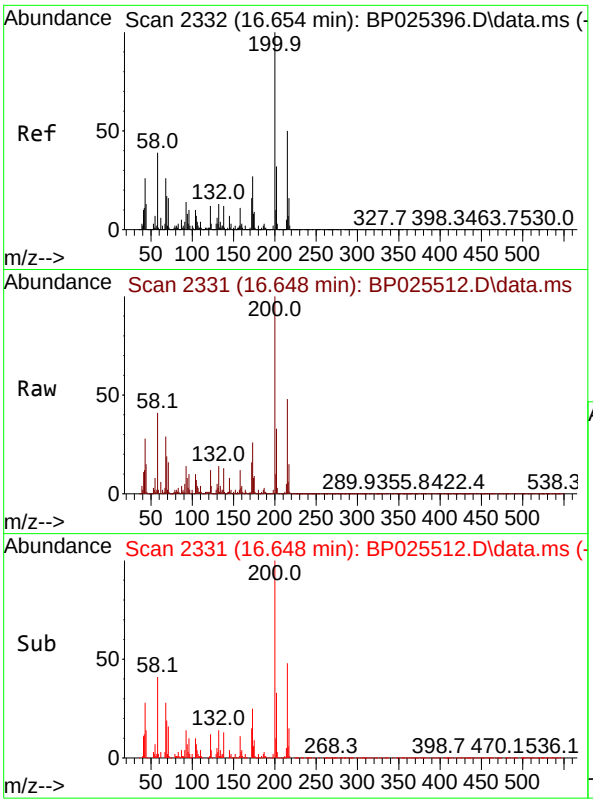


#68
Hexachlorobenzene
Concen: 40.230 ng
RT: 16.489 min Scan# 2304
Delta R.T. 0.000 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Tgt Ion:284 Resp: 343811

Ion	Ratio	Lower	Upper
284	100		
142	33.9	29.1	43.7
249	32.3	25.0	37.4



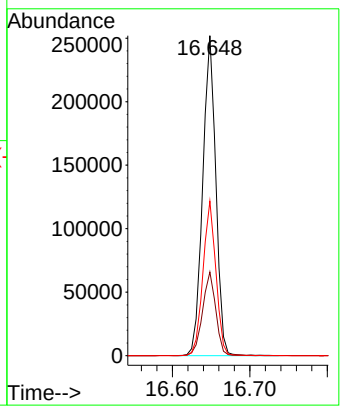


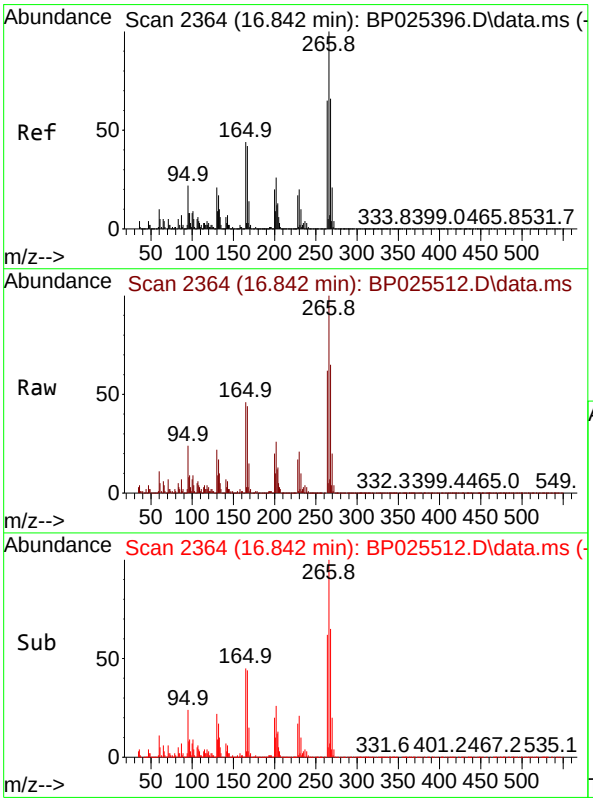
#69
Atrazine
Concen: 38.670 ng
RT: 16.648 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:200 Resp: 296023

Ion	Ratio	Lower	Upper
200	100		
173	26.2	6.7	46.7
215	48.3	29.7	69.7

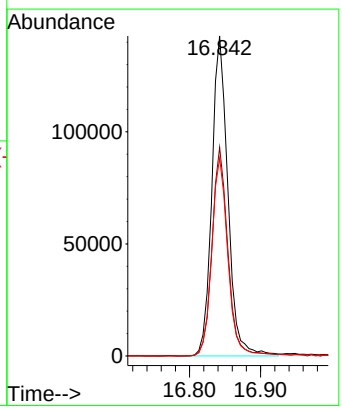


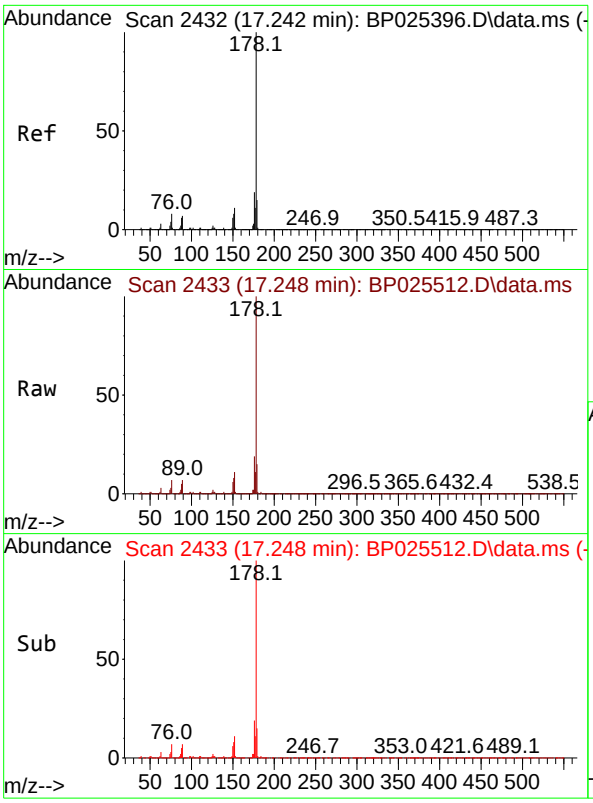


#70
Pentachlorophenol
Concen: 41.514 ng
RT: 16.842 min Scan# 2364
Delta R.T. 0.000 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Tgt Ion:266 Resp: 223956

Ion	Ratio	Lower	Upper
266	100		
268	65.2	52.6	79.0
264	61.8	52.0	78.0



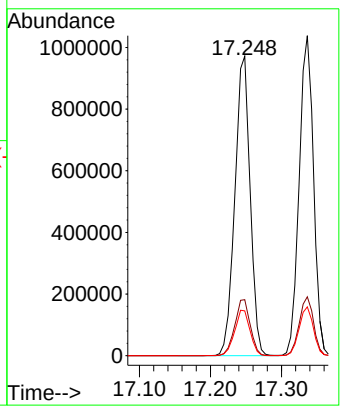


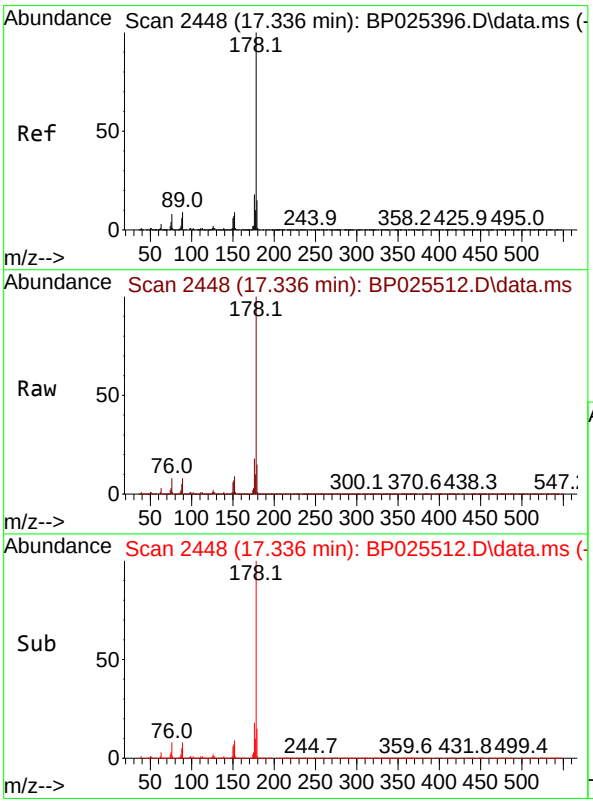
#71
Phenanthrene
Concen: 39.517 ng
RT: 17.248 min Scan# 24
Delta R.T. 0.006 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:178 Resp: 1455152

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.5	23.3
179	15.0	12.2	18.4

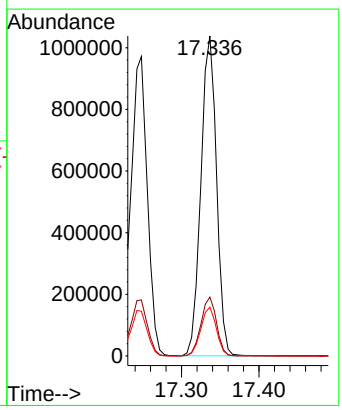


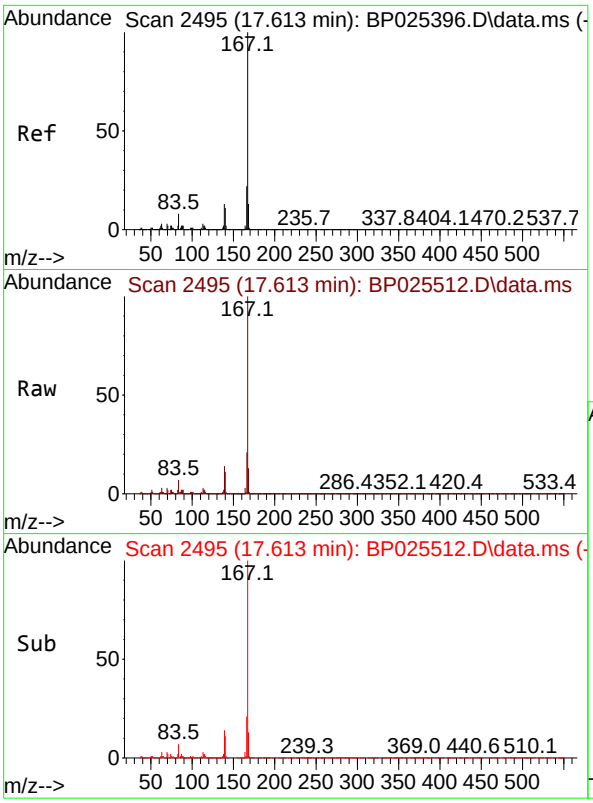


#72
Anthracene
Concen: 38.632 ng
RT: 17.336 min Scan# 2448
Delta R.T. 0.000 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Tgt Ion:178 Resp: 1452720

Ion	Ratio	Lower	Upper
178	100		
176	18.4	14.7	22.1
179	15.2	12.2	18.2



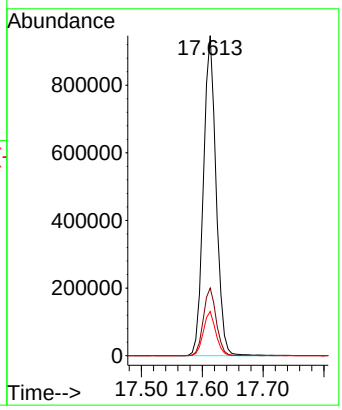


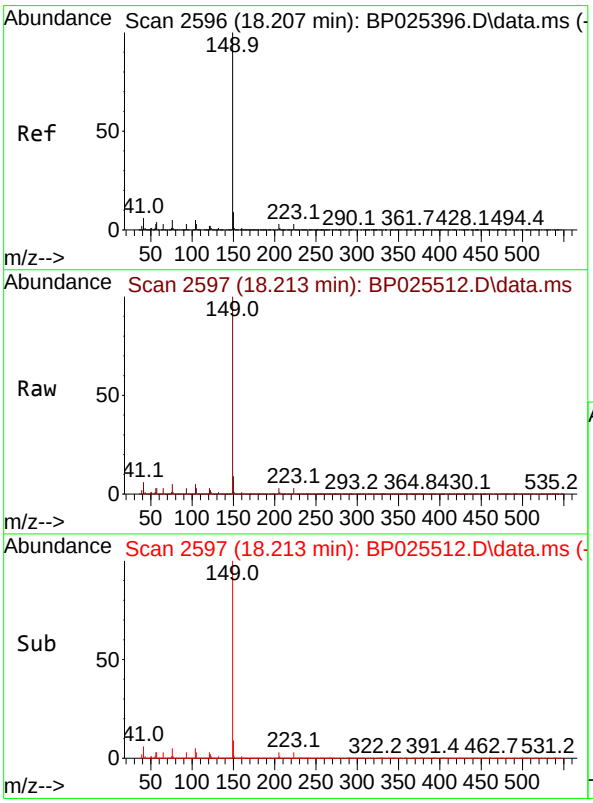
#73
Carbazole
Concen: 38.700 ng
RT: 17.613 min Scan# 24
Delta R.T. 0.000 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:167 Resp: 1370739

Ion	Ratio	Lower	Upper
167	100		
166	21.2	17.5	26.3
139	13.8	10.6	16.0

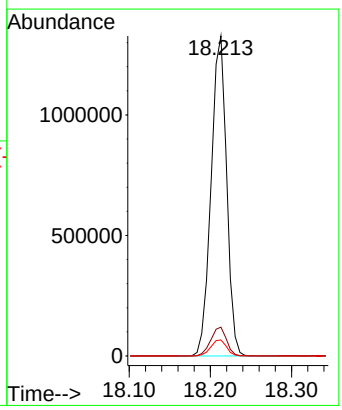


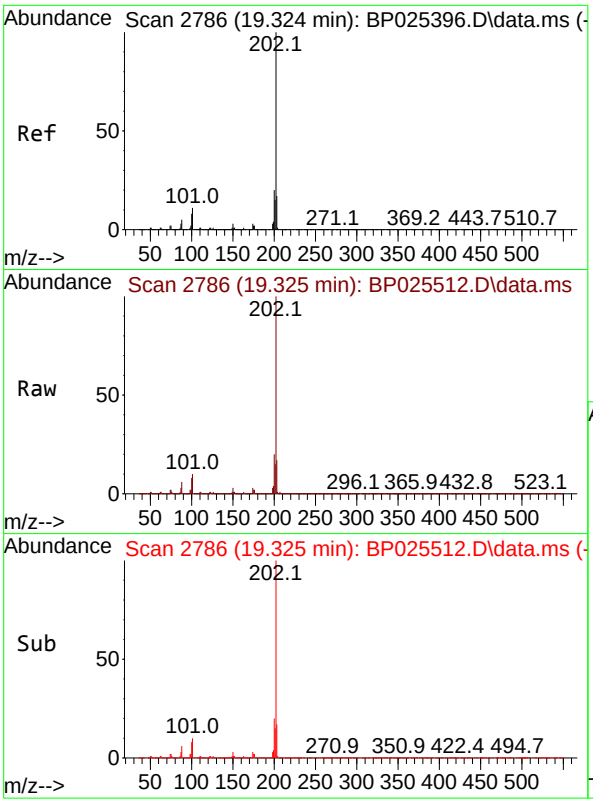


#74
Di-n-butylphthalate
Concen: 40.436 ng
RT: 18.213 min Scan# 2597
Delta R.T. 0.006 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Tgt Ion:149 Resp: 1762119

Ion	Ratio	Lower	Upper
149	100		
150	9.0	7.4	11.0
104	5.0	4.2	6.2



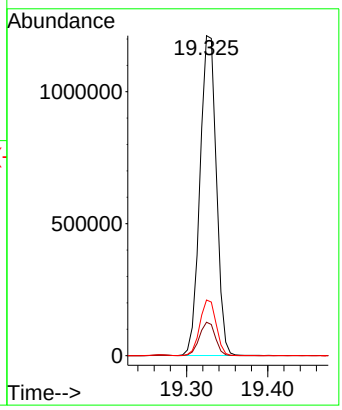


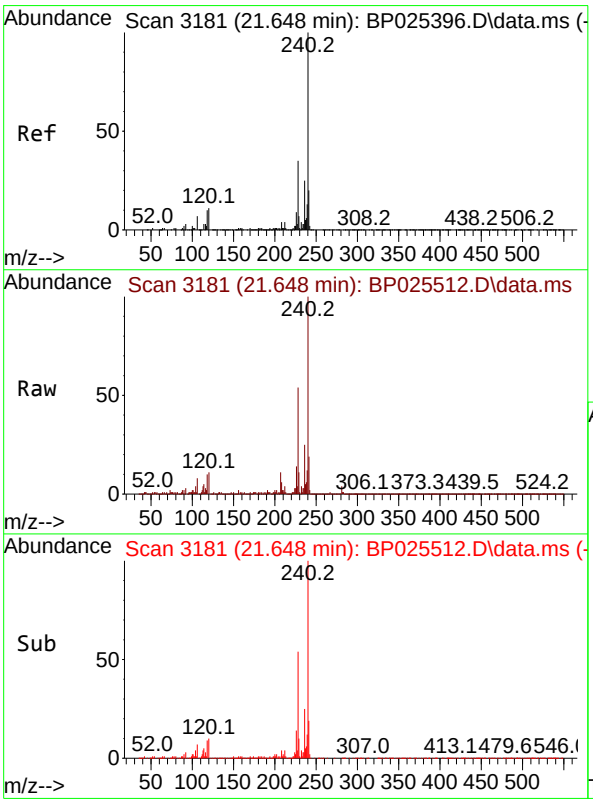
#75
Fluoranthene
Concen: 38.675 ng
RT: 19.325 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:202 Resp: 1698750

Ion	Ratio	Lower	Upper
202	100		
101	10.4	0.0	31.1
203	17.4	0.0	37.3

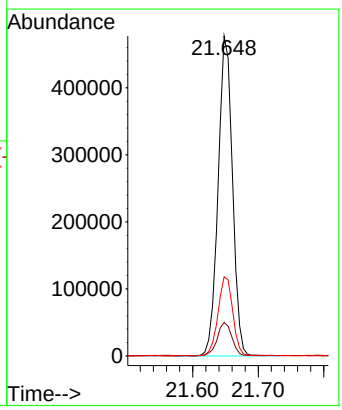


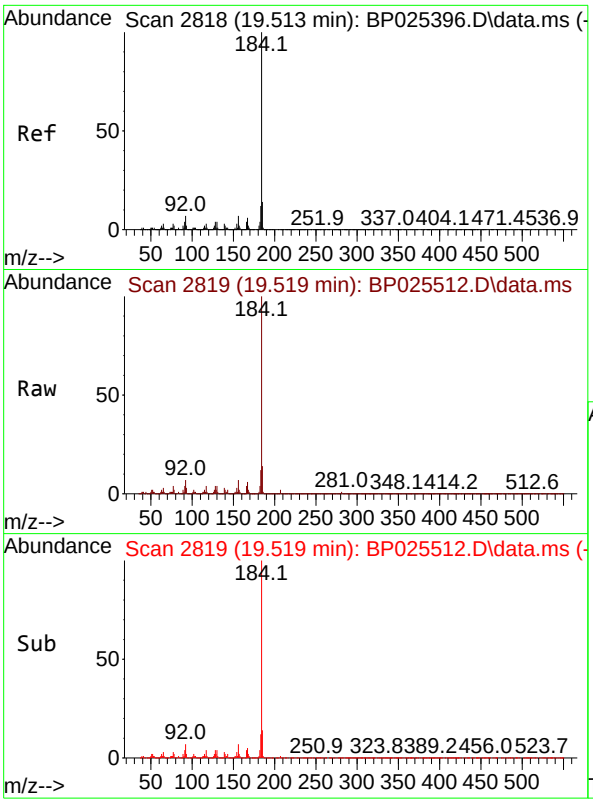


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.648 min Scan# 3181
Delta R.T. 0.000 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Tgt Ion:240 Resp: 721835

Ion	Ratio	Lower	Upper
240	100		
120	10.5	8.9	13.3
236	24.8	19.8	29.8



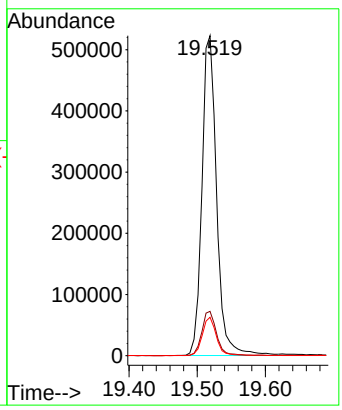


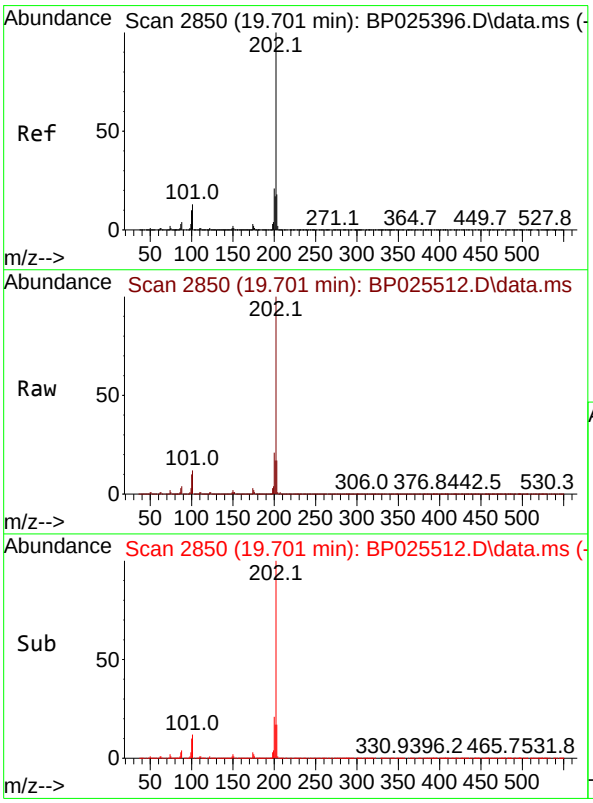
#77
Benzidine
Concen: 31.831 ng
RT: 19.519 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:184 Resp: 784158

Ion	Ratio	Lower	Upper
184	100		
185	13.8	11.5	17.3
183	12.0	9.4	14.2

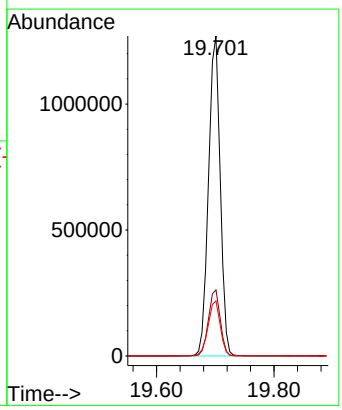


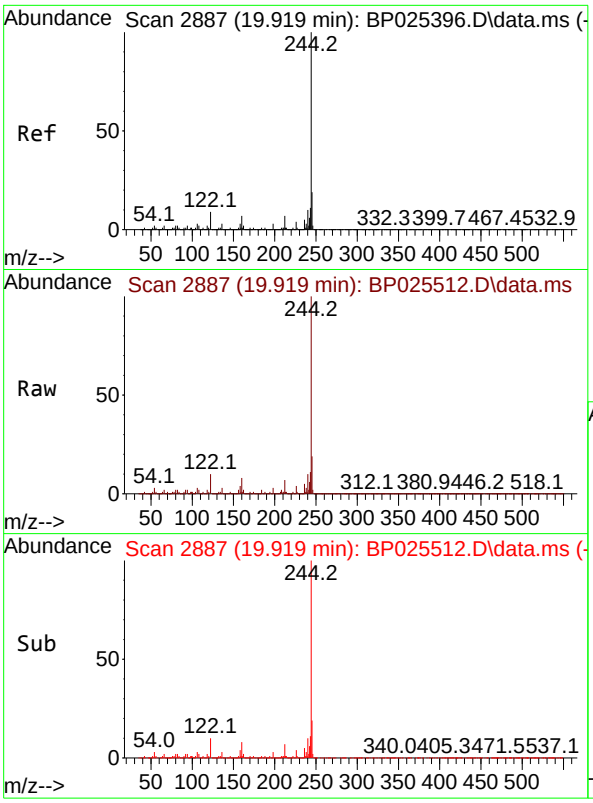


#78
Pyrene
Concen: 37.531 ng
RT: 19.701 min Scan# 2850
Delta R.T. 0.000 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Tgt Ion:202 Resp: 1760829

Ion	Ratio	Lower	Upper
202	100		
200	20.6	16.9	25.3
203	17.2	14.2	21.2



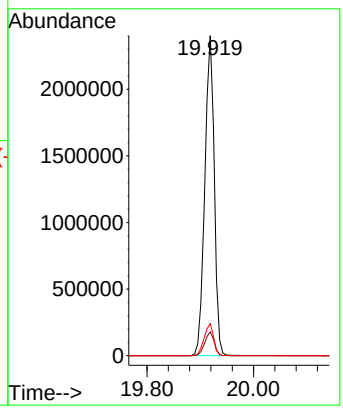


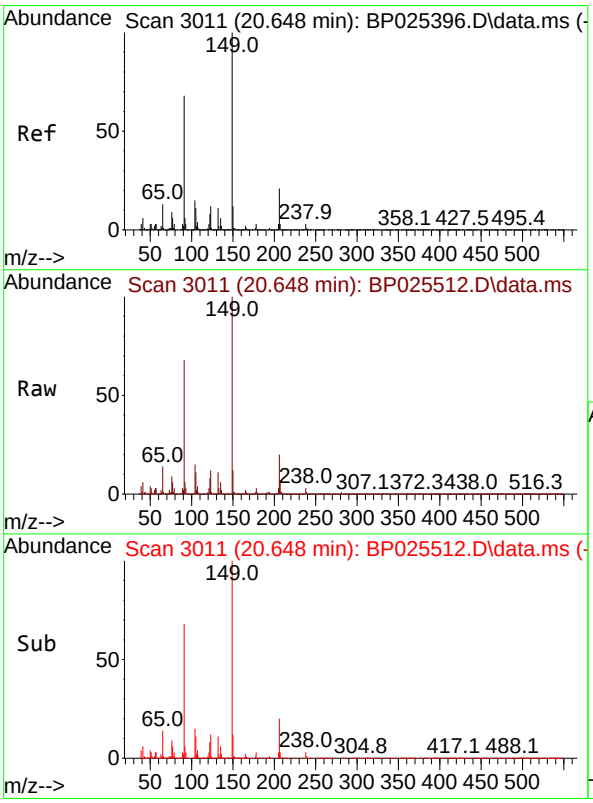
#79
Terphenyl-d14
Concen: 74.739 ng
RT: 19.919 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:244 Resp: 2948745

Ion	Ratio	Lower	Upper
244	100		
212	7.4	5.8	8.6
122	10.0	7.4	11.2

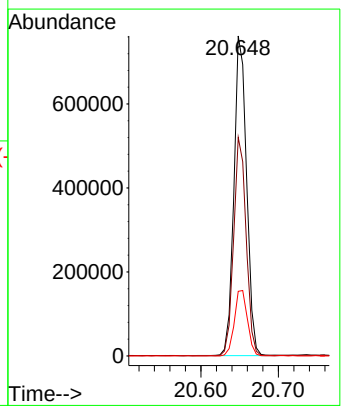


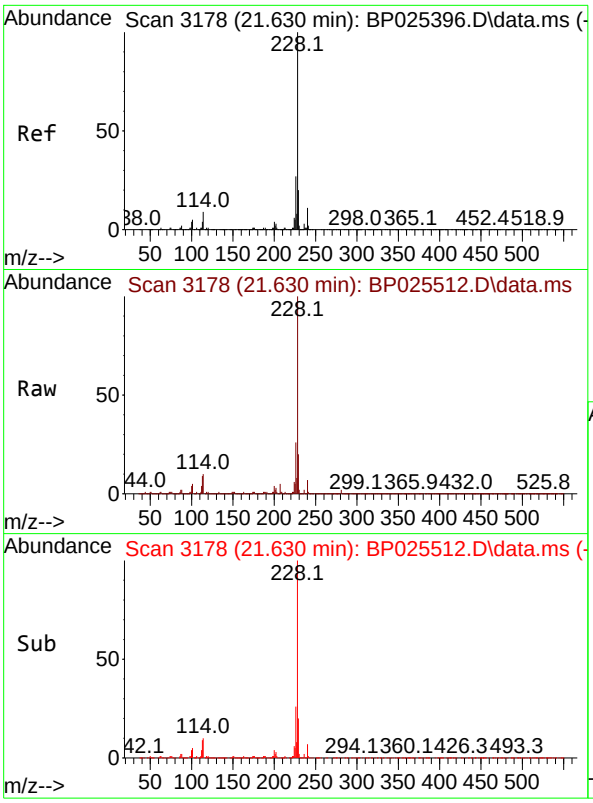


#80
Butylbenzylphthalate
Concen: 40.760 ng
RT: 20.648 min Scan# 3011
Delta R.T. 0.000 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Tgt Ion:149 Resp: 866705

Ion	Ratio	Lower	Upper
149	100		
91	68.3	54.2	81.2
206	20.2	16.6	24.8



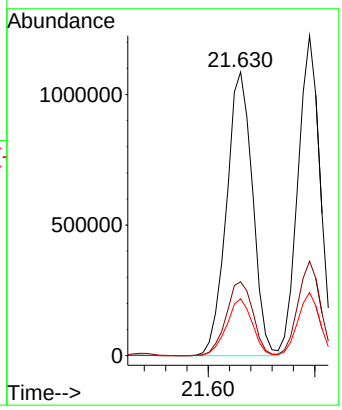


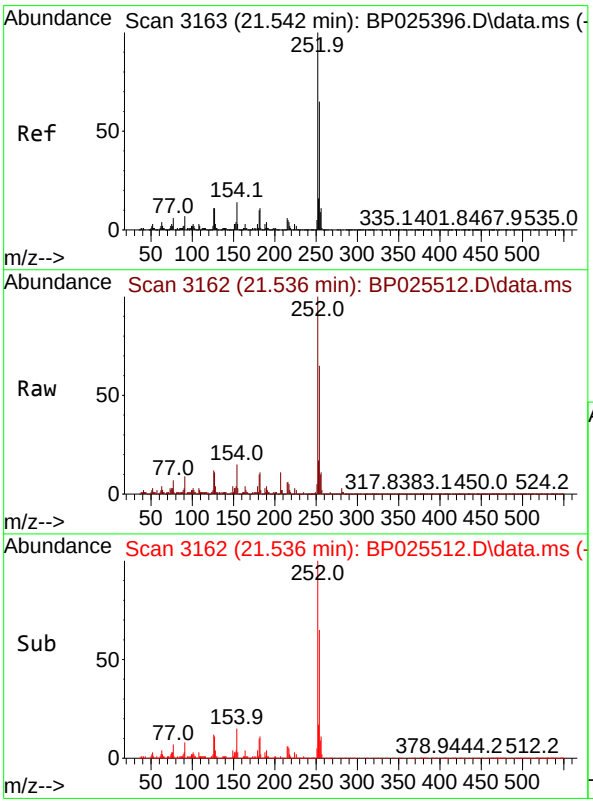
#81
Benzo(a)anthracene
Concen: 38.784 ng
RT: 21.630 min Scan# 3
Delta R.T. 0.000 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:228 Resp: 1846325

Ion	Ratio	Lower	Upper
228	100		
226	26.1	21.7	32.5
229	20.1	15.6	23.4

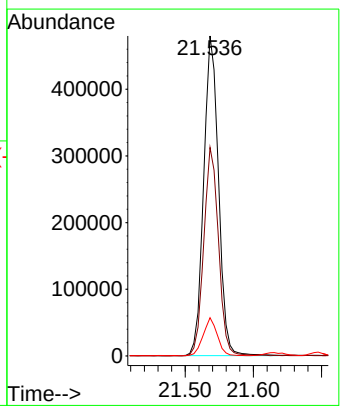


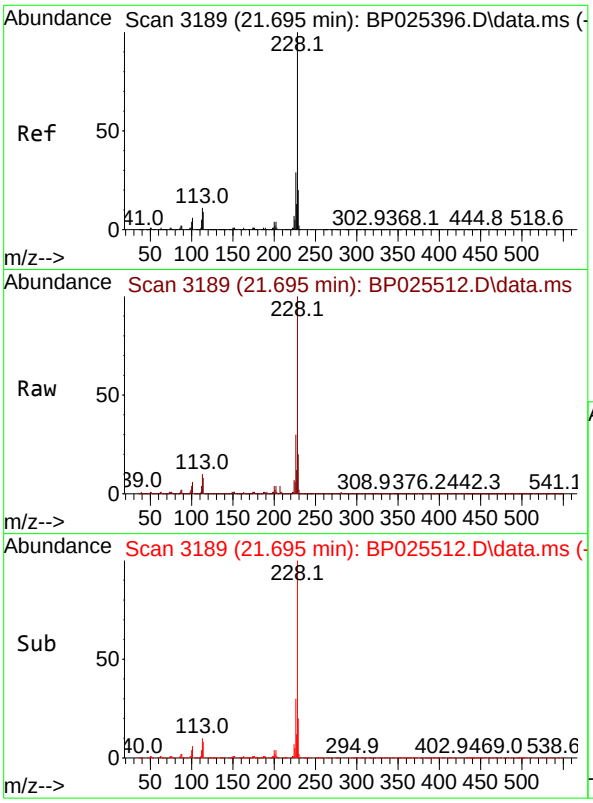


#82
3,3'-Dichlorobenzidine
Concen: 40.475 ng
RT: 21.536 min Scan# 3162
Delta R.T. -0.006 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Tgt Ion:252 Resp: 726259

Ion	Ratio	Lower	Upper
252	100		
254	65.2	51.8	77.6
126	11.9	9.1	13.7



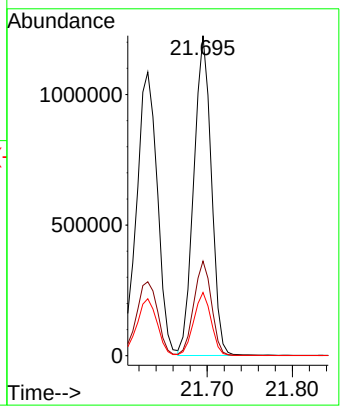


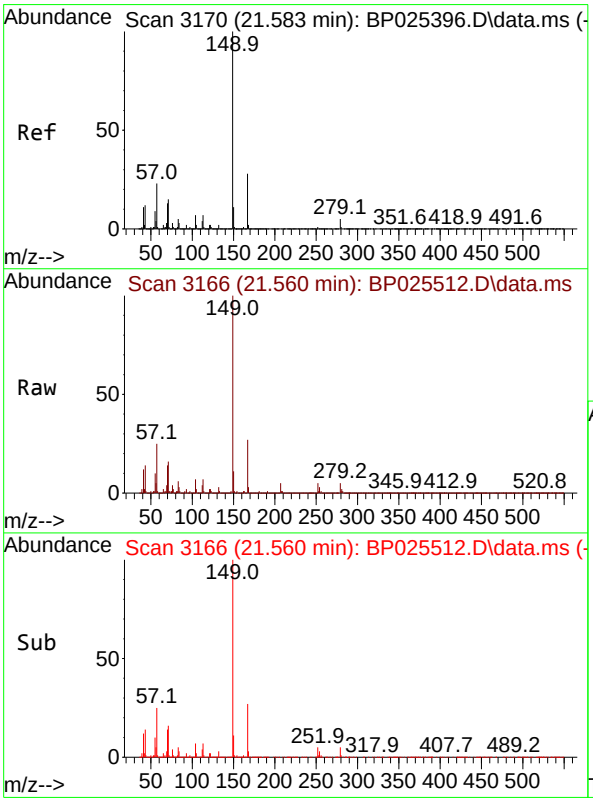
#83
Chrysene
Concen: 39.282 ng
RT: 21.695 min Scan# 3
Delta R.T. 0.000 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:228 Resp: 1751270

Ion	Ratio	Lower	Upper
228	100		
226	29.6	23.2	34.8
229	19.8	15.6	23.4

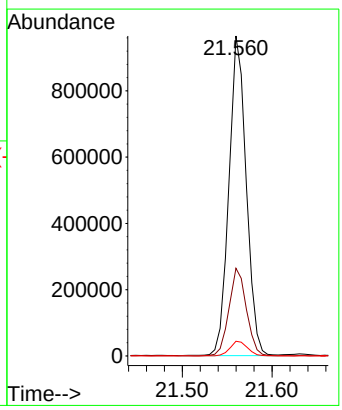


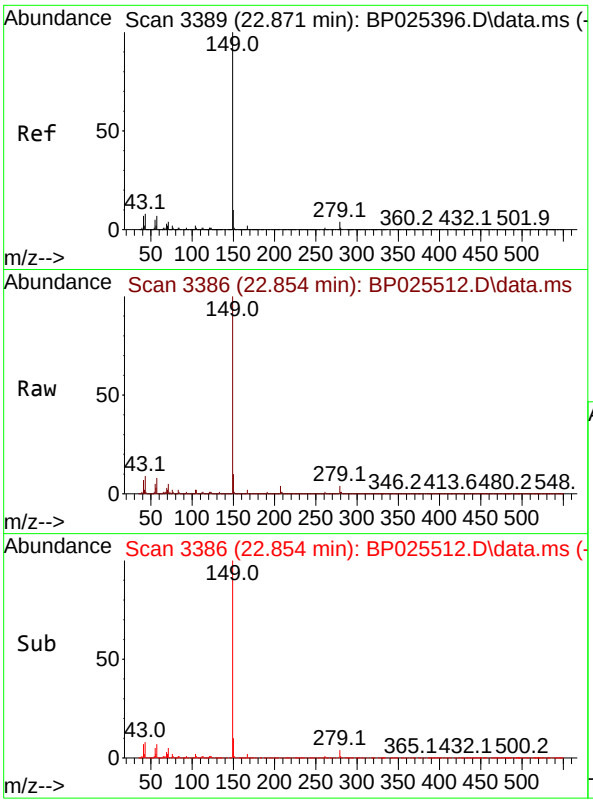


#84
Bis(2-ethylhexyl)phthalate
Concen: 41.288 ng
RT: 21.560 min Scan# 3166
Delta R.T. -0.023 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Tgt Ion:149 Resp: 1292335

Ion	Ratio	Lower	Upper
149	100		
167	27.4	22.1	33.1
279	4.6	3.8	5.6



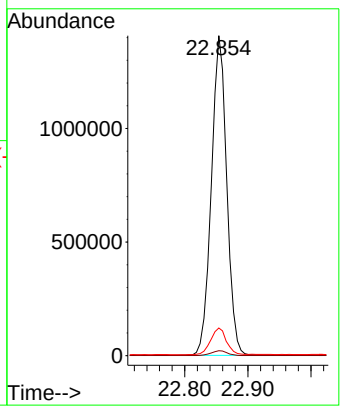


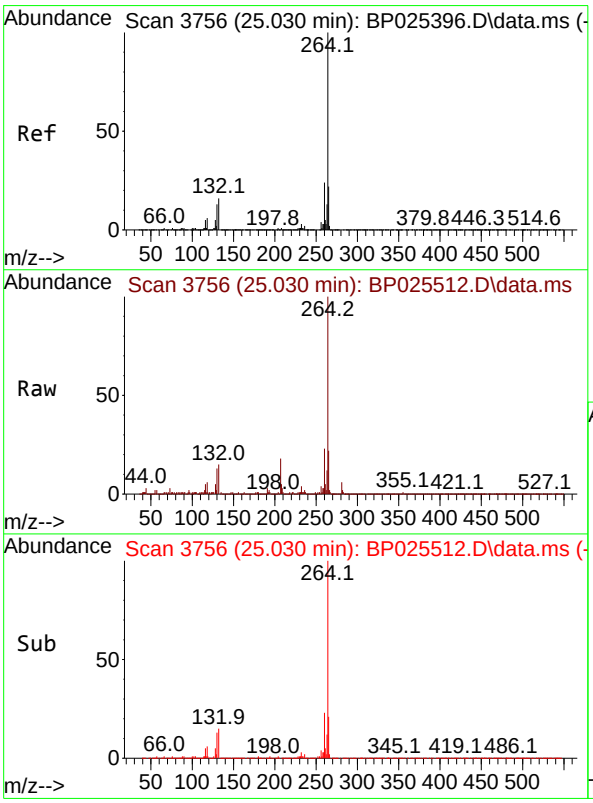
#85
Di-n-octyl phthalate
Concen: 44.204 ng
RT: 22.854 min Scan# 3
Delta R.T. -0.018 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:149 Resp: 2379874

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	8.6	6.3	9.5

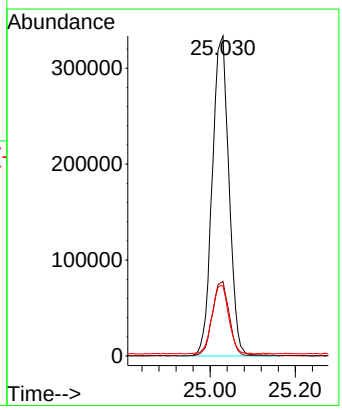


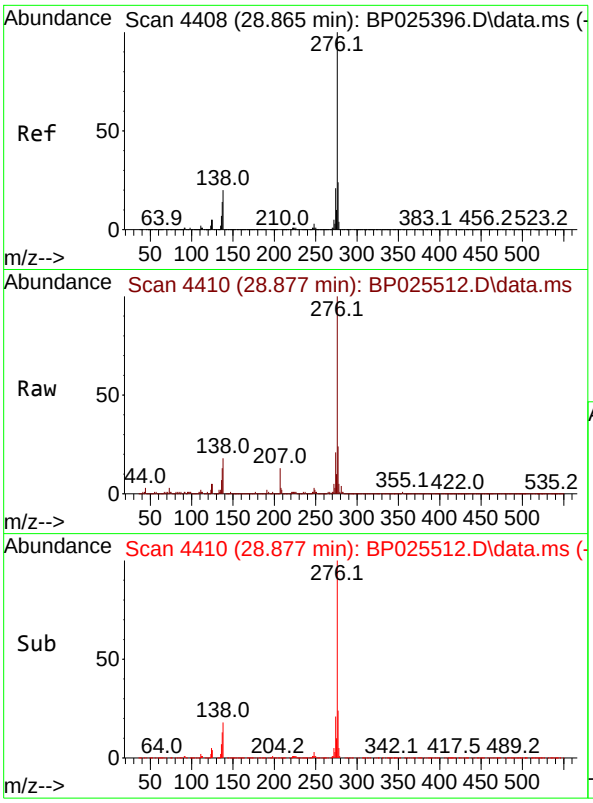


#86
Perylene-d12
Concen: 20.000 ng
RT: 25.030 min Scan# 3756
Delta R.T. 0.000 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Tgt Ion:264 Resp: 911460

Ion	Ratio	Lower	Upper
264	100		
260	23.3	19.3	28.9
265	21.9	17.4	26.0



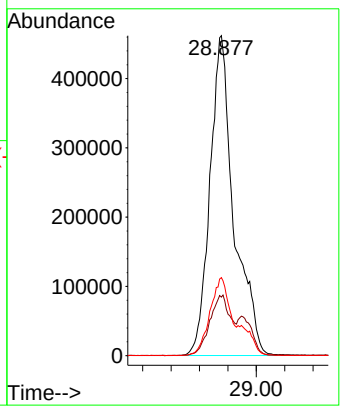


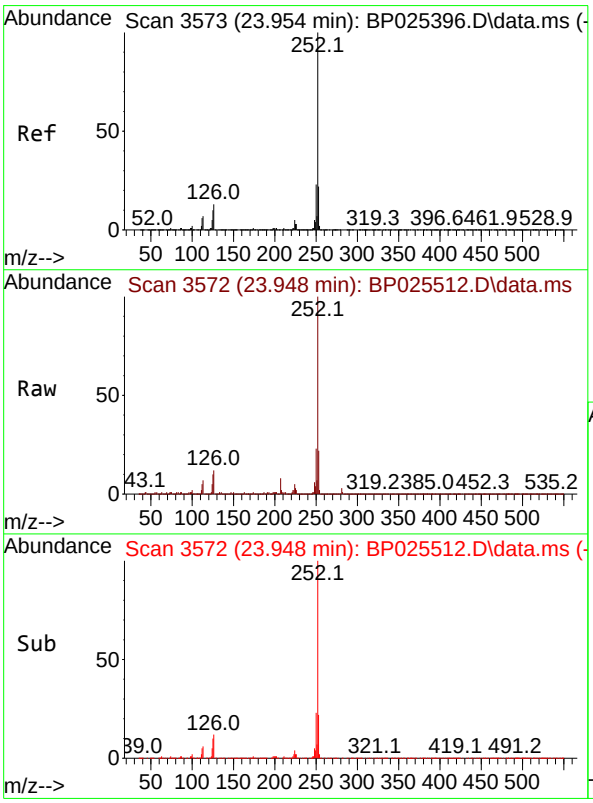
#87
Indeno(1,2,3-cd)pyrene
Concen: 40.465 ng
RT: 28.877 min Scan# 44
Delta R.T. 0.012 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:276 Resp: 2704805

Ion	Ratio	Lower	Upper
276	100		
138	16.7	12.9	19.3
277	20.2	17.0	25.6

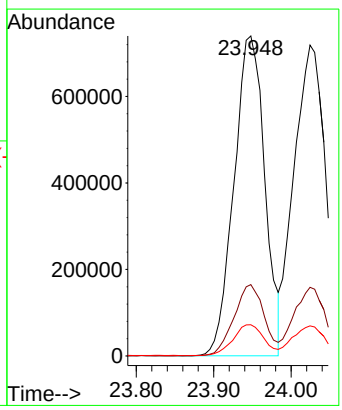


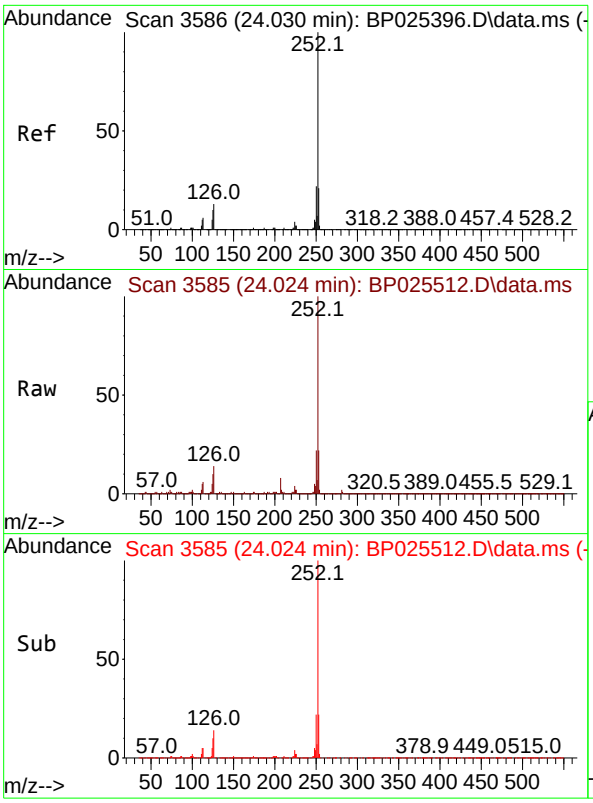


#88
Benzo(b)fluoranthene
Concen: 38.021 ng
RT: 23.948 min Scan# 3572
Delta R.T. -0.006 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Tgt Ion:252 Resp: 2043506

Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.7	26.5
125	9.8	7.9	11.9



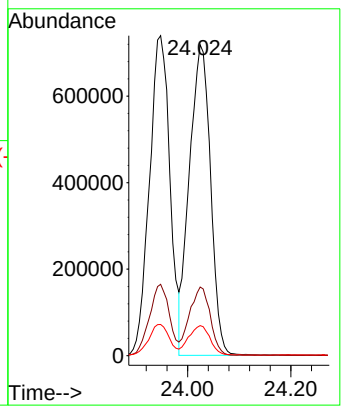


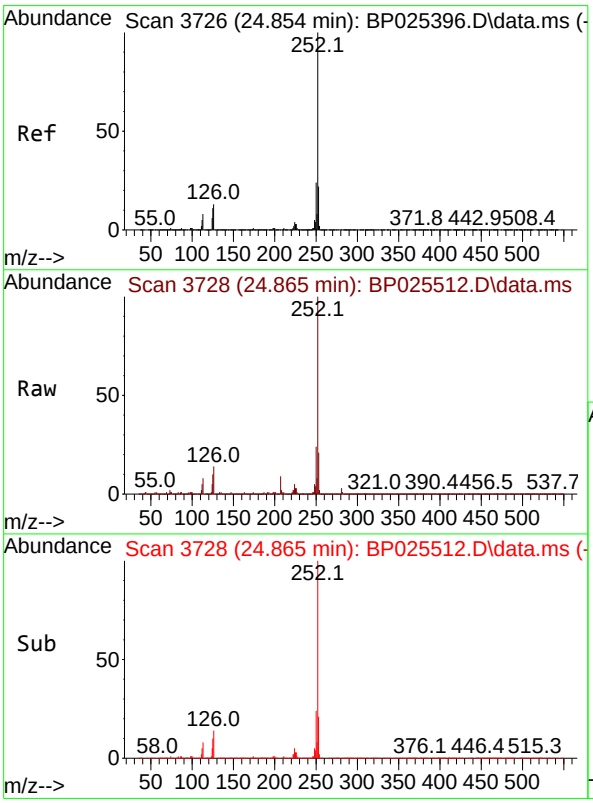
#89
Benzo(k)fluoranthene
Concen: 37.913 ng
RT: 24.024 min Scan# 3
Delta R.T. -0.006 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:252 Resp: 2039061

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.1	25.7
125	9.7	7.8	11.6

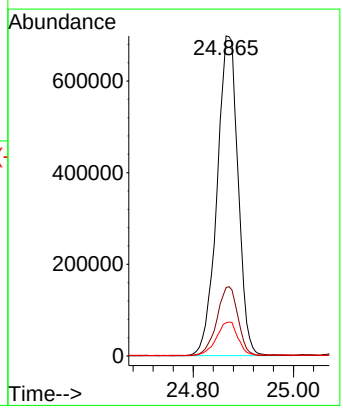


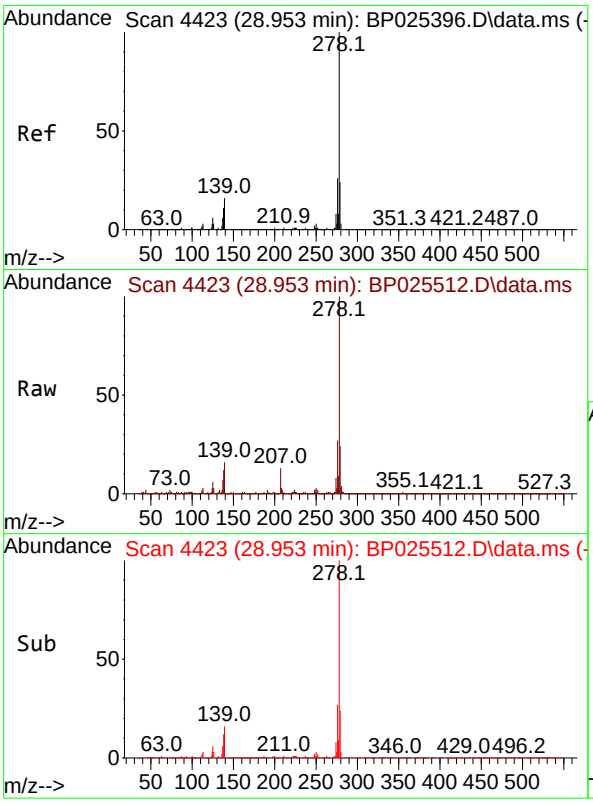


#90
Benzo(a)pyrene
Concen: 38.861 ng
RT: 24.865 min Scan# 3728
Delta R.T. 0.012 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Tgt Ion:252 Resp: 2033101

Ion	Ratio	Lower	Upper
252	100		
253	21.4	17.5	26.3
125	10.3	8.7	13.1



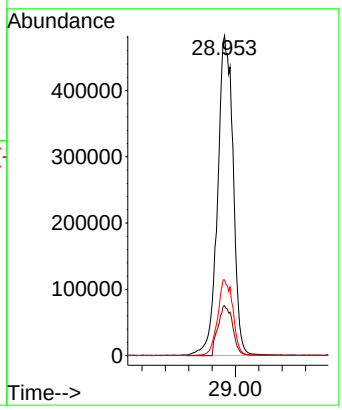


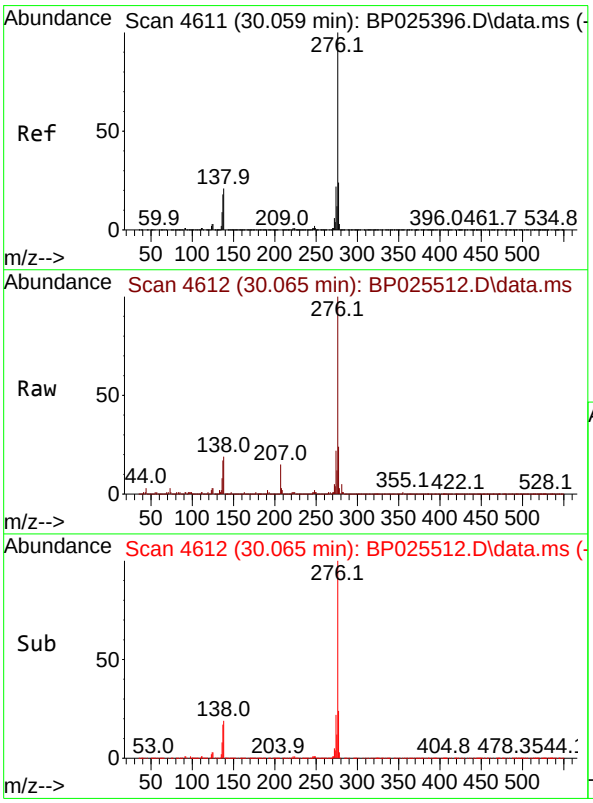
#91
Dibenzo(a,h)anthracene
Concen: 40.707 ng
RT: 28.953 min Scan# 4
Delta R.T. 0.000 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:278 Resp: 2223603

Ion	Ratio	Lower	Upper
278	100		
139	15.7	13.0	19.4
279	23.7	19.4	29.2

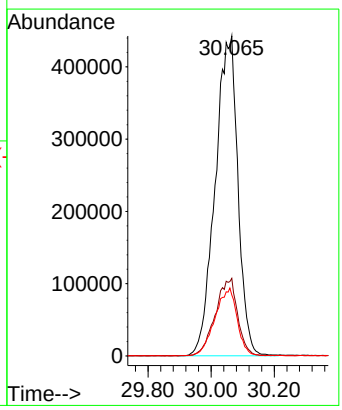




#92
Benzo(g,h,i)perylene
Concen: 41.164 ng
RT: 30.065 min Scan# 4612
Delta R.T. 0.006 min
Lab File: BP025512.D
Acq: 20 Aug 2025 18:27

Tgt Ion:276 Resp: 2210310

Ion	Ratio	Lower	Upper
276	100		
277	24.2	19.4	29.0
138	19.1	16.7	25.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025512.D
Acq On : 20 Aug 2025 18:27
Operator : CG/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: Aug 21 01:35:49 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 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	105	0.00
2		1,4-Dioxane	0.472	0.489	-3.6	116	0.00
3		Pyridine	1.291	1.243	3.7	107	0.00
4		n-Nitrosodimethylamine	0.532	0.570	-7.1	118	0.00
5	S	2-Fluorophenol	1.204	1.232	-2.3	112	0.00
6		Aniline	2.080	1.965	5.5	102	0.00
7	S	Phenol-d6	1.544	1.491	3.4	104	0.00
8		2-Chlorophenol	1.359	1.324	2.6	106	0.00
9		Benzaldehyde	1.082	1.279	-18.2	99	0.00
10	C	Phenol	1.620	1.535	5.2	103	0.00
11		bis(2-Chloroethyl)ether	1.263	1.201	4.9	104	0.00
12		1,3-Dichlorobenzene	1.499	1.502	-0.2	110	0.00
13	C	1,4-Dichlorobenzene	1.532	1.518	0.9	109	-0.01
14		1,2-Dichlorobenzene	1.483	1.439	3.0	106	0.00
15		Benzyl Alcohol	1.227	1.132	7.7	100	0.00
16		2,2'-oxybis(1-Chloropropane	1.692	1.647	2.7	107	0.00
17		2-Methylphenol	1.125	1.059	5.9	101	0.00
18		Hexachloroethane	0.563	0.578	-2.7	112	0.00
19	P	n-Nitroso-di-n-propylamine	1.023	0.895	12.5	95	-0.01
20		3+4-Methylphenols	1.560	1.396	10.5	96	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	93	0.00
22		Acetophenone	0.502	0.508	-1.2	98	0.00
23	S	Nitrobenzene-d5	0.395	0.409	-3.5	100	-0.01
24		Nitrobenzene	0.353	0.367	-4.0	99	0.00
25		Isophorone	0.700	0.664	5.1	92	0.00
26	C	2-Nitrophenol	0.181	0.188	-3.9	97	0.00
27		2,4-Dimethylphenol	0.312	0.308	1.3	93	0.00
28		bis(2-Chloroethoxy)methane	0.423	0.413	2.4	95	0.00
29	C	2,4-Dichlorophenol	0.310	0.310	0.0	95	0.00
30		1,2,4-Trichlorobenzene	0.340	0.346	-1.8	99	0.00
31		Naphthalene	1.040	1.033	0.7	96	0.00
32		Benzoic acid	0.230	0.211	8.3	87	0.00
33		4-Chloroaniline	0.459	0.429	6.5	89	0.00
34	C	Hexachlorobutadiene	0.211	0.225	-6.6	103	0.00
35		Caprolactam	0.114	0.092	19.3	79	0.00
36	C	4-Chloro-3-methylphenol	0.355	0.324	8.7	87	0.00
37		2-Methylnaphthalene	0.676	0.633	6.4	91	0.00
38		1-Methylnaphthalene	0.719	0.664	7.6	90	0.00
39	I	Acenaphthene-d10	1.000	1.000	0.0	81	-0.01
40		1,2,4,5-Tetrachlorobenzene	0.578	0.626	-8.3	90	0.00
41	P	Hexachlorocyclopentadiene	0.349	0.359	-2.9	83	0.00
42	S	2,4,6-Tribromophenol	0.269	0.257	4.5	79	0.00
43	C	2,4,6-Trichlorophenol	0.390	0.414	-6.2	87	0.00
44		2,4,5-Trichlorophenol	0.427	0.446	-4.4	85	0.00
45	S	2-Fluorobiphenyl	1.463	1.526	-4.3	88	0.00
46		1,1'-Biphenyl	1.453	1.507	-3.7	86	0.00
47		2-Chloronaphthalene	1.131	1.165	-3.0	85	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025512.D
Acq On : 20 Aug 2025 18:27
Operator : CG/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: Aug 21 01:35:49 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 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	0.329	0.343	-4.3	84	0.00
49		Acenaphthylene	1.871	1.871	0.0	83	0.00
50		Dimethylphthalate	1.465	1.399	4.5	80	-0.01
51		2,6-Dinitrotoluene	0.309	0.313	-1.3	82	0.00
52	C	Acenaphthene	1.098	1.086	1.1	84	0.00
53		3-Nitroaniline	0.347	0.329	5.2	78	-0.01
54	P	2,4-Dinitrophenol	0.165	0.172	-4.2	85	0.00
55		Dibenzofuran	1.736	1.703	1.9	82	0.00
56	P	4-Nitrophenol	0.285	0.266	6.7	77	0.00
57		2,4-Dinitrotoluene	0.440	0.429	2.5	79	0.00
58		Fluorene	1.370	1.306	4.7	81	0.00
59		2,3,4,6-Tetrachlorophenol	0.377	0.372	1.3	81	0.00
60		Diethylphthalate	1.488	1.402	5.8	79	0.00
61		4-Chlorophenyl-phenylether	0.681	0.651	4.4	80	0.00
62		4-Nitroaniline	0.356	0.332	6.7	76	0.00
63		Azobenzene	1.274	1.253	1.6	82	0.00
64	I	Phenanthrene-d10	1.000	1.000	0.0	76	0.00
65		4,6-Dinitro-2-methylphenol	0.125	0.127	-1.6	79	0.00
66	c	n-Nitrosodiphenylamine	0.610	0.609	0.2	78	-0.01
67		4-Bromophenyl-phenylether	0.220	0.224	-1.8	80	0.00
68		Hexachlorobenzene	0.255	0.256	-0.4	80	0.00
69		Atrazine	0.228	0.221	3.1	77	0.00
70	C	Pentachlorophenol	0.161	0.167	-3.7	80	0.00
71		Phenanthrene	1.099	1.085	1.3	79	0.00
72		Anthracene	1.122	1.084	3.4	76	0.00
73		Carbazole	1.057	1.022	3.3	77	0.00
74		Di-n-butylphthalate	1.300	1.314	-1.1	80	0.00
75	C	Fluoranthene	1.311	1.267	3.4	78	0.00
76	I	Chrysene-d12	1.000	1.000	0.0	80	0.00
77		Benzidine	0.683	0.543	20.5	45#	0.00
78		Pyrene	1.300	1.220	6.2	77	0.00
79	S	Terphenyl-d14	1.093	1.021	6.6	78	0.00
80		Butylbenzylphthalate	0.589	0.600	-1.9	83	0.00
81		Benzo(a)anthracene	1.319	1.279	3.0	81	0.00
82		3,3'-Dichlorobenzidine	0.497	0.503	-1.2	83	0.00
83		Chrysene	1.235	1.213	1.8	82	0.00
84		Bis(2-ethylhexyl)phthalate	0.867	0.895	-3.2	87	-0.02
85	c	Di-n-octyl phthalate	1.492	1.648	-10.5	92	-0.02
86	I	Perylene-d12	1.000	1.000	0.0	89	0.00
87		Indeno(1,2,3-cd)pyrene	1.467	1.484	-1.2	94	0.01
88		Benzo(b)fluoranthene	1.179	1.121	4.9	88	0.00
89		Benzo(k)fluoranthene	1.180	1.119	5.2	88	0.00
90	C	Benzo(a)pyrene	1.148	1.115	2.9	90	0.01
91		Dibenzo(a,h)anthracene	1.199	1.220	-1.8	94	0.00
92		Benzo(g,h,i)perylene	1.178	1.213	-3.0	95	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025512.D
Acq On : 20 Aug 2025 18:27
Operator : CG/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: Aug 21 01:35:49 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration

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

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025512.D
Acq On : 20 Aug 2025 18:27
Operator : CG/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: Aug 21 01:35:49 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 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	105	0.00
2		1,4-Dioxane	40.000	41.454	-3.6	116	0.00
3		Pyridine	40.000	38.497	3.8	107	0.00
4		n-Nitrosodimethylamine	40.000	42.863	-7.2	118	0.00
5	S	2-Fluorophenol	80.000	81.851	-2.3	112	0.00
6		Aniline	40.000	37.776	5.6	102	0.00
7	S	Phenol-d6	80.000	77.239	3.5	104	0.00
8		2-Chlorophenol	40.000	38.971	2.6	106	0.00
9		Benzaldehyde	40.000	47.306	-18.3	99	0.00
10	C	Phenol	40.000	37.903	5.2	103	0.00
11		bis(2-Chloroethyl)ether	40.000	38.056	4.9	104	0.00
12		1,3-Dichlorobenzene	40.000	40.104	-0.3	110	0.00
13	C	1,4-Dichlorobenzene	40.000	39.630	0.9	109	-0.01
14		1,2-Dichlorobenzene	40.000	38.825	2.9	106	0.00
15		Benzyl Alcohol	40.000	36.921	7.7	100	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	38.945	2.6	107	0.00
17		2-Methylphenol	40.000	37.654	5.9	101	0.00
18		Hexachloroethane	40.000	41.047	-2.6	112	0.00
19	P	n-Nitroso-di-n-propylamine	40.000	35.024	12.4	95	-0.01
20		3+4-Methylphenols	40.000	35.797	10.5	96	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	93	0.00
22		Acetophenone	40.000	40.553	-1.4	98	0.00
23	S	Nitrobenzene-d5	80.000	82.828	-3.5	100	-0.01
24		Nitrobenzene	40.000	41.561	-3.9	99	0.00
25		Isophorone	40.000	37.972	5.1	92	0.00
26	C	2-Nitrophenol	40.000	41.515	-3.8	97	0.00
27		2,4-Dimethylphenol	40.000	39.508	1.2	93	0.00
28		bis(2-Chloroethoxy)methane	40.000	39.085	2.3	95	0.00
29	C	2,4-Dichlorophenol	40.000	40.068	-0.2	95	0.00
30		1,2,4-Trichlorobenzene	40.000	40.786	-2.0	99	0.00
31		Naphthalene	40.000	39.747	0.6	96	0.00
32		Benzoic acid	40.000	36.722	8.2	87	0.00
33		4-Chloroaniline	40.000	37.353	6.6	89	0.00
34	C	Hexachlorobutadiene	40.000	42.538	-6.3	103	0.00
35		Caprolactam	40.000	32.534	18.7	79	0.00
36	C	4-Chloro-3-methylphenol	40.000	36.511	8.7	87	0.00
37		2-Methylnaphthalene	40.000	37.407	6.5	91	0.00
38		1-Methylnaphthalene	40.000	36.937	7.7	90	0.00
39	I	Acenaphthene-d10	20.000	20.000	0.0	81	-0.01
40		1,2,4,5-Tetrachlorobenzene	40.000	43.350	-8.4	90	0.00
41	P	Hexachlorocyclopentadiene	40.000	41.195	-3.0	83	0.00
42	S	2,4,6-Tribromophenol	80.000	76.447	4.4	79	0.00
43	C	2,4,6-Trichlorophenol	40.000	42.446	-6.1	87	0.00
44		2,4,5-Trichlorophenol	40.000	41.744	-4.4	85	0.00
45	S	2-Fluorobiphenyl	80.000	83.434	-4.3	88	0.00
46		1,1'-Biphenyl	40.000	41.508	-3.8	86	0.00
47		2-Chloronaphthalene	40.000	41.219	-3.0	85	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025512.D
Acq On : 20 Aug 2025 18:27
Operator : CG/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: Aug 21 01:35:49 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 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	41.628	-4.1	84	0.00
49		Acenaphthylene	40.000	40.001	-0.0	83	0.00
50		Dimethylphthalate	40.000	38.219	4.5	80	-0.01
51		2,6-Dinitrotoluene	40.000	40.576	-1.4	82	0.00
52	C	Acenaphthene	40.000	39.546	1.1	84	0.00
53		3-Nitroaniline	40.000	37.912	5.2	78	-0.01
54	P	2,4-Dinitrophenol	40.000	41.686	-4.2	85	0.00
55		Dibenzofuran	40.000	39.221	1.9	82	0.00
56	P	4-Nitrophenol	40.000	37.212	7.0	77	0.00
57		2,4-Dinitrotoluene	40.000	39.004	2.5	79	0.00
58		Fluorene	40.000	38.132	4.7	81	0.00
59		2,3,4,6-Tetrachlorophenol	40.000	39.405	1.5	81	0.00
60		Diethylphthalate	40.000	37.688	5.8	79	0.00
61		4-Chlorophenyl-phenylether	40.000	38.204	4.5	80	0.00
62		4-Nitroaniline	40.000	37.321	6.7	76	0.00
63		Azobenzene	40.000	39.346	1.6	82	0.00
64	I	Phenanthrene-d10	20.000	20.000	0.0	76	0.00
65		4,6-Dinitro-2-methylphenol	40.000	40.860	-2.1	79	0.00
66	c	n-Nitrosodiphenylamine	40.000	39.942	0.1	78	-0.01
67		4-Bromophenyl-phenylether	40.000	40.668	-1.7	80	0.00
68		Hexachlorobenzene	40.000	40.230	-0.6	80	0.00
69		Atrazine	40.000	38.670	3.3	77	0.00
70	C	Pentachlorophenol	40.000	41.514	-3.8	80	0.00
71		Phenanthrene	40.000	39.517	1.2	79	0.00
72		Anthracene	40.000	38.632	3.4	76	0.00
73		Carbazole	40.000	38.700	3.2	77	0.00
74		Di-n-butylphthalate	40.000	40.436	-1.1	80	0.00
75	C	Fluoranthene	40.000	38.675	3.3	78	0.00
76	I	Chrysene-d12	20.000	20.000	0.0	80	0.00
77		Benzidine	40.000	31.831	20.4	45	0.00
78		Pyrene	40.000	37.531	6.2	77	0.00
79	S	Terphenyl-d14	80.000	74.739	6.6	78	0.00
80		Butylbenzylphthalate	40.000	40.760	-1.9	83	0.00
81		Benzo(a)anthracene	40.000	38.784	3.0	81	0.00
82		3,3'-Dichlorobenzidine	40.000	40.475	-1.2	83	0.00
83		Chrysene	40.000	39.282	1.8	82	0.00
84		Bis(2-ethylhexyl)phthalate	40.000	41.288	-3.2	87	-0.02
85	c	Di-n-octyl phthalate	40.000	44.204	-10.5	92	-0.02
86	I	Perylene-d12	20.000	20.000	0.0	89	0.00
87		Indeno(1,2,3-cd)pyrene	40.000	40.465	-1.2	94	0.01
88		Benzo(b)fluoranthene	40.000	38.021	4.9	88	0.00
89		Benzo(k)fluoranthene	40.000	37.913	5.2	88	0.00
90	C	Benzo(a)pyrene	40.000	38.861	2.8	90	0.01
91		Dibenzo(a,h)anthracene	40.000	40.707	-1.8	94	0.00
92		Benzo(g,h,i)perylene	40.000	41.164	-2.9	95	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025512.D
Acq On : 20 Aug 2025 18:27
Operator : CG/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: Aug 21 01:35:49 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration

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

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

(#) = Out of Range SPCC's out = 0 CCC's out = 0

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: FIRS02

Lab Code: ACE SDG No.: Q2819

Instrument ID: BNA_P Calibration Date/Time: 08/21/2025 03:59

Lab File ID: BP025526.D Init. Calib. Date(s): 08/14/2025 08/14/2025

EPA Sample No.: SSTDCCC040EC Init. Calib. Time(s): 12:33 17:24

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.204	1.216		1.0	50.0
Benzaldehyde	1.082	1.290		19.2	50.0
Phenol-d6	1.544	1.547		0.2	50.0
Phenol	1.620	1.613		-0.4	50.0
bis(2-Chloroethyl)ether	1.263	1.261		-0.2	50.0
2-Chlorophenol	1.359	1.350		-0.7	50.0
2-Methylphenol	1.125	1.122		-0.3	50.0
2,2-oxybis(1-Chloropropane)	1.692	1.733		2.4	50.0
Acetophenone	0.502	0.499		-0.6	50.0
3+4-Methylphenols	1.560	1.505		-3.5	50.0
n-Nitroso-di-n-propylamine	1.023	0.976	0.050	-4.6	50.0
Nitrobenzene-d5	0.395	0.409		3.5	50.0
Hexachloroethane	0.563	0.559		-0.7	50.0
Nitrobenzene	0.353	0.366		3.7	50.0
Isophorone	0.700	0.680		-2.9	50.0
2-Nitrophenol	0.181	0.186		2.8	50.0
2,4-Dimethylphenol	0.312	0.314		0.6	50.0
bis(2-Chloroethoxy)methane	0.423	0.410		-3.1	50.0
2,4-Dichlorophenol	0.310	0.310		0.0	50.0
Naphthalene	1.040	1.009		-3.0	50.0
4-Chloroaniline	0.459	0.448		-2.4	50.0
Hexachlorobutadiene	0.211	0.207		-1.9	50.0
Caprolactam	0.114	0.101		-11.4	50.0
4-Chloro-3-methylphenol	0.355	0.344		-3.1	50.0
2-Methylnaphthalene	0.676	0.643		-4.9	50.0
Hexachlorocyclopentadiene	0.349	0.363	0.050	4.0	50.0
2,4,6-Trichlorophenol	0.390	0.402		3.1	50.0
2-Fluorobiphenyl	1.463	1.441		-1.5	50.0
2,4,5-Trichlorophenol	0.427	0.434		1.6	50.0
1,1-Biphenyl	1.453	1.452		-0.1	50.0
2-Chloronaphthalene	1.131	1.136		0.4	50.0
2-Nitroaniline	0.329	0.351		6.7	50.0
Dimethylphthalate	1.465	1.392		-5.0	50.0
Acenaphthylene	1.871	1.854		-0.9	50.0
2,6-Dinitrotoluene	0.309	0.311		0.6	50.0
3-Nitroaniline	0.347	0.338		-2.6	50.0
Acenaphthene	1.098	1.059		-3.6	50.0
2,4-Dinitrophenol	0.165	0.168	0.050	1.8	50.0
4-Nitrophenol	0.285	0.269	0.050	-5.6	50.0

Form VII SV-1

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: Alliance Contract: FIRS02

Lab Code: ACE SDG No.: Q2819

Instrument ID: BNA_P Calibration Date/Time: 08/21/2025 03:59

Lab File ID: BP025526.D Init. Calib. Date(s): 08/14/2025 08/14/2025

EPA Sample No.: SSTDCCC040EC Init. Calib. Time(s): 12:33 17:24

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.736	1.660		-4.4	50.0
2,4-Dinitrotoluene	0.440	0.426		-3.2	50.0
Diethylphthalate	1.488	1.379		-7.3	50.0
4-Chlorophenyl-phenylether	0.681	0.626		-8.1	50.0
Fluorene	1.370	1.266		-7.6	50.0
4-Nitroaniline	0.356	0.320		-10.1	50.0
4,6-Dinitro-2-methylphenol	0.125	0.131		4.8	50.0
n-Nitrosodiphenylamine	0.610	0.638		4.6	50.0
2,4,6-Tribromophenol	0.269	0.252		-6.3	50.0
4-Bromophenyl-phenylether	0.220	0.224		1.8	50.0
Hexachlorobenzene	0.255	0.254		-0.4	50.0
Atrazine	0.228	0.224		-1.8	50.0
Pentachlorophenol	0.161	0.166		3.1	50.0
Phenanthrene	1.099	1.065		-3.1	50.0
Anthracene	1.122	1.109		-1.2	50.0
Carbazole	1.057	1.017		-3.8	50.0
Di-n-butylphthalate	1.300	1.219		-6.2	50.0
Fluoranthene	1.311	1.183		-9.8	50.0
Pyrene	1.300	1.284		-1.2	50.0
Terphenyl-d14	1.093	1.064		-2.7	50.0
Butylbenzylphthalate	0.589	0.569		-3.4	50.0
3,3-Dichlorobenzidine	0.497	0.479		-3.6	50.0
Benzo(a)anthracene	1.319	1.296		-1.7	50.0
Chrysene	1.235	1.210		-2.0	50.0
Bis(2-ethylhexyl)phthalate	0.867	0.831		-4.2	50.0
Di-n-octyl phthalate	1.492	1.498		0.4	50.0
Benzo(b)fluoranthene	1.179	1.117		-5.3	50.0
Benzo(k)fluoranthene	1.180	1.109		-6.0	50.0
Benzo(a)pyrene	1.148	1.115		-2.9	50.0
Indeno(1,2,3-cd)pyrene	1.467	1.483		1.1	50.0
Dibenzo(a,h)anthracene	1.199	1.211		1.0	50.0
Benzo(g,h,i)perylene	1.178	1.200		1.9	50.0
1,2,4,5-Tetrachlorobenzene	0.578	0.581		0.5	50.0
1,4-Dioxane	0.472	0.469		-0.6	50.0
2,3,4,6-Tetrachlorophenol	0.377	0.370		-1.9	50.0

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025526.D
Acq On : 21 Aug 2025 03:59
Operator : CG/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Quant Time: Aug 21 05:11:42 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.784	152	191900	20.000	ng		-0.01
21) Naphthalene-d8	10.554	136	778080	20.000	ng		0.00
39) Acenaphthene-d10	14.395	164	480142	20.000	ng		-0.01
64) Phenanthrene-d10	17.189	188	869173	20.000	ng		-0.01
76) Chrysene-d12	21.636	240	823541	20.000	ng		-0.01
86) Perylene-d12	25.001	264	1048104	20.000	ng		-0.03
System Monitoring Compounds							
5) 2-Fluorophenol	5.402	112	933086	80.749	ng		0.00
7) Phenol-d6	6.966	99	1187456	80.152	ng		0.00
23) Nitrobenzene-d5	8.931	82	1273041	82.765	ng		0.00
42) 2,4,6-Tribromophenol	15.895	330	484295	74.936	ng		-0.02
45) 2-Fluorobiphenyl	13.007	172	2768196	78.794	ng		-0.01
79) Terphenyl-d14	19.913	244	3505178	77.871	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.331	88	179822	39.729	ng		97
3) Pyridine	3.725	79	482600	38.955	ng		93
4) n-Nitrosodimethylamine	3.631	42	224519	43.959	ng		91
6) Aniline	7.119	93	791031	39.629	ng		99
8) 2-Chlorophenol	7.360	128	518280	39.746	ng		98
9) Benzaldehyde	6.937	77	495216	47.711	ng		98
10) Phenol	6.996	94	619143	39.828	ng		96
11) bis(2-Chloroethyl)ether	7.213	93	483955	39.942	ng		97
12) 1,3-Dichlorobenzene	7.678	146	570118	39.651	ng		97
13) 1,4-Dichlorobenzene	7.819	146	575622	39.168	ng		99
14) 1,2-Dichlorobenzene	8.137	146	549967	38.659	ng		98
15) Benzyl Alcohol	8.019	79	470863	40.000	ng		97
16) 2,2'-oxybis(1-Chloropr...	8.307	45	665088	40.975	ng		99
17) 2-Methylphenol	8.225	107	430585	39.881	ng		98
18) Hexachloroethane	8.860	117	214677	39.729	ng		95
19) n-Nitroso-di-n-propyla...	8.584	70	374725	38.186	ng		97
20) 3+4-Methylphenols	8.548	107	577590	38.594	ng		96
22) Acetophenone	8.596	105	777206	39.831	ng	#	96
24) Nitrobenzene	8.972	77	569192	41.406	ng		99
25) Isophorone	9.495	82	1057559	38.851	ng		100
26) 2-Nitrophenol	9.672	139	289854	41.086	ng		98
27) 2,4-Dimethylphenol	9.737	122	488029	40.225	ng		98
28) bis(2-Chloroethoxy)met...	9.960	93	638647	38.812	ng		99
29) 2,4-Dichlorophenol	10.207	162	482743	40.055	ng		98
30) 1,2,4-Trichlorobenzene	10.419	180	516908	39.125	ng		97
31) Naphthalene	10.601	128	1570246	38.828	ng		99
32) Benzoic acid	9.884	122	358720	40.049	ng		97
33) 4-Chloroaniline	10.707	127	696525	38.991	ng		98
34) Hexachlorobutadiene	10.890	225	321424	39.065	ng		98
35) Caprolactam	11.495	113	156812	35.484	ng		99
36) 4-Chloro-3-methylphenol	11.831	107	534863	38.676	ng		97
37) 2-Methylnaphthalene	12.207	142	999947	37.995	ng		99
38) 1-Methylnaphthalene	12.425	142	1043941	37.300	ng		99
40) 1,2,4,5-Tetrachloroben...	12.578	216	558004	40.240	ng		99
41) Hexachlorocyclopentadiene	12.560	237	349022	41.668	ng		98
43) 2,4,6-Trichlorophenol	12.819	196	385756	41.205	ng		97

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025526.D
Acq On : 21 Aug 2025 03:59
Operator : CG/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Quant Time: Aug 21 05:11:42 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration

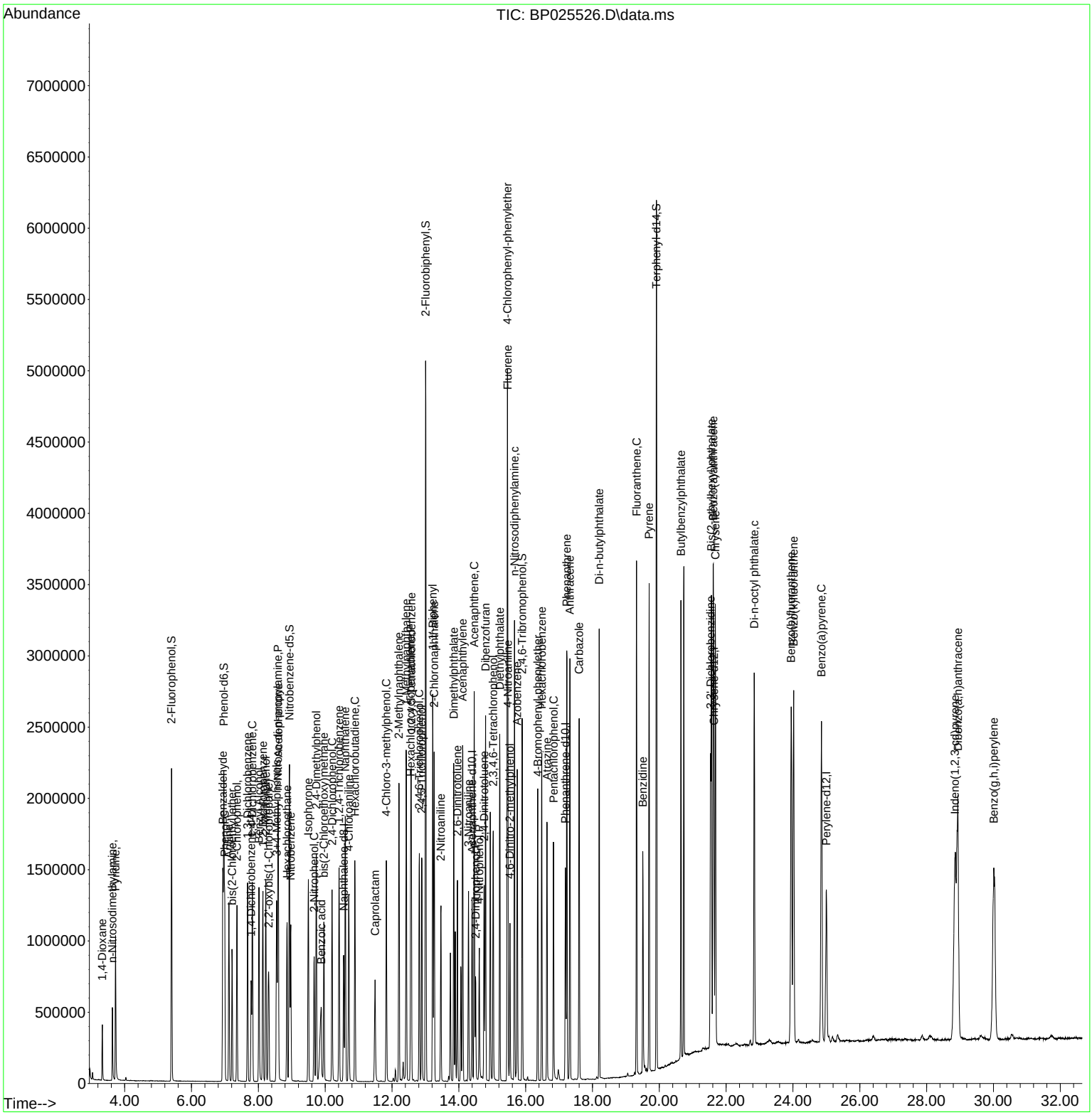
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.889	196	416547	40.598	ng	99
46) 1,1'-Biphenyl	13.219	154	1394649	39.995	ng	98
47) 2-Chloronaphthalene	13.260	162	1090908	40.186	ng	99
48) 2-Nitroaniline	13.466	65	337247	42.636	ng	96
49) Acenaphthylene	14.113	152	1780779	39.644	ng	100
50) Dimethylphthalate	13.848	163	1336804	38.020	ng	99
51) 2,6-Dinitrotoluene	13.960	165	298291	40.251	ng	98
52) Acenaphthene	14.460	154	1016517	38.553	ng	98
53) 3-Nitroaniline	14.289	138	324980	38.977	ng	95
54) 2,4-Dinitrophenol	14.507	184	160853	40.644	ng	97
55) Dibenzofuran	14.801	168	1593872	38.235	ng	98
56) 4-Nitrophenol	14.613	139	257855	37.635	ng	95
57) 2,4-Dinitrotoluene	14.760	165	409171	38.698	ng	97
58) Fluorene	15.460	166	1216177	36.973	ng	99
59) 2,3,4,6-Tetrachlorophenol	15.030	232	355491	39.239	ng	99
60) Diethylphthalate	15.225	149	1323887	37.056	ng	99
61) 4-Chlorophenyl-phenyle...	15.454	204	600871	36.730	ng	97
62) 4-Nitroaniline	15.472	138	307105	35.928	ng	95
63) Azobenzene	15.748	77	1216437	39.764	ng	98
65) 4,6-Dinitro-2-methylph...	15.530	198	227645	42.016	ng	92
66) n-Nitrosodiphenylamine	15.666	169	1109160	41.848	ng	100
67) 4-Bromophenyl-phenylether	16.366	248	388602	40.652	ng	99
68) Hexachlorobenzene	16.483	284	442271	39.912	ng	97
69) Atrazine	16.642	200	388998	39.190	ng	98
70) Pentachlorophenol	16.836	266	288486	41.242	ng	96
71) Phenanthrene	17.230	178	1852149	38.791	ng	100
72) Anthracene	17.324	178	1927125	39.524	ng	99
73) Carbazole	17.601	167	1767299	38.481	ng	100
74) Di-n-butylphthalate	18.201	149	2118222	37.487	ng	100
75) Fluoranthene	19.319	202	2056945	36.116	ng	98
77) Benzidine	19.507	184	955775	34.006	ng	99
78) Pyrene	19.695	202	2114083	39.495	ng	100
80) Butylbenzylphthalate	20.648	149	936663	38.610	ng	100
81) Benzo(a)anthracene	21.612	228	2134261	39.296	ng	99
82) 3,3'-Dichlorobenzidine	21.536	252	789715	38.576	ng	100
83) Chrysene	21.677	228	1992794	39.179	ng	100
84) Bis(2-ethylhexyl)phtha...	21.560	149	1368948	38.334	ng	100
85) Di-n-octyl phthalate	22.842	149	2466831	40.160	ng	98
87) Indeno(1,2,3-cd)pyrene	28.847	276	3108816	40.446	ng	98
88) Benzo(b)fluoranthene	23.948	252	2342446	37.901	ng	100
89) Benzo(k)fluoranthene	24.024	252	2325553	37.602	ng	99
90) Benzo(a)pyrene	24.854	252	2336844	38.843	ng	98
91) Dibenzo(a,h)anthracene	28.936	278	2537691	40.400	ng	100
92) Benzo(g,h,i)perylene	30.012	276	2515443	40.739	ng	100

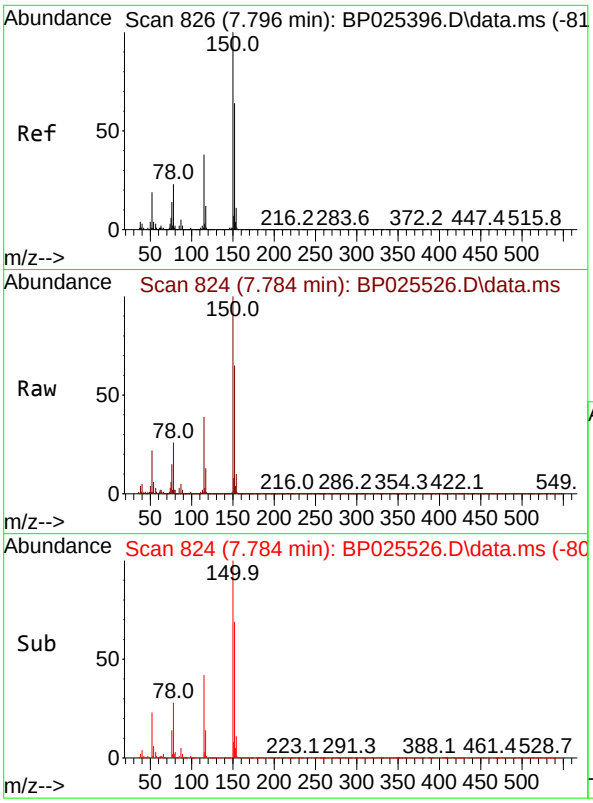
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025526.D
Acq On : 21 Aug 2025 03:59
Operator : CG/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Quant Time: Aug 21 05:11:42 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration



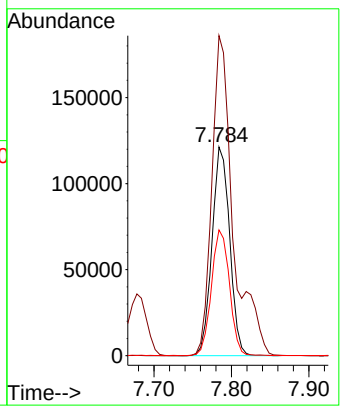


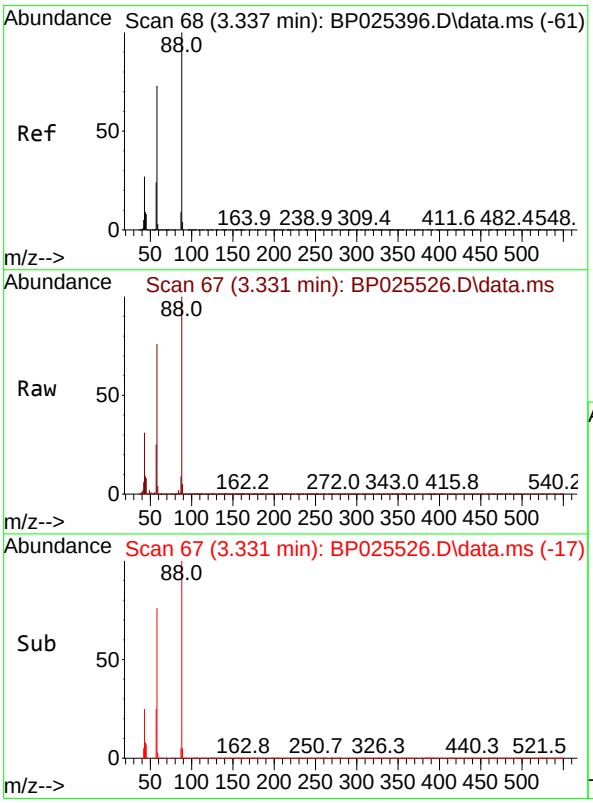
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.784 min Scan# 8
Delta R.T. -0.012 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:152 Resp: 191900

Ion	Ratio	Lower	Upper
152	100		
150	153.4	125.9	188.9
115	60.2	48.5	72.7

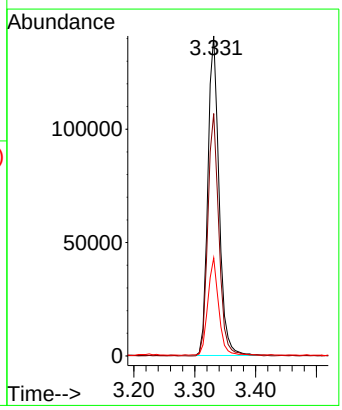


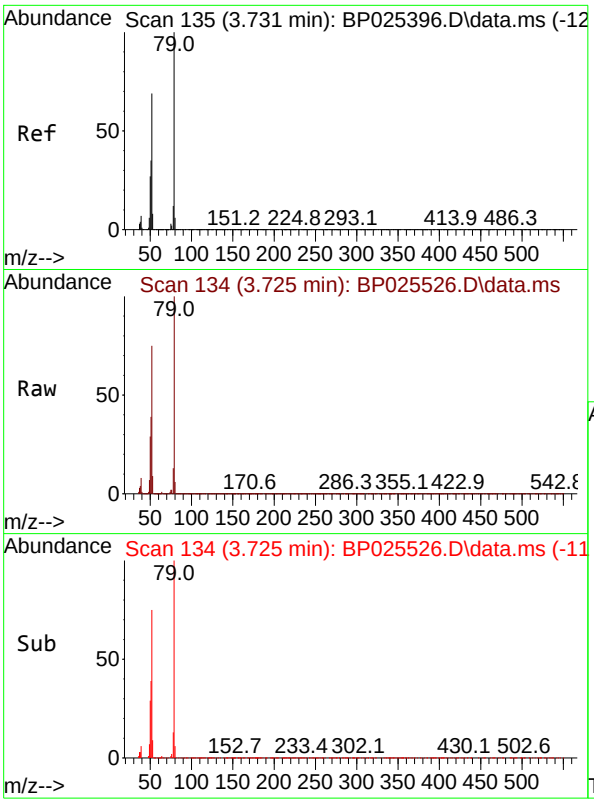


#2
1,4-Dioxane
Concen: 39.729 ng
RT: 3.331 min Scan# 67
Delta R.T. -0.006 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Tgt Ion: 88 Resp: 179822

Ion	Ratio	Lower	Upper
88	100		
58	75.5	59.2	88.8
43	29.8	21.7	32.5



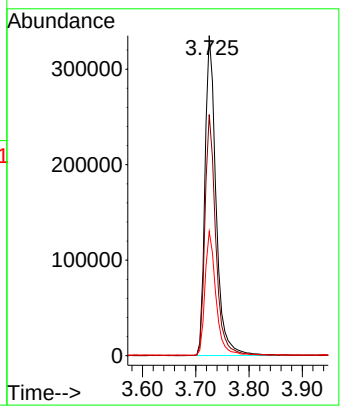


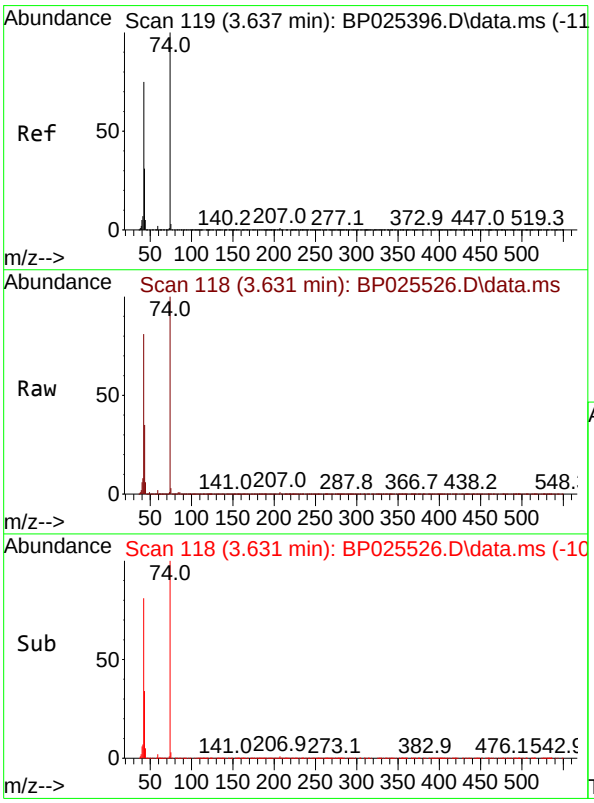
#3
Pyridine
Concen: 38.955 ng
RT: 3.725 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 79 Resp: 482600

Ion	Ratio	Lower	Upper
79	100		
52	75.3	55.5	83.3
51	38.8	28.3	42.5

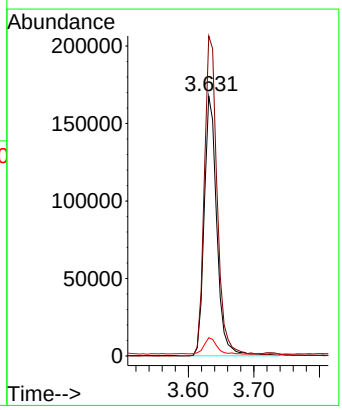


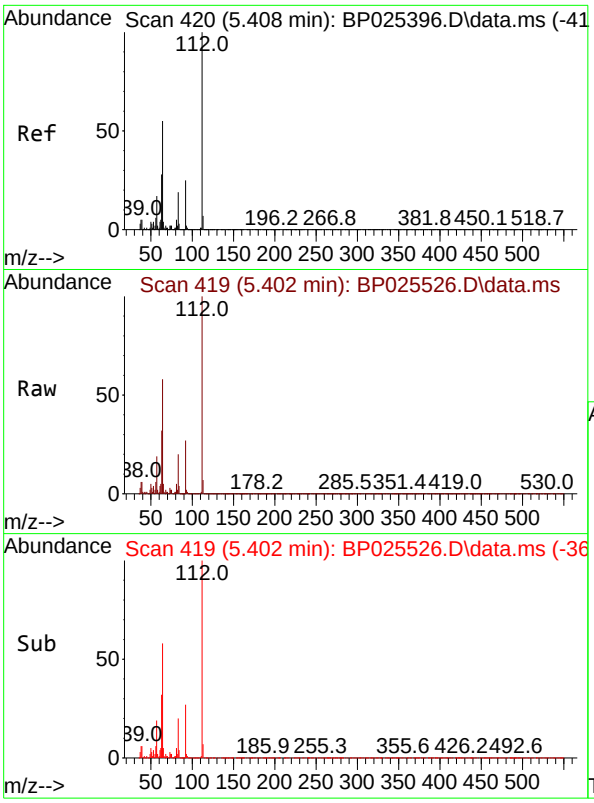


#4
n-Nitrosodimethylamine
Concen: 43.959 ng
RT: 3.631 min Scan# 118
Delta R.T. -0.006 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Tgt Ion: 42 Resp: 224519

Ion	Ratio	Lower	Upper
42	100		
74	123.2	107.0	160.4
44	7.0	6.2	9.4



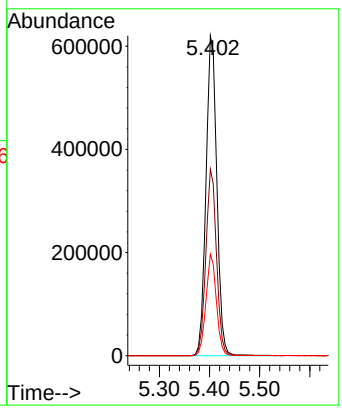


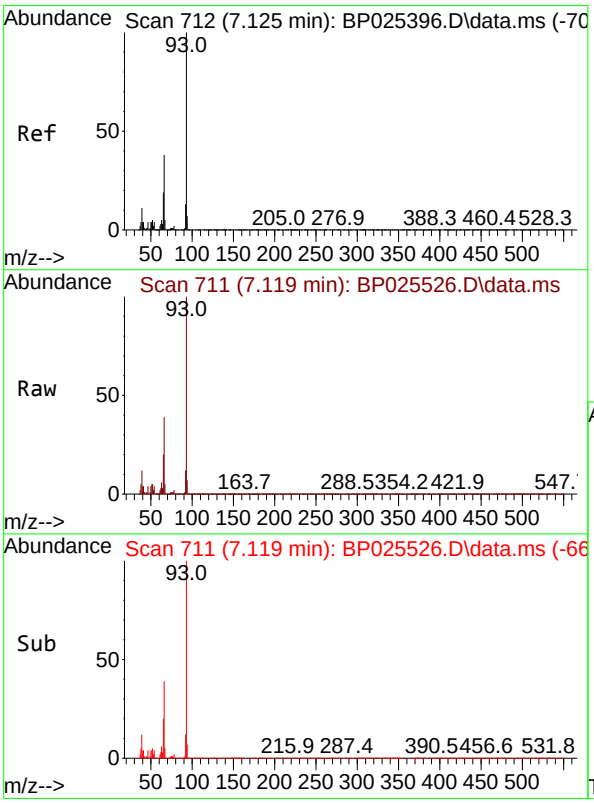
#5
2-Fluorophenol
Concen: 80.749 ng
RT: 5.402 min Scan# 41
Delta R.T. -0.006 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:112 Resp: 933086

Ion	Ratio	Lower	Upper
112	100		
64	58.3	43.8	65.8
63	31.7	22.7	34.1

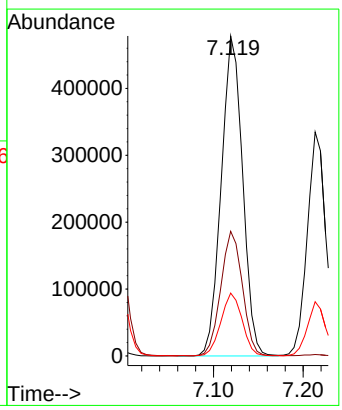


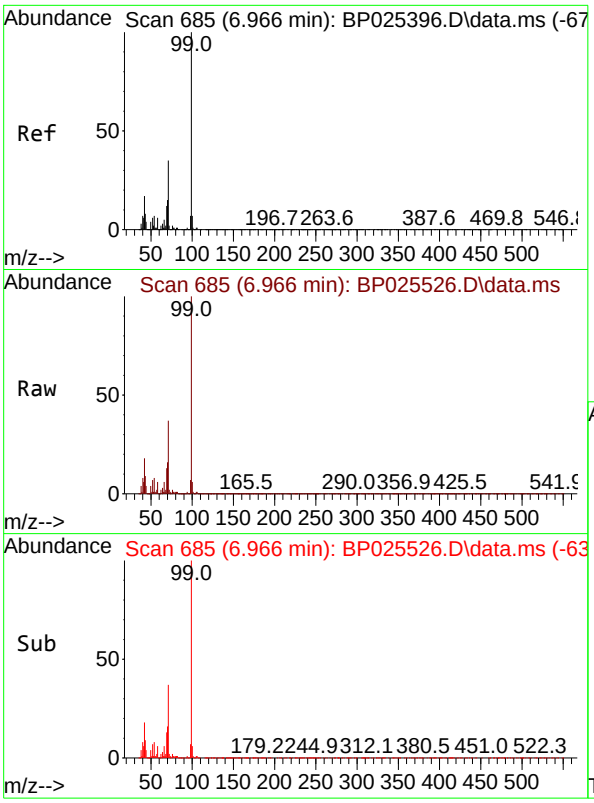


#6
Aniline
Concen: 39.629 ng
RT: 7.119 min Scan# 711
Delta R.T. -0.006 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Tgt Ion: 93 Resp: 791031

Ion	Ratio	Lower	Upper
93	100		
66	39.0	30.4	45.6
65	19.6	15.3	22.9



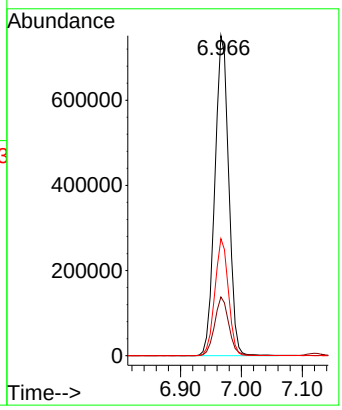


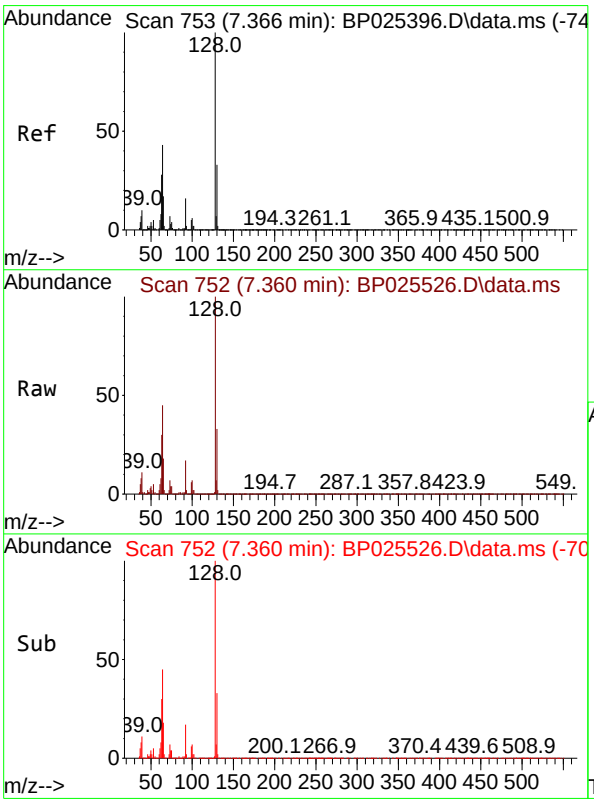
#7
Phenol-d6
Concen: 80.152 ng
RT: 6.966 min Scan# 6
Delta R.T. -0.000 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 99 Resp: 1187456

Ion	Ratio	Lower	Upper
99	100		
42	18.3	13.7	20.5
71	36.6	28.2	42.4

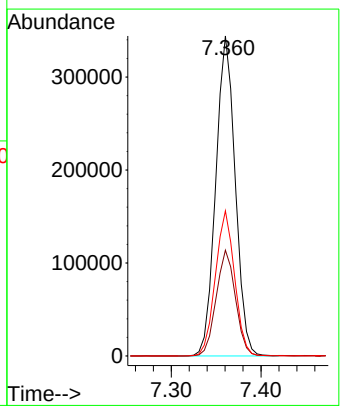


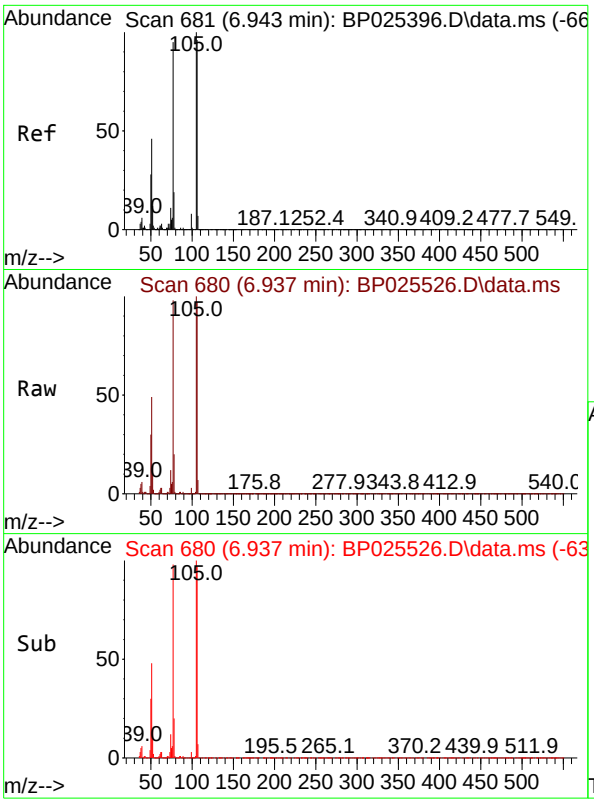


#8
2-Chlorophenol
Concen: 39.746 ng
RT: 7.360 min Scan# 752
Delta R.T. -0.006 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Tgt Ion:128 Resp: 518280

Ion	Ratio	Lower	Upper
128	100		
130	33.1	12.6	52.6
64	45.4	23.4	63.4



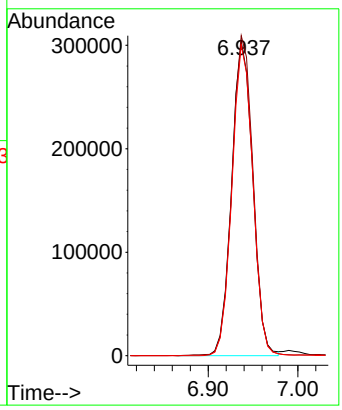


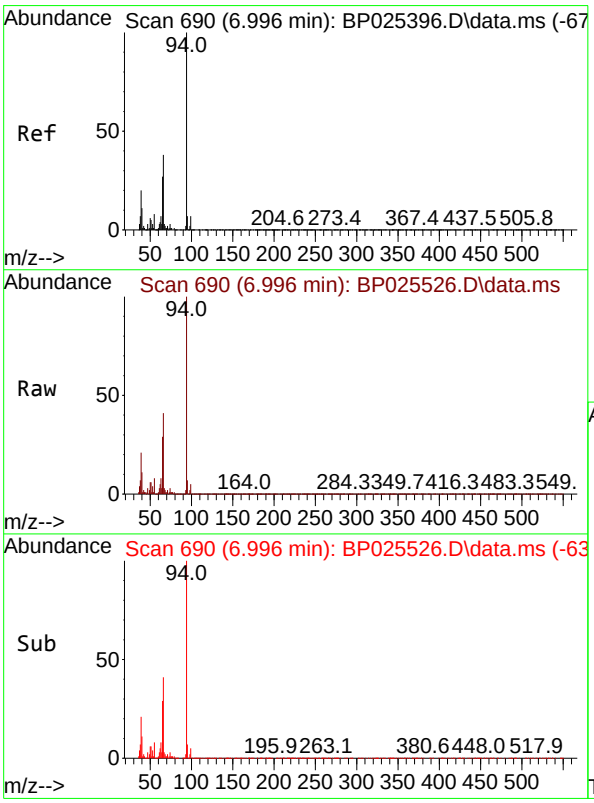
#9
Benzaldehyde
Concen: 47.711 ng
RT: 6.937 min Scan# 6
Delta R.T. -0.006 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 77 Resp: 495216

Ion	Ratio	Lower	Upper
77	100		
105	101.8	84.8	124.8
106	98.9	80.5	120.5

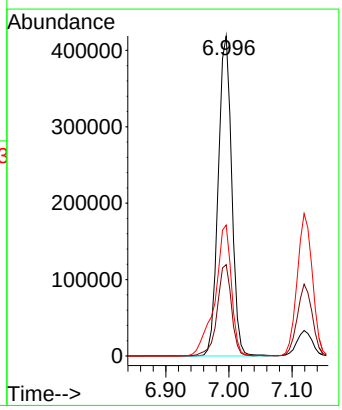


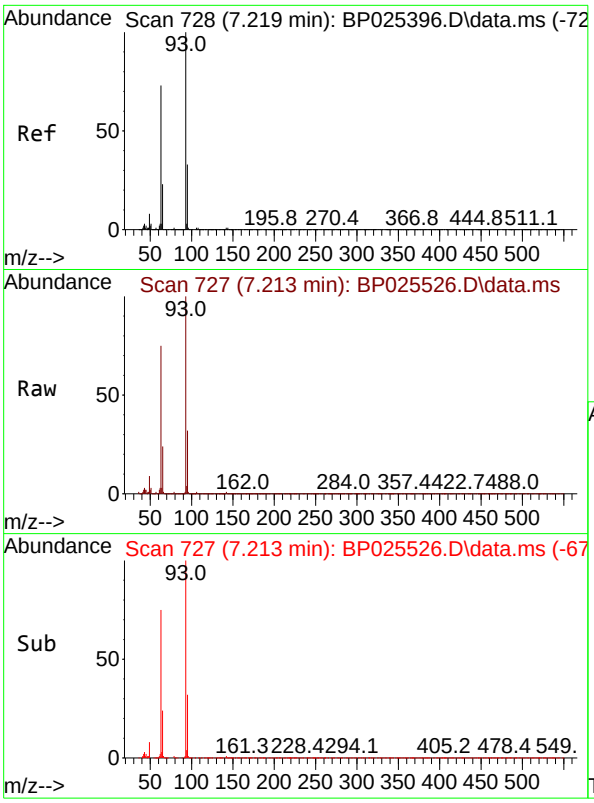


#10
Phenol
Concen: 39.828 ng
RT: 6.996 min Scan# 690
Delta R.T. -0.000 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Tgt Ion: 94 Resp: 619143

Ion	Ratio	Lower	Upper
94	100		
65	28.5	6.8	46.8
66	40.9	18.2	58.2



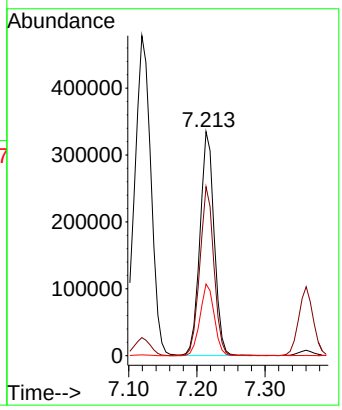


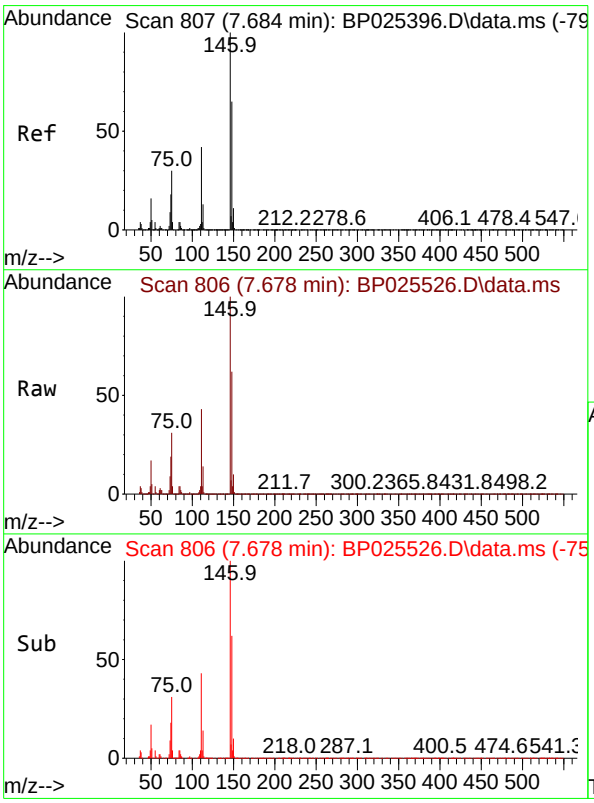
#11
bis(2-Chloroethyl)ether
Concen: 39.942 ng
RT: 7.213 min Scan# 7
Delta R.T. -0.006 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 93 Resp: 483955

Ion	Ratio	Lower	Upper
93	100		
63	75.4	52.6	92.6
95	32.0	12.7	52.7

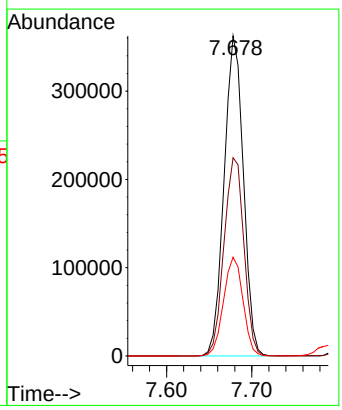


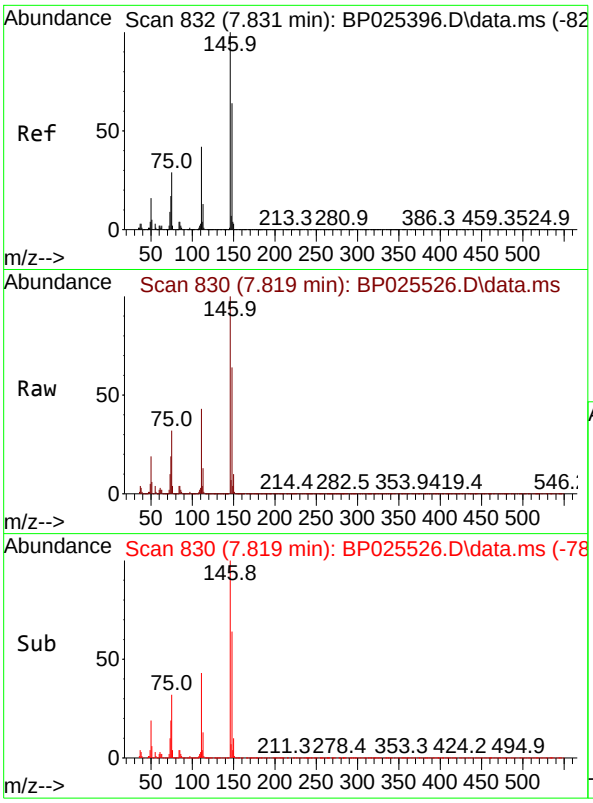


#12
1,3-Dichlorobenzene
Concen: 39.651 ng
RT: 7.678 min Scan# 806
Delta R.T. -0.006 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Tgt Ion:146 Resp: 570118

Ion	Ratio	Lower	Upper
146	100		
148	62.0	51.9	77.9
75	30.9	23.7	35.5



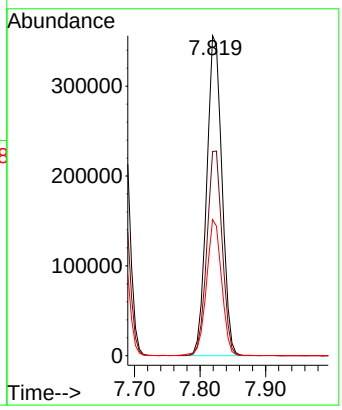


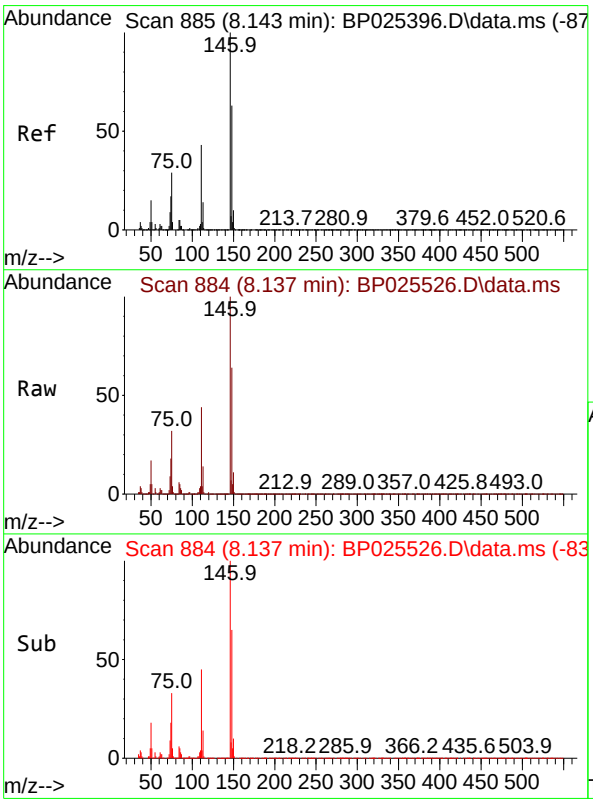
#13
1,4-Dichlorobenzene
Concen: 39.168 ng
RT: 7.819 min Scan# 8
Delta R.T. -0.012 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:146 Resp: 575622

Ion	Ratio	Lower	Upper
146	100		
148	63.8	51.6	77.4
111	42.5	33.4	50.0

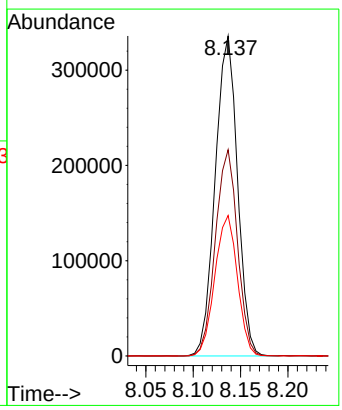


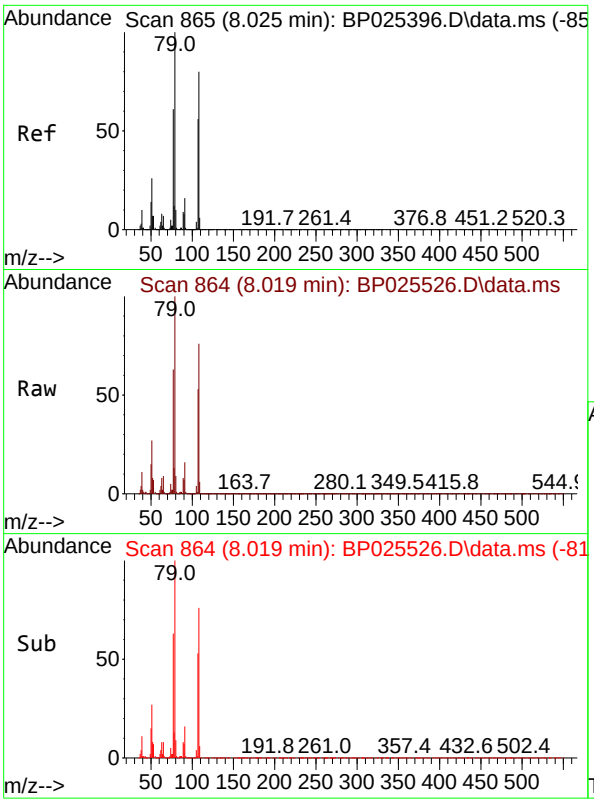


#14
1,2-Dichlorobenzene
Concen: 38.659 ng
RT: 8.137 min Scan# 884
Delta R.T. -0.006 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Tgt Ion:146 Resp: 549967

Ion	Ratio	Lower	Upper
146	100		
148	64.4	50.4	75.6
111	43.9	34.5	51.7



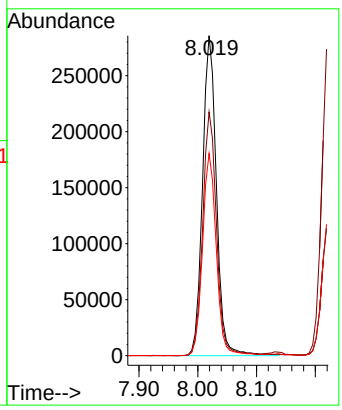


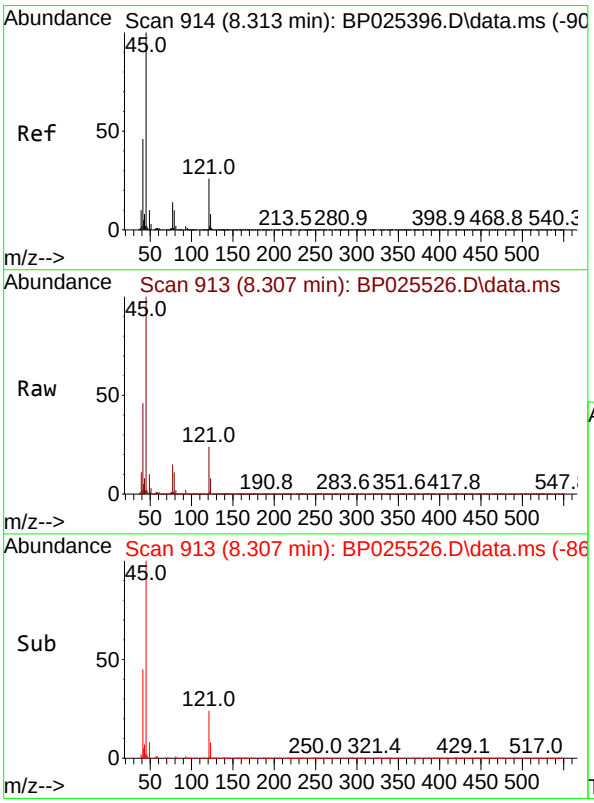
#15
Benzyl Alcohol
Concen: 40.000 ng
RT: 8.019 min Scan# 8
Delta R.T. -0.006 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 79 Resp: 470863

Ion	Ratio	Lower	Upper
79	100		
108	76.2	63.8	95.6
77	63.2	49.0	73.4

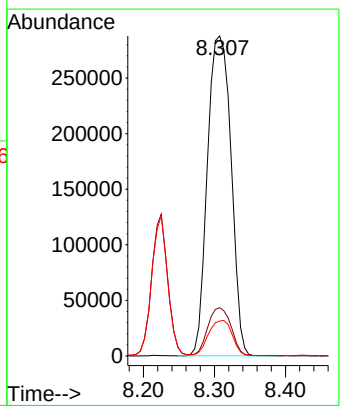


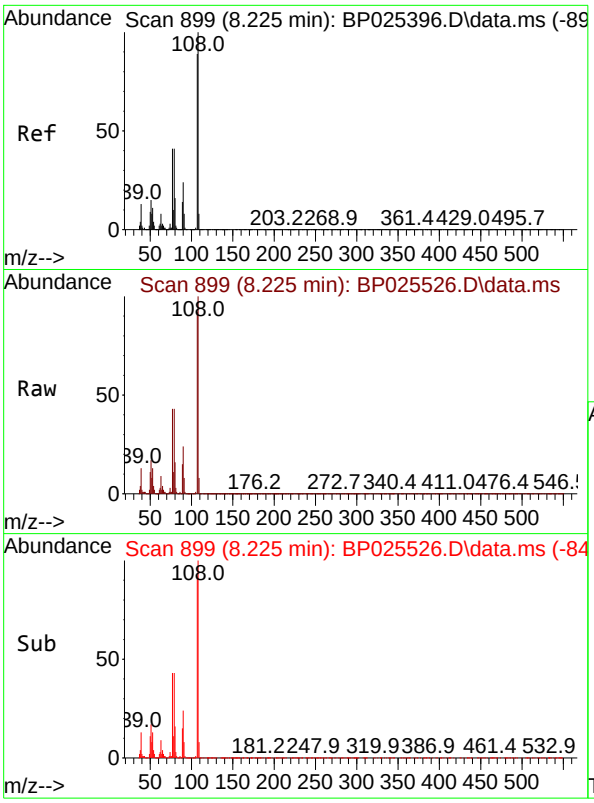


#16
2,2'-oxybis(1-Chloropropane)
Concen: 40.975 ng
RT: 8.307 min Scan# 913
Delta R.T. -0.006 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Tgt Ion: 45 Resp: 665088

Ion	Ratio	Lower	Upper
45	100		
77	15.1	0.0	35.3
79	10.9	0.0	31.8



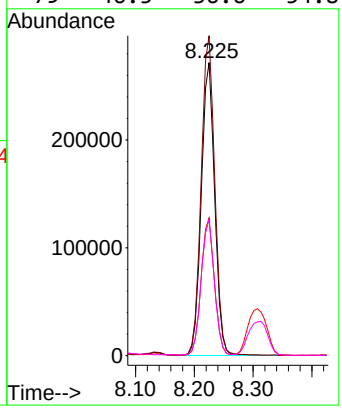


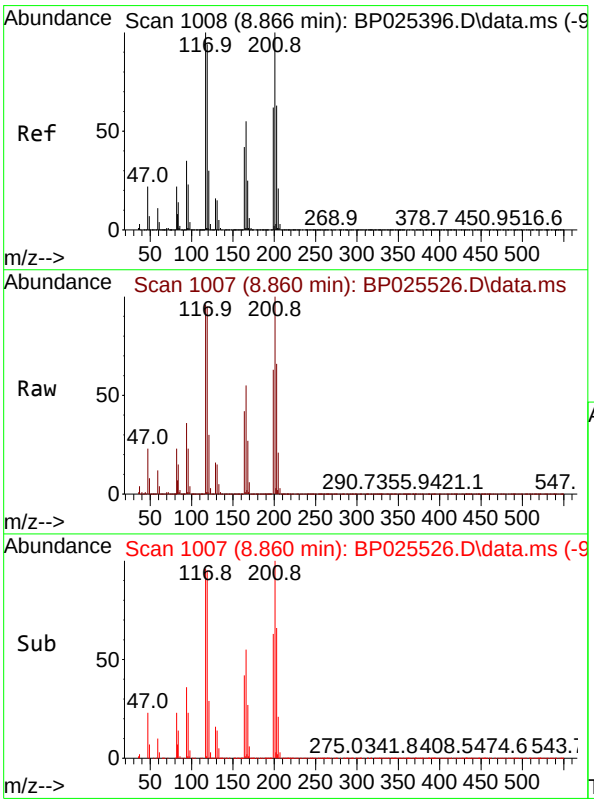
#17
2-Methylphenol
Concen: 39.881 ng
RT: 8.225 min Scan# 8
Delta R.T. -0.000 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:107 Resp: 430585

Ion	Ratio	Lower	Upper
107	100		
108	109.2	89.4	134.0
77	47.0	36.3	54.5
79	46.5	36.6	54.8

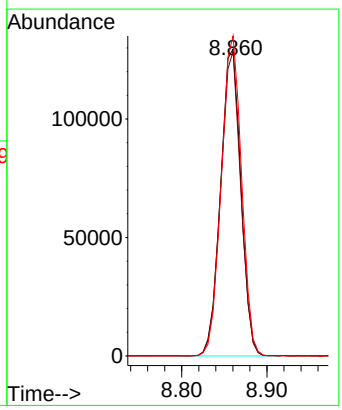


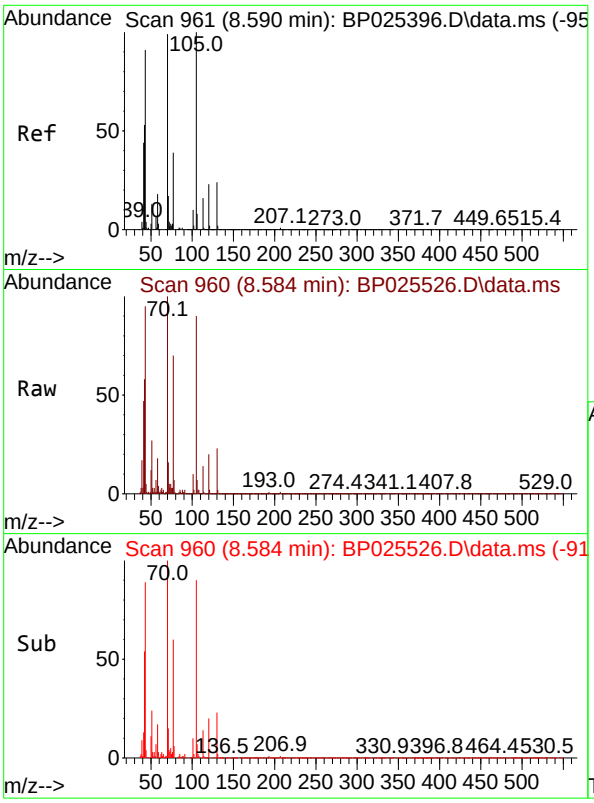


#18
Hexachloroethane
Concen: 39.729 ng
RT: 8.860 min Scan# 1007
Delta R.T. -0.006 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Tgt Ion:117 Resp: 214677

Ion	Ratio	Lower	Upper
117	100		
119	99.3	75.1	112.7
201	104.3	80.1	120.1



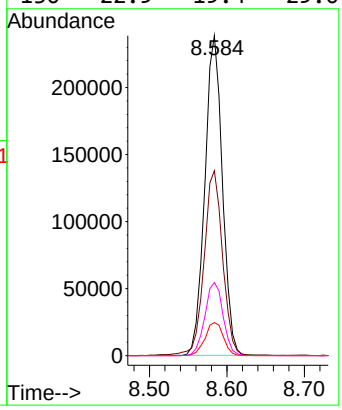


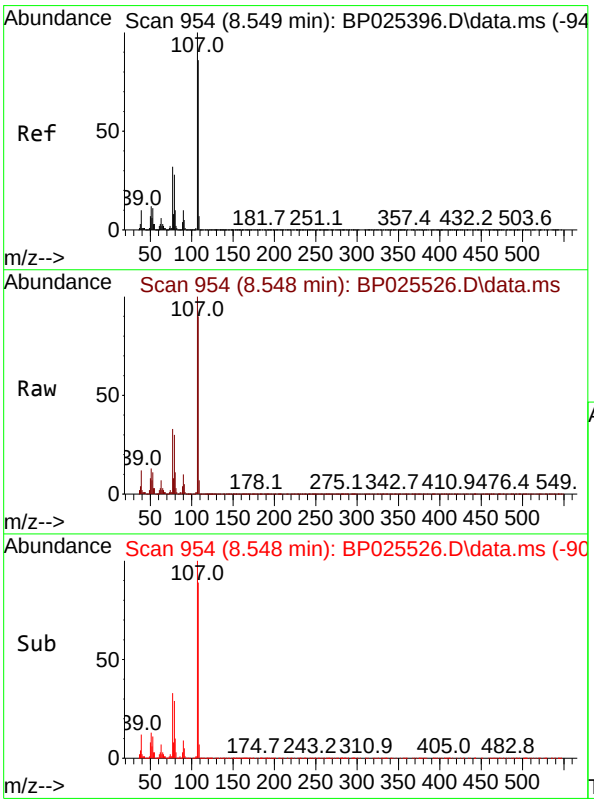
#19
n-Nitroso-di-n-propylamine
Concen: 38.186 ng
RT: 8.584 min Scan# 9
Delta R.T. -0.006 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 70 Resp: 374725

Ion	Ratio	Lower	Upper
70	100		
42	57.8	43.8	65.6
101	10.3	8.5	12.7
130	22.9	19.4	29.0

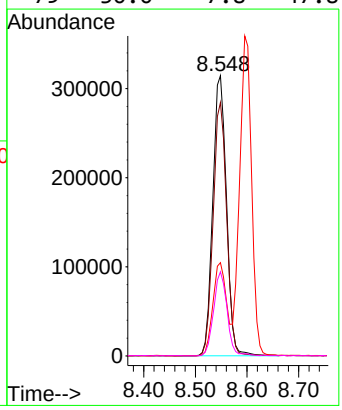


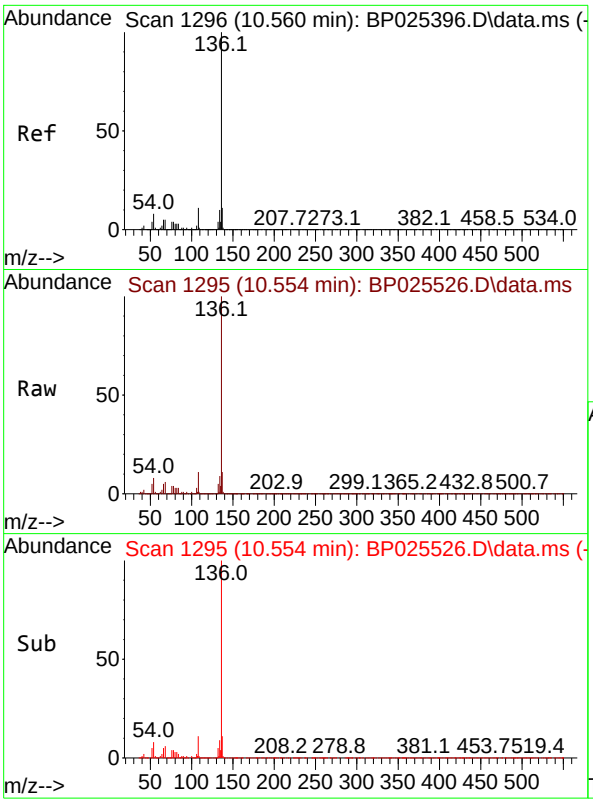


#20
3+4-Methylphenols
Concen: 38.594 ng
RT: 8.548 min Scan# 954
Delta R.T. -0.000 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Tgt Ion:107 Resp: 577590

Ion	Ratio	Lower	Upper
107	100		
108	90.4	66.3	106.3
77	33.3	12.3	52.3
79	30.0	7.8	47.8



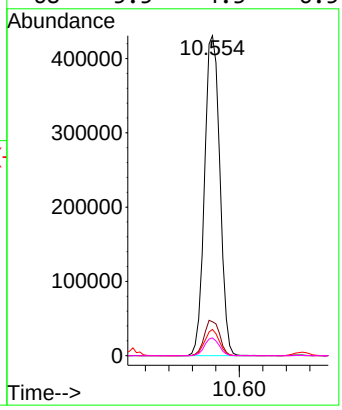


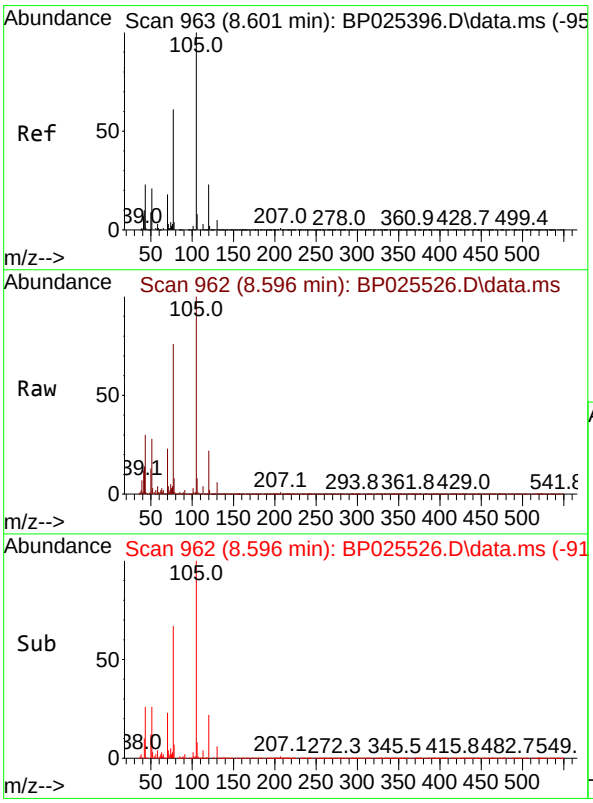
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.554 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:136 Resp: 778080

Ion	Ratio	Lower	Upper
136	100		
137	10.6	9.2	13.8
54	8.2	6.0	9.0
68	5.5	4.3	6.5

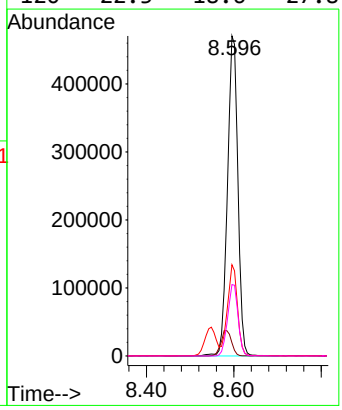


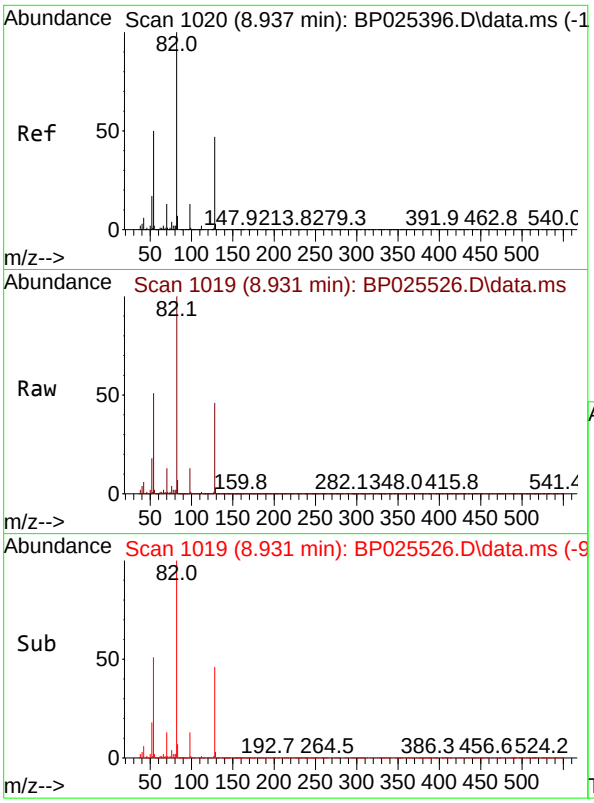


#22
Acetophenone
Concen: 39.831 ng
RT: 8.596 min Scan# 962
Delta R.T. -0.006 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Tgt Ion:105 Resp: 777206

Ion	Ratio	Lower	Upper
105	100		
71	4.1	2.6	4.0#
51	28.5	20.6	30.8
120	22.3	18.6	27.8



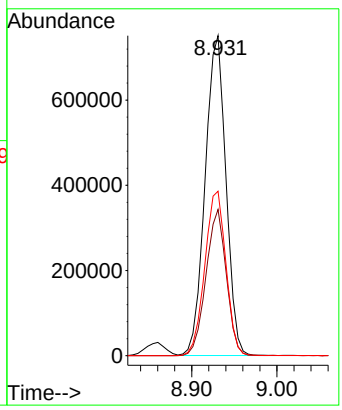


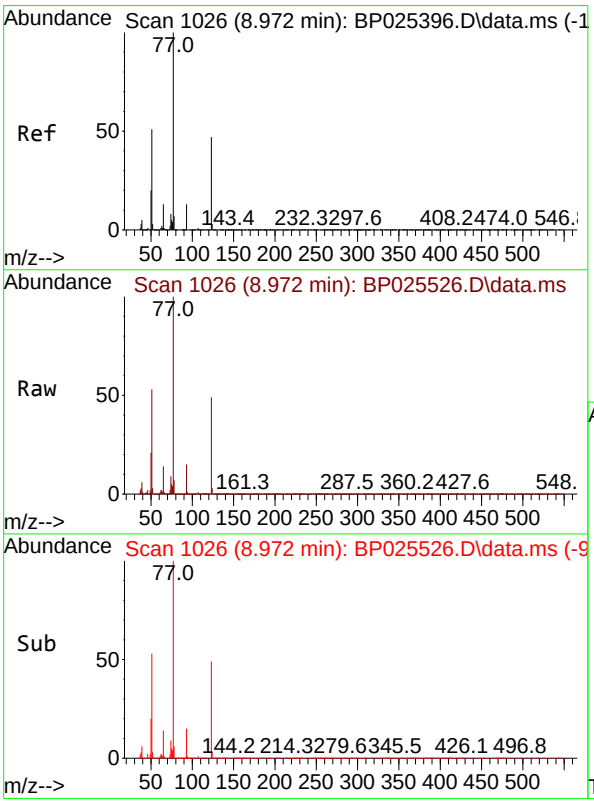
#23
Nitrobenzene-d5
Concen: 82.765 ng
RT: 8.931 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 82 Resp: 1273041

Ion	Ratio	Lower	Upper
82	100		
128	45.7	37.7	56.5
54	51.4	39.8	59.6

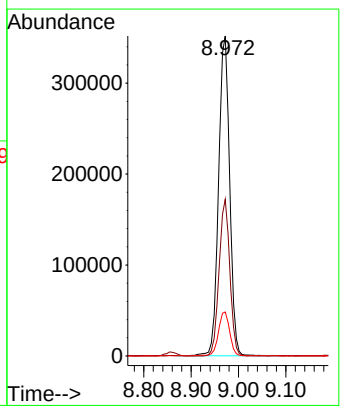


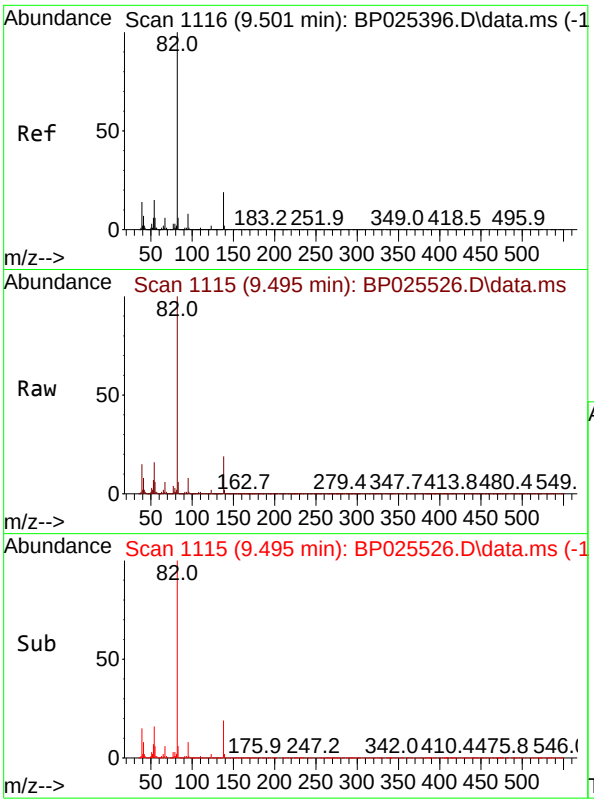


#24
Nitrobenzene
Concen: 41.406 ng
RT: 8.972 min Scan# 1026
Delta R.T. -0.000 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Tgt Ion: 77 Resp: 569192

Ion	Ratio	Lower	Upper
77	100		
123	48.9	38.6	58.0
65	13.8	10.6	15.8



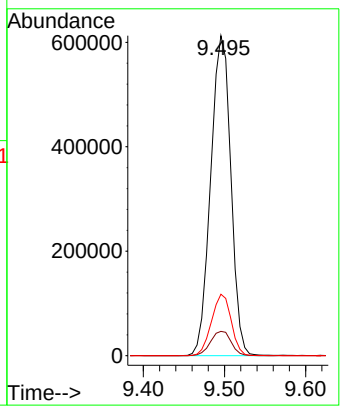


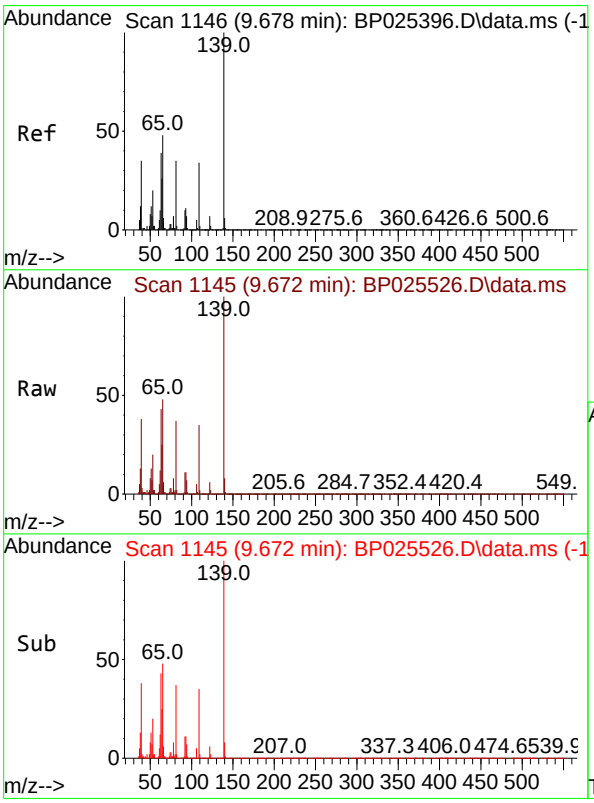
#25
Isophorone
Concen: 38.851 ng
RT: 9.495 min Scan# 11
Delta R.T. -0.006 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 82 Resp: 1057559

Ion	Ratio	Lower	Upper
82	100		
95	7.6	6.4	9.6
138	19.2	15.4	23.0

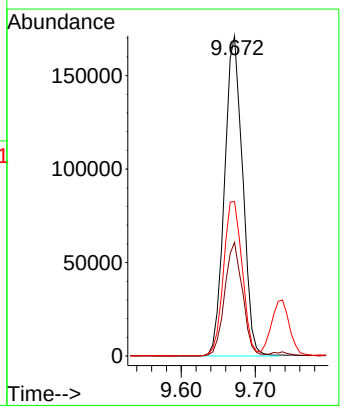


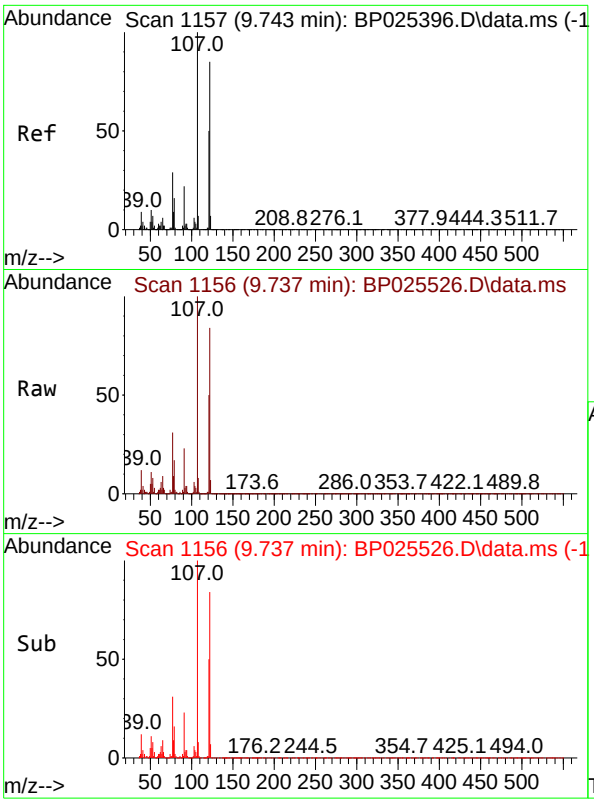


#26
2-Nitrophenol
Concen: 41.086 ng
RT: 9.672 min Scan# 1145
Delta R.T. -0.006 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Tgt Ion:139 Resp: 289854

Ion	Ratio	Lower	Upper
139	100		
109	35.5	26.9	40.3
65	48.3	38.3	57.5



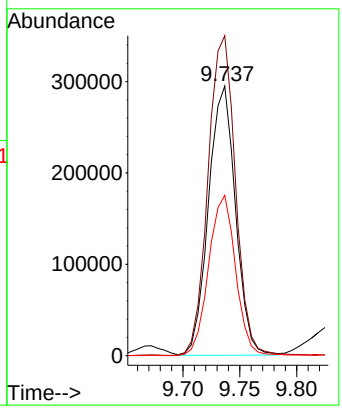


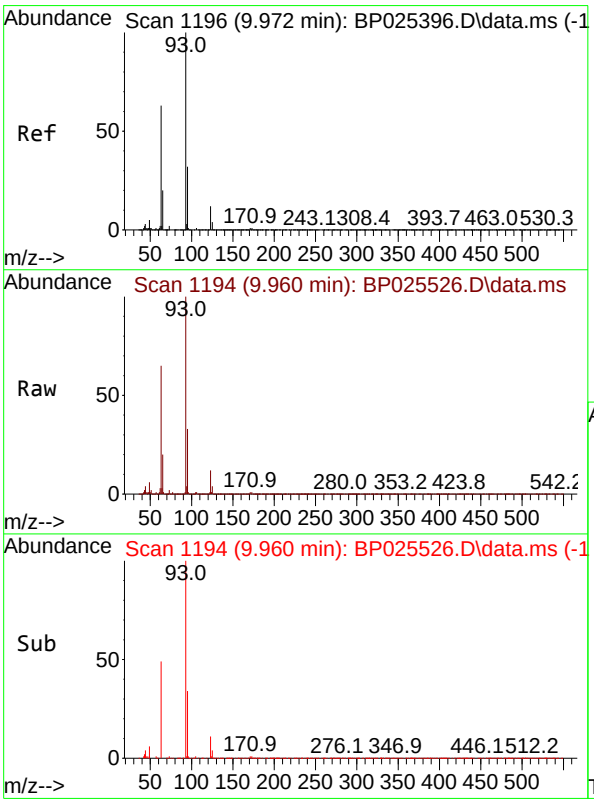
#27
2,4-Dimethylphenol
Concen: 40.225 ng
RT: 9.737 min Scan# 11
Delta R.T. -0.006 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:122 Resp: 488029

Ion	Ratio	Lower	Upper
122	100		
107	118.7	93.7	140.5
121	59.5	46.6	69.8

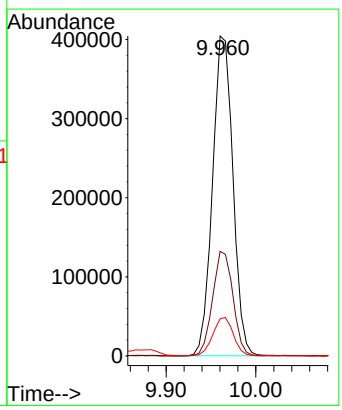


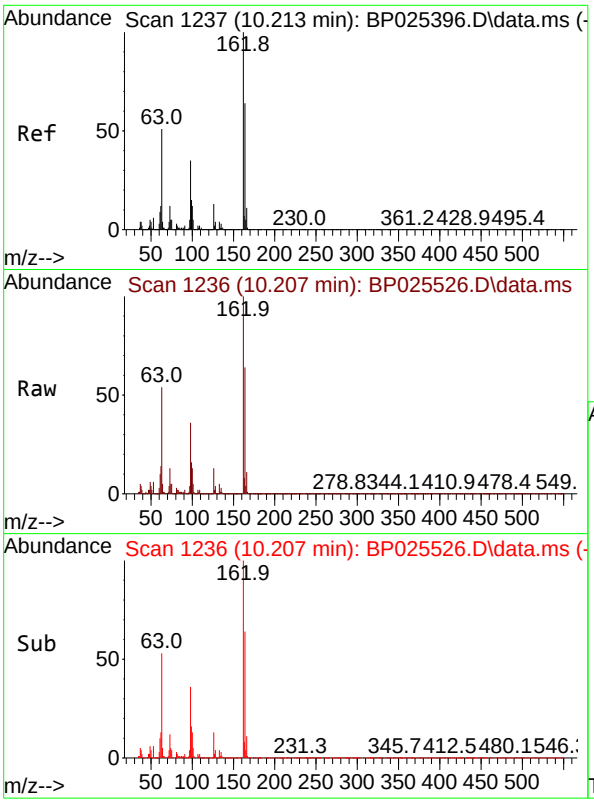


#28
bis(2-Chloroethoxy)methane
Concen: 38.812 ng
RT: 9.960 min Scan# 1194
Delta R.T. -0.012 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Tgt Ion: 93 Resp: 638647

Ion	Ratio	Lower	Upper
93	100		
95	32.7	25.4	38.0
123	11.7	9.4	14.0



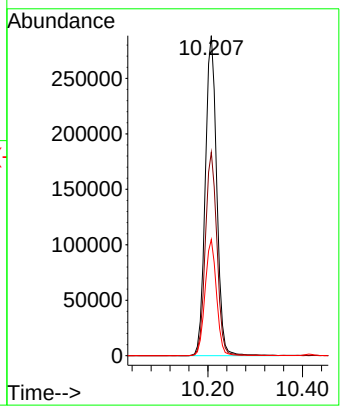


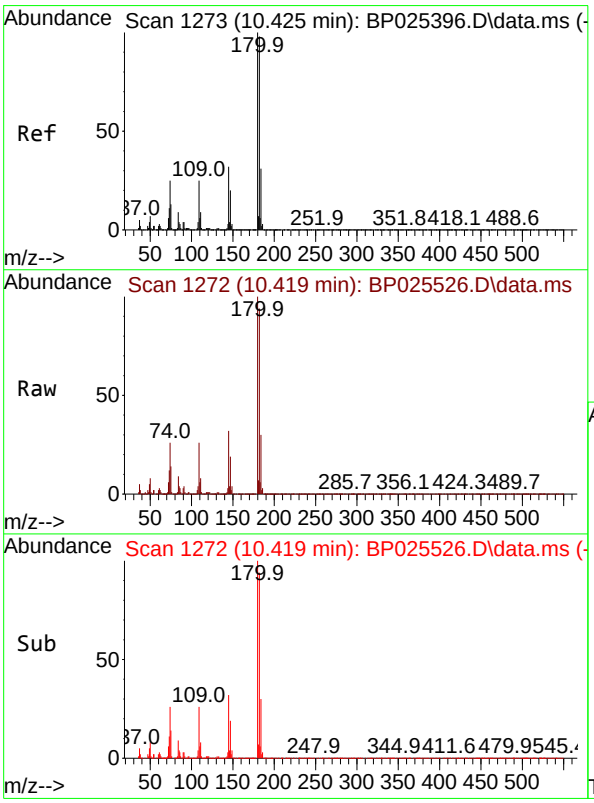
#29
2,4-Dichlorophenol
Concen: 40.055 ng
RT: 10.207 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:162 Resp: 482743

Ion	Ratio	Lower	Upper
162	100		
164	63.6	44.4	84.4
98	36.3	14.9	54.9

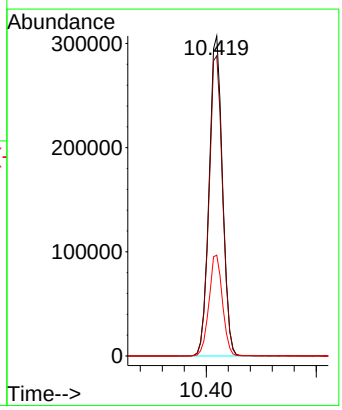


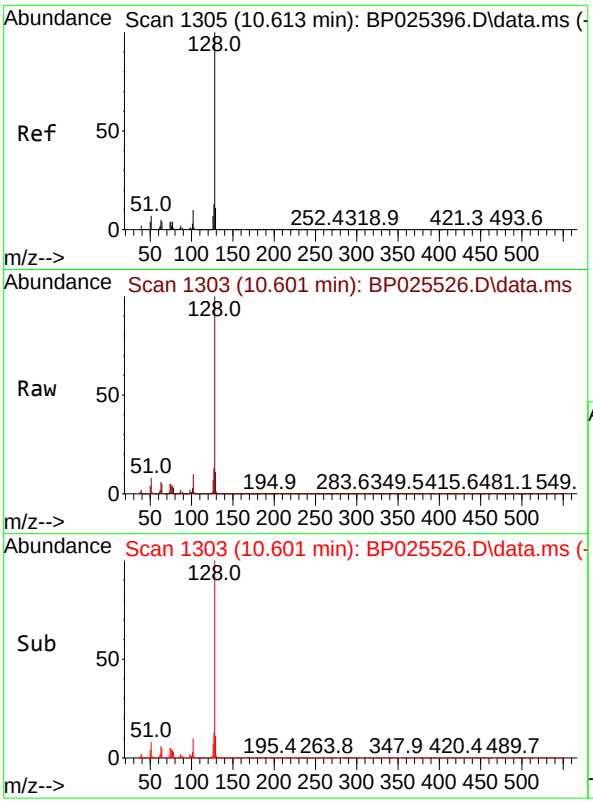


#30
1,2,4-Trichlorobenzene
Concen: 39.125 ng
RT: 10.419 min Scan# 1272
Delta R.T. -0.006 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Tgt Ion:180 Resp: 516908

Ion	Ratio	Lower	Upper
180	100		
182	93.8	78.0	117.0
145	31.5	25.9	38.9



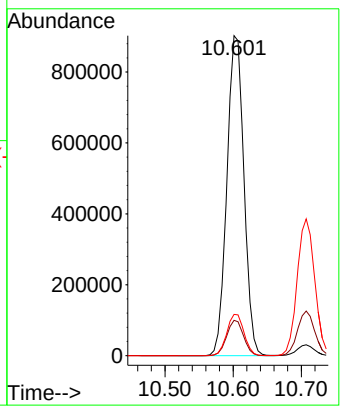


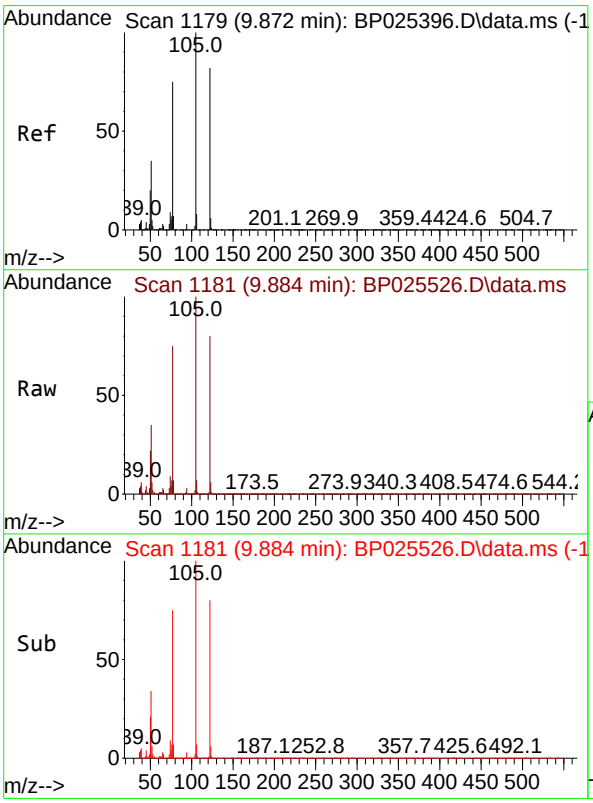
#31
Naphthalene
Concen: 38.828 ng
RT: 10.601 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:128 Resp: 1570246

Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.6	13.0
127	12.9	10.7	16.1

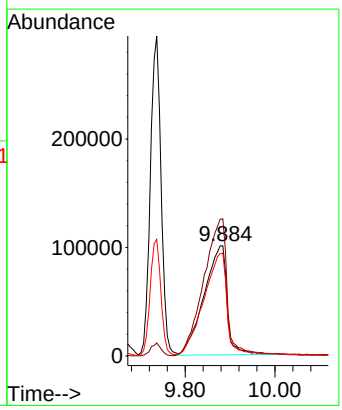


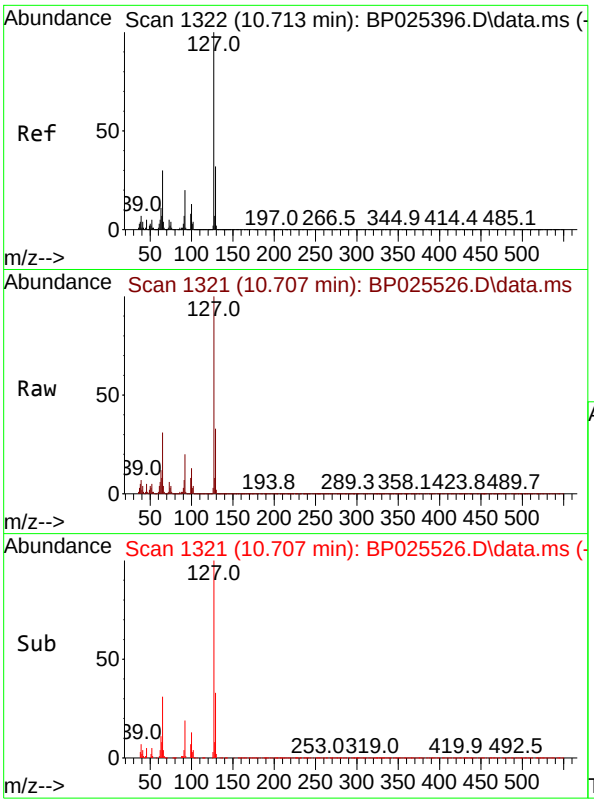


#32
Benzoic acid
Concen: 40.049 ng
RT: 9.884 min Scan# 1181
Delta R.T. 0.012 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Tgt Ion:122 Resp: 358720

Ion	Ratio	Lower	Upper
122	100		
105	124.5	100.6	140.6
77	93.3	71.5	111.5



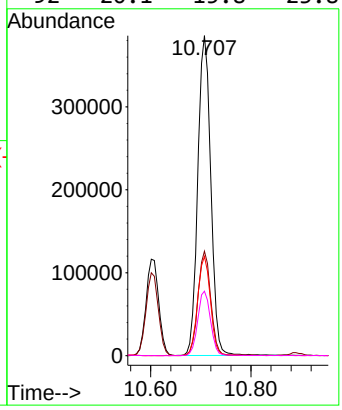


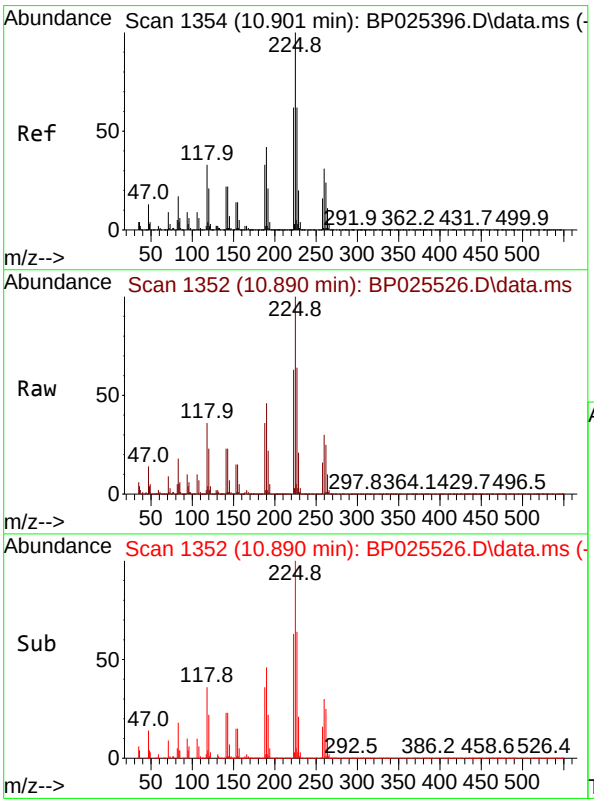
#33
4-Chloroaniline
Concen: 38.991 ng
RT: 10.707 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:127 Resp: 696525

Ion	Ratio	Lower	Upper
127	100		
129	32.7	25.4	38.2
65	31.0	23.8	35.6
92	20.1	15.8	23.8

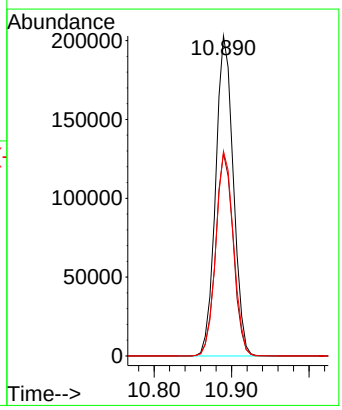


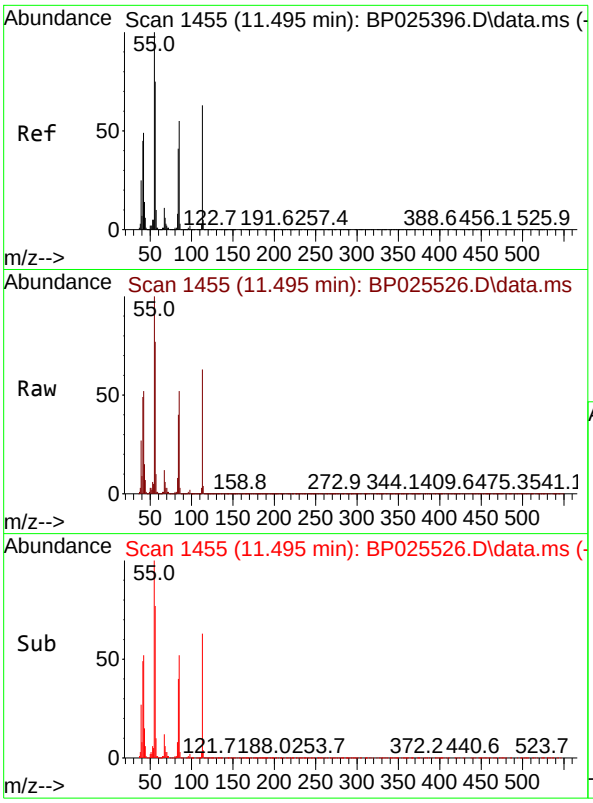


#34
Hexachlorobutadiene
Concen: 39.065 ng
RT: 10.890 min Scan# 1352
Delta R.T. -0.012 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Tgt Ion:225 Resp: 321424

Ion	Ratio	Lower	Upper
225	100		
223	63.3	50.0	75.0
227	64.0	49.7	74.5



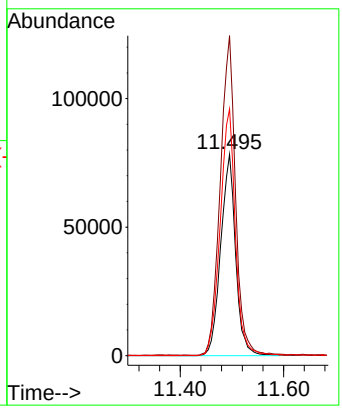


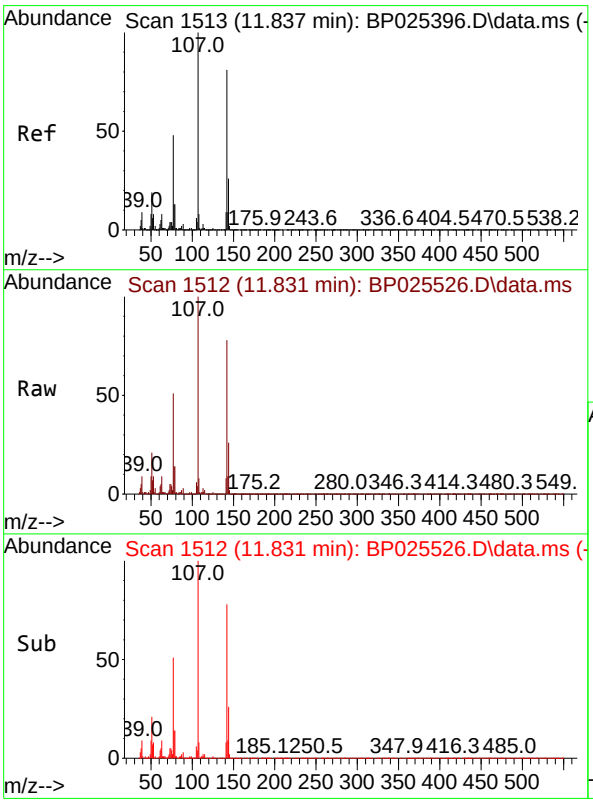
#35
Caprolactam
Concen: 35.484 ng
RT: 11.495 min Scan# 14
Delta R.T. -0.000 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:113 Resp: 156812

Ion	Ratio	Lower	Upper
113	100		
55	159.0	140.0	180.0
56	122.6	100.0	140.0

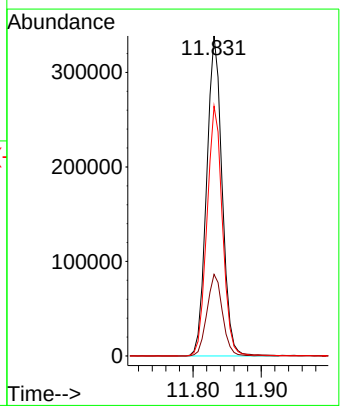


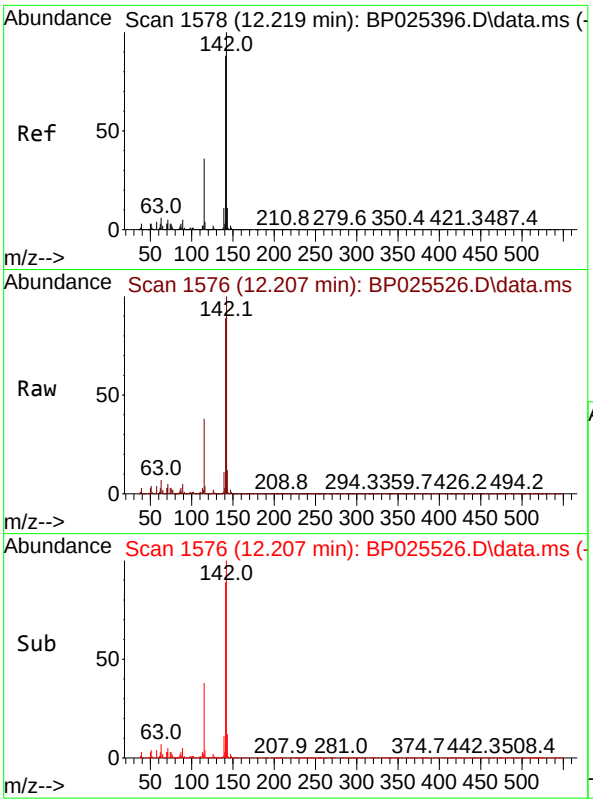


#36
4-Chloro-3-methylphenol
Concen: 38.676 ng
RT: 11.831 min Scan# 1512
Delta R.T. -0.006 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Tgt Ion:107 Resp: 534863

Ion	Ratio	Lower	Upper
107	100		
144	25.5	21.0	31.4
142	78.1	64.6	97.0



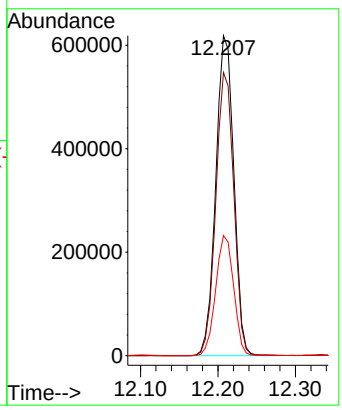


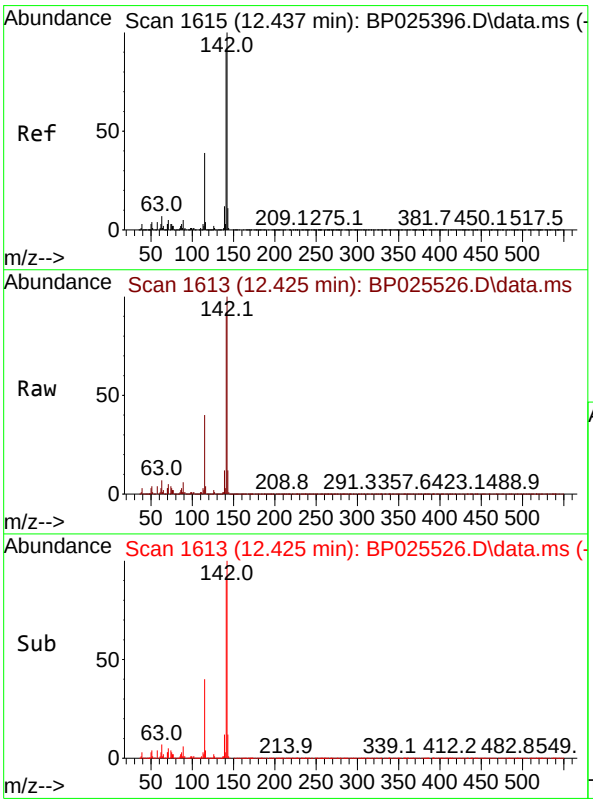
#37
2-Methylnaphthalene
Concen: 37.995 ng
RT: 12.207 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:142 Resp: 999947

Ion	Ratio	Lower	Upper
142	100		
141	88.5	70.3	105.5
115	37.6	28.9	43.3

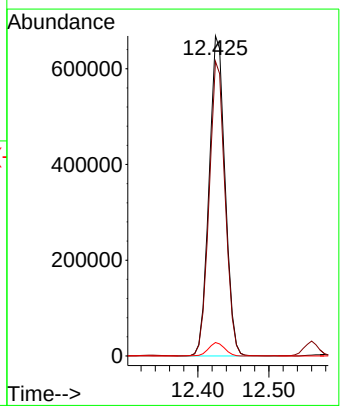


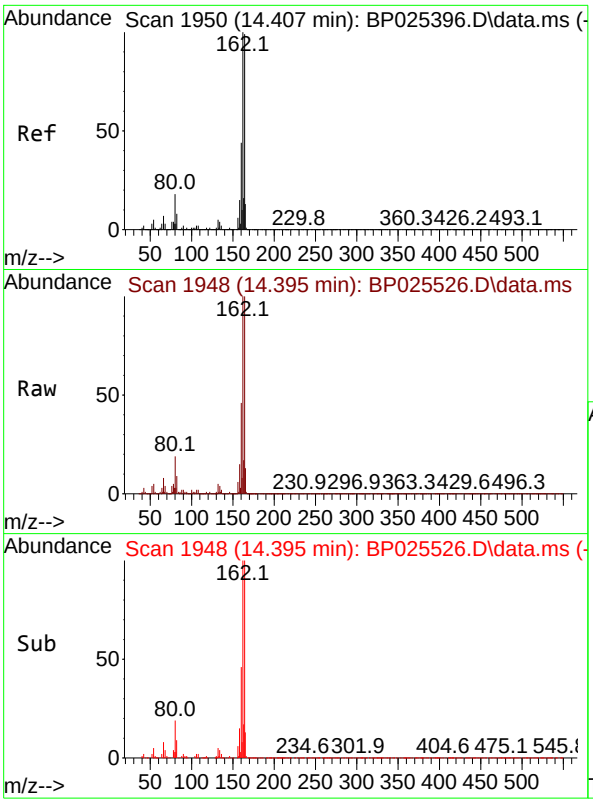


#38
1-Methylnaphthalene
Concen: 37.300 ng
RT: 12.425 min Scan# 1613
Delta R.T. -0.012 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Tgt Ion:142 Resp: 1043941

Ion	Ratio	Lower	Upper
142	100		
141	92.1	73.1	109.7
116	4.2	3.2	4.8



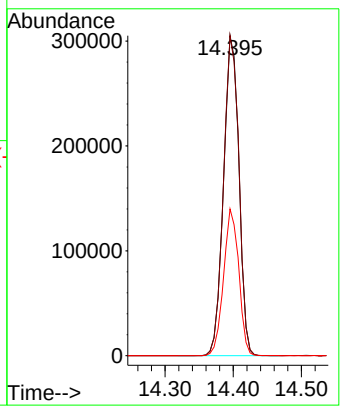


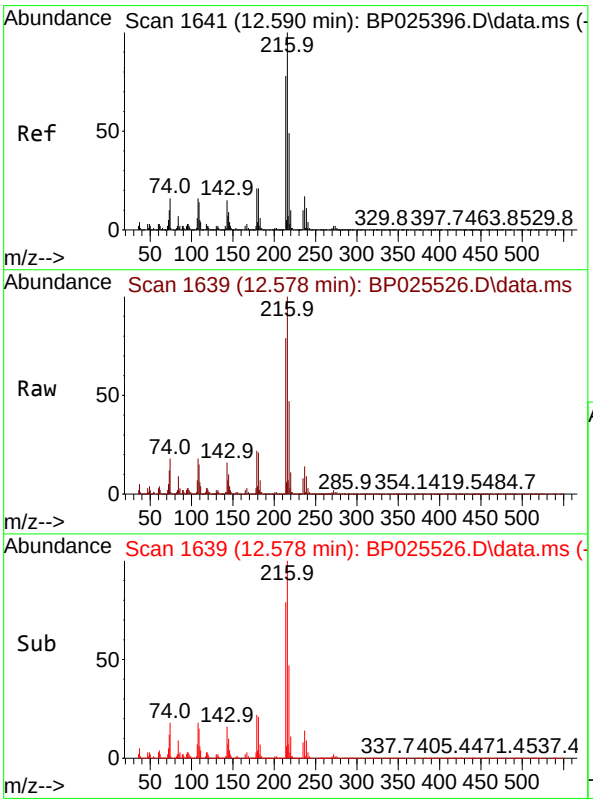
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.395 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:164 Resp: 480142

Ion	Ratio	Lower	Upper
164	100		
162	100.1	81.0	121.6
160	45.9	35.4	53.2

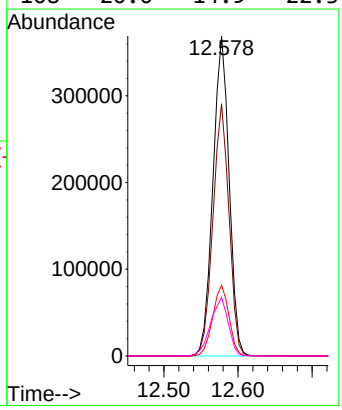


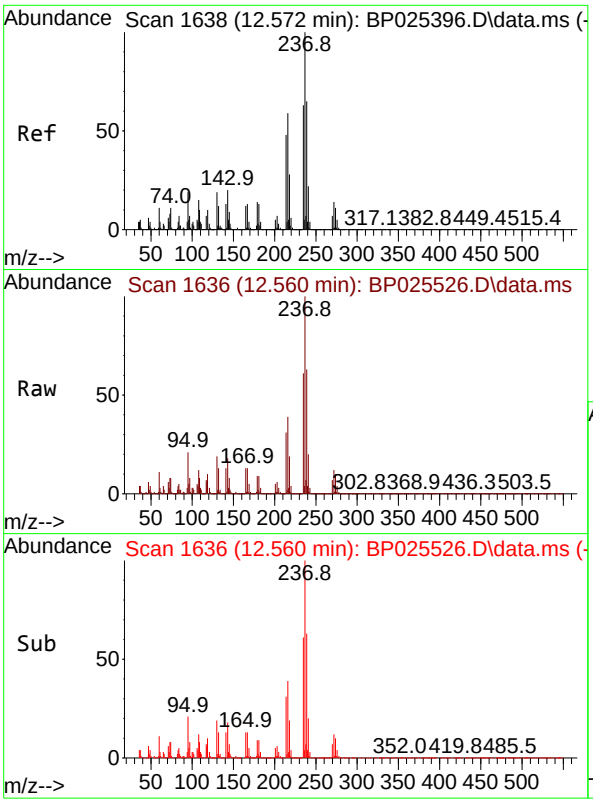


#40
1,2,4,5-Tetrachlorobenzene
Concen: 40.240 ng
RT: 12.578 min Scan# 1639
Delta R.T. -0.012 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Tgt Ion:216 Resp: 558004

Ion	Ratio	Lower	Upper
216	100		
214	78.2	63.0	94.4
179	22.3	17.1	25.7
108	20.0	14.9	22.3



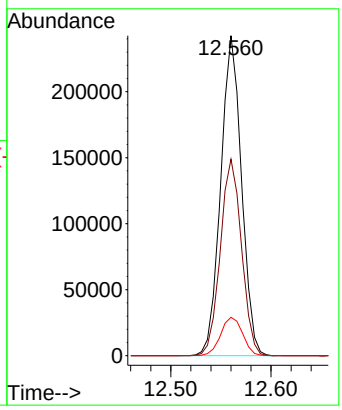


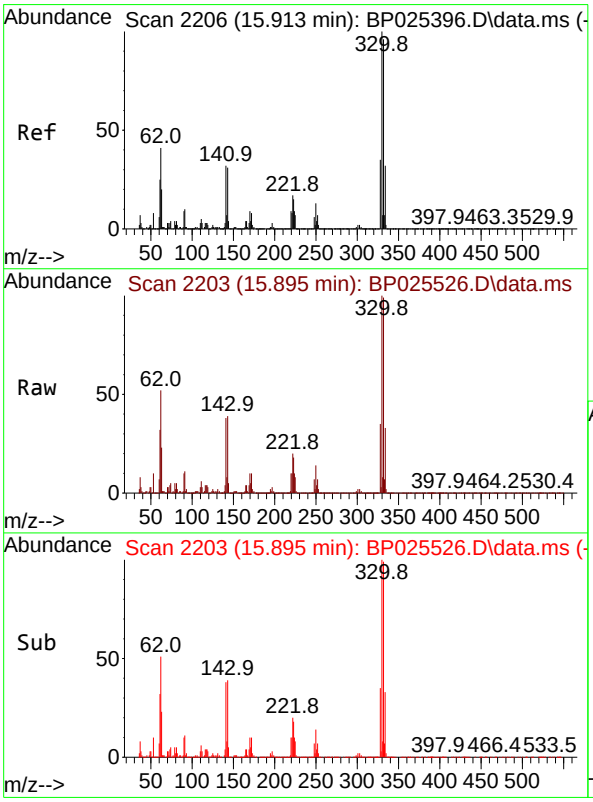
#41
Hexachlorocyclopentadiene
Concen: 41.668 ng
RT: 12.560 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:237 Resp: 349022

Ion	Ratio	Lower	Upper
237	100		
235	61.4	42.7	82.7
272	12.0	0.0	34.0

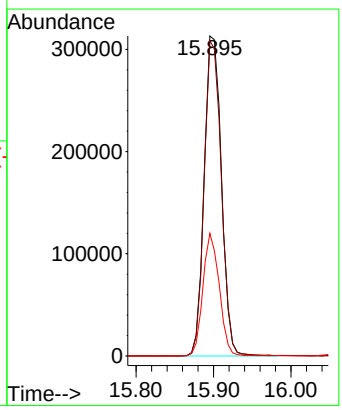


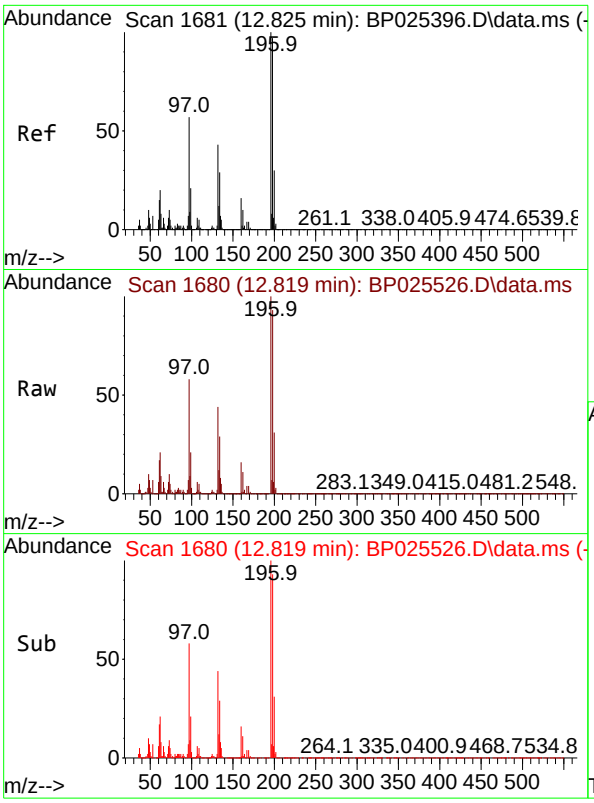


#42
2,4,6-Tribromophenol
Concen: 74.936 ng
RT: 15.895 min Scan# 2203
Delta R.T. -0.018 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Tgt Ion:330 Resp: 484295

Ion	Ratio	Lower	Upper
330	100		
332	97.6	77.3	115.9
141	36.4	26.6	39.8



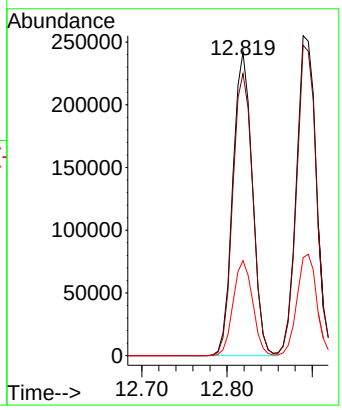


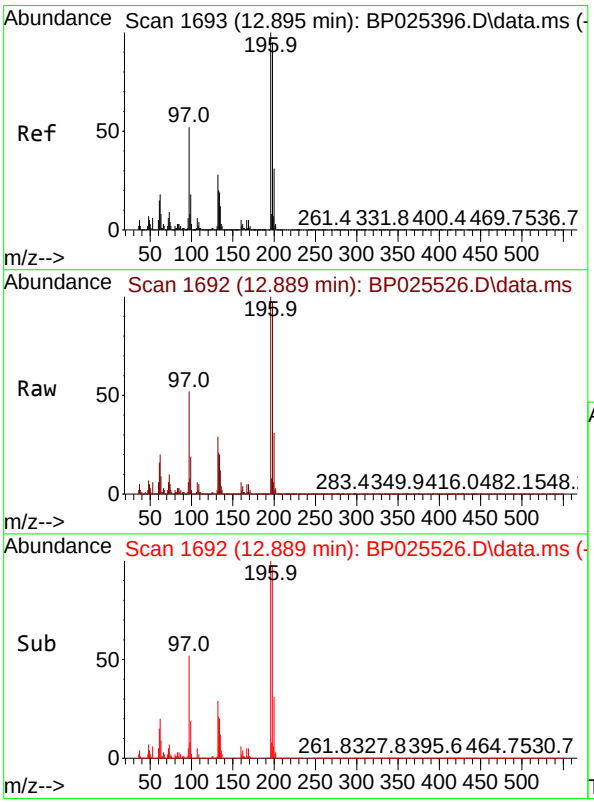
#43
2,4,6-Trichlorophenol
Concen: 41.205 ng
RT: 12.819 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:196 Resp: 385756

Ion	Ratio	Lower	Upper
196	100		
198	92.9	77.2	115.8
200	31.3	23.9	35.9

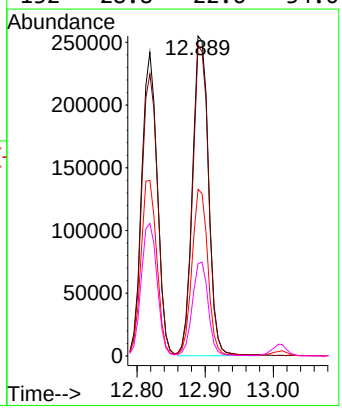


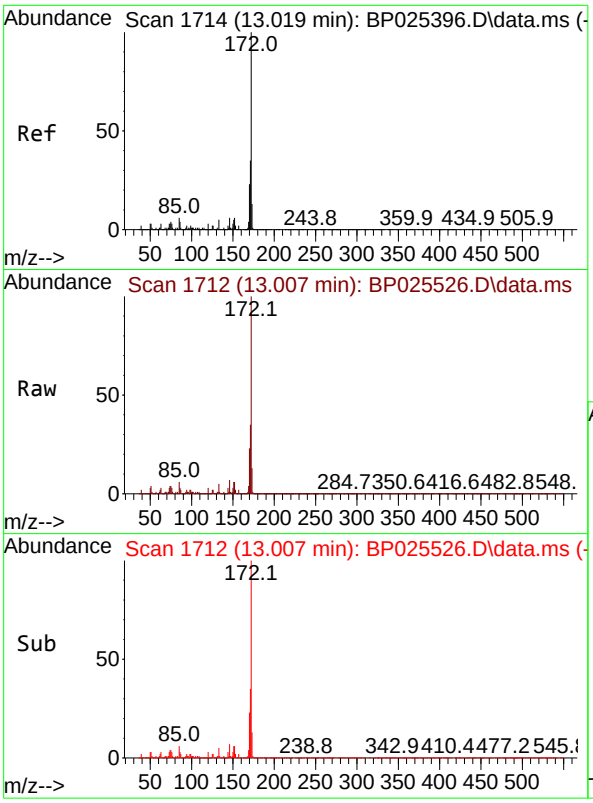


#44
2,4,5-Trichlorophenol
Concen: 40.598 ng
RT: 12.889 min Scan# 1692
Delta R.T. -0.006 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Tgt Ion:196 Resp: 416547

Ion	Ratio	Lower	Upper
196	100		
198	97.0	76.2	114.2
97	52.1	41.2	61.8
132	28.8	22.6	34.0



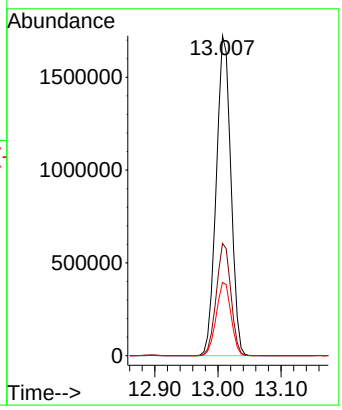


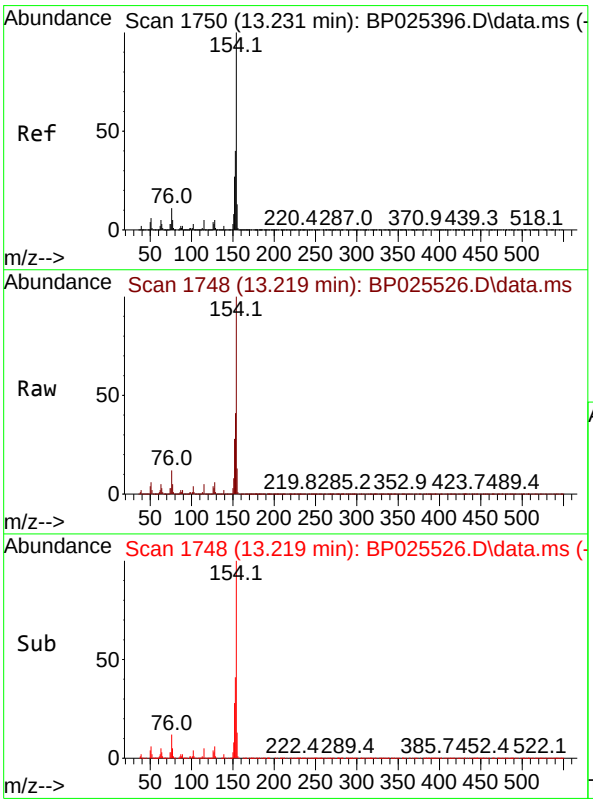
#45
2-Fluorobiphenyl
Concen: 78.794 ng
RT: 13.007 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:172 Resp: 2768196

Ion	Ratio	Lower	Upper
172	100		
171	35.1	28.1	42.1
170	22.9	18.6	28.0

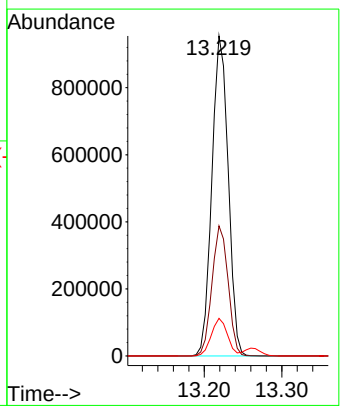


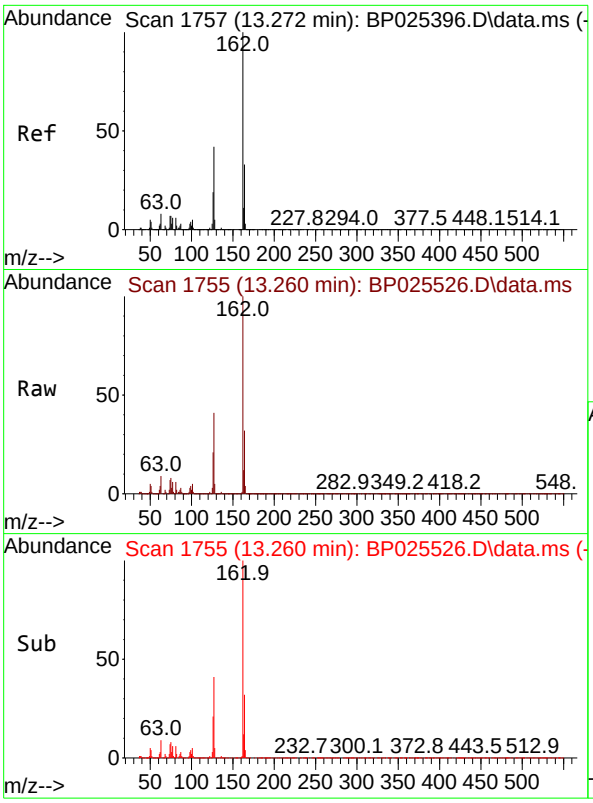


#46
1,1'-Biphenyl
Concen: 39.995 ng
RT: 13.219 min Scan# 1748
Delta R.T. -0.012 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Tgt Ion:154 Resp: 1394649

Ion	Ratio	Lower	Upper
154	100		
153	40.6	19.5	59.5
76	11.7	0.0	31.1



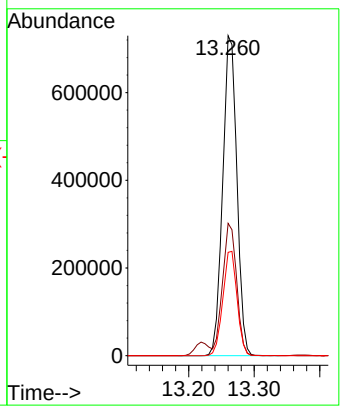


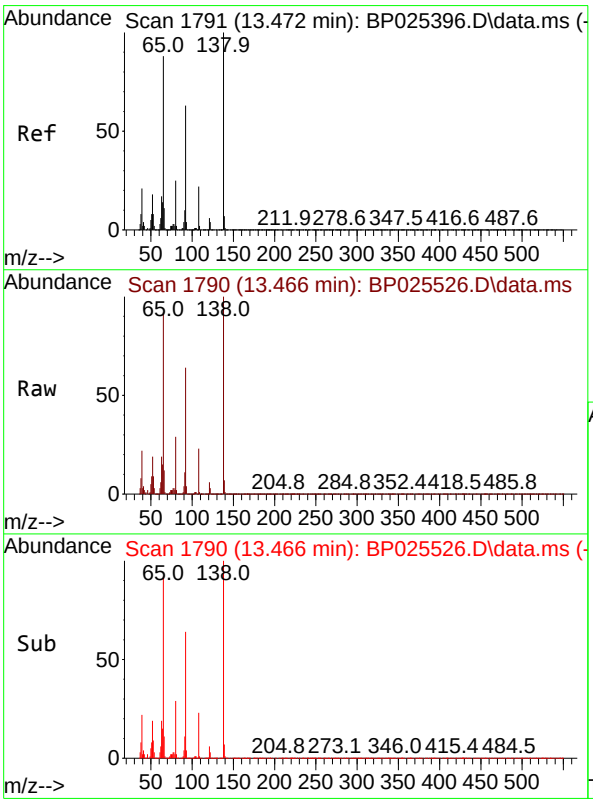
#47
2-Chloronaphthalene
Concen: 40.186 ng
RT: 13.260 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:162 Resp: 1090908

Ion	Ratio	Lower	Upper
162	100		
127	41.3	33.4	50.2
164	32.3	26.2	39.2

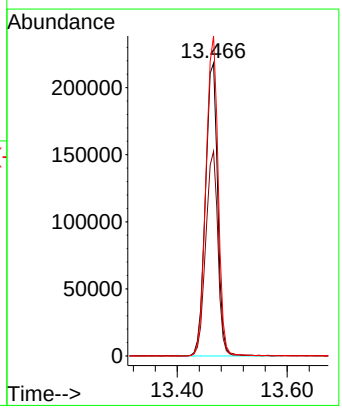


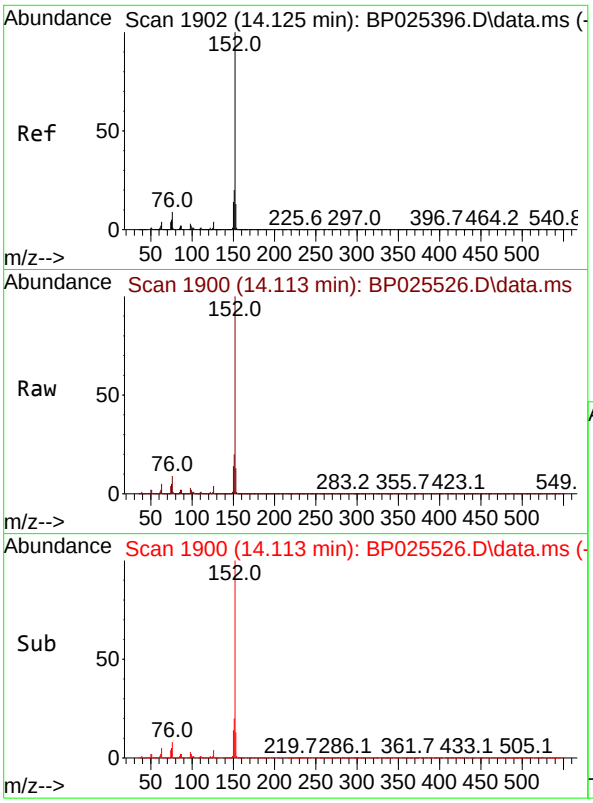


#48
2-Nitroaniline
Concen: 42.636 ng
RT: 13.466 min Scan# 1790
Delta R.T. -0.006 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Tgt Ion: 65 Resp: 337247

Ion	Ratio	Lower	Upper
65	100		
92	69.9	57.6	86.4
138	109.3	91.0	136.6



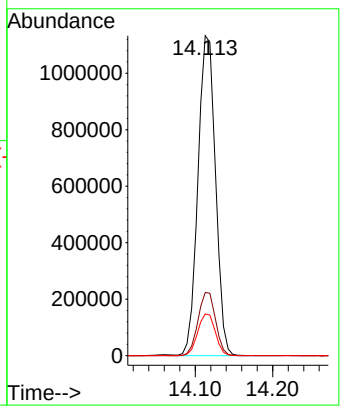


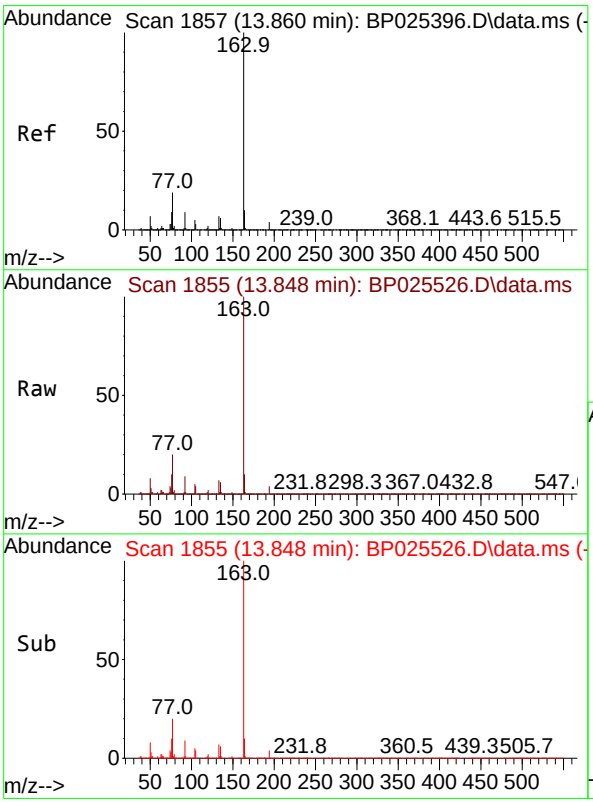
#49
Acenaphthylene
Concen: 39.644 ng
RT: 14.113 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:152 Resp: 1780779

Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.0	24.0
153	13.1	10.6	15.8

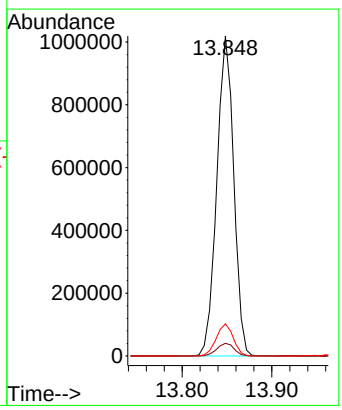


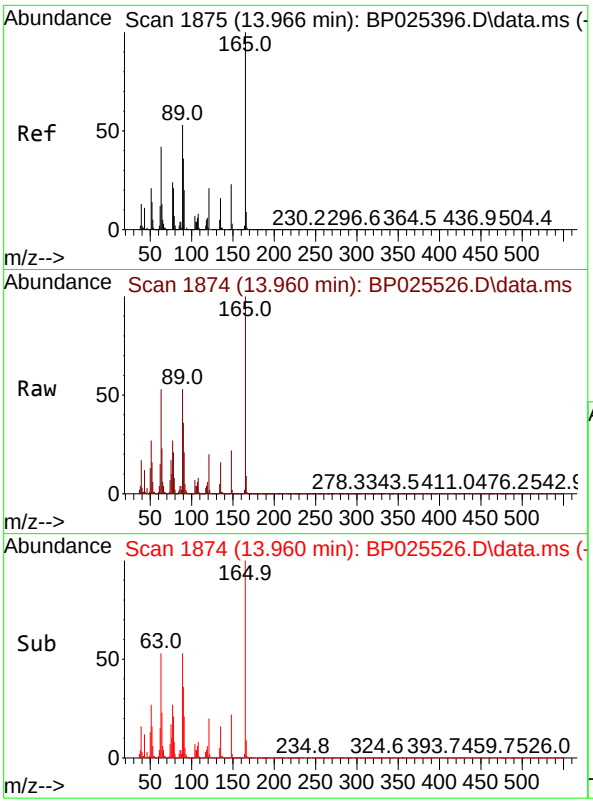


#50
Dimethylphthalate
Concen: 38.020 ng
RT: 13.848 min Scan# 1855
Delta R.T. -0.012 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Tgt Ion:163 Resp: 1336804

Ion	Ratio	Lower	Upper
163	100		
194	4.0	3.4	5.0
164	10.1	7.9	11.9



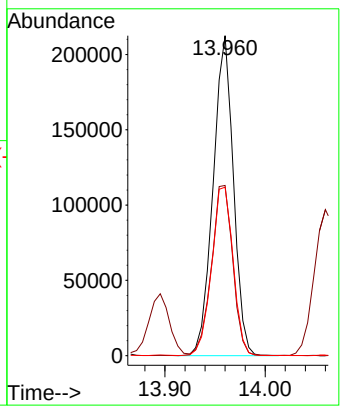


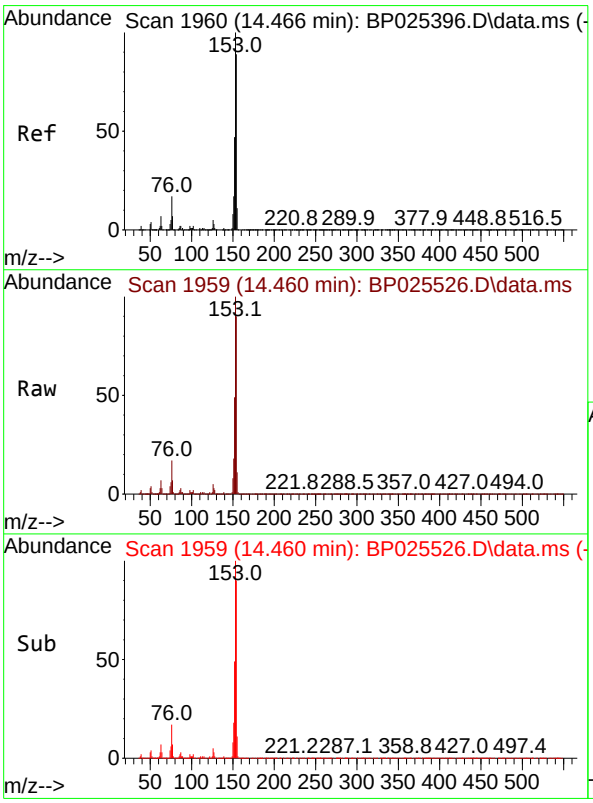
#51
2,6-Dinitrotoluene
Concen: 40.251 ng
RT: 13.960 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:165 Resp: 298291

Ion	Ratio	Lower	Upper
165	100		
63	53.2	40.9	61.3
89	52.7	42.1	63.1

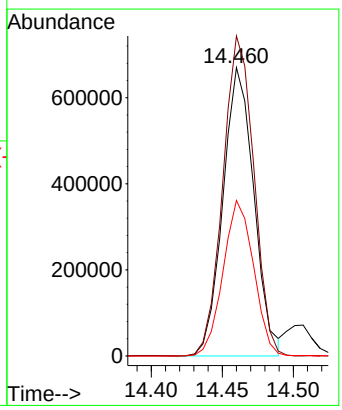


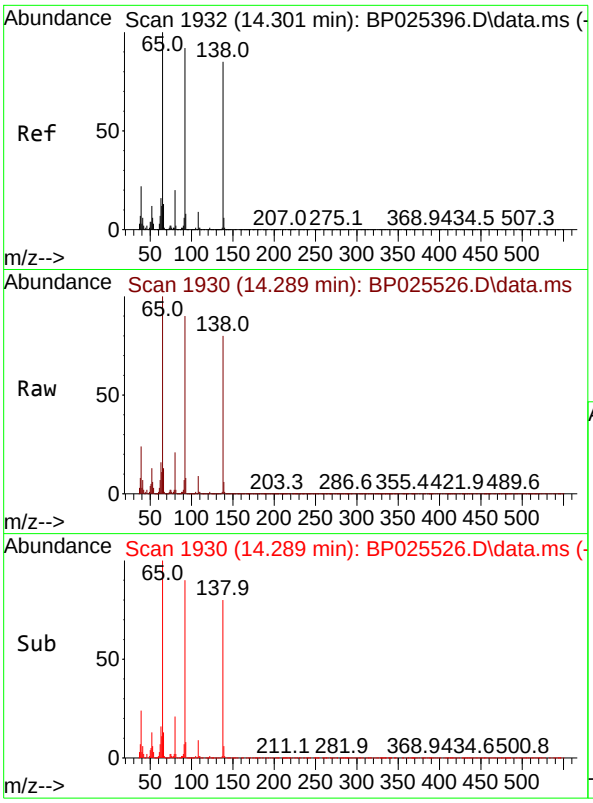


#52
Acenaphthene
Concen: 38.553 ng
RT: 14.460 min Scan# 1959
Delta R.T. -0.006 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Tgt Ion:154 Resp: 1016517

Ion	Ratio	Lower	Upper
154	100		
153	111.0	90.2	135.2
152	54.0	42.1	63.1



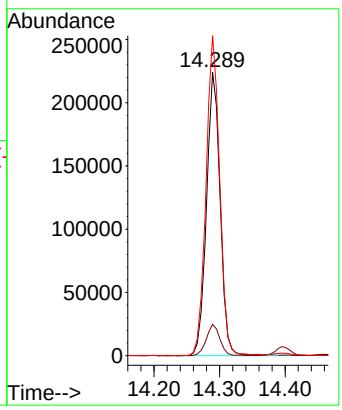


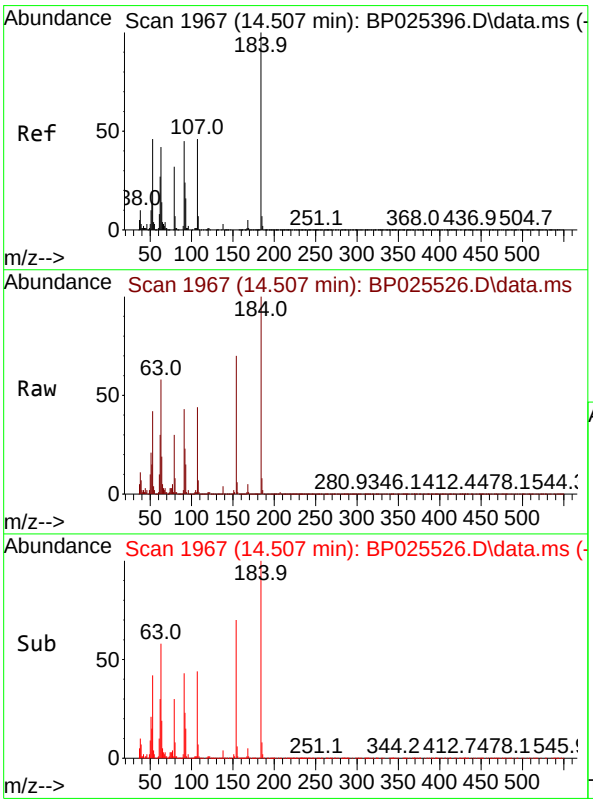
#53
3-Nitroaniline
Concen: 38.977 ng
RT: 14.289 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:138 Resp: 324980

Ion	Ratio	Lower	Upper
138	100		
108	11.1	8.3	12.5
92	112.9	86.2	129.2

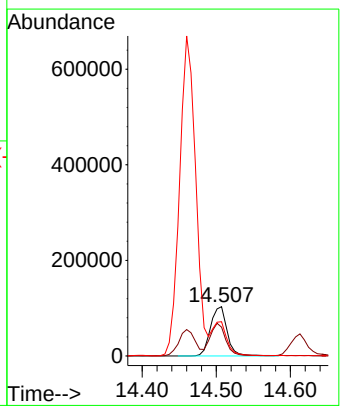


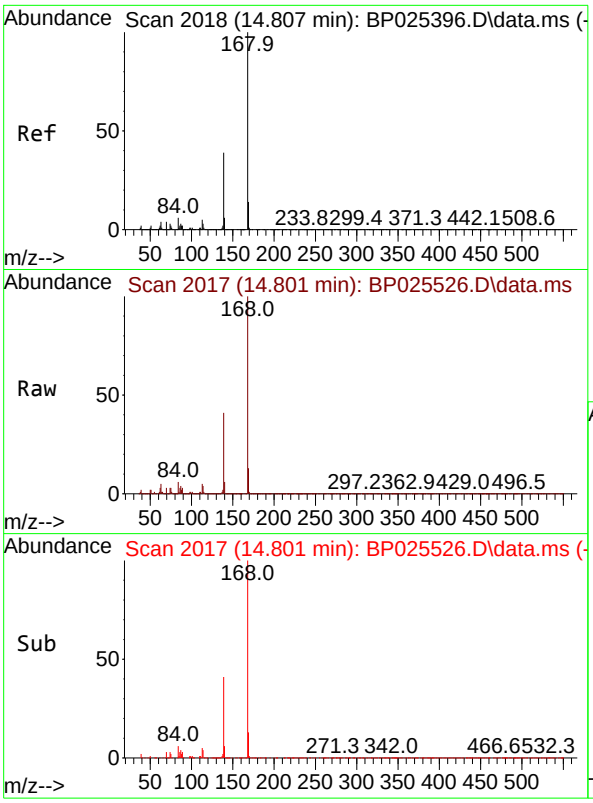


#54
2,4-Dinitrophenol
Concen: 40.644 ng
RT: 14.507 min Scan# 1967
Delta R.T. -0.000 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Tgt Ion:184 Resp: 160853

Ion	Ratio	Lower	Upper
184	100		
63	58.4	49.4	74.2
154	69.5	54.6	82.0



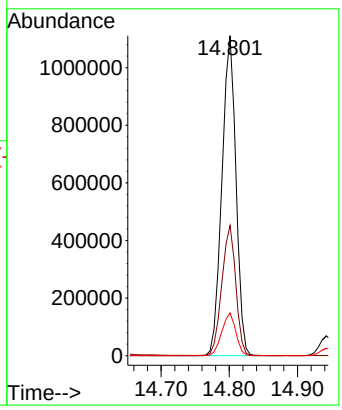


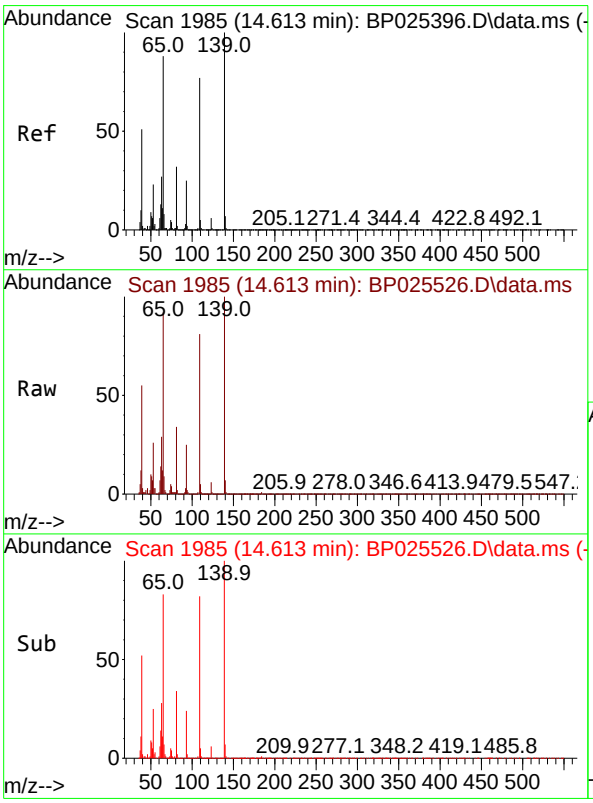
#55
Dibenzofuran
Concen: 38.235 ng
RT: 14.801 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:168 Resp: 1593872

Ion	Ratio	Lower	Upper
168	100		
139	40.7	31.5	47.3
169	13.4	10.9	16.3

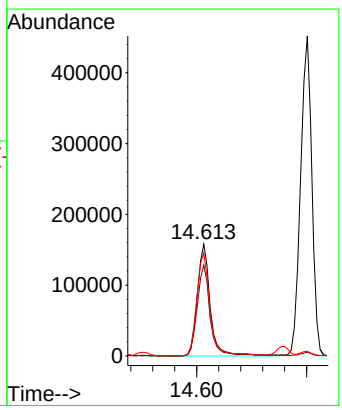


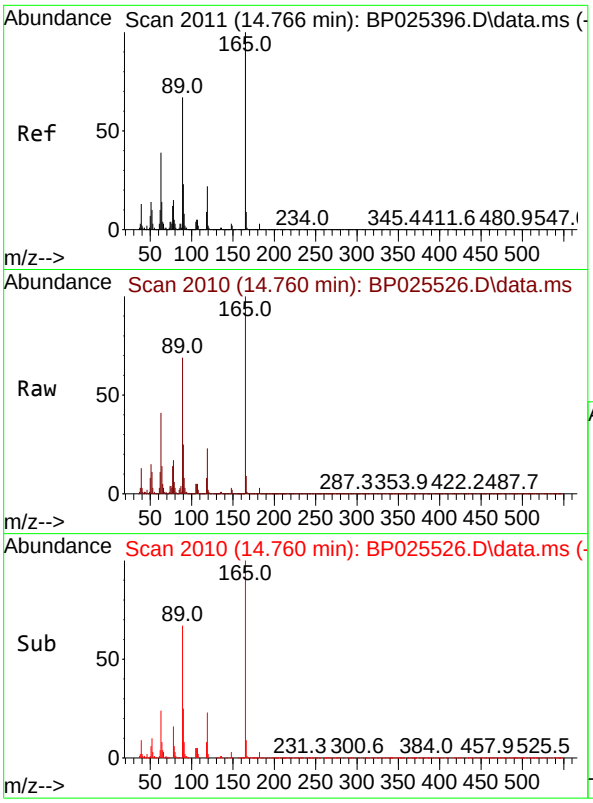


#56
4-Nitrophenol
Concen: 37.635 ng
RT: 14.613 min Scan# 1985
Delta R.T. -0.000 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Tgt Ion:139 Resp: 257855

Ion	Ratio	Lower	Upper
139	100		
109	81.2	56.6	96.6
65	92.3	68.2	108.2



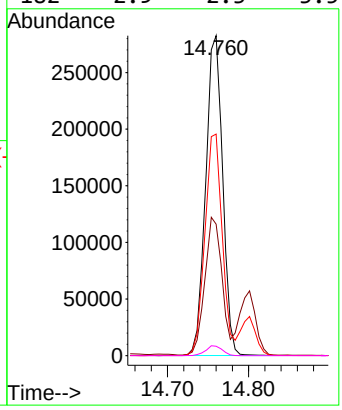


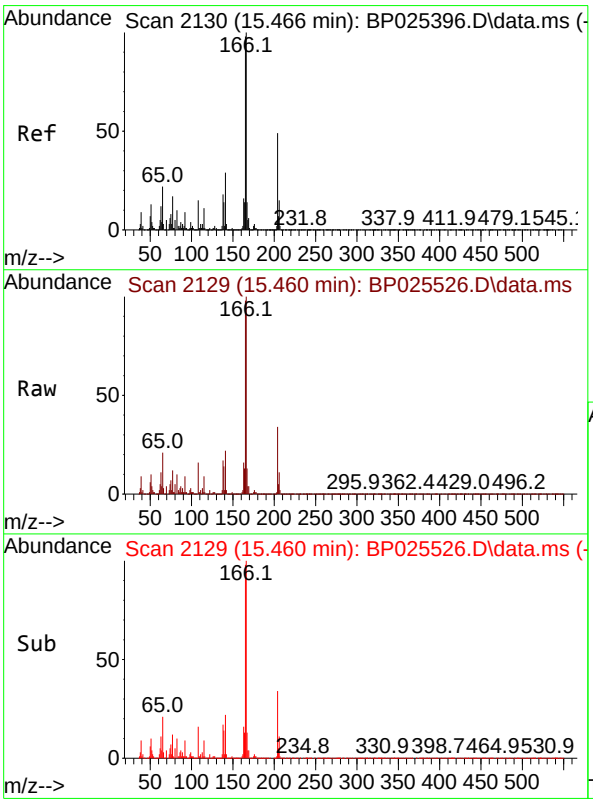
#57
2,4-Dinitrotoluene
Concen: 38.698 ng
RT: 14.760 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:165 Resp: 409171

Ion	Ratio	Lower	Upper
165	100		
63	41.1	31.4	47.2
89	69.3	53.3	79.9
182	2.9	2.3	3.5

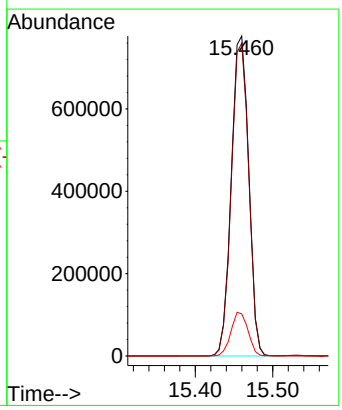


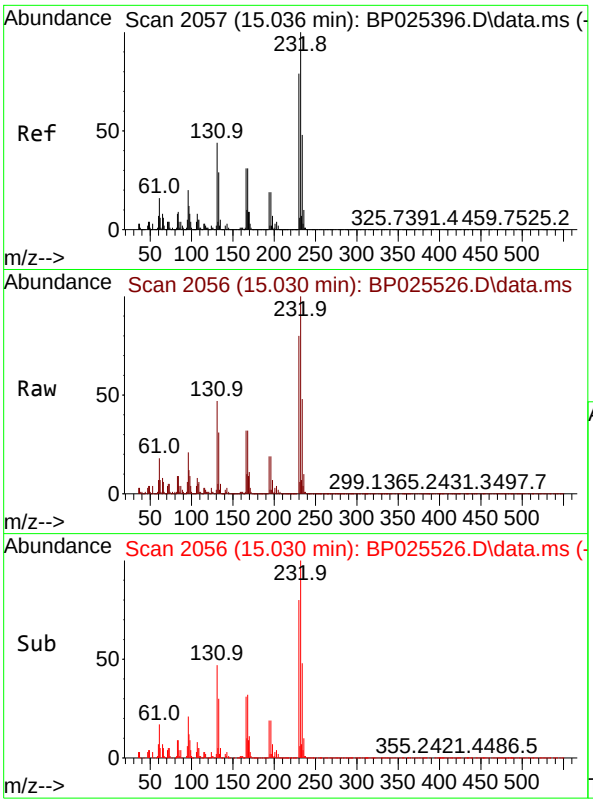


#58
Fluorene
Concen: 36.973 ng
RT: 15.460 min Scan# 2129
Delta R.T. -0.006 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Tgt Ion:166 Resp: 1216177

Ion	Ratio	Lower	Upper
166	100		
165	97.7	78.8	118.2
167	13.1	11.0	16.4



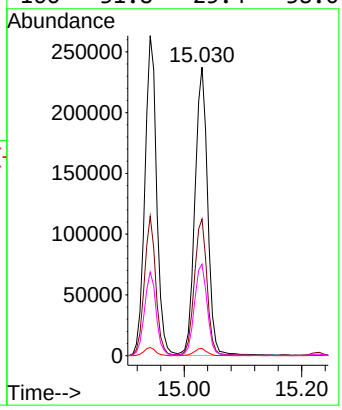


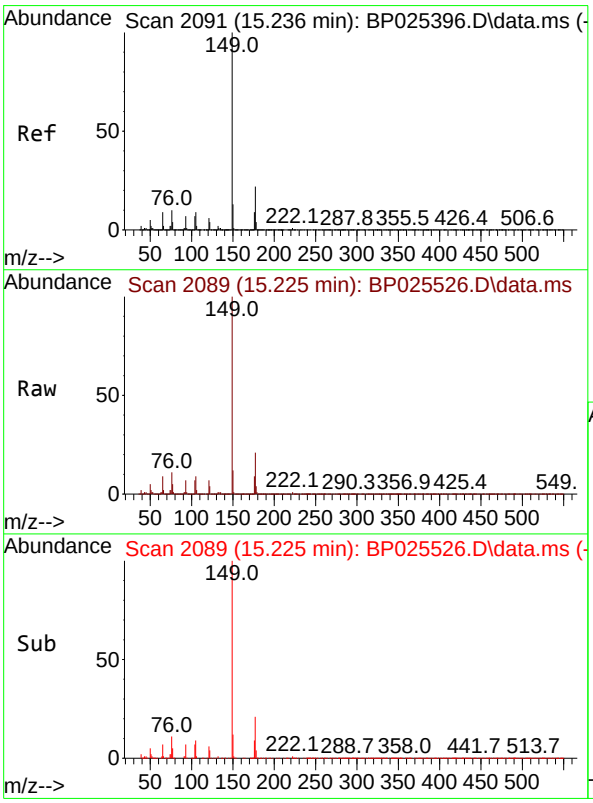
#59
2,3,4,6-Tetrachlorophenol
Concen: 39.239 ng
RT: 15.030 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:232 Resp: 355491

Ion	Ratio	Lower	Upper
232	100		
131	47.5	37.0	55.6
130	2.4	1.9	2.9
166	31.8	25.4	38.0

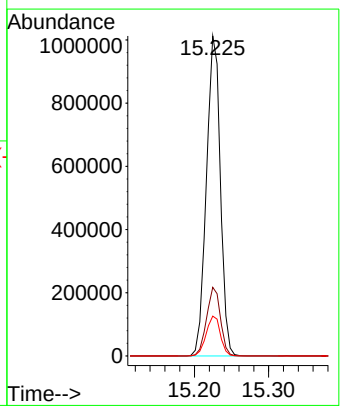


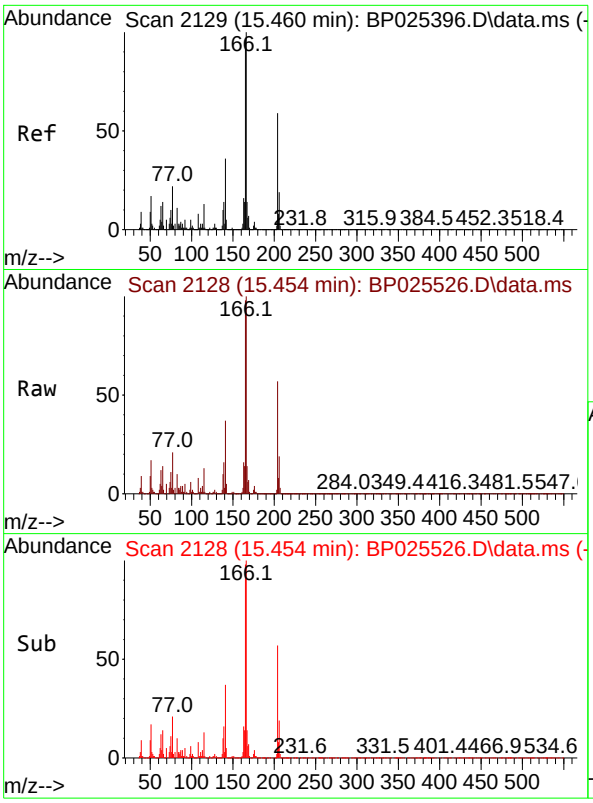


#60
Diethylphthalate
Concen: 37.056 ng
RT: 15.225 min Scan# 2089
Delta R.T. -0.012 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Tgt Ion:149 Resp: 1323887

Ion	Ratio	Lower	Upper
149	100		
177	21.5	17.3	25.9
150	12.5	10.3	15.5



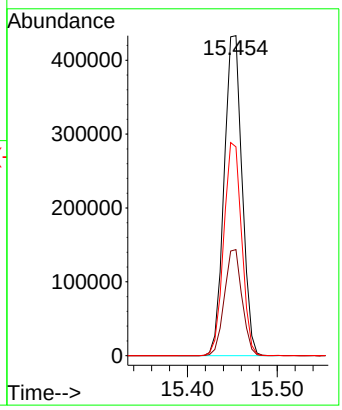


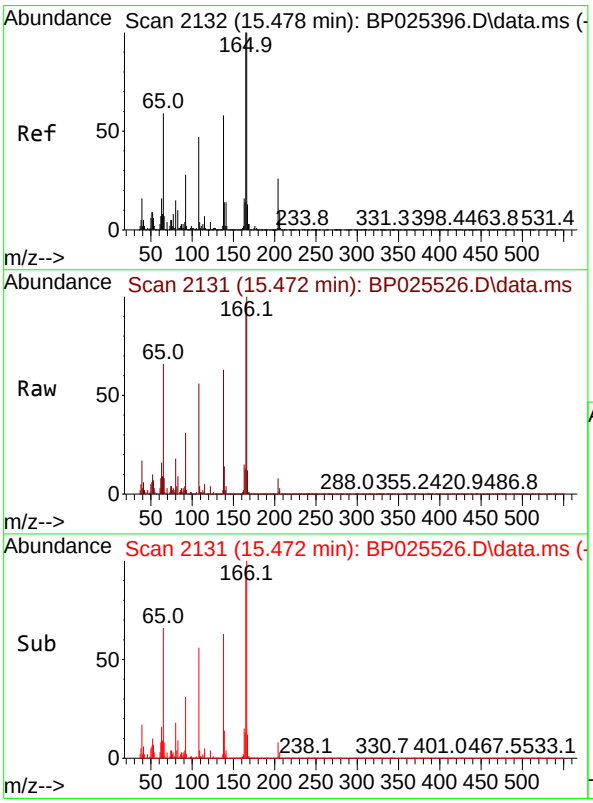
#61
4-Chlorophenyl-phenylether
Concen: 36.730 ng
RT: 15.454 min Scan# 21
Delta R.T. -0.006 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:204 Resp: 600871

Ion	Ratio	Lower	Upper
204	100		
206	33.2	25.8	38.8
141	65.2	49.4	74.2

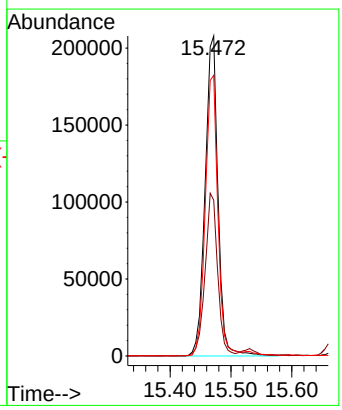


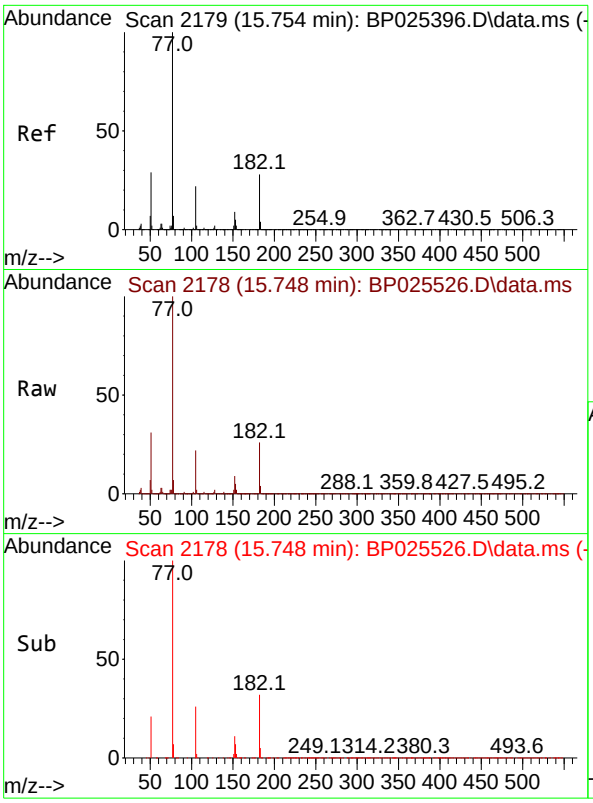


#62
4-Nitroaniline
Concen: 35.928 ng
RT: 15.472 min Scan# 2131
Delta R.T. -0.006 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Tgt Ion:138 Resp: 307105

Ion	Ratio	Lower	Upper
138	100		
92	48.7	29.1	69.1
108	87.7	61.5	101.5



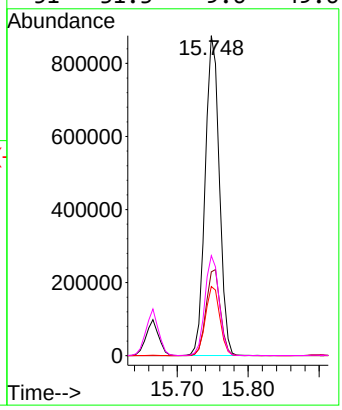


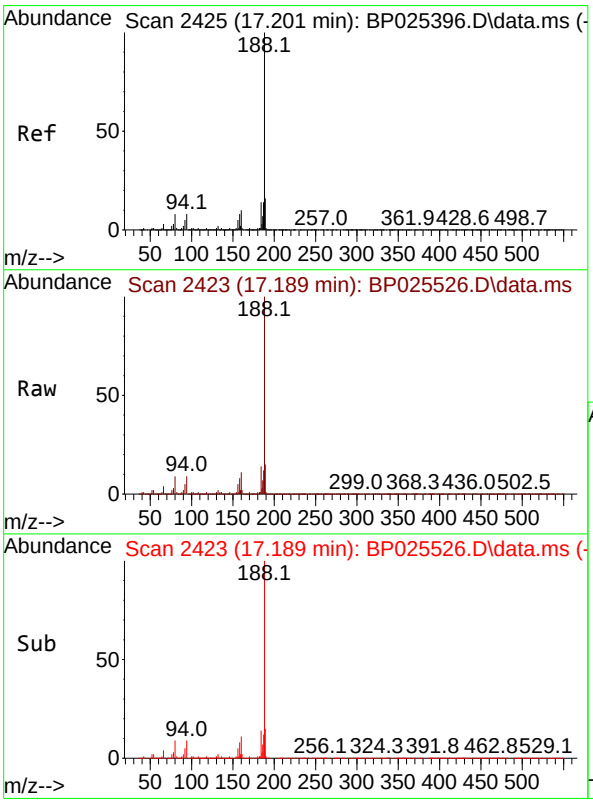
#63
Azobenzene
Concen: 39.764 ng
RT: 15.748 min Scan# 21
Delta R.T. -0.006 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 77 Resp: 1216437

Ion	Ratio	Lower	Upper
77	100		
182	26.2	7.5	47.5
105	21.6	2.1	42.1
51	31.3	9.6	49.6

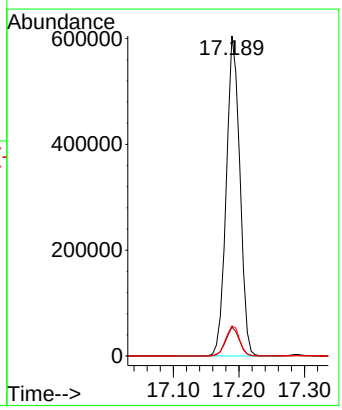


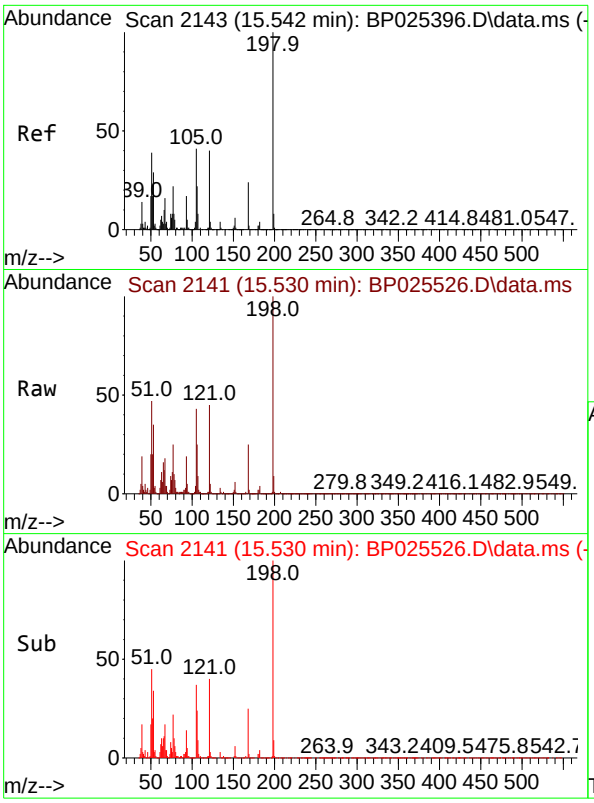


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.189 min Scan# 2423
Delta R.T. -0.012 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Tgt Ion:188 Resp: 869173

Ion	Ratio	Lower	Upper
188	100		
94	9.0	6.6	10.0
80	9.4	6.7	10.1



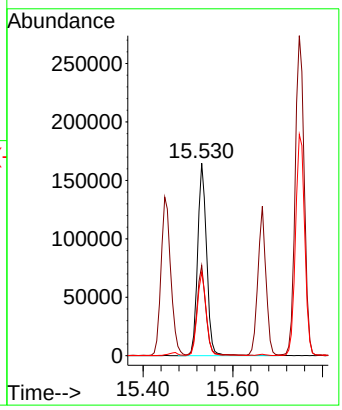


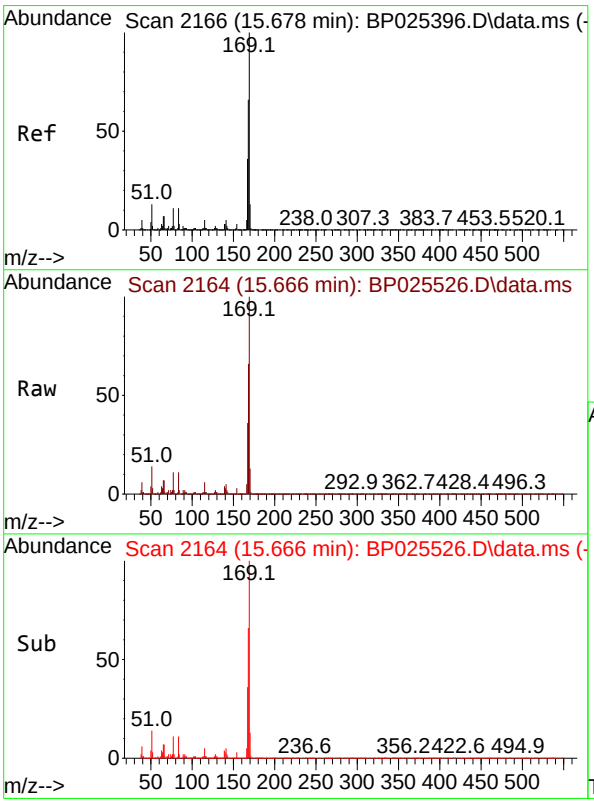
#65
4,6-Dinitro-2-methylphenol
Concen: 42.016 ng
RT: 15.530 min Scan# 21
Delta R.T. -0.012 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:198 Resp: 227645

Ion	Ratio	Lower	Upper
198	100		
51	46.8	19.6	59.6
105	43.4	20.9	60.9

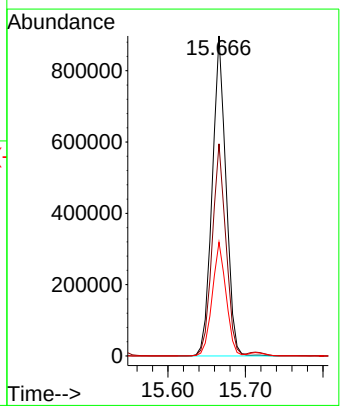


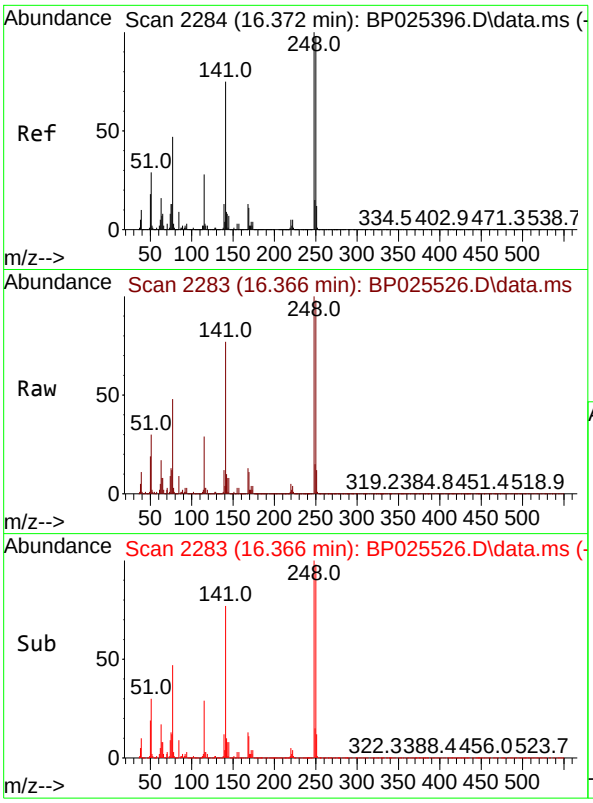


#66
n-Nitrosodiphenylamine
Concen: 41.848 ng
RT: 15.666 min Scan# 2164
Delta R.T. -0.012 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Tgt Ion:169 Resp: 1109160

Ion	Ratio	Lower	Upper
169	100		
168	66.3	53.2	79.8
167	35.6	28.7	43.1



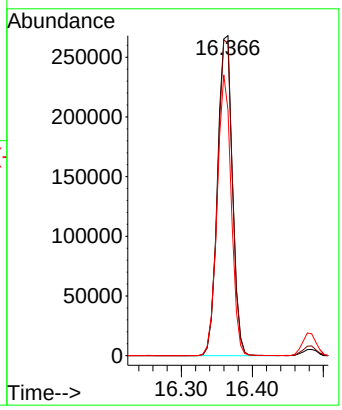


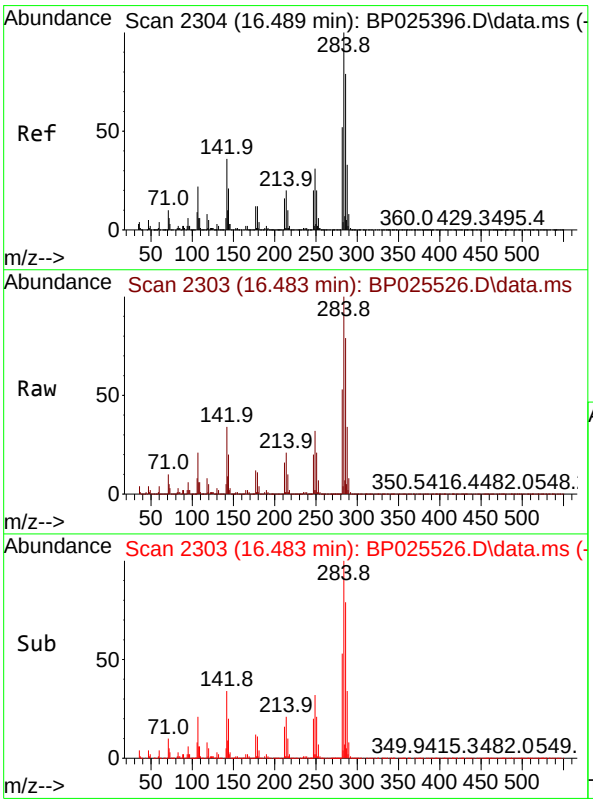
#67
4-Bromophenyl-phenylether
Concen: 40.652 ng
RT: 16.366 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:248 Resp: 388602

Ion	Ratio	Lower	Upper
248	100		
250	97.6	78.2	117.2
141	76.8	59.6	89.4

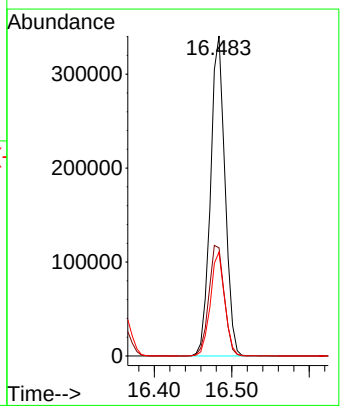


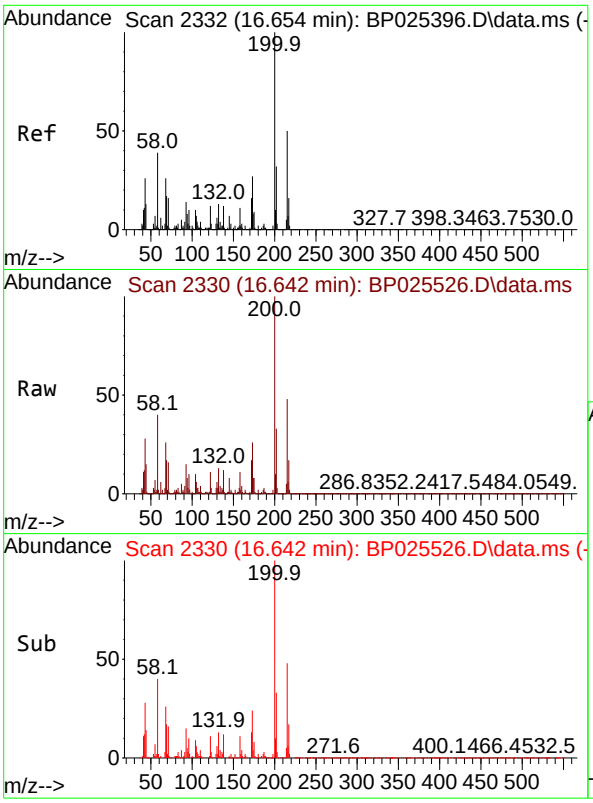


#68
Hexachlorobenzene
Concen: 39.912 ng
RT: 16.483 min Scan# 2303
Delta R.T. -0.006 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Tgt Ion:284 Resp: 442271

Ion	Ratio	Lower	Upper
284	100		
142	33.8	29.1	43.7
249	32.4	25.0	37.4



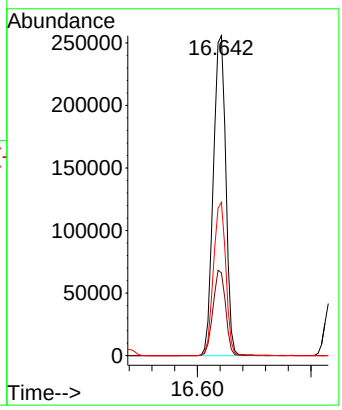


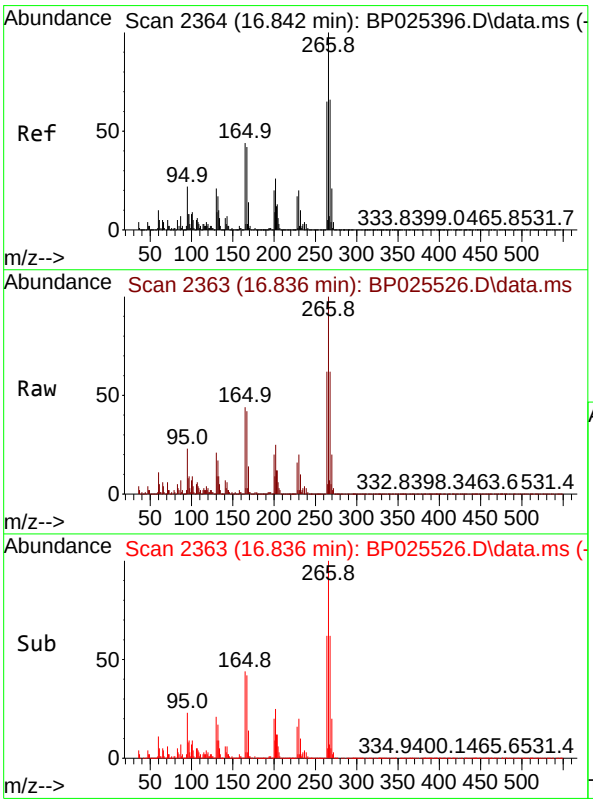
#69
Atrazine
Concen: 39.190 ng
RT: 16.642 min Scan# 2
Delta R.T. -0.012 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:200 Resp: 388998

Ion	Ratio	Lower	Upper
200	100		
173	25.9	6.7	46.7
215	48.0	29.7	69.7

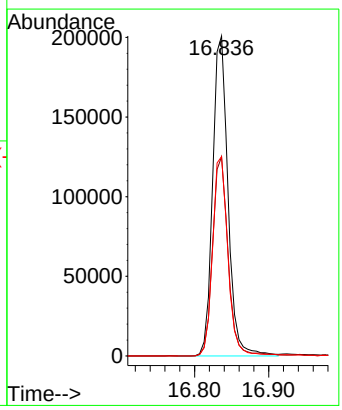


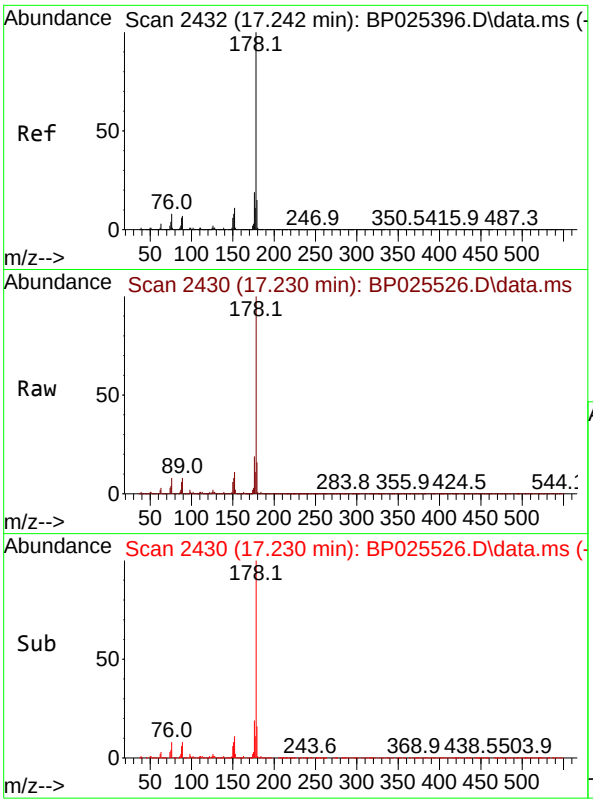


#70
Pentachlorophenol
Concen: 41.242 ng
RT: 16.836 min Scan# 2363
Delta R.T. -0.006 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Tgt Ion:266 Resp: 288486

Ion	Ratio	Lower	Upper
266	100		
268	62.2	52.6	79.0
264	62.3	52.0	78.0



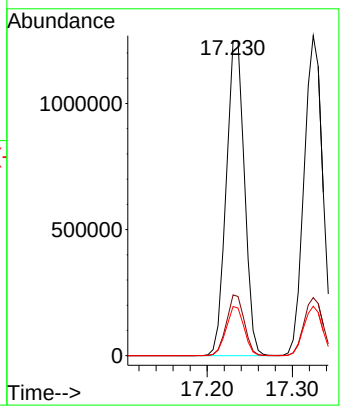


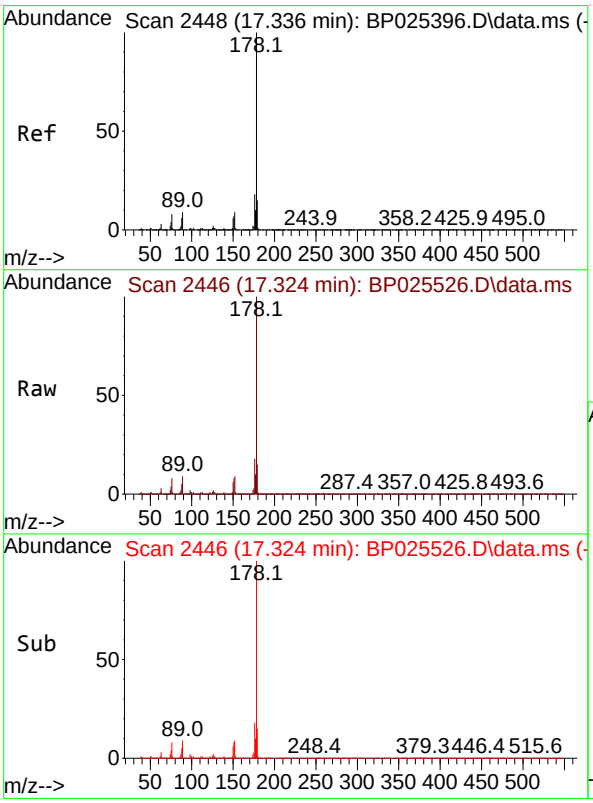
#71
Phenanthrene
Concen: 38.791 ng
RT: 17.230 min Scan# 24
Delta R.T. -0.012 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:178 Resp: 1852149

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.5	23.3
179	15.6	12.2	18.4

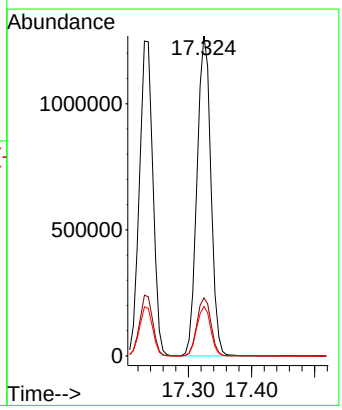


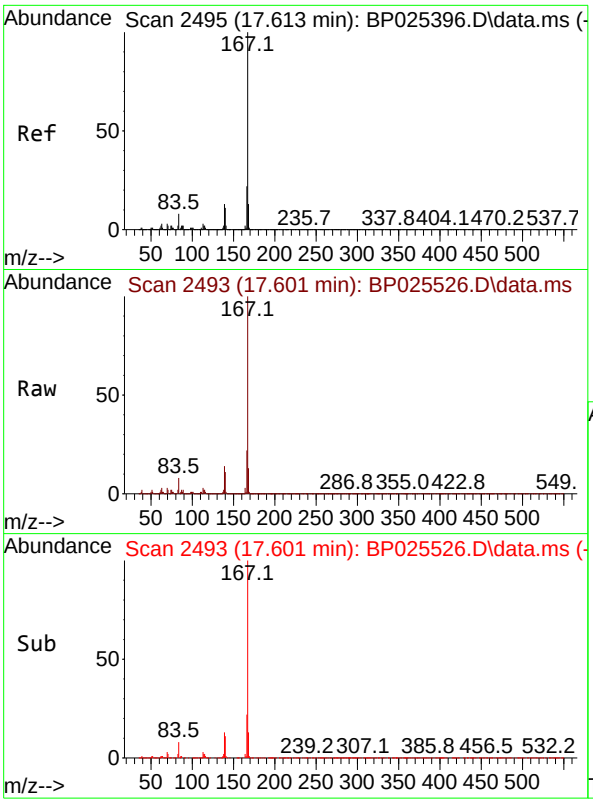


#72
Anthracene
Concen: 39.524 ng
RT: 17.324 min Scan# 2446
Delta R.T. -0.012 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Tgt Ion:178 Resp: 1927125

Ion	Ratio	Lower	Upper
178	100		
176	18.1	14.7	22.1
179	15.4	12.2	18.2



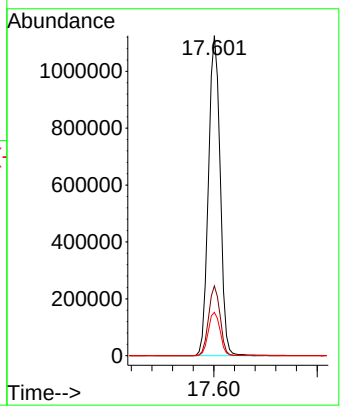


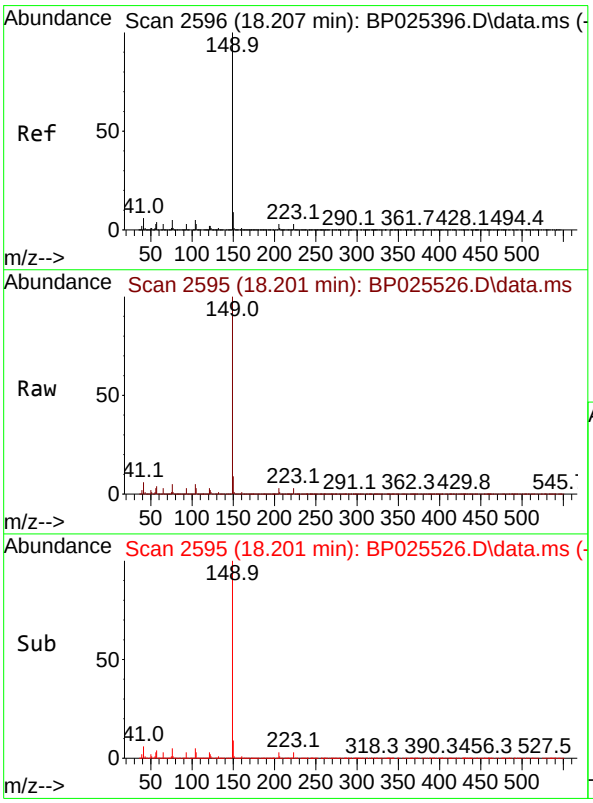
#73
Carbazole
Concen: 38.481 ng
RT: 17.601 min Scan# 24
Delta R.T. -0.012 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:167 Resp: 1767299

Ion	Ratio	Lower	Upper
167	100		
166	21.8	17.5	26.3
139	13.5	10.6	16.0

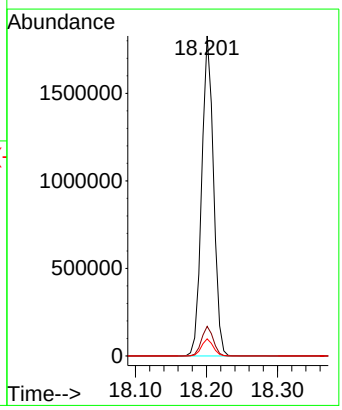


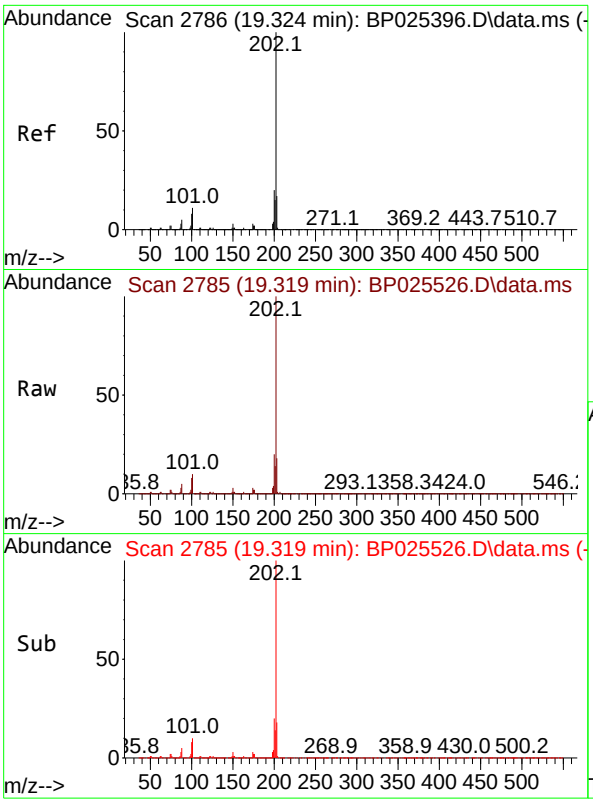


#74
Di-n-butylphthalate
Concen: 37.487 ng
RT: 18.201 min Scan# 2595
Delta R.T. -0.006 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Tgt Ion:149 Resp: 2118222

Ion	Ratio	Lower	Upper
149	100		
150	9.3	7.4	11.0
104	5.4	4.2	6.2



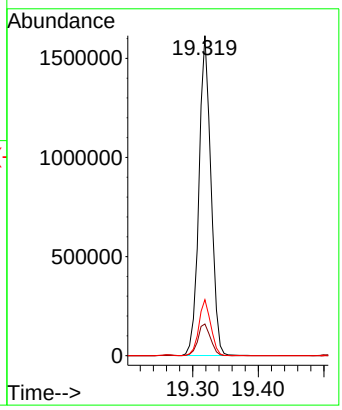


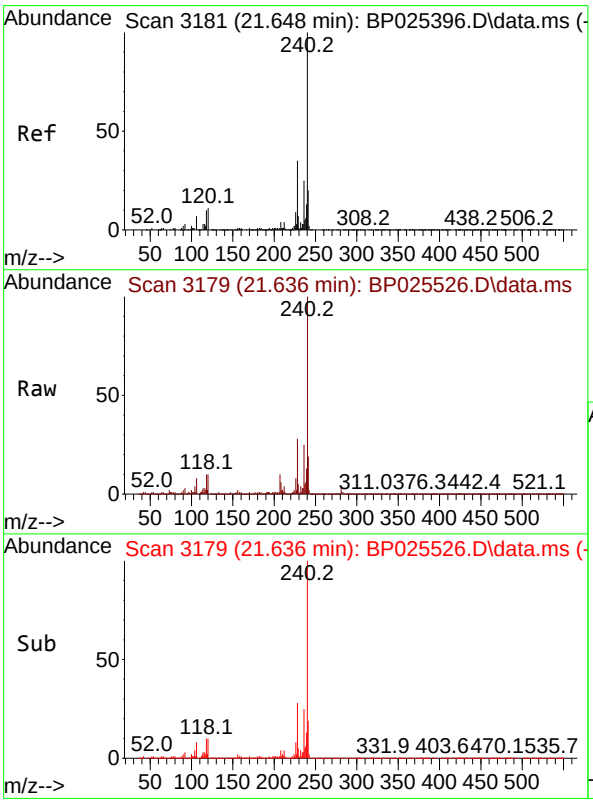
#75
Fluoranthene
Concen: 36.116 ng
RT: 19.319 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:202 Resp: 2056945

Ion	Ratio	Lower	Upper
202	100		
101	9.9	0.0	31.1
203	17.5	0.0	37.3

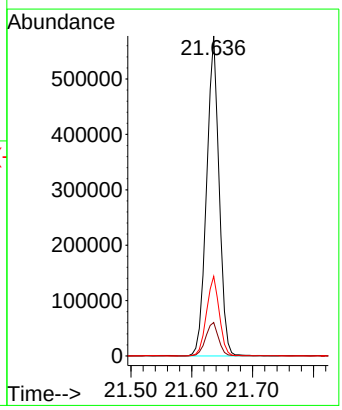


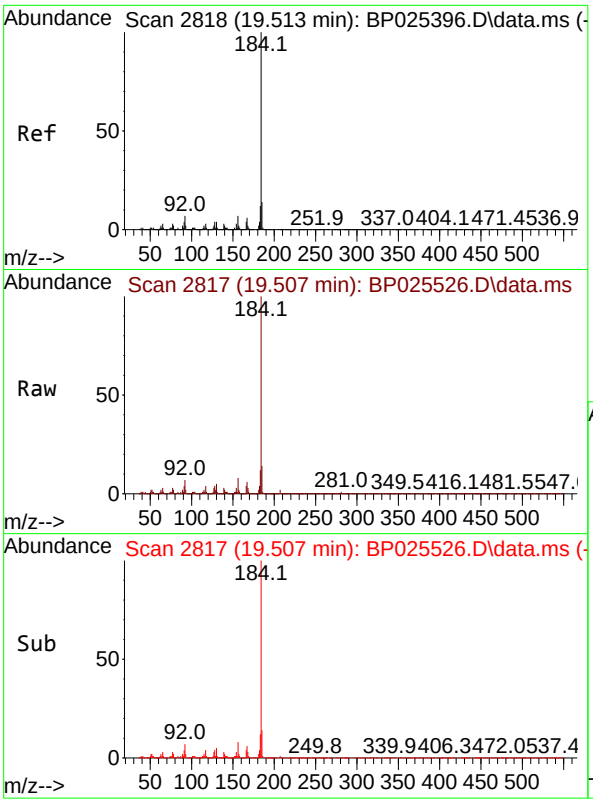


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.636 min Scan# 3179
Delta R.T. -0.012 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Tgt Ion:240 Resp: 823541

Ion	Ratio	Lower	Upper
240	100		
120	10.4	8.9	13.3
236	24.9	19.8	29.8



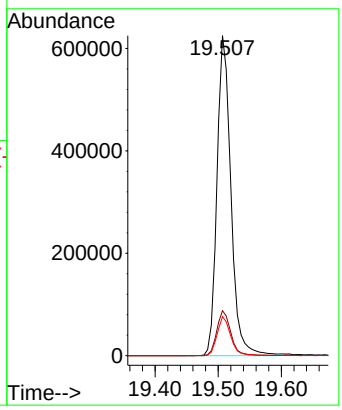


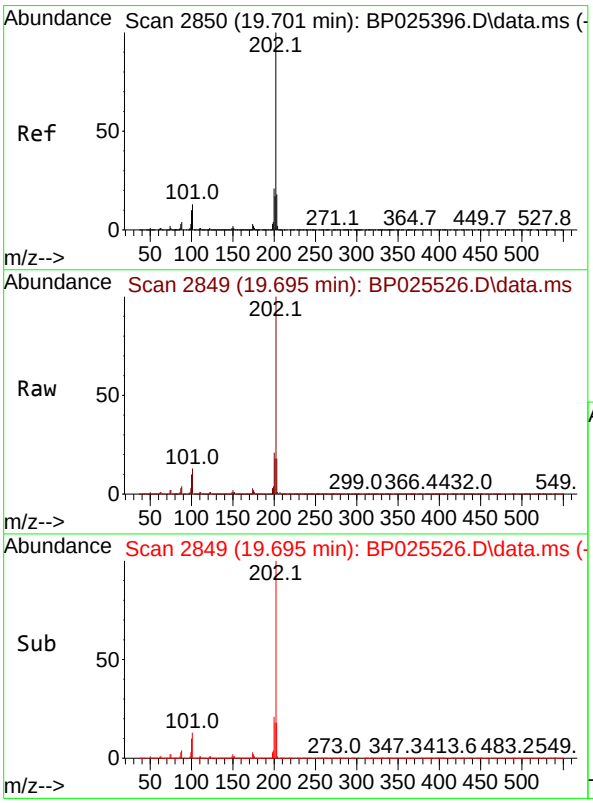
#77
Benzidine
Concen: 34.006 ng
RT: 19.507 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:184 Resp: 955775

Ion	Ratio	Lower	Upper
184	100		
185	14.1	11.5	17.3
183	12.2	9.4	14.2

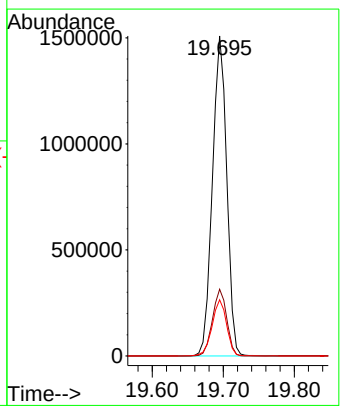


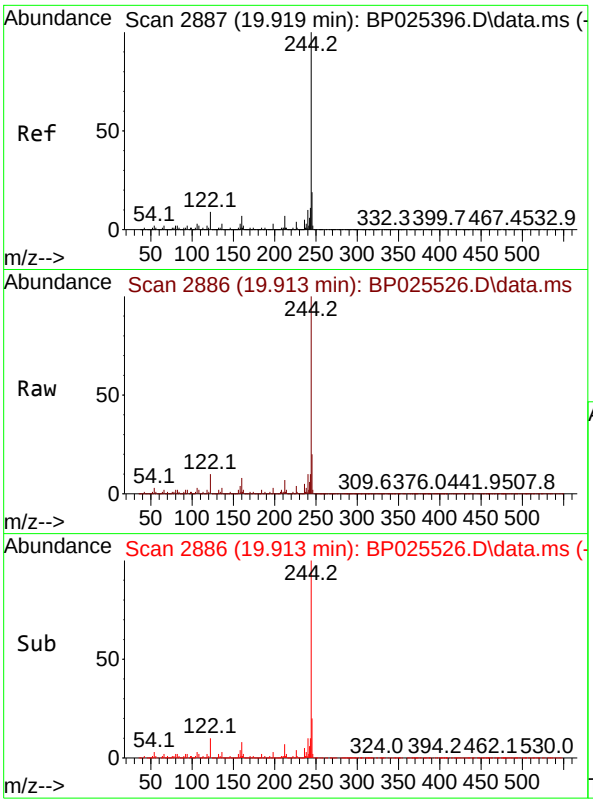


#78
Pyrene
Concen: 39.495 ng
RT: 19.695 min Scan# 2849
Delta R.T. -0.006 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Tgt Ion:202 Resp: 2114083

Ion	Ratio	Lower	Upper
202	100		
200	20.8	16.9	25.3
203	17.5	14.2	21.2



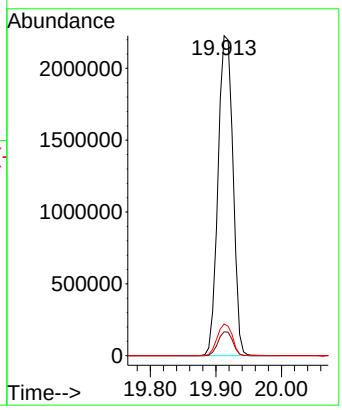


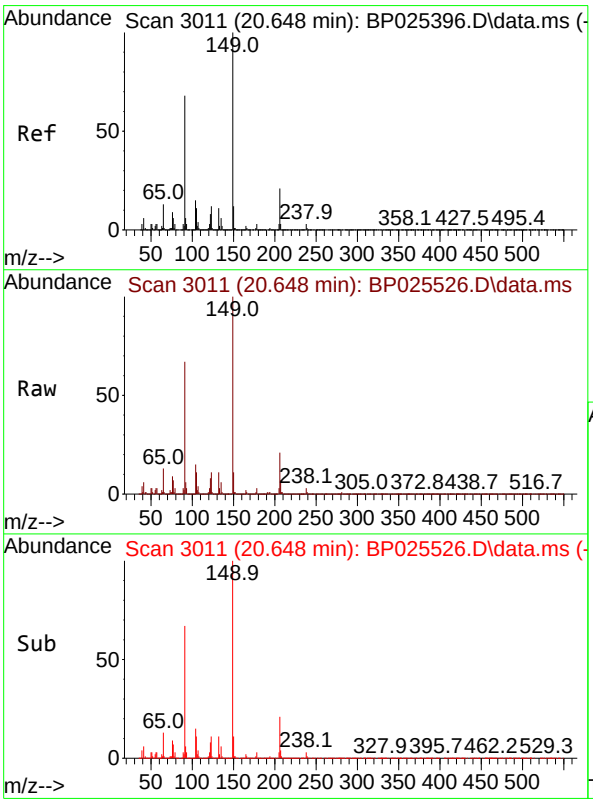
#79
Terphenyl-d14
Concen: 77.871 ng
RT: 19.913 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:244 Resp: 3505178

Ion	Ratio	Lower	Upper
244	100		
212	7.5	5.8	8.6
122	9.9	7.4	11.2

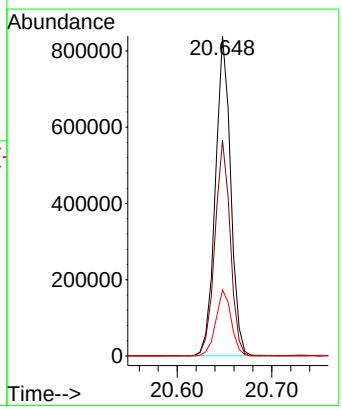


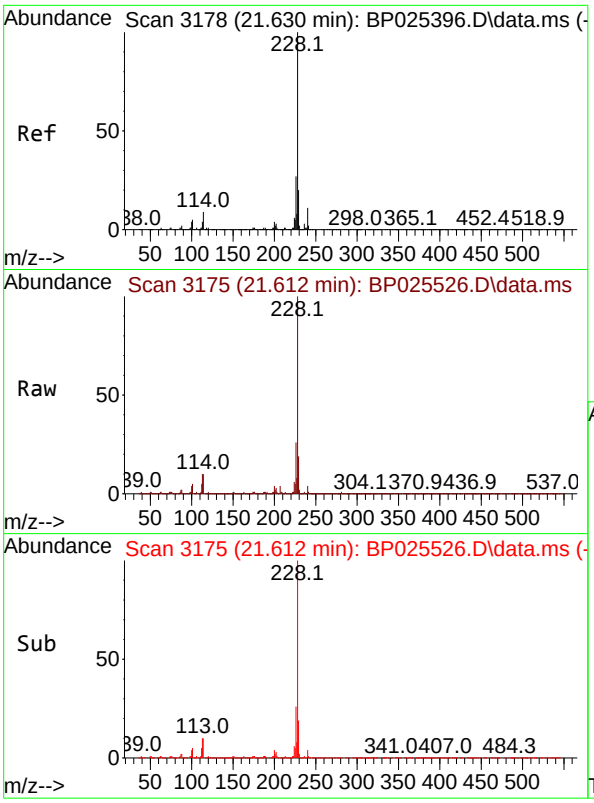


#80
Butylbenzylphthalate
Concen: 38.610 ng
RT: 20.648 min Scan# 3011
Delta R.T. -0.000 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Tgt Ion:149 Resp: 936663

Ion	Ratio	Lower	Upper
149	100		
91	67.3	54.2	81.2
206	20.7	16.6	24.8



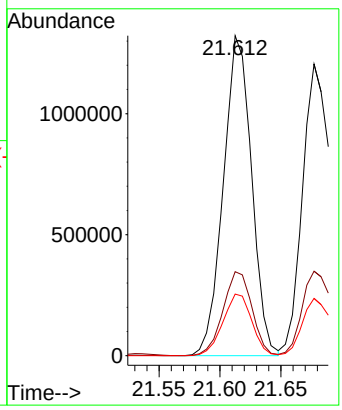


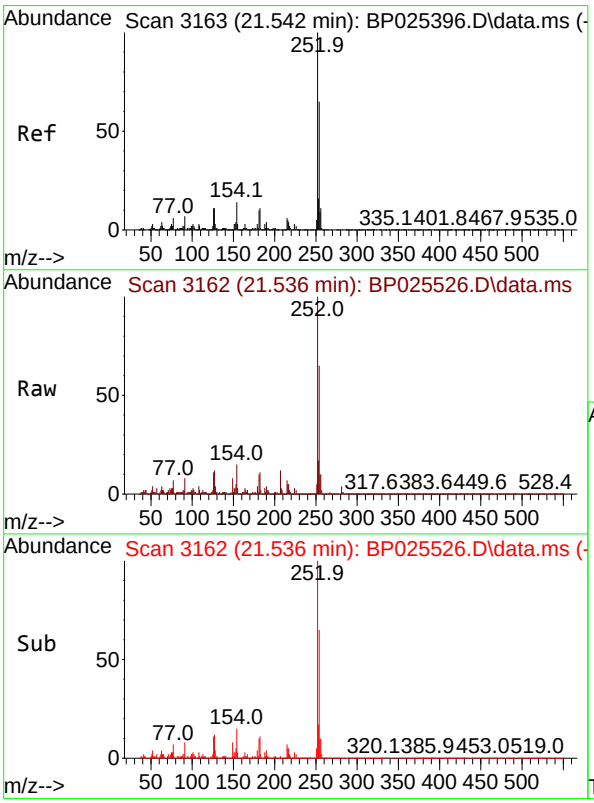
#81
Benzo(a)anthracene
Concen: 39.296 ng
RT: 21.612 min Scan# 31
Delta R.T. -0.018 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:228 Resp: 2134261

Ion	Ratio	Lower	Upper
228	100		
226	26.3	21.7	32.5
229	19.3	15.6	23.4

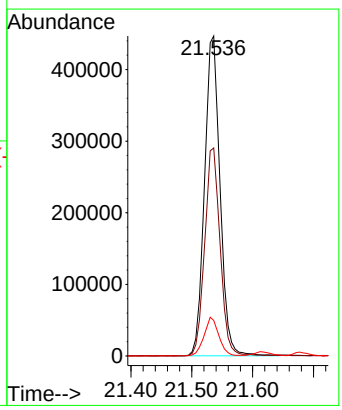


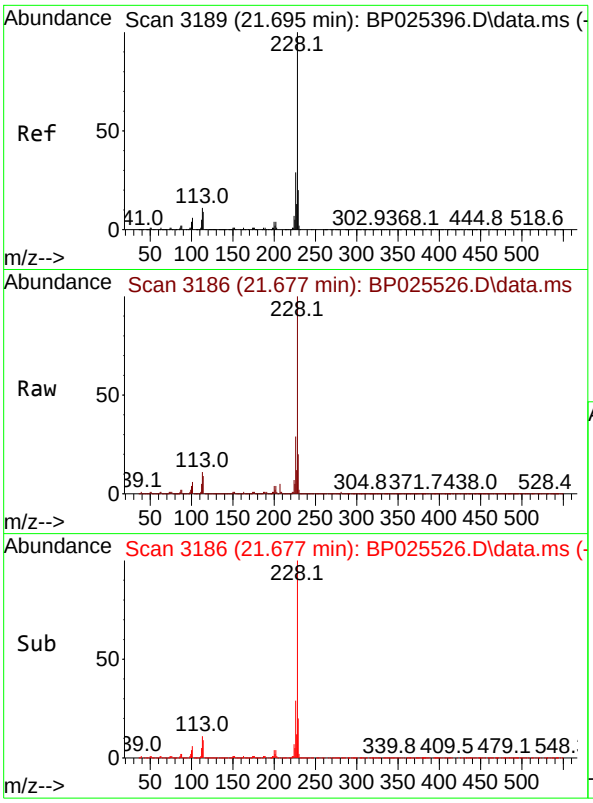


#82
3,3'-Dichlorobenzidine
Concen: 38.576 ng
RT: 21.536 min Scan# 3162
Delta R.T. -0.006 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Tgt Ion:252 Resp: 789715

Ion	Ratio	Lower	Upper
252	100		
254	65.0	51.8	77.6
126	11.1	9.1	13.7



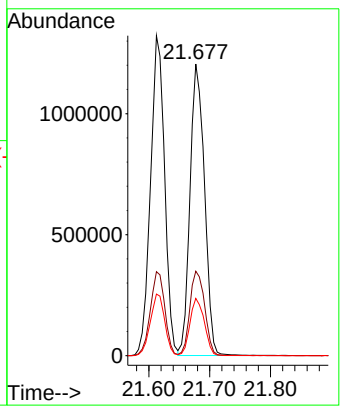


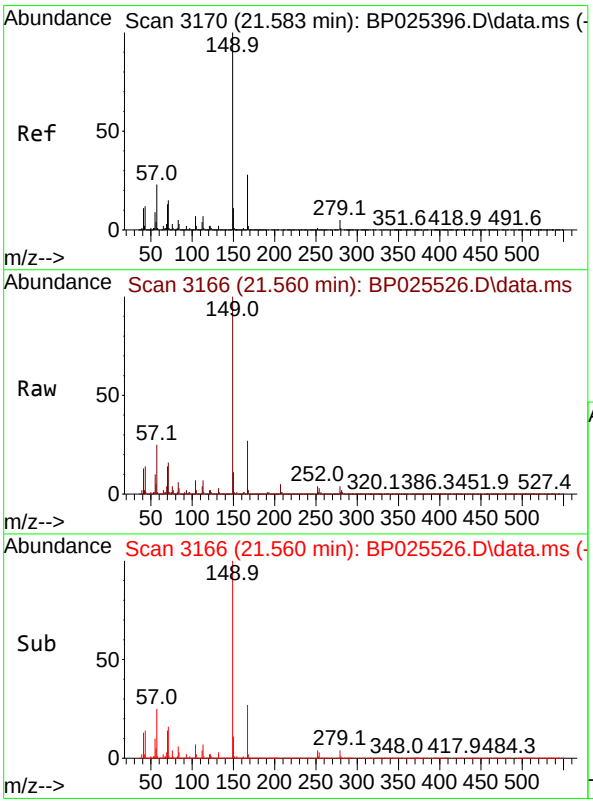
#83
Chrysene
Concen: 39.179 ng
RT: 21.677 min Scan# 3
Delta R.T. -0.018 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:228 Resp: 1992794

Ion	Ratio	Lower	Upper
228	100		
226	29.0	23.2	34.8
229	19.7	15.6	23.4

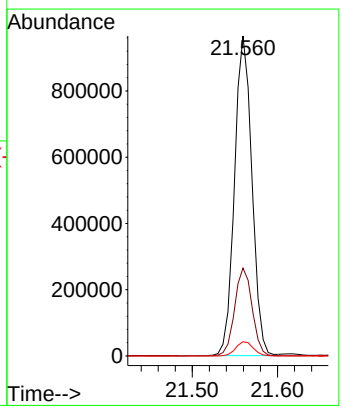


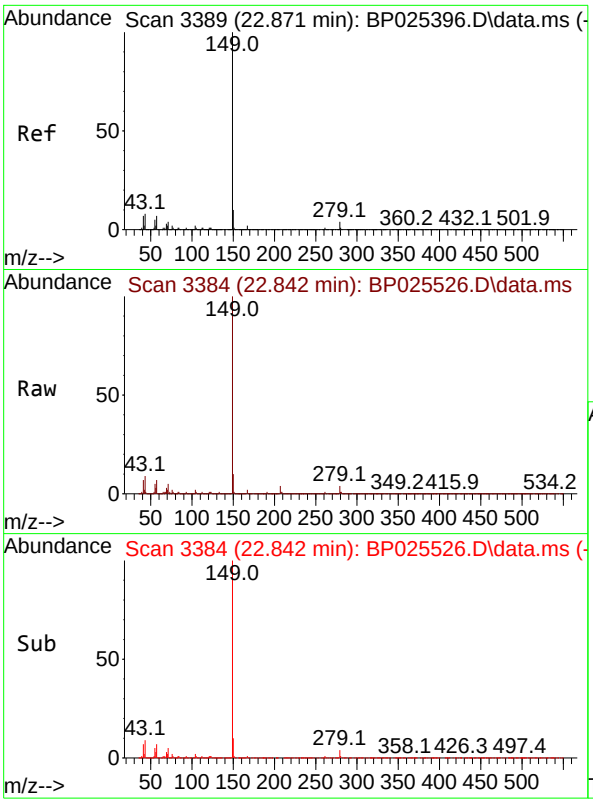


#84
Bis(2-ethylhexyl)phthalate
Concen: 38.334 ng
RT: 21.560 min Scan# 3166
Delta R.T. -0.024 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Tgt Ion:149 Resp: 1368948

Ion	Ratio	Lower	Upper
149	100		
167	27.4	22.1	33.1
279	4.5	3.8	5.6



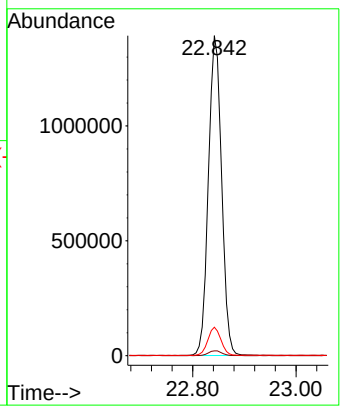


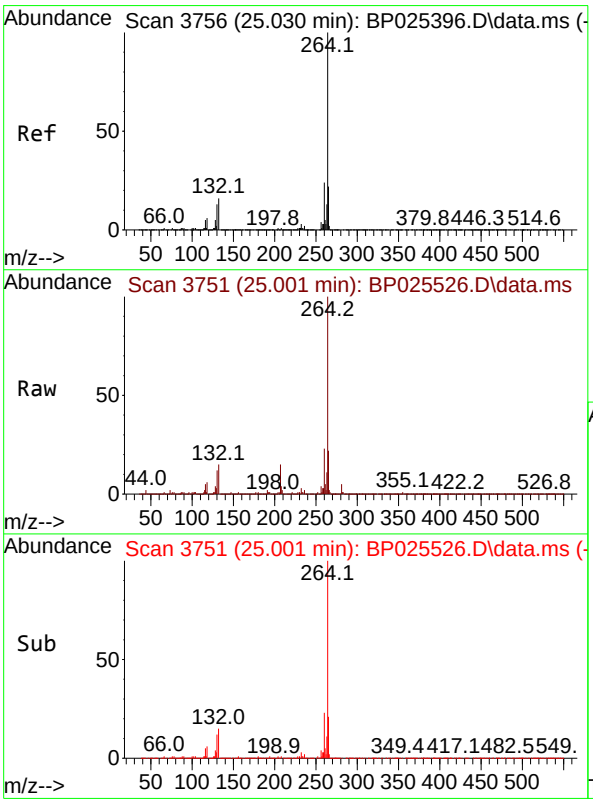
#85
Di-n-octyl phthalate
Concen: 40.160 ng
RT: 22.842 min Scan# 3
Delta R.T. -0.029 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:149 Resp: 2466831

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	8.7	6.3	9.5

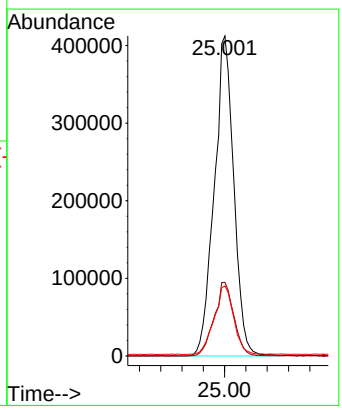


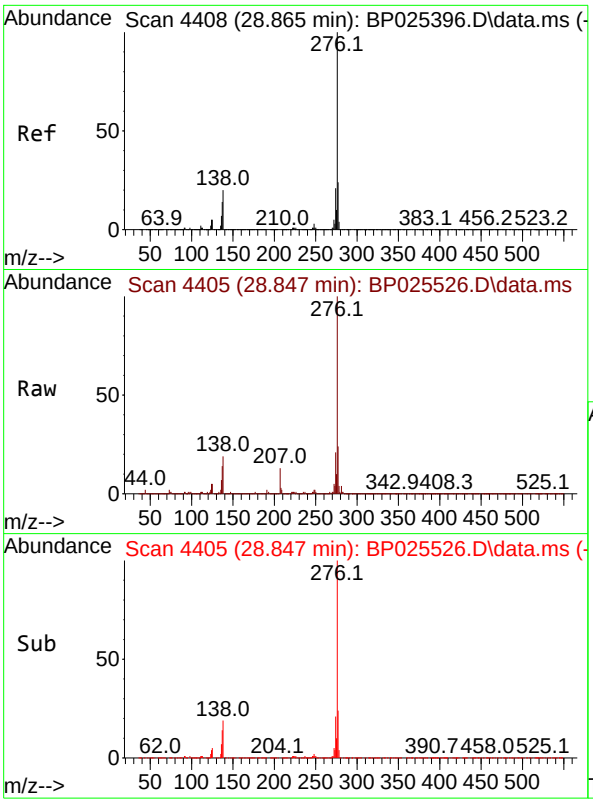


#86
Perylene-d12
Concen: 20.000 ng
RT: 25.001 min Scan# 3751
Delta R.T. -0.029 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Tgt Ion:264 Resp: 1048104

Ion	Ratio	Lower	Upper
264	100		
260	23.0	19.3	28.9
265	21.9	17.4	26.0



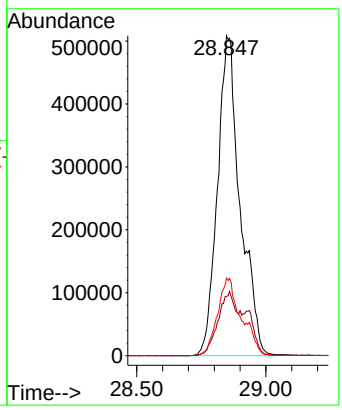


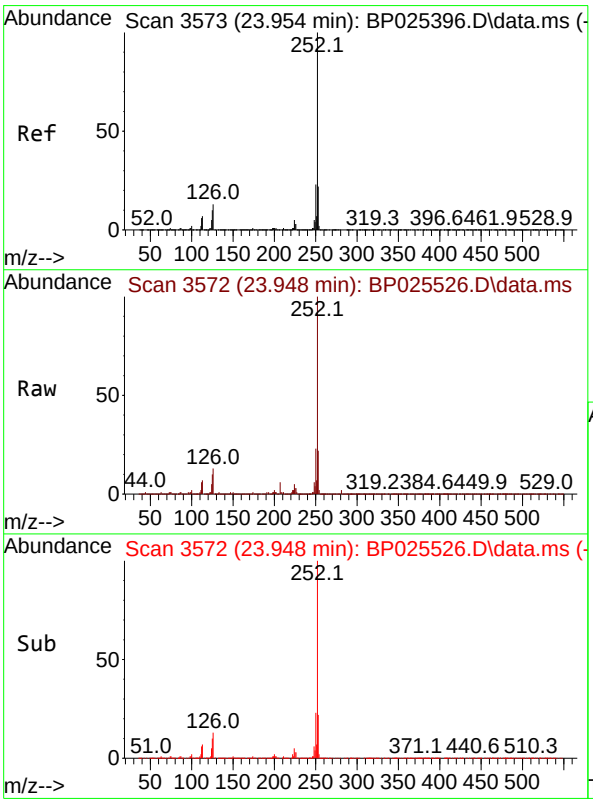
#87
Indeno(1,2,3-cd)pyrene
Concen: 40.446 ng
RT: 28.847 min Scan# 4
Delta R.T. -0.018 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:276 Resp: 3108816

Ion	Ratio	Lower	Upper
276	100		
138	17.4	12.9	19.3
277	21.5	17.0	25.6

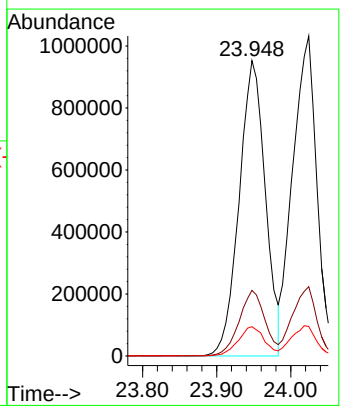


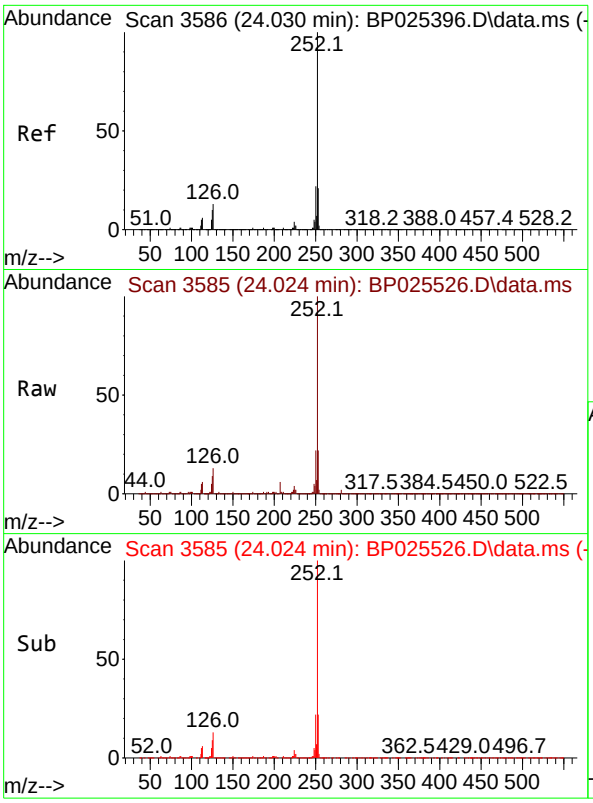


#88
Benzo(b)fluoranthene
Concen: 37.901 ng
RT: 23.948 min Scan# 3572
Delta R.T. -0.006 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Tgt Ion:252 Resp: 2342446

Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.7	26.5
125	9.9	7.9	11.9



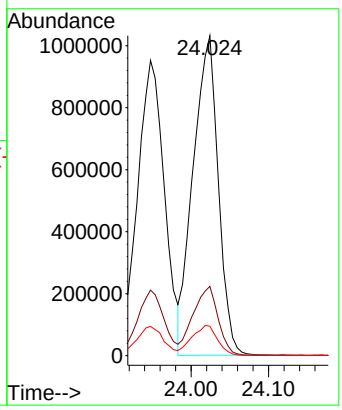


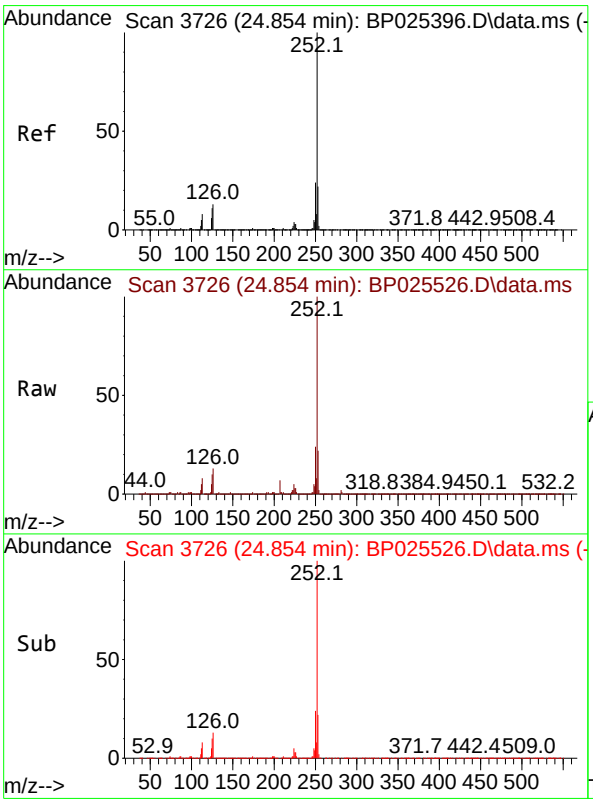
#89
Benzo(k)fluoranthene
Concen: 37.602 ng
RT: 24.024 min Scan# 3
Delta R.T. -0.006 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:252 Resp: 2325553

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.1	25.7
125	9.2	7.8	11.6

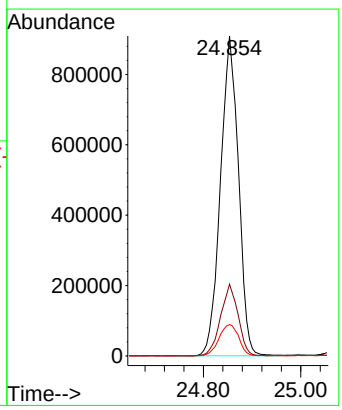


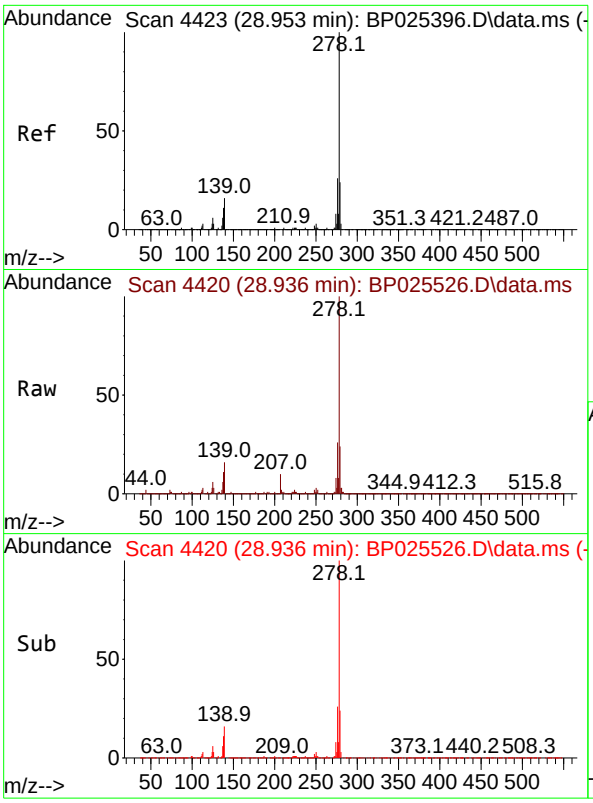


#90
Benzo(a)pyrene
Concen: 38.843 ng
RT: 24.854 min Scan# 3726
Delta R.T. -0.000 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Tgt Ion:252 Resp: 2336844

Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.5	26.3
125	9.8	8.7	13.1



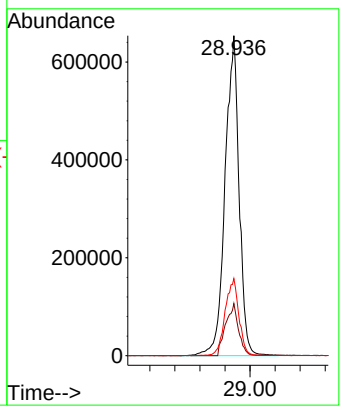


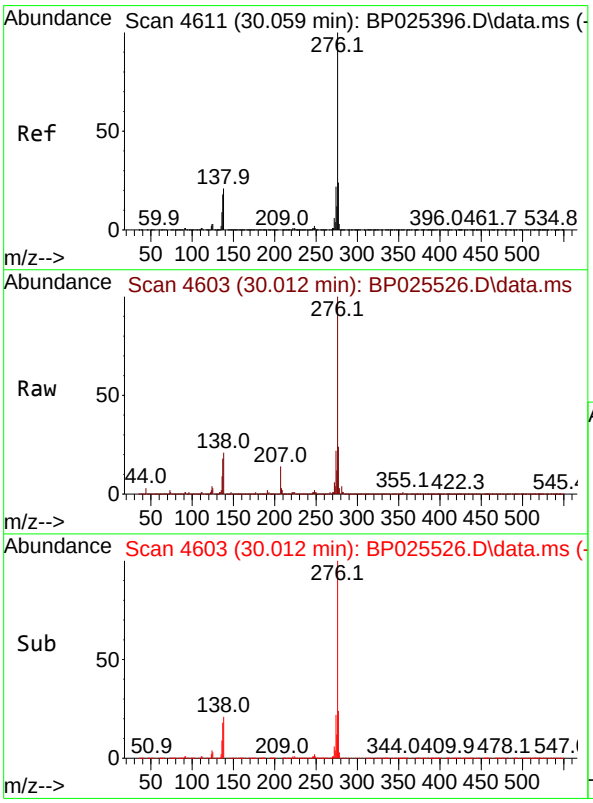
#91
Dibenzo(a,h)anthracene
Concen: 40.400 ng
RT: 28.936 min Scan# 4
Delta R.T. -0.018 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:278 Resp: 2537691

Ion	Ratio	Lower	Upper
278	100		
139	16.3	13.0	19.4
279	24.1	19.4	29.2

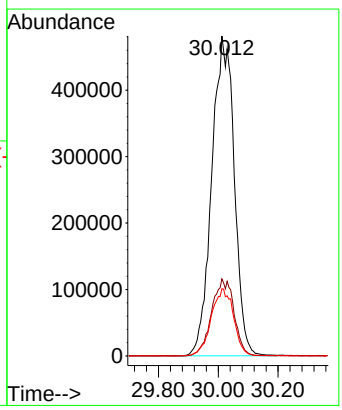




#92
Benzo(g,h,i)perylene
Concen: 40.739 ng
RT: 30.012 min Scan# 4603
Delta R.T. -0.047 min
Lab File: BP025526.D
Acq: 21 Aug 2025 03:59

Tgt Ion:276 Resp: 2515443

Ion	Ratio	Lower	Upper
276	100		
277	24.1	19.4	29.0
138	21.0	16.7	25.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025526.D
Acq On : 21 Aug 2025 03:59
Operator : CG/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: Aug 21 05:11:42 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 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	122	-0.01
2		1,4-Dioxane	0.472	0.469	0.6	128	0.00
3		Pyridine	1.291	1.257	2.6	125	0.00
4		n-Nitrosodimethylamine	0.532	0.585	-10.0	139	0.00
5	S	2-Fluorophenol	1.204	1.216	-1.0	127	0.00
6		Aniline	2.080	2.061	0.9	124	0.00
7	S	Phenol-d6	1.544	1.547	-0.2	124	0.00
8		2-Chlorophenol	1.359	1.350	0.7	125	0.00
9		Benzaldehyde	1.082	1.290	-19.2	115	0.00
10	C	Phenol	1.620	1.613	0.4	125	0.00
11		bis(2-Chloroethyl)ether	1.263	1.261	0.2	126	0.00
12		1,3-Dichlorobenzene	1.499	1.485	0.9	125	0.00
13	C	1,4-Dichlorobenzene	1.532	1.500	2.1	124	-0.01
14		1,2-Dichlorobenzene	1.483	1.433	3.4	122	0.00
15		Benzyl Alcohol	1.227	1.227	0.0	125	0.00
16		2,2'-oxybis(1-Chloropropane	1.692	1.733	-2.4	130	0.00
17		2-Methylphenol	1.125	1.122	0.3	123	0.00
18		Hexachloroethane	0.563	0.559	0.7	125	0.00
19	P	n-Nitroso-di-n-propylamine	1.023	0.976	4.6	120	0.00
20		3+4-Methylphenols	1.560	1.505	3.5	120	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	117	0.00
22		Acetophenone	0.502	0.499	0.6	121	0.00
23	S	Nitrobenzene-d5	0.395	0.409	-3.5	125	0.00
24		Nitrobenzene	0.353	0.366	-3.7	125	0.00
25		Isophorone	0.700	0.680	2.9	118	0.00
26	C	2-Nitrophenol	0.181	0.186	-2.8	121	0.00
27		2,4-Dimethylphenol	0.312	0.314	-0.6	119	0.00
28		bis(2-Chloroethoxy)methane	0.423	0.410	3.1	118	-0.01
29	C	2,4-Dichlorophenol	0.310	0.310	0.0	119	0.00
30		1,2,4-Trichlorobenzene	0.340	0.332	2.4	119	0.00
31		Naphthalene	1.040	1.009	3.0	118	-0.01
32		Benzoic acid	0.230	0.231	-0.4	119	0.01
33		4-Chloroaniline	0.459	0.448	2.4	116	0.00
34	C	Hexachlorobutadiene	0.211	0.207	1.9	118	-0.01
35		Caprolactam	0.114	0.101	11.4	108	0.00
36	C	4-Chloro-3-methylphenol	0.355	0.344	3.1	116	0.00
37		2-Methylnaphthalene	0.676	0.643	4.9	116	-0.01
38		1-Methylnaphthalene	0.719	0.671	6.7	115	-0.01
39	I	Acenaphthene-d10	1.000	1.000	0.0	109	-0.01
40		1,2,4,5-Tetrachlorobenzene	0.578	0.581	-0.5	113	-0.01
41	P	Hexachlorocyclopentadiene	0.349	0.363	-4.0	114	-0.01
42	S	2,4,6-Tribromophenol	0.269	0.252	6.3	104	-0.02
43	C	2,4,6-Trichlorophenol	0.390	0.402	-3.1	114	0.00
44		2,4,5-Trichlorophenol	0.427	0.434	-1.6	111	0.00
45	S	2-Fluorobiphenyl	1.463	1.441	1.5	113	-0.01
46		1,1'-Biphenyl	1.453	1.452	0.1	112	-0.01
47		2-Chloronaphthalene	1.131	1.136	-0.4	112	-0.01

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025526.D
Acq On : 21 Aug 2025 03:59
Operator : CG/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: Aug 21 05:11:42 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 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	0.329	0.351	-6.7	116	0.00
49		Acenaphthylene	1.871	1.854	0.9	112	-0.01
50		Dimethylphthalate	1.465	1.392	5.0	108	-0.01
51		2,6-Dinitrotoluene	0.309	0.311	-0.6	109	0.00
52	C	Acenaphthene	1.098	1.059	3.6	111	0.00
53		3-Nitroaniline	0.347	0.338	2.6	108	-0.01
54	P	2,4-Dinitrophenol	0.165	0.168	-1.8	112	0.00
55		Dibenzofuran	1.736	1.660	4.4	108	0.00
56	P	4-Nitrophenol	0.285	0.269	5.6	105	0.00
57		2,4-Dinitrotoluene	0.440	0.426	3.2	106	0.00
58		Fluorene	1.370	1.266	7.6	106	0.00
59		2,3,4,6-Tetrachlorophenol	0.377	0.370	1.9	110	0.00
60		Diethylphthalate	1.488	1.379	7.3	105	-0.01
61		4-Chlorophenyl-phenylether	0.681	0.626	8.1	105	0.00
62		4-Nitroaniline	0.356	0.320	10.1	99	0.00
63		Azobenzene	1.274	1.267	0.5	111	0.00
64	I	Phenanthrene-d10	1.000	1.000	0.0	98	-0.01
65		4,6-Dinitro-2-methylphenol	0.125	0.131	-4.8	105	-0.01
66	c	n-Nitrosodiphenylamine	0.610	0.638	-4.6	106	-0.01
67		4-Bromophenyl-phenylether	0.220	0.224	-1.8	103	0.00
68		Hexachlorobenzene	0.255	0.254	0.4	103	0.00
69		Atrazine	0.228	0.224	1.8	101	-0.01
70	C	Pentachlorophenol	0.161	0.166	-3.1	104	0.00
71		Phenanthrene	1.099	1.065	3.1	101	-0.01
72		Anthracene	1.122	1.109	1.2	101	-0.01
73		Carbazole	1.057	1.017	3.8	99	-0.01
74		Di-n-butylphthalate	1.300	1.219	6.2	96	0.00
75	C	Fluoranthene	1.311	1.183	9.8	95	0.00
76	I	Chrysene-d12	1.000	1.000	0.0	92	-0.01
77		Benzidine	0.683	0.580	15.1	55	0.00
78		Pyrene	1.300	1.284	1.2	92	0.00
79	S	Terphenyl-d14	1.093	1.064	2.7	93	0.00
80		Butylbenzylphthalate	0.589	0.569	3.4	90	0.00
81		Benzo(a)anthracene	1.319	1.296	1.7	94	-0.02
82		3,3'-Dichlorobenzidine	0.497	0.479	3.6	90	0.00
83		Chrysene	1.235	1.210	2.0	94	-0.02
84		Bis(2-ethylhexyl)phthalate	0.867	0.831	4.2	92	-0.02
85	c	Di-n-octyl phthalate	1.492	1.498	-0.4	95	-0.03
86	I	Perylene-d12	1.000	1.000	0.0	103	-0.03
87		Indeno(1,2,3-cd)pyrene	1.467	1.483	-1.1	108	-0.02
88		Benzo(b)fluoranthene	1.179	1.117	5.3	101	0.00
89		Benzo(k)fluoranthene	1.180	1.109	6.0	101	0.00
90	C	Benzo(a)pyrene	1.148	1.115	2.9	103	0.00
91		Dibenzo(a,h)anthracene	1.199	1.211	-1.0	107	-0.02
92		Benzo(g,h,i)perylene	1.178	1.200	-1.9	108	-0.05

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025526.D
Acq On : 21 Aug 2025 03:59
Operator : CG/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: Aug 21 05:11:42 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration

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

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025526.D
Acq On : 21 Aug 2025 03:59
Operator : CG/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: Aug 21 05:11:42 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 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	122	-0.01
2		1,4-Dioxane	40.000	39.729	0.7	128	0.00
3		Pyridine	40.000	38.955	2.6	125	0.00
4		n-Nitrosodimethylamine	40.000	43.959	-9.9	139	0.00
5	S	2-Fluorophenol	80.000	80.749	-0.9	127	0.00
6		Aniline	40.000	39.629	0.9	124	0.00
7	S	Phenol-d6	80.000	80.152	-0.2	124	0.00
8		2-Chlorophenol	40.000	39.746	0.6	125	0.00
9		Benzaldehyde	40.000	47.711	-19.3	115	0.00
10	C	Phenol	40.000	39.828	0.4	125	0.00
11		bis(2-Chloroethyl)ether	40.000	39.942	0.1	126	0.00
12		1,3-Dichlorobenzene	40.000	39.651	0.9	125	0.00
13	C	1,4-Dichlorobenzene	40.000	39.168	2.1	124	-0.01
14		1,2-Dichlorobenzene	40.000	38.659	3.4	122	0.00
15		Benzyl Alcohol	40.000	40.000	0.0	125	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	40.975	-2.4	130	0.00
17		2-Methylphenol	40.000	39.881	0.3	123	0.00
18		Hexachloroethane	40.000	39.729	0.7	125	0.00
19	P	n-Nitroso-di-n-propylamine	40.000	38.186	4.5	120	0.00
20		3+4-Methylphenols	40.000	38.594	3.5	120	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	117	0.00
22		Acetophenone	40.000	39.831	0.4	121	0.00
23	S	Nitrobenzene-d5	80.000	82.765	-3.5	125	0.00
24		Nitrobenzene	40.000	41.406	-3.5	125	0.00
25		Isophorone	40.000	38.851	2.9	118	0.00
26	C	2-Nitrophenol	40.000	41.086	-2.7	121	0.00
27		2,4-Dimethylphenol	40.000	40.225	-0.6	119	0.00
28		bis(2-Chloroethoxy)methane	40.000	38.812	3.0	118	-0.01
29	C	2,4-Dichlorophenol	40.000	40.055	-0.1	119	0.00
30		1,2,4-Trichlorobenzene	40.000	39.125	2.2	119	0.00
31		Naphthalene	40.000	38.828	2.9	118	-0.01
32		Benzoic acid	40.000	40.049	-0.1	119	0.01
33		4-Chloroaniline	40.000	38.991	2.5	116	0.00
34	C	Hexachlorobutadiene	40.000	39.065	2.3	118	-0.01
35		Caprolactam	40.000	35.484	11.3	108	0.00
36	C	4-Chloro-3-methylphenol	40.000	38.676	3.3	116	0.00
37		2-Methylnaphthalene	40.000	37.995	5.0	116	-0.01
38		1-Methylnaphthalene	40.000	37.300	6.8	115	-0.01
39	I	Acenaphthene-d10	20.000	20.000	0.0	109	-0.01
40		1,2,4,5-Tetrachlorobenzene	40.000	40.240	-0.6	113	-0.01
41	P	Hexachlorocyclopentadiene	40.000	41.668	-4.2	114	-0.01
42	S	2,4,6-Tribromophenol	80.000	74.936	6.3	104	-0.02
43	C	2,4,6-Trichlorophenol	40.000	41.205	-3.0	114	0.00
44		2,4,5-Trichlorophenol	40.000	40.598	-1.5	111	0.00
45	S	2-Fluorobiphenyl	80.000	78.794	1.5	113	-0.01
46		1,1'-Biphenyl	40.000	39.995	0.0	112	-0.01
47		2-Chloronaphthalene	40.000	40.186	-0.5	112	-0.01

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025526.D
Acq On : 21 Aug 2025 03:59
Operator : CG/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: Aug 21 05:11:42 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 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	42.636	-6.6	116	0.00
49		Acenaphthylene	40.000	39.644	0.9	112	-0.01
50		Dimethylphthalate	40.000	38.020	4.9	108	-0.01
51		2,6-Dinitrotoluene	40.000	40.251	-0.6	109	0.00
52	C	Acenaphthene	40.000	38.553	3.6	111	0.00
53		3-Nitroaniline	40.000	38.977	2.6	108	-0.01
54	P	2,4-Dinitrophenol	40.000	40.644	-1.6	112	0.00
55		Dibenzofuran	40.000	38.235	4.4	108	0.00
56	P	4-Nitrophenol	40.000	37.635	5.9	105	0.00
57		2,4-Dinitrotoluene	40.000	38.698	3.3	106	0.00
58		Fluorene	40.000	36.973	7.6	106	0.00
59		2,3,4,6-Tetrachlorophenol	40.000	39.239	1.9	110	0.00
60		Diethylphthalate	40.000	37.056	7.4	105	-0.01
61		4-Chlorophenyl-phenylether	40.000	36.730	8.2	105	0.00
62		4-Nitroaniline	40.000	35.928	10.2	99	0.00
63		Azobenzene	40.000	39.764	0.6	111	0.00
64	I	Phenanthrene-d10	20.000	20.000	0.0	98	-0.01
65		4,6-Dinitro-2-methylphenol	40.000	42.016	-5.0	105	-0.01
66	c	n-Nitrosodiphenylamine	40.000	41.848	-4.6	106	-0.01
67		4-Bromophenyl-phenylether	40.000	40.652	-1.6	103	0.00
68		Hexachlorobenzene	40.000	39.912	0.2	103	0.00
69		Atrazine	40.000	39.190	2.0	101	-0.01
70	C	Pentachlorophenol	40.000	41.242	-3.1	104	0.00
71		Phenanthrene	40.000	38.791	3.0	101	-0.01
72		Anthracene	40.000	39.524	1.2	101	-0.01
73		Carbazole	40.000	38.481	3.8	99	-0.01
74		Di-n-butylphthalate	40.000	37.487	6.3	96	0.00
75	C	Fluoranthene	40.000	36.116	9.7	95	0.00
76	I	Chrysene-d12	20.000	20.000	0.0	92	-0.01
77		Benzidine	40.000	34.006	15.0	55	0.00
78		Pyrene	40.000	39.495	1.3	92	0.00
79	S	Terphenyl-d14	80.000	77.871	2.7	93	0.00
80		Butylbenzylphthalate	40.000	38.610	3.5	90	0.00
81		Benzo(a)anthracene	40.000	39.296	1.8	94	-0.02
82		3,3'-Dichlorobenzidine	40.000	38.576	3.6	90	0.00
83		Chrysene	40.000	39.179	2.1	94	-0.02
84		Bis(2-ethylhexyl)phthalate	40.000	38.334	4.2	92	-0.02
85	c	Di-n-octyl phthalate	40.000	40.160	-0.4	95	-0.03
86	I	Perylene-d12	20.000	20.000	0.0	103	-0.03
87		Indeno(1,2,3-cd)pyrene	40.000	40.446	-1.1	108	-0.02
88		Benzo(b)fluoranthene	40.000	37.901	5.2	101	0.00
89		Benzo(k)fluoranthene	40.000	37.602	6.0	101	0.00
90	C	Benzo(a)pyrene	40.000	38.843	2.9	103	0.00
91		Dibenzo(a,h)anthracene	40.000	40.400	-1.0	107	-0.02
92		Benzo(g,h,i)perylene	40.000	40.739	-1.8	108	-0.05

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025526.D
Acq On : 21 Aug 2025 03:59
Operator : CG/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: Aug 21 05:11:42 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration

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

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

(#) = Out of Range SPCC's out = 0 CCC's out = 0

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: FIRS02

Lab Code: ACE SDG No.: Q2819

Instrument ID: BNA_P Calibration Date/Time: 08/21/2025 06:42

Lab File ID: BP025528.D Init. Calib. Date(s): 08/14/2025 08/14/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 12:33 17:24

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.204	1.211		0.6	
Benzaldehyde	1.082	1.331		23.0	
Phenol-d6	1.544	1.588		2.8	
Phenol	1.620	1.664		2.7	20.0
bis(2-Chloroethyl)ether	1.263	1.271		0.6	
2-Chlorophenol	1.359	1.383		1.8	
2-Methylphenol	1.125	1.159		3.0	
2,2-oxybis(1-Chloropropane)	1.692	1.822		7.7	
Acetophenone	0.502	0.505		0.6	
3+4-Methylphenols	1.560	1.594		2.2	
n-Nitroso-di-n-propylamine	1.023	1.037	0.050	1.4	
Nitrobenzene-d5	0.395	0.404		2.3	
Hexachloroethane	0.563	0.574		2.0	
Nitrobenzene	0.353	0.365		3.4	
Isophorone	0.700	0.714		2.0	
2-Nitrophenol	0.181	0.186		2.8	20.0
2,4-Dimethylphenol	0.312	0.319		2.2	
bis(2-Chloroethoxy)methane	0.423	0.421		-0.5	
2,4-Dichlorophenol	0.310	0.312		0.6	20.0
Naphthalene	1.040	1.015		-2.4	
4-Chloroaniline	0.459	0.465		1.3	
Hexachlorobutadiene	0.211	0.208		-1.4	20.0
Caprolactam	0.114	0.116		1.8	
4-Chloro-3-methylphenol	0.355	0.366		3.1	20.0
2-Methylnaphthalene	0.676	0.671		-0.7	
Hexachlorocyclopentadiene	0.349	0.350	0.050	0.3	
2,4,6-Trichlorophenol	0.390	0.410		5.1	20.0
2-Fluorobiphenyl	1.463	1.383		-5.5	
2,4,5-Trichlorophenol	0.427	0.446		4.4	
1,1-Biphenyl	1.453	1.459		0.4	
2-Chloronaphthalene	1.131	1.124		-0.6	
2-Nitroaniline	0.329	0.374		13.7	
Dimethylphthalate	1.465	1.502		2.5	
Acenaphthylene	1.871	1.868		-0.2	
2,6-Dinitrotoluene	0.309	0.330		6.8	
3-Nitroaniline	0.347	0.367		5.8	
Acenaphthene	1.098	1.075		-2.1	20.0
2,4-Dinitrophenol	0.165	0.174	0.050	5.5	
4-Nitrophenol	0.285	0.307	0.050	7.7	

Form VII SV-1

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: Alliance Contract: FIRS02

Lab Code: ACE SDG No.: Q2819

Instrument ID: BNA_P Calibration Date/Time: 08/21/2025 06:42

Lab File ID: BP025528.D Init. Calib. Date(s): 08/14/2025 08/14/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 12:33 17:24

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.736	1.733		-0.2	
2,4-Dinitrotoluene	0.440	0.482		9.5	
Diethylphthalate	1.488	1.538		3.4	
4-Chlorophenyl-phenylether	0.681	0.648		-4.8	
Fluorene	1.370	1.312		-4.2	
4-Nitroaniline	0.356	0.363		2.0	
4,6-Dinitro-2-methylphenol	0.125	0.131		4.8	
n-Nitrosodiphenylamine	0.610	0.601		-1.5	20.0
2,4,6-Tribromophenol	0.269	0.274		1.9	
4-Bromophenyl-phenylether	0.220	0.217		-1.4	
Hexachlorobenzene	0.255	0.250		-2.0	
Atrazine	0.228	0.231		1.3	
Pentachlorophenol	0.161	0.169		5.0	20.0
Phenanthrene	1.099	1.074		-2.3	
Anthracene	1.122	1.087		-3.1	
Carbazole	1.057	1.024		-3.1	
Di-n-butylphthalate	1.300	1.302		0.2	
Fluoranthene	1.311	1.222		-6.8	20.0
Pyrene	1.300	1.517		16.7	
Terphenyl-d14	1.093	1.224		12.0	
Butylbenzylphthalate	0.589	0.681		15.6	
3,3-Dichlorobenzidine	0.497	0.463		-6.8	
Benzo(a)anthracene	1.319	1.317		-0.2	
Chrysene	1.235	1.220		-1.2	
Bis(2-ethylhexyl)phthalate	0.867	0.908		4.7	
Di-n-octyl phthalate	1.492	1.357		-9.0	20.0
Benzo(b)fluoranthene	1.179	1.178		-0.1	
Benzo(k)fluoranthene	1.180	1.160		-1.7	
Benzo(a)pyrene	1.148	1.150		0.2	20.0
Indeno(1,2,3-cd)pyrene	1.467	1.545		5.3	
Dibenzo(a,h)anthracene	1.199	1.264		5.4	
Benzo(g,h,i)perylene	1.178	1.268		7.6	
1,2,4,5-Tetrachlorobenzene	0.578	0.574		-0.7	
1,4-Dioxane	0.472	0.468		-0.8	20.0
2,3,4,6-Tetrachlorophenol	0.377	0.391		3.7	

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025528.D
Acq On : 21 Aug 2025 06:42
Operator : CG/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Quant Time: Aug 21 07:32:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.790	152	210336	20.000	ng		0.00
21) Naphthalene-d8	10.560	136	893021	20.000	ng		0.00
39) Acenaphthene-d10	14.401	164	582847	20.000	ng		0.00
64) Phenanthrene-d10	17.201	188	1185139	20.000	ng		0.00
76) Chrysene-d12	21.642	240	966898	20.000	ng		0.00
86) Perylene-d12	25.001	264	954709	20.000	ng		-0.03
System Monitoring Compounds							
5) 2-Fluorophenol	5.402	112	1018965	80.452	ng		0.00
7) Phenol-d6	6.966	99	1335936	82.271	ng		0.00
23) Nitrobenzene-d5	8.931	82	1443187	81.750	ng		0.00
42) 2,4,6-Tribromophenol	15.913	330	639783	81.551	ng		0.00
45) 2-Fluorobiphenyl	13.013	172	3224036	75.599	ng		0.00
79) Terphenyl-d14	19.924	244	4732498	89.549	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.331	88	197014	39.712	ng		98
3) Pyridine	3.725	79	535552	39.440	ng		94
4) n-Nitrosodimethylamine	3.631	42	248430	44.377	ng		94
6) Aniline	7.125	93	887762	40.577	ng		98
8) 2-Chlorophenol	7.360	128	581806	40.707	ng		98
9) Benzaldehyde	6.937	77	559981	49.222	ng		96
10) Phenol	6.996	94	699876	41.075	ng		97
11) bis(2-Chloroethyl)ether	7.213	93	534841	40.272	ng		98
12) 1,3-Dichlorobenzene	7.678	146	627773	39.834	ng		98
13) 1,4-Dichlorobenzene	7.819	146	637445	39.573	ng		99
14) 1,2-Dichlorobenzene	8.137	146	617713	39.615	ng		99
15) Benzyl Alcohol	8.025	79	543909	42.156	ng		97
16) 2,2'-oxybis(1-Chloropr...	8.302	45	766477	43.083	ng		97
17) 2-Methylphenol	8.225	107	487657	41.208	ng		98
18) Hexachloroethane	8.854	117	241449	40.767	ng		99
19) n-Nitroso-di-n-propyla...	8.584	70	436071	40.542	ng		96
20) 3+4-Methylphenols	8.549	107	670504	40.875	ng		94
22) Acetophenone	8.596	105	901234	40.242	ng	#	97
24) Nitrobenzene	8.972	77	652095	41.331	ng		98
25) Isophorone	9.496	82	1274526	40.795	ng		99
26) 2-Nitrophenol	9.672	139	332366	41.048	ng		98
27) 2,4-Dimethylphenol	9.737	122	569584	40.905	ng		99
28) bis(2-Chloroethoxy)met...	9.966	93	752214	39.830	ng		98
29) 2,4-Dichlorophenol	10.207	162	557739	40.321	ng		99
30) 1,2,4-Trichlorobenzene	10.419	180	579601	38.224	ng		99
31) Naphthalene	10.607	128	1813476	39.071	ng		99
32) Benzoic acid	9.896	122	439768	42.778	ng		97
33) 4-Chloroaniline	10.707	127	829890	40.477	ng		99
34) Hexachlorobutadiene	10.896	225	371034	39.290	ng		98
35) Caprolactam	11.507	113	207200	40.851	ng		98
36) 4-Chloro-3-methylphenol	11.837	107	654337	41.225	ng		98
37) 2-Methylnaphthalene	12.213	142	1199198	39.701	ng		99
38) 1-Methylnaphthalene	12.431	142	1254785	39.062	ng		99
40) 1,2,4,5-Tetrachloroben...	12.584	216	669588	39.778	ng		99
41) Hexachlorocyclopentadiene	12.566	237	407908	40.117	ng		98
43) 2,4,6-Trichlorophenol	12.825	196	478356	42.093	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025528.D
Acq On : 21 Aug 2025 06:42
Operator : CG/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Quant Time: Aug 21 07:32:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration

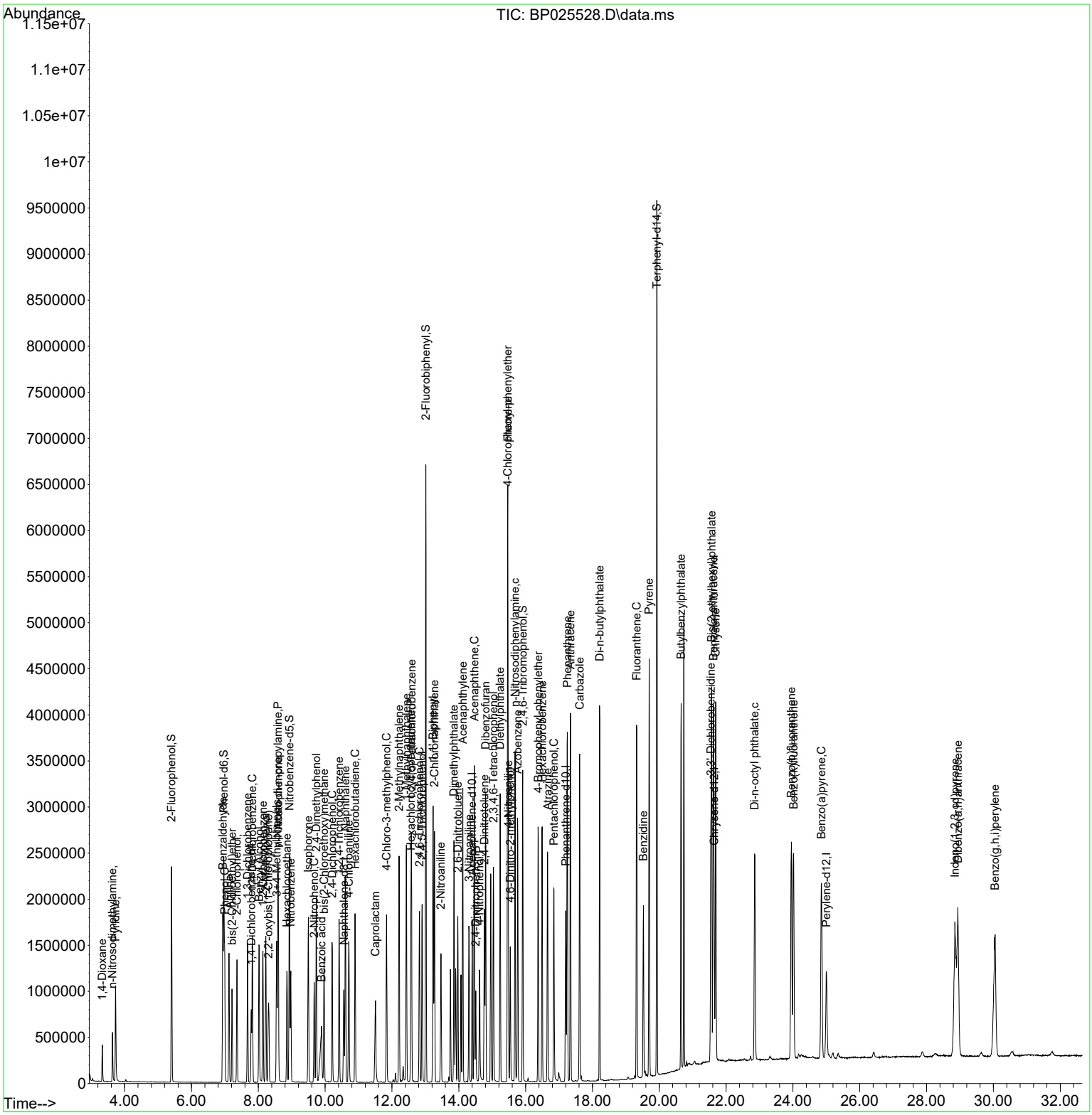
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.901	196	520387	41.781	ng	99
46) 1,1'-Biphenyl	13.231	154	1701266	40.191	ng	99
47) 2-Chloronaphthalene	13.272	162	1310696	39.774	ng	100
48) 2-Nitroaniline	13.466	65	435470	45.353	ng	97
49) Acenaphthylene	14.119	152	2178041	39.943	ng	99
50) Dimethylphthalate	13.854	163	1751072	41.027	ng	99
51) 2,6-Dinitrotoluene	13.972	165	384470	42.738	ng	94
52) Acenaphthene	14.466	154	1253527	39.164	ng	99
53) 3-Nitroaniline	14.301	138	428348	42.321	ng	95
54) 2,4-Dinitrophenol	14.507	184	202691	42.191	ng	97
55) Dibenzofuran	14.801	168	2020338	39.925	ng	98
56) 4-Nitrophenol	14.619	139	357906	43.033	ng	93
57) 2,4-Dinitrotoluene	14.766	165	561949	43.783	ng	97
58) Fluorene	15.466	166	1529223	38.298	ng	100
59) 2,3,4,6-Tetrachlorophenol	15.036	232	455330	41.403	ng	97
60) Diethylphthalate	15.236	149	1793007	41.343	ng	99
61) 4-Chlorophenyl-phenyle...	15.460	204	755243	38.031	ng	94
62) 4-Nitroaniline	15.483	138	422646	40.733	ng	92
63) Azobenzene	15.760	77	1581016	42.575	ng	96
65) 4,6-Dinitro-2-methylph...	15.542	198	311124	42.114	ng	96
66) n-Nitrosodiphenylamine	15.684	169	1424731	39.423	ng	99
67) 4-Bromophenyl-phenylether	16.378	248	514245	39.453	ng	97
68) Hexachlorobenzene	16.495	284	591430	39.143	ng	99
69) Atrazine	16.660	200	547846	40.478	ng	97
70) Pentachlorophenol	16.848	266	401483	42.093	ng	96
71) Phenanthrene	17.248	178	2545441	39.098	ng	99
72) Anthracene	17.342	178	2577328	38.766	ng	99
73) Carbazole	17.619	167	2426628	38.750	ng	99
74) Di-n-butylphthalate	18.213	149	3085121	40.043	ng	100
75) Fluoranthene	19.319	202	2895789	37.289	ng	98
77) Benzidine	19.524	184	1206527	36.563	ng	100
78) Pyrene	19.695	202	2933533	46.678	ng	100
80) Butylbenzylphthalate	20.654	149	1316128	46.209	ng	97
81) Benzo(a)anthracene	21.618	228	2546412	39.933	ng	99
82) 3,3'-Dichlorobenzidine	21.542	252	894776	37.227	ng	99
83) Chrysene	21.689	228	2359088	39.504	ng	99
84) Bis(2-ethylhexyl)phtha...	21.566	149	1755836	41.878	ng	100
85) Di-n-octyl phthalate	22.854	149	2625098	36.401	ng	98
87) Indeno(1,2,3-cd)pyrene	28.848	276	2950656	42.143	ng	99
88) Benzo(b)fluoranthene	23.954	252	2249885	39.965	ng	99
89) Benzo(k)fluoranthene	24.018	252	2214493	39.310	ng	99
90) Benzo(a)pyrene	24.854	252	2196644	40.085	ng	99
91) Dibenzo(a,h)anthracene	28.936	278	2413697	42.186	ng	100
92) Benzo(g,h,i)perylene	30.047	276	2420845	43.043	ng	100

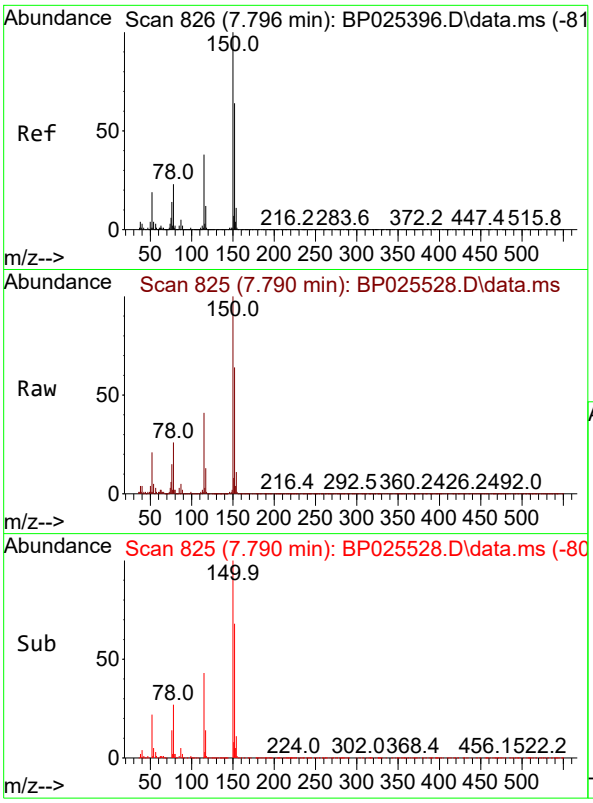
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025528.D
Acq On : 21 Aug 2025 06:42
Operator : CG/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Quant Time: Aug 21 07:32:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration



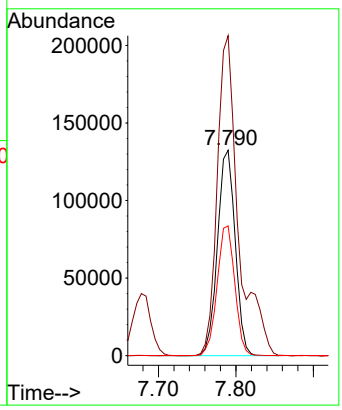


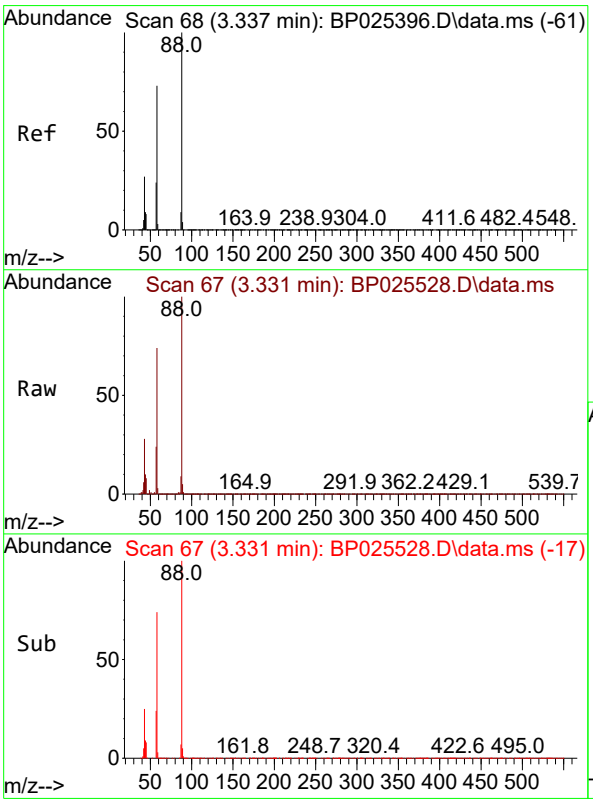
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.790 min Scan# 8
Delta R.T. -0.006 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:152 Resp: 210336

Ion	Ratio	Lower	Upper
152	100		
150	155.8	125.9	188.9
115	63.1	48.5	72.7

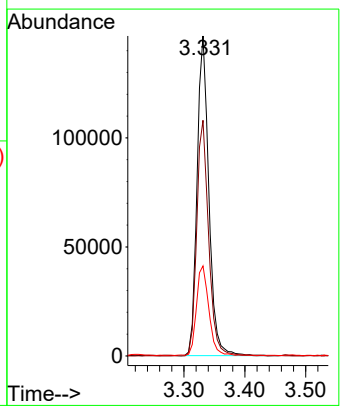


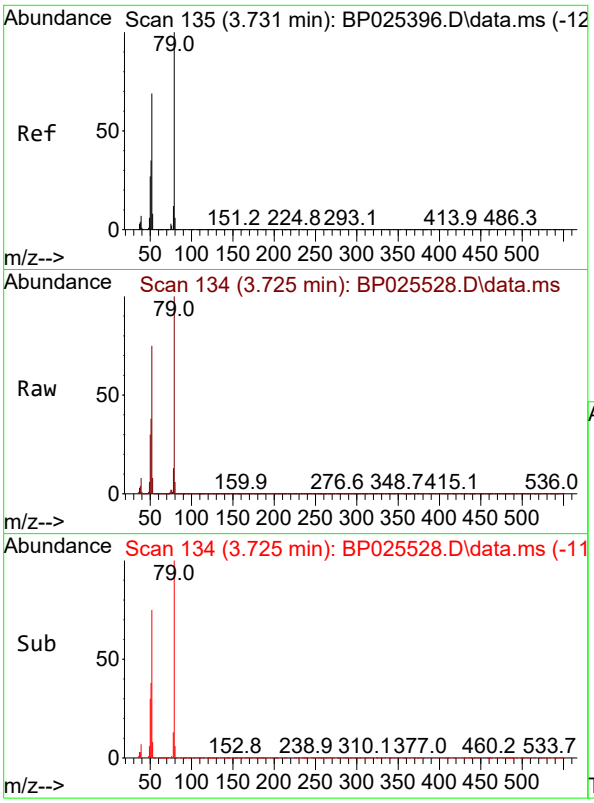


#2
1,4-Dioxane
Concen: 39.712 ng
RT: 3.331 min Scan# 67
Delta R.T. -0.006 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Tgt Ion: 88 Resp: 197014

Ion	Ratio	Lower	Upper
88	100		
58	74.6	59.2	88.8
43	29.6	21.7	32.5



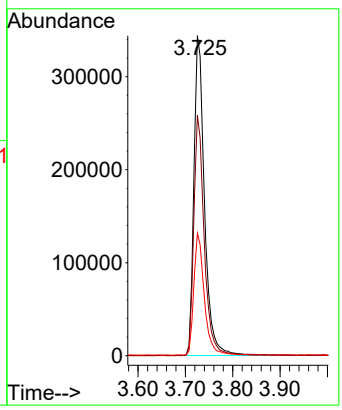


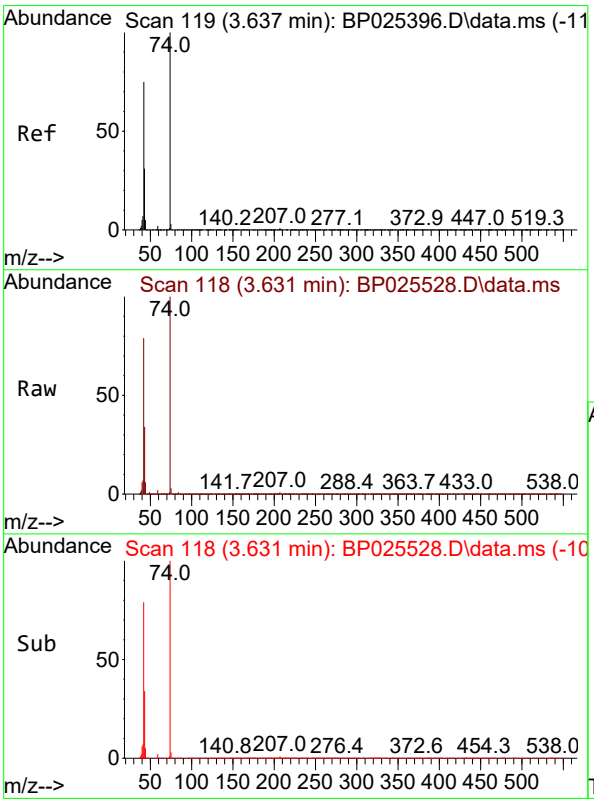
#3
Pyridine
Concen: 39.440 ng
RT: 3.725 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion: 79 Resp: 535552

Ion	Ratio	Lower	Upper
79	100		
52	75.2	55.5	83.3
51	38.2	28.3	42.5

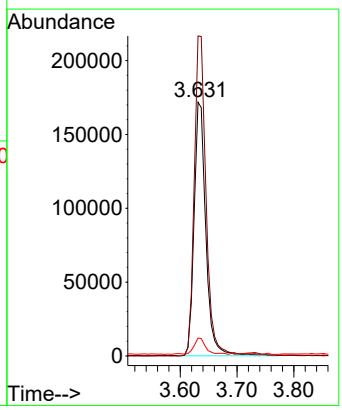


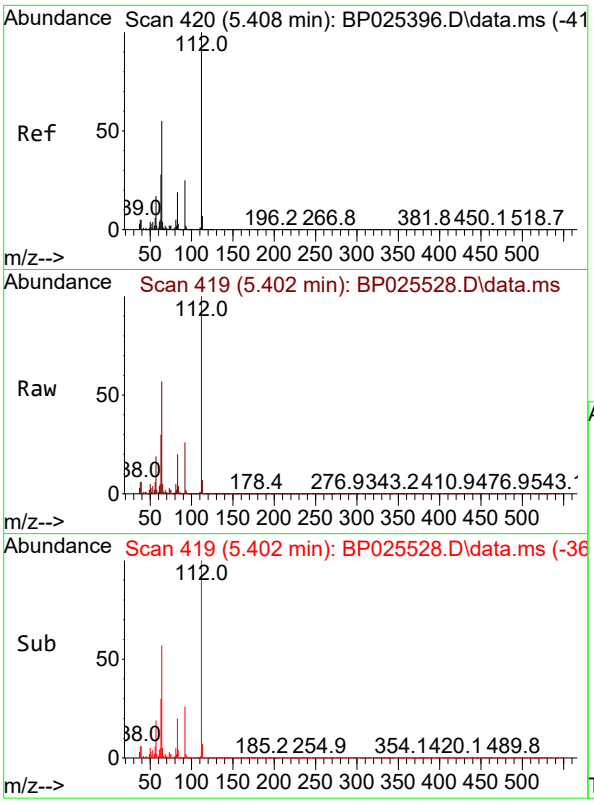


#4
n-Nitrosodimethylamine
Concen: 44.377 ng
RT: 3.631 min Scan# 118
Delta R.T. -0.006 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Tgt Ion: 42 Resp: 248430

Ion	Ratio	Lower	Upper
42	100		
74	126.1	107.0	160.4
44	7.1	6.2	9.4



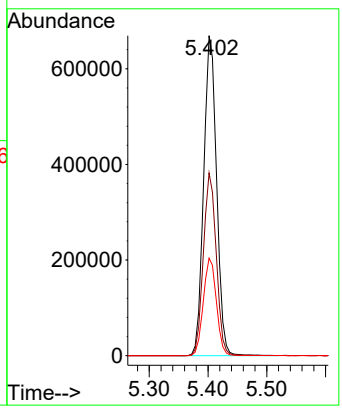


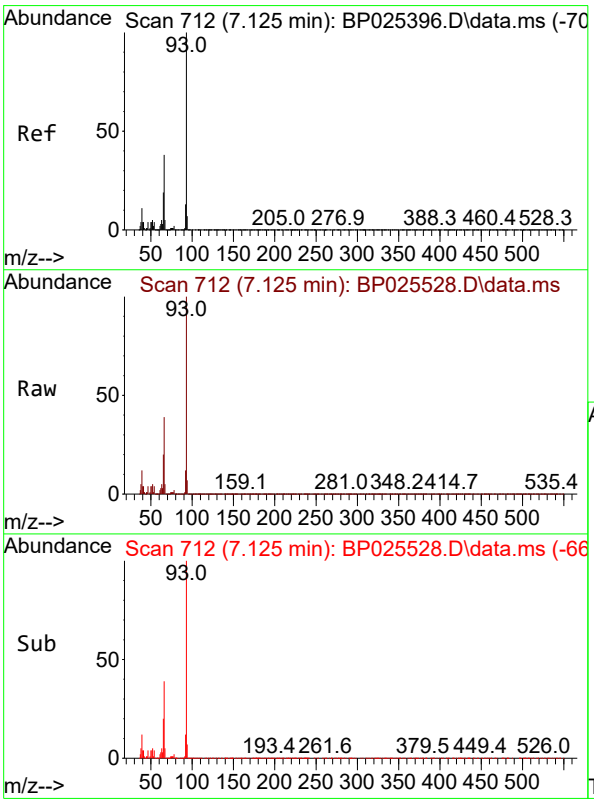
#5
2-Fluorophenol
Concen: 80.452 ng
RT: 5.402 min Scan# 4
Delta R.T. -0.006 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:112 Resp: 1018965

Ion	Ratio	Lower	Upper
112	100		
64	57.1	43.8	65.8
63	30.4	22.7	34.1

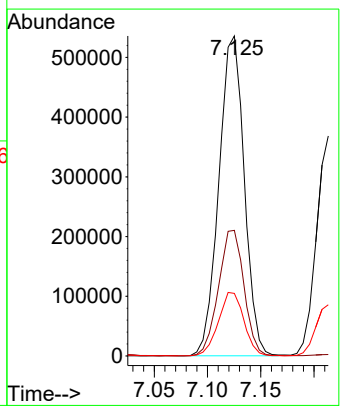


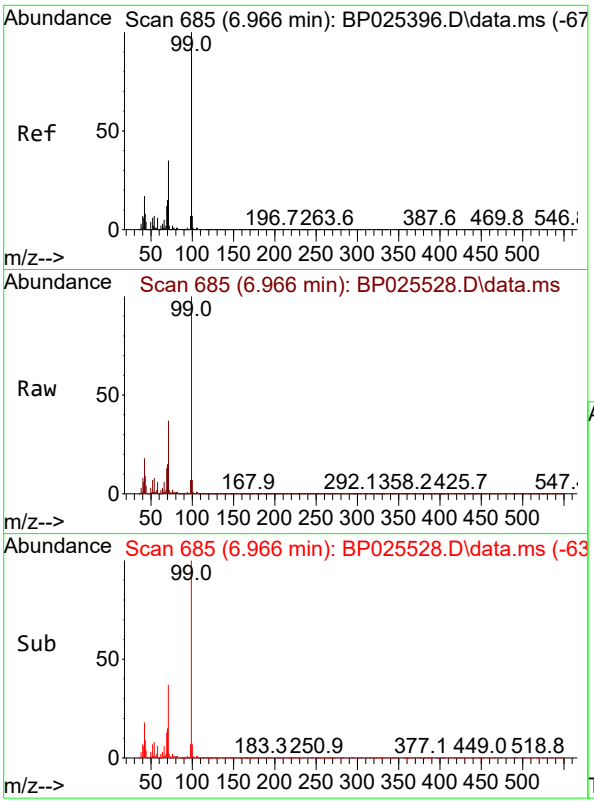


#6
Aniline
Concen: 40.577 ng
RT: 7.125 min Scan# 712
Delta R.T. 0.000 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Tgt Ion: 93 Resp: 887762

Ion	Ratio	Lower	Upper
93	100		
66	39.2	30.4	45.6
65	19.5	15.3	22.9



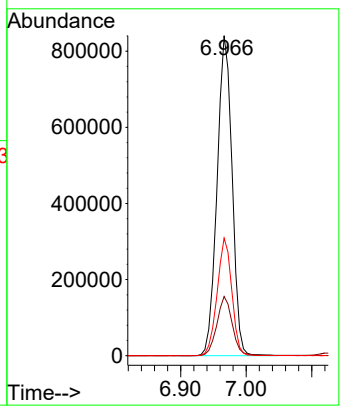


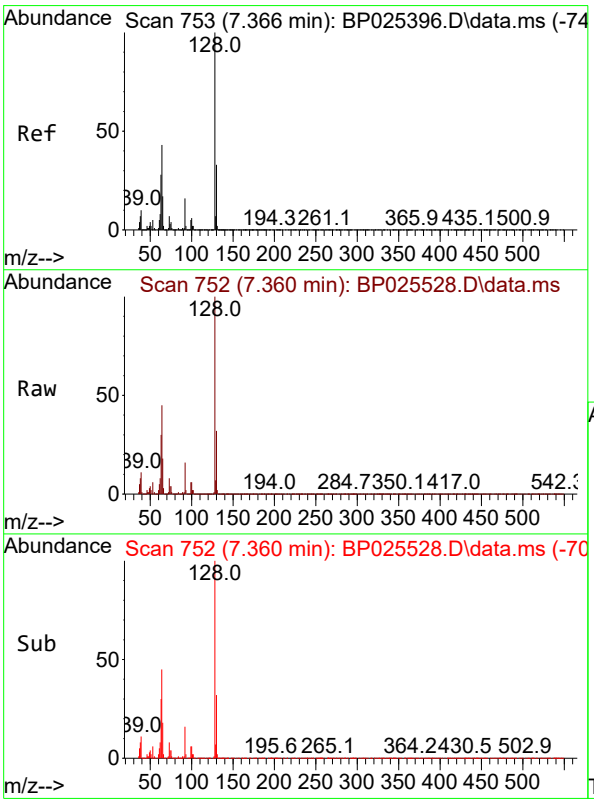
#7
Phenol-d6
Concen: 82.271 ng
RT: 6.966 min Scan# 6
Delta R.T. 0.000 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion: 99 Resp: 1335936

Ion	Ratio	Lower	Upper
99	100		
42	18.5	13.7	20.5
71	36.7	28.2	42.4

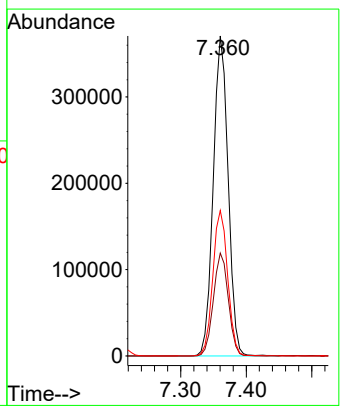


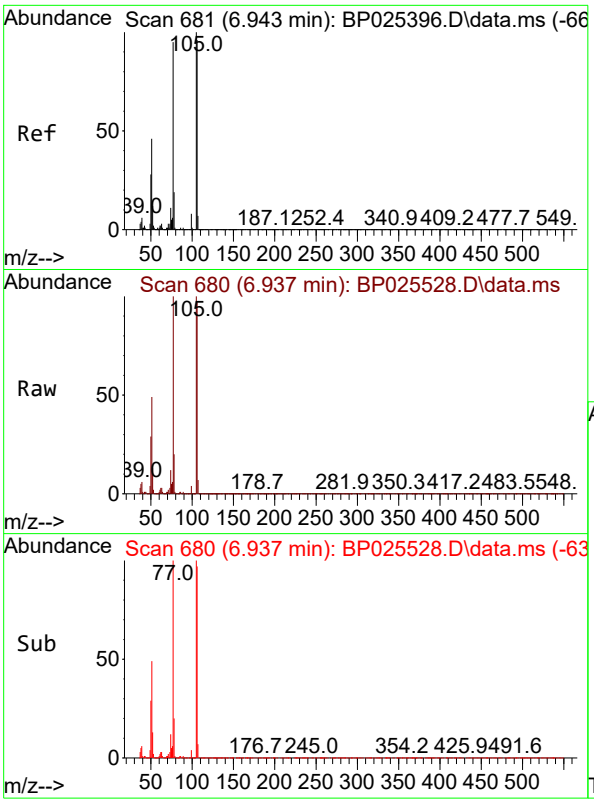


#8
2-Chlorophenol
Concen: 40.707 ng
RT: 7.360 min Scan# 752
Delta R.T. -0.006 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Tgt Ion:128 Resp: 581806

Ion	Ratio	Lower	Upper
128	100		
130	32.1	12.6	52.6
64	45.5	23.4	63.4



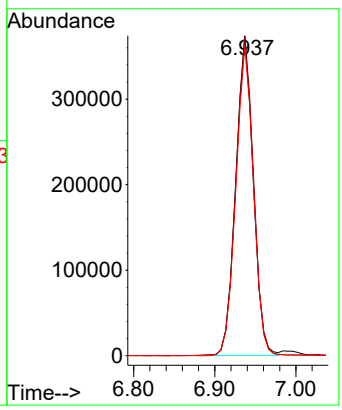


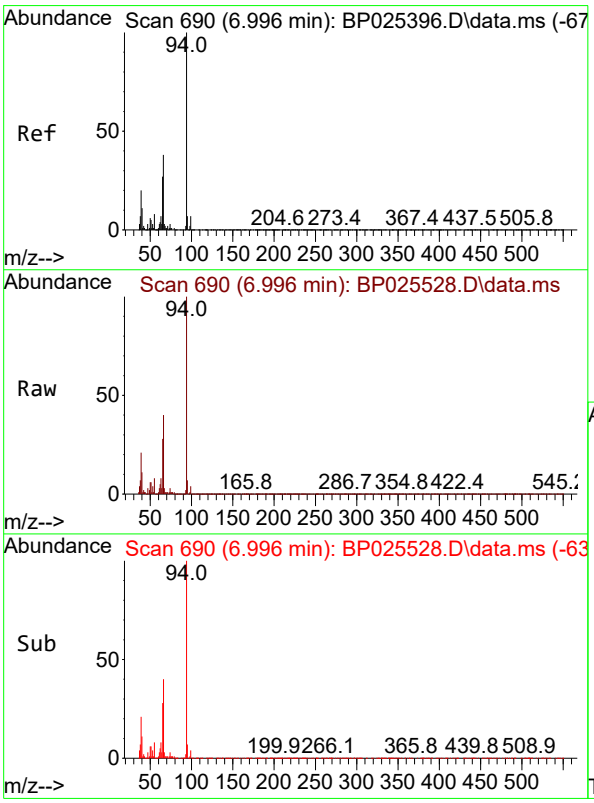
#9
Benzaldehyde
Concen: 49.222 ng
RT: 6.937 min Scan# 6
Delta R.T. -0.006 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion: 77 Resp: 559981

Ion	Ratio	Lower	Upper
77	100		
105	100.2	84.8	124.8
106	96.7	80.5	120.5

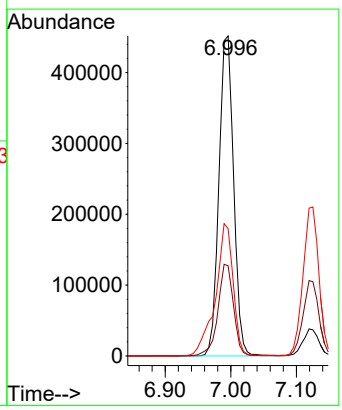


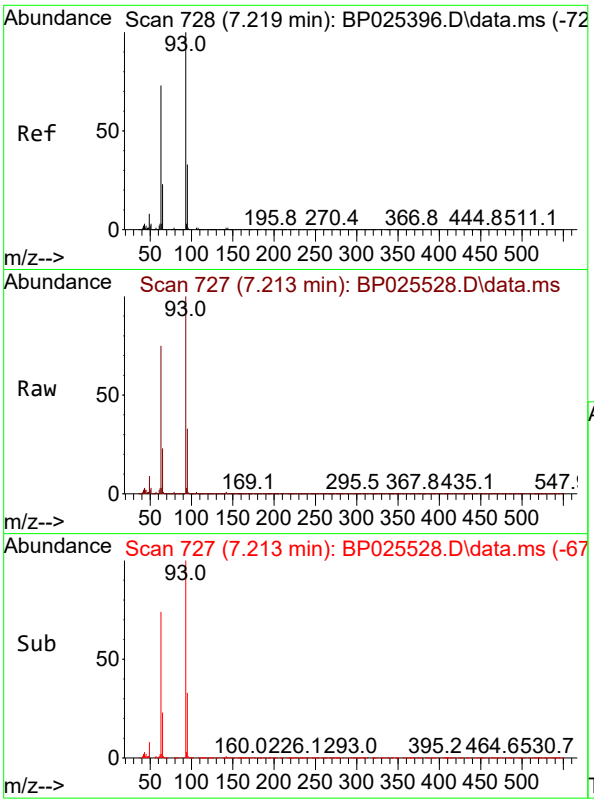


#10
Phenol
Concen: 41.075 ng
RT: 6.996 min Scan# 690
Delta R.T. 0.000 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Tgt Ion: 94 Resp: 699876

Ion	Ratio	Lower	Upper
94	100		
65	28.2	6.8	46.8
66	39.8	18.2	58.2



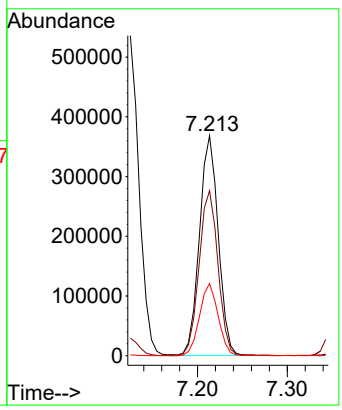


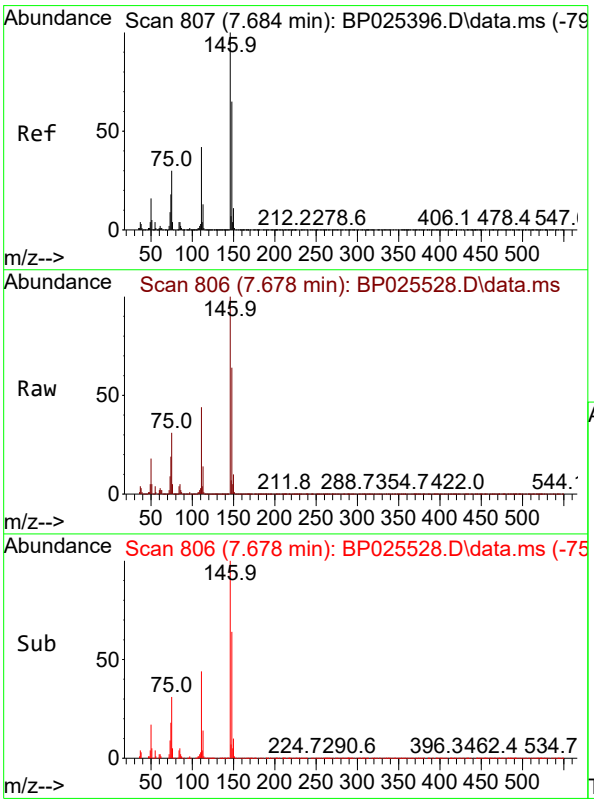
#11
bis(2-Chloroethyl)ether
Concen: 40.272 ng
RT: 7.213 min Scan# 7
Delta R.T. -0.006 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion: 93 Resp: 534841

Ion	Ratio	Lower	Upper
93	100		
63	75.0	52.6	92.6
95	32.8	12.7	52.7

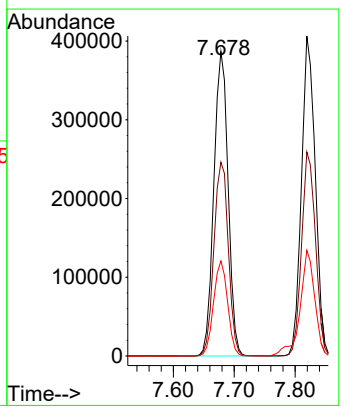


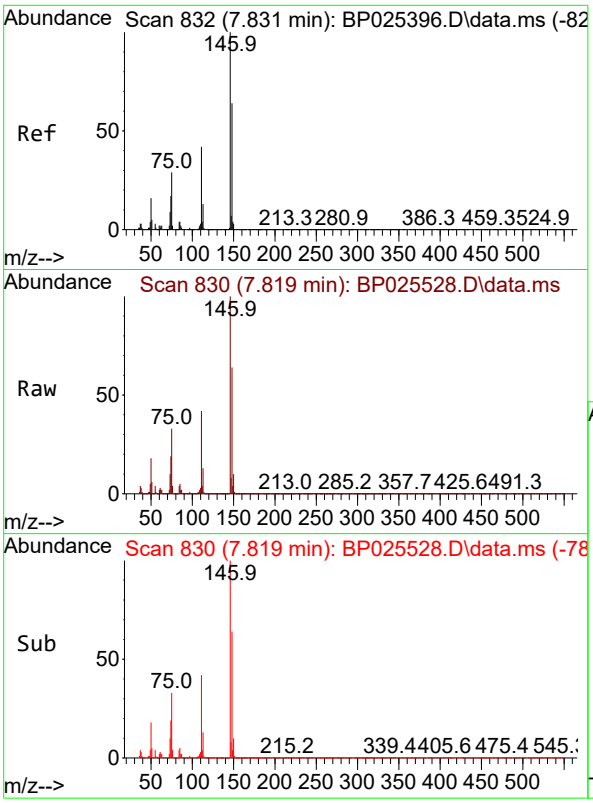


#12
1,3-Dichlorobenzene
Concen: 39.834 ng
RT: 7.678 min Scan# 806
Delta R.T. -0.006 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Tgt Ion:146 Resp: 627773

Ion	Ratio	Lower	Upper
146	100		
148	63.7	51.9	77.9
75	31.2	23.7	35.5



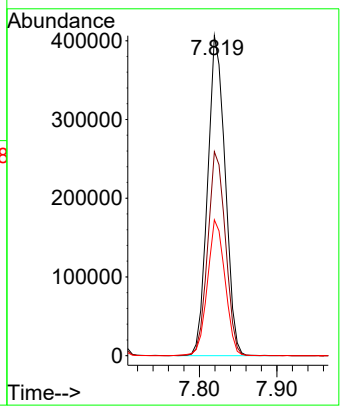


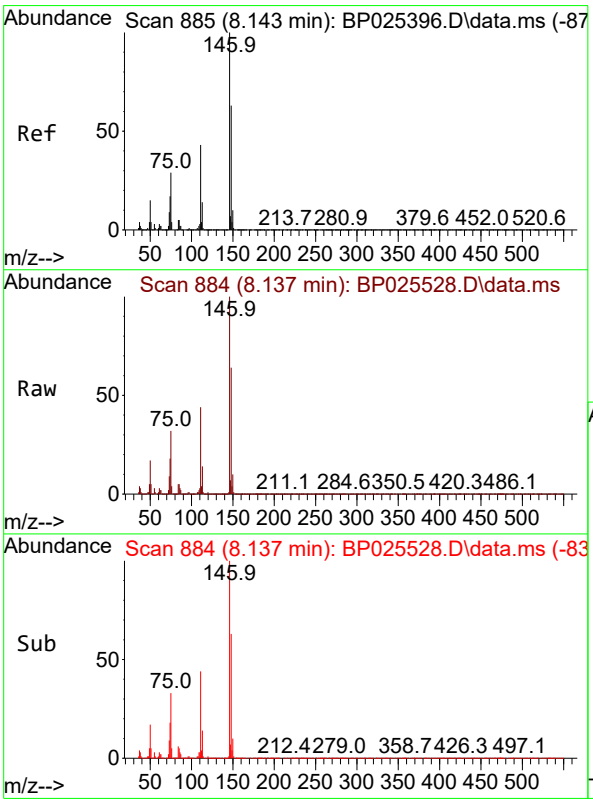
#13
1,4-Dichlorobenzene
Concen: 39.573 ng
RT: 7.819 min Scan# 8
Delta R.T. -0.012 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:146 Resp: 637445

Ion	Ratio	Lower	Upper
146	100		
148	63.7	51.6	77.4
111	42.5	33.4	50.0

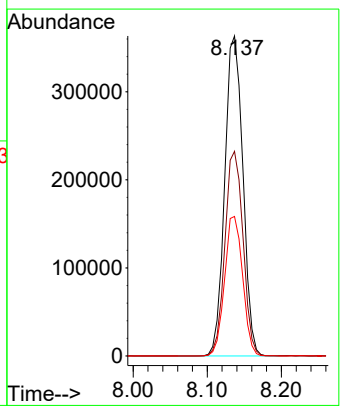


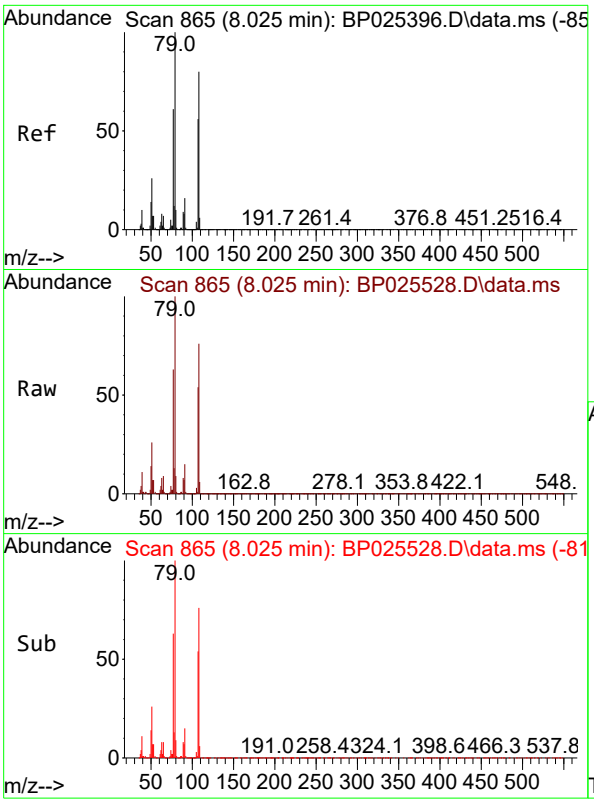


#14
1,2-Dichlorobenzene
Concen: 39.615 ng
RT: 8.137 min Scan# 884
Delta R.T. -0.006 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Tgt Ion:146 Resp: 617713

Ion	Ratio	Lower	Upper
146	100		
148	63.9	50.4	75.6
111	43.6	34.5	51.7



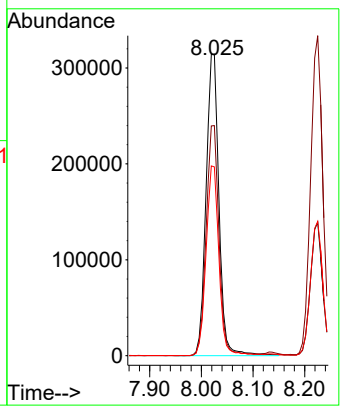


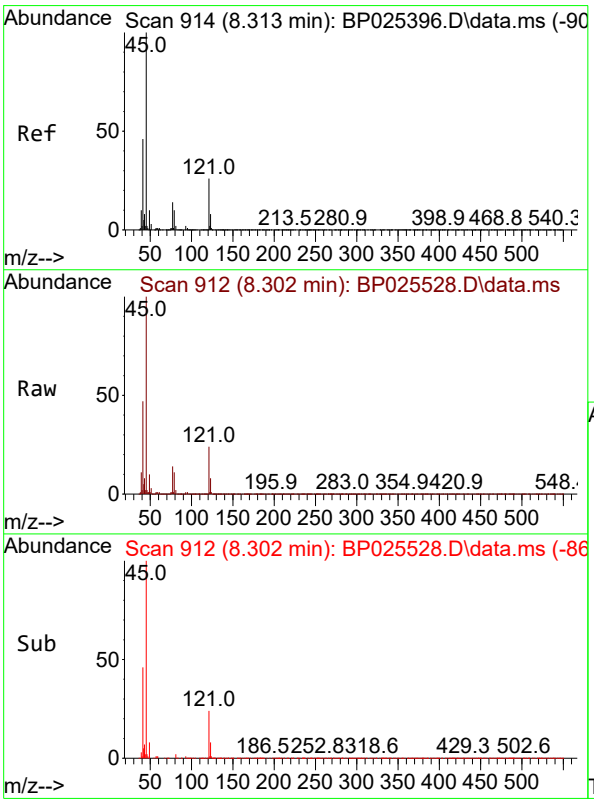
#15
Benzyl Alcohol
Concen: 42.156 ng
RT: 8.025 min Scan# 8
Delta R.T. 0.000 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion: 79 Resp: 543909

Ion	Ratio	Lower	Upper
79	100		
108	76.3	63.8	95.6
77	62.6	49.0	73.4

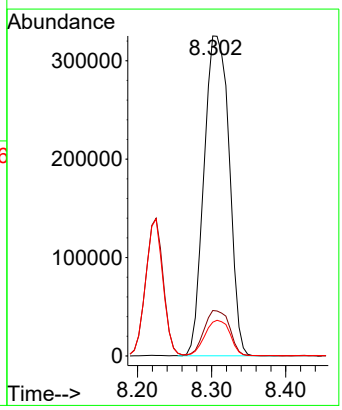


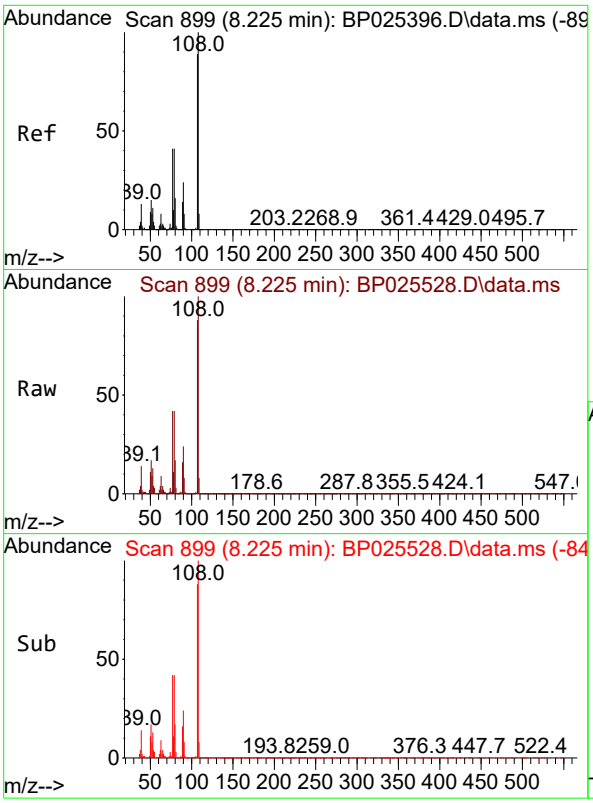


#16
2,2'-oxybis(1-Chloropropane)
Concen: 43.083 ng
RT: 8.302 min Scan# 912
Delta R.T. -0.012 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Tgt Ion: 45 Resp: 766477

Ion	Ratio	Lower	Upper
45	100		
77	14.2	0.0	35.3
79	10.5	0.0	31.8



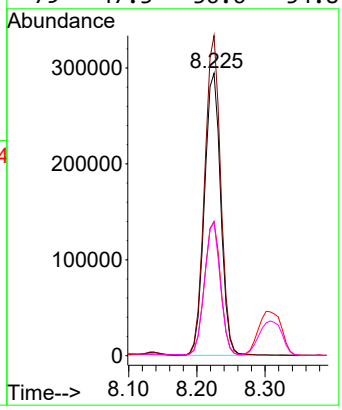


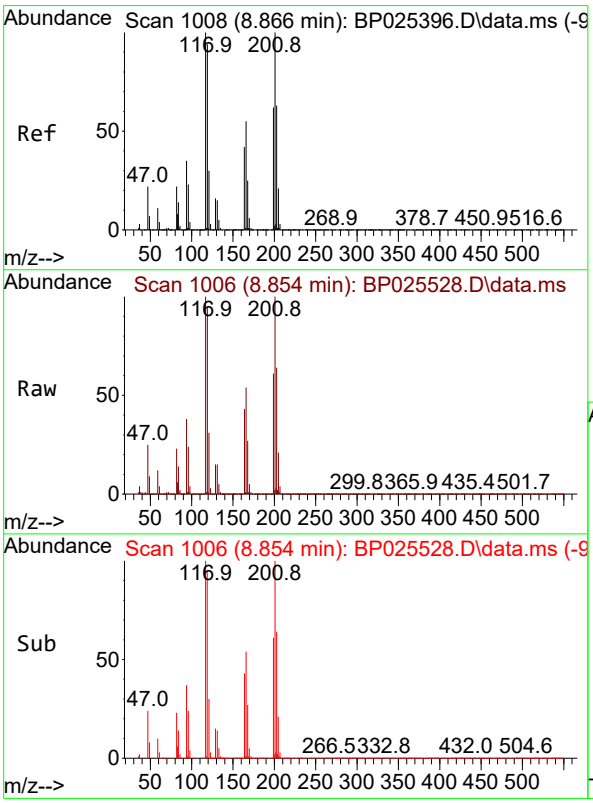
#17
2-Methylphenol
Concen: 41.208 ng
RT: 8.225 min Scan# 8
Delta R.T. 0.000 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:107 Resp: 487657

Ion	Ratio	Lower	Upper
107	100		
108	113.3	89.4	134.0
77	47.5	36.3	54.5
79	47.3	36.6	54.8

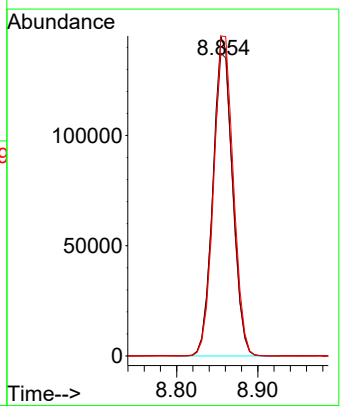


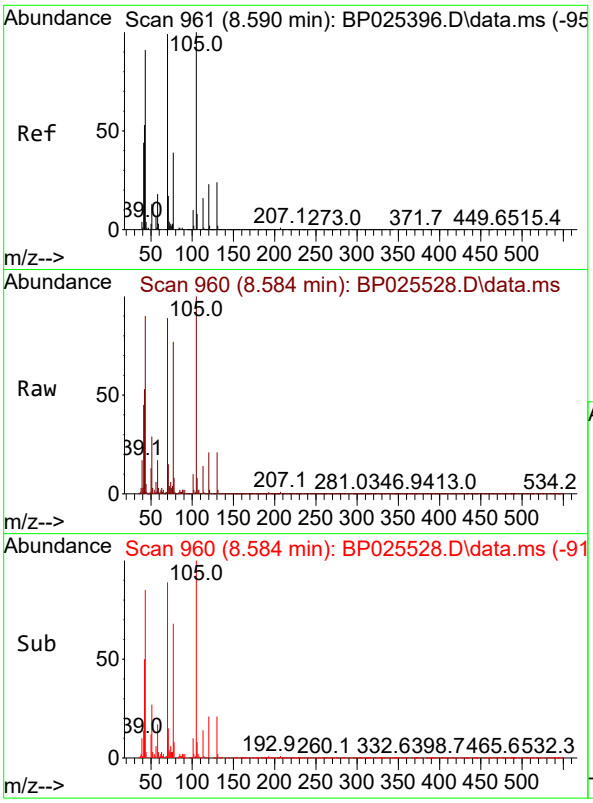


#18
Hexachloroethane
Concen: 40.767 ng
RT: 8.854 min Scan# 1006
Delta R.T. -0.012 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Tgt Ion:117 Resp: 241449

Ion	Ratio	Lower	Upper
117	100		
119	94.9	75.1	112.7
201	100.4	80.1	120.1



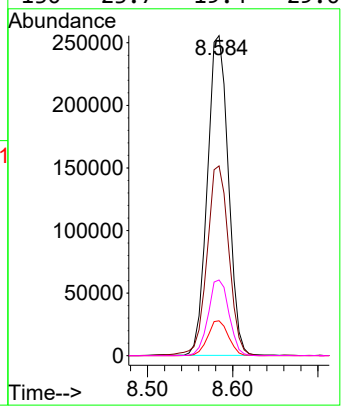


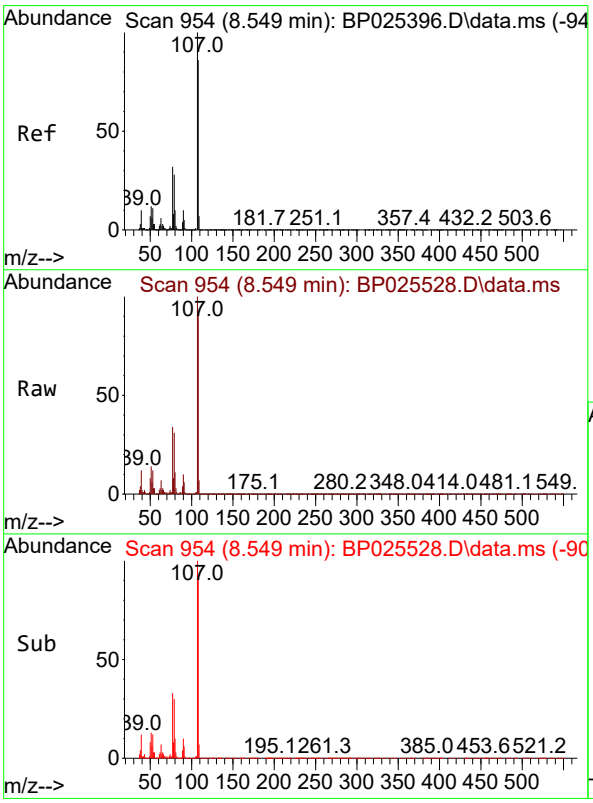
#19
n-Nitroso-di-n-propylamine
Concen: 40.542 ng
RT: 8.584 min Scan# 9
Delta R.T. -0.006 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion: 70 Resp: 436071

Ion	Ratio	Lower	Upper
70	100		
42	59.3	43.8	65.6
101	10.9	8.5	12.7
130	23.7	19.4	29.0

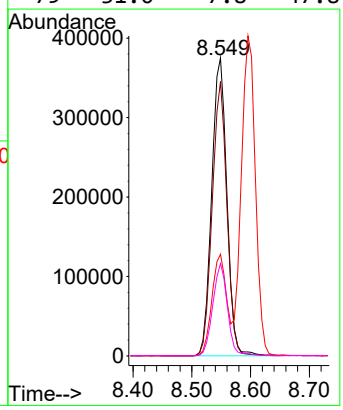


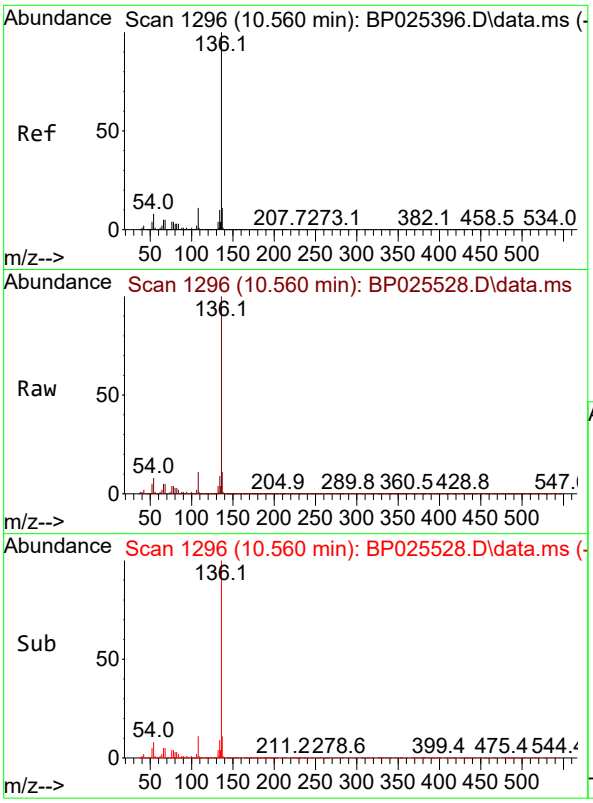


#20
3+4-Methylphenols
Concen: 40.875 ng
RT: 8.549 min Scan# 954
Delta R.T. 0.000 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Tgt Ion:107 Resp: 670504

Ion	Ratio	Lower	Upper
107	100		
108	92.0	66.3	106.3
77	34.1	12.3	52.3
79	31.0	7.8	47.8



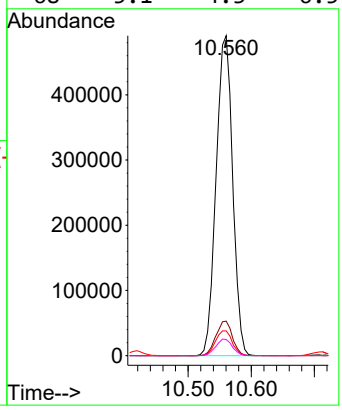


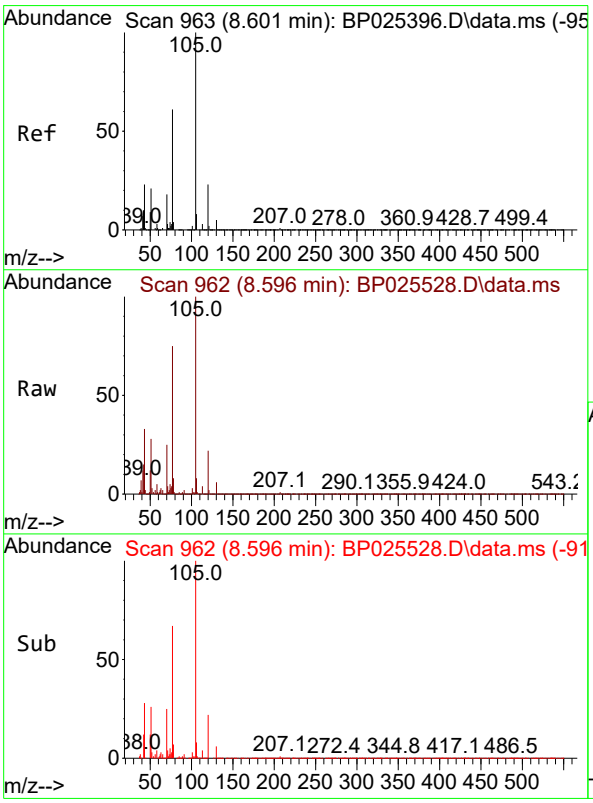
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.560 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:136 Resp: 893021

Ion	Ratio	Lower	Upper
136	100		
137	10.8	9.2	13.8
54	7.8	6.0	9.0
68	5.1	4.3	6.5

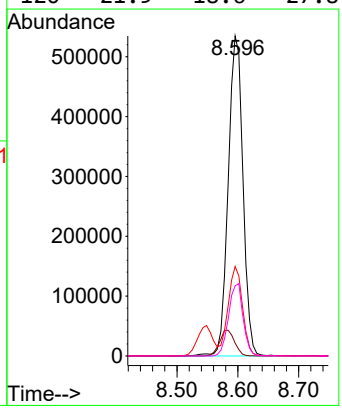


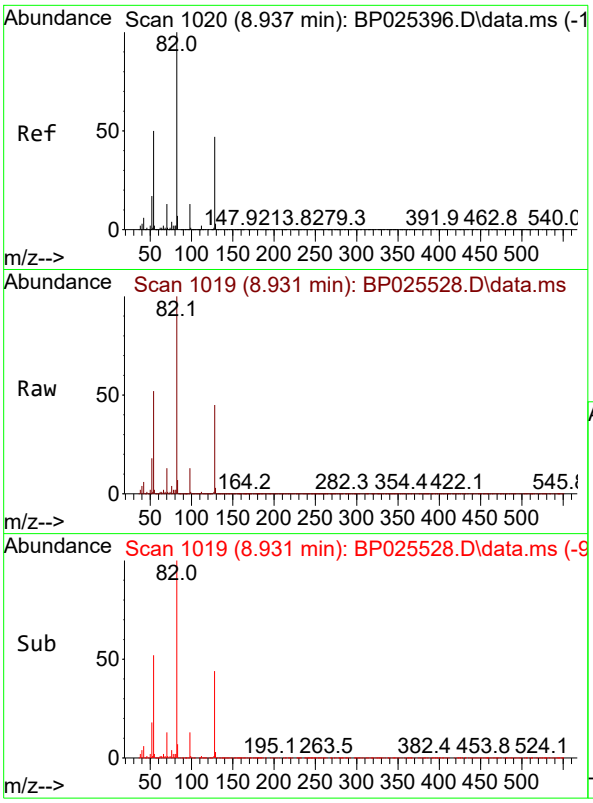


#22
Acetophenone
Concen: 40.242 ng
RT: 8.596 min Scan# 962
Delta R.T. -0.006 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Tgt Ion:105 Resp: 901234

Ion	Ratio	Lower	Upper
105	100		
71	4.0	2.6	4.0#
51	28.0	20.6	30.8
120	21.9	18.6	27.8



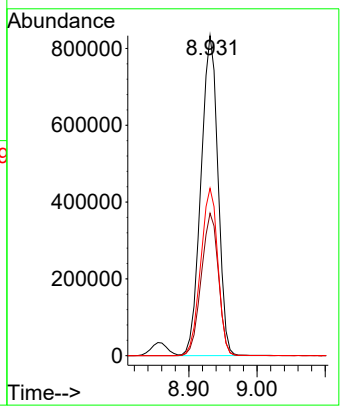


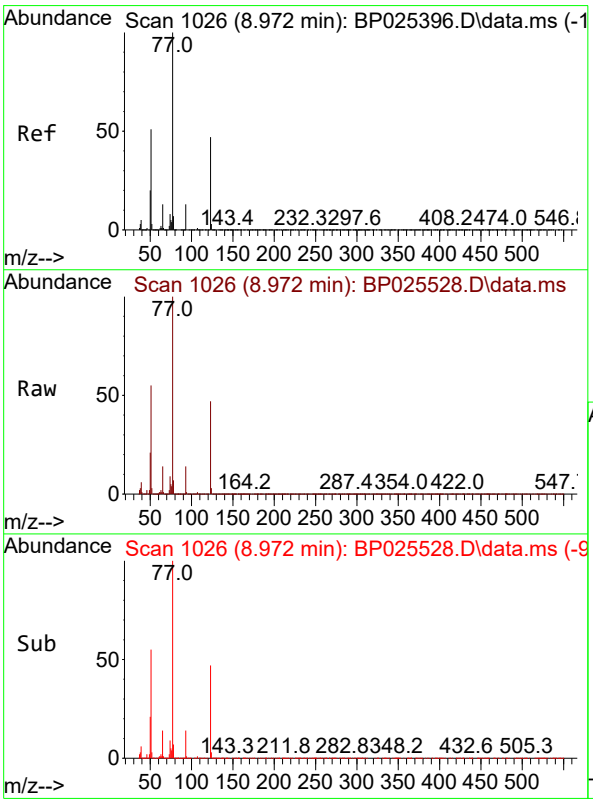
#23
Nitrobenzene-d5
Concen: 81.750 ng
RT: 8.931 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion: 82 Resp: 1443187

Ion	Ratio	Lower	Upper
82	100		
128	44.5	37.7	56.5
54	52.3	39.8	59.6

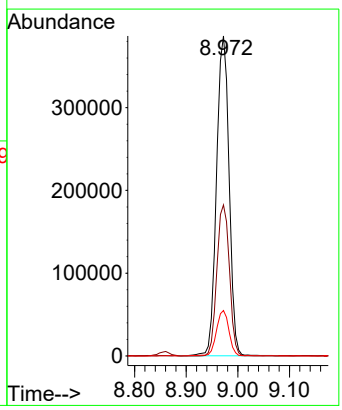


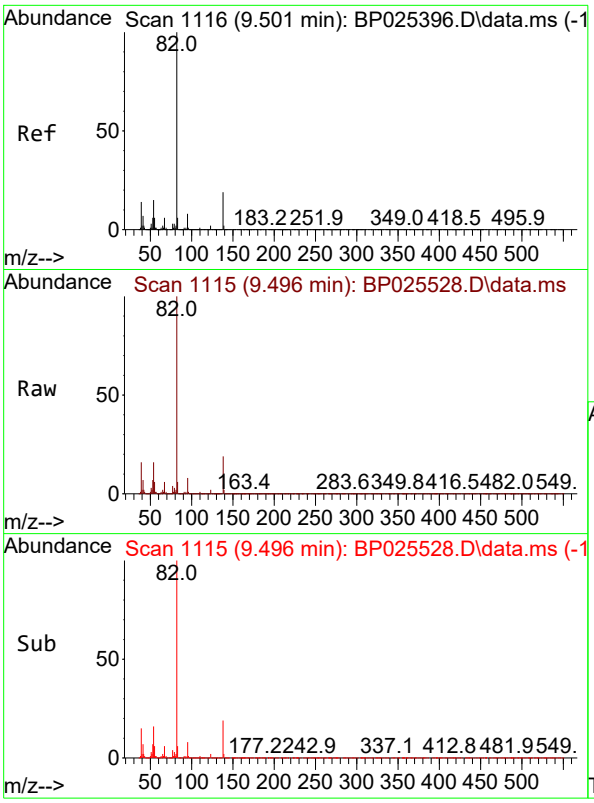


#24
Nitrobenzene
Concen: 41.331 ng
RT: 8.972 min Scan# 1026
Delta R.T. 0.000 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Tgt Ion: 77 Resp: 652095

Ion	Ratio	Lower	Upper
77	100		
123	47.2	38.6	58.0
65	14.2	10.6	15.8



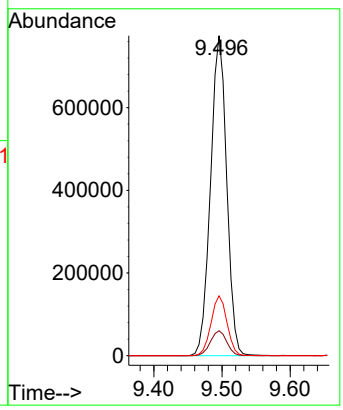


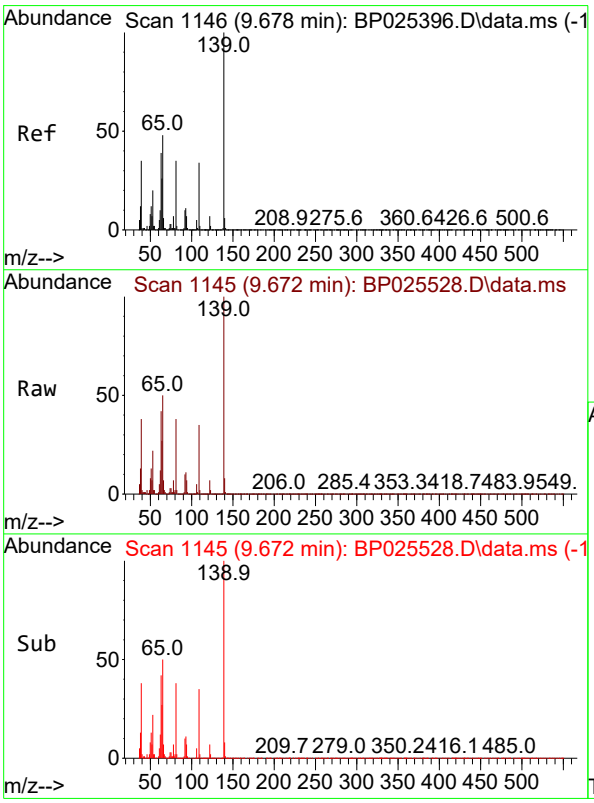
#25
Isophorone
Concen: 40.795 ng
RT: 9.496 min Scan# 11
Delta R.T. -0.006 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion: 82 Resp: 1274526

Ion	Ratio	Lower	Upper
82	100		
95	7.8	6.4	9.6
138	18.7	15.4	23.0

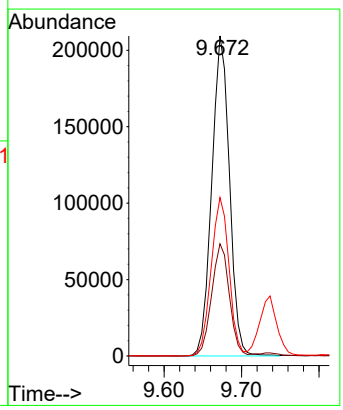


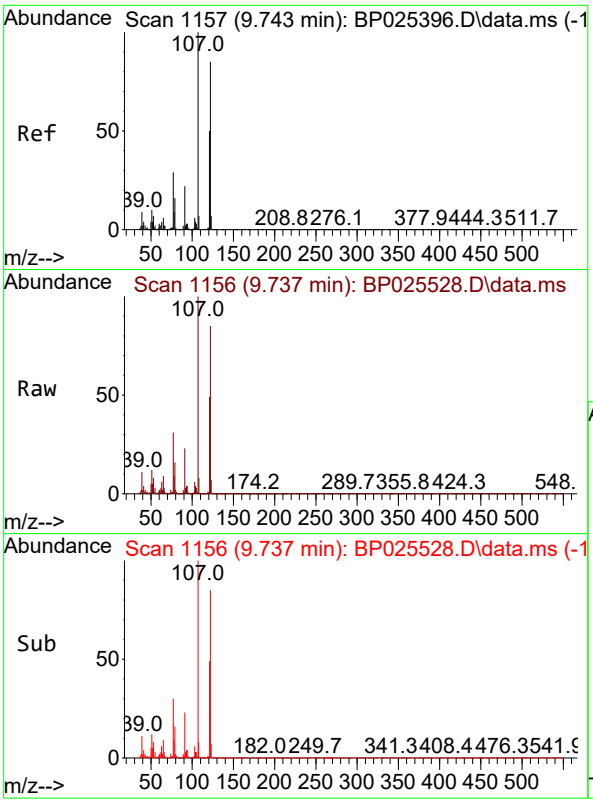


#26
2-Nitrophenol
Concen: 41.048 ng
RT: 9.672 min Scan# 1145
Delta R.T. -0.006 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Tgt Ion:139 Resp: 332366

Ion	Ratio	Lower	Upper
139	100		
109	35.0	26.9	40.3
65	49.5	38.3	57.5



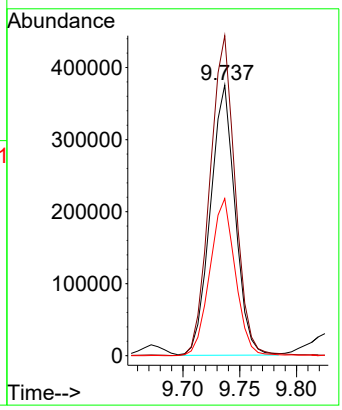


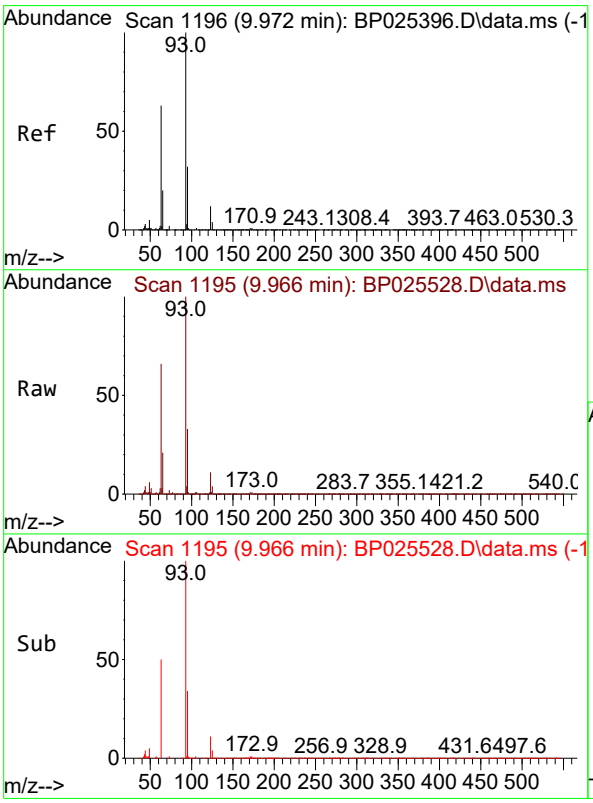
#27
2,4-Dimethylphenol
Concen: 40.905 ng
RT: 9.737 min Scan# 11
Delta R.T. -0.006 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:122 Resp: 569584

Ion	Ratio	Lower	Upper
122	100		
107	118.2	93.7	140.5
121	58.0	46.6	69.8

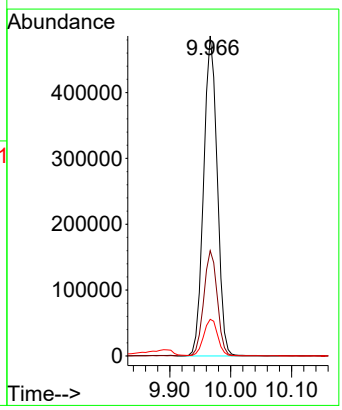


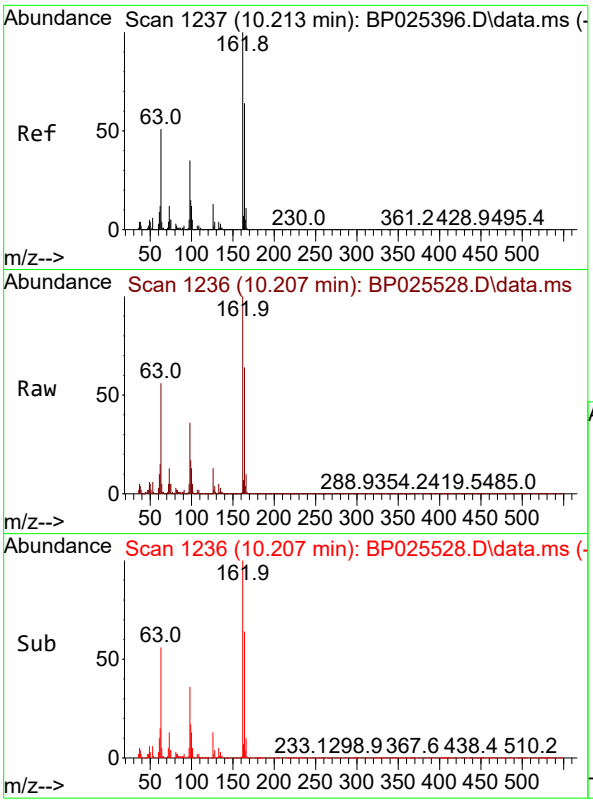


#28
bis(2-Chloroethoxy)methane
Concen: 39.830 ng
RT: 9.966 min Scan# 1195
Delta R.T. -0.006 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Tgt Ion: 93 Resp: 752214

Ion	Ratio	Lower	Upper
93	100		
95	32.9	25.4	38.0
123	11.5	9.4	14.0



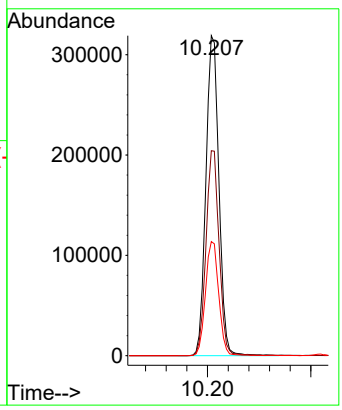


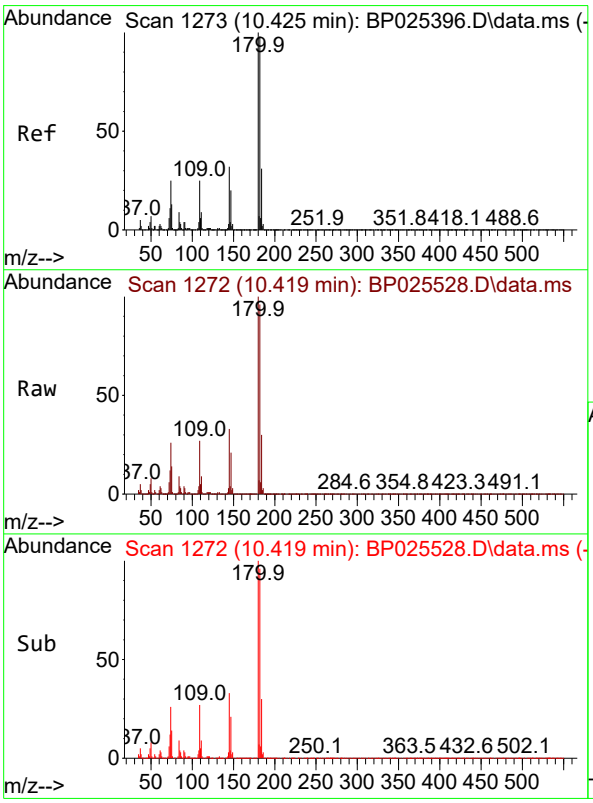
#29
2,4-Dichlorophenol
Concen: 40.321 ng
RT: 10.207 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:162 Resp: 557739

Ion	Ratio	Lower	Upper
162	100		
164	64.1	44.4	84.4
98	35.6	14.9	54.9

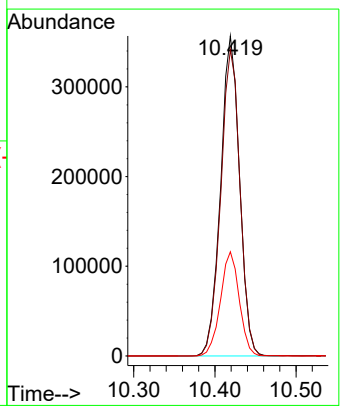


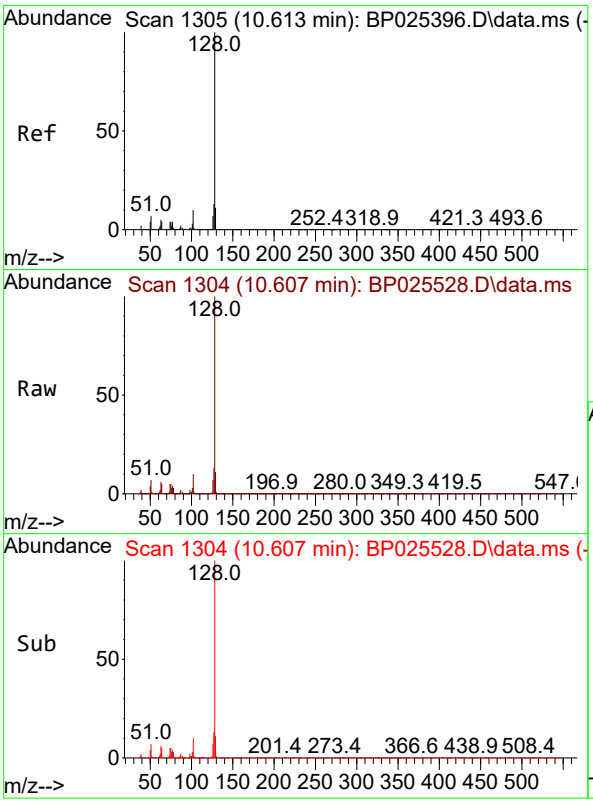


#30
1,2,4-Trichlorobenzene
Concen: 38.224 ng
RT: 10.419 min Scan# 1272
Delta R.T. -0.006 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Tgt Ion:180 Resp: 579601

Ion	Ratio	Lower	Upper
180	100		
182	95.7	78.0	117.0
145	32.6	25.9	38.9



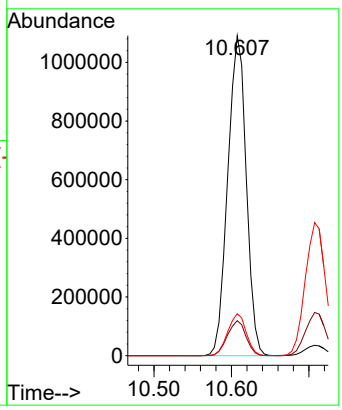


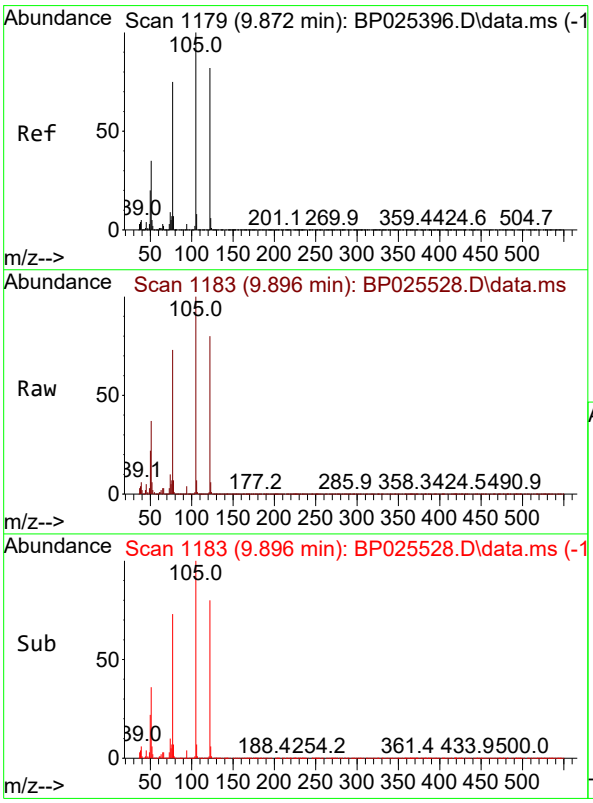
#31
Naphthalene
Concen: 39.071 ng
RT: 10.607 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:128 Resp: 1813476

Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.6	13.0
127	13.1	10.7	16.1

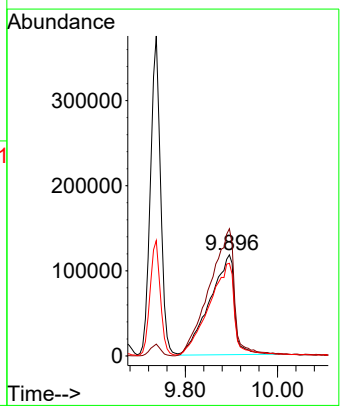


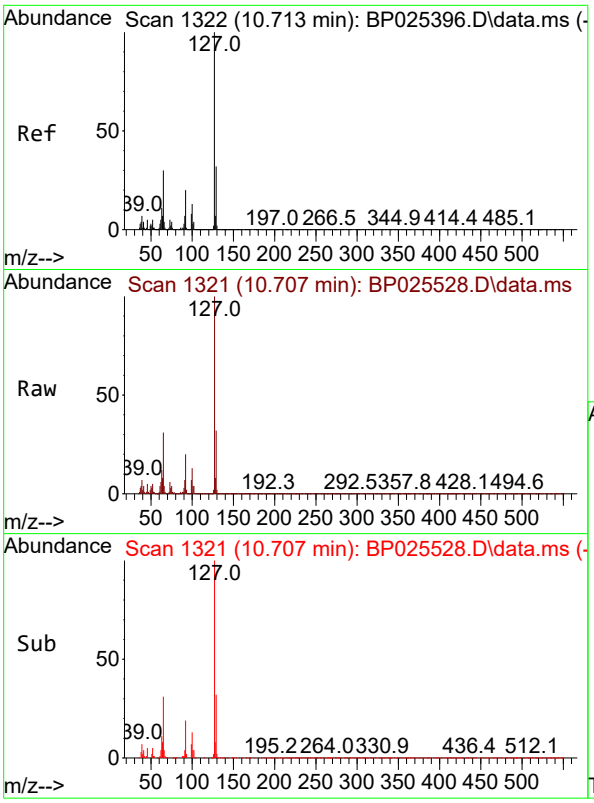


#32
Benzoic acid
Concen: 42.778 ng
RT: 9.896 min Scan# 1183
Delta R.T. 0.024 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Tgt Ion:122 Resp: 439768

Ion	Ratio	Lower	Upper
122	100		
105	125.7	100.6	140.6
77	91.6	71.5	111.5



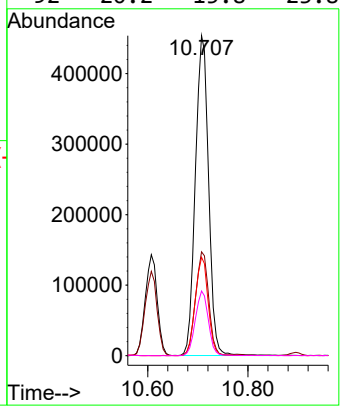


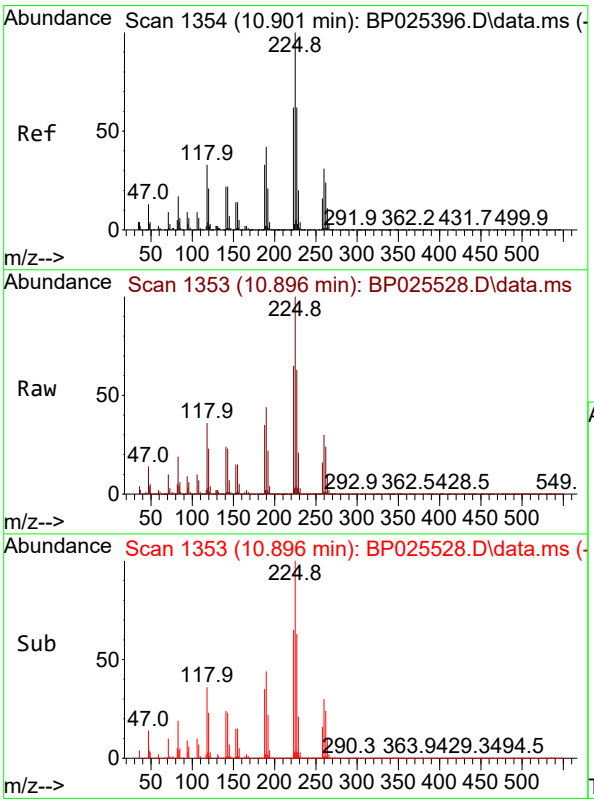
#33
4-Chloroaniline
Concen: 40.477 ng
RT: 10.707 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:127 Resp: 829890

Ion	Ratio	Lower	Upper
127	100		
129	32.5	25.4	38.2
65	30.7	23.8	35.6
92	20.2	15.8	23.8

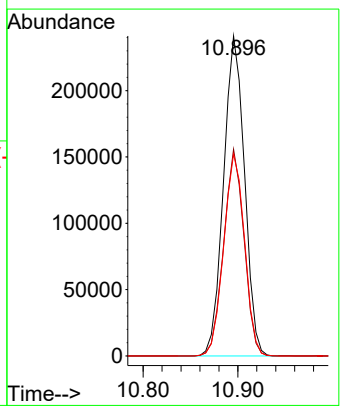


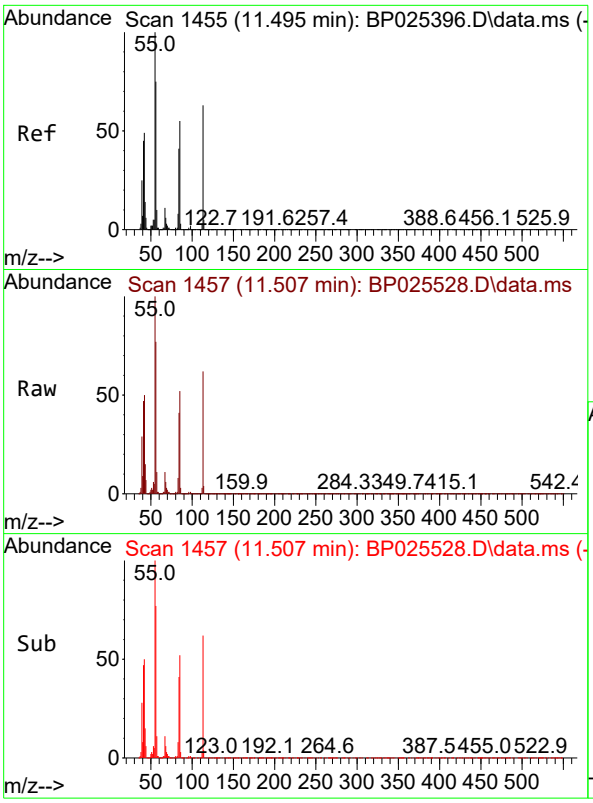


#34
Hexachlorobutadiene
Concen: 39.290 ng
RT: 10.896 min Scan# 1353
Delta R.T. -0.006 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Tgt Ion:225 Resp: 371034

Ion	Ratio	Lower	Upper
225	100		
223	64.6	50.0	75.0
227	63.1	49.7	74.5



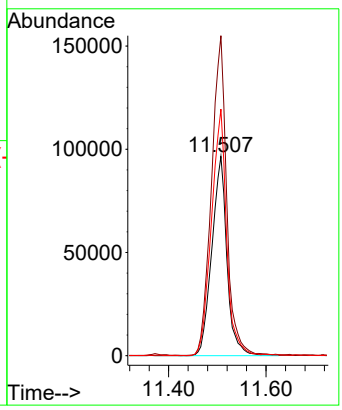


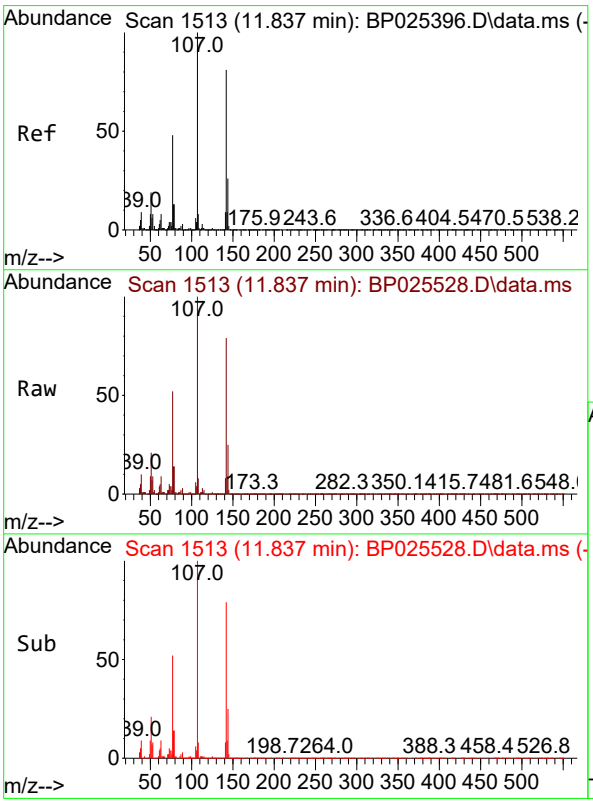
#35
Caprolactam
Concen: 40.851 ng
RT: 11.507 min Scan# 14
Delta R.T. 0.012 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:113 Resp: 207200

Ion	Ratio	Lower	Upper
113	100		
55	160.6	140.0	180.0
56	123.7	100.0	140.0

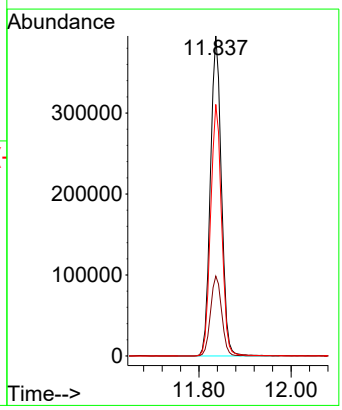


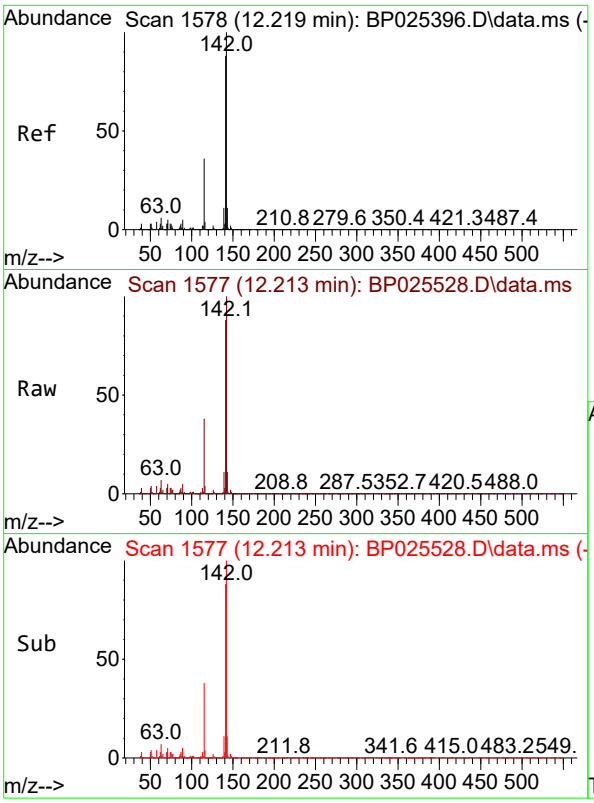


#36
4-Chloro-3-methylphenol
Concen: 41.225 ng
RT: 11.837 min Scan# 1513
Delta R.T. 0.000 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Tgt Ion:107 Resp: 654337

Ion	Ratio	Lower	Upper
107	100		
144	24.9	21.0	31.4
142	78.6	64.6	97.0



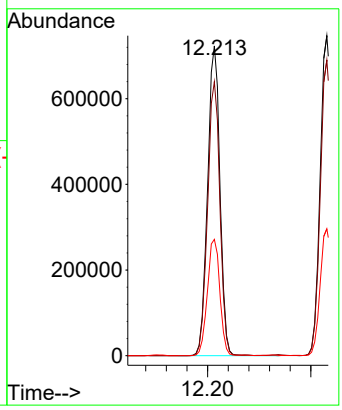


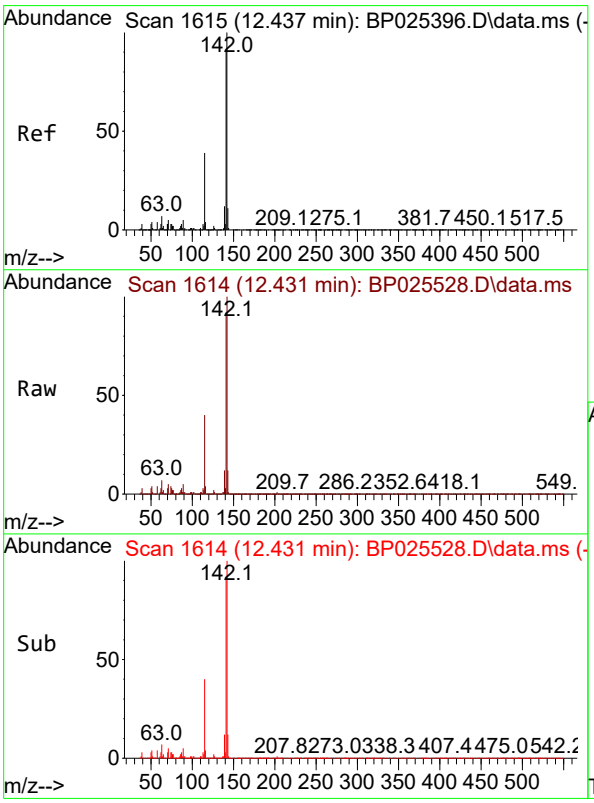
#37
2-Methylnaphthalene
Concen: 39.701 ng
RT: 12.213 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:142 Resp: 1199198

Ion	Ratio	Lower	Upper
142	100		
141	88.4	70.3	105.5
115	37.6	28.9	43.3

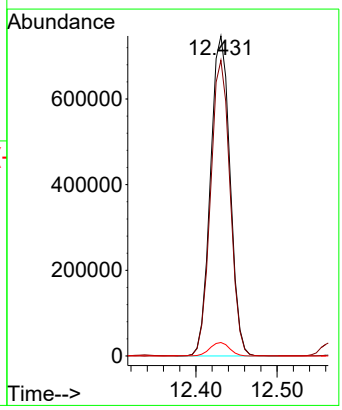


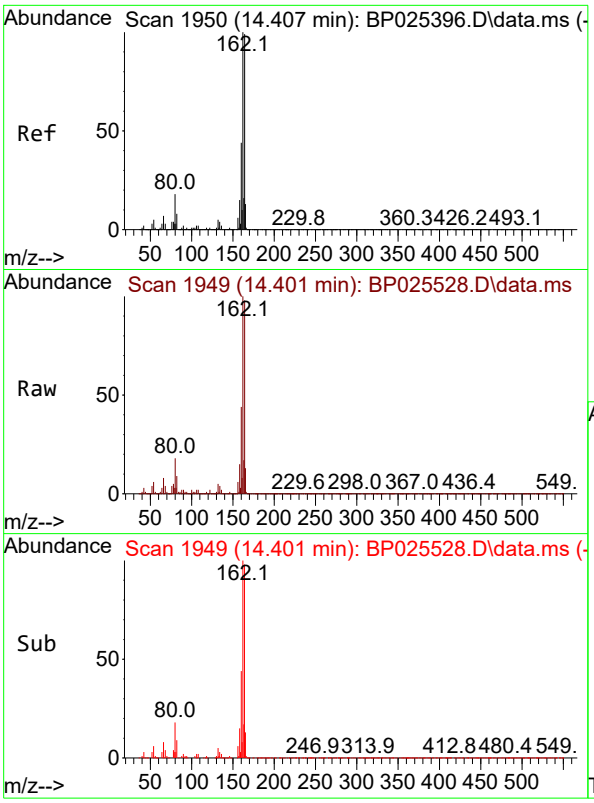


#38
1-Methylnaphthalene
Concen: 39.062 ng
RT: 12.431 min Scan# 1614
Delta R.T. -0.006 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Tgt Ion:142 Resp: 1254785

Ion	Ratio	Lower	Upper
142	100		
141	92.4	73.1	109.7
116	4.2	3.2	4.8



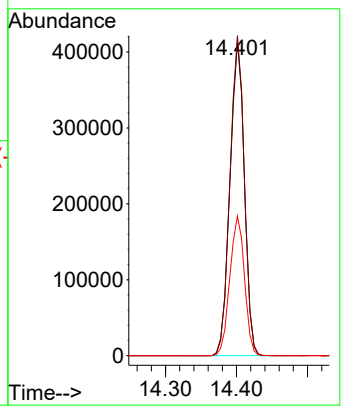


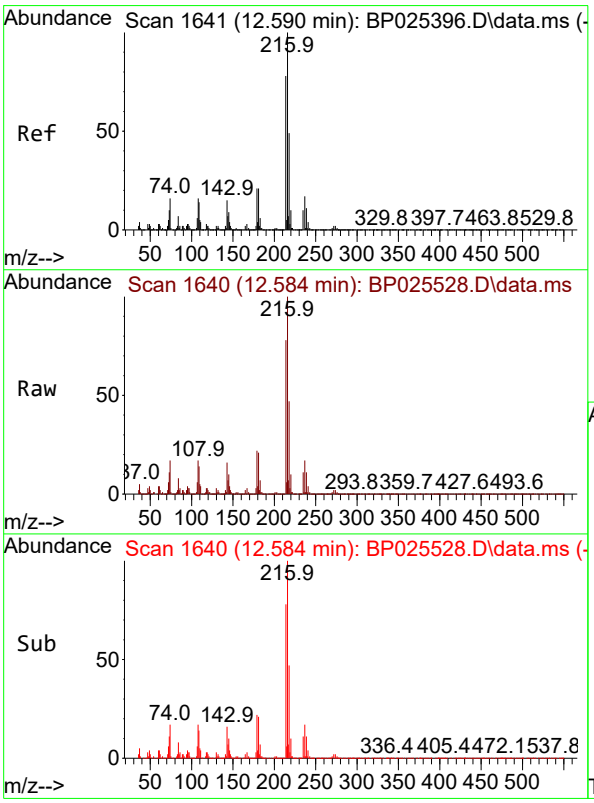
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.401 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:164 Resp: 582847

Ion	Ratio	Lower	Upper
164	100		
162	101.9	81.0	121.6
160	44.4	35.4	53.2

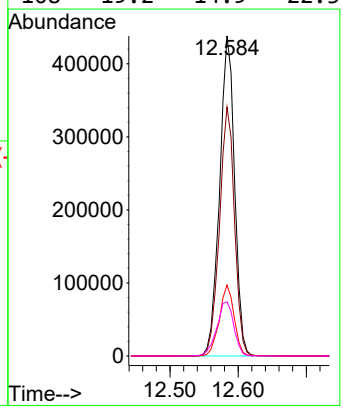


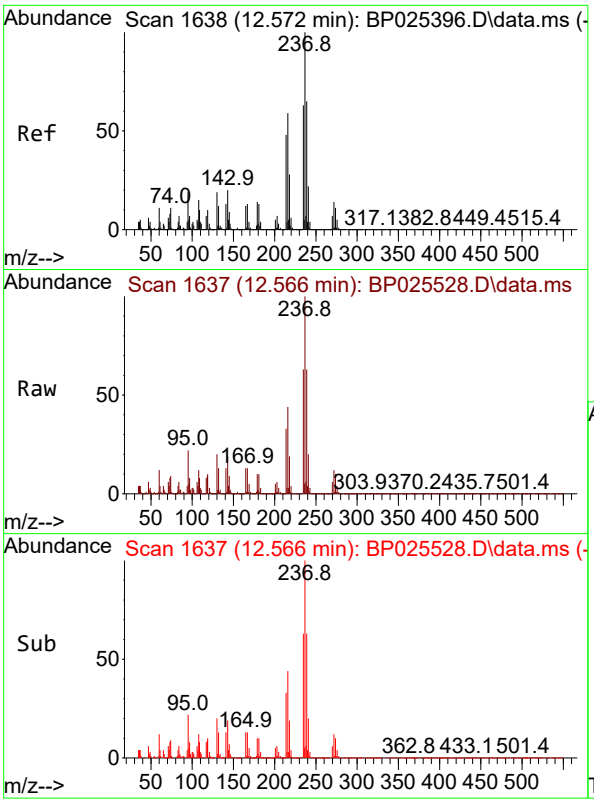


#40
1,2,4,5-Tetrachlorobenzene
Concen: 39.778 ng
RT: 12.584 min Scan# 1640
Delta R.T. -0.006 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Tgt Ion:216 Resp: 669588

Ion	Ratio	Lower	Upper
216	100		
214	78.0	63.0	94.4
179	21.9	17.1	25.7
108	19.2	14.9	22.3



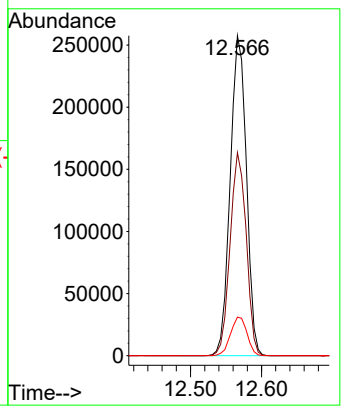


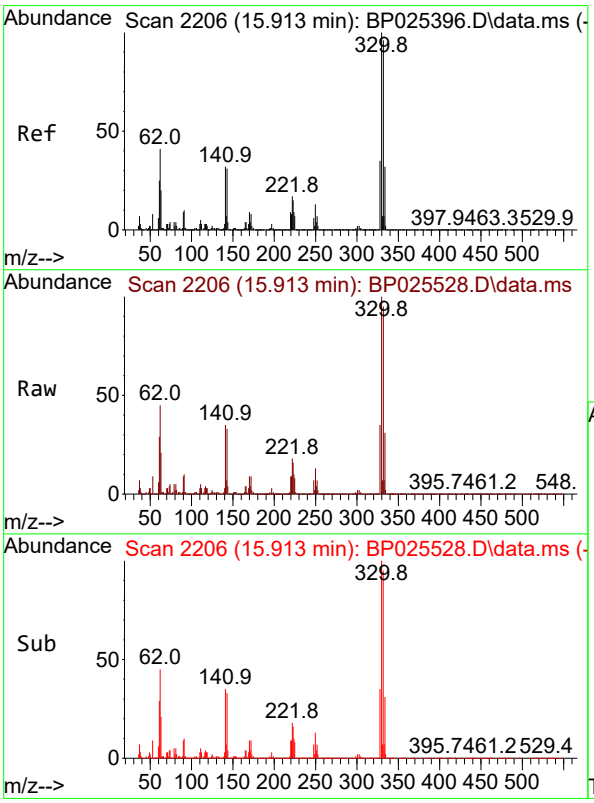
#41
Hexachlorocyclopentadiene
Concen: 40.117 ng
RT: 12.566 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:237 Resp: 407908

Ion	Ratio	Lower	Upper
237	100		
235	63.4	42.7	82.7
272	12.1	0.0	34.0

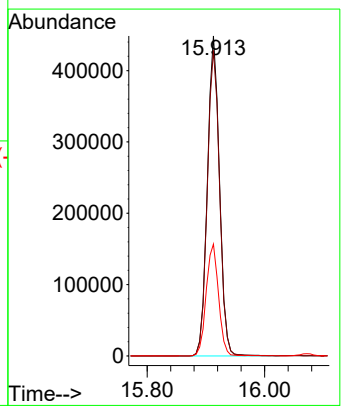


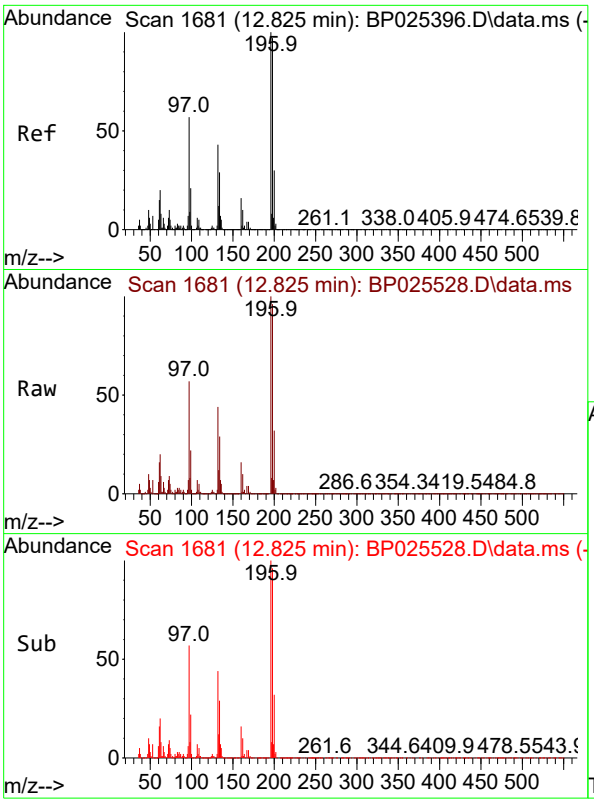


#42
2,4,6-Tribromophenol
Concen: 81.551 ng
RT: 15.913 min Scan# 2206
Delta R.T. 0.000 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Tgt Ion:330 Resp: 639783

Ion	Ratio	Lower	Upper
330	100		
332	97.0	77.3	115.9
141	35.7	26.6	39.8



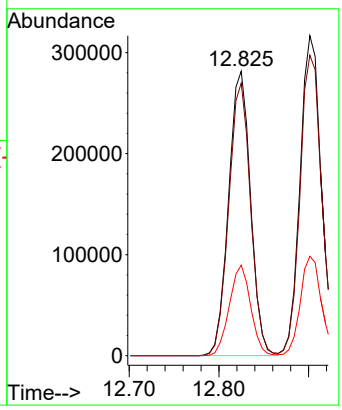


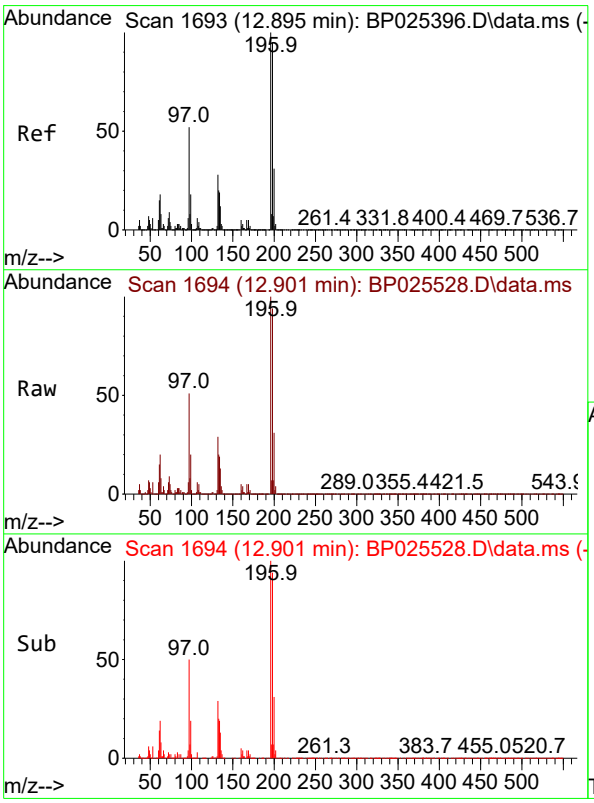
#43
2,4,6-Trichlorophenol
Concen: 42.093 ng
RT: 12.825 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:196 Resp: 478356

Ion	Ratio	Lower	Upper
196	100		
198	95.8	77.2	115.8
200	31.9	23.9	35.9

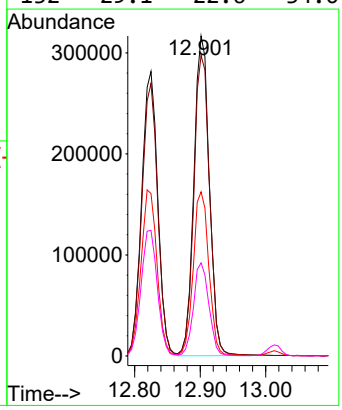


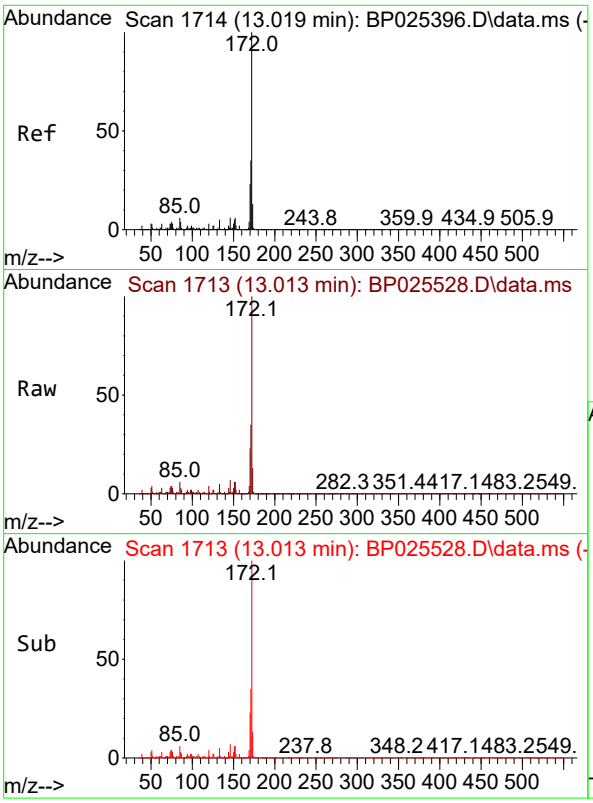


#44
2,4,5-Trichlorophenol
Concen: 41.781 ng
RT: 12.901 min Scan# 1694
Delta R.T. 0.006 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Tgt Ion:196 Resp: 520387

Ion	Ratio	Lower	Upper
196	100		
198	93.9	76.2	114.2
97	51.3	41.2	61.8
132	29.1	22.6	34.0



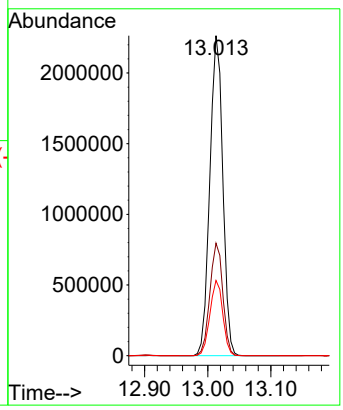


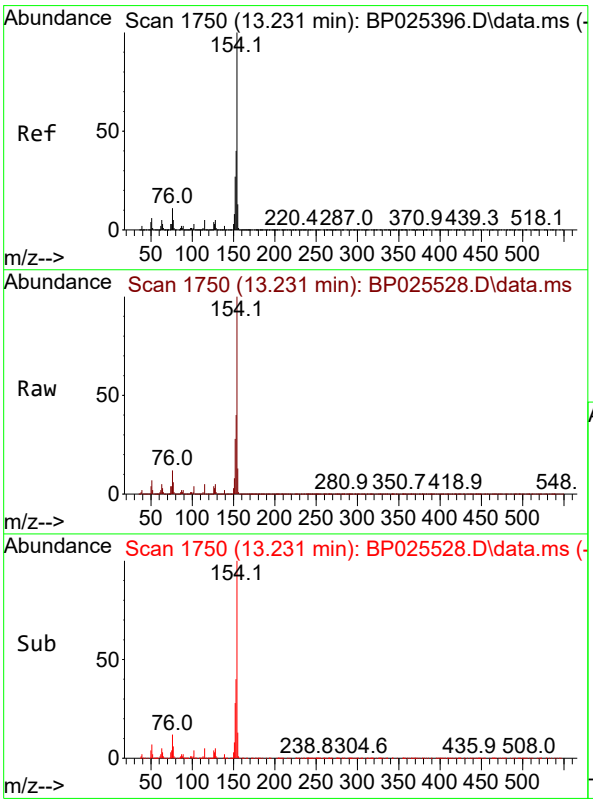
#45
2-Fluorobiphenyl
Concen: 75.599 ng
RT: 13.013 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:172 Resp: 3224036

Ion	Ratio	Lower	Upper
172	100		
171	35.2	28.1	42.1
170	23.5	18.6	28.0

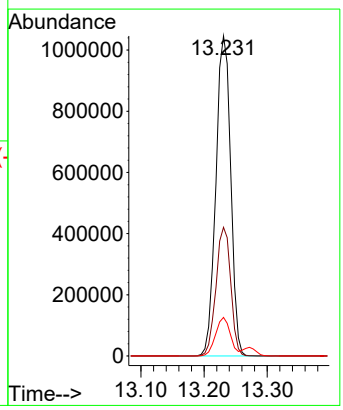


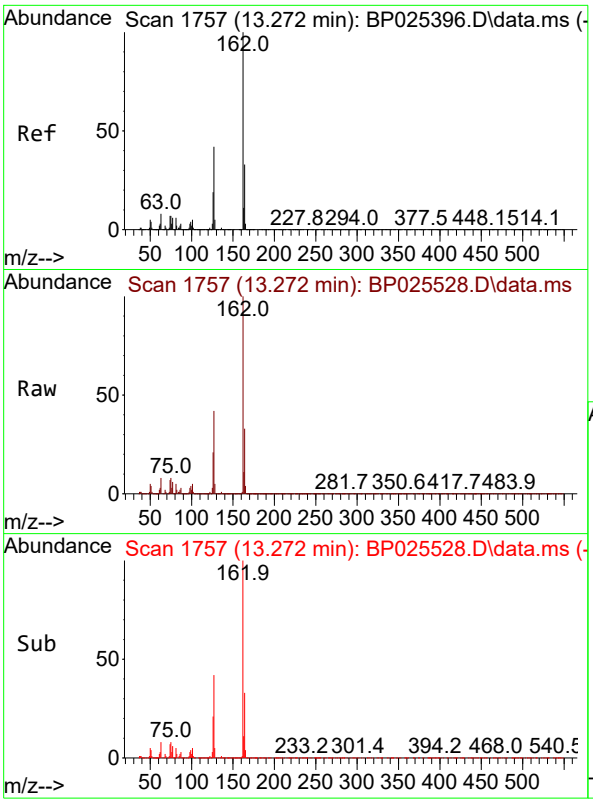


#46
1,1'-Biphenyl
Concen: 40.191 ng
RT: 13.231 min Scan# 1750
Delta R.T. 0.000 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Tgt Ion:154 Resp: 1701266

Ion	Ratio	Lower	Upper
154	100		
153	40.2	19.5	59.5
76	12.0	0.0	31.1



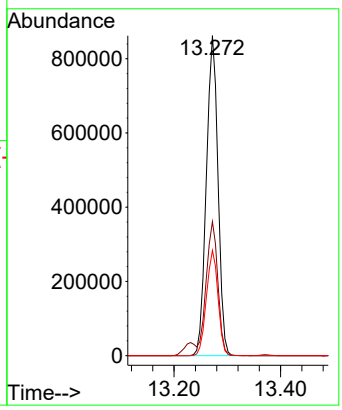


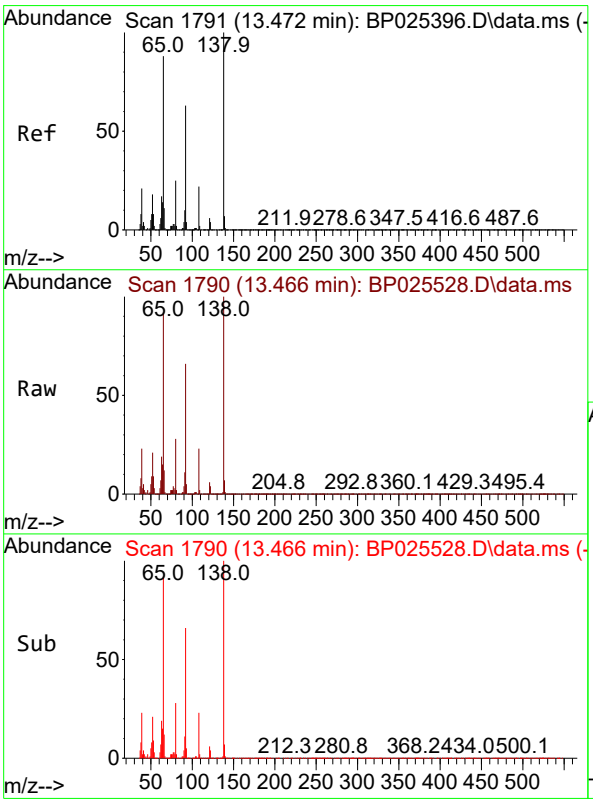
#47
2-Chloronaphthalene
Concen: 39.774 ng
RT: 13.272 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:162 Resp: 1310696

Ion	Ratio	Lower	Upper
162	100		
127	41.9	33.4	50.2
164	32.9	26.2	39.2

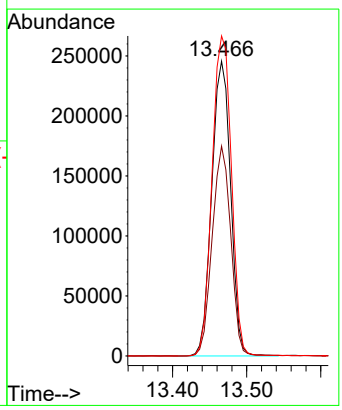


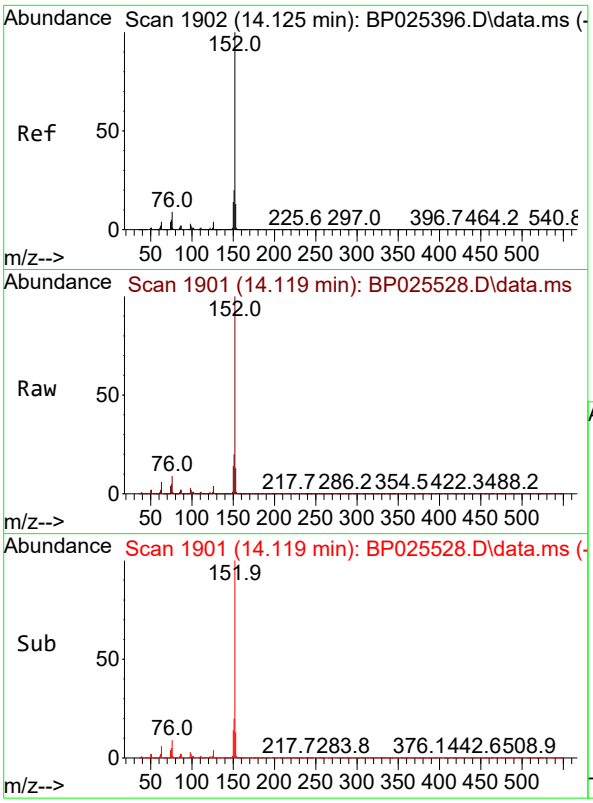


#48
2-Nitroaniline
Concen: 45.353 ng
RT: 13.466 min Scan# 1790
Delta R.T. -0.006 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Tgt Ion: 65 Resp: 435470

Ion	Ratio	Lower	Upper
65	100		
92	71.2	57.6	86.4
138	108.5	91.0	136.6



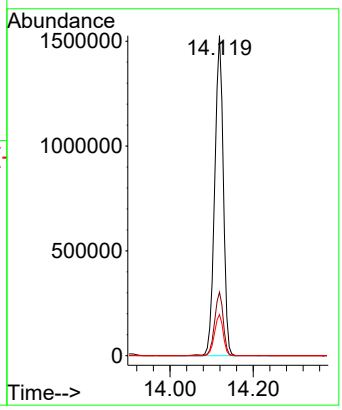


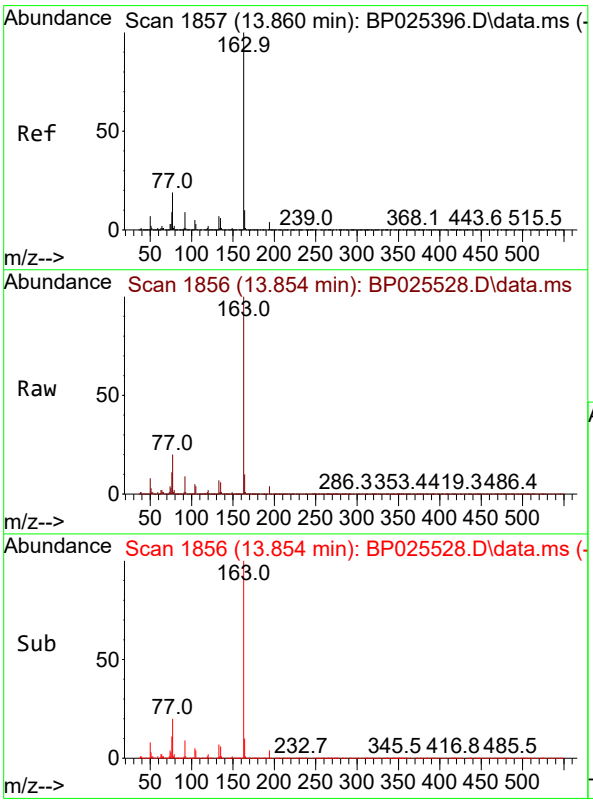
#49
Acenaphthylene
Concen: 39.943 ng
RT: 14.119 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:152 Resp: 2178041

Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.0	24.0
153	12.9	10.6	15.8

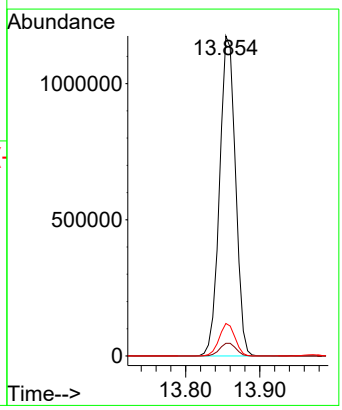


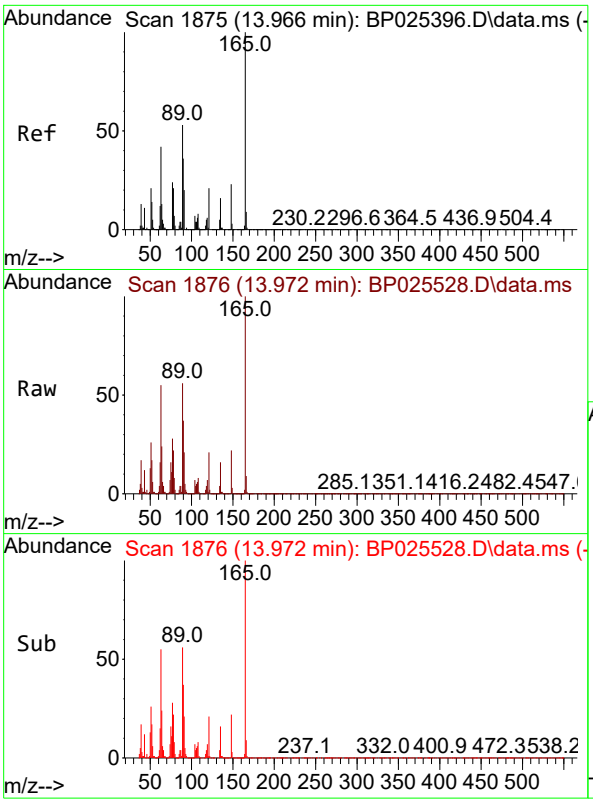


#50
Dimethylphthalate
Concen: 41.027 ng
RT: 13.854 min Scan# 1856
Delta R.T. -0.006 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Tgt Ion:163 Resp: 1751072

Ion	Ratio	Lower	Upper
163	100		
194	4.0	3.4	5.0
164	10.1	7.9	11.9



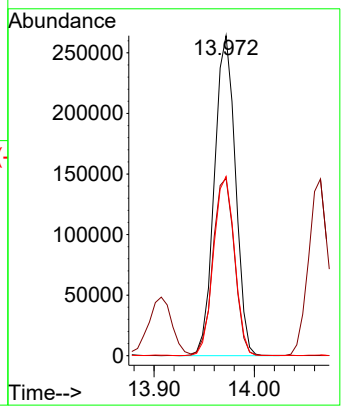


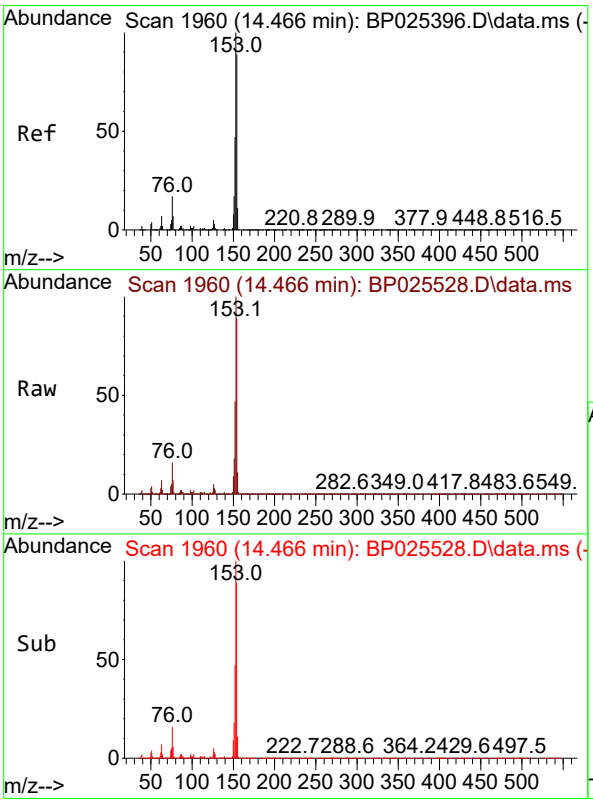
#51
2,6-Dinitrotoluene
Concen: 42.738 ng
RT: 13.972 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:165 Resp: 384470

Ion	Ratio	Lower	Upper
165	100		
63	55.4	40.9	61.3
89	56.0	42.1	63.1

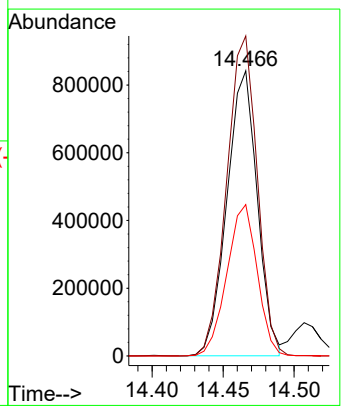


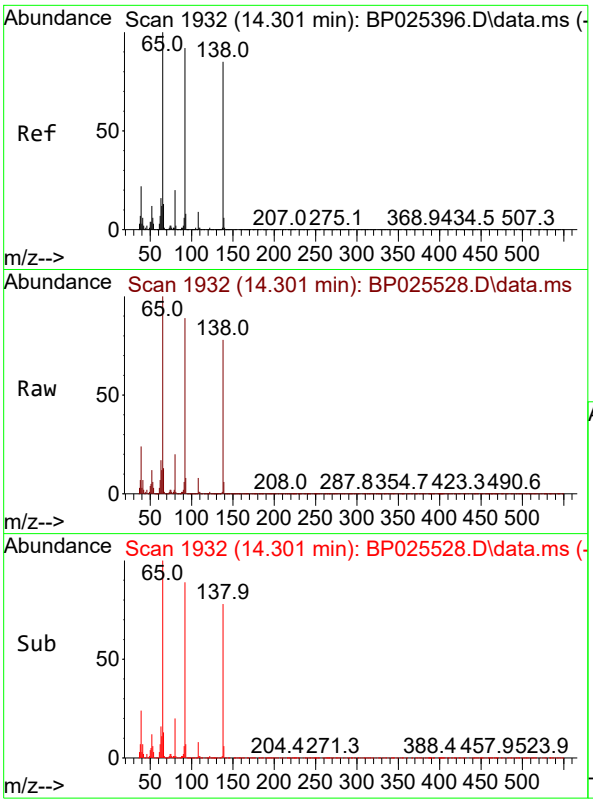


#52
Acenaphthene
Concen: 39.164 ng
RT: 14.466 min Scan# 1960
Delta R.T. 0.000 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Tgt Ion:154 Resp: 1253527

Ion	Ratio	Lower	Upper
154	100		
153	112.2	90.2	135.2
152	53.1	42.1	63.1



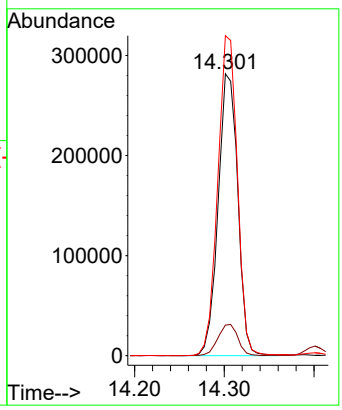


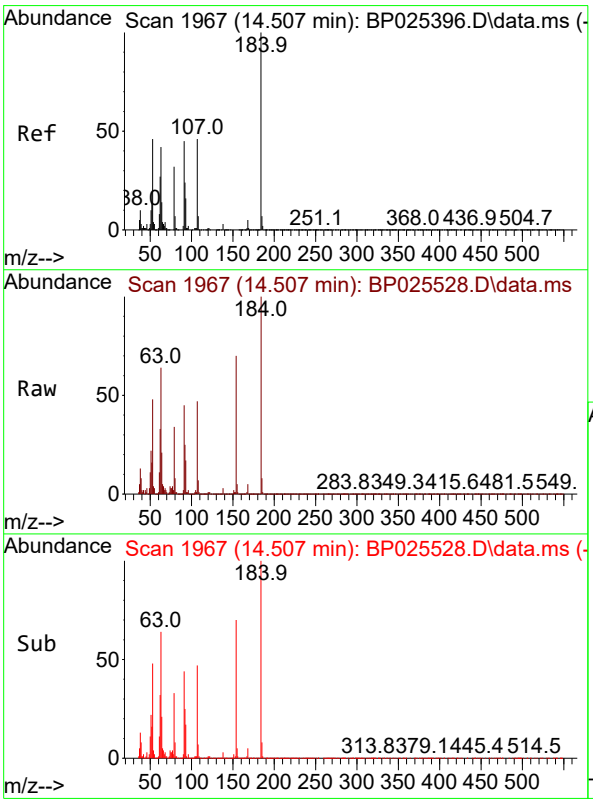
#53
3-Nitroaniline
Concen: 42.321 ng
RT: 14.301 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:138 Resp: 428348

Ion	Ratio	Lower	Upper
138	100		
108	10.8	8.3	12.5
92	113.5	86.2	129.2

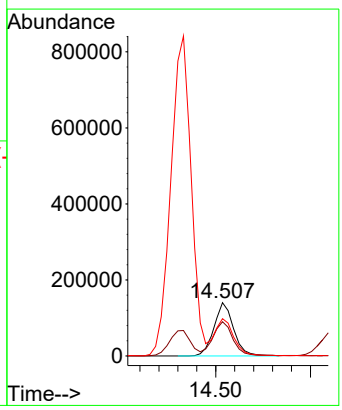


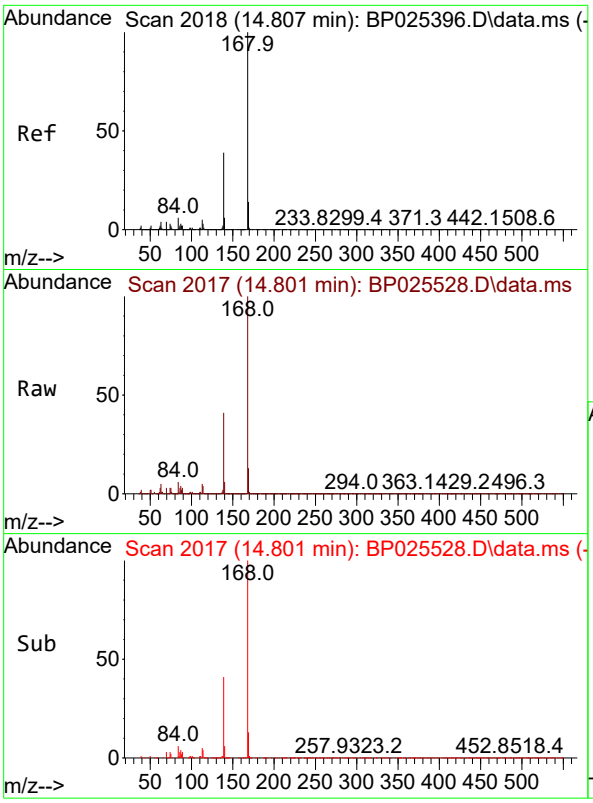


#54
2,4-Dinitrophenol
Concen: 42.191 ng
RT: 14.507 min Scan# 1967
Delta R.T. 0.000 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Tgt Ion:184 Resp: 202691

Ion	Ratio	Lower	Upper
184	100		
63	64.3	49.4	74.2
154	70.0	54.6	82.0



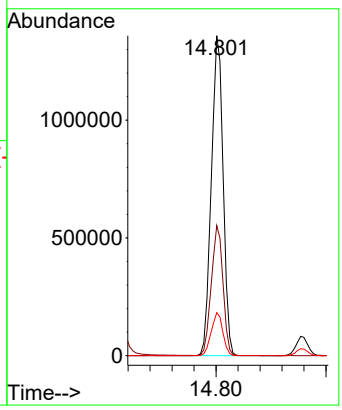


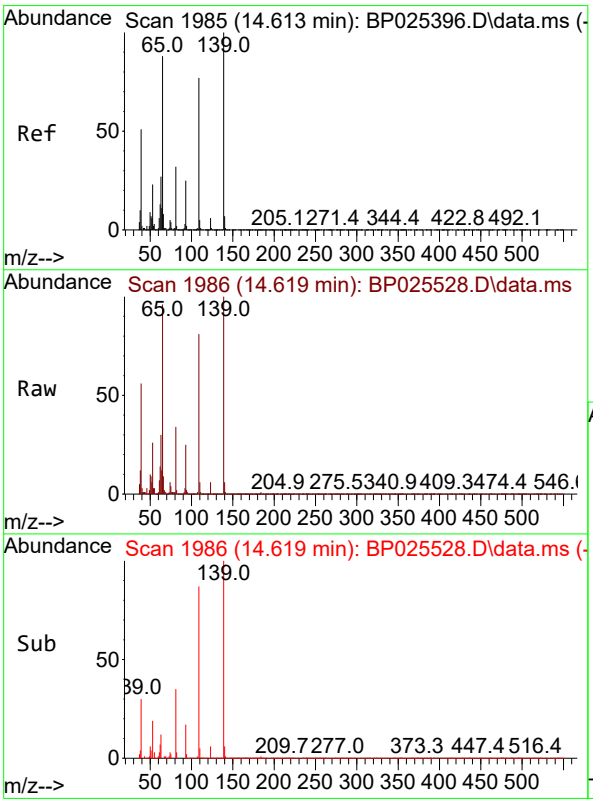
#55
Dibenzofuran
Concen: 39.925 ng
RT: 14.801 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:168 Resp: 2020338

Ion	Ratio	Lower	Upper
168	100		
139	40.7	31.5	47.3
169	13.4	10.9	16.3

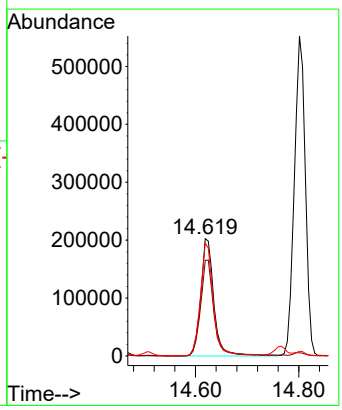


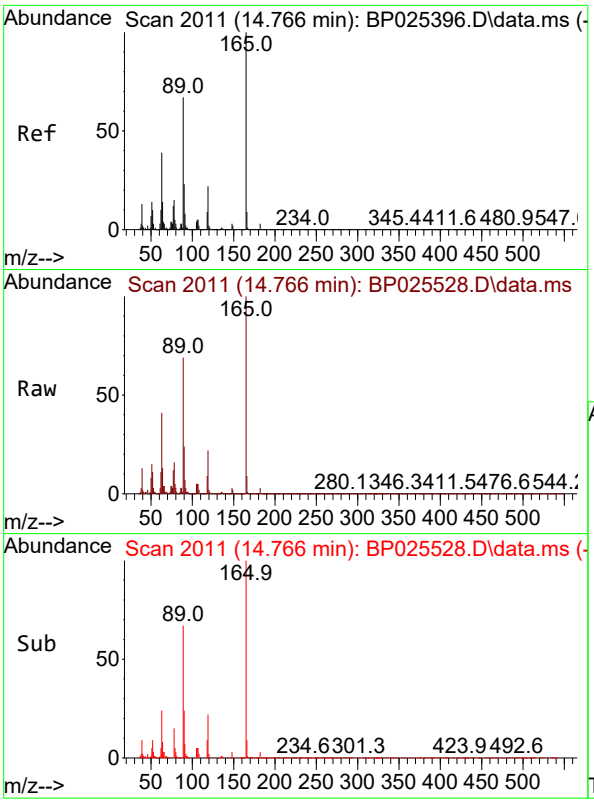


#56
4-Nitrophenol
Concen: 43.033 ng
RT: 14.619 min Scan# 1986
Delta R.T. 0.006 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Tgt Ion:139 Resp: 357906

Ion	Ratio	Lower	Upper
139	100		
109	81.5	56.6	96.6
65	96.1	68.2	108.2



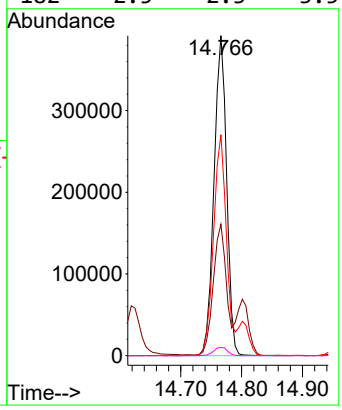


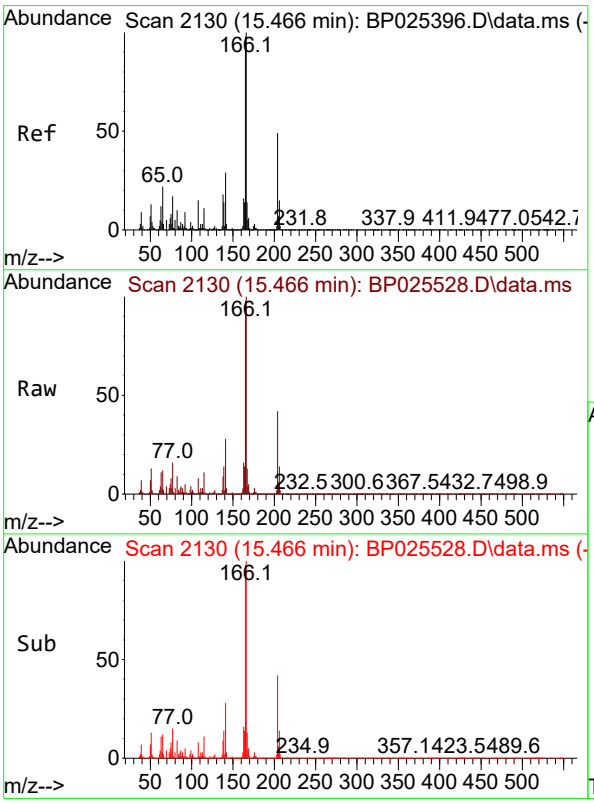
#57
2,4-Dinitrotoluene
Concen: 43.783 ng
RT: 14.766 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:165 Resp: 561949

Ion	Ratio	Lower	Upper
165	100		
63	41.0	31.4	47.2
89	69.0	53.3	79.9
182	2.5	2.3	3.5

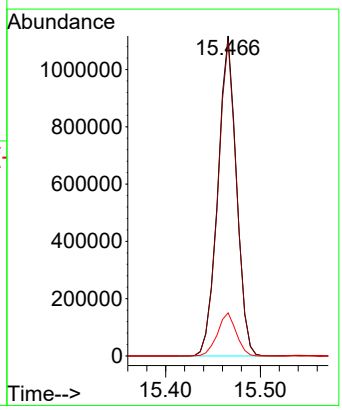


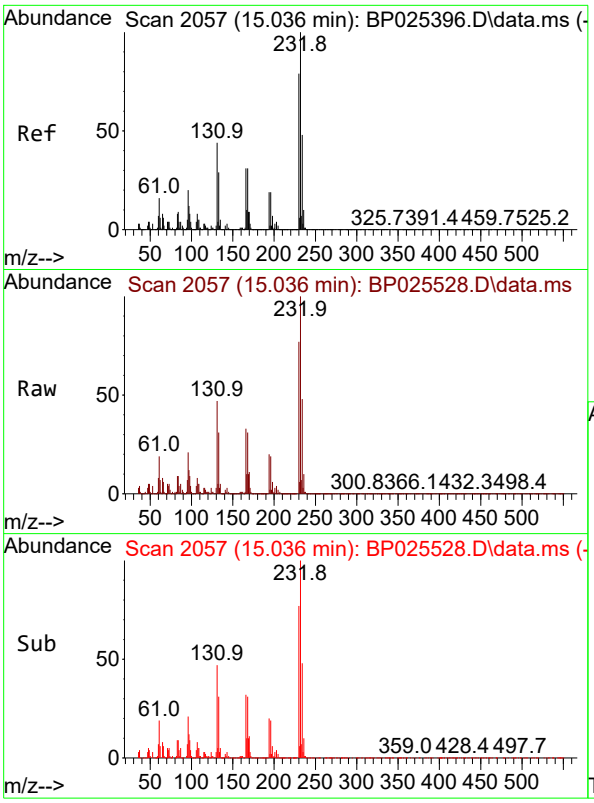


#58
Fluorene
Concen: 38.298 ng
RT: 15.466 min Scan# 2130
Delta R.T. 0.000 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Tgt Ion:166 Resp: 1529223

Ion	Ratio	Lower	Upper
166	100		
165	98.5	78.8	118.2
167	13.4	11.0	16.4



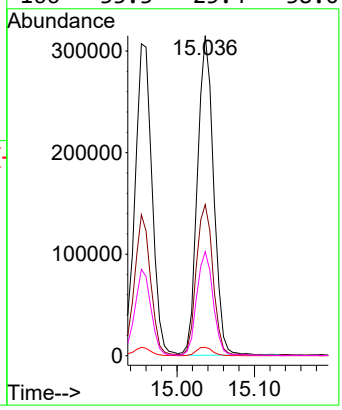


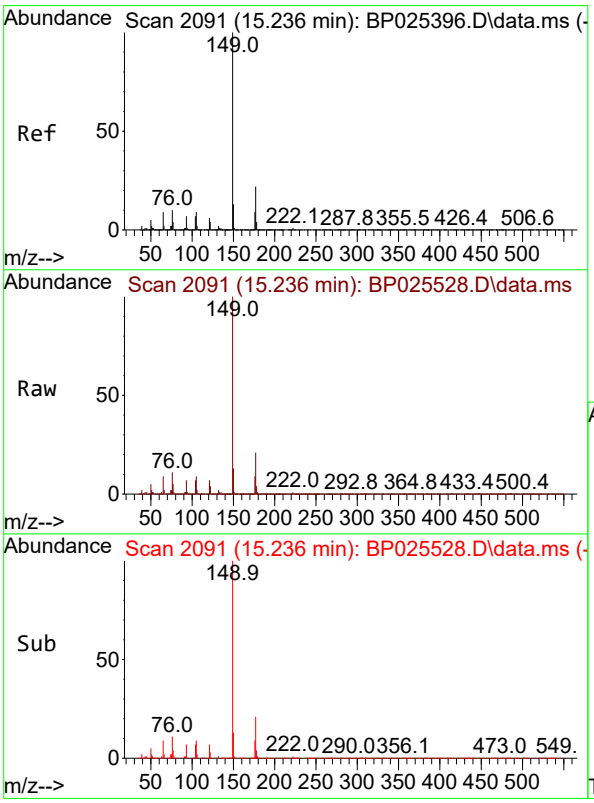
#59
2,3,4,6-Tetrachlorophenol
Concen: 41.403 ng
RT: 15.036 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:232 Resp: 455330

Ion	Ratio	Lower	Upper
232	100		
131	48.9	37.0	55.6
130	2.7	1.9	2.9
166	33.3	25.4	38.0

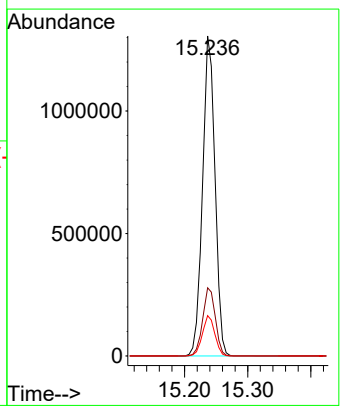


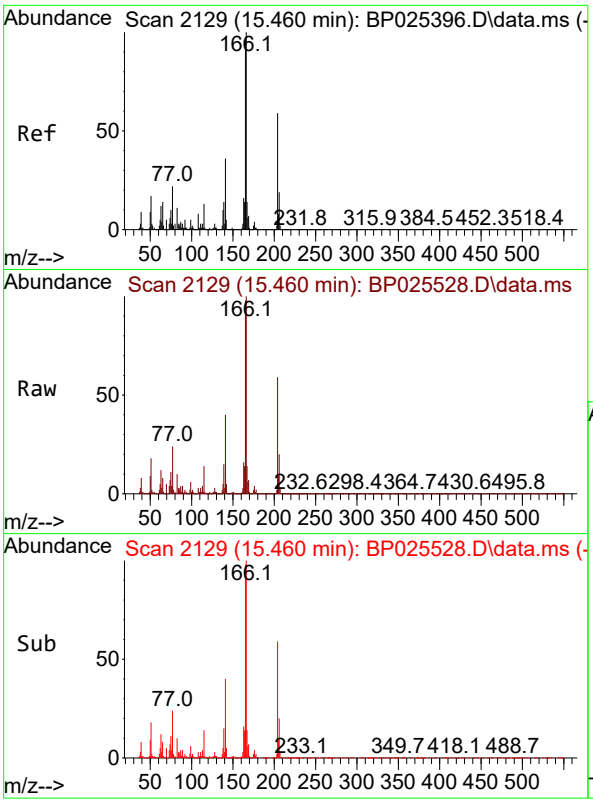


#60
Diethylphthalate
Concen: 41.343 ng
RT: 15.236 min Scan# 2091
Delta R.T. 0.000 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Tgt Ion:149 Resp: 1793007

Ion	Ratio	Lower	Upper
149	100		
177	21.3	17.3	25.9
150	12.6	10.3	15.5



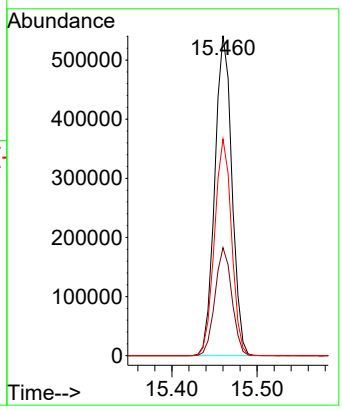


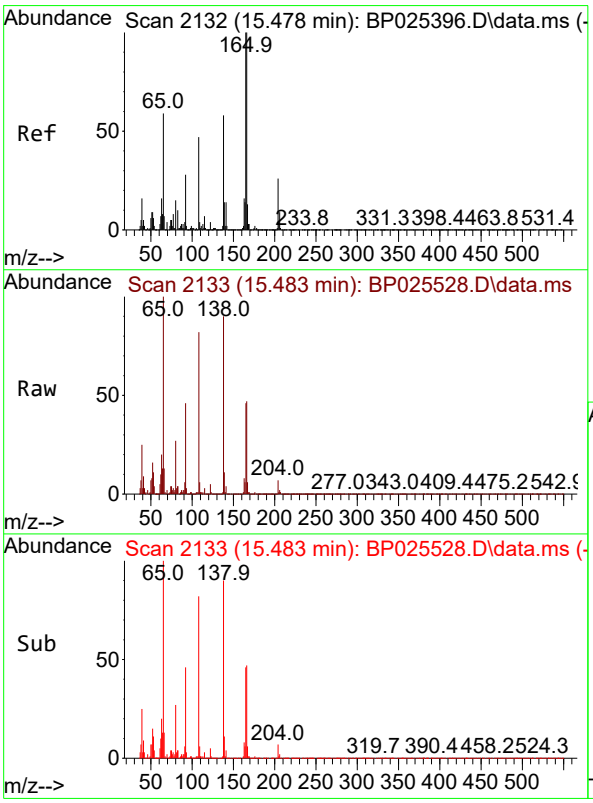
#61
4-Chlorophenyl-phenylether
Concen: 38.031 ng
RT: 15.460 min Scan# 21
Delta R.T. 0.000 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:204 Resp: 755243

Ion	Ratio	Lower	Upper
204	100		
206	33.7	25.8	38.8
141	67.7	49.4	74.2

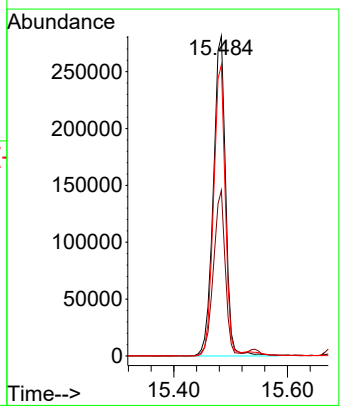


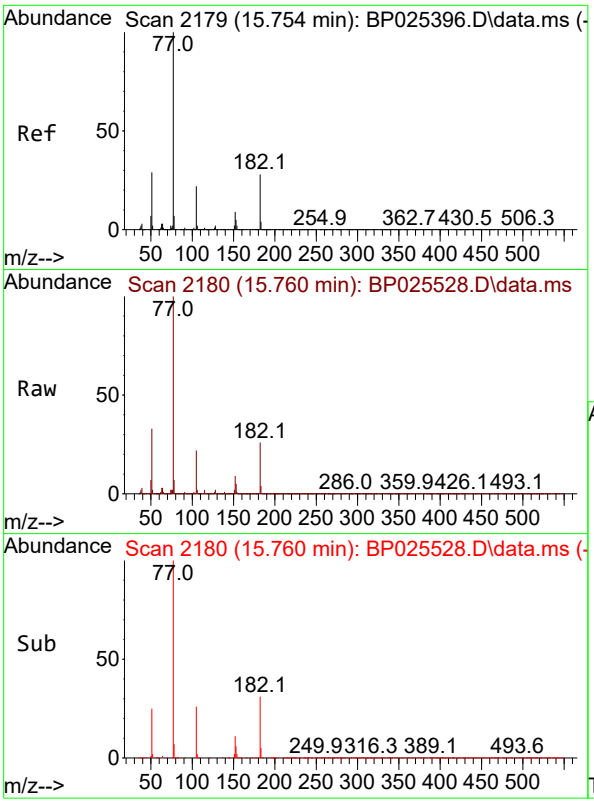


#62
4-Nitroaniline
Concen: 40.733 ng
RT: 15.483 min Scan# 2133
Delta R.T. 0.006 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Tgt Ion:138 Resp: 422646

Ion	Ratio	Lower	Upper
138	100		
92	51.7	29.1	69.1
108	91.0	61.5	101.5



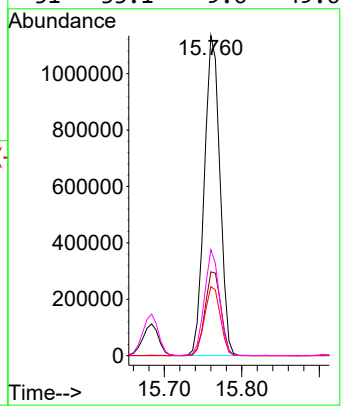


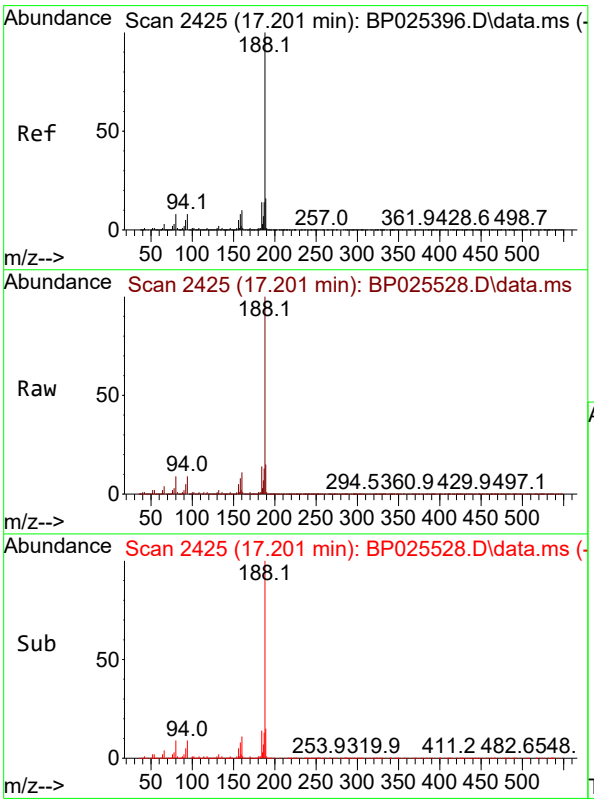
#63
Azobenzene
Concen: 42.575 ng
RT: 15.760 min Scan# 21
Delta R.T. 0.006 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion: 77 Resp: 1581016

Ion	Ratio	Lower	Upper
77	100		
182	26.2	7.5	47.5
105	21.6	2.1	42.1
51	33.1	9.6	49.6

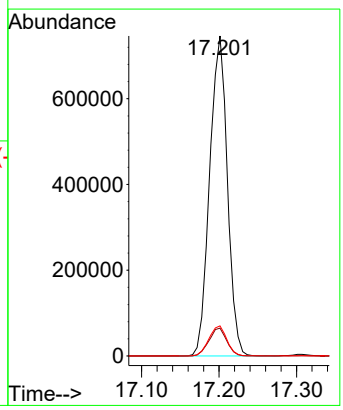


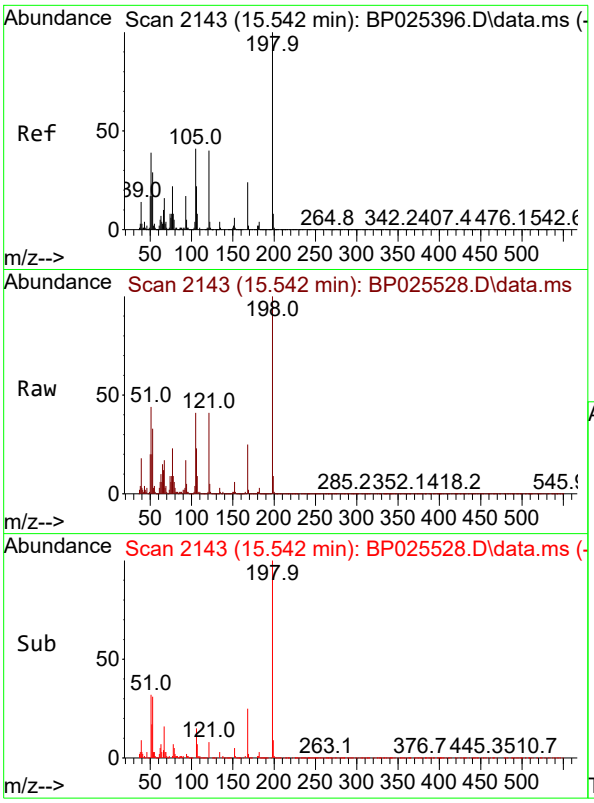


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.201 min Scan# 2425
Delta R.T. 0.000 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Tgt Ion:188 Resp: 1185139

Ion	Ratio	Lower	Upper
188	100		
94	8.7	6.6	10.0
80	9.4	6.7	10.1



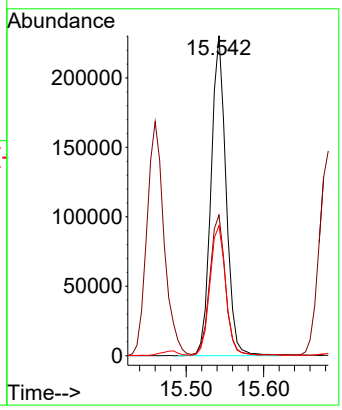


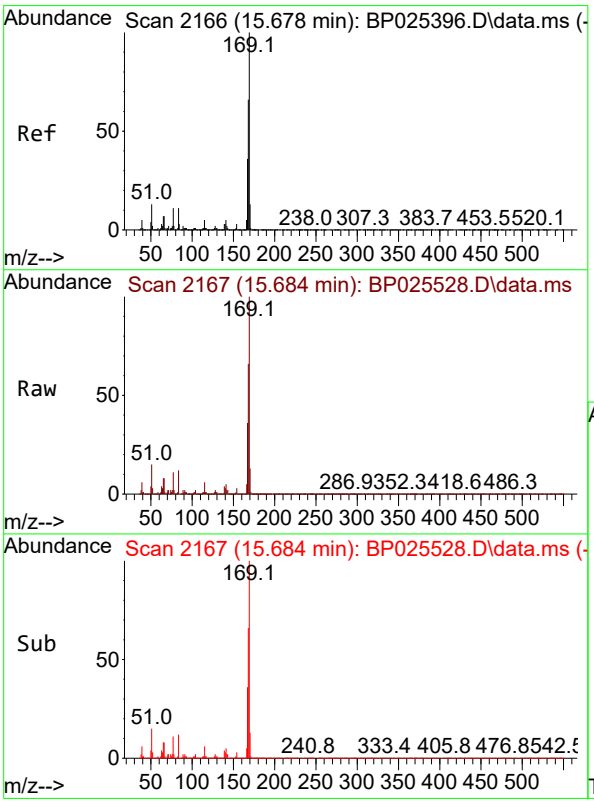
#65
4,6-Dinitro-2-methylphenol
Concen: 42.114 ng
RT: 15.542 min Scan# 21
Delta R.T. 0.000 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:198 Resp: 311124

Ion	Ratio	Lower	Upper
198	100		
51	43.9	19.6	59.6
105	40.6	20.9	60.9

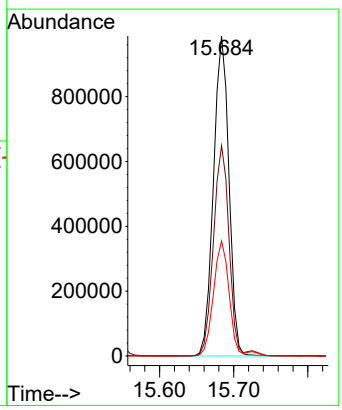


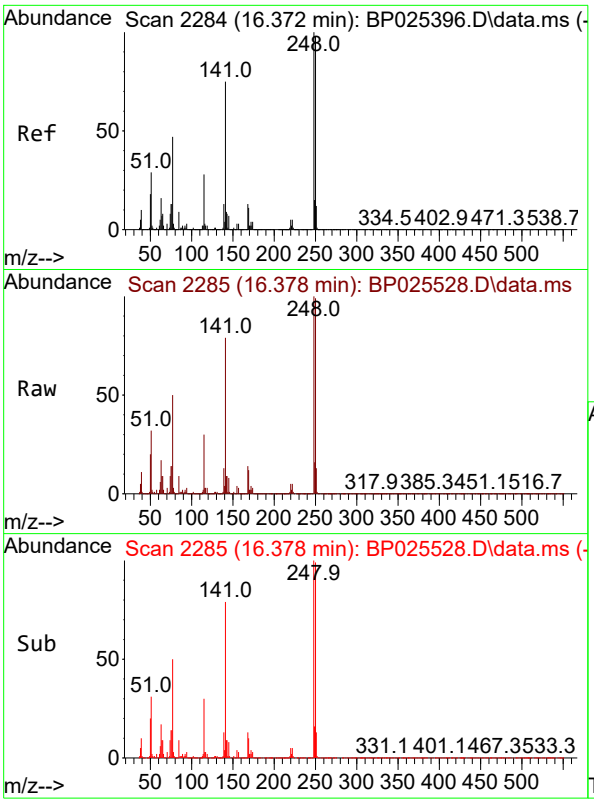


#66
n-Nitrosodiphenylamine
Concen: 39.423 ng
RT: 15.684 min Scan# 2167
Delta R.T. 0.006 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Tgt Ion:169 Resp: 1424731

Ion	Ratio	Lower	Upper
169	100		
168	65.7	53.2	79.8
167	36.0	28.7	43.1



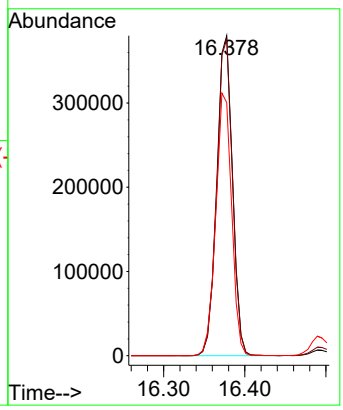


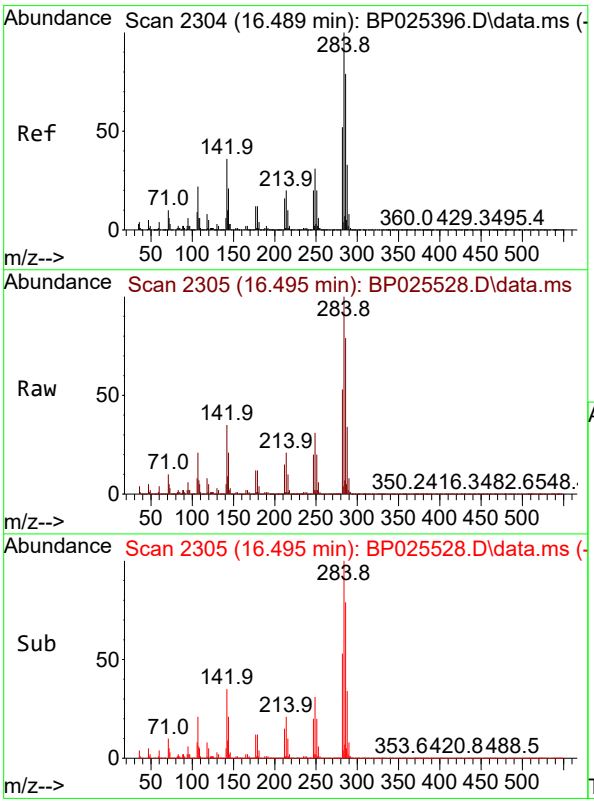
#67
4-Bromophenyl-phenylether
Concen: 39.453 ng
RT: 16.378 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:248 Resp: 514245

Ion	Ratio	Lower	Upper
248	100		
250	98.8	78.2	117.2
141	79.1	59.6	89.4

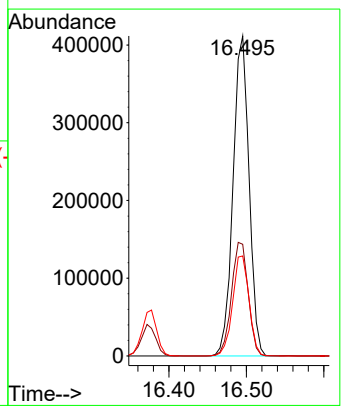


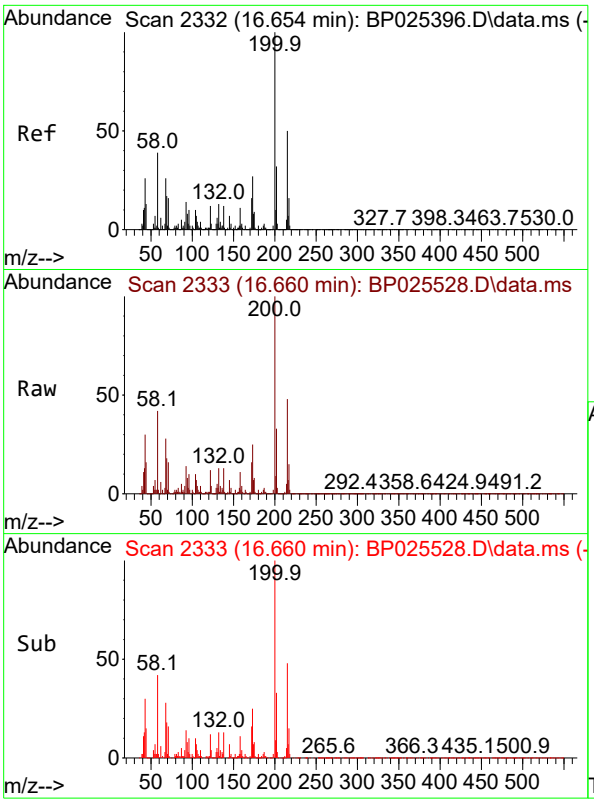


#68
Hexachlorobenzene
Concen: 39.143 ng
RT: 16.495 min Scan# 2305
Delta R.T. 0.006 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Tgt Ion:284 Resp: 591430

Ion	Ratio	Lower	Upper
284	100		
142	34.9	29.1	43.7
249	31.2	25.0	37.4



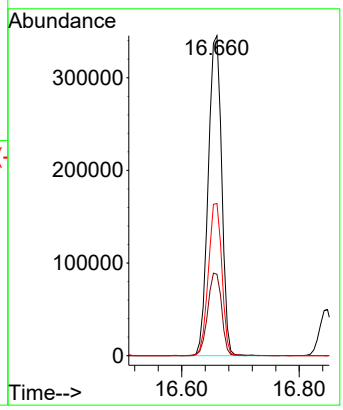


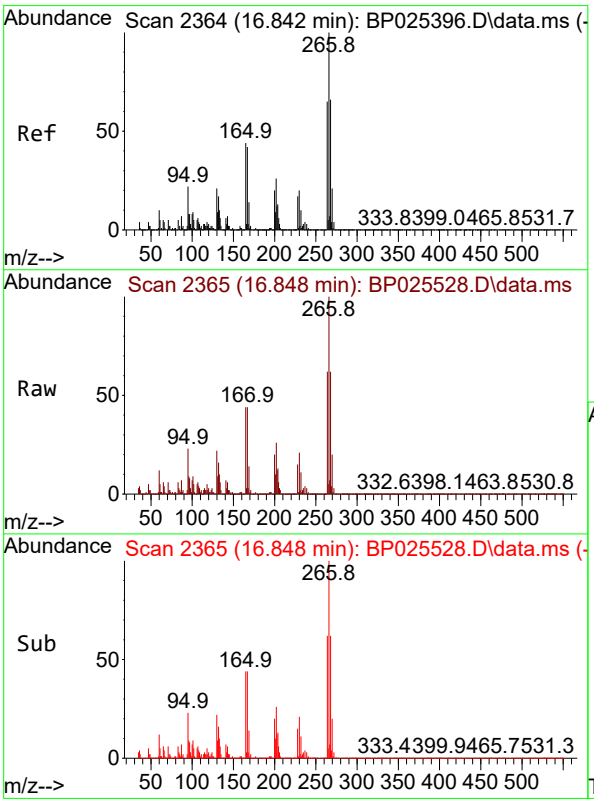
#69
Atrazine
Concen: 40.478 ng
RT: 16.660 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:200 Resp: 547846

Ion	Ratio	Lower	Upper
200	100		
173	25.4	6.7	46.7
215	47.5	29.7	69.7

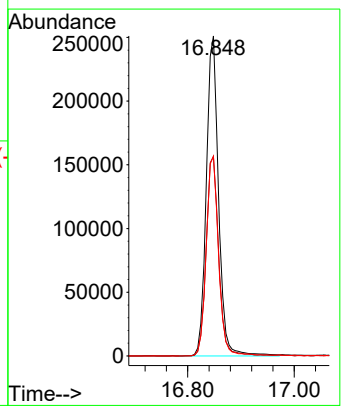


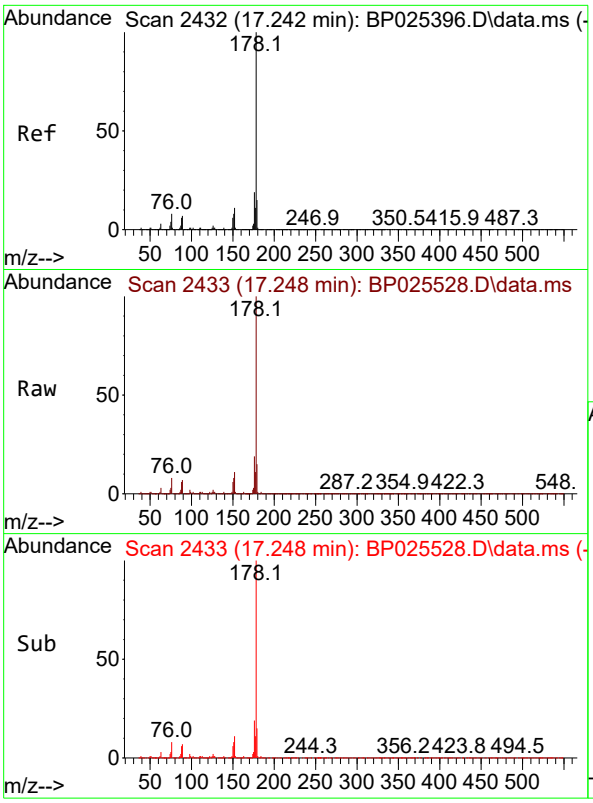


#70
Pentachlorophenol
Concen: 42.093 ng
RT: 16.848 min Scan# 2365
Delta R.T. 0.006 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Tgt Ion:266 Resp: 401483

Ion	Ratio	Lower	Upper
266	100		
268	62.3	52.6	79.0
264	62.4	52.0	78.0



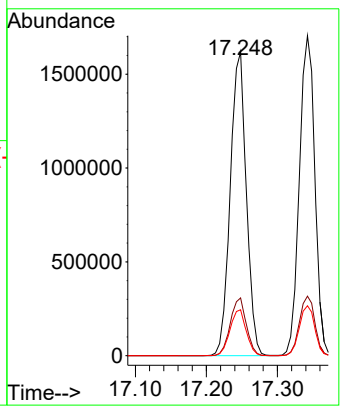


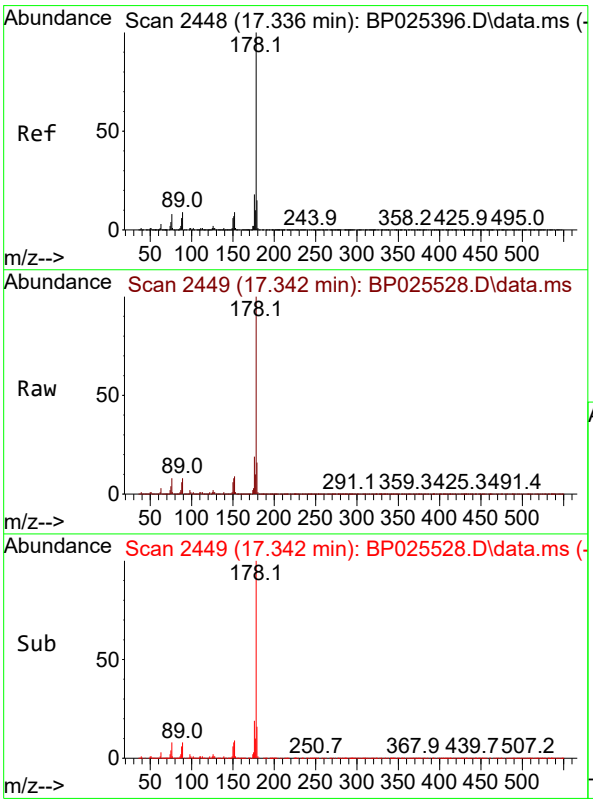
#71
Phenanthrene
Concen: 39.098 ng
RT: 17.248 min Scan# 24
Delta R.T. 0.006 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:178 Resp: 2545441

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.5	23.3
179	15.1	12.2	18.4

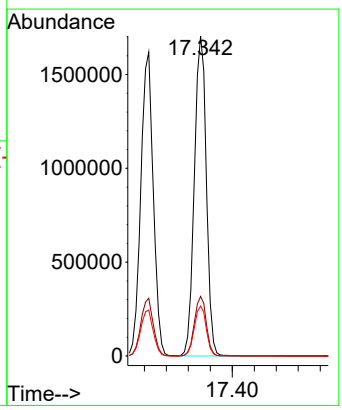


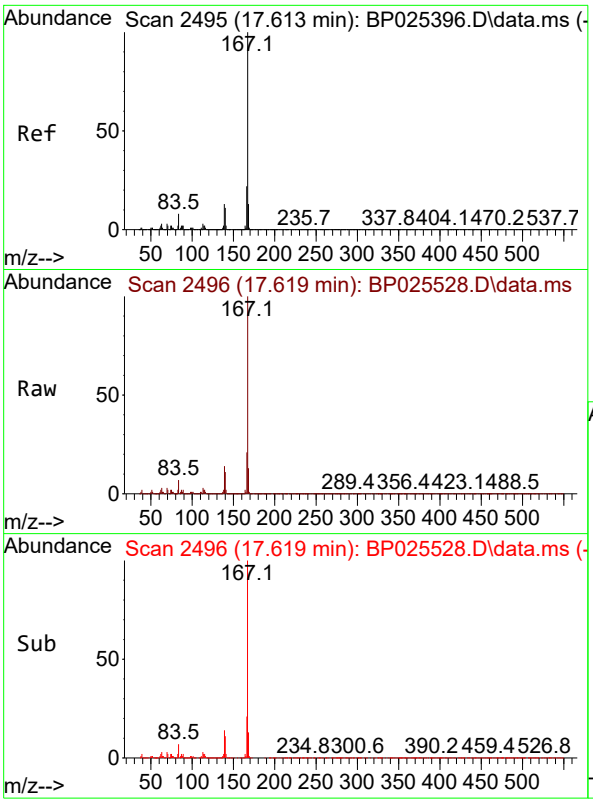


#72
Anthracene
Concen: 38.766 ng
RT: 17.342 min Scan# 2449
Delta R.T. 0.006 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Tgt Ion:178 Resp: 2577328

Ion	Ratio	Lower	Upper
178	100		
176	18.6	14.7	22.1
179	15.6	12.2	18.2



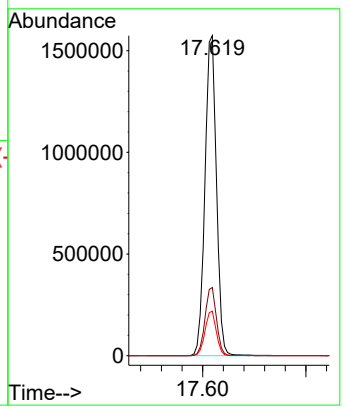


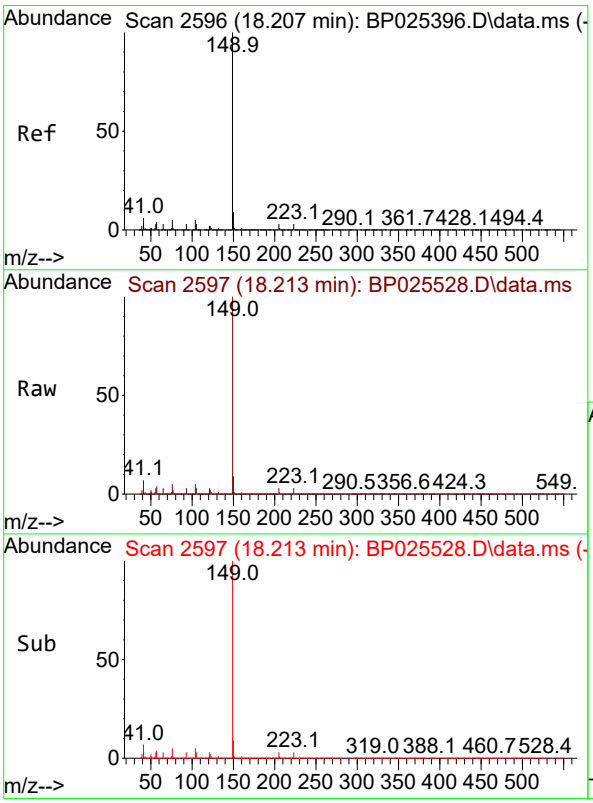
#73
Carbazole
Concen: 38.750 ng
RT: 17.619 min Scan# 24
Delta R.T. 0.006 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:167 Resp: 2426628

Ion	Ratio	Lower	Upper
167	100		
166	21.3	17.5	26.3
139	13.9	10.6	16.0

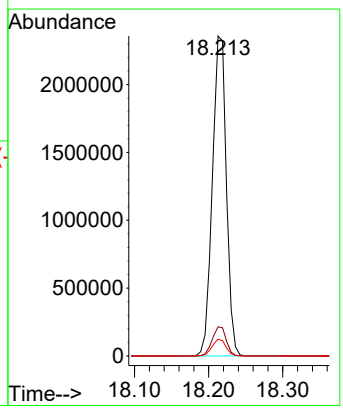


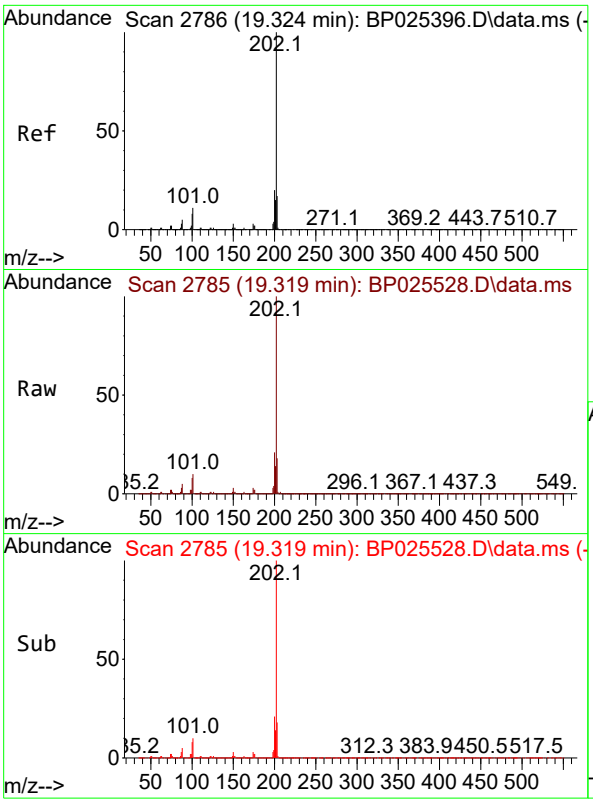


#74
Di-n-butylphthalate
Concen: 40.043 ng
RT: 18.213 min Scan# 2597
Delta R.T. 0.006 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Tgt Ion:149 Resp: 3085121

Ion	Ratio	Lower	Upper
149	100		
150	9.1	7.4	11.0
104	5.2	4.2	6.2



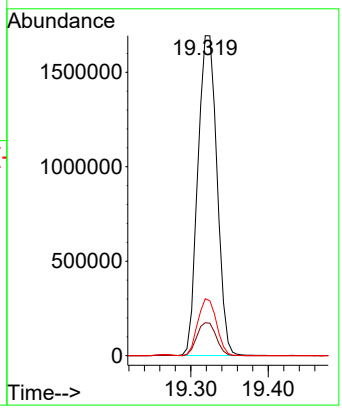


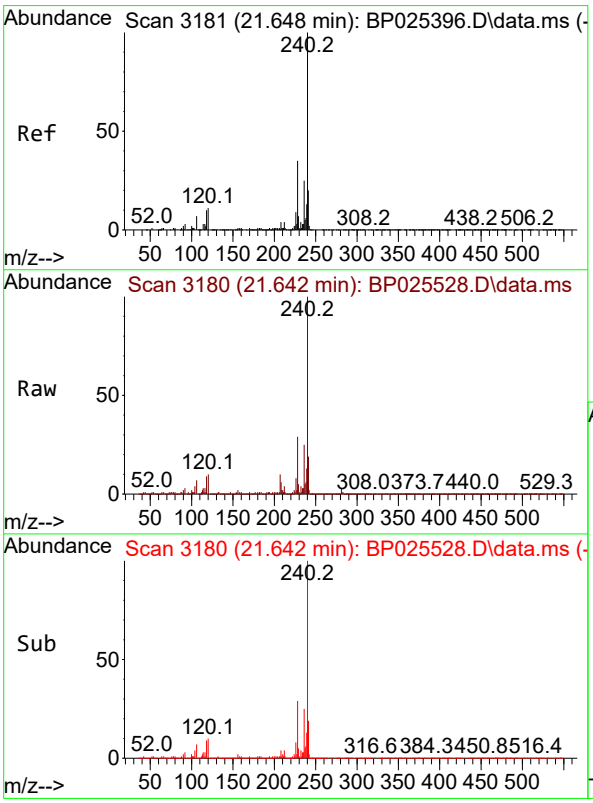
#75
Fluoranthene
Concen: 37.289 ng
RT: 19.319 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:202 Resp: 2895789

Ion	Ratio	Lower	Upper
202	100		
101	10.3	0.0	31.1
203	17.8	0.0	37.3

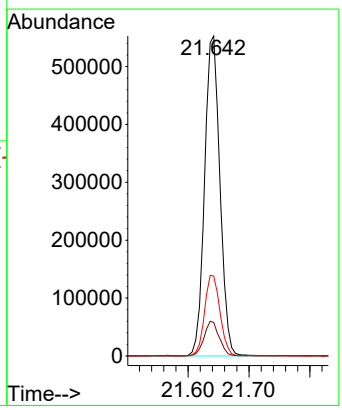


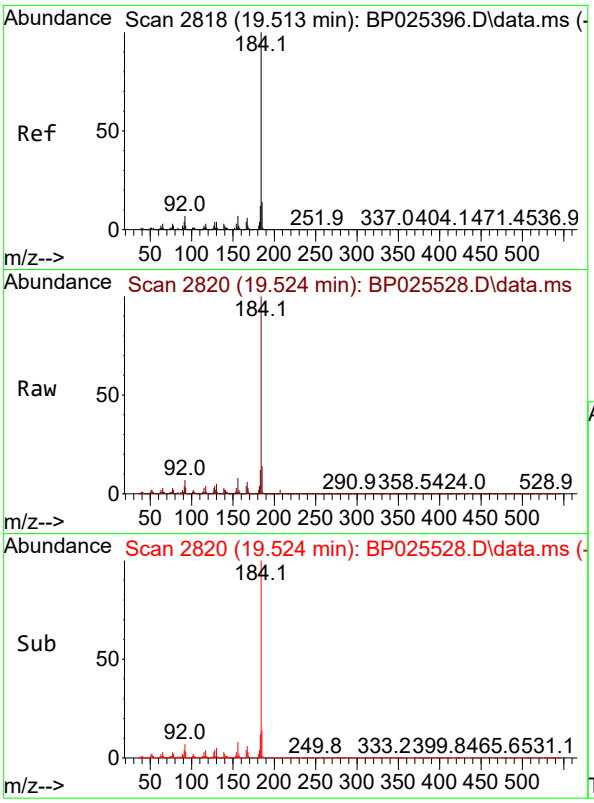


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.642 min Scan# 3180
Delta R.T. -0.006 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Tgt Ion:240 Resp: 966898

Ion	Ratio	Lower	Upper
240	100		
120	10.5	8.9	13.3
236	25.0	19.8	29.8



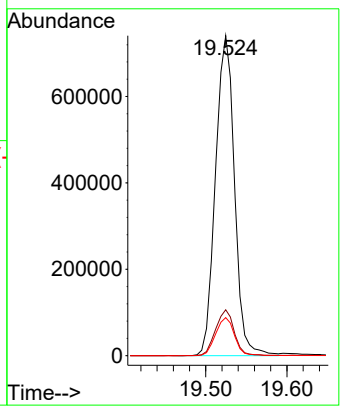


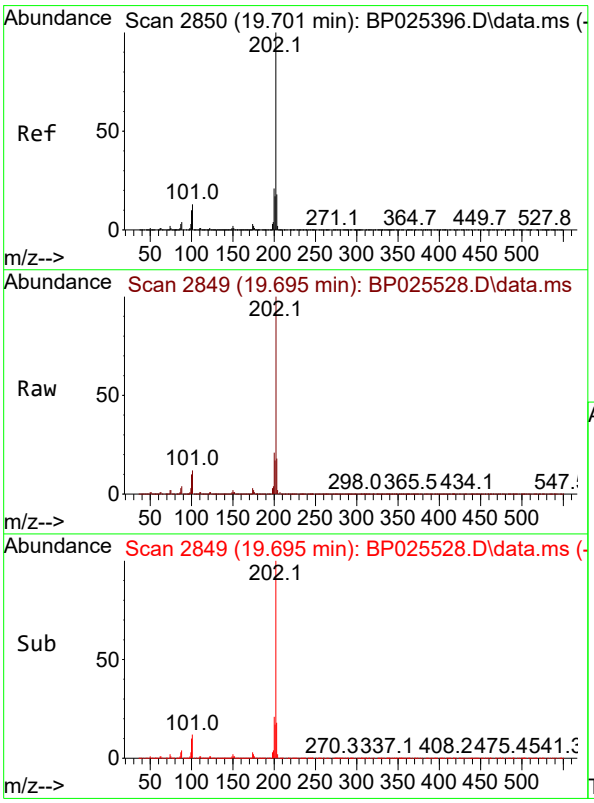
#77
Benzidine
Concen: 36.563 ng
RT: 19.524 min Scan# 2
Delta R.T. 0.012 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:184 Resp: 1206527

Ion	Ratio	Lower	Upper
184	100		
185	14.3	11.5	17.3
183	11.9	9.4	14.2

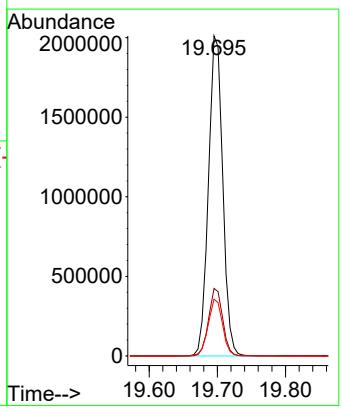


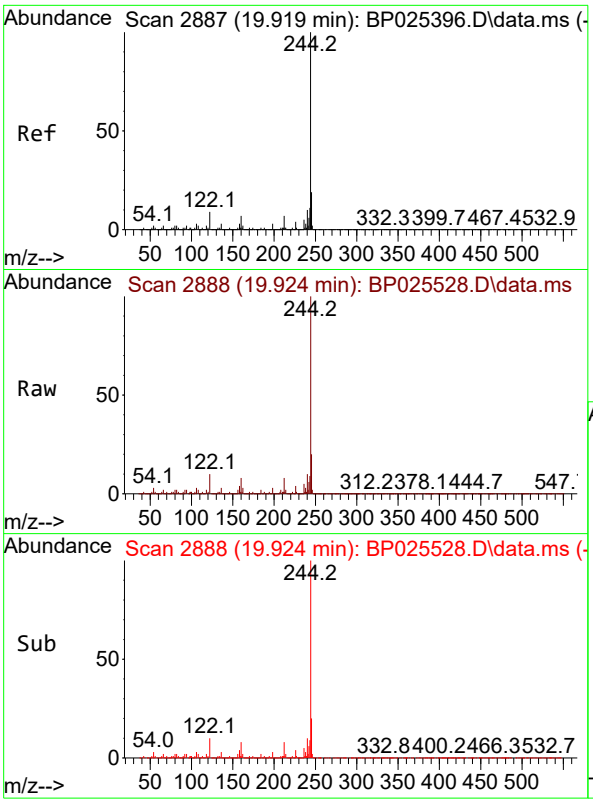


#78
Pyrene
Concen: 46.678 ng
RT: 19.695 min Scan# 2849
Delta R.T. -0.006 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Tgt Ion:202 Resp: 2933533

Ion	Ratio	Lower	Upper
202	100		
200	21.1	16.9	25.3
203	17.7	14.2	21.2



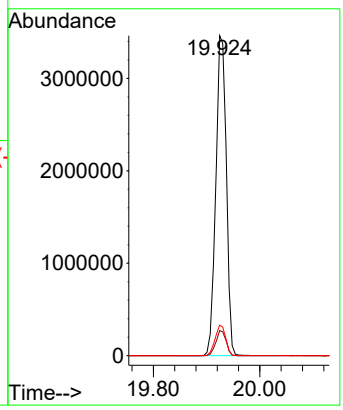


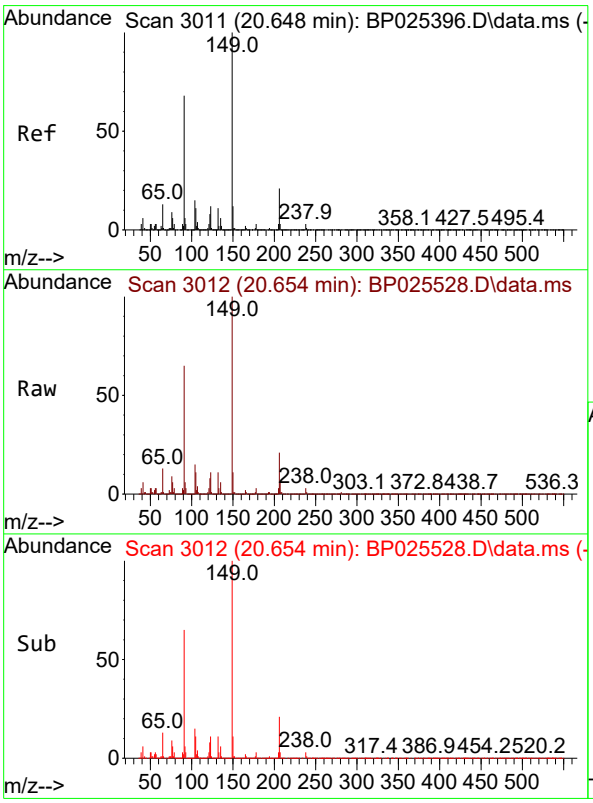
#79
Terphenyl-d14
Concen: 89.549 ng
RT: 19.924 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:244 Resp: 4732498

Ion	Ratio	Lower	Upper
244	100		
212	7.9	5.8	8.6
122	9.6	7.4	11.2

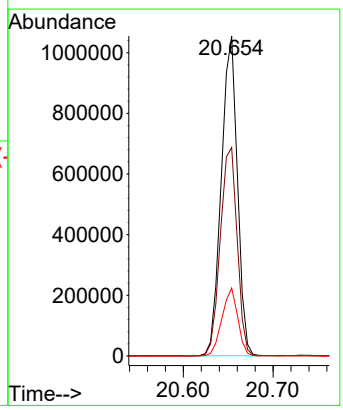


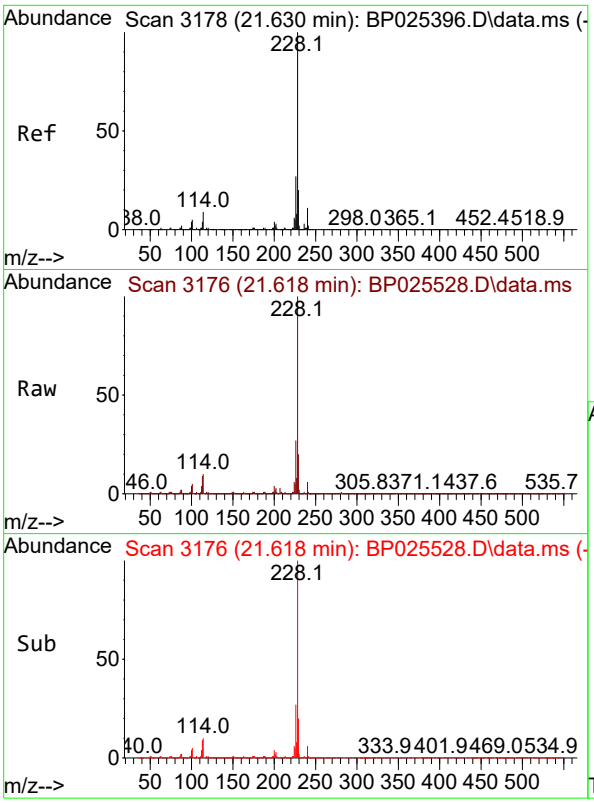


#80
Butylbenzylphthalate
Concen: 46.209 ng
RT: 20.654 min Scan# 3012
Delta R.T. 0.006 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Tgt Ion:149 Resp: 1316128

Ion	Ratio	Lower	Upper
149	100		
91	65.1	54.2	81.2
206	21.2	16.6	24.8



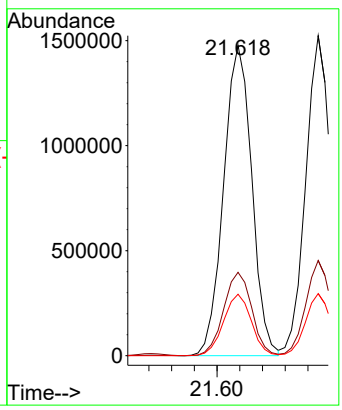


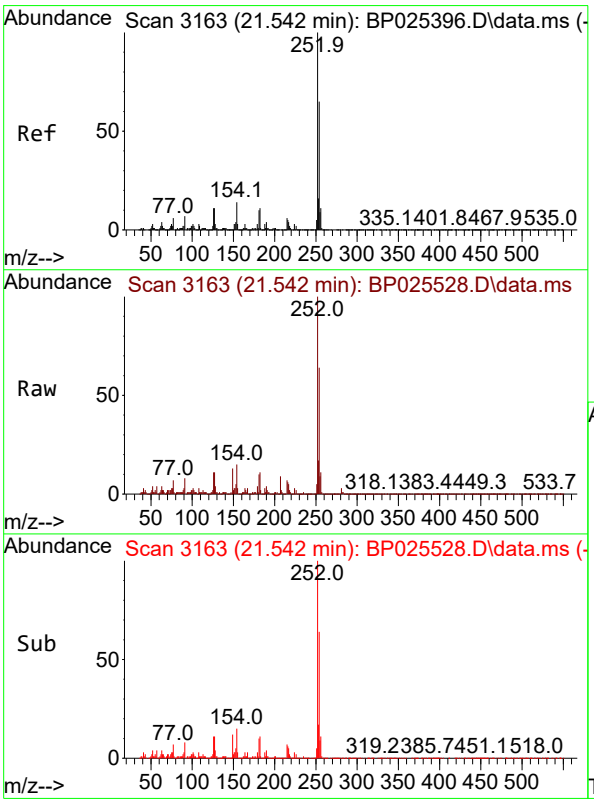
#81
Benzo(a)anthracene
Concen: 39.933 ng
RT: 21.618 min Scan# 3
Delta R.T. -0.012 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:228 Resp: 2546412

Ion	Ratio	Lower	Upper
228	100		
226	26.9	21.7	32.5
229	19.8	15.6	23.4

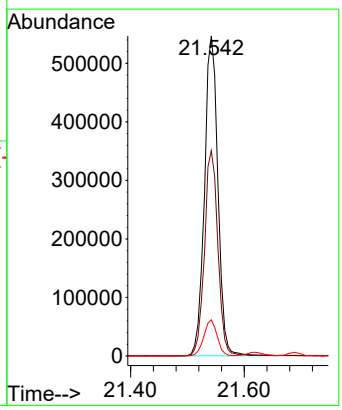


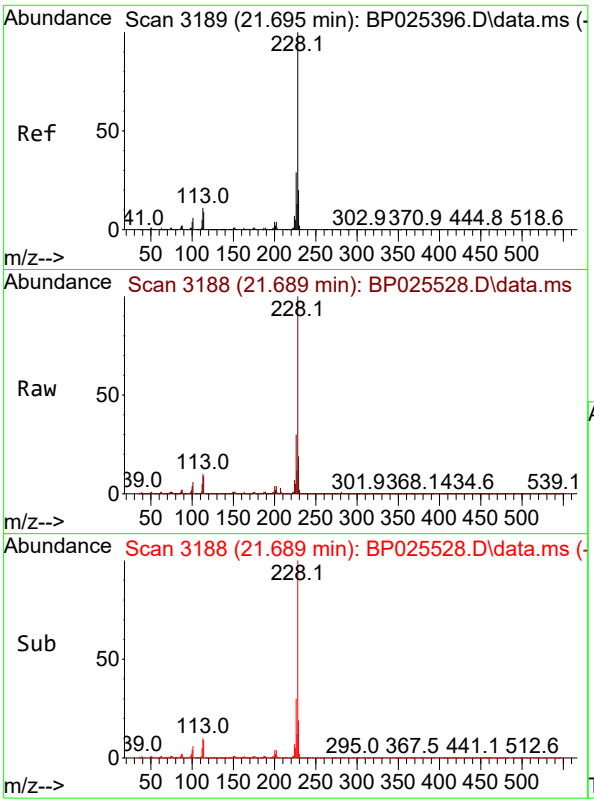


#82
3,3'-Dichlorobenzidine
Concen: 37.227 ng
RT: 21.542 min Scan# 3163
Delta R.T. 0.000 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Tgt Ion:252 Resp: 894776

Ion	Ratio	Lower	Upper
252	100		
254	64.2	51.8	77.6
126	11.3	9.1	13.7



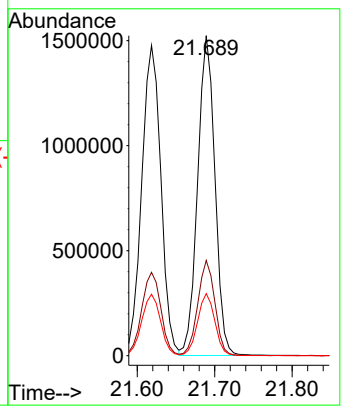


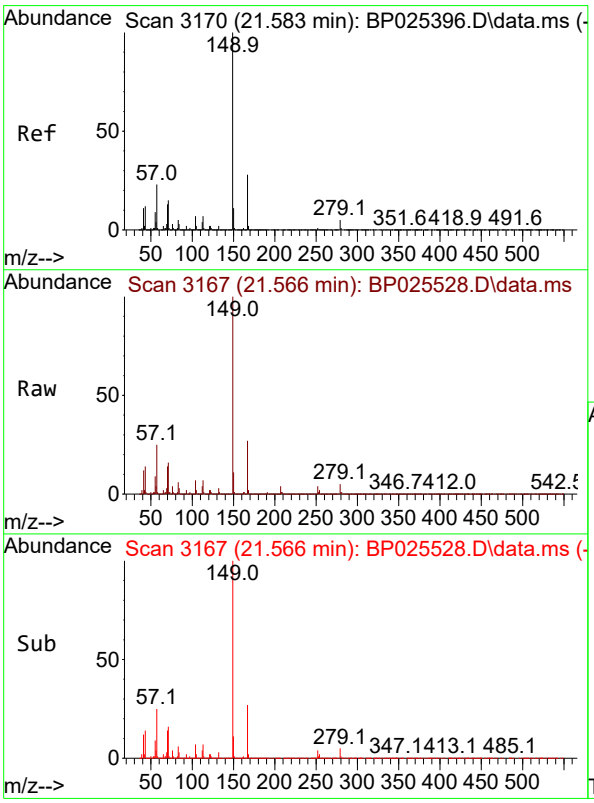
#83
Chrysene
Concen: 39.504 ng
RT: 21.689 min Scan# 3
Delta R.T. -0.006 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:228 Resp: 2359088

Ion	Ratio	Lower	Upper
228	100		
226	29.8	23.2	34.8
229	19.4	15.6	23.4

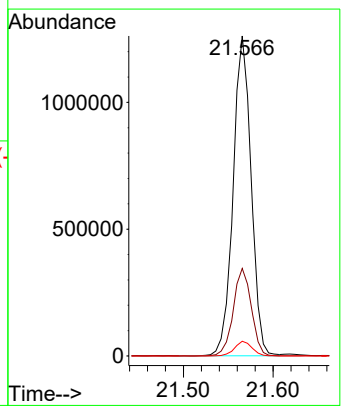


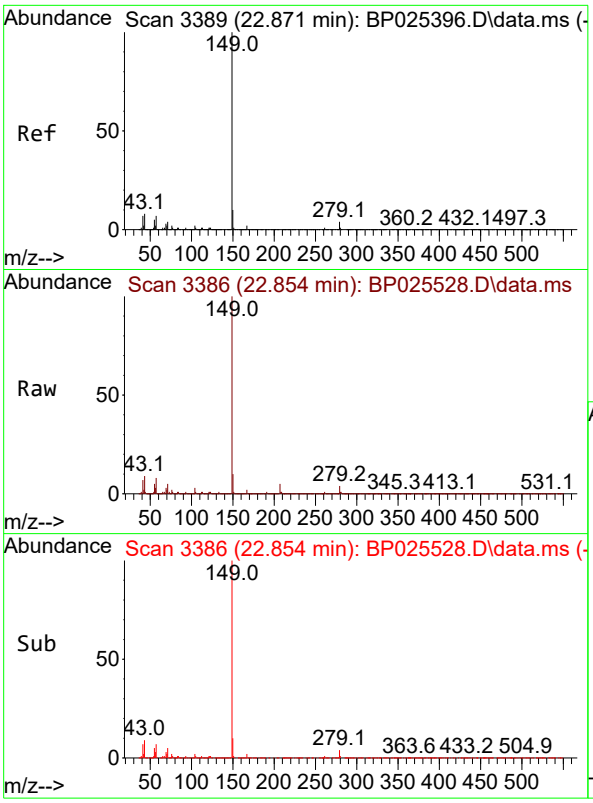


#84
Bis(2-ethylhexyl)phthalate
Concen: 41.878 ng
RT: 21.566 min Scan# 3167
Delta R.T. -0.018 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Tgt Ion:149 Resp: 1755836

Ion	Ratio	Lower	Upper
149	100		
167	27.4	22.1	33.1
279	4.6	3.8	5.6



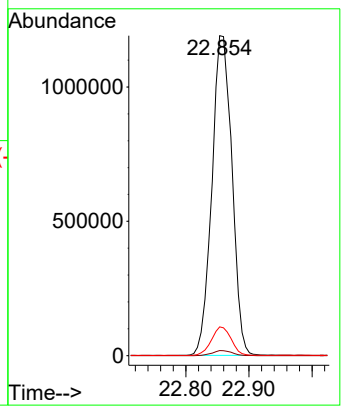


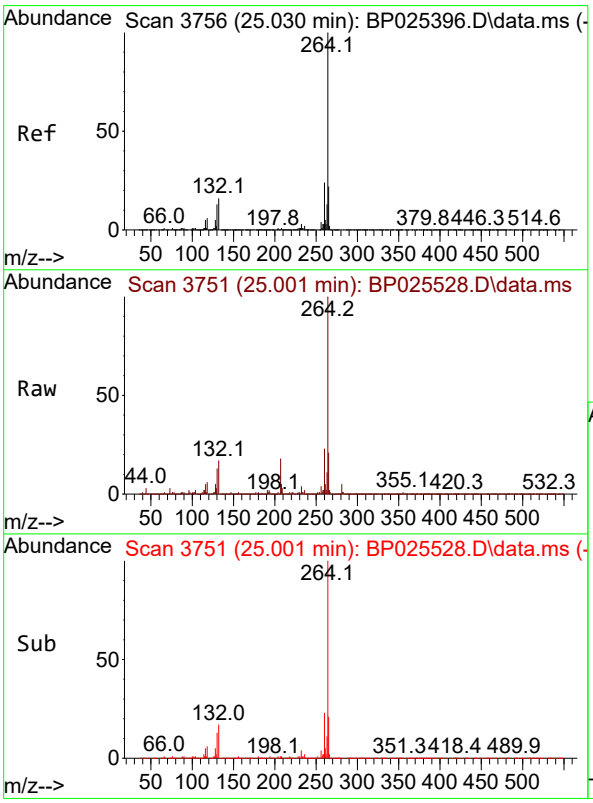
#85
Di-n-octyl phthalate
Concen: 36.401 ng
RT: 22.854 min Scan# 3
Delta R.T. -0.018 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:149 Resp: 2625098

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	8.7	6.3	9.5

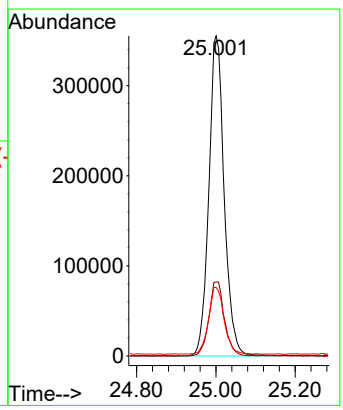


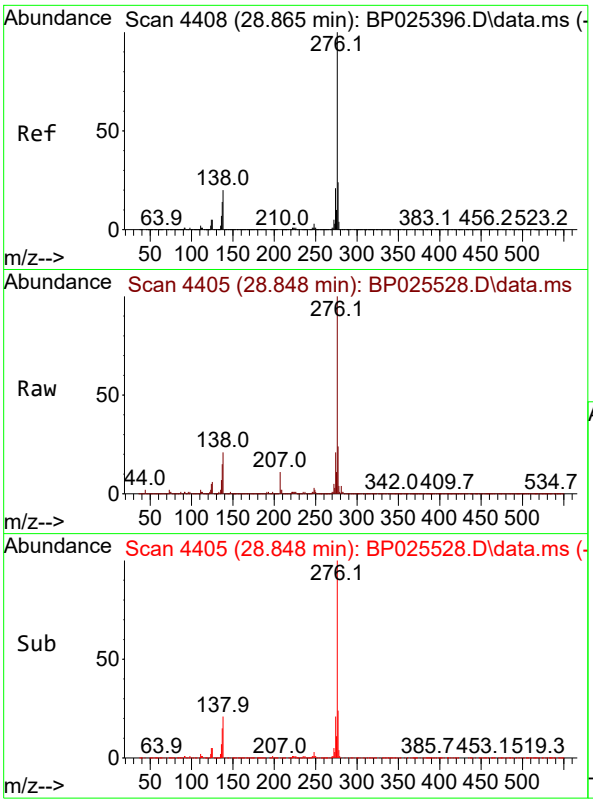


#86
Perylene-d12
Concen: 20.000 ng
RT: 25.001 min Scan# 3751
Delta R.T. -0.029 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Tgt Ion:264 Resp: 954709

Ion	Ratio	Lower	Upper
264	100		
260	23.1	19.3	28.9
265	21.4	17.4	26.0



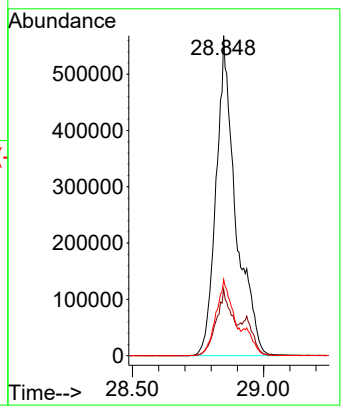


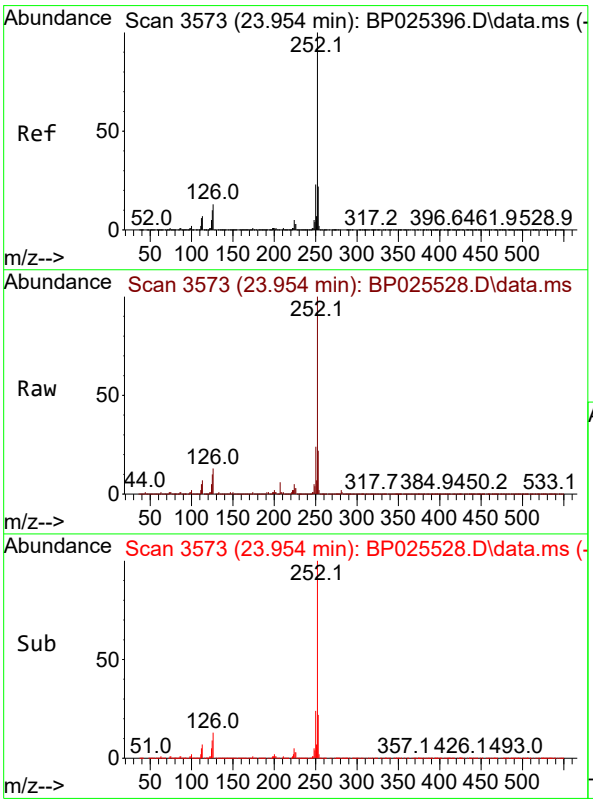
#87
Indeno(1,2,3-cd)pyrene
Concen: 42.143 ng
RT: 28.848 min Scan# 4
Delta R.T. -0.018 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:276 Resp: 2950656

Ion	Ratio	Lower	Upper
276	100		
138	16.7	12.9	19.3
277	20.6	17.0	25.6

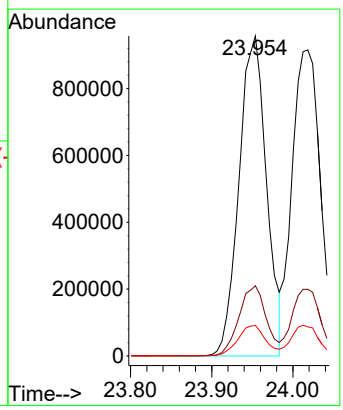


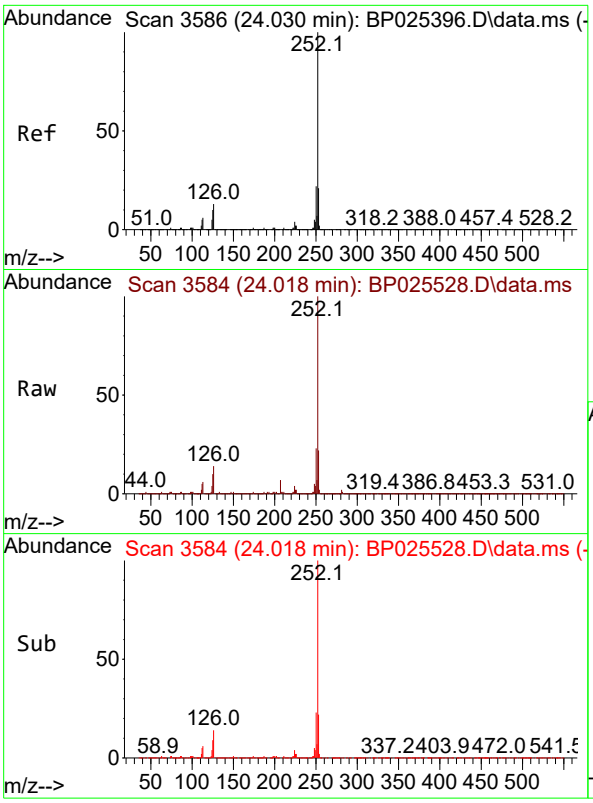


#88
Benzo(b)fluoranthene
Concen: 39.965 ng
RT: 23.954 min Scan# 3573
Delta R.T. 0.000 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Tgt Ion:252 Resp: 2249885

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.7	26.5
125	9.5	7.9	11.9



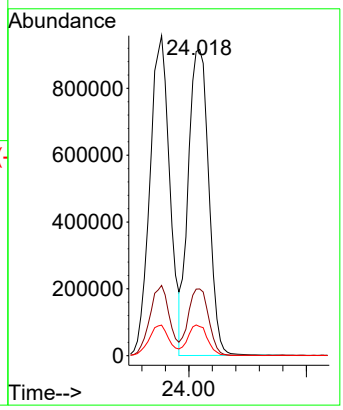


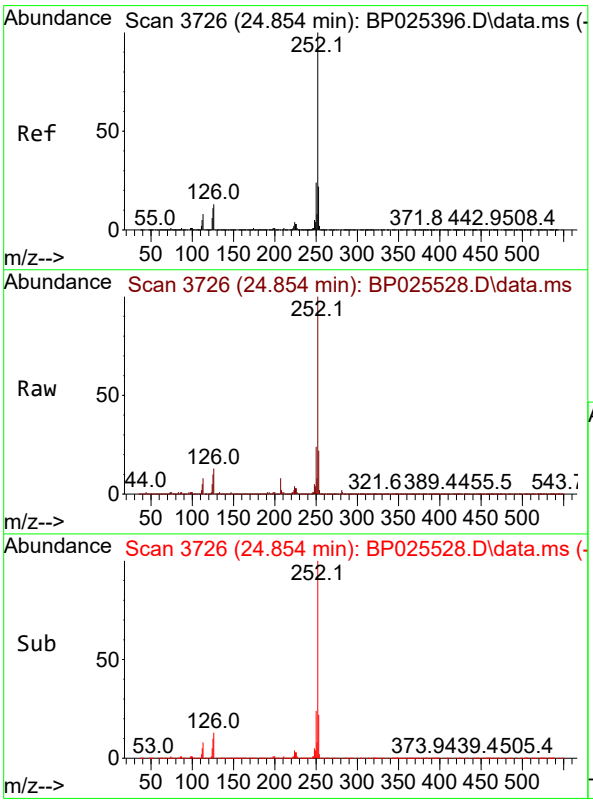
#89
Benzo(k)fluoranthene
Concen: 39.310 ng
RT: 24.018 min Scan# 3
Delta R.T. -0.012 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:252 Resp: 2214493

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.1	25.7
125	9.5	7.8	11.6

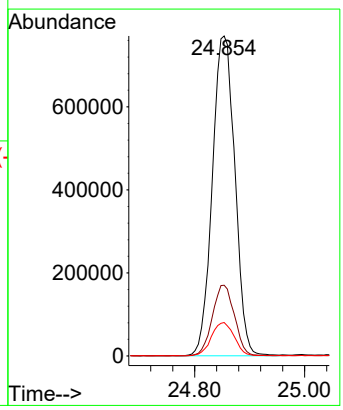


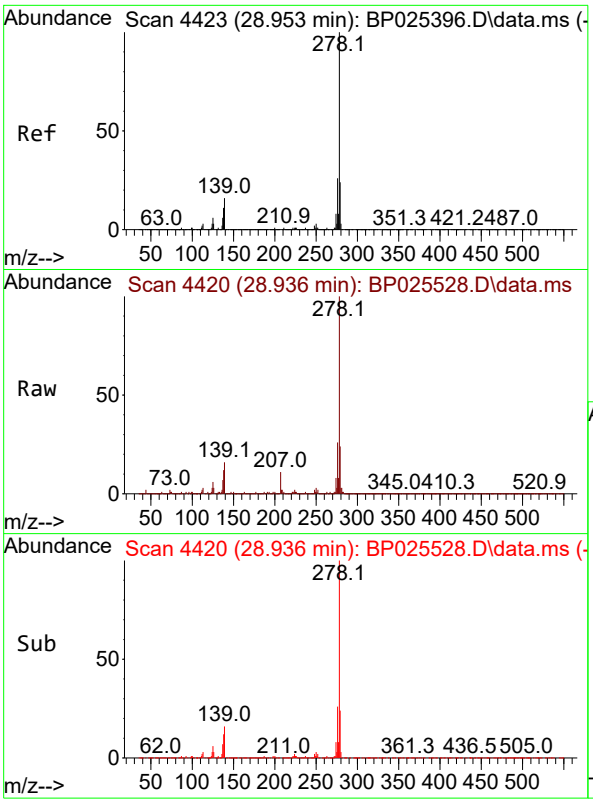


#90
Benzo(a)pyrene
Concen: 40.085 ng
RT: 24.854 min Scan# 3726
Delta R.T. 0.000 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Tgt Ion:252 Resp: 2196644

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.5	26.3
125	10.4	8.7	13.1



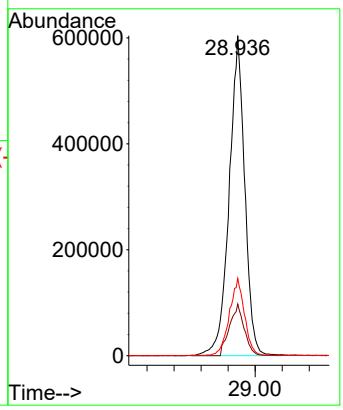


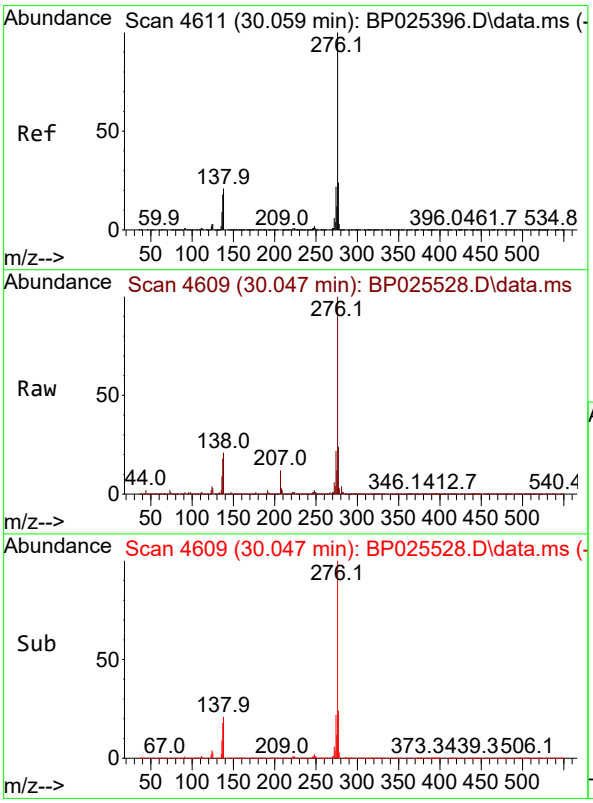
#91
Dibenzo(a,h)anthracene
Concen: 42.186 ng
RT: 28.936 min Scan# 4
Delta R.T. -0.018 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:278 Resp: 2413697

Ion	Ratio	Lower	Upper
278	100		
139	16.2	13.0	19.4
279	24.2	19.4	29.2

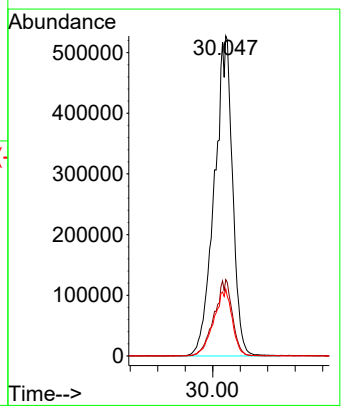




#92
Benzo(g,h,i)perylene
Concen: 43.043 ng
RT: 30.047 min Scan# 4609
Delta R.T. -0.012 min
Lab File: BP025528.D
Acq: 21 Aug 2025 06:42

Tgt Ion:276 Resp: 2420845

Ion	Ratio	Lower	Upper
276	100		
277	23.9	19.4	29.0
138	20.9	16.7	25.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025528.D
Acq On : 21 Aug 2025 06:42
Operator : CG/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: Aug 21 07:32:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 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	133	0.00
2		1,4-Dioxane	0.472	0.468	0.8	140	0.00
3		Pyridine	1.291	1.273	1.4	139	0.00
4		n-Nitrosodimethylamine	0.532	0.591	-11.1	154#	0.00
5	S	2-Fluorophenol	1.204	1.211	-0.6	139	0.00
6		Aniline	2.080	2.110	-1.4	139	0.00
7	S	Phenol-d6	1.544	1.588	-2.8	140	0.00
8		2-Chlorophenol	1.359	1.383	-1.8	140	0.00
9		Benzaldehyde	1.082	1.331	-23.0	130	0.00
10	C	Phenol	1.620	1.664	-2.7	141	0.00
11		bis(2-Chloroethyl)ether	1.263	1.271	-0.6	139	0.00
12		1,3-Dichlorobenzene	1.499	1.492	0.5	138	0.00
13	C	1,4-Dichlorobenzene	1.532	1.515	1.1	138	-0.01
14		1,2-Dichlorobenzene	1.483	1.468	1.0	137	0.00
15		Benzyl Alcohol	1.227	1.293	-5.4	145	0.00
16		2,2'-oxybis(1-Chloropropane	1.692	1.822	-7.7	150	-0.01
17		2-Methylphenol	1.125	1.159	-3.0	140	0.00
18		Hexachloroethane	0.563	0.574	-2.0	140	-0.01
19	P	n-Nitroso-di-n-propylamine	1.023	1.037	-1.4	139	0.00
20		3+4-Methylphenols	1.560	1.594	-2.2	139	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	135	0.00
22		Acetophenone	0.502	0.505	-0.6	140	0.00
23	S	Nitrobenzene-d5	0.395	0.404	-2.3	142	0.00
24		Nitrobenzene	0.353	0.365	-3.4	143	0.00
25		Isophorone	0.700	0.714	-2.0	143	0.00
26	C	2-Nitrophenol	0.181	0.186	-2.8	139	0.00
27		2,4-Dimethylphenol	0.312	0.319	-2.2	139	0.00
28		bis(2-Chloroethoxy)methane	0.423	0.421	0.5	139	0.00
29	C	2,4-Dichlorophenol	0.310	0.312	-0.6	138	0.00
30		1,2,4-Trichlorobenzene	0.340	0.325	4.4	134	0.00
31		Naphthalene	1.040	1.015	2.4	137	0.00
32		Benzoic acid	0.230	0.246	-7.0	146	0.02
33		4-Chloroaniline	0.459	0.465	-1.3	138	0.00
34	C	Hexachlorobutadiene	0.211	0.208	1.4	137	0.00
35		Caprolactam	0.114	0.116	-1.8	143	0.01
36	C	4-Chloro-3-methylphenol	0.355	0.366	-3.1	142	0.00
37		2-Methylnaphthalene	0.676	0.671	0.7	139	0.00
38		1-Methylnaphthalene	0.719	0.703	2.2	138	0.00
39	I	Acenaphthene-d10	1.000	1.000	0.0	132	0.00
40		1,2,4,5-Tetrachlorobenzene	0.578	0.574	0.7	136	0.00
41	P	Hexachlorocyclopentadiene	0.349	0.350	-0.3	133	0.00
42	S	2,4,6-Tribromophenol	0.269	0.274	-1.9	138	0.00
43	C	2,4,6-Trichlorophenol	0.390	0.410	-5.1	142	0.00
44		2,4,5-Trichlorophenol	0.427	0.446	-4.4	139	0.00
45	S	2-Fluorobiphenyl	1.463	1.383	5.5	131	0.00
46		1,1'-Biphenyl	1.453	1.459	-0.4	137	0.00
47		2-Chloronaphthalene	1.131	1.124	0.6	135	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025528.D
Acq On : 21 Aug 2025 06:42
Operator : CG/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: Aug 21 07:32:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 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	0.329	0.374	-13.7	149	0.00
49		Acenaphthylene	1.871	1.868	0.2	137	0.00
50		Dimethylphthalate	1.465	1.502	-2.5	141	0.00
51		2,6-Dinitrotoluene	0.309	0.330	-6.8	141	0.00
52	C	Acenaphthene	1.098	1.075	2.1	136	0.00
53		3-Nitroaniline	0.347	0.367	-5.8	142	0.00
54	P	2,4-Dinitrophenol	0.165	0.174	-5.5	141	0.00
55		Dibenzofuran	1.736	1.733	0.2	137	0.00
56	P	4-Nitrophenol	0.285	0.307	-7.7	145	0.00
57		2,4-Dinitrotoluene	0.440	0.482	-9.5	146	0.00
58		Fluorene	1.370	1.312	4.2	133	0.00
59		2,3,4,6-Tetrachlorophenol	0.377	0.391	-3.7	140	0.00
60		Diethylphthalate	1.488	1.538	-3.4	142	0.00
61		4-Chlorophenyl-phenylether	0.681	0.648	4.8	131	0.00
62		4-Nitroaniline	0.356	0.363	-2.0	136	0.00
63		Azobenzene	1.274	1.356	-6.4	145	0.00
64	I	Phenanthrene-d10	1.000	1.000	0.0	134	0.00
65		4,6-Dinitro-2-methylphenol	0.125	0.131	-4.8	143	0.00
66	c	n-Nitrosodiphenylamine	0.610	0.601	1.5	136	0.00
67		4-Bromophenyl-phenylether	0.220	0.217	1.4	136	0.00
68		Hexachlorobenzene	0.255	0.250	2.0	138	0.00
69		Atrazine	0.228	0.231	-1.3	142	0.00
70	C	Pentachlorophenol	0.161	0.169	-5.0	144	0.00
71		Phenanthrene	1.099	1.074	2.3	138	0.00
72		Anthracene	1.122	1.087	3.1	135	0.00
73		Carbazole	1.057	1.024	3.1	136	0.00
74		Di-n-butylphthalate	1.300	1.302	-0.2	140	0.00
75	C	Fluoranthene	1.311	1.222	6.8	133	0.00
76	I	Chrysene-d12	1.000	1.000	0.0	108	0.00
77		Benzidine	0.683	0.624	8.6	69	0.01
78		Pyrene	1.300	1.517	-16.7	128	0.00
79	S	Terphenyl-d14	1.093	1.224	-12.0	126	0.00
80		Butylbenzylphthalate	0.589	0.681	-15.6	126	0.00
81		Benzo(a)anthracene	1.319	1.317	0.2	112	-0.01
82		3,3'-Dichlorobenzidine	0.497	0.463	6.8	102	0.00
83		Chrysene	1.235	1.220	1.2	111	0.00
84		Bis(2-ethylhexyl)phthalate	0.867	0.908	-4.7	118	-0.02
85	c	Di-n-octyl phthalate	1.492	1.357	9.0	101	-0.02
86	I	Perylene-d12	1.000	1.000	0.0	93	-0.03
87		Indeno(1,2,3-cd)pyrene	1.467	1.545	-5.3	102	-0.02
88		Benzo(b)fluoranthene	1.179	1.178	0.1	97	0.00
89		Benzo(k)fluoranthene	1.180	1.160	1.7	96	-0.01
90	C	Benzo(a)pyrene	1.148	1.150	-0.2	97	0.00
91		Dibenzo(a,h)anthracene	1.199	1.264	-5.4	102	-0.02
92		Benzo(g,h,i)perylene	1.178	1.268	-7.6	104	-0.01

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025528.D
Acq On : 21 Aug 2025 06:42
Operator : CG/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: Aug 21 07:32:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration

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

Compound	AvgRF	CCRF	%Dev Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025528.D
Acq On : 21 Aug 2025 06:42
Operator : CG/JU
Sample : SSTDCCC040
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Instrument :
BNA_P
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SSTDCCC040

Quant Time: Aug 21 07:32:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 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	133	0.00
2		1,4-Dioxane	40.000	39.712	0.7	140	0.00
3		Pyridine	40.000	39.440	1.4	139	0.00
4		n-Nitrosodimethylamine	40.000	44.377	-10.9	154	0.00
5	S	2-Fluorophenol	80.000	80.452	-0.6	139	0.00
6		Aniline	40.000	40.577	-1.4	139	0.00
7	S	Phenol-d6	80.000	82.271	-2.8	140	0.00
8		2-Chlorophenol	40.000	40.707	-1.8	140	0.00
9		Benzaldehyde	40.000	49.222	-23.1	130	0.00
10	C	Phenol	40.000	41.075	-2.7	141	0.00
11		bis(2-Chloroethyl)ether	40.000	40.272	-0.7	139	0.00
12		1,3-Dichlorobenzene	40.000	39.834	0.4	138	0.00
13	C	1,4-Dichlorobenzene	40.000	39.573	1.1	138	-0.01
14		1,2-Dichlorobenzene	40.000	39.615	1.0	137	0.00
15		Benzyl Alcohol	40.000	42.156	-5.4	145	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	43.083	-7.7	150	-0.01
17		2-Methylphenol	40.000	41.208	-3.0	140	0.00
18		Hexachloroethane	40.000	40.767	-1.9	140	-0.01
19	P	n-Nitroso-di-n-propylamine	40.000	40.542	-1.4	139	0.00
20		3+4-Methylphenols	40.000	40.875	-2.2	139	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	135	0.00
22		Acetophenone	40.000	40.242	-0.6	140	0.00
23	S	Nitrobenzene-d5	80.000	81.750	-2.2	142	0.00
24		Nitrobenzene	40.000	41.331	-3.3	143	0.00
25		Isophorone	40.000	40.795	-2.0	143	0.00
26	C	2-Nitrophenol	40.000	41.048	-2.6	139	0.00
27		2,4-Dimethylphenol	40.000	40.905	-2.3	139	0.00
28		bis(2-Chloroethoxy)methane	40.000	39.830	0.4	139	0.00
29	C	2,4-Dichlorophenol	40.000	40.321	-0.8	138	0.00
30		1,2,4-Trichlorobenzene	40.000	38.224	4.4	134	0.00
31		Naphthalene	40.000	39.071	2.3	137	0.00
32		Benzoic acid	40.000	42.778	-6.9	146	0.02
33		4-Chloroaniline	40.000	40.477	-1.2	138	0.00
34	C	Hexachlorobutadiene	40.000	39.290	1.8	137	0.00
35		Caprolactam	40.000	40.851	-2.1	143	0.01
36	C	4-Chloro-3-methylphenol	40.000	41.225	-3.1	142	0.00
37		2-Methylnaphthalene	40.000	39.701	0.7	139	0.00
38		1-Methylnaphthalene	40.000	39.062	2.3	138	0.00
39	I	Acenaphthene-d10	20.000	20.000	0.0	132	0.00
40		1,2,4,5-Tetrachlorobenzene	40.000	39.778	0.6	136	0.00
41	P	Hexachlorocyclopentadiene	40.000	40.117	-0.3	133	0.00
42	S	2,4,6-Tribromophenol	80.000	81.551	-1.9	138	0.00
43	C	2,4,6-Trichlorophenol	40.000	42.093	-5.2	142	0.00
44		2,4,5-Trichlorophenol	40.000	41.781	-4.5	139	0.00
45	S	2-Fluorobiphenyl	80.000	75.599	5.5	131	0.00
46		1,1'-Biphenyl	40.000	40.191	-0.5	137	0.00
47		2-Chloronaphthalene	40.000	39.774	0.6	135	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025528.D
Acq On : 21 Aug 2025 06:42
Operator : CG/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: Aug 21 07:32:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 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	45.353	-13.4	149	0.00
49		Acenaphthylene	40.000	39.943	0.1	137	0.00
50		Dimethylphthalate	40.000	41.027	-2.6	141	0.00
51		2,6-Dinitrotoluene	40.000	42.738	-6.8	141	0.00
52	C	Acenaphthene	40.000	39.164	2.1	136	0.00
53		3-Nitroaniline	40.000	42.321	-5.8	142	0.00
54	P	2,4-Dinitrophenol	40.000	42.191	-5.5	141	0.00
55		Dibenzofuran	40.000	39.925	0.2	137	0.00
56	P	4-Nitrophenol	40.000	43.033	-7.6	145	0.00
57		2,4-Dinitrotoluene	40.000	43.783	-9.5	146	0.00
58		Fluorene	40.000	38.298	4.3	133	0.00
59		2,3,4,6-Tetrachlorophenol	40.000	41.403	-3.5	140	0.00
60		Diethylphthalate	40.000	41.343	-3.4	142	0.00
61		4-Chlorophenyl-phenylether	40.000	38.031	4.9	131	0.00
62		4-Nitroaniline	40.000	40.733	-1.8	136	0.00
63		Azobenzene	40.000	42.575	-6.4	145	0.00
64	I	Phenanthrene-d10	20.000	20.000	0.0	134	0.00
65		4,6-Dinitro-2-methylphenol	40.000	42.114	-5.3	143	0.00
66	c	n-Nitrosodiphenylamine	40.000	39.423	1.4	136	0.00
67		4-Bromophenyl-phenylether	40.000	39.453	1.4	136	0.00
68		Hexachlorobenzene	40.000	39.143	2.1	138	0.00
69		Atrazine	40.000	40.478	-1.2	142	0.00
70	C	Pentachlorophenol	40.000	42.093	-5.2	144	0.00
71		Phenanthrene	40.000	39.098	2.3	138	0.00
72		Anthracene	40.000	38.766	3.1	135	0.00
73		Carbazole	40.000	38.750	3.1	136	0.00
74		Di-n-butylphthalate	40.000	40.043	-0.1	140	0.00
75	C	Fluoranthene	40.000	37.289	6.8	133	0.00
76	I	Chrysene-d12	20.000	20.000	0.0	108	0.00
77		Benzidine	40.000	36.563	8.6	69	0.01
78		Pyrene	40.000	46.678	-16.7	128	0.00
79	S	Terphenyl-d14	80.000	89.549	-11.9	126	0.00
80		Butylbenzylphthalate	40.000	46.209	-15.5	126	0.00
81		Benzo(a)anthracene	40.000	39.933	0.2	112	-0.01
82		3,3'-Dichlorobenzidine	40.000	37.227	6.9	102	0.00
83		Chrysene	40.000	39.504	1.2	111	0.00
84		Bis(2-ethylhexyl)phthalate	40.000	41.878	-4.7	118	-0.02
85	c	Di-n-octyl phthalate	40.000	36.401	9.0	101	-0.02
86	I	Perylene-d12	20.000	20.000	0.0	93	-0.03
87		Indeno(1,2,3-cd)pyrene	40.000	42.143	-5.4	102	-0.02
88		Benzo(b)fluoranthene	40.000	39.965	0.1	97	0.00
89		Benzo(k)fluoranthene	40.000	39.310	1.7	96	-0.01
90	C	Benzo(a)pyrene	40.000	40.085	-0.2	97	0.00
91		Dibenzo(a,h)anthracene	40.000	42.186	-5.5	102	-0.02
92		Benzo(g,h,i)perylene	40.000	43.043	-7.6	104	-0.01

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025528.D
Acq On : 21 Aug 2025 06:42
Operator : CG/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: Aug 21 07:32:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration

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

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

(#) = Out of Range SPCC's out = 0 CCC's out = 0

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: FIRS02

Lab Code: ACE SDG No.: Q2819

Instrument ID: BNA_P Calibration Date/Time: 08/21/2025 17:11

Lab File ID: BP025542.D Init. Calib. Date(s): 08/14/2025 08/14/2025

EPA Sample No.: SSTDCCC040EC Init. Calib. Time(s): 12:33 17:24

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.204	1.212		0.7	50.0
Benzaldehyde	1.082	1.364		26.1	50.0
Phenol-d6	1.544	1.576		2.1	50.0
Phenol	1.620	1.627		0.4	50.0
bis(2-Chloroethyl)ether	1.263	1.232		-2.5	50.0
2-Chlorophenol	1.359	1.363		0.3	50.0
2-Methylphenol	1.125	1.127		0.2	50.0
2,2-oxybis(1-Chloropropane)	1.692	1.698		0.4	50.0
Acetophenone	0.502	0.488		-2.8	50.0
3+4-Methylphenols	1.560	1.540		-1.3	50.0
n-Nitroso-di-n-propylamine	1.023	0.960	0.050	-6.2	50.0
Nitrobenzene-d5	0.395	0.400		1.3	50.0
Hexachloroethane	0.563	0.558		-0.9	50.0
Nitrobenzene	0.353	0.359		1.7	50.0
Isophorone	0.700	0.664		-5.1	50.0
2-Nitrophenol	0.181	0.184		1.7	50.0
2,4-Dimethylphenol	0.312	0.307		-1.6	50.0
bis(2-Chloroethoxy)methane	0.423	0.397		-6.1	50.0
2,4-Dichlorophenol	0.310	0.306		-1.3	50.0
Naphthalene	1.040	0.998		-4.0	50.0
4-Chloroaniline	0.459	0.442		-3.7	50.0
Hexachlorobutadiene	0.211	0.203		-3.8	50.0
Caprolactam	0.114	0.114		0.0	50.0
4-Chloro-3-methylphenol	0.355	0.349		-1.7	50.0
2-Methylnaphthalene	0.676	0.634		-6.2	50.0
Hexachlorocyclopentadiene	0.349	0.257	0.050	-26.4	50.0
2,4,6-Trichlorophenol	0.390	0.396		1.5	50.0
2-Fluorobiphenyl	1.463	1.377		-5.9	50.0
2,4,5-Trichlorophenol	0.427	0.429		0.5	50.0
1,1-Biphenyl	1.453	1.391		-4.3	50.0
2-Chloronaphthalene	1.131	1.085		-4.1	50.0
2-Nitroaniline	0.329	0.358		8.8	50.0
Dimethylphthalate	1.465	1.393		-4.9	50.0
Acenaphthylene	1.871	1.831		-2.1	50.0
2,6-Dinitrotoluene	0.309	0.310		0.3	50.0
3-Nitroaniline	0.347	0.357		2.9	50.0
Acenaphthene	1.098	1.038		-5.5	50.0
2,4-Dinitrophenol	0.165	0.152	0.050	-7.9	50.0
4-Nitrophenol	0.285	0.310	0.050	8.8	50.0

Form VII SV-1

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: Alliance Contract: FIRS02

Lab Code: ACE SDG No.: Q2819

Instrument ID: BNA_P Calibration Date/Time: 08/21/2025 17:11

Lab File ID: BP025542.D Init. Calib. Date(s): 08/14/2025 08/14/2025

EPA Sample No.: SSTDCCC040EC Init. Calib. Time(s): 12:33 17:24

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.736	1.667		-4.0	50.0
2,4-Dinitrotoluene	0.440	0.467		6.1	50.0
Diethylphthalate	1.488	1.450		-2.6	50.0
4-Chlorophenyl-phenylether	0.681	0.643		-5.6	50.0
Fluorene	1.370	1.332		-2.8	50.0
4-Nitroaniline	0.356	0.384		7.9	50.0
4,6-Dinitro-2-methylphenol	0.125	0.105		-16.0	50.0
n-Nitrosodiphenylamine	0.610	0.588		-3.6	50.0
2,4,6-Tribromophenol	0.269	0.267		-0.7	50.0
4-Bromophenyl-phenylether	0.220	0.208		-5.5	50.0
Hexachlorobenzene	0.255	0.241		-5.5	50.0
Atrazine	0.228	0.223		-2.2	50.0
Pentachlorophenol	0.161	0.162		0.6	50.0
Phenanthrene	1.099	1.070		-2.6	50.0
Anthracene	1.122	1.092		-2.7	50.0
Carbazole	1.057	1.063		0.6	50.0
Di-n-butylphthalate	1.300	1.288		-0.9	50.0
Fluoranthene	1.311	1.283		-2.1	50.0
Pyrene	1.300	1.271		-2.2	50.0
Terphenyl-d14	1.093	1.049		-4.0	50.0
Butylbenzylphthalate	0.589	0.602		2.2	50.0
3,3-Dichlorobenzidine	0.497	0.504		1.4	50.0
Benzo(a)anthracene	1.319	1.296		-1.7	50.0
Chrysene	1.235	1.203		-2.6	50.0
Bis(2-ethylhexyl)phthalate	0.867	0.849		-2.1	50.0
Di-n-octyl phthalate	1.492	1.537		3.0	50.0
Benzo(b)fluoranthene	1.179	1.107		-6.1	50.0
Benzo(k)fluoranthene	1.180	1.135		-3.8	50.0
Benzo(a)pyrene	1.148	1.109		-3.4	50.0
Indeno(1,2,3-cd)pyrene	1.467	1.440		-1.8	50.0
Dibenzo(a,h)anthracene	1.199	1.186		-1.1	50.0
Benzo(g,h,i)perylene	1.178	1.170		-0.7	50.0
1,2,4,5-Tetrachlorobenzene	0.578	0.557		-3.6	50.0
1,4-Dioxane	0.472	0.452		-4.2	50.0
2,3,4,6-Tetrachlorophenol	0.377	0.380		0.8	50.0

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025542.D
Acq On : 21 Aug 2025 17:11
Operator : CG/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Quant Time: Aug 21 17:38:37 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.778	152	136090	20.000	ng	-0.02
21) Naphthalene-d8	10.549	136	561087	20.000	ng	-0.01
39) Acenaphthene-d10	14.401	164	361820	20.000	ng	0.00
64) Phenanthrene-d10	17.201	188	738022	20.000	ng	0.00
76) Chrysene-d12	21.654	240	775486	20.000	ng	0.00
86) Perylene-d12	25.042	264	938396	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.402	112	659968	80.536	ng	0.00
7) Phenol-d6	6.966	99	858005	81.665	ng	0.00
23) Nitrobenzene-d5	8.925	82	898712	81.025	ng	-0.01
42) 2,4,6-Tribromophenol	15.913	330	386032	79.265	ng	0.00
45) 2-Fluorobiphenyl	13.007	172	1993253	75.290	ng	-0.01
79) Terphenyl-d14	19.919	244	3252513	76.735	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.325	88	123102	38.351	ng	98
3) Pyridine	3.725	79	334015	38.018	ng	96
4) n-Nitrosodimethylamine	3.625	42	154661	42.700	ng	93
6) Aniline	7.113	93	558248	39.437	ng	97
8) 2-Chlorophenol	7.361	128	371115	40.132	ng	99
9) Benzaldehyde	6.931	77	371170	50.425	ng	97
10) Phenol	6.990	94	442754	40.161	ng	98
11) bis(2-Chloroethyl)ether	7.208	93	335445	39.038	ng	99
12) 1,3-Dichlorobenzene	7.672	146	400071	39.235	ng	99
13) 1,4-Dichlorobenzene	7.813	146	407112	39.062	ng	99
14) 1,2-Dichlorobenzene	8.131	146	391768	38.832	ng	99
15) Benzyl Alcohol	8.013	79	333074	39.899	ng	97
16) 2,2'-oxybis(1-Chloropr...	8.302	45	462041	40.140	ng	98
17) 2-Methylphenol	8.219	107	306623	40.046	ng	99
18) Hexachloroethane	8.855	117	151796	39.613	ng	95
19) n-Nitroso-di-n-propyla...	8.578	70	261358	37.556	ng	99
20) 3+4-Methylphenols	8.543	107	419151	39.493	ng	97
22) Acetophenone	8.590	105	547747	38.928	ng	98
24) Nitrobenzene	8.966	77	402602	40.614	ng	99
25) Isophorone	9.490	82	744998	37.953	ng	98
26) 2-Nitrophenol	9.666	139	206989	40.687	ng	97
27) 2,4-Dimethylphenol	9.731	122	343995	39.319	ng	95
28) bis(2-Chloroethoxy)met...	9.960	93	445729	37.564	ng	99
29) 2,4-Dichlorophenol	10.207	162	343907	39.571	ng	98
30) 1,2,4-Trichlorobenzene	10.413	180	367404	38.564	ng	96
31) Naphthalene	10.602	128	1119457	38.386	ng	100
32) Benzoic acid	9.872	122	263736	40.832	ng	96
33) 4-Chloroaniline	10.707	127	495841	38.492	ng	100
34) Hexachlorobutadiene	10.890	225	228289	38.476	ng	98
35) Caprolactam	11.490	113	127845	40.117	ng	99
36) 4-Chloro-3-methylphenol	11.837	107	391584	39.266	ng	97
37) 2-Methylnaphthalene	12.207	142	711313	37.480	ng	99
38) 1-Methylnaphthalene	12.425	142	759140	37.614	ng	99
40) 1,2,4,5-Tetrachloroben...	12.578	216	403111	38.576	ng	100
41) Hexachlorocyclopentadiene	12.560	237	185973	29.463	ng	99
43) 2,4,6-Trichlorophenol	12.819	196	286518	40.614	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025542.D
Acq On : 21 Aug 2025 17:11
Operator : CG/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Quant Time: Aug 21 17:38:37 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration

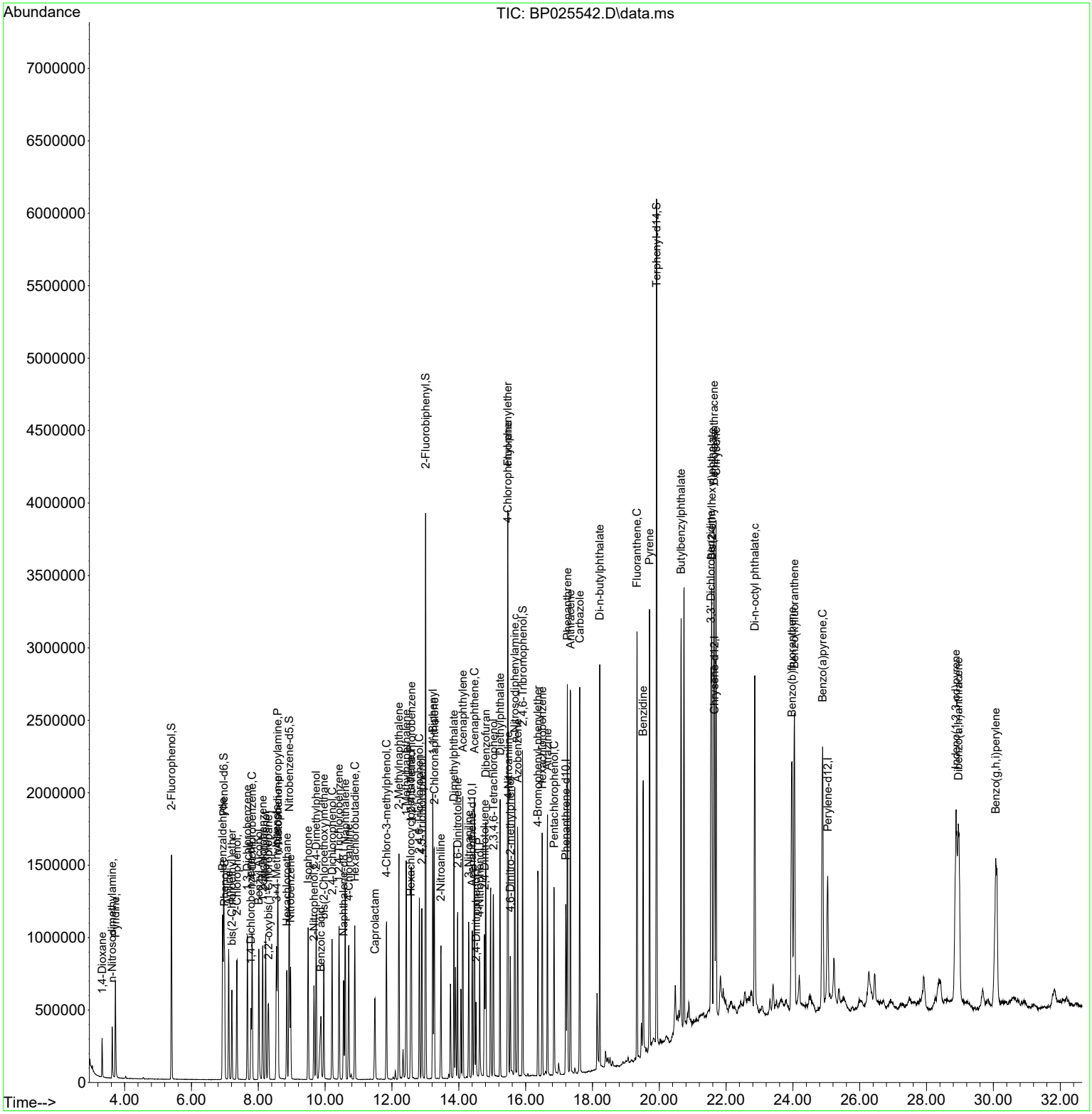
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.896	196	310439	40.151	ng	97
46) 1,1'-Biphenyl	13.225	154	1006707	38.311	ng	99
47) 2-Chloronaphthalene	13.266	162	785215	38.384	ng	99
48) 2-Nitroaniline	13.466	65	259315	43.505	ng	99
49) Acenaphthylene	14.119	152	1325117	39.147	ng	100
50) Dimethylphthalate	13.854	163	1008135	38.049	ng	99
51) 2,6-Dinitrotoluene	13.966	165	224262	40.158	ng	99
52) Acenaphthene	14.466	154	751169	37.805	ng	99
53) 3-Nitroaniline	14.295	138	258517	41.145	ng	95
54) 2,4-Dinitrophenol	14.519	184	109722	36.791	ng	96
55) Dibenzofuran	14.807	168	1206654	38.412	ng	100
56) 4-Nitrophenol	14.625	139	224642	43.509	ng	99
57) 2,4-Dinitrotoluene	14.772	165	337744	42.389	ng	98
58) Fluorene	15.466	166	964124	38.896	ng	98
59) 2,3,4,6-Tetrachlorophenol	15.037	232	275227	40.314	ng	99
60) Diethylphthalate	15.237	149	1048925	38.961	ng	99
61) 4-Chlorophenyl-phenyle...	15.460	204	465636	37.771	ng	97
62) 4-Nitroaniline	15.484	138	277864	43.138	ng	99
63) Azobenzene	15.760	77	930640	40.370	ng	98
65) 4,6-Dinitro-2-methylph...	15.542	198	155486	33.798	ng	93
66) n-Nitrosodiphenylamine	15.678	169	868621	38.596	ng	99
67) 4-Bromophenyl-phenylether	16.366	248	306365	37.744	ng	97
68) Hexachlorobenzene	16.495	284	355309	37.762	ng	99
69) Atrazine	16.654	200	329503	39.095	ng	98
70) Pentachlorophenol	16.854	266	238756	40.198	ng	97
71) Phenanthrene	17.248	178	1579287	38.954	ng	99
72) Anthracene	17.342	178	1611788	38.931	ng	99
73) Carbazole	17.619	167	1568464	40.220	ng	99
74) Di-n-butylphthalate	18.219	149	1901273	39.627	ng	100
75) Fluoranthene	19.330	202	1894256	39.170	ng	99
77) Benzidine	19.519	184	1131270	42.745	ng	99
78) Pyrene	19.707	202	1970872	39.101	ng	99
80) Butylbenzylphthalate	20.654	149	933796	40.877	ng	98
81) Benzo(a)anthracene	21.636	228	2010459	39.310	ng	100
82) 3,3'-Dichlorobenzidine	21.542	252	781552	40.543	ng	100
83) Chrysene	21.701	228	1865688	38.953	ng	99
84) Bis(2-ethylhexyl)phtha...	21.572	149	1316686	39.155	ng	99
85) Di-n-octyl phthalate	22.860	149	2384611	41.227	ng	98
87) Indeno(1,2,3-cd)pyrene	28.877	276	2703463	39.284	ng	94
88) Benzo(b)fluoranthene	23.971	252	2077718	37.548	ng	100
89) Benzo(k)fluoranthene	24.042	252	2130275	38.472	ng	99
90) Benzo(a)pyrene	24.889	252	2081963	38.652	ng	100
91) Dibenzo(a,h)anthracene	28.953	278	2225141	39.566	ng	99
92) Benzo(g,h,i)perylene	30.071	276	2194980	39.705	ng	99

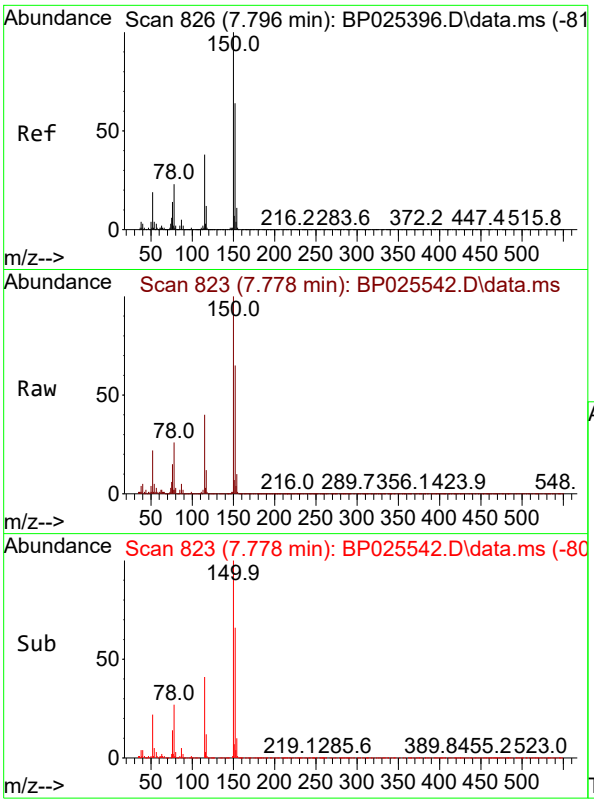
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025542.D
Acq On : 21 Aug 2025 17:11
Operator : CG/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Quant Time: Aug 21 17:38:37 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration



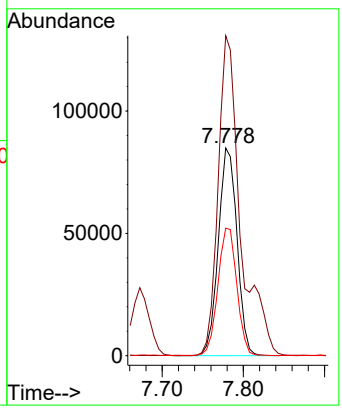


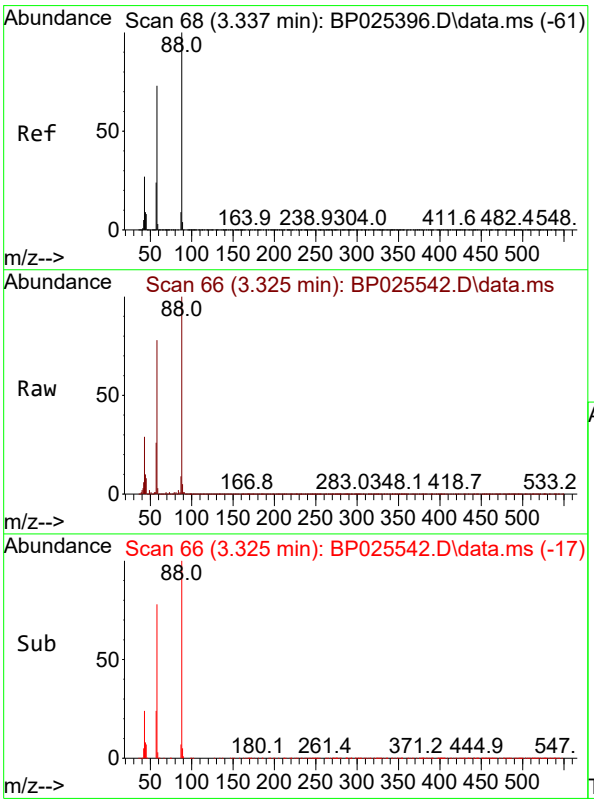
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.778 min Scan# 8
Delta R.T. -0.018 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:152 Resp: 136090

Ion	Ratio	Lower	Upper
152	100		
150	154.1	125.9	188.9
115	61.4	48.5	72.7

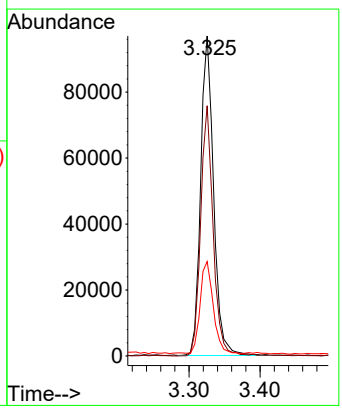


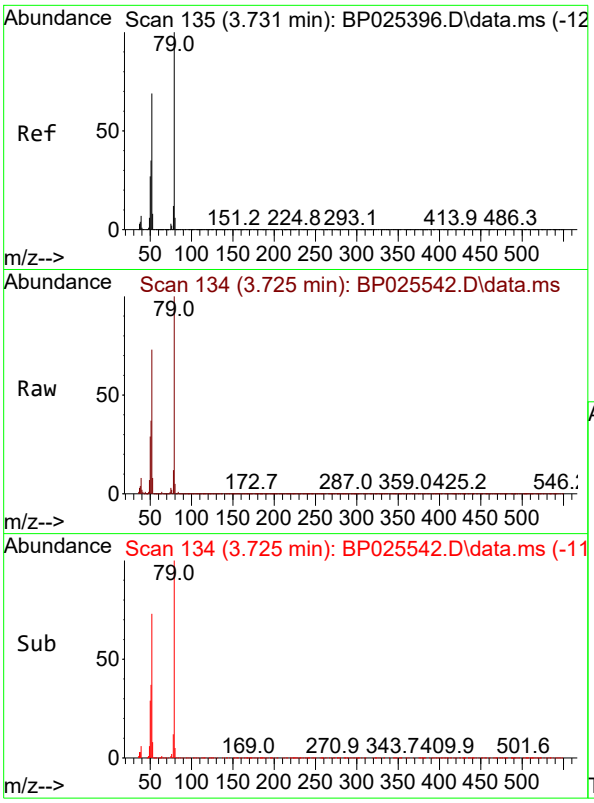


#2
1,4-Dioxane
Concen: 38.351 ng
RT: 3.325 min Scan# 66
Delta R.T. -0.012 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Tgt Ion: 88 Resp: 123102

Ion	Ratio	Lower	Upper
88	100		
58	75.7	59.2	88.8
43	29.0	21.7	32.5



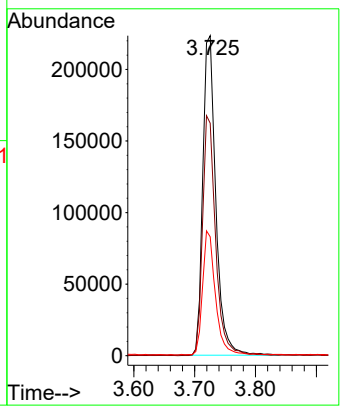


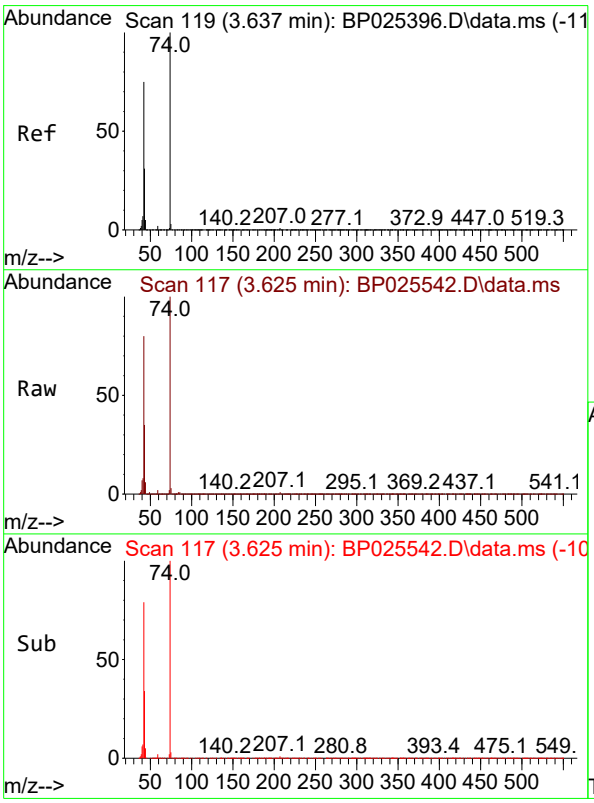
#3
Pyridine
Concen: 38.018 ng
RT: 3.725 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 79 Resp: 334015

Ion	Ratio	Lower	Upper
79	100		
52	72.6	55.5	83.3
51	37.2	28.3	42.5

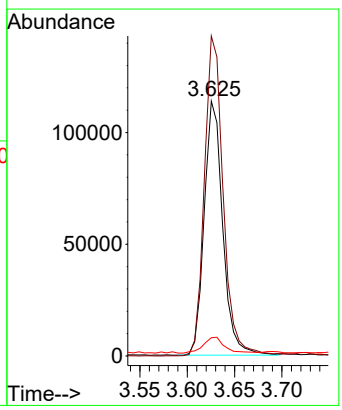


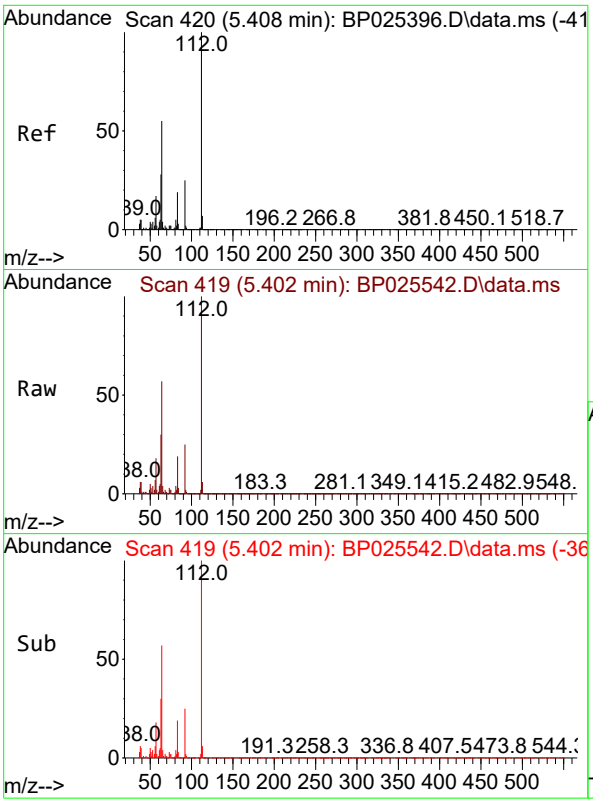


#4
n-Nitrosodimethylamine
Concen: 42.700 ng
RT: 3.625 min Scan# 117
Delta R.T. -0.012 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Tgt Ion: 42 Resp: 154661

Ion	Ratio	Lower	Upper
42	100		
74	125.5	107.0	160.4
44	7.1	6.2	9.4



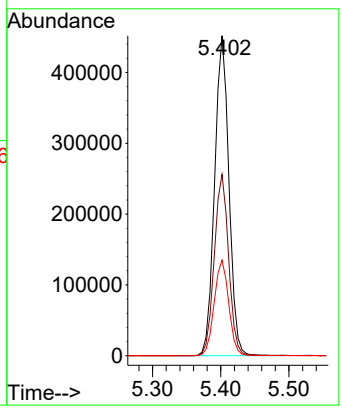


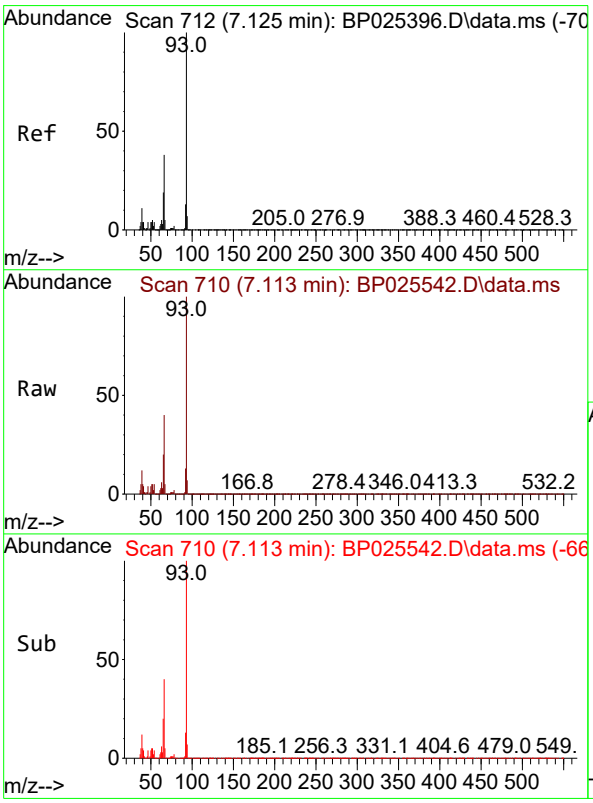
#5
2-Fluorophenol
Concen: 80.536 ng
RT: 5.402 min Scan# 41
Delta R.T. -0.006 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:112 Resp: 659968

Ion	Ratio	Lower	Upper
112	100		
64	56.7	43.8	65.8
63	29.8	22.7	34.1

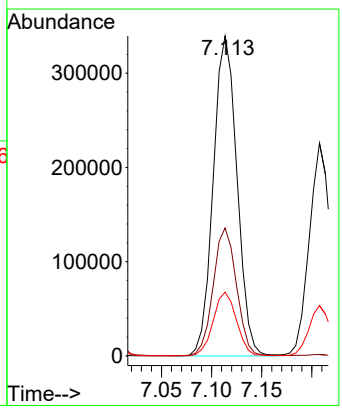


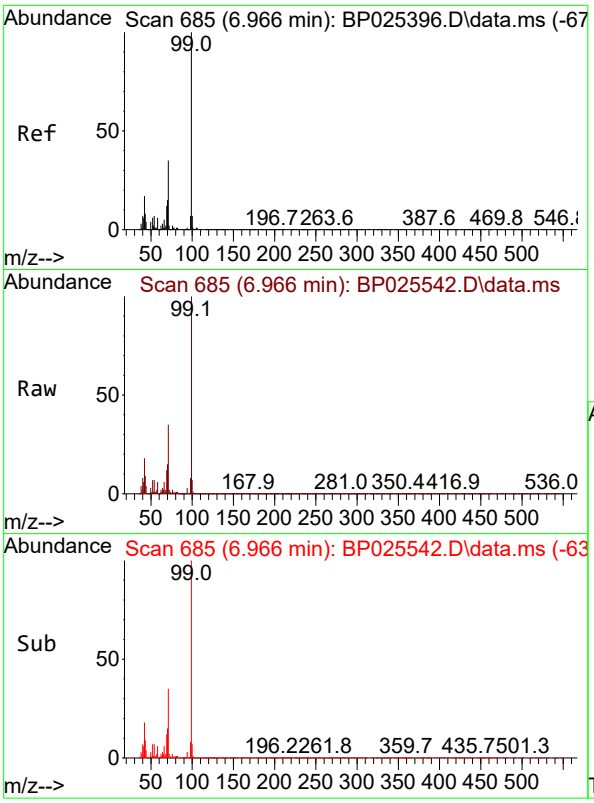


#6
Aniline
Concen: 39.437 ng
RT: 7.113 min Scan# 710
Delta R.T. -0.012 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Tgt Ion: 93 Resp: 558248

Ion	Ratio	Lower	Upper
93	100		
66	40.0	30.4	45.6
65	19.9	15.3	22.9



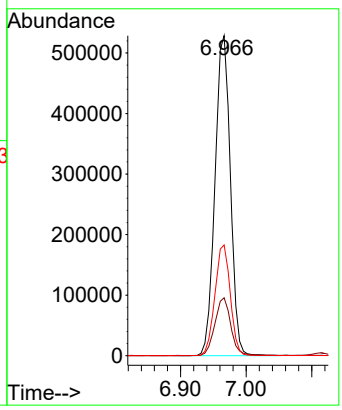


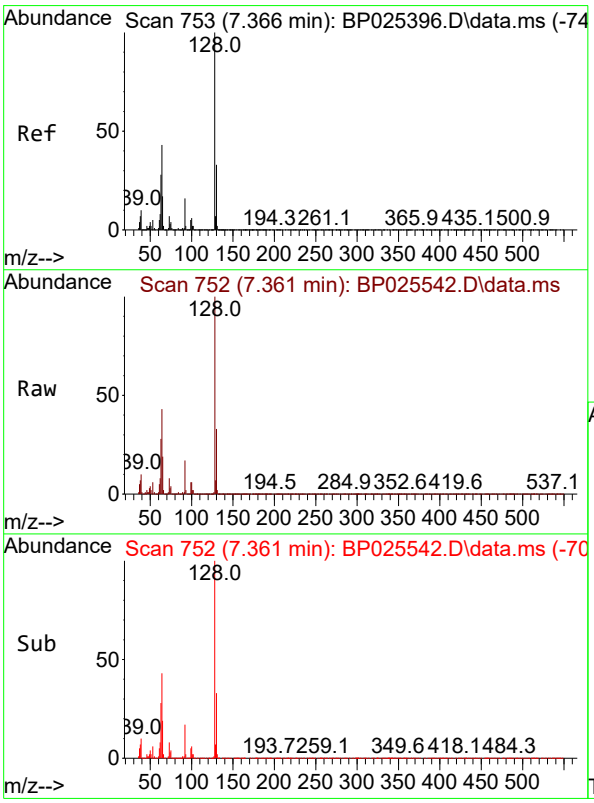
#7
Phenol-d6
Concen: 81.665 ng
RT: 6.966 min Scan# 6
Delta R.T. 0.000 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 99 Resp: 858005

Ion	Ratio	Lower	Upper
99	100		
42	18.1	13.7	20.5
71	34.6	28.2	42.4

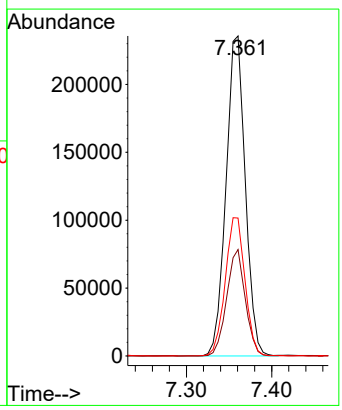


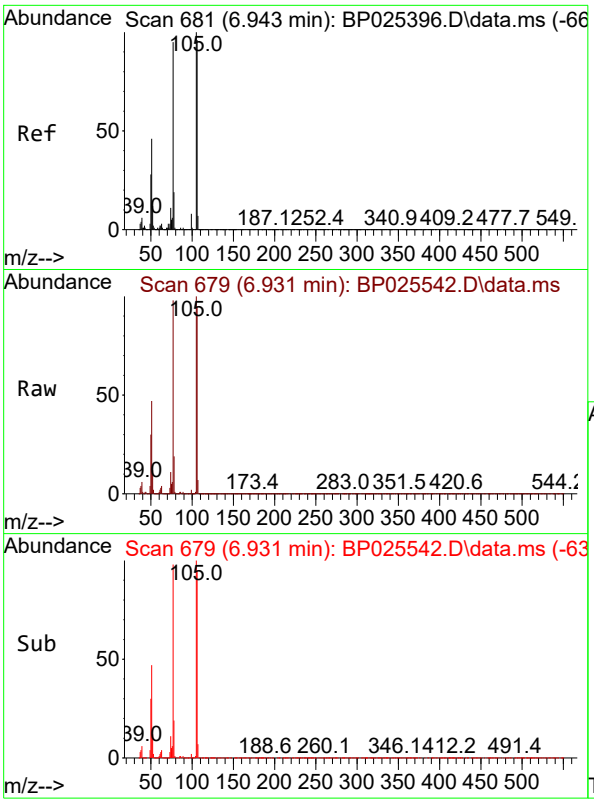


#8
2-Chlorophenol
Concen: 40.132 ng
RT: 7.361 min Scan# 752
Delta R.T. -0.006 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Tgt Ion:128 Resp: 371115

Ion	Ratio	Lower	Upper
128	100		
130	33.2	12.6	52.6
64	43.1	23.4	63.4



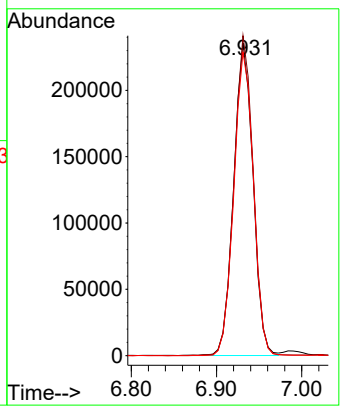


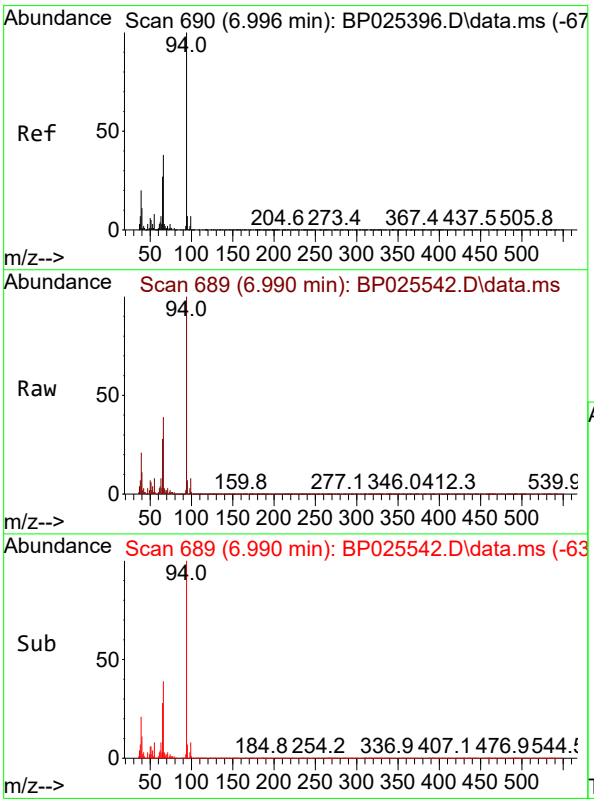
#9
Benzaldehyde
Concen: 50.425 ng
RT: 6.931 min Scan# 6
Delta R.T. -0.012 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 77 Resp: 371170

Ion	Ratio	Lower	Upper
77	100		
105	102.3	84.8	124.8
106	97.0	80.5	120.5

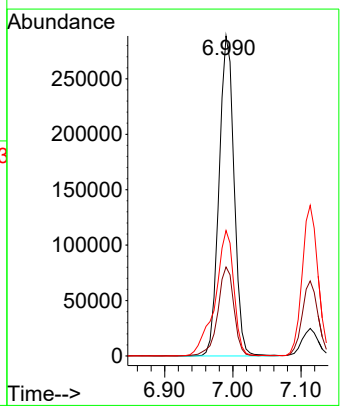


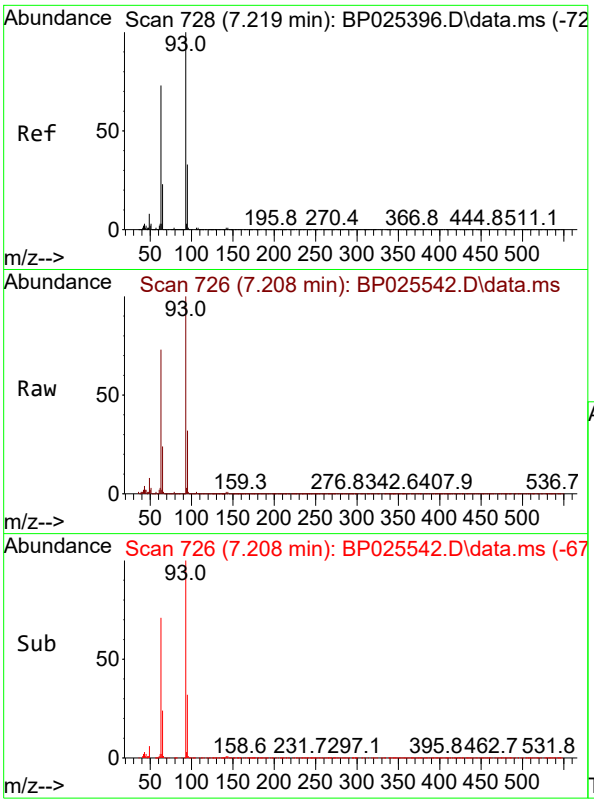


#10
Phenol
Concen: 40.161 ng
RT: 6.990 min Scan# 689
Delta R.T. -0.006 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Tgt Ion: 94 Resp: 442754

Ion	Ratio	Lower	Upper
94	100		
65	27.8	6.8	46.8
66	39.2	18.2	58.2



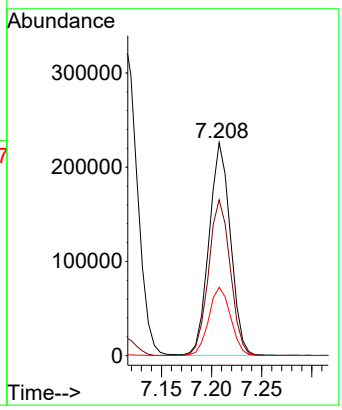


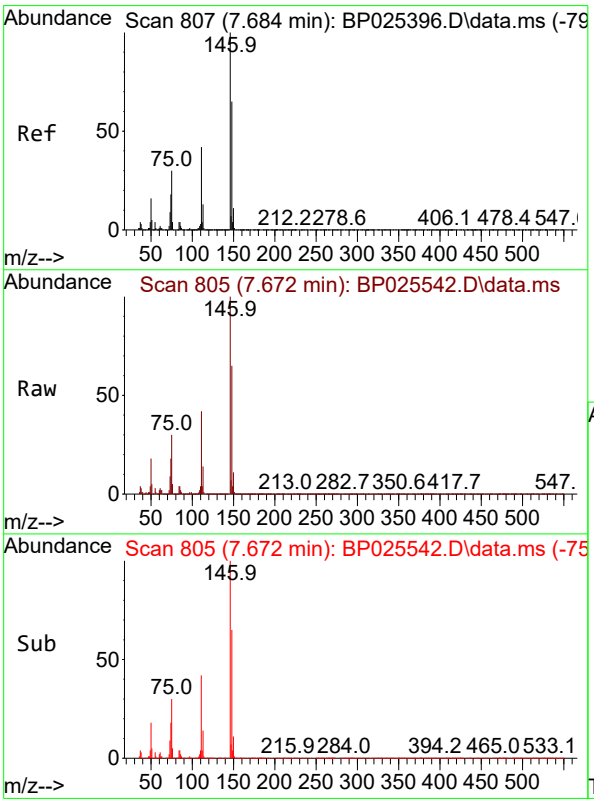
#11
bis(2-Chloroethyl)ether
Concen: 39.038 ng
RT: 7.208 min Scan# 7
Delta R.T. -0.012 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 93 Resp: 335445

Ion	Ratio	Lower	Upper
93	100		
63	73.2	52.6	92.6
95	32.1	12.7	52.7

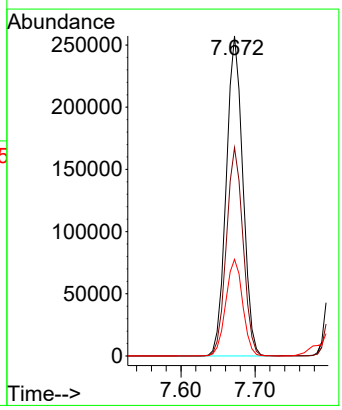


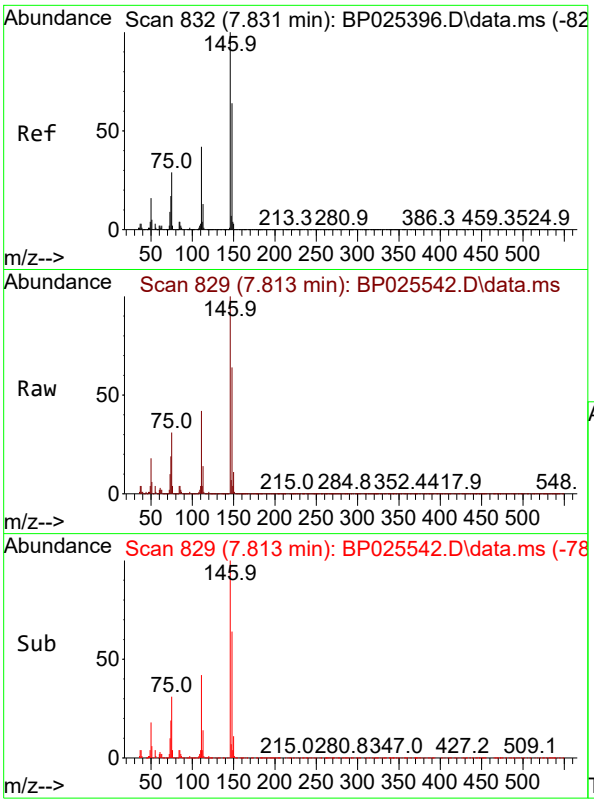


#12
1,3-Dichlorobenzene
Concen: 39.235 ng
RT: 7.672 min Scan# 805
Delta R.T. -0.012 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Tgt Ion:146 Resp: 400071

Ion	Ratio	Lower	Upper
146	100		
148	65.1	51.9	77.9
75	30.2	23.7	35.5



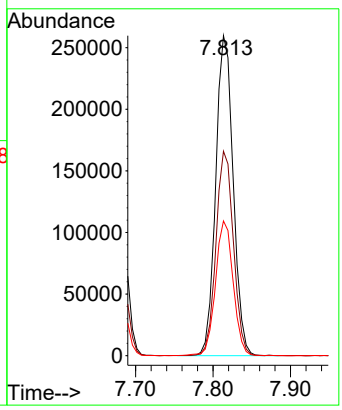


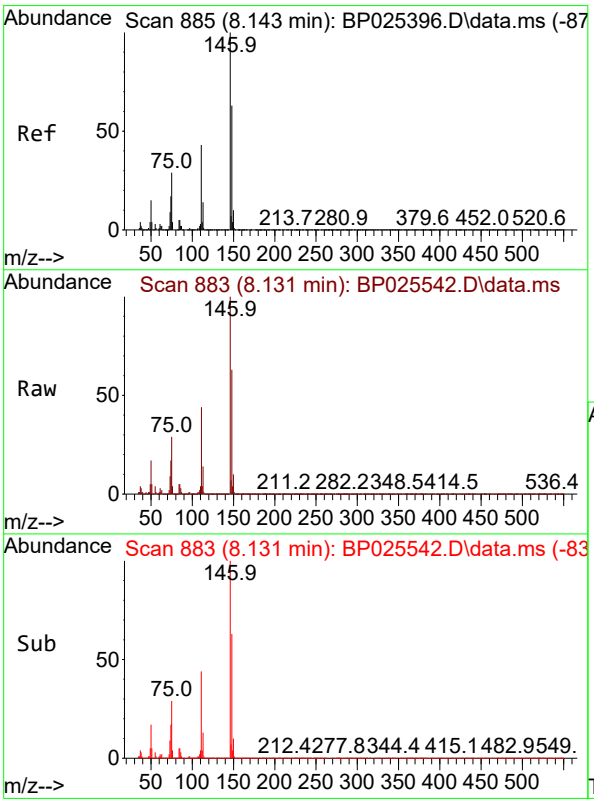
#13
1,4-Dichlorobenzene
Concen: 39.062 ng
RT: 7.813 min Scan# 8
Delta R.T. -0.018 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:146 Resp: 407112

Ion	Ratio	Lower	Upper
146	100		
148	63.9	51.6	77.4
111	42.1	33.4	50.0

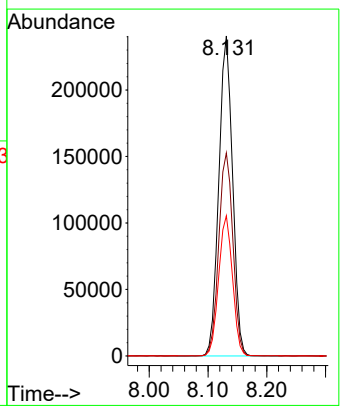


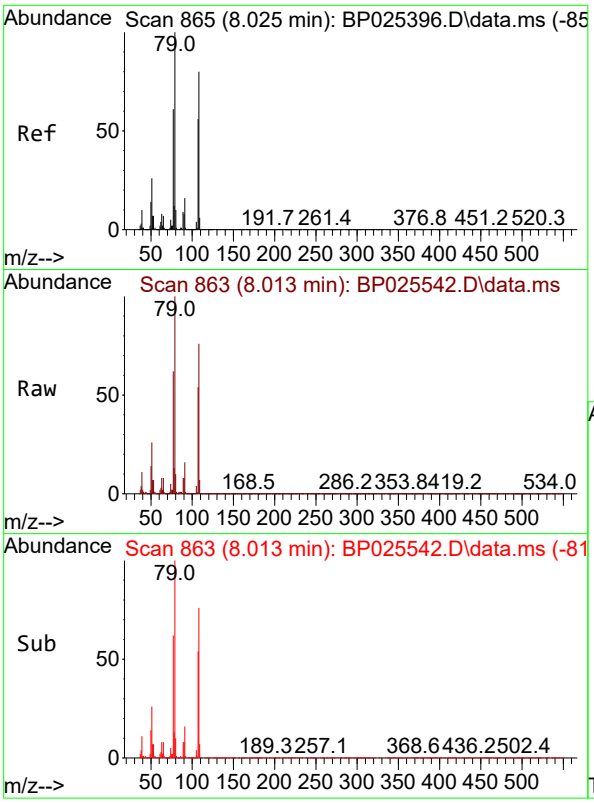


#14
1,2-Dichlorobenzene
Concen: 38.832 ng
RT: 8.131 min Scan# 883
Delta R.T. -0.012 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Tgt Ion:146 Resp: 391768

Ion	Ratio	Lower	Upper
146	100		
148	63.5	50.4	75.6
111	43.8	34.5	51.7



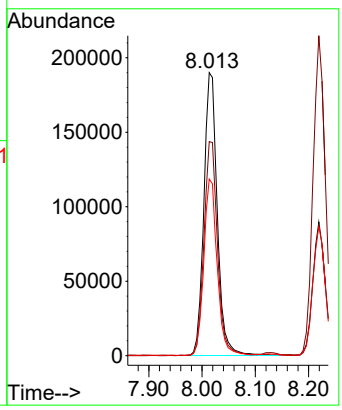


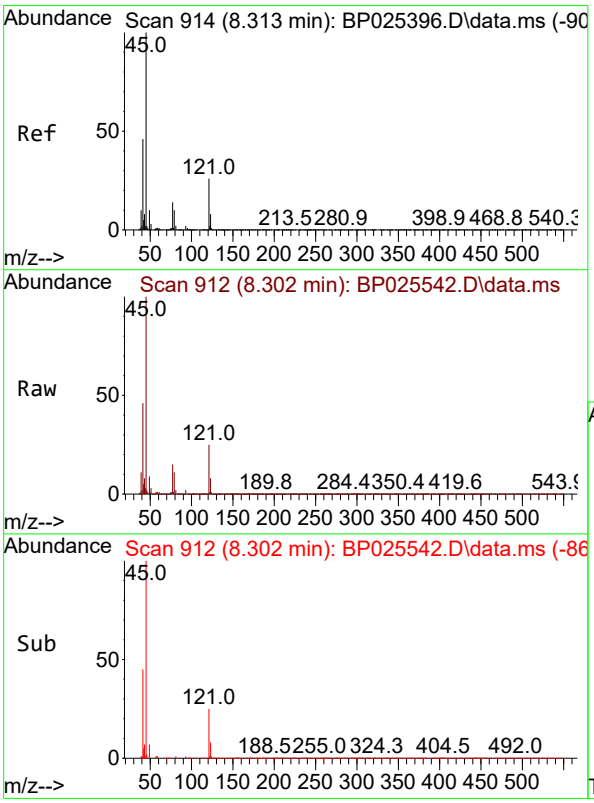
#15
Benzyl Alcohol
Concen: 39.899 ng
RT: 8.013 min Scan# 8
Delta R.T. -0.012 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 79 Resp: 333074

Ion	Ratio	Lower	Upper
79	100		
108	75.6	63.8	95.6
77	62.4	49.0	73.4

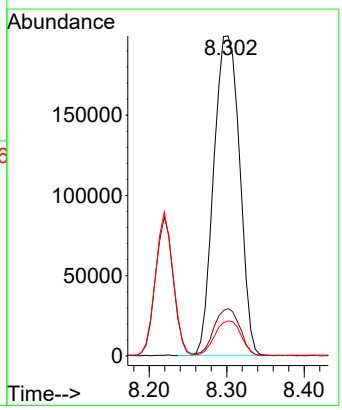


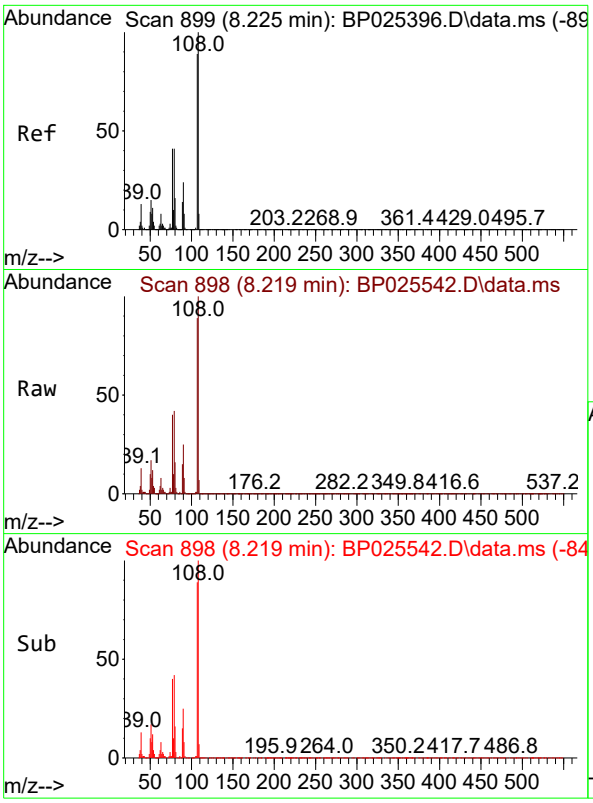


#16
2,2'-oxybis(1-Chloropropane)
Concen: 40.140 ng
RT: 8.302 min Scan# 912
Delta R.T. -0.012 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Tgt Ion: 45 Resp: 462041

Ion	Ratio	Lower	Upper
45	100		
77	14.8	0.0	35.3
79	10.9	0.0	31.8



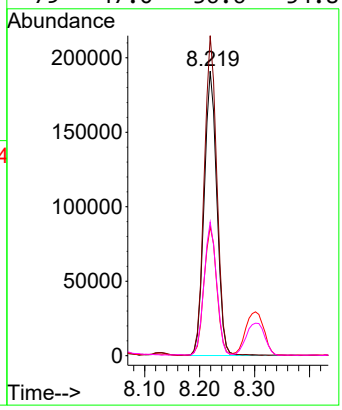


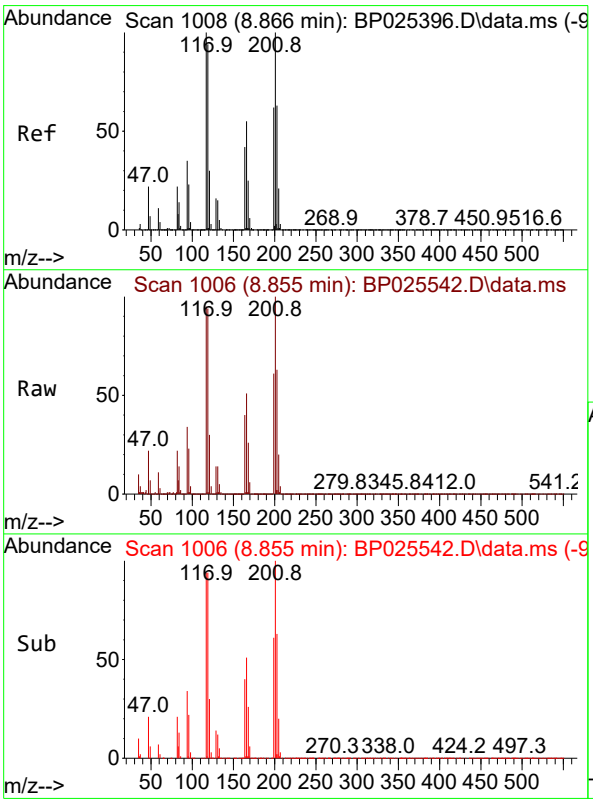
#17
2-Methylphenol
Concen: 40.046 ng
RT: 8.219 min Scan# 8
Delta R.T. -0.006 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:107 Resp: 306623

Ion	Ratio	Lower	Upper
107	100		
108	112.5	89.4	134.0
77	45.4	36.3	54.5
79	47.0	36.6	54.8

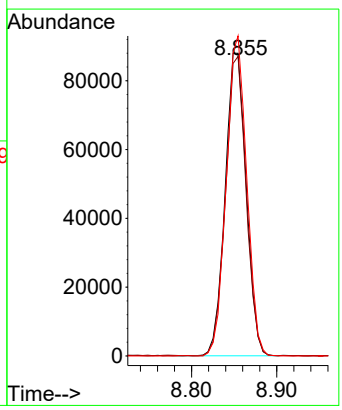


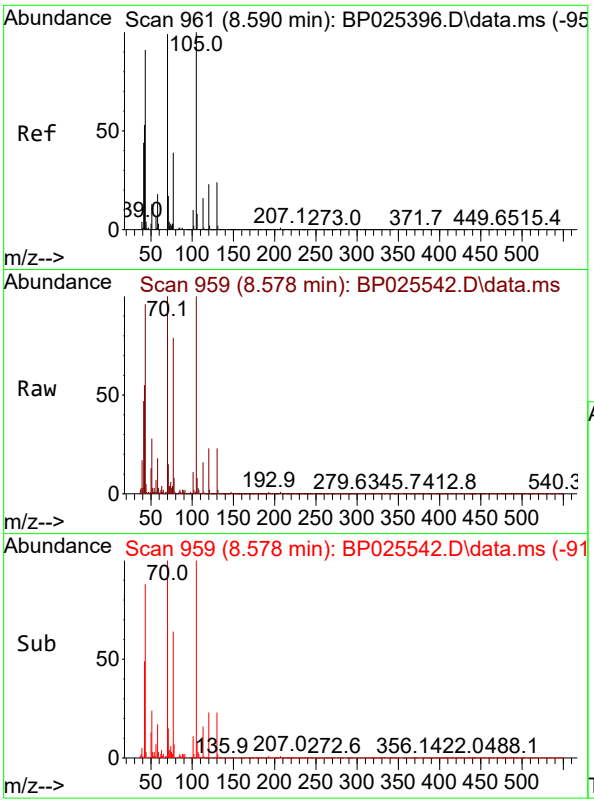


#18
Hexachloroethane
Concen: 39.613 ng
RT: 8.855 min Scan# 1006
Delta R.T. -0.012 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Tgt Ion:117 Resp: 151796

Ion	Ratio	Lower	Upper
117	100		
119	99.0	75.1	112.7
201	105.7	80.1	120.1



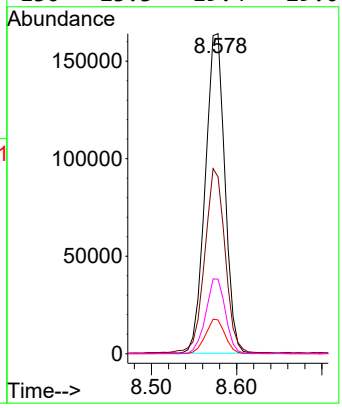


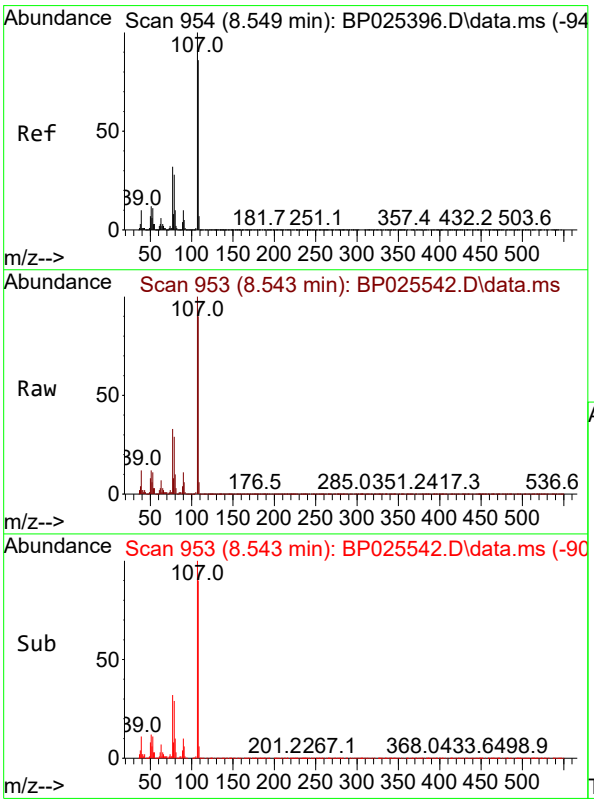
#19
n-Nitroso-di-n-propylamine
Concen: 37.556 ng
RT: 8.578 min Scan# 9
Delta R.T. -0.012 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 70 Resp: 261358

Ion	Ratio	Lower	Upper
70	100		
42	55.3	43.8	65.6
101	10.5	8.5	12.7
130	23.3	19.4	29.0

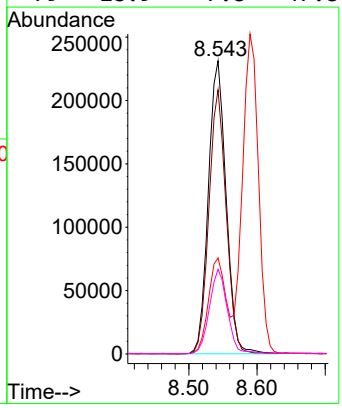


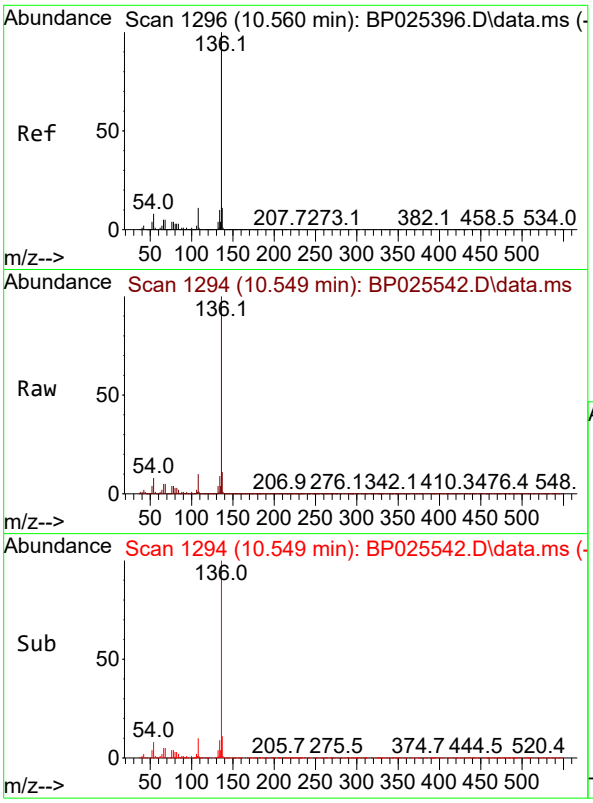


#20
3+4-Methylphenols
Concen: 39.493 ng
RT: 8.543 min Scan# 953
Delta R.T. -0.006 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Tgt Ion:107 Resp: 419151

Ion	Ratio	Lower	Upper
107	100		
108	90.1	66.3	106.3
77	32.8	12.3	52.3
79	28.9	7.8	47.8



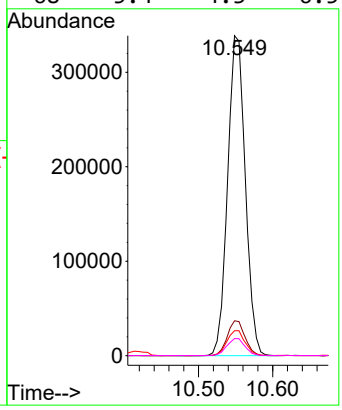


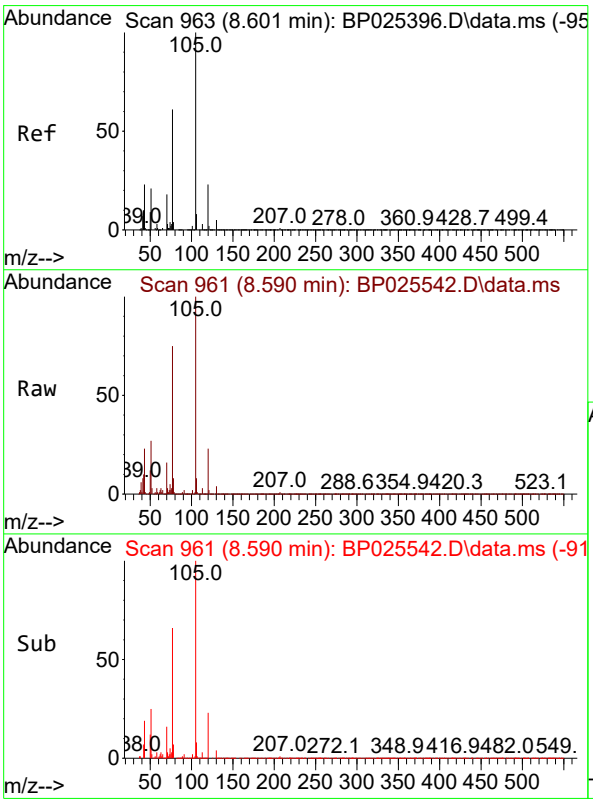
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.549 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:136 Resp: 561087

Ion	Ratio	Lower	Upper
136	100		
137	10.9	9.2	13.8
54	7.8	6.0	9.0
68	5.4	4.3	6.5

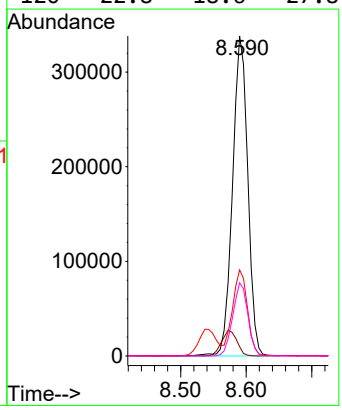


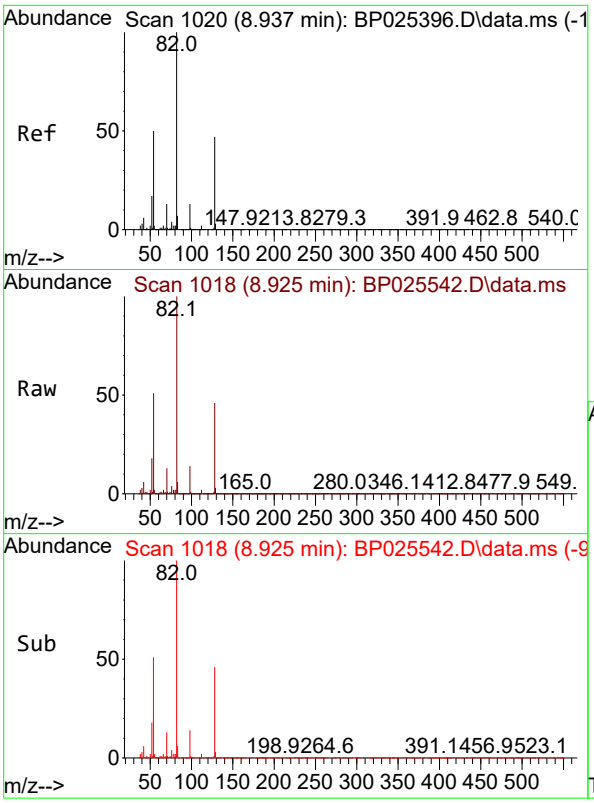


#22
Acetophenone
Concen: 38.928 ng
RT: 8.590 min Scan# 961
Delta R.T. -0.012 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Tgt Ion:105 Resp: 547747

Ion	Ratio	Lower	Upper
105	100		
71	2.9	2.6	4.0
51	26.9	20.6	30.8
120	22.8	18.6	27.8



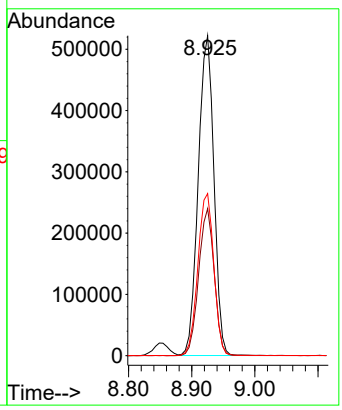


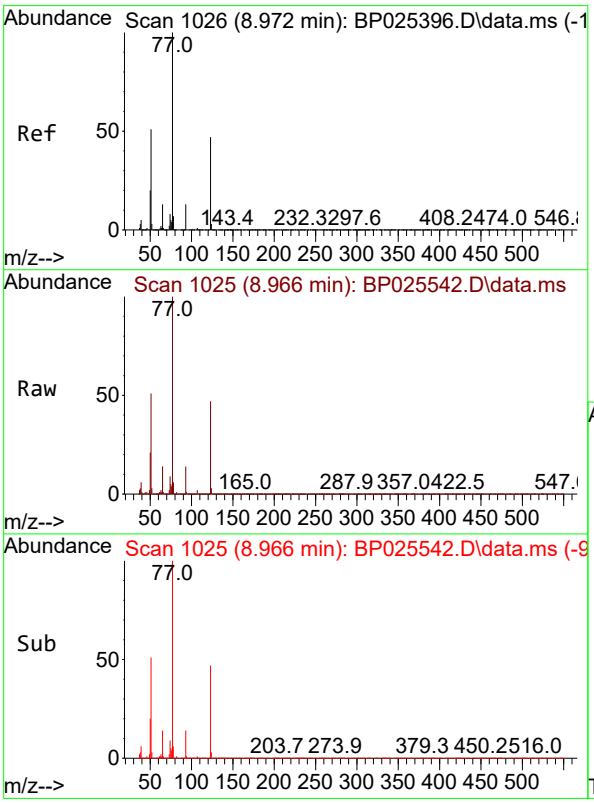
#23
Nitrobenzene-d5
Concen: 81.025 ng
RT: 8.925 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 82 Resp: 898712

Ion	Ratio	Lower	Upper
82	100		
128	46.0	37.7	56.5
54	50.7	39.8	59.6

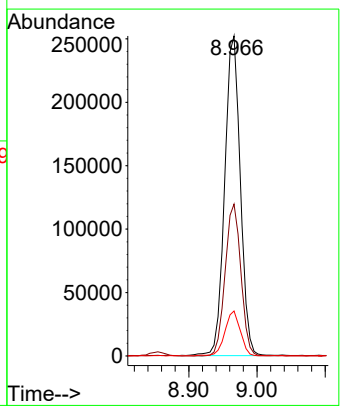


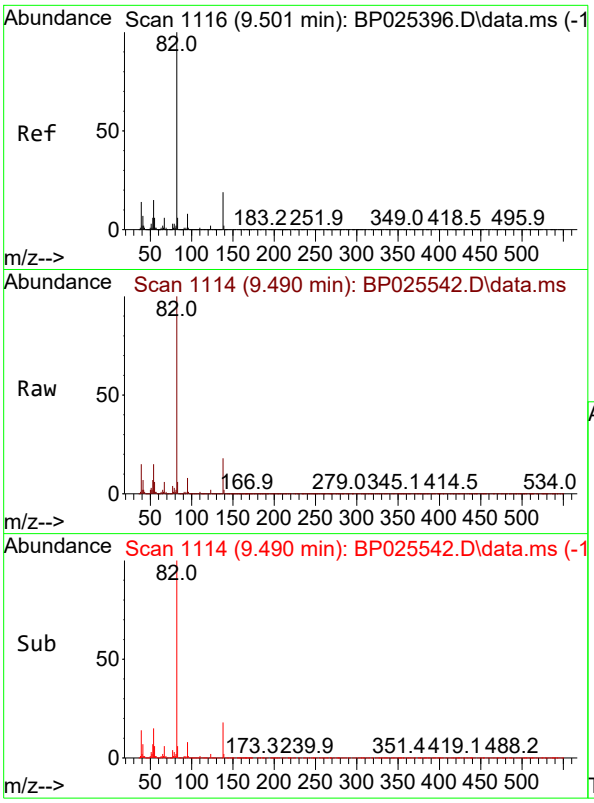


#24
Nitrobenzene
Concen: 40.614 ng
RT: 8.966 min Scan# 1025
Delta R.T. -0.006 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Tgt Ion: 77 Resp: 402602

Ion	Ratio	Lower	Upper
77	100		
123	47.4	38.6	58.0
65	14.0	10.6	15.8



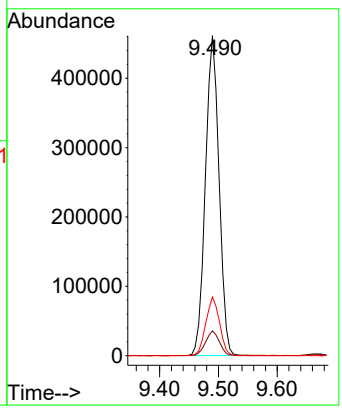


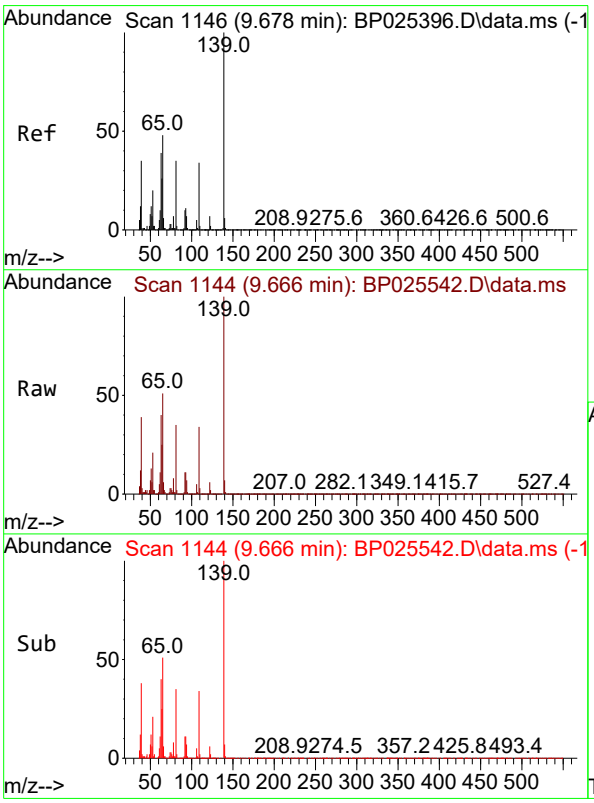
#25
Isophorone
Concen: 37.953 ng
RT: 9.490 min Scan# 11
Delta R.T. -0.012 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 82 Resp: 744998

Ion	Ratio	Lower	Upper
82	100		
95	7.7	6.4	9.6
138	18.4	15.4	23.0

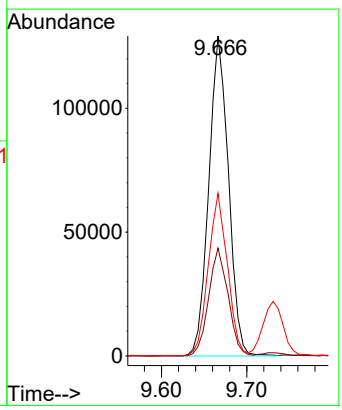


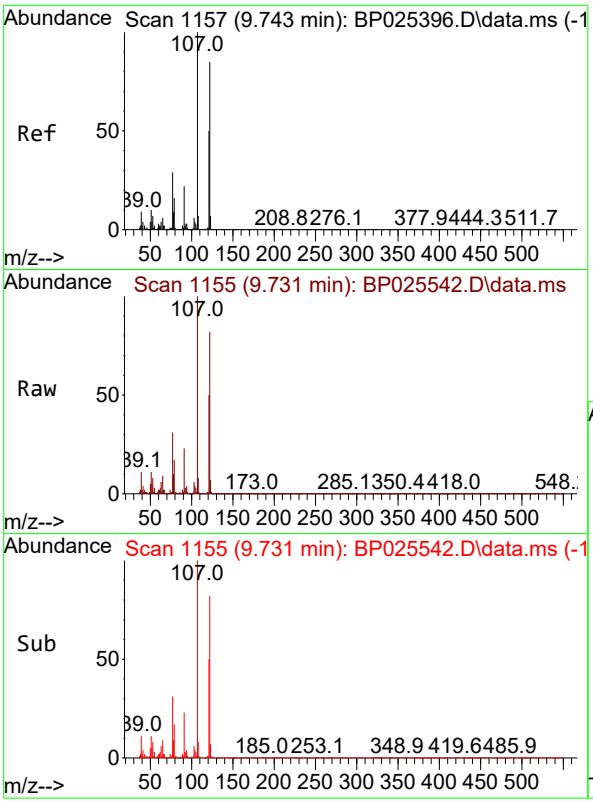


#26
2-Nitrophenol
Concen: 40.687 ng
RT: 9.666 min Scan# 1144
Delta R.T. -0.012 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Tgt Ion:139 Resp: 206989

Ion	Ratio	Lower	Upper
139	100		
109	33.7	26.9	40.3
65	50.8	38.3	57.5



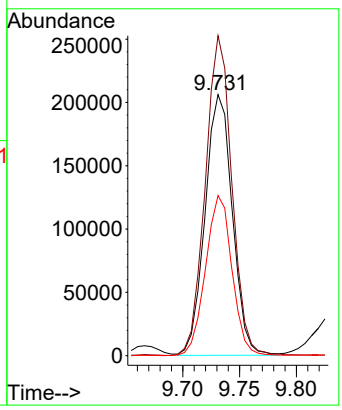


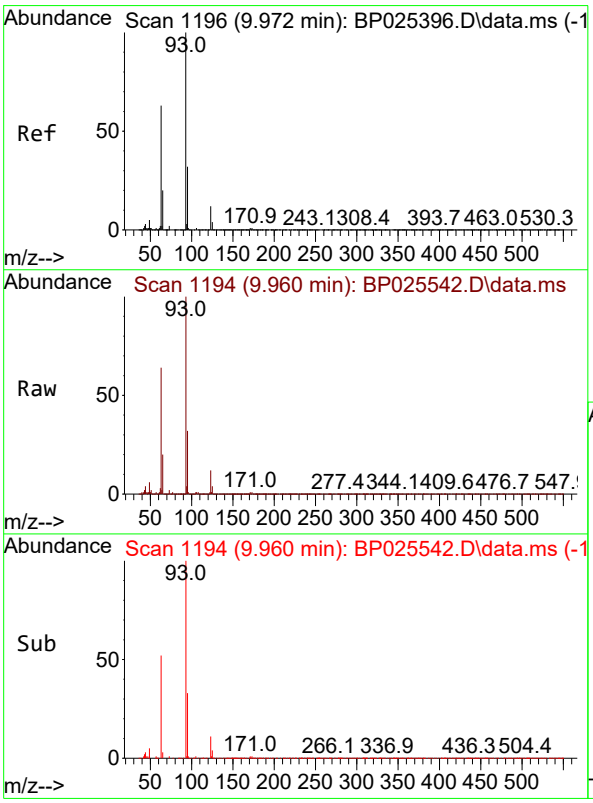
#27
2,4-Dimethylphenol
Concen: 39.319 ng
RT: 9.731 min Scan# 11
Delta R.T. -0.012 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:122 Resp: 343995

Ion	Ratio	Lower	Upper
122	100		
107	122.5	93.7	140.5
121	61.3	46.6	69.8

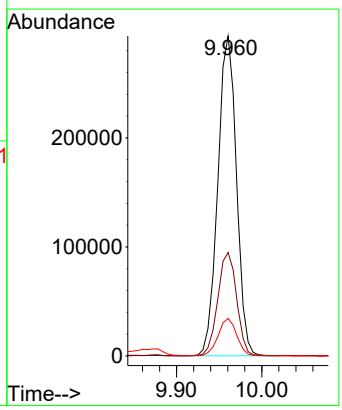


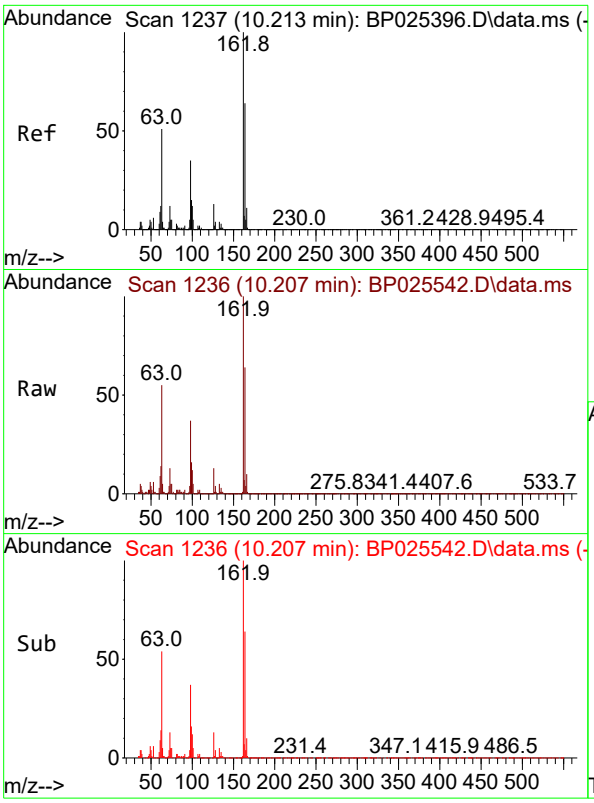


#28
bis(2-Chloroethoxy)methane
Concen: 37.564 ng
RT: 9.960 min Scan# 1194
Delta R.T. -0.012 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Tgt Ion: 93 Resp: 445729

Ion	Ratio	Lower	Upper
93	100		
95	32.3	25.4	38.0
123	11.7	9.4	14.0



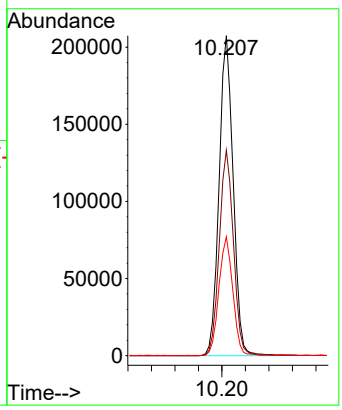


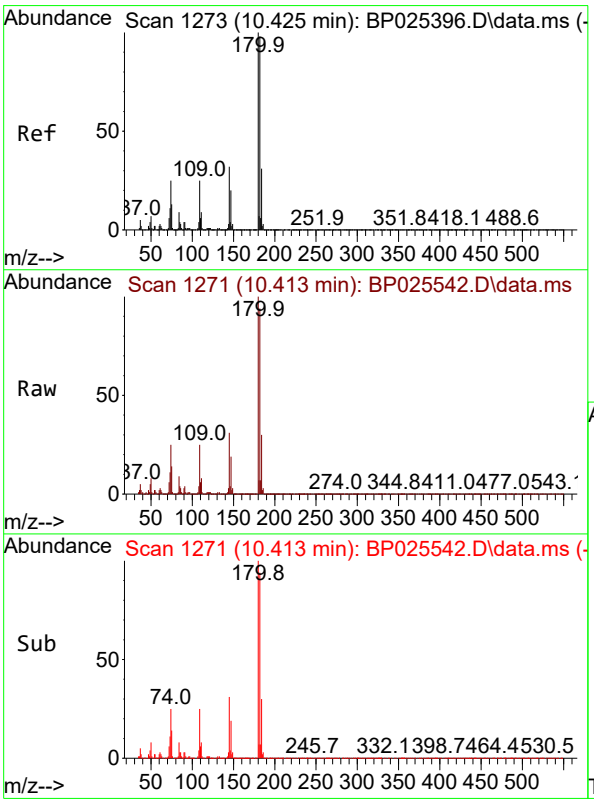
#29
2,4-Dichlorophenol
Concen: 39.571 ng
RT: 10.207 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:162 Resp: 343907

Ion	Ratio	Lower	Upper
162	100		
164	64.2	44.4	84.4
98	37.1	14.9	54.9

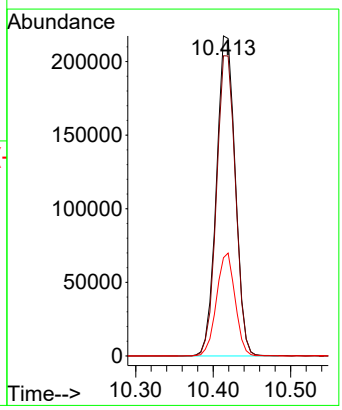


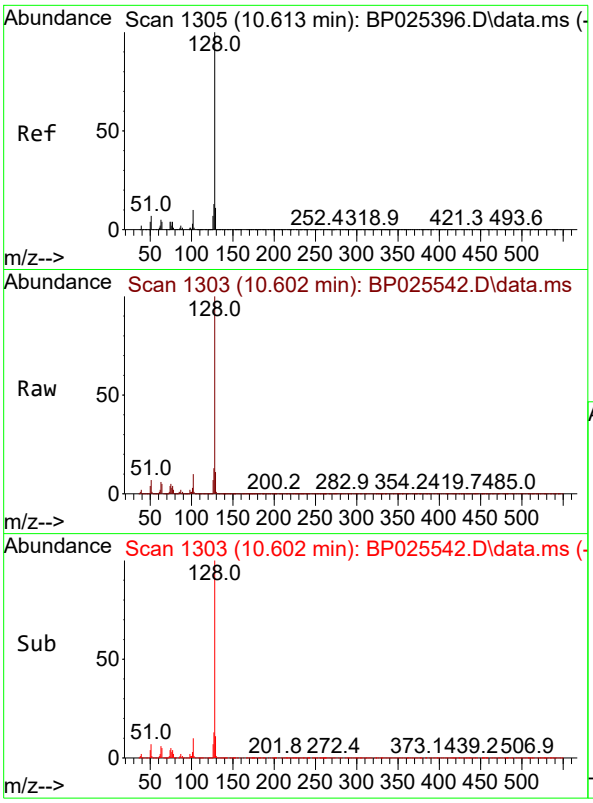


#30
1,2,4-Trichlorobenzene
Concen: 38.564 ng
RT: 10.413 min Scan# 1271
Delta R.T. -0.012 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Tgt Ion:180 Resp: 367404

Ion	Ratio	Lower	Upper
180	100		
182	93.8	78.0	117.0
145	30.7	25.9	38.9



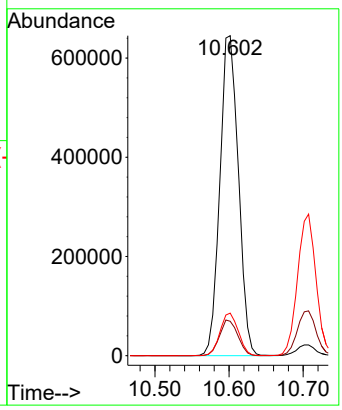


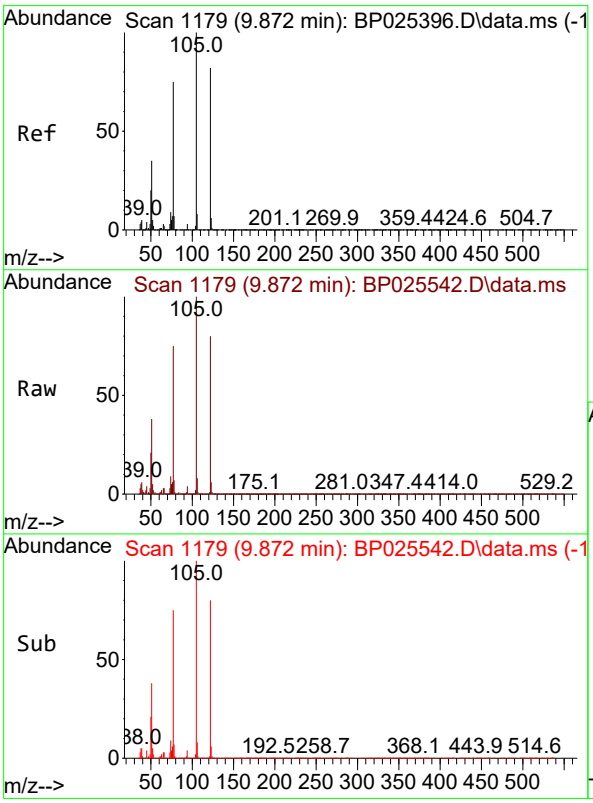
#31
Naphthalene
Concen: 38.386 ng
RT: 10.602 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:128 Resp: 1119457

Ion	Ratio	Lower	Upper
128	100		
129	10.8	8.6	13.0
127	13.3	10.7	16.1

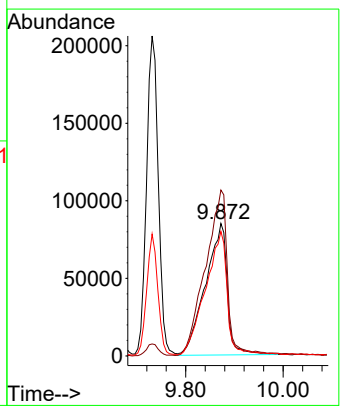


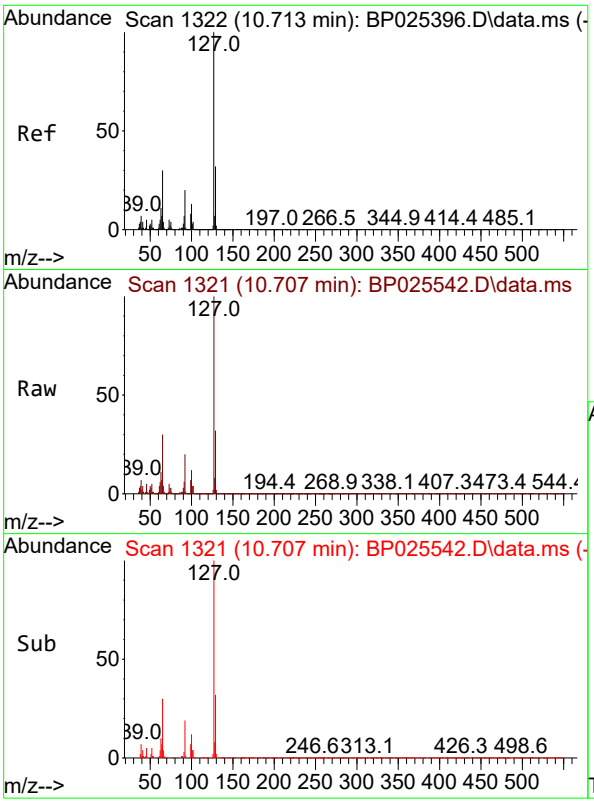


#32
Benzoic acid
Concen: 40.832 ng
RT: 9.872 min Scan# 1179
Delta R.T. 0.000 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Tgt Ion:122 Resp: 263736

Ion	Ratio	Lower	Upper
122	100		
105	125.3	100.6	140.6
77	94.0	71.5	111.5



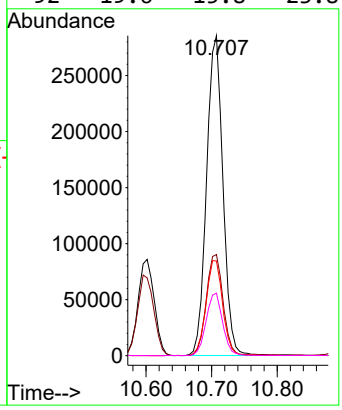


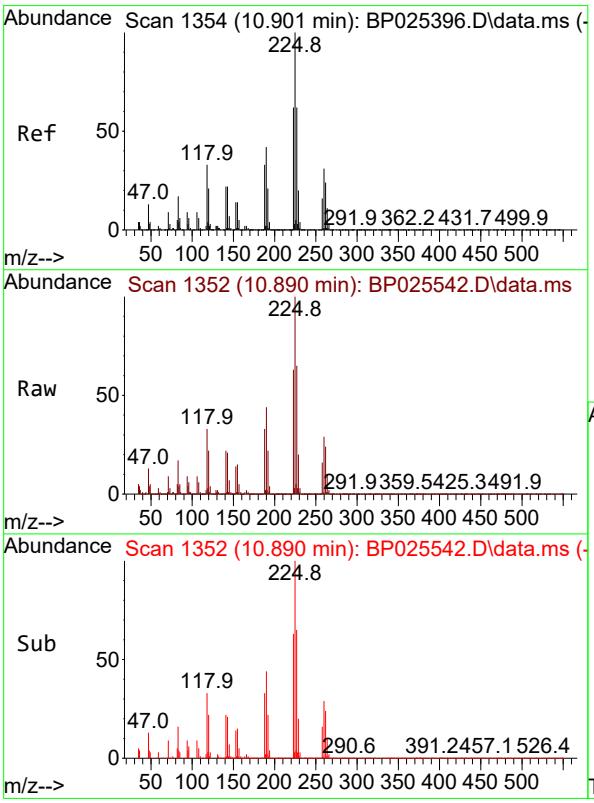
#33
4-Chloroaniline
Concen: 38.492 ng
RT: 10.707 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:127 Resp: 495841

Ion	Ratio	Lower	Upper
127	100		
129	31.6	25.4	38.2
65	29.6	23.8	35.6
92	19.6	15.8	23.8

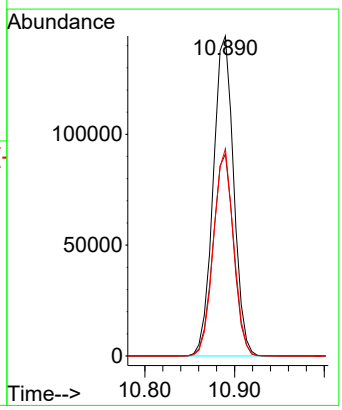


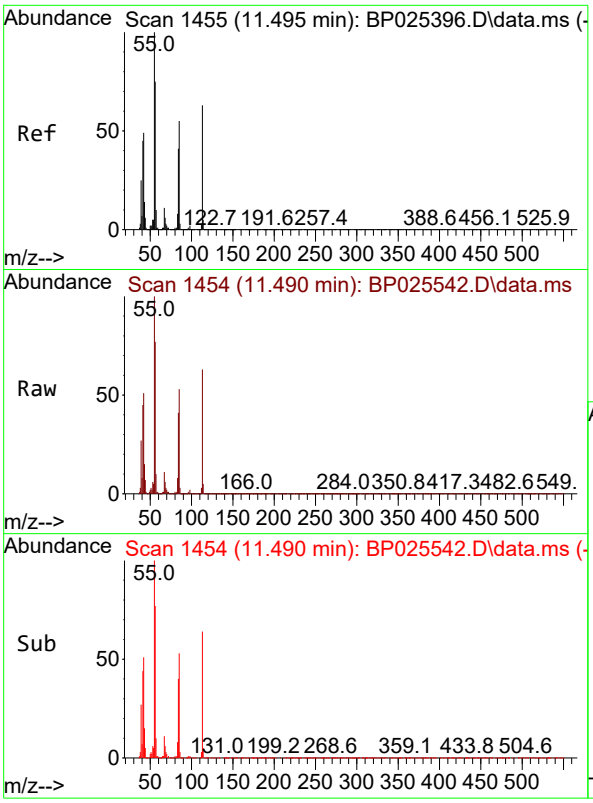


#34
Hexachlorobutadiene
Concen: 38.476 ng
RT: 10.890 min Scan# 1352
Delta R.T. -0.012 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Tgt Ion:225 Resp: 228289

Ion	Ratio	Lower	Upper
225	100		
223	63.1	50.0	75.0
227	64.8	49.7	74.5



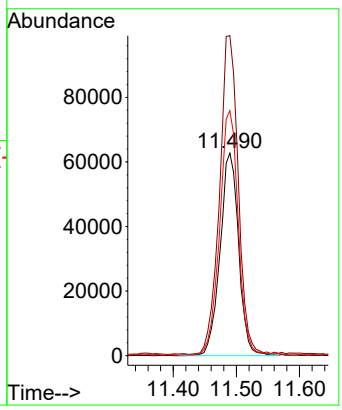


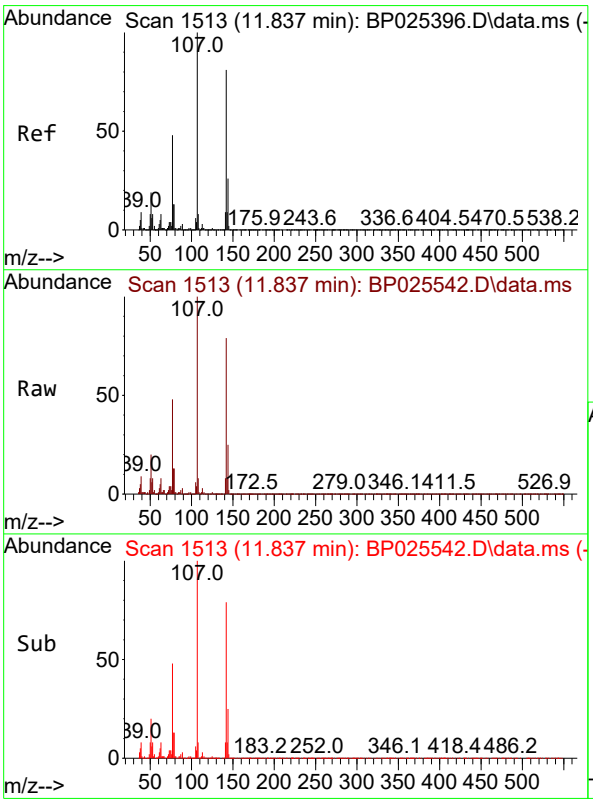
#35
Caprolactam
Concen: 40.117 ng
RT: 11.490 min Scan# 14
Delta R.T. -0.006 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:113 Resp: 127845

Ion	Ratio	Lower	Upper
113	100		
55	158.0	140.0	180.0
56	121.0	100.0	140.0

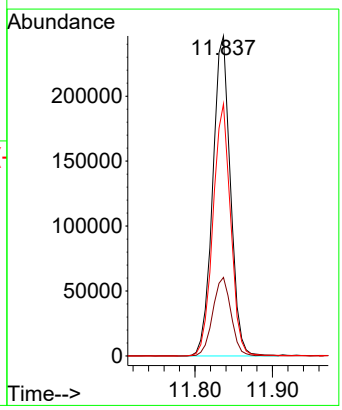


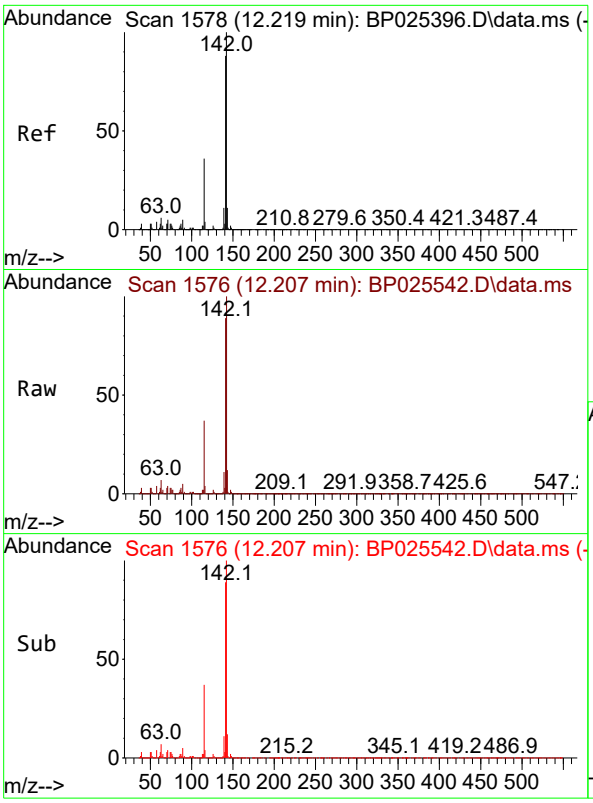


#36
4-Chloro-3-methylphenol
Concen: 39.266 ng
RT: 11.837 min Scan# 1513
Delta R.T. 0.000 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Tgt Ion:107 Resp: 391584

Ion	Ratio	Lower	Upper
107	100		
144	24.6	21.0	31.4
142	78.7	64.6	97.0



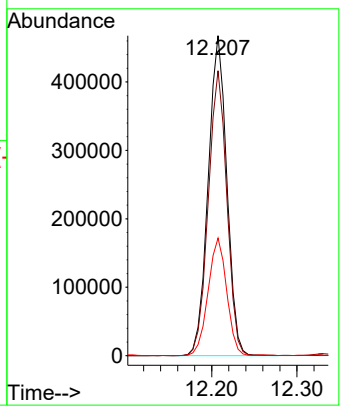


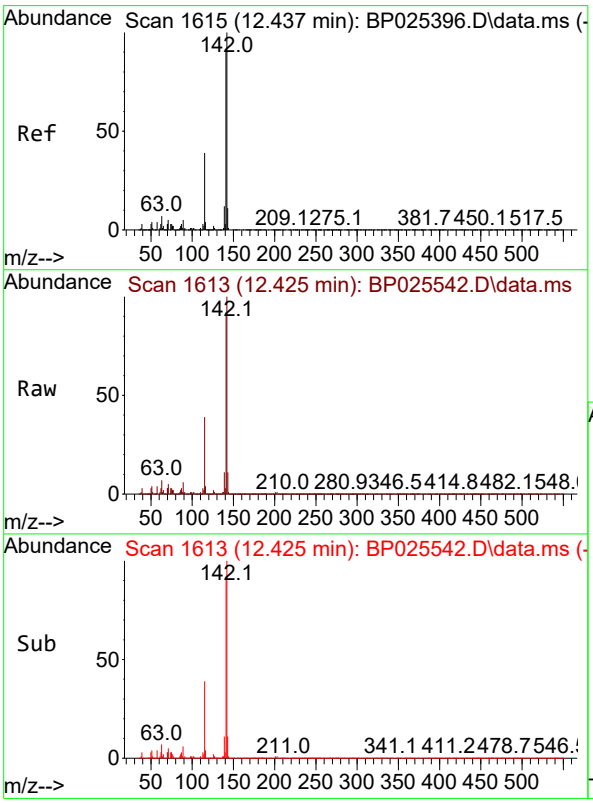
#37
2-Methylnaphthalene
Concen: 37.480 ng
RT: 12.207 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:142 Resp: 711313

Ion	Ratio	Lower	Upper
142	100		
141	89.1	70.3	105.5
115	36.8	28.9	43.3

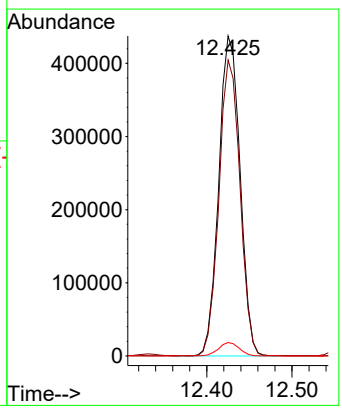


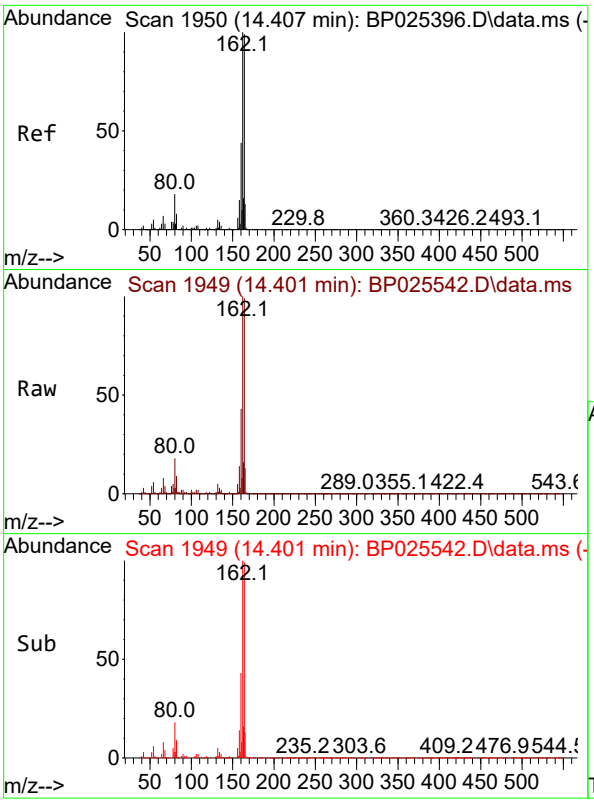


#38
1-Methylnaphthalene
Concen: 37.614 ng
RT: 12.425 min Scan# 1613
Delta R.T. -0.012 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Tgt Ion:142 Resp: 759140

Ion	Ratio	Lower	Upper
142	100		
141	92.4	73.1	109.7
116	4.2	3.2	4.8



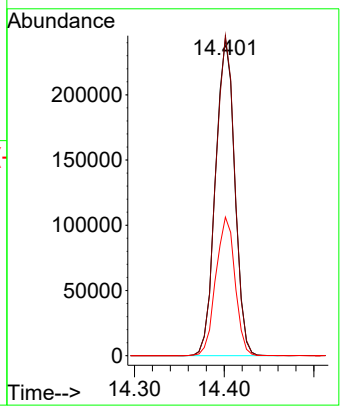


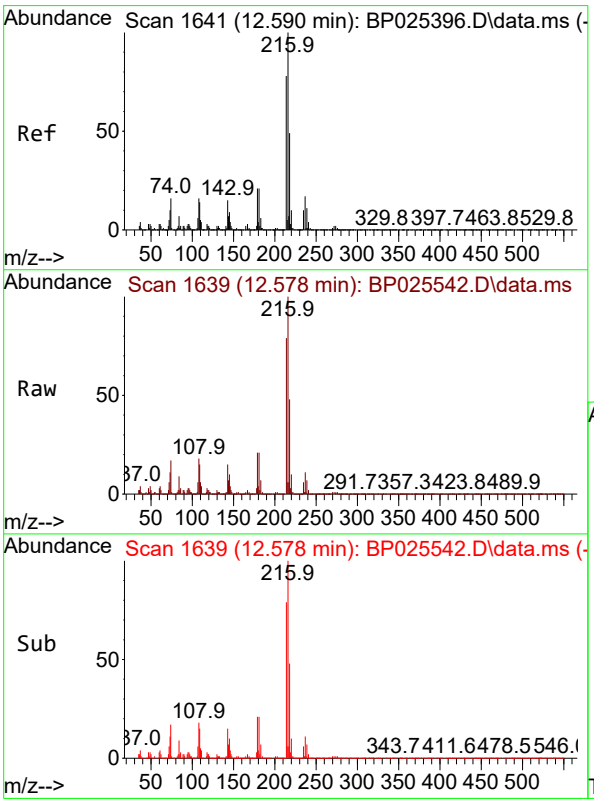
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.401 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:164 Resp: 361820

Ion	Ratio	Lower	Upper
164	100		
162	100.9	81.0	121.6
160	43.7	35.4	53.2

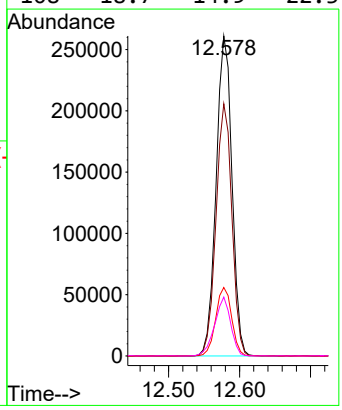


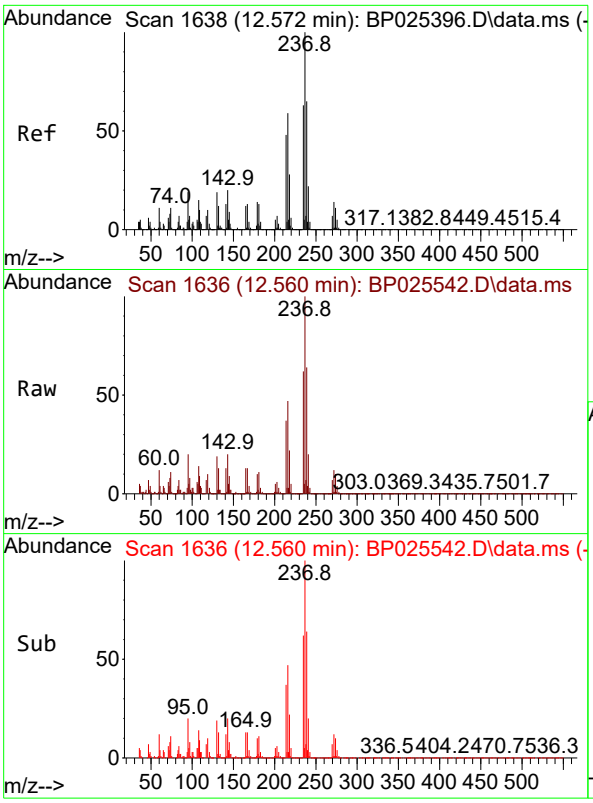


#40
1,2,4,5-Tetrachlorobenzene
Concen: 38.576 ng
RT: 12.578 min Scan# 1639
Delta R.T. -0.012 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Tgt Ion:216 Resp: 403111

Ion	Ratio	Lower	Upper
216	100		
214	78.8	63.0	94.4
179	21.6	17.1	25.7
108	18.7	14.9	22.3



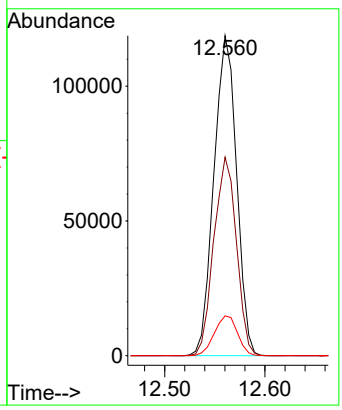


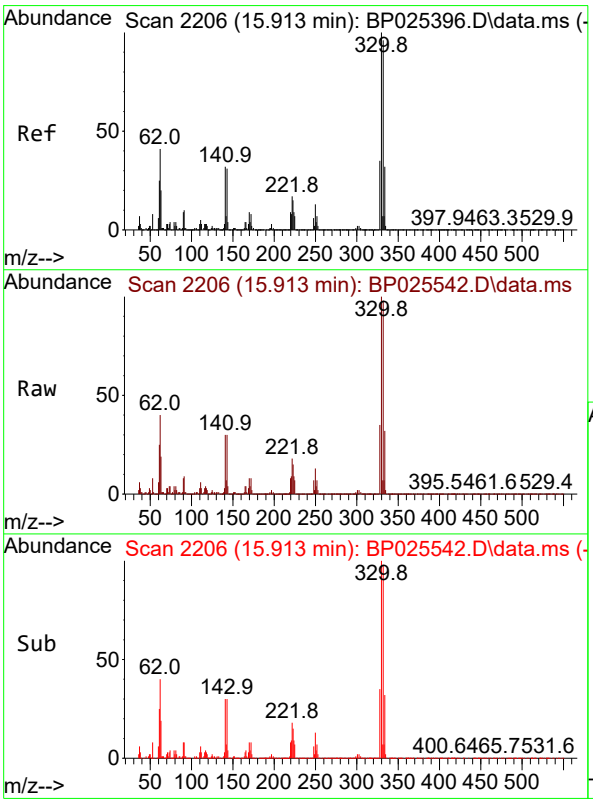
#41
Hexachlorocyclopentadiene
Concen: 29.463 ng
RT: 12.560 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:237 Resp: 185973

Ion	Ratio	Lower	Upper
237	100		
235	62.0	42.7	82.7
272	12.5	0.0	34.0

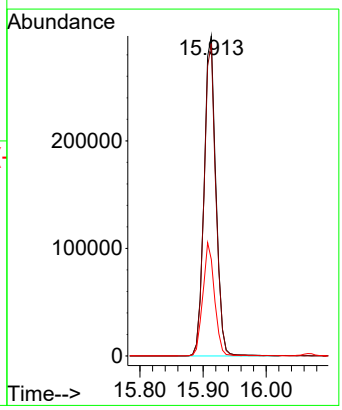


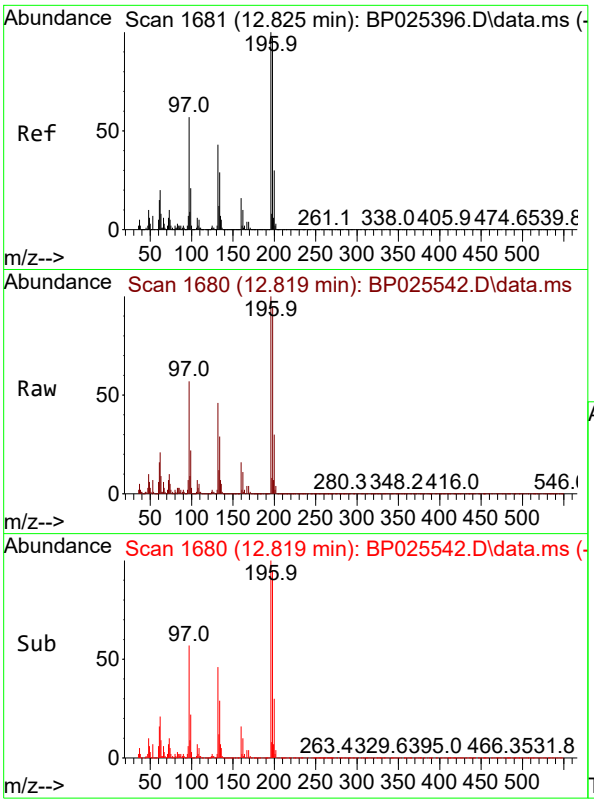


#42
2,4,6-Tribromophenol
Concen: 79.265 ng
RT: 15.913 min Scan# 2206
Delta R.T. 0.000 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Tgt Ion:330 Resp: 386032

Ion	Ratio	Lower	Upper
330	100		
332	97.1	77.3	115.9
141	34.8	26.6	39.8



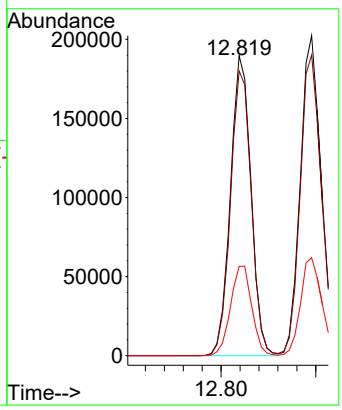


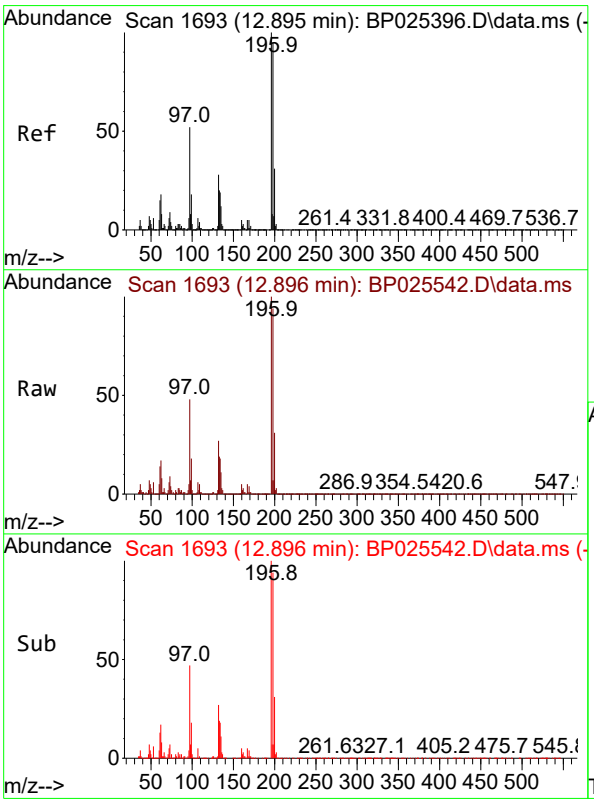
#43
2,4,6-Trichlorophenol
Concen: 40.614 ng
RT: 12.819 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:196 Resp: 286518

Ion	Ratio	Lower	Upper
196	100		
198	94.9	77.2	115.8
200	29.8	23.9	35.9

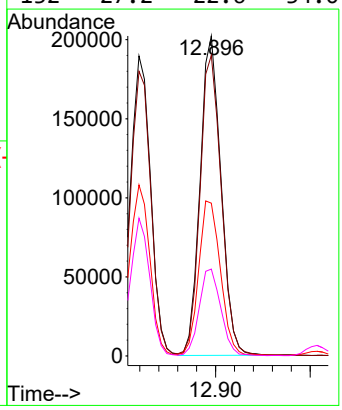


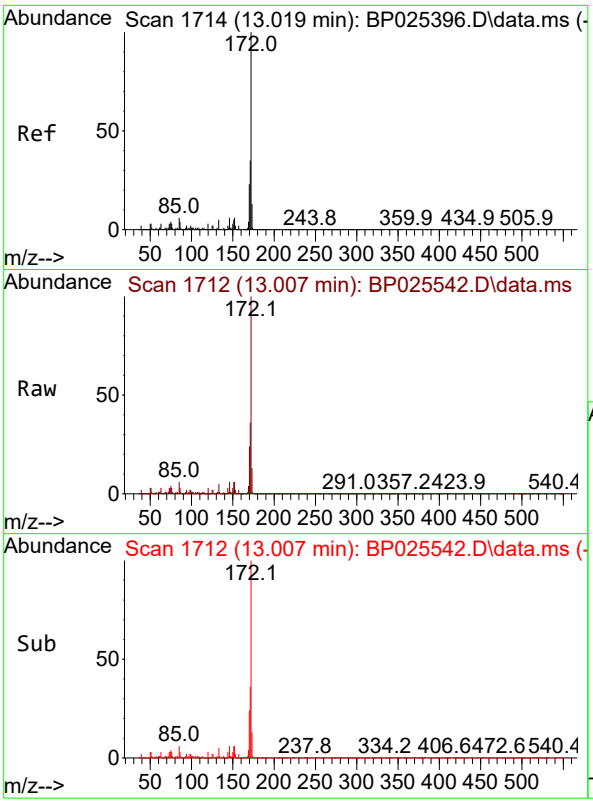


#44
2,4,5-Trichlorophenol
Concen: 40.151 ng
RT: 12.896 min Scan# 1693
Delta R.T. 0.000 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Tgt Ion:196 Resp: 310439

Ion	Ratio	Lower	Upper
196	100		
198	93.9	76.2	114.2
97	47.8	41.2	61.8
132	27.2	22.6	34.0



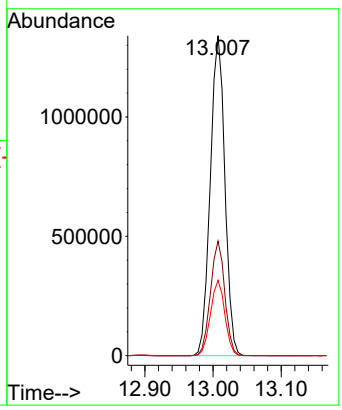


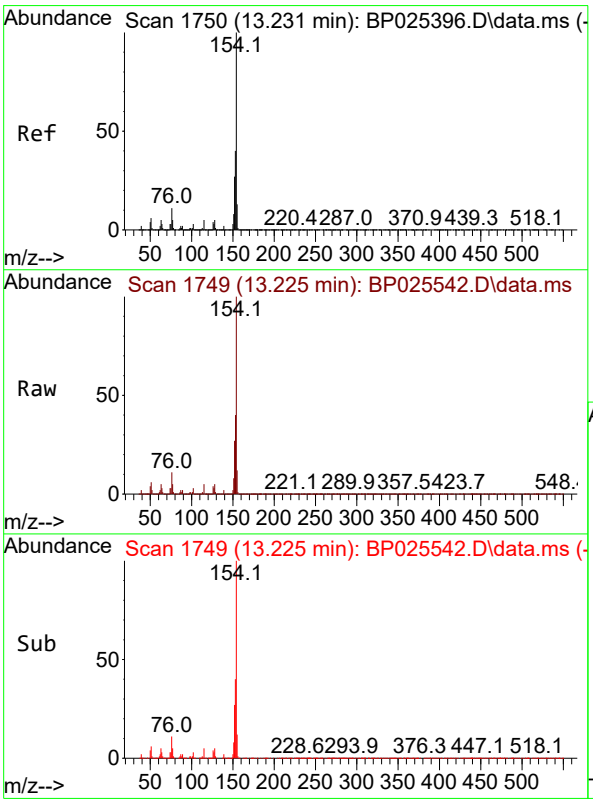
#45
2-Fluorobiphenyl
Concen: 75.290 ng
RT: 13.007 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:172 Resp: 1993253

Ion	Ratio	Lower	Upper
172	100		
171	35.8	28.1	42.1
170	23.6	18.6	28.0

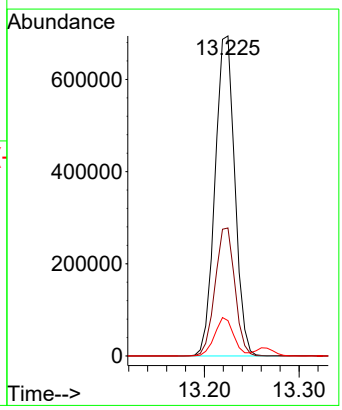


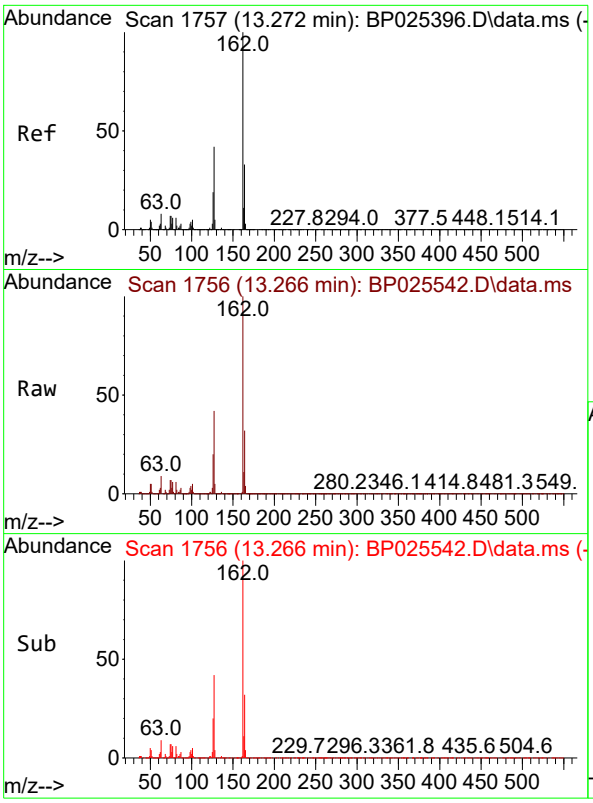


#46
1,1'-Biphenyl
Concen: 38.311 ng
RT: 13.225 min Scan# 1749
Delta R.T. -0.006 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Tgt Ion:154 Resp: 1006707

Ion	Ratio	Lower	Upper
154	100		
153	40.0	19.5	59.5
76	11.1	0.0	31.1



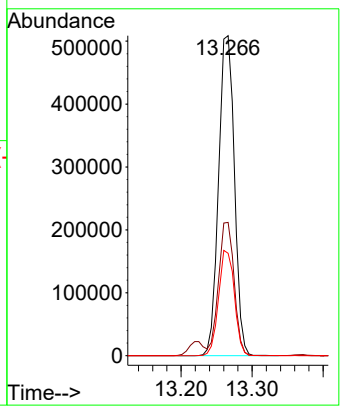


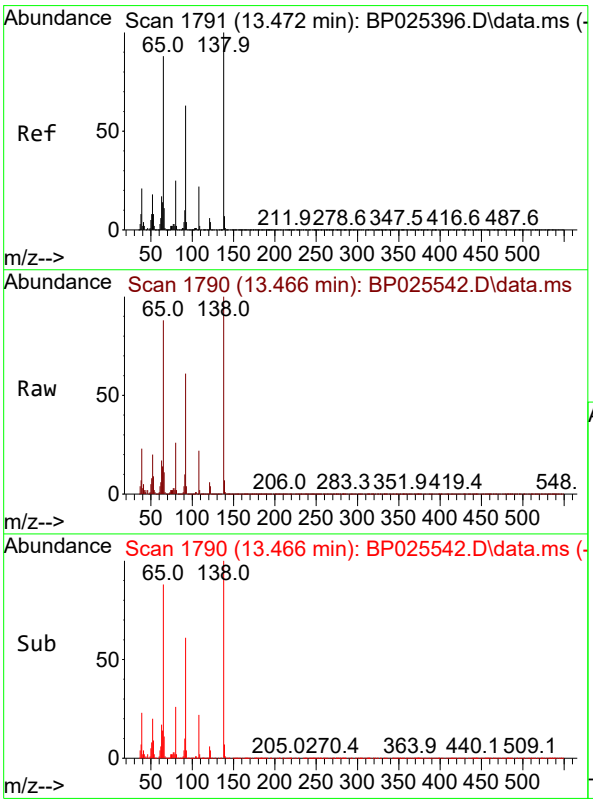
#47
2-Chloronaphthalene
Concen: 38.384 ng
RT: 13.266 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:162 Resp: 785215

Ion	Ratio	Lower	Upper
162	100		
127	41.7	33.4	50.2
164	32.0	26.2	39.2

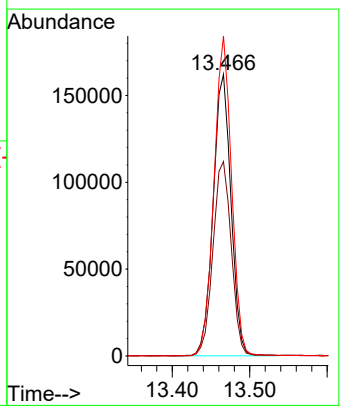


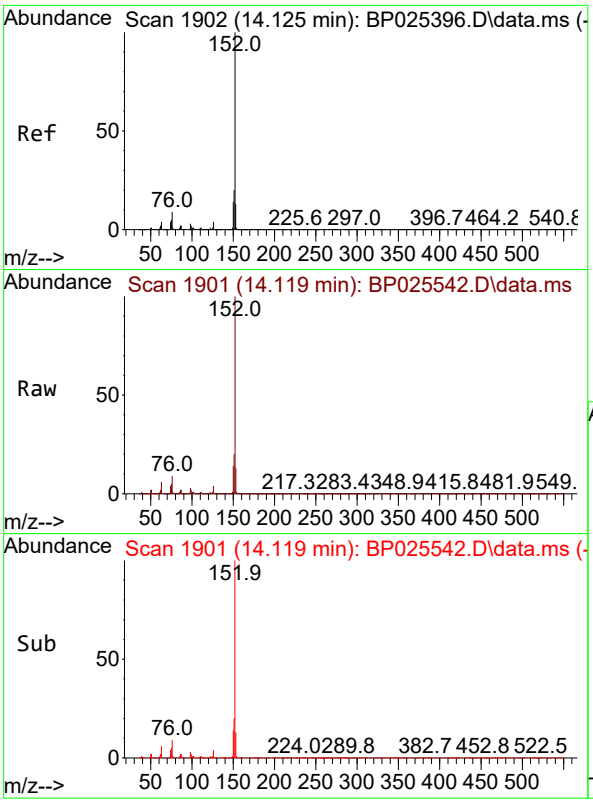


#48
2-Nitroaniline
Concen: 43.505 ng
RT: 13.466 min Scan# 1790
Delta R.T. -0.006 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Tgt Ion: 65 Resp: 259315

Ion	Ratio	Lower	Upper
65	100		
92	69.1	57.6	86.4
138	113.7	91.0	136.6



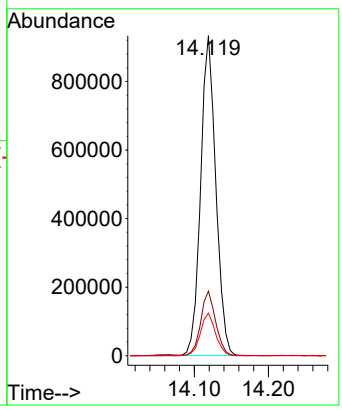


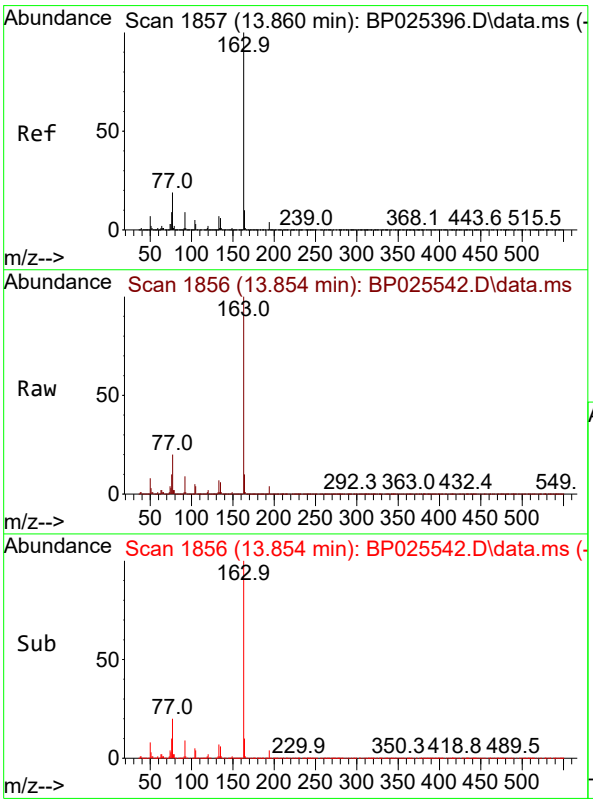
#49
Acenaphthylene
Concen: 39.147 ng
RT: 14.119 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:152 Resp: 1325117

Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.0	24.0
153	13.3	10.6	15.8

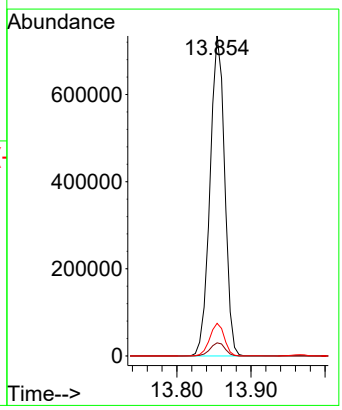


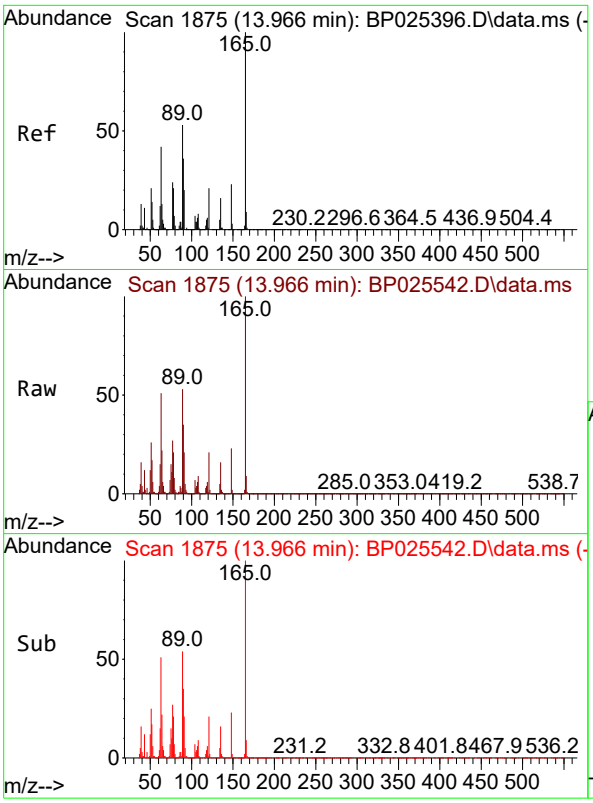


#50
Dimethylphthalate
Concen: 38.049 ng
RT: 13.854 min Scan# 1856
Delta R.T. -0.006 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Tgt Ion:163 Resp: 1008135

Ion	Ratio	Lower	Upper
163	100		
194	4.1	3.4	5.0
164	10.2	7.9	11.9



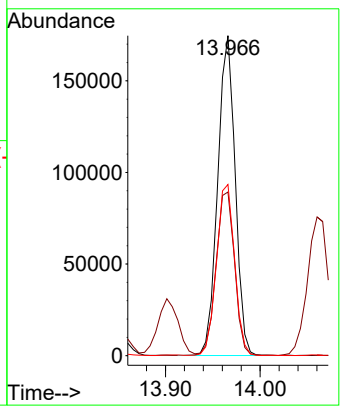


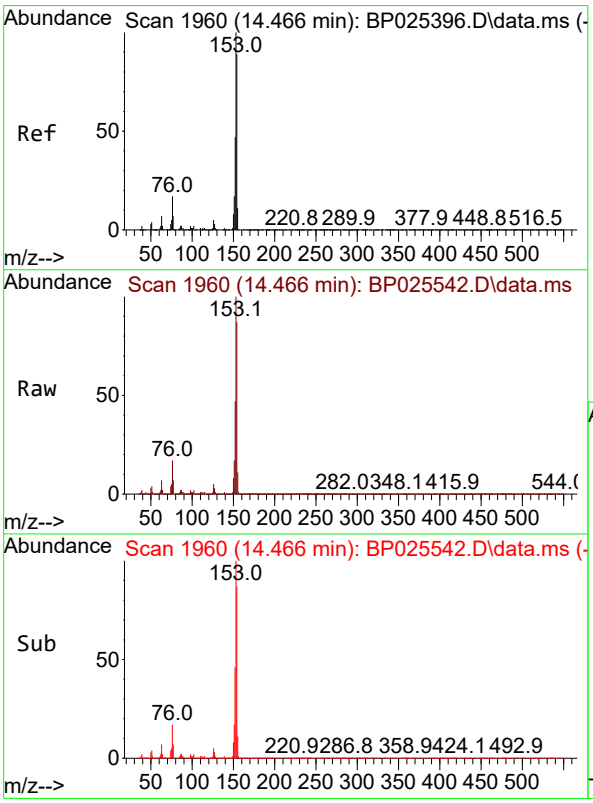
#51
2,6-Dinitrotoluene
Concen: 40.158 ng
RT: 13.966 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:165 Resp: 224262

Ion	Ratio	Lower	Upper
165	100		
63	51.1	40.9	61.3
89	53.5	42.1	63.1

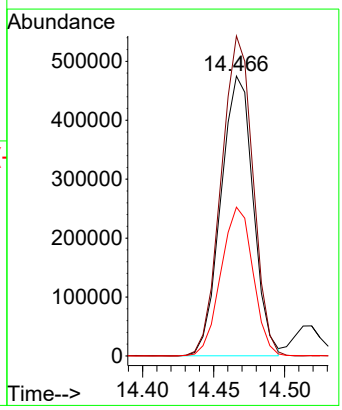


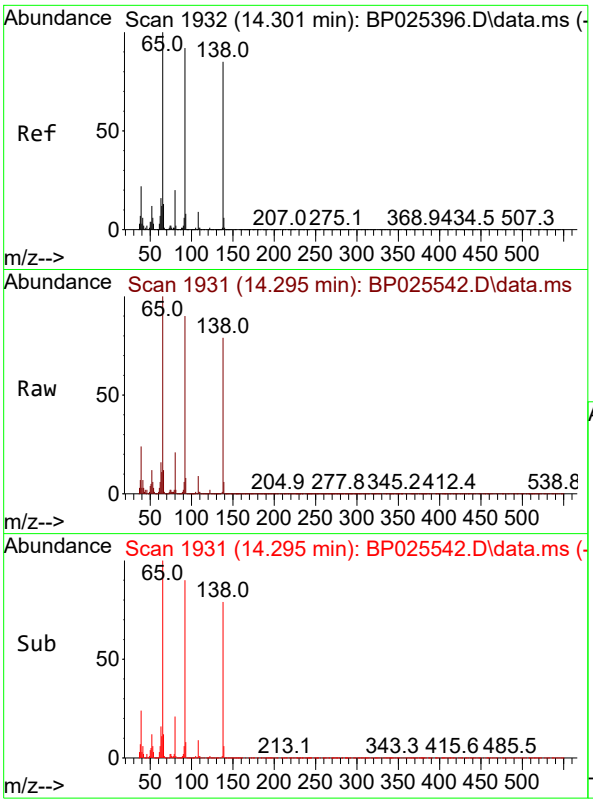


#52
Acenaphthene
Concen: 37.805 ng
RT: 14.466 min Scan# 1960
Delta R.T. 0.000 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Tgt Ion:154 Resp: 751169

Ion	Ratio	Lower	Upper
154	100		
153	114.3	90.2	135.2
152	53.2	42.1	63.1



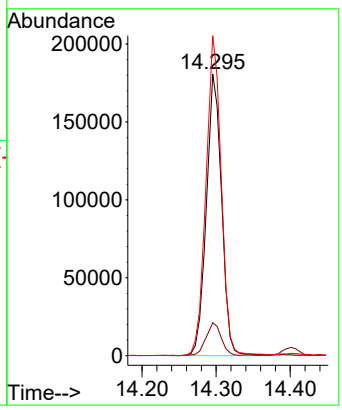


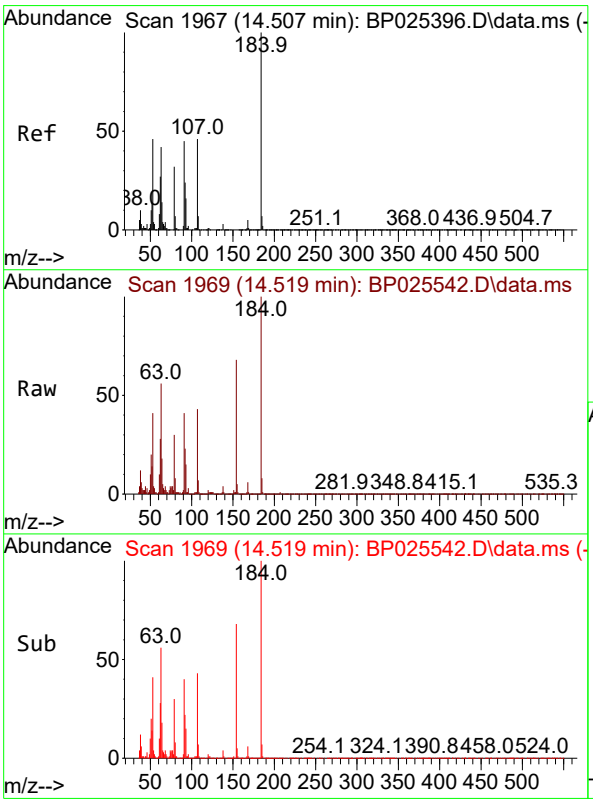
#53
3-Nitroaniline
Concen: 41.145 ng
RT: 14.295 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:138 Resp: 258517

Ion	Ratio	Lower	Upper
138	100		
108	11.7	8.3	12.5
92	113.6	86.2	129.2

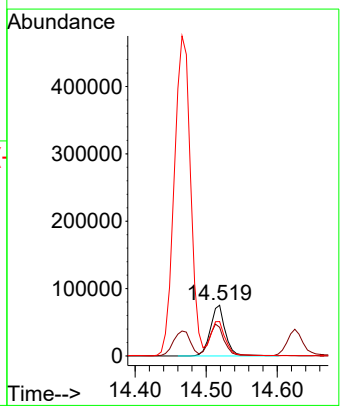


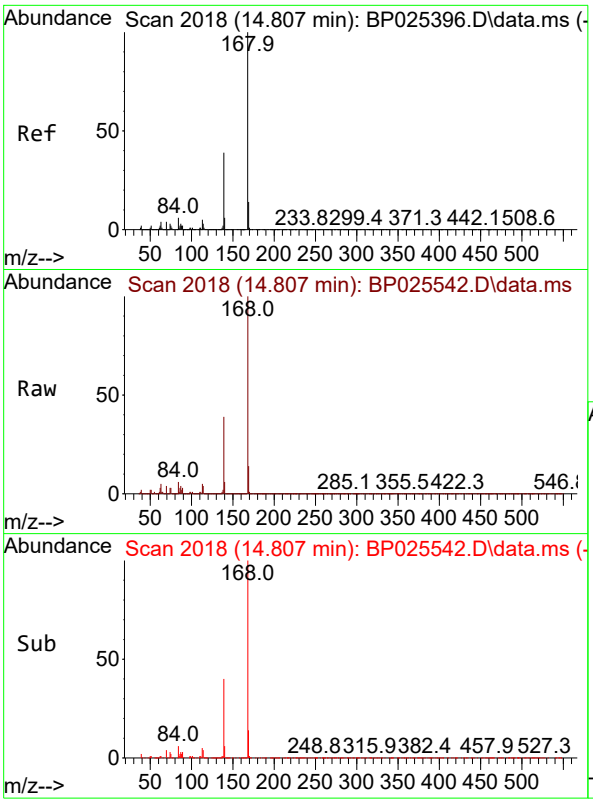


#54
2,4-Dinitrophenol
Concen: 36.791 ng
RT: 14.519 min Scan# 1969
Delta R.T. 0.012 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Tgt Ion:184 Resp: 109722

Ion	Ratio	Lower	Upper
184	100		
63	56.3	49.4	74.2
154	67.8	54.6	82.0



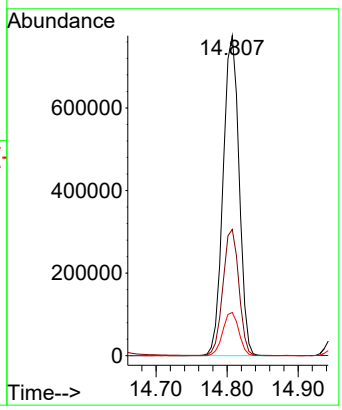


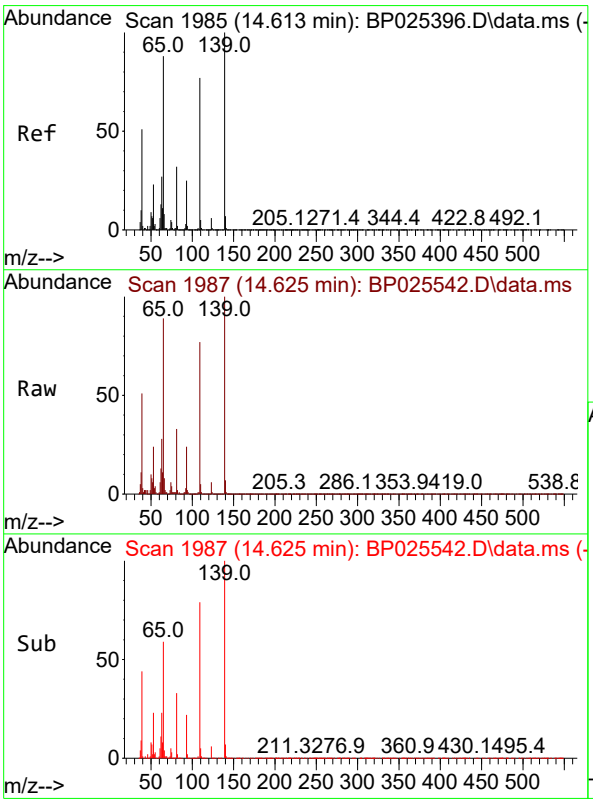
#55
Dibenzofuran
Concen: 38.412 ng
RT: 14.807 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:168 Resp: 1206654

Ion	Ratio	Lower	Upper
168	100		
139	39.5	31.5	47.3
169	13.5	10.9	16.3

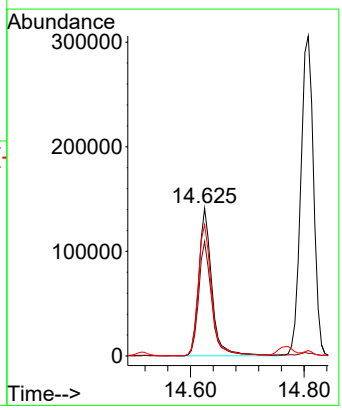


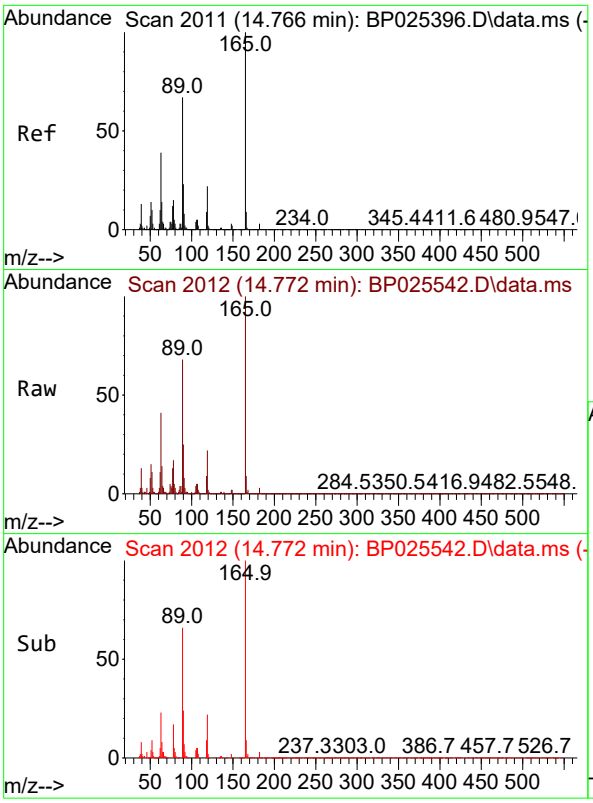


#56
4-Nitrophenol
Concen: 43.509 ng
RT: 14.625 min Scan# 1987
Delta R.T. 0.012 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Tgt Ion:139 Resp: 224642

Ion	Ratio	Lower	Upper
139	100		
109	77.5	56.6	96.6
65	89.0	68.2	108.2



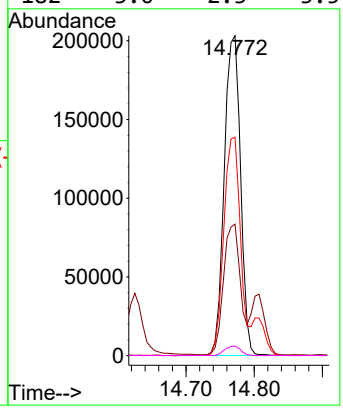


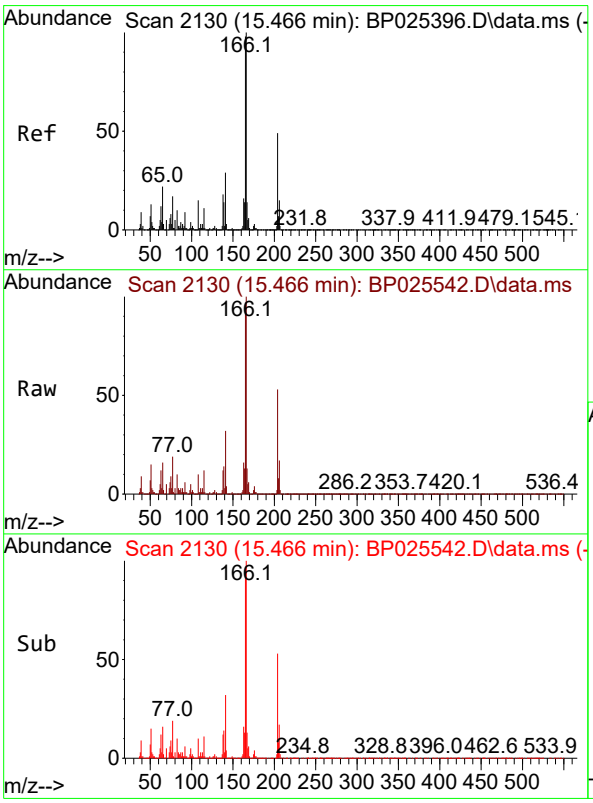
#57
2,4-Dinitrotoluene
Concen: 42.389 ng
RT: 14.772 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:165 Resp: 337744

Ion	Ratio	Lower	Upper
165	100		
63	41.1	31.4	47.2
89	68.2	53.3	79.9
182	3.0	2.3	3.5

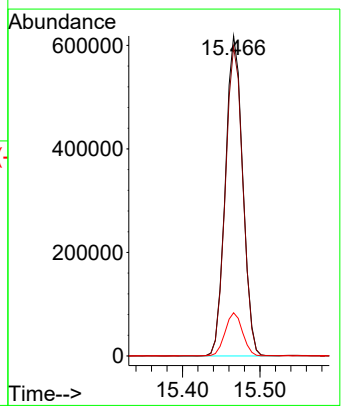


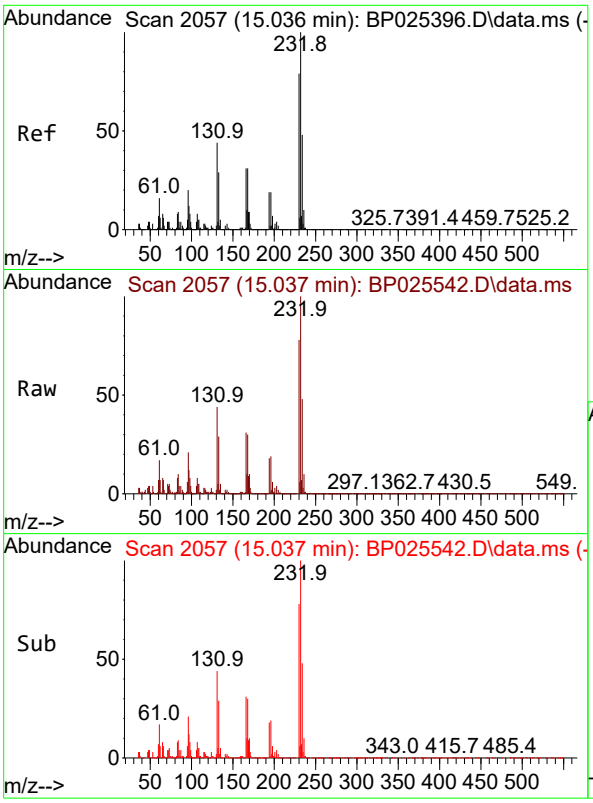


#58
Fluorene
Concen: 38.896 ng
RT: 15.466 min Scan# 2130
Delta R.T. 0.000 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Tgt Ion:166 Resp: 964124

Ion	Ratio	Lower	Upper
166	100		
165	96.6	78.8	118.2
167	13.5	11.0	16.4



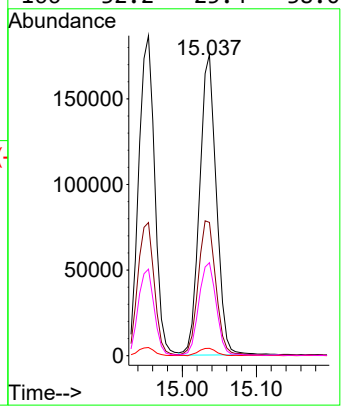


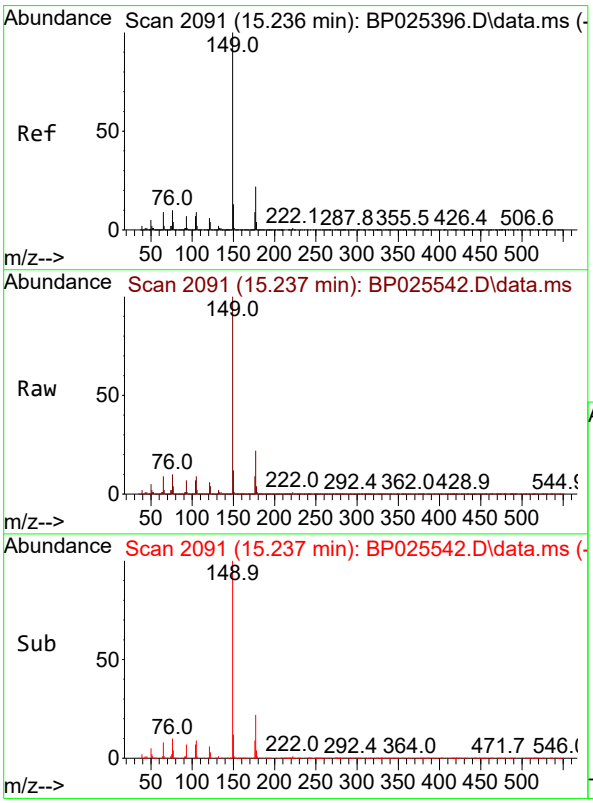
#59
2,3,4,6-Tetrachlorophenol
Concen: 40.314 ng
RT: 15.037 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:232 Resp: 275227

Ion	Ratio	Lower	Upper
232	100		
131	47.3	37.0	55.6
130	2.5	1.9	2.9
166	32.2	25.4	38.0

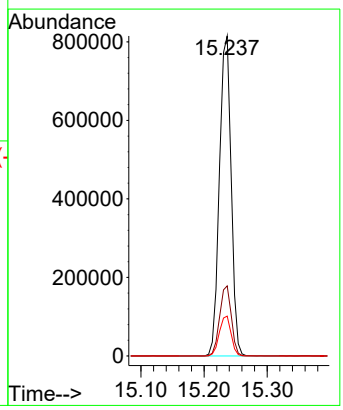


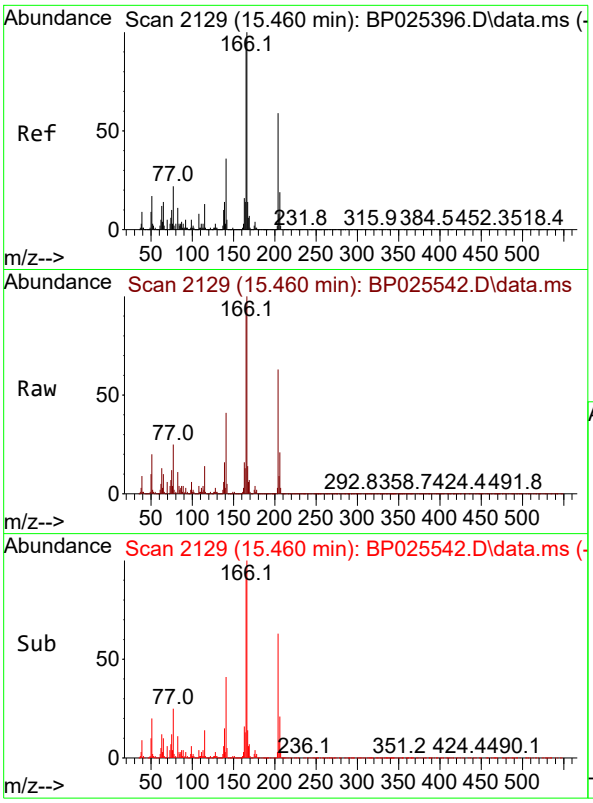


#60
Diethylphthalate
Concen: 38.961 ng
RT: 15.237 min Scan# 2091
Delta R.T. 0.000 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Tgt Ion:149 Resp: 1048925

Ion	Ratio	Lower	Upper
149	100		
177	21.9	17.3	25.9
150	12.5	10.3	15.5



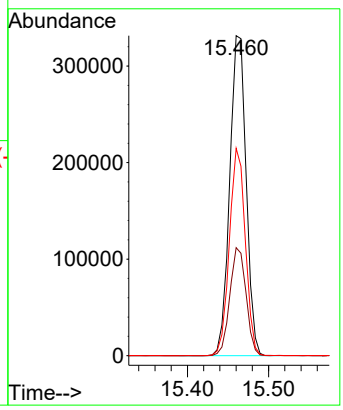


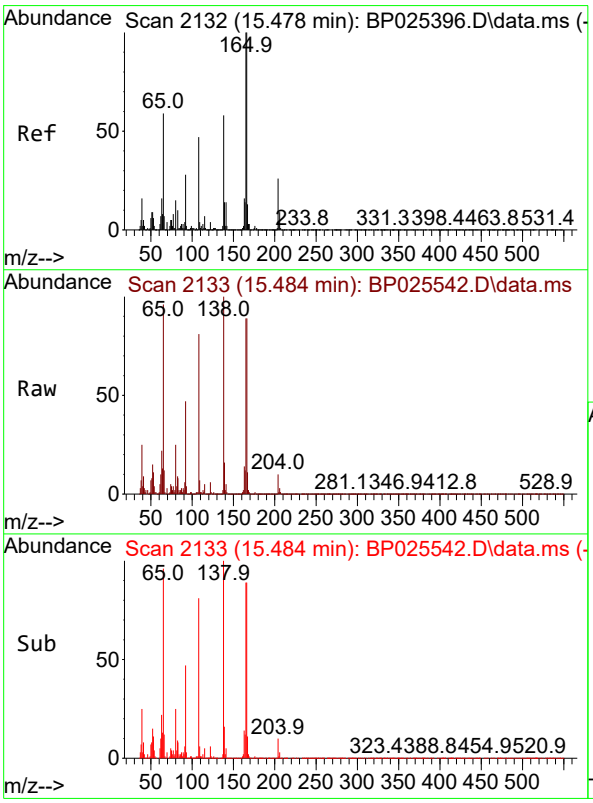
#61
4-Chlorophenyl-phenylether
Concen: 37.771 ng
RT: 15.460 min Scan# 21
Delta R.T. 0.000 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:204 Resp: 465636

Ion	Ratio	Lower	Upper
204	100		
206	33.8	25.8	38.8
141	64.8	49.4	74.2

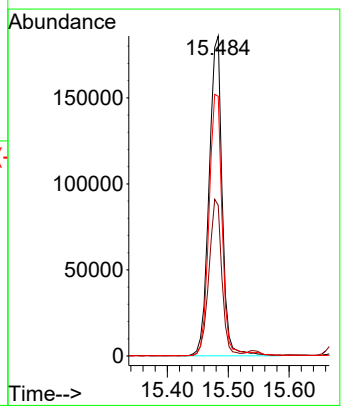


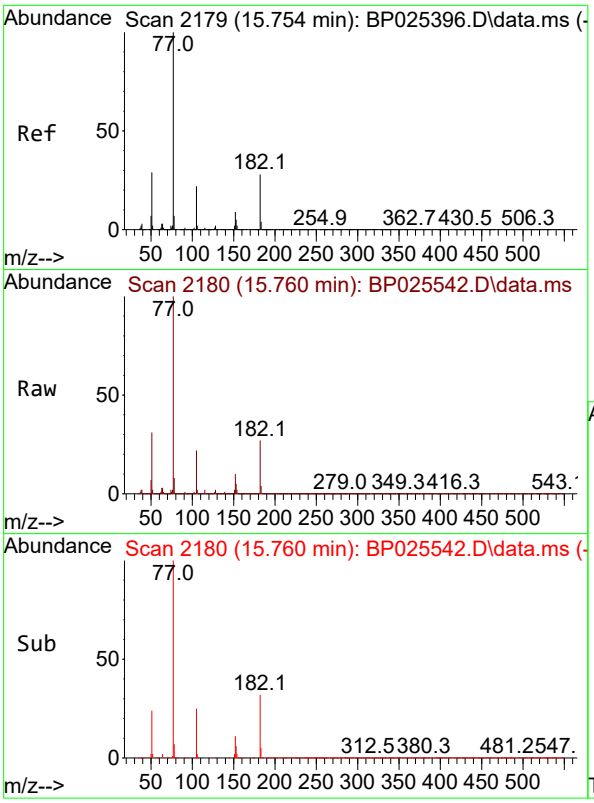


#62
4-Nitroaniline
Concen: 43.138 ng
RT: 15.484 min Scan# 2133
Delta R.T. 0.006 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Tgt Ion:138 Resp: 277864

Ion	Ratio	Lower	Upper
138	100		
92	47.1	29.1	69.1
108	81.2	61.5	101.5



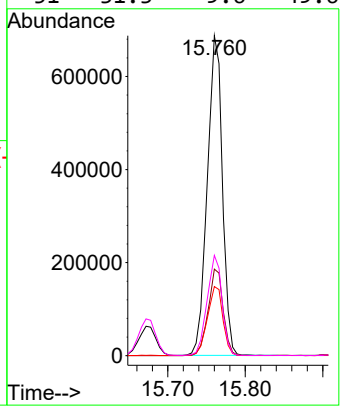


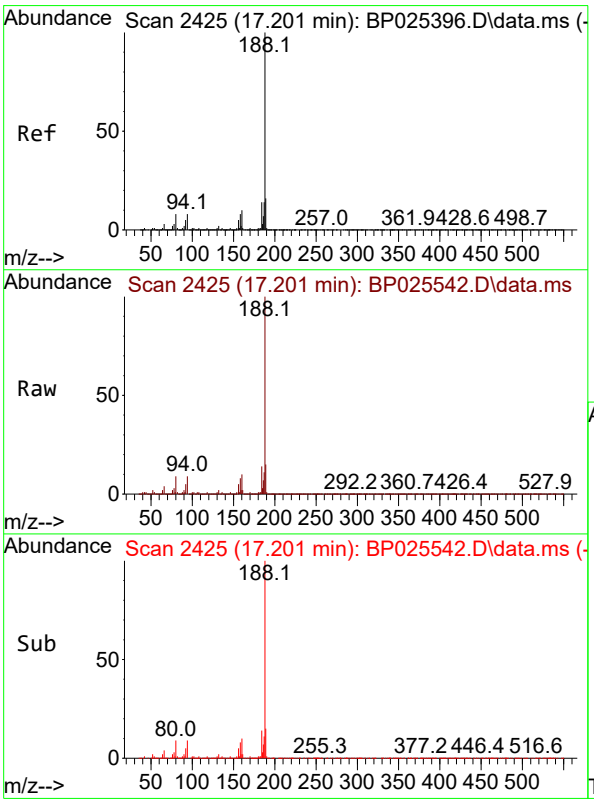
#63
Azobenzene
Concen: 40.370 ng
RT: 15.760 min Scan# 21
Delta R.T. 0.006 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 77 Resp: 930640

Ion	Ratio	Lower	Upper
77	100		
182	27.0	7.5	47.5
105	21.6	2.1	42.1
51	31.3	9.6	49.6

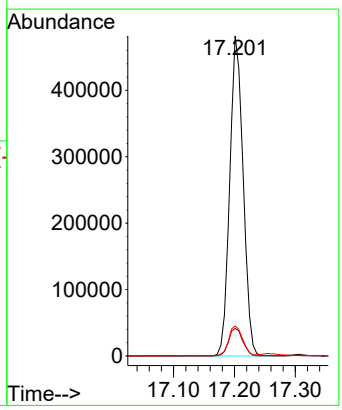


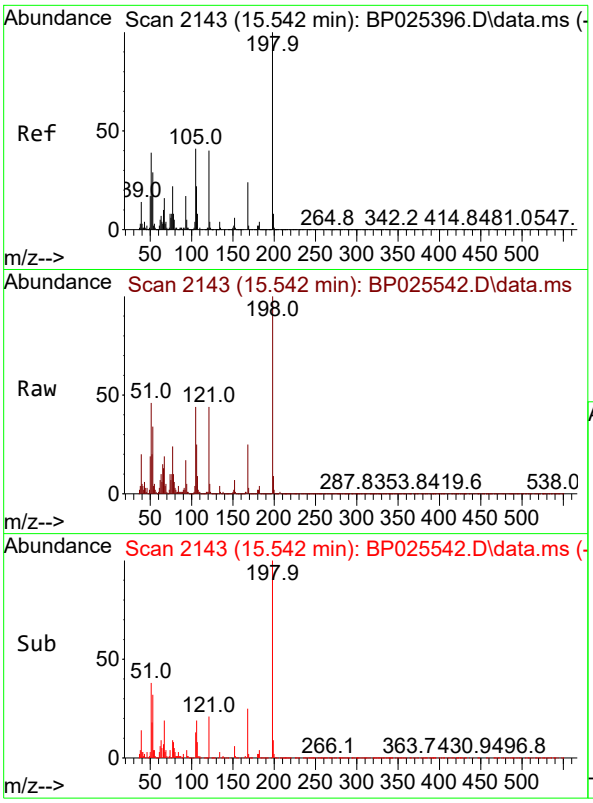


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.201 min Scan# 2425
Delta R.T. 0.000 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Tgt Ion:188 Resp: 738022

Ion	Ratio	Lower	Upper
188	100		
94	8.6	6.6	10.0
80	9.4	6.7	10.1



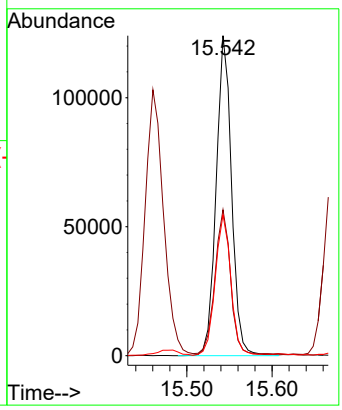


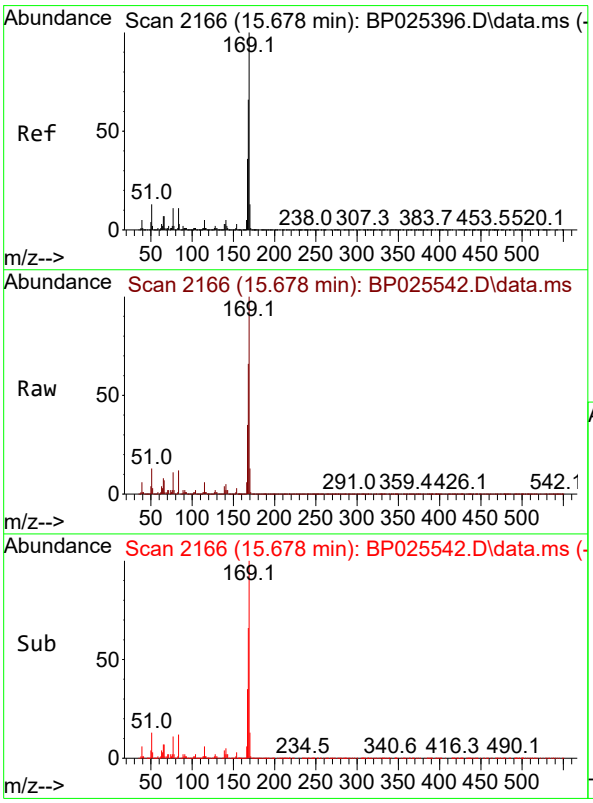
#65
4,6-Dinitro-2-methylphenol
Concen: 33.798 ng
RT: 15.542 min Scan# 21
Delta R.T. 0.000 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:198 Resp: 155486

Ion	Ratio	Lower	Upper
198	100		
51	45.6	19.6	59.6
105	44.0	20.9	60.9

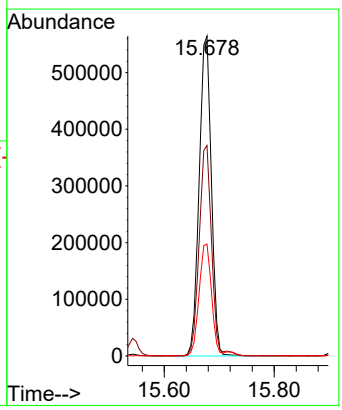


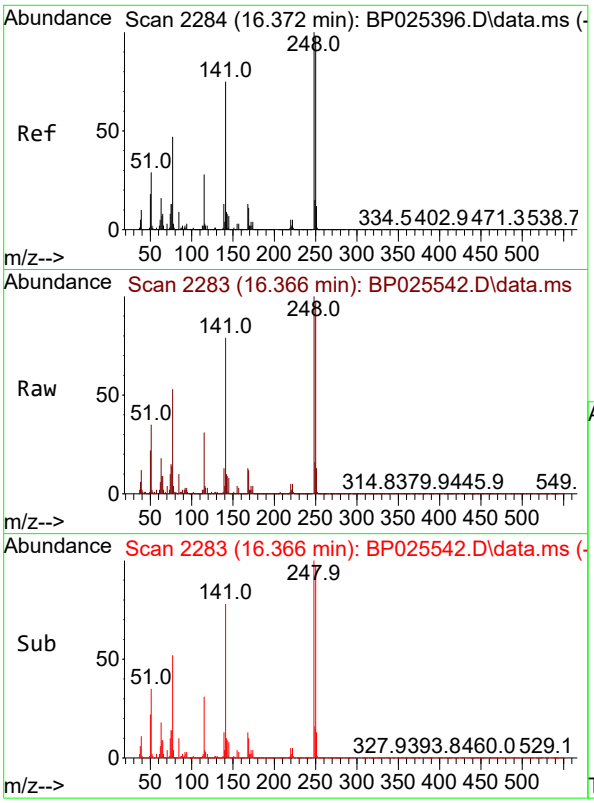


#66
n-Nitrosodiphenylamine
Concen: 38.596 ng
RT: 15.678 min Scan# 2166
Delta R.T. 0.000 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Tgt Ion:169 Resp: 868621

Ion	Ratio	Lower	Upper
169	100		
168	65.8	53.2	79.8
167	35.0	28.7	43.1



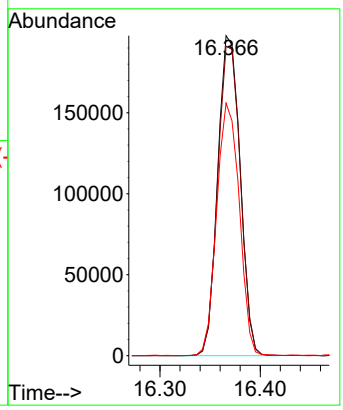


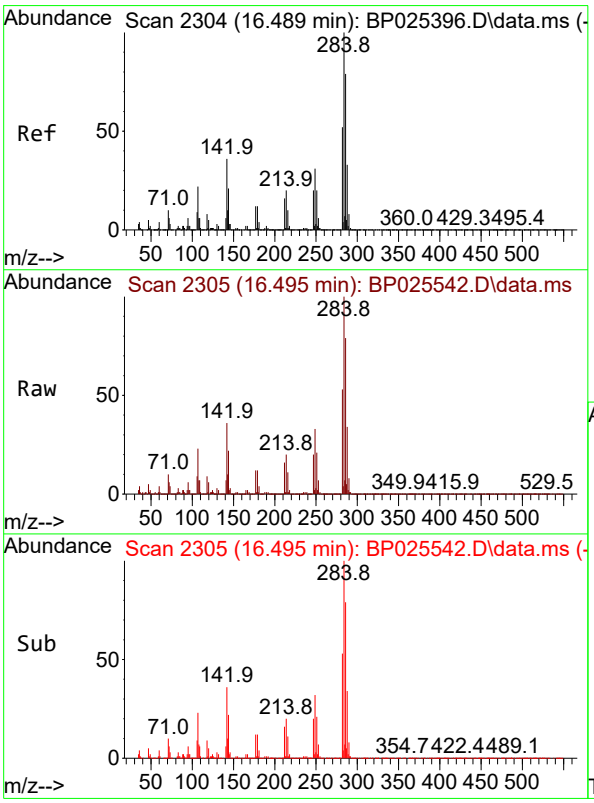
#67
4-Bromophenyl-phenylether
Concen: 37.744 ng
RT: 16.366 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:248 Resp: 306365

Ion	Ratio	Lower	Upper
248	100		
250	96.7	78.2	117.2
141	78.9	59.6	89.4

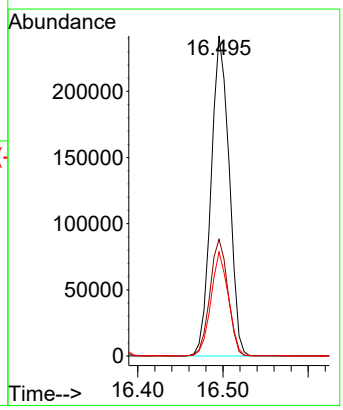


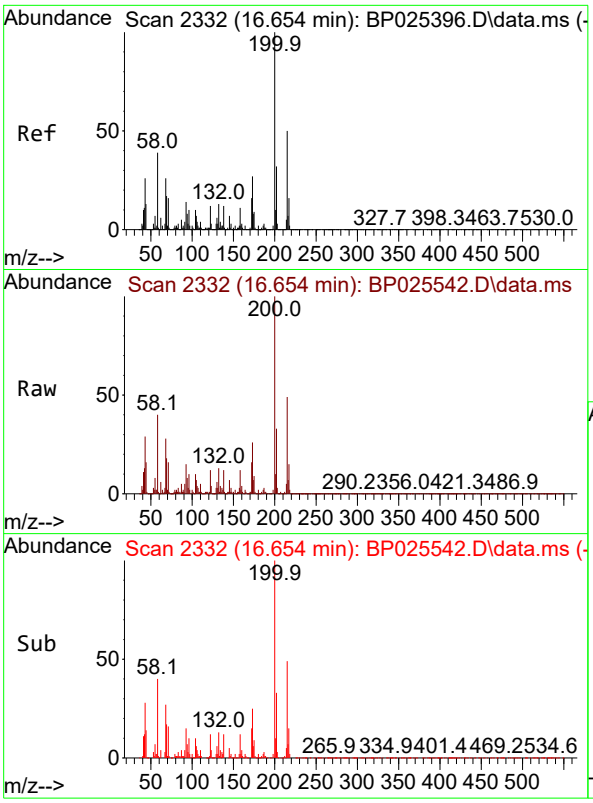


#68
Hexachlorobenzene
Concen: 37.762 ng
RT: 16.495 min Scan# 2305
Delta R.T. 0.006 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Tgt Ion:284 Resp: 355309

Ion	Ratio	Lower	Upper
284	100		
142	36.4	29.1	43.7
249	32.5	25.0	37.4



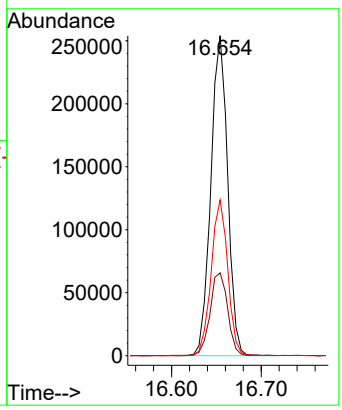


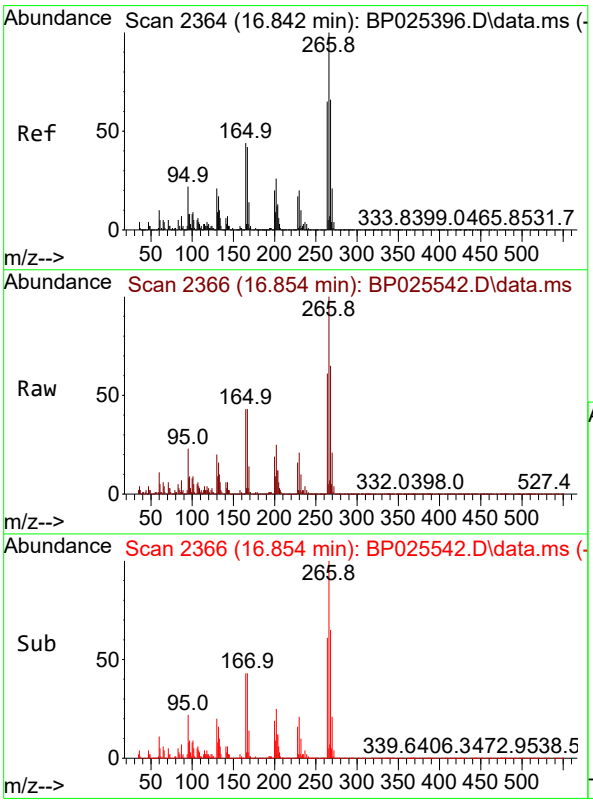
#69
Atrazine
Concen: 39.095 ng
RT: 16.654 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:200 Resp: 329503

Ion	Ratio	Lower	Upper
200	100		
173	25.9	6.7	46.7
215	48.7	29.7	69.7

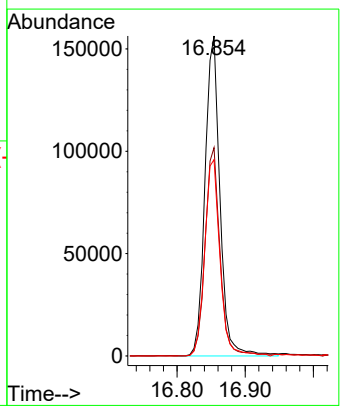


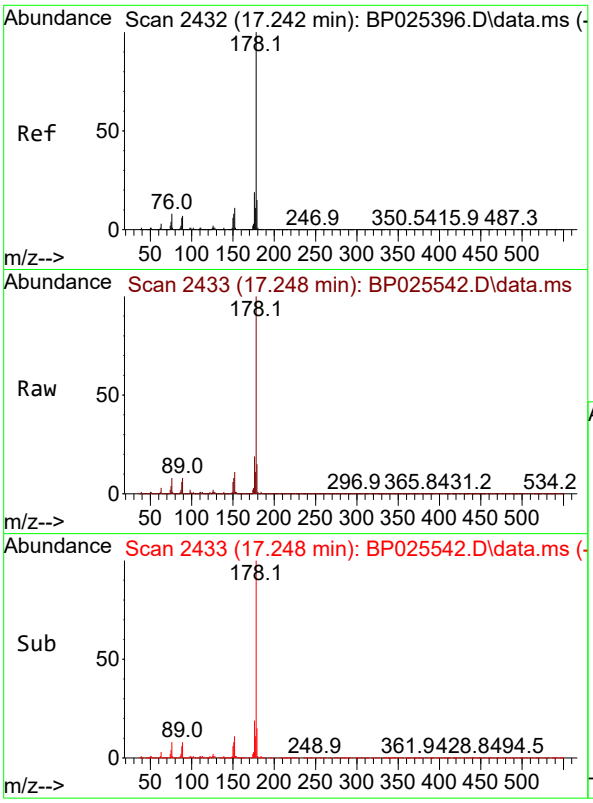


#70
Pentachlorophenol
Concen: 40.198 ng
RT: 16.854 min Scan# 2366
Delta R.T. 0.012 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Tgt Ion:266 Resp: 238756

Ion	Ratio	Lower	Upper
266	100		
268	65.1	52.6	79.0
264	61.3	52.0	78.0



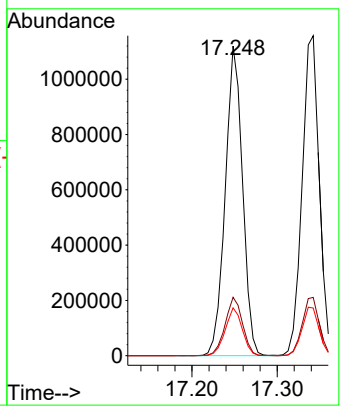


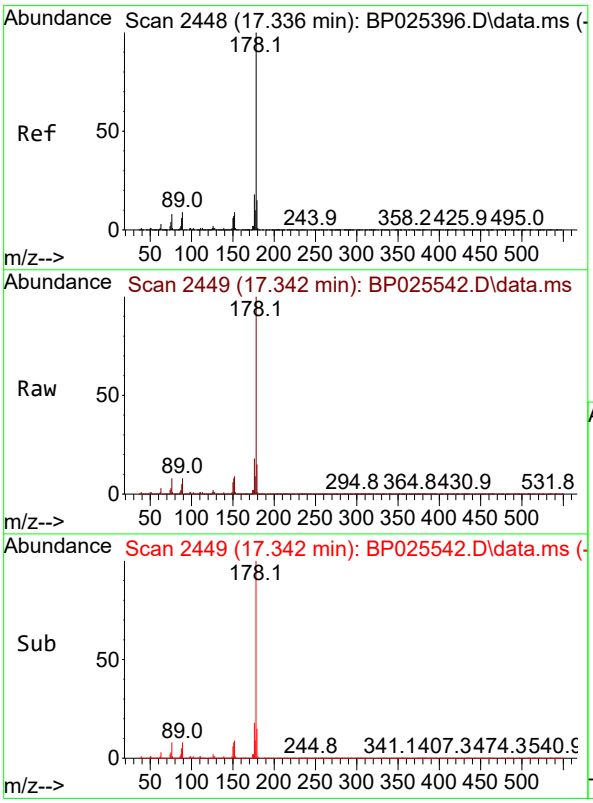
#71
Phenanthrene
Concen: 38.954 ng
RT: 17.248 min Scan# 24
Delta R.T. 0.006 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:178 Resp: 1579287

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.5	23.3
179	15.4	12.2	18.4

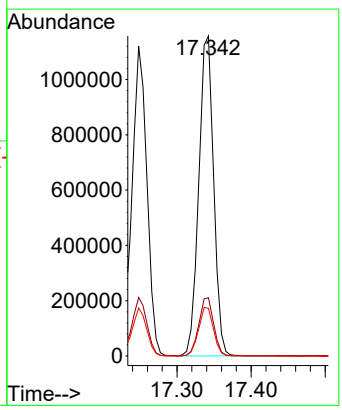


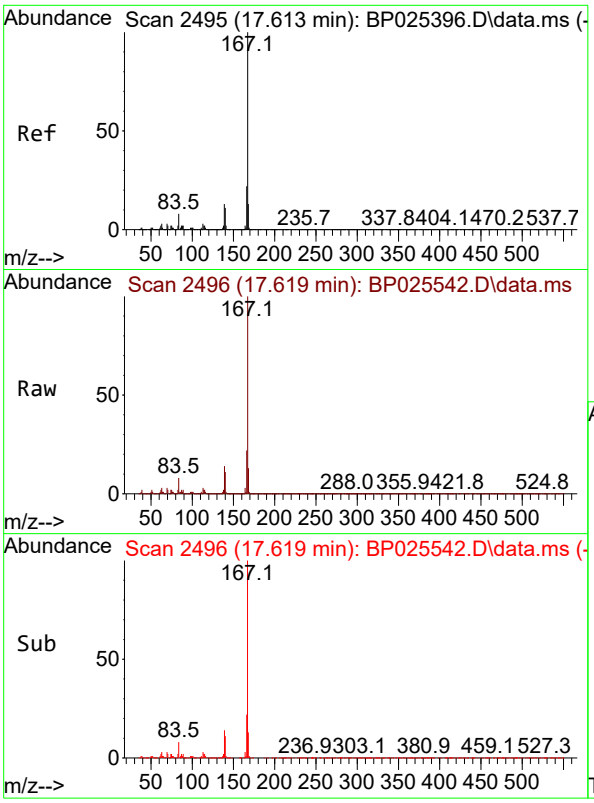


#72
Anthracene
Concen: 38.931 ng
RT: 17.342 min Scan# 2449
Delta R.T. 0.006 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Tgt Ion:178 Resp: 1611788

Ion	Ratio	Lower	Upper
178	100		
176	18.2	14.7	22.1
179	14.9	12.2	18.2



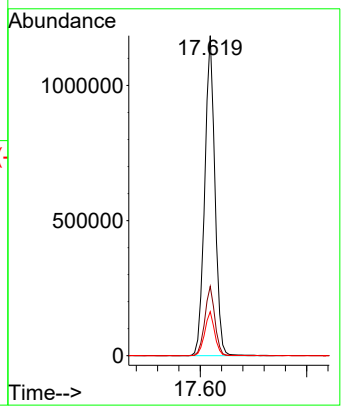


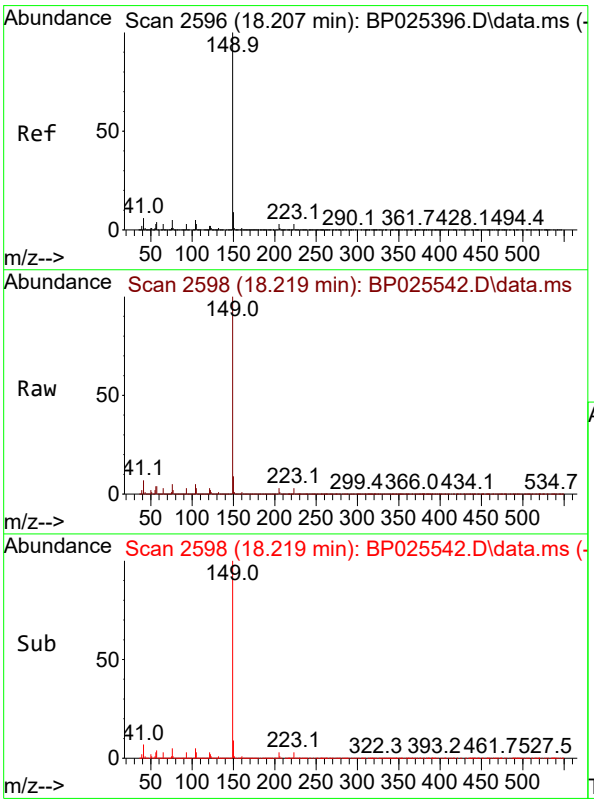
#73
Carbazole
Concen: 40.220 ng
RT: 17.619 min Scan# 24
Delta R.T. 0.006 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:167 Resp: 1568464

Ion	Ratio	Lower	Upper
167	100		
166	21.7	17.5	26.3
139	13.7	10.6	16.0

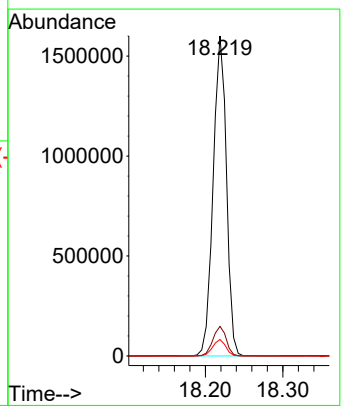


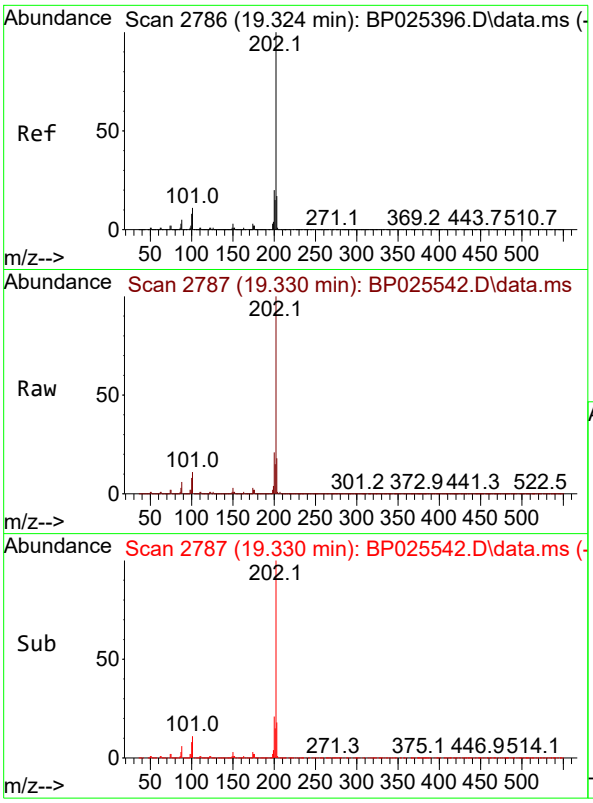


#74
Di-n-butylphthalate
Concen: 39.627 ng
RT: 18.219 min Scan# 2598
Delta R.T. 0.012 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Tgt Ion:149 Resp: 1901273

Ion	Ratio	Lower	Upper
149	100		
150	9.3	7.4	11.0
104	5.2	4.2	6.2



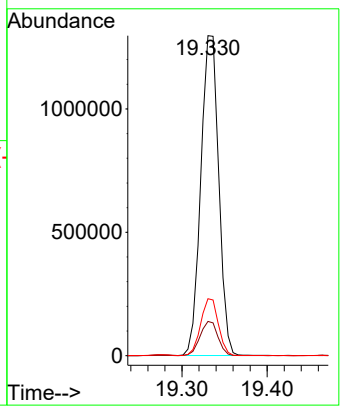


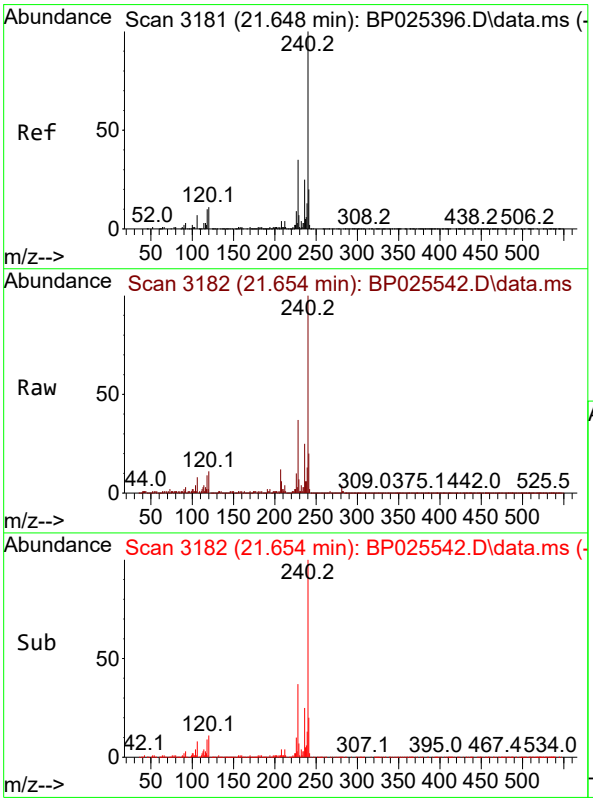
#75
Fluoranthene
Concen: 39.170 ng
RT: 19.330 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:202 Resp: 1894256

Ion	Ratio	Lower	Upper
202	100		
101	10.7	0.0	31.1
203	17.8	0.0	37.3

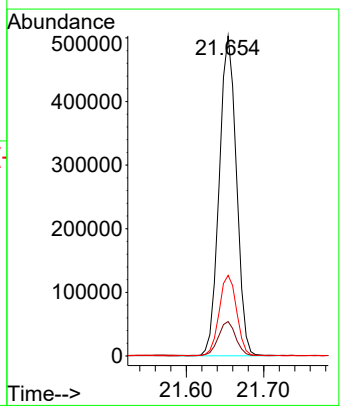


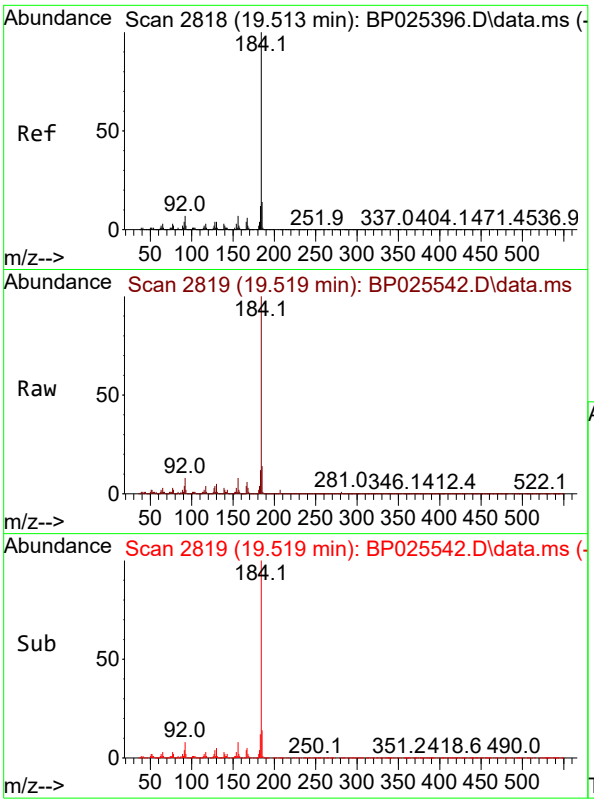


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.654 min Scan# 3182
Delta R.T. 0.006 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Tgt Ion:240 Resp: 775486

Ion	Ratio	Lower	Upper
240	100		
120	10.7	8.9	13.3
236	25.2	19.8	29.8



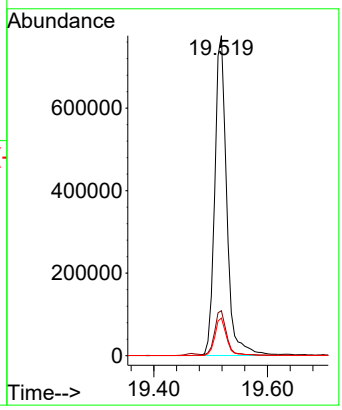


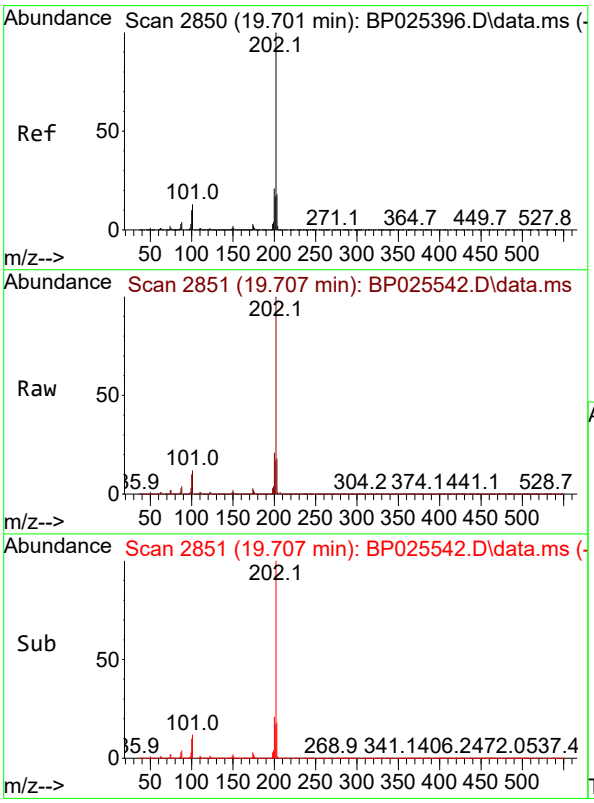
#77
Benzidine
Concen: 42.745 ng
RT: 19.519 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:184 Resp: 1131270

Ion	Ratio	Lower	Upper
184	100		
185	14.0	11.5	17.3
183	11.8	9.4	14.2

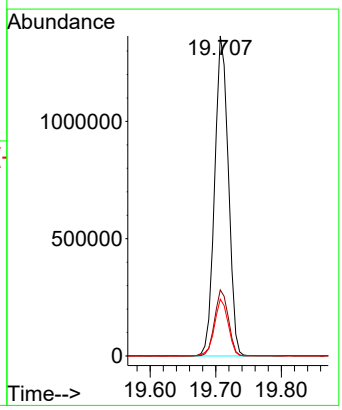


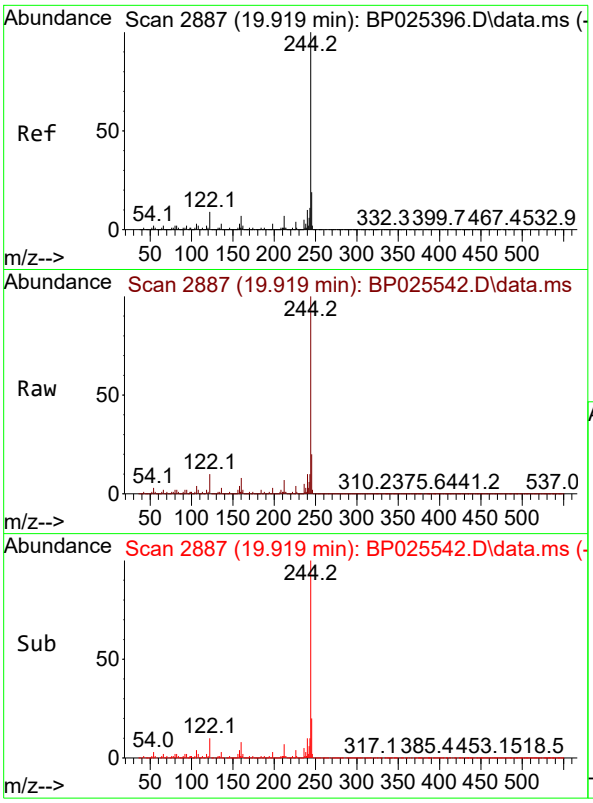


#78
Pyrene
Concen: 39.101 ng
RT: 19.707 min Scan# 2851
Delta R.T. 0.006 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Tgt Ion:202 Resp: 1970872

Ion	Ratio	Lower	Upper
202	100		
200	20.6	16.9	25.3
203	17.8	14.2	21.2



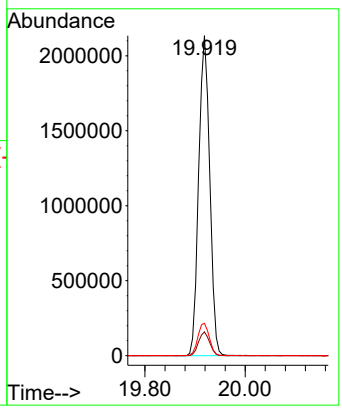


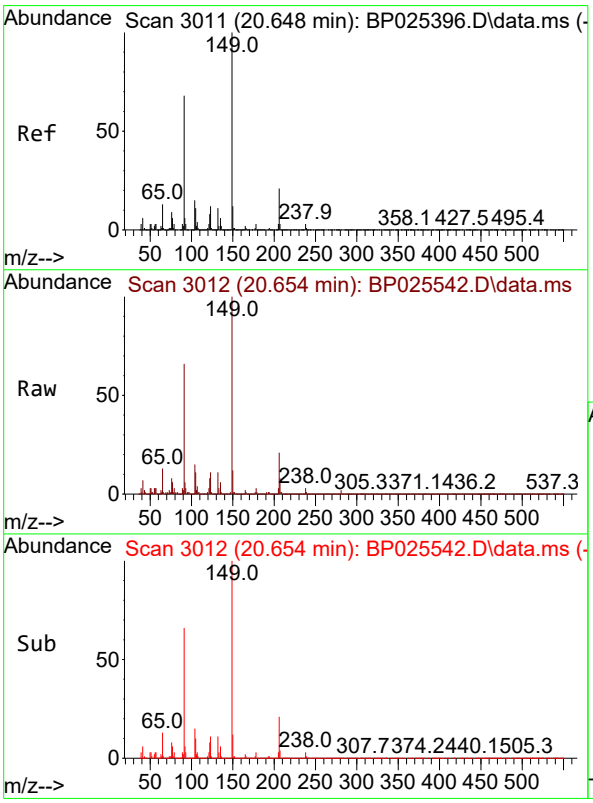
#79
Terphenyl-d14
Concen: 76.735 ng
RT: 19.919 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:244 Resp: 3252513

Ion	Ratio	Lower	Upper
244	100		
212	7.4	5.8	8.6
122	10.1	7.4	11.2

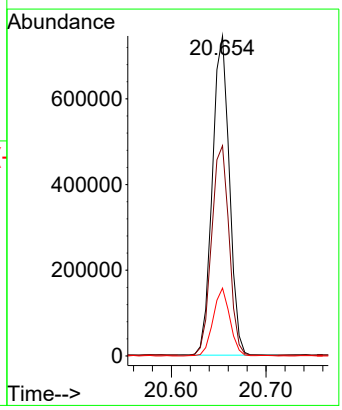


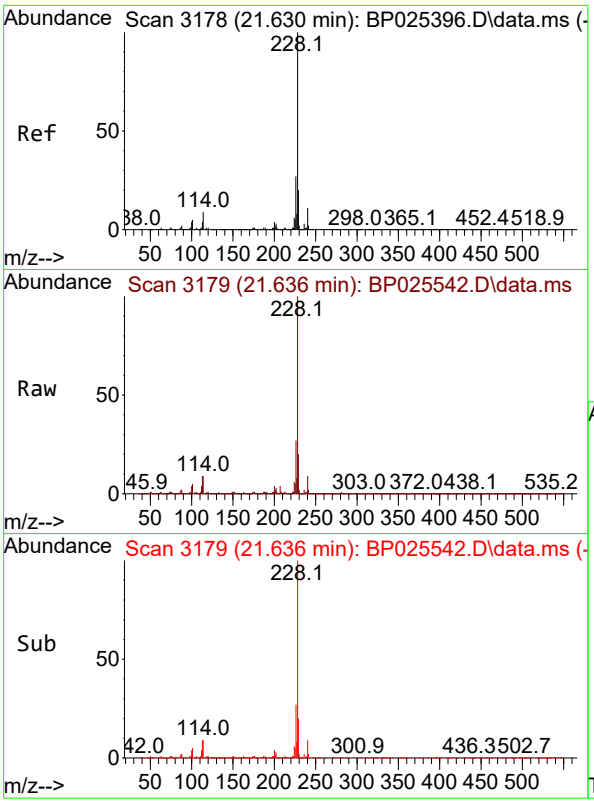


#80
Butylbenzylphthalate
Concen: 40.877 ng
RT: 20.654 min Scan# 3012
Delta R.T. 0.006 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Tgt Ion:149 Resp: 933796

Ion	Ratio	Lower	Upper
149	100		
91	65.7	54.2	81.2
206	21.2	16.6	24.8



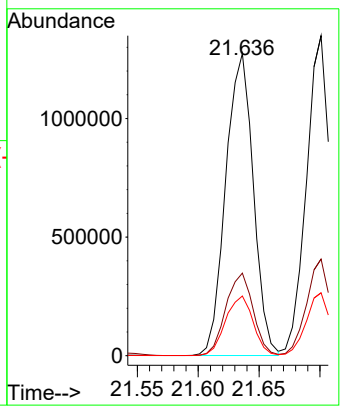


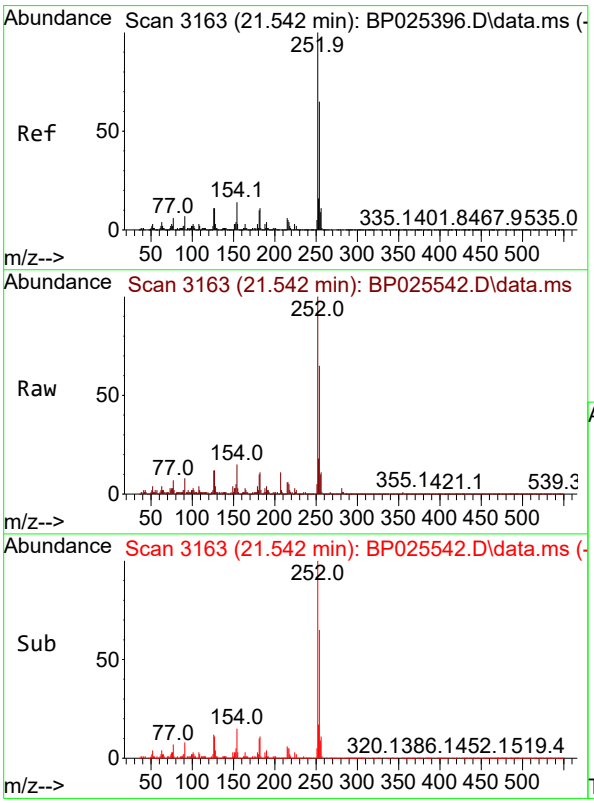
#81
Benzo(a)anthracene
Concen: 39.310 ng
RT: 21.636 min Scan# 3
Delta R.T. 0.006 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:228 Resp: 2010459

Ion	Ratio	Lower	Upper
228	100		
226	27.3	21.7	32.5
229	19.7	15.6	23.4

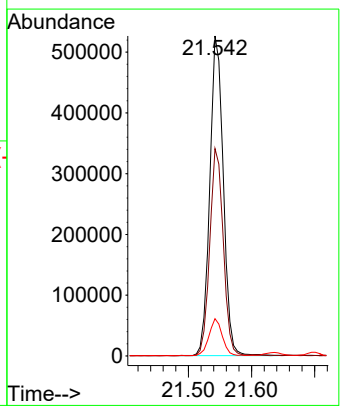


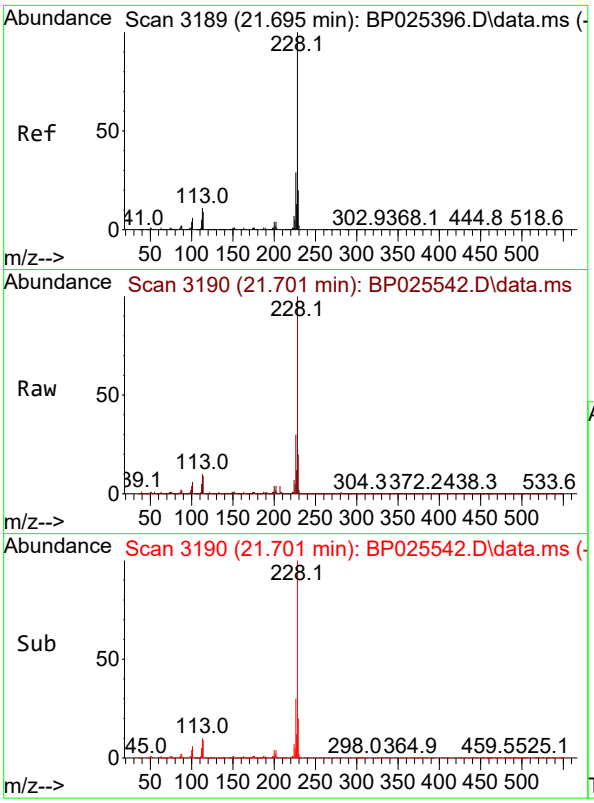


#82
3,3'-Dichlorobenzidine
Concen: 40.543 ng
RT: 21.542 min Scan# 3163
Delta R.T. 0.000 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Tgt Ion:252 Resp: 781552

Ion	Ratio	Lower	Upper
252	100		
254	64.8	51.8	77.6
126	11.6	9.1	13.7



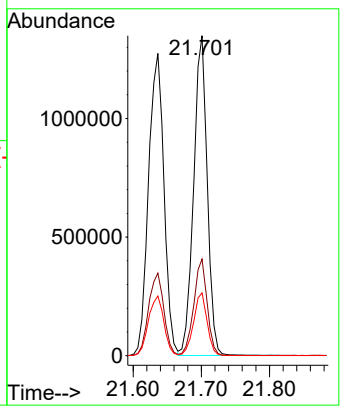


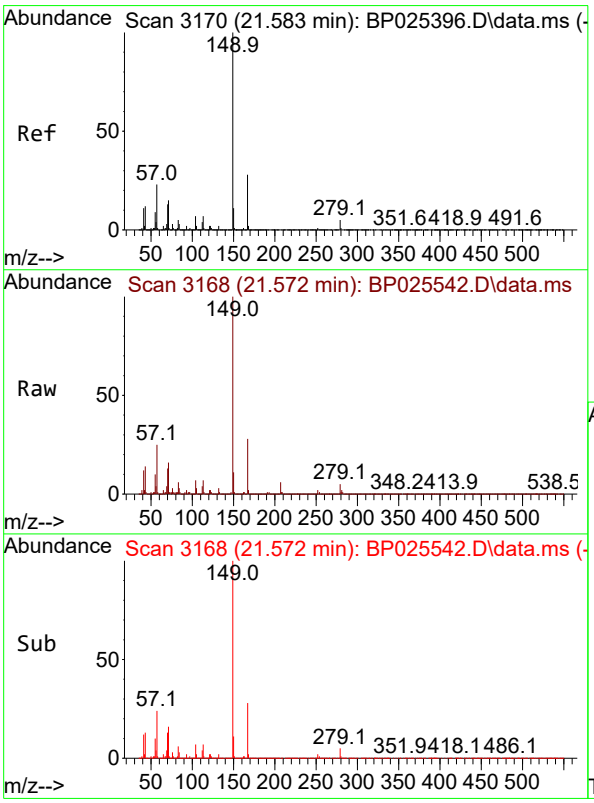
#83
Chrysene
Concen: 38.953 ng
RT: 21.701 min Scan# 3
Delta R.T. 0.006 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:228 Resp: 1865688

Ion	Ratio	Lower	Upper
228	100		
226	30.2	23.2	34.8
229	19.6	15.6	23.4

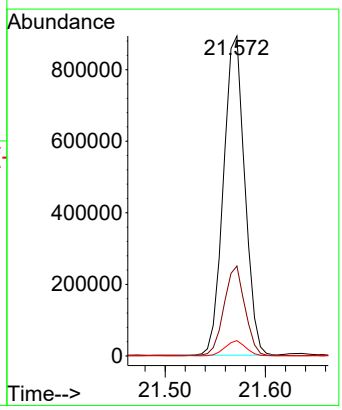


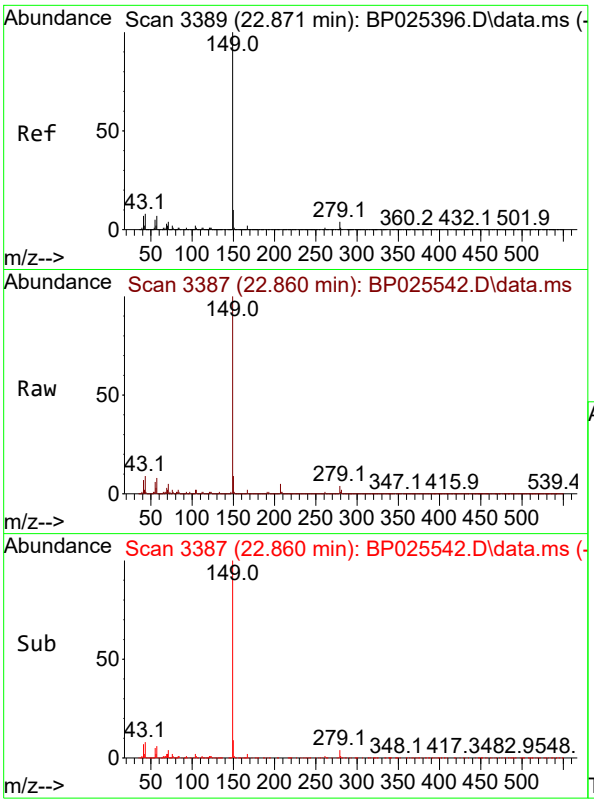


#84
Bis(2-ethylhexyl)phthalate
Concen: 39.155 ng
RT: 21.572 min Scan# 3168
Delta R.T. -0.012 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Tgt Ion:149 Resp: 1316686

Ion	Ratio	Lower	Upper
149	100		
167	28.1	22.1	33.1
279	4.8	3.8	5.6



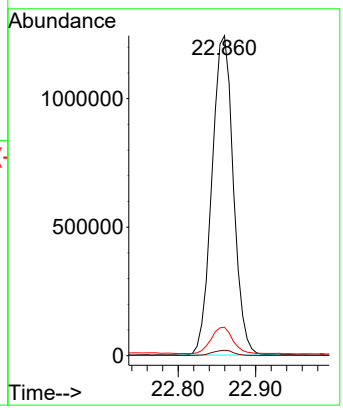


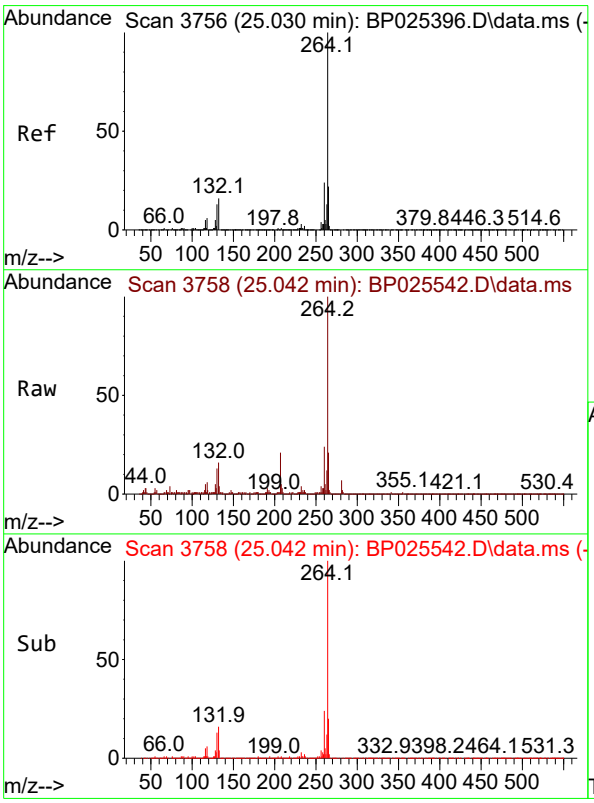
#85
Di-n-octyl phthalate
Concen: 41.227 ng
RT: 22.860 min Scan# 3
Delta R.T. -0.012 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:149 Resp: 2384611

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	8.8	6.3	9.5

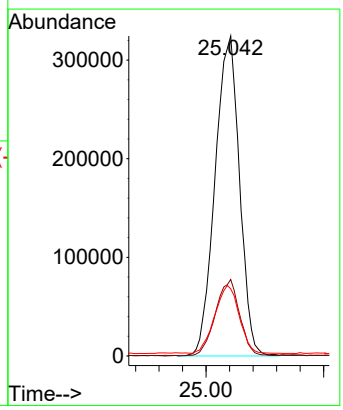


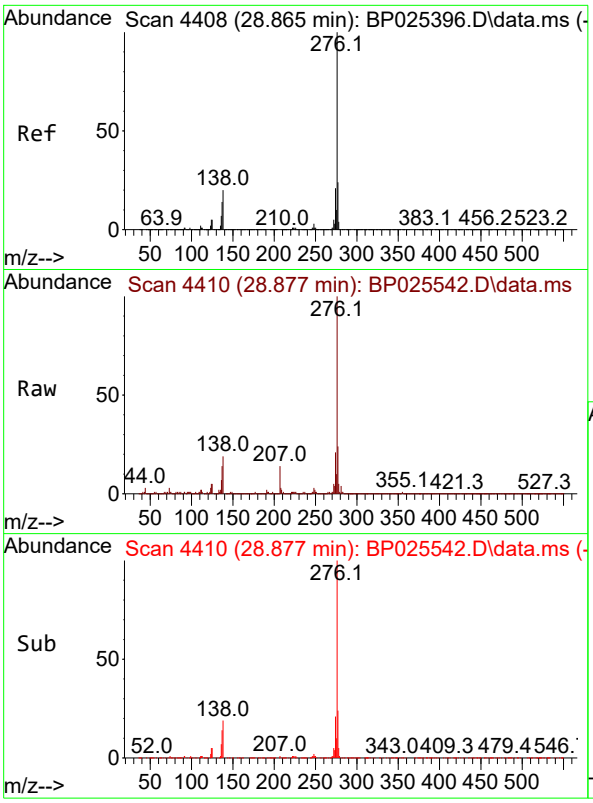


#86
Perylene-d12
Concen: 20.000 ng
RT: 25.042 min Scan# 3758
Delta R.T. 0.012 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Tgt Ion:264 Resp: 938396

Ion	Ratio	Lower	Upper
264	100		
260	23.9	19.3	28.9
265	21.0	17.4	26.0



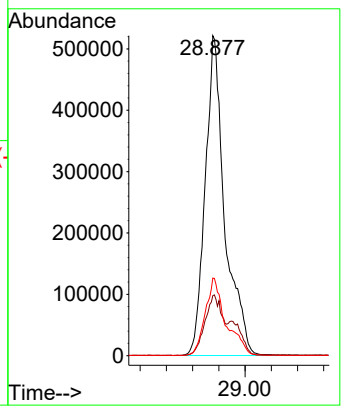


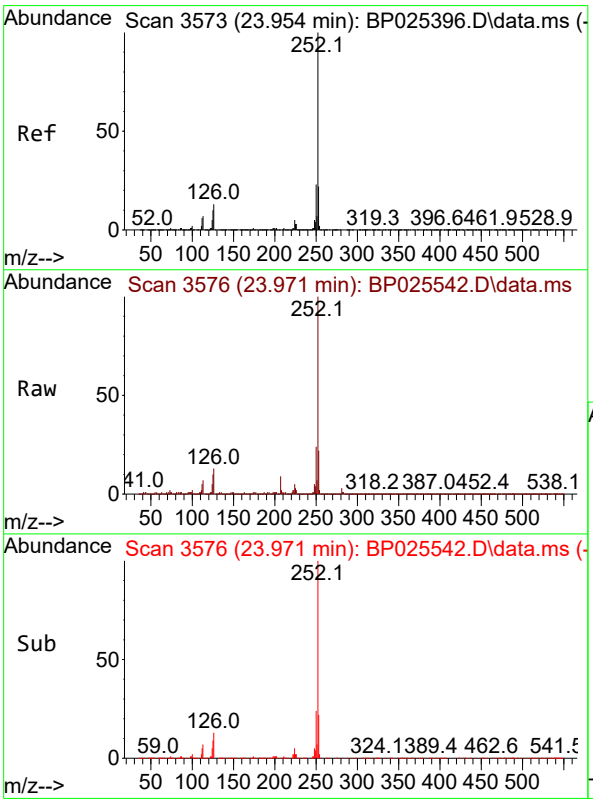
#87
Indeno(1,2,3-cd)pyrene
Concen: 39.284 ng
RT: 28.877 min Scan# 4
Delta R.T. 0.012 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:276 Resp: 2703463

Ion	Ratio	Lower	Upper
276	100		
138	16.9	12.9	19.3
277	25.5	17.0	25.6

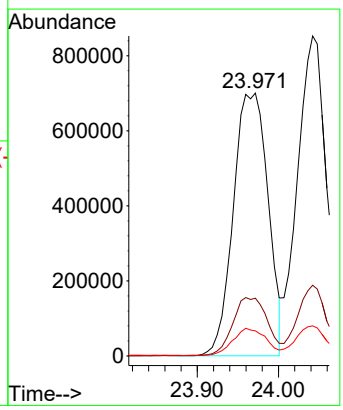


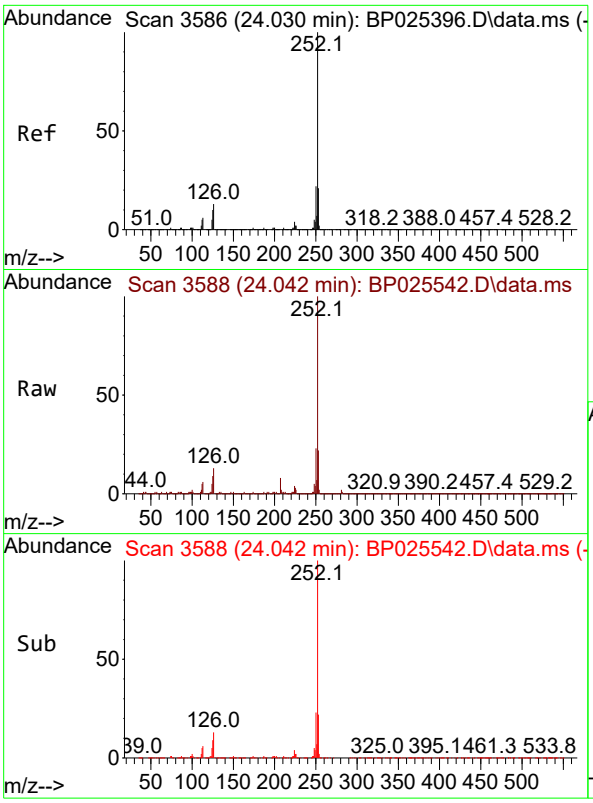


#88
Benzo(b)fluoranthene
Concen: 37.548 ng
RT: 23.971 min Scan# 3576
Delta R.T. 0.018 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Tgt Ion:252 Resp: 2077718

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.7	26.5
125	9.5	7.9	11.9



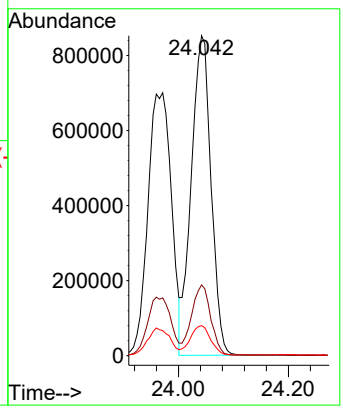


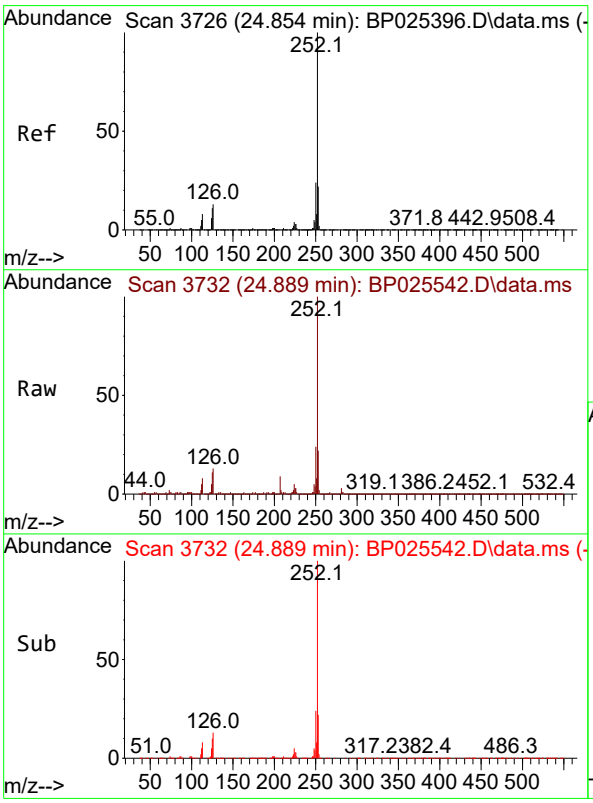
#89
Benzo(k)fluoranthene
Concen: 38.472 ng
RT: 24.042 min Scan# 3
Delta R.T. 0.012 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:252 Resp: 2130275

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.1	25.7
125	9.4	7.8	11.6

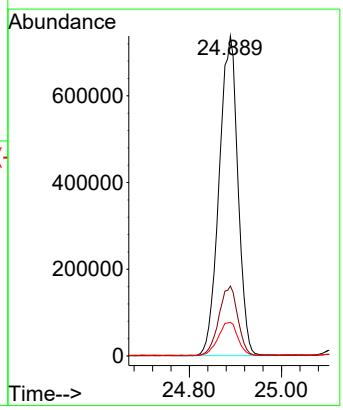


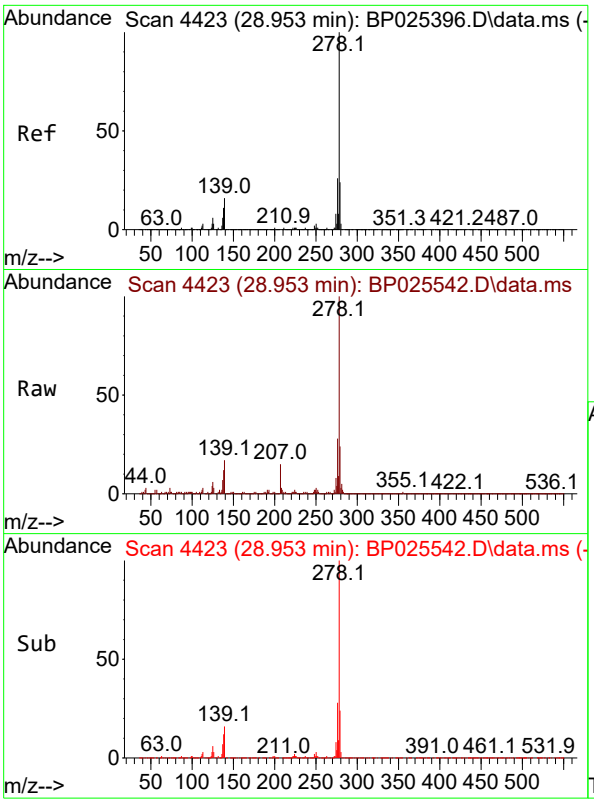


#90
Benzo(a)pyrene
Concen: 38.652 ng
RT: 24.889 min Scan# 3732
Delta R.T. 0.035 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Tgt Ion:252 Resp: 2081963

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.5	26.3
125	10.5	8.7	13.1



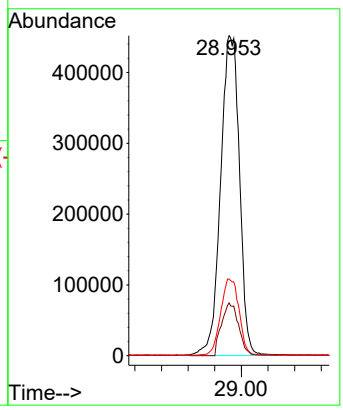


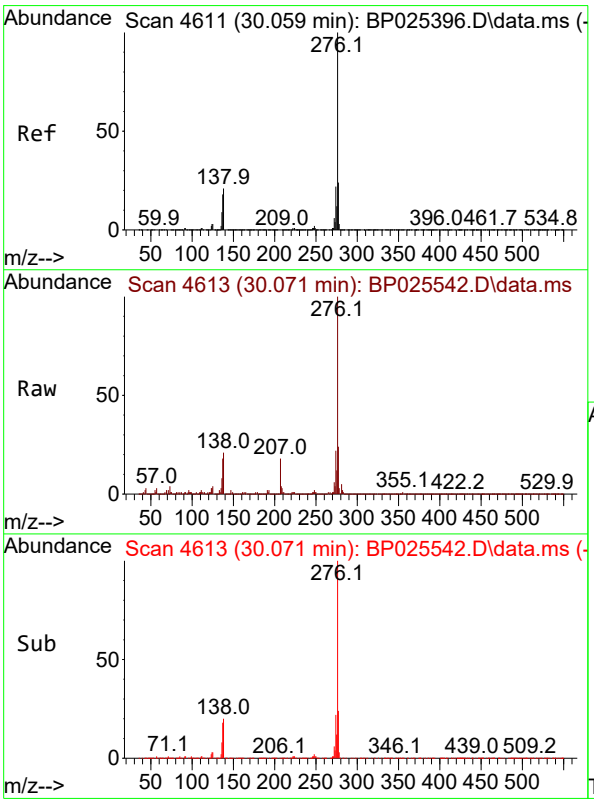
#91
Dibenzo(a,h)anthracene
Concen: 39.566 ng
RT: 28.953 min Scan# 4
Delta R.T. 0.000 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:278 Resp: 2225141

Ion	Ratio	Lower	Upper
278	100		
139	16.5	13.0	19.4
279	23.9	19.4	29.2

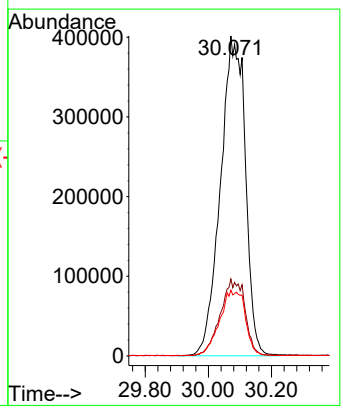




#92
Benzo(g,h,i)perylene
Concen: 39.705 ng
RT: 30.071 min Scan# 4613
Delta R.T. 0.012 min
Lab File: BP025542.D
Acq: 21 Aug 2025 17:11

Tgt Ion:276 Resp: 2194980

Ion	Ratio	Lower	Upper
276	100		
277	24.0	19.4	29.0
138	20.5	16.7	25.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025542.D
Acq On : 21 Aug 2025 17:11
Operator : CG/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: Aug 21 17:38:37 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 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	-0.02
2		1,4-Dioxane	0.472	0.452	4.2	88	-0.01
3		Pyridine	1.291	1.227	5.0	87	0.00
4		n-Nitrosodimethylamine	0.532	0.568	-6.8	96	-0.01
5	S	2-Fluorophenol	1.204	1.212	-0.7	90	0.00
6		Aniline	2.080	2.051	1.4	88	-0.01
7	S	Phenol-d6	1.544	1.576	-2.1	90	0.00
8		2-Chlorophenol	1.359	1.363	-0.3	90	0.00
9		Benzaldehyde	1.082	1.364	-26.1#	86	-0.01
10	C	Phenol	1.620	1.627	-0.4	89	0.00
11		bis(2-Chloroethyl)ether	1.263	1.232	2.5	87	-0.01
12		1,3-Dichlorobenzene	1.499	1.470	1.9	88	-0.01
13	C	1,4-Dichlorobenzene	1.532	1.496	2.3	88	-0.02
14		1,2-Dichlorobenzene	1.483	1.439	3.0	87	-0.01
15		Benzyl Alcohol	1.227	1.224	0.2	89	-0.01
16		2,2'-oxybis(1-Chloropropane	1.692	1.698	-0.4	90	-0.01
17		2-Methylphenol	1.125	1.127	-0.2	88	0.00
18		Hexachloroethane	0.563	0.558	0.9	88	-0.01
19	P	n-Nitroso-di-n-propylamine	1.023	0.960	6.2	84	-0.01
20		3+4-Methylphenols	1.560	1.540	1.3	87	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	85	-0.01
22		Acetophenone	0.502	0.488	2.8	85	-0.01
23	S	Nitrobenzene-d5	0.395	0.400	-1.3	88	-0.01
24		Nitrobenzene	0.353	0.359	-1.7	88	0.00
25		Isophorone	0.700	0.664	5.1	83	-0.01
26	C	2-Nitrophenol	0.181	0.184	-1.7	86	-0.01
27		2,4-Dimethylphenol	0.312	0.307	1.6	84	-0.01
28		bis(2-Chloroethoxy)methane	0.423	0.397	6.1	82	-0.01
29	C	2,4-Dichlorophenol	0.310	0.306	1.3	85	0.00
30		1,2,4-Trichlorobenzene	0.340	0.327	3.8	85	-0.01
31		Naphthalene	1.040	0.998	4.0	84	-0.01
32		Benzoic acid	0.230	0.235	-2.2	88	0.00
33		4-Chloroaniline	0.459	0.442	3.7	83	0.00
34	C	Hexachlorobutadiene	0.211	0.203	3.8	84	-0.01
35		Caprolactam	0.114	0.114	0.0	88	0.00
36	C	4-Chloro-3-methylphenol	0.355	0.349	1.7	85	0.00
37		2-Methylnaphthalene	0.676	0.634	6.2	82	-0.01
38		1-Methylnaphthalene	0.719	0.676	6.0	83	-0.01
39	I	Acenaphthene-d10	1.000	1.000	0.0	82	0.00
40		1,2,4,5-Tetrachlorobenzene	0.578	0.557	3.6	82	-0.01
41	P	Hexachlorocyclopentadiene	0.349	0.257	26.4#	61	-0.01
42	S	2,4,6-Tribromophenol	0.269	0.267	0.7	83	0.00
43	C	2,4,6-Trichlorophenol	0.390	0.396	-1.5	85	0.00
44		2,4,5-Trichlorophenol	0.427	0.429	-0.5	83	0.00
45	S	2-Fluorobiphenyl	1.463	1.377	5.9	81	-0.01
46		1,1'-Biphenyl	1.453	1.391	4.3	81	0.00
47		2-Chloronaphthalene	1.131	1.085	4.1	81	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025542.D
Acq On : 21 Aug 2025 17:11
Operator : CG/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: Aug 21 17:38:37 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 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	0.329	0.358	-8.8	89	0.00
49		Acenaphthylene	1.871	1.831	2.1	83	0.00
50		Dimethylphthalate	1.465	1.393	4.9	81	0.00
51		2,6-Dinitrotoluene	0.309	0.310	-0.3	82	0.00
52	C	Acenaphthene	1.098	1.038	5.5	82	0.00
53		3-Nitroaniline	0.347	0.357	-2.9	86	0.00
54	P	2,4-Dinitrophenol	0.165	0.152	7.9	76	0.01
55		Dibenzofuran	1.736	1.667	4.0	82	0.00
56	P	4-Nitrophenol	0.285	0.310	-8.8	91	0.01
57		2,4-Dinitrotoluene	0.440	0.467	-6.1	87	0.00
58		Fluorene	1.370	1.332	2.8	84	0.00
59		2,3,4,6-Tetrachlorophenol	0.377	0.380	-0.8	85	0.00
60		Diethylphthalate	1.488	1.450	2.6	83	0.00
61		4-Chlorophenyl-phenylether	0.681	0.643	5.6	81	0.00
62		4-Nitroaniline	0.356	0.384	-7.9	90	0.00
63		Azobenzene	1.274	1.286	-0.9	85	0.00
64	I	Phenanthrene-d10	1.000	1.000	0.0	83	0.00
65		4,6-Dinitro-2-methylphenol	0.125	0.105	16.0	72	0.00
66	c	n-Nitrosodiphenylamine	0.610	0.588	3.6	83	0.00
67		4-Bromophenyl-phenylether	0.220	0.208	5.5	81	0.00
68		Hexachlorobenzene	0.255	0.241	5.5	83	0.00
69		Atrazine	0.228	0.223	2.2	85	0.00
70	C	Pentachlorophenol	0.161	0.162	-0.6	86	0.01
71		Phenanthrene	1.099	1.070	2.6	86	0.00
72		Anthracene	1.122	1.092	2.7	84	0.00
73		Carbazole	1.057	1.063	-0.6	88	0.00
74		Di-n-butylphthalate	1.300	1.288	0.9	86	0.01
75	C	Fluoranthene	1.311	1.283	2.1	87	0.00
76	I	Chrysene-d12	1.000	1.000	0.0	86	0.00
77		Benzidine	0.683	0.729	-6.7	65	0.00
78		Pyrene	1.300	1.271	2.2	86	0.00
79	S	Terphenyl-d14	1.093	1.049	4.0	86	0.00
80		Butylbenzylphthalate	0.589	0.602	-2.2	90	0.00
81		Benzo(a)anthracene	1.319	1.296	1.7	88	0.00
82		3,3'-Dichlorobenzidine	0.497	0.504	-1.4	89	0.00
83		Chrysene	1.235	1.203	2.6	88	0.00
84		Bis(2-ethylhexyl)phthalate	0.867	0.849	2.1	88	-0.01
85	c	Di-n-octyl phthalate	1.492	1.537	-3.0	92	-0.01
86	I	Perylene-d12	1.000	1.000	0.0	92	0.01
87		Indeno(1,2,3-cd)pyrene	1.467	1.440	1.8	94	0.01
88		Benzo(b)fluoranthene	1.179	1.107	6.1	90	0.02
89		Benzo(k)fluoranthene	1.180	1.135	3.8	92	0.01
90	C	Benzo(a)pyrene	1.148	1.109	3.4	92	0.04
91		Dibenzo(a,h)anthracene	1.199	1.186	1.1	94	0.00
92		Benzo(g,h,i)perylene	1.178	1.170	0.7	94	0.01

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025542.D
Acq On : 21 Aug 2025 17:11
Operator : CG/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: Aug 21 17:38:37 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration

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

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025542.D
Acq On : 21 Aug 2025 17:11
Operator : CG/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: Aug 21 17:38:37 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 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	-0.02
2		1,4-Dioxane	40.000	38.351	4.1	88	-0.01
3		Pyridine	40.000	38.018	5.0	87	0.00
4		n-Nitrosodimethylamine	40.000	42.700	-6.8	96	-0.01
5	S	2-Fluorophenol	80.000	80.536	-0.7	90	0.00
6		Aniline	40.000	39.437	1.4	88	-0.01
7	S	Phenol-d6	80.000	81.665	-2.1	90	0.00
8		2-Chlorophenol	40.000	40.132	-0.3	90	0.00
9		Benzaldehyde	40.000	50.425	-26.1#	86	-0.01
10	C	Phenol	40.000	40.161	-0.4	89	0.00
11		bis(2-Chloroethyl)ether	40.000	39.038	2.4	87	-0.01
12		1,3-Dichlorobenzene	40.000	39.235	1.9	88	-0.01
13	C	1,4-Dichlorobenzene	40.000	39.062	2.3	88	-0.02
14		1,2-Dichlorobenzene	40.000	38.832	2.9	87	-0.01
15		Benzyl Alcohol	40.000	39.899	0.3	89	-0.01
16		2,2'-oxybis(1-Chloropropane	40.000	40.140	-0.4	90	-0.01
17		2-Methylphenol	40.000	40.046	-0.1	88	0.00
18		Hexachloroethane	40.000	39.613	1.0	88	-0.01
19	P	n-Nitroso-di-n-propylamine	40.000	37.556	6.1	84	-0.01
20		3+4-Methylphenols	40.000	39.493	1.3	87	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	85	-0.01
22		Acetophenone	40.000	38.928	2.7	85	-0.01
23	S	Nitrobenzene-d5	80.000	81.025	-1.3	88	-0.01
24		Nitrobenzene	40.000	40.614	-1.5	88	0.00
25		Isophorone	40.000	37.953	5.1	83	-0.01
26	C	2-Nitrophenol	40.000	40.687	-1.7	86	-0.01
27		2,4-Dimethylphenol	40.000	39.319	1.7	84	-0.01
28		bis(2-Chloroethoxy)methane	40.000	37.564	6.1	82	-0.01
29	C	2,4-Dichlorophenol	40.000	39.571	1.1	85	0.00
30		1,2,4-Trichlorobenzene	40.000	38.564	3.6	85	-0.01
31		Naphthalene	40.000	38.386	4.0	84	-0.01
32		Benzoic acid	40.000	40.832	-2.1	88	0.00
33		4-Chloroaniline	40.000	38.492	3.8	83	0.00
34	C	Hexachlorobutadiene	40.000	38.476	3.8	84	-0.01
35		Caprolactam	40.000	40.117	-0.3	88	0.00
36	C	4-Chloro-3-methylphenol	40.000	39.266	1.8	85	0.00
37		2-Methylnaphthalene	40.000	37.480	6.3	82	-0.01
38		1-Methylnaphthalene	40.000	37.614	6.0	83	-0.01
39	I	Acenaphthene-d10	20.000	20.000	0.0	82	0.00
40		1,2,4,5-Tetrachlorobenzene	40.000	38.576	3.6	82	-0.01
41	P	Hexachlorocyclopentadiene	40.000	29.463	26.3#	61	-0.01
42	S	2,4,6-Tribromophenol	80.000	79.265	0.9	83	0.00
43	C	2,4,6-Trichlorophenol	40.000	40.614	-1.5	85	0.00
44		2,4,5-Trichlorophenol	40.000	40.151	-0.4	83	0.00
45	S	2-Fluorobiphenyl	80.000	75.290	5.9	81	-0.01
46		1,1'-Biphenyl	40.000	38.311	4.2	81	0.00
47		2-Chloronaphthalene	40.000	38.384	4.0	81	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025542.D
Acq On : 21 Aug 2025 17:11
Operator : CG/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: Aug 21 17:38:37 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 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	43.505	-8.8	89	0.00
49		Acenaphthylene	40.000	39.147	2.1	83	0.00
50		Dimethylphthalate	40.000	38.049	4.9	81	0.00
51		2,6-Dinitrotoluene	40.000	40.158	-0.4	82	0.00
52	C	Acenaphthene	40.000	37.805	5.5	82	0.00
53		3-Nitroaniline	40.000	41.145	-2.9	86	0.00
54	P	2,4-Dinitrophenol	40.000	36.791	8.0	76	0.01
55		Dibenzofuran	40.000	38.412	4.0	82	0.00
56	P	4-Nitrophenol	40.000	43.509	-8.8	91	0.01
57		2,4-Dinitrotoluene	40.000	42.389	-6.0	87	0.00
58		Fluorene	40.000	38.896	2.8	84	0.00
59		2,3,4,6-Tetrachlorophenol	40.000	40.314	-0.8	85	0.00
60		Diethylphthalate	40.000	38.961	2.6	83	0.00
61		4-Chlorophenyl-phenylether	40.000	37.771	5.6	81	0.00
62		4-Nitroaniline	40.000	43.138	-7.8	90	0.00
63		Azobenzene	40.000	40.370	-0.9	85	0.00
64	I	Phenanthrene-d10	20.000	20.000	0.0	83	0.00
65		4,6-Dinitro-2-methylphenol	40.000	33.798	15.5	72	0.00
66	c	n-Nitrosodiphenylamine	40.000	38.596	3.5	83	0.00
67		4-Bromophenyl-phenylether	40.000	37.744	5.6	81	0.00
68		Hexachlorobenzene	40.000	37.762	5.6	83	0.00
69		Atrazine	40.000	39.095	2.3	85	0.00
70	C	Pentachlorophenol	40.000	40.198	-0.5	86	0.01
71		Phenanthrene	40.000	38.954	2.6	86	0.00
72		Anthracene	40.000	38.931	2.7	84	0.00
73		Carbazole	40.000	40.220	-0.5	88	0.00
74		Di-n-butylphthalate	40.000	39.627	0.9	86	0.01
75	C	Fluoranthene	40.000	39.170	2.1	87	0.00
76	I	Chrysene-d12	20.000	20.000	0.0	86	0.00
77		Benzidine	40.000	42.745	-6.9	65	0.00
78		Pyrene	40.000	39.101	2.2	86	0.00
79	S	Terphenyl-d14	80.000	76.735	4.1	86	0.00
80		Butylbenzylphthalate	40.000	40.877	-2.2	90	0.00
81		Benzo(a)anthracene	40.000	39.310	1.7	88	0.00
82		3,3'-Dichlorobenzidine	40.000	40.543	-1.4	89	0.00
83		Chrysene	40.000	38.953	2.6	88	0.00
84		Bis(2-ethylhexyl)phthalate	40.000	39.155	2.1	88	-0.01
85	c	Di-n-octyl phthalate	40.000	41.227	-3.1	92	-0.01
86	I	Perylene-d12	20.000	20.000	0.0	92	0.01
87		Indeno(1,2,3-cd)pyrene	40.000	39.284	1.8	94	0.01
88		Benzo(b)fluoranthene	40.000	37.548	6.1	90	0.02
89		Benzo(k)fluoranthene	40.000	38.472	3.8	92	0.01
90	C	Benzo(a)pyrene	40.000	38.652	3.4	92	0.04
91		Dibenzo(a,h)anthracene	40.000	39.566	1.1	94	0.00
92		Benzo(g,h,i)perylene	40.000	39.705	0.7	94	0.01

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025542.D
Acq On : 21 Aug 2025 17:11
Operator : CG/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: Aug 21 17:38:37 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration

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

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

(#) = Out of Range SPCC's out = 0 CCC's out = 0

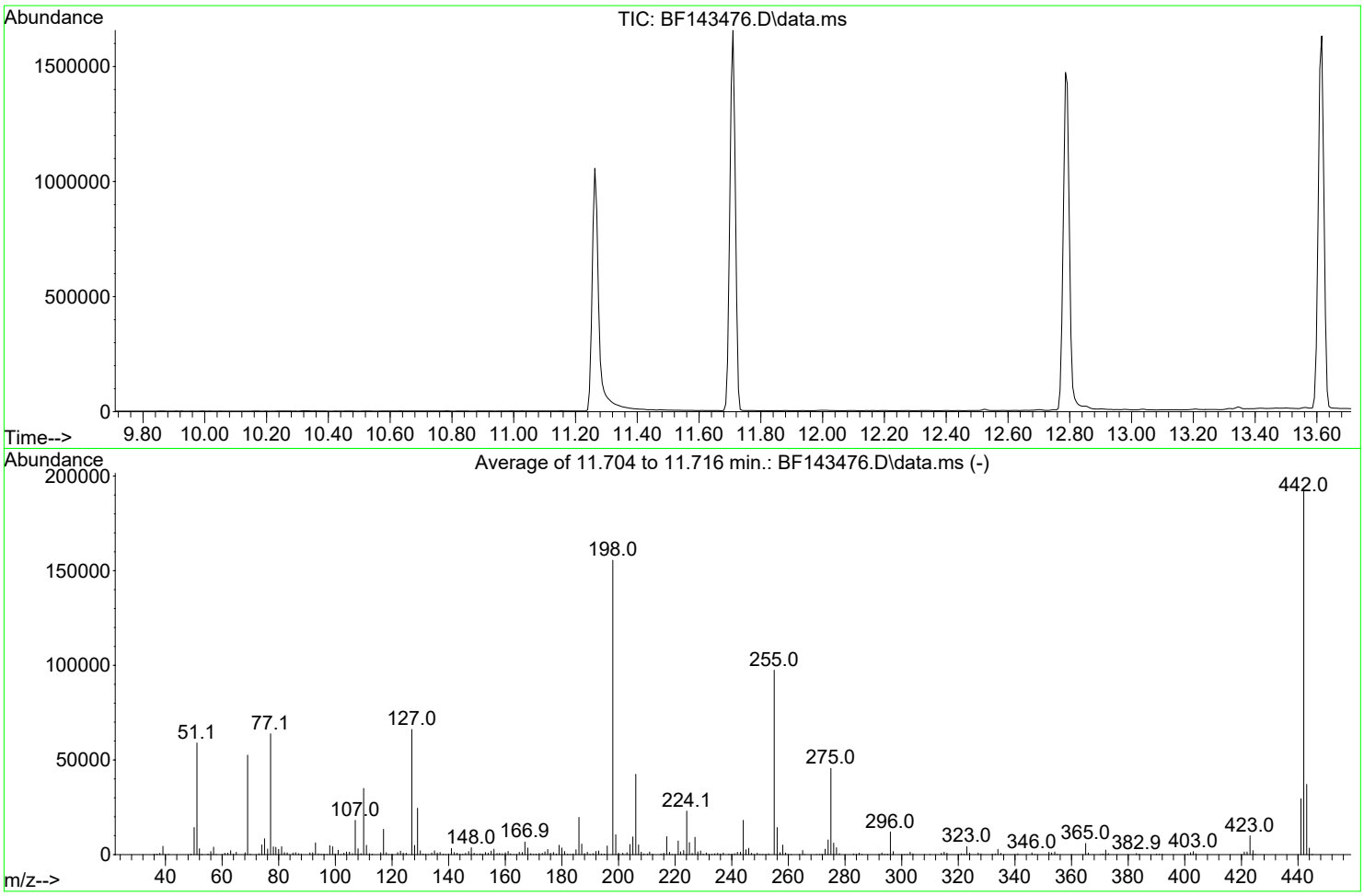
QC SAMPLE DATA

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082025\
Data File : BF143476.D
Acq On : 20 Aug 2025 10:26
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-BF082025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Aug 21 06:12:21 2025



AutoFind: Scans 1617, 1618, 1619; Background Corrected with Scan 1610

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
68	69	0.00	2	1.9	985	PASS
69	69	100	100	100.0	52563	PASS
70	69	0.00	2	0.5	276	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	155509	PASS
199	198	5	9	6.8	10536	PASS
365	198	1	100	3.8	5904	PASS
441	443	0.01	150	79.6	29523	PASS
442	442	100	100	100.0	191893	PASS
443	442	15	24	19.3	37093	PASS

Instrument :
BNA_F
ClientSampleId :
DFTPP

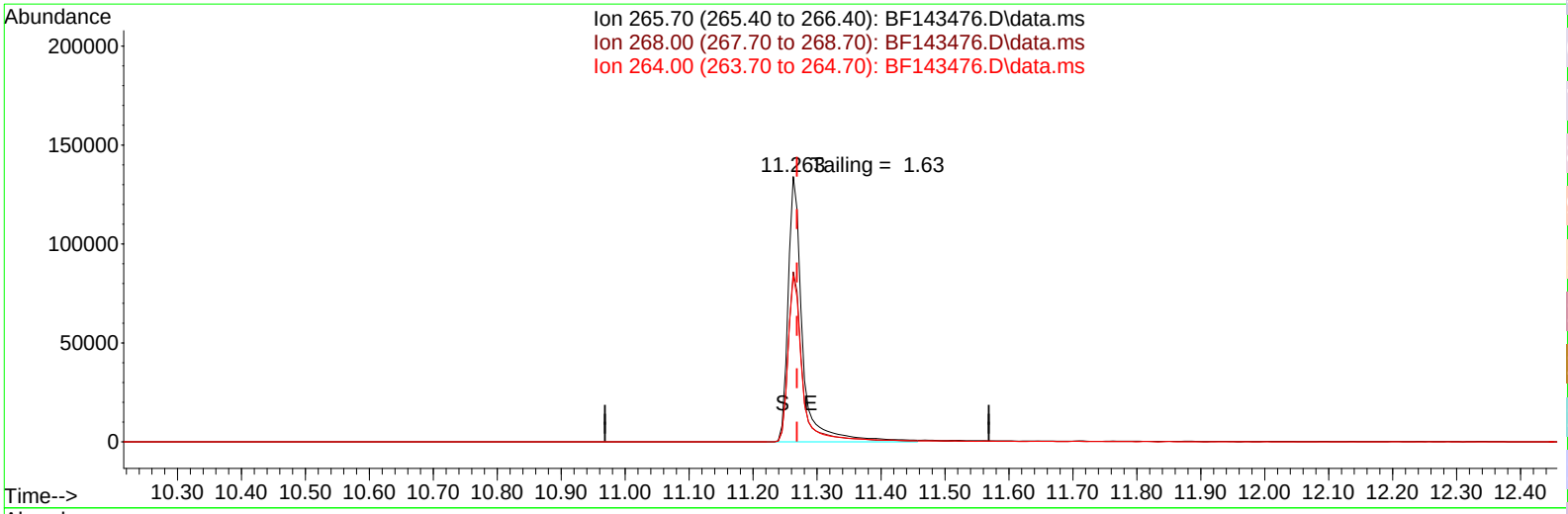
DDT Breakdown

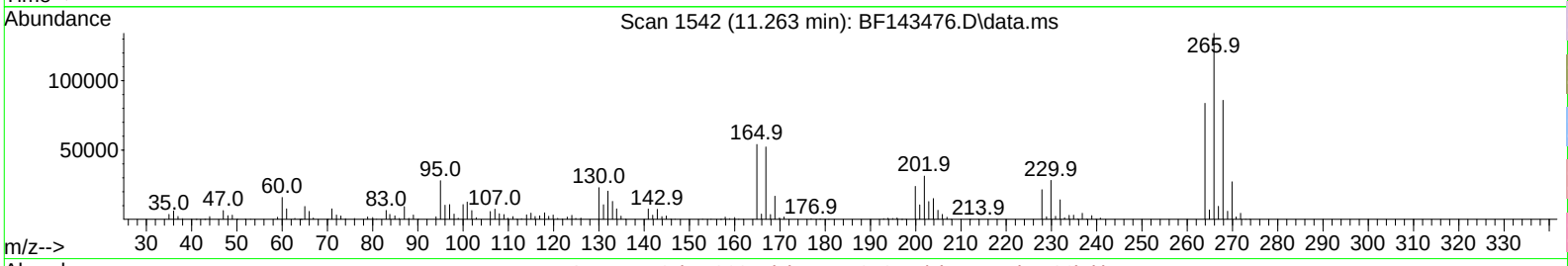
Date	Instrument Name	DFTPP Data File
8/20/2025	BNA_F	BF143476.D
Compound Name	**Response**	**Retention Time**
DDT	414933	13.616
DDD	4692	13.345
DDE	1143	12.98
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
5835	420768	1.39

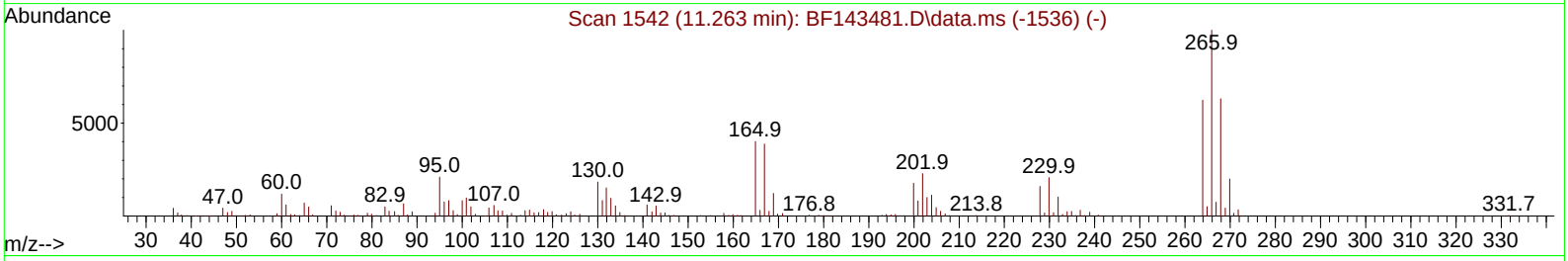
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082025\
Data File : BF143476.D
Acq On : 20 Aug 2025 10:26
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Aug 20 16:18:41 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 20 15:07:46 2025
Response via : Initial Calibration







TIC: BF143476.D\data.ms

(70) Pentachlorophenol (C)

11.263min (-0.006) 46358.19 ng

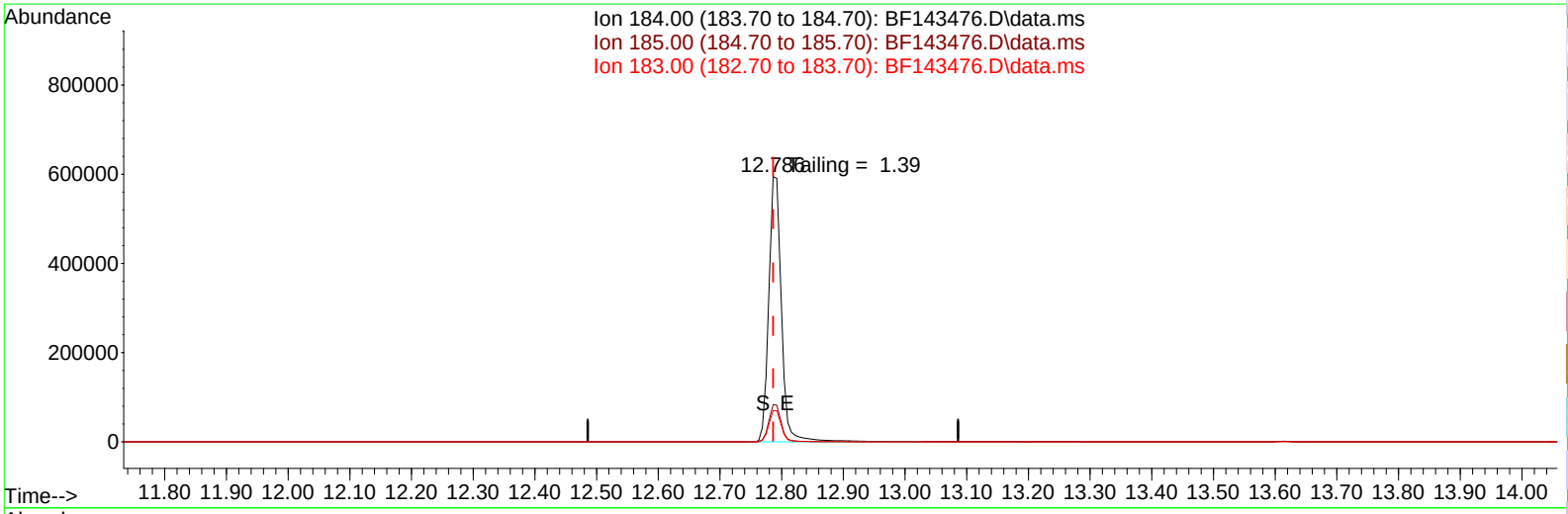
response 211078

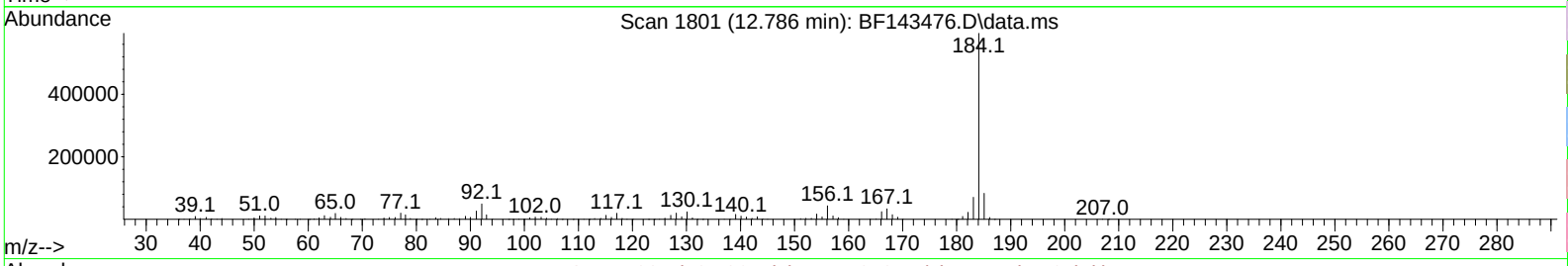
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	63.10	64.07
264.00	62.30	62.45
0.00	0.00	0.00

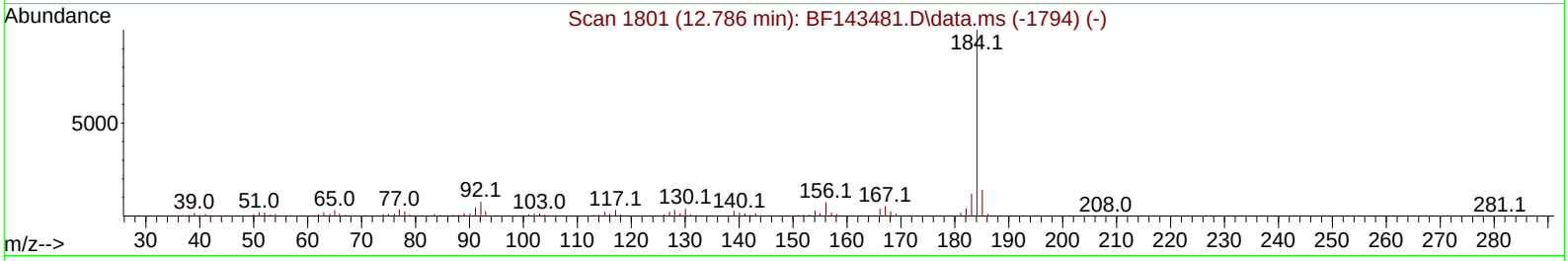
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082025\
Data File : BF143476.D
Acq On : 20 Aug 2025 10:26
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Aug 20 16:18:41 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 20 15:07:46 2025
Response via : Initial Calibration







TIC: BF143476.D\data.ms

(77) Benzidine

12.786min (+ 0.000) 0.00 ng

response 857686

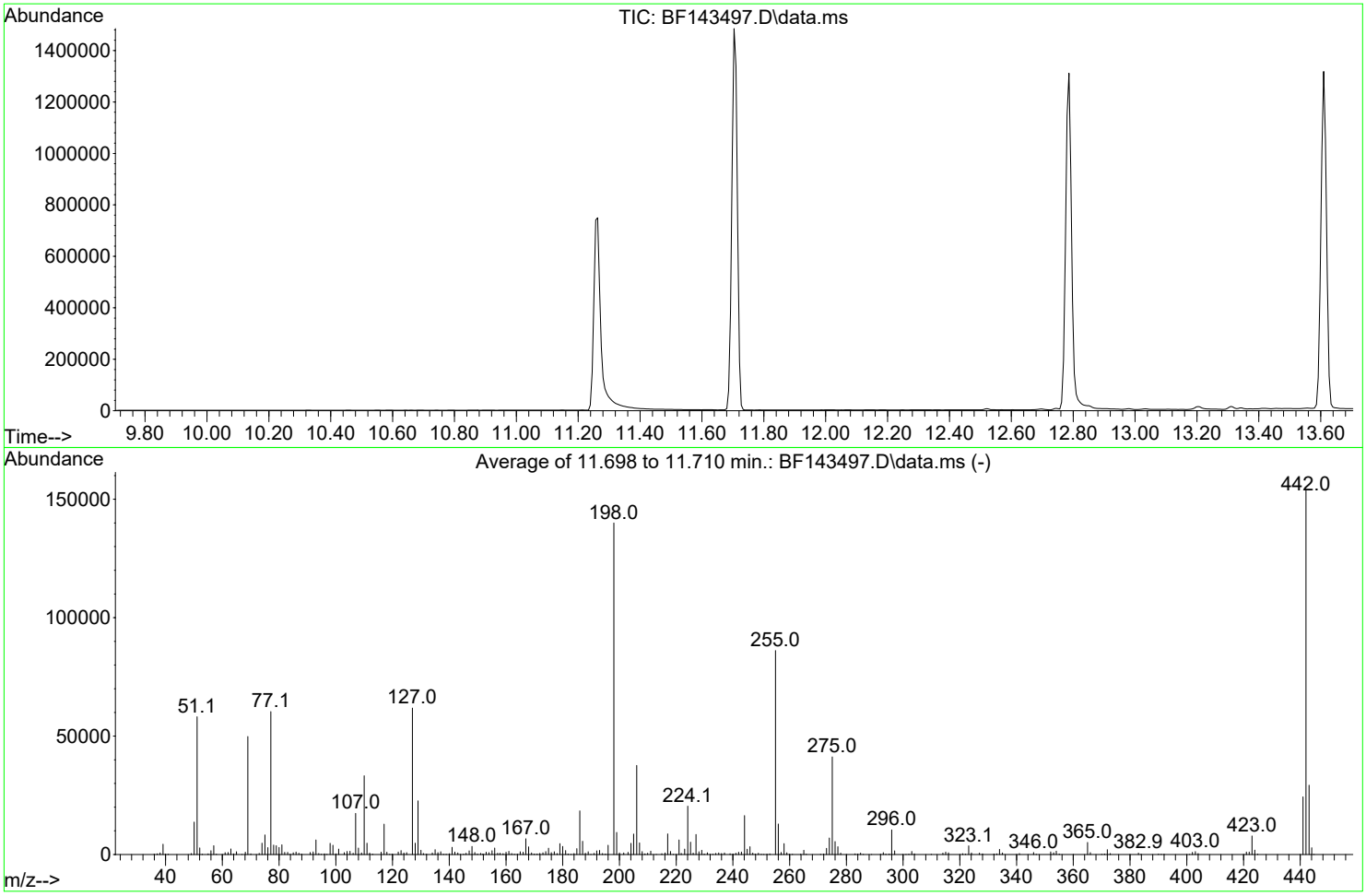
Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.10	14.00
183.00	11.90	11.84
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082025\
Data File : BF143497.D
Acq On : 20 Aug 2025 21:36
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-BF082025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Aug 21 06:12:21 2025



AutoFind: Scans 1616, 1617, 1618; Background Corrected with Scan 1610

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
68	69	0.00	2	2.0	984	PASS
69	69	100	100	100.0	49792	PASS
70	69	0.00	2	0.6	289	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	139989	PASS
199	198	5	9	6.7	9329	PASS
365	198	1	100	3.6	5107	PASS
441	443	0.01	150	83.2	24347	PASS
442	442	100	100	100.0	153672	PASS
443	442	15	24	19.0	29261	PASS

Instrument :
BNA_F
ClientSampleId :
DFTPP

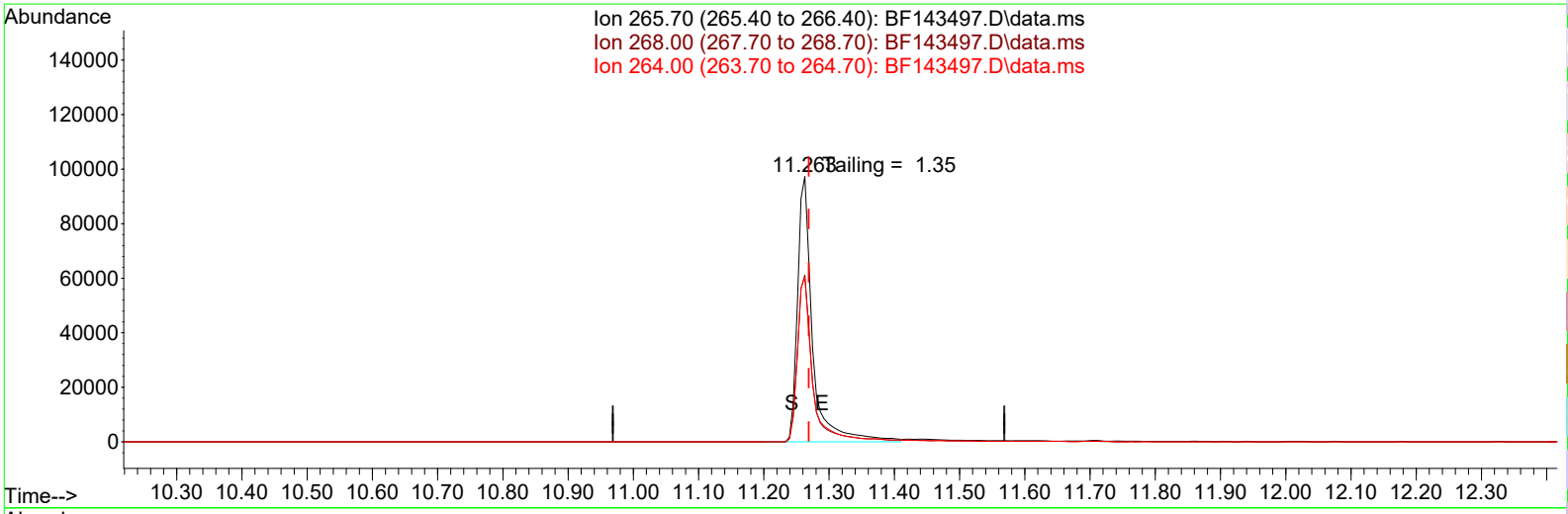
DDT Breakdown

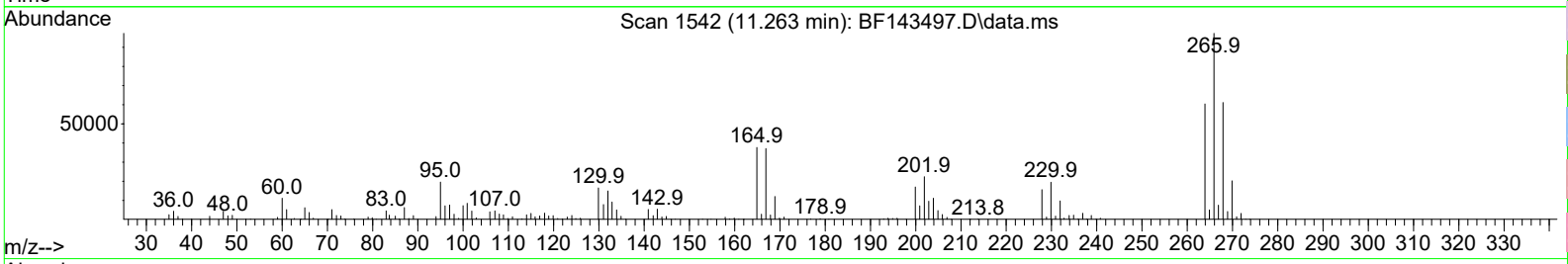
Date	Instrument Name	DFTPP Data File
8/20/2025	BNA_F	BF143497.D
Compound Name	**Response**	**Retention Time**
DDT	312124	13.61
DDD	5317	13.31
DDE	1164	12.98
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
6481	318605	2.03

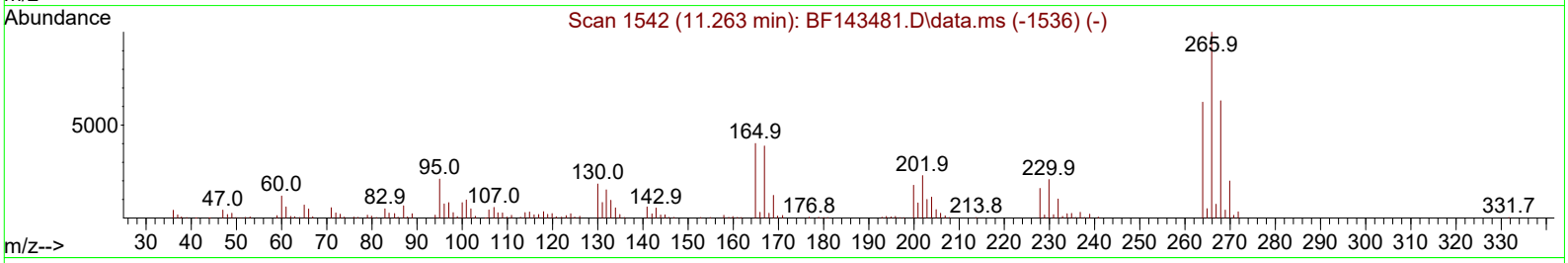
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082025\
Data File : BF143497.D
Acq On : 20 Aug 2025 21:36
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Aug 21 02:56:15 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 20 15:07:46 2025
Response via : Initial Calibration







TIC: BF143497.D\data.ms

(70) Pentachlorophenol (C)

11.263min (-0.006) 130789.27 ng

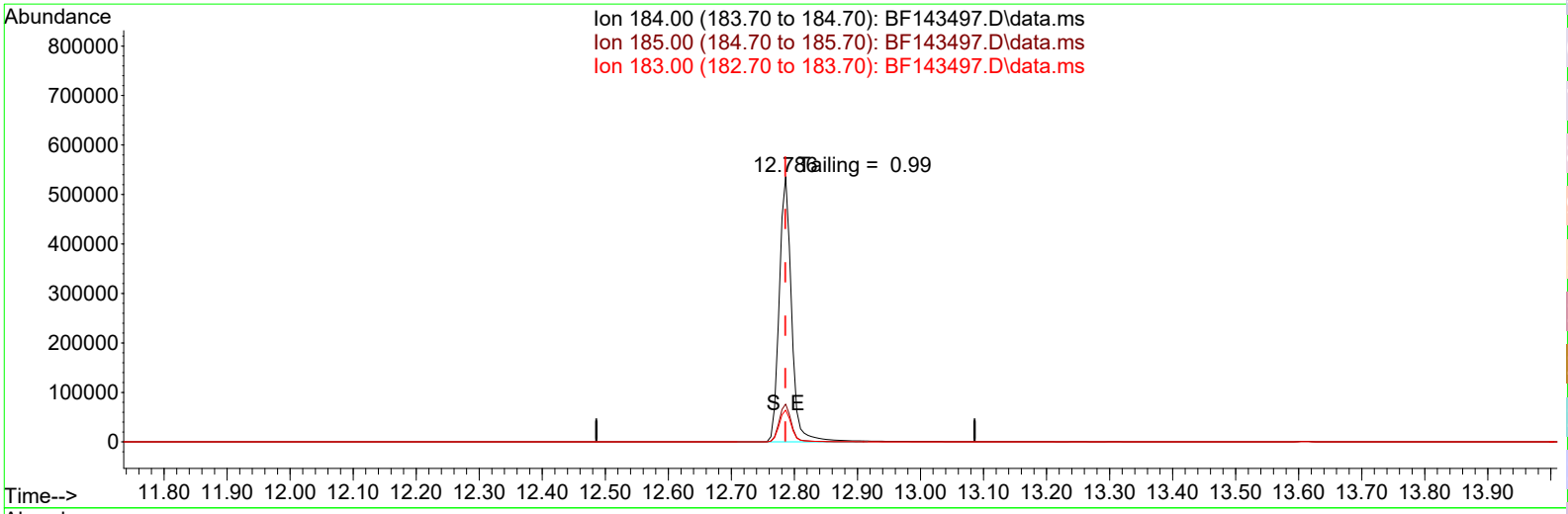
response 157159

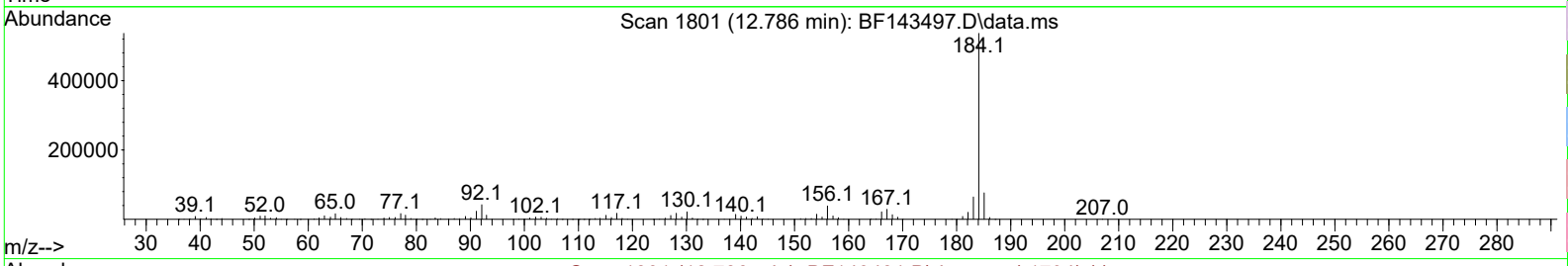
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	63.10	62.88
264.00	62.30	62.11
0.00	0.00	0.00

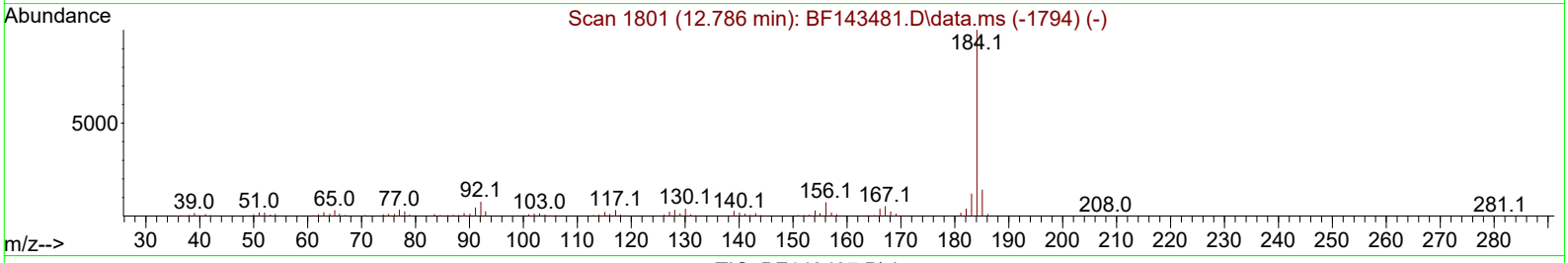
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082025\
Data File : BF143497.D
Acq On : 20 Aug 2025 21:36
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Aug 21 02:56:15 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 20 15:07:46 2025
Response via : Initial Calibration







TIC: BF143497.D\data.ms

(77) Benzidine

12.786min (+ 0.000) 0.00 ng

response 737567

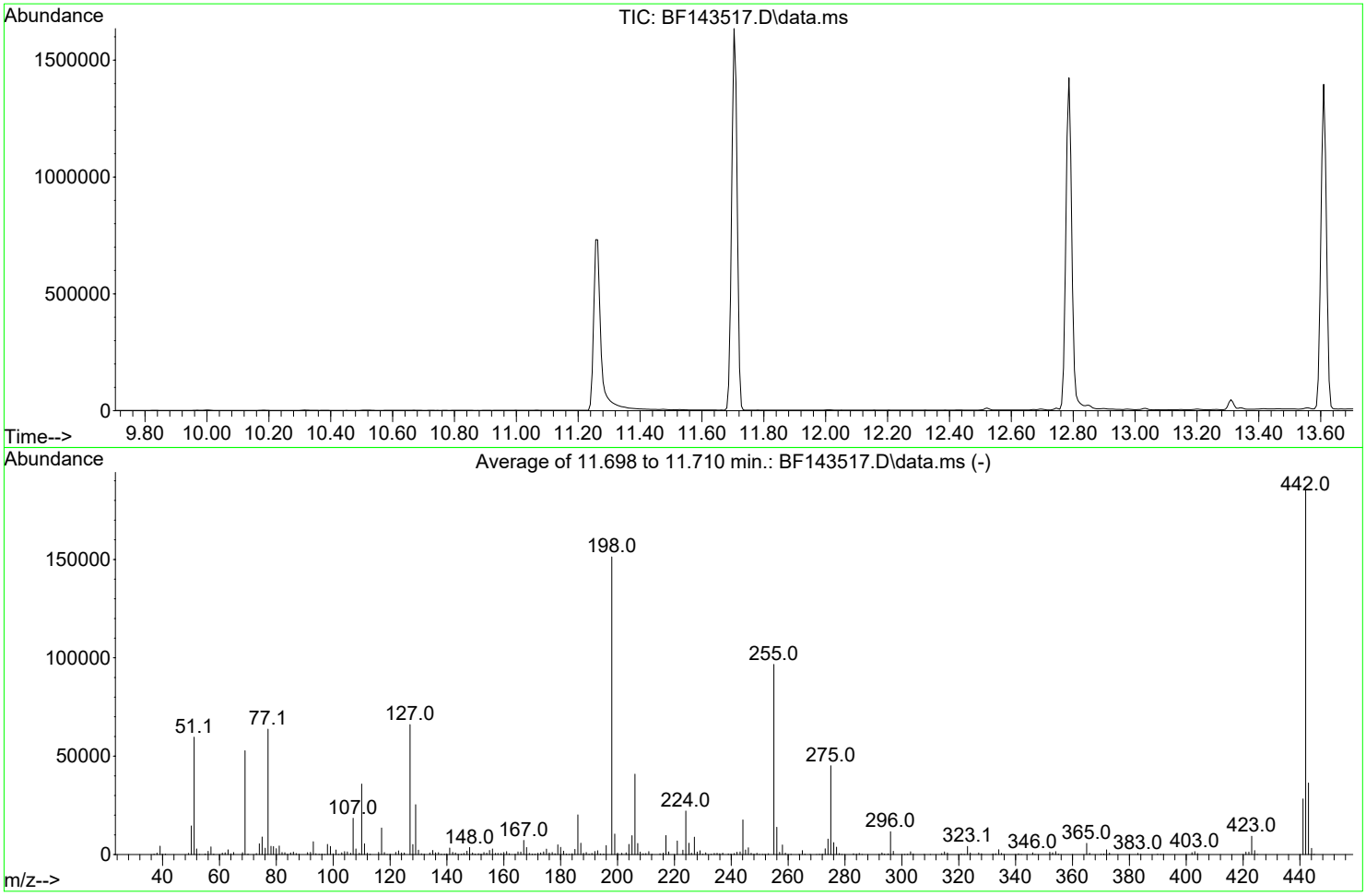
Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.10	14.26
183.00	11.90	12.02
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
Data File : BF143517.D
Acq On : 21 Aug 2025 08:20
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-BF082025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Aug 21 06:12:21 2025



AutoFind: Scans 1616, 1617, 1618; Background Corrected with Scan 1610

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
68	69	0.00	2	1.9	984	PASS
69	69	100	100	100.0	52787	PASS
70	69	0.00	2	0.6	326	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	151288	PASS
199	198	5	9	6.9	10453	PASS
365	198	1	100	3.8	5742	PASS
441	443	0.01	150	77.6	28243	PASS
442	442	100	100	100.0	185035	PASS
443	442	15	24	19.7	36395	PASS

Instrument :
BNA_F
ClientSampleId :
DFTPP

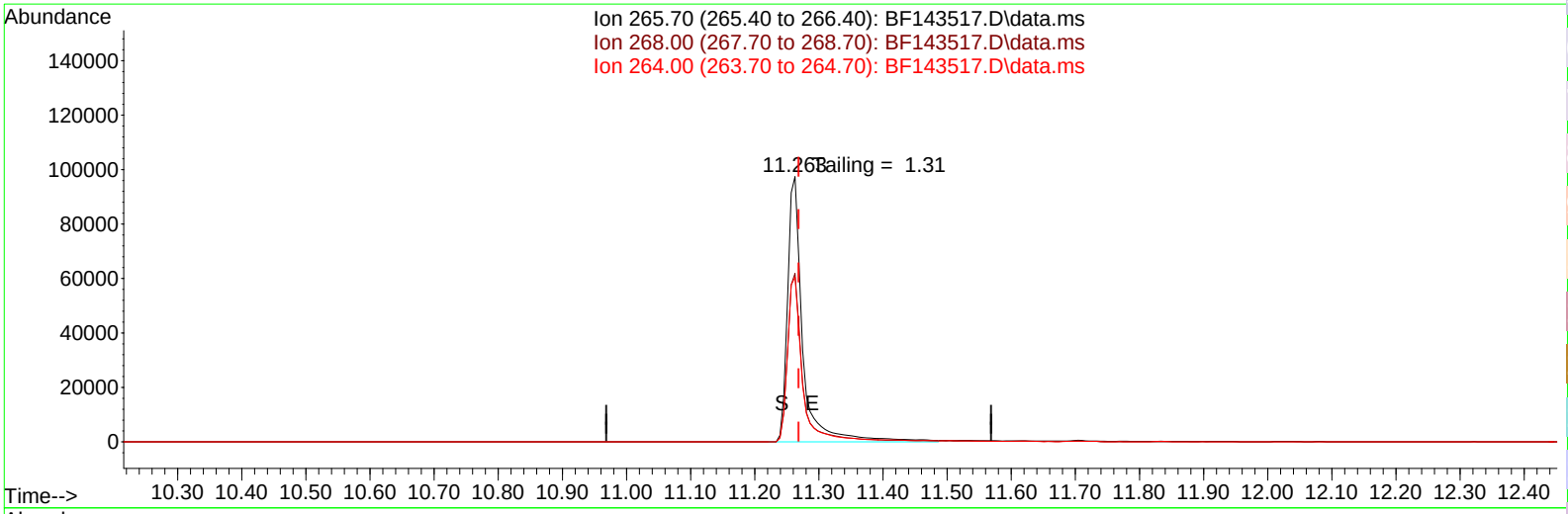
DDT Breakdown

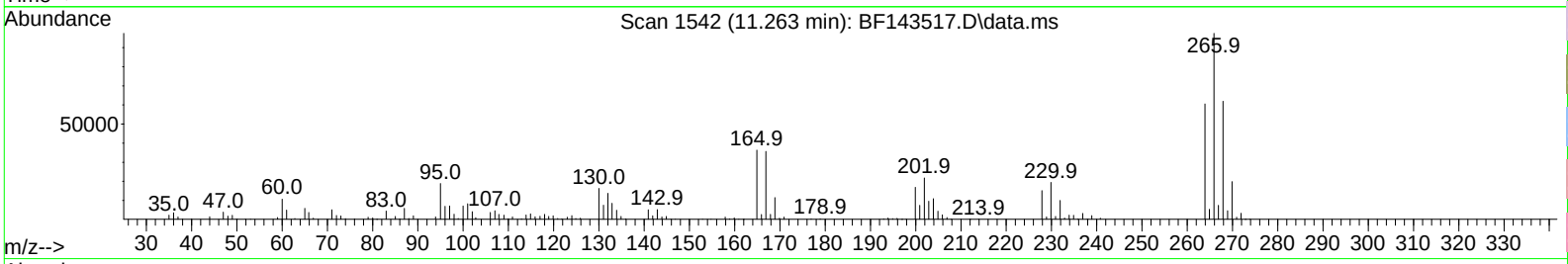
Date	Instrument Name	DFTPP Data File
8/21/2025	BNA_F	BF143517.D
Compound Name	**Response**	**Retention Time**
DDT	346568	13.61
DDD	14042	13.31
DDE	896	12.974
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
14938	361506	4.13

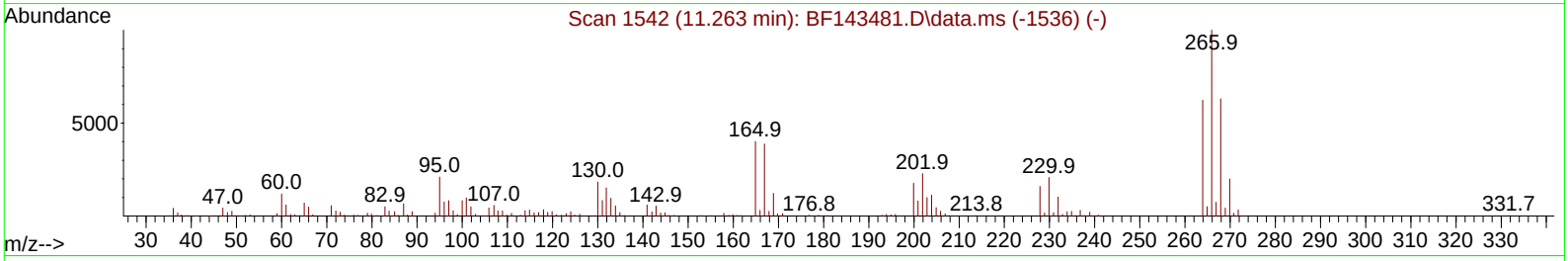
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
Data File : BF143517.D
Acq On : 21 Aug 2025 08:20
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Aug 21 08:42:13 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 21 06:12:21 2025
Response via : Initial Calibration







TIC: BF143517.D\data.ms

(70) Pentachlorophenol (C)

11.263min (-0.006) 27043.48 ng

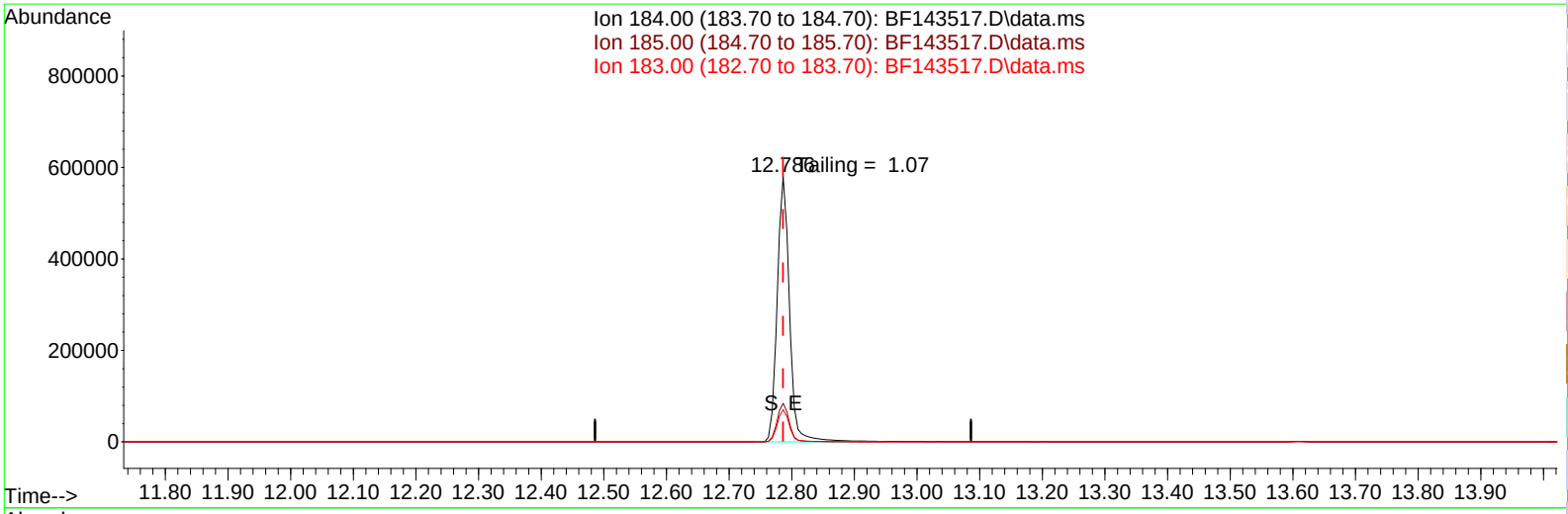
response 160887

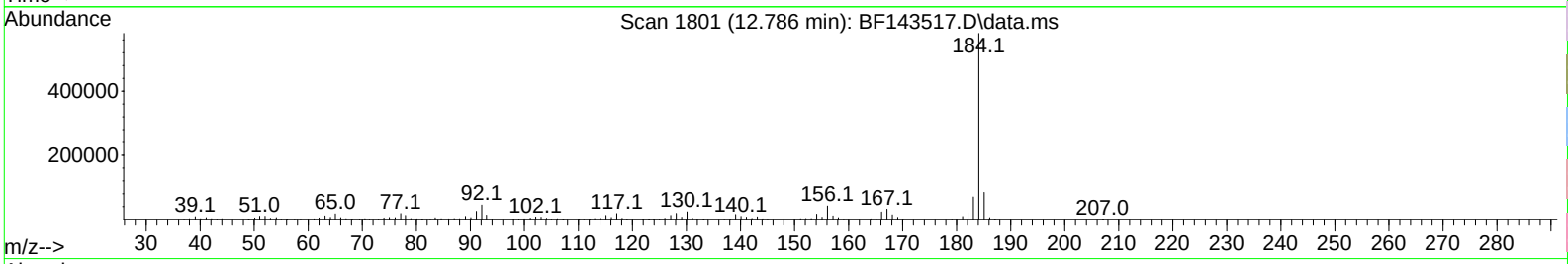
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	63.10	63.52
264.00	62.30	62.15
0.00	0.00	0.00

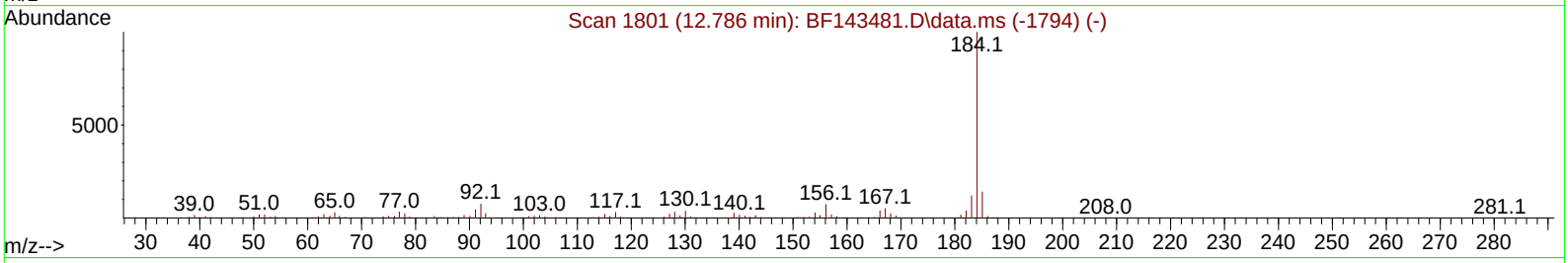
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
Data File : BF143517.D
Acq On : 21 Aug 2025 08:20
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Aug 21 08:42:13 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 21 06:12:21 2025
Response via : Initial Calibration







TIC: BF143517.D\data.ms

(77) Benzidine

12.786min (+ 0.000) 116738.94 ng

response 796205

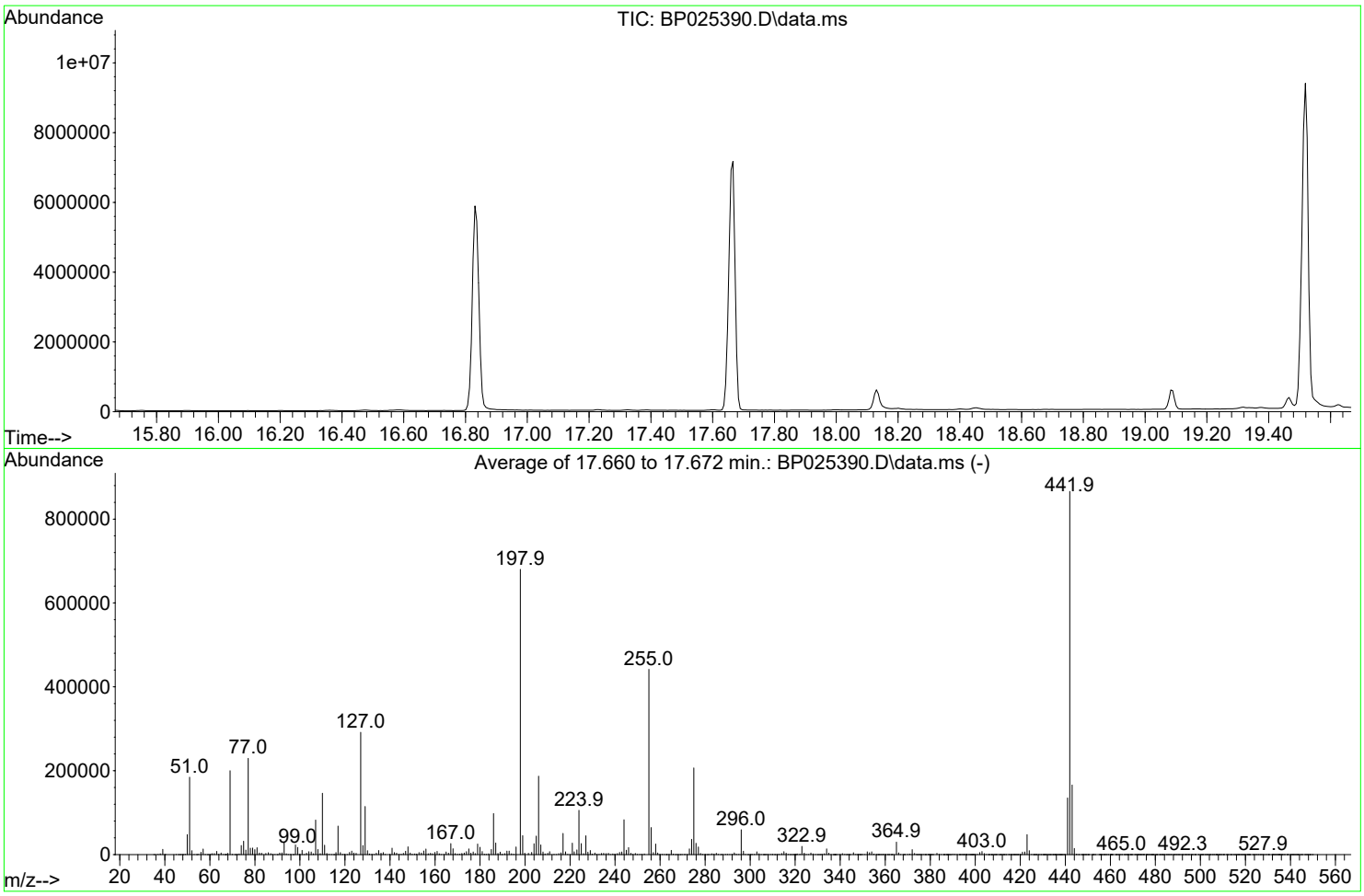
Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.10	14.54
183.00	11.90	12.13
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081425\
Data File : BP025390.D
Acq On : 14 Aug 2025 10:30
Operator : CG/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Aug 14 18:14:31 2025



AutoFind: Scans 2503, 2504, 2505; Background Corrected with Scan 2494

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
68	69	0.00	2	1.6	3290	PASS
69	69	100	100	100.0	199967	PASS
70	69	0.00	2	0.4	716	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	680138	PASS
199	198	5	9	6.7	45247	PASS
365	198	1	100	4.4	29981	PASS
441	443	0.01	150	81.3	135091	PASS
442	442	100	100	100.0	866023	PASS
443	442	15	24	19.2	166133	PASS

Instrument :
BNA_P
ClientSampleId :
DFTPP

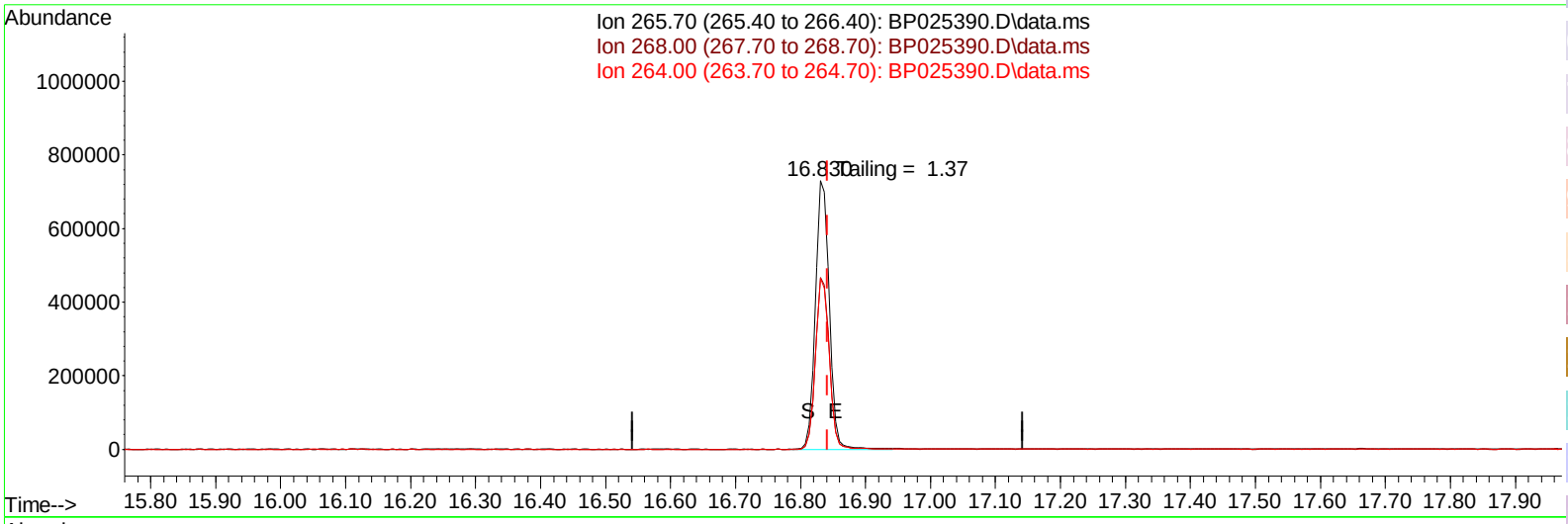
DDT Breakdown

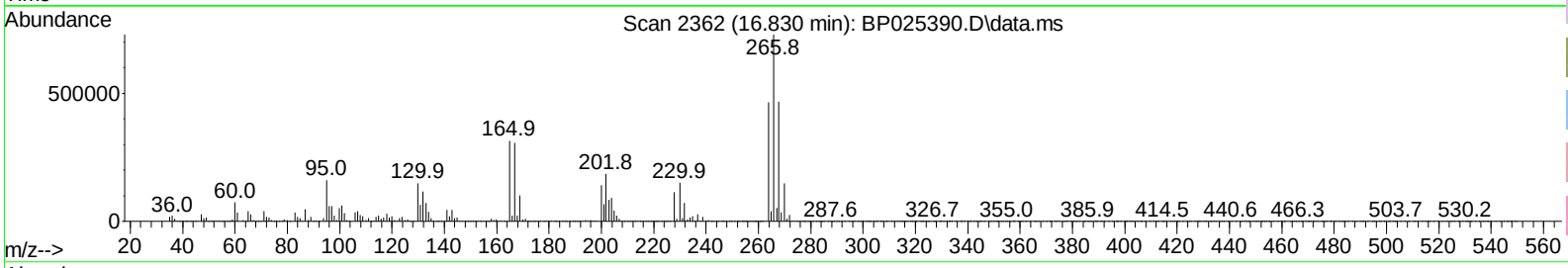
Date	Instrument Name	DFTPP Data File
8/14/2025	BNA_P	BP025390.D
Compound Name	**Response**	**Retention Time**
DDT	2976098	20.818
DDD	52170	20.407
DDE	9165	19.824
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
61335	3037433	2.02

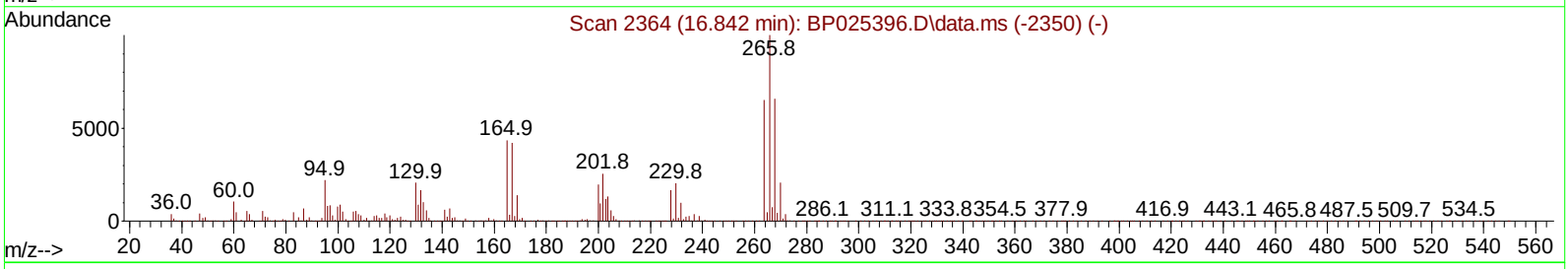
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081425\
Data File : BP025390.D
Acq On : 14 Aug 2025 10:30
Operator : CG/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
DFTPP

Quant Time: Aug 14 18:17:37 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration







TIC: BP025390.D\data.ms

(70) Pentachlorophenol (C)

16.830min (-0.012) 61985.64 ng

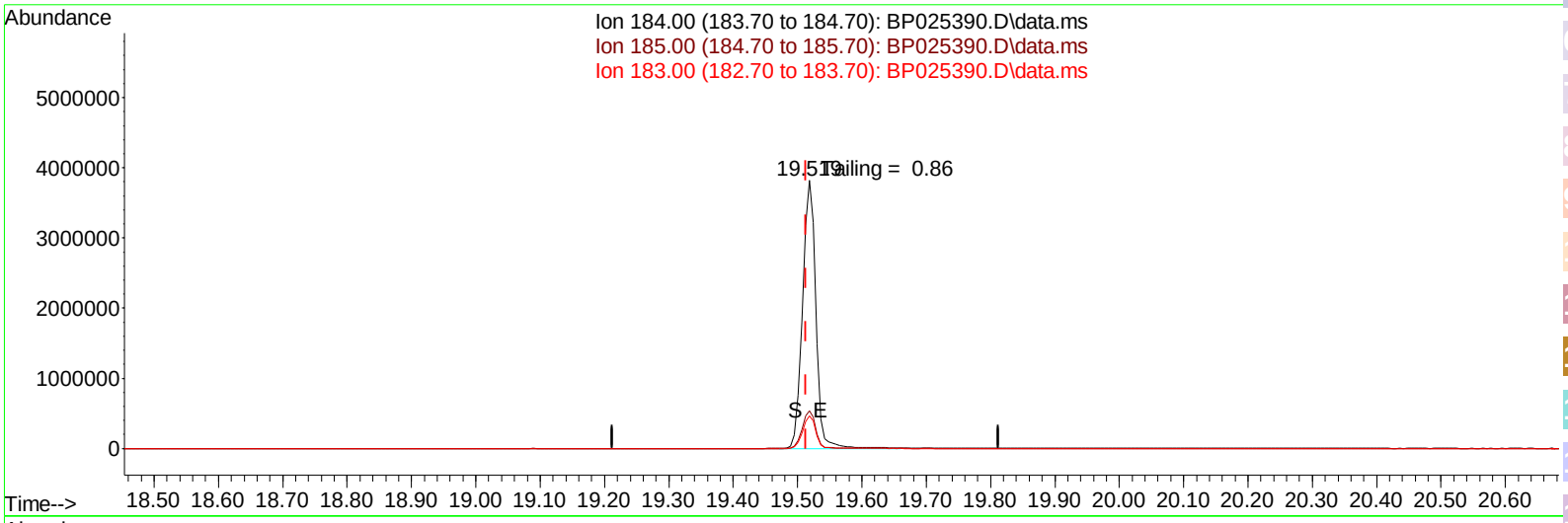
response 1096483

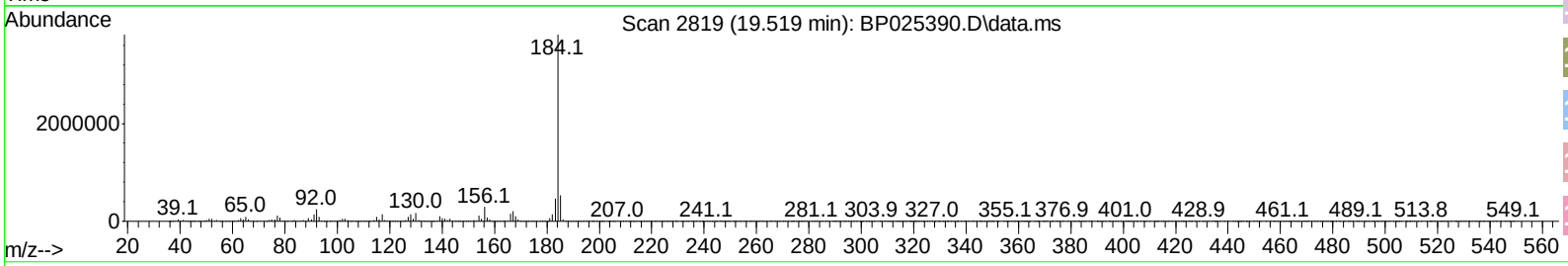
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	65.80	64.04
264.00	65.00	63.79
0.00	0.00	0.00

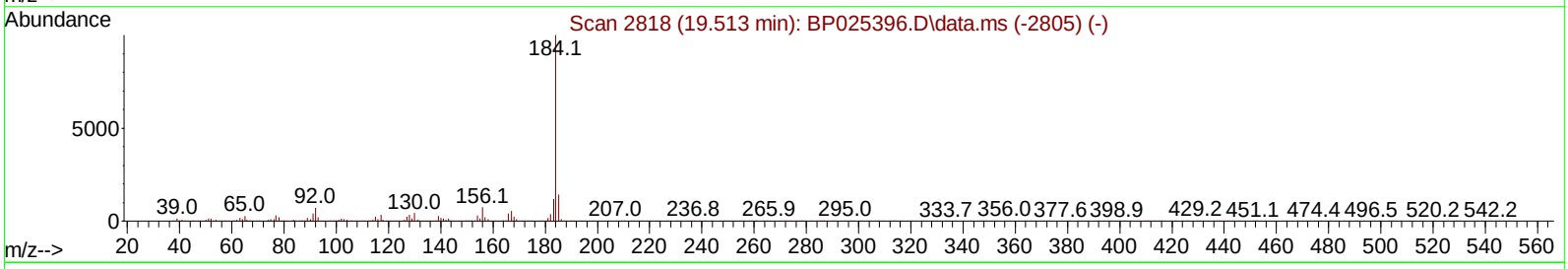
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081425\
Data File : BP025390.D
Acq On : 14 Aug 2025 10:30
Operator : CG/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
DFTPP

Quant Time: Aug 14 18:17:37 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration







TIC: BP025390.D\data.ms

(77) Benzidine

19.519min (+ 0.006) 64482.34 ng

response 5499416

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.40	14.03
183.00	11.80	12.10
0.00	0.00	0.00

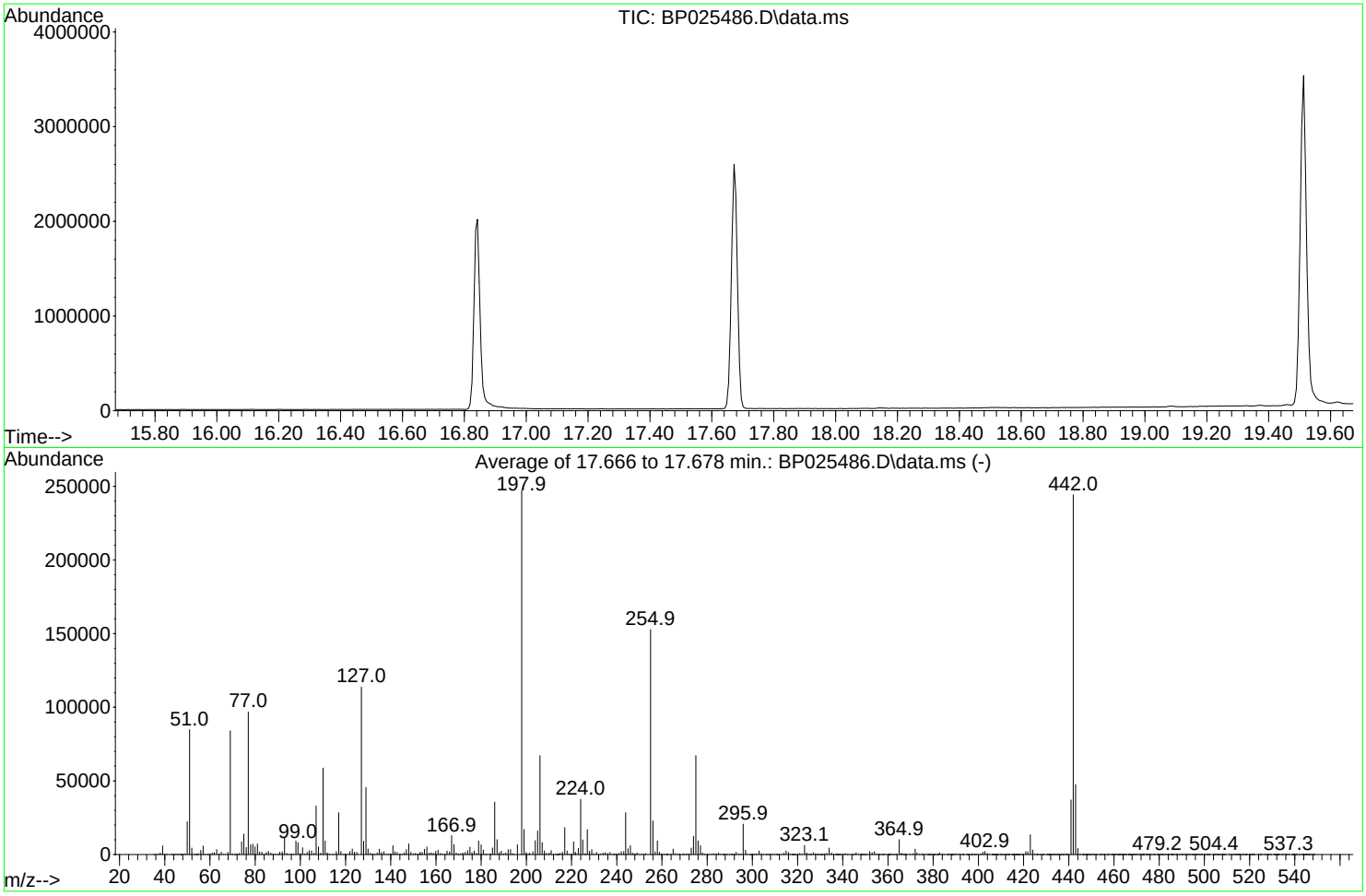
Sample Results: **BP025486.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081925\
Data File : BP025486.D
Acq On : 19 Aug 2025 23:05
Operator : CG/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Aug 14 18:14:31 2025



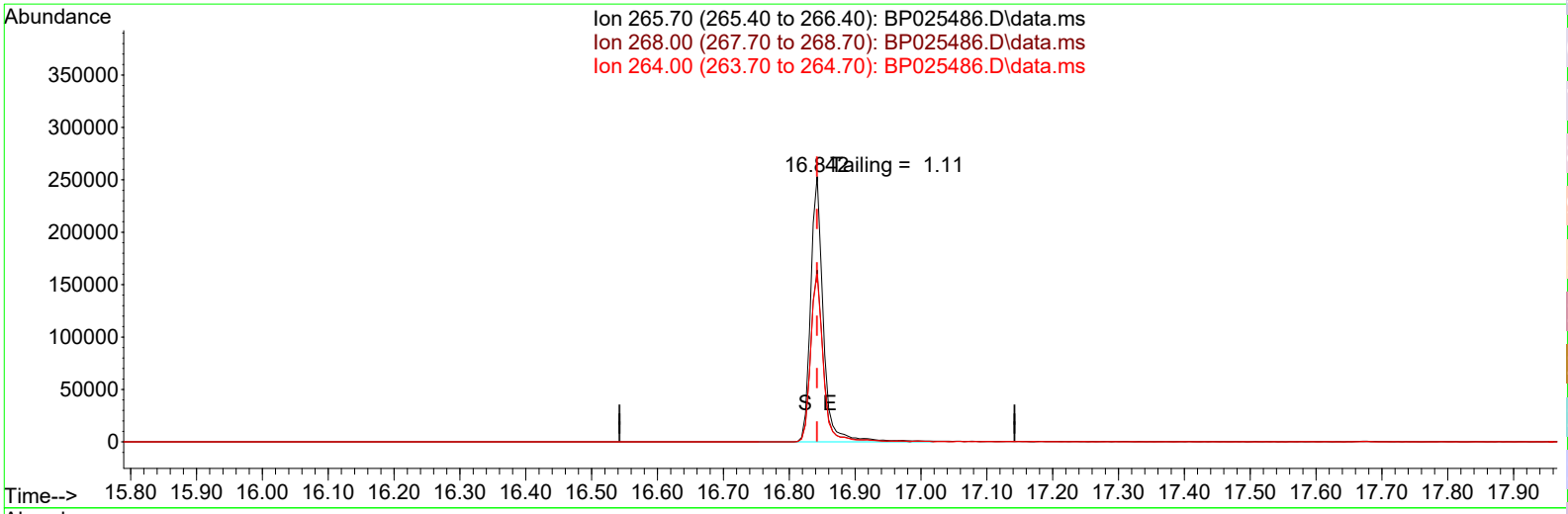
AutoFind: Scans 2504, 2505, 2506; Background Corrected with Scan 2490

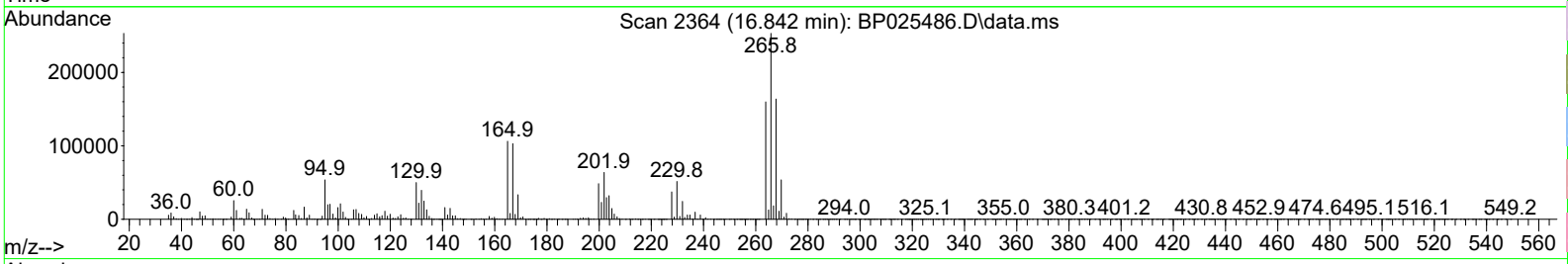
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
68	69	0.00	2	1.8	1538	PASS
69	69	100	100	100.0	83998	PASS
70	69	0.00	2	0.5	443	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	247117	PASS
199	198	5	9	6.9	17035	PASS
365	198	1	100	4.1	10085	PASS
441	443	0.01	150	78.2	37107	PASS
442	442	100	100	100.0	244224	PASS
443	442	15	24	19.4	47432	PASS

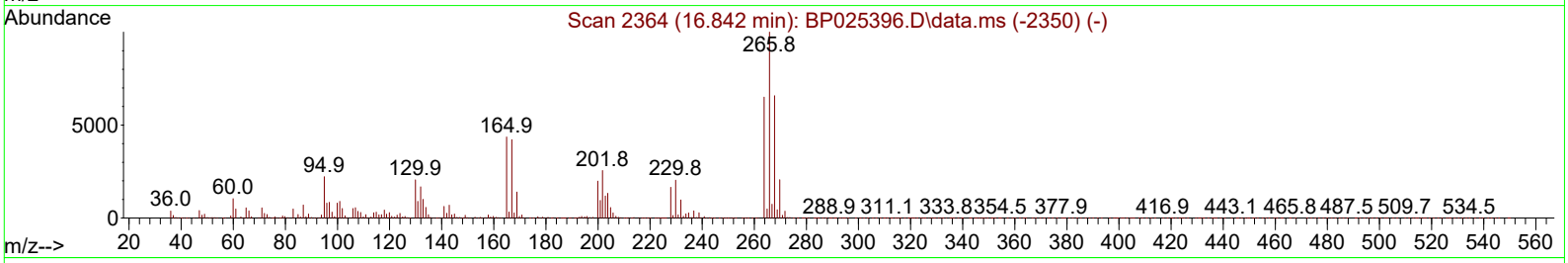
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081925\
Data File : BP025486.D
Acq On : 19 Aug 2025 23:05
Operator : CG/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
DFTPP

Quant Time: Aug 20 02:50:06 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration







TIC: BP025486.D\data.ms

(70) Pentachlorophenol (C)

16.842min (+ 0.000) 158046.45 ng

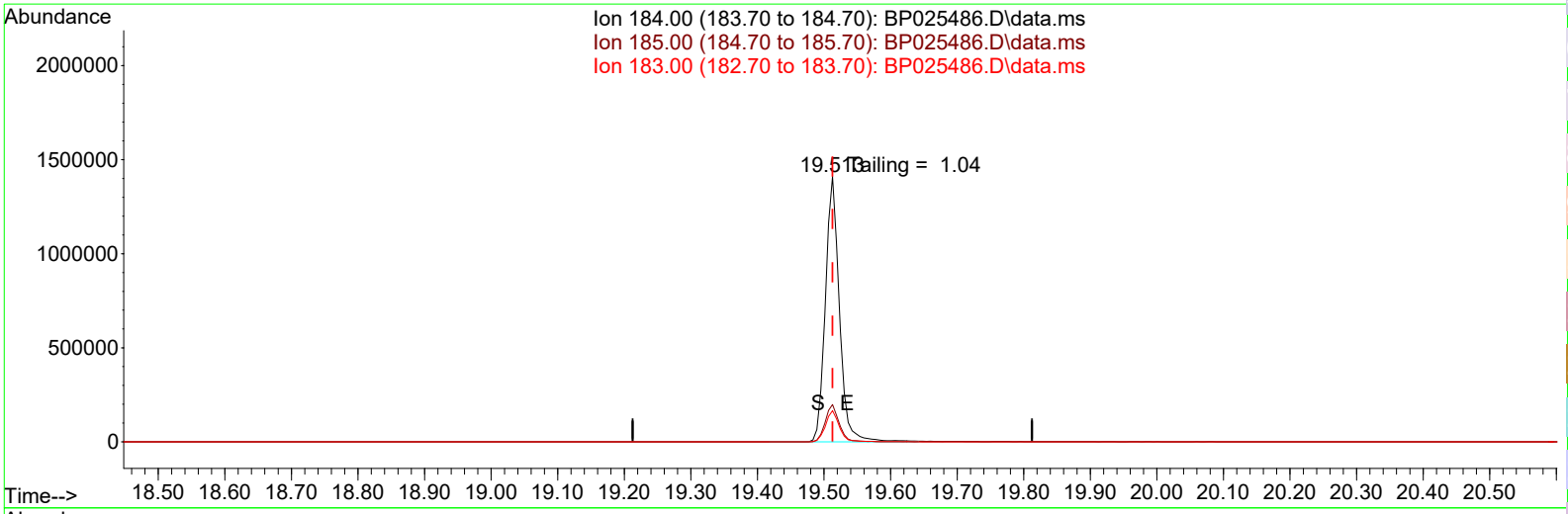
response 338337

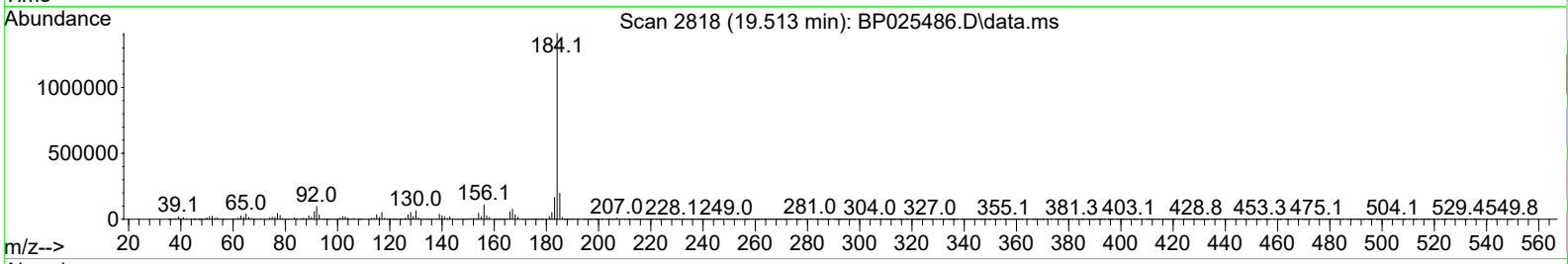
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	65.80	64.68
264.00	65.00	63.19
0.00	0.00	0.00

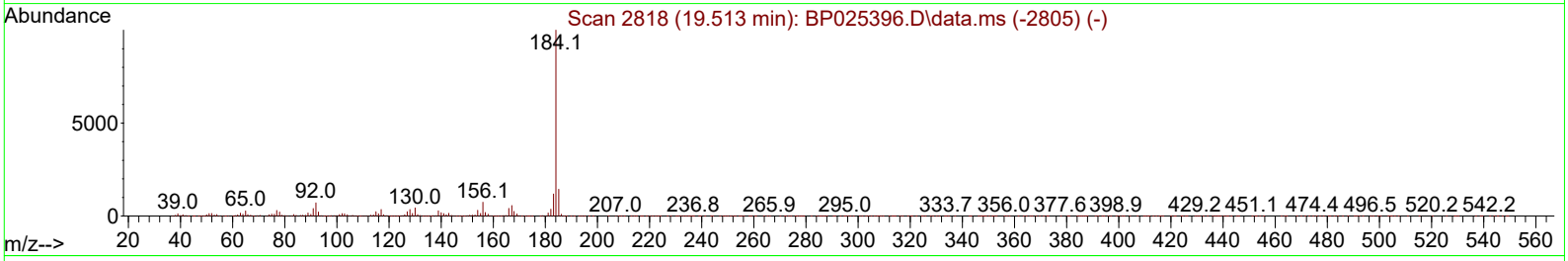
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081925\
Data File : BP025486.D
Acq On : 19 Aug 2025 23:05
Operator : CG/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
DFTPP

Quant Time: Aug 20 02:50:06 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration







TIC: BP025486.D\data.ms

(77) Benzidine

19.513min (+ 0.000) 55037.12 ng

response 2058618

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.40	14.07
183.00	11.80	11.73
0.00	0.00	0.00

Instrument :
BNA_P
ClientSampleId :
DFTPP

DDT Breakdown

Date	Instrument Name	DFTPP Data File
8/19/2025	BNA_P	BP025486.D
Compound Name	**Response**	**Retention Time**
DDT	1027414	20.807
DDD	15935	20.342
DDE	3495	19.83
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
19430	1046844	1.86

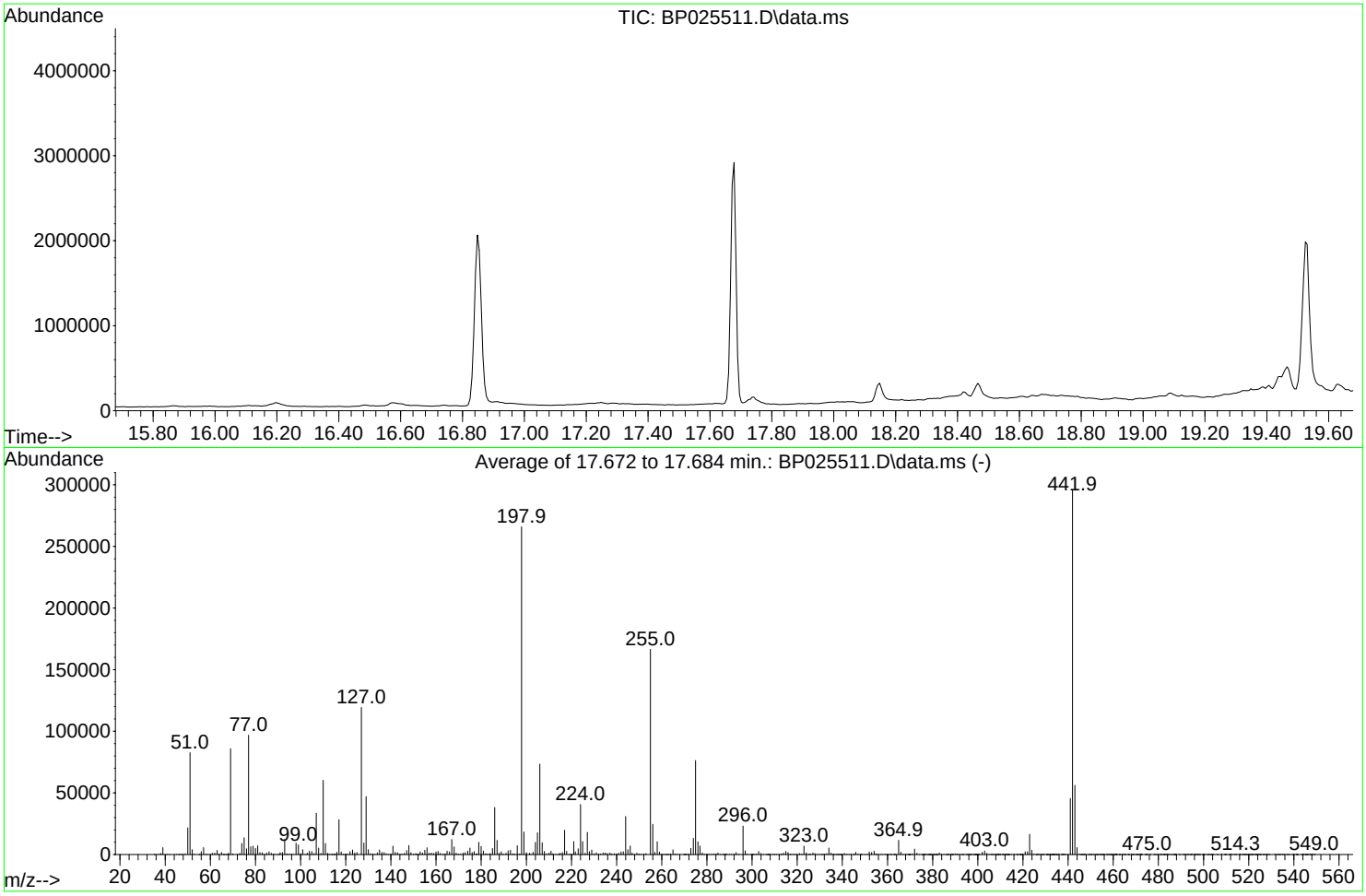
Sample Results: **BP025511.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025511.D
Acq On : 20 Aug 2025 17:04
Operator : CG/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Aug 14 18:14:31 2025



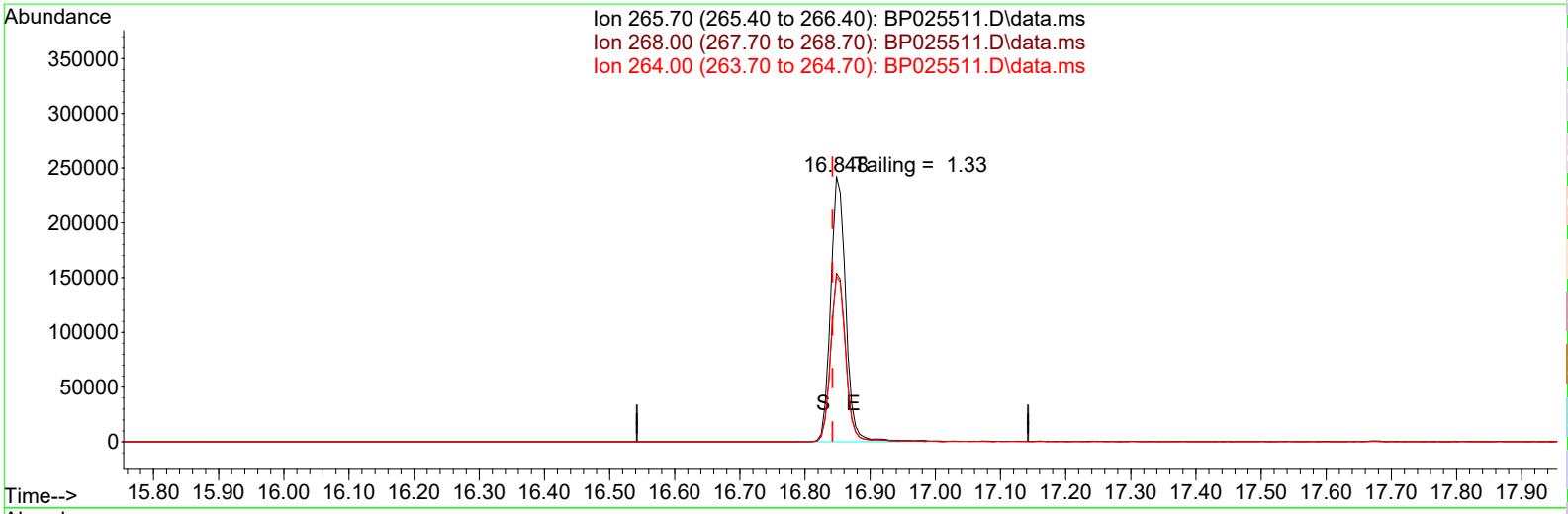
AutoFind: Scans 2505, 2506, 2507; Background Corrected with Scan 2494

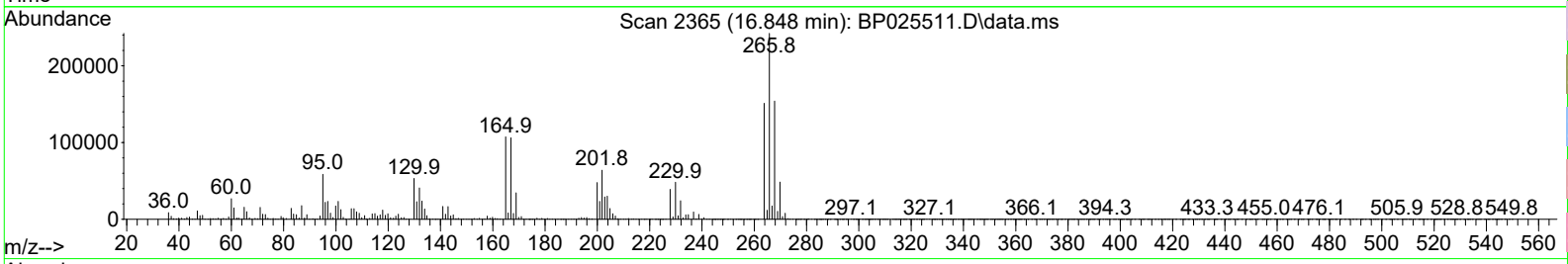
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
68	69	0.00	2	1.1	967	PASS
69	69	100	100	100.0	85970	PASS
70	69	0.00	2	0.7	593	PASS
197	198	0.00	2	0.2	540	PASS
198	198	100	100	100.0	265973	PASS
199	198	5	9	6.9	18267	PASS
365	198	1	100	4.4	11643	PASS
441	443	0.01	150	80.9	45462	PASS
442	442	100	100	100.0	295314	PASS
443	442	15	24	19.0	56176	PASS

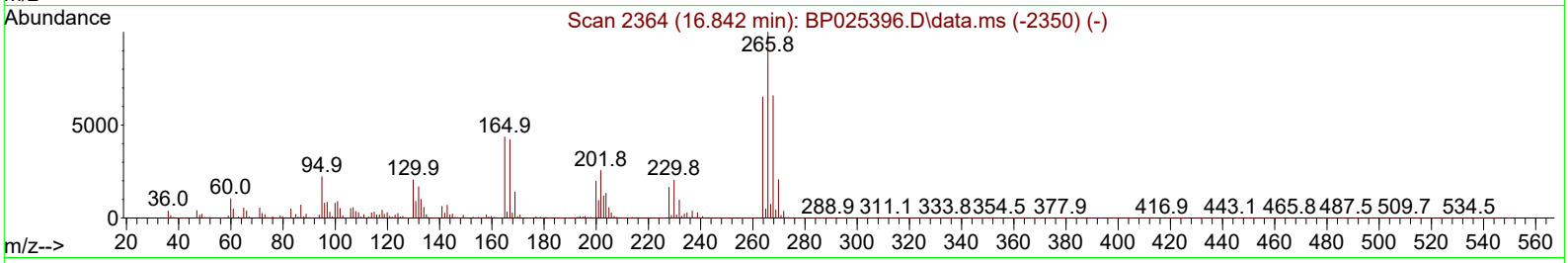
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025511.D
Acq On : 20 Aug 2025 17:04
Operator : CG/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
DFTPP

Quant Time: Aug 21 01:41:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration







TIC: BP025511.D\data.ms

(70) Pentachlorophenol (C)

16.848min (+ 0.006) 19981.54 ng

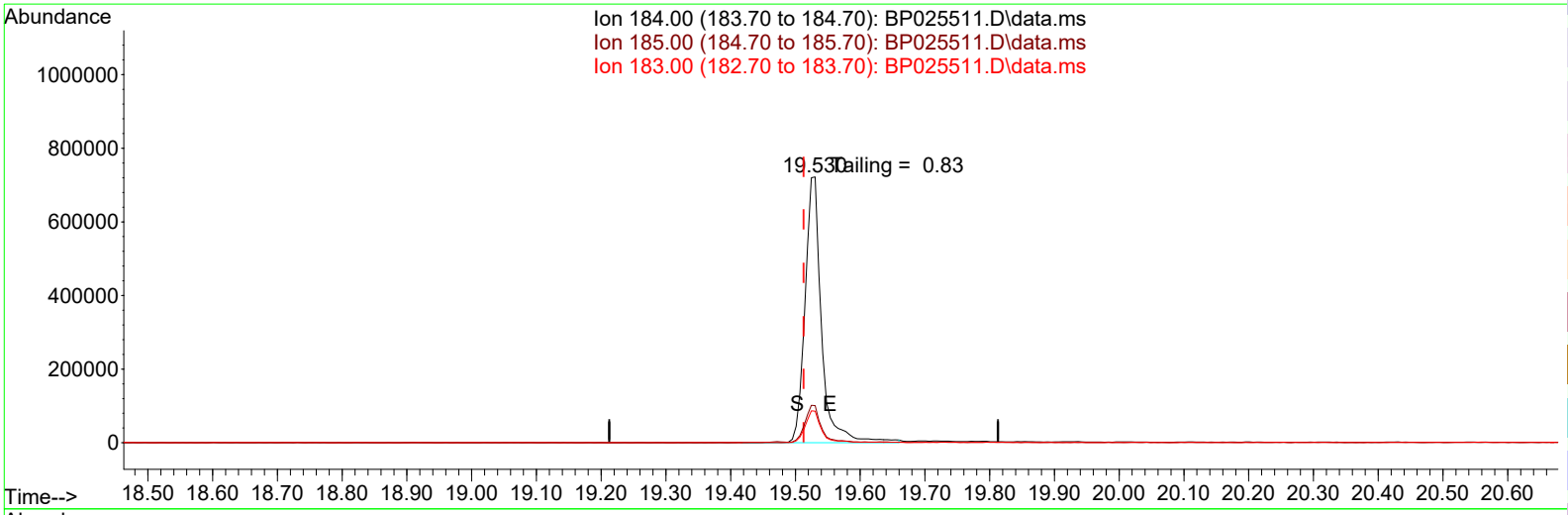
response 390285

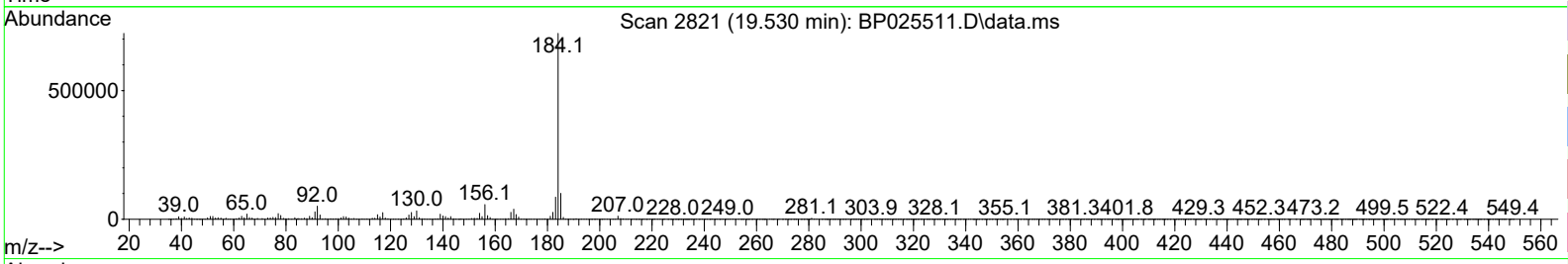
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	65.80	63.60
264.00	65.00	62.36
0.00	0.00	0.00

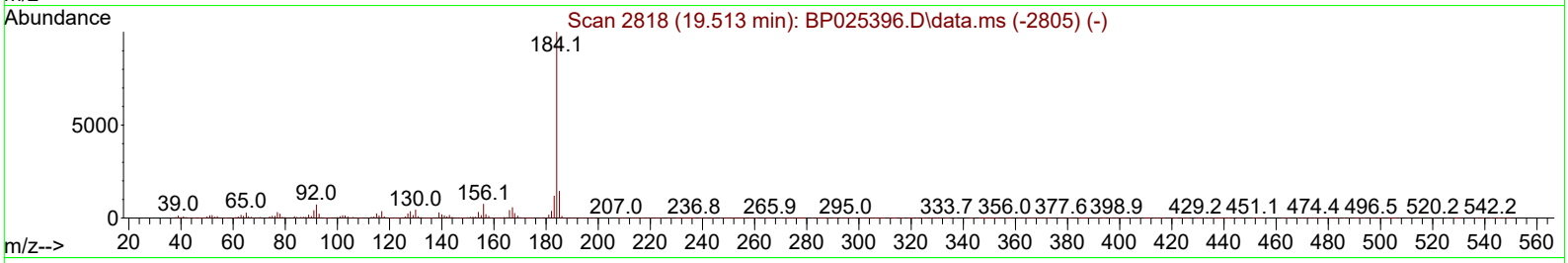
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025511.D
Acq On : 20 Aug 2025 17:04
Operator : CG/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
DFTPP

Quant Time: Aug 21 01:41:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration







TIC: BP025511.D\data.ms

(77) Benzidine

19.530min (+ 0.018) 12499.23 ng

response 1286969

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.40	13.98
183.00	11.80	11.89
0.00	0.00	0.00

Instrument :
BNA_P
ClientSampleId :
DFTPP

DDT Breakdown

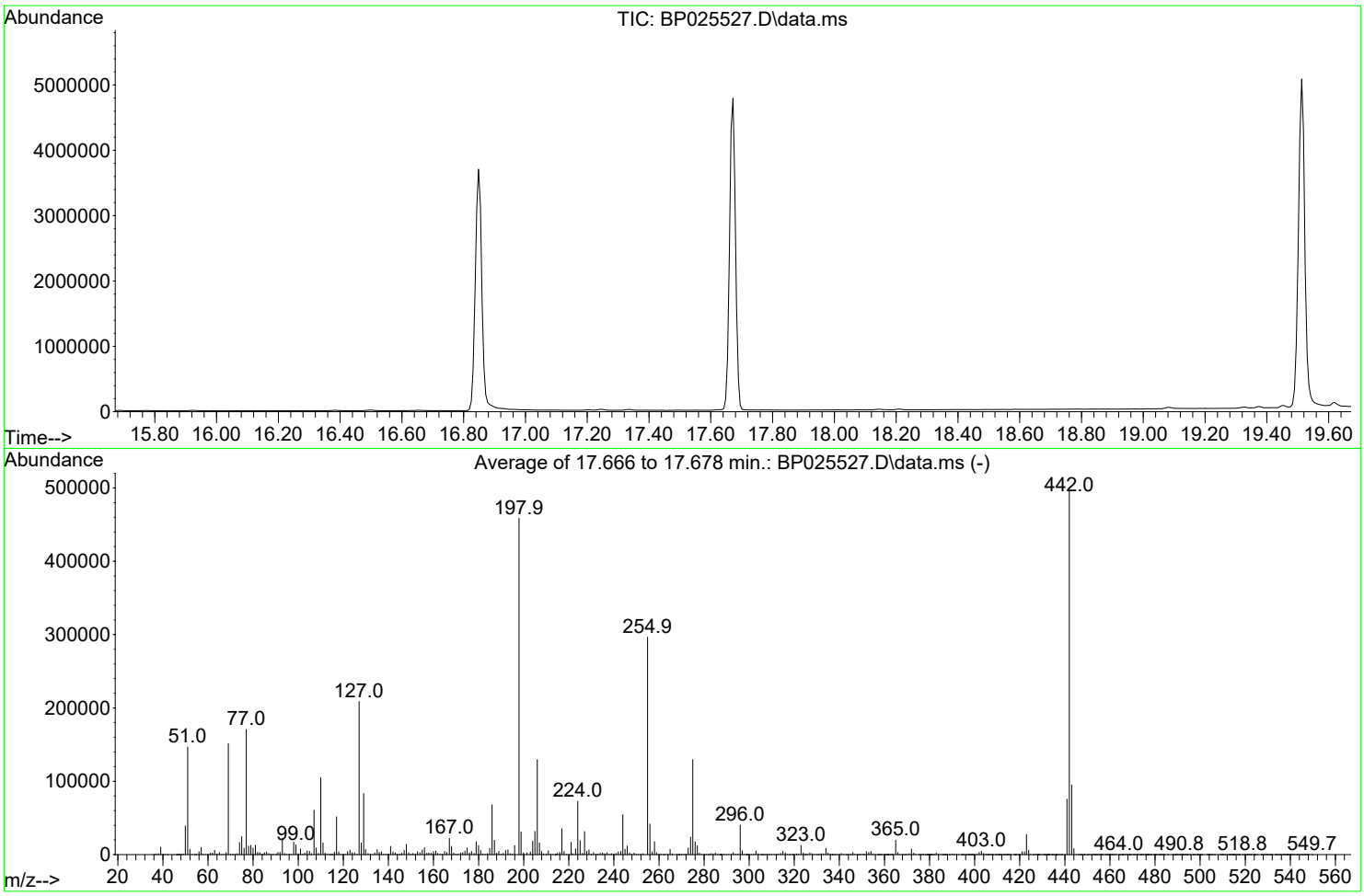
Date	Instrument Name	DFTPP Data File
8/20/2025	BNA_P	BP025511.D
Compound Name	**Response**	**Retention Time**
DDT	1084945	20.825
DDD	23682	20.366
DDE	2473	19.836
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
26155	1111100	2.35

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025527.D
Acq On : 21 Aug 2025 06:01
Operator : CG/JU
Sample : DFTPP
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Aug 14 18:14:31 2025



AutoFind: Scans 2504, 2505, 2506; Background Corrected with Scan 2495

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
68	69	0.00	2	1.9	2866	PASS
69	69	100	100	100.0	151600	PASS
70	69	0.00	2	0.5	829	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	458631	PASS
199	198	5	9	6.7	30834	PASS
365	198	1	100	4.3	19700	PASS
441	443	0.01	150	79.6	75722	PASS
442	442	100	100	100.0	495296	PASS
443	442	15	24	19.2	95153	PASS

Instrument :
BNA_P
ClientSampleId :
DFTPP

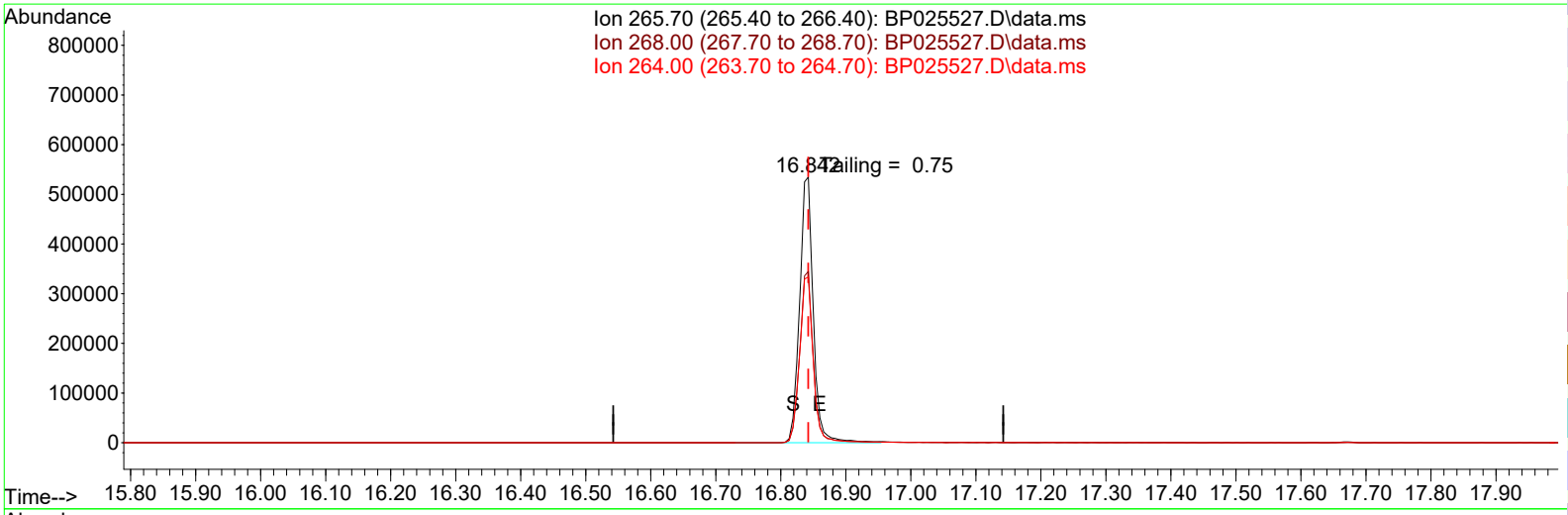
DDT Breakdown

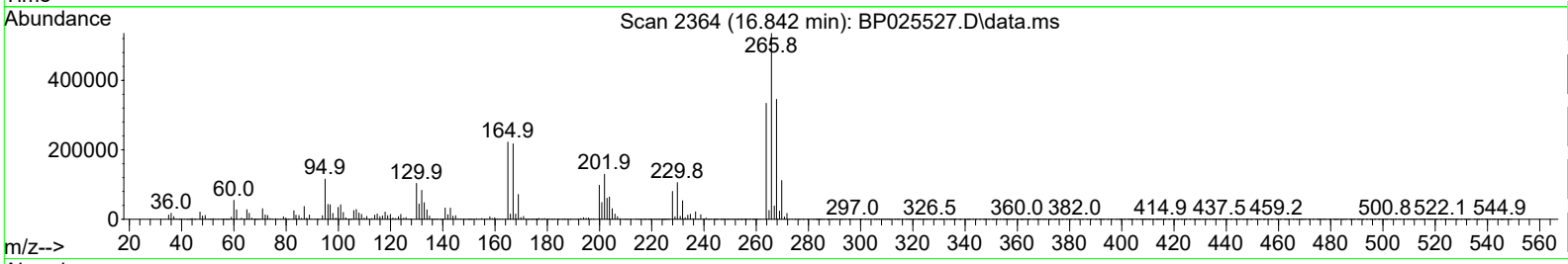
Date	Instrument Name	DFTPP Data File
8/20/2025	BNA_P	BP025527.D
Compound Name	**Response**	**Retention Time**
DDT	2180101	20.813
DDD	63141	20.348
DDE	5921	19.825
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
69062	2249163	3.07

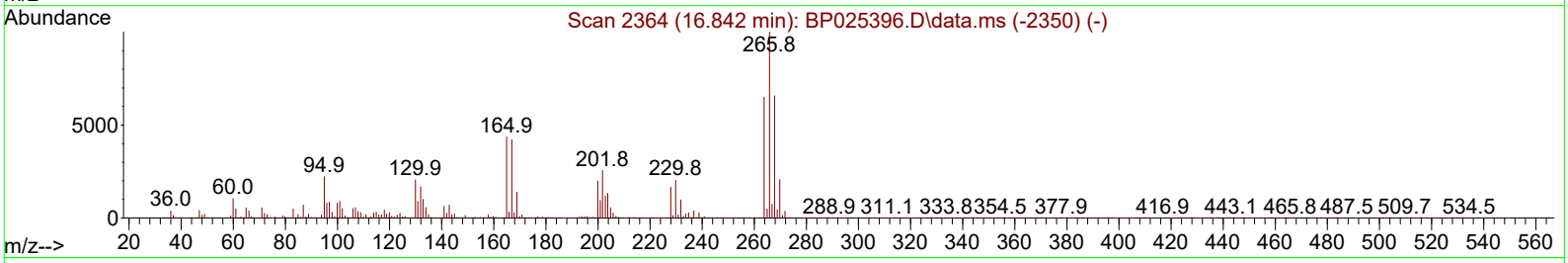
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025527.D
Acq On : 21 Aug 2025 05:20
Operator : CG/JU
Sample : DFTPP
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
DFTPP

Quant Time: Aug 21 06:28:41 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration







TIC: BP025527.D\data.ms

(70) Pentachlorophenol (C)

16.842min (+ 0.000) 14024.53 ng

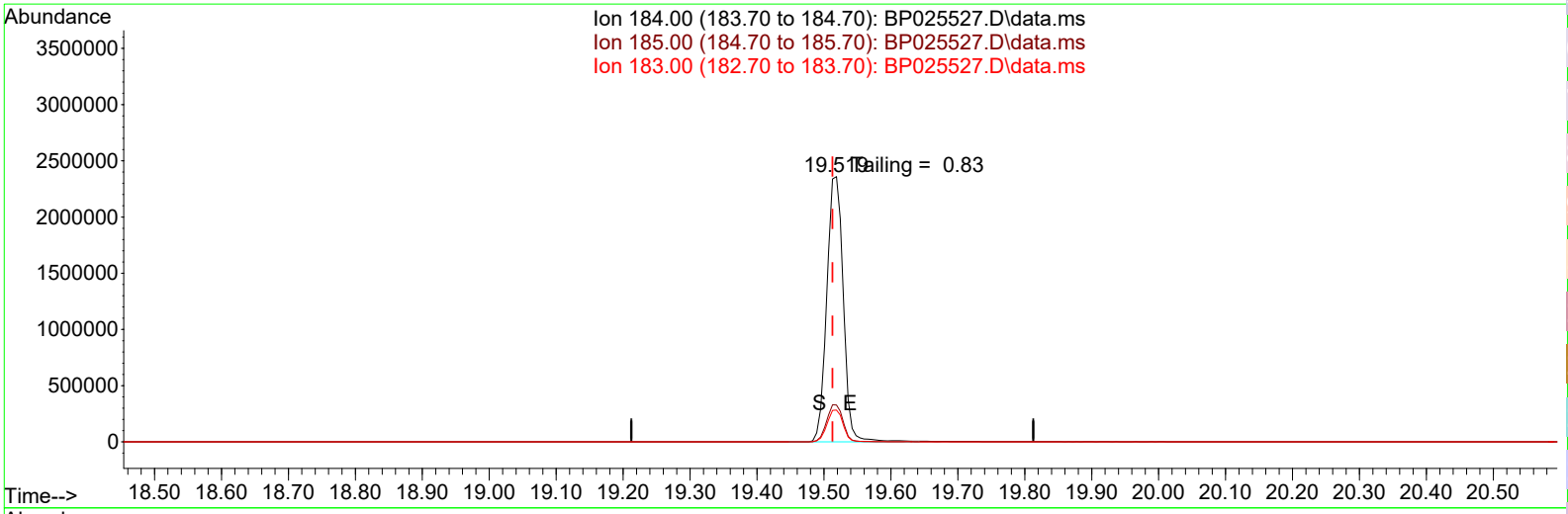
response 784998

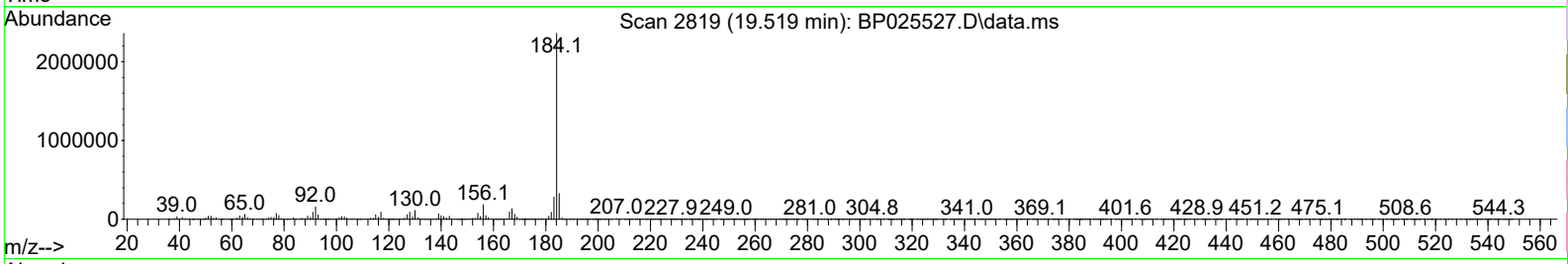
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	65.80	64.48
264.00	65.00	62.40
0.00	0.00	0.00

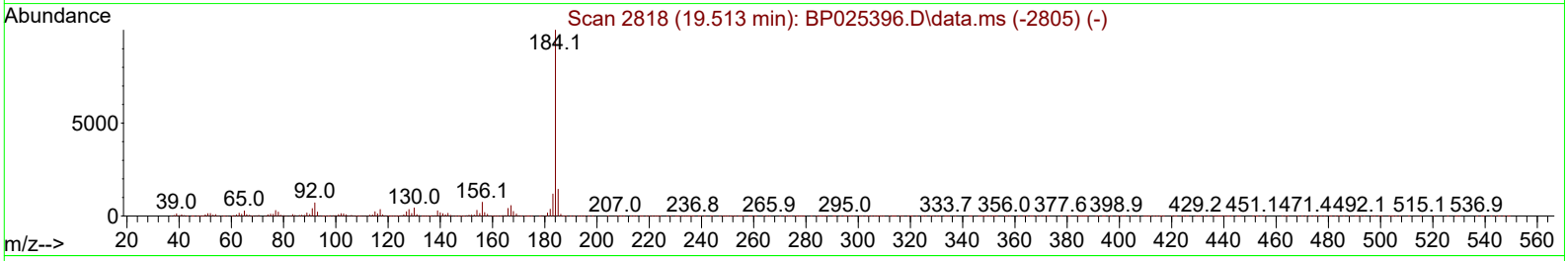
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025527.D
Acq On : 21 Aug 2025 05:20
Operator : CG/JU
Sample : DFTPP
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
DFTPP

Quant Time: Aug 21 06:28:41 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration







TIC: BP025527.D\data.ms

(77) Benzidine

19.519min (+ 0.006) 13689.91 ng

response 4033404

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.40	13.90
183.00	11.80	11.97
0.00	0.00	0.00

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

Report of Analysis

Client:	First Environment, Inc.			Date Collected:	
Project:	USACE018-44 DOD			Date Received:	
Client Sample ID:	PB169242BL			SDG No.:	Q2819
Lab Sample ID:	PB169242BL			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	100
Sample Wt/Vol:	30.01	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOC-TCL BNA -20
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP025488.D	1	08/14/25 08:40	08/20/25 00:27	PB169242

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
100-52-7	Benzaldehyde	270	U	160	270	330	ug/Kg
108-95-2	Phenol	130	U	22.1	130	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	130	U	24.3	130	170	ug/Kg
95-57-8	2-Chlorophenol	130	U	24.4	130	170	ug/Kg
95-48-7	2-Methylphenol	130	U	29.9	130	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	130	U	37.5	130	170	ug/Kg
98-86-2	Acetophenone	130	U	29.5	130	170	ug/Kg
65794-96-9	3+4-Methylphenols	270	U	41.1	270	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	80.0	U	47.4	80.0	80.0	ug/Kg
67-72-1	Hexachloroethane	130	U	17.6	130	170	ug/Kg
98-95-3	Nitrobenzene	130	U	18.3	130	170	ug/Kg
78-59-1	Isophorone	130	U	32.8	130	170	ug/Kg
88-75-5	2-Nitrophenol	130	U	58.2	130	170	ug/Kg
105-67-9	2,4-Dimethylphenol	130	U	64.8	130	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	130	U	30.8	130	170	ug/Kg
120-83-2	2,4-Dichlorophenol	130	U	28.3	130	170	ug/Kg
91-20-3	Naphthalene	130	U	22.7	130	170	ug/Kg
106-47-8	4-Chloroaniline	130	U	35.4	130	170	ug/Kg
87-68-3	Hexachlorobutadiene	130	U	25.3	130	170	ug/Kg
105-60-2	Caprolactam	270	U	52.1	270	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	130	U	28.7	130	170	ug/Kg
91-57-6	2-Methylnaphthalene	130	U	25.6	130	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	270	U	120	270	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	130	U	19.8	130	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	130	U	29.1	130	170	ug/Kg
92-52-4	1,1-Biphenyl	130	U	21.8	130	170	ug/Kg
91-58-7	2-Chloronaphthalene	130	U	22.5	130	170	ug/Kg
88-74-4	2-Nitroaniline	130	U	48.1	130	170	ug/Kg
131-11-3	Dimethylphthalate	130	U	27.1	130	170	ug/Kg

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Fax : 908 789 8922

Report of Analysis

Client:	First Environment, Inc.			Date Collected:	
Project:	USACE018-44 DOD			Date Received:	
Client Sample ID:	PB169242BL			SDG No.:	Q2819
Lab Sample ID:	PB169242BL			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	100
Sample Wt/Vol:	30.01	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOC-TCL BNA -20
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP025488.D	1	08/14/25 08:40	08/20/25 00:27	PB169242

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	130	U	28.9	130	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	130	U	33.6	130	170	ug/Kg
99-09-2	3-Nitroaniline	130	U	46.0	130	170	ug/Kg
83-32-9	Acenaphthene	130	U	21.3	130	170	ug/Kg
51-28-5	2,4-Dinitrophenol	270	U	230	270	330	ug/Kg
100-02-7	4-Nitrophenol	270	U	110	270	330	ug/Kg
132-64-9	Dibenzofuran	130	U	22.7	130	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	130	U	50.1	130	170	ug/Kg
84-66-2	Diethylphthalate	130	U	28.3	130	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	130	U	26.7	130	170	ug/Kg
86-73-7	Fluorene	130	U	25.3	130	170	ug/Kg
100-01-6	4-Nitroaniline	130	U	64.2	130	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	270	U	100	270	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	130	U	32.9	130	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	130	U	27.8	130	170	ug/Kg
118-74-1	Hexachlorobenzene	130	U	25.3	130	170	ug/Kg
1912-24-9	Atrazine	130	U	34.0	130	170	ug/Kg
87-86-5	Pentachlorophenol	270	U	51.3	270	330	ug/Kg
85-01-8	Phenanthrene	130	U	20.9	130	170	ug/Kg
120-12-7	Anthracene	130	U	33.3	130	170	ug/Kg
86-74-8	Carbazole	130	U	31.2	130	170	ug/Kg
84-74-2	Di-n-butylphthalate	130	U	47.9	130	170	ug/Kg
206-44-0	Fluoranthene	130	U	30.0	130	170	ug/Kg
129-00-0	Pyrene	130	U	36.0	130	170	ug/Kg
85-68-7	Butylbenzylphthalate	130	U	71.4	130	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	270	U	36.7	270	330	ug/Kg
56-55-3	Benzo(a)anthracene	130	U	23.0	130	170	ug/Kg
218-01-9	Chrysene	130	U	19.9	130	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	130	U	59.2	130	170	ug/Kg
117-84-0	Di-n-octyl phthalate	270	U	86.8	270	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	130	U	19.0	130	170	ug/Kg

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Report of Analysis

Client:	First Environment, Inc.			Date Collected:	
Project:	USACE018-44 DOD			Date Received:	
Client Sample ID:	PB169242BL			SDG No.:	Q2819
Lab Sample ID:	PB169242BL			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	100
Sample Wt/Vol:	30.01	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOC-TCL BNA -20
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP025488.D	1	08/14/25 08:40	08/20/25 00:27	PB169242

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	130	U	22.4	130	170	ug/Kg
50-32-8	Benzo(a)pyrene	130	U	29.5	130	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	130	U	29.1	130	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	130	U	27.4	130	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	130	U	25.7	130	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	130	U	25.6	130	170	ug/Kg
123-91-1	1,4-Dioxane	130	U	45.2	130	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	130	U	27.4	130	170	ug/Kg
SURROGATES							
367-12-4	2-Fluorophenol	139		35 - 115		92%	SPK: 150
13127-88-3	Phenol-d6	132		34 - 127		88%	SPK: 150
4165-60-0	Nitrobenzene-d5	88.9		37 - 122		89%	SPK: 100
321-60-8	2-Fluorobiphenyl	82.6		44 - 115		83%	SPK: 100
118-79-6	2,4,6-Tribromophenol	145		39 - 132		97%	SPK: 150
1718-51-0	Terphenyl-d14	83.3		54 - 127		83%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	158000	7.79				
1146-65-2	Naphthalene-d8	605000	10.56				
15067-26-2	Acenaphthene-d10	392000	14.395				
1517-22-2	Phenanthrene-d10	838000	17.189				
1719-03-5	Chrysene-d12	919000	21.63				
1520-96-3	Perylene-d12	1040000	25.001				
TENTATIVE IDENTIFIED COMPOUNDS							
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	300	A			4.94	ug/Kg
000110-34-9	Hexadecanoic acid, 2-methylpropyl	97.0	J			19.4	ug/Kg
000111-06-8	Hexadecanoic acid, butyl ester	180	J			19.6	ug/Kg
000123-95-5	Octadecanoic acid, butyl ester	140	J			20.7	ug/Kg

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Report of Analysis

Client:	First Environment, Inc.			Date Collected:	
Project:	USACE018-44 DOD			Date Received:	
Client Sample ID:	PB169242BL			SDG No.:	Q2819
Lab Sample ID:	PB169242BL			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	100
Sample Wt/Vol:	30.01	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOC-TCL BNA -20
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP025488.D	1	08/14/25 08:40	08/20/25 00:27	PB169242

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

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

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081925\
Data File : BP025488.D
Acq On : 20 Aug 2025 00:27
Operator : CG/JU
Sample : PB169242BL
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB169242BL

Quant Time: Aug 20 02:27:19 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration

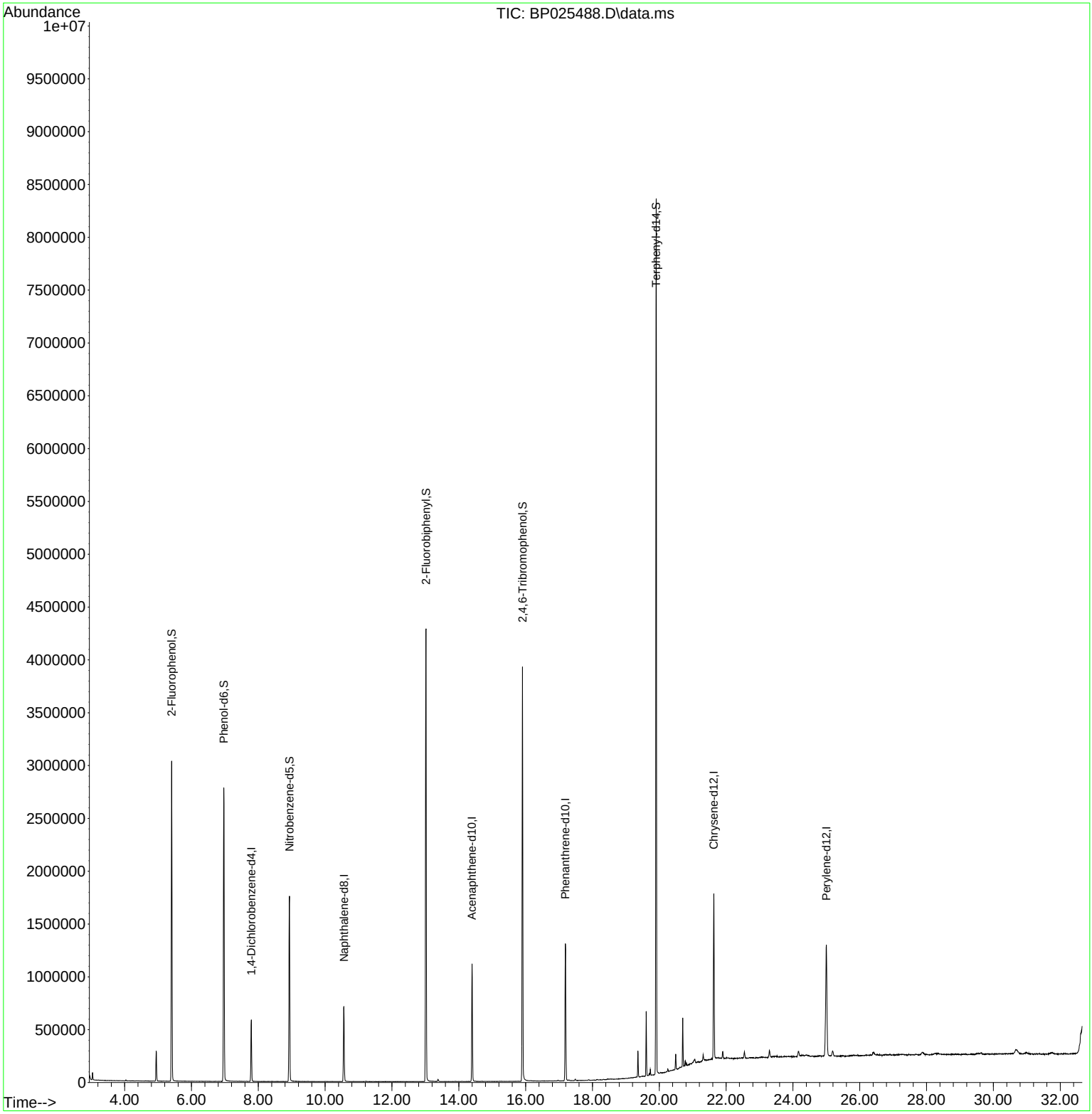
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.790	152	158125	20.000	ng	0.00
21) Naphthalene-d8	10.560	136	604850	20.000	ng	0.00
39) Acenaphthene-d10	14.395	164	392339	20.000	ng	-0.01
64) Phenanthrene-d10	17.189	188	837745	20.000	ng	-0.01
76) Chrysene-d12	21.630	240	919387	20.000	ng	-0.02
86) Perylene-d12	25.001	264	1036555	20.000	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.408	112	1319499	138.580	ng	0.00
7) Phenol-d6	6.966	99	1613671	132.187	ng	0.00
23) Nitrobenzene-d5	8.931	82	1062397	88.852	ng	0.00
42) 2,4,6-Tribromophenol	15.907	330	767171	145.272	ng	0.00
45) 2-Fluorobiphenyl	13.019	172	2369901	82.554	ng	0.00
79) Terphenyl-d14	19.907	244	4185704	83.295	ng	-0.01
Target Compounds						Qvalue

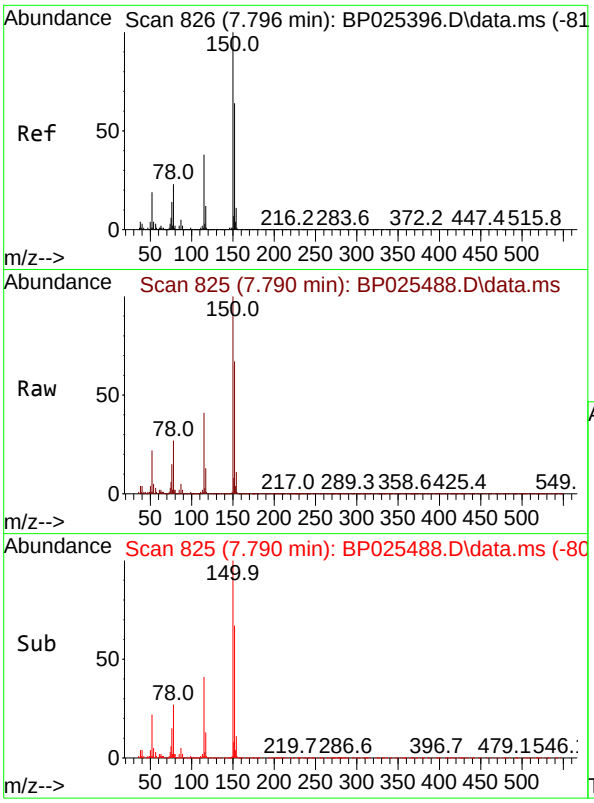
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081925\
Data File : BP025488.D
Acq On : 20 Aug 2025 00:27
Operator : CG/JU
Sample : PB169242BL
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB169242BL

Quant Time: Aug 20 02:27:19 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration



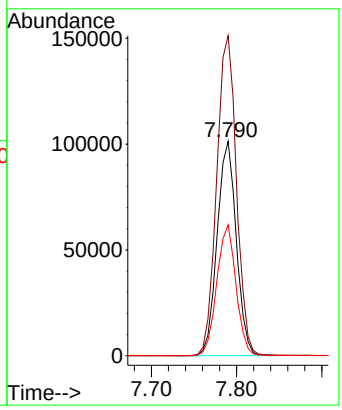


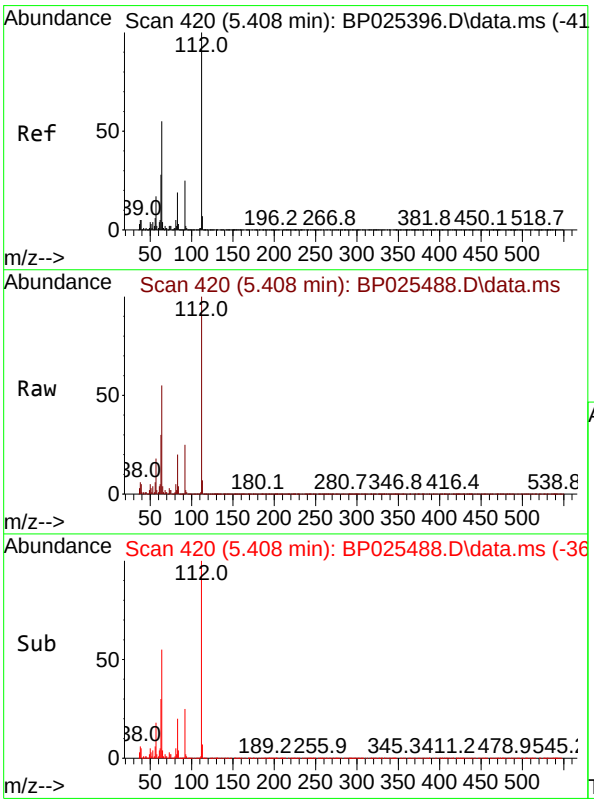
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.790 min Scan# 8
Delta R.T. -0.006 min
Lab File: BP025488.D
Acq: 20 Aug 2025 00:27

Instrument :
BNA_P
ClientSampleId :
PB169242BL

Tgt Ion:152 Resp: 158125

Ion	Ratio	Lower	Upper
152	100		
150	149.4	125.9	188.9
115	61.1	48.5	72.7

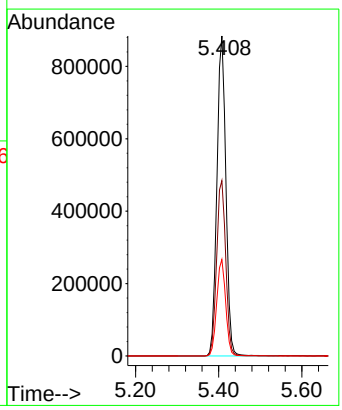


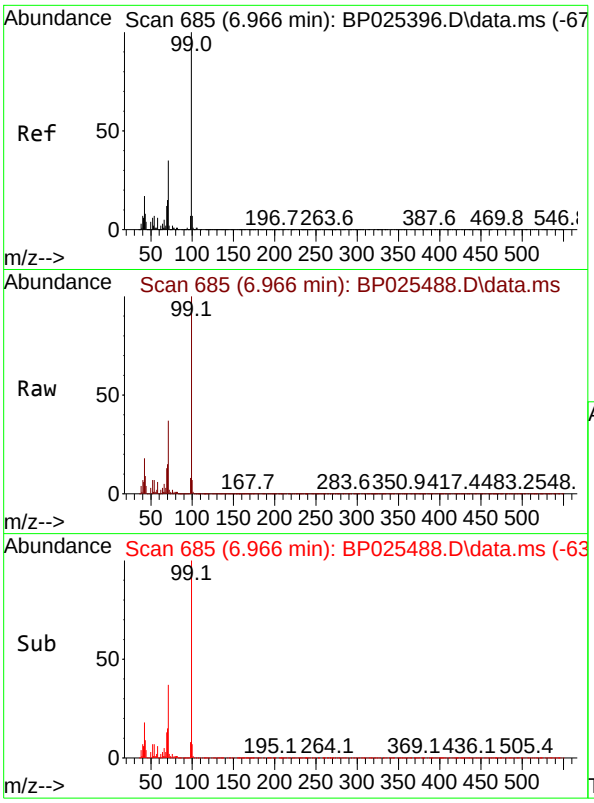


#5
2-Fluorophenol
Concen: 138.580 ng
RT: 5.408 min Scan# 420
Delta R.T. 0.000 min
Lab File: BP025488.D
Acq: 20 Aug 2025 00:27

Tgt Ion:112 Resp: 1319499

Ion	Ratio	Lower	Upper
112	100		
64	54.8	43.8	65.8
63	30.2	22.7	34.1



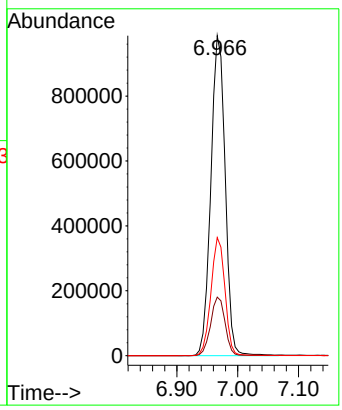


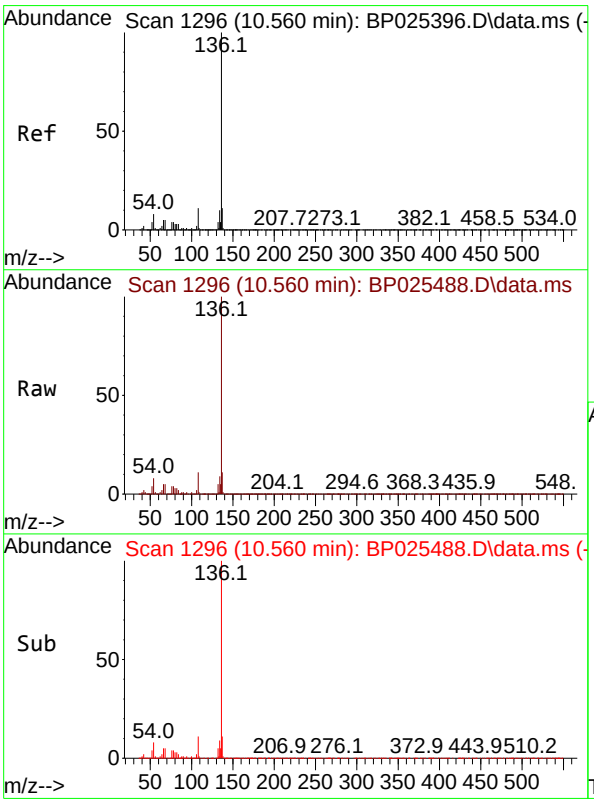
#7
Phenol-d6
Concen: 132.187 ng
RT: 6.966 min Scan# 6
Delta R.T. 0.000 min
Lab File: BP025488.D
Acq: 20 Aug 2025 00:27

Instrument :
BNA_P
ClientSampleId :
PB169242BL

Tgt Ion: 99 Resp: 1613671

Ion	Ratio	Lower	Upper
99	100		
42	18.3	13.7	20.5
71	36.9	28.2	42.4

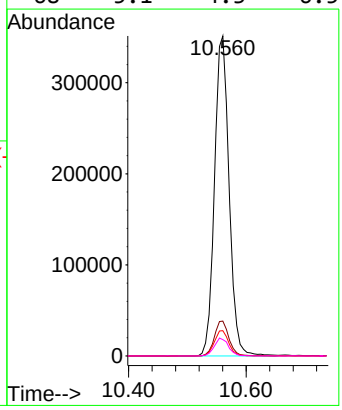


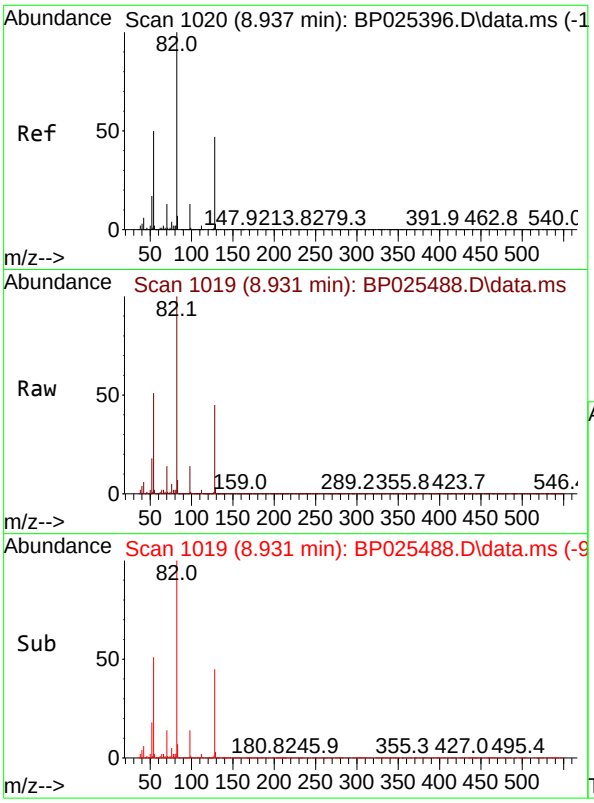


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.560 min Scan# 1296
Delta R.T. 0.000 min
Lab File: BP025488.D
Acq: 20 Aug 2025 00:27

Tgt Ion:136 Resp: 604850

Ion	Ratio	Lower	Upper
136	100		
137	10.9	9.2	13.8
54	8.3	6.0	9.0
68	5.1	4.3	6.5



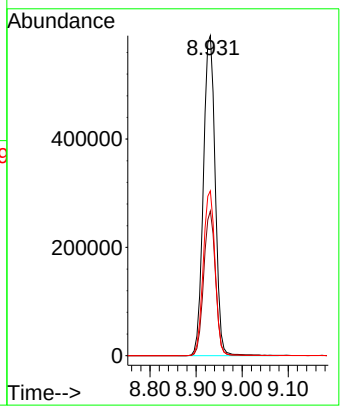


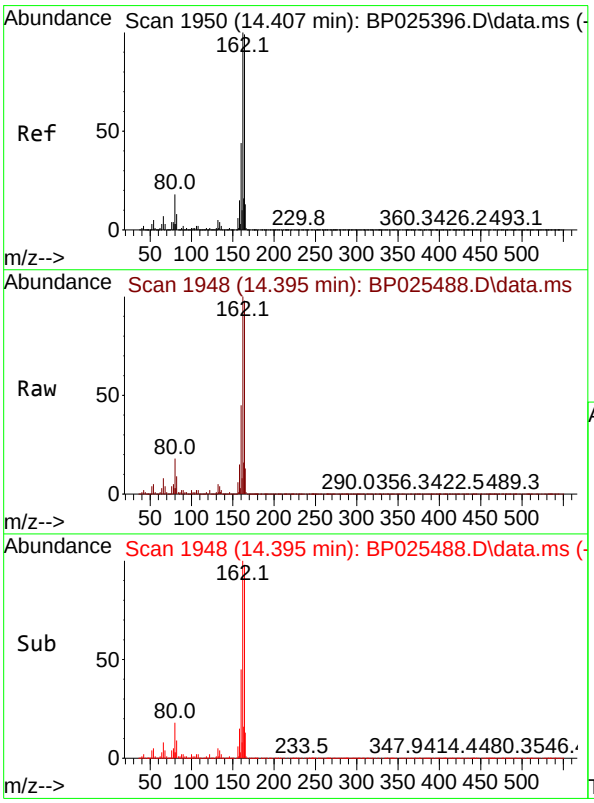
#23
Nitrobenzene-d5
Concen: 88.852 ng
RT: 8.931 min Scan# 1(
Delta R.T. -0.006 min
Lab File: BP025488.D
Acq: 20 Aug 2025 00:27

Instrument :
BNA_P
ClientSampleId :
PB169242BL

Tgt Ion: 82 Resp: 1062397

Ion	Ratio	Lower	Upper
82	100		
128	45.2	37.7	56.5
54	51.5	39.8	59.6

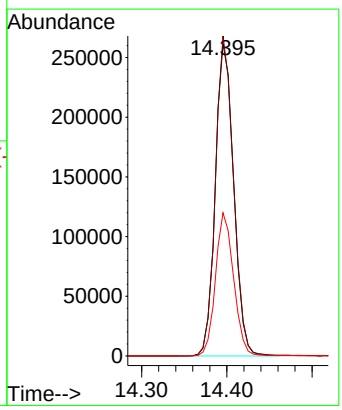


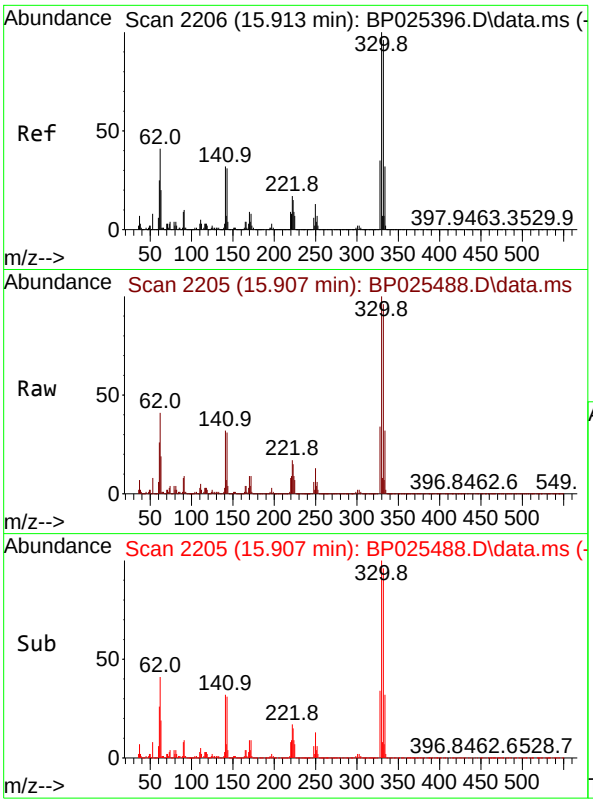


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.395 min Scan# 1948
Delta R.T. -0.012 min
Lab File: BP025488.D
Acq: 20 Aug 2025 00:27

Tgt Ion:164 Resp: 392339

Ion	Ratio	Lower	Upper
164	100		
162	102.4	81.0	121.6
160	45.8	35.4	53.2



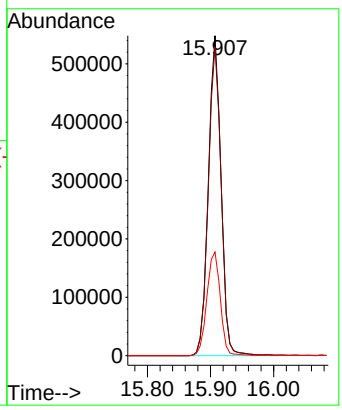


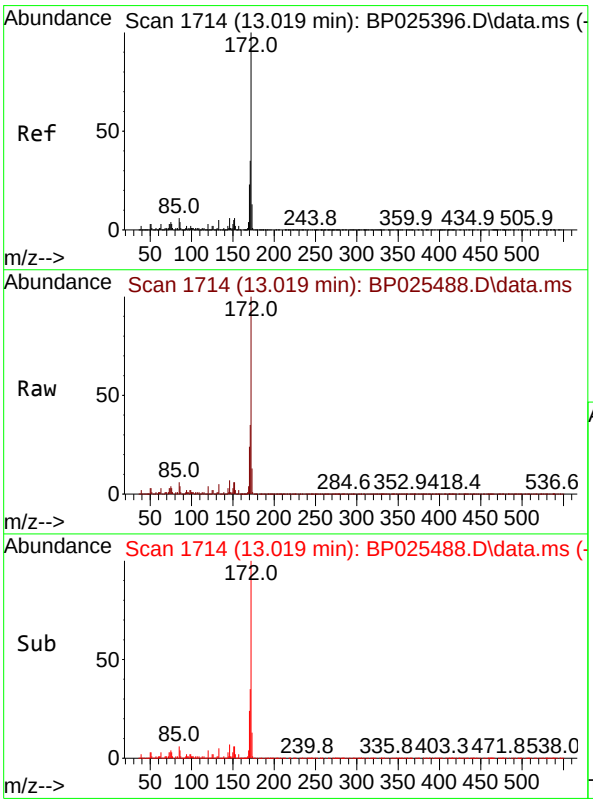
#42
2,4,6-Tribromophenol
Concen: 145.272 ng
RT: 15.907 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP025488.D
Acq: 20 Aug 2025 00:27

Instrument :
BNA_P
ClientSampleId :
PB169242BL

Tgt Ion:330 Resp: 767171

Ion	Ratio	Lower	Upper
330	100		
332	97.7	77.3	115.9
141	34.5	26.6	39.8

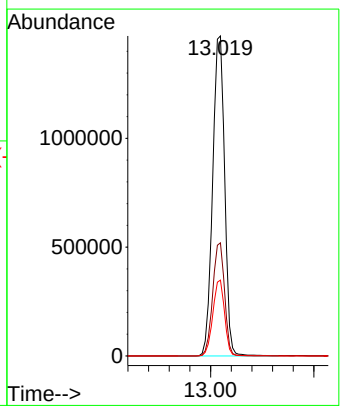


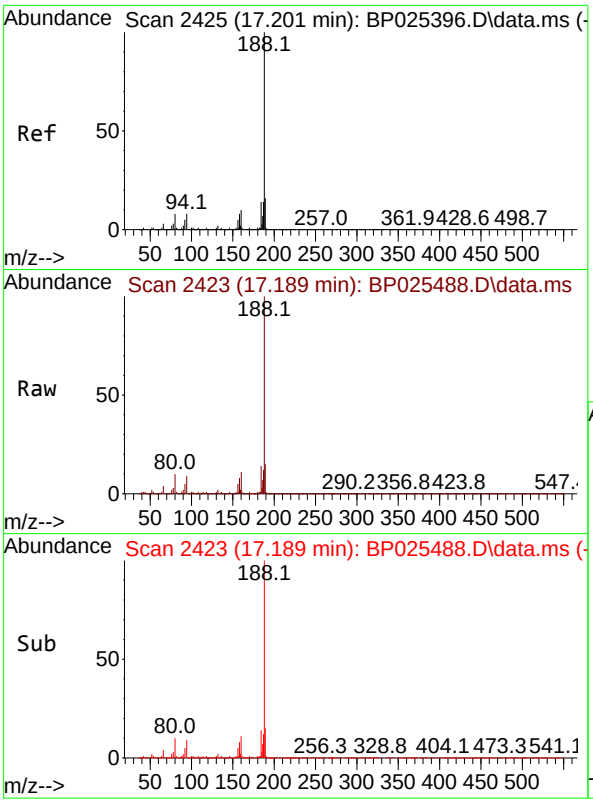


#45
2-Fluorobiphenyl
Concen: 82.554 ng
RT: 13.019 min Scan# 1714
Delta R.T. 0.000 min
Lab File: BP025488.D
Acq: 20 Aug 2025 00:27

Tgt Ion:172 Resp: 2369901

Ion	Ratio	Lower	Upper
172	100		
171	35.3	28.1	42.1
170	23.7	18.6	28.0



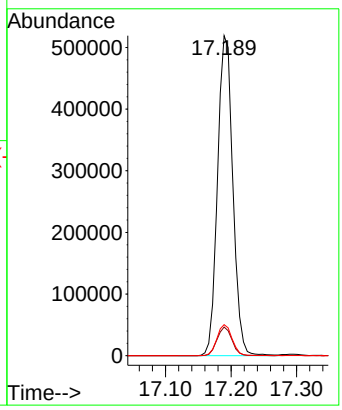


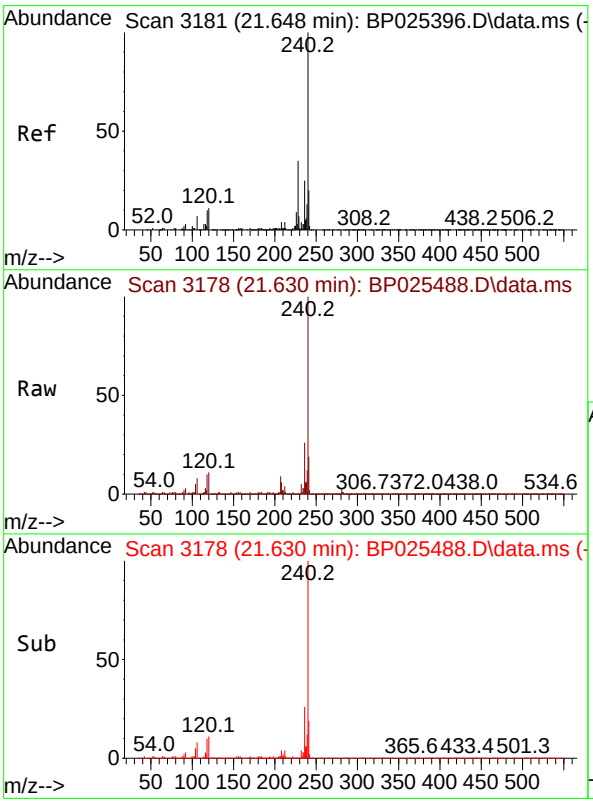
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.189 min Scan# 24
Delta R.T. -0.012 min
Lab File: BP025488.D
Acq: 20 Aug 2025 00:27

Instrument :
BNA_P
ClientSampleId :
PB169242BL

Tgt Ion:188 Resp: 837745

Ion	Ratio	Lower	Upper
188	100		
94	8.9	6.6	10.0
80	9.7	6.7	10.1

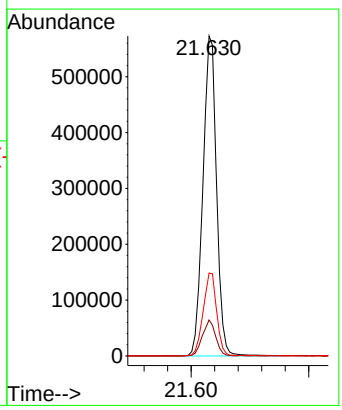


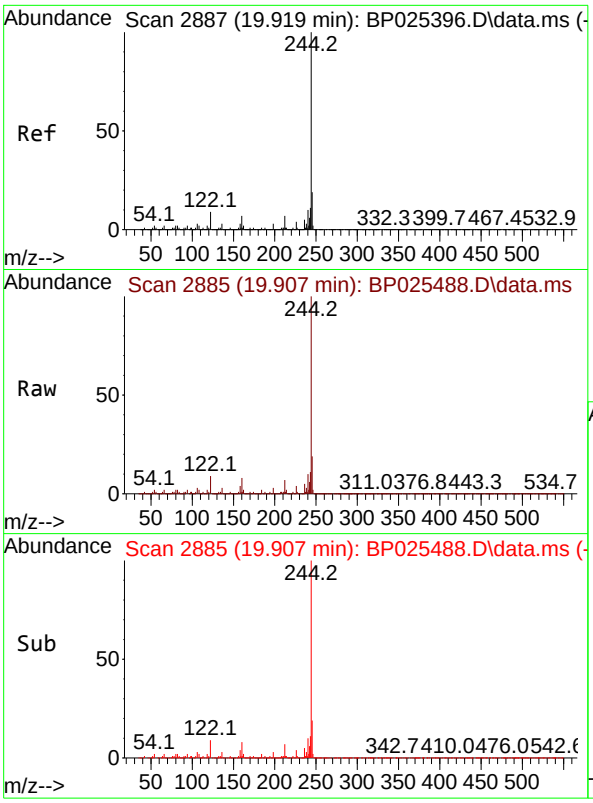


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.630 min Scan# 3178
Delta R.T. -0.017 min
Lab File: BP025488.D
Acq: 20 Aug 2025 00:27

Tgt Ion:240 Resp: 919387

Ion	Ratio	Lower	Upper
240	100		
120	11.3	8.9	13.3
236	25.9	19.8	29.8



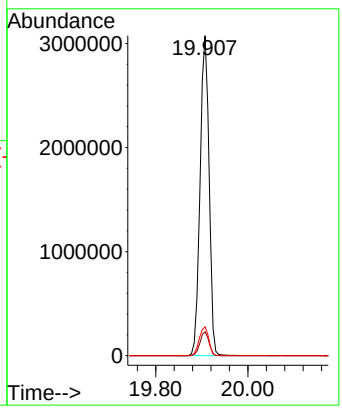


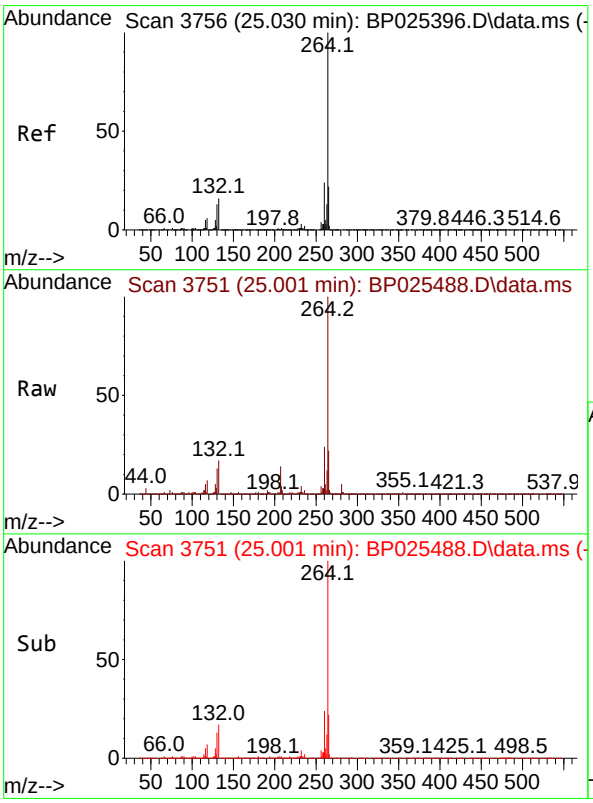
#79
Terphenyl-d14
Concen: 83.295 ng
RT: 19.907 min Scan# 2
Delta R.T. -0.012 min
Lab File: BP025488.D
Acq: 20 Aug 2025 00:27

Instrument :
BNA_P
ClientSampleId :
PB169242BL

Tgt Ion:244 Resp: 4185704

Ion	Ratio	Lower	Upper
244	100		
212	7.5	5.8	8.6
122	9.0	7.4	11.2

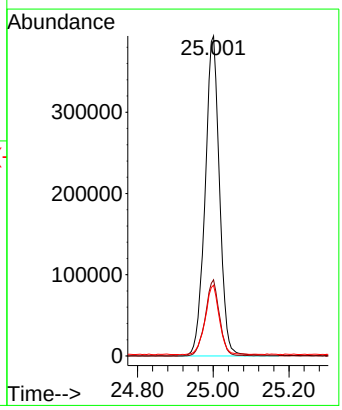




#86
Perylene-d12
Concen: 20.000 ng
RT: 25.001 min Scan# 3751
Delta R.T. -0.029 min
Lab File: BP025488.D
Acq: 20 Aug 2025 00:27

Tgt Ion:264 Resp: 1036555

Ion	Ratio	Lower	Upper
264	100		
260	23.8	19.3	28.9
265	22.1	17.4	26.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081925\
Data File : BP025488.D
Acq On : 20 Aug 2025 00:27
Operator : CG/JU
Sample : PB169242BL
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB169242BL

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

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

Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BP025488.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.943	335	341	350	rBV	284877	409791	3.60%	0.822%
2	5.408	413	420	431	rBV	3029668	4545029	39.96%	9.116%
3	6.966	677	685	702	rBV	2778785	4618755	40.60%	9.264%
4	7.790	818	825	832	rBV	582146	918577	8.08%	1.842%
5	8.931	1007	1019	1029	rBV	1755395	3146374	27.66%	6.311%
6	10.560	1288	1296	1312	rBV	710165	1226150	10.78%	2.459%
7	13.019	1705	1714	1732	rBV	4286138	6927261	60.90%	13.894%
8	14.395	1940	1948	1960	rBV	1114038	1677283	14.74%	3.364%
9	15.907	2197	2205	2224	rBV	3922418	5815330	51.12%	11.664%
10	17.189	2416	2423	2437	rBV2	1297299	2105930	18.51%	4.224%
11	19.360	2788	2792	2800	rVB	247074	305894	2.69%	0.614%
12	19.607	2830	2834	2839	rBV	610715	693253	6.09%	1.390%
13	19.907	2879	2885	2896	rBV	8284004	11375324	100.00%	22.816%
14	20.489	2980	2984	2990	rBV	147965	201872	1.77%	0.405%
15	20.701	3016	3020	3025	rBV	462952	543781	4.78%	1.091%
16	21.630	3172	3178	3189	rBV	1559764	2498140	21.96%	5.011%
17	25.001	3742	3751	3766	rVB	1050454	2708088	23.81%	5.432%
18	32.618	5042	5046	5047	rBV2	92878	139696	1.23%	0.280%

Sum of corrected areas: 49856528

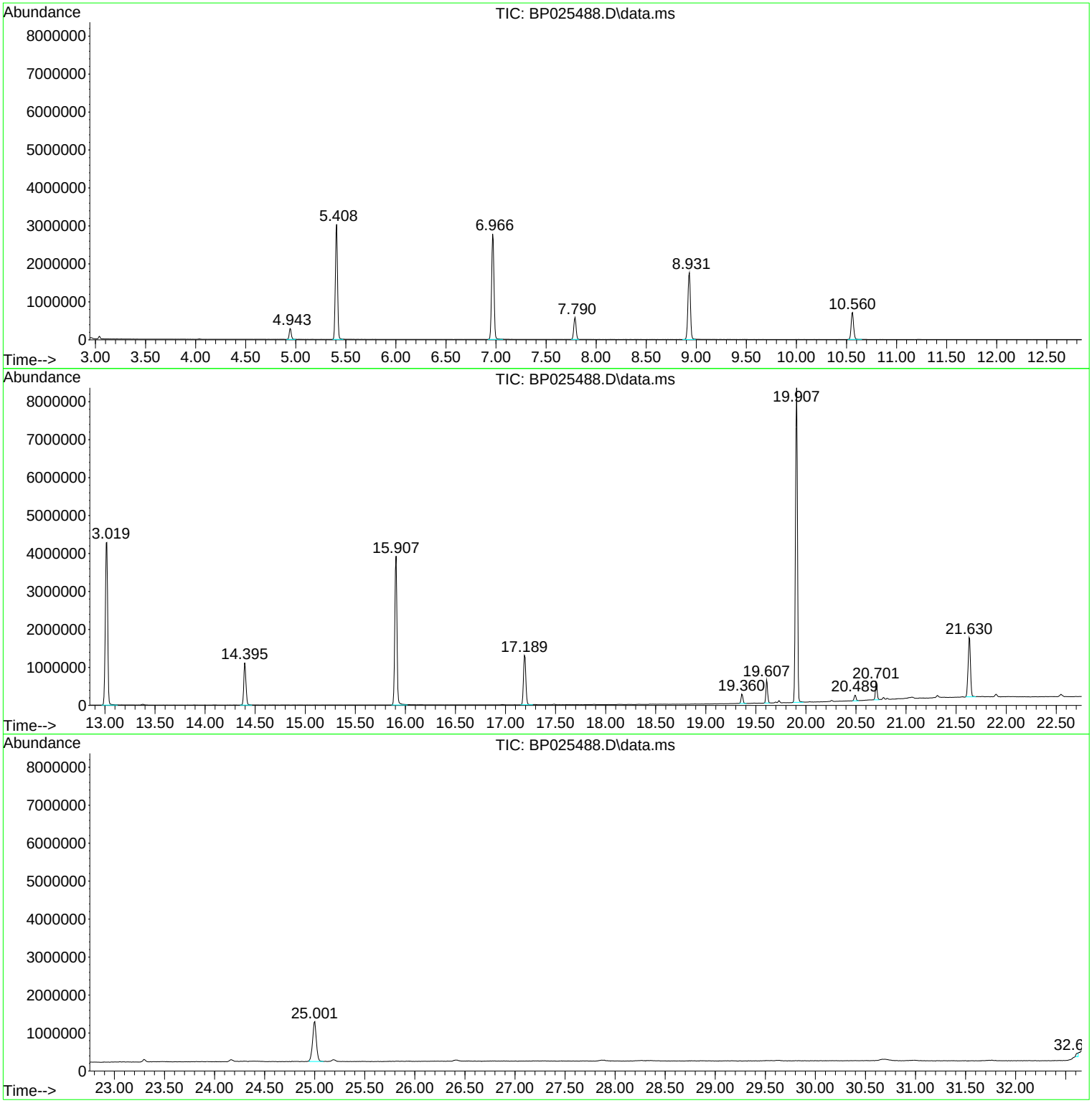
Sample Results: **BP025488.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081925\
Data File : BP025488.D
Acq On : 20 Aug 2025 00:27
Operator : CG/JU
Sample : PB169242BL
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB169242BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081925\
Data File : BP025488.D
Acq On : 20 Aug 2025 00:27
Operator : CG/JU
Sample : PB169242BL
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB169242BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

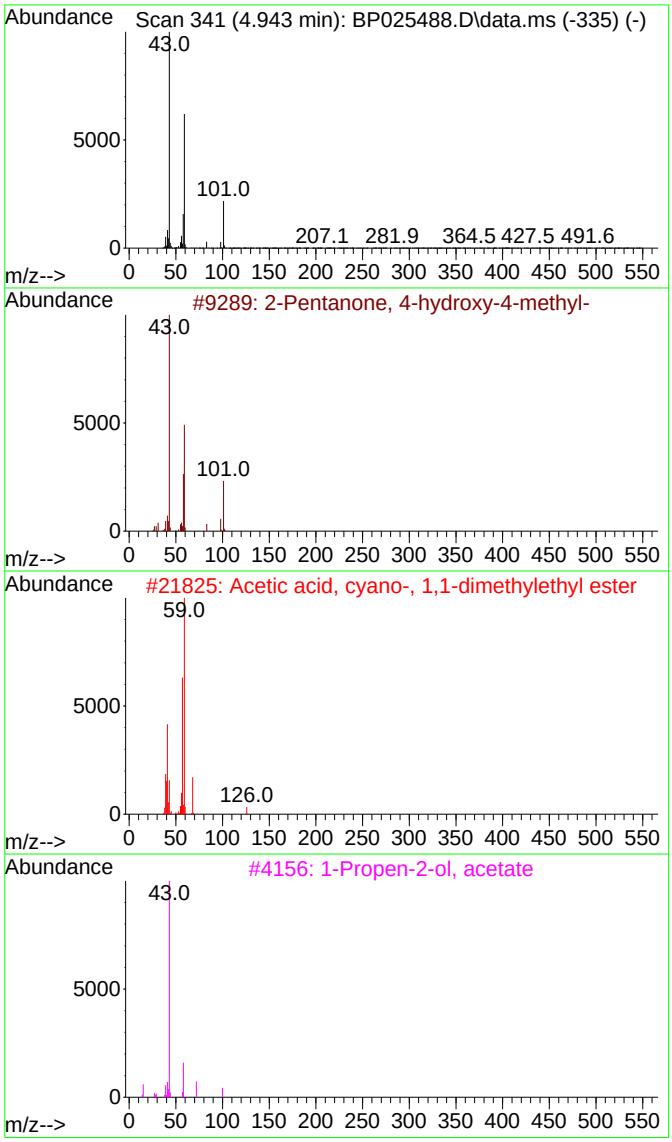
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

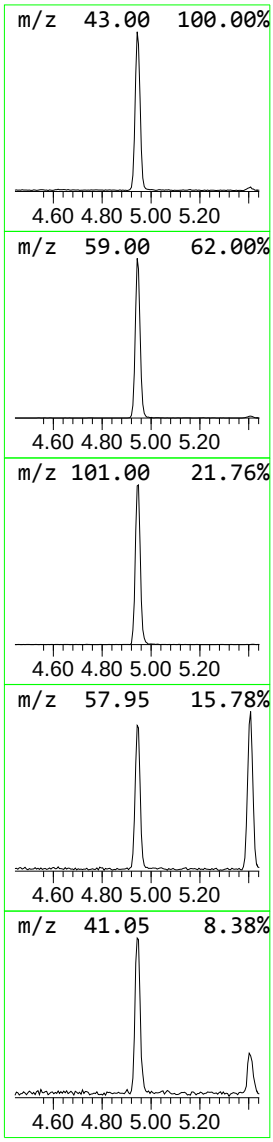
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.943	8.92 ng	409791	1,4-Dichlorobenzene-d4	7.790

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	72
2	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	23
3	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	10
4	Butane, 1-ethoxy-	102	C6H14O	000628-81-9	9
5	Morpholine, 4-methyl-	101	C5H11NO	000109-02-4	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081925\
Data File : BP025488.D
Acq On : 20 Aug 2025 00:27
Operator : CG/JU
Sample : PB169242BL
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB169242BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

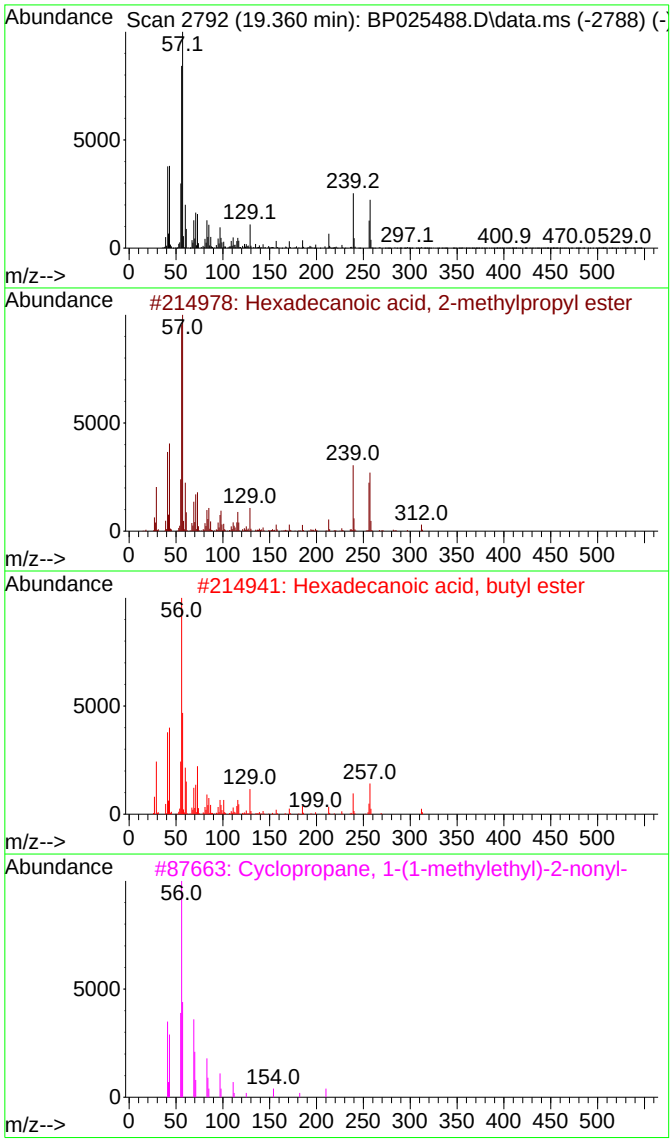
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

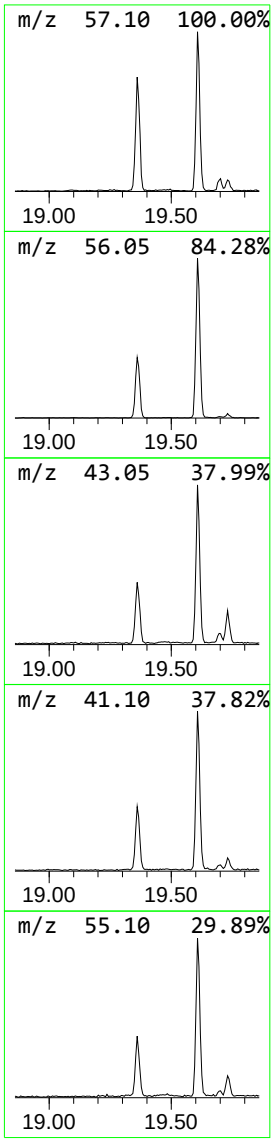
****

Peak Number 2 Hexadecanoic acid, 2-methyl... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.360	2.91 ng	305894	Phenanthrene-d10	17.189

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecanoic acid, 2-methylpropy...	312	C20H40O2	000110-34-9	90
2	Hexadecanoic acid, butyl ester	312	C20H40O2	000111-06-8	72
3	Cyclopropane, 1-(1-methylethyl)-...	210	C15H30	041977-39-3	35
4	Decane, 2,2,3-trimethyl-	184	C13H28	062338-09-4	35
5	Hexadecanoic acid, 1,1-dimethyle...	312	C20H40O2	031158-91-5	35





Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081925\
Data File : BP025488.D
Acq On : 20 Aug 2025 00:27
Operator : CG/JU
Sample : PB169242BL
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB169242BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

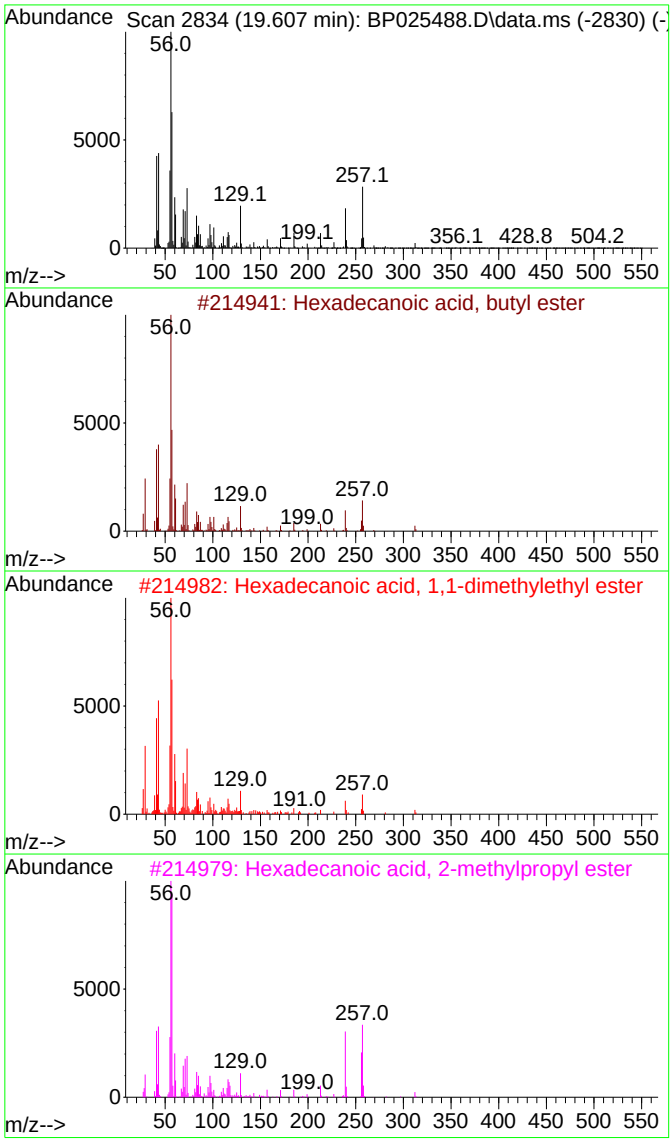
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

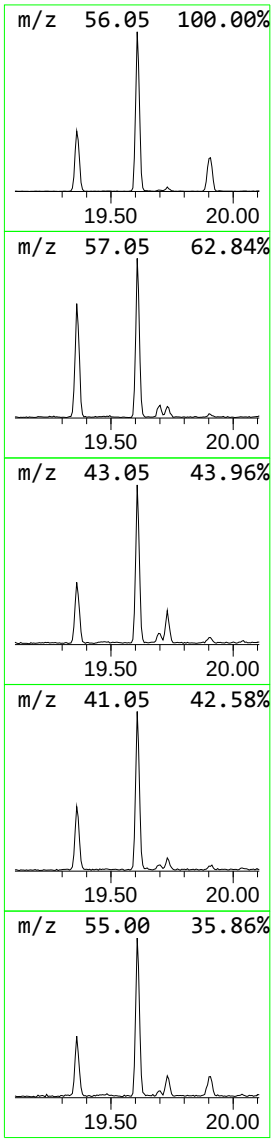
****

Peak Number 3 Hexadecanoic acid, butyl ester Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.607	5.55 ng	693253	Chrysene-d12	21.630

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecanoic acid, butyl ester	312	C20H40O2	000111-06-8	99
2	Hexadecanoic acid, 1,1-dimethyle...	312	C20H40O2	031158-91-5	96
3	Hexadecanoic acid, 2-methylpropy...	312	C20H40O2	000110-34-9	89
4	Cyclobutane, 1,1-dimethyl-2-octyl-	196	C14H28	062338-30-1	35
5	2-(Cyanomethoxy)tetrahydropyran	141	C7H11NO2	017521-49-2	35





Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081925\
Data File : BP025488.D
Acq On : 20 Aug 2025 00:27
Operator : CG/JU
Sample : PB169242BL
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB169242BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

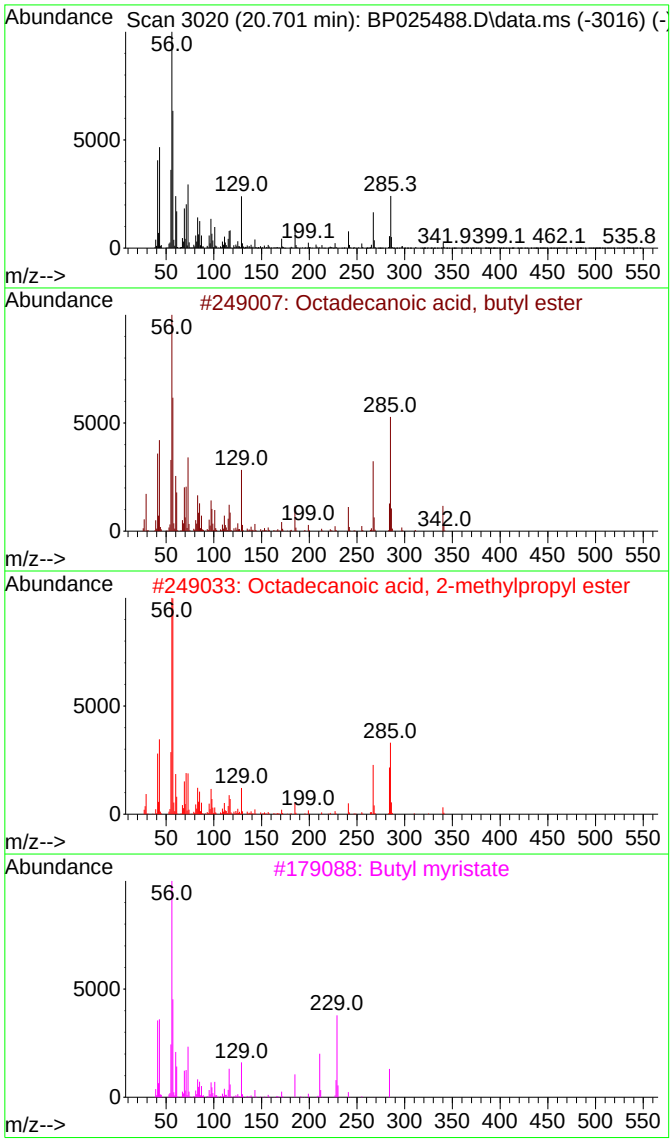
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

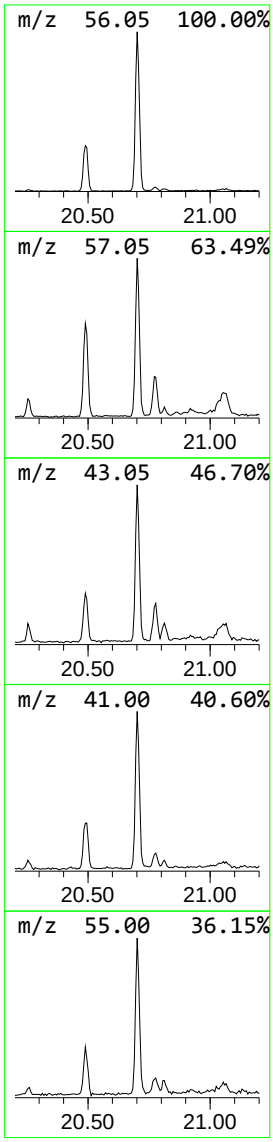
****

Peak Number 4 Octadecanoic acid, butyl ester Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.701	4.35 ng	543781	Chrysene-d12	21.630

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanoic acid, butyl ester	340	C22H44O2	000123-95-5	99
2	Octadecanoic acid, 2-methylpropy...	340	C22H44O2	000646-13-9	89
3	Butyl myristate	284	C18H36O2	000110-36-1	53
4	1-Hexene, 2,5-dimethyl-	112	C8H16	006975-92-4	27
5	3-Bromopropyl isocyanate	163	C4H6BrNO	056017-72-2	27





Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081925\
Data File : BP025488.D
Acq On : 20 Aug 2025 00:27
Operator : CG/JU
Sample : PB169242BL
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB169242BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
2-Pentanone, 4-...	4.943	8.9	ng	409791	1	7.790	918577	20.0
Hexadecanoic ac...	19.360	2.9	ng	305894	4	17.189	2105930	20.0
Hexadecanoic ac...	19.607	5.5	ng	693253	5	21.630	2498140	20.0
Octadecanoic ac...	20.701	4.3	ng	543781	5	21.630	2498140	20.0

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Report of Analysis

Client:	First Environment, Inc.	Date Collected:	
Project:	USACE018-44 DOD	Date Received:	
Client Sample ID:	PB169259BL	SDG No.:	Q2819
Lab Sample ID:	PB169259BL	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP025513.D	1	08/15/25 08:25	08/20/25 19:08	PB169259

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
100-52-7	Benzaldehyde	270	U	160	270	330	ug/Kg
108-95-2	Phenol	130	U	22.1	130	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	130	U	24.3	130	170	ug/Kg
95-57-8	2-Chlorophenol	130	U	24.4	130	170	ug/Kg
95-48-7	2-Methylphenol	130	U	29.9	130	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	130	U	37.5	130	170	ug/Kg
98-86-2	Acetophenone	130	U	29.5	130	170	ug/Kg
65794-96-9	3+4-Methylphenols	270	U	41.1	270	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	79.9	U	47.4	79.9	79.9	ug/Kg
67-72-1	Hexachloroethane	130	U	17.6	130	170	ug/Kg
98-95-3	Nitrobenzene	130	U	18.3	130	170	ug/Kg
78-59-1	Isophorone	130	U	32.8	130	170	ug/Kg
88-75-5	2-Nitrophenol	130	U	58.1	130	170	ug/Kg
105-67-9	2,4-Dimethylphenol	130	U	64.7	130	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	130	U	30.8	130	170	ug/Kg
120-83-2	2,4-Dichlorophenol	130	U	28.3	130	170	ug/Kg
91-20-3	Naphthalene	130	U	22.7	130	170	ug/Kg
106-47-8	4-Chloroaniline	130	U	35.4	130	170	ug/Kg
87-68-3	Hexachlorobutadiene	130	U	25.3	130	170	ug/Kg
105-60-2	Caprolactam	270	U	52.0	270	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	130	U	28.7	130	170	ug/Kg
91-57-6	2-Methylnaphthalene	130	U	25.6	130	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	270	U	120	270	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	130	U	19.8	130	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	130	U	29.1	130	170	ug/Kg
92-52-4	1,1-Biphenyl	130	U	21.8	130	170	ug/Kg
91-58-7	2-Chloronaphthalene	130	U	22.5	130	170	ug/Kg
88-74-4	2-Nitroaniline	130	U	48.1	130	170	ug/Kg
131-11-3	Dimethylphthalate	130	U	27.1	130	170	ug/Kg

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Report of Analysis

Client:	First Environment, Inc.	Date Collected:	
Project:	USACE018-44 DOD	Date Received:	
Client Sample ID:	PB169259BL	SDG No.:	Q2819
Lab Sample ID:	PB169259BL	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP025513.D	1	08/15/25 08:25	08/20/25 19:08	PB169259

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	130	U	28.9	130	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	130	U	33.6	130	170	ug/Kg
99-09-2	3-Nitroaniline	130	U	46.0	130	170	ug/Kg
83-32-9	Acenaphthene	130	U	21.3	130	170	ug/Kg
51-28-5	2,4-Dinitrophenol	270	U	230	270	330	ug/Kg
100-02-7	4-Nitrophenol	270	U	110	270	330	ug/Kg
132-64-9	Dibenzofuran	130	U	22.7	130	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	130	U	50.0	130	170	ug/Kg
84-66-2	Diethylphthalate	130	U	28.3	130	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	130	U	26.7	130	170	ug/Kg
86-73-7	Fluorene	130	U	25.3	130	170	ug/Kg
100-01-6	4-Nitroaniline	130	U	64.1	130	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	270	U	100	270	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	130	U	32.9	130	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	130	U	27.8	130	170	ug/Kg
118-74-1	Hexachlorobenzene	130	U	25.3	130	170	ug/Kg
1912-24-9	Atrazine	130	U	34.0	130	170	ug/Kg
87-86-5	Pentachlorophenol	270	U	51.2	270	330	ug/Kg
85-01-8	Phenanthrene	130	U	20.9	130	170	ug/Kg
120-12-7	Anthracene	130	U	33.3	130	170	ug/Kg
86-74-8	Carbazole	130	U	31.2	130	170	ug/Kg
84-74-2	Di-n-butylphthalate	130	U	47.9	130	170	ug/Kg
206-44-0	Fluoranthene	130	U	30.0	130	170	ug/Kg
129-00-0	Pyrene	130	U	36.0	130	170	ug/Kg
85-68-7	Butylbenzylphthalate	130	U	71.3	130	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	270	U	36.7	270	330	ug/Kg
56-55-3	Benzo(a)anthracene	130	U	23.0	130	170	ug/Kg
218-01-9	Chrysene	130	U	19.9	130	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	130	U	59.1	130	170	ug/Kg
117-84-0	Di-n-octyl phthalate	270	U	86.7	270	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	130	U	19.0	130	170	ug/Kg

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Report of Analysis

Client:	First Environment, Inc.			Date Collected:	
Project:	USACE018-44 DOD			Date Received:	
Client Sample ID:	PB169259BL			SDG No.:	Q2819
Lab Sample ID:	PB169259BL			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	100
Sample Wt/Vol:	30.03	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOC-TCL BNA -20
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP025513.D	1	08/15/25 08:25	08/20/25 19:08	PB169259

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	130	U	22.4	130	170	ug/Kg
50-32-8	Benzo(a)pyrene	130	U	29.5	130	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	130	U	29.1	130	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	130	U	27.4	130	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	130	U	25.7	130	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	130	U	25.6	130	170	ug/Kg
123-91-1	1,4-Dioxane	130	U	45.2	130	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	130	U	27.4	130	170	ug/Kg
SURROGATES							
367-12-4	2-Fluorophenol	124		35 - 115		83%	SPK: 150
13127-88-3	Phenol-d6	117		34 - 127		78%	SPK: 150
4165-60-0	Nitrobenzene-d5	81.8		37 - 122		82%	SPK: 100
321-60-8	2-Fluorobiphenyl	79.6		44 - 115		80%	SPK: 100
118-79-6	2,4,6-Tribromophenol	123		39 - 132		82%	SPK: 150
1718-51-0	Terphenyl-d14	73.5		54 - 127		74%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	166000	7.784				
1146-65-2	Naphthalene-d8	605000	10.56				
15067-26-2	Acenaphthene-d10	359000	14.413				
1517-22-2	Phenanthrene-d10	696000	17.207				
1719-03-5	Chrysene-d12	803000	21.654				
1520-96-3	Perylene-d12	1000000	25.036				
TENTATIVE IDENTIFIED COMPOUNDS							
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	270	A			4.95	ug/Kg

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Report of Analysis

Client:	First Environment, Inc.			Date Collected:	
Project:	USACE018-44 DOD			Date Received:	
Client Sample ID:	PB169259BL			SDG No.:	Q2819
Lab Sample ID:	PB169259BL			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	100
Sample Wt/Vol:	30.03	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOC-TCL BNA -20
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP025513.D	1	08/15/25 08:25	08/20/25 19:08	PB169259

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

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

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025513.D
Acq On : 20 Aug 2025 19:08
Operator : CG/JU
Sample : PB169259BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB169259BL

Quant Time: Aug 21 01:36:35 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration

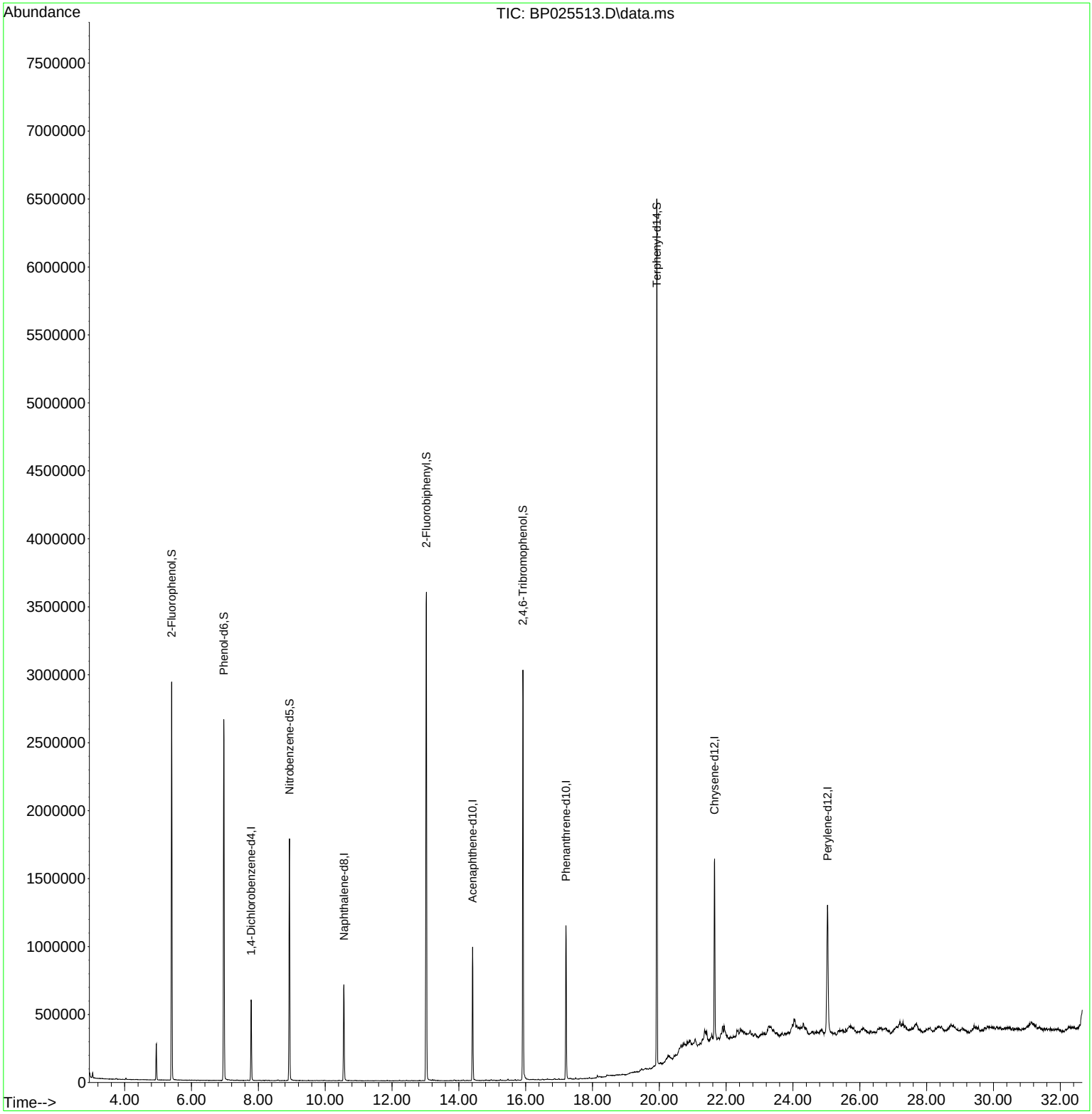
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.784	152	165727	20.000	ng	-0.01
21) Naphthalene-d8	10.560	136	604691	20.000	ng	0.00
39) Acenaphthene-d10	14.413	164	359341	20.000	ng	0.00
64) Phenanthrene-d10	17.207	188	696145	20.000	ng	0.00
76) Chrysene-d12	21.654	240	803107	20.000	ng	0.00
86) Perylene-d12	25.036	264	1000703	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.407	112	1239752	124.232	ng	0.00
7) Phenol-d6	6.966	99	1495688	116.902	ng	0.00
23) Nitrobenzene-d5	8.931	82	978215	81.833	ng	0.00
42) 2,4,6-Tribromophenol	15.919	330	595541	123.128	ng	0.00
45) 2-Fluorobiphenyl	13.030	172	2091778	79.557	ng	0.01
79) Terphenyl-d14	19.924	244	3226921	73.513	ng	0.00
Target Compounds						Qvalue

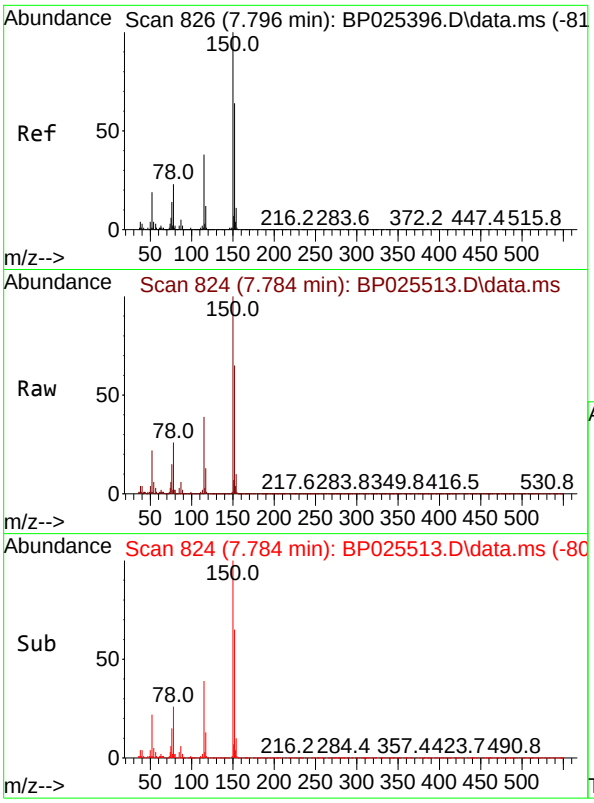
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025513.D
Acq On : 20 Aug 2025 19:08
Operator : CG/JU
Sample : PB169259BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB169259BL

Quant Time: Aug 21 01:36:35 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration



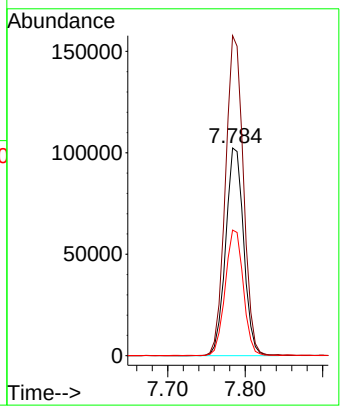


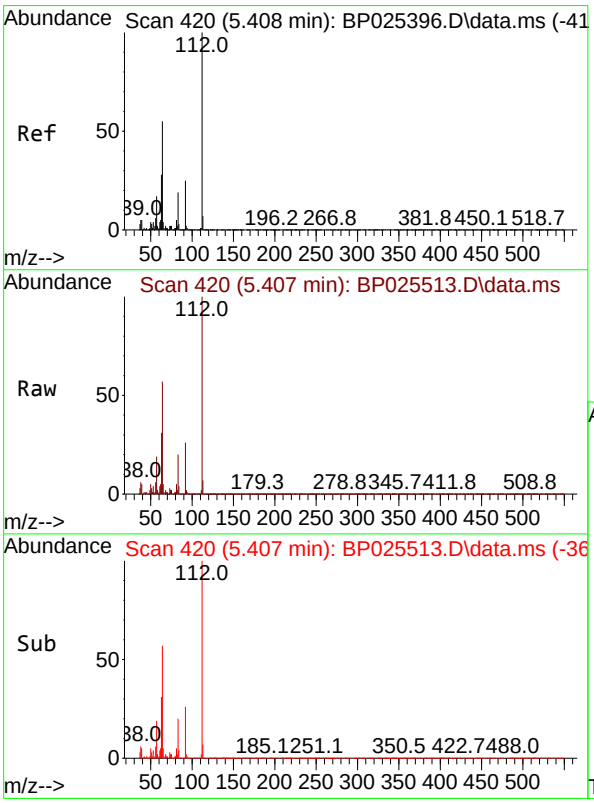
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.784 min Scan# 8
Delta R.T. -0.012 min
Lab File: BP025513.D
Acq: 20 Aug 2025 19:08

Instrument :
BNA_P
ClientSampleId :
PB169259BL

Tgt Ion:152 Resp: 165727

Ion	Ratio	Lower	Upper
152	100		
150	154.1	125.9	188.9
115	60.4	48.5	72.7

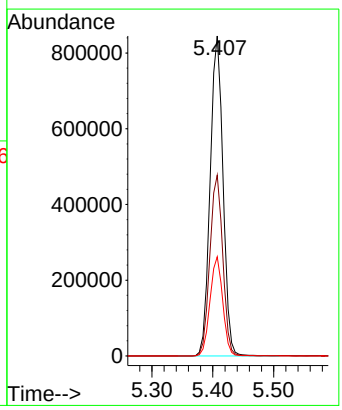


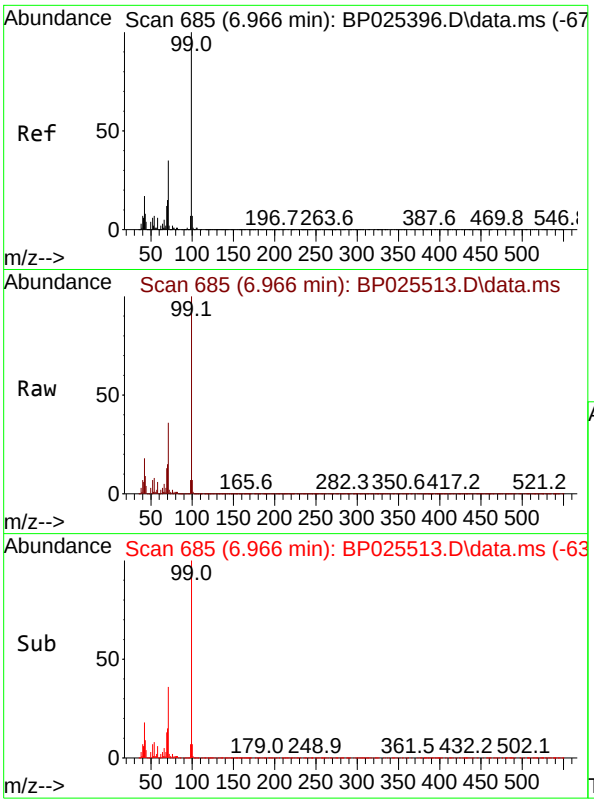


#5
2-Fluorophenol
Concen: 124.232 ng
RT: 5.407 min Scan# 420
Delta R.T. -0.000 min
Lab File: BP025513.D
Acq: 20 Aug 2025 19:08

Tgt Ion:112 Resp: 1239752

Ion	Ratio	Lower	Upper
112	100		
64	56.5	43.8	65.8
63	31.0	22.7	34.1



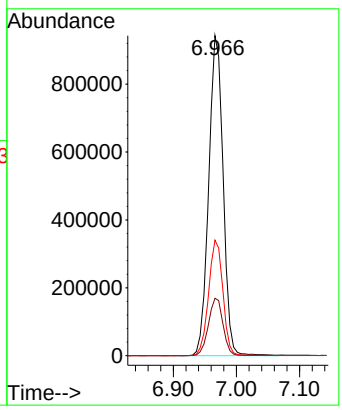


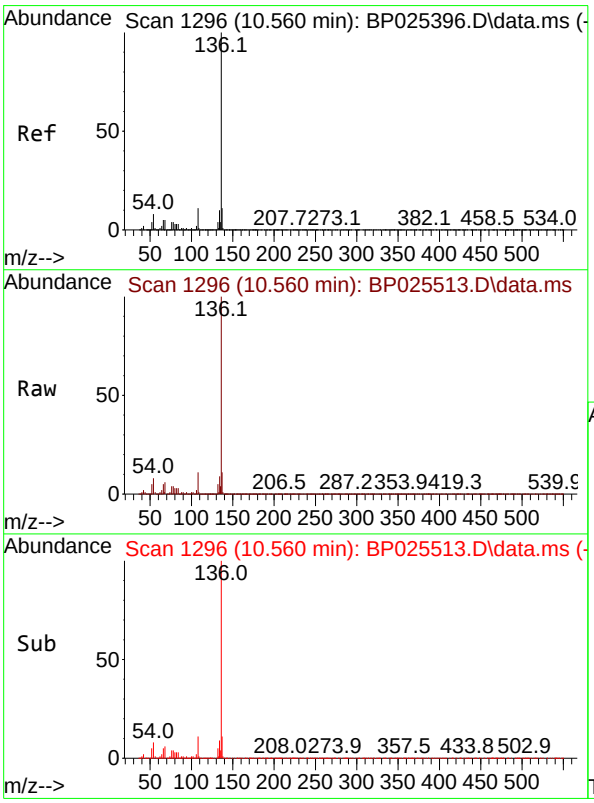
#7
Phenol-d6
Concen: 116.902 ng
RT: 6.966 min Scan# 6
Delta R.T. -0.000 min
Lab File: BP025513.D
Acq: 20 Aug 2025 19:08

Instrument :
BNA_P
ClientSampleId :
PB169259BL

Tgt Ion: 99 Resp: 1495688

Ion	Ratio	Lower	Upper
99	100		
42	17.9	13.7	20.5
71	36.1	28.2	42.4

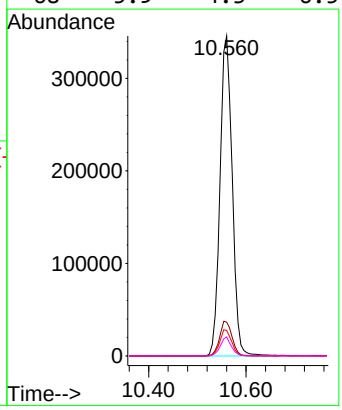


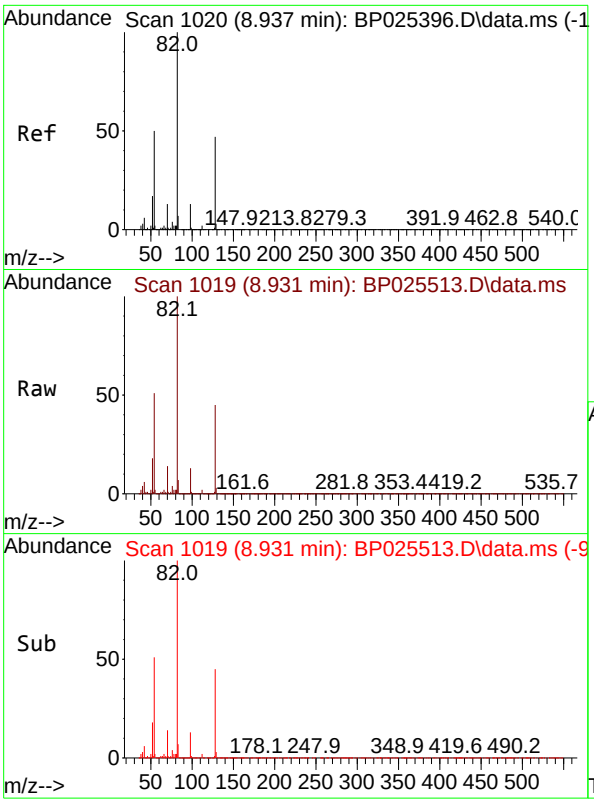


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.560 min Scan# 1296
Delta R.T. -0.000 min
Lab File: BP025513.D
Acq: 20 Aug 2025 19:08

Tgt Ion:136 Resp: 604691

Ion	Ratio	Lower	Upper
136	100		
137	10.6	9.2	13.8
54	8.0	6.0	9.0
68	5.9	4.3	6.5



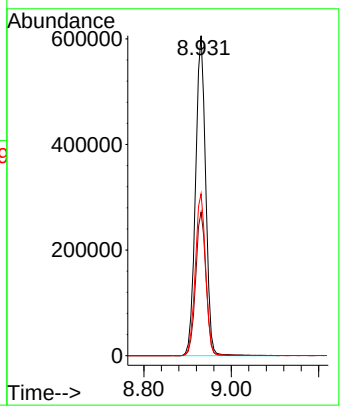


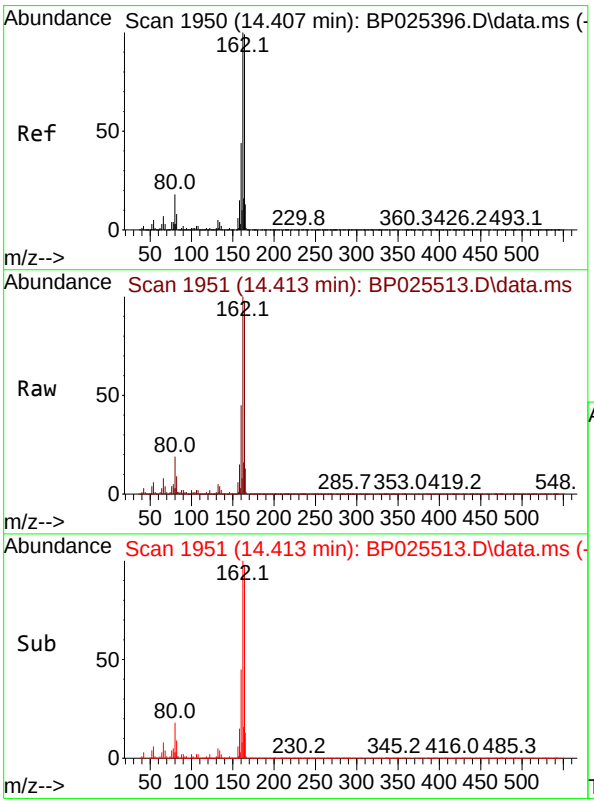
#23
Nitrobenzene-d5
Concen: 81.833 ng
RT: 8.931 min Scan# 1(
Delta R.T. -0.006 min
Lab File: BP025513.D
Acq: 20 Aug 2025 19:08

Instrument :
BNA_P
ClientSampleId :
PB169259BL

Tgt Ion: 82 Resp: 978215

Ion	Ratio	Lower	Upper
82	100		
128	44.8	37.7	56.5
54	50.6	39.8	59.6

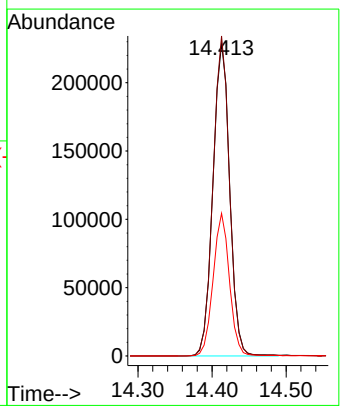


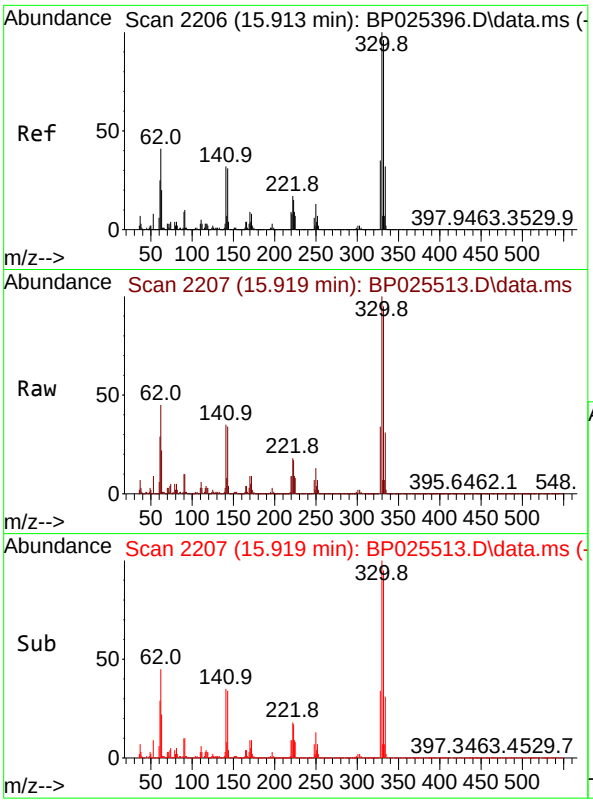


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.413 min Scan# 1951
Delta R.T. 0.006 min
Lab File: BP025513.D
Acq: 20 Aug 2025 19:08

Tgt Ion:164 Resp: 359341

Ion	Ratio	Lower	Upper
164	100		
162	102.5	81.0	121.6
160	45.6	35.4	53.2



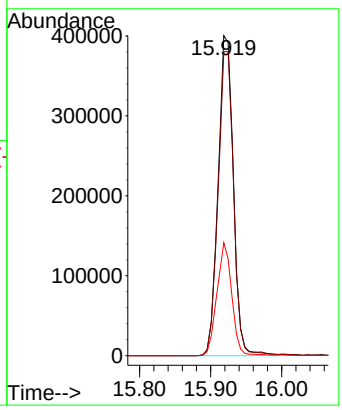


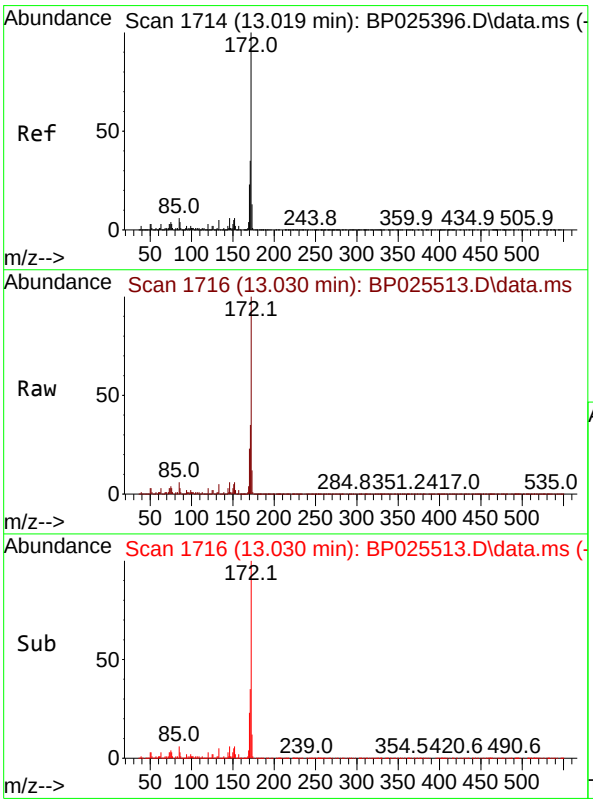
#42
2,4,6-Tribromophenol
Concen: 123.128 ng
RT: 15.919 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025513.D
Acq: 20 Aug 2025 19:08

Instrument :
BNA_P
ClientSampleId :
PB169259BL

Tgt Ion:330 Resp: 595541

Ion	Ratio	Lower	Upper
330	100		
332	96.5	77.3	115.9
141	34.7	26.6	39.8

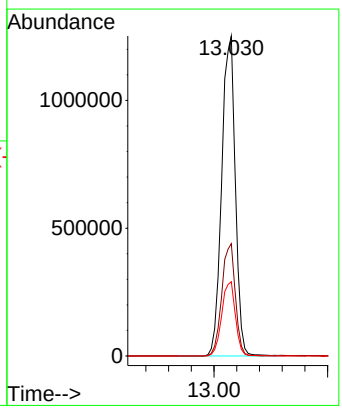


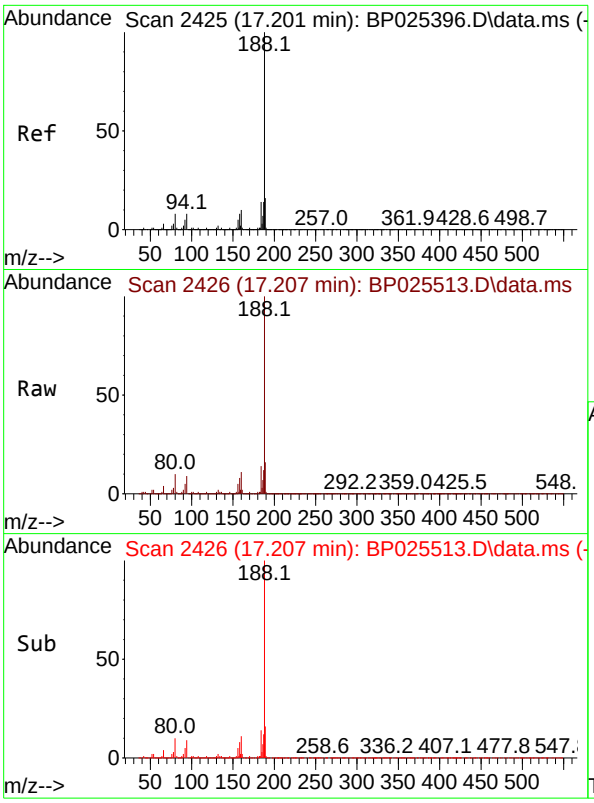


#45
2-Fluorobiphenyl
Concen: 79.557 ng
RT: 13.030 min Scan# 1716
Delta R.T. 0.012 min
Lab File: BP025513.D
Acq: 20 Aug 2025 19:08

Tgt Ion:172 Resp: 2091778

Ion	Ratio	Lower	Upper
172	100		
171	35.1	28.1	42.1
170	23.2	18.6	28.0



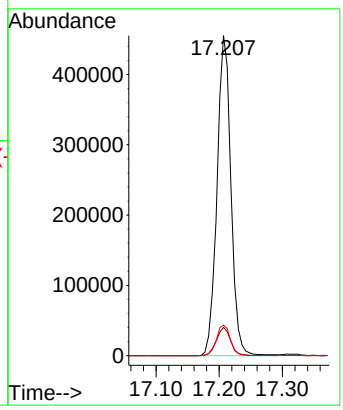


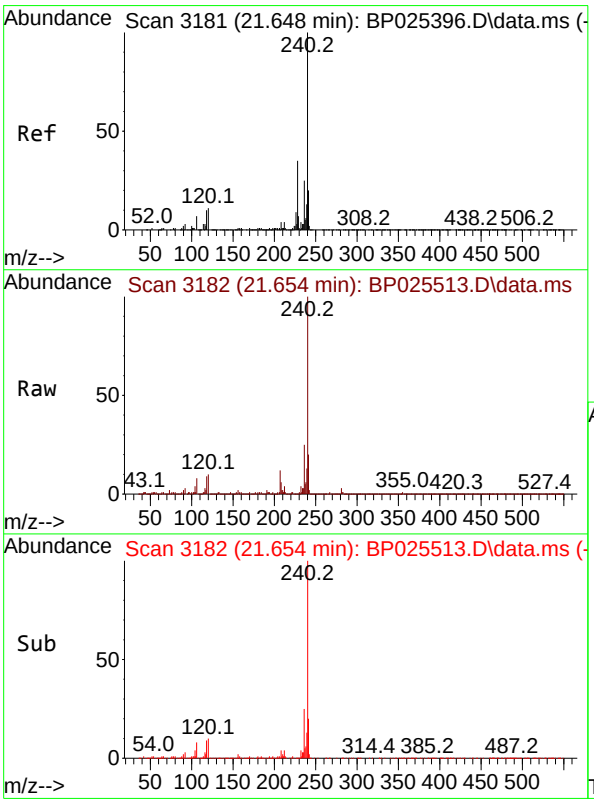
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.207 min Scan# 24
Delta R.T. 0.006 min
Lab File: BP025513.D
Acq: 20 Aug 2025 19:08

Instrument :
BNA_P
ClientSampleId :
PB169259BL

Tgt Ion:188 Resp: 696145

Ion	Ratio	Lower	Upper
188	100		
94	8.9	6.6	10.0
80	9.5	6.7	10.1

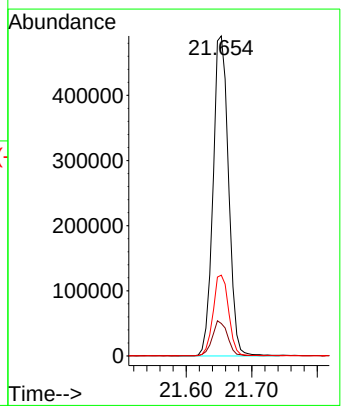


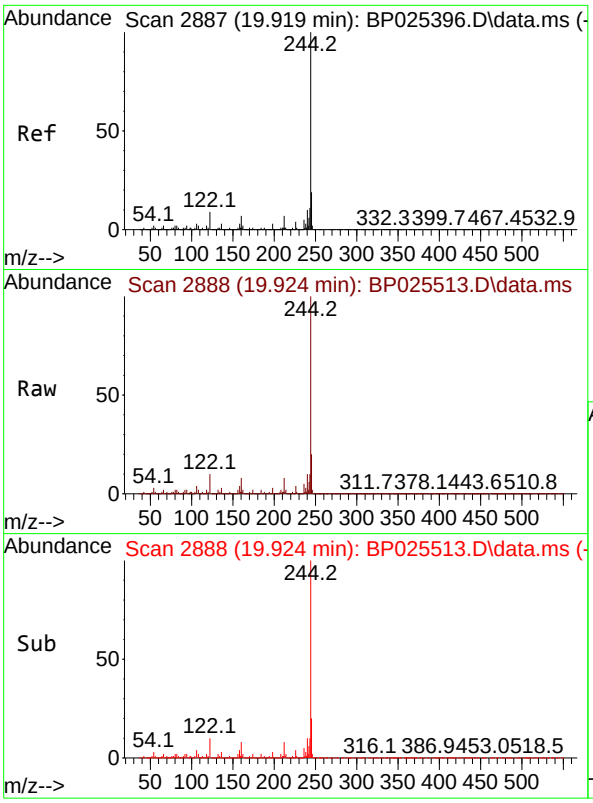


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.654 min Scan# 3182
Delta R.T. 0.006 min
Lab File: BP025513.D
Acq: 20 Aug 2025 19:08

Tgt Ion:240 Resp: 803107

Ion	Ratio	Lower	Upper
240	100		
120	10.2	8.9	13.3
236	25.2	19.8	29.8



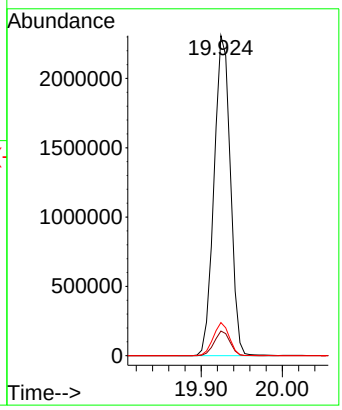


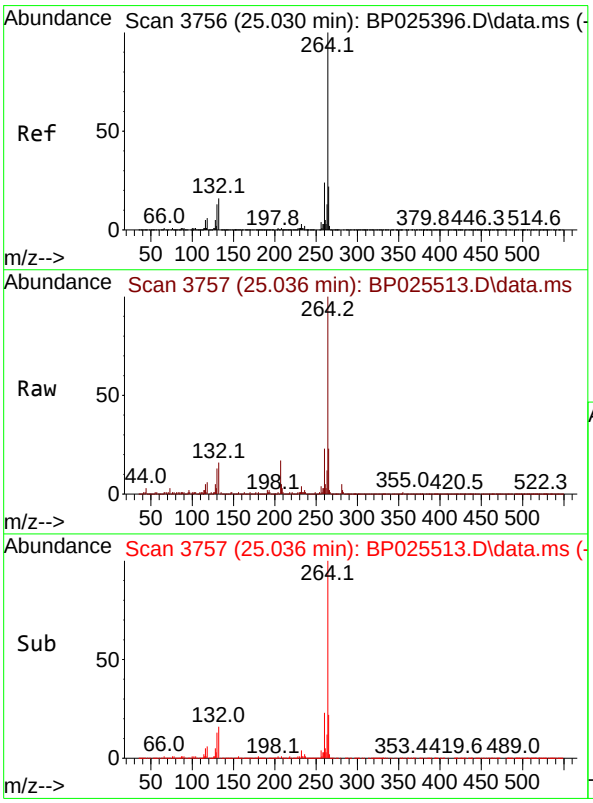
#79
Terphenyl-d14
Concen: 73.513 ng
RT: 19.924 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025513.D
Acq: 20 Aug 2025 19:08

Instrument :
BNA_P
ClientSampleId :
PB169259BL

Tgt Ion:244 Resp: 3226921

Ion	Ratio	Lower	Upper
244	100		
212	7.7	5.8	8.6
122	10.3	7.4	11.2

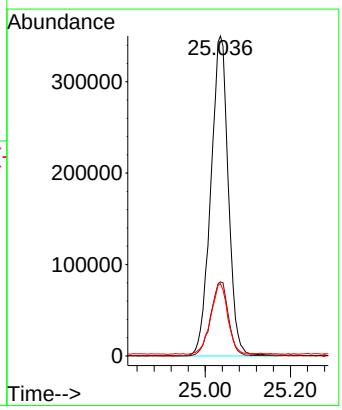




#86
Perylene-d12
Concen: 20.000 ng
RT: 25.036 min Scan# 3757
Delta R.T. 0.006 min
Lab File: BP025513.D
Acq: 20 Aug 2025 19:08

Tgt Ion:264 Resp: 1000703

Ion	Ratio	Lower	Upper
264	100		
260	23.2	19.3	28.9
265	22.6	17.4	26.0



Sample Results: **BP025513.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025513.D
Acq On : 20 Aug 2025 19:08
Operator : CG/JU
Sample : PB169259BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB169259BL

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

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

Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BP025513.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.949	336	342	350	rBV	266021	388193	4.41%	0.929%
2	5.407	413	420	436	rBV	2929177	4307212	48.88%	10.306%
3	6.966	676	685	696	rBV	2655552	4257386	48.32%	10.186%
4	7.784	816	824	835	rBV	594154	965160	10.95%	2.309%
5	8.931	1011	1019	1034	rBV	1779583	2912217	33.05%	6.968%
6	10.560	1288	1296	1315	rBV	708525	1251249	14.20%	2.994%
7	13.030	1706	1716	1729	rBV	3594557	6120052	69.45%	14.643%
8	14.413	1944	1951	1958	rBV	982314	1522774	17.28%	3.643%
9	15.919	2194	2207	2221	rBV	3020051	4548047	51.61%	10.882%
10	17.207	2419	2426	2438	rBV2	1133246	1765337	20.03%	4.224%
11	19.924	2882	2888	2894	rBV	6373222	8811557	100.00%	21.083%
12	21.654	3176	3182	3196	rVB2	1330971	2270968	25.77%	5.434%
13	25.036	3748	3757	3771	rVB	936386	2675042	30.36%	6.400%

Sum of corrected areas: 41795194

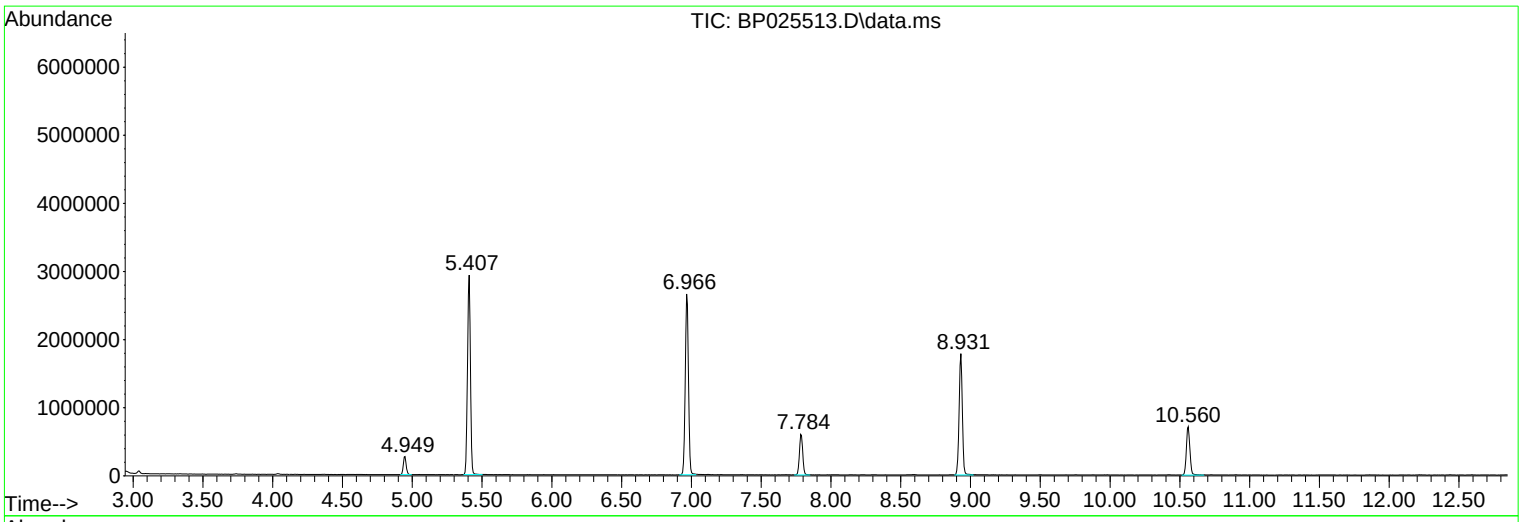
Sample Results: **BP025513.D**

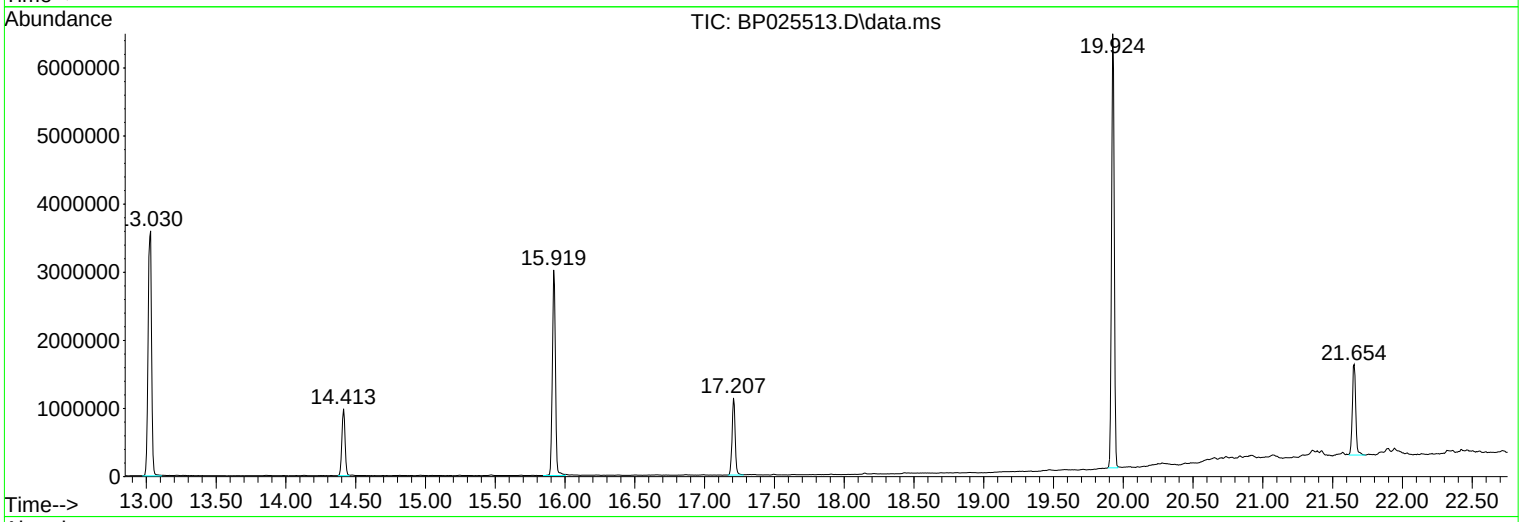
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025513.D
Acq On : 20 Aug 2025 19:08
Operator : CG/JU
Sample : PB169259BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

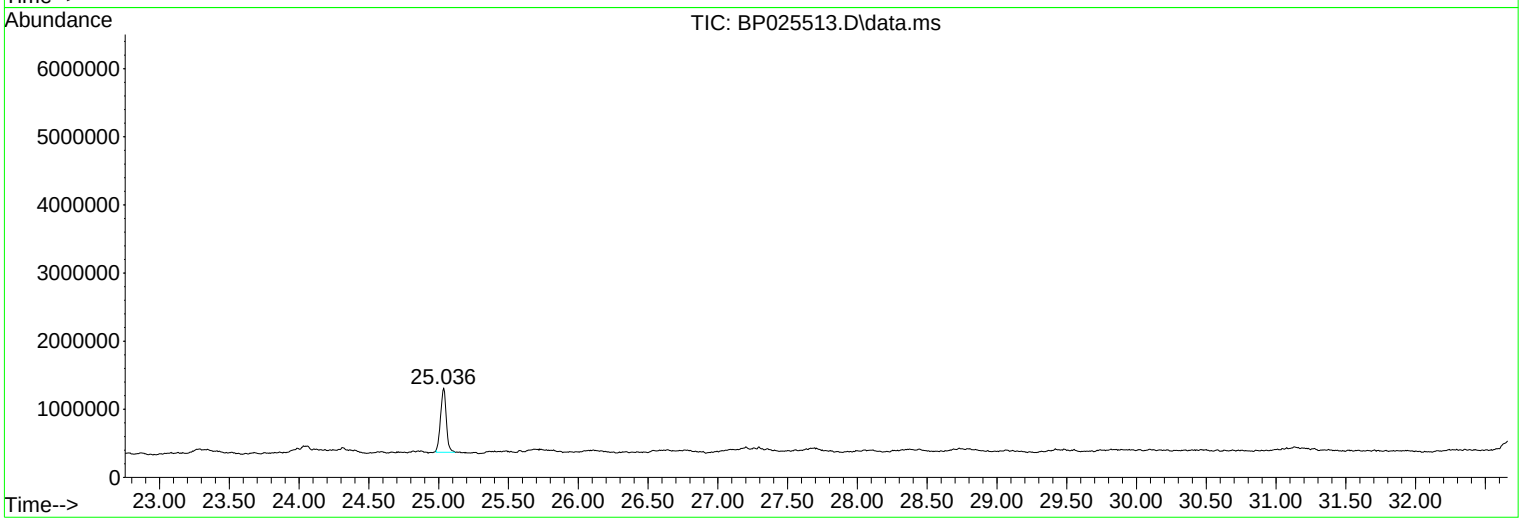
Instrument :
BNA_P
ClientSampleId :
PB169259BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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







Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025513.D
Acq On : 20 Aug 2025 19:08
Operator : CG/JU
Sample : PB169259BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB169259BL

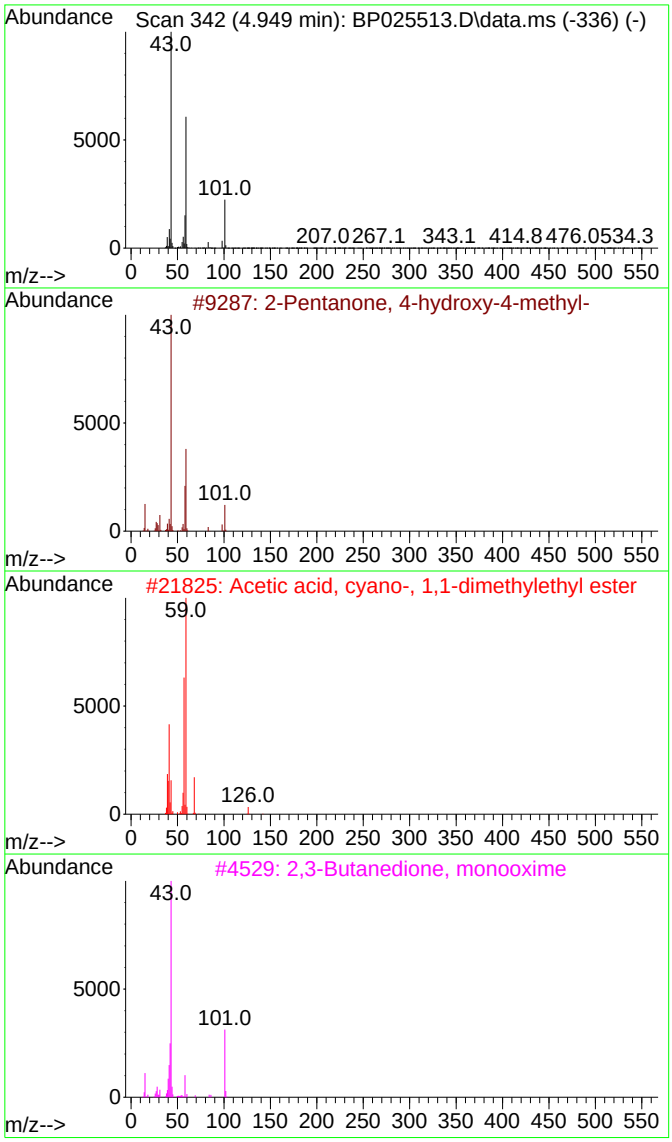
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

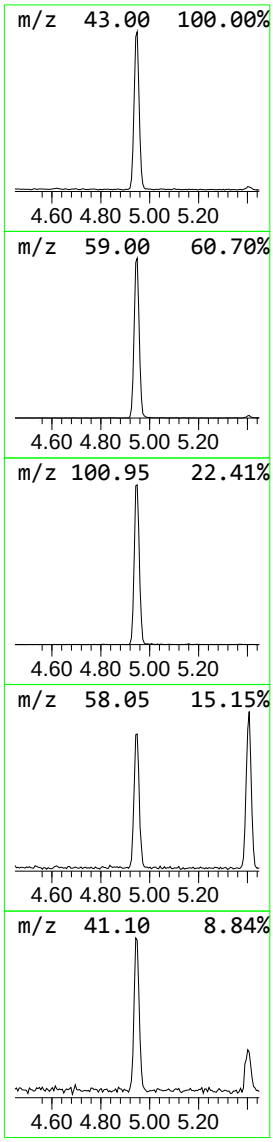
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.949	8.04 ng	388193	1,4-Dichlorobenzene-d4	7.784

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	32
3	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	17
4	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	10
5	(+-)-4-Amino-4,5-dihydro-2(3H)-f...	101	C4H7NO2	016504-58-8	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025513.D
Acq On : 20 Aug 2025 19:08
Operator : CG/JU
Sample : PB169259BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB169259BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
2-Pentanone, 4-...	4.949	8.0	ng	388193	1	7.784	965160	20.0

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

Report of Analysis

Client:	First Environment, Inc.			Date Collected:	
Project:	USACE018-44 DOD			Date Received:	
Client Sample ID:	PB169242BS			SDG No.:	Q2819
Lab Sample ID:	PB169242BS			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	100
Sample Wt/Vol:	30.03	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOC-TCL BNA -20
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP025489.D	1	08/14/25 08:40	08/20/25 01:07	PB169242

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
100-52-7	Benzaldehyde	940		160	270	330	ug/Kg
108-95-2	Phenol	1600		22.1	130	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1500		24.3	130	170	ug/Kg
95-57-8	2-Chlorophenol	1600		24.4	130	170	ug/Kg
95-48-7	2-Methylphenol	1600		29.9	130	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1600		37.5	130	170	ug/Kg
98-86-2	Acetophenone	1600		29.5	130	170	ug/Kg
65794-96-9	3+4-Methylphenols	1600		41.1	270	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1500		47.4	79.9	79.9	ug/Kg
67-72-1	Hexachloroethane	1500		17.6	130	170	ug/Kg
98-95-3	Nitrobenzene	1600		18.3	130	170	ug/Kg
78-59-1	Isophorone	1600		32.8	130	170	ug/Kg
88-75-5	2-Nitrophenol	1600		58.1	130	170	ug/Kg
105-67-9	2,4-Dimethylphenol	1700		64.7	130	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1600		30.8	130	170	ug/Kg
120-83-2	2,4-Dichlorophenol	1700		28.3	130	170	ug/Kg
91-20-3	Naphthalene	1600		22.7	130	170	ug/Kg
106-47-8	4-Chloroaniline	1200		35.4	130	170	ug/Kg
87-68-3	Hexachlorobutadiene	1600		25.3	130	170	ug/Kg
105-60-2	Caprolactam	1900		52.0	270	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1800		28.7	130	170	ug/Kg
91-57-6	2-Methylnaphthalene	1600		25.6	130	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	2900	E	120	270	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1600		19.8	130	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1700		29.1	130	170	ug/Kg
92-52-4	1,1-Biphenyl	1500		21.8	130	170	ug/Kg
91-58-7	2-Chloronaphthalene	1500		22.5	130	170	ug/Kg
88-74-4	2-Nitroaniline	1800		48.1	130	170	ug/Kg
131-11-3	Dimethylphthalate	1700		27.1	130	170	ug/Kg

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

Report of Analysis

Client:	First Environment, Inc.			Date Collected:	
Project:	USACE018-44 DOD			Date Received:	
Client Sample ID:	PB169242BS			SDG No.:	Q2819
Lab Sample ID:	PB169242BS			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	100
Sample Wt/Vol:	30.03	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOC-TCL BNA -20
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP025489.D	1	08/14/25 08:40	08/20/25 01:07	PB169242

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1600		28.9	130	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	1800		33.6	130	170	ug/Kg
99-09-2	3-Nitroaniline	1400		46.0	130	170	ug/Kg
83-32-9	Acenaphthene	1600		21.3	130	170	ug/Kg
51-28-5	2,4-Dinitrophenol	4200	E	230	270	330	ug/Kg
100-02-7	4-Nitrophenol	3800	E	110	270	330	ug/Kg
132-64-9	Dibenzofuran	1600		22.7	130	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	1900		50.0	130	170	ug/Kg
84-66-2	Diethylphthalate	1800		28.3	130	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1600		26.7	130	170	ug/Kg
86-73-7	Fluorene	1600		25.3	130	170	ug/Kg
100-01-6	4-Nitroaniline	1800		64.1	130	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1800		100	270	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1600		32.9	130	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1600		27.8	130	170	ug/Kg
118-74-1	Hexachlorobenzene	1600		25.3	130	170	ug/Kg
1912-24-9	Atrazine	1700		34.0	130	170	ug/Kg
87-86-5	Pentachlorophenol	3600	E	51.2	270	330	ug/Kg
85-01-8	Phenanthrene	1600		20.9	130	170	ug/Kg
120-12-7	Anthracene	1600		33.3	130	170	ug/Kg
86-74-8	Carbazole	1700		31.2	130	170	ug/Kg
84-74-2	Di-n-butylphthalate	1700		47.9	130	170	ug/Kg
206-44-0	Fluoranthene	1700		30.0	130	170	ug/Kg
129-00-0	Pyrene	1600		36.0	130	170	ug/Kg
85-68-7	Butylbenzylphthalate	1700		71.3	130	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1200		36.7	270	330	ug/Kg
56-55-3	Benzo(a)anthracene	1700		23.0	130	170	ug/Kg
218-01-9	Chrysene	1700		19.9	130	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1700		59.1	130	170	ug/Kg
117-84-0	Di-n-octyl phthalate	1700		86.7	270	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	1800		19.0	130	170	ug/Kg

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

Report of Analysis

Client:	First Environment, Inc.			Date Collected:	
Project:	USACE018-44 DOD			Date Received:	
Client Sample ID:	PB169242BS			SDG No.:	Q2819
Lab Sample ID:	PB169242BS			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	100
Sample Wt/Vol:	30.03	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOC-TCL BNA -20
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP025489.D	1	08/14/25 08:40	08/20/25 01:07	PB169242

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1800		22.4	130	170	ug/Kg
50-32-8	Benzo(a)pyrene	1700		29.5	130	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1700		29.1	130	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1700		27.4	130	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1700		25.7	130	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1500		25.6	130	170	ug/Kg
123-91-1	1,4-Dioxane	1100		45.2	130	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1800		27.4	130	170	ug/Kg
SURROGATES							
367-12-4	2-Fluorophenol	134		35 - 115		90%	SPK: 150
13127-88-3	Phenol-d6	134		34 - 127		90%	SPK: 150
4165-60-0	Nitrobenzene-d5	83.8		37 - 122		84%	SPK: 100
321-60-8	2-Fluorobiphenyl	76.8		44 - 115		77%	SPK: 100
118-79-6	2,4,6-Tribromophenol	145		39 - 132		97%	SPK: 150
1718-51-0	Terphenyl-d14	86.4		54 - 127		86%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	126000	7.796				
1146-65-2	Naphthalene-d8	506000	10.566				
15067-26-2	Acenaphthene-d10	364000	14.401				
1517-22-2	Phenanthrene-d10	786000	17.189				
1719-03-5	Chrysene-d12	838000	21.625				
1520-96-3	Perylene-d12	884000	24.989				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081925\
Data File : BP025489.D
Acq On : 20 Aug 2025 01:07
Operator : CG/JU
Sample : PB169242BS
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB169242BS

Quant Time: Aug 20 02:27:35 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.796	152	125615	20.000	ng	0.00
21) Naphthalene-d8	10.566	136	505871	20.000	ng	0.00
39) Acenaphthene-d10	14.401	164	363724	20.000	ng	0.00
64) Phenanthrene-d10	17.189	188	785967	20.000	ng	-0.01
76) Chrysene-d12	21.625	240	837525	20.000	ng	-0.02
86) Perylene-d12	24.989	264	883653	20.000	ng	-0.04
System Monitoring Compounds						
5) 2-Fluorophenol	5.414	112	1016778	134.424	ng	0.00
7) Phenol-d6	6.972	99	1302531	134.314	ng	0.00
23) Nitrobenzene-d5	8.931	82	838338	83.831	ng	0.00
42) 2,4,6-Tribromophenol	15.907	330	711475	145.325	ng	0.00
45) 2-Fluorobiphenyl	13.019	172	2044889	76.836	ng	0.00
79) Terphenyl-d14	19.901	244	3953214	86.358	ng	-0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	3.331	88	100520	33.927	ng	97
3) Pyridine	3.731	79	298101	36.760	ng	98
4) n-Nitrosodimethylamine	3.631	42	161754	48.382	ng	91
6) Aniline	7.125	93	519797	39.782	ng	99
8) 2-Chlorophenol	7.366	128	417455	48.907	ng	98
9) Benzaldehyde	6.943	77	192102	28.274	ng	99
10) Phenol	7.002	94	503580	49.488	ng	98
11) bis(2-Chloroethyl)ether	7.219	93	362223	45.670	ng	99
12) 1,3-Dichlorobenzene	7.684	146	425265	45.184	ng	99
13) 1,4-Dichlorobenzene	7.831	146	433606	45.073	ng	99
14) 1,2-Dichlorobenzene	8.143	146	419293	45.026	ng	98
15) Benzyl Alcohol	8.031	79	371563	48.221	ng	98
16) 2,2'-oxybis(1-Chloropr...	8.308	45	499110	46.976	ng	99
17) 2-Methylphenol	8.231	107	347697	49.197	ng	97
18) Hexachloroethane	8.866	117	160973	45.510	ng	95
19) n-Nitroso-di-n-propyla...	8.590	70	289898	45.130	ng	97
20) 3+4-Methylphenols	8.549	107	483810	49.386	ng	98
22) Acetophenone	8.602	105	606991	47.846	ng	98
24) Nitrobenzene	8.972	77	430234	48.138	ng	97
25) Isophorone	9.502	82	843994	47.689	ng	99
26) 2-Nitrophenol	9.678	139	223852	48.804	ng	97
27) 2,4-Dimethylphenol	9.743	122	400946	50.831	ng	97
28) bis(2-Chloroethoxy)met...	9.972	93	505254	47.229	ng	98
29) 2,4-Dichlorophenol	10.213	162	404232	51.589	ng	98
30) 1,2,4-Trichlorobenzene	10.425	180	401415	46.732	ng	99
31) Naphthalene	10.613	128	1244457	47.331	ng	100
32) Benzoic acid	9.890	122	331854	56.986	ng	98
33) 4-Chloroaniline	10.713	127	401484	34.569	ng	99
34) Hexachlorobutadiene	10.902	225	251210	46.960	ng	99
35) Caprolactam	11.502	113	165373	57.557	ng	97
36) 4-Chloro-3-methylphenol	11.843	107	489388	54.429	ng	98
37) 2-Methylnaphthalene	12.213	142	816767	47.734	ng	98
38) 1-Methylnaphthalene	12.437	142	875005	48.086	ng	100
40) 1,2,4,5-Tetrachloroben...	12.584	216	466718	44.429	ng	99
41) Hexachlorocyclopentadiene	12.572	237	547819	86.335	ng	100
43) 2,4,6-Trichlorophenol	12.825	196	351027	49.497	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081925\
Data File : BP025489.D
Acq On : 20 Aug 2025 01:07
Operator : CG/JU
Sample : PB169242BS
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB169242BS

Quant Time: Aug 20 02:27:35 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration

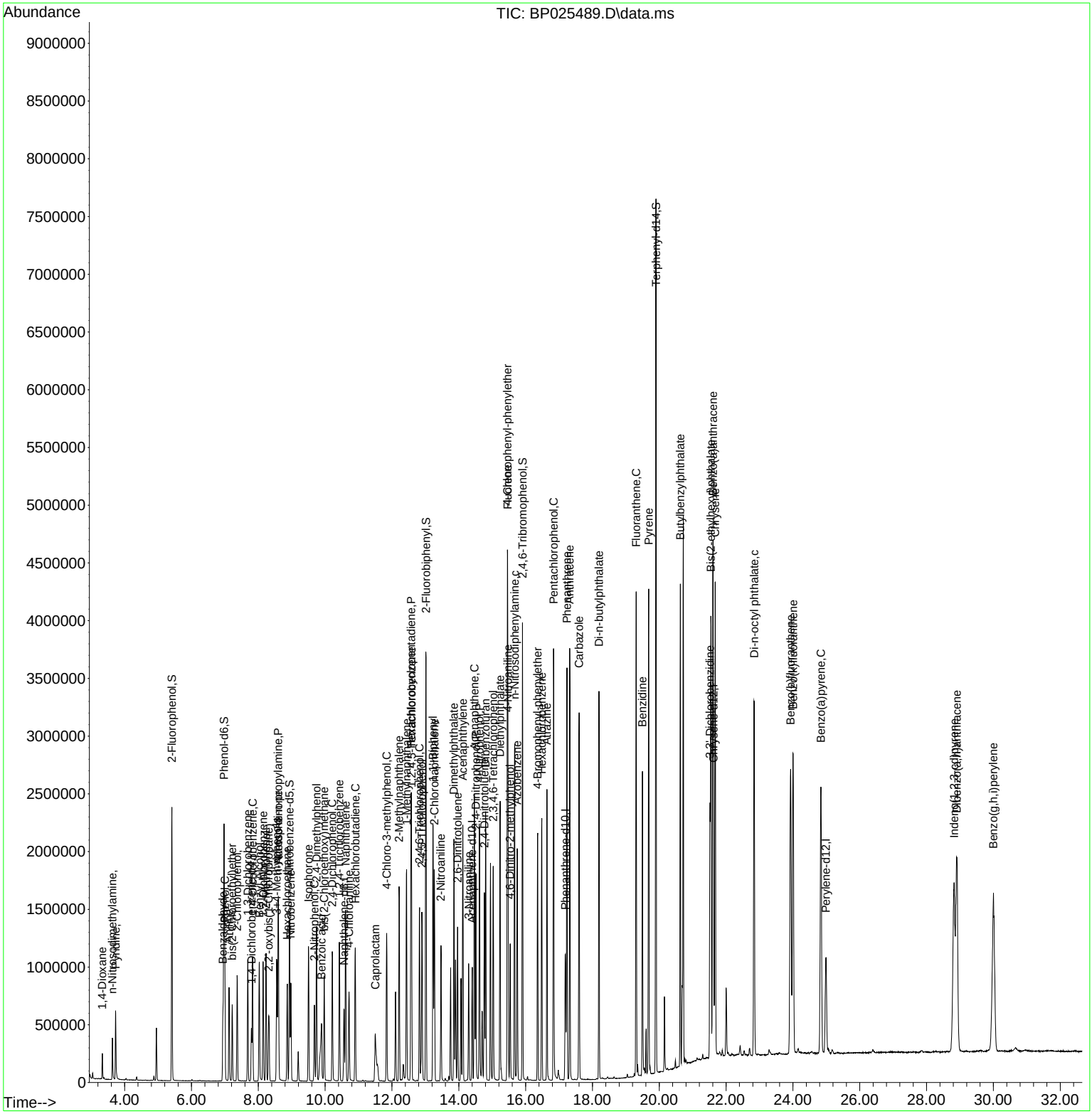
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.896	196	398379	51.255	ng	100
46) 1,1'-Biphenyl	13.231	154	1213211	45.928	ng	99
47) 2-Chloronaphthalene	13.266	162	928328	45.143	ng	100
48) 2-Nitroaniline	13.466	65	331140	55.264	ng	98
49) Acenaphthylene	14.119	152	1618996	47.578	ng	100
50) Dimethylphthalate	13.854	163	1356557	50.931	ng	99
51) 2,6-Dinitrotoluene	13.966	165	300006	53.440	ng	98
52) Acenaphthene	14.466	154	940183	47.071	ng	100
53) 3-Nitroaniline	14.296	138	256549	40.618	ng	97
54) 2,4-Dinitrophenol	14.513	184	376459	125.571	ng	95
55) Dibenzofuran	14.801	168	1506121	47.694	ng	98
56) 4-Nitrophenol	14.619	139	597756	115.169	ng	91
57) 2,4-Dinitrotoluene	14.766	165	460365	57.476	ng	97
58) Fluorene	15.460	166	1219615	48.945	ng	98
59) 2,3,4,6-Tetrachlorophenol	15.031	232	366949	53.468	ng	98
60) Diethylphthalate	15.237	149	1431889	52.907	ng	98
61) 4-Chlorophenyl-phenyle...	15.454	204	595570	48.058	ng	97
62) 4-Nitroaniline	15.472	138	345776	53.400	ng	93
63) Azobenzene	15.748	77	1241428	53.570	ng	98
65) 4,6-Dinitro-2-methylph...	15.537	198	263835	53.851	ng	93
66) n-Nitrosodiphenylamine	15.672	169	1153302	48.120	ng	99
67) 4-Bromophenyl-phenylether	16.360	248	404681	46.815	ng	97
68) Hexachlorobenzene	16.484	284	477945	47.697	ng	97
69) Atrazine	16.637	200	464200	51.717	ng	97
70) Pentachlorophenol	16.837	266	678508	107.267	ng	98
71) Phenanthrene	17.237	178	2106985	48.800	ng	100
72) Anthracene	17.319	178	2136608	48.459	ng	99
73) Carbazole	17.601	167	2120545	51.060	ng	99
74) Di-n-butylphthalate	18.195	149	2680990	52.470	ng	99
75) Fluoranthene	19.307	202	2590995	50.309	ng	99
77) Benzidine	19.495	184	1477006	51.674	ng	100
78) Pyrene	19.683	202	2692453	49.460	ng	99
80) Butylbenzylphthalate	20.630	149	1285781	52.116	ng	100
81) Benzo(a)anthracene	21.607	228	2778617	50.305	ng	100
82) 3,3'-Dichlorobenzidine	21.519	252	778549	37.395	ng	99
83) Chrysene	21.672	228	2595574	50.178	ng	99
84) Bis(2-ethylhexyl)phtha...	21.542	149	1893639	52.141	ng	100
85) Di-n-octyl phthalate	22.842	149	3252836	52.072	ng	98
87) Indeno(1,2,3-cd)pyrene	28.824	276	3313996	51.139	ng	97
88) Benzo(b)fluoranthene	23.930	252	2770744	53.175	ng	99
89) Benzo(k)fluoranthene	24.007	252	2746666	52.677	ng	99
90) Benzo(a)pyrene	24.836	252	2643770	52.123	ng	99
91) Dibenzo(a,h)anthracene	28.907	278	2719515	51.352	ng	98
92) Benzo(g,h,i)perylene	30.001	276	2689664	51.668	ng	99

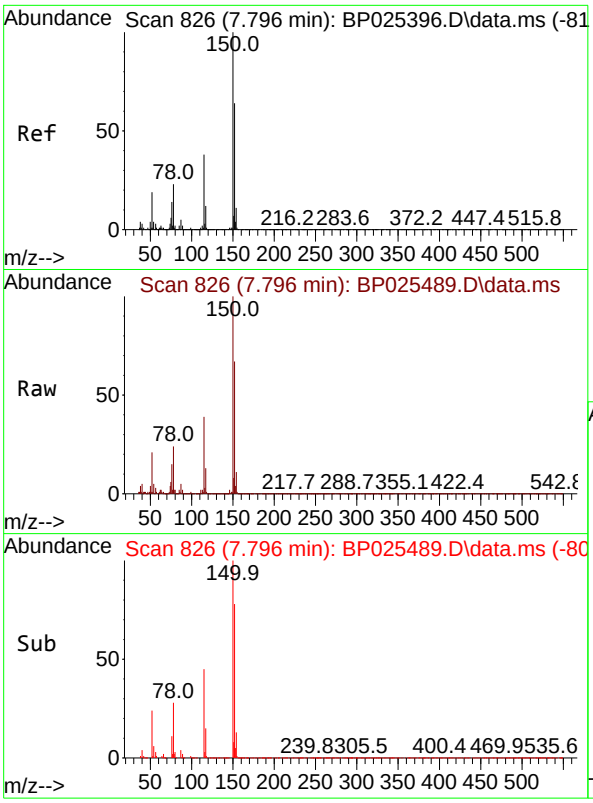
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081925\
Data File : BP025489.D
Acq On : 20 Aug 2025 01:07
Operator : CG/JU
Sample : PB169242BS
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB169242BS

Quant Time: Aug 20 02:27:35 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration



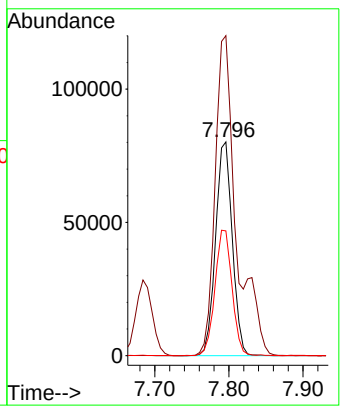


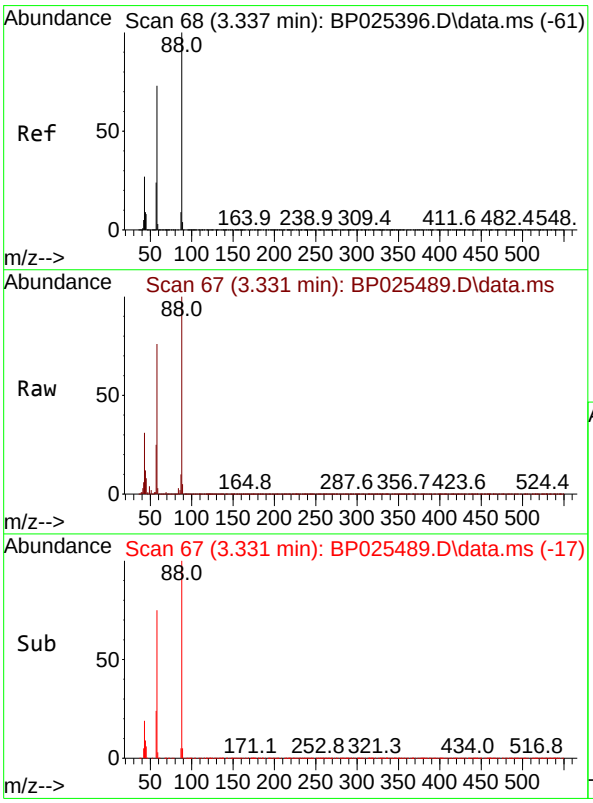
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.796 min Scan# 8
Delta R.T. -0.000 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Instrument :
BNA_P
ClientSampleId :
PB169242BS

Tgt Ion:152 Resp: 125615

Ion	Ratio	Lower	Upper
152	100		
150	149.8	125.9	188.9
115	58.4	48.5	72.7

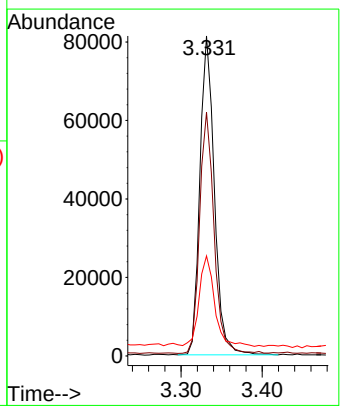


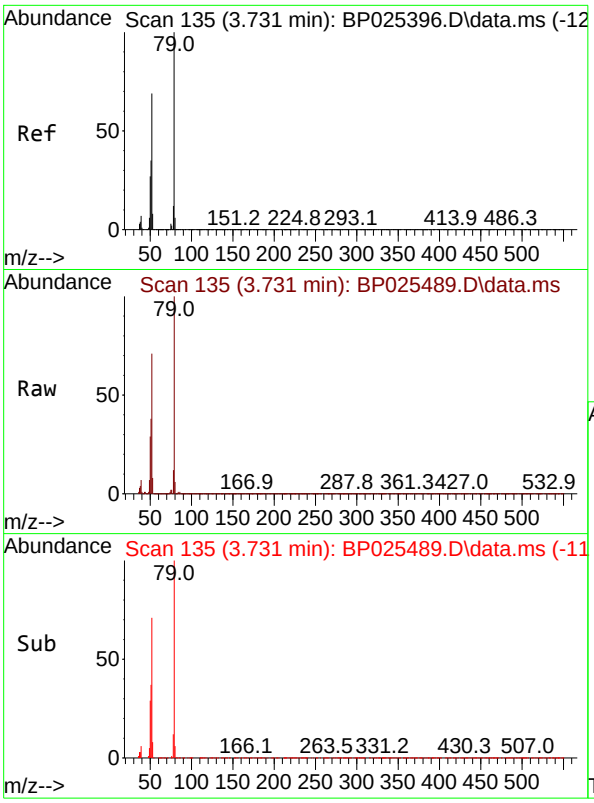


#2
1,4-Dioxane
Concen: 33.927 ng
RT: 3.331 min Scan# 67
Delta R.T. -0.006 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Tgt Ion: 88 Resp: 100520

Ion	Ratio	Lower	Upper
88	100		
58	75.5	59.2	88.8
43	30.2	21.7	32.5



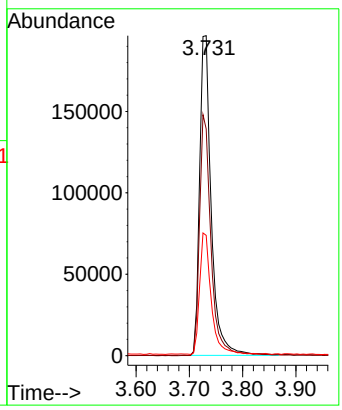


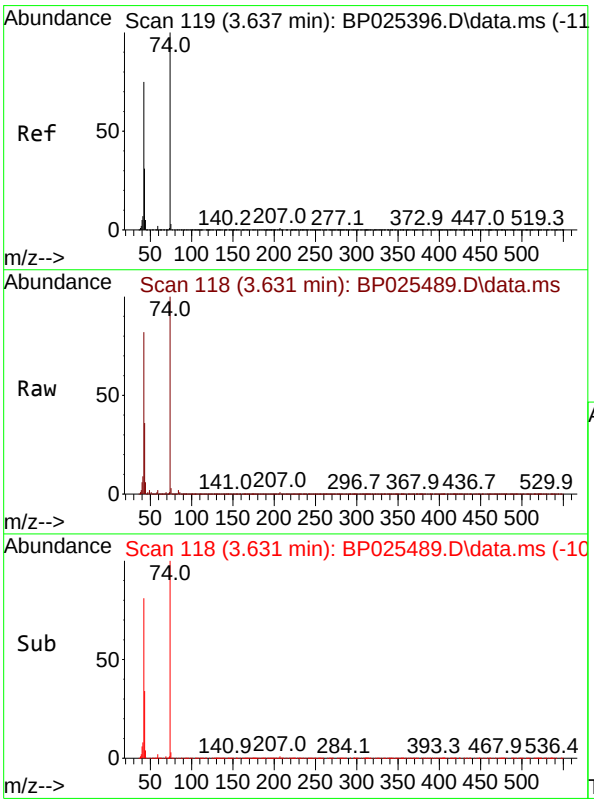
#3
Pyridine
Concen: 36.760 ng
RT: 3.731 min Scan# 11
Delta R.T. 0.000 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Instrument :
BNA_P
ClientSampleId :
PB169242BS

Tgt Ion: 79 Resp: 298101

Ion	Ratio	Lower	Upper
79	100		
52	70.9	55.5	83.3
51	37.6	28.3	42.5

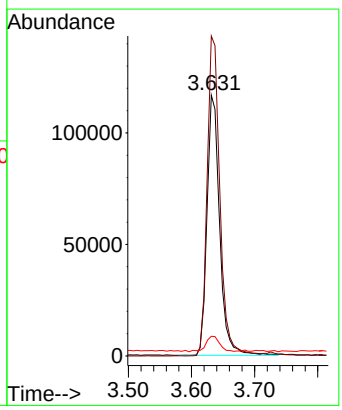


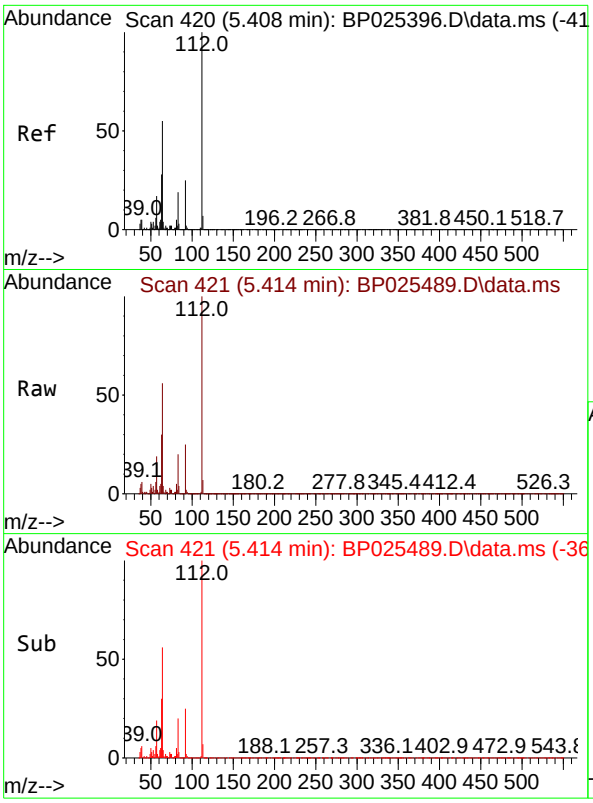


#4
n-Nitrosodimethylamine
Concen: 48.382 ng
RT: 3.631 min Scan# 118
Delta R.T. -0.006 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Tgt Ion: 42 Resp: 161754

Ion	Ratio	Lower	Upper
42	100		
74	122.7	107.0	160.4
44	7.5	6.2	9.4



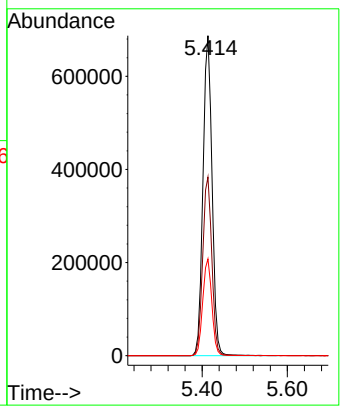


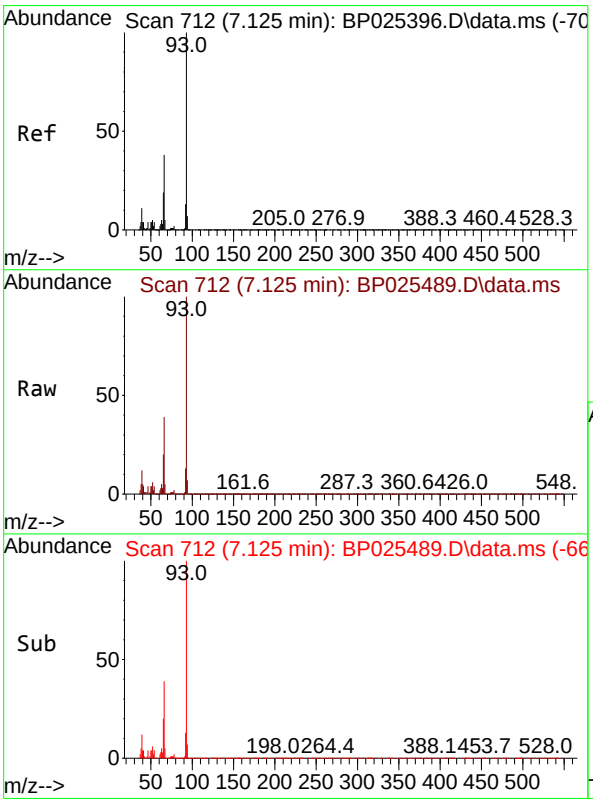
#5
2-Fluorophenol
Concen: 134.424 ng
RT: 5.414 min Scan# 4
Delta R.T. 0.006 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Instrument :
BNA_P
ClientSampleId :
PB169242BS

Tgt Ion:112 Resp: 1016778

Ion	Ratio	Lower	Upper
112	100		
64	55.8	43.8	65.8
63	30.3	22.7	34.1

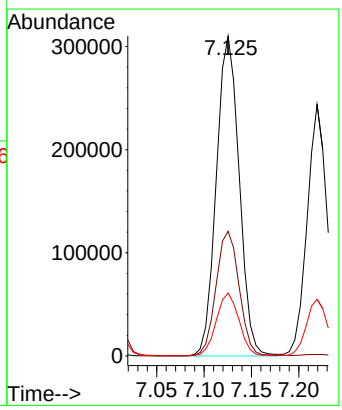


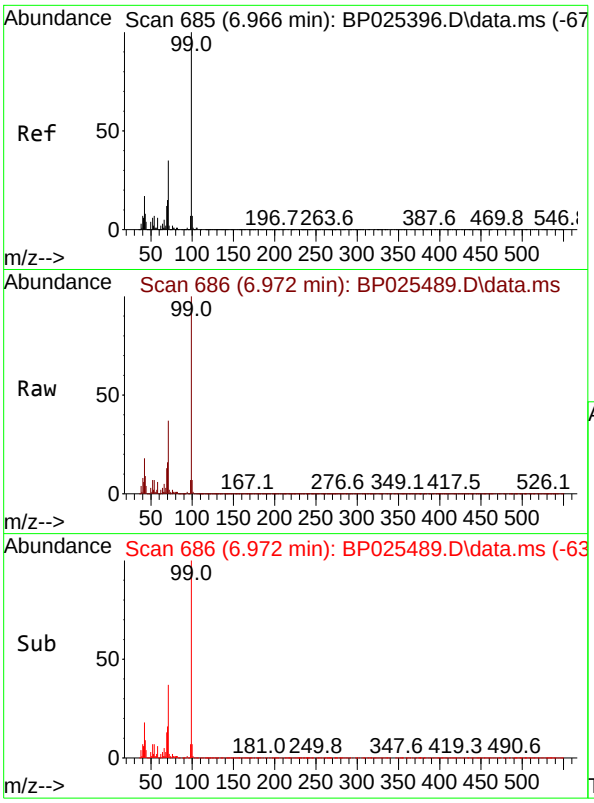


#6
Aniline
Concen: 39.782 ng
RT: 7.125 min Scan# 712
Delta R.T. 0.000 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Tgt Ion: 93 Resp: 519797

Ion	Ratio	Lower	Upper
93	100		
66	38.9	30.4	45.6
65	19.7	15.3	22.9



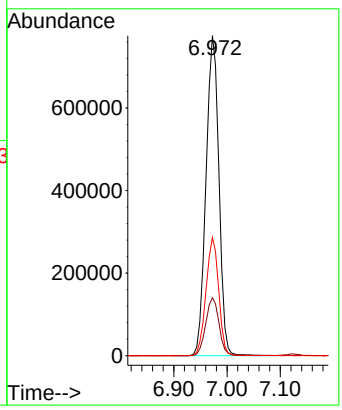


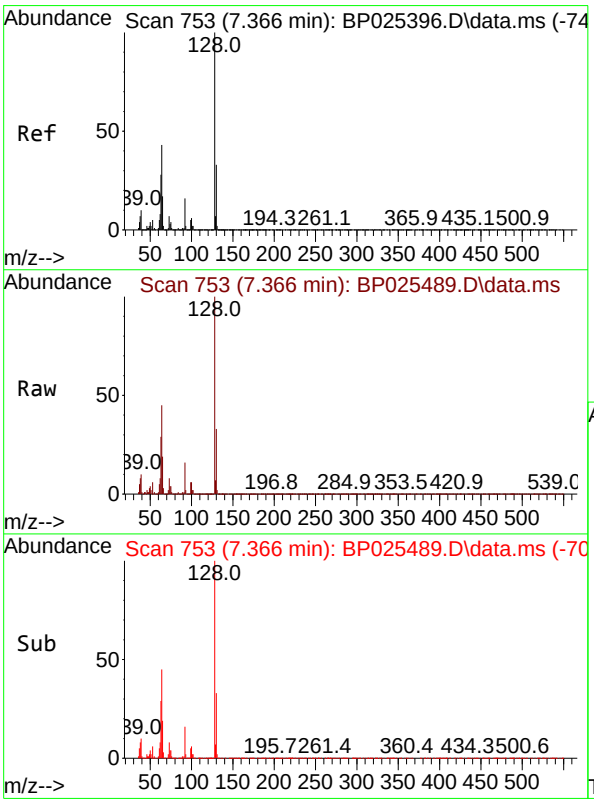
#7
Phenol-d6
Concen: 134.314 ng
RT: 6.972 min Scan# 6
Delta R.T. 0.006 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Instrument :
BNA_P
ClientSampleId :
PB169242BS

Tgt Ion: 99 Resp: 1302531

Ion	Ratio	Lower	Upper
99	100		
42	18.1	13.7	20.5
71	36.9	28.2	42.4

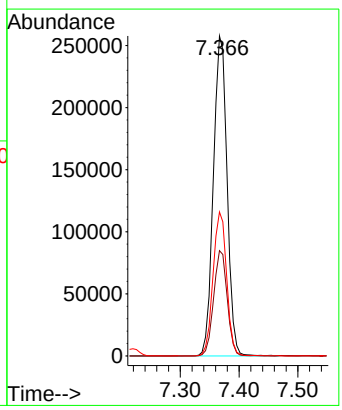


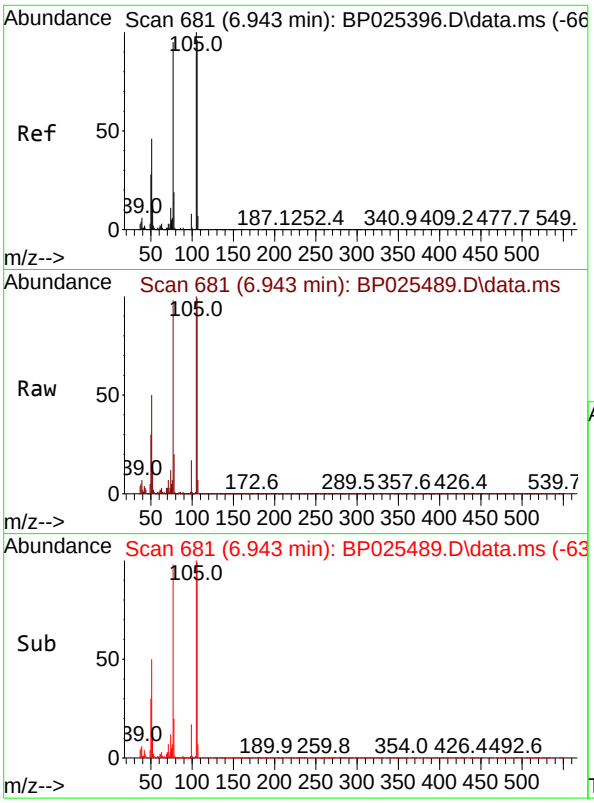


#8
2-Chlorophenol
Concen: 48.907 ng
RT: 7.366 min Scan# 753
Delta R.T. 0.000 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Tgt Ion:128 Resp: 417455

Ion	Ratio	Lower	Upper
128	100		
130	32.9	12.6	52.6
64	45.0	23.4	63.4



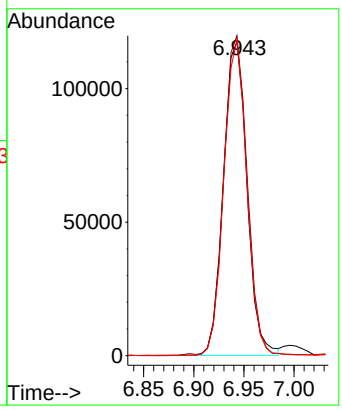


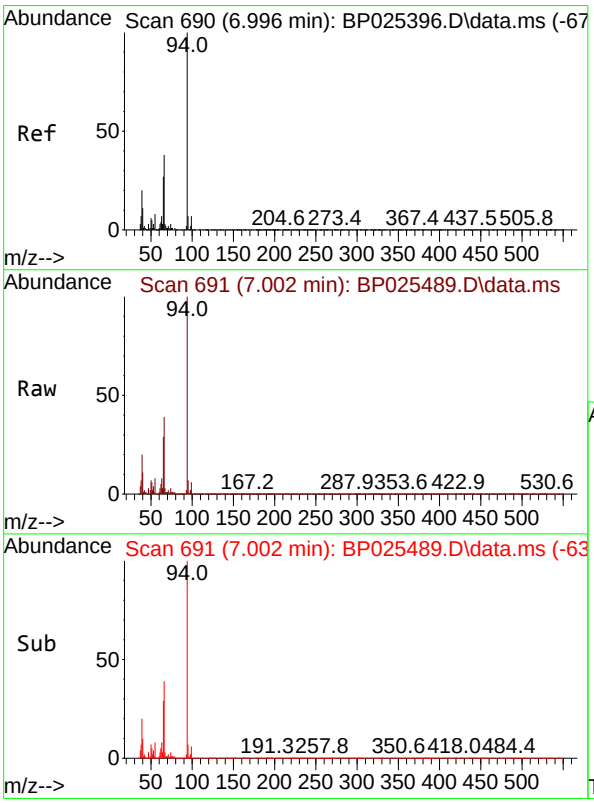
#9
Benzaldehyde
Concen: 28.274 ng
RT: 6.943 min Scan# 6
Delta R.T. 0.000 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Instrument :
BNA_P
ClientSampleId :
PB169242BS

Tgt Ion: 77 Resp: 192102

Ion	Ratio	Lower	Upper
77	100		
105	101.8	84.8	124.8
106	100.5	80.5	120.5

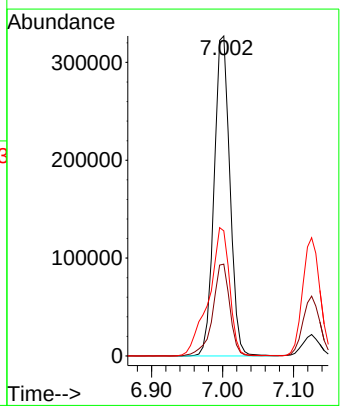


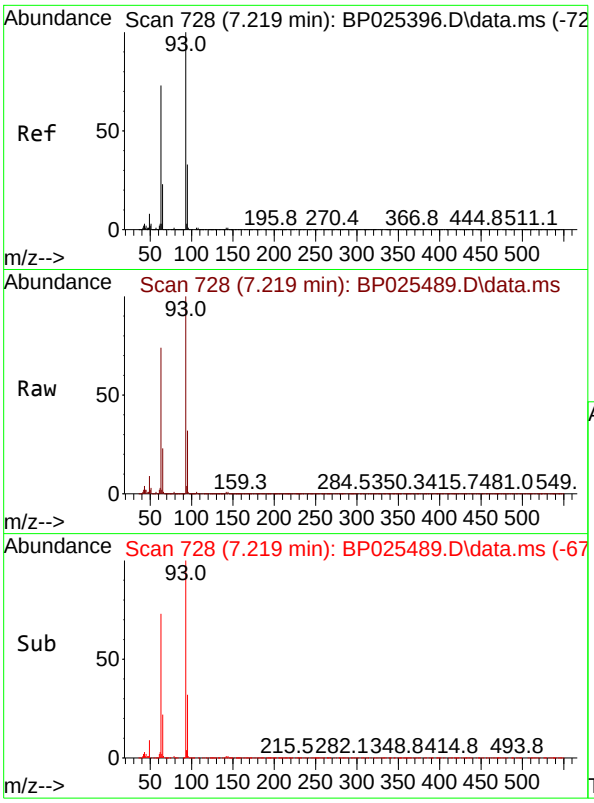


#10
Phenol
Concen: 49.488 ng
RT: 7.002 min Scan# 691
Delta R.T. 0.006 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Tgt Ion: 94 Resp: 503580

Ion	Ratio	Lower	Upper
94	100		
65	28.7	6.8	46.8
66	39.1	18.2	58.2



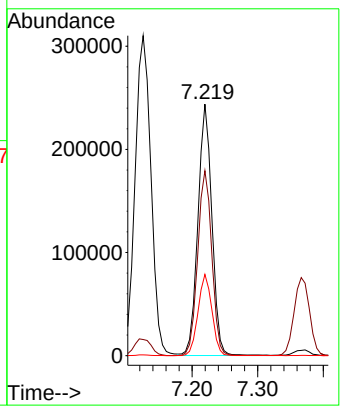


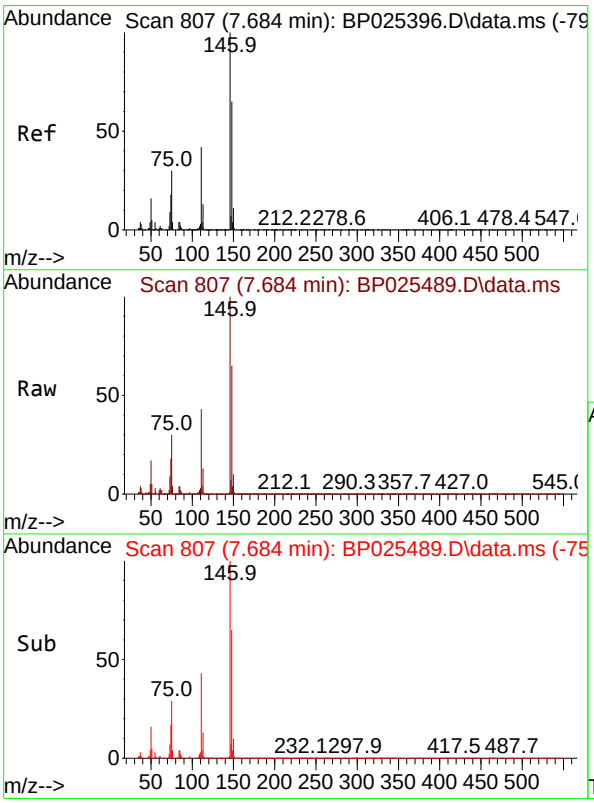
#11
bis(2-Chloroethyl)ether
Concen: 45.670 ng
RT: 7.219 min Scan# 7
Delta R.T. 0.000 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Instrument :
BNA_P
ClientSampleId :
PB169242BS

Tgt Ion: 93 Resp: 362223

Ion	Ratio	Lower	Upper
93	100		
63	73.5	52.6	92.6
95	32.3	12.7	52.7

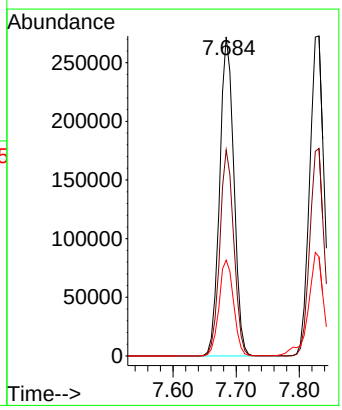


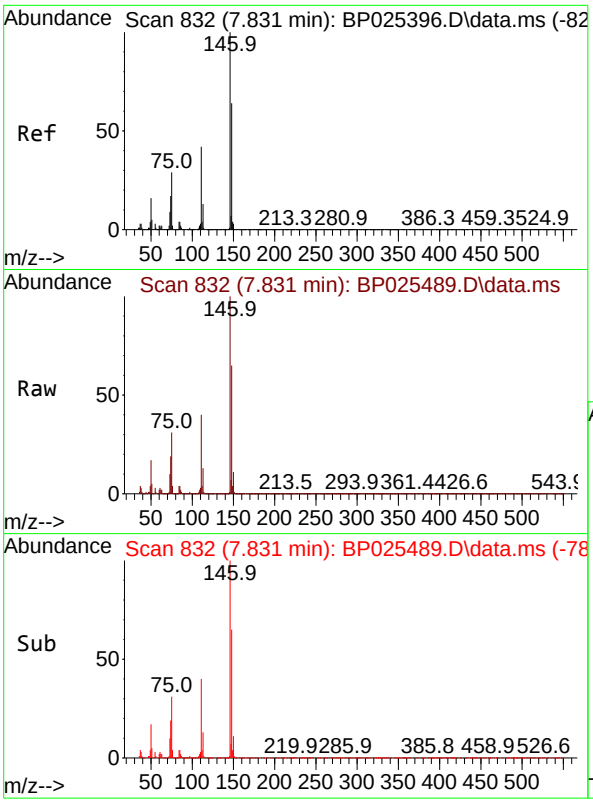


#12
1,3-Dichlorobenzene
Concen: 45.184 ng
RT: 7.684 min Scan# 807
Delta R.T. 0.000 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Tgt Ion:146 Resp: 425265

Ion	Ratio	Lower	Upper
146	100		
148	64.6	51.9	77.9
75	30.1	23.7	35.5



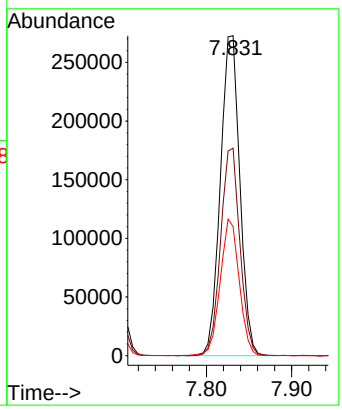


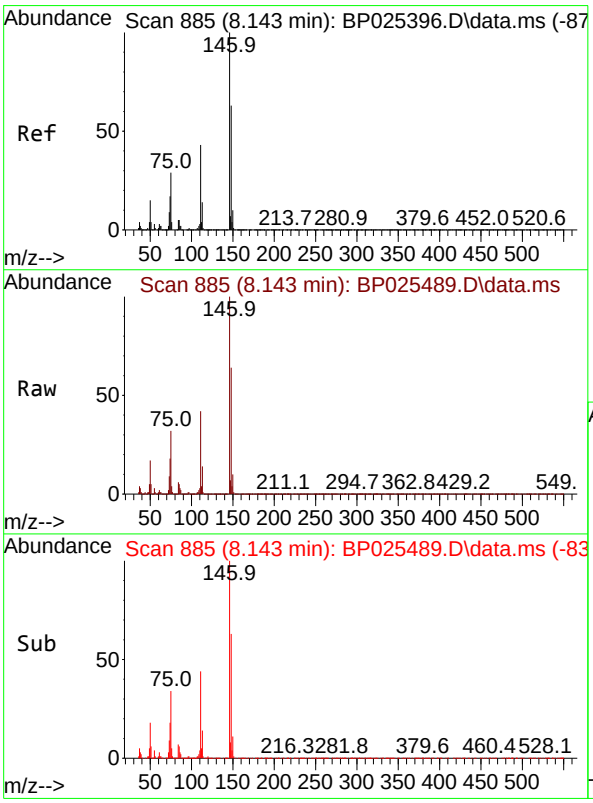
#13
1,4-Dichlorobenzene
Concen: 45.073 ng
RT: 7.831 min Scan# 8
Delta R.T. 0.000 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Instrument :
BNA_P
ClientSampleId :
PB169242BS

Tgt Ion:146 Resp: 433606

Ion	Ratio	Lower	Upper
146	100		
148	64.9	51.6	77.4
111	40.3	33.4	50.0

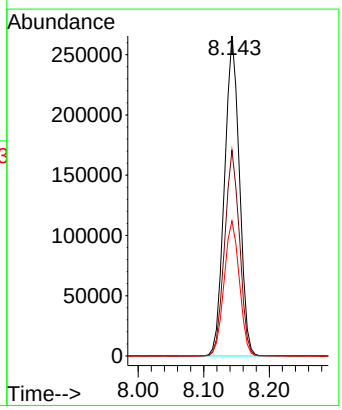


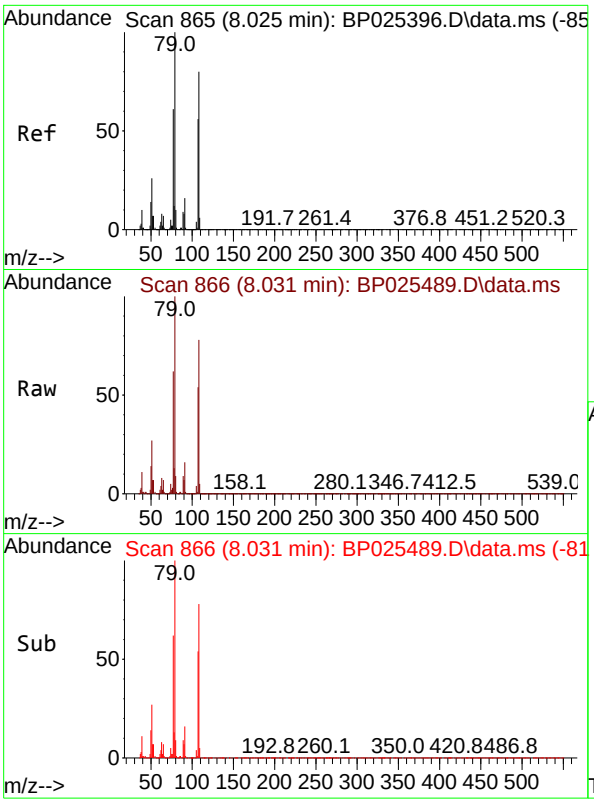


#14
1,2-Dichlorobenzene
Concen: 45.026 ng
RT: 8.143 min Scan# 885
Delta R.T. 0.000 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Tgt Ion:146 Resp: 419293

Ion	Ratio	Lower	Upper
146	100		
148	64.3	50.4	75.6
111	42.2	34.5	51.7



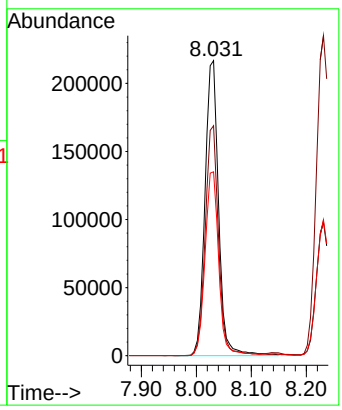


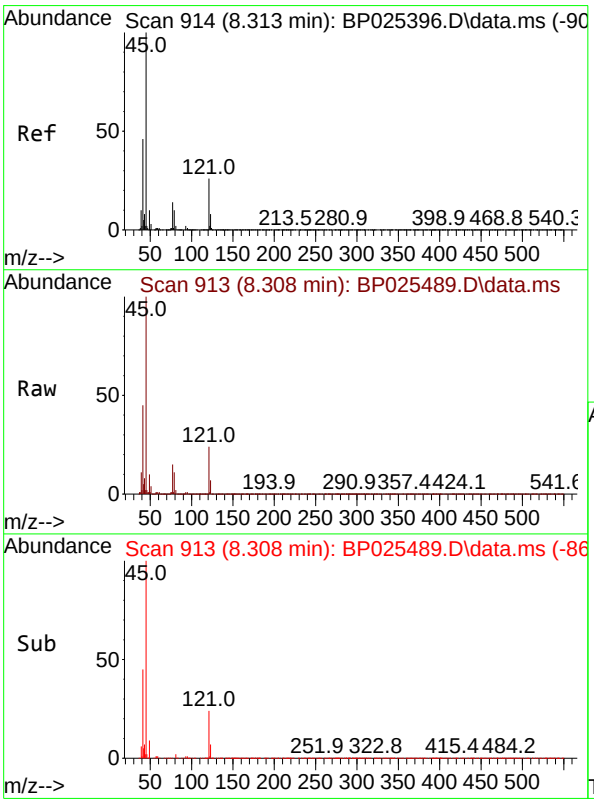
#15
Benzyl Alcohol
Concen: 48.221 ng
RT: 8.031 min Scan# 8
Delta R.T. 0.006 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Instrument :
BNA_P
ClientSampleId :
PB169242BS

Tgt Ion: 79 Resp: 371563

Ion	Ratio	Lower	Upper
79	100		
108	77.9	63.8	95.6
77	62.3	49.0	73.4

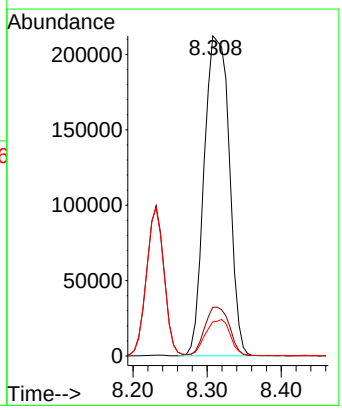


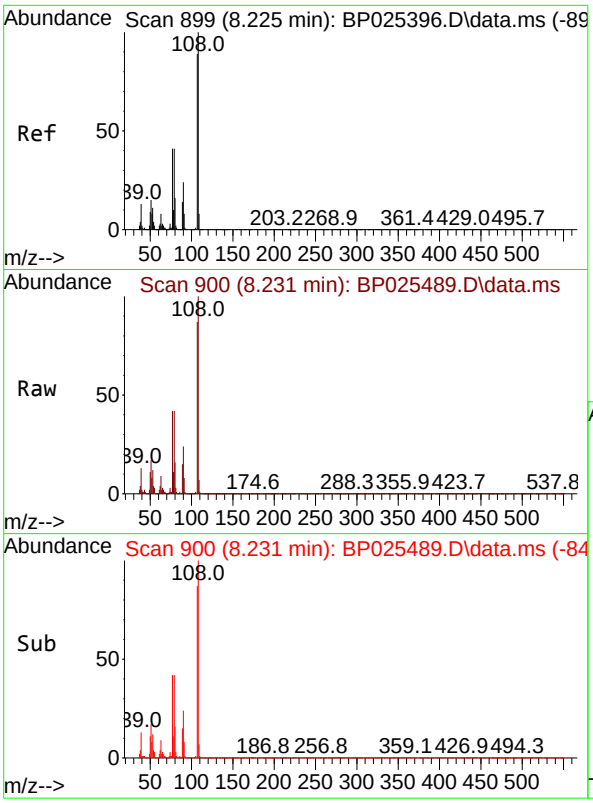


#16
2,2'-oxybis(1-Chloropropane)
Concen: 46.976 ng
RT: 8.308 min Scan# 913
Delta R.T. -0.006 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Tgt Ion: 45 Resp: 499110

Ion	Ratio	Lower	Upper
45	100		
77	15.2	0.0	35.3
79	10.6	0.0	31.8



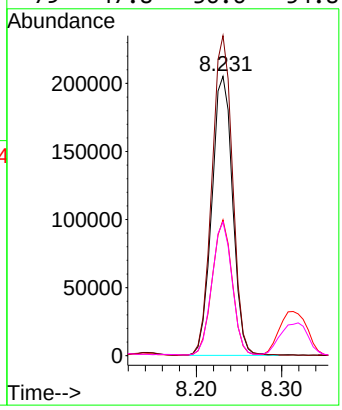


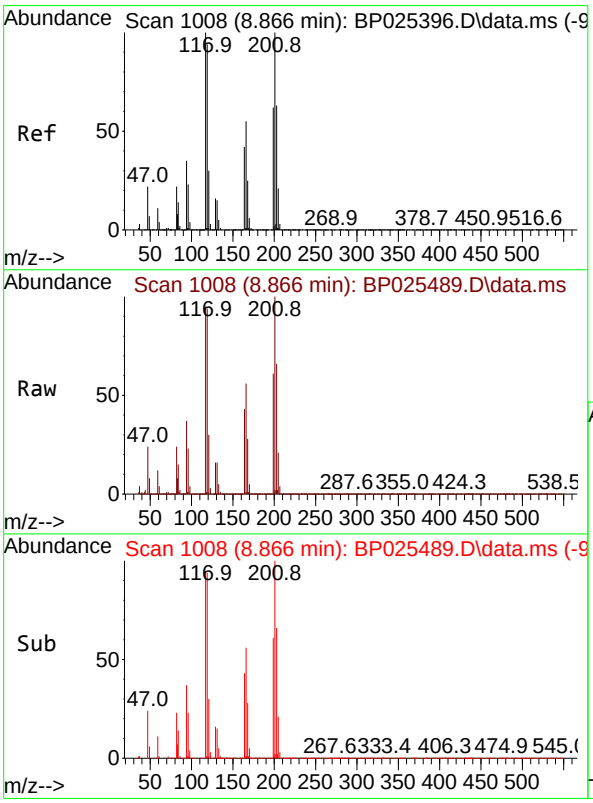
#17
2-Methylphenol
Concen: 49.197 ng
RT: 8.231 min Scan# 9
Delta R.T. 0.006 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Instrument :
BNA_P
ClientSampleId :
PB169242BS

Tgt Ion:107 Resp: 347697

Ion	Ratio	Lower	Upper
107	100		
108	114.5	89.4	134.0
77	48.6	36.3	54.5
79	47.8	36.6	54.8

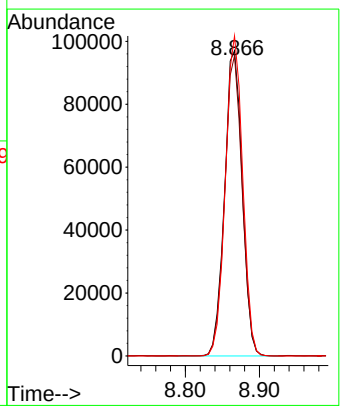


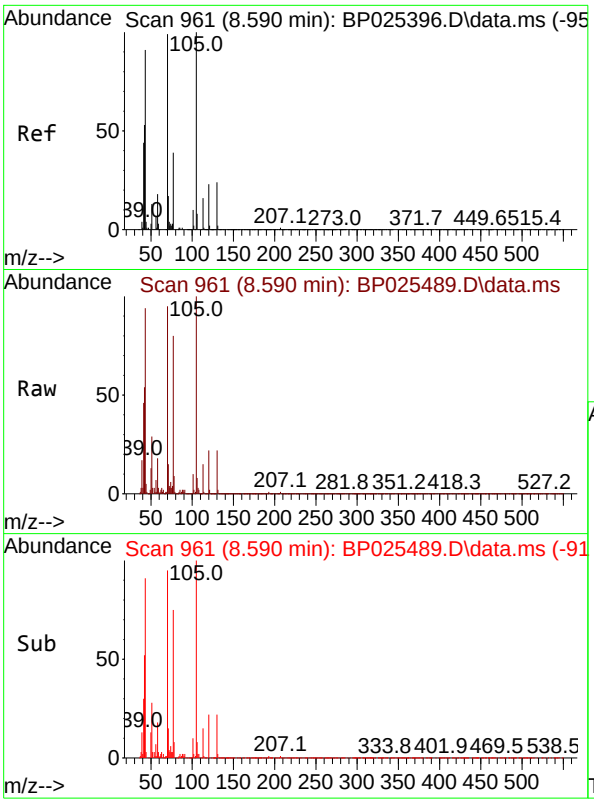


#18
Hexachloroethane
Concen: 45.510 ng
RT: 8.866 min Scan# 1008
Delta R.T. 0.000 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Tgt Ion:117 Resp: 160973

Ion	Ratio	Lower	Upper
117	100		
119	98.4	75.1	112.7
201	104.8	80.1	120.1



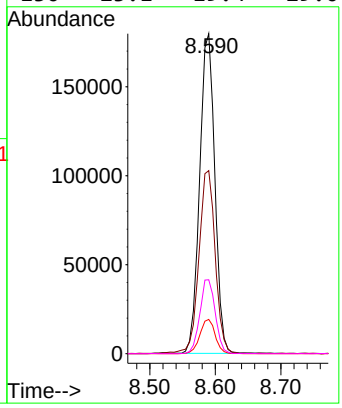


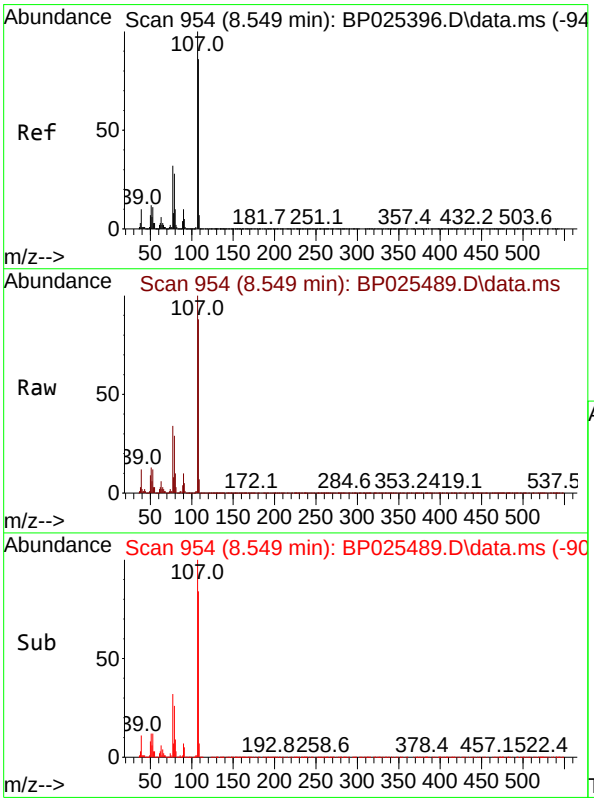
#19
n-Nitroso-di-n-propylamine
Concen: 45.130 ng
RT: 8.590 min Scan# 9
Delta R.T. 0.000 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Instrument :
BNA_P
ClientSampleId :
PB169242BS

Tgt Ion: 70 Resp: 289898

Ion	Ratio	Lower	Upper
70	100		
42	57.2	43.8	65.6
101	10.7	8.5	12.7
130	23.1	19.4	29.0

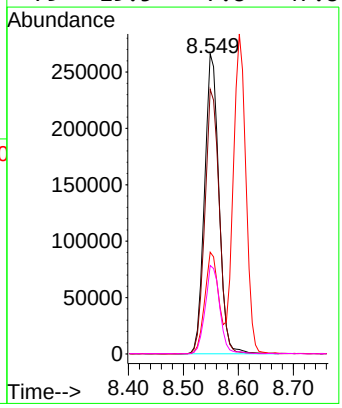


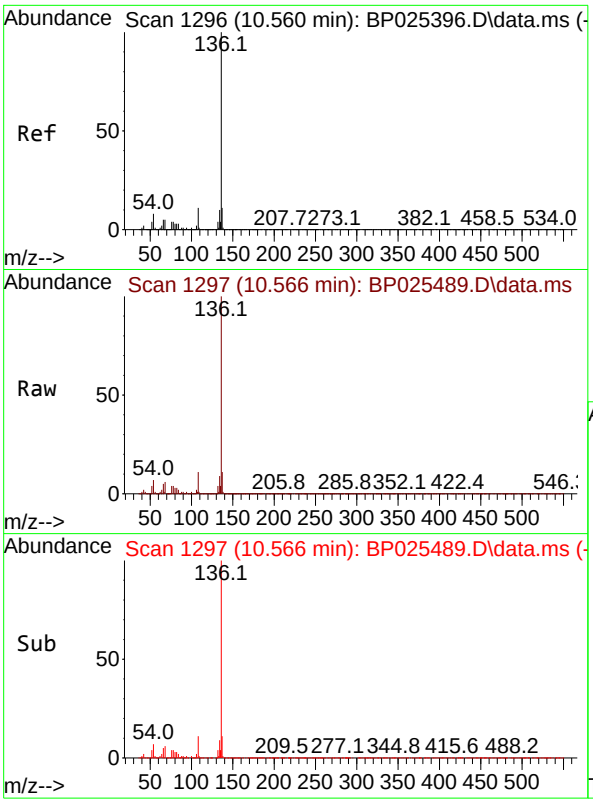


#20
3+4-Methylphenols
Concen: 49.386 ng
RT: 8.549 min Scan# 954
Delta R.T. 0.000 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Tgt Ion:107 Resp: 483810

Ion	Ratio	Lower	Upper
107	100		
108	88.2	66.3	106.3
77	33.9	12.3	52.3
79	29.5	7.8	47.8



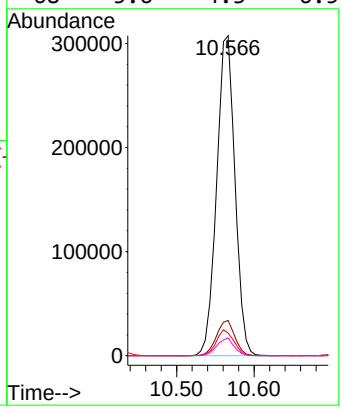


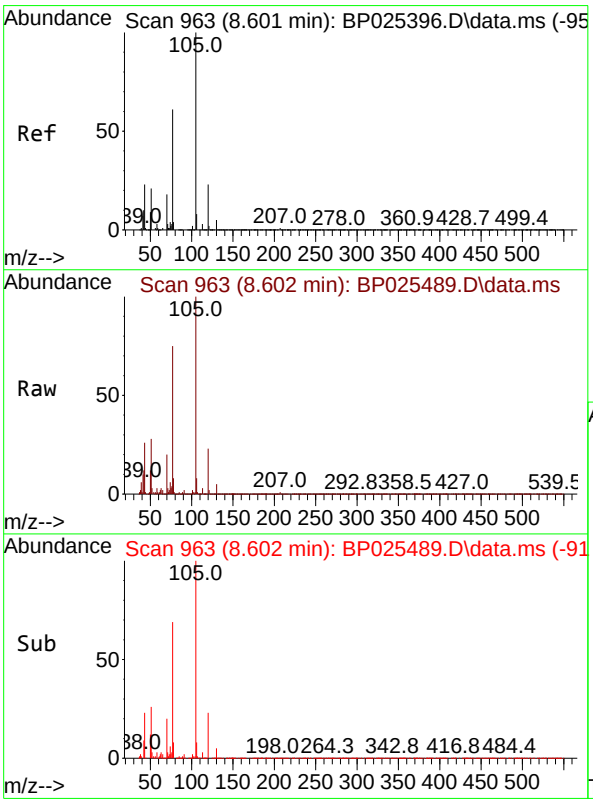
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.566 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Instrument :
BNA_P
ClientSampleId :
PB169242BS

Tgt Ion:136 Resp: 505871

Ion	Ratio	Lower	Upper
136	100		
137	11.0	9.2	13.8
54	7.0	6.0	9.0
68	5.6	4.3	6.5

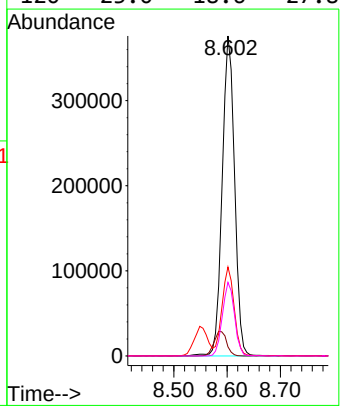


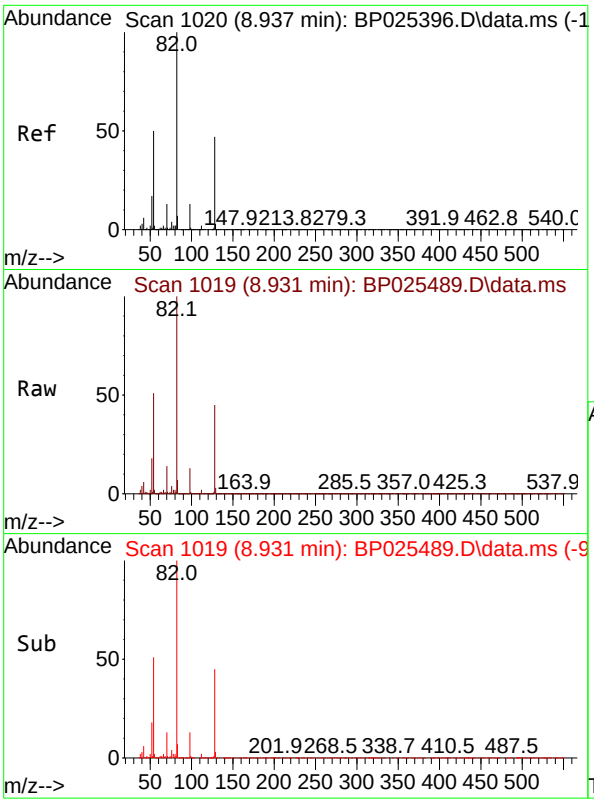


#22
Acetophenone
Concen: 47.846 ng
RT: 8.602 min Scan# 963
Delta R.T. 0.000 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Tgt Ion:105 Resp: 606991

Ion	Ratio	Lower	Upper
105	100		
71	2.9	2.6	4.0
51	27.8	20.6	30.8
120	23.0	18.6	27.8



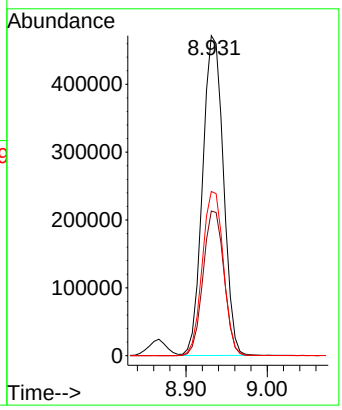


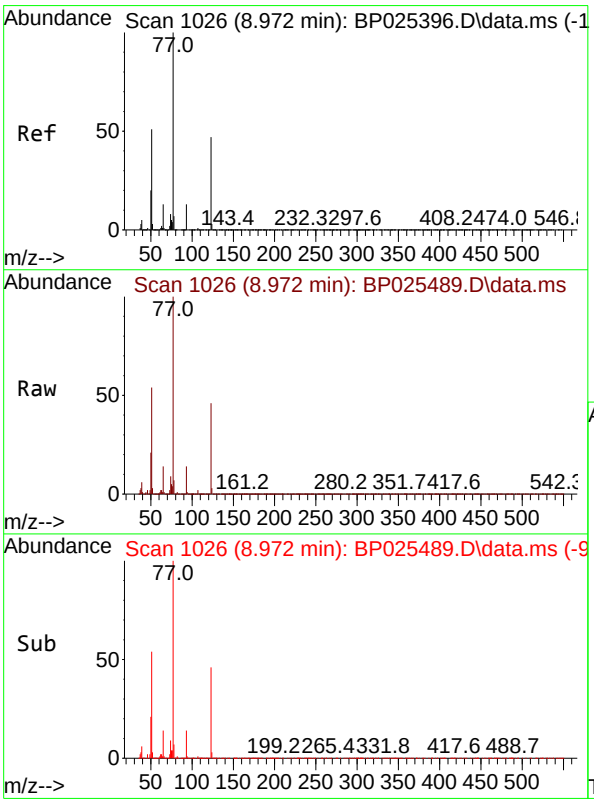
#23
Nitrobenzene-d5
Concen: 83.831 ng
RT: 8.931 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Instrument :
BNA_P
ClientSampleId :
PB169242BS

Tgt Ion: 82 Resp: 838338

Ion	Ratio	Lower	Upper
82	100		
128	45.2	37.7	56.5
54	51.3	39.8	59.6

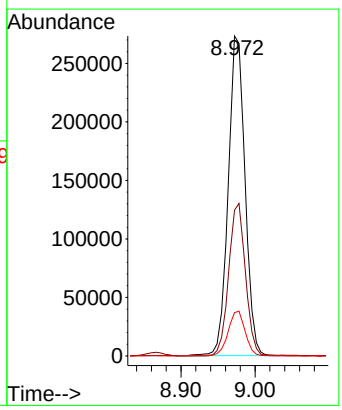


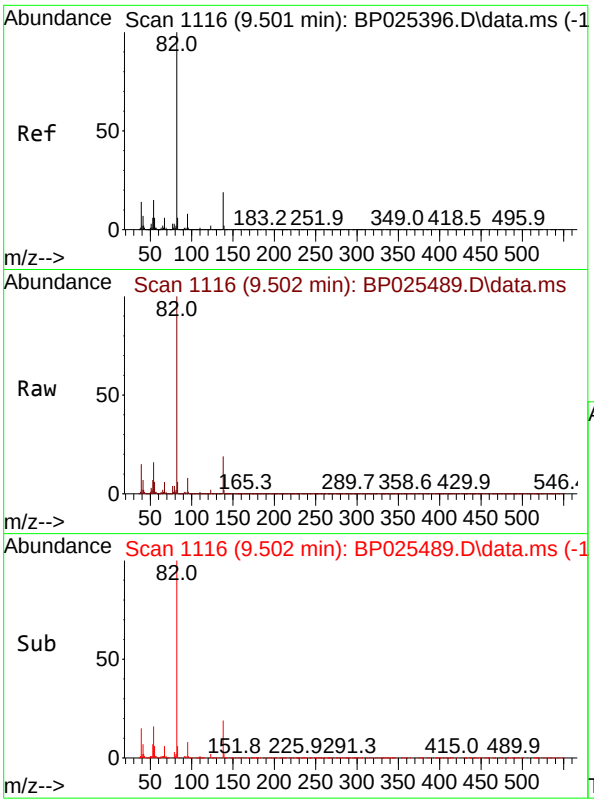


#24
Nitrobenzene
Concen: 48.138 ng
RT: 8.972 min Scan# 1026
Delta R.T. 0.000 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Tgt Ion: 77 Resp: 430234

Ion	Ratio	Lower	Upper
77	100		
123	45.6	38.6	58.0
65	13.6	10.6	15.8



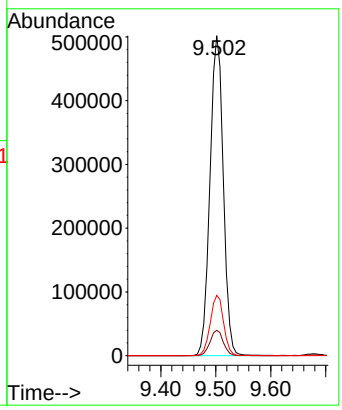


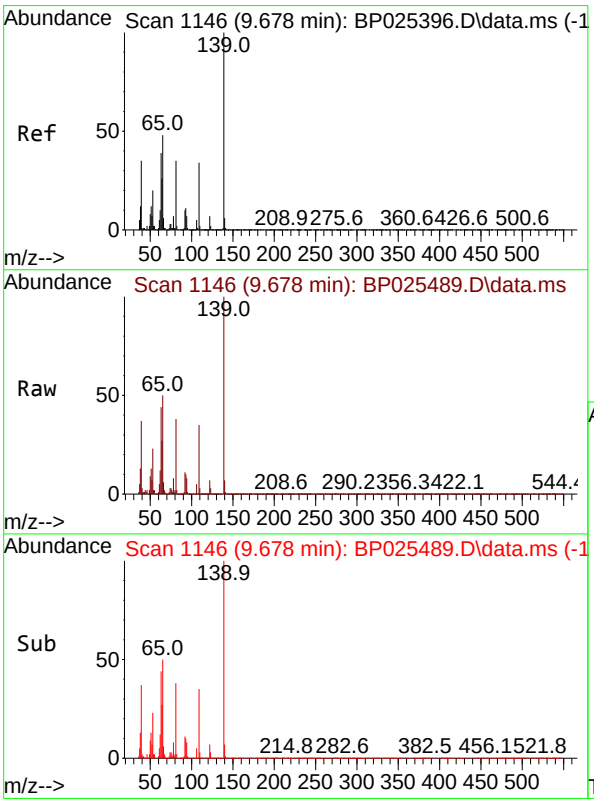
#25
Isophorone
Concen: 47.689 ng
RT: 9.502 min Scan# 11
Delta R.T. 0.000 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Instrument :
BNA_P
ClientSampleId :
PB169242BS

Tgt Ion: 82 Resp: 843994

Ion	Ratio	Lower	Upper
82	100		
95	7.9	6.4	9.6
138	18.9	15.4	23.0

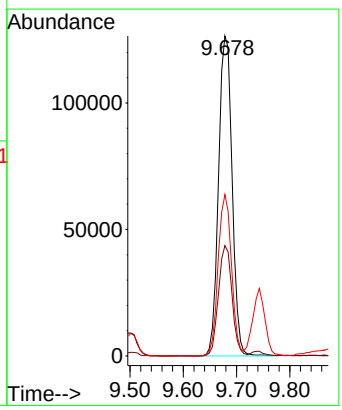


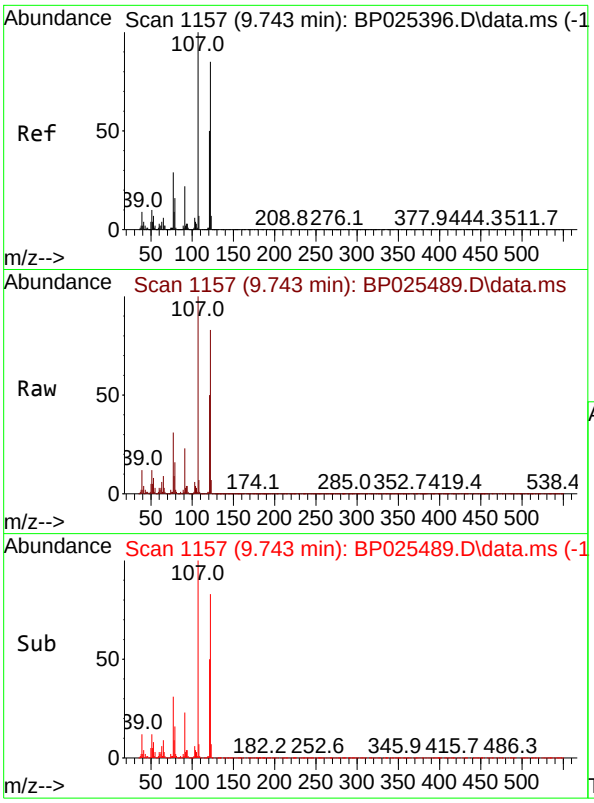


#26
2-Nitrophenol
Concen: 48.804 ng
RT: 9.678 min Scan# 1146
Delta R.T. 0.000 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Tgt Ion:139 Resp: 223852

Ion	Ratio	Lower	Upper
139	100		
109	34.5	26.9	40.3
65	50.5	38.3	57.5



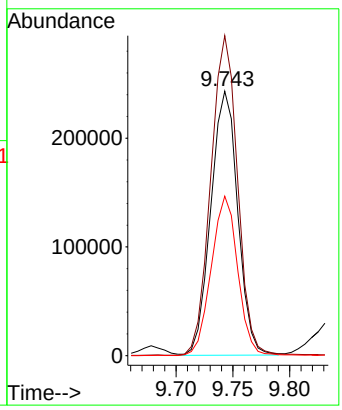


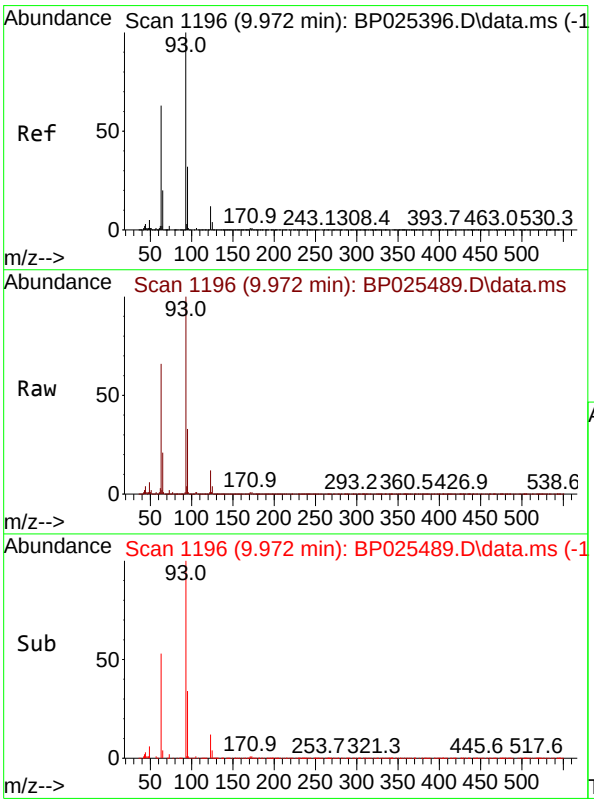
#27
2,4-Dimethylphenol
Concen: 50.831 ng
RT: 9.743 min Scan# 11
Delta R.T. 0.000 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Instrument :
BNA_P
ClientSampleId :
PB169242BS

Tgt Ion:122 Resp: 400946

Ion	Ratio	Lower	Upper
122	100		
107	121.0	93.7	140.5
121	60.3	46.6	69.8

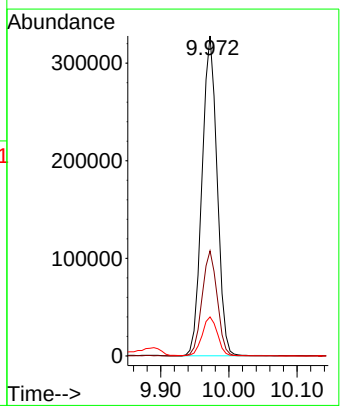


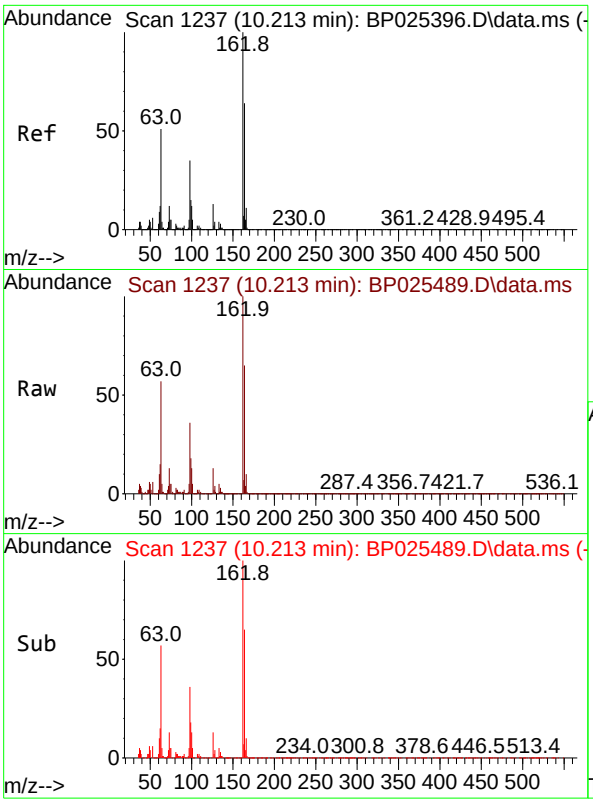


#28
bis(2-Chloroethoxy)methane
Concen: 47.229 ng
RT: 9.972 min Scan# 1196
Delta R.T. 0.000 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Tgt Ion: 93 Resp: 505254

Ion	Ratio	Lower	Upper
93	100		
95	32.9	25.4	38.0
123	12.2	9.4	14.0



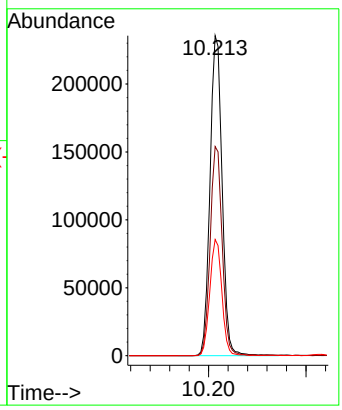


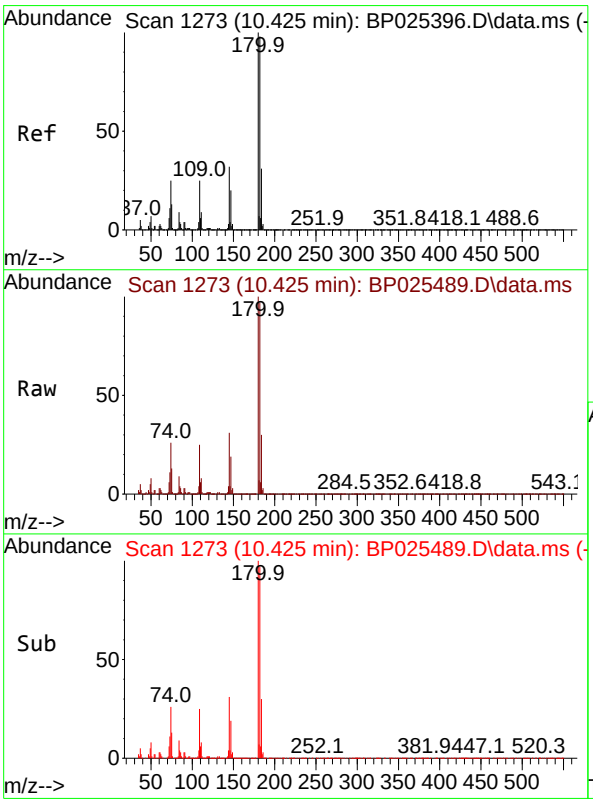
#29
2,4-Dichlorophenol
Concen: 51.589 ng
RT: 10.213 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Instrument :
BNA_P
ClientSampleId :
PB169242BS

Tgt Ion:162 Resp: 404232

Ion	Ratio	Lower	Upper
162	100		
164	65.4	44.4	84.4
98	36.3	14.9	54.9

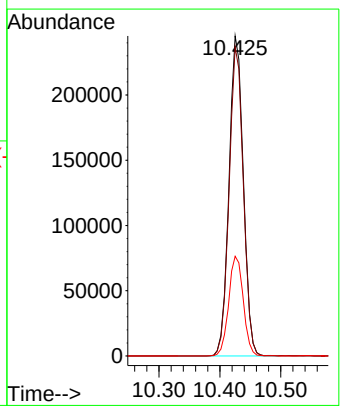


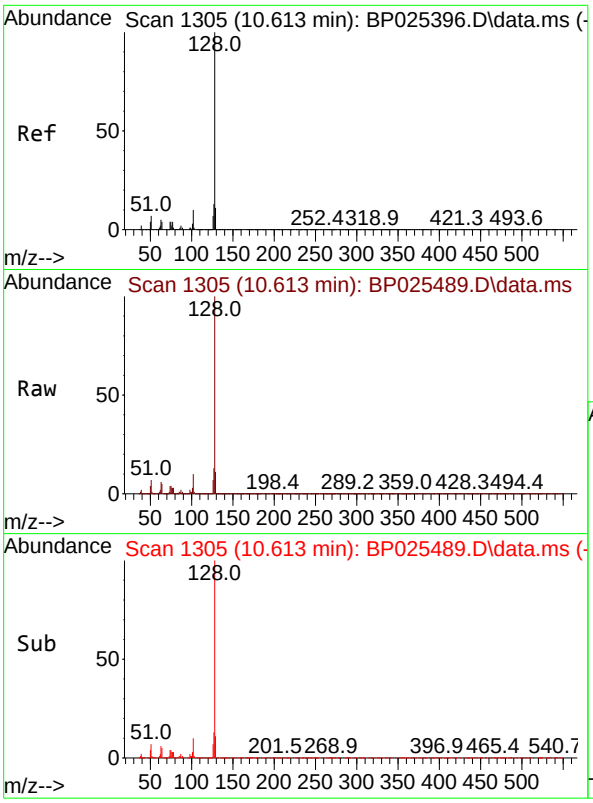


#30
1,2,4-Trichlorobenzene
Concen: 46.732 ng
RT: 10.425 min Scan# 1273
Delta R.T. 0.000 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Tgt Ion:180 Resp: 401415

Ion	Ratio	Lower	Upper
180	100		
182	96.5	78.0	117.0
145	31.1	25.9	38.9



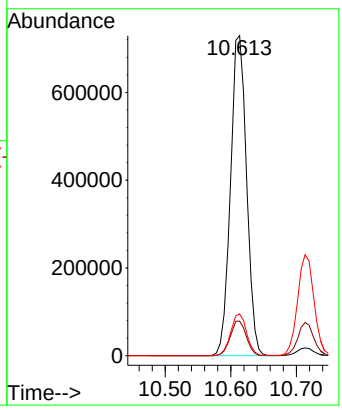


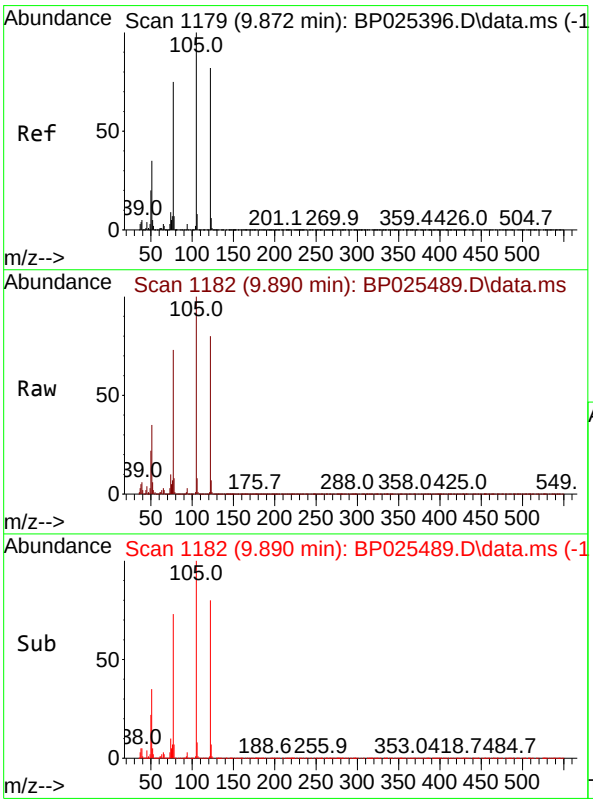
#31
Naphthalene
Concen: 47.331 ng
RT: 10.613 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Instrument :
BNA_P
ClientSampleId :
PB169242BS

Tgt Ion:128 Resp: 1244457

Ion	Ratio	Lower	Upper
128	100		
129	10.8	8.6	13.0
127	13.1	10.7	16.1

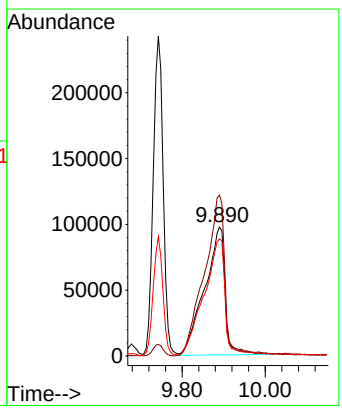


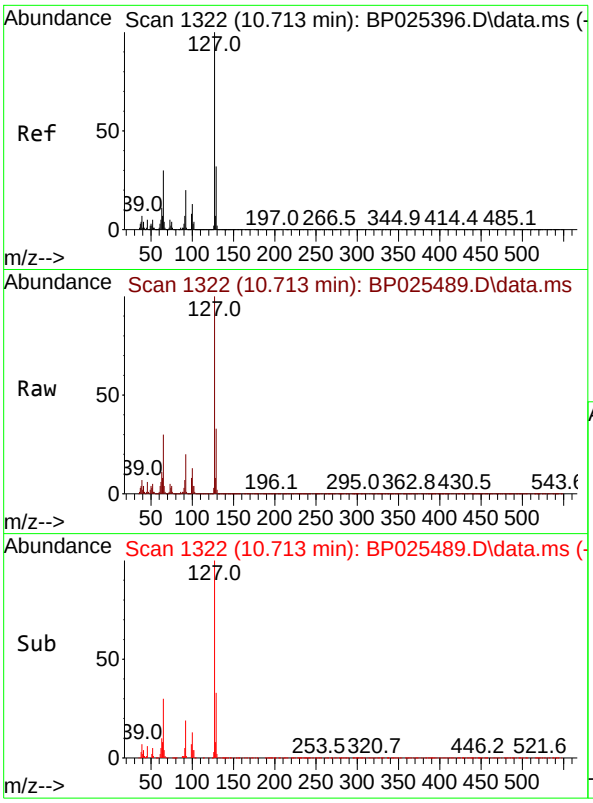


#32
Benzoic acid
Concen: 56.986 ng
RT: 9.890 min Scan# 1182
Delta R.T. 0.018 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Tgt Ion:122 Resp: 331854

Ion	Ratio	Lower	Upper
122	100		
105	124.9	100.6	140.6
77	90.9	71.5	111.5



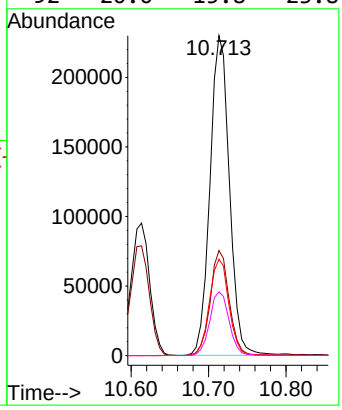


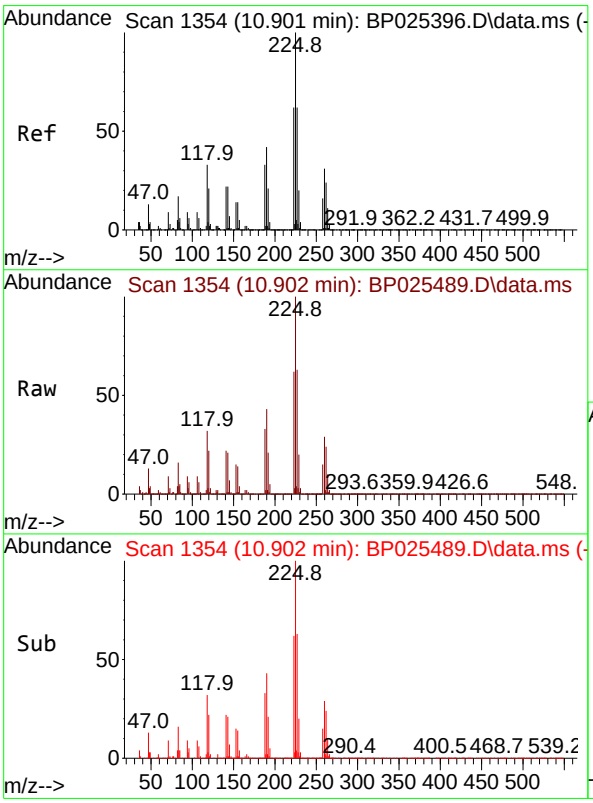
#33
4-Chloroaniline
Concen: 34.569 ng
RT: 10.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Instrument :
BNA_P
ClientSampleId :
PB169242BS

Tgt Ion:127 Resp: 401484

Ion	Ratio	Lower	Upper
127	100		
129	32.8	25.4	38.2
65	30.2	23.8	35.6
92	20.0	15.8	23.8

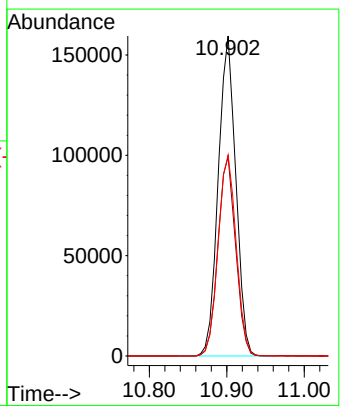


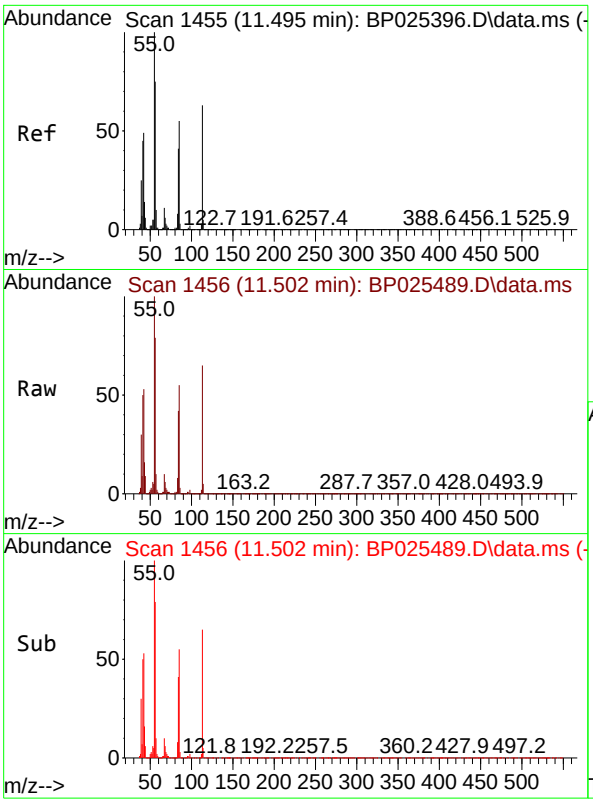


#34
Hexachlorobutadiene
Concen: 46.960 ng
RT: 10.902 min Scan# 1354
Delta R.T. 0.000 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Tgt Ion:225 Resp: 251210

Ion	Ratio	Lower	Upper
225	100		
223	62.2	50.0	75.0
227	62.8	49.7	74.5



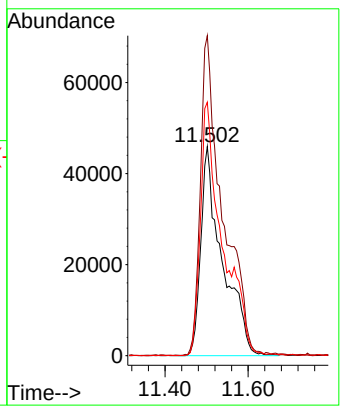


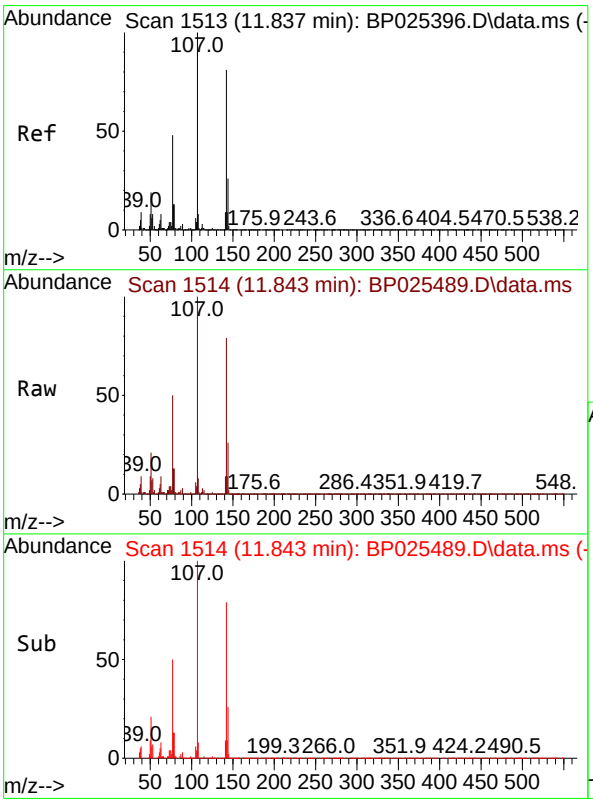
#35
Caprolactam
Concen: 57.557 ng
RT: 11.502 min Scan# 14
Delta R.T. 0.006 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Instrument :
BNA_P
ClientSampleId :
PB169242BS

Tgt Ion:113 Resp: 165373

Ion	Ratio	Lower	Upper
113	100		
55	153.1	140.0	180.0
56	121.2	100.0	140.0

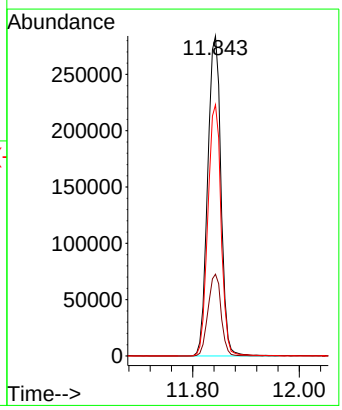


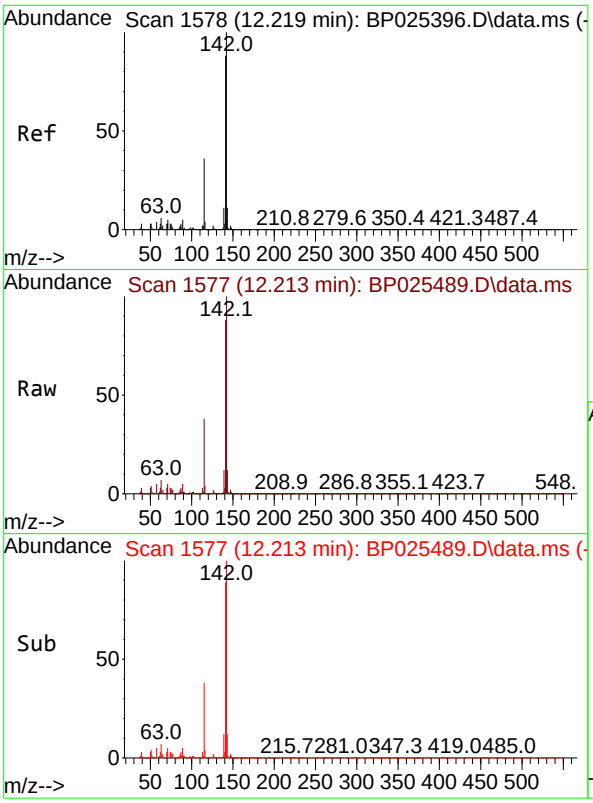


#36
4-Chloro-3-methylphenol
Concen: 54.429 ng
RT: 11.843 min Scan# 1514
Delta R.T. 0.006 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Tgt Ion:107 Resp: 489388

Ion	Ratio	Lower	Upper
107	100		
144	25.6	21.0	31.4
142	78.5	64.6	97.0



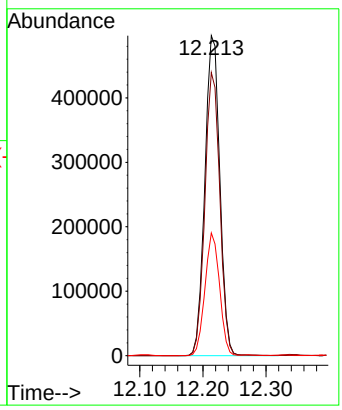


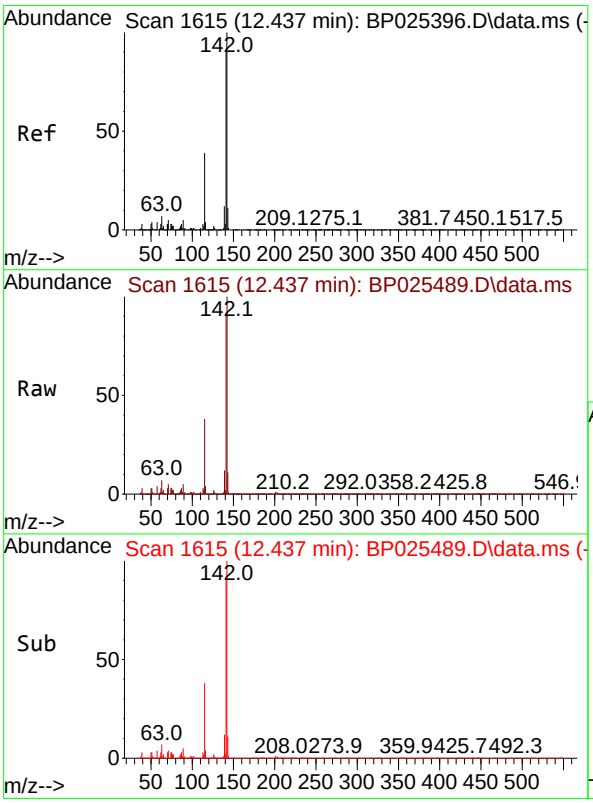
#37
2-Methylnaphthalene
Concen: 47.734 ng
RT: 12.213 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Instrument :
BNA_P
ClientSampleId :
PB169242BS

Tgt Ion:142 Resp: 816767

Ion	Ratio	Lower	Upper
142	100		
141	88.5	70.3	105.5
115	38.4	28.9	43.3

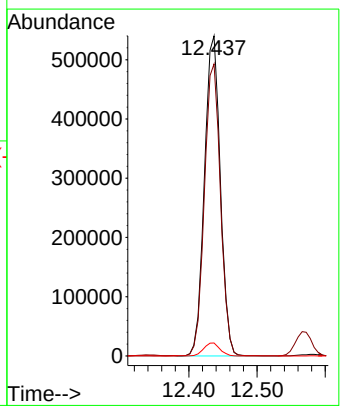


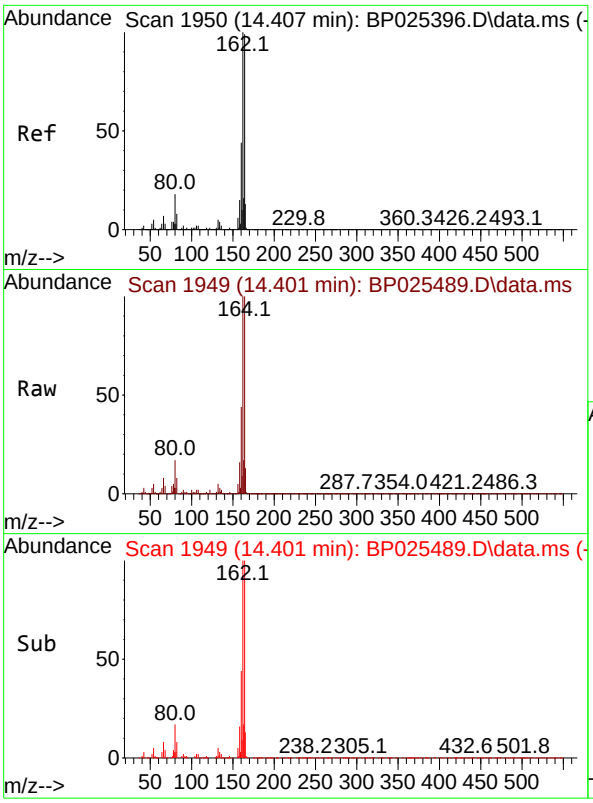


#38
1-Methylnaphthalene
Concen: 48.086 ng
RT: 12.437 min Scan# 1615
Delta R.T. 0.000 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Tgt Ion:142 Resp: 875005

Ion	Ratio	Lower	Upper
142	100		
141	91.3	73.1	109.7
116	4.0	3.2	4.8



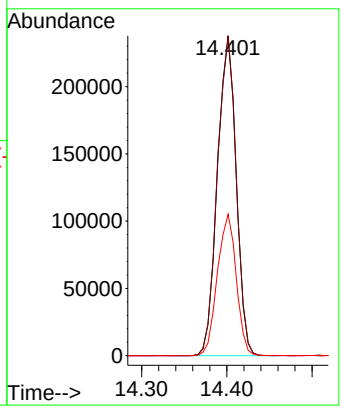


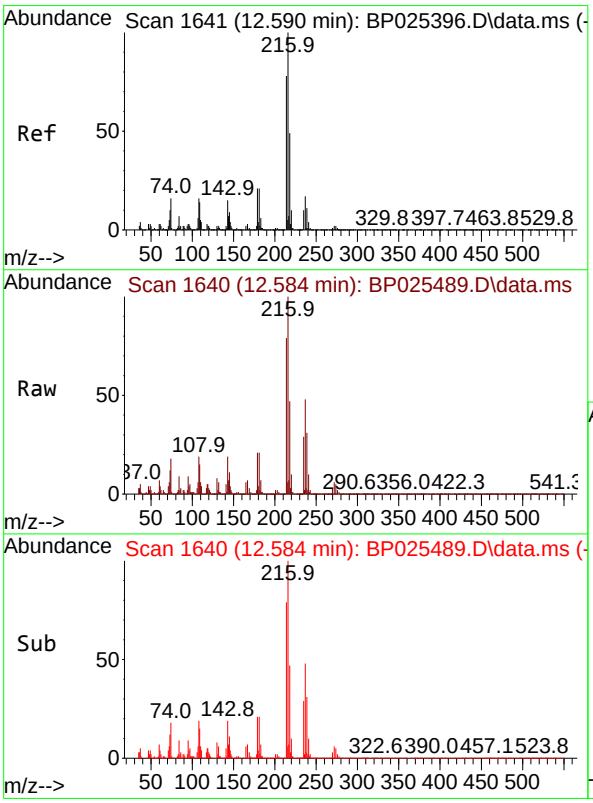
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.401 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Instrument :
BNA_P
ClientSampleId :
PB169242BS

Tgt Ion:164 Resp: 363724

Ion	Ratio	Lower	Upper
164	100		
162	99.9	81.0	121.6
160	44.2	35.4	53.2

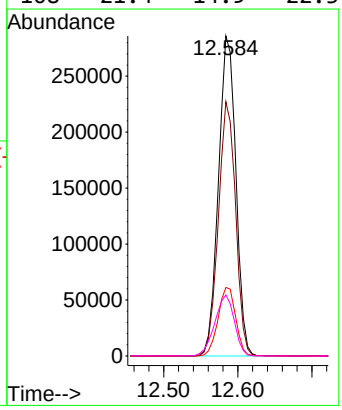


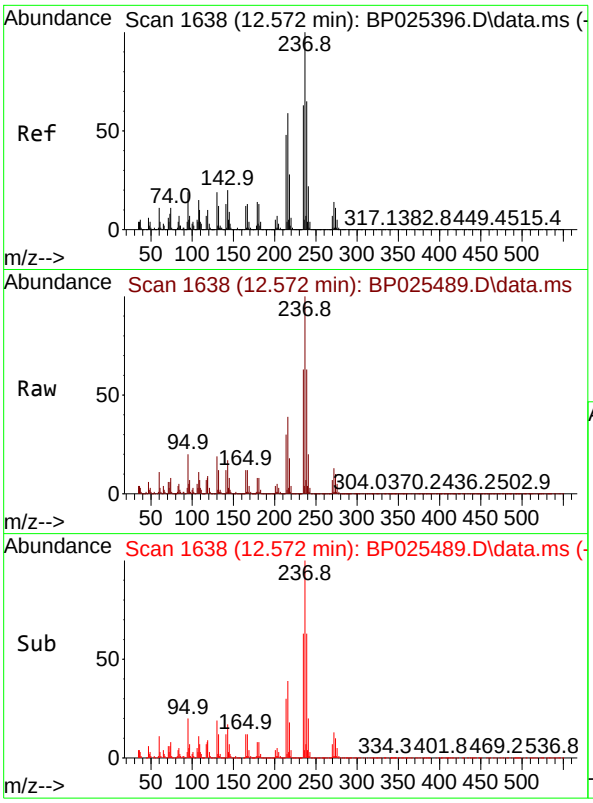


#40
1,2,4,5-Tetrachlorobenzene
Concen: 44.429 ng
RT: 12.584 min Scan# 1640
Delta R.T. -0.006 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Tgt Ion:216 Resp: 466718

Ion	Ratio	Lower	Upper
216	100		
214	78.7	63.0	94.4
179	21.7	17.1	25.7
108	21.4	14.9	22.3



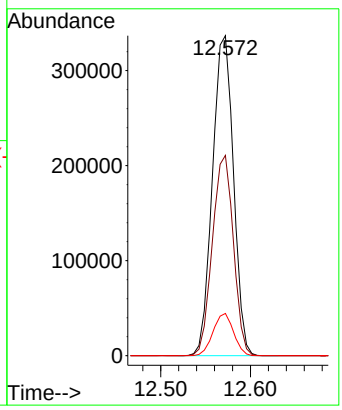


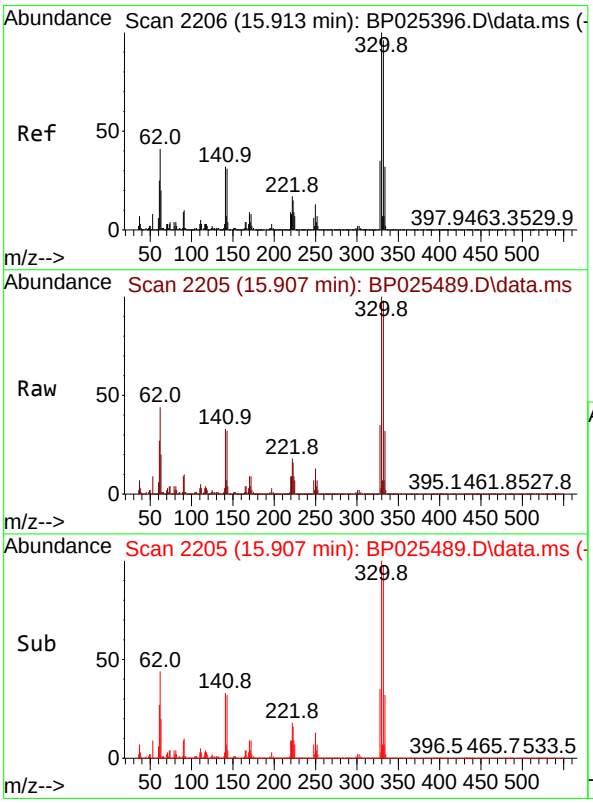
#41
Hexachlorocyclopentadiene
Concen: 86.335 ng
RT: 12.572 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Instrument :
BNA_P
ClientSampleId :
PB169242BS

Tgt Ion:237 Resp: 547819

Ion	Ratio	Lower	Upper
237	100		
235	62.6	42.7	82.7
272	13.2	0.0	34.0

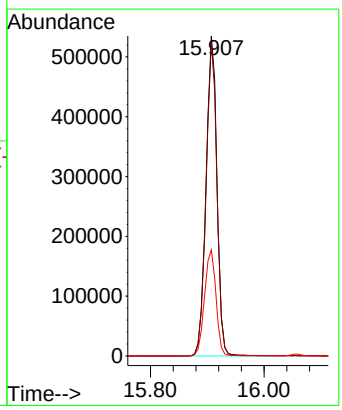


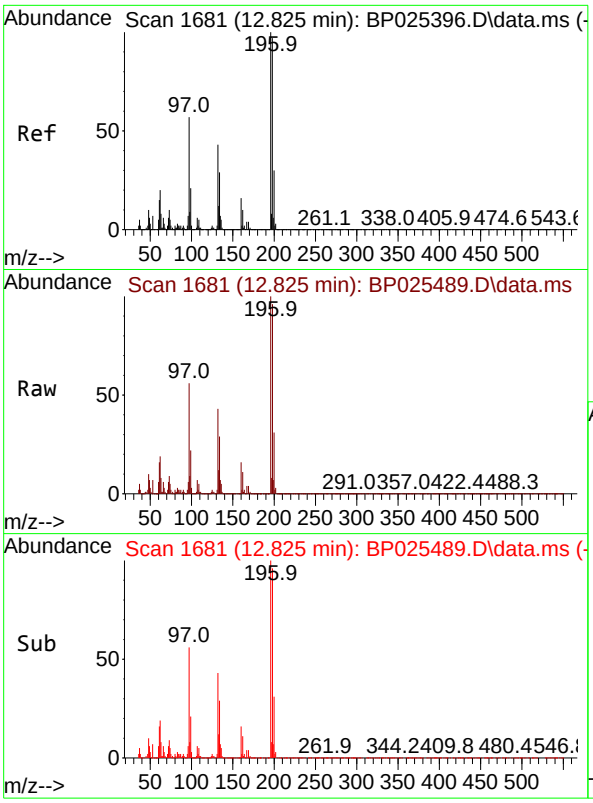


#42
2,4,6-Tribromophenol
Concen: 145.325 ng
RT: 15.907 min Scan# 2205
Delta R.T. -0.006 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Tgt Ion:330 Resp: 711475

Ion	Ratio	Lower	Upper
330	100		
332	97.4	77.3	115.9
141	34.8	26.6	39.8



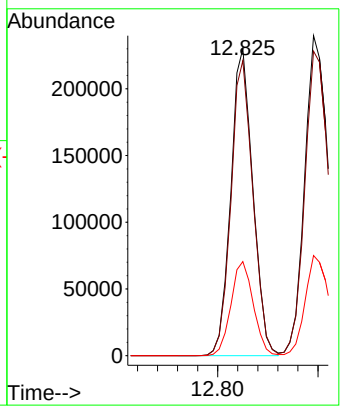


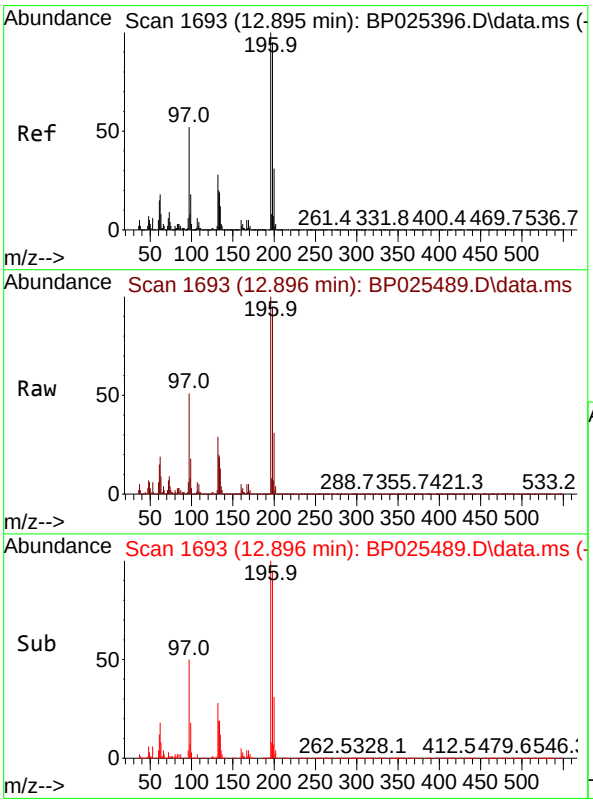
#43
2,4,6-Trichlorophenol
Concen: 49.497 ng
RT: 12.825 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Instrument :
BNA_P
ClientSampleId :
PB169242BS

Tgt Ion:196 Resp: 351027

Ion	Ratio	Lower	Upper
196	100		
198	96.1	77.2	115.8
200	30.6	23.9	35.9

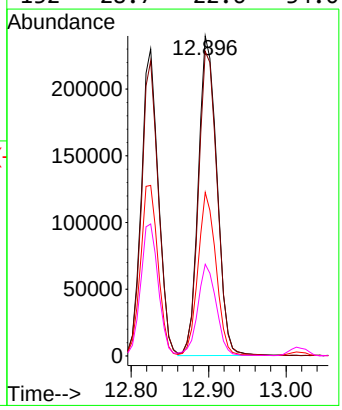


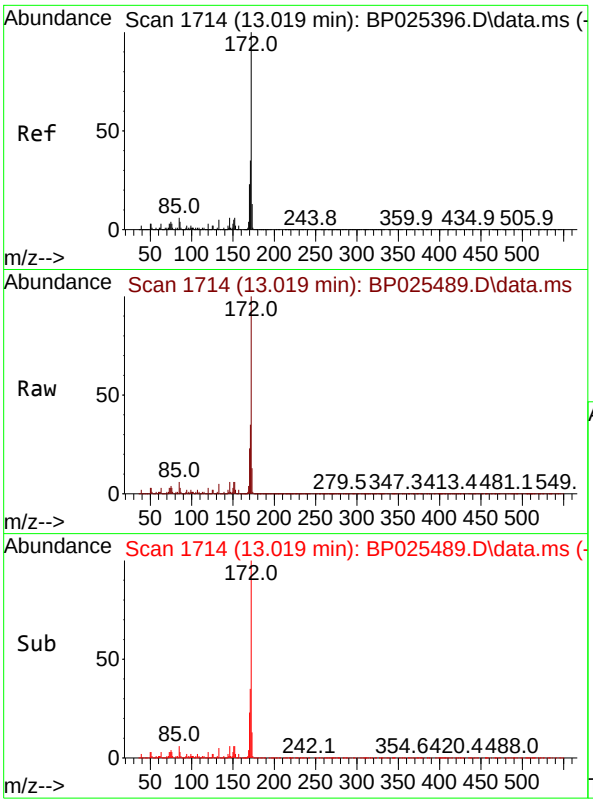


#44
2,4,5-Trichlorophenol
Concen: 51.255 ng
RT: 12.896 min Scan# 1693
Delta R.T. 0.000 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Tgt Ion:196 Resp: 398379

Ion	Ratio	Lower	Upper
196	100		
198	95.1	76.2	114.2
97	51.1	41.2	61.8
132	28.7	22.6	34.0



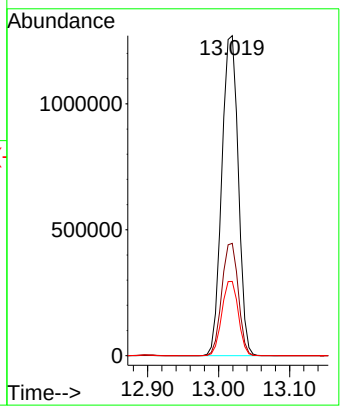


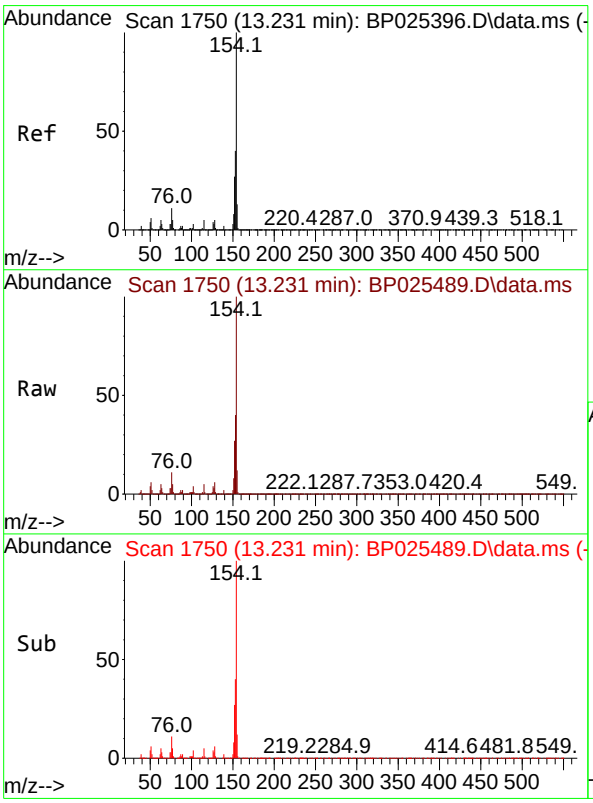
#45
2-Fluorobiphenyl
Concen: 76.836 ng
RT: 13.019 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Instrument :
BNA_P
ClientSampleId :
PB169242BS

Tgt Ion:172 Resp: 2044889

Ion	Ratio	Lower	Upper
172	100		
171	35.1	28.1	42.1
170	23.2	18.6	28.0

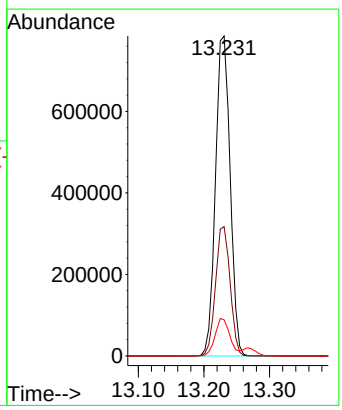


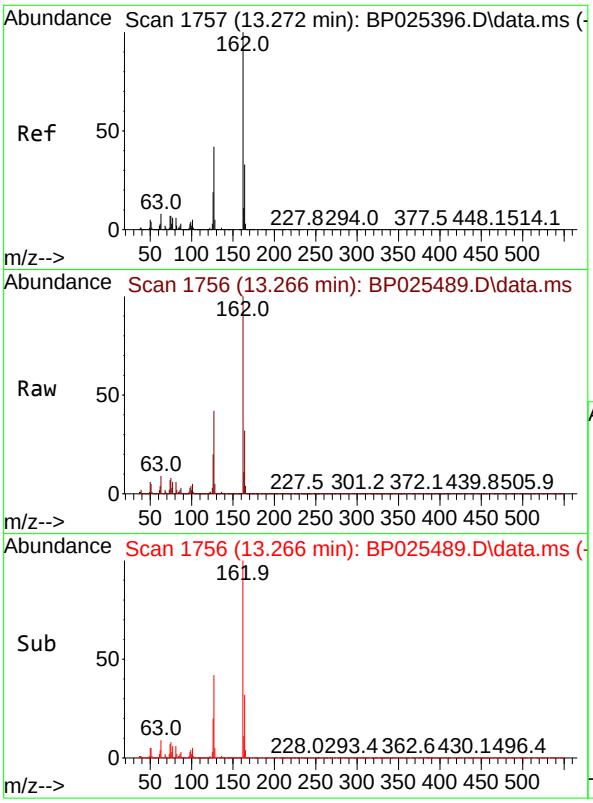


#46
1,1'-Biphenyl
Concen: 45.928 ng
RT: 13.231 min Scan# 1750
Delta R.T. 0.000 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Tgt Ion:154 Resp: 1213211

Ion	Ratio	Lower	Upper
154	100		
153	40.4	19.5	59.5
76	11.3	0.0	31.1



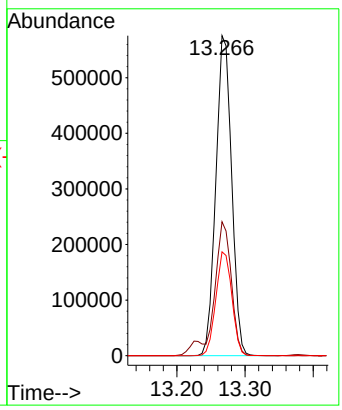


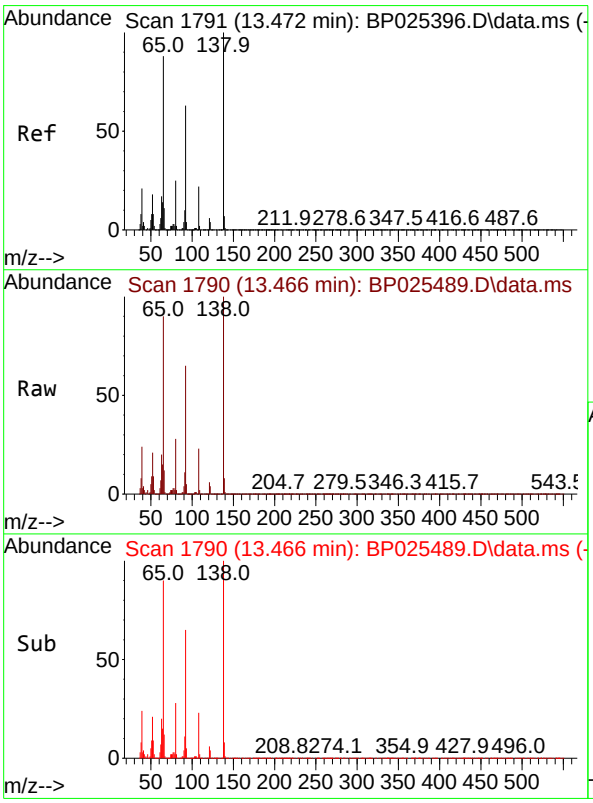
#47
2-Chloronaphthalene
Concen: 45.143 ng
RT: 13.266 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Instrument :
BNA_P
ClientSampleId :
PB169242BS

Tgt Ion:162 Resp: 928328

Ion	Ratio	Lower	Upper
162	100		
127	41.8	33.4	50.2
164	32.5	26.2	39.2

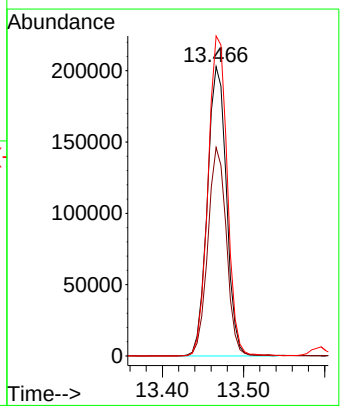


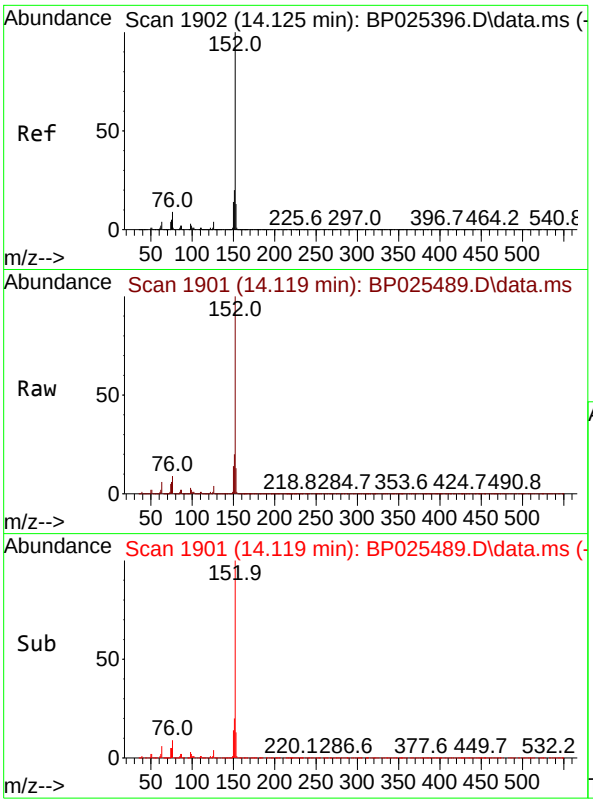


#48
2-Nitroaniline
Concen: 55.264 ng
RT: 13.466 min Scan# 1790
Delta R.T. -0.006 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Tgt Ion: 65 Resp: 331140

Ion	Ratio	Lower	Upper
65	100		
92	72.1	57.6	86.4
138	110.6	91.0	136.6



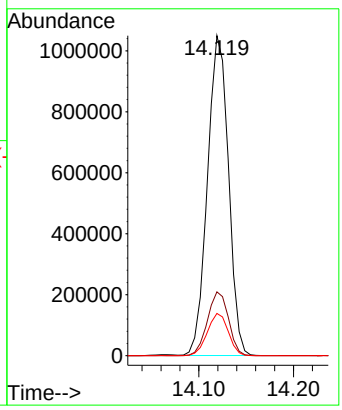


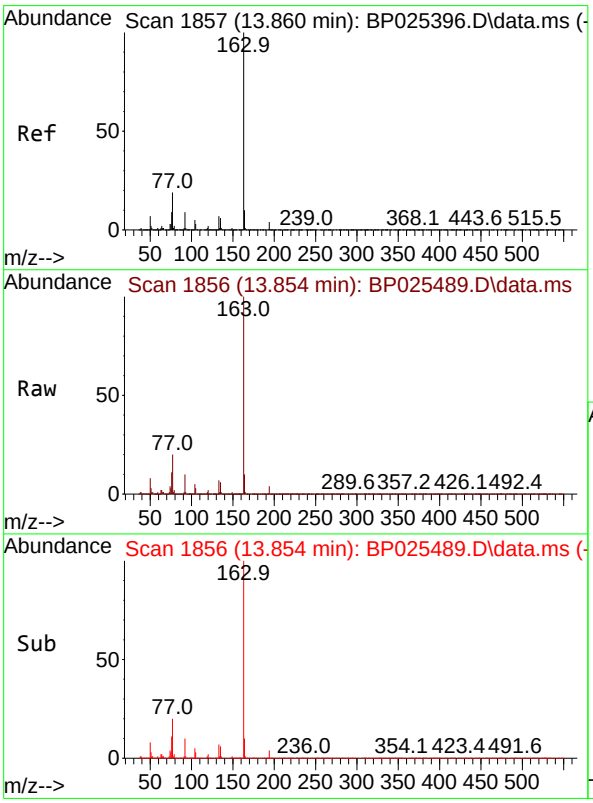
#49
Acenaphthylene
Concen: 47.578 ng
RT: 14.119 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Instrument :
BNA_P
ClientSampleId :
PB169242BS

Tgt Ion:152 Resp: 1618996

Ion	Ratio	Lower	Upper
152	100		
151	19.9	16.0	24.0
153	13.2	10.6	15.8

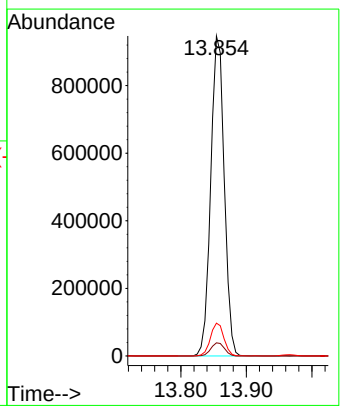


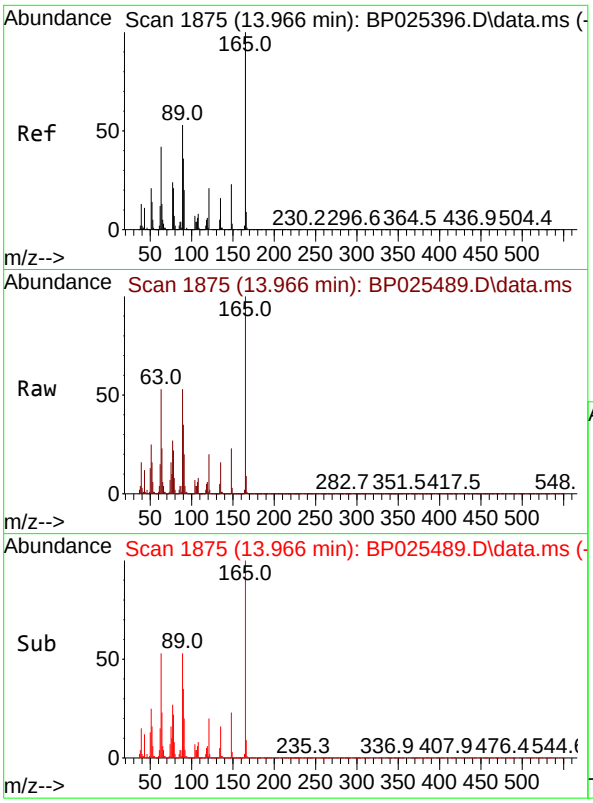


#50
Dimethylphthalate
Concen: 50.931 ng
RT: 13.854 min Scan# 1856
Delta R.T. -0.006 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Tgt Ion:163 Resp: 1356557

Ion	Ratio	Lower	Upper
163	100		
194	4.1	3.4	5.0
164	10.3	7.9	11.9



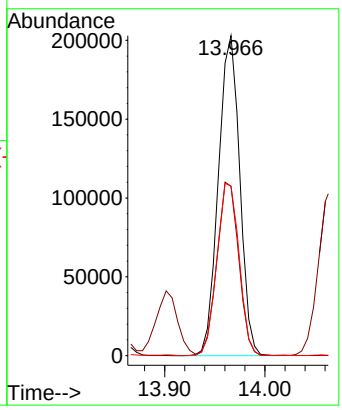


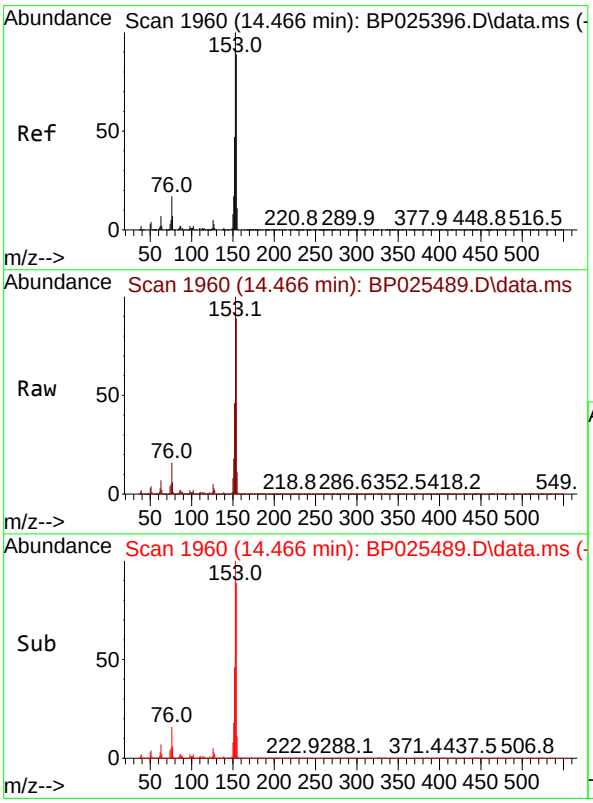
#51
2,6-Dinitrotoluene
Concen: 53.440 ng
RT: 13.966 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Instrument :
BNA_P
ClientSampleId :
PB169242BS

Tgt Ion:165 Resp: 300006

Ion	Ratio	Lower	Upper
165	100		
63	53.0	40.9	61.3
89	53.0	42.1	63.1

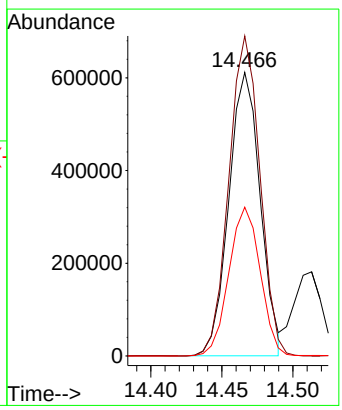


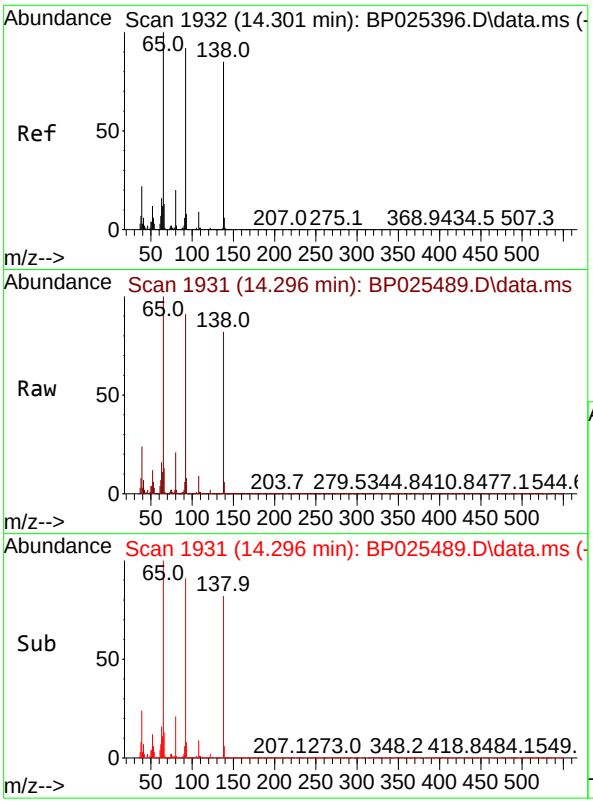


#52
Acenaphthene
Concen: 47.071 ng
RT: 14.466 min Scan# 1960
Delta R.T. 0.000 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Tgt Ion:154 Resp: 940183

Ion	Ratio	Lower	Upper
154	100		
153	112.8	90.2	135.2
152	52.5	42.1	63.1



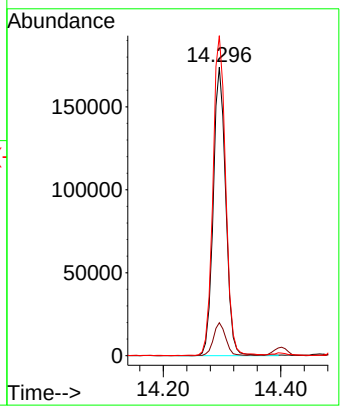


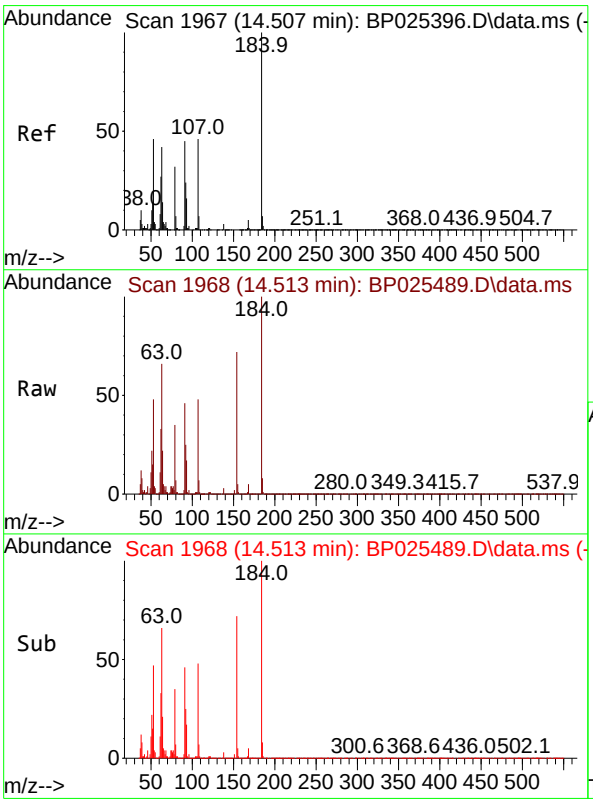
#53
3-Nitroaniline
Concen: 40.618 ng
RT: 14.296 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Instrument :
BNA_P
ClientSampleId :
PB169242BS

Tgt Ion:138 Resp: 256549

Ion	Ratio	Lower	Upper
138	100		
108	11.4	8.3	12.5
92	110.9	86.2	129.2

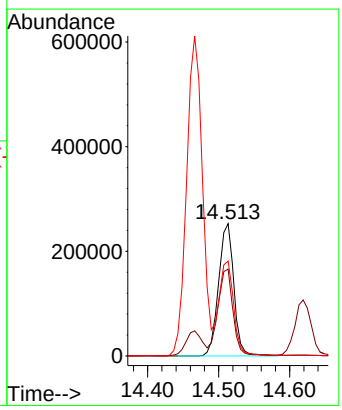


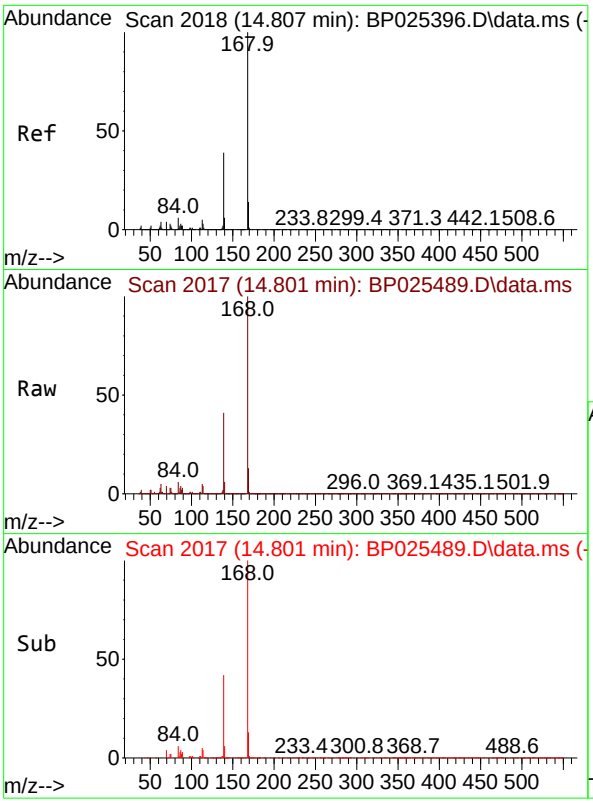


#54
2,4-Dinitrophenol
Concen: 125.571 ng
RT: 14.513 min Scan# 1968
Delta R.T. 0.006 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Tgt Ion:184 Resp: 376459

Ion	Ratio	Lower	Upper
184	100		
63	65.7	49.4	74.2
154	71.8	54.6	82.0



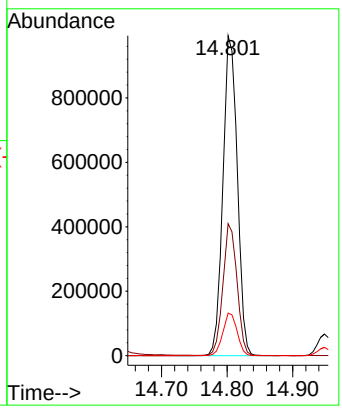


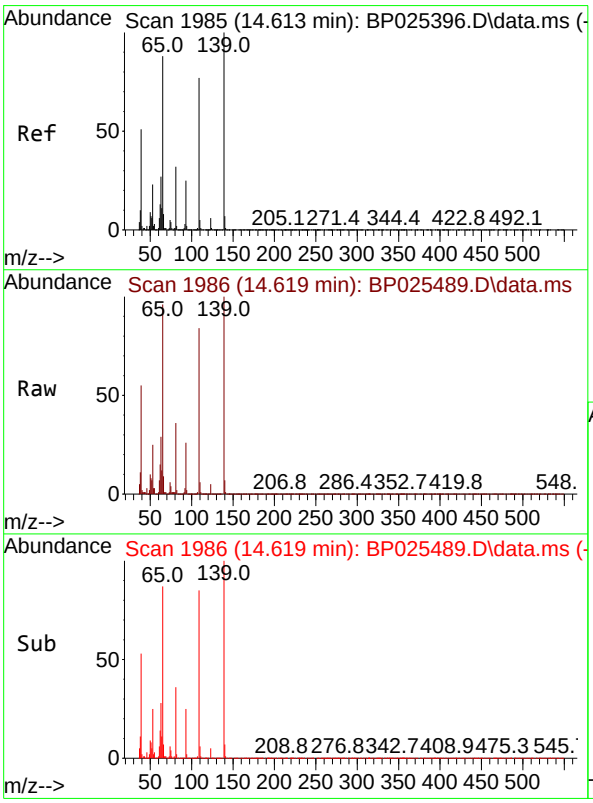
#55
Dibenzofuran
Concen: 47.694 ng
RT: 14.801 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Instrument :
BNA_P
ClientSampleId :
PB169242BS

Tgt Ion:168 Resp: 1506121

Ion	Ratio	Lower	Upper
168	100		
139	41.3	31.5	47.3
169	13.3	10.9	16.3

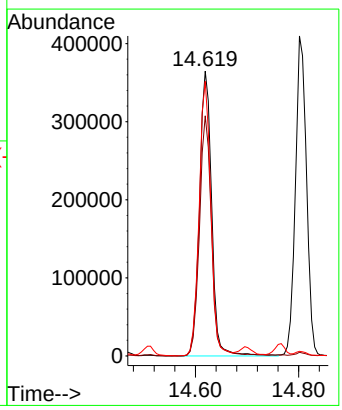


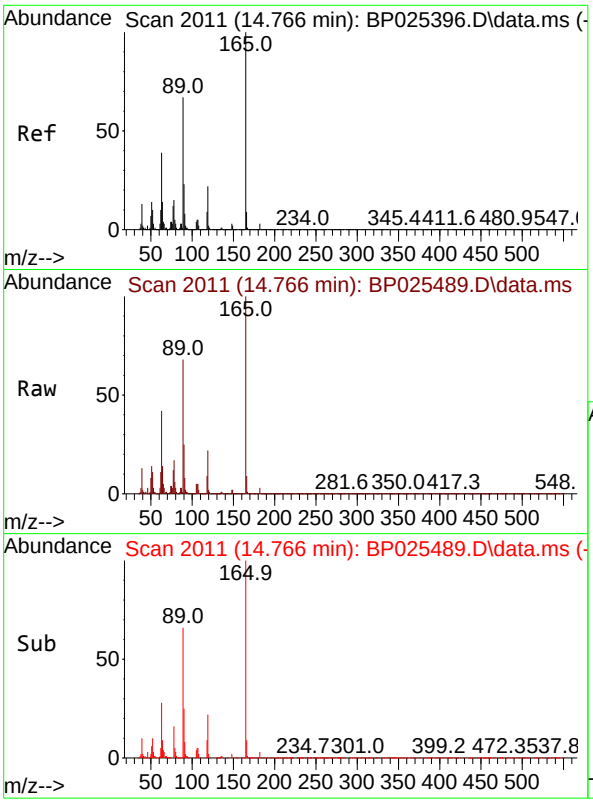


#56
4-Nitrophenol
Concen: 115.169 ng
RT: 14.619 min Scan# 1986
Delta R.T. 0.006 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Tgt Ion:139 Resp: 597756

Ion	Ratio	Lower	Upper
139	100		
109	84.3	56.6	96.6
65	96.4	68.2	108.2



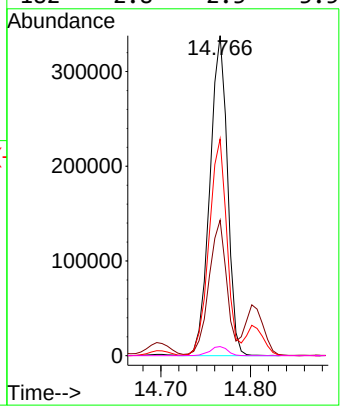


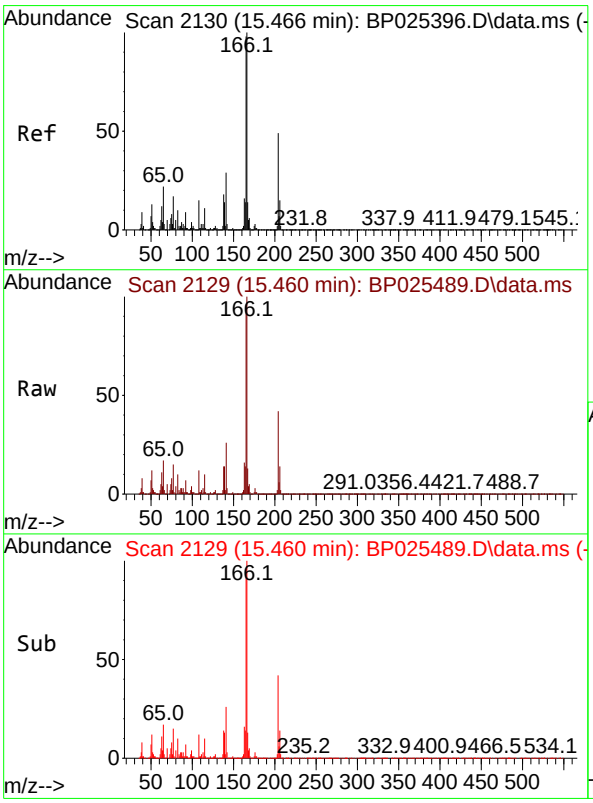
#57
2,4-Dinitrotoluene
Concen: 57.476 ng
RT: 14.766 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Instrument :
BNA_P
ClientSampleId :
PB169242BS

Tgt Ion:165 Resp: 460365

Ion	Ratio	Lower	Upper
165	100		
63	42.4	31.4	47.2
89	67.8	53.3	79.9
182	2.8	2.3	3.5

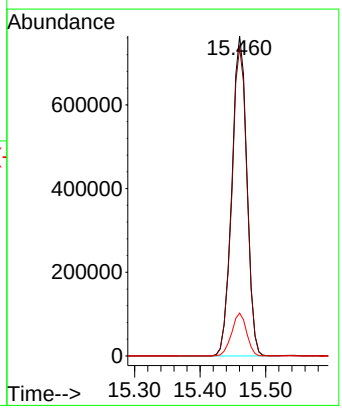


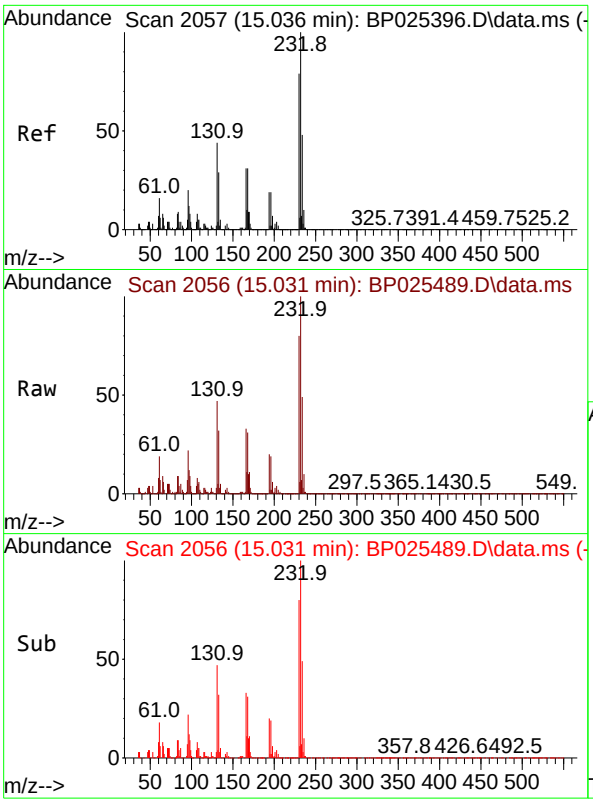


#58
Fluorene
Concen: 48.945 ng
RT: 15.460 min Scan# 2129
Delta R.T. -0.006 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Tgt Ion:166 Resp: 1219615

Ion	Ratio	Lower	Upper
166	100		
165	96.4	78.8	118.2
167	13.4	11.0	16.4



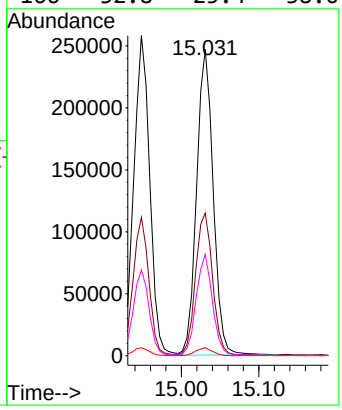


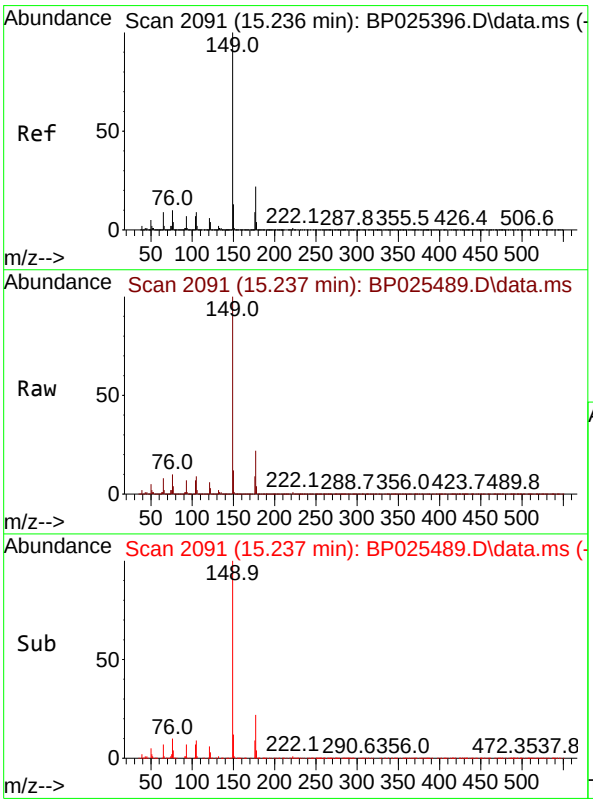
#59
2,3,4,6-Tetrachlorophenol
Concen: 53.468 ng
RT: 15.031 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Instrument :
BNA_P
ClientSampleId :
PB169242BS

Tgt Ion:232 Resp: 366949

Ion	Ratio	Lower	Upper
232	100		
131	47.8	37.0	55.6
130	2.6	1.9	2.9
166	32.8	25.4	38.0

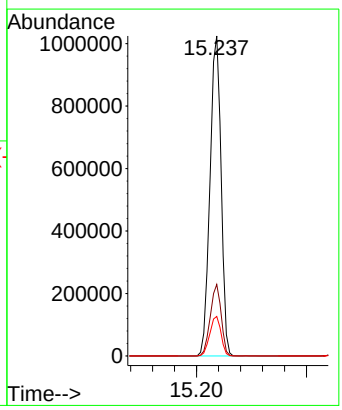


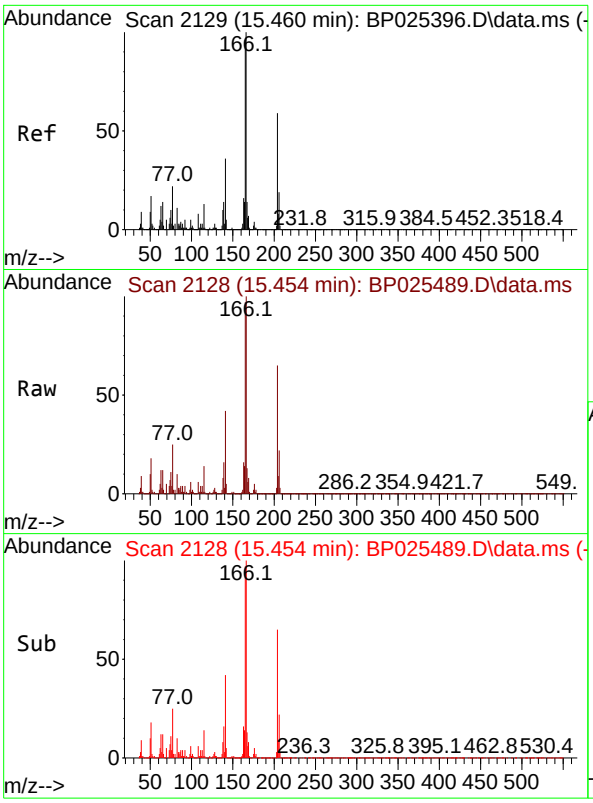


#60
Diethylphthalate
Concen: 52.907 ng
RT: 15.237 min Scan# 2091
Delta R.T. 0.000 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Tgt Ion:149 Resp: 1431889

Ion	Ratio	Lower	Upper
149	100		
177	22.4	17.3	25.9
150	12.3	10.3	15.5



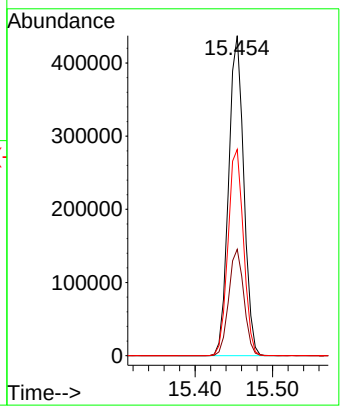


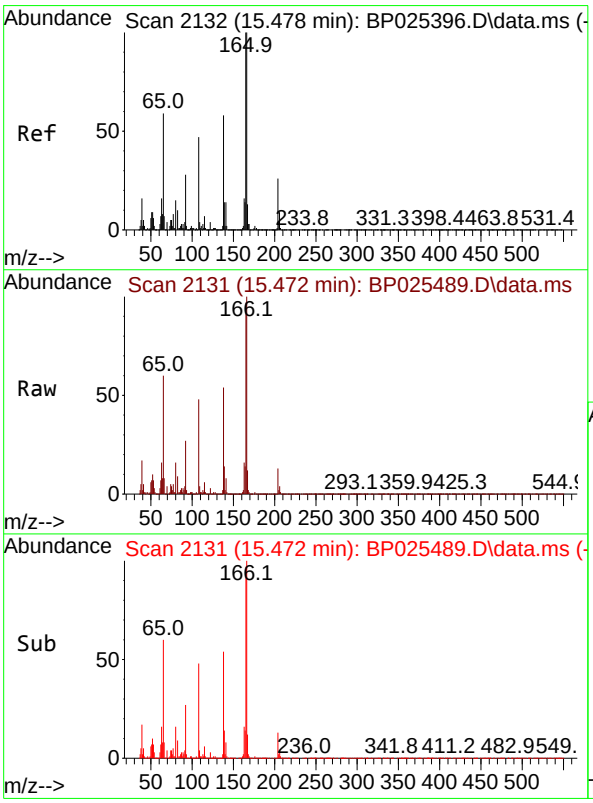
#61
4-Chlorophenyl-phenylether
Concen: 48.058 ng
RT: 15.454 min Scan# 21
Delta R.T. -0.006 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Instrument :
BNA_P
ClientSampleId :
PB169242BS

Tgt Ion:204 Resp: 595570

Ion	Ratio	Lower	Upper
204	100		
206	33.2	25.8	38.8
141	64.5	49.4	74.2

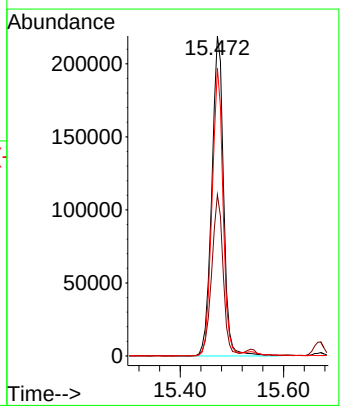


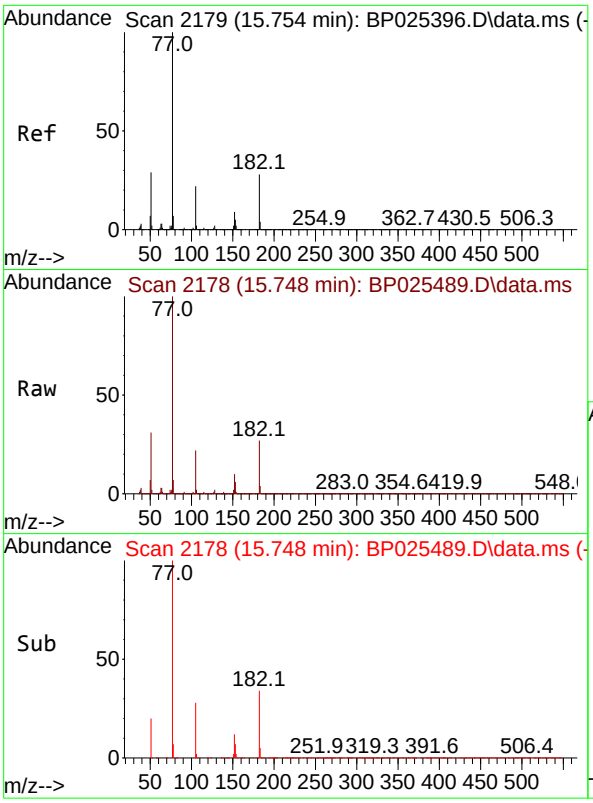


#62
4-Nitroaniline
Concen: 53.400 ng
RT: 15.472 min Scan# 2131
Delta R.T. -0.006 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Tgt Ion:138 Resp: 345776

Ion	Ratio	Lower	Upper
138	100		
92	50.4	29.1	69.1
108	90.0	61.5	101.5



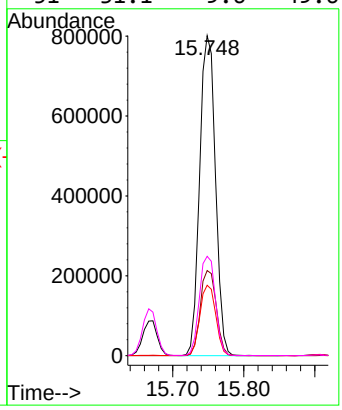


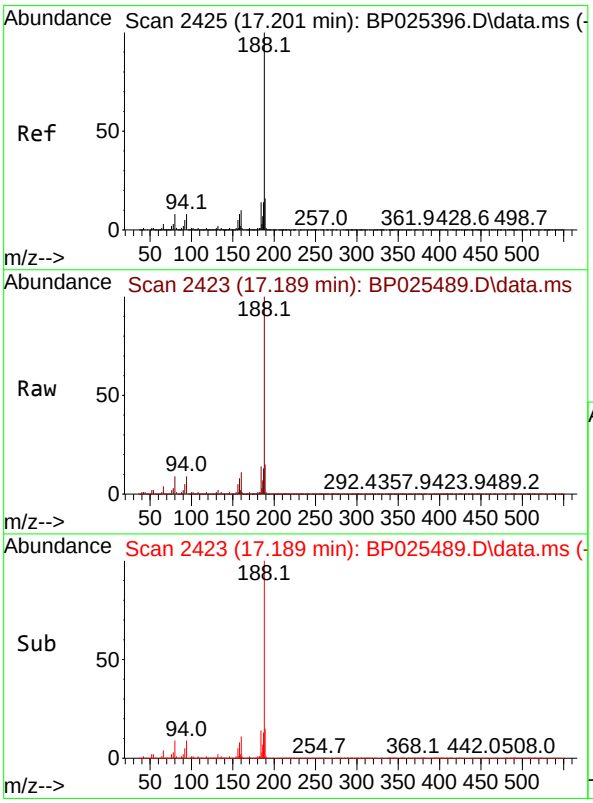
#63
Azobenzene
Concen: 53.570 ng
RT: 15.748 min Scan# 21
Delta R.T. -0.006 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Instrument :
BNA_P
ClientSampleId :
PB169242BS

Tgt Ion: 77 Resp: 1241428

Ion	Ratio	Lower	Upper
77	100		
182	26.6	7.5	47.5
105	22.0	2.1	42.1
51	31.1	9.6	49.6

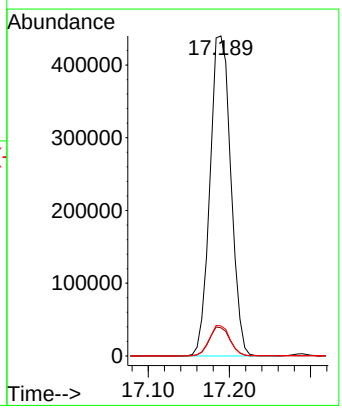


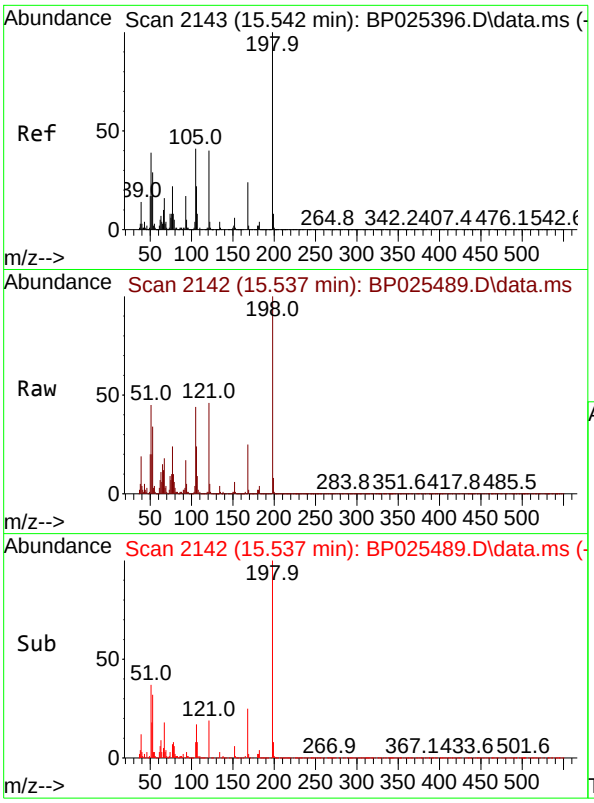


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.189 min Scan# 2423
Delta R.T. -0.012 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Tgt Ion:188 Resp: 785967

Ion	Ratio	Lower	Upper
188	100		
94	8.8	6.6	10.0
80	9.4	6.7	10.1



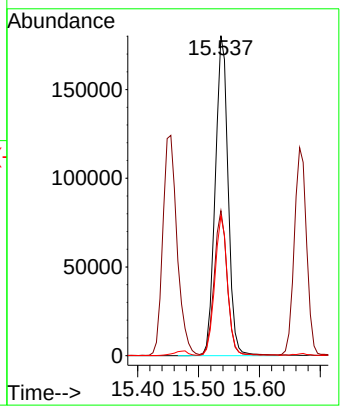


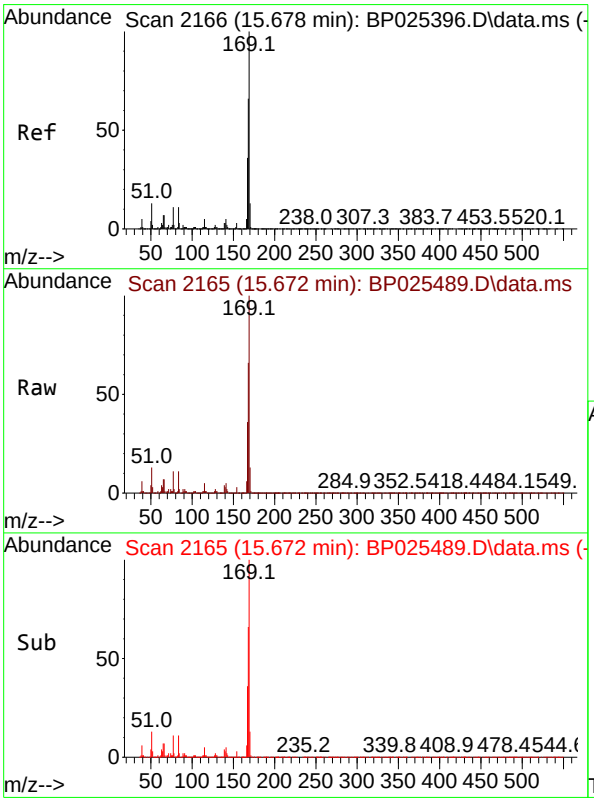
#65
4,6-Dinitro-2-methylphenol
Concen: 53.851 ng
RT: 15.537 min Scan# 21
Delta R.T. -0.006 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Instrument :
BNA_P
ClientSampleId :
PB169242BS

Tgt Ion:198 Resp: 263835

Ion	Ratio	Lower	Upper
198	100		
51	45.3	19.6	59.6
105	43.7	20.9	60.9

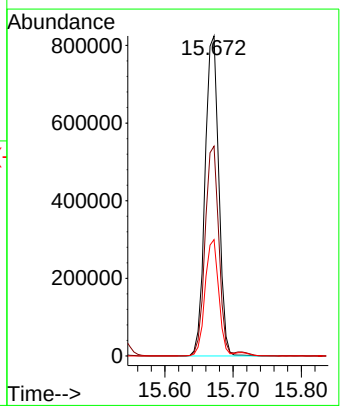


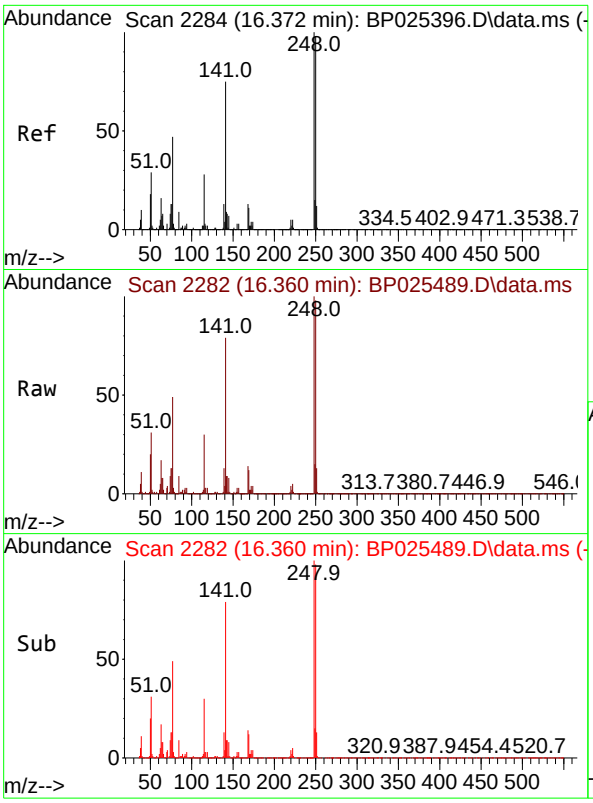


#66
n-Nitrosodiphenylamine
Concen: 48.120 ng
RT: 15.672 min Scan# 2165
Delta R.T. -0.006 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Tgt Ion:169 Resp: 1153302

Ion	Ratio	Lower	Upper
169	100		
168	65.6	53.2	79.8
167	36.3	28.7	43.1



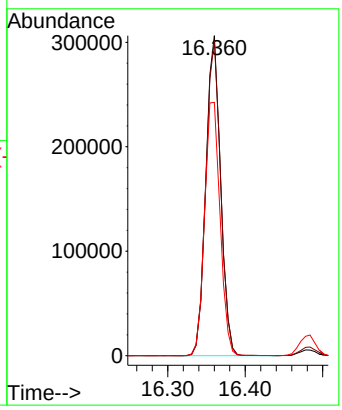


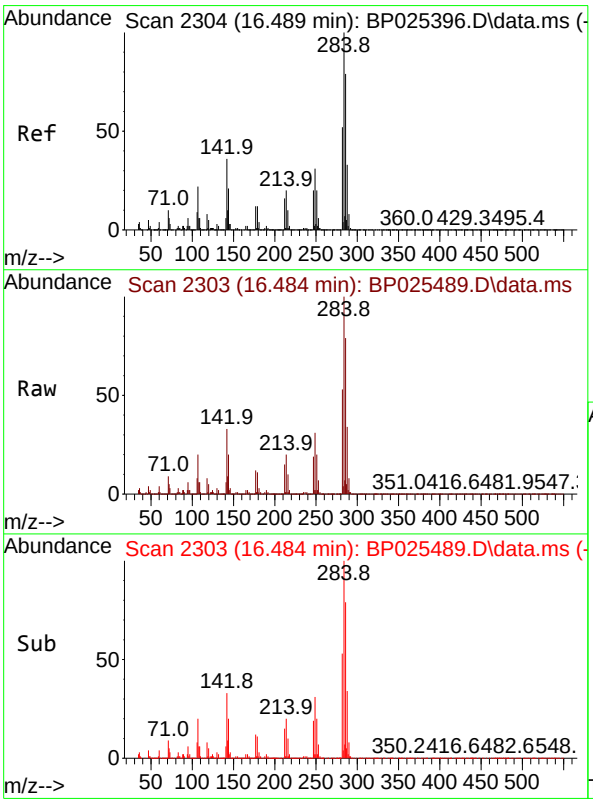
#67
4-Bromophenyl-phenylether
Concen: 46.815 ng
RT: 16.360 min Scan# 2
Delta R.T. -0.012 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Instrument :
BNA_P
ClientSampleId :
PB169242BS

Tgt Ion:248 Resp: 404681

Ion	Ratio	Lower	Upper
248	100		
250	98.3	78.2	117.2
141	79.2	59.6	89.4

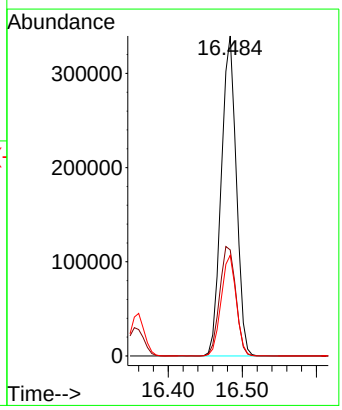


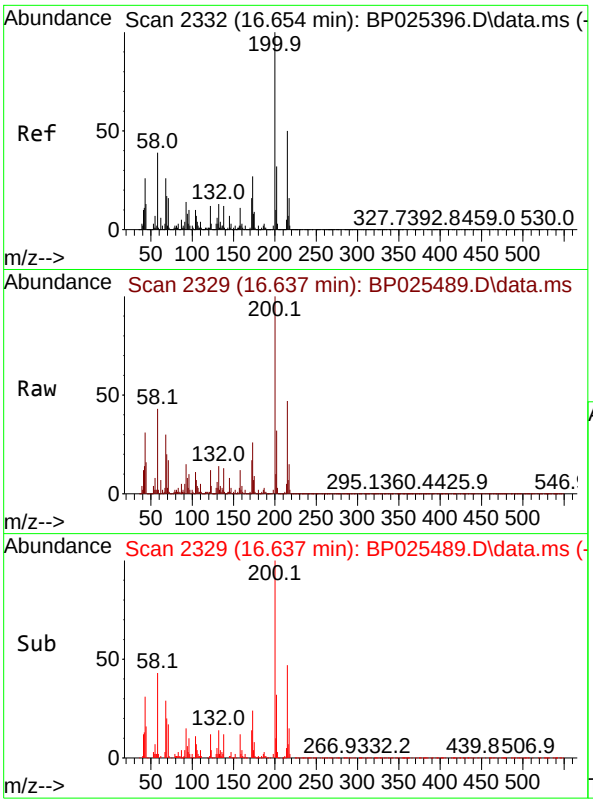


#68
Hexachlorobenzene
Concen: 47.697 ng
RT: 16.484 min Scan# 2303
Delta R.T. -0.006 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Tgt Ion:284 Resp: 477945

Ion	Ratio	Lower	Upper
284	100		
142	33.2	29.1	43.7
249	31.4	25.0	37.4



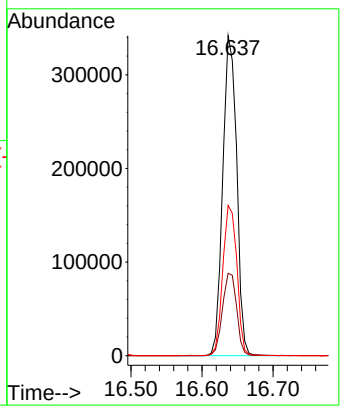


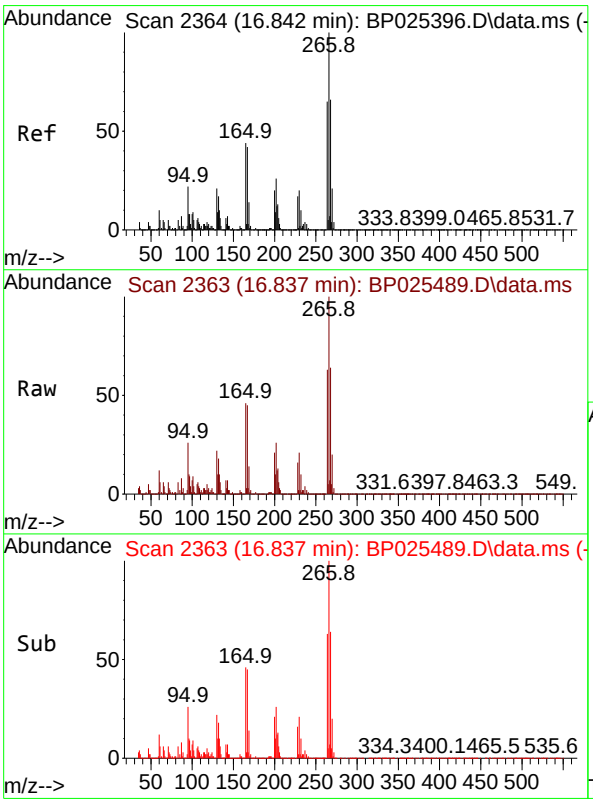
#69
Atrazine
Concen: 51.717 ng
RT: 16.637 min Scan# 2
Delta R.T. -0.017 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Instrument :
BNA_P
ClientSampleId :
PB169242BS

Tgt Ion:200 Resp: 464200

Ion	Ratio	Lower	Upper
200	100		
173	25.7	6.7	46.7
215	47.0	29.7	69.7

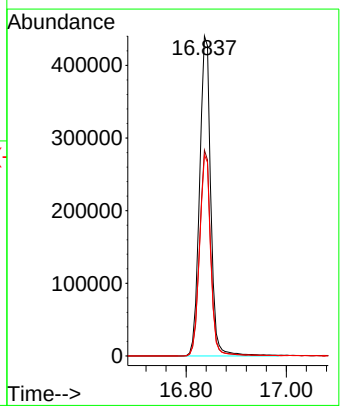


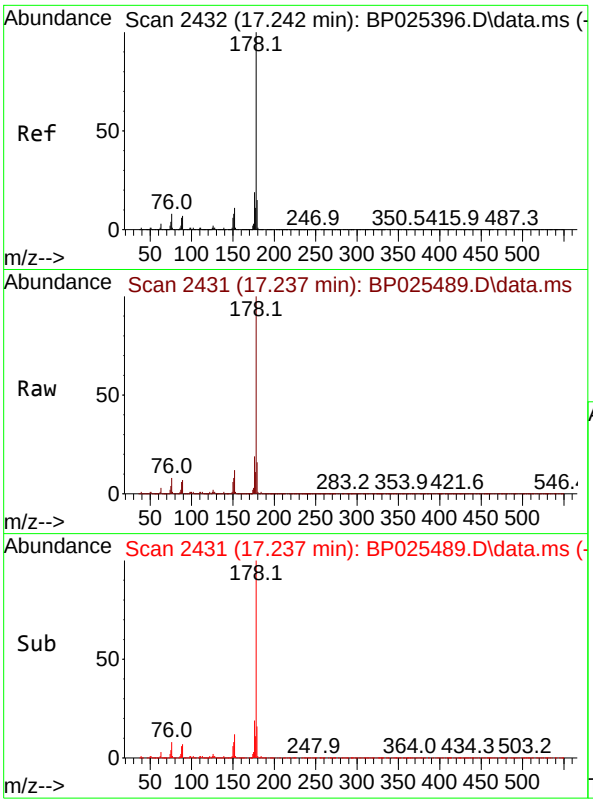


#70
Pentachlorophenol
Concen: 107.267 ng
RT: 16.837 min Scan# 2363
Delta R.T. -0.006 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Tgt Ion:266 Resp: 678508

Ion	Ratio	Lower	Upper
266	100		
268	64.3	52.6	79.0
264	62.8	52.0	78.0



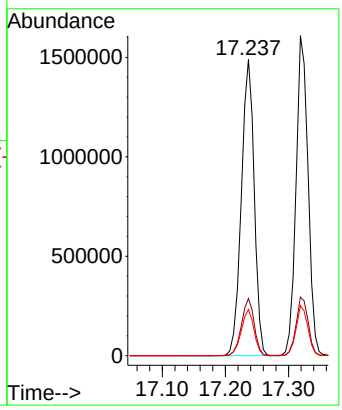


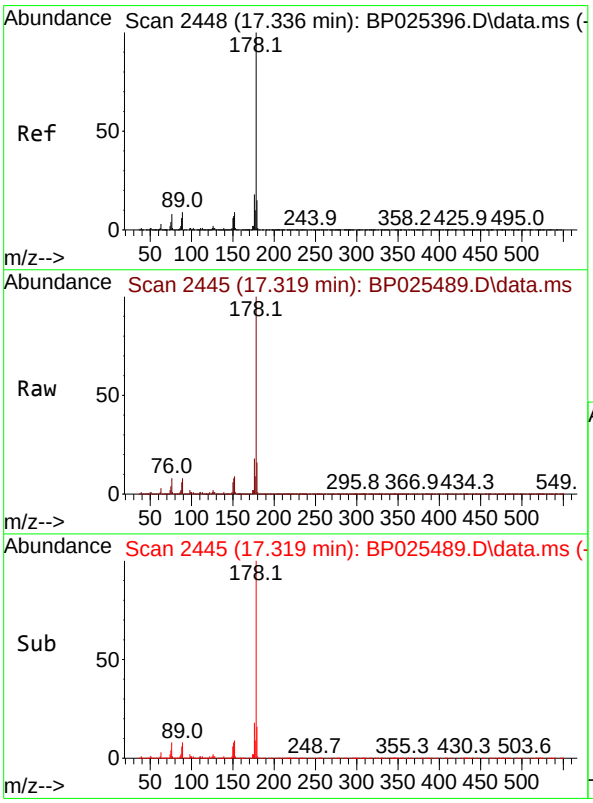
#71
Phenanthrene
Concen: 48.800 ng
RT: 17.237 min Scan# 24
Delta R.T. -0.006 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Instrument :
BNA_P
ClientSampleId :
PB169242BS

Tgt Ion:178 Resp: 2106985

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.5	23.3
179	15.6	12.2	18.4

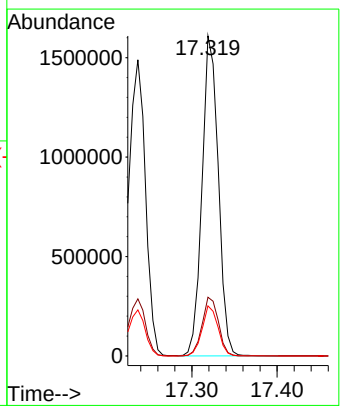


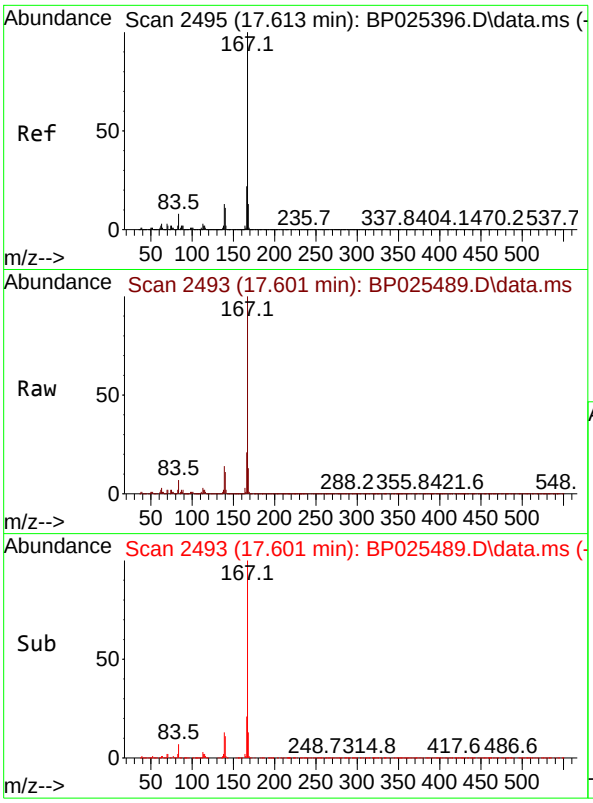


#72
Anthracene
Concen: 48.459 ng
RT: 17.319 min Scan# 2445
Delta R.T. -0.017 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Tgt Ion:178 Resp: 2136608

Ion	Ratio	Lower	Upper
178	100		
176	18.4	14.7	22.1
179	15.6	12.2	18.2



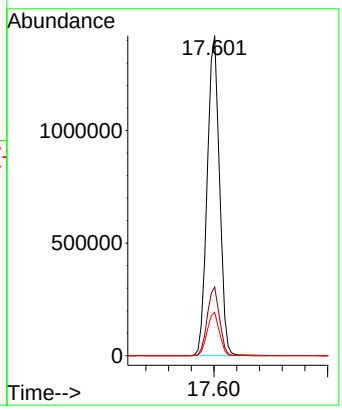


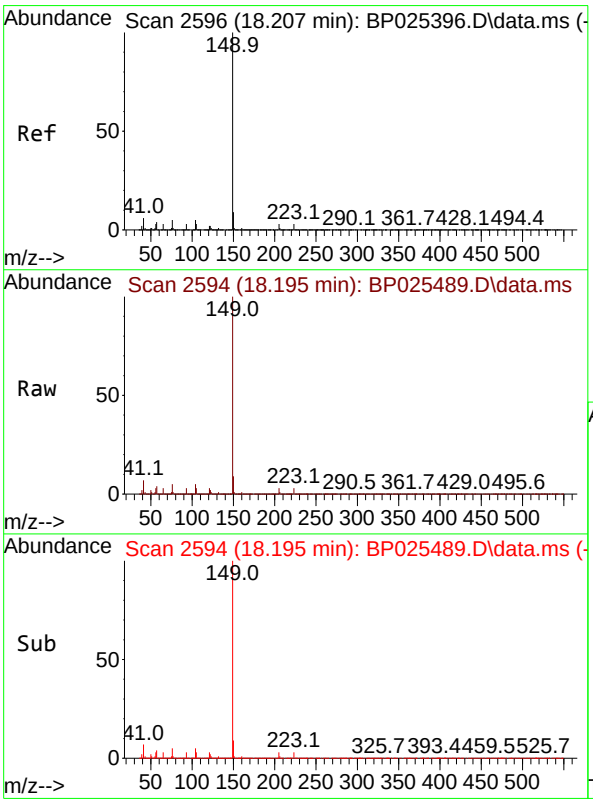
#73
Carbazole
Concen: 51.060 ng
RT: 17.601 min Scan# 24
Delta R.T. -0.012 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Instrument :
BNA_P
ClientSampleId :
PB169242BS

Tgt Ion:167 Resp: 2120545

Ion	Ratio	Lower	Upper
167	100		
166	21.5	17.5	26.3
139	13.6	10.6	16.0

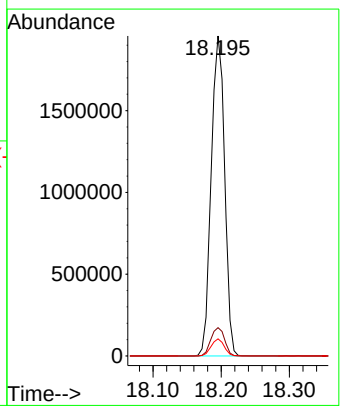


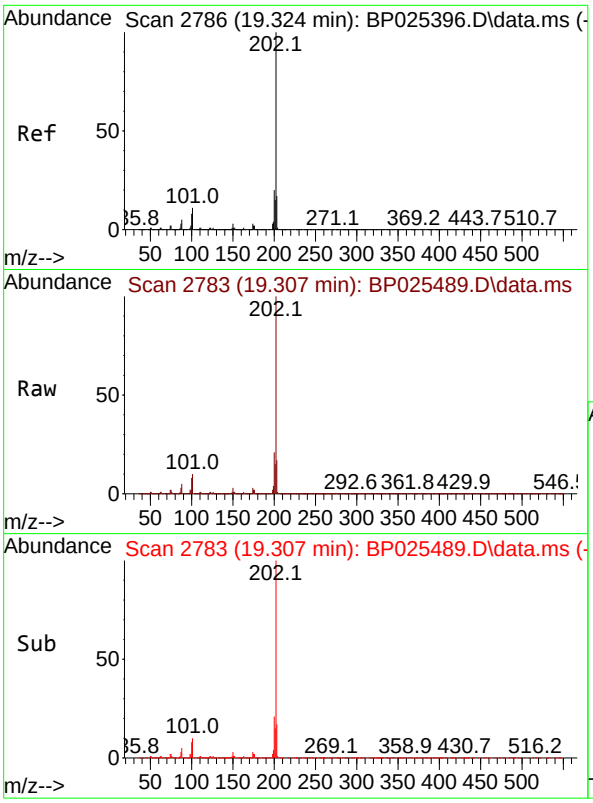


#74
Di-n-butylphthalate
Concen: 52.470 ng
RT: 18.195 min Scan# 2594
Delta R.T. -0.012 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Tgt Ion:149 Resp: 2680990

Ion	Ratio	Lower	Upper
149	100		
150	8.9	7.4	11.0
104	5.3	4.2	6.2



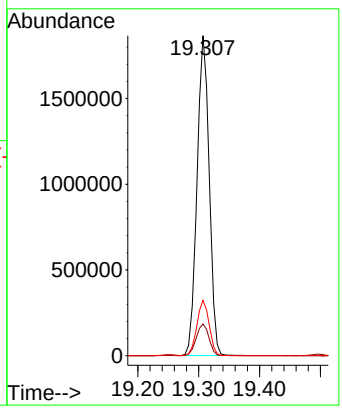


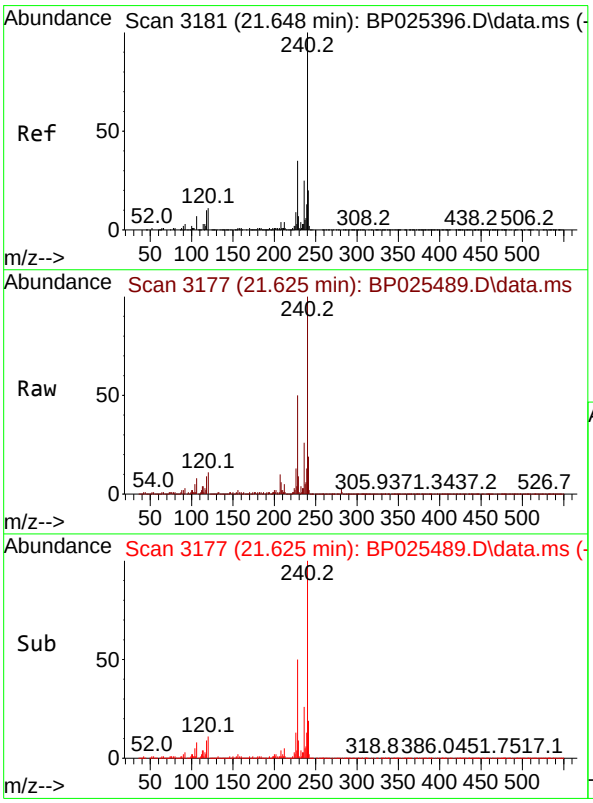
#75
Fluoranthene
Concen: 50.309 ng
RT: 19.307 min Scan# 2
Delta R.T. -0.017 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Instrument :
BNA_P
ClientSampleId :
PB169242BS

Tgt Ion:202 Resp: 2590995

Ion	Ratio	Lower	Upper
202	100		
101	9.9	0.0	31.1
203	17.3	0.0	37.3

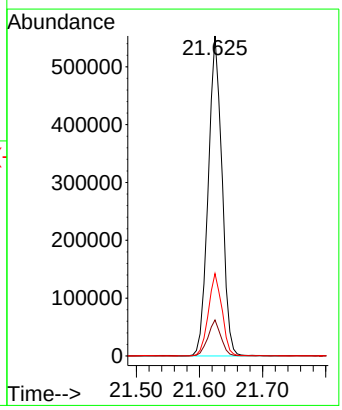


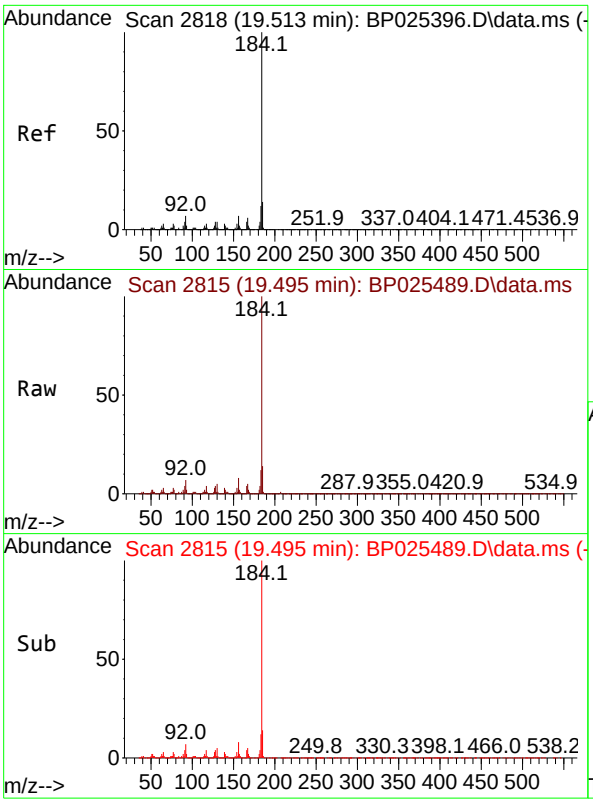


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.625 min Scan# 3177
Delta R.T. -0.023 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Tgt Ion:240 Resp: 837525

Ion	Ratio	Lower	Upper
240	100		
120	11.2	8.9	13.3
236	25.8	19.8	29.8



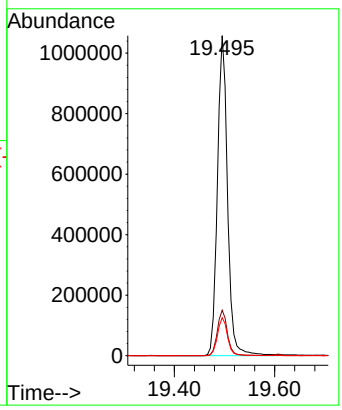


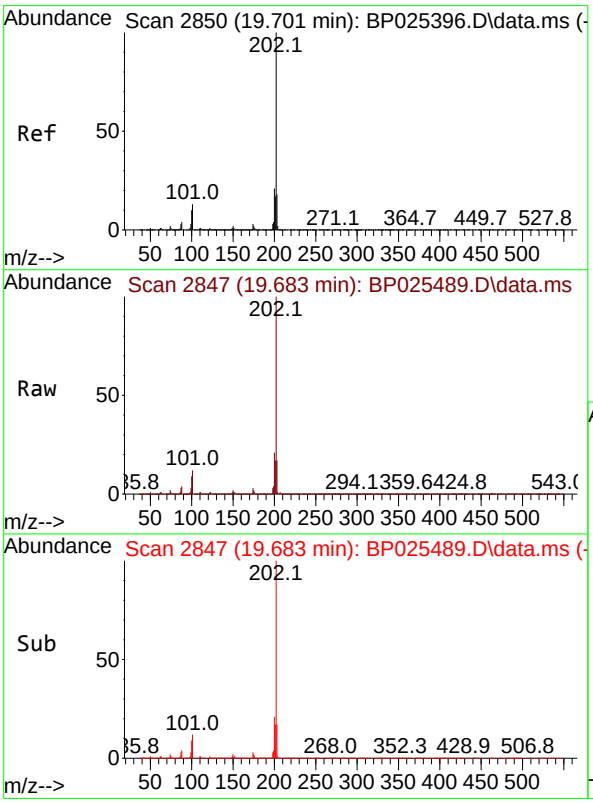
#77
Benzidine
Concen: 51.674 ng
RT: 19.495 min Scan# 2
Delta R.T. -0.017 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Instrument :
BNA_P
ClientSampleId :
PB169242BS

Tgt Ion:184 Resp: 1477006

Ion	Ratio	Lower	Upper
184	100		
185	14.2	11.5	17.3
183	11.9	9.4	14.2

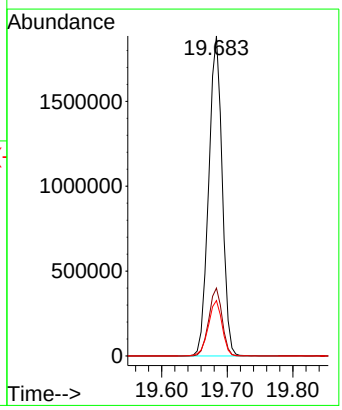


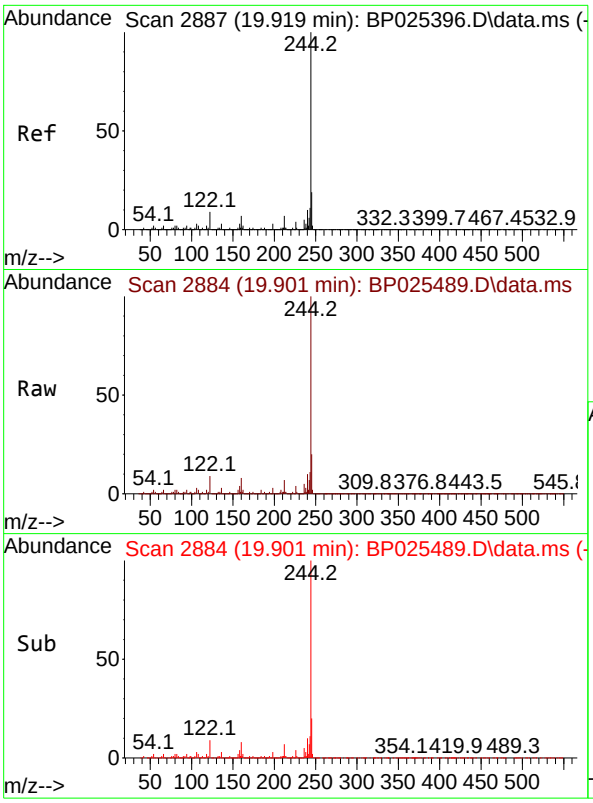


#78
Pyrene
Concen: 49.460 ng
RT: 19.683 min Scan# 2847
Delta R.T. -0.017 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Tgt Ion:202 Resp: 2692453

Ion	Ratio	Lower	Upper
202	100		
200	21.2	16.9	25.3
203	17.3	14.2	21.2



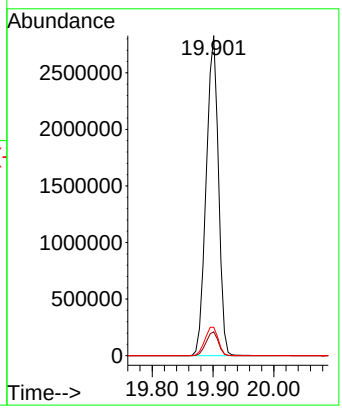


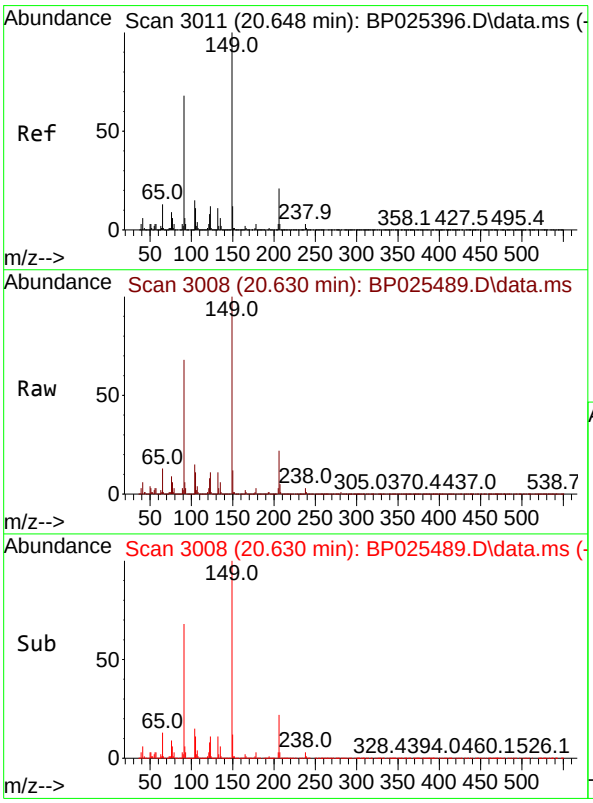
#79
Terphenyl-d14
Concen: 86.358 ng
RT: 19.901 min Scan# 2
Delta R.T. -0.017 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Instrument :
BNA_P
ClientSampleId :
PB169242BS

Tgt Ion:244 Resp: 3953214

Ion	Ratio	Lower	Upper
244	100		
212	7.4	5.8	8.6
122	8.9	7.4	11.2

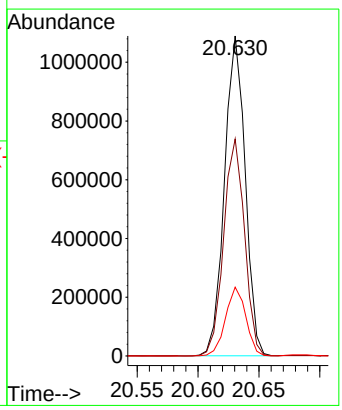


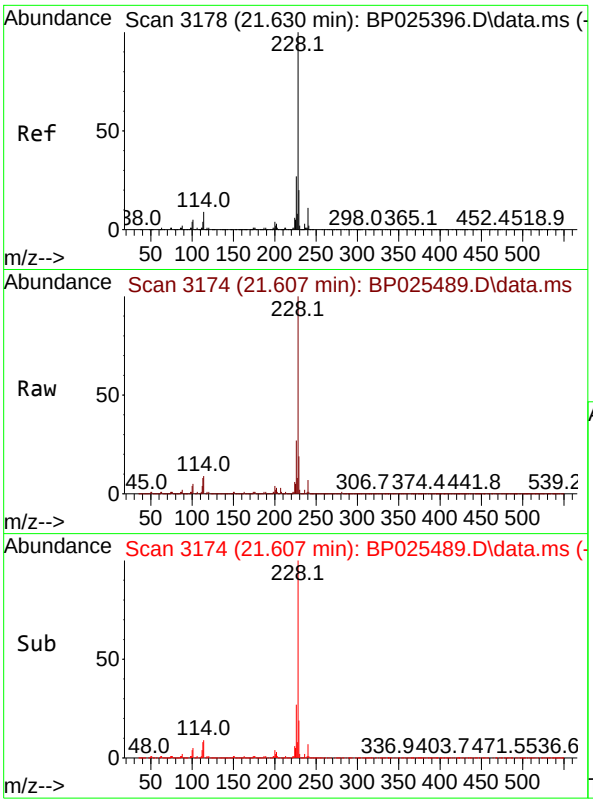


#80
Butylbenzylphthalate
Concen: 52.116 ng
RT: 20.630 min Scan# 3008
Delta R.T. -0.017 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Tgt Ion:149 Resp: 1285781

Ion	Ratio	Lower	Upper
149	100		
91	67.8	54.2	81.2
206	21.5	16.6	24.8



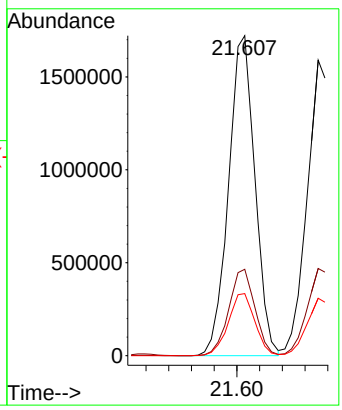


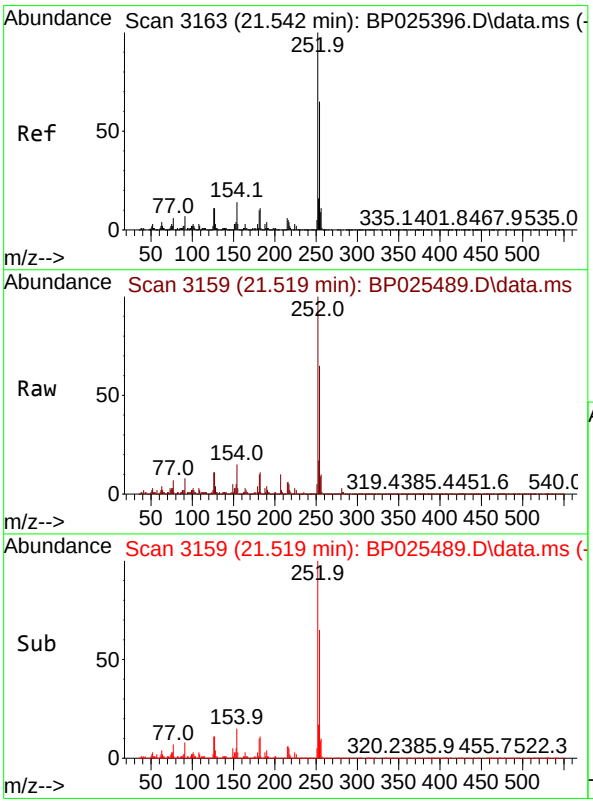
#81
Benzo(a)anthracene
Concen: 50.305 ng
RT: 21.607 min Scan# 3
Delta R.T. -0.023 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Instrument :
BNA_P
ClientSampleId :
PB169242BS

Tgt Ion:228 Resp: 2778617

Ion	Ratio	Lower	Upper
228	100		
226	27.0	21.7	32.5
229	19.4	15.6	23.4

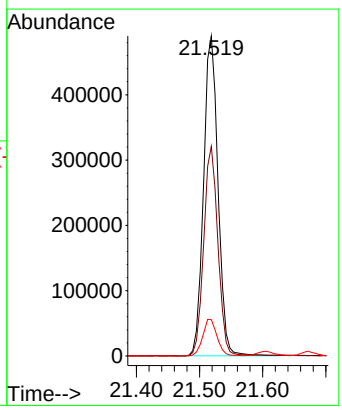


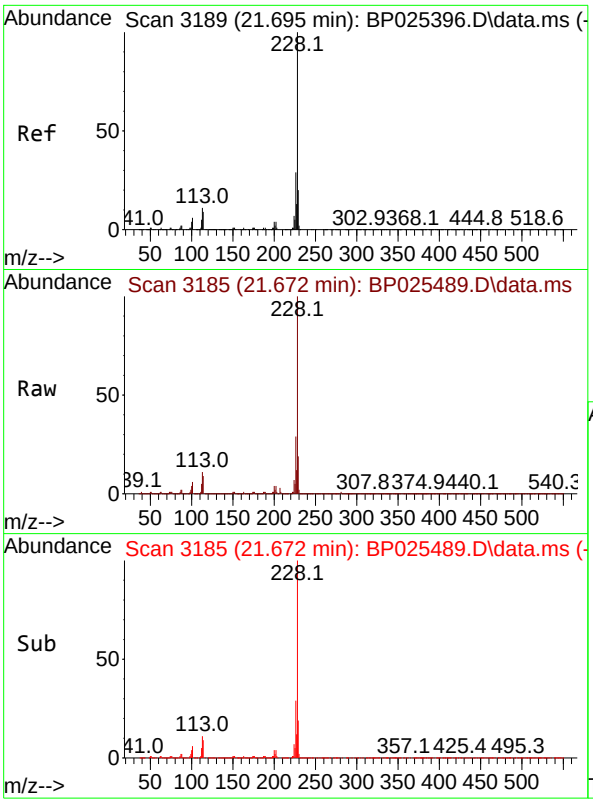


#82
3,3'-Dichlorobenzidine
Concen: 37.395 ng
RT: 21.519 min Scan# 3159
Delta R.T. -0.023 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Tgt Ion:252 Resp: 778549

Ion	Ratio	Lower	Upper
252	100		
254	65.5	51.8	77.6
126	11.4	9.1	13.7



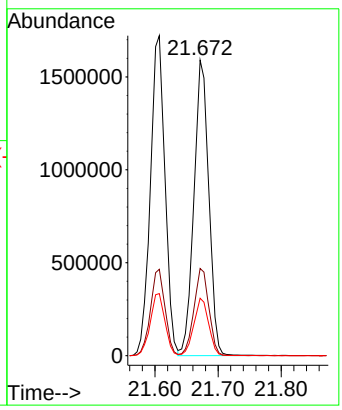


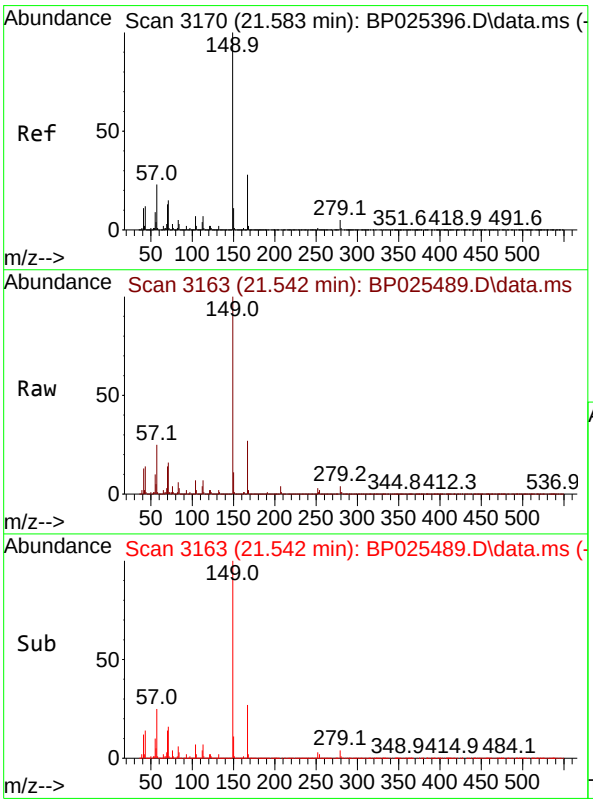
#83
Chrysene
Concen: 50.178 ng
RT: 21.672 min Scan# 3
Delta R.T. -0.023 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Instrument :
BNA_P
ClientSampleId :
PB169242BS

Tgt Ion:228 Resp: 2595574

Ion	Ratio	Lower	Upper
228	100		
226	29.5	23.2	34.8
229	19.4	15.6	23.4

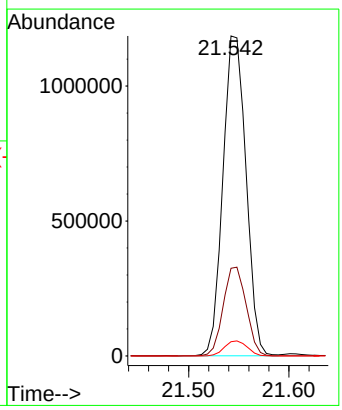


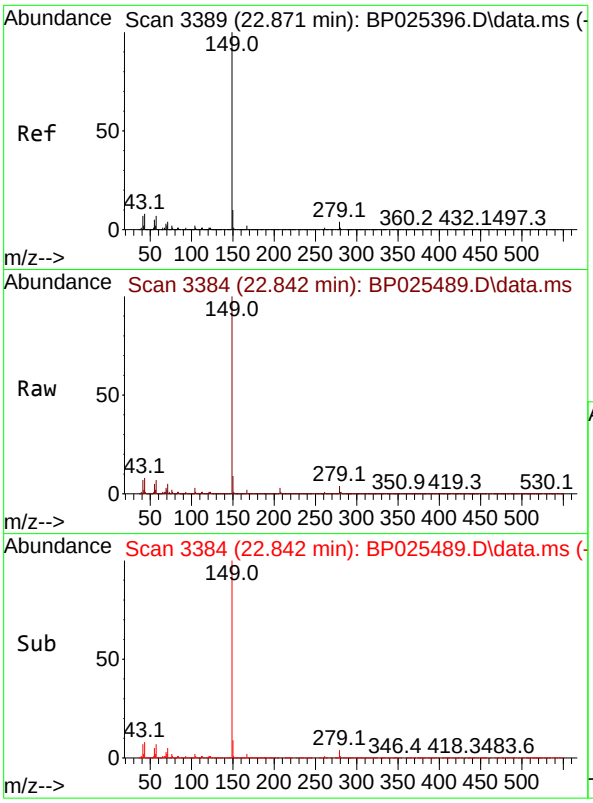


#84
Bis(2-ethylhexyl)phthalate
Concen: 52.141 ng
RT: 21.542 min Scan# 3163
Delta R.T. -0.041 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Tgt Ion:149 Resp: 1893639

Ion	Ratio	Lower	Upper
149	100		
167	27.4	22.1	33.1
279	4.5	3.8	5.6



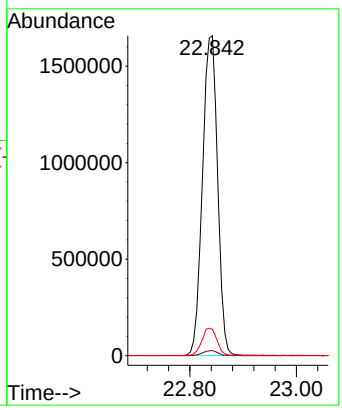


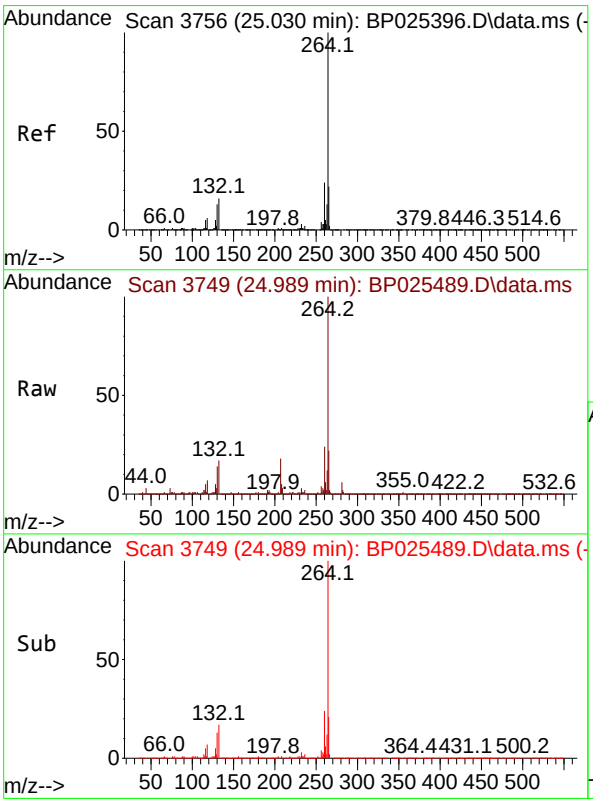
#85
Di-n-octyl phthalate
Concen: 52.072 ng
RT: 22.842 min Scan# 3
Delta R.T. -0.029 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Instrument :
BNA_P
ClientSampleId :
PB169242BS

Tgt Ion:149 Resp: 3252836

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	8.6	6.3	9.5

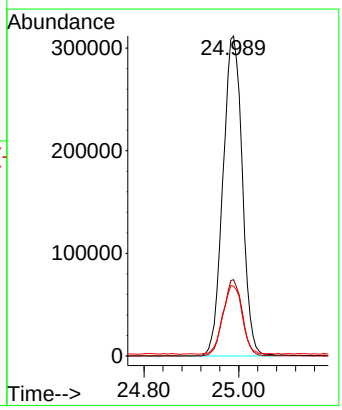


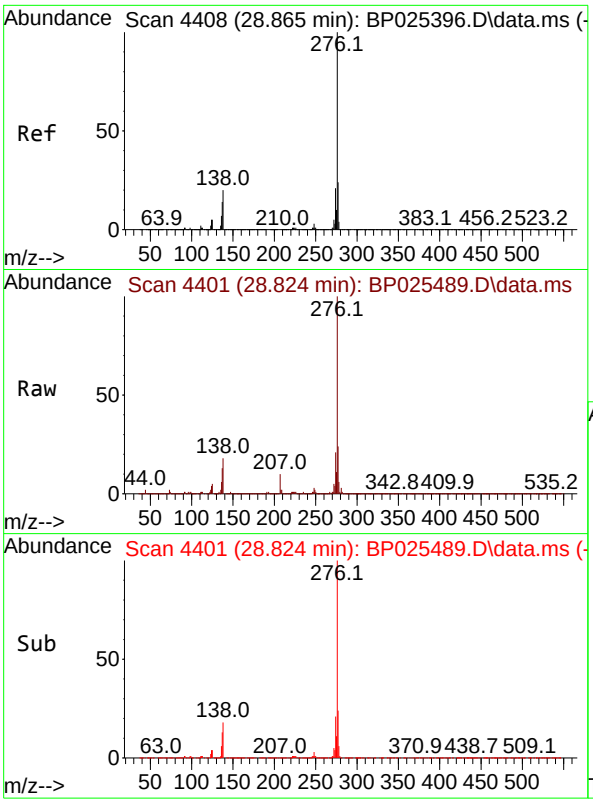


#86
Perylene-d12
Concen: 20.000 ng
RT: 24.989 min Scan# 3749
Delta R.T. -0.041 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Tgt Ion:264 Resp: 883653

Ion	Ratio	Lower	Upper
264	100		
260	23.9	19.3	28.9
265	21.9	17.4	26.0



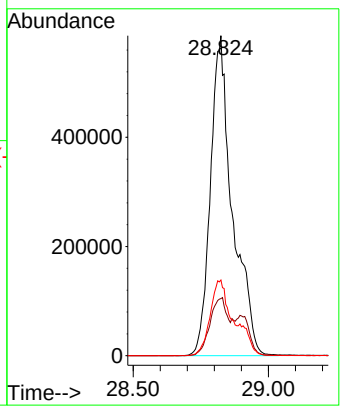


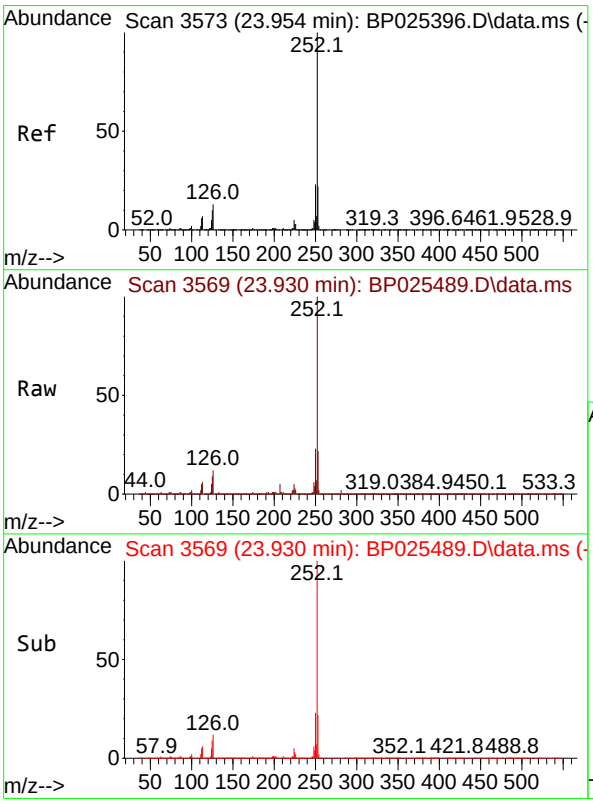
#87
Indeno(1,2,3-cd)pyrene
Concen: 51.139 ng
RT: 28.824 min Scan# 4
Delta R.T. -0.041 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Instrument :
BNA_P
ClientSampleId :
PB169242BS

Tgt Ion:276 Resp: 3313996

Ion	Ratio	Lower	Upper
276	100		
138	14.4	12.9	19.3
277	20.5	17.0	25.6

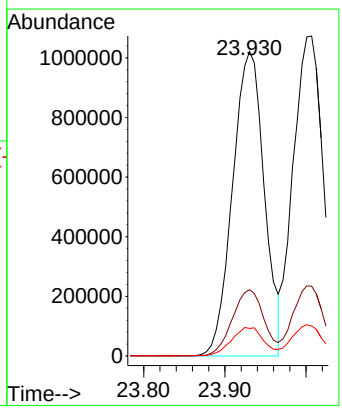


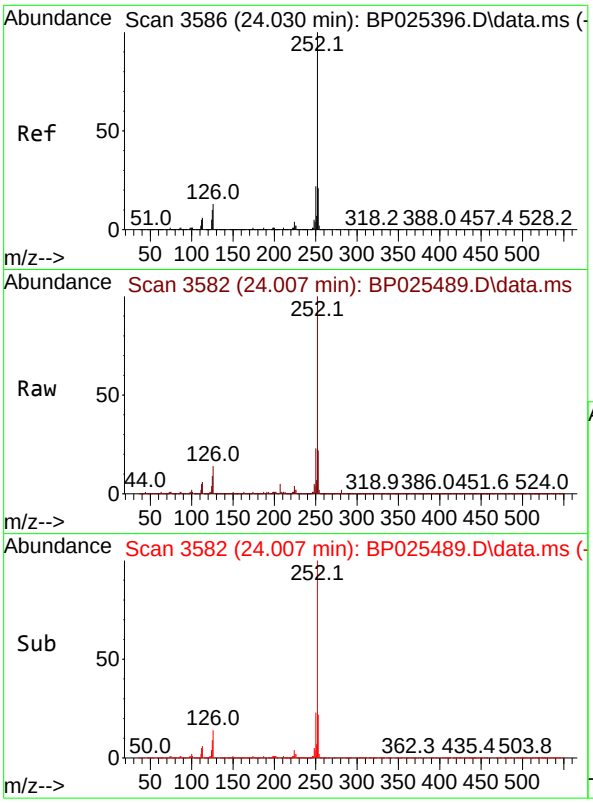


#88
Benzo(b)fluoranthene
Concen: 53.175 ng
RT: 23.930 min Scan# 3569
Delta R.T. -0.023 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Tgt Ion:252 Resp: 2770744

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.7	26.5
125	9.0	7.9	11.9



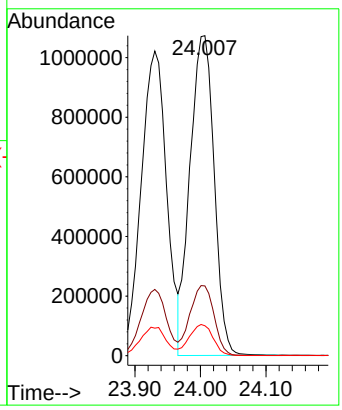


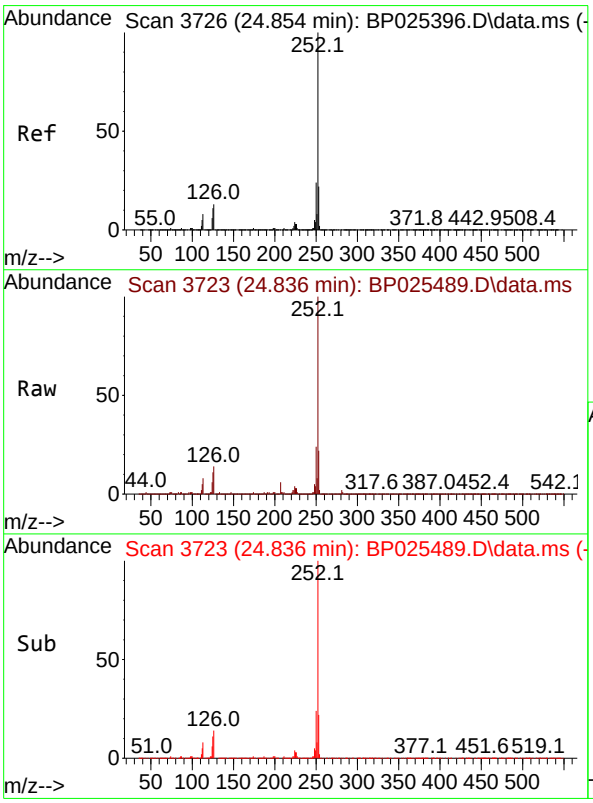
#89
Benzo(k)fluoranthene
Concen: 52.677 ng
RT: 24.007 min Scan# 3
Delta R.T. -0.023 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Instrument :
BNA_P
ClientSampleId :
PB169242BS

Tgt Ion:252 Resp: 2746666

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.1	25.7
125	9.4	7.8	11.6

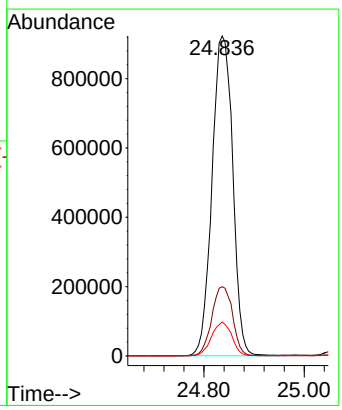


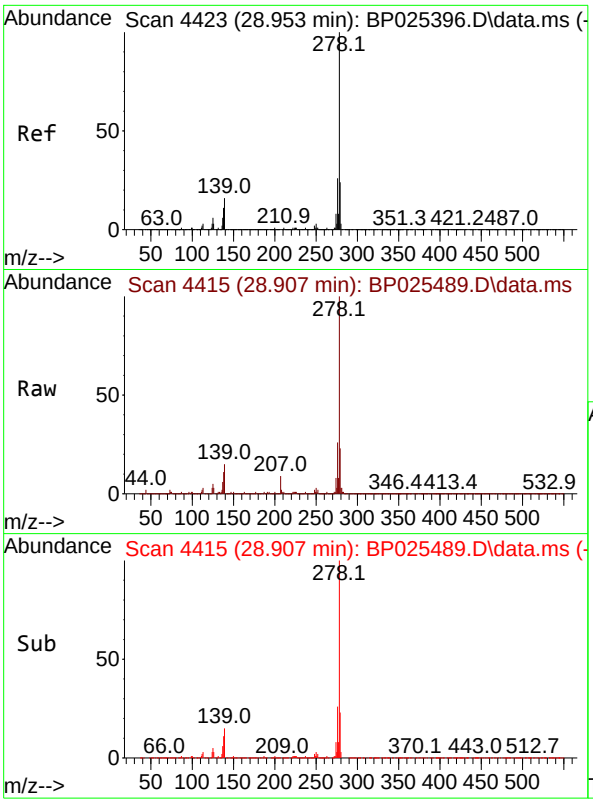


#90
Benzo(a)pyrene
Concen: 52.123 ng
RT: 24.836 min Scan# 3723
Delta R.T. -0.017 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Tgt Ion:252 Resp: 2643770

Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.5	26.3
125	10.6	8.7	13.1



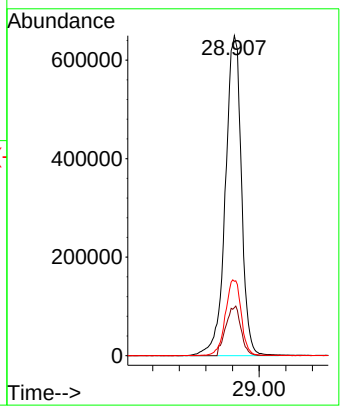


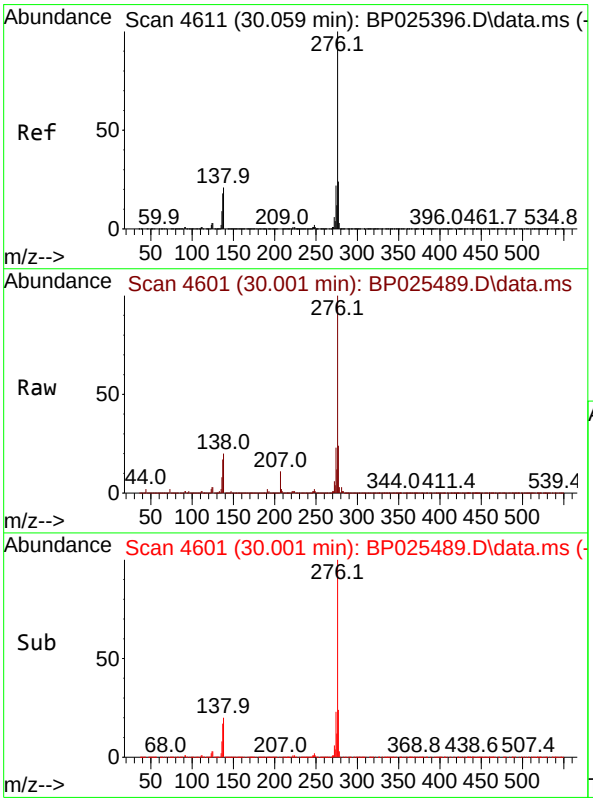
#91
Dibenzo(a,h)anthracene
Concen: 51.352 ng
RT: 28.907 min Scan# 4
Delta R.T. -0.047 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Instrument :
BNA_P
ClientSampleId :
PB169242BS

Tgt Ion:278 Resp: 2719515

Ion	Ratio	Lower	Upper
278	100		
139	15.0	13.0	19.4
279	23.2	19.4	29.2

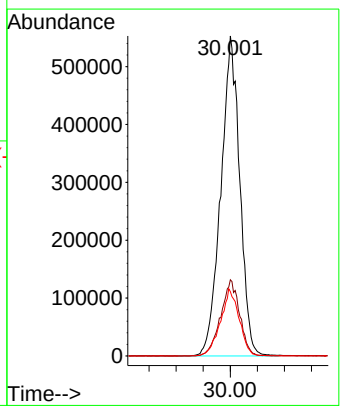




#92
Benzo(g,h,i)perylene
Concen: 51.668 ng
RT: 30.001 min Scan# 4601
Delta R.T. -0.059 min
Lab File: BP025489.D
Acq: 20 Aug 2025 01:07

Tgt Ion:276 Resp: 2689664

Ion	Ratio	Lower	Upper
276	100		
277	23.8	19.4	29.0
138	20.1	16.7	25.1



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

Report of Analysis

Client:	First Environment, Inc.			Date Collected:	
Project:	USACE018-44 DOD			Date Received:	
Client Sample ID:	PB169259BS			SDG No.:	Q2819
Lab Sample ID:	PB169259BS			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	100
Sample Wt/Vol:	30.02	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOC-TCL BNA -20
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP025514.D	1	08/15/25 08:25	08/20/25 19:49	PB169259

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
100-52-7	Benzaldehyde	840		160	270	330	ug/Kg
108-95-2	Phenol	1400		22.1	130	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1400		24.3	130	170	ug/Kg
95-57-8	2-Chlorophenol	1500		24.4	130	170	ug/Kg
95-48-7	2-Methylphenol	1400		29.9	130	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1400		37.5	130	170	ug/Kg
98-86-2	Acetophenone	1500		29.5	130	170	ug/Kg
65794-96-9	3+4-Methylphenols	1300		41.1	270	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1300		47.4	79.9	79.9	ug/Kg
67-72-1	Hexachloroethane	1500		17.6	130	170	ug/Kg
98-95-3	Nitrobenzene	1500		18.3	130	170	ug/Kg
78-59-1	Isophorone	1400		32.8	130	170	ug/Kg
88-75-5	2-Nitrophenol	1600		58.2	130	170	ug/Kg
105-67-9	2,4-Dimethylphenol	1500		64.8	130	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1400		30.8	130	170	ug/Kg
120-83-2	2,4-Dichlorophenol	1500		28.3	130	170	ug/Kg
91-20-3	Naphthalene	1500		22.7	130	170	ug/Kg
106-47-8	4-Chloroaniline	730		35.4	130	170	ug/Kg
87-68-3	Hexachlorobutadiene	1600		25.3	130	170	ug/Kg
105-60-2	Caprolactam	1300		52.1	270	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1400		28.7	130	170	ug/Kg
91-57-6	2-Methylnaphthalene	1400		25.6	130	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	3400	E	120	270	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1600		19.8	130	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1600		29.1	130	170	ug/Kg
92-52-4	1,1-Biphenyl	1500		21.8	130	170	ug/Kg
91-58-7	2-Chloronaphthalene	1600		22.5	130	170	ug/Kg
88-74-4	2-Nitroaniline	1600		48.1	130	170	ug/Kg
131-11-3	Dimethylphthalate	1500		27.1	130	170	ug/Kg

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Fax : 908 789 8922

Report of Analysis

Client:	First Environment, Inc.			Date Collected:	
Project:	USACE018-44 DOD			Date Received:	
Client Sample ID:	PB169259BS			SDG No.:	Q2819
Lab Sample ID:	PB169259BS			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	100
Sample Wt/Vol:	30.02	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOC-TCL BNA -20
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP025514.D	1	08/15/25 08:25	08/20/25 19:49	PB169259

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1500		28.9	130	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	1500		33.6	130	170	ug/Kg
99-09-2	3-Nitroaniline	1000		46.0	130	170	ug/Kg
83-32-9	Acenaphthene	1500		21.3	130	170	ug/Kg
51-28-5	2,4-Dinitrophenol	3600	E	230	270	330	ug/Kg
100-02-7	4-Nitrophenol	3100	E	110	270	330	ug/Kg
132-64-9	Dibenzofuran	1500		22.7	130	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	1500		50.1	130	170	ug/Kg
84-66-2	Diethylphthalate	1500		28.3	130	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1400		26.7	130	170	ug/Kg
86-73-7	Fluorene	1400		25.3	130	170	ug/Kg
100-01-6	4-Nitroaniline	1500		64.2	130	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1700		100	270	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1500		32.9	130	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1500		27.8	130	170	ug/Kg
118-74-1	Hexachlorobenzene	1500		25.3	130	170	ug/Kg
1912-24-9	Atrazine	1600		34.0	130	170	ug/Kg
87-86-5	Pentachlorophenol	3300	E	51.3	270	330	ug/Kg
85-01-8	Phenanthrene	1500		20.9	130	170	ug/Kg
120-12-7	Anthracene	1500		33.3	130	170	ug/Kg
86-74-8	Carbazole	1600		31.2	130	170	ug/Kg
84-74-2	Di-n-butylphthalate	1600		47.9	130	170	ug/Kg
206-44-0	Fluoranthene	1600		30.0	130	170	ug/Kg
129-00-0	Pyrene	1400		36.0	130	170	ug/Kg
85-68-7	Butylbenzylphthalate	1600		71.4	130	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1200		36.7	270	330	ug/Kg
56-55-3	Benzo(a)anthracene	1600		23.0	130	170	ug/Kg
218-01-9	Chrysene	1600		19.9	130	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1600		59.2	130	170	ug/Kg
117-84-0	Di-n-octyl phthalate	1800		86.7	270	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	1500		19.0	130	170	ug/Kg

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Fax : 908 789 8922

Report of Analysis

Client:	First Environment, Inc.			Date Collected:	
Project:	USACE018-44 DOD			Date Received:	
Client Sample ID:	PB169259BS			SDG No.:	Q2819
Lab Sample ID:	PB169259BS			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	100
Sample Wt/Vol:	30.02	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOC-TCL BNA -20
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP025514.D	1	08/15/25 08:25	08/20/25 19:49	PB169259

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1600		22.4	130	170	ug/Kg
50-32-8	Benzo(a)pyrene	1500		29.5	130	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1500		29.1	130	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1500		27.4	130	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1500		25.7	130	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1600		25.6	130	170	ug/Kg
123-91-1	1,4-Dioxane	1300		45.2	130	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1500		27.4	130	170	ug/Kg
SURROGATES							
367-12-4	2-Fluorophenol	127		35 - 115		85%	SPK: 150
13127-88-3	Phenol-d6	120		34 - 127		80%	SPK: 150
4165-60-0	Nitrobenzene-d5	82.7		37 - 122		83%	SPK: 100
321-60-8	2-Fluorobiphenyl	82.3		44 - 115		82%	SPK: 100
118-79-6	2,4,6-Tribromophenol	129		39 - 132		86%	SPK: 150
1718-51-0	Terphenyl-d14	76.9		54 - 127		77%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	193000	7.784				
1146-65-2	Naphthalene-d8	716000	10.56				
15067-26-2	Acenaphthene-d10	416000	14.401				
1517-22-2	Phenanthrene-d10	793000	17.195				
1719-03-5	Chrysene-d12	903000	21.648				
1520-96-3	Perylene-d12	1090000	25.024				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025514.D
Acq On : 20 Aug 2025 19:49
Operator : CG/JU
Sample : PB169259BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB169259BS

Quant Time: Aug 21 01:36:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.784	152	193210	20.000	ng		-0.01
21) Naphthalene-d8	10.560	136	716493	20.000	ng		0.00
39) Acenaphthene-d10	14.401	164	415906	20.000	ng		0.00
64) Phenanthrene-d10	17.195	188	793030	20.000	ng		0.00
76) Chrysene-d12	21.648	240	903156	20.000	ng		0.00
86) Perylene-d12	25.024	264	1093749	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.408	112	1482206	127.400	ng		0.00
7) Phenol-d6	6.972	99	1793190	120.218	ng		0.00
23) Nitrobenzene-d5	8.931	82	1171537	82.712	ng		0.00
42) 2,4,6-Tribromophenol	15.913	330	722062	128.983	ng		0.00
45) 2-Fluorobiphenyl	13.019	172	2505695	82.338	ng		0.00
79) Terphenyl-d14	19.925	244	3796862	76.915	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.331	88	174220	38.230	ng		98
3) Pyridine	3.725	79	474202	38.018	ng		96
4) n-Nitrosodimethylamine	3.631	42	239558	46.586	ng		96
6) Aniline	7.119	93	645772	32.133	ng		98
8) 2-Chlorophenol	7.361	128	572945	43.641	ng		98
9) Benzaldehyde	6.937	77	263614	25.225	ng		98
10) Phenol	6.996	94	667894	42.672	ng		95
11) bis(2-Chloroethyl)ether	7.214	93	519692	42.600	ng		97
12) 1,3-Dichlorobenzene	7.678	146	630575	43.558	ng		98
13) 1,4-Dichlorobenzene	7.819	146	644460	43.554	ng		99
14) 1,2-Dichlorobenzene	8.137	146	612126	42.736	ng		97
15) Benzyl Alcohol	8.025	79	493055	41.602	ng		98
16) 2,2'-oxybis(1-Chloropr...	8.302	45	696846	42.641	ng		98
17) 2-Methylphenol	8.225	107	455684	41.920	ng		100
18) Hexachloroethane	8.861	117	244923	45.019	ng		98
19) n-Nitroso-di-n-propyla...	8.584	70	374997	37.955	ng		97
20) 3+4-Methylphenols	8.549	107	601647	39.929	ng		97
22) Acetophenone	8.602	105	802741	44.676	ng	#	98
24) Nitrobenzene	8.972	77	588320	46.476	ng		98
25) Isophorone	9.496	82	1055464	42.106	ng		99
26) 2-Nitrophenol	9.672	139	303049	46.648	ng		96
27) 2,4-Dimethylphenol	9.737	122	501812	44.917	ng		97
28) bis(2-Chloroethoxy)met...	9.966	93	651737	43.013	ng		99
29) 2,4-Dichlorophenol	10.213	162	499409	44.999	ng		98
30) 1,2,4-Trichlorobenzene	10.425	180	554932	45.613	ng		97
31) Naphthalene	10.607	128	1633423	43.862	ng		100
32) Benzoic acid	9.896	122	381761	46.285	ng		98
33) 4-Chloroaniline	10.713	127	361701	21.988	ng		99
34) Hexachlorobutadiene	10.896	225	353627	46.673	ng		99
35) Caprolactam	11.496	113	163441	40.163	ng		99
36) 4-Chloro-3-methylphenol	11.837	107	542442	42.595	ng		97
37) 2-Methylnaphthalene	12.213	142	1002467	41.365	ng		98
38) 1-Methylnaphthalene	12.437	142	1048812	40.695	ng		98
40) 1,2,4,5-Tetrachloroben...	12.584	216	580153	48.298	ng		99
41) Hexachlorocyclopentadiene	12.566	237	732135	100.906	ng		99
43) 2,4,6-Trichlorophenol	12.825	196	390866	48.200	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025514.D
Acq On : 20 Aug 2025 19:49
Operator : CG/JU
Sample : PB169259BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB169259BS

Quant Time: Aug 21 01:36:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration

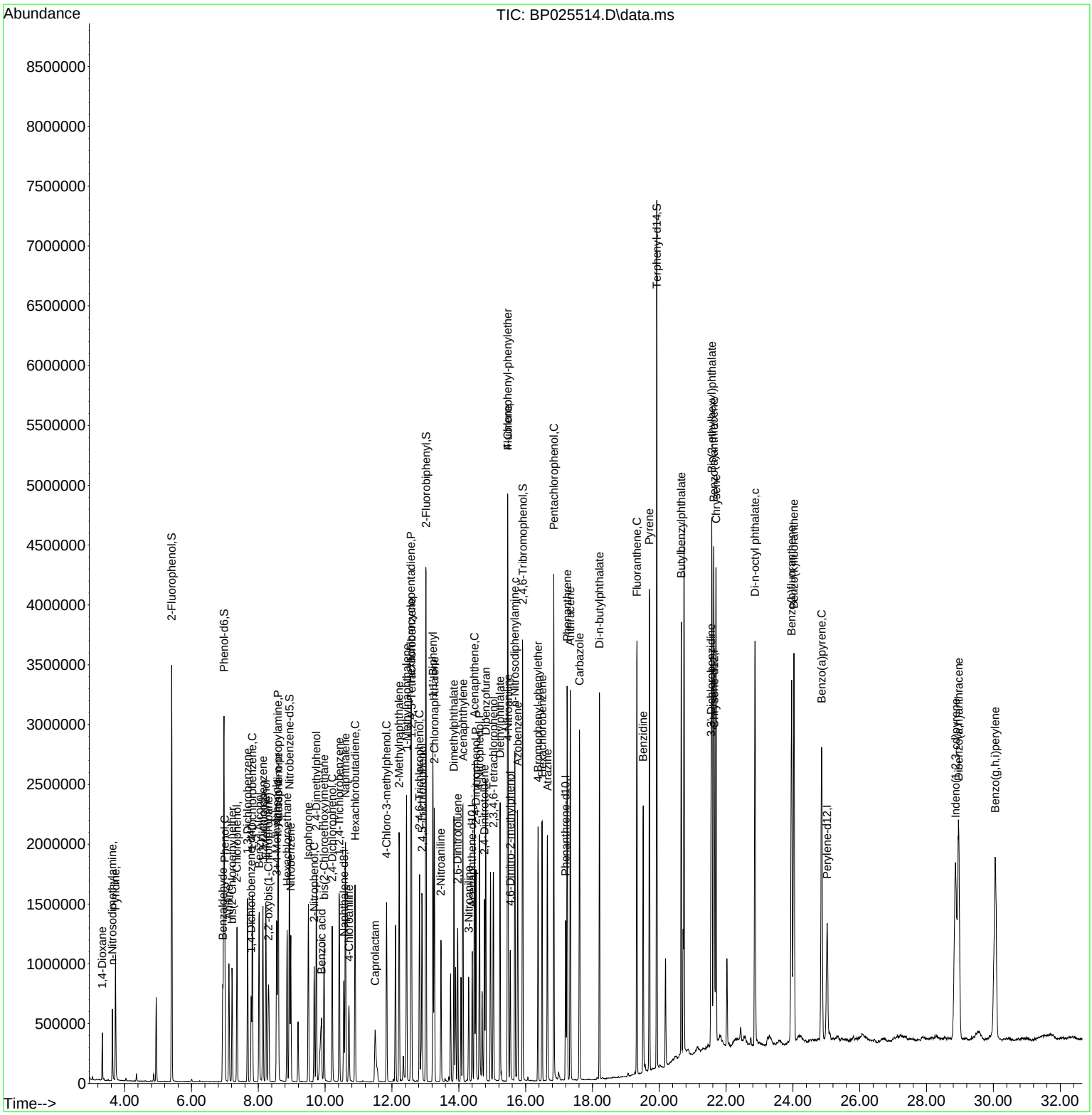
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.901	196	427836	48.139	ng	98
46) 1,1'-Biphenyl	13.225	154	1392727	46.108	ng	98
47) 2-Chloronaphthalene	13.266	162	1096171	46.617	ng	99
48) 2-Nitroaniline	13.466	65	334749	48.857	ng	98
49) Acenaphthylene	14.125	152	1772199	45.546	ng	100
50) Dimethylphthalate	13.854	163	1352833	44.419	ng	99
51) 2,6-Dinitrotoluene	13.966	165	298673	46.527	ng	95
52) Acenaphthene	14.466	154	1027103	44.971	ng	99
53) 3-Nitroaniline	14.296	138	224739	31.117	ng	95
54) 2,4-Dinitrophenol	14.513	184	369632	107.824	ng	98
55) Dibenzofuran	14.807	168	1603072	44.395	ng	99
56) 4-Nitrophenol	14.619	139	557711	93.972	ng	92
57) 2,4-Dinitrotoluene	14.766	165	424586	46.358	ng	96
58) Fluorene	15.466	166	1223490	42.940	ng	99
59) 2,3,4,6-Tetrachlorophenol	15.037	232	361689	46.089	ng	98
60) Diethylphthalate	15.237	149	1363057	44.045	ng	99
61) 4-Chlorophenyl-phenyle...	15.460	204	604052	42.627	ng	96
62) 4-Nitroaniline	15.478	138	323428	43.682	ng	95
63) Azobenzene	15.760	77	1220451	46.057	ng	97
65) 4,6-Dinitro-2-methylph...	15.543	198	253084	51.197	ng	96
66) n-Nitrosodiphenylamine	15.678	169	1120737	46.344	ng	100
67) 4-Bromophenyl-phenylether	16.372	248	404207	46.344	ng	97
68) Hexachlorobenzene	16.495	284	457964	45.296	ng	97
69) Atrazine	16.654	200	429920	47.471	ng	99
70) Pentachlorophenol	16.842	266	630521	98.793	ng	97
71) Phenanthrene	17.242	178	1991575	45.716	ng	100
72) Anthracene	17.337	178	2065289	46.424	ng	100
73) Carbazole	17.613	167	1958150	46.730	ng	99
74) Di-n-butylphthalate	18.207	149	2408862	46.724	ng	100
75) Fluoranthene	19.331	202	2421989	46.609	ng	99
77) Benzidine	19.519	184	1350558	43.817	ng	99
78) Pyrene	19.701	202	2537821	43.232	ng	100
80) Butylbenzylphthalate	20.660	149	1274909	47.921	ng	99
81) Benzo(a)anthracene	21.630	228	2791590	46.868	ng	99
82) 3,3'-Dichlorobenzidine	21.548	252	796924	35.496	ng	100
83) Chrysene	21.701	228	2622312	47.011	ng	99
84) Bis(2-ethylhexyl)phtha...	21.572	149	1909245	48.751	ng	100
85) Di-n-octyl phthalate	22.866	149	3541294	52.570	ng	99
87) Indeno(1,2,3-cd)pyrene	28.865	276	3615356	45.073	ng	99
88) Benzo(b)fluoranthene	23.960	252	2951588	45.764	ng	100
89) Benzo(k)fluoranthene	24.030	252	3008563	46.616	ng	99
90) Benzo(a)pyrene	24.860	252	2866956	45.666	ng	99
91) Dibenzo(a,h)anthracene	28.959	278	2975886	45.399	ng	98
92) Benzo(g,h,i)perylene	30.054	276	2900628	45.017	ng	98

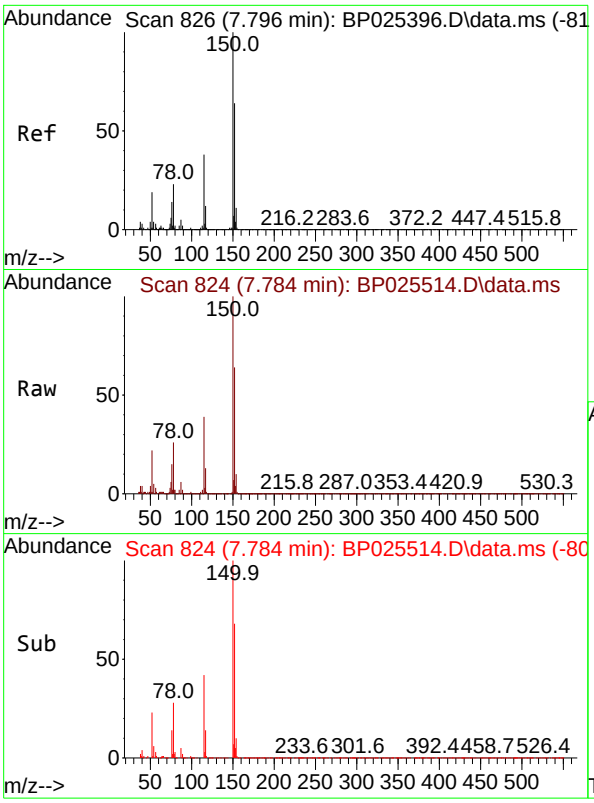
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025514.D
Acq On : 20 Aug 2025 19:49
Operator : CG/JU
Sample : PB169259BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB169259BS

Quant Time: Aug 21 01:36:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration



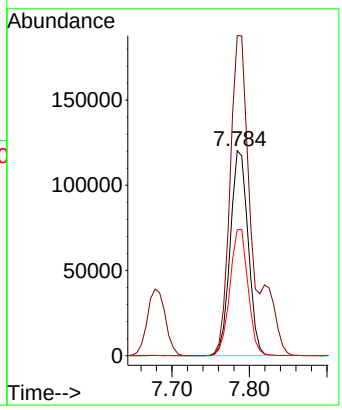


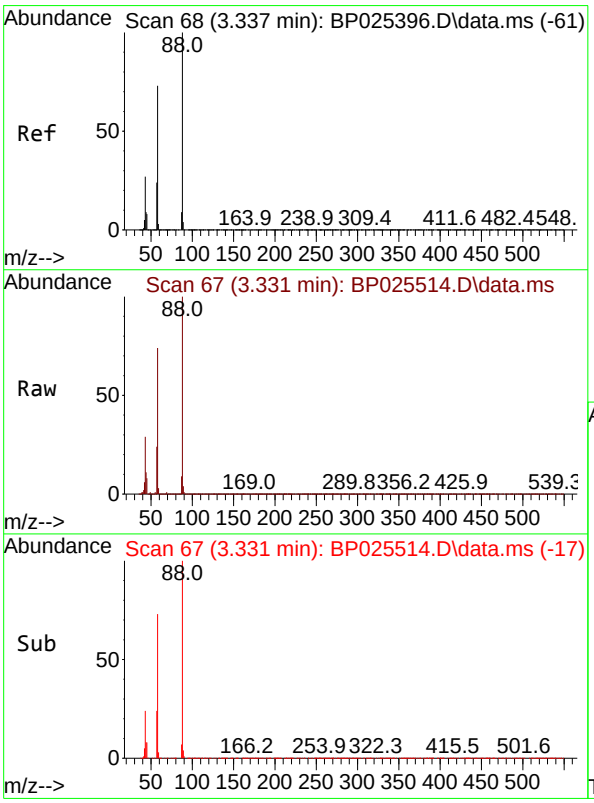
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.784 min Scan# 8
Delta R.T. -0.012 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Instrument :
BNA_P
ClientSampleId :
PB169259BS

Tgt Ion:152 Resp: 193210

Ion	Ratio	Lower	Upper
152	100		
150	156.2	125.9	188.9
115	61.4	48.5	72.7

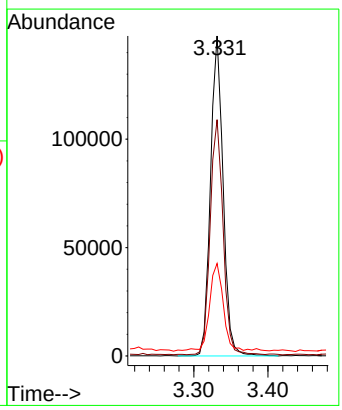


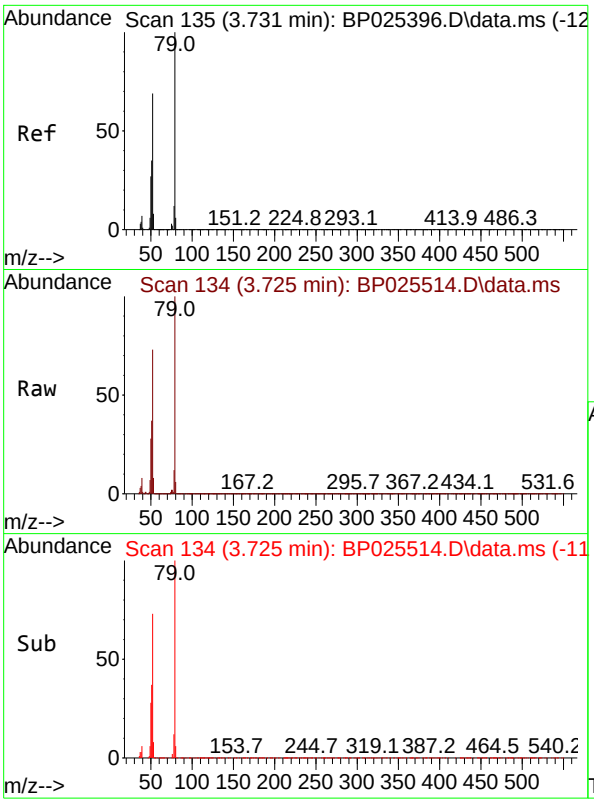


#2
1,4-Dioxane
Concen: 38.230 ng
RT: 3.331 min Scan# 67
Delta R.T. -0.006 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Tgt Ion: 88 Resp: 174220

Ion	Ratio	Lower	Upper
88	100		
58	75.1	59.2	88.8
43	30.0	21.7	32.5



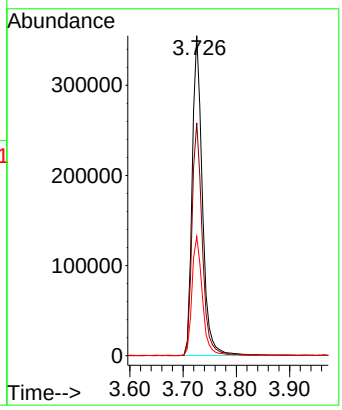


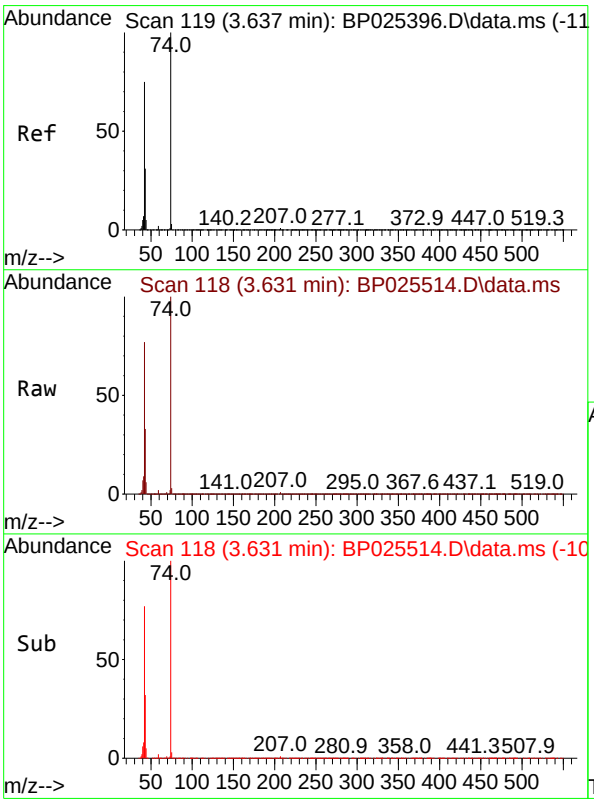
#3
Pyridine
Concen: 38.018 ng
RT: 3.725 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Instrument :
BNA_P
ClientSampleId :
PB169259BS

Tgt Ion: 79 Resp: 474202

Ion	Ratio	Lower	Upper
79	100		
52	72.8	55.5	83.3
51	37.2	28.3	42.5

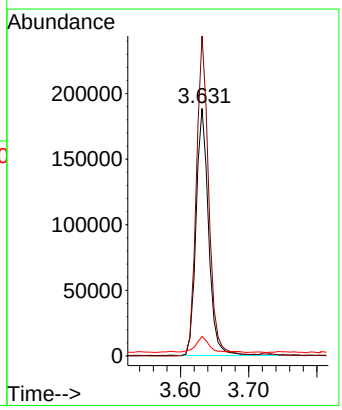


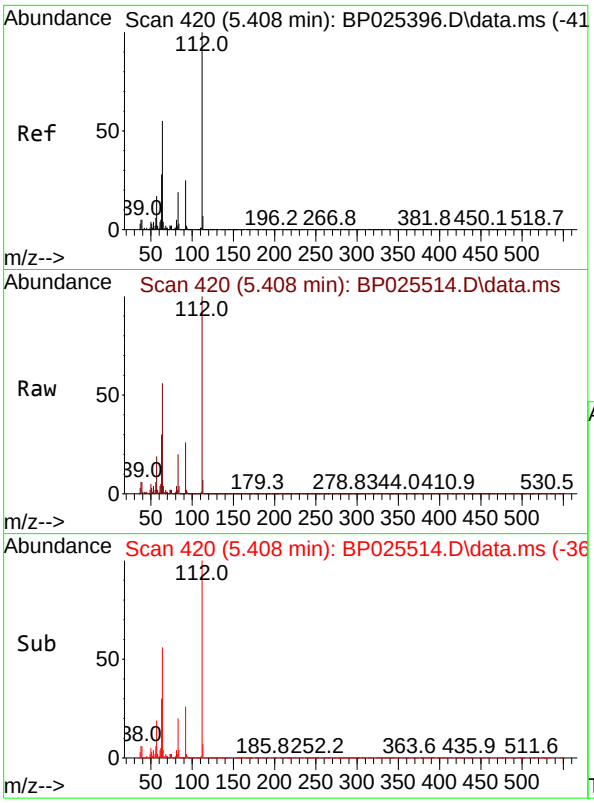


#4
n-Nitrosodimethylamine
Concen: 46.586 ng
RT: 3.631 min Scan# 118
Delta R.T. -0.006 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Tgt Ion: 42 Resp: 239558

Ion	Ratio	Lower	Upper
42	100		
74	129.3	107.0	160.4
44	7.9	6.2	9.4



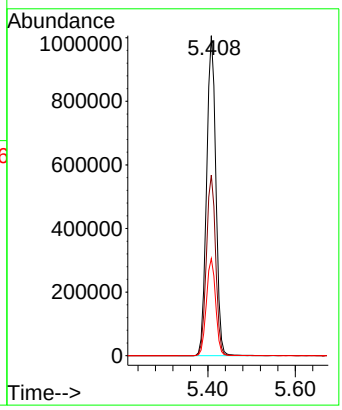


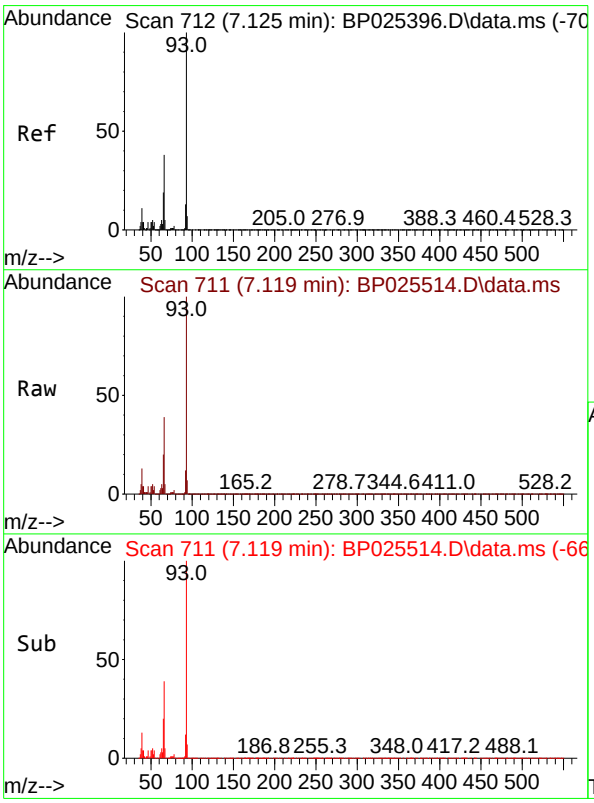
#5
2-Fluorophenol
Concen: 127.400 ng
RT: 5.408 min Scan# 4
Delta R.T. 0.000 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Instrument :
BNA_P
ClientSampleId :
PB169259BS

Tgt Ion:112 Resp: 1482206

Ion	Ratio	Lower	Upper
112	100		
64	56.4	43.8	65.8
63	30.4	22.7	34.1

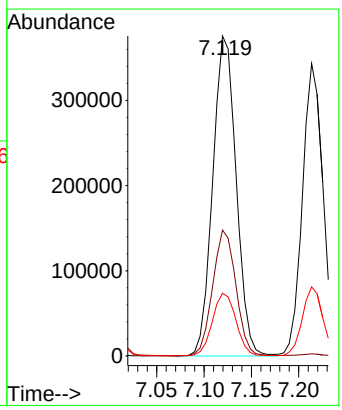


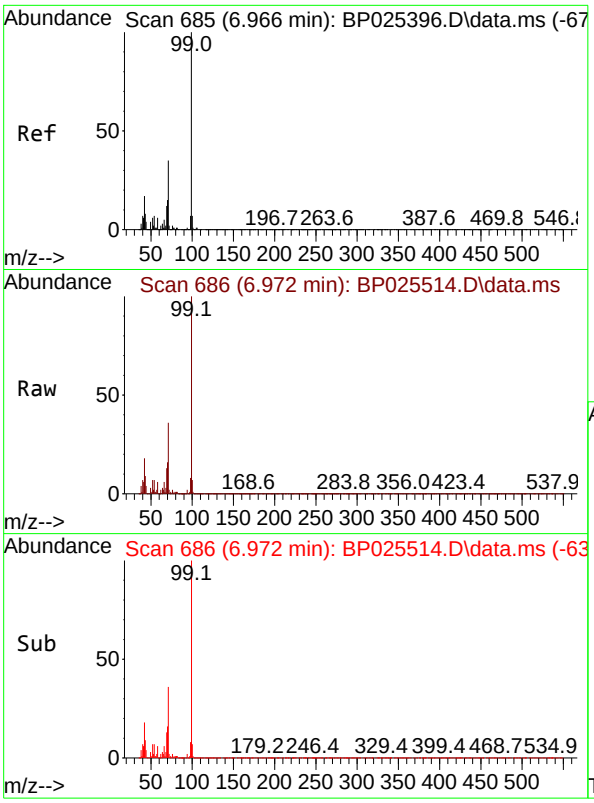


#6
Aniline
Concen: 32.133 ng
RT: 7.119 min Scan# 711
Delta R.T. -0.006 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Tgt Ion: 93 Resp: 645772

Ion	Ratio	Lower	Upper
93	100		
66	39.4	30.4	45.6
65	19.6	15.3	22.9



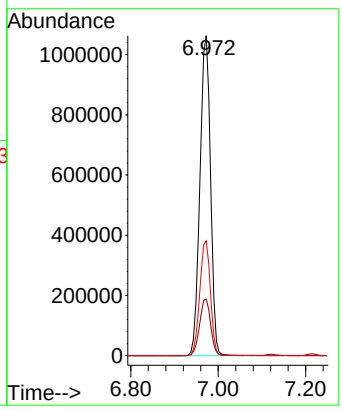


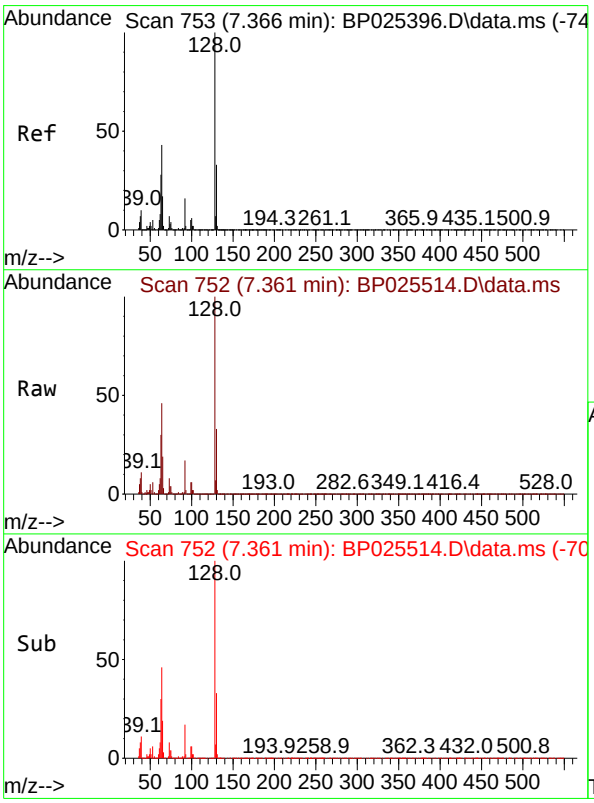
#7
Phenol-d6
Concen: 120.218 ng
RT: 6.972 min Scan# 6
Delta R.T. 0.006 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Instrument :
BNA_P
ClientSampleId :
PB169259BS

Tgt Ion: 99 Resp: 1793190

Ion	Ratio	Lower	Upper
99	100		
42	17.8	13.7	20.5
71	35.9	28.2	42.4

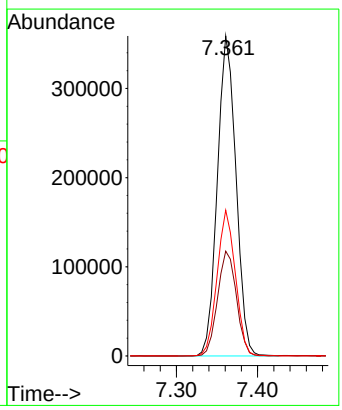


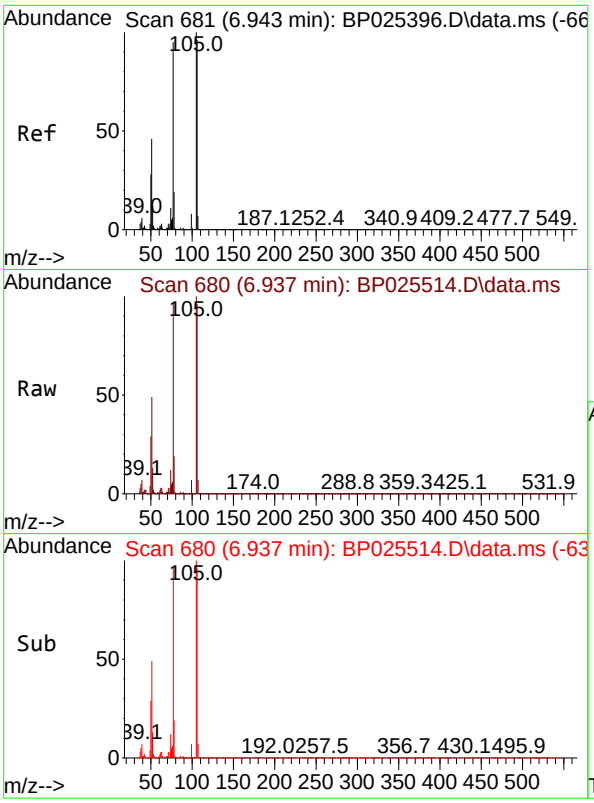


#8
2-Chlorophenol
Concen: 43.641 ng
RT: 7.361 min Scan# 752
Delta R.T. -0.006 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Tgt Ion:128 Resp: 572945

Ion	Ratio	Lower	Upper
128	100		
130	32.7	12.6	52.6
64	45.6	23.4	63.4



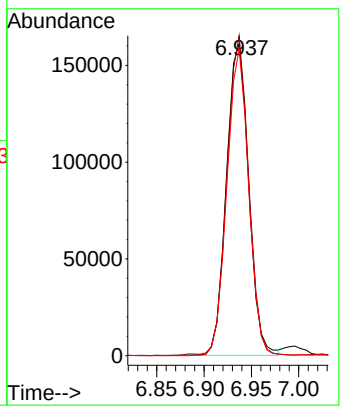


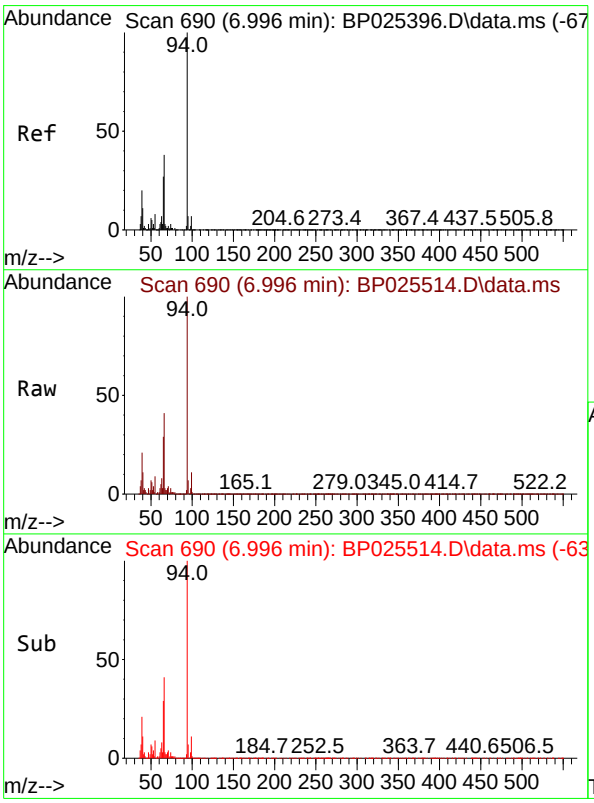
#9
Benzaldehyde
Concen: 25.225 ng
RT: 6.937 min Scan# 6
Delta R.T. -0.006 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Instrument :
BNA_P
ClientSampleId :
PB169259BS

Tgt Ion: 77 Resp: 263614

Ion	Ratio	Lower	Upper
77	100		
105	102.6	84.8	124.8
106	98.3	80.5	120.5

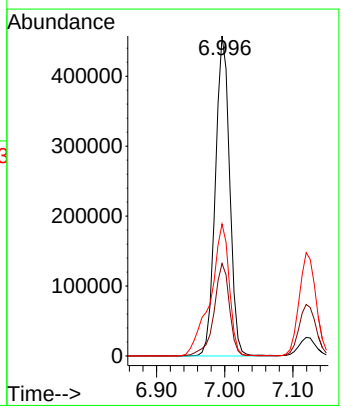


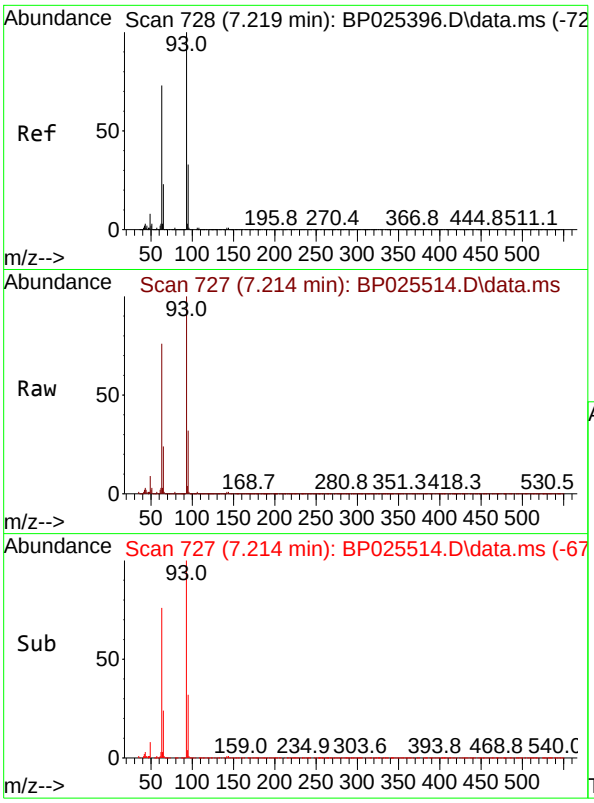


#10
Phenol
Concen: 42.672 ng
RT: 6.996 min Scan# 690
Delta R.T. 0.000 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Tgt Ion: 94 Resp: 667894

Ion	Ratio	Lower	Upper
94	100		
65	28.9	6.8	46.8
66	41.2	18.2	58.2



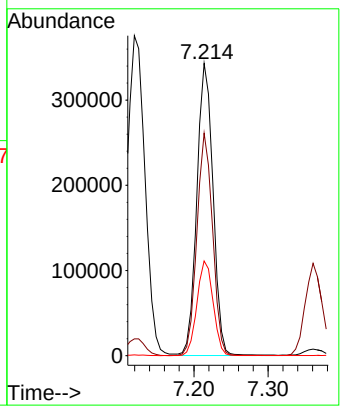


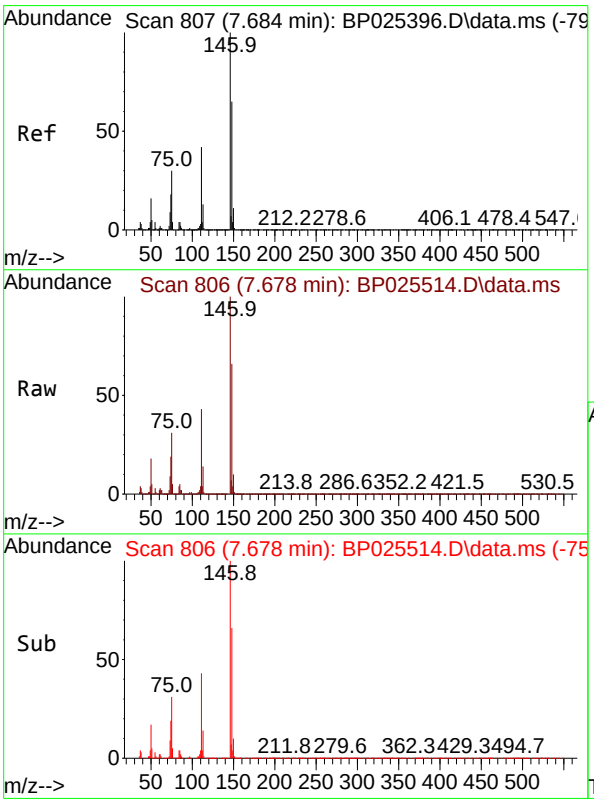
#11
bis(2-Chloroethyl)ether
Concen: 42.600 ng
RT: 7.214 min Scan# 7
Delta R.T. -0.006 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Instrument :
BNA_P
ClientSampleId :
PB169259BS

Tgt Ion: 93 Resp: 519692

Ion	Ratio	Lower	Upper
93	100		
63	76.1	52.6	92.6
95	32.4	12.7	52.7

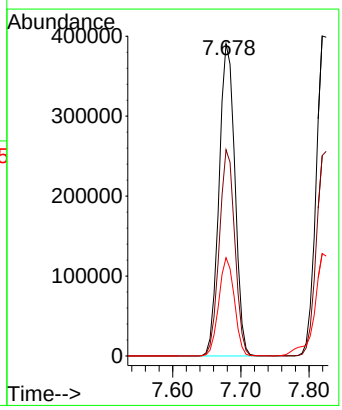


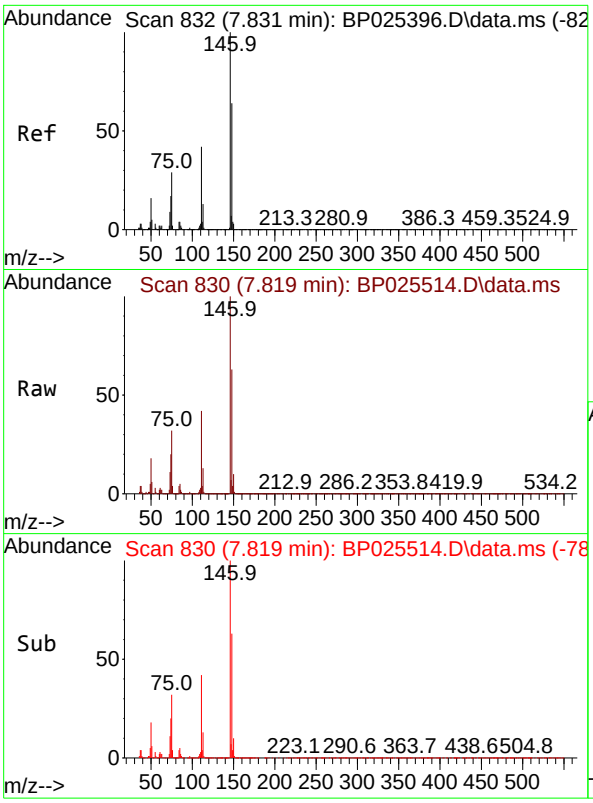


#12
1,3-Dichlorobenzene
Concen: 43.558 ng
RT: 7.678 min Scan# 806
Delta R.T. -0.006 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Tgt Ion:146 Resp: 630575

Ion	Ratio	Lower	Upper
146	100		
148	66.1	51.9	77.9
75	31.5	23.7	35.5



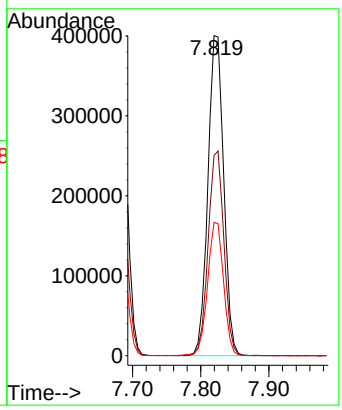


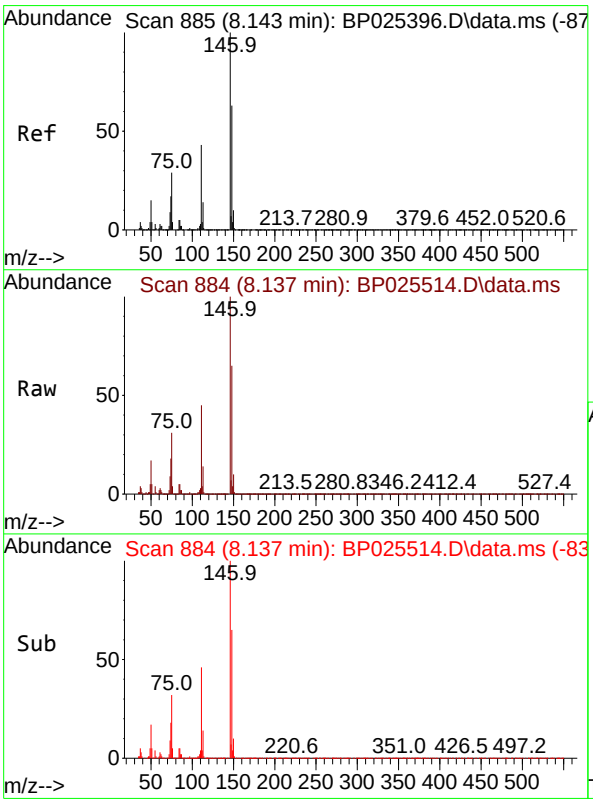
#13
1,4-Dichlorobenzene
Concen: 43.554 ng
RT: 7.819 min Scan# 8
Delta R.T. -0.012 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Instrument :
BNA_P
ClientSampleId :
PB169259BS

Tgt Ion:146 Resp: 644460

Ion	Ratio	Lower	Upper
146	100		
148	62.6	51.6	77.4
111	41.7	33.4	50.0

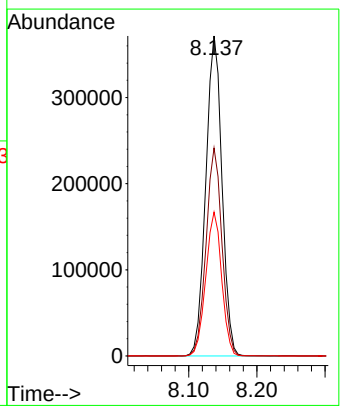


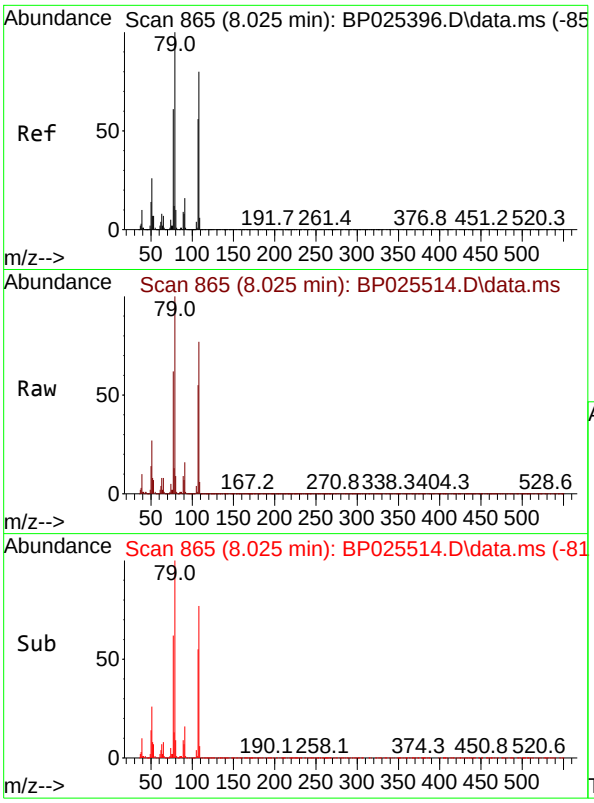


#14
1,2-Dichlorobenzene
Concen: 42.736 ng
RT: 8.137 min Scan# 884
Delta R.T. -0.006 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Tgt Ion:146 Resp: 612126

Ion	Ratio	Lower	Upper
146	100		
148	65.0	50.4	75.6
111	45.0	34.5	51.7



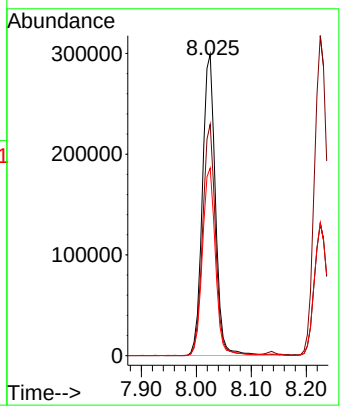


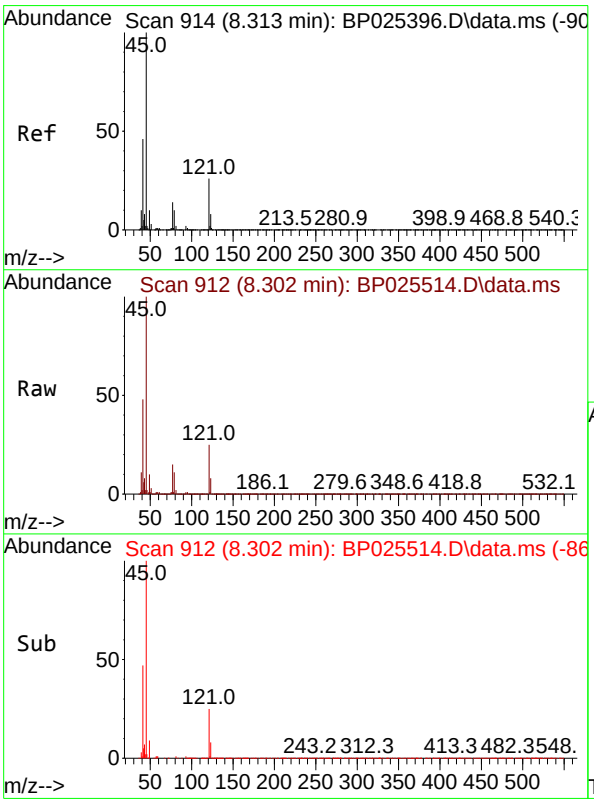
#15
Benzyl Alcohol
Concen: 41.602 ng
RT: 8.025 min Scan# 8
Delta R.T. 0.000 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Instrument :
BNA_P
ClientSampleId :
PB169259BS

Tgt Ion: 79 Resp: 493055

Ion	Ratio	Lower	Upper
79	100		
108	76.8	63.8	95.6
77	62.2	49.0	73.4

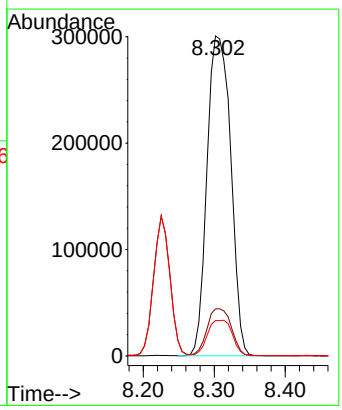


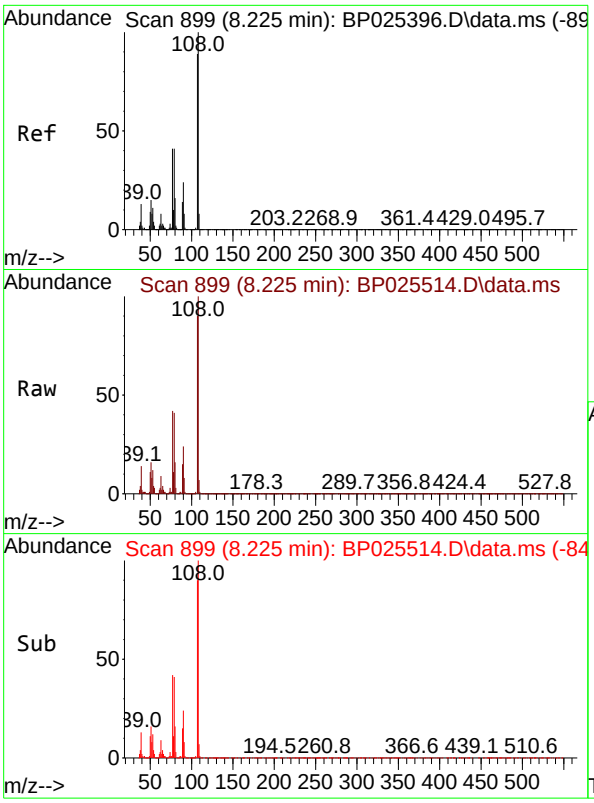


#16
2,2'-oxybis(1-Chloropropane)
Concen: 42.641 ng
RT: 8.302 min Scan# 912
Delta R.T. -0.012 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Tgt Ion: 45 Resp: 696846

Ion	Ratio	Lower	Upper
45	100		
77	14.7	0.0	35.3
79	11.0	0.0	31.8



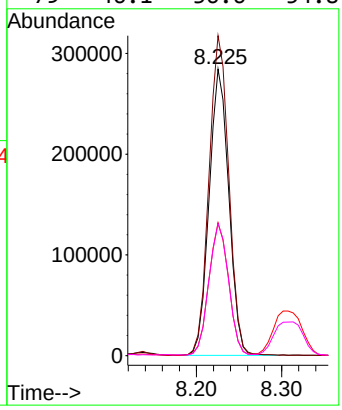


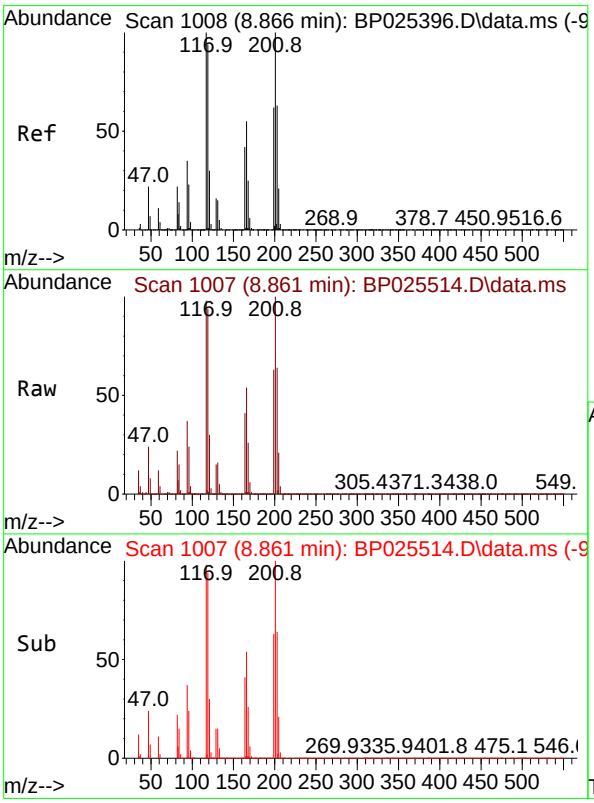
#17
2-Methylphenol
Concen: 41.920 ng
RT: 8.225 min Scan# 8
Delta R.T. 0.000 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Instrument :
BNA_P
ClientSampleId :
PB169259BS

Tgt Ion:107 Resp: 455684

Ion	Ratio	Lower	Upper
107	100		
108	111.7	89.4	134.0
77	46.4	36.3	54.5
79	46.1	36.6	54.8

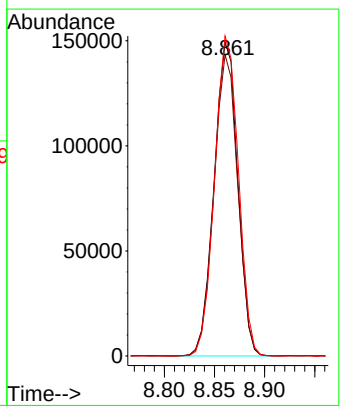


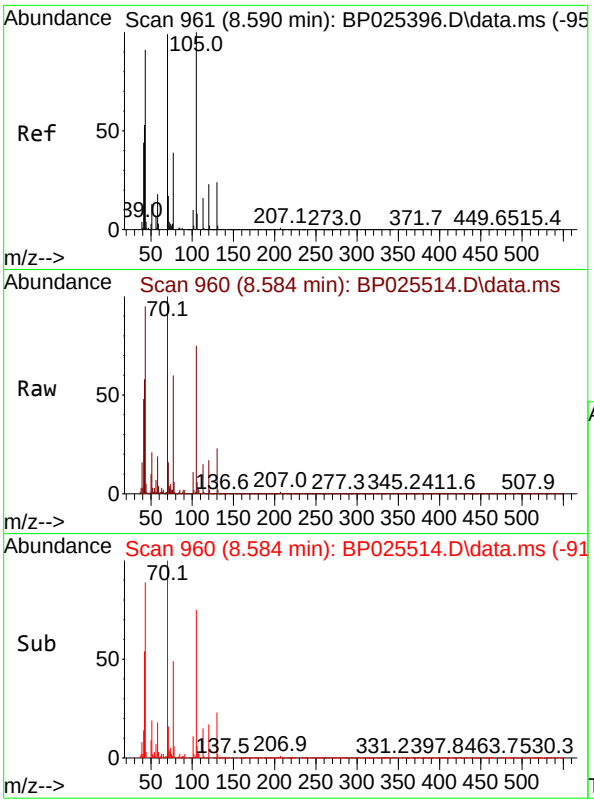


#18
Hexachloroethane
Concen: 45.019 ng
RT: 8.861 min Scan# 1007
Delta R.T. -0.006 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Tgt Ion:117 Resp: 244923

Ion	Ratio	Lower	Upper
117	100		
119	96.1	75.1	112.7
201	102.0	80.1	120.1



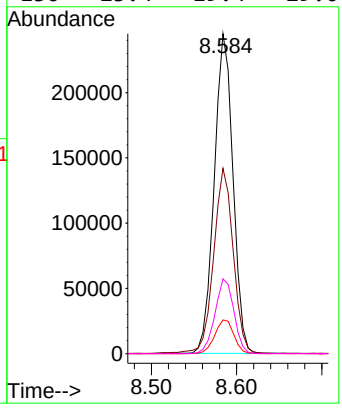


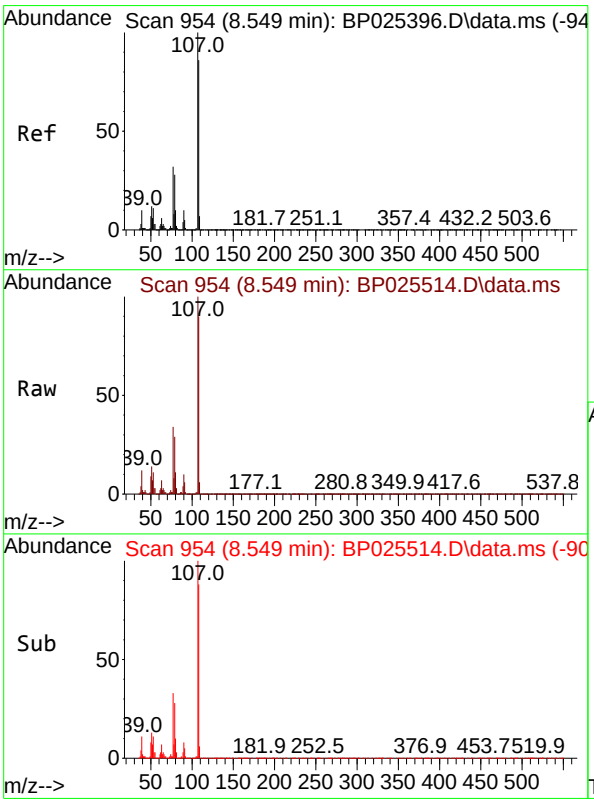
#19
n-Nitroso-di-n-propylamine
Concen: 37.955 ng
RT: 8.584 min Scan# 9
Delta R.T. -0.006 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Instrument :
BNA_P
ClientSampleId :
PB169259BS

Tgt Ion: 70 Resp: 374997

Ion	Ratio	Lower	Upper
70	100		
42	57.9	43.8	65.6
101	10.5	8.5	12.7
130	23.4	19.4	29.0

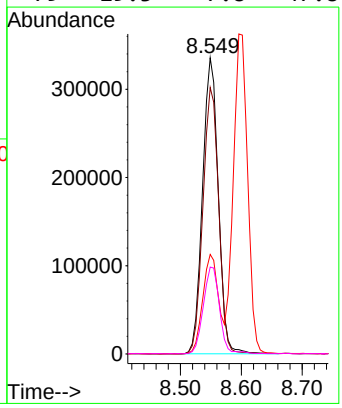


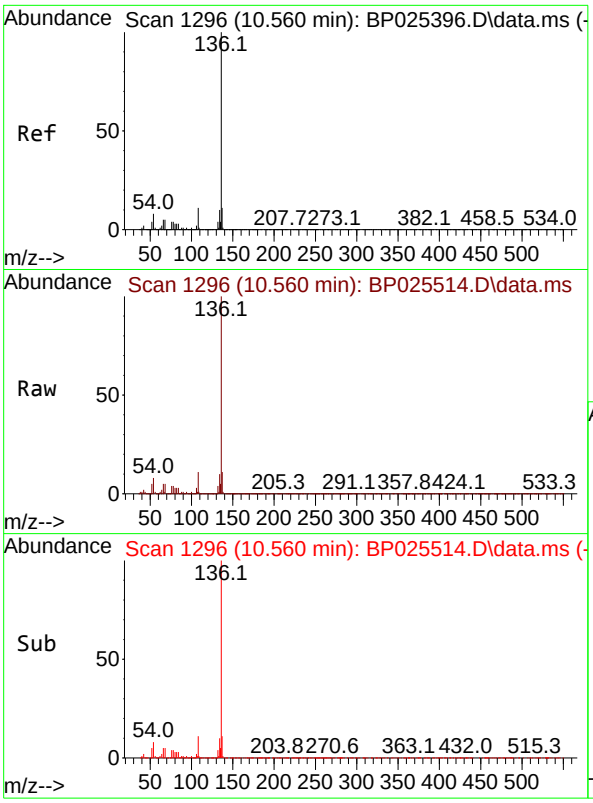


#20
3+4-Methylphenols
Concen: 39.929 ng
RT: 8.549 min Scan# 954
Delta R.T. 0.000 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Tgt Ion:107 Resp: 601647

Ion	Ratio	Lower	Upper
107	100		
108	90.0	66.3	106.3
77	33.6	12.3	52.3
79	29.3	7.8	47.8



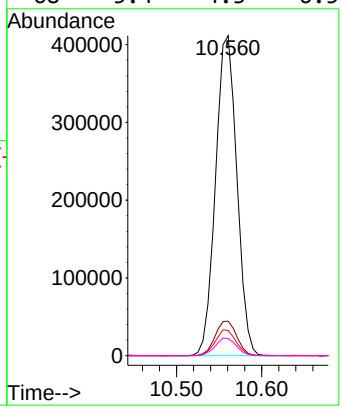


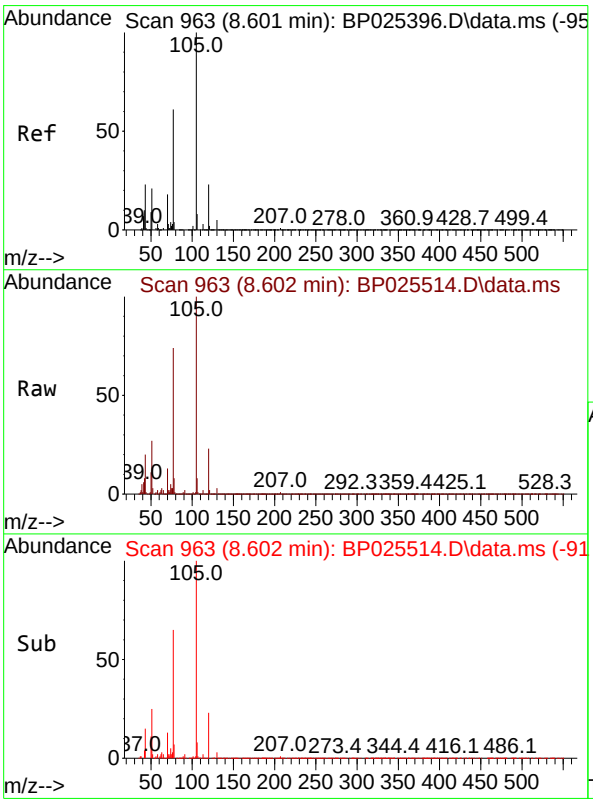
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.560 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Instrument :
BNA_P
ClientSampleId :
PB169259BS

Tgt Ion:136 Resp: 716493

Ion	Ratio	Lower	Upper
136	100		
137	10.8	9.2	13.8
54	7.8	6.0	9.0
68	5.4	4.3	6.5

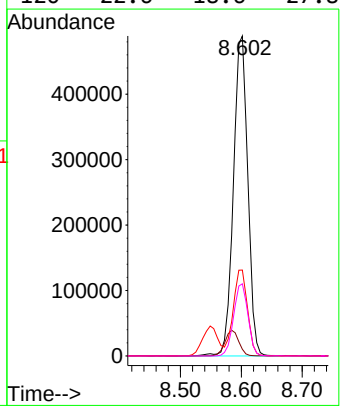


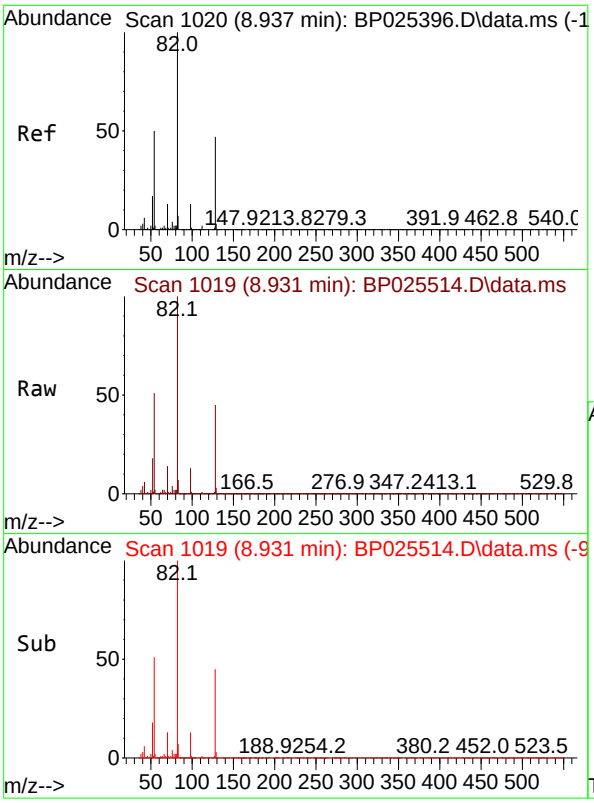


#22
Acetophenone
Concen: 44.676 ng
RT: 8.602 min Scan# 963
Delta R.T. 0.000 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Tgt Ion:105 Resp: 802741

Ion	Ratio	Lower	Upper
105	100		
71	2.1	2.6	4.0#
51	26.8	20.6	30.8
120	22.6	18.6	27.8



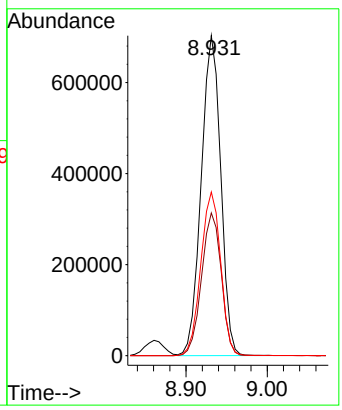


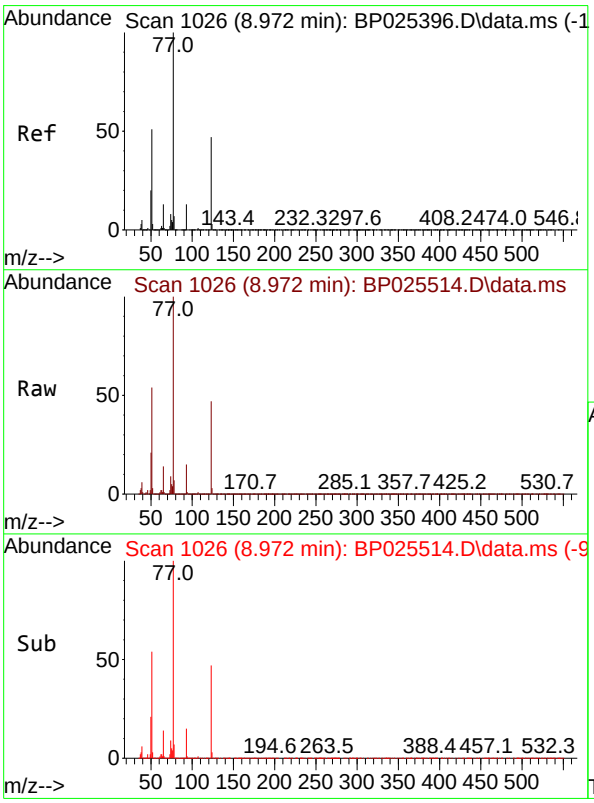
#23
Nitrobenzene-d5
Concen: 82.712 ng
RT: 8.931 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Instrument :
BNA_P
ClientSampleId :
PB169259BS

Tgt Ion: 82 Resp: 1171537

Ion	Ratio	Lower	Upper
82	100		
128	44.6	37.7	56.5
54	51.1	39.8	59.6

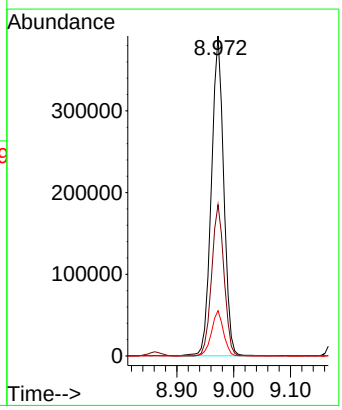


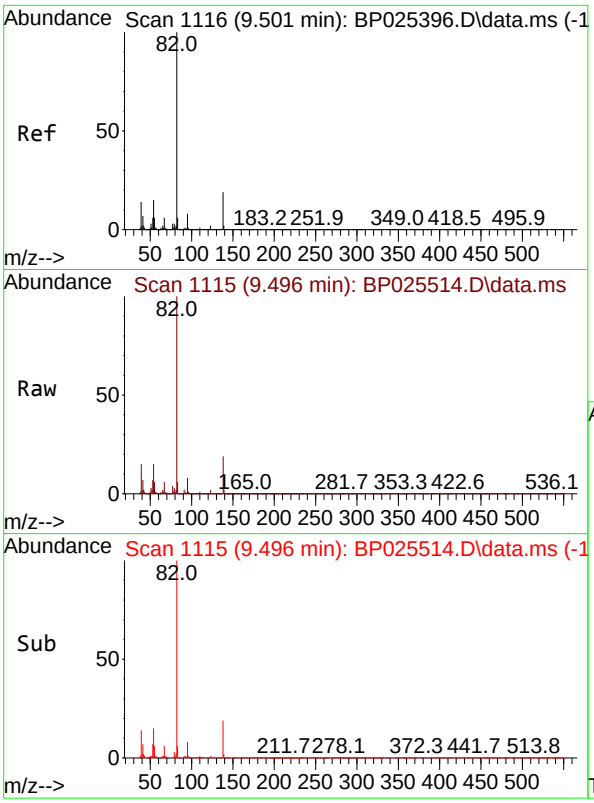


#24
Nitrobenzene
Concen: 46.476 ng
RT: 8.972 min Scan# 1026
Delta R.T. 0.000 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Tgt Ion: 77 Resp: 588320

Ion	Ratio	Lower	Upper
77	100		
123	47.3	38.6	58.0
65	14.2	10.6	15.8



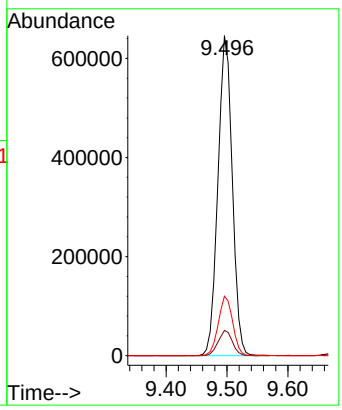


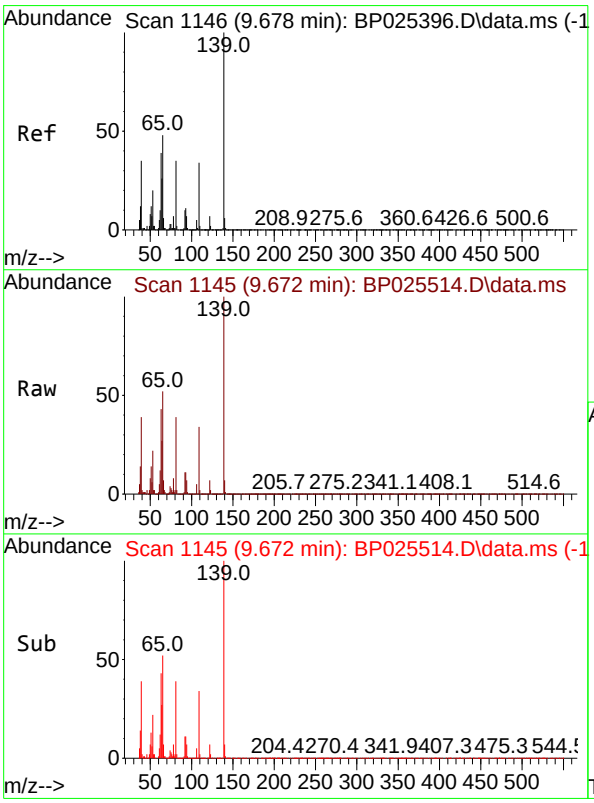
#25
Isophorone
Concen: 42.106 ng
RT: 9.496 min Scan# 11
Delta R.T. -0.006 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Instrument :
BNA_P
ClientSampleId :
PB169259BS

Tgt Ion: 82 Resp: 1055464

Ion	Ratio	Lower	Upper
82	100		
95	7.9	6.4	9.6
138	18.6	15.4	23.0

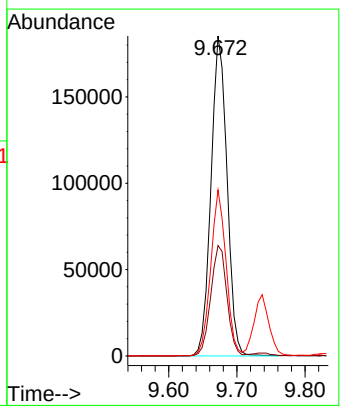


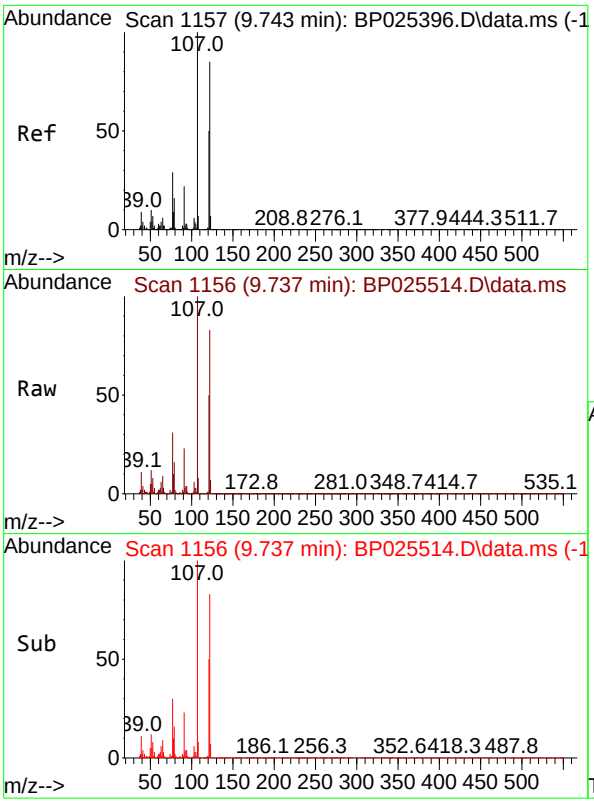


#26
2-Nitrophenol
Concen: 46.648 ng
RT: 9.672 min Scan# 1145
Delta R.T. -0.006 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Tgt Ion:139 Resp: 303049

Ion	Ratio	Lower	Upper
139	100		
109	34.5	26.9	40.3
65	51.9	38.3	57.5



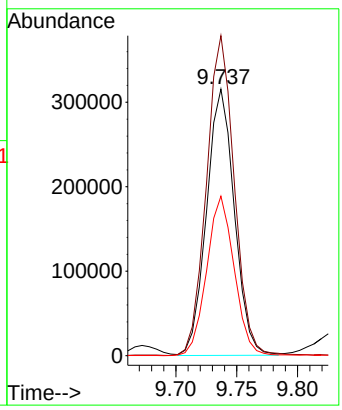


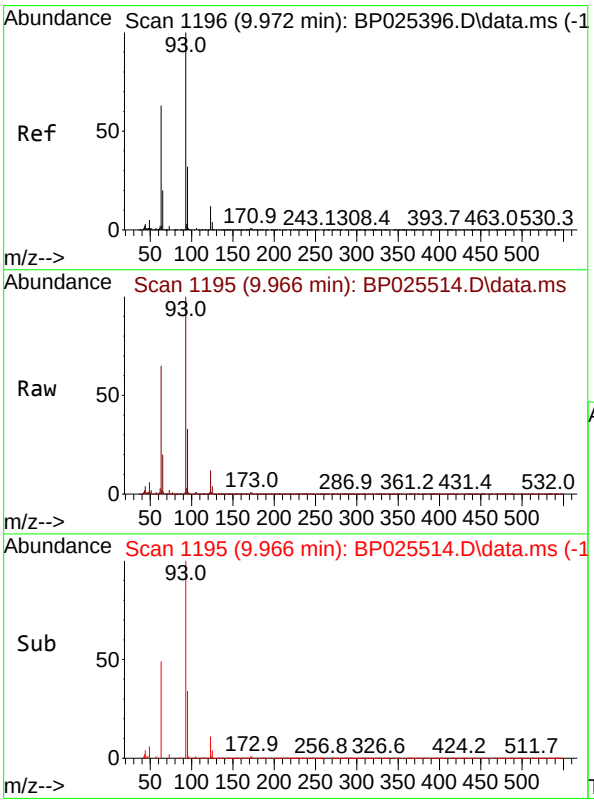
#27
2,4-Dimethylphenol
Concen: 44.917 ng
RT: 9.737 min Scan# 11
Delta R.T. -0.006 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Instrument :
BNA_P
ClientSampleId :
PB169259BS

Tgt Ion:122 Resp: 501812

Ion	Ratio	Lower	Upper
122	100		
107	120.1	93.7	140.5
121	59.9	46.6	69.8

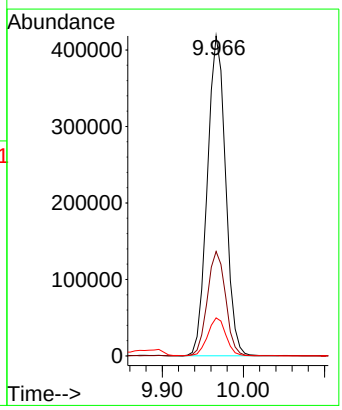


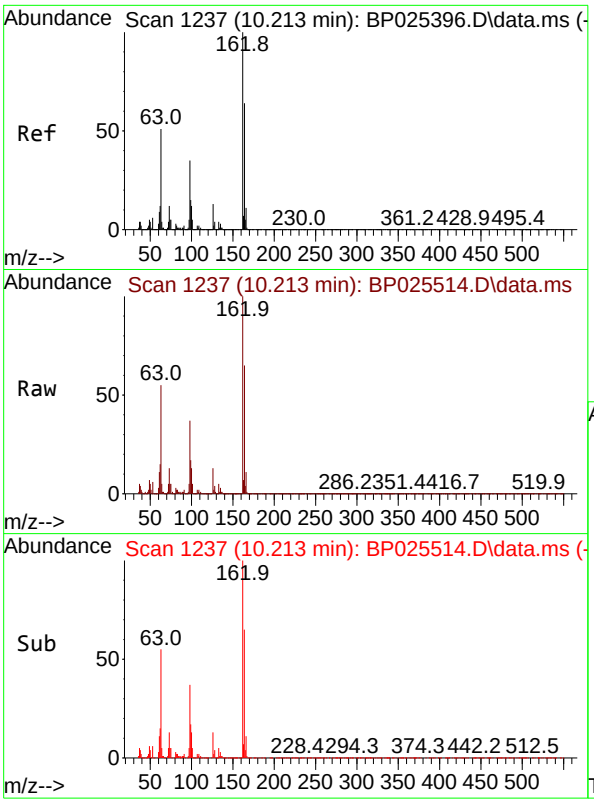


#28
bis(2-Chloroethoxy)methane
Concen: 43.013 ng
RT: 9.966 min Scan# 1195
Delta R.T. -0.006 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Tgt Ion: 93 Resp: 651737

Ion	Ratio	Lower	Upper
93	100		
95	32.7	25.4	38.0
123	11.9	9.4	14.0



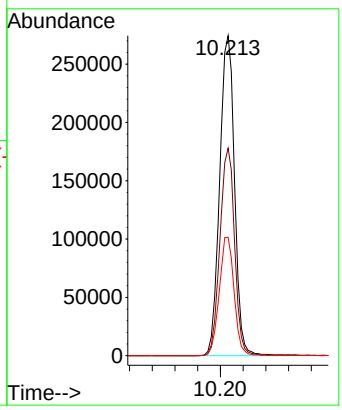


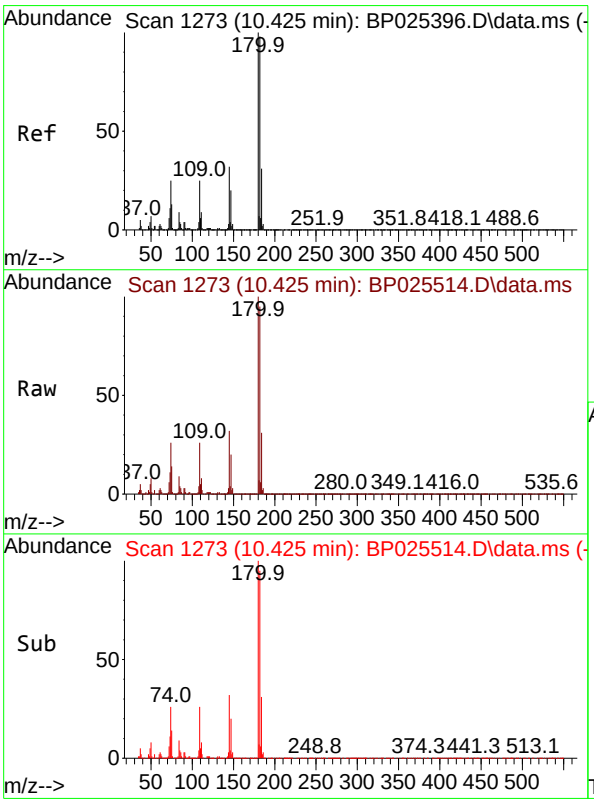
#29
2,4-Dichlorophenol
Concen: 44.999 ng
RT: 10.213 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Instrument :
BNA_P
ClientSampleId :
PB169259BS

Tgt Ion:162 Resp: 499409

Ion	Ratio	Lower	Upper
162	100		
164	64.8	44.4	84.4
98	37.0	14.9	54.9

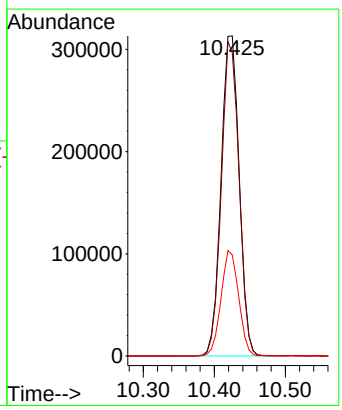


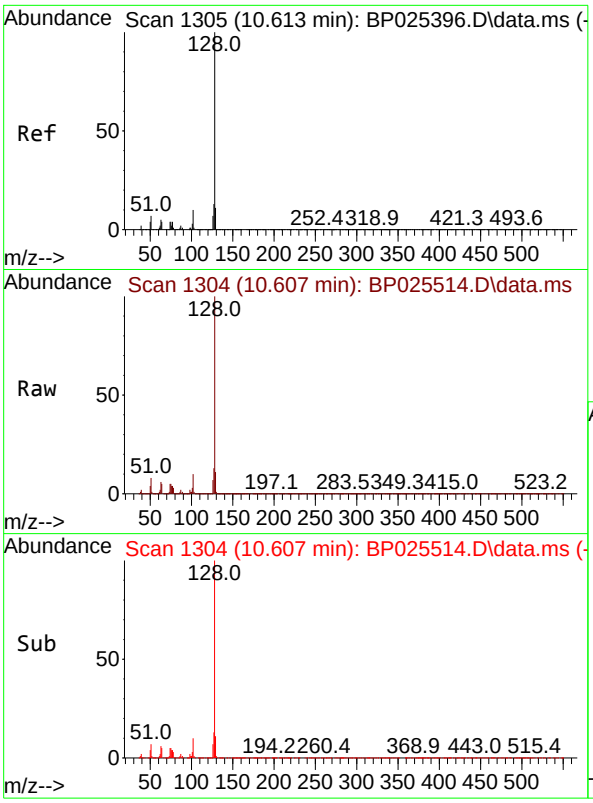


#30
1,2,4-Trichlorobenzene
Concen: 45.613 ng
RT: 10.425 min Scan# 1273
Delta R.T. 0.000 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Tgt Ion:180 Resp: 554932

Ion	Ratio	Lower	Upper
180	100		
182	94.7	78.0	117.0
145	31.5	25.9	38.9



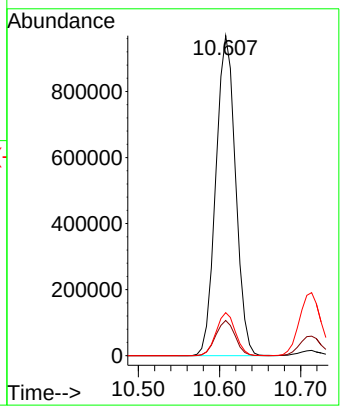


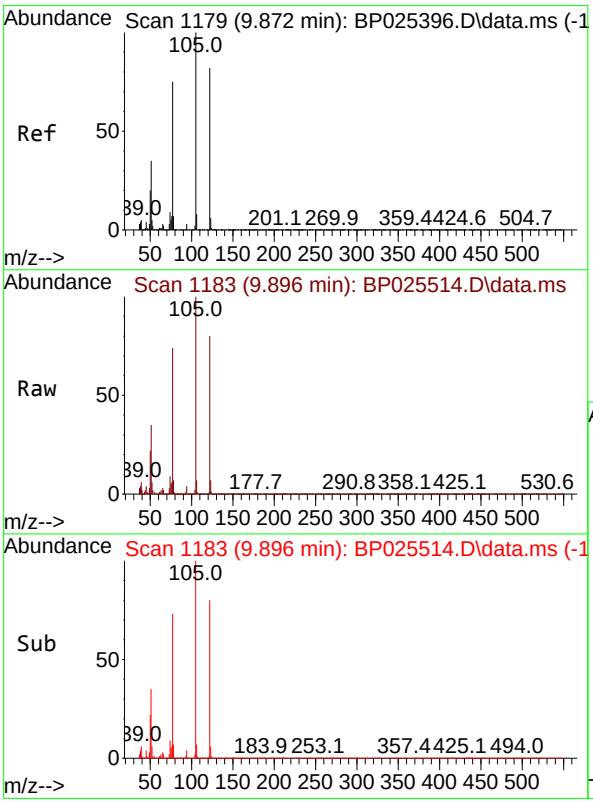
#31
Naphthalene
Concen: 43.862 ng
RT: 10.607 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Instrument :
BNA_P
ClientSampleId :
PB169259BS

Tgt Ion:128 Resp: 1633423

Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.6	13.0
127	13.4	10.7	16.1

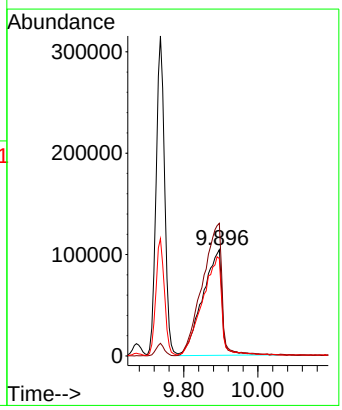


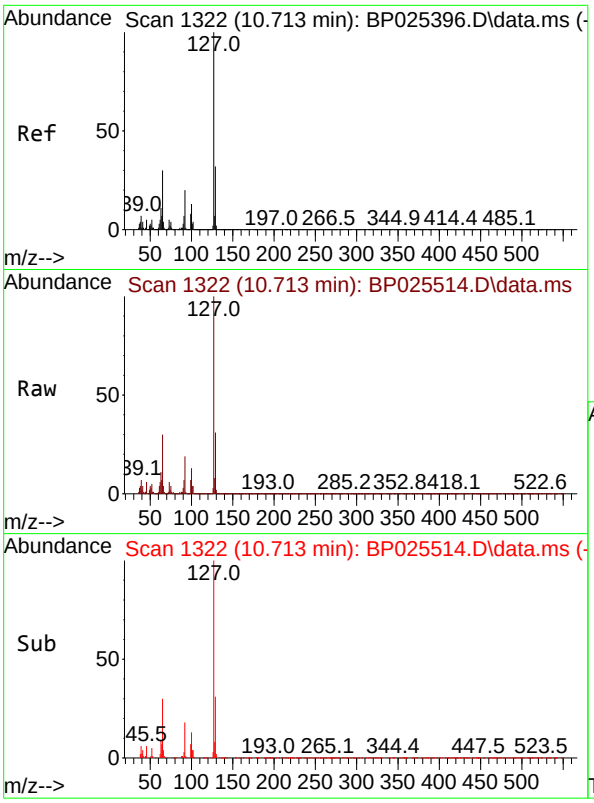


#32
Benzoic acid
Concen: 46.285 ng
RT: 9.896 min Scan# 1183
Delta R.T. 0.024 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Tgt Ion:122 Resp: 381761

Ion	Ratio	Lower	Upper
122	100		
105	124.8	100.6	140.6
77	91.8	71.5	111.5



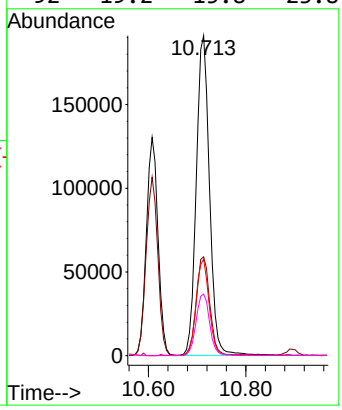


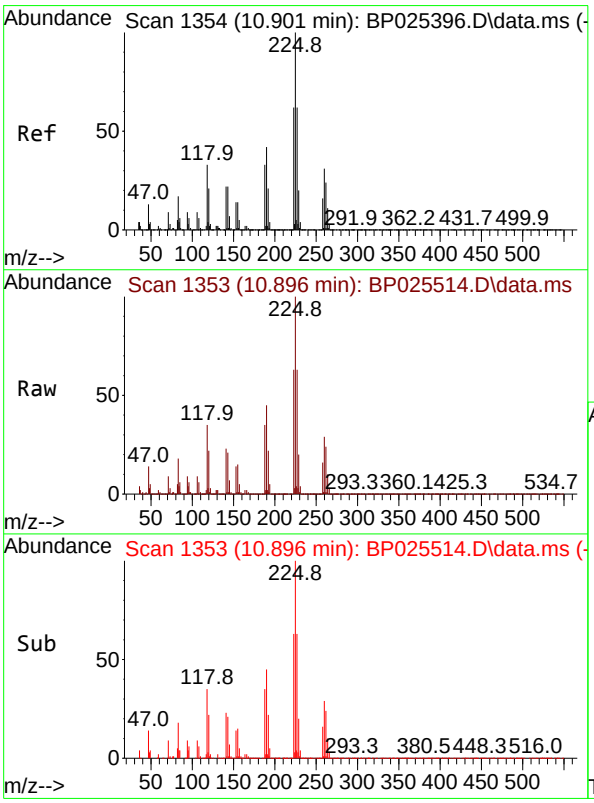
#33
4-Chloroaniline
Concen: 21.988 ng
RT: 10.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Instrument :
BNA_P
ClientSampleId :
PB169259BS

Tgt Ion:127 Resp: 361701

Ion	Ratio	Lower	Upper
127	100		
129	30.9	25.4	38.2
65	30.1	23.8	35.6
92	19.2	15.8	23.8

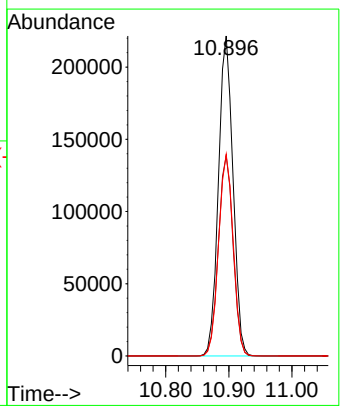


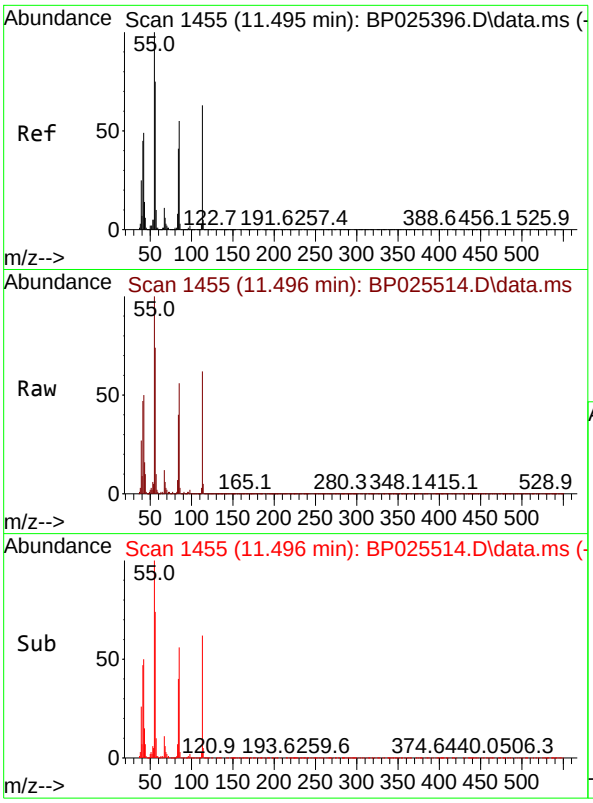


#34
Hexachlorobutadiene
Concen: 46.673 ng
RT: 10.896 min Scan# 1353
Delta R.T. -0.006 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Tgt Ion:225 Resp: 353627

Ion	Ratio	Lower	Upper
225	100		
223	62.5	50.0	75.0
227	63.0	49.7	74.5



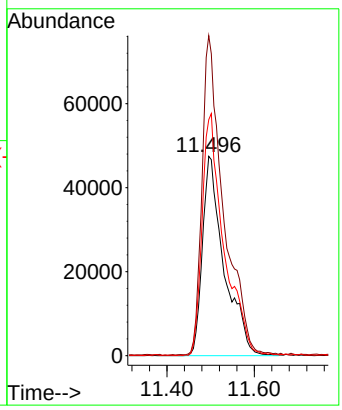


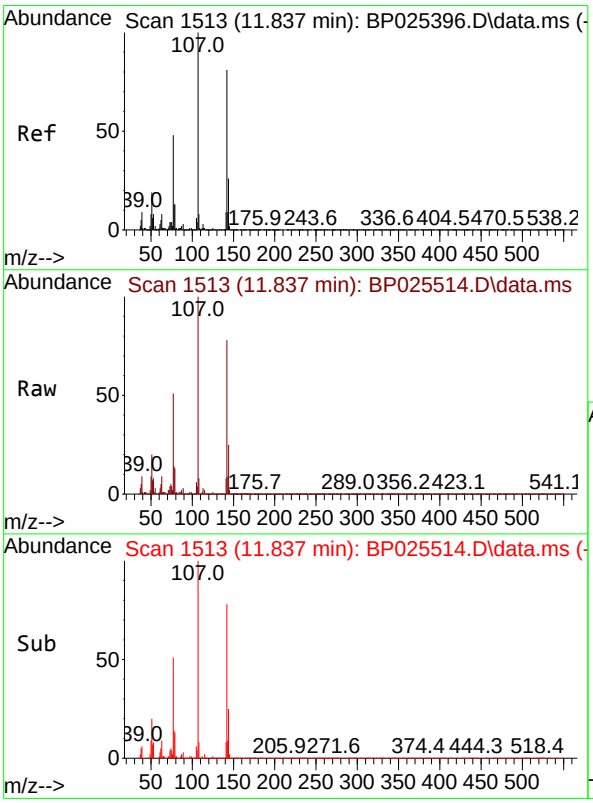
#35
Caprolactam
Concen: 40.163 ng
RT: 11.496 min Scan# 14
Delta R.T. 0.000 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Instrument :
BNA_P
ClientSampleId :
PB169259BS

Tgt Ion:113 Resp: 163441

Ion	Ratio	Lower	Upper
113	100		
55	160.5	140.0	180.0
56	118.4	100.0	140.0

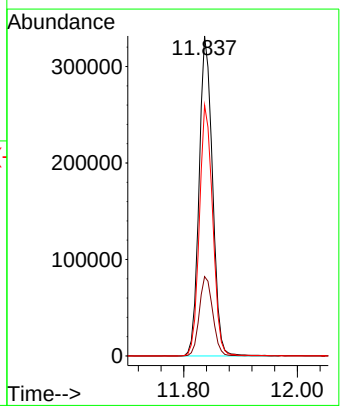


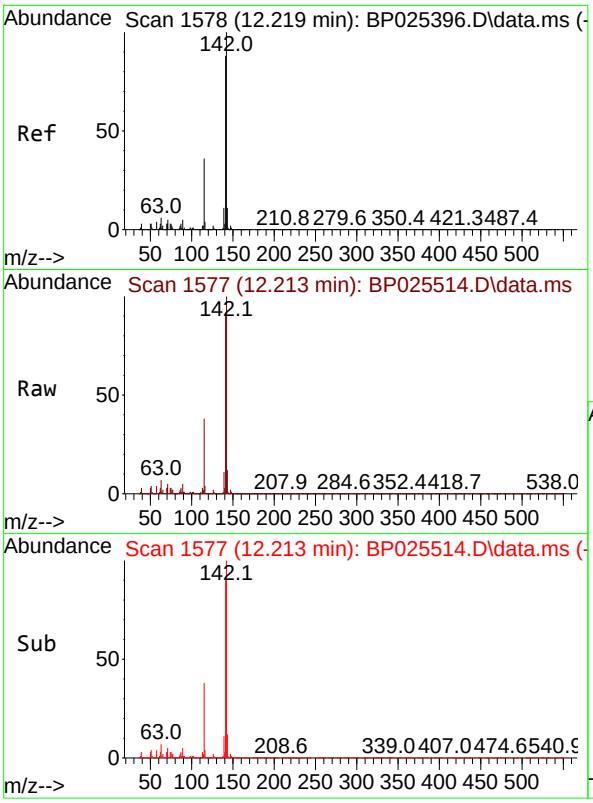


#36
4-Chloro-3-methylphenol
Concen: 42.595 ng
RT: 11.837 min Scan# 1513
Delta R.T. 0.000 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Tgt Ion:107 Resp: 542442

Ion	Ratio	Lower	Upper
107	100		
144	24.8	21.0	31.4
142	78.4	64.6	97.0



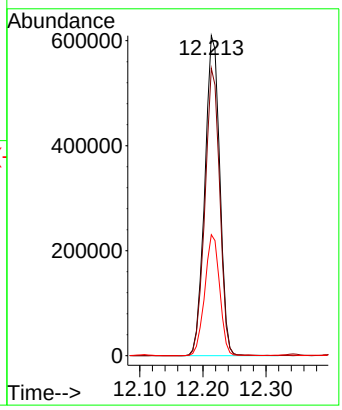


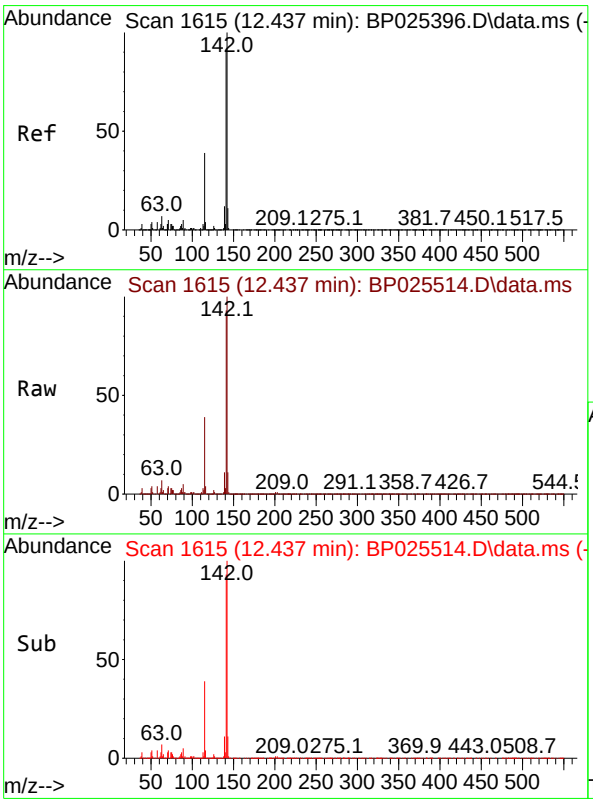
#37
2-Methylnaphthalene
Concen: 41.365 ng
RT: 12.213 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Instrument :
BNA_P
ClientSampleId :
PB169259BS

Tgt Ion:142 Resp: 1002467

Ion	Ratio	Lower	Upper
142	100		
141	89.8	70.3	105.5
115	37.8	28.9	43.3

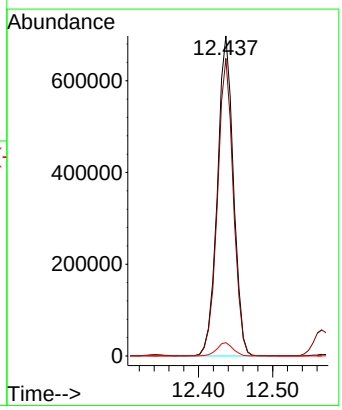


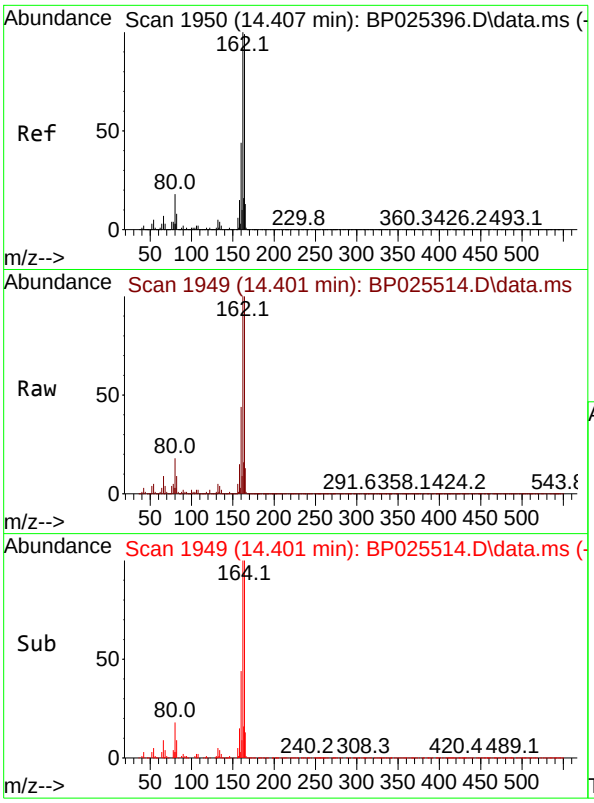


#38
1-Methylnaphthalene
Concen: 40.695 ng
RT: 12.437 min Scan# 1615
Delta R.T. 0.000 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Tgt Ion:142 Resp: 1048812

Ion	Ratio	Lower	Upper
142	100		
141	93.0	73.1	109.7
116	4.2	3.2	4.8



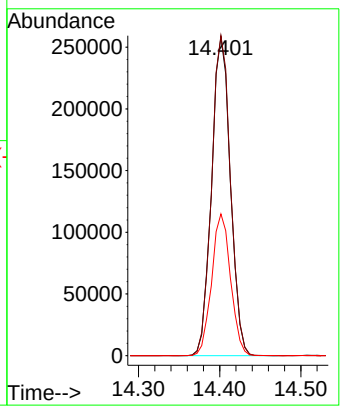


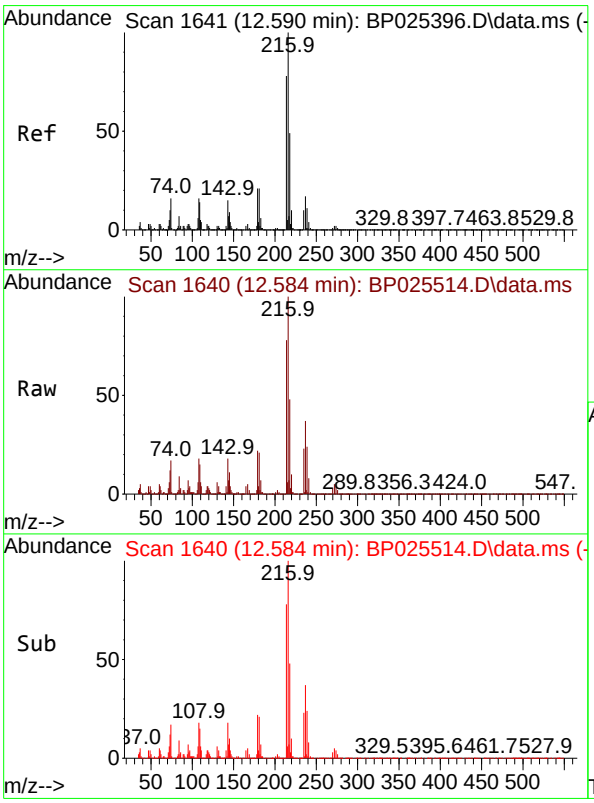
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.401 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Instrument :
BNA_P
ClientSampleId :
PB169259BS

Tgt Ion:164 Resp: 415906

Ion	Ratio	Lower	Upper
164	100		
162	100.4	81.0	121.6
160	44.5	35.4	53.2

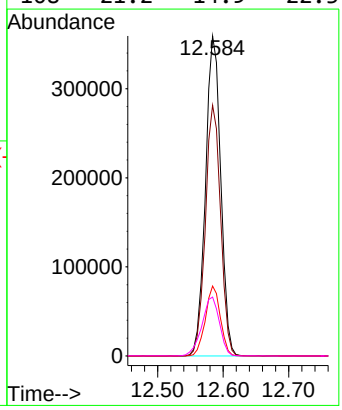


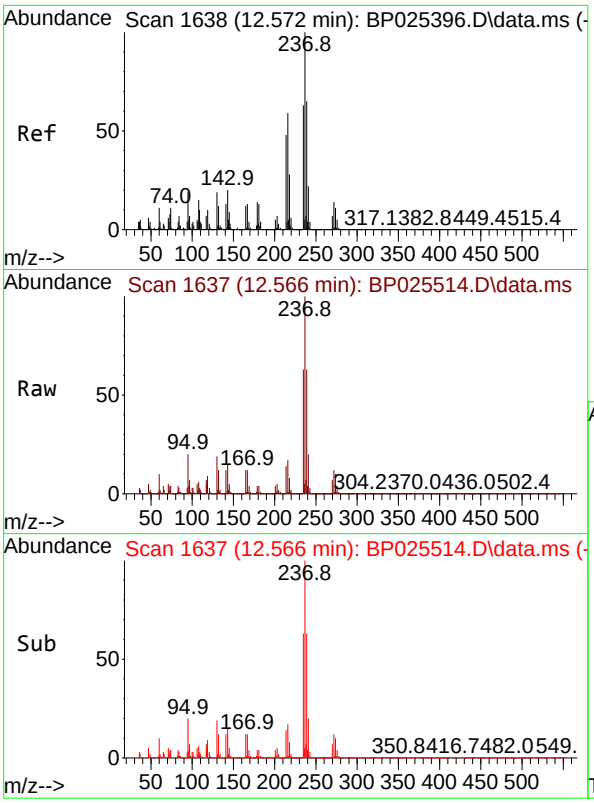


#40
1,2,4,5-Tetrachlorobenzene
Concen: 48.298 ng
RT: 12.584 min Scan# 1640
Delta R.T. -0.006 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Tgt Ion:216 Resp: 580153

Ion	Ratio	Lower	Upper
216	100		
214	78.4	63.0	94.4
179	21.5	17.1	25.7
108	21.2	14.9	22.3



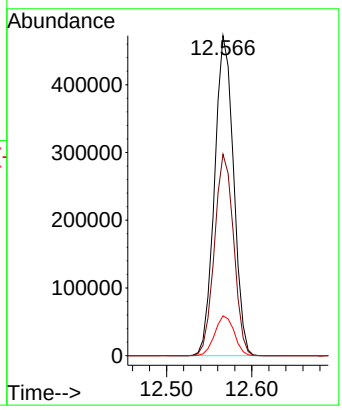


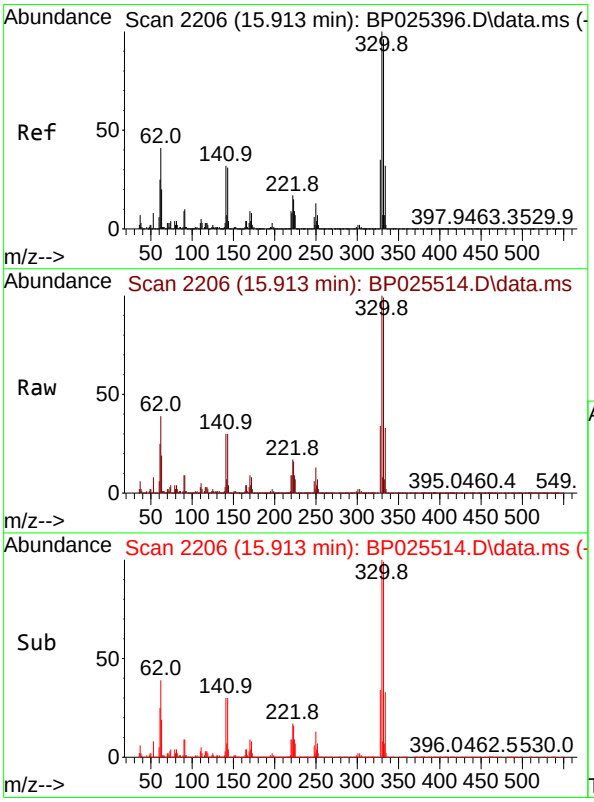
#41
Hexachlorocyclopentadiene
Concen: 100.906 ng
RT: 12.566 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Instrument :
BNA_P
ClientSampleId :
PB169259BS

Tgt Ion:237 Resp: 732135

Ion	Ratio	Lower	Upper
237	100		
235	63.0	42.7	82.7
272	12.5	0.0	34.0

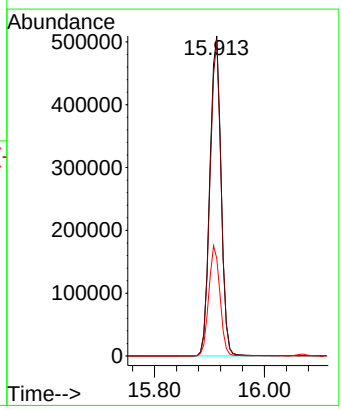


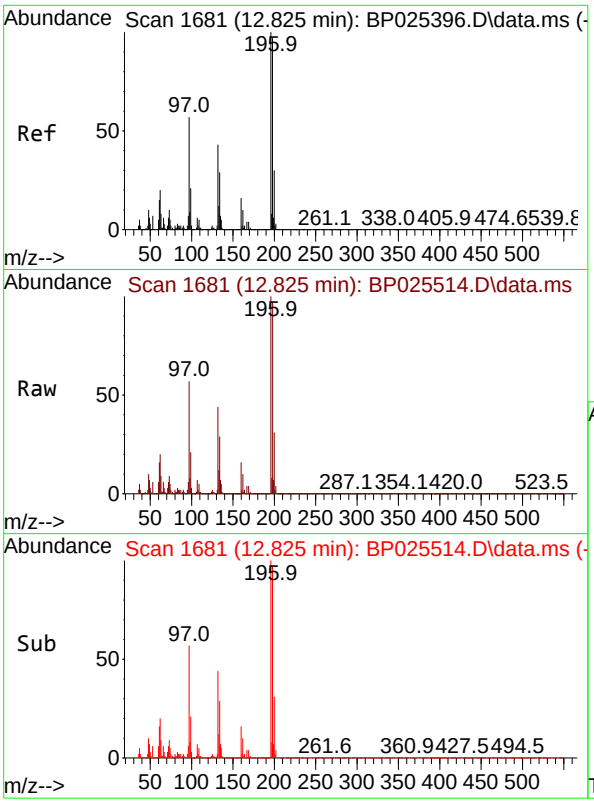


#42
2,4,6-Tribromophenol
Concen: 128.983 ng
RT: 15.913 min Scan# 2206
Delta R.T. 0.000 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Tgt Ion:330 Resp: 722062

Ion	Ratio	Lower	Upper
330	100		
332	97.2	77.3	115.9
141	34.3	26.6	39.8



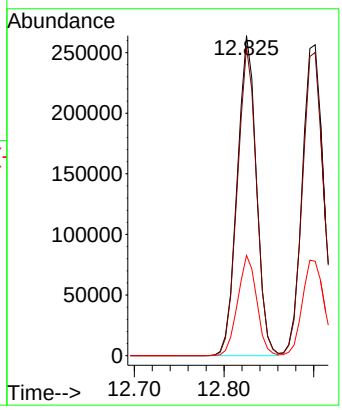


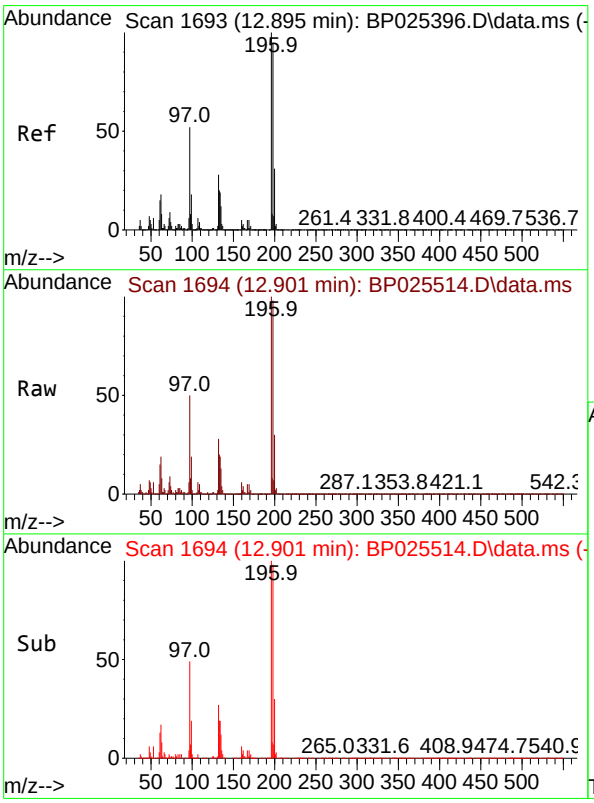
#43
2,4,6-Trichlorophenol
Concen: 48.200 ng
RT: 12.825 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Instrument :
BNA_P
ClientSampleId :
PB169259BS

Tgt Ion:196 Resp: 390866

Ion	Ratio	Lower	Upper
196	100		
198	96.5	77.2	115.8
200	31.4	23.9	35.9

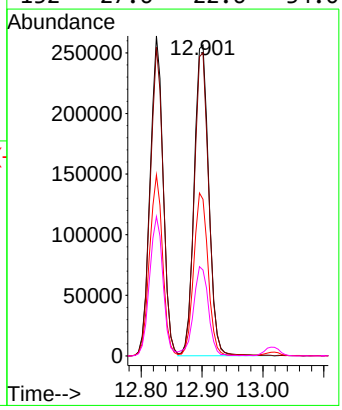


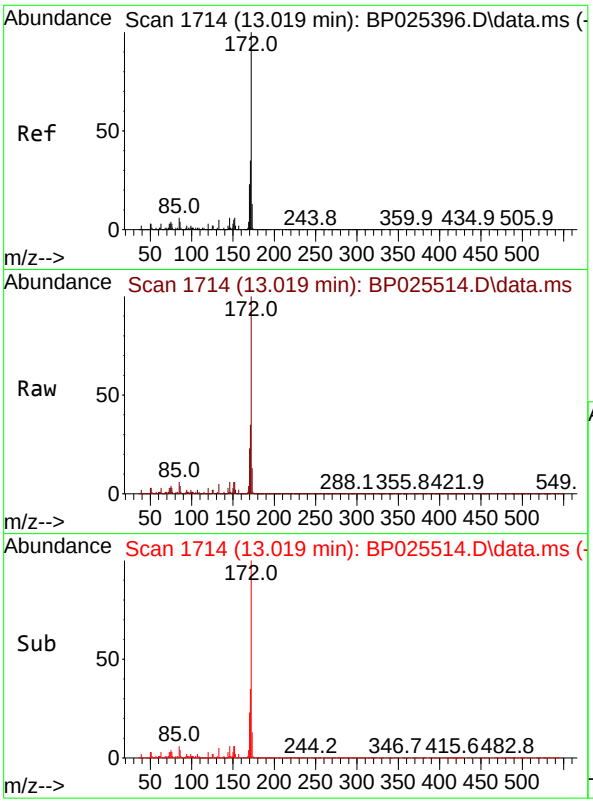


#44
2,4,5-Trichlorophenol
Concen: 48.139 ng
RT: 12.901 min Scan# 1694
Delta R.T. 0.006 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Tgt Ion:196 Resp: 427836

Ion	Ratio	Lower	Upper
196	100		
198	97.5	76.2	114.2
97	50.4	41.2	61.8
132	27.6	22.6	34.0



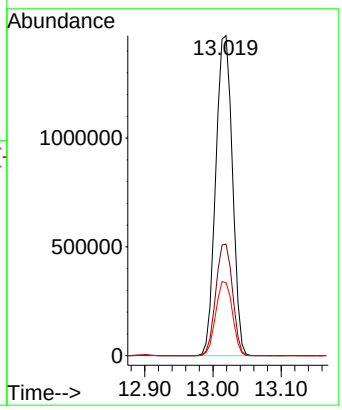


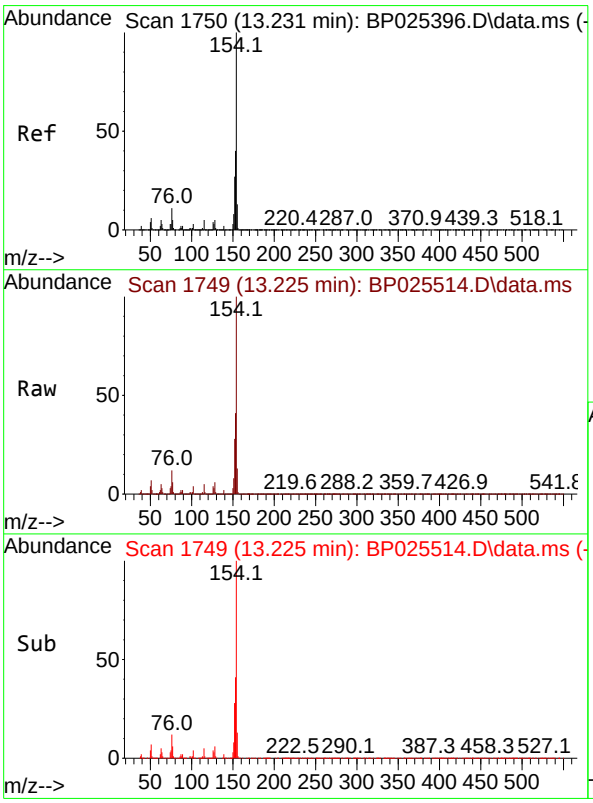
#45
2-Fluorobiphenyl
Concen: 82.338 ng
RT: 13.019 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Instrument :
BNA_P
ClientSampleId :
PB169259BS

Tgt Ion:172 Resp: 2505695

Ion	Ratio	Lower	Upper
172	100		
171	34.9	28.1	42.1
170	22.9	18.6	28.0

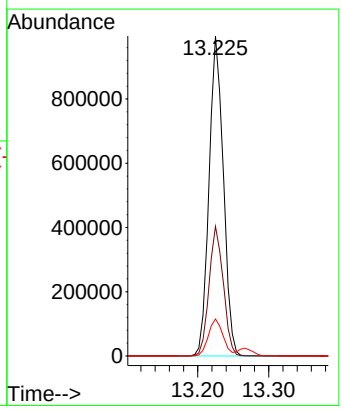


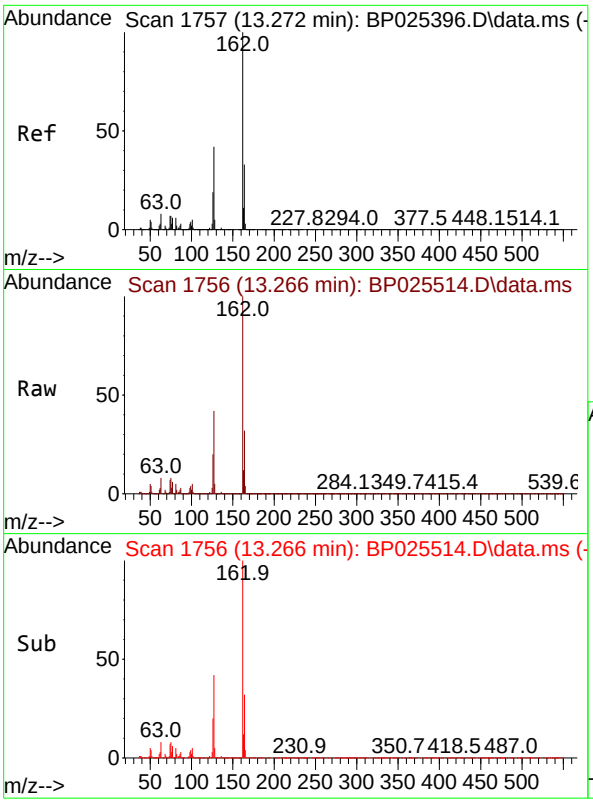


#46
1,1'-Biphenyl
Concen: 46.108 ng
RT: 13.225 min Scan# 1749
Delta R.T. -0.006 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Tgt Ion:154 Resp: 1392727

Ion	Ratio	Lower	Upper
154	100		
153	40.5	19.5	59.5
76	11.6	0.0	31.1



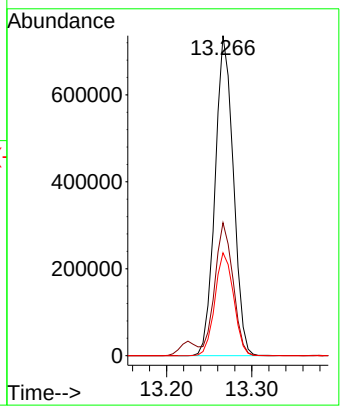


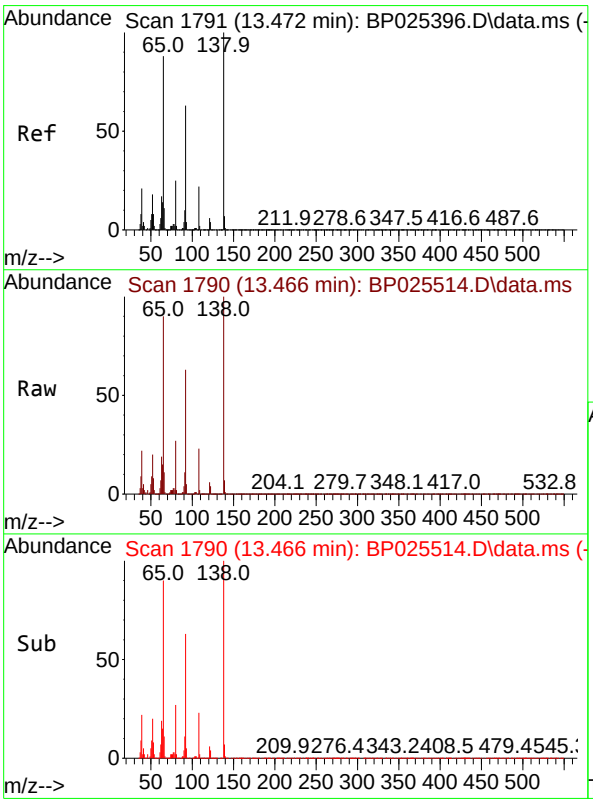
#47
2-Chloronaphthalene
Concen: 46.617 ng
RT: 13.266 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Instrument :
BNA_P
ClientSampleId :
PB169259BS

Tgt Ion:162 Resp: 1096171

Ion	Ratio	Lower	Upper
162	100		
127	41.5	33.4	50.2
164	32.2	26.2	39.2

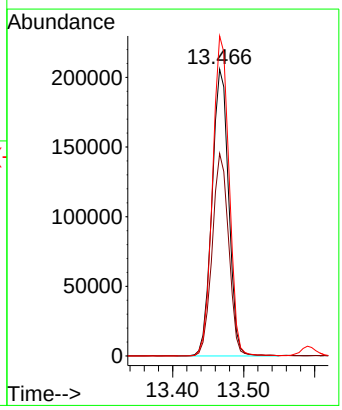


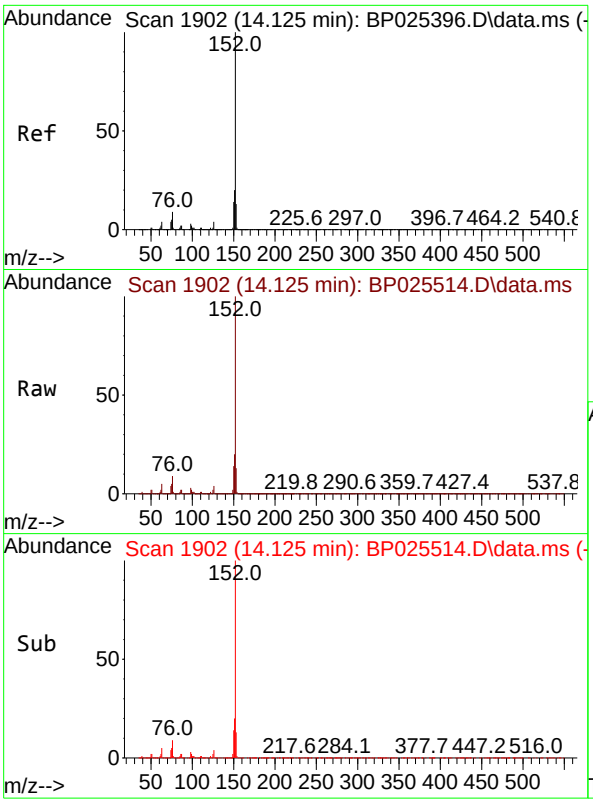


#48
2-Nitroaniline
Concen: 48.857 ng
RT: 13.466 min Scan# 1790
Delta R.T. -0.006 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Tgt Ion: 65 Resp: 334749

Ion	Ratio	Lower	Upper
65	100		
92	70.6	57.6	86.4
138	111.6	91.0	136.6



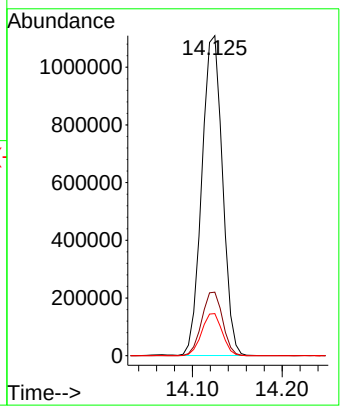


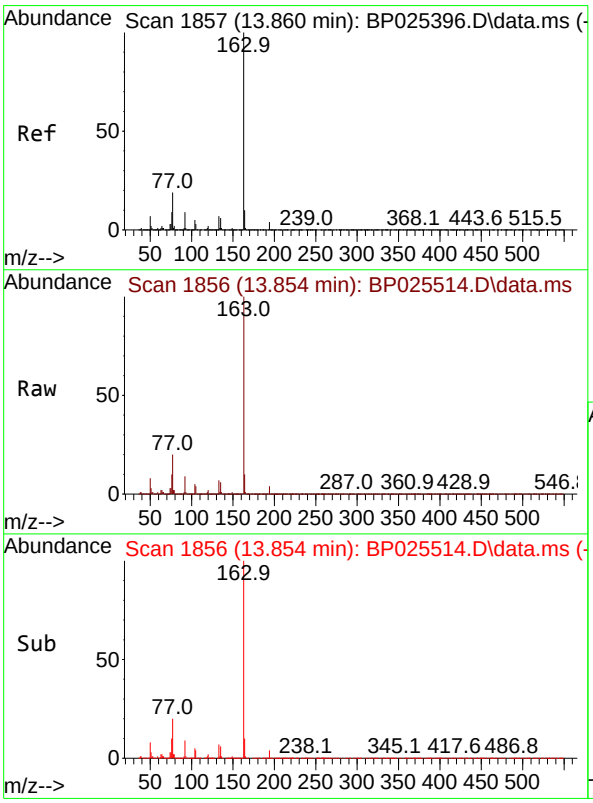
#49
Acenaphthylene
Concen: 45.546 ng
RT: 14.125 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Instrument :
BNA_P
ClientSampleId :
PB169259BS

Tgt Ion:152 Resp: 1772199

Ion	Ratio	Lower	Upper
152	100		
151	19.9	16.0	24.0
153	13.2	10.6	15.8

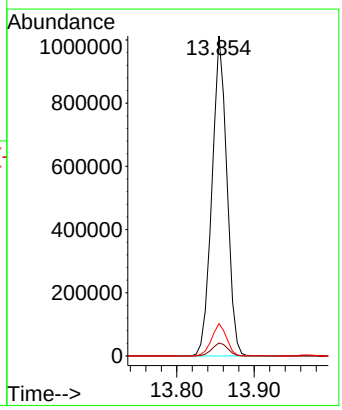


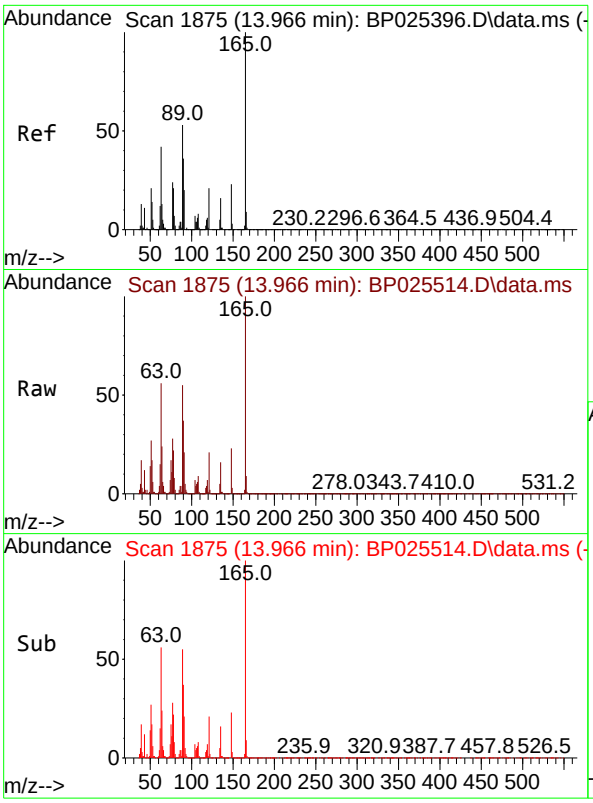


#50
Dimethylphthalate
Concen: 44.419 ng
RT: 13.854 min Scan# 1856
Delta R.T. -0.006 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Tgt Ion:163 Resp: 1352833

Ion	Ratio	Lower	Upper
163	100		
194	4.1	3.4	5.0
164	10.1	7.9	11.9



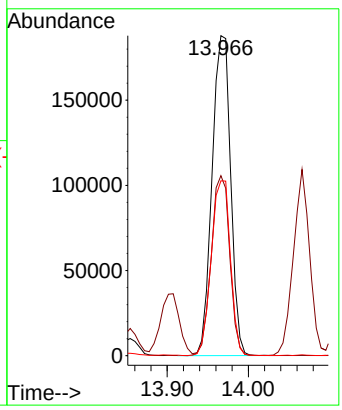


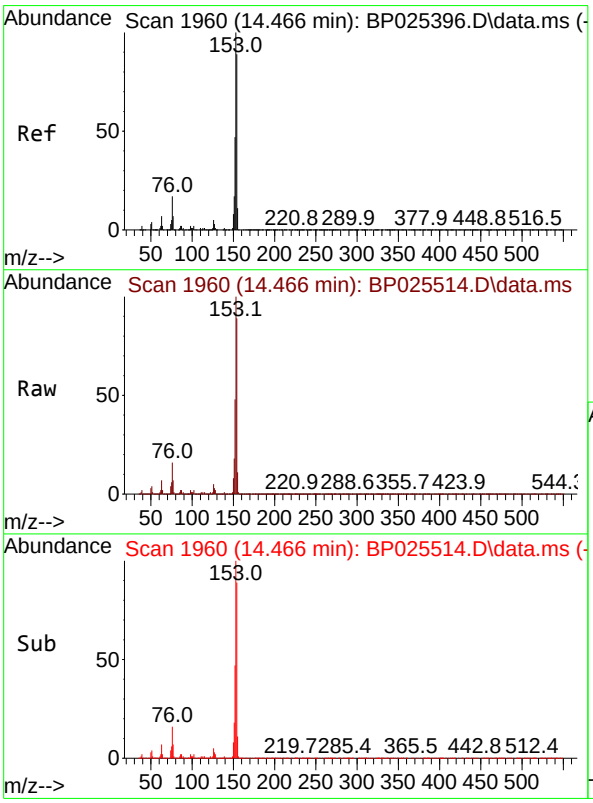
#51
2,6-Dinitrotoluene
Concen: 46.527 ng
RT: 13.966 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Instrument :
BNA_P
ClientSampleId :
PB169259BS

Tgt Ion:165 Resp: 298673

Ion	Ratio	Lower	Upper
165	100		
63	56.3	40.9	61.3
89	54.6	42.1	63.1

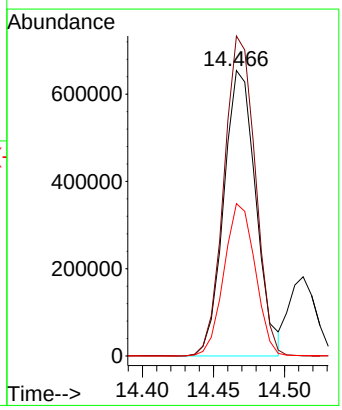


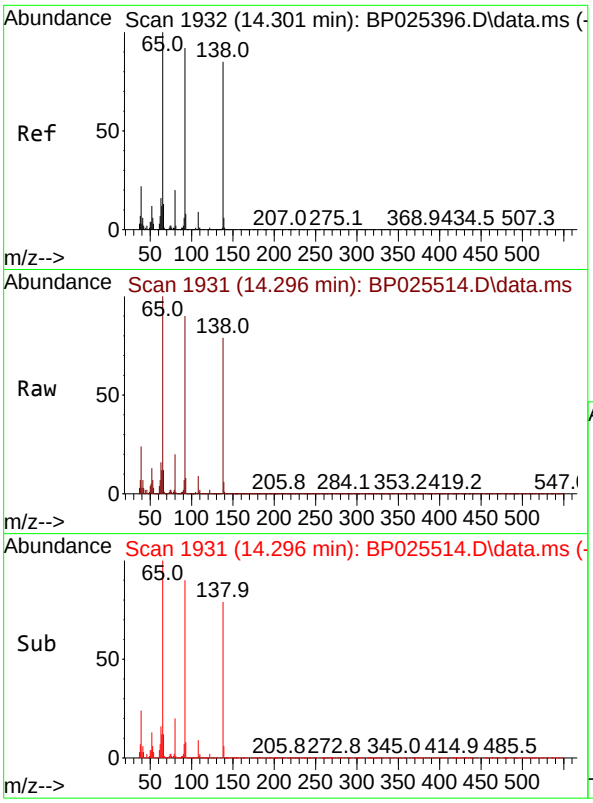


#52
Acenaphthene
Concen: 44.971 ng
RT: 14.466 min Scan# 1960
Delta R.T. 0.000 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Tgt Ion:154 Resp: 1027103

Ion	Ratio	Lower	Upper
154	100		
153	112.1	90.2	135.2
152	53.4	42.1	63.1



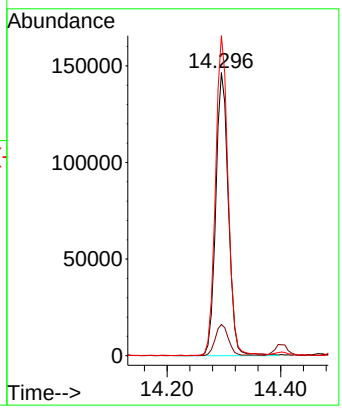


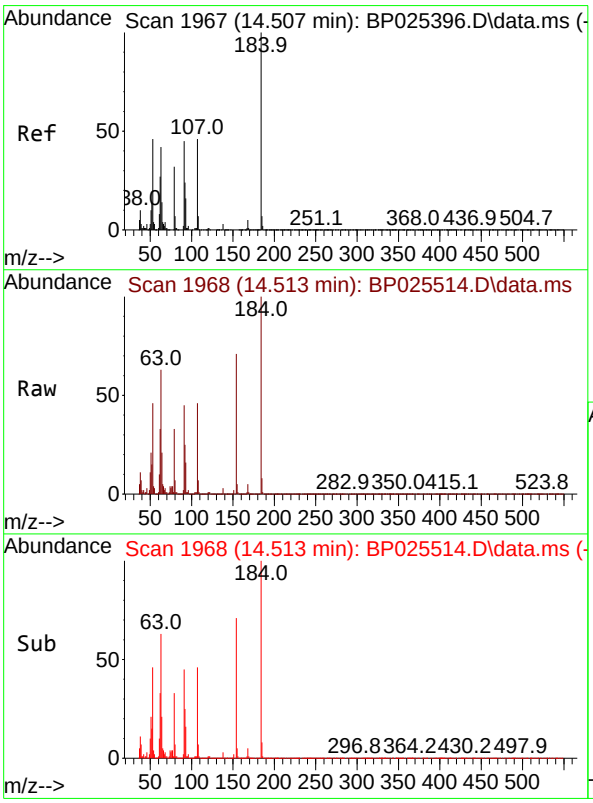
#53
3-Nitroaniline
Concen: 31.117 ng
RT: 14.296 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Instrument :
BNA_P
ClientSampleId :
PB169259BS

Tgt Ion:138 Resp: 224739

Ion	Ratio	Lower	Upper
138	100		
108	11.0	8.3	12.5
92	113.1	86.2	129.2

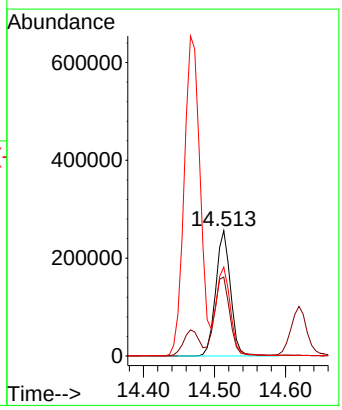


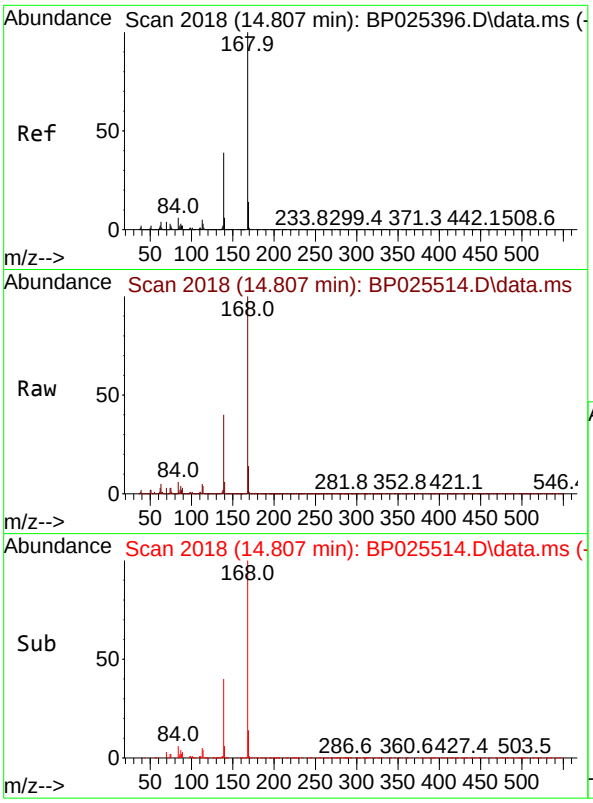


#54
2,4-Dinitrophenol
Concen: 107.824 ng
RT: 14.513 min Scan# 1968
Delta R.T. 0.006 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Tgt Ion:184 Resp: 369632

Ion	Ratio	Lower	Upper
184	100		
63	63.0	49.4	74.2
154	70.9	54.6	82.0



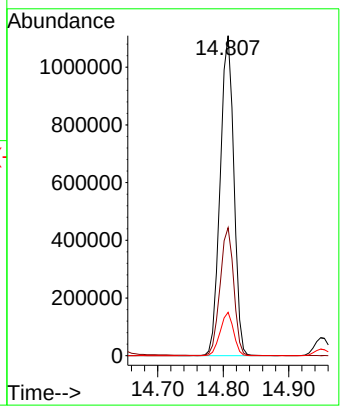


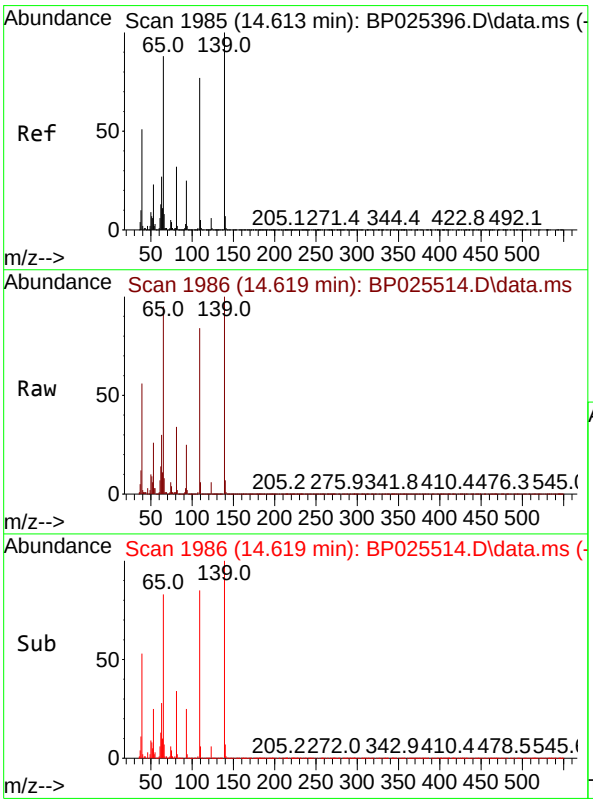
#55
Dibenzofuran
Concen: 44.395 ng
RT: 14.807 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Instrument :
BNA_P
ClientSampleId :
PB169259BS

Tgt Ion:168 Resp: 1603072

Ion	Ratio	Lower	Upper
168	100		
139	40.0	31.5	47.3
169	13.5	10.9	16.3

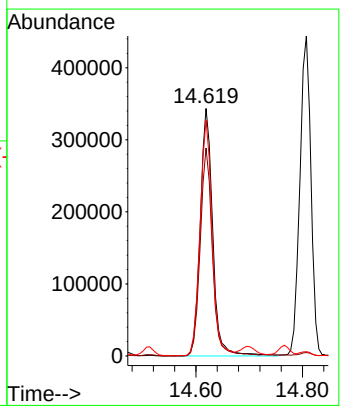


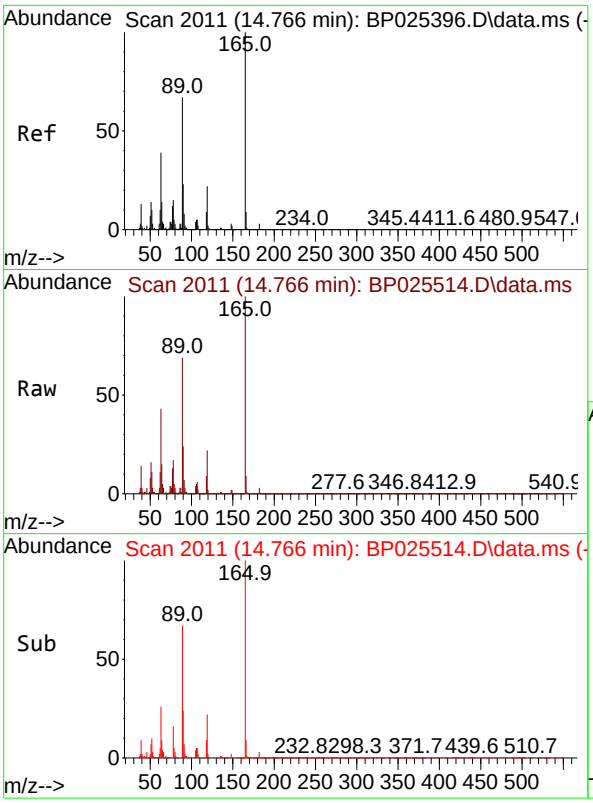


#56
4-Nitrophenol
Concen: 93.972 ng
RT: 14.619 min Scan# 1986
Delta R.T. 0.006 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Tgt Ion:139 Resp: 557711

Ion	Ratio	Lower	Upper
139	100		
109	84.0	56.6	96.6
65	95.3	68.2	108.2



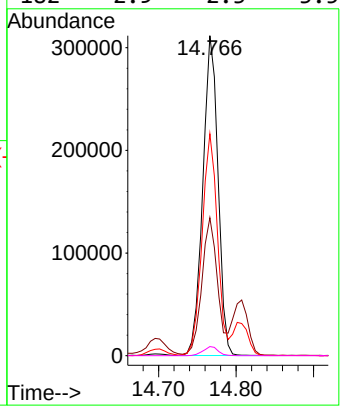


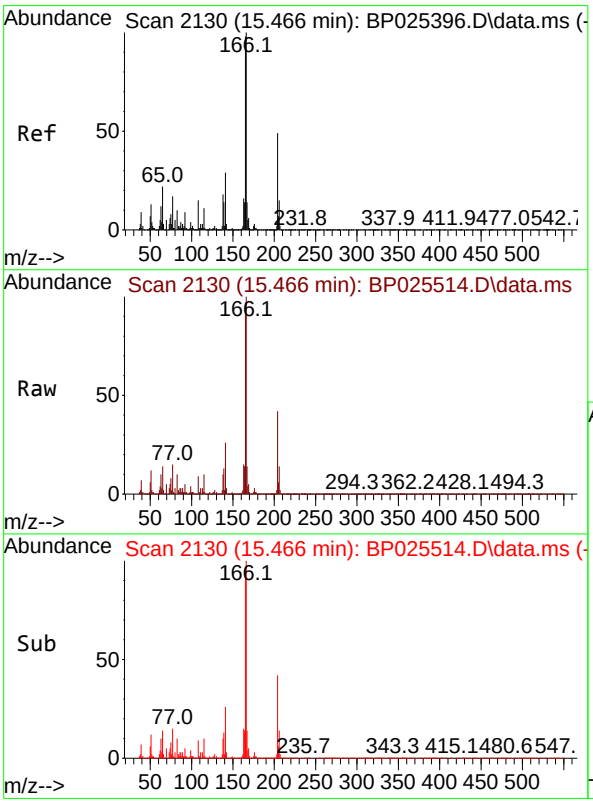
#57
2,4-Dinitrotoluene
Concen: 46.358 ng
RT: 14.766 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Instrument :
BNA_P
ClientSampleId :
PB169259BS

Tgt Ion:165 Resp: 424586

Ion	Ratio	Lower	Upper
165	100		
63	43.1	31.4	47.2
89	69.4	53.3	79.9
182	2.9	2.3	3.5

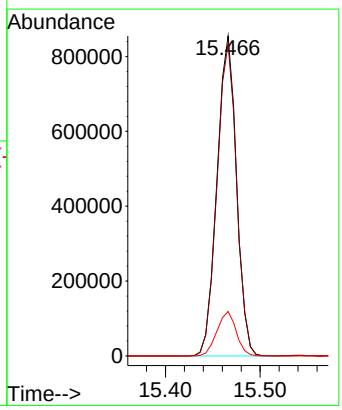


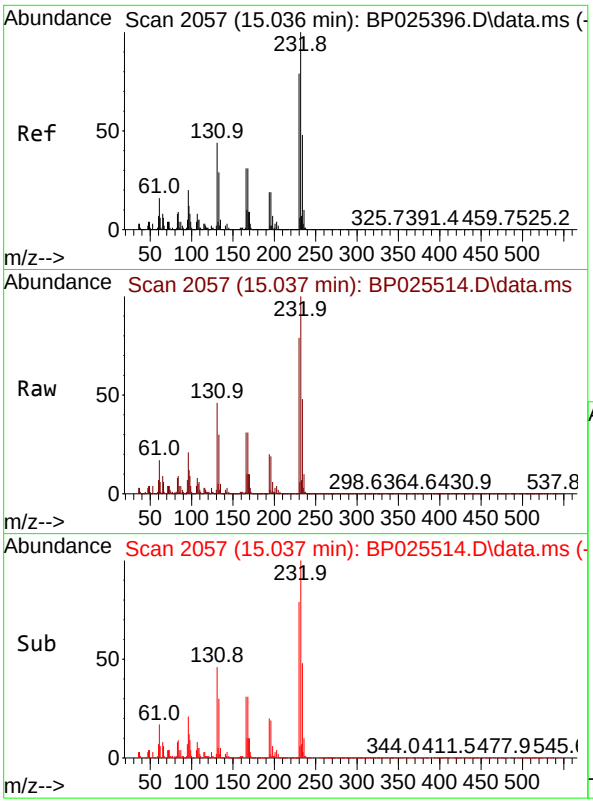


#58
Fluorene
Concen: 42.940 ng
RT: 15.466 min Scan# 2130
Delta R.T. 0.000 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Tgt Ion:166 Resp: 1223490

Ion	Ratio	Lower	Upper
166	100		
165	97.5	78.8	118.2
167	13.9	11.0	16.4



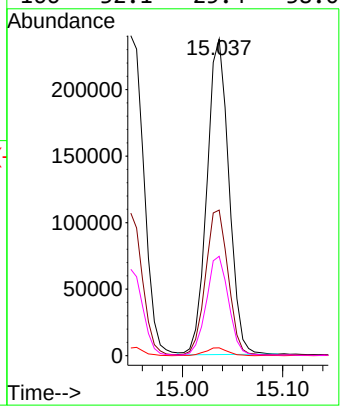


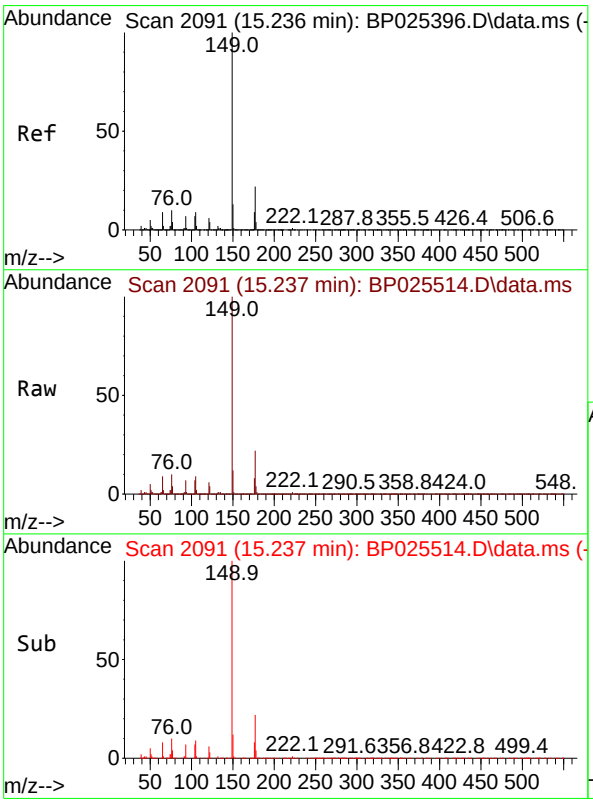
#59
2,3,4,6-Tetrachlorophenol
Concen: 46.089 ng
RT: 15.037 min Scan# 2(
Delta R.T. 0.000 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Instrument :
BNA_P
ClientSampleId :
PB169259BS

Tgt Ion:232 Resp: 361689

Ion	Ratio	Lower	Upper
232	100		
131	48.1	37.0	55.6
130	2.6	1.9	2.9
166	32.1	25.4	38.0

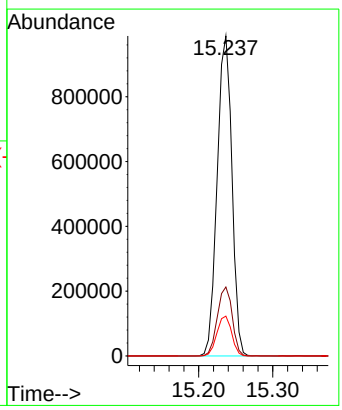


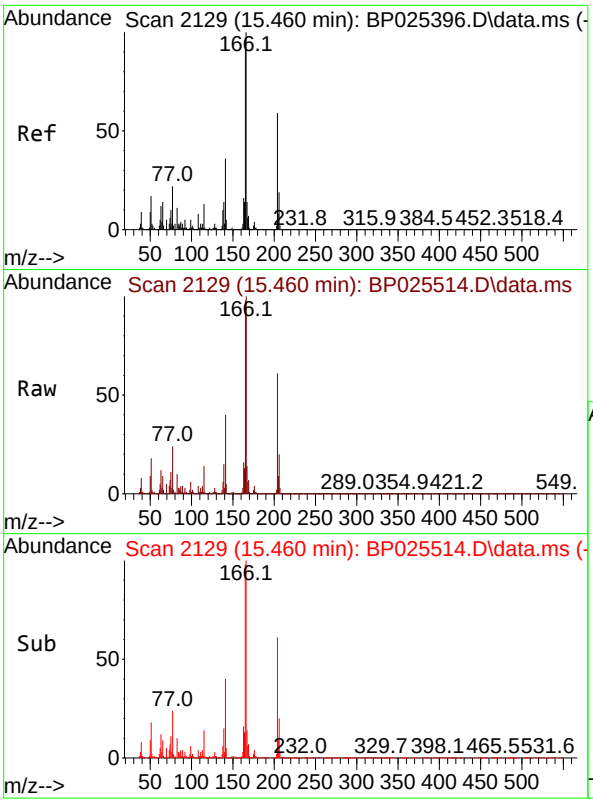


#60
Diethylphthalate
Concen: 44.045 ng
RT: 15.237 min Scan# 2091
Delta R.T. 0.000 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Tgt Ion:149 Resp: 1363057

Ion	Ratio	Lower	Upper
149	100		
177	21.6	17.3	25.9
150	12.4	10.3	15.5



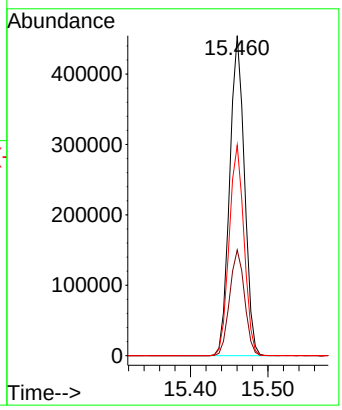


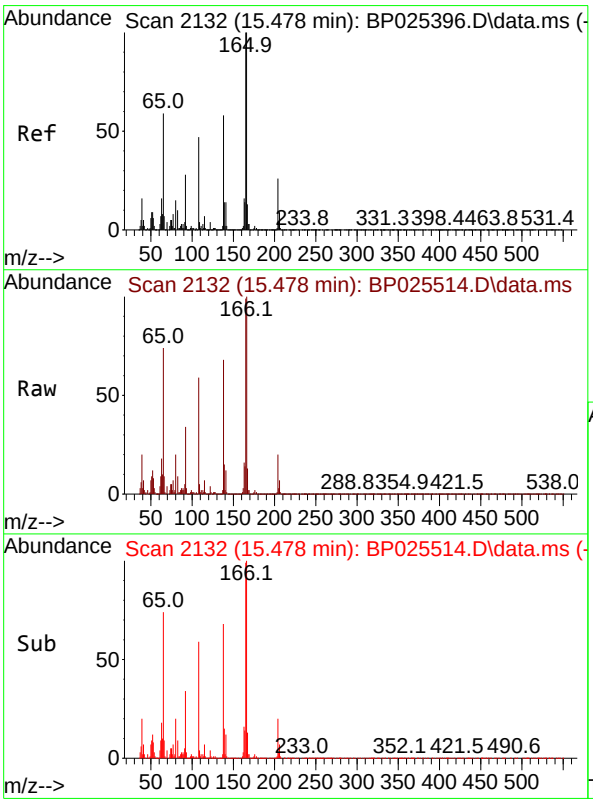
#61
4-Chlorophenyl-phenylether
Concen: 42.627 ng
RT: 15.460 min Scan# 21
Delta R.T. 0.000 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Instrument :
BNA_P
ClientSampleId :
PB169259BS

Tgt Ion:204 Resp: 604052

Ion	Ratio	Lower	Upper
204	100		
206	33.1	25.8	38.8
141	65.8	49.4	74.2

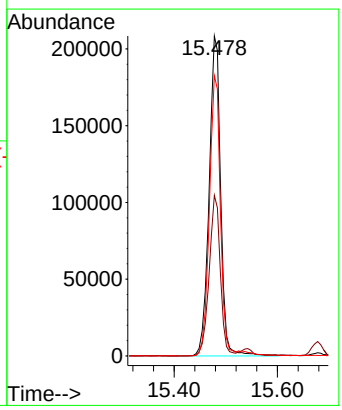


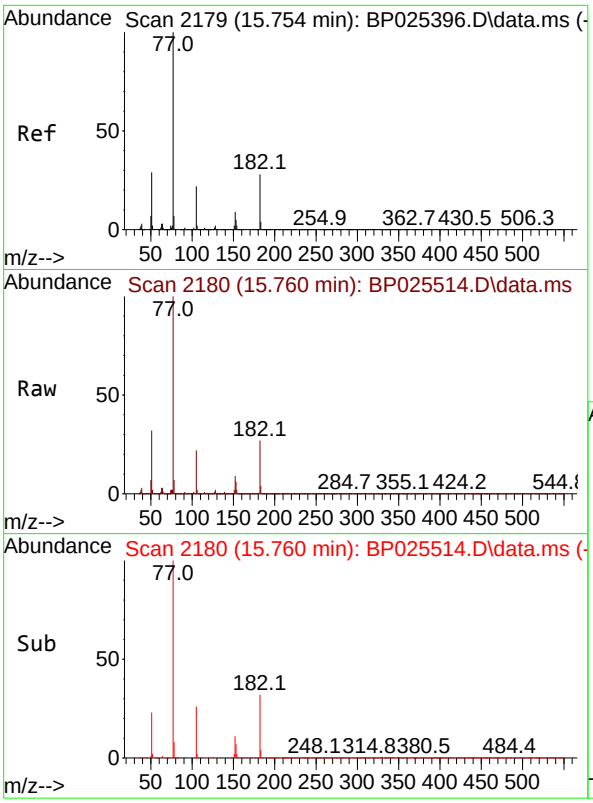


#62
4-Nitroaniline
Concen: 43.682 ng
RT: 15.478 min Scan# 2132
Delta R.T. 0.000 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Tgt Ion:138 Resp: 323428

Ion	Ratio	Lower	Upper
138	100		
92	50.2	29.1	69.1
108	87.6	61.5	101.5



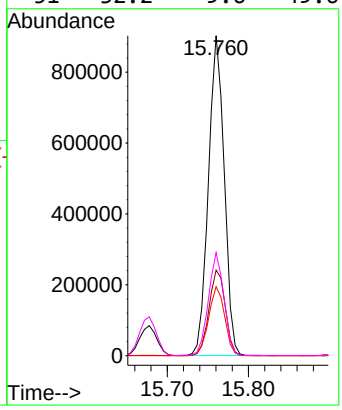


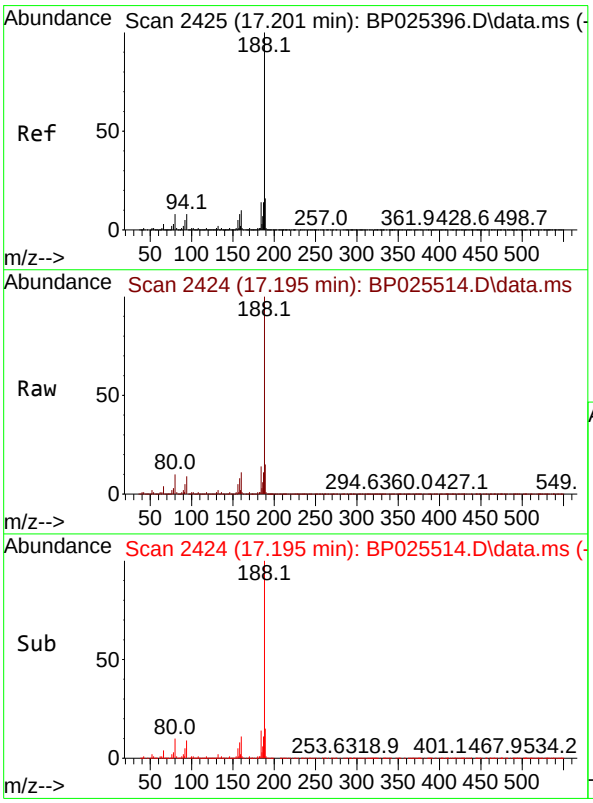
#63
Azobenzene
Concen: 46.057 ng
RT: 15.760 min Scan# 21
Delta R.T. 0.006 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Instrument :
BNA_P
ClientSampleId :
PB169259BS

Tgt Ion: 77 Resp: 1220451

Ion	Ratio	Lower	Upper
77	100		
182	26.8	7.5	47.5
105	21.5	2.1	42.1
51	32.2	9.6	49.6

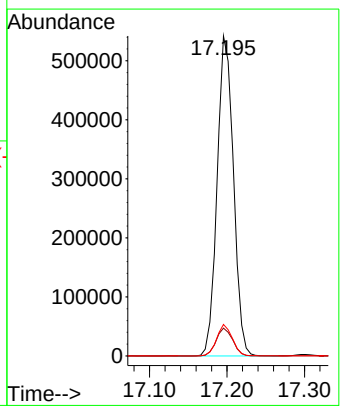


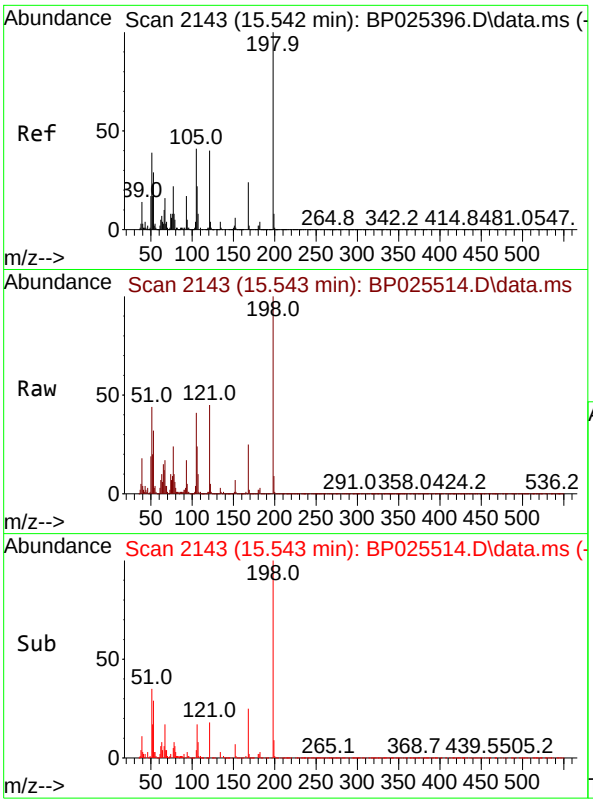


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.195 min Scan# 2424
Delta R.T. -0.006 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Tgt Ion:188 Resp: 793030

Ion	Ratio	Lower	Upper
188	100		
94	8.7	6.6	10.0
80	9.9	6.7	10.1



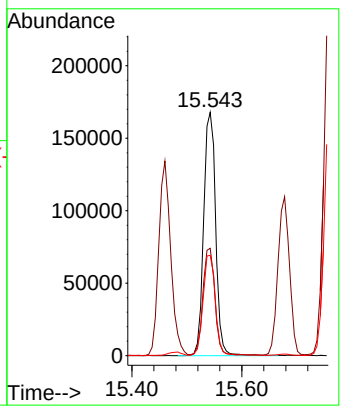


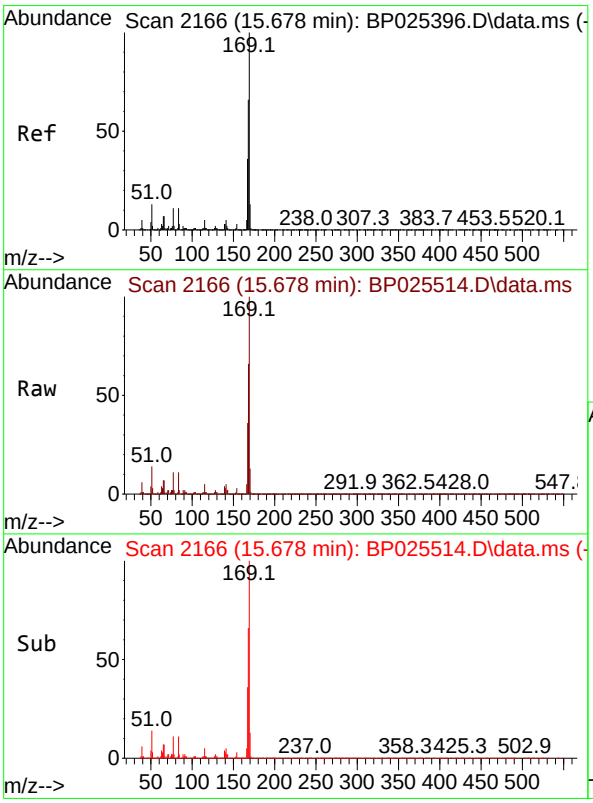
#65
4,6-Dinitro-2-methylphenol
Concen: 51.197 ng
RT: 15.543 min Scan# 21
Delta R.T. 0.000 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Instrument :
BNA_P
ClientSampleId :
PB169259BS

Tgt Ion:198 Resp: 253084

Ion	Ratio	Lower	Upper
198	100		
51	44.1	19.6	59.6
105	41.2	20.9	60.9

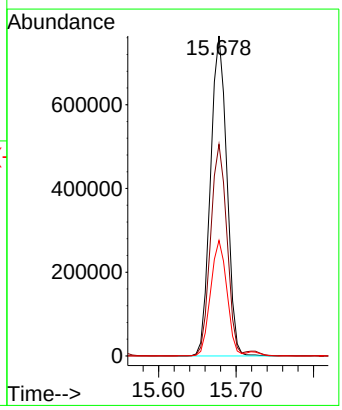


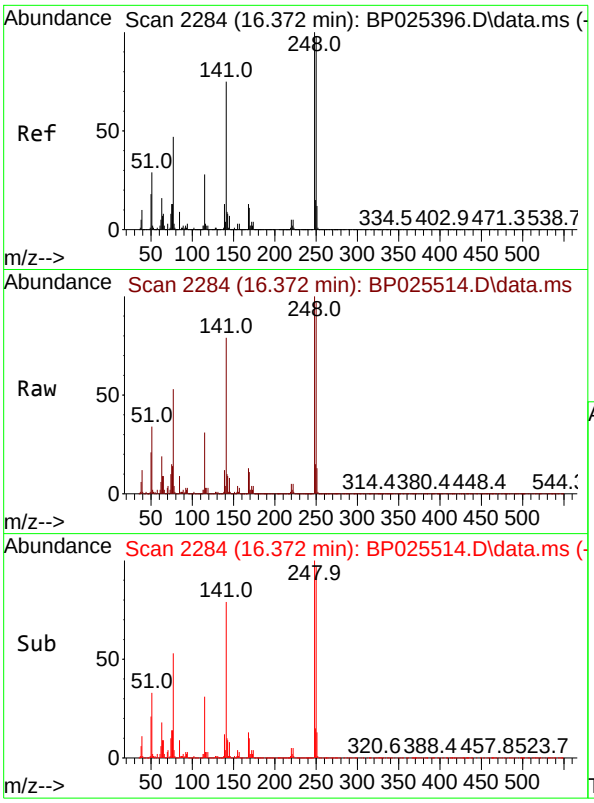


#66
n-Nitrosodiphenylamine
Concen: 46.344 ng
RT: 15.678 min Scan# 2166
Delta R.T. 0.000 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Tgt Ion:169 Resp: 1120737

Ion	Ratio	Lower	Upper
169	100		
168	66.2	53.2	79.8
167	36.1	28.7	43.1



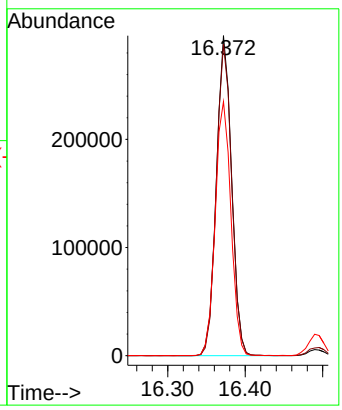


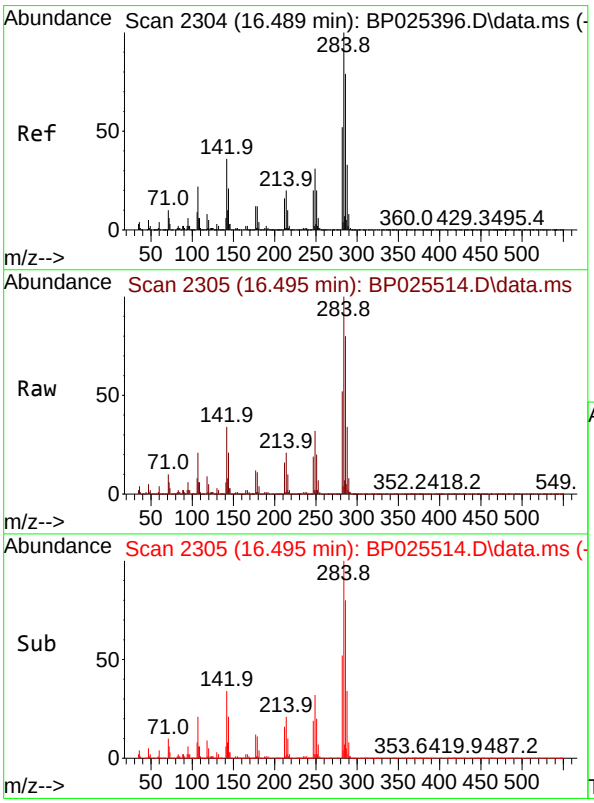
#67
4-Bromophenyl-phenylether
Concen: 46.344 ng
RT: 16.372 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Instrument :
BNA_P
ClientSampleId :
PB169259BS

Tgt Ion:248 Resp: 404207

Ion	Ratio	Lower	Upper
248	100		
250	97.4	78.2	117.2
141	79.4	59.6	89.4

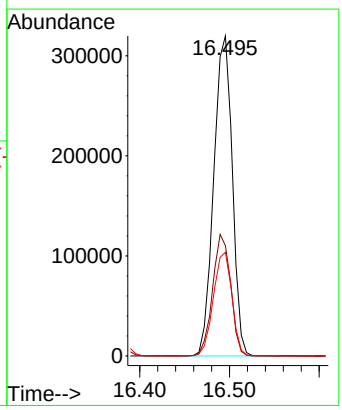


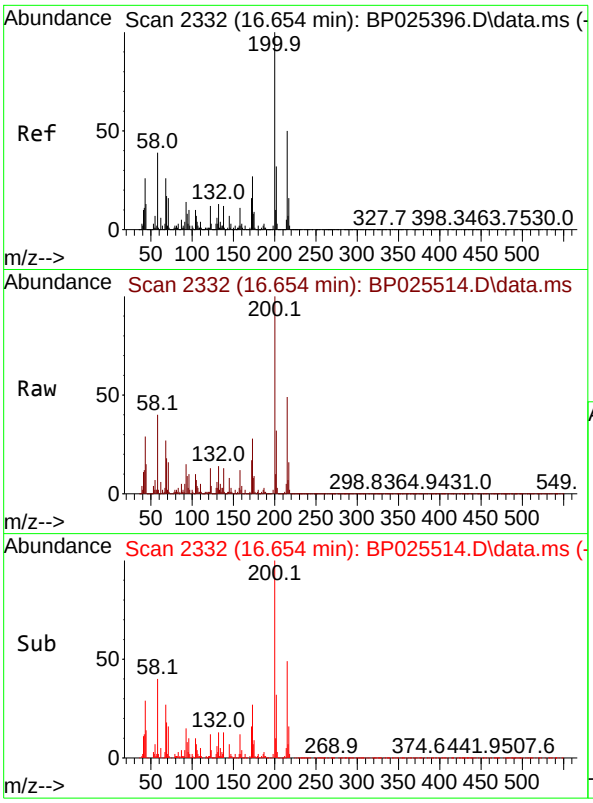


#68
Hexachlorobenzene
Concen: 45.296 ng
RT: 16.495 min Scan# 2305
Delta R.T. 0.006 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Tgt Ion:284 Resp: 457964

Ion	Ratio	Lower	Upper
284	100		
142	34.5	29.1	43.7
249	32.4	25.0	37.4



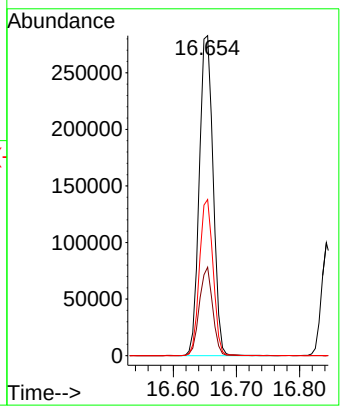


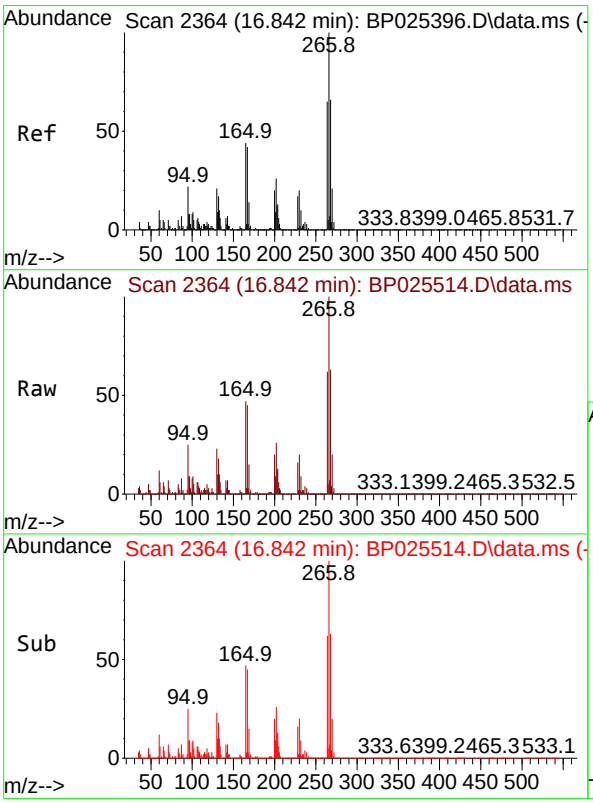
#69
Atrazine
Concen: 47.471 ng
RT: 16.654 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Instrument :
BNA_P
ClientSampleId :
PB169259BS

Tgt Ion:200 Resp: 429920

Ion	Ratio	Lower	Upper
200	100		
173	27.7	6.7	46.7
215	48.8	29.7	69.7

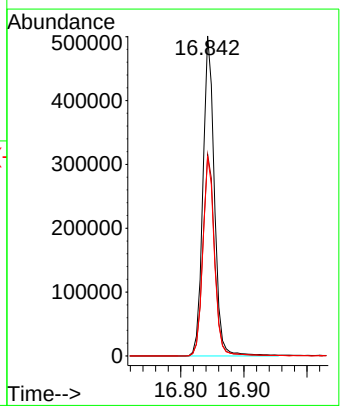


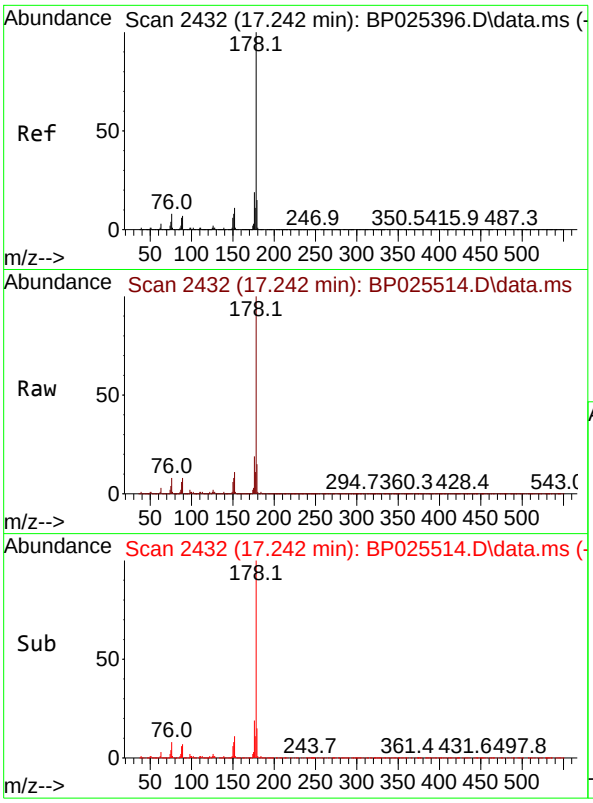


#70
Pentachlorophenol
Concen: 98.793 ng
RT: 16.842 min Scan# 2364
Delta R.T. 0.000 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Tgt Ion:266 Resp: 630521

Ion	Ratio	Lower	Upper
266	100		
268	63.0	52.6	79.0
264	62.4	52.0	78.0



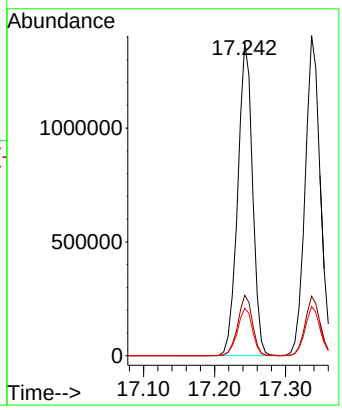


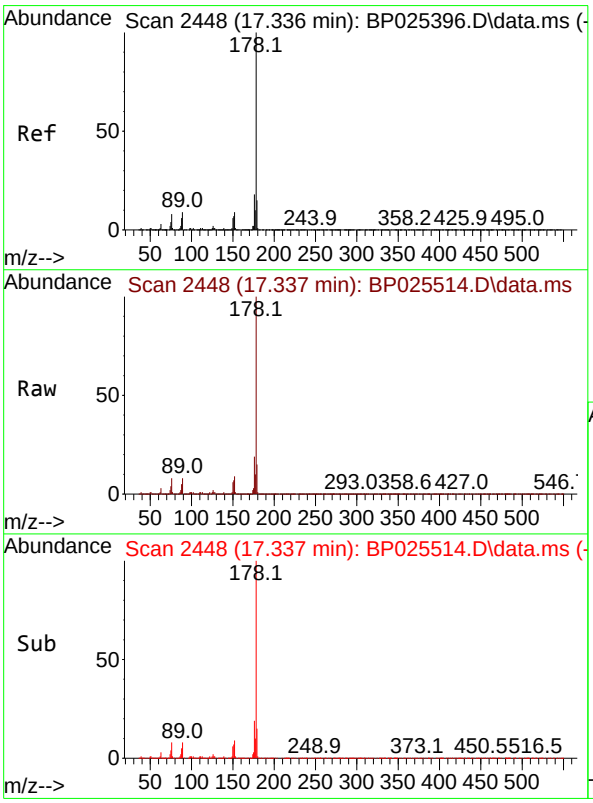
#71
Phenanthrene
Concen: 45.716 ng
RT: 17.242 min Scan# 24
Delta R.T. 0.000 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Instrument :
BNA_P
ClientSampleId :
PB169259BS

Tgt Ion:178 Resp: 1991575

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.5	23.3
179	15.2	12.2	18.4

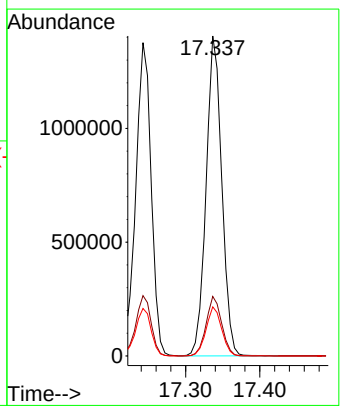


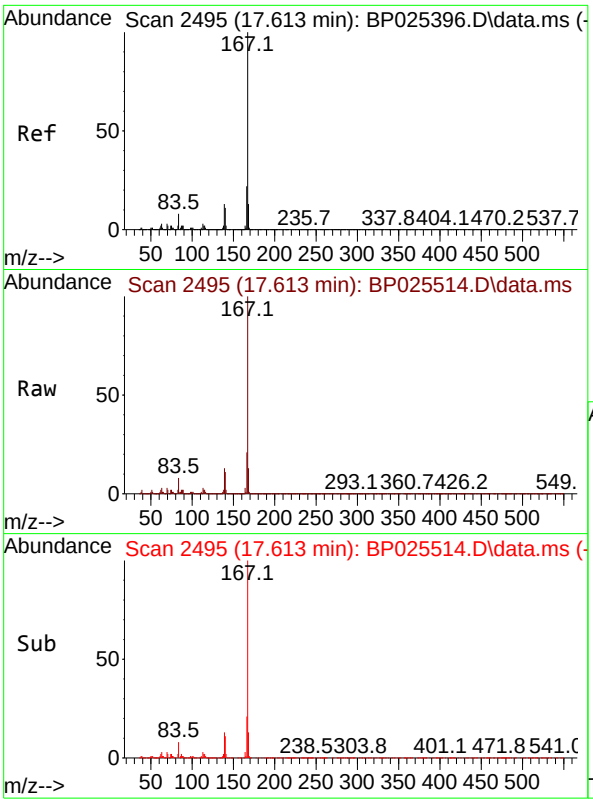


#72
Anthracene
Concen: 46.424 ng
RT: 17.337 min Scan# 2448
Delta R.T. 0.000 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Tgt Ion:178 Resp: 2065289

Ion	Ratio	Lower	Upper
178	100		
176	18.6	14.7	22.1
179	15.3	12.2	18.2



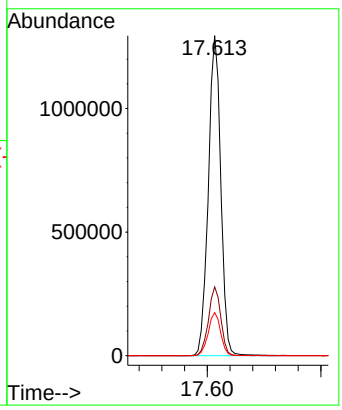


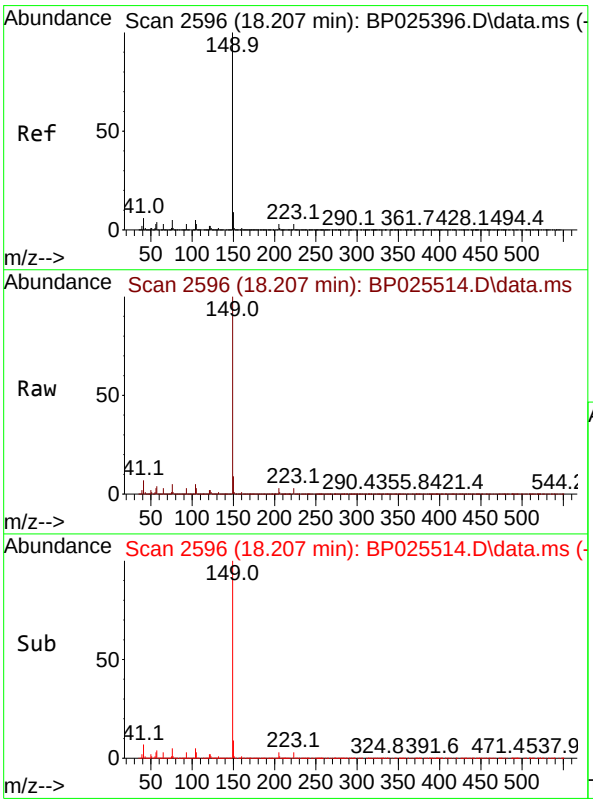
#73
Carbazole
Concen: 46.730 ng
RT: 17.613 min Scan# 24
Delta R.T. 0.000 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Instrument :
BNA_P
ClientSampleId :
PB169259BS

Tgt Ion:167 Resp: 1958150

Ion	Ratio	Lower	Upper
167	100		
166	21.5	17.5	26.3
139	13.5	10.6	16.0

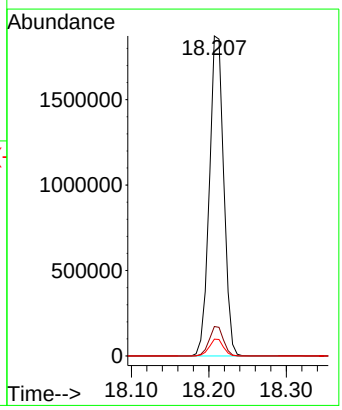


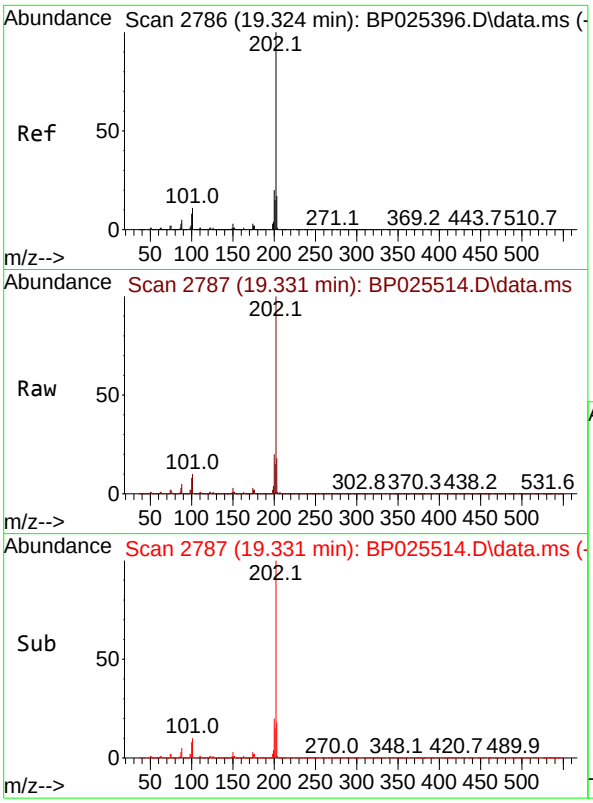


#74
Di-n-butylphthalate
Concen: 46.724 ng
RT: 18.207 min Scan# 2596
Delta R.T. 0.000 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Tgt Ion:149 Resp: 2408862

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.4	11.0
104	5.3	4.2	6.2



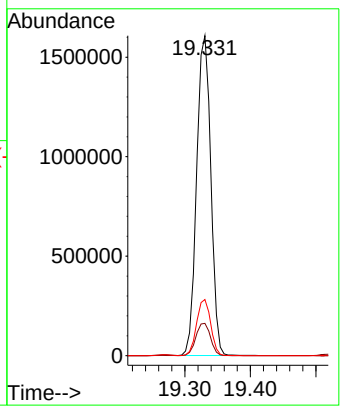


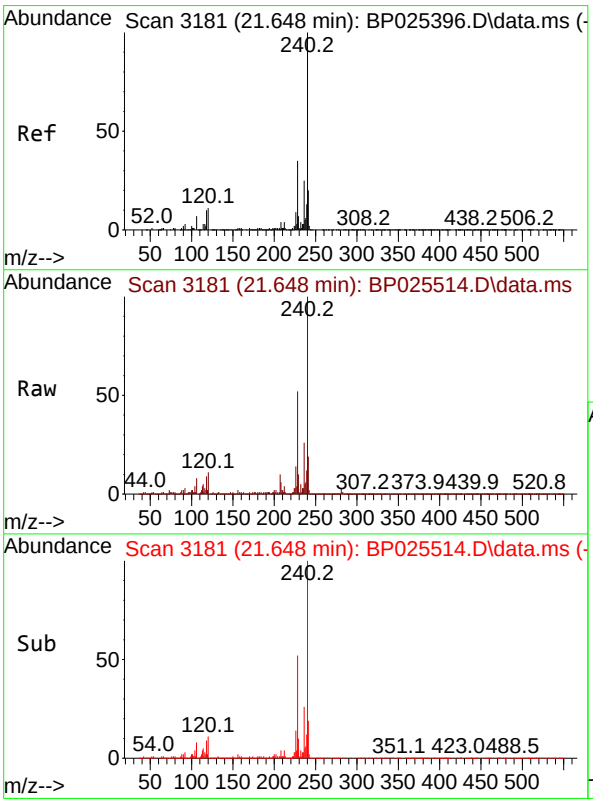
#75
Fluoranthene
Concen: 46.609 ng
RT: 19.331 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Instrument :
BNA_P
ClientSampleId :
PB169259BS

Tgt Ion:202 Resp: 2421989

Ion	Ratio	Lower	Upper
202	100		
101	10.1	0.0	31.1
203	17.5	0.0	37.3

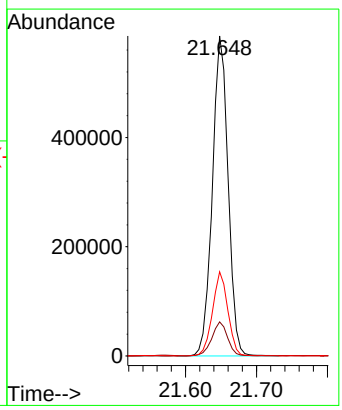


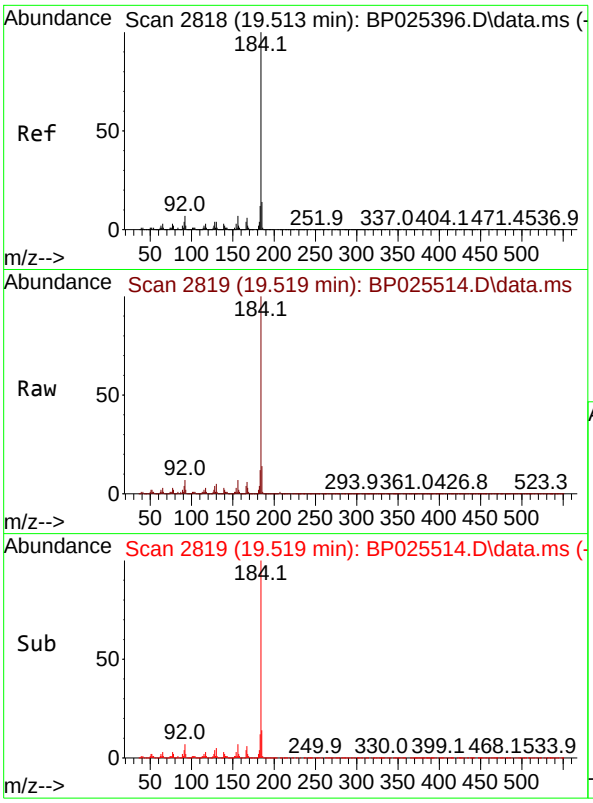


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.648 min Scan# 3181
Delta R.T. 0.000 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Tgt Ion:240 Resp: 903156

Ion	Ratio	Lower	Upper
240	100		
120	10.6	8.9	13.3
236	26.3	19.8	29.8



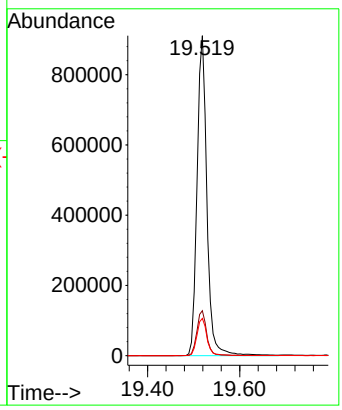


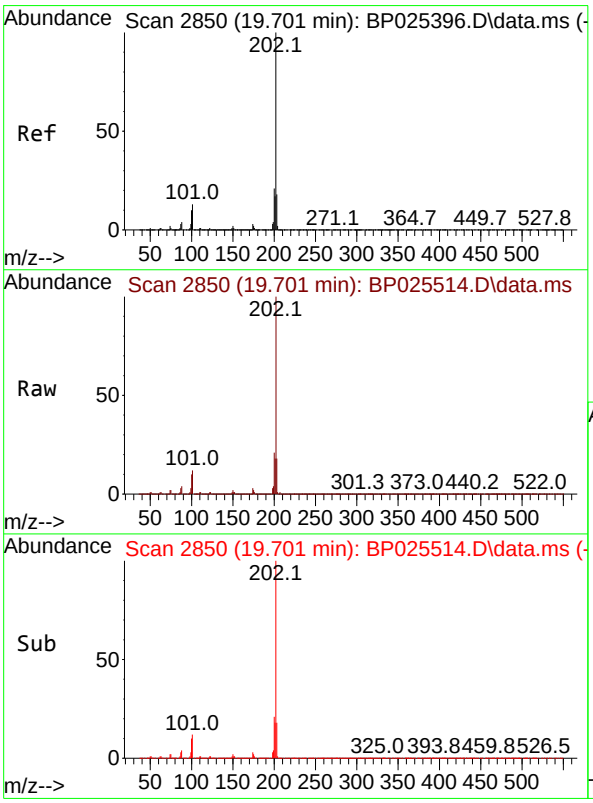
#77
Benzidine
Concen: 43.817 ng
RT: 19.519 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Instrument :
BNA_P
ClientSampleId :
PB169259BS

Tgt Ion:184 Resp: 1350558

Ion	Ratio	Lower	Upper
184	100		
185	14.1	11.5	17.3
183	11.6	9.4	14.2

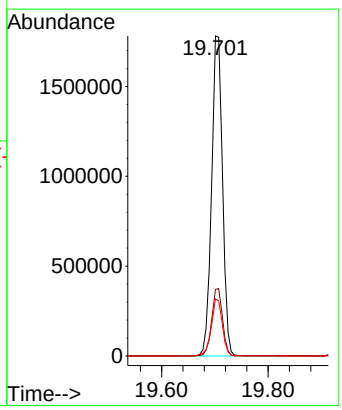


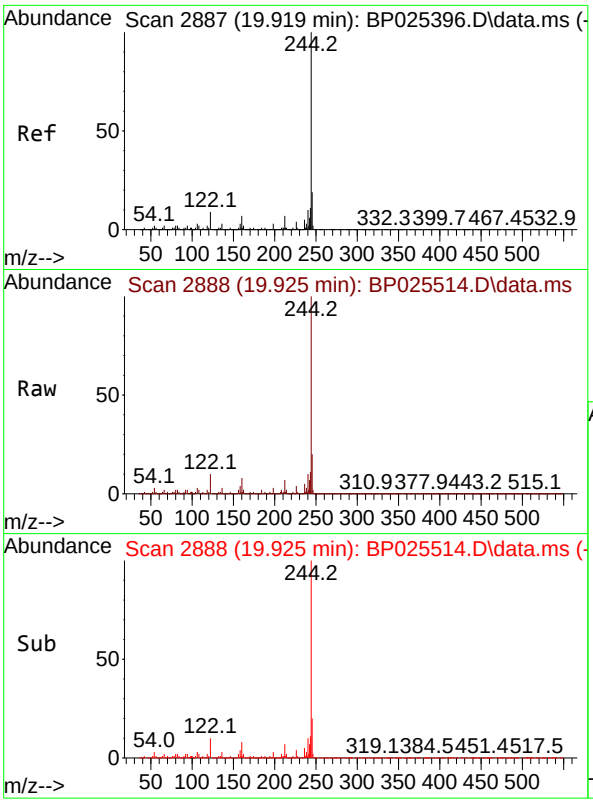


#78
Pyrene
Concen: 43.232 ng
RT: 19.701 min Scan# 2850
Delta R.T. 0.000 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Tgt Ion:202 Resp: 2537821

Ion	Ratio	Lower	Upper
202	100		
200	20.8	16.9	25.3
203	17.8	14.2	21.2



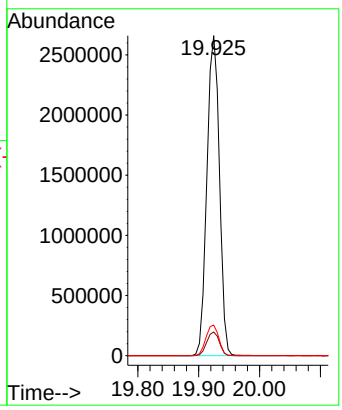


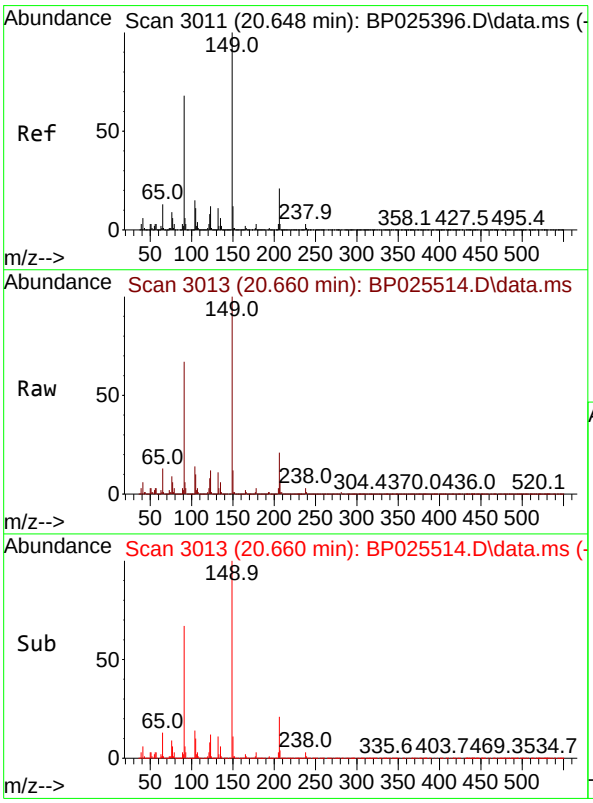
#79
Terphenyl-d14
Concen: 76.915 ng
RT: 19.925 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Instrument :
BNA_P
ClientSampleId :
PB169259BS

Tgt Ion:244 Resp: 3796862

Ion	Ratio	Lower	Upper
244	100		
212	7.4	5.8	8.6
122	9.5	7.4	11.2

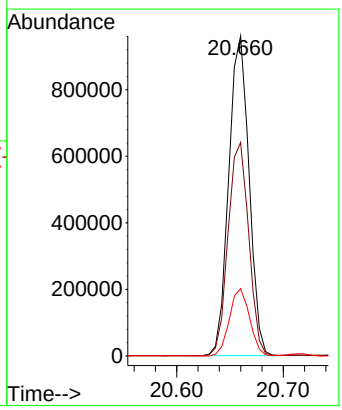


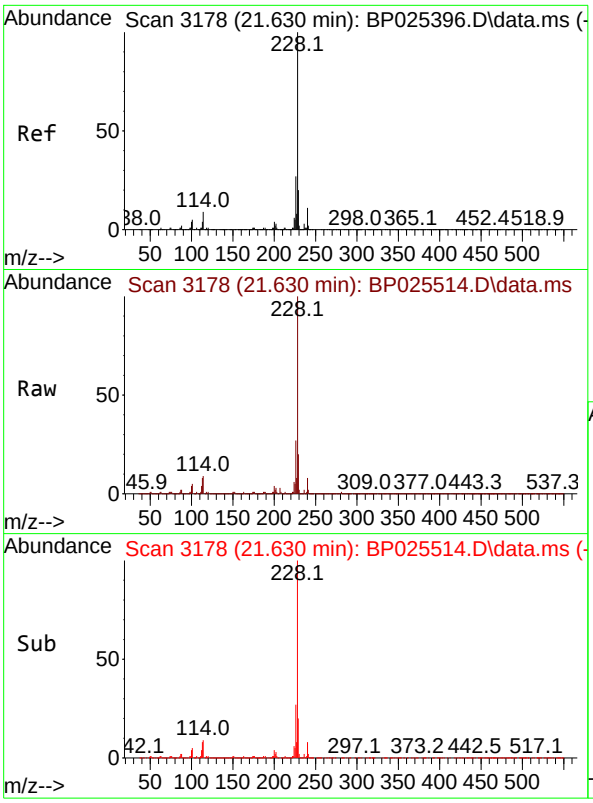


#80
Butylbenzylphthalate
Concen: 47.921 ng
RT: 20.660 min Scan# 3013
Delta R.T. 0.012 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Tgt Ion:149 Resp: 1274909

Ion	Ratio	Lower	Upper
149	100		
91	66.7	54.2	81.2
206	21.0	16.6	24.8



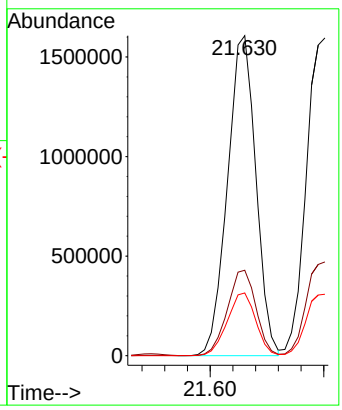


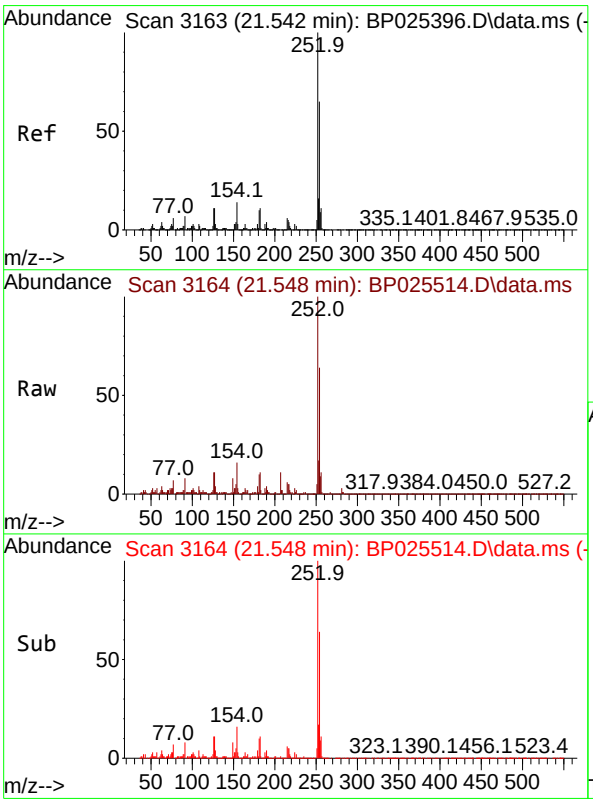
#81
Benzo(a)anthracene
Concen: 46.868 ng
RT: 21.630 min Scan# 3
Delta R.T. 0.000 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Instrument :
BNA_P
ClientSampleId :
PB169259BS

Tgt Ion:228 Resp: 2791590

Ion	Ratio	Lower	Upper
228	100		
226	26.7	21.7	32.5
229	19.6	15.6	23.4

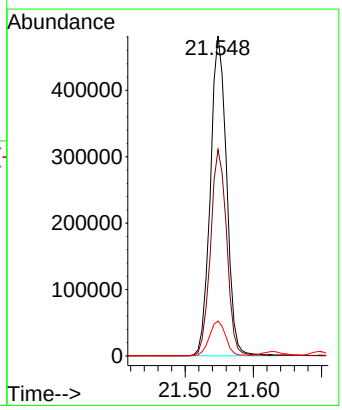


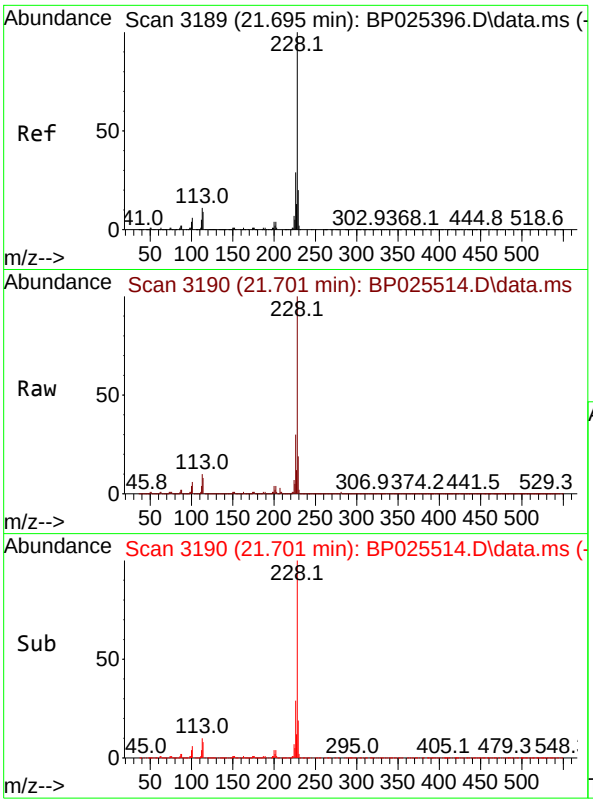


#82
3,3'-Dichlorobenzidine
Concen: 35.496 ng
RT: 21.548 min Scan# 3164
Delta R.T. 0.006 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Tgt Ion:252 Resp: 796924

Ion	Ratio	Lower	Upper
252	100		
254	64.5	51.8	77.6
126	10.9	9.1	13.7



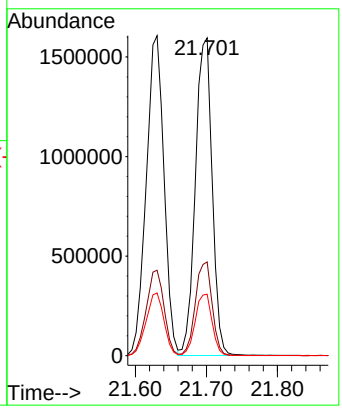


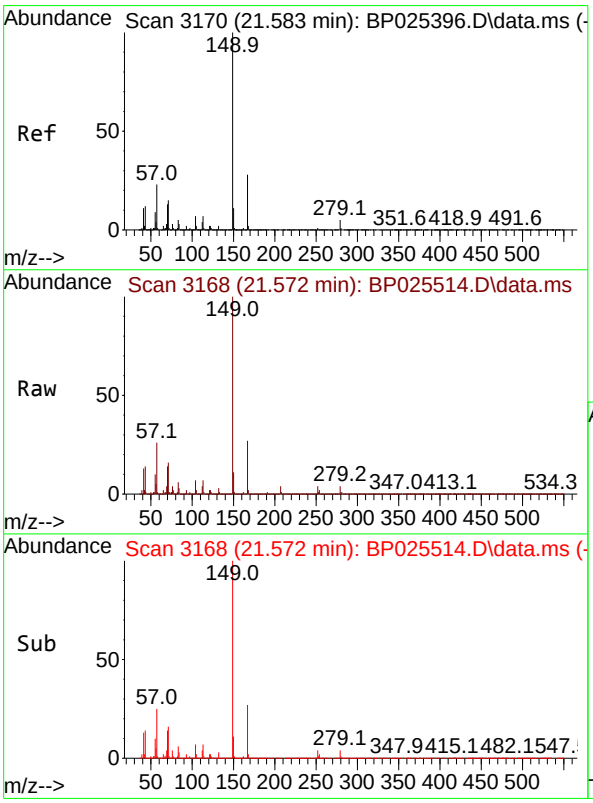
#83
Chrysene
Concen: 47.011 ng
RT: 21.701 min Scan# 3
Delta R.T. 0.006 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Instrument :
BNA_P
ClientSampleId :
PB169259BS

Tgt Ion:228 Resp: 2622312

Ion	Ratio	Lower	Upper
228	100		
226	29.5	23.2	34.8
229	19.3	15.6	23.4

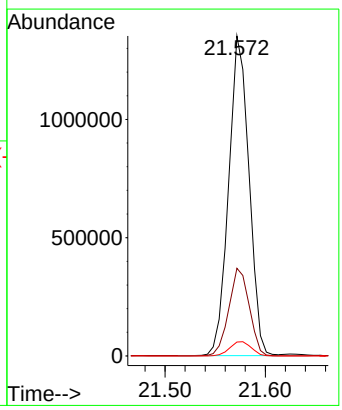


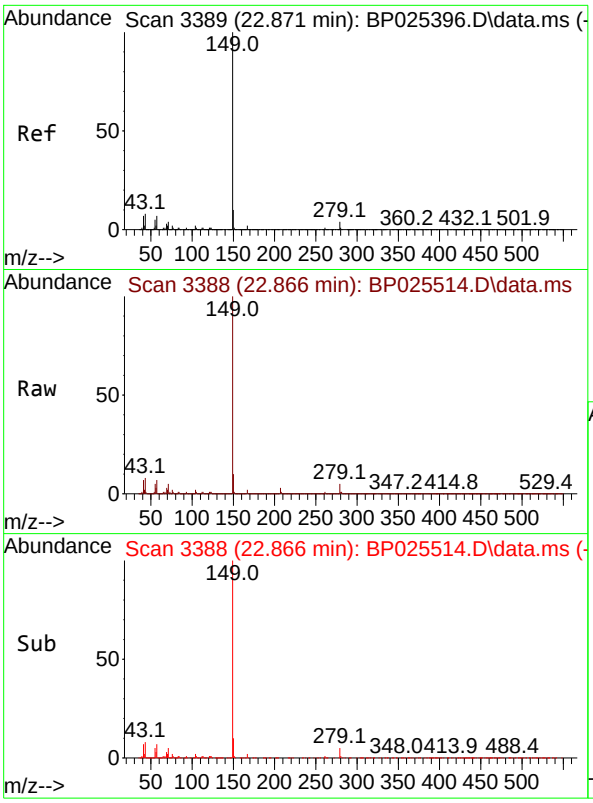


#84
Bis(2-ethylhexyl)phthalate
Concen: 48.751 ng
RT: 21.572 min Scan# 3168
Delta R.T. -0.012 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Tgt Ion:149 Resp: 1909245

Ion	Ratio	Lower	Upper
149	100		
167	27.4	22.1	33.1
279	4.4	3.8	5.6



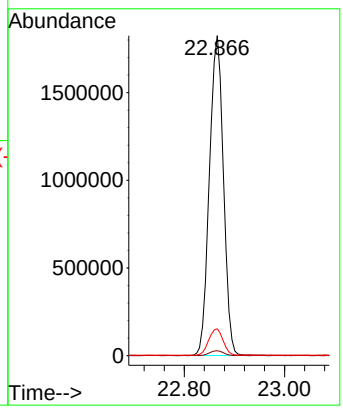


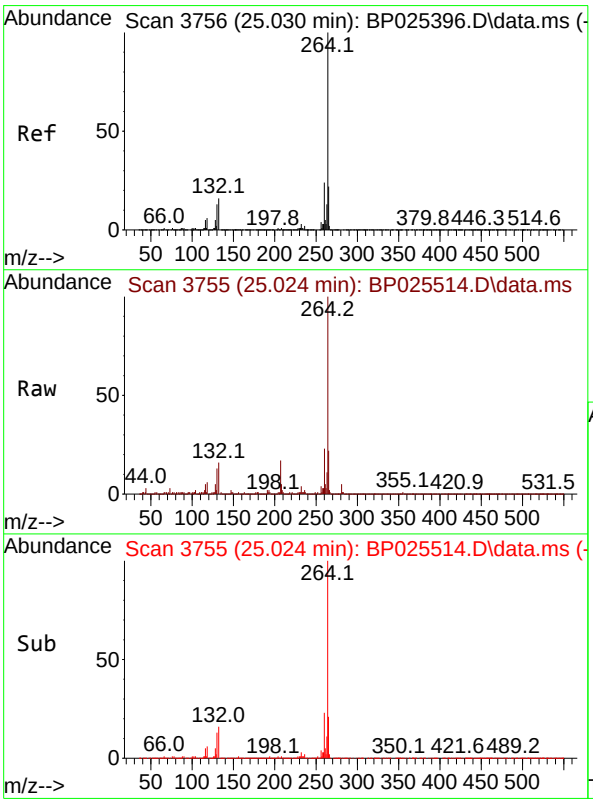
#85
Di-n-octyl phthalate
Concen: 52.570 ng
RT: 22.866 min Scan# 3
Delta R.T. -0.006 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Instrument :
BNA_P
ClientSampleId :
PB169259BS

Tgt Ion:149 Resp: 3541294

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	8.5	6.3	9.5

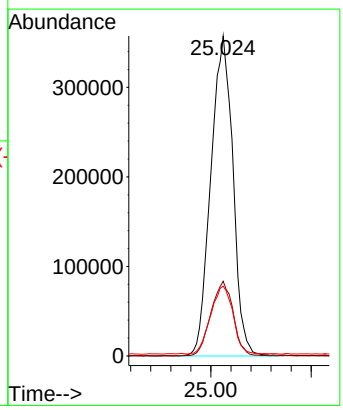


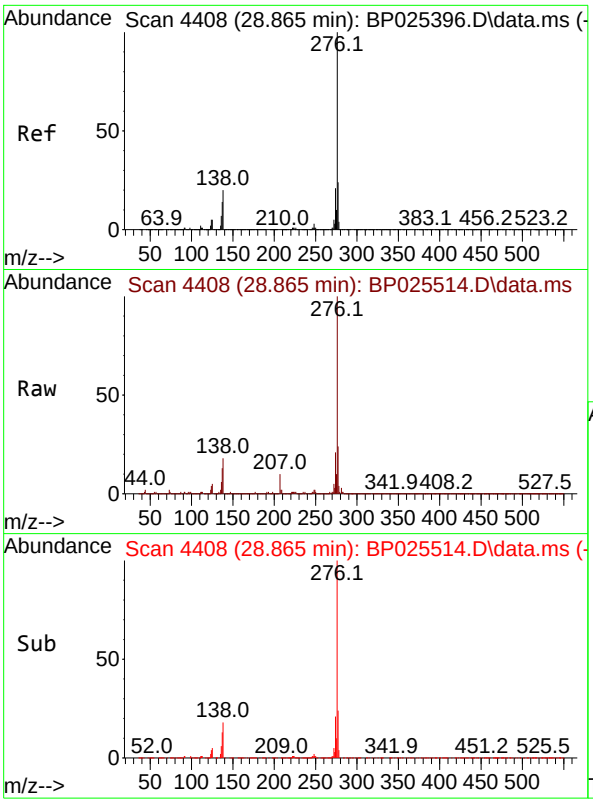


#86
Perylene-d12
Concen: 20.000 ng
RT: 25.024 min Scan# 3755
Delta R.T. -0.006 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Tgt Ion:264 Resp: 1093749

Ion	Ratio	Lower	Upper
264	100		
260	23.3	19.3	28.9
265	21.8	17.4	26.0



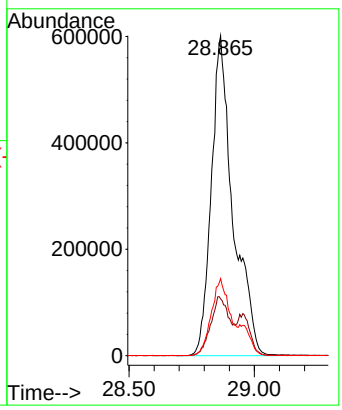


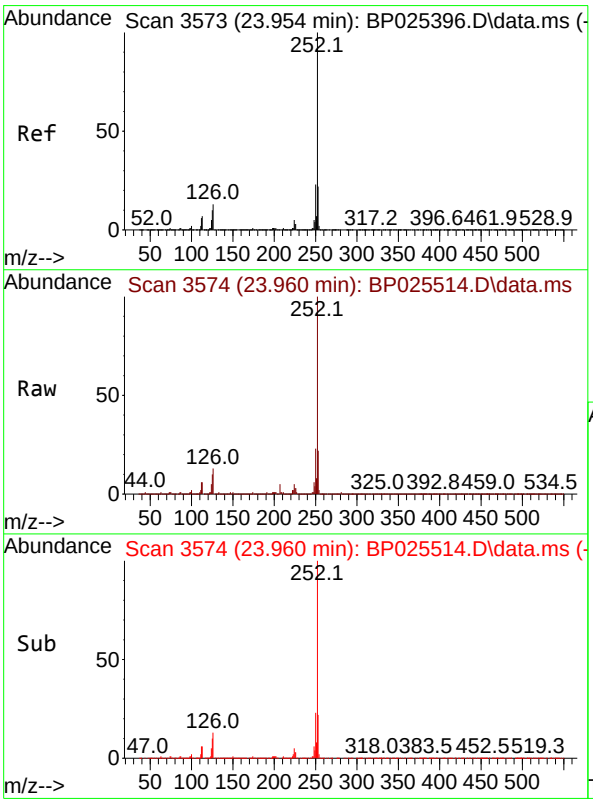
#87
Indeno(1,2,3-cd)pyrene
Concen: 45.073 ng
RT: 28.865 min Scan# 44
Delta R.T. 0.000 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Instrument :
BNA_P
ClientSampleId :
PB169259BS

Tgt Ion:276 Resp: 3615356

Ion	Ratio	Lower	Upper
276	100		
138	16.2	12.9	19.3
277	20.8	17.0	25.6

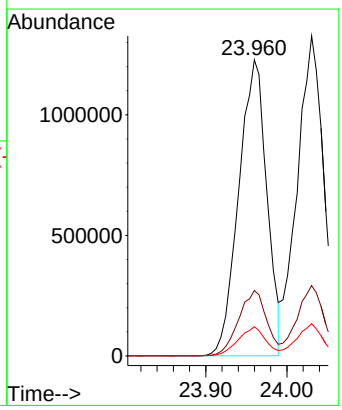


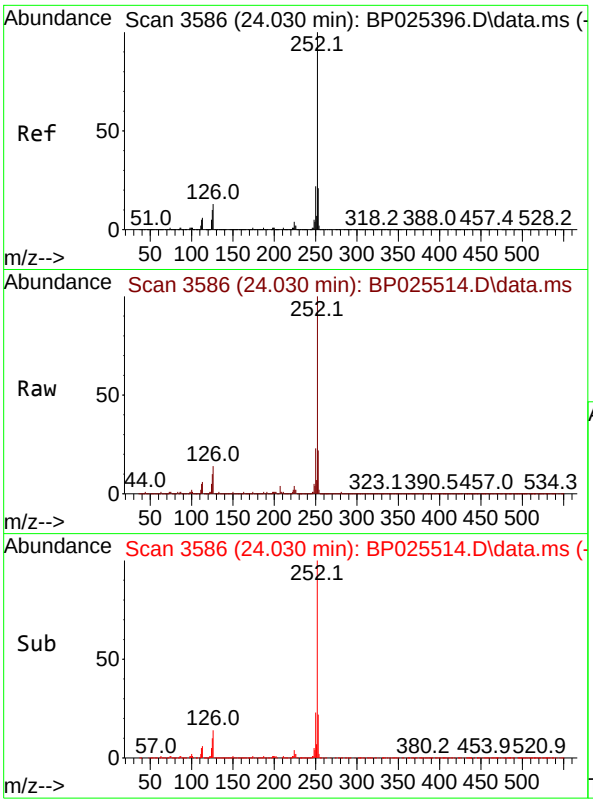


#88
Benzo(b)fluoranthene
Concen: 45.764 ng
RT: 23.960 min Scan# 3574
Delta R.T. 0.006 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Tgt Ion:252 Resp: 2951588

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.7	26.5
125	9.9	7.9	11.9



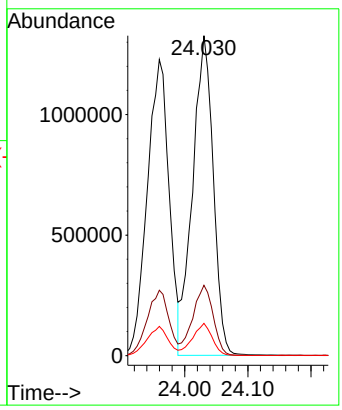


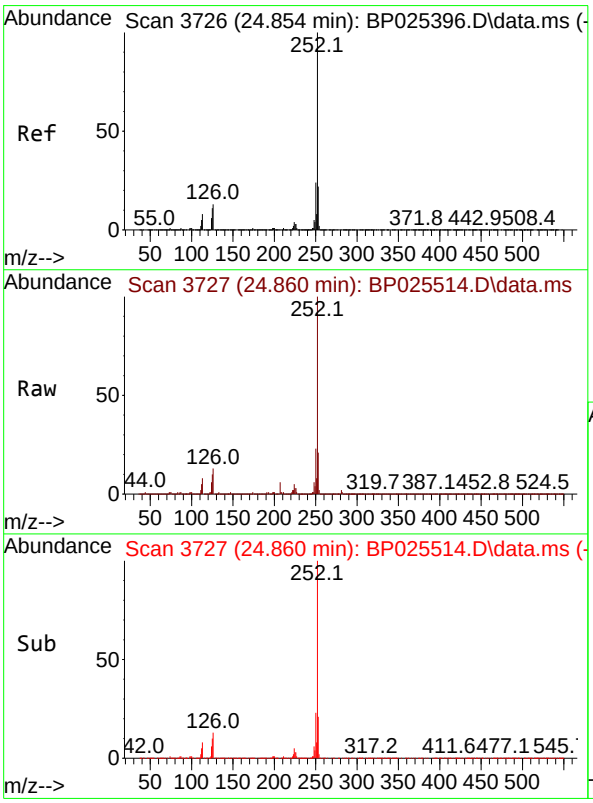
#89
Benzo(k)fluoranthene
Concen: 46.616 ng
RT: 24.030 min Scan# 3
Delta R.T. 0.000 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Instrument :
BNA_P
ClientSampleId :
PB169259BS

Tgt Ion:252 Resp: 3008563

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.1	25.7
125	10.1	7.8	11.6

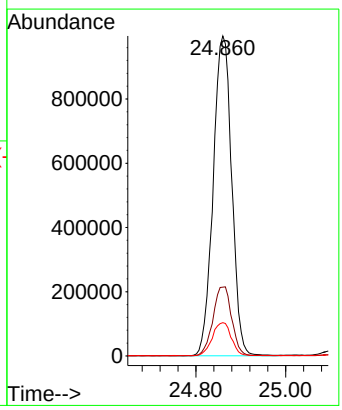


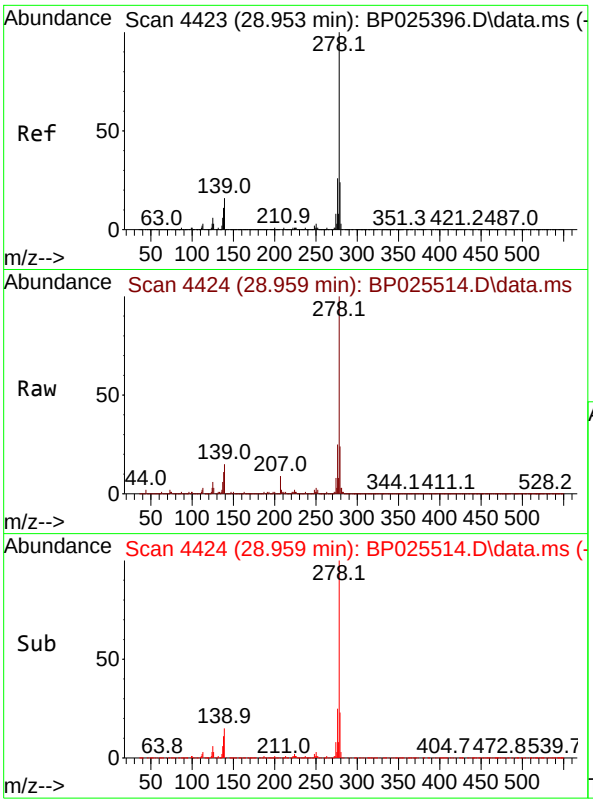


#90
Benzo(a)pyrene
Concen: 45.666 ng
RT: 24.860 min Scan# 3727
Delta R.T. 0.006 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Tgt Ion:252 Resp: 2866956

Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.5	26.3
125	10.4	8.7	13.1



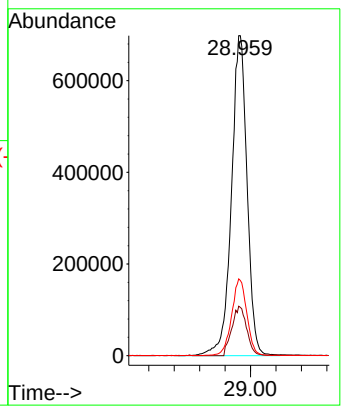


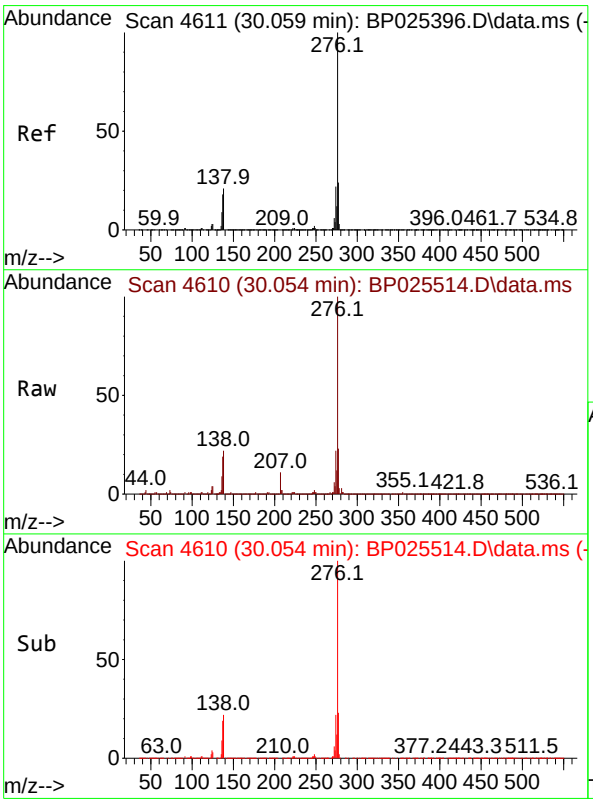
#91
Dibenzo(a,h)anthracene
Concen: 45.399 ng
RT: 28.959 min Scan# 44
Delta R.T. 0.006 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Instrument :
BNA_P
ClientSampleId :
PB169259BS

Tgt Ion:278 Resp: 2975886

Ion	Ratio	Lower	Upper
278	100		
139	15.1	13.0	19.4
279	23.5	19.4	29.2

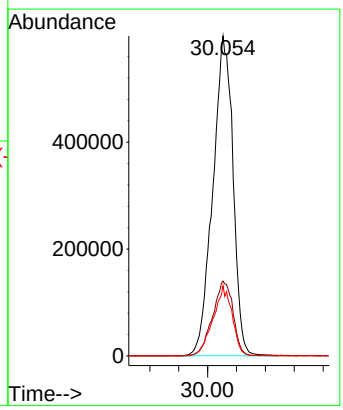




#92
Benzo(g,h,i)perylene
Concen: 45.017 ng
RT: 30.054 min Scan# 4610
Delta R.T. -0.006 min
Lab File: BP025514.D
Acq: 20 Aug 2025 19:49

Tgt Ion:276 Resp: 2900628

Ion	Ratio	Lower	Upper
276	100		
277	23.4	19.4	29.0
138	22.0	16.7	25.1



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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/04/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	22BP-WMS	SDG No.:	Q2819
Lab Sample ID:	Q2819-03MS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	85.8
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP025516.D	1	08/14/25 08:40	08/20/25 21:11	PB169242

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
100-52-7	Benzaldehyde	1100		180	310	380	ug/Kg
108-95-2	Phenol	1900		25.7	150	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1800		28.3	150	200	ug/Kg
95-57-8	2-Chlorophenol	1900		28.4	150	200	ug/Kg
95-48-7	2-Methylphenol	1900		34.8	150	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1800		43.6	150	200	ug/Kg
98-86-2	Acetophenone	1800		34.3	150	200	ug/Kg
65794-96-9	3+4-Methylphenols	1900		47.8	310	380	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1700		55.1	93.1	93.1	ug/Kg
67-72-1	Hexachloroethane	1800		20.5	150	200	ug/Kg
98-95-3	Nitrobenzene	1800		21.3	150	200	ug/Kg
78-59-1	Isophorone	1800		38.2	150	200	ug/Kg
88-75-5	2-Nitrophenol	1900		67.7	150	200	ug/Kg
105-67-9	2,4-Dimethylphenol	1900		75.4	150	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1800		35.8	150	200	ug/Kg
120-83-2	2,4-Dichlorophenol	2000		32.9	150	200	ug/Kg
91-20-3	Naphthalene	1800		26.4	150	200	ug/Kg
106-47-8	4-Chloroaniline	960		41.2	150	200	ug/Kg
87-68-3	Hexachlorobutadiene	1800		29.4	150	200	ug/Kg
105-60-2	Caprolactam	2000		60.6	310	380	ug/Kg
59-50-7	4-Chloro-3-methylphenol	2000		33.4	150	200	ug/Kg
91-57-6	2-Methylnaphthalene	1800		29.8	150	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	3500	E	130	310	380	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1900		23.0	150	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	2000		33.8	150	200	ug/Kg
92-52-4	1,1-Biphenyl	1800		25.4	150	200	ug/Kg
91-58-7	2-Chloronaphthalene	1800		26.2	150	200	ug/Kg
88-74-4	2-Nitroaniline	2000		55.9	150	200	ug/Kg
131-11-3	Dimethylphthalate	1900		31.5	150	200	ug/Kg

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Fax : 908 789 8922

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/04/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	22BP-WMS	SDG No.:	Q2819
Lab Sample ID:	Q2819-03MS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	85.8
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP025516.D	1	08/14/25 08:40	08/20/25 21:11	PB169242

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1800		33.6	150	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	2000		39.1	150	200	ug/Kg
99-09-2	3-Nitroaniline	1300		53.5	150	200	ug/Kg
83-32-9	Acenaphthene	1700		24.8	150	200	ug/Kg
51-28-5	2,4-Dinitrophenol	4500	E	270	310	380	ug/Kg
100-02-7	4-Nitrophenol	3900	E	120	310	380	ug/Kg
132-64-9	Dibenzofuran	1800		26.4	150	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	2000		58.3	150	200	ug/Kg
84-66-2	Diethylphthalate	1900		32.9	150	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1700		31.1	150	200	ug/Kg
86-73-7	Fluorene	1800		29.4	150	200	ug/Kg
100-01-6	4-Nitroaniline	1800		74.7	150	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	2000		120	310	380	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1800		38.3	150	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1900		32.3	150	200	ug/Kg
118-74-1	Hexachlorobenzene	1800		29.4	150	200	ug/Kg
1912-24-9	Atrazine	1900		39.5	150	200	ug/Kg
87-86-5	Pentachlorophenol	3900	E	59.7	310	380	ug/Kg
85-01-8	Phenanthrene	1800		24.3	150	200	ug/Kg
120-12-7	Anthracene	1800		38.7	150	200	ug/Kg
86-74-8	Carbazole	1800		36.3	150	200	ug/Kg
84-74-2	Di-n-butylphthalate	1900		55.7	150	200	ug/Kg
206-44-0	Fluoranthene	1700		34.9	150	200	ug/Kg
129-00-0	Pyrene	2100		41.9	150	200	ug/Kg
85-68-7	Butylbenzylphthalate	2100		83.1	150	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1300		42.7	310	380	ug/Kg
56-55-3	Benzo(a)anthracene	1800		26.8	150	200	ug/Kg
218-01-9	Chrysene	1800		23.1	150	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1900		68.9	150	200	ug/Kg
117-84-0	Di-n-octyl phthalate	1800		100	310	380	ug/Kg
205-99-2	Benzo(b)fluoranthene	1900		22.1	150	200	ug/Kg

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/04/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	22BP-WMS	SDG No.:	Q2819
Lab Sample ID:	Q2819-03MS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	85.8
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP025516.D	1	08/14/25 08:40	08/20/25 21:11	PB169242

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1800		26.1	150	200	ug/Kg
50-32-8	Benzo(a)pyrene	1800		34.3	150	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1900		33.8	150	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1900		31.9	150	200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1900		29.9	150	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1700		29.8	150	200	ug/Kg
123-91-1	1,4-Dioxane	1500		52.6	150	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	2000		31.9	150	200	ug/Kg
SURROGATES							
367-12-4	2-Fluorophenol	102		35 - 115		68%	SPK: 150
13127-88-3	Phenol-d6	105		34 - 127		70%	SPK: 150
4165-60-0	Nitrobenzene-d5	65.0		37 - 122		65%	SPK: 100
321-60-8	2-Fluorobiphenyl	58.5		44 - 115		58%	SPK: 100
118-79-6	2,4,6-Tribromophenol	106		39 - 132		70%	SPK: 150
1718-51-0	Terphenyl-d14	70.4		54 - 127		70%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	197000	7.79				
1146-65-2	Naphthalene-d8	796000	10.555				
15067-26-2	Acenaphthene-d10	542000	14.407				
1517-22-2	Phenanthrene-d10	1090000	17.207				
1719-03-5	Chrysene-d12	893000	21.642				
1520-96-3	Perylene-d12	958000	25.024				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025516.D
Acq On : 20 Aug 2025 21:11
Operator : CG/JU
Sample : Q2819-03MS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 21 01:37:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
22BP-WMS

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 08/21/2025
Supervised By :Jagrut Upadhyay 08/21/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.790	152	196853	20.000	ng		0.00
21) Naphthalene-d8	10.555	136	796434	20.000	ng		0.00
39) Acenaphthene-d10	14.407	164	542391	20.000	ng		0.00
64) Phenanthrene-d10	17.207	188	1090849	20.000	ng		0.00
76) Chrysene-d12	21.642	240	892873	20.000	ng		0.00
86) Perylene-d12	25.024	264	958463	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.408	112	1211281	102.187	ng		0.00
7) Phenol-d6	6.972	99	1591692	104.735	ng		0.00
23) Nitrobenzene-d5	8.931	82	1023958	65.037	ng		0.00
42) 2,4,6-Tribromophenol	15.913	330	771618	105.692	ng		0.00
45) 2-Fluorobiphenyl	13.019	172	2319713	58.451	ng		0.00
79) Terphenyl-d14	19.925	244	3434227	70.370	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.331	88	174087	37.494	ng		96
3) Pyridine	3.725	79	483273	38.028	ng		95
4) n-Nitrosodimethylamine	3.631	42	256777	49.010	ng		90
6) Aniline	7.125	93	752387	36.745	ng		99
8) 2-Chlorophenol	7.366	128	652515	48.782	ng		100
9) Benzaldehyde	6.937	77	299983	28.174	ng		97
10) Phenol	7.002	94	788903	49.471	ng		97
11) bis(2-Chloroethyl)ether	7.219	93	565023	45.459	ng		99
12) 1,3-Dichlorobenzene	7.678	146	658534	44.648	ng		97
13) 1,4-Dichlorobenzene	7.825	146	666221	44.192	ng		98
14) 1,2-Dichlorobenzene	8.137	146	650052	44.544	ng		99
15) Benzyl Alcohol	8.025	79	586521	48.572	ng		95
16) 2,2'-oxybis(1-Chloropr...	8.308	45	772444	46.392	ng		99
17) 2-Methylphenol	8.225	107	541309	48.875	ng		98
18) Hexachloroethane	8.861	117	253613	45.754	ng		99
19) n-Nitroso-di-n-propyla...	8.584	70	447356	44.440	ng		97
20) 3+4-Methylphenols	8.549	107	747172	48.669	ng		98
22) Acetophenone	8.602	105	925700	46.348	ng	#	98
24) Nitrobenzene	8.972	77	669544	47.583	ng		99
25) Isophorone	9.502	82	1291341	46.346	ng		98
26) 2-Nitrophenol	9.678	139	359110	49.729	ng		99
27) 2,4-Dimethylphenol	9.743	122	616027	49.605	ng		97
28) bis(2-Chloroethoxy)met...	9.966	93	792282	47.040	ng		98
29) 2,4-Dichlorophenol	10.213	162	629551	51.032	ng		98
30) 1,2,4-Trichlorobenzene	10.425	180	608202	44.974	ng		98
31) Naphthalene	10.607	128	1888650	45.625	ng		99
32) Benzoic acid	9.908	122	515480	56.224	ng		96
33) 4-Chloroaniline	10.713	127	450951	24.662	ng		99
34) Hexachlorobutadiene	10.896	225	388664	46.148	ng		99
35) Caprolactam	11.507	113	233521m	51.624	ng		
36) 4-Chloro-3-methylphenol	11.843	107	734853	51.912	ng		95
37) 2-Methylnaphthalene	12.213	142	1263780	46.913	ng		99
38) 1-Methylnaphthalene	12.437	142	1302740	45.474	ng		100
40) 1,2,4,5-Tetrachloroben...	12.590	216	702998	44.877	ng		99
41) Hexachlorocyclopentadiene	12.566	237	844610	89.262	ng		99
43) 2,4,6-Trichlorophenol	12.825	196	529135	50.034	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025516.D
Acq On : 20 Aug 2025 21:11
Operator : CG/JU
Sample : Q2819-03MS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 21 01:37:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
22BP-WMS

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 08/21/2025
Supervised By :Jagrut Upadhyay 08/21/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.901	196	592451	51.115	ng	99
46) 1,1'-Biphenyl	13.225	154	1816843	46.123	ng	98
47) 2-Chloronaphthalene	13.272	162	1392441	45.407	ng	100
48) 2-Nitroaniline	13.466	65	470973	52.709	ng	96
49) Acenaphthylene	14.125	152	2335961	46.035	ng	100
50) Dimethylphthalate	13.854	163	1923497	48.428	ng	99
51) 2,6-Dinitrotoluene	13.972	165	423357	50.571	ng	94
52) Acenaphthene	14.472	154	1333260	44.762	ng	99
53) 3-Nitroaniline	14.307	138	306252	32.515	ng	96
54) 2,4-Dinitrophenol	14.513	184	518294	115.933	ng	97
55) Dibenzofuran	14.807	168	2154905	45.760	ng	98
56) 4-Nitrophenol	14.631	139	779771	100.749	ng	90
57) 2,4-Dinitrotoluene	14.772	165	614566	51.453	ng	97
58) Fluorene	15.472	166	1680951	45.238	ng	99
59) 2,3,4,6-Tetrachlorophenol	15.048	232	520533	50.862	ng	98
60) Diethylphthalate	15.237	149	1984056	49.161	ng	99
61) 4-Chlorophenyl-phenyle...	15.460	204	831152	44.976	ng	95
62) 4-Nitroaniline	15.490	138	454185	47.037	ng	94
63) Azobenzene	15.760	77	1878426	54.357	ng	99
65) 4,6-Dinitro-2-methylph...	15.548	198	350723	51.578	ng	94
66) n-Nitrosodiphenylamine	15.678	169	1571731	47.250	ng	100
67) 4-Bromophenyl-phenylether	16.372	248	585013	48.762	ng	96
68) Hexachlorobenzene	16.495	284	647628	46.567	ng	97
69) Atrazine	16.654	200	609543	48.929	ng	97
70) Pentachlorophenol	16.854	266	874797	99.646	ng	98
71) Phenanthrene	17.248	178	2736199	45.661	ng	99
72) Anthracene	17.337	178	2877852	47.028	ng	100
73) Carbazole	17.619	167	2644146	45.874	ng	99
74) Di-n-butylphthalate	18.213	149	3447802	48.618	ng	100
75) Fluoranthene	19.331	202	3141701	43.953	ng	98
77) Benzidine	19.519	184	1326808	43.542	ng	100
78) Pyrene	19.701	202	3208701	55.290	ng	100
80) Butylbenzylphthalate	20.654	149	1400983	53.266	ng	98
81) Benzo(a)anthracene	21.625	228	2805279	47.640	ng	100
82) 3,3'-Dichlorobenzidine	21.536	252	732910	33.021	ng	99
83) Chrysene	21.689	228	2621789	47.543	ng	99
84) Bis(2-ethylhexyl)phtha...	21.566	149	1896634	48.987	ng	100
85) Di-n-octyl phthalate	22.854	149	3136775	47.102	ng	99
87) Indeno(1,2,3-cd)pyrene	28.854	276	3460707m	49.235	ng	
88) Benzo(b)fluoranthene	23.960	252	2744537	48.561	ng	99
89) Benzo(k)fluoranthene	24.042	252	2665398	47.128	ng	99
90) Benzo(a)pyrene	24.866	252	2619564	47.615	ng	100
91) Dibenzo(a,h)anthracene	28.936	278	2852762	49.664	ng	99
92) Benzo(g,h,i)perylene	30.048	276	2821095	49.963	ng	98

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

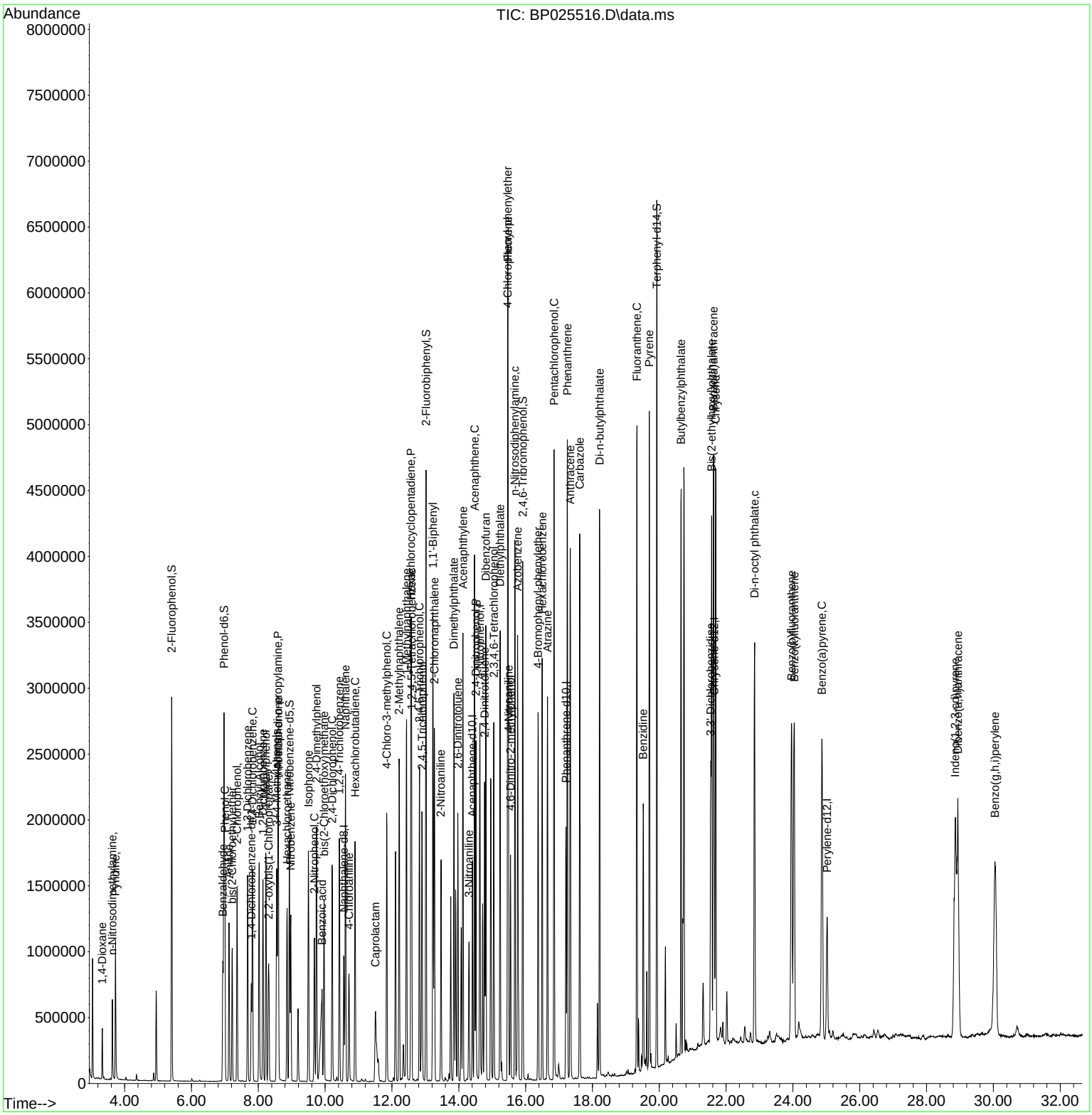
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025516.D
Acq On : 20 Aug 2025 21:11
Operator : CG/JU
Sample : Q2819-03MS
Misc :
ALS Vial : 6 Sample Multiplier: 1

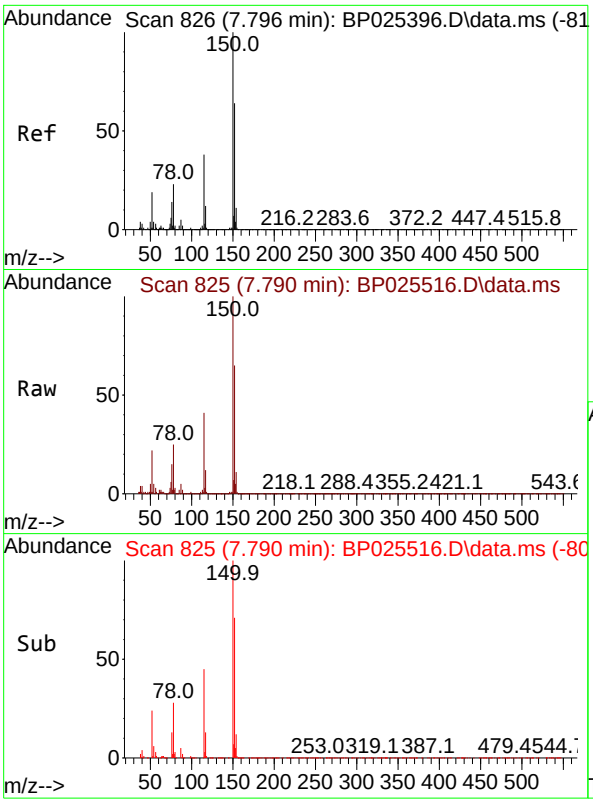
Quant Time: Aug 21 01:37:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
22BP-WMS

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 08/21/2025
Supervised By :Jagrut Upadhyay 08/21/2025

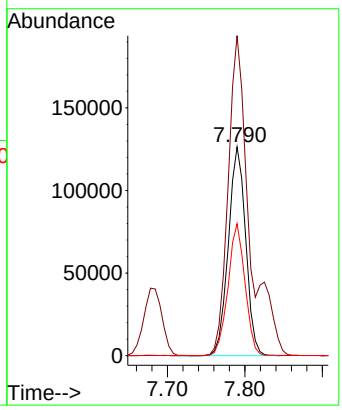




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.790 min Scan# 8
Delta R.T. -0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:152 Resp: 19685

Ion	Ratio	Lower	Upper
152	100		
150	153.3	125.9	188.9
115	63.3	48.5	72.7



Instrument :
BNA_P
ClientSampleId :
22BP-WMS

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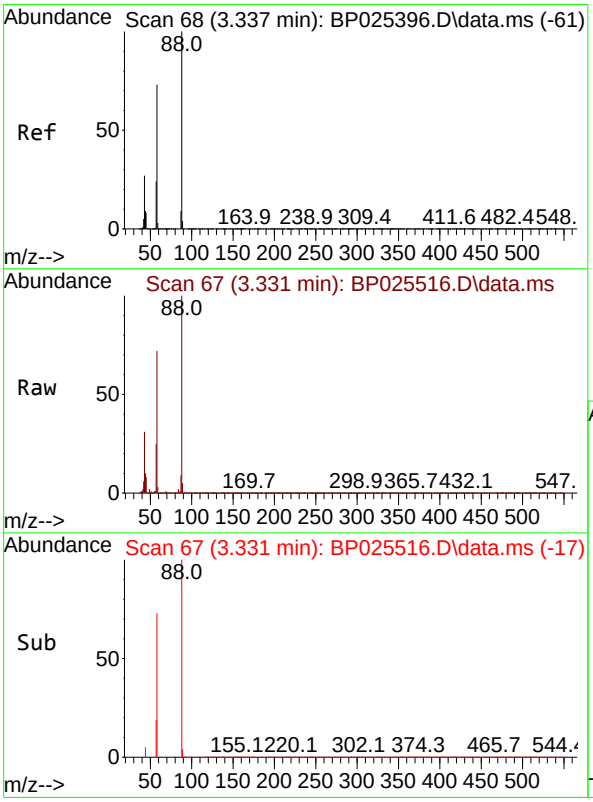
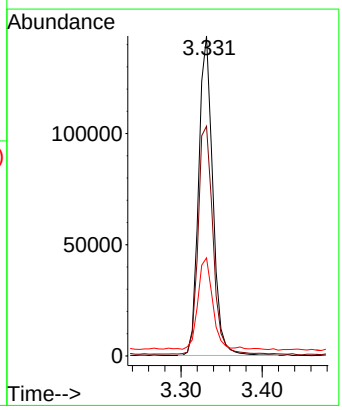
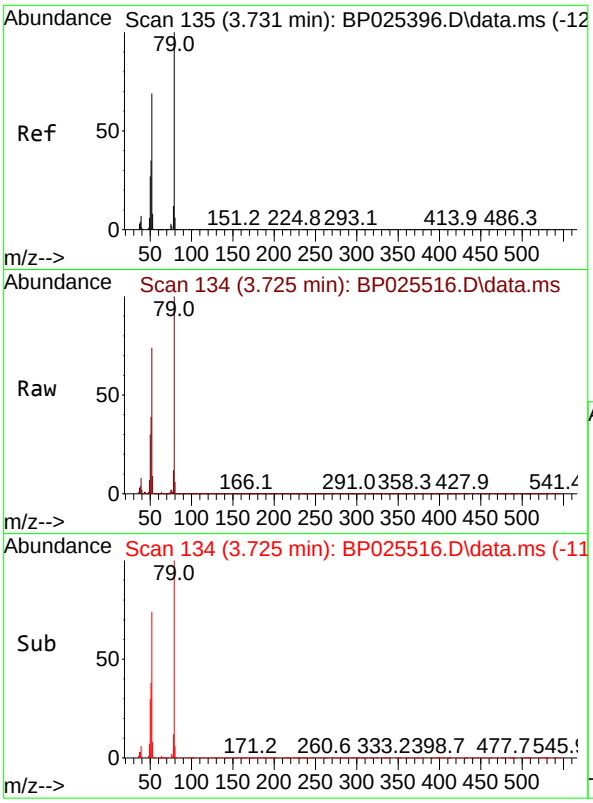


#2
1,4-Dioxane
Concen: 37.494 ng
RT: 3.331 min Scan# 67
Delta R.T. -0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion: 88 Resp: 174087

Ion	Ratio	Lower	Upper
88	100		
58	76.7	59.2	88.8
43	29.8	21.7	32.5

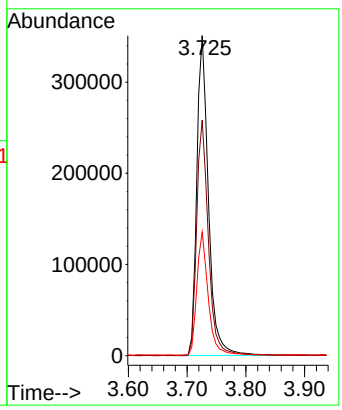




#3
Pyridine
Concen: 38.028 ng
RT: 3.725 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion: 79 Resp: 48327

Ion	Ratio	Lower	Upper
79	100		
52	73.6	55.5	83.3
51	38.6	28.3	42.5



Instrument :
BNA_P
ClientSampleId :
22BP-WMS

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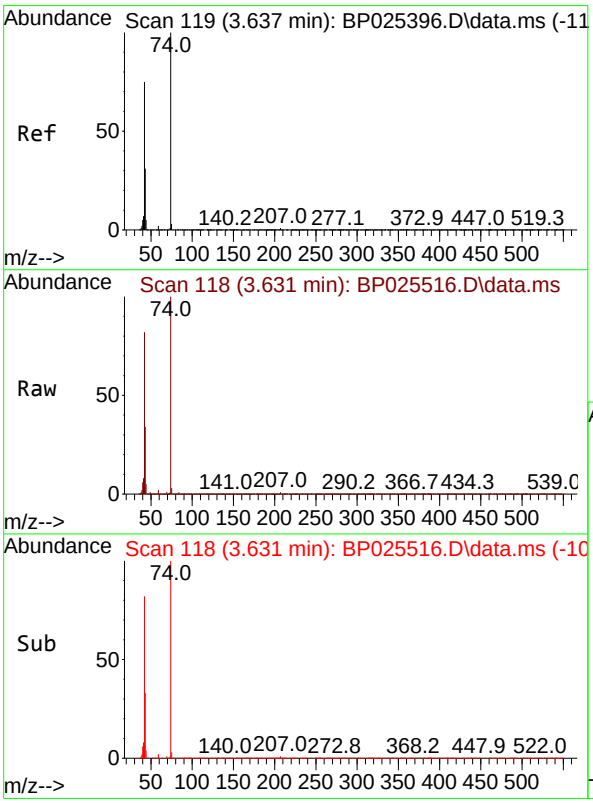
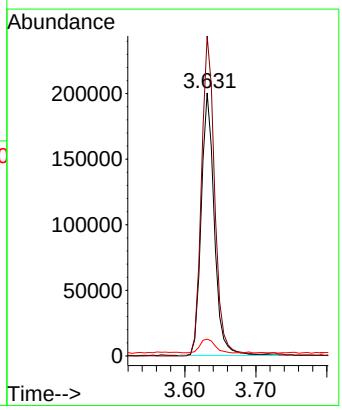
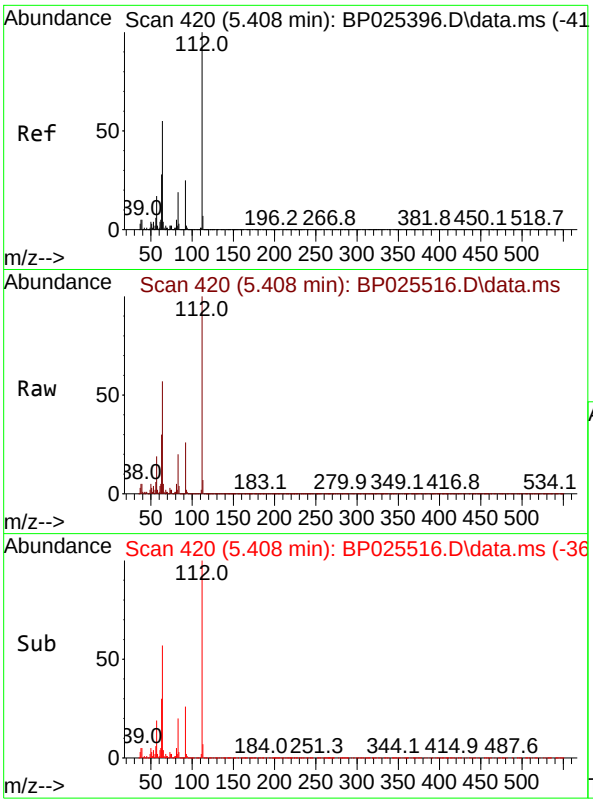


#4
n-Nitrosodimethylamine
Concen: 49.010 ng
RT: 3.631 min Scan# 118
Delta R.T. -0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion: 42 Resp: 256777

Ion	Ratio	Lower	Upper
42	100		
74	121.7	107.0	160.4
44	6.4	6.2	9.4

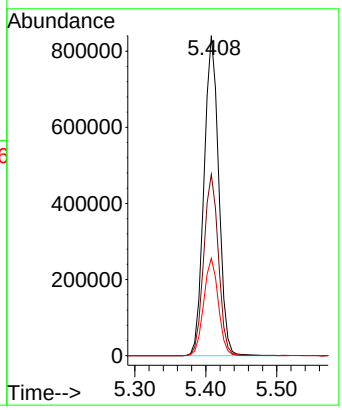




#5
2-Fluorophenol
Concen: 102.187 ng
RT: 5.408 min Scan# 4
Delta R.T. 0.000 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:112 Resp: 121128

Ion	Ratio	Lower	Upper
112	100		
64	56.6	43.8	65.8
63	30.4	22.7	34.1



Instrument :
BNA_P
ClientSampleId :
22BP-WMS

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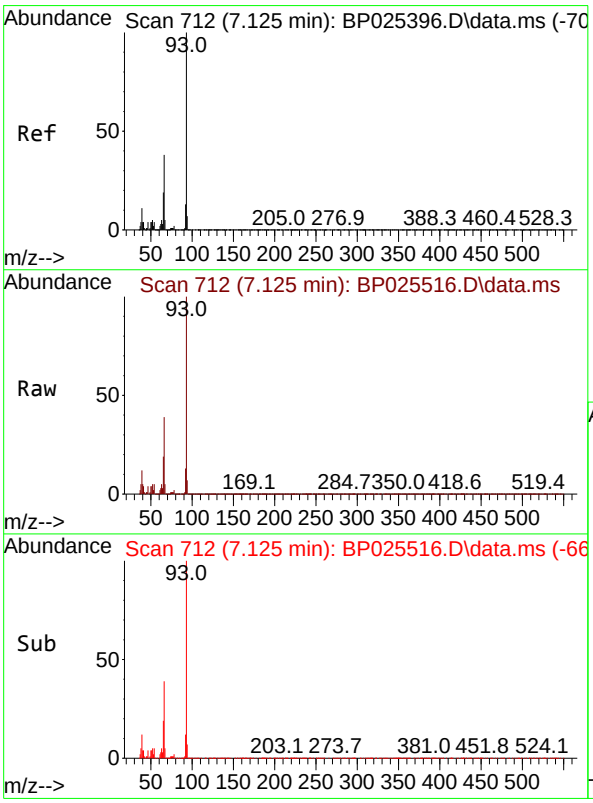
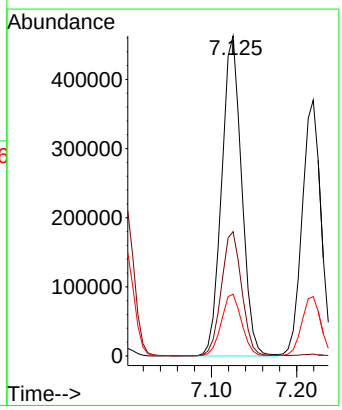
Supervised By :Jagrut Upadhyay 08/21/2025

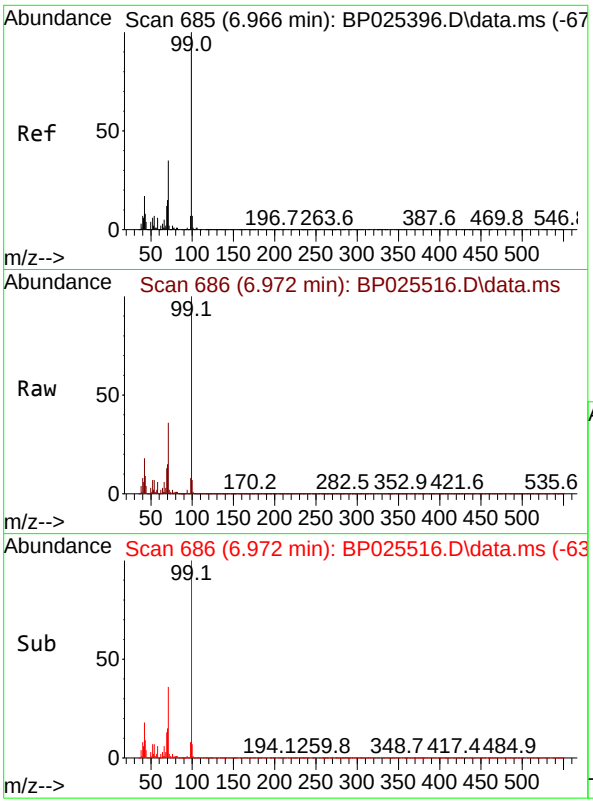


#6
Aniline
Concen: 36.745 ng
RT: 7.125 min Scan# 712
Delta R.T. 0.000 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion: 93 Resp: 752387

Ion	Ratio	Lower	Upper
93	100		
66	38.8	30.4	45.6
65	19.3	15.3	22.9

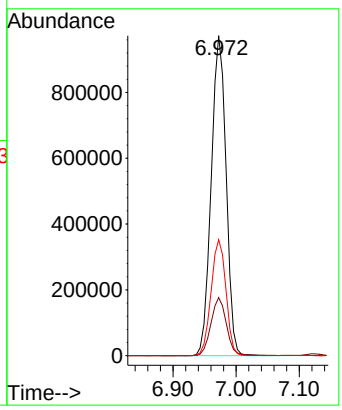




#7
Phenol-d6
Concen: 104.735 ng
RT: 6.972 min Scan# 6
Delta R.T. 0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion: 99 Resp: 159169

Ion	Ratio	Lower	Upper
99	100		
42	18.2	13.7	20.5
71	36.2	28.2	42.4



Instrument :
BNA_P
ClientSampleId :
22BP-WMS

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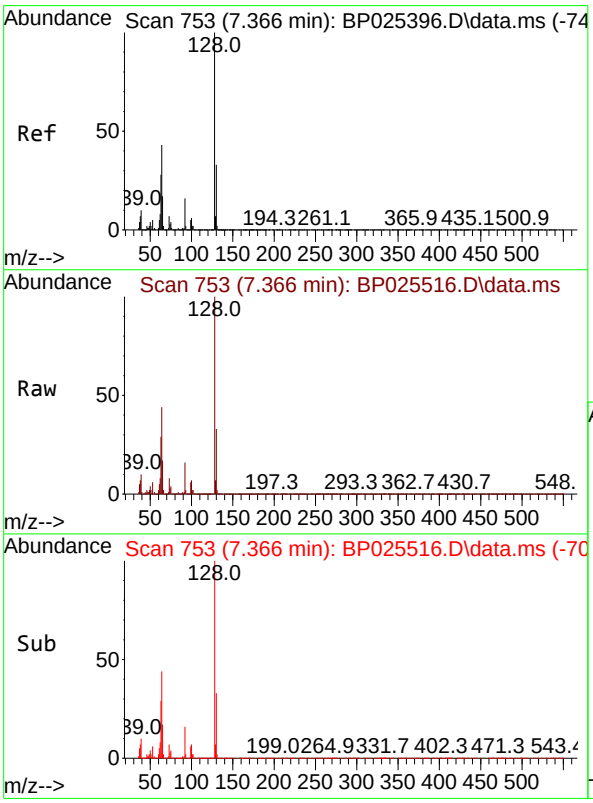
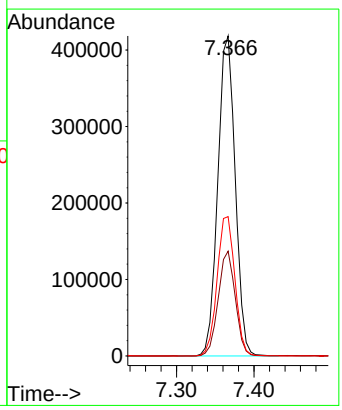
Supervised By :Jagrut Upadhyay 08/21/2025

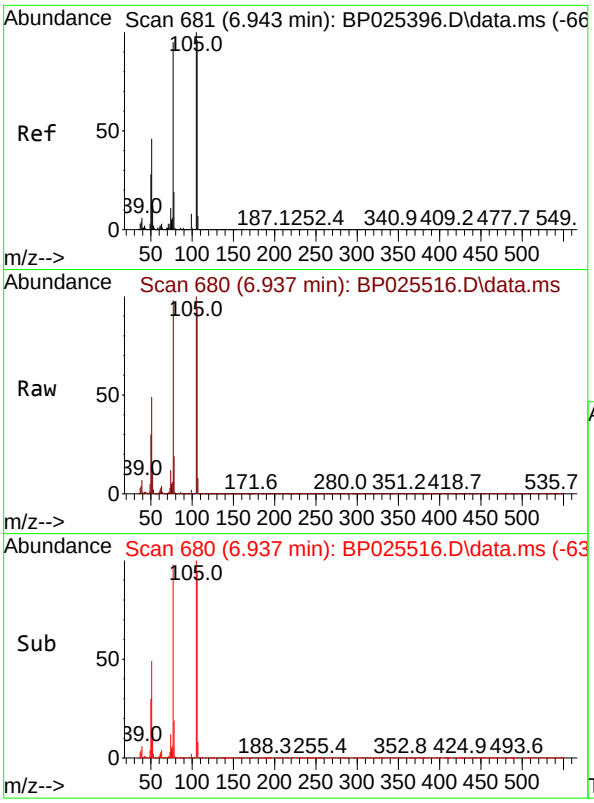


#8
2-Chlorophenol
Concen: 48.782 ng
RT: 7.366 min Scan# 753
Delta R.T. 0.000 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:128 Resp: 652515

Ion	Ratio	Lower	Upper
128	100		
130	32.7	12.6	52.6
64	43.6	23.4	63.4

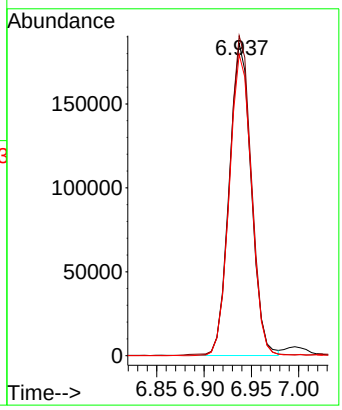




#9
Benzaldehyde
Concen: 28.174 ng
RT: 6.937 min Scan# 6
Delta R.T. -0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion: 77 Resp: 29998

Ion	Ratio	Lower	Upper
77	100		
105	102.5	84.8	124.8
106	96.5	80.5	120.5



Instrument :
BNA_P
ClientSampleId :
22BP-WMS

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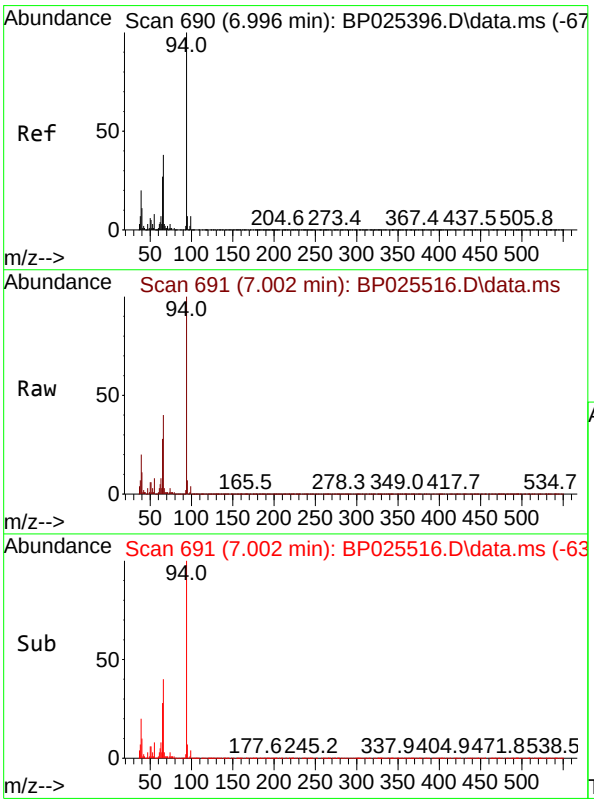
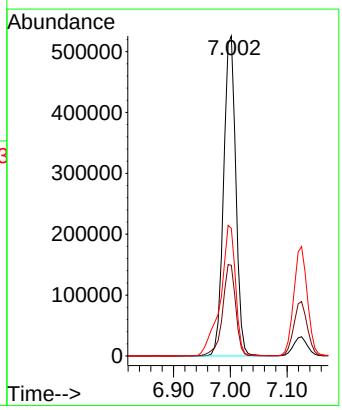
Supervised By :Jagrut Upadhyay 08/21/2025

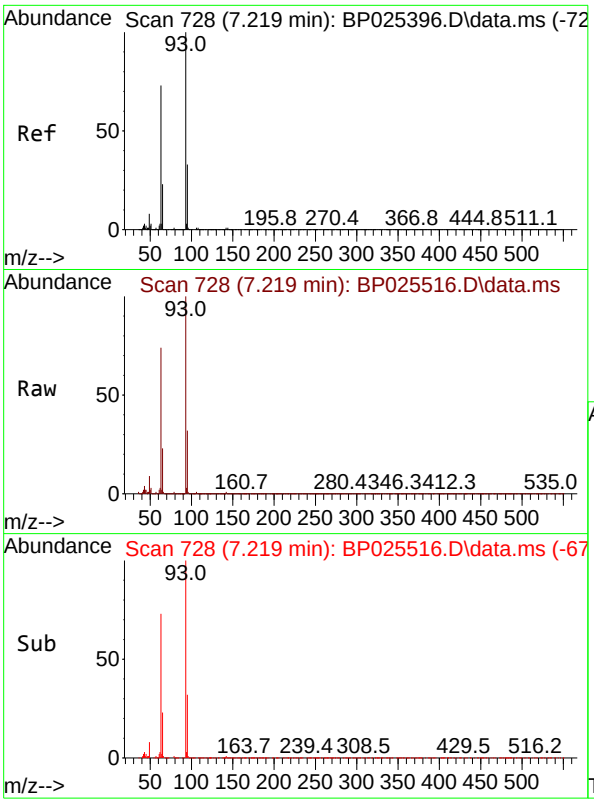


#10
Phenol
Concen: 49.471 ng
RT: 7.002 min Scan# 691
Delta R.T. 0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion: 94 Resp: 788903

Ion	Ratio	Lower	Upper
94	100		
65	28.3	6.8	46.8
66	39.9	18.2	58.2

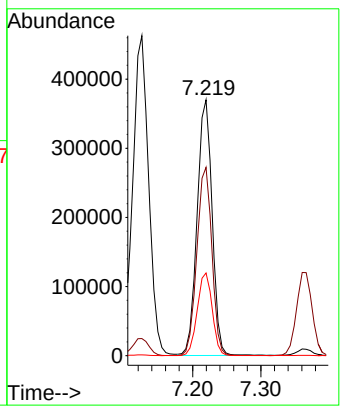




#11
bis(2-Chloroethyl)ether
Concen: 45.459 ng
RT: 7.219 min Scan# 7
Delta R.T. 0.000 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion: 93 Resp: 56502

Ion	Ratio	Lower	Upper
93	100		
63	73.6	52.6	92.6
95	32.3	12.7	52.7



Instrument :
BNA_P
ClientSampleId :
22BP-WMS

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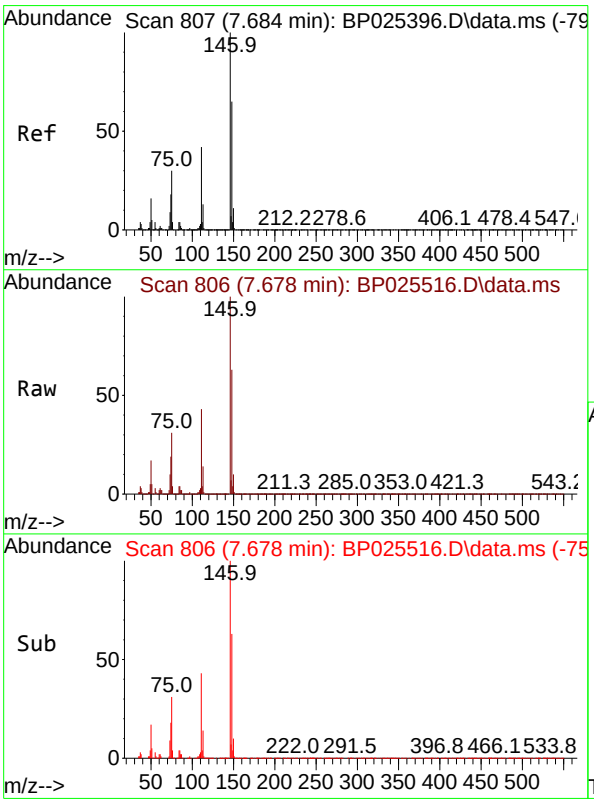
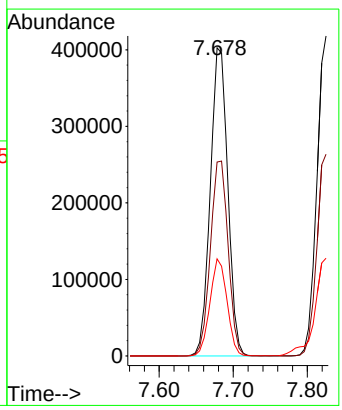
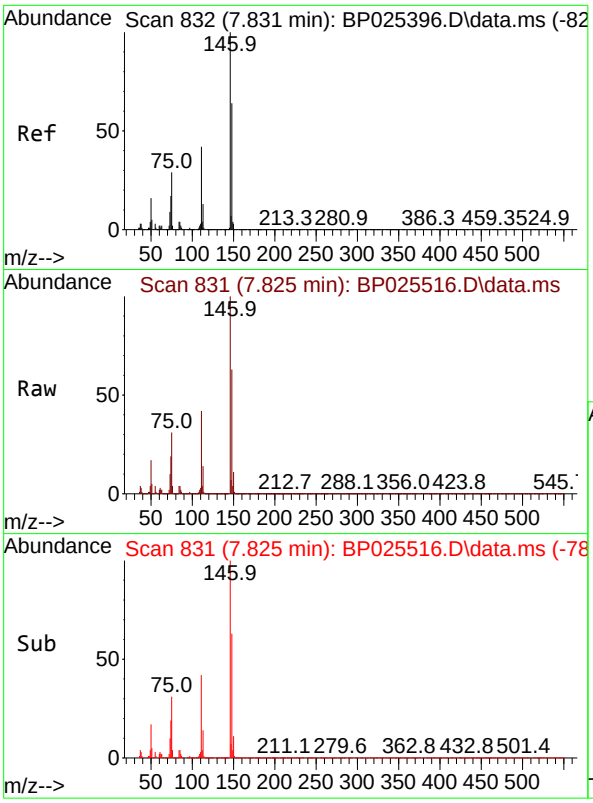


#12
1,3-Dichlorobenzene
Concen: 44.648 ng
RT: 7.678 min Scan# 806
Delta R.T. -0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:146 Resp: 658534

Ion	Ratio	Lower	Upper
146	100		
148	62.9	51.9	77.9
75	31.5	23.7	35.5





#13
1,4-Dichlorobenzene
Concen: 44.192 ng
RT: 7.825 min Scan# 8
Delta R.T. -0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:146 Resp: 66622

Ion	Ratio	Lower	Upper
146	100		
148	63.0	51.6	77.4
111	42.5	33.4	50.0

Instrument :
BNA_P
ClientSampleId :
22BP-WMS

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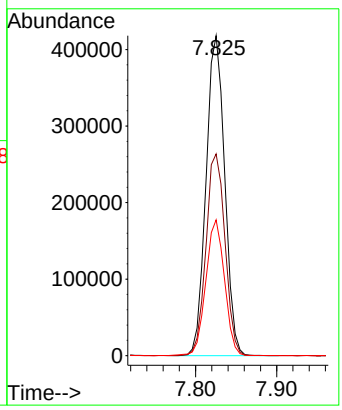
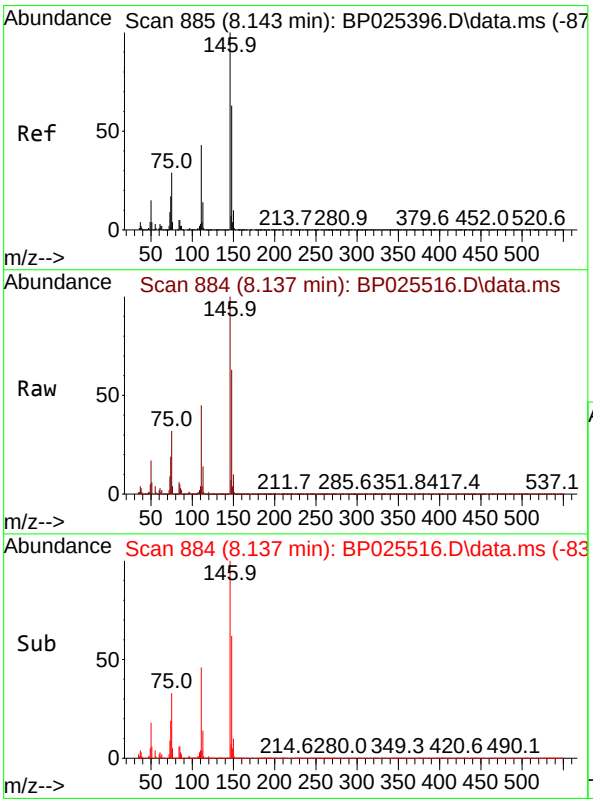
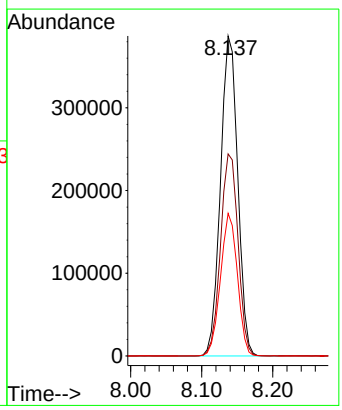


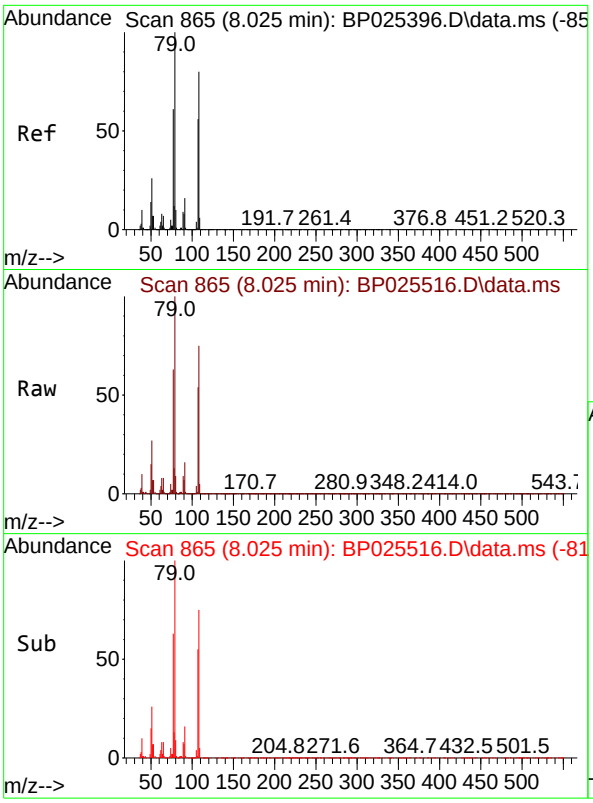


#14
1,2-Dichlorobenzene
Concen: 44.544 ng
RT: 8.137 min Scan# 884
Delta R.T. -0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:146 Resp: 650052

Ion	Ratio	Lower	Upper
146	100		
148	63.2	50.4	75.6
111	44.6	34.5	51.7

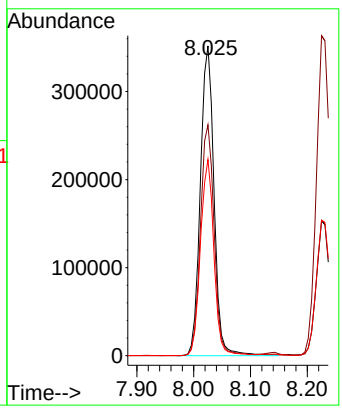




#15
Benzyl Alcohol
Concen: 48.572 ng
RT: 8.025 min Scan# 8
Delta R.T. 0.000 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion: 79 Resp: 58652

Ion	Ratio	Lower	Upper
79	100		
108	74.5	63.8	95.6
77	63.3	49.0	73.4



Instrument :
BNA_P
ClientSampleId :
22BP-WMS

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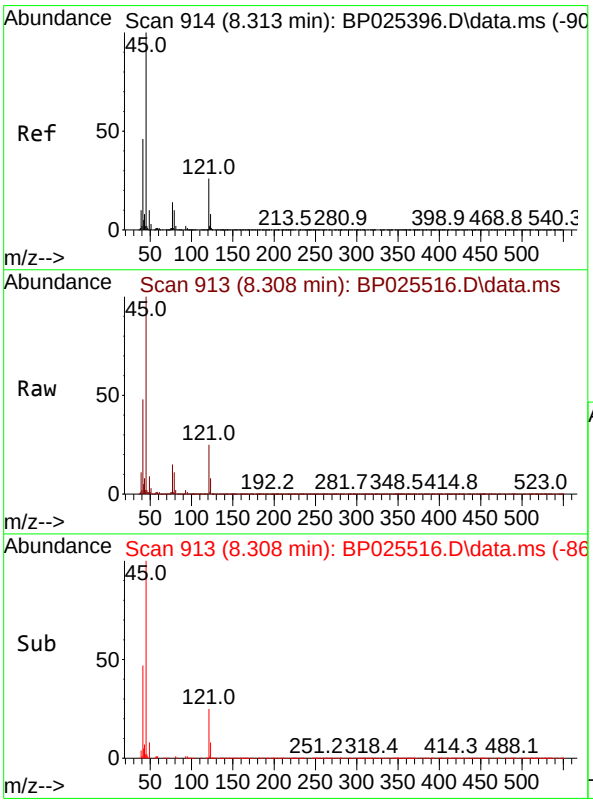
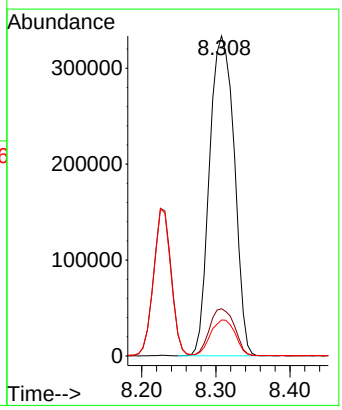
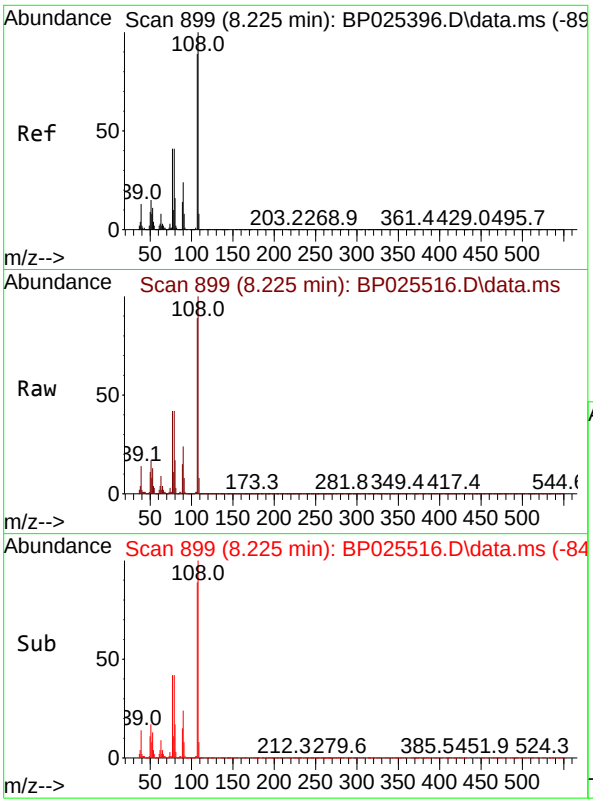


#16
2,2'-oxybis(1-Chloropropane)
Concen: 46.392 ng
RT: 8.308 min Scan# 913
Delta R.T. -0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion: 45 Resp: 772444

Ion	Ratio	Lower	Upper
45	100		
77	14.8	0.0	35.3
79	11.2	0.0	31.8

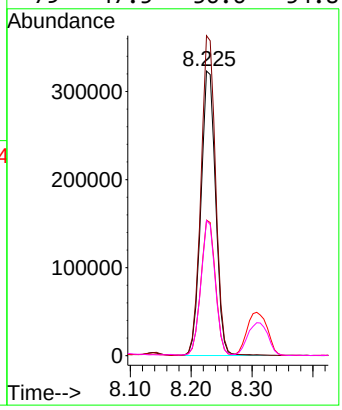




#17
2-Methylphenol
Concen: 48.875 ng
RT: 8.225 min Scan# 8
Delta R.T. 0.000 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:107 Resp: 54130

Ion	Ratio	Lower	Upper
107	100		
108	112.4	89.4	134.0
77	47.6	36.3	54.5
79	47.5	36.6	54.8



Instrument :
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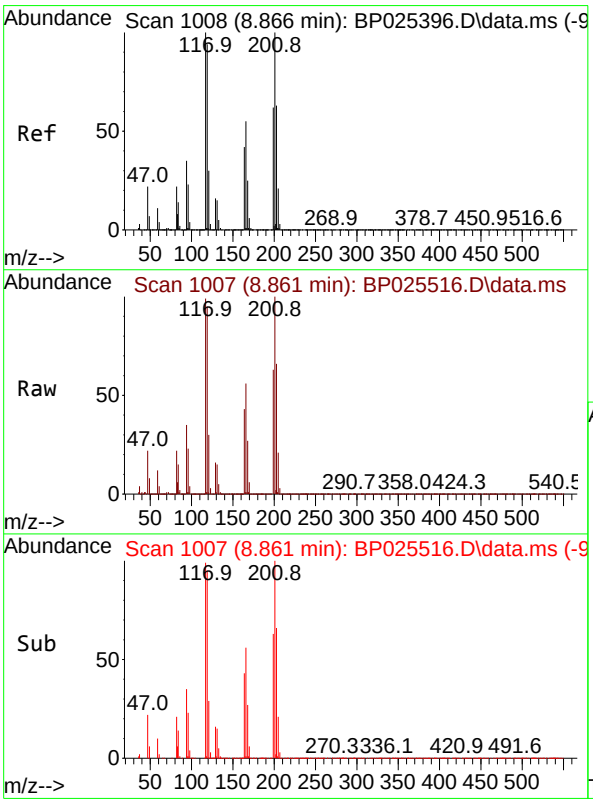
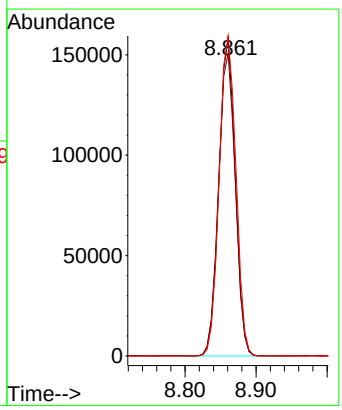
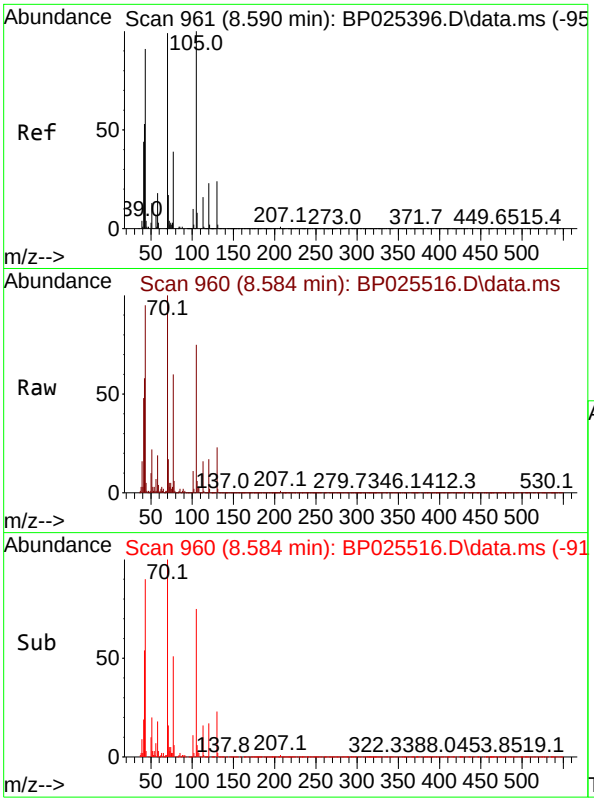


#18
Hexachloroethane
Concen: 45.754 ng
RT: 8.861 min Scan# 1007
Delta R.T. -0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:117 Resp: 253613

Ion	Ratio	Lower	Upper
117	100		
119	95.3	75.1	112.7
201	100.8	80.1	120.1

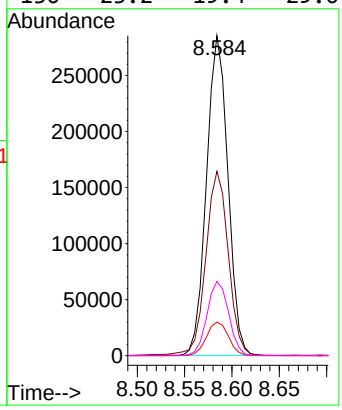




#19
n-Nitroso-di-n-propylamine
Concen: 44.440 ng
RT: 8.584 min Scan# 9(
Delta R.T. -0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion: 70 Resp: 44735(

Ion	Ratio	Lower	Upper
70	100		
42	57.6	43.8	65.6
101	10.5	8.5	12.7
130	23.2	19.4	29.0



Instrument :
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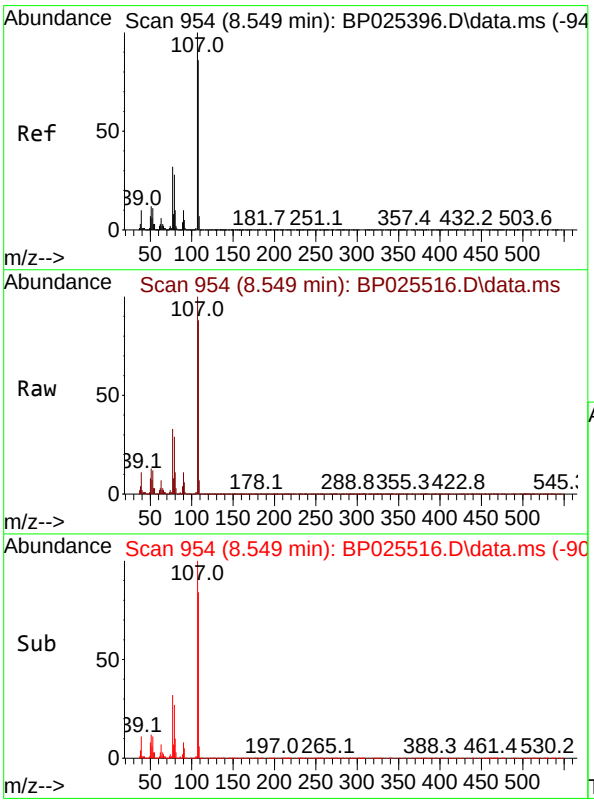
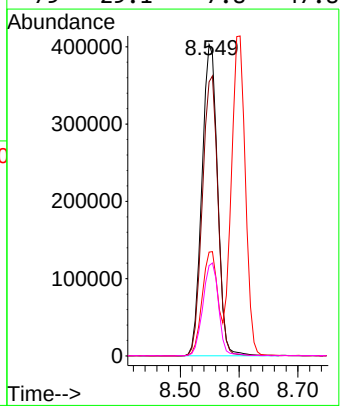
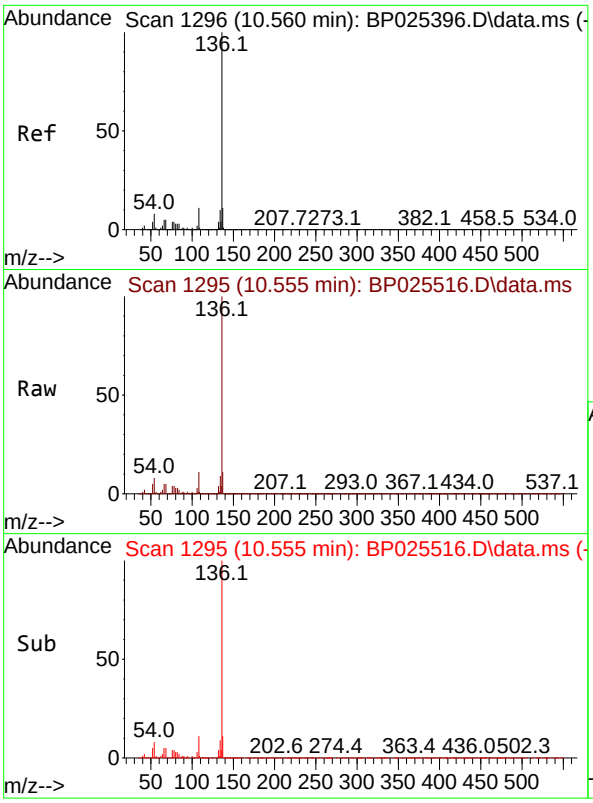


#20
3+4-Methylphenols
Concen: 48.669 ng
RT: 8.549 min Scan# 954
Delta R.T. 0.000 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:107 Resp: 747172

Ion	Ratio	Lower	Upper
107	100		
108	88.0	66.3	106.3
77	33.3	12.3	52.3
79	29.1	7.8	47.8

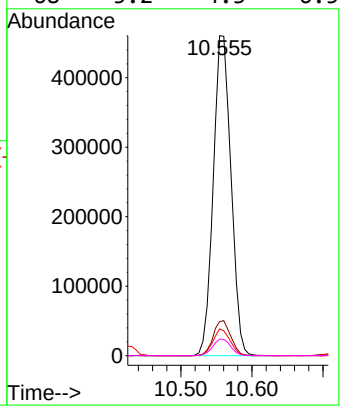




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.555 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:136 Resp: 79643

Ion	Ratio	Lower	Upper
136	100		
137	10.7	9.2	13.8
54	8.4	6.0	9.0
68	5.2	4.3	6.5



Instrument :
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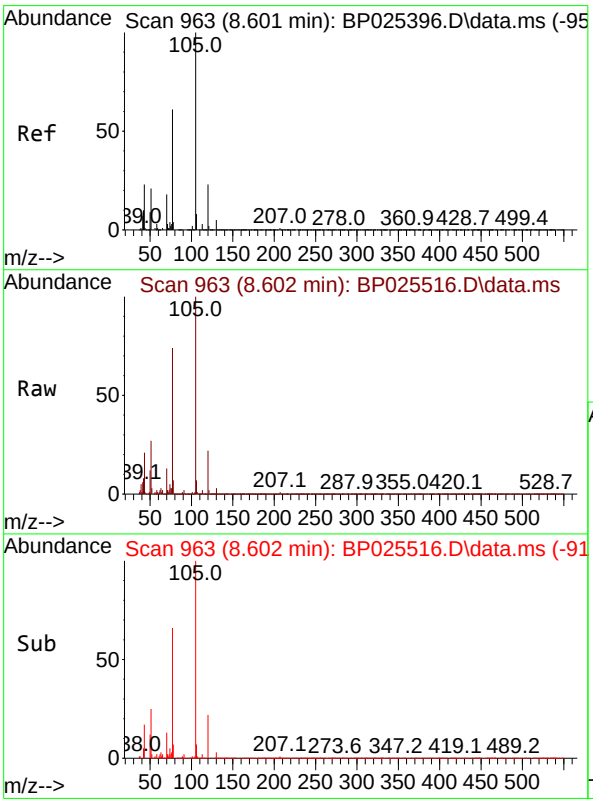
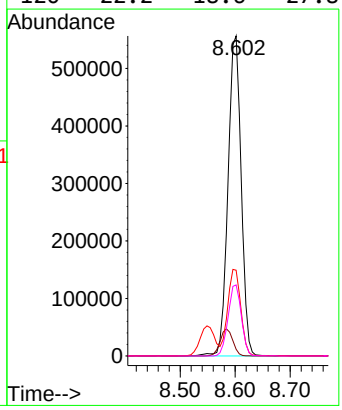
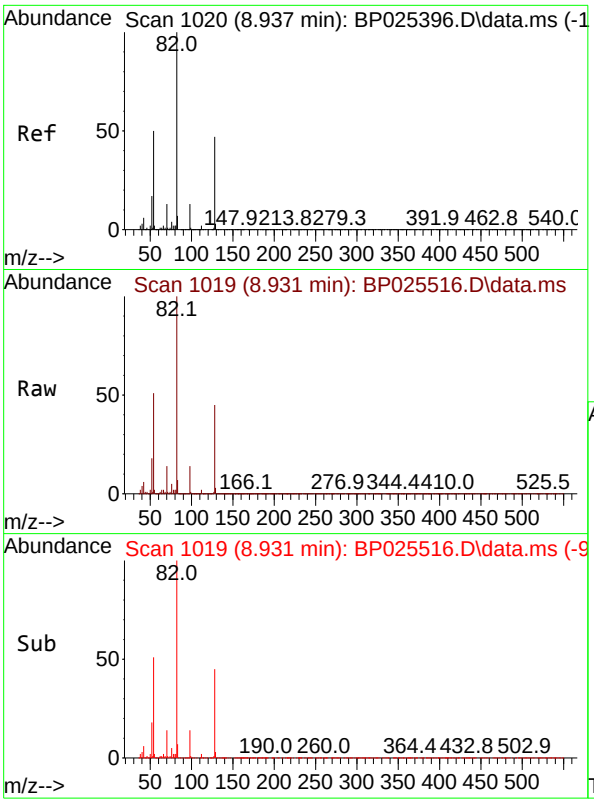


#22
Acetophenone
Concen: 46.348 ng
RT: 8.602 min Scan# 963
Delta R.T. 0.000 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:105 Resp: 925700

Ion	Ratio	Lower	Upper
105	100		
71	2.1	2.6	4.0#
51	26.8	20.6	30.8
120	22.2	18.6	27.8

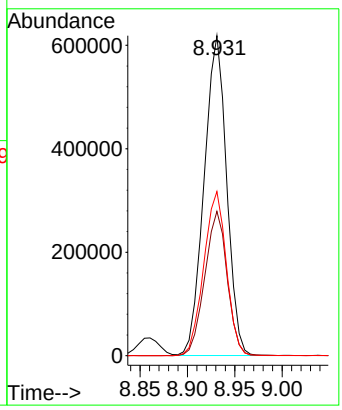




#23
Nitrobenzene-d5
Concen: 65.037 ng
RT: 8.931 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion: 82 Resp: 102395

Ion	Ratio	Lower	Upper
82	100		
128	45.1	37.7	56.5
54	51.3	39.8	59.6



Instrument :
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ClientSampleId :
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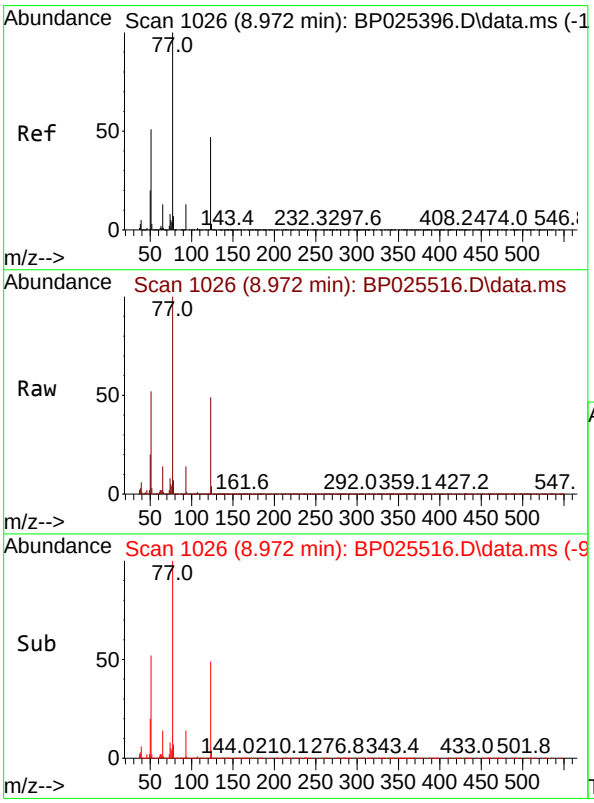
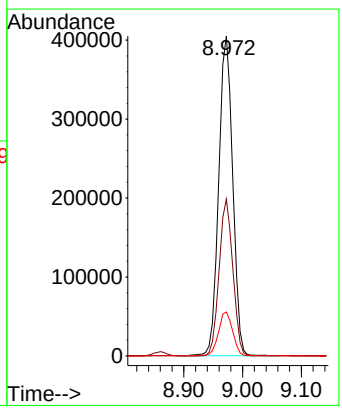
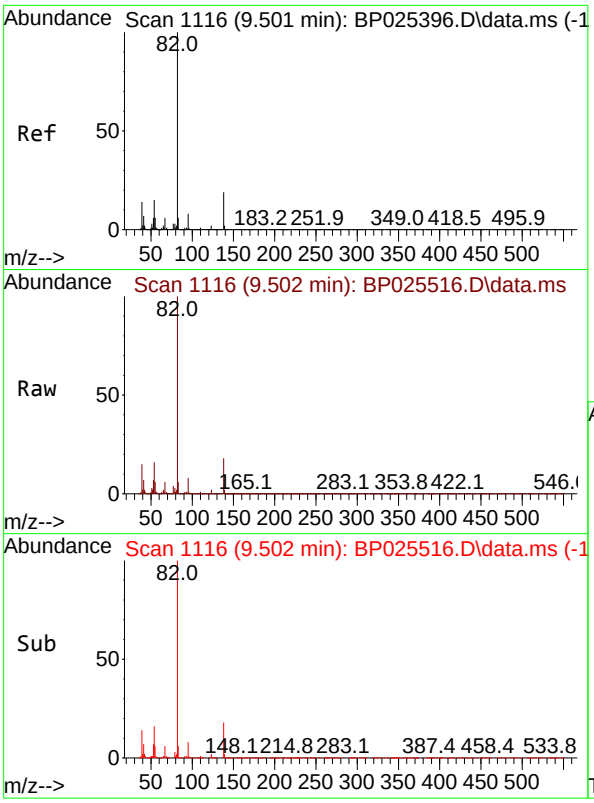


#24
Nitrobenzene
Concen: 47.583 ng
RT: 8.972 min Scan# 1026
Delta R.T. 0.000 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion: 77 Resp: 669544

Ion	Ratio	Lower	Upper
77	100		
123	49.1	38.6	58.0
65	13.8	10.6	15.8





#25
Isophorone
Concen: 46.346 ng
RT: 9.502 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion: 82 Resp: 129134

Ion	Ratio	Lower	Upper
82	100		
95	7.9	6.4	9.6
138	18.1	15.4	23.0

Instrument :
BNA_P
ClientSampleId :
22BP-WMS

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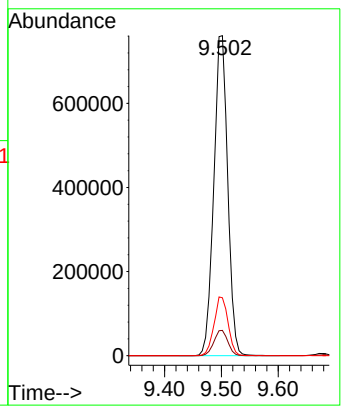
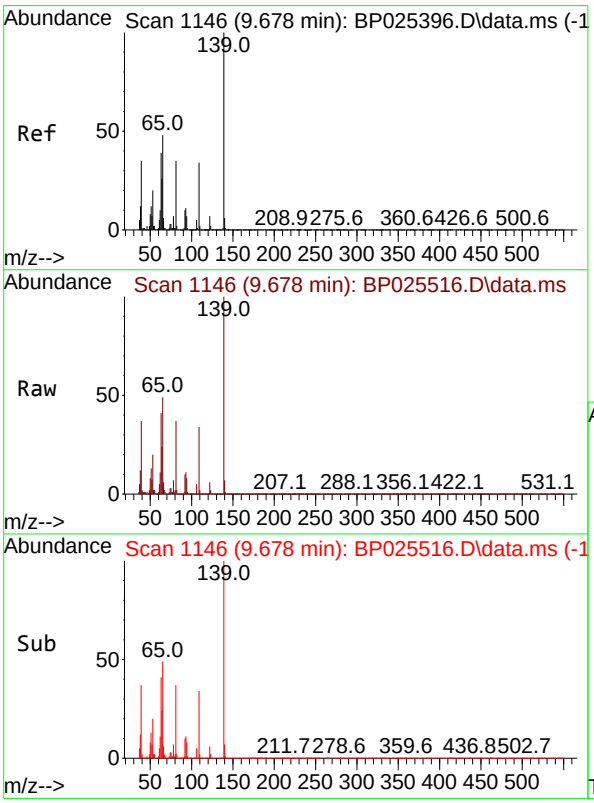
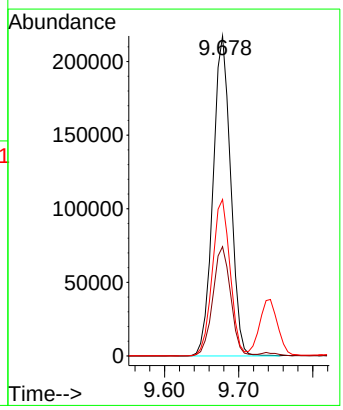


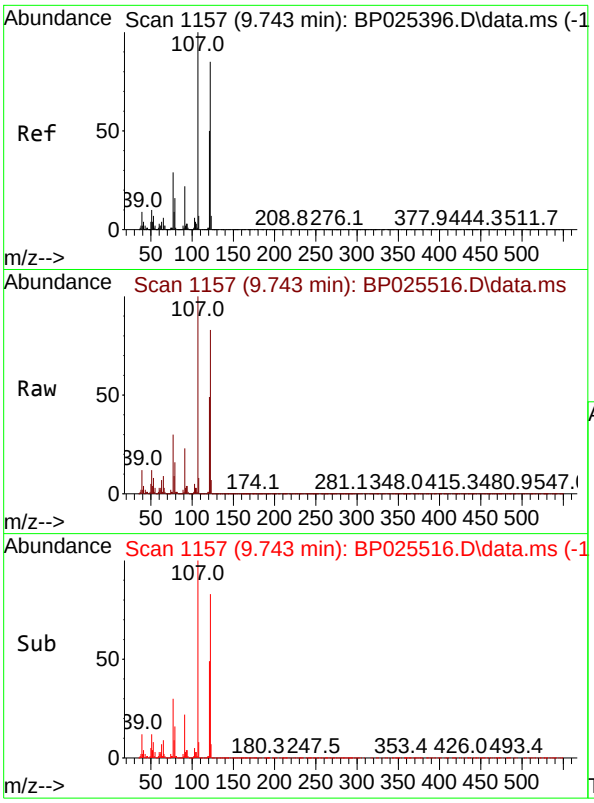


#26
2-Nitrophenol
Concen: 49.729 ng
RT: 9.678 min Scan# 1146
Delta R.T. 0.000 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:139 Resp: 359110

Ion	Ratio	Lower	Upper
139	100		
109	34.2	26.9	40.3
65	48.9	38.3	57.5

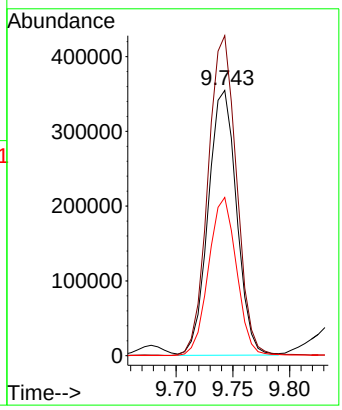




#27
2,4-Dimethylphenol
Concen: 49.605 ng
RT: 9.743 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:122 Resp: 61602

Ion	Ratio	Lower	Upper
122	100		
107	120.6	93.7	140.5
121	59.7	46.6	69.8



Instrument :
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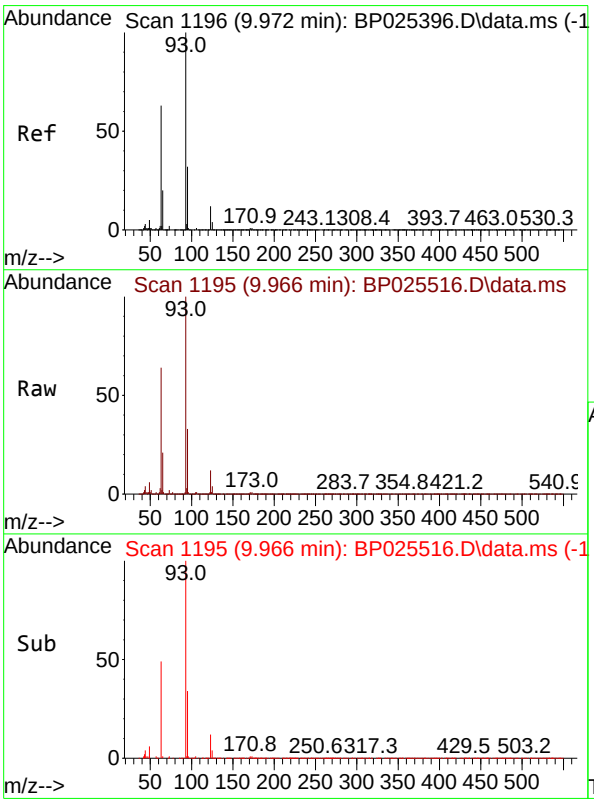
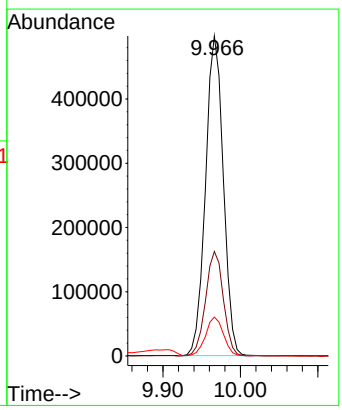
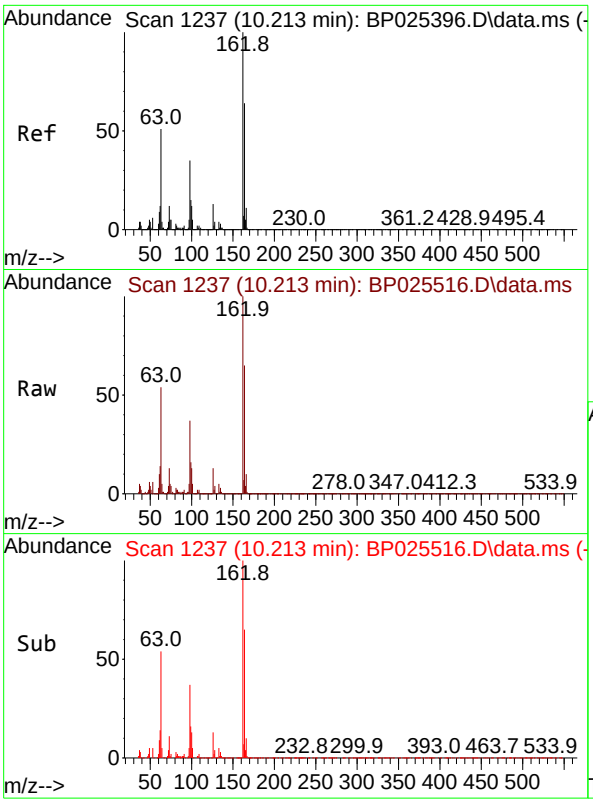


#28
bis(2-Chloroethoxy)methane
Concen: 47.040 ng
RT: 9.966 min Scan# 1195
Delta R.T. -0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion: 93 Resp: 792282

Ion	Ratio	Lower	Upper
93	100		
95	32.7	25.4	38.0
123	12.2	9.4	14.0

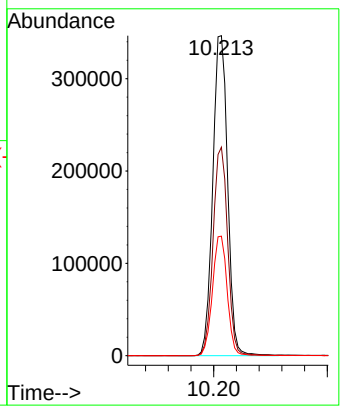




#29
2,4-Dichlorophenol
Concen: 51.032 ng
RT: 10.213 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:162 Resp: 62955

Ion	Ratio	Lower	Upper
162	100		
164	65.2	44.4	84.4
98	37.4	14.9	54.9



Instrument :
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ClientSampleId :
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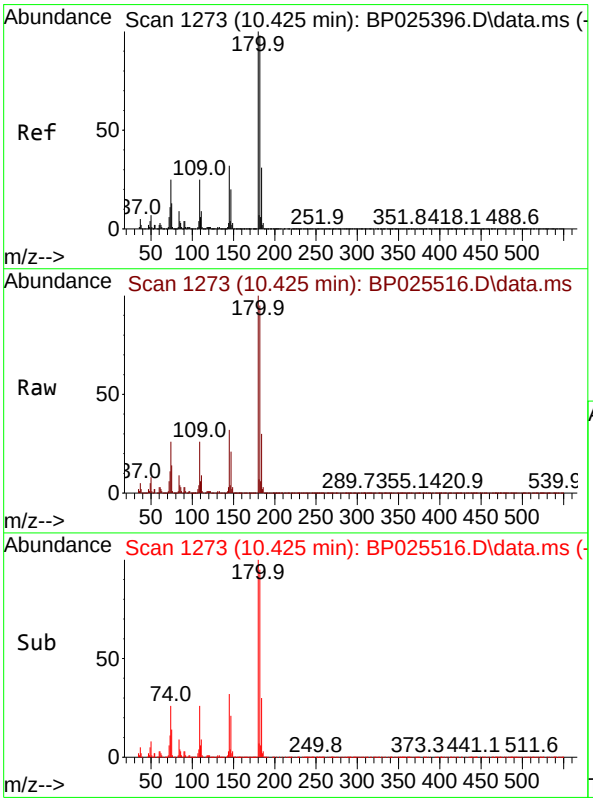
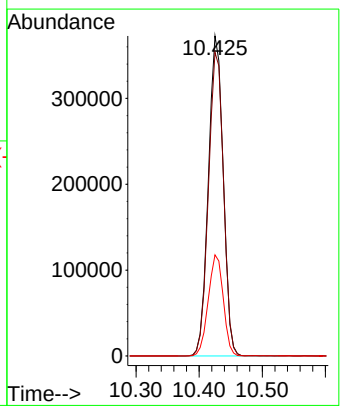
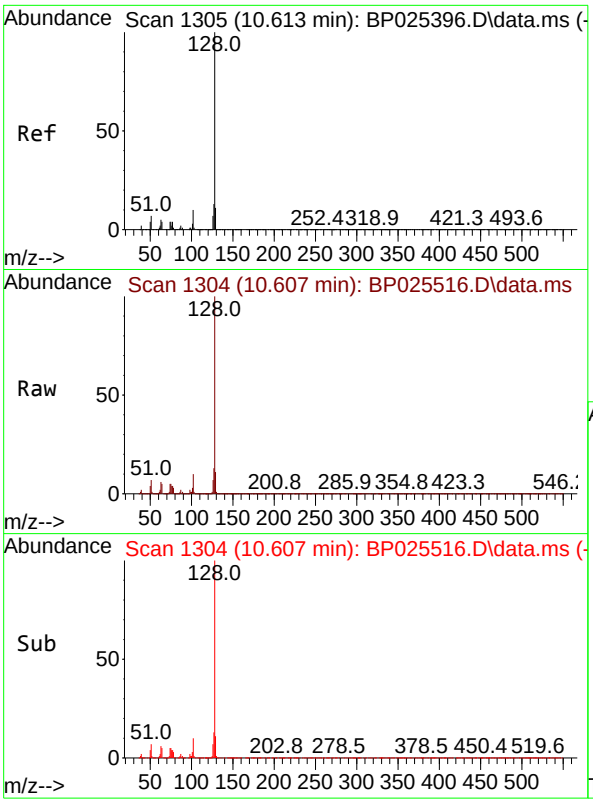


#30
1,2,4-Trichlorobenzene
Concen: 44.974 ng
RT: 10.425 min Scan# 1273
Delta R.T. 0.000 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:180 Resp: 608202

Ion	Ratio	Lower	Upper
180	100		
182	94.8	78.0	117.0
145	31.6	25.9	38.9

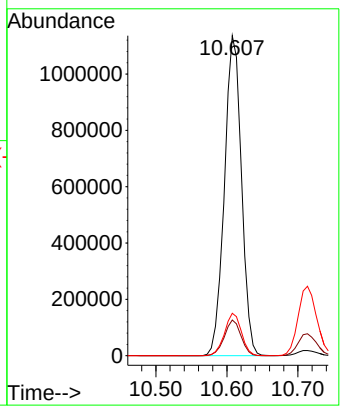




#31
Naphthalene
Concen: 45.625 ng
RT: 10.607 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:128 Resp: 188865

Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.6	13.0
127	13.3	10.7	16.1



Instrument :
BNA_P
ClientSampleId :
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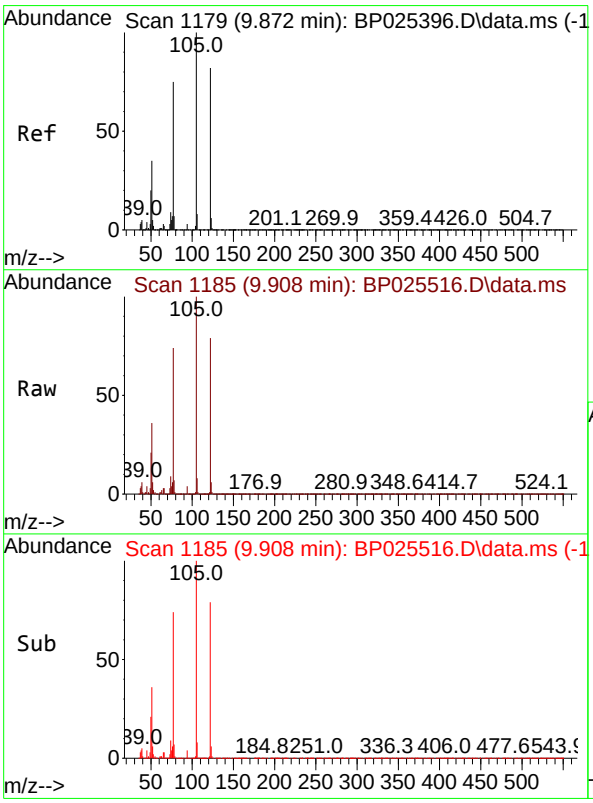
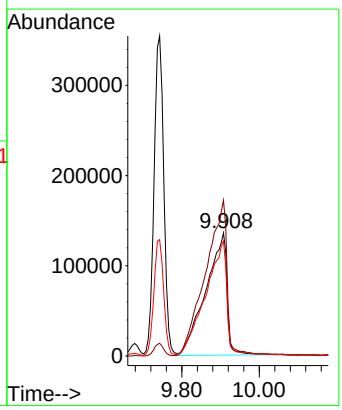
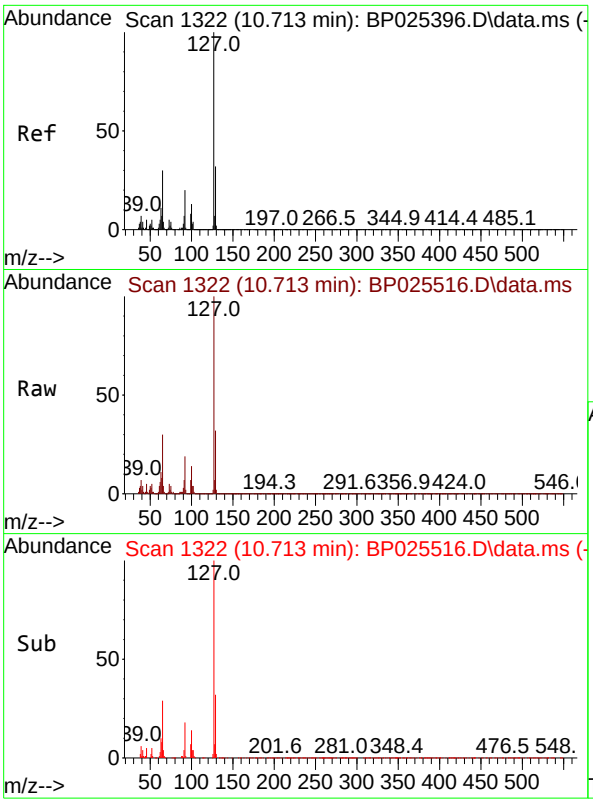


#32
Benzoic acid
Concen: 56.224 ng
RT: 9.908 min Scan# 1185
Delta R.T. 0.035 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:122 Resp: 515480

Ion	Ratio	Lower	Upper
122	100		
105	126.5	100.6	140.6
77	93.3	71.5	111.5

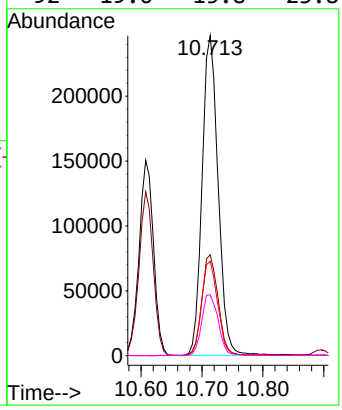




#33
4-Chloroaniline
Concen: 24.662 ng
RT: 10.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:127 Resp: 45095

Ion	Ratio	Lower	Upper
127	100		
129	31.5	25.4	38.2
65	29.5	23.8	35.6
92	19.0	15.8	23.8



Instrument :
BNA_P
ClientSampleId :
22BP-WMS

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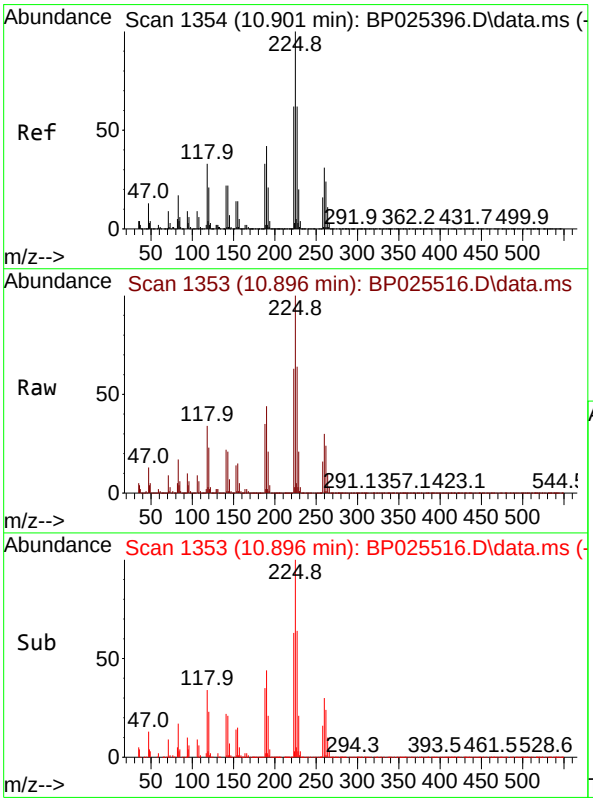
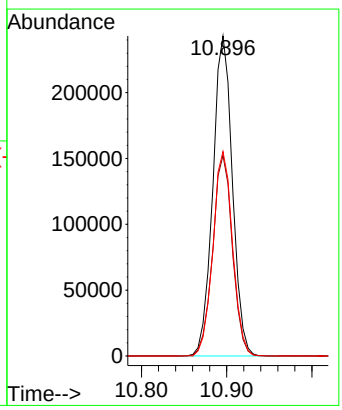
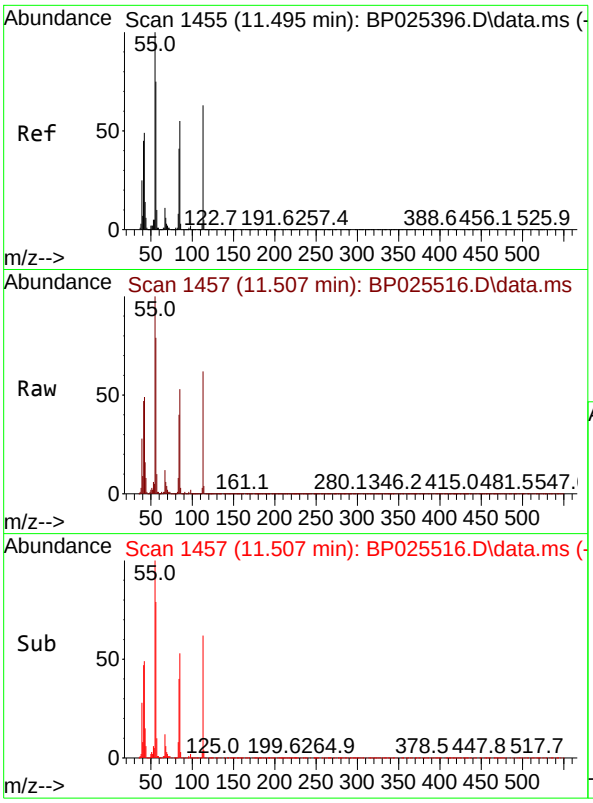


#34
Hexachlorobutadiene
Concen: 46.148 ng
RT: 10.896 min Scan# 1353
Delta R.T. -0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:225 Resp: 388664

Ion	Ratio	Lower	Upper
225	100		
223	62.6	50.0	75.0
227	63.9	49.7	74.5

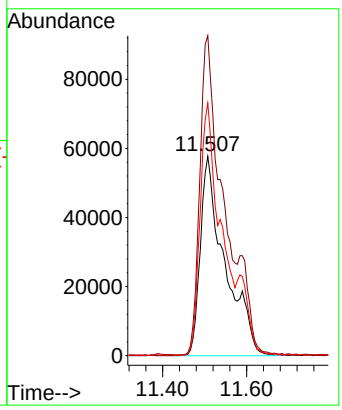




#35
Caprolactam
Concen: 51.624 ng m
RT: 11.507 min Scan# 14
Delta R.T. 0.012 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:113 Resp: 23352

Ion	Ratio	Lower	Upper
113	100		
55	160.5	140.0	180.0
56	126.7	100.0	140.0



Instrument :
BNA_P
ClientSampleId :
22BP-WMS

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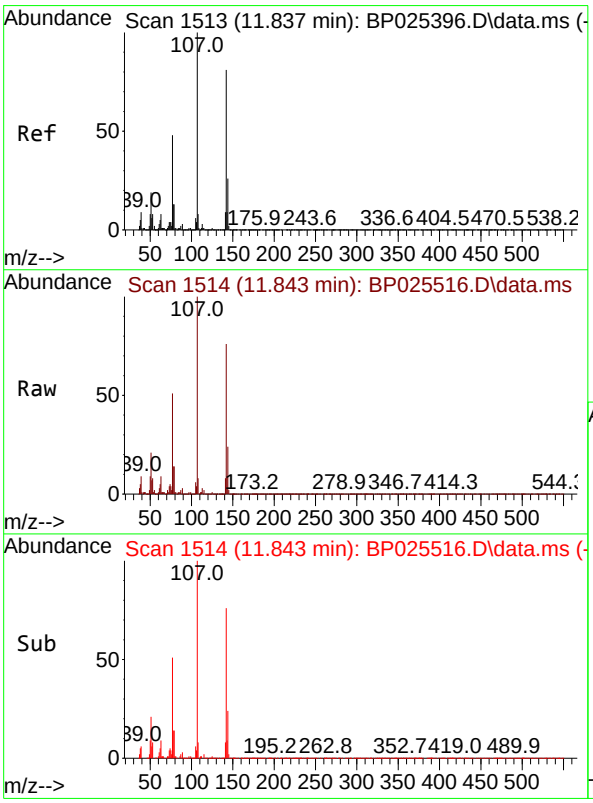
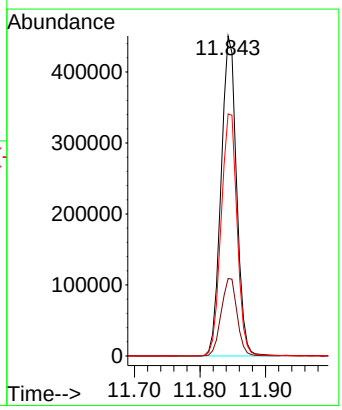
Reviewed By :Rahul Chavli 08/21/2025
Supervised By :Jagrut Upadhyay 08/21/2025

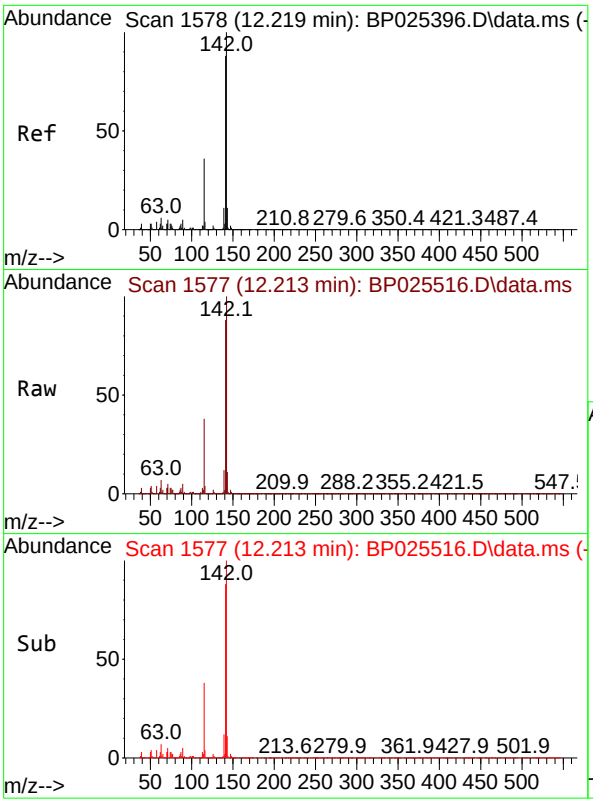


#36
4-Chloro-3-methylphenol
Concen: 51.912 ng
RT: 11.843 min Scan# 1514
Delta R.T. 0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:107 Resp: 734853

Ion	Ratio	Lower	Upper
107	100		
144	24.2	21.0	31.4
142	75.7	64.6	97.0

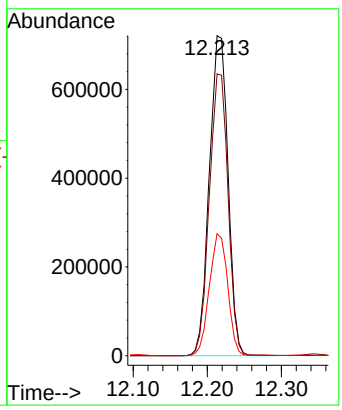




#37
2-Methylnaphthalene
Concen: 46.913 ng
RT: 12.213 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:142 Resp: 126378

Ion	Ratio	Lower	Upper
142	100		
141	88.1	70.3	105.5
115	38.1	28.9	43.3



Instrument :
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ClientSampleId :
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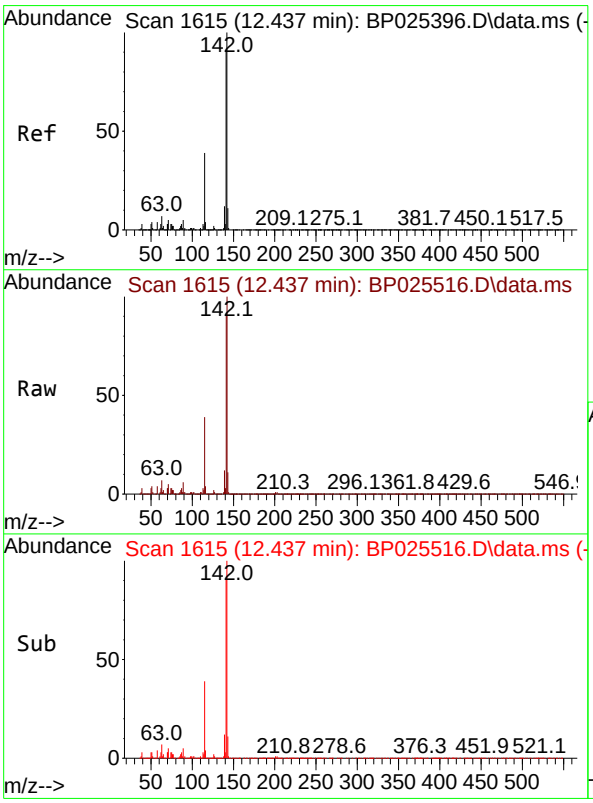
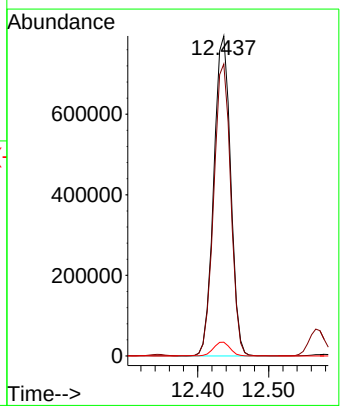
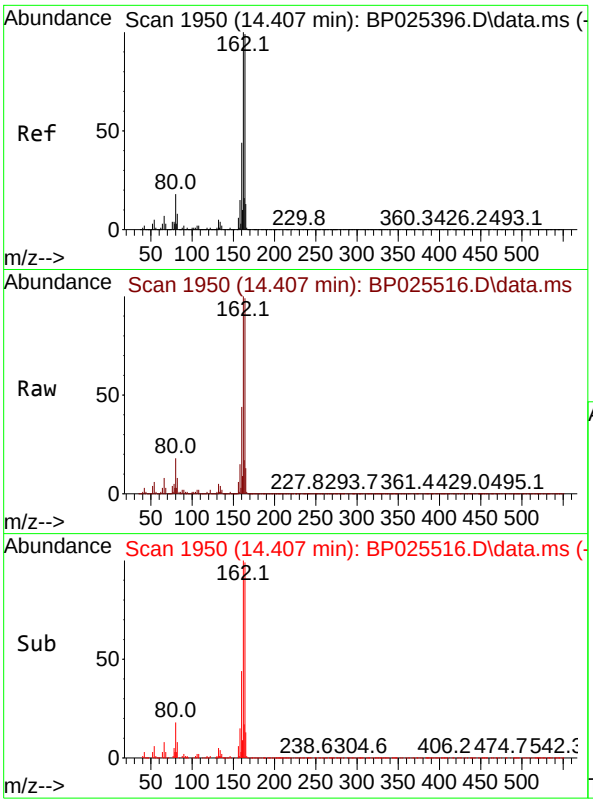


#38
1-Methylnaphthalene
Concen: 45.474 ng
RT: 12.437 min Scan# 1615
Delta R.T. 0.000 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:142 Resp: 1302740

Ion	Ratio	Lower	Upper
142	100		
141	91.3	73.1	109.7
116	4.3	3.2	4.8

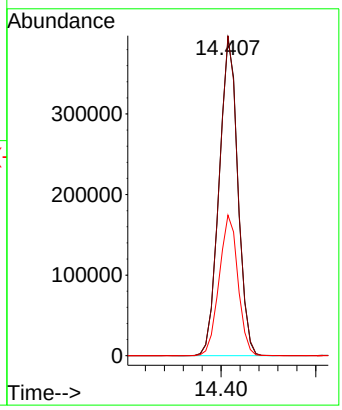




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.407 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:164 Resp: 54239

Ion	Ratio	Lower	Upper
164	100		
162	100.9	81.0	121.6
160	44.3	35.4	53.2



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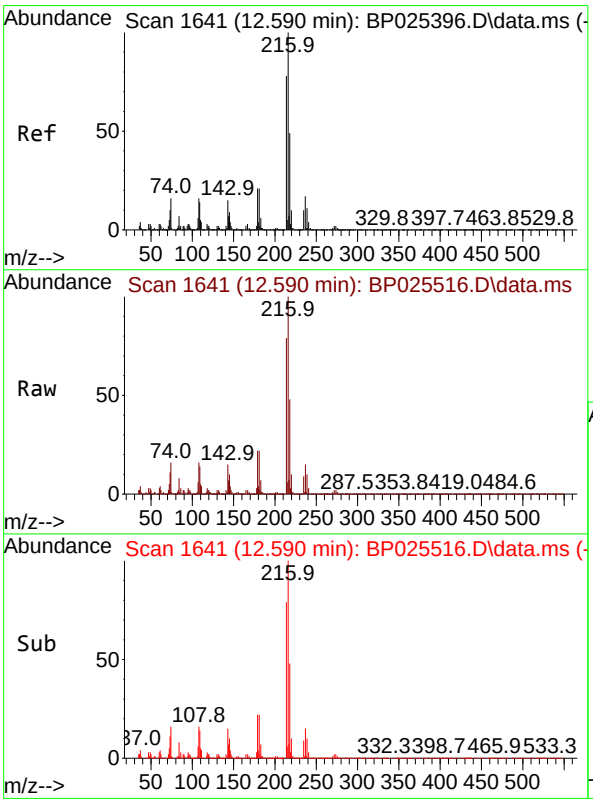
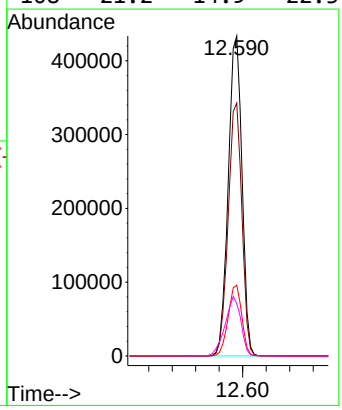
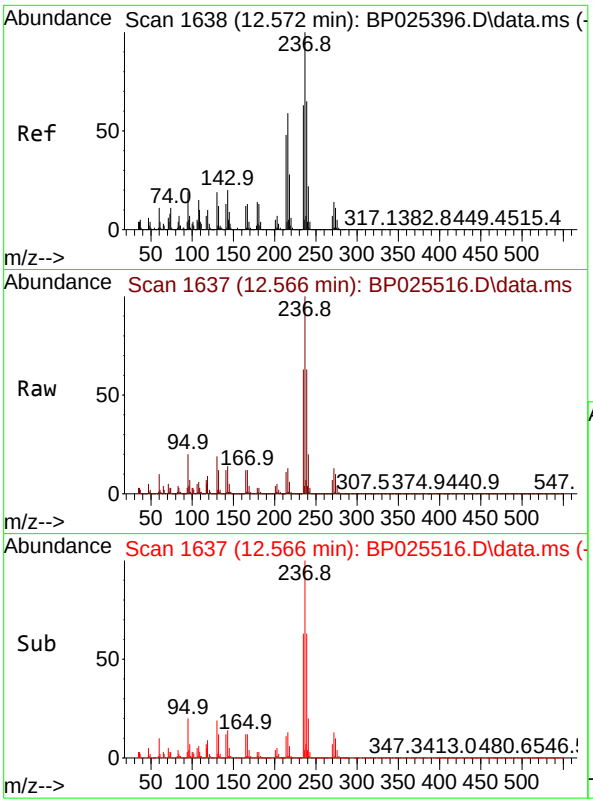


#40
1,2,4,5-Tetrachlorobenzene
Concen: 44.877 ng
RT: 12.590 min Scan# 1641
Delta R.T. 0.000 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:216 Resp: 702998

Ion	Ratio	Lower	Upper
216	100		
214	79.0	63.0	94.4
179	21.9	17.1	25.7
108	21.2	14.9	22.3

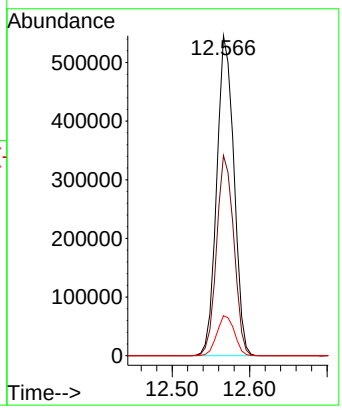




#41
Hexachlorocyclopentadiene
Concen: 89.262 ng
RT: 12.566 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:237 Resp: 84461

Ion	Ratio	Lower	Upper
237	100		
235	62.5	42.7	82.7
272	12.5	0.0	34.0



Instrument :
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ClientSampleId :
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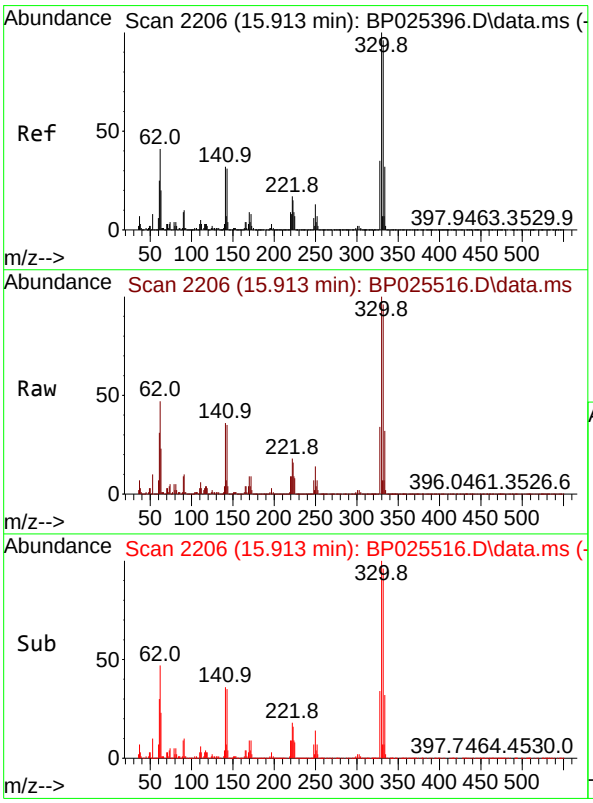
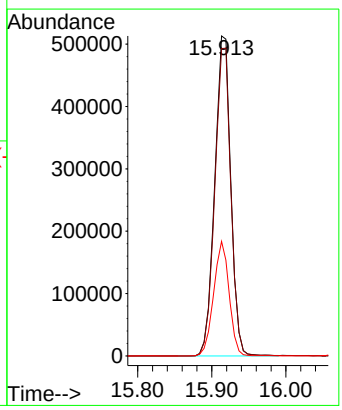
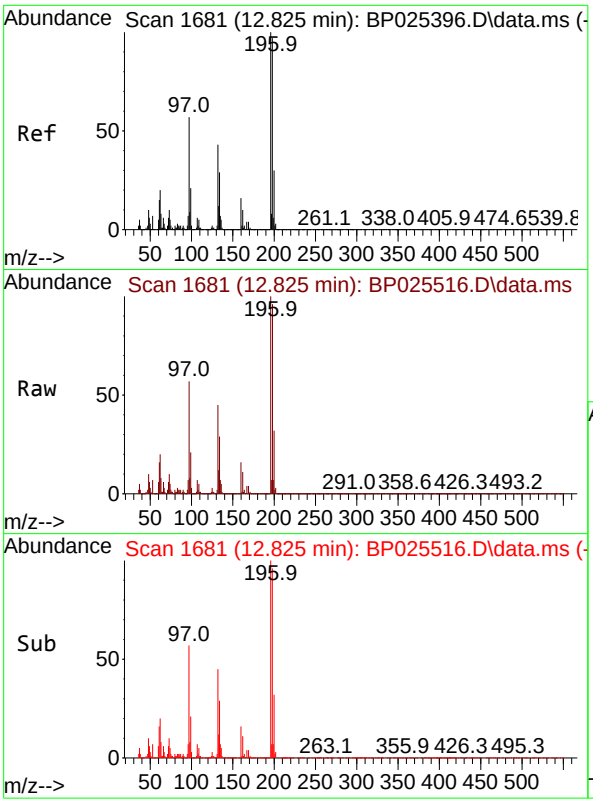


#42
2,4,6-Tribromophenol
Concen: 105.692 ng
RT: 15.913 min Scan# 2206
Delta R.T. 0.000 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:330 Resp: 771618

Ion	Ratio	Lower	Upper
330	100		
332	96.8	77.3	115.9
141	34.6	26.6	39.8

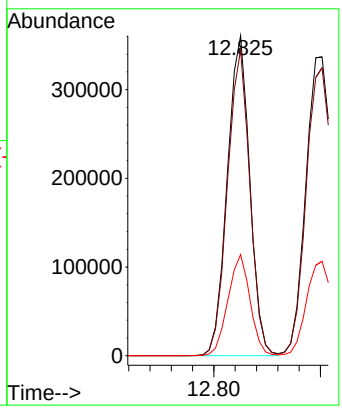




#43
2,4,6-Trichlorophenol
Concen: 50.034 ng
RT: 12.825 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:196 Resp: 52913

Ion	Ratio	Lower	Upper
196	100		
198	95.5	77.2	115.8
200	31.6	23.9	35.9



Instrument :
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ClientSampleId :
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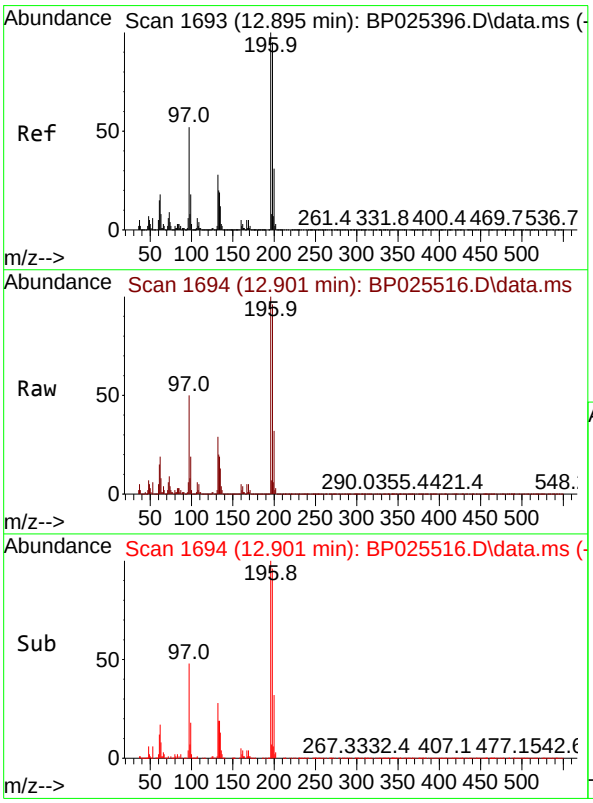
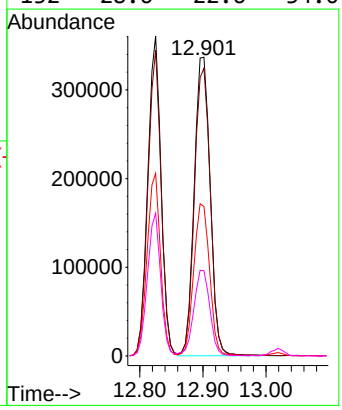
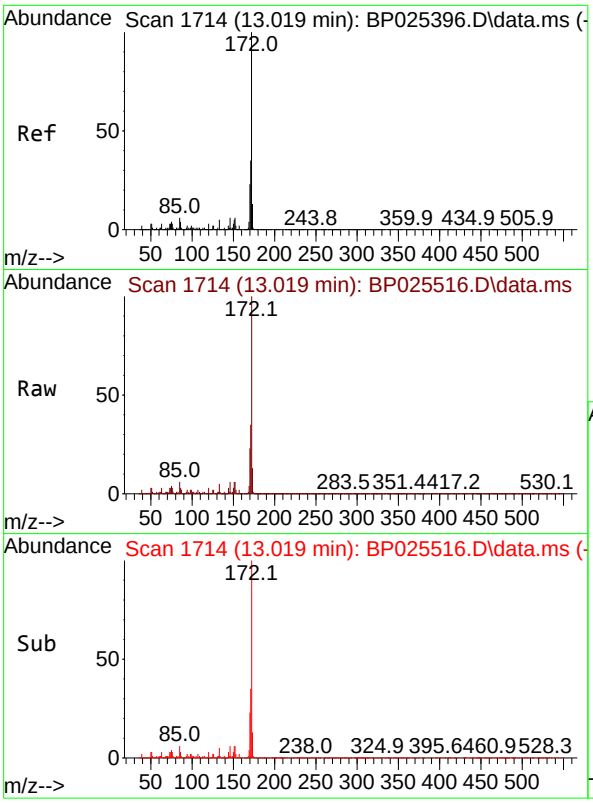


#44
2,4,5-Trichlorophenol
Concen: 51.115 ng
RT: 12.901 min Scan# 1694
Delta R.T. 0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:196 Resp: 592451

Ion	Ratio	Lower	Upper
196	100		
198	96.4	76.2	114.2
97	50.0	41.2	61.8
132	28.6	22.6	34.0

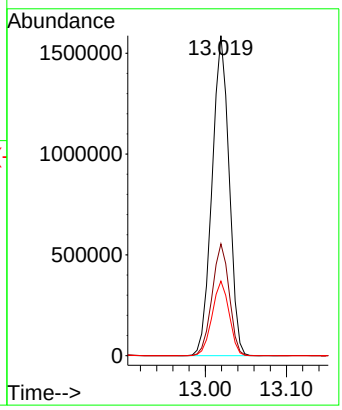




#45
2-Fluorobiphenyl
Concen: 58.451 ng
RT: 13.019 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:172 Resp: 231971

Ion	Ratio	Lower	Upper
172	100		
171	35.0	28.1	42.1
170	23.3	18.6	28.0



Instrument :
BNA_P
ClientSampleId :
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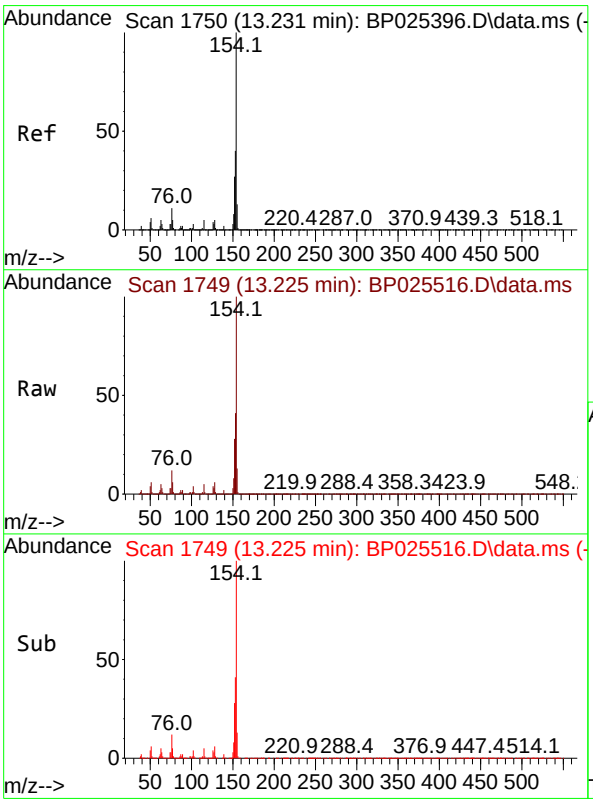
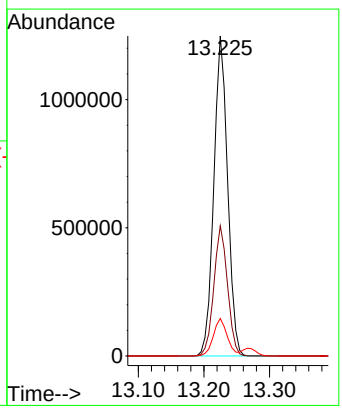
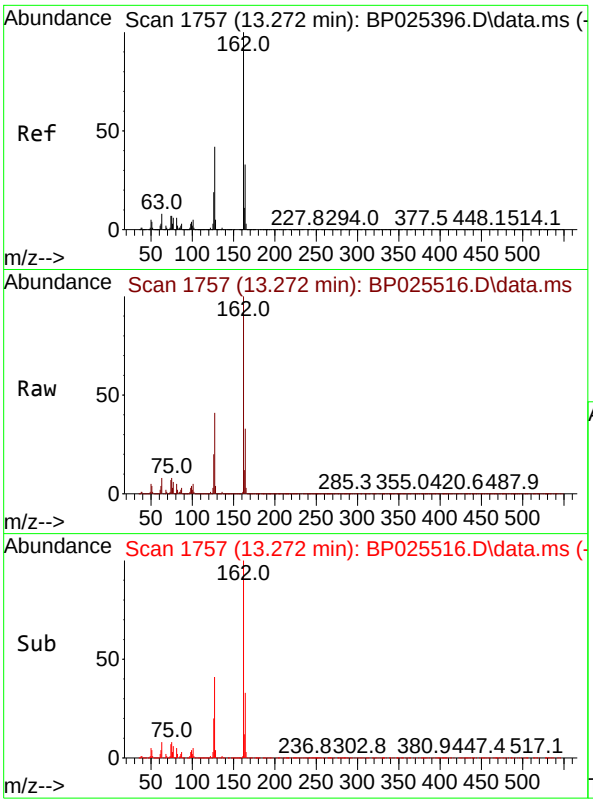


#46
1,1'-Biphenyl
Concen: 46.123 ng
RT: 13.225 min Scan# 1749
Delta R.T. -0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:154 Resp: 1816843

Ion	Ratio	Lower	Upper
154	100		
153	40.7	19.5	59.5
76	11.7	0.0	31.1

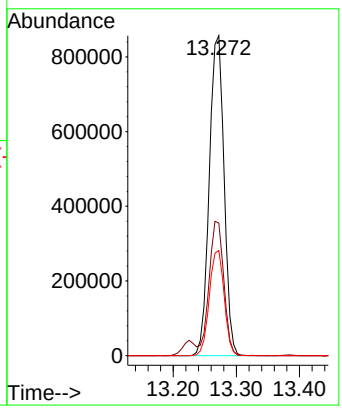




#47
2-Chloronaphthalene
Concen: 45.407 ng
RT: 13.272 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:162 Resp: 139244

Ion	Ratio	Lower	Upper
162	100		
127	41.5	33.4	50.2
164	32.8	26.2	39.2



Instrument :
BNA_P
ClientSampleId :
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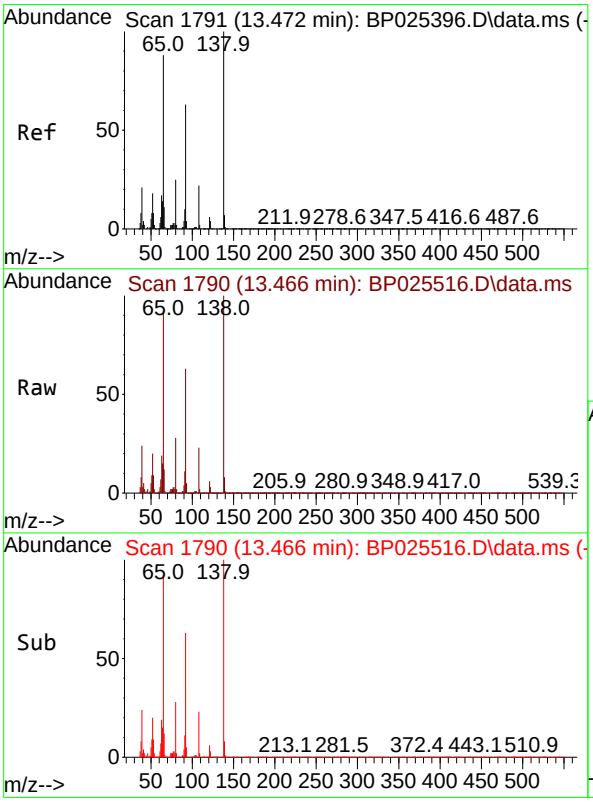
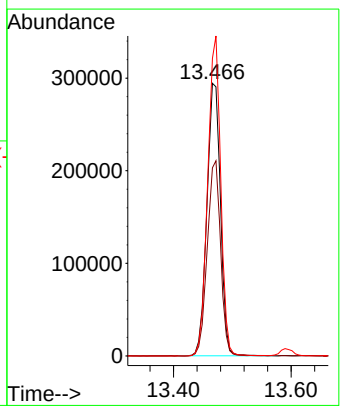
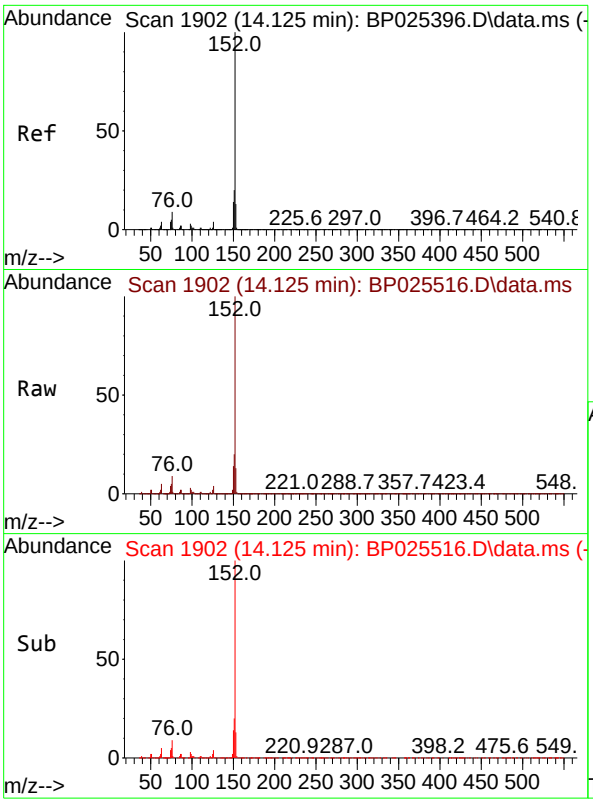


#48
2-Nitroaniline
Concen: 52.709 ng
RT: 13.466 min Scan# 1790
Delta R.T. -0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion: 65 Resp: 470973

Ion	Ratio	Lower	Upper
65	100		
92	69.0	57.6	86.4
138	109.2	91.0	136.6

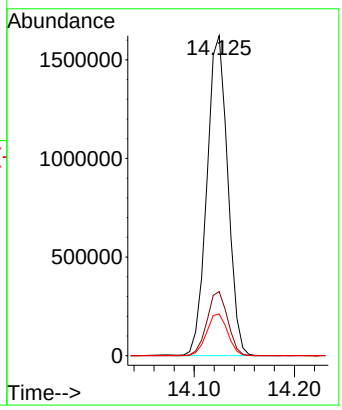




#49
Acenaphthylene
Concen: 46.035 ng
RT: 14.125 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:152 Resp: 233596

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.0	24.0
153	13.1	10.6	15.8



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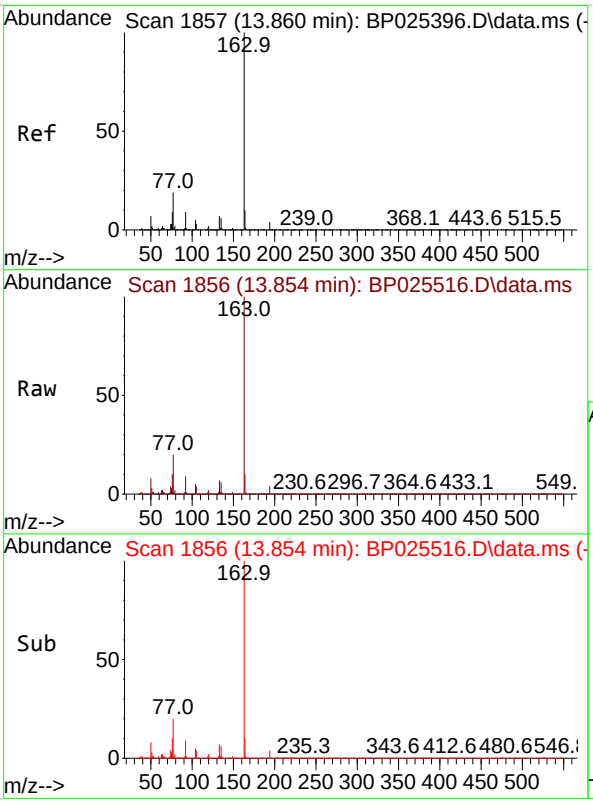
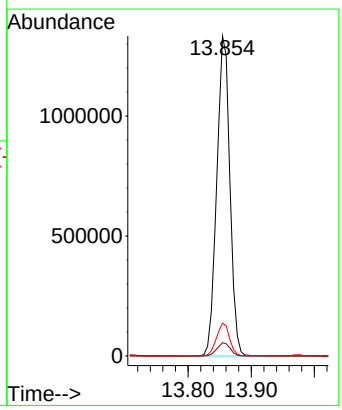
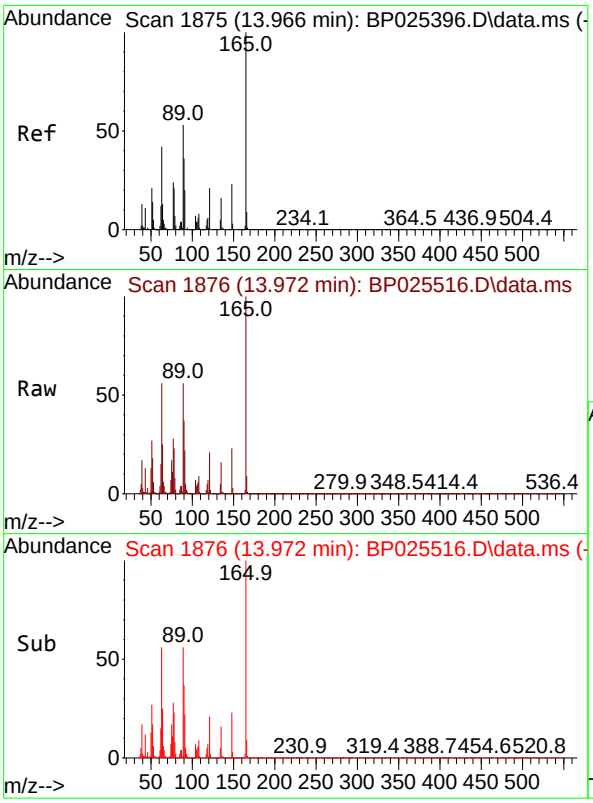


#50
Dimethylphthalate
Concen: 48.428 ng
RT: 13.854 min Scan# 1856
Delta R.T. -0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:163 Resp: 1923497

Ion	Ratio	Lower	Upper
163	100		
194	4.1	3.4	5.0
164	10.2	7.9	11.9





#51
2,6-Dinitrotoluene
Concen: 50.571 ng
RT: 13.972 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:165 Resp: 42335

Ion	Ratio	Lower	Upper
165	100		
63	55.7	40.9	61.3
89	56.3	42.1	63.1

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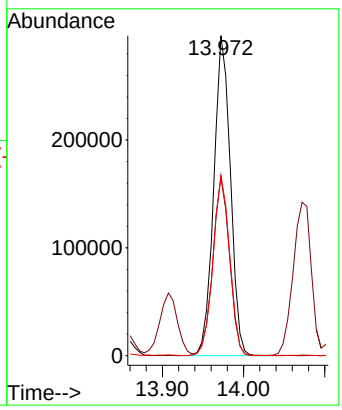
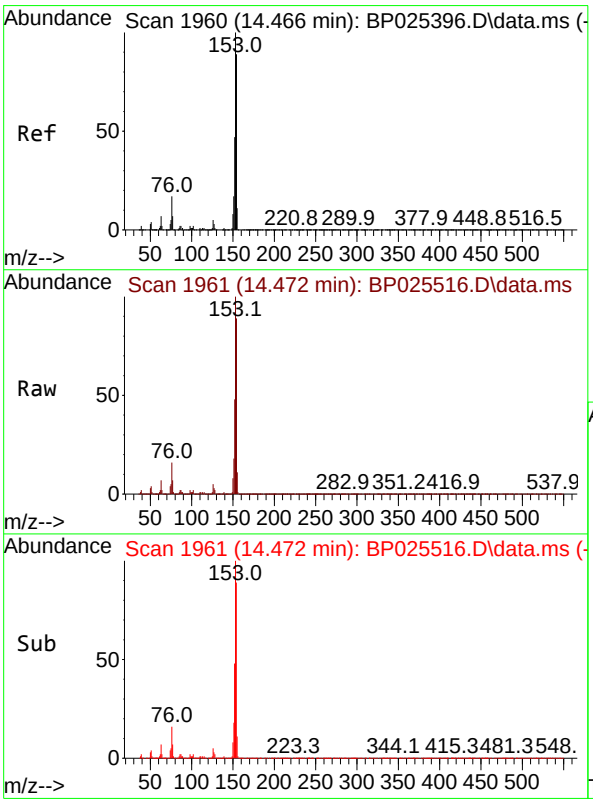
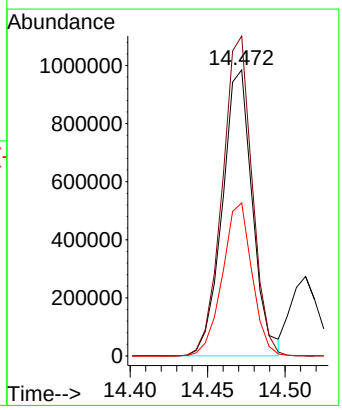


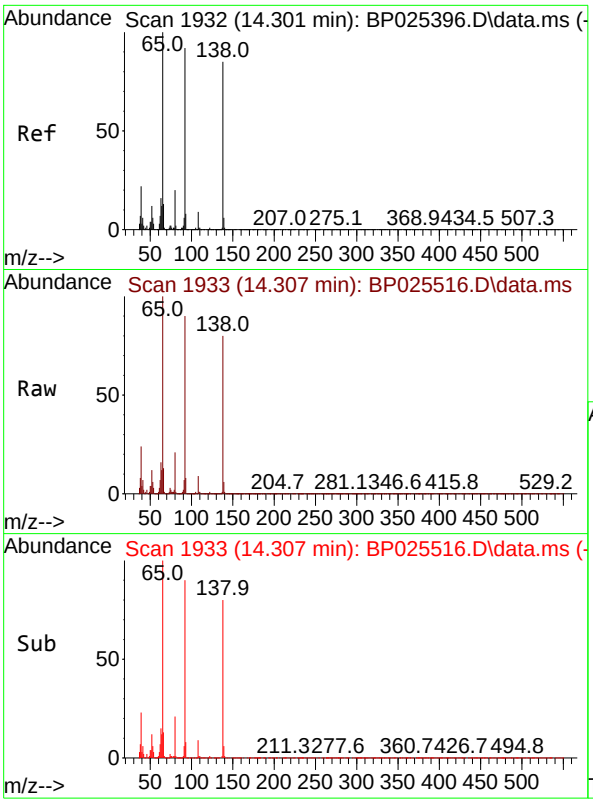


#52
Acenaphthene
Concen: 44.762 ng
RT: 14.472 min Scan# 1961
Delta R.T. 0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:154 Resp: 1333260

Ion	Ratio	Lower	Upper
154	100		
153	111.9	90.2	135.2
152	53.6	42.1	63.1

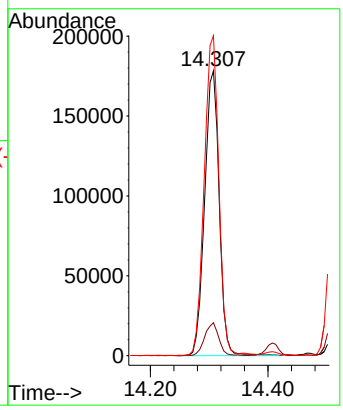




#53
3-Nitroaniline
Concen: 32.515 ng
RT: 14.307 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:138 Resp: 30625

Ion	Ratio	Lower	Upper
138	100		
108	11.6	8.3	12.5
92	112.4	86.2	129.2



Instrument :
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ClientSampleId :
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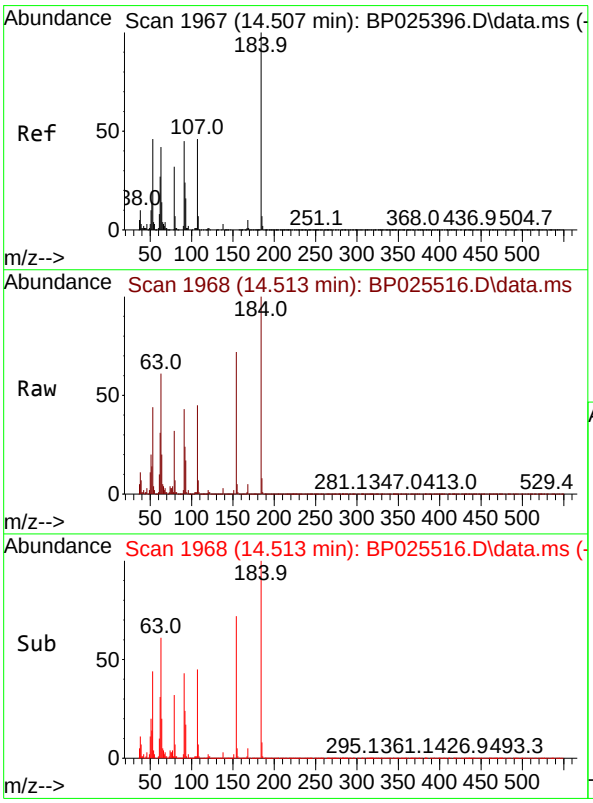
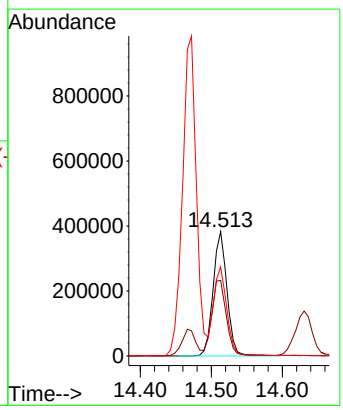
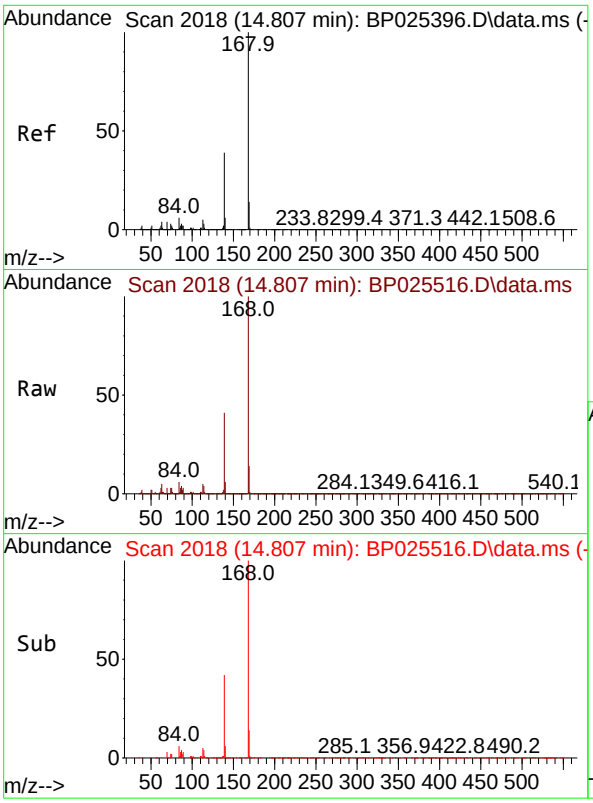


#54
2,4-Dinitrophenol
Concen: 115.933 ng
RT: 14.513 min Scan# 1968
Delta R.T. 0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:184 Resp: 518294

Ion	Ratio	Lower	Upper
184	100		
63	60.8	49.4	74.2
154	71.5	54.6	82.0

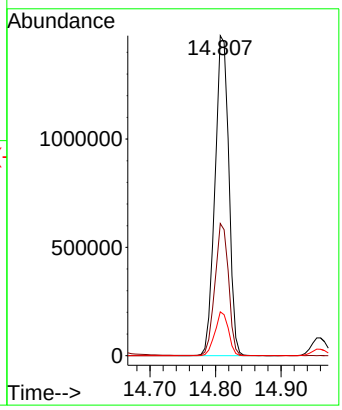




#55
Dibenzofuran
Concen: 45.760 ng
RT: 14.807 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:168 Resp: 215490

Ion	Ratio	Lower	Upper
168	100		
139	41.3	31.5	47.3
169	13.7	10.9	16.3



Instrument :
BNA_P
ClientSampleId :
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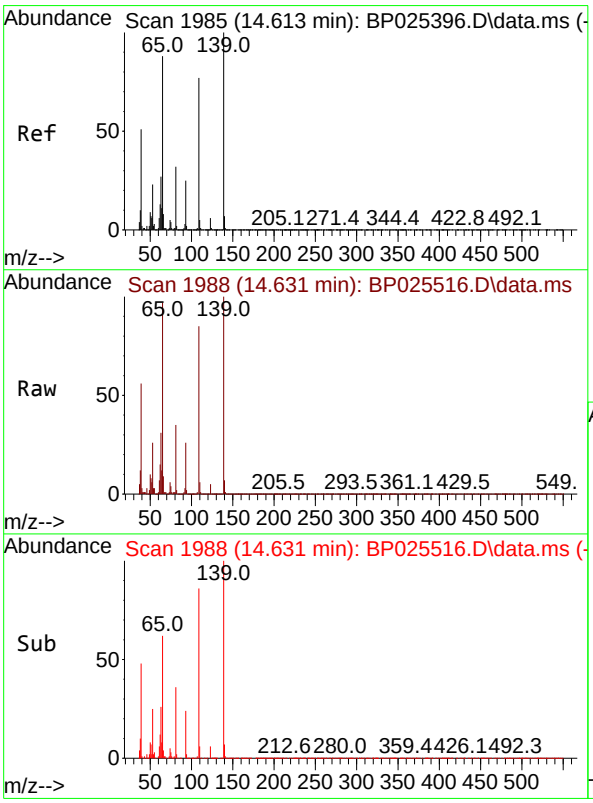
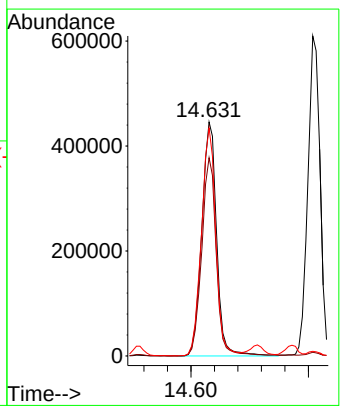
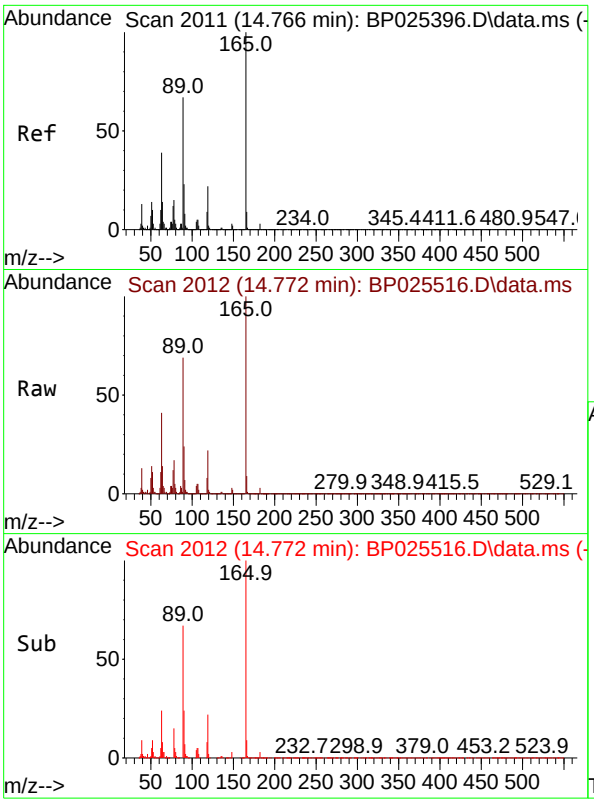


#56
4-Nitrophenol
Concen: 100.749 ng
RT: 14.631 min Scan# 1988
Delta R.T. 0.018 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:139 Resp: 779771

Ion	Ratio	Lower	Upper
139	100		
109	84.8	56.6	96.6
65	97.4	68.2	108.2

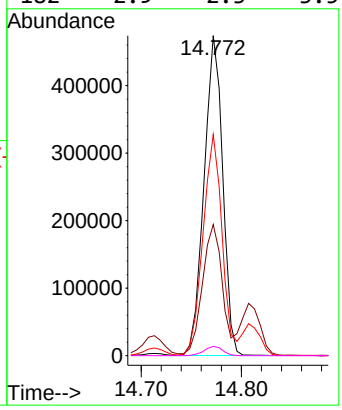




#57
2,4-Dinitrotoluene
Concen: 51.453 ng
RT: 14.772 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:165 Resp: 61456

Ion	Ratio	Lower	Upper
165	100		
63	41.0	31.4	47.2
89	69.1	53.3	79.9
182	2.9	2.3	3.5



Instrument :
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ClientSampleId :
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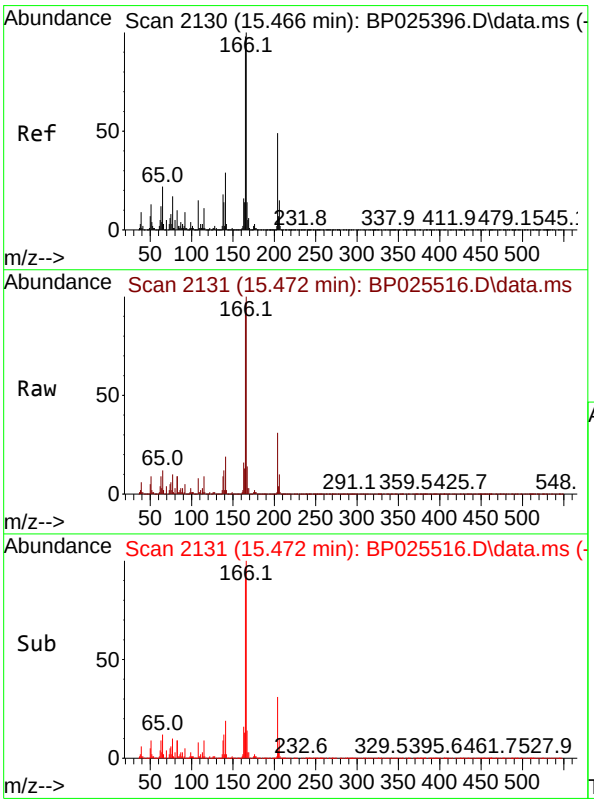
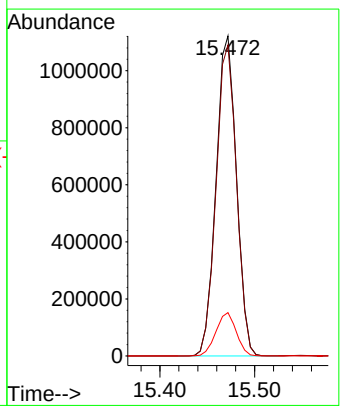
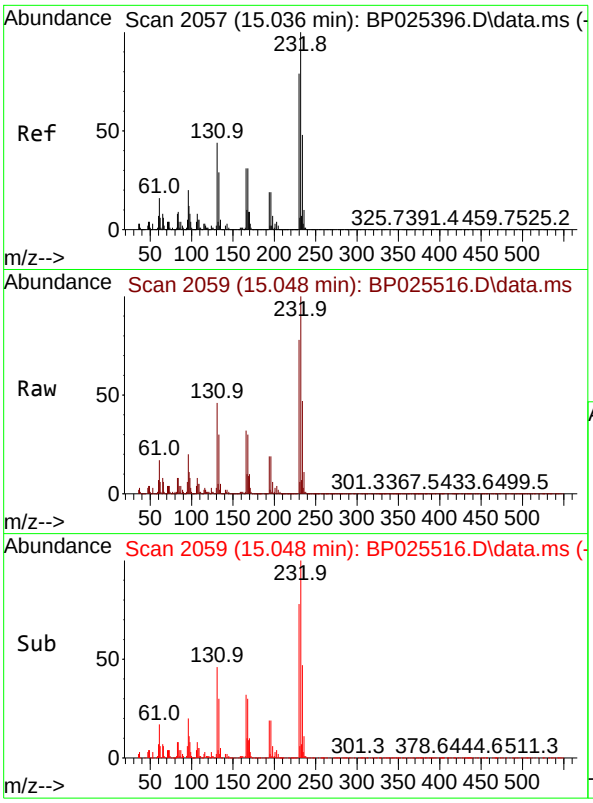


#58
Fluorene
Concen: 45.238 ng
RT: 15.472 min Scan# 2131
Delta R.T. 0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:166 Resp: 1680951

Ion	Ratio	Lower	Upper
166	100		
165	97.2	78.8	118.2
167	13.6	11.0	16.4

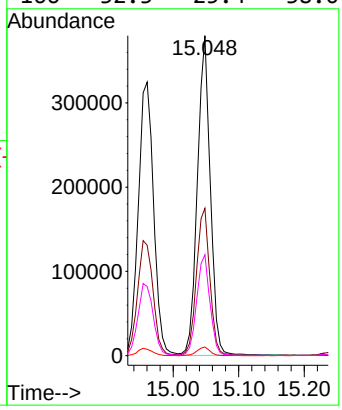




#59
2,3,4,6-Tetrachlorophenol
Concen: 50.862 ng
RT: 15.048 min Scan# 2
Delta R.T. 0.012 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:232 Resp: 52053

Ion	Ratio	Lower	Upper
232	100		
131	47.7	37.0	55.6
130	2.6	1.9	2.9
166	32.3	25.4	38.0



Instrument :
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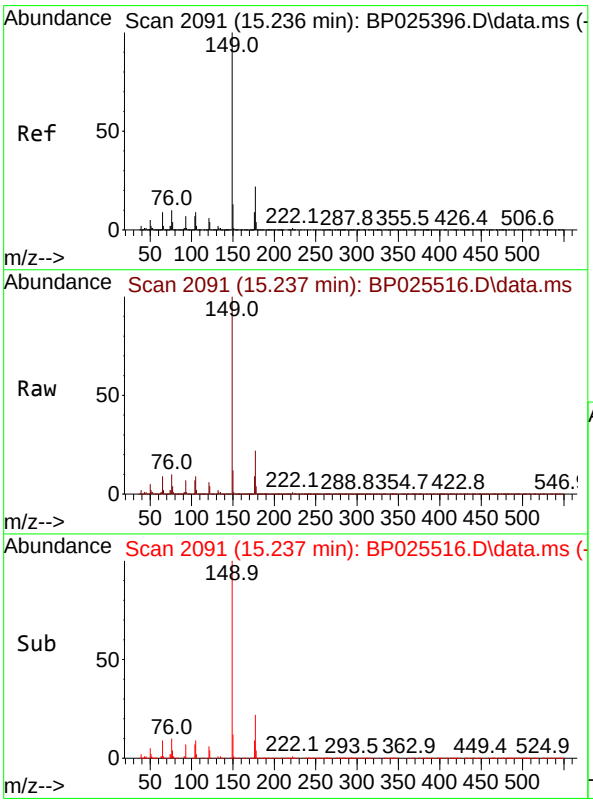
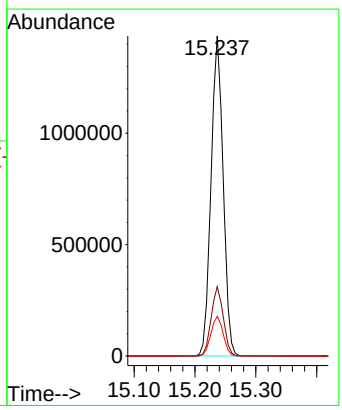
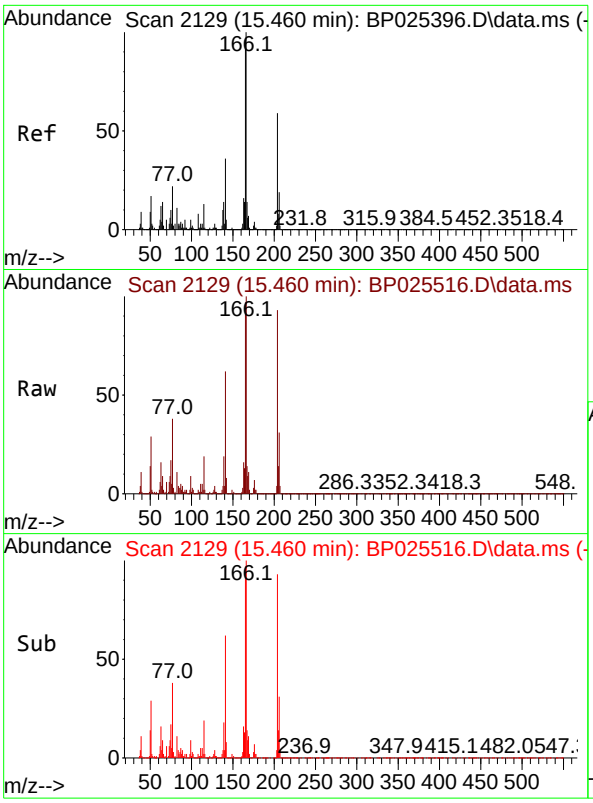


#60
Diethylphthalate
Concen: 49.161 ng
RT: 15.237 min Scan# 2091
Delta R.T. 0.000 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:149 Resp: 1984056

Ion	Ratio	Lower	Upper
149	100		
177	21.7	17.3	25.9
150	12.4	10.3	15.5





#61
4-Chlorophenyl-phenylether
Concen: 44.976 ng
RT: 15.460 min Scan# 21
Delta R.T. 0.000 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:204 Resp: 83115

Ion	Ratio	Lower	Upper
204	100		
206	33.4	25.8	38.8
141	66.4	49.4	74.2

Instrument :
BNA_P
ClientSampleId :
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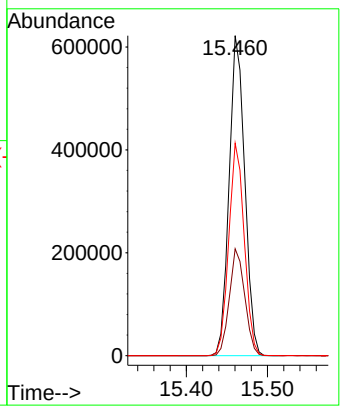
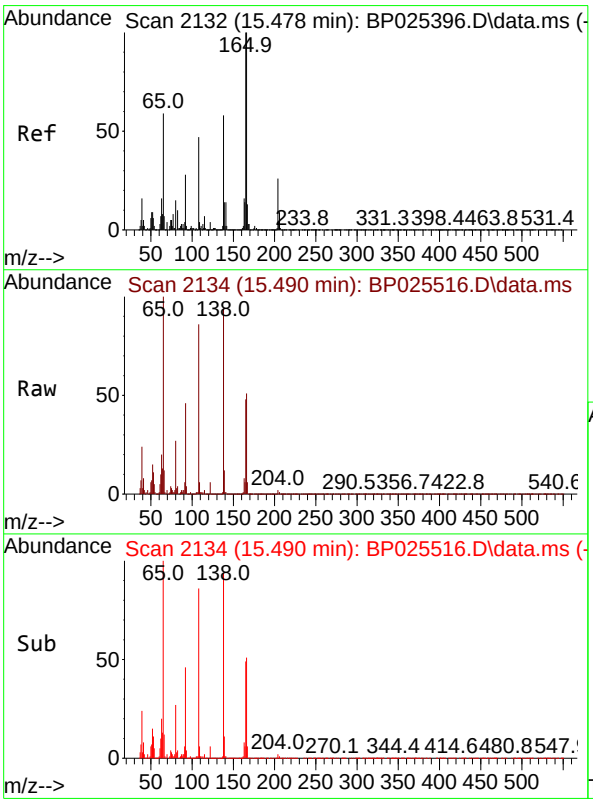
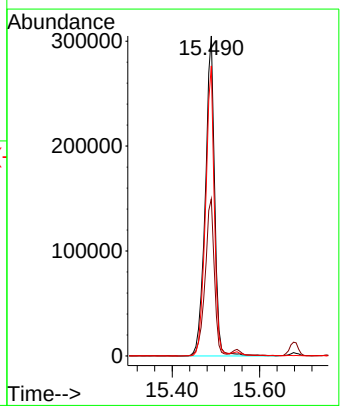


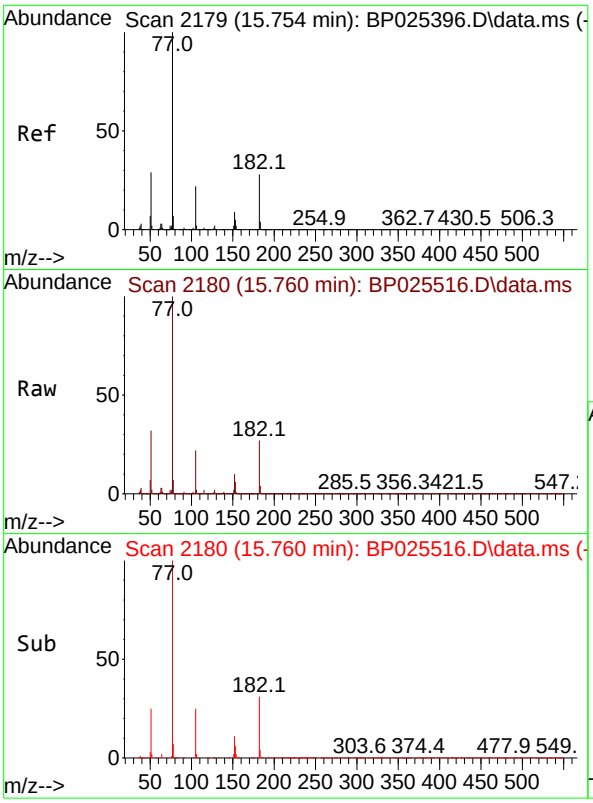


#62
4-Nitroaniline
Concen: 47.037 ng
RT: 15.490 min Scan# 2134
Delta R.T. 0.012 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:138 Resp: 454185

Ion	Ratio	Lower	Upper
138	100		
92	49.1	29.1	69.1
108	90.7	61.5	101.5

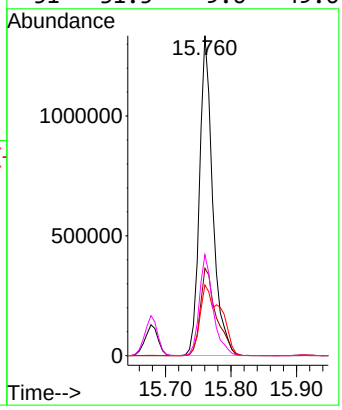




#63
Azobenzene
Concen: 54.357 ng
RT: 15.760 min Scan# 21
Delta R.T. 0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion: 77 Resp: 187842

Ion	Ratio	Lower	Upper
77	100		
182	27.3	7.5	47.5
105	22.1	2.1	42.1
51	31.5	9.6	49.6



Instrument :
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ClientSampleId :
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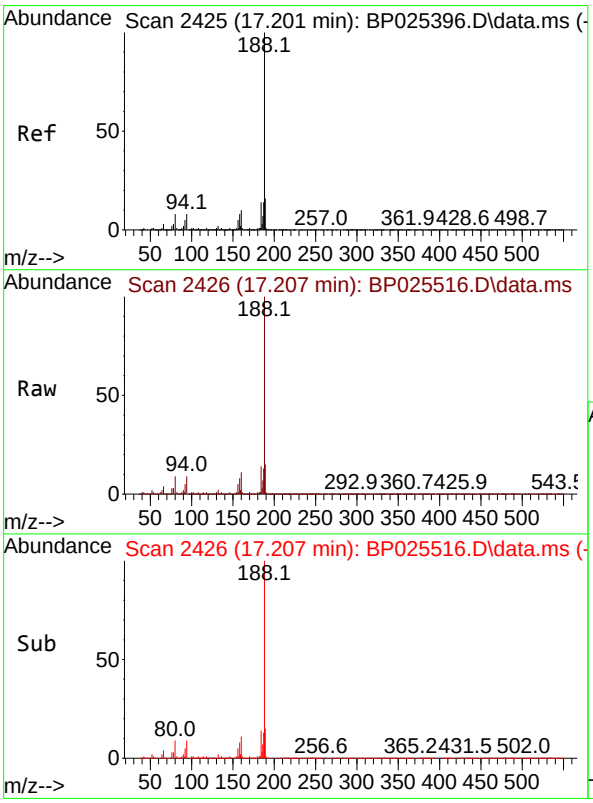
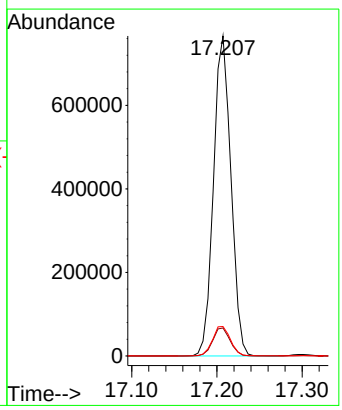
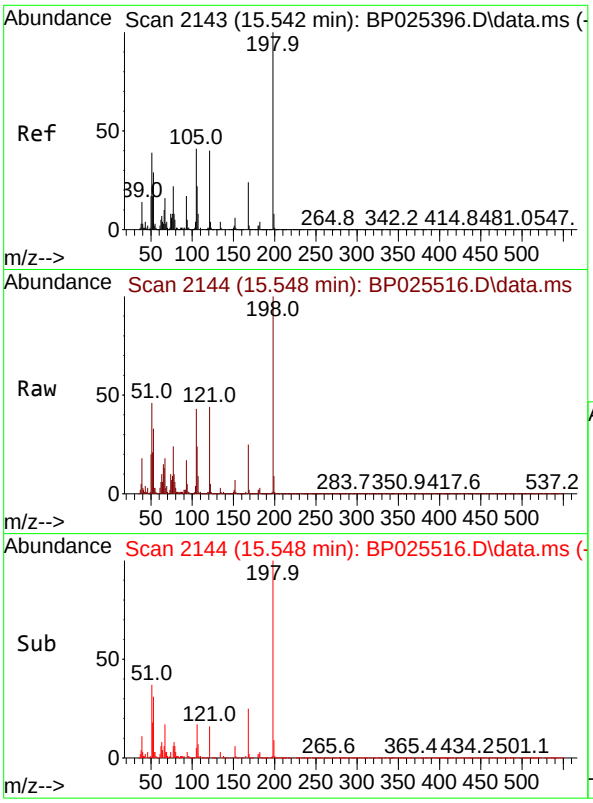


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.207 min Scan# 2426
Delta R.T. 0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:188 Resp: 1090849

Ion	Ratio	Lower	Upper
188	100		
94	8.8	6.6	10.0
80	9.2	6.7	10.1





#65
4,6-Dinitro-2-methylphenol
Concen: 51.578 ng
RT: 15.548 min Scan# 21
Delta R.T. 0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:198 Resp: 35072

Ion	Ratio	Lower	Upper
198	100		
51	45.9	19.6	59.6
105	42.6	20.9	60.9

Instrument :
BNA_P
ClientSampleId :
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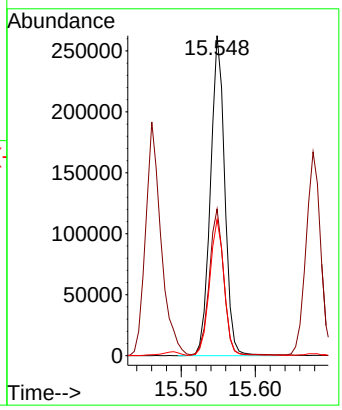
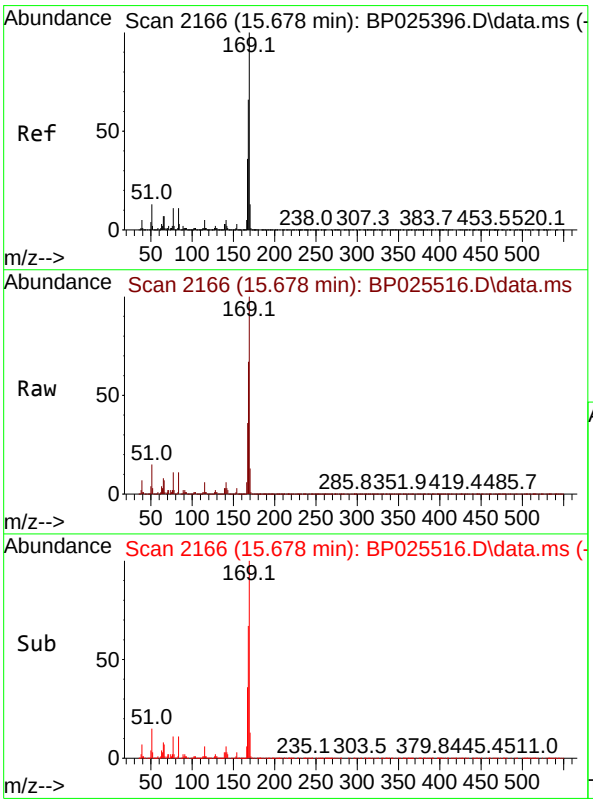
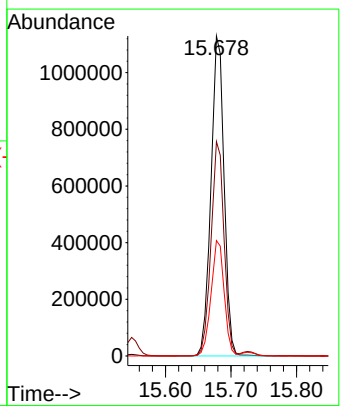


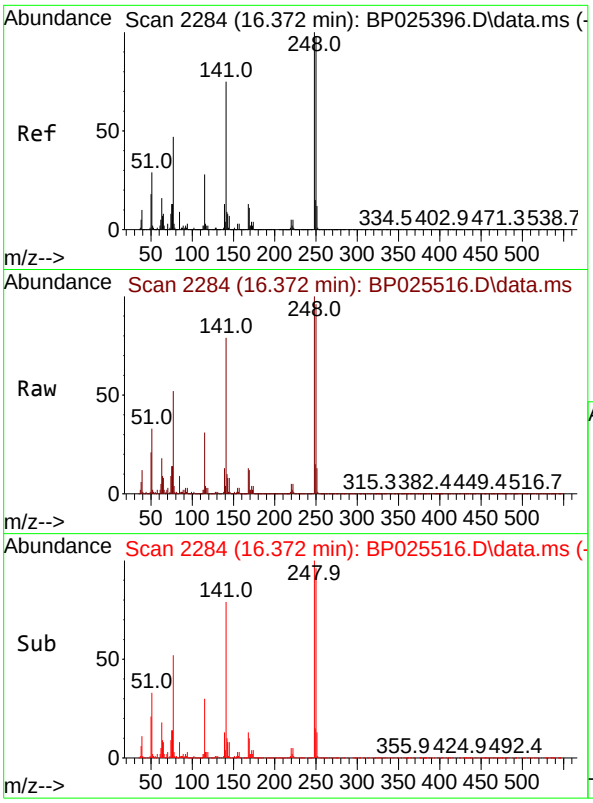


#66
n-Nitrosodiphenylamine
Concen: 47.250 ng
RT: 15.678 min Scan# 2166
Delta R.T. 0.000 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:169 Resp: 1571731

Ion	Ratio	Lower	Upper
169	100		
168	67.0	53.2	79.8
167	36.1	28.7	43.1





#67
4-Bromophenyl-phenylether
Concen: 48.762 ng
RT: 16.372 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:248 Resp: 58501

Ion	Ratio	Lower	Upper
248	100		
250	95.8	78.2	117.2
141	79.2	59.6	89.4

Instrument :
BNA_P
ClientSampleId :
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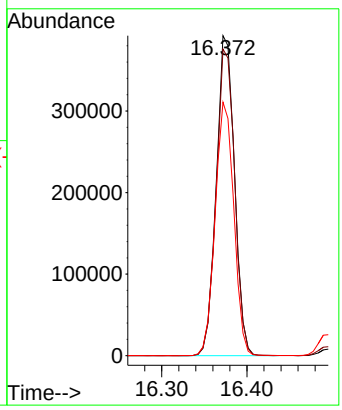
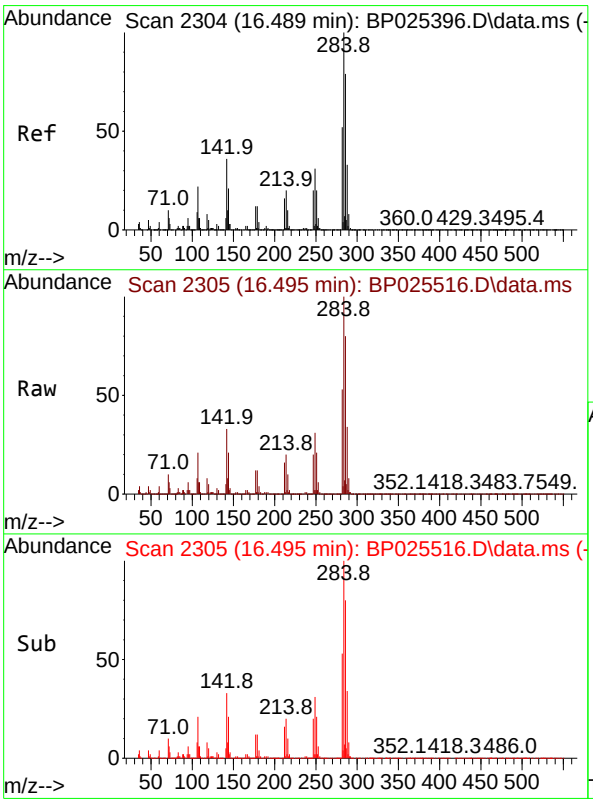
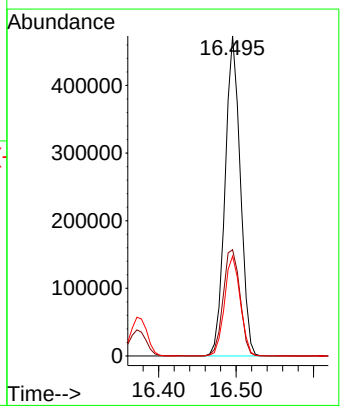


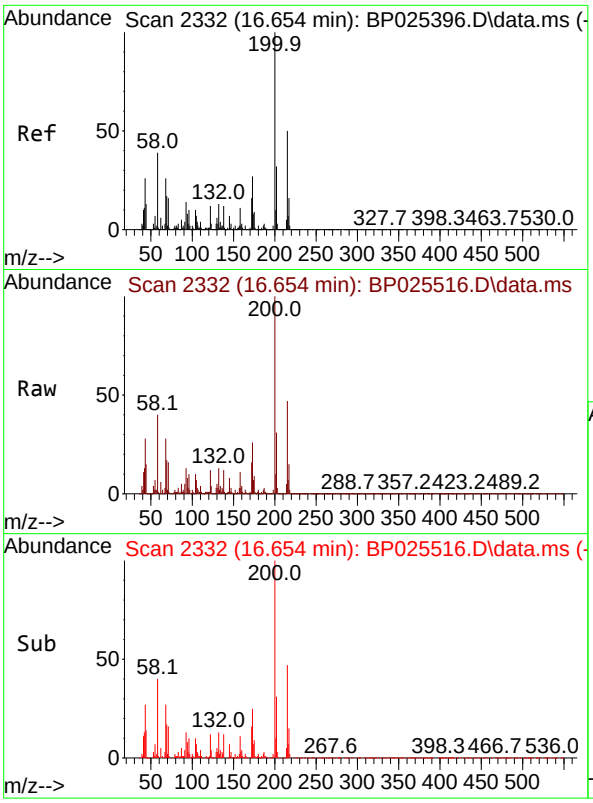


#68
Hexachlorobenzene
Concen: 46.567 ng
RT: 16.495 min Scan# 2305
Delta R.T. 0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:284 Resp: 647628

Ion	Ratio	Lower	Upper
284	100		
142	33.2	29.1	43.7
249	31.2	25.0	37.4

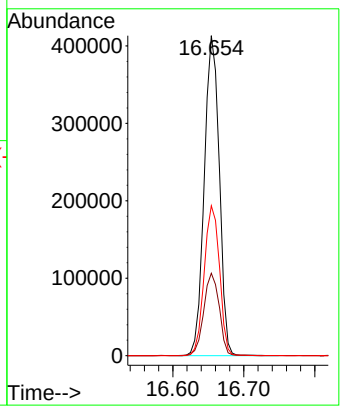




#69
Atrazine
Concen: 48.929 ng
RT: 16.654 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:200 Resp: 60954

Ion	Ratio	Lower	Upper
200	100		
173	25.8	6.7	46.7
215	46.9	29.7	69.7



Instrument :
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ClientSampleId :
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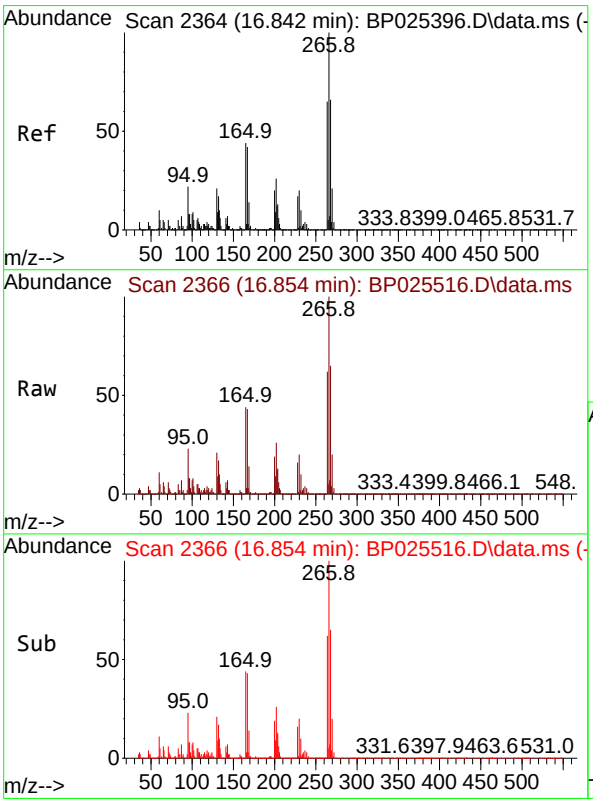
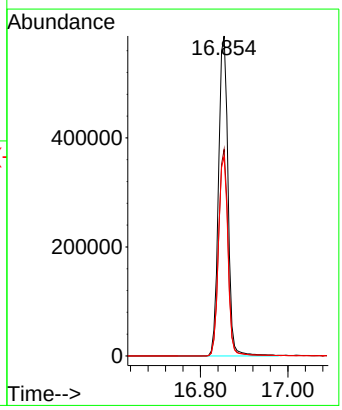
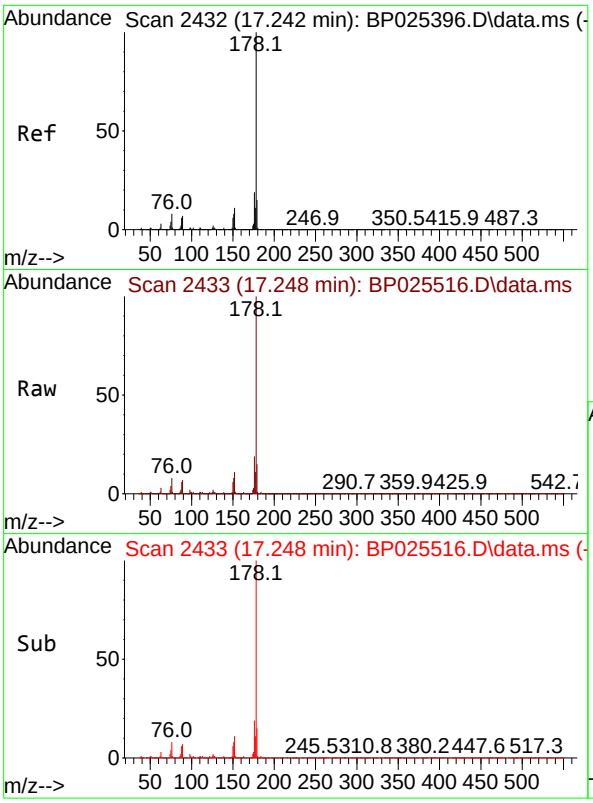


#70
Pentachlorophenol
Concen: 99.646 ng
RT: 16.854 min Scan# 2366
Delta R.T. 0.012 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:266 Resp: 874797

Ion	Ratio	Lower	Upper
266	100		
268	64.5	52.6	79.0
264	62.3	52.0	78.0

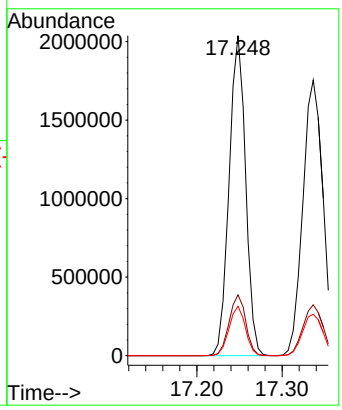




#71
Phenanthrene
Concen: 45.661 ng
RT: 17.248 min Scan# 24
Delta R.T. 0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:178 Resp: 273619

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.5	23.3
179	15.4	12.2	18.4



Instrument :
BNA_P
ClientSampleId :
22BP-WMS

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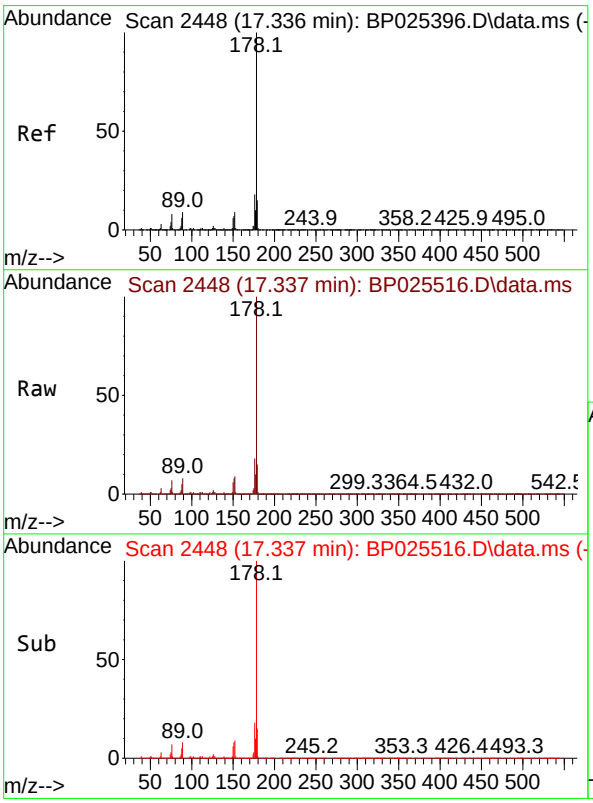
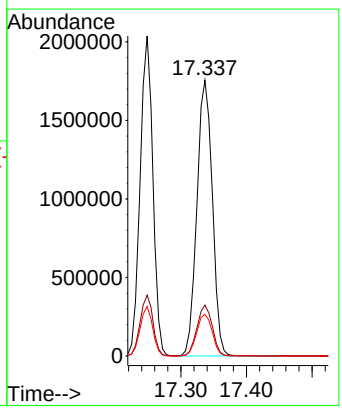
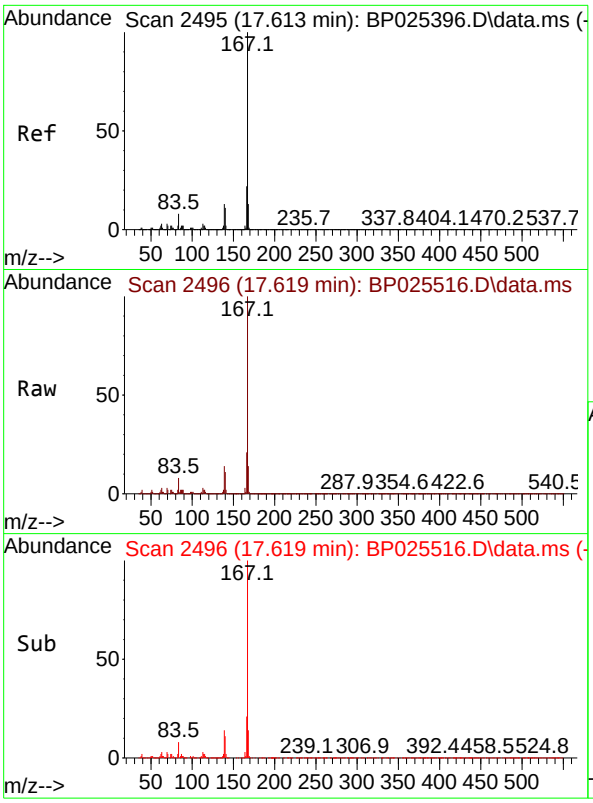


#72
Anthracene
Concen: 47.028 ng
RT: 17.337 min Scan# 2448
Delta R.T. 0.000 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:178 Resp: 2877852

Ion	Ratio	Lower	Upper
178	100		
176	18.5	14.7	22.1
179	15.0	12.2	18.2

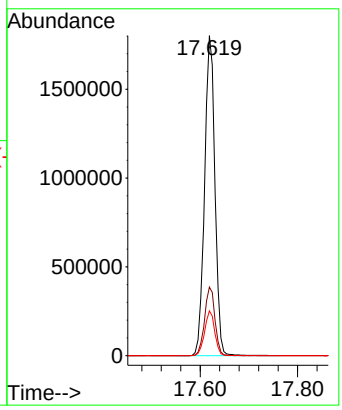




#73
Carbazole
Concen: 45.874 ng
RT: 17.619 min Scan# 24
Delta R.T. 0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:167 Resp: 264414

Ion	Ratio	Lower	Upper
167	100		
166	21.5	17.5	26.3
139	14.0	10.6	16.0



Instrument :
BNA_P
ClientSampleId :
22BP-WMS

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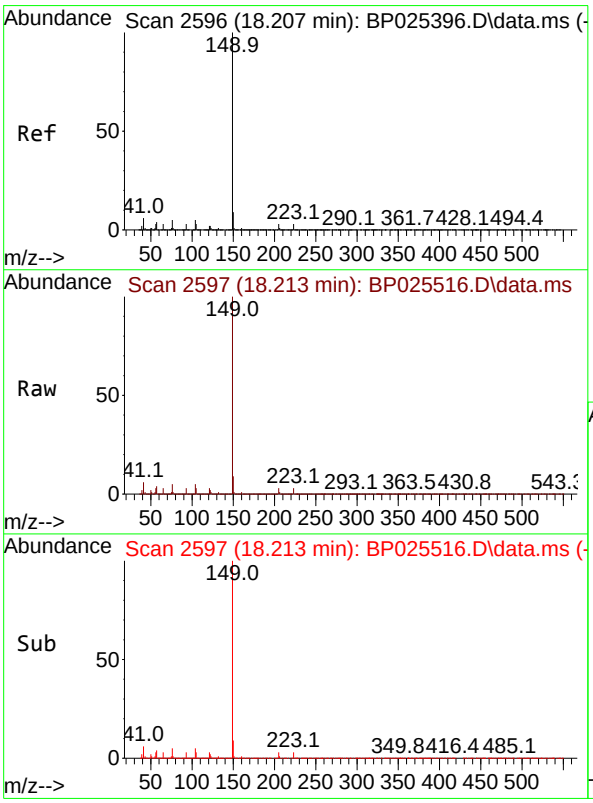
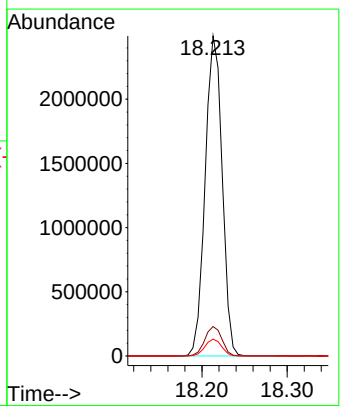
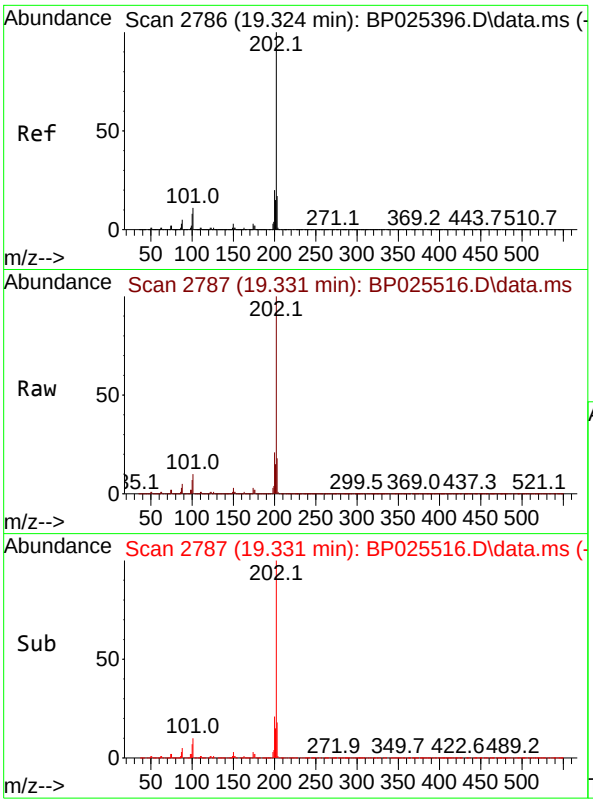


#74
Di-n-butylphthalate
Concen: 48.618 ng
RT: 18.213 min Scan# 2597
Delta R.T. 0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:149 Resp: 3447802

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.4	11.0
104	5.2	4.2	6.2

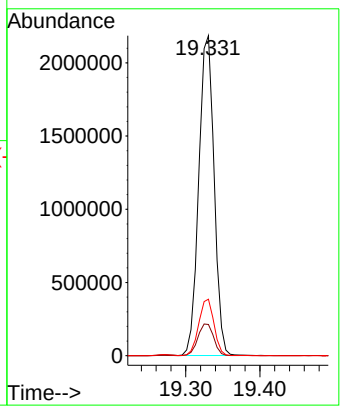




#75
Fluoranthene
Concen: 43.953 ng
RT: 19.331 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:202 Resp: 314170

Ion	Ratio	Lower	Upper
202	100		
101	9.8	0.0	31.1
203	17.6	0.0	37.3



Instrument :
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ClientSampleId :
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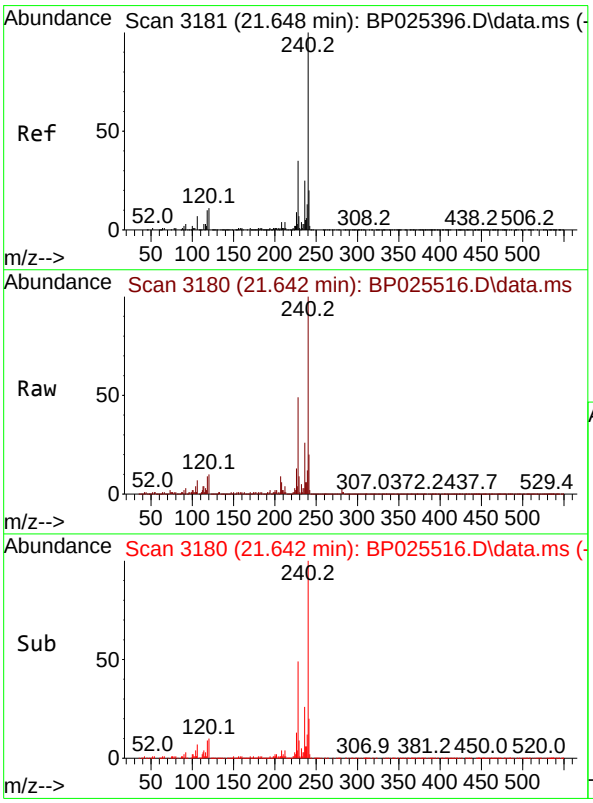
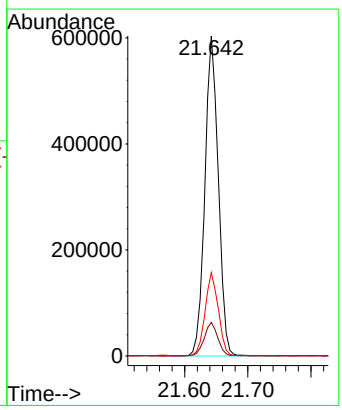
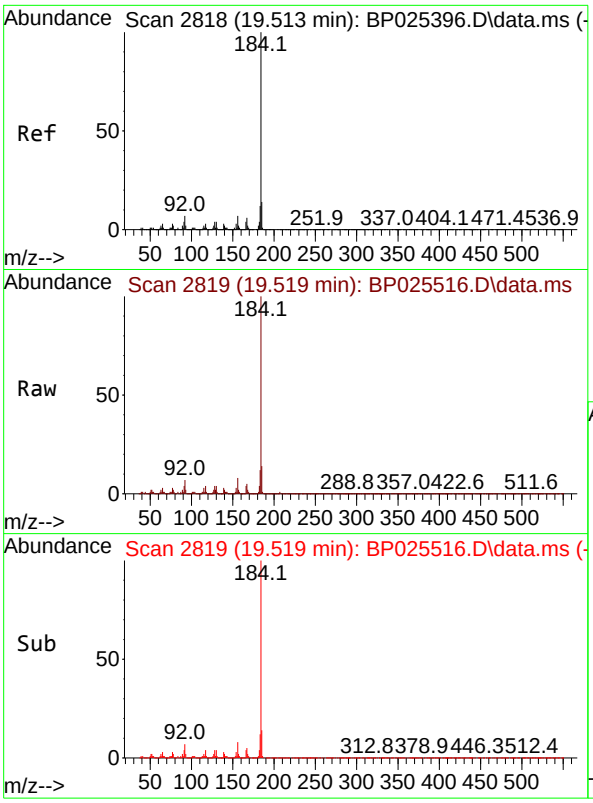


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.642 min Scan# 3180
Delta R.T. -0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:240 Resp: 892873

Ion	Ratio	Lower	Upper
240	100		
120	10.5	8.9	13.3
236	26.1	19.8	29.8

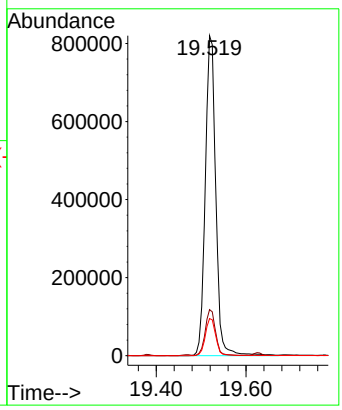




#77
Benzidine
Concen: 43.542 ng
RT: 19.519 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:184 Resp: 132680

Ion	Ratio	Lower	Upper
184	100		
185	14.4	11.5	17.3
183	11.6	9.4	14.2



Instrument :
BNA_P
ClientSampleId :
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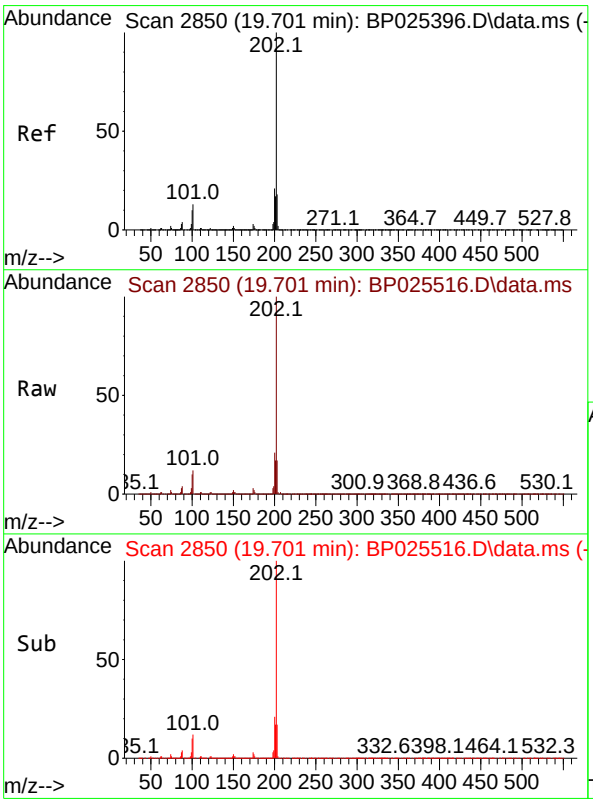
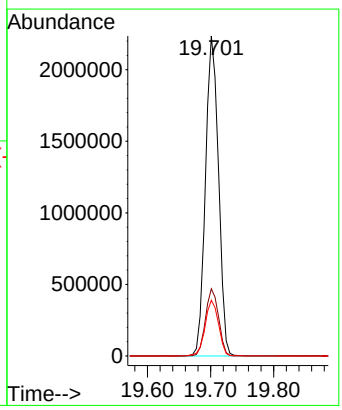
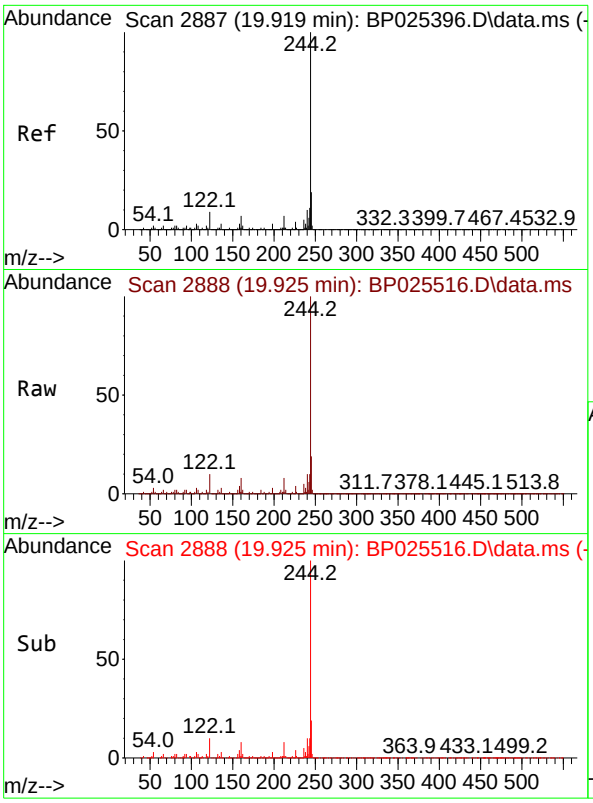


#78
Pyrene
Concen: 55.290 ng
RT: 19.701 min Scan# 2850
Delta R.T. 0.000 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:202 Resp: 3208701

Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.9	25.3
203	17.4	14.2	21.2

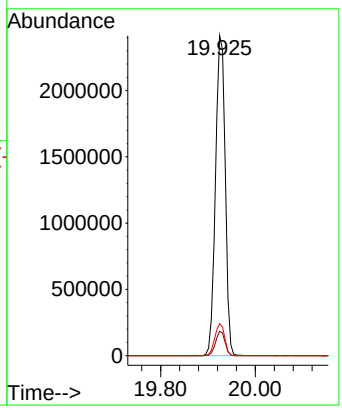




#79
Terphenyl-d14
Concen: 70.370 ng
RT: 19.925 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:244 Resp: 343422

Ion	Ratio	Lower	Upper
244	100		
212	7.6	5.8	8.6
122	10.0	7.4	11.2



Instrument :
BNA_P
ClientSampleId :
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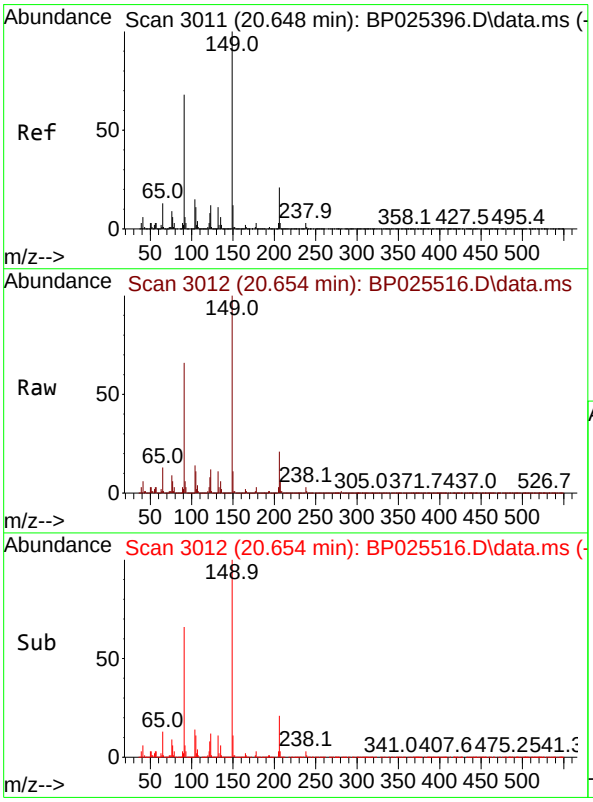
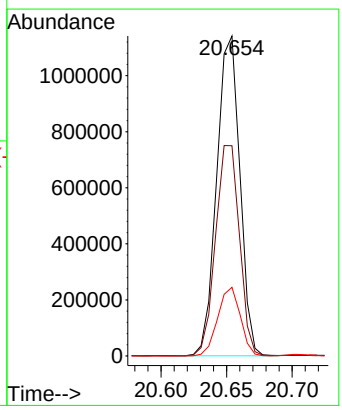
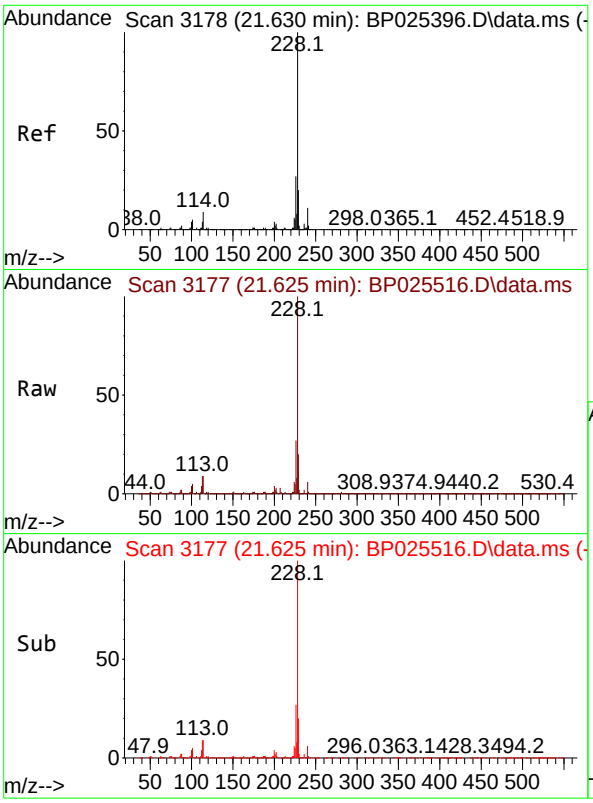


#80
Butylbenzylphthalate
Concen: 53.266 ng
RT: 20.654 min Scan# 3012
Delta R.T. 0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:149 Resp: 1400983

Ion	Ratio	Lower	Upper
149	100		
91	65.7	54.2	81.2
206	21.5	16.6	24.8

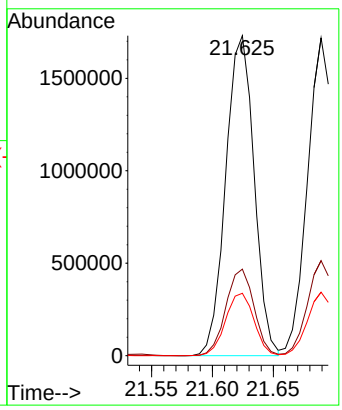




#81
Benzo(a)anthracene
Concen: 47.640 ng
RT: 21.625 min Scan# 3
Delta R.T. -0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:228 Resp: 280527

Ion	Ratio	Lower	Upper
228	100		
226	27.0	21.7	32.5
229	19.5	15.6	23.4



Instrument :
BNA_P
ClientSampleId :
22BP-WMS

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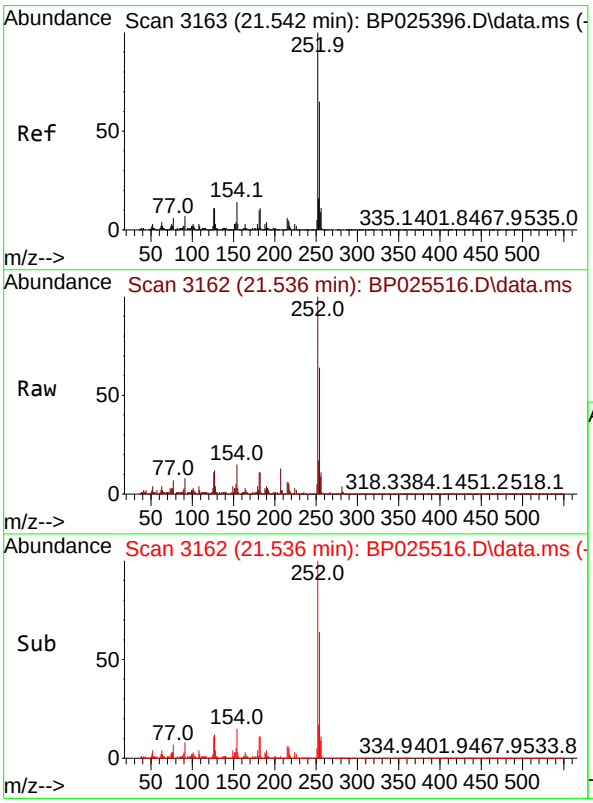
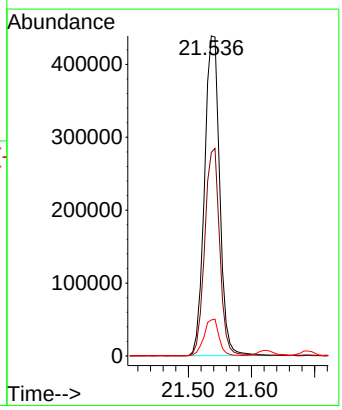
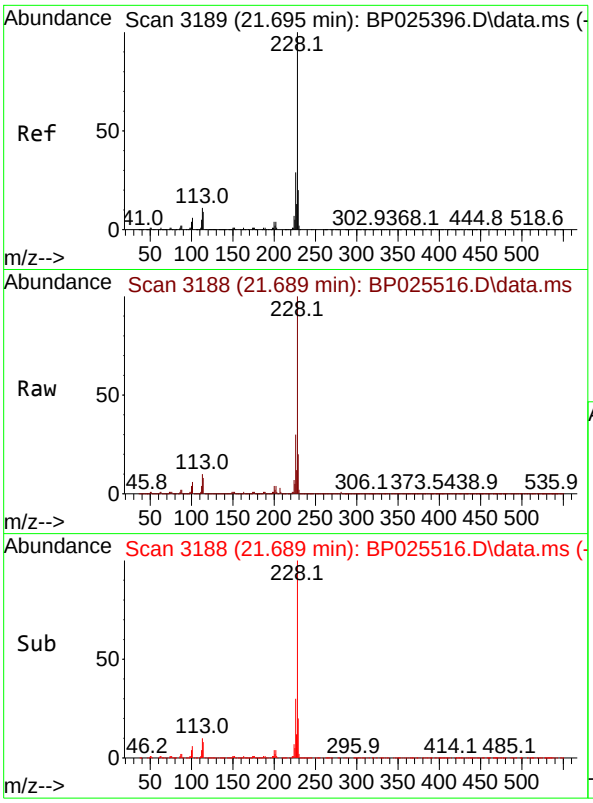


#82
3,3'-Dichlorobenzidine
Concen: 33.021 ng
RT: 21.536 min Scan# 3162
Delta R.T. -0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:252 Resp: 732910

Ion	Ratio	Lower	Upper
252	100		
254	63.6	51.8	77.6
126	11.2	9.1	13.7

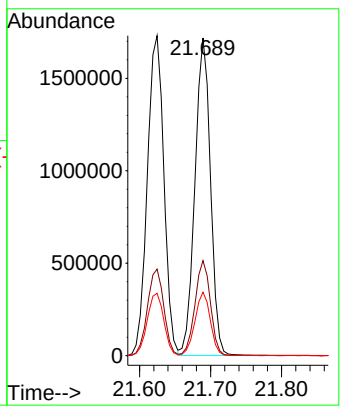




#83
Chrysene
Concen: 47.543 ng
RT: 21.689 min Scan# 3
Delta R.T. -0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:228 Resp: 262178

Ion	Ratio	Lower	Upper
228	100		
226	29.9	23.2	34.8
229	20.0	15.6	23.4



Instrument :
BNA_P
ClientSampleId :
22BP-WMS

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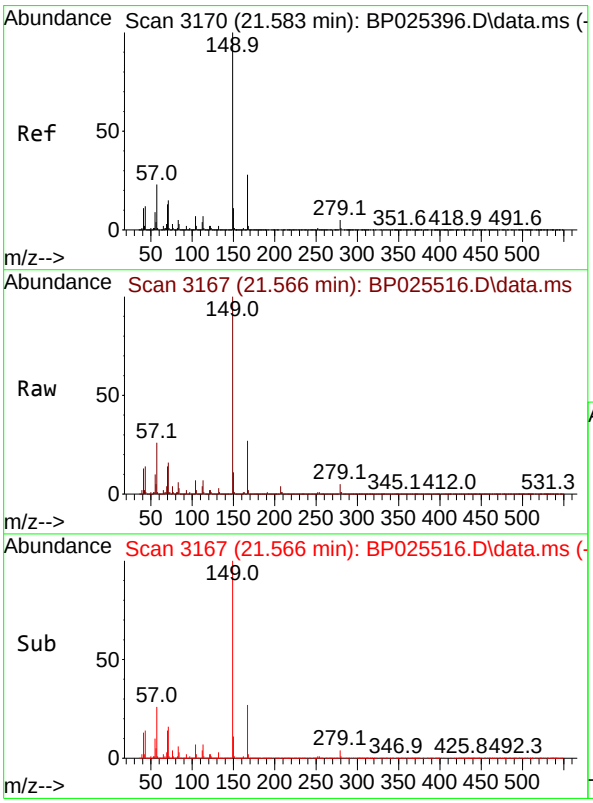
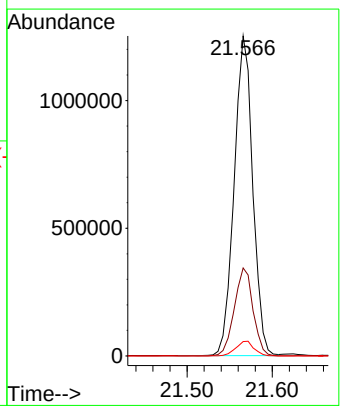
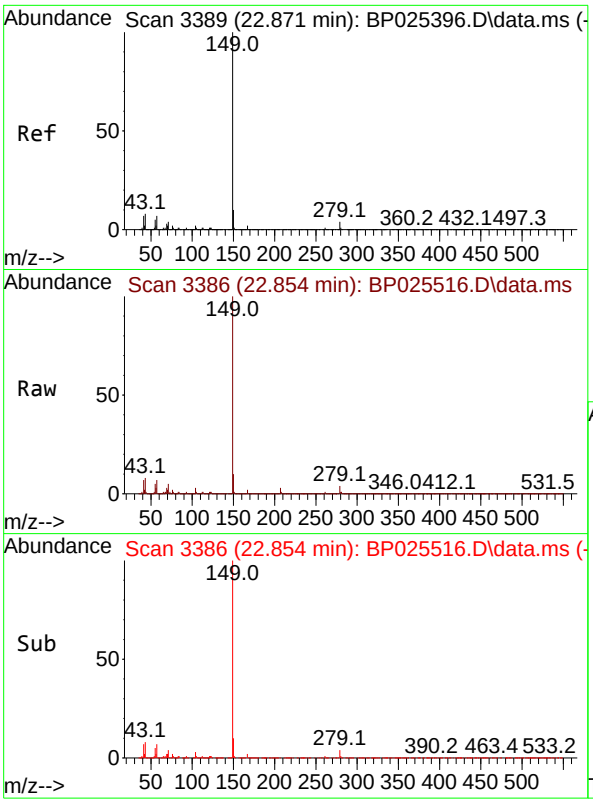


#84
Bis(2-ethylhexyl)phthalate
Concen: 48.987 ng
RT: 21.566 min Scan# 3167
Delta R.T. -0.017 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:149 Resp: 1896634

Ion	Ratio	Lower	Upper
149	100		
167	27.5	22.1	33.1
279	4.5	3.8	5.6

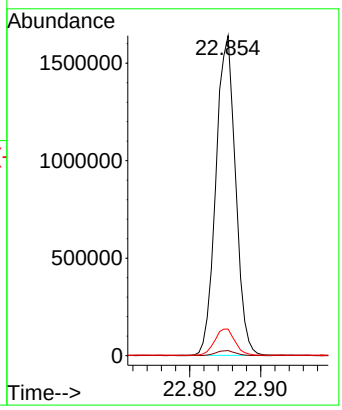




#85
Di-n-octyl phthalate
Concen: 47.102 ng
RT: 22.854 min Scan# 3
Delta R.T. -0.017 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:149 Resp: 313677

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	8.4	6.3	9.5



Instrument :
BNA_P
ClientSampleId :
22BP-WMS

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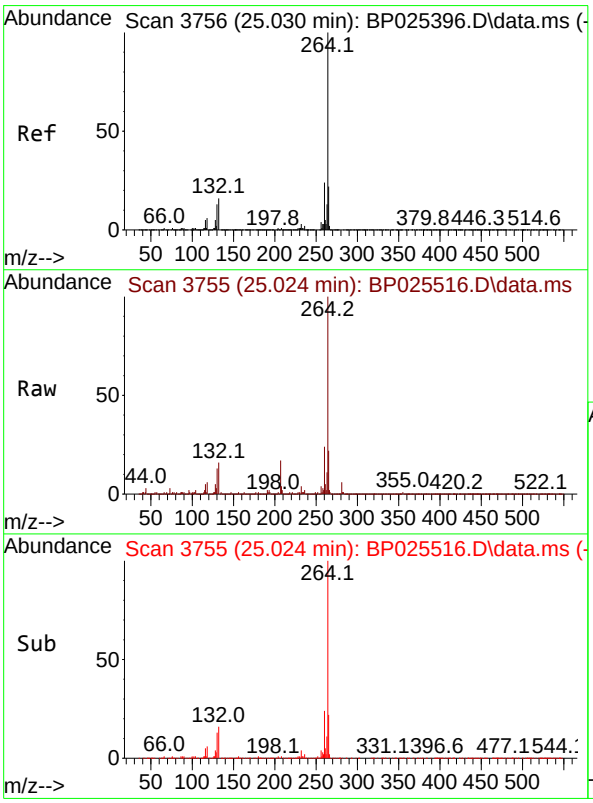
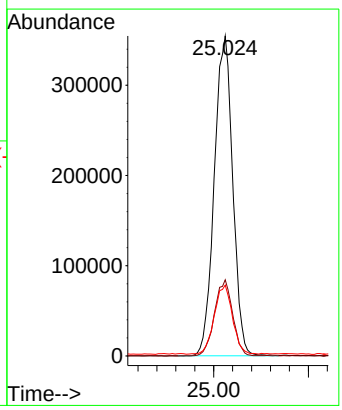
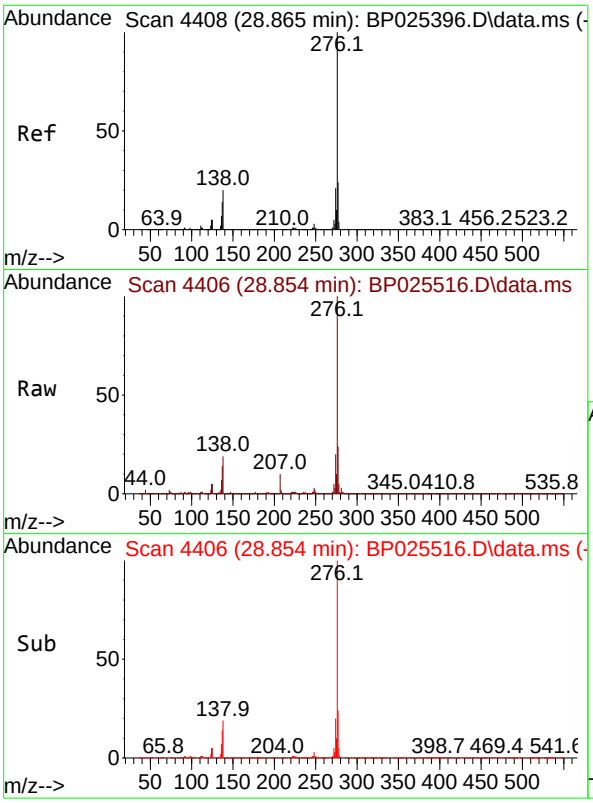


#86
Perylene-d12
Concen: 20.000 ng
RT: 25.024 min Scan# 3755
Delta R.T. -0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:264 Resp: 958463

Ion	Ratio	Lower	Upper
264	100		
260	23.8	19.3	28.9
265	22.1	17.4	26.0

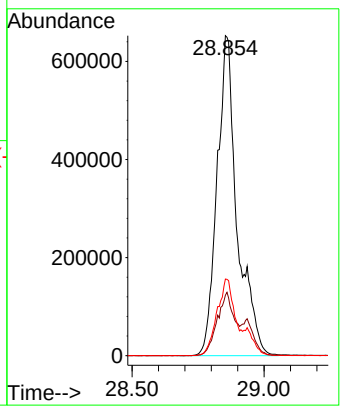




#87
Indeno(1,2,3-cd)pyrene
Concen: 49.235 ng m
RT: 28.854 min Scan# 4
Delta R.T. -0.012 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:276 Resp: 346070

Ion	Ratio	Lower	Upper
276	100		
138	16.9	12.9	19.3
277	21.2	17.0	25.6



Instrument :
BNA_P
ClientSampleId :
22BP-WMS

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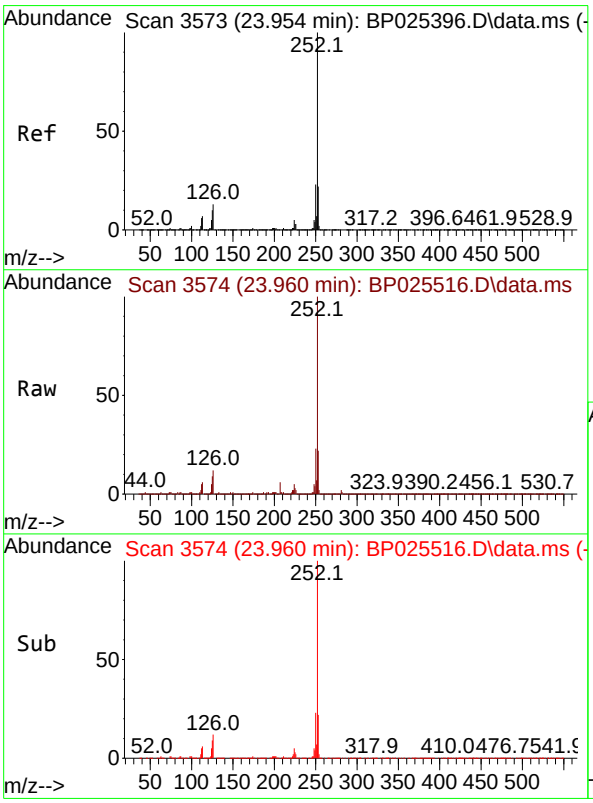
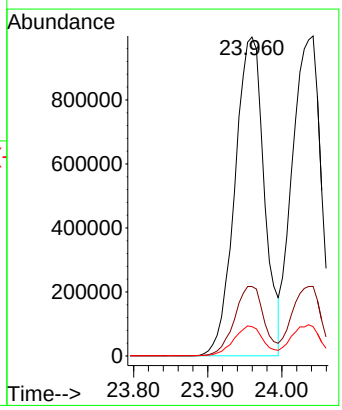
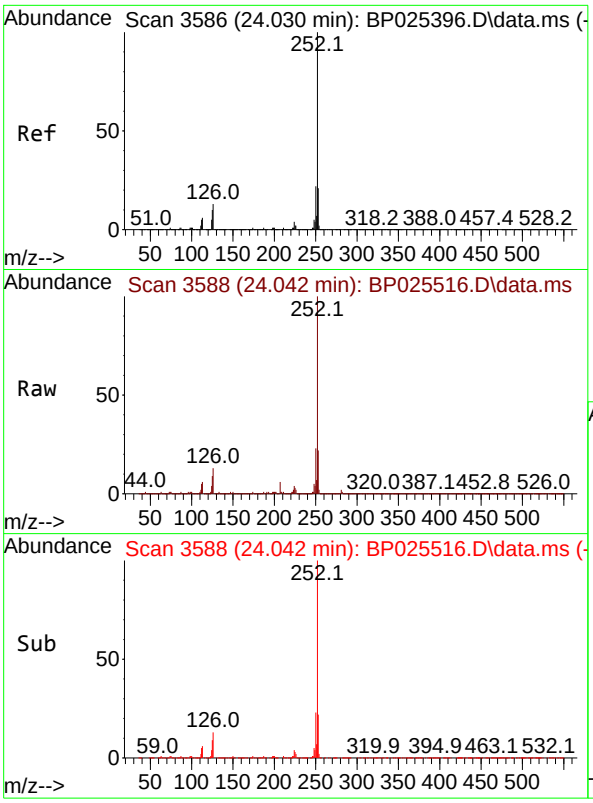


#88
Benzo(b)fluoranthene
Concen: 48.561 ng
RT: 23.960 min Scan# 3574
Delta R.T. 0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:252 Resp: 2744537

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.7	26.5
125	9.2	7.9	11.9

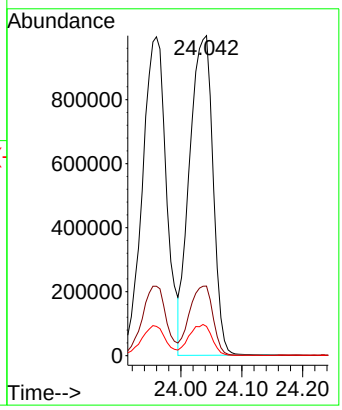




#89
Benzo(k)fluoranthene
Concen: 47.128 ng
RT: 24.042 min Scan# 3
Delta R.T. 0.012 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:252 Resp: 266539

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.1	25.7
125	9.1	7.8	11.6



Instrument :
BNA_P
ClientSampleId :
22BP-WMS

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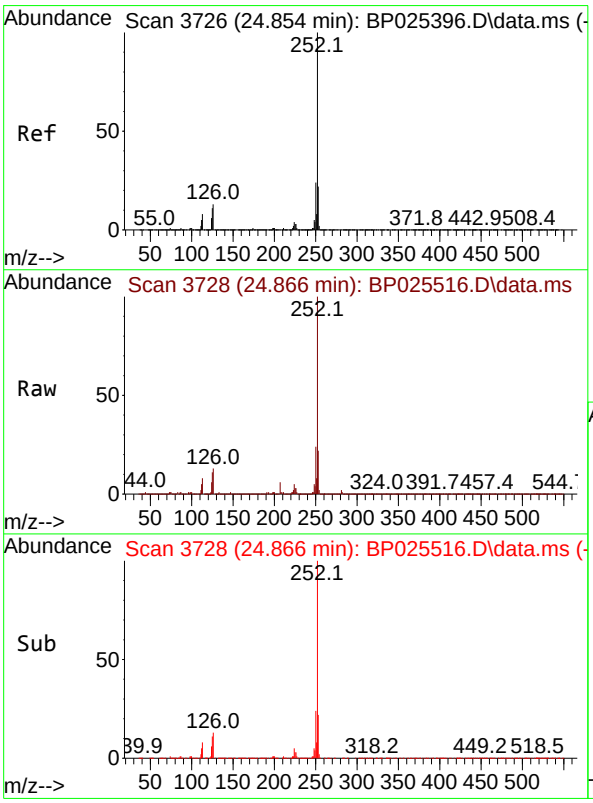
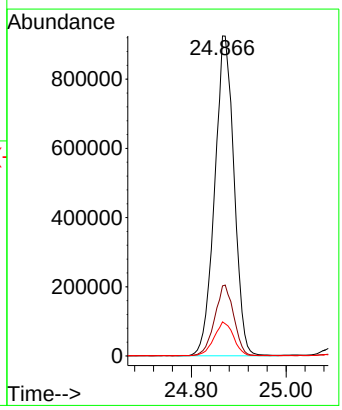
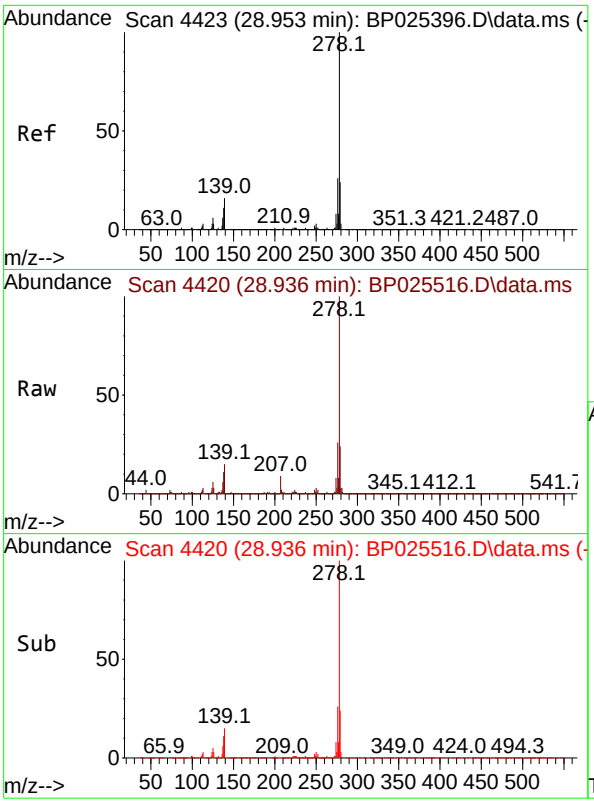


#90
Benzo(a)pyrene
Concen: 47.615 ng
RT: 24.866 min Scan# 3728
Delta R.T. 0.012 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:252 Resp: 2619564

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.5	26.3
125	10.7	8.7	13.1

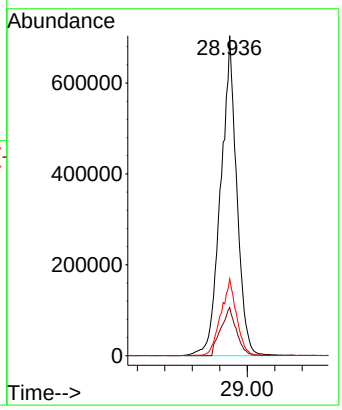




#91
Dibenzo(a,h)anthracene
Concen: 49.664 ng
RT: 28.936 min Scan# 4
Delta R.T. -0.017 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:278 Resp: 285276

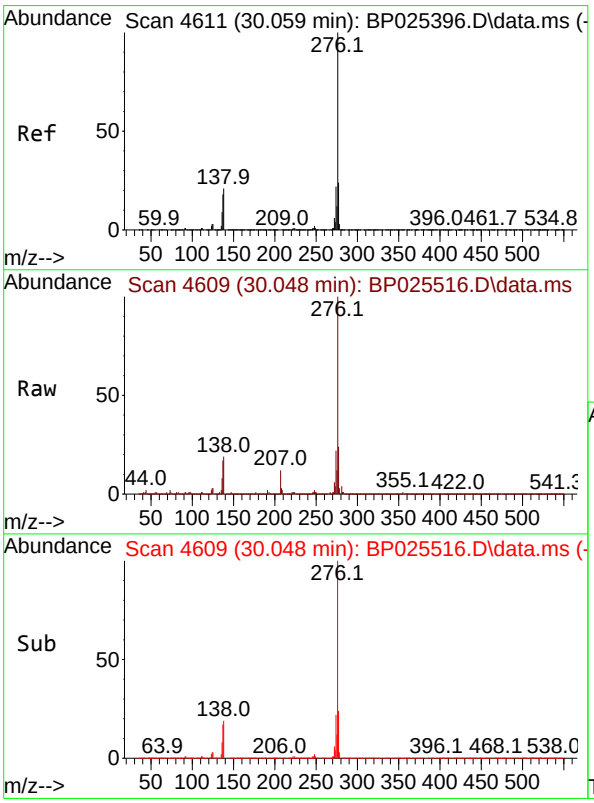
Ion	Ratio	Lower	Upper
278	100		
139	15.1	13.0	19.4
279	24.0	19.4	29.2



Instrument :
BNA_P
ClientSampleId :
22BP-WMS

Manual Integrations
APPROVED

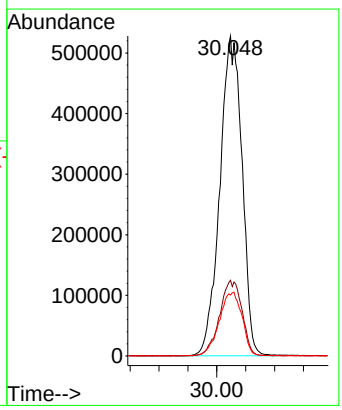
Reviewed By :Rahul Chavli 08/21/2025
Supervised By :Jagrut Upadhyay 08/21/2025



#92
Benzo(g,h,i)perylene
Concen: 49.963 ng
RT: 30.048 min Scan# 4609
Delta R.T. -0.012 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:276 Resp: 2821095

Ion	Ratio	Lower	Upper
276	100		
277	23.7	19.4	29.0
138	19.1	16.7	25.1



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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/06/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	38M-NMS	SDG No.:	Q2819
Lab Sample ID:	Q2819-17MS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	87.5
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP025520.D	1	08/15/25 08:25	08/20/25 23:54	PB169259

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
100-52-7	Benzaldehyde	1000		180	310	380	ug/Kg
108-95-2	Phenol	1700		25.2	150	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1700		27.7	150	190	ug/Kg
95-57-8	2-Chlorophenol	1700		27.9	150	190	ug/Kg
95-48-7	2-Methylphenol	1700		34.1	150	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1700		42.8	150	190	ug/Kg
98-86-2	Acetophenone	1700		33.7	150	190	ug/Kg
65794-96-9	3+4-Methylphenols	1700		46.9	310	380	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1600		54.1	91.3	91.3	ug/Kg
67-72-1	Hexachloroethane	1700		20.1	150	190	ug/Kg
98-95-3	Nitrobenzene	1800		20.9	150	190	ug/Kg
78-59-1	Isophorone	1700		37.4	150	190	ug/Kg
88-75-5	2-Nitrophenol	1800		66.4	150	190	ug/Kg
105-67-9	2,4-Dimethylphenol	1700		74.0	150	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1700		35.2	150	190	ug/Kg
120-83-2	2,4-Dichlorophenol	1800		32.3	150	190	ug/Kg
91-20-3	Naphthalene	1700		25.9	150	190	ug/Kg
106-47-8	4-Chloroaniline	1200		40.4	150	190	ug/Kg
87-68-3	Hexachlorobutadiene	1700		28.9	150	190	ug/Kg
105-60-2	Caprolactam	1800		59.5	310	380	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1800		32.8	150	190	ug/Kg
91-57-6	2-Methylnaphthalene	1600		29.2	150	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	3500	E	130	310	380	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1800		22.6	150	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1900		33.2	150	190	ug/Kg
92-52-4	1,1-Biphenyl	1700		24.9	150	190	ug/Kg
91-58-7	2-Chloronaphthalene	1700		25.7	150	190	ug/Kg
88-74-4	2-Nitroaniline	1900		54.9	150	190	ug/Kg
131-11-3	Dimethylphthalate	1700		30.9	150	190	ug/Kg

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/06/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	38M-NMS	SDG No.:	Q2819
Lab Sample ID:	Q2819-17MS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	87.5
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP025520.D	1	08/15/25 08:25	08/20/25 23:54	PB169259

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1800		33.0	150	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	1900		38.4	150	190	ug/Kg
99-09-2	3-Nitroaniline	1400		52.5	150	190	ug/Kg
83-32-9	Acenaphthene	1700		24.3	150	190	ug/Kg
51-28-5	2,4-Dinitrophenol	4200	E	260	310	380	ug/Kg
100-02-7	4-Nitrophenol	3900	E	120	310	380	ug/Kg
132-64-9	Dibenzofuran	1700		25.9	150	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	1900		57.2	150	190	ug/Kg
84-66-2	Diethylphthalate	1800		32.3	150	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1700		30.5	150	190	ug/Kg
86-73-7	Fluorene	1700		28.9	150	190	ug/Kg
100-01-6	4-Nitroaniline	1800		73.3	150	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1900		120	310	380	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1700		37.6	150	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1700		31.7	150	190	ug/Kg
118-74-1	Hexachlorobenzene	1700		28.9	150	190	ug/Kg
1912-24-9	Atrazine	1800		38.8	150	190	ug/Kg
87-86-5	Pentachlorophenol	3700	E	58.6	310	380	ug/Kg
85-01-8	Phenanthrene	1700		23.9	150	190	ug/Kg
120-12-7	Anthracene	1700		38.0	150	190	ug/Kg
86-74-8	Carbazole	1800		35.6	150	190	ug/Kg
84-74-2	Di-n-butylphthalate	1800		54.7	150	190	ug/Kg
206-44-0	Fluoranthene	1700		34.3	150	190	ug/Kg
129-00-0	Pyrene	1700		41.1	150	190	ug/Kg
85-68-7	Butylbenzylphthalate	1800		81.5	150	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1200		41.9	310	380	ug/Kg
56-55-3	Benzo(a)anthracene	1800		26.3	150	190	ug/Kg
218-01-9	Chrysene	1800		22.7	150	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1800		67.6	150	190	ug/Kg
117-84-0	Di-n-octyl phthalate	1900		99.1	310	380	ug/Kg
205-99-2	Benzo(b)fluoranthene	1700		21.7	150	190	ug/Kg

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/06/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	38M-NMS	SDG No.:	Q2819
Lab Sample ID:	Q2819-17MS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	87.5
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP025520.D	1	08/15/25 08:25	08/20/25 23:54	PB169259

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1800		25.6	150	190	ug/Kg
50-32-8	Benzo(a)pyrene	1700		33.7	150	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1800		33.2	150	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1800		31.3	150	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1800		29.3	150	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1700		29.2	150	190	ug/Kg
123-91-1	1,4-Dioxane	1600		51.6	150	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1900		31.3	150	190	ug/Kg
SURROGATES							
367-12-4	2-Fluorophenol	101		35 - 115		67%	SPK: 150
13127-88-3	Phenol-d6	98.5		34 - 127		66%	SPK: 150
4165-60-0	Nitrobenzene-d5	64.1		37 - 122		64%	SPK: 100
321-60-8	2-Fluorobiphenyl	56.9		44 - 115		57%	SPK: 100
118-79-6	2,4,6-Tribromophenol	100		39 - 132		67%	SPK: 150
1718-51-0	Terphenyl-d14	56.8		54 - 127		57%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	163000	7.784				
1146-65-2	Naphthalene-d8	635000	10.554				
15067-26-2	Acenaphthene-d10	403000	14.407				
1517-22-2	Phenanthrene-d10	838000	17.213				
1719-03-5	Chrysene-d12	894000	21.648				
1520-96-3	Perylene-d12	1030000	25.012				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025520.D
Acq On : 20 Aug 2025 23:54
Operator : CG/JU
Sample : Q2819-17MS
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 21 01:39:50 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
38M-NMS

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 08/21/2025
Supervised By :Jagrut Upadhyay 08/21/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.784	152	163086	20.000	ng	-0.01
21) Naphthalene-d8	10.554	136	635345	20.000	ng	0.00
39) Acenaphthene-d10	14.407	164	403432	20.000	ng	0.00
64) Phenanthrene-d10	17.213	188	837501	20.000	ng	0.01
76) Chrysene-d12	21.648	240	894140	20.000	ng	0.00
86) Perylene-d12	25.012	264	1028739	20.000	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.408	112	989172	100.727	ng	0.00
7) Phenol-d6	6.966	99	1240787	98.550	ng	0.00
23) Nitrobenzene-d5	8.925	82	804810	64.078	ng	-0.01
42) 2,4,6-Tribromophenol	15.919	330	543808	100.145	ng	0.00
45) 2-Fluorobiphenyl	13.013	172	1679128	56.883	ng	0.00
79) Terphenyl-d14	19.919	244	2776530	56.813	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.331	88	158752	41.271	ng	98
3) Pyridine	3.725	79	424150	40.286	ng	95
4) n-Nitrosodimethylamine	3.631	42	208103	47.944	ng	93
6) Aniline	7.119	93	566664	33.405	ng	98
8) 2-Chlorophenol	7.360	128	507351	45.782	ng	99
9) Benzaldehyde	6.937	77	241200	27.344	ng	99
10) Phenol	6.990	94	599139	45.350	ng	96
11) bis(2-Chloroethyl)ether	7.213	93	449455	43.648	ng	98
12) 1,3-Dichlorobenzene	7.678	146	540474	44.230	ng	99
13) 1,4-Dichlorobenzene	7.819	146	551846	44.184	ng	99
14) 1,2-Dichlorobenzene	8.137	146	529135	43.766	ng	99
15) Benzyl Alcohol	8.019	79	445758	44.558	ng	97
16) 2,2'-oxybis(1-Chloropr...	8.302	45	614047	44.515	ng	97
17) 2-Methylphenol	8.225	107	410870	44.779	ng	97
18) Hexachloroethane	8.854	117	207815	45.254	ng	99
19) n-Nitroso-di-n-propyla...	8.578	70	342780	41.102	ng	95
20) 3+4-Methylphenols	8.549	107	560181	44.044	ng	97
22) Acetophenone	8.596	105	721397	45.276	ng	98
24) Nitrobenzene	8.966	77	518939	46.231	ng	98
25) Isophorone	9.496	82	977284	43.967	ng	99
26) 2-Nitrophenol	9.672	139	268342	46.582	ng	96
27) 2,4-Dimethylphenol	9.737	122	451118	45.537	ng	97
28) bis(2-Chloroethoxy)met...	9.966	93	598293	44.529	ng	99
29) 2,4-Dichlorophenol	10.207	162	461305	46.875	ng	98
30) 1,2,4-Trichlorobenzene	10.419	180	476140	44.136	ng	100
31) Naphthalene	10.607	128	1465253	44.371	ng	100
32) Benzoic acid	9.884	122	357969	48.944	ng	97
33) 4-Chloroaniline	10.707	127	444888	30.500	ng	99
34) Hexachlorobutadiene	10.895	225	307838	45.819	ng	98
35) Caprolactam	11.495	113	166502	46.140	ng	97
36) 4-Chloro-3-methylphenol	11.837	107	524543	46.451	ng	96
37) 2-Methylnaphthalene	12.213	142	931072	43.326	ng	99
38) 1-Methylnaphthalene	12.431	142	982511	42.991	ng	99
40) 1,2,4,5-Tetrachloroben...	12.584	216	529445	45.440	ng	98
41) Hexachlorocyclopentadiene	12.566	237	649355	92.264	ng	99
43) 2,4,6-Trichlorophenol	12.825	196	376373	47.848	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025520.D
Acq On : 20 Aug 2025 23:54
Operator : CG/JU
Sample : Q2819-17MS
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 21 01:39:50 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
38M-NMS

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 08/21/2025
Supervised By :Jagrut Upadhyay 08/21/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.895	196	422835	49.047	ng	99
46) 1,1'-Biphenyl	13.225	154	1330277	45.403	ng	99
47) 2-Chloronaphthalene	13.266	162	1023704	44.881	ng	99
48) 2-Nitroaniline	13.472	65	336748	50.668	ng	96
49) Acenaphthylene	14.125	152	1737611	46.038	ng	100
50) Dimethylphthalate	13.860	163	1350968	45.729	ng	100
51) 2,6-Dinitrotoluene	13.966	165	303179	48.690	ng	95
52) Acenaphthene	14.472	154	1000372	45.154	ng	99
53) 3-Nitroaniline	14.295	138	250146	35.706	ng	95
54) 2,4-Dinitrophenol	14.519	184	370066	111.289	ng	97
55) Dibenzofuran	14.813	168	1576282	45.003	ng	98
56) 4-Nitrophenol	14.625	139	587000	101.965	ng	93
57) 2,4-Dinitrotoluene	14.772	165	448248	50.455	ng	97
58) Fluorene	15.472	166	1241069	44.904	ng	99
59) 2,3,4,6-Tetrachlorophenol	15.042	232	374029	49.135	ng	99
60) Diethylphthalate	15.242	149	1397636	46.559	ng	99
61) 4-Chlorophenyl-phenyle...	15.466	204	608258	44.251	ng	97
62) 4-Nitroaniline	15.483	138	343690	47.854	ng	95
63) Azobenzene	15.760	77	1380940	53.725	ng	98
65) 4,6-Dinitro-2-methylph...	15.548	198	257102	49.248	ng	93
66) n-Nitrosodiphenylamine	15.678	169	1129376	44.222	ng	100
67) 4-Bromophenyl-phenylether	16.372	248	406044	44.083	ng	97
68) Hexachlorobenzene	16.495	284	473408	44.337	ng	98
69) Atrazine	16.654	200	449335	46.980	ng	98
70) Pentachlorophenol	16.848	266	659972	97.917	ng	97
71) Phenanthrene	17.248	178	2073388	45.067	ng	100
72) Anthracene	17.336	178	2127785	45.289	ng	100
73) Carbazole	17.619	167	2076151	46.915	ng	99
74) Di-n-butylphthalate	18.213	149	2628515	48.277	ng	100
75) Fluoranthene	19.330	202	2523020	45.975	ng	99
77) Benzidine	19.519	184	1302891	42.697	ng	99
78) Pyrene	19.707	202	2624941	45.167	ng	99
80) Butylbenzylphthalate	20.648	149	1275745	48.436	ng	97
81) Benzo(a)anthracene	21.624	228	2770305	46.979	ng	100
82) 3,3'-Dichlorobenzidine	21.536	252	727315	32.723	ng	100
83) Chrysene	21.695	228	2564073	46.430	ng	99
84) Bis(2-ethylhexyl)phtha...	21.560	149	1867112	48.156	ng	100
85) Di-n-octyl phthalate	22.842	149	3279123	49.169	ng	99
87) Indeno(1,2,3-cd)pyrene	28.836	276	3474659m	46.056	ng	
88) Benzo(b)fluoranthene	23.930	252	2767890	45.628	ng	99
89) Benzo(k)fluoranthene	24.007	252	2818197	46.426	ng	99
90) Benzo(a)pyrene	24.854	252	2706532	45.835	ng	99
91) Dibenzo(a,h)anthracene	28.936	278	2845641	46.156	ng	97
92) Benzo(g,h,i)perylene	30.036	276	2827568	46.657	ng	99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025520.D
Acq On : 20 Aug 2025 23:54
Operator : CG/JU
Sample : Q2819-17MS
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 21 01:39:50 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
38M-NMS

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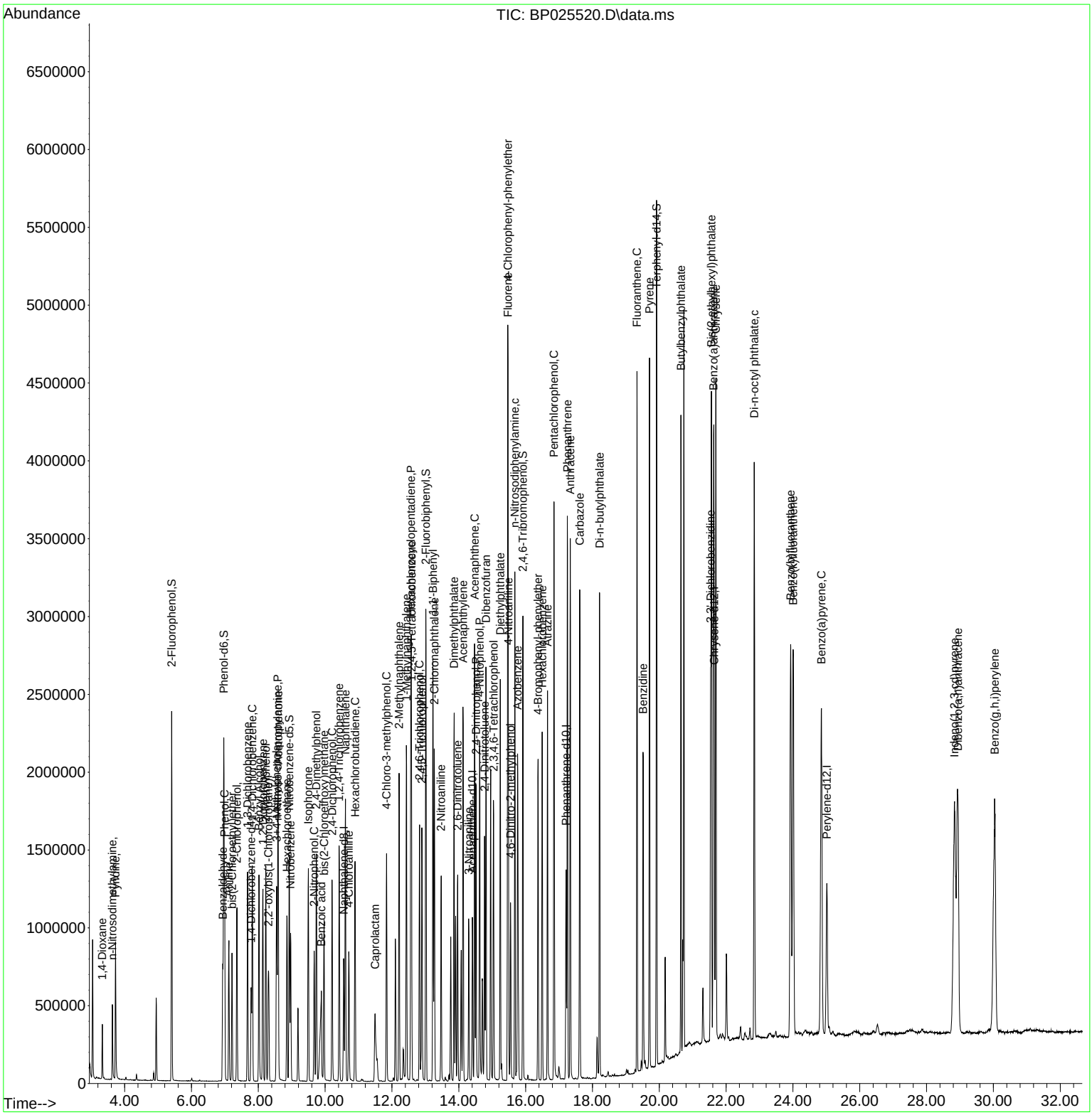
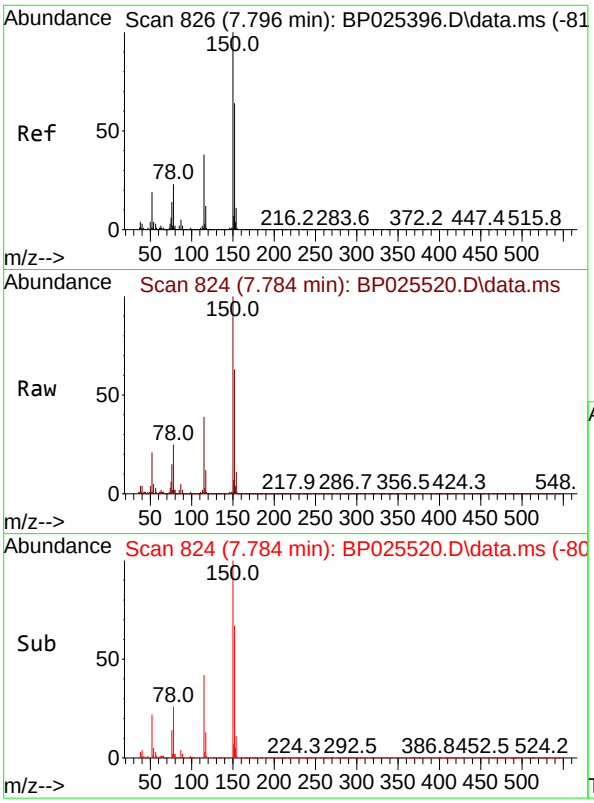
Supervised By :Jagrut Upadhyay 08/21/2025

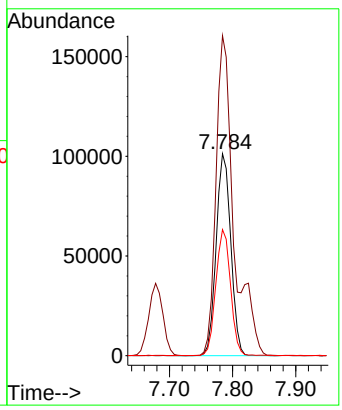




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.784 min Scan# 8
Delta R.T. -0.012 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:152 Resp: 16308

Ion	Ratio	Lower	Upper
152	100		
150	158.4	125.9	188.9
115	62.4	48.5	72.7



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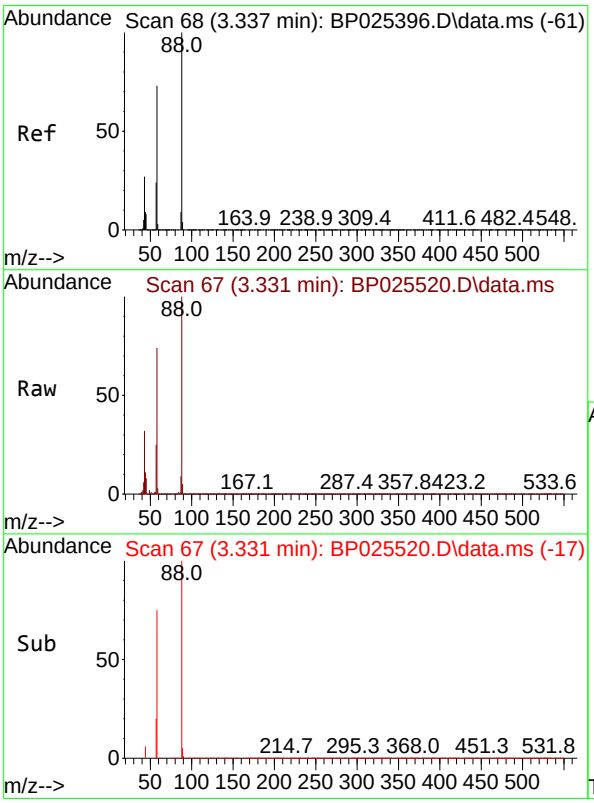
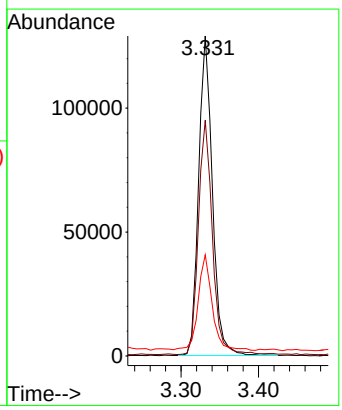
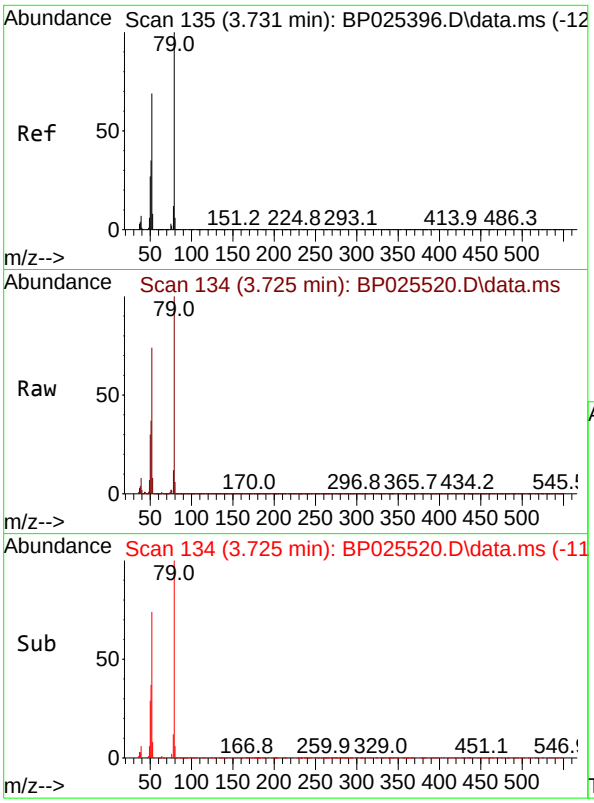


#2
1,4-Dioxane
Concen: 41.271 ng
RT: 3.331 min Scan# 67
Delta R.T. -0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion: 88 Resp: 158752

Ion	Ratio	Lower	Upper
88	100		
58	74.8	59.2	88.8
43	30.3	21.7	32.5

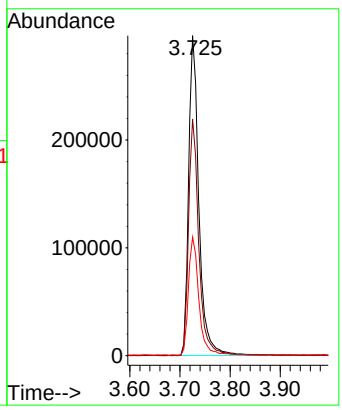




#3
Pyridine
Concen: 40.286 ng
RT: 3.725 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion: 79 Resp: 42415

Ion	Ratio	Lower	Upper
79	100		
52	73.9	55.5	83.3
51	37.1	28.3	42.5



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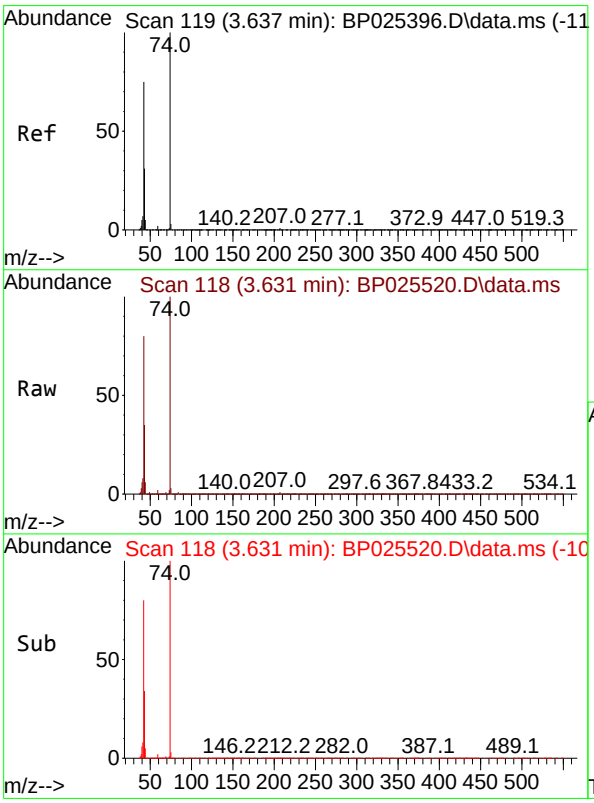
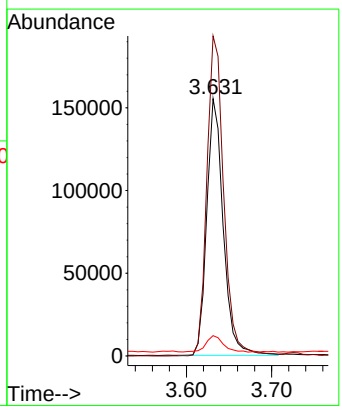
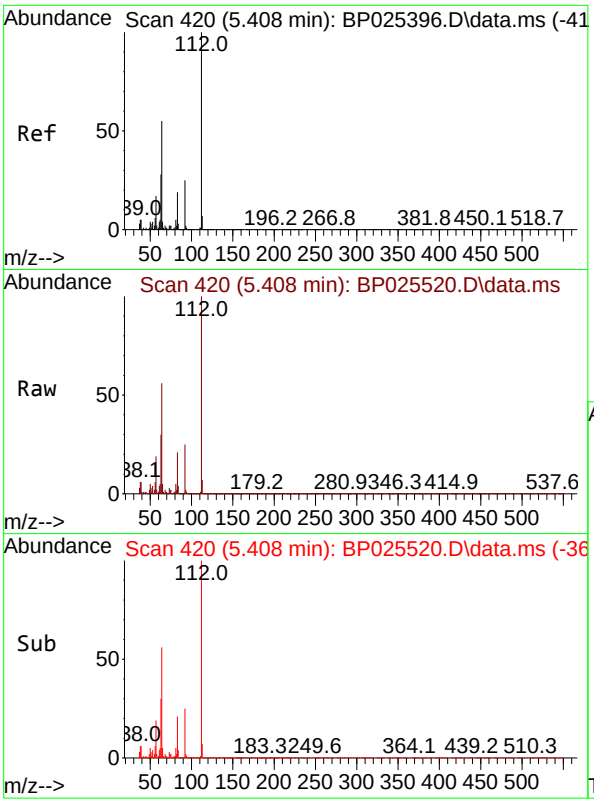


#4
n-Nitrosodimethylamine
Concen: 47.944 ng
RT: 3.631 min Scan# 118
Delta R.T. -0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion: 42 Resp: 208103

Ion	Ratio	Lower	Upper
42	100		
74	124.4	107.0	160.4
44	7.9	6.2	9.4

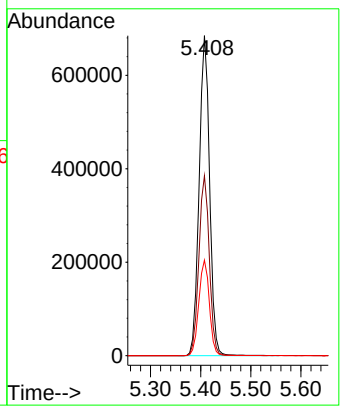




#5
2-Fluorophenol
Concen: 100.727 ng
RT: 5.408 min Scan# 4
Delta R.T. -0.000 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:112 Resp: 98917

Ion	Ratio	Lower	Upper
112	100		
64	56.2	43.8	65.8
63	29.8	22.7	34.1



Instrument :
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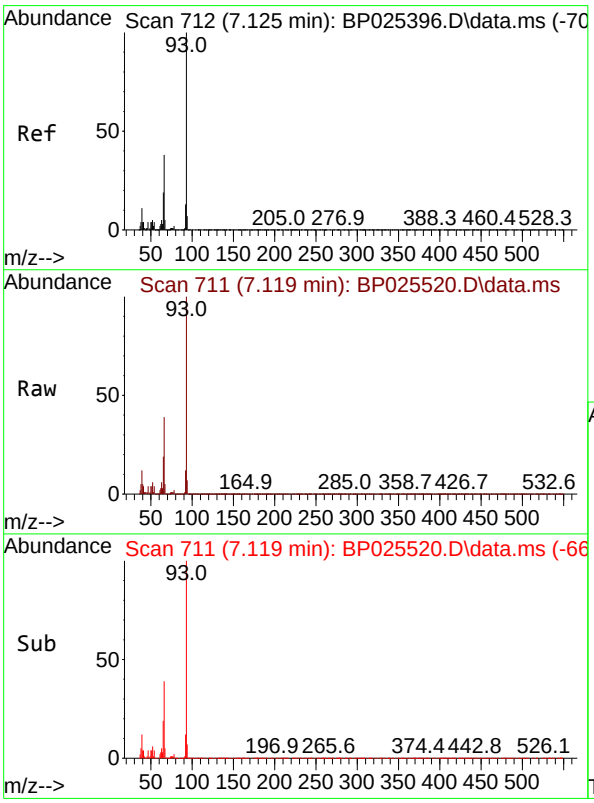
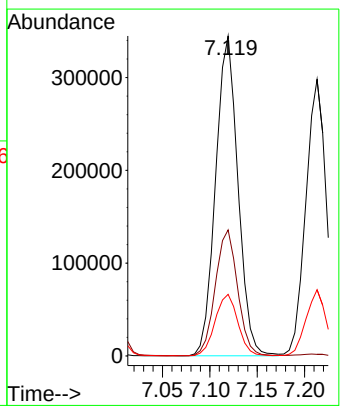
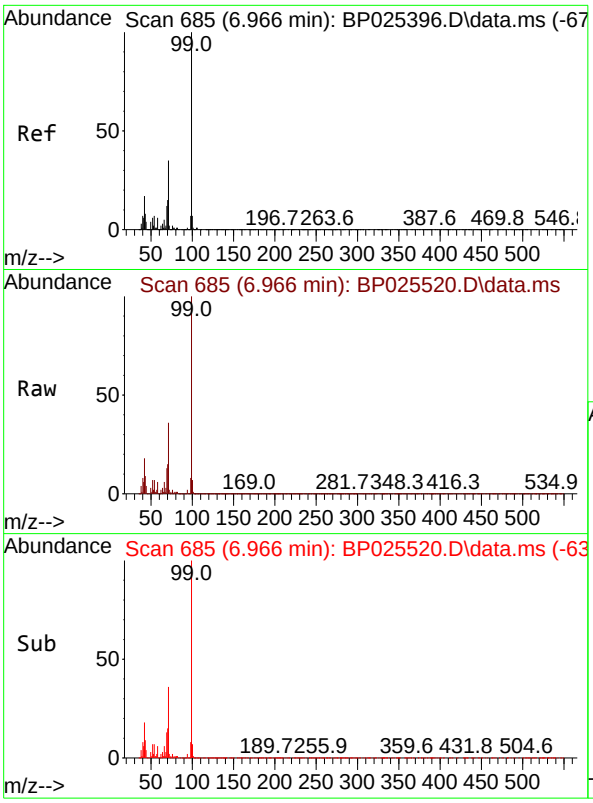


#6
Aniline
Concen: 33.405 ng
RT: 7.119 min Scan# 711
Delta R.T. -0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion: 93 Resp: 566664

Ion	Ratio	Lower	Upper
93	100		
66	39.4	30.4	45.6
65	19.2	15.3	22.9

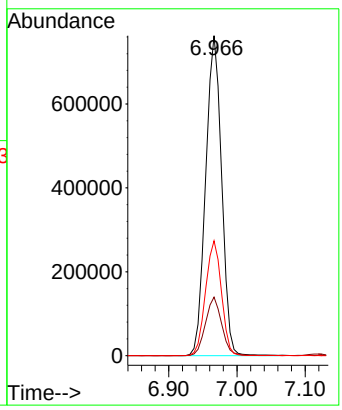




#7
Phenol-d6
Concen: 98.550 ng
RT: 6.966 min Scan# 6
Delta R.T. -0.000 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion: 99 Resp: 124078

Ion	Ratio	Lower	Upper
99	100		
42	18.3	13.7	20.5
71	35.9	28.2	42.4



Instrument :
BNA_P
ClientSampleId :
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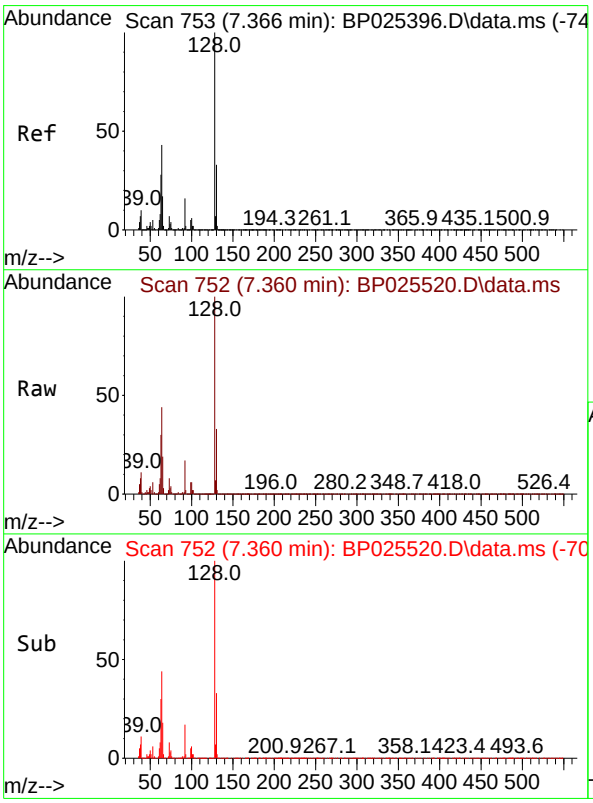
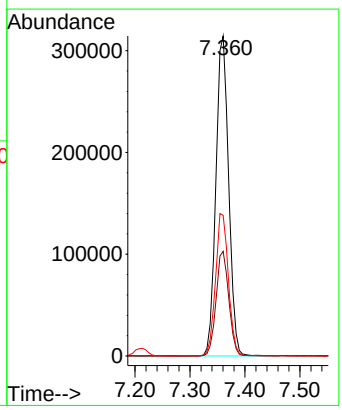
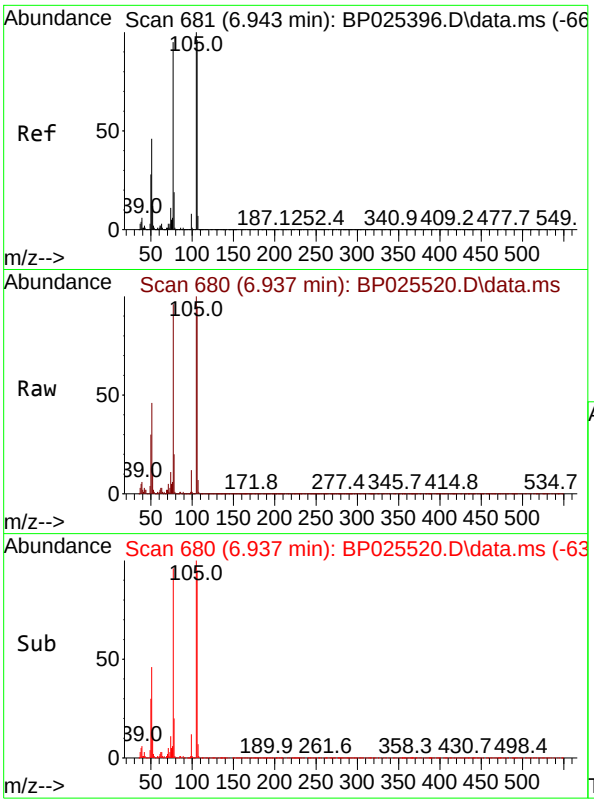


#8
2-Chlorophenol
Concen: 45.782 ng
RT: 7.360 min Scan# 752
Delta R.T. -0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:128 Resp: 507351

Ion	Ratio	Lower	Upper
128	100		
130	32.7	12.6	52.6
64	43.9	23.4	63.4

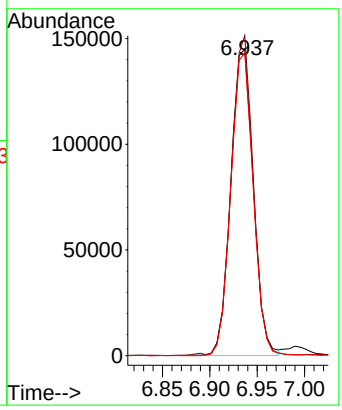




#9
Benzaldehyde
Concen: 27.344 ng
RT: 6.937 min Scan# 6
Delta R.T. -0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion: 77 Resp: 24120

Ion	Ratio	Lower	Upper
77	100		
105	104.4	84.8	124.8
106	98.9	80.5	120.5



Instrument :
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ClientSampleId :
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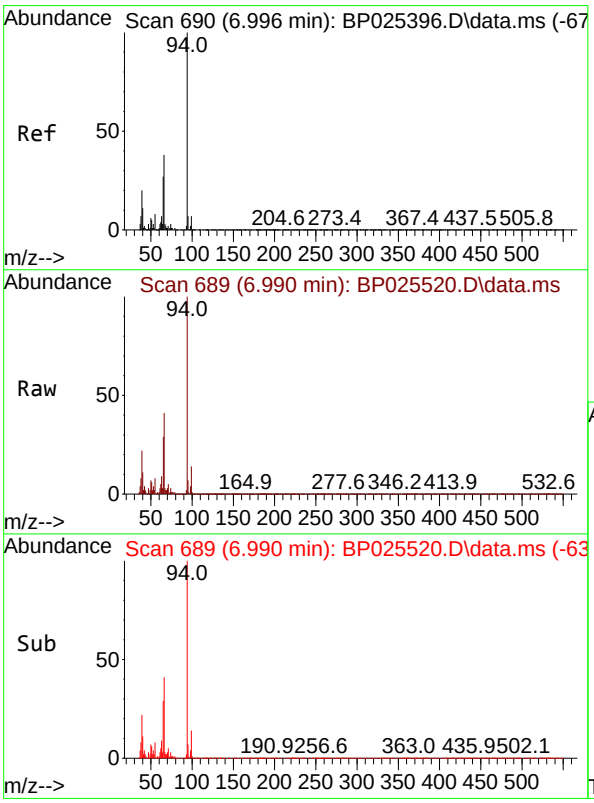
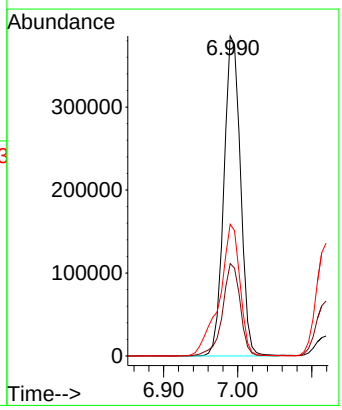
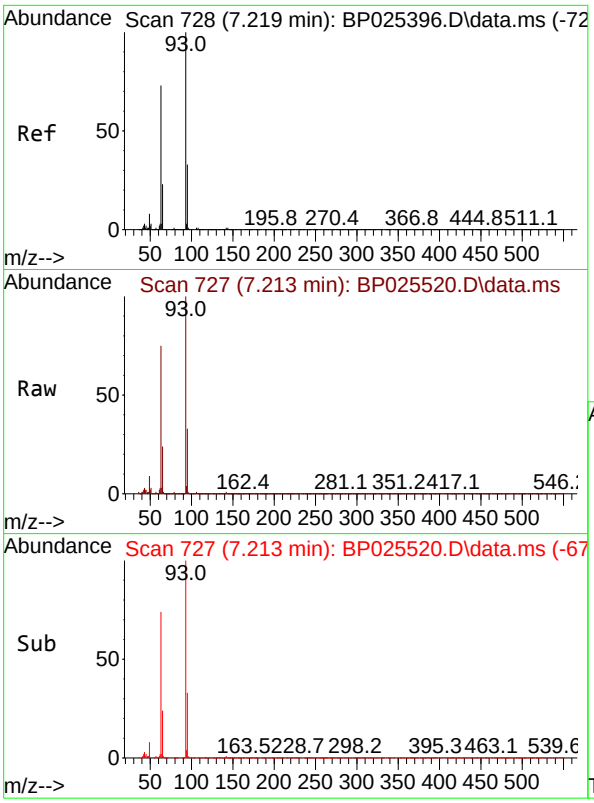


#10
Phenol
Concen: 45.350 ng
RT: 6.990 min Scan# 689
Delta R.T. -0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion: 94 Resp: 599139

Ion	Ratio	Lower	Upper
94	100		
65	28.8	6.8	46.8
66	41.1	18.2	58.2

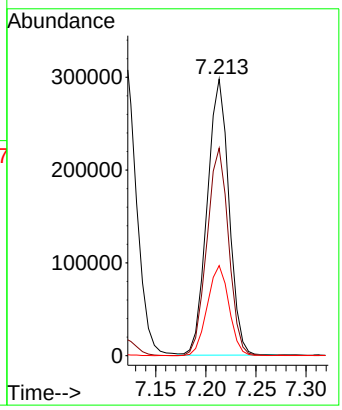




#11
bis(2-Chloroethyl)ether
Concen: 43.648 ng
RT: 7.213 min Scan# 7
Delta R.T. -0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion: 93 Resp: 44945

Ion	Ratio	Lower	Upper
93	100		
63	75.0	52.6	92.6
95	32.6	12.7	52.7



Instrument :
BNA_P
ClientSampleId :
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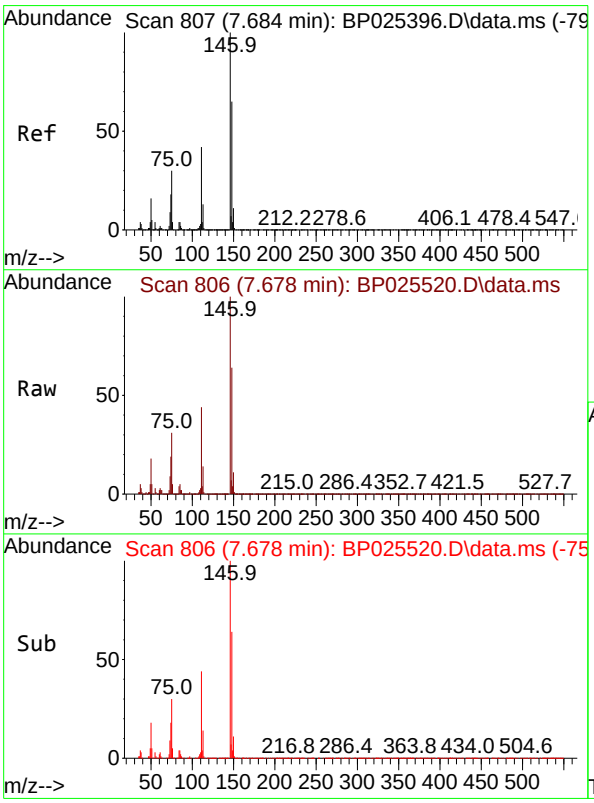
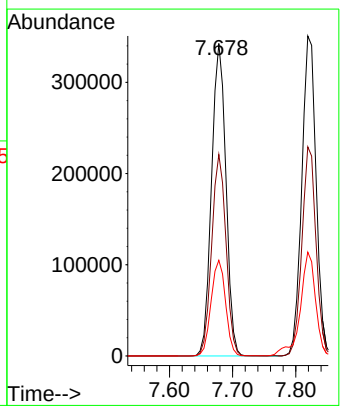
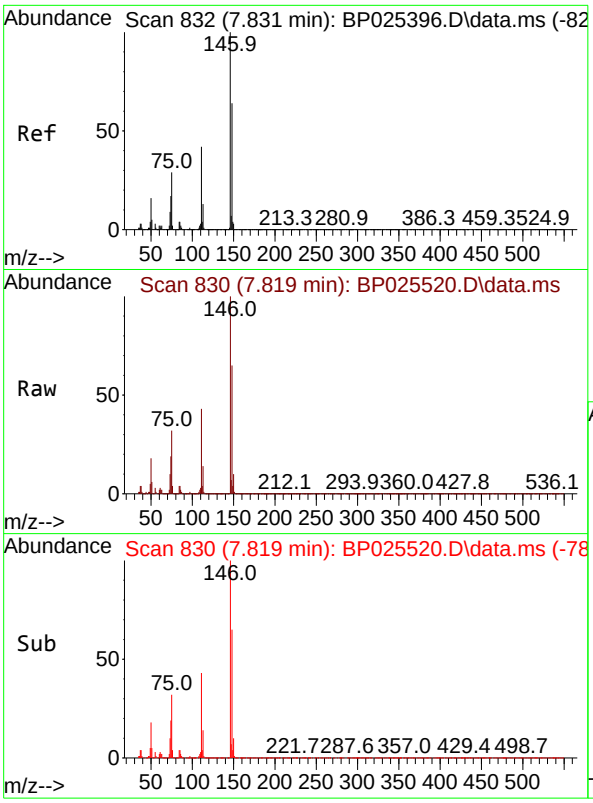


#12
1,3-Dichlorobenzene
Concen: 44.230 ng
RT: 7.678 min Scan# 806
Delta R.T. -0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:146 Resp: 540474

Ion	Ratio	Lower	Upper
146	100		
148	64.5	51.9	77.9
75	30.6	23.7	35.5

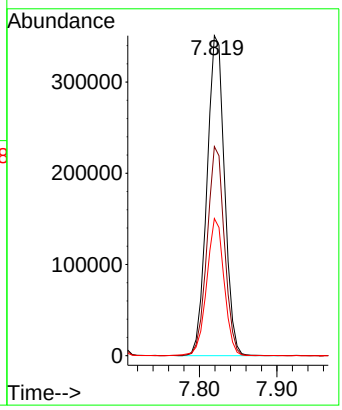




#13
1,4-Dichlorobenzene
Concen: 44.184 ng
RT: 7.819 min Scan# 8
Delta R.T. -0.012 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:146 Resp: 55184

Ion	Ratio	Lower	Upper
146	100		
148	65.3	51.6	77.4
111	42.9	33.4	50.0



Instrument :
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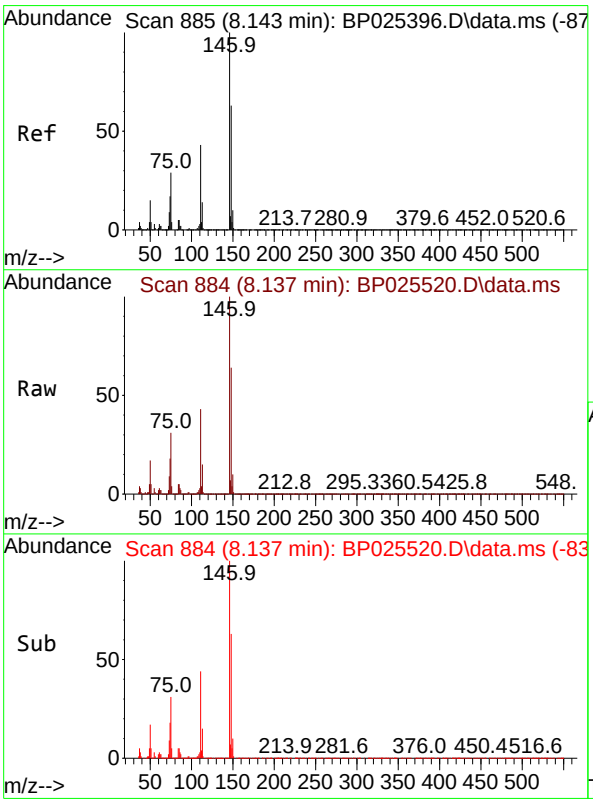
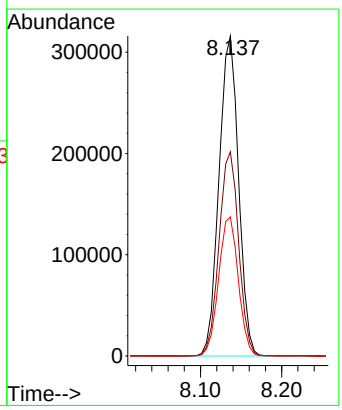
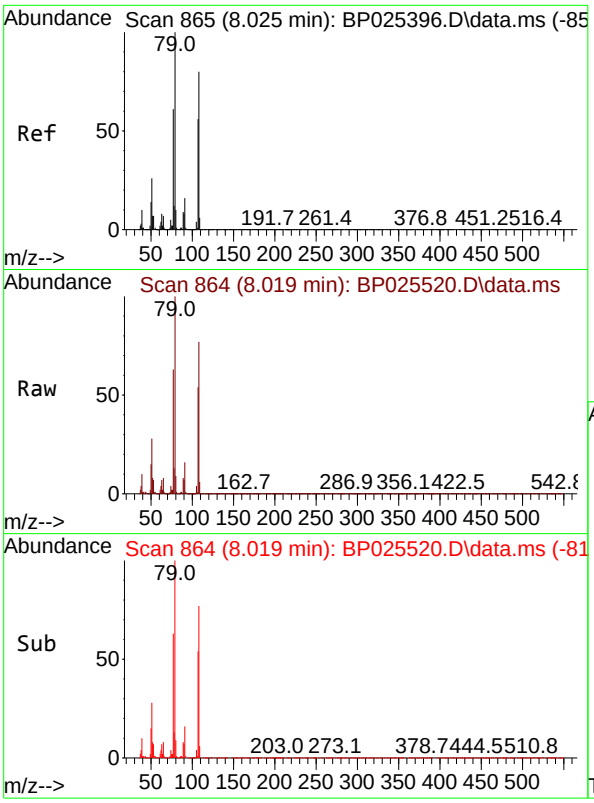


#14
1,2-Dichlorobenzene
Concen: 43.766 ng
RT: 8.137 min Scan# 884
Delta R.T. -0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:146 Resp: 529135

Ion	Ratio	Lower	Upper
146	100		
148	63.8	50.4	75.6
111	43.5	34.5	51.7





#15
Benzyl Alcohol
Concen: 44.558 ng
RT: 8.019 min Scan# 8
Delta R.T. -0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion: 79 Resp: 44575

Ion	Ratio	Lower	Upper
79	100		
108	77.4	63.8	95.6
77	63.1	49.0	73.4

Instrument :
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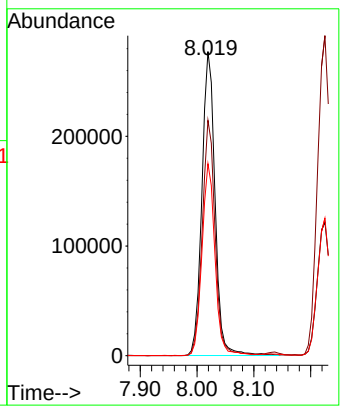
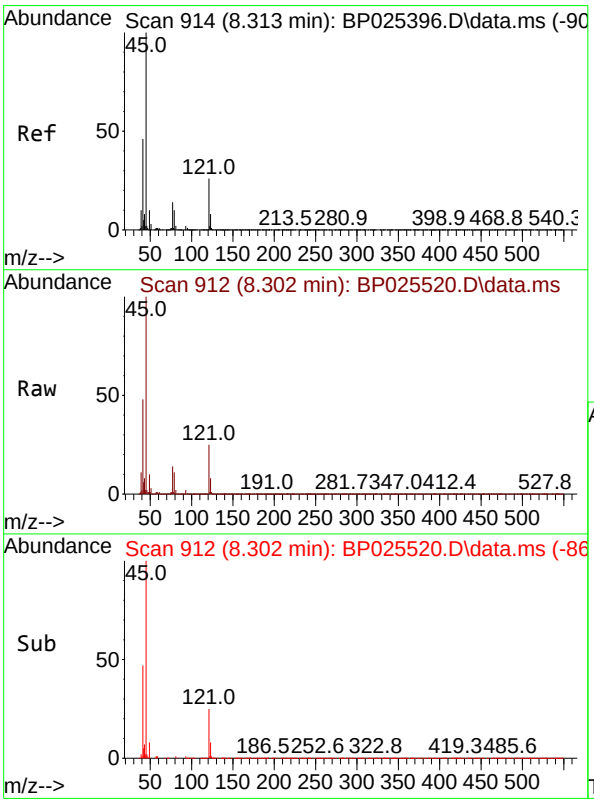
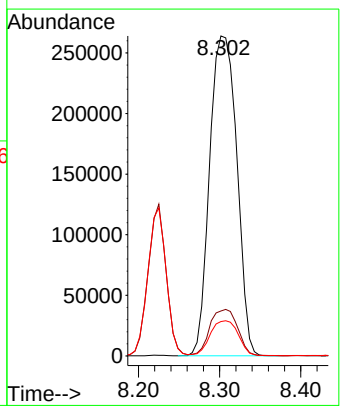


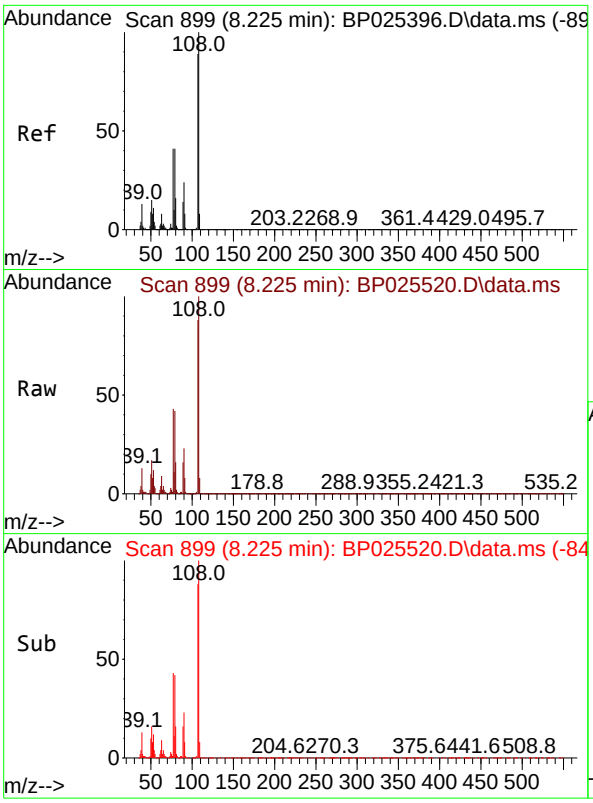


#16
2,2'-oxybis(1-Chloropropane)
Concen: 44.515 ng
RT: 8.302 min Scan# 912
Delta R.T. -0.012 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion: 45 Resp: 614047

Ion	Ratio	Lower	Upper
45	100		
77	14.0	0.0	35.3
79	10.8	0.0	31.8

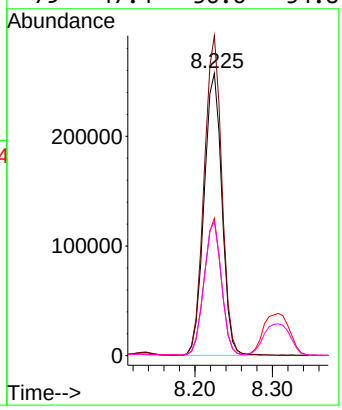




#17
2-Methylphenol
Concen: 44.779 ng
RT: 8.225 min Scan# 8
Delta R.T. -0.000 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:107 Resp: 41087

Ion	Ratio	Lower	Upper
107	100		
108	113.3	89.4	134.0
77	48.7	36.3	54.5
79	47.4	36.6	54.8



Instrument :
BNA_P
ClientSampleId :
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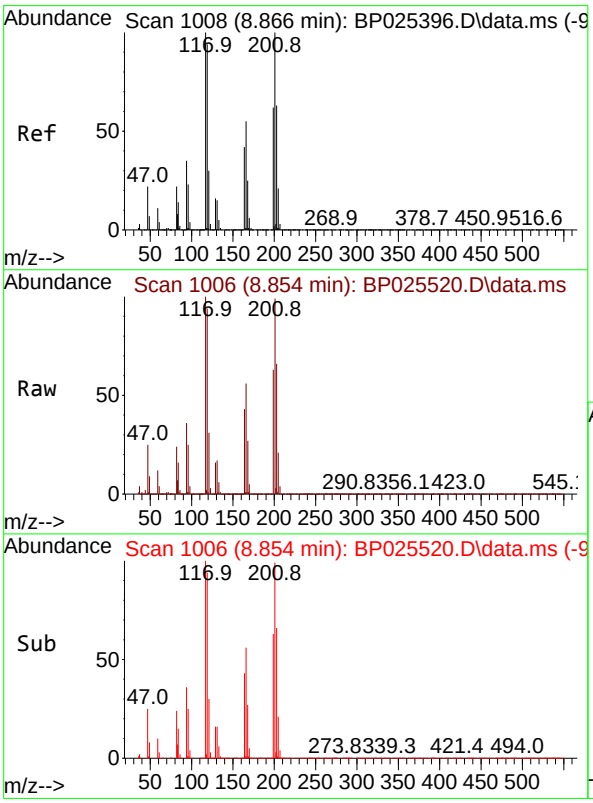
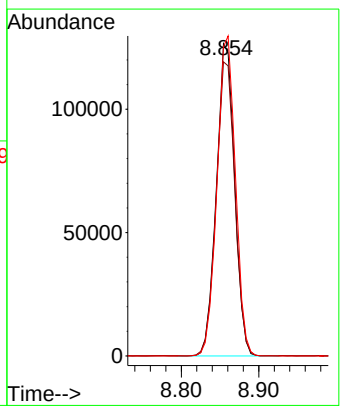
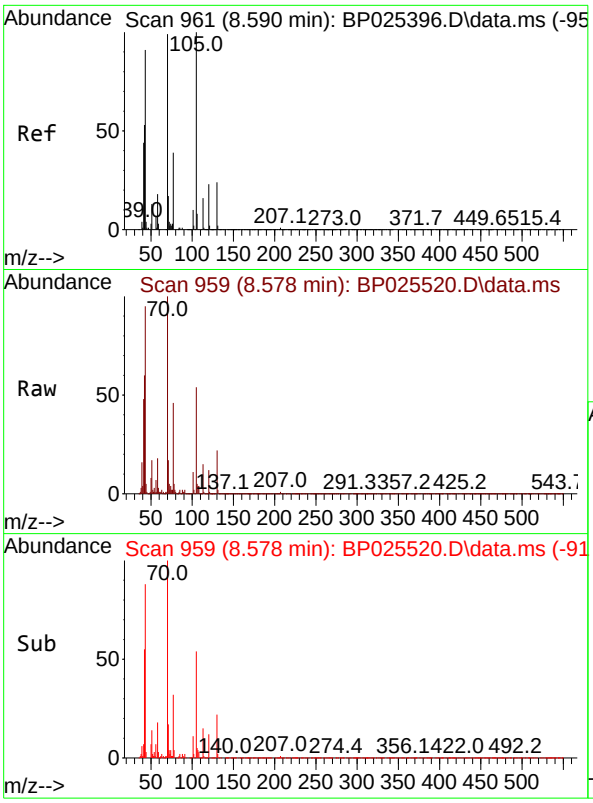


#18
Hexachloroethane
Concen: 45.254 ng
RT: 8.854 min Scan# 1006
Delta R.T. -0.012 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:117 Resp: 207815

Ion	Ratio	Lower	Upper
117	100		
119	94.2	75.1	112.7
201	99.0	80.1	120.1

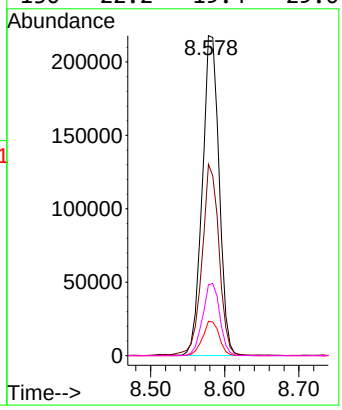




#19
n-Nitroso-di-n-propylamine
Concen: 41.102 ng
RT: 8.578 min Scan# 9
Delta R.T. -0.012 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion: 70 Resp: 34278

Ion	Ratio	Lower	Upper
70	100		
42	59.8	43.8	65.6
101	10.7	8.5	12.7
130	22.2	19.4	29.0



Instrument :
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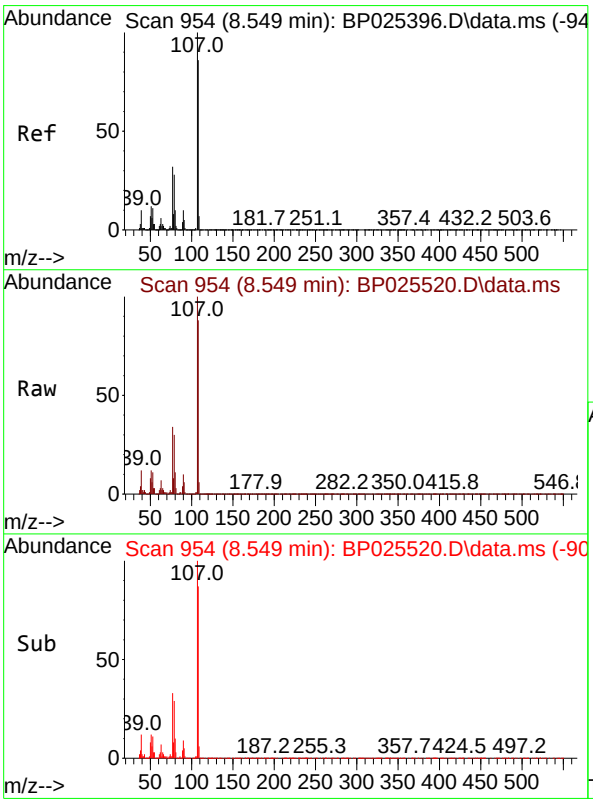
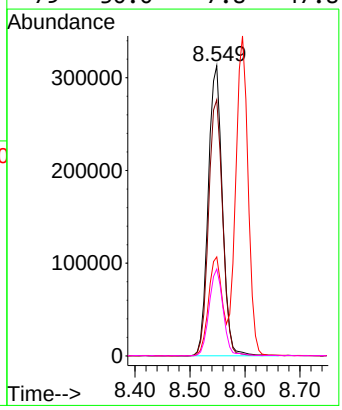
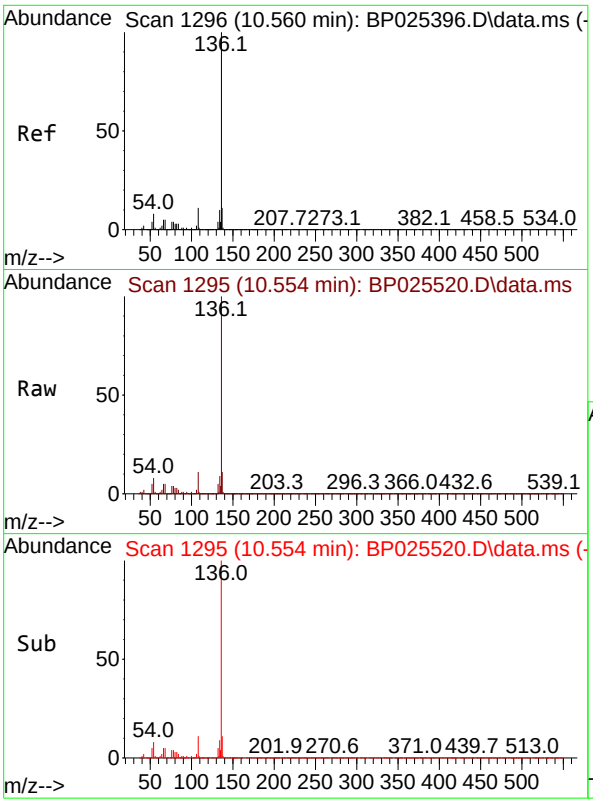


#20
3+4-Methylphenols
Concen: 44.044 ng
RT: 8.549 min Scan# 954
Delta R.T. -0.000 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:107 Resp: 560181

Ion	Ratio	Lower	Upper
107	100		
108	88.3	66.3	106.3
77	34.1	12.3	52.3
79	30.0	7.8	47.8

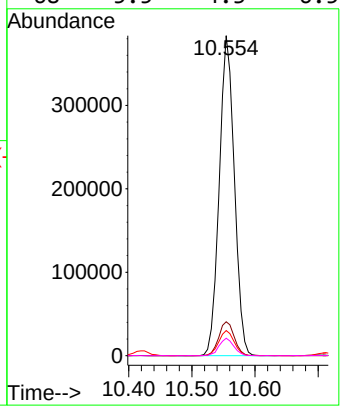




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.554 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:136 Resp: 63534

Ion	Ratio	Lower	Upper
136	100		
137	10.6	9.2	13.8
54	7.8	6.0	9.0
68	5.5	4.3	6.5



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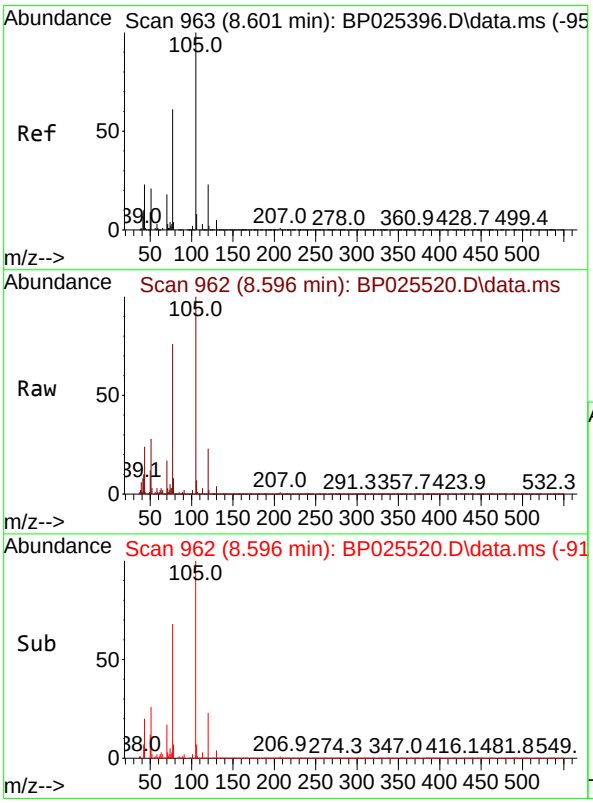
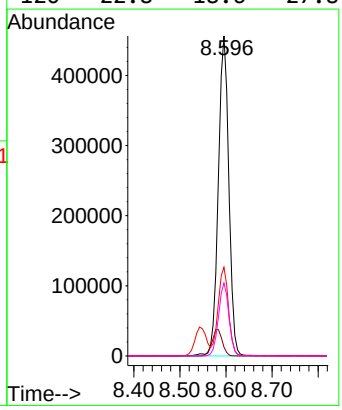
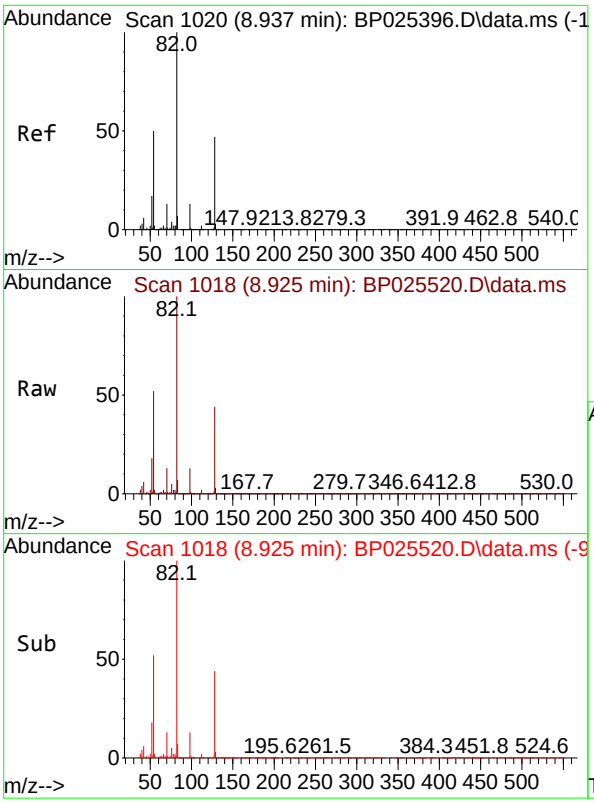


#22
Acetophenone
Concen: 45.276 ng
RT: 8.596 min Scan# 962
Delta R.T. -0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:105 Resp: 721397

Ion	Ratio	Lower	Upper
105	100		
71	2.8	2.6	4.0
51	27.7	20.6	30.8
120	22.8	18.6	27.8

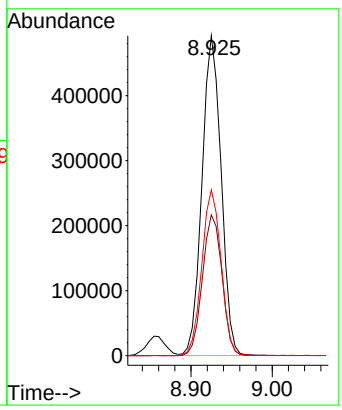




#23
Nitrobenzene-d5
Concen: 64.078 ng
RT: 8.925 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion: 82 Resp: 80481

Ion	Ratio	Lower	Upper
82	100		
128	44.0	37.7	56.5
54	51.9	39.8	59.6



Instrument :
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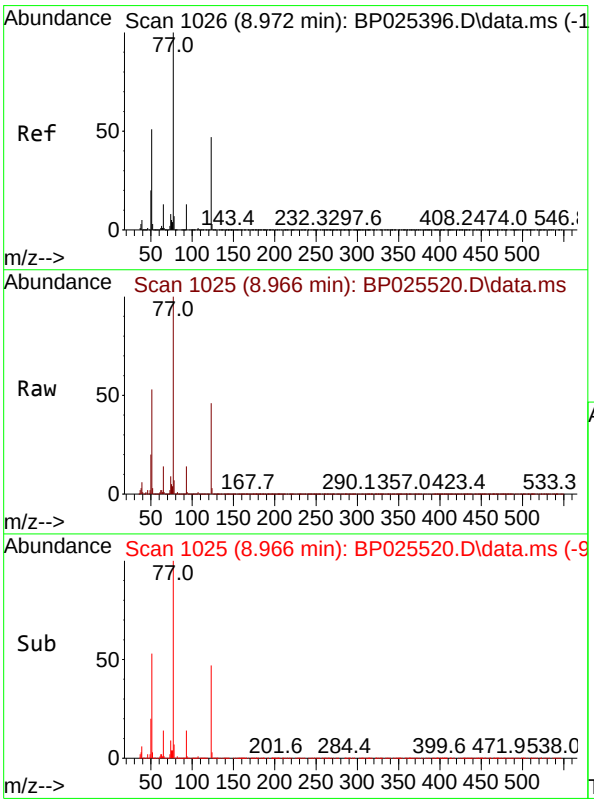
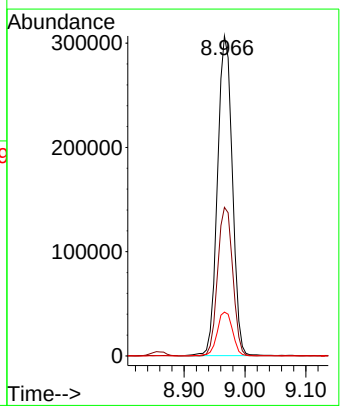
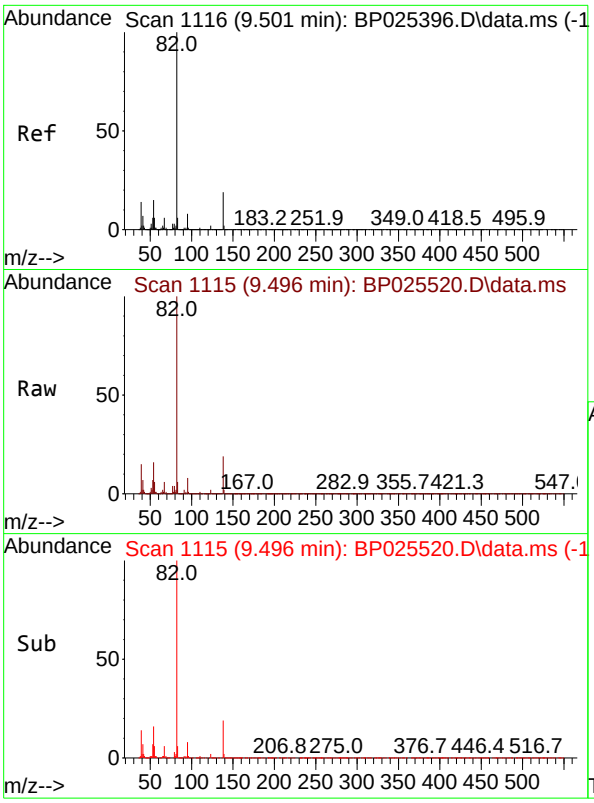


#24
Nitrobenzene
Concen: 46.231 ng
RT: 8.966 min Scan# 1025
Delta R.T. -0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion: 77 Resp: 518939

Ion	Ratio	Lower	Upper
77	100		
123	46.5	38.6	58.0
65	13.7	10.6	15.8

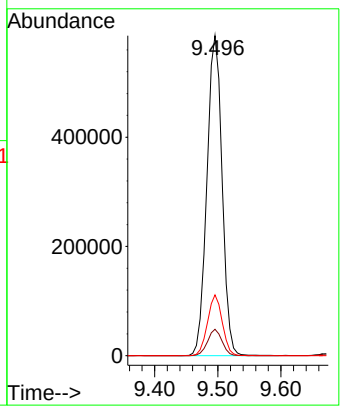




#25
Isophorone
Concen: 43.967 ng
RT: 9.496 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion: 82 Resp: 97728

Ion	Ratio	Lower	Upper
82	100		
95	8.3	6.4	9.6
138	19.0	15.4	23.0



Instrument :
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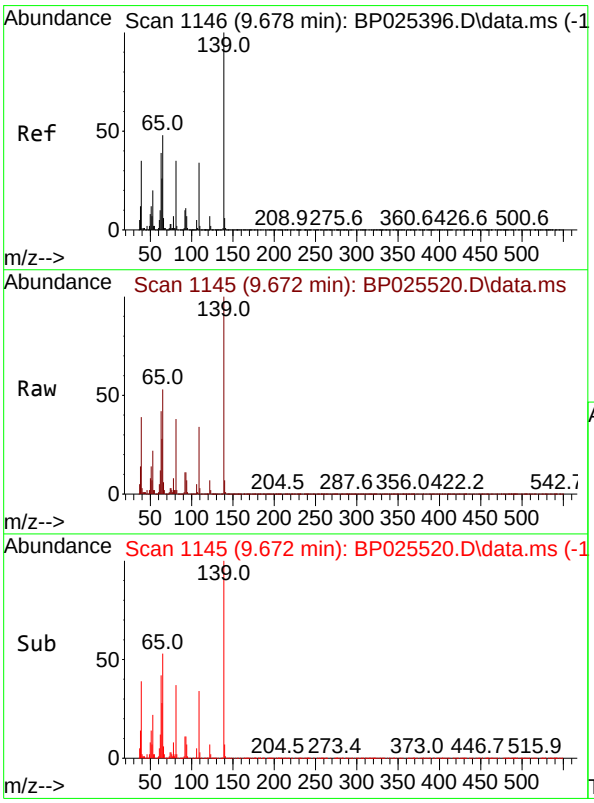
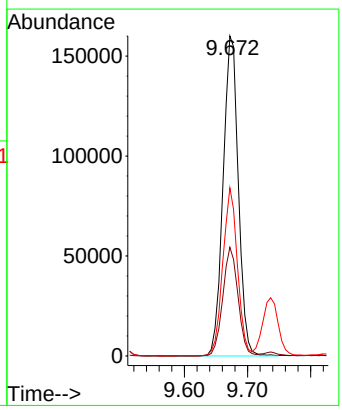
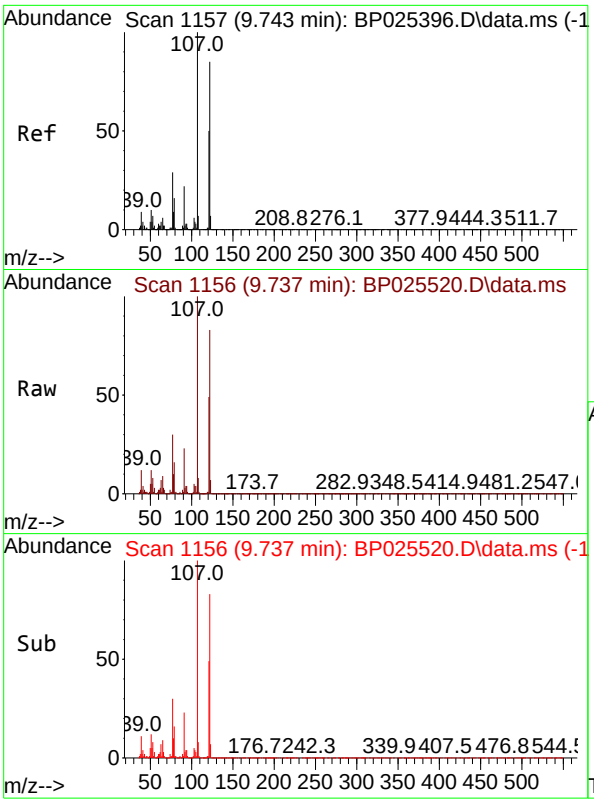


#26
2-Nitrophenol
Concen: 46.582 ng
RT: 9.672 min Scan# 1145
Delta R.T. -0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:139 Resp: 268342

Ion	Ratio	Lower	Upper
139	100		
109	33.9	26.9	40.3
65	52.6	38.3	57.5

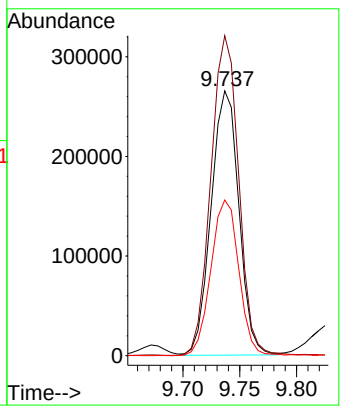




#27
2,4-Dimethylphenol
Concen: 45.537 ng
RT: 9.737 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:122 Resp: 45111

Ion	Ratio	Lower	Upper
122	100		
107	120.8	93.7	140.5
121	58.8	46.6	69.8



Instrument :
BNA_P
ClientSampleId :
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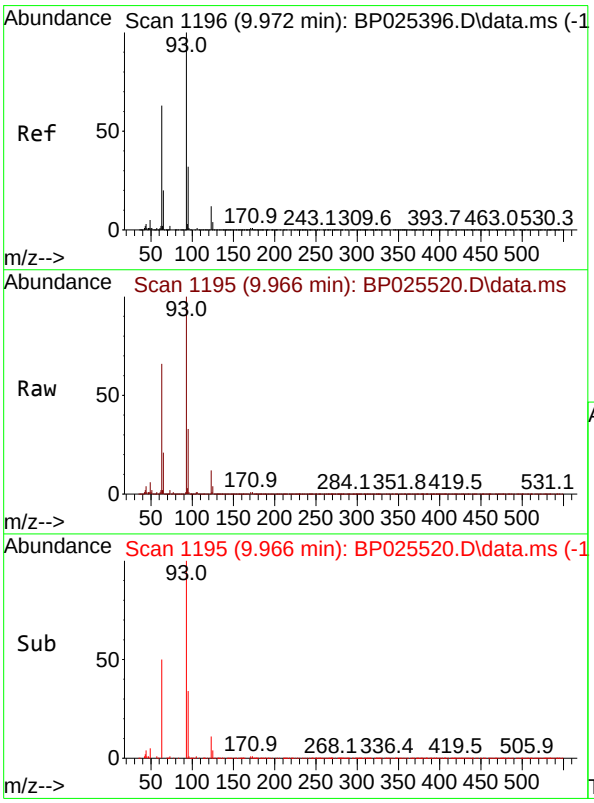
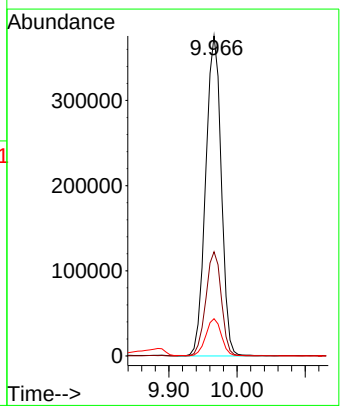
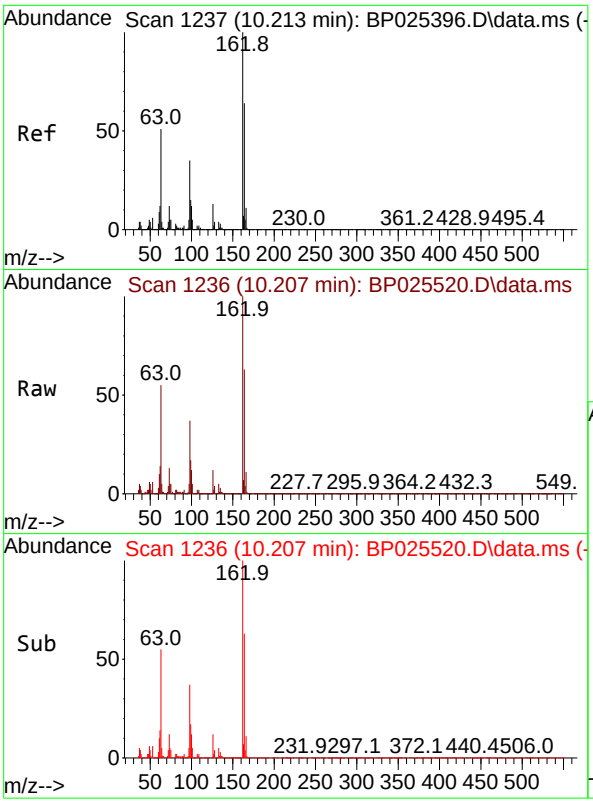


#28
bis(2-Chloroethoxy)methane
Concen: 44.529 ng
RT: 9.966 min Scan# 1195
Delta R.T. -0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion: 93 Resp: 598293

Ion	Ratio	Lower	Upper
93	100		
95	32.5	25.4	38.0
123	11.7	9.4	14.0

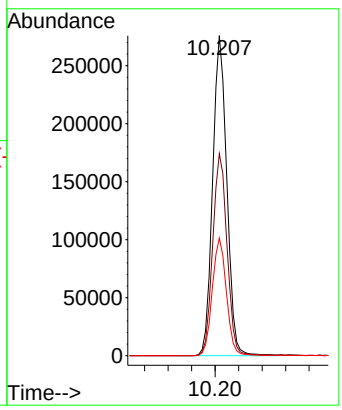




#29
2,4-Dichlorophenol
Concen: 46.875 ng
RT: 10.207 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:162 Resp: 46130

Ion	Ratio	Lower	Upper
162	100		
164	63.1	44.4	84.4
98	36.7	14.9	54.9



Instrument :
BNA_P
ClientSampleId :
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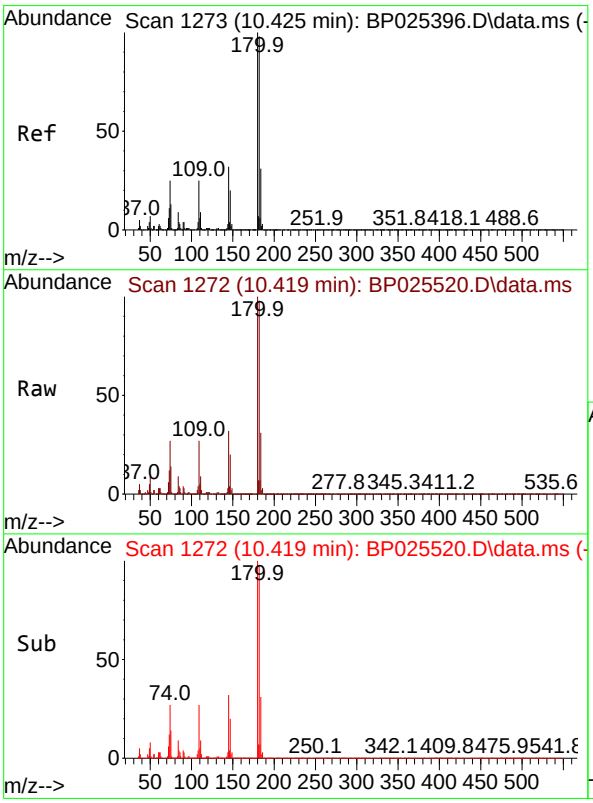
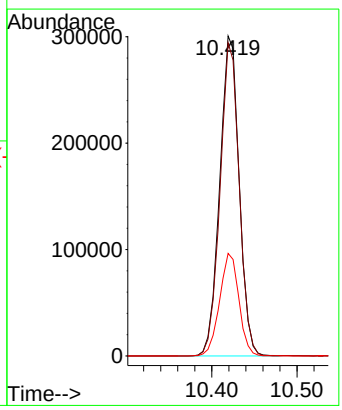
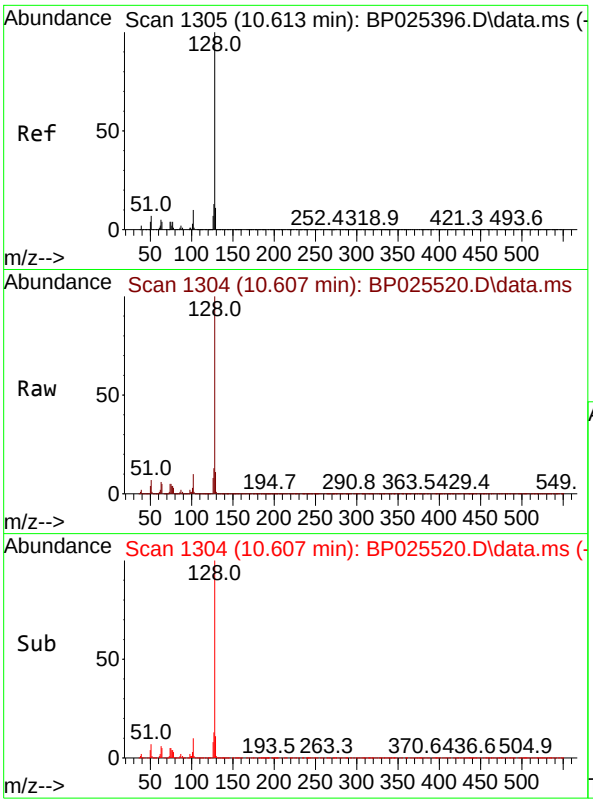


#30
1,2,4-Trichlorobenzene
Concen: 44.136 ng
RT: 10.419 min Scan# 1272
Delta R.T. -0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:180 Resp: 476140

Ion	Ratio	Lower	Upper
180	100		
182	97.8	78.0	117.0
145	32.0	25.9	38.9

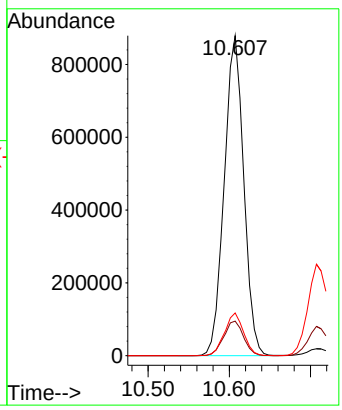




#31
Naphthalene
Concen: 44.371 ng
RT: 10.607 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:128 Resp: 146525

Ion	Ratio	Lower	Upper
128	100		
129	10.8	8.6	13.0
127	13.4	10.7	16.1



Instrument :
BNA_P
ClientSampleId :
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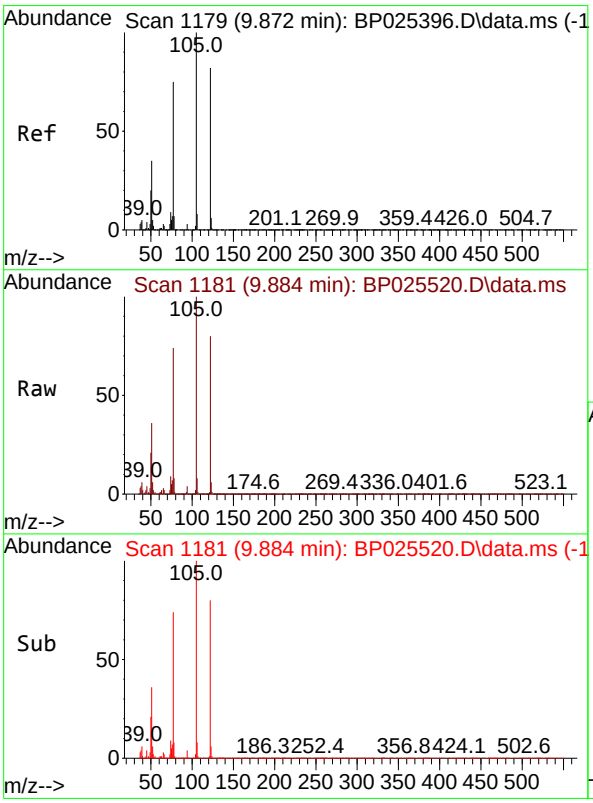
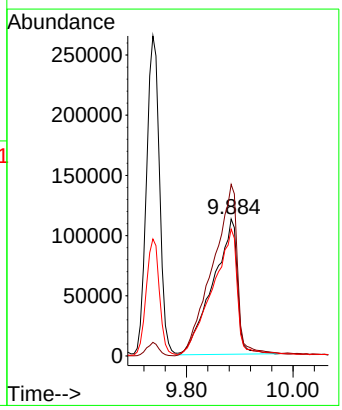
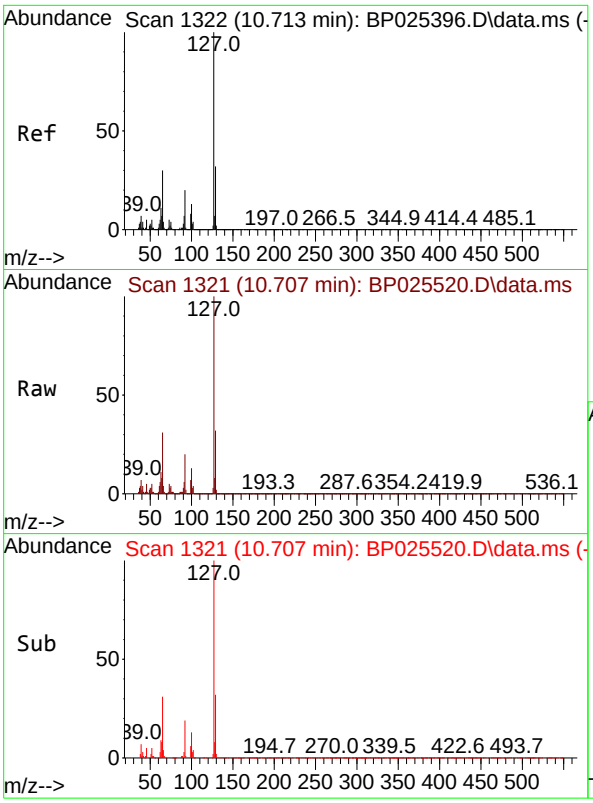


#32
Benzoic acid
Concen: 48.944 ng
RT: 9.884 min Scan# 1181
Delta R.T. 0.012 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:122 Resp: 357969

Ion	Ratio	Lower	Upper
122	100		
105	125.3	100.6	140.6
77	92.7	71.5	111.5

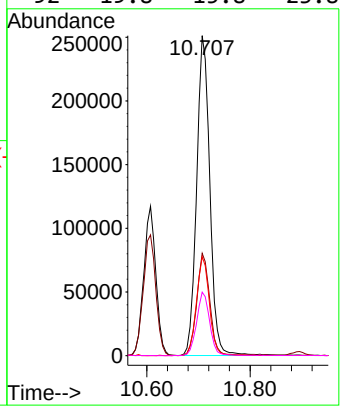




#33
4-Chloroaniline
Concen: 30.500 ng
RT: 10.707 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:127 Resp: 44488

Ion	Ratio	Lower	Upper
127	100		
129	32.0	25.4	38.2
65	30.9	23.8	35.6
92	19.8	15.8	23.8



Instrument :
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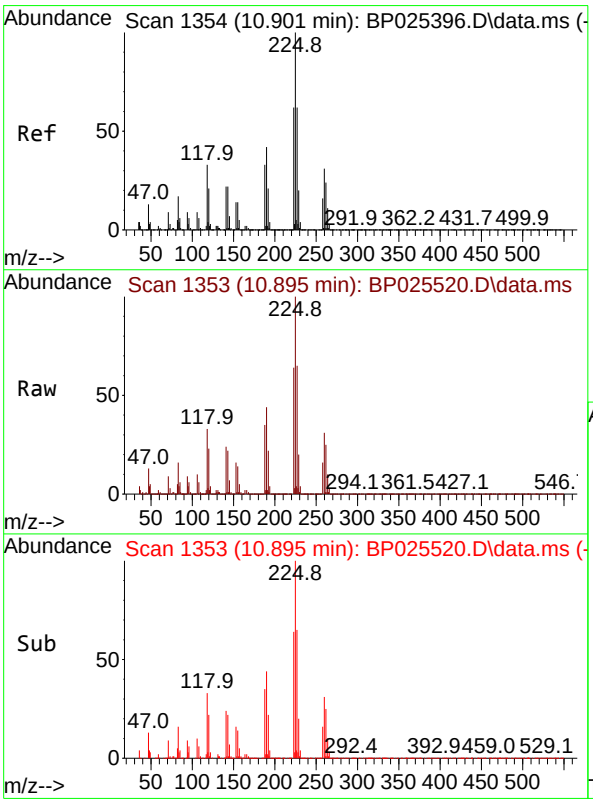
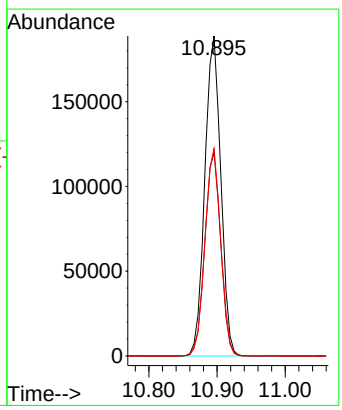
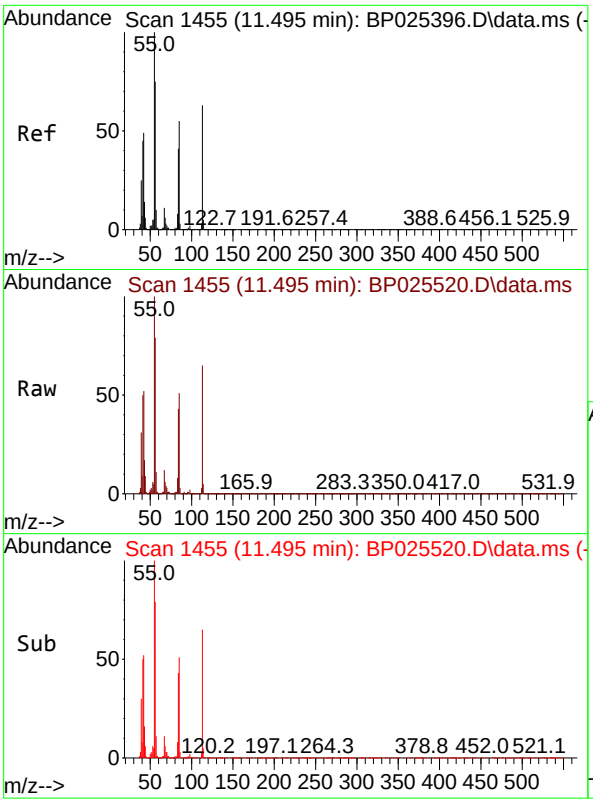


#34
Hexachlorobutadiene
Concen: 45.819 ng
RT: 10.895 min Scan# 1353
Delta R.T. -0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:225 Resp: 307838

Ion	Ratio	Lower	Upper
225	100		
223	63.6	50.0	75.0
227	64.8	49.7	74.5





#35
Caprolactam
Concen: 46.140 ng
RT: 11.495 min Scan# 14
Delta R.T. -0.000 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:113 Resp: 16650

Ion	Ratio	Lower	Upper
113	100		
55	154.7	140.0	180.0
56	121.7	100.0	140.0

Instrument :
BNA_P
ClientSampleId :
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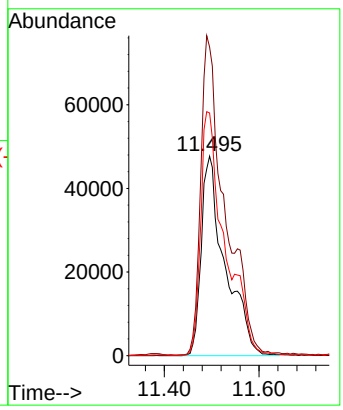
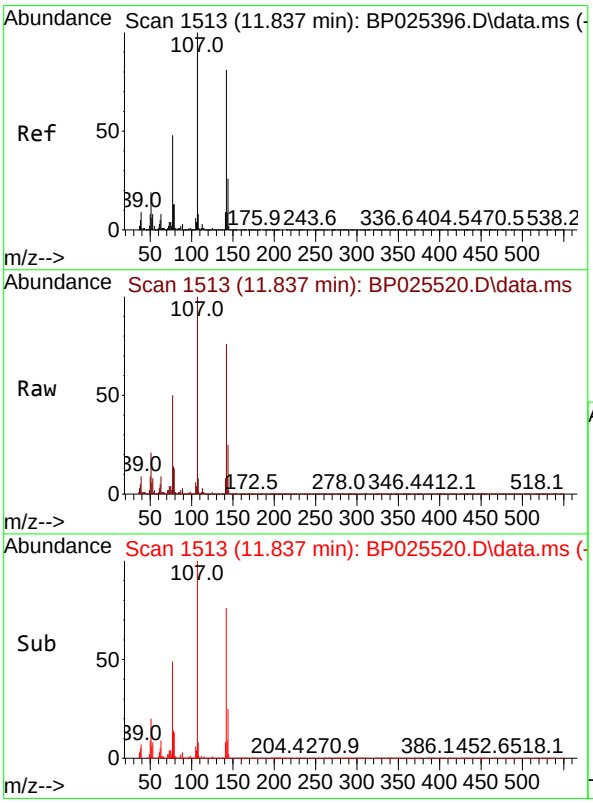
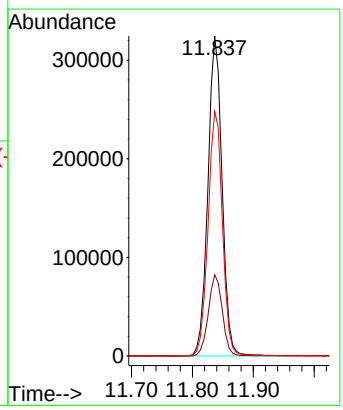


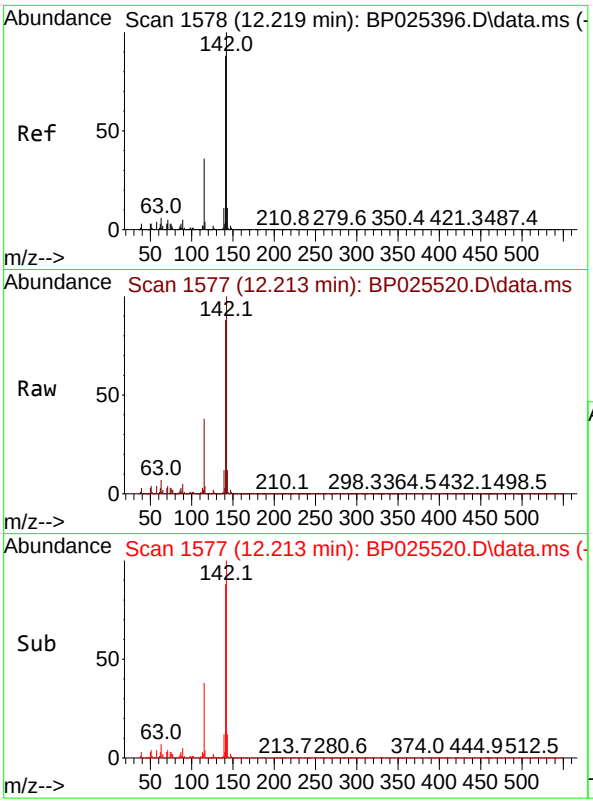


#36
4-Chloro-3-methylphenol
Concen: 46.451 ng
RT: 11.837 min Scan# 1513
Delta R.T. -0.000 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:107 Resp: 524543

Ion	Ratio	Lower	Upper
107	100		
144	25.4	21.0	31.4
142	76.4	64.6	97.0

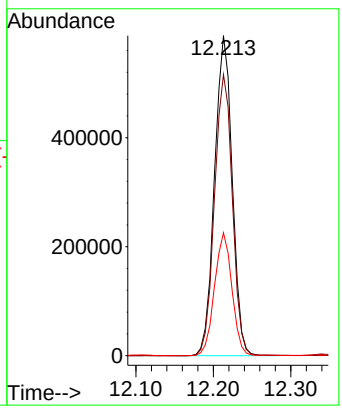




#37
2-Methylnaphthalene
Concen: 43.326 ng
RT: 12.213 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:142 Resp: 93107

Ion	Ratio	Lower	Upper
142	100		
141	87.9	70.3	105.5
115	38.4	28.9	43.3



Instrument :
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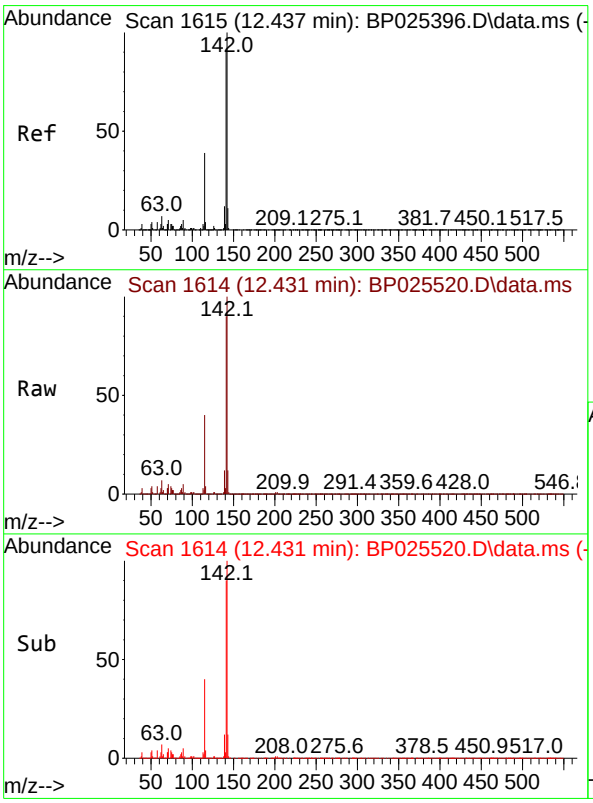
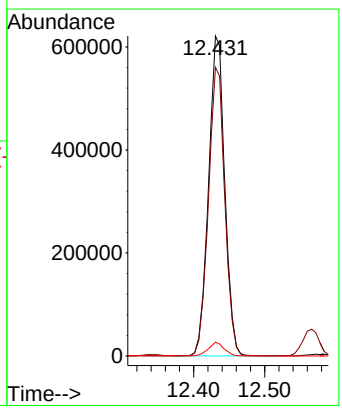
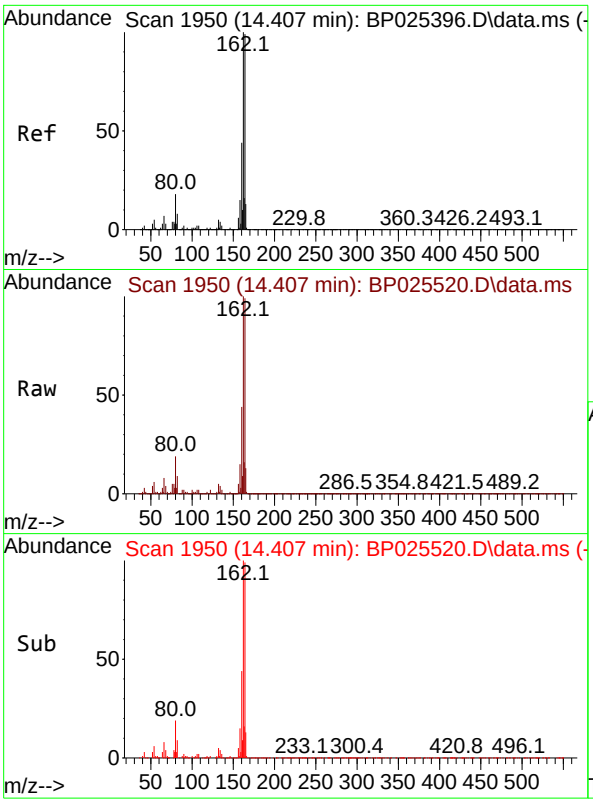


#38
1-Methylnaphthalene
Concen: 42.991 ng
RT: 12.431 min Scan# 1614
Delta R.T. -0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:142 Resp: 982511

Ion	Ratio	Lower	Upper
142	100		
141	90.2	73.1	109.7
116	4.3	3.2	4.8

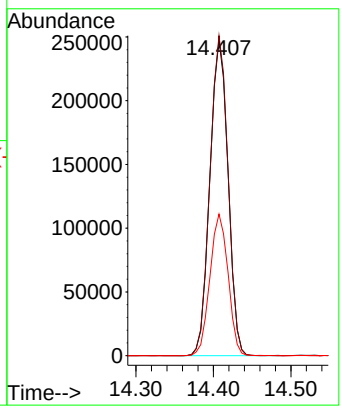




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.407 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:164 Resp: 40343

Ion	Ratio	Lower	Upper
164	100		
162	101.3	81.0	121.6
160	44.8	35.4	53.2



Instrument :
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ClientSampleId :
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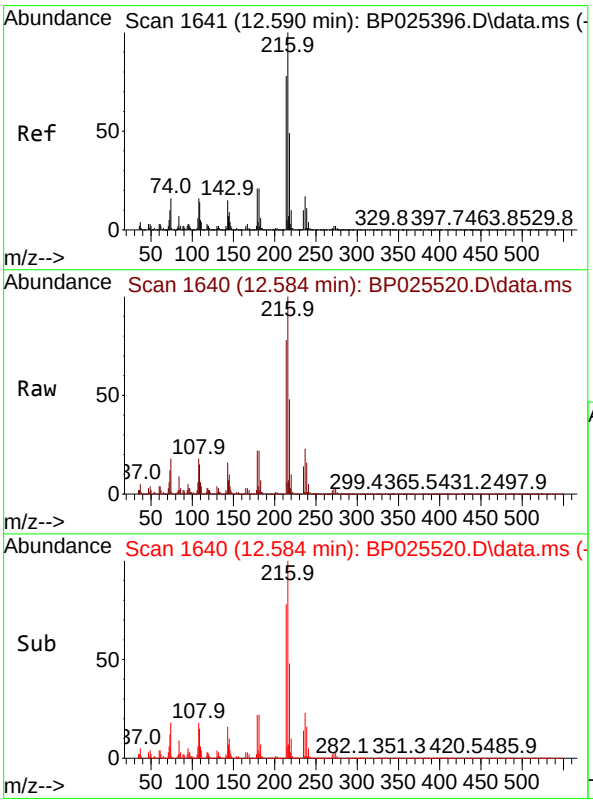
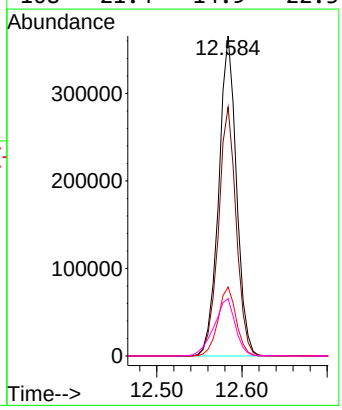
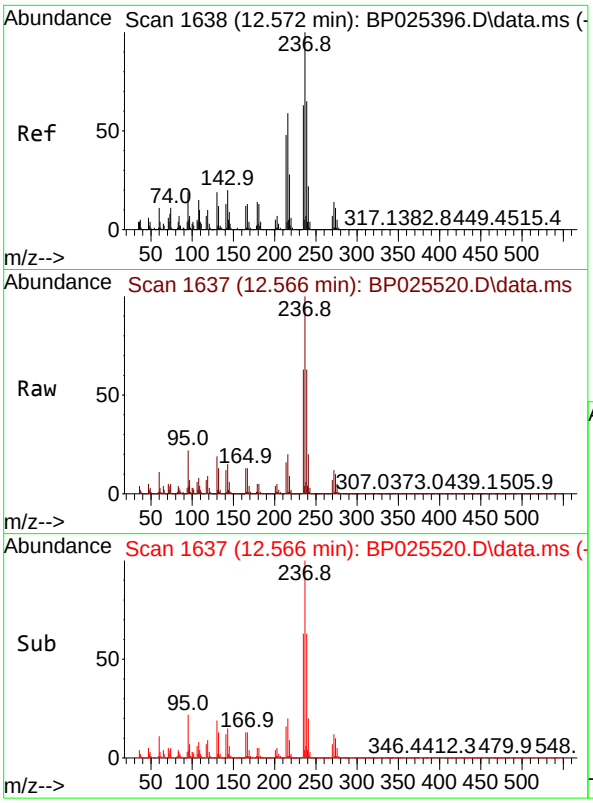


#40
1,2,4,5-Tetrachlorobenzene
Concen: 45.440 ng
RT: 12.584 min Scan# 1640
Delta R.T. -0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:216 Resp: 529445

Ion	Ratio	Lower	Upper
216	100		
214	77.8	63.0	94.4
179	22.0	17.1	25.7
108	21.4	14.9	22.3

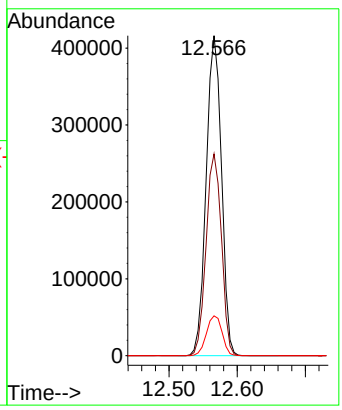




#41
Hexachlorocyclopentadiene
Concen: 92.264 ng
RT: 12.566 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:237 Resp: 64935

Ion	Ratio	Lower	Upper
237	100		
235	63.0	42.7	82.7
272	12.4	0.0	34.0



Instrument :
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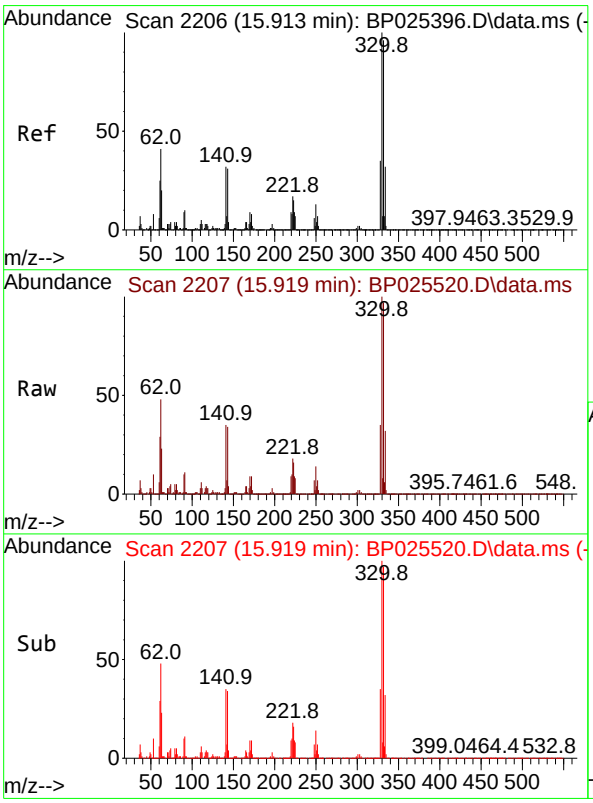
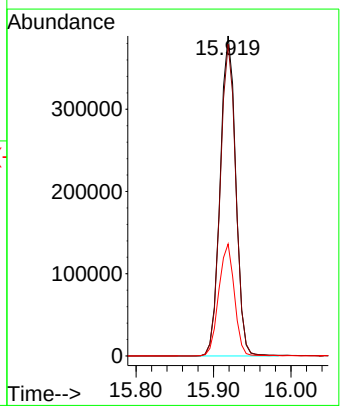
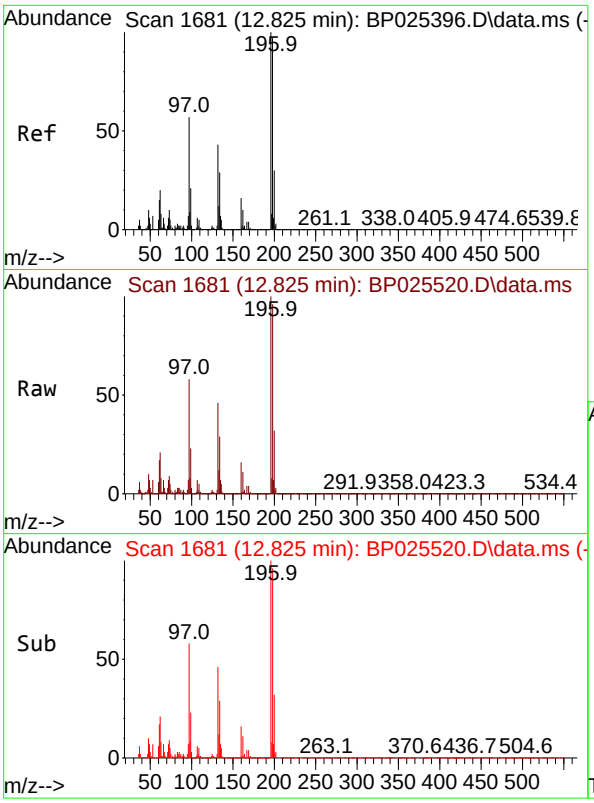


#42
2,4,6-Tribromophenol
Concen: 100.145 ng
RT: 15.919 min Scan# 2207
Delta R.T. 0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:330 Resp: 543808

Ion	Ratio	Lower	Upper
330	100		
332	97.3	77.3	115.9
141	35.2	26.6	39.8





#43
2,4,6-Trichlorophenol
Concen: 47.848 ng
RT: 12.825 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:196 Resp: 37637

Ion	Ratio	Lower	Upper
196	100		
198	96.4	77.2	115.8
200	31.5	23.9	35.9

Instrument :
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ClientSampleId :
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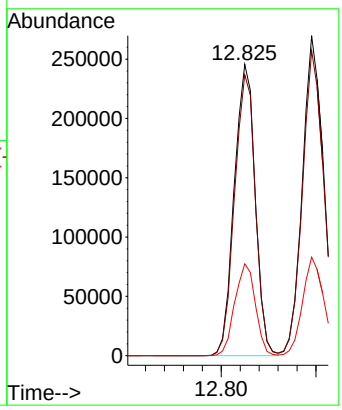
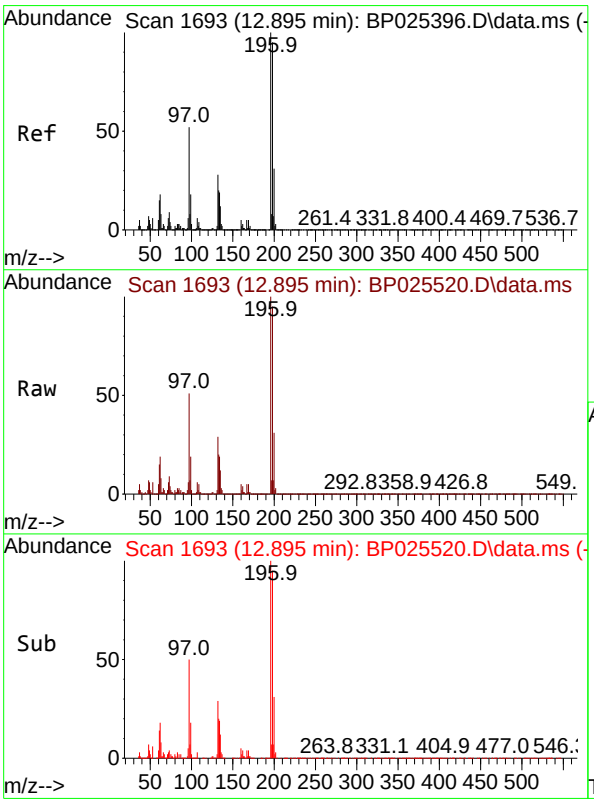
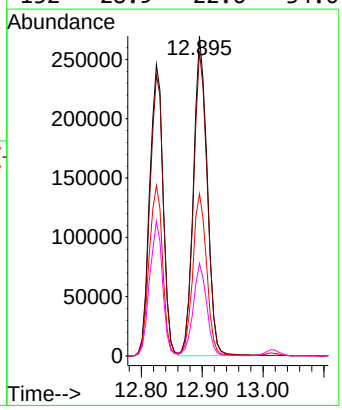


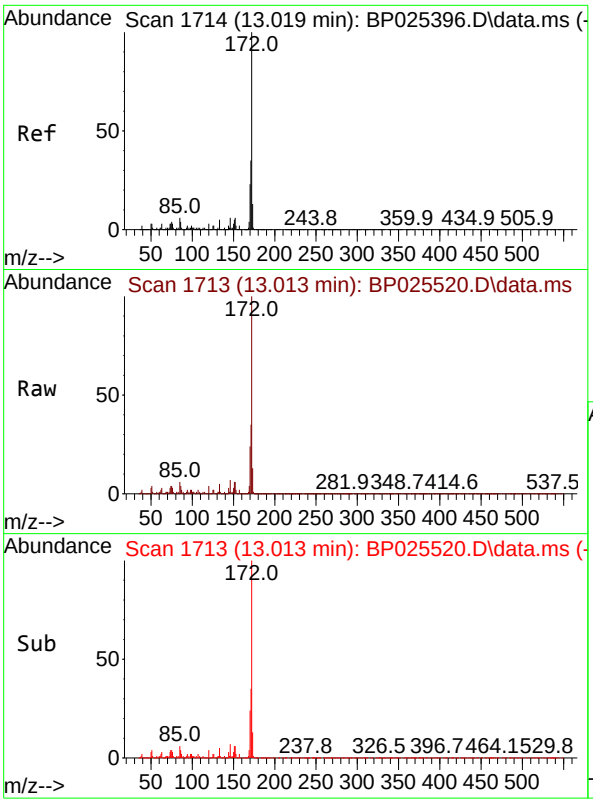


#44
2,4,5-Trichlorophenol
Concen: 49.047 ng
RT: 12.895 min Scan# 1693
Delta R.T. -0.000 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:196 Resp: 422835

Ion	Ratio	Lower	Upper
196	100		
198	95.3	76.2	114.2
97	50.7	41.2	61.8
132	28.9	22.6	34.0

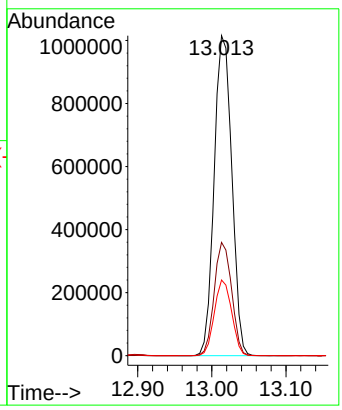




#45
2-Fluorobiphenyl
Concen: 56.883 ng
RT: 13.013 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:172 Resp: 167912

Ion	Ratio	Lower	Upper
172	100		
171	35.4	28.1	42.1
170	23.6	18.6	28.0



Instrument :
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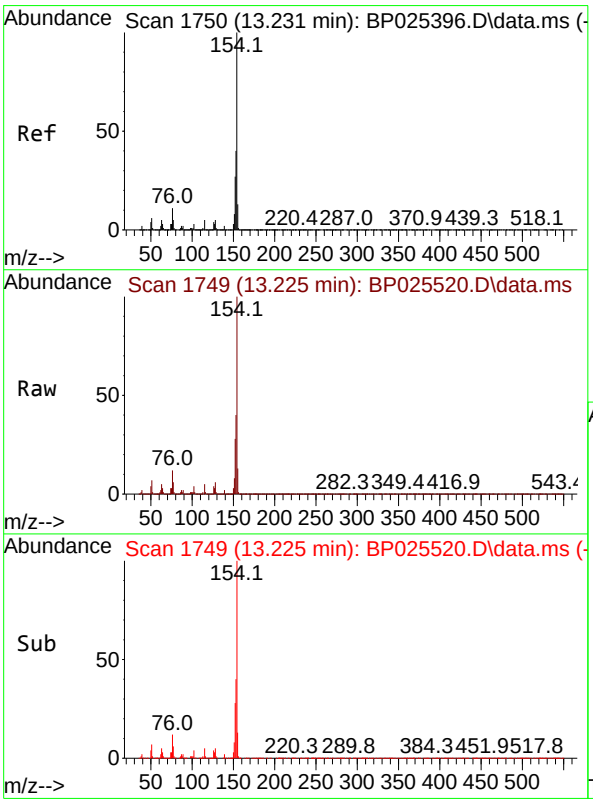
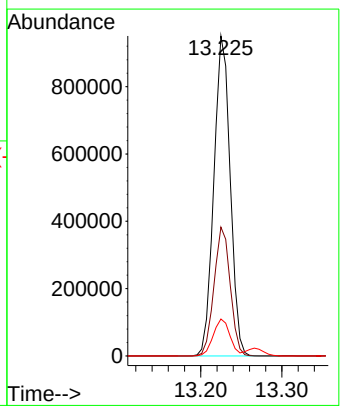
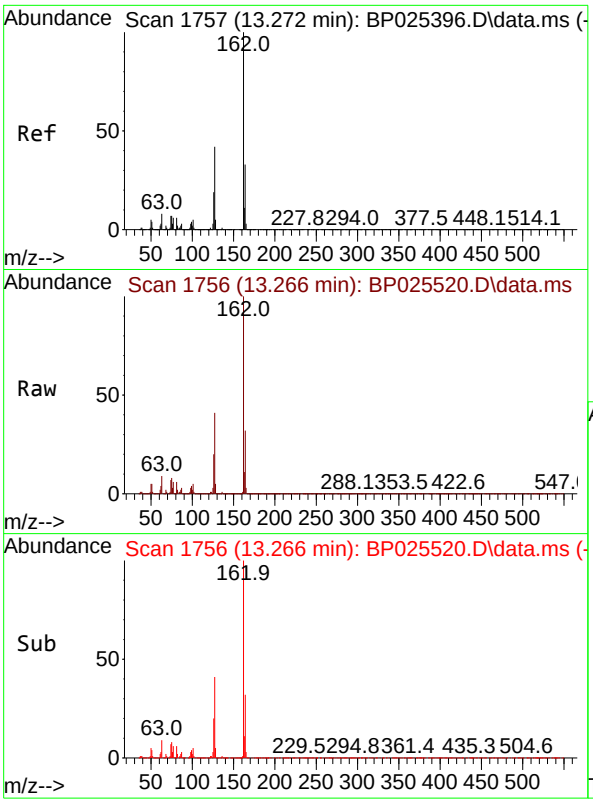


#46
1,1'-Biphenyl
Concen: 45.403 ng
RT: 13.225 min Scan# 1749
Delta R.T. -0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:154 Resp: 1330277

Ion	Ratio	Lower	Upper
154	100		
153	40.2	19.5	59.5
76	11.6	0.0	31.1

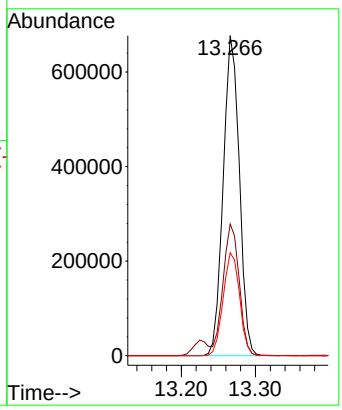




#47
2-Chloronaphthalene
Concen: 44.881 ng
RT: 13.266 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:162 Resp: 102370

Ion	Ratio	Lower	Upper
162	100		
127	41.2	33.4	50.2
164	32.2	26.2	39.2



Instrument :
BNA_P
ClientSampleId :
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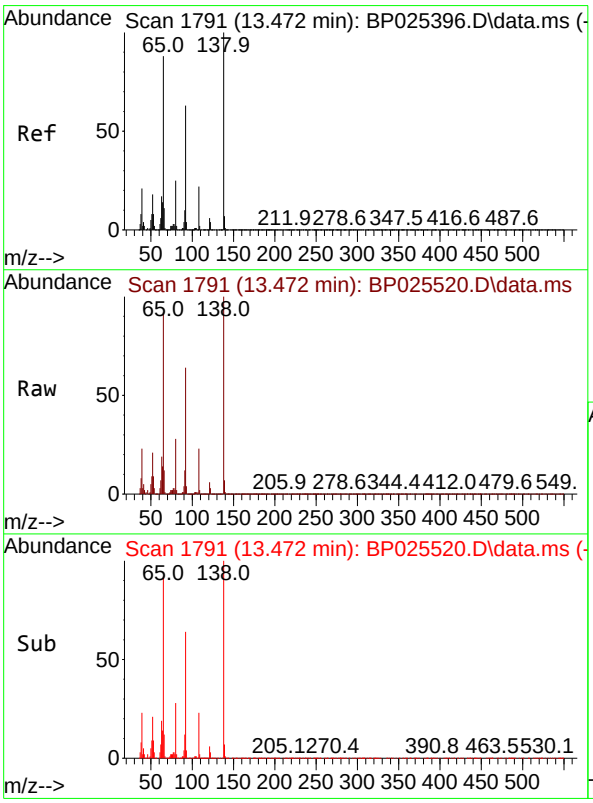
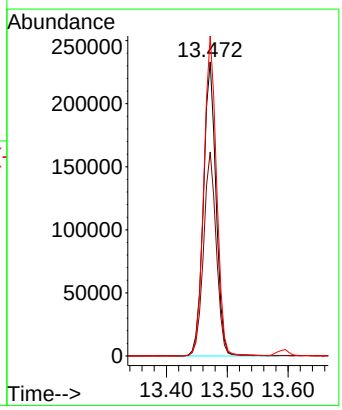
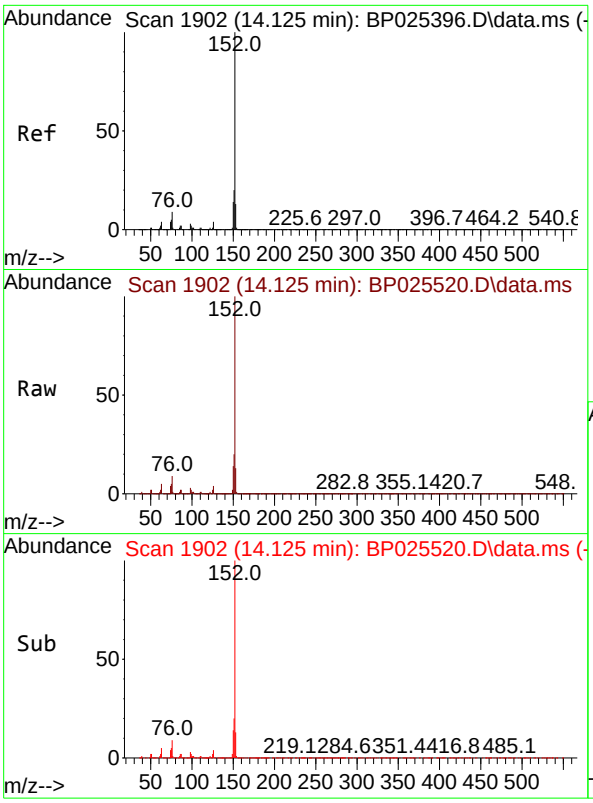


#48
2-Nitroaniline
Concen: 50.668 ng
RT: 13.472 min Scan# 1791
Delta R.T. -0.000 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion: 65 Resp: 336748

Ion	Ratio	Lower	Upper
65	100		
92	69.4	57.6	86.4
138	108.8	91.0	136.6

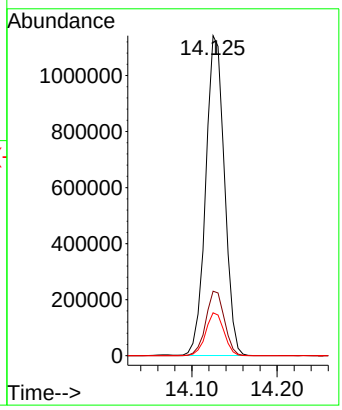




#49
Acenaphthylene
Concen: 46.038 ng
RT: 14.125 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:152 Resp: 173761

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.0	24.0
153	13.4	10.6	15.8



Instrument :
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ClientSampleId :
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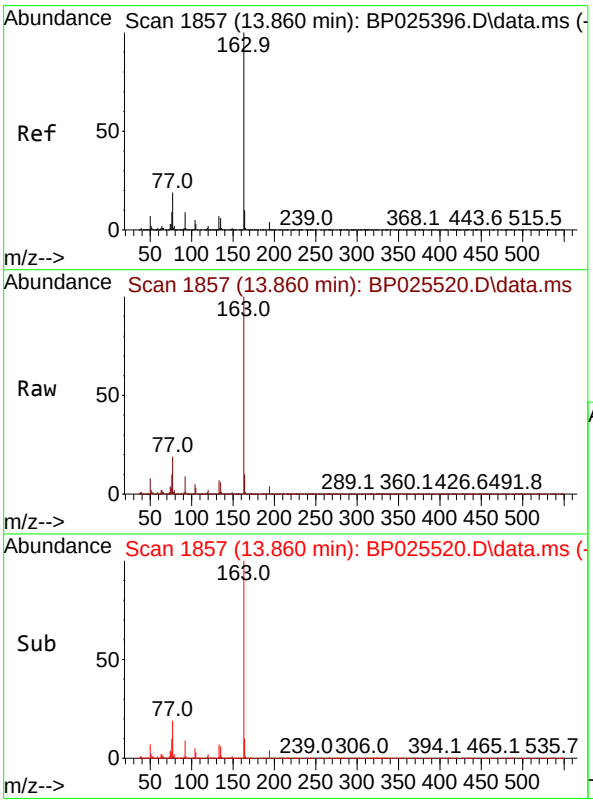
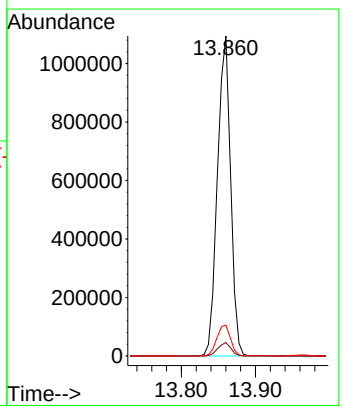
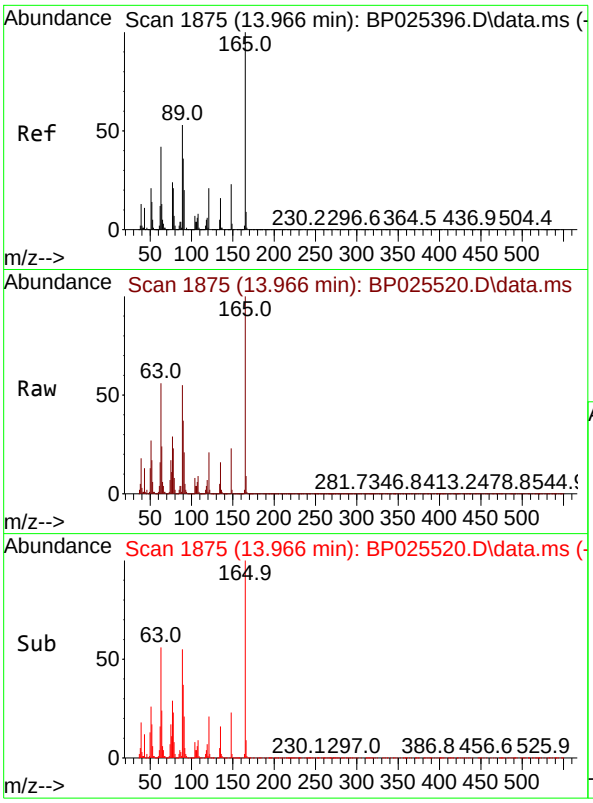


#50
Dimethylphthalate
Concen: 45.729 ng
RT: 13.860 min Scan# 1857
Delta R.T. -0.000 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:163 Resp: 1350968

Ion	Ratio	Lower	Upper
163	100		
194	4.2	3.4	5.0
164	9.7	7.9	11.9

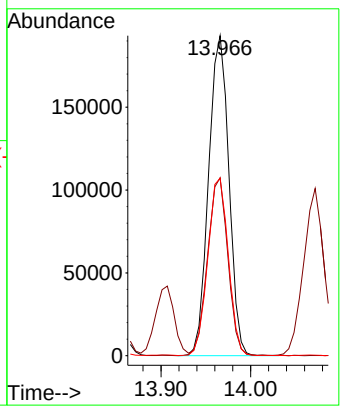




#51
2,6-Dinitrotoluene
Concen: 48.690 ng
RT: 13.966 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:165 Resp: 30317

Ion	Ratio	Lower	Upper
165	100		
63	55.6	40.9	61.3
89	55.5	42.1	63.1



Instrument :
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ClientSampleId :
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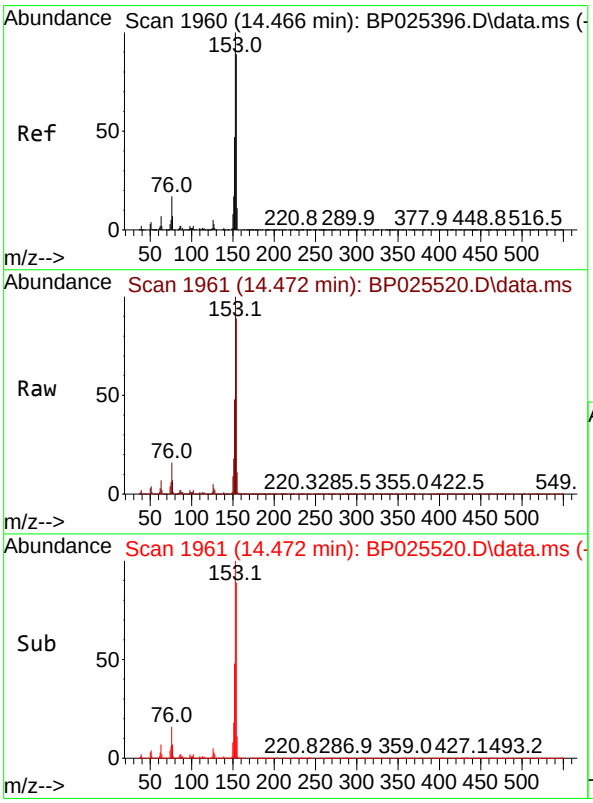
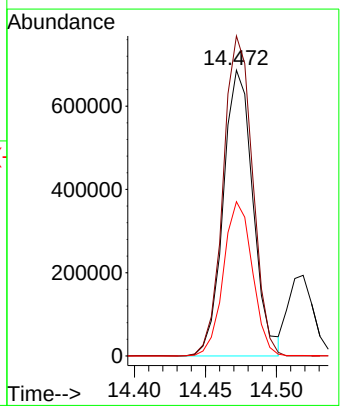
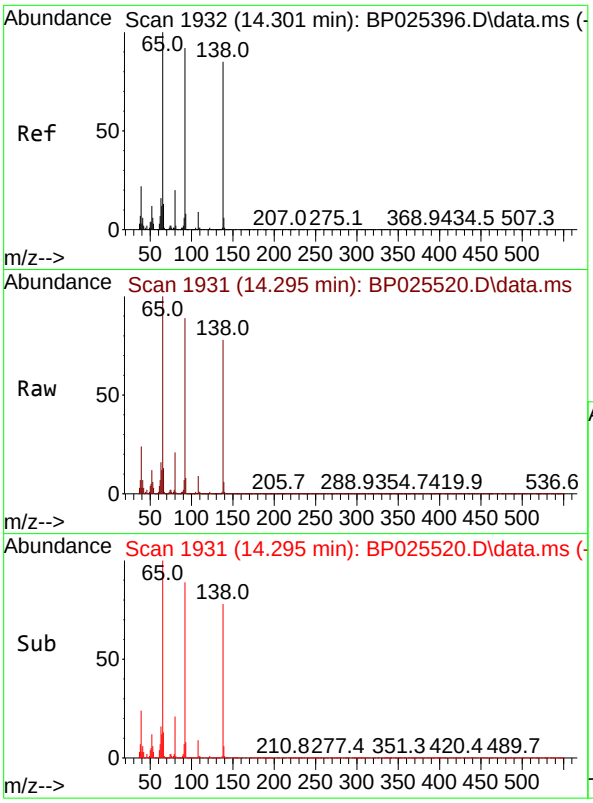


#52
Acenaphthene
Concen: 45.154 ng
RT: 14.472 min Scan# 1961
Delta R.T. 0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:154 Resp: 1000372

Ion	Ratio	Lower	Upper
154	100		
153	111.9	90.2	135.2
152	54.0	42.1	63.1





#53
3-Nitroaniline
Concen: 35.706 ng
RT: 14.295 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:138 Resp: 25014

Ion	Ratio	Lower	Upper
138	100		
108	11.2	8.3	12.5
92	113.3	86.2	129.2

Instrument :
BNA_P
ClientSampleId :
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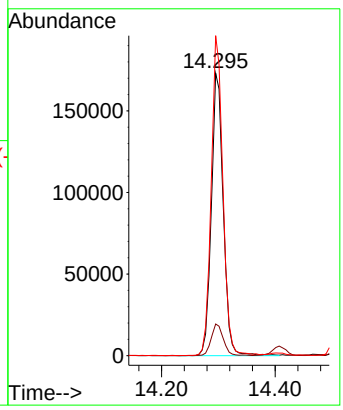
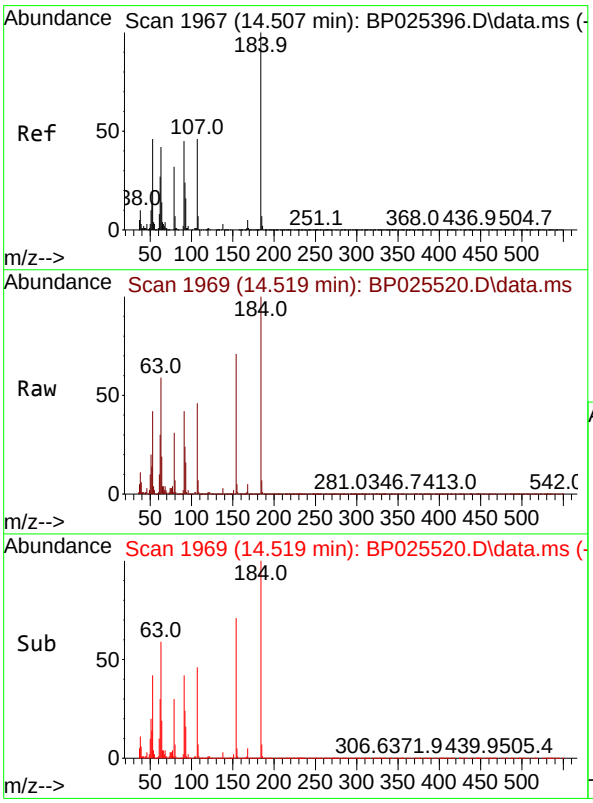
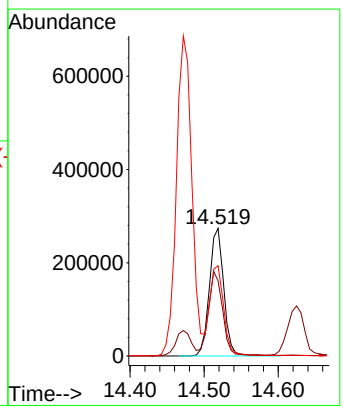


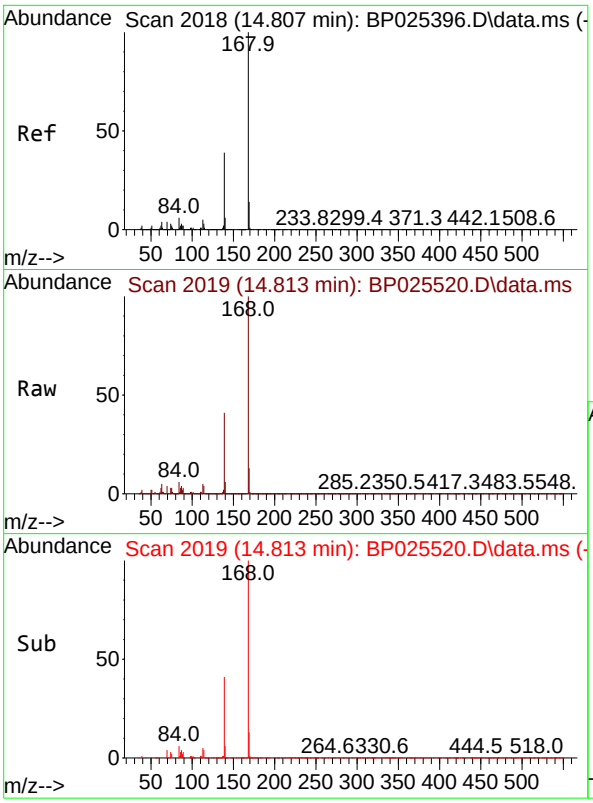


#54
2,4-Dinitrophenol
Concen: 111.289 ng
RT: 14.519 min Scan# 1969
Delta R.T. 0.012 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:184 Resp: 370066

Ion	Ratio	Lower	Upper
184	100		
63	58.9	49.4	74.2
154	70.8	54.6	82.0

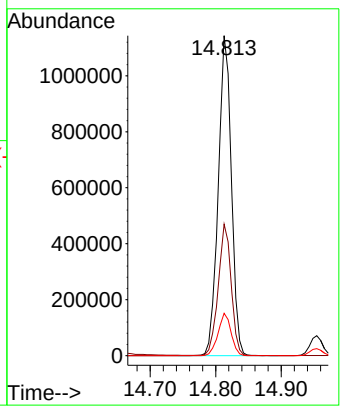




#55
Dibenzofuran
Concen: 45.003 ng
RT: 14.813 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:168 Resp: 157628

Ion	Ratio	Lower	Upper
168	100		
139	41.1	31.5	47.3
169	13.2	10.9	16.3



Instrument :
BNA_P
ClientSampleId :
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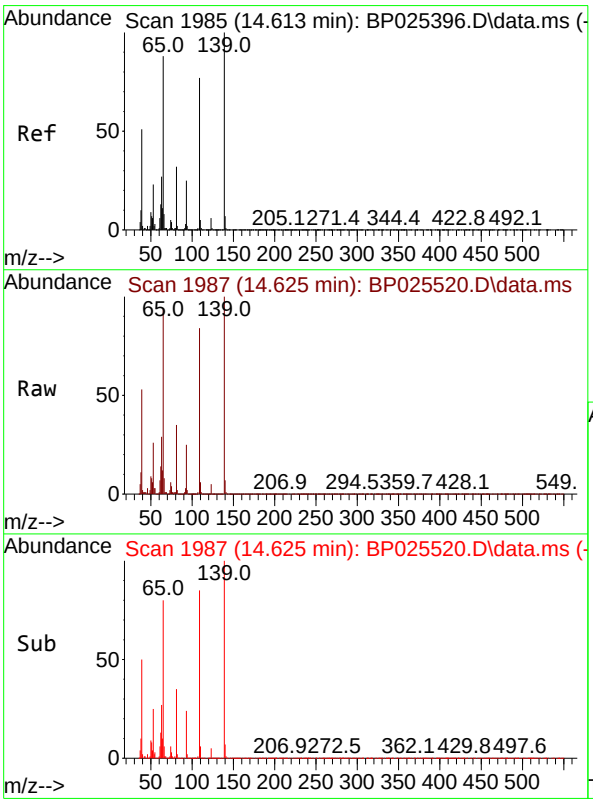
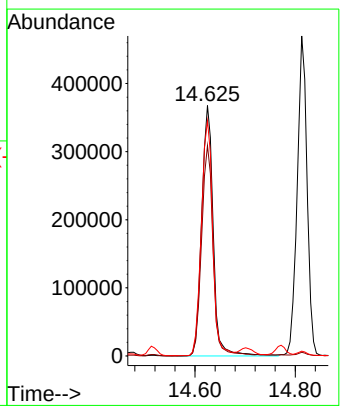
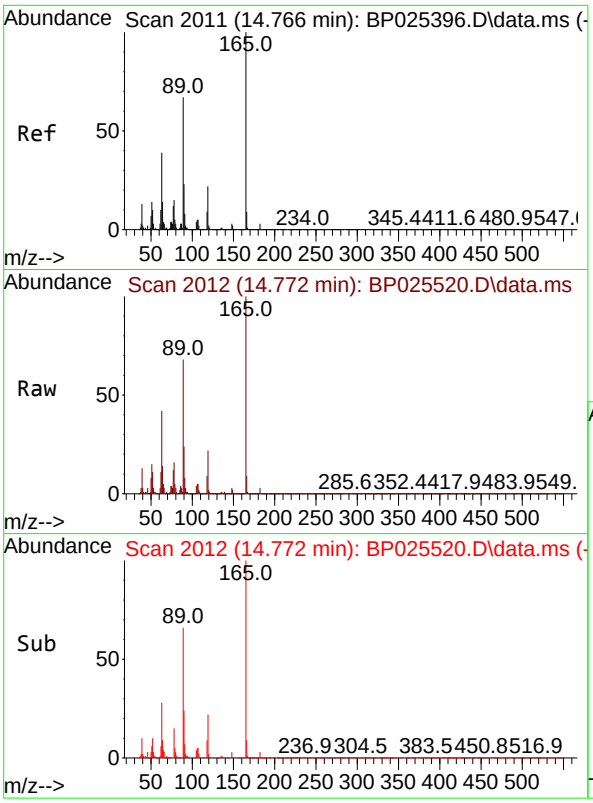


#56
4-Nitrophenol
Concen: 101.965 ng
RT: 14.625 min Scan# 1987
Delta R.T. 0.012 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:139 Resp: 587000

Ion	Ratio	Lower	Upper
139	100		
109	84.0	56.6	96.6
65	94.0	68.2	108.2

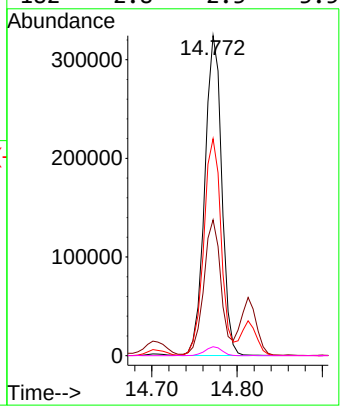




#57
2,4-Dinitrotoluene
Concen: 50.455 ng
RT: 14.772 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:165 Resp: 44824

Ion	Ratio	Lower	Upper
165	100		
63	42.4	31.4	47.2
89	67.8	53.3	79.9
182	2.8	2.3	3.5



Instrument :
BNA_P
ClientSampleId :
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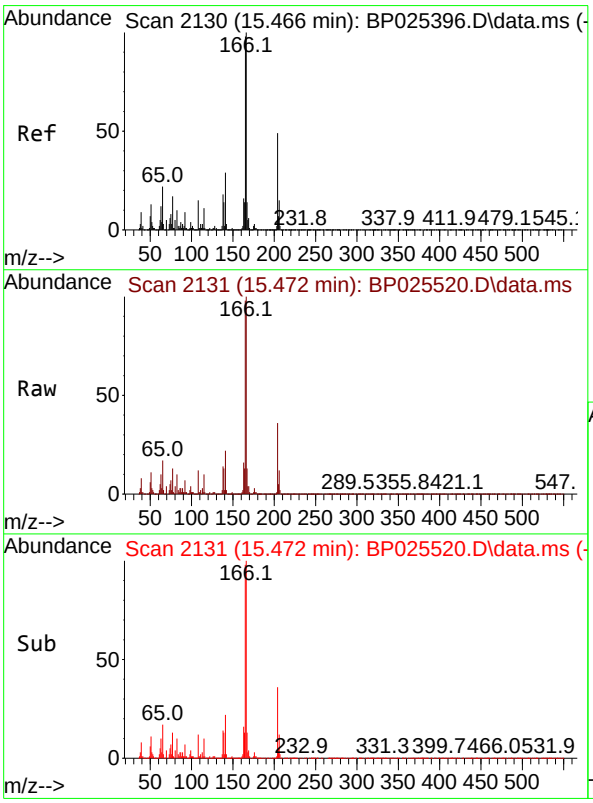
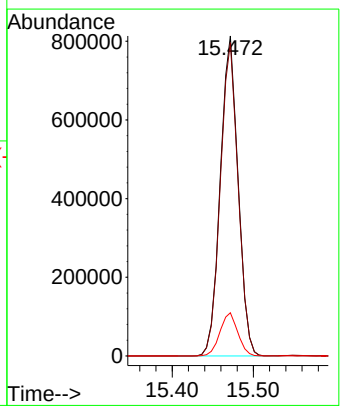
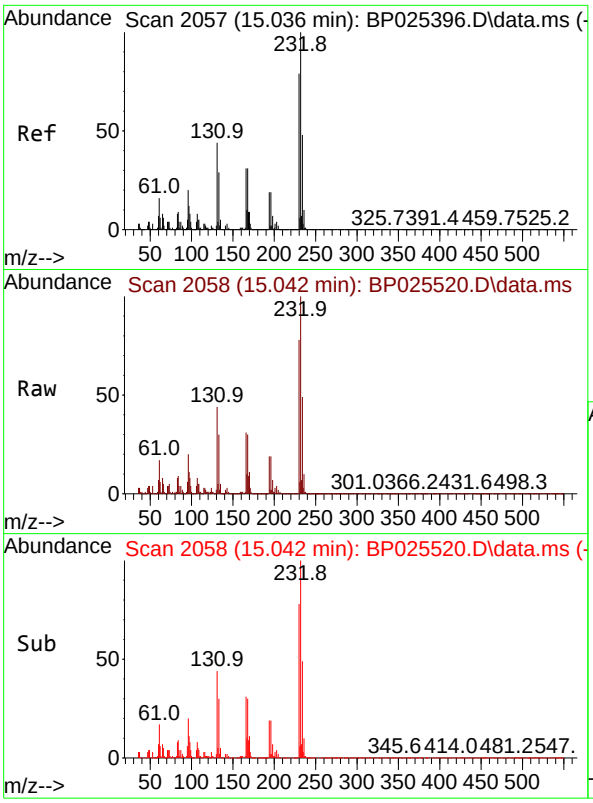


#58
Fluorene
Concen: 44.904 ng
RT: 15.472 min Scan# 2131
Delta R.T. 0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:166 Resp: 1241069

Ion	Ratio	Lower	Upper
166	100		
165	97.9	78.8	118.2
167	13.5	11.0	16.4

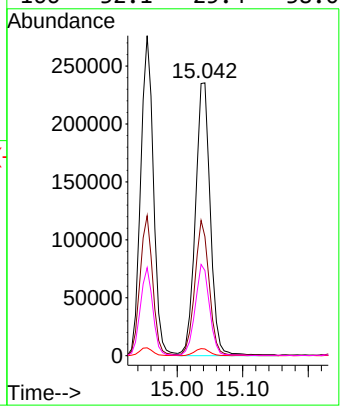




#59
2,3,4,6-Tetrachlorophenol
Concen: 49.135 ng
RT: 15.042 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:232 Resp: 37402

Ion	Ratio	Lower	Upper
232	100		
131	47.5	37.0	55.6
130	2.6	1.9	2.9
166	32.1	25.4	38.0



Instrument :
BNA_P
ClientSampleId :
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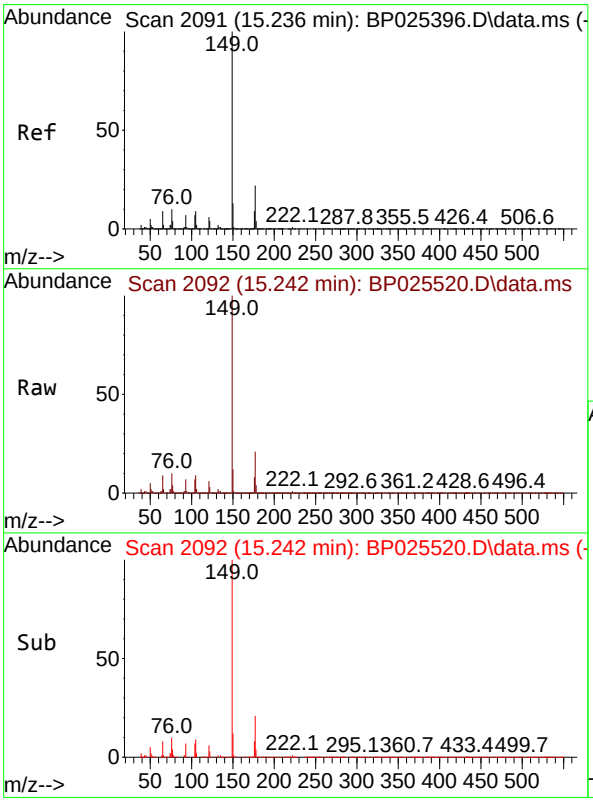
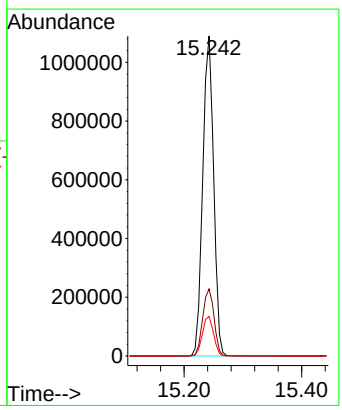
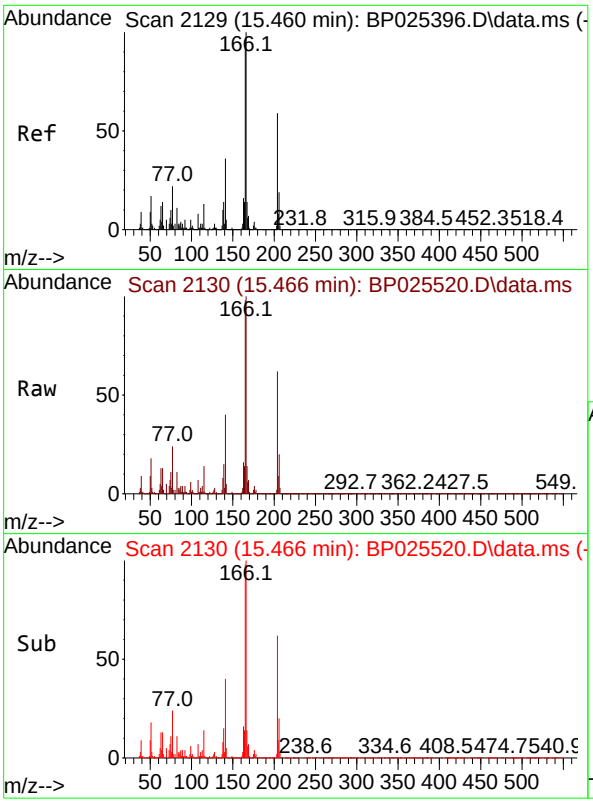


#60
Diethylphthalate
Concen: 46.559 ng
RT: 15.242 min Scan# 2092
Delta R.T. 0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:149 Resp: 1397636

Ion	Ratio	Lower	Upper
149	100		
177	20.9	17.3	25.9
150	12.4	10.3	15.5





#61
4-Chlorophenyl-phenylether
Concen: 44.251 ng
RT: 15.466 min Scan# 21
Delta R.T. 0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:204 Resp: 60825

Ion	Ratio	Lower	Upper
204	100		
206	33.2	25.8	38.8
141	65.1	49.4	74.2

Instrument :
BNA_P
ClientSampleId :
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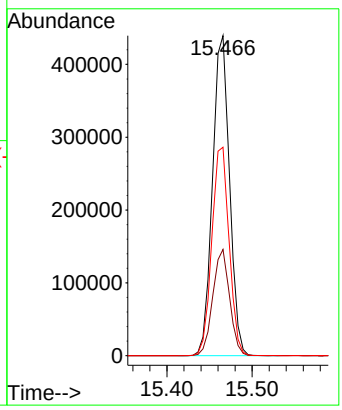
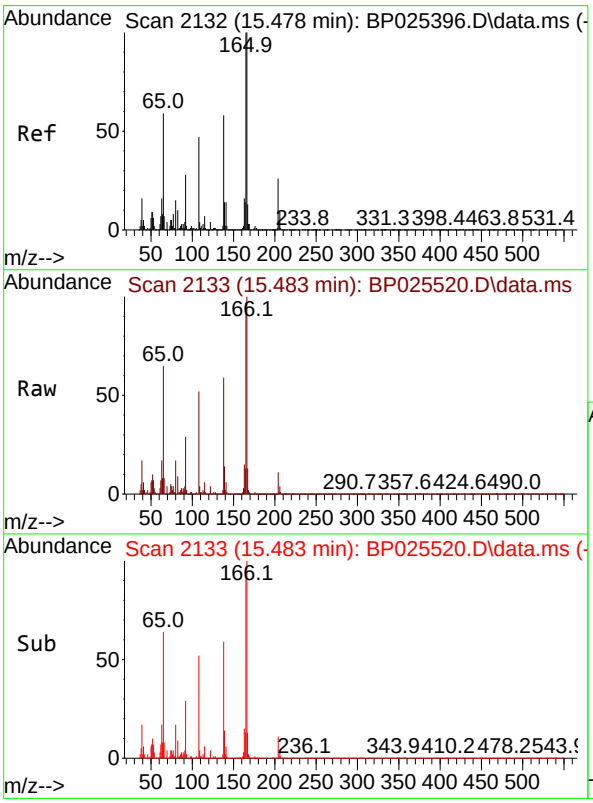
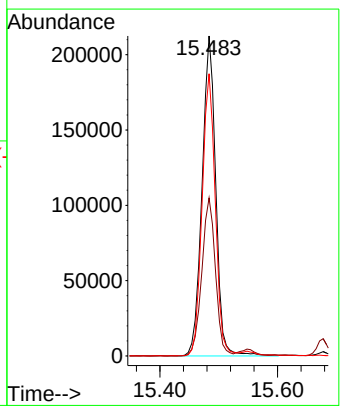


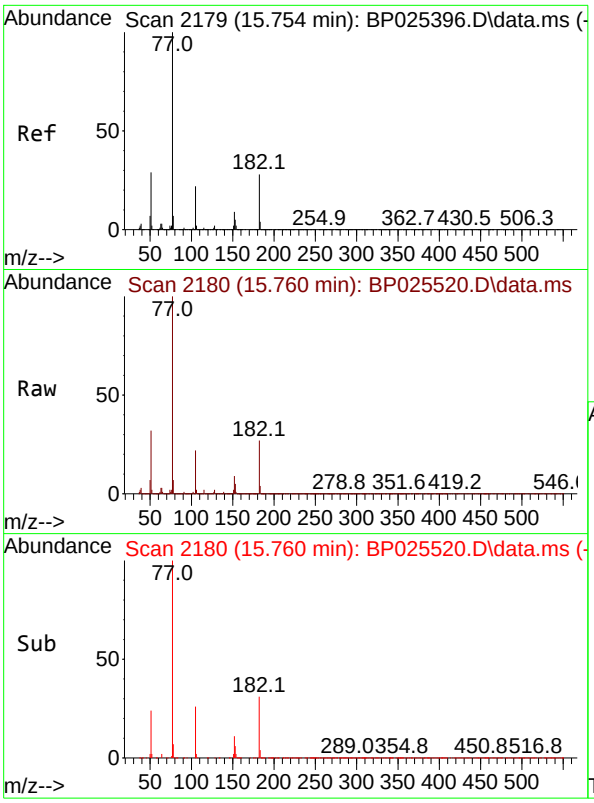


#62
4-Nitroaniline
Concen: 47.854 ng
RT: 15.483 min Scan# 2133
Delta R.T. 0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:138 Resp: 343690

Ion	Ratio	Lower	Upper
138	100		
92	49.4	29.1	69.1
108	88.2	61.5	101.5

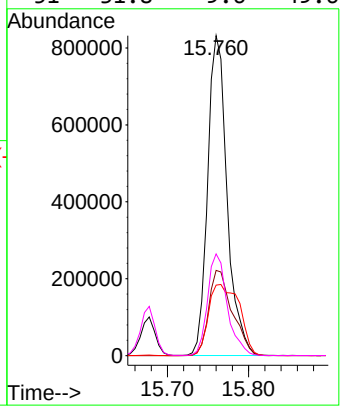




#63
Azobenzene
Concen: 53.725 ng
RT: 15.760 min Scan# 21
Delta R.T. 0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion: 77 Resp: 138094

Ion	Ratio	Lower	Upper
77	100		
182	26.7	7.5	47.5
105	22.0	2.1	42.1
51	31.8	9.6	49.6



Instrument :
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ClientSampleId :
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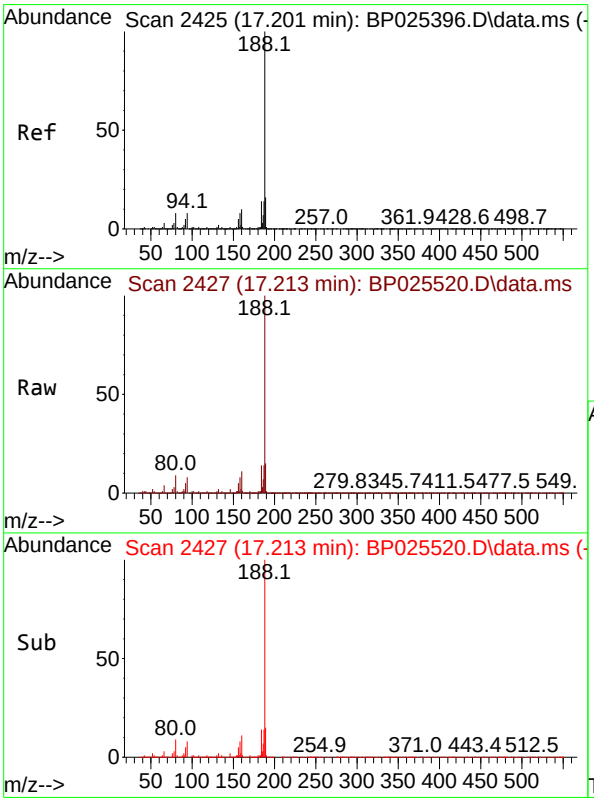
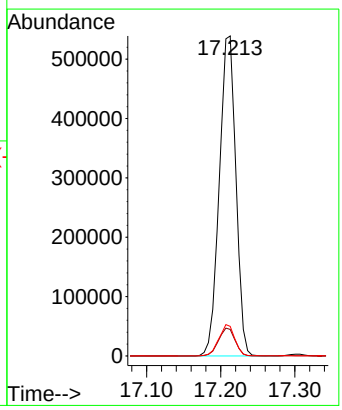
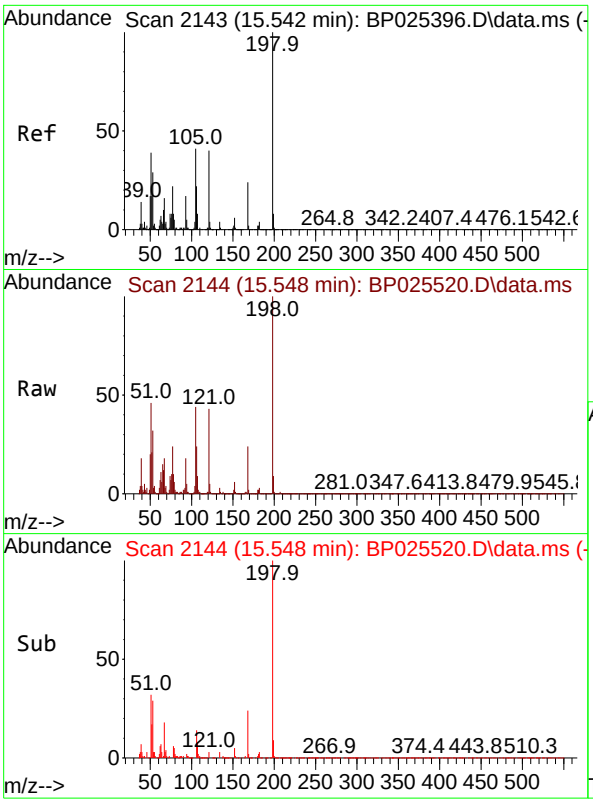


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.213 min Scan# 2427
Delta R.T. 0.012 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:188 Resp: 837501

Ion	Ratio	Lower	Upper
188	100		
94	8.3	6.6	10.0
80	9.2	6.7	10.1





#65
4,6-Dinitro-2-methylphenol
Concen: 49.248 ng
RT: 15.548 min Scan# 21
Delta R.T. 0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:198 Resp: 25710

Ion	Ratio	Lower	Upper
198	100		
51	45.9	19.6	59.6
105	43.8	20.9	60.9

Instrument :
BNA_P
ClientSampleId :
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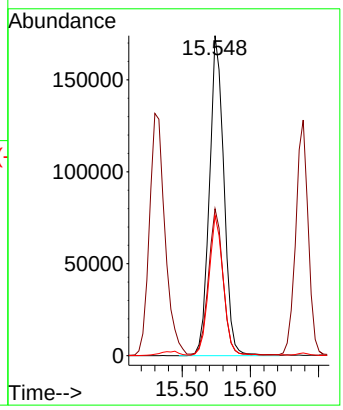
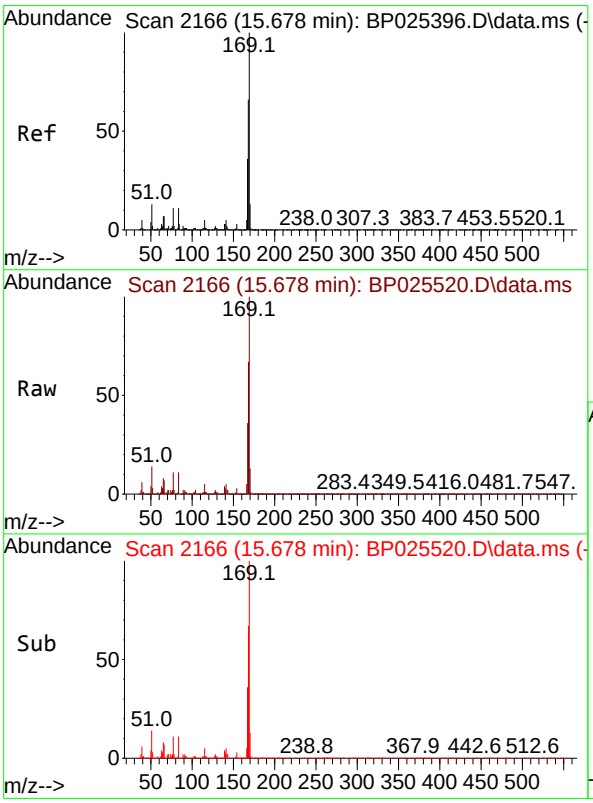
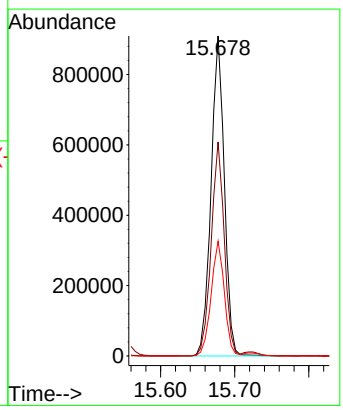


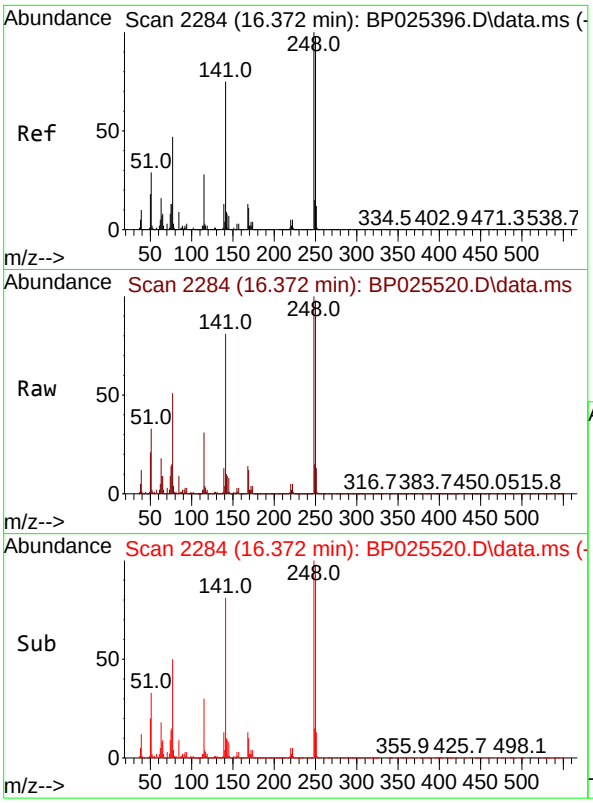


#66
n-Nitrosodiphenylamine
Concen: 44.222 ng
RT: 15.678 min Scan# 2166
Delta R.T. -0.000 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:169 Resp: 1129376

Ion	Ratio	Lower	Upper
169	100		
168	66.9	53.2	79.8
167	35.9	28.7	43.1





#67
4-Bromophenyl-phenylether
Concen: 44.083 ng
RT: 16.372 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:248 Resp: 40604

Ion	Ratio	Lower	Upper
248	100		
250	97.9	78.2	117.2
141	80.7	59.6	89.4

Instrument :
BNA_P
ClientSampleId :
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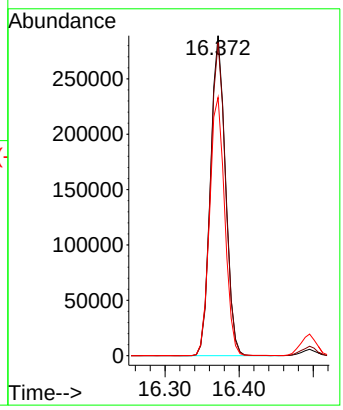
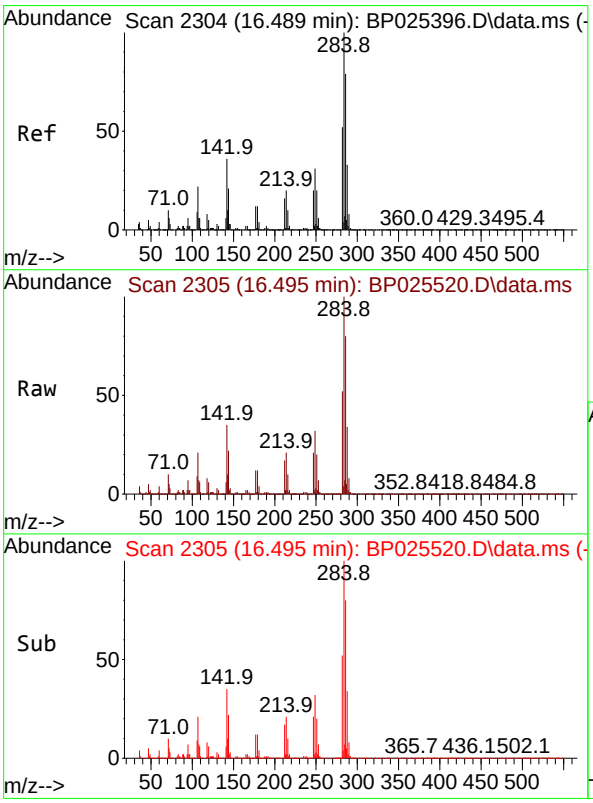
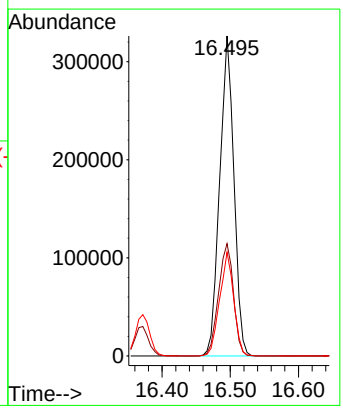


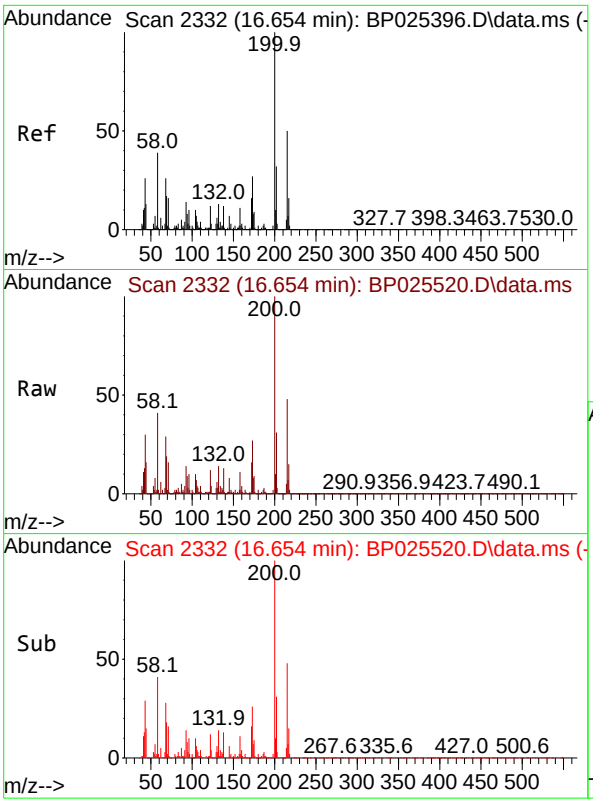


#68
Hexachlorobenzene
Concen: 44.337 ng
RT: 16.495 min Scan# 2305
Delta R.T. 0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:284 Resp: 473408

Ion	Ratio	Lower	Upper
284	100		
142	35.1	29.1	43.7
249	32.4	25.0	37.4

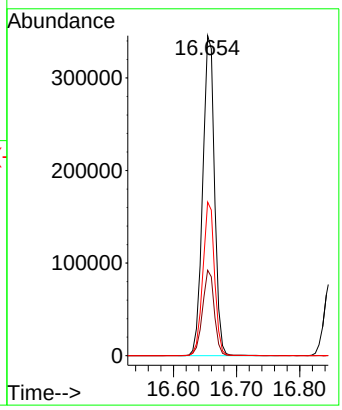




#69
Atrazine
Concen: 46.980 ng
RT: 16.654 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:200 Resp: 44933

Ion	Ratio	Lower	Upper
200	100		
173	26.7	6.7	46.7
215	48.0	29.7	69.7



Instrument :
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ClientSampleId :
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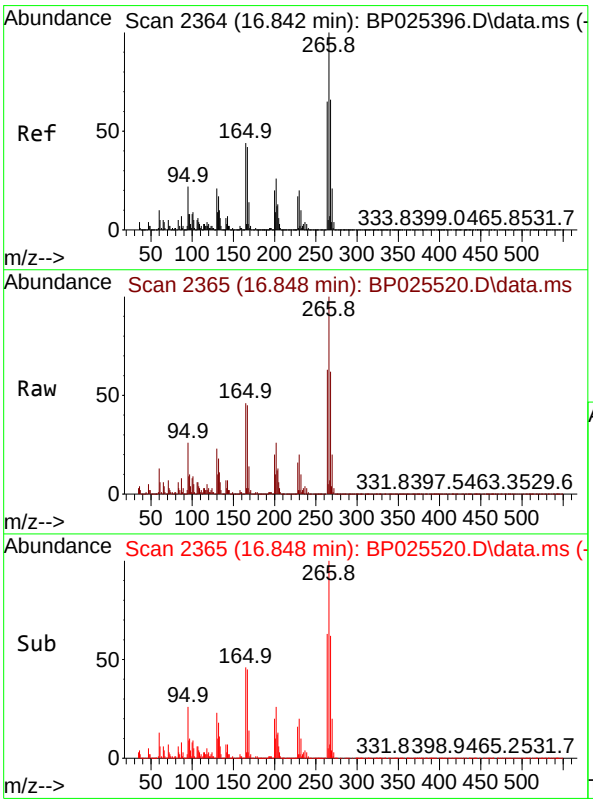
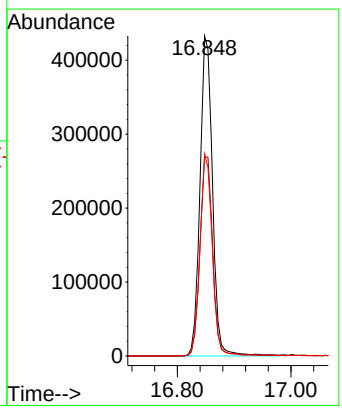
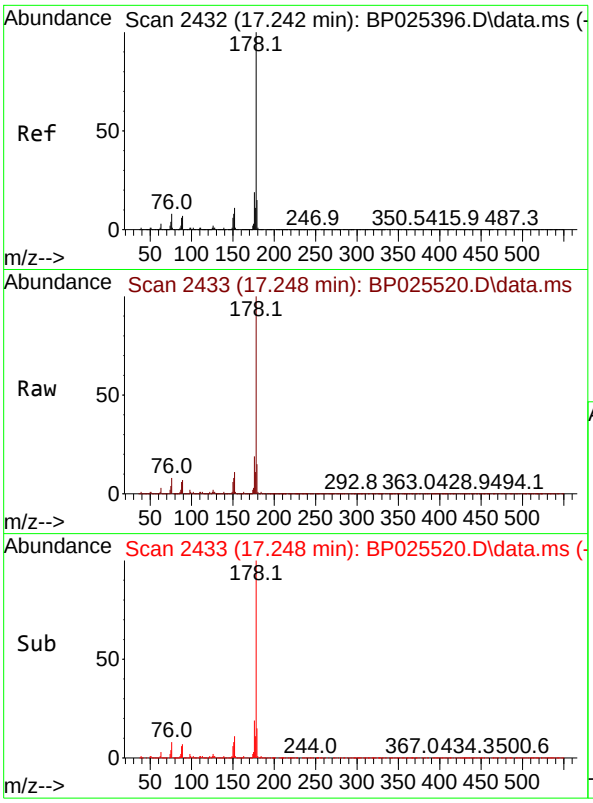


#70
Pentachlorophenol
Concen: 97.917 ng
RT: 16.848 min Scan# 2365
Delta R.T. 0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:266 Resp: 659972

Ion	Ratio	Lower	Upper
266	100		
268	62.4	52.6	79.0
264	63.1	52.0	78.0





#71
Phenanthrene
Concen: 45.067 ng
RT: 17.248 min Scan# 24
Delta R.T. 0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:178 Resp: 207338

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.5	23.3
179	15.3	12.2	18.4

Instrument :
BNA_P
ClientSampleId :
38M-NMS

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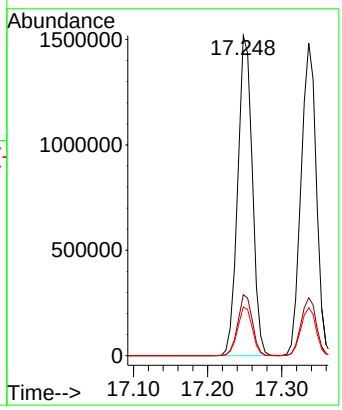
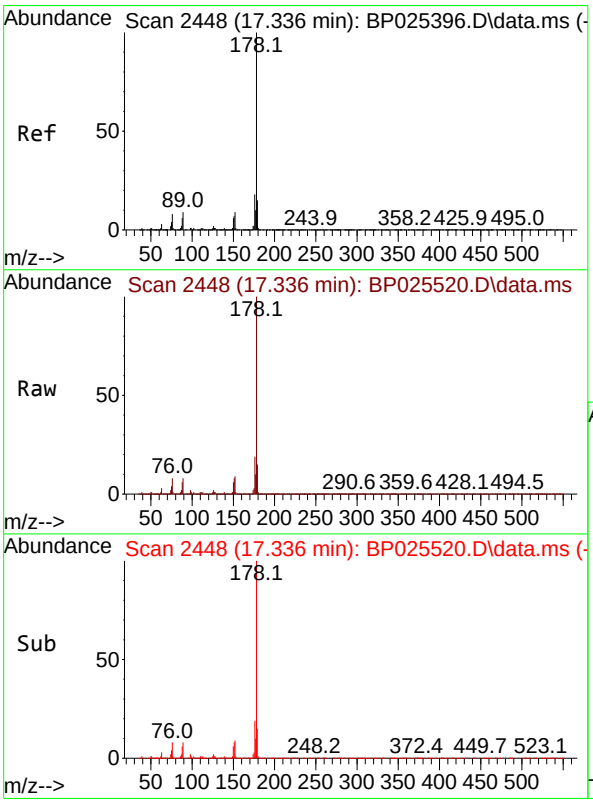
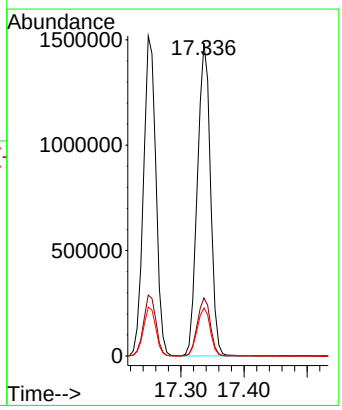


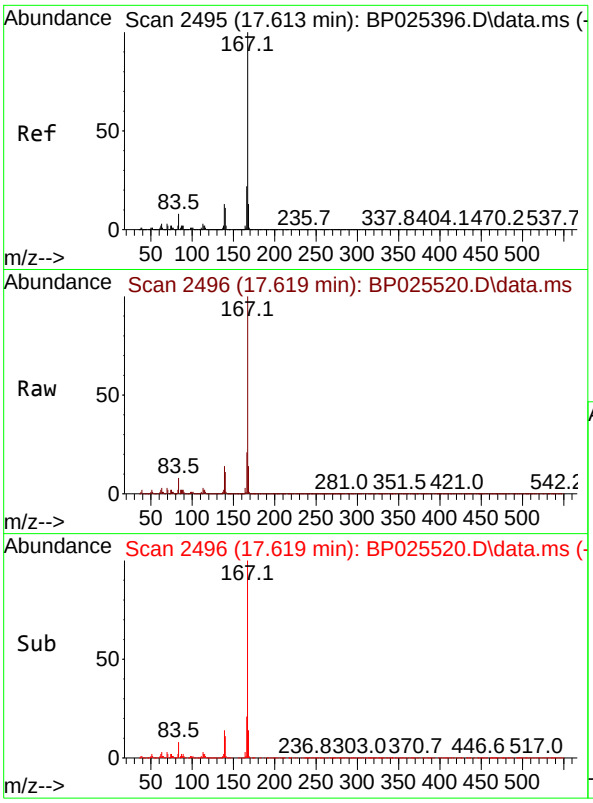


#72
Anthracene
Concen: 45.289 ng
RT: 17.336 min Scan# 2448
Delta R.T. -0.000 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:178 Resp: 2127785

Ion	Ratio	Lower	Upper
178	100		
176	18.5	14.7	22.1
179	15.4	12.2	18.2

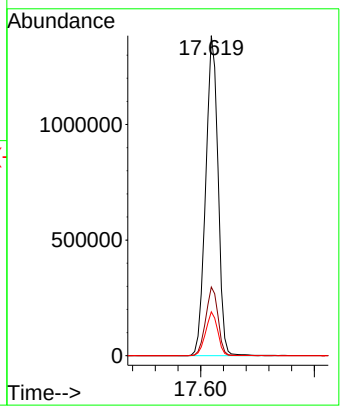




#73
Carbazole
Concen: 46.915 ng
RT: 17.619 min Scan# 24
Delta R.T. 0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:167 Resp: 207615

Ion	Ratio	Lower	Upper
167	100		
166	21.4	17.5	26.3
139	13.7	10.6	16.0



Instrument :
BNA_P
ClientSampleId :
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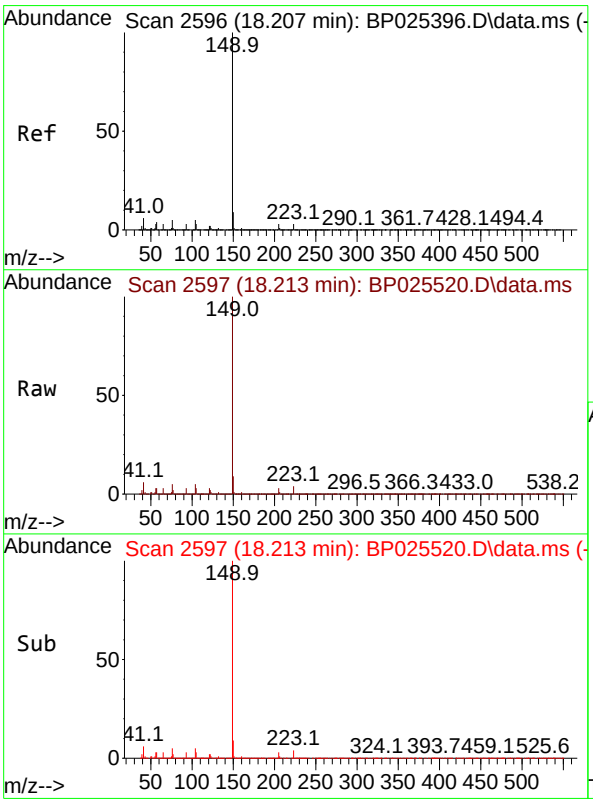
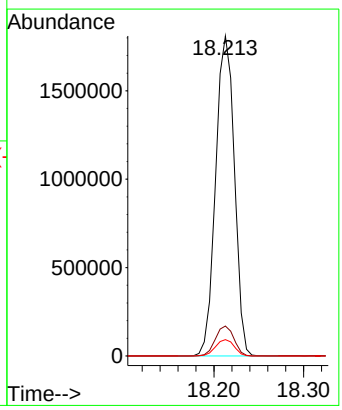
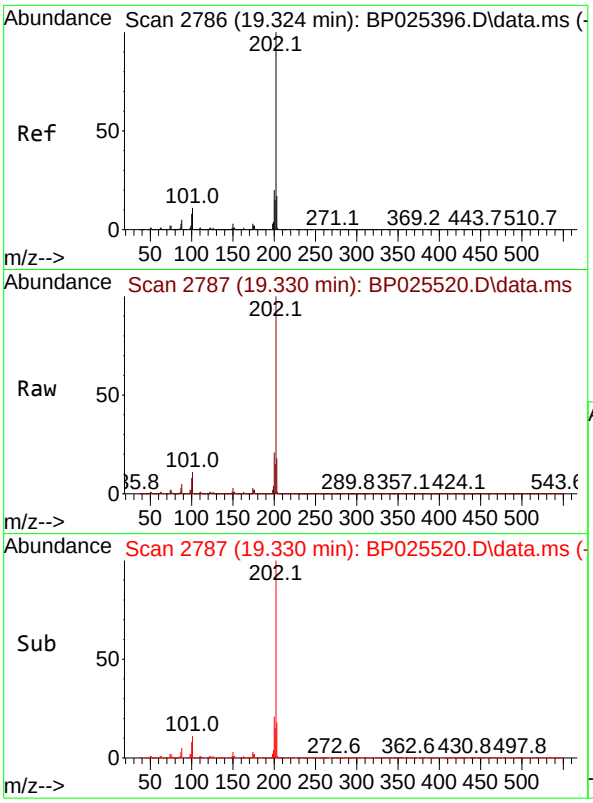


#74
Di-n-butylphthalate
Concen: 48.277 ng
RT: 18.213 min Scan# 2597
Delta R.T. 0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:149 Resp: 2628515

Ion	Ratio	Lower	Upper
149	100		
150	9.3	7.4	11.0
104	5.1	4.2	6.2

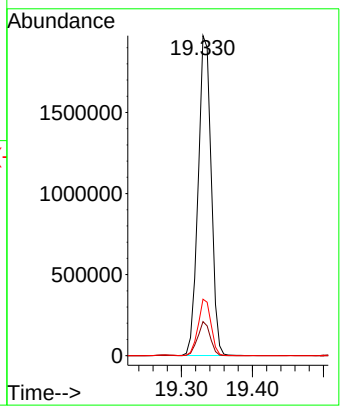




#75
Fluoranthene
Concen: 45.975 ng
RT: 19.330 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:202 Resp: 252302

Ion	Ratio	Lower	Upper
202	100		
101	10.6	0.0	31.1
203	17.7	0.0	37.3



Instrument :
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ClientSampleId :
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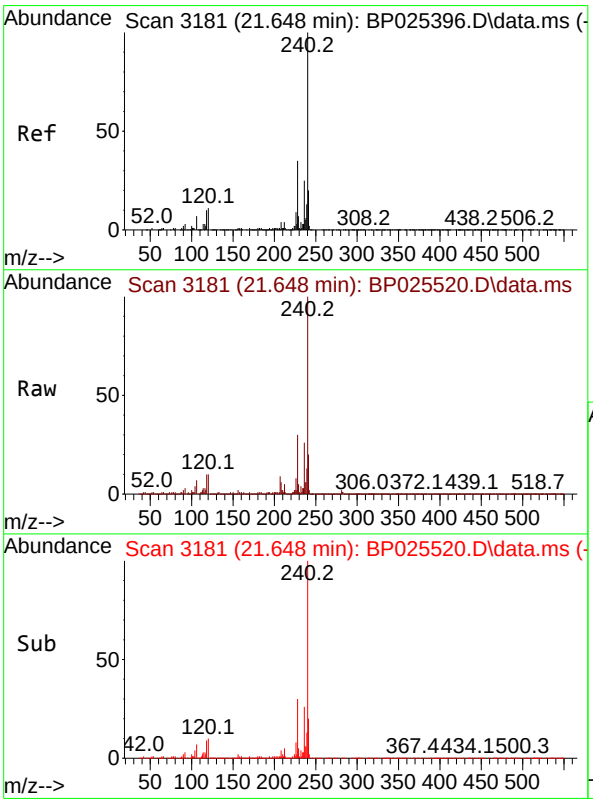
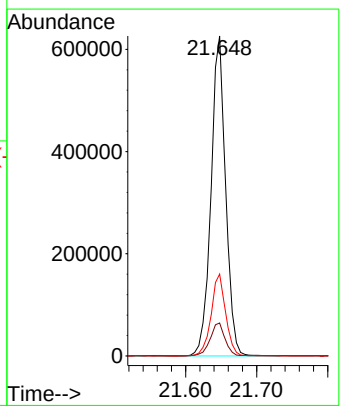
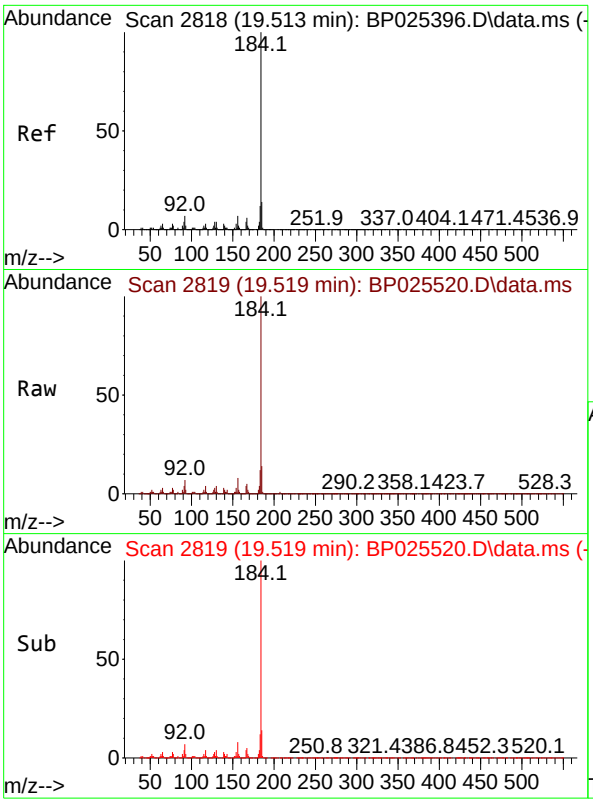


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.648 min Scan# 3181
Delta R.T. -0.000 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:240 Resp: 894140

Ion	Ratio	Lower	Upper
240	100		
120	10.3	8.9	13.3
236	25.6	19.8	29.8

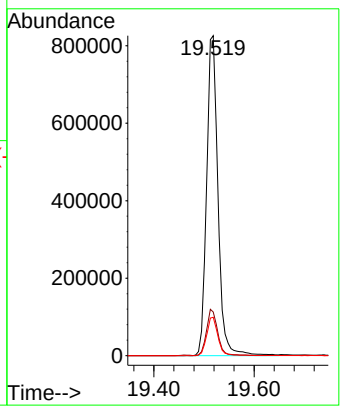




#77
Benzidine
Concen: 42.697 ng
RT: 19.519 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:184 Resp: 130289

Ion	Ratio	Lower	Upper
184	100		
185	13.6	11.5	17.3
183	12.0	9.4	14.2



Instrument :
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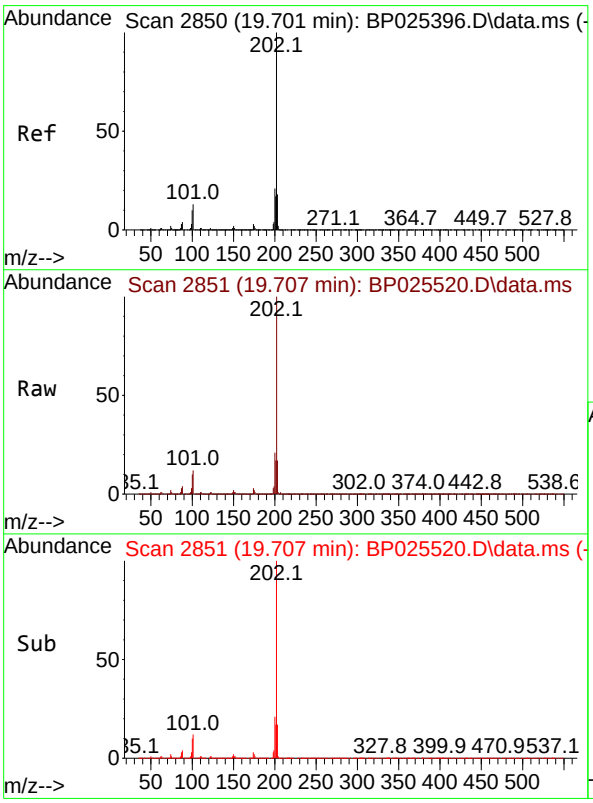
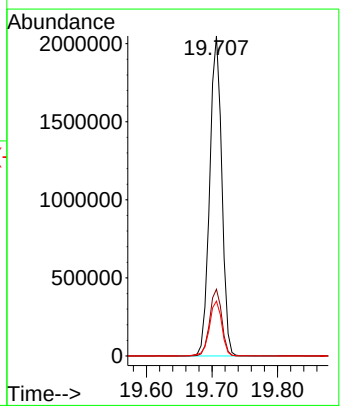
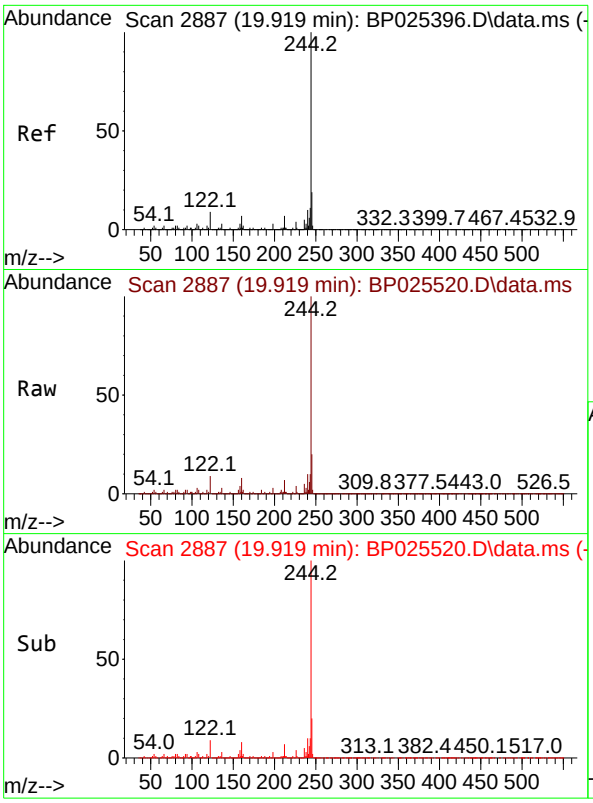


#78
Pyrene
Concen: 45.167 ng
RT: 19.707 min Scan# 2851
Delta R.T. 0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:202 Resp: 2624941

Ion	Ratio	Lower	Upper
202	100		
200	20.8	16.9	25.3
203	17.2	14.2	21.2

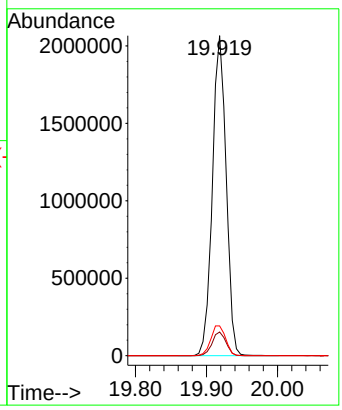




#79
Terphenyl-d14
Concen: 56.813 ng
RT: 19.919 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:244 Resp: 277653

Ion	Ratio	Lower	Upper
244	100		
212	7.4	5.8	8.6
122	9.3	7.4	11.2



Instrument :
BNA_P
ClientSampleId :
38M-NMS

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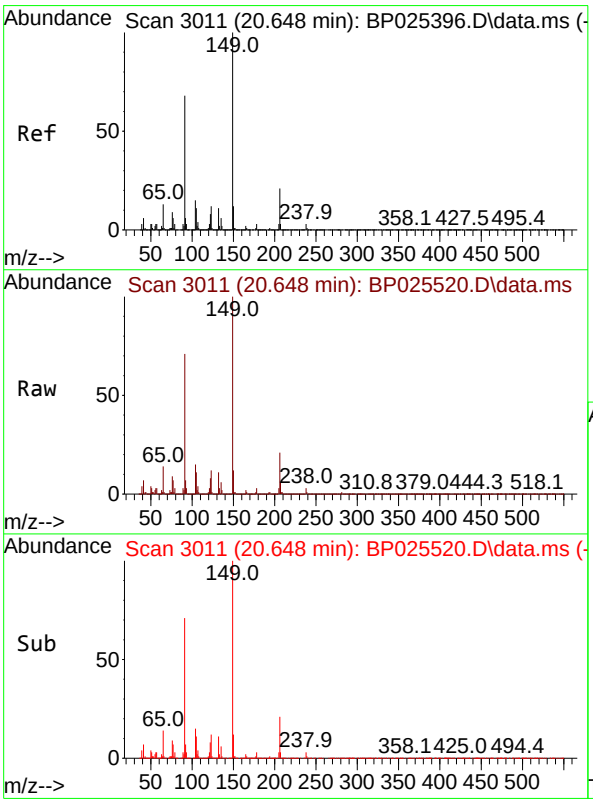
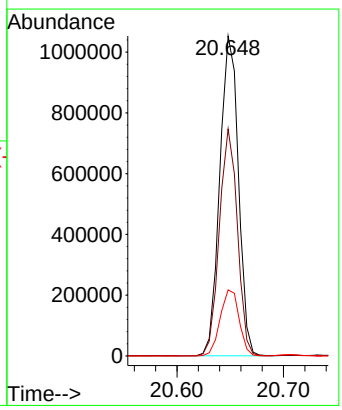
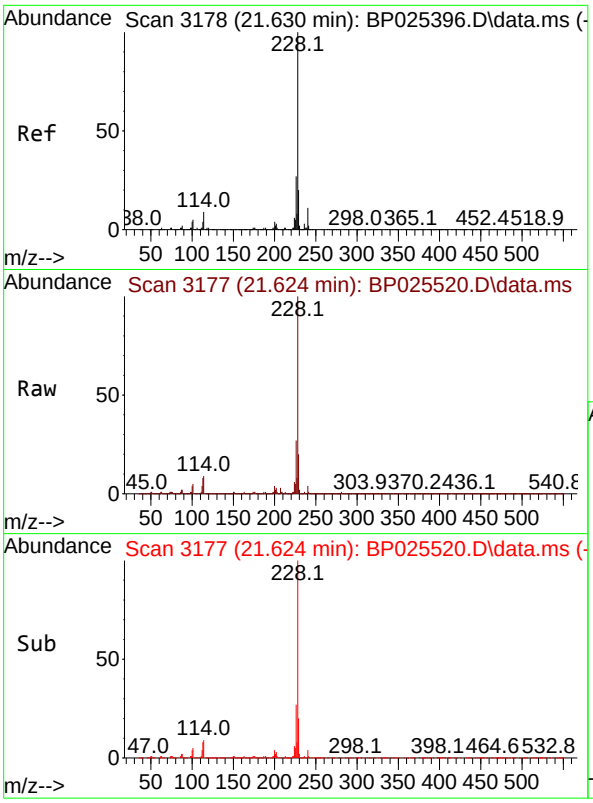


#80
Butylbenzylphthalate
Concen: 48.436 ng
RT: 20.648 min Scan# 3011
Delta R.T. -0.000 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:149 Resp: 1275745

Ion	Ratio	Lower	Upper
149	100		
91	70.9	54.2	81.2
206	20.7	16.6	24.8





#81
Benzo(a)anthracene
Concen: 46.979 ng
RT: 21.624 min Scan# 3
Delta R.T. -0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:228 Resp: 277030

Ion	Ratio	Lower	Upper
228	100		
226	27.0	21.7	32.5
229	19.9	15.6	23.4

Instrument :
BNA_P
ClientSampleId :
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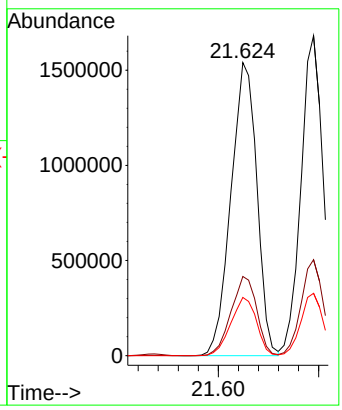
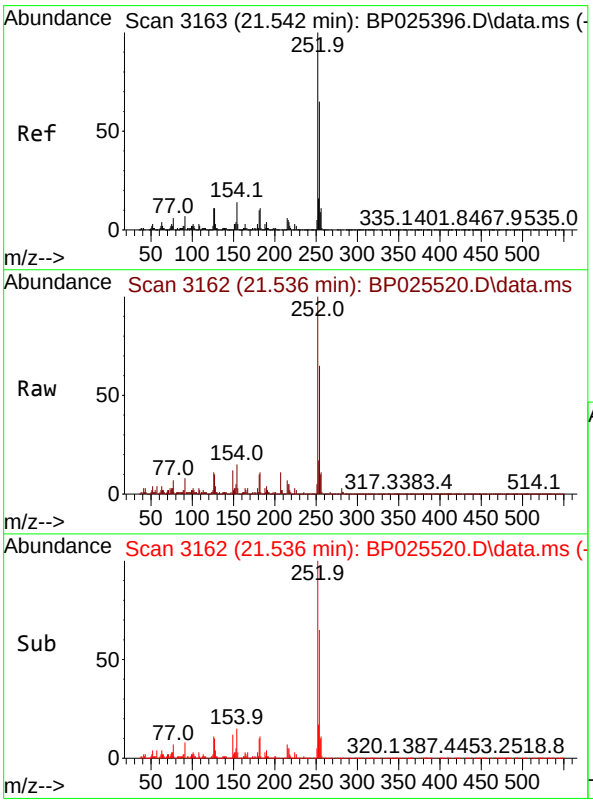
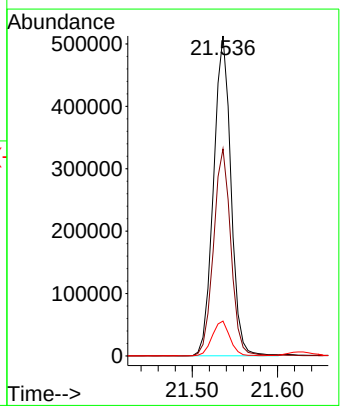


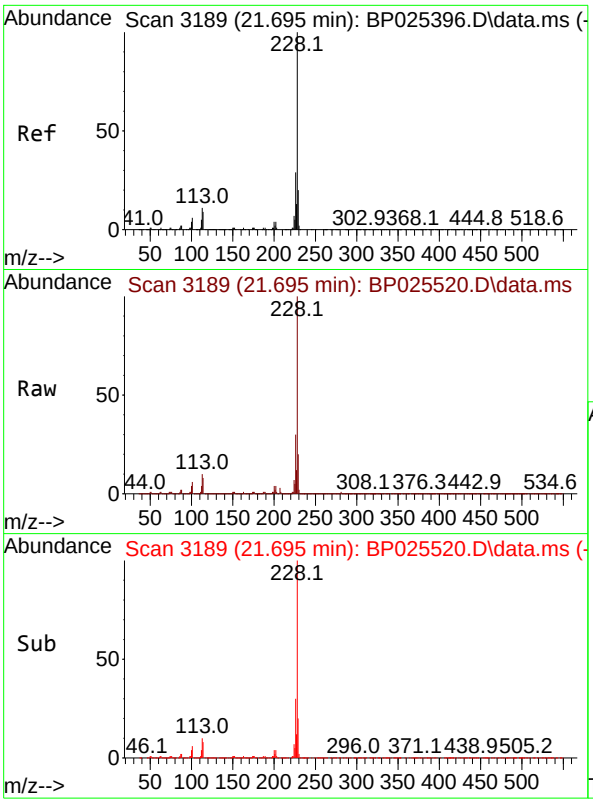


#82
3,3'-Dichlorobenzidine
Concen: 32.723 ng
RT: 21.536 min Scan# 3162
Delta R.T. -0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:252 Resp: 727315

Ion	Ratio	Lower	Upper
252	100		
254	64.7	51.8	77.6
126	10.9	9.1	13.7

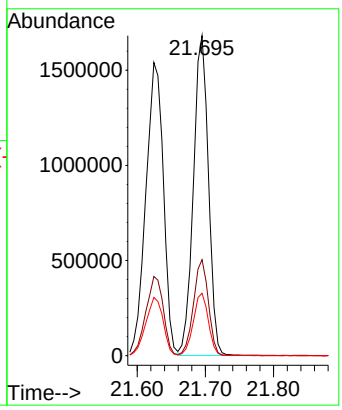




#83
Chrysene
Concen: 46.430 ng
RT: 21.695 min Scan# 3
Delta R.T. -0.000 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:228 Resp: 256407

Ion	Ratio	Lower	Upper
228	100		
226	30.0	23.2	34.8
229	19.5	15.6	23.4



Instrument :
BNA_P
ClientSampleId :
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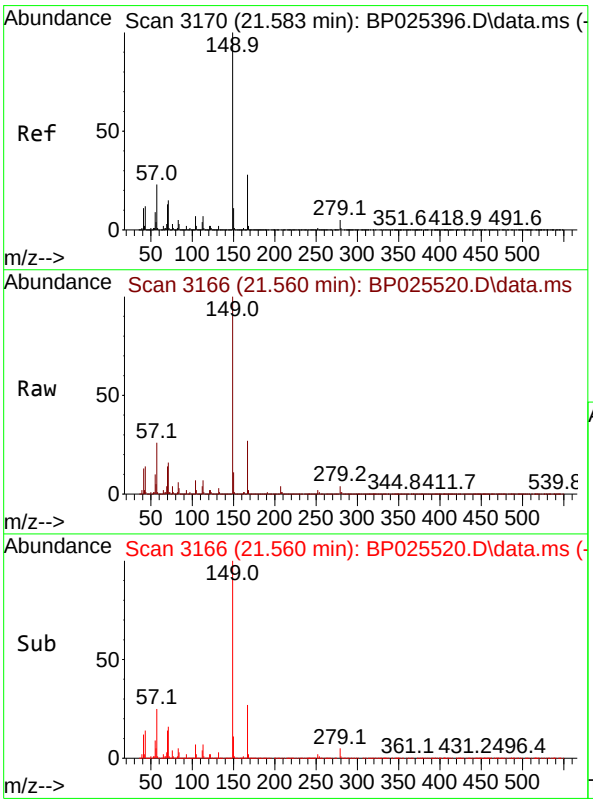
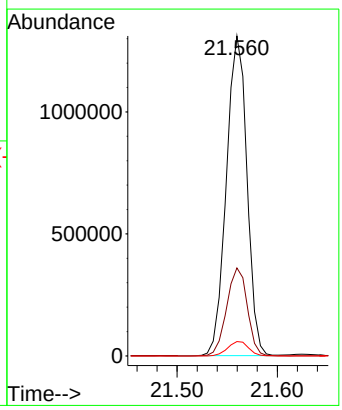
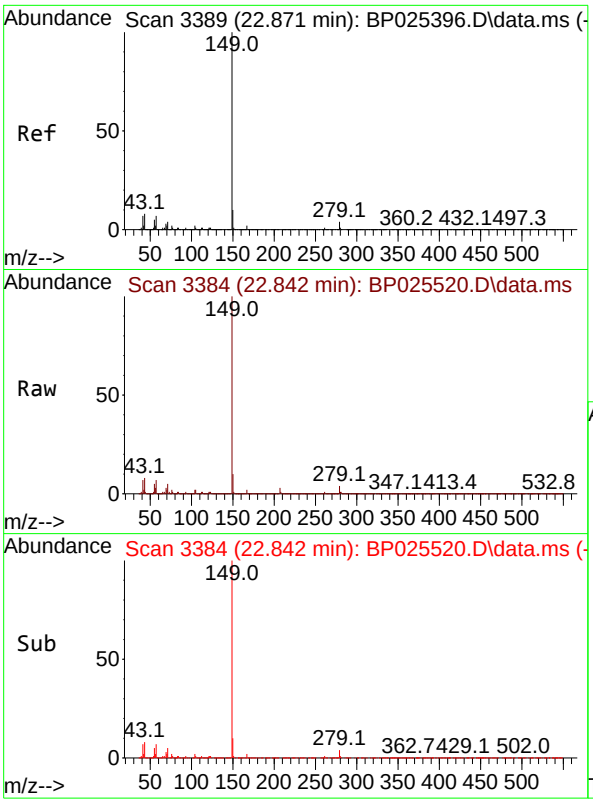


#84
Bis(2-ethylhexyl)phthalate
Concen: 48.156 ng
RT: 21.560 min Scan# 3166
Delta R.T. -0.024 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:149 Resp: 1867112

Ion	Ratio	Lower	Upper
149	100		
167	27.5	22.1	33.1
279	4.5	3.8	5.6





#85
Di-n-octyl phthalate
Concen: 49.169 ng
RT: 22.842 min Scan# 3
Delta R.T. -0.029 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:149 Resp: 327912

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	8.3	6.3	9.5

Instrument :
BNA_P
ClientSampleId :
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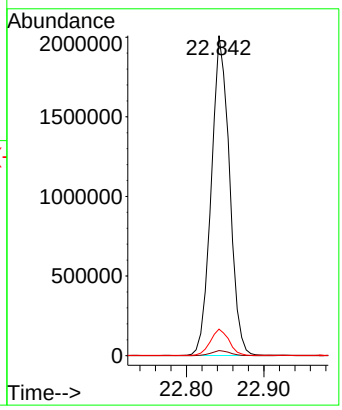
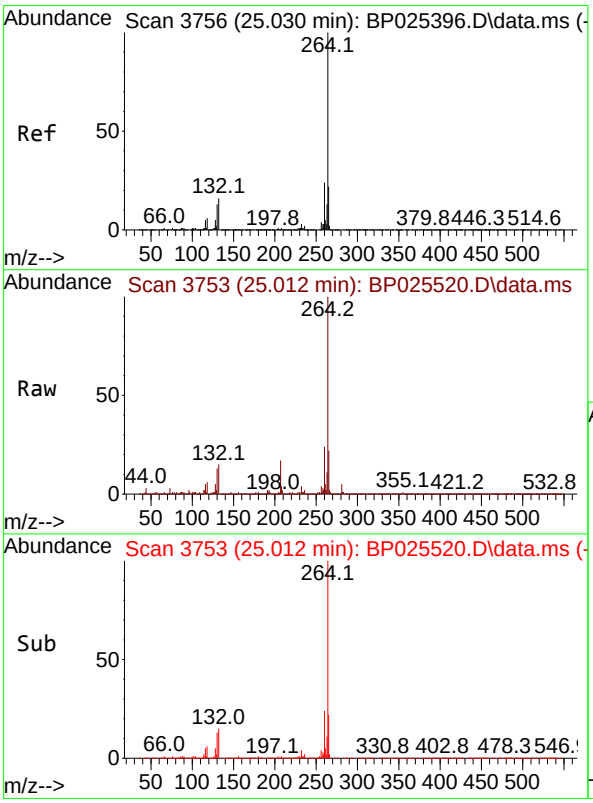
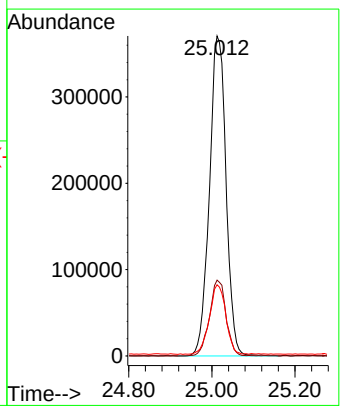


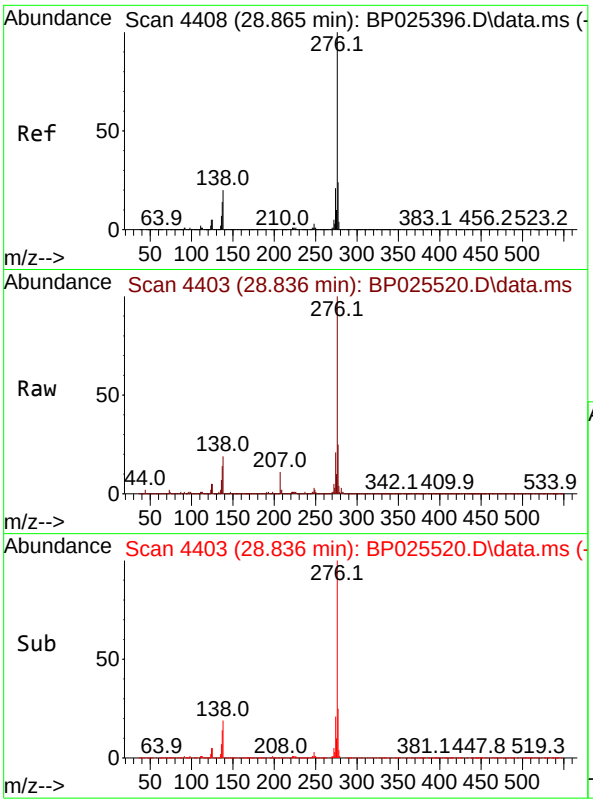


#86
Perylene-d12
Concen: 20.000 ng
RT: 25.012 min Scan# 3753
Delta R.T. -0.018 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:264 Resp: 1028739

Ion	Ratio	Lower	Upper
264	100		
260	23.7	19.3	28.9
265	22.2	17.4	26.0

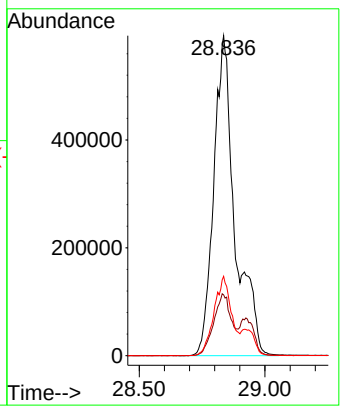




#87
Indeno(1,2,3-cd)pyrene
Concen: 46.056 ng m
RT: 28.836 min Scan# 4
Delta R.T. -0.029 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:276 Resp: 347465

Ion	Ratio	Lower	Upper
276	100		
138	16.2	12.9	19.3
277	20.5	17.0	25.6



Instrument :
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ClientSampleId :
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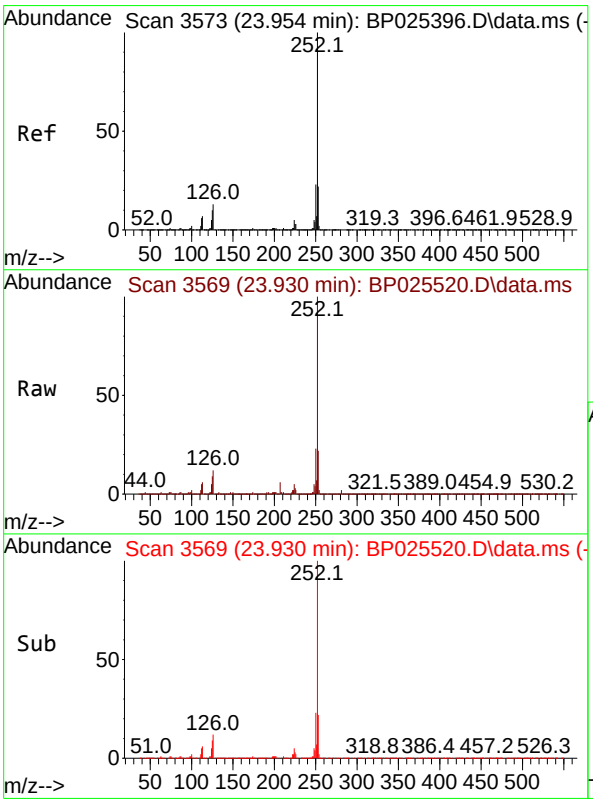
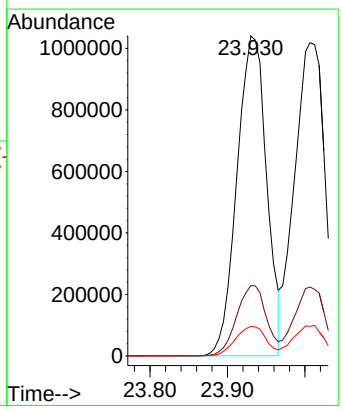
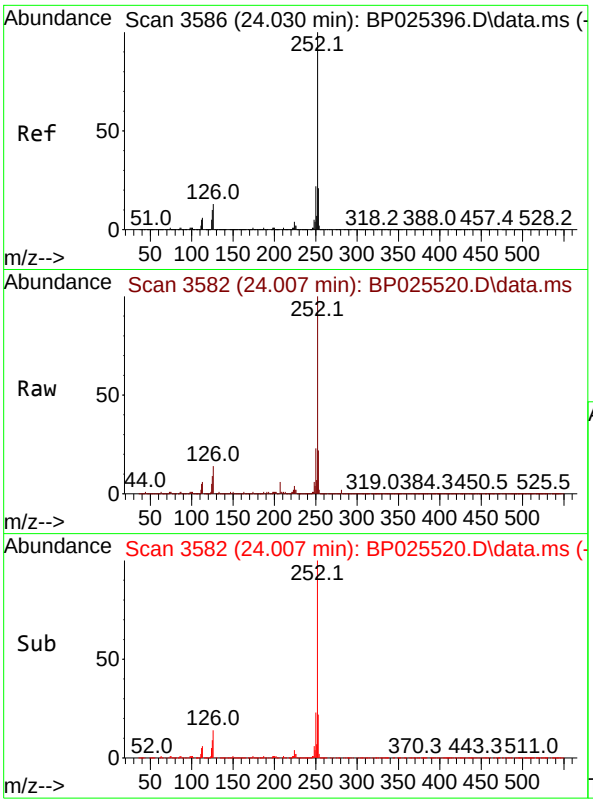


#88
Benzo(b)fluoranthene
Concen: 45.628 ng
RT: 23.930 min Scan# 3569
Delta R.T. -0.024 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:252 Resp: 2767890

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.7	26.5
125	9.2	7.9	11.9





#89
Benzo(k)fluoranthene
Concen: 46.426 ng
RT: 24.007 min Scan# 3
Delta R.T. -0.024 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:252 Resp: 281819

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.1	25.7
125	9.5	7.8	11.6

Instrument :
BNA_P
ClientSampleId :
38M-NMS

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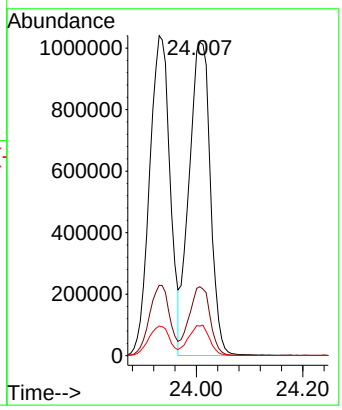
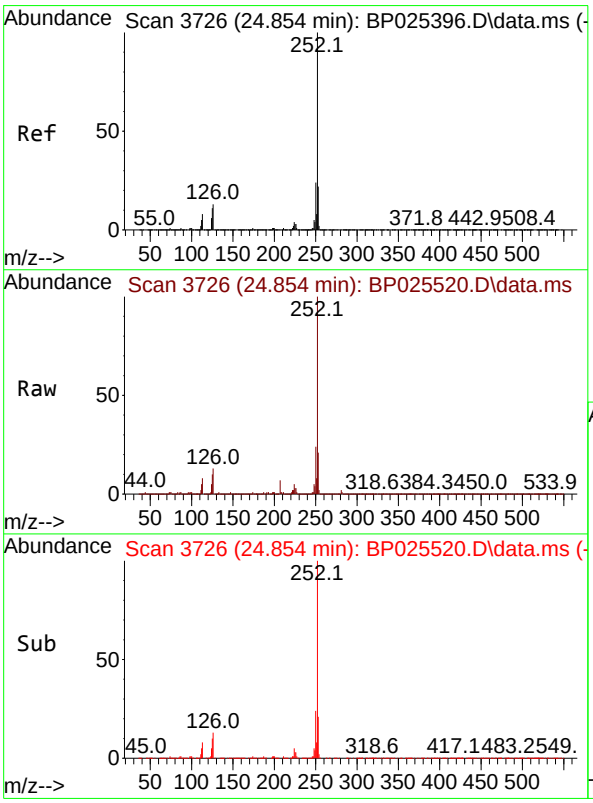
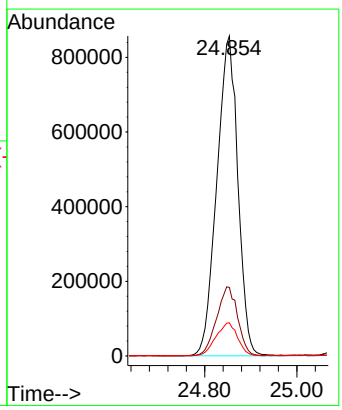


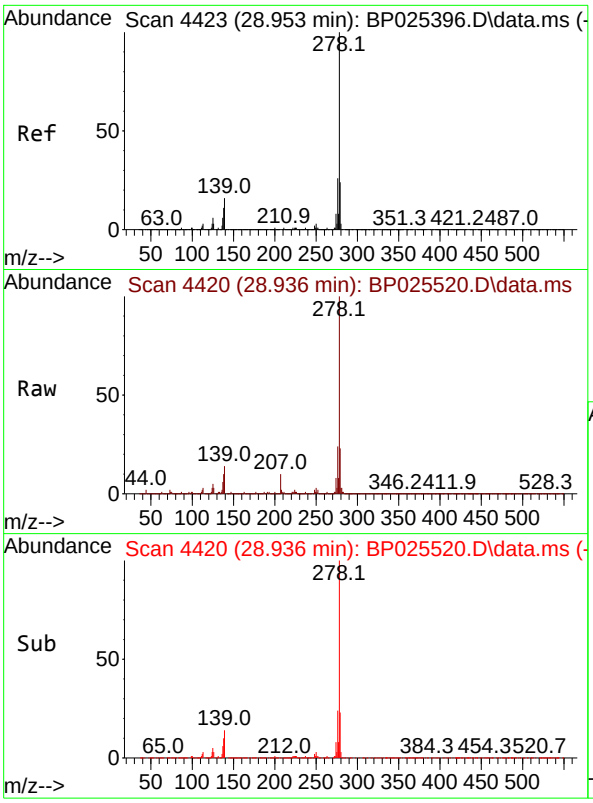


#90
Benzo(a)pyrene
Concen: 45.835 ng
RT: 24.854 min Scan# 3726
Delta R.T. -0.000 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:252 Resp: 2706532

Ion	Ratio	Lower	Upper
252	100		
253	21.4	17.5	26.3
125	10.4	8.7	13.1

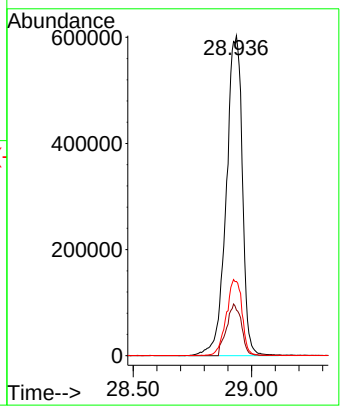




#91
Dibenzo(a,h)anthracene
Concen: 46.156 ng
RT: 28.936 min Scan# 4
Delta R.T. -0.018 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:278 Resp: 284564

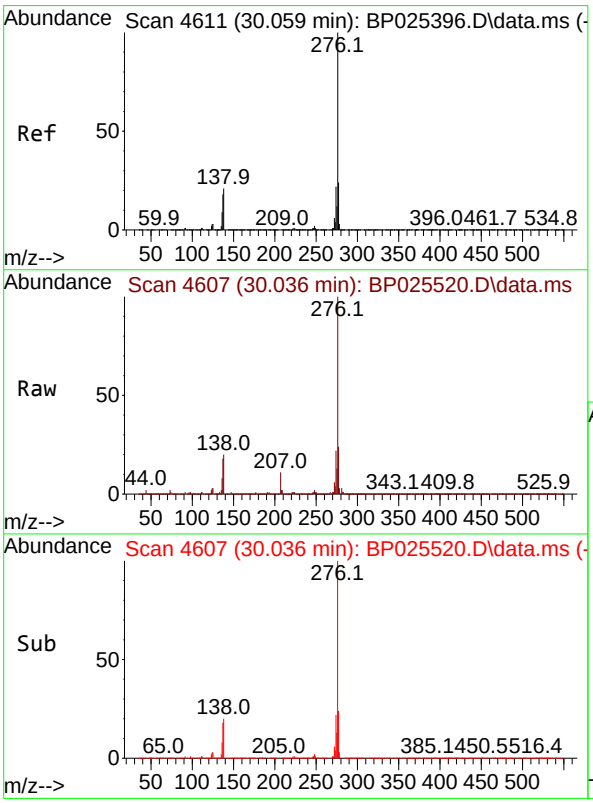
Ion	Ratio	Lower	Upper
278	100		
139	14.2	13.0	19.4
279	23.2	19.4	29.2



Instrument :
BNA_P
ClientSampleId :
38M-NMS

Manual Integrations
APPROVED

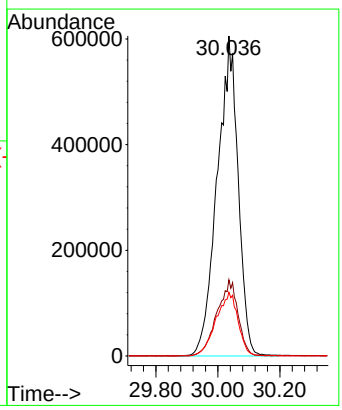
Reviewed By :Rahul Chavli 08/21/2025
Supervised By :Jagrut Upadhyay 08/21/2025



#92
Benzo(g,h,i)perylene
Concen: 46.657 ng
RT: 30.036 min Scan# 4607
Delta R.T. -0.024 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:276 Resp: 2827568

Ion	Ratio	Lower	Upper
276	100		
277	23.8	19.4	29.0
138	19.9	16.7	25.1



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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/04/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	22BP-WMSD	SDG No.:	Q2819
Lab Sample ID:	Q2819-03MSD	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	85.8
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
BP025517.D	1	08/14/25 08:40	08/20/25 21:52	PB169242

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
100-52-7	Benzaldehyde	1100		180	310	380	ug/Kg
108-95-2	Phenol	1900		25.7	150	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1800		28.2	150	200	ug/Kg
95-57-8	2-Chlorophenol	1900		28.4	150	200	ug/Kg
95-48-7	2-Methylphenol	1800		34.8	150	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1800		43.6	150	200	ug/Kg
98-86-2	Acetophenone	1800		34.3	150	200	ug/Kg
65794-96-9	3+4-Methylphenols	1800		47.8	310	380	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1700		55.1	93.0	93.0	ug/Kg
67-72-1	Hexachloroethane	1900		20.5	150	200	ug/Kg
98-95-3	Nitrobenzene	1900		21.3	150	200	ug/Kg
78-59-1	Isophorone	1800		38.1	150	200	ug/Kg
88-75-5	2-Nitrophenol	1900		67.7	150	200	ug/Kg
105-67-9	2,4-Dimethylphenol	1800		75.3	150	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1800		35.8	150	200	ug/Kg
120-83-2	2,4-Dichlorophenol	1900		32.9	150	200	ug/Kg
91-20-3	Naphthalene	1800		26.4	150	200	ug/Kg
106-47-8	4-Chloroaniline	880		41.1	150	200	ug/Kg
87-68-3	Hexachlorobutadiene	1900		29.4	150	200	ug/Kg
105-60-2	Caprolactam	1800		60.6	310	380	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1900		33.4	150	200	ug/Kg
91-57-6	2-Methylnaphthalene	1700		29.8	150	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	4000	E	130	310	380	ug/Kg
88-06-2	2,4,6-Trichlorophenol	2000		23.0	150	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	2000		33.8	150	200	ug/Kg
92-52-4	1,1-Biphenyl	1900		25.3	150	200	ug/Kg
91-58-7	2-Chloronaphthalene	1800		26.2	150	200	ug/Kg
88-74-4	2-Nitroaniline	2000		55.9	150	200	ug/Kg
131-11-3	Dimethylphthalate	1800		31.5	150	200	ug/Kg

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/04/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	22BP-WMSD	SDG No.:	Q2819
Lab Sample ID:	Q2819-03MSD	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	85.8
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
BP025517.D	1	08/14/25 08:40	08/20/25 21:52	PB169242

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1900		33.6	150	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	1900		39.1	150	200	ug/Kg
99-09-2	3-Nitroaniline	1200		53.5	150	200	ug/Kg
83-32-9	Acenaphthene	1800		24.8	150	200	ug/Kg
51-28-5	2,4-Dinitrophenol	4600	E	270	310	380	ug/Kg
100-02-7	4-Nitrophenol	4000	E	120	310	380	ug/Kg
132-64-9	Dibenzofuran	1800		26.4	150	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	2000		58.2	150	200	ug/Kg
84-66-2	Diethylphthalate	1900		32.9	150	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1800		31.0	150	200	ug/Kg
86-73-7	Fluorene	1800		29.4	150	200	ug/Kg
100-01-6	4-Nitroaniline	1900		74.6	150	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	2000		120	310	380	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1800		38.2	150	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1800		32.3	150	200	ug/Kg
118-74-1	Hexachlorobenzene	1800		29.4	150	200	ug/Kg
1912-24-9	Atrazine	1900		39.5	150	200	ug/Kg
87-86-5	Pentachlorophenol	4000	E	59.6	310	380	ug/Kg
85-01-8	Phenanthrene	1800		24.3	150	200	ug/Kg
120-12-7	Anthracene	1800		38.7	150	200	ug/Kg
86-74-8	Carbazole	1800		36.3	150	200	ug/Kg
84-74-2	Di-n-butylphthalate	1900		55.7	150	200	ug/Kg
206-44-0	Fluoranthene	1800		34.9	150	200	ug/Kg
129-00-0	Pyrene	1900		41.8	150	200	ug/Kg
85-68-7	Butylbenzylphthalate	2000		83.0	150	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1300		42.7	310	380	ug/Kg
56-55-3	Benzo(a)anthracene	1900		26.7	150	200	ug/Kg
218-01-9	Chrysene	1900		23.1	150	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	2000		68.8	150	200	ug/Kg
117-84-0	Di-n-octyl phthalate	2000		100	310	380	ug/Kg
205-99-2	Benzo(b)fluoranthene	1900		22.1	150	200	ug/Kg

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/04/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	22BP-WMSD	SDG No.:	Q2819
Lab Sample ID:	Q2819-03MSD	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	85.8
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
BP025517.D	1	08/14/25 08:40	08/20/25 21:52	PB169242

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1900		26.0	150	200	ug/Kg
50-32-8	Benzo(a)pyrene	1900		34.3	150	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1900		33.8	150	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1900		31.8	150	200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1900		29.9	150	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1900		29.8	150	200	ug/Kg
123-91-1	1,4-Dioxane	1600		52.5	150	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1900		31.8	150	200	ug/Kg
SURROGATES							
367-12-4	2-Fluorophenol	103		35 - 115		69%	SPK: 150
13127-88-3	Phenol-d6	101		34 - 127		68%	SPK: 150
4165-60-0	Nitrobenzene-d5	65.6		37 - 122		66%	SPK: 100
321-60-8	2-Fluorobiphenyl	60.6		44 - 115		61%	SPK: 100
118-79-6	2,4,6-Tribromophenol	104		39 - 132		69%	SPK: 150
1718-51-0	Terphenyl-d14	60.7		54 - 127		61%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	185000	7.79				
1146-65-2	Naphthalene-d8	722000	10.56				
15067-26-2	Acenaphthene-d10	447000	14.396				
1517-22-2	Phenanthrene-d10	890000	17.207				
1719-03-5	Chrysene-d12	904000	21.654				
1520-96-3	Perylene-d12	1030000	25.019				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025517.D
Acq On : 20 Aug 2025 21:52
Operator : CG/JU
Sample : Q2819-03MSD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 21 01:38:37 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
22BP-WMSD

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 08/21/2025
Supervised By :Jagrut Upadhyay 08/21/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.790	152	184860	20.000	ng		0.00
21) Naphthalene-d8	10.560	136	722280	20.000	ng		0.00
39) Acenaphthene-d10	14.396	164	447048	20.000	ng		-0.01
64) Phenanthrene-d10	17.207	188	890323	20.000	ng		0.00
76) Chrysene-d12	21.654	240	903947	20.000	ng		0.00
86) Perylene-d12	25.019	264	1025346	20.000	ng		-0.01
System Monitoring Compounds							
5) 2-Fluorophenol	5.408	112	1144678	102.833	ng		0.00
7) Phenol-d6	6.967	99	1445596	101.293	ng		0.00
23) Nitrobenzene-d5	8.931	82	936777	65.608	ng		0.00
42) 2,4,6-Tribromophenol	15.919	330	623372	103.597	ng		0.00
45) 2-Fluorobiphenyl	13.019	172	1983638	60.642	ng		0.00
79) Terphenyl-d14	19.925	244	2999909	60.718	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.331	88	182983	41.967	ng		98
3) Pyridine	3.726	79	493698	41.368	ng		95
4) n-Nitrosodimethylamine	3.631	42	247455	50.295	ng		93
6) Aniline	7.119	93	649735	33.790	ng		97
8) 2-Chlorophenol	7.361	128	608568	48.448	ng		100
9) Benzaldehyde	6.937	77	285008	28.504	ng		97
10) Phenol	6.996	94	715775	47.797	ng		96
11) bis(2-Chloroethyl)ether	7.214	93	538406	46.128	ng		97
12) 1,3-Dichlorobenzene	7.678	146	650335	46.952	ng		99
13) 1,4-Dichlorobenzene	7.825	146	649360	45.868	ng		100
14) 1,2-Dichlorobenzene	8.137	146	625644	45.653	ng		99
15) Benzyl Alcohol	8.025	79	528480	46.605	ng		97
16) 2,2'-oxybis(1-Chloropr...	8.308	45	736456	47.100	ng		98
17) 2-Methylphenol	8.225	107	484474	46.581	ng		99
18) Hexachloroethane	8.861	117	249463	47.925	ng		97
19) n-Nitroso-di-n-propyla...	8.584	70	405488	42.894	ng		95
20) 3+4-Methylphenols	8.549	107	658121	45.649	ng		96
22) Acetophenone	8.596	105	852338	47.056	ng	#	97
24) Nitrobenzene	8.966	77	613843	48.104	ng		99
25) Isophorone	9.496	82	1155702	45.736	ng		98
26) 2-Nitrophenol	9.672	139	323093	49.335	ng		96
27) 2,4-Dimethylphenol	9.737	122	533447	47.366	ng		96
28) bis(2-Chloroethoxy)met...	9.966	93	707355	46.309	ng		99
29) 2,4-Dichlorophenol	10.213	162	555155	49.622	ng		98
30) 1,2,4-Trichlorobenzene	10.419	180	572771	46.702	ng		97
31) Naphthalene	10.613	128	1739431	46.334	ng		99
32) Benzoic acid	9.890	122	431194	51.860	ng		96
33) 4-Chloroaniline	10.708	127	377734	22.779	ng		99
34) Hexachlorobutadiene	10.902	225	370916	48.563	ng		98
35) Caprolactam	11.502	113	187670	45.747	ng		95
36) 4-Chloro-3-methylphenol	11.837	107	615878	47.974	ng		97
37) 2-Methylnaphthalene	12.213	142	1096821	44.896	ng		98
38) 1-Methylnaphthalene	12.437	142	1157054	44.535	ng		100
40) 1,2,4,5-Tetrachloroben...	12.584	216	625693	48.461	ng		98
41) Hexachlorocyclopentadiene	12.566	237	802842	102.943	ng		99
43) 2,4,6-Trichlorophenol	12.825	196	442620	50.780	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025517.D
Acq On : 20 Aug 2025 21:52
Operator : CG/JU
Sample : Q2819-03MSD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
22BP-WMSD

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 08/21/2025
Supervised By :Jagrut Upadhyay 08/21/2025

Quant Time: Aug 21 01:38:37 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.902	196	490354	51.330	ng	99
46) 1,1'-Biphenyl	13.231	154	1568313	48.304	ng	99
47) 2-Chloronaphthalene	13.272	162	1201838	47.550	ng	99
48) 2-Nitroaniline	13.466	65	380529	51.670	ng	98
49) Acenaphthylene	14.119	152	2000907	47.841	ng	100
50) Dimethylphthalate	13.860	163	1548844	47.312	ng	100
51) 2,6-Dinitrotoluene	13.966	165	342534	49.643	ng	95
52) Acenaphthene	14.466	154	1145454	46.659	ng	98
53) 3-Nitroaniline	14.296	138	234663	30.228	ng	92
54) 2,4-Dinitrophenol	14.513	184	436661	118.504	ng	98
55) Dibenzofuran	14.807	168	1839493	47.393	ng	98
56) 4-Nitrophenol	14.625	139	653354	102.419	ng	93
57) 2,4-Dinitrotoluene	14.766	165	502093	51.002	ng	97
58) Fluorene	15.466	166	1413344	46.148	ng	99
59) 2,3,4,6-Tetrachlorophenol	15.037	232	422581	50.097	ng	98
60) Diethylphthalate	15.243	149	1602496	48.175	ng	100
61) 4-Chlorophenyl-phenyle...	15.460	204	704890	46.278	ng	97
62) 4-Nitroaniline	15.484	138	380825	47.851	ng	96
63) Azobenzene	15.760	77	1553558	54.544	ng	98
65) 4,6-Dinitro-2-methylph...	15.548	198	287397	51.785	ng	92
66) n-Nitrosodiphenylamine	15.678	169	1274387	46.939	ng	99
67) 4-Bromophenyl-phenylether	16.372	248	460977	47.077	ng	95
68) Hexachlorobenzene	16.495	284	537114	47.319	ng	100
69) Atrazine	16.660	200	502043	49.377	ng	98
70) Pentachlorophenol	16.854	266	733038	102.305	ng	98
71) Phenanthrene	17.254	178	2332780	47.697	ng	100
72) Anthracene	17.348	178	2303551	46.121	ng	100
73) Carbazole	17.625	167	2239338	47.601	ng	99
74) Di-n-butylphthalate	18.219	149	2892663	49.977	ng	100
75) Fluoranthene	19.336	202	2780027	47.653	ng	99
77) Benzidine	19.531	184	1311867	42.524	ng	99
78) Pyrene	19.713	202	2862551	48.721	ng	99
80) Butylbenzylphthalate	20.654	149	1352098	50.777	ng	99
81) Benzo(a)anthracene	21.636	228	2870654	48.153	ng	100
82) 3,3'-Dichlorobenzidine	21.548	252	747438	33.263	ng	99
83) Chrysene	21.701	228	2684186	48.078	ng	99
84) Bis(2-ethylhexyl)phtha...	21.572	149	1972886	50.332	ng	99
85) Di-n-octyl phthalate	22.860	149	3483541	51.668	ng	99
87) Indeno(1,2,3-cd)pyrene	28.883	276	3754265m	49.927	ng	
88) Benzo(b)fluoranthene	23.942	252	3016187	49.886	ng	99
89) Benzo(k)fluoranthene	24.024	252	2975796	49.184	ng	99
90) Benzo(a)pyrene	24.866	252	2906291	49.381	ng	100
91) Dibenzo(a,h)anthracene	28.959	278	3060770	49.809	ng	98
92) Benzo(g,h,i)perylene	30.059	276	3035965	50.261	ng	99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025517.D
Acq On : 20 Aug 2025 21:52
Operator : CG/JU
Sample : Q2819-03MSD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 21 01:38:37 2025
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
22BP-WMSD

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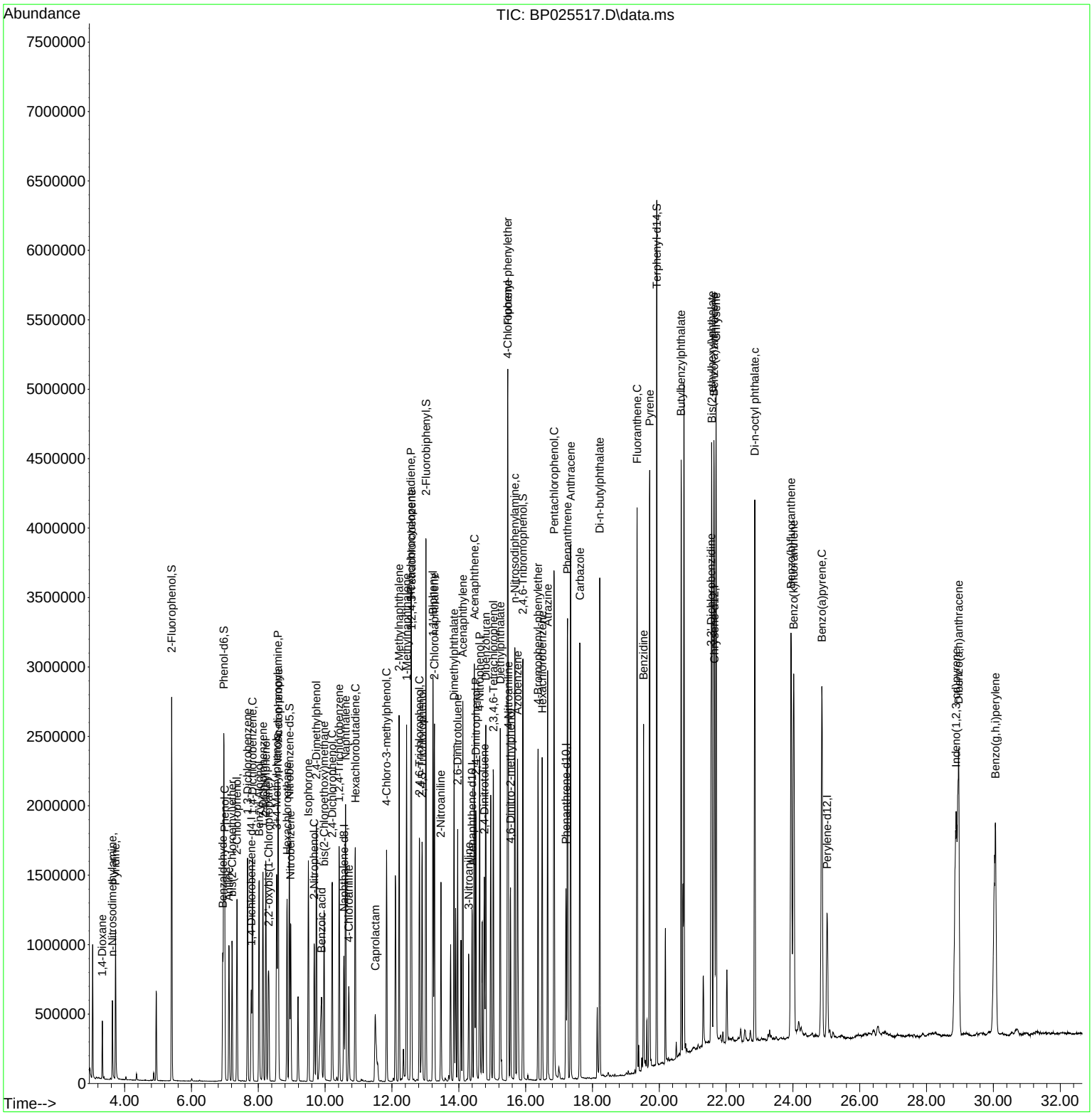
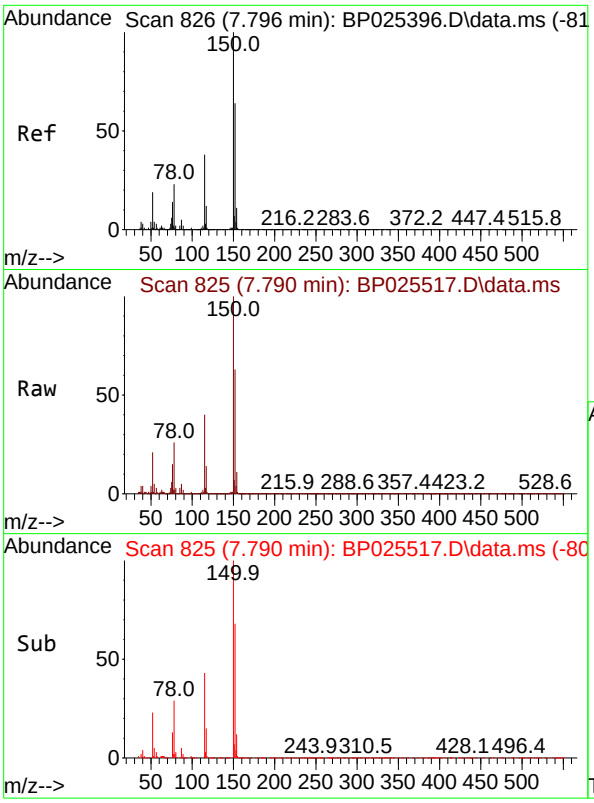
Supervised By :Jagrut Upadhyay 08/21/2025

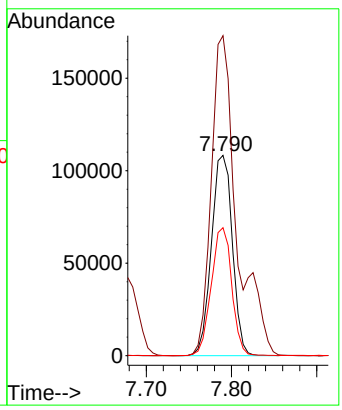




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.790 min Scan# 8
Delta R.T. -0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:152 Resp: 18486

Ion	Ratio	Lower	Upper
152	100		
150	159.8	125.9	188.9
115	63.9	48.5	72.7



Instrument :
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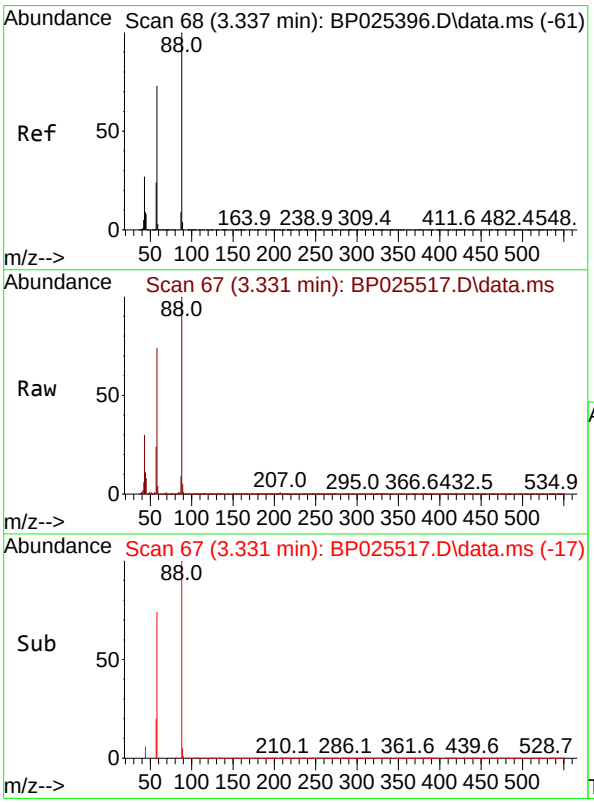
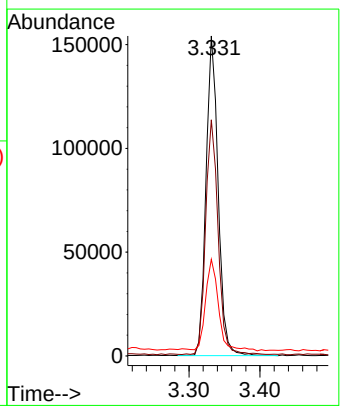
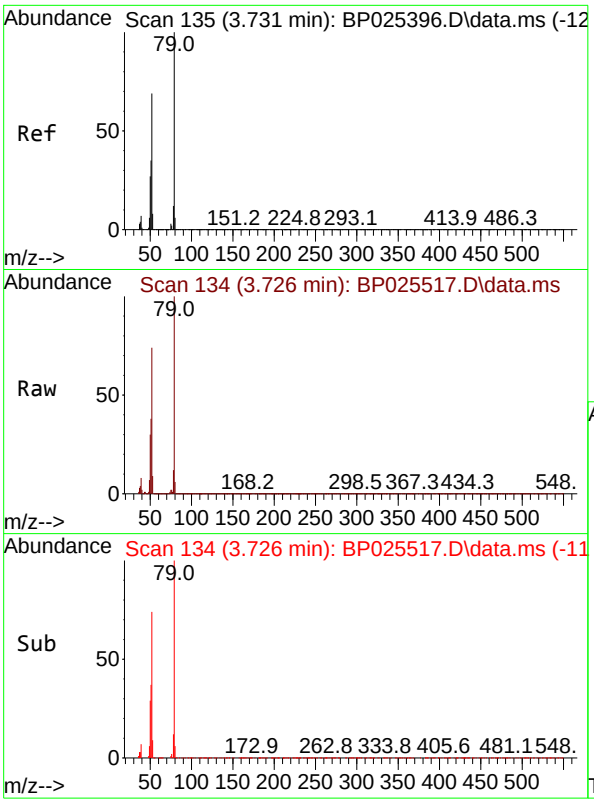


#2
1,4-Dioxane
Concen: 41.967 ng
RT: 3.331 min Scan# 67
Delta R.T. -0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion: 88 Resp: 182983

Ion	Ratio	Lower	Upper
88	100		
58	75.4	59.2	88.8
43	29.6	21.7	32.5

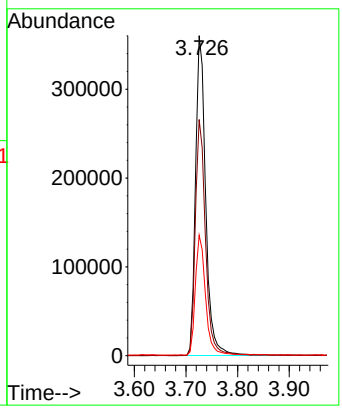




#3
Pyridine
Concen: 41.368 ng
RT: 3.726 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion: 79 Resp: 49369

Ion	Ratio	Lower	Upper
79	100		
52	73.8	55.5	83.3
51	37.6	28.3	42.5



Instrument :
BNA_P
ClientSampleId :
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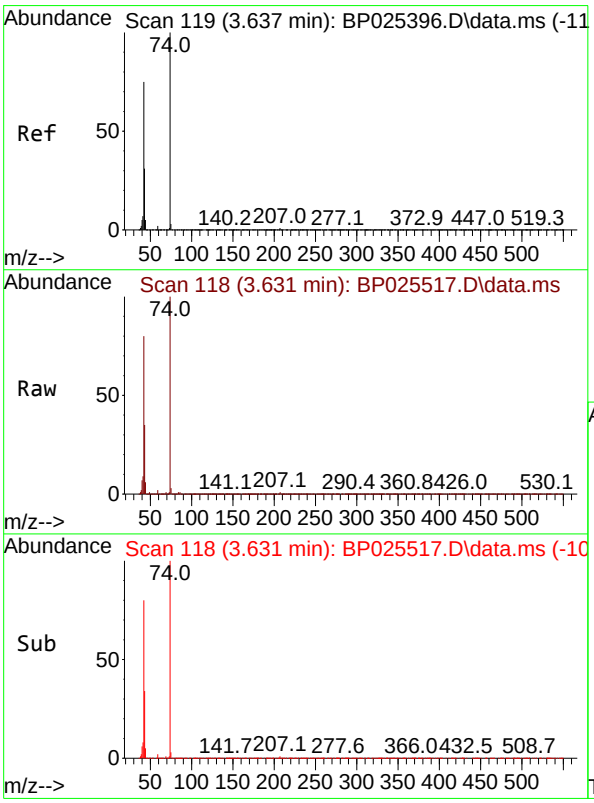
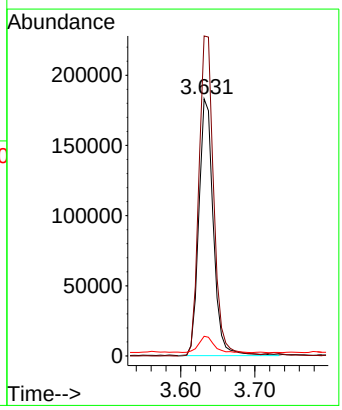
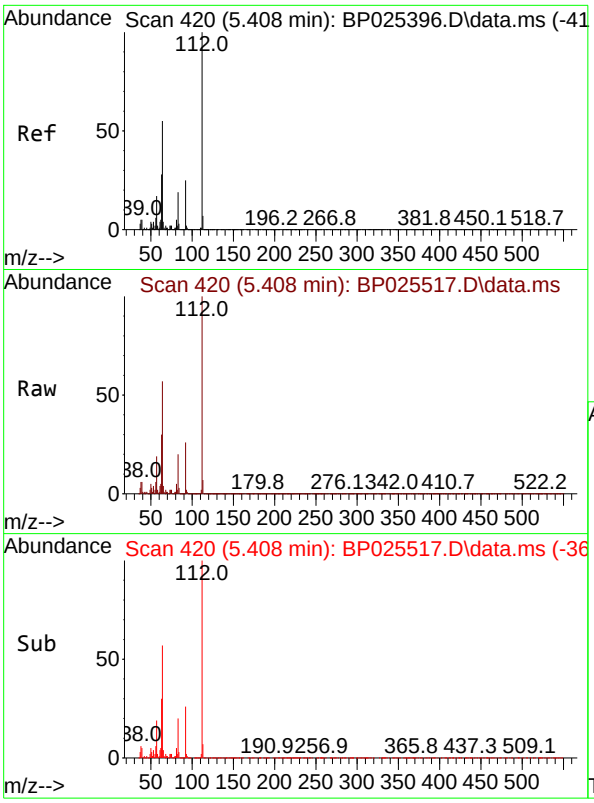


#4
n-Nitrosodimethylamine
Concen: 50.295 ng
RT: 3.631 min Scan# 118
Delta R.T. -0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion: 42 Resp: 247455

Ion	Ratio	Lower	Upper
42	100		
74	124.4	107.0	160.4
44	7.6	6.2	9.4

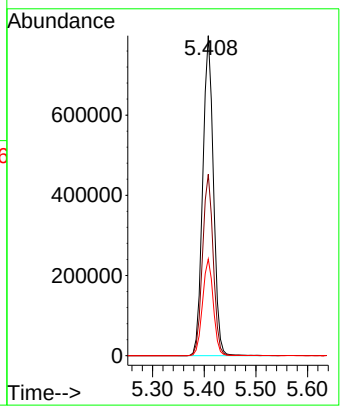




#5
2-Fluorophenol
Concen: 102.833 ng
RT: 5.408 min Scan# 4
Delta R.T. 0.000 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:112 Resp: 114467

Ion	Ratio	Lower	Upper
112	100		
64	56.7	43.8	65.8
63	30.2	22.7	34.1



Instrument :
BNA_P
ClientSampleId :
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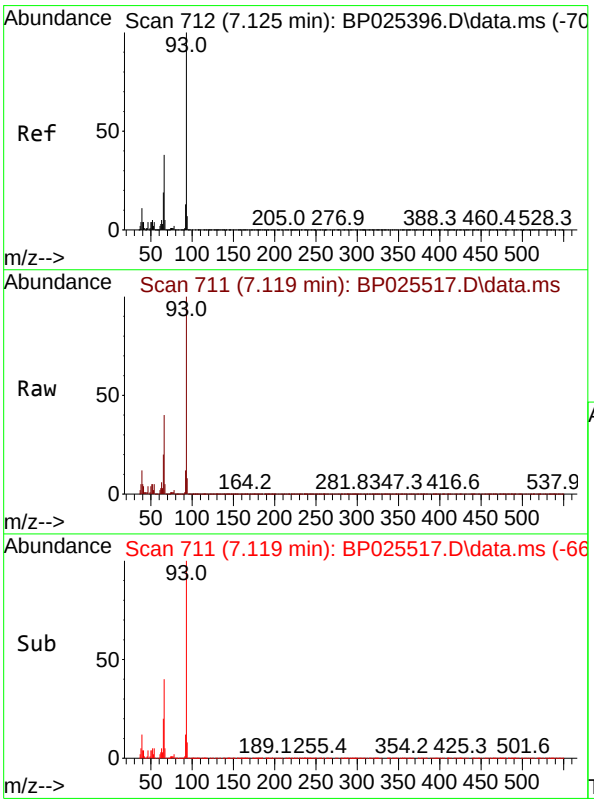
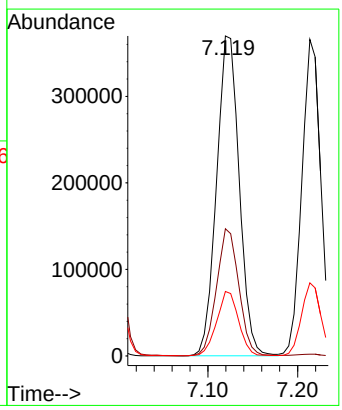
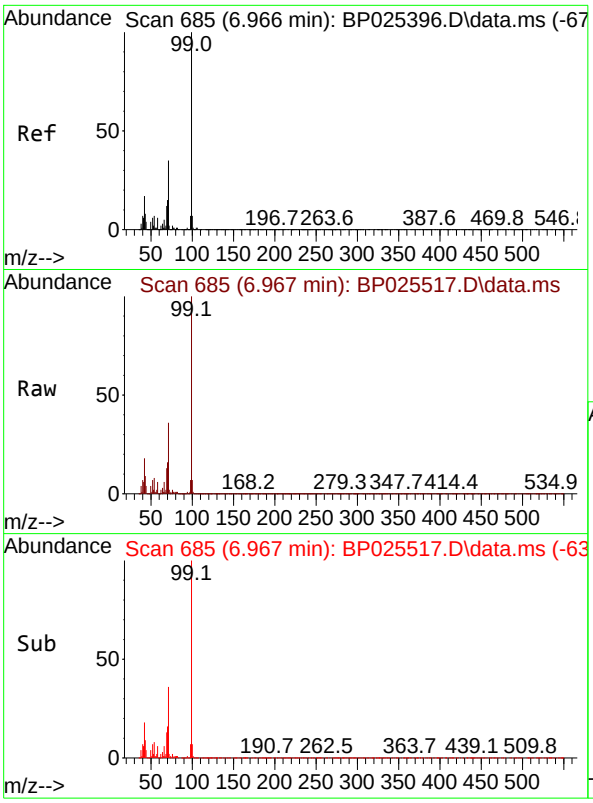


#6
Aniline
Concen: 33.790 ng
RT: 7.119 min Scan# 711
Delta R.T. -0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion: 93 Resp: 649735

Ion	Ratio	Lower	Upper
93	100		
66	39.8	30.4	45.6
65	20.1	15.3	22.9

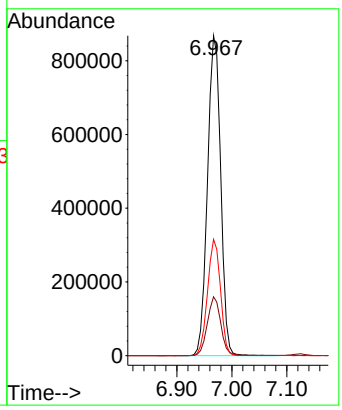




#7
Phenol-d6
Concen: 101.293 ng
RT: 6.967 min Scan# 6
Delta R.T. 0.000 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion: 99 Resp: 144559

Ion	Ratio	Lower	Upper
99	100		
42	18.4	13.7	20.5
71	36.4	28.2	42.4



Instrument :
BNA_P
ClientSampleId :
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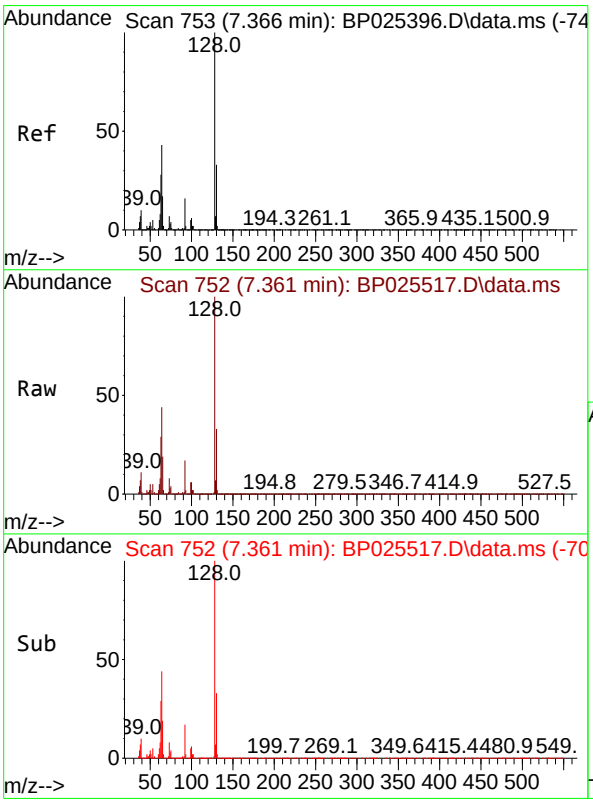
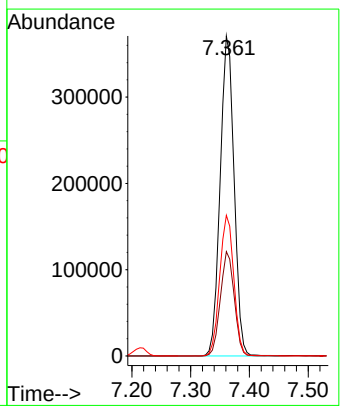
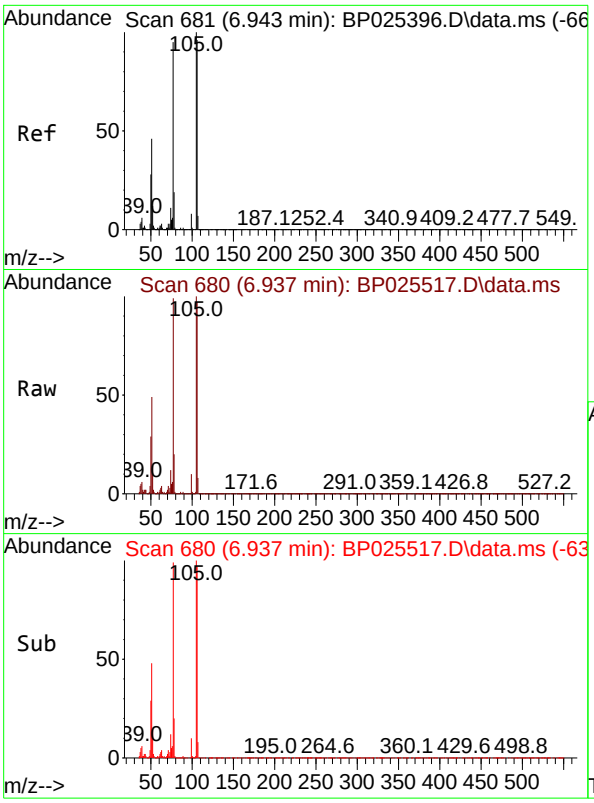


#8
2-Chlorophenol
Concen: 48.448 ng
RT: 7.361 min Scan# 752
Delta R.T. -0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:128 Resp: 608568

Ion	Ratio	Lower	Upper
128	100		
130	32.6	12.6	52.6
64	44.0	23.4	63.4

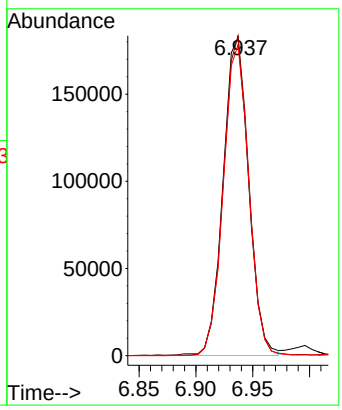




#9
Benzaldehyde
Concen: 28.504 ng
RT: 6.937 min Scan# 6
Delta R.T. -0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion: 77 Resp: 28500

Ion	Ratio	Lower	Upper
77	100		
105	100.8	84.8	124.8
106	97.9	80.5	120.5



Instrument :
BNA_P
ClientSampleId :
22BP-WMSD

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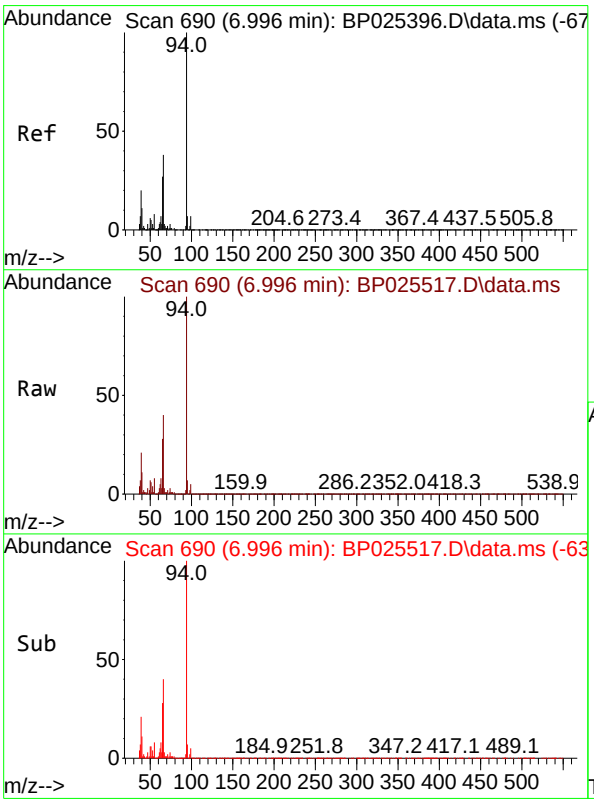
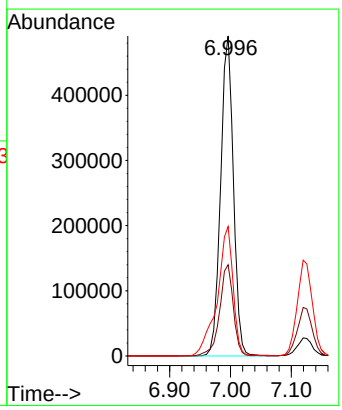
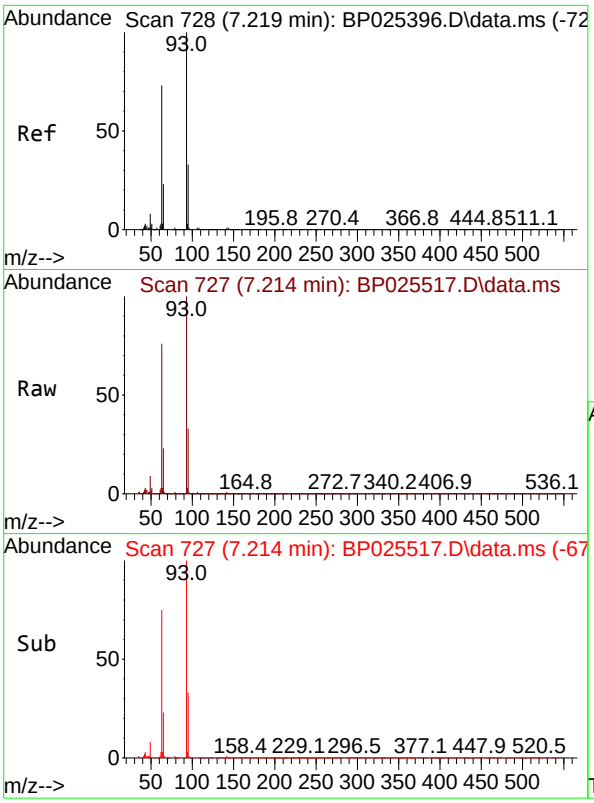


#10
Phenol
Concen: 47.797 ng
RT: 6.996 min Scan# 690
Delta R.T. 0.000 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion: 94 Resp: 715775

Ion	Ratio	Lower	Upper
94	100		
65	28.5	6.8	46.8
66	40.5	18.2	58.2

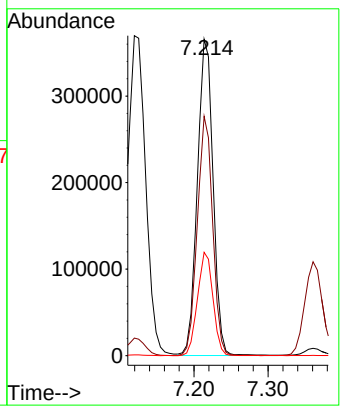




#11
bis(2-Chloroethyl)ether
Concen: 46.128 ng
RT: 7.214 min Scan# 7
Delta R.T. -0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion: 93 Resp: 53840

Ion	Ratio	Lower	Upper
93	100		
63	75.6	52.6	92.6
95	32.7	12.7	52.7



Instrument :
BNA_P
ClientSampleId :
22BP-WMSD

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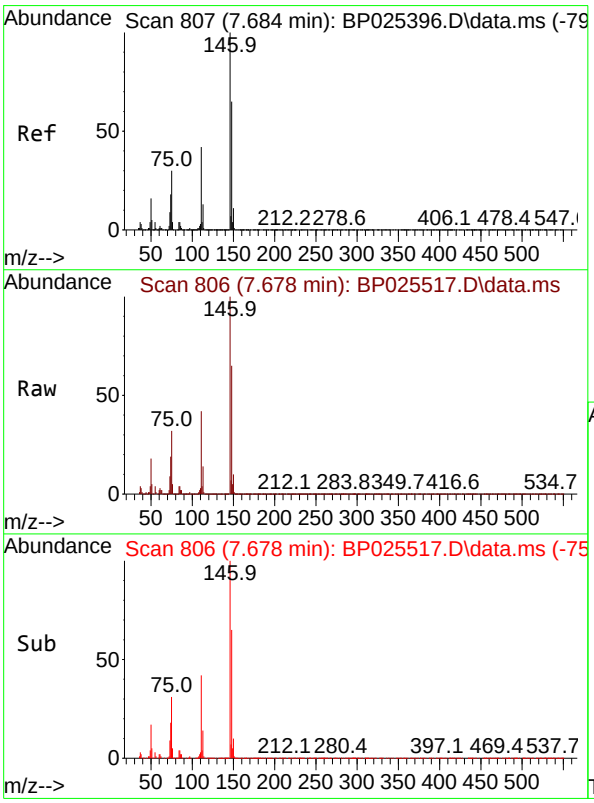
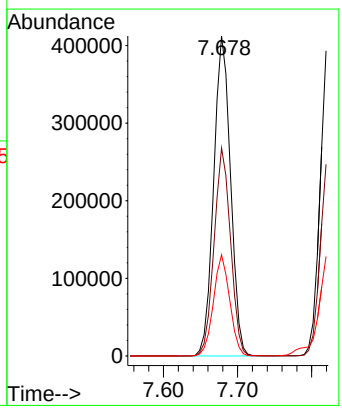
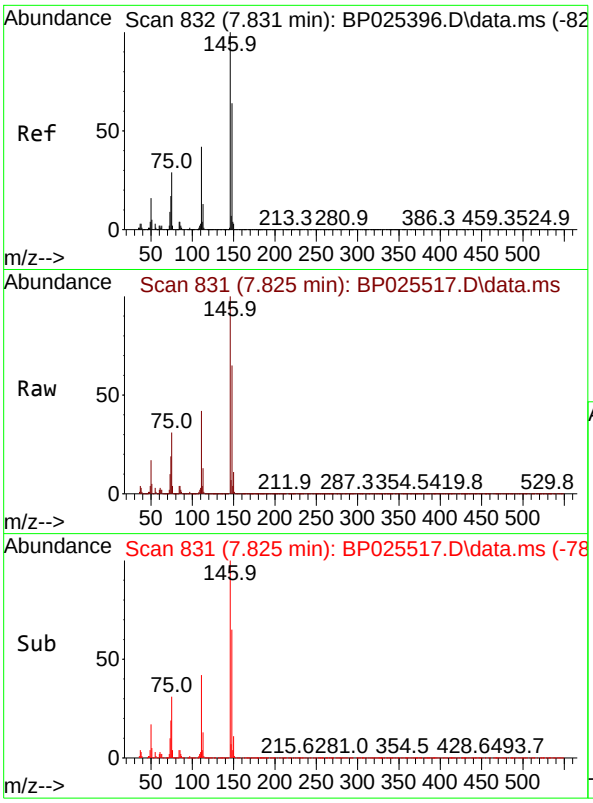


#12
1,3-Dichlorobenzene
Concen: 46.952 ng
RT: 7.678 min Scan# 806
Delta R.T. -0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:146 Resp: 650335

Ion	Ratio	Lower	Upper
146	100		
148	65.0	51.9	77.9
75	31.6	23.7	35.5

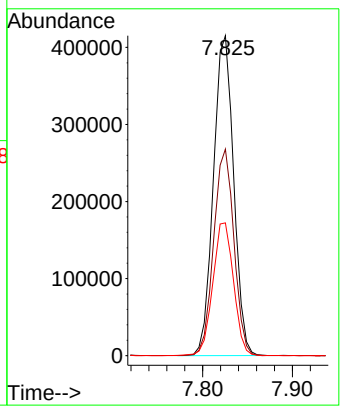




#13
1,4-Dichlorobenzene
Concen: 45.868 ng
RT: 7.825 min Scan# 8
Delta R.T. -0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:146 Resp: 64936

Ion	Ratio	Lower	Upper
146	100		
148	64.6	51.6	77.4
111	41.5	33.4	50.0



Instrument :
BNA_P
ClientSampleId :
22BP-WMSD

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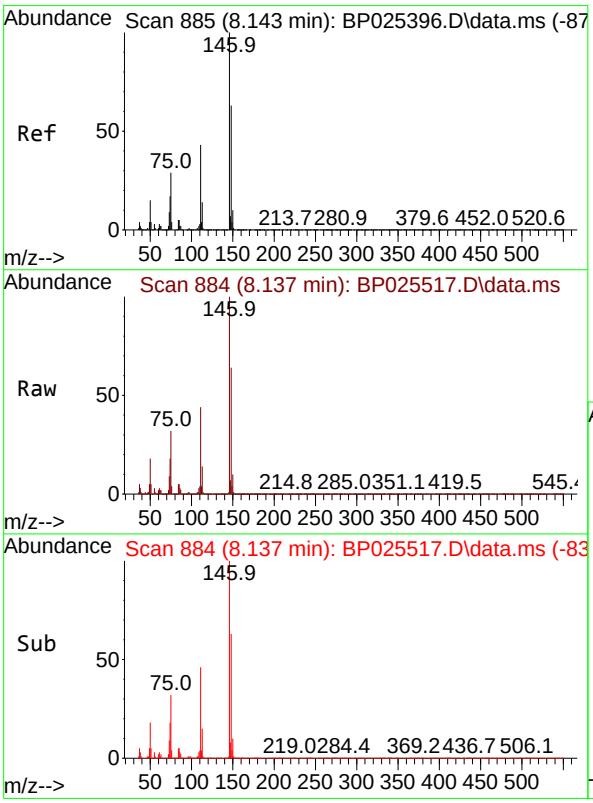
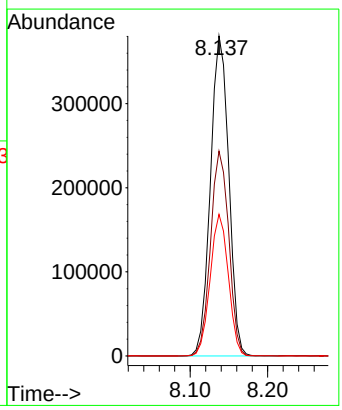
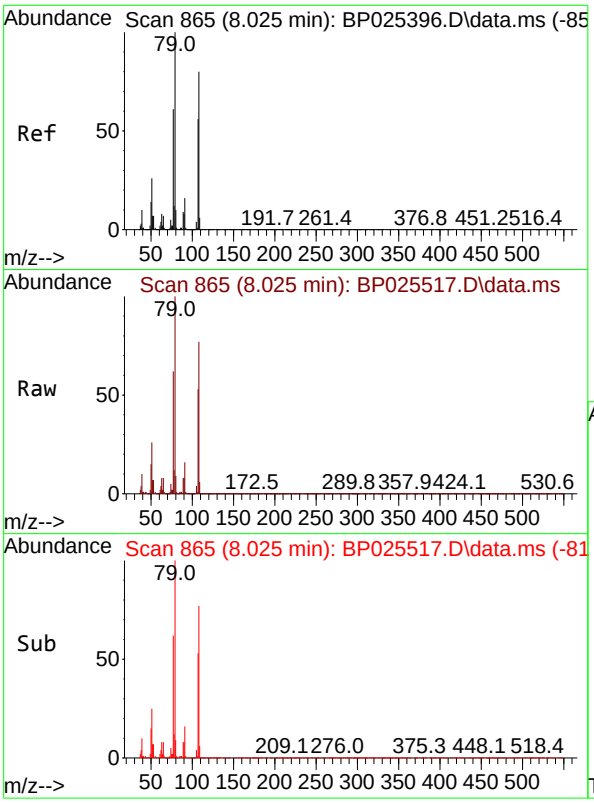


#14
1,2-Dichlorobenzene
Concen: 45.653 ng
RT: 8.137 min Scan# 884
Delta R.T. -0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:146 Resp: 625644

Ion	Ratio	Lower	Upper
146	100		
148	64.0	50.4	75.6
111	44.2	34.5	51.7





#15
Benzyl Alcohol
Concen: 46.605 ng
RT: 8.025 min Scan# 8
Delta R.T. 0.000 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion: 79 Resp: 52848

Ion	Ratio	Lower	Upper
79	100		
108	76.5	63.8	95.6
77	62.2	49.0	73.4

Instrument :
BNA_P
ClientSampleId :
22BP-WMSD

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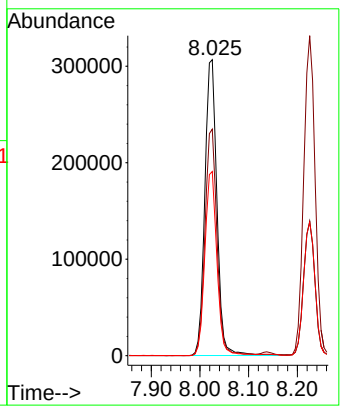
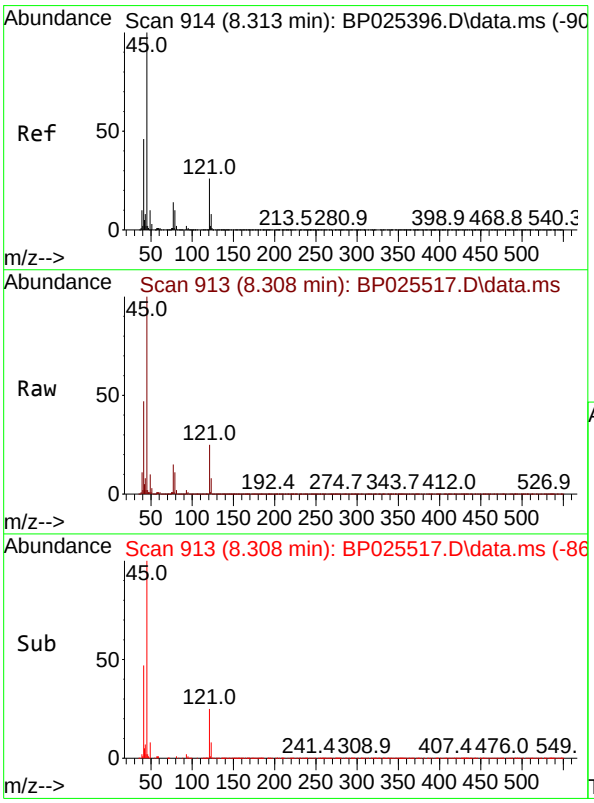
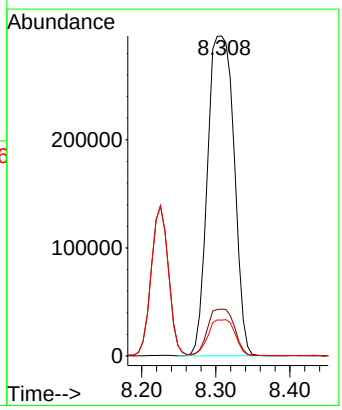


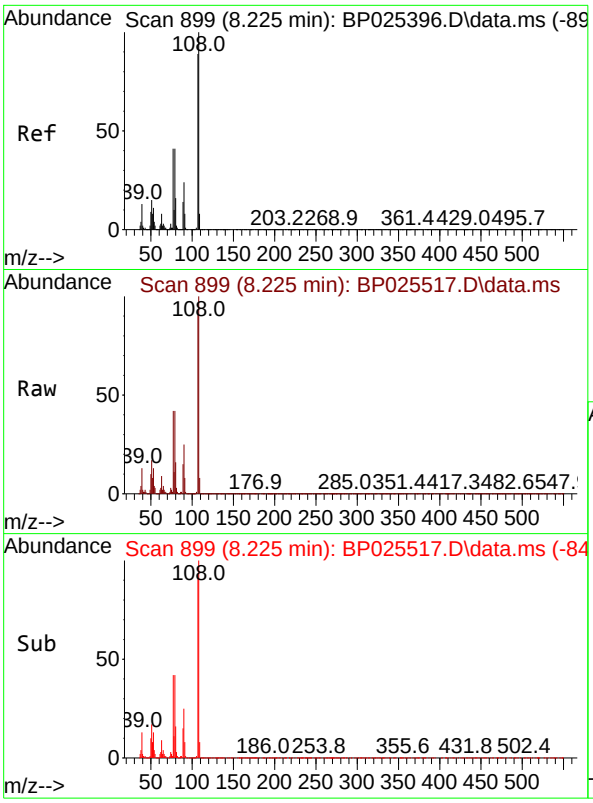


#16
2,2'-oxybis(1-Chloropropane)
Concen: 47.100 ng
RT: 8.308 min Scan# 913
Delta R.T. -0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion: 45 Resp: 736456

Ion	Ratio	Lower	Upper
45	100		
77	14.7	0.0	35.3
79	11.2	0.0	31.8

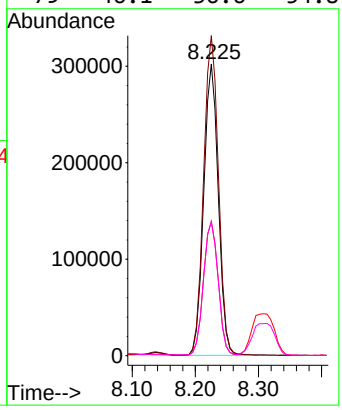




#17
2-Methylphenol
Concen: 46.581 ng
RT: 8.225 min Scan# 8
Delta R.T. 0.000 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:107 Resp: 48447

Ion	Ratio	Lower	Upper
107	100		
108	109.7	89.4	134.0
77	45.9	36.3	54.5
79	46.1	36.6	54.8



Instrument :
BNA_P
ClientSampleId :
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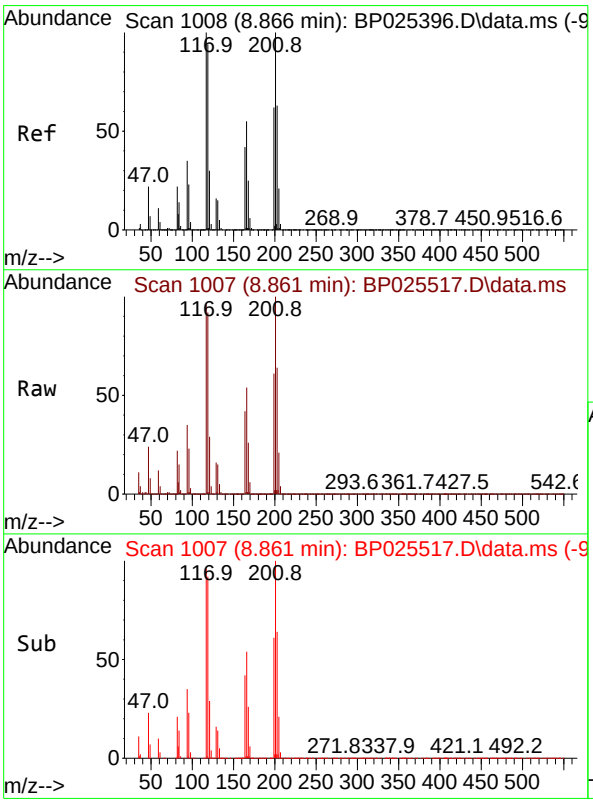
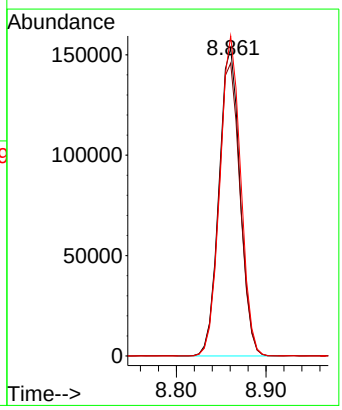
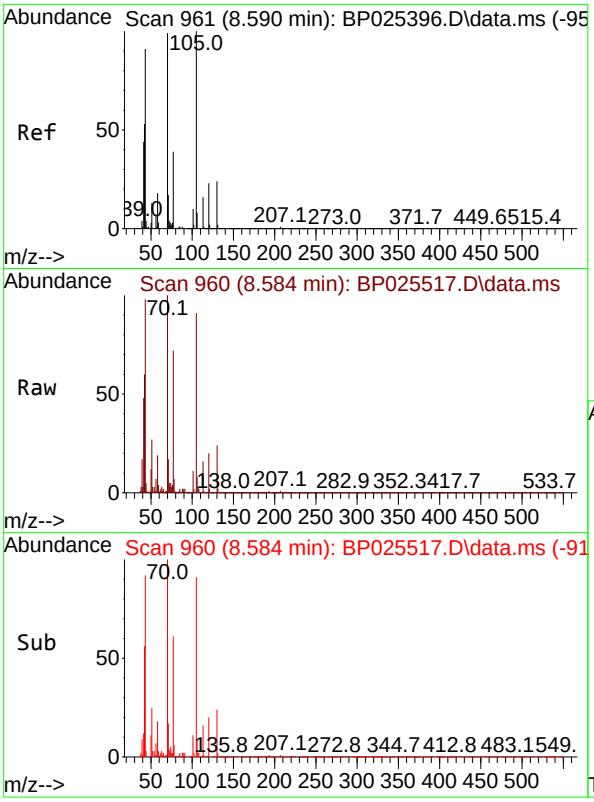


#18
Hexachloroethane
Concen: 47.925 ng
RT: 8.861 min Scan# 1007
Delta R.T. -0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:117 Resp: 249463

Ion	Ratio	Lower	Upper
117	100		
119	95.2	75.1	112.7
201	104.0	80.1	120.1

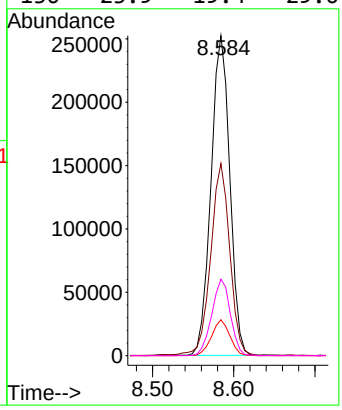




#19
n-Nitroso-di-n-propylamine
Concen: 42.894 ng
RT: 8.584 min Scan# 9
Delta R.T. -0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion: 70 Resp: 40548

Ion	Ratio	Lower	Upper
70	100		
42	60.0	43.8	65.6
101	11.3	8.5	12.7
130	23.9	19.4	29.0



Instrument :
BNA_P
ClientSampleId :
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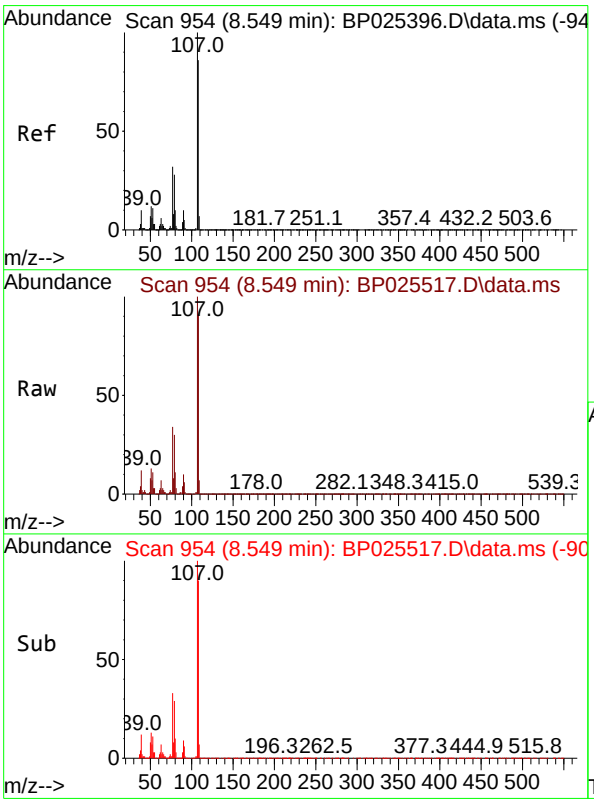
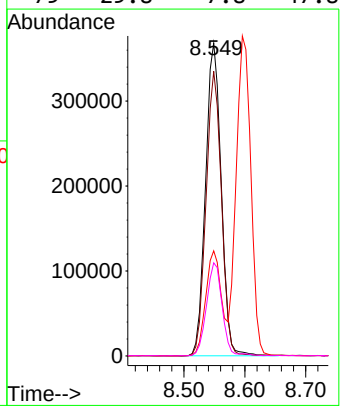
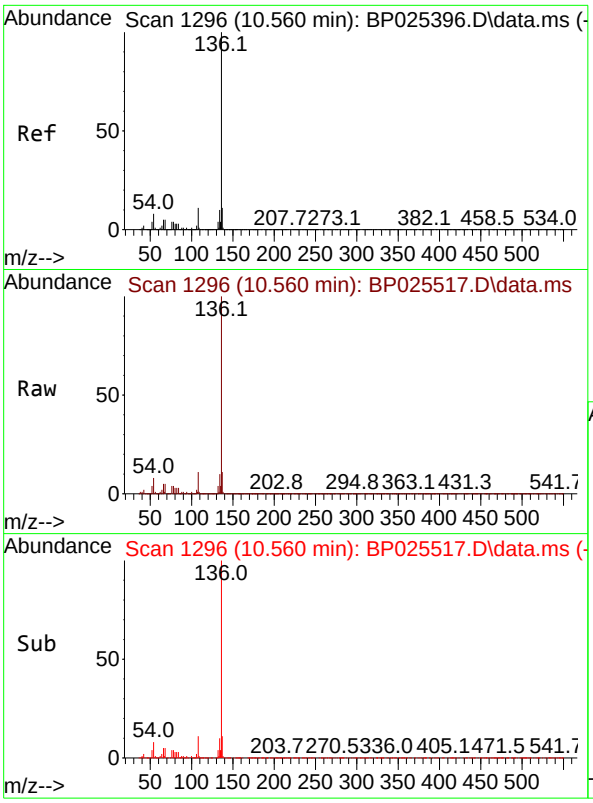


#20
3+4-Methylphenols
Concen: 45.649 ng
RT: 8.549 min Scan# 954
Delta R.T. 0.000 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:107 Resp: 658121

Ion	Ratio	Lower	Upper
107	100		
108	91.0	66.3	106.3
77	33.6	12.3	52.3
79	29.8	7.8	47.8

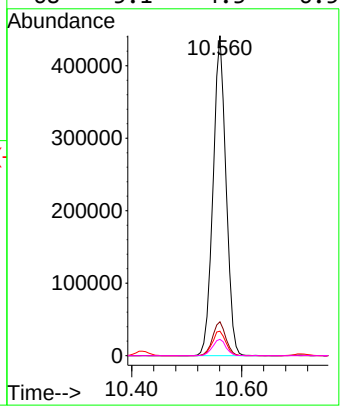




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.560 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:136 Resp: 72228

Ion	Ratio	Lower	Upper
136	100		
137	10.6	9.2	13.8
54	7.7	6.0	9.0
68	5.1	4.3	6.5



Instrument :
BNA_P
ClientSampleId :
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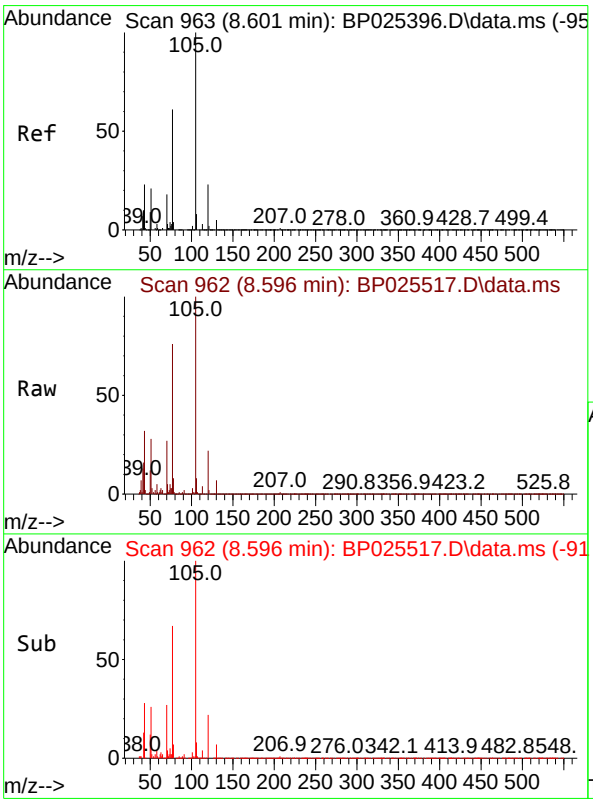
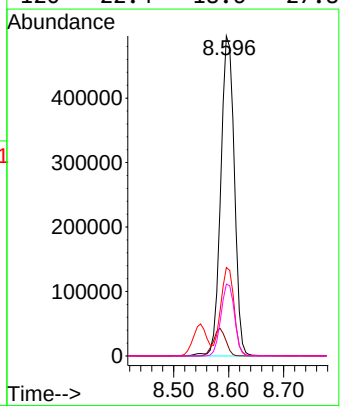
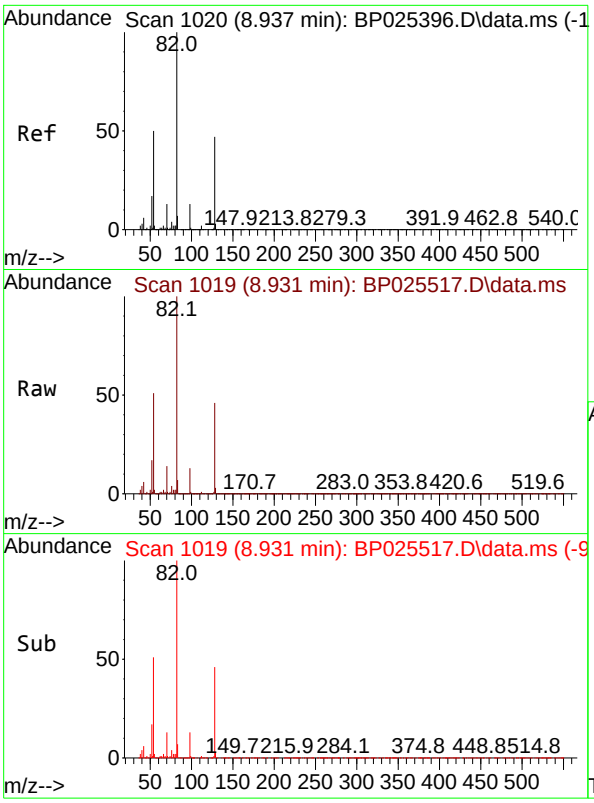


#22
Acetophenone
Concen: 47.056 ng
RT: 8.596 min Scan# 962
Delta R.T. -0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:105 Resp: 852338

Ion	Ratio	Lower	Upper
105	100		
71	4.5	2.6	4.0#
51	27.7	20.6	30.8
120	22.4	18.6	27.8

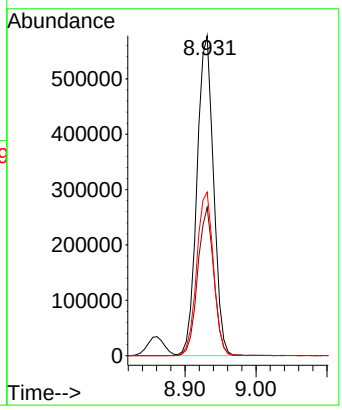




#23
Nitrobenzene-d5
Concen: 65.608 ng
RT: 8.931 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion: 82 Resp: 93677

Ion	Ratio	Lower	Upper
82	100		
128	46.4	37.7	56.5
54	51.1	39.8	59.6



Instrument :
BNA_P
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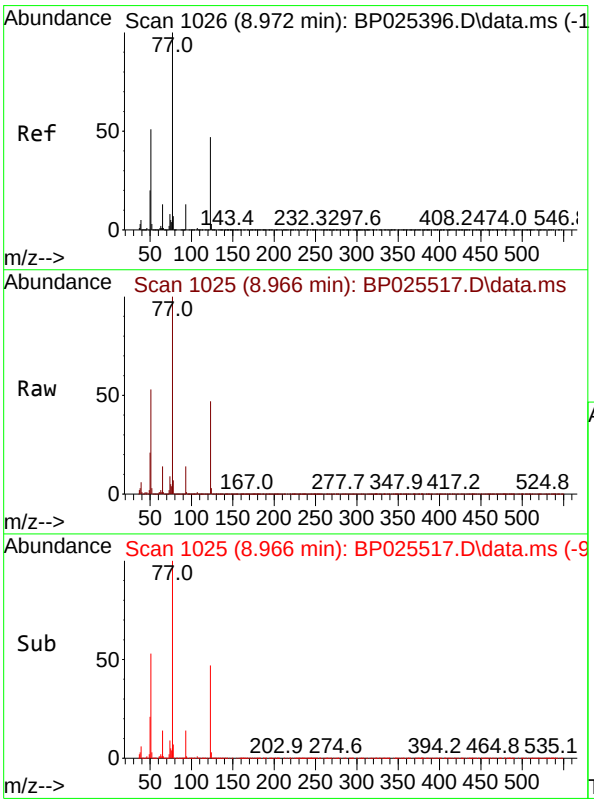
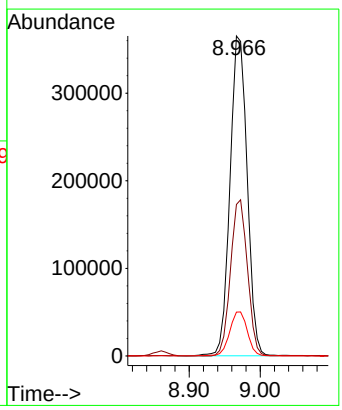
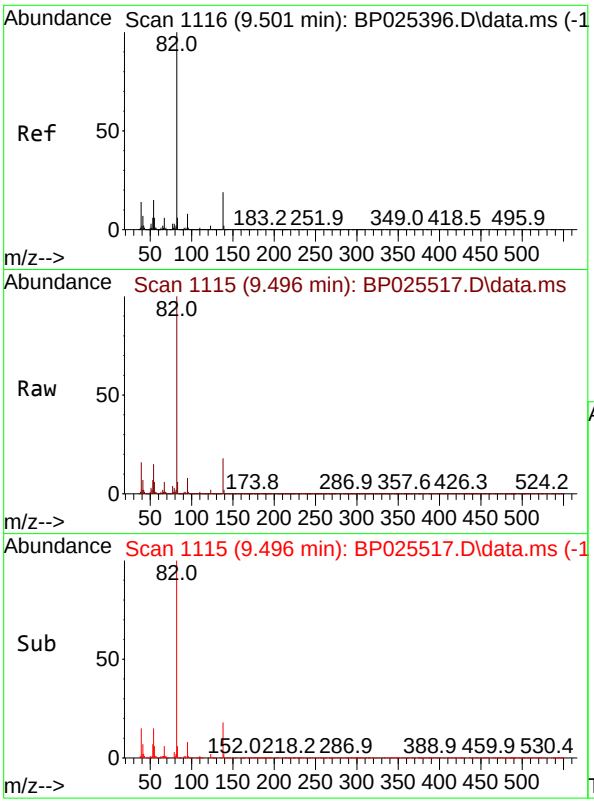


#24
Nitrobenzene
Concen: 48.104 ng
RT: 8.966 min Scan# 1025
Delta R.T. -0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion: 77 Resp: 613843

Ion	Ratio	Lower	Upper
77	100		
123	47.3	38.6	58.0
65	13.7	10.6	15.8

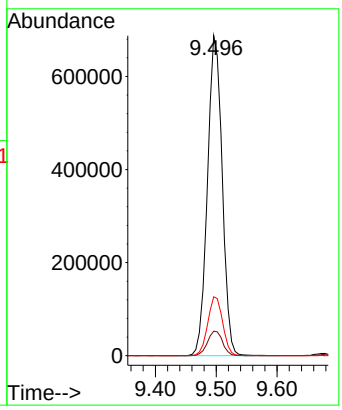




#25
Isophorone
Concen: 45.736 ng
RT: 9.496 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion: 82 Resp: 115570

Ion	Ratio	Lower	Upper
82	100		
95	7.7	6.4	9.6
138	18.4	15.4	23.0



Instrument :
BNA_P
ClientSampleId :
22BP-WMSD

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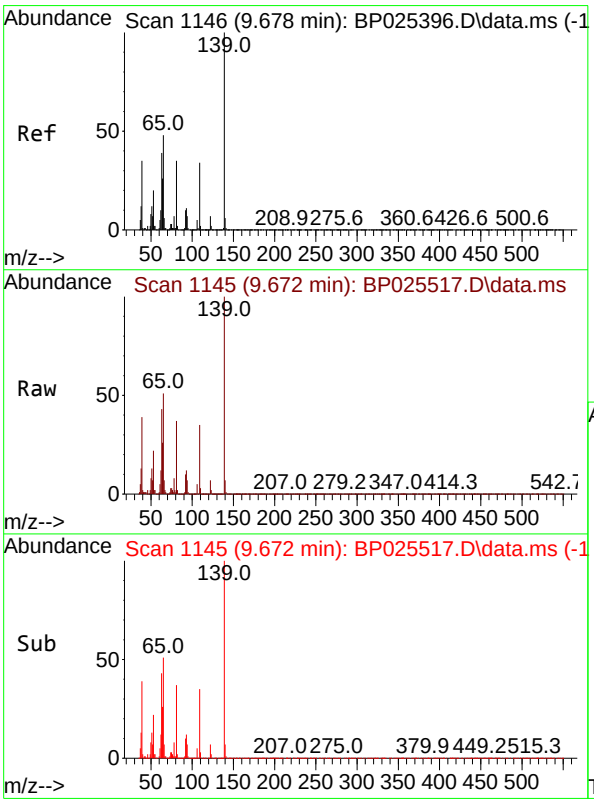
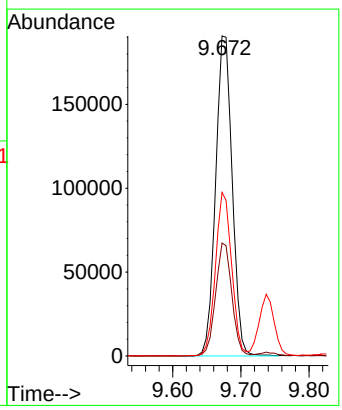
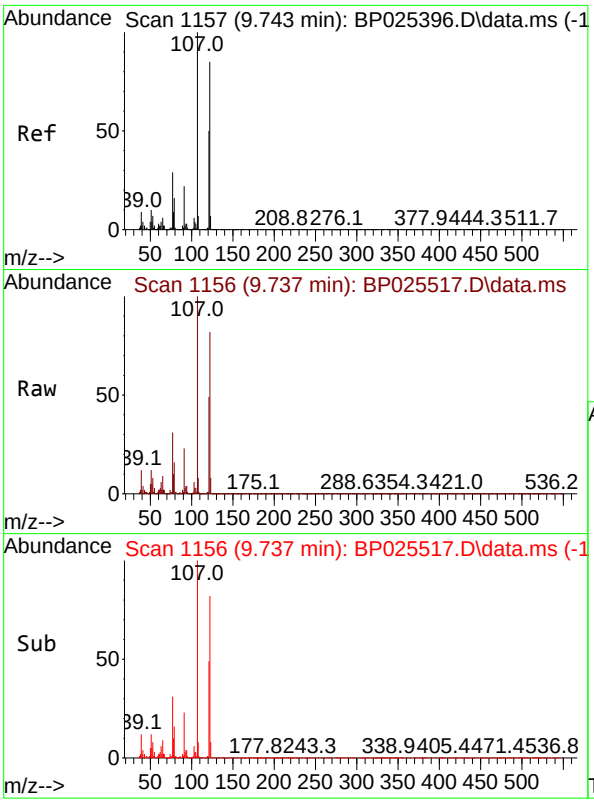


#26
2-Nitrophenol
Concen: 49.335 ng
RT: 9.672 min Scan# 1145
Delta R.T. -0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:139 Resp: 323093

Ion	Ratio	Lower	Upper
139	100		
109	35.3	26.9	40.3
65	51.1	38.3	57.5

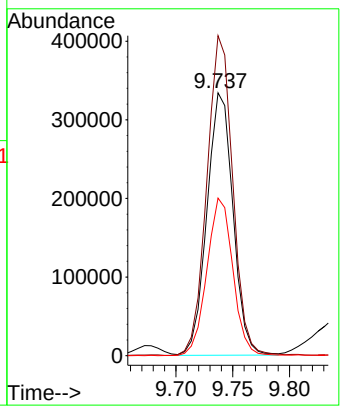




#27
2,4-Dimethylphenol
Concen: 47.366 ng
RT: 9.737 min Scan# 11
Delta R.T. -0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:122 Resp: 53344

Ion	Ratio	Lower	Upper
122	100		
107	121.7	93.7	140.5
121	59.9	46.6	69.8



Instrument :
BNA_P
ClientSampleId :
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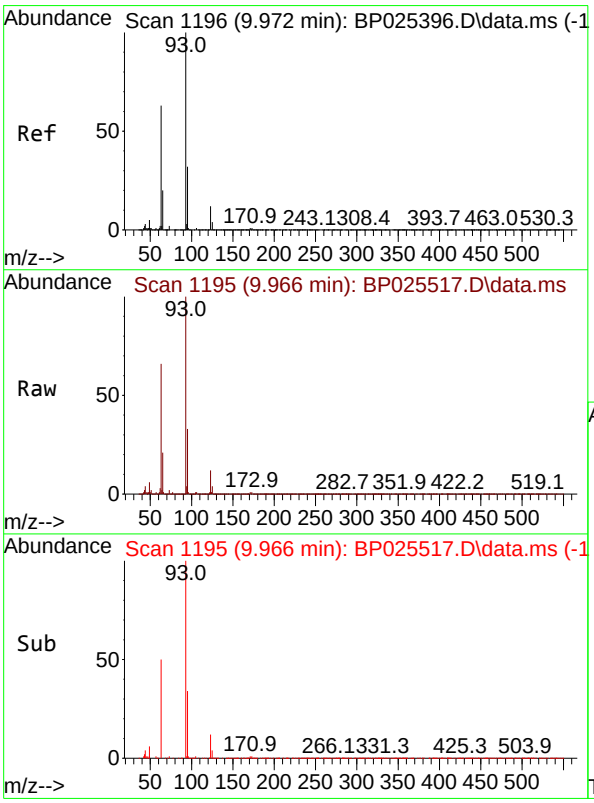
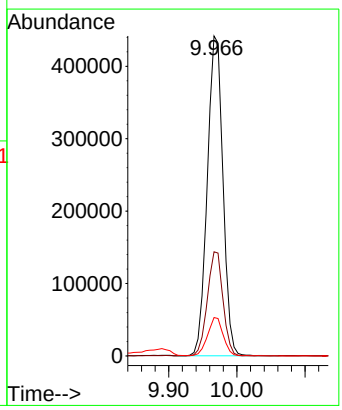
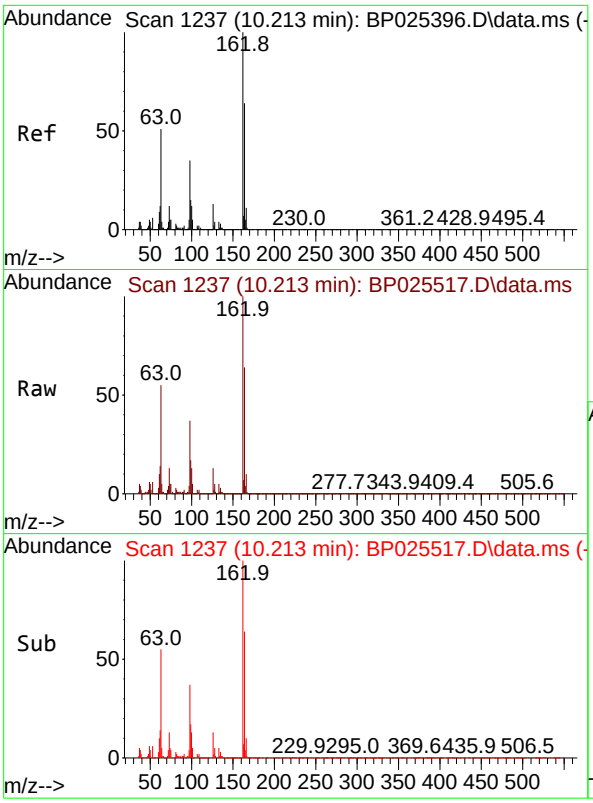


#28
bis(2-Chloroethoxy)methane
Concen: 46.309 ng
RT: 9.966 min Scan# 1195
Delta R.T. -0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion: 93 Resp: 707355

Ion	Ratio	Lower	Upper
93	100		
95	32.6	25.4	38.0
123	12.0	9.4	14.0





#29
2,4-Dichlorophenol
Concen: 49.622 ng
RT: 10.213 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:162 Resp: 55515

Ion	Ratio	Lower	Upper
162	100		
164	63.8	44.4	84.4
98	37.0	14.9	54.9

Instrument :
BNA_P
ClientSampleId :
22BP-WMSD

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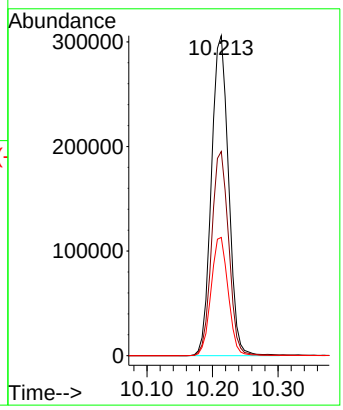
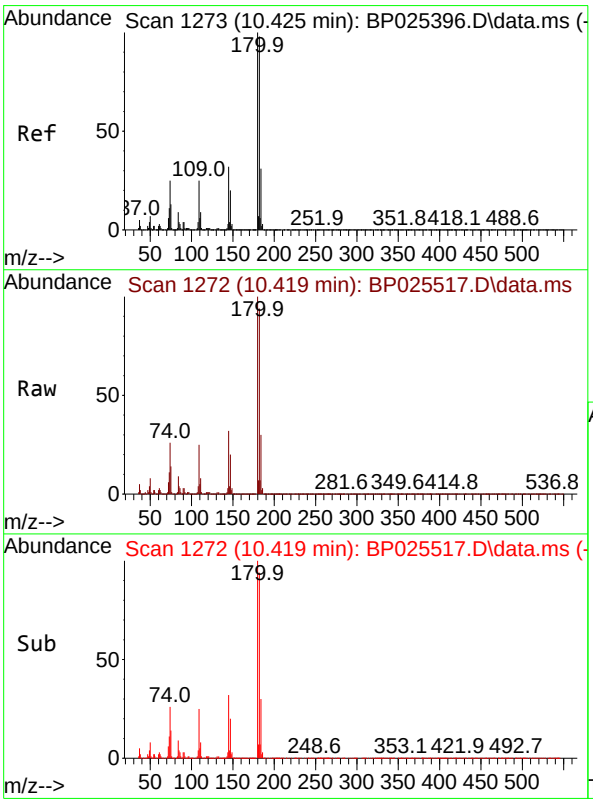
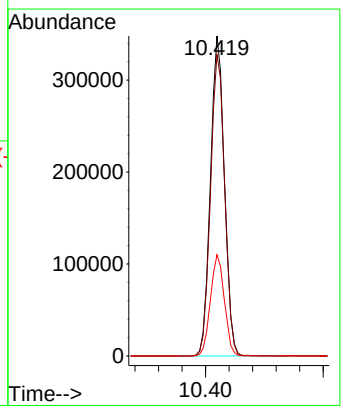


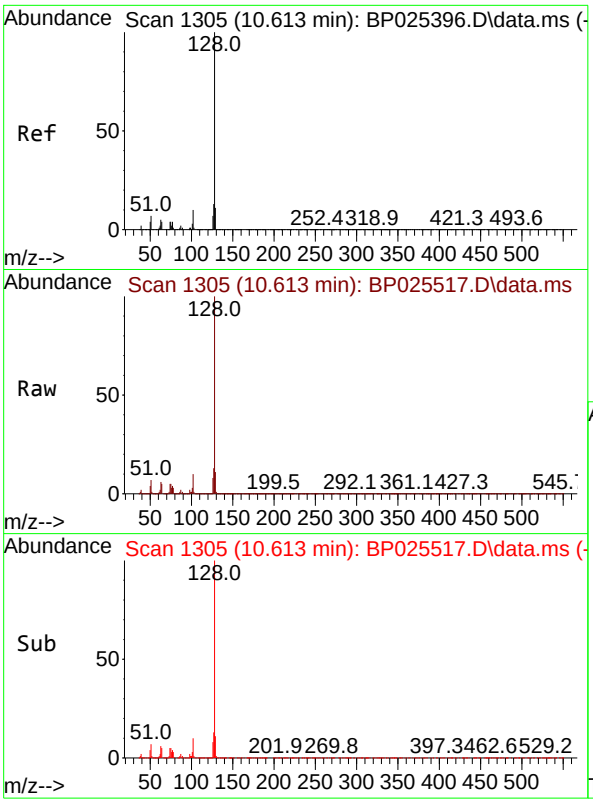


#30
1,2,4-Trichlorobenzene
Concen: 46.702 ng
RT: 10.419 min Scan# 1272
Delta R.T. -0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:180 Resp: 572771

Ion	Ratio	Lower	Upper
180	100		
182	94.2	78.0	117.0
145	31.6	25.9	38.9





#31
Naphthalene
Concen: 46.334 ng
RT: 10.613 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:128 Resp: 173943

Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.6	13.0
127	13.0	10.7	16.1

Instrument :
BNA_P
ClientSampleId :
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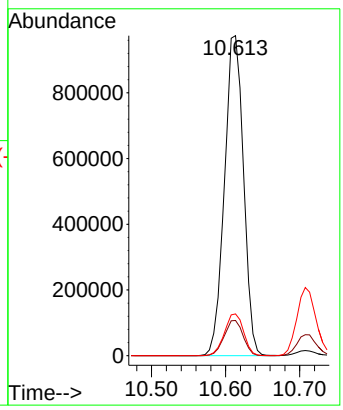
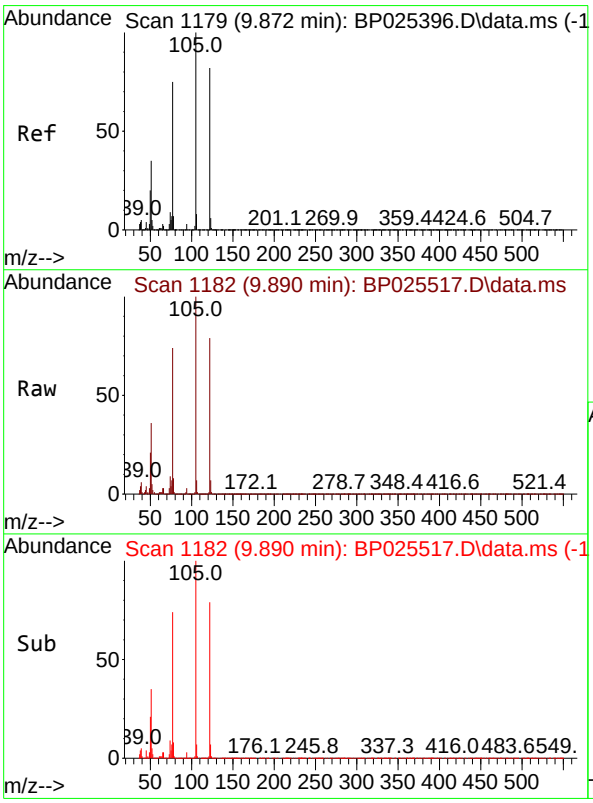
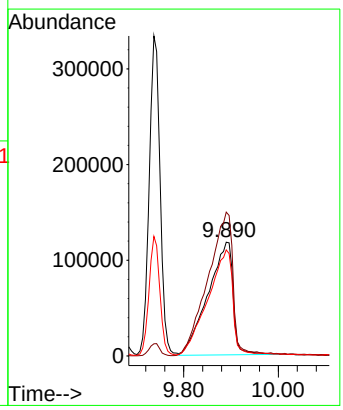


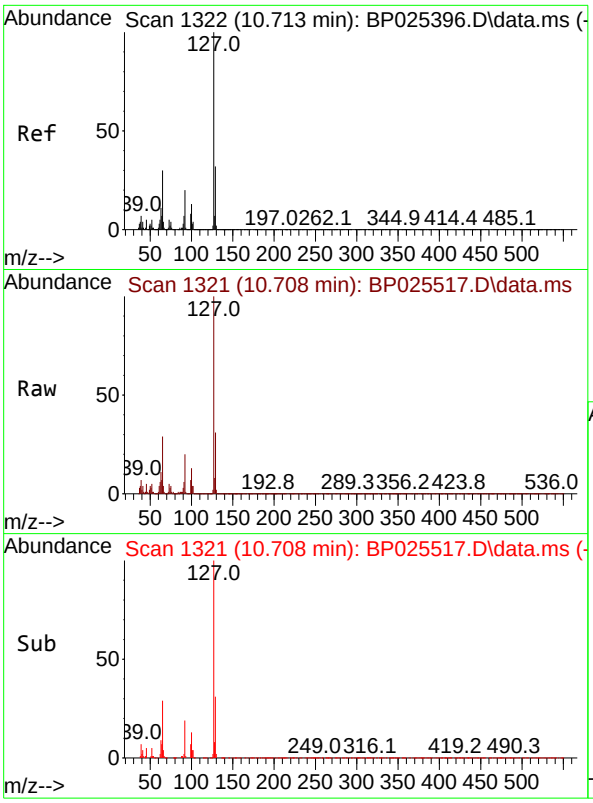


#32
Benzoic acid
Concen: 51.860 ng
RT: 9.890 min Scan# 1182
Delta R.T. 0.018 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:122 Resp: 431194

Ion	Ratio	Lower	Upper
122	100		
105	126.5	100.6	140.6
77	93.3	71.5	111.5

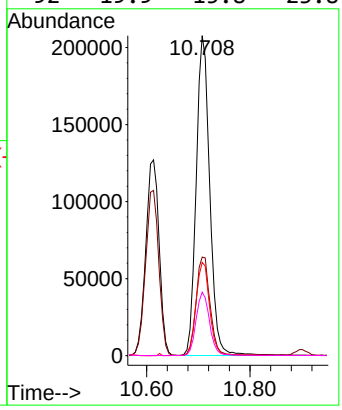




#33
4-Chloroaniline
Concen: 22.779 ng
RT: 10.708 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:127 Resp: 37773

Ion	Ratio	Lower	Upper
127	100		
129	30.8	25.4	38.2
65	29.1	23.8	35.6
92	19.9	15.8	23.8



Instrument :
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ClientSampleId :
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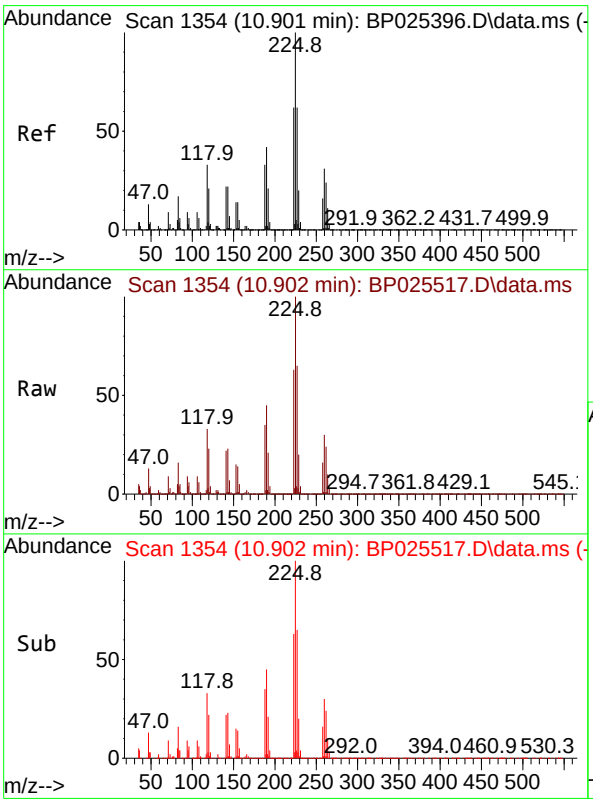
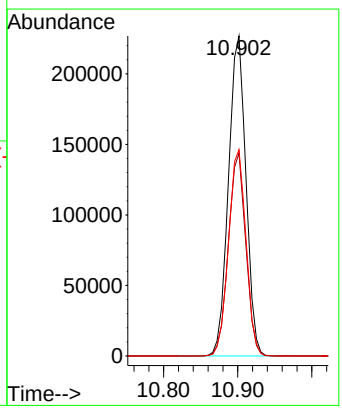
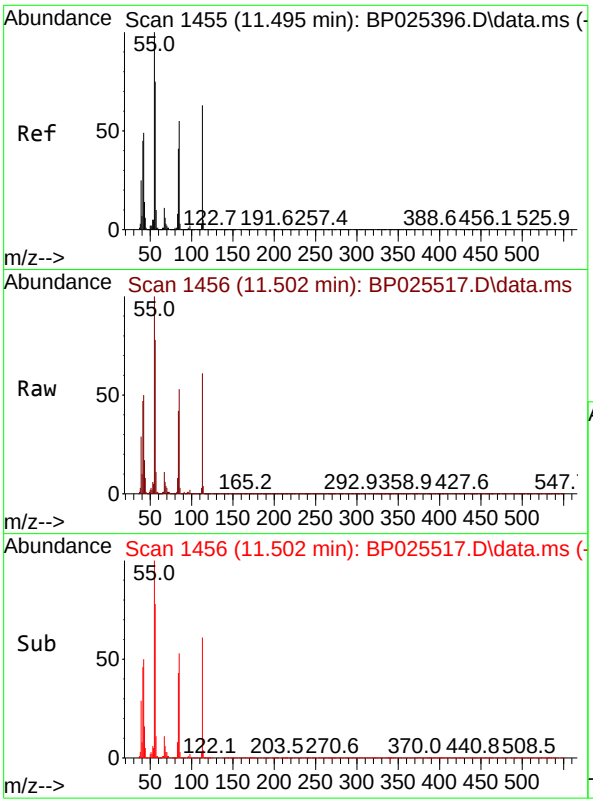


#34
Hexachlorobutadiene
Concen: 48.563 ng
RT: 10.902 min Scan# 1354
Delta R.T. 0.000 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:225 Resp: 370916

Ion	Ratio	Lower	Upper
225	100		
223	63.4	50.0	75.0
227	64.5	49.7	74.5





#35
Caprolactam
Concen: 45.747 ng
RT: 11.502 min Scan# 14
Delta R.T. 0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:113 Resp: 18767

Ion	Ratio	Lower	Upper
113	100		
55	164.6	140.0	180.0
56	128.1	100.0	140.0

Instrument :
BNA_P
ClientSampleId :
22BP-WMSD

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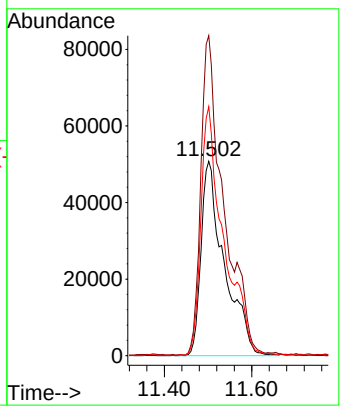
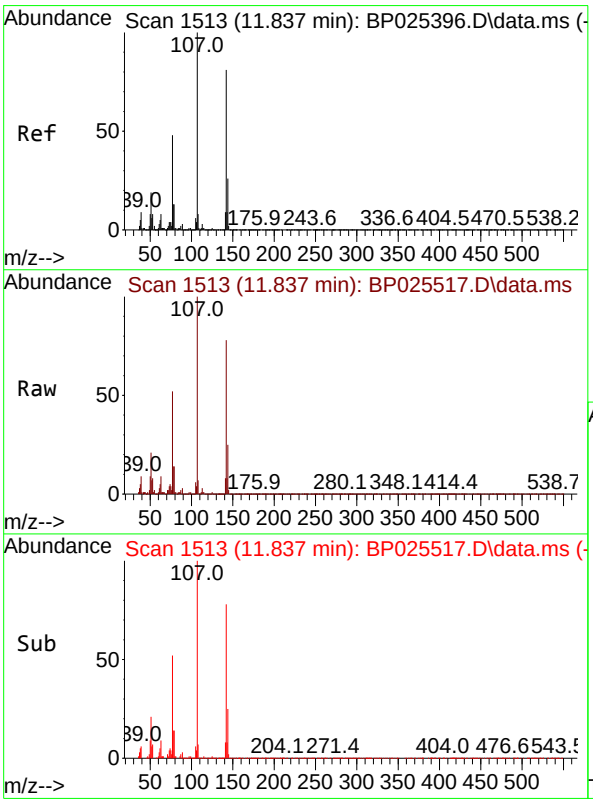
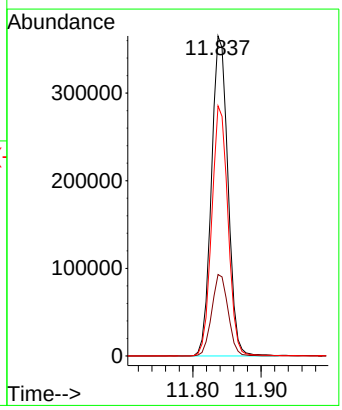


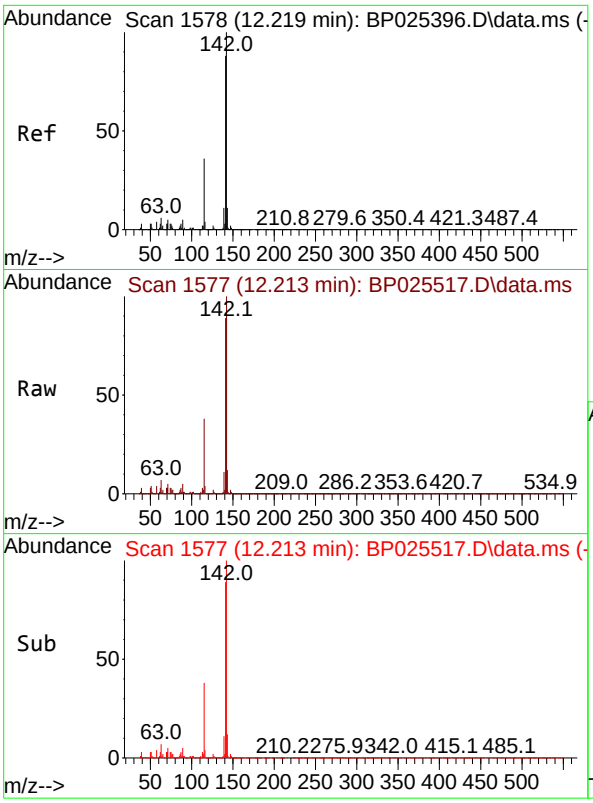


#36
4-Chloro-3-methylphenol
Concen: 47.974 ng
RT: 11.837 min Scan# 1513
Delta R.T. 0.000 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:107 Resp: 615878

Ion	Ratio	Lower	Upper
107	100		
144	25.5	21.0	31.4
142	78.1	64.6	97.0

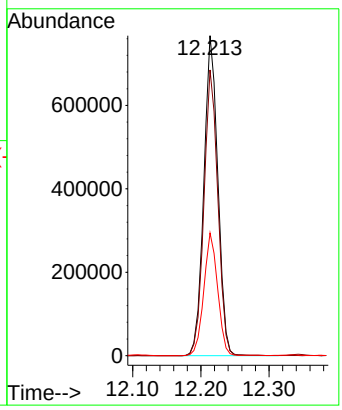




#37
2-Methylnaphthalene
Concen: 44.896 ng
RT: 12.213 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:142 Resp: 109682

Ion	Ratio	Lower	Upper
142	100		
141	89.3	70.3	105.5
115	38.4	28.9	43.3



Instrument :
BNA_P
ClientSampleId :
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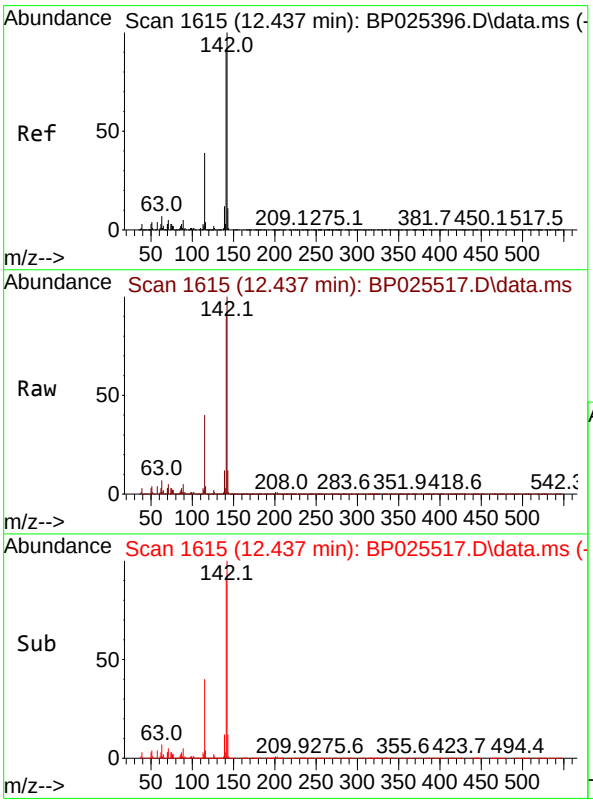
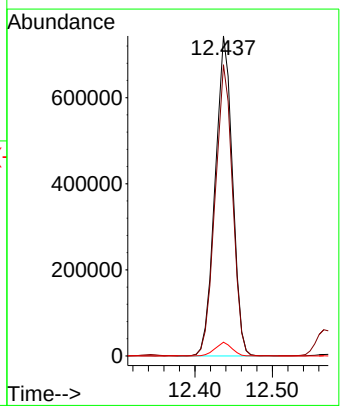
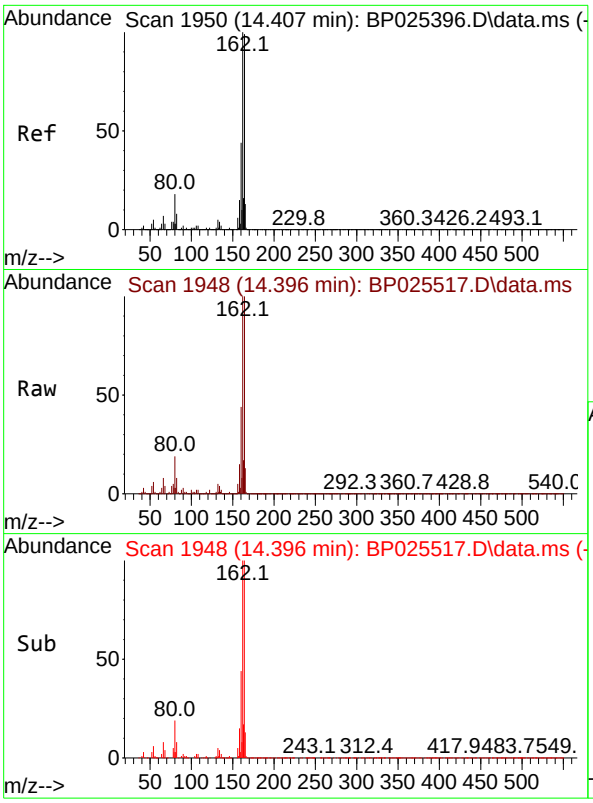


#38
1-Methylnaphthalene
Concen: 44.535 ng
RT: 12.437 min Scan# 1615
Delta R.T. 0.000 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:142 Resp: 1157054

Ion	Ratio	Lower	Upper
142	100		
141	91.0	73.1	109.7
116	4.3	3.2	4.8

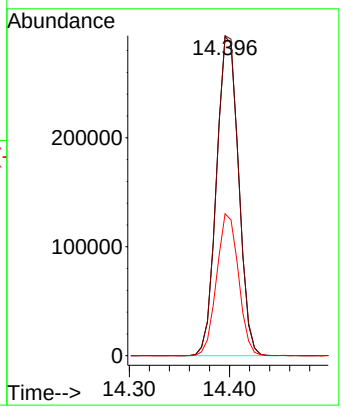




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.396 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:164 Resp: 44704

Ion	Ratio	Lower	Upper
164	100		
162	100.3	81.0	121.6
160	44.5	35.4	53.2



Instrument :
BNA_P
ClientSampleId :
22BP-WMSD

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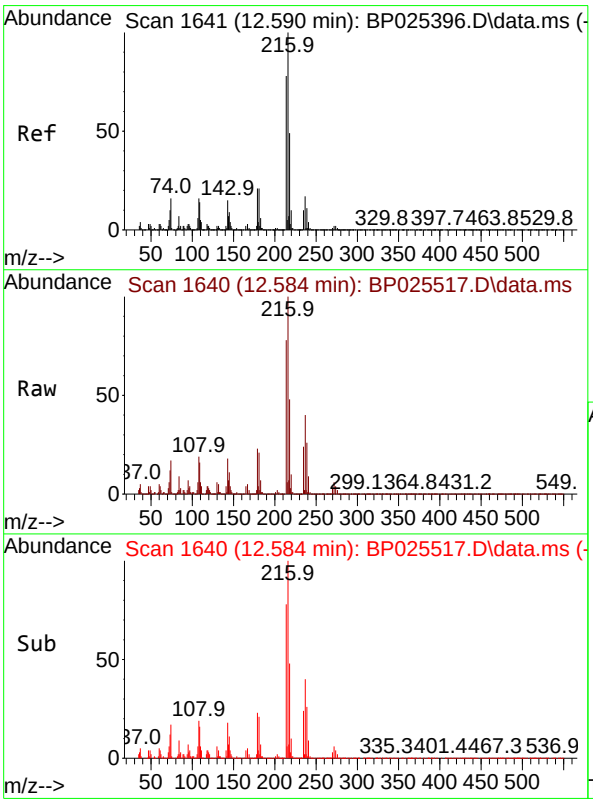
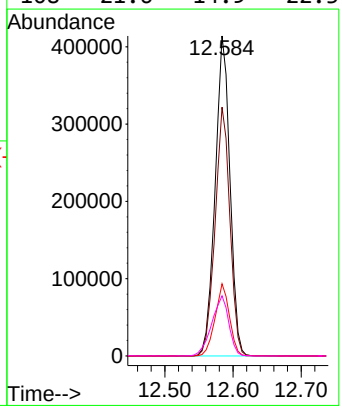
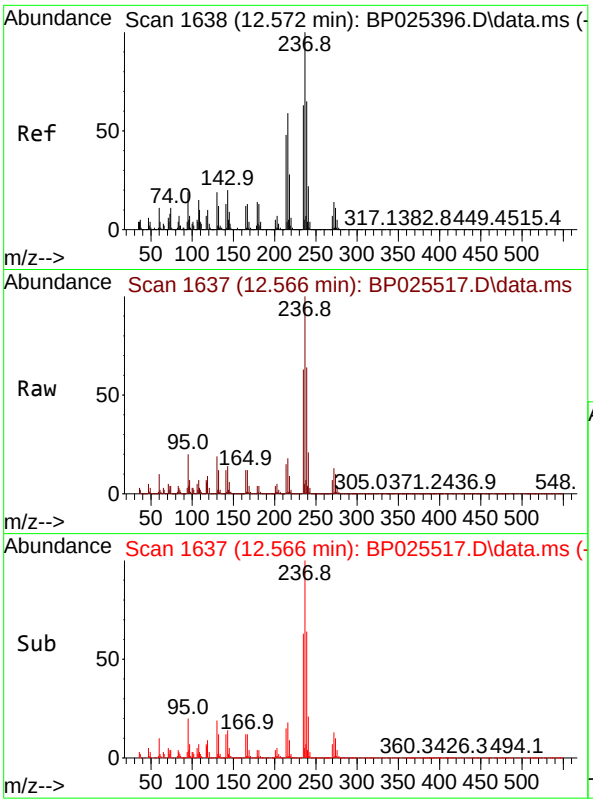


#40
1,2,4,5-Tetrachlorobenzene
Concen: 48.461 ng
RT: 12.584 min Scan# 1640
Delta R.T. -0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:216 Resp: 625693

Ion	Ratio	Lower	Upper
216	100		
214	78.1	63.0	94.4
179	21.9	17.1	25.7
108	21.6	14.9	22.3





#41
Hexachlorocyclopentadiene
Concen: 102.943 ng
RT: 12.566 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:237 Resp: 80284

Ion	Ratio	Lower	Upper
237	100		
235	63.2	42.7	82.7
272	12.6	0.0	34.0

Instrument :
BNA_P
ClientSampleId :
22BP-WMSD

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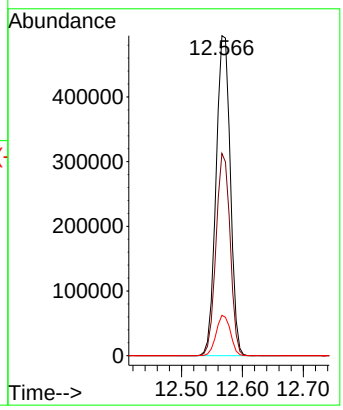
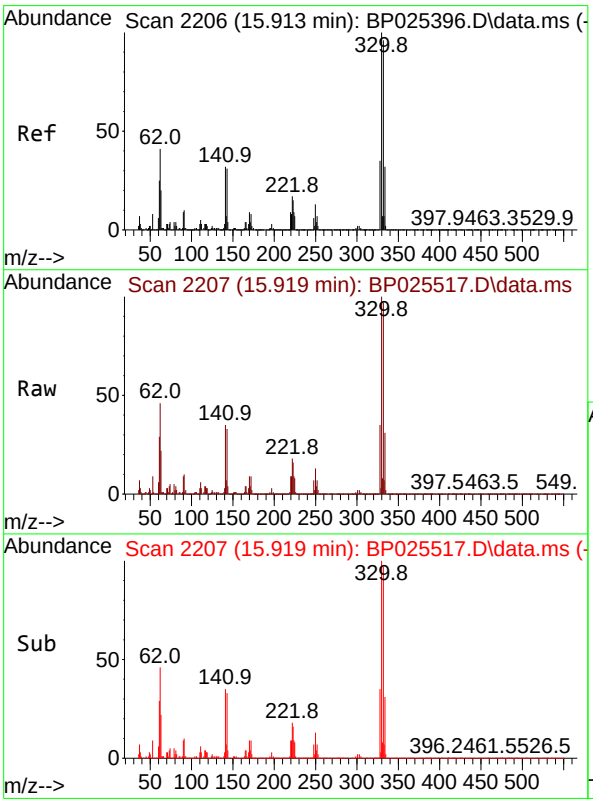
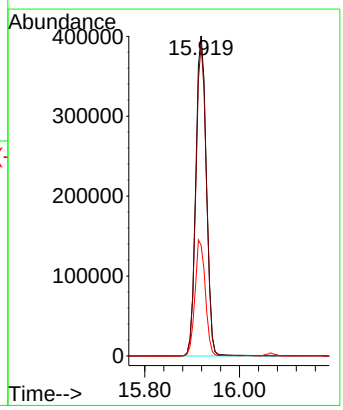


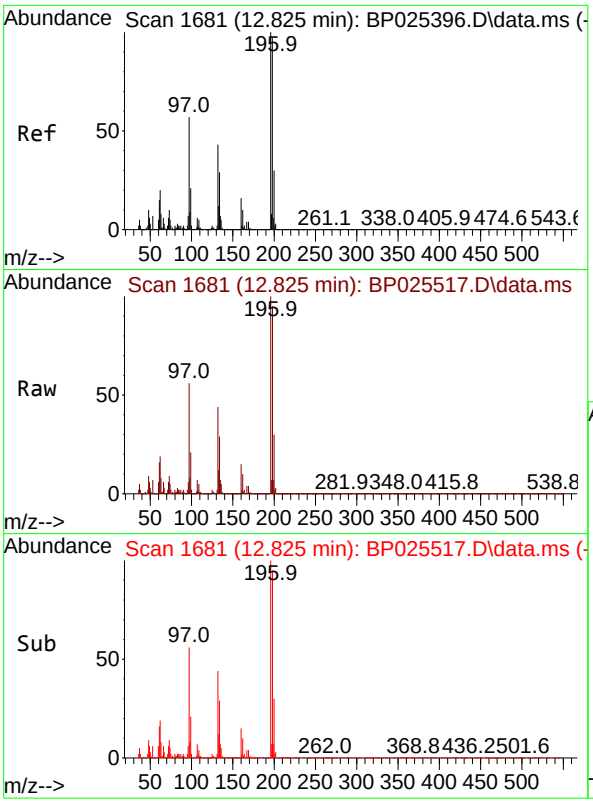


#42
2,4,6-Tribromophenol
Concen: 103.597 ng
RT: 15.919 min Scan# 2207
Delta R.T. 0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:330 Resp: 623372

Ion	Ratio	Lower	Upper
330	100		
332	96.5	77.3	115.9
141	35.3	26.6	39.8





#43
2,4,6-Trichlorophenol
Concen: 50.780 ng
RT: 12.825 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:196 Resp: 44262

Ion	Ratio	Lower	Upper
196	100		
198	94.8	77.2	115.8
200	30.1	23.9	35.9

Instrument :
BNA_P
ClientSampleId :
22BP-WMSD

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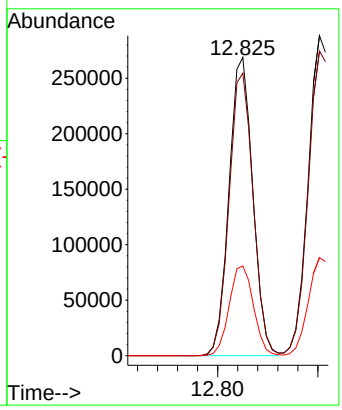
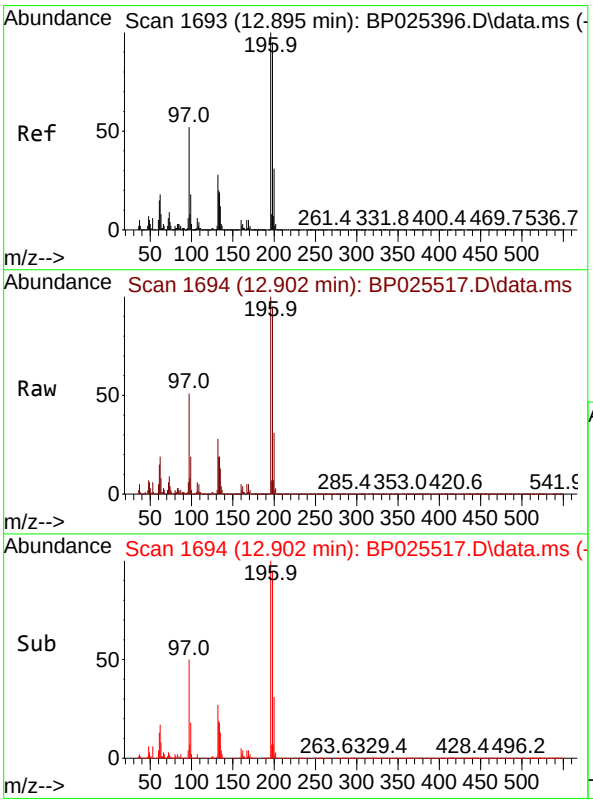
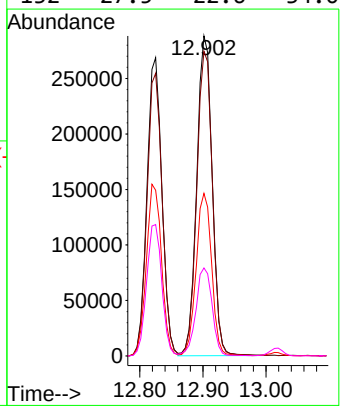


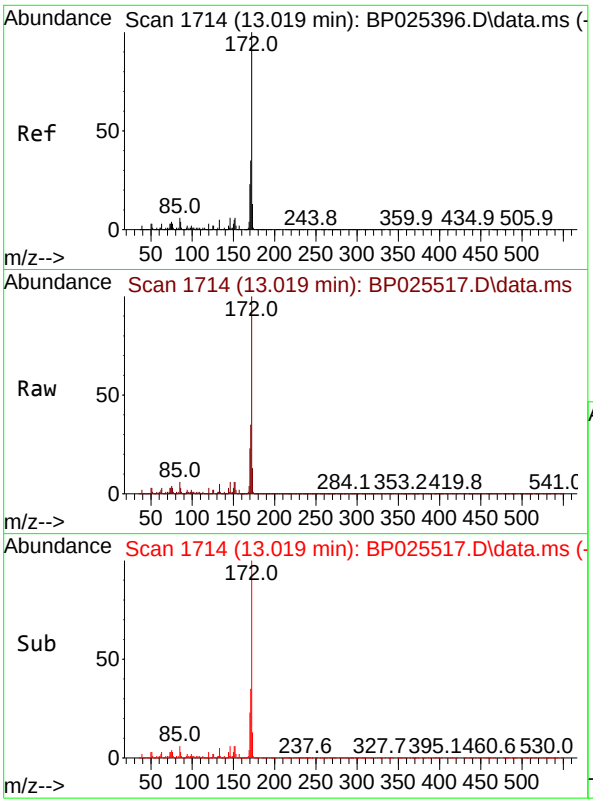


#44
2,4,5-Trichlorophenol
Concen: 51.330 ng
RT: 12.902 min Scan# 1694
Delta R.T. 0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:196 Resp: 490354

Ion	Ratio	Lower	Upper
196	100		
198	95.2	76.2	114.2
97	50.8	41.2	61.8
132	27.5	22.6	34.0

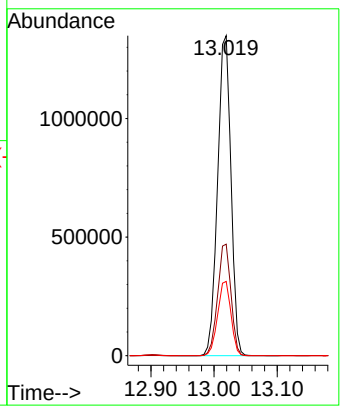




#45
2-Fluorobiphenyl
Concen: 60.642 ng
RT: 13.019 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:172 Resp: 198363

Ion	Ratio	Lower	Upper
172	100		
171	34.9	28.1	42.1
170	23.2	18.6	28.0



Instrument :
BNA_P
ClientSampleId :
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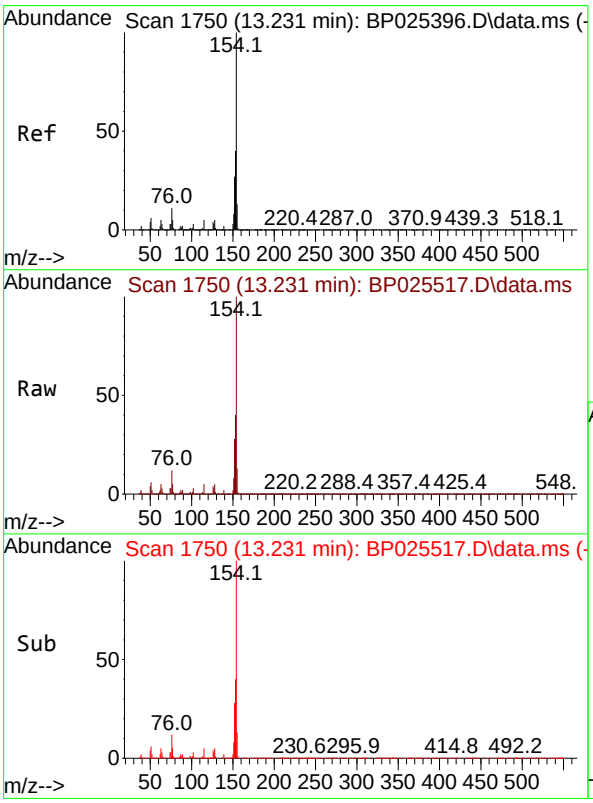
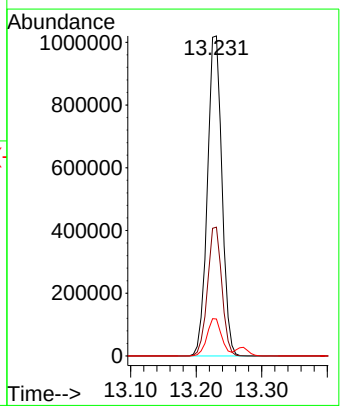
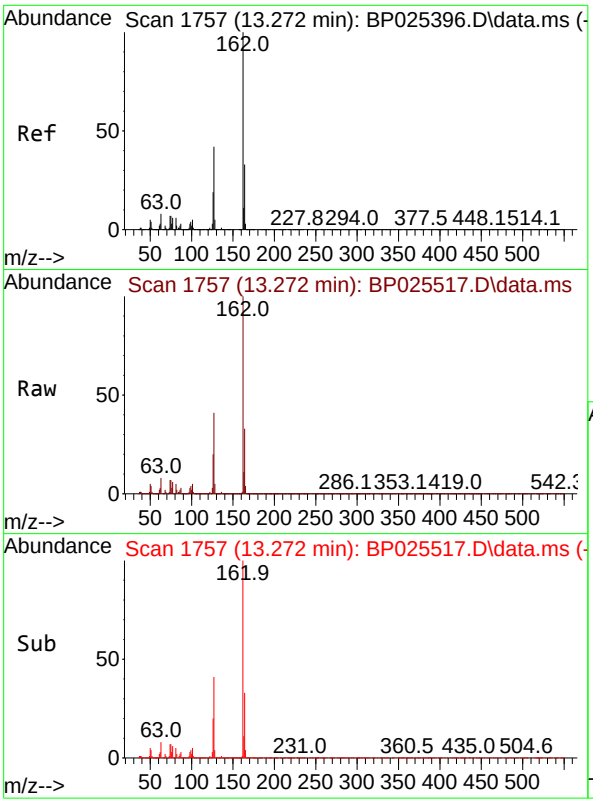


#46
1,1'-Biphenyl
Concen: 48.304 ng
RT: 13.231 min Scan# 1750
Delta R.T. 0.000 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:154 Resp: 1568313

Ion	Ratio	Lower	Upper
154	100		
153	40.3	19.5	59.5
76	11.6	0.0	31.1

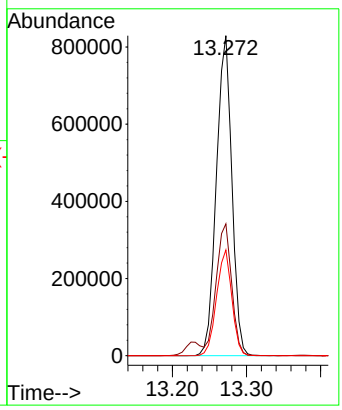




#47
2-Chloronaphthalene
Concen: 47.550 ng
RT: 13.272 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:162 Resp: 120183

Ion	Ratio	Lower	Upper
162	100		
127	41.2	33.4	50.2
164	33.0	26.2	39.2



Instrument :
BNA_P
ClientSampleId :
22BP-WMSD

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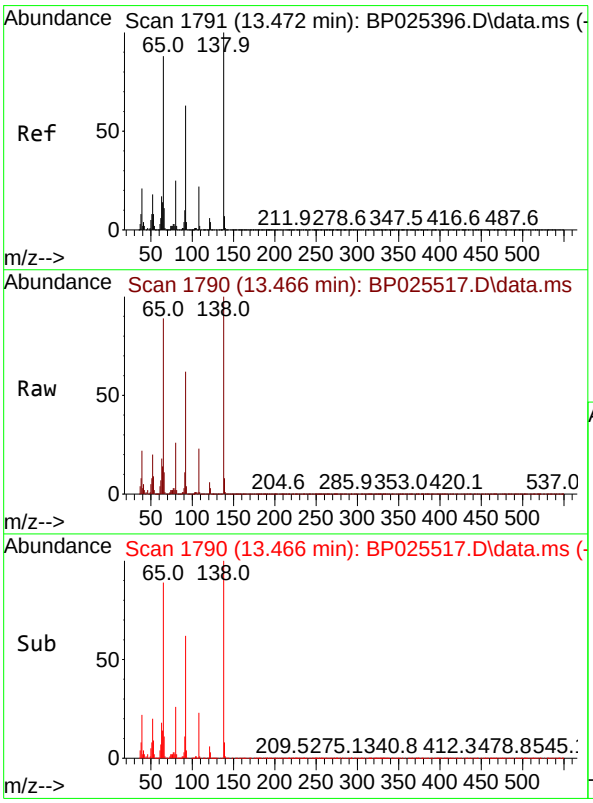
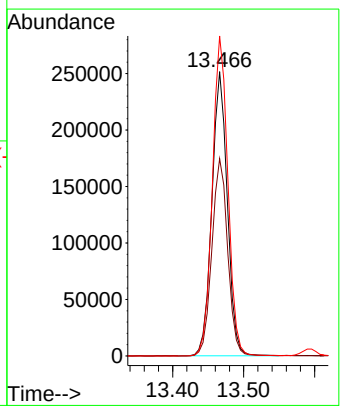
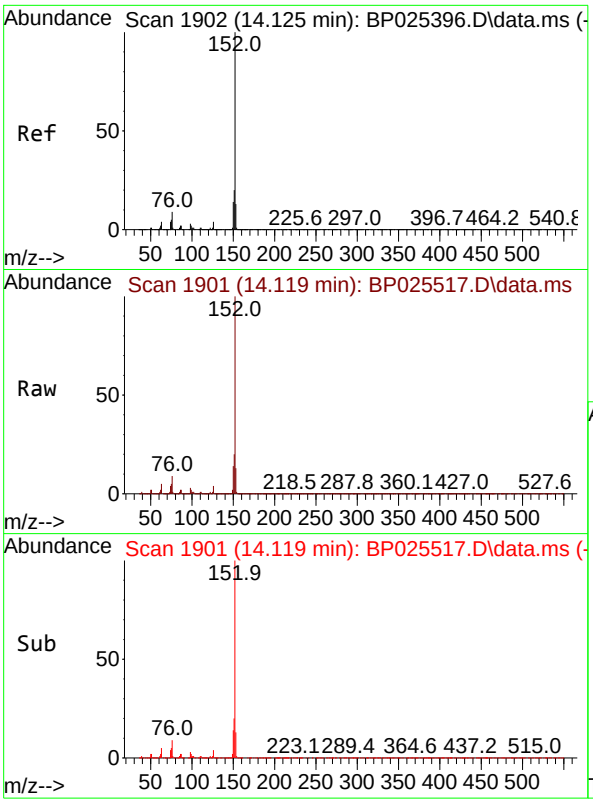


#48
2-Nitroaniline
Concen: 51.670 ng
RT: 13.466 min Scan# 1790
Delta R.T. -0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion: 65 Resp: 380529

Ion	Ratio	Lower	Upper
65	100		
92	69.4	57.6	86.4
138	112.5	91.0	136.6

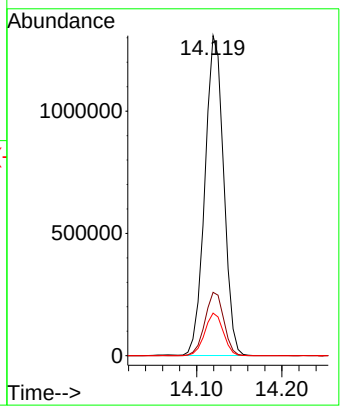




#49
Acenaphthylene
Concen: 47.841 ng
RT: 14.119 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:152 Resp: 200090

Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.0	24.0
153	13.3	10.6	15.8



Instrument :
BNA_P
ClientSampleId :
22BP-WMSD

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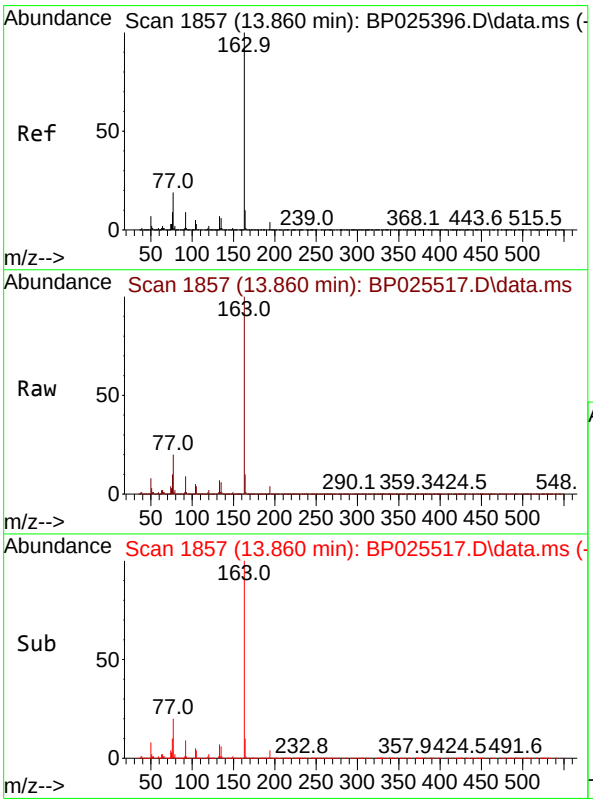
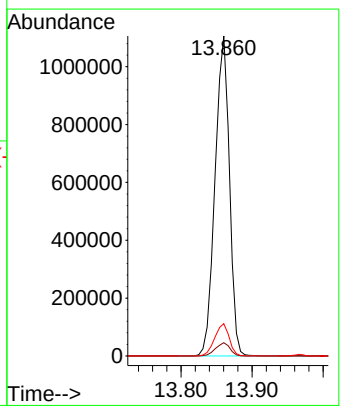
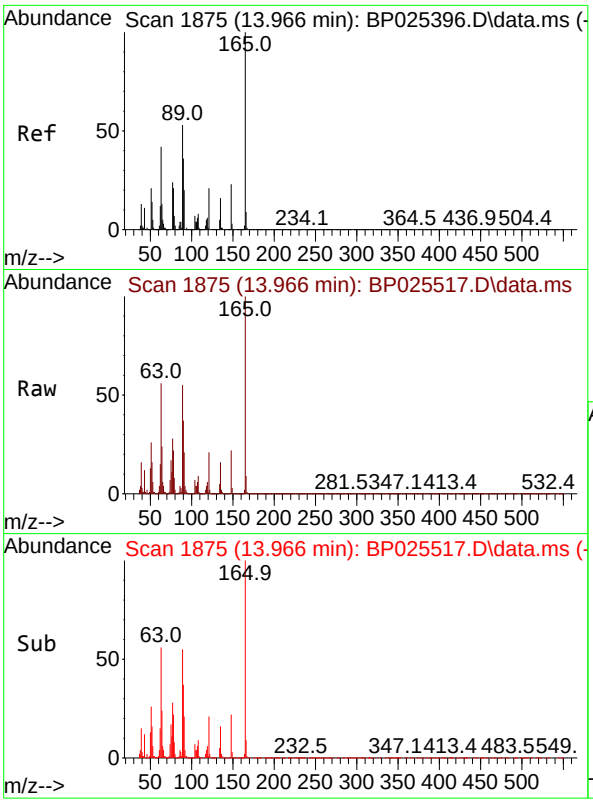


#50
Dimethylphthalate
Concen: 47.312 ng
RT: 13.860 min Scan# 1857
Delta R.T. 0.000 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:163 Resp: 1548844

Ion	Ratio	Lower	Upper
163	100		
194	4.1	3.4	5.0
164	10.1	7.9	11.9

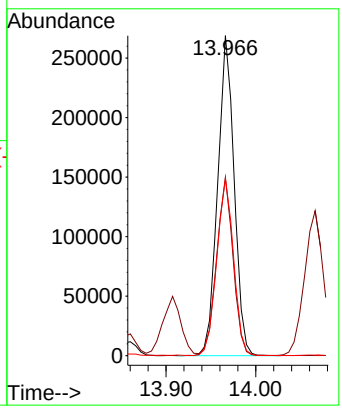




#51
2,6-Dinitrotoluene
Concen: 49.643 ng
RT: 13.966 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:165 Resp: 34253

Ion	Ratio	Lower	Upper
165	100		
63	55.7	40.9	61.3
89	55.5	42.1	63.1



Instrument :
BNA_P
ClientSampleId :
22BP-WMSD

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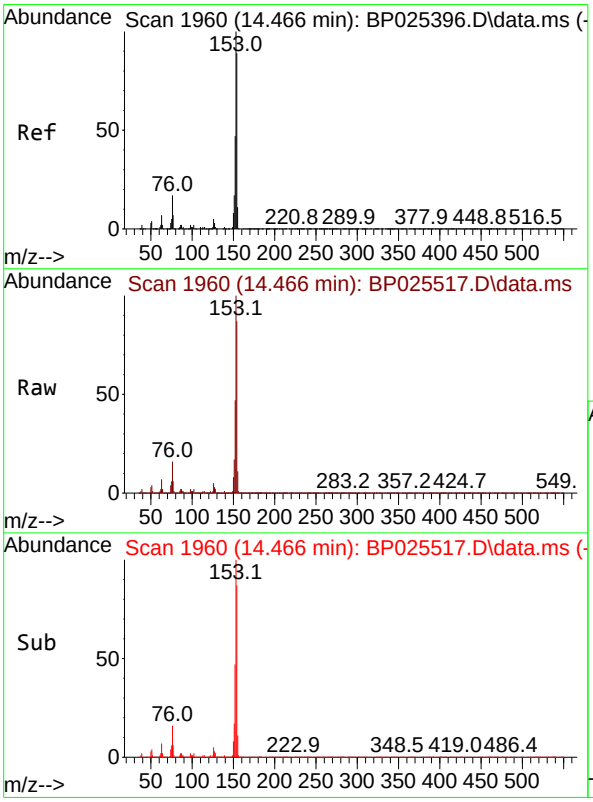
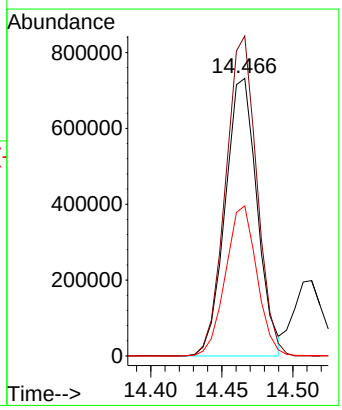
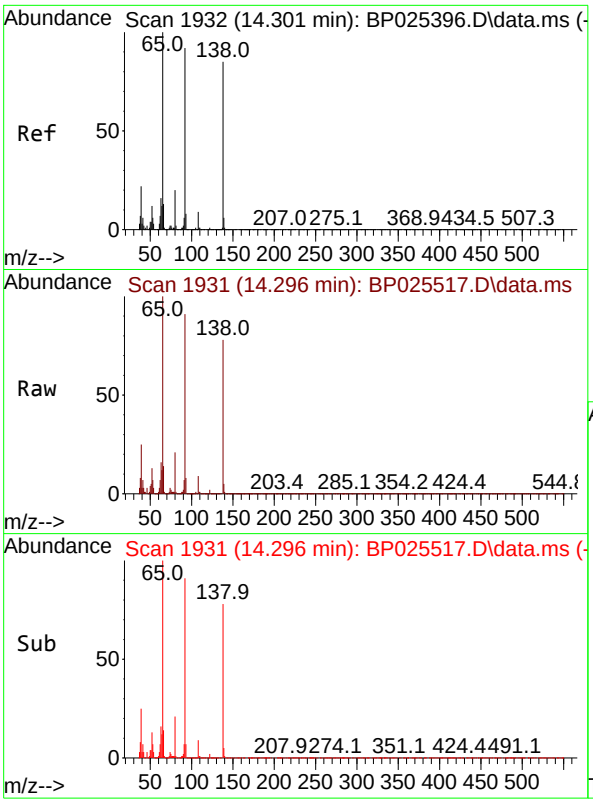


#52
Acenaphthene
Concen: 46.659 ng
RT: 14.466 min Scan# 1960
Delta R.T. 0.000 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:154 Resp: 1145454

Ion	Ratio	Lower	Upper
154	100		
153	115.2	90.2	135.2
152	54.0	42.1	63.1





#53
3-Nitroaniline
Concen: 30.228 ng
RT: 14.296 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:138 Resp: 23466

Ion	Ratio	Lower	Upper
138	100		
108	11.5	8.3	12.5
92	116.4	86.2	129.2

Instrument :
BNA_P
ClientSampleId :
22BP-WMSD

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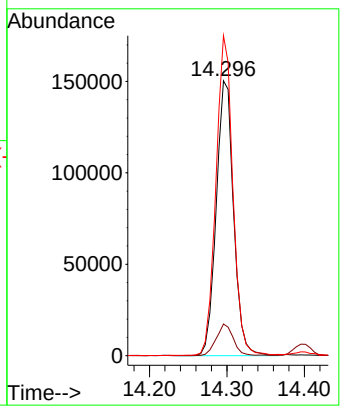
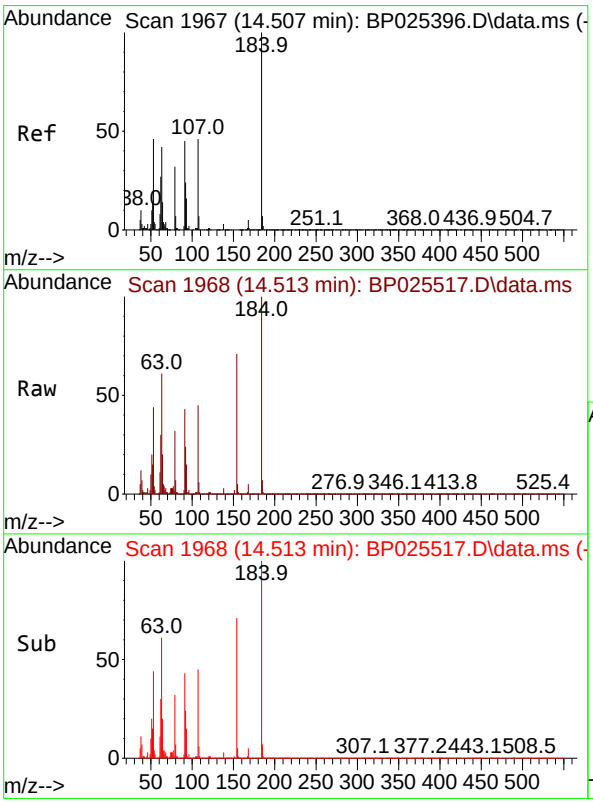
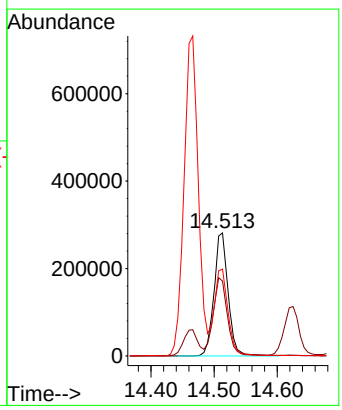


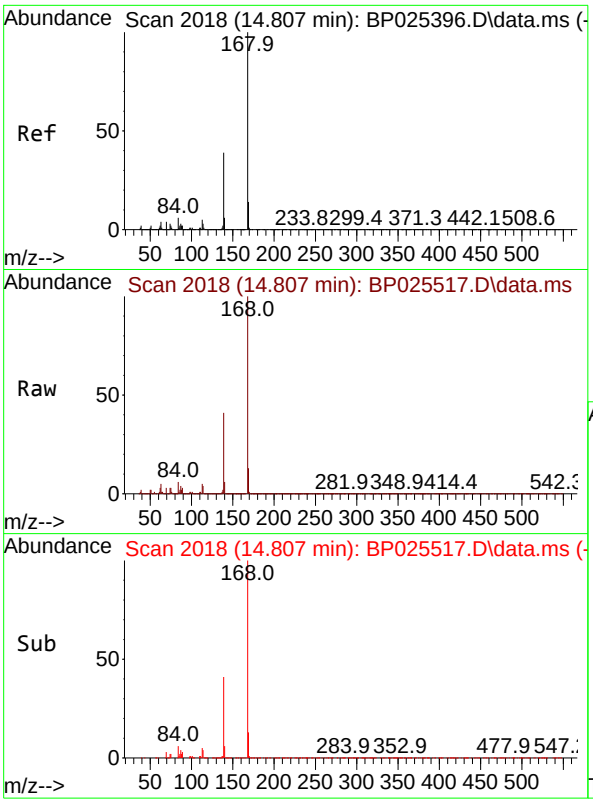


#54
2,4-Dinitrophenol
Concen: 118.504 ng
RT: 14.513 min Scan# 1968
Delta R.T. 0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:184 Resp: 436661

Ion	Ratio	Lower	Upper
184	100		
63	60.9	49.4	74.2
154	70.6	54.6	82.0

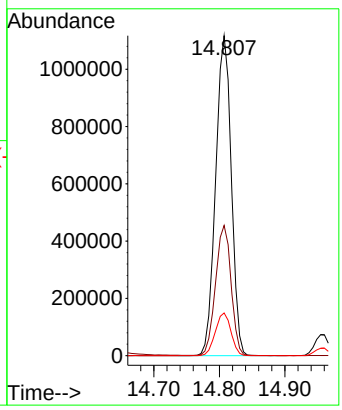




#55
Dibenzofuran
Concen: 47.393 ng
RT: 14.807 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:168 Resp: 183949

Ion	Ratio	Lower	Upper
168	100		
139	40.7	31.5	47.3
169	13.3	10.9	16.3



Instrument :
BNA_P
ClientSampleId :
22BP-WMSD

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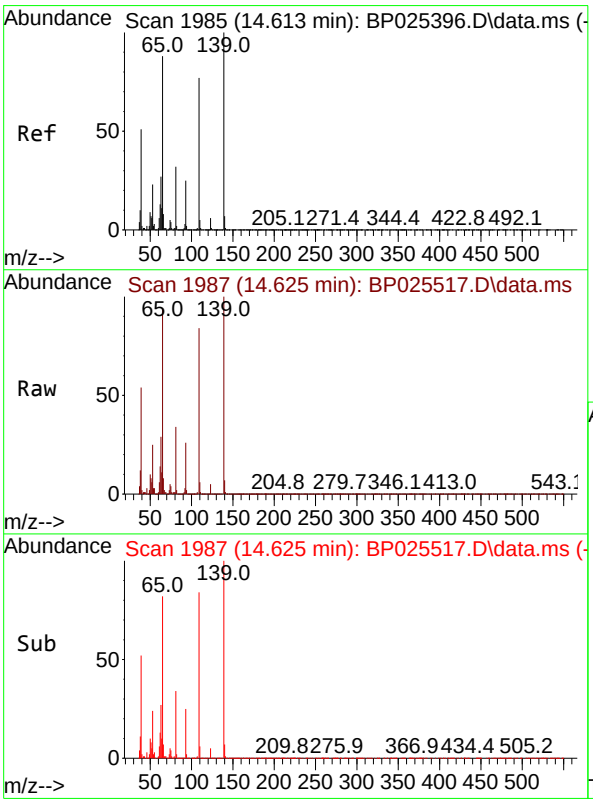
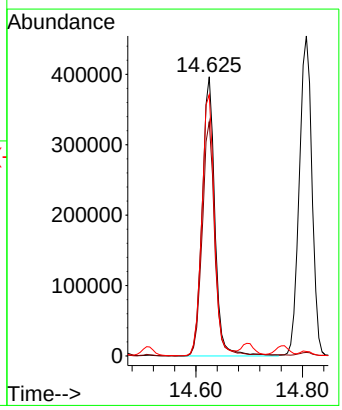
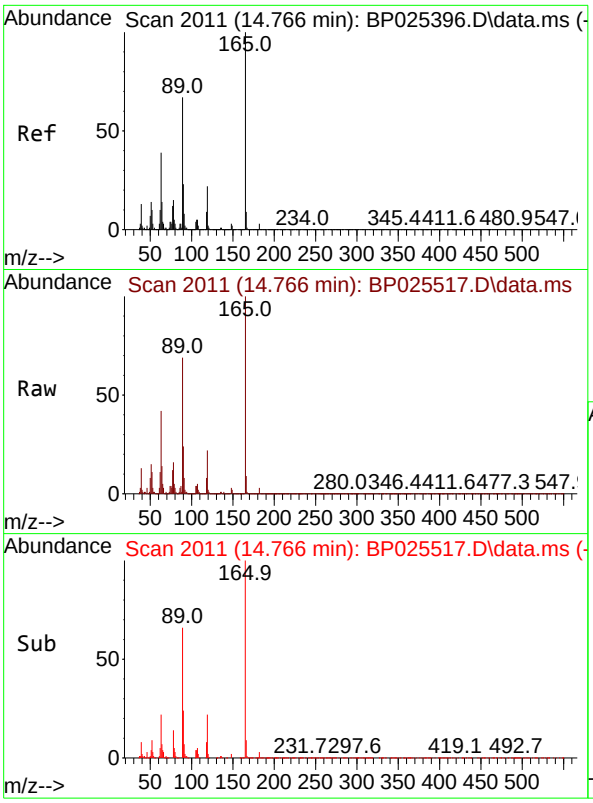


#56
4-Nitrophenol
Concen: 102.419 ng
RT: 14.625 min Scan# 1987
Delta R.T. 0.012 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:139 Resp: 653354

Ion	Ratio	Lower	Upper
139	100		
109	83.9	56.6	96.6
65	93.6	68.2	108.2

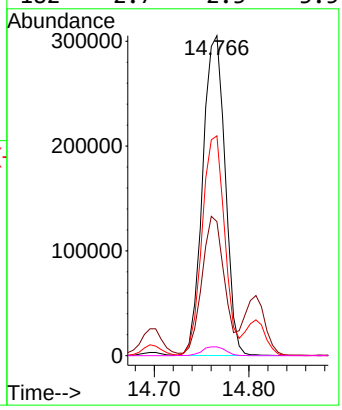




#57
2,4-Dinitrotoluene
Concen: 51.002 ng
RT: 14.766 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:165 Resp: 50209

Ion	Ratio	Lower	Upper
165	100		
63	41.9	31.4	47.2
89	68.7	53.3	79.9
182	2.7	2.3	3.5



Instrument :
BNA_P
ClientSampleId :
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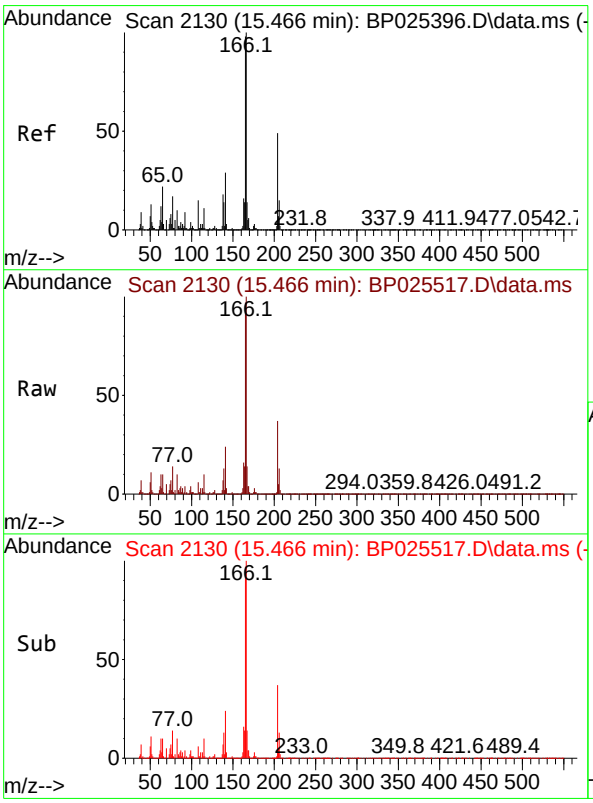
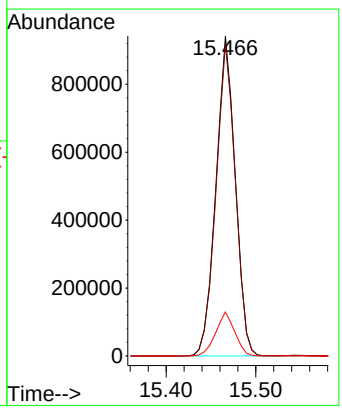
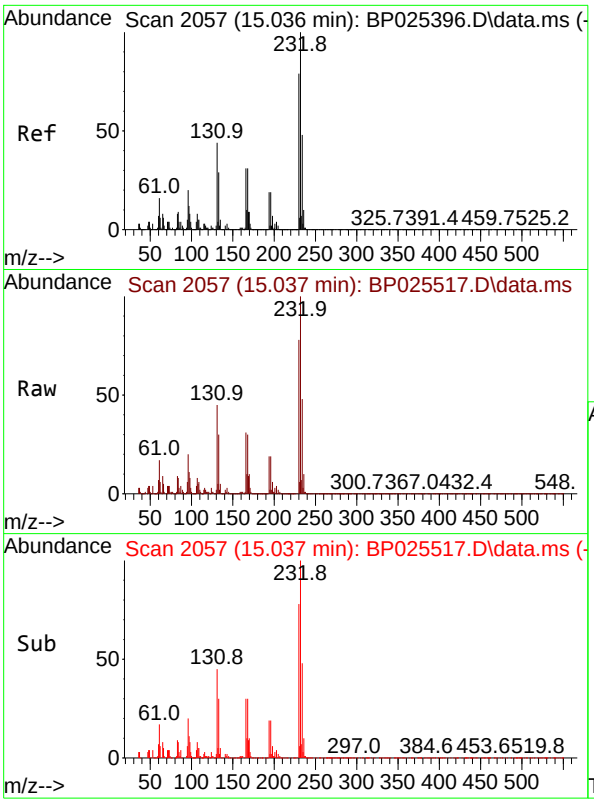


#58
Fluorene
Concen: 46.148 ng
RT: 15.466 min Scan# 2130
Delta R.T. 0.000 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:166 Resp: 1413344

Ion	Ratio	Lower	Upper
166	100		
165	97.4	78.8	118.2
167	13.7	11.0	16.4

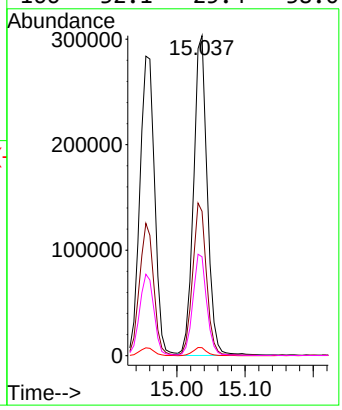




#59
2,3,4,6-Tetrachlorophenol
Concen: 50.097 ng
RT: 15.037 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:232 Resp: 42258

Ion	Ratio	Lower	Upper
232	100		
131	47.8	37.0	55.6
130	2.6	1.9	2.9
166	32.1	25.4	38.0



Instrument :
BNA_P
ClientSampleId :
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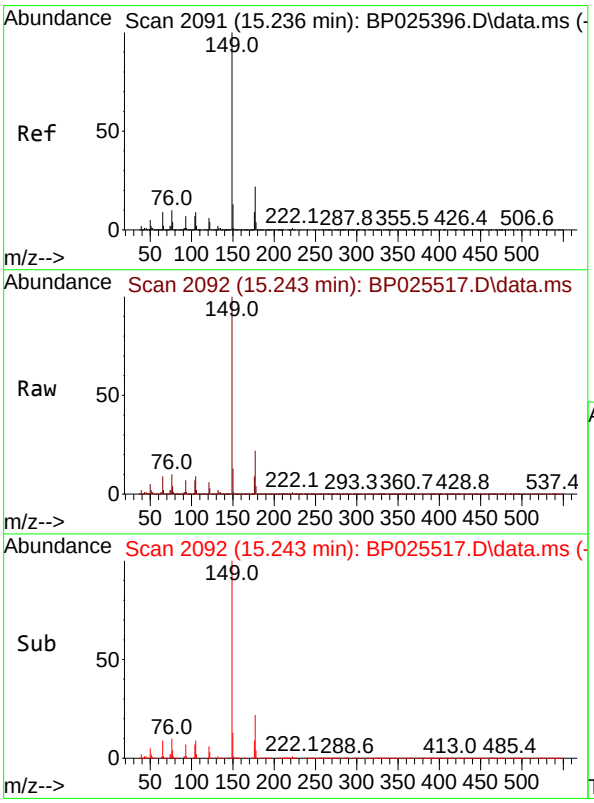
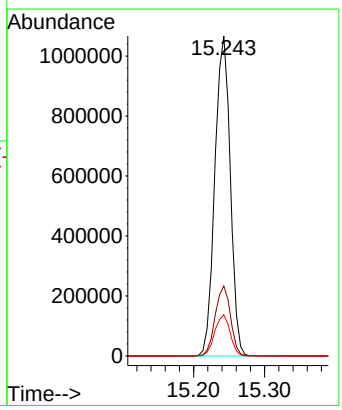
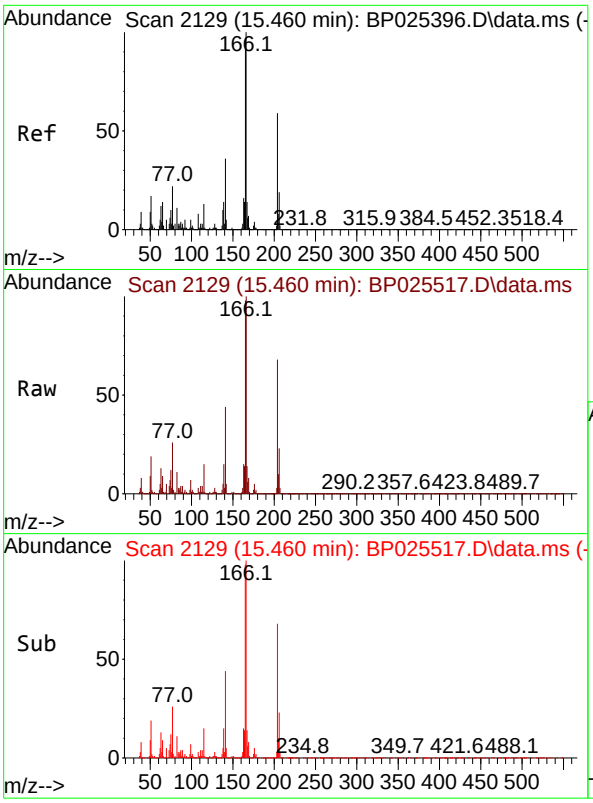


#60
Diethylphthalate
Concen: 48.175 ng
RT: 15.243 min Scan# 2092
Delta R.T. 0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:149 Resp: 1602496

Ion	Ratio	Lower	Upper
149	100		
177	21.9	17.3	25.9
150	12.9	10.3	15.5





#61
4-Chlorophenyl-phenylether
Concen: 46.278 ng
RT: 15.460 min Scan# 21
Delta R.T. 0.000 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:204 Resp: 70489

Ion	Ratio	Lower	Upper
204	100		
206	33.2	25.8	38.8
141	64.3	49.4	74.2

Instrument :
BNA_P
ClientSampleId :
22BP-WMSD

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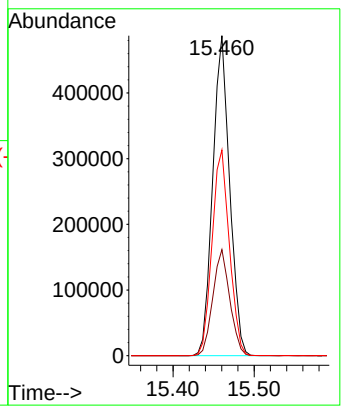
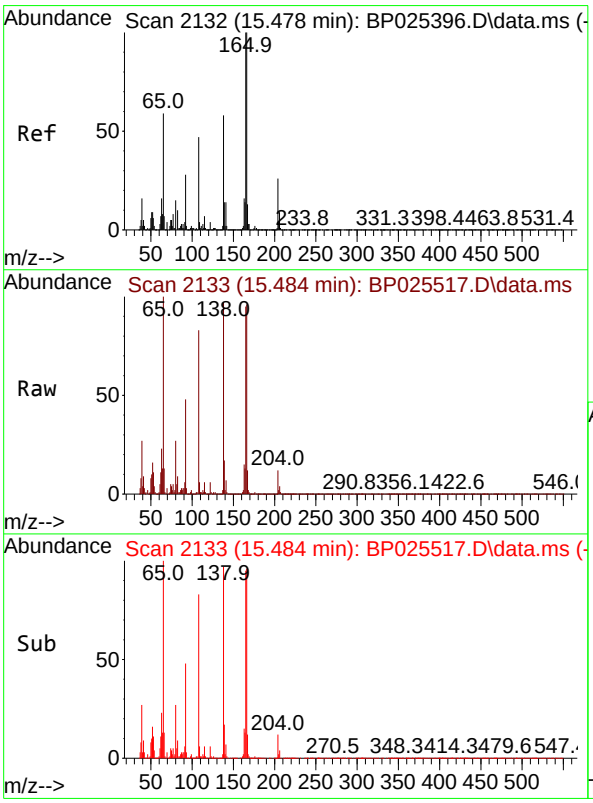
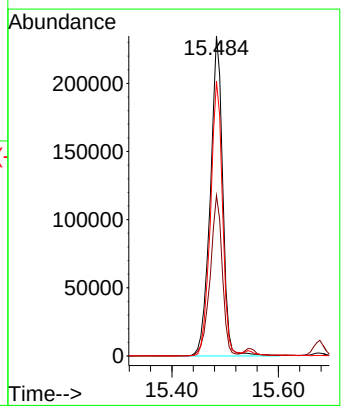


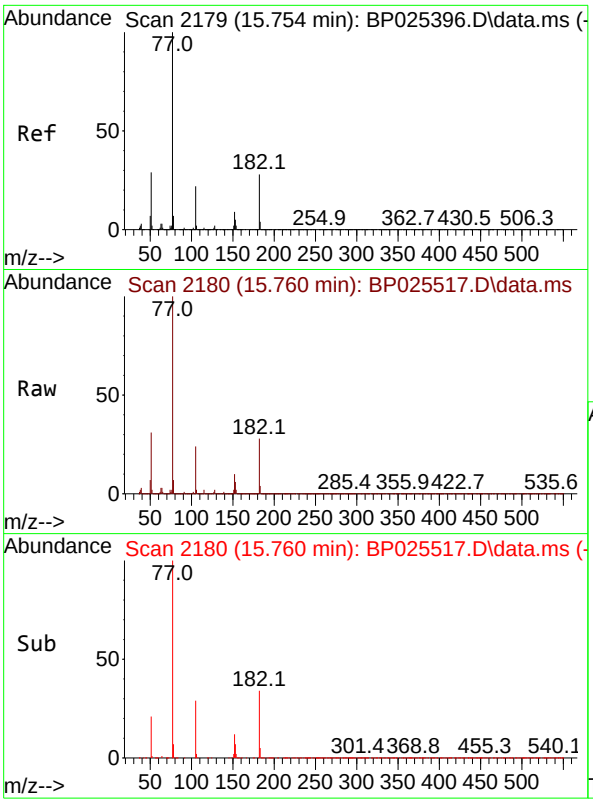


#62
4-Nitroaniline
Concen: 47.851 ng
RT: 15.484 min Scan# 2133
Delta R.T. 0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:138 Resp: 380825

Ion	Ratio	Lower	Upper
138	100		
92	50.2	29.1	69.1
108	85.8	61.5	101.5

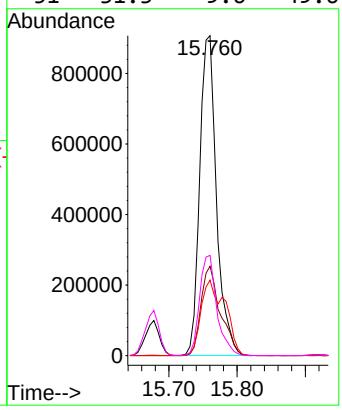




#63
Azobenzene
Concen: 54.544 ng
RT: 15.760 min Scan# 21
Delta R.T. 0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion: 77 Resp: 155355

Ion	Ratio	Lower	Upper
77	100		
182	27.9	7.5	47.5
105	23.6	2.1	42.1
51	31.3	9.6	49.6



Instrument :
BNA_P
ClientSampleId :
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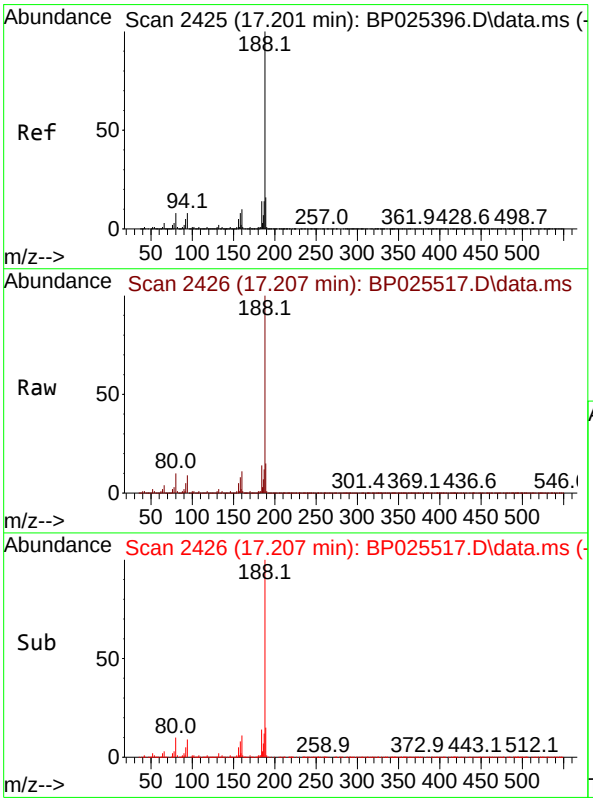
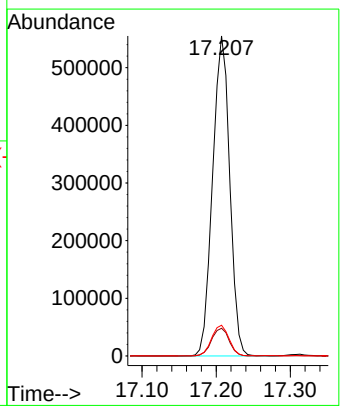
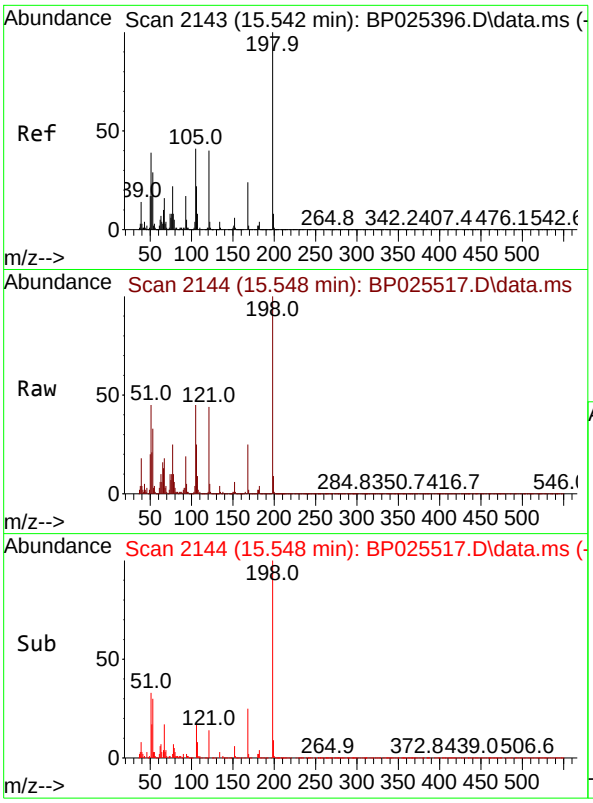


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.207 min Scan# 2426
Delta R.T. 0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:188 Resp: 890323

Ion	Ratio	Lower	Upper
188	100		
94	8.6	6.6	10.0
80	9.6	6.7	10.1





#65
4,6-Dinitro-2-methylphenol
Concen: 51.785 ng
RT: 15.548 min Scan# 21
Delta R.T. 0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:198 Resp: 28739

Ion	Ratio	Lower	Upper
198	100		
51	45.3	19.6	59.6
105	44.9	20.9	60.9

Instrument :
BNA_P
ClientSampleId :
22BP-WMSD

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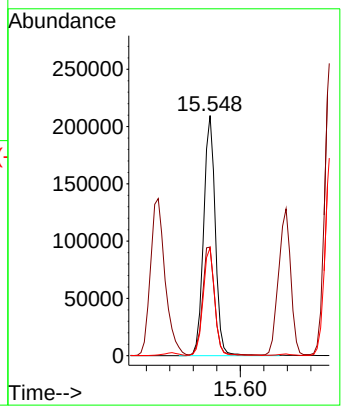
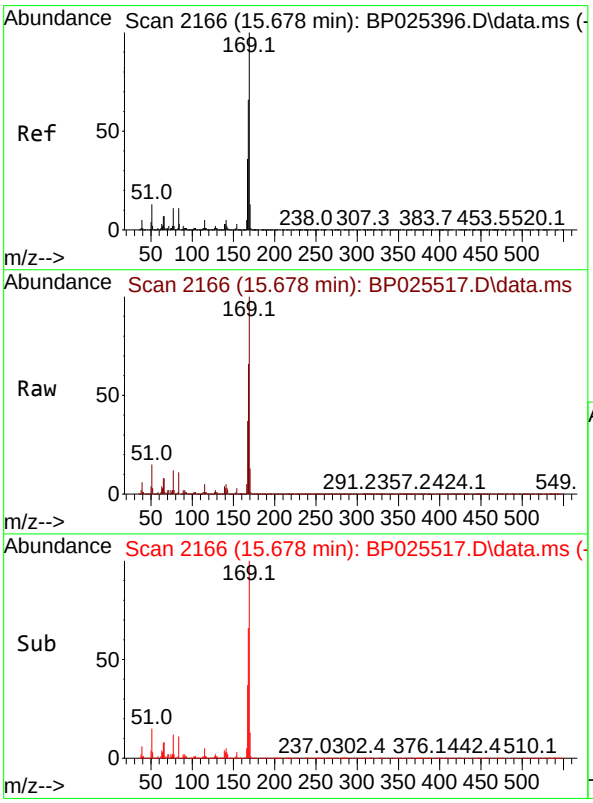
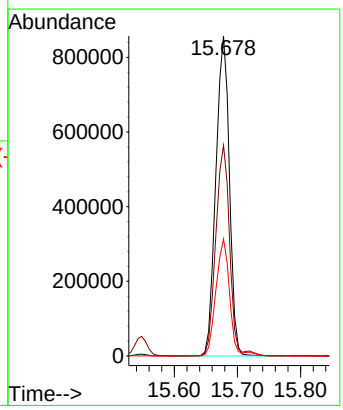


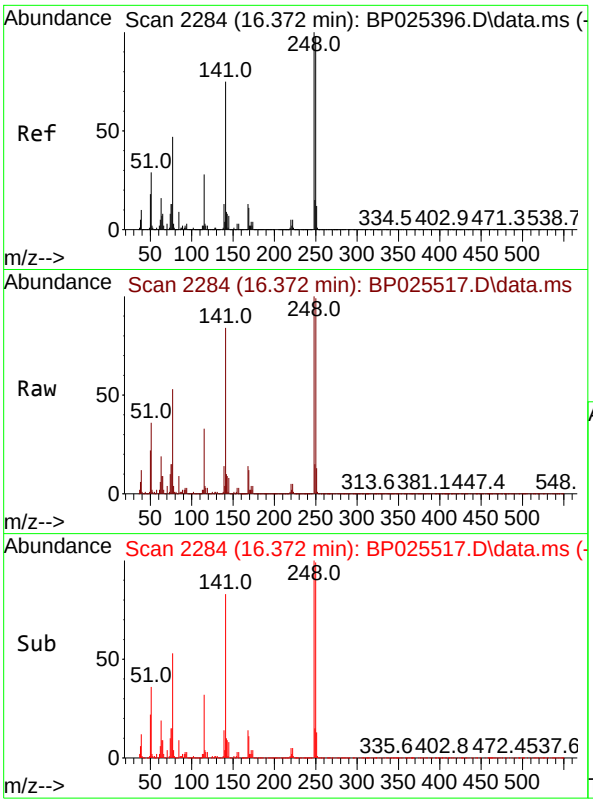


#66
n-Nitrosodiphenylamine
Concen: 46.939 ng
RT: 15.678 min Scan# 2166
Delta R.T. 0.000 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:169 Resp: 1274387

Ion	Ratio	Lower	Upper
169	100		
168	65.8	53.2	79.8
167	36.6	28.7	43.1

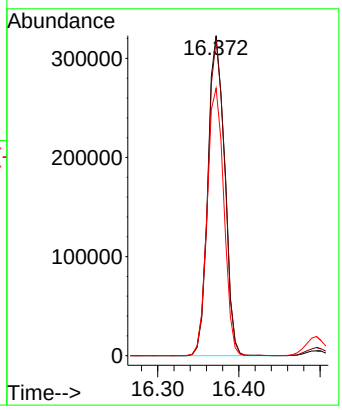




#67
4-Bromophenyl-phenylether
Concen: 47.077 ng
RT: 16.372 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:248 Resp: 46097

Ion	Ratio	Lower	Upper
248	100		
250	98.8	78.2	117.2
141	83.6	59.6	89.4



Instrument :
BNA_P
ClientSampleId :
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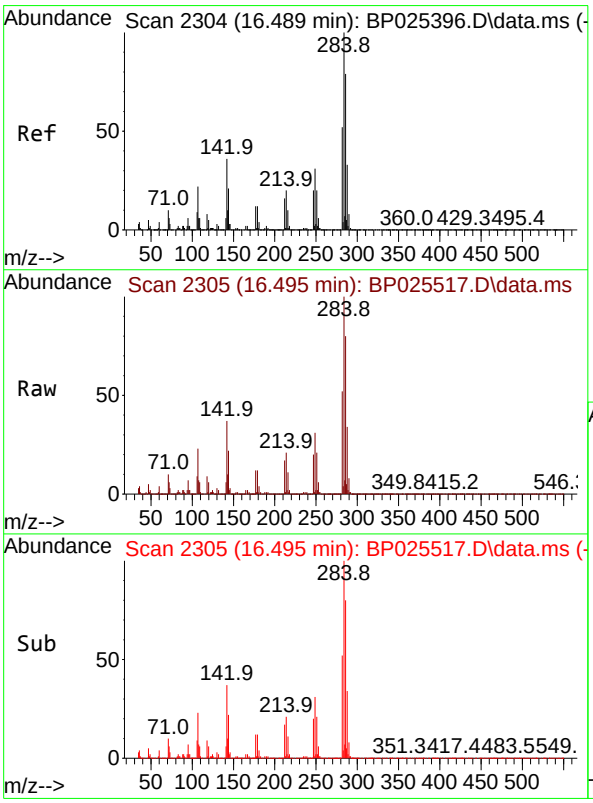
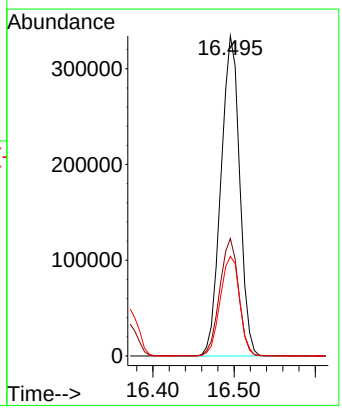
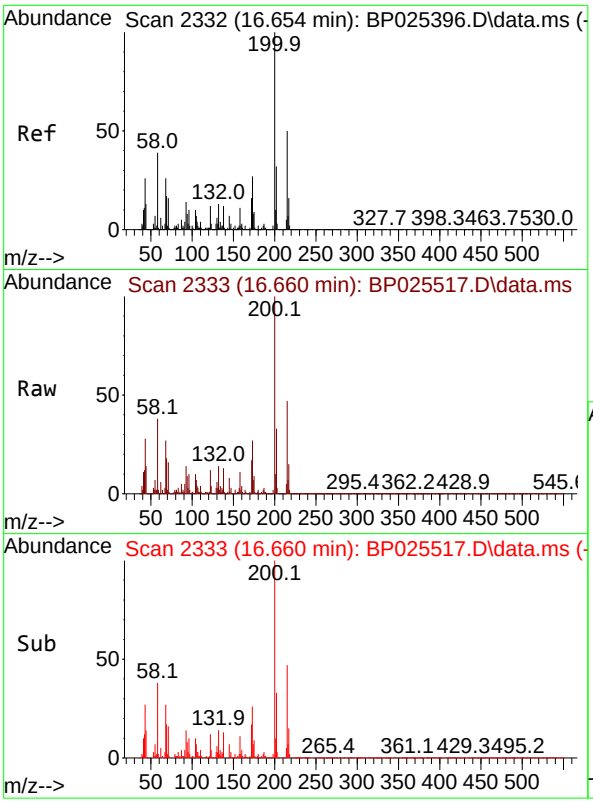


#68
Hexachlorobenzene
Concen: 47.319 ng
RT: 16.495 min Scan# 2305
Delta R.T. 0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:284 Resp: 537114

Ion	Ratio	Lower	Upper
284	100		
142	36.7	29.1	43.7
249	31.2	25.0	37.4

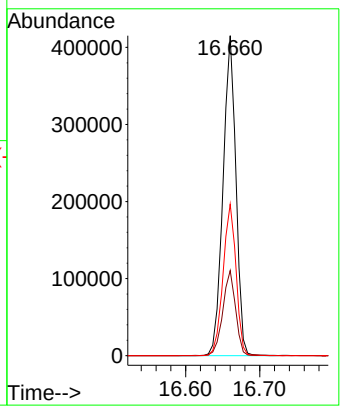




#69
Atrazine
Concen: 49.377 ng
RT: 16.660 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:200 Resp: 50204

Ion	Ratio	Lower	Upper
200	100		
173	26.6	6.7	46.7
215	47.4	29.7	69.7



Instrument :
BNA_P
ClientSampleId :
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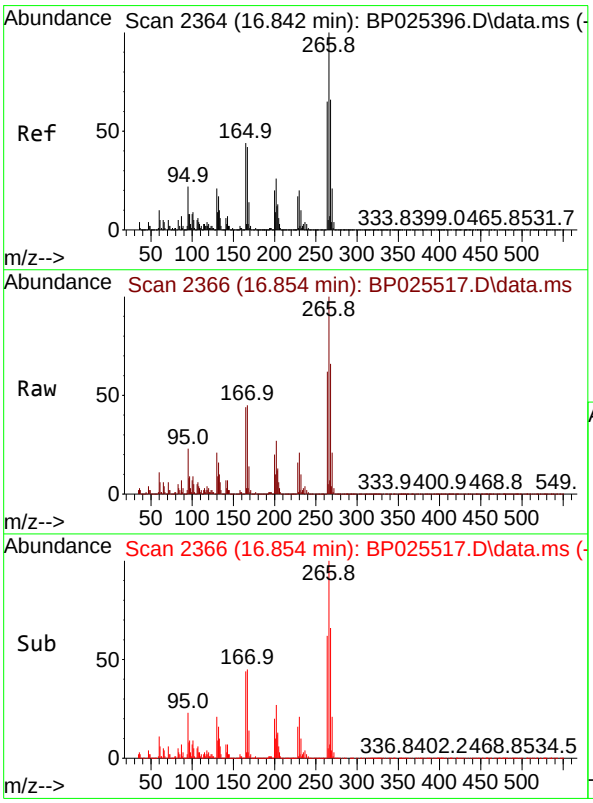
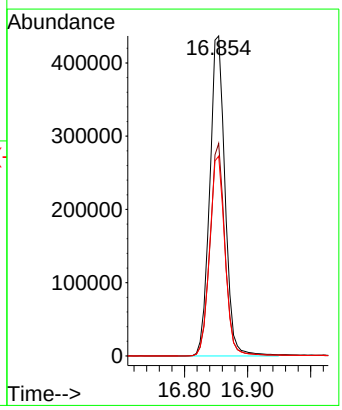
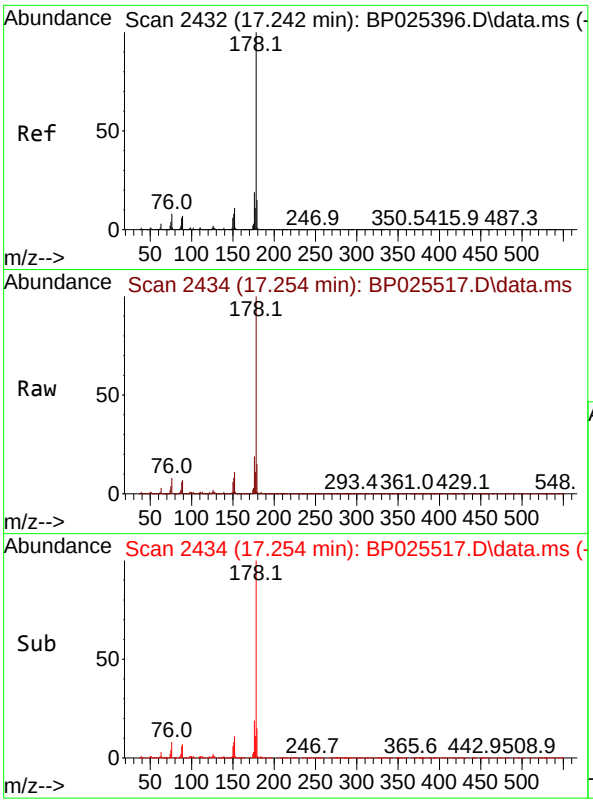


#70
Pentachlorophenol
Concen: 102.305 ng
RT: 16.854 min Scan# 2366
Delta R.T. 0.012 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:266 Resp: 733038

Ion	Ratio	Lower	Upper
266	100		
268	66.4	52.6	79.0
264	62.5	52.0	78.0

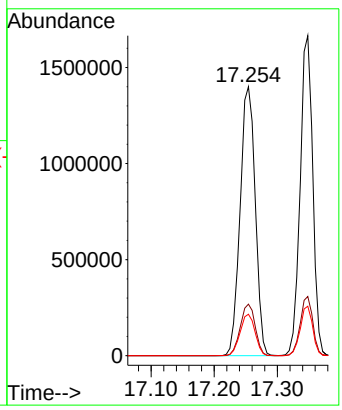




#71
Phenanthrene
Concen: 47.697 ng
RT: 17.254 min Scan# 24
Delta R.T. 0.012 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:178 Resp: 233278

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.5	23.3
179	15.4	12.2	18.4



Instrument :
BNA_P
ClientSampleId :
22BP-WMSD

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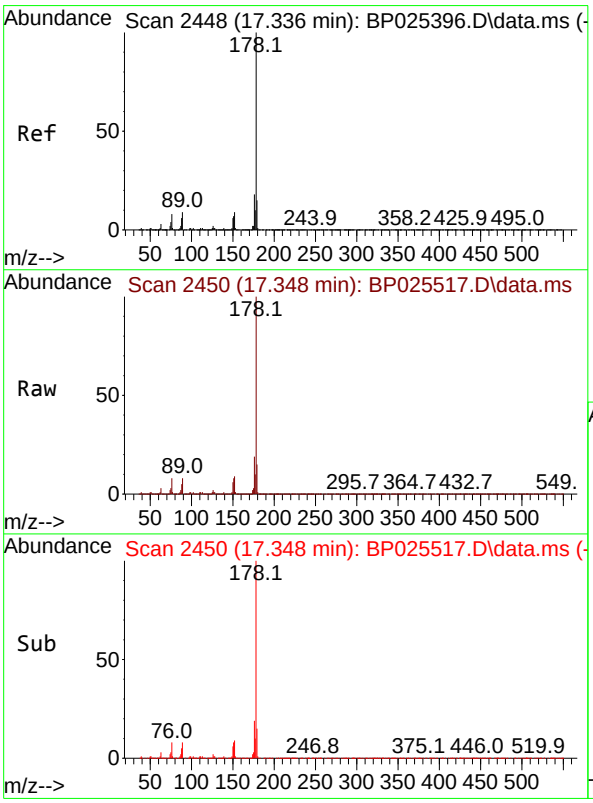
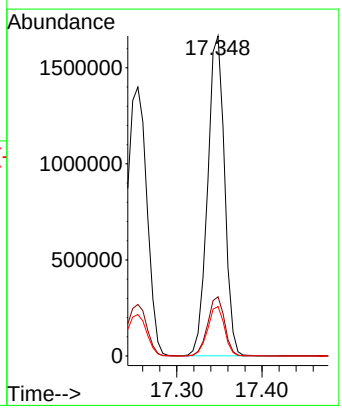
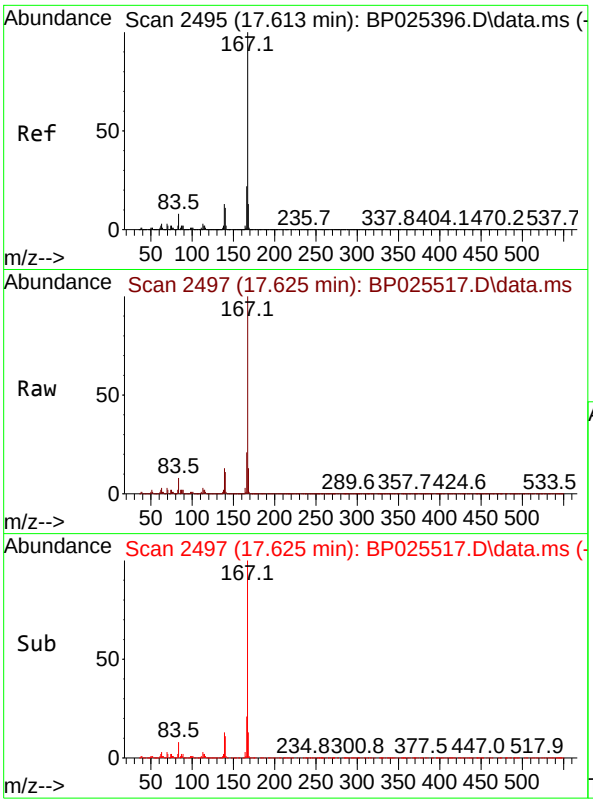


#72
Anthracene
Concen: 46.121 ng
RT: 17.348 min Scan# 2450
Delta R.T. 0.012 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:178 Resp: 2303551

Ion	Ratio	Lower	Upper
178	100		
176	18.5	14.7	22.1
179	15.4	12.2	18.2

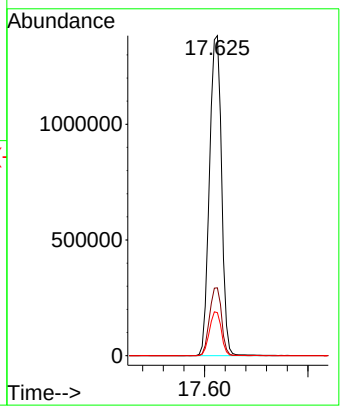




#73
Carbazole
Concen: 47.601 ng
RT: 17.625 min Scan# 24
Delta R.T. 0.012 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:167 Resp: 223933

Ion	Ratio	Lower	Upper
167	100		
166	21.2	17.5	26.3
139	13.5	10.6	16.0



Instrument :
BNA_P
ClientSampleId :
22BP-WMSD

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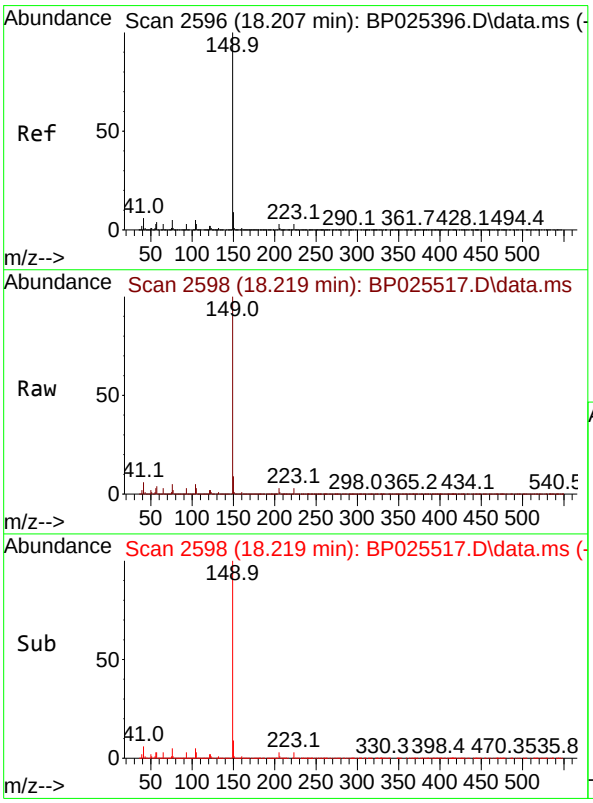
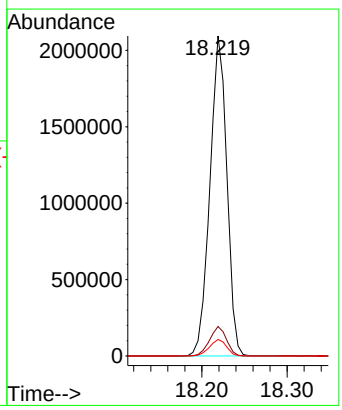
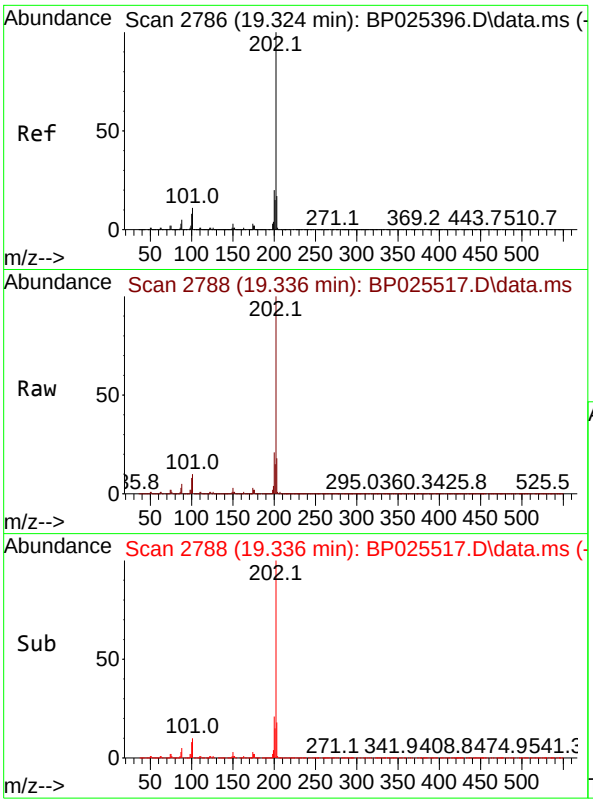


#74
Di-n-butylphthalate
Concen: 49.977 ng
RT: 18.219 min Scan# 2598
Delta R.T. 0.012 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:149 Resp: 2892663

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.4	11.0
104	5.2	4.2	6.2

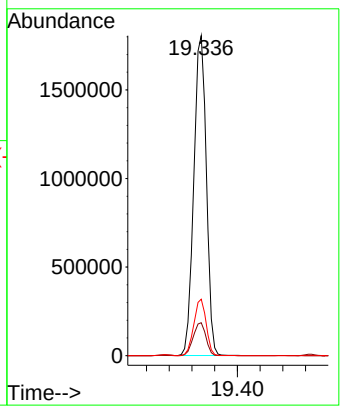




#75
Fluoranthene
Concen: 47.653 ng
RT: 19.336 min Scan# 2
Delta R.T. 0.012 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:202 Resp: 278002

Ion	Ratio	Lower	Upper
202	100		
101	10.3	0.0	31.1
203	17.7	0.0	37.3



Instrument :
BNA_P
ClientSampleId :
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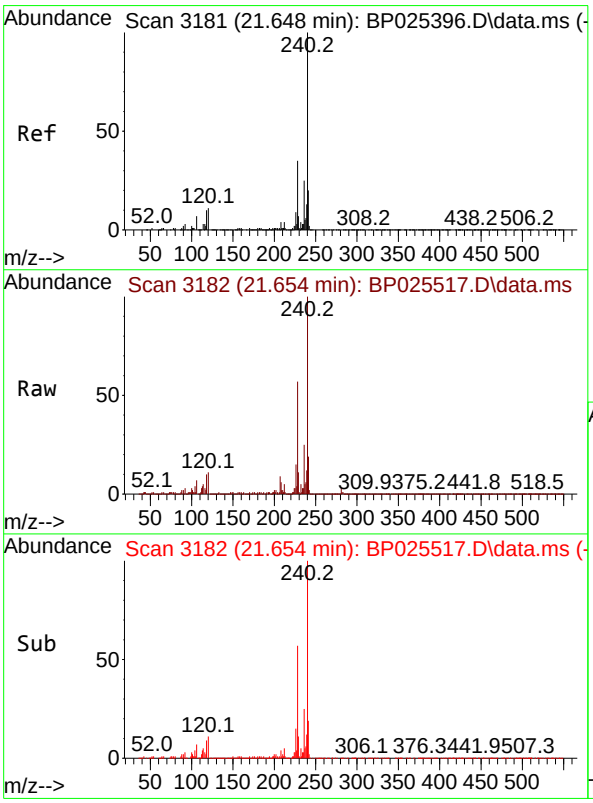
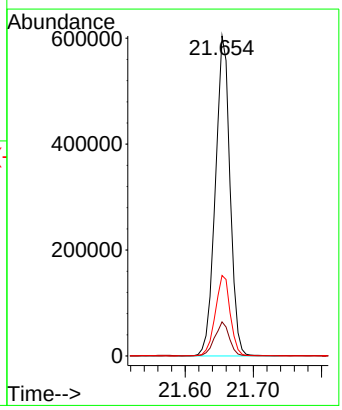
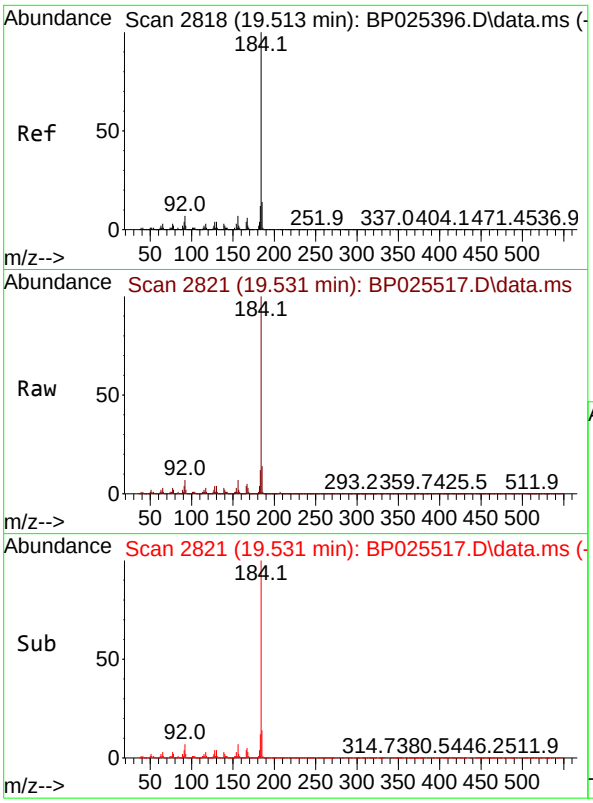


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.654 min Scan# 3182
Delta R.T. 0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:240 Resp: 903947

Ion	Ratio	Lower	Upper
240	100		
120	10.6	8.9	13.3
236	25.1	19.8	29.8

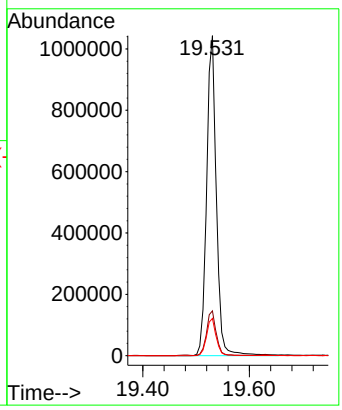




#77
Benzidine
Concen: 42.524 ng
RT: 19.531 min Scan# 2
Delta R.T. 0.018 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:184 Resp: 131186

Ion	Ratio	Lower	Upper
184	100		
185	14.0	11.5	17.3
183	11.7	9.4	14.2



Instrument :
BNA_P
ClientSampleId :
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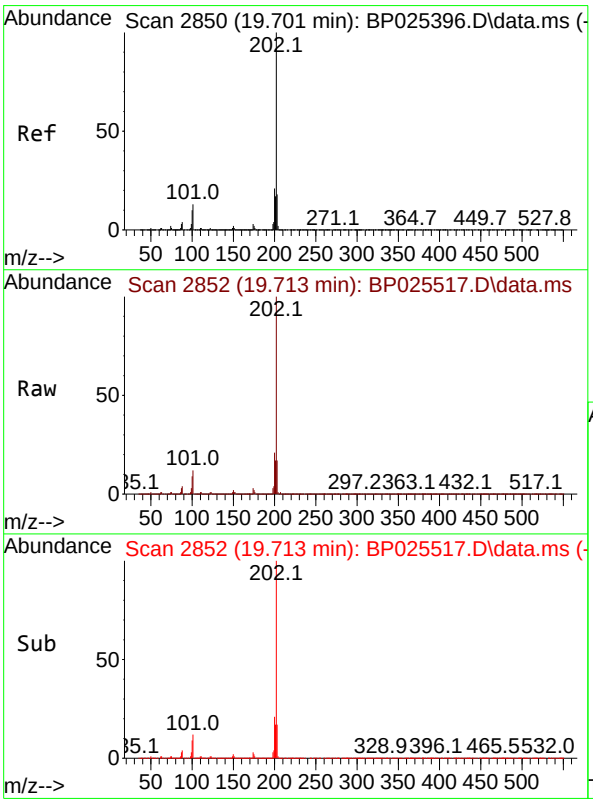
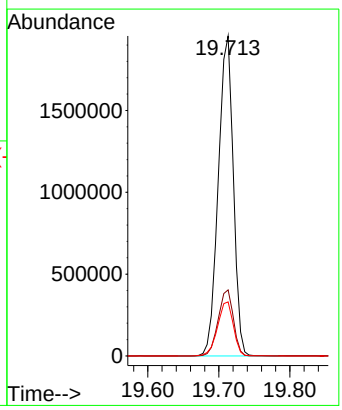
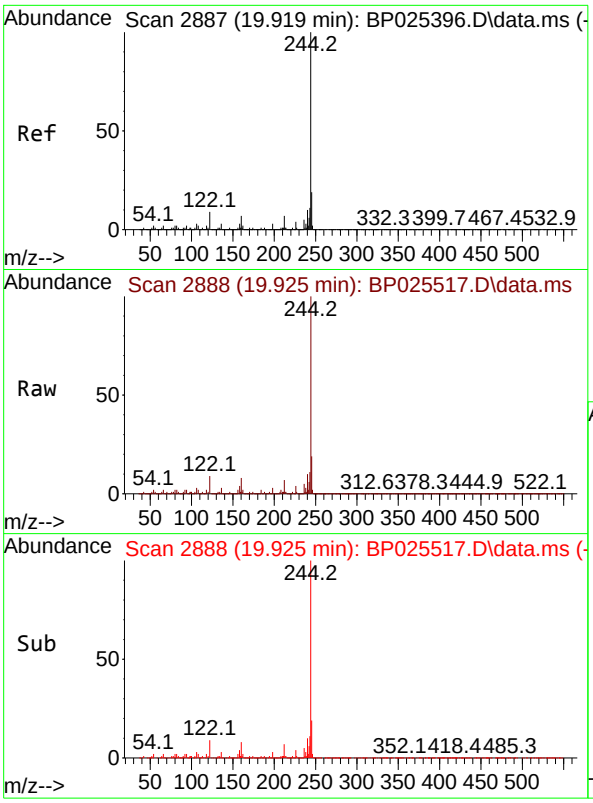


#78
Pyrene
Concen: 48.721 ng
RT: 19.713 min Scan# 2852
Delta R.T. 0.012 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:202 Resp: 2862551

Ion	Ratio	Lower	Upper
202	100		
200	20.7	16.9	25.3
203	16.9	14.2	21.2

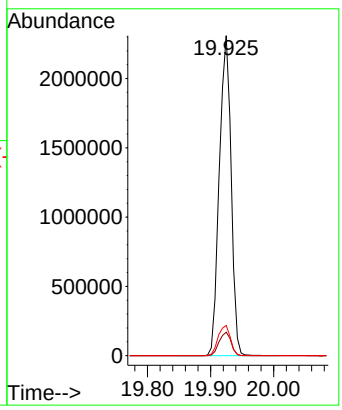




#79
Terphenyl-d14
Concen: 60.718 ng
RT: 19.925 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:244 Resp: 299990

Ion	Ratio	Lower	Upper
244	100		
212	7.3	5.8	8.6
122	9.4	7.4	11.2



Instrument :
BNA_P
ClientSampleId :
22BP-WMSD

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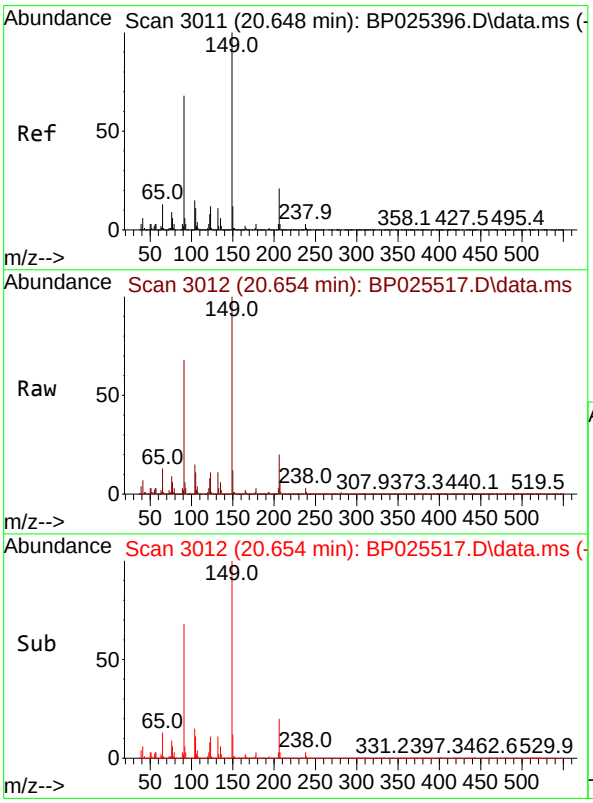
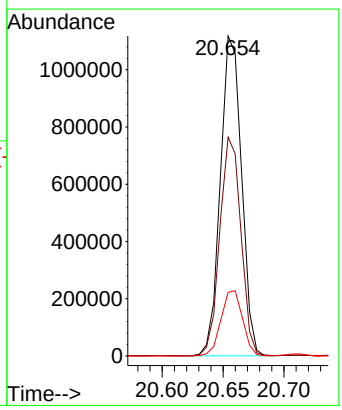
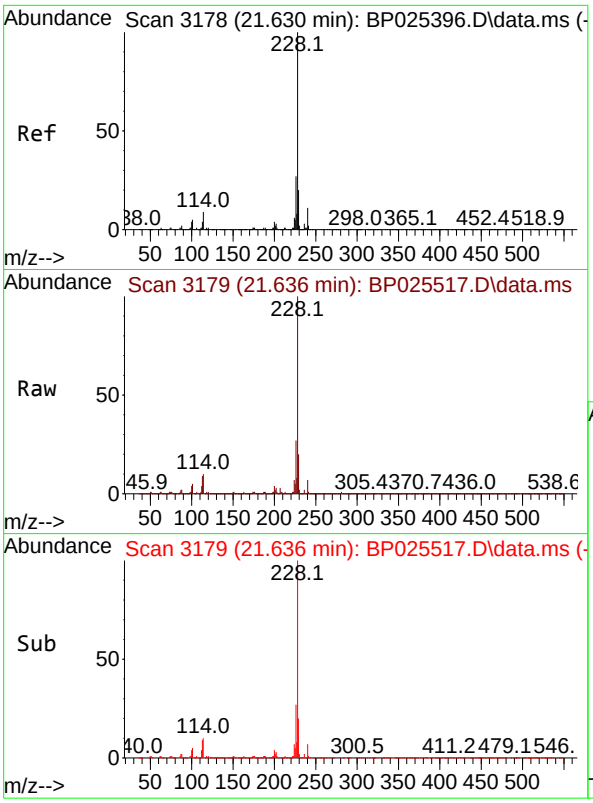


#80
Butylbenzylphthalate
Concen: 50.777 ng
RT: 20.654 min Scan# 3012
Delta R.T. 0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:149 Resp: 1352098

Ion	Ratio	Lower	Upper
149	100		
91	68.4	54.2	81.2
206	19.9	16.6	24.8

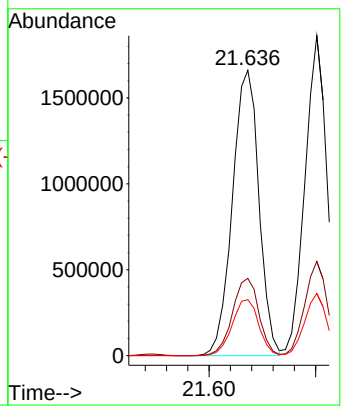




#81
Benzo(a)anthracene
Concen: 48.153 ng
RT: 21.636 min Scan# 3
Delta R.T. 0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:228 Resp: 287065

Ion	Ratio	Lower	Upper
228	100		
226	27.0	21.7	32.5
229	19.6	15.6	23.4



Instrument :
BNA_P
ClientSampleId :
22BP-WMSD

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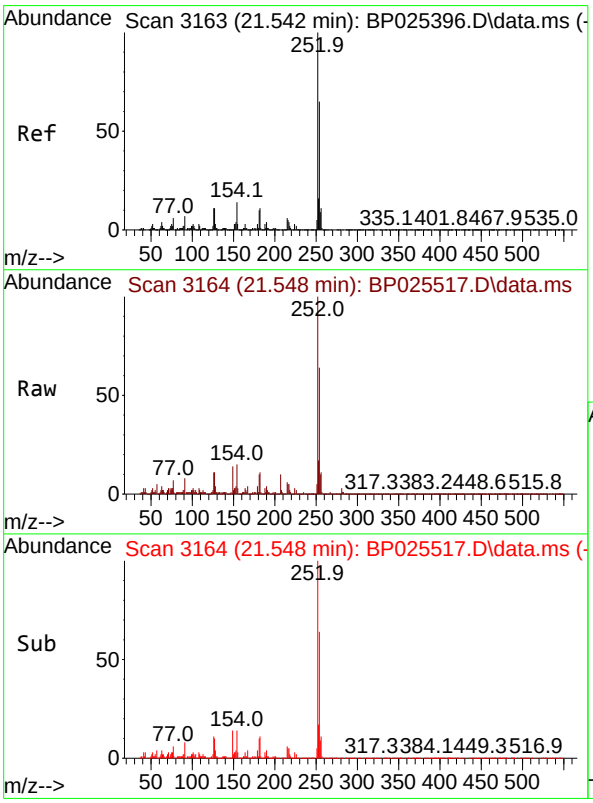
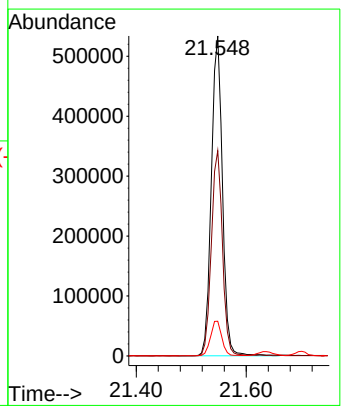
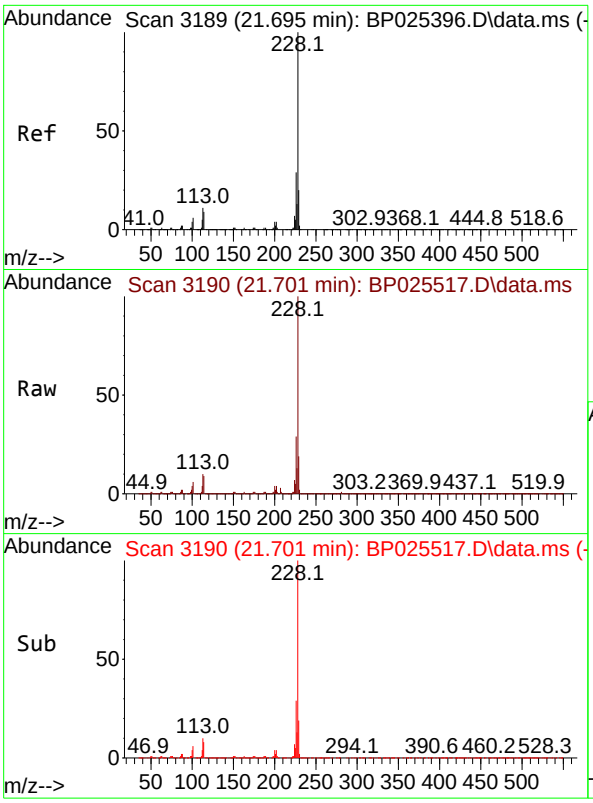


#82
3,3'-Dichlorobenzidine
Concen: 33.263 ng
RT: 21.548 min Scan# 3164
Delta R.T. 0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:252 Resp: 747438

Ion	Ratio	Lower	Upper
252	100		
254	64.2	51.8	77.6
126	10.8	9.1	13.7

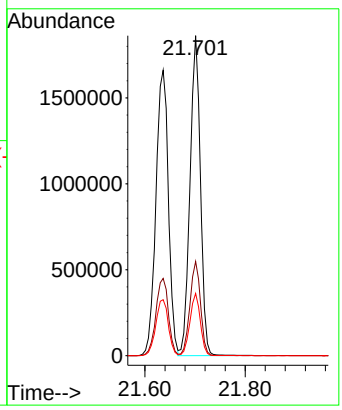




#83
Chrysene
Concen: 48.078 ng
RT: 21.701 min Scan# 3
Delta R.T. 0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:228 Resp: 268418

Ion	Ratio	Lower	Upper
228	100		
226	29.4	23.2	34.8
229	19.5	15.6	23.4



Instrument :
BNA_P
ClientSampleId :
22BP-WMSD

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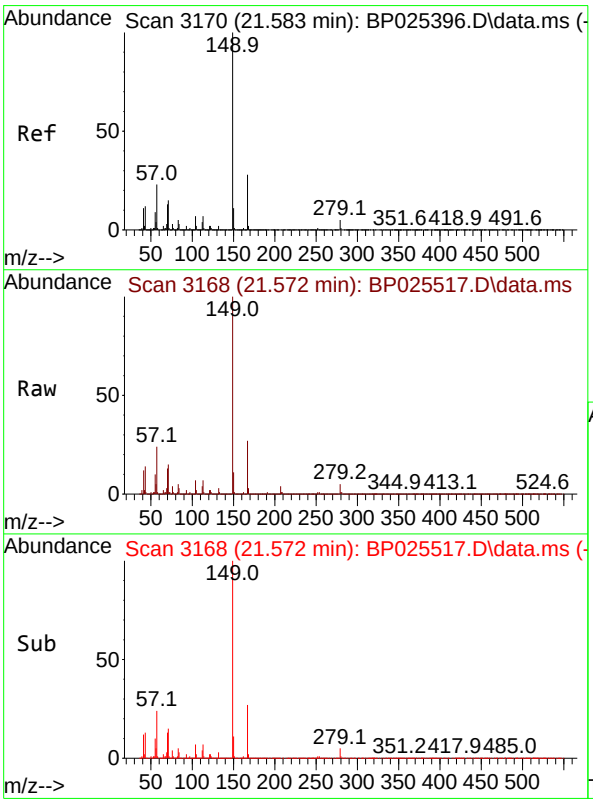
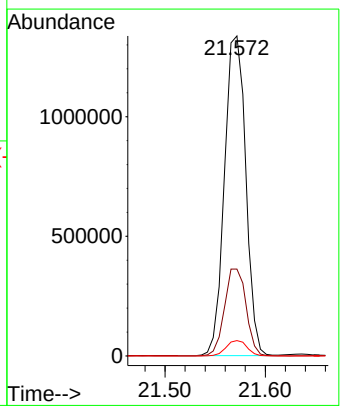
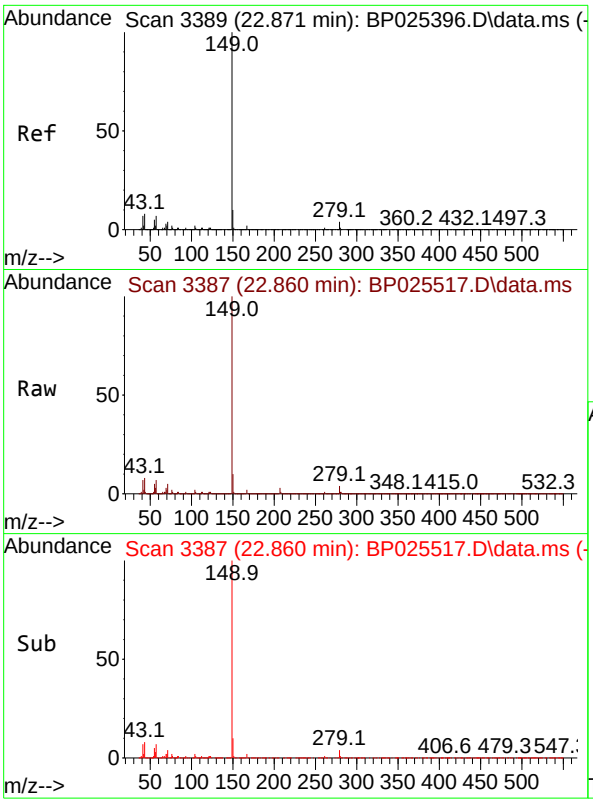


#84
Bis(2-ethylhexyl)phthalate
Concen: 50.332 ng
RT: 21.572 min Scan# 3168
Delta R.T. -0.012 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:149 Resp: 1972886

Ion	Ratio	Lower	Upper
149	100		
167	27.2	22.1	33.1
279	4.8	3.8	5.6





#85
Di-n-octyl phthalate
Concen: 51.668 ng
RT: 22.860 min Scan# 3
Delta R.T. -0.012 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:149 Resp: 348354

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	8.3	6.3	9.5

Instrument :
BNA_P
ClientSampleId :
22BP-WMSD

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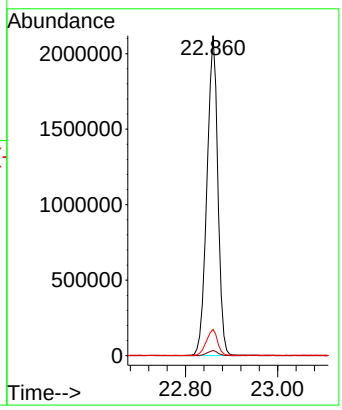
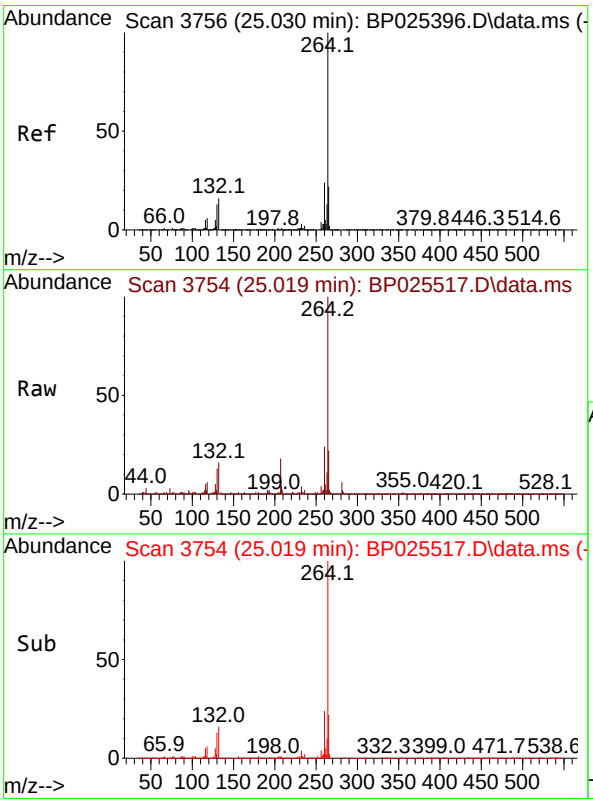
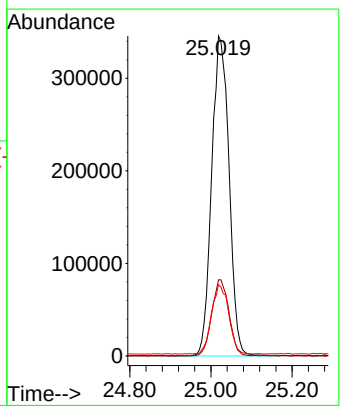


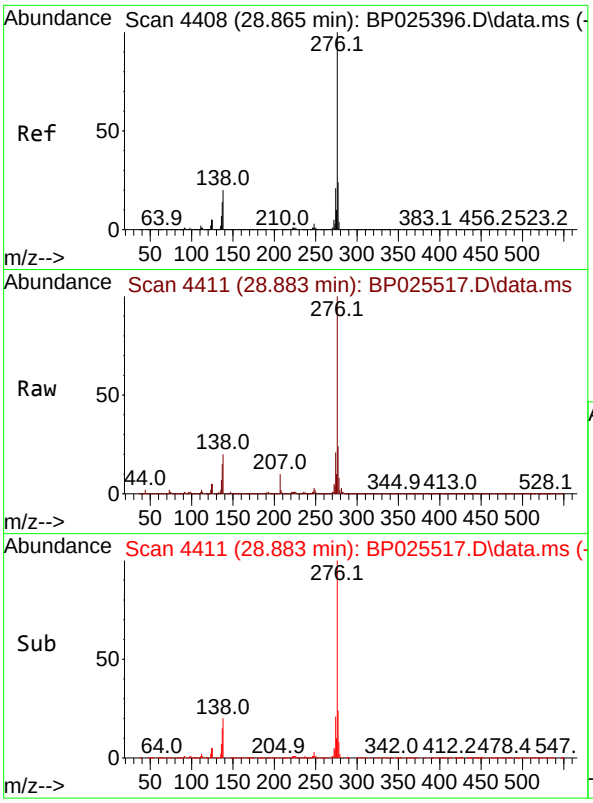


#86
Perylene-d12
Concen: 20.000 ng
RT: 25.019 min Scan# 3754
Delta R.T. -0.012 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:264 Resp: 1025346

Ion	Ratio	Lower	Upper
264	100		
260	23.8	19.3	28.9
265	22.3	17.4	26.0

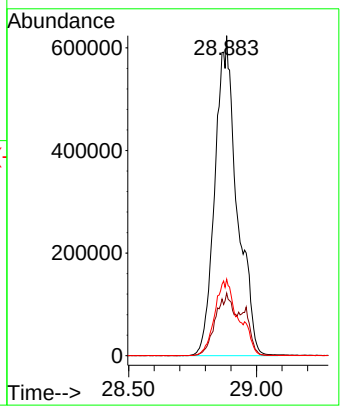




#87
Indeno(1,2,3-cd)pyrene
Concen: 49.927 ng m
RT: 28.883 min Scan# 4
Delta R.T. 0.018 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:276 Resp: 375426

Ion	Ratio	Lower	Upper
276	100		
138	16.3	12.9	19.3
277	11.5	17.0	25.6



Instrument :
BNA_P
ClientSampleId :
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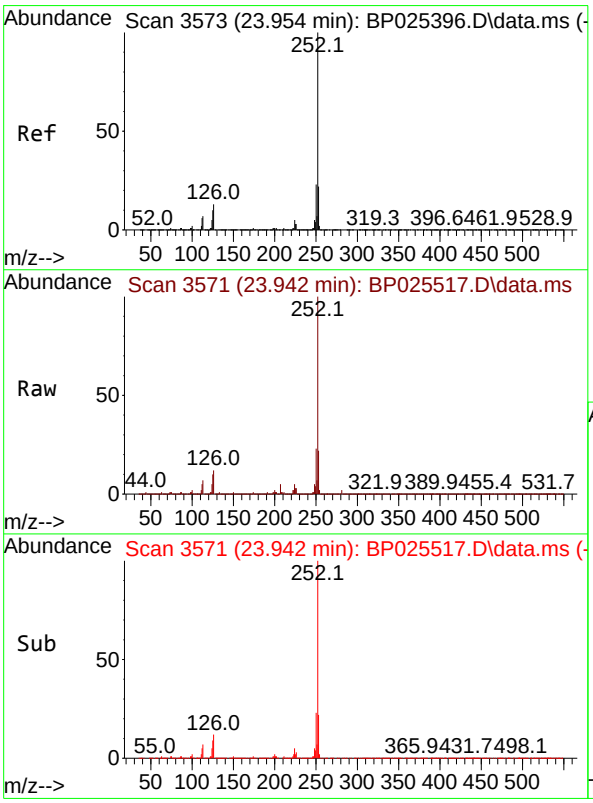
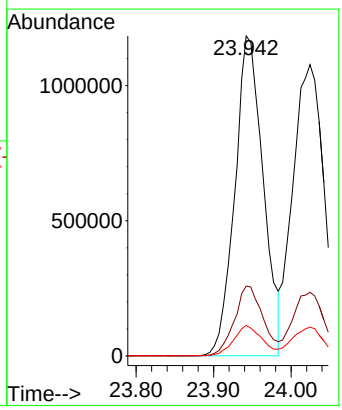
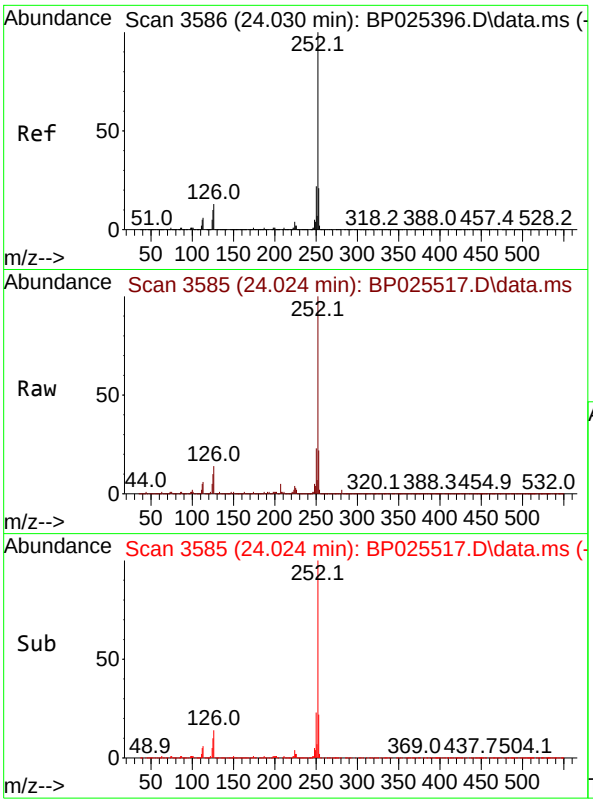


#88
Benzo(b)fluoranthene
Concen: 49.886 ng
RT: 23.942 min Scan# 3571
Delta R.T. -0.012 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:252 Resp: 3016187

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.7	26.5
125	9.6	7.9	11.9

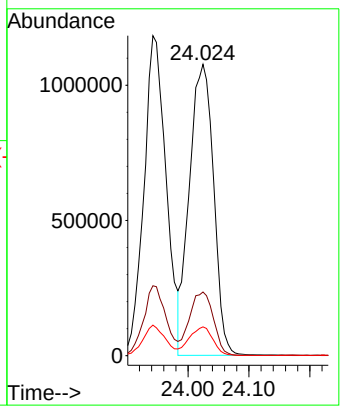




#89
Benzo(k)fluoranthene
Concen: 49.184 ng
RT: 24.024 min Scan# 3
Delta R.T. -0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:252 Resp: 297579

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.1	25.7
125	9.9	7.8	11.6



Instrument :
BNA_P
ClientSampleId :
22BP-WMSD

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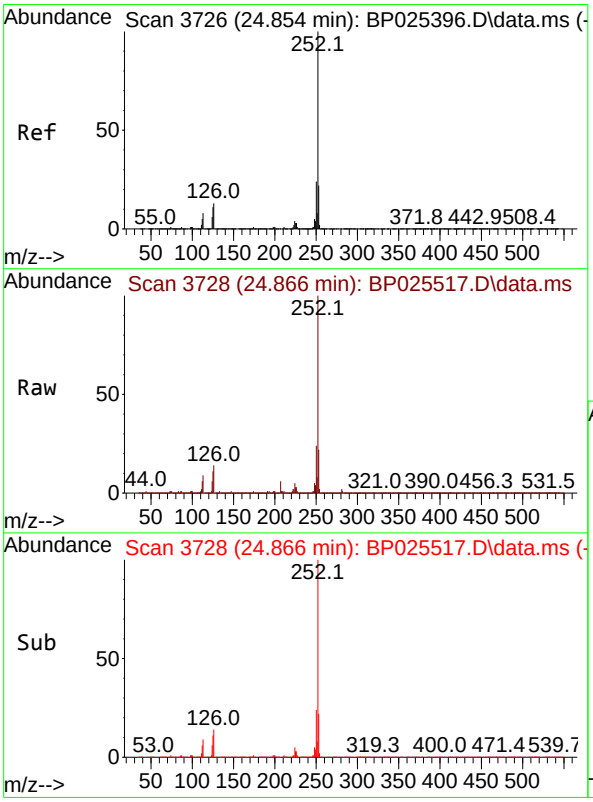
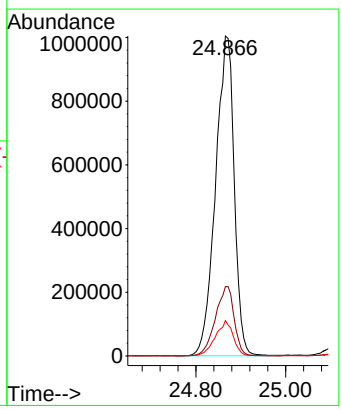
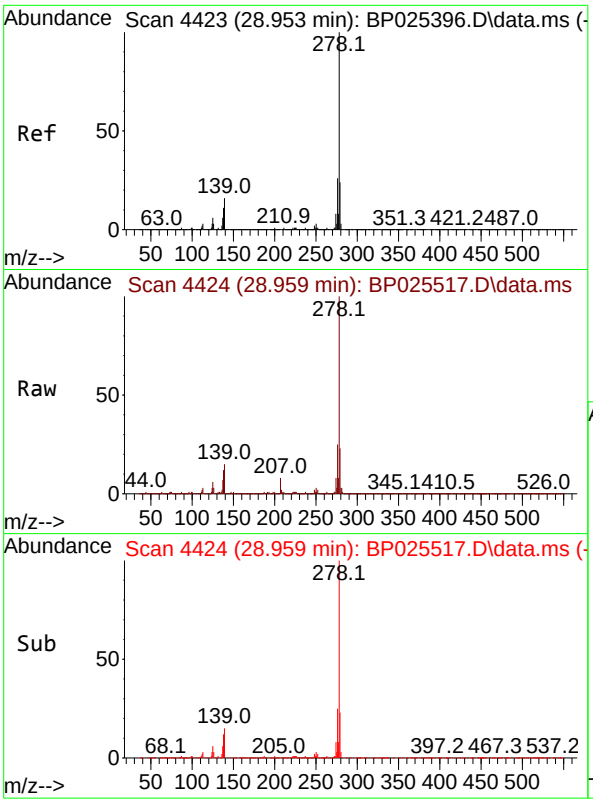


#90
Benzo(a)pyrene
Concen: 49.381 ng
RT: 24.866 min Scan# 3728
Delta R.T. 0.012 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:252 Resp: 2906291

Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.5	26.3
125	11.0	8.7	13.1

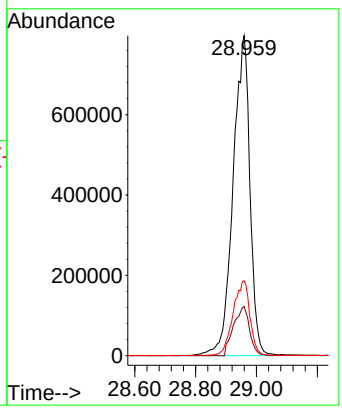




#91
Dibenzo(a,h)anthracene
Concen: 49.809 ng
RT: 28.959 min Scan# 4
Delta R.T. 0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:278 Resp: 306077

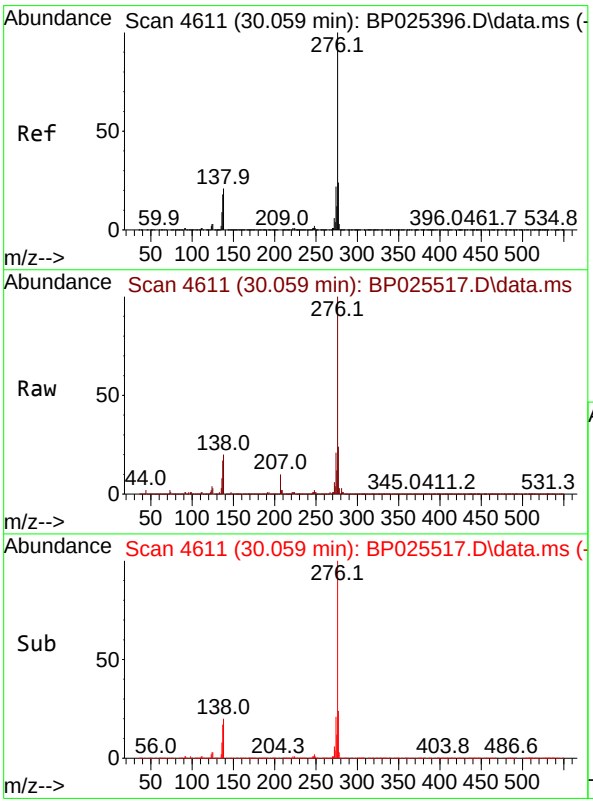
Ion	Ratio	Lower	Upper
278	100		
139	15.4	13.0	19.4
279	23.4	19.4	29.2



Instrument :
BNA_P
ClientSampleId :
22BP-WMSD

Manual Integrations
APPROVED

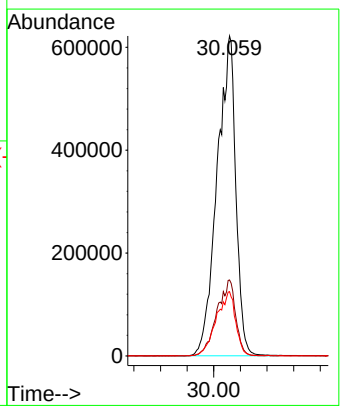
Reviewed By :Rahul Chavli 08/21/2025
Supervised By :Jagrut Upadhyay 08/21/2025



#92
Benzo(g,h,i)perylene
Concen: 50.261 ng
RT: 30.059 min Scan# 4611
Delta R.T. 0.000 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:276 Resp: 3035965

Ion	Ratio	Lower	Upper
276	100		
277	23.8	19.4	29.0
138	20.1	16.7	25.1



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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/06/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	38M-NMSD	SDG No.:	Q2819
Lab Sample ID:	Q2819-17MSD	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	87.5
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
BP025521.D	1	08/15/25 08:25	08/21/25 00:35	PB169259

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
100-52-7	Benzaldehyde	1100		180	310	380	ug/Kg
108-95-2	Phenol	1800		25.2	150	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1700		27.7	150	190	ug/Kg
95-57-8	2-Chlorophenol	1800		27.8	150	190	ug/Kg
95-48-7	2-Methylphenol	1800		34.1	150	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1700		42.8	150	190	ug/Kg
98-86-2	Acetophenone	1800		33.7	150	190	ug/Kg
65794-96-9	3+4-Methylphenols	1700		46.9	310	380	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1600		54.1	91.3	91.3	ug/Kg
67-72-1	Hexachloroethane	1800		20.1	150	190	ug/Kg
98-95-3	Nitrobenzene	1900		20.9	150	190	ug/Kg
78-59-1	Isophorone	1700		37.4	150	190	ug/Kg
88-75-5	2-Nitrophenol	1900		66.4	150	190	ug/Kg
105-67-9	2,4-Dimethylphenol	1800		73.9	150	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1800		35.1	150	190	ug/Kg
120-83-2	2,4-Dichlorophenol	1900		32.3	150	190	ug/Kg
91-20-3	Naphthalene	1800		25.9	150	190	ug/Kg
106-47-8	4-Chloroaniline	960		40.4	150	190	ug/Kg
87-68-3	Hexachlorobutadiene	1800		28.9	150	190	ug/Kg
105-60-2	Caprolactam	1900		59.4	310	380	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1800		32.7	150	190	ug/Kg
91-57-6	2-Methylnaphthalene	1700		29.2	150	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	3700	E	130	310	380	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1900		22.6	150	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1900		33.2	150	190	ug/Kg
92-52-4	1,1-Biphenyl	1800		24.9	150	190	ug/Kg
91-58-7	2-Chloronaphthalene	1800		25.7	150	190	ug/Kg
88-74-4	2-Nitroaniline	2000		54.9	150	190	ug/Kg
131-11-3	Dimethylphthalate	1800		30.9	150	190	ug/Kg

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/06/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	38M-NMSD	SDG No.:	Q2819
Lab Sample ID:	Q2819-17MSD	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	87.5
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
BP025521.D	1	08/15/25 08:25	08/21/25 00:35	PB169259

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1800		33.0	150	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	1900		38.3	150	190	ug/Kg
99-09-2	3-Nitroaniline	1300		52.5	150	190	ug/Kg
83-32-9	Acenaphthene	1800		24.3	150	190	ug/Kg
51-28-5	2,4-Dinitrophenol	4400	E	260	310	380	ug/Kg
100-02-7	4-Nitrophenol	4000	E	120	310	380	ug/Kg
132-64-9	Dibenzofuran	1800		25.9	150	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	2000		57.2	150	190	ug/Kg
84-66-2	Diethylphthalate	1900		32.3	150	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1800		30.5	150	190	ug/Kg
86-73-7	Fluorene	1800		28.9	150	190	ug/Kg
100-01-6	4-Nitroaniline	1900		73.2	150	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	2000		120	310	380	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1800		37.5	150	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1800		31.7	150	190	ug/Kg
118-74-1	Hexachlorobenzene	1800		28.9	150	190	ug/Kg
1912-24-9	Atrazine	1900		38.8	150	190	ug/Kg
87-86-5	Pentachlorophenol	4000	E	58.5	310	380	ug/Kg
85-01-8	Phenanthrene	1800		23.8	150	190	ug/Kg
120-12-7	Anthracene	1800		38.0	150	190	ug/Kg
86-74-8	Carbazole	1800		35.6	150	190	ug/Kg
84-74-2	Di-n-butylphthalate	1900		54.7	150	190	ug/Kg
206-44-0	Fluoranthene	1800		34.2	150	190	ug/Kg
129-00-0	Pyrene	1800		41.1	150	190	ug/Kg
85-68-7	Butylbenzylphthalate	2000		81.5	150	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1100		41.9	310	380	ug/Kg
56-55-3	Benzo(a)anthracene	1800		26.2	150	190	ug/Kg
218-01-9	Chrysene	1800		22.7	150	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1900		67.5	150	190	ug/Kg
117-84-0	Di-n-octyl phthalate	1900		99.0	310	380	ug/Kg
205-99-2	Benzo(b)fluoranthene	1900		21.7	150	190	ug/Kg

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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/06/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	38M-NMSD	SDG No.:	Q2819
Lab Sample ID:	Q2819-17MSD	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	87.5
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
BP025521.D	1	08/15/25 08:25	08/21/25 00:35	PB169259

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1800		25.6	150	190	ug/Kg
50-32-8	Benzo(a)pyrene	1800		33.7	150	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1800		33.2	150	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1800		31.3	150	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1800		29.3	150	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1800		29.2	150	190	ug/Kg
123-91-1	1,4-Dioxane	1600		51.6	150	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1900		31.3	150	190	ug/Kg
SURROGATES							
367-12-4	2-Fluorophenol	115		35 - 115		77%	SPK: 150
13127-88-3	Phenol-d6	112		34 - 127		74%	SPK: 150
4165-60-0	Nitrobenzene-d5	74.1		37 - 122		74%	SPK: 100
321-60-8	2-Fluorobiphenyl	65.3		44 - 115		65%	SPK: 100
118-79-6	2,4,6-Tribromophenol	116		39 - 132		78%	SPK: 150
1718-51-0	Terphenyl-d14	65.5		54 - 127		65%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	172000	7.784				
1146-65-2	Naphthalene-d8	663000	10.554				
15067-26-2	Acenaphthene-d10	423000	14.401				
1517-22-2	Phenanthrene-d10	877000	17.201				
1719-03-5	Chrysene-d12	923000	21.648				
1520-96-3	Perylene-d12	1000000	25.012				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025521.D
Acq On : 21 Aug 2025 00:35
Operator : CG/JU
Sample : Q2819-17MSD
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 21 03:06:18 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
38M-NMSD

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 08/21/2025
Supervised By :Jagrut Upadhyay 08/21/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.784	152	171527	20.000	ng		-0.01
21) Naphthalene-d8	10.554	136	663397	20.000	ng		0.00
39) Acenaphthene-d10	14.401	164	422830	20.000	ng		0.00
64) Phenanthrene-d10	17.201	188	876970	20.000	ng		0.00
76) Chrysene-d12	21.648	240	922591	20.000	ng		0.00
86) Perylene-d12	25.012	264	1004402	20.000	ng		-0.02
System Monitoring Compounds							
5) 2-Fluorophenol	5.407	112	1185975	114.824	ng		0.00
7) Phenol-d6	6.972	99	1479802	111.749	ng		0.00
23) Nitrobenzene-d5	8.931	82	971459	74.076	ng		0.00
42) 2,4,6-Tribromophenol	15.913	330	661648	116.255	ng		0.00
45) 2-Fluorobiphenyl	13.019	172	2019365	65.271	ng		0.00
79) Terphenyl-d14	19.918	244	3302241	65.486	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.331	88	165537	40.917	ng		98
3) Pyridine	3.725	79	452402	40.855	ng		94
4) n-Nitrosodimethylamine	3.631	42	228829	50.124	ng		93
6) Aniline	7.119	93	627117	35.149	ng		97
8) 2-Chlorophenol	7.360	128	549667	47.160	ng		97
9) Benzaldehyde	6.937	77	262818	28.328	ng		98
10) Phenol	6.995	94	662998	47.714	ng		96
11) bis(2-Chloroethyl)ether	7.213	93	492646	45.488	ng		98
12) 1,3-Dichlorobenzene	7.678	146	589038	45.833	ng		98
13) 1,4-Dichlorobenzene	7.819	146	601939	45.823	ng		99
14) 1,2-Dichlorobenzene	8.137	146	574205	45.156	ng		99
15) Benzyl Alcohol	8.019	79	482640	45.871	ng		95
16) 2,2'-oxybis(1-Chloropr...	8.307	45	667168	45.986	ng		98
17) 2-Methylphenol	8.231	107	449551	46.583	ng		98
18) Hexachloroethane	8.854	117	228597	47.330	ng		98
19) n-Nitroso-di-n-propyla...	8.584	70	371432	42.346	ng		94
20) 3+4-Methylphenols	8.548	107	606668	45.351	ng		97
22) Acetophenone	8.601	105	788958	47.423	ng	#	98
24) Nitrobenzene	8.972	77	574414	49.009	ng		98
25) Isophorone	9.495	82	1051182	45.292	ng		99
26) 2-Nitrophenol	9.678	139	293717	48.831	ng		99
27) 2,4-Dimethylphenol	9.737	122	479485	46.353	ng		96
28) bis(2-Chloroethoxy)met...	9.966	93	646011	46.047	ng		98
29) 2,4-Dichlorophenol	10.207	162	504018	49.050	ng		97
30) 1,2,4-Trichlorobenzene	10.425	180	519037	46.078	ng		99
31) Naphthalene	10.607	128	1609899	46.690	ng		99
32) Benzoic acid	9.889	122	404729	52.997	ng		96
33) 4-Chloroaniline	10.707	127	382975	25.145	ng		99
34) Hexachlorobutadiene	10.889	225	333721	47.571	ng		97
35) Caprolactam	11.495	113	183400	48.674	ng		95
36) 4-Chloro-3-methylphenol	11.836	107	567653	48.142	ng		98
37) 2-Methylnaphthalene	12.213	142	1019268	45.424	ng		99
38) 1-Methylnaphthalene	12.431	142	1055711	44.241	ng		100
40) 1,2,4,5-Tetrachloroben...	12.589	216	575385	47.117	ng		99
41) Hexachlorocyclopentadiene	12.572	237	715312	96.973	ng		99
43) 2,4,6-Trichlorophenol	12.825	196	409731	49.699	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025521.D
Acq On : 21 Aug 2025 00:35
Operator : CG/JU
Sample : Q2819-17MSD
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
38M-NMSD

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 08/21/2025
Supervised By :Jagrut Upadhyay 08/21/2025

Quant Time: Aug 21 03:06:18 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.895	196	449793	49.780	ng	99
46) 1,1'-Biphenyl	13.225	154	1425183	46.410	ng	99
47) 2-Chloronaphthalene	13.266	162	1113435	46.575	ng	99
48) 2-Nitroaniline	13.477	65	362504	52.041	ng	100
49) Acenaphthylene	14.125	152	1887410	47.713	ng	99
50) Dimethylphthalate	13.860	163	1445275	46.677	ng	99
51) 2,6-Dinitrotoluene	13.966	165	326188	49.982	ng	93
52) Acenaphthene	14.472	154	1078099	46.430	ng	99
53) 3-Nitroaniline	14.301	138	248220	33.806	ng	95
54) 2,4-Dinitrophenol	14.513	184	406122	116.529	ng	98
55) Dibenzofuran	14.813	168	1718002	46.799	ng	99
56) 4-Nitrophenol	14.624	139	631088	104.595	ng	91
57) 2,4-Dinitrotoluene	14.760	165	490004	52.625	ng	96
58) Fluorene	15.472	166	1344141	46.402	ng	99
59) 2,3,4,6-Tetrachlorophenol	15.036	232	402588	50.461	ng	98
60) Diethylphthalate	15.242	149	1569300	49.879	ng	99
61) 4-Chlorophenyl-phenyle...	15.454	204	671793	46.631	ng	96
62) 4-Nitroaniline	15.483	138	377285	50.122	ng	94
63) Azobenzene	15.754	77	1530314	56.805	ng	97
65) 4,6-Dinitro-2-methylph...	15.548	198	283428	51.847	ng	95
66) n-Nitrosodiphenylamine	15.672	169	1251523	46.799	ng	99
67) 4-Bromophenyl-phenylether	16.371	248	448328	46.483	ng	95
68) Hexachlorobenzene	16.489	284	514752	46.040	ng	99
69) Atrazine	16.654	200	493890	49.315	ng	98
70) Pentachlorophenol	16.848	266	733067	103.867	ng	98
71) Phenanthrene	17.242	178	2258400	46.879	ng	100
72) Anthracene	17.330	178	2330282	47.367	ng	99
73) Carbazole	17.613	167	2245579	48.460	ng	99
74) Di-n-butylphthalate	18.213	149	2881804	50.547	ng	100
75) Fluoranthene	19.330	202	2750858	47.871	ng	99
77) Benzidine	19.512	184	1382116	43.896	ng	99
78) Pyrene	19.707	202	2893940	48.260	ng	100
80) Butylbenzylphthalate	20.648	149	1409430	51.861	ng	99
81) Benzo(a)anthracene	21.624	228	2922112	48.025	ng	100
82) 3,3'-Dichlorobenzidine	21.536	252	691173	30.138	ng	99
83) Chrysene	21.689	228	2731566	47.938	ng	98
84) Bis(2-ethylhexyl)phtha...	21.565	149	2049629	51.233	ng	100
85) Di-n-octyl phthalate	22.859	149	3451915	50.164	ng	99
87) Indeno(1,2,3-cd)pyrene	28.847	276	3450790	46.848	ng	93
88) Benzo(b)fluoranthene	23.959	252	2985647	50.411	ng	99
89) Benzo(k)fluoranthene	24.030	252	2788266	47.046	ng	99
90) Benzo(a)pyrene	24.865	252	2759047	47.856	ng	100
91) Dibenzo(a,h)anthracene	28.918	278	2847919	47.312	ng	98
92) Benzo(g,h,i)perylene	30.041	276	2836174m	47.932	ng	

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025521.D
Acq On : 21 Aug 2025 00:35
Operator : CG/JU
Sample : Q2819-17MSD
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 21 03:06:18 2025
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
38M-NMSD

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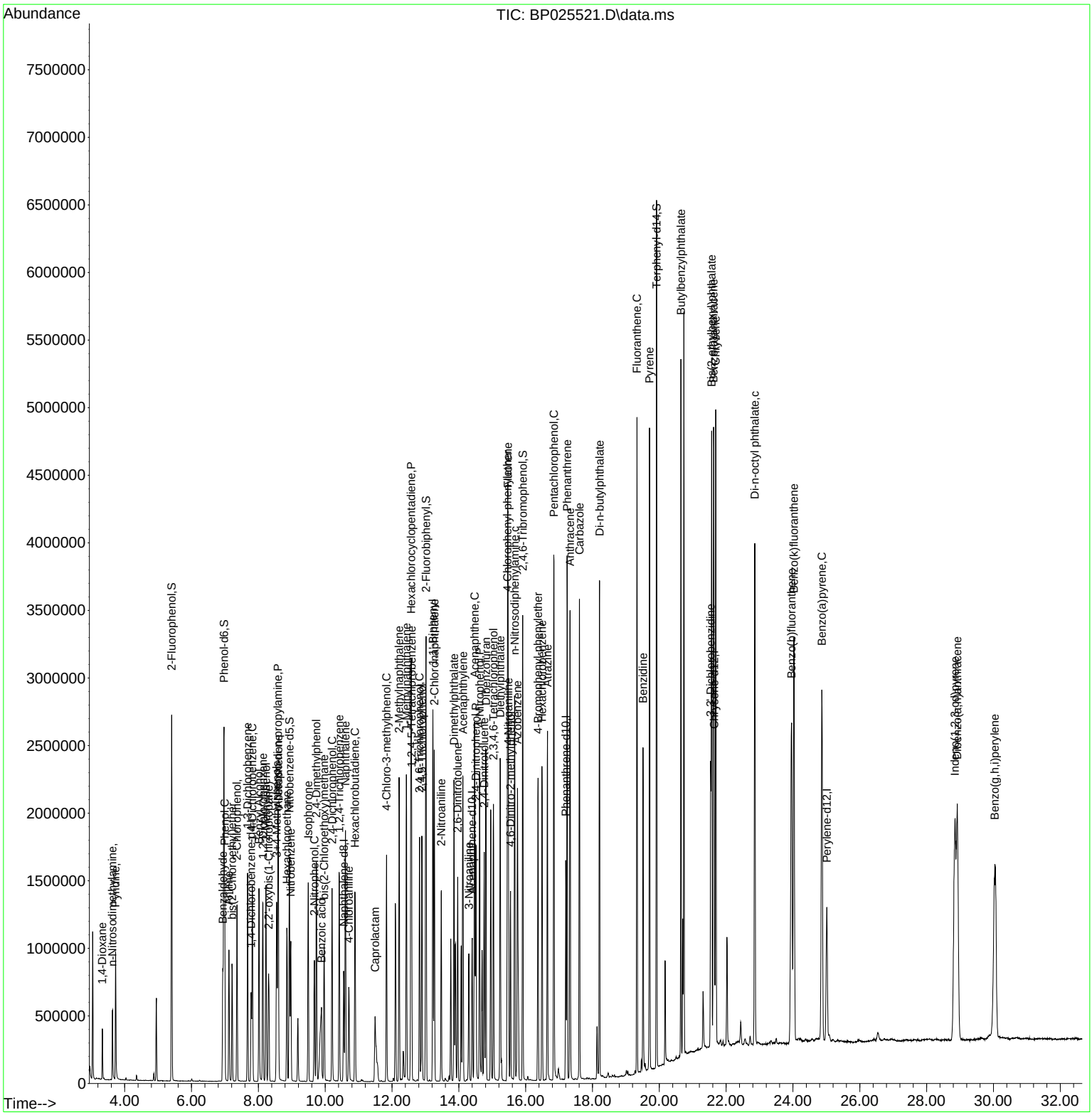
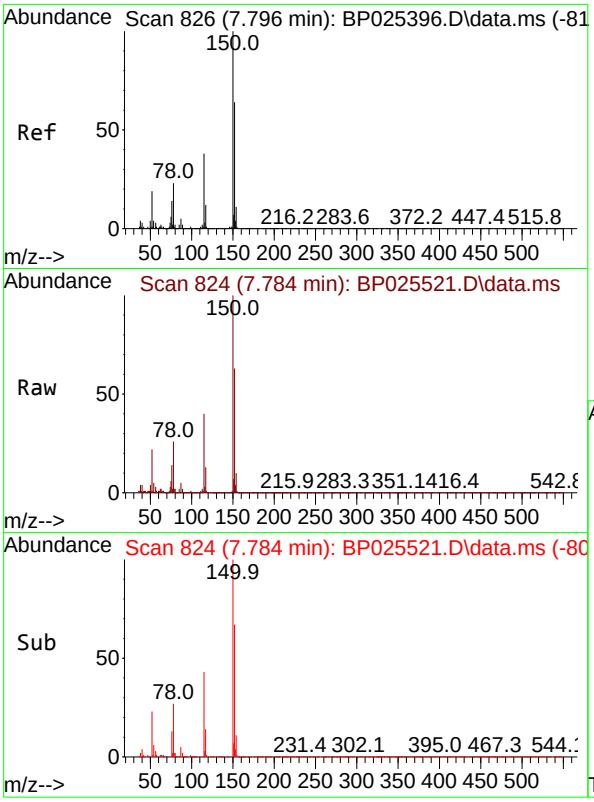
Reviewed By :Rahul Chavli 08/21/2025
Supervised By :Jagrut Upadhyay 08/21/2025

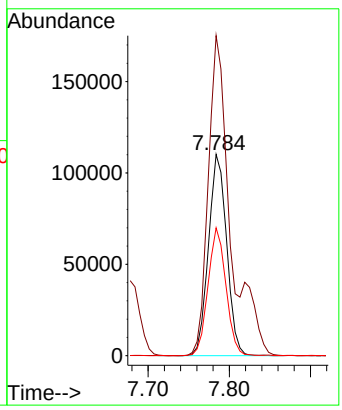




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.784 min Scan# 8
Delta R.T. -0.012 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:152 Resp: 17152

Ion	Ratio	Lower	Upper
152	100		
150	159.0	125.9	188.9
115	63.5	48.5	72.7



Instrument :
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ClientSampleId :
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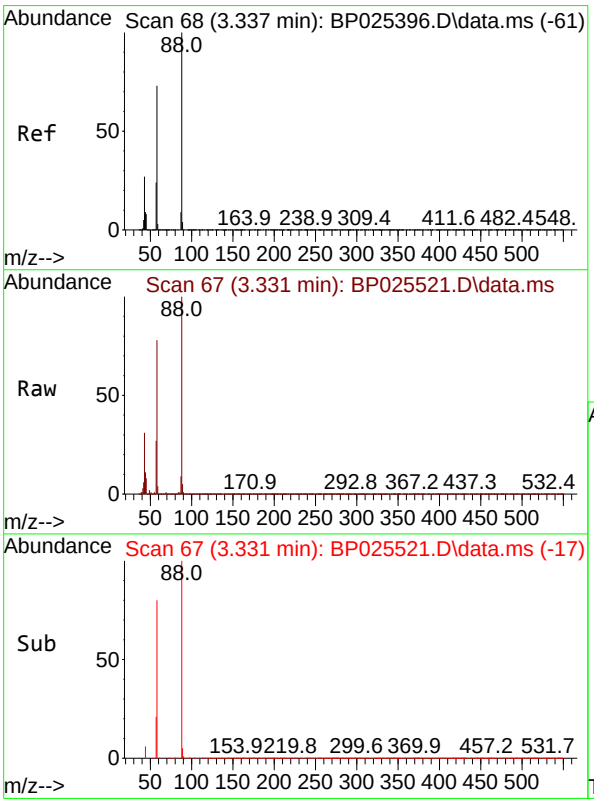
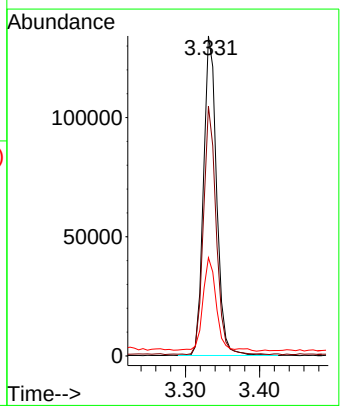
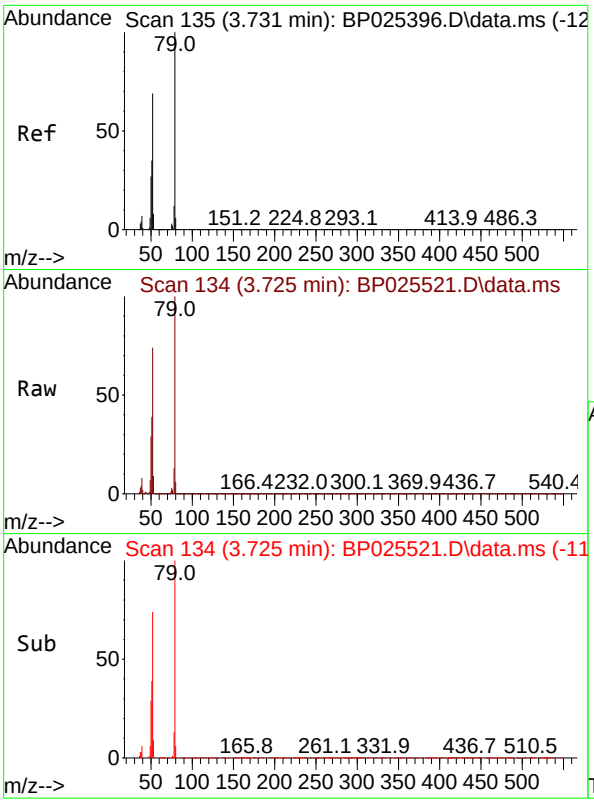


#2
1,4-Dioxane
Concen: 40.917 ng
RT: 3.331 min Scan# 67
Delta R.T. -0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion: 88 Resp: 165537

Ion	Ratio	Lower	Upper
88	100		
58	75.6	59.2	88.8
43	28.2	21.7	32.5

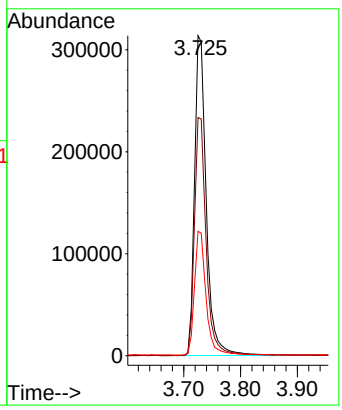




#3
Pyridine
Concen: 40.855 ng
RT: 3.725 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion: 79 Resp: 45240

Ion	Ratio	Lower	Upper
79	100		
52	74.4	55.5	83.3
51	38.9	28.3	42.5



Instrument :
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ClientSampleId :
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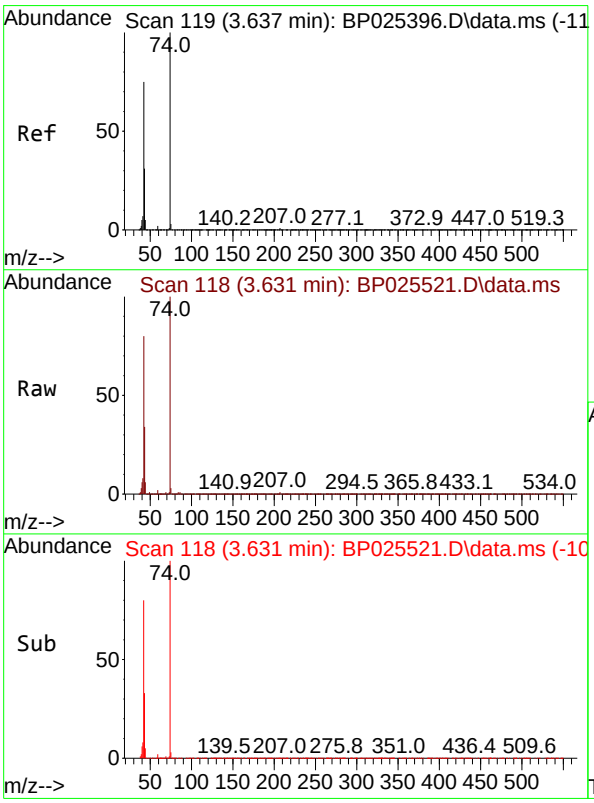
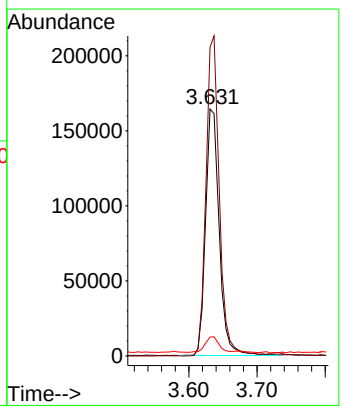
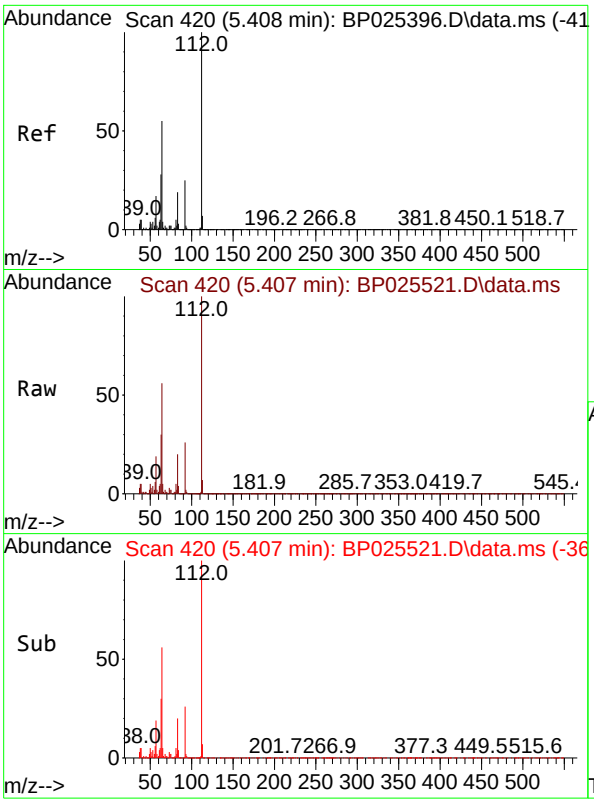


#4
n-Nitrosodimethylamine
Concen: 50.124 ng
RT: 3.631 min Scan# 118
Delta R.T. -0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion: 42 Resp: 228829

Ion	Ratio	Lower	Upper
42	100		
74	125.0	107.0	160.4
44	7.6	6.2	9.4

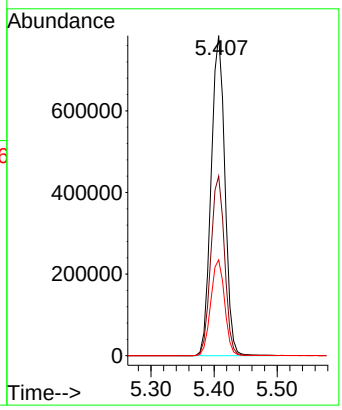




#5
2-Fluorophenol
Concen: 114.824 ng
RT: 5.407 min Scan# 4
Delta R.T. -0.000 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:112 Resp: 118597

Ion	Ratio	Lower	Upper
112	100		
64	56.1	43.8	65.8
63	29.9	22.7	34.1



Instrument :
BNA_P
ClientSampleId :
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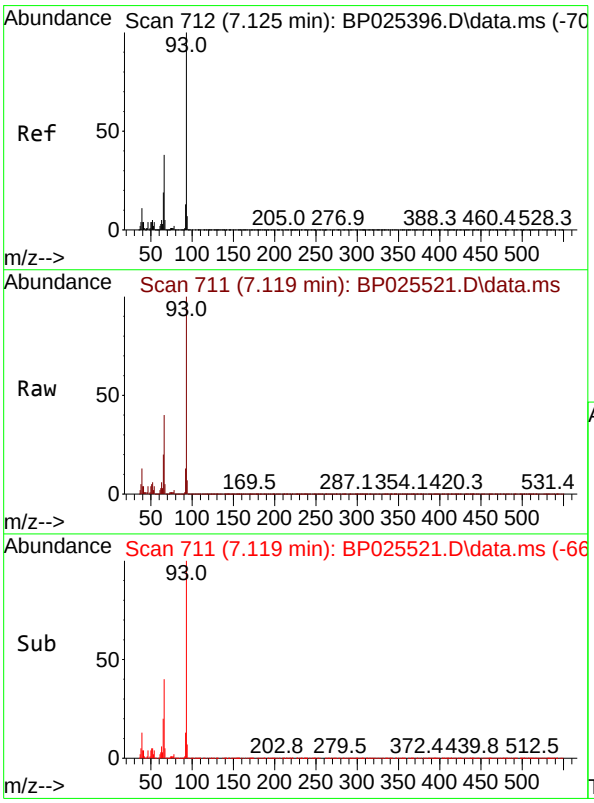
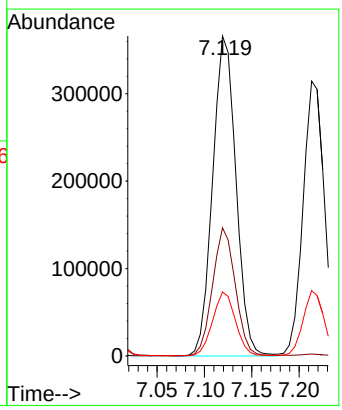
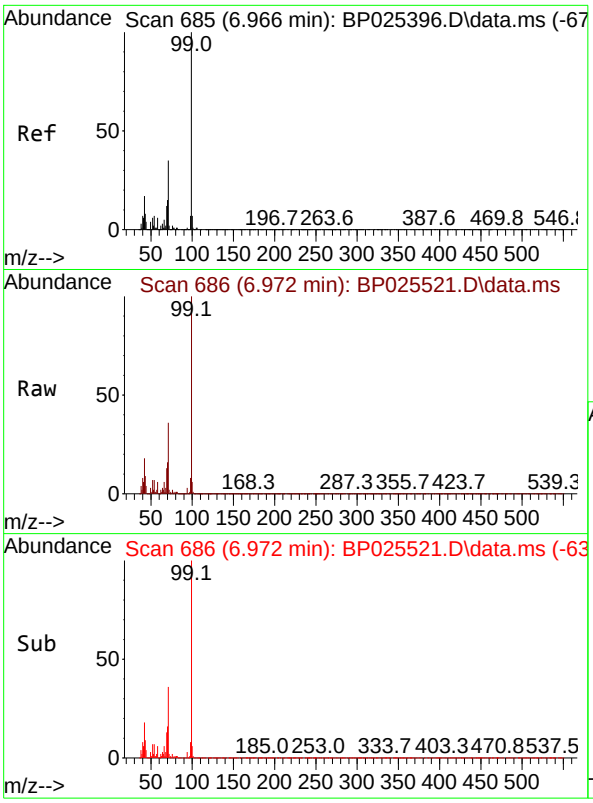


#6
Aniline
Concen: 35.149 ng
RT: 7.119 min Scan# 711
Delta R.T. -0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion: 93 Resp: 627117

Ion	Ratio	Lower	Upper
93	100		
66	40.1	30.4	45.6
65	20.0	15.3	22.9

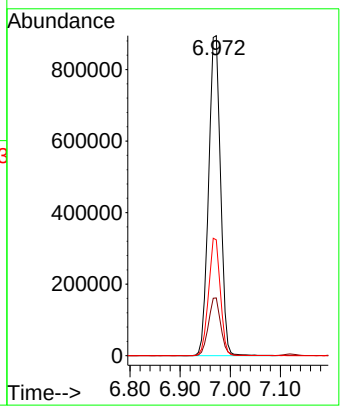




#7
Phenol-d6
Concen: 111.749 ng
RT: 6.972 min Scan# 6
Delta R.T. 0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion: 99 Resp: 147980

Ion	Ratio	Lower	Upper
99	100		
42	18.1	13.7	20.5
71	36.2	28.2	42.4



Instrument :
BNA_P
ClientSampleId :
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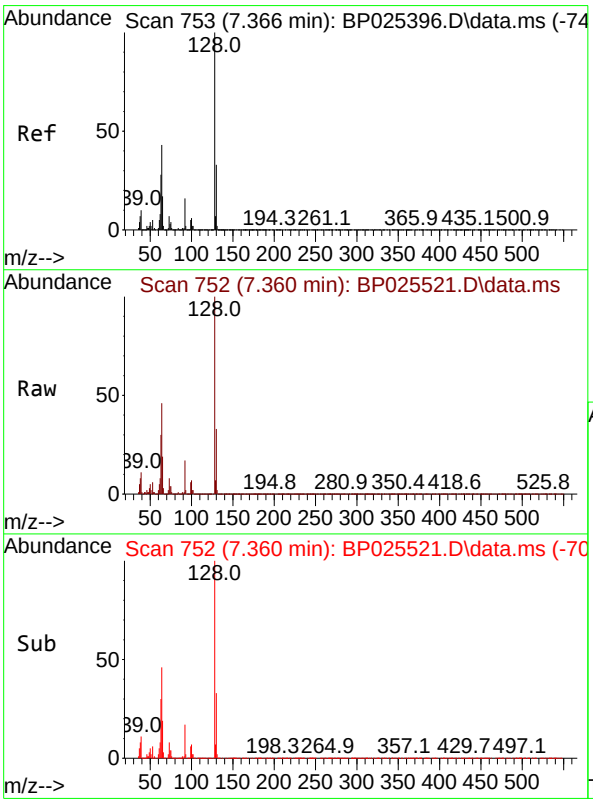
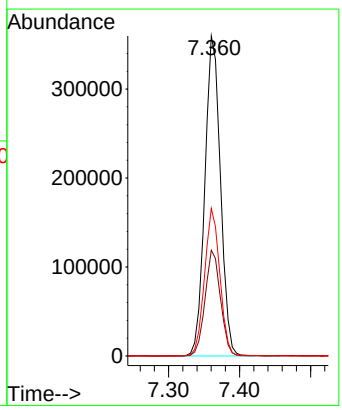
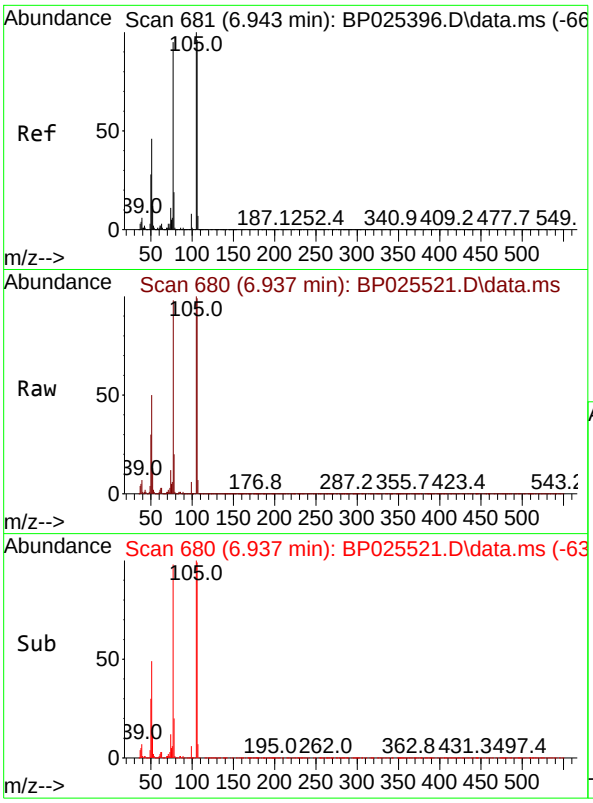


#8
2-Chlorophenol
Concen: 47.160 ng
RT: 7.360 min Scan# 752
Delta R.T. -0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:128 Resp: 549667

Ion	Ratio	Lower	Upper
128	100		
130	33.0	12.6	52.6
64	46.1	23.4	63.4

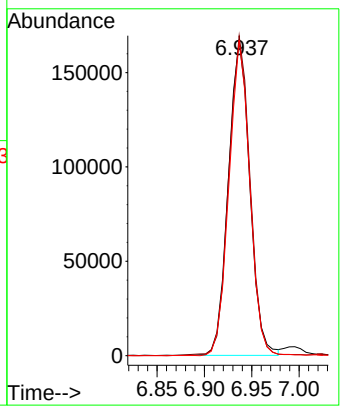




#9
Benzaldehyde
Concen: 28.328 ng
RT: 6.937 min Scan# 6
Delta R.T. -0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion: 77 Resp: 26281

Ion	Ratio	Lower	Upper
77	100		
105	101.8	84.8	124.8
106	100.4	80.5	120.5



Instrument :
BNA_P
ClientSampleId :
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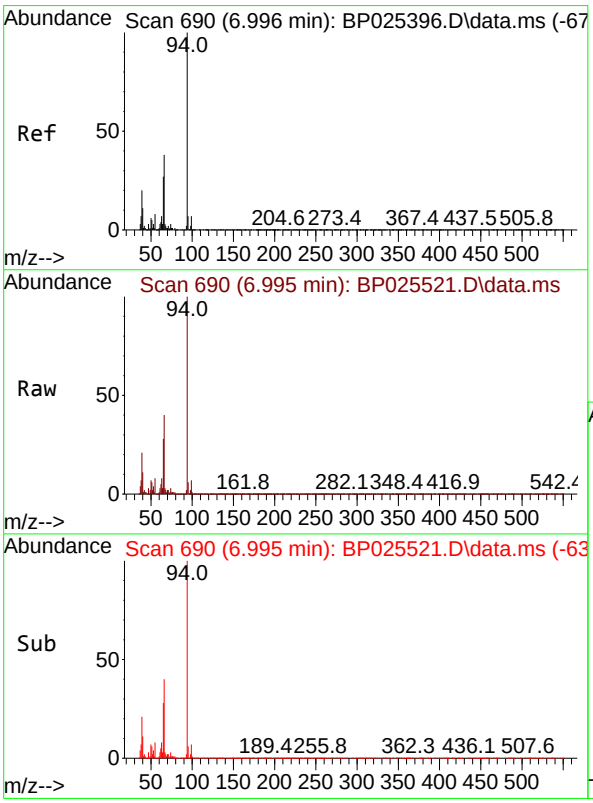
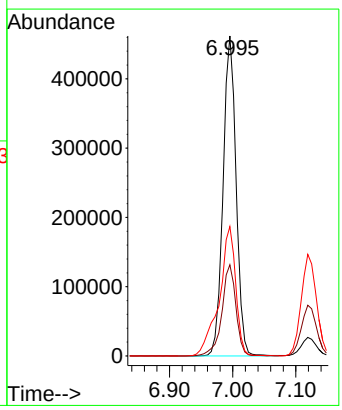
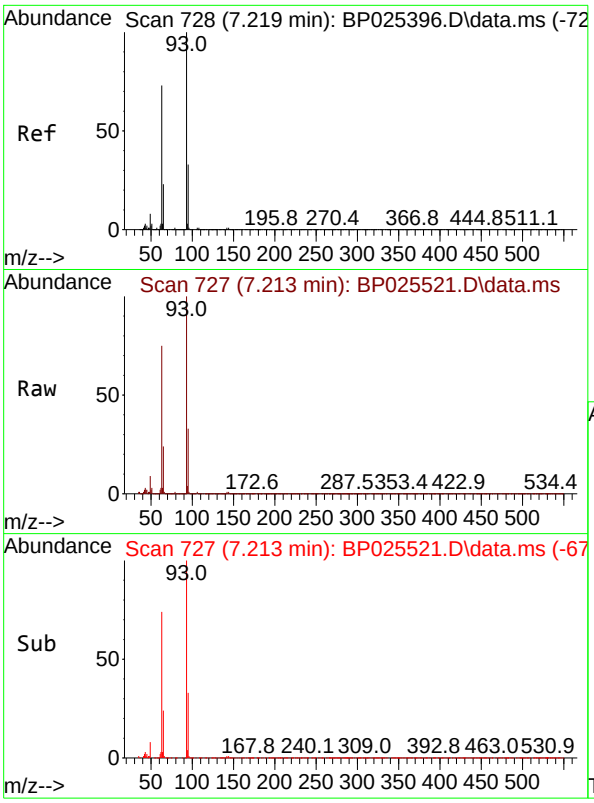


#10
Phenol
Concen: 47.714 ng
RT: 6.995 min Scan# 690
Delta R.T. -0.000 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion: 94 Resp: 662998

Ion	Ratio	Lower	Upper
94	100		
65	28.5	6.8	46.8
66	40.4	18.2	58.2

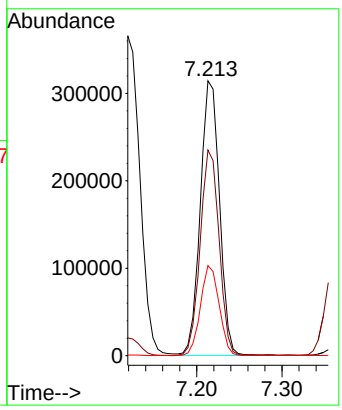




#11
bis(2-Chloroethyl)ether
Concen: 45.488 ng
RT: 7.213 min Scan# 7
Delta R.T. -0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion: 93 Resp: 49264

Ion	Ratio	Lower	Upper
93	100		
63	74.8	52.6	92.6
95	32.8	12.7	52.7



Instrument :
BNA_P
ClientSampleId :
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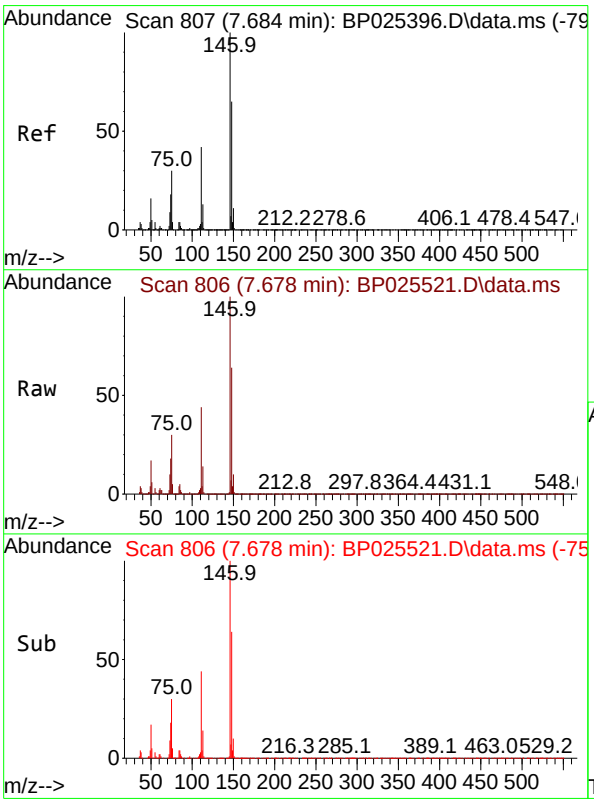
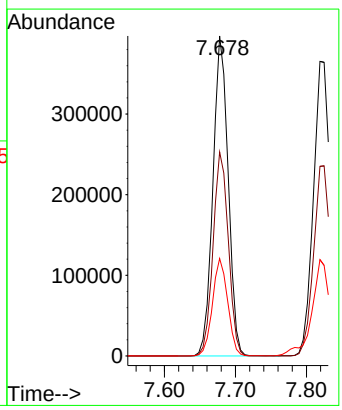
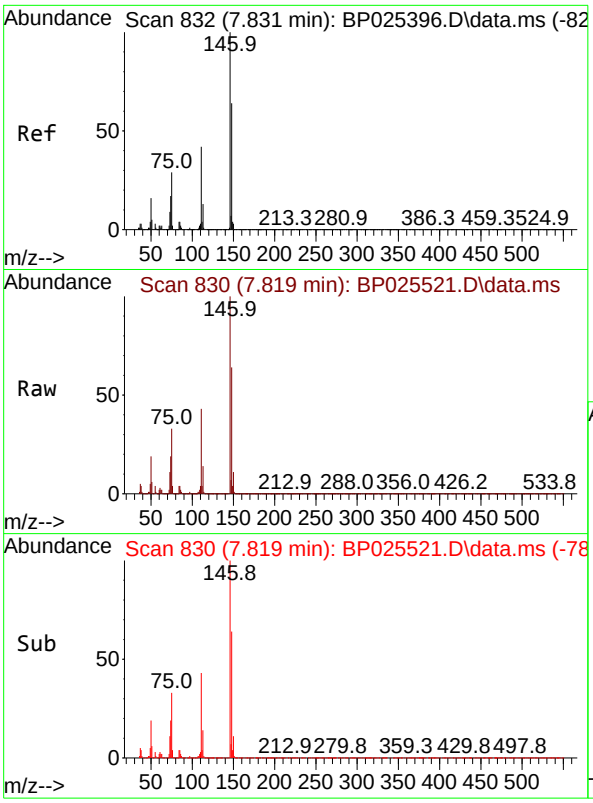


#12
1,3-Dichlorobenzene
Concen: 45.833 ng
RT: 7.678 min Scan# 806
Delta R.T. -0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:146 Resp: 589038

Ion	Ratio	Lower	Upper
146	100		
148	63.7	51.9	77.9
75	30.5	23.7	35.5

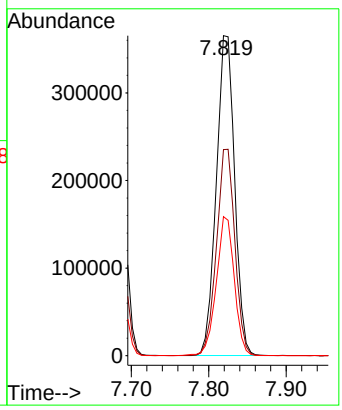




#13
1,4-Dichlorobenzene
Concen: 45.823 ng
RT: 7.819 min Scan# 8
Delta R.T. -0.012 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:146 Resp: 60193

Ion	Ratio	Lower	Upper
146	100		
148	64.4	51.6	77.4
111	43.5	33.4	50.0



Instrument :
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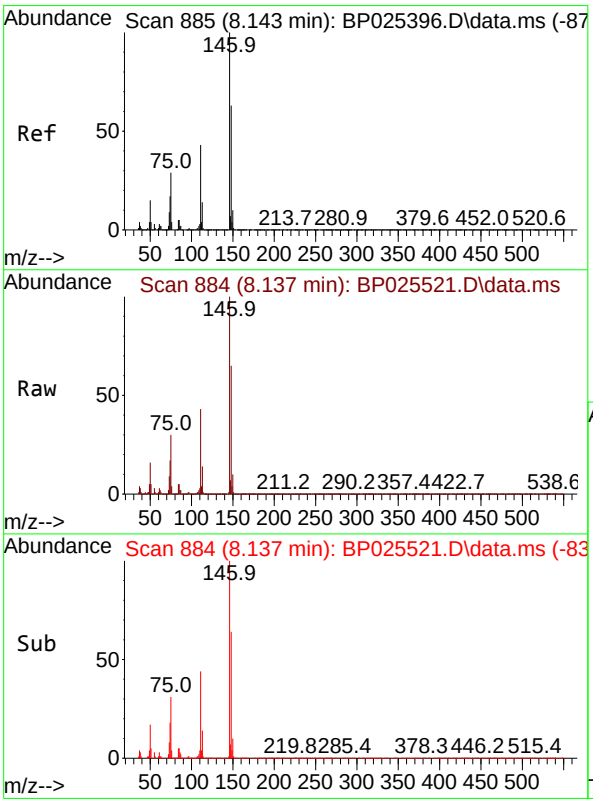
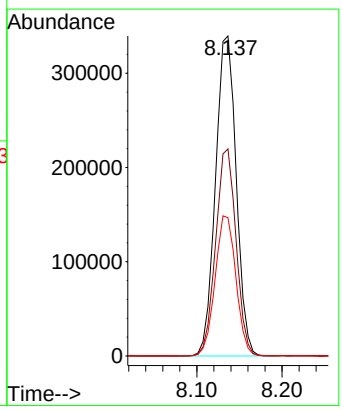
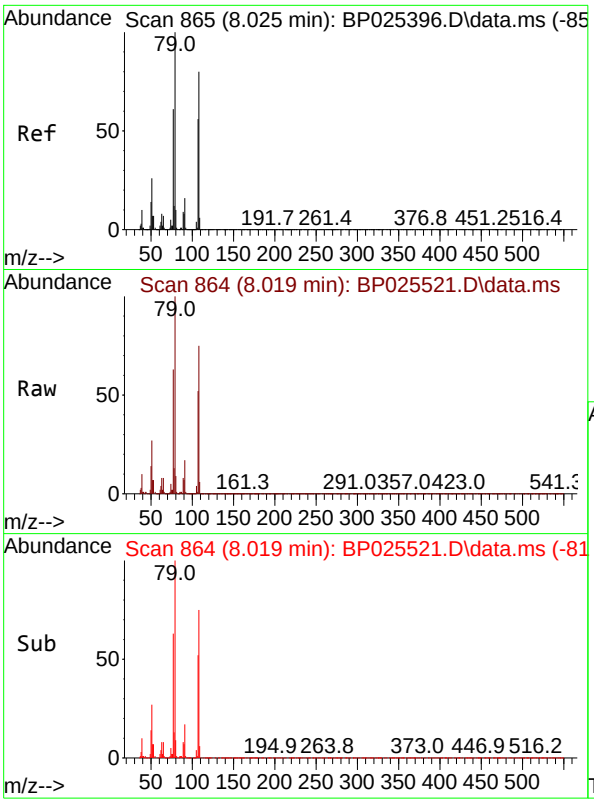


#14
1,2-Dichlorobenzene
Concen: 45.156 ng
RT: 8.137 min Scan# 884
Delta R.T. -0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:146 Resp: 574205

Ion	Ratio	Lower	Upper
146	100		
148	64.7	50.4	75.6
111	43.2	34.5	51.7





#15
Benzyl Alcohol
Concen: 45.871 ng
RT: 8.019 min Scan# 8
Delta R.T. -0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion: 79 Resp: 48264

Ion	Ratio	Lower	Upper
79	100		
108	74.7	63.8	95.6
77	63.5	49.0	73.4

Instrument :
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ClientSampleId :
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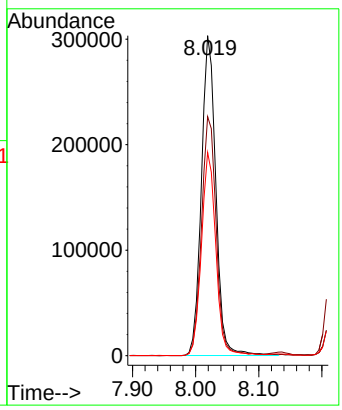
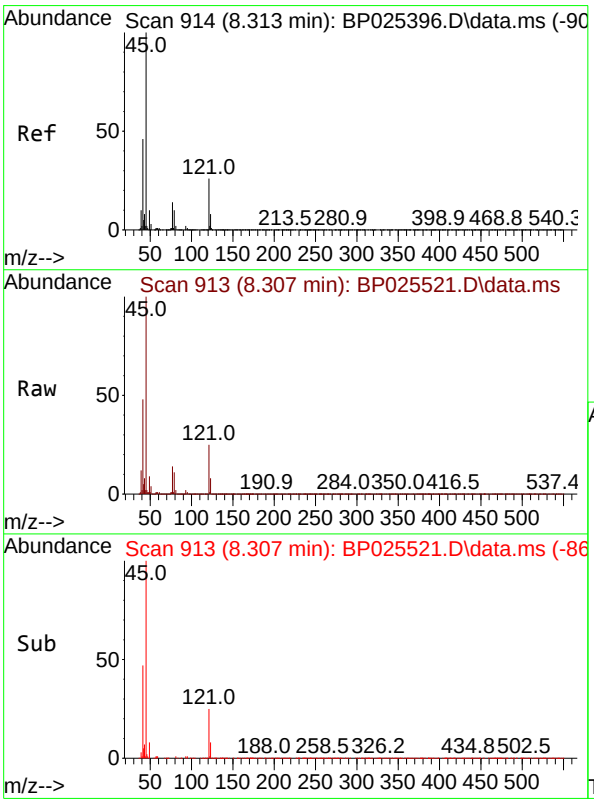
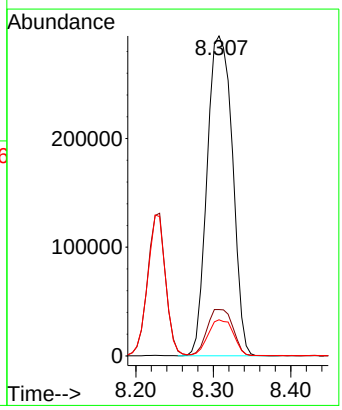


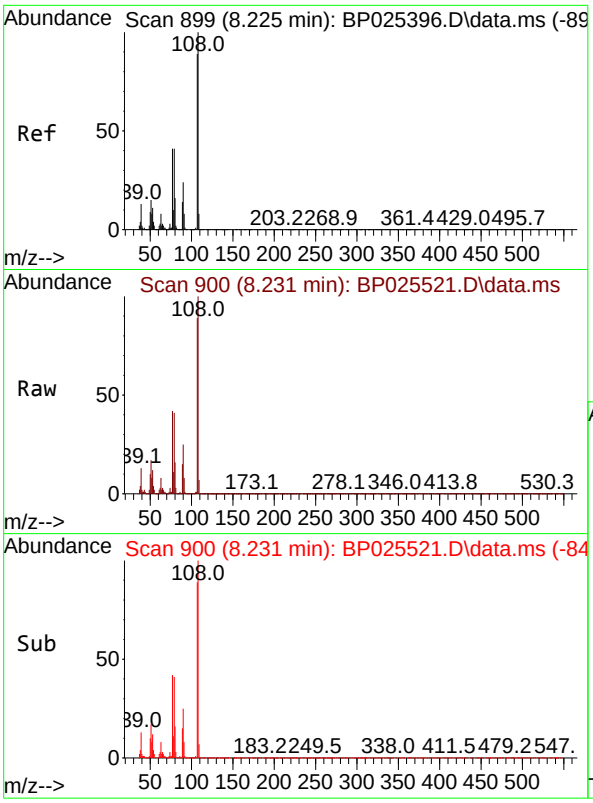


#16
2,2'-oxybis(1-Chloropropane)
Concen: 45.986 ng
RT: 8.307 min Scan# 913
Delta R.T. -0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion: 45 Resp: 667168

Ion	Ratio	Lower	Upper
45	100		
77	14.5	0.0	35.3
79	11.3	0.0	31.8

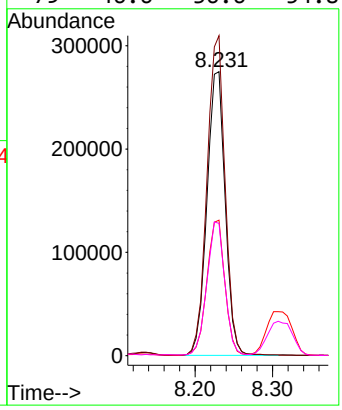




#17
2-Methylphenol
Concen: 46.583 ng
RT: 8.231 min Scan# 9
Delta R.T. 0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:107 Resp: 44955

Ion	Ratio	Lower	Upper
107	100		
108	112.7	89.4	134.0
77	47.7	36.3	54.5
79	46.6	36.6	54.8



Instrument :
BNA_P
ClientSampleId :
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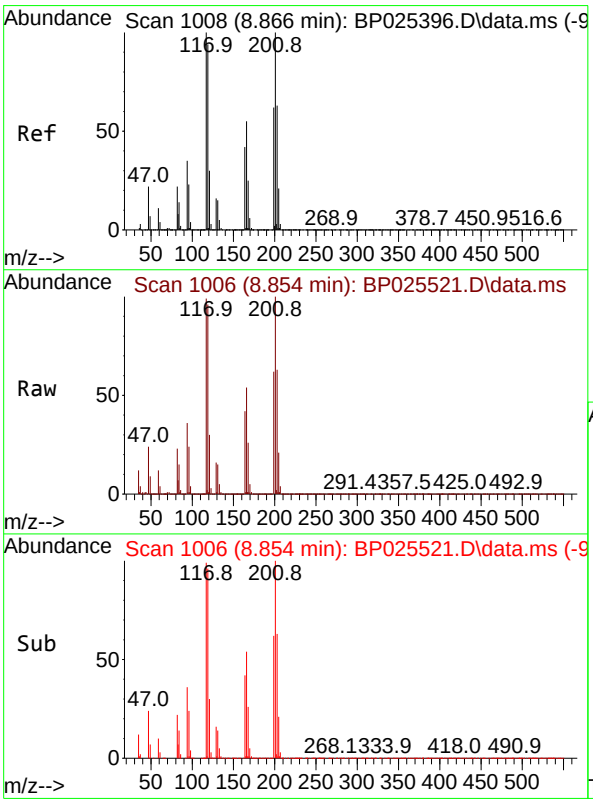
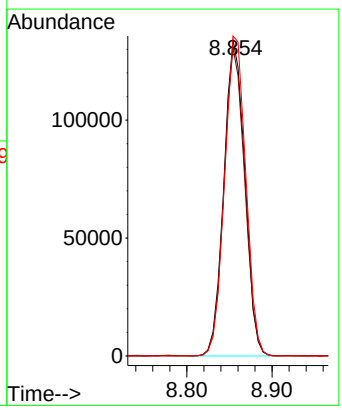
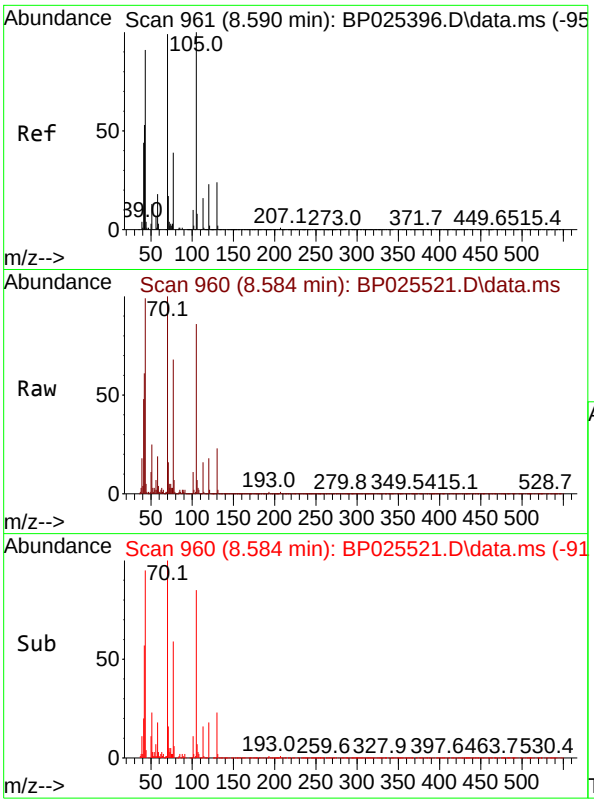


#18
Hexachloroethane
Concen: 47.330 ng
RT: 8.854 min Scan# 1006
Delta R.T. -0.012 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:117 Resp: 228597

Ion	Ratio	Lower	Upper
117	100		
119	97.5	75.1	112.7
201	101.4	80.1	120.1

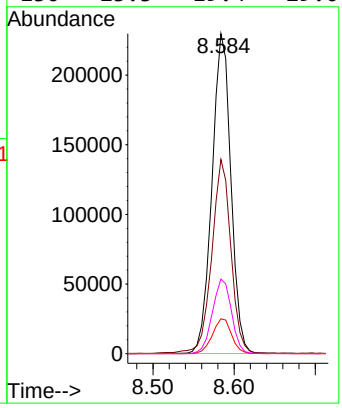




#19
n-Nitroso-di-n-propylamine
Concen: 42.346 ng
RT: 8.584 min Scan# 9
Delta R.T. -0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion: 70 Resp: 37143

Ion	Ratio	Lower	Upper
70	100		
42	60.7	43.8	65.6
101	10.9	8.5	12.7
130	23.3	19.4	29.0



Instrument :
BNA_P
ClientSampleId :
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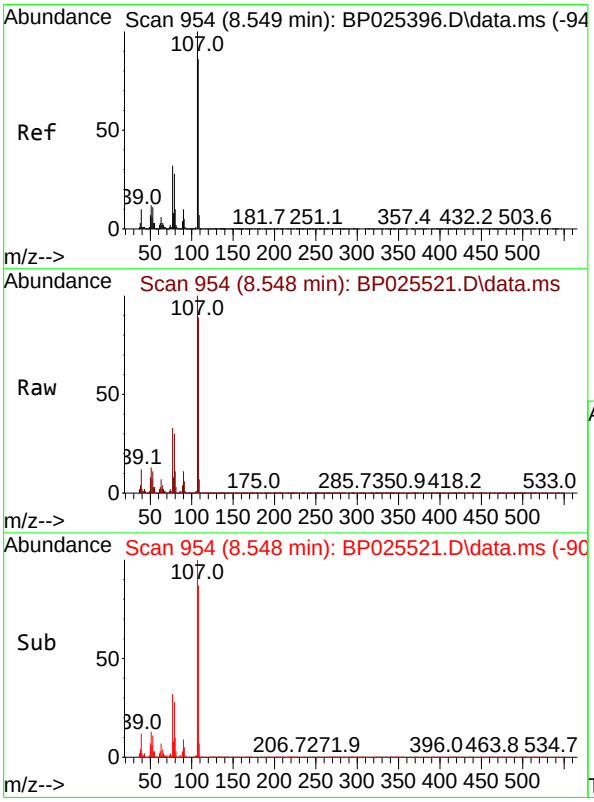
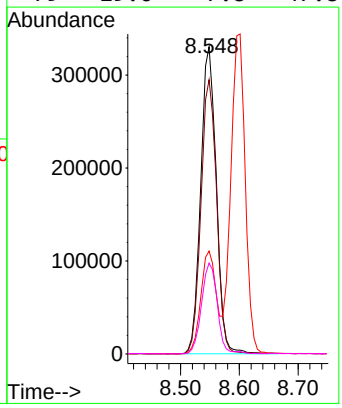
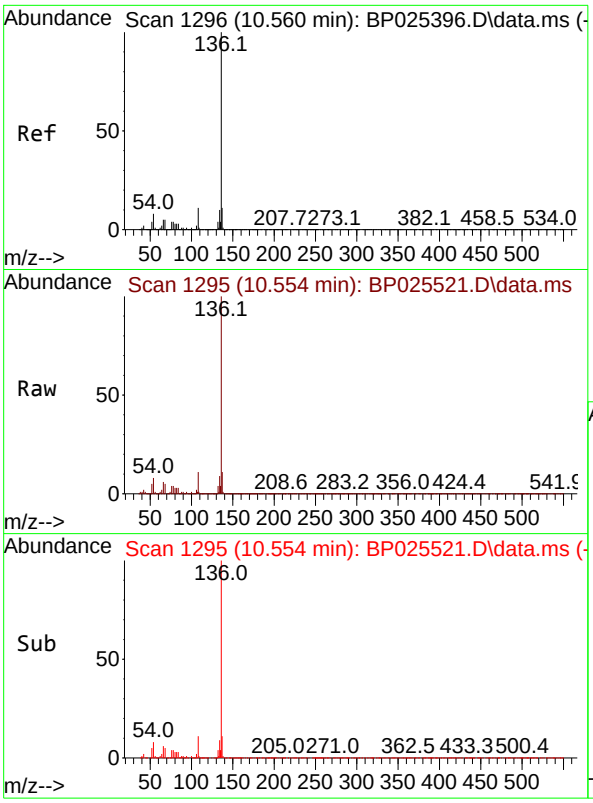


#20
3+4-Methylphenols
Concen: 45.351 ng
RT: 8.548 min Scan# 954
Delta R.T. -0.000 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:107 Resp: 606668

Ion	Ratio	Lower	Upper
107	100		
108	89.3	66.3	106.3
77	33.5	12.3	52.3
79	29.6	7.8	47.8

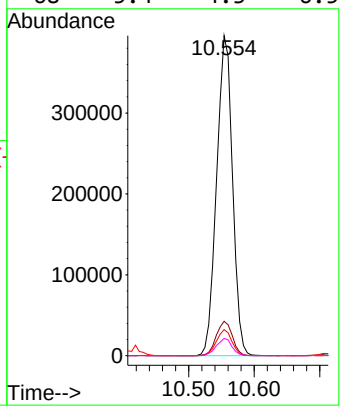




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.554 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:136 Resp: 66339

Ion	Ratio	Lower	Upper
136	100		
137	10.8	9.2	13.8
54	8.2	6.0	9.0
68	5.4	4.3	6.5



Instrument :
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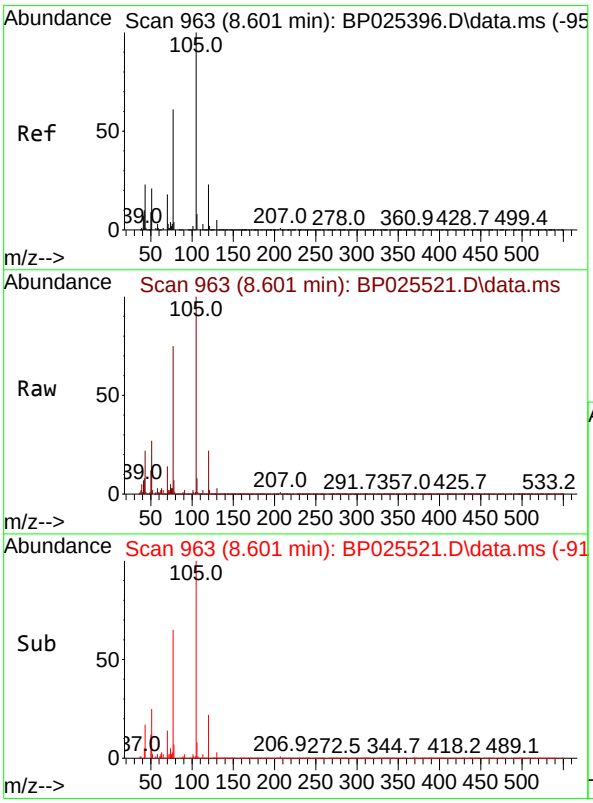
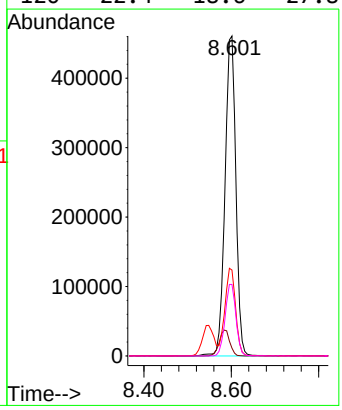
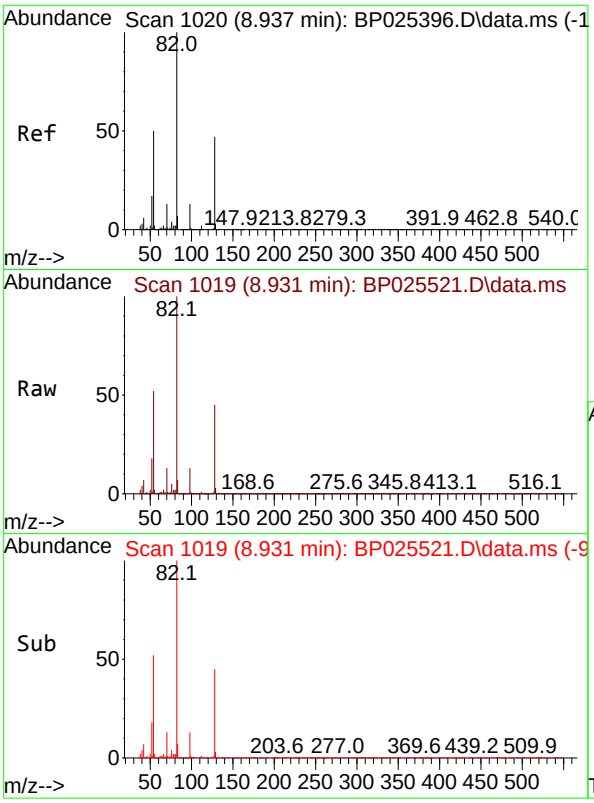


#22
Acetophenone
Concen: 47.423 ng
RT: 8.601 min Scan# 963
Delta R.T. -0.000 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:105 Resp: 788958

Ion	Ratio	Lower	Upper
105	100		
71	2.5	2.6	4.0#
51	26.8	20.6	30.8
120	22.4	18.6	27.8

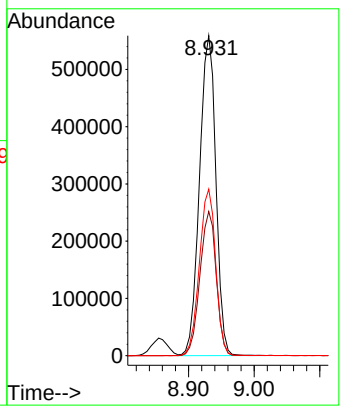




#23
Nitrobenzene-d5
Concen: 74.076 ng
RT: 8.931 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion: 82 Resp: 97145

Ion	Ratio	Lower	Upper
82	100		
128	45.0	37.7	56.5
54	52.0	39.8	59.6



Instrument :
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ClientSampleId :
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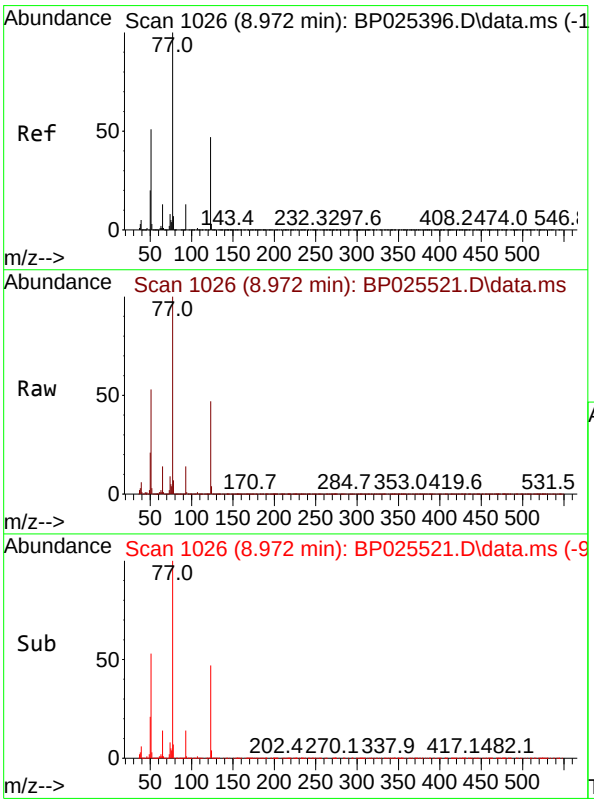
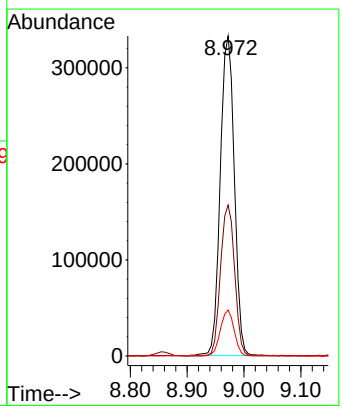
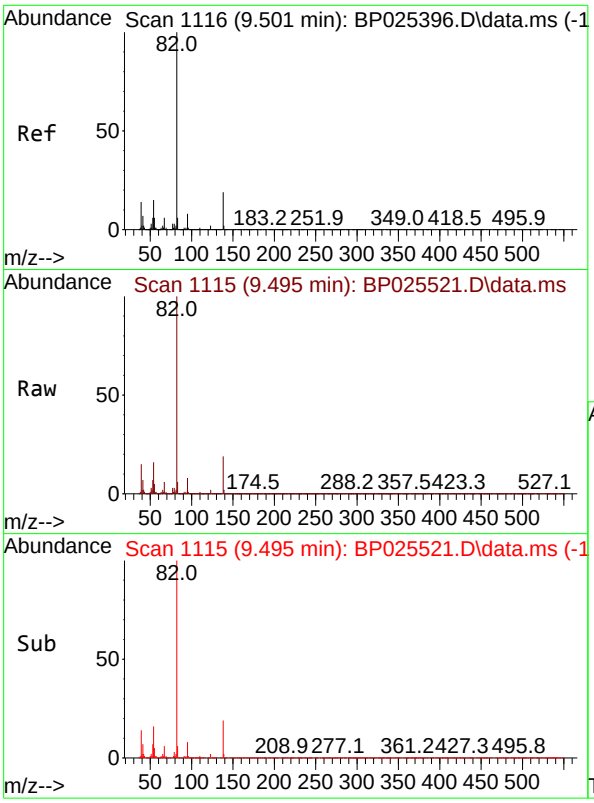


#24
Nitrobenzene
Concen: 49.009 ng
RT: 8.972 min Scan# 1026
Delta R.T. -0.000 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion: 77 Resp: 574414

Ion	Ratio	Lower	Upper
77	100		
123	47.2	38.6	58.0
65	14.4	10.6	15.8

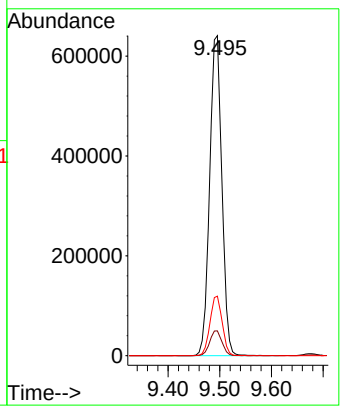




#25
Isophorone
Concen: 45.292 ng
RT: 9.495 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion: 82 Resp: 105118

Ion	Ratio	Lower	Upper
82	100		
95	7.8	6.4	9.6
138	18.6	15.4	23.0



Instrument :
BNA_P
ClientSampleId :
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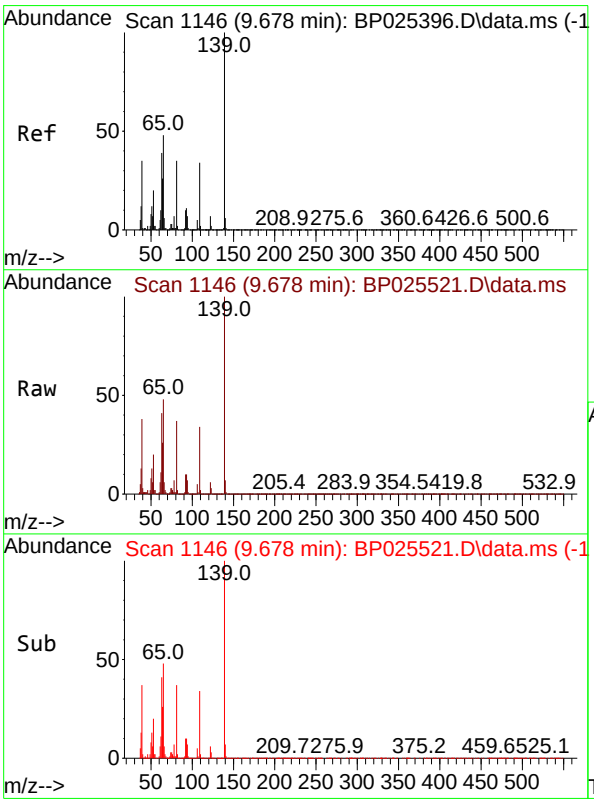
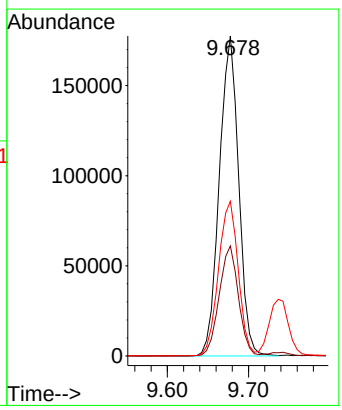
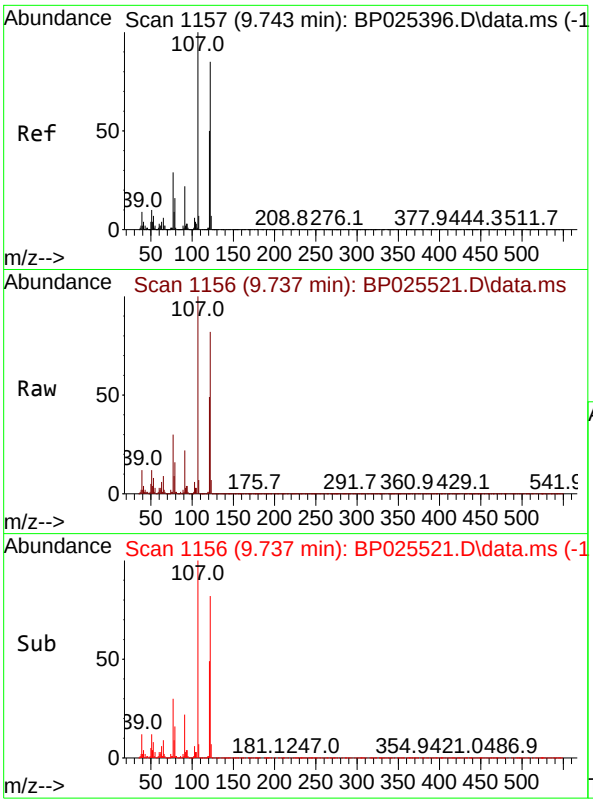


#26
2-Nitrophenol
Concen: 48.831 ng
RT: 9.678 min Scan# 1146
Delta R.T. -0.000 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:139 Resp: 293717

Ion	Ratio	Lower	Upper
139	100		
109	34.4	26.9	40.3
65	48.3	38.3	57.5

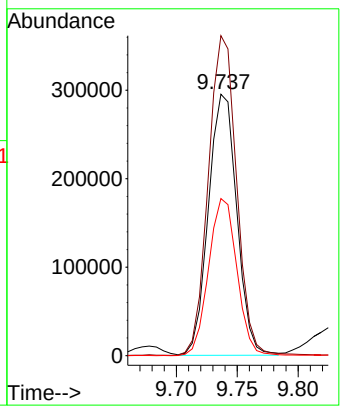




#27
2,4-Dimethylphenol
Concen: 46.353 ng
RT: 9.737 min Scan# 11
Delta R.T. -0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:122 Resp: 47948

Ion	Ratio	Lower	Upper
122	100		
107	122.4	93.7	140.5
121	60.1	46.6	69.8



Instrument :
BNA_P
ClientSampleId :
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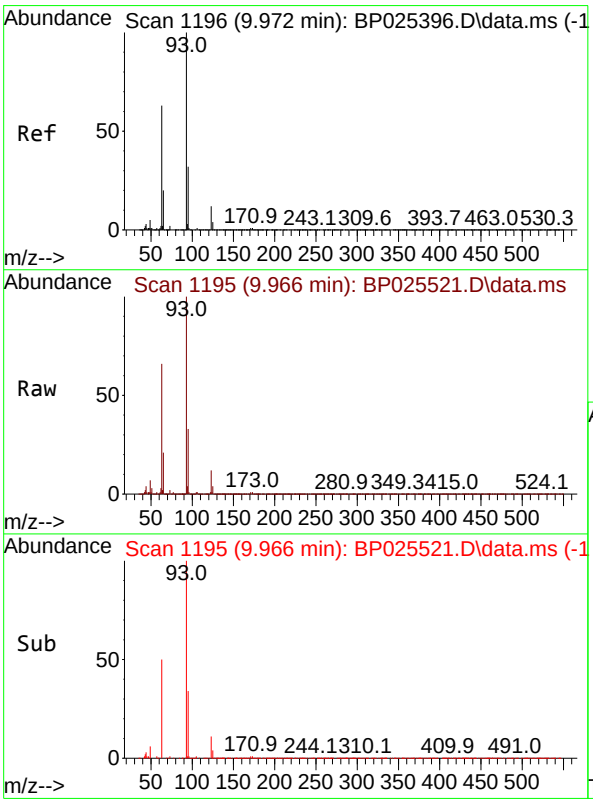
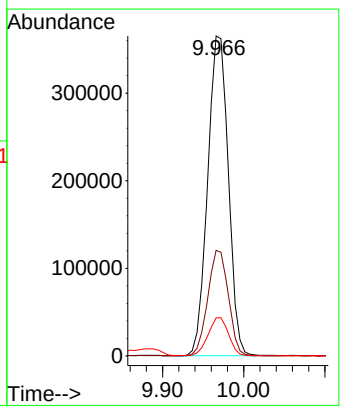
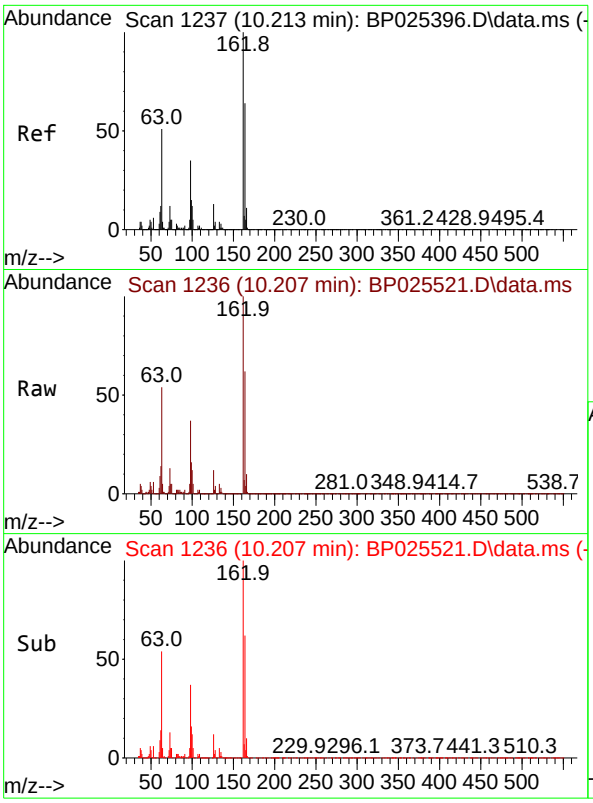


#28
bis(2-Chloroethoxy)methane
Concen: 46.047 ng
RT: 9.966 min Scan# 1195
Delta R.T. -0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion: 93 Resp: 646011

Ion	Ratio	Lower	Upper
93	100		
95	33.0	25.4	38.0
123	11.9	9.4	14.0

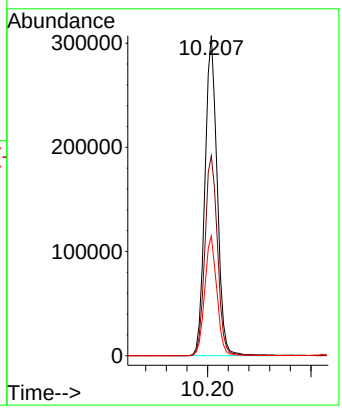




#29
2,4-Dichlorophenol
Concen: 49.050 ng
RT: 10.207 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:162 Resp: 50401

Ion	Ratio	Lower	Upper
162	100		
164	62.4	44.4	84.4
98	37.4	14.9	54.9



Instrument :
BNA_P
ClientSampleId :
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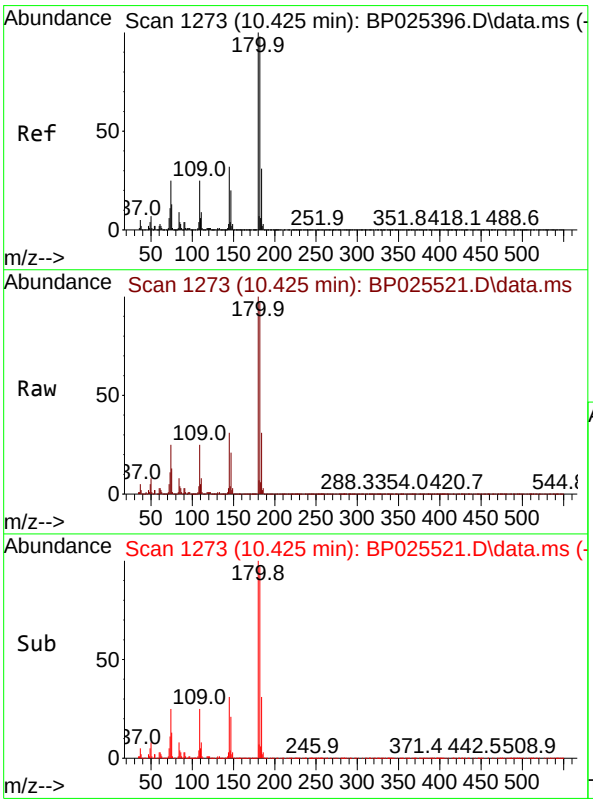
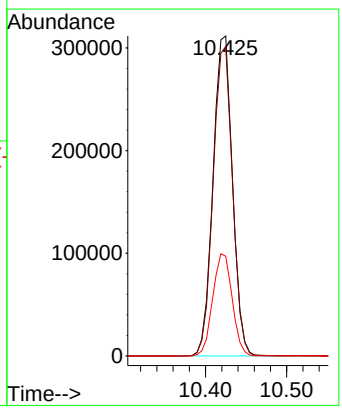
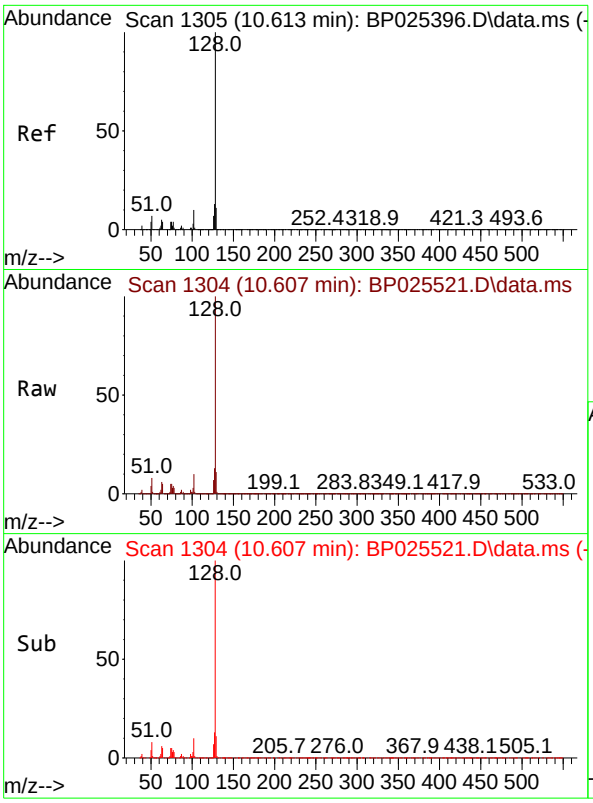


#30
1,2,4-Trichlorobenzene
Concen: 46.078 ng
RT: 10.425 min Scan# 1273
Delta R.T. -0.000 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:180 Resp: 519037

Ion	Ratio	Lower	Upper
180	100		
182	96.6	78.0	117.0
145	31.1	25.9	38.9

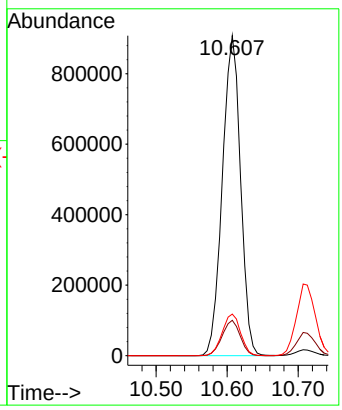




#31
Naphthalene
Concen: 46.690 ng
RT: 10.607 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:128 Resp: 160989

Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.6	13.0
127	13.0	10.7	16.1



Instrument :
BNA_P
ClientSampleId :
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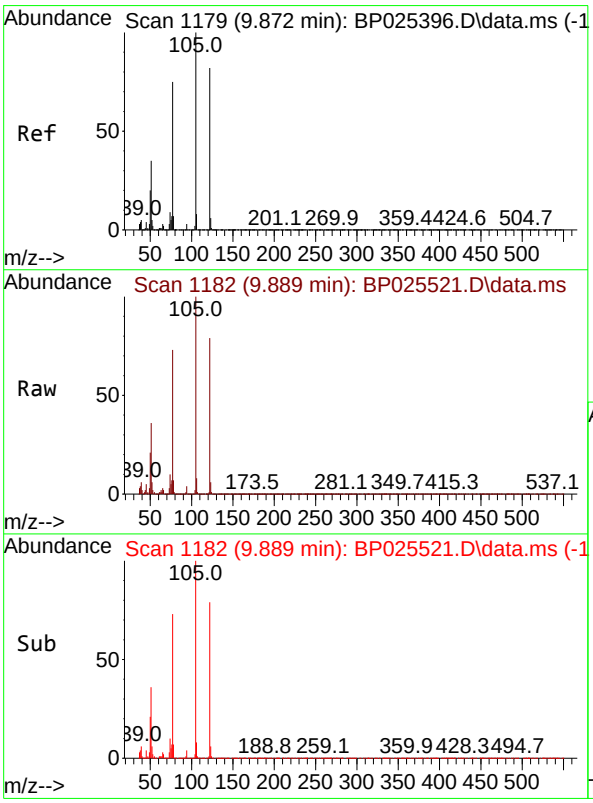
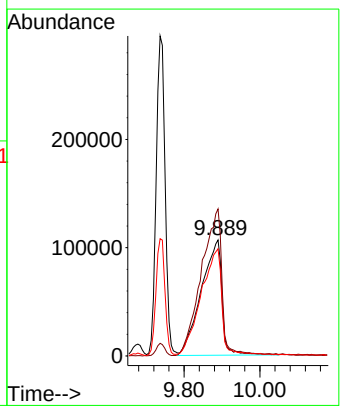
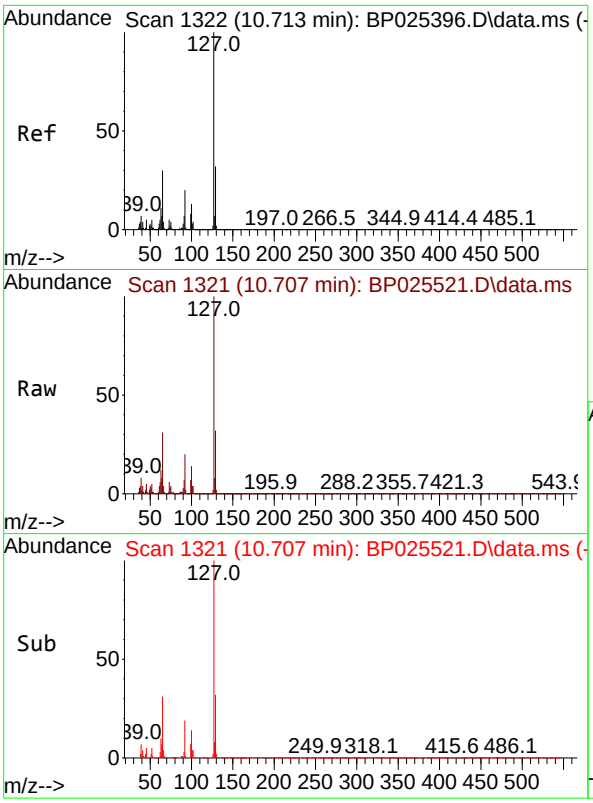


#32
Benzoic acid
Concen: 52.997 ng
RT: 9.889 min Scan# 1182
Delta R.T. 0.017 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:122 Resp: 404729

Ion	Ratio	Lower	Upper
122	100		
105	126.8	100.6	140.6
77	92.4	71.5	111.5

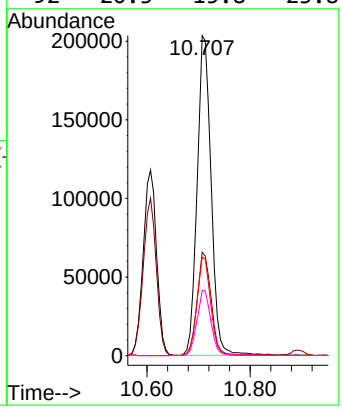




#33
4-Chloroaniline
Concen: 25.145 ng
RT: 10.707 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:127 Resp: 38297

Ion	Ratio	Lower	Upper
127	100		
129	32.3	25.4	38.2
65	30.7	23.8	35.6
92	20.3	15.8	23.8



Instrument :
BNA_P
ClientSampleId :
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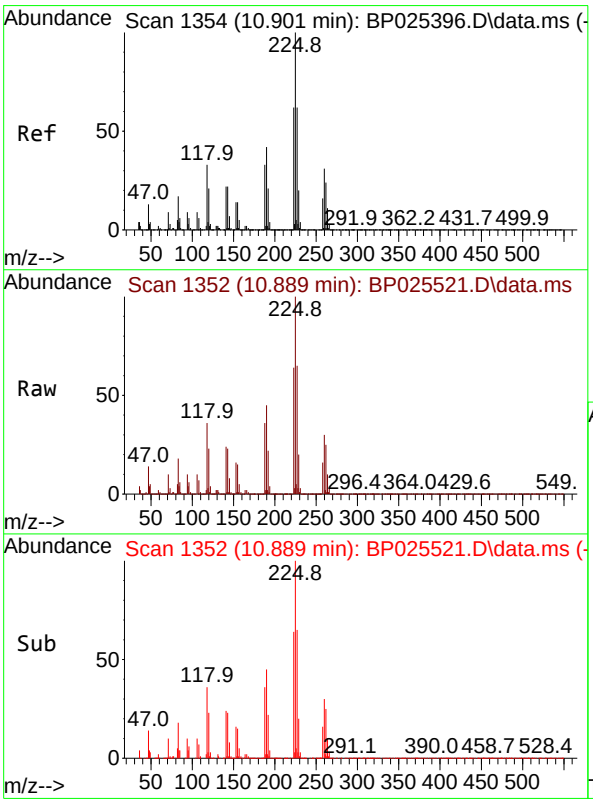
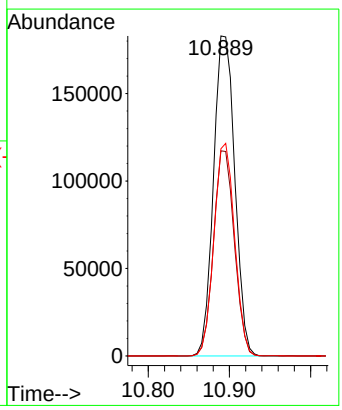
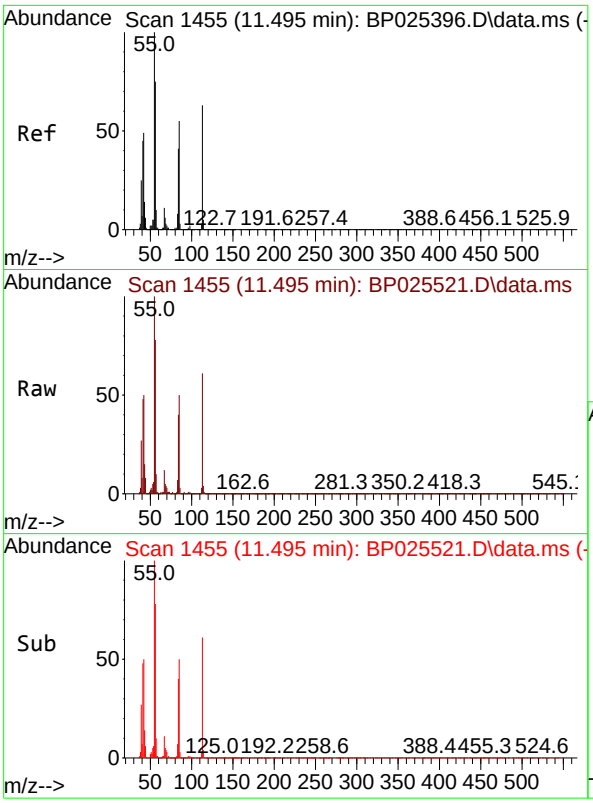


#34
Hexachlorobutadiene
Concen: 47.571 ng
RT: 10.889 min Scan# 1352
Delta R.T. -0.012 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:225 Resp: 333721

Ion	Ratio	Lower	Upper
225	100		
223	64.1	50.0	75.0
227	64.7	49.7	74.5

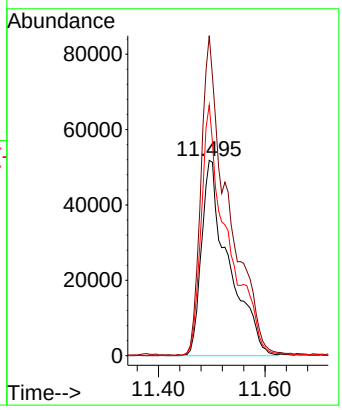




#35
Caprolactam
Concen: 48.674 ng
RT: 11.495 min Scan# 14
Delta R.T. -0.000 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:113 Resp: 18340

Ion	Ratio	Lower	Upper
113	100		
55	163.9	140.0	180.0
56	128.4	100.0	140.0



Instrument :
BNA_P
ClientSampleId :
38M-NMSD

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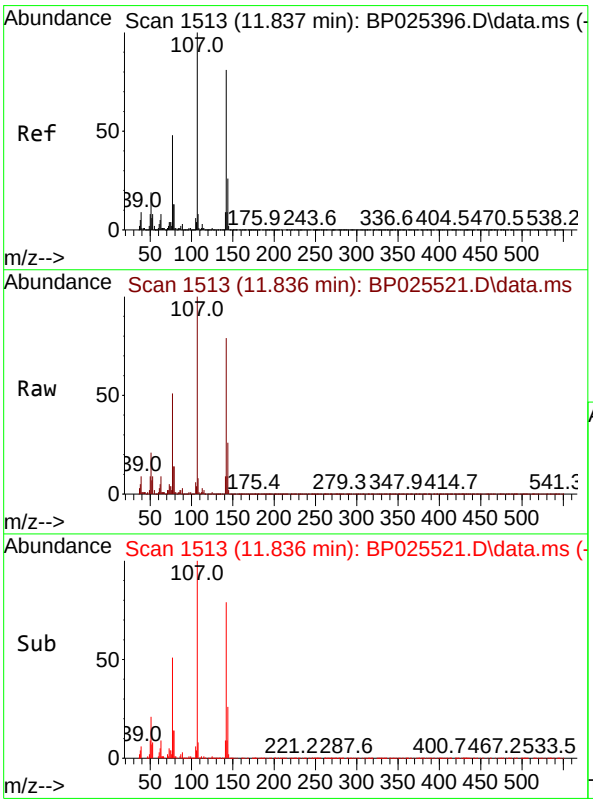
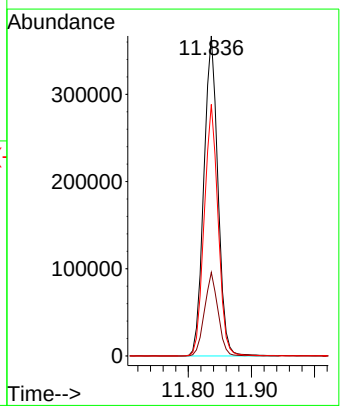
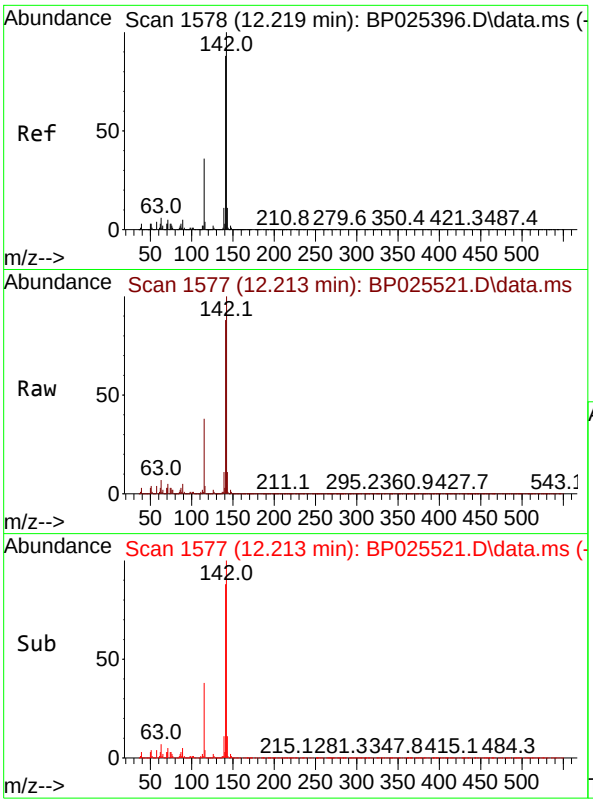


#36
4-Chloro-3-methylphenol
Concen: 48.142 ng
RT: 11.836 min Scan# 1513
Delta R.T. -0.000 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:107 Resp: 567653

Ion	Ratio	Lower	Upper
107	100		
144	26.1	21.0	31.4
142	78.6	64.6	97.0

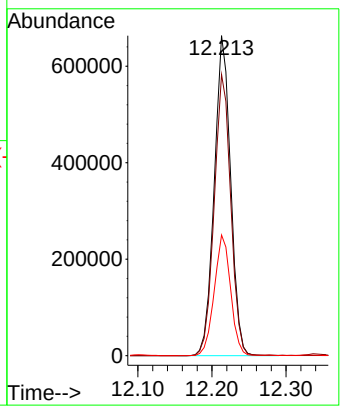




#37
2-Methylnaphthalene
Concen: 45.424 ng
RT: 12.213 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:142 Resp: 101926

Ion	Ratio	Lower	Upper
142	100		
141	87.9	70.3	105.5
115	37.7	28.9	43.3



Instrument :
BNA_P
ClientSampleId :
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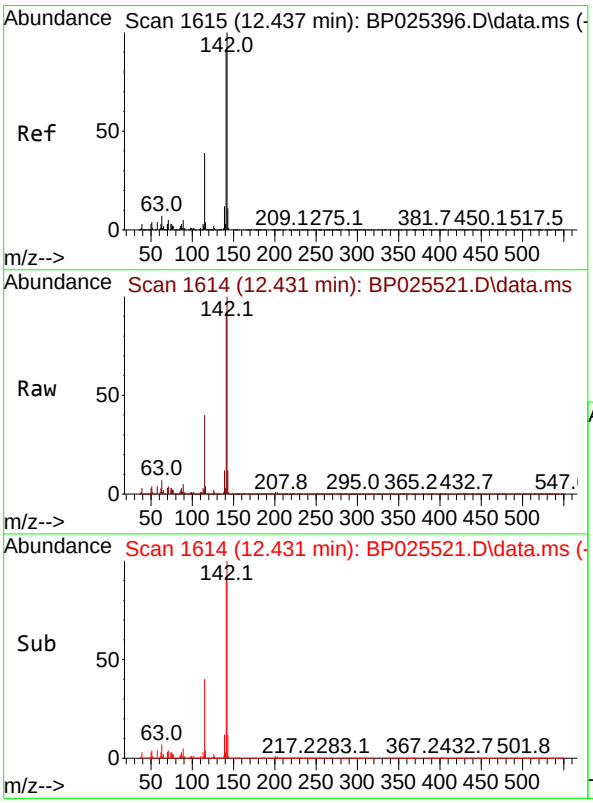
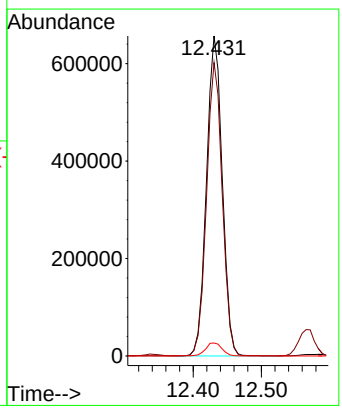
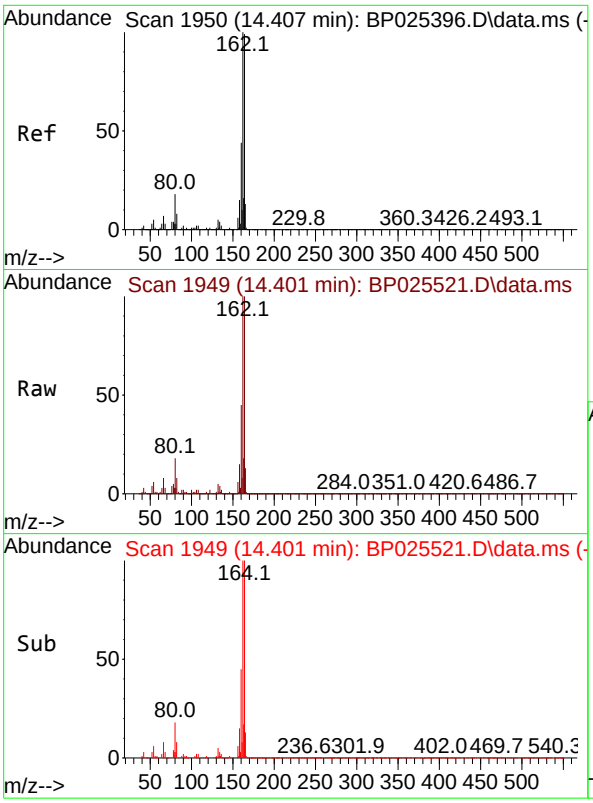


#38
1-Methylnaphthalene
Concen: 44.241 ng
RT: 12.431 min Scan# 1614
Delta R.T. -0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:142 Resp: 1055711

Ion	Ratio	Lower	Upper
142	100		
141	91.7	73.1	109.7
116	4.0	3.2	4.8

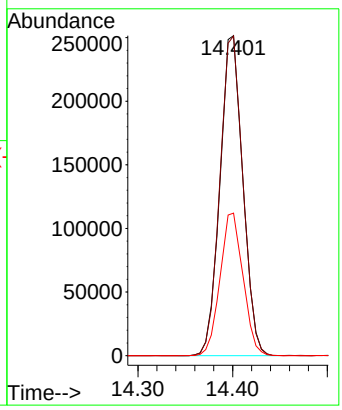




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.401 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:164 Resp: 42283

Ion	Ratio	Lower	Upper
164	100		
162	99.9	81.0	121.6
160	44.5	35.4	53.2



Instrument :
BNA_P
ClientSampleId :
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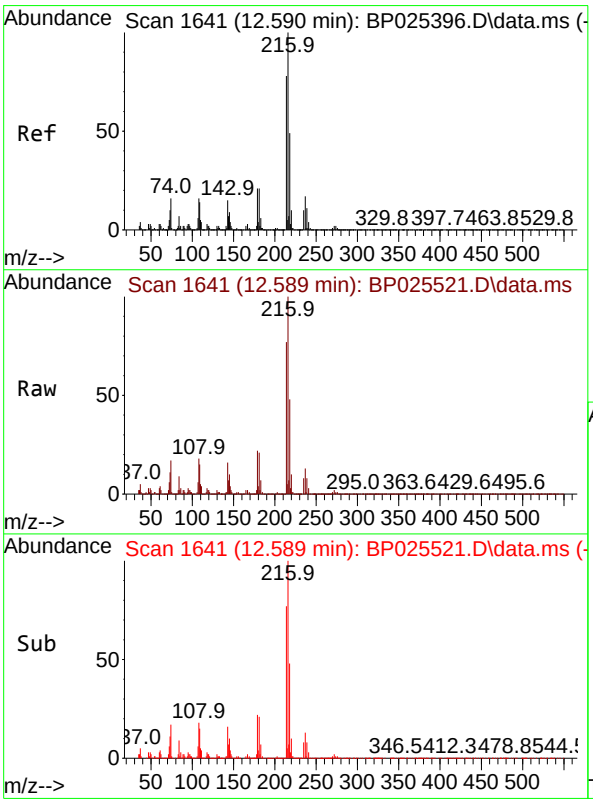
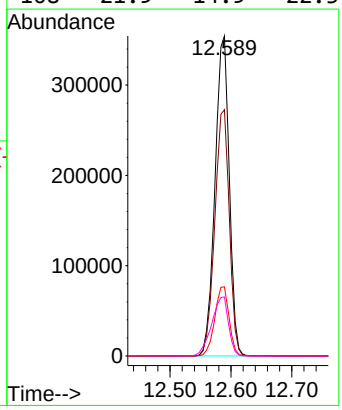
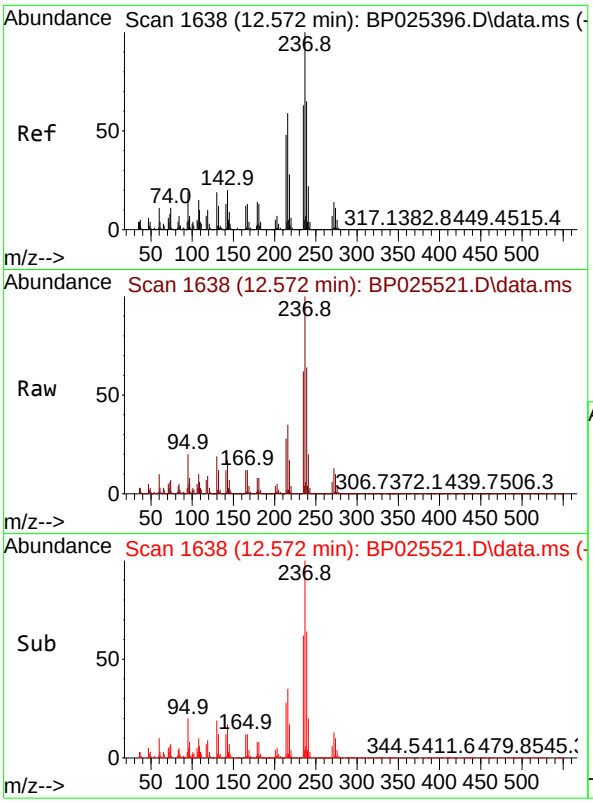


#40
1,2,4,5-Tetrachlorobenzene
Concen: 47.117 ng
RT: 12.589 min Scan# 1641
Delta R.T. -0.000 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:216 Resp: 575385

Ion	Ratio	Lower	Upper
216	100		
214	78.4	63.0	94.4
179	21.7	17.1	25.7
108	21.9	14.9	22.3

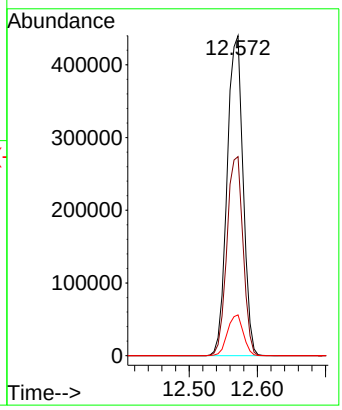




#41
Hexachlorocyclopentadiene
Concen: 96.973 ng
RT: 12.572 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:237 Resp: 71531

Ion	Ratio	Lower	Upper
237	100		
235	62.2	42.7	82.7
272	12.8	0.0	34.0



Instrument :
BNA_P
ClientSampleId :
38M-NMSD

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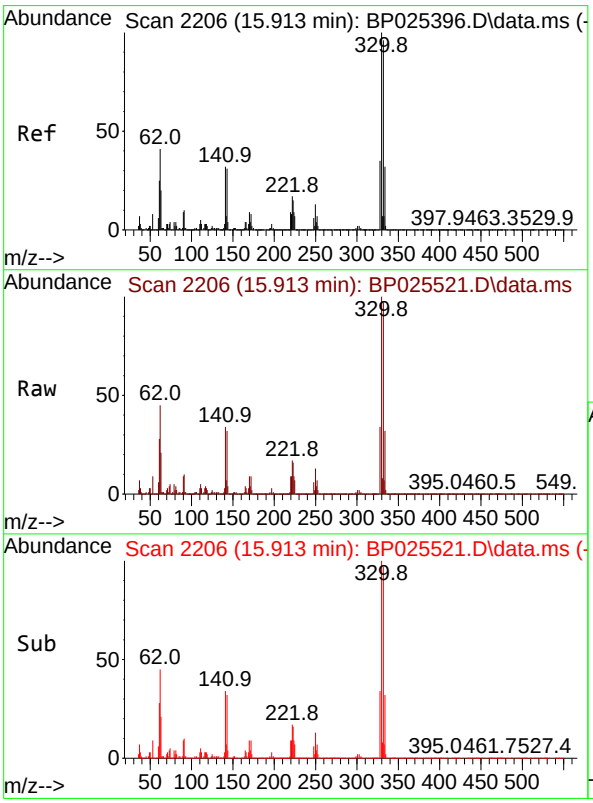
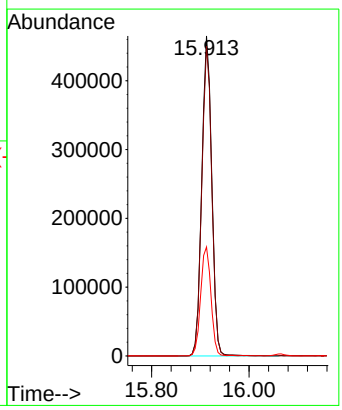
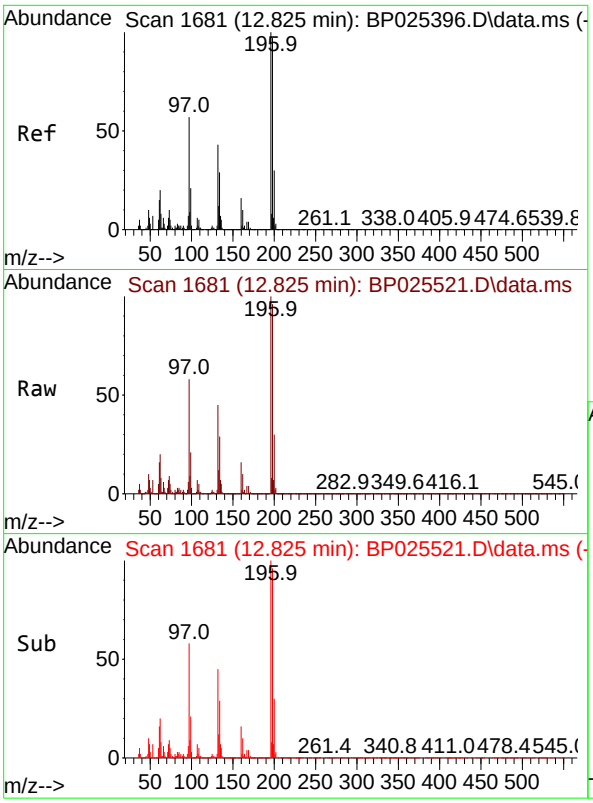


#42
2,4,6-Tribromophenol
Concen: 116.255 ng
RT: 15.913 min Scan# 2206
Delta R.T. -0.000 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:330 Resp: 661648

Ion	Ratio	Lower	Upper
330	100		
332	97.1	77.3	115.9
141	35.1	26.6	39.8





#43
2,4,6-Trichlorophenol
Concen: 49.699 ng
RT: 12.825 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:196 Resp: 40973

Ion	Ratio	Lower	Upper
196	100		
198	95.7	77.2	115.8
200	30.4	23.9	35.9

Instrument :
BNA_P
ClientSampleId :
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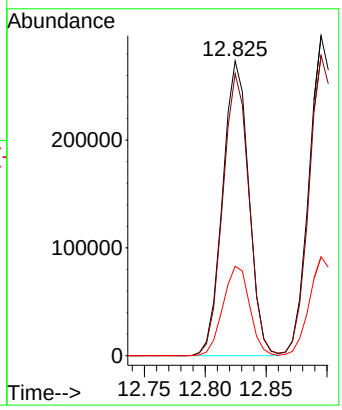
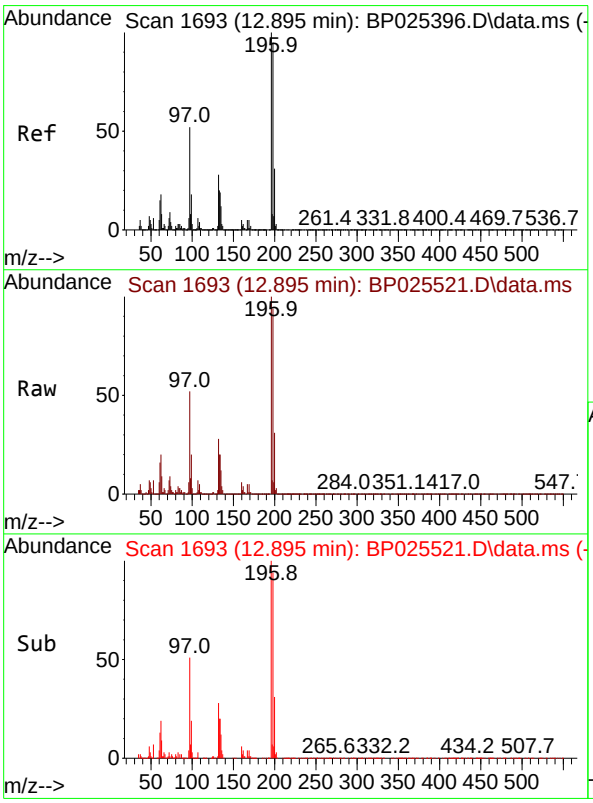
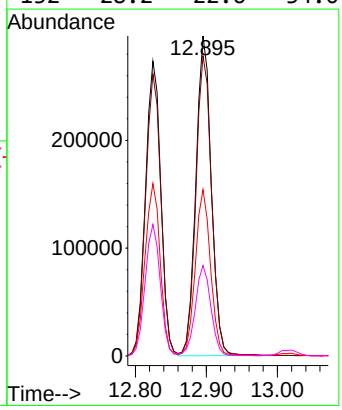


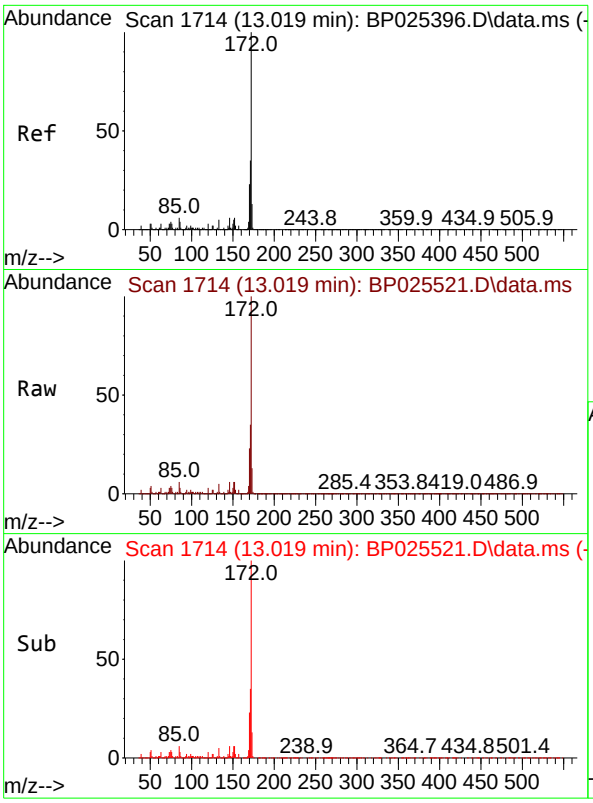


#44
2,4,5-Trichlorophenol
Concen: 49.780 ng
RT: 12.895 min Scan# 1693
Delta R.T. -0.000 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:196 Resp: 449793

Ion	Ratio	Lower	Upper
196	100		
198	93.8	76.2	114.2
97	51.9	41.2	61.8
132	28.2	22.6	34.0

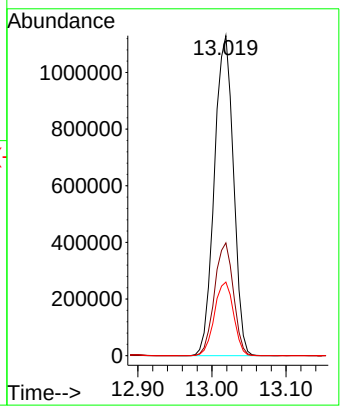




#45
2-Fluorobiphenyl
Concen: 65.271 ng
RT: 13.019 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:172 Resp: 201936

Ion	Ratio	Lower	Upper
172	100		
171	35.3	28.1	42.1
170	23.0	18.6	28.0



Instrument :
BNA_P
ClientSampleId :
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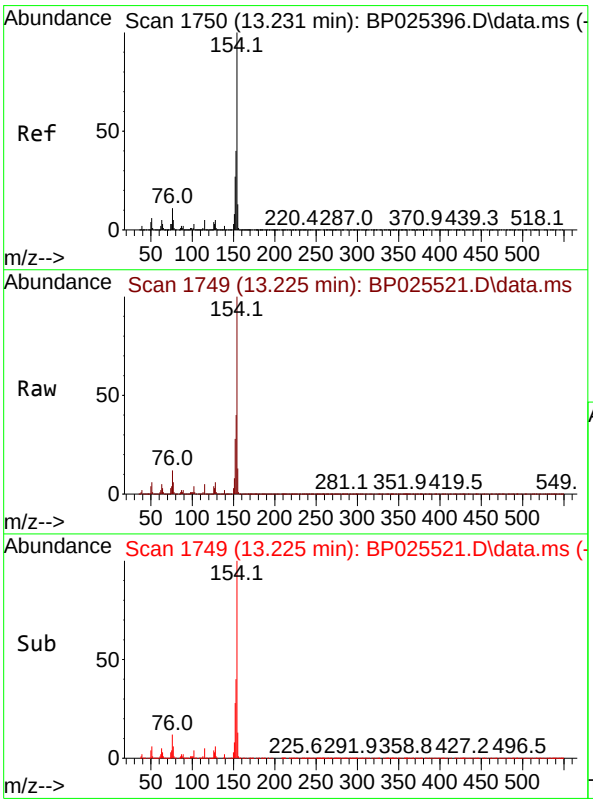
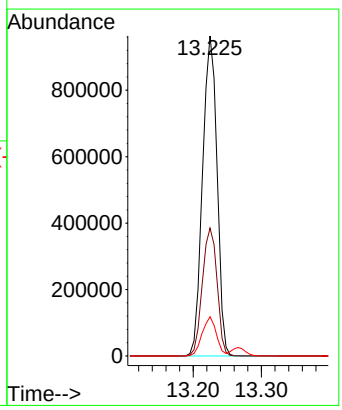
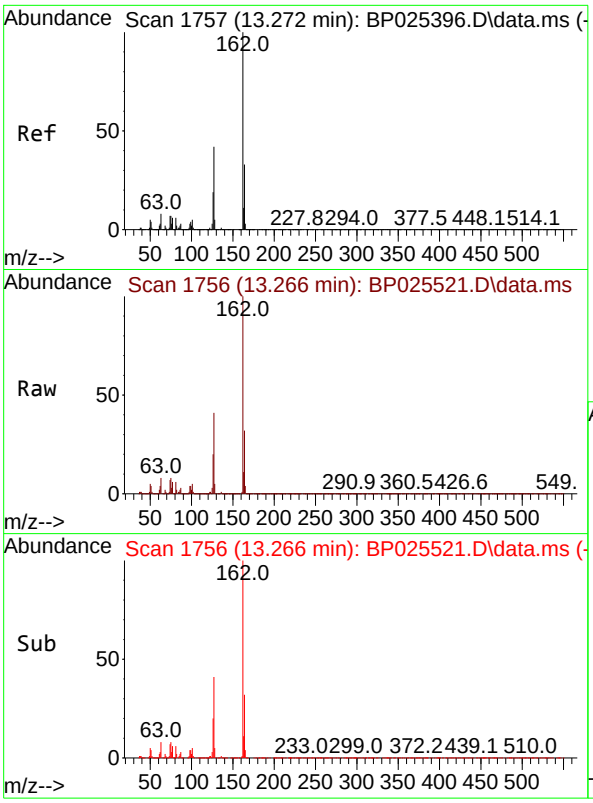


#46
1,1'-Biphenyl
Concen: 46.410 ng
RT: 13.225 min Scan# 1749
Delta R.T. -0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:154 Resp: 1425183

Ion	Ratio	Lower	Upper
154	100		
153	39.9	19.5	59.5
76	12.2	0.0	31.1

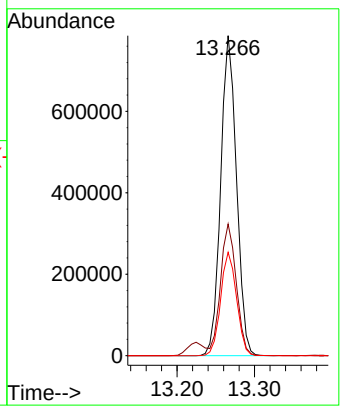




#47
2-Chloronaphthalene
Concen: 46.575 ng
RT: 13.266 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:162 Resp: 111343

Ion	Ratio	Lower	Upper
162	100		
127	41.2	33.4	50.2
164	32.3	26.2	39.2



Instrument :
BNA_P
ClientSampleId :
38M-NMSD

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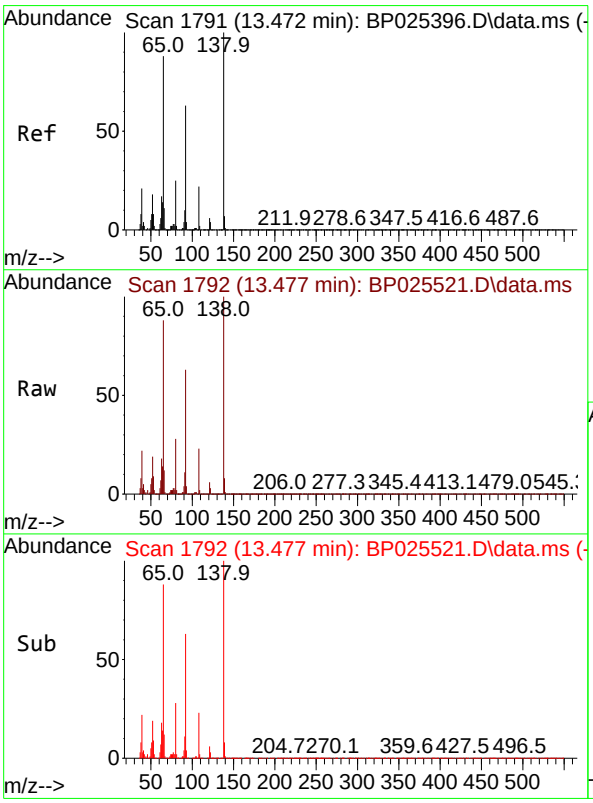
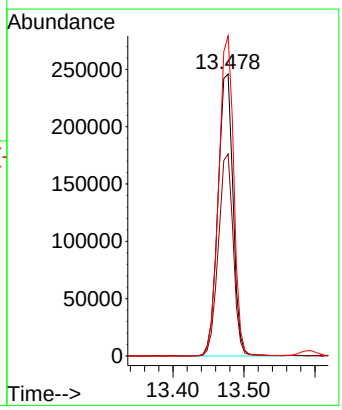
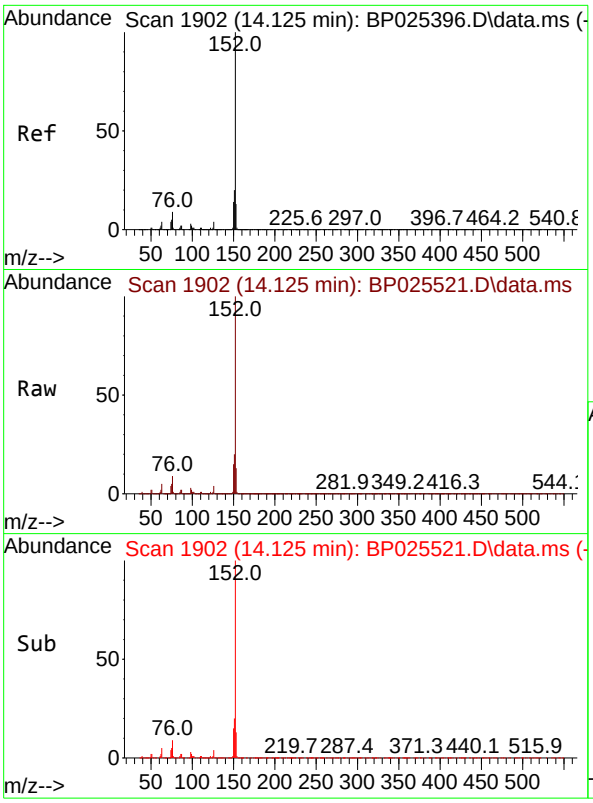


#48
2-Nitroaniline
Concen: 52.041 ng
RT: 13.477 min Scan# 1792
Delta R.T. 0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion: 65 Resp: 362504

Ion	Ratio	Lower	Upper
65	100		
92	71.6	57.6	86.4
138	113.5	91.0	136.6

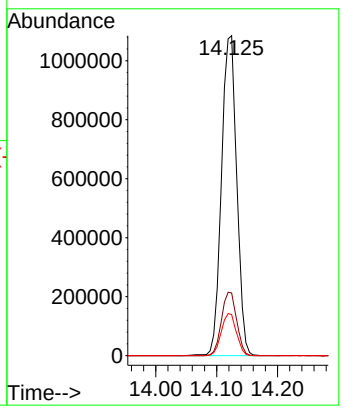




#49
Acenaphthylene
Concen: 47.713 ng
RT: 14.125 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:152 Resp: 188741

Ion	Ratio	Lower	Upper
152	100		
151	19.6	16.0	24.0
153	12.9	10.6	15.8



Instrument :
BNA_P
ClientSampleId :
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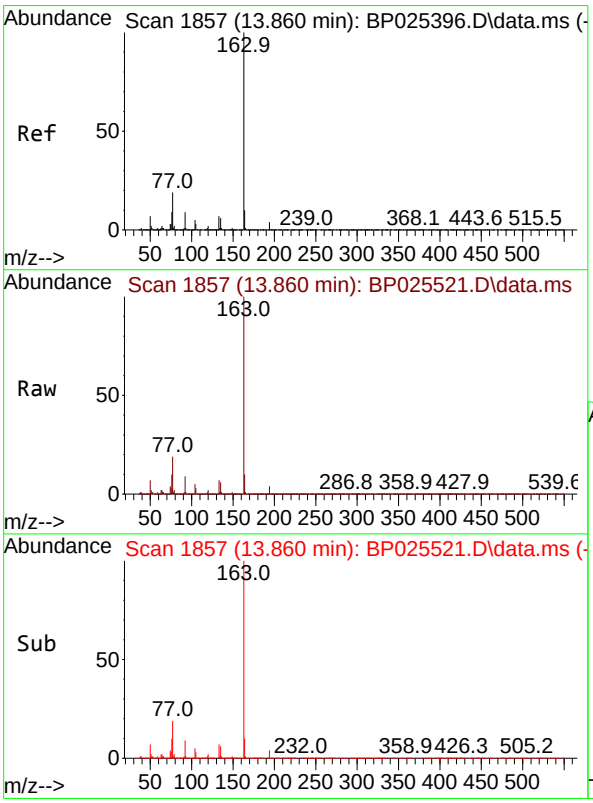
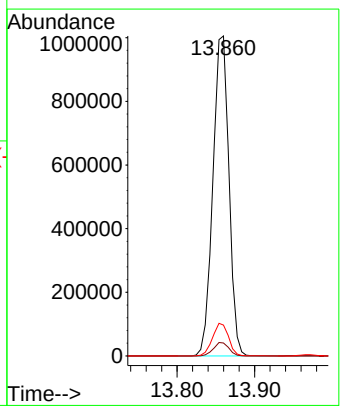
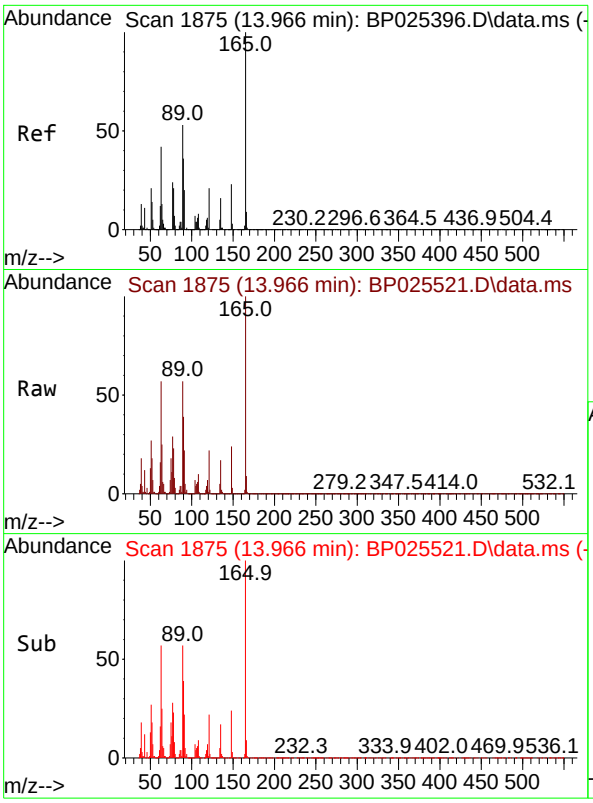


#50
Dimethylphthalate
Concen: 46.677 ng
RT: 13.860 min Scan# 1857
Delta R.T. -0.000 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:163 Resp: 1445275

Ion	Ratio	Lower	Upper
163	100		
194	4.1	3.4	5.0
164	9.6	7.9	11.9





#51
2,6-Dinitrotoluene
Concen: 49.982 ng
RT: 13.966 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:165 Resp: 32618

Ion	Ratio	Lower	Upper
165	100		
63	56.9	40.9	61.3
89	56.6	42.1	63.1

Instrument :
BNA_P
ClientSampleId :
38M-NMSD

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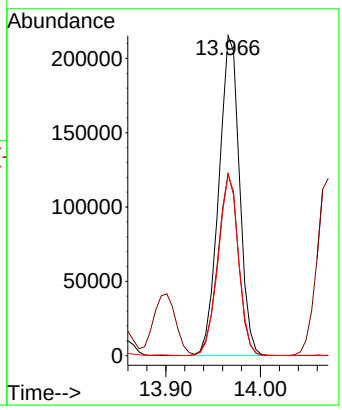
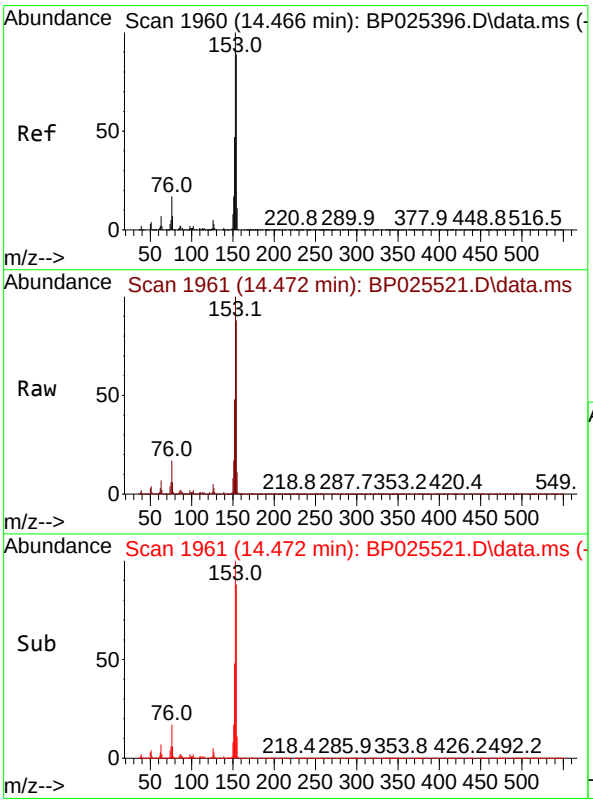
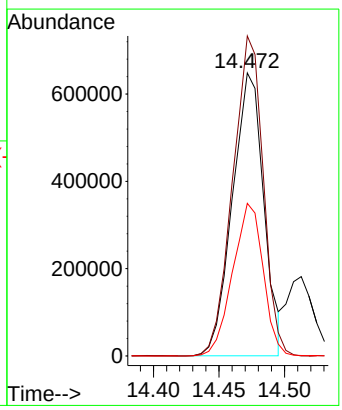


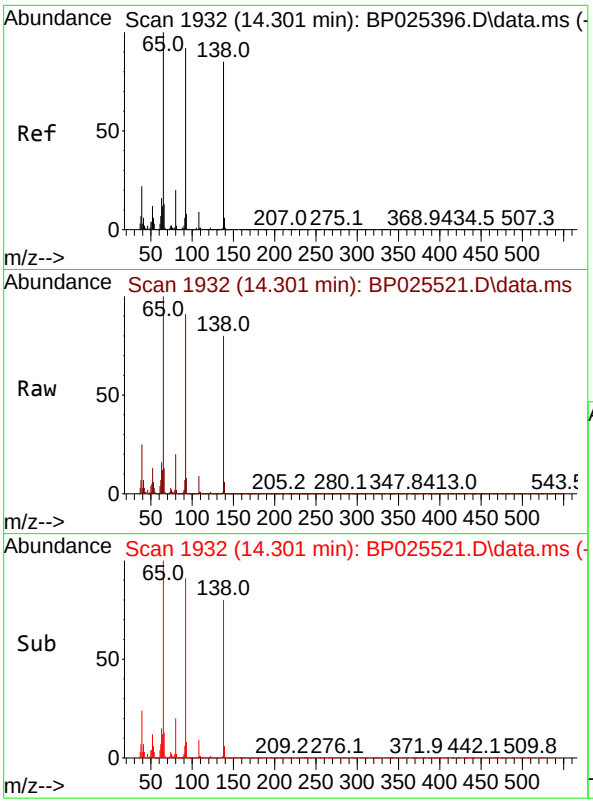


#52
Acenaphthene
Concen: 46.430 ng
RT: 14.472 min Scan# 1961
Delta R.T. 0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:154 Resp: 1078099

Ion	Ratio	Lower	Upper
154	100		
153	113.0	90.2	135.2
152	53.9	42.1	63.1

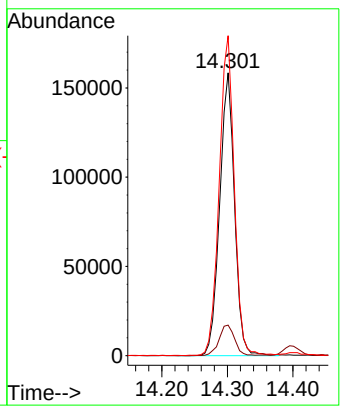




#53
3-Nitroaniline
Concen: 33.806 ng
RT: 14.301 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:138 Resp: 24822

Ion	Ratio	Lower	Upper
138	100		
108	10.8	8.3	12.5
92	113.1	86.2	129.2



Instrument :
BNA_P
ClientSampleId :
38M-NMSD

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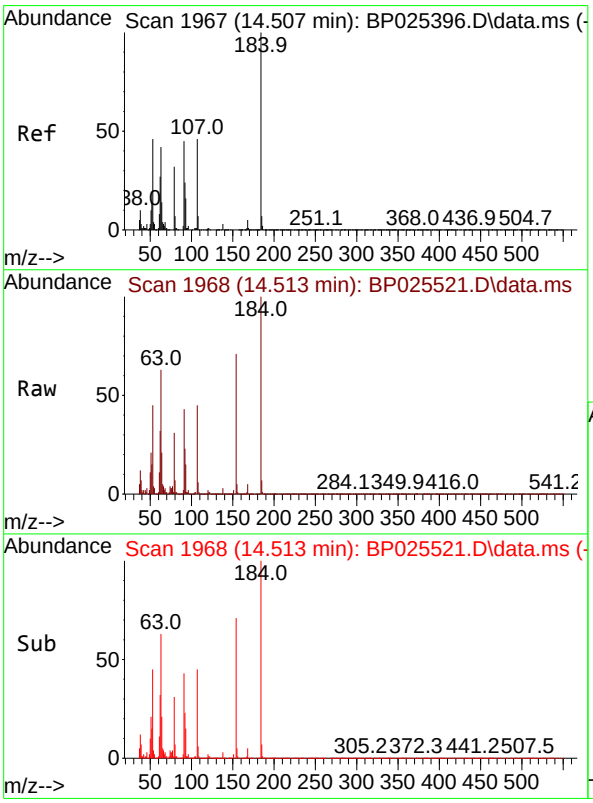
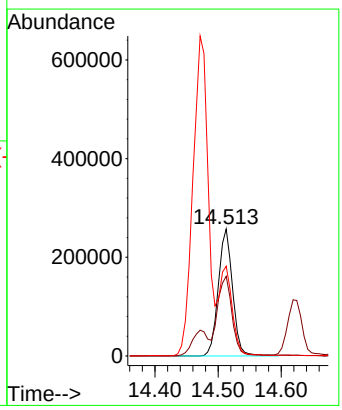
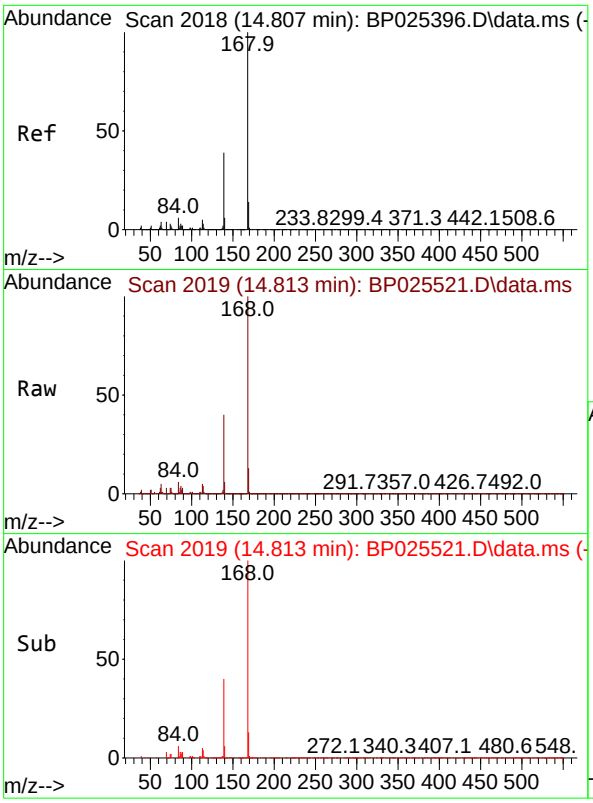


#54
2,4-Dinitrophenol
Concen: 116.529 ng
RT: 14.513 min Scan# 1968
Delta R.T. 0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:184 Resp: 406122

Ion	Ratio	Lower	Upper
184	100		
63	62.8	49.4	74.2
154	70.7	54.6	82.0

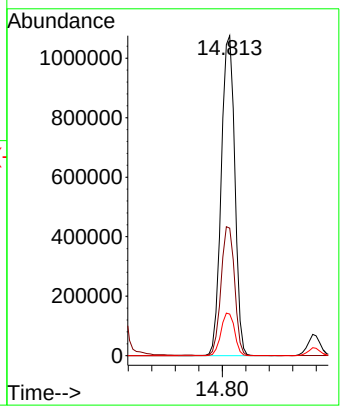




#55
Dibenzofuran
Concen: 46.799 ng
RT: 14.813 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:168 Resp: 171800

Ion	Ratio	Lower	Upper
168	100		
139	39.8	31.5	47.3
169	13.0	10.9	16.3



Instrument :
BNA_P
ClientSampleId :
38M-NMSD

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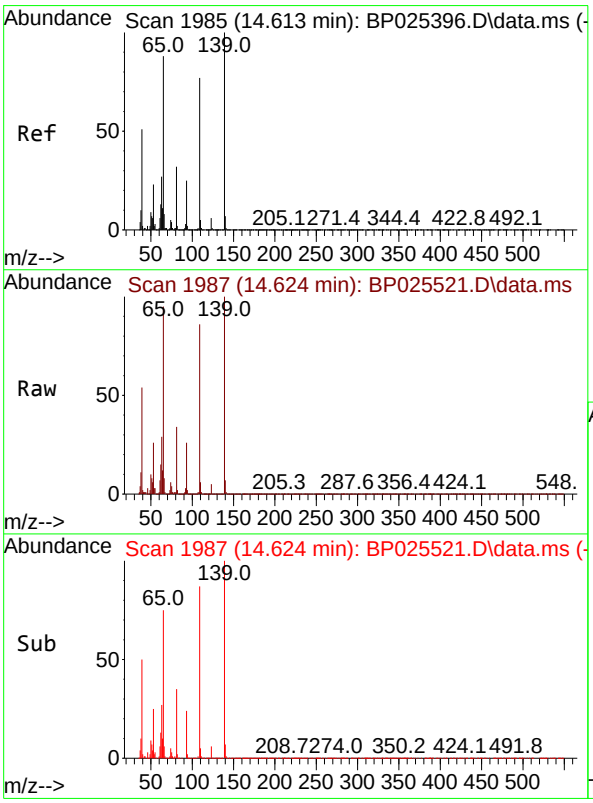
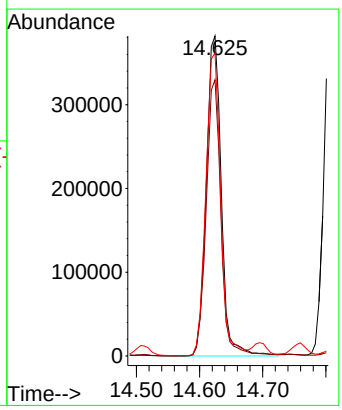
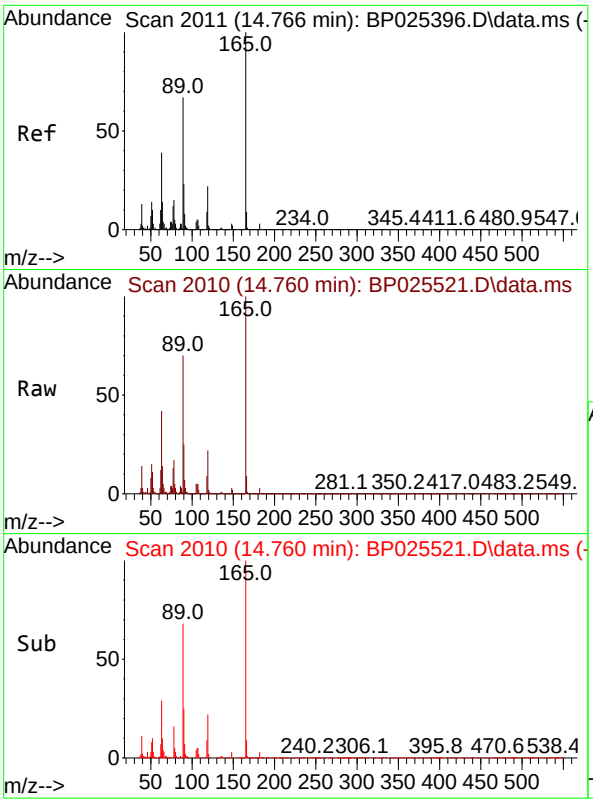


#56
4-Nitrophenol
Concen: 104.595 ng
RT: 14.624 min Scan# 1987
Delta R.T. 0.012 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:139 Resp: 631088

Ion	Ratio	Lower	Upper
139	100		
109	86.3	56.6	96.6
65	94.7	68.2	108.2

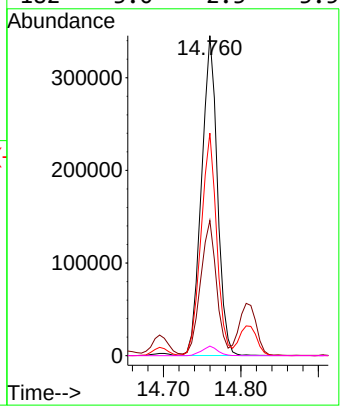




#57
2,4-Dinitrotoluene
Concen: 52.625 ng
RT: 14.760 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:165 Resp: 49000

Ion	Ratio	Lower	Upper
165	100		
63	42.2	31.4	47.2
89	69.6	53.3	79.9
182	3.0	2.3	3.5



Instrument :
BNA_P
ClientSampleId :
38M-NMSD

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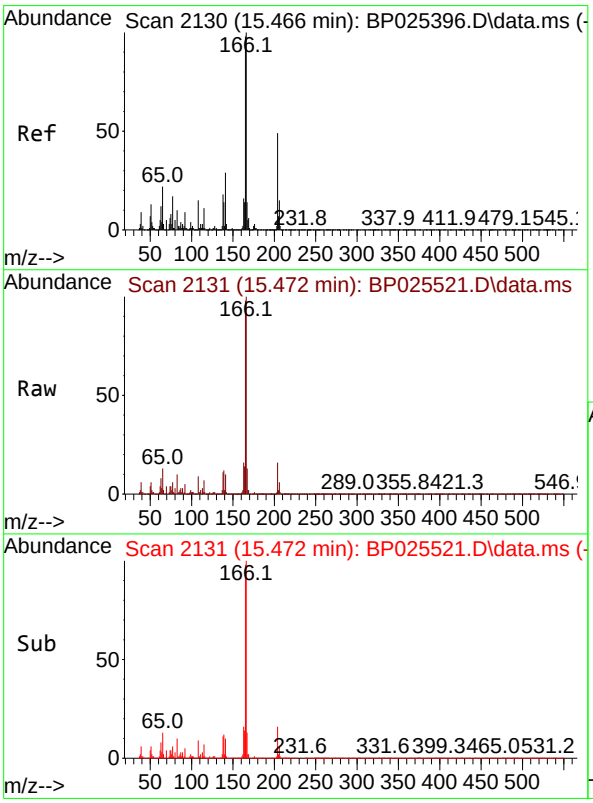
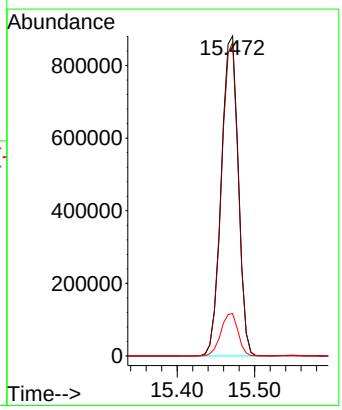
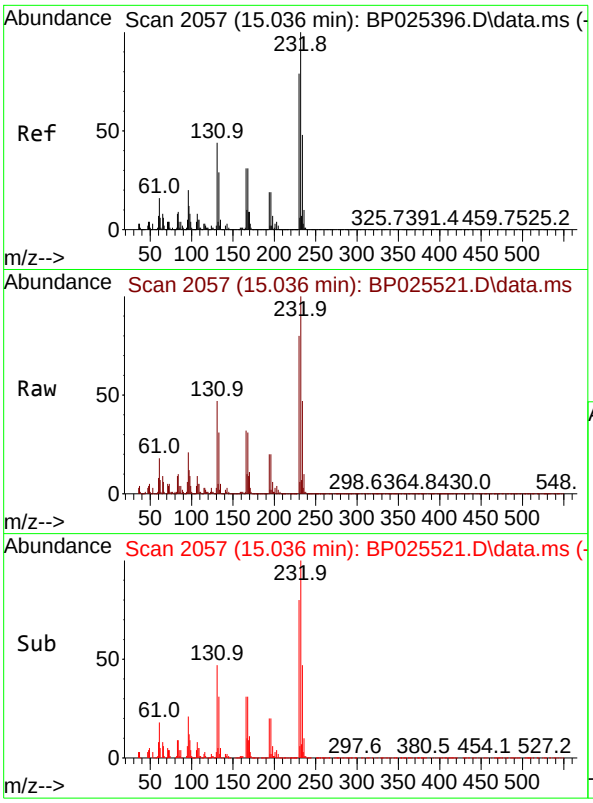


#58
Fluorene
Concen: 46.402 ng
RT: 15.472 min Scan# 2131
Delta R.T. 0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:166 Resp: 1344141

Ion	Ratio	Lower	Upper
166	100		
165	98.0	78.8	118.2
167	13.2	11.0	16.4

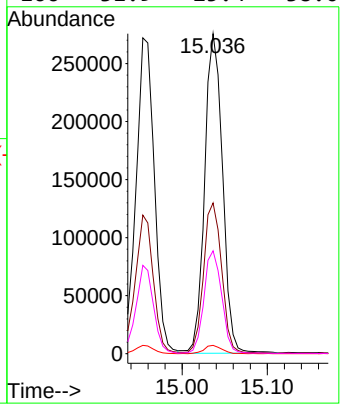




#59
2,3,4,6-Tetrachlorophenol
Concen: 50.461 ng
RT: 15.036 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:232 Resp: 40258

Ion	Ratio	Lower	Upper
232	100		
131	47.9	37.0	55.6
130	2.6	1.9	2.9
166	31.9	25.4	38.0



Instrument :
BNA_P
ClientSampleId :
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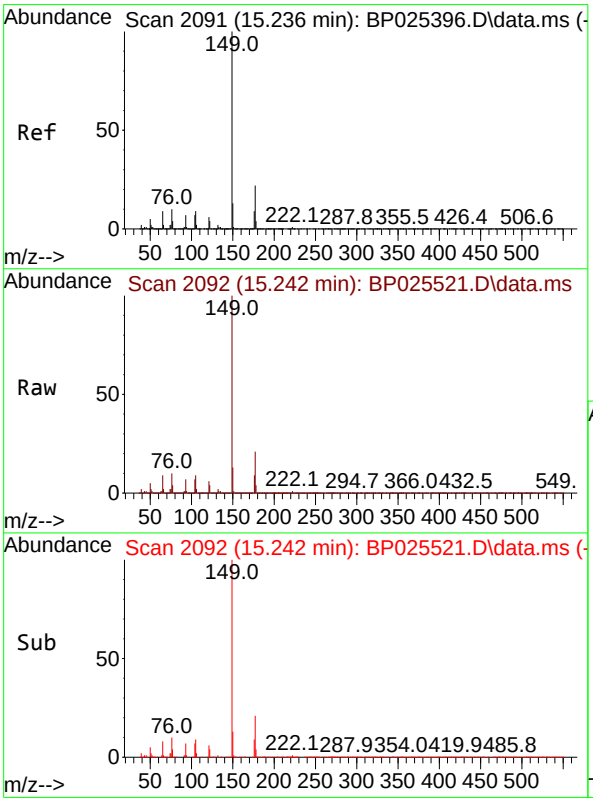
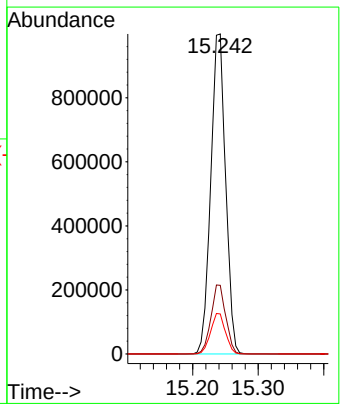
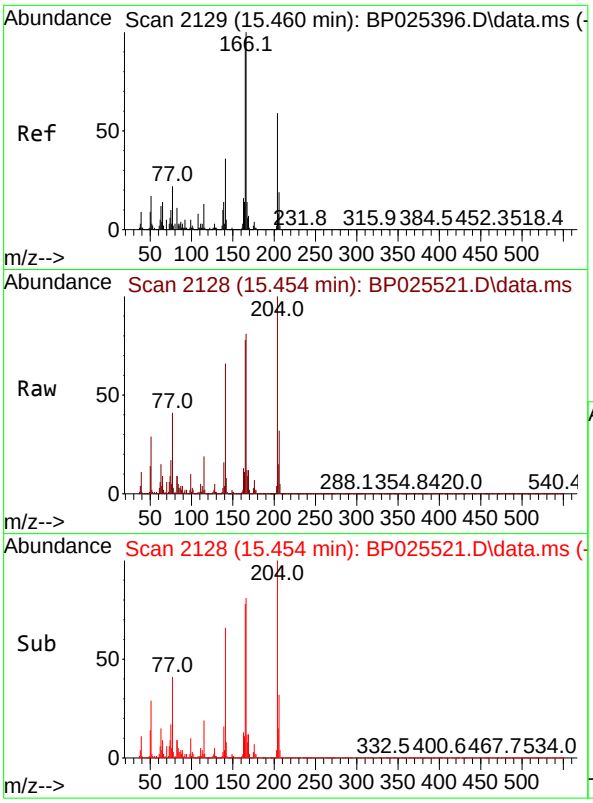


#60
Diethylphthalate
Concen: 49.879 ng
RT: 15.242 min Scan# 2092
Delta R.T. 0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:149 Resp: 1569300

Ion	Ratio	Lower	Upper
149	100		
177	21.5	17.3	25.9
150	12.5	10.3	15.5





#61
4-Chlorophenyl-phenylether
Concen: 46.631 ng
RT: 15.454 min Scan# 21
Delta R.T. -0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:204 Resp: 67179

Ion	Ratio	Lower	Upper
204	100		
206	32.2	25.8	38.8
141	66.2	49.4	74.2

Instrument :
BNA_P
ClientSampleId :
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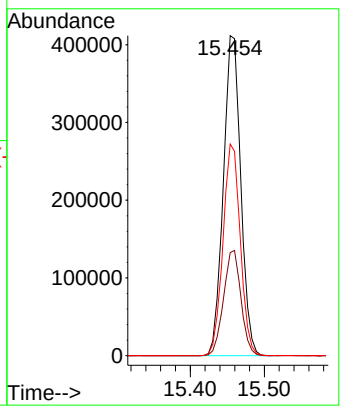
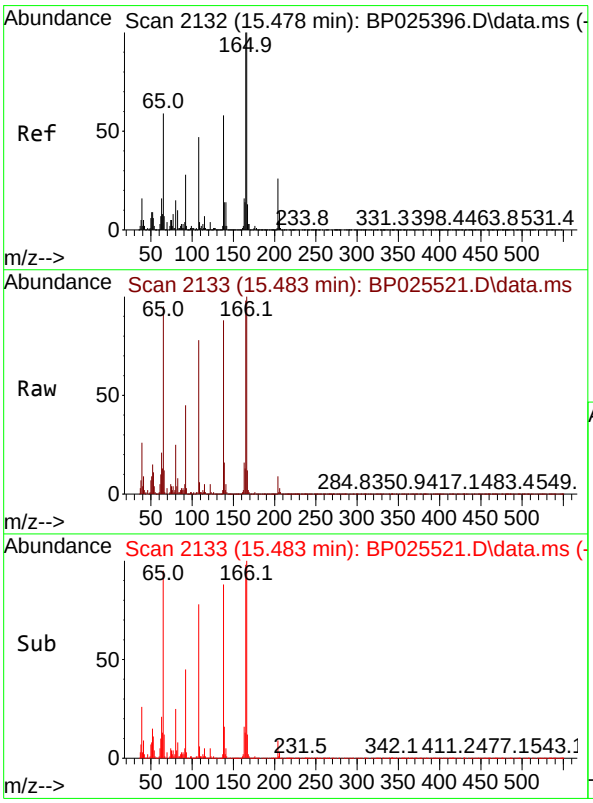
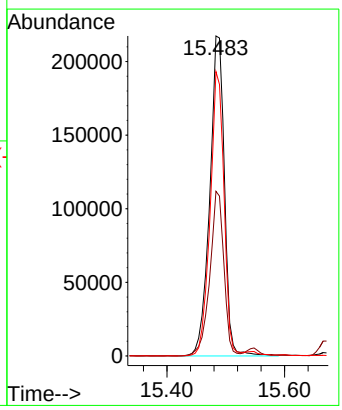


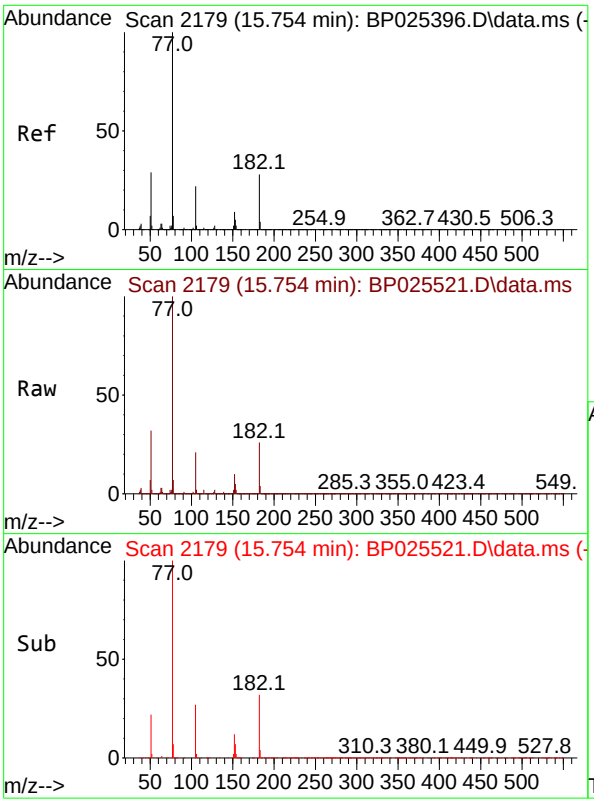


#62
4-Nitroaniline
Concen: 50.122 ng
RT: 15.483 min Scan# 2133
Delta R.T. 0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:138 Resp: 377285

Ion	Ratio	Lower	Upper
138	100		
92	51.4	29.1	69.1
108	88.8	61.5	101.5

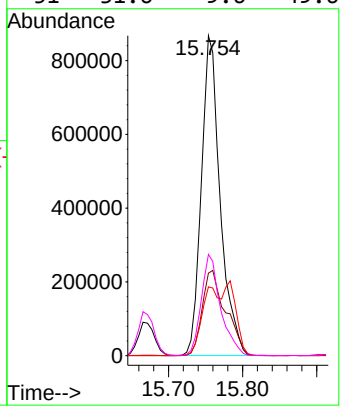




#63
Azobenzene
Concen: 56.805 ng
RT: 15.754 min Scan# 21
Delta R.T. -0.000 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion: 77 Resp: 153031

Ion	Ratio	Lower	Upper
77	100		
182	25.8	7.5	47.5
105	21.5	2.1	42.1
51	31.6	9.6	49.6



Instrument :
BNA_P
ClientSampleId :
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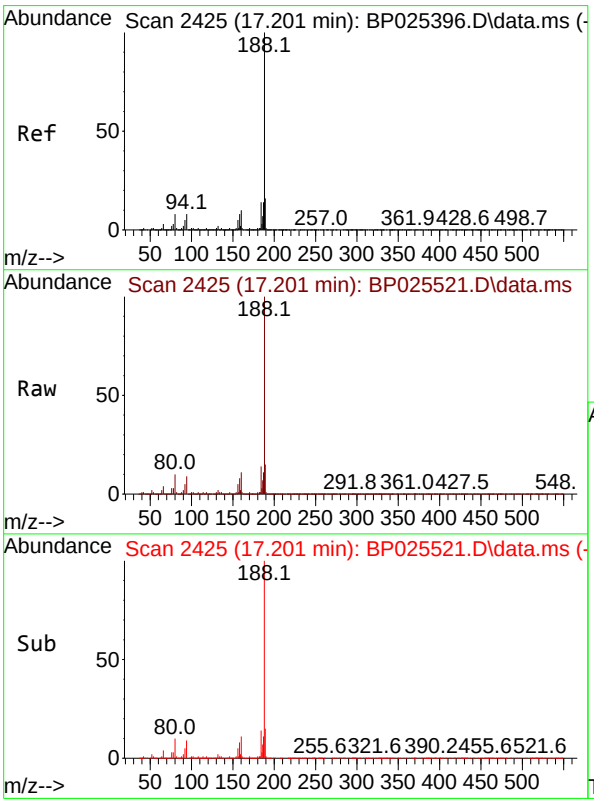
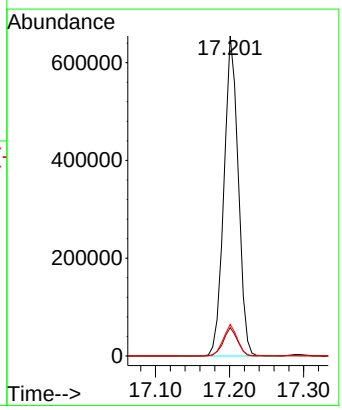
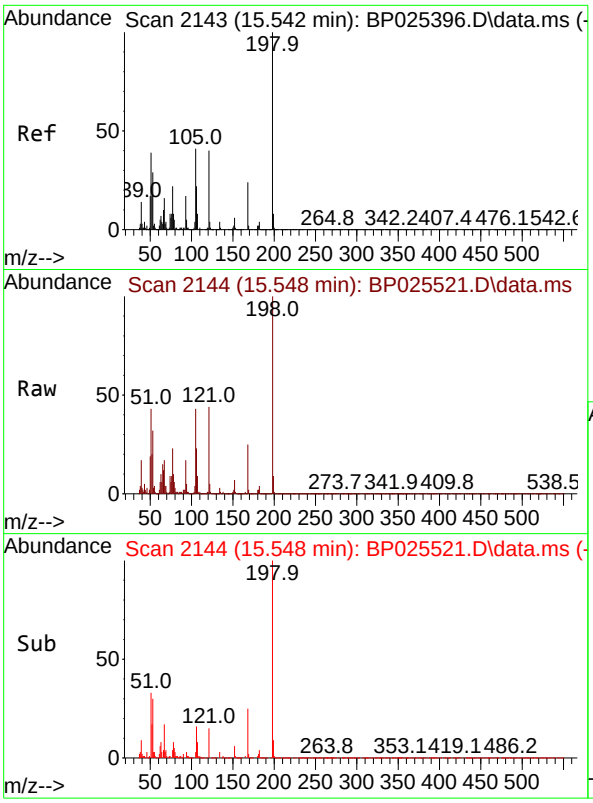


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.201 min Scan# 2425
Delta R.T. -0.000 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:188 Resp: 876970

Ion	Ratio	Lower	Upper
188	100		
94	8.9	6.6	10.0
80	9.9	6.7	10.1

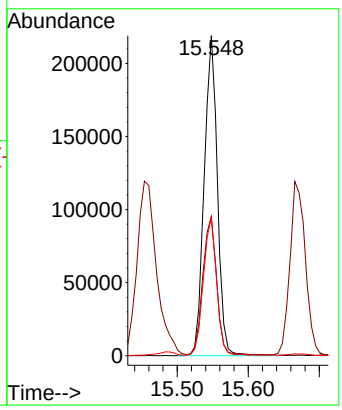




#65
4,6-Dinitro-2-methylphenol
Concen: 51.847 ng
RT: 15.548 min Scan# 21
Delta R.T. 0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:198 Resp: 28342

Ion	Ratio	Lower	Upper
198	100		
51	43.4	19.6	59.6
105	43.2	20.9	60.9



Instrument :
BNA_P
ClientSampleId :
38M-NMSD

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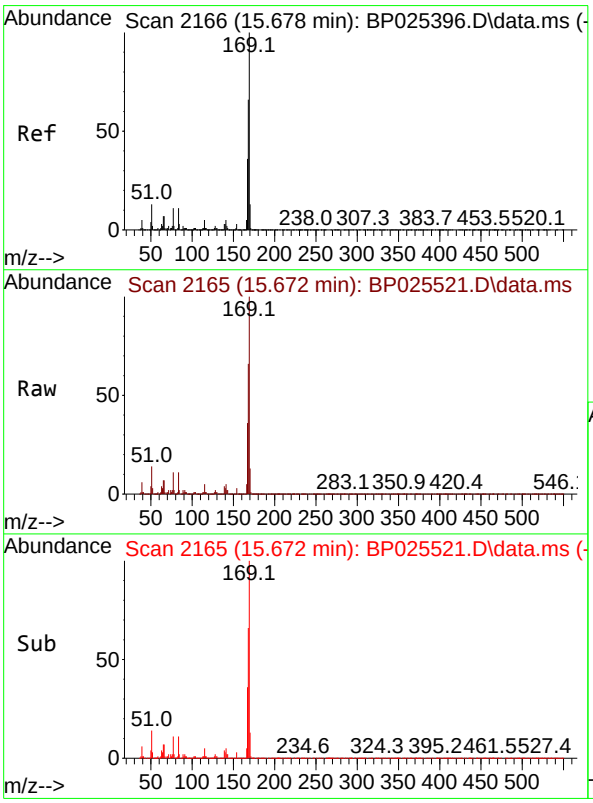
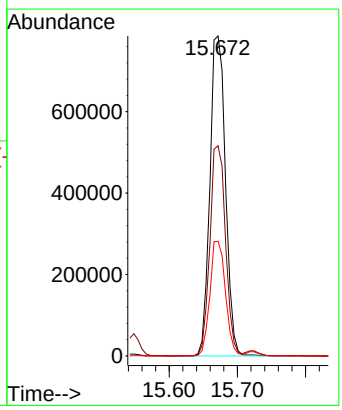
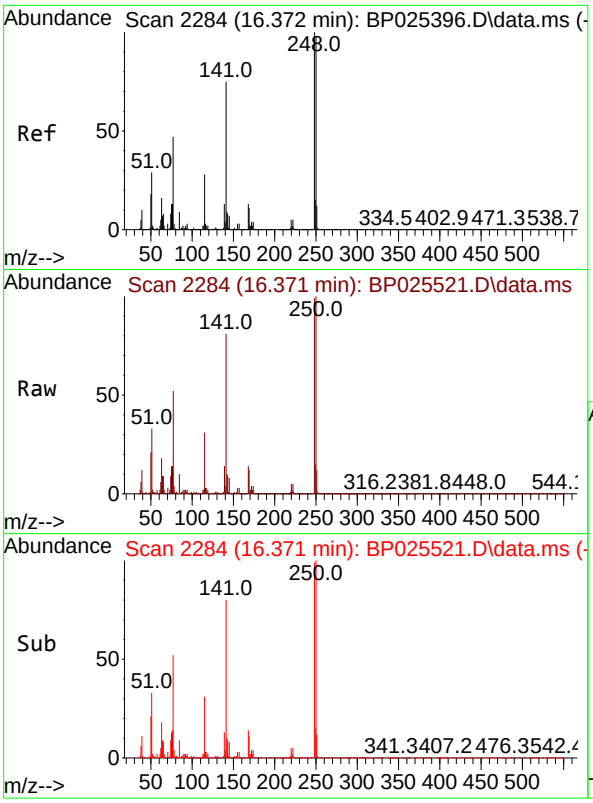


#66
n-Nitrosodiphenylamine
Concen: 46.799 ng
RT: 15.672 min Scan# 2165
Delta R.T. -0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:169 Resp: 1251523

Ion	Ratio	Lower	Upper
169	100		
168	65.7	53.2	79.8
167	35.8	28.7	43.1





#67
4-Bromophenyl-phenylether
Concen: 46.483 ng
RT: 16.371 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:248 Resp: 44832

Ion	Ratio	Lower	Upper
248	100		
250	100.6	78.2	117.2
141	81.2	59.6	89.4

Instrument :
BNA_P
ClientSampleId :
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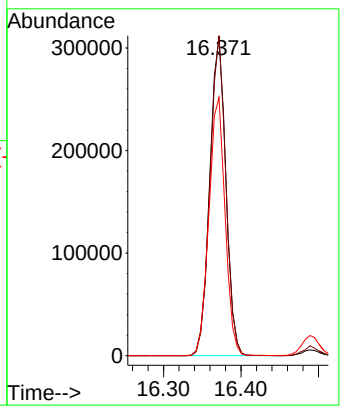
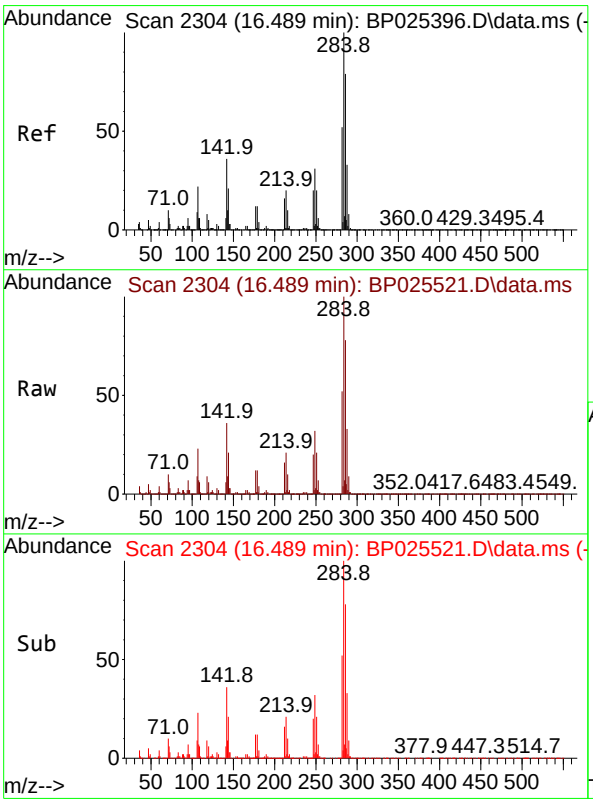
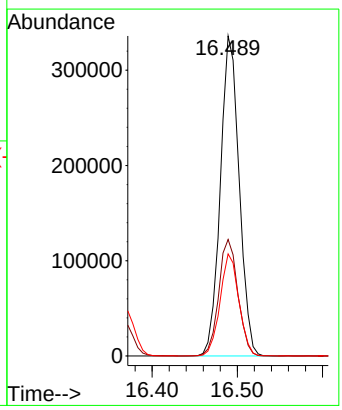


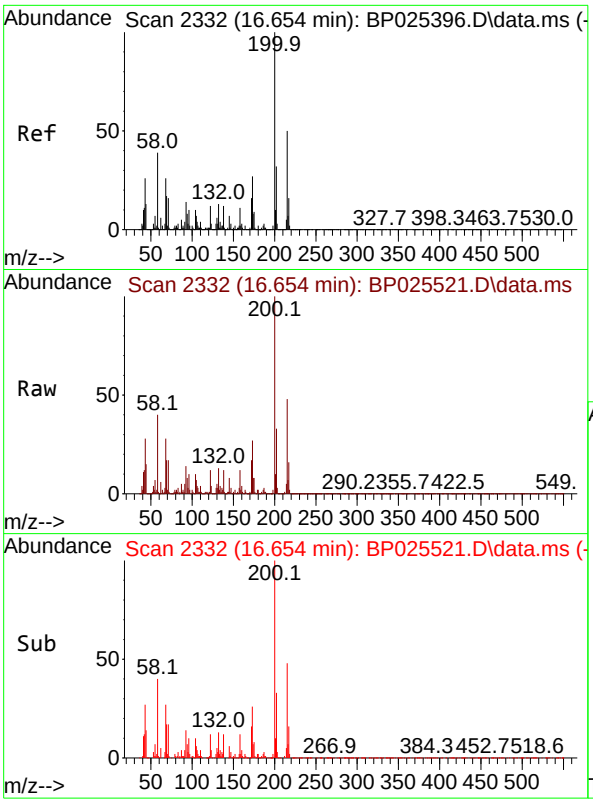


#68
Hexachlorobenzene
Concen: 46.040 ng
RT: 16.489 min Scan# 2304
Delta R.T. -0.000 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:284 Resp: 514752

Ion	Ratio	Lower	Upper
284	100		
142	36.4	29.1	43.7
249	31.9	25.0	37.4





#69
Atrazine
Concen: 49.315 ng
RT: 16.654 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:200 Resp: 49389

Ion	Ratio	Lower	Upper
200	100		
173	26.6	6.7	46.7
215	47.9	29.7	69.7

Instrument :
BNA_P
ClientSampleId :
38M-NMSD

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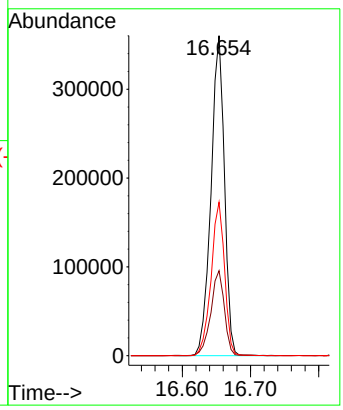
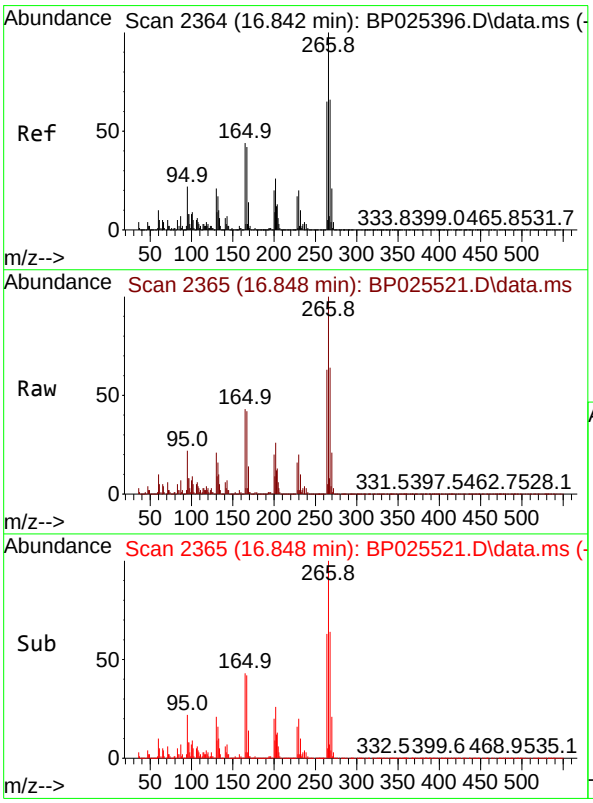
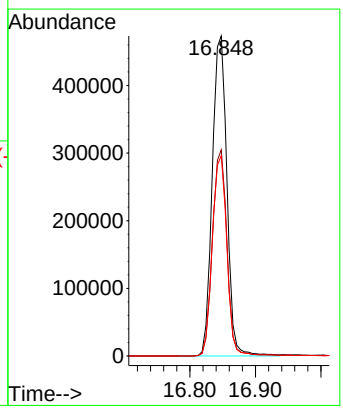


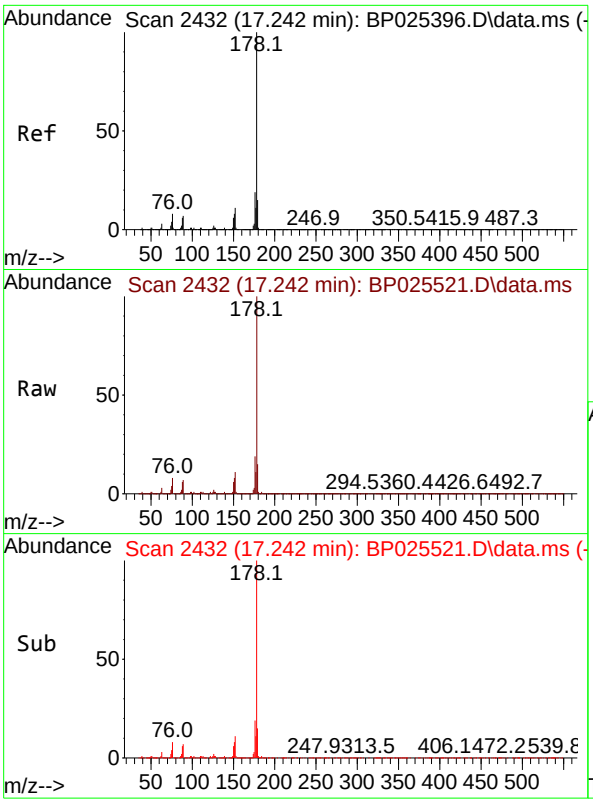


#70
Pentachlorophenol
Concen: 103.867 ng
RT: 16.848 min Scan# 2365
Delta R.T. 0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:266 Resp: 733067

Ion	Ratio	Lower	Upper
266	100		
268	64.4	52.6	79.0
264	62.6	52.0	78.0

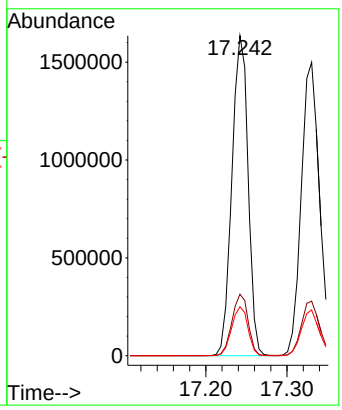




#71
Phenanthrene
Concen: 46.879 ng
RT: 17.242 min Scan# 24
Delta R.T. -0.000 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:178 Resp: 225840

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.5	23.3
179	15.3	12.2	18.4



Instrument :
BNA_P
ClientSampleId :
38M-NMSD

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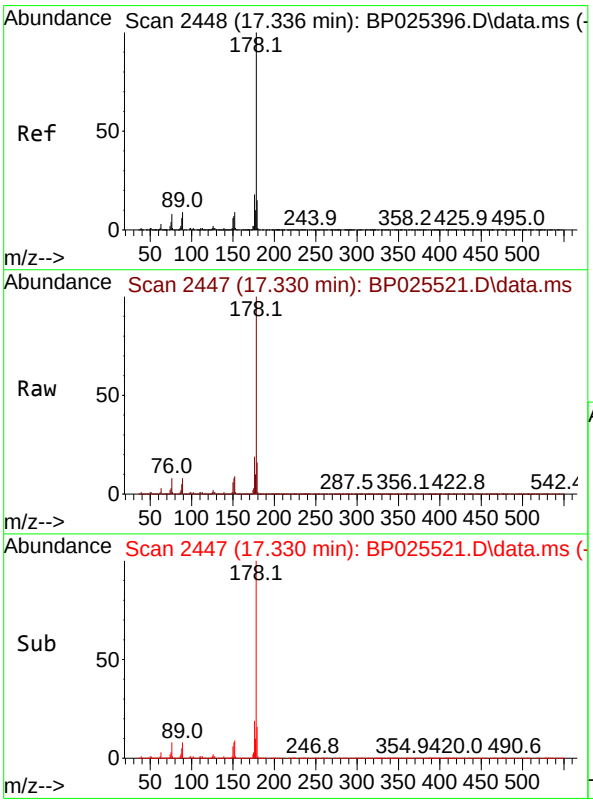
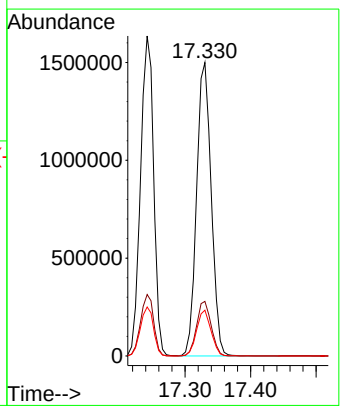
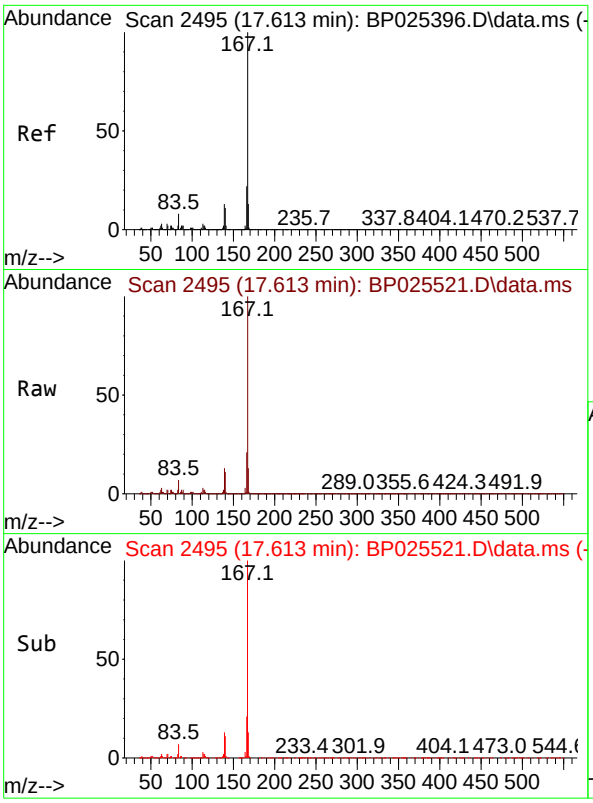


#72
Anthracene
Concen: 47.367 ng
RT: 17.330 min Scan# 2447
Delta R.T. -0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:178 Resp: 2330282

Ion	Ratio	Lower	Upper
178	100		
176	18.6	14.7	22.1
179	15.6	12.2	18.2

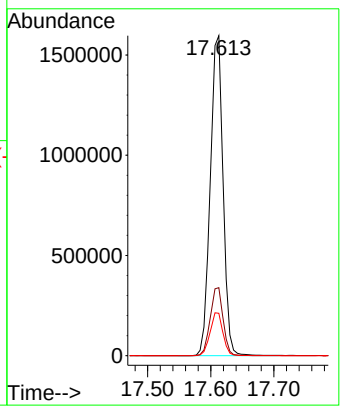




#73
Carbazole
Concen: 48.460 ng
RT: 17.613 min Scan# 24
Delta R.T. -0.000 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:167 Resp: 224557

Ion	Ratio	Lower	Upper
167	100		
166	21.2	17.5	26.3
139	13.2	10.6	16.0



Instrument :
BNA_P
ClientSampleId :
38M-NMSD

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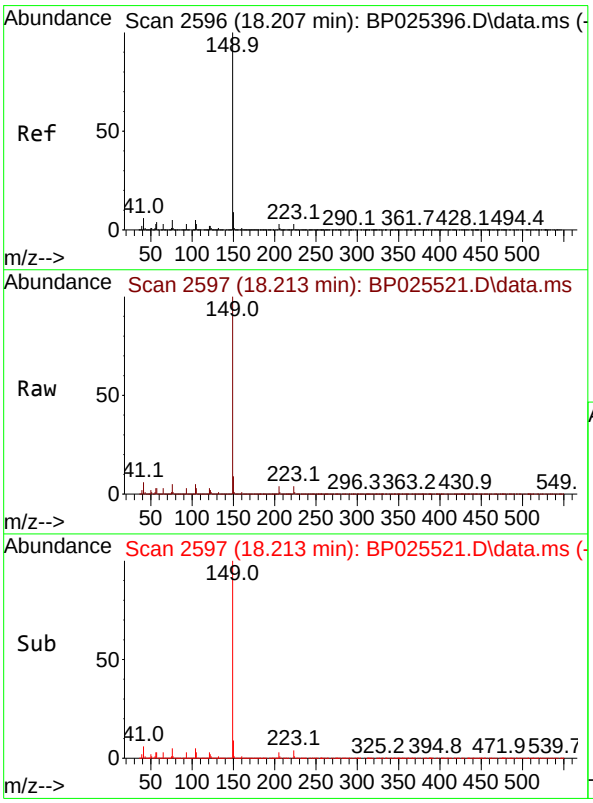
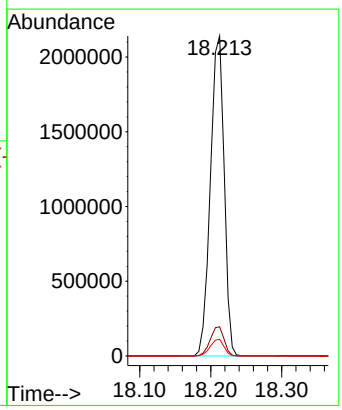
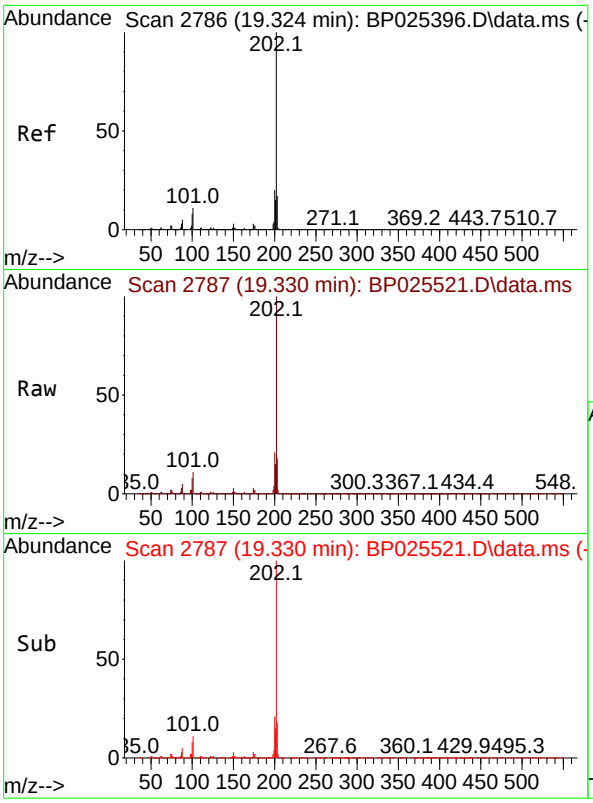


#74
Di-n-butylphthalate
Concen: 50.547 ng
RT: 18.213 min Scan# 2597
Delta R.T. 0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:149 Resp: 2881804

Ion	Ratio	Lower	Upper
149	100		
150	9.1	7.4	11.0
104	5.2	4.2	6.2

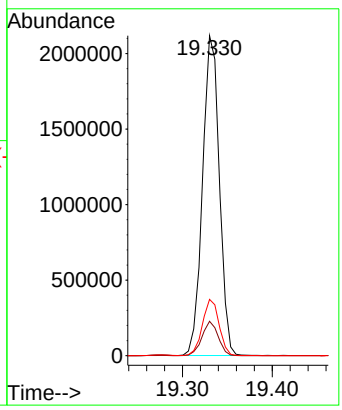




#75
Fluoranthene
Concen: 47.871 ng
RT: 19.330 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:202 Resp: 275085

Ion	Ratio	Lower	Upper
202	100		
101	10.8	0.0	31.1
203	17.6	0.0	37.3



Instrument :
BNA_P
ClientSampleId :
38M-NMSD

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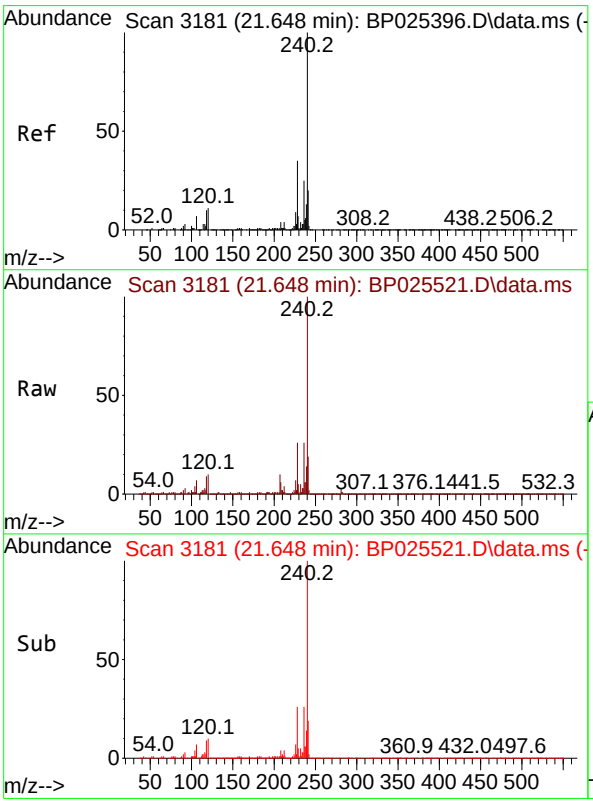
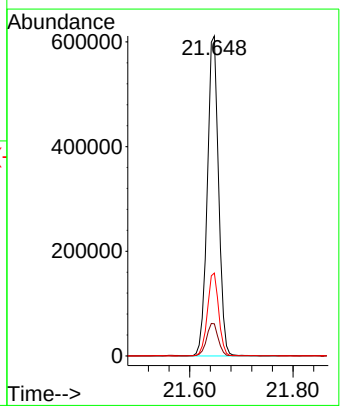
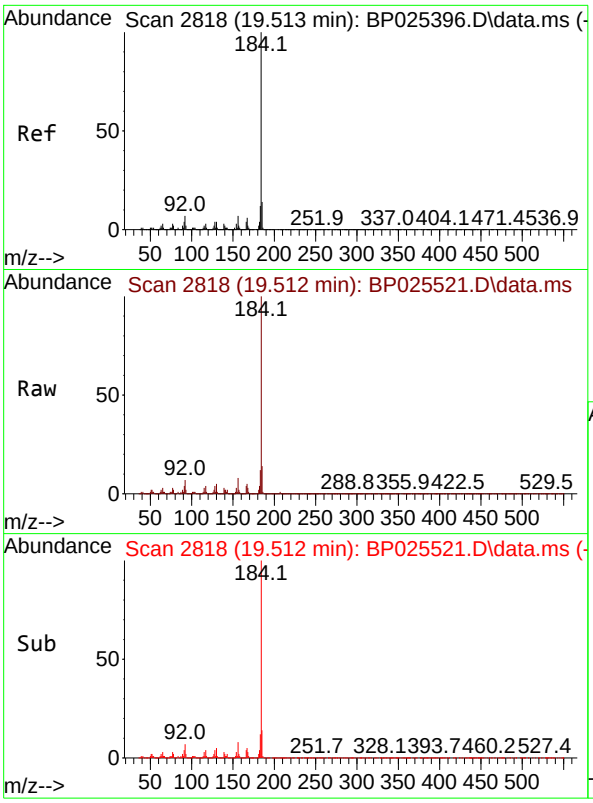


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.648 min Scan# 3181
Delta R.T. -0.000 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:240 Resp: 922591

Ion	Ratio	Lower	Upper
240	100		
120	10.1	8.9	13.3
236	25.9	19.8	29.8

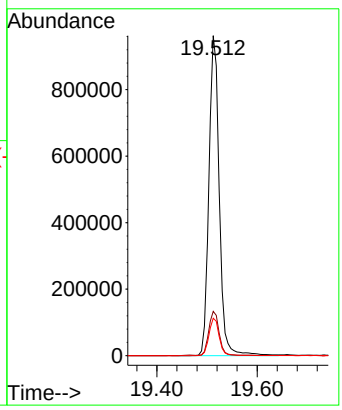




#77
Benzidine
Concen: 43.896 ng
RT: 19.512 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:184 Resp: 138211

Ion	Ratio	Lower	Upper
184	100		
185	13.8	11.5	17.3
183	11.7	9.4	14.2



Instrument :
BNA_P
ClientSampleId :
38M-NMSD

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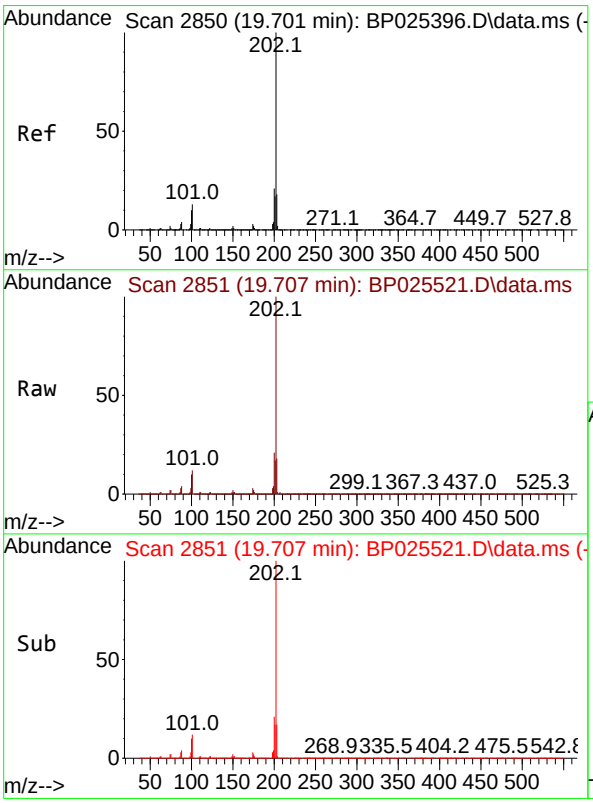
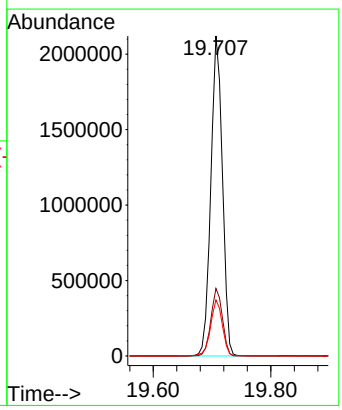
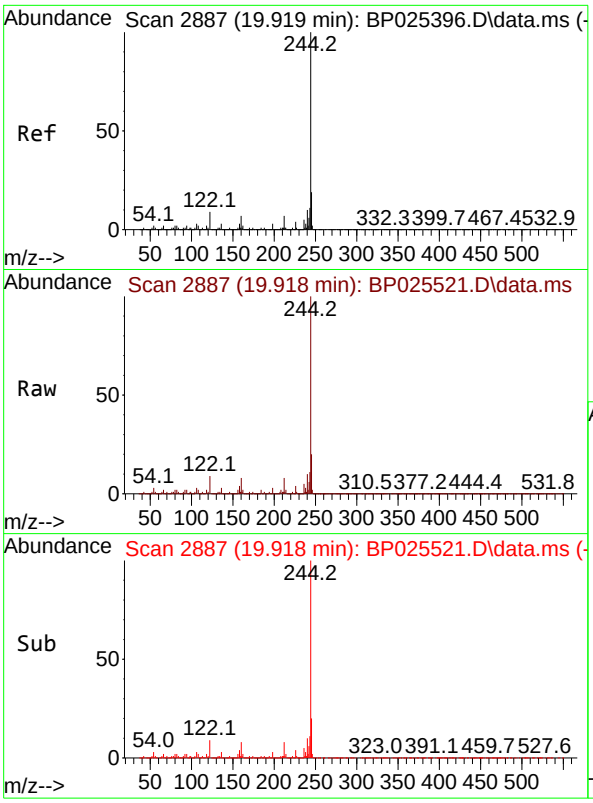


#78
Pyrene
Concen: 48.260 ng
RT: 19.707 min Scan# 2851
Delta R.T. 0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:202 Resp: 2893940

Ion	Ratio	Lower	Upper
202	100		
200	21.1	16.9	25.3
203	17.5	14.2	21.2





#79
Terphenyl-d14
Concen: 65.486 ng
RT: 19.918 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:244 Resp: 330224

Ion	Ratio	Lower	Upper
244	100		
212	7.7	5.8	8.6
122	9.5	7.4	11.2

Instrument :
BNA_P
ClientSampleId :
38M-NMSD

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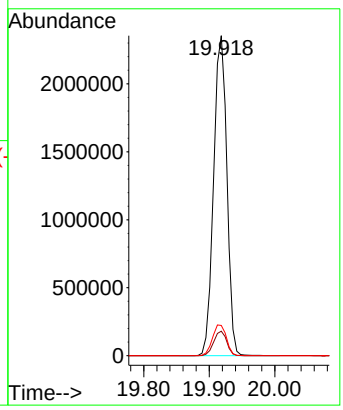
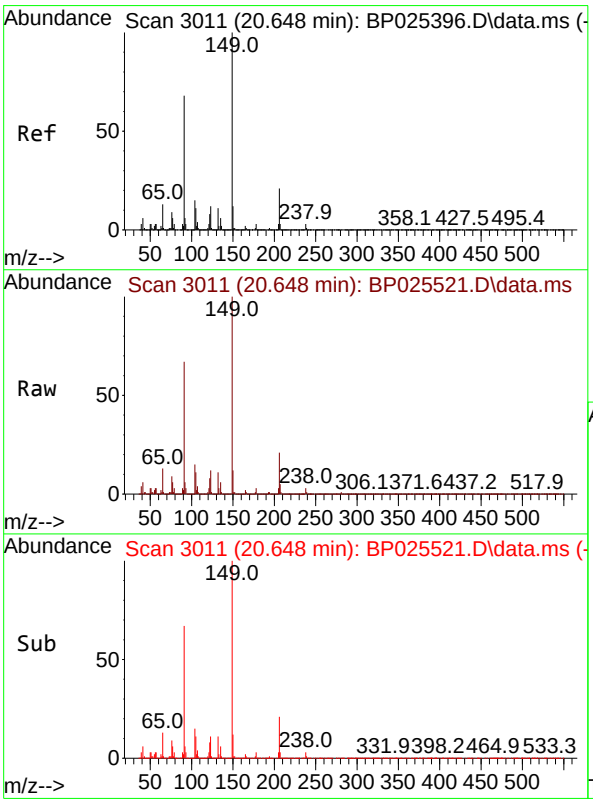
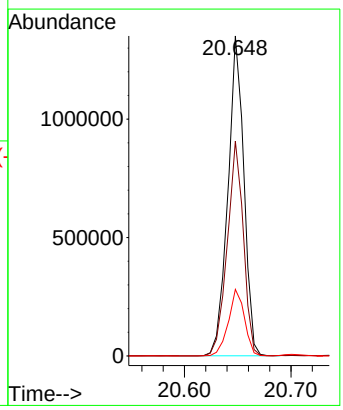


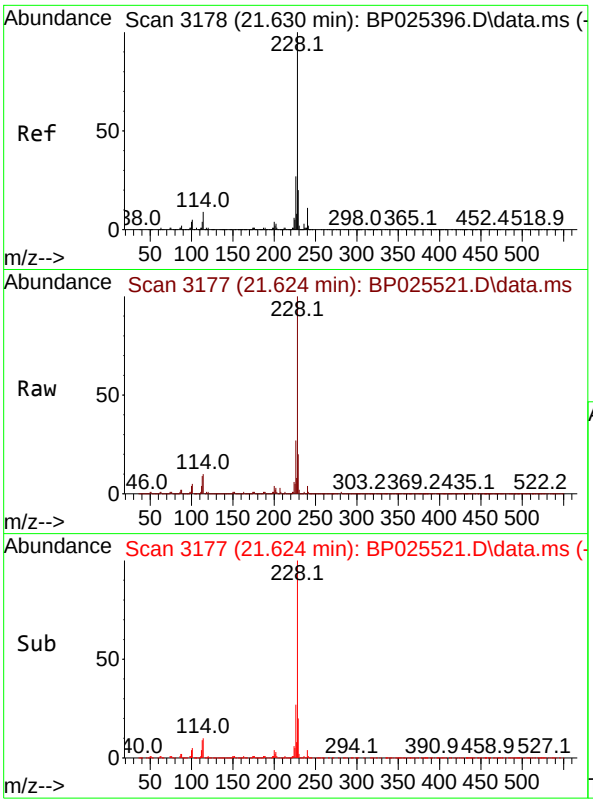


#80
Butylbenzylphthalate
Concen: 51.861 ng
RT: 20.648 min Scan# 3011
Delta R.T. -0.000 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:149 Resp: 1409430

Ion	Ratio	Lower	Upper
149	100		
91	67.1	54.2	81.2
206	20.8	16.6	24.8

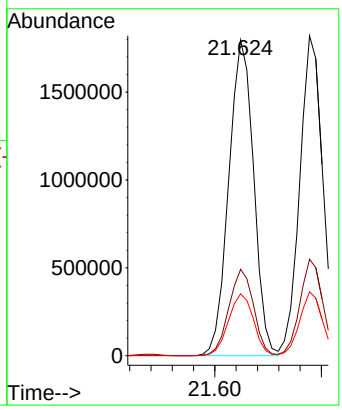




#81
Benzo(a)anthracene
Concen: 48.025 ng
RT: 21.624 min Scan# 3
Delta R.T. -0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:228 Resp: 292211

Ion	Ratio	Lower	Upper
228	100		
226	27.4	21.7	32.5
229	19.5	15.6	23.4



Instrument :
BNA_P
ClientSampleId :
38M-NMSD

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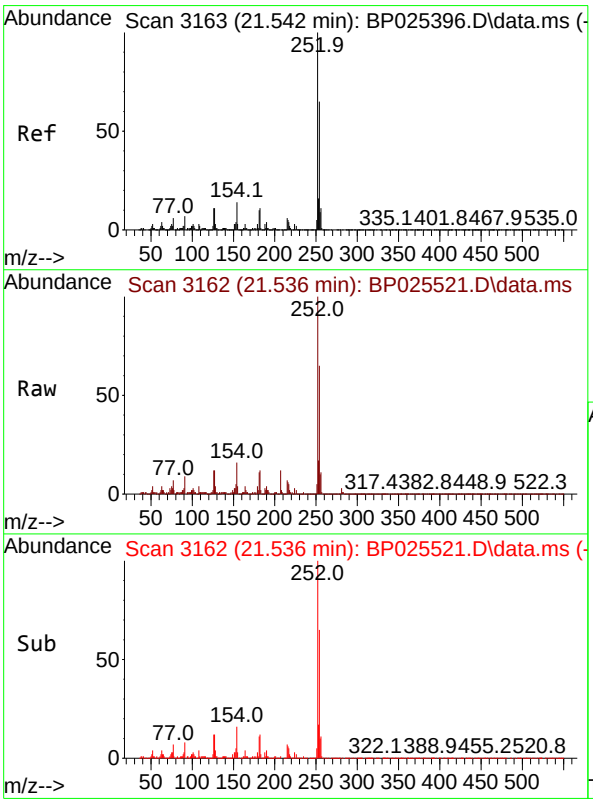
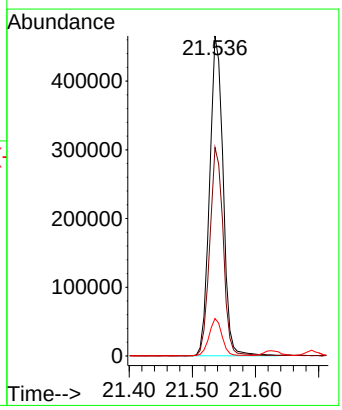
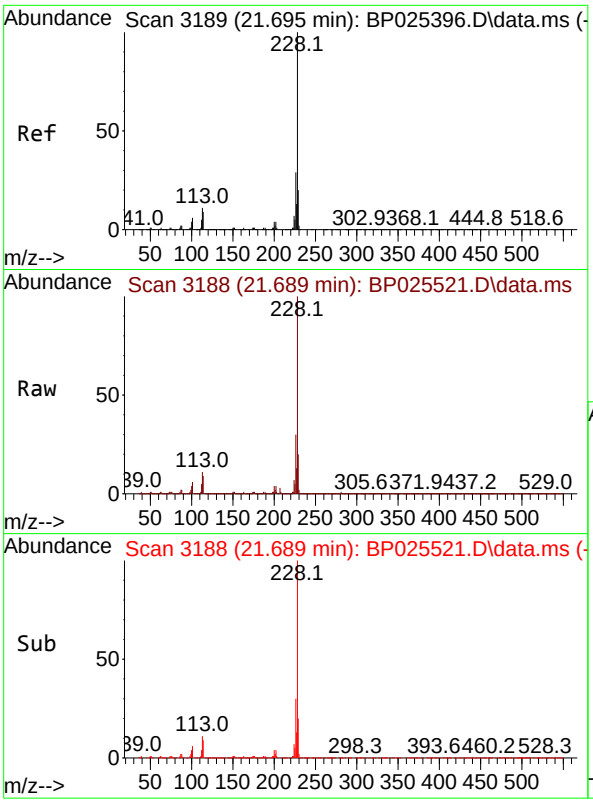


#82
3,3'-Dichlorobenzidine
Concen: 30.138 ng
RT: 21.536 min Scan# 3162
Delta R.T. -0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:252 Resp: 691173

Ion	Ratio	Lower	Upper
252	100		
254	65.2	51.8	77.6
126	11.7	9.1	13.7

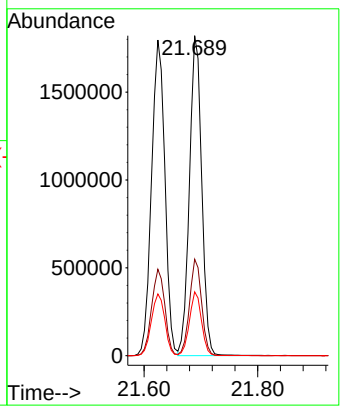




#83
Chrysene
Concen: 47.938 ng
RT: 21.689 min Scan# 3
Delta R.T. -0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:228 Resp: 273156

Ion	Ratio	Lower	Upper
228	100		
226	30.1	23.2	34.8
229	20.0	15.6	23.4



Instrument :
BNA_P
ClientSampleId :
38M-NMSD

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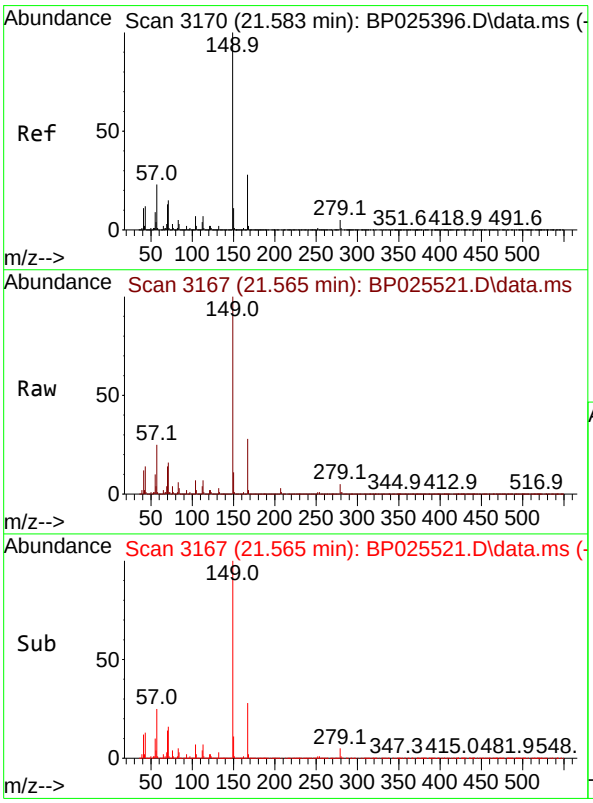
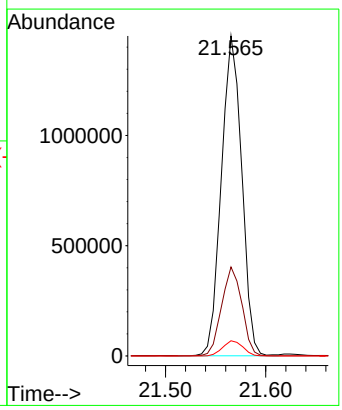
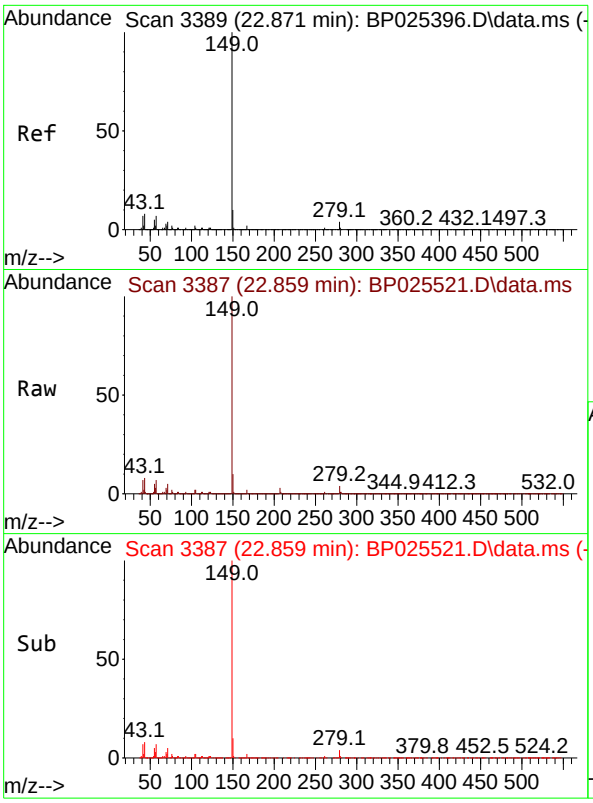


#84
Bis(2-ethylhexyl)phthalate
Concen: 51.233 ng
RT: 21.565 min Scan# 3167
Delta R.T. -0.018 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:149 Resp: 2049629

Ion	Ratio	Lower	Upper
149	100		
167	27.8	22.1	33.1
279	4.8	3.8	5.6





#85
Di-n-octyl phthalate
Concen: 50.164 ng
RT: 22.859 min Scan# 3
Delta R.T. -0.012 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:149 Resp: 345191

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	8.5	6.3	9.5

Instrument :
BNA_P
ClientSampleId :
38M-NMSD

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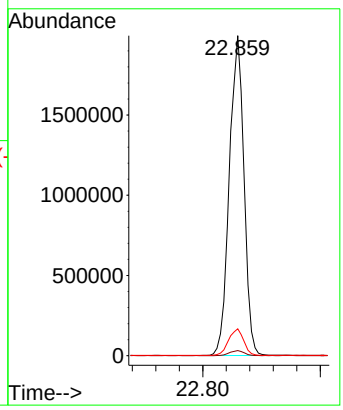
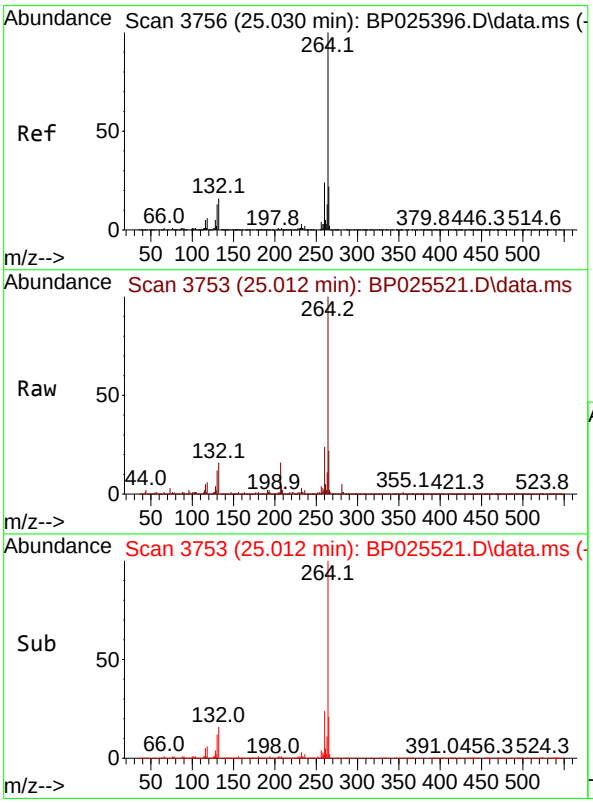
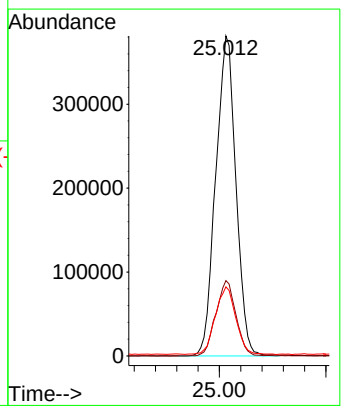


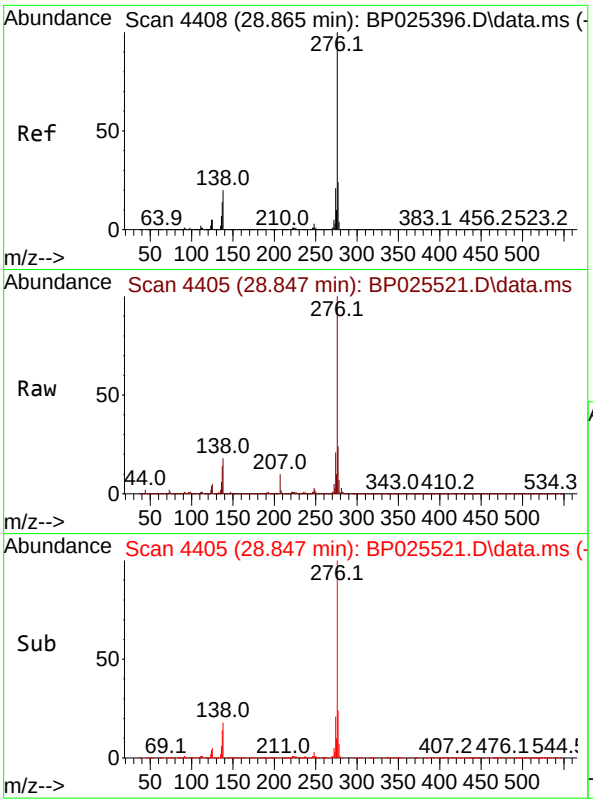


#86
Perylene-d12
Concen: 20.000 ng
RT: 25.012 min Scan# 3753
Delta R.T. -0.018 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:264 Resp: 1004402

Ion	Ratio	Lower	Upper
264	100		
260	23.5	19.3	28.9
265	21.6	17.4	26.0

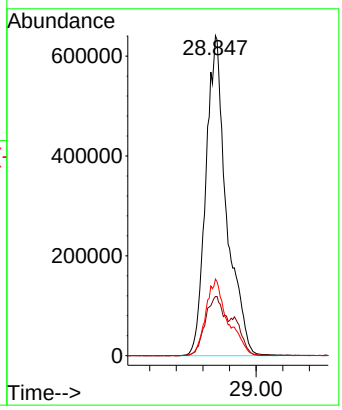




#87
Indeno(1,2,3-cd)pyrene
Concen: 46.848 ng
RT: 28.847 min Scan# 4
Delta R.T. -0.018 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:276 Resp: 345079

Ion	Ratio	Lower	Upper
276	100		
138	17.9	12.9	19.3
277	25.6	17.0	25.6



Instrument :
BNA_P
ClientSampleId :
38M-NMSD

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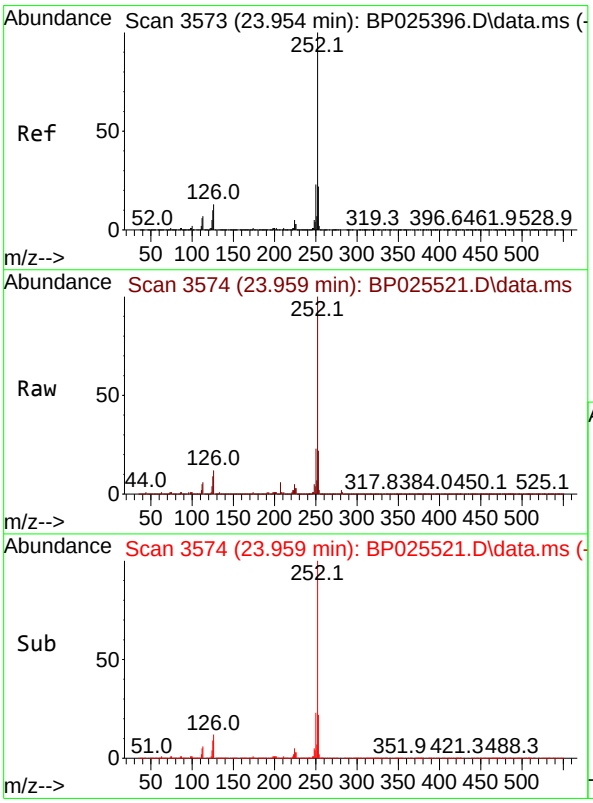
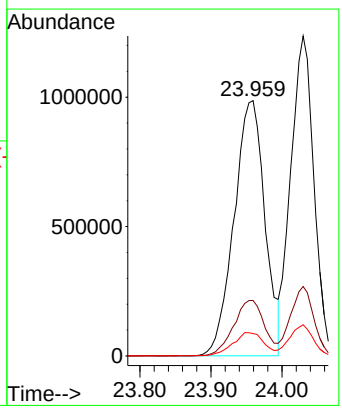
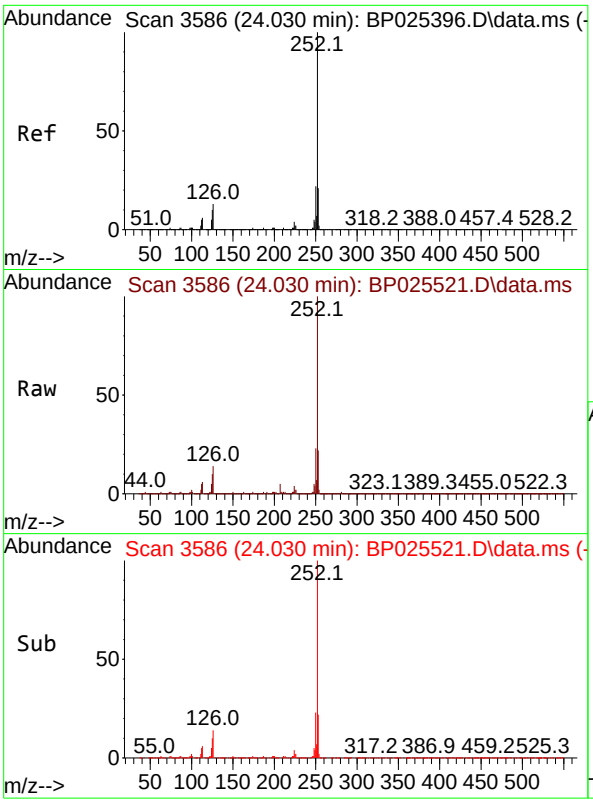


#88
Benzo(b)fluoranthene
Concen: 50.411 ng
RT: 23.959 min Scan# 3574
Delta R.T. 0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:252 Resp: 2985647

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.7	26.5
125	8.8	7.9	11.9





#89
Benzo(k)fluoranthene
Concen: 47.046 ng
RT: 24.030 min Scan# 3
Delta R.T. -0.000 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:252 Resp: 278826

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.1	25.7
125	9.8	7.8	11.6

Instrument :
BNA_P
ClientSampleId :
38M-NMSD

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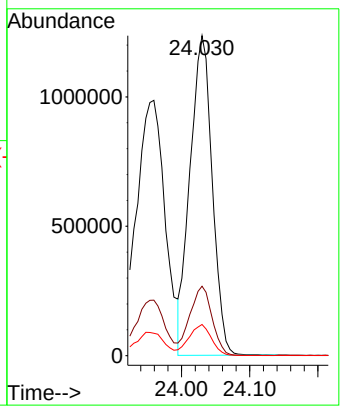
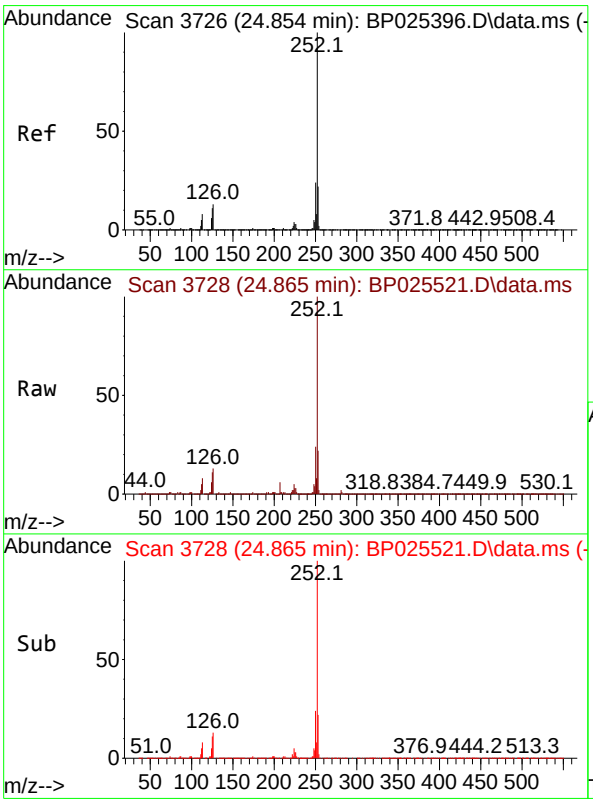
Supervised By :Jagrut Upadhyay 08/21/2025

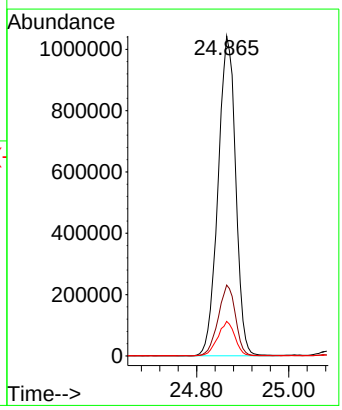


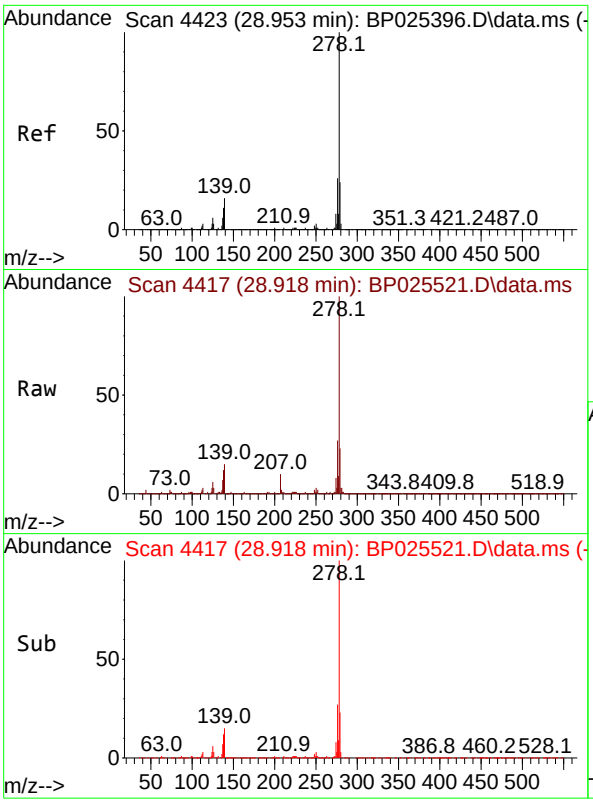


#90
Benzo(a)pyrene
Concen: 47.856 ng
RT: 24.865 min Scan# 3728
Delta R.T. 0.012 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:252 Resp: 2759047

Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.5	26.3
125	10.8	8.7	13.1

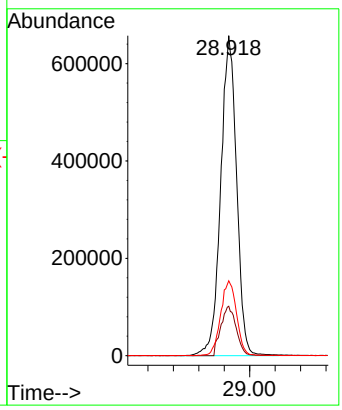




#91
Dibenzo(a,h)anthracene
Concen: 47.312 ng
RT: 28.918 min Scan# 4
Delta R.T. -0.036 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:278 Resp: 284791

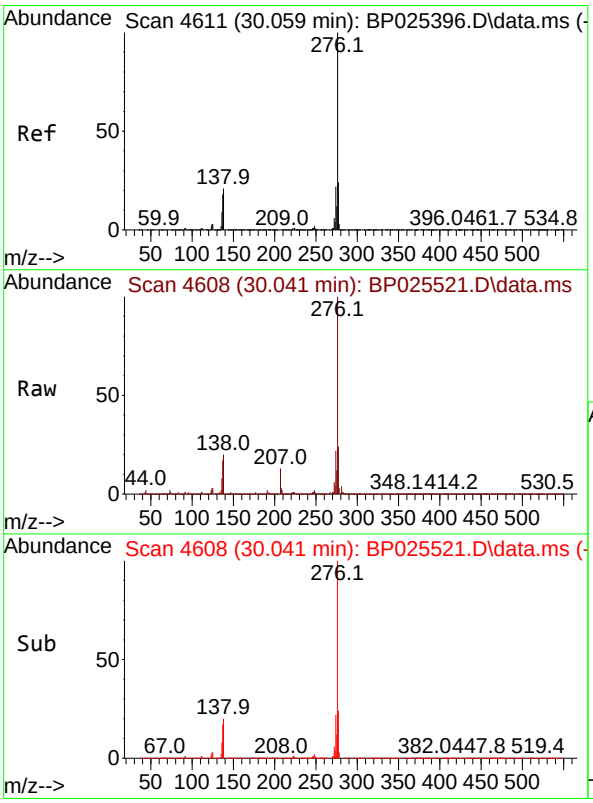
Ion	Ratio	Lower	Upper
278	100		
139	15.5	13.0	19.4
279	23.4	19.4	29.2



Instrument :
BNA_P
ClientSampleId :
38M-NMSD

Manual Integrations
APPROVED

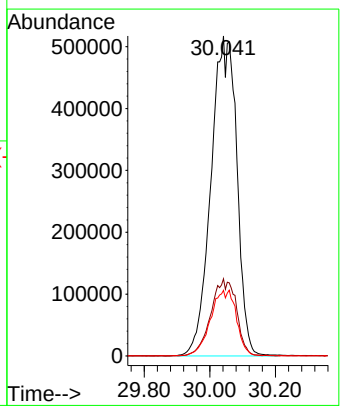
Reviewed By :Rahul Chavli 08/21/2025
Supervised By :Jagrut Upadhyay 08/21/2025



#92
Benzo(g,h,i)perylene
Concen: 47.932 ng m
RT: 30.041 min Scan# 4608
Delta R.T. -0.018 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:276 Resp: 2836174

Ion	Ratio	Lower	Upper
276	100		
277	24.1	19.4	29.0
138	20.5	16.7	25.1



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Manual Integration Report

Sequence:	BF082025	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

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Manual Integration Report

Sequence:	BF082125	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q2819-07	BF143525.D	Benzo(b)fluoranthene	Rahul	8/22/2025 8:17:55 AM	mohammad	8/22/2025 8:27:40 AM	Peak Integrated by Software
Q2819-08	BF143526.D	Benzo(b)fluoranthene	Rahul	8/22/2025 8:17:57 AM	mohammad	8/22/2025 8:27:40 AM	Peak Integrated by Software
Q2819-08	BF143526.D	Benzo(k)fluoranthene	Rahul	8/22/2025 8:17:57 AM	mohammad	8/22/2025 8:27:40 AM	Peak Integrated by Software
Q2819-10RE	BF143530.D	Benzo(b)fluoranthene	Rahul	8/22/2025 8:17:59 AM	mohammad	8/22/2025 8:27:40 AM	Peak Integrated by Software
Q2819-11	BF143531.D	Benzo(b)fluoranthene	Rahul	8/22/2025 8:18:03 AM	mohammad	8/22/2025 8:27:40 AM	Peak Integrated by Software
Q2819-01	BF143533.D	Benzo(b)fluoranthene	Rahul	8/22/2025 8:18:05 AM	mohammad	8/22/2025 8:27:40 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	BP081425	Instrument	BNA_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC005	BP025393.D	Acenaphthene	Rahul	8/15/2025 9:34:57 AM	Jagrut	8/15/2025 12:49:22 PM	Peak Integrated by Software
SSTDICC010	BP025394.D	Acenaphthene	Rahul	8/15/2025 9:34:54 AM	Jagrut	8/15/2025 12:49:24 PM	Peak Integrated by Software
SSTDICC010	BP025394.D	Benzaldehyde	Rahul	8/15/2025 9:34:54 AM	Jagrut	8/15/2025 12:49:24 PM	Peak Integrated by Software
SSTDICC010	BP025394.D	Benzoic acid	Rahul	8/15/2025 9:34:54 AM	Jagrut	8/15/2025 12:49:24 PM	Peak Integrated by Software
SSTDICC010	BP025394.D	Indeno(1,2,3-cd)pyrene	Rahul	8/15/2025 9:34:54 AM	Jagrut	8/15/2025 12:49:24 PM	Peak Integrated by Software
SSTDICC020	BP025395.D	Acenaphthene	Rahul	8/15/2025 9:34:49 AM	Jagrut	8/15/2025 12:49:27 PM	Peak Integrated by Software
SSTDICC020	BP025395.D	Benzoic acid	Rahul	8/15/2025 9:34:49 AM	Jagrut	8/15/2025 12:49:27 PM	Peak Integrated by Software
SSTDICC020	BP025395.D	Indeno(1,2,3-cd)pyrene	Rahul	8/15/2025 9:34:49 AM	Jagrut	8/15/2025 12:49:27 PM	Peak Integrated by Software
SSTDICCC040	BP025396.D	Indeno(1,2,3-cd)pyrene	Rahul	8/15/2025 9:34:47 AM	Jagrut	8/15/2025 12:49:30 PM	Peak Integrated by Software
SSTDICC050	BP025397.D	Benzo(g,h,i)perylene	Rahul	8/15/2025 9:34:43 AM	Jagrut	8/15/2025 12:49:33 PM	Peak Integrated by Software
SSTDICC050	BP025397.D	Indeno(1,2,3-cd)pyrene	Rahul	8/15/2025 9:34:43 AM	Jagrut	8/15/2025 12:49:33 PM	Peak Integrated by Software
SSTDICC080	BP025399.D	Indeno(1,2,3-cd)pyrene	Rahul	8/15/2025 9:34:40 AM	Jagrut	8/15/2025 12:49:36 PM	Peak Integrated by Software
SSTDICV040	BP025400.D	Acenaphthene	Rahul	8/15/2025 9:34:38 AM	Jagrut	8/15/2025 12:49:39 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	BP081425	Instrument	BNA_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BP025403.D	Indeno(1,2,3-cd)pyrene	Rahul	8/15/2025 9:34:33 AM	Jagrut	8/15/2025 12:49:44 PM	Peak Integrated by Software
SSTDCCC040	BP025405.D	Indeno(1,2,3-cd)pyrene	Rahul	8/15/2025 9:34:31 AM	Jagrut	8/15/2025 12:49:46 PM	Peak Integrated by Software
SSTDCCC040	BP025420.D	Acenaphthene	Rahul	8/15/2025 12:47:42 PM	Jagrut	8/15/2025 12:48:50 PM	Peak Integrated by Software
SSTDCCC040	BP025420.D	Indeno(1,2,3-cd)pyrene	Rahul	8/15/2025 12:47:42 PM	Jagrut	8/15/2025 12:48:50 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	BP081925	Instrument	BNA_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BP025487.D	Indeno(1,2,3-cd)pyrene	Rahul	8/20/2025 8:38:27 AM	Jagrut	8/20/2025 12:06:52 PM	Peak Integrated by Software
SSTDCCC040	BP025502.D	Acenaphthene	Rahul	8/20/2025 1:15:14 PM	Jagrut	8/21/2025 2:16:52 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	bp082025	Instrument	BNA_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BP025504.D	Benzoic acid	Rahul	8/21/2025 2:05:22 PM	mohammad	8/22/2025 8:27:03 AM	Peak Integrated by Software
Q2819-03MS	BP025516.D	Caprolactam	Rahul	8/21/2025 2:05:33 PM	mohammad	8/22/2025 8:27:03 AM	Peak Integrated by Software
Q2819-03MS	BP025516.D	Indeno(1,2,3-cd)pyrene	Rahul	8/21/2025 2:05:33 PM	mohammad	8/22/2025 8:27:03 AM	Peak Integrated by Software
Q2819-03MSD	BP025517.D	Indeno(1,2,3-cd)pyrene	Rahul	8/21/2025 2:05:35 PM	mohammad	8/22/2025 8:27:03 AM	Peak Integrated by Software
Q2819-17MS	BP025520.D	Indeno(1,2,3-cd)pyrene	Rahul	8/21/2025 2:05:38 PM	mohammad	8/22/2025 8:27:03 AM	Peak Integrated by Software
Q2819-17MSD	BP025521.D	Benzo(g,h,i)perylene	Rahul	8/21/2025 2:05:40 PM	mohammad	8/22/2025 8:27:03 AM	Peak Integrated by Software

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF082025

Review By	Rahul	Review On	8/21/2025 8:38:24 AM		
Supervise By	Jagrut	Supervise On	8/21/2025 11:02:57 AM		
SubDirectory	BF082025	HP Acquire Method	BNA_F	HP Processing Method	bf082025

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6857,SP6858,SP6859,SP6860,SP6861,SP6862,SP6863,SP6864
CCC	SP6860
Internal Standard/PEM	S13171,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF143476.D	20 Aug 2025 10:26	RC/JU	Ok
2	SSTDICC2.5	BF143477.D	20 Aug 2025 10:55	RC/JU	Ok
3	SSTDICC005	BF143478.D	20 Aug 2025 11:25	RC/JU	Ok
4	SSTDICC010	BF143479.D	20 Aug 2025 11:54	RC/JU	Ok
5	SSTDICC020	BF143480.D	20 Aug 2025 12:23	RC/JU	Ok
6	SSTDICCC040	BF143481.D	20 Aug 2025 12:53	RC/JU	Ok
7	SSTDICC050	BF143482.D	20 Aug 2025 13:22	RC/JU	Ok
8	SSTDICC060	BF143483.D	20 Aug 2025 13:51	RC/JU	Ok
9	SSTDICC080	BF143484.D	20 Aug 2025 14:20	RC/JU	Ok
10	SSTDICV040	BF143485.D	20 Aug 2025 15:16	RC/JU	Ok
11	PB169299BL	BF143486.D	20 Aug 2025 15:46	RC/JU	Ok
12	PB169299BS	BF143487.D	20 Aug 2025 16:15	RC/JU	Not Ok
13	PB169313BS	BF143488.D	20 Aug 2025 16:44	RC/JU	Not Ok
14	PB169313BSD	BF143489.D	20 Aug 2025 17:13	RC/JU	Not Ok
15	Q2892-12	BF143490.D	20 Aug 2025 17:43	RC/JU	Ok
16	Q2892-10	BF143491.D	20 Aug 2025 18:12	RC/JU	Ok
17	Q2892-10MS	BF143492.D	20 Aug 2025 18:41	RC/JU	Ok,M
18	Q2892-10MSD	BF143493.D	20 Aug 2025 19:10	RC/JU	Ok,M
19	Q2900-06	BF143494.D	20 Aug 2025 19:39	RC/JU	Ok
20	Q2900-07	BF143495.D	20 Aug 2025 20:08	RC/JU	Ok
21	Q2900-04	BF143496.D	20 Aug 2025 20:37	RC/JU	Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF082025

Review By	Rahul	Review On	8/21/2025 8:38:24 AM		
Supervise By	Jagrut	Supervise On	8/21/2025 11:02:57 AM		
SubDirectory	BF082025	HP Acquire Method	BNA_F	HP Processing Method	bf082025

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6857,SP6858,SP6859,SP6860,SP6861,SP6862,SP6863,SP6864
CCC	SP6860
Internal Standard/PEM	S13171,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	DFTPP	BF143497.D	20 Aug 2025 21:36	RC/JU	Ok
23	SSTDCCC040	BF143498.D	20 Aug 2025 22:05	RC/JU	Ok
24	PB169313BL	BF143499.D	20 Aug 2025 22:34	RC/JU	Not Ok
25	PB169223BS	BF143500.D	20 Aug 2025 23:03	RC/JU	Ok,M
26	PB169223BSD	BF143501.D	20 Aug 2025 23:32	RC/JU	Ok,M
27	Q2815-12	BF143502.D	21 Aug 2025 00:00	RC/JU	Ok
28	Q2900-01	BF143503.D	21 Aug 2025 00:29	RC/JU	Ok
29	Q2819-20	BF143504.D	21 Aug 2025 00:58	RC/JU	Ok
30	Q2819-14	BF143505.D	21 Aug 2025 01:27	RC/JU	Ok
31	Q2819-15	BF143506.D	21 Aug 2025 01:56	RC/JU	Ok
32	Q2819-18	BF143507.D	21 Aug 2025 02:25	RC/JU	Ok
33	Q2819-19	BF143508.D	21 Aug 2025 02:54	RC/JU	Ok
34	Q2892-06	BF143509.D	21 Aug 2025 03:23	RC/JU	Ok
35	Q2892-08	BF143510.D	21 Aug 2025 03:52	RC/JU	Ok
36	Q2900-02	BF143511.D	21 Aug 2025 04:21	RC/JU	Dilution
37	Q2900-03	BF143512.D	21 Aug 2025 04:49	RC/JU	Dilution
38	Q2900-05	BF143513.D	21 Aug 2025 05:18	RC/JU	Dilution
39	Q2815-11	BF143514.D	21 Aug 2025 05:47	RC/JU	Ok
40	Q2815-08	BF143515.D	21 Aug 2025 06:15	RC/JU	Ok
41	SSTDCCC040	BF143516.D	21 Aug 2025 06:44	RC/JU	Ok

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF082125

Review By	Rahul	Review On	8/22/2025 8:18:48 AM				
Supervise By	mohammad	Supervise On	8/22/2025 8:27:40 AM				
SubDirectory	BF082125	HP Acquire Method	BNA_F		HP Processing Method	bf082025	

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6857,SP6858,SP6859,SP6860,SP6861,SP6862,SP6863,SP6864
CCC	SP6860
Internal Standard/PEM	S13171,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF143517.D	21 Aug 2025 08:20	RC/JU	Ok
2	SSTDCCC040	BF143518.D	21 Aug 2025 09:21	RC/JU	Ok
3	PB169299BL	BF143519.D	21 Aug 2025 09:50	RC/JU	Ok
4	Q2820-24	BF143520.D	21 Aug 2025 10:20	RC/JU	Ok
5	Q2820-12	BF143521.D	21 Aug 2025 10:49	RC/JU	Ok
6	Q2900-02DL	BF143522.D	21 Aug 2025 11:18	RC/JU	Dilution
7	Q2900-03DL	BF143523.D	21 Aug 2025 11:47	RC/JU	Dilution
8	Q2900-05DL	BF143524.D	21 Aug 2025 12:17	RC/JU	Dilution
9	Q2819-07	BF143525.D	21 Aug 2025 12:46	RC/JU	Ok,M
10	Q2819-08	BF143526.D	21 Aug 2025 13:15	RC/JU	Ok,M
11	Q2900-02DL2	BF143527.D	21 Aug 2025 13:44	RC/JU	Ok
12	Q2900-03DL2	BF143528.D	21 Aug 2025 14:13	RC/JU	Ok
13	Q2900-05DL2	BF143529.D	21 Aug 2025 14:42	RC/JU	Ok
14	Q2819-10RE	BF143530.D	21 Aug 2025 15:11	RC/JU	Confirms
15	Q2819-11	BF143531.D	21 Aug 2025 15:40	RC/JU	Ok,M
16	Q2819-06	BF143532.D	21 Aug 2025 16:09	RC/JU	Ok
17	Q2819-01	BF143533.D	21 Aug 2025 16:38	RC/JU	Ok,M
18	Q2814-07	BF143534.D	21 Aug 2025 17:07	RC/JU	Ok
19	Q2815-15	BF143535.D	21 Aug 2025 17:36	RC/JU	Ok
20	Q2814-19	BF143536.D	21 Aug 2025 18:05	RC/JU	Ok
21	Q2819-13	BF143537.D	21 Aug 2025 18:34	RC/JU	Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF082125

Review By	Rahul	Review On	8/22/2025 8:18:48 AM		
Supervise By	mohammad	Supervise On	8/22/2025 8:27:40 AM		
SubDirectory	BF082125	HP Acquire Method	BNA_F	HP Processing Method	bf082025

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6857,SP6858,SP6859,SP6860,SP6861,SP6862,SP6863,SP6864
CCC	SP6860
Internal Standard/PEM	S13171,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q2819-04RE	BF143538.D	21 Aug 2025 19:03	RC/JU	Confirms
23	SSTDCCC040	BF143539.D	21 Aug 2025 19:32	RC/JU	Ok
24	DFTPP	BF143540.D	21 Aug 2025 20:02	RC/JU	Ok
25	SSTDCCC040	BF143541.D	21 Aug 2025 21:00	RC/JU	Ok
26	PB169330BL	BF143542.D	21 Aug 2025 21:58	RC/JU	Not Ok
27	PB169330BS	BF143543.D	21 Aug 2025 22:27	RC/JU	Not Ok
28	Q2903-01	BF143544.D	21 Aug 2025 22:56	RC/JU	ReRun
29	Q2903-02	BF143545.D	21 Aug 2025 23:25	RC/JU	ReRun
30	Q2903-03	BF143546.D	21 Aug 2025 23:54	RC/JU	ReRun
31	Q2903-04	BF143547.D	22 Aug 2025 00:23	RC/JU	ReRun
32	Q2903-05MS	BF143548.D	22 Aug 2025 00:52	RC/JU	Not Ok
33	Q2903-06MSD	BF143549.D	22 Aug 2025 01:21	RC/JU	Not Ok
34	Q2903-07	BF143550.D	22 Aug 2025 01:51	RC/JU	ReRun
35	Q2903-08	BF143551.D	22 Aug 2025 02:19	RC/JU	ReRun
36	Q2903-09	BF143552.D	22 Aug 2025 02:49	RC/JU	ReRun
37	Q2903-10	BF143553.D	22 Aug 2025 03:18	RC/JU	ReRun
38	Q2903-11	BF143554.D	22 Aug 2025 03:46	RC/JU	Dilution
39	Q2903-12	BF143555.D	22 Aug 2025 04:16	RC/JU	ReRun
40	Q2915-01	BF143556.D	22 Aug 2025 04:45	RC/JU	ReRun
41	Q2915-01MS	BF143557.D	22 Aug 2025 05:14	RC/JU	Not Ok
42	Q2915-01MSD	BF143558.D	22 Aug 2025 05:43	RC/JU	Not Ok
43	Q2915-03	BF143559.D	22 Aug 2025 06:11	RC/JU	ReRun
44	Q2892-04	BF143560.D	22 Aug 2025 06:40	RC/JU	ReRun

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF082125

Review By	Rahul	Review On	8/22/2025 8:18:48 AM				
Supervise By	mohammad	Supervise On	8/22/2025 8:27:40 AM				
SubDirectory	BF082125	HP Acquire Method	BNA_F		HP Processing Method	bf082025	

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6857,SP6858,SP6859,SP6860,SP6861,SP6862,SP6863,SP6864
CCC	SP6860
Internal Standard/PEM	S13171,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

45	Q2892-02	BF143561.D	22 Aug 2025 07:09	RC/JU	ReRun

M : Manual Integration

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Instrument ID: BNA_P

Daily Analysis Runlog For Sequence/QCBatch ID # BP081425

Review By	Rahul	Review On	8/15/2025 9:35:16 AM		
Supervise By	Jagrut	Supervise On	8/15/2025 3:48:12 PM		
SubDirectory	BP081425	HP Acquire Method	BNA_P	HP Processing Method	bp081425

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6833,SP6834,SP6835,SP6836,SP6837,SP6838,SP6839,SP6840
CCC	SP6836
Internal Standard/PEM	S13170,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BP025390.D	14 Aug 2025 10:30	CG/JU	Ok
2	SSTDCCC040	BP025391.D	14 Aug 2025 11:52	CG/JU	Not Ok
3	SSTDICC2.5	BP025392.D	14 Aug 2025 12:33	CG/JU	Ok
4	SSTDICC005	BP025393.D	14 Aug 2025 13:15	CG/JU	Ok,M
5	SSTDICC010	BP025394.D	14 Aug 2025 13:56	CG/JU	Ok,M
6	SSTDICC020	BP025395.D	14 Aug 2025 14:38	CG/JU	Ok,M
7	SSTDICCC040	BP025396.D	14 Aug 2025 15:19	CG/JU	Ok,M
8	SSTDICC050	BP025397.D	14 Aug 2025 16:01	CG/JU	Ok,M
9	SSTDICC060	BP025398.D	14 Aug 2025 16:42	CG/JU	Ok
10	SSTDICC080	BP025399.D	14 Aug 2025 17:24	CG/JU	Ok,M
11	SSTDICV040	BP025400.D	14 Aug 2025 18:05	CG/JU	Ok,M
12	PB169200TB	BP025401.D	14 Aug 2025 19:28	CG/JU	Ok
13	PB169210BS	BP025402.D	14 Aug 2025 20:10	CG/JU	Ok,M
14	SSTDCCC040	BP025403.D	14 Aug 2025 20:51	CG/JU	Ok,M
15	DFTPP	BP025404.D	14 Aug 2025 22:14	CG/JU	Ok
16	SSTDCCC040	BP025405.D	14 Aug 2025 22:56	CG/JU	Ok,M
17	PB169228BL	BP025406.D	14 Aug 2025 23:37	CG/JU	Ok
18	PB169228BS	BP025407.D	15 Aug 2025 00:18	CG/JU	Ok,M
19	Q2820-10	BP025408.D	15 Aug 2025 01:00	CG/JU	Ok
20	Q2820-11	BP025409.D	15 Aug 2025 01:41	CG/JU	Ok
21	Q2820-21	BP025410.D	15 Aug 2025 02:22	CG/JU	ReRun

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Instrument ID: BNA_P

Daily Analysis Runlog For Sequence/QCBatch ID # BP081425

Review By	Rahul	Review On	8/15/2025 9:35:16 AM		
Supervise By	Jagrut	Supervise On	8/15/2025 3:48:12 PM		
SubDirectory	BP081425	HP Acquire Method	BNA_P	HP Processing Method	bp081425

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6833,SP6834,SP6835,SP6836,SP6837,SP6838,SP6839,SP6840
CCC	SP6836
Internal Standard/PEM	S13170,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q2820-22	BP025411.D	15 Aug 2025 03:03	CG/JU	ReRun
23	Q2820-14	BP025412.D	15 Aug 2025 03:45	CG/JU	Ok
24	Q2820-16	BP025413.D	15 Aug 2025 04:26	CG/JU	Ok
25	Q2820-17	BP025414.D	15 Aug 2025 05:07	CG/JU	Ok
26	Q2820-17MS	BP025415.D	15 Aug 2025 05:48	CG/JU	Ok,M
27	Q2820-17MSD	BP025416.D	15 Aug 2025 06:29	CG/JU	Ok,M
28	Q2820-18	BP025417.D	15 Aug 2025 07:10	CG/JU	Ok
29	Q2820-19	BP025418.D	15 Aug 2025 07:51	CG/JU	ReRun
30	Q2820-20	BP025419.D	15 Aug 2025 08:32	CG/JU	ReRun
31	SSTDCCC040	BP025420.D	15 Aug 2025 09:13	CG/JU	Ok,M

M : Manual Integration

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Instrument ID: BNA_P

Daily Analysis Runlog For Sequence/QCBatch ID # BP081925

Review By	Rahul	Review On	8/20/2025 11:11:45 AM		
Supervise By	Jagrut	Supervise On	8/20/2025 12:07:50 PM		
SubDirectory	BP081925	HP Acquire Method	BNA_P	HP Processing Method	bp081425

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6833,SP6834,SP6835,SP6836,SP6837,SP6838,SP6839,SP6840
CCC	SP6836
Internal Standard/PEM	S13171,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BP025469.D	19 Aug 2025 10:03	CG/JU	Ok
2	SSTDCCC040	BP025470.D	19 Aug 2025 10:44	CG/JU	Ok
3	PB169244BL	BP025471.D	19 Aug 2025 11:25	CG/JU	Ok
4	PB169244BS	BP025472.D	19 Aug 2025 12:06	CG/JU	Ok,M
5	PB169244BSD	BP025473.D	19 Aug 2025 12:47	CG/JU	Ok,M
6	Q2815-18	BP025474.D	19 Aug 2025 13:29	CG/JU	Ok
7	Q2815-19	BP025475.D	19 Aug 2025 14:10	CG/JU	Ok
8	Q2815-20	BP025476.D	19 Aug 2025 14:51	CG/JU	Ok
9	Q2815-21	BP025477.D	19 Aug 2025 15:32	CG/JU	Ok
10	Q2815-22	BP025478.D	19 Aug 2025 16:13	CG/JU	Ok
11	Q2815-23	BP025479.D	19 Aug 2025 16:55	CG/JU	Ok
12	Q2815-26	BP025480.D	19 Aug 2025 17:36	CG/JU	Ok
13	Q2820-19RE	BP025481.D	19 Aug 2025 18:17	CG/JU	Confirms
14	Q2820-20RE	BP025482.D	19 Aug 2025 18:58	CG/JU	Confirms
15	Q2815-13	BP025483.D	19 Aug 2025 19:39	CG/JU	Ok
16	Q2815-14	BP025484.D	19 Aug 2025 20:21	CG/JU	Ok
17	SSTDCCC040	BP025485.D	19 Aug 2025 21:43	CG/JU	Ok
18	DFTPP	BP025486.D	19 Aug 2025 23:05	CG/JU	Ok
19	SSTDCCC040	BP025487.D	19 Aug 2025 23:46	CG/JU	Ok,M
20	PB169242BL	BP025488.D	20 Aug 2025 00:27	CG/JU	Ok
21	PB169242BS	BP025489.D	20 Aug 2025 01:07	CG/JU	Ok

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Instrument ID: BNA_P

Daily Analysis Runlog For Sequence/QCBatch ID # BP081925

Review By	Rahul	Review On	8/20/2025 11:11:45 AM				
Supervise By	Jagrut	Supervise On	8/20/2025 12:07:50 PM				
SubDirectory	BP081925	HP Acquire Method	BNA_P	HP Processing Method	bp081425		

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6833,SP6834,SP6835,SP6836,SP6837,SP6838,SP6839,SP6840
CCC	SP6836
Internal Standard/PEM	S13171,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q2870-04	BP025490.D	20 Aug 2025 01:48	CG/JU	Ok
23	Q2871-01	BP025491.D	20 Aug 2025 02:29	CG/JU	Ok
24	Q2870-01	BP025492.D	20 Aug 2025 03:10	CG/JU	Ok
25	Q2871-04	BP025493.D	20 Aug 2025 03:51	CG/JU	Ok
26	Q2871-07	BP025494.D	20 Aug 2025 04:32	CG/JU	Ok
27	Q2873-04	BP025495.D	20 Aug 2025 05:13	CG/JU	Ok
28	Q2825-01	BP025496.D	20 Aug 2025 05:54	CG/JU	Ok
29	Q2872-01	BP025497.D	20 Aug 2025 06:35	CG/JU	Ok
30	Q2815-17	BP025498.D	20 Aug 2025 07:16	CG/JU	Ok
31	Q2815-16	BP025499.D	20 Aug 2025 07:57	CG/JU	Ok
32	Q2819-05	BP025500.D	20 Aug 2025 08:38	CG/JU	Ok
33	Q2820-13	BP025501.D	20 Aug 2025 09:19	CG/JU	Ok
34	SSTDCCC040	BP025502.D	20 Aug 2025 10:41	CG/JU	Ok,M

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Instrument ID: BNA_P

Daily Analysis Runlog For Sequence/QCBatch ID # BP082025

Review By	Rahul	Review On	8/21/2025 3:04:18 PM		
Supervise By	mohammad	Supervise On	8/22/2025 8:27:03 AM		
SubDirectory	BP082025	HP Acquire Method	BNA_P	HP Processing Method	bp081425

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6833,SP6834,SP6835,SP6836,SP6837,SP6838,SP6839,SP6840
CCC	SP6836
Internal Standard/PEM	S13171,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BP025503.D	20 Aug 2025 11:24	CG/JU	Ok
2	SSTDCCC040	BP025504.D	20 Aug 2025 12:05	CG/JU	Ok,M
3	PB169259BL	BP025505.D	20 Aug 2025 12:46	CG/JU	Not Ok
4	Q2888-01	BP025506.D	20 Aug 2025 13:30	CG/JU	Ok,M
5	Q2884-03	BP025507.D	20 Aug 2025 14:12	CG/JU	Ok
6	Q2884-01	BP025508.D	20 Aug 2025 14:53	CG/JU	Ok
7	Q2865-02	BP025509.D	20 Aug 2025 15:34	CG/JU	Ok,M
8	Q2889-01	BP025510.D	20 Aug 2025 16:15	CG/JU	Ok,M
9	DFTPP	BP025511.D	20 Aug 2025 17:04	CG/JU	Ok
10	SSTDCCC040	BP025512.D	20 Aug 2025 18:27	CG/JU	Ok
11	PB169259BL	BP025513.D	20 Aug 2025 19:08	CG/JU	Ok
12	PB169259BS	BP025514.D	20 Aug 2025 19:49	CG/JU	Ok
13	Q2819-03	BP025515.D	20 Aug 2025 20:30	CG/JU	Ok
14	Q2819-03MS	BP025516.D	20 Aug 2025 21:11	CG/JU	Ok,M
15	Q2819-03MSD	BP025517.D	20 Aug 2025 21:52	CG/JU	Ok,M
16	Q2819-09	BP025518.D	20 Aug 2025 22:32	CG/JU	Ok
17	Q2819-17	BP025519.D	20 Aug 2025 23:13	CG/JU	Ok
18	Q2819-17MS	BP025520.D	20 Aug 2025 23:54	CG/JU	Ok,M
19	Q2819-17MSD	BP025521.D	21 Aug 2025 00:35	CG/JU	Ok,M
20	Q2814-18RE	BP025522.D	21 Aug 2025 01:15	CG/JU	Confirms
21	Q2820-23	BP025523.D	21 Aug 2025 01:56	CG/JU	Ok

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Instrument ID: BNA_P

Daily Analysis Runlog For Sequence/QCBatch ID # BP082025

Review By	Rahul	Review On	8/21/2025 3:04:18 PM		
Supervise By	mohammad	Supervise On	8/22/2025 8:27:03 AM		
SubDirectory	BP082025	HP Acquire Method	BNA_P	HP Processing Method	bp081425

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6833,SP6834,SP6835,SP6836,SP6837,SP6838,SP6839,SP6840
CCC	SP6836
Internal Standard/PEM	S13171,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q2819-02	BP025524.D	21 Aug 2025 02:37	CG/JU	Ok
23	Q2815-10	BP025525.D	21 Aug 2025 03:18	CG/JU	Ok
24	SSTDCCC040	BP025526.D	21 Aug 2025 03:59	CG/JU	Ok
25	DFTPP	BP025527.D	21 Aug 2025 06:01	CG/JU	Ok
26	SSTDCCC040	BP025528.D	21 Aug 2025 06:42	CG/JU	Ok
27	PB169285BL	BP025529.D	21 Aug 2025 07:23	CG/JU	Ok
28	PB169285BS	BP025530.D	21 Aug 2025 08:03	CG/JU	Ok,M
29	Q2873-01	BP025531.D	21 Aug 2025 08:44	CG/JU	Ok
30	Q2873-01MS	BP025532.D	21 Aug 2025 09:25	CG/JU	Ok,M
31	Q2873-01MSD	BP025533.D	21 Aug 2025 10:06	CG/JU	Ok,M
32	Q2819-10	BP025534.D	21 Aug 2025 10:50	CG/JU	ReRun
33	Q2819-11	BP025535.D	21 Aug 2025 11:31	CG/JU	ReRun
34	Q2819-12	BP025536.D	21 Aug 2025 12:12	CG/JU	Ok
35	Q2832-09	BP025537.D	21 Aug 2025 12:53	CG/JU	Ok
36	Q2897-01	BP025538.D	21 Aug 2025 13:34	CG/JU	Ok,M
37	Q2819-04	BP025539.D	21 Aug 2025 14:15	CG/JU	ReRun
38	Q2819-16	BP025540.D	21 Aug 2025 14:56	CG/JU	Ok
39	Q2820-15	BP025541.D	21 Aug 2025 15:37	CG/JU	Ok
40	SSTDCCC040	BP025542.D	21 Aug 2025 17:11	CG/JU	Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF082025

Review By	Rahul	Review On	8/21/2025 8:38:24 AM		
Supervise By	Jagrut	Supervise On	8/21/2025 11:02:57 AM		
SubDirectory	BF082025	HP Acquire Method	BNA_F	HP Processing Method	bf082025

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6857,SP6858,SP6859,SP6860,SP6861,SP6862,SP6863,SP6864
CCC	SP6860
Internal Standard/PEM	S13171,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF143476.D	20 Aug 2025 10:26		RC/JU	Ok
2	SSTDICC2.5	SSTDICC2.5	BF143477.D	20 Aug 2025 10:55		RC/JU	Ok
3	SSTDICC005	SSTDICC005	BF143478.D	20 Aug 2025 11:25		RC/JU	Ok
4	SSTDICC010	SSTDICC010	BF143479.D	20 Aug 2025 11:54		RC/JU	Ok
5	SSTDICC020	SSTDICC020	BF143480.D	20 Aug 2025 12:23	compounds #32,41,54 kept on LR	RC/JU	Ok
6	SSTDICCC040	SSTDICCC040	BF143481.D	20 Aug 2025 12:53	Benzidine failed in the Calibration Method.	RC/JU	Ok
7	SSTDICC050	SSTDICC050	BF143482.D	20 Aug 2025 13:22		RC/JU	Ok
8	SSTDICC060	SSTDICC060	BF143483.D	20 Aug 2025 13:51		RC/JU	Ok
9	SSTDICC080	SSTDICC080	BF143484.D	20 Aug 2025 14:20	Compound #9 revoved from 80PPM	RC/JU	Ok
10	SSTDICV040	ICVBF082025	BF143485.D	20 Aug 2025 15:16		RC/JU	Ok
11	PB169299BL	PB169299BL	BF143486.D	20 Aug 2025 15:46		RC/JU	Ok
12	PB169299BS	PB169299BS	BF143487.D	20 Aug 2025 16:15	Recovery is low for compound #3,3-Dichlorobenzidine	RC/JU	Not Ok
13	PB169313BS	PB169313BS	BF143488.D	20 Aug 2025 16:44	Benzidine failed in the Calibration Method.	RC/JU	Not Ok
14	PB169313BSD	PB169313BSD	BF143489.D	20 Aug 2025 17:13	Benzidine failed in the Calibration Method. ,Recovery is low for compound #3,3-Dichlorobenzidine	RC/JU	Not Ok
15	Q2892-12	FRONT-1-FLOOR-F	BF143490.D	20 Aug 2025 17:43		RC/JU	Ok
16	Q2892-10	3-FLOOR-SOUTH-E	BF143491.D	20 Aug 2025 18:12		RC/JU	Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF082025

Review By	Rahul	Review On	8/21/2025 8:38:24 AM		
Supervise By	Jagrut	Supervise On	8/21/2025 11:02:57 AM		
SubDirectory	BF082025	HP Acquire Method	BNA_F	HP Processing Method	bf082025

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6857,SP6858,SP6859,SP6860,SP6861,SP6862,SP6863,SP6864
CCC	SP6860
Internal Standard/PEM	S13171,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

17	Q2892-10MS	3-FLOOR-SOUTH-EMS	BF143492.D	20 Aug 2025 18:41		RC/JU	Ok,M
18	Q2892-10MSD	3-FLOOR-SOUTH-EMS	BF143493.D	20 Aug 2025 19:10		RC/JU	Ok,M
19	Q2900-06	MW-17C-081825	BF143494.D	20 Aug 2025 19:39		RC/JU	Ok
20	Q2900-07	MW-11B-081825	BF143495.D	20 Aug 2025 20:08		RC/JU	Ok
21	Q2900-04	MW-17B-081825	BF143496.D	20 Aug 2025 20:37		RC/JU	Ok
22	DFTPP	DFTPP	BF143497.D	20 Aug 2025 21:36		RC/JU	Ok
23	SSTDCCC040	SSTDCCC040	BF143498.D	20 Aug 2025 22:05		RC/JU	Ok
24	PB169313BL	PB169313BL	BF143499.D	20 Aug 2025 22:34	Benzidine failed in the Calibration Method.	RC/JU	Not Ok
25	PB169223BS	PB169223BS	BF143500.D	20 Aug 2025 23:03		RC/JU	Ok,M
26	PB169223BSD	PB169223BSD	BF143501.D	20 Aug 2025 23:32		RC/JU	Ok,M
27	Q2815-12	TW-22M-S	BF143502.D	21 Aug 2025 00:00		RC/JU	Ok
28	Q2900-01	MN-9C-081825	BF143503.D	21 Aug 2025 00:29		RC/JU	Ok
29	Q2819-20	82H-E	BF143504.D	21 Aug 2025 00:58		RC/JU	Ok
30	Q2819-14	17M-W	BF143505.D	21 Aug 2025 01:27		RC/JU	Ok
31	Q2819-15	17M-N	BF143506.D	21 Aug 2025 01:56		RC/JU	Ok
32	Q2819-18	38M-W	BF143507.D	21 Aug 2025 02:25		RC/JU	Ok
33	Q2819-19	38M-E	BF143508.D	21 Aug 2025 02:54		RC/JU	Ok
34	Q2892-06	BACK-1-FLOOR-CENT	BF143509.D	21 Aug 2025 03:23		RC/JU	Ok
35	Q2892-08	3-FLOOR-NORTH-D	BF143510.D	21 Aug 2025 03:52		RC/JU	Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF082025

Review By	Rahul	Review On	8/21/2025 8:38:24 AM		
Supervise By	Jagrut	Supervise On	8/21/2025 11:02:57 AM		
SubDirectory	BF082025	HP Acquire Method	BNA_F	HP Processing Method	bf082025

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6857,SP6858,SP6859,SP6860,SP6861,SP6862,SP6863,SP6864
CCC	SP6860
Internal Standard/PEM	S13171,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

36	Q2900-02	MN-12C-081825	BF143511.D	21 Aug 2025 04:21	Internal standard fail and need 20X then decide further dilution.	RC/JU	Dilution
37	Q2900-03	DUP-01-081825	BF143512.D	21 Aug 2025 04:49	Internal standard fail and need 20X then decide further dilution.	RC/JU	Dilution
38	Q2900-05	MW-11C-081825	BF143513.D	21 Aug 2025 05:18	Internal standard fail and need 20X then decide further dilution.	RC/JU	Dilution
39	Q2815-11	TW-22M-W	BF143514.D	21 Aug 2025 05:47		RC/JU	Ok
40	Q2815-08	TW-88H-N	BF143515.D	21 Aug 2025 06:15		RC/JU	Ok
41	SSTDCCC040	SSTDCCC040EC	BF143516.D	21 Aug 2025 06:44		RC/JU	Ok

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF082125

Review By	Rahul	Review On	8/22/2025 8:18:48 AM		
Supervise By	mohammad	Supervise On	8/22/2025 8:27:40 AM		
SubDirectory	BF082125	HP Acquire Method	BNA_F	HP Processing Method	bf082025

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6857,SP6858,SP6859,SP6860,SP6861,SP6862,SP6863,SP6864
CCC	SP6860
Internal Standard/PEM	S13171,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF143517.D	21 Aug 2025 08:20		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF143518.D	21 Aug 2025 09:21		RC/JU	Ok
3	PB169299BL	PB169299BL	BF143519.D	21 Aug 2025 09:50		RC/JU	Ok
4	Q2820-24	22M-S	BF143520.D	21 Aug 2025 10:20		RC/JU	Ok
5	Q2820-12	10PC-S	BF143521.D	21 Aug 2025 10:49		RC/JU	Ok
6	Q2900-02DL	MN-12C-081825DL	BF143522.D	21 Aug 2025 11:18	Need 5X further Dilution	RC/JU	Dilution
7	Q2900-03DL	DUP-01-081825DL	BF143523.D	21 Aug 2025 11:47	Need 5X further Dilution	RC/JU	Dilution
8	Q2900-05DL	MW-11C-081825DL	BF143524.D	21 Aug 2025 12:17	Need 2X further Dilution	RC/JU	Dilution
9	Q2819-07	11M-N	BF143525.D	21 Aug 2025 12:46		RC/JU	Ok,M
10	Q2819-08	11M-E	BF143526.D	21 Aug 2025 13:15		RC/JU	Ok,M
11	Q2900-02DL2	MN-12C-081825DL2	BF143527.D	21 Aug 2025 13:44		RC/JU	Ok
12	Q2900-03DL2	DUP-01-081825DL2	BF143528.D	21 Aug 2025 14:13		RC/JU	Ok
13	Q2900-05DL2	MW-11C-081825DL2	BF143529.D	21 Aug 2025 14:42		RC/JU	Ok
14	Q2819-10RE	84SB-SRE	BF143530.D	21 Aug 2025 15:11	Surrogate Fail	RC/JU	Confirms
15	Q2819-11	84SB-W	BF143531.D	21 Aug 2025 15:40		RC/JU	Ok,M
16	Q2819-06	11M-S	BF143532.D	21 Aug 2025 16:09		RC/JU	Ok
17	Q2819-01	22BP-N	BF143533.D	21 Aug 2025 16:38		RC/JU	Ok,M
18	Q2814-07	TW-82H-W	BF143534.D	21 Aug 2025 17:07		RC/JU	Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF082125

Review By	Rahul	Review On	8/22/2025 8:18:48 AM		
Supervise By	mohammad	Supervise On	8/22/2025 8:27:40 AM		
SubDirectory	BF082125	HP Acquire Method	BNA_F	HP Processing Method	bf082025

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6857,SP6858,SP6859,SP6860,SP6861,SP6862,SP6863,SP6864
CCC	SP6860
Internal Standard/PEM	S13171,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q2815-15	TW-17M-E	BF143535.D	21 Aug 2025 17:36		RC/JU	Ok
20	Q2814-19	TW-518R-E	BF143536.D	21 Aug 2025 18:05		RC/JU	Ok
21	Q2819-13	17M-E	BF143537.D	21 Aug 2025 18:34		RC/JU	Ok
22	Q2819-04RE	22BP-SRE	BF143538.D	21 Aug 2025 19:03	Surrogate fail.	RC/JU	Confirms
23	SSTDCCC040	SSTDCCC040EC	BF143539.D	21 Aug 2025 19:32	CCC fail for comp#70 from high side	RC/JU	Ok
24	DFTPP	DFTPP	BF143540.D	21 Aug 2025 20:02		RC/JU	Ok
25	SSTDCCC040	SSTDCCC040	BF143541.D	21 Aug 2025 21:00	CCC fail high for compound#9,69,70,74 & CCC fail low for compound # 78,79,87,91,92.	RC/JU	Ok
26	PB169330BL	PB169330BL	BF143542.D	21 Aug 2025 21:58	CCC fail low for compound # 78,79,87,91,92.	RC/JU	Not Ok
27	PB169330BS	PB169330BS	BF143543.D	21 Aug 2025 22:27	CCC fail low for compound # 78,79,87,91,92.	RC/JU	Not Ok
28	Q2903-01	MW-6A-081925	BF143544.D	21 Aug 2025 22:56	CCC fail low for compound # 78,79,87,91,92.	RC/JU	ReRun
29	Q2903-02	MW-1C-081925	BF143545.D	21 Aug 2025 23:25	CCC fail low for compound # 78,79,87,91,92.	RC/JU	ReRun
30	Q2903-03	MW-6B-081925	BF143546.D	21 Aug 2025 23:54	CCC fail low for compound # 78,79,87,91,92.	RC/JU	ReRun
31	Q2903-04	MW-1B-081925	BF143547.D	22 Aug 2025 00:23	CCC fail low for compound # 78,79,87,91,92.	RC/JU	ReRun
32	Q2903-05MS	MW-6B-081925MS	BF143548.D	22 Aug 2025 00:52	CCC fail low for compound # 78,79,87,91,92.	RC/JU	Not Ok
33	Q2903-06MSD	MW-6B-081925MSD	BF143549.D	22 Aug 2025 01:21	CCC fail low for compound # 78,79,87,91,92.	RC/JU	Not Ok
34	Q2903-07	MW-12B-081925	BF143550.D	22 Aug 2025 01:51	CCC fail low for compound # 78,79,87,91,92.	RC/JU	ReRun

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF082125

Review By	Rahul	Review On	8/22/2025 8:18:48 AM		
Supervise By	mohammad	Supervise On	8/22/2025 8:27:40 AM		
SubDirectory	BF082125	HP Acquire Method	BNA_F	HP Processing Method	bf082025

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6857,SP6858,SP6859,SP6860,SP6861,SP6862,SP6863,SP6864
CCC	SP6860
Internal Standard/PEM	S13171,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

35	Q2903-08	MW-18B-081925	BF143551.D	22 Aug 2025 02:19	CCC fail low for compound # 78,79,87,91,92.	RC/JU	ReRun
36	Q2903-09	DUP-02-081925	BF143552.D	22 Aug 2025 02:49	CCC fail low for compound # 78,79,87,91,92.	RC/JU	ReRun
37	Q2903-10	MW-17A-081925	BF143553.D	22 Aug 2025 03:18	CCC fail low for compound # 78,79,87,91,92.	RC/JU	ReRun
38	Q2903-11	MW-18A-081925	BF143554.D	22 Aug 2025 03:46	CCC fail low for compound # 78,87,91,92.Need 2X Dilution	RC/JU	Dilution
39	Q2903-12	MW-16B-081925	BF143555.D	22 Aug 2025 04:16	CCC fail low for compound # 78,79,87,91,92.	RC/JU	ReRun
40	Q2915-01	BRIDGE-WEST	BF143556.D	22 Aug 2025 04:45	CCC fail low for compound # 78,79,87,91,92.	RC/JU	ReRun
41	Q2915-01MS	BRIDGE-WESTMS	BF143557.D	22 Aug 2025 05:14	CCC fail low for compound # 78,79,87,91,92.	RC/JU	Not Ok
42	Q2915-01MSD	BRIDGE-WESTMSD	BF143558.D	22 Aug 2025 05:43	CCC fail low for compound # 78,79,87,91,92.	RC/JU	Not Ok
43	Q2915-03	BRIDGE-EAST	BF143559.D	22 Aug 2025 06:11	CCC fail low for compound # 78,79,87,91,92.	RC/JU	ReRun
44	Q2892-04	1-FLOOR-DRILL-B-BA	BF143560.D	22 Aug 2025 06:40	CCC fail low for compound # 78,79,87,91,92.	RC/JU	ReRun
45	Q2892-02	1-FLOOR-NORTH-EAS	BF143561.D	22 Aug 2025 07:09	CCC fail low for compound # 78,79,87,91,92.	RC/JU	ReRun

M : Manual Integration

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Instrument ID: BNA_P

Daily Analysis Runlog For Sequence/QCBatch ID # BP081425

Review By	Rahul	Review On	8/15/2025 9:35:16 AM		
Supervise By	Jagrut	Supervise On	8/15/2025 3:48:12 PM		
SubDirectory	BP081425	HP Acquire Method	BNA_P	HP Processing Method	bp081425

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6833,SP6834,SP6835,SP6836,SP6837,SP6838,SP6839,SP6840
CCC	SP6836
Internal Standard/PEM	S13170,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BP025390.D	14 Aug 2025 10:30		CG/JU	Ok
2	SSTDCCC040	SSTDCCC040	BP025391.D	14 Aug 2025 11:52	A Fresh Calibration is required.	CG/JU	Not Ok
3	SSTDICC2.5	SSTDICC2.5	BP025392.D	14 Aug 2025 12:33		CG/JU	Ok
4	SSTDICC005	SSTDICC005	BP025393.D	14 Aug 2025 13:15		CG/JU	Ok,M
5	SSTDICC010	SSTDICC010	BP025394.D	14 Aug 2025 13:56		CG/JU	Ok,M
6	SSTDICC020	SSTDICC020	BP025395.D	14 Aug 2025 14:38		CG/JU	Ok,M
7	SSTDICCC040	SSTDICCC040	BP025396.D	14 Aug 2025 15:19	Benzidine failed in the Calibration Method.	CG/JU	Ok,M
8	SSTDICC050	SSTDICC050	BP025397.D	14 Aug 2025 16:01		CG/JU	Ok,M
9	SSTDICC060	SSTDICC060	BP025398.D	14 Aug 2025 16:42		CG/JU	Ok
10	SSTDICC080	SSTDICC080	BP025399.D	14 Aug 2025 17:24		CG/JU	Ok,M
11	SSTDICV040	ICVBP081425	BP025400.D	14 Aug 2025 18:05		CG/JU	Ok,M
12	PB169200TB	PB169200TB	BP025401.D	14 Aug 2025 19:28		CG/JU	Ok
13	PB169210BS	PB169210BS	BP025402.D	14 Aug 2025 20:10		CG/JU	Ok,M
14	SSTDCCC040	SSTDCCC040EC	BP025403.D	14 Aug 2025 20:51		CG/JU	Ok,M
15	DFTPP	DFTPP	BP025404.D	14 Aug 2025 22:14		CG/JU	Ok
16	SSTDCCC040	SSTDCCC040	BP025405.D	14 Aug 2025 22:56		CG/JU	Ok,M
17	PB169228BL	PB169228BL	BP025406.D	14 Aug 2025 23:37		CG/JU	Ok

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Instrument ID: BNA_P

Daily Analysis Runlog For Sequence/QCBatch ID # BP081425

Review By	Rahul	Review On	8/15/2025 9:35:16 AM		
Supervise By	Jagrut	Supervise On	8/15/2025 3:48:12 PM		
SubDirectory	BP081425	HP Acquire Method	BNA_P	HP Processing Method	bp081425

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6833,SP6834,SP6835,SP6836,SP6837,SP6838,SP6839,SP6840
CCC	SP6836
Internal Standard/PEM	S13170,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	PB169228BS	PB169228BS	BP025407.D	15 Aug 2025 00:18		CG/JU	Ok,M
19	Q2820-10	SOIL-DUP-2	BP025408.D	15 Aug 2025 01:00		CG/JU	Ok
20	Q2820-11	10PC-W	BP025409.D	15 Aug 2025 01:41		CG/JU	Ok
21	Q2820-21	22M-N	BP025410.D	15 Aug 2025 02:22	Surrogate Fail	CG/JU	ReRun
22	Q2820-22	22M-W	BP025411.D	15 Aug 2025 03:03	Surrogate Fail	CG/JU	ReRun
23	Q2820-14	10P-E	BP025412.D	15 Aug 2025 03:45		CG/JU	Ok
24	Q2820-16	10P-N	BP025413.D	15 Aug 2025 04:26		CG/JU	Ok
25	Q2820-17	88H-E	BP025414.D	15 Aug 2025 05:07		CG/JU	Ok
26	Q2820-17MS	88H-EMS	BP025415.D	15 Aug 2025 05:48		CG/JU	Ok,M
27	Q2820-17MSD	88H-EMSD	BP025416.D	15 Aug 2025 06:29		CG/JU	Ok,M
28	Q2820-18	88H-N	BP025417.D	15 Aug 2025 07:10		CG/JU	Ok
29	Q2820-19	88H-W	BP025418.D	15 Aug 2025 07:51	Surrogate fail	CG/JU	ReRun
30	Q2820-20	88H-S	BP025419.D	15 Aug 2025 08:32	Surrogate Fail	CG/JU	ReRun
31	SSTDCCC040	SSTDCCC040EC	BP025420.D	15 Aug 2025 09:13		CG/JU	Ok,M

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Instrument ID: BNA_P

Daily Analysis Runlog For Sequence/QCBatch ID # BP081925

Review By	Rahul	Review On	8/20/2025 11:11:45 AM		
Supervise By	Jagrut	Supervise On	8/20/2025 12:07:50 PM		
SubDirectory	BP081925	HP Acquire Method	BNA_P	HP Processing Method	bp081425

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6833,SP6834,SP6835,SP6836,SP6837,SP6838,SP6839,SP6840
CCC	SP6836
Internal Standard/PEM	S13171,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BP025469.D	19 Aug 2025 10:03		CG/JU	Ok
2	SSTDCCC040	SSTDCCC040	BP025470.D	19 Aug 2025 10:44		CG/JU	Ok
3	PB169244BL	PB169244BL	BP025471.D	19 Aug 2025 11:25		CG/JU	Ok
4	PB169244BS	PB169244BS	BP025472.D	19 Aug 2025 12:06		CG/JU	Ok,M
5	PB169244BSD	PB169244BSD	BP025473.D	19 Aug 2025 12:47		CG/JU	Ok,M
6	Q2815-18	TW-84SB-W	BP025474.D	19 Aug 2025 13:29		CG/JU	Ok
7	Q2815-19	DUP	BP025475.D	19 Aug 2025 14:10		CG/JU	Ok
8	Q2815-20	TW-11M-W	BP025476.D	19 Aug 2025 14:51		CG/JU	Ok
9	Q2815-21	TW-11M-E	BP025477.D	19 Aug 2025 15:32		CG/JU	Ok
10	Q2815-22	TW-11M-S	BP025478.D	19 Aug 2025 16:13		CG/JU	Ok
11	Q2815-23	TW-11M-N	BP025479.D	19 Aug 2025 16:55		CG/JU	Ok
12	Q2815-26	FB	BP025480.D	19 Aug 2025 17:36		CG/JU	Ok
13	Q2820-19RE	88H-WRE	BP025481.D	19 Aug 2025 18:17	Surrogate fail,	CG/JU	Confirms
14	Q2820-20RE	88H-SRE	BP025482.D	19 Aug 2025 18:58	Surrogate fail.	CG/JU	Confirms
15	Q2815-13	TW-22M-E	BP025483.D	19 Aug 2025 19:39	Surrogates failed.	CG/JU	Ok
16	Q2815-14	TW-22M-N	BP025484.D	19 Aug 2025 20:21		CG/JU	Ok
17	SSTDCCC040	SSTDCCC040EC	BP025485.D	19 Aug 2025 21:43		CG/JU	Ok
18	DFTPP	DFTPP	BP025486.D	19 Aug 2025 23:05		CG/JU	Ok

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Instrument ID: BNA_P

Daily Analysis Runlog For Sequence/QCBatch ID # BP081925

Review By	Rahul	Review On	8/20/2025 11:11:45 AM		
Supervise By	Jagrut	Supervise On	8/20/2025 12:07:50 PM		
SubDirectory	BP081925	HP Acquire Method	BNA_P	HP Processing Method	bp081425

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6833,SP6834,SP6835,SP6836,SP6837,SP6838,SP6839,SP6840
CCC	SP6836
Internal Standard/PEM	S13171,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	SSTDCCC040	SSTDCCC040	BP025487.D	19 Aug 2025 23:46		CG/JU	Ok,M
20	PB169242BL	PB169242BL	BP025488.D	20 Aug 2025 00:27		CG/JU	Ok
21	PB169242BS	PB169242BS	BP025489.D	20 Aug 2025 01:07		CG/JU	Ok
22	Q2870-04	DRILL CUTTING 6-9 C	BP025490.D	20 Aug 2025 01:48		CG/JU	Ok
23	Q2871-01	DRILL CUTTING 1-3 C	BP025491.D	20 Aug 2025 02:29		CG/JU	Ok
24	Q2870-01	DRILL CUTTING 1-5 C	BP025492.D	20 Aug 2025 03:10		CG/JU	Ok
25	Q2871-04	DRILL CUTTING 4-6 C	BP025493.D	20 Aug 2025 03:51		CG/JU	Ok
26	Q2871-07	DRILL CUTTING 1-5 C	BP025494.D	20 Aug 2025 04:32		CG/JU	Ok
27	Q2873-04	DRILL CUTTING 4-6 C	BP025495.D	20 Aug 2025 05:13		CG/JU	Ok
28	Q2825-01	TW1	BP025496.D	20 Aug 2025 05:54		CG/JU	Ok
29	Q2872-01	DRILL CUTTING 1-2 C	BP025497.D	20 Aug 2025 06:35		CG/JU	Ok
30	Q2815-17	TW-84SB-S	BP025498.D	20 Aug 2025 07:16		CG/JU	Ok
31	Q2815-16	TW-17M-S	BP025499.D	20 Aug 2025 07:57		CG/JU	Ok
32	Q2819-05	11M-W	BP025500.D	20 Aug 2025 08:38		CG/JU	Ok
33	Q2820-13	10P-W	BP025501.D	20 Aug 2025 09:19		CG/JU	Ok
34	SSTDCCC040	SSTDCCC040EC	BP025502.D	20 Aug 2025 10:41		CG/JU	Ok,M

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Instrument ID: BNA_P

Daily Analysis Runlog For Sequence/QCBatch ID # BP082025

Review By	Rahul	Review On	8/21/2025 3:04:18 PM		
Supervise By	mohammad	Supervise On	8/22/2025 8:27:03 AM		
SubDirectory	BP082025	HP Acquire Method	BNA_P	HP Processing Method	bp081425

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6833,SP6834,SP6835,SP6836,SP6837,SP6838,SP6839,SP6840
CCC	SP6836
Internal Standard/PEM	S13171,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BP025503.D	20 Aug 2025 11:24		CG/JU	Ok
2	SSTDCCC040	SSTDCCC040	BP025504.D	20 Aug 2025 12:05		CG/JU	Ok,M
3	PB169259BL	PB169259BL	BP025505.D	20 Aug 2025 12:46	Analyzed for contamination check	CG/JU	Not Ok
4	Q2888-01	VNJ-210	BP025506.D	20 Aug 2025 13:30		CG/JU	Ok,M
5	Q2884-03	302	BP025507.D	20 Aug 2025 14:12		CG/JU	Ok
6	Q2884-01	VNJ-232	BP025508.D	20 Aug 2025 14:53		CG/JU	Ok
7	Q2865-02	ARS10-0047	BP025509.D	20 Aug 2025 15:34		CG/JU	Ok,M
8	Q2889-01	PL-02-081525	BP025510.D	20 Aug 2025 16:15		CG/JU	Ok,M
9	DFTPP	DFTPP	BP025511.D	20 Aug 2025 17:04		CG/JU	Ok
10	SSTDCCC040	SSTDCCC040	BP025512.D	20 Aug 2025 18:27		CG/JU	Ok
11	PB169259BL	PB169259BL	BP025513.D	20 Aug 2025 19:08		CG/JU	Ok
12	PB169259BS	PB169259BS	BP025514.D	20 Aug 2025 19:49		CG/JU	Ok
13	Q2819-03	22BP-W	BP025515.D	20 Aug 2025 20:30		CG/JU	Ok
14	Q2819-03MS	22BP-WMS	BP025516.D	20 Aug 2025 21:11		CG/JU	Ok,M
15	Q2819-03MSD	22BP-WMSD	BP025517.D	20 Aug 2025 21:52		CG/JU	Ok,M
16	Q2819-09	84SB-E	BP025518.D	20 Aug 2025 22:32		CG/JU	Ok
17	Q2819-17	38M-N	BP025519.D	20 Aug 2025 23:13		CG/JU	Ok

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Instrument ID: BNA_P

Daily Analysis Runlog For Sequence/QCBatch ID # BP082025

Review By	Rahul	Review On	8/21/2025 3:04:18 PM		
Supervise By	mohammad	Supervise On	8/22/2025 8:27:03 AM		
SubDirectory	BP082025	HP Acquire Method	BNA_P	HP Processing Method	bp081425

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6833,SP6834,SP6835,SP6836,SP6837,SP6838,SP6839,SP6840
CCC	SP6836
Internal Standard/PEM	S13171,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	Q2819-17MS	38M-NMS	BP025520.D	20 Aug 2025 23:54		CG/JU	Ok,M
19	Q2819-17MSD	38M-NMSD	BP025521.D	21 Aug 2025 00:35		CG/JU	Ok,M
20	Q2814-18RE	TW-518R-NRE	BP025522.D	21 Aug 2025 01:15	Surrogate Fail	CG/JU	Confirms
21	Q2820-23	22M-E	BP025523.D	21 Aug 2025 01:56		CG/JU	Ok
22	Q2819-02	22BP-E	BP025524.D	21 Aug 2025 02:37		CG/JU	Ok
23	Q2815-10	TW-88H-S	BP025525.D	21 Aug 2025 03:18		CG/JU	Ok
24	SSTDCCC040	SSTDCCC040EC	BP025526.D	21 Aug 2025 03:59		CG/JU	Ok
25	DFTPP	DFTPP	BP025527.D	21 Aug 2025 06:01		CG/JU	Ok
26	SSTDCCC040	SSTDCCC040	BP025528.D	21 Aug 2025 06:42		CG/JU	Ok
27	PB169285BL	PB169285BL	BP025529.D	21 Aug 2025 07:23		CG/JU	Ok
28	PB169285BS	PB169285BS	BP025530.D	21 Aug 2025 08:03		CG/JU	Ok,M
29	Q2873-01	DRILL CUTTING 1-3 C	BP025531.D	21 Aug 2025 08:44		CG/JU	Ok
30	Q2873-01MS	DRILL CUTTING 1-3 C	BP025532.D	21 Aug 2025 09:25		CG/JU	Ok,M
31	Q2873-01MSD	DRILL CUTTING 1-3 C	BP025533.D	21 Aug 2025 10:06		CG/JU	Ok,M
32	Q2819-10	84SB-S	BP025534.D	21 Aug 2025 10:50	Surrogate Fail	CG/JU	ReRun
33	Q2819-11	84SB-W	BP025535.D	21 Aug 2025 11:31	Surrogate Fail	CG/JU	ReRun
34	Q2819-12	17M-S	BP025536.D	21 Aug 2025 12:12		CG/JU	Ok
35	Q2832-09	TG-S05	BP025537.D	21 Aug 2025 12:53		CG/JU	Ok
36	Q2897-01	HD-02-08182025	BP025538.D	21 Aug 2025 13:34		CG/JU	Ok,M

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Instrument ID: BNA_P

Daily Analysis Runlog For Sequence/QCBatch ID # BP082025

Review By	Rahul	Review On	8/21/2025 3:04:18 PM		
Supervise By	mohammad	Supervise On	8/22/2025 8:27:03 AM		
SubDirectory	BP082025	HP Acquire Method	BNA_P	HP Processing Method	bp081425

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6833,SP6834,SP6835,SP6836,SP6837,SP6838,SP6839,SP6840
CCC	SP6836
Internal Standard/PEM	S13171,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

37	Q2819-04	22BP-S	BP025539.D	21 Aug 2025 14:15	Surrogate Fail	CG/JU	ReRun
38	Q2819-16	38M-S	BP025540.D	21 Aug 2025 14:56		CG/JU	Ok
39	Q2820-15	10P-S	BP025541.D	21 Aug 2025 15:37		CG/JU	Ok
40	SSTDCCC040	SSTDCCC040EC	BP025542.D	21 Aug 2025 17:11		CG/JU	Ok

M : Manual Integration

PERCENT SOLID

Supervisor: rubina
Analyst: jignesh
Date: 8/22/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:30
In Date: 08/12/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:22
Out Date: 08/13/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % solids-oven

QC: LB136783

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
Q2732-02	WC-A7-01-C	74	1.15	10.37	11.52	11.18	96.7	
Q2819-01	22BP-N	1	1.15	10.16	11.31	9.57	82.9	
Q2819-02	22BP-E	2	1.16	10.67	11.83	10.3	85.7	
Q2819-03	22BP-W	3	1.16	10.83	11.99	10.45	85.8	
Q2819-04	22BP-S	4	1.15	9.96	11.11	9.92	88.1	
Q2819-05	11M-W	5	1.14	10.45	11.59	10.7	91.5	
Q2819-06	11M-S	6	1.16	10.83	11.99	10.96	90.5	
Q2819-07	11M-N	7	1.16	10.81	11.97	9.37	75.9	
Q2819-08	11M-E	8	1.17	10.27	11.44	8.54	71.8	
Q2819-09	84SB-E	9	1.13	10.62	11.75	5.12	37.6	
Q2819-10	84SB-S	10	1.18	10.11	11.29	10.51	92.3	
Q2819-11	84SB-W	11	1.14	10.14	11.28	9.94	86.8	
Q2819-12	17M-S	12	1.19	10.66	11.85	11.15	93.4	
Q2819-13	17M-E	13	1.17	10.38	11.55	9.86	83.7	
Q2819-14	17M-W	14	1.15	10.46	11.61	10.1	85.6	
Q2819-15	17M-N	15	1.15	10.57	11.72	9.96	83.3	
Q2819-16	38M-S	16	1.15	10.77	11.92	11.1	92.4	
Q2819-17	38M-N	17	1.16	10.41	11.57	10.27	87.5	
Q2819-18	38M-W	18	1.14	10.66	11.8	10.34	86.3	
Q2819-19	38M-E	19	1.13	10.13	11.26	10.02	87.8	
Q2819-20	82H-E	20	1.17	10.64	11.81	9.38	77.2	
Q2820-01	82H-S	21	1.16	10.76	11.92	10.04	82.5	
Q2820-02	82H-W	22	1.15	11.21	12.36	10.51	83.5	
Q2820-03	82H-N	23	1.16	11.14	12.3	10.9	87.4	
Q2820-04	SOIL-DUP-1	24	1.16	10.83	11.99	10.56	86.8	
Q2820-05	518R-E	25	1.16	10.40	11.56	6.23	48.8	
Q2820-06	518R-N	26	1.18	10.55	11.73	9.35	77.4	
Q2820-07	518R-S	27	1.17	10.52	11.69	9.44	78.6	

PERCENT SOLID

Supervisor: rubina
Analyst: jignesh
Date: 8/22/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:30
In Date: 08/12/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:22
Out Date: 08/13/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % solids-oven

QC: LB136783

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
Q2820-08	518R-W	28	1.13	10.80	11.93	10.74	89.0	
Q2820-09	705R-S	29	1.14	10.59	11.73	7.05	55.8	
Q2820-10	SOIL-DUP-2	30	1.15	10.87	12.02	6.41	48.4	
Q2820-11	10PC-W	31	1.11	10.25	11.36	10.58	92.4	
Q2820-12	10PC-S	32	1.19	10.52	11.71	10.88	92.1	
Q2820-13	10P-W	33	1.14	10.09	11.23	10.34	91.2	
Q2820-14	10P-E	34	1.19	10.37	11.56	9.62	81.3	
Q2820-15	10P-S	35	1.18	10.21	11.39	10.22	88.5	
Q2820-16	10P-N	36	1.11	10.09	11.2	9.81	86.2	
Q2820-17	88H-E	37	1.16	10.42	11.58	9.77	82.6	
Q2820-18	88H-N	38	1.16	10.90	12.06	10.57	86.3	
Q2820-19	88H-W	39	1.18	10.66	11.84	10.62	88.6	
Q2820-20	88H-S	40	1.18	10.12	11.3	9.74	84.6	
Q2820-21	22M-N	41	1.14	11.06	12.2	11.34	92.2	
Q2820-22	22M-W	42	1.17	10.90	12.07	6.94	52.9	
Q2820-23	22M-E	43	1.17	10.27	11.44	4.66	34.0	
Q2820-24	22M-S	44	1.13	10.68	11.81	10.63	89.0	
Q2832-01	TG-S01	45	1.15	10.46	11.61	10.92	93.4	
Q2832-03	TG-S02	46	1.18	10.41	11.59	10.97	94.0	
Q2832-05	TG-S03	47	1.15	10.50	11.65	11.00	93.8	
Q2832-07	TG-S04	48	1.17	10.58	11.75	11.02	93.1	
Q2832-09	TG-S05	49	1.15	10.40	11.55	10.6	90.9	
Q2836-02	WC-A2-15-C	75	1.18	10.38	11.56	9.67	81.8	
Q2836-06	WC-A2-16-C	76	1.19	10.43	11.62	10.66	90.8	
Q2836-10	WC-A2-17-C	77	1.19	10.48	11.67	10.96	93.2	
Q2836-14	WC-A5-02-C	78	1.19	10.17	11.36	8.8	74.8	
Q2838-01	TP-11	50	1.14	10.60	11.74	10.44	87.7	
Q2838-02	TP-11-EPH	51	1.14	10.85	11.99	9.57	77.7	

PERCENT SOLID

Supervisor: rubina
Analyst: jignesh
Date: 8/22/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:30
In Date: 08/12/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:22
Out Date: 08/13/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % solids-oven

QC: LB136783

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
Q2838-03	TP-11-VOC	52	1.19	11.24	12.43	9.97	78.1	
Q2838-05	TP-10	53	1.14	11.08	12.22	10.75	86.7	
Q2838-06	TP-10-EPH	54	1.18	10.42	11.6	7.63	61.9	
Q2838-07	TP-10-VOC	55	1.18	10.50	11.68	8.68	71.4	
Q2839-01	BC274436-1-1	56	1.00	1.00	2.00	2.00	100.0	PILC
Q2839-02	BC274436-1-2	57	1.00	1.00	2.00	2.00	100.0	PILC
Q2839-03	BC151973-1-1	58	1.00	1.00	2.00	2.00	100.0	PILC
Q2839-04	BC151973-1-2	59	1.00	1.00	2.00	2.00	100.0	PILC
Q2839-05	BC271336-1-1	60	1.00	1.00	2.00	2.00	100.0	PILC
Q2839-06	BC271336-1-2	61	1.00	1.00	2.00	2.00	100.0	PILC
Q2839-07	BC271242-1-1	62	1.00	1.00	2.00	2.00	100.0	PILC
Q2839-08	BC271242-1-2	63	1.00	1.00	2.00	2.00	100.0	PILC
Q2839-09	BC271242-2-1	64	1.00	1.00	2.00	2.00	100.0	PILC
Q2839-10	BC271242-2-2	65	1.00	1.00	2.00	2.00	100.0	PILC
Q2839-11	BC226751-1-1	66	1.00	1.00	2.00	2.00	100.0	PILC
Q2839-12	BC226751-1-2	67	1.00	1.00	2.00	2.00	100.0	PILC
Q2839-13	BC226751-2-1	68	1.00	1.00	2.00	2.00	100.0	PILC
Q2839-14	BC226751-2-2	69	1.00	1.00	2.00	2.00	100.0	PILC
Q2839-15	JEC773V-1-1	70	1.00	1.00	2.00	2.00	100.0	PILC
Q2839-16	JEC773V-1-2	71	1.00	1.00	2.00	2.00	100.0	PILC
Q2840-01	0804-SOIL	72	1.12	11.32	12.44	10.42	82.2	
Q2840-02	0804-D	73	1.00	1.00	2.00	2.00	100.0	debris

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

JB 136783

WorkList Name : %1-081225 **WorkList ID :** 191210 **Department :** Wet-Chemistry **Date :** 08-12-2025 07:56:53

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2820-06	518R-N	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/07/2025	Chemtech -SO
Q2820-07	518R-S	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/07/2025	Chemtech -SO
Q2820-08	518R-W	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/07/2025	Chemtech -SO
Q2820-09	705R-S	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/07/2025	Chemtech -SO
Q2820-10	SOIL-DUP-2	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/07/2025	Chemtech -SO
Q2819-19	38M-E	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/07/2025	Chemtech -SO
Q2819-20	82H-E	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/06/2025	Chemtech -SO
Q2820-01	82H-S	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/06/2025	Chemtech -SO
Q2820-02	82H-W	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/06/2025	Chemtech -SO
Q2820-03	82H-N	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/06/2025	Chemtech -SO
Q2820-04	SOIL-DUP-1	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/06/2025	Chemtech -SO
Q2819-13	17M-E	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/06/2025	Chemtech -SO
Q2819-14	17M-W	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/05/2025	Chemtech -SO
Q2819-15	17M-N	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/05/2025	Chemtech -SO
Q2819-16	38M-S	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/05/2025	Chemtech -SO
Q2819-17	38M-N	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/06/2025	Chemtech -SO
Q2819-18	38M-W	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/06/2025	Chemtech -SO
Q2819-07	11M-N	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/06/2025	Chemtech -SO
Q2819-08	11M-E	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/05/2025	Chemtech -SO
Q2819-09	84SB-E	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/05/2025	Chemtech -SO
Q2819-10	84SB-S	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/05/2025	Chemtech -SO

Date/Time 08112125 1510

Raw Sample Received by: SB WC

Raw Sample Relinquished by:

Date/Time 08112125 1735

Raw Sample Received by:

Raw Sample Relinquished by: SB WC

WORKLIST(Hardcopy Internal Chain)

VB 136783

WorkList Name : %1-081225 **WorkList ID :** 191210 **Department :** Wet-Chemistry **Date :** 08-12-2025 07:56:53

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2819-01	22BP-N	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/04/2025	Chemtech -SO
Q2819-02	22BP-E	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/04/2025	Chemtech -SO
Q2819-03	22BP-W	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/04/2025	Chemtech -SO
Q2819-04	22BP-S	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/04/2025	Chemtech -SO
Q2819-05	11M-W	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/05/2025	Chemtech -SO
Q2819-06	11M-S	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/05/2025	Chemtech -SO
Q2820-23	22M-E	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/08/2025	Chemtech -SO
Q2820-24	22M-S	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/08/2025	Chemtech -SO
Q2820-17	88H-E	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/08/2025	Chemtech -SO
Q2820-18	88H-N	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/08/2025	Chemtech -SO
Q2820-19	88H-W	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/08/2025	Chemtech -SO
Q2820-20	88H-S	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/08/2025	Chemtech -SO
Q2820-21	22M-N	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/08/2025	Chemtech -SO
Q2820-22	22M-W	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/08/2025	Chemtech -SO
Q2820-11	10PC-W	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/07/2025	Chemtech -SO
Q2820-12	10PC-S	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/07/2025	Chemtech -SO
Q2820-13	10P-W	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/07/2025	Chemtech -SO
Q2820-14	10P-E	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/07/2025	Chemtech -SO
Q2820-15	10P-S	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/07/2025	Chemtech -SO
Q2820-16	10P-N	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/07/2025	Chemtech -SO
Q2820-05	518R-E	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/07/2025	Chemtech -SO

Date/Time 08/12/25 15:00

Raw Sample Received by: [signature]

Raw Sample Relinquished by: [signature]

Date/Time 08/12/25 17:35

Raw Sample Received by: [signature]

Raw Sample Relinquished by: [signature]

WORKLIST(Hardcopy Internal Chain)

VB 136783

WorkList Name : %1-081225 **WorkList ID :** 191210 **Department :** Wet-Chemistry **Date :** 08-12-2025 07:56:53

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2839-04	BC151973-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	08/12/2025	Chemtech -SO
Q2839-05	BC271336-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	08/12/2025	Chemtech -SO
Q2839-06	BC271336-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	08/12/2025	Chemtech -SO
Q2839-07	BC271242-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	08/12/2025	Chemtech -SO
Q2839-08	BC271242-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	08/12/2025	Chemtech -SO
Q2839-09	BC271242-2-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	08/12/2025	Chemtech -SO
Q2839-10	BC271242-2-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	08/12/2025	Chemtech -SO
Q2839-11	BC226751-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	08/12/2025	Chemtech -SO
Q2839-12	BC226751-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	08/12/2025	Chemtech -SO
Q2839-13	BC226751-2-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	08/12/2025	Chemtech -SO
Q2839-14	BC226751-2-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	08/12/2025	Chemtech -SO
Q2839-15	JEC773V-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	08/12/2025	Chemtech -SO
Q2839-16	JEC773V-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	08/12/2025	Chemtech -SO
Q2840-01	0804-SOIL	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	08/12/2025	Chemtech -SO
Q2840-02	0804-D	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	08/12/2025	Chemtech -SO

Date/Time 08112125 15:00
Raw Sample Received by:
Raw Sample Relinquished by:

Date/Time 08112125 17:35
Raw Sample Received by:
Raw Sample Relinquished by:

WORKLIST(Hardcopy Internal Chain)

WS 131783

WorkList Name : %1-081225 **WorkList ID :** 191210 **Department :** Wet-Chemistry **Date :** 08-12-2025 07:56:53

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2819-11	84SB-W	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/05/2025	Chemtech -SO
Q2819-12	17M-S	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/05/2025	Chemtech -SO
Q2832-01	TG-S01	Solid	Percent Solids	Cool 4 deg C	PORT06	J21	08/11/2025	Chemtech -SO
Q2732-02	WC-A7-01-C	Solid	Percent Solids	Cool 4 deg C	ENTA05	J21	08/12/2025	Chemtech -SO
Q2832-03	TG-S02	Solid	Percent Solids	Cool 4 deg C	PORT06	J21	08/11/2025	Chemtech -SO
Q2832-05	TG-S03	Solid	Percent Solids	Cool 4 deg C	PORT06	J21	08/11/2025	Chemtech -SO
Q2832-07	TG-S04	Solid	Percent Solids	Cool 4 deg C	PORT06	J21	08/11/2025	Chemtech -SO
Q2832-09	TG-S05	Solid	Percent Solids	Cool 4 deg C	PORT06	J21	08/12/2025	Chemtech -SO
Q2836-02	WC-A2-15-C	Solid	Percent Solids	Cool 4 deg C	ENTA05	J23	08/12/2025	Chemtech -SO
Q2836-06	WC-A2-16-C	Solid	Percent Solids	Cool 4 deg C	ENTA05	J23	08/12/2025	Chemtech -SO
Q2836-10	WC-A2-17-C	Solid	Percent Solids	Cool 4 deg C	ENTA05	J23	08/12/2025	Chemtech -SO
Q2836-14	WC-A5-02-C	Solid	Percent Solids	Cool 4 deg C	ENTA05	J23	08/12/2025	Chemtech -SO
Q2838-01	TP-11	Solid	Percent Solids	Cool 4 deg C	PSEG03	D21	08/12/2025	Chemtech -SO
Q2838-02	TP-11-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	D21	08/12/2025	Chemtech -SO
Q2838-03	TP-11-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	D21	08/12/2025	Chemtech -SO
Q2838-05	TP-10	Solid	Percent Solids	Cool 4 deg C	PSEG03	D21	08/12/2025	Chemtech -SO
Q2838-06	TP-10-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	D21	08/12/2025	Chemtech -SO
Q2838-07	TP-10-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	D21	08/12/2025	Chemtech -SO
Q2839-01	BC274436-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	08/12/2025	Chemtech -SO
Q2839-02	BC274436-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	08/12/2025	Chemtech -SO
Q2839-03	BC151973-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	08/12/2025	Chemtech -SO

Date/Time 08/12/25 15:00

Raw Sample Received by: WC

Raw Sample Relinquished by:

Date/Time 08/12/25 17:35

Raw Sample Received by:

Raw Sample Relinquished by: WC

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB169242

SOP ID:	M3541-ASE Extraction-15				
Clean Up SOP #:	N/A			**Extraction Start Date :**	08/14/2025
Matrix :	Solid			**Extraction Start Time :**	08:40
Weigh By:	RJ	**Extraction By:**	RJ	**Extraction End Date :**	08/14/2025
Balance check:	RJ	**Filter By:**	RJ	**Extraction End Time :**	12:00
Balance ID:	EX-SC-2	**pH Meter ID:**	N/A	**Concentration By:**	RS
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	SP6849
Spike Sol 1	1.0ML	100/150 PPM	SP6852
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	EP2626
Baked Na2SO4	N/A	EP2632
Sand	N/A	E3951
Methylene Chloride	N/A	E3954
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5ML Vial Lot # 2210443, Q2844-09,11 used Limited volume as samples are Oily Debris.

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
8/14/25 12:05	RS (Bu-Lab)	Rc/SVOC
	Preparation Group	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB169242

Analytical Method: M3541-ASE Extraction-15

Concentration Date: 08/14/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB169242BL	SBLK242	SVOC-TCL BNA -20	30.01	N/A	ritesh	RUPESH	1			U6-1
PB169242BS	SLCS242	SVOC-TCL BNA -20	30.03	N/A	ritesh	RUPESH	1			2
Q2819-01	22BP-N	SVOC-TCL BNA -20	30.05	N/A	ritesh	RUPESH	1	E		3
Q2819-02	22BP-E	SVOC-TCL BNA -20	30.09	N/A	ritesh	RUPESH	1	E		4
Q2819-03	22BP-W	SVOC-TCL BNA -20	30.02	N/A	ritesh	RUPESH	1	E		5
Q2819-03MS	22BP-WMS	SVOC-TCL BNA -20	30.06	N/A	ritesh	RUPESH	1	E		6
Q2819-03MSD	22BP-WMSD	SVOC-TCL BNA -20	30.08	N/A	ritesh	RUPESH	1	E		U1-1
Q2819-04	22BP-S	SVOC-TCL BNA -20	30.01	N/A	ritesh	RUPESH	1	E		2
Q2819-05	11M-W	SVOC-TCL BNA -20	30.04	N/A	ritesh	RUPESH	1	E		3
Q2819-06	11M-S	SVOC-TCL BNA -20	30.07	N/A	ritesh	RUPESH	1	E		4
Q2819-07	11M-N	SVOC-TCL BNA -20	30.03	N/A	ritesh	RUPESH	1	E		5
Q2819-08	11M-E	SVOC-TCL BNA -20	30.05	N/A	ritesh	RUPESH	1	E		6
Q2819-09	84SB-E	SVOC-TCL BNA -20	30.09	N/A	ritesh	RUPESH	1	E		U2-1
Q2820-23	22M-E	SVOC-TCL BNA -20	30.07	N/A	ritesh	RUPESH	1	E		2
Q2820-24	22M-S	SVOC-TCL BNA -20	30.02	N/A	ritesh	RUPESH	1	E		3
Q2844-01	PAD-081325	SVOC-PAH	50.06	N/A	ritesh	RUPESH	1	B	Concrete	4
Q2844-02	MOO-25-0224-0225	SVOC-PAH	50.03	N/A	ritesh	RUPESH	1	E		5
Q2844-04	MOO-25-0234-0235	SVOC-PAH	50.05	N/A	ritesh	RUPESH	1	E		6
Q2844-06	MOO-25-0223	SVOC-PAH	30.02	N/A	ritesh	RUPESH	1	E	Small Partical	U3-1
Q2844-09	MOO-25-0226	SVOC-PAH	5.03	N/A	ritesh	RUPESH	1	B	Oily Debris	2
Q2844-11	MOO-25-0228	SVOC-PAH	5.07	N/A	ritesh	RUPESH	1	E	Debris	3
Q2853-01	TR-5-081325	SVOC-TCL BNA -20	50.03	N/A	ritesh	RUPESH	1	E		4
Q2857-03	72-12002	SVOC-TCL BNA -20	50.09	N/A	ritesh	RUPESH	1	E		5
Q2858-01	VNJ 216	SVOC-TCL BNA -20	50.06	N/A	ritesh	RUPESH	1	E		6

RS 8/14

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

169242
8:40

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q2844 **WorkList ID :** 191263 **Department :** Extraction **Date :** 08-14-2025 08:30:41

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2819-01	22BP-N	Solid	SVOC-TCL BNA -20	Cool 4 deg C	FIRS02	D31	08/04/2025	8270E
Q2819-02	22BP-E	Solid	SVOC-TCL BNA -20	Cool 4 deg C	FIRS02	D31	08/04/2025	8270E
Q2819-03	22BP-W	Solid	SVOC-TCL BNA -20	Cool 4 deg C	FIRS02	D31	08/04/2025	8270E
Q2819-04	22BP-S	Solid	SVOC-TCL BNA -20	Cool 4 deg C	FIRS02	D31	08/04/2025	8270E
Q2819-05	11M-W	Solid	SVOC-TCL BNA -20	Cool 4 deg C	FIRS02	D31	08/05/2025	8270E
Q2819-06	11M-S	Solid	SVOC-TCL BNA -20	Cool 4 deg C	FIRS02	D31	08/05/2025	8270E
Q2819-07	11M-N	Solid	SVOC-TCL BNA -20	Cool 4 deg C	FIRS02	D31	08/05/2025	8270E
Q2819-08	11M-E	Solid	SVOC-TCL BNA -20	Cool 4 deg C	FIRS02	D31	08/05/2025	8270E
Q2819-09	84SB-E	Solid	SVOC-TCL BNA -20	Cool 4 deg C	FIRS02	D31	08/05/2025	8270E
Q2820-23	22M-E	Solid	SVOC-TCL BNA -20	Cool 4 deg C	FIRS02	D31	08/08/2025	8270E
Q2820-24	22M-S	Solid	SVOC-TCL BNA -20	Cool 4 deg C	FIRS02	D31	08/08/2025	8270E
Q2844-01	PAD-081325	Solid	SVOC-PAH	Cool 4 deg C	PSEG03	J13	08/13/2025	8270E
Q2844-02	MOO-25-0224-0225	Solid	SVOC-PAH	Cool 4 deg C	PSEG03	J13	08/13/2025	8270E
Q2844-04	MOO-25-0234-0235	Solid	SVOC-PAH	Cool 4 deg C	PSEG03	J13	08/13/2025	8270E
Q2844-06	MOO-25-0223	Solid	SVOC-PAH	Cool 4 deg C	PSEG03	J13	08/13/2025	8270E
Q2844-09	MOO-25-0226	Solid	SVOC-PAH	Cool 4 deg C	PSEG03	J13	08/13/2025	8270E
Q2844-11	MOO-25-0228	Solid	SVOC-PAH	Cool 4 deg C	PSEG03	J13	08/13/2025	8270E
Q2853-01	Tr-5-081325	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG05	J33	08/13/2025	8270E
Q2857-03	72-12002	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	--Sele	08/13/2025	8270E
Q2858-01	VNJ 216	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	J32	08/13/2025	8270E

Date/Time 08/14/25 8:35
Raw Sample Received by: RJ (EA-Leeb)
Raw Sample Relinquished by: SM

Date/Time 08/14/25 9:05
Raw Sample Received by: SM
Raw Sample Relinquished by: RJ (EA-Leeb)

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB169259

SOP ID:	M3541-ASE Extraction-15				
Clean Up SOP #:	N/A			**Extraction Start Date :**	08/15/2025
Matrix :	Solid			**Extraction Start Time :**	08:25
Weigh By:	RJ	**Extraction By:**	RJ	**Extraction End Date :**	08/15/2025
Balance check:	RJ	**Filter By:**	RJ	**Extraction End Time :**	11:45
Balance ID:	EX-SC-2	**pH Meter ID:**	N/A	**Concentration By:**	RS
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	SP6849
Spike Sol 1	1.0ML	100/150 PPM	SP6852
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	EP2626
Baked Na2SO4	N/A	EP2632
Methylene Chloride	N/A	E3954
Sand	N/A	E3951
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5ML Vial Lot # 2210443.

KD Bath ID:	N/A	**Envap ID:**	NEVAP-02
KD Bath Temperature:	N/A	**Envap Temperature:**	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
8/15/25	RS (Bottle bulk)	RC / SVOC
11:50	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB169259

Analytical Method: M3541-ASE Extraction-15 **Concentration Date:** 08/15/2025

Sample ID	Client Sample ID	Test	g mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB169259BL	SBLK259	SVOC-TCL BNA -20	30.03	N/A	ritesh	RUPESH	1			U2-1
PB169259BS	SLCS259	SVOC-TCL BNA -20	30.02	N/A	ritesh	RUPESH	1			2
Q2819-10	84SB-S	SVOC-TCL BNA -20	30.07	N/A	ritesh	RUPESH	1	E		3
Q2819-11	84SB-W	SVOC-TCL BNA -20	30.04	N/A	ritesh	RUPESH	1	E		4
Q2819-12	17M-S	SVOC-TCL BNA -20	30.01	N/A	ritesh	RUPESH	1	E		5
Q2819-13	17M-E	SVOC-TCL BNA -20	30.05	N/A	ritesh	RUPESH	1	E		6
Q2819-14	17M-W	SVOC-TCL BNA -20	30.08	N/A	ritesh	RUPESH	1	E		U3-1
Q2819-15	17M-N	SVOC-TCL BNA -20	30.06	N/A	ritesh	RUPESH	1	E		2
Q2819-16	38M-S	SVOC-TCL BNA -20	30.02	N/A	ritesh	RUPESH	1	E		3
Q2819-17	38M-N	SVOC-TCL BNA -20	30.09	N/A	ritesh	RUPESH	1	E		4
Q2819-17MS	38M-NMS	SVOC-TCL BNA -20	30.03	N/A	ritesh	RUPESH	1	E		5
Q2819-17MSD	38M-NMSD	SVOC-TCL BNA -20	30.05	N/A	ritesh	RUPESH	1	E		6
Q2819-18	38M-W	SVOC-TCL BNA -20	30.08	N/A	ritesh	RUPESH	1	E		U6-1
Q2819-19	38M-E	SVOC-TCL BNA -20	30.06	N/A	ritesh	RUPESH	1	E		2
Q2819-20	82H-E	SVOC-TCL BNA -20	30.02	N/A	ritesh	RUPESH	1	E		3
Q2865-02	ARS10-0047	SVOC-TCL BNA -20	50.05	N/A	ritesh	RUPESH	1	E	Oily Mat.	4
Q2870-01	DRIL CUTTING 1-5 COMP	SVOC-TCL BNA -20	50.01	N/A	ritesh	RUPESH	1	E		5
Q2870-04	DRIL CUTTING 6-9 COMP	SVOC-TCL BNA -20	50.06	N/A	ritesh	RUPESH	1	E		6
Q2871-01	DRIL CUTTING 1-3 COMP	SVOC-TCL BNA -20	50.08	N/A	ritesh	RUPESH	1	E		U1-1
Q2871-04	DRIL CUTTING 4-6 COMP	SVOC-TCL BNA -20	50.04	N/A	ritesh	RUPESH	1	E		2
Q2871-07	DRIL CUTTING 1-5 COMP	SVOC-TCL BNA -20	50.02	N/A	ritesh	RUPESH	1	E		3
Q2872-01	DRIL CUTTING 1-2 COMP	SVOC-TCL BNA -20	50.05	N/A	ritesh	RUPESH	1	E		4
Q2876-01	CL-02-08142025	SVOC-TCL BNA -20	50.09	N/A	ritesh	RUPESH	1	E		5
Q2877-01	EO-02-08142025	SVOC-TCL BNA -20	50.07	N/A	ritesh	RUPESH	1	E		6

RG 8/15

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

16925 8:25

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q2865 **WorkList ID :** 191292 **Department :** Extraction **Date :** 08-15-2025 08:15:40

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2819-10	84SB-S	Solid	SVOC-TCL BNA -20	Cool 4 deg C	FIRS02	D31	08/05/2025	8270E
Q2819-11	84SB-W	Solid	SVOC-TCL BNA -20	Cool 4 deg C	FIRS02	D31	08/05/2025	8270E
Q2819-12	17M-S	Solid	SVOC-TCL BNA -20	Cool 4 deg C	FIRS02	D31	08/05/2025	8270E
Q2819-13	17M-E	Solid	SVOC-TCL BNA -20	Cool 4 deg C	FIRS02	D31	08/05/2025	8270E
Q2819-14	17M-W	Solid	SVOC-TCL BNA -20	Cool 4 deg C	FIRS02	D31	08/05/2025	8270E
Q2819-15	17M-N	Solid	SVOC-TCL BNA -20	Cool 4 deg C	FIRS02	D31	08/05/2025	8270E
Q2819-16	38M-S	Solid	SVOC-TCL BNA -20	Cool 4 deg C	FIRS02	D31	08/06/2025	8270E
Q2819-17	38M-N	Solid	SVOC-TCL BNA -20	Cool 4 deg C	FIRS02	D31	08/06/2025	8270E
Q2819-18	38M-W	Solid	SVOC-TCL BNA -20	Cool 4 deg C	FIRS02	D31	08/06/2025	8270E
Q2819-19	38M-E	Solid	SVOC-TCL BNA -20	Cool 4 deg C	FIRS02	D31	08/06/2025	8270E
Q2819-20	82H-E	Solid	SVOC-TCL BNA -20	Cool 4 deg C	FIRS02	D31	08/06/2025	8270E
Q2865-02	ARS10-0047	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	J41	08/13/2025	8270E
Q2870-01	DRIL CUTTING 1-5 COMP	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	J22	08/13/2025	8270E
Q2870-04	DRIL CUTTING 6-9 COMP	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	J22	08/13/2025	8270E
Q2871-01	DRIL CUTTING 1-3 COMP	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	J33	08/13/2025	8270E
Q2871-04	DRIL CUTTING 4-6 COMP	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	J33	08/13/2025	8270E
Q2871-07	DRIL CUTTING 1-5 COMP	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	J33	08/13/2025	8270E
Q2872-01	DRIL CUTTING 1-2 COMP	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	J33	08/13/2025	8270E
Q2876-01	CL-02-08142025	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG05	D31	08/14/2025	8270E
Q2877-01	EO-02-08142025	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG05	D31	08/14/2025	8270E

Date/Time 08/15/25 8:20
Raw Sample Received by: RJ (CFL-Vell)
Raw Sample Relinquished by: SM

Date/Time 08/15/25 8:50
Raw Sample Received by: SM
Raw Sample Relinquished by: RJ (CFL-Vell)

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

Prep Standard - Chemical Standard Summary

Order ID : Q2819

Test : SVOC-TCL BNA -20

Prepbatch ID : PB169242,PB169259,

Sequence ID/Qc Batch ID: BF082025,bf082125,BP081925,BP082025,

Standard ID :
EP2626,EP2632,SP6757,SP6769,SP6770,SP6832,SP6833,SP6834,SP6835,SP6836,SP6837,SP6838,SP6839,SP6840,SP6849,SP6852,SP6856,SP6857,SP6858,SP6859,SP6860,SP6861,SP6862,SP6863,SP6864,

Chemical ID :
10ul/1000ul sample,E3875,E3904,E3926,E3932,E3942,E3946,E3949,E3951,E3954,S10105,S11484,S11496,S11651,S11788,S11801,S11802,S11805,S11806,S11807,S12115,S12195,S12196,S12197,S12198,S12216,S12217,S12218,S12219,S12220,S12245,S12272,S12277,S12278,S12306,S12307,S12486,S12499,S12500,S12501,S12502,S12503,S12504,S12505,S12506,S12507,S12534,S12545,S12546,S12547,S12548,S12549,S12550,S12551,S12552,S12577,S12658,S12670,S12739,S12776,S12974,S12987,S12988,S12989,S12990,S12991,S12992,S13057,S13078,S13088,S13089,S13148,S13158,S13159,S13170,S13171,S13206,S13207,S13208,S13209,S13210,S13211,S13214,S13233,

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Extractions STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2017	1:1 ACETONE/METHYLENE CHLORIDE	EP2626	07/15/2025	01/15/2026	RUPESHKUMAR SHAH	None	None	Riteshkumar Patel 07/15/2025

FROM 8000.00000ml of E3949 + 8000.00000ml of E3954 = Final Quantity: 16000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3923	Baked Sodium Sulfate	EP2632	08/11/2025	01/28/2026	RUPESHKUMAR SHAH	Extraction_SCALE_2 (EX-SC-2)	None	Riteshkumar Patel 08/11/2025

FROM 4000.00000gram of E3875 = Final Quantity: 4000.000 gram

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SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3895	50 ug/ml DFTPP 8270E	SP6757	03/31/2025	09/30/2025	Rahul Chavli	None	None	Jagrut Upadhyay 04/01/2025

FROM 1.00000ml of S12577 + 19.00000ml of E3904 = Final Quantity: 20.000 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)	SP6769	04/10/2025	09/10/2025	Jagrut Upadhyay	None	None	Sohil Jodhani 04/16/2025

FROM 0.04000ml of S12195 + 0.08000ml of S12216 + 0.10000ml of S11788 + 0.20000ml of S12486 + 0.20000ml of S12534 + 0.20000ml of S12974 + 1.18000ml of E3926 = 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	SP6770	04/10/2025	09/10/2025	Jagrut Upadhyay	None	None	Sohil Jodhani 04/16/2025

FROM 0.01000ml of S12658 + 0.60000ml of E3926 + 0.40000ml of SP6769 = Final Quantity: 1.010 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
4178	8270/625.1 Stock Solution-2 100 ng	SP6832	06/19/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli 07/21/2025

FROM 0.20000ml of S13211 + 0.26700ml of S10105 + 0.40000ml of S11496 + 0.40000ml of S12278 + 0.50000ml of S12115 + 0.50000ml of S13209 + 0.50000ml of S13210 + 0.60000ml of S12277 + 1.00000ml of S12272 + 1.00000ml of S13057 + 1.00000ml of S13078 + 1.00000ml of S13208 + 2.63300ml of E3942 = 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
4179	80 ng BNA ICC	SP6833	06/19/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli 07/21/2025

FROM 0.01000ml of S12670 + 0.20000ml of E3942 + 0.80000ml of SP6832 = Final Quantity: 1.010 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
4180	60 ng BNA ICC	SP6834	06/19/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli 07/21/2025

FROM 0.01000ml of S12670 + 0.40000ml of E3942 + 0.60000ml of SP6832 = Final Quantity: 1.010 ml

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Fax : 908 789 8922

SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
4181	50 ng BNA ICC	SP6835	06/19/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli 07/21/2025

FROM 0.01000ml of S12670 + 0.50000ml of E3942 + 0.50000ml of SP6832 = Final Quantity: 1.010 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
4182	40 ng BNA ICC	SP6836	06/19/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli 07/21/2025

FROM 0.01000ml of S12670 + 0.60000ml of E3942 + 0.40000ml of SP6832 = Final Quantity: 1.010 ml

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Fax : 908 789 8922

SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
4183	20 ng BNA ICC	SP6837	06/19/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli 07/21/2025

FROM 0.01000ml of S12670 + 0.80000ml of E3942 + 0.20000ml of SP6832 = Final Quantity: 1.010 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
4184	10 ng BNA ICC	SP6838	06/19/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli 07/21/2025

FROM 0.01000ml of S12670 + 0.90000ml of E3942 + 0.10000ml of SP6832 = Final Quantity: 1.010 ml

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Fax : 908 789 8922

SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
4185	5 ng BNA ICC	SP6839	06/19/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli 07/21/2025

FROM 0.01000ml of S12670 + 0.95000ml of E3942 + 0.05000ml of SP6832 = Final Quantity: 1.010 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
4186	2.5 ng BNA ICC	SP6840	06/19/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli 07/21/2025

FROM 0.01000ml of S12670 + 0.50000ml of E3942 + 0.50000ml of SP6839 = 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
171	8270/625 Spike Solution, 50/100 PPM	SP6849	07/01/2025	09/30/2025	Rahul Chavli	None	None	Jagrut Upadhyay 07/01/2025

FROM 0.10000ml of S12507 + 0.10000ml of S13159 + 0.30000ml of S13158 + 0.40000ml of S11484 + 0.40000ml of S11651 + 0.40000ml of S11806 + 0.40000ml of S11807 + 0.40000ml of S13148 + 0.40000ml of S13206 + 0.60000ml of S13089 + 0.80000ml of S12499 + 0.90000ml of S12552 + 1.20000ml of S12504 + 1.20000ml of S12506 + 1.20000ml of S12546 + 1.30000ml of S11802 + 1.30000ml of S12501 + 1.30000ml of S12503 + 1.30000ml of S12505 + 1.30000ml of S12545 + 1.30000ml of S12547 + 1.30000ml of S12549 + 1.30000ml of S12550 + 1.30000ml of S12551 + 1.30000ml of S12988 + 1.30000ml of S12989 + 1.30000ml of S12990 + 1.30000ml of S12992 + 1.40000ml of S11805 + 1.40000ml of S12500 + 1.40000ml of S12502 + 1.40000ml of S12548 + 1.40000ml of S12987 + 1.40000ml of S12991 + 1.40000ml of S13088 + 1.50000ml of S11801 + 163.00000ml of E3932 = Final Quantity: 200.000 ml

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	SP6852	07/02/2025	09/18/2025	Jagrut Upadhyay	None	None	Rahul Chavli 07/02/2025

FROM 1.50000ml of S12220 + 2.00000ml of S12195 + 2.00000ml of S12197 + 2.00000ml of S12216 + 5.50000ml of S12196 + 5.50000ml of S12198 + 5.50000ml of S12217 + 5.50000ml of S12218 + 5.50000ml of S12219 + 965.00000ml of E3946 = Final Quantity: 1000.000 ml

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SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
4215	New 8270E/625.1 ICAL Stock Solution 100 ng	SP6856	08/12/2025	12/16/2025	Jagrut Upadhyay	None	None	mohammad ahmed 08/22/2025

FROM 0.04000ml of S13207 + 0.20000ml of S12197 + 0.30000ml of S12306 + 0.40000ml of S12220 + 0.50000ml of S11807 + 0.50000ml of S12245 + 0.50000ml of S12776 + 0.50000ml of S13214 + 0.50000ml of S13233 + 0.70000ml of S12307 + 1.00000ml of S12739 + 4.86000ml of E3954 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
4216	80ng ICC	SP6857	08/12/2025	12/16/2025	Jagrut Upadhyay	None	None	mohammad ahmed 08/22/2025

FROM 0.01000ml of S13170 + 0.20000ml of E3954 + 0.80000ml of SP6856 = 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
4217	60ng ICC	SP6858	08/12/2025	12/16/2025	Jagrut Upadhyay	None	None	mohammad ahmed 08/22/2025

FROM 0.01000ml of S13170 + 0.40000ml of E3954 + 0.60000ml of SP6856 = Final Quantity: 1.010 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
4218	50ng ICC	SP6859	08/12/2025	12/16/2025	Jagrut Upadhyay	None	None	mohammad ahmed 08/22/2025

FROM 0.01000ml of S13170 + 0.50000ml of E3954 + 0.50000ml of SP6856 = 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
4219	40ng ICC	SP6860	08/12/2025	12/16/2025	Jagrut Upadhyay	None	None	mohammad ahmed 08/22/2025

FROM 0.01000ml of S13170 + 0.60000ml of E3954 + 0.40000ml of SP6856 = Final Quantity: 1.010 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
4220	20ng ICC	SP6861	08/12/2025	12/16/2025	Jagrut Upadhyay	None	None	mohammad ahmed 08/22/2025

FROM 0.01000ml of S13170 + 0.80000ml of E3954 + 0.20000ml of SP6856 = 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
4221	10ng ICC	SP6862	08/12/2025	12/16/2025	Jagrut Upadhyay	None	None	mohammad ahmed 08/22/2025

FROM 0.01000ml of S13170 + 0.75000ml of E3954 + 0.25000ml of SP6860 = Final Quantity: 1.010 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
4222	5ng ICC	SP6863	08/12/2025	12/16/2025	Jagrut Upadhyay	None	None	mohammad ahmed 08/22/2025

FROM 0.01000ml of S13170 + 0.87500ml of E3954 + 0.12500ml of SP6860 = 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
4223	2.5ng ICC	SP6864	08/12/2025	12/16/2025	Jagrut Upadhyay	None	None	mohammad ahmed 08/22/2025

FROM 0.01000ml of S13170 + 0.50000ml of E3954 + 0.50000ml of SP6863 = 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 #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	417203	01/28/2026	07/28/2025 / RUPESH	01/29/2025 / Rajesh	E3875

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	01/07/2026	03/13/2025 /	12/27/2024 / RUPESH	E3904

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	10/08/2025	04/08/2025 / Rajesh	02/07/2025 / Rajesh	E3926

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	11/05/2025	05/05/2025 / RUPESH	04/23/2025 / RUPESH	E3932

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)	25A2862010	12/13/2025	06/13/2025 / Rajesh	02/28/2025 / Rajesh	E3942

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	05/24/2027	07/01/2025 / RUPESH	06/19/2025 / RUPESH	E3946

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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-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H2762008	04/18/2027	07/08/2025 / RITESHKUMAR	07/03/2025 / RUPESH	E3949

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)	25A2756718	12/31/2028	07/09/2025 / RUPESH	04/28/2020 / RUPESH	E3951

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)	25B1862001	03/19/2026	07/14/2025 / RUPESH	06/11/2025 / RUPESH	E3954

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	12/19/2025	06/19/2025 / Jagrut	12/09/2021 / Christian	S10105

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	10/30/2025	04/30/2025 / Rahul	08/10/2023 / yogesh	S11484

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	10/28/2025	04/28/2025 / Jagrut	08/11/2023 / Yogesh	S11496

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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	555872 / Custom Standard, pentachlorophenol Std [CS 5328-5]	A0201728	01/01/2026	07/01/2025 / Rahul	11/09/2023 / Yogesh	S11651

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	09/10/2025	03/10/2025 / anahy	11/21/2023 / Rahul	S11788

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	A0200655	01/01/2026	07/01/2025 / Rahul	11/21/2023 / rahul	S11801

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	A0200655	01/01/2026	07/01/2025 / Rahul	11/21/2023 / rahul	S11802

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	A0200655	01/01/2026	07/01/2025 / Rahul	11/21/2023 / rahul	S11805

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	A0200655	12/04/2025	06/04/2025 / Jagrut	11/21/2023 / rahul	S11806

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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	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0200655	01/01/2026	07/01/2025 / Rahul	11/21/2023 / rahul	S11807

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	10/28/2025	04/28/2025 / Jagrut	03/08/2024 / Rahul	S12115

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	09/18/2025	03/18/2025 / anahy	03/15/2024 / Rahul	S12195

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	01/02/2026	07/02/2025 / Jagrut	03/15/2024 / Rahul	S12196

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	01/02/2026	07/02/2025 / Jagrut	03/15/2024 / Rahul	S12197

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	01/02/2026	07/02/2025 / Jagrut	03/15/2024 / Rahul	S12198

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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	A0206381	09/18/2025	03/18/2025 / anahy	03/15/2024 / Rahul	S12216

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	01/02/2026	07/02/2025 / Jagrut	03/15/2024 / Rahul	S12217

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	01/02/2026	07/02/2025 / Jagrut	03/15/2024 / Rahul	S12218

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	01/02/2026	07/02/2025 / Jagrut	03/15/2024 / Rahul	S12219

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	01/02/2026	07/02/2025 / Jagrut	03/15/2024 / Rahul	S12220

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30409 / Pyridine, 2000 PPM in P & T Methanol	A0206650	12/16/2025	06/16/2025 / Jagrut	05/14/2024 / Rahul	S12245

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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	12/03/2025	06/03/2025 / Jagrut	05/24/2024 / Rahul	S12272

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	11/05/2025	05/05/2025 / Jagrut	05/24/2024 / Rahul	S12277

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	12/19/2025	06/19/2025 / Jagrut	05/24/2024 / Rahul	S12278

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31902 / CLP/SVOA Additions Mix (Atrazine, Benzaldehyde, Caprolactam) 1000ug/mL	A0206859	01/31/2026	08/12/2025 / Jagrut	05/30/2024 / Rahul	S12306

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31902 / CLP/SVOA Additions Mix (Atrazine, Benzaldehyde, Caprolactam) 1000ug/mL	A0206859	01/31/2026	08/12/2025 / Jagrut	05/30/2024 / Rahul	S12307

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	09/10/2025	03/10/2025 / anahy	07/23/2024 / RAHUL	S12486

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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	01/01/2026	07/01/2025 / Rahul	07/23/2024 / RAHUL	S12499

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	01/01/2026	07/01/2025 / Rahul	07/23/2024 / RAHUL	S12500

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	01/01/2026	07/01/2025 / Rahul	07/23/2024 / RAHUL	S12501

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	01/01/2026	07/01/2025 / Rahul	07/23/2024 / RAHUL	S12502

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	01/01/2026	07/01/2025 / Rahul	07/23/2024 / RAHUL	S12503

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	01/01/2026	07/01/2025 / Rahul	07/23/2024 / RAHUL	S12504

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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	01/01/2026	07/01/2025 / Rahul	07/23/2024 / RAHUL	S12505

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	01/01/2026	07/01/2025 / Rahul	07/23/2024 / RAHUL	S12506

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	01/01/2026	07/01/2025 / Rahul	07/23/2024 / RAHUL	S12507

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	10/10/2025	04/10/2025 / Jagrut	07/23/2024 / RAHUL	S12534

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	12/04/2025	06/04/2025 / Jagrut	07/23/2024 / RAHUL	S12545

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	01/01/2026	07/01/2025 / Rahul	07/23/2024 / RAHUL	S12546

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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	01/01/2026	07/01/2025 / Rahul	07/23/2024 / RAHUL	S12547

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	01/01/2026	07/01/2025 / Rahul	07/23/2024 / RAHUL	S12548

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	01/01/2026	07/01/2025 / Rahul	07/23/2024 / RAHUL	S12549

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	01/01/2026	07/01/2025 / Rahul	07/23/2024 / RAHUL	S12550

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	01/01/2026	07/01/2025 / Rahul	07/23/2024 / RAHUL	S12551

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	01/01/2026	07/01/2025 / Rahul	07/23/2024 / RAHUL	S12552

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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	31615 / SV Mixture, GC/MS Tuning Mixture, CH2Cl2, 1mL,	A0212955	06/30/2027	03/31/2025 / Rahul	08/01/2024 / Rahul	S12577

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	04/30/2030	04/07/2025 / anahy	09/20/2024 / anahy	S12658

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	12/16/2025	06/16/2025 / anahy	09/20/2024 / anahy	S12670

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31900 / SOM01.1 Mega Mix, 500-1000 ug/ml	A0215529	02/12/2026	08/12/2025 / Jagrut	10/08/2024 / anahy	S12739

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	90494 / 1-Methylnaphthalene, 2000 ug/mL, in methylene chloride	061323	02/12/2026	08/12/2025 / Jagrut	11/08/2024 / anahy	S12776

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	09/10/2025	03/10/2025 / anahy	12/11/2024 / anahy	S12974

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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	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0219438	09/30/2025	07/01/2025 / Rahul	12/11/2024 / anahy	S12987

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	09/30/2025	07/01/2025 / Rahul	12/11/2024 / anahy	S12988

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	09/30/2025	07/01/2025 / Rahul	12/11/2024 / anahy	S12989

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	09/30/2025	07/01/2025 / Rahul	12/11/2024 / anahy	S12990

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	09/30/2025	07/01/2025 / Rahul	12/11/2024 / anahy	S12991

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	09/30/2025	07/01/2025 / Rahul	12/11/2024 / anahy	S12992

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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 #
CPI International	Z-110816-01 / Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL, (Maximum Expiration: 180 Days)	531243	12/19/2025	06/19/2025 / Jagrut	01/16/2025 / anahy	S13057

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)	525551	11/05/2025	05/05/2025 / Jagrut	03/10/2025 / anahy	S13078

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]	A0221014	11/30/2025	07/01/2025 / Rahul	05/20/2025 / Rahul	S13088

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]	A0221014	11/30/2025	07/01/2025 / Rahul	05/20/2025 / Rahul	S13089

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]	A0201702	12/03/2025	06/03/2025 / Jagrut	11/13/2023 / Rahul	S13148

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]	A0226283	12/04/2025	06/04/2025 / Jagrut	06/04/2025 / Rahul	S13158

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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	555871 / Custom Standard, 4-nitrophenol Std [CS 5238-4]	A0226283	01/01/2026	07/01/2025 / Rahul	06/04/2025 / Rahul	S13159

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	A0224359	02/11/2026	08/11/2025 / Rahul	06/02/2025 / anahy	S13170

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	A0224359	03/31/2031	/	06/02/2025 / anahy	S13171

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]	A0226493	01/01/2026	07/01/2025 / Rahul	06/11/2025 / anahy	S13206

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]	A0226493	02/12/2026	08/12/2025 / Jagrut	06/11/2025 / anahy	S13207

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	70434 / Acetophenone, Single compound solution, 1000 PPM	121622	12/19/2025	06/19/2025 / Rahul	06/19/2025 / Rahul	S13208

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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 #
Absolute Standards, Inc.	91126 / Benzoic acid 2000 ug/mL	060625	12/19/2025	06/19/2025 / Rahul	06/19/2025 / Rahul	S13209

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	90495 / 1,1-Biphenyl 2000 ug/mL	042325	12/19/2025	06/19/2025 / Rahul	06/19/2025 / Rahul	S13210

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	34571 / 1,2,4,5-Tetrachlorobenzene 5000 ug/mL	092324	12/19/2025	06/19/2025 / Rahul	06/19/2025 / Rahul	S13211

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31879 / Benzoic Acid, 2000 µg/mL, Methylene Chloride, 1 mL/ampul	A0221395	02/12/2026	08/12/2025 / Jagrut	07/10/2025 / anahy	S13214

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	582978 / Custom Calibration Standard - C8 2,000µg/mL, Methylene chloride, 1mL/ampul, Chromatographic, CS-347186	A0228192	02/12/2026	08/12/2025 / Jagrut	08/01/2025 / Rahul	S13233

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-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

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.

PRODUCTOS QUIMICOS MONTERREY, S.A. DE C.V.

MIRADOR 201, COL. MIRADOR
MONTERREY, N.L. MÉXICO
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:	MAY/23/2024
LOT NUMBER :	417203		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na_2SO_4)	Min. 99.0%	99.8 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.2
Insoluble matter	Max. 0.01%	0.001 %
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%	0.001 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.001 %
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%	0.2 %
Retained on US Standard No. 60 sieve	Min. 94%	96.2 %
Through US Standard No. 60 sieve	Max. 5%	3.5 %
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.

RE-02-01, Ed. 3

E 3875

PO: PO2-1308 PRODUCT CODE: SHIP DATE: 2/7/25

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 3926

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.: 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 RS

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3932

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.: 25A2862010
Manufactured Date: 2024-12-18
Expiration Date:2026-03-19
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 %	99.9 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.3 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

E3942

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

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

Recd by RS 6/19/25

E3946

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

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

Read on 7/2/25

E3949

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

VWR® BDH® CHEMICALS

Certificate of Analysis

Material	BDH9274-2.5KG
Material Description	BDH SAND STDD OTTAWA W+I 2.5KG
Grade	NOT APPLICABLE
Batch	25A2756718
Reassay Date	12/31/2028
CAS Number	14808-60-7
Molecular Formula	SiO2
Molecular Mass	60.09
Date of Manufacture	12/05/2024
Storage	Room Temperature

Characteristics	Specifications	Measured Values
Appearance	Beige granules.	Beige granules.
Moisture	<= 0.1 %	0.1 %
Particle Size 30-40 mesh	>= 80 %	99 %
CUSTOMER PART # BDH9274-2.5KG		

Received on 7/9/25.

E3951

Internal ID #: 793

Signature	Additional Information
We certify that this batch conforms to the specifications listed above.	Analysis may have been rounded to significant digits in specification limits
This document has been electronically produced and is valid without a signature.	Product meets analytical specifications of the grades listed.
Leona Edwardson, Quality Control Sr. Manager - Solon VWR Chemicals, LLC. 28600 Fountain Parkway, Solon OH 44139 USA	

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™ | J.T.Baker

Material No.: 9266-A4
Batch No.: 25B1862001
Manufactured Date: 2024-12-18
Expiration Date:2026-03-19
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 %	99.9 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.3 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

RS 7/14/25

E3954

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

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. : 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

S11484 ↓ S11493 Y.P. 08/10/23

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.

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Fax: 1-814-353-1309

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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. : 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.
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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.)

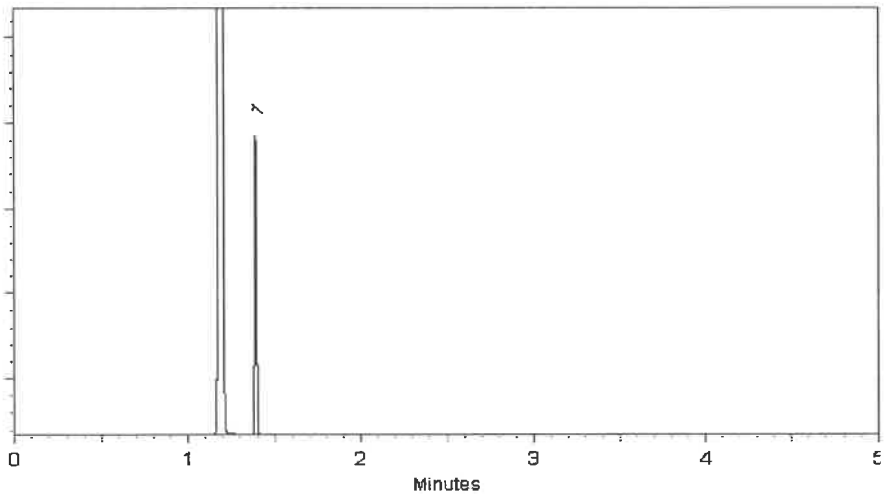
Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID

Split Vent:
100 ml/min.

Inj. Vol
1µl



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.
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- 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:

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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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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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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.

Catalog No. : 31853 **Lot No.:** A0200655

Description : 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2028 **Storage:** 0°C or colder

Ship: Ambient

S11795 ↓ S11808 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	SHBQ1693	99%	2,007.0 µg/mL	+/- 24.9775

* 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.)

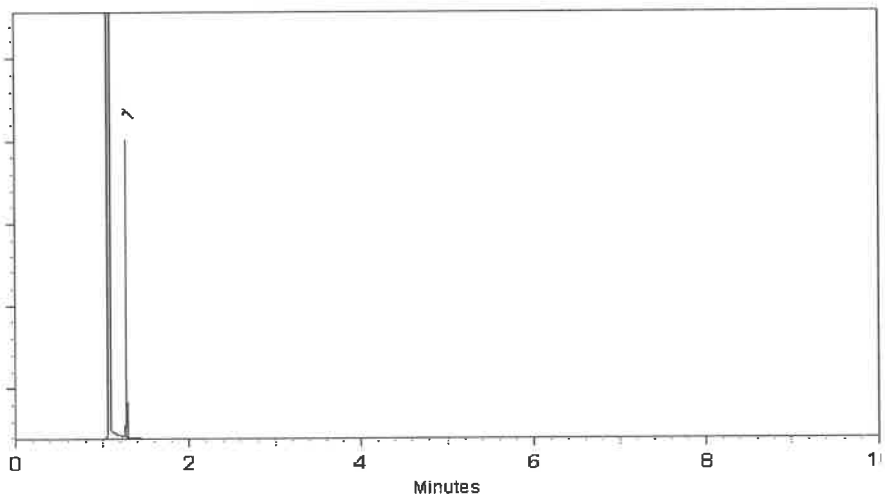
Inj. Temp:
250°C

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.

Penelope Riglin - Operations Tech I

Date Mixed: 06-Aug-2023 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 08-Aug-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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Certified Uncertainty Value Notes:

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Manufacturing Notes:

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Handling Notes:

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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.

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.:** A0200655

Description : 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2028 **Storage:** 0°C or colder

Ship: Ambient

S11795 ↓ S11808 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	SHBQ1693	99%	2,007.0 µg/mL	+/- 24.9775

* 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.)

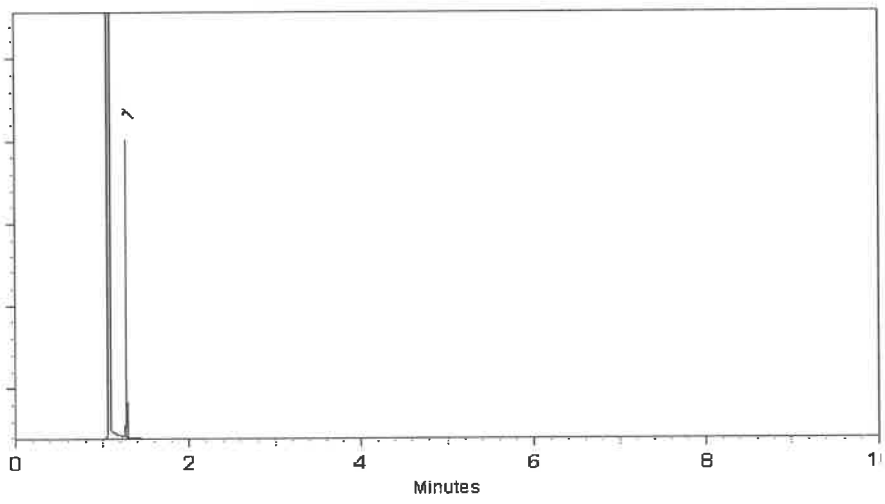
Inj. Temp:
250°C

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.

Penelope Riglin - Operations Tech I

Date Mixed: 06-Aug-2023 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 08-Aug-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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- 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:

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

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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. : 31853 **Lot No.:** A0200655

Description : 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2028 **Storage:** 0°C or colder

Ship: Ambient

S11795 ↓ S11808 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	SHBQ1693	99%	2,007.0 µg/mL	+/- 24.9775

* 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
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Carrier Gas:
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Temp. Program:
80°C (hold 0.1 min.) to 330°C
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Det. Temp:
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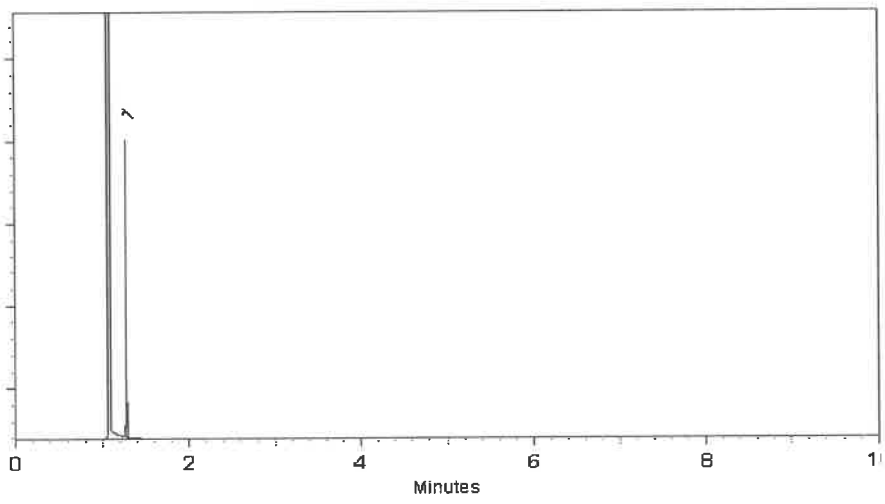
Det. Type:
FID

Split Vent:
100 ml/min.

Inj. Vol
1µl



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Penelope Riglin - Operations Tech I

Date Mixed: 06-Aug-2023 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 08-Aug-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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CERTIFIED REFERENCE MATERIAL

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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. : 31853 **Lot No.:** A0200655

Description : 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2028 **Storage:** 0°C or colder

Ship: Ambient

S11795 ↓ S11808 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	SHBQ1693	99%	2,007.0 µg/mL	+/- 24.9775

* 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.)

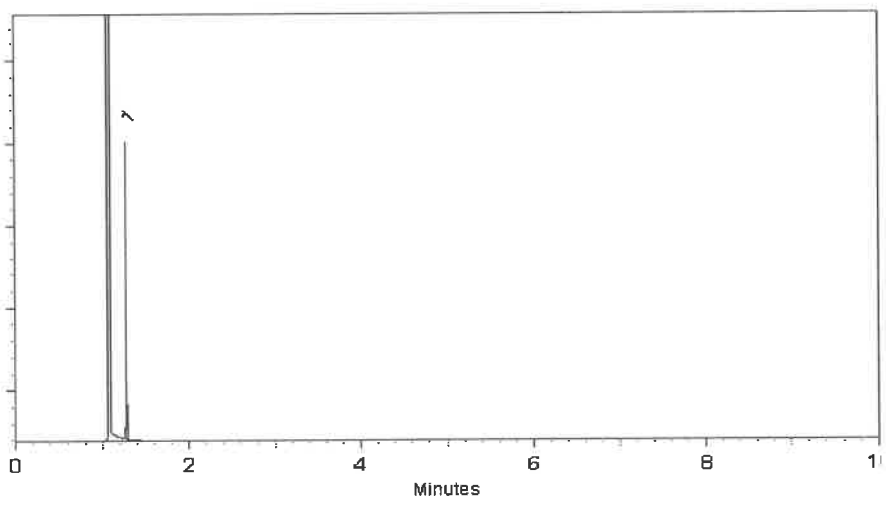
Inj. Temp:
250°C

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.

Penelope Riglin - Operations Tech I

Date Mixed: 06-Aug-2023 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 08-Aug-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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Certificate of Analysis

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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.

Catalog No. : 31853 **Lot No.:** A0200655

Description : 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2028 **Storage:** 0°C or colder

Ship: Ambient

S11795 ↓ S11808 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	SHBQ1693	99%	2,007.0 µg/mL	+/- 24.9775

* 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.)

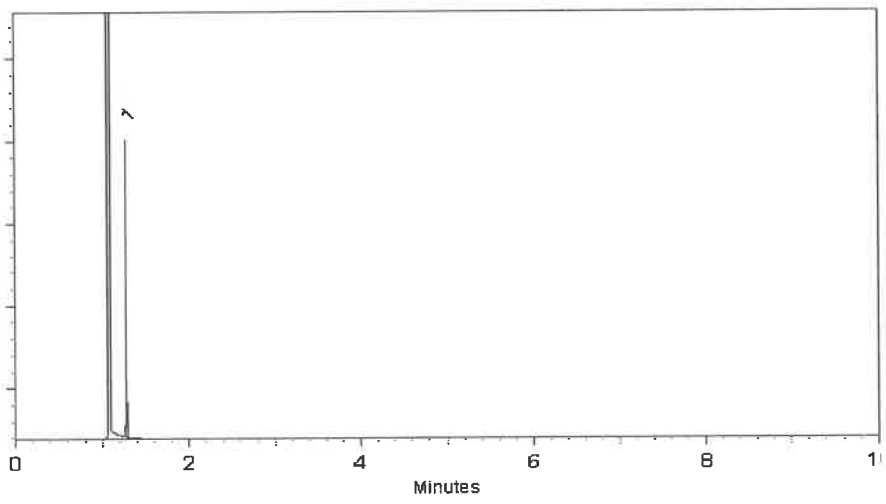
Inj. Temp:
250°C

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.

Penelope Riglin - Operations Tech I

Date Mixed: 06-Aug-2023 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 08-Aug-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.

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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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. : 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.)

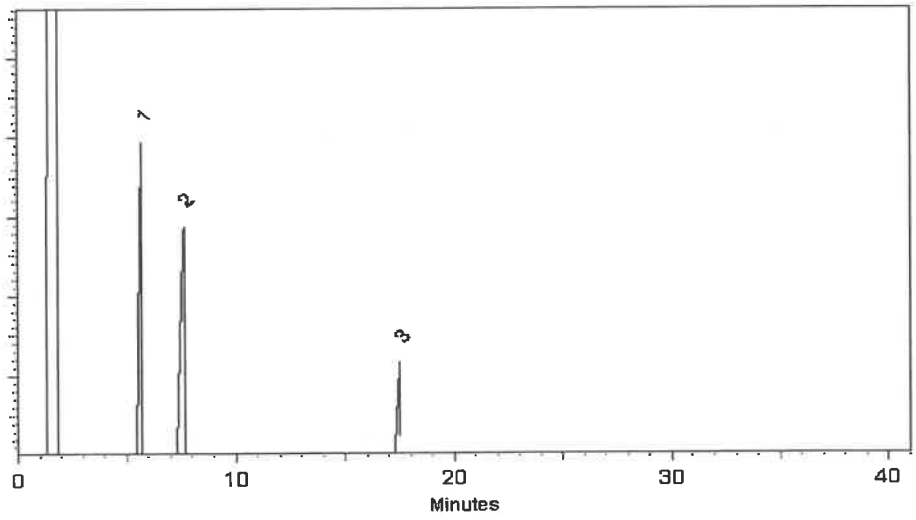
Inj. Temp:
250°C

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

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.)

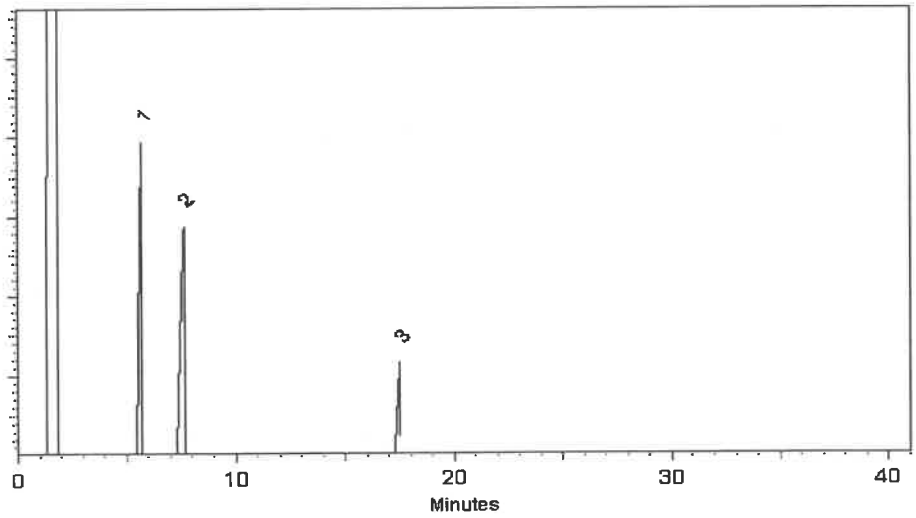
Inj. Temp:
250°C

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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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.)

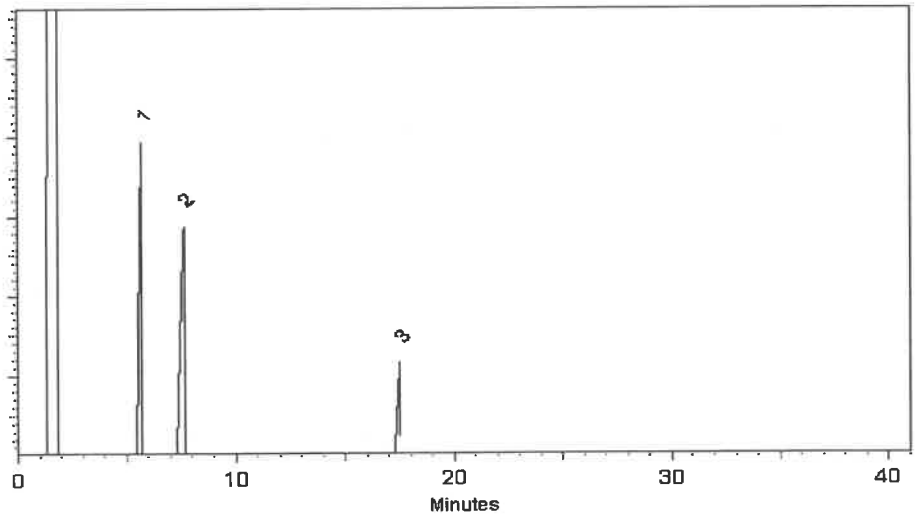
Inj. Temp:
250°C

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

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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.)

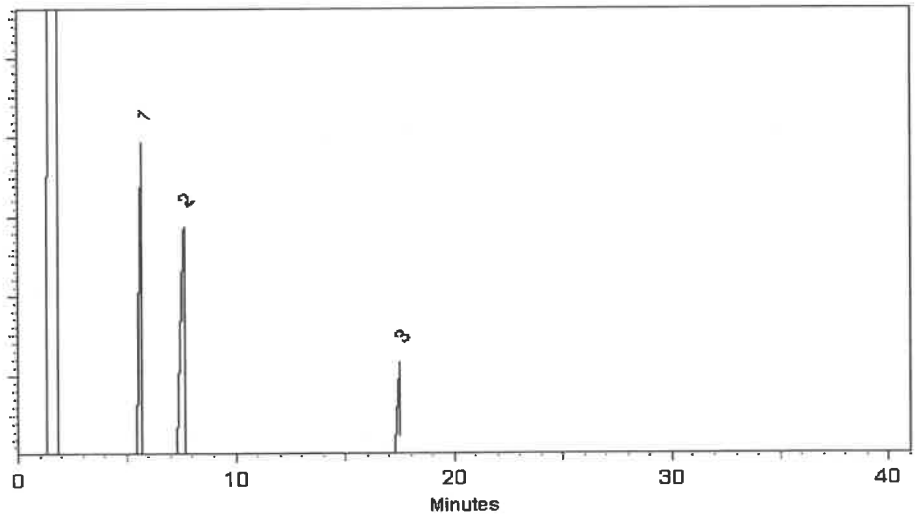
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



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

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.)

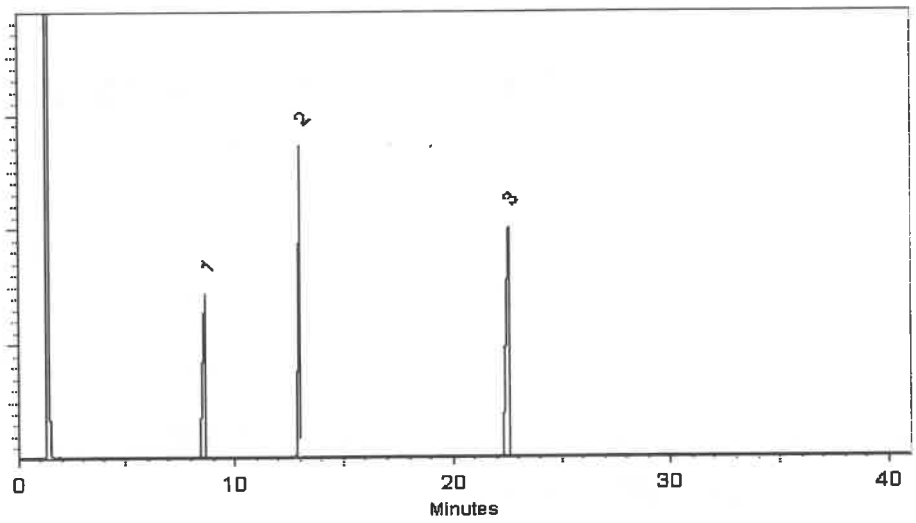
Inj. Temp:
250°C

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

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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.)

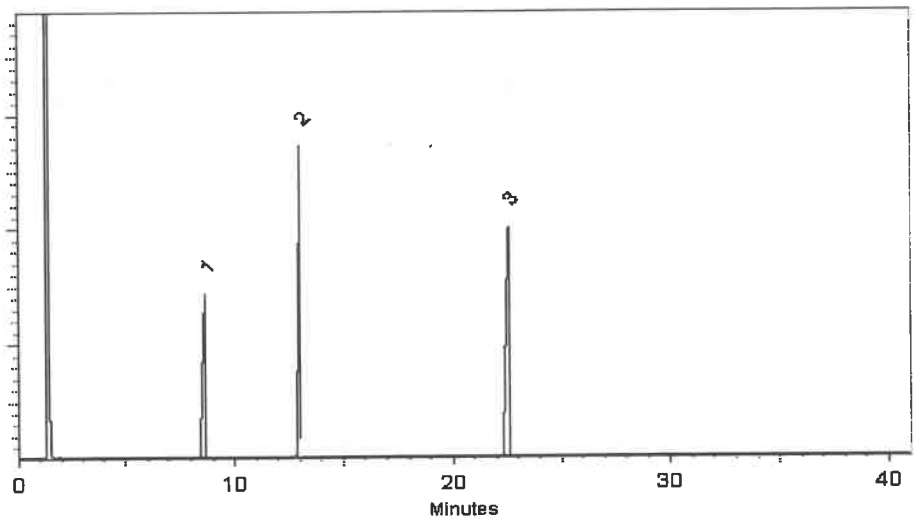
Inj. Temp:
250°C

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

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Fax: 1-814-353-1309

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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.)

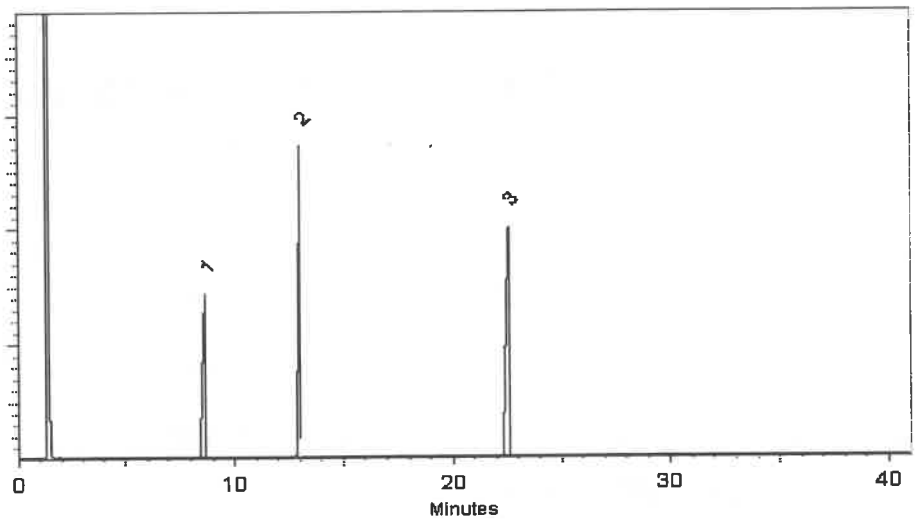
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



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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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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.)

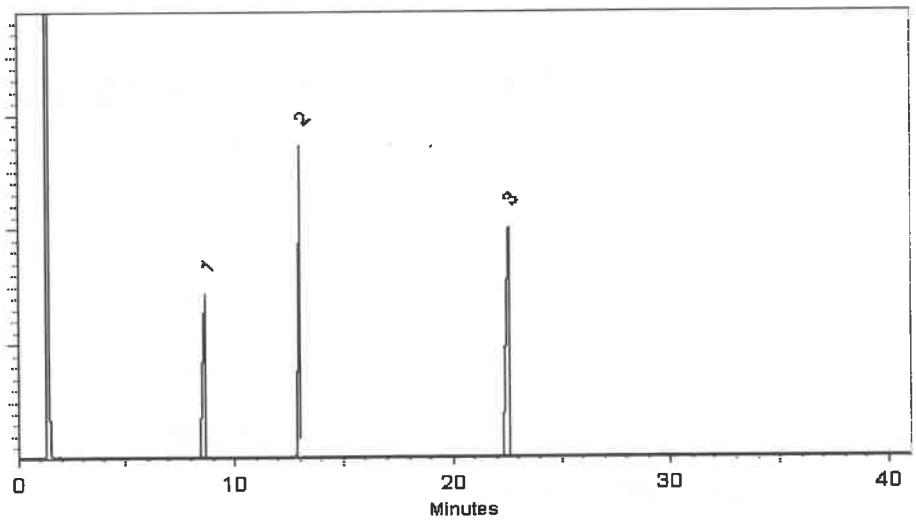
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



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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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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.)

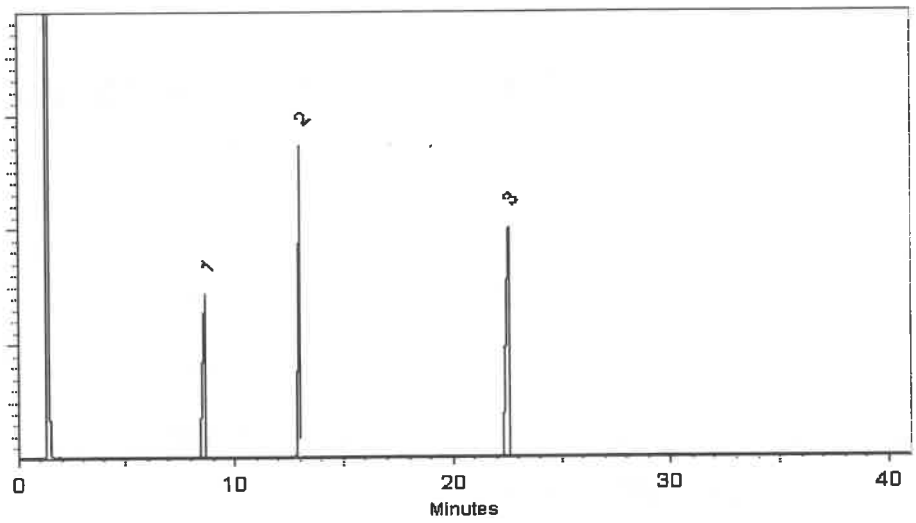
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



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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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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. : 30409 **Lot No.:** A0206650

Description : Pyridine Standard

Pyridine 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : October 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

S12242 ↓ S12254 RC/ 5/15/24

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%	2,020.0 µg/mL	+/- 33.0924

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

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.)

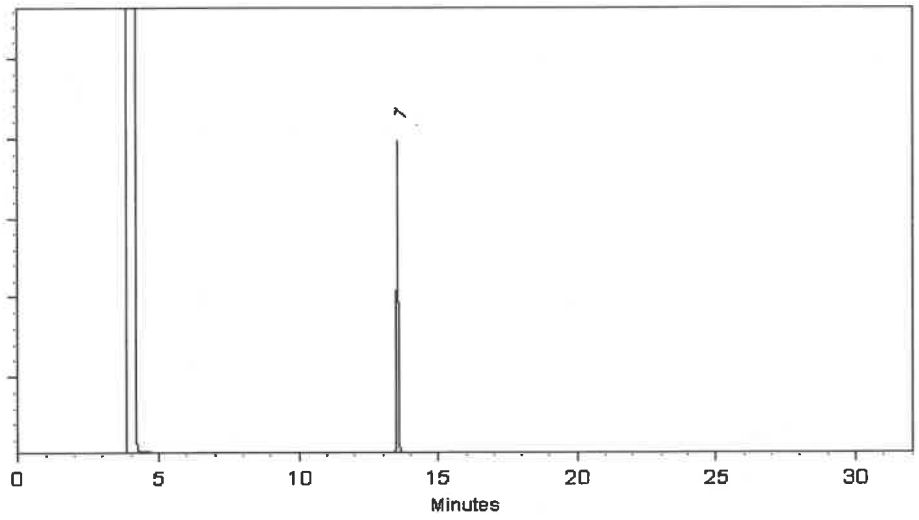
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 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: 16-Jan-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 18-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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(707)545-7901 Fax

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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

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
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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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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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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ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

chromatographic plus

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Catalog No. : 31902 **Lot No.:** A0206859

Description : Additions Standard

Additions Standard 1000 µg/mL, Methylene Chloride, 1mL/ampul

S12302 ↓ S12311 RC 5/30/24

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : January 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,005.0 µg/mL	+/- 29.5419
2	epsilon-Caprolactam	105-60-2	I16X016	99%	1,008.8 µg/mL	+/- 29.6521
3	Atrazine	1912-24-9	5FYWL	99%	1,008.8 µg/mL	+/- 29.6521

* 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.)

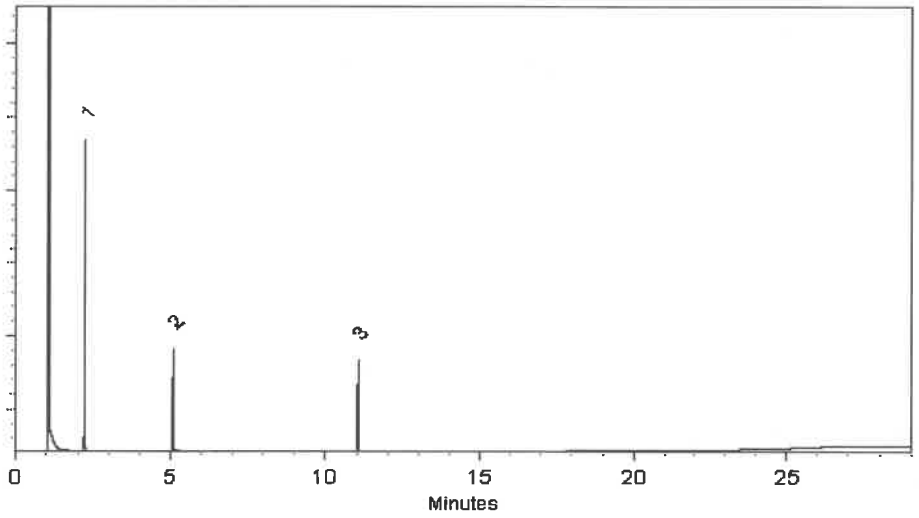
Inj. Temp:
250°C

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.

Stacey Wanner - Operations Technician I

Date Mixed: 23-Jan-2024 **Balance Serial #** B442140311

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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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.

S12302 ↓ S12311 RC 5/30/24

Catalog No. : 31902 **Lot No.:** A0206859

Description : Additions Standard

Additions Standard 1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : January 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,005.0 µg/mL	+/- 29.5419
2	epsilon-Caprolactam	105-60-2	I16X016	99%	1,008.8 µg/mL	+/- 29.6521
3	Atrazine	1912-24-9	5FYWL	99%	1,008.8 µg/mL	+/- 29.6521

* 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.)

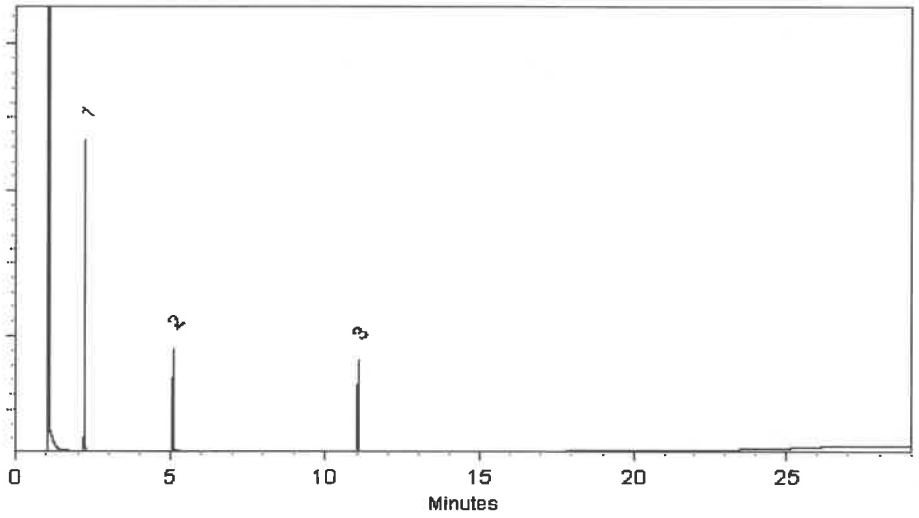
Inj. Temp:
250°C

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.

Stacey Wanner - Operations Technician I

Date Mixed: 23-Jan-2024 **Balance Serial #** B442140311

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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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)
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:

- 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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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:

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Purity Notes:

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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.

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- 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. : 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:

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Purity 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:

- 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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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.
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- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

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- 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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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.
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Purity Notes:

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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:

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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:

- 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

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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. : 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

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- 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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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.

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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

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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. : 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
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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

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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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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

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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)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
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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:

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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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Purity 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
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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
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

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- 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.
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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. : 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.
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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
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
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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)
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
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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

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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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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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
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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
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Certificate of Analysis

chromatographic plus

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Catalog No. : 31615 **Lot No.:** A0212955

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 : June 30, 2027 **Storage:** 10°C or colder

Handling: Contains carcinogen/reproductive toxin. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,004.5 µg/mL	+/- 44.8902
2	DFTPP (Decafluorotriphenylphosphine)	5074-71-5	Q117-147	99%	1,004.5 µg/mL	+/- 44.8902
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 44.9572
4	4,4'-DDT	50-29-3	S240530RSR	97%	1,000.1 µg/mL	+/- 44.6922

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12577 ↓ S12579 RC 8/2/24

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.)

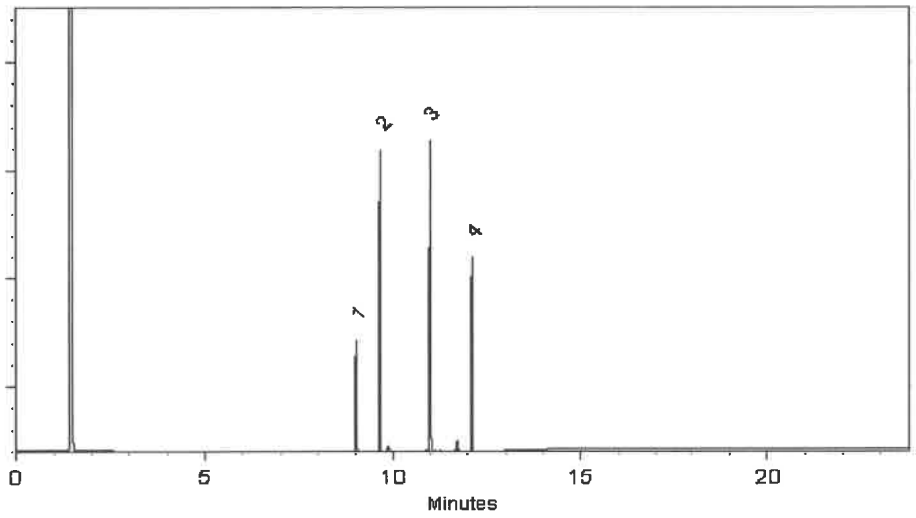
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



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.

Ethan Winiarski - Operations Tech I

Date Mixed: 19-Jun-2024 **Balance Serial #** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 26-Jun-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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Reference Material Producer
Certificate #3222.01

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. : 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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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. : 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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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. : 31900 **Lot No.:** A0215529

Description : OLM 01.1 Revised SV MegaMix

OLM 01.1 Revised SV MegaMix 500-1000 µg/mL, Methylene chloride, 1mL/ampul

S12736 ↓ S12754 AC 10/9/24

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 28, 2026 **Storage:** 0°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	Phenol	108-95-2	MKCK1120	99%	1,008.6 µg/mL	+/- 19.3211
2	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,002.3 µg/mL	+/- 19.2013
3	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.2 µg/mL	+/- 19.2564
4	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,006.3 µg/mL	+/- 19.2768
5	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,009.3 µg/mL	+/- 19.3354
6	Acetophenone	98-86-2	STBH8205	99%	1,003.8 µg/mL	+/- 18.5851
7	Hexachloroethane	67-72-1	QTORH	99%	1,000.6 µg/mL	+/- 19.1690
8	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,004.5 µg/mL	+/- 19.2599
9	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	500.3 µg/mL	+/- 9.5854
10	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.1 µg/mL	+/- 9.6213
11	Nitrobenzene	98-95-3	10224044	99%	1,003.2 µg/mL	+/- 19.2181
12	Isophorone	78-59-1	MKCC9506	99%	1,007.0 µg/mL	+/- 19.2911
13	2-Nitrophenol	88-75-5	RP230509C	99%	1,003.4 µg/mL	+/- 19.2217
14	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,008.1 µg/mL	+/- 19.3115
15	Bis(2-chloroethoxy)methane	111-91-1	15174900	99%	1,002.3 µg/mL	+/- 19.2001
16	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,002.3 µg/mL	+/- 19.2001

17	Naphthalene	91-20-3	STBL1057	99%	1,003.6	µg/mL	+/- 19.2253
18	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,005.5	µg/mL	+/- 19.2791
19	Hexachlorobutadiene	87-68-3	RP240110CTH	97%	1,003.9	µg/mL	+/- 19.2316
20	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,005.1	µg/mL	+/- 19.2718
21	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.8	µg/mL	+/- 19.2301
22	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,000.5	µg/mL	+/- 19.1832
23	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,001.3	µg/mL	+/- 19.1811
24	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,004.1	µg/mL	+/- 19.2349
25	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,008.6	µg/mL	+/- 19.3221
26	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,002.3	µg/mL	+/- 19.2001
27	Biphenyl	92-52-4	MKCS5928	99%	1,001.3	µg/mL	+/- 18.5388
28	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,000.5	µg/mL	+/- 19.1832
29	Acenaphthylene	208-96-8	214935V16F	97%	999.9	µg/mL	+/- 19.1561
30	Dimethylphthalate	131-11-3	358221L17K	99%	1,005.8	µg/mL	+/- 19.2672
31	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,001.2	µg/mL	+/- 19.1798
32	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/- 19.1570
33	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,005.5	µg/mL	+/- 19.2791
34	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,008.8	µg/mL	+/- 19.3259
35	Dibenzofuran	132-64-9	MKCD9952	99%	1,002.5	µg/mL	+/- 18.5619
36	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,002.5	µg/mL	+/- 19.2049
37	4-Nitrophenol	100-02-7	RP230627	99%	1,004.4	µg/mL	+/- 19.2421
38	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,001.5	µg/mL	+/- 19.2024
39	Fluorene	86-73-7	10241100	99%	1,004.2	µg/mL	+/- 19.2373
40	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,003.0	µg/mL	+/- 19.2145
41	Diethylphthalate	84-66-2	BCCJ6241	99%	1,002.1	µg/mL	+/- 19.1978
42	4-Nitroaniline	100-01-6	RP240510RSR	99%	1,005.0	µg/mL	+/- 19.2695
43	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S240410RSR	99%	1,001.1	µg/mL	+/- 19.1786
44	Diphenylamine	122-39-4	MKCT1512	99%	1,004.5	µg/mL	+/- 19.2599
45	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,005.9	µg/mL	+/- 19.2708
46	Hexachlorobenzene	118-74-1	15458400	99%	1,009.2	µg/mL	+/- 19.3331
47	Pentachlorophenol	87-86-5	RP240411RSR	99%	1,008.9	µg/mL	+/- 19.3283
48	Phenanthrene	85-01-8	MKCS5188	99%	1,006.2	µg/mL	+/- 19.2756
49	Anthracene	120-12-7	101492T18R	99%	1,001.6	µg/mL	+/- 19.1882
50	Carbazole	86-74-8	15276700	99%	1,004.0	µg/mL	+/- 19.2503
51	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,002.5	µg/mL	+/- 19.2049
52	Fluoranthene	206-44-0	MKCQ4728	99%	1,008.7	µg/mL	+/- 19.3235

53	Pyrene	129-00-0	BCCK2592	99%	1,002.9	µg/mL	+/- 19.2121
54	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,004.6	µg/mL	+/- 19.2444
55	Benz(a)anthracene	56-55-3	I50012022BAA	99%	1,009.1	µg/mL	+/- 19.3307
56	Chrysene	218-01-9	RP240719RSR	99%	1,005.9	µg/mL	+/- 19.2708
57	3,3'-Dichlorobenzidine	91-94-1	S231019RSR	99%	1,001.5	µg/mL	+/- 19.2024
58	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,006.3	µg/mL	+/- 19.2768
59	Di-n-octyl phthalate	117-84-0	15276800	99%	1,008.9	µg/mL	+/- 19.3283
60	Benzo(b)fluoranthene	205-99-2	022013B	99%	1,006.4	µg/mL	+/- 19.2792
61	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,001.9	µg/mL	+/- 19.1942
62	Benzo(a)pyrene	50-32-8	O45GL	98%	1,003.9	µg/mL	+/- 19.2327
63	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,003.7	µg/mL	+/- 19.2281
64	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,004.2	µg/mL	+/- 19.2373
65	Benzo(g,h,i)perylene	191-24-2	RP240625RSR	97%	1,001.5	µg/mL	+/- 19.1863

* 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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Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
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CERTIFIED WEIGHT REPORT

Part Number: 90494
Lot Number: 061323
Description: 1-Methylnaphthalene

Expiration Date: 061328
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 6UTB

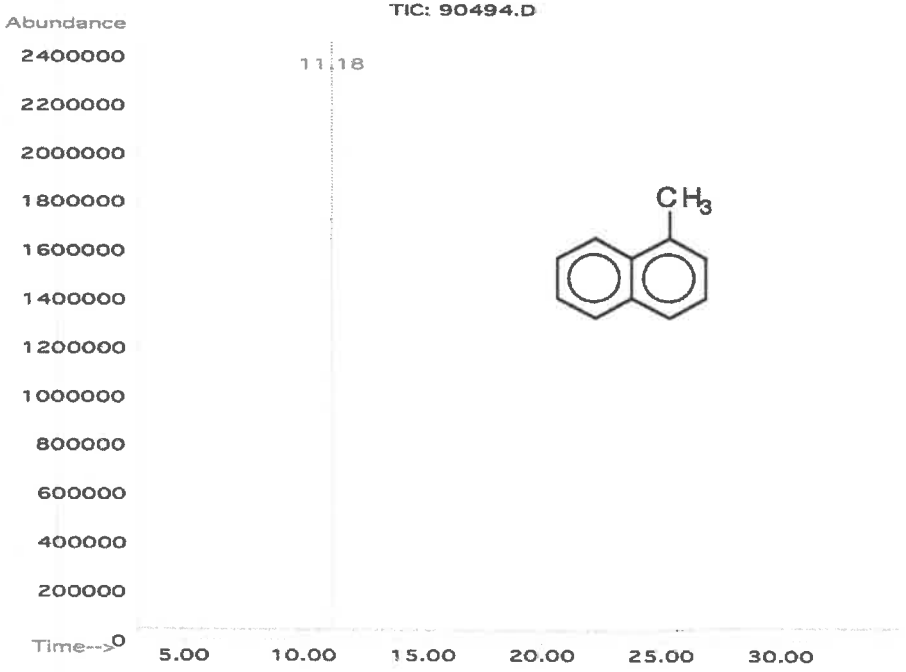
Solvent(s): **Lot#**
Methylene chloride C21F09CAS0000DCM

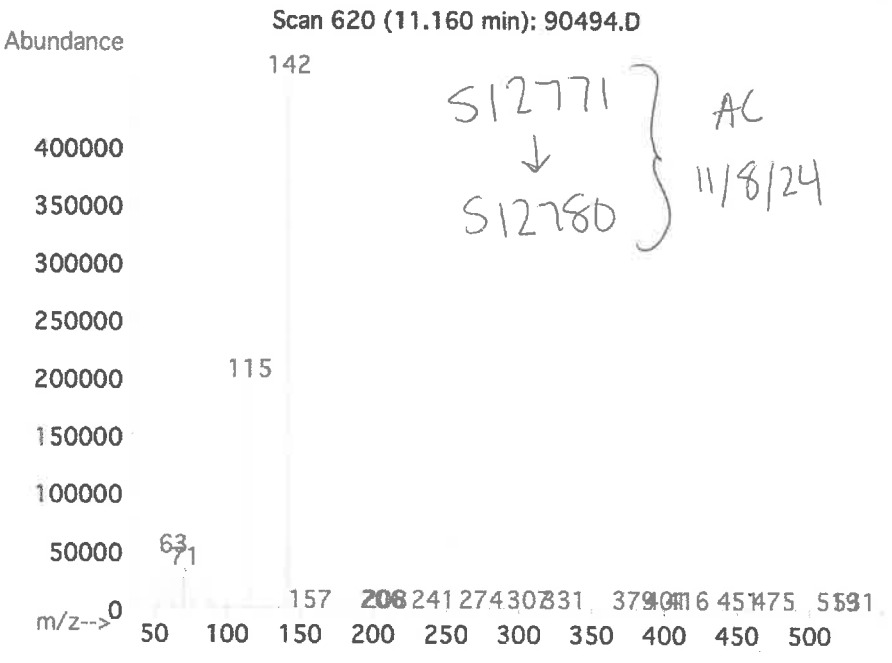
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 100.0 0.031 Flask Uncertainty

Formulated By:	Prashant Chauhan	061323 DATE
Reviewed By:	Pedro L. Rentas	061323 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 1-Methylnaphthalene	313	04413BX	2000	98	0.2	0.20417	0.20430	2001.2	8.3	90-12-0	N/A	orl-rat 1840mg/kg

Method GC8MSD-3.M: Column:SPB-5 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 50°C (1min.), Temp 2 = 300°C (9min.), Rate = 10°C/min., Injector B= 200°C, Detector B = 275°C, Split Ratio = 100:1, Scan Rate = 2. Analysis performed by: Gina McLane.





S12771 ↓ S12780 } AC 11/8/24

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

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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. : 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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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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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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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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CERTIFIED REFERENCE MATERIAL

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.:** 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.

RESTEK
110 Benner Circle
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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

S12963 → S12992 AC 12/17/24

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

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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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.

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	531243	≤ -10 °C	Methylene Chloride	1/2/2030	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	337.7.4P	997 ± 5.81
benzidine	92-87-5	99.9	124.18.6.2P	993.8 ± 5.78
caprolactam	105-60-2	99.9	271.1.6P	999 ± 5.82

513057
↓
513061
AC
1/16/25

*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: 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.

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-010074-07	525551	-18°C +/- 4°C	Methylene Chloride	9/3/2029	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	97.9	74.421.2P	994.7 ± 30.56

This RM is intended for use as a calibration standard or a quality control standard for chromatography equipment such as GC, GC/MS, HPLC, and HPLC/MS. It may also be used for various USEPA, NIOSH and ASTM methods.

Recommended storage container for ampuled products after opening is a 12 mm x 32 mm amber vial with screw cap Teflon lined silicon septum. The modeled % change per day can be calculated using the following:

$$\% \text{ Change} = 116192x^{-2.578} + 40.383e^{-0.03y}$$

where x = boiling point of the most volatile analyte in the mix (in degrees K)
y = boiling point of the solvent (in degrees K)

This model assumes the container is stored at -10 °C and is unopened during storage. The user should determine what the acceptable error for their process is and calculate the maximum number of days the opened ampule should be stored. The minimum sample size recommended for use is 1µL.

513078 ↓ 513087 } AC 3/10/25

Manufactured by

Raevyn Steele
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.

*Not a certified valu

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

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. : 31850 **Lot No.:** A0221014

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S13088 ↓ S13117 RC 5/20/25.

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBR4811	99%	1,005.2 µg/mL	+/- 36.5730
2	N-Nitrosodimethylamine	62-75-9	S241226RSR	99%	1,005.5 µg/mL	+/- 36.5848
3	Phenol	108-95-2	MKCK1120	99%	1,005.3 µg/mL	+/- 36.5780
4	Aniline	62-53-3	X22F726	99%	1,005.4 µg/mL	+/- 36.5816
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,004.7 µg/mL	+/- 36.5562
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.3 µg/mL	+/- 36.5766
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.6 µg/mL	+/- 36.5530
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,006.3 µg/mL	+/- 36.6125
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,005.5 µg/mL	+/- 36.5853
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,004.6 µg/mL	+/- 36.5507
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,004.8 µg/mL	+/- 36.5575
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,005.4 µg/mL	+/- 36.5803
13	3-Methylphenol (m-cresol)	108-39-4	STBL3873	99%	502.7 µg/mL	+/- 18.2888
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	502.6 µg/mL	+/- 18.2869
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,004.6 µg/mL	+/- 36.5502
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.6 µg/mL	+/- 36.5530
17	Nitrobenzene	98-95-3	10224044	99%	1,005.3 µg/mL	+/- 36.5780

18	Isophorone	78-59-1	MKCR3249	99%	1,004.6	µg/mL	+/-	36.5511
19	2-Nitrophenol	88-75-5	RP230710	99%	1,005.7	µg/mL	+/-	36.5916
20	2,4-Dimethylphenol	105-67-9	DIRAF	99%	1,004.9	µg/mL	+/-	36.5612
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,004.3	µg/mL	+/-	36.5402
22	2,4-Dichlorophenol	120-83-2	BCCK6969	99%	1,004.7	µg/mL	+/-	36.5571
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,004.6	µg/mL	+/-	36.5516
24	Naphthalene	91-20-3	STBL1057	99%	1,006.8	µg/mL	+/-	36.6335
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,005.9	µg/mL	+/-	36.5980
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,004.1	µg/mL	+/-	36.5328
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,005.4	µg/mL	+/-	36.5793
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,006.3	µg/mL	+/-	36.6144
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	µg/mL	+/-	36.0269
30	Hexachlorocyclopentadiene	77-47-4	099063P13G	99%	1,005.9	µg/mL	+/-	36.5975
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,004.7	µg/mL	+/-	36.5566
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.7	µg/mL	+/-	36.5571
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,005.3	µg/mL	+/-	36.5757
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.8	µg/mL	+/-	36.5584
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,004.5	µg/mL	+/-	36.5475
36	Acenaphthylene	208-96-8	214935V18H	95%	1,000.1	µg/mL	+/-	36.3888
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,004.9	µg/mL	+/-	36.5616
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,004.5	µg/mL	+/-	36.5489
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,005.2	µg/mL	+/-	36.5734
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,005.9	µg/mL	+/-	36.6003
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	+/-	36.5525
43	2,4-Dinitrophenol	51-28-5	D240927RSR	99%	1,005.0	µg/mL	+/-	36.5657
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,005.4	µg/mL	+/-	36.5803
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,005.4	µg/mL	+/-	36.5803
46	4-Nitrophenol	100-02-7	20241120-1-AN	99%	1,005.7	µg/mL	+/-	36.5930
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,004.9	µg/mL	+/-	36.5616
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP240523RSR	99%	1,005.2	µg/mL	+/-	36.5739
49	Fluorene	86-73-7	10246250	98%	1,005.8	µg/mL	+/-	36.5948
50	4-Chlorophenyl phenyl ether	7005-72-3	002531K02D	99%	1,004.8	µg/mL	+/-	36.5584
51	Diethylphthalate	84-66-2	STBL3611	99%	1,005.3	µg/mL	+/-	36.5762
52	4-Nitroaniline	100-01-6	RP240830RSR	99%	1,005.5	µg/mL	+/-	36.5844
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	1,004.8	µg/mL	+/-	36.5589

54	Diphenylamine	122-39-4	MKCT1512	99%	1,005.2	µg/mL	+/- 36.5725
55	Azobenzene	103-33-3	BCCL3292	99%	1,004.7	µg/mL	+/- 36.5566
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,005.6	µg/mL	+/- 36.5875
57	Hexachlorobenzene	118-74-1	15828800	99%	1,005.3	µg/mL	+/- 36.5789
58	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,005.4	µg/mL	+/- 36.5825
59	Phenanthrene	85-01-8	MKCT3391	99%	1,004.8	µg/mL	+/- 36.5584
60	Anthracene	120-12-7	MKCW9141	99%	1,005.5	µg/mL	+/- 36.5834
61	Carbazole	86-74-8	15630800	99%	1,005.3	µg/mL	+/- 36.5789
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,005.5	µg/mL	+/- 36.5848
63	Fluoranthene	206-44-0	A0458721	99%	1,005.4	µg/mL	+/- <0.0001
64	Pyrene	129-00-0	BCCL8032	99%	1,005.2	µg/mL	+/- 36.5734
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,004.8	µg/mL	+/- 36.5584
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCR8567	99%	1,004.5	µg/mL	+/- 36.5480
67	Benz(a)anthracene	56-55-3	I60012022BAA	99%	1,005.5	µg/mL	+/- 36.5844
68	Chrysene	218-01-9	RP241212RSR	99%	1,005.5	µg/mL	+/- 36.5848
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,004.7	µg/mL	+/- 36.5548
70	Di-n-octyl phthalate	117-84-0	15817300	99%	1,004.8	µg/mL	+/- 36.5607
71	Benzo(b)fluoranthene	205-99-2	022013B	99%	1,005.1	µg/mL	+/- 36.5716
72	Benzo(k)fluoranthene	207-08-9	012022K	98%	1,004.6	µg/mL	+/- 36.5511
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,004.2	µg/mL	+/- 36.5377
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,004.1	µg/mL	+/- 36.5337
75	Dibenz(a,h)anthracene	53-70-3	712061504-1-1	99%	1,005.7	µg/mL	+/- 36.5930
76	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,005.4	µg/mL	+/- 36.5814

* 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.

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.)

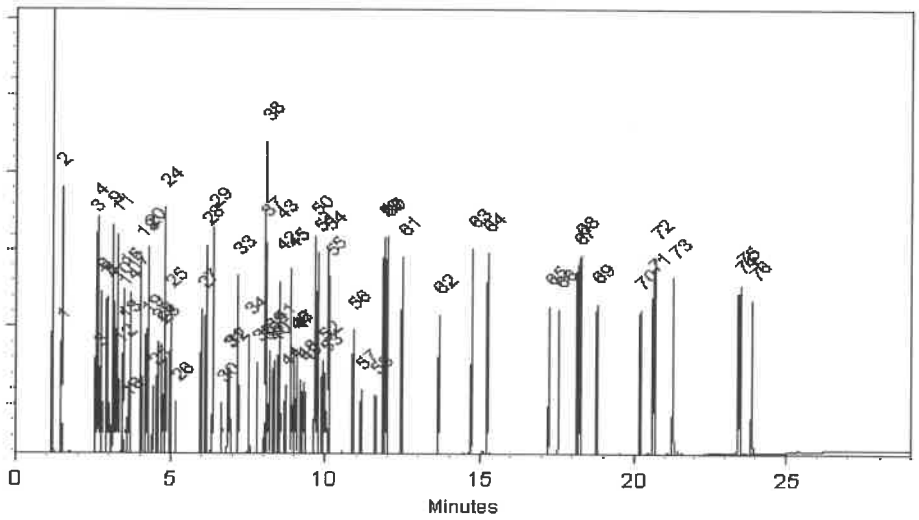
Inj. Temp:
250°C

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.

Penelope Riglin - Operations Tech I

Date Mixed: 12-Jan-2025 **Balance Serial #** 1128360905

Dillan Murphy - Operations Technician I

Date Passed: 21-Jan-2025

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

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.:** A0221014

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S13088 ↓ S13117 RC 5/20/25.

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBR4811	99%	1,005.2 µg/mL	+/- 36.5730
2	N-Nitrosodimethylamine	62-75-9	S241226RSR	99%	1,005.5 µg/mL	+/- 36.5848
3	Phenol	108-95-2	MKCK1120	99%	1,005.3 µg/mL	+/- 36.5780
4	Aniline	62-53-3	X22F726	99%	1,005.4 µg/mL	+/- 36.5816
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,004.7 µg/mL	+/- 36.5562
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.3 µg/mL	+/- 36.5766
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.6 µg/mL	+/- 36.5530
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,006.3 µg/mL	+/- 36.6125
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,005.5 µg/mL	+/- 36.5853
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,004.6 µg/mL	+/- 36.5507
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,004.8 µg/mL	+/- 36.5575
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,005.4 µg/mL	+/- 36.5803
13	3-Methylphenol (m-cresol)	108-39-4	STBL3873	99%	502.7 µg/mL	+/- 18.2888
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	502.6 µg/mL	+/- 18.2869
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,004.6 µg/mL	+/- 36.5502
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.6 µg/mL	+/- 36.5530
17	Nitrobenzene	98-95-3	10224044	99%	1,005.3 µg/mL	+/- 36.5780

18	Isophorone	78-59-1	MKCR3249	99%	1,004.6	µg/mL	+/-	36.5511
19	2-Nitrophenol	88-75-5	RP230710	99%	1,005.7	µg/mL	+/-	36.5916
20	2,4-Dimethylphenol	105-67-9	DIRAF	99%	1,004.9	µg/mL	+/-	36.5612
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,004.3	µg/mL	+/-	36.5402
22	2,4-Dichlorophenol	120-83-2	BCCK6969	99%	1,004.7	µg/mL	+/-	36.5571
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,004.6	µg/mL	+/-	36.5516
24	Naphthalene	91-20-3	STBL1057	99%	1,006.8	µg/mL	+/-	36.6335
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,005.9	µg/mL	+/-	36.5980
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,004.1	µg/mL	+/-	36.5328
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,005.4	µg/mL	+/-	36.5793
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,006.3	µg/mL	+/-	36.6144
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	µg/mL	+/-	36.0269
30	Hexachlorocyclopentadiene	77-47-4	099063P13G	99%	1,005.9	µg/mL	+/-	36.5975
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,004.7	µg/mL	+/-	36.5566
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.7	µg/mL	+/-	36.5571
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,005.3	µg/mL	+/-	36.5757
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.8	µg/mL	+/-	36.5584
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,004.5	µg/mL	+/-	36.5475
36	Acenaphthylene	208-96-8	214935V18H	95%	1,000.1	µg/mL	+/-	36.3888
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,004.9	µg/mL	+/-	36.5616
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,004.5	µg/mL	+/-	36.5489
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,005.2	µg/mL	+/-	36.5734
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,005.9	µg/mL	+/-	36.6003
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	+/-	36.5525
43	2,4-Dinitrophenol	51-28-5	D240927RSR	99%	1,005.0	µg/mL	+/-	36.5657
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,005.4	µg/mL	+/-	36.5803
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,005.4	µg/mL	+/-	36.5803
46	4-Nitrophenol	100-02-7	20241120-1-AN	99%	1,005.7	µg/mL	+/-	36.5930
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,004.9	µg/mL	+/-	36.5616
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP240523RSR	99%	1,005.2	µg/mL	+/-	36.5739
49	Fluorene	86-73-7	10246250	98%	1,005.8	µg/mL	+/-	36.5948
50	4-Chlorophenyl phenyl ether	7005-72-3	002531K02D	99%	1,004.8	µg/mL	+/-	36.5584
51	Diethylphthalate	84-66-2	STBL3611	99%	1,005.3	µg/mL	+/-	36.5762
52	4-Nitroaniline	100-01-6	RP240830RSR	99%	1,005.5	µg/mL	+/-	36.5844
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	1,004.8	µg/mL	+/-	36.5589

54	Diphenylamine	122-39-4	MKCT1512	99%	1,005.2	µg/mL	+/- 36.5725
55	Azobenzene	103-33-3	BCCL3292	99%	1,004.7	µg/mL	+/- 36.5566
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,005.6	µg/mL	+/- 36.5875
57	Hexachlorobenzene	118-74-1	15828800	99%	1,005.3	µg/mL	+/- 36.5789
58	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,005.4	µg/mL	+/- 36.5825
59	Phenanthrene	85-01-8	MKCT3391	99%	1,004.8	µg/mL	+/- 36.5584
60	Anthracene	120-12-7	MKCW9141	99%	1,005.5	µg/mL	+/- 36.5834
61	Carbazole	86-74-8	15630800	99%	1,005.3	µg/mL	+/- 36.5789
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,005.5	µg/mL	+/- 36.5848
63	Fluoranthene	206-44-0	A0458721	99%	1,005.4	µg/mL	+/- <0.0001
64	Pyrene	129-00-0	BCCL8032	99%	1,005.2	µg/mL	+/- 36.5734
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,004.8	µg/mL	+/- 36.5584
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCR8567	99%	1,004.5	µg/mL	+/- 36.5480
67	Benz(a)anthracene	56-55-3	I60012022BAA	99%	1,005.5	µg/mL	+/- 36.5844
68	Chrysene	218-01-9	RP241212RSR	99%	1,005.5	µg/mL	+/- 36.5848
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,004.7	µg/mL	+/- 36.5548
70	Di-n-octyl phthalate	117-84-0	15817300	99%	1,004.8	µg/mL	+/- 36.5607
71	Benzo(b)fluoranthene	205-99-2	022013B	99%	1,005.1	µg/mL	+/- 36.5716
72	Benzo(k)fluoranthene	207-08-9	012022K	98%	1,004.6	µg/mL	+/- 36.5511
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,004.2	µg/mL	+/- 36.5377
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,004.1	µg/mL	+/- 36.5337
75	Dibenz(a,h)anthracene	53-70-3	712061504-1-1	99%	1,005.7	µg/mL	+/- 36.5930
76	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,005.4	µg/mL	+/- 36.5814

* 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.

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.)

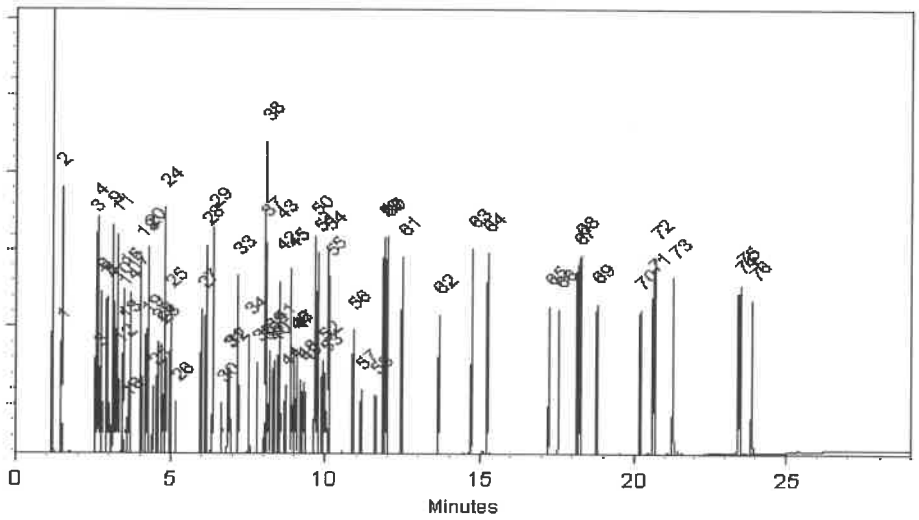
Inj. Temp:
250°C

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.

Penelope Riglin - Operations Tech I

Date Mixed: 12-Jan-2025 **Balance Serial #** 1128360905

Dillan Murphy - Operations Technician I

Date Passed: 21-Jan-2025

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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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. : 555871 **Lot No.:** A0226283

Description : Custom 4-Nitrophenol Standard

Custom 4-Nitrophenol Standard 25,000µg/mL, Methanol, 1mL/ampul

S13158 ↓ S13167 } RC/ 6/4/25

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2028 **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	4-Nitrophenol	100-02-7	20241120-1-AN	99%	25,192.0 µg/mL	+/- 783.0517

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Morgan Craighead - Mix Technician

Date Mixed: 02-Jun-2025 **Balance:** C322230531

REVIEWED

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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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. : 555871 **Lot No.:** A0226283

S13158 ↓ S13167 } RC/ 6/4/25

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 : June 30, 2028 **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	4-Nitrophenol	100-02-7	20241120-1-AN	99%	25,192.0 µg/mL	+/- 783.0517

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Morgan Craighead - Mix Technician

Date Mixed: 02-Jun-2025 **Balance:** C322230531

REVIEWED By Dillon Murphy at 11:21 am, Jun 03, 2025

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

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. : 31206 **Lot No.:** A0224359

Description : SV Internal Standard Mix 2mg/ml

SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

S13168 ↓ S13197 } AC 6/9/25

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2031 **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%	2,000.0 µg/mL	+/- 90.0812
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,000.8 µg/mL	+/- 90.1187
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,000.8 µg/mL	+/- 90.1187
4	Phenanthrene-d10	1517-22-2	PR-34099	99%	2,000.0 µg/mL	+/- 90.0812
5	Chrysene-d12	1719-03-5	PR-33506	99%	2,000.8 µg/mL	+/- 90.1187
6	Perylene-d12	1520-96-3	PR-33205	99%	2,000.0 µg/mL	+/- 90.0812

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

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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. : 31206 **Lot No.:** A0224359

Description : SV Internal Standard Mix 2mg/ml

SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

S13168 ↓ S13197 AC 6/9/25

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2031 **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%	2,000.0 µg/mL	+/- 90.0812
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,000.8 µg/mL	+/- 90.1187
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,000.8 µg/mL	+/- 90.1187
4	Phenanthrene-d10	1517-22-2	PR-34099	99%	2,000.0 µg/mL	+/- 90.0812
5	Chrysene-d12	1719-03-5	PR-33506	99%	2,000.8 µg/mL	+/- 90.1187
6	Perylene-d12	1520-96-3	PR-33205	99%	2,000.0 µg/mL	+/- 90.0812

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
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.

S13198 ↓ S13207 } AC 6/11/25

Catalog No. : 555868 **Lot No.:** A0226493

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, 2028 **Storage:** 10°C or colder

Handling: Contains carcinogen/reproductive toxin. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Benzidine	92-87-5	S250227ECS	99%	25,004.0 µg/mL	+/- 495.8040

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Laith Clemente - Operations Technician I

Date Mixed: 09-Jun-2025 **Balance:** 1122030677

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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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.

S13198 → S13207 AC 6/11/25

Catalog No. : 555868 **Lot No.:** A0226493

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, 2028 **Storage:** 10°C or colder

Handling: Contains carcinogen/reproductive toxin. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Benzidine	92-87-5	S250227ECS	99%	25,004.0 µg/mL	+/- 495.8040

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Laith Clemente - Operations Technician I

Date Mixed: 09-Jun-2025 **Balance:** 1122030677

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

Absolute Standards, Inc.
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Certified Reference Material CRM

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AR-1539 Certificate Number
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CERTIFIED WEIGHT REPORT

Part Number: 70434
Lot Number: 121622
Description: Acetophenone

Expiration Date: 121627
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 1000
NIST Test ID#: 6UTB

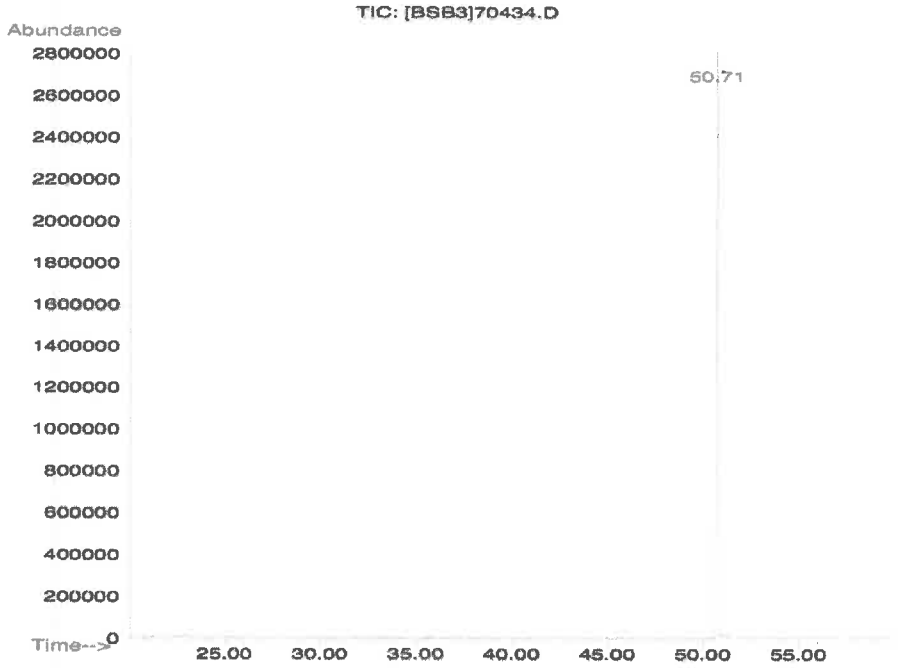
Solvent(s): **Lot#**
Methylene chloride C21F09CAS0000DCM

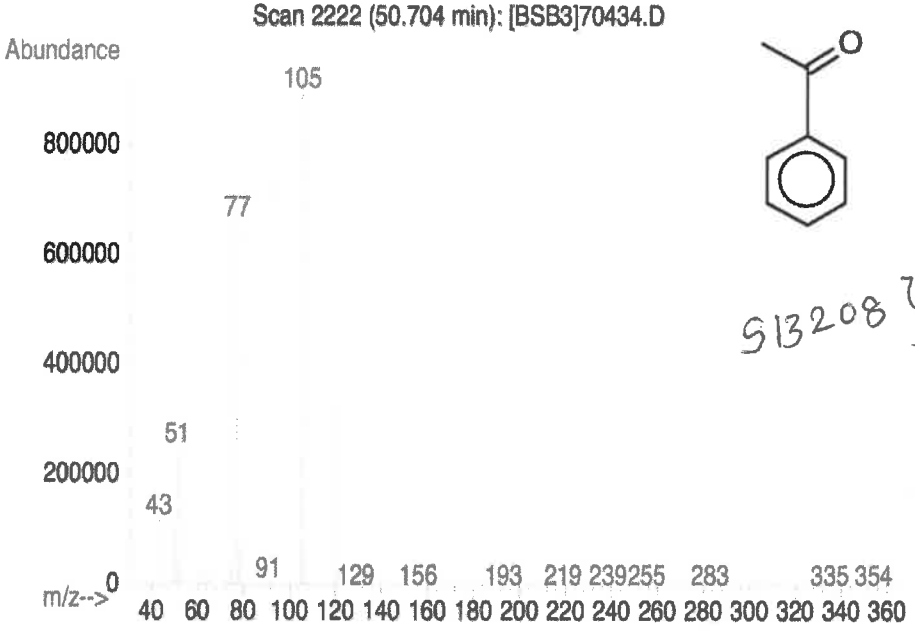
		121622
Formulated By:	Benson Chan	DATE
		121622
Reviewed By:	Pedro L. Rentas	DATE

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acetophenone	434	04511JX	1000	99	0.2	0.05055	0.05075	1004.0	4.5	98-86-2	N/A	orl-rat 815mg/kg

Method: GC6MSD-1. **Detector:** MSD. **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (10min.), Temp. 2 = 200°C (8.75 min.), Rate = 4°C/min., Injector Temp.= 200°C, Detector Temp. = 220°C. **Analyst:** Candice Warren. Solvent delay = 25 minutes.

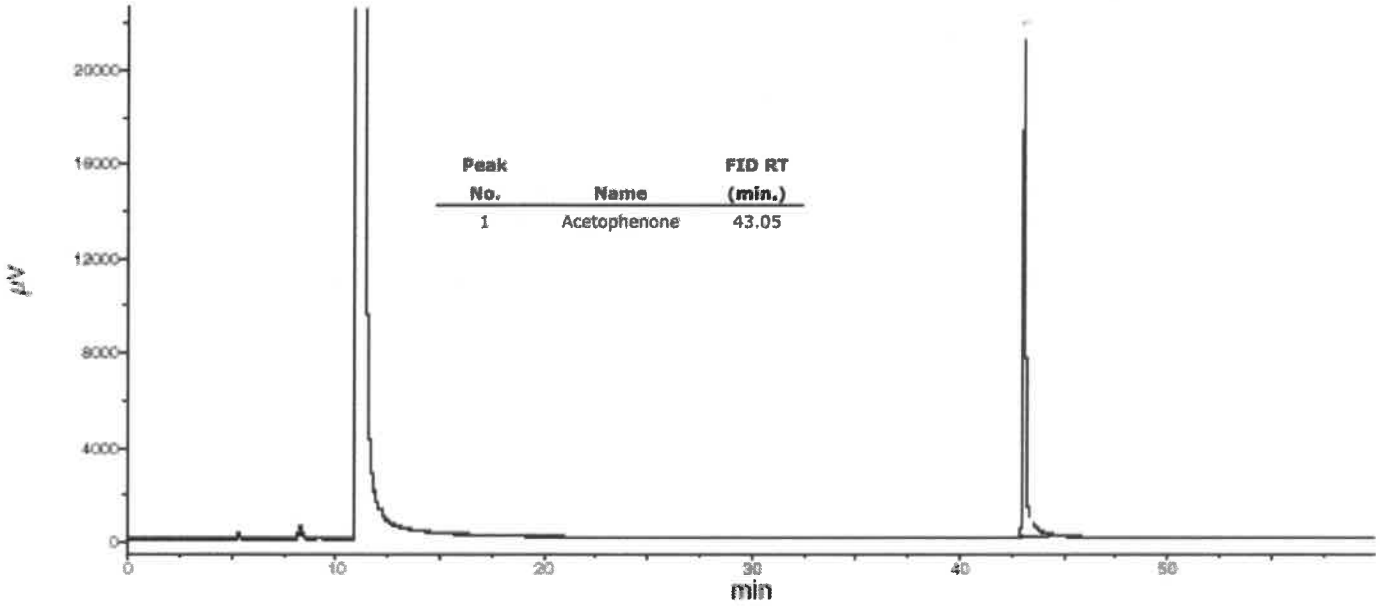




S13208 % RC
6/19/25

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Comments
GC13-M1 Analysis by Melissa Stonier
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3



Peak No.	Name	FID RT (min.)
1	Acetophenone	43.05

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Certified Reference Material CRM

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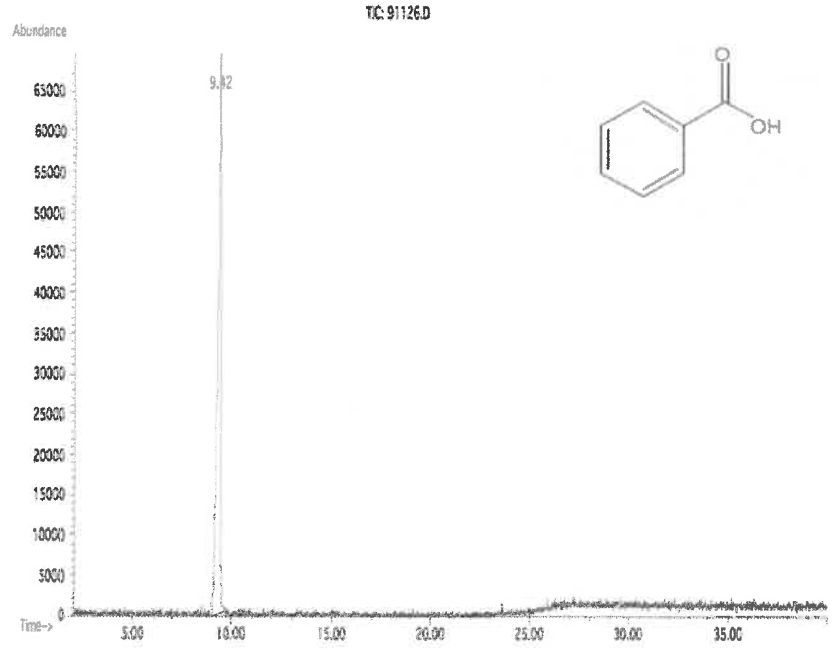
CERTIFIED WEIGHT REPORT

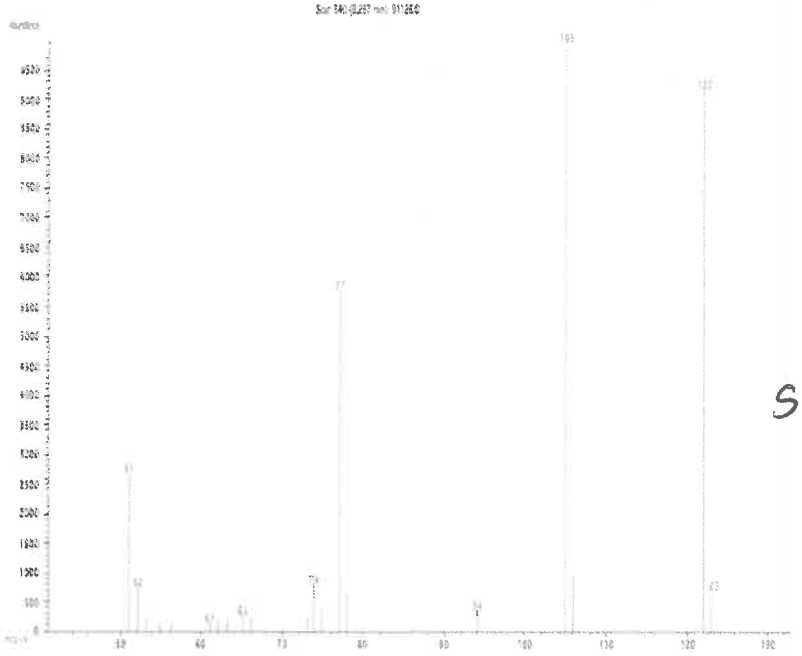
Part Number:	**91126**	**Solvent(s):**	**Lot#**
Lot Number:	060625	Methylene chloride	23343
Description:	Benzoic acid		
Expiration Date:	060630		
Recommended Storage:	Refrigerate (4 °C)		
Nominal Concentration (µg/mL):	2000		
NIST Test ID#:	6UTB	5E-05 Balance Uncertainty	
Weight(s) shown below were combined and diluted to (mL):	100.0	0.031 Flask Uncertainty	

		060625
Formulated By:	Anthony Mahoney	DATE
		060625
Reviewed By:	Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Benzoic acid	34	11930AW	2000.0	99	0.2	0.20211	0.20227	2001.6	8.2	65-85-0	N/A	orl-rat 1700mg/kg

Method GC8MSD-3.M: Column:SPB-5 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 50°C (1min.), Temp 2 = 300°C (9min.), Rate = 10°C/min., Injector B= 200°C. Detector B = 275°C, Split Ratio = 100:1, Scan Rate = 2. Analysis performed by: Melissa Stonier.





S132097 RC 6/19/25

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated by an ISO 17025 certified organization with weights traceable through NIST to the SI kilogram (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Rev 1.0, 2/25/2025

CERTIFIED WEIGHT REPORT

Part Number: 34571
Lot Number: 092324
Description: 1,2,4,5-Tetrachlorobenzene

Solvent(s): **Lot#**
Methanol EI863-US

Expiration Date: 092334
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

5E-05 Balance Uncertainty
0.004 Flask Uncertainty

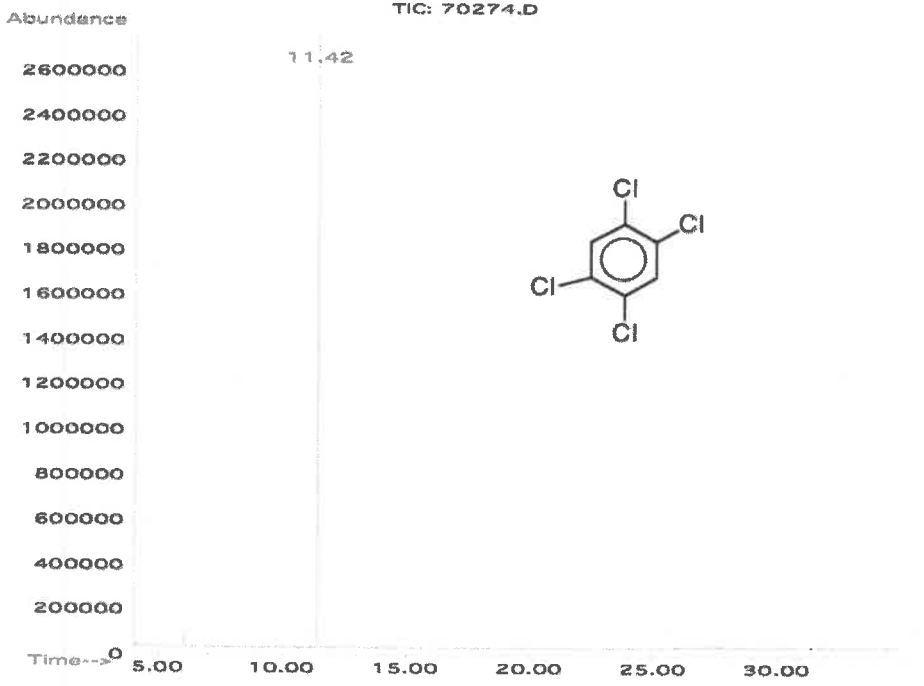
Weight(s) shown below were combined and diluted to (mL): 25.0

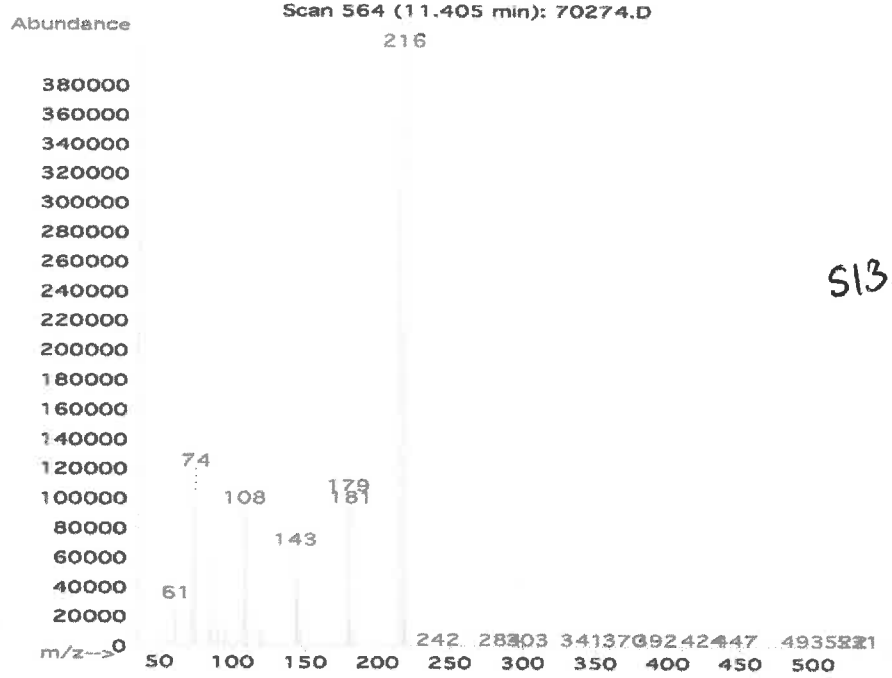
CAUTION: Sonicate Before Use

Formulated By:	Lawrence Barry	092324 DATE
Reviewed By:	Pedro L. Rentas	092324 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 1,2,4,5-Tetrachlorobenzene	274	10408AS	5000	98	0.20	0.12761	0.12765	5001.4	20.8	95-94-3	N/A	orl-rat 1500mg/kg

Method GC8MSD-3.M: Column:SPB-5 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 50°C (1min.), Temp 2 = 300°C (9min.), Rate = 10°C/min., Injector B= 200°C, Detector B = 275°C, Split Ratio = 100:1, Scan Rate = 2. Analysis performed by: Gina McLane.





S132113 RC 6/19/25.

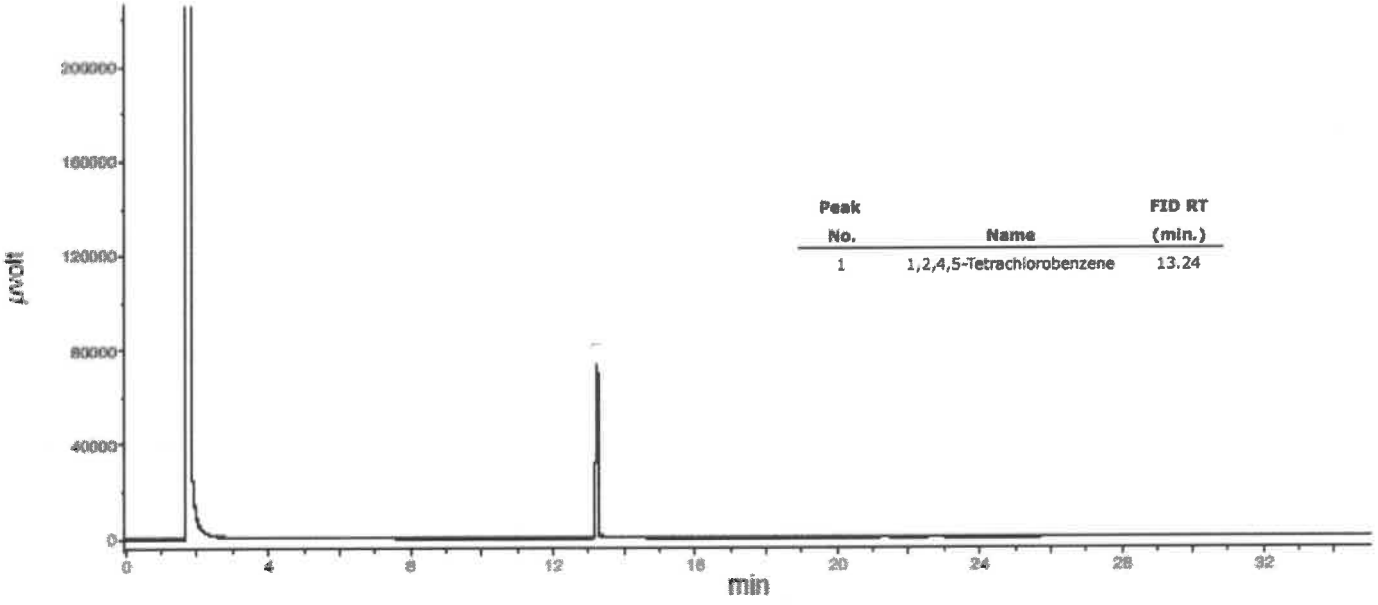
- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Run 31, "P34571 L092324 [5000µg/mL in MeOH]"

Run Length: 35.00 min, 20999 points at 10 points/second.
Created: Fri, Jan 3, 2025 at 11:24:40 AM.
Sampled: Sequence "010225-GC4M1", Method "GC4-M1".
Analyzed using Method "GC4-M1".

Comments

GC4-M1 Analysis by Melissa Stonier
Column ID SPB5 L#60062-01A : 30 meter x 0.53mm x 1.5um Film Thickness
Flow rates; Total Flow = 300 ml/min, Helium (carrier) = 6.5 mL, Helium (make-up) = 25 mL, Hydrogen (detector) = 30 mL, Air (detector) =360 mL
Oven Temp 1 = 50°C (1 min), Rate = 10°C/min, Oven Temp 2 = 300°C (9 min), Total Run Time = 35 Minutes.
Injector Temp = 200°C, FID Temp = 300°C, FID Signal = eDaq Channel 1.
Gas Chromatograph = HP 5890, Auto Sampler = HP 7673, Standard Injection = 0.5 uL, Range = 7



Peak No.	Name	FID RT (min.)
1	1,2,4,5-Tetrachlorobenzene	13.24

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Certificate of Analysis

chromatographic plus

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Catalog No. : 31879 **Lot No.:** A0221395

Description : Benzoic Acid Mix

Benzoic Acid 2000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : January 31, 2029 **Storage:** 10°C or colder

Ship: Ambient

S13214 ↓ S13218 AC 7/10/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Benzoic acid	65-85-0	MKCR2694	99%	2,002.2 µg/mL	+/- 60.5426

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic

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.

Catalog No. : 582978 **Lot No.:** A0228192

513229 ↓ 513238 } RC/ 8/1/25

Description : Custom Calibration Standard - C8

Custom Calibration Standard - C8 2,000µg/mL, Methylene chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2028 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	N-Nitrosodimethylamine	62-75-9	S241226RSR	99%	2,000.0 µg/mL	+/- 35.7537
2	Aniline	62-53-3	X22F726	99%	2,002.5 µg/mL	+/- 35.7984
3	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	2,005.0 µg/mL	+/- 35.8431
4	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	2,005.0 µg/mL	+/- 35.8431
5	Benzyl alcohol	100-51-6	094986W07G	99%	2,015.0 µg/mL	+/- 36.0218
6	1,2-Dichlorobenzene	95-50-1	SHBR4446	99%	2,015.0 µg/mL	+/- 36.0218
7	1,2,4-Trichlorobenzene	120-82-1	SHBR1701	99%	2,020.0 µg/mL	+/- 36.1112
8	Azobenzene	103-33-3	BCCL3292	99%	2,005.0 µg/mL	+/- 35.8431

* 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.)

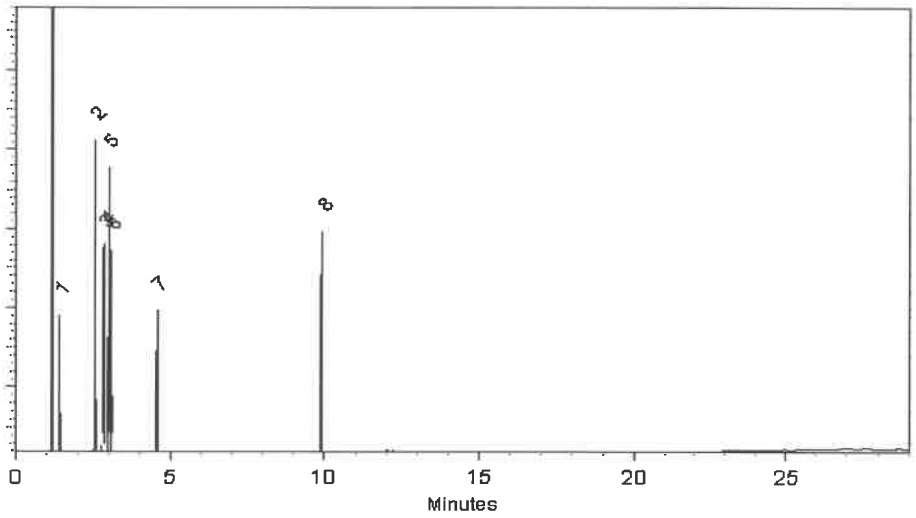
Inj. Temp:
250°C

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.

Wilner Torres - Operation Tech I **Date Mixed:** 27-Jul-2025 **Balance Serial #** B345965662

Jennifer Pollino - Operations Tech III - ARM QC **Date Passed:** 30-Jul-2025 REVIEWED

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. : 555869 **Lot No.:** A0201702

Description : Custom Hexachlorocyclopentadiene Standard

Custom Hexachlorocyclopentadiene Standard 25,000µg/mL, Methanol, 1mL/ampul

513148 ↓ 513157 RC 11/13/23

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 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	Hexachlorocyclopentadiene	77-47-4	099063P13G	99%	25,244.0 µg/mL	+/- 450.6896

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Brittany Federinko - Operations Tech I

Date Mixed: 05-Sep-2023 **Balance:** B707717271

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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. Q2819
COC Number 2045329

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: First Environment
ADDRESS: 10 Park Pl Bldg 1A Suite 304
CITY Butler STATE: NJ ZIP: 07405
ATTENTION: Al Smith
PHONE: 973-334-0003 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: USACE FIMP
PROJECT NO.: USACE018-44 LOCATION: Long Island, NY
PROJECT MANAGER: Al Smith
e-mail: asmith@firstenvironment.com
PHONE: 973-334-0003 FAX:

CLIENT BILLING INFORMATION

BILL TO: PO#:
ADDRESS: Same
CITY STATE: ZIP:
ATTENTION: PHONE:

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 NYSDEC

ANALYSIS

1: VOC/SVOC 2: Pest./PCB 3. metals 4 5 6 7 8 9

PRESERVATIVES

COMMENTS

← Specify Preservatives
A-HCl D-NaOH
B-HN03 E-ICE
C-H2SO4 F-OTHER

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	1	2	3	4	5	6	7	8	9	COMMENTS
1.	22BP-N	S			8/4/25	1500	5	X									
2.	22BP-E	S				1434	5	X									
3.	22BP-W	S				1418	5	X									
4.	22BP-S	S				1427	5	X									
5.	11M-W	S			8/5/25	1015	5	X									
6.	11M-S	S				0955	7	X	X	X							
7.	11M-N	S				1100	5	X									
8.	11M-E	S				1110	5	X									
9.	845B-E	S				1340	5	X									
10.	845B-S	S				1410	5	X									

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1. GMC	6:01	1. 8.8.25
2.		2.
3.		3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☒ COOLER TEMP 3.8i °C
Comments:

Page 1 of 5

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete ☐ YES ☐ NO

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Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 · Fax (908) 789-8922
www.chemtech.net

ALLIANCE PROJECT NO.
QUOTE NO. Q2819
COC Number 2045330

CLIENT INFORMATION (REPORT TO BE SENT TO:)

COMPANY:
ADDRESS: See page 1
CITY STATE: ZIP:
ATTENTION:
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME:
PROJECT NO.: LOCATION:
PROJECT MANAGER:
e-mail:
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: PO#:
ADDRESS:
CITY STATE: ZIP:
ATTENTION: PHONE:

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 NYSDEC

ANALYSIS

1 VOC / 2 SVOC / 3 Pest / 4 PCB / 5 Metals / 6 / 7 / 8 / 9

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
1.	84 SB-W	S	C		8/5/25	1400	7	X	X	X							
2.	17M-S					1605	5	X									
3.	17M-E					1700	5	X									
4.	17M-W					1620	7	X	X	X							
5.	17M-N					1640	5	X									
6.	38M-S				8/6/25	0935	5	X									
7.	38M-N					1005	5	X									
8.	38M-W					0955	5	X	X	X							
9.	38M-E					1020	5	X									
10.	82H-E					1205	5	X									

Specify Preservatives: A-HCl B-HN03 C-H2SO4 D-NaOH E-ICE F-OTHER

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1. GMC	6:01	1. 8.8.25
2.		2.
3.		3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☒ COOLER TEMP 3.6 °C
Comments:

Page 2 of 5

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete ☐ YES ☐ NO

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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

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2819 FIRS02
Client Name : First Environment, Inc.
Client Contact : Al Smith
Invoice Name : First Environment, Inc.
Invoice Contact : Al Smith

Order Date : 8/11/2025 12:06:00 PM
Project Name : USACE018-44 DOD
Receive DateTime : 8/8/2025 6:01:00 PM
Purchase Order :

Project Mgr :
Report Type : Level 4
EDD Type : EQUIS
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q2819-01	22BP-N	Solid	08/04/2025	15:00					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q2819-02	22BP-E	Solid	08/04/2025	14:34					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q2819-03	22BP-W	Solid	08/04/2025	14:18					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q2819-04	22BP-S	Solid	08/04/2025	14:27					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q2819-05	11M-W	Solid	08/05/2025	10:15					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q2819-06	11M-S	Solid	08/05/2025	09:55					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q2819-07	11M-N	Solid	08/05/2025	11:00					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q2819-08	11M-E	Solid	08/05/2025	11:10					

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

DP 08/16/2025

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2819 FIRS02
Client Name : First Environment, Inc.
Client Contact : Al Smith
Invoice Name : First Environment, Inc.
Invoice Contact : Al Smith

Order Date : 8/11/2025 12:06:00 PM
Project Name : USACE018-44 DOD
Receive DateTime : 8/8/2025 6:01:00 PM
Purchase Order :

Project Mgr :
Report Type : Level 4
EDD Type : EQUIS
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
					VOC-TCLVOA-10		8260D	10 Bus. Days	
Q2819-09	84SB-E ~~845SB-E~~	Solid	08/05/2025	13:40					
					VOC-TCLVOA-10		8260D	10 Bus. Days	
Q2819-10	84SB-S ~~845SB-S~~	Solid	08/05/2025	14:10					
					VOC-TCLVOA-10		8260D	10 Bus. Days	
Q2819-11	84SB-W ~~845SB-W~~	Solid	08/05/2025	14:00					
					VOC-TCLVOA-10		8260D	10 Bus. Days	
Q2819-12	17M-S	Solid	08/05/2025	16:05					
					VOC-TCLVOA-10		8260D	10 Bus. Days	
Q2819-13	17M-E	Solid	08/05/2025	17:00					
					VOC-TCLVOA-10		8260D	10 Bus. Days	
Q2819-14	17M-W	Solid	08/05/2025	16:20					
					VOC-TCLVOA-10		8260D	10 Bus. Days	
Q2819-15	17M-N	Solid	08/05/2025	16:40					
					VOC-TCLVOA-10		8260D	10 Bus. Days	

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2819 FIRS02
Client Name : First Environment, Inc.
Client Contact : Al Smith
Invoice Name : First Environment, Inc.
Invoice Contact : Al Smith

Order Date : 8/11/2025 12:06:00 PM
Project Name : USACE018-44 DOD
Receive DateTime : 8/8/2025 6:01:00 PM
Purchase Order :

Project Mgr :
Report Type : Level 4
EDD Type : EQUIS
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q2819-16	38M-S	Solid	08/06/2025	09:35					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q2819-17	38M-N	Solid	08/06/2025	10:05					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q2819-18	38M-W	Solid	08/06/2025	09:55					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q2819-19	38M-E	Solid	08/06/2025	10:20					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q2819-20	82H-E	Solid	08/06/2025	12:05					
					VOC-TCLVOA-10		8260D		10 Bus. Days

Relinguished By :
Date / Time : 8-11-25 1450

Received By :
Date / Time : 08/11/25 14:50
Storage Area : **VOA Refridgerator Room**

RGH 6
EZ2

Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
Data File : BF143525.D
Acq On : 21 Aug 2025 12:46
Operator : RC/JU
Sample : Q2819-07
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
11M-N

Quant Time: Aug 21 13:50:06 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 21 06:12:21 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.928	152	118931	20.000	ng		0.00
21) Naphthalene-d8	8.204	136	449576	20.000	ng		0.00
39) Acenaphthene-d10	9.963	164	234828	20.000	ng		0.00
64) Phenanthrene-d10	11.451	188	338286	20.000	ng		0.00
76) Chrysene-d12	14.092	240	208452	20.000	ng		-0.01
86) Perylene-d12	15.592	264	261830	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.563	112	578369	84.917	ng		0.00
7) Phenol-d6	6.557	99	727657	86.545	ng		-0.02
23) Nitrobenzene-d5	7.481	82	483867	62.806	ng		-0.02
42) 2,4,6-Tribromophenol	10.751	330	169030	77.327	ng		-0.01
45) 2-Fluorobiphenyl	9.281	172	803836	56.572	ng		0.00
79) Terphenyl-d14	13.033	244	603175	50.494	ng		0.00
Target Compounds							Qvalue
19) n-Nitroso-di-n-propyla...	7.481	70	65275	12.702	ng	#	78
25) Isophorone	7.481	82	469042	33.212	ng	#	65
31) Naphthalene	8.228	128	386191	17.892	ng		99
32) Benzoic acid	8.228	122	1016	5.783	ng	#	1
33) 4-Chloroaniline	8.228	127	49805	6.501	ng	#	31
37) 2-Methylnaphthalene	8.922	142	90622	6.286	ng		100
38) 1-Methylnaphthalene	9.016	142	59000	4.279	ng		99
51) 2,6-Dinitrotoluene	9.963	165	33349	11.377	ng	#	26
52) Acenaphthene	9.992	154	138694	10.909	ng		99
55) Dibenzofuran	10.169	168	189690	10.465	ng		99
56) 4-Nitrophenol	10.169	139	71352	37.861	ng	#	9
58) Fluorene	10.510	166	195333	14.001	ng		100
63) Azobenzene	10.669	77	51513	3.918	ng	#	1
67) 4-Bromophenyl-phenylether	10.751	248	11269	2.792	ng	#	1
71) Phenanthrene	11.475	178	678352	37.445	ng		100
72) Anthracene	11.527	178	85798	4.675	ng		99
73) Carbazole	11.680	167	176236	11.720	ng		100
75) Fluoranthene	12.663	202	269271	16.565	ng		99
78) Pyrene	12.892	202	163978	9.563	ng		98
81) Benzo(a)anthracene	14.080	228	49325	3.675	ng		98
83) Chrysene	14.121	228	37243	3.088	ng		97
88) Benzo(b)fluoranthene	15.151	252	53932	3.706	ng	#	96
89) Benzo(k)fluoranthene	15.151	252	53932	3.870	ng	#	96

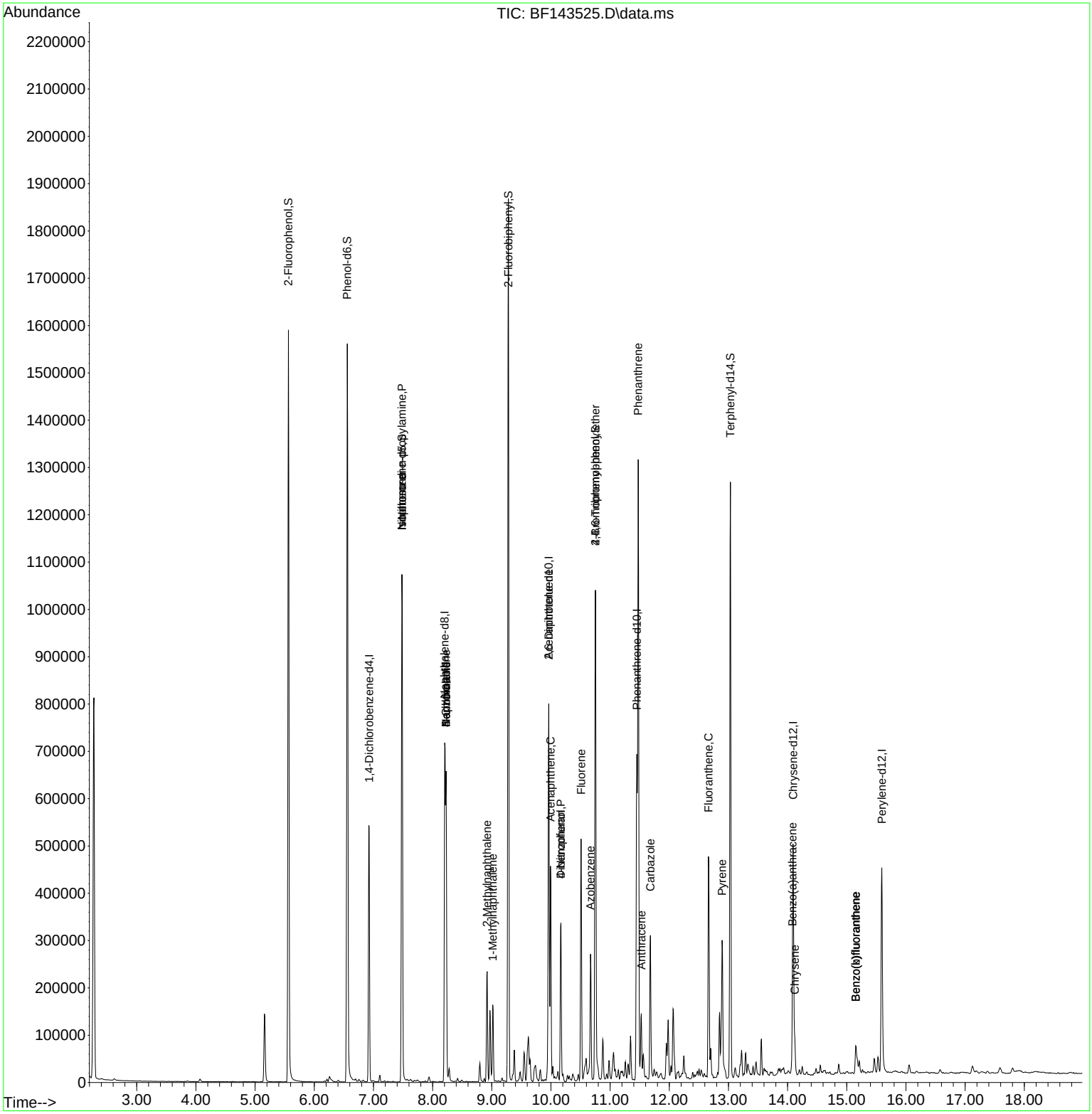
(#) = qualifier out of range (m) = manual integration (+) = signals summed

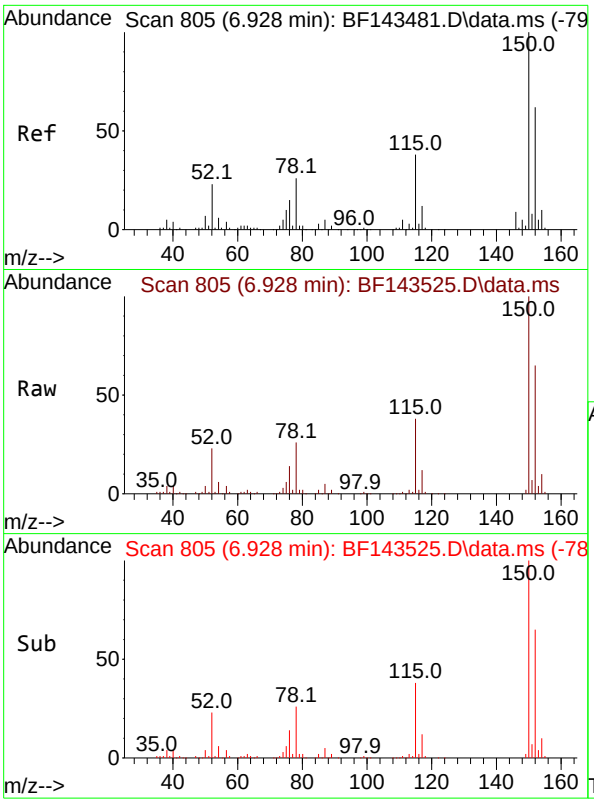
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
Data File : BF143525.D
Acq On : 21 Aug 2025 12:46
Operator : RC/JU
Sample : Q2819-07
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
11M-N

Quant Time: Aug 21 13:50:06 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 21 06:12:21 2025
Response via : Initial Calibration



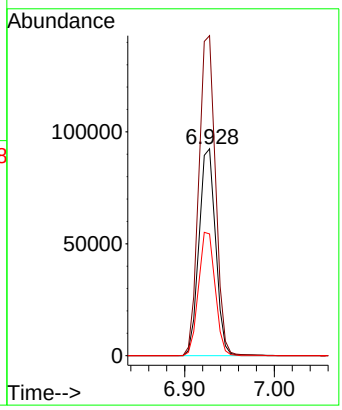


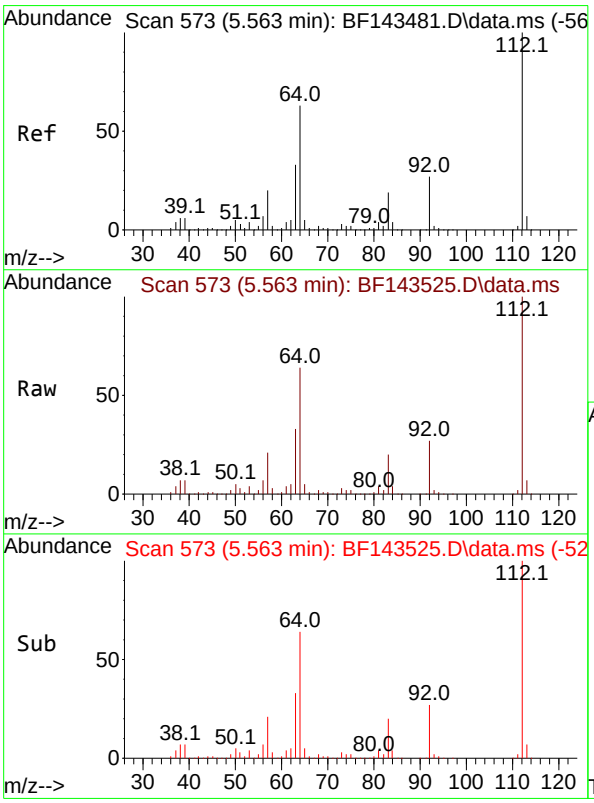
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.928 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF143525.D
Acq: 21 Aug 2025 12:46

Instrument :
BNA_F
ClientSampleId :
11M-N

Tgt Ion:152 Resp: 118931

Ion	Ratio	Lower	Upper
152	100		
150	154.7	128.9	193.3
115	58.9	49.2	73.8

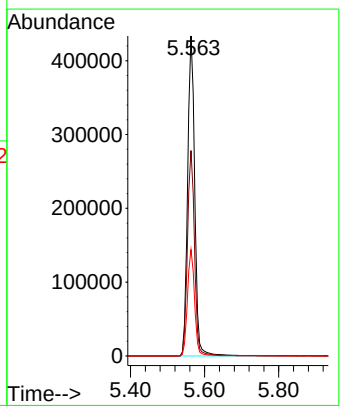


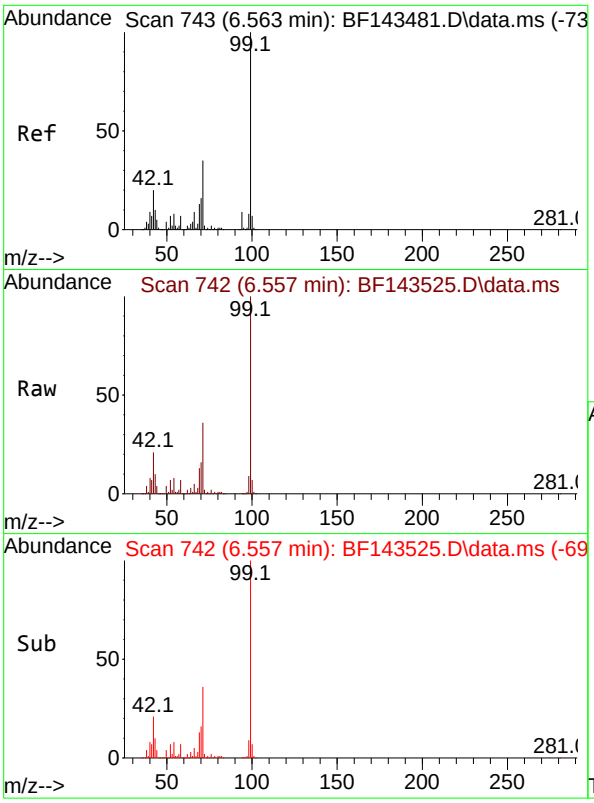


#5
2-Fluorophenol
Concen: 84.917 ng
RT: 5.563 min Scan# 573
Delta R.T. -0.000 min
Lab File: BF143525.D
Acq: 21 Aug 2025 12:46

Tgt Ion:112 Resp: 578369

Ion	Ratio	Lower	Upper
112	100		
64	64.2	50.4	75.6
63	33.2	26.4	39.6



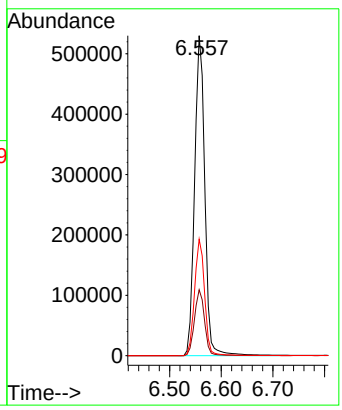


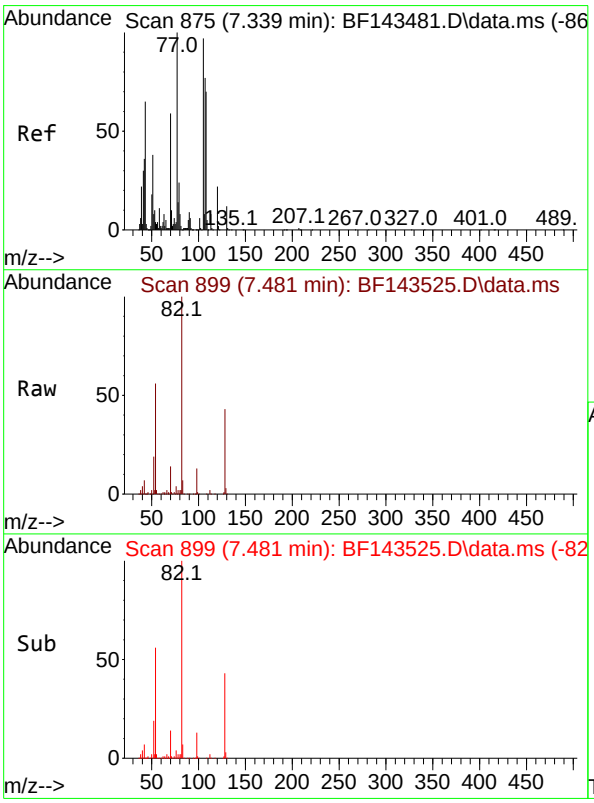
#7
Phenol-d6
Concen: 86.545 ng
RT: 6.557 min Scan# 7
Delta R.T. -0.018 min
Lab File: BF143525.D
Acq: 21 Aug 2025 12:46

Instrument :
BNA_F
ClientSampleId :
11M-N

Tgt Ion: 99 Resp: 727657

Ion	Ratio	Lower	Upper
99	100		
42	20.6	16.3	24.5
71	36.4	28.2	42.2

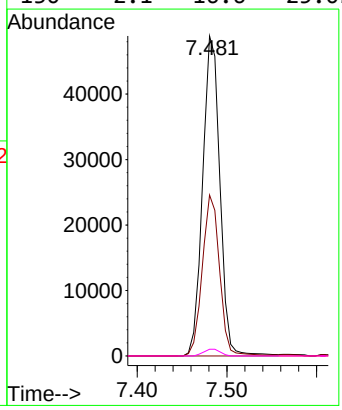


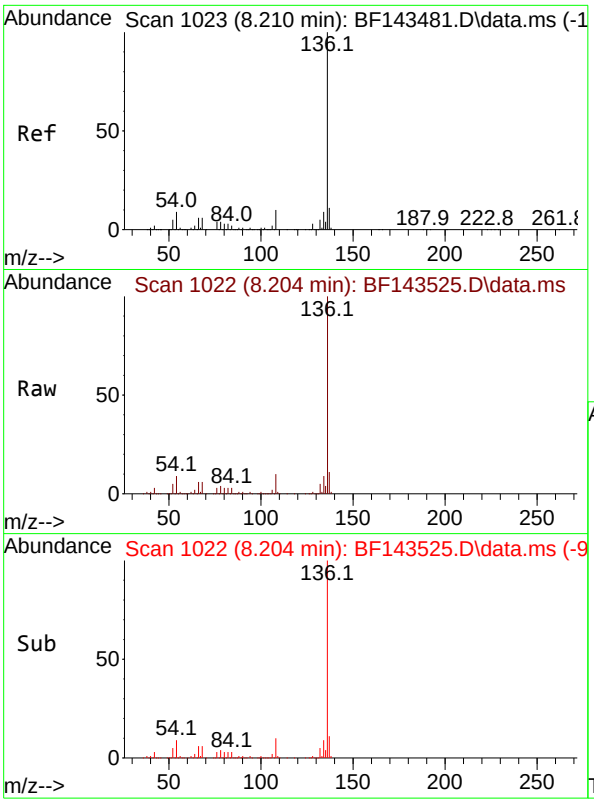


#19
n-Nitroso-di-n-propylamine
Concen: 12.702 ng
RT: 7.481 min Scan# 899
Delta R.T. 0.129 min
Lab File: BF143525.D
Acq: 21 Aug 2025 12:46

Tgt Ion: 70 Resp: 65275

Ion	Ratio	Lower	Upper
70	100		
42	50.3	49.3	73.9
101	0.0	7.8	11.8#
130	2.1	16.6	25.0#



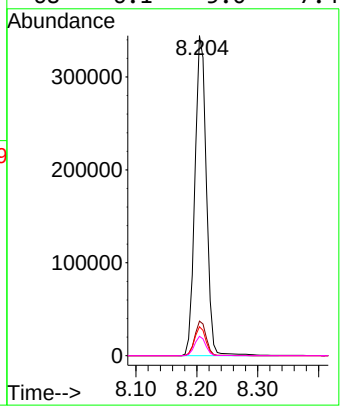


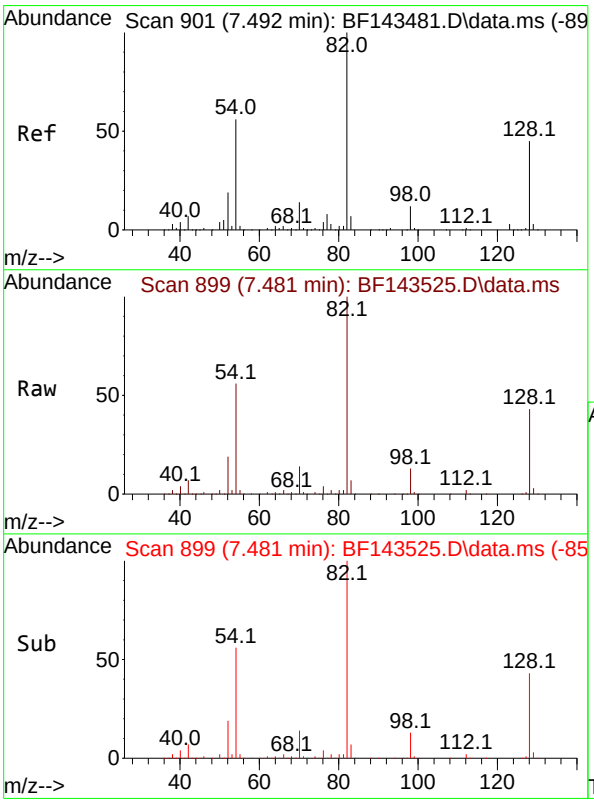
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.204 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143525.D
Acq: 21 Aug 2025 12:46

Instrument :
BNA_F
ClientSampleId :
11M-N

Tgt Ion:136 Resp: 449576

Ion	Ratio	Lower	Upper
136	100		
137	10.8	9.0	13.4
54	9.1	7.4	11.2
68	6.1	5.0	7.4

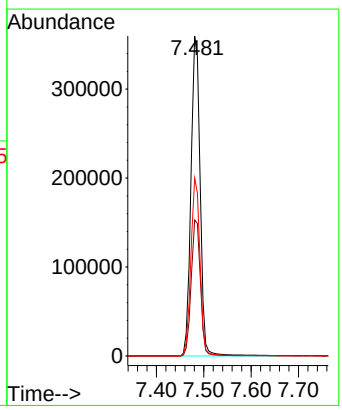


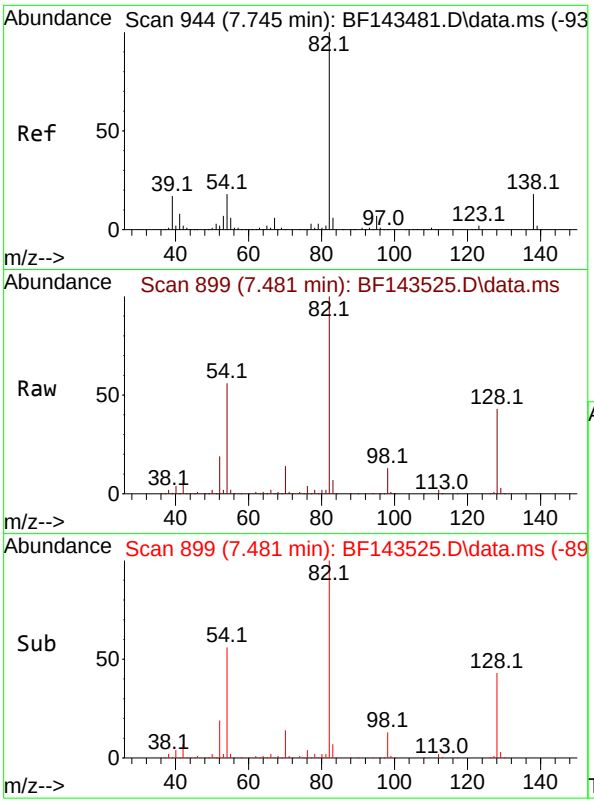


#23
Nitrobenzene-d5
Concen: 62.806 ng
RT: 7.481 min Scan# 899
Delta R.T. -0.018 min
Lab File: BF143525.D
Acq: 21 Aug 2025 12:46

Tgt Ion: 82 Resp: 483867

Ion	Ratio	Lower	Upper
82	100		
128	42.5	35.5	53.3
54	55.6	44.3	66.5



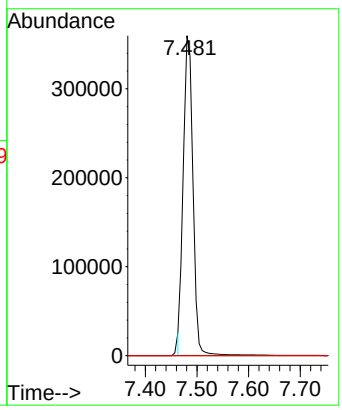


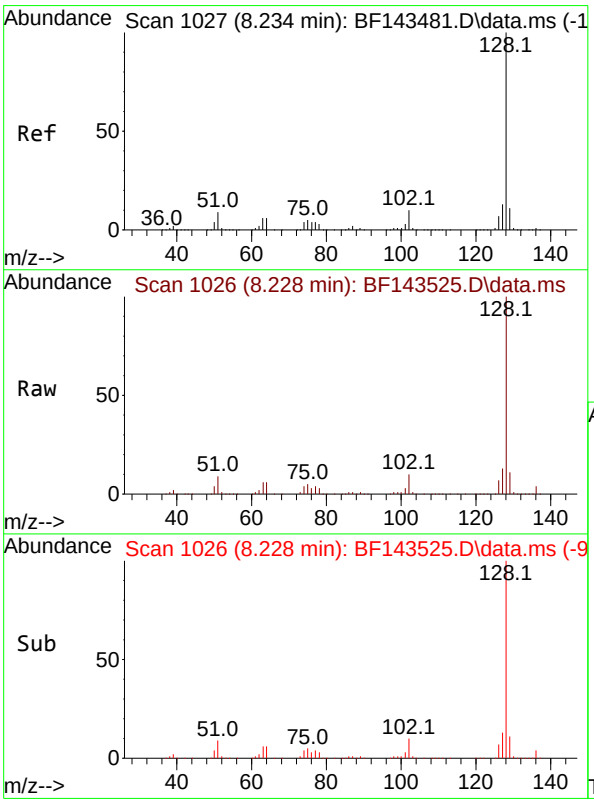
#25
Isophorone
Concen: 33.212 ng
RT: 7.481 min Scan# 8
Delta R.T. -0.276 min
Lab File: BF143525.D
Acq: 21 Aug 2025 12:46

Instrument :
BNA_F
ClientSampleId :
11M-N

Tgt Ion: 82 Resp: 469042

Ion	Ratio	Lower	Upper
82	100		
95	0.0	5.8	8.8#
138	0.0	14.2	21.4#

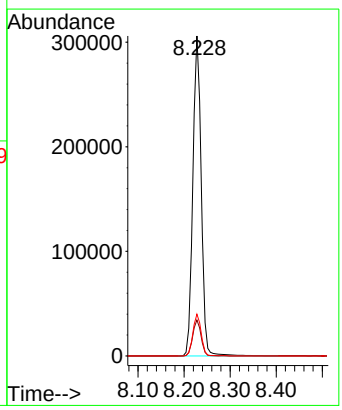


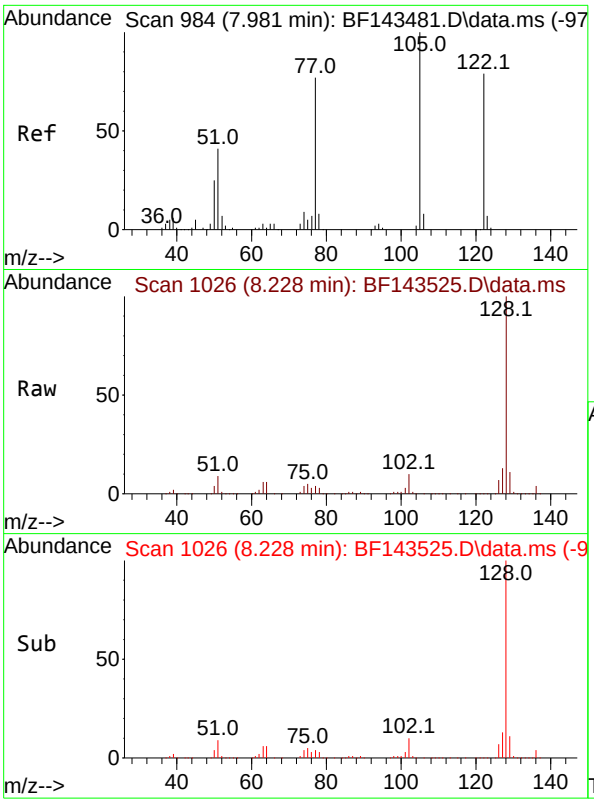


#31
Naphthalene
Concen: 17.892 ng
RT: 8.228 min Scan# 1026
Delta R.T. -0.006 min
Lab File: BF143525.D
Acq: 21 Aug 2025 12:46

Tgt Ion:128 Resp: 386191

Ion	Ratio	Lower	Upper
128	100		
129	11.2	8.8	13.2
127	13.1	10.6	16.0



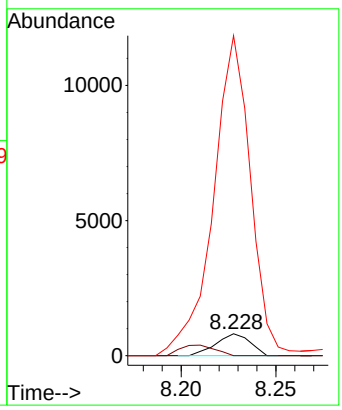


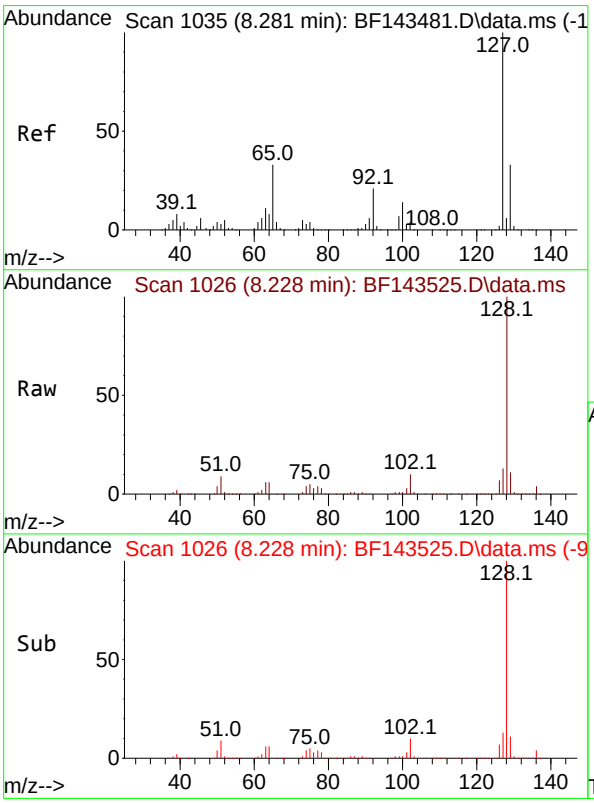
#32
Benzoic acid
Concen: 5.783 ng
RT: 8.228 min Scan# 1
Delta R.T. 0.218 min
Lab File: BF143525.D
Acq: 21 Aug 2025 12:46

Instrument :
BNA_F
ClientSampleId :
11M-N

Tgt Ion:122 Resp: 1016

Ion	Ratio	Lower	Upper
122	100		
105	0.0	104.7	144.7#
77	1461.9	77.3	117.3#

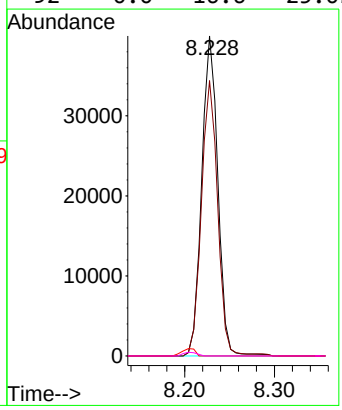


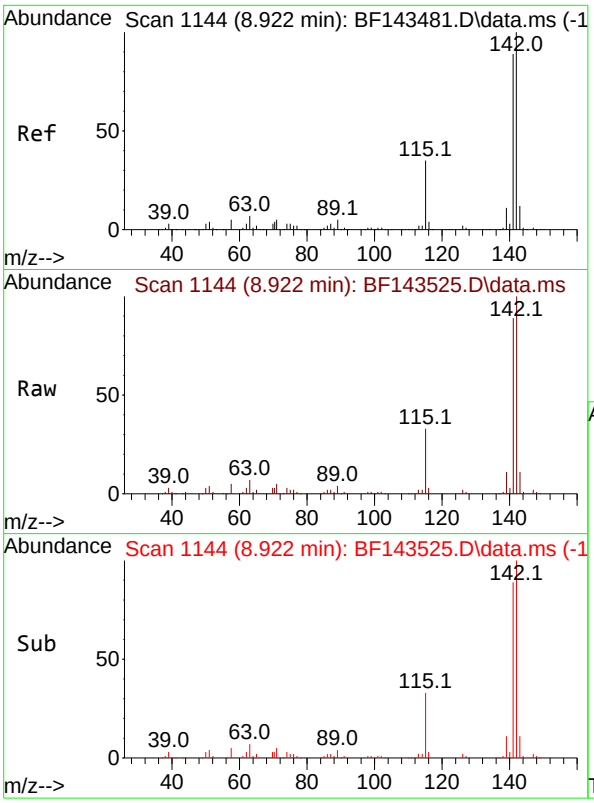


#33
4-Chloroaniline
Concen: 6.501 ng
RT: 8.228 min Scan# 1026
Delta R.T. -0.053 min
Lab File: BF143525.D
Acq: 21 Aug 2025 12:46

Tgt Ion:127 Resp: 49805

Ion	Ratio	Lower	Upper
127	100		
129	86.1	26.1	39.1#
65	0.0	26.2	39.2#
92	0.0	16.6	25.0#



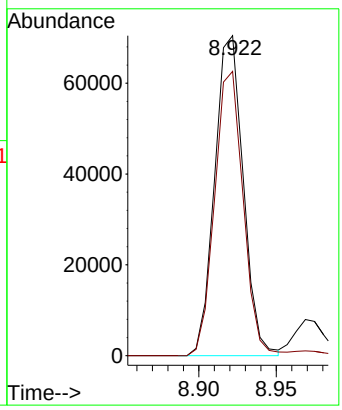


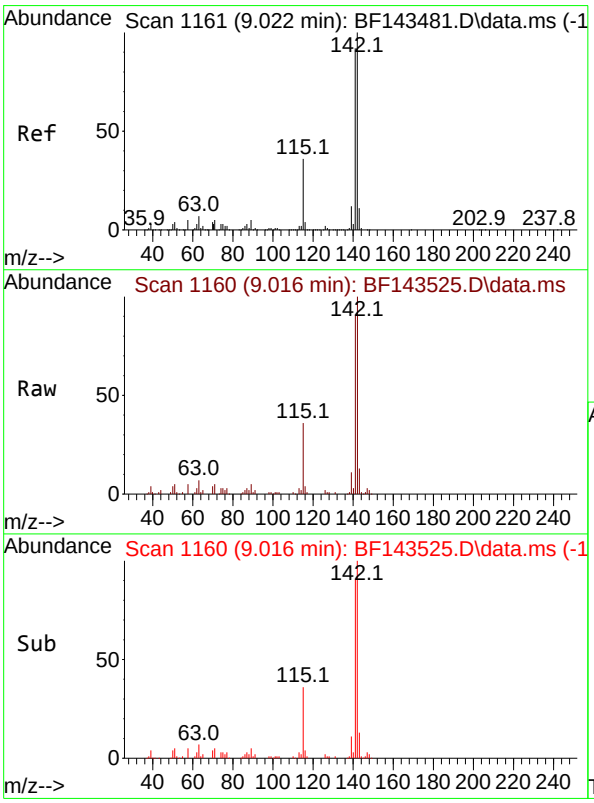
#37
2-Methylnaphthalene
Concen: 6.286 ng
RT: 8.922 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF143525.D
Acq: 21 Aug 2025 12:46

Instrument :
BNA_F
ClientSampleId :
11M-N

Tgt Ion:142 Resp: 90622

Ion	Ratio	Lower	Upper
142	100		
141	88.8	71.0	106.4

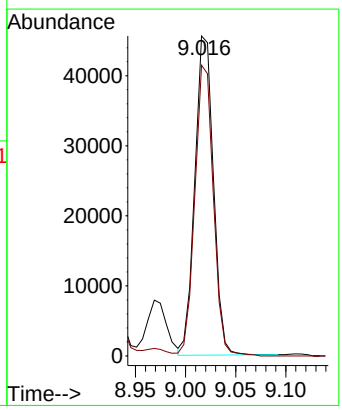


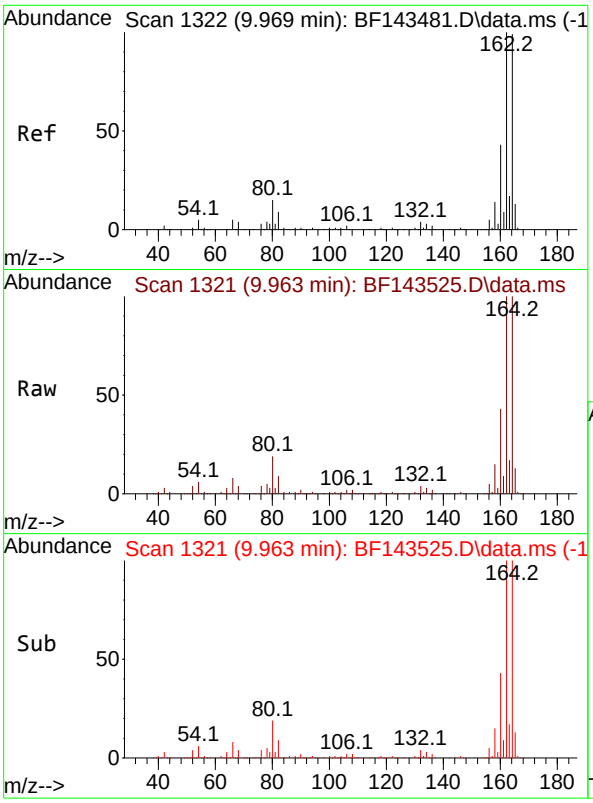


#38
1-Methylnaphthalene
Concen: 4.279 ng
RT: 9.016 min Scan# 1160
Delta R.T. -0.012 min
Lab File: BF143525.D
Acq: 21 Aug 2025 12:46

Tgt Ion:142 Resp: 59000

Ion	Ratio	Lower	Upper
142	100		
141	90.8	73.3	109.9



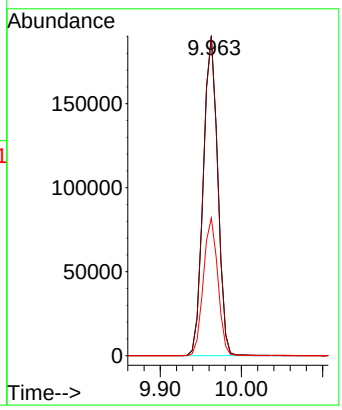


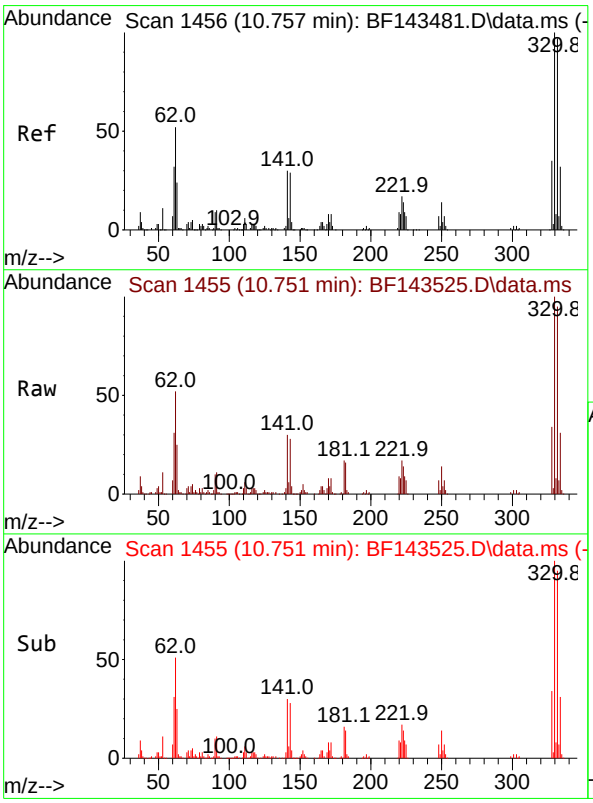
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.963 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143525.D
Acq: 21 Aug 2025 12:46

Instrument :
BNA_F
ClientSampleId :
11M-N

Tgt Ion:164 Resp: 234828

Ion	Ratio	Lower	Upper
164	100		
162	99.5	80.5	120.7
160	43.0	34.3	51.5

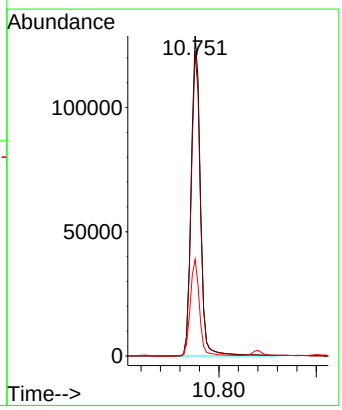


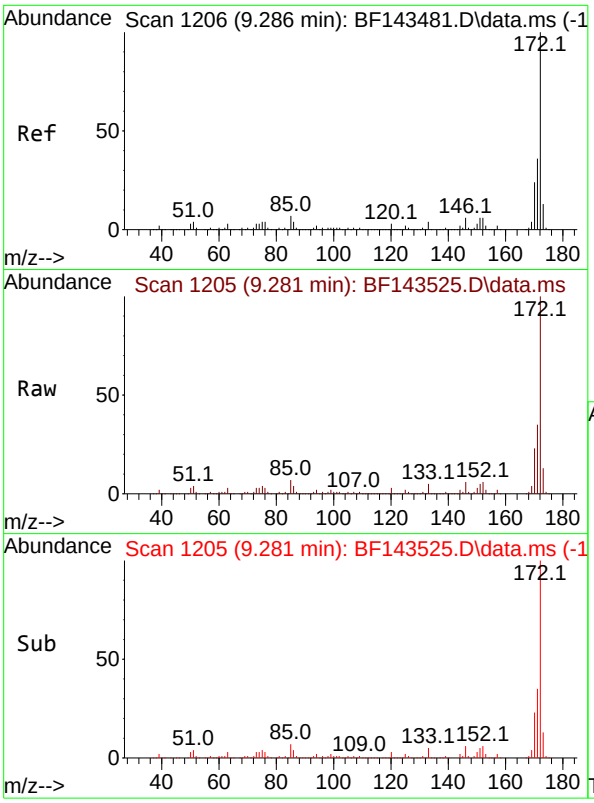


#42
2,4,6-Tribromophenol
Concen: 77.327 ng
RT: 10.751 min Scan# 1455
Delta R.T. -0.012 min
Lab File: BF143525.D
Acq: 21 Aug 2025 12:46

Tgt Ion:330 Resp: 169030

Ion	Ratio	Lower	Upper
330	100		
332	95.5	78.0	117.0
141	30.4	23.7	35.5



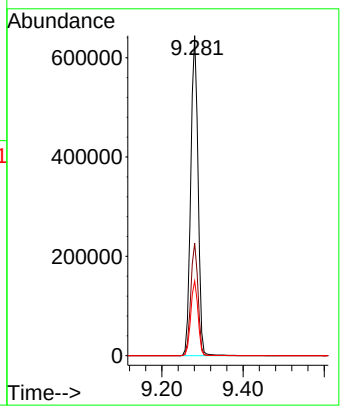


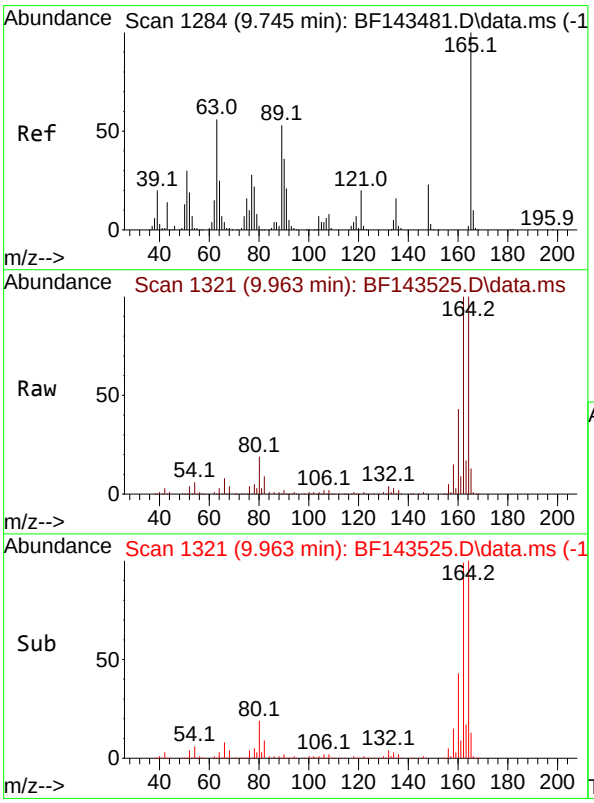
#45
2-Fluorobiphenyl
Concen: 56.572 ng
RT: 9.281 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143525.D
Acq: 21 Aug 2025 12:46

Instrument :
BNA_F
ClientSampleId :
11M-N

Tgt Ion:172 Resp: 803836

Ion	Ratio	Lower	Upper
172	100		
171	35.1	28.8	43.2
170	23.4	18.8	28.2

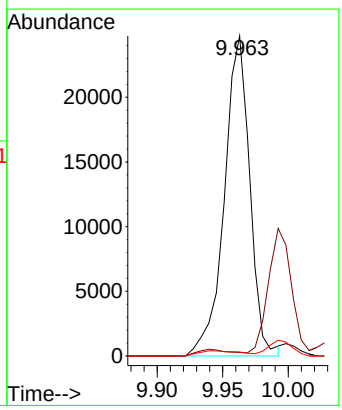


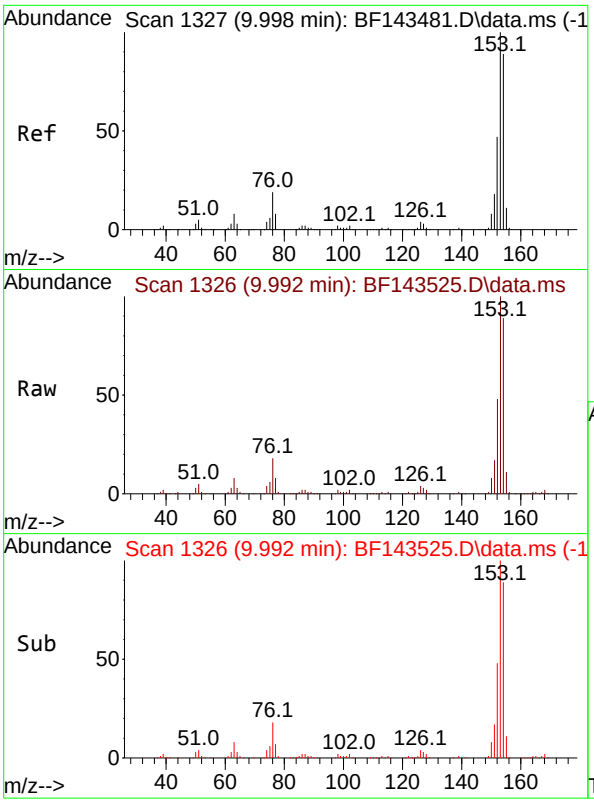


#51
2,6-Dinitrotoluene
Concen: 11.377 ng
RT: 9.963 min Scan# 1321
Delta R.T. 0.212 min
Lab File: BF143525.D
Acq: 21 Aug 2025 12:46

Tgt Ion:165 Resp: 33349

Ion	Ratio	Lower	Upper
165	100		
63	1.1	45.0	67.6#
89	1.2	42.5	63.7#



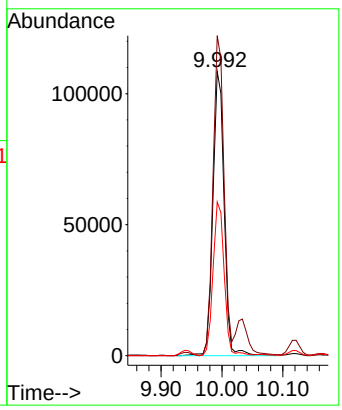


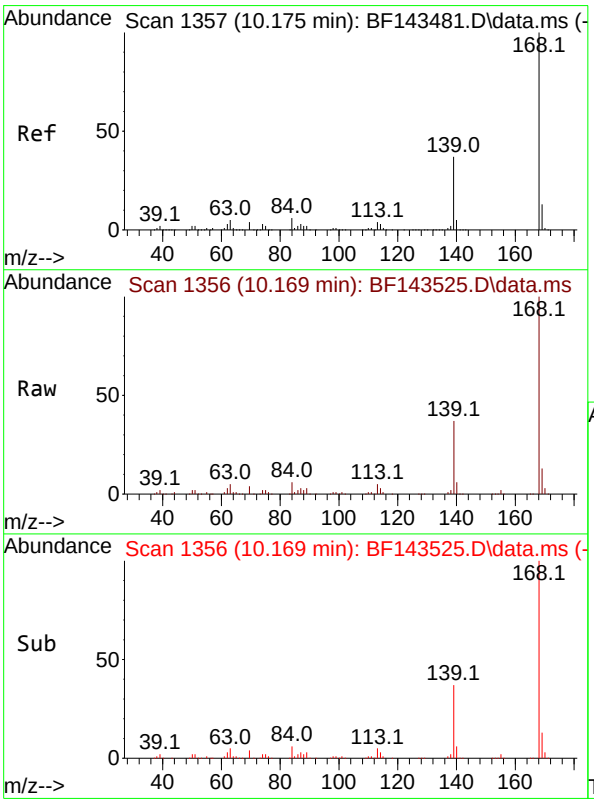
#52
Acenaphthene
Concen: 10.909 ng
RT: 9.992 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF143525.D
Acq: 21 Aug 2025 12:46

Instrument :
BNA_F
ClientSampleId :
11M-N

Tgt Ion:154 Resp: 138694

Ion	Ratio	Lower	Upper
154	100		
153	112.6	89.5	134.3
152	54.1	42.5	63.7

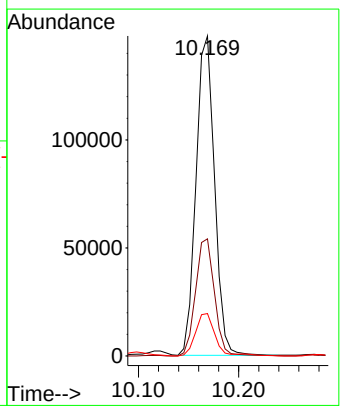


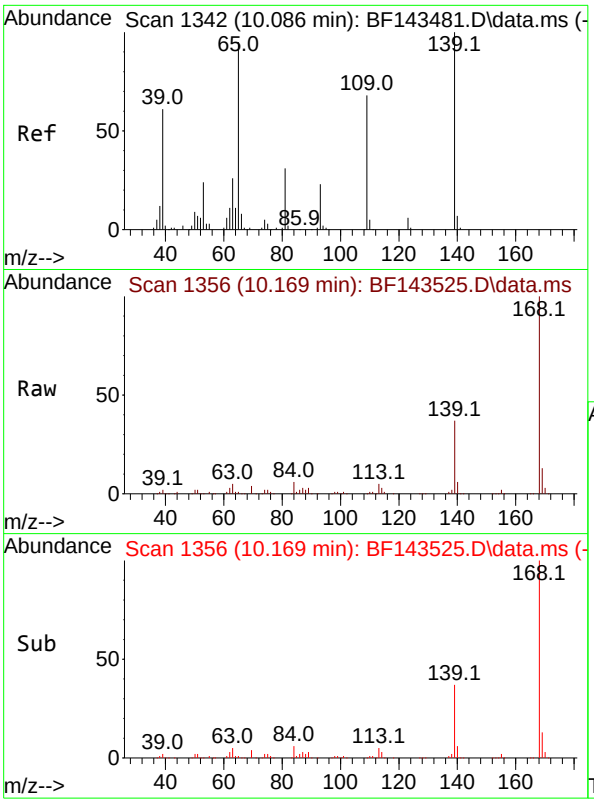


#55
Dibenzofuran
Concen: 10.465 ng
RT: 10.169 min Scan# 1356
Delta R.T. -0.006 min
Lab File: BF143525.D
Acq: 21 Aug 2025 12:46

Tgt Ion:168 Resp: 189690

Ion	Ratio	Lower	Upper
168	100		
139	36.6	29.8	44.6
169	13.3	10.8	16.2



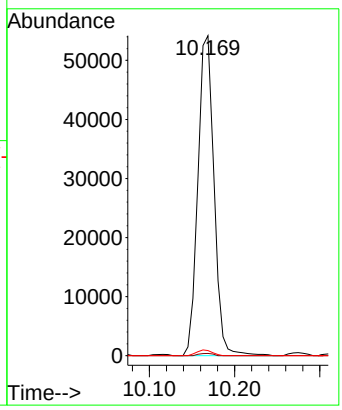


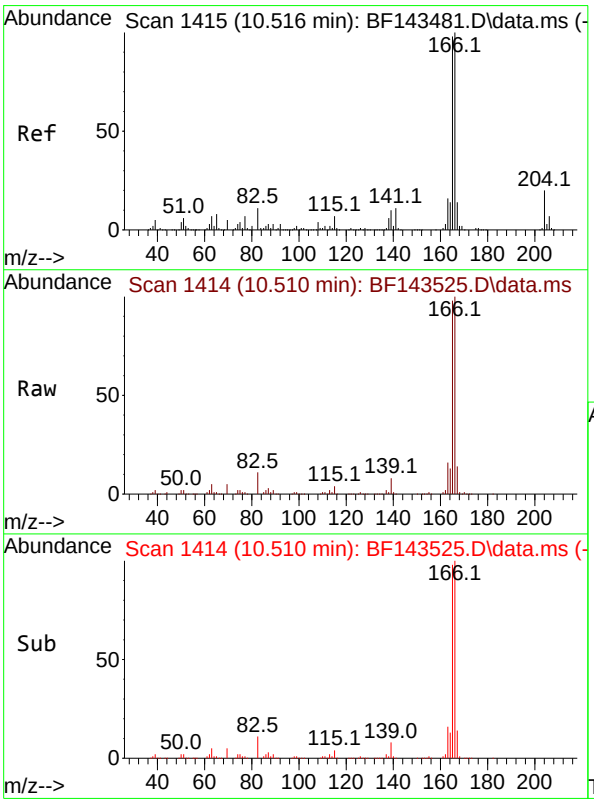
#56
4-Nitrophenol
Concen: 37.861 ng
RT: 10.169 min Scan# 1
Delta R.T. 0.083 min
Lab File: BF143525.D
Acq: 21 Aug 2025 12:46

Instrument :
BNA_F
ClientSampleId :
11M-N

Tgt Ion:139 Resp: 71352

Ion	Ratio	Lower	Upper
139	100		
109	0.7	48.2	88.2#
65	1.6	75.8	115.8#

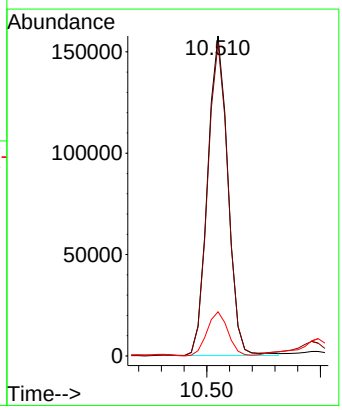


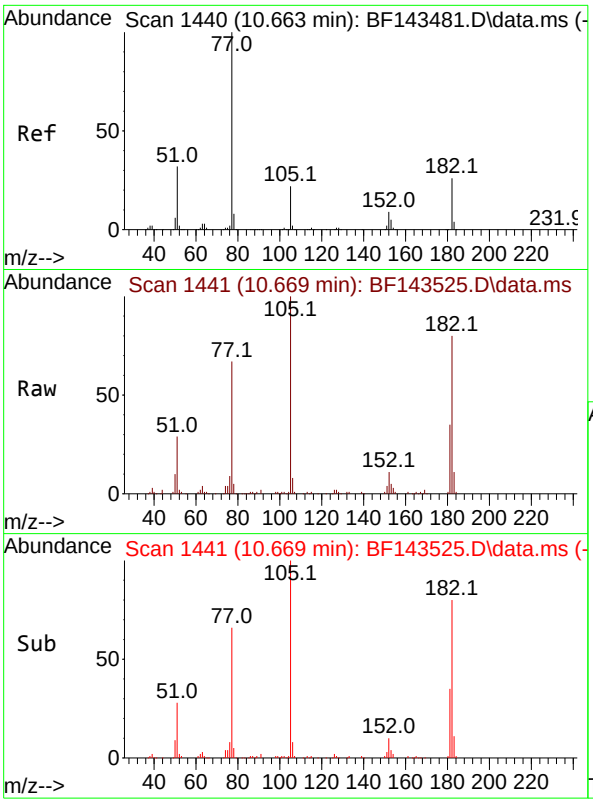


#58
Fluorene
Concen: 14.001 ng
RT: 10.510 min Scan# 1414
Delta R.T. -0.012 min
Lab File: BF143525.D
Acq: 21 Aug 2025 12:46

Tgt Ion:166 Resp: 195333

Ion	Ratio	Lower	Upper
166	100		
165	97.7	78.3	117.5
167	13.8	11.0	16.4



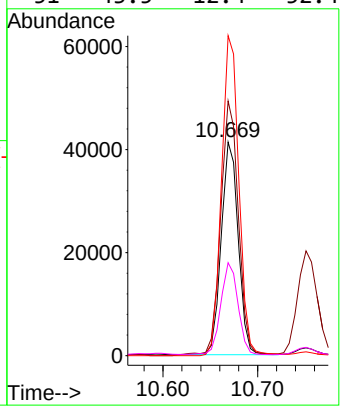


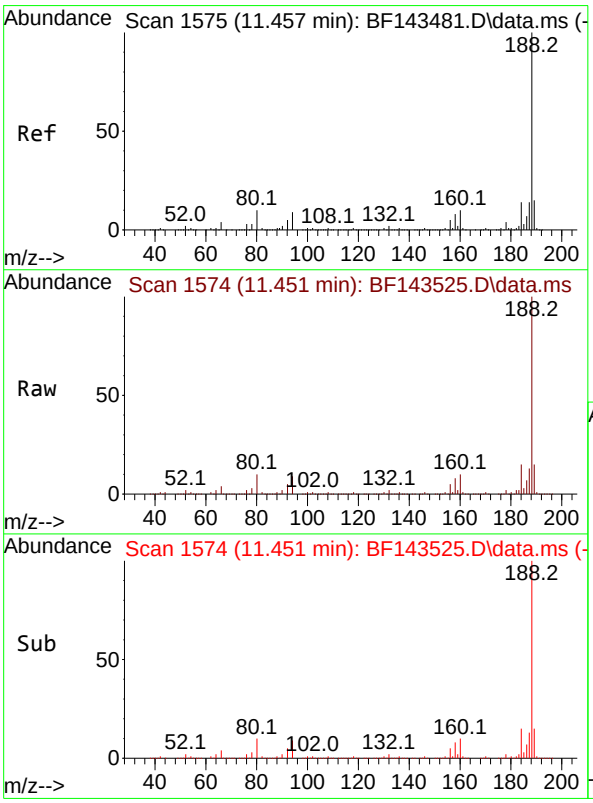
#63
Azobenzene
Concen: 3.918 ng
RT: 10.669 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF143525.D
Acq: 21 Aug 2025 12:46

Instrument :
BNA_F
ClientSampleId :
11M-N

Tgt Ion: 77 Resp: 51513

Ion	Ratio	Lower	Upper
77	100		
182	119.3	6.2	46.2#
105	149.8	2.2	42.2#
51	43.5	12.4	52.4

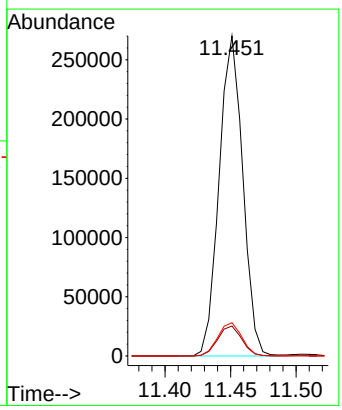


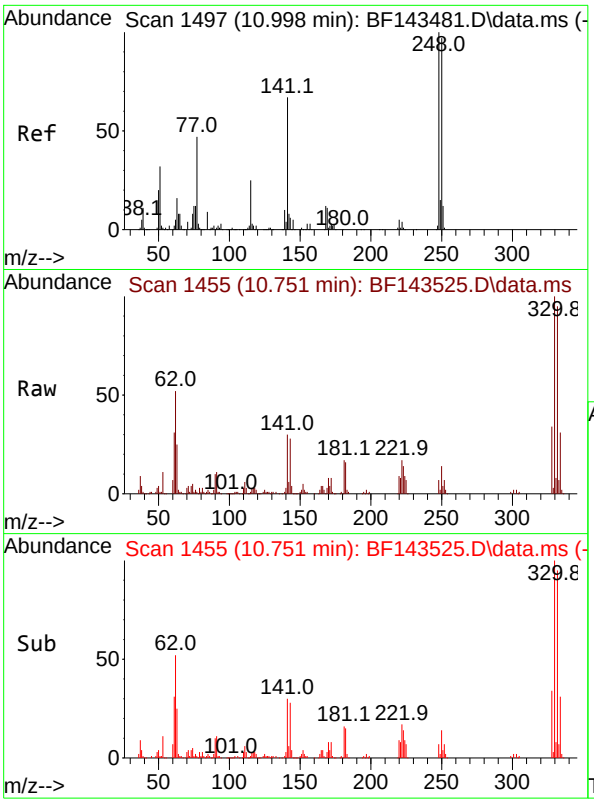


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.451 min Scan# 1574
Delta R.T. -0.006 min
Lab File: BF143525.D
Acq: 21 Aug 2025 12:46

Tgt Ion:188 Resp: 338286

Ion	Ratio	Lower	Upper
188	100		
94	9.3	7.4	11.2
80	10.4	8.2	12.4



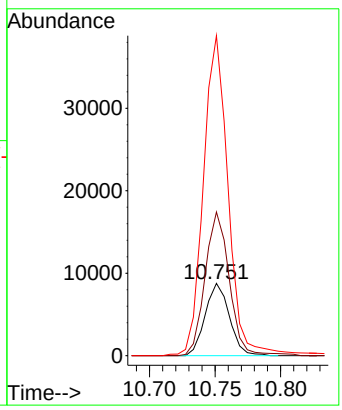


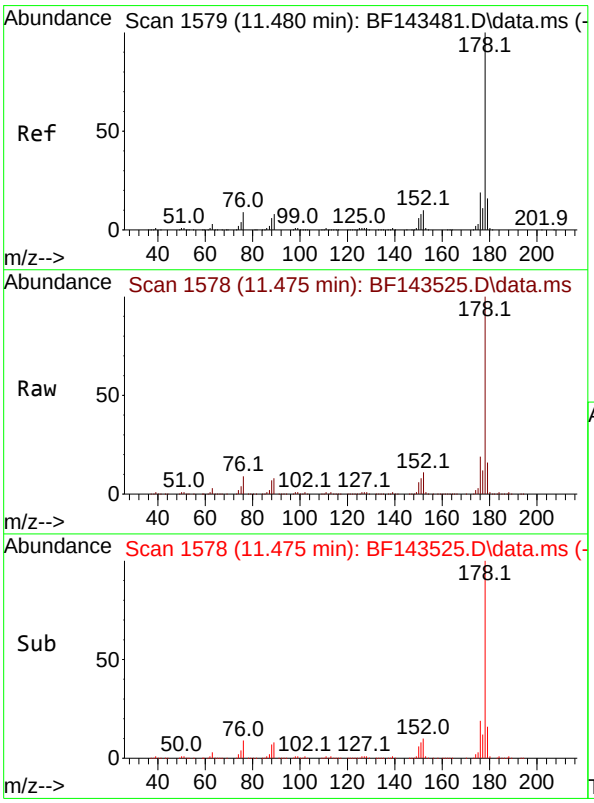
#67
4-Bromophenyl-phenylether
Concen: 2.792 ng
RT: 10.751 min Scan# 14
Delta R.T. -0.247 min
Lab File: BF143525.D
Acq: 21 Aug 2025 12:46

Instrument :
BNA_F
ClientSampleId :
11M-N

Tgt Ion:248 Resp: 11269

Ion	Ratio	Lower	Upper
248	100		
250	198.7	77.8	116.8#
141	442.8	54.0	81.0#

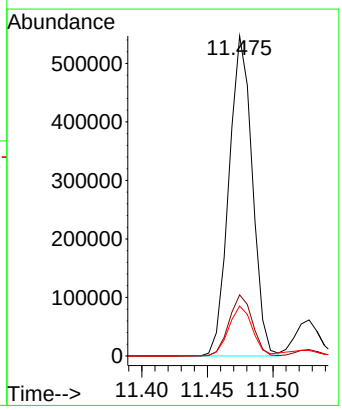


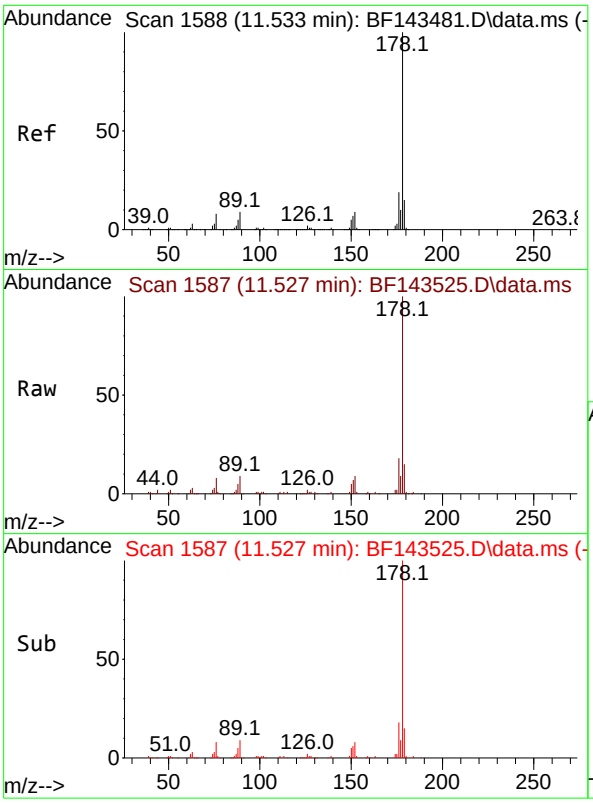


#71
Phenanthrene
Concen: 37.445 ng
RT: 11.475 min Scan# 1578
Delta R.T. -0.006 min
Lab File: BF143525.D
Acq: 21 Aug 2025 12:46

Tgt Ion:178 Resp: 678352

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.5	23.3
179	15.6	12.5	18.7



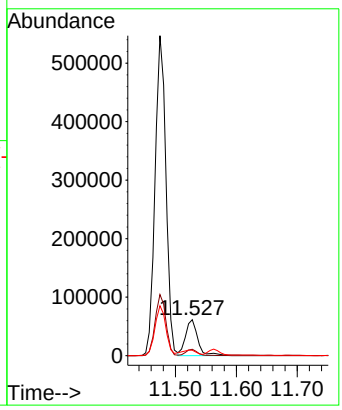


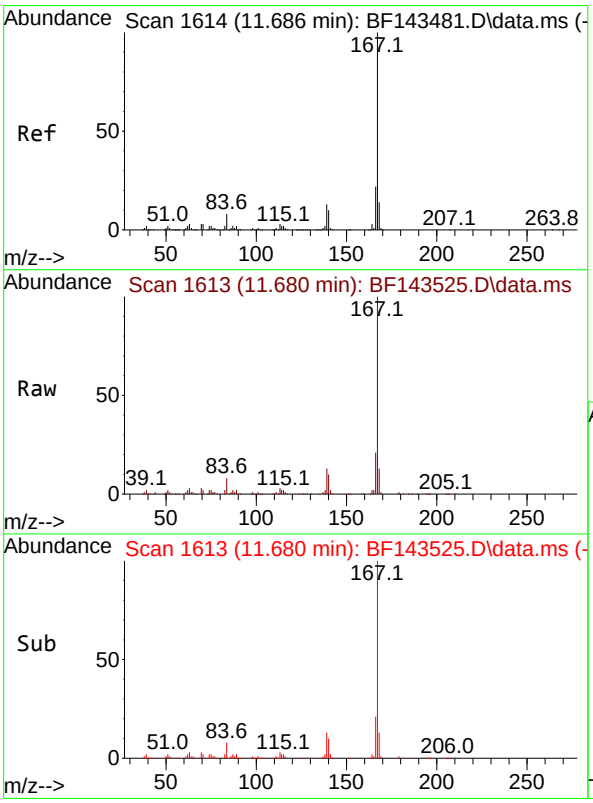
#72
Anthracene
Concen: 4.675 ng
RT: 11.527 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143525.D
Acq: 21 Aug 2025 12:46

Instrument :
BNA_F
ClientSampleId :
11M-N

Tgt Ion:178 Resp: 85798

Ion	Ratio	Lower	Upper
178	100		
176	17.7	15.0	22.4
179	15.4	12.3	18.5

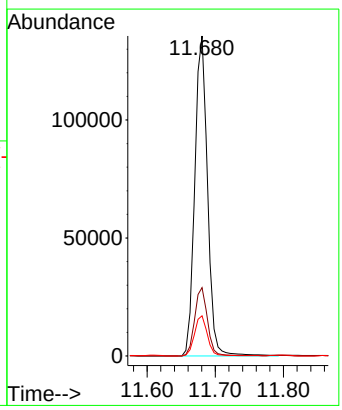


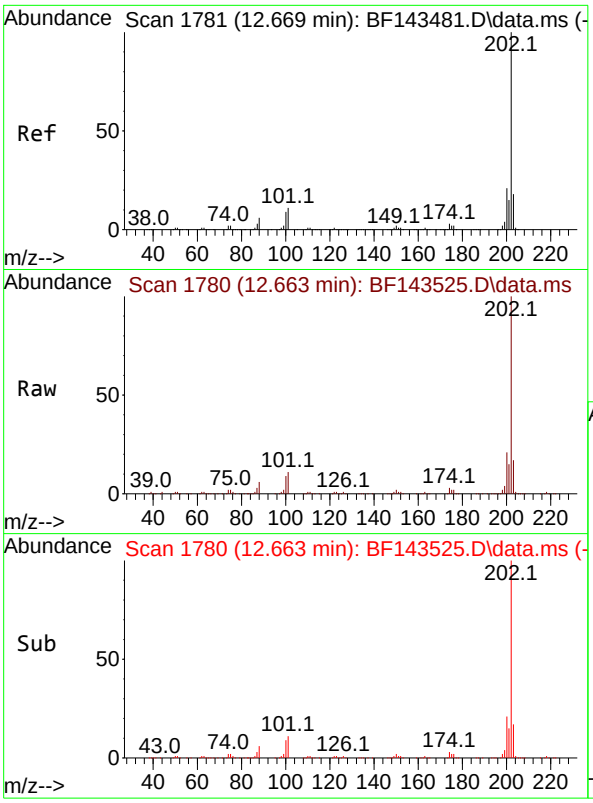


#73
Carbazole
Concen: 11.720 ng
RT: 11.680 min Scan# 1613
Delta R.T. -0.006 min
Lab File: BF143525.D
Acq: 21 Aug 2025 12:46

Tgt Ion:167 Resp: 176236

Ion	Ratio	Lower	Upper
167	100		
166	21.3	17.3	25.9
139	12.5	10.0	15.0



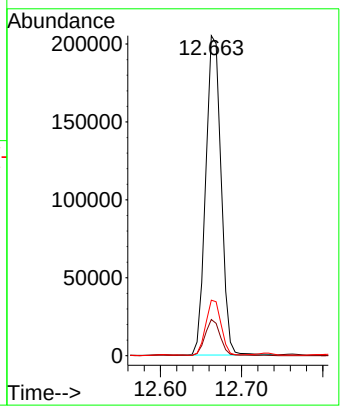


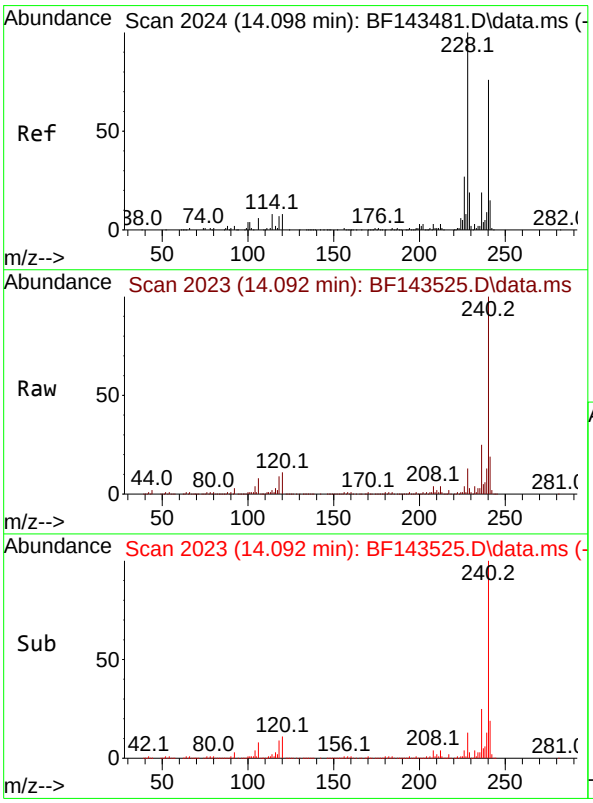
#75
Fluoranthene
Concen: 16.565 ng
RT: 12.663 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF143525.D
Acq: 21 Aug 2025 12:46

Instrument :
BNA_F
ClientSampleId :
11M-N

Tgt Ion:202 Resp: 269271

Ion	Ratio	Lower	Upper
202	100		
101	11.3	0.0	31.3
203	17.3	0.0	37.9

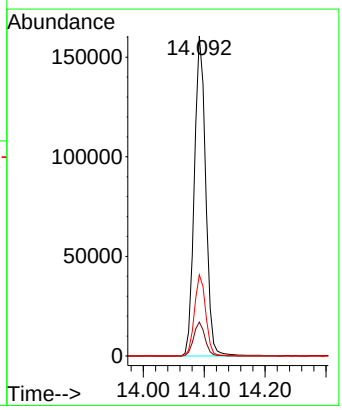


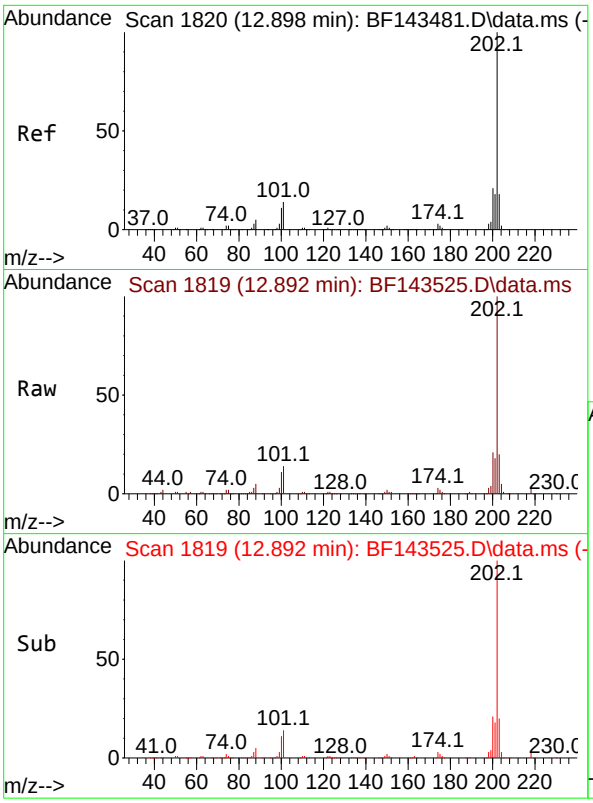


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.092 min Scan# 2023
Delta R.T. -0.012 min
Lab File: BF143525.D
Acq: 21 Aug 2025 12:46

Tgt Ion:240 Resp: 208452

Ion	Ratio	Lower	Upper
240	100		
120	10.6	8.6	12.8
236	25.4	20.4	30.6



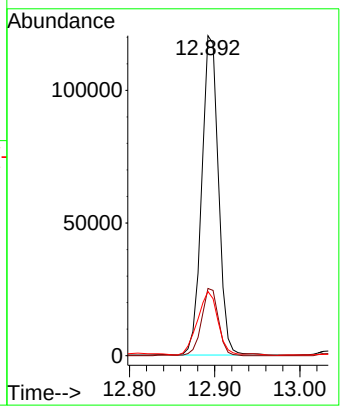


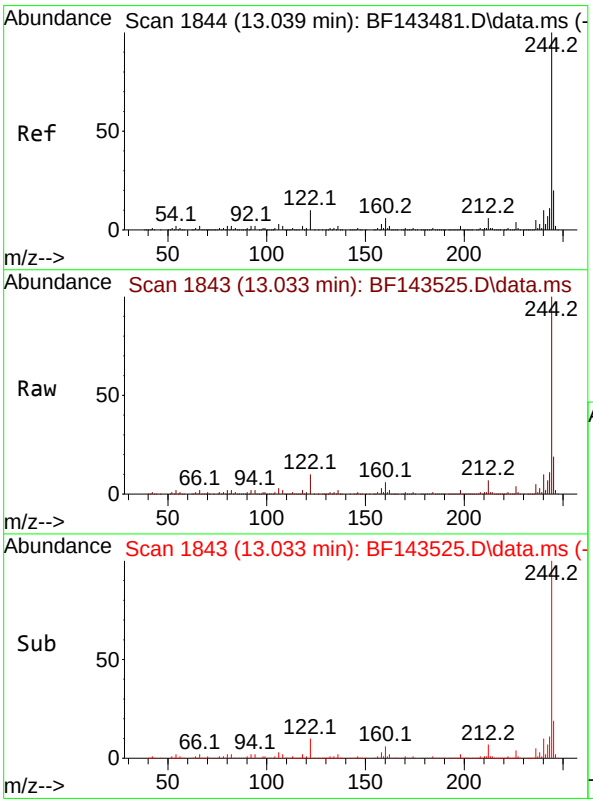
#78
Pyrene
Concen: 9.563 ng
RT: 12.892 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF143525.D
Acq: 21 Aug 2025 12:46

Instrument :
BNA_F
ClientSampleId :
11M-N

Tgt Ion:202 Resp: 163978

Ion	Ratio	Lower	Upper
202	100		
200	21.0	17.0	25.4
203	20.0	14.3	21.5

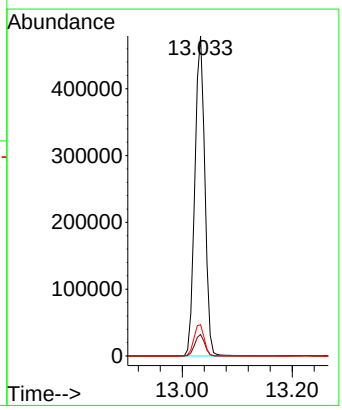


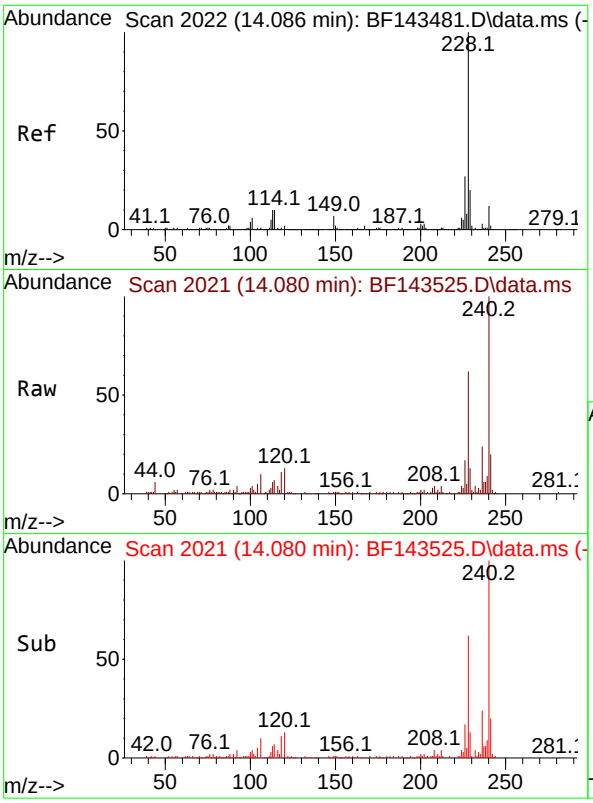


#79
Terphenyl-d14
Concen: 50.494 ng
RT: 13.033 min Scan# 1843
Delta R.T. -0.006 min
Lab File: BF143525.D
Acq: 21 Aug 2025 12:46

Tgt Ion:244 Resp: 603175

Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.2	7.8
122	9.7	7.9	11.9



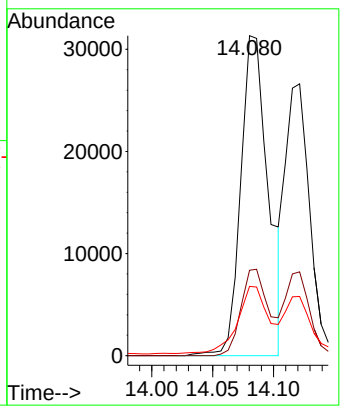


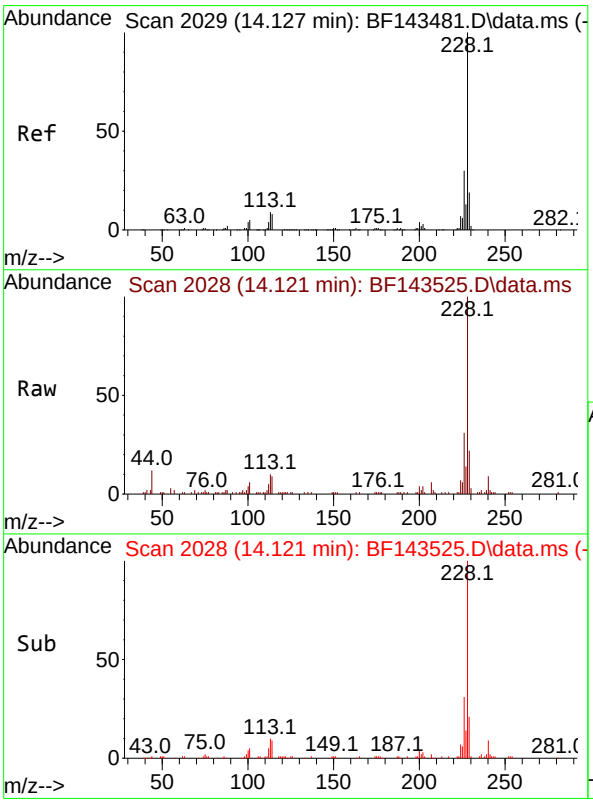
#81
Benzo(a)anthracene
Concen: 3.675 ng
RT: 14.080 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF143525.D
Acq: 21 Aug 2025 12:46

Instrument :
BNA_F
ClientSampleId :
11M-N

Tgt Ion:228 Resp: 49325

Ion	Ratio	Lower	Upper
228	100		
226	26.7	21.7	32.5
229	21.6	15.7	23.5

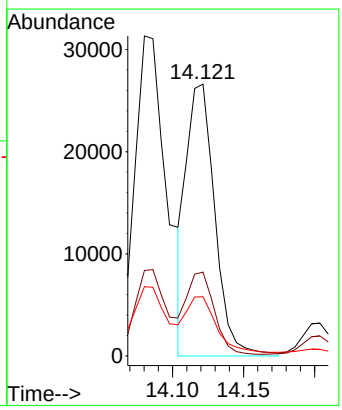


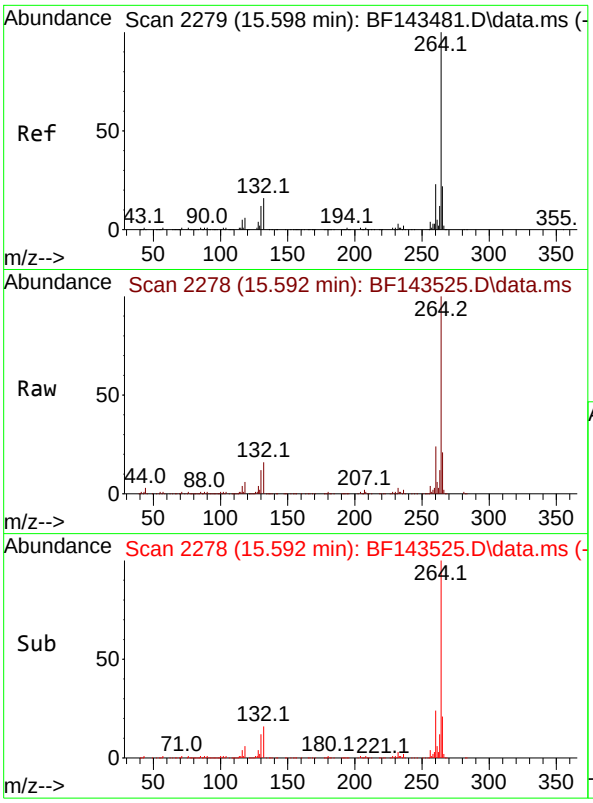


#83
Chrysene
Concen: 3.088 ng
RT: 14.121 min Scan# 2028
Delta R.T. -0.006 min
Lab File: BF143525.D
Acq: 21 Aug 2025 12:46

Tgt Ion:228 Resp: 37243

Ion	Ratio	Lower	Upper
228	100		
226	30.8	23.7	35.5
229	21.8	15.7	23.5



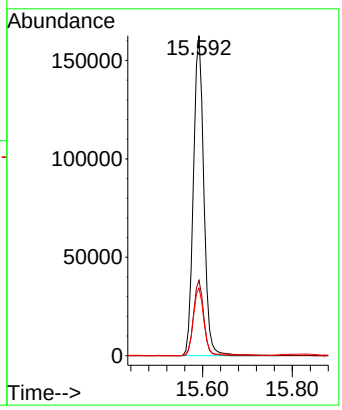


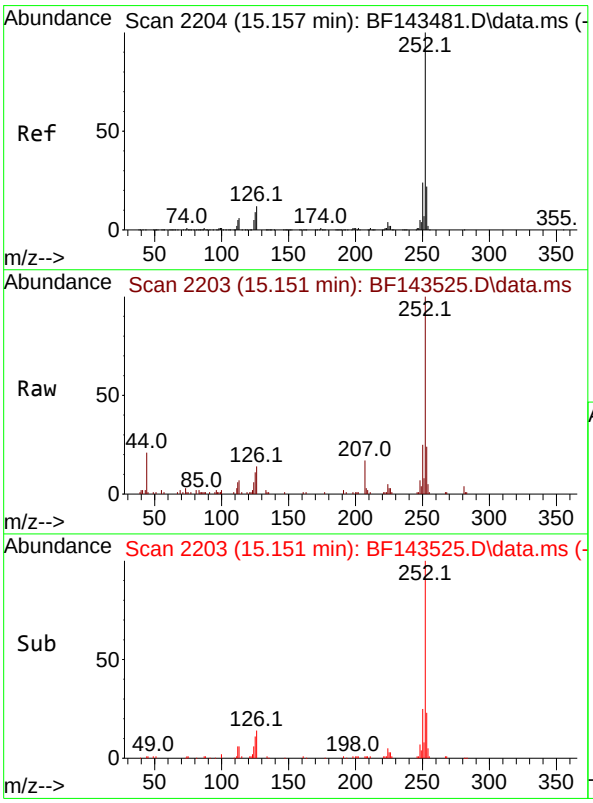
#86
Perylene-d12
Concen: 20.000 ng
RT: 15.592 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF143525.D
Acq: 21 Aug 2025 12:46

Instrument :
BNA_F
ClientSampleId :
11M-N

Tgt Ion:264 Resp: 261830

Ion	Ratio	Lower	Upper
264	100		
260	23.5	18.7	28.1
265	21.1	17.6	26.4

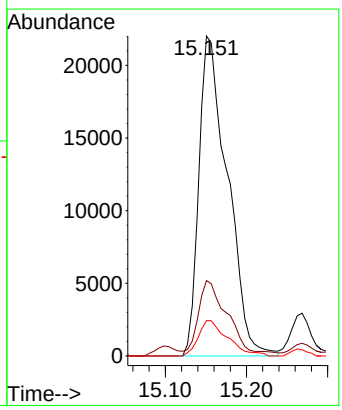


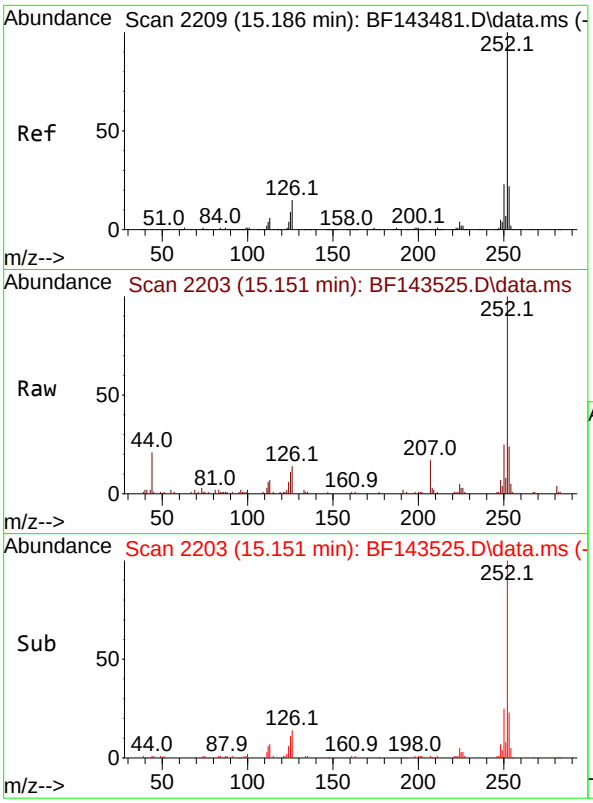


#88
Benzo(b)fluoranthene
Concen: 3.706 ng
RT: 15.151 min Scan# 2203
Delta R.T. -0.006 min
Lab File: BF143525.D
Acq: 21 Aug 2025 12:46

Tgt Ion:252 Resp: 53932

Ion	Ratio	Lower	Upper
252	100		
253	23.5	17.5	26.3
125	11.0	7.4	11.0#



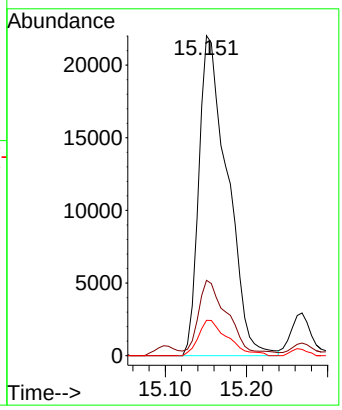


#89
Benzo(k)fluoranthene
Concen: 3.870 ng
RT: 15.151 min Scan# 2
Delta R.T. -0.041 min
Lab File: BF143525.D
Acq: 21 Aug 2025 12:46

Instrument :
BNA_F
ClientSampleId :
11M-N

Tgt Ion:252 Resp: 53932

Ion	Ratio	Lower	Upper
252	100		
253	23.5	17.4	26.2
125	11.0	7.4	11.0#



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
Data File : BF143526.D
Acq On : 21 Aug 2025 13:15
Operator : RC/JU
Sample : Q2819-08
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
11M-E

Quant Time: Aug 21 13:52:58 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 21 06:12:21 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.928	152	121867	20.000	ng	0.00
21) Naphthalene-d8	8.204	136	459647	20.000	ng	0.00
39) Acenaphthene-d10	9.963	164	239052	20.000	ng	0.00
64) Phenanthrene-d10	11.451	188	332166	20.000	ng	0.00
76) Chrysene-d12	14.092	240	225807	20.000	ng	-0.01
86) Perylene-d12	15.592	264	280214	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.563	112	417584	59.833	ng	0.00
7) Phenol-d6	6.557	99	564215	65.489	ng	-0.02
23) Nitrobenzene-d5	7.481	82	340976	43.289	ng	-0.02
42) 2,4,6-Tribromophenol	10.751	330	222437	99.962	ng	-0.01
45) 2-Fluorobiphenyl	9.281	172	790732	54.667	ng	0.00
79) Terphenyl-d14	13.033	244	779515	60.241	ng	0.00
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	7.481	70	46322	8.797	ng	# 76
25) Isophorone	7.481	82	326618	22.621	ng	# 65
51) 2,6-Dinitrotoluene	9.963	165	30425	10.196	ng	# 25
57) 2,4-Dinitrotoluene	9.963	165	30425	7.636	ng	# 26
63) Azobenzene	10.669	77	55798	4.169	ng	# 1
67) 4-Bromophenyl-phenylether	10.751	248	14785	3.731	ng	# 1
71) Phenanthrene	11.475	178	80869	4.546	ng	99
75) Fluoranthene	12.663	202	131237	8.222	ng	99
78) Pyrene	12.892	202	105809	5.697	ng	98
81) Benzo(a)anthracene	14.086	228	56053	3.856	ng	98
83) Chrysene	14.116	228	57195	4.378	ng	97
88) Benzo(b)fluoranthene	15.151	252	109628	7.038	ng	97
89) Benzo(k)fluoranthene	15.151	252	109628	7.351	ng	97
90) Benzo(a)pyrene	15.527	252	54410	3.763	ng	98
92) Benzo(g,h,i)perylene	17.580	276	32686	2.038	ng	96

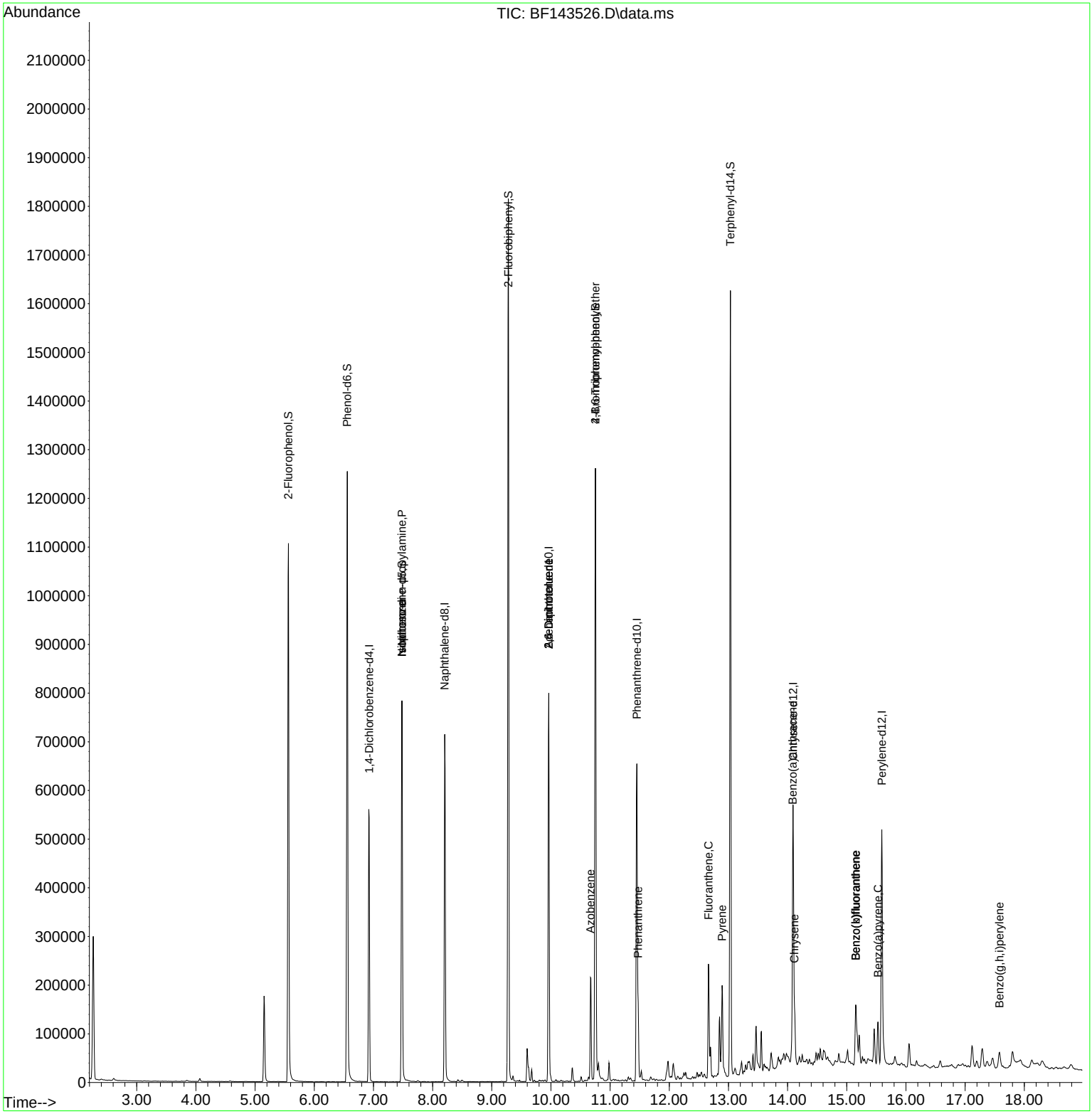
(#) = qualifier out of range (m) = manual integration (+) = signals summed

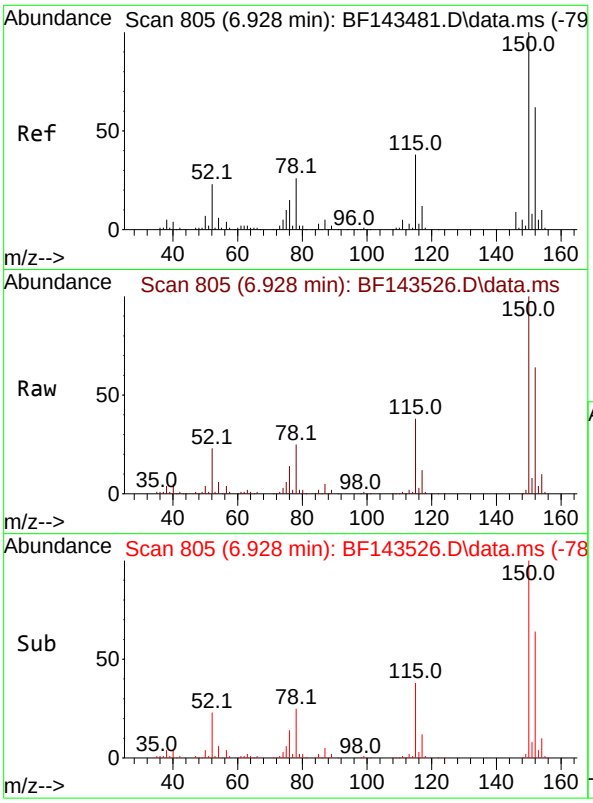
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
Data File : BF143526.D
Acq On : 21 Aug 2025 13:15
Operator : RC/JU
Sample : Q2819-08
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
11M-E

Quant Time: Aug 21 13:52:58 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 21 06:12:21 2025
Response via : Initial Calibration



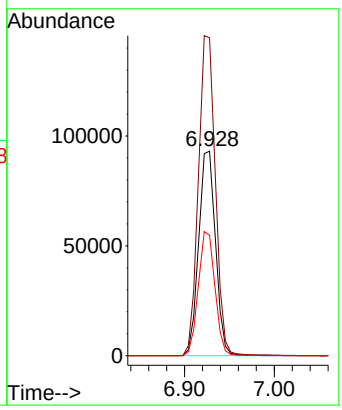


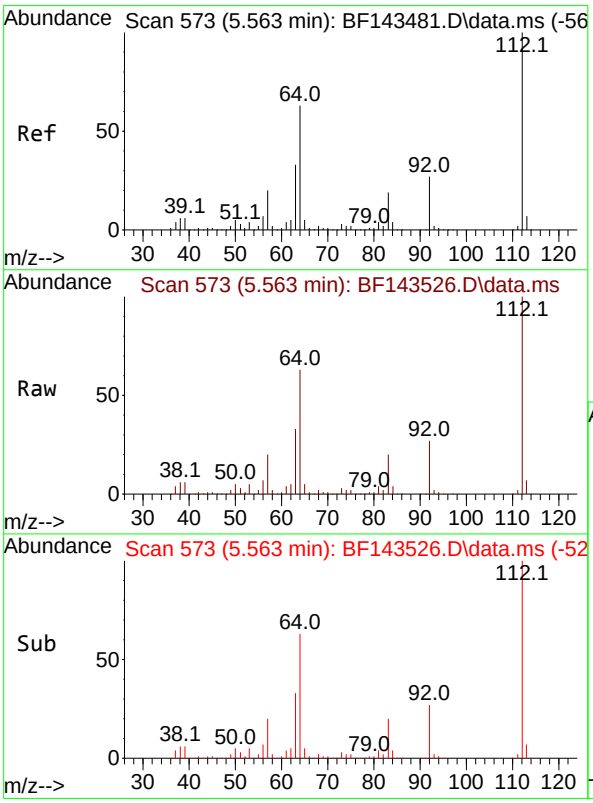
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.928 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF143526.D
Acq: 21 Aug 2025 13:15

Instrument :
BNA_F
ClientSampleId :
11M-E

Tgt Ion:152 Resp: 121867

Ion	Ratio	Lower	Upper
152	100		
150	155.5	128.9	193.3
115	58.8	49.2	73.8

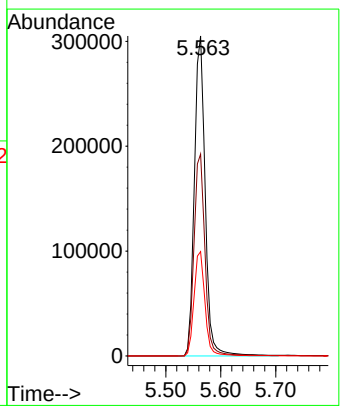


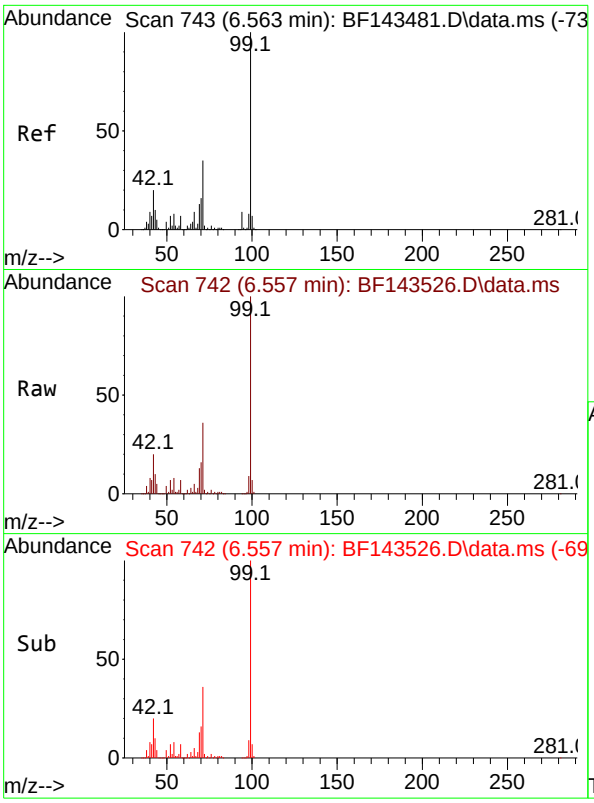


#5
2-Fluorophenol
Concen: 59.833 ng
RT: 5.563 min Scan# 573
Delta R.T. 0.000 min
Lab File: BF143526.D
Acq: 21 Aug 2025 13:15

Tgt Ion:112 Resp: 417584

Ion	Ratio	Lower	Upper
112	100		
64	63.1	50.4	75.6
63	32.6	26.4	39.6



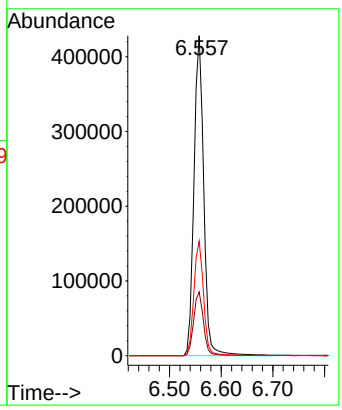


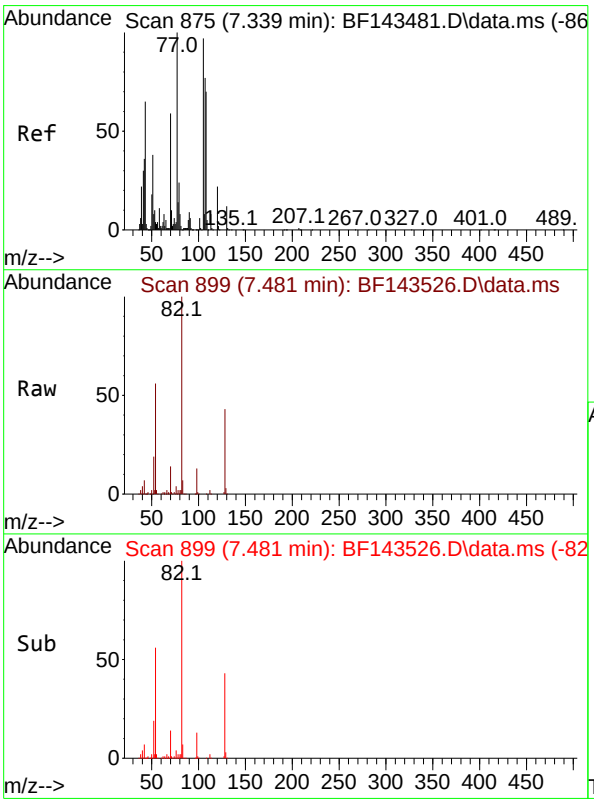
#7
Phenol-d6
Concen: 65.489 ng
RT: 6.557 min Scan# 7
Delta R.T. -0.018 min
Lab File: BF143526.D
Acq: 21 Aug 2025 13:15

Instrument :
BNA_F
ClientSampleId :
11M-E

Tgt Ion: 99 Resp: 564215

Ion	Ratio	Lower	Upper
99	100		
42	19.9	16.3	24.5
71	35.8	28.2	42.2

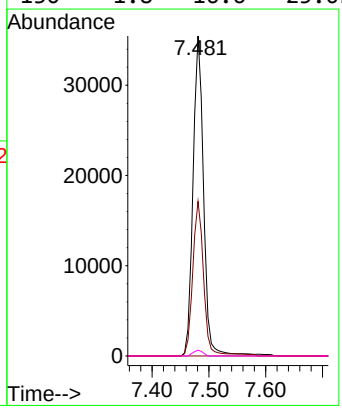


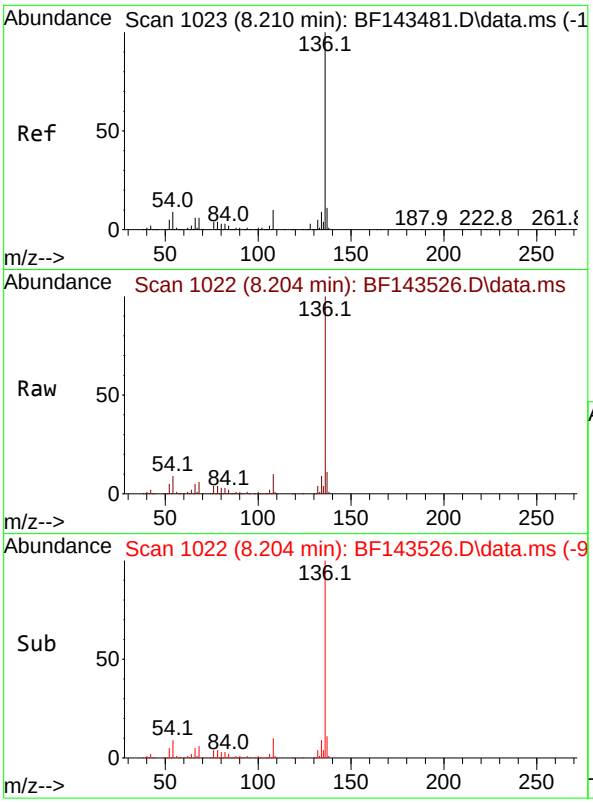


#19
n-Nitroso-di-n-propylamine
Concen: 8.797 ng
RT: 7.481 min Scan# 899
Delta R.T. 0.129 min
Lab File: BF143526.D
Acq: 21 Aug 2025 13:15

Tgt Ion: 70 Resp: 46322

Ion	Ratio	Lower	Upper
70	100		
42	48.3	49.3	73.9#
101	0.0	7.8	11.8#
130	1.8	16.6	25.0#



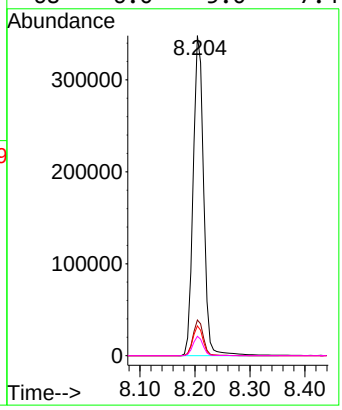


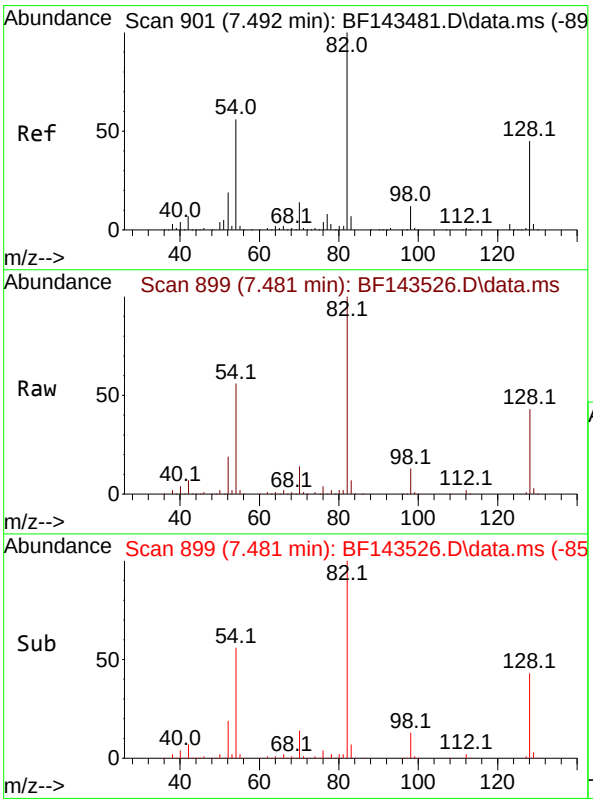
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.204 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143526.D
Acq: 21 Aug 2025 13:15

Instrument :
BNA_F
ClientSampleId :
11M-E

Tgt Ion:136 Resp: 459647

Ion	Ratio	Lower	Upper
136	100		
137	11.2	9.0	13.4
54	9.3	7.4	11.2
68	6.0	5.0	7.4

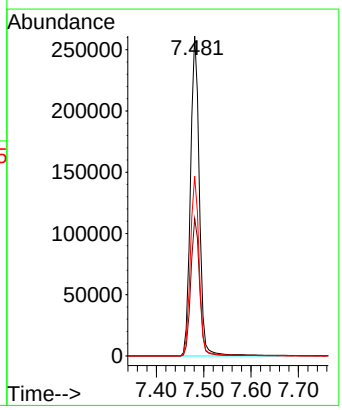


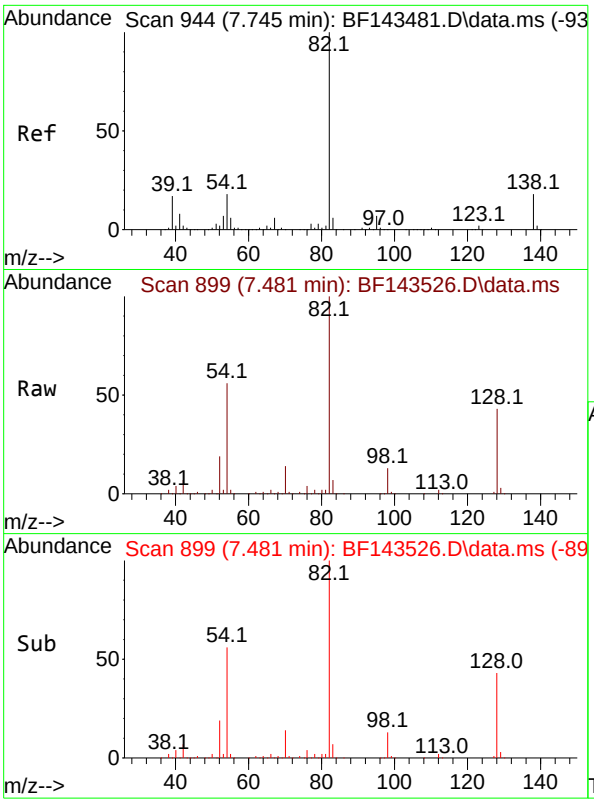


#23
Nitrobenzene-d5
Concen: 43.289 ng
RT: 7.481 min Scan# 899
Delta R.T. -0.018 min
Lab File: BF143526.D
Acq: 21 Aug 2025 13:15

Tgt Ion: 82 Resp: 340976

Ion	Ratio	Lower	Upper
82	100		
128	43.0	35.5	53.3
54	56.2	44.3	66.5



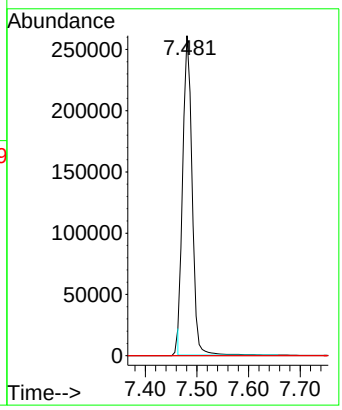


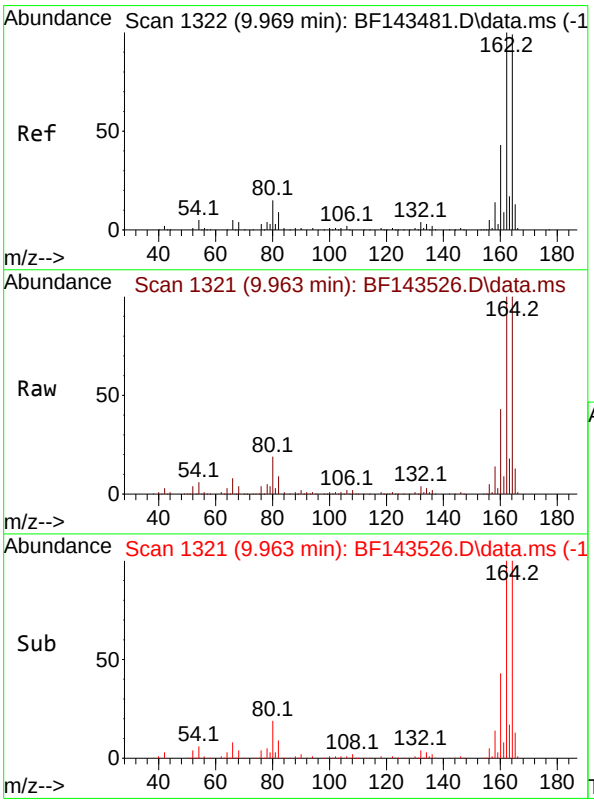
#25
Isophorone
Concen: 22.621 ng
RT: 7.481 min Scan# 8
Delta R.T. -0.276 min
Lab File: BF143526.D
Acq: 21 Aug 2025 13:15

Instrument :
BNA_F
ClientSampleId :
11M-E

Tgt Ion: 82 Resp: 326618

Ion	Ratio	Lower	Upper
82	100		
95	0.0	5.8	8.8#
138	0.0	14.2	21.4#

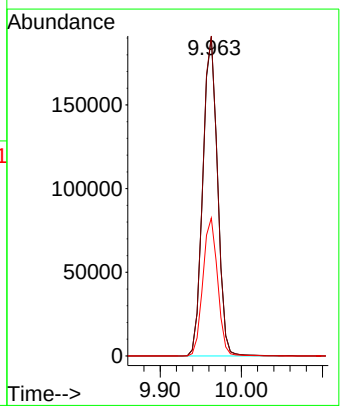


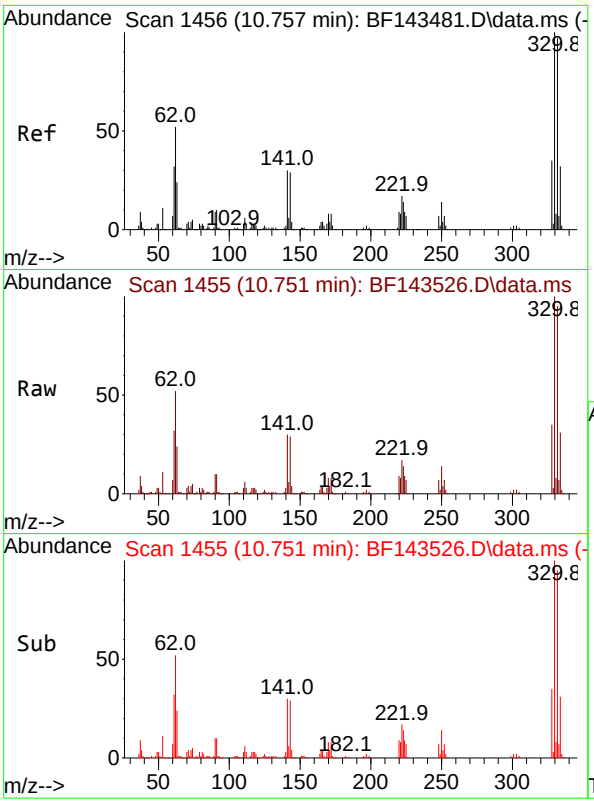


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.963 min Scan# 1321
Delta R.T. -0.006 min
Lab File: BF143526.D
Acq: 21 Aug 2025 13:15

Tgt Ion:164 Resp: 239052

Ion	Ratio	Lower	Upper
164	100		
162	100.5	80.5	120.7
160	43.3	34.3	51.5



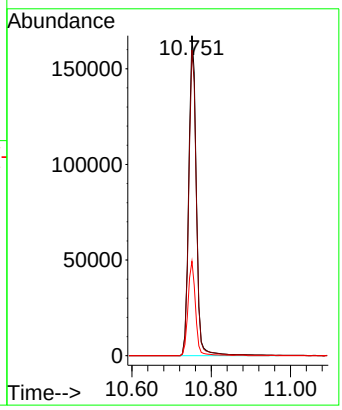


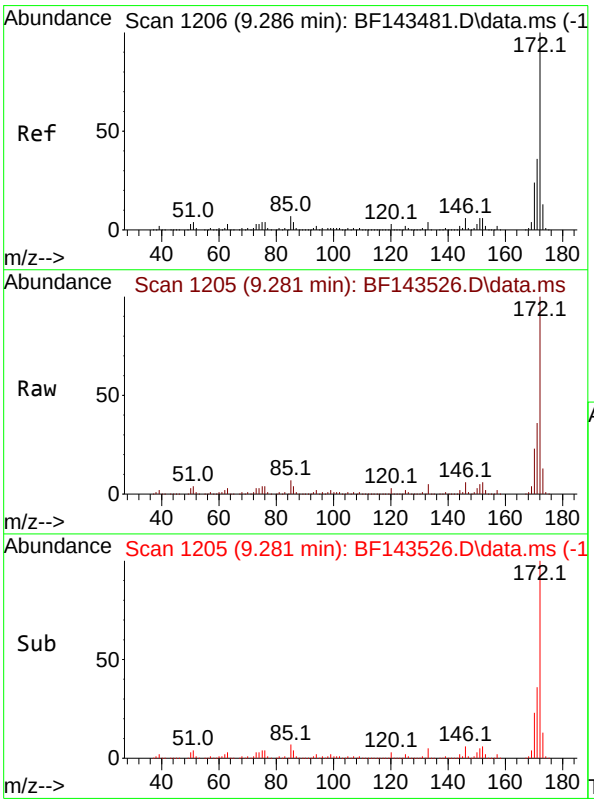
#42
2,4,6-Tribromophenol
Concen: 99.962 ng
RT: 10.751 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF143526.D
Acq: 21 Aug 2025 13:15

Instrument :
BNA_F
ClientSampleId :
11M-E

Tgt Ion:330 Resp: 222437

Ion	Ratio	Lower	Upper
330	100		
332	95.8	78.0	117.0
141	29.3	23.7	35.5

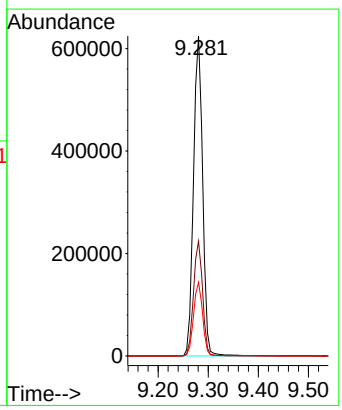


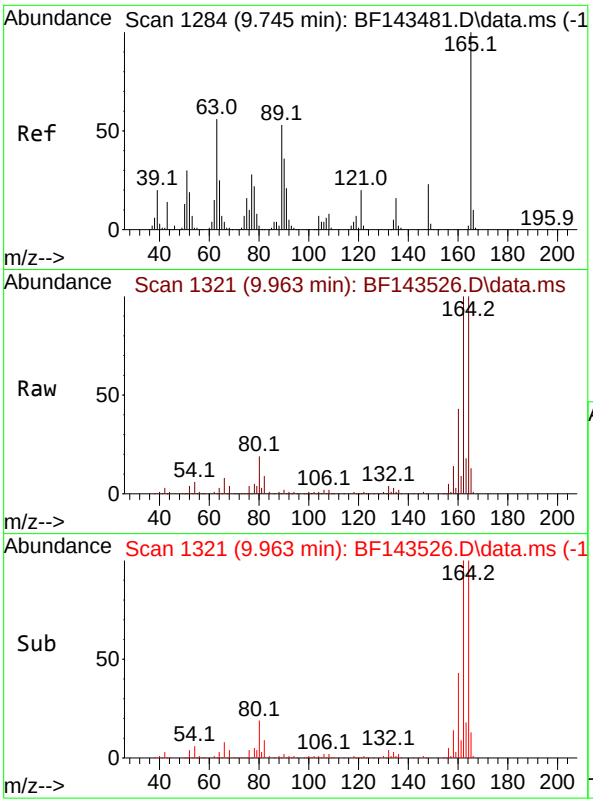


#45
2-Fluorobiphenyl
Concen: 54.667 ng
RT: 9.281 min Scan# 1205
Delta R.T. -0.006 min
Lab File: BF143526.D
Acq: 21 Aug 2025 13:15

Tgt Ion:172 Resp: 790732

Ion	Ratio	Lower	Upper
172	100		
171	35.9	28.8	43.2
170	23.0	18.8	28.2



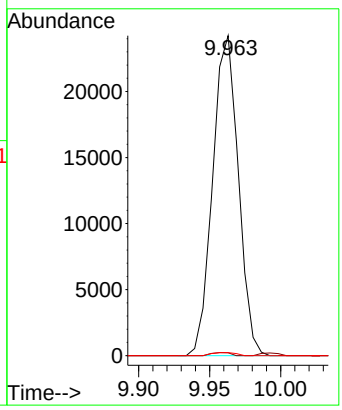


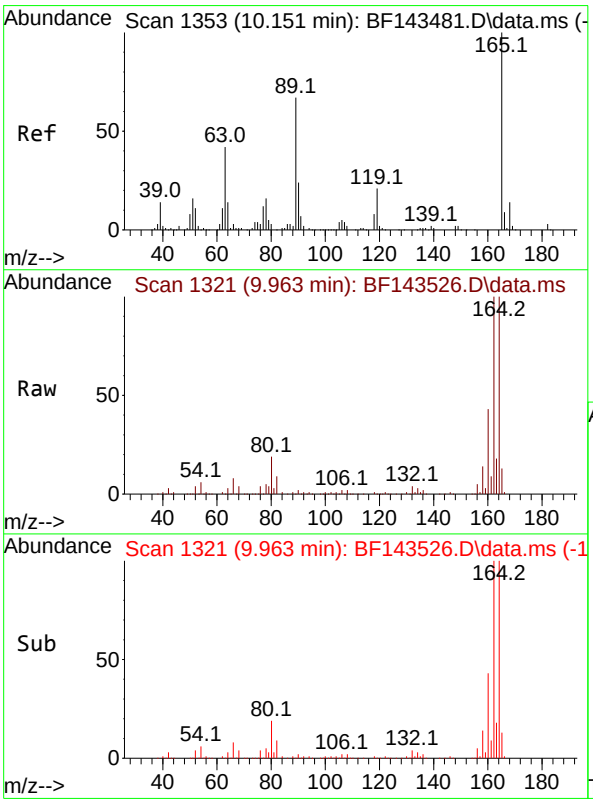
#51
2,6-Dinitrotoluene
Concen: 10.196 ng
RT: 9.963 min Scan# 1
Delta R.T. 0.212 min
Lab File: BF143526.D
Acq: 21 Aug 2025 13:15

Instrument :
BNA_F
ClientSampleId :
11M-E

Tgt Ion:165 Resp: 30425

Ion	Ratio	Lower	Upper
165	100		
63	0.9	45.0	67.6#
89	0.9	42.5	63.7#

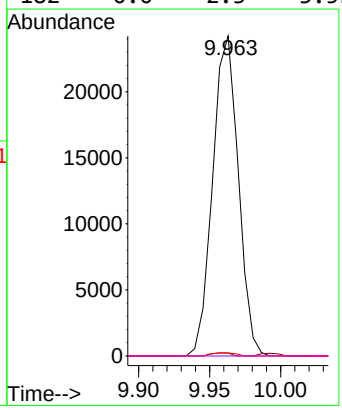


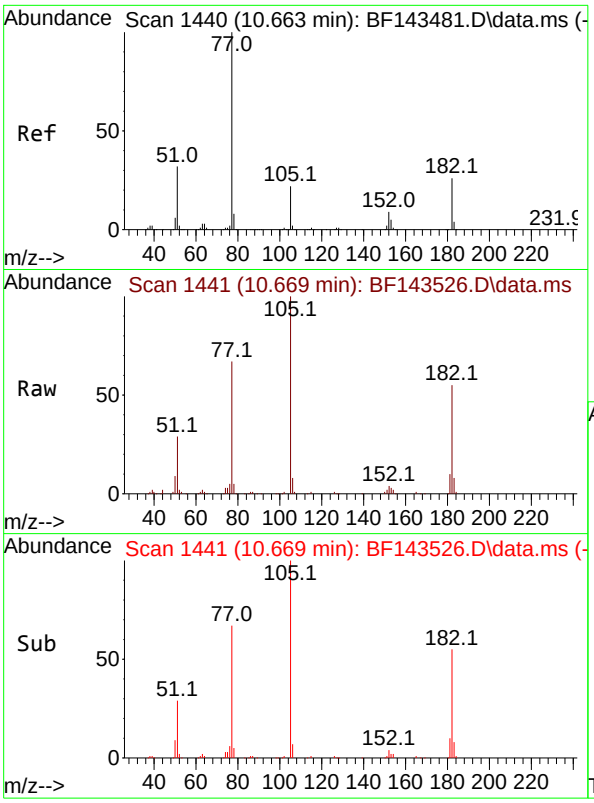


#57
2,4-Dinitrotoluene
Concen: 7.636 ng
RT: 9.963 min Scan# 1321
Delta R.T. -0.194 min
Lab File: BF143526.D
Acq: 21 Aug 2025 13:15

Tgt Ion:165 Resp: 30425

Ion	Ratio	Lower	Upper
165	100		
63	0.9	34.9	52.3#
89	0.9	53.3	79.9#
182	0.0	2.3	3.5#



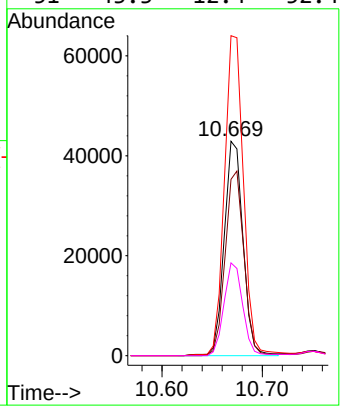


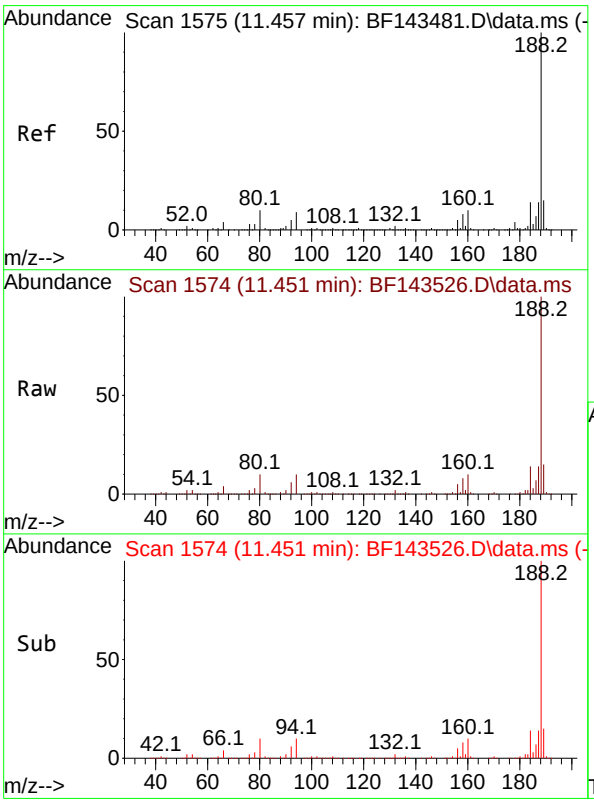
#63
Azobenzene
Concen: 4.169 ng
RT: 10.669 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF143526.D
Acq: 21 Aug 2025 13:15

Instrument :
BNA_F
ClientSampleId :
11M-E

Tgt Ion: 77 Resp: 55798

Ion	Ratio	Lower	Upper
77	100		
182	82.3	6.2	46.2#
105	149.3	2.2	42.2#
51	43.3	12.4	52.4

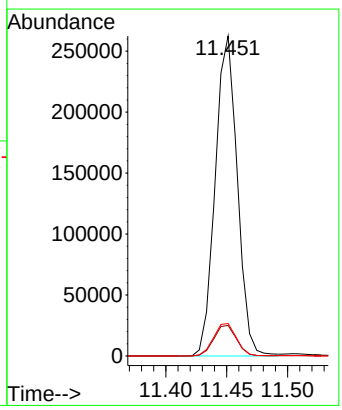


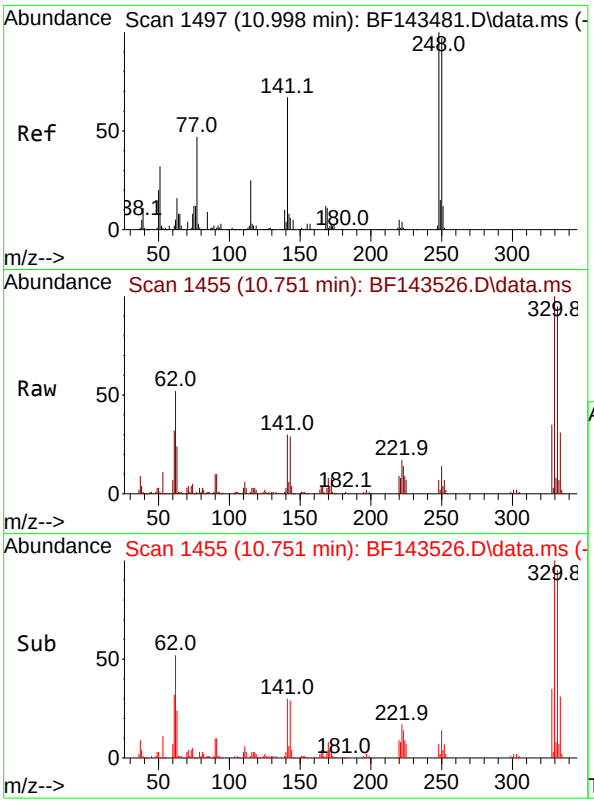


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.451 min Scan# 1574
Delta R.T. -0.006 min
Lab File: BF143526.D
Acq: 21 Aug 2025 13:15

Tgt Ion:188 Resp: 332166

Ion	Ratio	Lower	Upper
188	100		
94	9.6	7.4	11.2
80	10.2	8.2	12.4



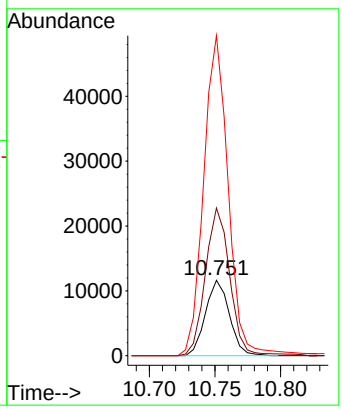


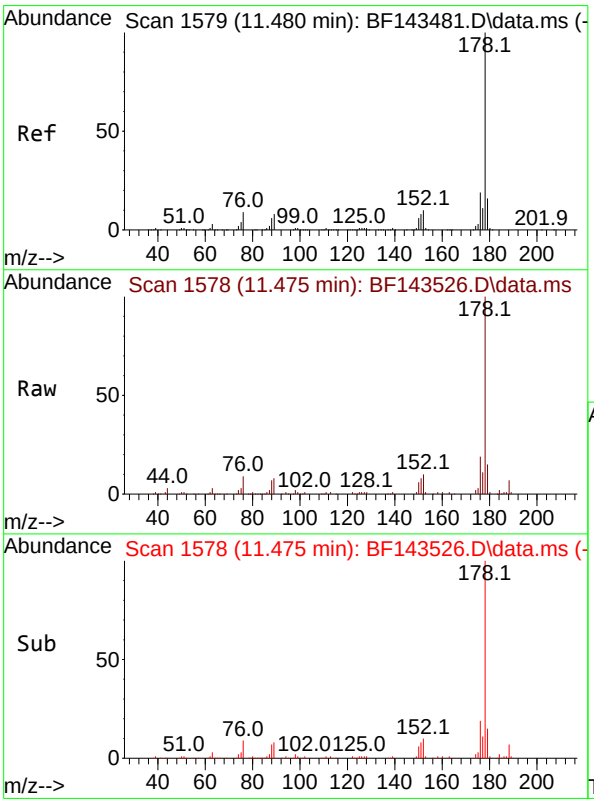
#67
4-Bromophenyl-phenylether
Concen: 3.731 ng
RT: 10.751 min Scan# 14
Delta R.T. -0.247 min
Lab File: BF143526.D
Acq: 21 Aug 2025 13:15

Instrument :
BNA_F
ClientSampleId :
11M-E

Tgt Ion:248 Resp: 14785

Ion	Ratio	Lower	Upper
248	100		
250	195.9	77.8	116.8#
141	424.2	54.0	81.0#

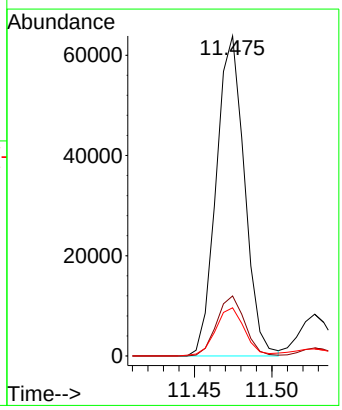


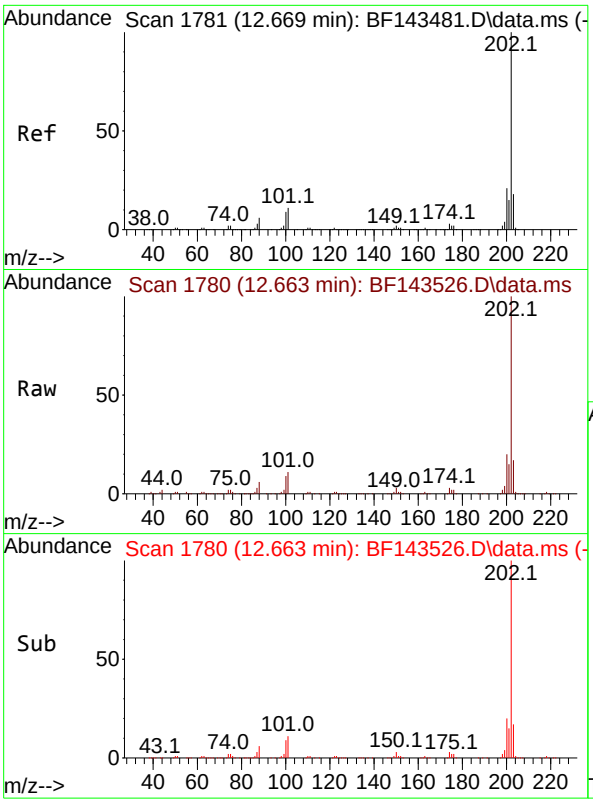


#71
Phenanthrene
Concen: 4.546 ng
RT: 11.475 min Scan# 1578
Delta R.T. -0.006 min
Lab File: BF143526.D
Acq: 21 Aug 2025 13:15

Tgt Ion:178 Resp: 80869

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.5	23.3
179	15.1	12.5	18.7



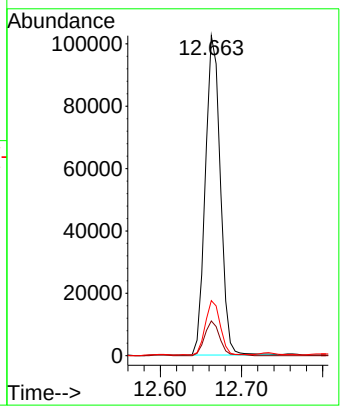


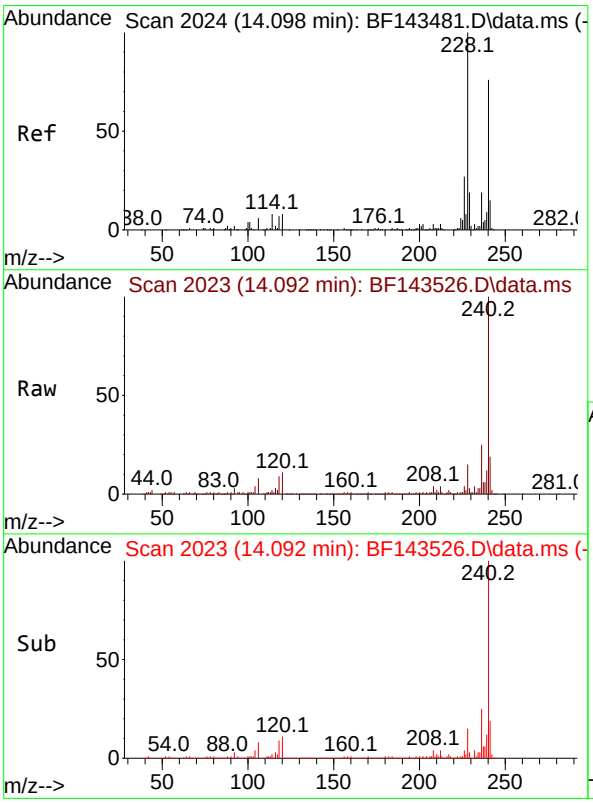
#75
Fluoranthene
Concen: 8.222 ng
RT: 12.663 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF143526.D
Acq: 21 Aug 2025 13:15

Instrument :
BNA_F
ClientSampleId :
11M-E

Tgt Ion:202 Resp: 131237

Ion	Ratio	Lower	Upper
202	100		
101	10.9	0.0	31.3
203	17.2	0.0	37.9

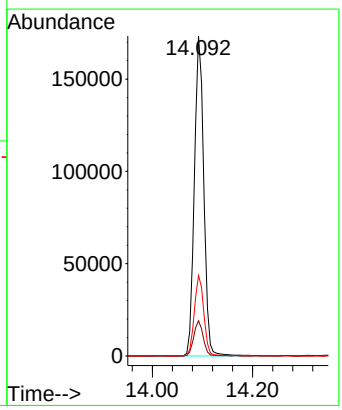


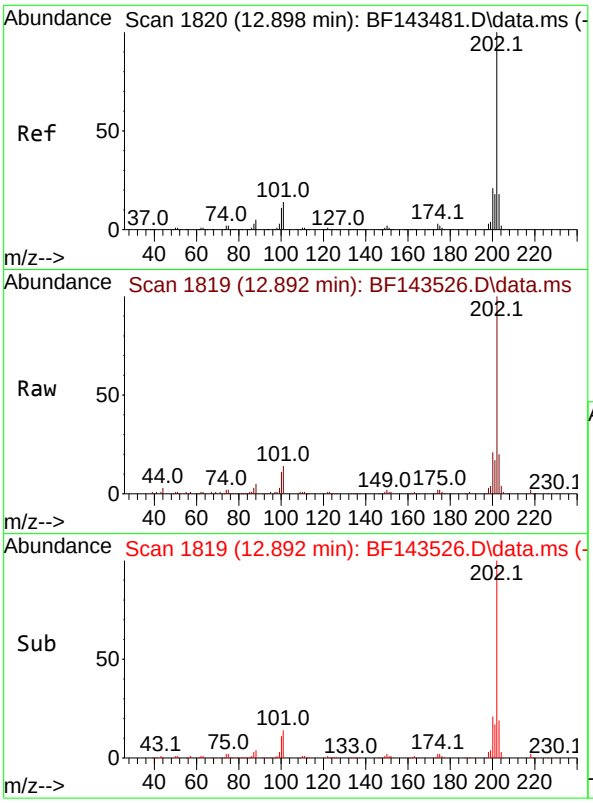


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.092 min Scan# 2023
Delta R.T. -0.012 min
Lab File: BF143526.D
Acq: 21 Aug 2025 13:15

Tgt Ion:240 Resp: 225807

Ion	Ratio	Lower	Upper
240	100		
120	11.0	8.6	12.8
236	25.1	20.4	30.6



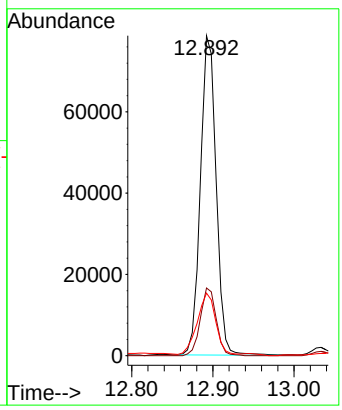


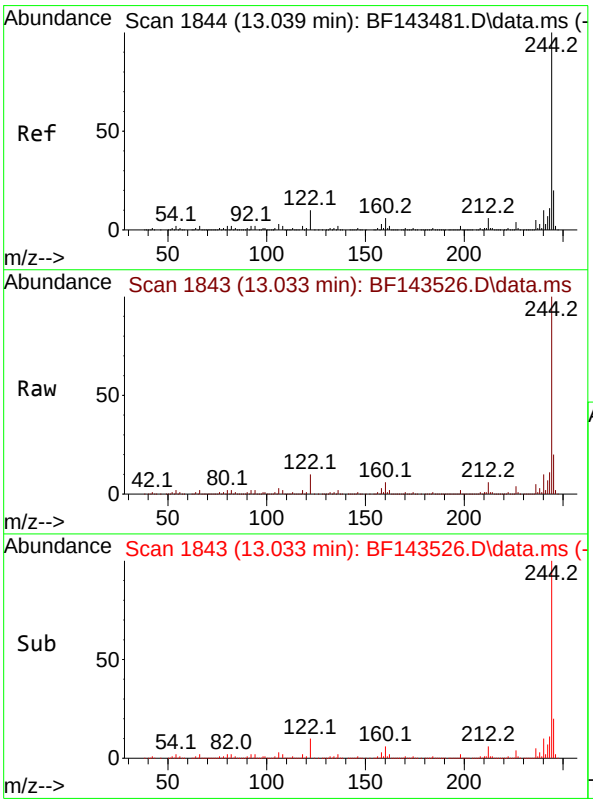
#78
Pyrene
Concen: 5.697 ng
RT: 12.892 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF143526.D
Acq: 21 Aug 2025 13:15

Instrument :
BNA_F
ClientSampleId :
11M-E

Tgt Ion:202 Resp: 105809

Ion	Ratio	Lower	Upper
202	100		
200	21.1	17.0	25.4
203	19.6	14.3	21.5

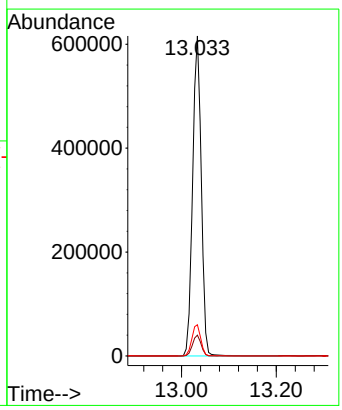


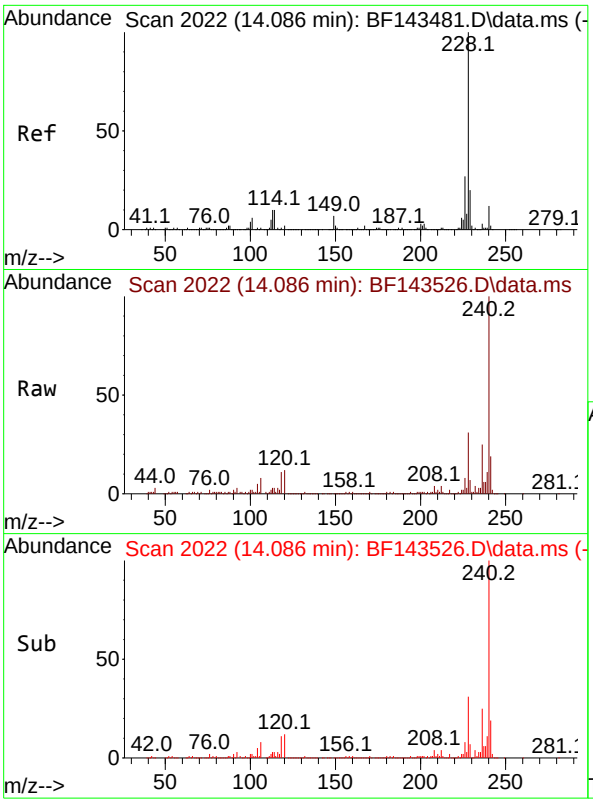


#79
Terphenyl-d14
Concen: 60.241 ng
RT: 13.033 min Scan# 1843
Delta R.T. -0.006 min
Lab File: BF143526.D
Acq: 21 Aug 2025 13:15

Tgt Ion:244 Resp: 779515

Ion	Ratio	Lower	Upper
244	100		
212	6.5	5.2	7.8
122	9.8	7.9	11.9



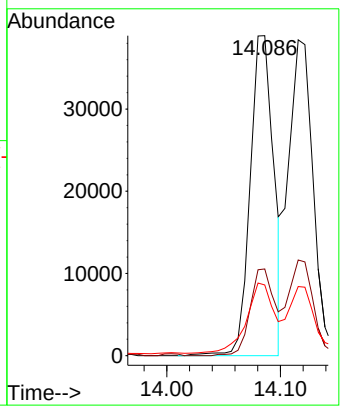


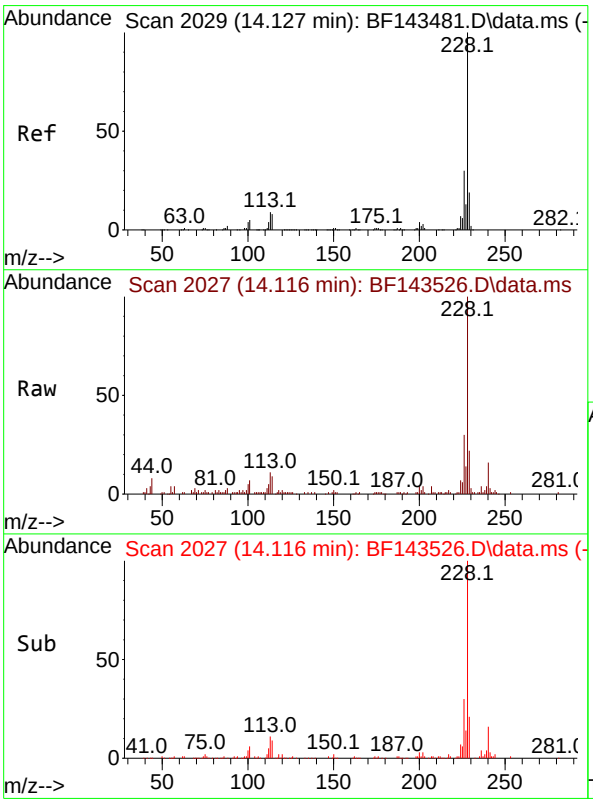
#81
Benzo(a)anthracene
Concen: 3.856 ng
RT: 14.086 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF143526.D
Acq: 21 Aug 2025 13:15

Instrument :
BNA_F
ClientSampleId :
11M-E

Tgt Ion:228 Resp: 56053

Ion	Ratio	Lower	Upper
228	100		
226	27.1	21.7	32.5
229	22.1	15.7	23.5

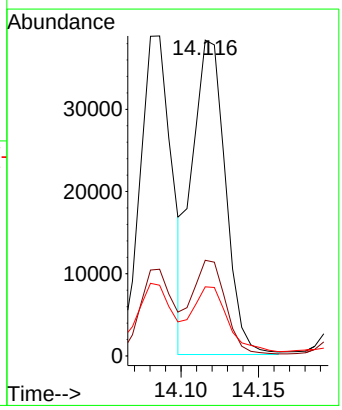


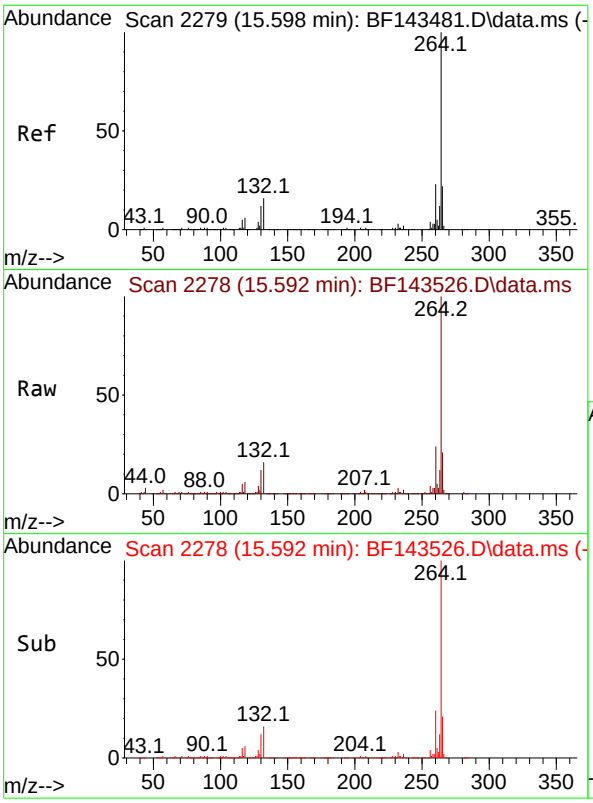


#83
Chrysene
Concen: 4.378 ng
RT: 14.116 min Scan# 2027
Delta R.T. -0.012 min
Lab File: BF143526.D
Acq: 21 Aug 2025 13:15

Tgt Ion:228 Resp: 57195

Ion	Ratio	Lower	Upper
228	100		
226	30.3	23.7	35.5
229	21.9	15.7	23.5



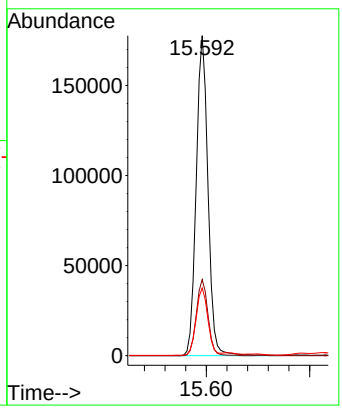


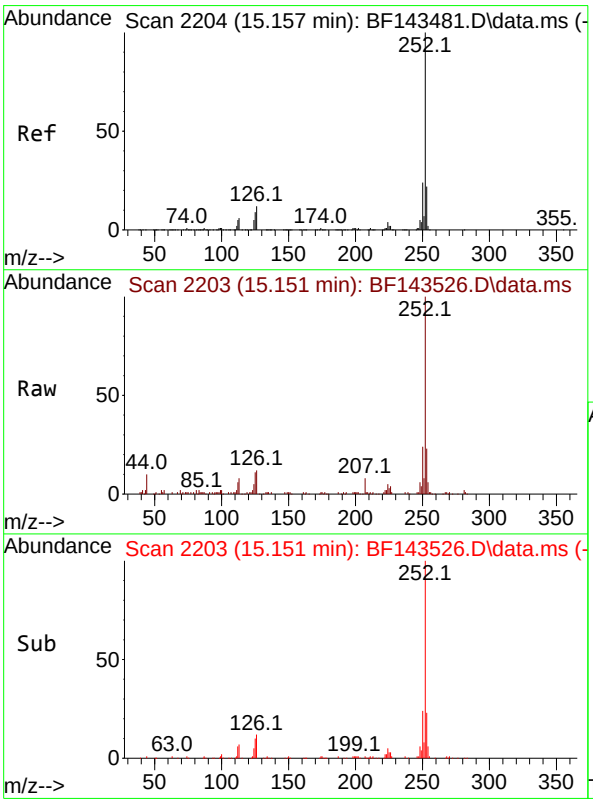
#86
Perylene-d12
Concen: 20.000 ng
RT: 15.592 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF143526.D
Acq: 21 Aug 2025 13:15

Instrument :
BNA_F
ClientSampleId :
11M-E

Tgt Ion:264 Resp: 280214

Ion	Ratio	Lower	Upper
264	100		
260	23.8	18.7	28.1
265	21.2	17.6	26.4

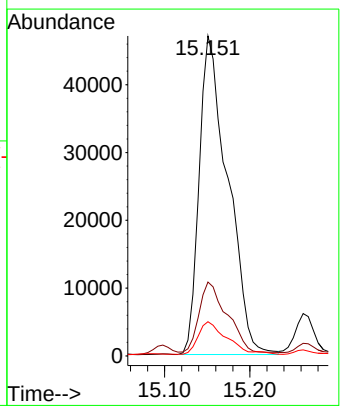


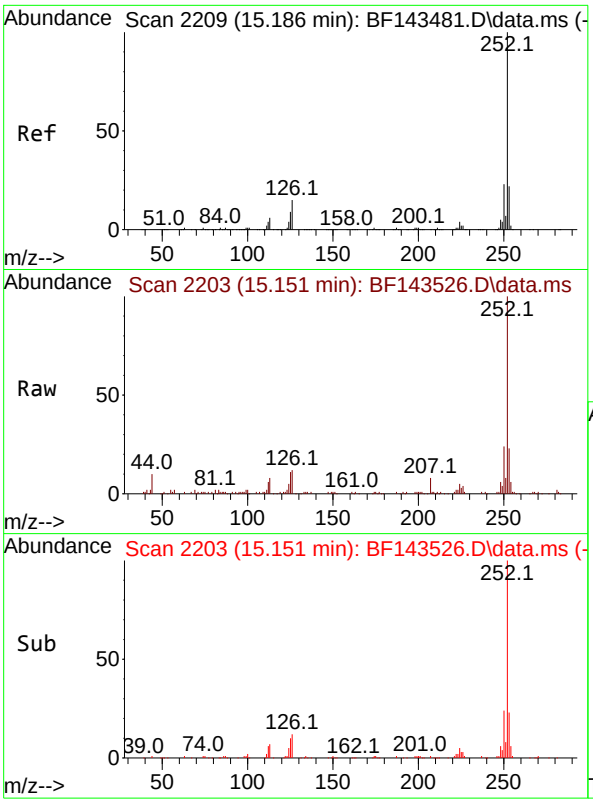


#88
Benzo(b)fluoranthene
Concen: 7.038 ng
RT: 15.151 min Scan# 2203
Delta R.T. -0.006 min
Lab File: BF143526.D
Acq: 21 Aug 2025 13:15

Tgt Ion:252 Resp: 109628

Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.5	26.3
125	10.7	7.4	11.0



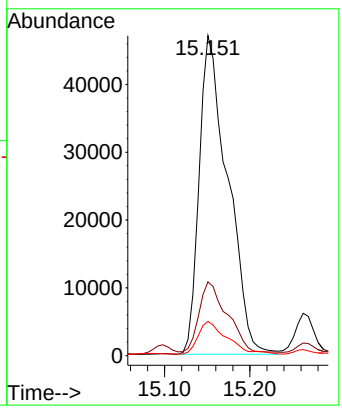


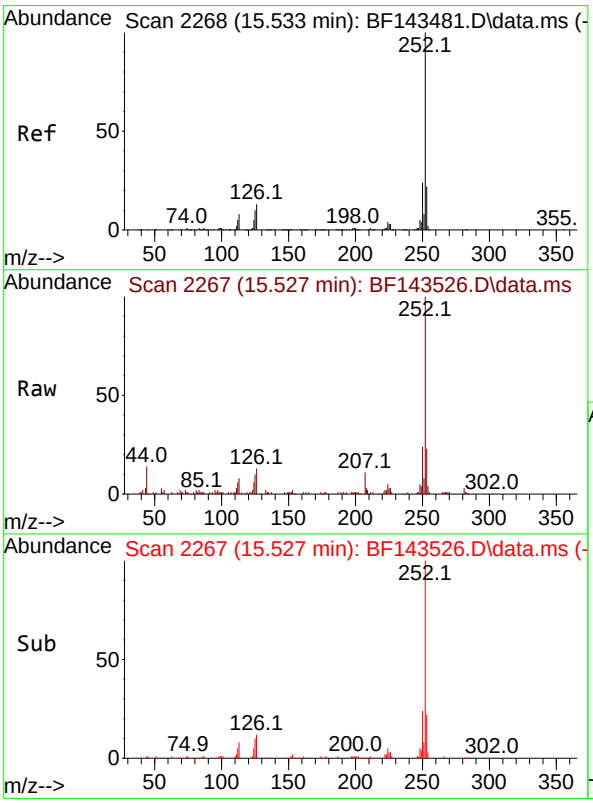
#89
Benzo(k)fluoranthene
Concen: 7.351 ng
RT: 15.151 min Scan# 2
Delta R.T. -0.041 min
Lab File: BF143526.D
Acq: 21 Aug 2025 13:15

Instrument :
BNA_F
ClientSampleId :
11M-E

Tgt Ion:252 Resp: 109628

Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.4	26.2
125	10.7	7.4	11.0

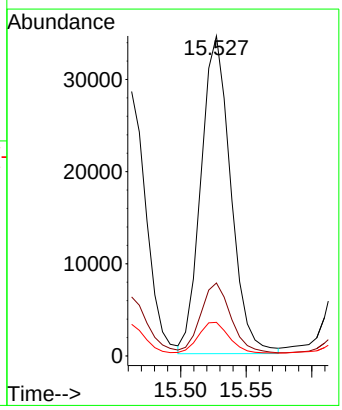


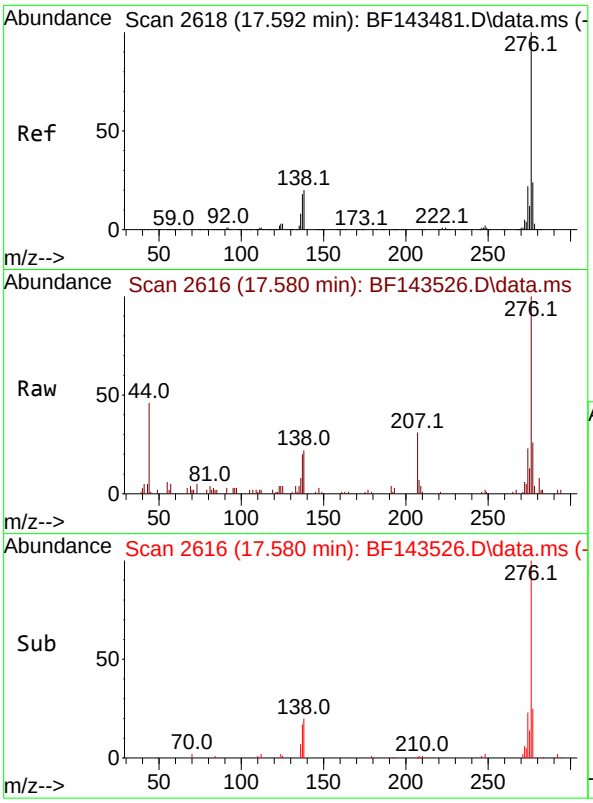


#90
Benzo(a)pyrene
Concen: 3.763 ng
RT: 15.527 min Scan# 2267
Delta R.T. -0.012 min
Lab File: BF143526.D
Acq: 21 Aug 2025 13:15

Tgt Ion:252 Resp: 54410

Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.4	26.0
125	10.5	8.2	12.2



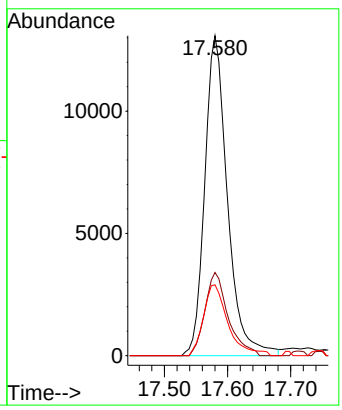


#92
Benzo(g,h,i)perylene
Concen: 2.038 ng
RT: 17.580 min Scan# 2
Delta R.T. -0.023 min
Lab File: BF143526.D
Acq: 21 Aug 2025 13:15

Instrument :
BNA_F
ClientSampleId :
11M-E

Tgt Ion:276 Resp: 32686

Ion	Ratio	Lower	Upper
276	100		
277	26.0	18.9	28.3
138	22.1	16.3	24.5



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
Data File : BF143530.D
Acq On : 21 Aug 2025 15:11
Operator : RC/JU
Sample : Q2819-10RE
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
84SB-SRE

Quant Time: Aug 21 15:50:19 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 21 06:12:21 2025
Response via : Initial Calibration

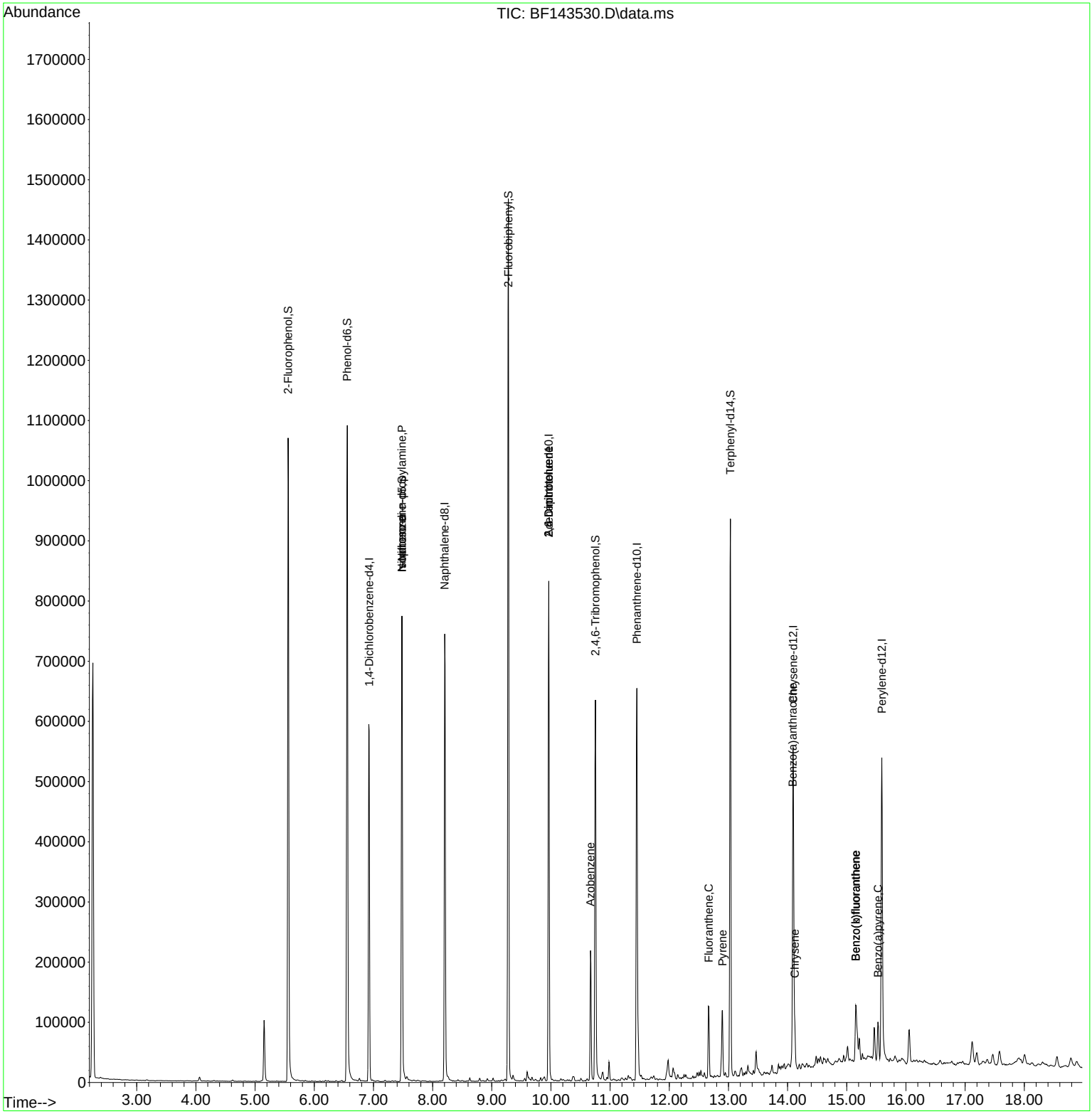
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.928	152	128328	20.000	ng	0.00
21) Naphthalene-d8	8.204	136	480515	20.000	ng	0.00
39) Acenaphthene-d10	9.963	164	247608	20.000	ng	0.00
64) Phenanthrene-d10	11.451	188	332938	20.000	ng	0.00
76) Chrysene-d12	14.092	240	239904	20.000	ng	-0.01
86) Perylene-d12	15.592	264	296752	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.557	112	407971	55.513	ng	0.00
7) Phenol-d6	6.557	99	501868	55.320	ng	-0.02
23) Nitrobenzene-d5	7.481	82	336782	40.900	ng	-0.02
42) 2,4,6-Tribromophenol	10.751	330	109467	47.494	ng	-0.01
45) 2-Fluorobiphenyl	9.281	172	637584	42.556	ng	0.00
79) Terphenyl-d14	13.033	244	454012	33.024	ng	0.00
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	7.481	70	44763	8.073	ng	# 79
25) Isophorone	7.481	82	321579	21.305	ng	# 65
51) 2,6-Dinitrotoluene	9.963	165	31578	10.217	ng	# 26
57) 2,4-Dinitrotoluene	9.963	165	31578	7.652	ng	# 26
63) Azobenzene	10.669	77	54866	3.958	ng	# 1
75) Fluoranthene	12.669	202	69507	4.345	ng	99
78) Pyrene	12.898	202	64191	3.253	ng	99
81) Benzo(a)anthracene	14.086	228	34552	2.237	ng	96
83) Chrysene	14.122	228	39660	2.857	ng	96
88) Benzo(b)fluoranthene	15.151	252	82519	5.003	ng	99
89) Benzo(k)fluoranthene	15.151	252	82519	5.225	ng	99
90) Benzo(a)pyrene	15.527	252	38651	2.524	ng	96

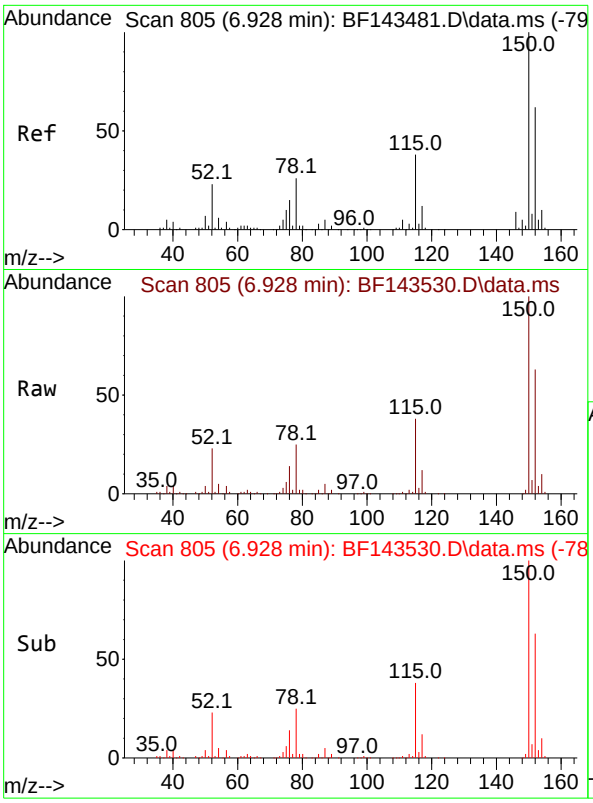
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
Data File : BF143530.D
Acq On : 21 Aug 2025 15:11
Operator : RC/JU
Sample : Q2819-10RE
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
84SB-SRE

Quant Time: Aug 21 15:50:19 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 21 06:12:21 2025
Response via : Initial Calibration



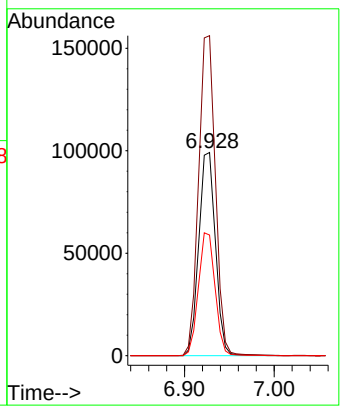


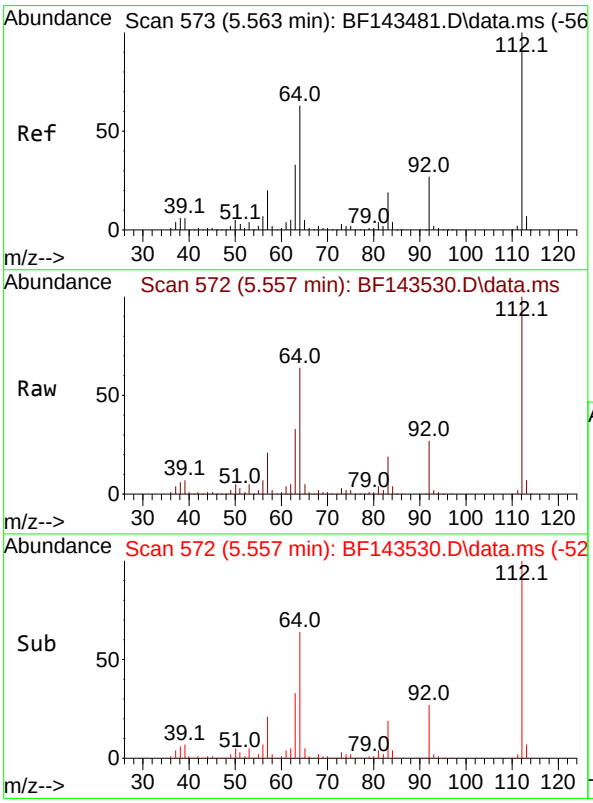
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.928 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF143530.D
Acq: 21 Aug 2025 15:11

Instrument :
BNA_F
ClientSampleId :
84SB-SRE

Tgt Ion:152 Resp: 128328

Ion	Ratio	Lower	Upper
152	100		
150	157.5	128.9	193.3
115	59.4	49.2	73.8

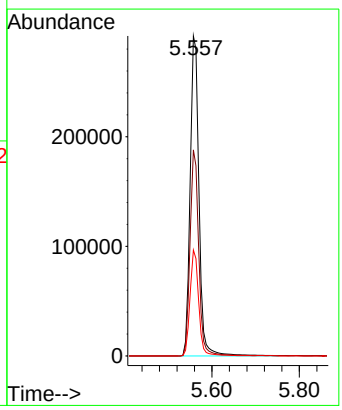


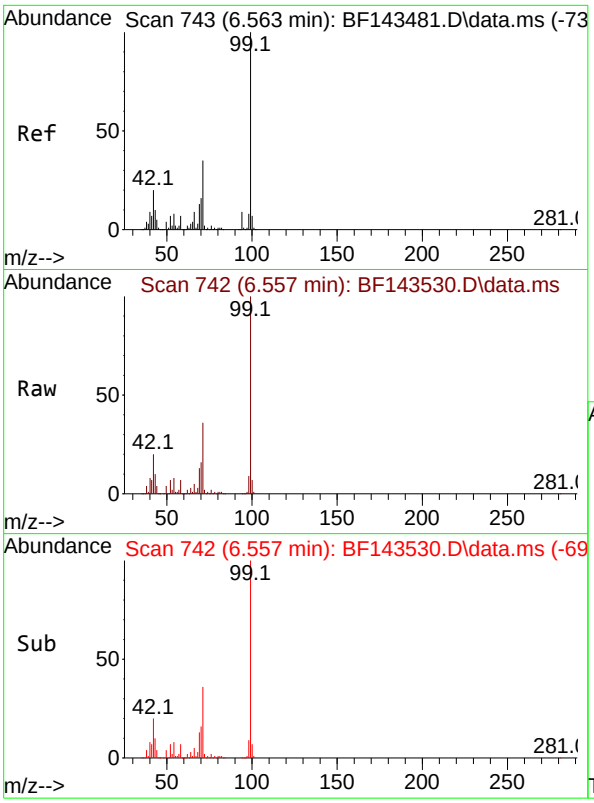


#5
2-Fluorophenol
Concen: 55.513 ng
RT: 5.557 min Scan# 572
Delta R.T. -0.006 min
Lab File: BF143530.D
Acq: 21 Aug 2025 15:11

Tgt Ion:112 Resp: 407971

Ion	Ratio	Lower	Upper
112	100		
64	64.4	50.4	75.6
63	33.1	26.4	39.6



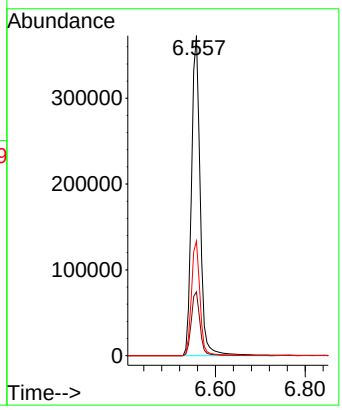


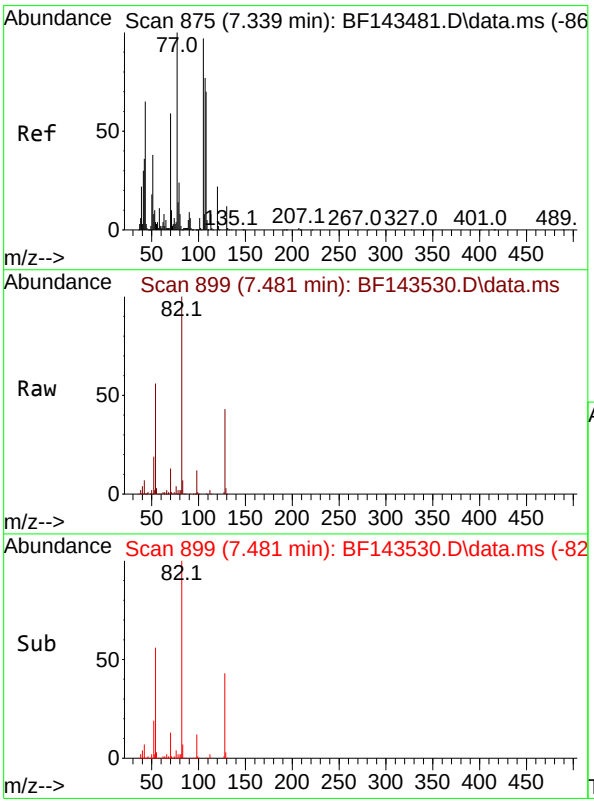
#7
Phenol-d6
Concen: 55.320 ng
RT: 6.557 min Scan# 7
Delta R.T. -0.018 min
Lab File: BF143530.D
Acq: 21 Aug 2025 15:11

Instrument :
BNA_F
ClientSampleId :
84SB-SRE

Tgt Ion: 99 Resp: 501868

Ion	Ratio	Lower	Upper
99	100		
42	19.9	16.3	24.5
71	35.8	28.2	42.2

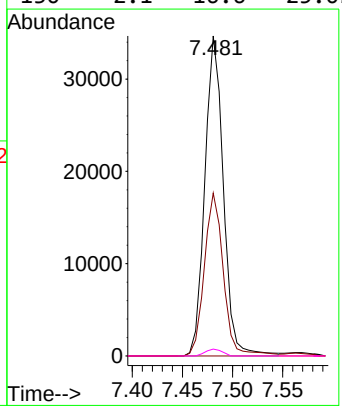


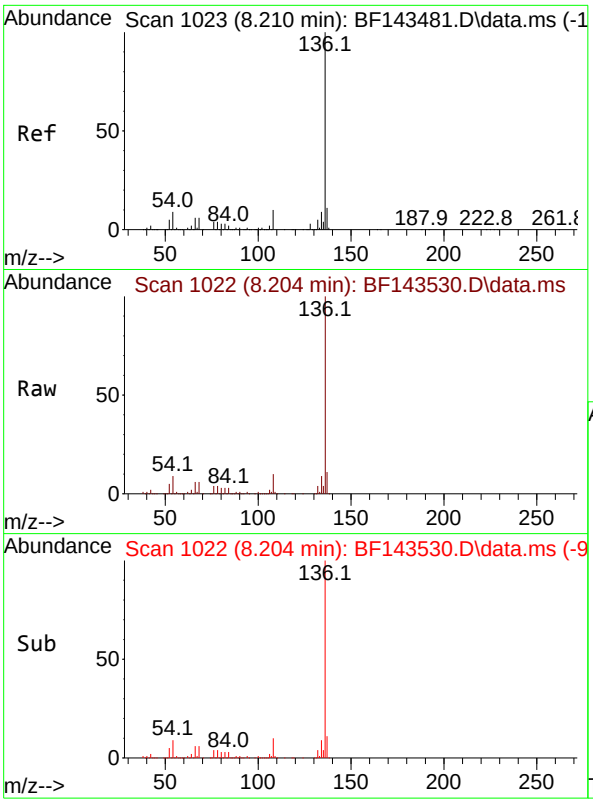


#19
n-Nitroso-di-n-propylamine
Concen: 8.073 ng
RT: 7.481 min Scan# 899
Delta R.T. 0.129 min
Lab File: BF143530.D
Acq: 21 Aug 2025 15:11

Tgt Ion: 70 Resp: 44763

Ion	Ratio	Lower	Upper
70	100		
42	50.9	49.3	73.9
101	0.0	7.8	11.8#
130	2.1	16.6	25.0#



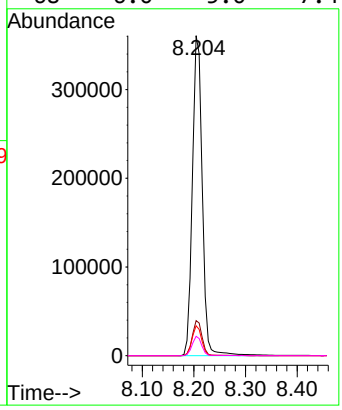


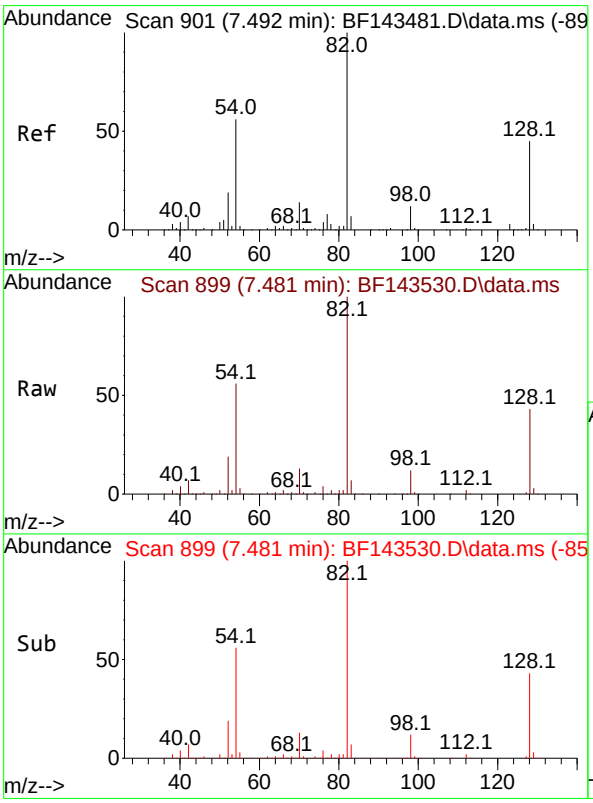
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.204 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143530.D
Acq: 21 Aug 2025 15:11

Instrument :
BNA_F
ClientSampleId :
84SB-SRE

Tgt Ion:136 Resp: 480515

Ion	Ratio	Lower	Upper
136	100		
137	11.0	9.0	13.4
54	9.3	7.4	11.2
68	6.0	5.0	7.4

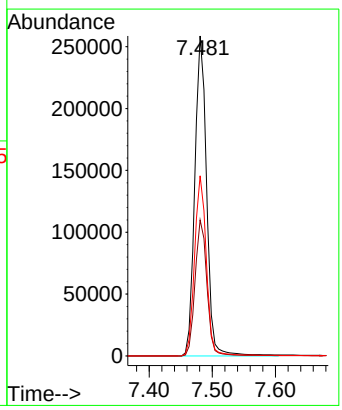


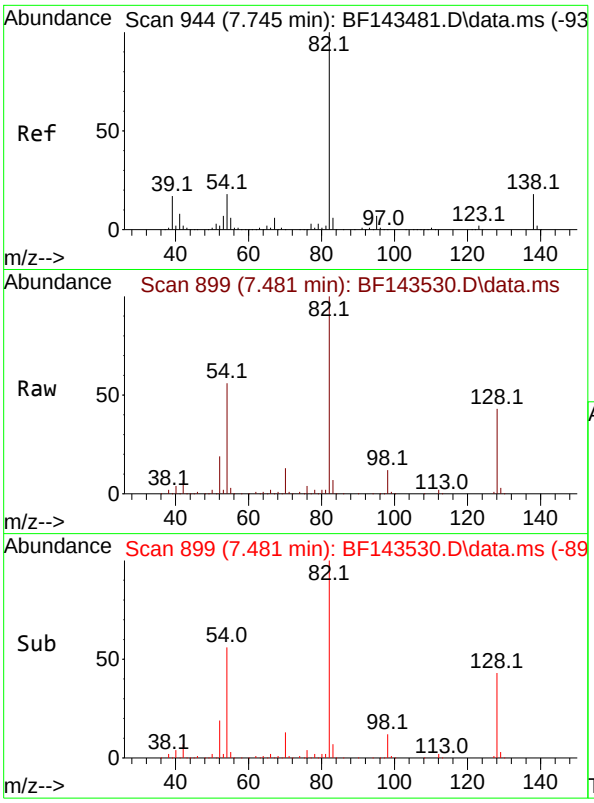


#23
Nitrobenzene-d5
Concen: 40.900 ng
RT: 7.481 min Scan# 899
Delta R.T. -0.018 min
Lab File: BF143530.D
Acq: 21 Aug 2025 15:11

Tgt Ion: 82 Resp: 336782

Ion	Ratio	Lower	Upper
82	100		
128	42.5	35.5	53.3
54	56.3	44.3	66.5



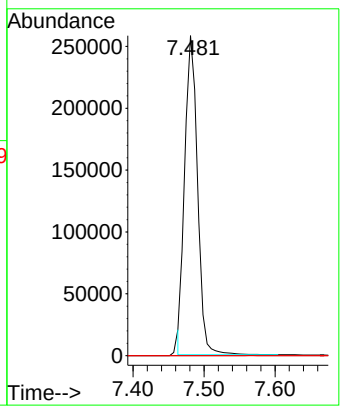


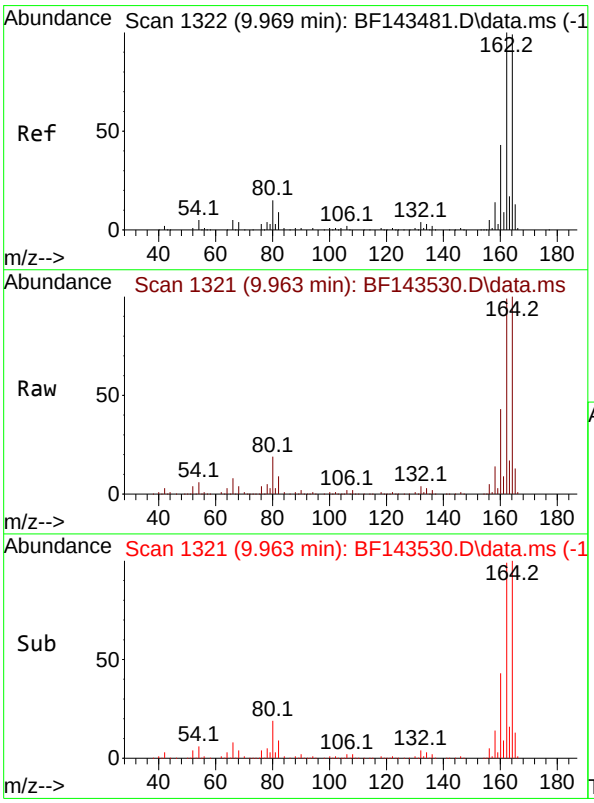
#25
Isophorone
Concen: 21.305 ng
RT: 7.481 min Scan# 8
Delta R.T. -0.276 min
Lab File: BF143530.D
Acq: 21 Aug 2025 15:11

Instrument :
BNA_F
ClientSampleId :
84SB-SRE

Tgt Ion: 82 Resp: 321579

Ion	Ratio	Lower	Upper
82	100		
95	0.0	5.8	8.8#
138	0.0	14.2	21.4#

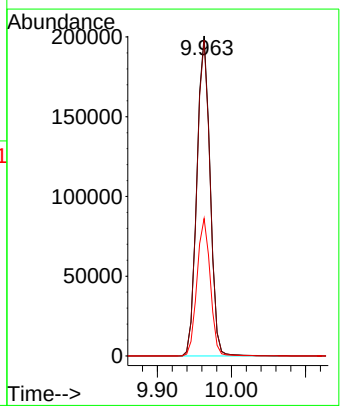


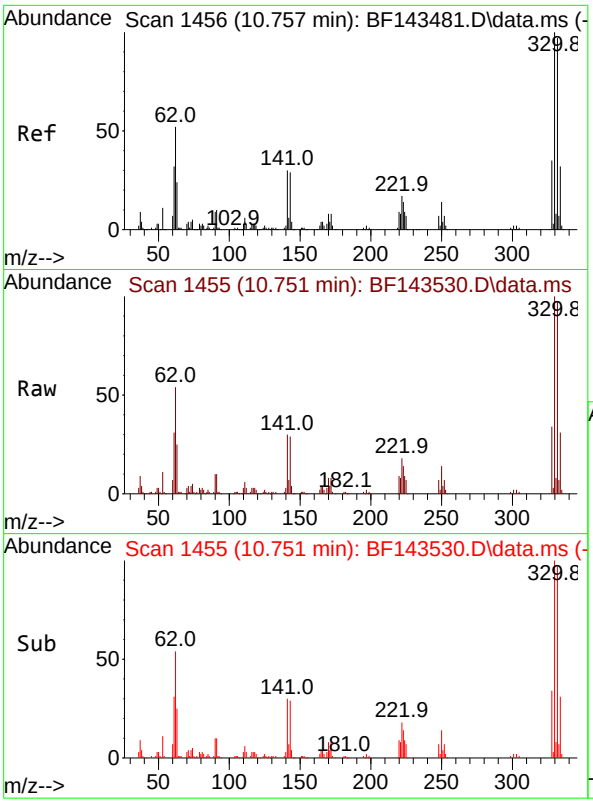


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.963 min Scan# 1321
Delta R.T. -0.006 min
Lab File: BF143530.D
Acq: 21 Aug 2025 15:11

Tgt Ion:164 Resp: 247608

Ion	Ratio	Lower	Upper
164	100		
162	98.7	80.5	120.7
160	43.0	34.3	51.5



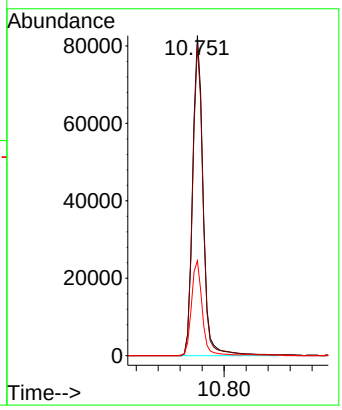


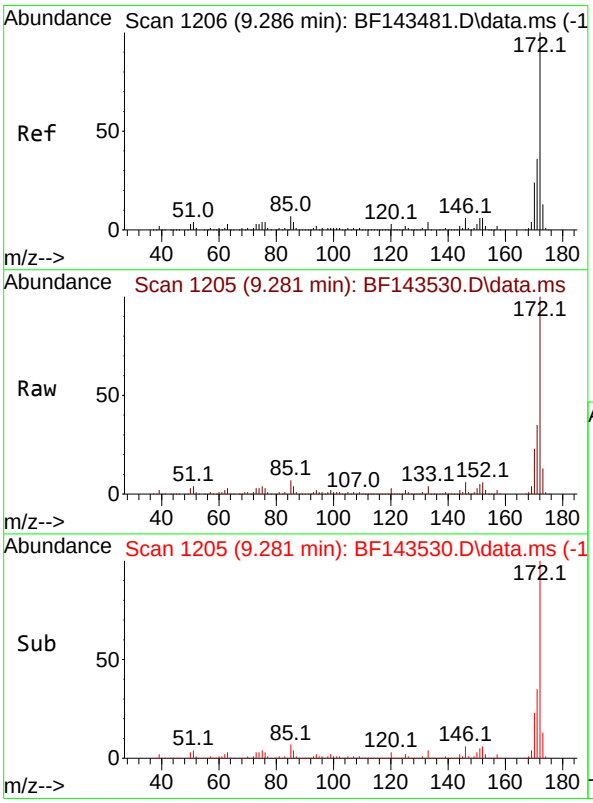
#42
2,4,6-Tribromophenol
Concen: 47.494 ng
RT: 10.751 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF143530.D
Acq: 21 Aug 2025 15:11

Instrument :
BNA_F
ClientSampleId :
84SB-SRE

Tgt Ion:330 Resp: 109467

Ion	Ratio	Lower	Upper
330	100		
332	96.5	78.0	117.0
141	30.2	23.7	35.5

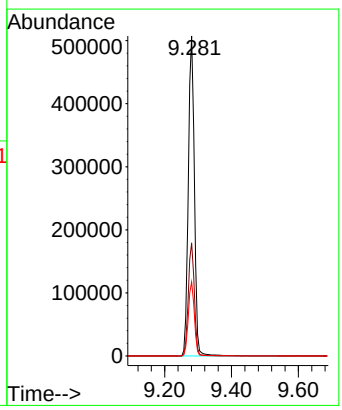


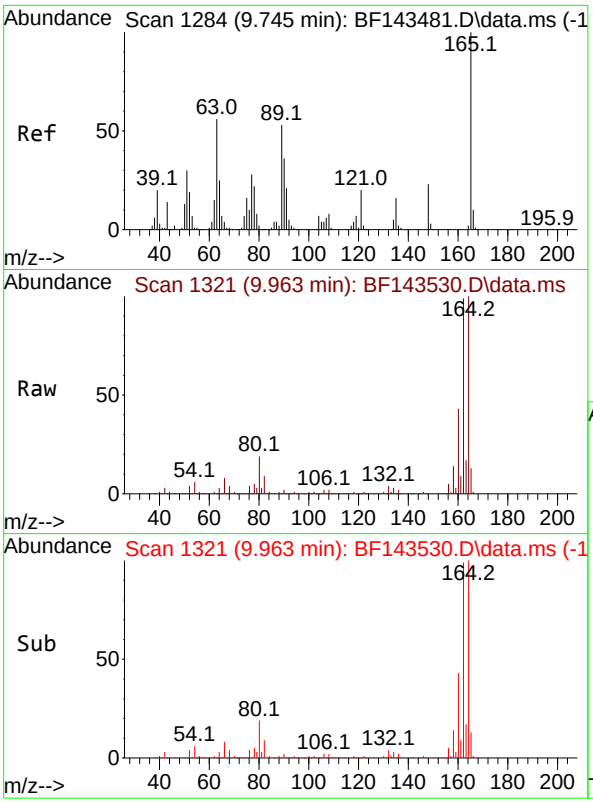


#45
2-Fluorobiphenyl
Concen: 42.556 ng
RT: 9.281 min Scan# 1205
Delta R.T. -0.006 min
Lab File: BF143530.D
Acq: 21 Aug 2025 15:11

Tgt Ion:172 Resp: 637584

Ion	Ratio	Lower	Upper
172	100		
171	35.4	28.8	43.2
170	23.1	18.8	28.2



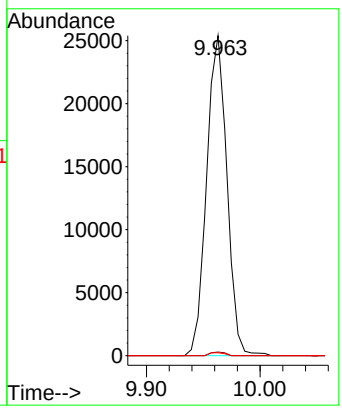


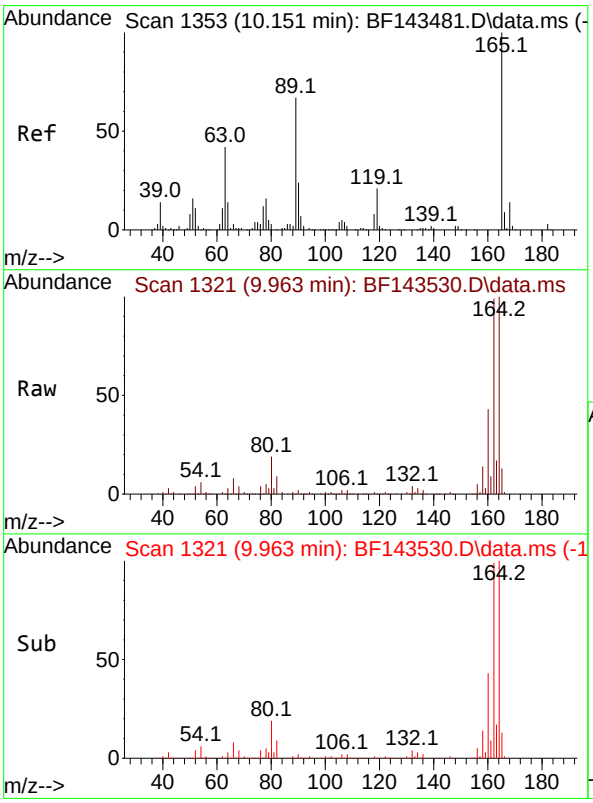
#51
2,6-Dinitrotoluene
Concen: 10.217 ng
RT: 9.963 min Scan# 1
Delta R.T. 0.212 min
Lab File: BF143530.D
Acq: 21 Aug 2025 15:11

Instrument :
BNA_F
ClientSampleId :
84SB-SRE

Tgt Ion:165 Resp: 31578

Ion	Ratio	Lower	Upper
165	100		
63	1.1	45.0	67.6#
89	0.9	42.5	63.7#

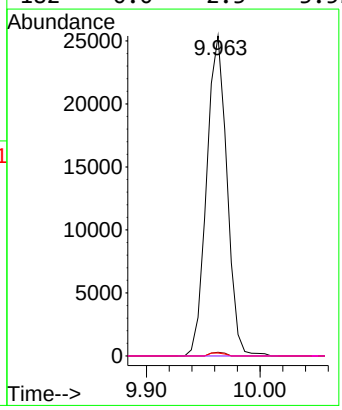


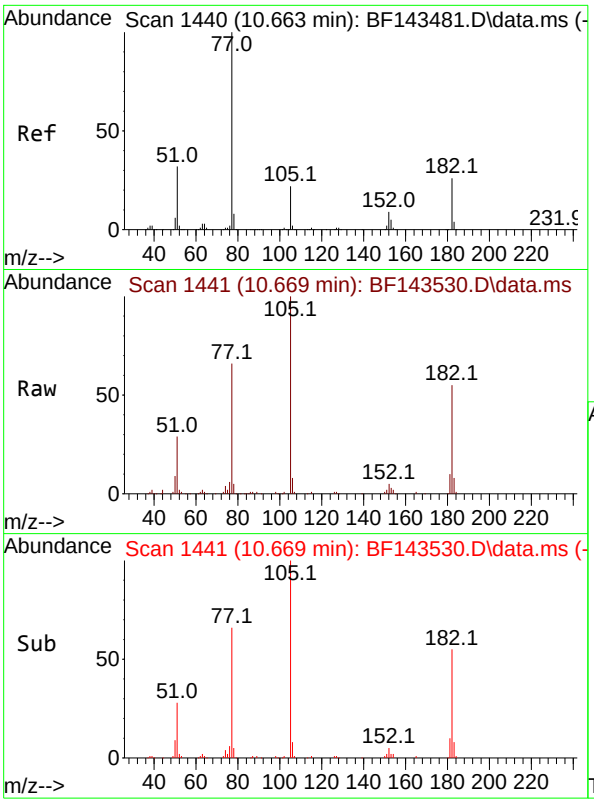


#57
2,4-Dinitrotoluene
Concen: 7.652 ng
RT: 9.963 min Scan# 1321
Delta R.T. -0.194 min
Lab File: BF143530.D
Acq: 21 Aug 2025 15:11

Tgt Ion:165 Resp: 31578

Ion	Ratio	Lower	Upper
165	100		
63	1.1	34.9	52.3#
89	0.9	53.3	79.9#
182	0.0	2.3	3.5#



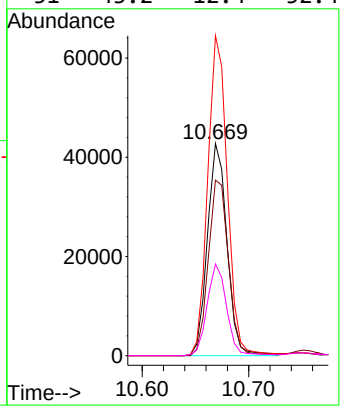


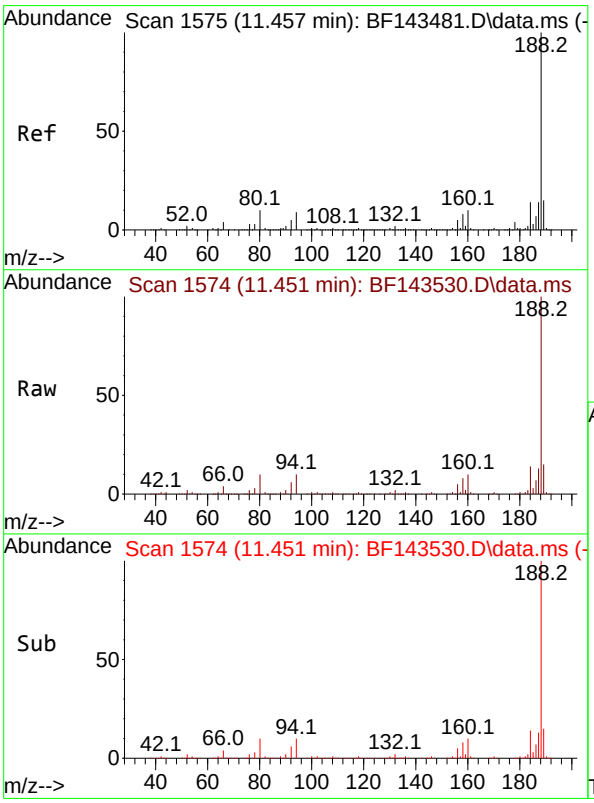
#63
Azobenzene
Concen: 3.958 ng
RT: 10.669 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF143530.D
Acq: 21 Aug 2025 15:11

Instrument :
BNA_F
ClientSampleId :
84SB-SRE

Tgt Ion: 77 Resp: 54866

Ion	Ratio	Lower	Upper
77	100		
182	82.7	6.2	46.2#
105	150.8	2.2	42.2#
51	43.2	12.4	52.4

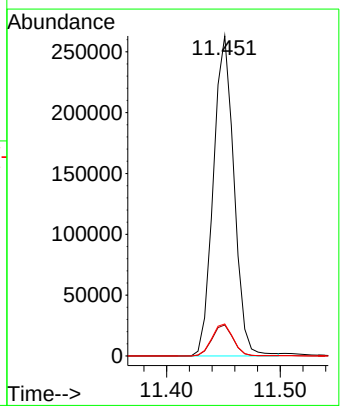


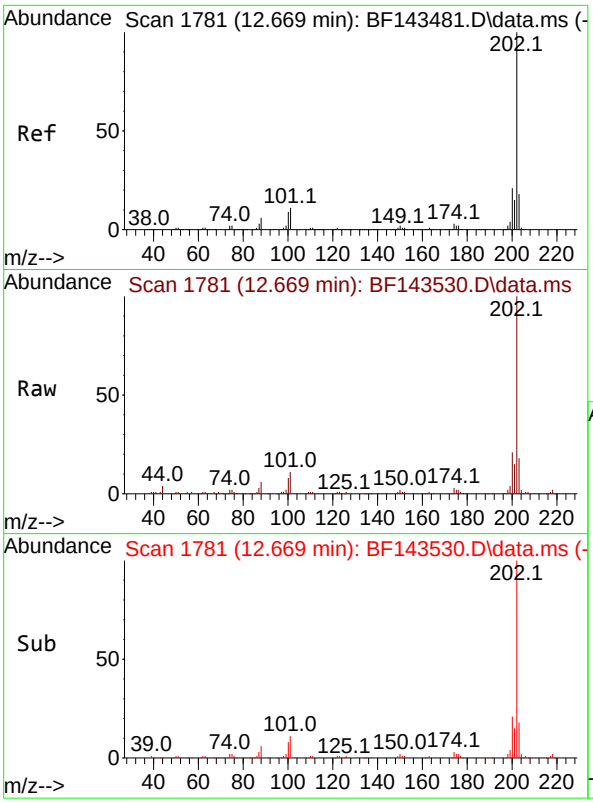


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.451 min Scan# 1574
Delta R.T. -0.006 min
Lab File: BF143530.D
Acq: 21 Aug 2025 15:11

Tgt Ion:188 Resp: 332938

Ion	Ratio	Lower	Upper
188	100		
94	9.7	7.4	11.2
80	10.0	8.2	12.4



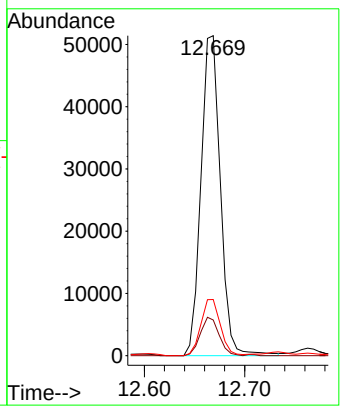


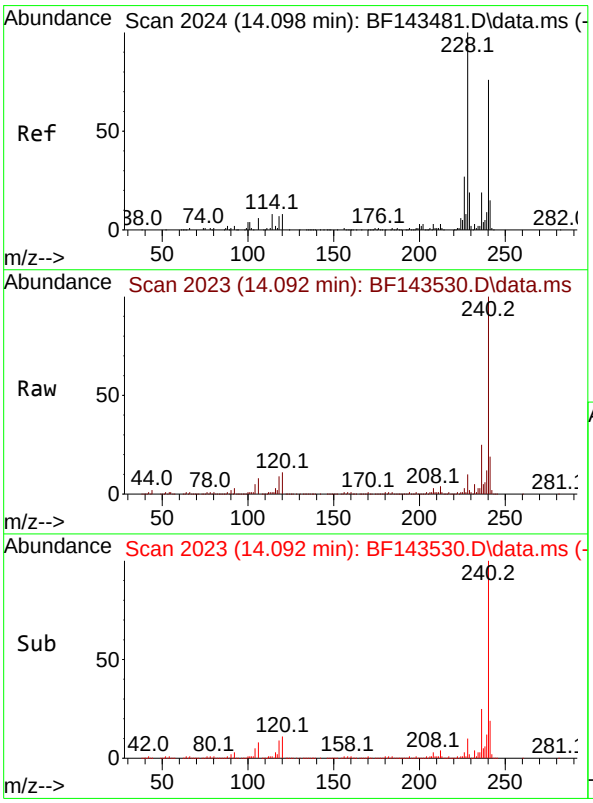
#75
Fluoranthene
Concen: 4.345 ng
RT: 12.669 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143530.D
Acq: 21 Aug 2025 15:11

Instrument :
BNA_F
ClientSampleId :
84SB-SRE

Tgt Ion:202 Resp: 69507

Ion	Ratio	Lower	Upper
202	100		
101	11.1	0.0	31.3
203	17.6	0.0	37.9

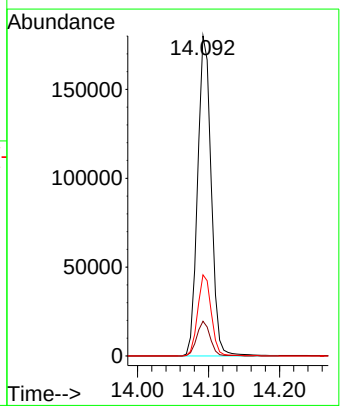


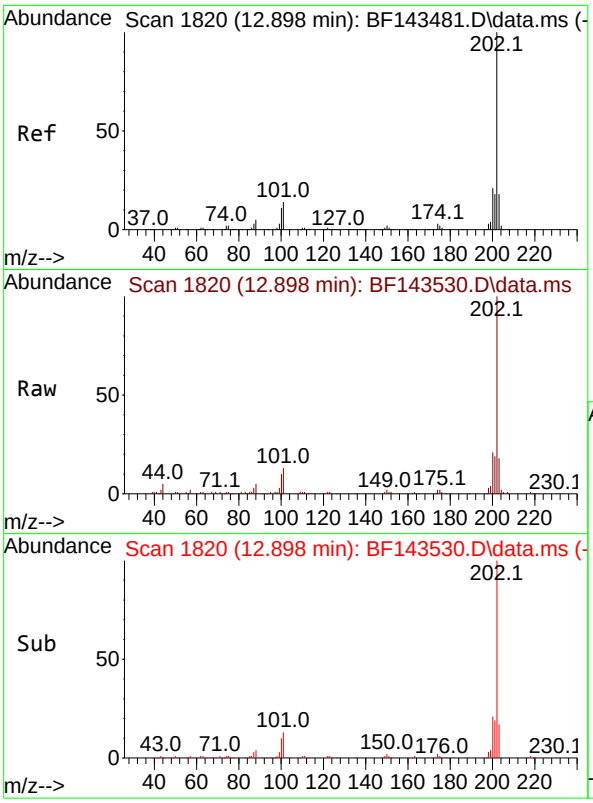


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.092 min Scan# 2023
Delta R.T. -0.012 min
Lab File: BF143530.D
Acq: 21 Aug 2025 15:11

Tgt Ion:240 Resp: 239904

Ion	Ratio	Lower	Upper
240	100		
120	10.9	8.6	12.8
236	25.4	20.4	30.6



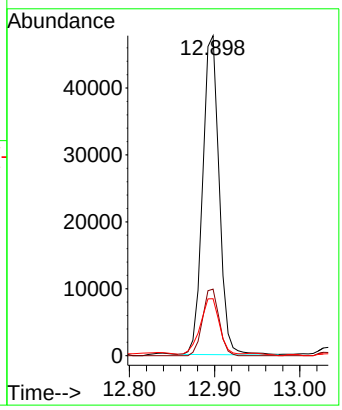


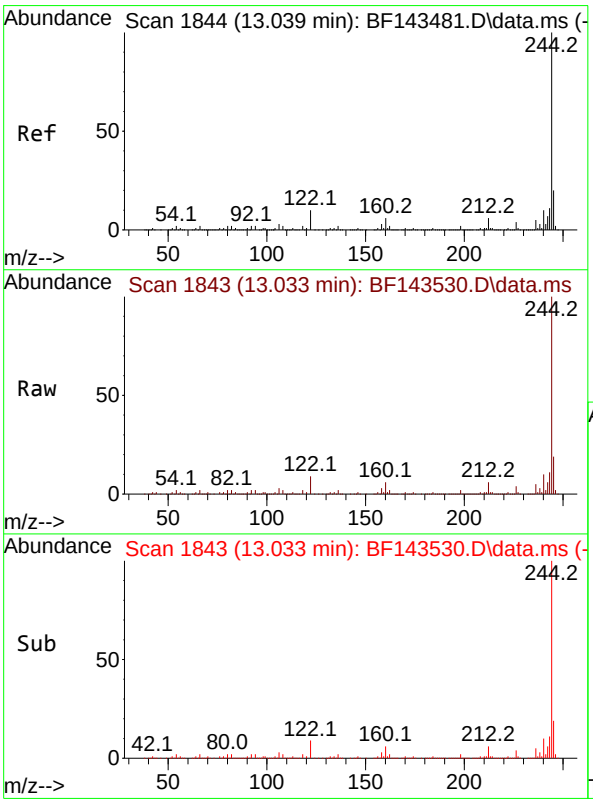
#78
Pyrene
Concen: 3.253 ng
RT: 12.898 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143530.D
Acq: 21 Aug 2025 15:11

Instrument :
BNA_F
ClientSampleId :
84SB-SRE

Tgt Ion:202 Resp: 64191

Ion	Ratio	Lower	Upper
202	100		
200	20.8	17.0	25.4
203	17.8	14.3	21.5

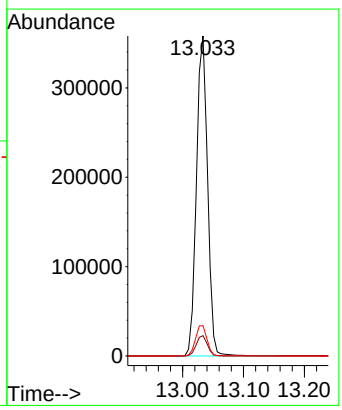


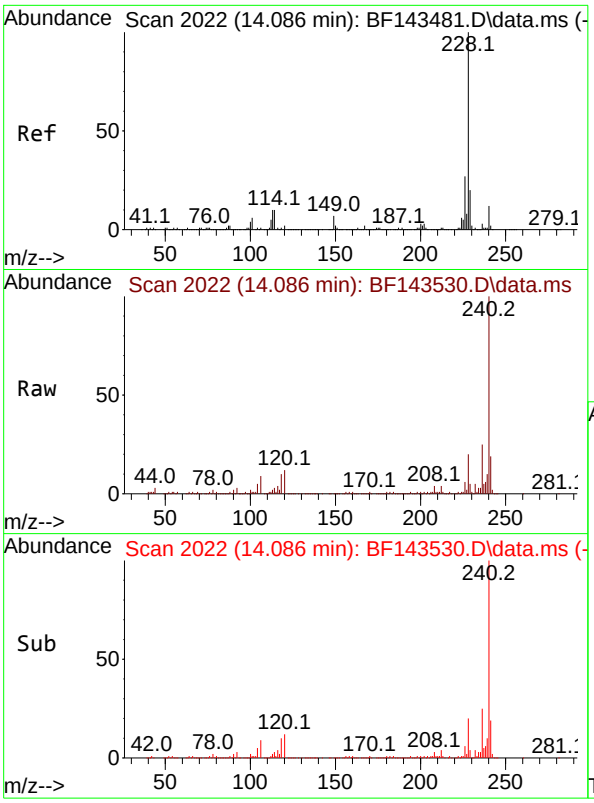


#79
Terphenyl-d14
Concen: 33.024 ng
RT: 13.033 min Scan# 1843
Delta R.T. -0.006 min
Lab File: BF143530.D
Acq: 21 Aug 2025 15:11

Tgt Ion:244 Resp: 454012

Ion	Ratio	Lower	Upper
244	100		
212	6.3	5.2	7.8
122	9.5	7.9	11.9



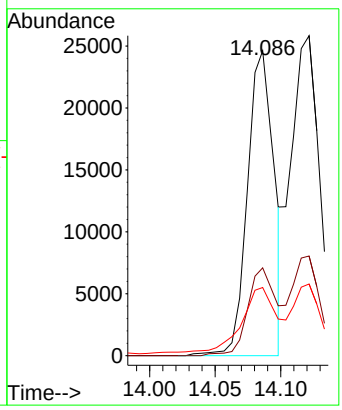


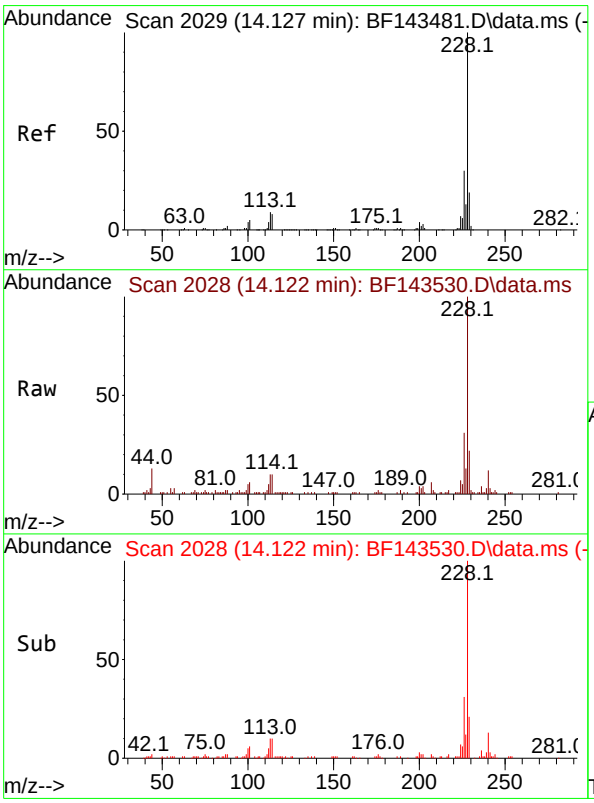
#81
Benzo(a)anthracene
Concen: 2.237 ng
RT: 14.086 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF143530.D
Acq: 21 Aug 2025 15:11

Instrument :
BNA_F
ClientSampleId :
84SB-SRE

Tgt Ion:228 Resp: 34552

Ion	Ratio	Lower	Upper
228	100		
226	28.8	21.7	32.5
229	22.3	15.7	23.5

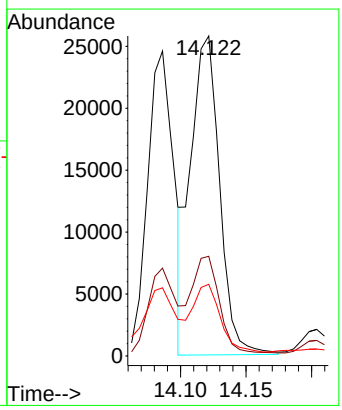


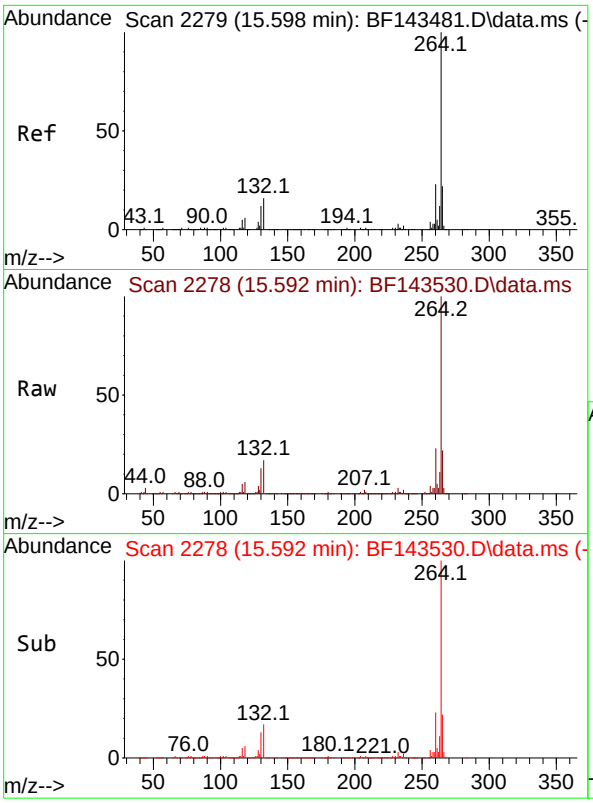


#83
Chrysene
Concen: 2.857 ng
RT: 14.122 min Scan# 2028
Delta R.T. -0.006 min
Lab File: BF143530.D
Acq: 21 Aug 2025 15:11

Tgt Ion:228 Resp: 39660

Ion	Ratio	Lower	Upper
228	100		
226	31.2	23.7	35.5
229	22.4	15.7	23.5



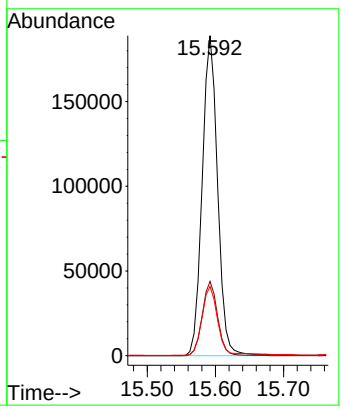


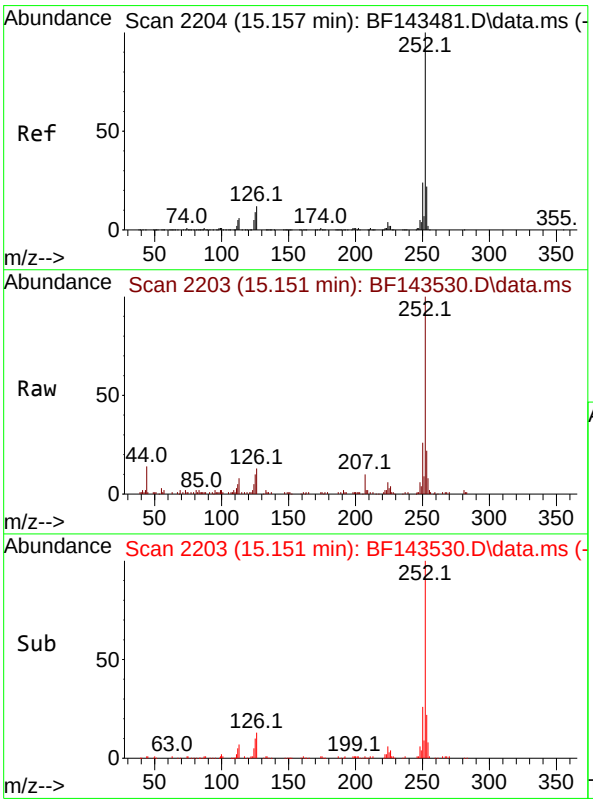
#86
Perylene-d12
Concen: 20.000 ng
RT: 15.592 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF143530.D
Acq: 21 Aug 2025 15:11

Instrument :
BNA_F
ClientSampleId :
84SB-SRE

Tgt Ion:264 Resp: 296752

Ion	Ratio	Lower	Upper
264	100		
260	23.2	18.7	28.1
265	21.6	17.6	26.4

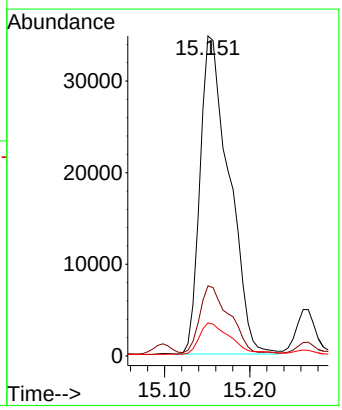


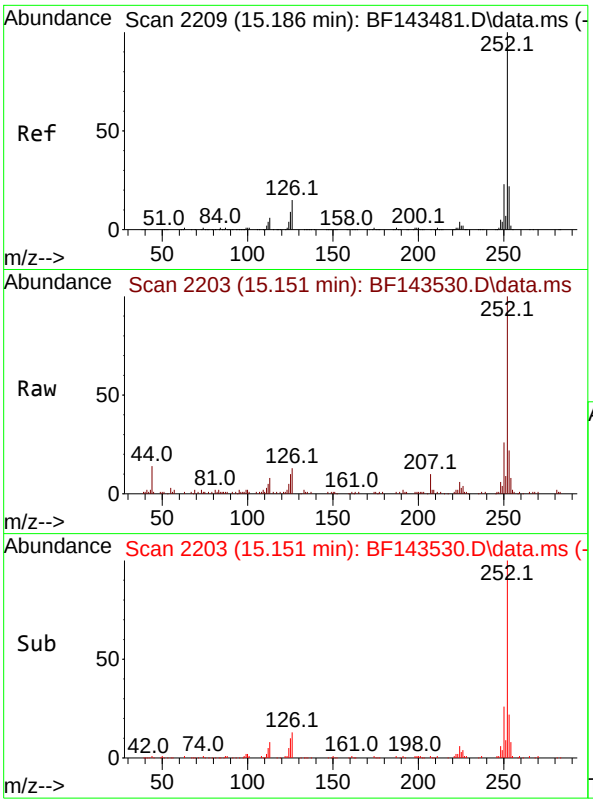


#88
Benzo(b)fluoranthene
Concen: 5.003 ng
RT: 15.151 min Scan# 2203
Delta R.T. -0.006 min
Lab File: BF143530.D
Acq: 21 Aug 2025 15:11

Tgt Ion:252 Resp: 82519

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.5	26.3
125	10.4	7.4	11.0



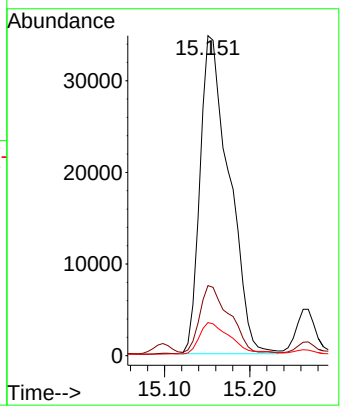


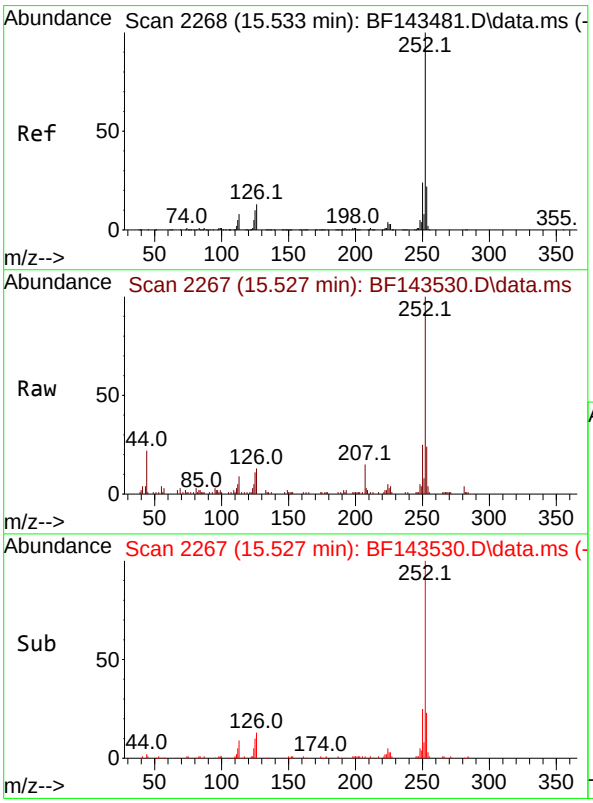
#89
Benzo(k)fluoranthene
Concen: 5.225 ng
RT: 15.151 min Scan# 2
Delta R.T. -0.041 min
Lab File: BF143530.D
Acq: 21 Aug 2025 15:11

Instrument :
BNA_F
ClientSampleId :
84SB-SRE

Tgt Ion:252 Resp: 82519

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.4	26.2
125	10.4	7.4	11.0

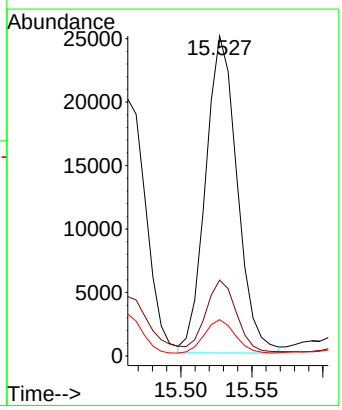




#90
Benzo(a)pyrene
Concen: 2.524 ng
RT: 15.527 min Scan# 2267
Delta R.T. -0.012 min
Lab File: BF143530.D
Acq: 21 Aug 2025 15:11

Tgt Ion:252 Resp: 38651

Ion	Ratio	Lower	Upper
252	100		
253	23.7	17.4	26.0
125	11.4	8.2	12.2



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
Data File : BF143531.D
Acq On : 21 Aug 2025 15:40
Operator : RC/JU
Sample : Q2819-11RE
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
84SB-W

Quant Time: Aug 21 16:21:31 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 21 06:12:21 2025
Response via : Initial Calibration

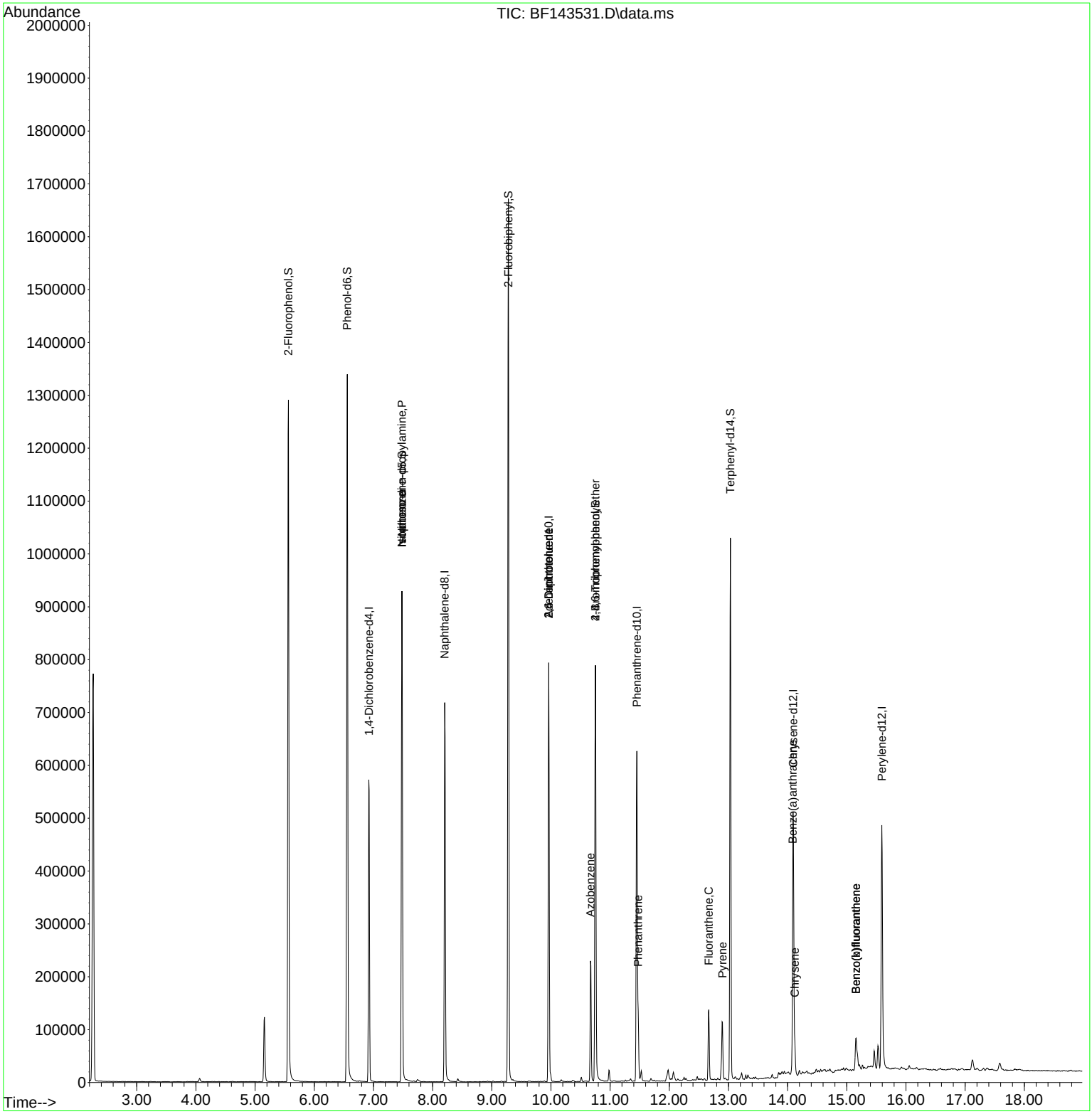
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.922	152	122249	20.000	ng	0.00
21) Naphthalene-d8	8.204	136	463361	20.000	ng	0.00
39) Acenaphthene-d10	9.963	164	234484	20.000	ng	0.00
64) Phenanthrene-d10	11.451	188	317712	20.000	ng	0.00
76) Chrysene-d12	14.092	240	229692	20.000	ng	-0.01
86) Perylene-d12	15.592	264	283075	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.563	112	483086	69.002	ng	0.00
7) Phenol-d6	6.557	99	604566	69.954	ng	-0.02
23) Nitrobenzene-d5	7.481	82	403850	50.860	ng	-0.02
42) 2,4,6-Tribromophenol	10.751	330	136637	62.600	ng	-0.01
45) 2-Fluorobiphenyl	9.281	172	726749	51.222	ng	0.00
79) Terphenyl-d14	13.033	244	491548	37.344	ng	0.00
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	7.481	70	54521	10.321	ng	# 80
25) Isophorone	7.481	82	387041	26.591	ng	# 65
51) 2,6-Dinitrotoluene	9.963	165	30598	10.454	ng	# 26
57) 2,4-Dinitrotoluene	9.963	165	30598	7.829	ng	# 26
63) Azobenzene	10.669	77	58631	4.466	ng	# 1
67) 4-Bromophenyl-phenylether	10.751	248	8704	2.296	ng	# 1
71) Phenanthrene	11.475	178	65872	3.872	ng	99
75) Fluoranthene	12.669	202	79522	5.209	ng	99
78) Pyrene	12.898	202	65892	3.487	ng	98
81) Benzo(a)anthracene	14.086	228	35019	2.368	ng	99
83) Chrysene	14.121	228	29650	2.231	ng	98
88) Benzo(b)fluoranthene	15.157	252	54047	3.435	ng	96
89) Benzo(k)fluoranthene	15.157	252	54047	3.587	ng	96

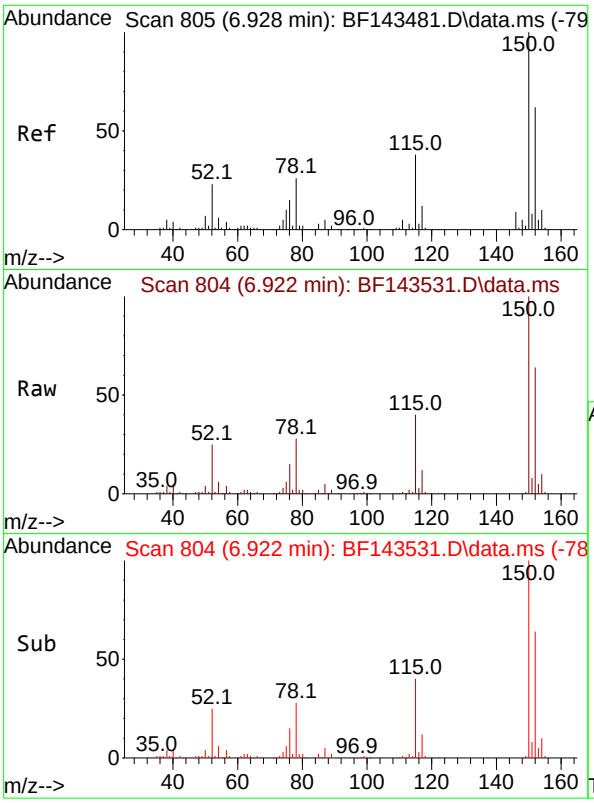
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
Data File : BF143531.D
Acq On : 21 Aug 2025 15:40
Operator : RC/JU
Sample : Q2819-11RE
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
84SB-W

Quant Time: Aug 21 16:21:31 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 21 06:12:21 2025
Response via : Initial Calibration



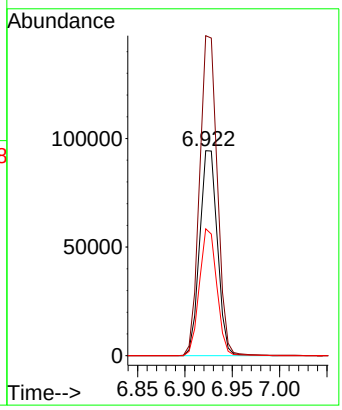


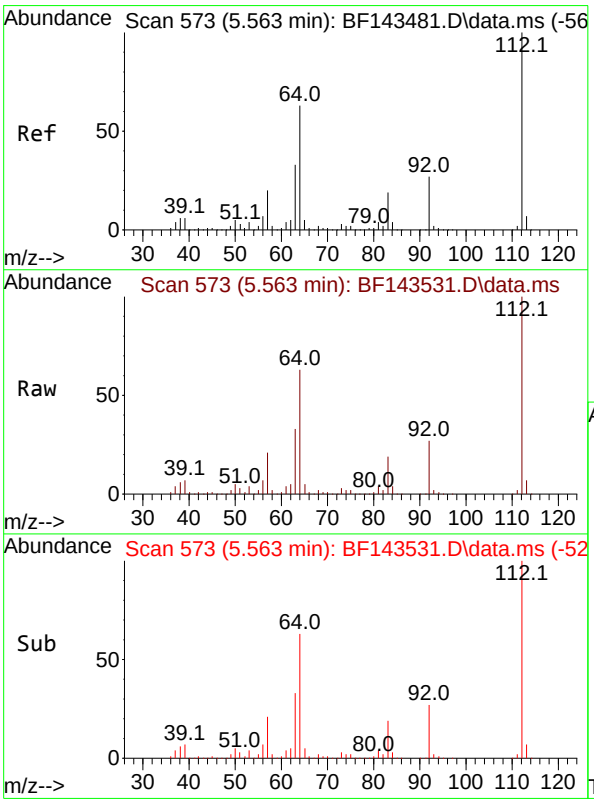
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.922 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF143531.D
Acq: 21 Aug 2025 15:40

Instrument :
BNA_F
ClientSampleId :
84SB-W

Tgt Ion:152 Resp: 122249

Ion	Ratio	Lower	Upper
152	100		
150	156.1	128.9	193.3
115	61.9	49.2	73.8

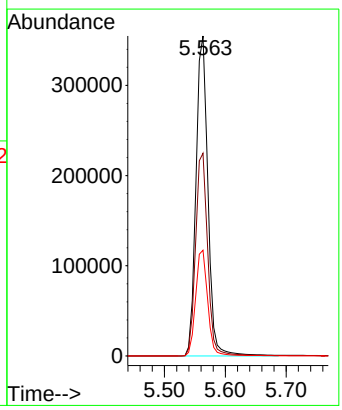


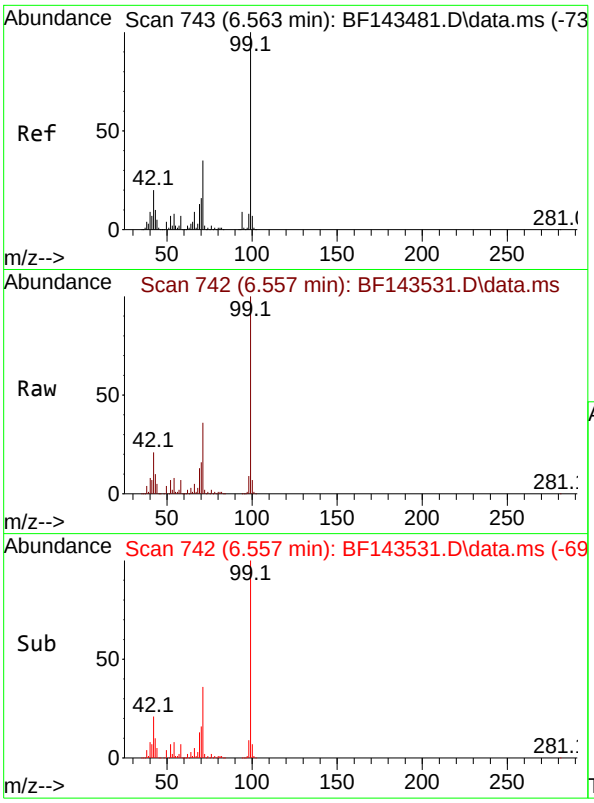


#5
2-Fluorophenol
Concen: 69.002 ng
RT: 5.563 min Scan# 573
Delta R.T. 0.000 min
Lab File: BF143531.D
Acq: 21 Aug 2025 15:40

Tgt Ion:112 Resp: 483086

Ion	Ratio	Lower	Upper
112	100		
64	63.3	50.4	75.6
63	33.1	26.4	39.6



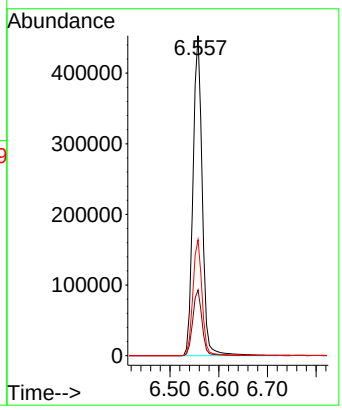


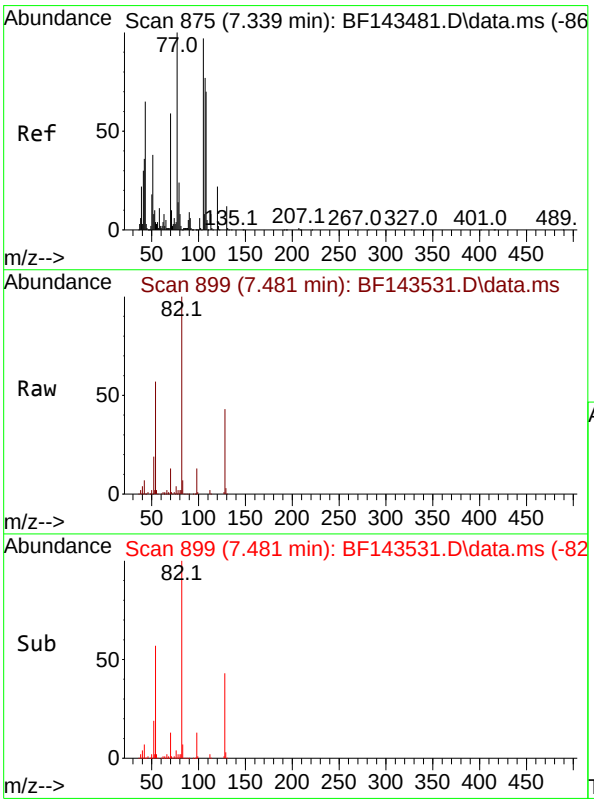
#7
Phenol-d6
Concen: 69.954 ng
RT: 6.557 min Scan# 7
Delta R.T. -0.018 min
Lab File: BF143531.D
Acq: 21 Aug 2025 15:40

Instrument :
BNA_F
ClientSampleId :
84SB-W

Tgt Ion: 99 Resp: 604566

Ion	Ratio	Lower	Upper
99	100		
42	20.5	16.3	24.5
71	36.3	28.2	42.2

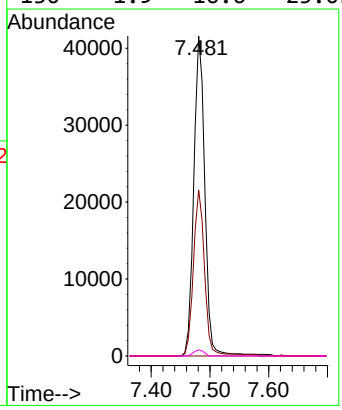


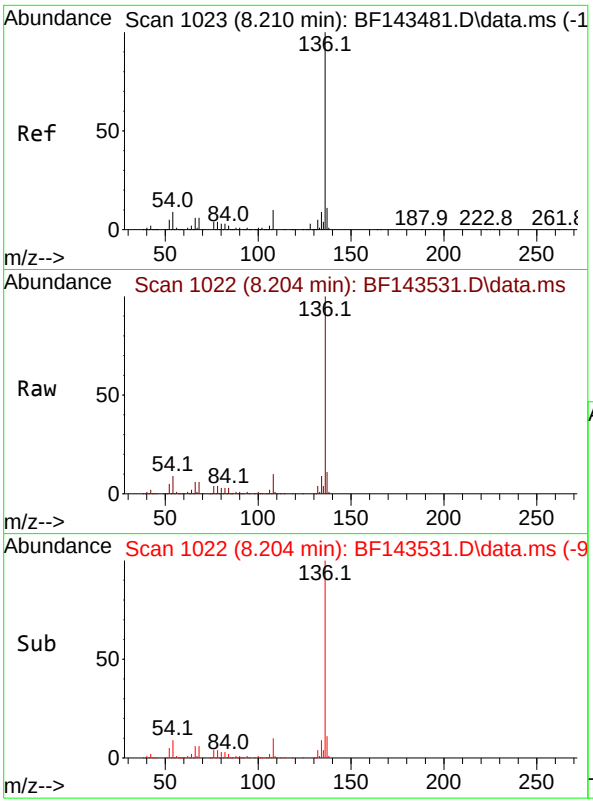


#19
n-Nitroso-di-n-propylamine
Concen: 10.321 ng
RT: 7.481 min Scan# 899
Delta R.T. 0.129 min
Lab File: BF143531.D
Acq: 21 Aug 2025 15:40

Tgt Ion: 70 Resp: 54521

Ion	Ratio	Lower	Upper
70	100		
42	51.9	49.3	73.9
101	0.0	7.8	11.8#
130	1.9	16.6	25.0#



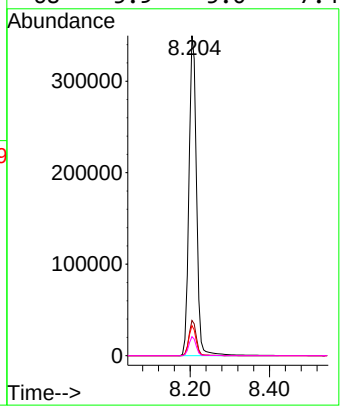


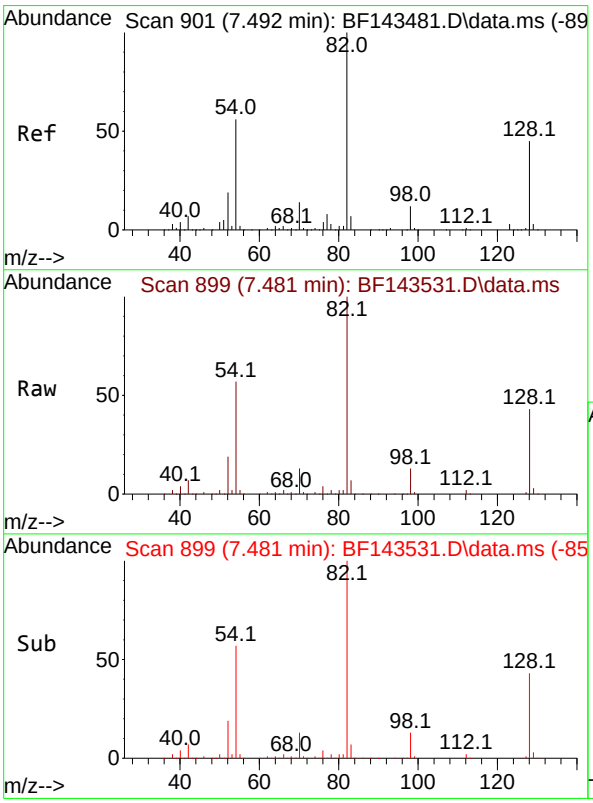
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.204 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143531.D
Acq: 21 Aug 2025 15:40

Instrument :
BNA_F
ClientSampleId :
84SB-W

Tgt Ion:136 Resp: 463361

Ion	Ratio	Lower	Upper
136	100		
137	11.0	9.0	13.4
54	9.4	7.4	11.2
68	5.9	5.0	7.4

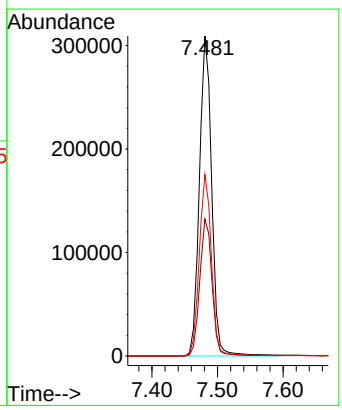


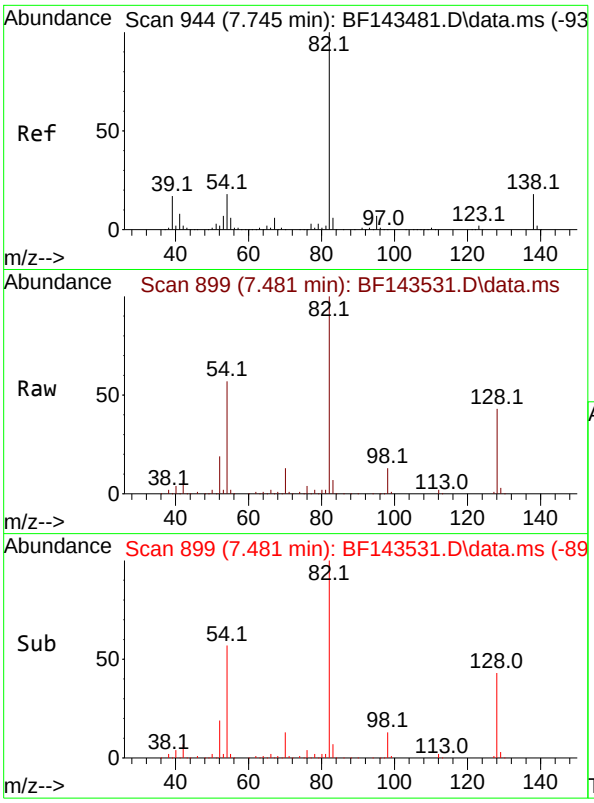


#23
Nitrobenzene-d5
Concen: 50.860 ng
RT: 7.481 min Scan# 899
Delta R.T. -0.018 min
Lab File: BF143531.D
Acq: 21 Aug 2025 15:40

Tgt Ion: 82 Resp: 403850

Ion	Ratio	Lower	Upper
82	100		
128	42.8	35.5	53.3
54	56.7	44.3	66.5



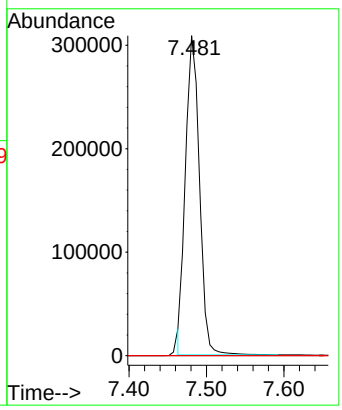


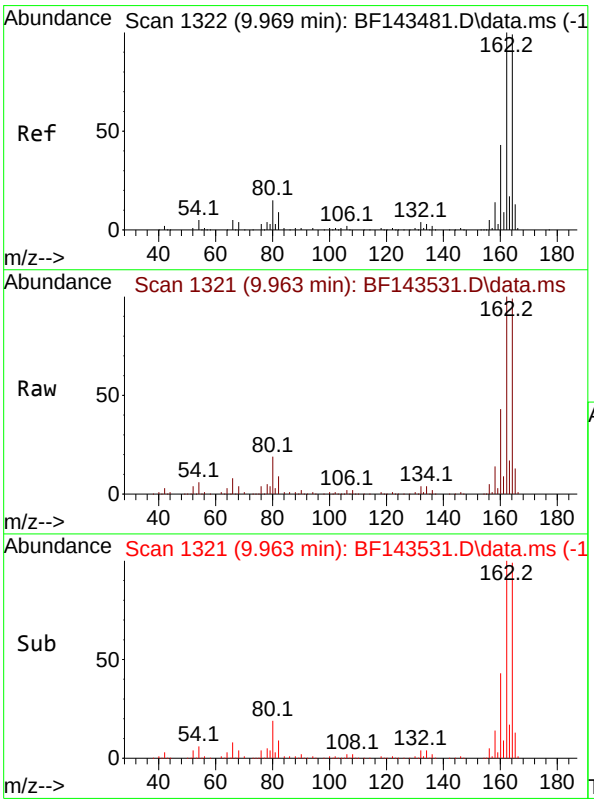
#25
Isophorone
Concen: 26.591 ng
RT: 7.481 min Scan# 8
Delta R.T. -0.276 min
Lab File: BF143531.D
Acq: 21 Aug 2025 15:40

Instrument :
BNA_F
ClientSampleId :
84SB-W

Tgt Ion: 82 Resp: 387041

Ion	Ratio	Lower	Upper
82	100		
95	0.0	5.8	8.8#
138	0.0	14.2	21.4#

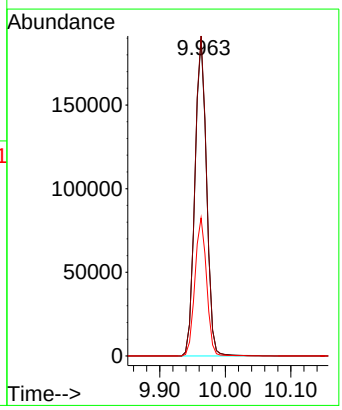


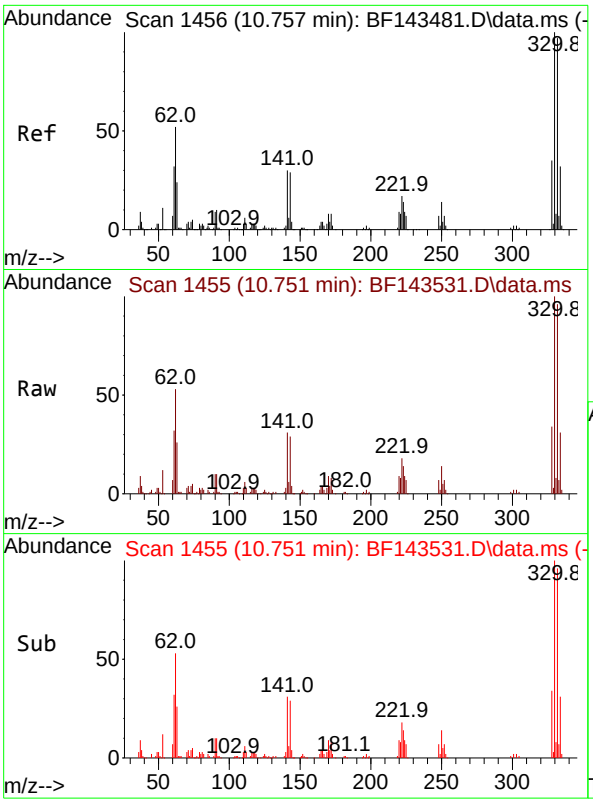


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.963 min Scan# 1321
Delta R.T. -0.006 min
Lab File: BF143531.D
Acq: 21 Aug 2025 15:40

Tgt Ion:164 Resp: 234484

Ion	Ratio	Lower	Upper
164	100		
162	101.1	80.5	120.7
160	43.6	34.3	51.5



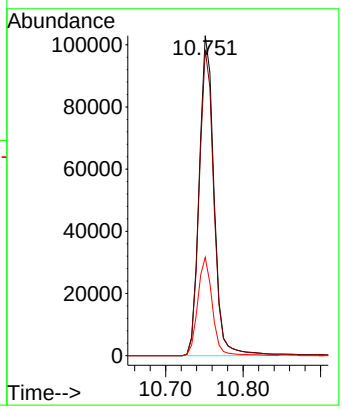


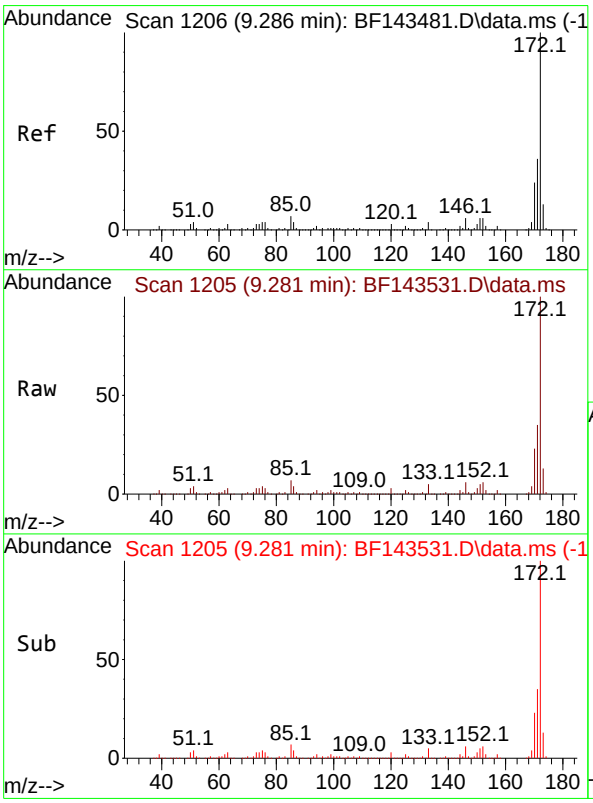
#42
2,4,6-Tribromophenol
Concen: 62.600 ng
RT: 10.751 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF143531.D
Acq: 21 Aug 2025 15:40

Instrument :
BNA_F
ClientSampleId :
84SB-W

Tgt Ion:330 Resp: 136637

Ion	Ratio	Lower	Upper
330	100		
332	96.0	78.0	117.0
141	30.4	23.7	35.5

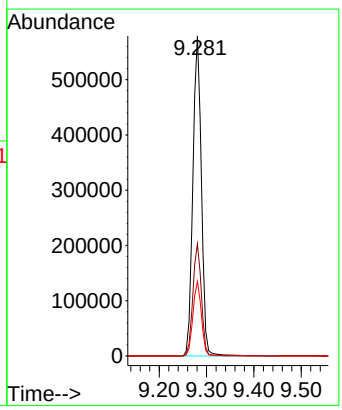


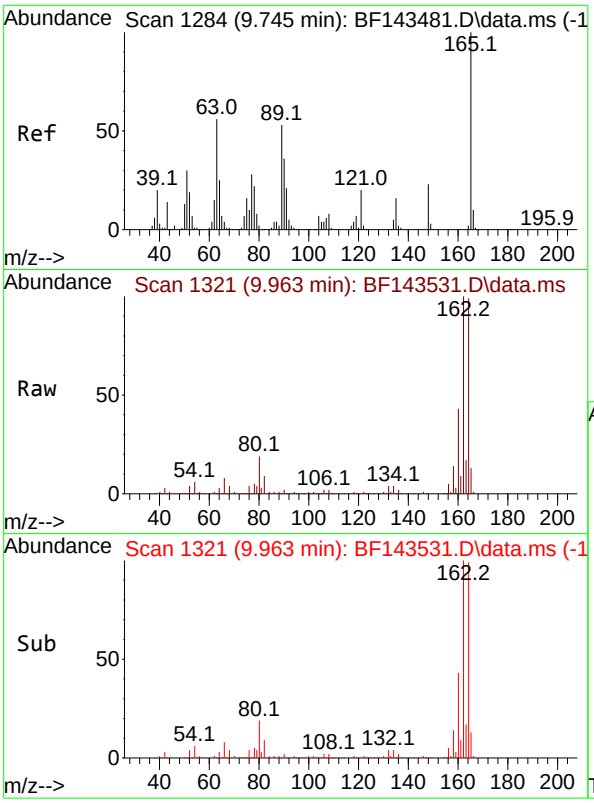


#45
2-Fluorobiphenyl
Concen: 51.222 ng
RT: 9.281 min Scan# 1205
Delta R.T. -0.006 min
Lab File: BF143531.D
Acq: 21 Aug 2025 15:40

Tgt Ion:172 Resp: 726749

Ion	Ratio	Lower	Upper
172	100		
171	35.1	28.8	43.2
170	23.3	18.8	28.2



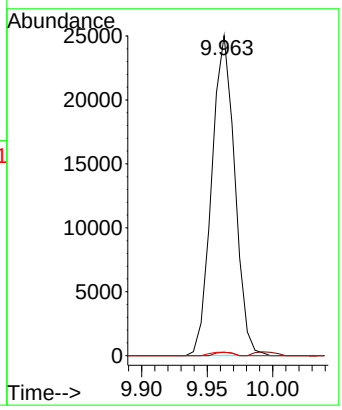


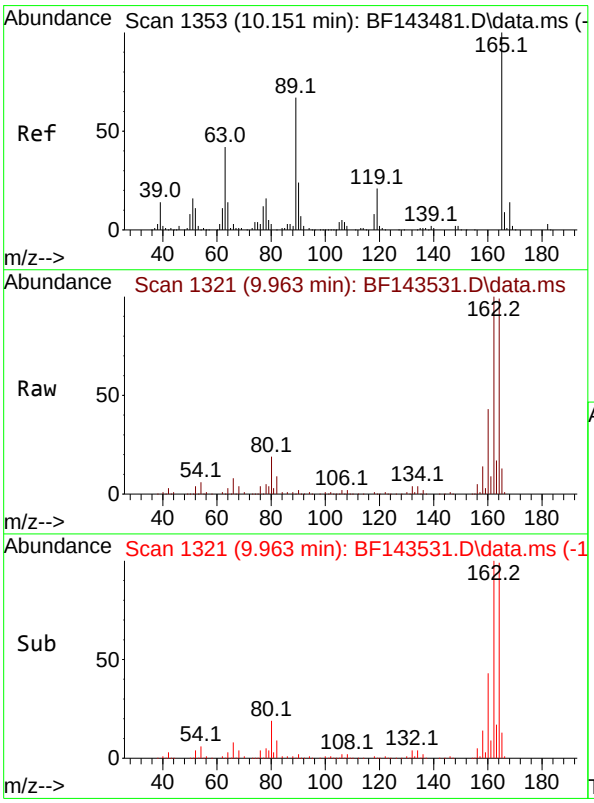
#51
2,6-Dinitrotoluene
Concen: 10.454 ng
RT: 9.963 min Scan# 1
Delta R.T. 0.212 min
Lab File: BF143531.D
Acq: 21 Aug 2025 15:40

Instrument :
BNA_F
ClientSampleId :
84SB-W

Tgt Ion:165 Resp: 30598

Ion	Ratio	Lower	Upper
165	100		
63	1.0	45.0	67.6#
89	1.1	42.5	63.7#

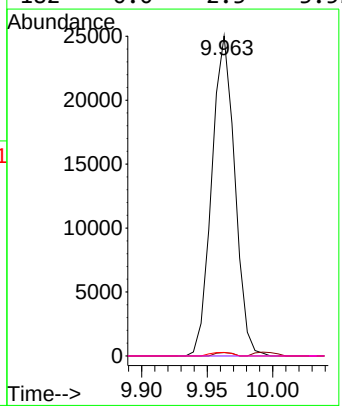


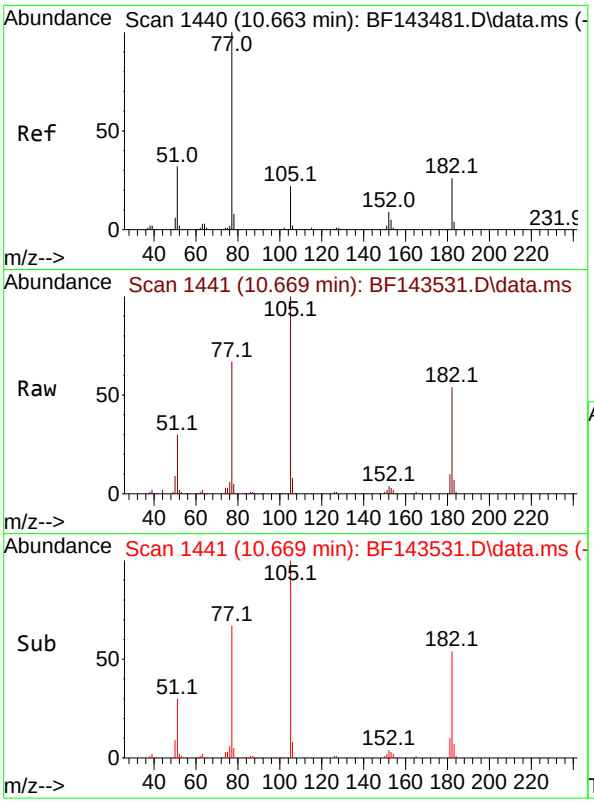


#57
2,4-Dinitrotoluene
Concen: 7.829 ng
RT: 9.963 min Scan# 1321
Delta R.T. -0.194 min
Lab File: BF143531.D
Acq: 21 Aug 2025 15:40

Tgt Ion:165 Resp: 30598

Ion	Ratio	Lower	Upper
165	100		
63	1.0	34.9	52.3#
89	1.1	53.3	79.9#
182	0.0	2.3	3.5#



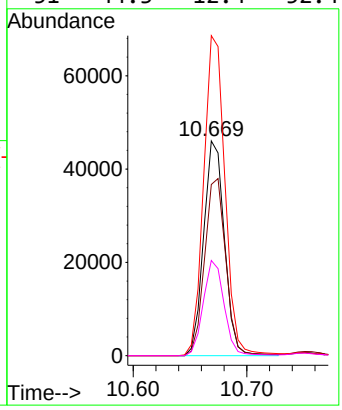


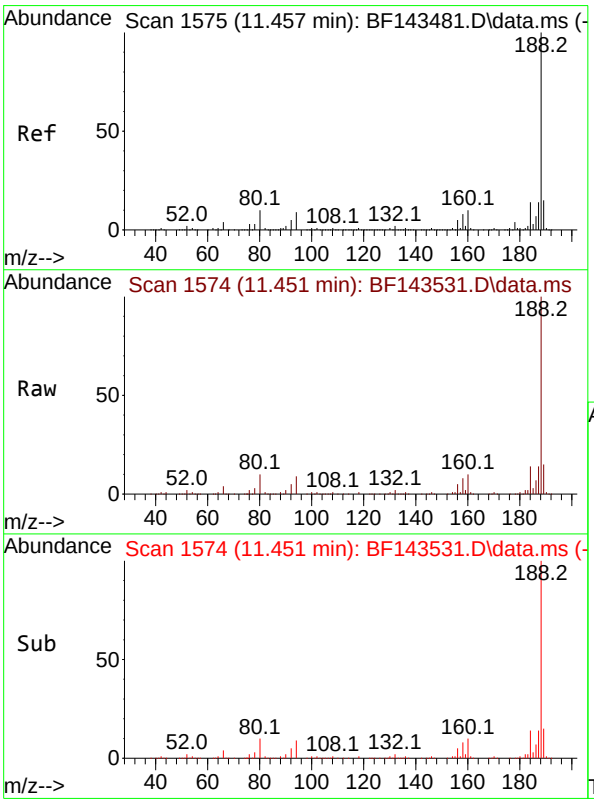
#63
Azobenzene
Concen: 4.466 ng
RT: 10.669 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF143531.D
Acq: 21 Aug 2025 15:40

Instrument :
BNA_F
ClientSampleId :
84SB-W

Tgt Ion: 77 Resp: 58631

Ion	Ratio	Lower	Upper
77	100		
182	79.7	6.2	46.2#
105	149.0	2.2	42.2#
51	44.3	12.4	52.4

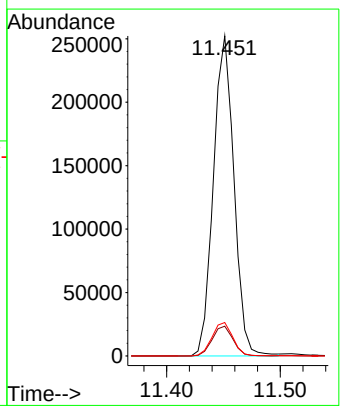


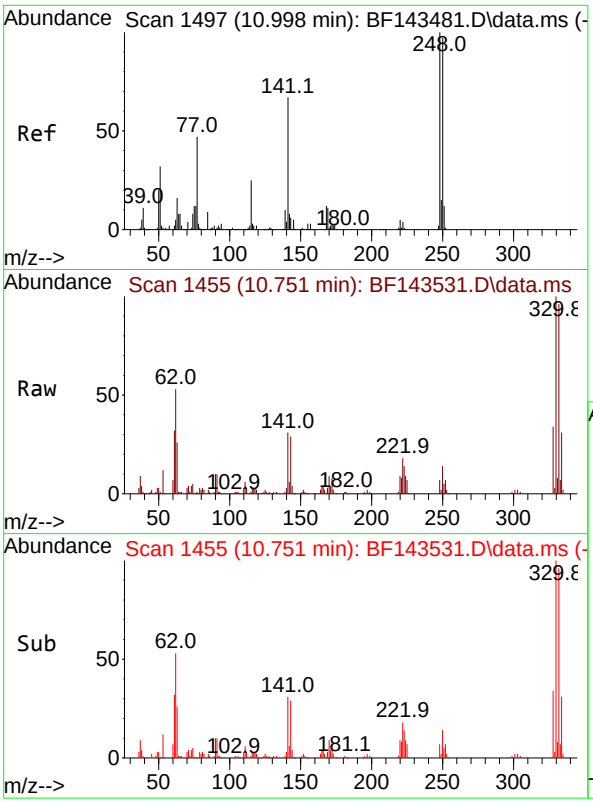


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.451 min Scan# 1574
Delta R.T. -0.006 min
Lab File: BF143531.D
Acq: 21 Aug 2025 15:40

Tgt Ion:188 Resp: 317712

Ion	Ratio	Lower	Upper
188	100		
94	9.3	7.4	11.2
80	10.5	8.2	12.4



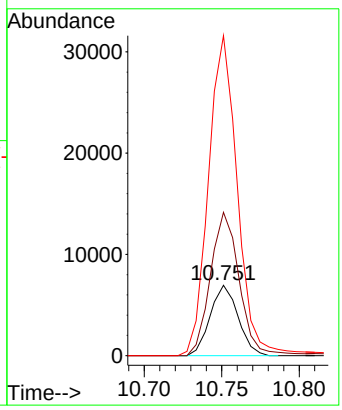


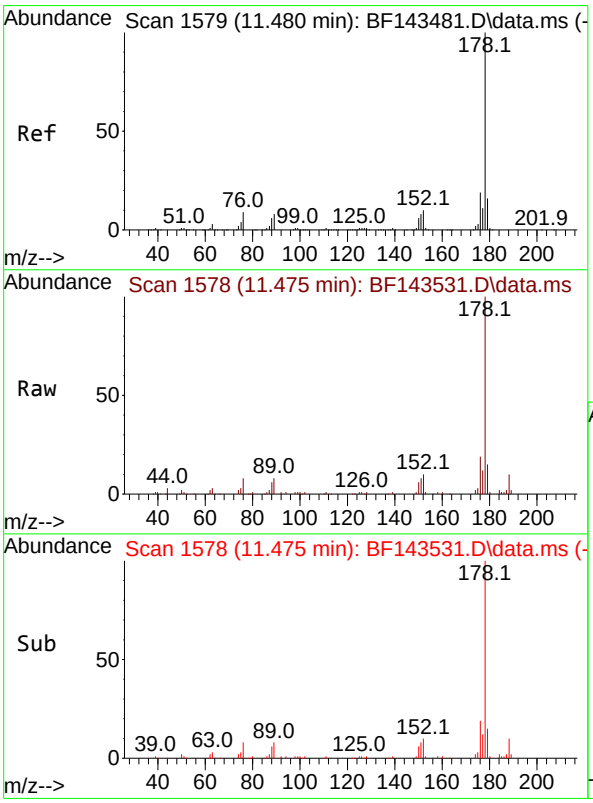
#67
4-Bromophenyl-phenylether
Concen: 2.296 ng
RT: 10.751 min Scan# 14
Delta R.T. -0.247 min
Lab File: BF143531.D
Acq: 21 Aug 2025 15:40

Instrument :
BNA_F
ClientSampleId :
84SB-W

Tgt Ion:248 Resp: 8704

Ion	Ratio	Lower	Upper
248	100		
250	203.5	77.8	116.8#
141	454.4	54.0	81.0#

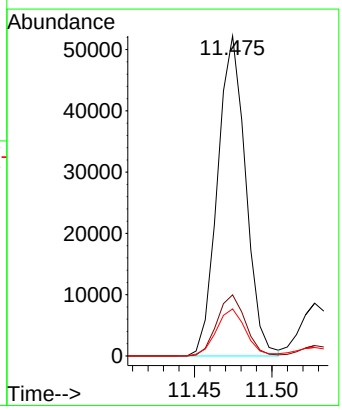


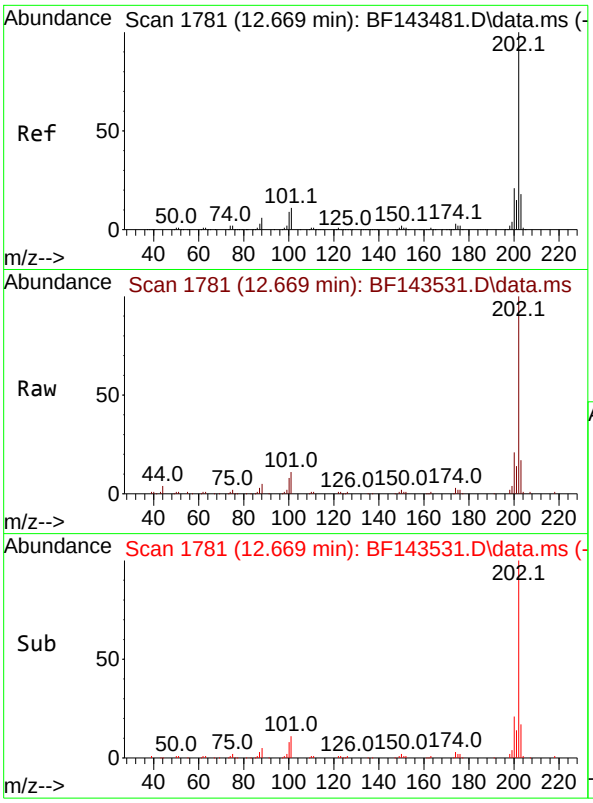


#71
Phenanthrene
Concen: 3.872 ng
RT: 11.475 min Scan# 1578
Delta R.T. -0.006 min
Lab File: BF143531.D
Acq: 21 Aug 2025 15:40

Tgt Ion:178 Resp: 65872

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.5	23.3
179	14.7	12.5	18.7



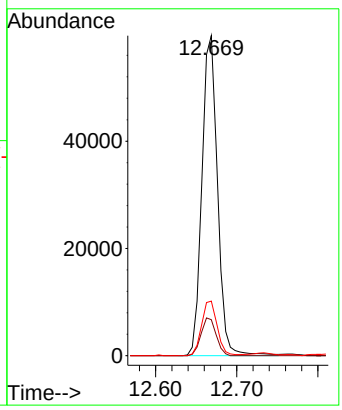


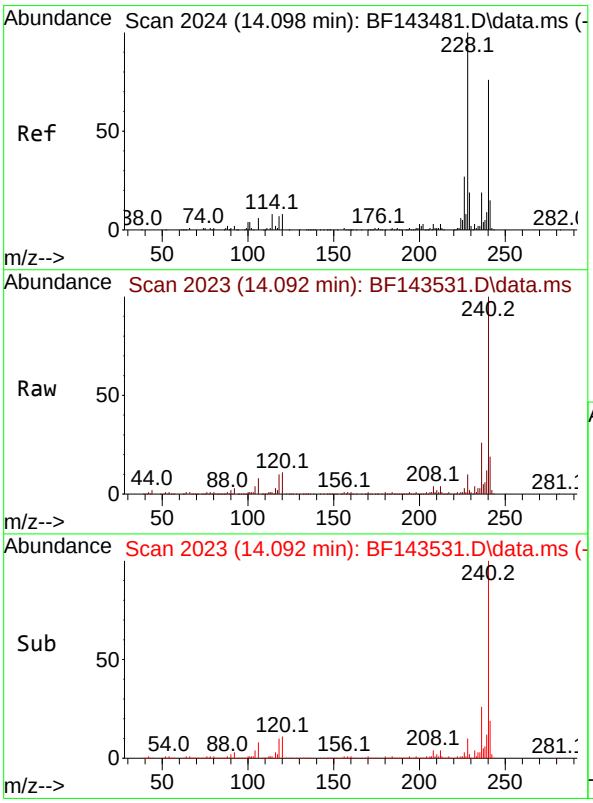
#75
Fluoranthene
Concen: 5.209 ng
RT: 12.669 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143531.D
Acq: 21 Aug 2025 15:40

Instrument :
BNA_F
ClientSampleId :
84SB-W

Tgt Ion:202 Resp: 79522

Ion	Ratio	Lower	Upper
202	100		
101	11.3	0.0	31.3
203	17.1	0.0	37.9

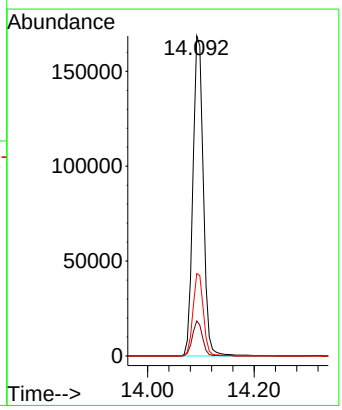


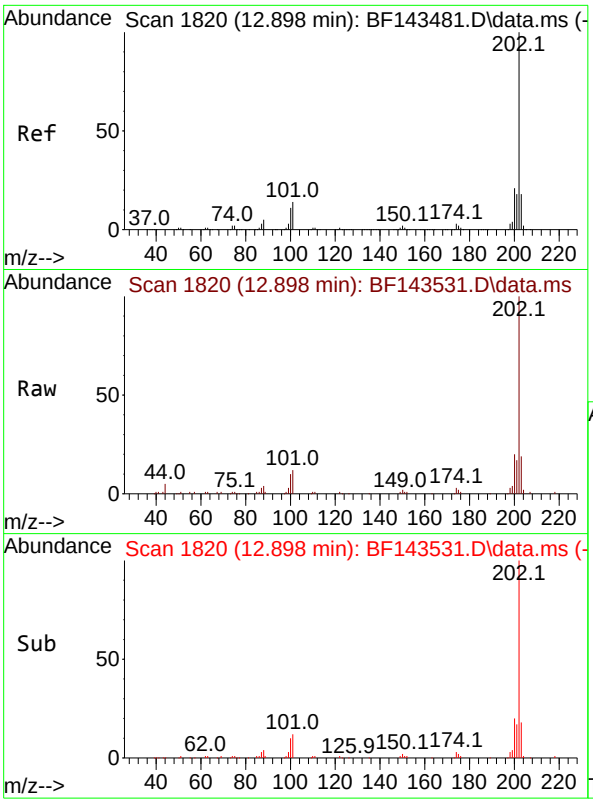


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.092 min Scan# 2023
Delta R.T. -0.012 min
Lab File: BF143531.D
Acq: 21 Aug 2025 15:40

Tgt Ion:240 Resp: 229692

Ion	Ratio	Lower	Upper
240	100		
120	11.0	8.6	12.8
236	25.8	20.4	30.6



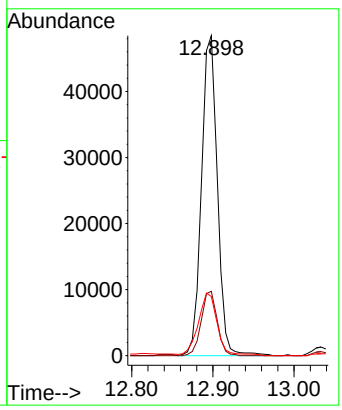


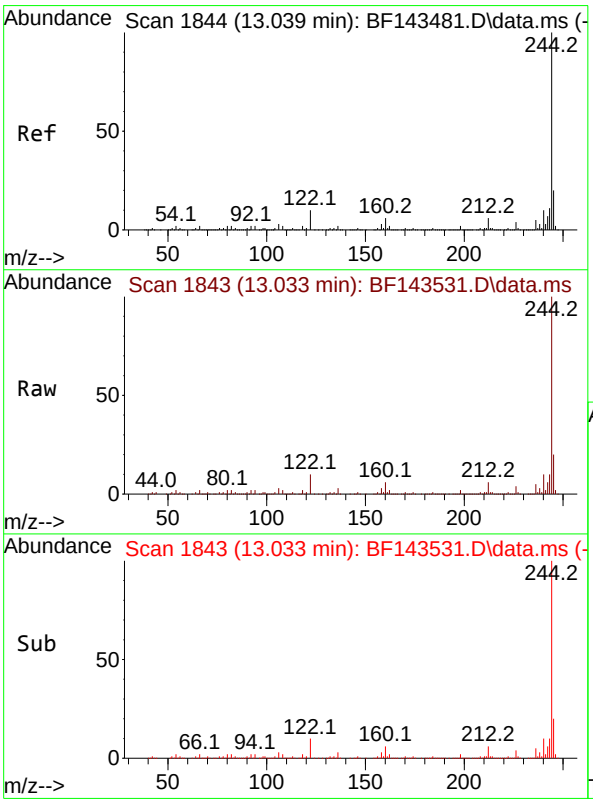
#78
Pyrene
Concen: 3.487 ng
RT: 12.898 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143531.D
Acq: 21 Aug 2025 15:40

Instrument :
BNA_F
ClientSampleId :
84SB-W

Tgt Ion:202 Resp: 65892

Ion	Ratio	Lower	Upper
202	100		
200	20.1	17.0	25.4
203	18.5	14.3	21.5

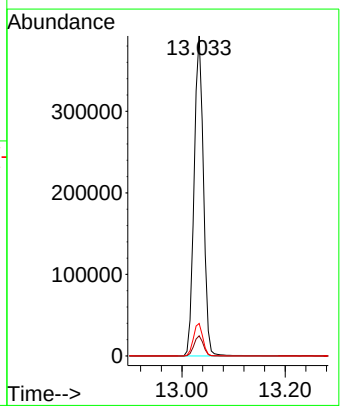


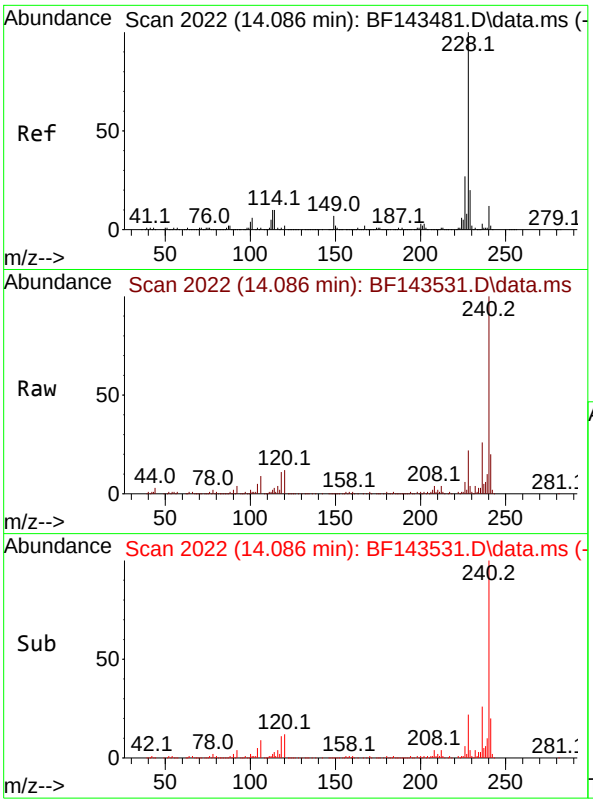


#79
Terphenyl-d14
Concen: 37.344 ng
RT: 13.033 min Scan# 1843
Delta R.T. -0.006 min
Lab File: BF143531.D
Acq: 21 Aug 2025 15:40

Tgt Ion:244 Resp: 491548

Ion	Ratio	Lower	Upper
244	100		
212	6.3	5.2	7.8
122	10.2	7.9	11.9



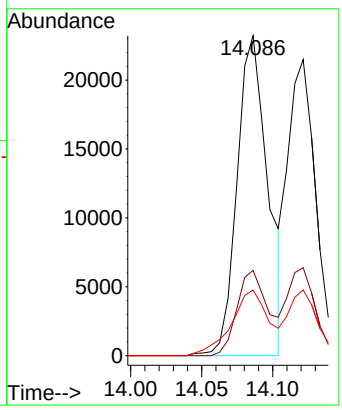


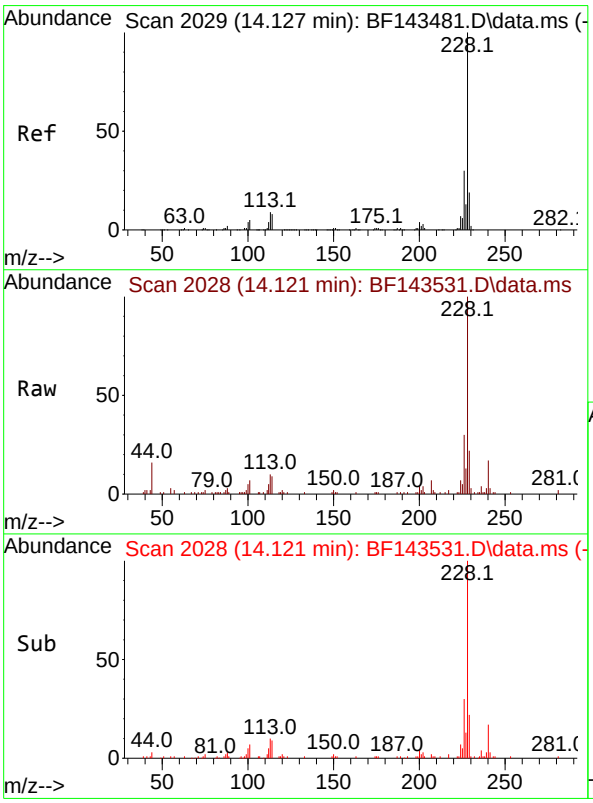
#81
Benzo(a)anthracene
Concen: 2.368 ng
RT: 14.086 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF143531.D
Acq: 21 Aug 2025 15:40

Instrument :
BNA_F
ClientSampleId :
84SB-W

Tgt Ion:228 Resp: 35019

Ion	Ratio	Lower	Upper
228	100		
226	26.6	21.7	32.5
229	20.5	15.7	23.5

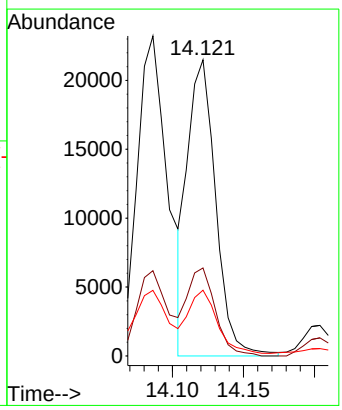


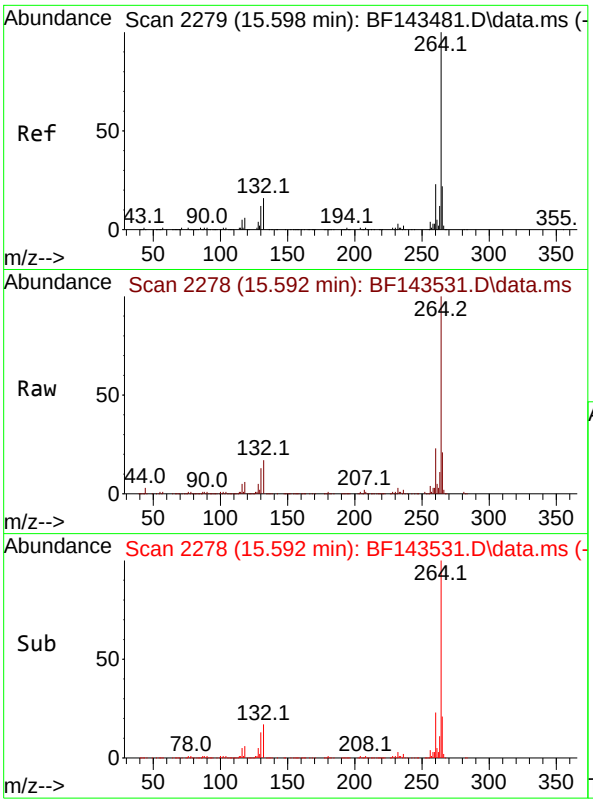


#83
Chrysene
Concen: 2.231 ng
RT: 14.121 min Scan# 2028
Delta R.T. -0.006 min
Lab File: BF143531.D
Acq: 21 Aug 2025 15:40

Tgt Ion:228 Resp: 29650

Ion	Ratio	Lower	Upper
228	100		
226	29.7	23.7	35.5
229	22.2	15.7	23.5



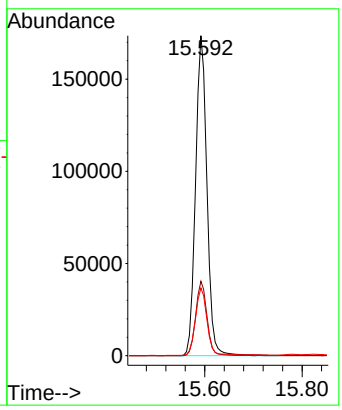


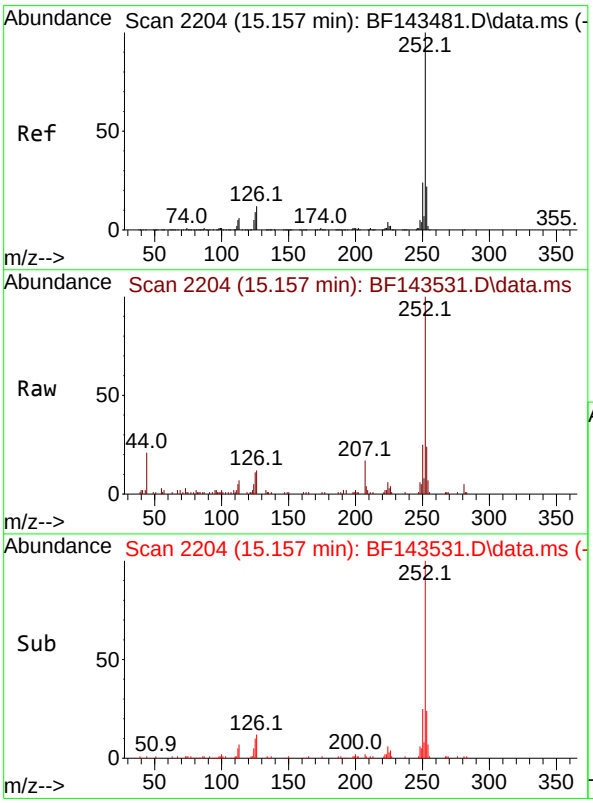
#86
Perylene-d12
Concen: 20.000 ng
RT: 15.592 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF143531.D
Acq: 21 Aug 2025 15:40

Instrument :
BNA_F
ClientSampleId :
84SB-W

Tgt Ion:264 Resp: 283075

Ion	Ratio	Lower	Upper
264	100		
260	23.2	18.7	28.1
265	21.2	17.6	26.4

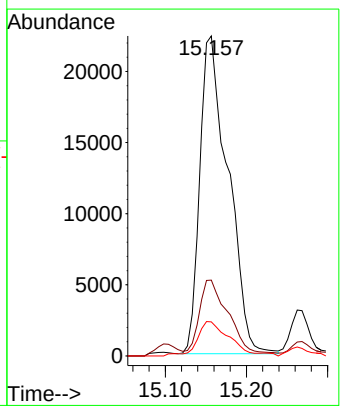


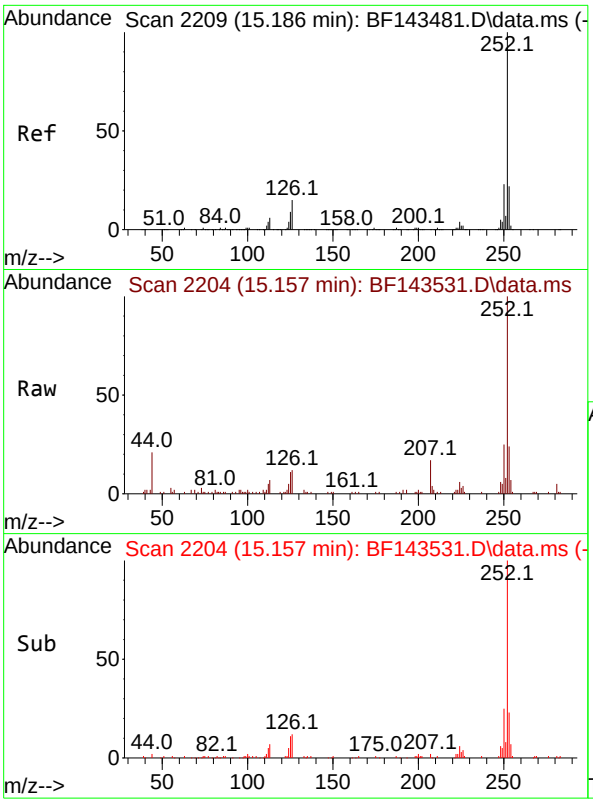


#88
Benzo(b)fluoranthene
Concen: 3.435 ng
RT: 15.157 min Scan# 2204
Delta R.T. 0.000 min
Lab File: BF143531.D
Acq: 21 Aug 2025 15:40

Tgt Ion:252 Resp: 54047

Ion	Ratio	Lower	Upper
252	100		
253	23.7	17.5	26.3
125	10.6	7.4	11.0



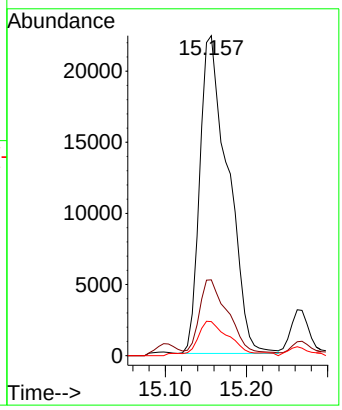


#89
Benzo(k)fluoranthene
Concen: 3.587 ng
RT: 15.157 min Scan# 2
Delta R.T. -0.035 min
Lab File: BF143531.D
Acq: 21 Aug 2025 15:40

Instrument :
BNA_F
ClientSampleId :
84SB-W

Tgt Ion:252 Resp: 54047

Ion	Ratio	Lower	Upper
252	100		
253	23.7	17.4	26.2
125	10.6	7.4	11.0



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
Data File : BF143533.D
Acq On : 21 Aug 2025 16:38
Operator : RC/JU
Sample : Q2819-01
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
22BP-N

Quant Time: Aug 21 17:25:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 21 06:12:21 2025
Response via : Initial Calibration

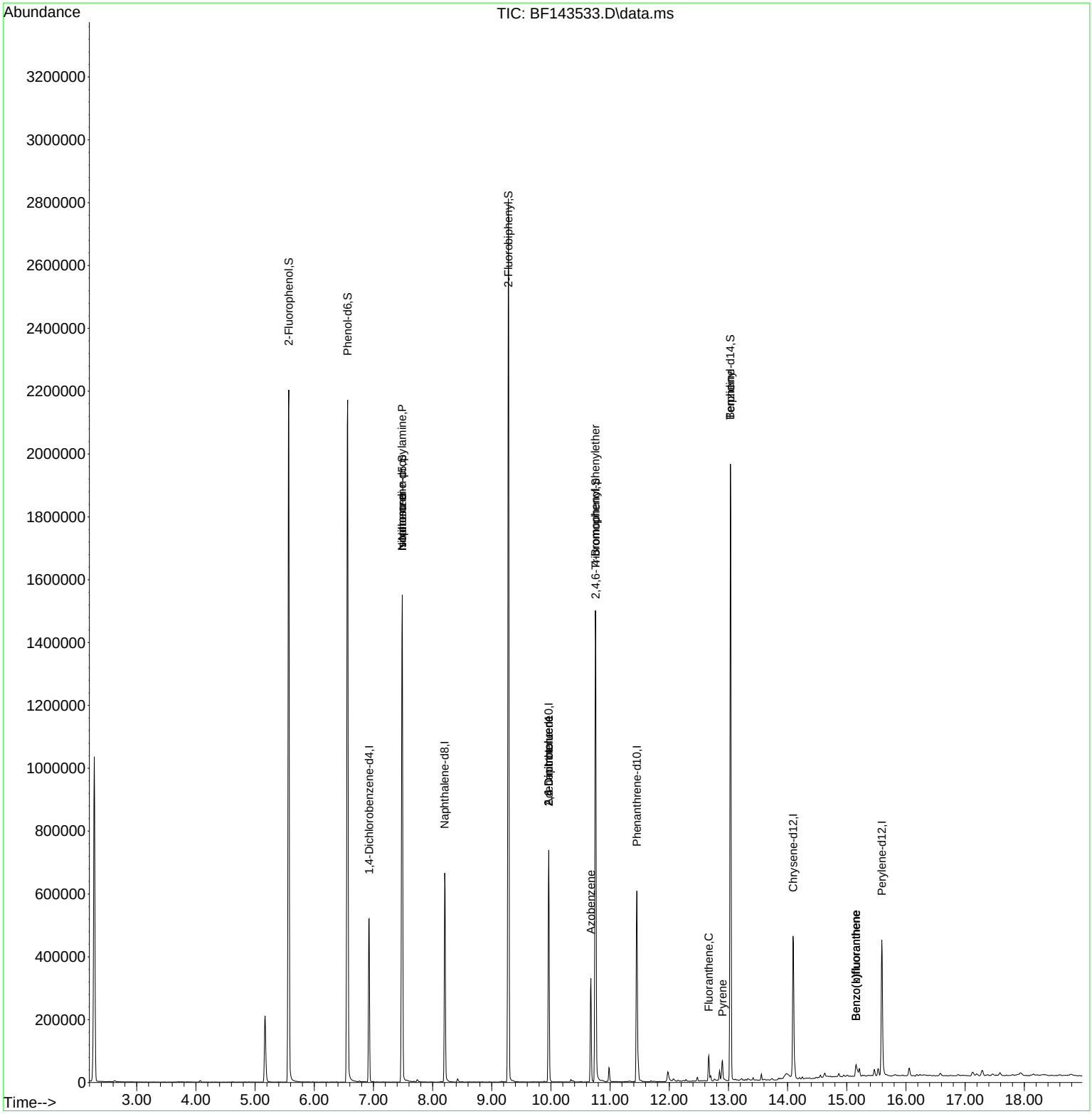
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.928	152	112966	20.000	ng	0.00
21) Naphthalene-d8	8.204	136	428039	20.000	ng	0.00
39) Acenaphthene-d10	9.963	164	220061	20.000	ng	0.00
64) Phenanthrene-d10	11.451	188	314605	20.000	ng	0.00
76) Chrysene-d12	14.092	240	220570	20.000	ng	-0.01
86) Perylene-d12	15.592	264	260684	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.569	112	842597	130.244	ng	0.00
7) Phenol-d6	6.563	99	1086824	136.089	ng	-0.01
23) Nitrobenzene-d5	7.486	82	713328	97.248	ng	-0.01
42) 2,4,6-Tribromophenol	10.757	330	273720	133.623	ng	0.00
45) 2-Fluorobiphenyl	9.280	172	1249277	93.822	ng	0.00
79) Terphenyl-d14	13.033	244	963544	76.231	ng	0.00
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	7.486	70	98247	20.127	ng	# 78
25) Isophorone	7.486	82	690472	51.352	ng	# 65
51) 2,6-Dinitrotoluene	9.963	165	28470	10.364	ng	# 26
57) 2,4-Dinitrotoluene	9.963	165	28470	7.762	ng	# 26
63) Azobenzene	10.674	77	82806	6.721	ng	# 1
67) 4-Bromophenyl-phenylether	10.751	248	18143	4.833	ng	# 1
75) Fluoranthene	12.668	202	48638	3.217	ng	99
77) Benzidine	13.033	184	11798	2.196	ng	# 93
78) Pyrene	12.898	202	37910	2.089	ng	98
88) Benzo(b)fluoranthene	15.156	252	34824	2.403	ng	99
89) Benzo(k)fluoranthene	15.156	252	34824	2.510	ng	99

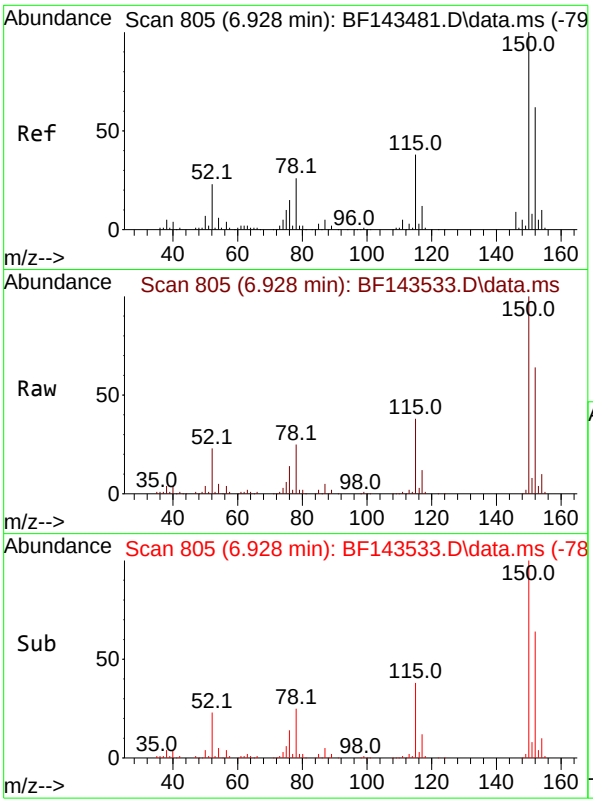
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082125\
Data File : BF143533.D
Acq On : 21 Aug 2025 16:38
Operator : RC/JU
Sample : Q2819-01
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
22BP-N

Quant Time: Aug 21 17:25:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 21 06:12:21 2025
Response via : Initial Calibration



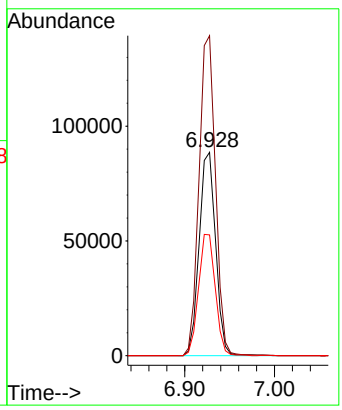


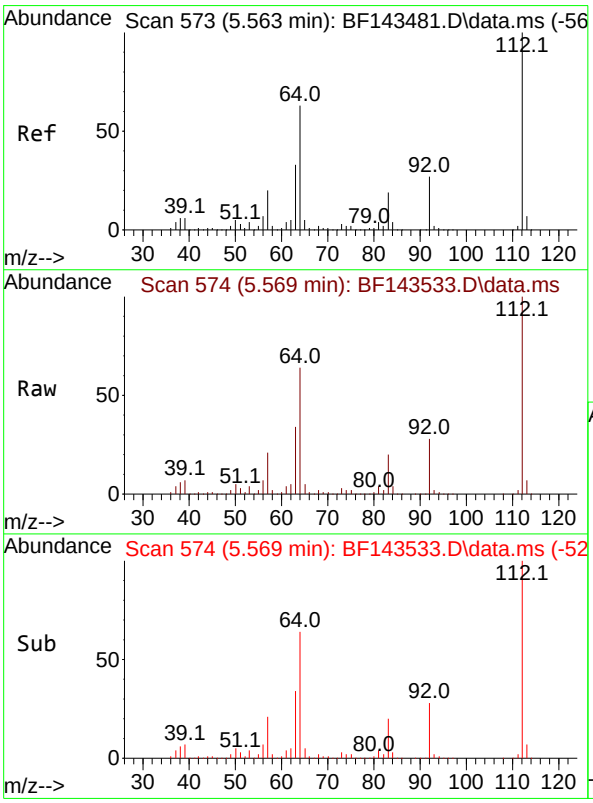
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.928 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF143533.D
Acq: 21 Aug 2025 16:38

Instrument :
BNA_F
ClientSampleId :
22BP-N

Tgt Ion:152 Resp: 112966

Ion	Ratio	Lower	Upper
152	100		
150	157.3	128.9	193.3
115	59.4	49.2	73.8

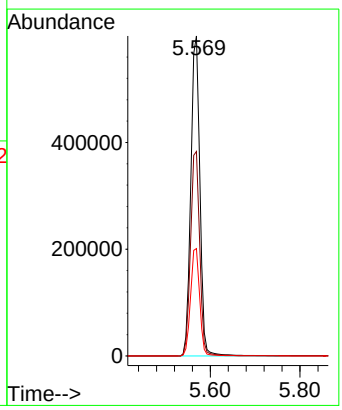


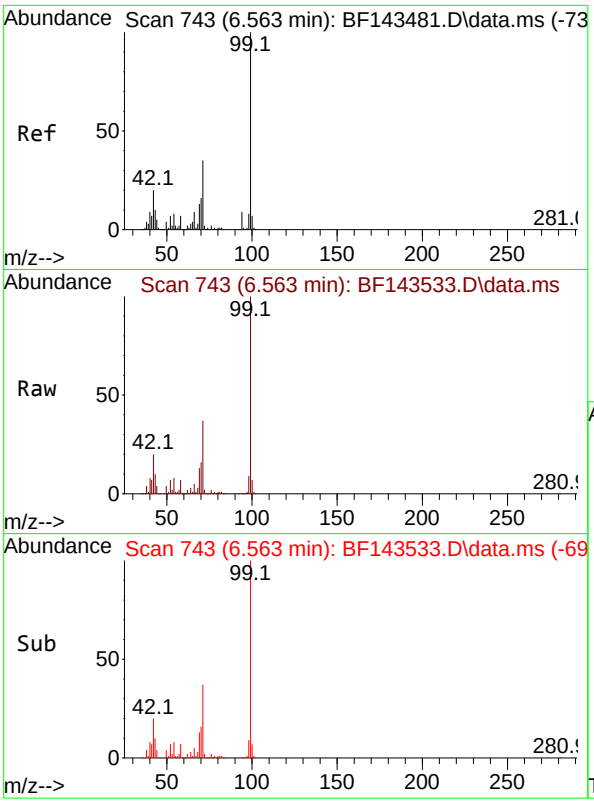


#5
2-Fluorophenol
Concen: 130.244 ng
RT: 5.569 min Scan# 574
Delta R.T. 0.006 min
Lab File: BF143533.D
Acq: 21 Aug 2025 16:38

Tgt Ion:112 Resp: 842597

Ion	Ratio	Lower	Upper
112	100		
64	63.9	50.4	75.6
63	33.5	26.4	39.6



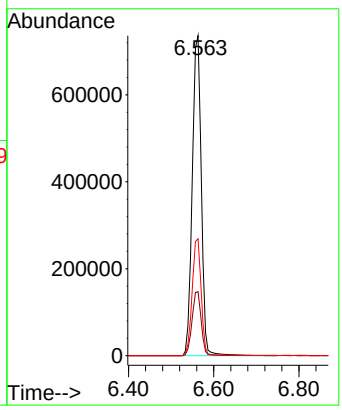


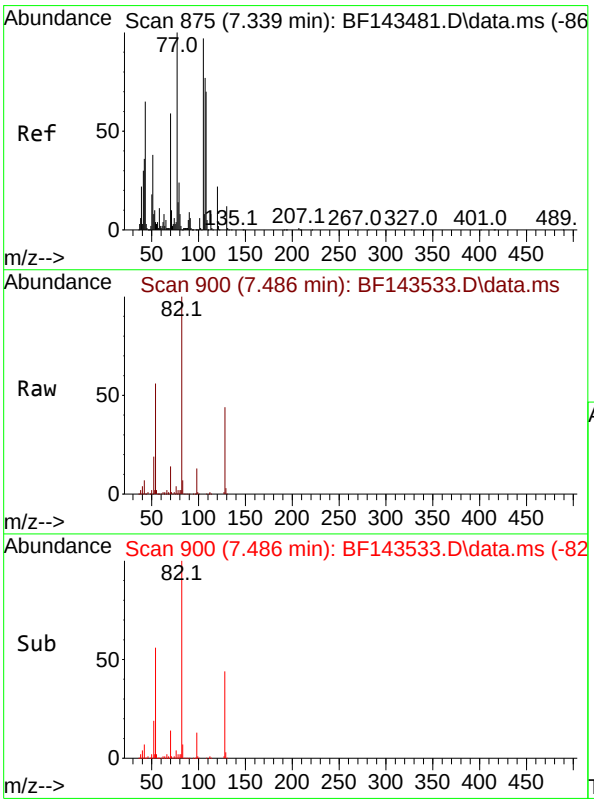
#7
Phenol-d6
Concen: 136.089 ng
RT: 6.563 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF143533.D
Acq: 21 Aug 2025 16:38

Instrument :
BNA_F
ClientSampleId :
22BP-N

Tgt Ion: 99 Resp: 1086824

Ion	Ratio	Lower	Upper
99	100		
42	20.0	16.3	24.5
71	36.5	28.2	42.2

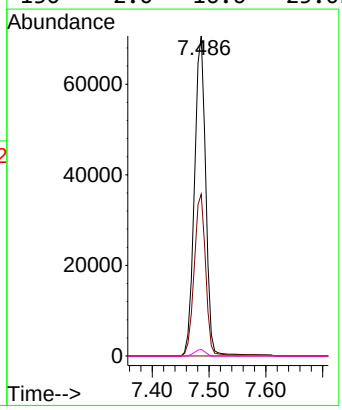


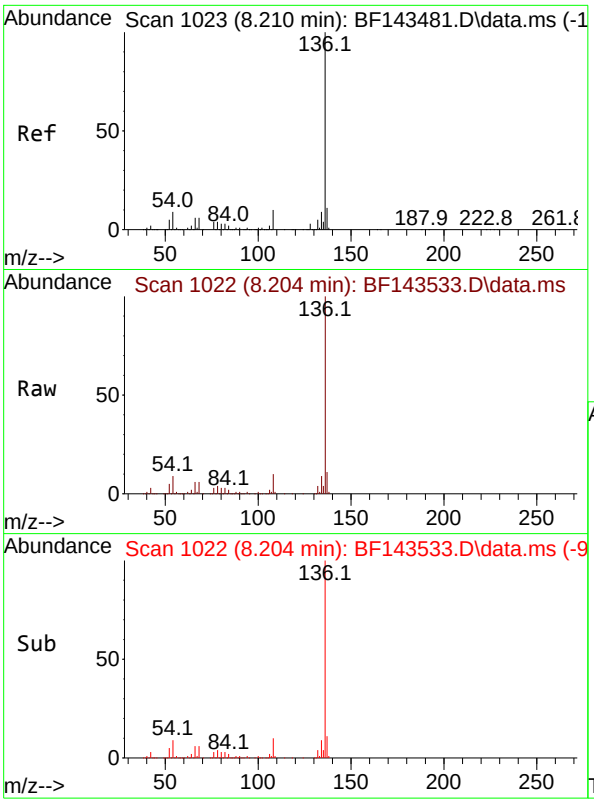


#19
n-Nitroso-di-n-propylamine
Concen: 20.127 ng
RT: 7.486 min Scan# 900
Delta R.T. 0.135 min
Lab File: BF143533.D
Acq: 21 Aug 2025 16:38

Tgt Ion: 70 Resp: 98247

Ion	Ratio	Lower	Upper
70	100		
42	50.5	49.3	73.9
101	0.0	7.8	11.8#
130	2.0	16.6	25.0#



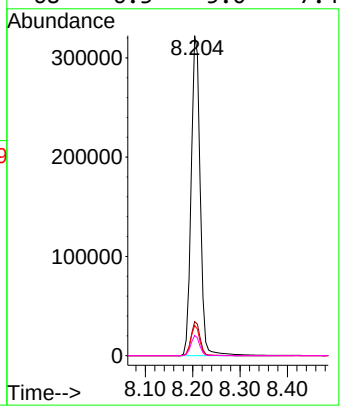


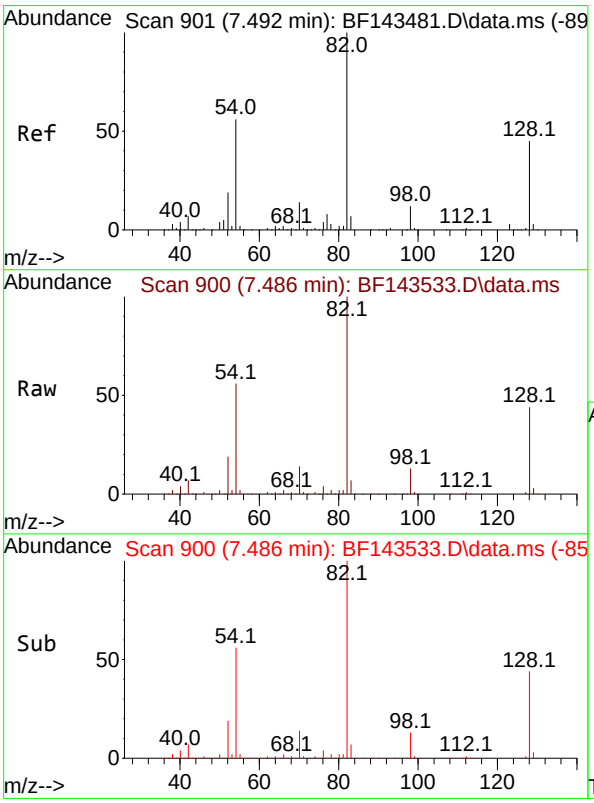
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.204 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143533.D
Acq: 21 Aug 2025 16:38

Instrument :
BNA_F
ClientSampleId :
22BP-N

Tgt Ion:136 Resp: 428039

Ion	Ratio	Lower	Upper
136	100		
137	10.7	9.0	13.4
54	9.5	7.4	11.2
68	6.3	5.0	7.4

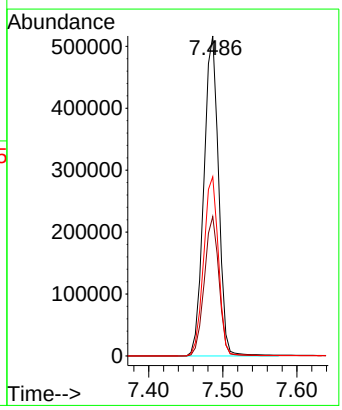


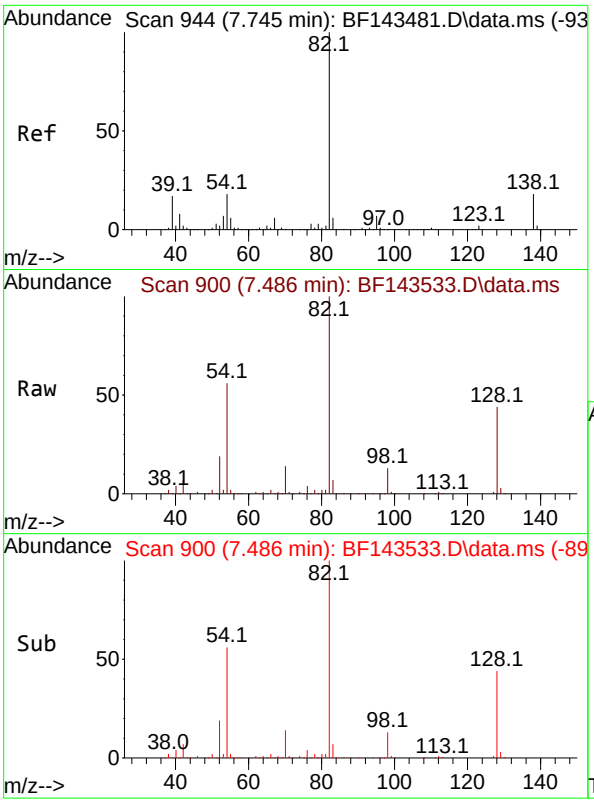


#23
Nitrobenzene-d5
Concen: 97.248 ng
RT: 7.486 min Scan# 900
Delta R.T. -0.012 min
Lab File: BF143533.D
Acq: 21 Aug 2025 16:38

Tgt Ion: 82 Resp: 713328

Ion	Ratio	Lower	Upper
82	100		
128	43.6	35.5	53.3
54	56.0	44.3	66.5



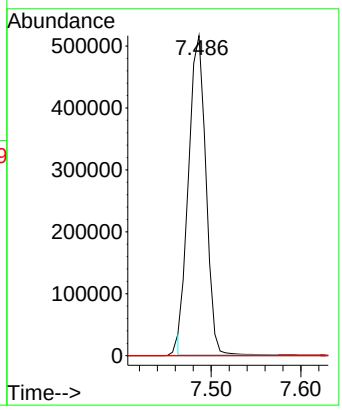


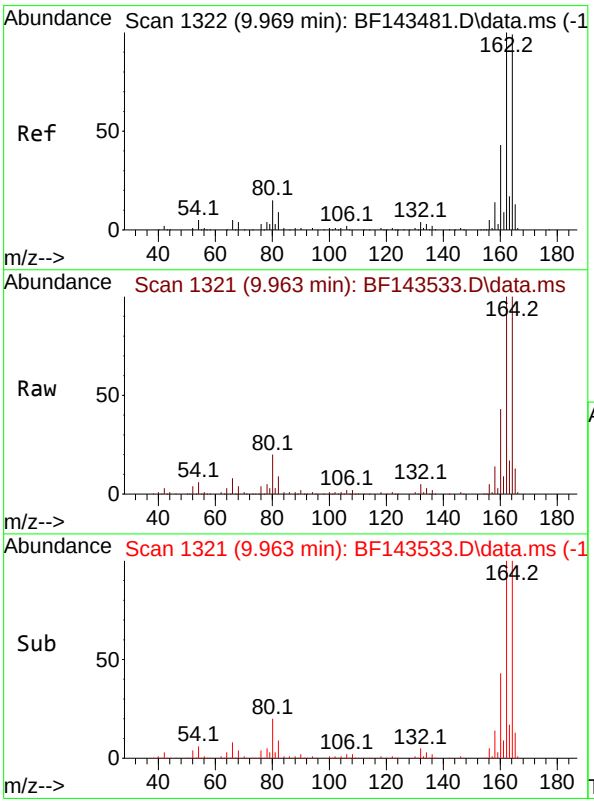
#25
Isophorone
Concen: 51.352 ng
RT: 7.486 min Scan# 9
Delta R.T. -0.271 min
Lab File: BF143533.D
Acq: 21 Aug 2025 16:38

Instrument :
BNA_F
ClientSampleId :
22BP-N

Tgt Ion: 82 Resp: 690472

Ion	Ratio	Lower	Upper
82	100		
95	0.0	5.8	8.8#
138	0.0	14.2	21.4#

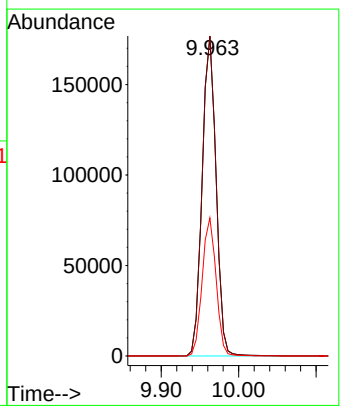


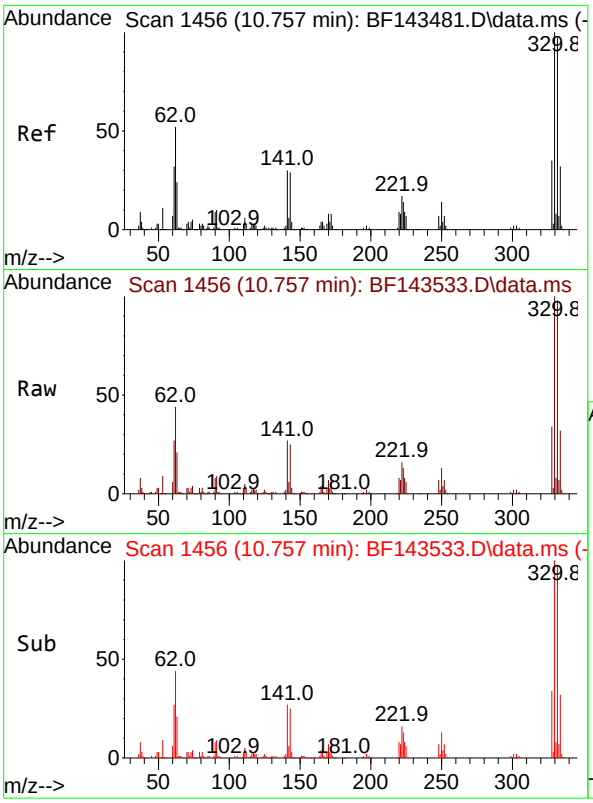


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.963 min Scan# 1321
Delta R.T. -0.006 min
Lab File: BF143533.D
Acq: 21 Aug 2025 16:38

Tgt Ion:164 Resp: 220061

Ion	Ratio	Lower	Upper
164	100		
162	100.2	80.5	120.7
160	43.2	34.3	51.5



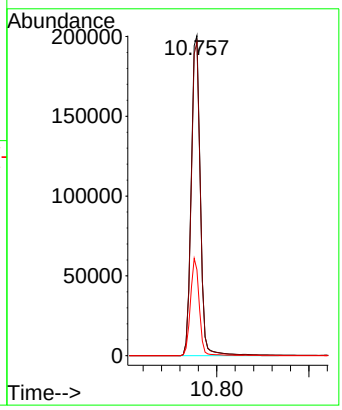


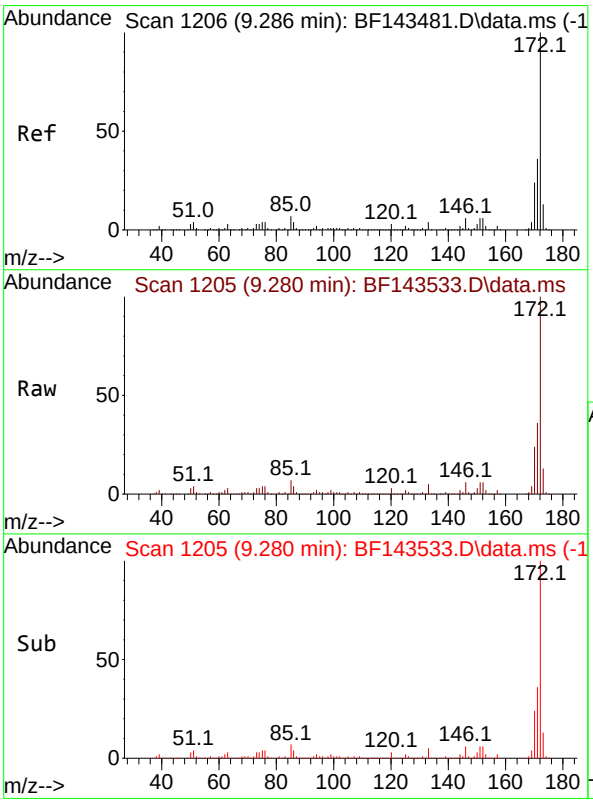
#42
2,4,6-Tribromophenol
Concen: 133.623 ng
RT: 10.757 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF143533.D
Acq: 21 Aug 2025 16:38

Instrument :
BNA_F
ClientSampleId :
22BP-N

Tgt Ion:330 Resp: 273720

Ion	Ratio	Lower	Upper
330	100		
332	97.7	78.0	117.0
141	29.4	23.7	35.5

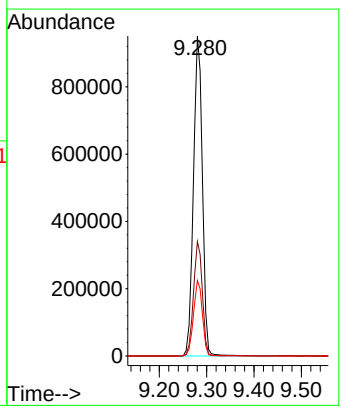


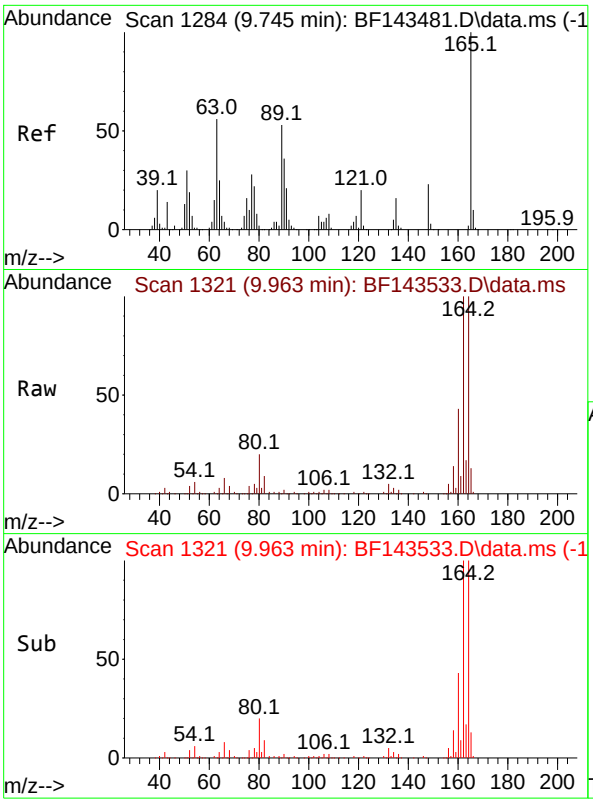


#45
2-Fluorobiphenyl
Concen: 93.822 ng
RT: 9.280 min Scan# 1205
Delta R.T. -0.006 min
Lab File: BF143533.D
Acq: 21 Aug 2025 16:38

Tgt Ion:172 Resp: 1249277

Ion	Ratio	Lower	Upper
172	100		
171	35.7	28.8	43.2
170	23.5	18.8	28.2



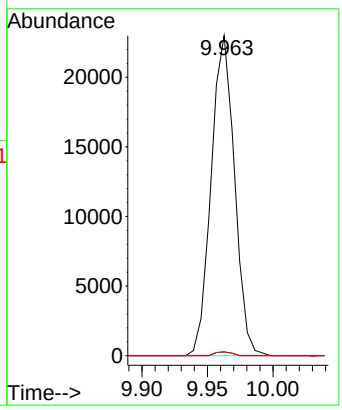


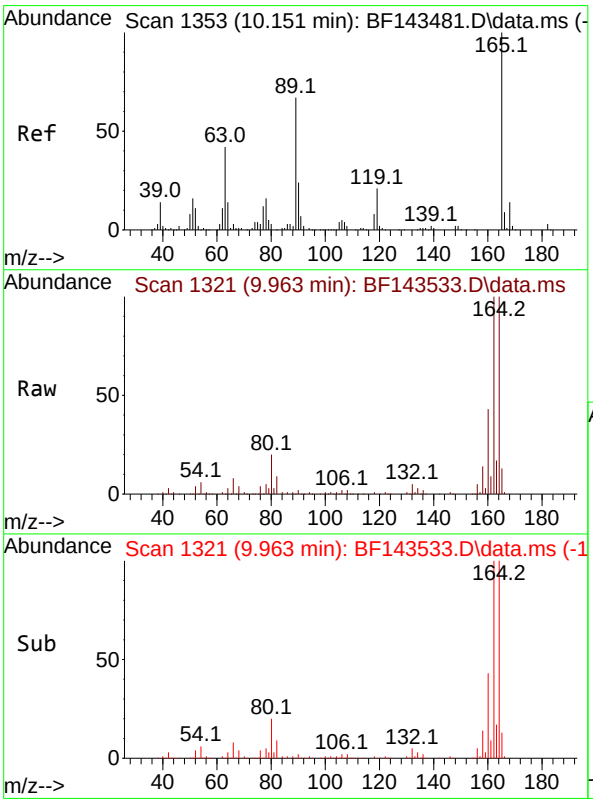
#51
2,6-Dinitrotoluene
Concen: 10.364 ng
RT: 9.963 min Scan# 1
Delta R.T. 0.212 min
Lab File: BF143533.D
Acq: 21 Aug 2025 16:38

Instrument :
BNA_F
ClientSampleId :
22BP-N

Tgt Ion:165 Resp: 28470

Ion	Ratio	Lower	Upper
165	100		
63	1.2	45.0	67.6#
89	1.1	42.5	63.7#

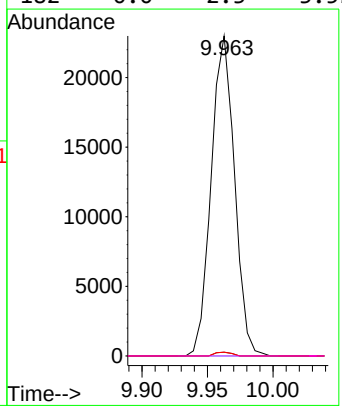


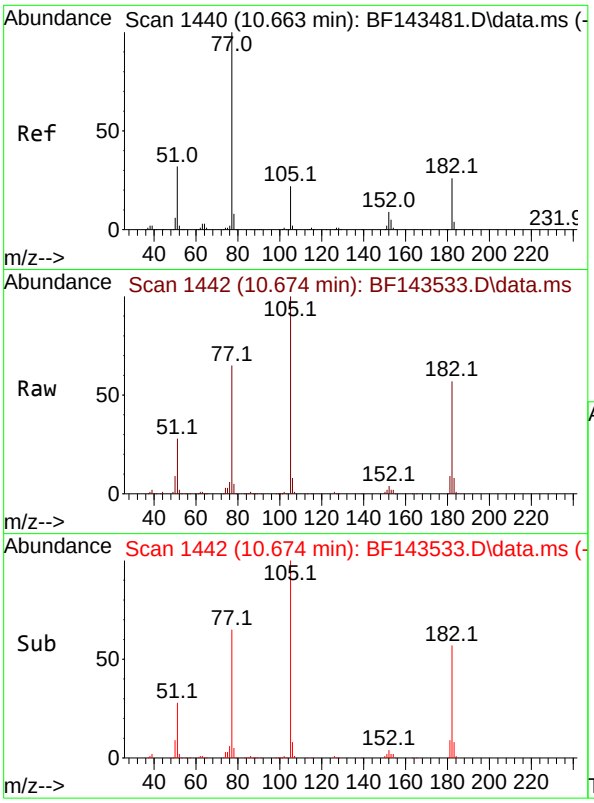


#57
2,4-Dinitrotoluene
Concen: 7.762 ng
RT: 9.963 min Scan# 1321
Delta R.T. -0.194 min
Lab File: BF143533.D
Acq: 21 Aug 2025 16:38

Tgt Ion:165 Resp: 28470

Ion	Ratio	Lower	Upper
165	100		
63	1.2	34.9	52.3#
89	1.1	53.3	79.9#
182	0.0	2.3	3.5#



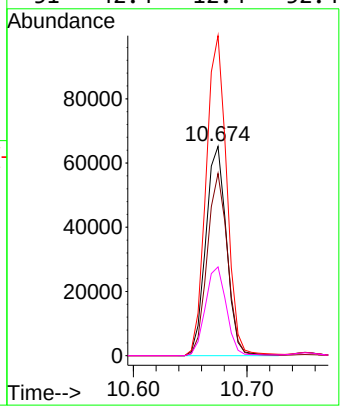


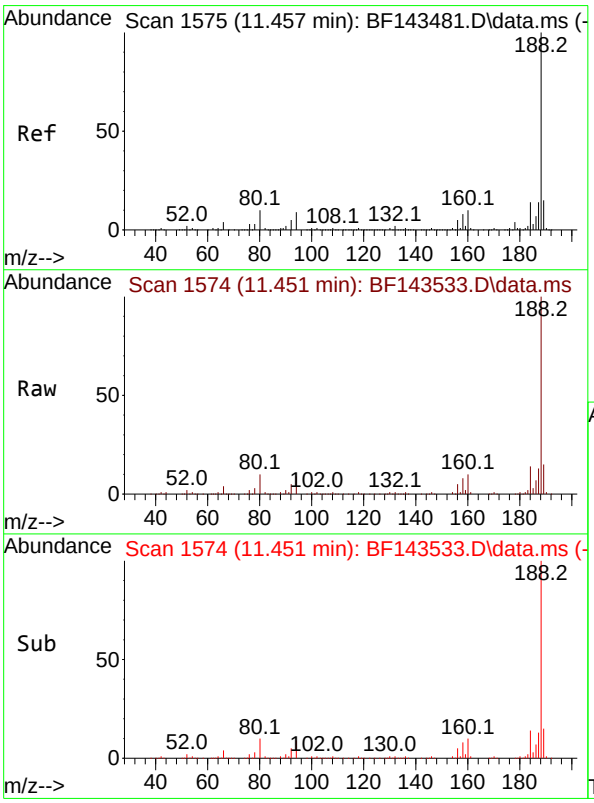
#63
Azobenzene
Concen: 6.721 ng
RT: 10.674 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF143533.D
Acq: 21 Aug 2025 16:38

Instrument :
BNA_F
ClientSampleId :
22BP-N

Tgt Ion: 77 Resp: 82806

Ion	Ratio	Lower	Upper
77	100		
182	87.1	6.2	46.2#
105	152.9	2.2	42.2#
51	42.4	12.4	52.4

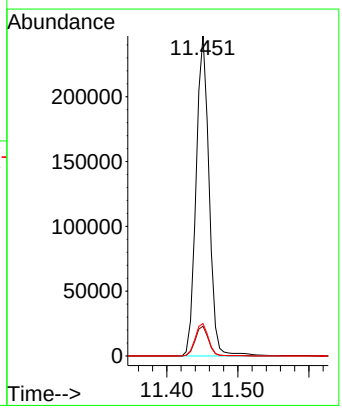


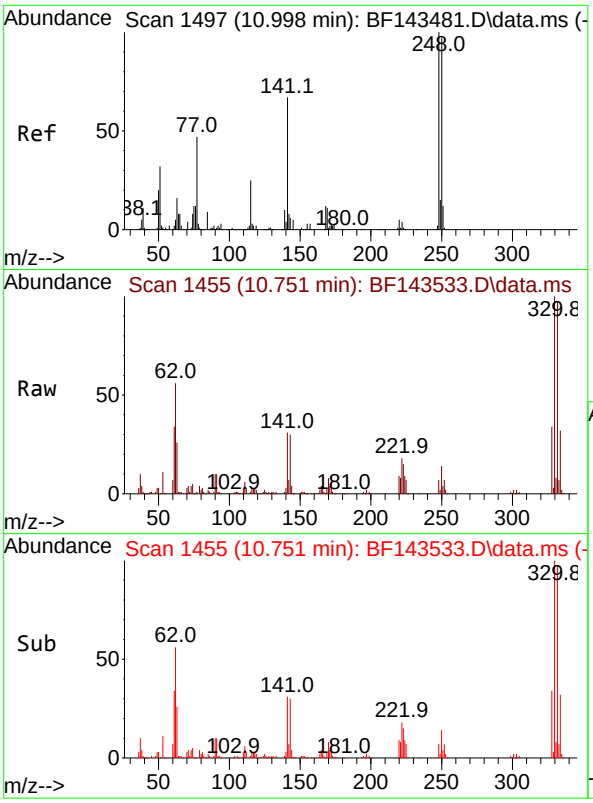


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.451 min Scan# 1574
Delta R.T. -0.006 min
Lab File: BF143533.D
Acq: 21 Aug 2025 16:38

Tgt Ion:188 Resp: 314605

Ion	Ratio	Lower	Upper
188	100		
94	9.3	7.4	11.2
80	10.2	8.2	12.4



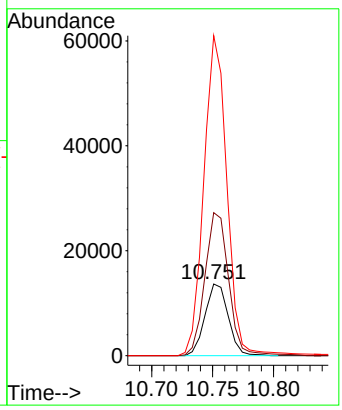


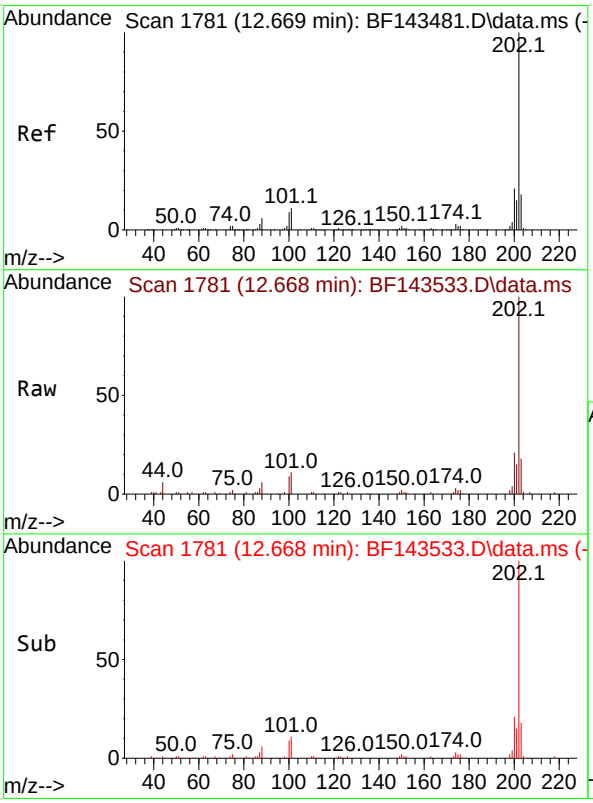
#67
4-Bromophenyl-phenylether
Concen: 4.833 ng
RT: 10.751 min Scan# 14
Delta R.T. -0.247 min
Lab File: BF143533.D
Acq: 21 Aug 2025 16:38

Instrument :
BNA_F
ClientSampleId :
22BP-N

Tgt Ion:248 Resp: 18143

Ion	Ratio	Lower	Upper
248	100		
250	199.7	77.8	116.8#
141	446.7	54.0	81.0#

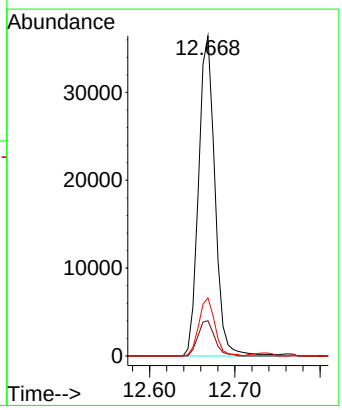


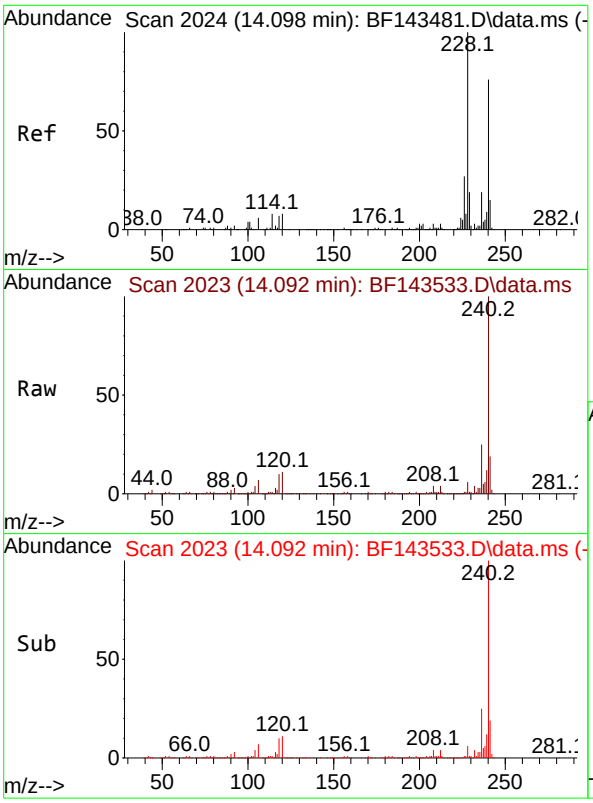


#75
Fluoranthene
Concen: 3.217 ng
RT: 12.668 min Scan# 1781
Delta R.T. -0.006 min
Lab File: BF143533.D
Acq: 21 Aug 2025 16:38

Tgt Ion:202 Resp: 48638

Ion	Ratio	Lower	Upper
202	100		
101	11.0	0.0	31.3
203	18.2	0.0	37.9



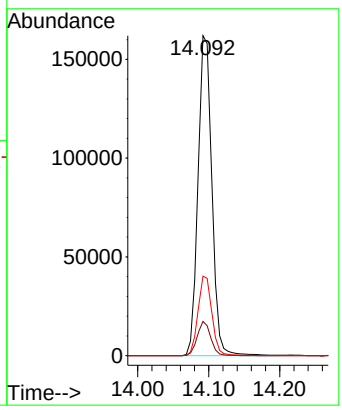


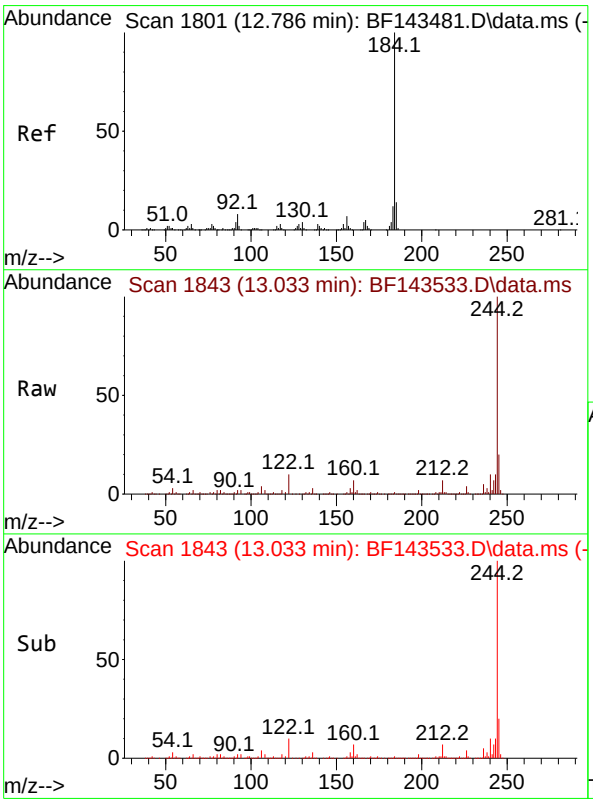
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.092 min Scan# 2(
Delta R.T. -0.012 min
Lab File: BF143533.D
Acq: 21 Aug 2025 16:38

Instrument :
BNA_F
ClientSampleId :
22BP-N

Tgt Ion:240 Resp: 220570

Ion	Ratio	Lower	Upper
240	100		
120	10.7	8.6	12.8
236	24.9	20.4	30.6

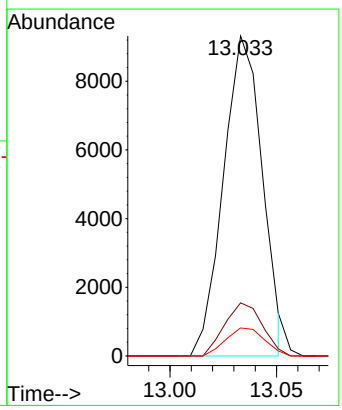


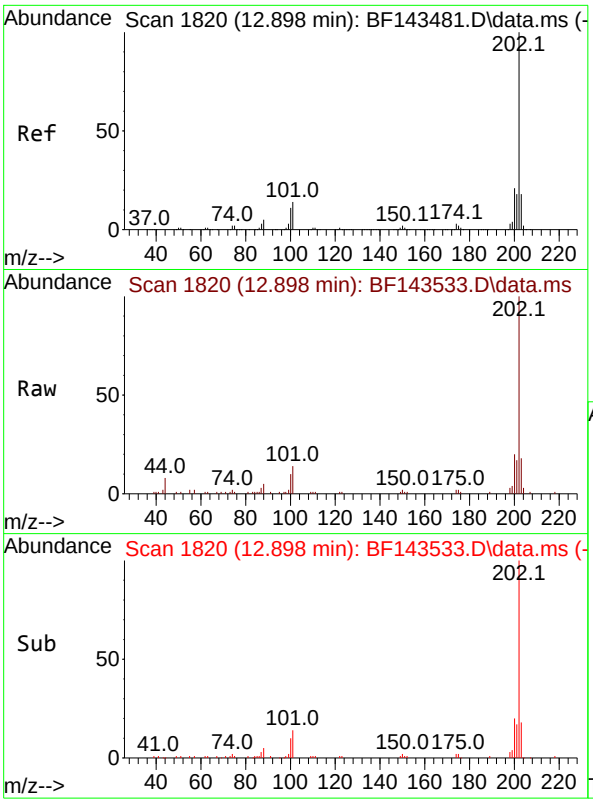


#77
Benzidine
Concen: 2.196 ng
RT: 13.033 min Scan# 1843
Delta R.T. 0.247 min
Lab File: BF143533.D
Acq: 21 Aug 2025 16:38

Tgt Ion:184 Resp: 11798

Ion	Ratio	Lower	Upper
184	100		
185	16.6	11.3	16.9
183	8.7	9.5	14.3#



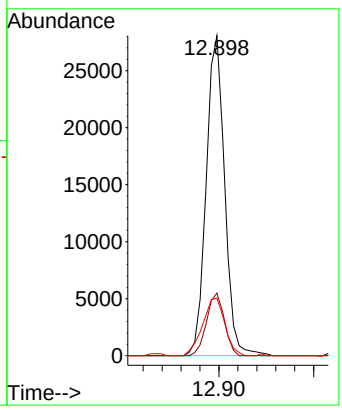


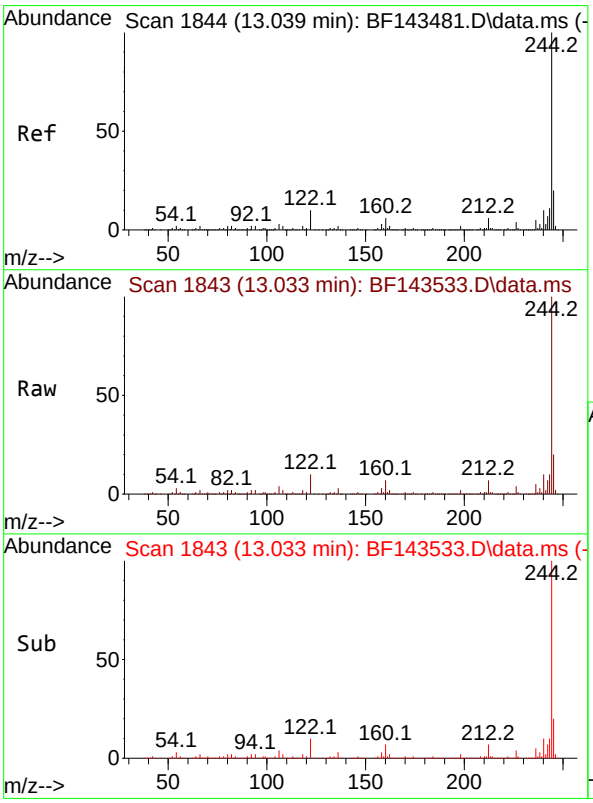
#78
Pyrene
Concen: 2.089 ng
RT: 12.898 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143533.D
Acq: 21 Aug 2025 16:38

Instrument :
BNA_F
ClientSampleId :
22BP-N

Tgt Ion:202 Resp: 37910

Ion	Ratio	Lower	Upper
202	100		
200	19.6	17.0	25.4
203	18.0	14.3	21.5

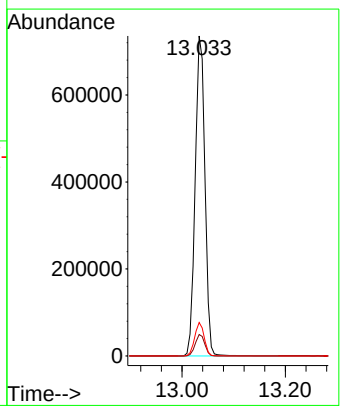


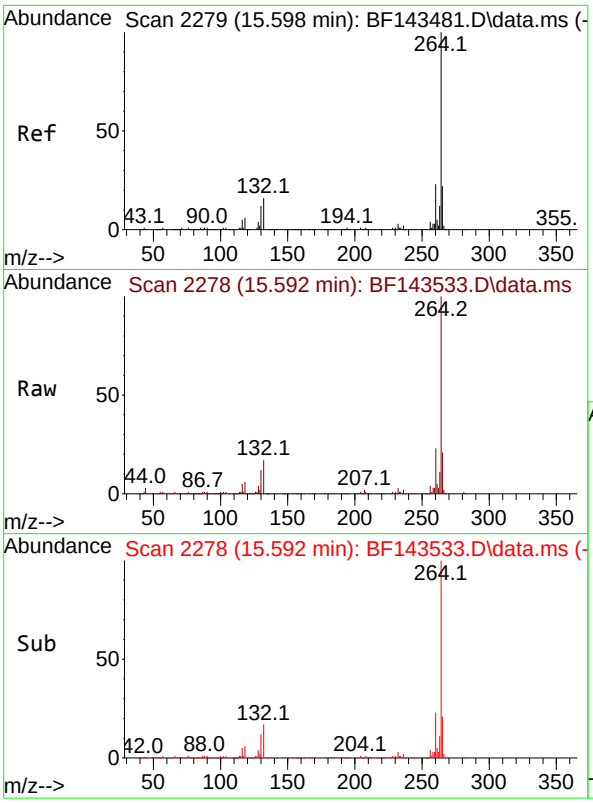


#79
Terphenyl-d14
Concen: 76.231 ng
RT: 13.033 min Scan# 1843
Delta R.T. -0.006 min
Lab File: BF143533.D
Acq: 21 Aug 2025 16:38

Tgt Ion:244 Resp: 963544

Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.2	7.8
122	10.4	7.9	11.9



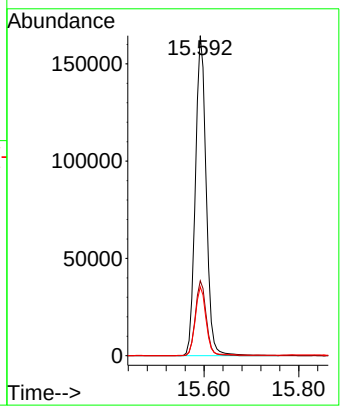


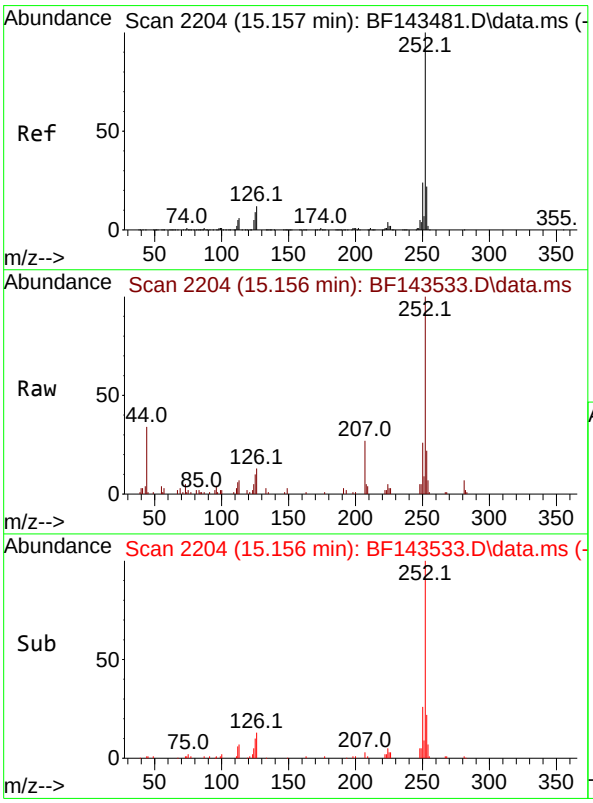
#86
Perylene-d12
Concen: 20.000 ng
RT: 15.592 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF143533.D
Acq: 21 Aug 2025 16:38

Instrument :
BNA_F
ClientSampleId :
22BP-N

Tgt Ion:264 Resp: 260684

Ion	Ratio	Lower	Upper
264	100		
260	23.4	18.7	28.1
265	21.5	17.6	26.4

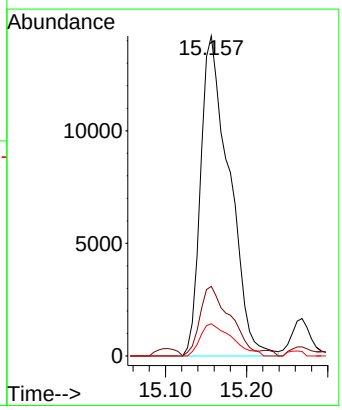


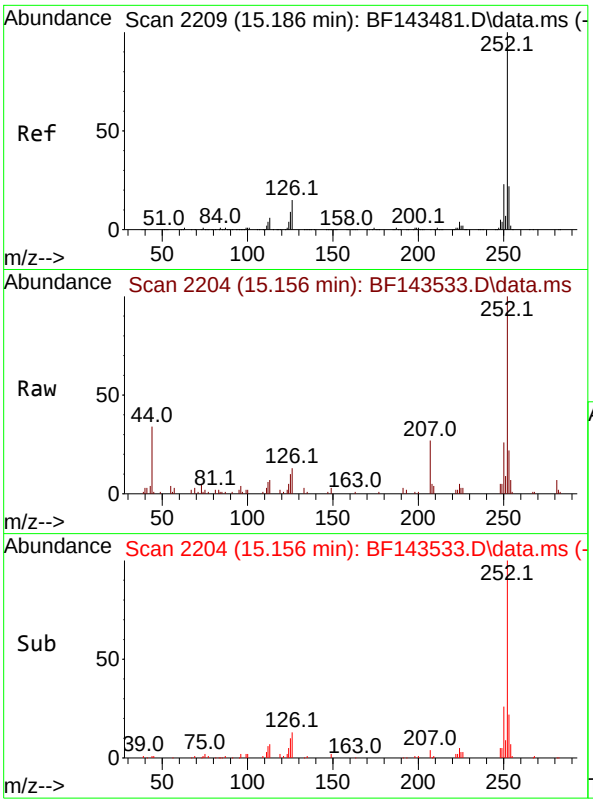


#88
Benzo(b)fluoranthene
Concen: 2.403 ng
RT: 15.156 min Scan# 2204
Delta R.T. -0.000 min
Lab File: BF143533.D
Acq: 21 Aug 2025 16:38

Tgt Ion:252 Resp: 34824

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.5	26.3
125	10.1	7.4	11.0



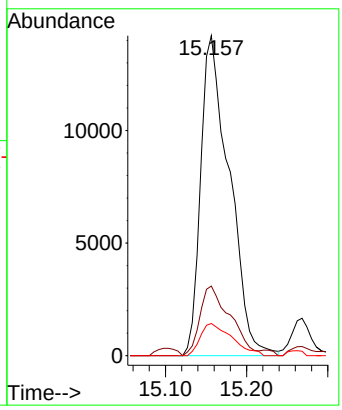


#89
Benzo(k)fluoranthene
Concen: 2.510 ng
RT: 15.156 min Scan# 2
Delta R.T. -0.035 min
Lab File: BF143533.D
Acq: 21 Aug 2025 16:38

Instrument :
BNA_F
ClientSampleId :
22BP-N

Tgt Ion:252 Resp: 34824

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.4	26.2
125	10.1	7.4	11.0



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081425\
Data File : BP025393.D
Acq On : 14 Aug 2025 13:15
Operator : CG/JU
Sample : SSTDICC005
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Quant Time: Aug 14 17:52:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 17:44:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.790	152	130958	20.000	ng		0.00
21) Naphthalene-d8	10.560	136	551384	20.000	ng		0.00
39) Acenaphthene-d10	14.401	164	392376	20.000	ng		0.00
64) Phenanthrene-d10	17.207	188	816331	20.000	ng		0.00
76) Chrysene-d12	21.654	240	858165	20.000	ng		0.00
86) Perylene-d12	25.036	264	963881	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.408	112	80645	10.227	ng		0.00
7) Phenol-d6	6.966	99	97106	9.605	ng		0.00
23) Nitrobenzene-d5	8.931	82	108814	9.983	ng		0.00
42) 2,4,6-Tribromophenol	15.913	330	52188	9.881	ng		0.00
45) 2-Fluorobiphenyl	13.019	172	305742	10.649	ng		0.00
79) Terphenyl-d14	19.925	244	536049	11.428	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.337	88	17016	5.509	ng		95
3) Pyridine	3.731	79	47347	5.600	ng		95
4) n-Nitrosodimethylamine	3.637	42	17697	5.077	ng	#	93
6) Aniline	7.119	93	68694	5.043	ng		100
8) 2-Chlorophenol	7.366	128	44217	4.969	ng		98
9) Benzaldehyde	6.943	77	35338	4.989	ng		99
10) Phenol	6.990	94	52186	4.919	ng		98
11) bis(2-Chloroethyl)ether	7.219	93	41995	5.079	ng		98
12) 1,3-Dichlorobenzene	7.684	146	50146	5.111	ng		96
13) 1,4-Dichlorobenzene	7.825	146	51948	5.180	ng		97
14) 1,2-Dichlorobenzene	8.143	146	50995	5.253	ng		96
15) Benzyl Alcohol	8.025	79	37874	4.715	ng		98
16) 2,2'-oxybis(1-Chloropr...	8.313	45	57686	5.208	ng		98
17) 2-Methylphenol	8.225	107	35186	4.776	ng		96
18) Hexachloroethane	8.866	117	18905	5.127	ng		99
19) n-Nitroso-di-n-propyla...	8.584	70	34898	5.205	ng		95
20) 3+4-Methylphenols	8.549	107	48056	4.705	ng		97
22) Acetophenone	8.602	105	70986	5.134	ng	#	96
24) Nitrobenzene	8.972	77	48234	4.951	ng		99
25) Isophorone	9.496	82	101112	5.242	ng		98
26) 2-Nitrophenol	9.678	139	23020	4.605	ng		95
27) 2,4-Dimethylphenol	9.737	122	41790	4.861	ng		99
28) bis(2-Chloroethoxy)met...	9.972	93	61017	5.233	ng		98
29) 2,4-Dichlorophenol	10.213	162	40336	4.723	ng		94
30) 1,2,4-Trichlorobenzene	10.425	180	49237	5.259	ng		97
31) Naphthalene	10.613	128	147346	5.141	ng		99
32) Benzoic acid	9.807	122	17656	2.788	ng		84
33) 4-Chloroaniline	10.713	127	62452	4.933	ng		96
34) Hexachlorobutadiene	10.902	225	30559	5.241	ng		95
35) Caprolactam	11.466	113	16890	5.393	ng	#	84
36) 4-Chloro-3-methylphenol	11.837	107	50515	5.154	ng		91
37) 2-Methylnaphthalene	12.219	142	98648	5.289	ng		97
38) 1-Methylnaphthalene	12.437	142	107044	5.397	ng		97
40) 1,2,4,5-Tetrachloroben...	12.590	216	56676	5.001	ng		100
41) Hexachlorocyclopentadiene	12.572	237	25243	3.688	ng		97
43) 2,4,6-Trichlorophenol	12.831	196	36093	4.718	ng		95

Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081425\
Data File : BP025393.D
Acq On : 14 Aug 2025 13:15
Operator : CG/JU
Sample : SSTDICC005
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Quant Time: Aug 14 17:52:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 17:44:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	12.901	196	40875	4.875	ng		95
46) 1,1'-Biphenyl	13.237	154	146651	5.146	ng		98
47) 2-Chloronaphthalene	13.272	162	113015	5.094	ng		99
48) 2-Nitroaniline	13.466	65	29527	4.568	ng		98
49) Acenaphthylene	14.125	152	187026	5.095	ng		99
50) Dimethylphthalate	13.860	163	153868	5.355	ng		99
51) 2,6-Dinitrotoluene	13.966	165	29088	4.803	ng		94
52) Acenaphthene	14.472	154	117653	5.460	ng		97
53) 3-Nitroaniline	14.301	138	31224	4.583	ng		85
54) 2,4-Dinitrophenol	14.513	184	10441	3.228	ng	#	87
55) Dibenzofuran	14.813	168	178494	5.240	ng		99
56) 4-Nitrophenol	14.625	139	24517	4.379	ng		96
57) 2,4-Dinitrotoluene	14.760	165	39658	4.590	ng		94
58) Fluorene	15.472	166	147760	5.497	ng		97
59) 2,3,4,6-Tetrachlorophenol	15.037	232	36779	4.968	ng		99
60) Diethylphthalate	15.237	149	158426	5.426	ng		99
61) 4-Chlorophenyl-phenyle...	15.466	204	74636	5.583	ng		99
62) 4-Nitroaniline	15.478	138	33466	4.791	ng		90
63) Azobenzene	15.760	77	128978	5.159	ng		99
65) 4,6-Dinitro-2-methylph...	15.543	198	19069	3.747	ng		92
66) n-Nitrosodiphenylamine	15.678	169	129805	5.214	ng		97
67) 4-Bromophenyl-phenylether	16.378	248	47579	5.299	ng		98
68) Hexachlorobenzene	16.501	284	53940	5.183	ng		98
69) Atrazine	16.648	200	46750	5.015	ng		96
70) Pentachlorophenol	16.854	266	29650	4.513	ng		96
71) Phenanthrene	17.248	178	237107	5.287	ng		98
72) Anthracene	17.342	178	236938	5.174	ng		99
73) Carbazole	17.619	167	220112	5.103	ng		98
74) Di-n-butylphthalate	18.231	149	274467	5.172	ng		99
75) Fluoranthene	19.336	202	279497	5.225	ng		99
77) Benzidine	19.525	184	123915	4.231	ng		99
78) Pyrene	19.713	202	299922	5.377	ng		98
80) Butylbenzylphthalate	20.654	149	126321	4.997	ng		99
81) Benzo(a)anthracene	21.636	228	296847	5.245	ng		100
82) 3,3'-Dichlorobenzidine	21.548	252	106858	5.009	ng		99
83) Chrysene	21.701	228	277175	5.229	ng		99
84) Bis(2-ethylhexyl)phtha...	21.583	149	194541	5.228	ng		97
85) Di-n-octyl phthalate	22.877	149	313503	4.898	ng		99
87) Indeno(1,2,3-cd)pyrene	28.865	276	350414	4.956	ng		98
88) Benzo(b)fluoranthene	23.960	252	289797	5.099	ng		99
89) Benzo(k)fluoranthene	24.042	252	289556	5.091	ng		98
90) Benzo(a)pyrene	24.877	252	274440	4.960	ng		99
91) Dibenzo(a,h)anthracene	28.942	278	284440	4.924	ng		100
92) Benzo(g,h,i)perylene	30.036	276	279987	4.931	ng		97

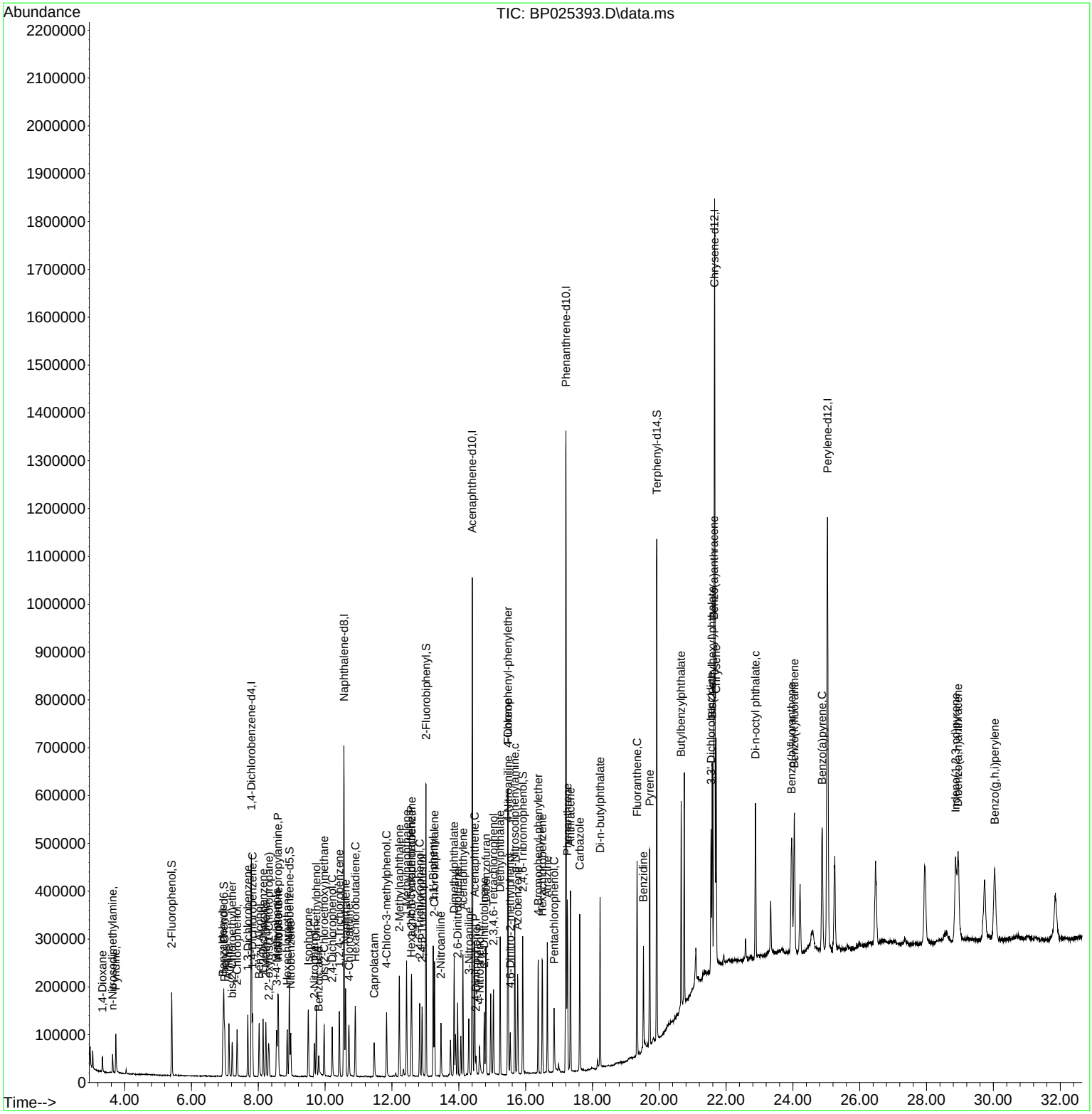
(#) = qualifier out of range (m) = manual integration (+) = signals summed

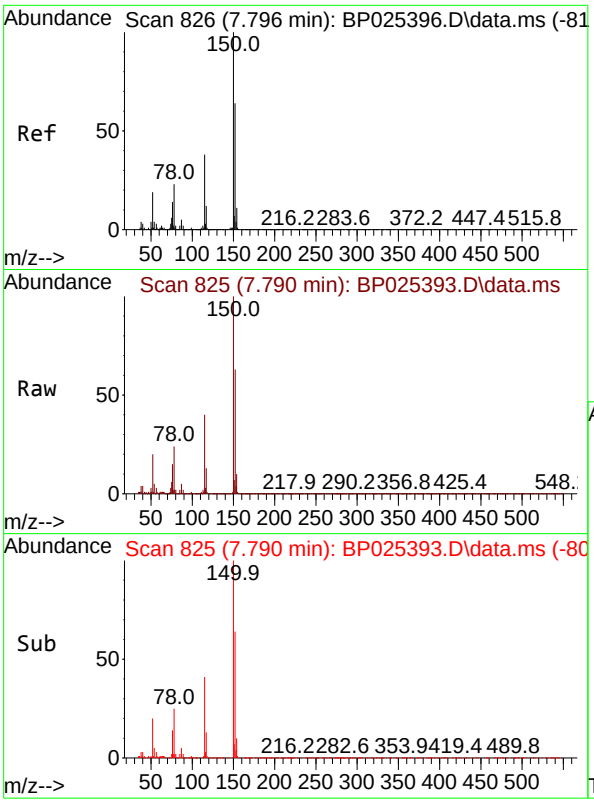
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081425\
Data File : BP025393.D
Acq On : 14 Aug 2025 13:15
Operator : CG/JU
Sample : SSTDICC005
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Quant Time: Aug 14 17:52:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 17:44:43 2025
Response via : Initial Calibration



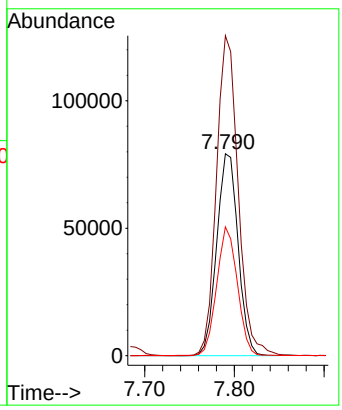


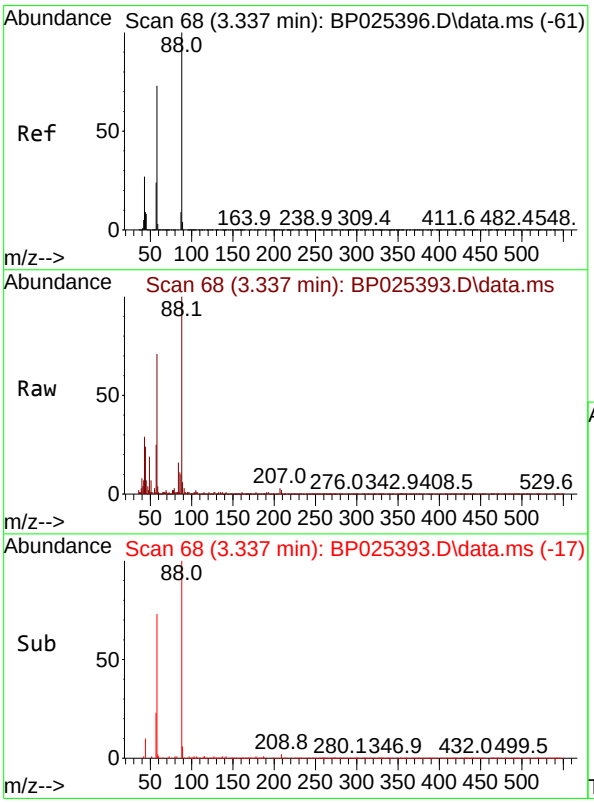
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.790 min Scan# 8
Delta R.T. -0.006 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:152 Resp: 130958

Ion	Ratio	Lower	Upper
152	100		
150	158.5	125.9	188.9
115	63.8	48.5	72.7

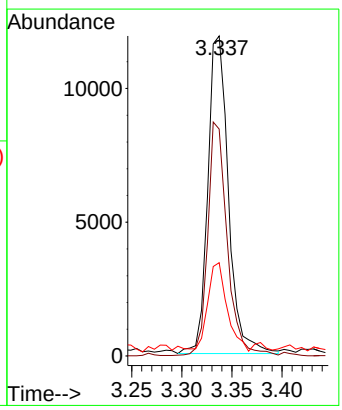


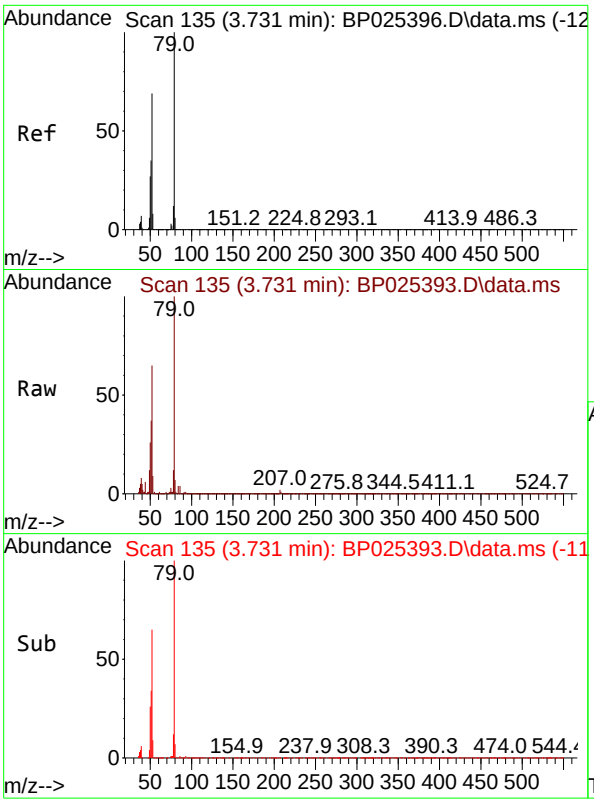


#2
1,4-Dioxane
Concen: 5.509 ng
RT: 3.337 min Scan# 68
Delta R.T. 0.000 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion: 88 Resp: 17016

Ion	Ratio	Lower	Upper
88	100		
58	69.1	59.2	88.8
43	26.1	21.7	32.5



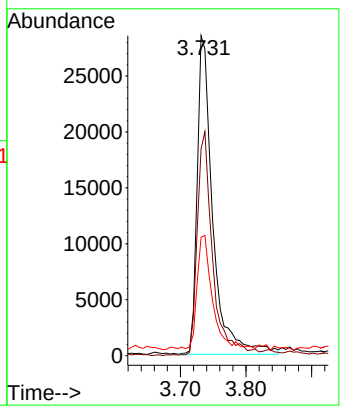


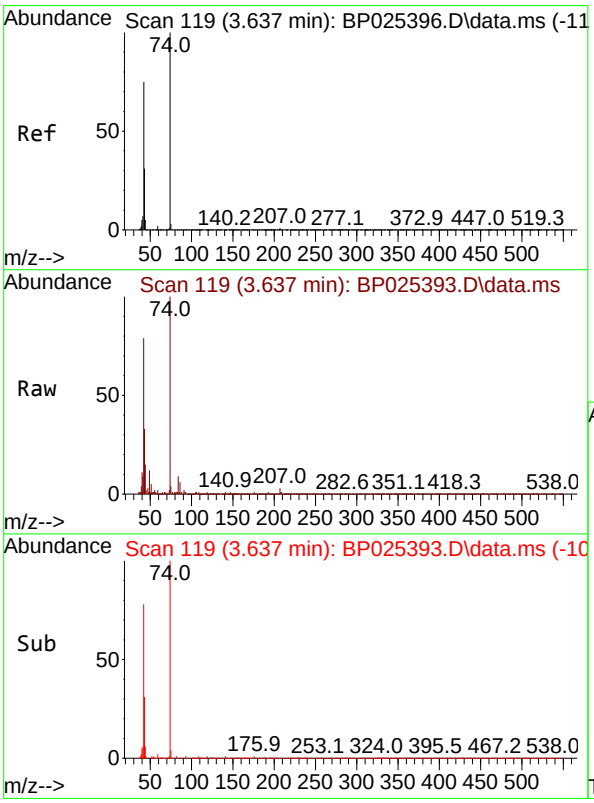
#3
Pyridine
Concen: 5.600 ng
RT: 3.731 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion: 79 Resp: 47347

Ion	Ratio	Lower	Upper
79	100		
52	64.7	55.5	83.3
51	37.0	28.3	42.5

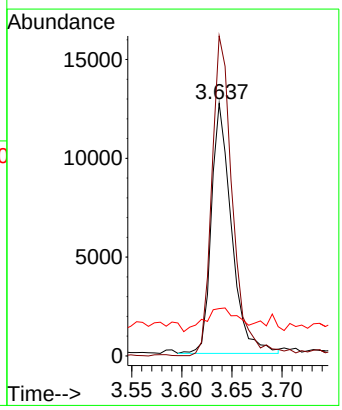


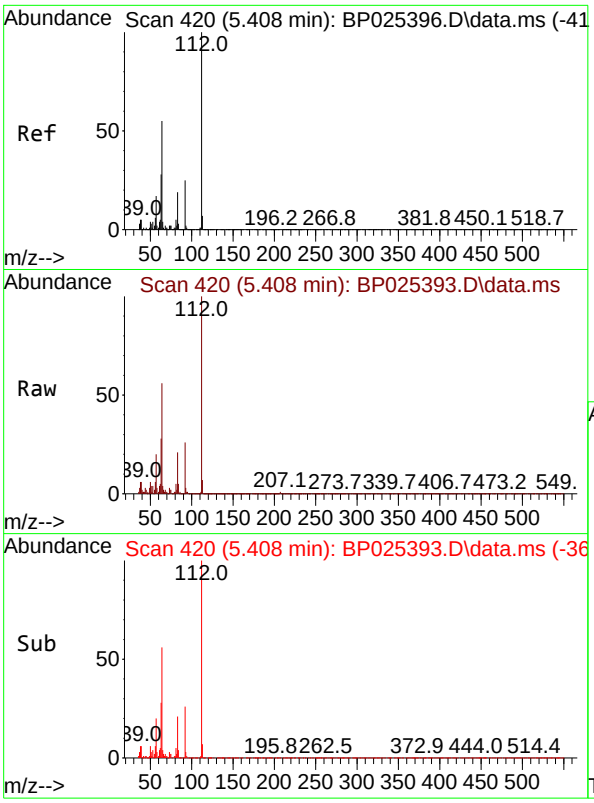


#4
n-Nitrosodimethylamine
Concen: 5.077 ng
RT: 3.637 min Scan# 119
Delta R.T. 0.000 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion: 42 Resp: 17697

Ion	Ratio	Lower	Upper
42	100		
74	126.7	107.0	160.4
44	18.7	6.2	9.4#



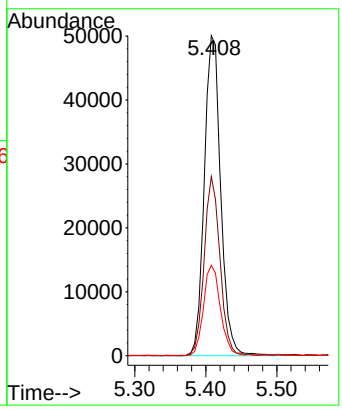


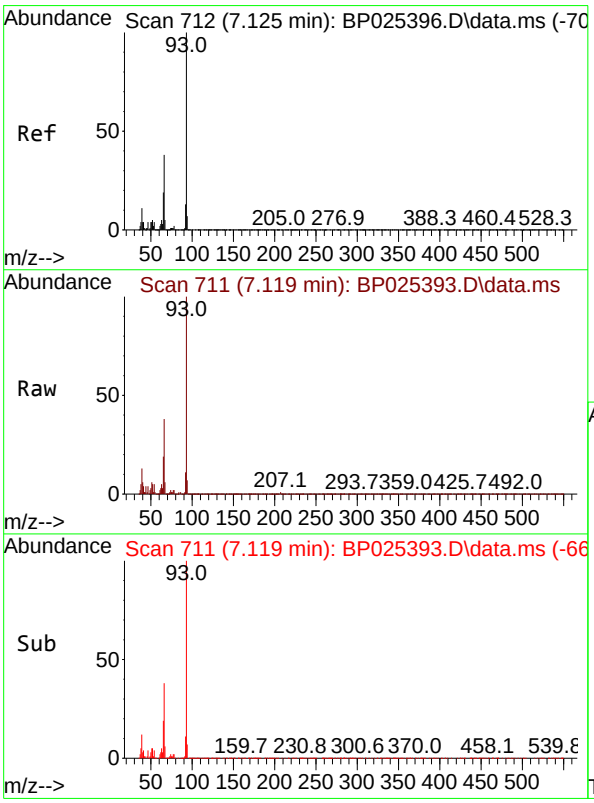
#5
2-Fluorophenol
Concen: 10.227 ng
RT: 5.408 min Scan# 4
Delta R.T. 0.000 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:112 Resp: 80645

Ion	Ratio	Lower	Upper
112	100		
64	55.9	43.8	65.8
63	28.3	22.7	34.1

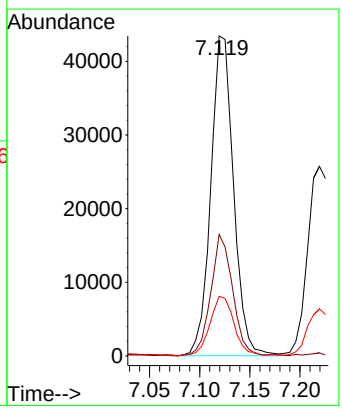


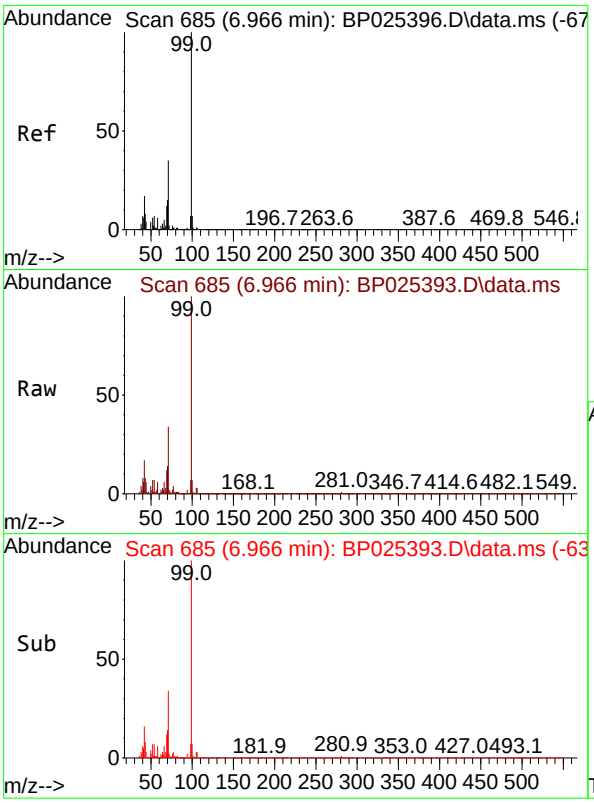


#6
Aniline
Concen: 5.043 ng
RT: 7.119 min Scan# 711
Delta R.T. -0.006 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion: 93 Resp: 68694

Ion	Ratio	Lower	Upper
93	100		
66	38.0	30.4	45.6
65	18.6	15.3	22.9



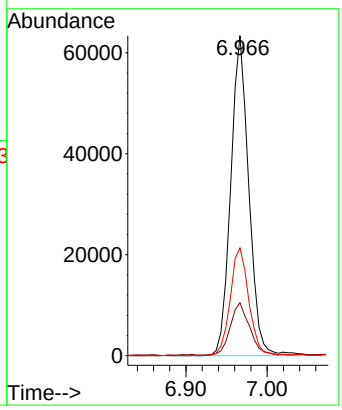


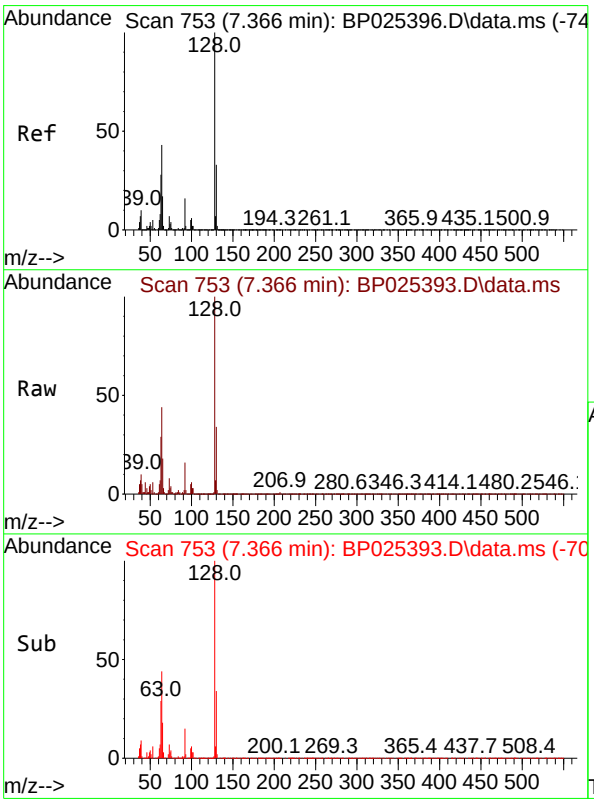
#7
Phenol-d6
Concen: 9.605 ng
RT: 6.966 min Scan# 6
Delta R.T. 0.000 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion: 99 Resp: 97106

Ion	Ratio	Lower	Upper
99	100		
42	16.5	13.7	20.5
71	33.7	28.2	42.4

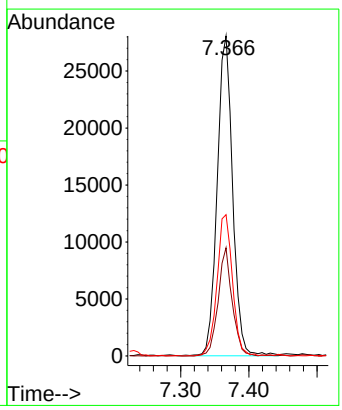


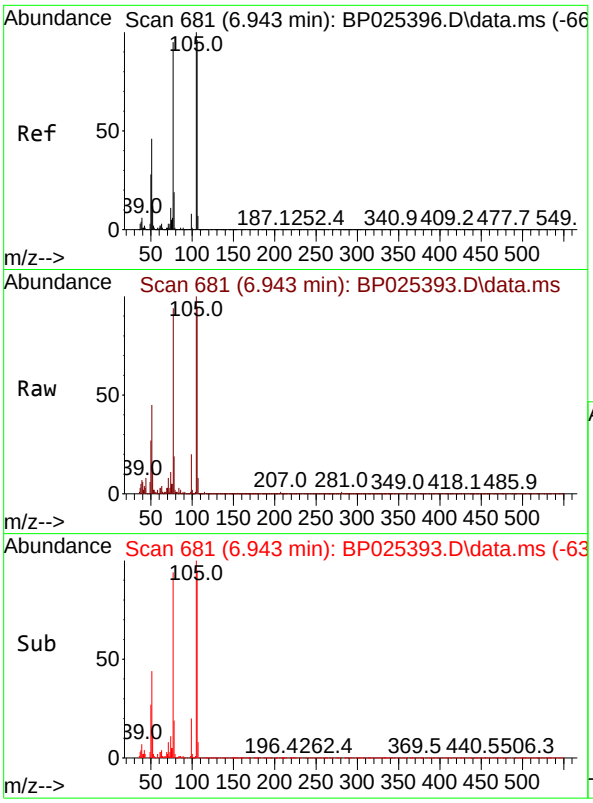


#8
2-Chlorophenol
Concen: 4.969 ng
RT: 7.366 min Scan# 753
Delta R.T. 0.000 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:128 Resp: 44217

Ion	Ratio	Lower	Upper
128	100		
130	33.8	12.6	52.6
64	44.1	23.4	63.4



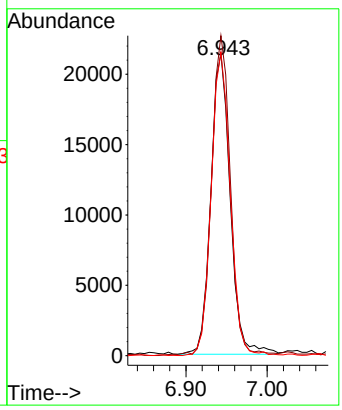


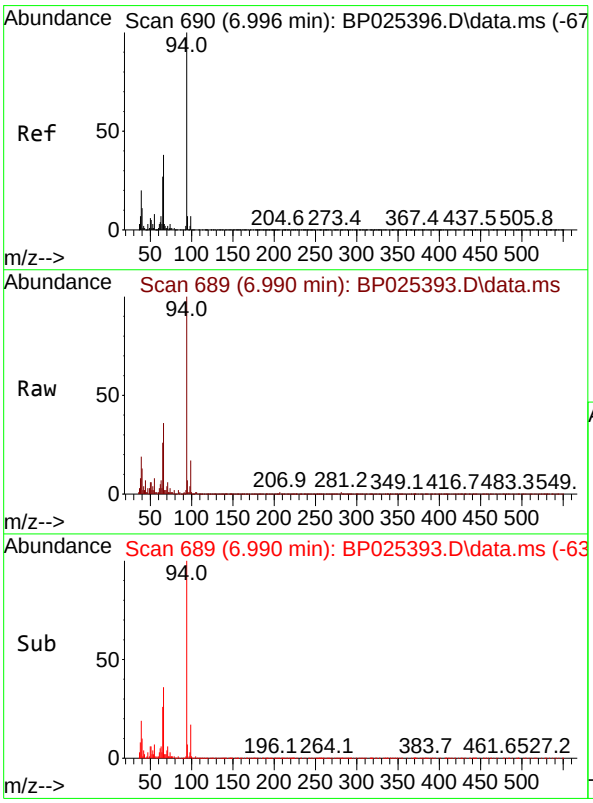
#9
Benzaldehyde
Concen: 4.989 ng
RT: 6.943 min Scan# 6
Delta R.T. 0.000 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion: 77 Resp: 35338

Ion	Ratio	Lower	Upper
77	100		
105	105.9	84.8	124.8
106	100.5	80.5	120.5

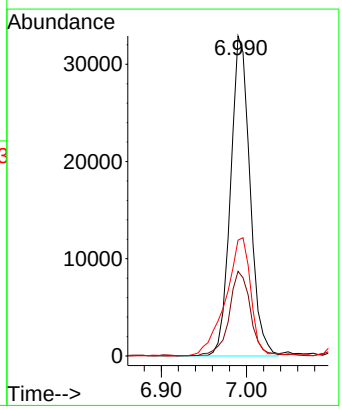


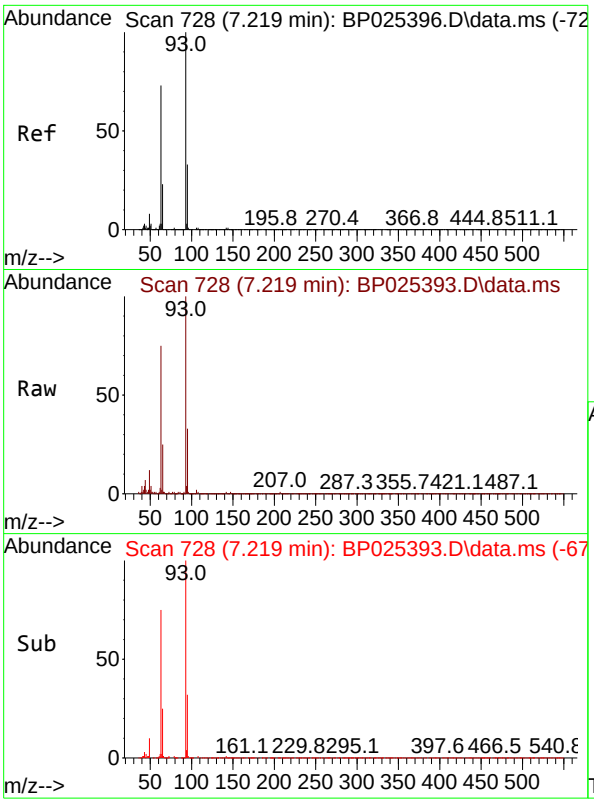


#10
Phenol
Concen: 4.919 ng
RT: 6.990 min Scan# 689
Delta R.T. -0.006 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion: 94 Resp: 52186

Ion	Ratio	Lower	Upper
94	100		
65	26.5	6.8	46.8
66	36.2	18.2	58.2



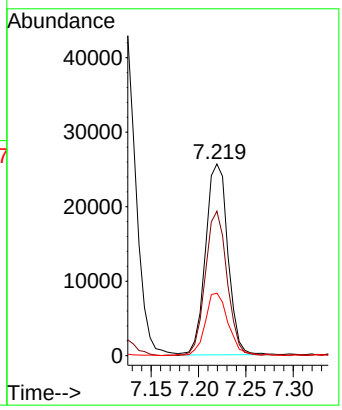


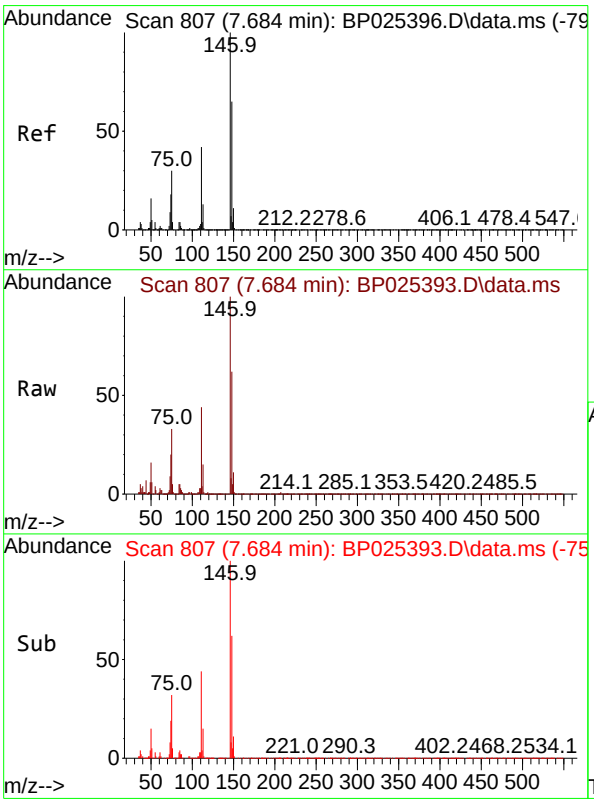
#11
bis(2-Chloroethyl)ether
Concen: 5.079 ng
RT: 7.219 min Scan# 7
Delta R.T. 0.000 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion: 93 Resp: 41995

Ion	Ratio	Lower	Upper
93	100		
63	75.4	52.6	92.6
95	32.6	12.7	52.7

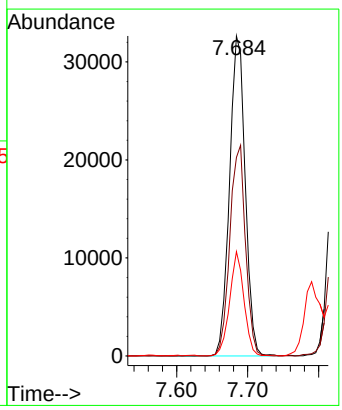


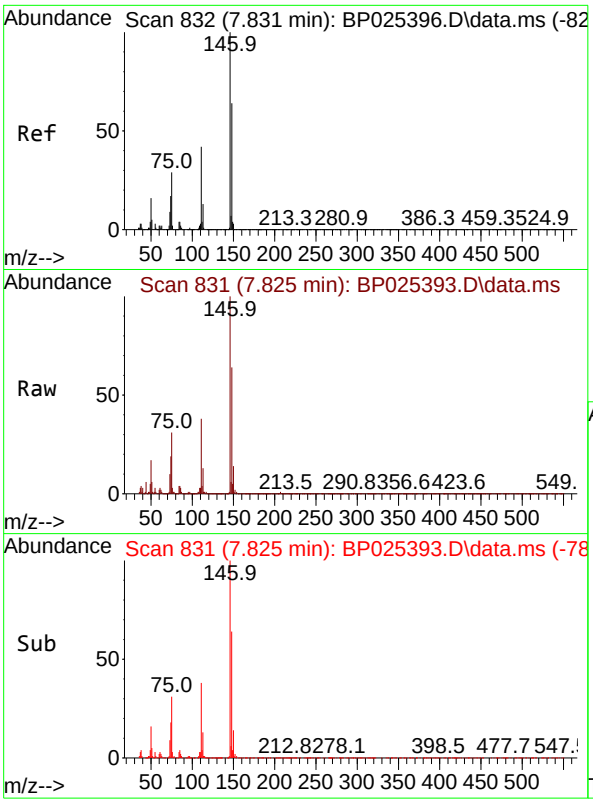


#12
1,3-Dichlorobenzene
Concen: 5.111 ng
RT: 7.684 min Scan# 807
Delta R.T. 0.000 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:146 Resp: 50146

Ion	Ratio	Lower	Upper
146	100		
148	62.1	51.9	77.9
75	32.6	23.7	35.5



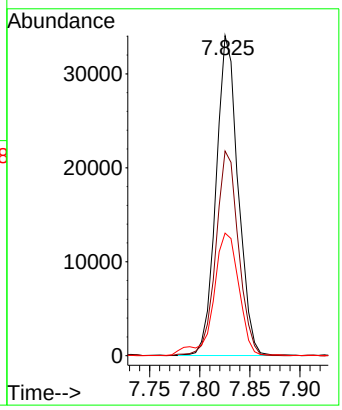


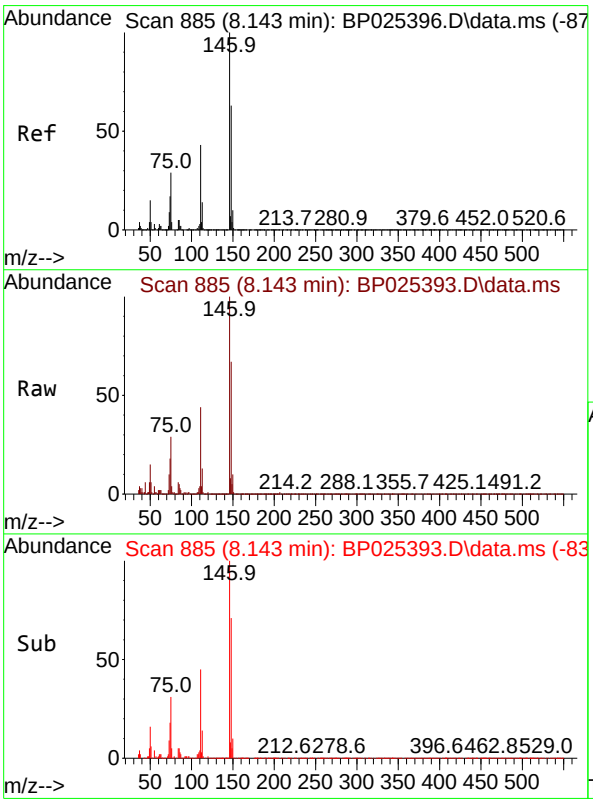
#13
1,4-Dichlorobenzene
Concen: 5.180 ng
RT: 7.825 min Scan# 8
Delta R.T. -0.006 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:146 Resp: 51948

Ion	Ratio	Lower	Upper
146	100		
148	64.0	51.6	77.4
111	38.3	33.4	50.0

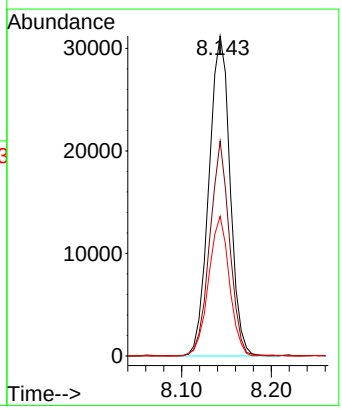


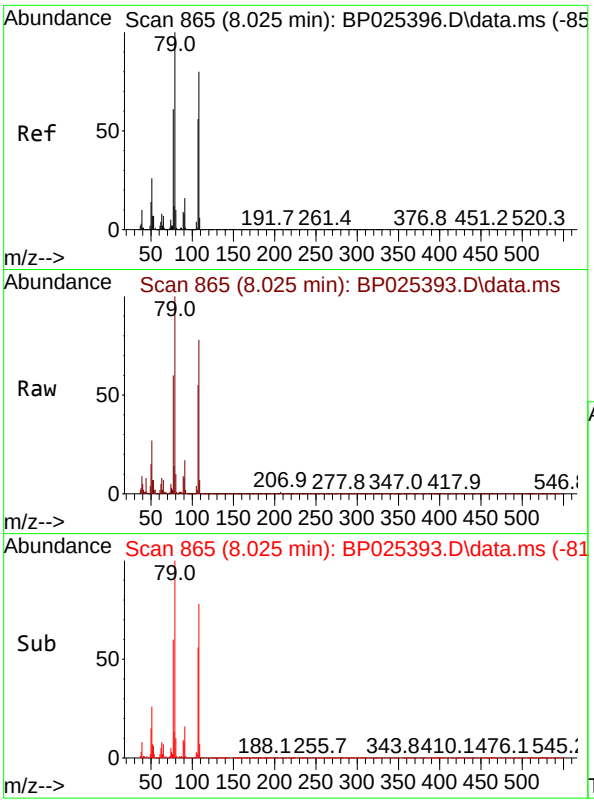


#14
1,2-Dichlorobenzene
Concen: 5.253 ng
RT: 8.143 min Scan# 885
Delta R.T. 0.000 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:146 Resp: 50995

Ion	Ratio	Lower	Upper
146	100		
148	67.2	50.4	75.6
111	43.7	34.5	51.7



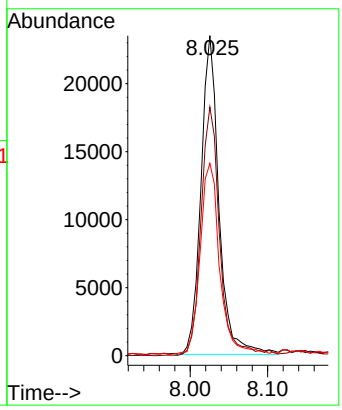


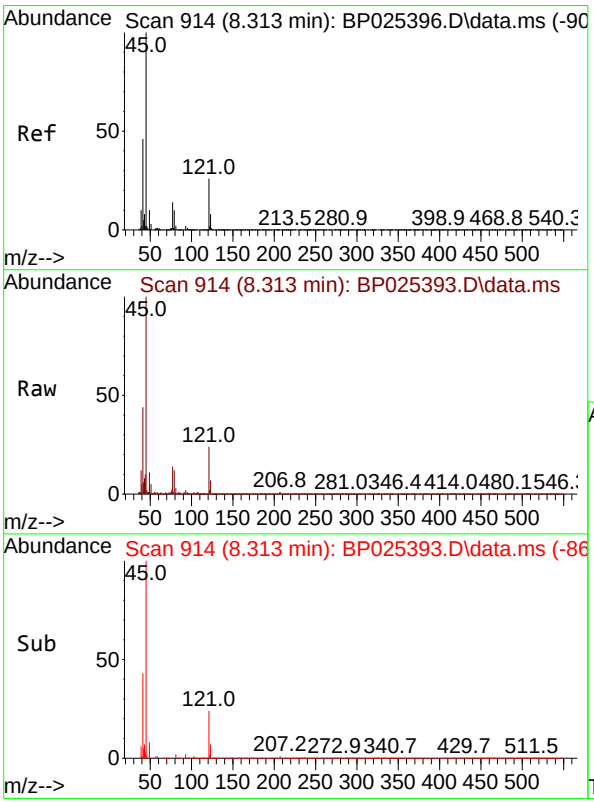
#15
Benzyl Alcohol
Concen: 4.715 ng
RT: 8.025 min Scan# 8
Delta R.T. 0.000 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion: 79 Resp: 37874

Ion	Ratio	Lower	Upper
79	100		
108	77.7	63.8	95.6
77	60.1	49.0	73.4

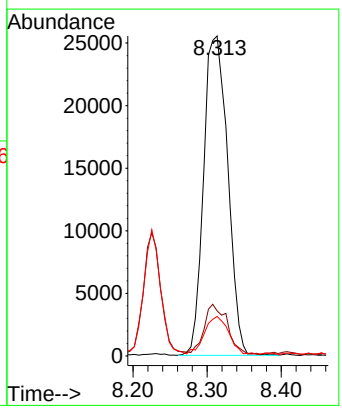


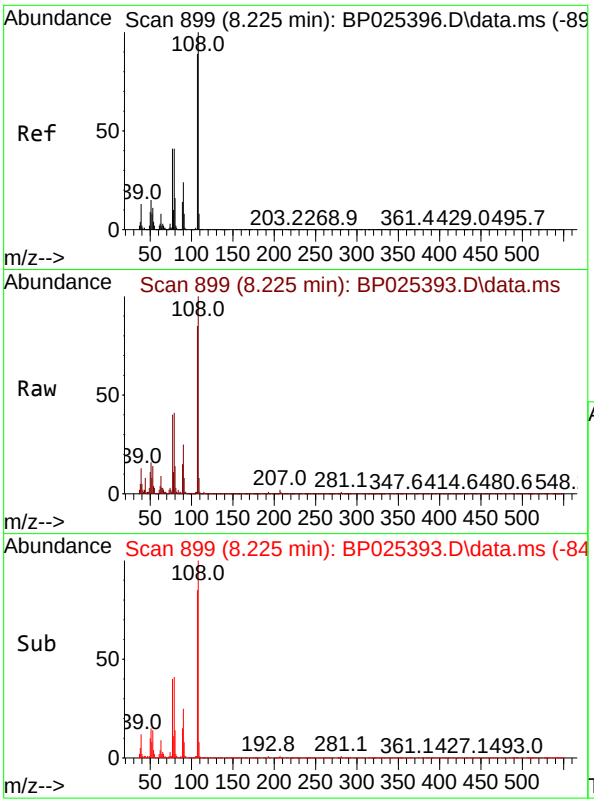


#16
2,2'-oxybis(1-Chloropropane)
Concen: 5.208 ng
RT: 8.313 min Scan# 914
Delta R.T. 0.000 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion: 45 Resp: 57686

Ion	Ratio	Lower	Upper
45	100		
77	14.1	0.0	35.3
79	12.4	0.0	31.8



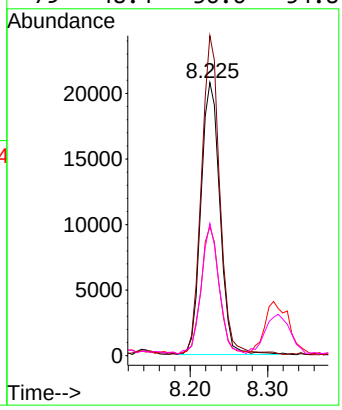


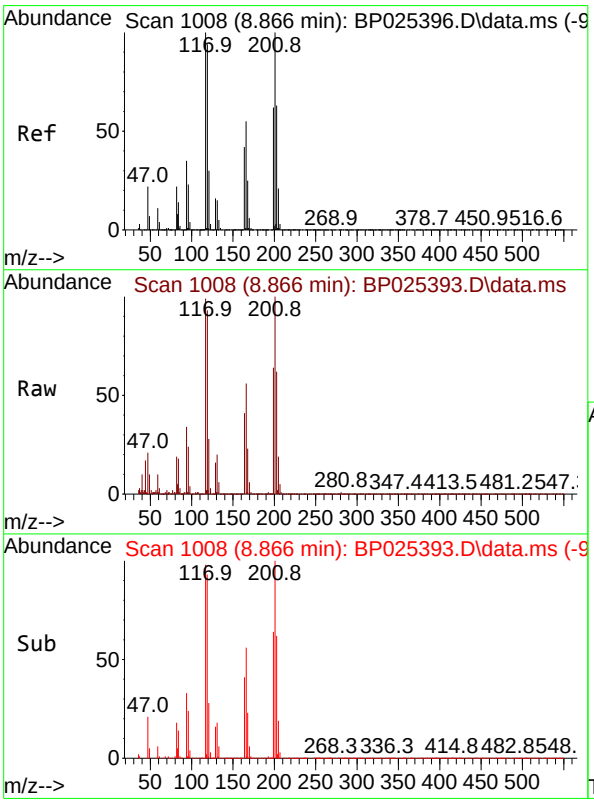
#17
2-Methylphenol
Concen: 4.776 ng
RT: 8.225 min Scan# 8
Delta R.T. 0.000 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:107 Resp: 35186

Ion	Ratio	Lower	Upper
107	100		
108	117.2	89.4	134.0
77	47.2	36.3	54.5
79	48.4	36.6	54.8

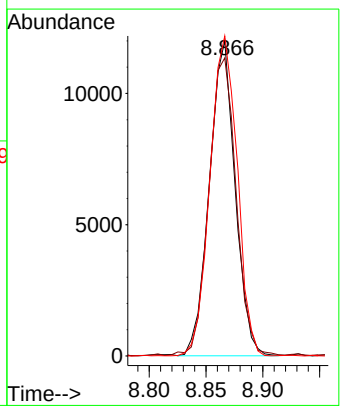


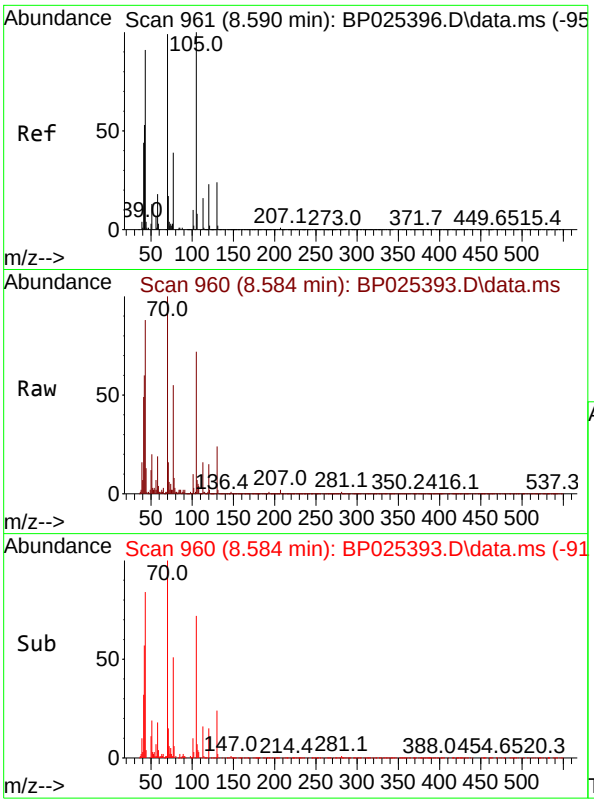


#18
Hexachloroethane
Concen: 5.127 ng
RT: 8.866 min Scan# 1008
Delta R.T. 0.000 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:117 Resp: 18905

Ion	Ratio	Lower	Upper
117	100		
119	94.5	75.1	112.7
201	101.5	80.1	120.1



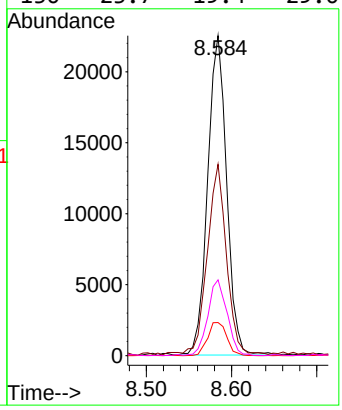


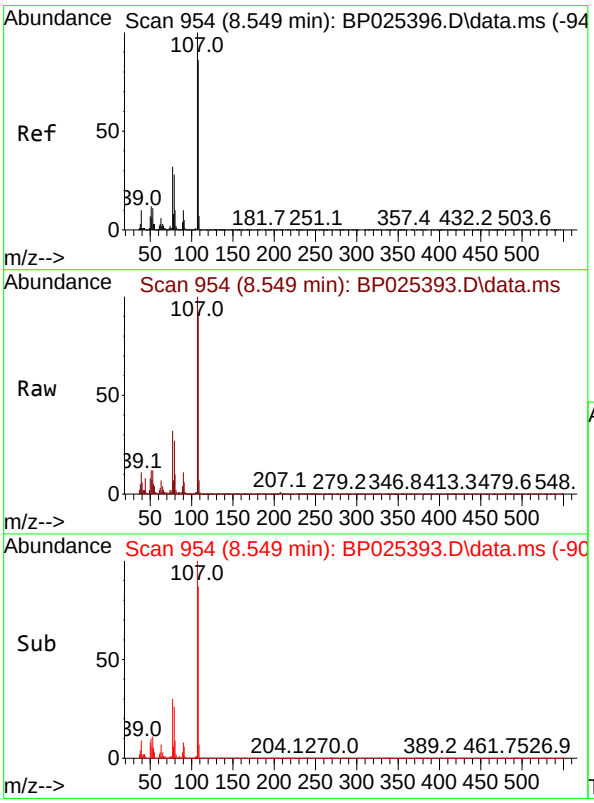
#19
n-Nitroso-di-n-propylamine
Concen: 5.205 ng
RT: 8.584 min Scan# 9
Delta R.T. -0.006 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion: 70 Resp: 34898

Ion	Ratio	Lower	Upper
70	100		
42	59.8	43.8	65.6
101	10.3	8.5	12.7
130	23.7	19.4	29.0

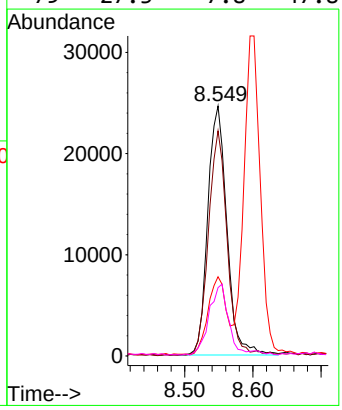


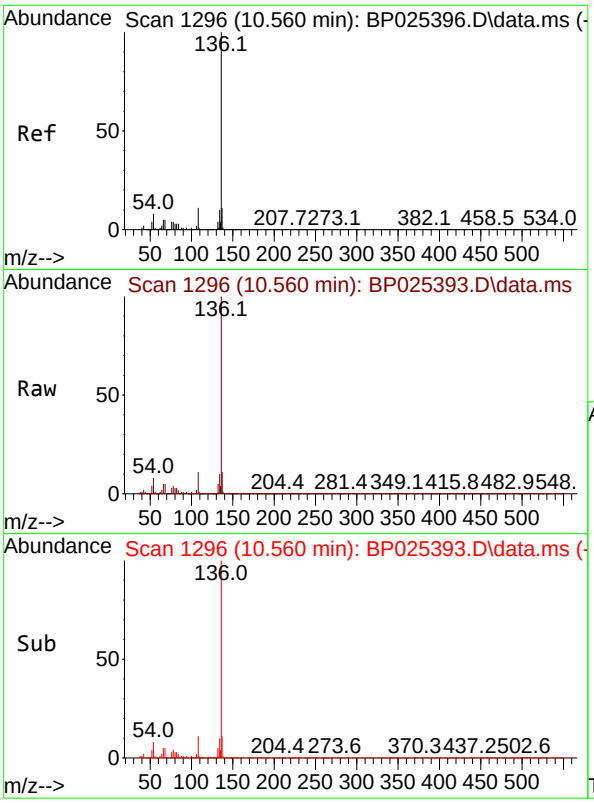


#20
3+4-Methylphenols
Concen: 4.705 ng
RT: 8.549 min Scan# 954
Delta R.T. 0.000 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:107 Resp: 48056

Ion	Ratio	Lower	Upper
107	100		
108	90.0	66.3	106.3
77	31.7	12.3	52.3
79	27.3	7.8	47.8



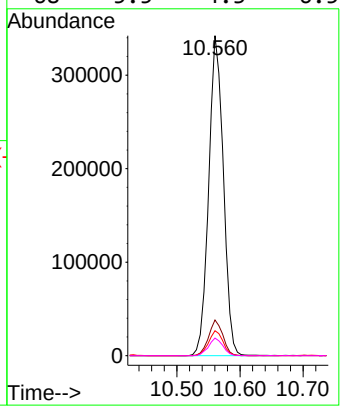


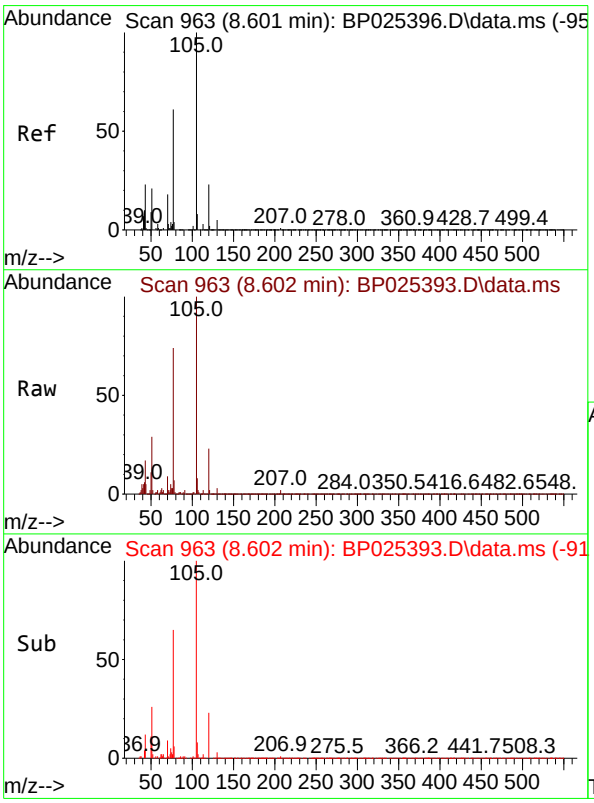
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.560 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:136 Resp: 551384

Ion	Ratio	Lower	Upper
136	100		
137	11.2	9.2	13.8
54	7.8	6.0	9.0
68	5.5	4.3	6.5

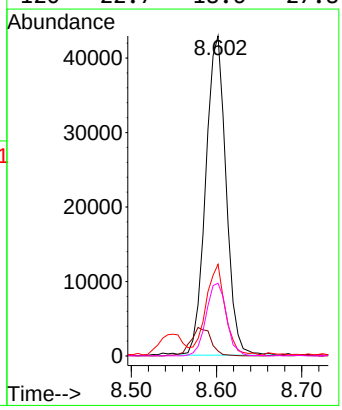


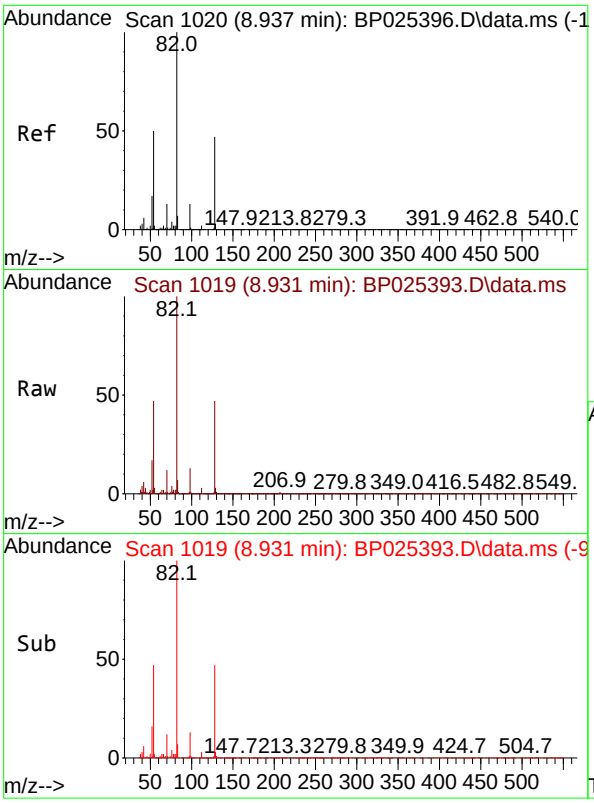


#22
Acetophenone
Concen: 5.134 ng
RT: 8.602 min Scan# 963
Delta R.T. 0.000 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:105 Resp: 70986

Ion	Ratio	Lower	Upper
105	100		
71	1.5	2.6	4.0#
51	28.7	20.6	30.8
120	22.7	18.6	27.8



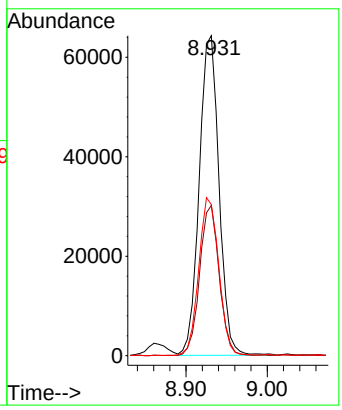


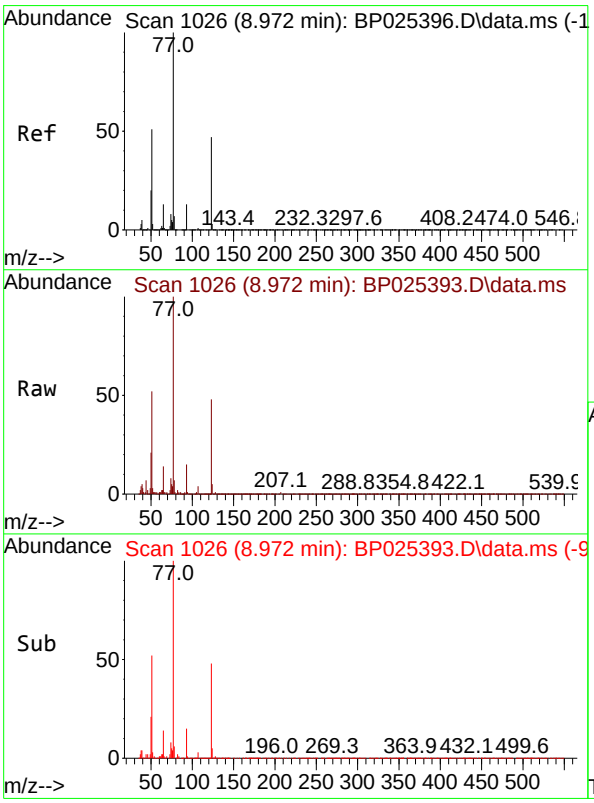
#23
Nitrobenzene-d5
Concen: 9.983 ng
RT: 8.931 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion: 82 Resp: 108814

Ion	Ratio	Lower	Upper
82	100		
128	47.0	37.7	56.5
54	47.2	39.8	59.6

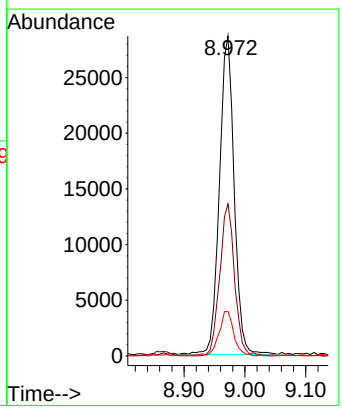


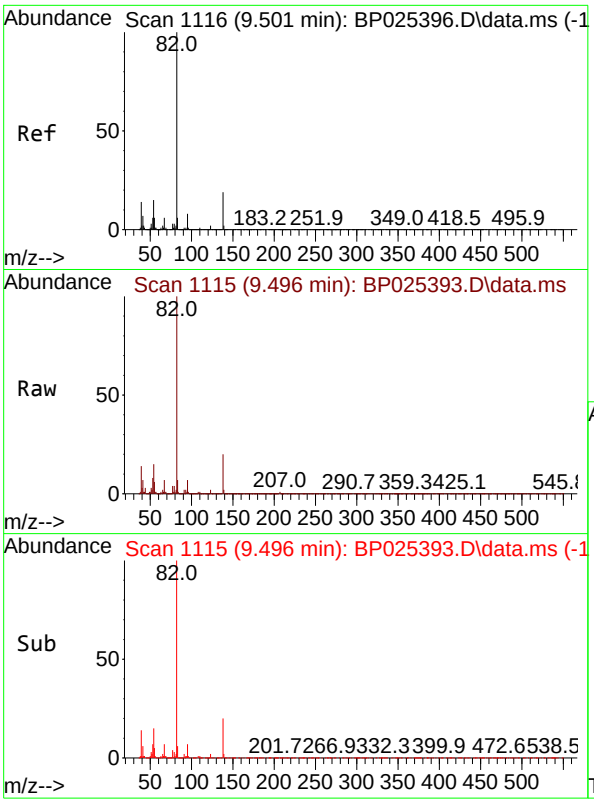


#24
Nitrobenzene
Concen: 4.951 ng
RT: 8.972 min Scan# 1026
Delta R.T. 0.000 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion: 77 Resp: 48234

Ion	Ratio	Lower	Upper
77	100		
123	47.6	38.6	58.0
65	13.9	10.6	15.8



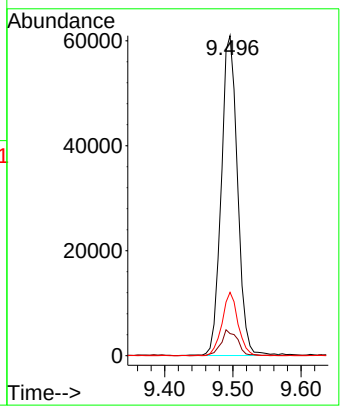


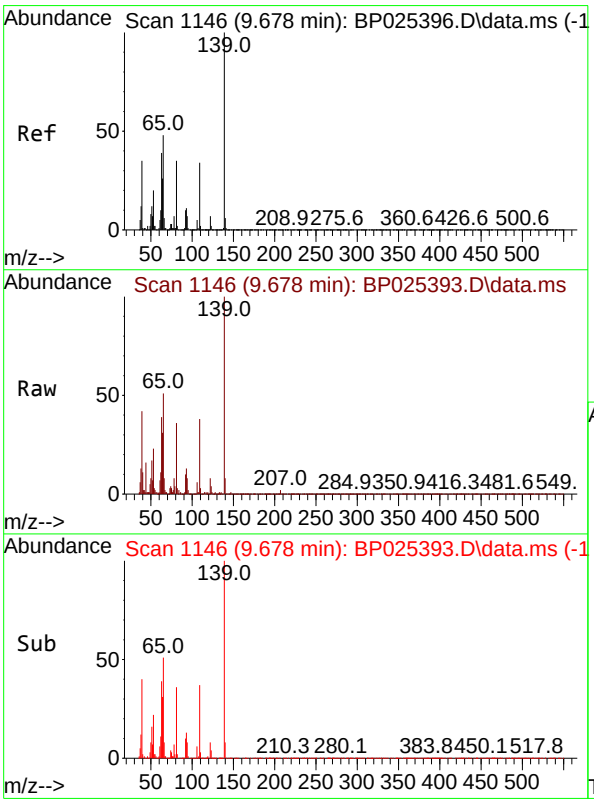
#25
Isophorone
Concen: 5.242 ng
RT: 9.496 min Scan# 11
Delta R.T. -0.006 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion: 82 Resp: 101112

Ion	Ratio	Lower	Upper
82	100		
95	6.9	6.4	9.6
138	19.8	15.4	23.0

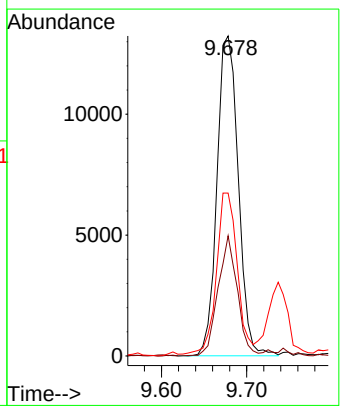


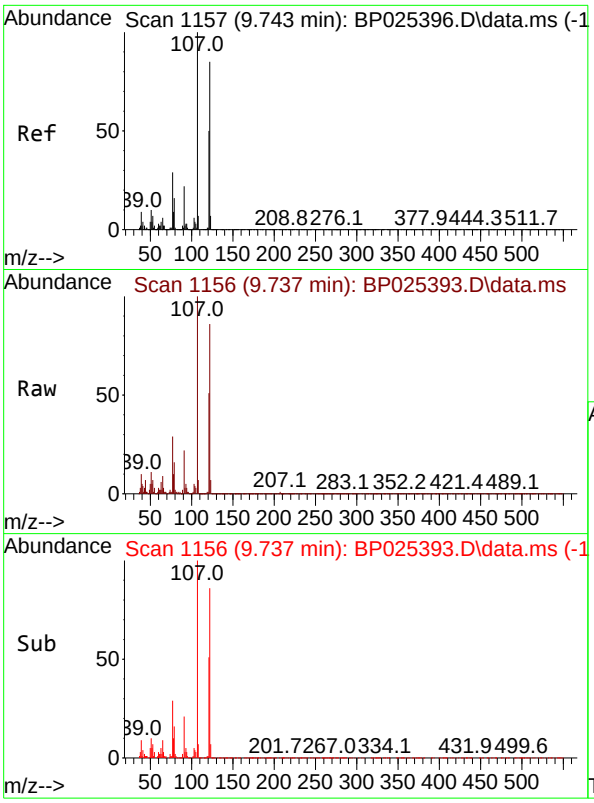


#26
2-Nitrophenol
Concen: 4.605 ng
RT: 9.678 min Scan# 1146
Delta R.T. 0.000 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:139 Resp: 23020

Ion	Ratio	Lower	Upper
139	100		
109	37.5	26.9	40.3
65	50.9	38.3	57.5



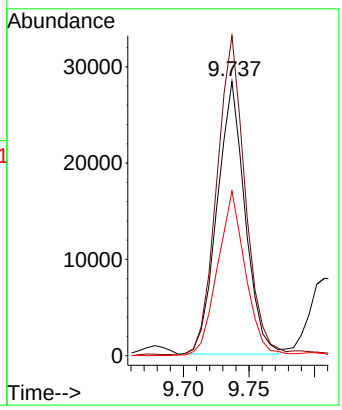


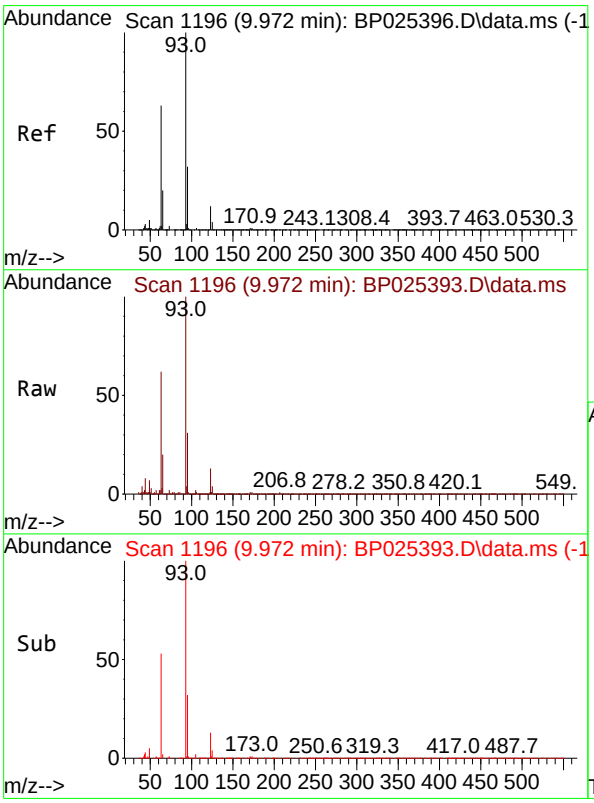
#27
2,4-Dimethylphenol
Concen: 4.861 ng
RT: 9.737 min Scan# 11
Delta R.T. -0.006 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:122 Resp: 41790

Ion	Ratio	Lower	Upper
122	100		
107	116.7	93.7	140.5
121	60.0	46.6	69.8

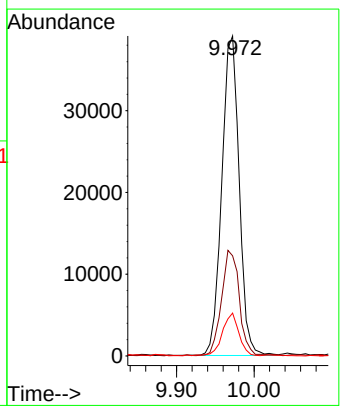


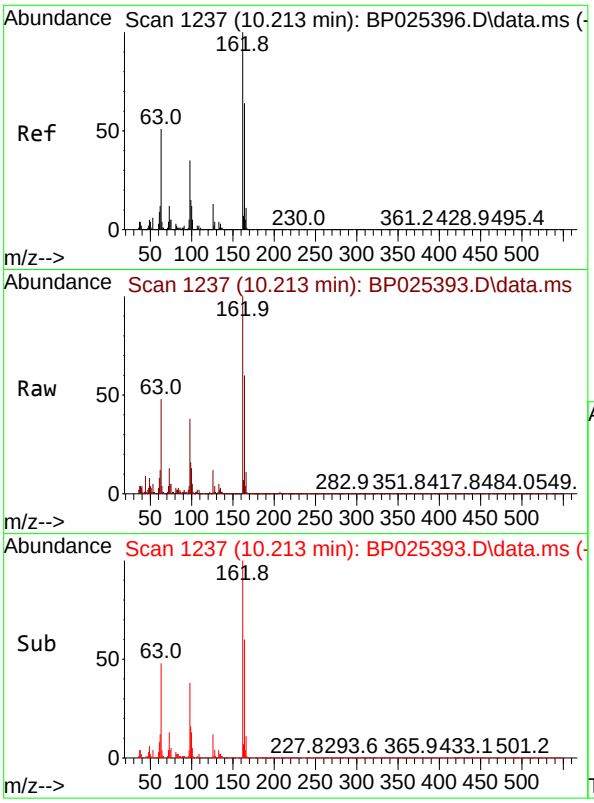


#28
bis(2-Chloroethoxy)methane
Concen: 5.233 ng
RT: 9.972 min Scan# 1196
Delta R.T. 0.000 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion: 93 Resp: 61017

Ion	Ratio	Lower	Upper
93	100		
95	31.3	25.4	38.0
123	13.4	9.4	14.0



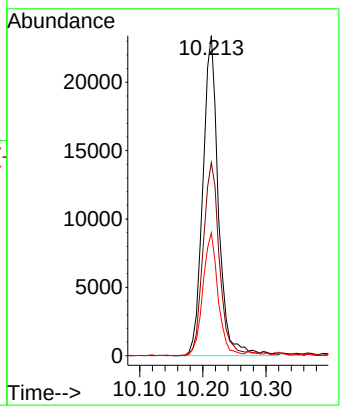


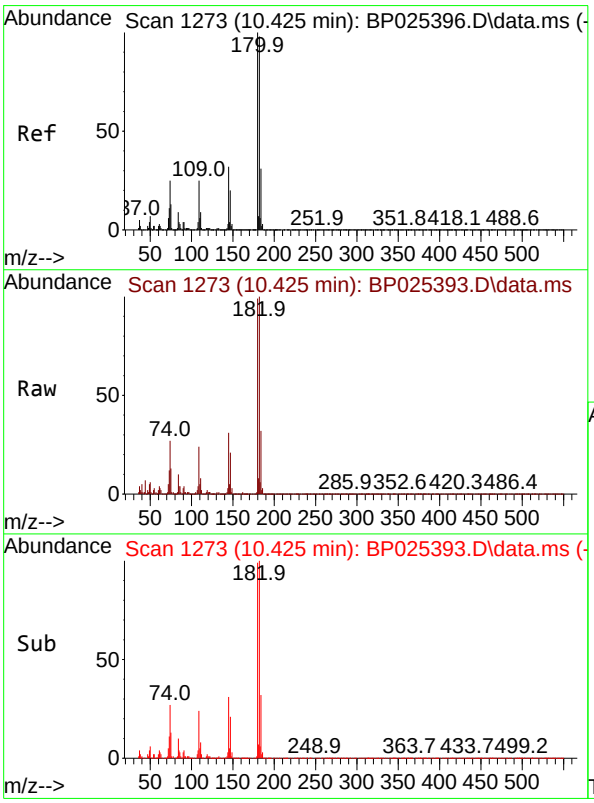
#29
2,4-Dichlorophenol
Concen: 4.723 ng
RT: 10.213 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:162 Resp: 40336

Ion	Ratio	Lower	Upper
162	100		
164	60.3	44.4	84.4
98	38.4	14.9	54.9

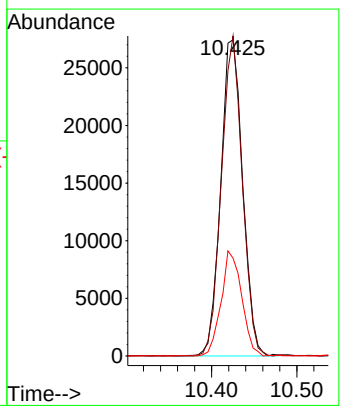


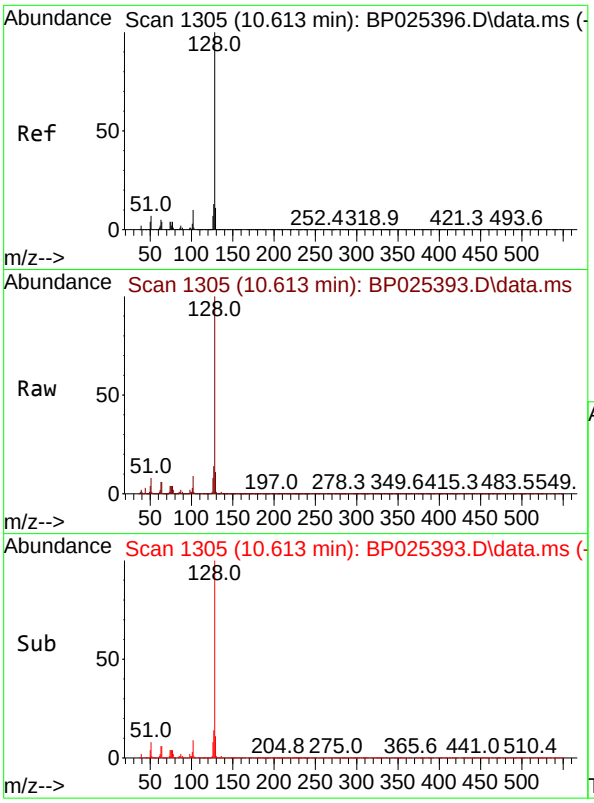


#30
1,2,4-Trichlorobenzene
Concen: 5.259 ng
RT: 10.425 min Scan# 1273
Delta R.T. 0.000 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:180 Resp: 49237

Ion	Ratio	Lower	Upper
180	100		
182	101.2	78.0	117.0
145	30.9	25.9	38.9



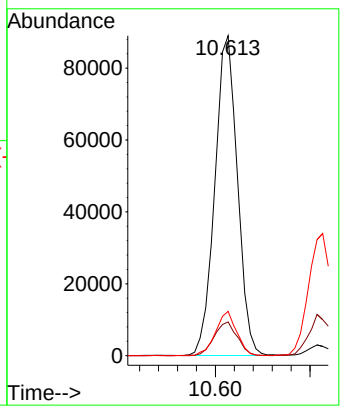


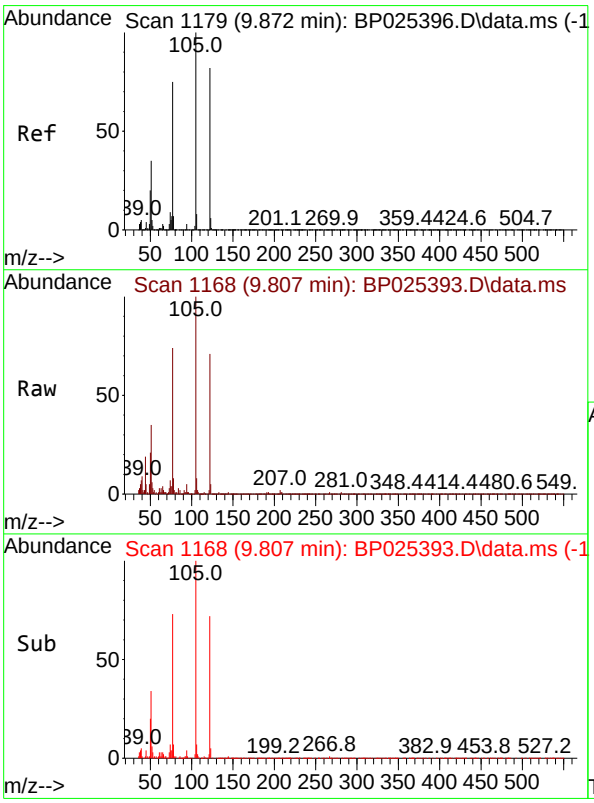
#31
Naphthalene
Concen: 5.141 ng
RT: 10.613 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:128 Resp: 147346

Ion	Ratio	Lower	Upper
128	100		
129	10.6	8.6	13.0
127	13.9	10.7	16.1

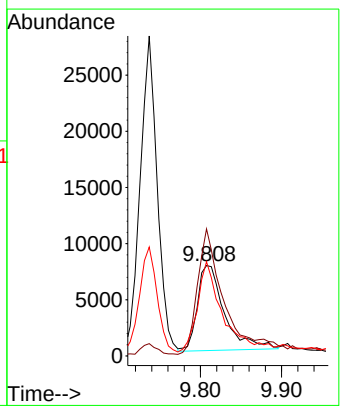


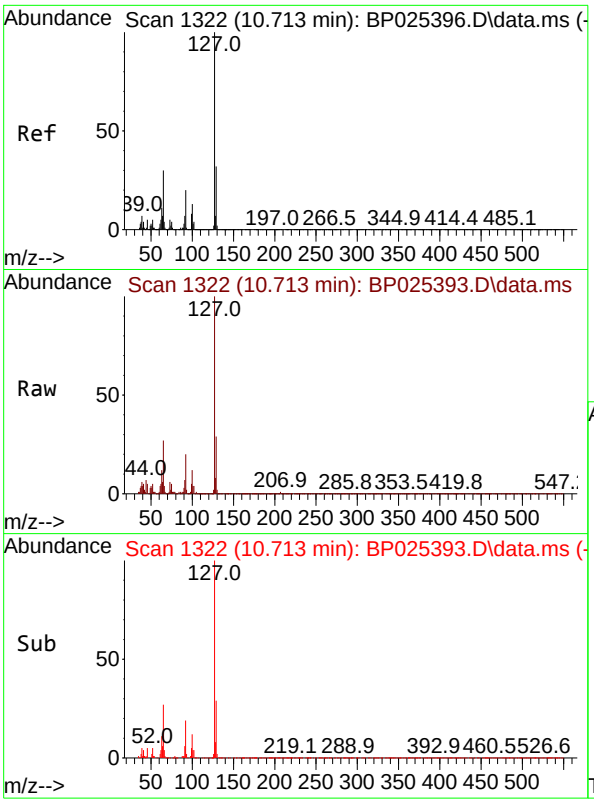


#32
Benzoic acid
Concen: 2.788 ng
RT: 9.807 min Scan# 1168
Delta R.T. -0.065 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:122 Resp: 17656

Ion	Ratio	Lower	Upper
122	100		
105	140.5	100.6	140.6
77	104.3	71.5	111.5



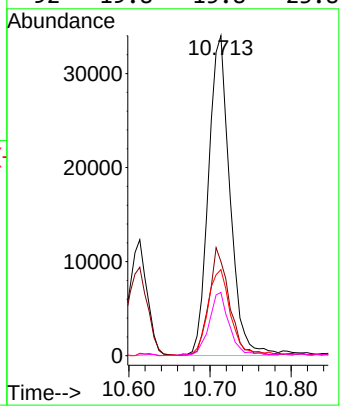


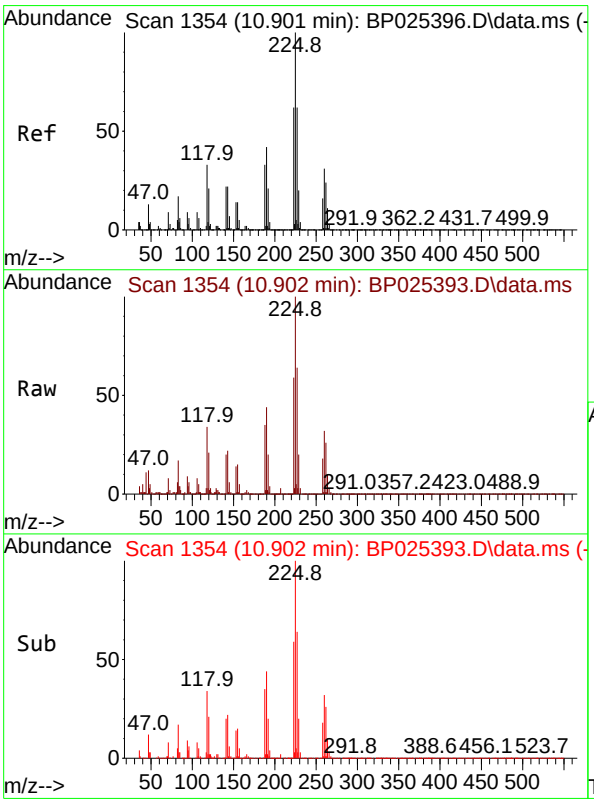
#33
4-Chloroaniline
Concen: 4.933 ng
RT: 10.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:127 Resp: 62452

Ion	Ratio	Lower	Upper
127	100		
129	29.4	25.4	38.2
65	26.9	23.8	35.6
92	19.8	15.8	23.8

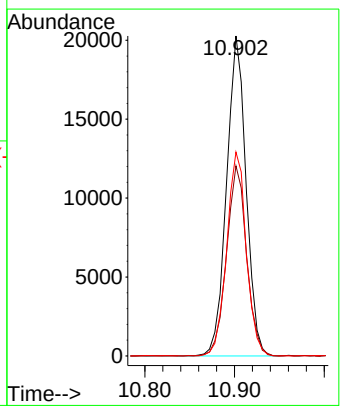


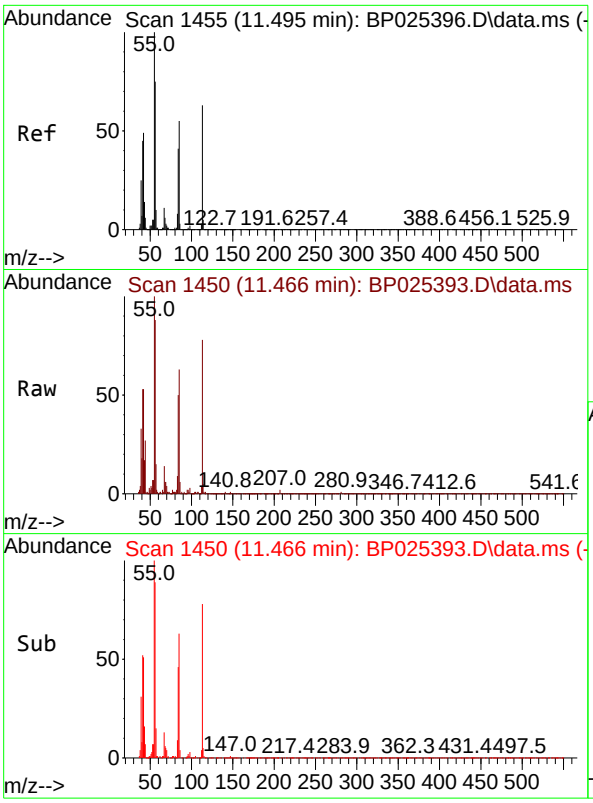


#34
Hexachlorobutadiene
Concen: 5.241 ng
RT: 10.902 min Scan# 1354
Delta R.T. 0.000 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:225 Resp: 30559

Ion	Ratio	Lower	Upper
225	100		
223	59.4	50.0	75.0
227	66.3	49.7	74.5



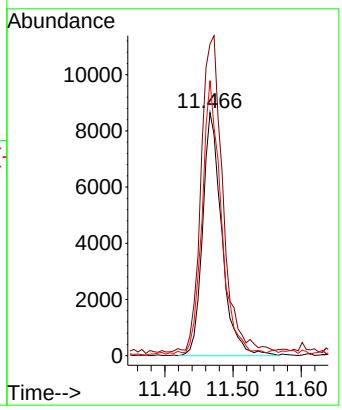


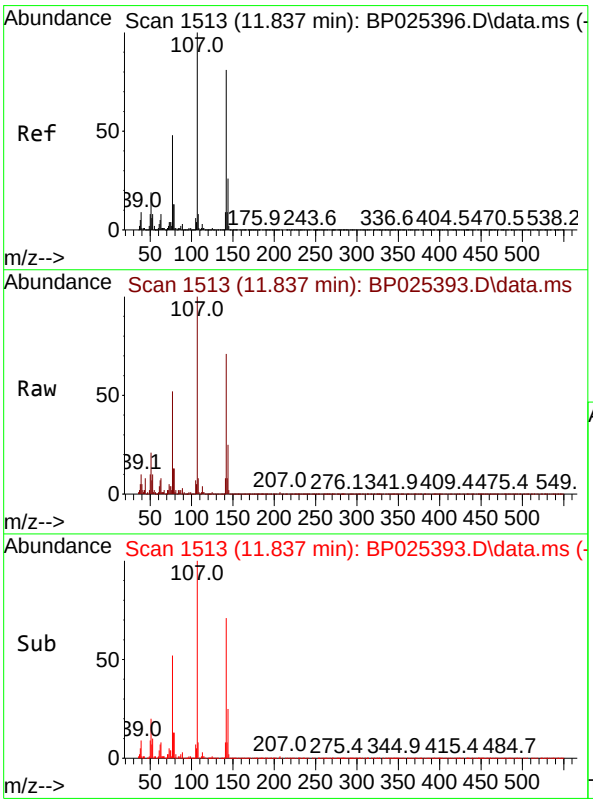
#35
Caprolactam
Concen: 5.393 ng
RT: 11.466 min Scan# 14
Delta R.T. -0.029 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:113 Resp: 16890

Ion	Ratio	Lower	Upper
113	100		
55	128.3	140.0	180.0#
56	113.2	100.0	140.0

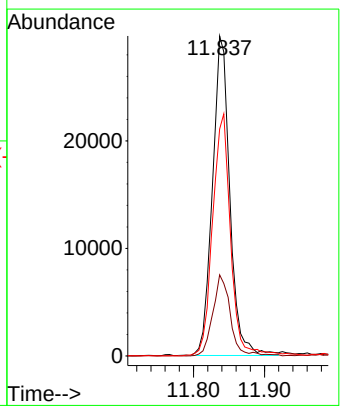


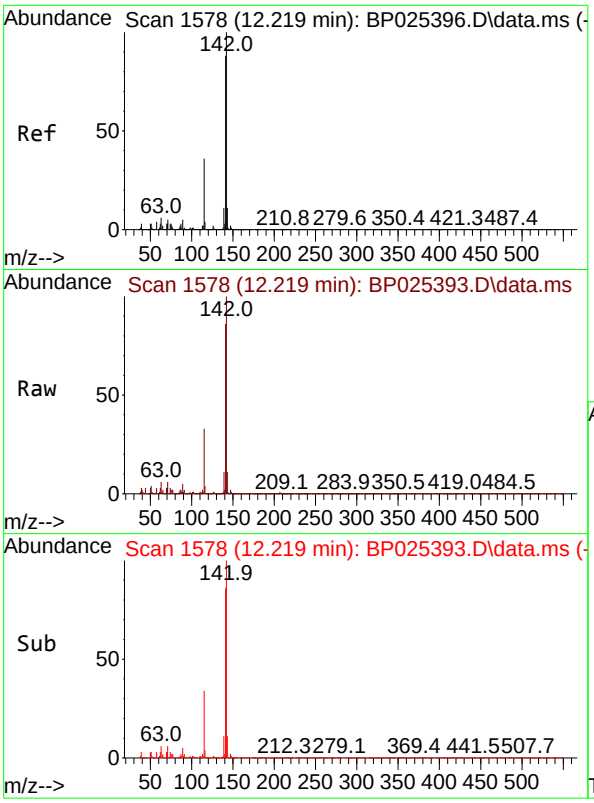


#36
4-Chloro-3-methylphenol
Concen: 5.154 ng
RT: 11.837 min Scan# 1513
Delta R.T. 0.000 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:107 Resp: 50515

Ion	Ratio	Lower	Upper
107	100		
144	25.4	21.0	31.4
142	70.9	64.6	97.0



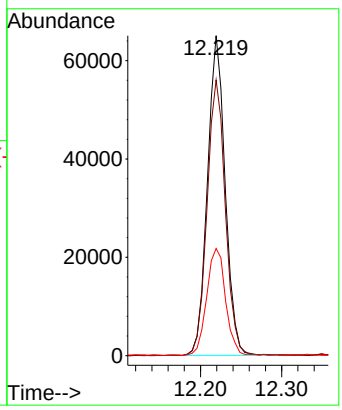


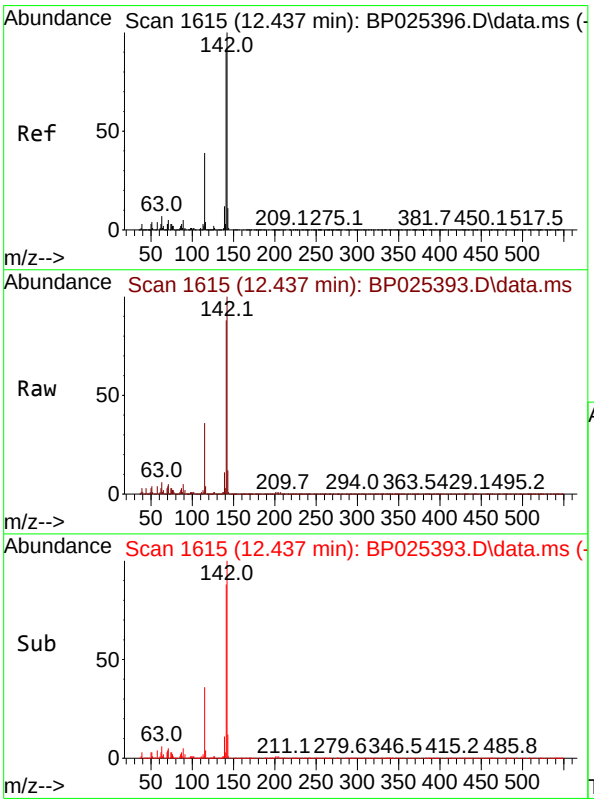
#37
2-Methylnaphthalene
Concen: 5.289 ng
RT: 12.219 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:142 Resp: 98648

Ion	Ratio	Lower	Upper
142	100		
141	86.1	70.3	105.5
115	33.5	28.9	43.3

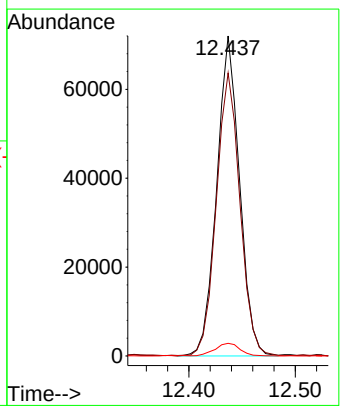


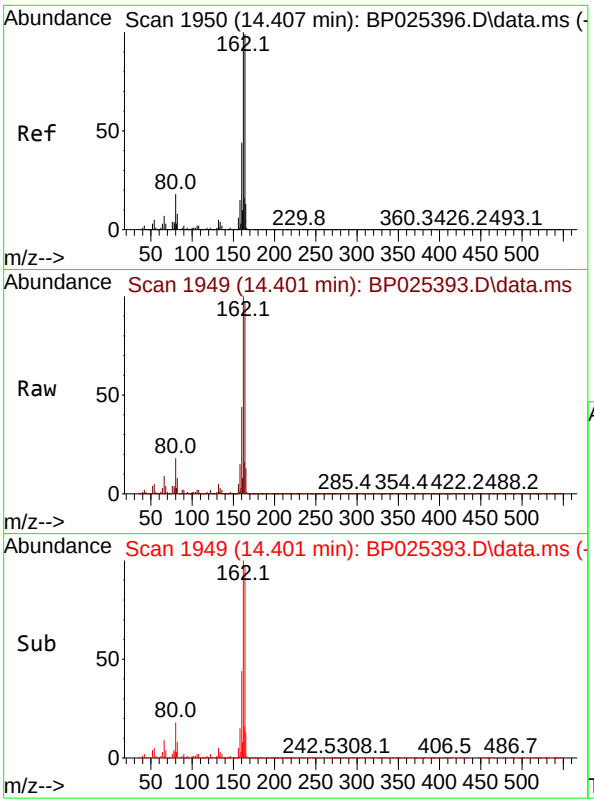


#38
1-Methylnaphthalene
Concen: 5.397 ng
RT: 12.437 min Scan# 1615
Delta R.T. 0.000 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:142 Resp: 107044

Ion	Ratio	Lower	Upper
142	100		
141	88.4	73.1	109.7
116	3.9	3.2	4.8



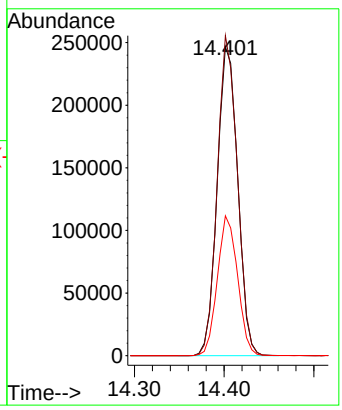


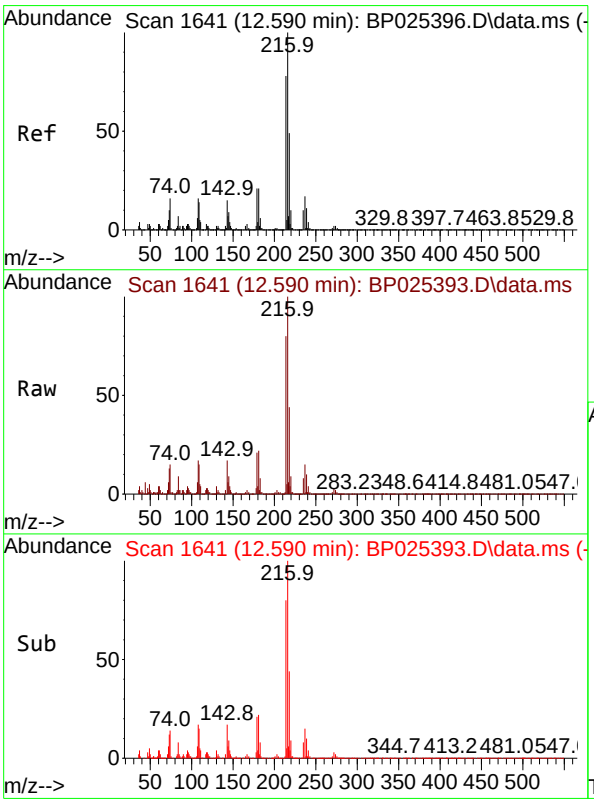
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.401 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:164 Resp: 392376

Ion	Ratio	Lower	Upper
164	100		
162	103.6	81.0	121.6
160	45.3	35.4	53.2

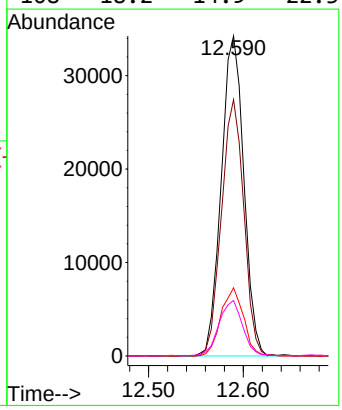


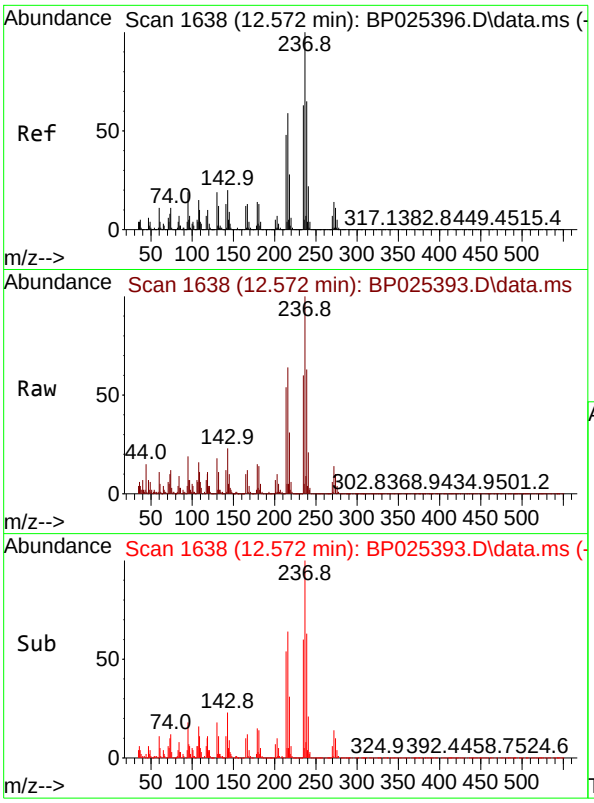


#40
1,2,4,5-Tetrachlorobenzene
Concen: 5.001 ng
RT: 12.590 min Scan# 1641
Delta R.T. 0.000 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:216 Resp: 56676

Ion	Ratio	Lower	Upper
216	100		
214	79.1	63.0	94.4
179	21.3	17.1	25.7
108	18.2	14.9	22.3



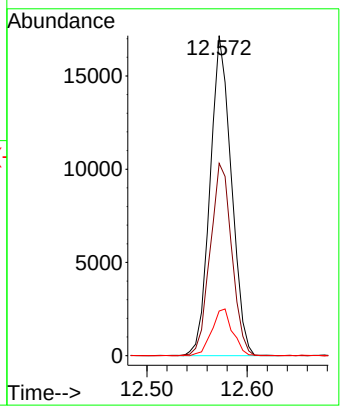


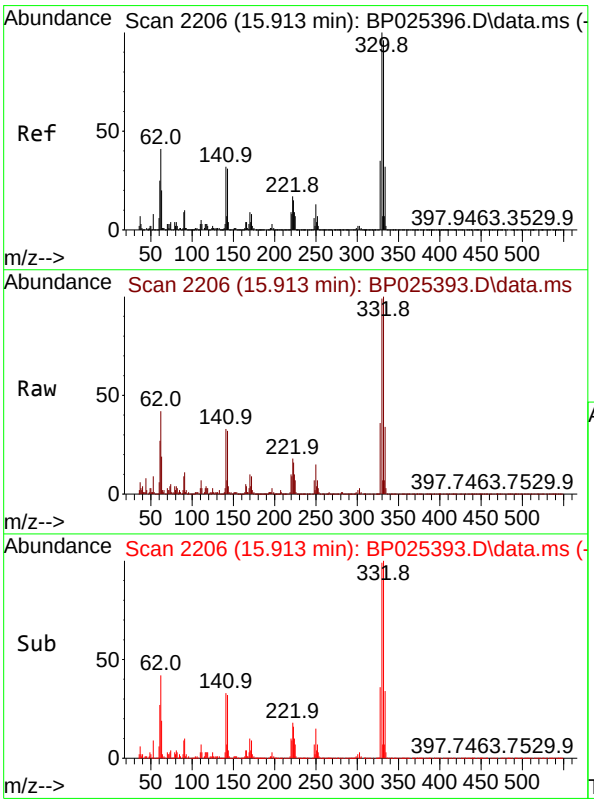
#41
Hexachlorocyclopentadiene
Concen: 3.688 ng
RT: 12.572 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:237 Resp: 25243

Ion	Ratio	Lower	Upper
237	100		
235	60.1	42.7	82.7
272	13.9	0.0	34.0

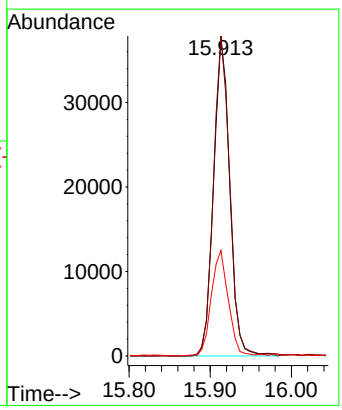


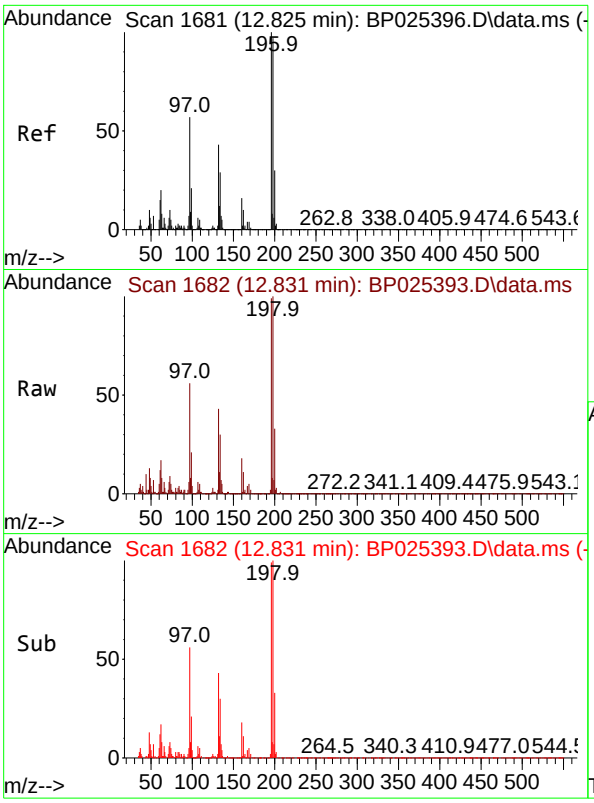


#42
2,4,6-Tribromophenol
Concen: 9.881 ng
RT: 15.913 min Scan# 2206
Delta R.T. 0.000 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:330 Resp: 52188

Ion	Ratio	Lower	Upper
330	100		
332	100.4	77.3	115.9
141	34.9	26.6	39.8



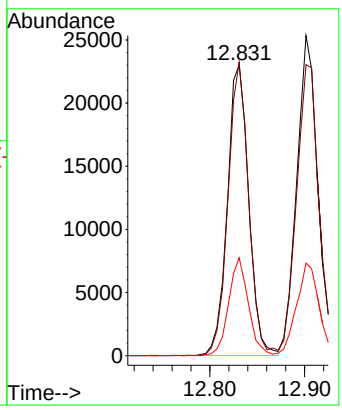


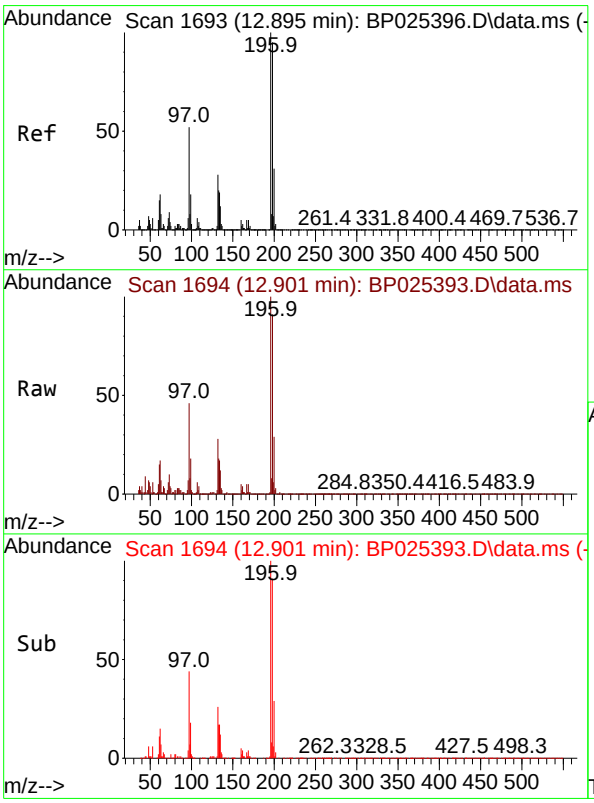
#43
2,4,6-Trichlorophenol
Concen: 4.718 ng
RT: 12.831 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:196 Resp: 36093

Ion	Ratio	Lower	Upper
196	100		
198	101.0	77.2	115.8
200	33.7	23.9	35.9

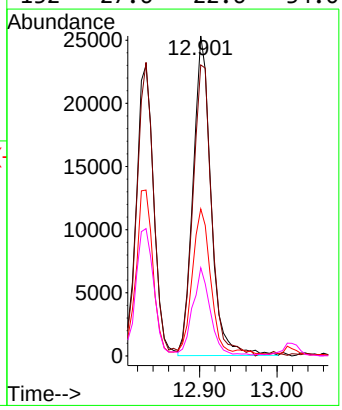


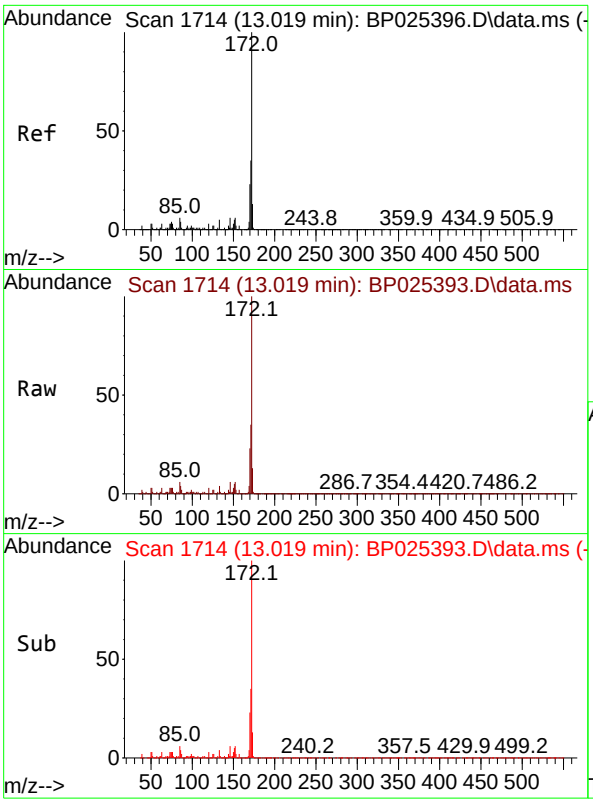


#44
2,4,5-Trichlorophenol
Concen: 4.875 ng
RT: 12.901 min Scan# 1694
Delta R.T. 0.006 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:196 Resp: 40875

Ion	Ratio	Lower	Upper
196	100		
198	91.0	76.2	114.2
97	46.0	41.2	61.8
132	27.6	22.6	34.0



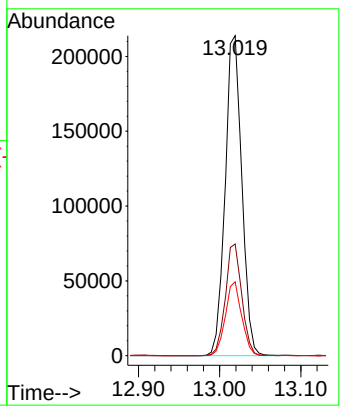


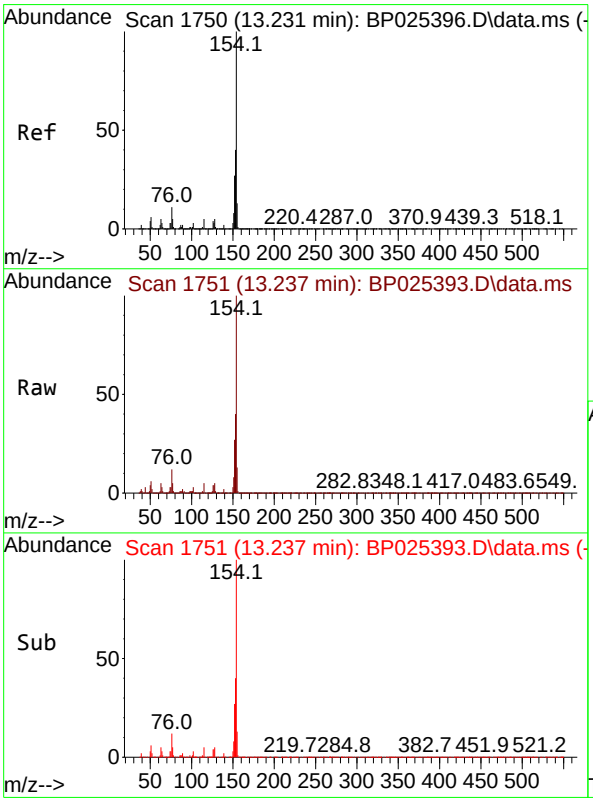
#45
2-Fluorobiphenyl
Concen: 10.649 ng
RT: 13.019 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:172 Resp: 305742

Ion	Ratio	Lower	Upper
172	100		
171	34.9	28.1	42.1
170	23.1	18.6	28.0

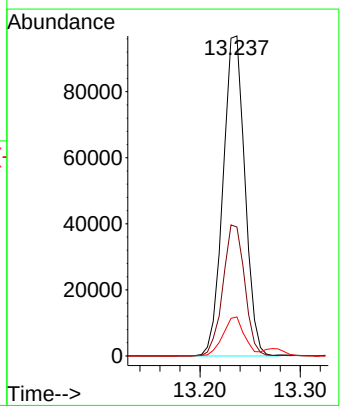


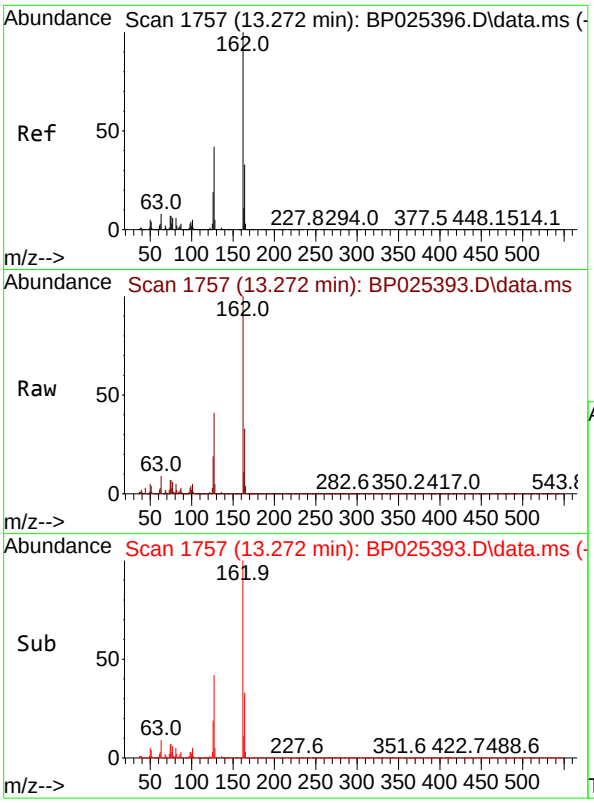


#46
1,1'-Biphenyl
Concen: 5.146 ng
RT: 13.237 min Scan# 1751
Delta R.T. 0.006 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:154 Resp: 146651

Ion	Ratio	Lower	Upper
154	100		
153	40.3	19.5	59.5
76	12.2	0.0	31.1



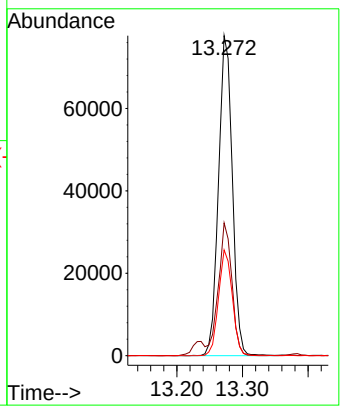


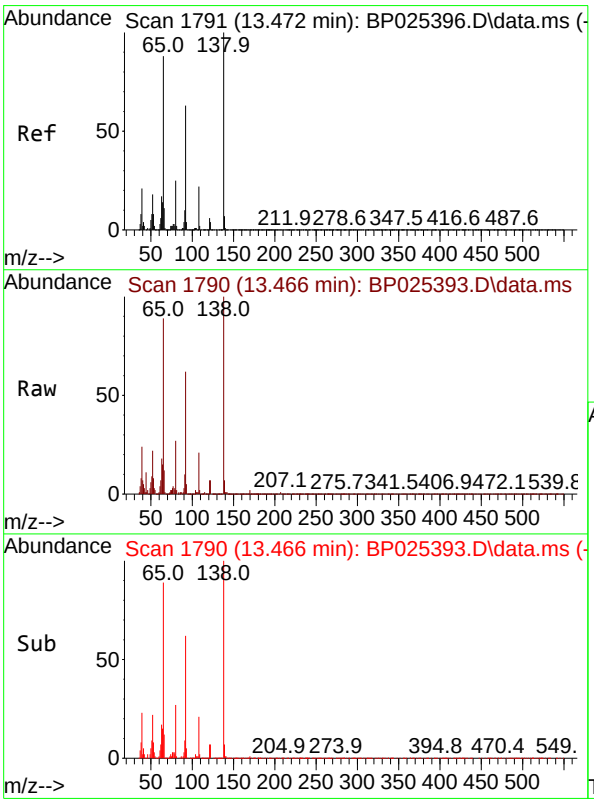
#47
2-Chloronaphthalene
Concen: 5.094 ng
RT: 13.272 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:162 Resp: 113015

Ion	Ratio	Lower	Upper
162	100		
127	41.5	33.4	50.2
164	33.0	26.2	39.2

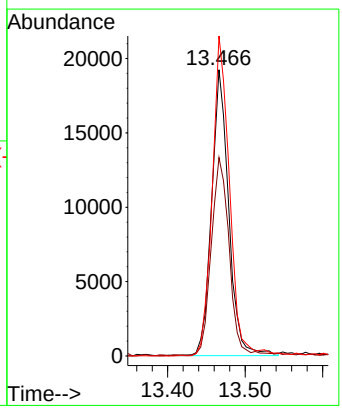


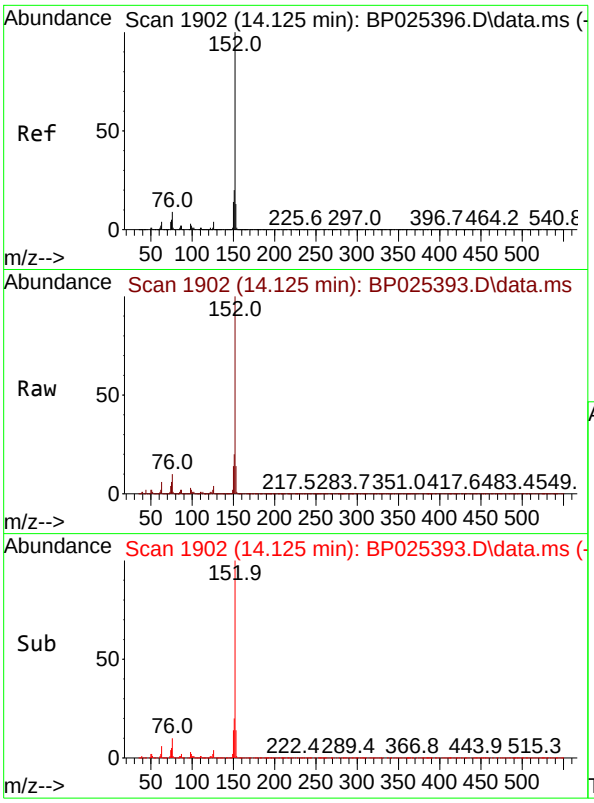


#48
2-Nitroaniline
Concen: 4.568 ng
RT: 13.466 min Scan# 1790
Delta R.T. -0.006 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion: 65 Resp: 29527

Ion	Ratio	Lower	Upper
65	100		
92	69.3	57.6	86.4
138	111.8	91.0	136.6



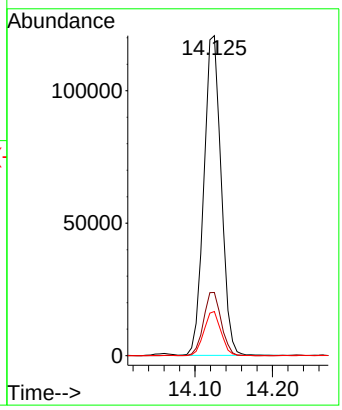


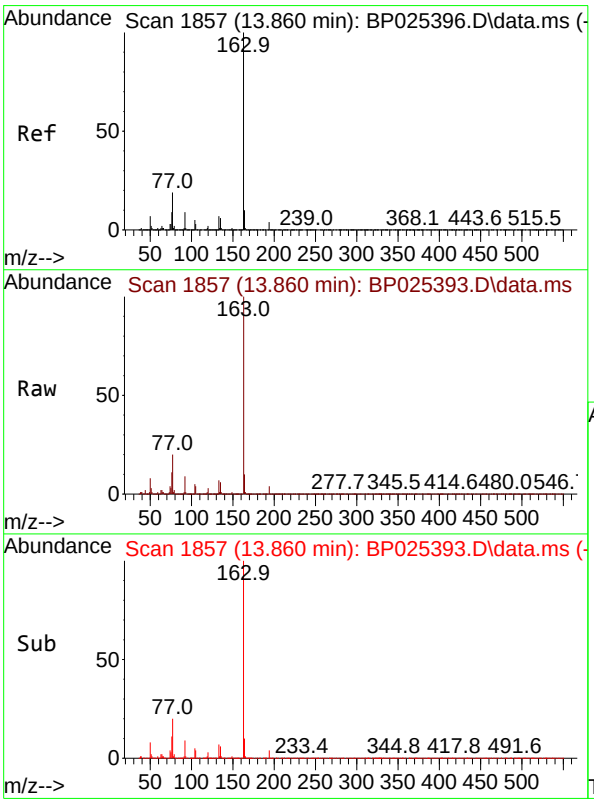
#49
Acenaphthylene
Concen: 5.095 ng
RT: 14.125 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:152 Resp: 187026

Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.0	24.0
153	13.8	10.6	15.8

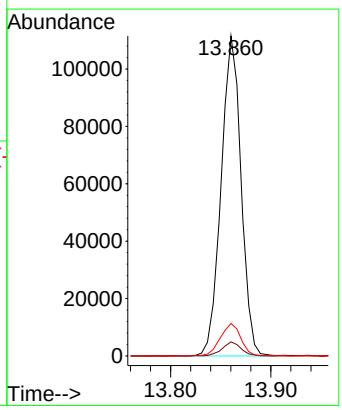


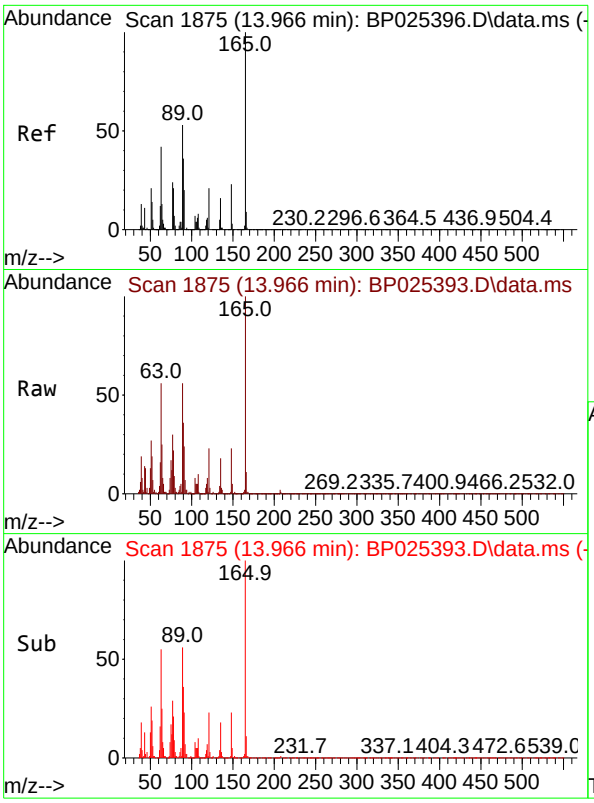


#50
Dimethylphthalate
Concen: 5.355 ng
RT: 13.860 min Scan# 1857
Delta R.T. 0.000 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:163 Resp: 153868

Ion	Ratio	Lower	Upper
163	100		
194	4.4	3.4	5.0
164	10.1	7.9	11.9



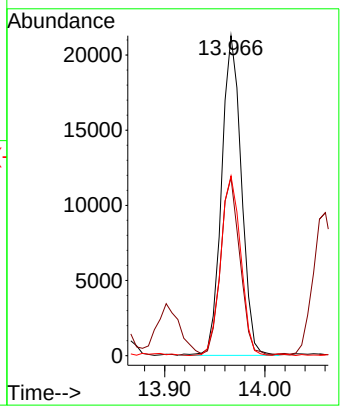


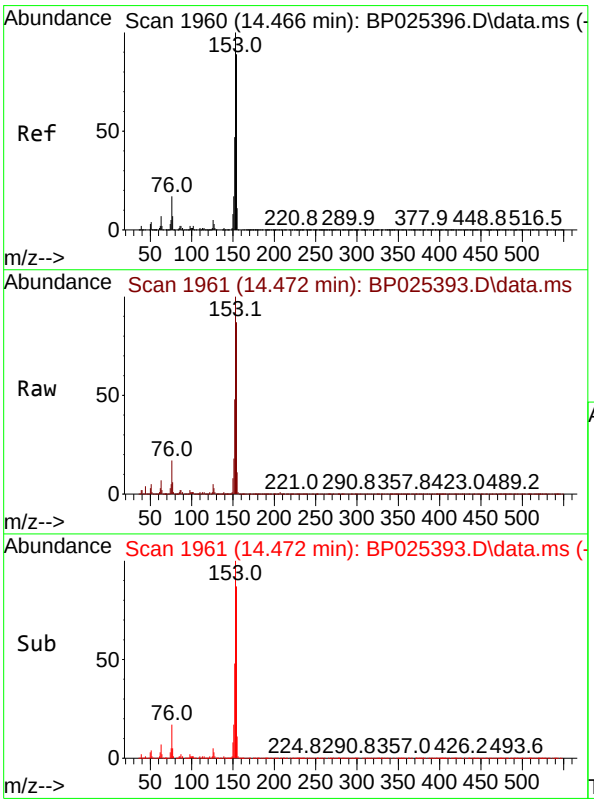
#51
2,6-Dinitrotoluene
Concen: 4.803 ng
RT: 13.966 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:165 Resp: 29088

Ion	Ratio	Lower	Upper
165	100		
63	55.7	40.9	61.3
89	56.2	42.1	63.1

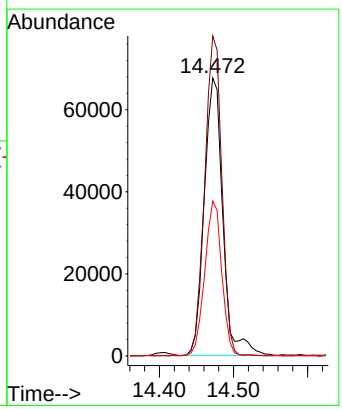


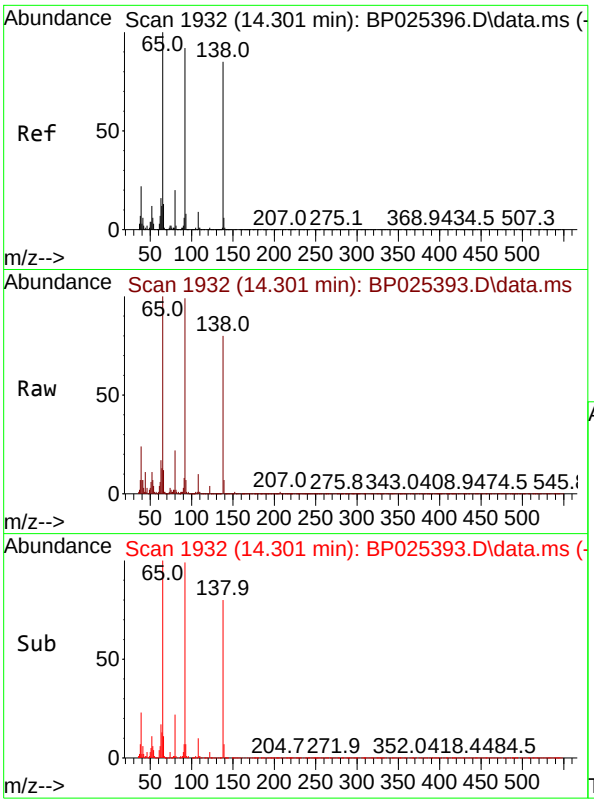


#52
Acenaphthene
Concen: 5.460 ng
RT: 14.472 min Scan# 1961
Delta R.T. 0.006 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:154 Resp: 117653

Ion	Ratio	Lower	Upper
154	100		
153	115.1	90.2	135.2
152	55.7	42.1	63.1



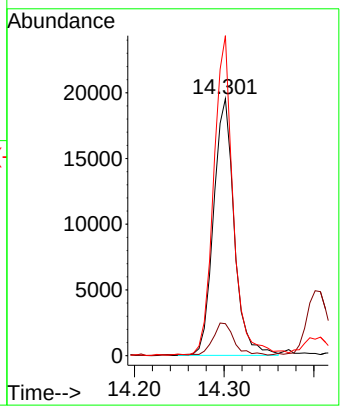


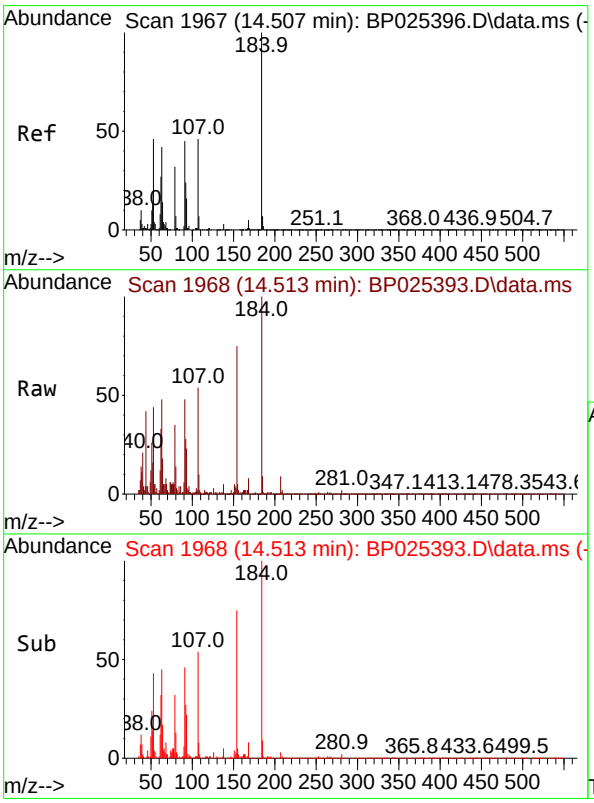
#53
3-Nitroaniline
Concen: 4.583 ng
RT: 14.301 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:138 Resp: 31224

Ion	Ratio	Lower	Upper
138	100		
108	12.5	8.3	12.5
92	124.5	86.2	129.2

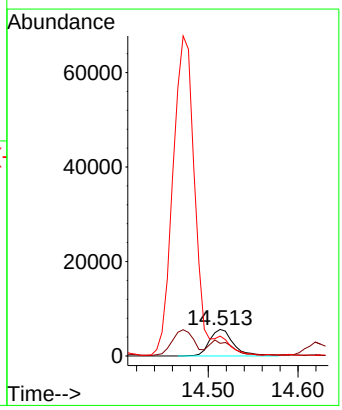


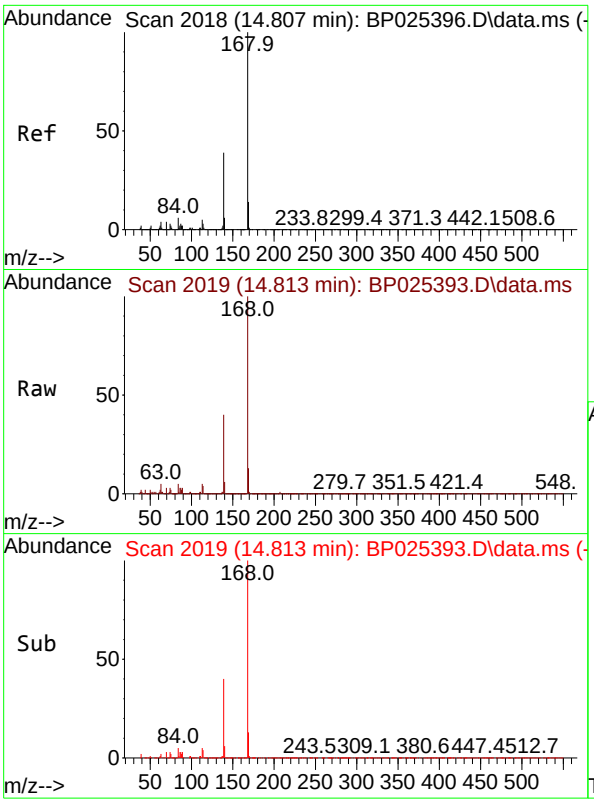


#54
2,4-Dinitrophenol
Concen: 3.228 ng
RT: 14.513 min Scan# 1968
Delta R.T. 0.006 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:184 Resp: 10441

Ion	Ratio	Lower	Upper
184	100		
63	47.6	49.4	74.2#
154	74.9	54.6	82.0



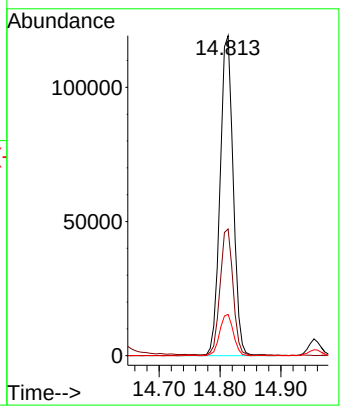


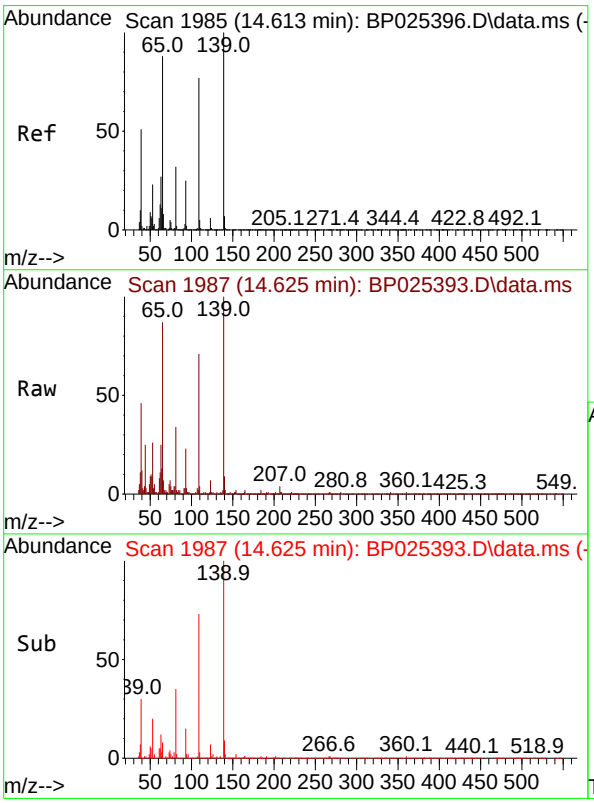
#55
Dibenzofuran
Concen: 5.240 ng
RT: 14.813 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:168 Resp: 178494

Ion	Ratio	Lower	Upper
168	100		
139	39.6	31.5	47.3
169	12.9	10.9	16.3

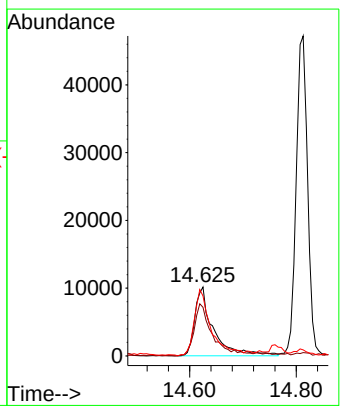


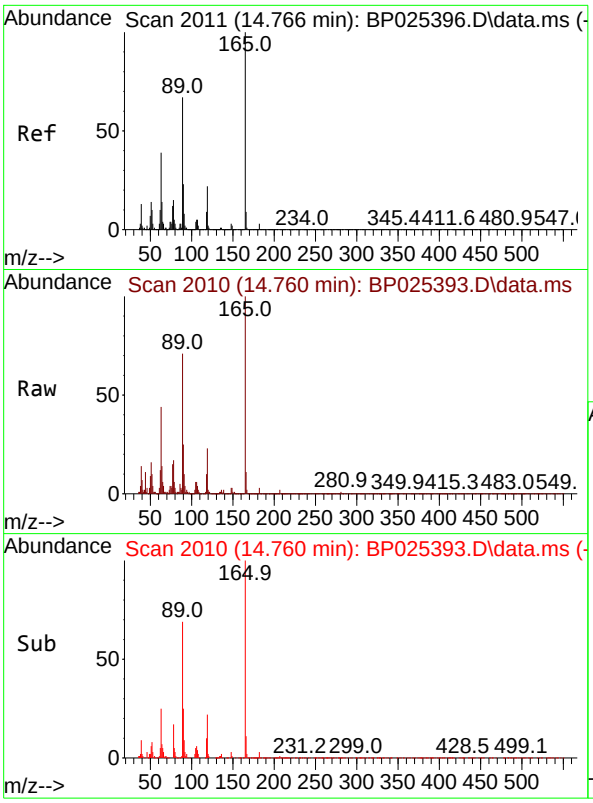


#56
4-Nitrophenol
Concen: 4.379 ng
RT: 14.625 min Scan# 1987
Delta R.T. 0.012 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:139 Resp: 24517

Ion	Ratio	Lower	Upper
139	100		
109	70.6	56.6	96.6
65	86.9	68.2	108.2



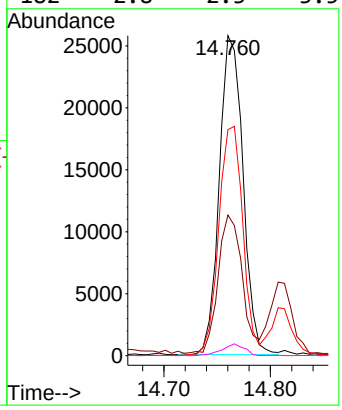


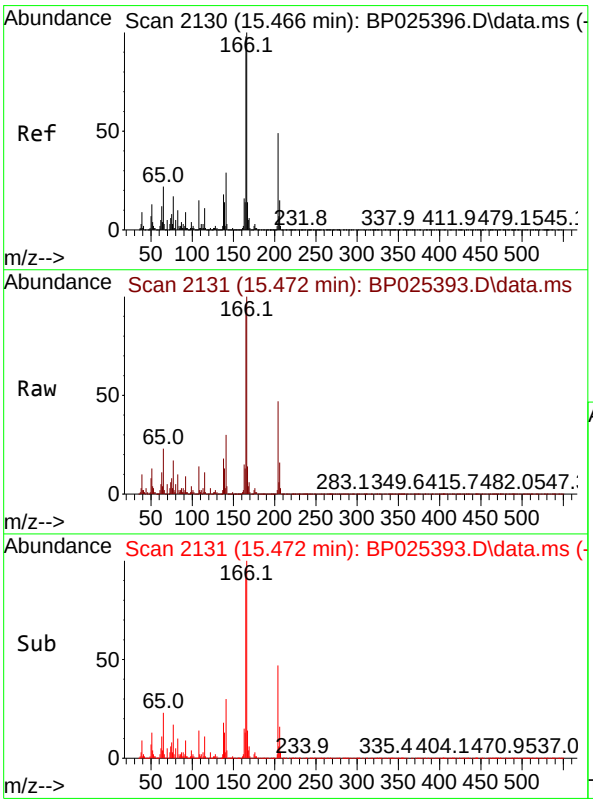
#57
2,4-Dinitrotoluene
Concen: 4.590 ng
RT: 14.760 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:165 Resp: 39658

Ion	Ratio	Lower	Upper
165	100		
63	43.9	31.4	47.2
89	70.6	53.3	79.9
182	2.8	2.3	3.5

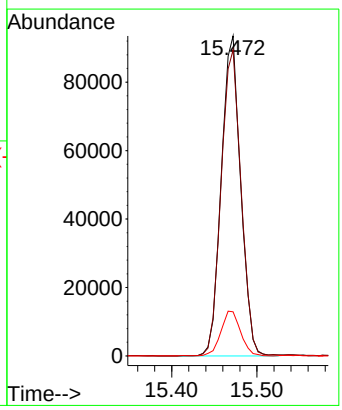


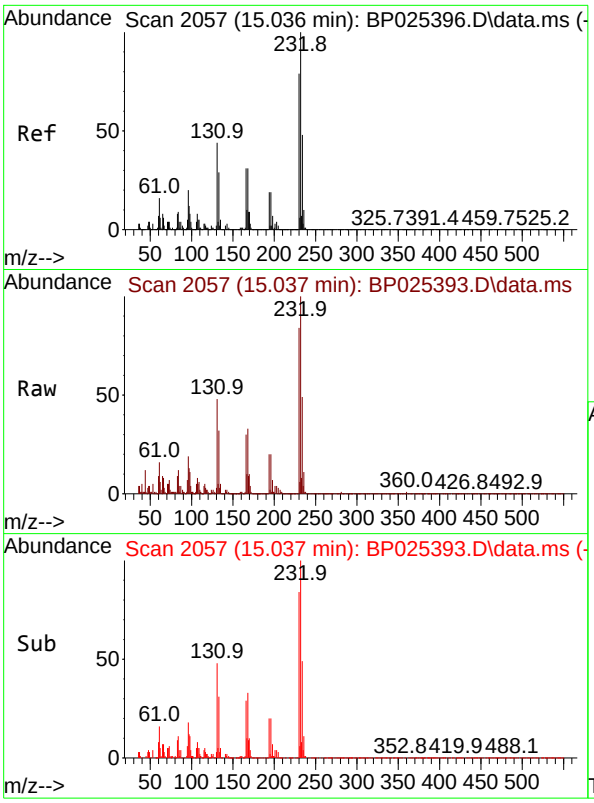


#58
Fluorene
Concen: 5.497 ng
RT: 15.472 min Scan# 2131
Delta R.T. 0.006 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:166 Resp: 147760

Ion	Ratio	Lower	Upper
166	100		
165	95.7	78.8	118.2
167	13.8	11.0	16.4



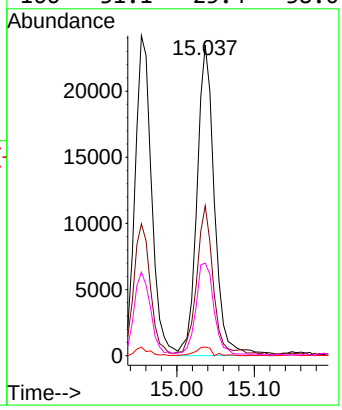


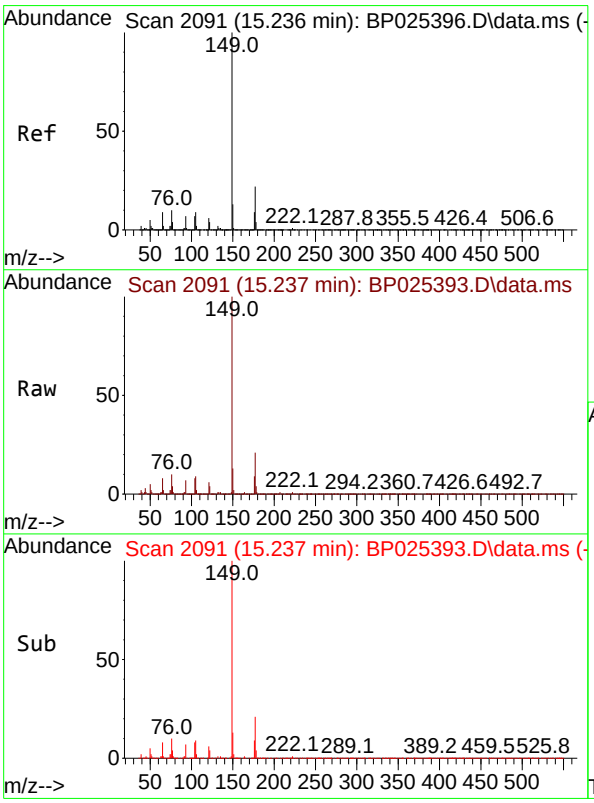
#59
2,3,4,6-Tetrachlorophenol
Concen: 4.968 ng
RT: 15.037 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:232 Resp: 36779

Ion	Ratio	Lower	Upper
232	100		
131	46.0	37.0	55.6
130	2.7	1.9	2.9
166	31.1	25.4	38.0

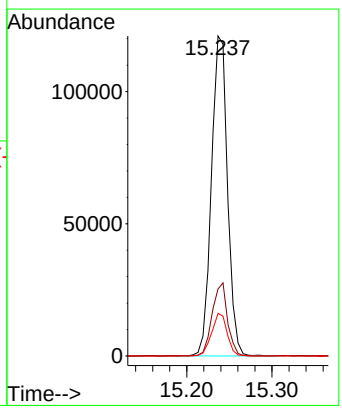


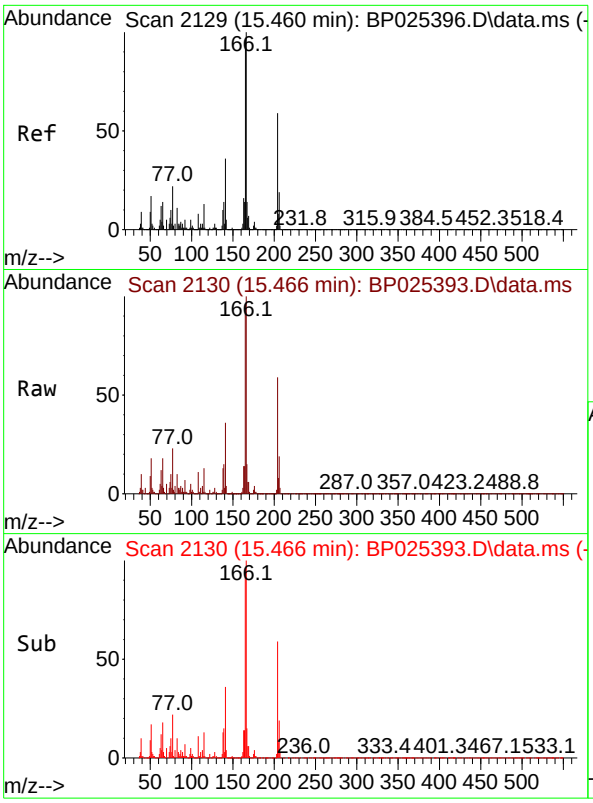


#60
Diethylphthalate
Concen: 5.426 ng
RT: 15.237 min Scan# 2091
Delta R.T. 0.000 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:149 Resp: 158426

Ion	Ratio	Lower	Upper
149	100		
177	20.9	17.3	25.9
150	13.3	10.3	15.5



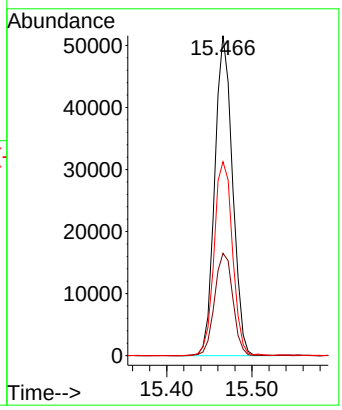


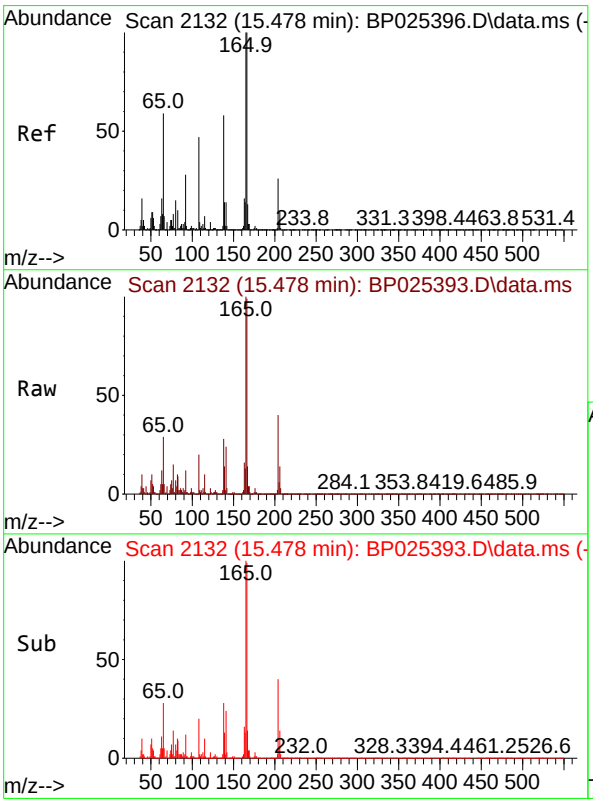
#61
4-Chlorophenyl-phenylether
Concen: 5.583 ng
RT: 15.466 min Scan# 21
Delta R.T. 0.006 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:204 Resp: 74636

Ion	Ratio	Lower	Upper
204	100		
206	32.0	25.8	38.8
141	60.6	49.4	74.2

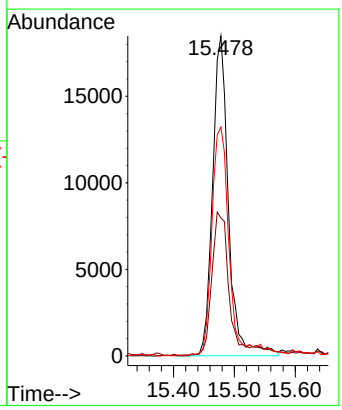


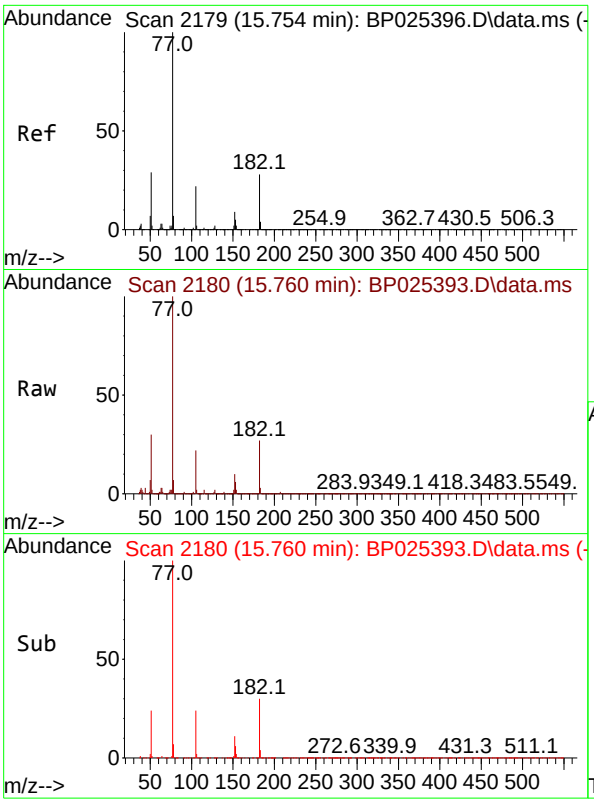


#62
4-Nitroaniline
Concen: 4.791 ng
RT: 15.478 min Scan# 2132
Delta R.T. 0.000 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:138 Resp: 33466

Ion	Ratio	Lower	Upper
138	100		
92	43.2	29.1	69.1
108	71.5	61.5	101.5



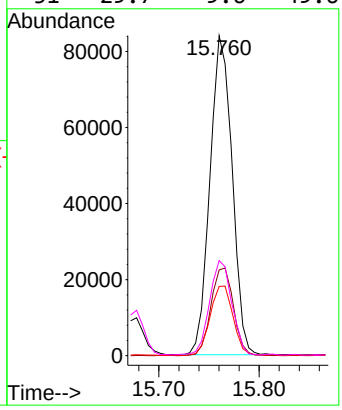


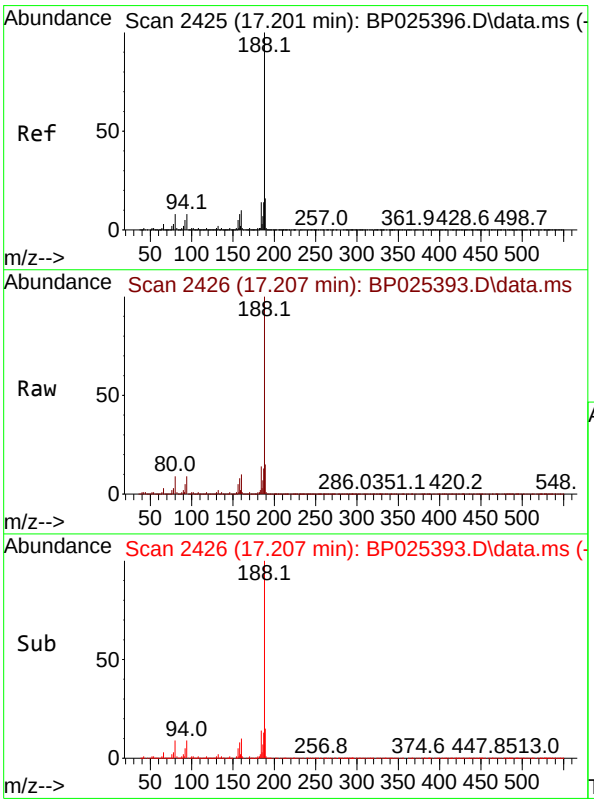
#63
Azobenzene
Concen: 5.159 ng
RT: 15.760 min Scan# 21
Delta R.T. 0.006 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion: 77 Resp: 128978

Ion	Ratio	Lower	Upper
77	100		
182	26.8	7.5	47.5
105	21.6	2.1	42.1
51	29.7	9.6	49.6

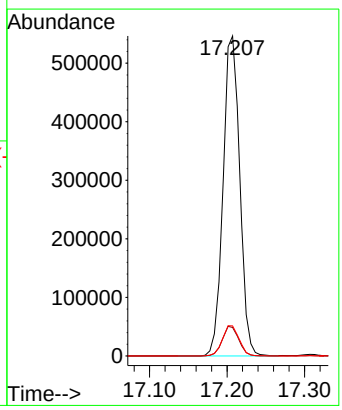


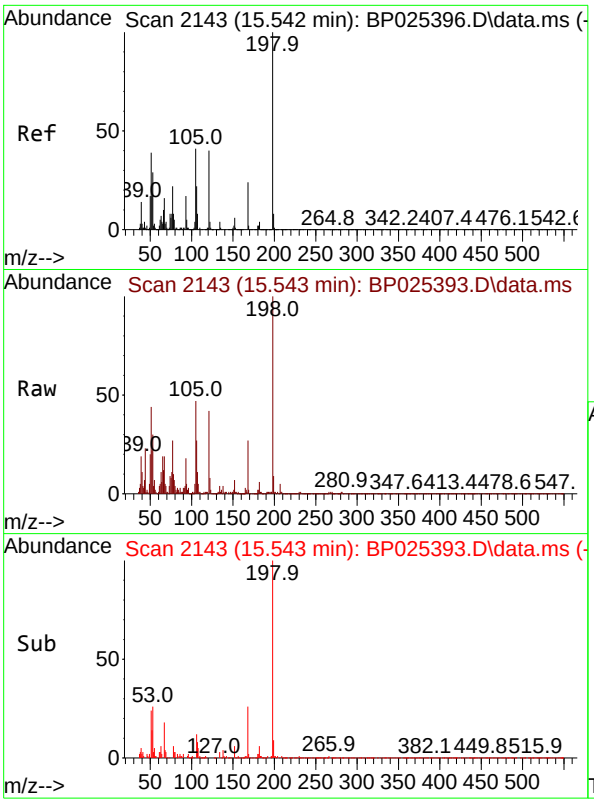


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.207 min Scan# 2426
Delta R.T. 0.006 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:188 Resp: 816331

Ion	Ratio	Lower	Upper
188	100		
94	8.9	6.6	10.0
80	9.4	6.7	10.1



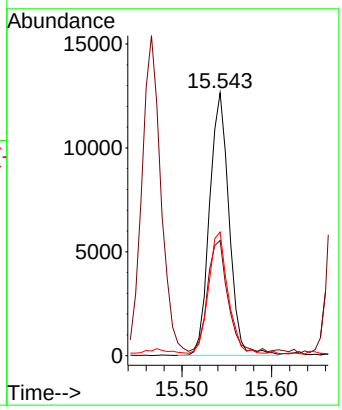


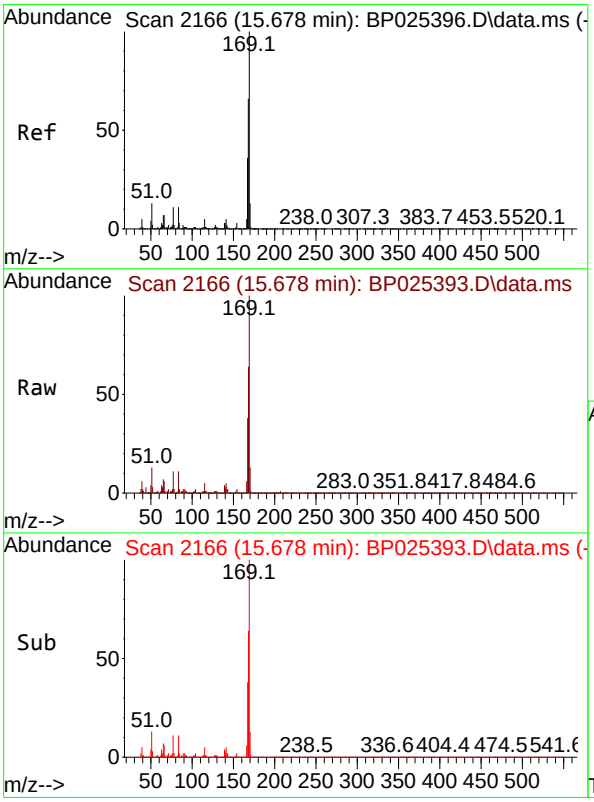
#65
4,6-Dinitro-2-methylphenol
Concen: 3.747 ng
RT: 15.543 min Scan# 21
Delta R.T. 0.000 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:198 Resp: 19069

Ion	Ratio	Lower	Upper
198	100		
51	43.8	19.6	59.6
105	47.0	20.9	60.9

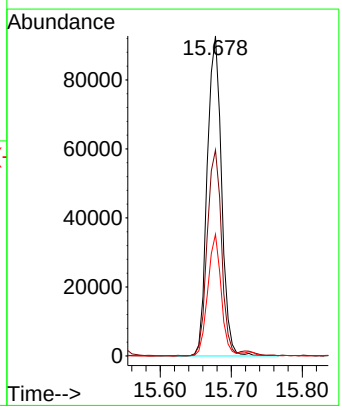


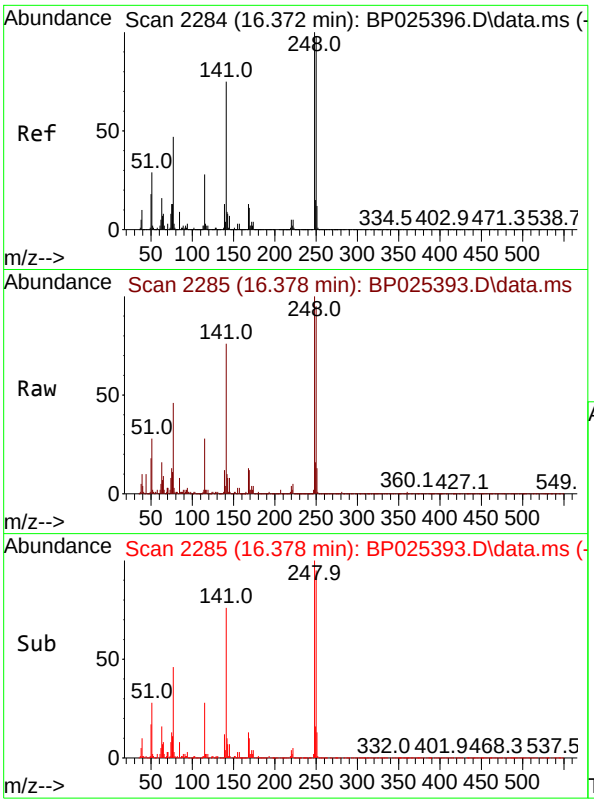


#66
n-Nitrosodiphenylamine
Concen: 5.214 ng
RT: 15.678 min Scan# 2166
Delta R.T. 0.000 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:169 Resp: 129805

Ion	Ratio	Lower	Upper
169	100		
168	64.3	53.2	79.8
167	38.0	28.7	43.1



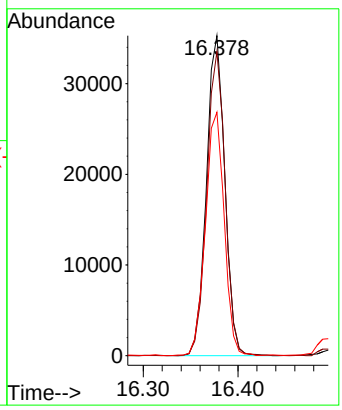


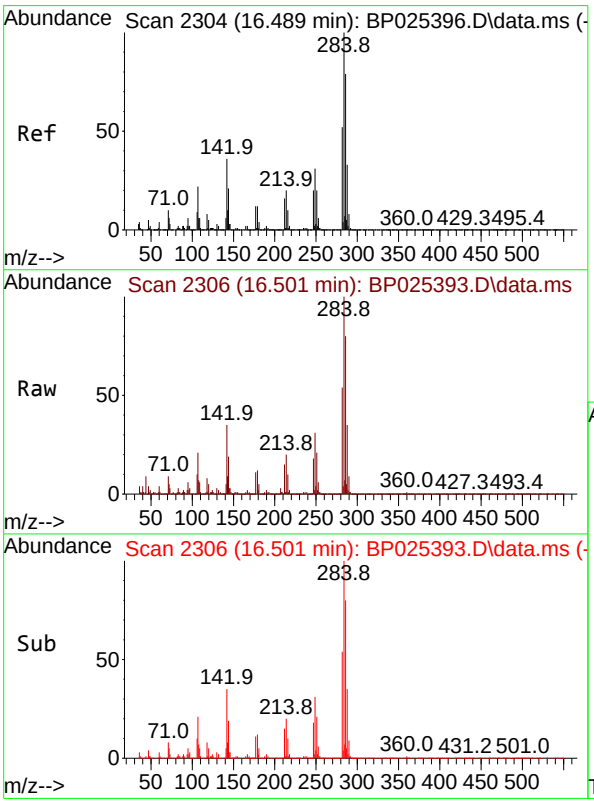
#67
4-Bromophenyl-phenylether
Concen: 5.299 ng
RT: 16.378 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:248 Resp: 47579

Ion	Ratio	Lower	Upper
248	100		
250	95.1	78.2	117.2
141	76.0	59.6	89.4

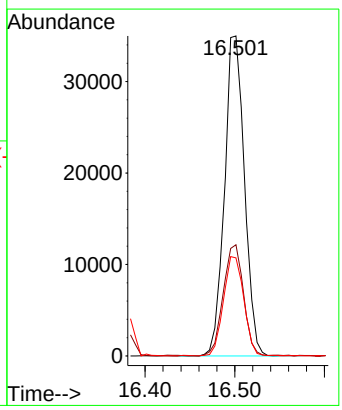


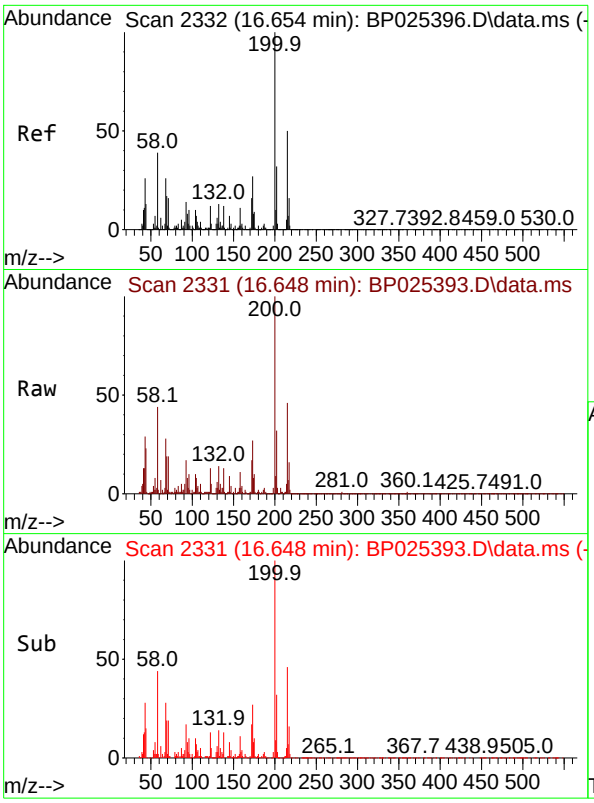


#68
Hexachlorobenzene
Concen: 5.183 ng
RT: 16.501 min Scan# 2306
Delta R.T. 0.012 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:284 Resp: 53940

Ion	Ratio	Lower	Upper
284	100		
142	34.7	29.1	43.7
249	30.6	25.0	37.4



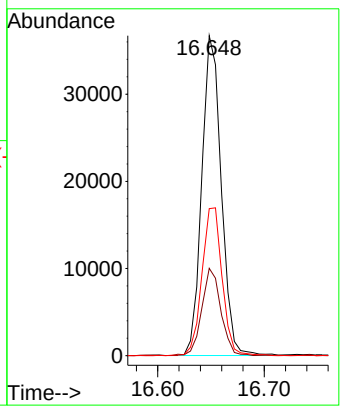


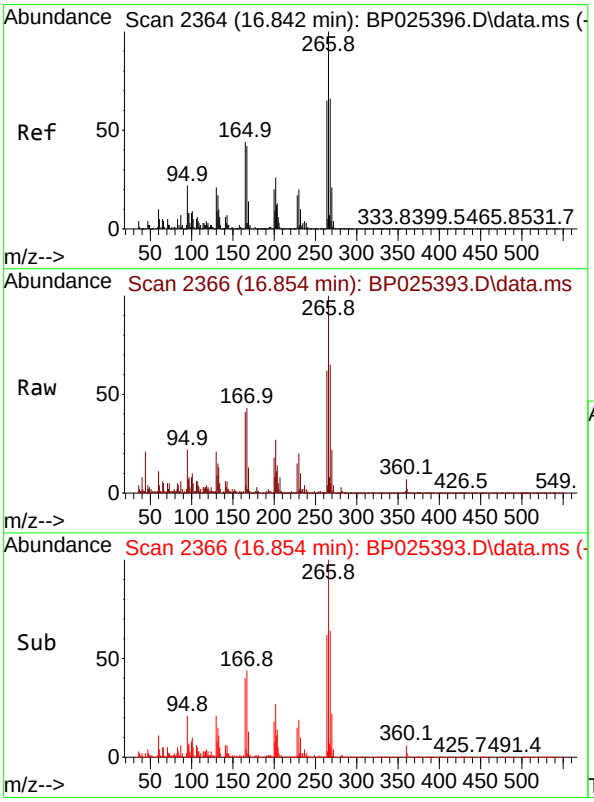
#69
Atrazine
Concen: 5.015 ng
RT: 16.648 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:200 Resp: 46750

Ion	Ratio	Lower	Upper
200	100		
173	27.3	6.7	46.7
215	45.9	29.7	69.7

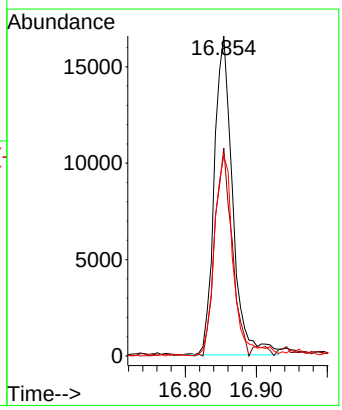


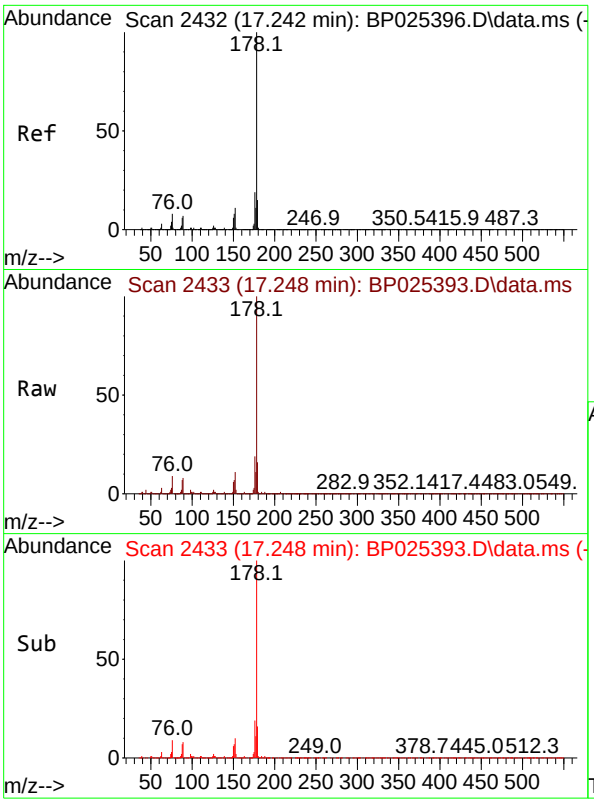


#70
Pentachlorophenol
Concen: 4.513 ng
RT: 16.854 min Scan# 2366
Delta R.T. 0.012 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:266 Resp: 29650

Ion	Ratio	Lower	Upper
266	100		
268	70.4	52.6	79.0
264	66.3	52.0	78.0



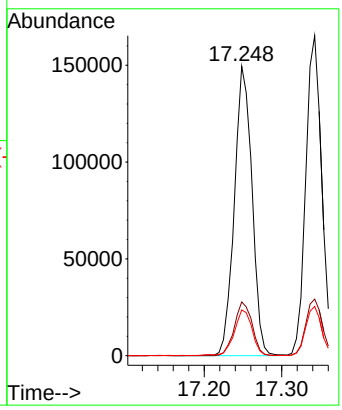


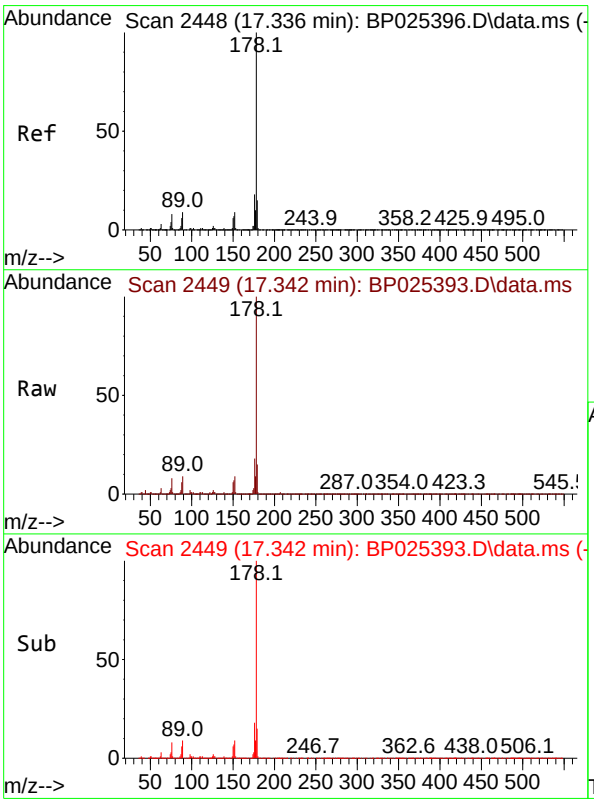
#71
Phenanthrene
Concen: 5.287 ng
RT: 17.248 min Scan# 24
Delta R.T. 0.006 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:178 Resp: 237107

Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.5	23.3
179	15.8	12.2	18.4

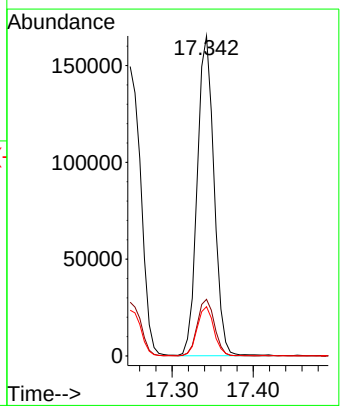


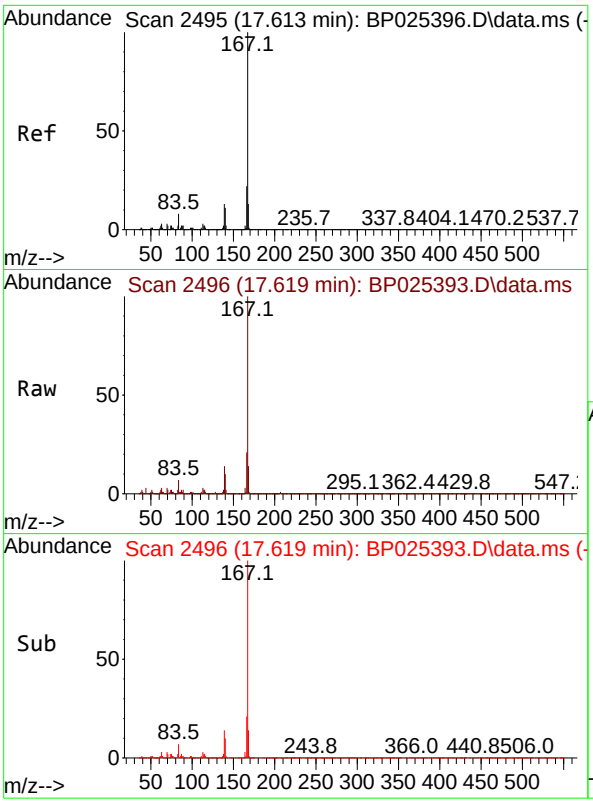


#72
Anthracene
Concen: 5.174 ng
RT: 17.342 min Scan# 2449
Delta R.T. 0.006 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:178 Resp: 236938

Ion	Ratio	Lower	Upper
178	100		
176	17.7	14.7	22.1
179	15.4	12.2	18.2



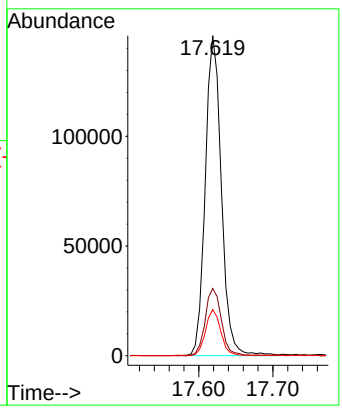


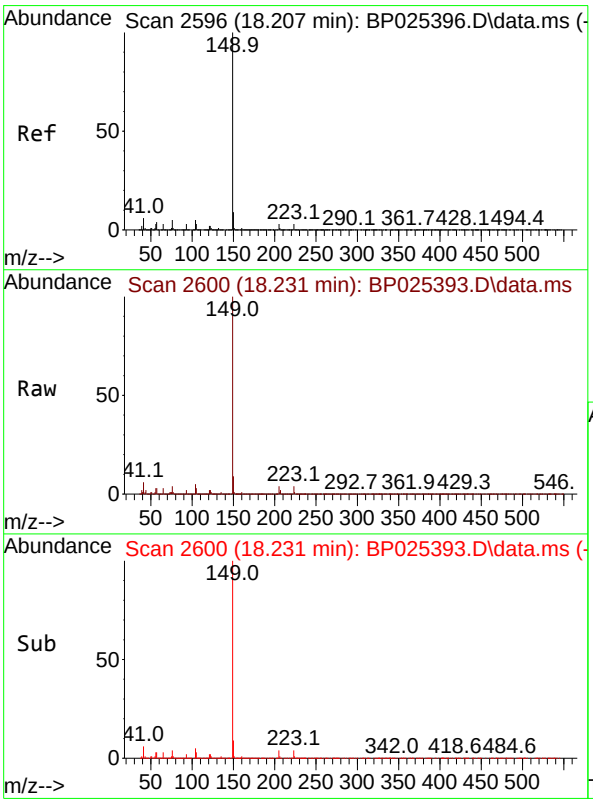
#73
Carbazole
Concen: 5.103 ng
RT: 17.619 min Scan# 24
Delta R.T. 0.006 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:167 Resp: 220112

Ion	Ratio	Lower	Upper
167	100		
166	21.0	17.5	26.3
139	14.4	10.6	16.0

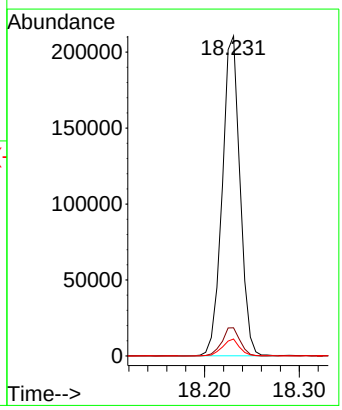


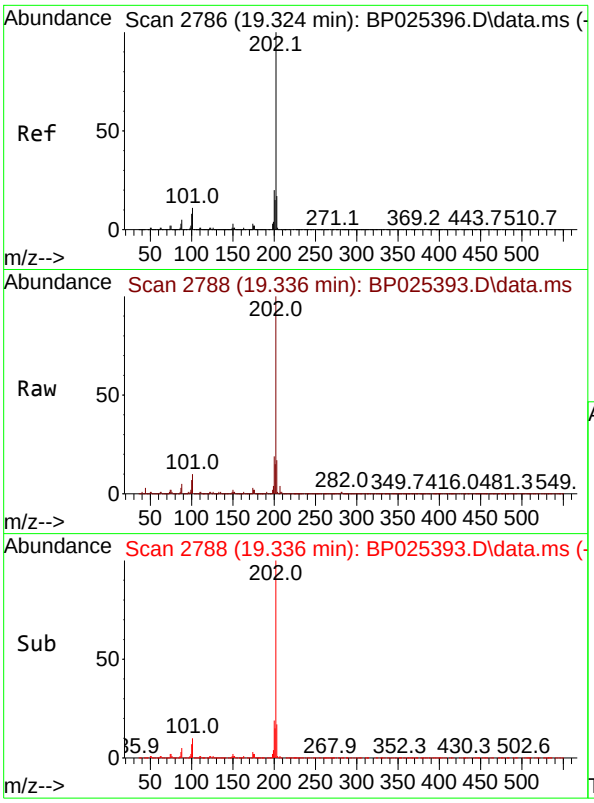


#74
Di-n-butylphthalate
Concen: 5.172 ng
RT: 18.231 min Scan# 2600
Delta R.T. 0.024 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:149 Resp: 274467

Ion	Ratio	Lower	Upper
149	100		
150	8.8	7.4	11.0
104	5.3	4.2	6.2



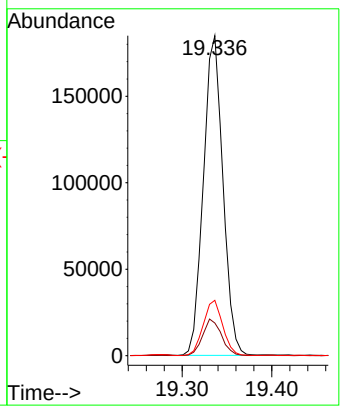


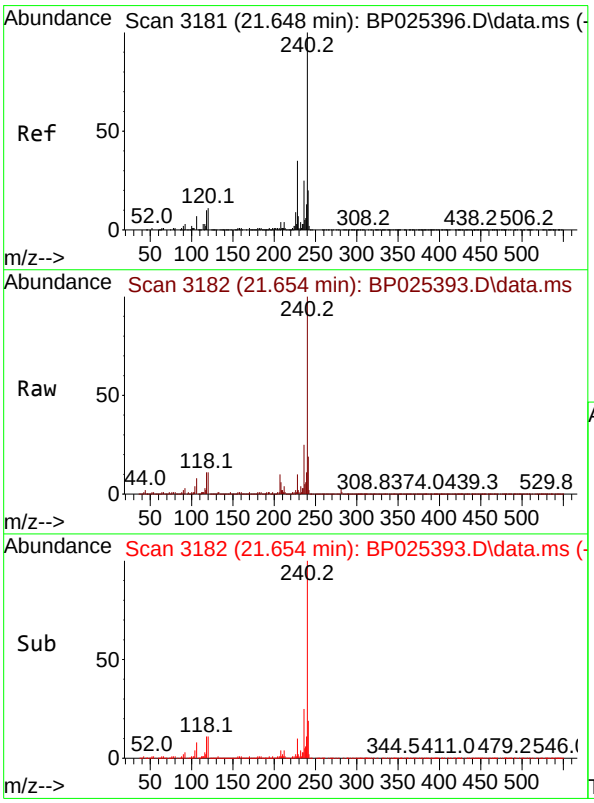
#75
Fluoranthene
Concen: 5.225 ng
RT: 19.336 min Scan# 2
Delta R.T. 0.012 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:202 Resp: 279497

Ion	Ratio	Lower	Upper
202	100		
101	10.2	0.0	31.1
203	17.3	0.0	37.3

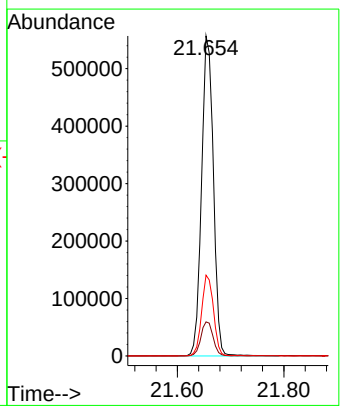


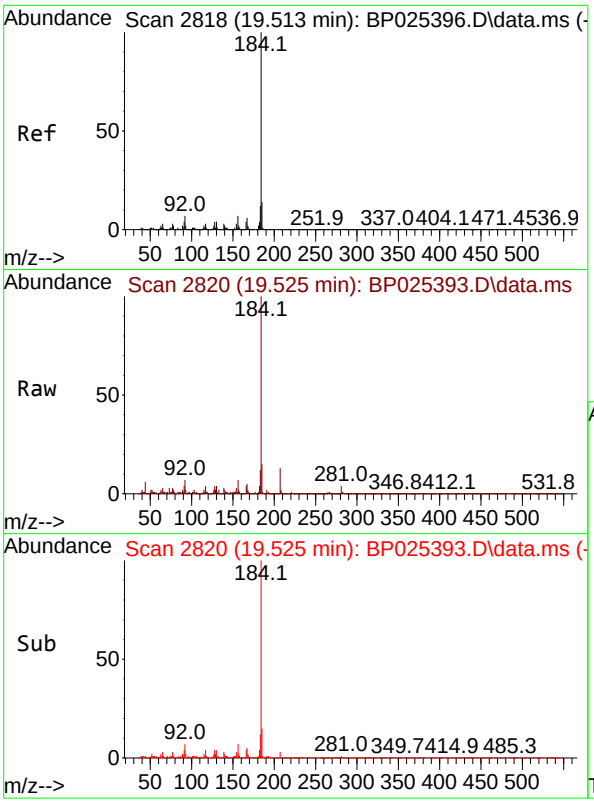


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.654 min Scan# 3182
Delta R.T. 0.006 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:240 Resp: 858165

Ion	Ratio	Lower	Upper
240	100		
120	10.6	8.9	13.3
236	25.2	19.8	29.8



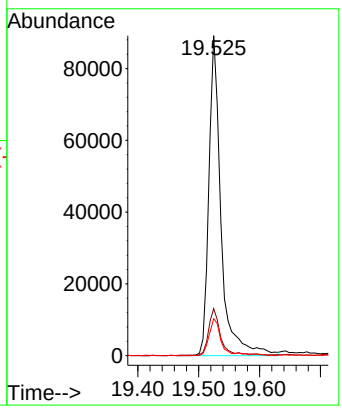


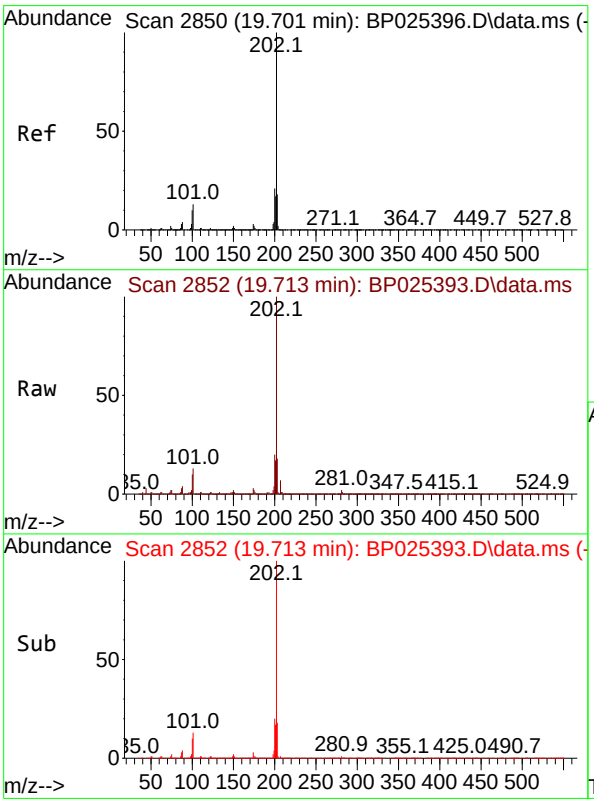
#77
Benzidine
Concen: 4.231 ng
RT: 19.525 min Scan# 2
Delta R.T. 0.012 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:184 Resp: 123915

Ion	Ratio	Lower	Upper
184	100		
185	14.7	11.5	17.3
183	11.6	9.4	14.2

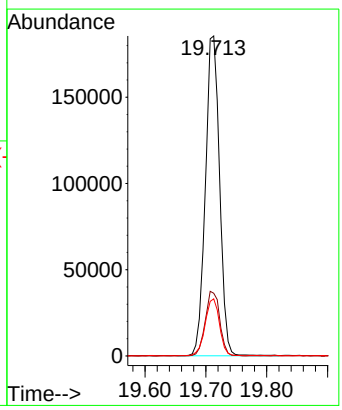


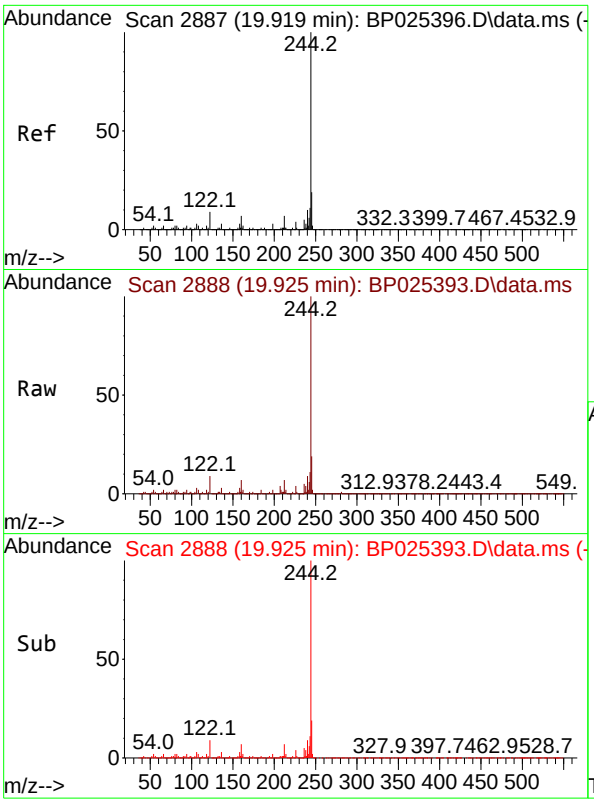


#78
Pyrene
Concen: 5.377 ng
RT: 19.713 min Scan# 2852
Delta R.T. 0.012 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:202 Resp: 299922

Ion	Ratio	Lower	Upper
202	100		
200	19.6	16.9	25.3
203	17.8	14.2	21.2



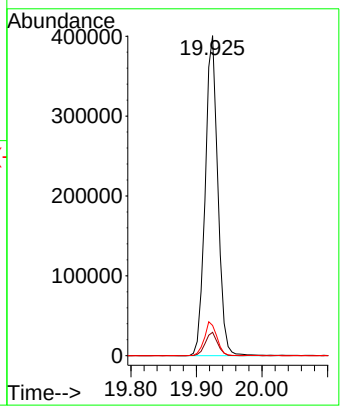


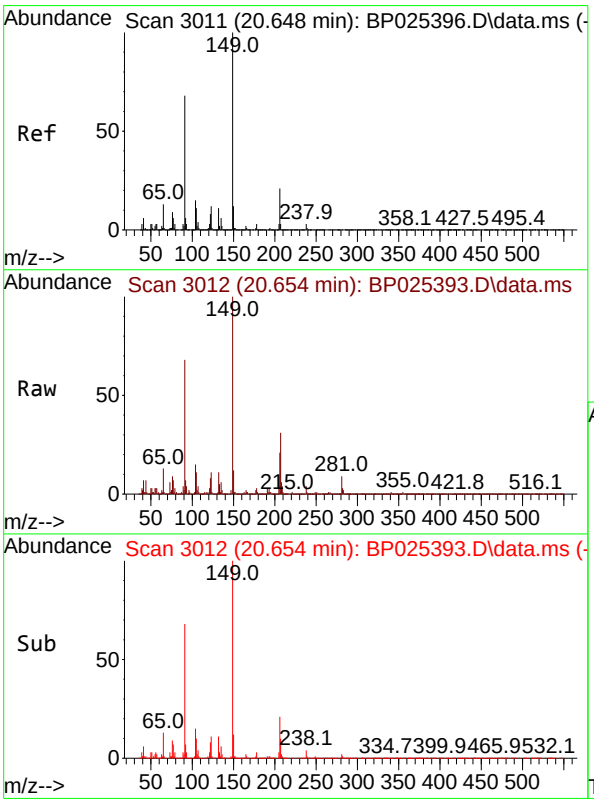
#79
Terphenyl-d14
Concen: 11.428 ng
RT: 19.925 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:244 Resp: 536049

Ion	Ratio	Lower	Upper
244	100		
212	7.3	5.8	8.6
122	9.5	7.4	11.2

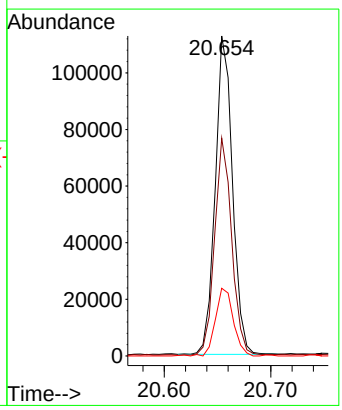


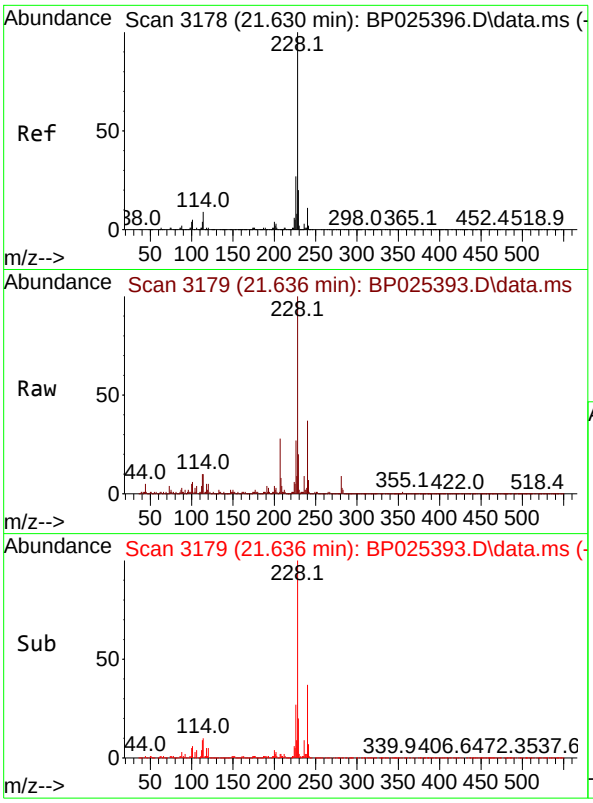


#80
Butylbenzylphthalate
Concen: 4.997 ng
RT: 20.654 min Scan# 3012
Delta R.T. 0.006 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:149 Resp: 126321

Ion	Ratio	Lower	Upper
149	100		
91	68.0	54.2	81.2
206	21.1	16.6	24.8



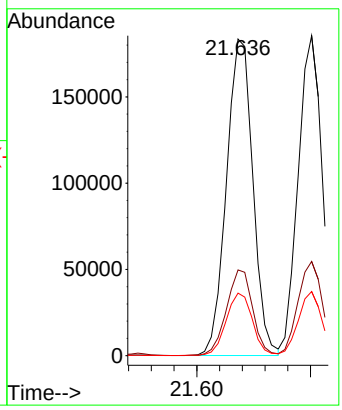


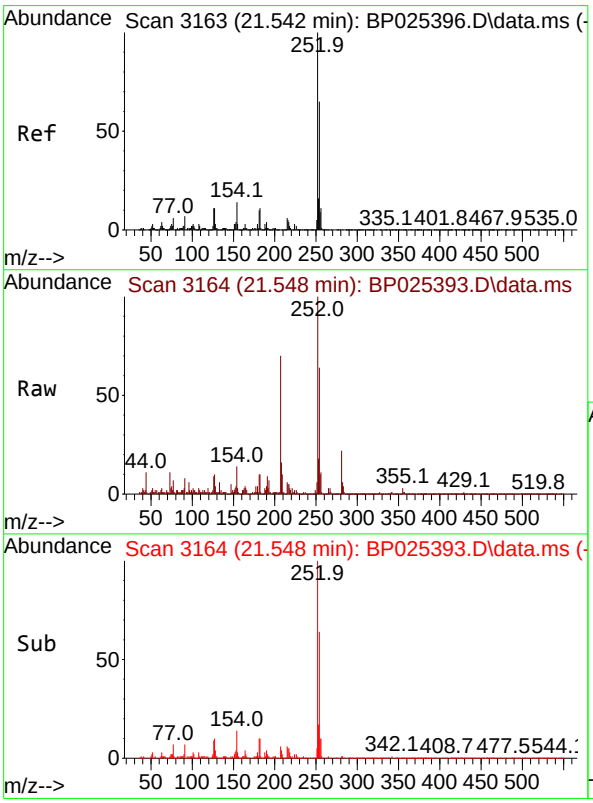
#81
Benzo(a)anthracene
Concen: 5.245 ng
RT: 21.636 min Scan# 31
Delta R.T. 0.006 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:228 Resp: 296847

Ion	Ratio	Lower	Upper
228	100		
226	27.1	21.7	32.5
229	19.8	15.6	23.4

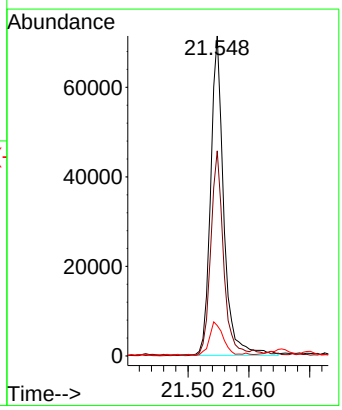


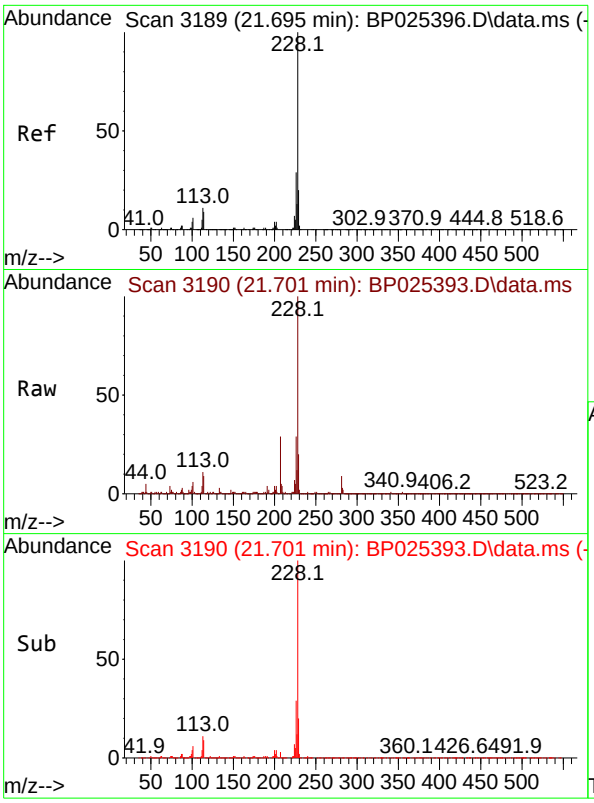


#82
3,3'-Dichlorobenzidine
Concen: 5.009 ng
RT: 21.548 min Scan# 3164
Delta R.T. 0.006 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:252 Resp: 106858

Ion	Ratio	Lower	Upper
252	100		
254	64.1	51.8	77.6
126	9.5	9.1	13.7



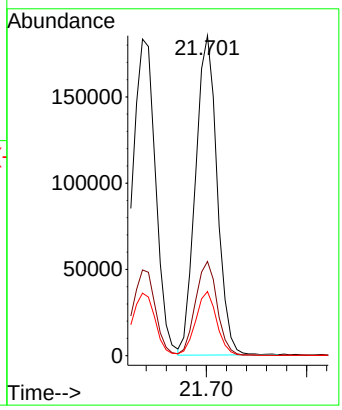


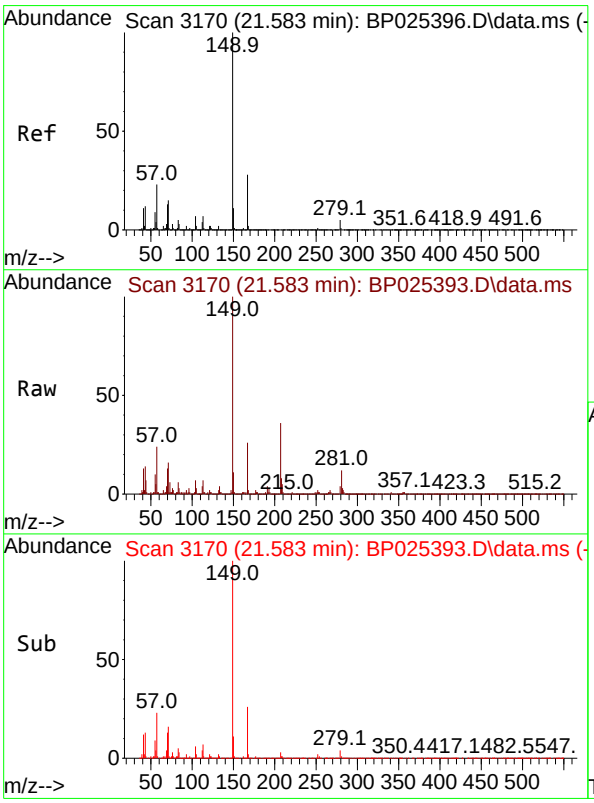
#83
Chrysene
Concen: 5.229 ng
RT: 21.701 min Scan# 3
Delta R.T. 0.006 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:228 Resp: 277175

Ion	Ratio	Lower	Upper
228	100		
226	29.5	23.2	34.8
229	20.0	15.6	23.4

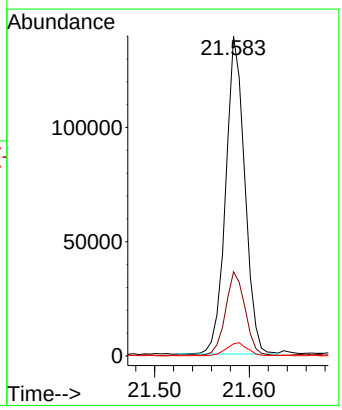


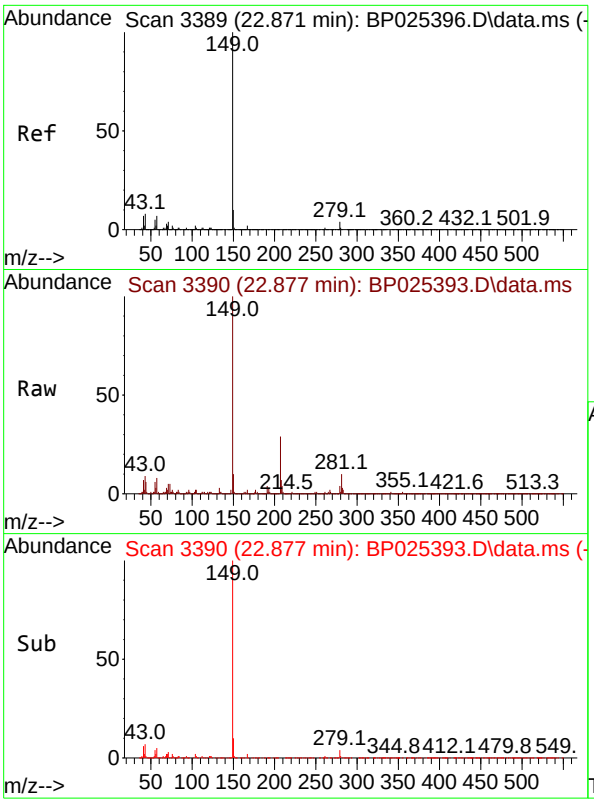


#84
Bis(2-ethylhexyl)phthalate
Concen: 5.228 ng
RT: 21.583 min Scan# 3170
Delta R.T. 0.000 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:149 Resp: 194541

Ion	Ratio	Lower	Upper
149	100		
167	26.3	22.1	33.1
279	3.8	3.8	5.6



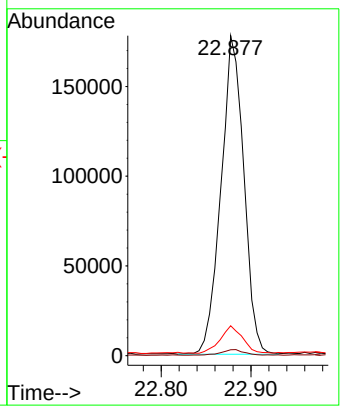


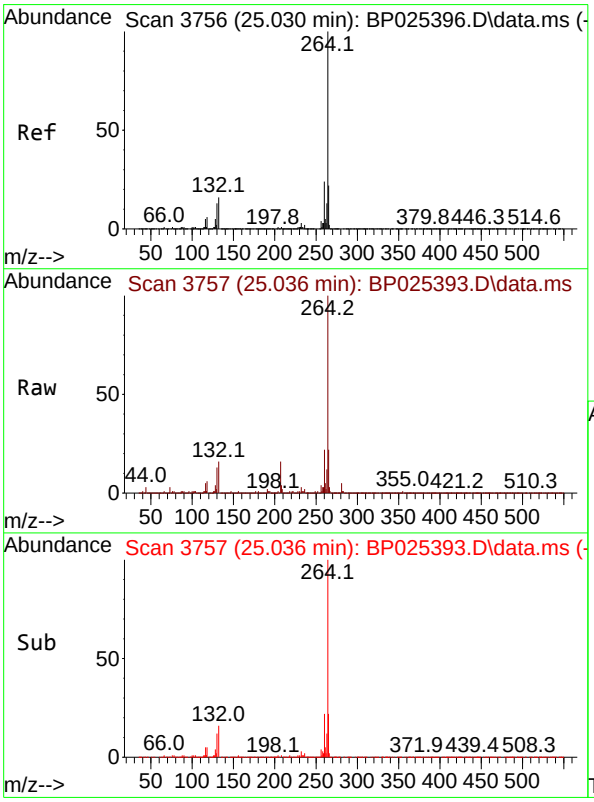
#85
Di-n-octyl phthalate
Concen: 4.898 ng
RT: 22.877 min Scan# 3
Delta R.T. 0.006 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:149 Resp: 313503

Ion	Ratio	Lower	Upper
149	100		
167	1.7	1.3	1.9
43	8.4	6.3	9.5

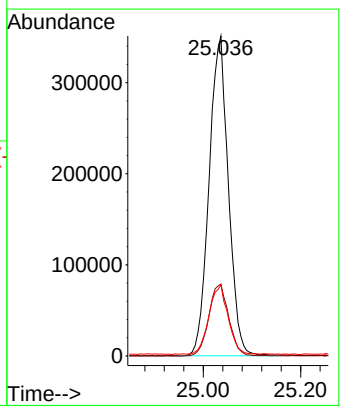


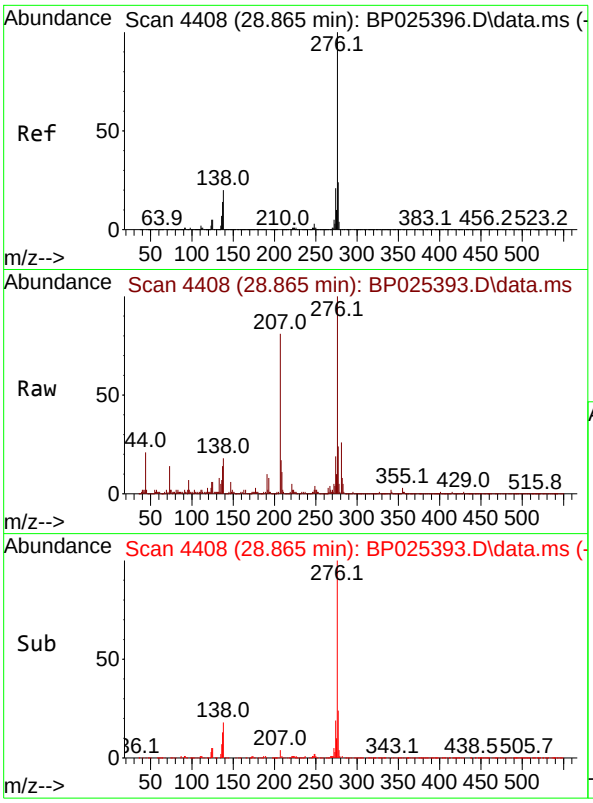


#86
Perylene-d12
Concen: 20.000 ng
RT: 25.036 min Scan# 3757
Delta R.T. 0.006 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:264 Resp: 963881

Ion	Ratio	Lower	Upper
264	100		
260	22.5	19.3	28.9
265	22.3	17.4	26.0



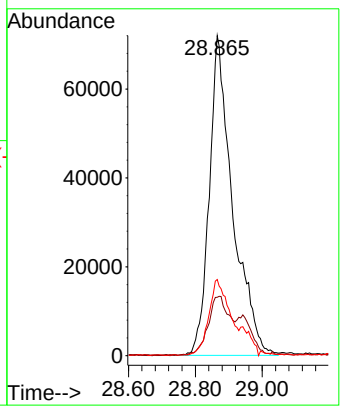


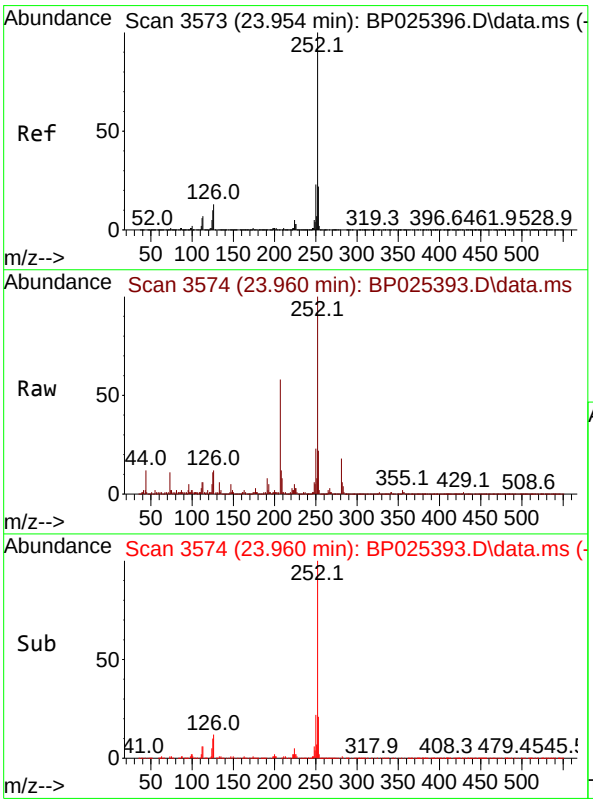
#87
Indeno(1,2,3-cd)pyrene
Concen: 4.956 ng
RT: 28.865 min Scan# 44
Delta R.T. 0.000 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:276 Resp: 350414

Ion	Ratio	Lower	Upper
276	100		
138	17.1	12.9	19.3
277	20.8	17.0	25.6

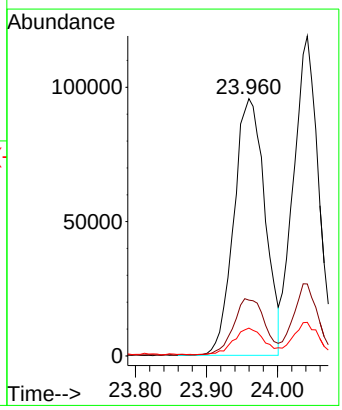


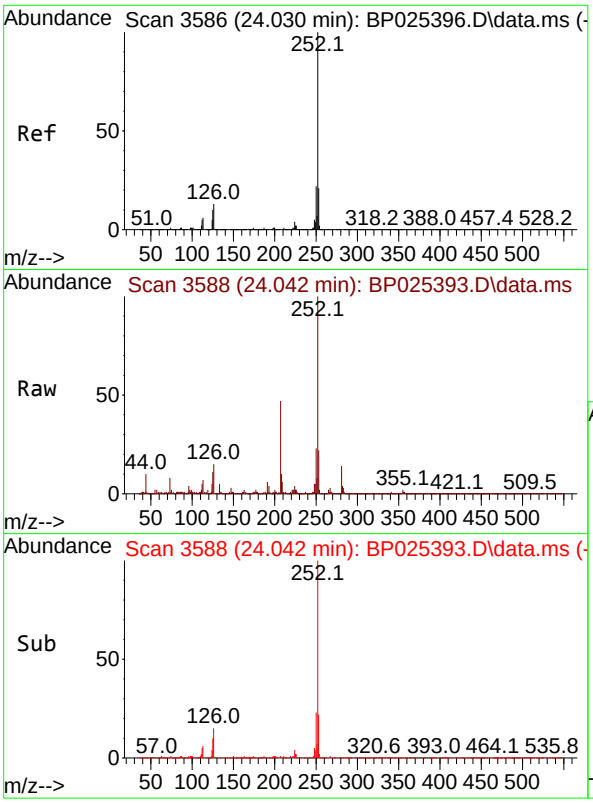


#88
Benzo(b)fluoranthene
Concen: 5.099 ng
RT: 23.960 min Scan# 3574
Delta R.T. 0.006 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:252 Resp: 289797

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.7	26.5
125	10.8	7.9	11.9



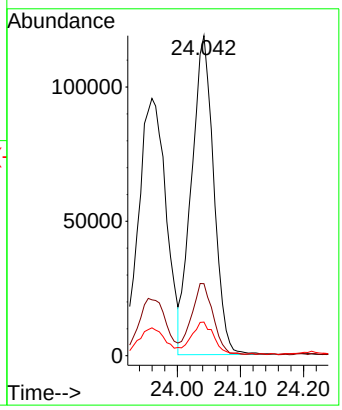


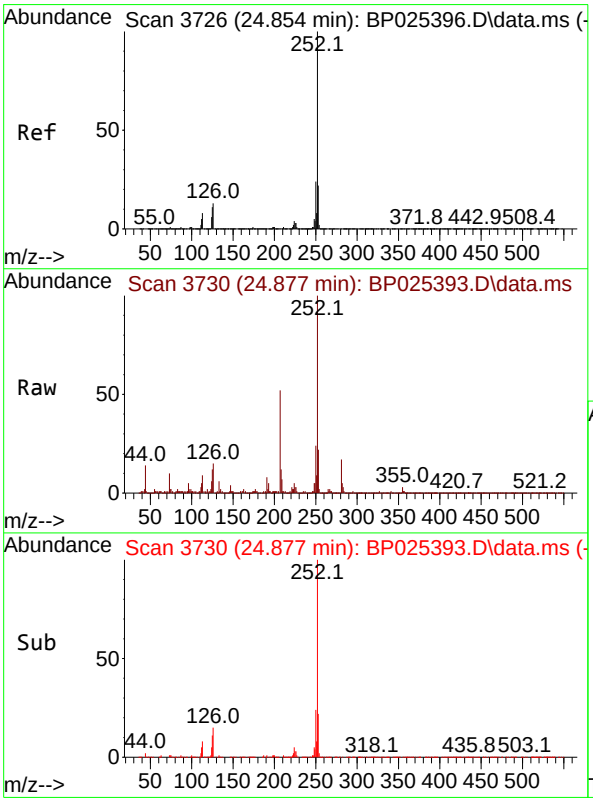
#89
Benzo(k)fluoranthene
Concen: 5.091 ng
RT: 24.042 min Scan# 3
Delta R.T. 0.012 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:252 Resp: 289556

Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.1	25.7
125	10.5	7.8	11.6

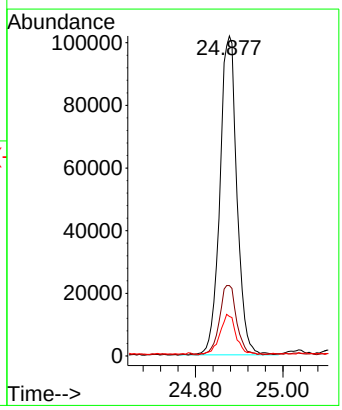


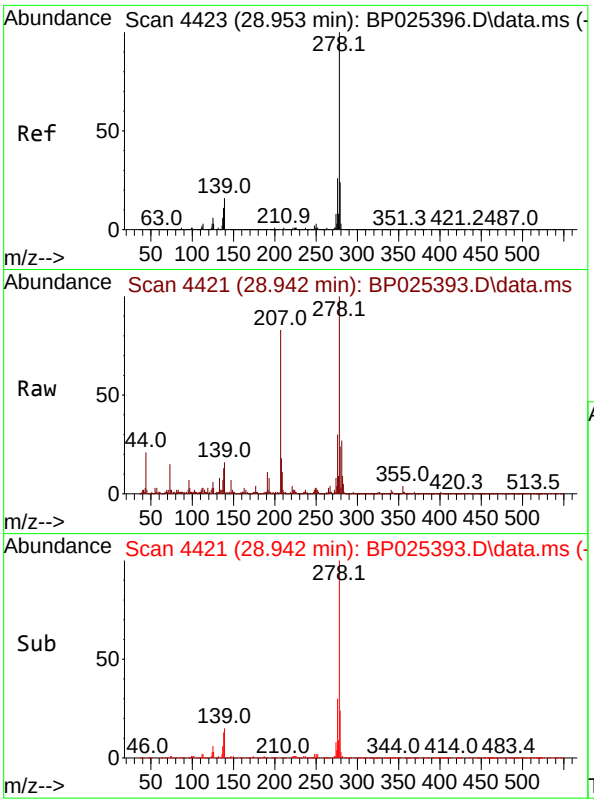


#90
Benzo(a)pyrene
Concen: 4.960 ng
RT: 24.877 min Scan# 3730
Delta R.T. 0.024 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:252 Resp: 274440

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.5	26.3
125	12.4	8.7	13.1



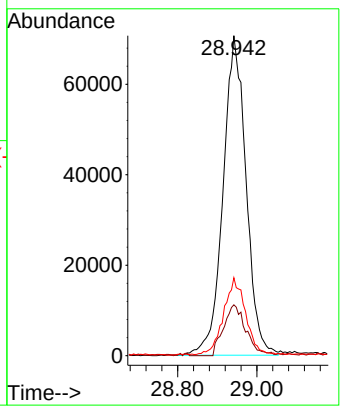


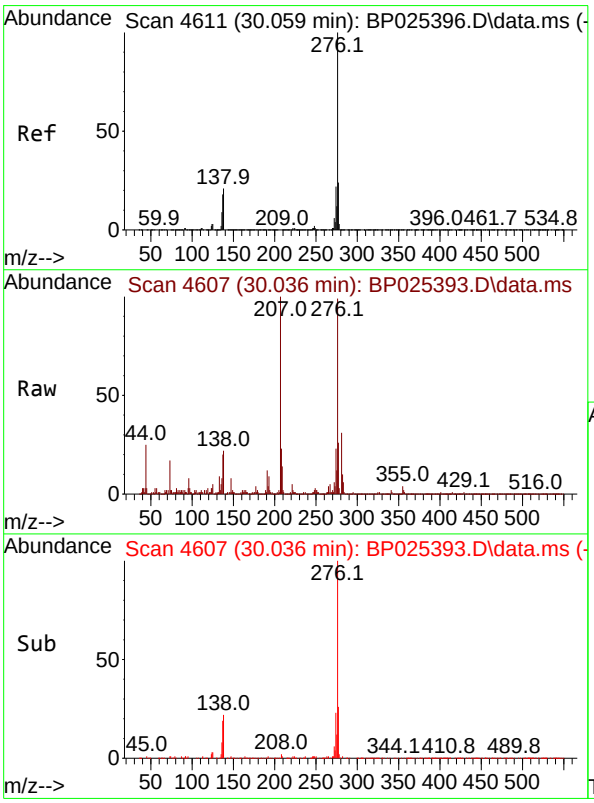
#91
Dibenzo(a,h)anthracene
Concen: 4.924 ng
RT: 28.942 min Scan# 4
Delta R.T. -0.012 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:278 Resp: 284440

Ion	Ratio	Lower	Upper
278	100		
139	15.9	13.0	19.4
279	24.3	19.4	29.2

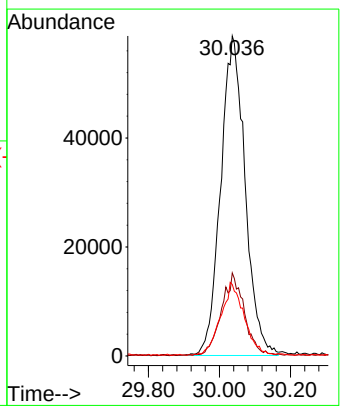




#92
Benzo(g,h,i)perylene
Concen: 4.931 ng
RT: 30.036 min Scan# 4607
Delta R.T. -0.023 min
Lab File: BP025393.D
Acq: 14 Aug 2025 13:15

Tgt Ion:276 Resp: 279987

Ion	Ratio	Lower	Upper
276	100		
277	26.0	19.4	29.0
138	22.4	16.7	25.1



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081425\
Data File : BP025394.D
Acq On : 14 Aug 2025 13:56
Operator : CG/JU
Sample : SSTDICC010
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Quant Time: Aug 14 17:53:41 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 17:44:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.790	152	137852	20.000	ng		0.00
21) Naphthalene-d8	10.566	136	563995	20.000	ng		0.00
39) Acenaphthene-d10	14.407	164	383199	20.000	ng		0.00
64) Phenanthrene-d10	17.207	188	780940	20.000	ng		0.00
76) Chrysene-d12	21.648	240	860386	20.000	ng		0.00
86) Perylene-d12	25.036	264	980670	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.408	112	162289	19.551	ng		0.00
7) Phenol-d6	6.966	99	202204	19.000	ng		0.00
23) Nitrobenzene-d5	8.931	82	212236	19.036	ng		0.00
42) 2,4,6-Tribromophenol	15.919	330	99083	19.210	ng		0.00
45) 2-Fluorobiphenyl	13.019	172	568359	20.271	ng		0.00
79) Terphenyl-d14	19.924	244	946422	20.125	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.331	88	31948	9.826	ng		98
3) Pyridine	3.731	79	86156	9.681	ng		100
4) n-Nitrosodimethylamine	3.637	42	35519	9.681	ng	#	99
6) Aniline	7.125	93	135217	9.430	ng		99
8) 2-Chlorophenol	7.366	128	88413	9.439	ng		98
9) Benzaldehyde	6.943	77	68523	9.190	ng		96
10) Phenol	6.996	94	105394	9.438	ng		99
11) bis(2-Chloroethyl)ether	7.219	93	81541	9.368	ng		98
12) 1,3-Dichlorobenzene	7.684	146	98782	9.564	ng		98
13) 1,4-Dichlorobenzene	7.825	146	102729	9.731	ng		98
14) 1,2-Dichlorobenzene	8.143	146	98589	9.647	ng		98
15) Benzyl Alcohol	8.025	79	78411	9.273	ng		99
16) 2,2'-oxybis(1-Chloropr...	8.313	45	109744	9.412	ng		99
17) 2-Methylphenol	8.231	107	70991	9.153	ng		98
18) Hexachloroethane	8.866	117	37473	9.654	ng		98
19) n-Nitroso-di-n-propyla...	8.584	70	66105	9.366	ng		99
20) 3+4-Methylphenols	8.549	107	99382	9.244	ng		97
22) Acetophenone	8.602	105	137361	9.712	ng	#	98
24) Nitrobenzene	8.972	77	96502	9.685	ng		97
25) Isophorone	9.502	82	189510	9.604	ng		99
26) 2-Nitrophenol	9.678	139	45860	8.968	ng		96
27) 2,4-Dimethylphenol	9.737	122	85465	9.718	ng		98
28) bis(2-Chloroethoxy)met...	9.972	93	114635	9.611	ng		99
29) 2,4-Dichlorophenol	10.213	162	82676	9.464	ng		97
30) 1,2,4-Trichlorobenzene	10.431	180	92664	9.676	ng		94
31) Naphthalene	10.613	128	287754	9.816	ng		99
32) Benzoic acid	9.825	122	44404	6.856	ng		93
33) 4-Chloroaniline	10.713	127	122647	9.472	ng		98
34) Hexachlorobutadiene	10.901	225	57821	9.695	ng		97
35) Caprolactam	11.472	113	32038	10.001	ng		93
36) 4-Chloro-3-methylphenol	11.837	107	94538	9.431	ng		97
37) 2-Methylnaphthalene	12.219	142	184172	9.654	ng		100
38) 1-Methylnaphthalene	12.437	142	199160	9.817	ng		97
40) 1,2,4,5-Tetrachloroben...	12.590	216	107104	9.678	ng		99
41) Hexachlorocyclopentadiene	12.572	237	52588	7.867	ng		97
43) 2,4,6-Trichlorophenol	12.831	196	69780	9.339	ng		97

Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081425\
Data File : BP025394.D
Acq On : 14 Aug 2025 13:56
Operator : CG/JU
Sample : SSTDICC010
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Quant Time: Aug 14 17:53:41 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 17:44:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	12.901	196	73744	9.006	ng		98
46) 1,1'-Biphenyl	13.237	154	271710	9.763	ng		98
47) 2-Chloronaphthalene	13.272	162	209419	9.666	ng		99
48) 2-Nitroaniline	13.466	65	58630	9.287	ng		97
49) Acenaphthylene	14.119	152	346021	9.652	ng		99
50) Dimethylphthalate	13.860	163	277701	9.896	ng		99
51) 2,6-Dinitrotoluene	13.972	165	54957	9.292	ng		96
52) Acenaphthene	14.472	154	218284	10.373	ng		98
53) 3-Nitroaniline	14.301	138	62991	9.466	ng		93
54) 2,4-Dinitrophenol	14.513	184	21748	6.886	ng		99
55) Dibenzofuran	14.807	168	327734	9.851	ng		100
56) 4-Nitrophenol	14.625	139	48103	8.797	ng		97
57) 2,4-Dinitrotoluene	14.766	165	77950	9.237	ng		100
58) Fluorene	15.472	166	266610	10.156	ng		96
59) 2,3,4,6-Tetrachlorophenol	15.042	232	68931	9.533	ng		99
60) Diethylphthalate	15.242	149	282526	9.909	ng		98
61) 4-Chlorophenyl-phenyle...	15.466	204	131137	10.044	ng		99
62) 4-Nitroaniline	15.478	138	64375	9.437	ng		99
63) Azobenzene	15.766	77	234879	9.620	ng		98
65) 4,6-Dinitro-2-methylph...	15.542	198	37380	7.679	ng		97
66) n-Nitrosodiphenylamine	15.684	169	235344	9.883	ng		100
67) 4-Bromophenyl-phenylether	16.384	248	80373	9.358	ng		98
68) Hexachlorobenzene	16.501	284	98614	9.905	ng		96
69) Atrazine	16.660	200	88240	9.894	ng		98
70) Pentachlorophenol	16.854	266	52539	8.360	ng		97
71) Phenanthrene	17.248	178	429752	10.018	ng		99
72) Anthracene	17.348	178	438953	10.020	ng		100
73) Carbazole	17.619	167	410726	9.954	ng		99
74) Di-n-butylphthalate	18.219	149	490232	9.656	ng		99
75) Fluoranthene	19.330	202	516523	10.094	ng		99
77) Benzidine	19.525	184	276193	9.406	ng		99
78) Pyrene	19.707	202	542670	9.704	ng		100
80) Butylbenzylphthalate	20.660	149	239416	9.446	ng		98
81) Benzo(a)anthracene	21.624	228	560279	9.874	ng		99
82) 3,3'-Dichlorobenzidine	21.554	252	207153	9.686	ng		99
83) Chrysene	21.701	228	522411	9.831	ng		99
84) Bis(2-ethylhexyl)phtha...	21.583	149	355530	9.529	ng		99
85) Di-n-octyl phthalate	22.877	149	594195	9.259	ng		99
87) Indeno(1,2,3-cd)pyrene	28.853	276	582808	8.101	ng	#	93
88) Benzo(b)fluoranthene	23.954	252	552191	9.549	ng		99
89) Benzo(k)fluoranthene	24.018	252	567080	9.800	ng		98
90) Benzo(a)pyrene	24.854	252	535820	9.519	ng		99
91) Dibenzo(a,h)anthracene	28.959	278	551694	9.387	ng		99
92) Benzo(g,h,i)perylene	30.047	276	548117	9.489	ng		99

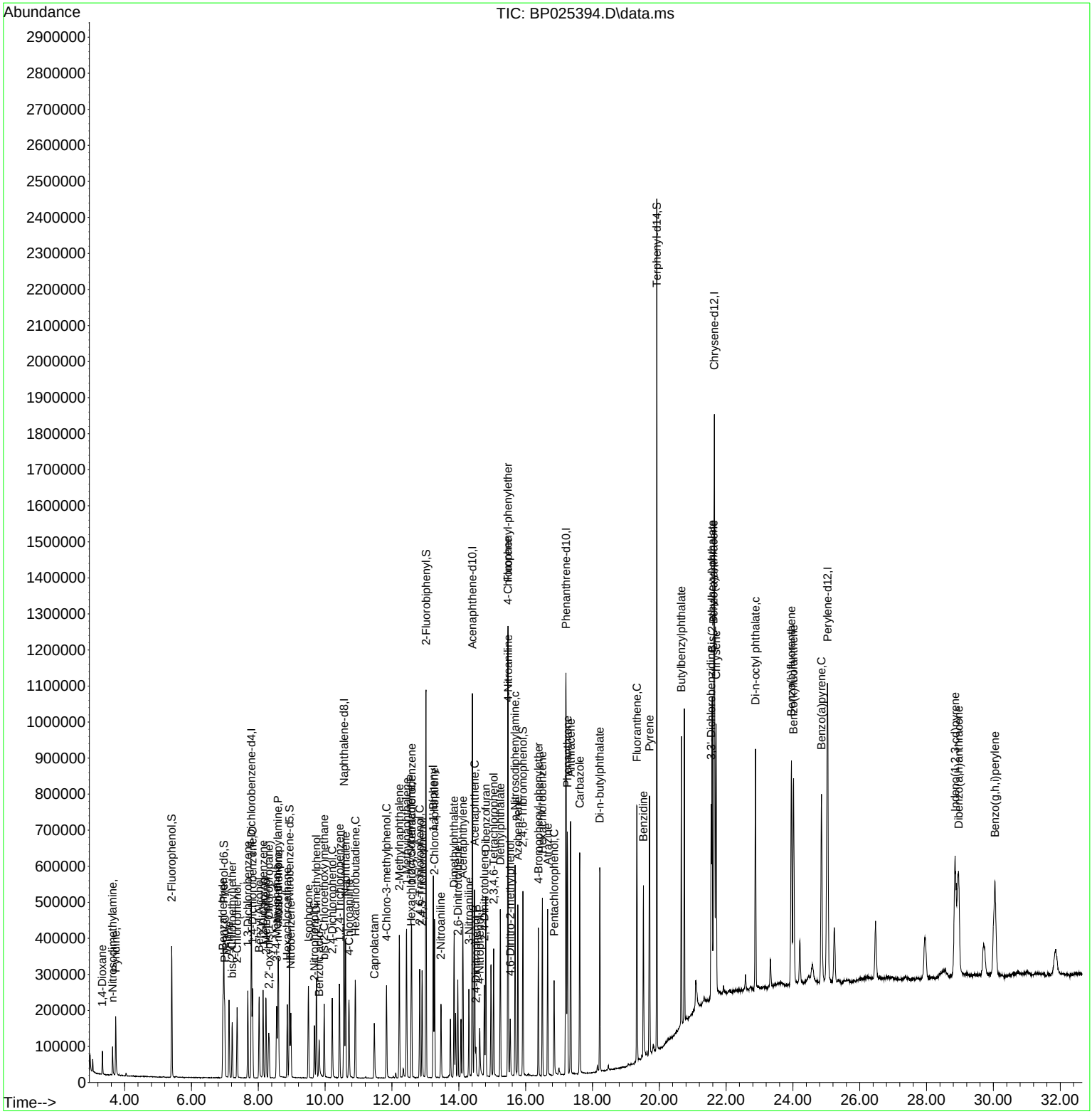
(#) = qualifier out of range (m) = manual integration (+) = signals summed

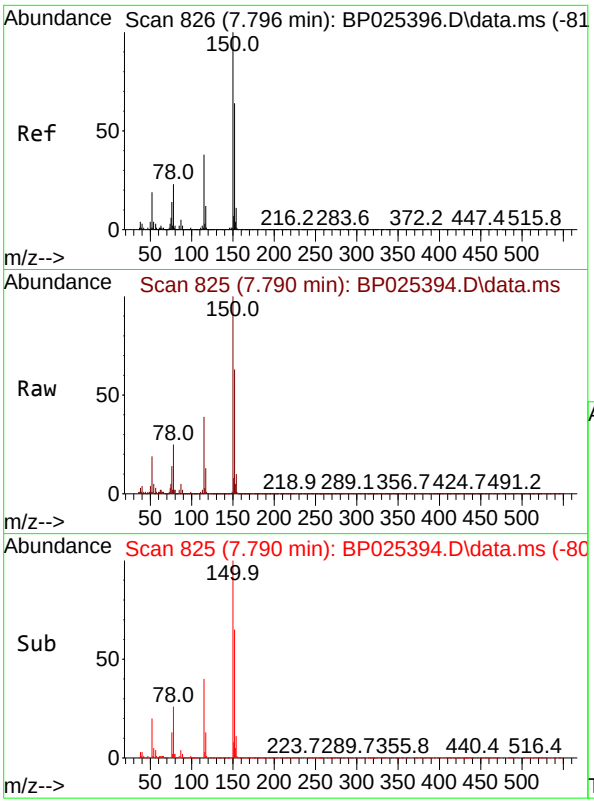
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081425\
Data File : BP025394.D
Acq On : 14 Aug 2025 13:56
Operator : CG/JU
Sample : SSTDICC010
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Quant Time: Aug 14 17:53:41 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 17:44:43 2025
Response via : Initial Calibration



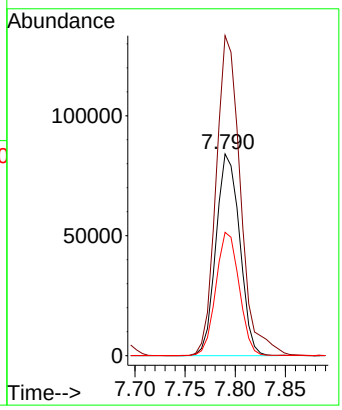


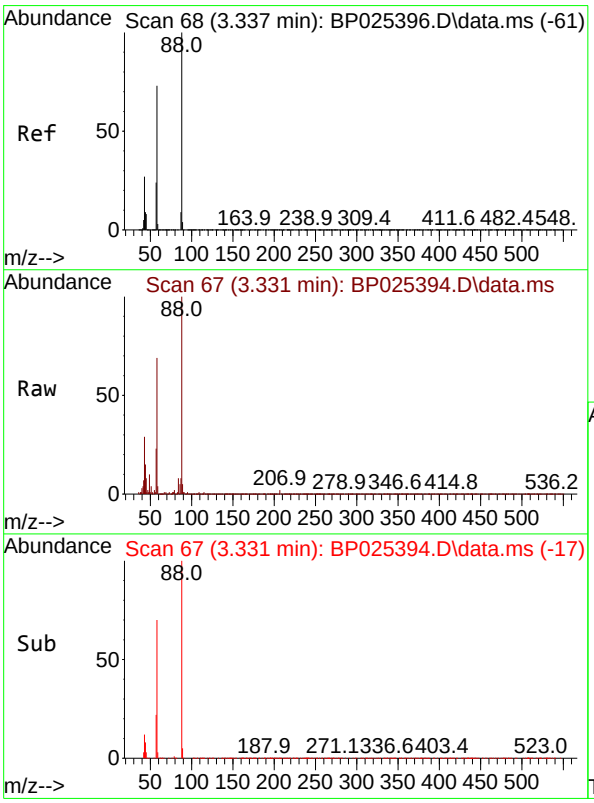
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.790 min Scan# 8
Delta R.T. -0.006 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:152 Resp: 137852

Ion	Ratio	Lower	Upper
152	100		
150	158.6	125.9	188.9
115	61.1	48.5	72.7

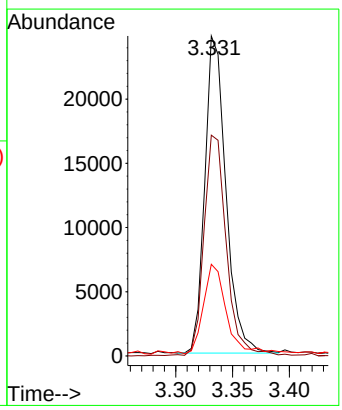


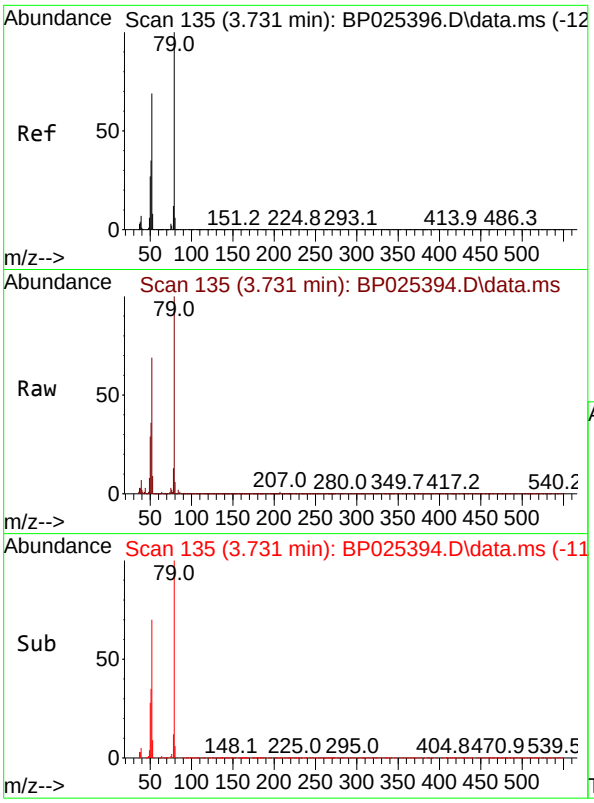


#2
1,4-Dioxane
Concen: 9.826 ng
RT: 3.331 min Scan# 67
Delta R.T. -0.006 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion: 88 Resp: 31948

Ion	Ratio	Lower	Upper
88	100		
58	74.0	59.2	88.8
43	30.8	21.7	32.5



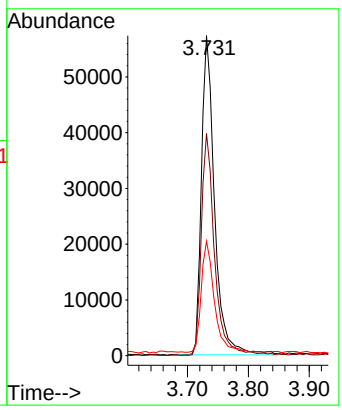


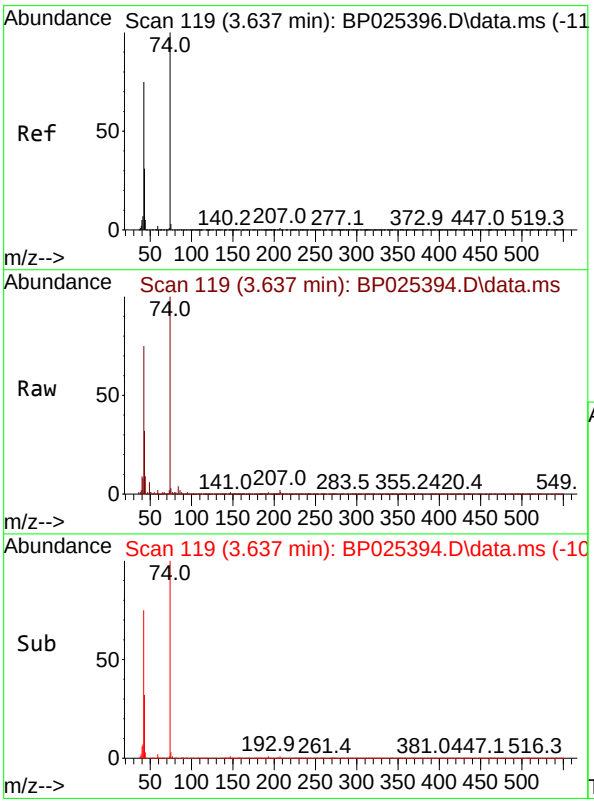
#3
Pyridine
Concen: 9.681 ng
RT: 3.731 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion: 79 Resp: 86156

Ion	Ratio	Lower	Upper
79	100		
52	69.4	55.5	83.3
51	35.8	28.3	42.5

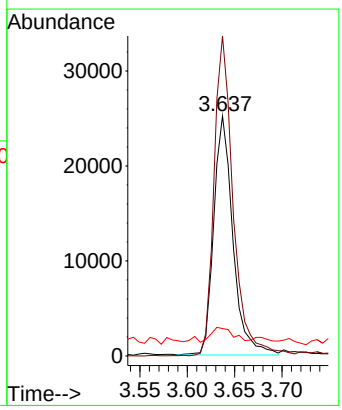


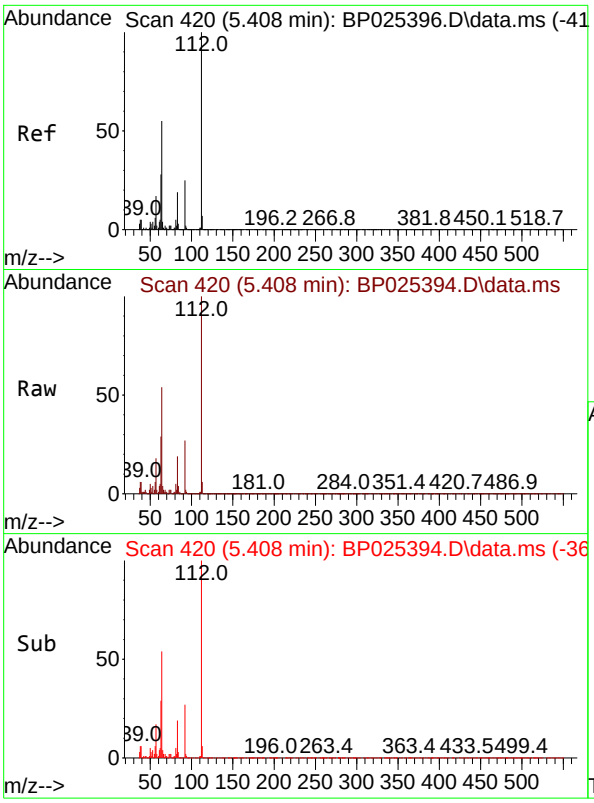


#4
n-Nitrosodimethylamine
Concen: 9.681 ng
RT: 3.637 min Scan# 119
Delta R.T. 0.000 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion: 42 Resp: 35519

Ion	Ratio	Lower	Upper
42	100		
74	133.3	107.0	160.4
44	11.4	6.2	9.4#



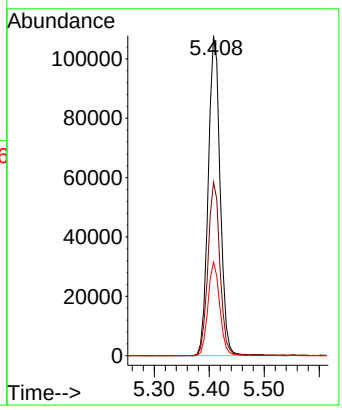


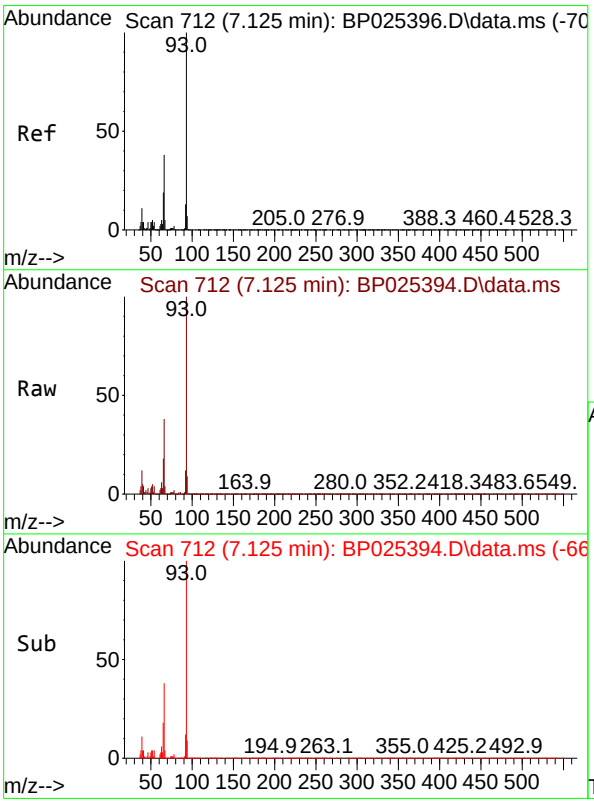
#5
2-Fluorophenol
Concen: 19.551 ng
RT: 5.408 min Scan# 4
Delta R.T. 0.000 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:112 Resp: 162289

Ion	Ratio	Lower	Upper
112	100		
64	54.3	43.8	65.8
63	29.3	22.7	34.1

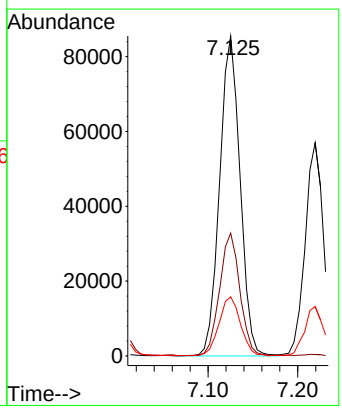


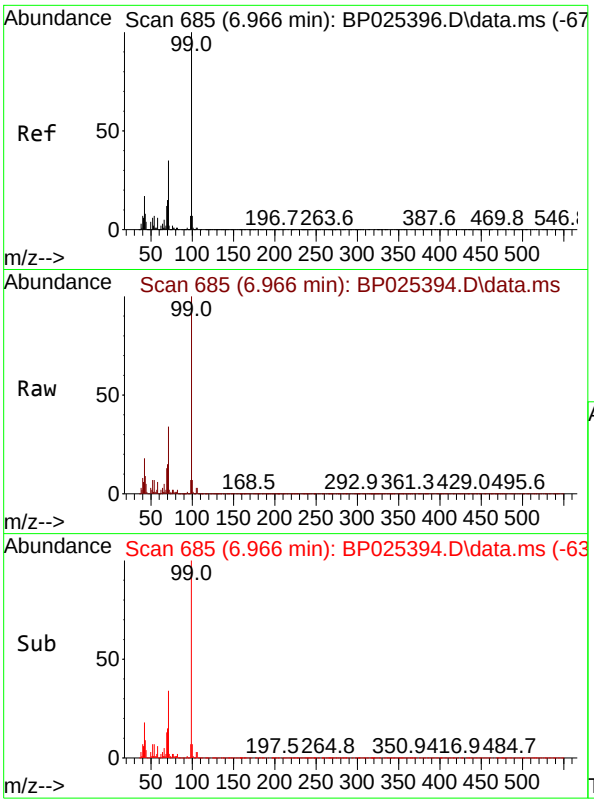


#6
Aniline
Concen: 9.430 ng
RT: 7.125 min Scan# 712
Delta R.T. 0.000 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion: 93 Resp: 135217

Ion	Ratio	Lower	Upper
93	100		
66	38.4	30.4	45.6
65	18.5	15.3	22.9



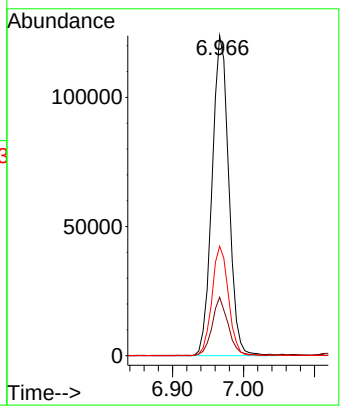


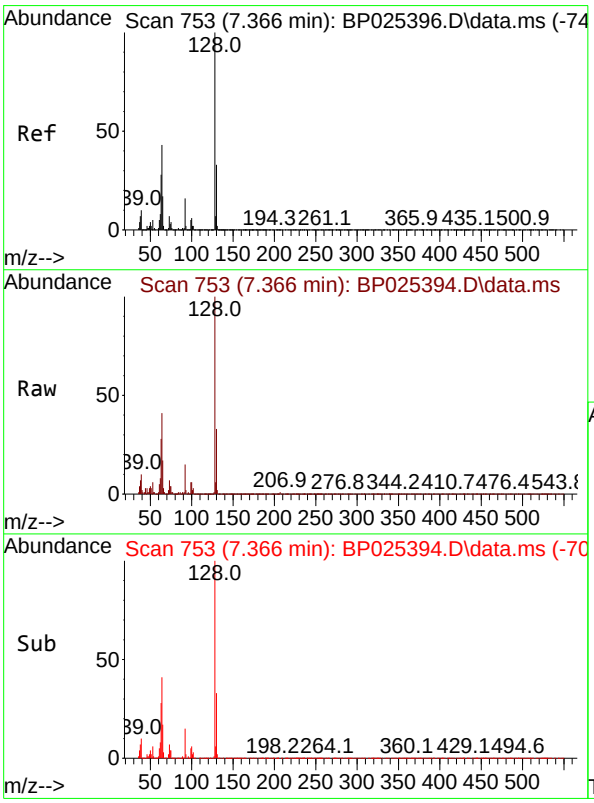
#7
Phenol-d6
Concen: 19.000 ng
RT: 6.966 min Scan# 6
Delta R.T. 0.000 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion: 99 Resp: 202204

Ion	Ratio	Lower	Upper
99	100		
42	18.3	13.7	20.5
71	34.2	28.2	42.4

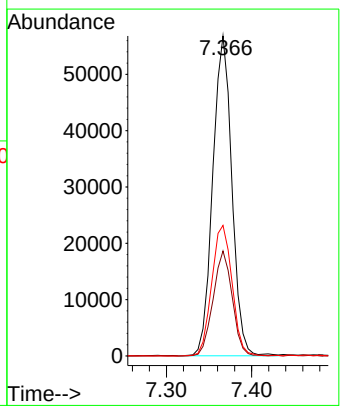


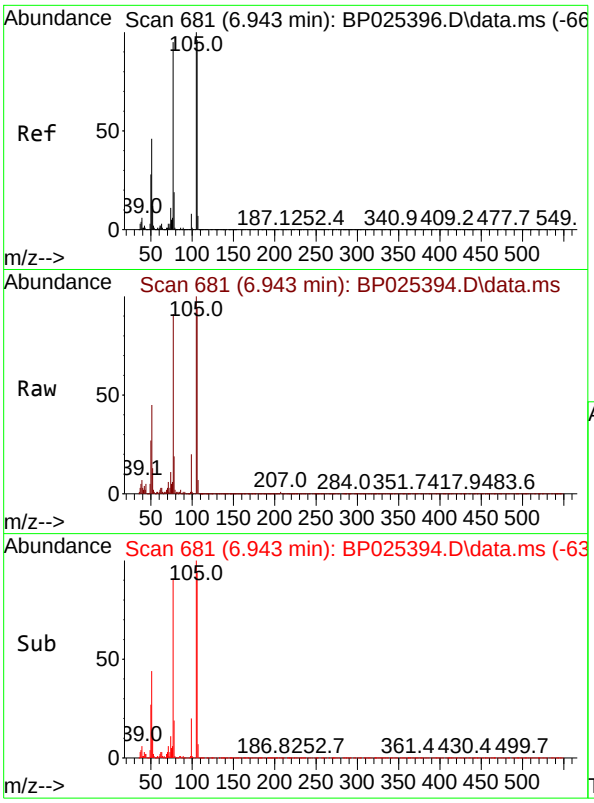


#8
2-Chlorophenol
Concen: 9.439 ng
RT: 7.366 min Scan# 753
Delta R.T. 0.000 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:128 Resp: 88413

Ion	Ratio	Lower	Upper
128	100		
130	32.8	12.6	52.6
64	40.8	23.4	63.4



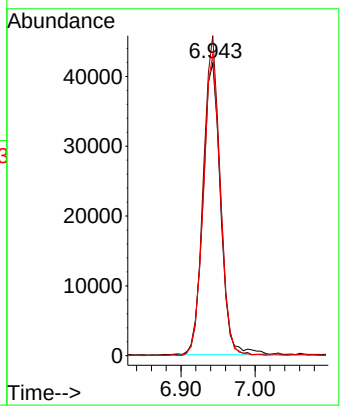


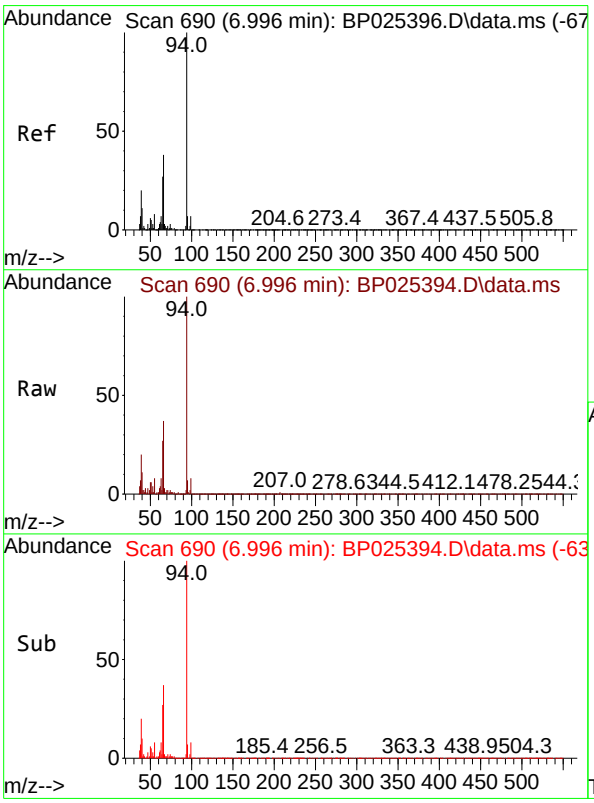
#9
Benzaldehyde
Concen: 9.190 ng
RT: 6.943 min Scan# 6
Delta R.T. 0.000 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion: 77 Resp: 68523

Ion	Ratio	Lower	Upper
77	100		
105	109.4	84.8	124.8
106	103.0	80.5	120.5

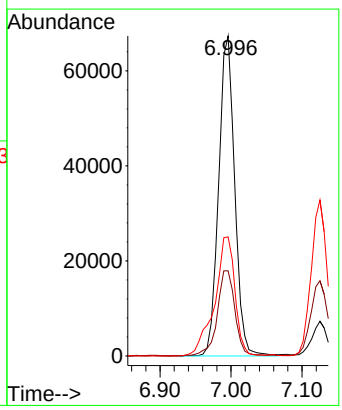


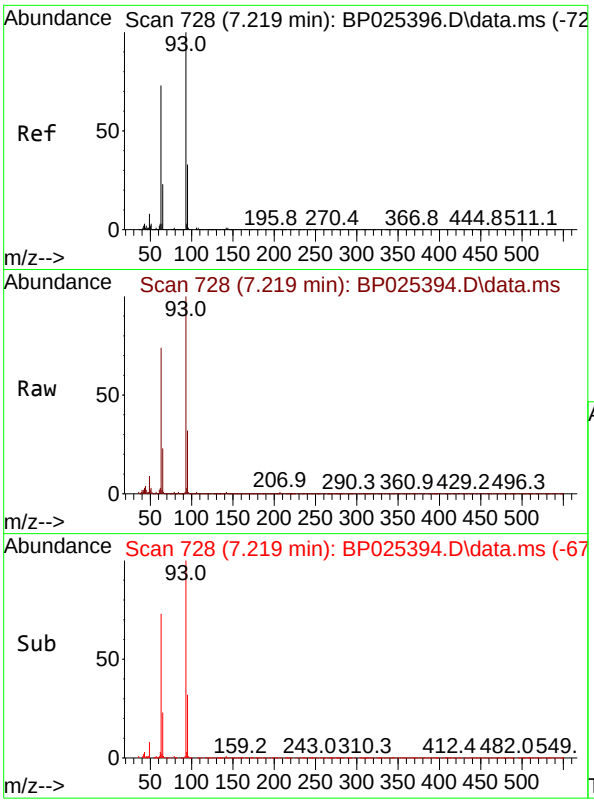


#10
Phenol
Concen: 9.438 ng
RT: 6.996 min Scan# 690
Delta R.T. 0.000 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion: 94 Resp: 105394

Ion	Ratio	Lower	Upper
94	100		
65	26.6	6.8	46.8
66	37.2	18.2	58.2



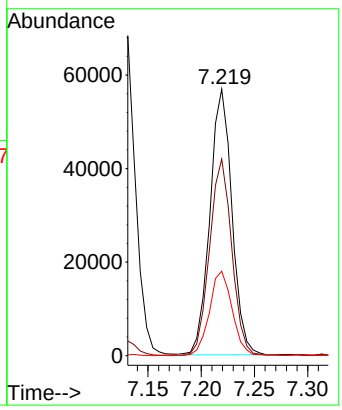


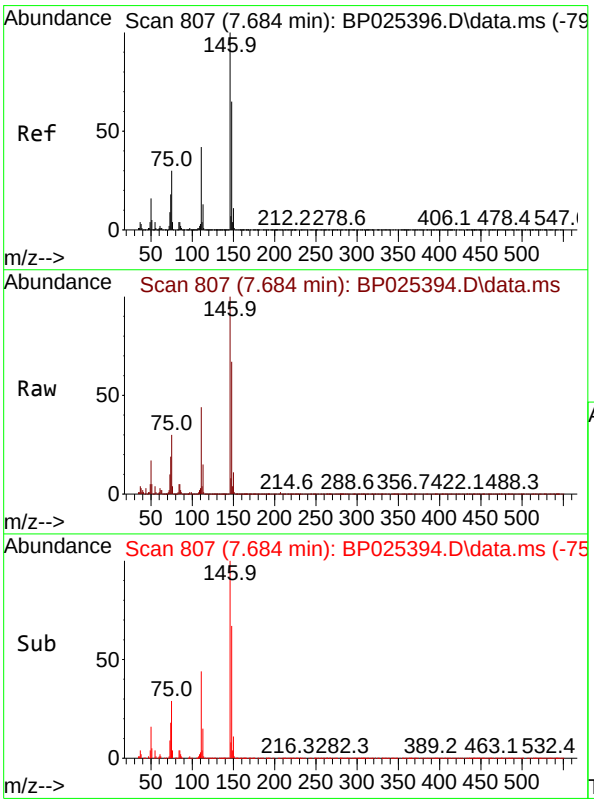
#11
bis(2-Chloroethyl)ether
Concen: 9.368 ng
RT: 7.219 min Scan# 7
Delta R.T. 0.000 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion: 93 Resp: 81541

Ion	Ratio	Lower	Upper
93	100		
63	73.7	52.6	92.6
95	31.7	12.7	52.7

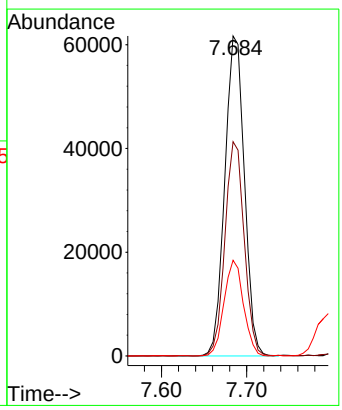


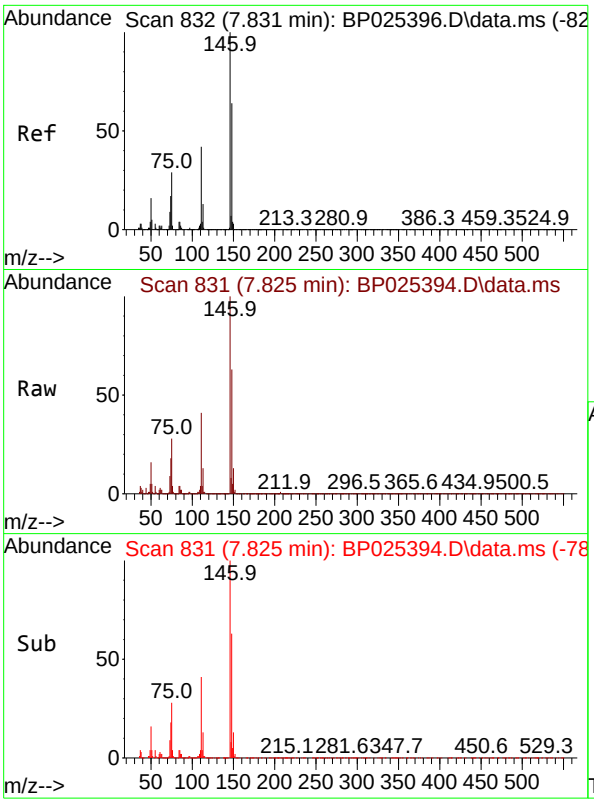


#12
1,3-Dichlorobenzene
Concen: 9.564 ng
RT: 7.684 min Scan# 807
Delta R.T. 0.000 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:146 Resp: 98782

Ion	Ratio	Lower	Upper
146	100		
148	67.0	51.9	77.9
75	29.9	23.7	35.5



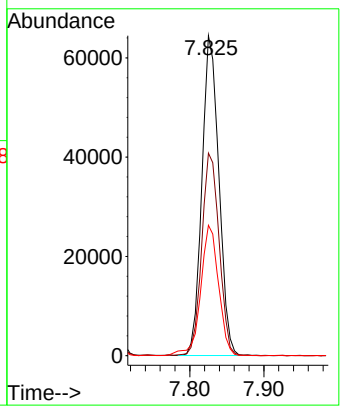


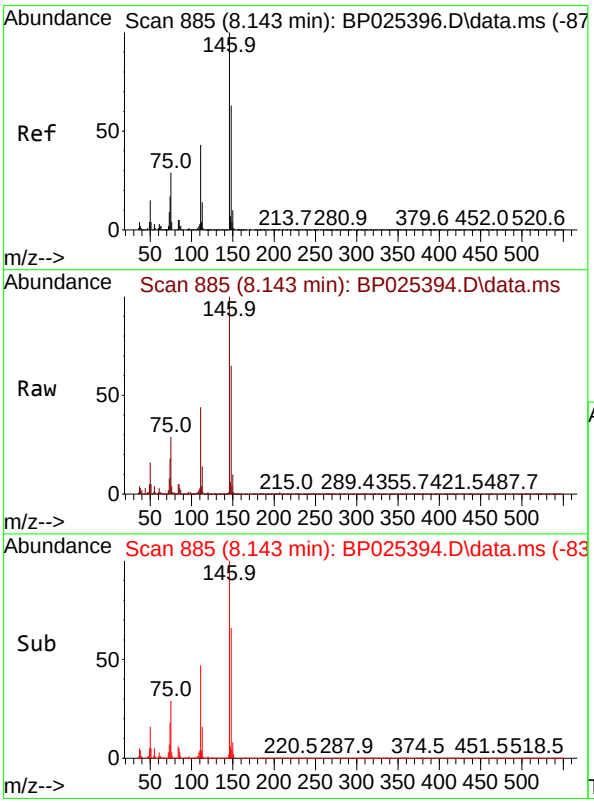
#13
1,4-Dichlorobenzene
Concen: 9.731 ng
RT: 7.825 min Scan# 8
Delta R.T. -0.006 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:146 Resp: 102729

Ion	Ratio	Lower	Upper
146	100		
148	63.3	51.6	77.4
111	40.8	33.4	50.0

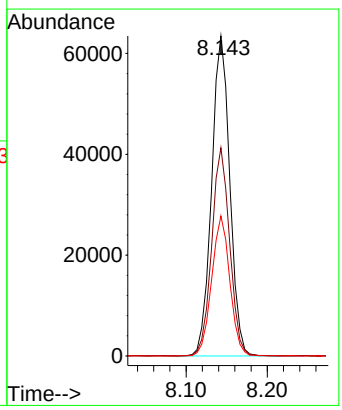


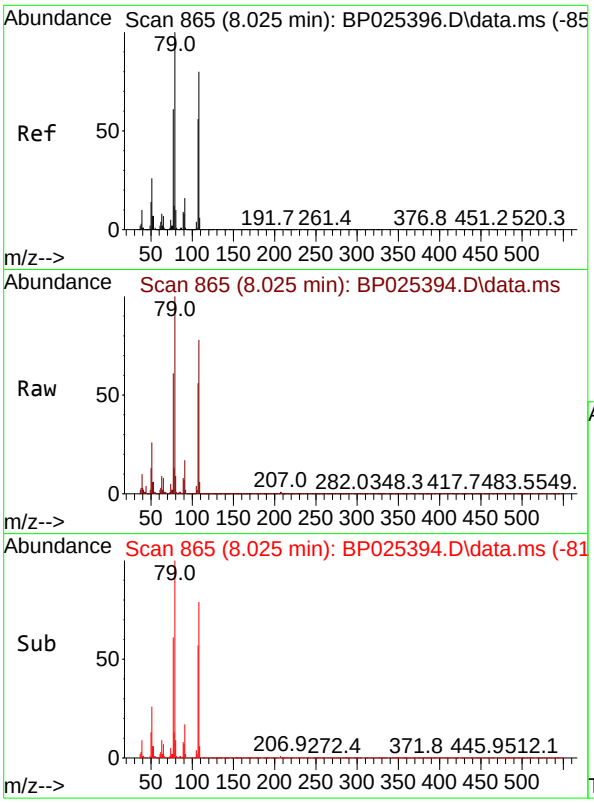


#14
1,2-Dichlorobenzene
Concen: 9.647 ng
RT: 8.143 min Scan# 885
Delta R.T. 0.000 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:146 Resp: 98589

Ion	Ratio	Lower	Upper
146	100		
148	65.1	50.4	75.6
111	43.7	34.5	51.7



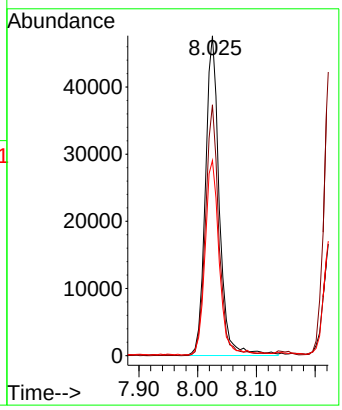


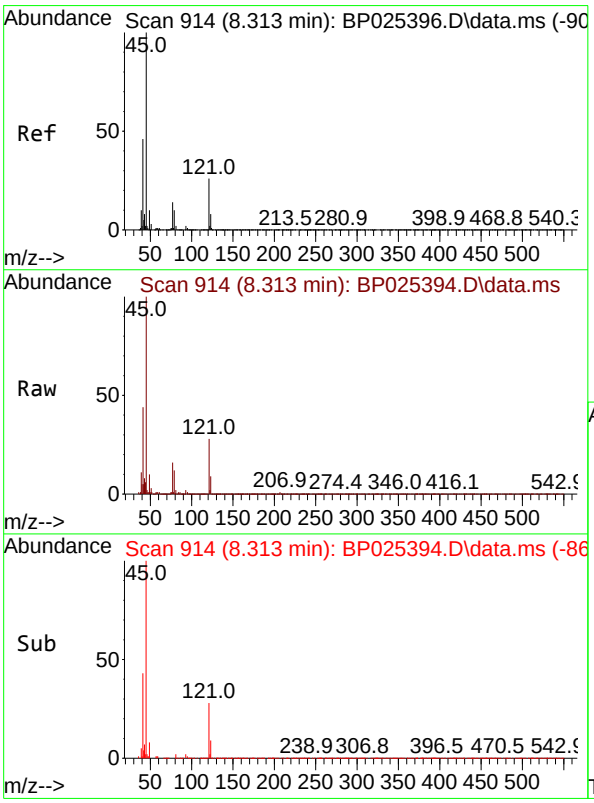
#15
Benzyl Alcohol
Concen: 9.273 ng
RT: 8.025 min Scan# 8
Delta R.T. 0.000 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion: 79 Resp: 78411

Ion	Ratio	Lower	Upper
79	100		
108	78.4	63.8	95.6
77	61.0	49.0	73.4

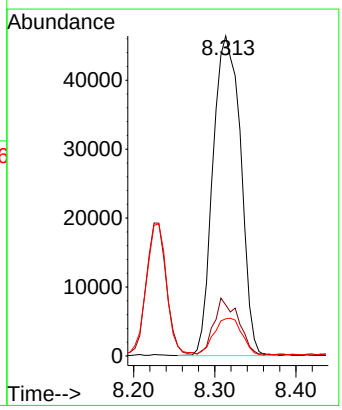


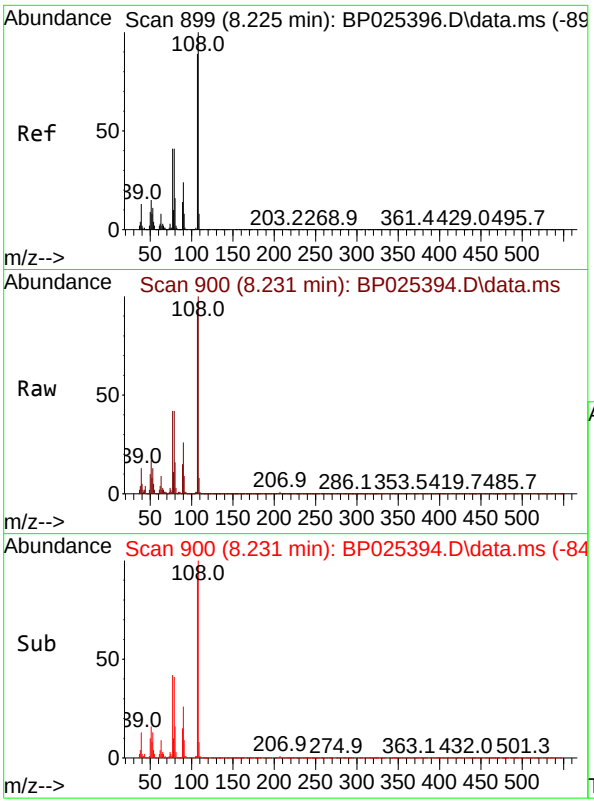


#16
2,2'-oxybis(1-Chloropropane)
Concen: 9.412 ng
RT: 8.313 min Scan# 914
Delta R.T. 0.000 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion: 45 Resp: 109744

Ion	Ratio	Lower	Upper
45	100		
77	15.9	0.0	35.3
79	11.6	0.0	31.8



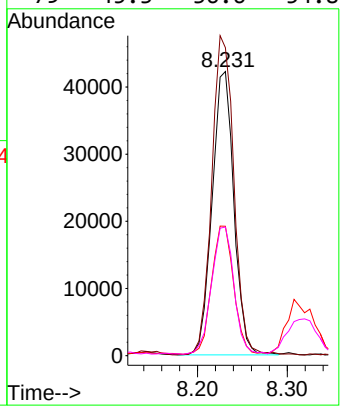


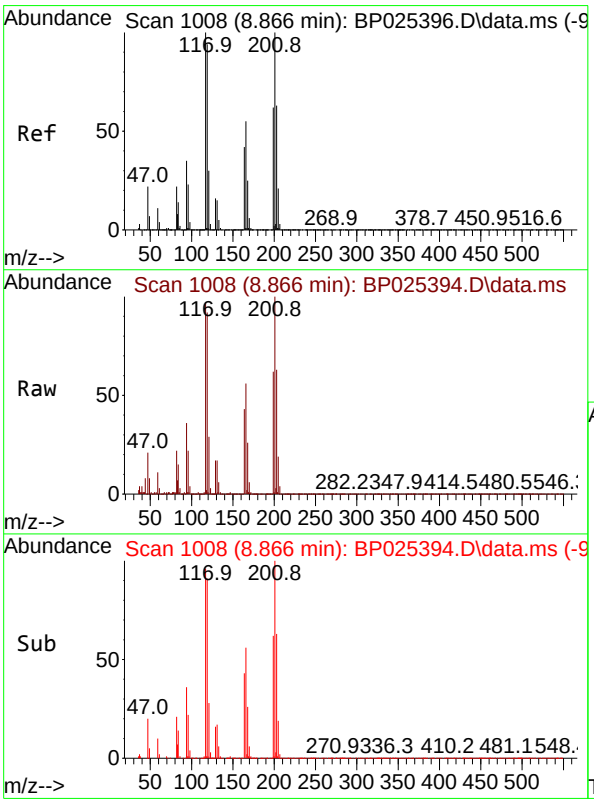
#17
2-Methylphenol
Concen: 9.153 ng
RT: 8.231 min Scan# 9
Delta R.T. 0.006 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:107 Resp: 70991

Ion	Ratio	Lower	Upper
107	100		
108	108.4	89.4	134.0
77	45.5	36.3	54.5
79	45.3	36.6	54.8

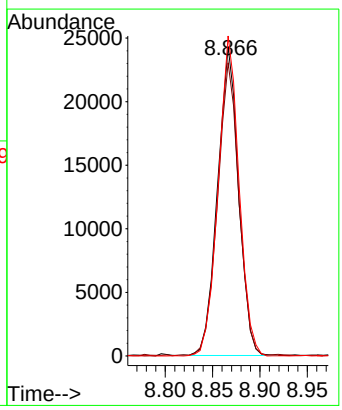


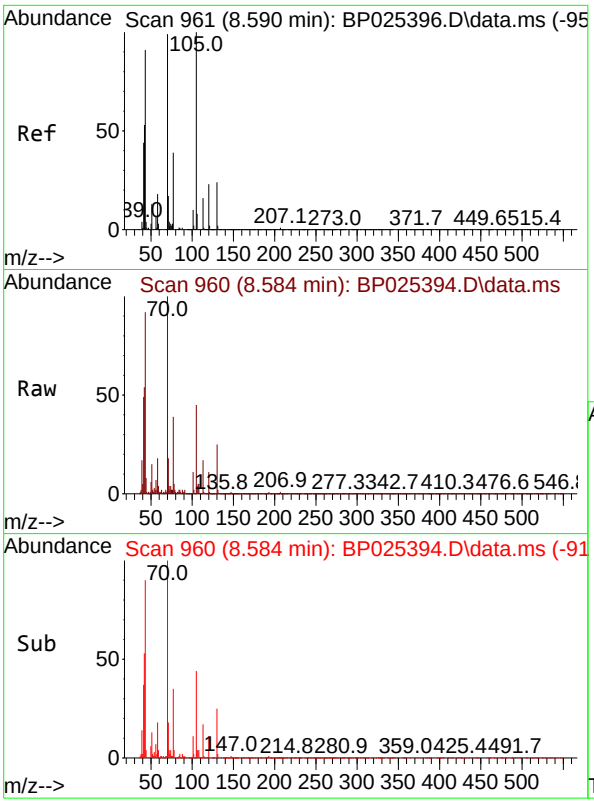


#18
Hexachloroethane
Concen: 9.654 ng
RT: 8.866 min Scan# 1008
Delta R.T. 0.000 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:117 Resp: 37473

Ion	Ratio	Lower	Upper
117	100		
119	94.8	75.1	112.7
201	103.5	80.1	120.1



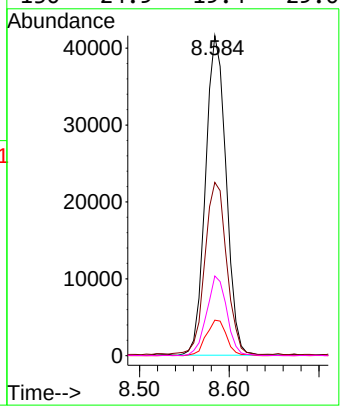


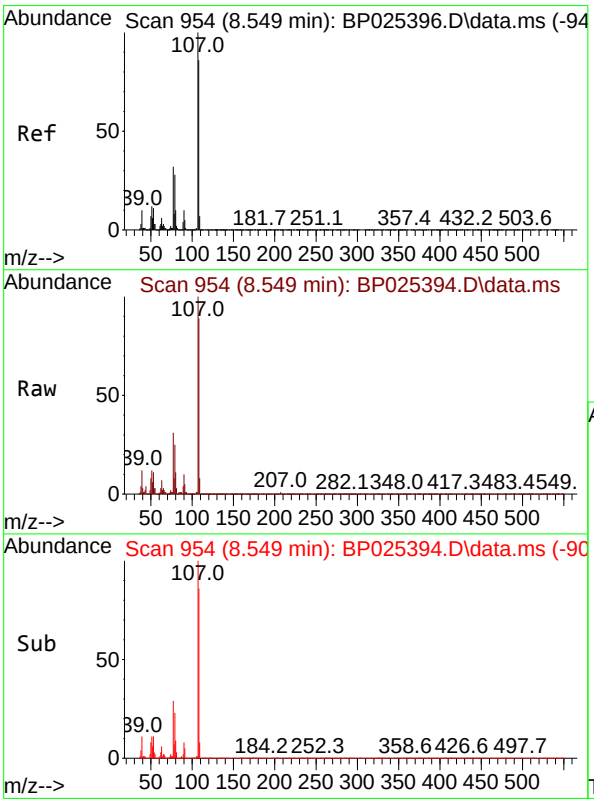
#19
n-Nitroso-di-n-propylamine
Concen: 9.366 ng
RT: 8.584 min Scan# 9
Delta R.T. -0.006 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion: 70 Resp: 66105

Ion	Ratio	Lower	Upper
70	100		
42	54.2	43.8	65.6
101	11.1	8.5	12.7
130	24.9	19.4	29.0

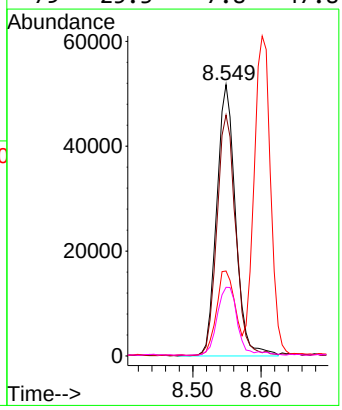


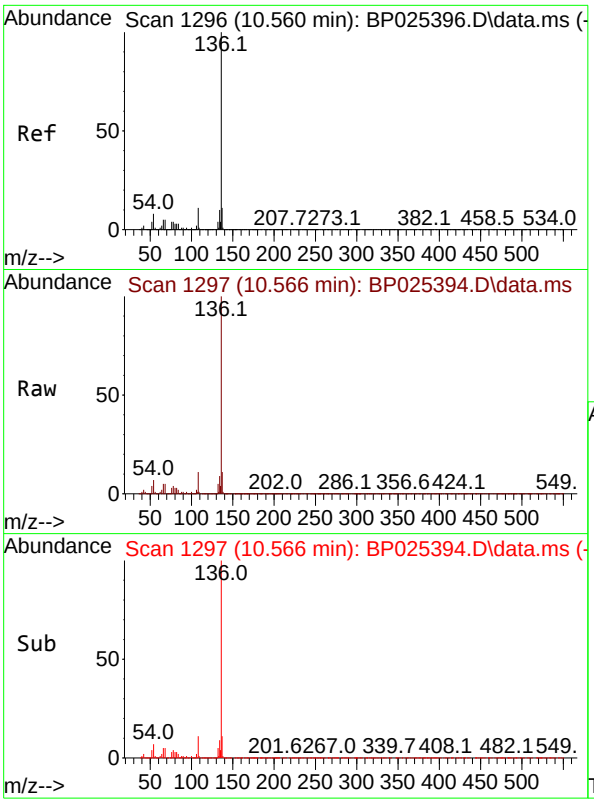


#20
3+4-Methylphenols
Concen: 9.244 ng
RT: 8.549 min Scan# 954
Delta R.T. 0.000 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:107 Resp: 99382

Ion	Ratio	Lower	Upper
107	100		
108	88.8	66.3	106.3
77	31.3	12.3	52.3
79	25.3	7.8	47.8



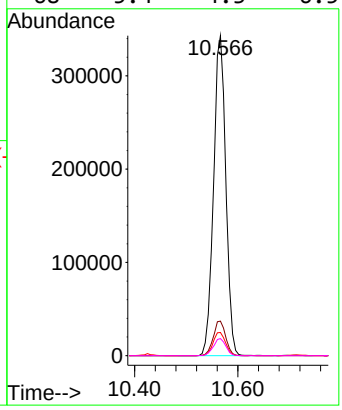


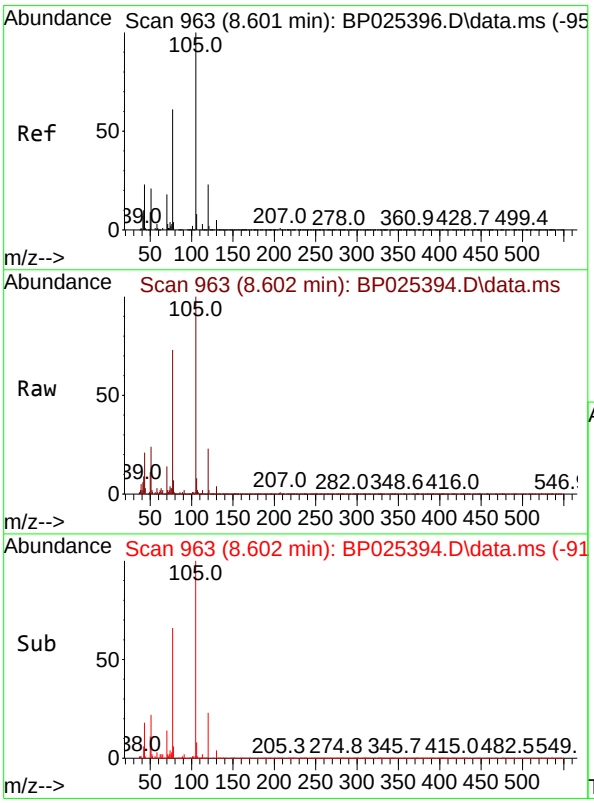
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.566 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:136 Resp: 563995

Ion	Ratio	Lower	Upper
136	100		
137	10.8	9.2	13.8
54	7.3	6.0	9.0
68	5.4	4.3	6.5

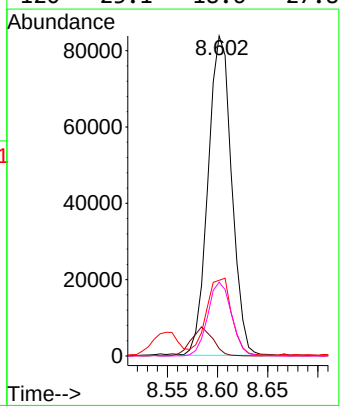


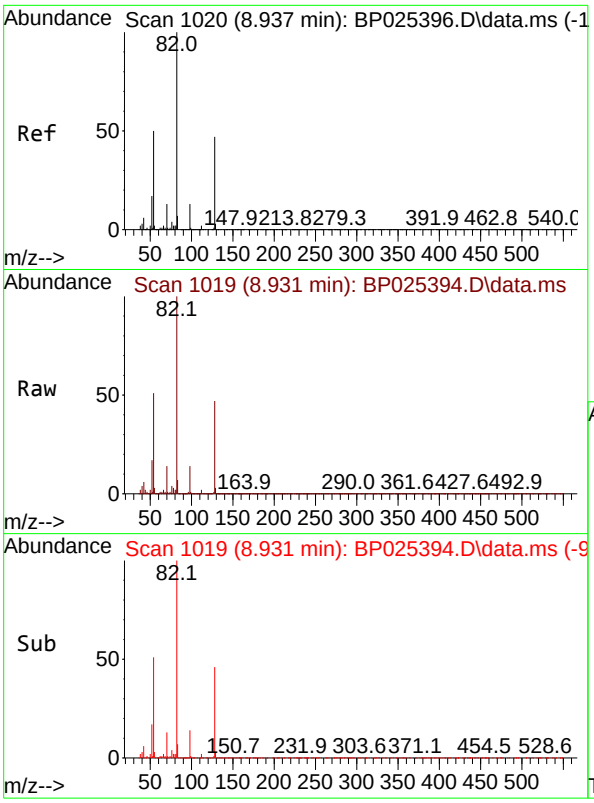


#22
Acetophenone
Concen: 9.712 ng
RT: 8.602 min Scan# 963
Delta R.T. 0.000 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:105 Resp: 137361

Ion	Ratio	Lower	Upper
105	100		
71	2.3	2.6	4.0#
51	23.7	20.6	30.8
120	23.1	18.6	27.8



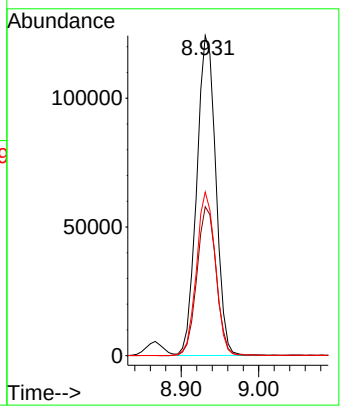


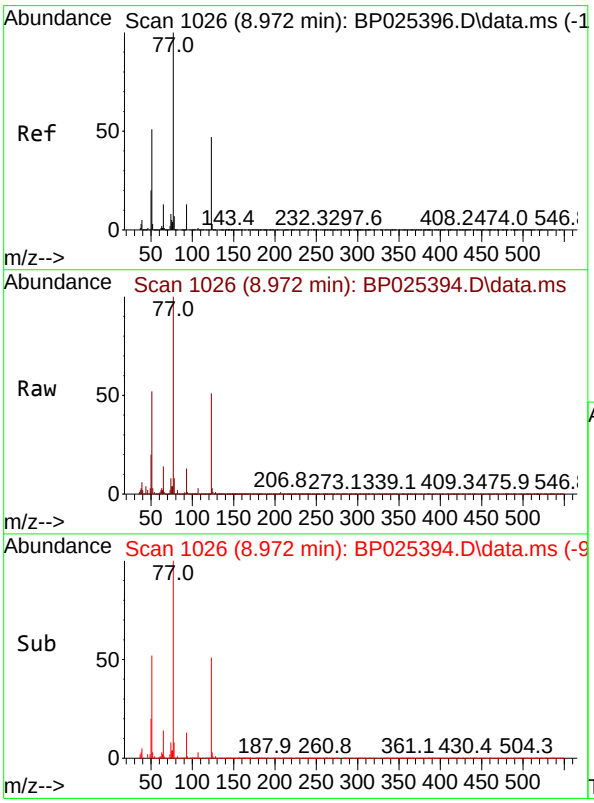
#23
Nitrobenzene-d5
Concen: 19.036 ng
RT: 8.931 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion: 82 Resp: 212236

Ion	Ratio	Lower	Upper
82	100		
128	46.6	37.7	56.5
54	51.2	39.8	59.6

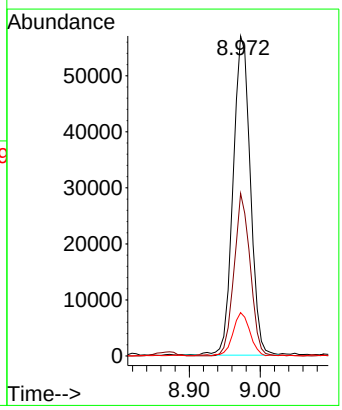


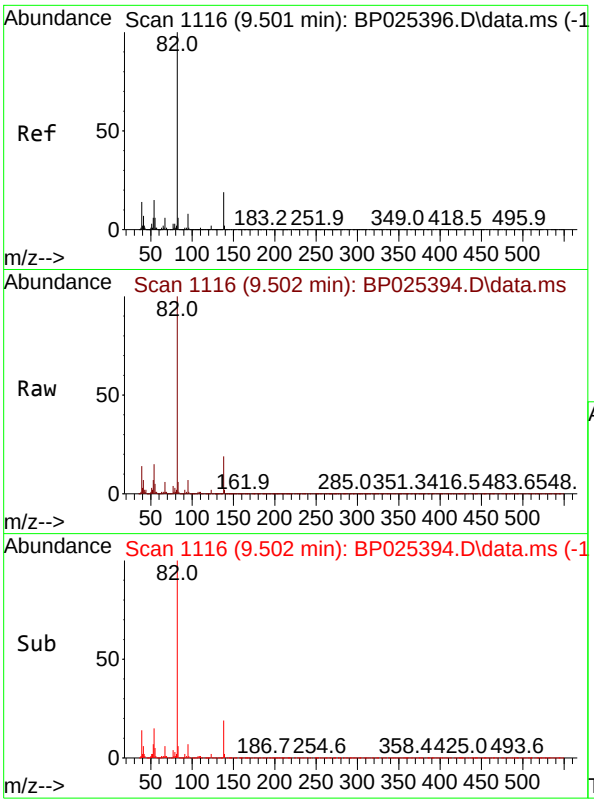


#24
Nitrobenzene
Concen: 9.685 ng
RT: 8.972 min Scan# 1026
Delta R.T. 0.000 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion: 77 Resp: 96502

Ion	Ratio	Lower	Upper
77	100		
123	50.8	38.6	58.0
65	13.6	10.6	15.8



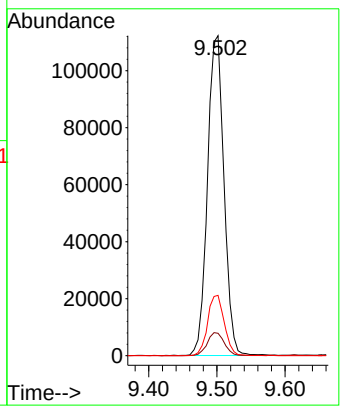


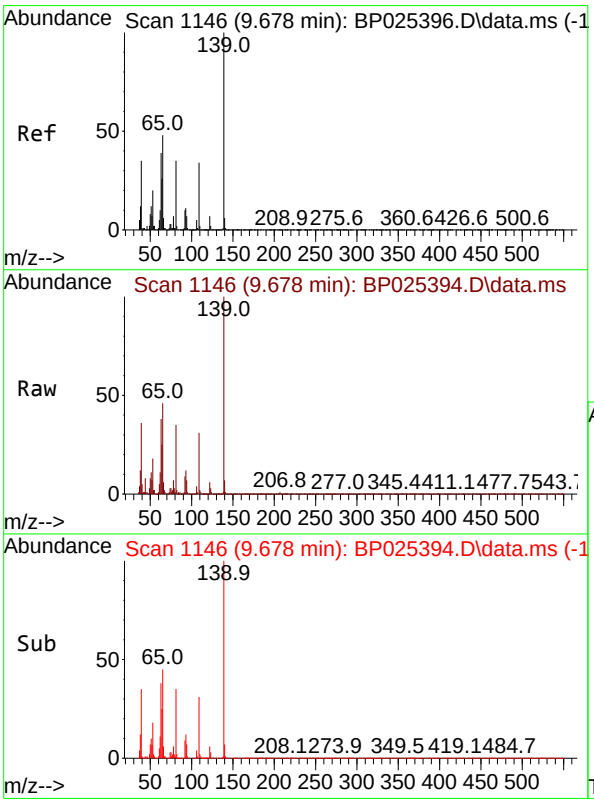
#25
Isophorone
Concen: 9.604 ng
RT: 9.502 min Scan# 11
Delta R.T. 0.000 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion: 82 Resp: 189510

Ion	Ratio	Lower	Upper
82	100		
95	7.0	6.4	9.6
138	18.8	15.4	23.0

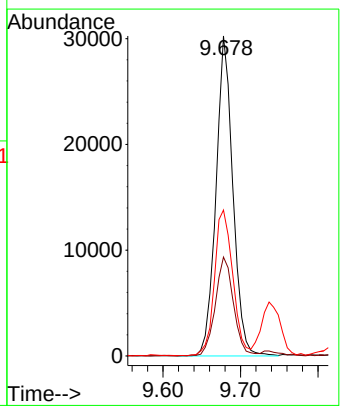


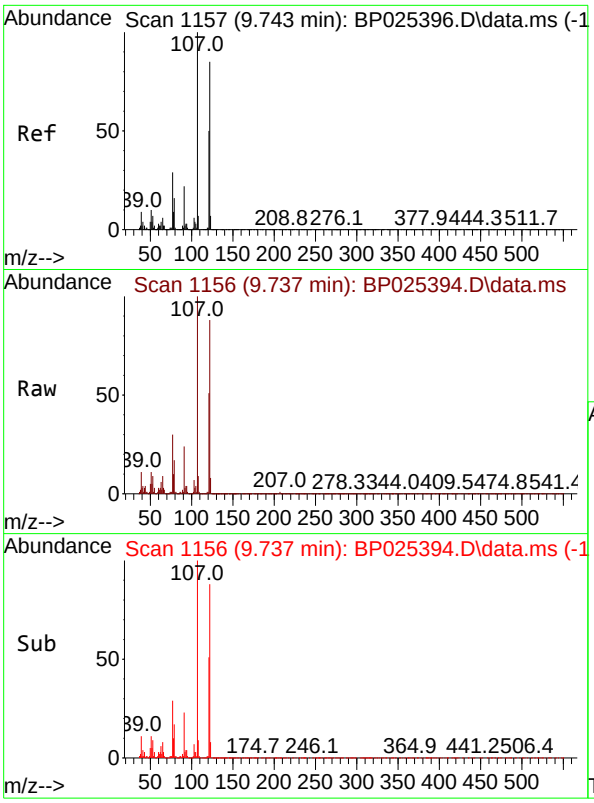


#26
2-Nitrophenol
Concen: 8.968 ng
RT: 9.678 min Scan# 1146
Delta R.T. 0.000 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:139 Resp: 45860

Ion	Ratio	Lower	Upper
139	100		
109	30.9	26.9	40.3
65	45.6	38.3	57.5



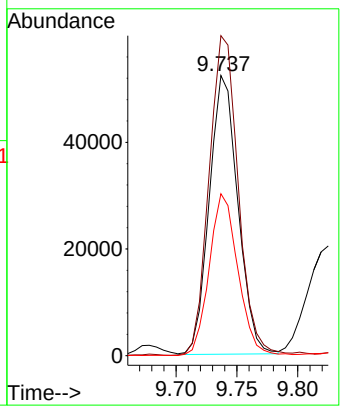


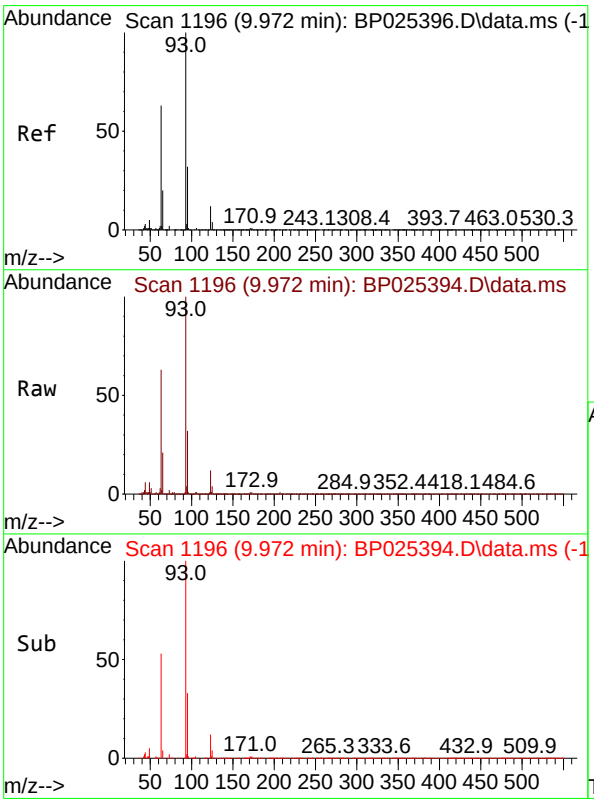
#27
2,4-Dimethylphenol
Concen: 9.718 ng
RT: 9.737 min Scan# 11
Delta R.T. -0.006 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:122 Resp: 85465

Ion	Ratio	Lower	Upper
122	100		
107	114.2	93.7	140.5
121	57.8	46.6	69.8

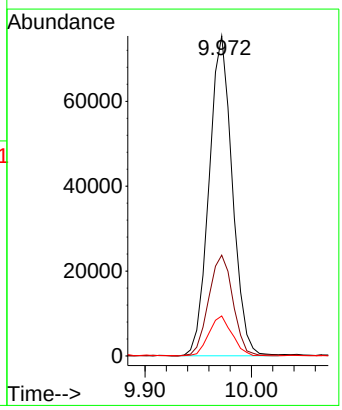


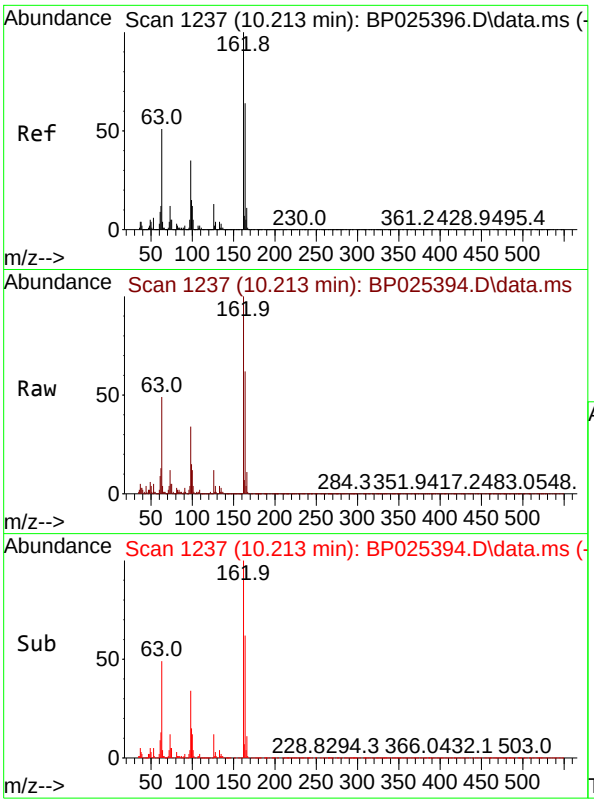


#28
bis(2-Chloroethoxy)methane
Concen: 9.611 ng
RT: 9.972 min Scan# 1196
Delta R.T. 0.000 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion: 93 Resp: 114635

Ion	Ratio	Lower	Upper
93	100		
95	31.5	25.4	38.0
123	12.5	9.4	14.0



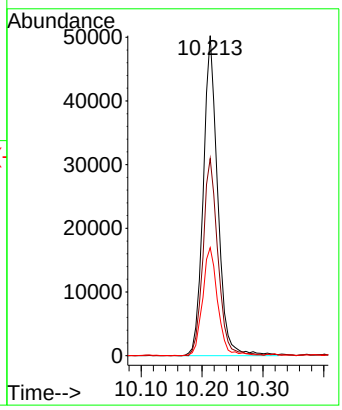


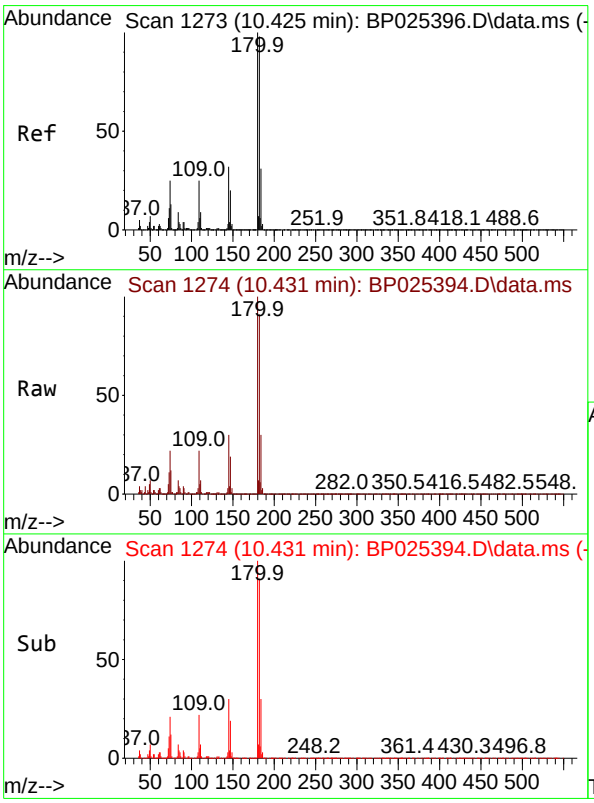
#29
2,4-Dichlorophenol
Concen: 9.464 ng
RT: 10.213 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:162 Resp: 82676

Ion	Ratio	Lower	Upper
162	100		
164	61.6	44.4	84.4
98	33.8	14.9	54.9

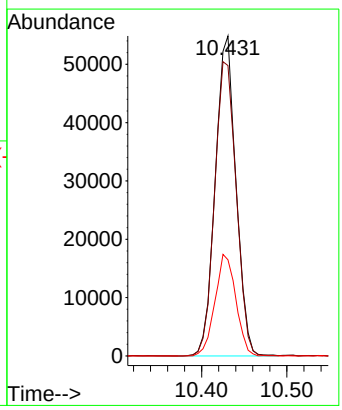


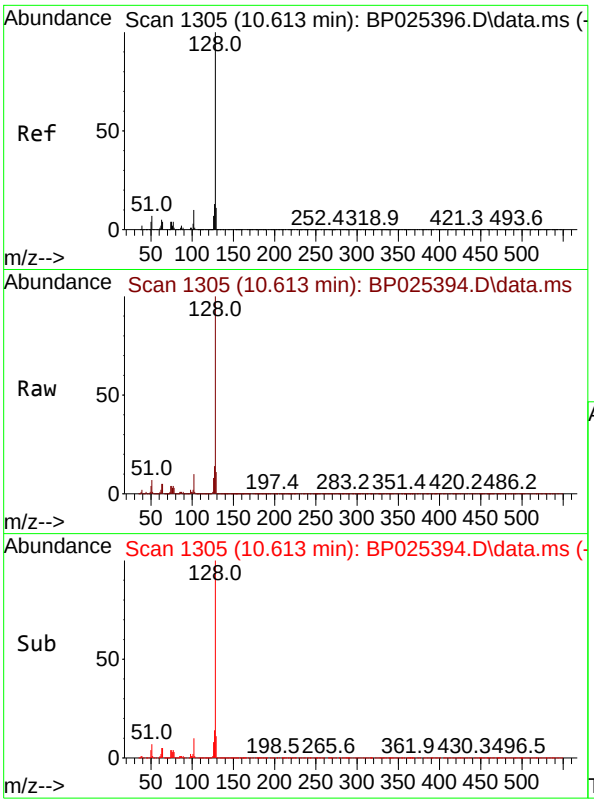


#30
1,2,4-Trichlorobenzene
Concen: 9.676 ng
RT: 10.431 min Scan# 1274
Delta R.T. 0.006 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:180 Resp: 92664

Ion	Ratio	Lower	Upper
180	100		
182	90.7	78.0	117.0
145	30.1	25.9	38.9



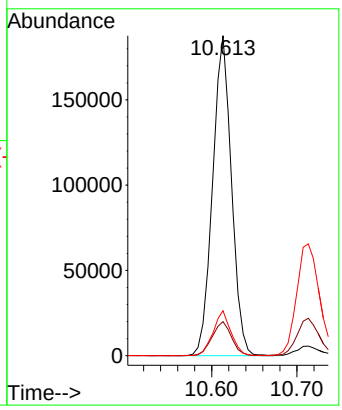


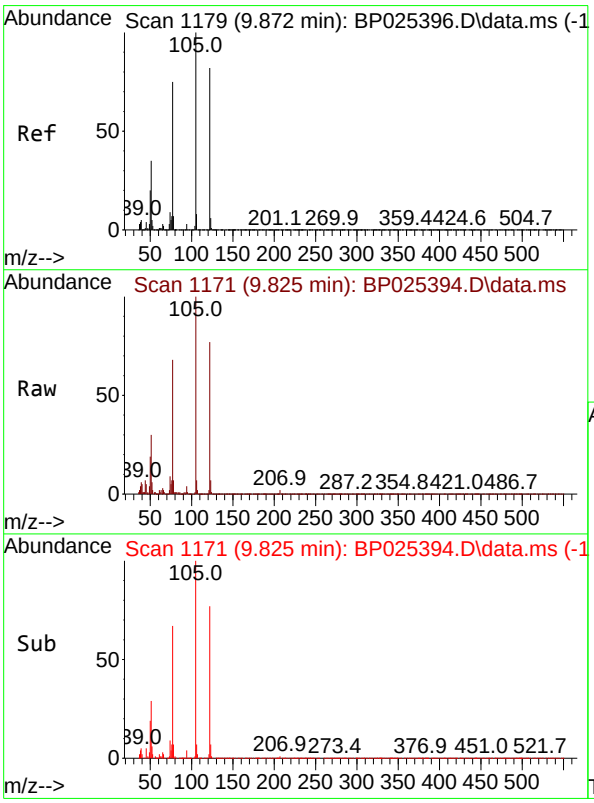
#31
Naphthalene
Concen: 9.816 ng
RT: 10.613 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:128 Resp: 287754

Ion	Ratio	Lower	Upper
128	100		
129	10.7	8.6	13.0
127	14.0	10.7	16.1

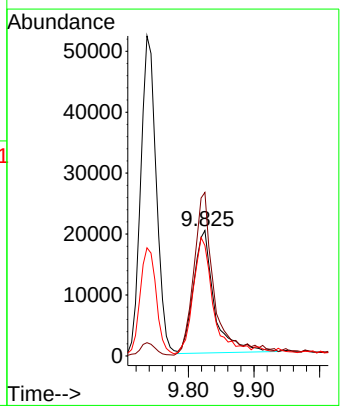


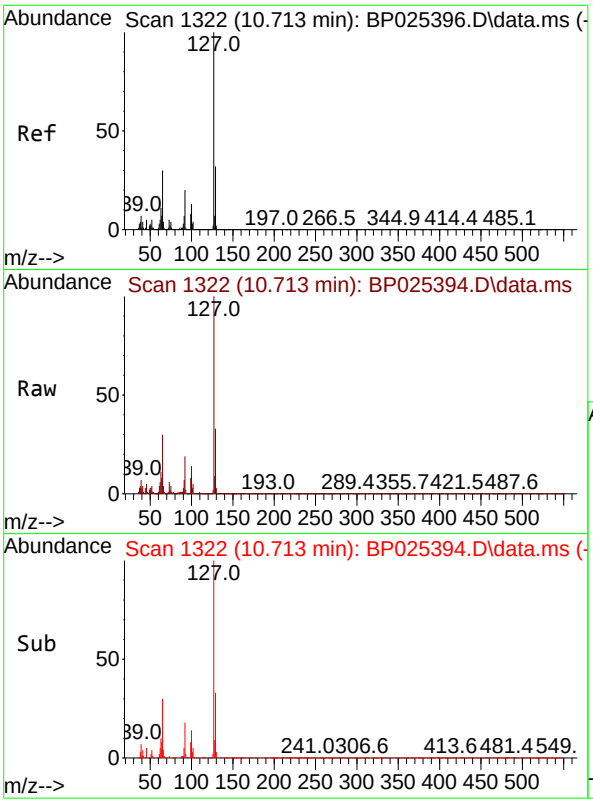


#32
Benzoic acid
Concen: 6.856 ng
RT: 9.825 min Scan# 1171
Delta R.T. -0.047 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:122 Resp: 44404

Ion	Ratio	Lower	Upper
122	100		
105	130.4	100.6	140.6
77	88.0	71.5	111.5



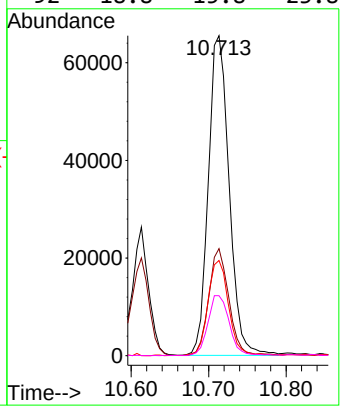


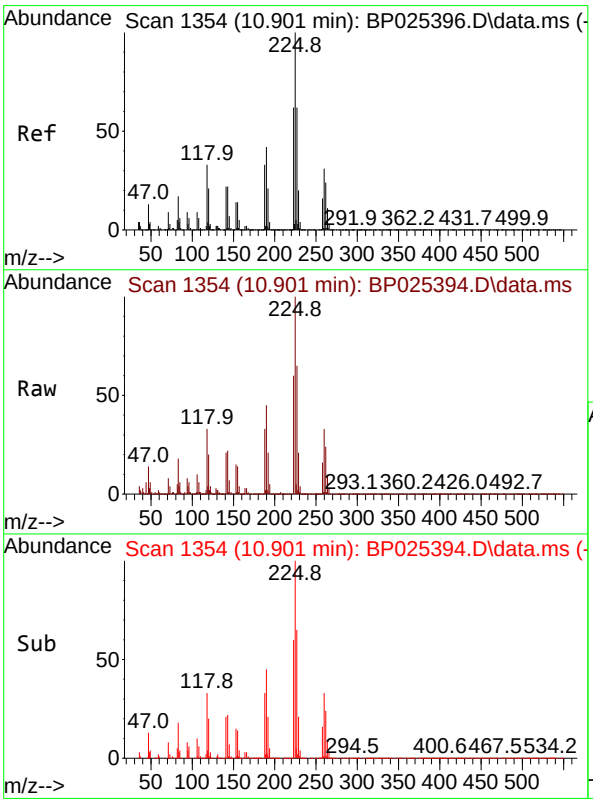
#33
4-Chloroaniline
Concen: 9.472 ng
RT: 10.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:127 Resp: 122647

Ion	Ratio	Lower	Upper
127	100		
129	33.5	25.4	38.2
65	29.7	23.8	35.6
92	18.8	15.8	23.8

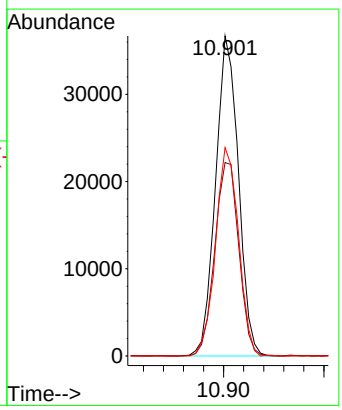


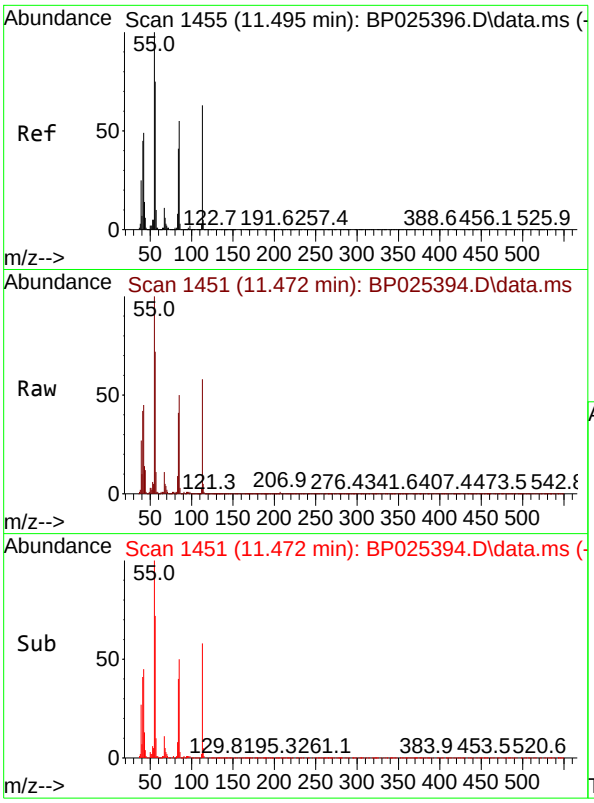


#34
Hexachlorobutadiene
Concen: 9.695 ng
RT: 10.901 min Scan# 1354
Delta R.T. 0.000 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:225 Resp: 57821

Ion	Ratio	Lower	Upper
225	100		
223	60.5	50.0	75.0
227	65.1	49.7	74.5



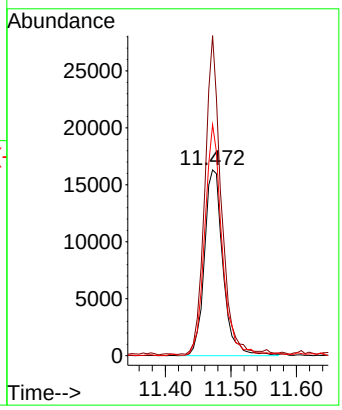


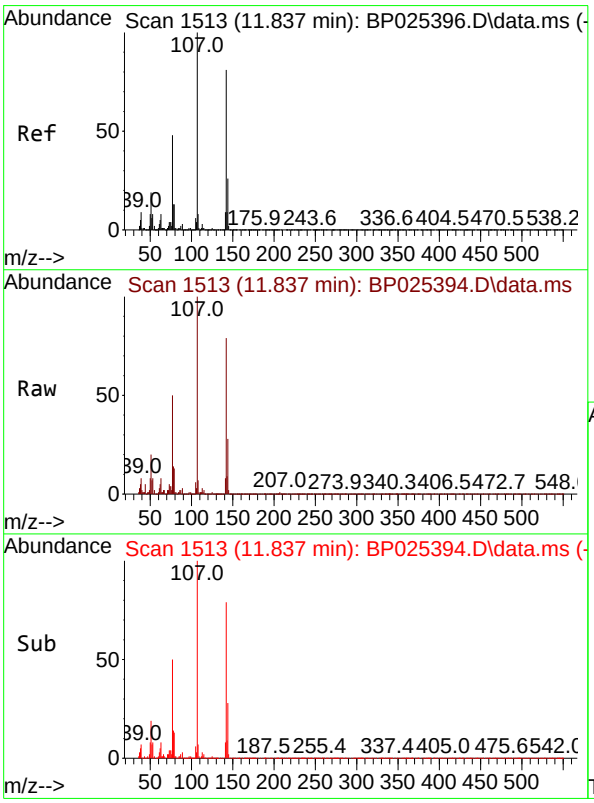
#35
Caprolactam
Concen: 10.001 ng
RT: 11.472 min Scan# 14
Delta R.T. -0.023 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:113 Resp: 32038

Ion	Ratio	Lower	Upper
113	100		
55	172.3	140.0	180.0
56	124.4	100.0	140.0

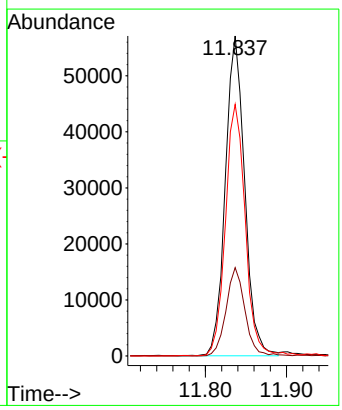


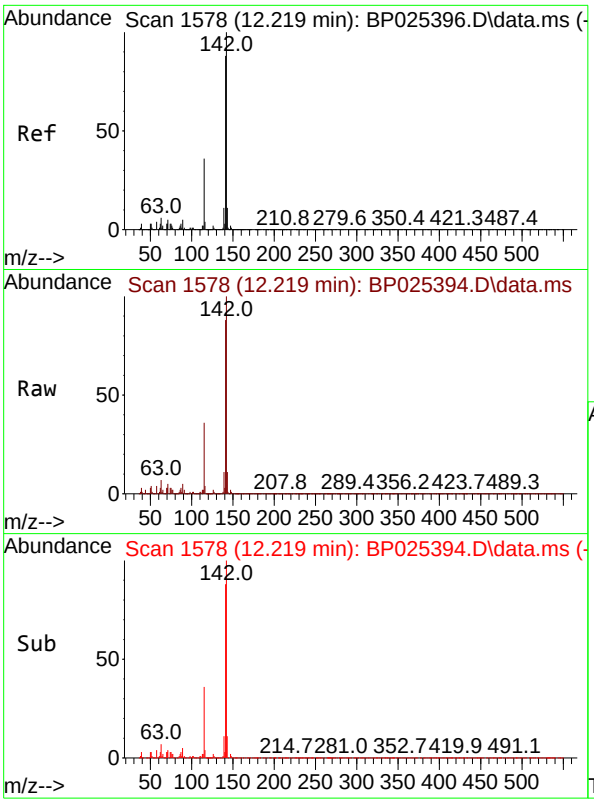


#36
4-Chloro-3-methylphenol
Concen: 9.431 ng
RT: 11.837 min Scan# 1513
Delta R.T. 0.000 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:107 Resp: 94538

Ion	Ratio	Lower	Upper
107	100		
144	27.6	21.0	31.4
142	78.6	64.6	97.0



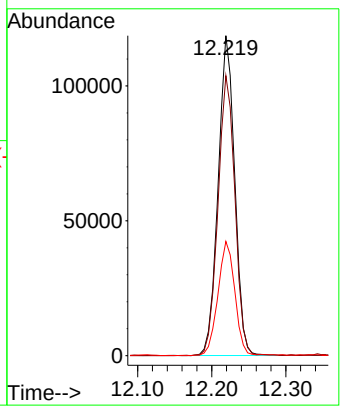


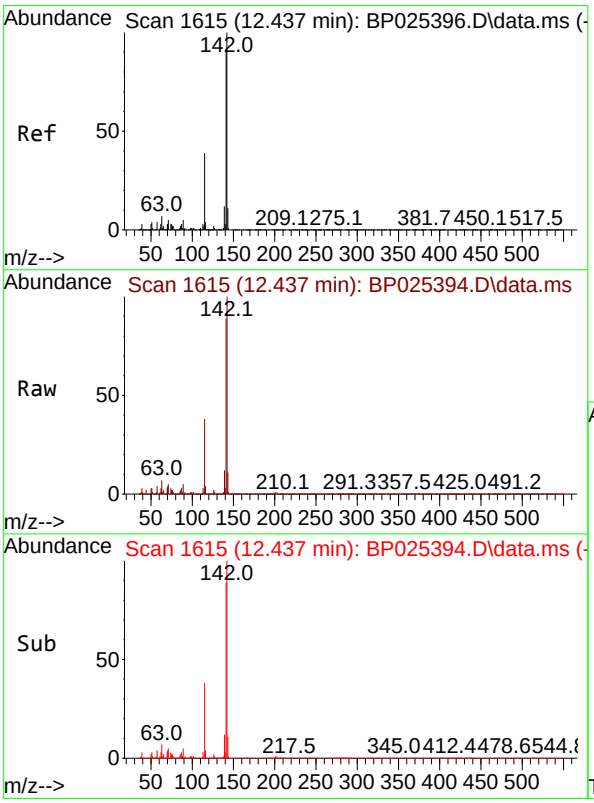
#37
2-Methylnaphthalene
Concen: 9.654 ng
RT: 12.219 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:142 Resp: 184172

Ion	Ratio	Lower	Upper
142	100		
141	87.5	70.3	105.5
115	35.7	28.9	43.3

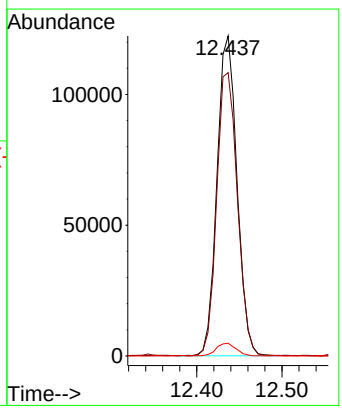


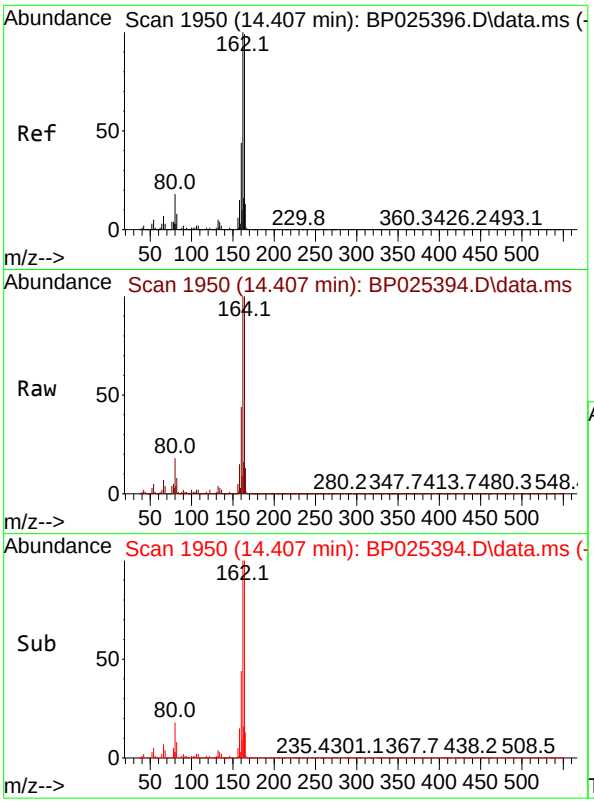


#38
1-Methylnaphthalene
Concen: 9.817 ng
RT: 12.437 min Scan# 1615
Delta R.T. 0.000 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:142 Resp: 199160

Ion	Ratio	Lower	Upper
142	100		
141	88.6	73.1	109.7
116	4.0	3.2	4.8



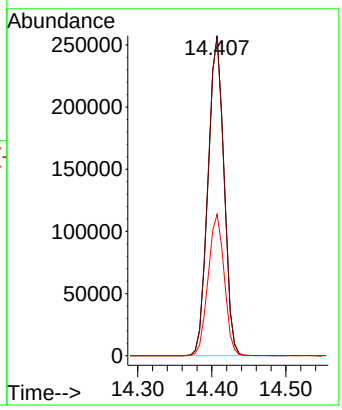


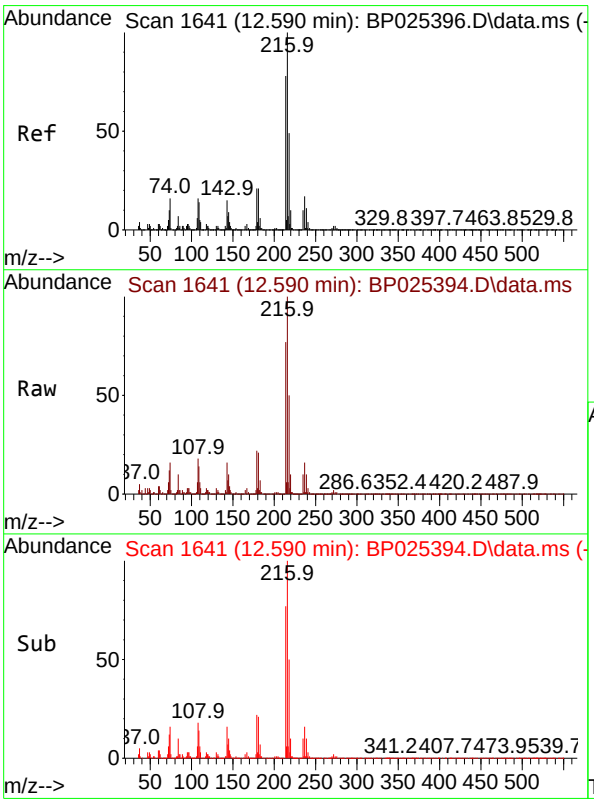
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.407 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:164 Resp: 383199

Ion	Ratio	Lower	Upper
164	100		
162	99.7	81.0	121.6
160	44.2	35.4	53.2

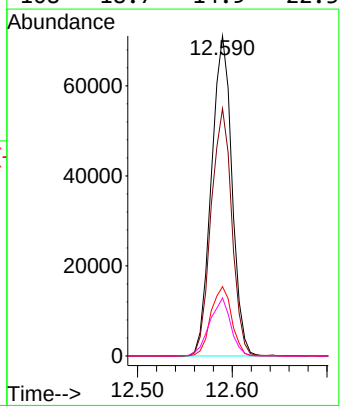


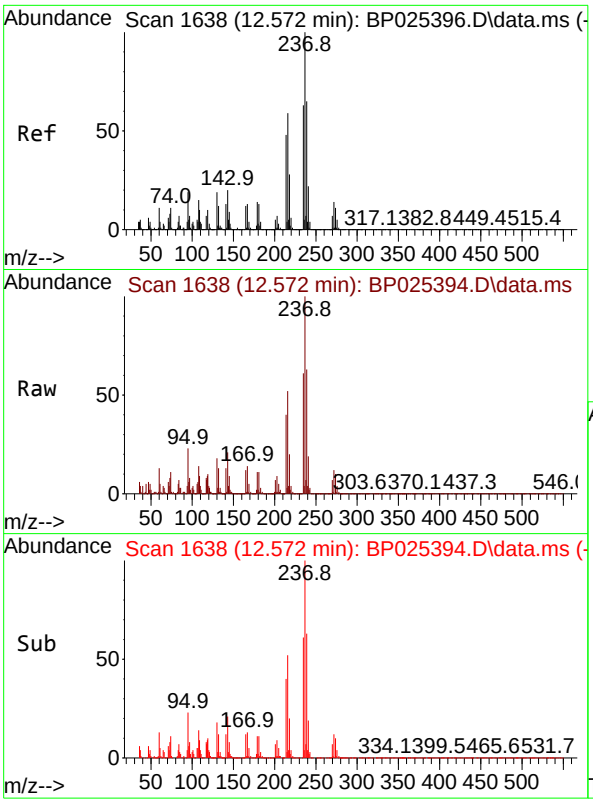


#40
1,2,4,5-Tetrachlorobenzene
Concen: 9.678 ng
RT: 12.590 min Scan# 1641
Delta R.T. 0.000 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:216 Resp: 107104

Ion	Ratio	Lower	Upper
216	100		
214	77.8	63.0	94.4
179	22.0	17.1	25.7
108	18.7	14.9	22.3



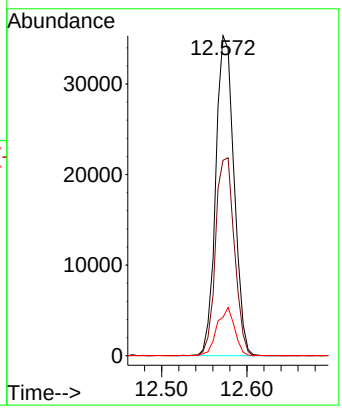


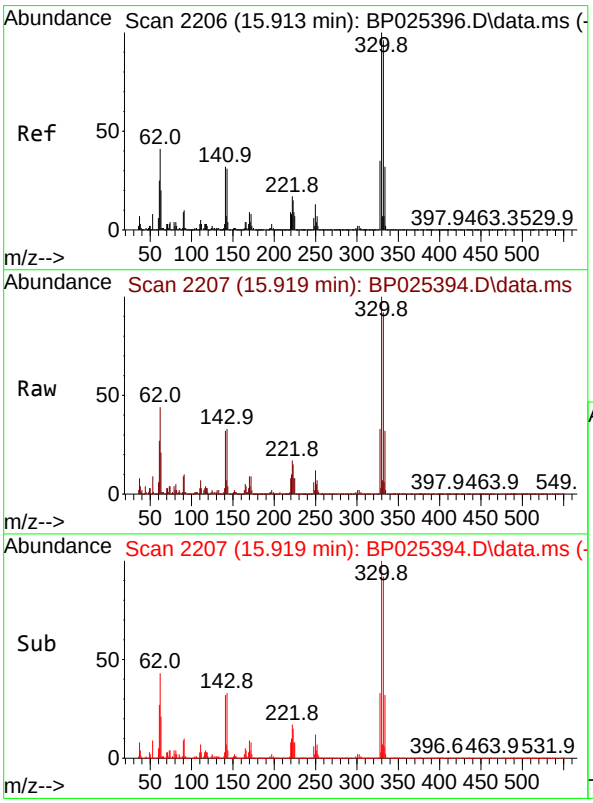
#41
Hexachlorocyclopentadiene
Concen: 7.867 ng
RT: 12.572 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:237 Resp: 52588

Ion	Ratio	Lower	Upper
237	100		
235	61.1	42.7	82.7
272	12.0	0.0	34.0

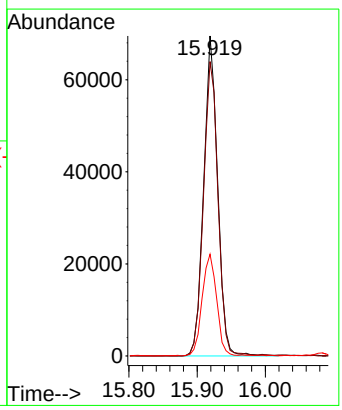


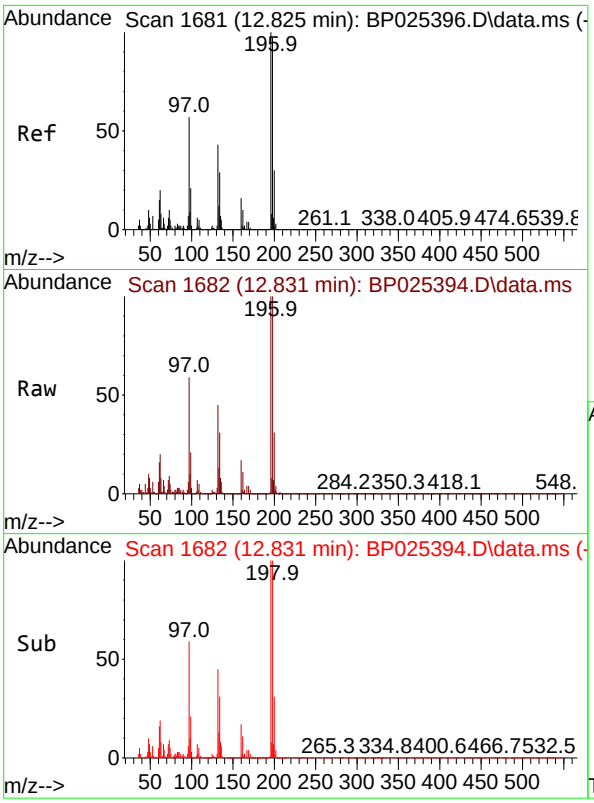


#42
2,4,6-Tribromophenol
Concen: 19.210 ng
RT: 15.919 min Scan# 2207
Delta R.T. 0.006 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:330 Resp: 99083

Ion	Ratio	Lower	Upper
330	100		
332	95.4	77.3	115.9
141	33.1	26.6	39.8



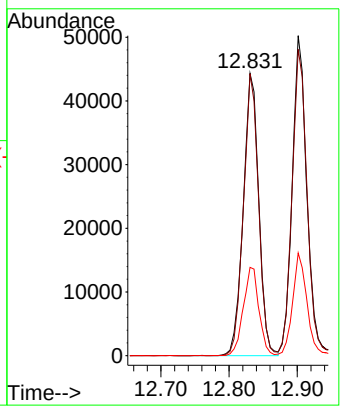


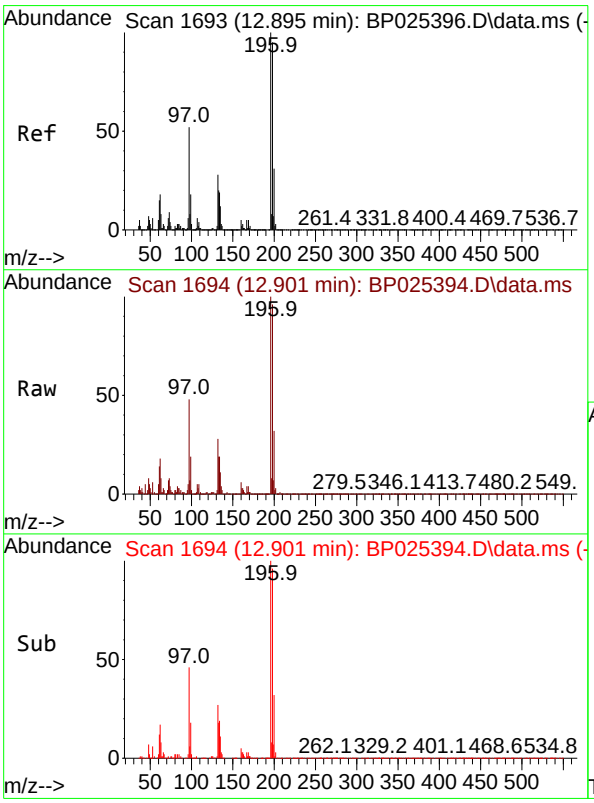
#43
2,4,6-Trichlorophenol
Concen: 9.339 ng
RT: 12.831 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:196 Resp: 69780

Ion	Ratio	Lower	Upper
196	100		
198	99.9	77.2	115.8
200	31.3	23.9	35.9

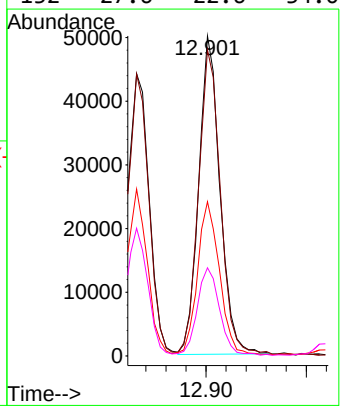


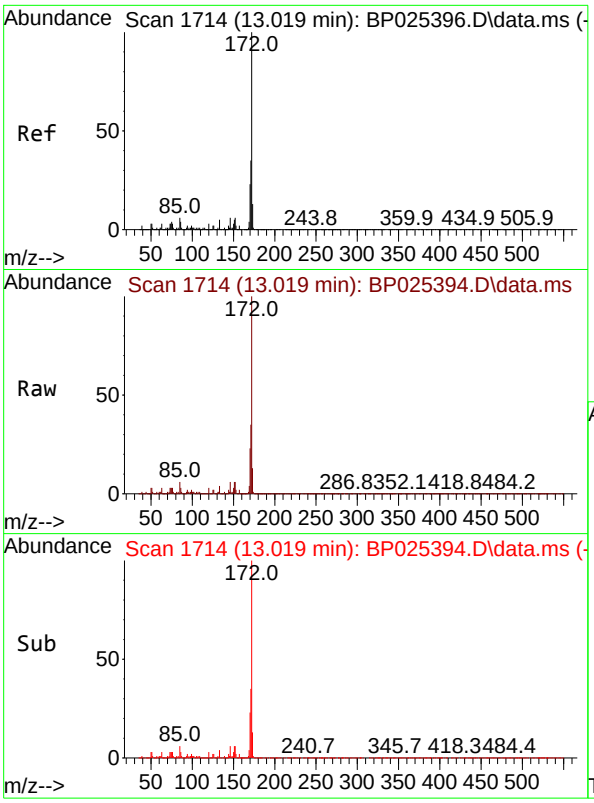


#44
2,4,5-Trichlorophenol
Concen: 9.006 ng
RT: 12.901 min Scan# 1694
Delta R.T. 0.006 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:196 Resp: 73744

Ion	Ratio	Lower	Upper
196	100		
198	95.7	76.2	114.2
97	48.2	41.2	61.8
132	27.6	22.6	34.0



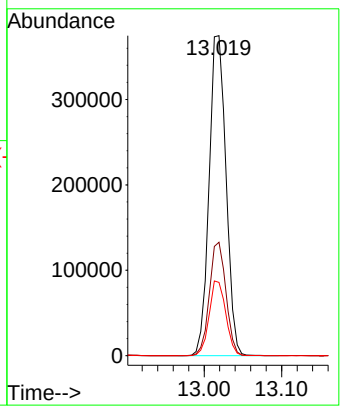


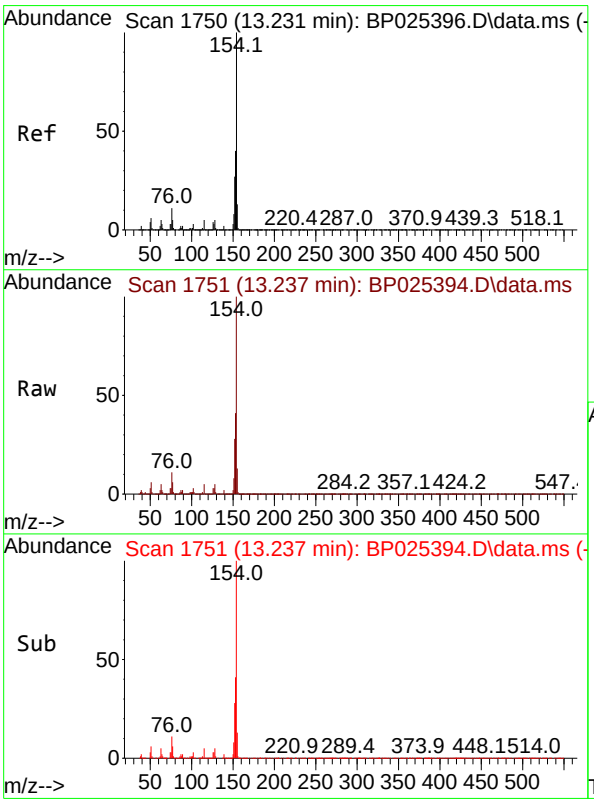
#45
2-Fluorobiphenyl
Concen: 20.271 ng
RT: 13.019 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:172 Resp: 568359

Ion	Ratio	Lower	Upper
172	100		
171	35.5	28.1	42.1
170	22.9	18.6	28.0

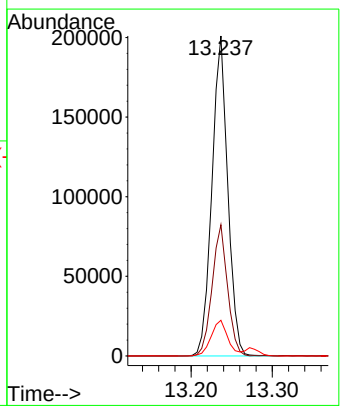


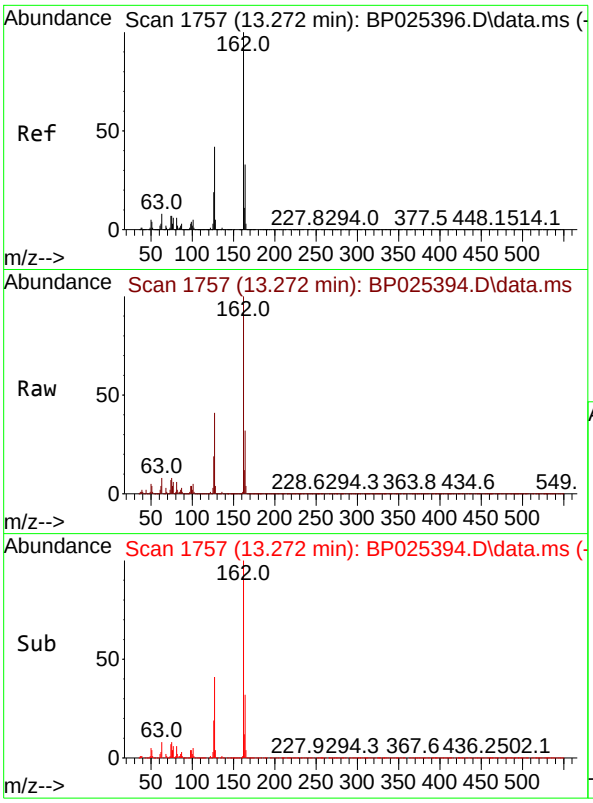


#46
1,1'-Biphenyl
Concen: 9.763 ng
RT: 13.237 min Scan# 1751
Delta R.T. 0.006 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:154 Resp: 271710

Ion	Ratio	Lower	Upper
154	100		
153	41.0	19.5	59.5
76	11.2	0.0	31.1



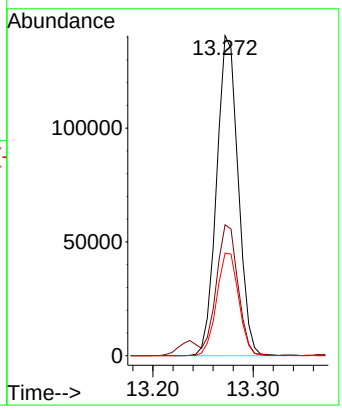


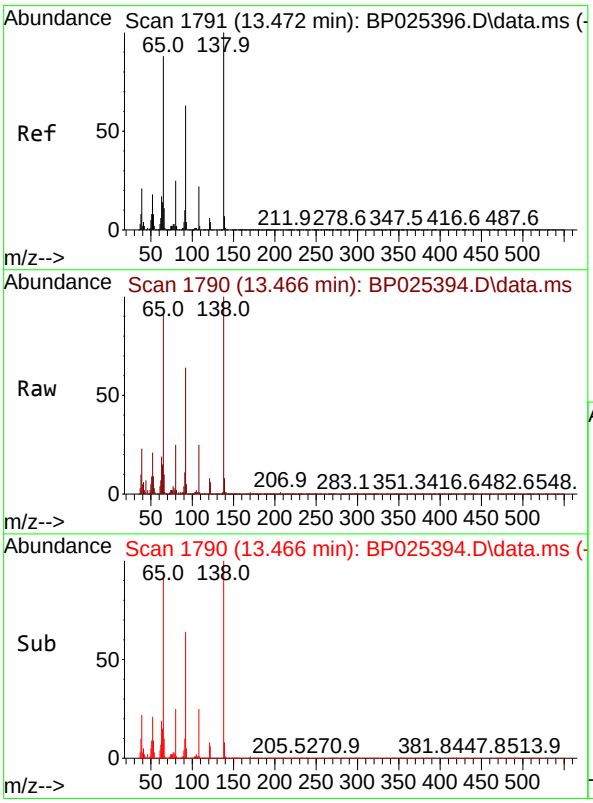
#47
2-Chloronaphthalene
Concen: 9.666 ng
RT: 13.272 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:162 Resp: 209419

Ion	Ratio	Lower	Upper
162	100		
127	40.9	33.4	50.2
164	32.0	26.2	39.2

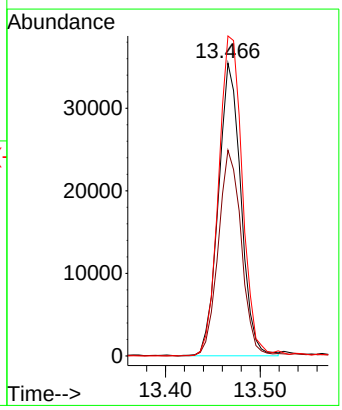


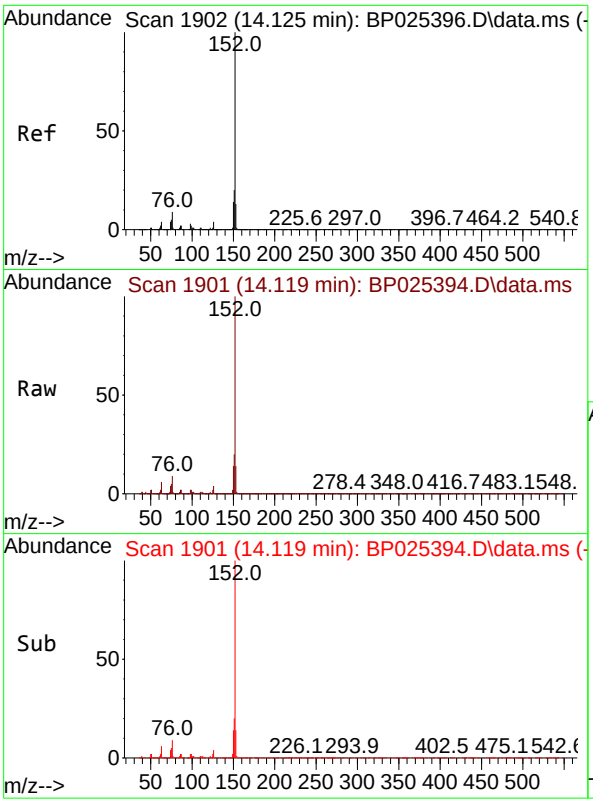


#48
2-Nitroaniline
Concen: 9.287 ng
RT: 13.466 min Scan# 1790
Delta R.T. -0.006 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion: 65 Resp: 58630

Ion	Ratio	Lower	Upper
65	100		
92	70.3	57.6	86.4
138	109.3	91.0	136.6



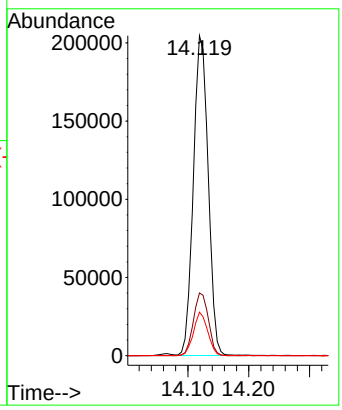


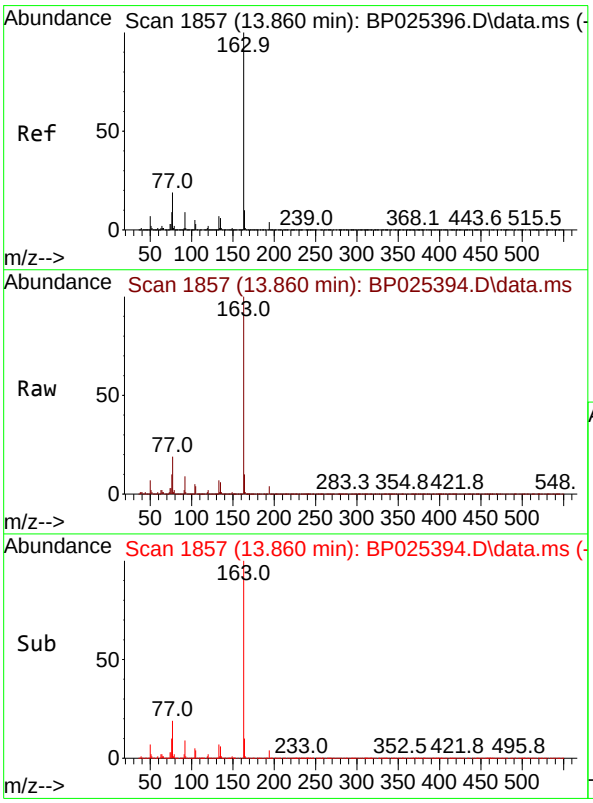
#49
Acenaphthylene
Concen: 9.652 ng
RT: 14.119 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:152 Resp: 346021

Ion	Ratio	Lower	Upper
152	100		
151	19.6	16.0	24.0
153	13.6	10.6	15.8

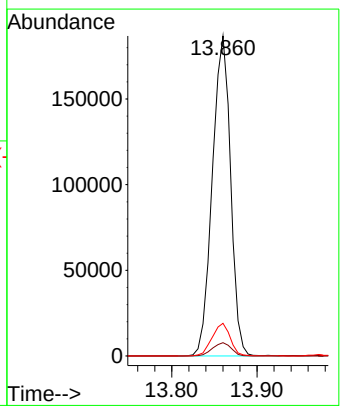


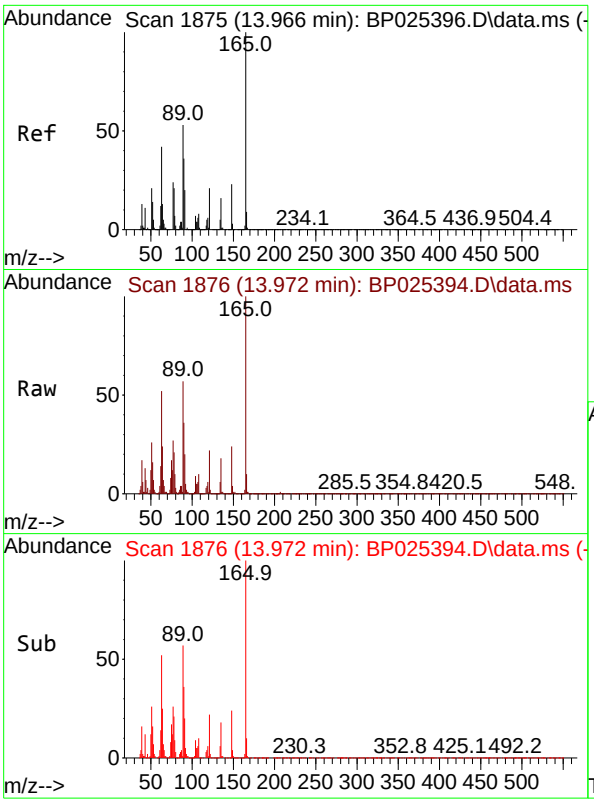


#50
Dimethylphthalate
Concen: 9.896 ng
RT: 13.860 min Scan# 1857
Delta R.T. 0.000 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:163 Resp: 277701

Ion	Ratio	Lower	Upper
163	100		
194	4.2	3.4	5.0
164	10.2	7.9	11.9



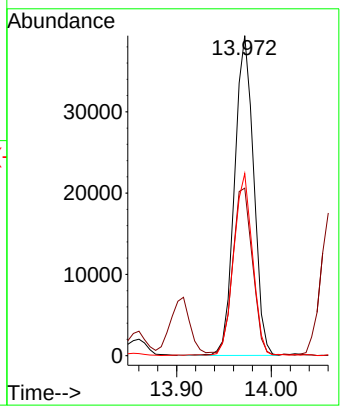


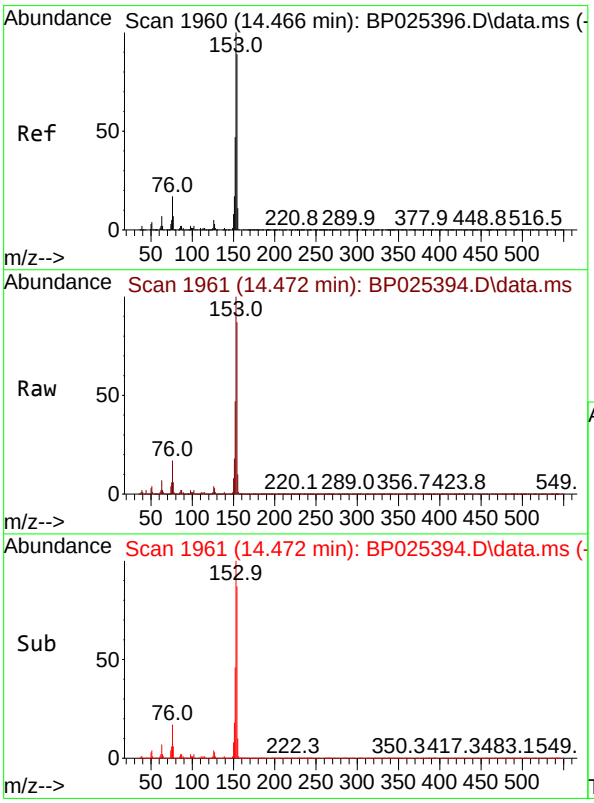
#51
2,6-Dinitrotoluene
Concen: 9.292 ng
RT: 13.972 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:165 Resp: 54957

Ion	Ratio	Lower	Upper
165	100		
63	52.3	40.9	61.3
89	56.9	42.1	63.1

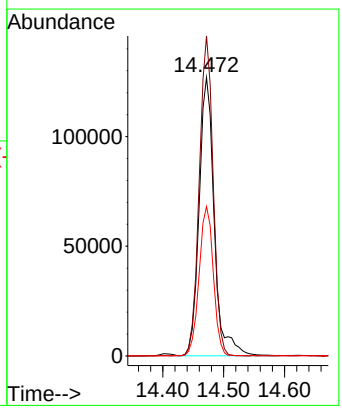


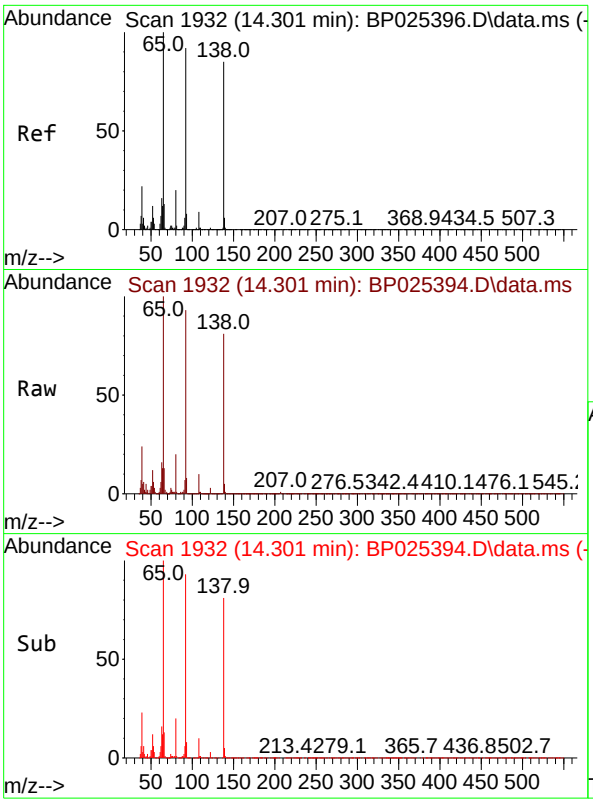


#52
Acenaphthene
Concen: 10.373 ng
RT: 14.472 min Scan# 1961
Delta R.T. 0.006 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:154 Resp: 218284

Ion	Ratio	Lower	Upper
154	100		
153	114.8	90.2	135.2
152	53.6	42.1	63.1



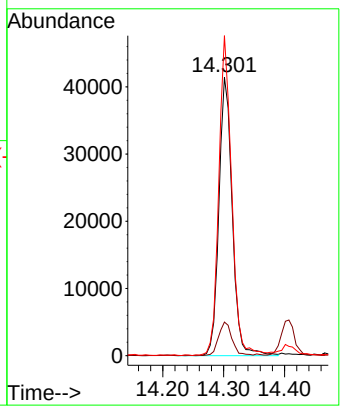


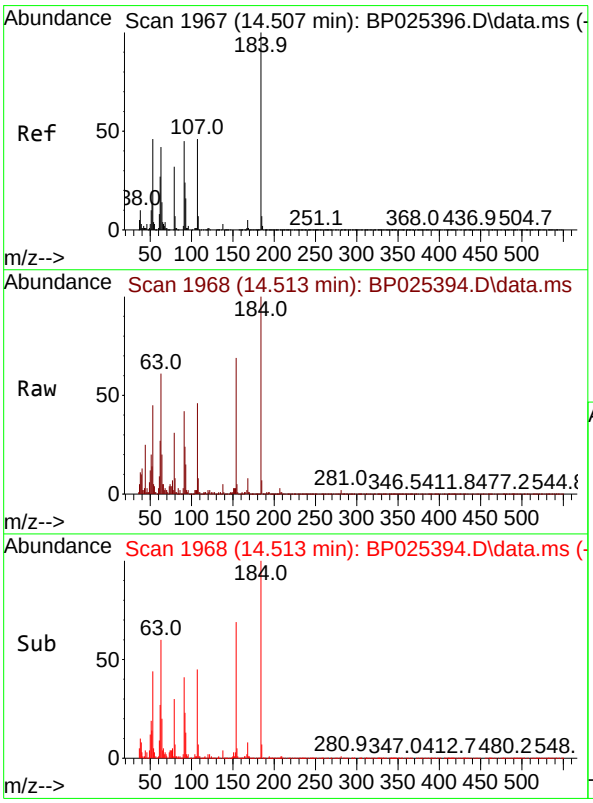
#53
3-Nitroaniline
Concen: 9.466 ng
RT: 14.301 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:138 Resp: 62991

Ion	Ratio	Lower	Upper
138	100		
108	12.1	8.3	12.5
92	114.9	86.2	129.2

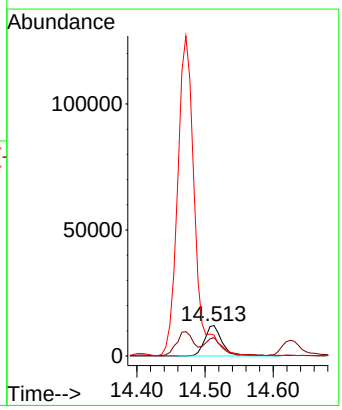


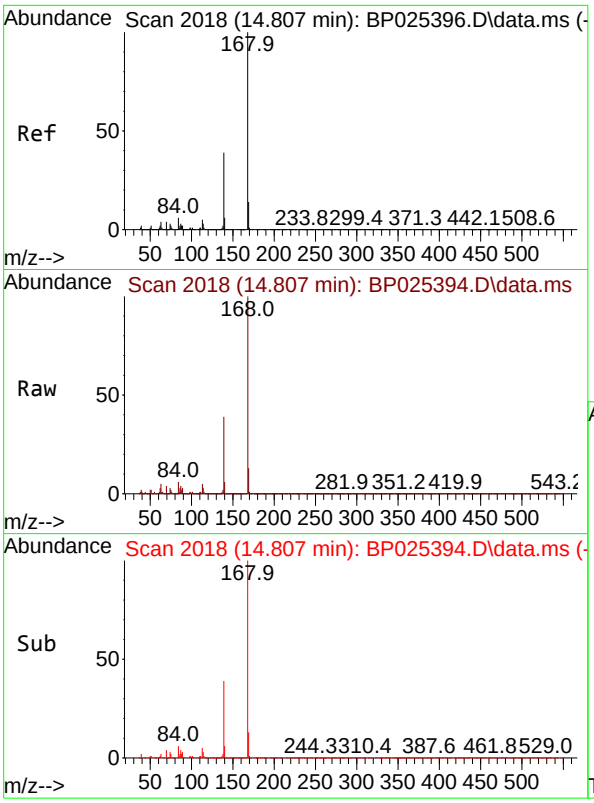


#54
2,4-Dinitrophenol
Concen: 6.886 ng
RT: 14.513 min Scan# 1968
Delta R.T. 0.006 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:184 Resp: 21748

Ion	Ratio	Lower	Upper
184	100		
63	60.8	49.4	74.2
154	69.1	54.6	82.0



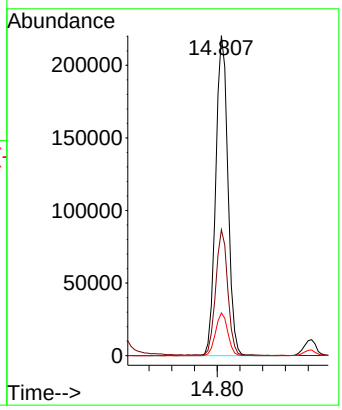


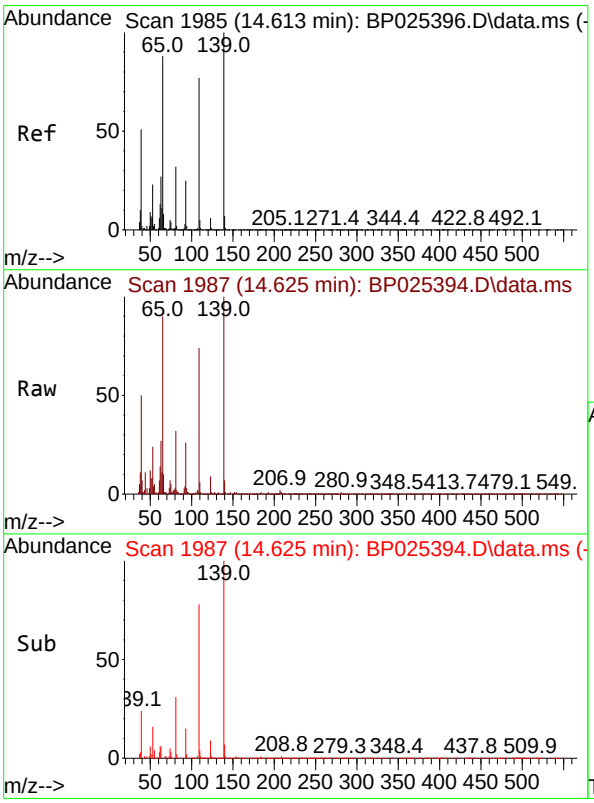
#55
Dibenzofuran
Concen: 9.851 ng
RT: 14.807 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:168 Resp: 327734

Ion	Ratio	Lower	Upper
168	100		
139	39.3	31.5	47.3
169	13.4	10.9	16.3

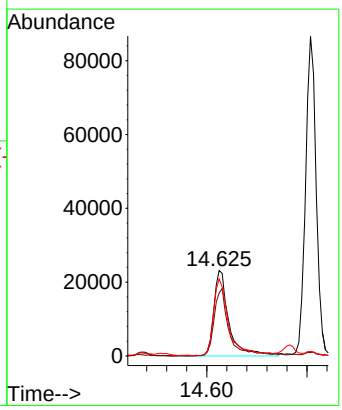


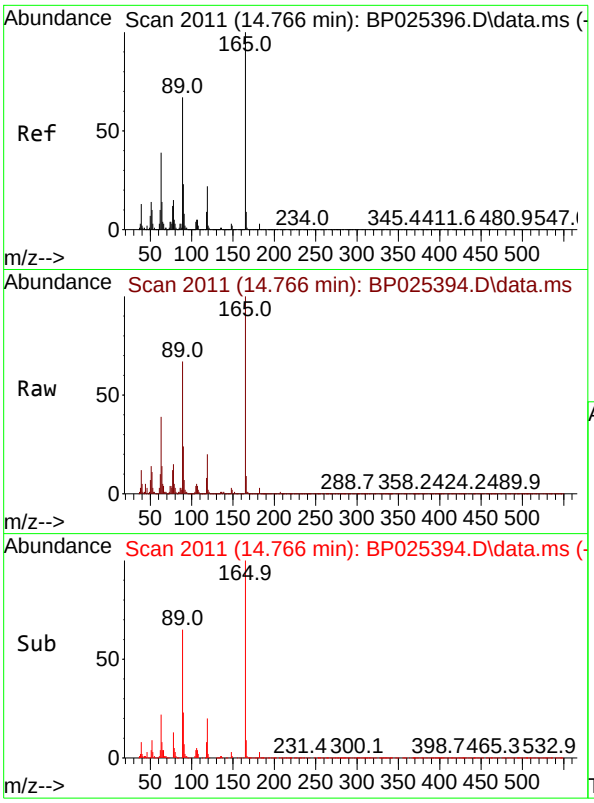


#56
4-Nitrophenol
Concen: 8.797 ng
RT: 14.625 min Scan# 1987
Delta R.T. 0.012 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:139 Resp: 48103

Ion	Ratio	Lower	Upper
139	100		
109	73.8	56.6	96.6
65	90.2	68.2	108.2



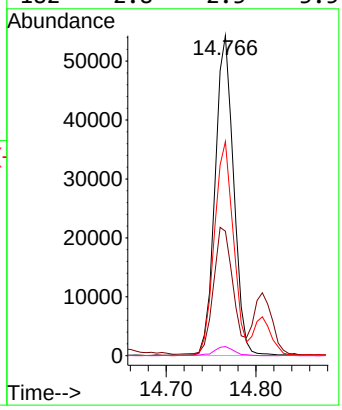


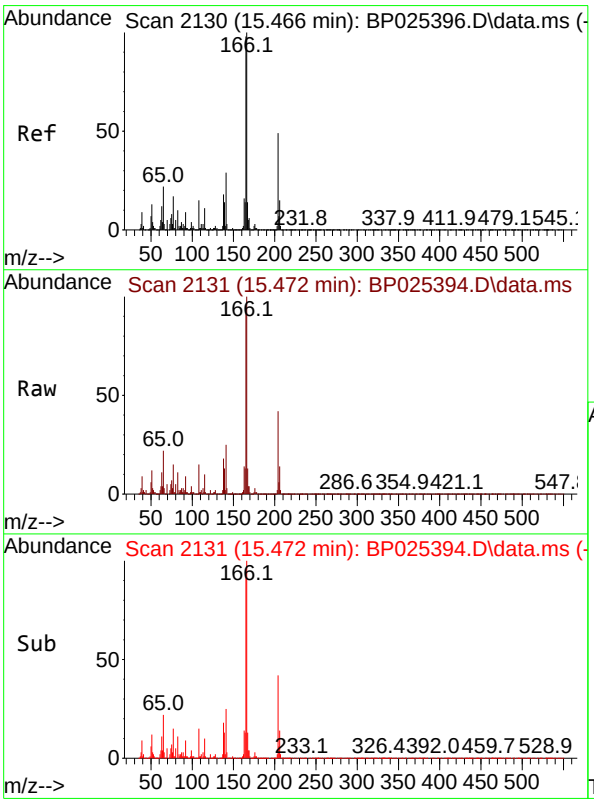
#57
2,4-Dinitrotoluene
Concen: 9.237 ng
RT: 14.766 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:165 Resp: 77950

Ion	Ratio	Lower	Upper
165	100		
63	38.9	31.4	47.2
89	66.9	53.3	79.9
182	2.8	2.3	3.5

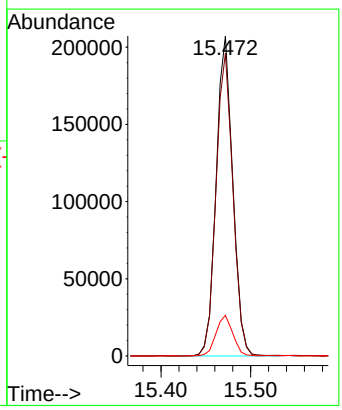


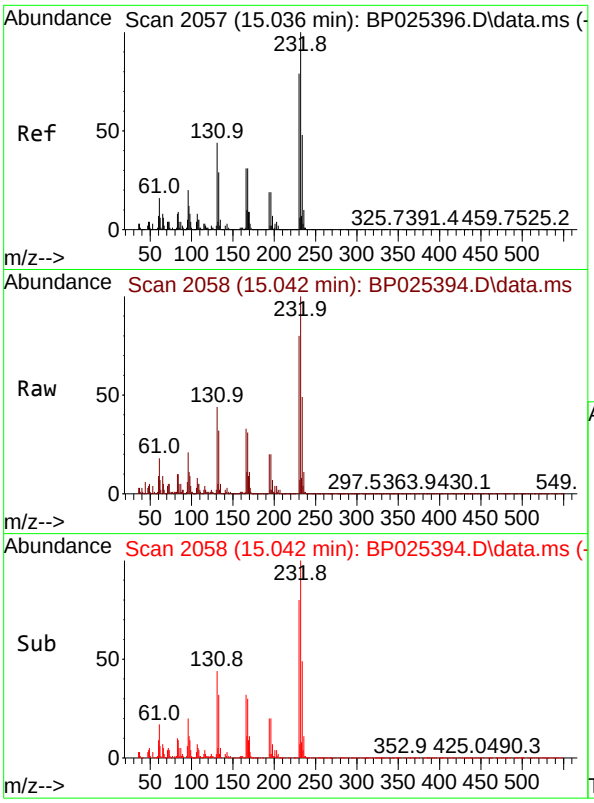


#58
Fluorene
Concen: 10.156 ng
RT: 15.472 min Scan# 2131
Delta R.T. 0.006 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:166 Resp: 266610

Ion	Ratio	Lower	Upper
166	100		
165	94.6	78.8	118.2
167	12.7	11.0	16.4



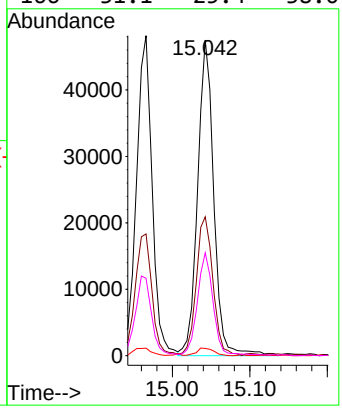


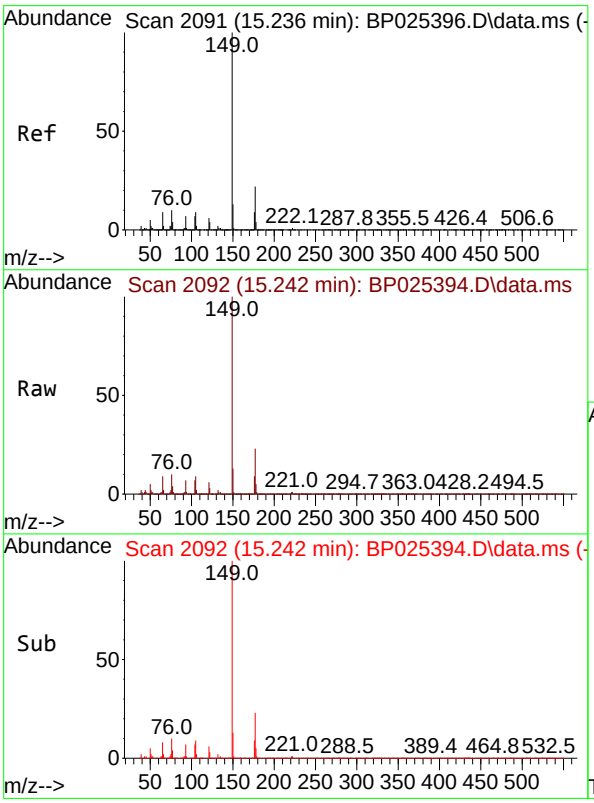
#59
2,3,4,6-Tetrachlorophenol
Concen: 9.533 ng
RT: 15.042 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:232 Resp: 68931

Ion	Ratio	Lower	Upper
232	100		
131	45.2	37.0	55.6
130	2.5	1.9	2.9
166	31.1	25.4	38.0

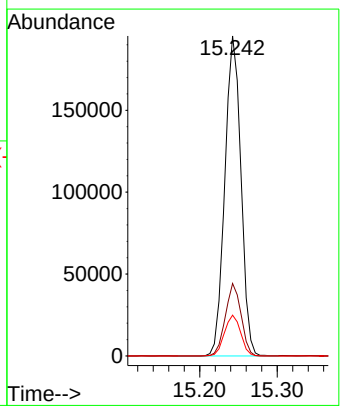


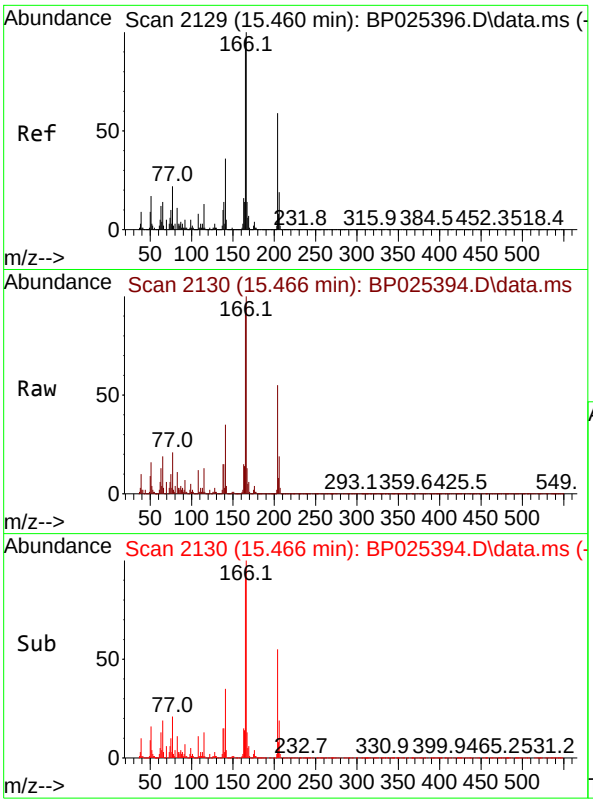


#60
Diethylphthalate
Concen: 9.909 ng
RT: 15.242 min Scan# 2092
Delta R.T. 0.006 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:149 Resp: 282526

Ion	Ratio	Lower	Upper
149	100		
177	22.7	17.3	25.9
150	12.8	10.3	15.5



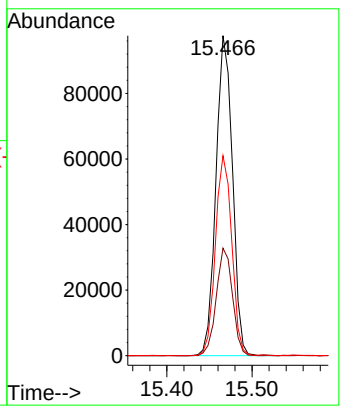


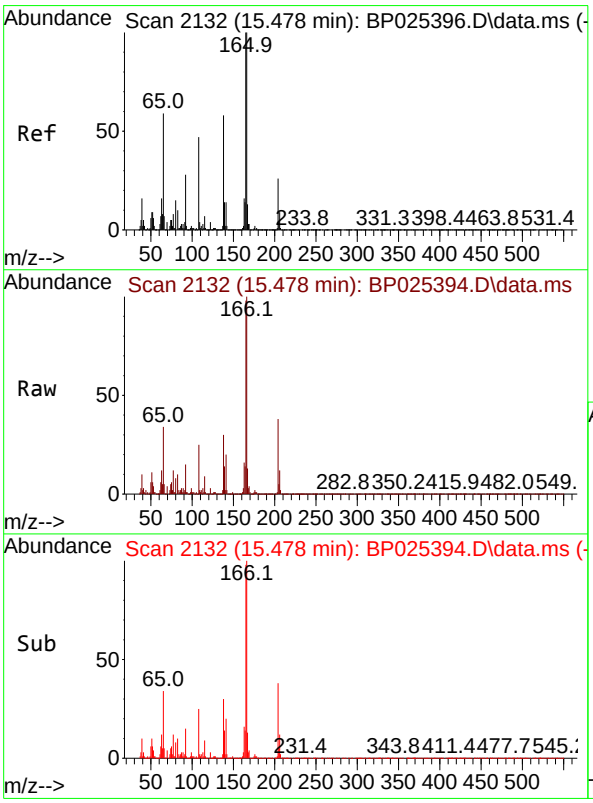
#61
4-Chlorophenyl-phenylether
Concen: 10.044 ng
RT: 15.466 min Scan# 21
Delta R.T. 0.006 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:204 Resp: 131137

Ion	Ratio	Lower	Upper
204	100		
206	33.6	25.8	38.8
141	62.5	49.4	74.2

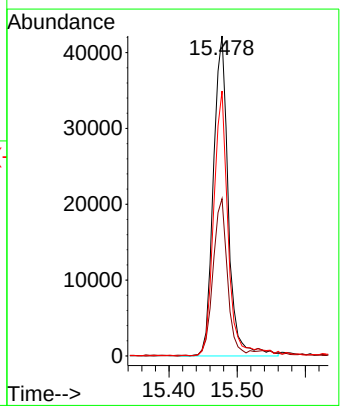


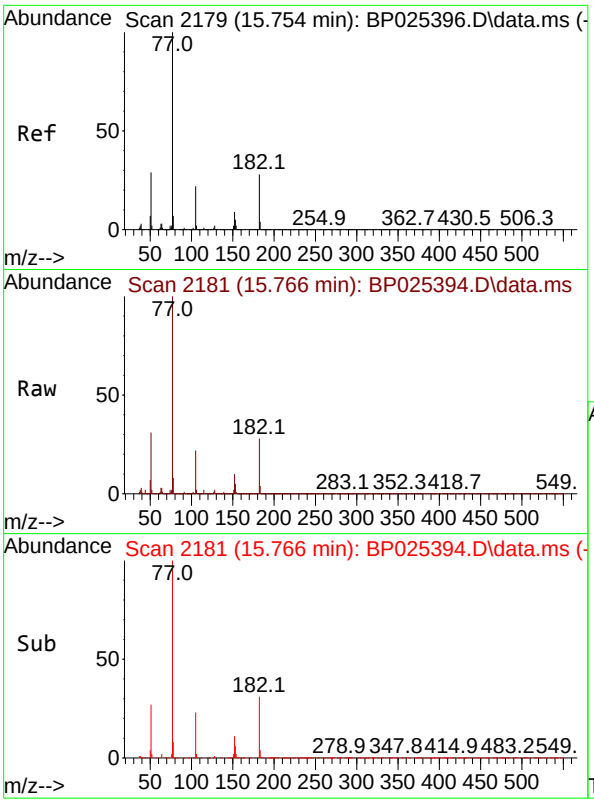


#62
4-Nitroaniline
Concen: 9.437 ng
RT: 15.478 min Scan# 2132
Delta R.T. 0.000 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:138 Resp: 64375

Ion	Ratio	Lower	Upper
138	100		
92	49.1	29.1	69.1
108	82.8	61.5	101.5



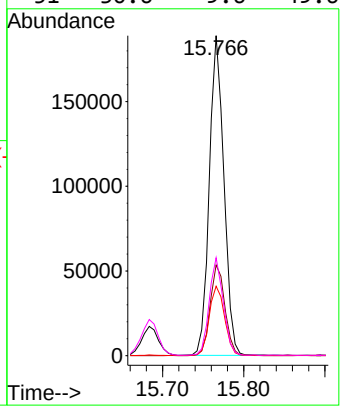


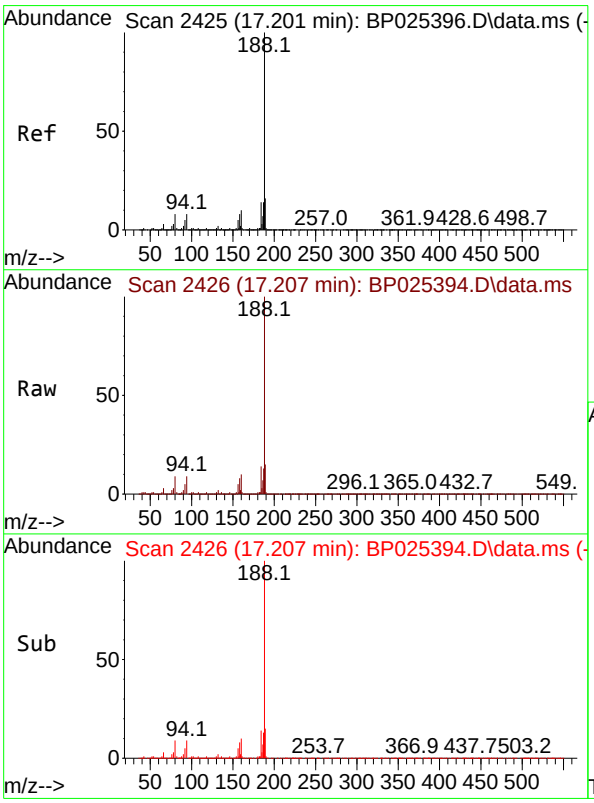
#63
Azobenzene
Concen: 9.620 ng
RT: 15.766 min Scan# 21
Delta R.T. 0.012 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion: 77 Resp: 234879

Ion	Ratio	Lower	Upper
77	100		
182	28.3	7.5	47.5
105	21.7	2.1	42.1
51	30.6	9.6	49.6

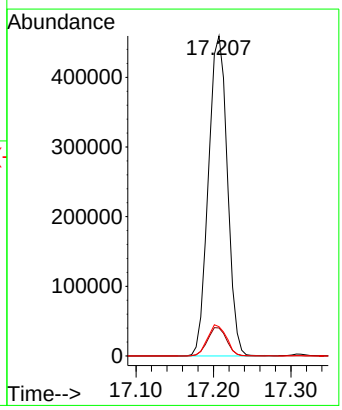


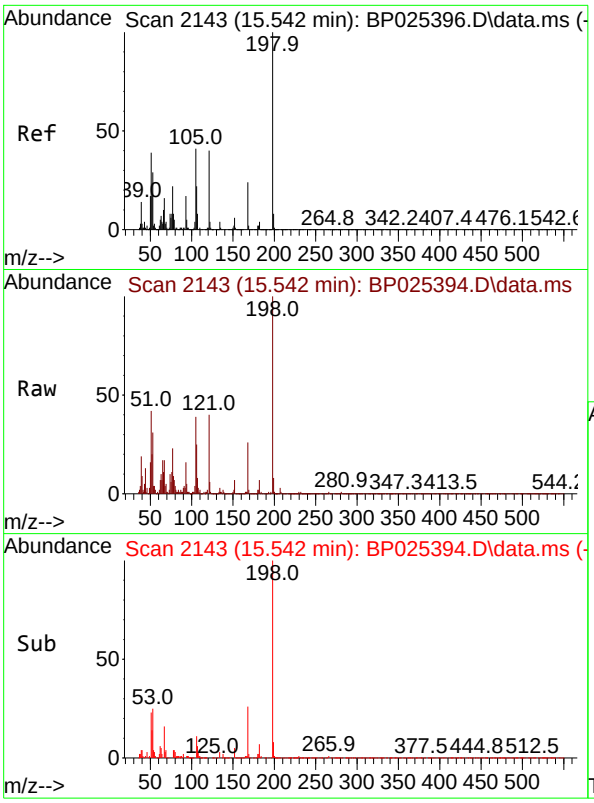


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.207 min Scan# 2426
Delta R.T. 0.006 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:188 Resp: 780940

Ion	Ratio	Lower	Upper
188	100		
94	8.7	6.6	10.0
80	9.1	6.7	10.1



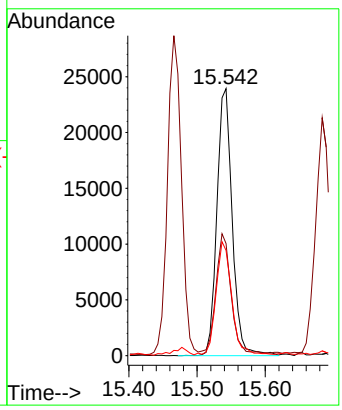


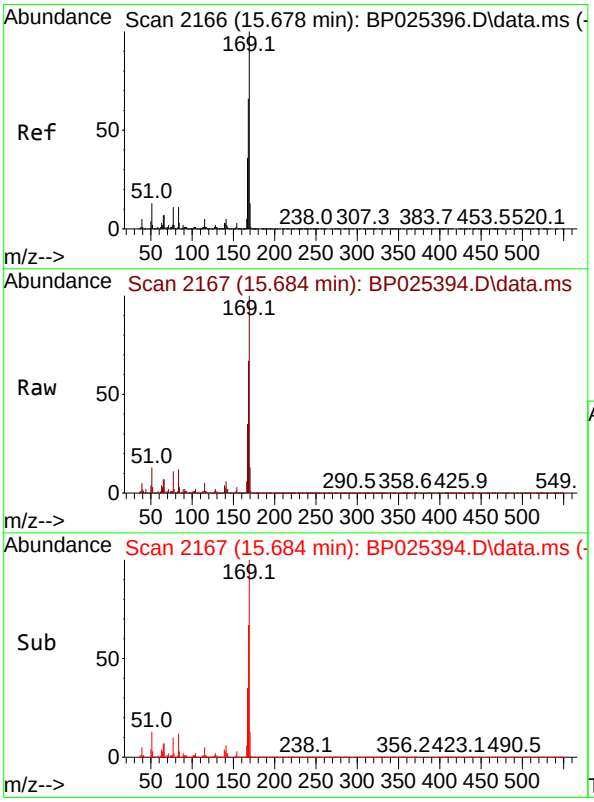
#65
4,6-Dinitro-2-methylphenol
Concen: 7.679 ng
RT: 15.542 min Scan# 21
Delta R.T. 0.000 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:198 Resp: 37380

Ion	Ratio	Lower	Upper
198	100		
51	42.0	19.6	59.6
105	39.4	20.9	60.9

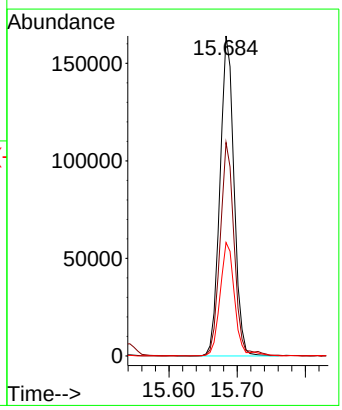


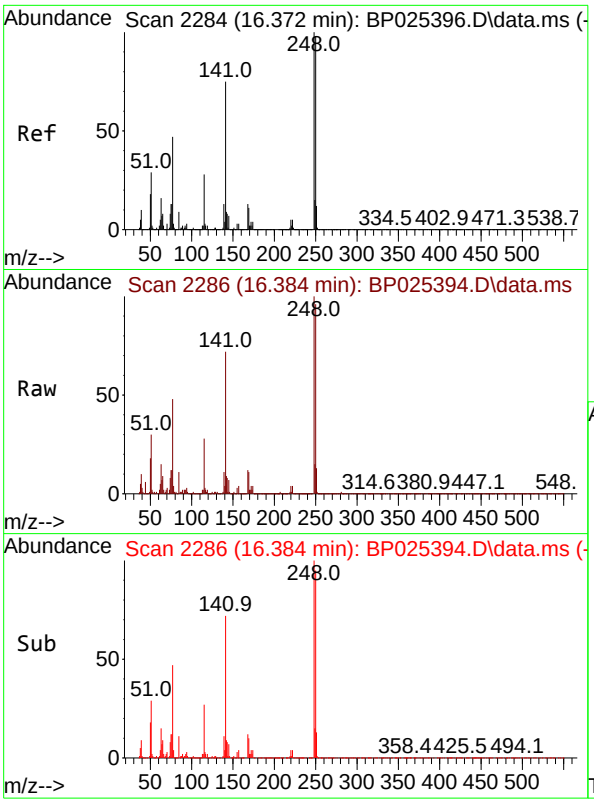


#66
n-Nitrosodiphenylamine
Concen: 9.883 ng
RT: 15.684 min Scan# 2167
Delta R.T. 0.006 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:169 Resp: 235344

Ion	Ratio	Lower	Upper
169	100		
168	66.7	53.2	79.8
167	35.5	28.7	43.1



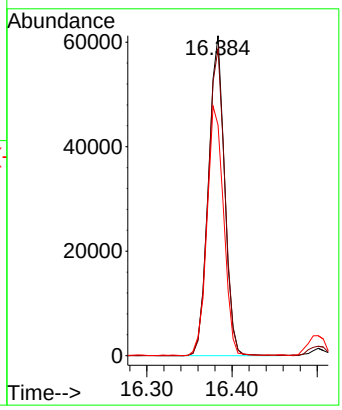


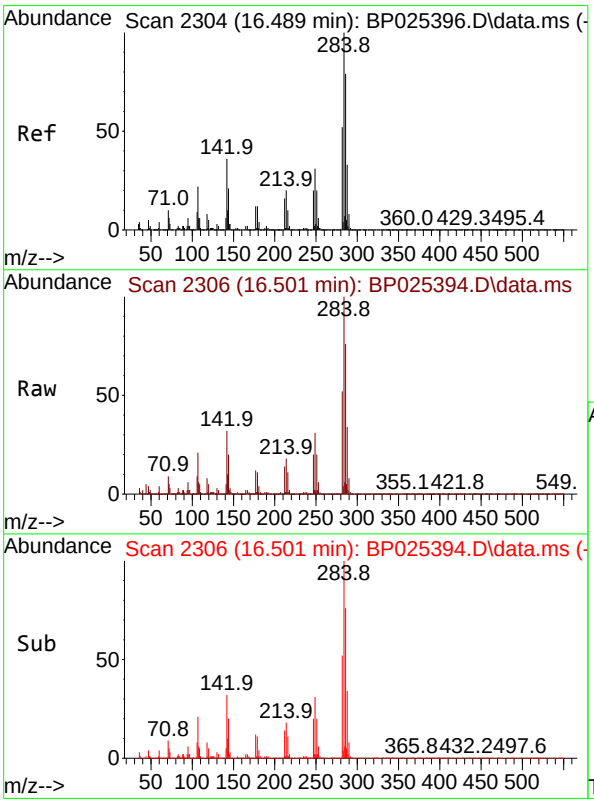
#67
4-Bromophenyl-phenylether
Concen: 9.358 ng
RT: 16.384 min Scan# 2
Delta R.T. 0.012 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:248 Resp: 80373

Ion	Ratio	Lower	Upper
248	100		
250	95.9	78.2	117.2
141	72.1	59.6	89.4

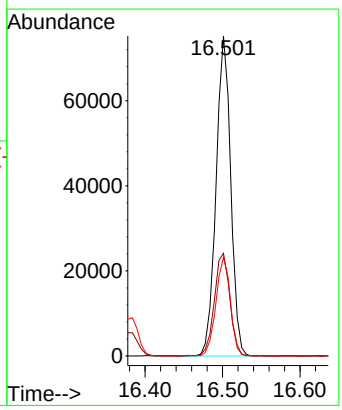


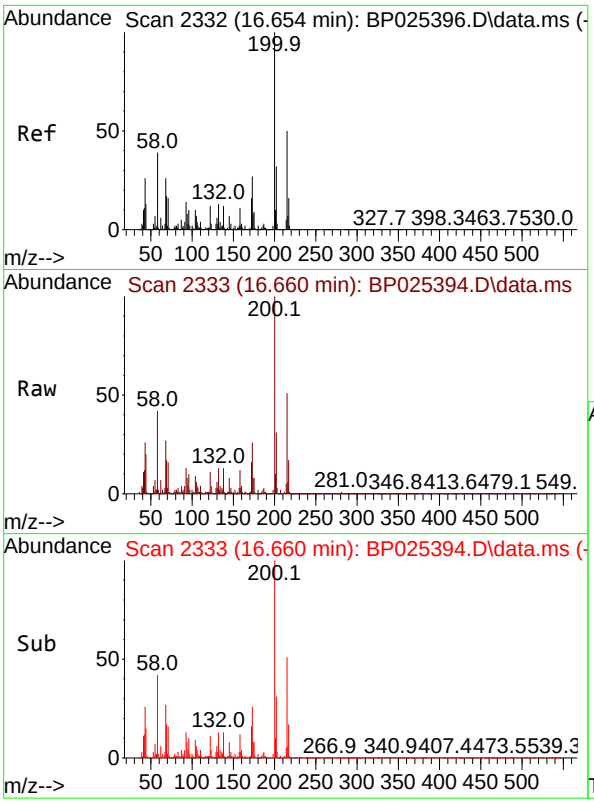


#68
Hexachlorobenzene
Concen: 9.905 ng
RT: 16.501 min Scan# 2306
Delta R.T. 0.012 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:284 Resp: 98614

Ion	Ratio	Lower	Upper
284	100		
142	32.1	29.1	43.7
249	30.8	25.0	37.4



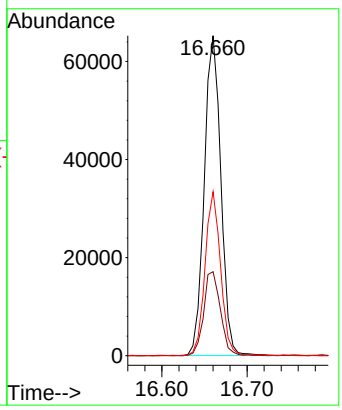


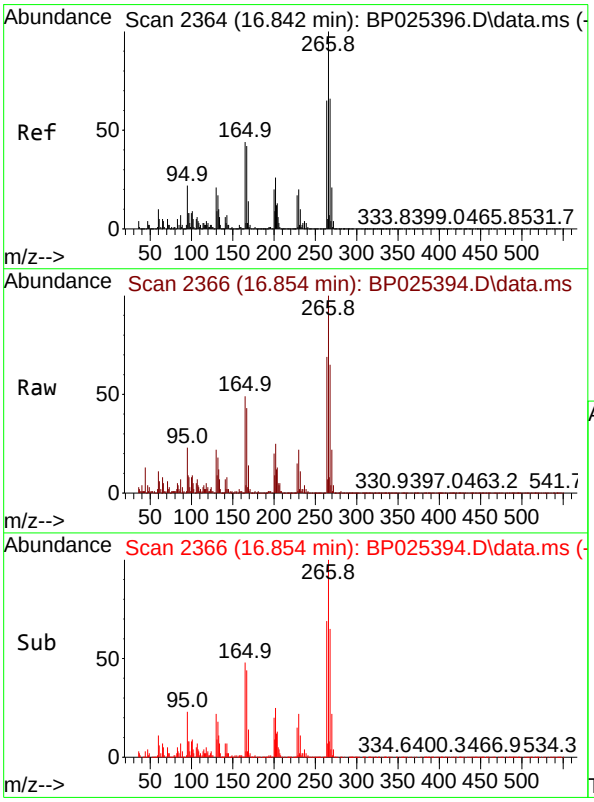
#69
Atrazine
Concen: 9.894 ng
RT: 16.660 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:200 Resp: 88240

Ion	Ratio	Lower	Upper
200	100		
173	26.2	6.7	46.7
215	51.3	29.7	69.7

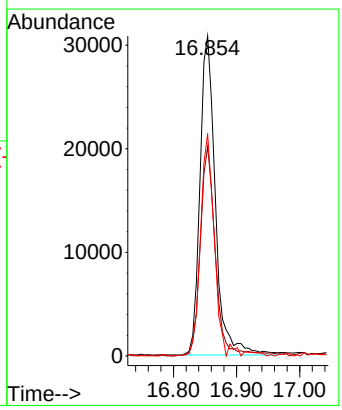


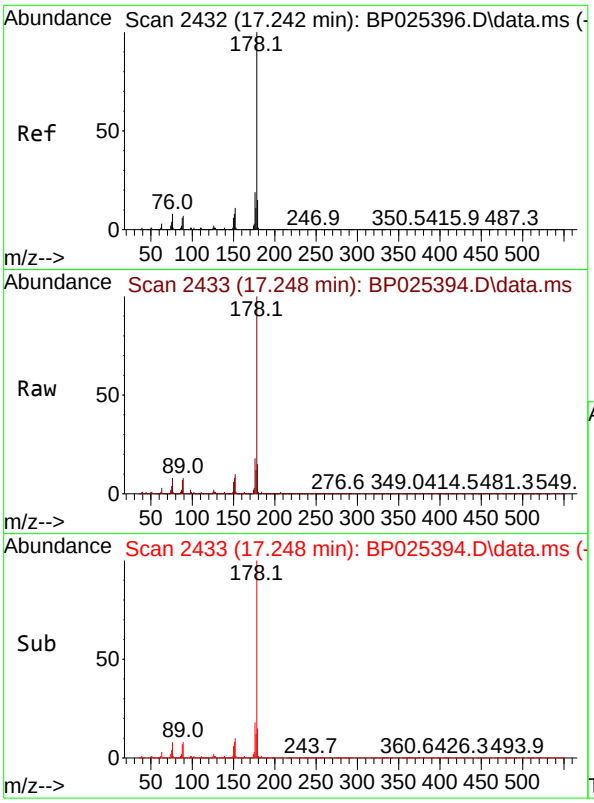


#70
Pentachlorophenol
Concen: 8.360 ng
RT: 16.854 min Scan# 2366
Delta R.T. 0.012 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:266 Resp: 52539

Ion	Ratio	Lower	Upper
266	100		
268	65.4	52.6	79.0
264	69.5	52.0	78.0



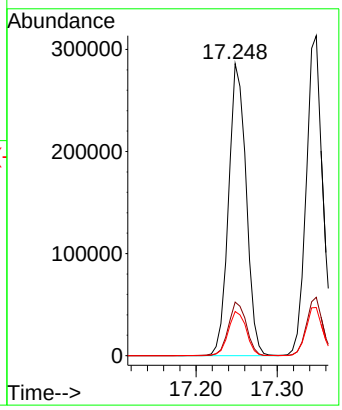


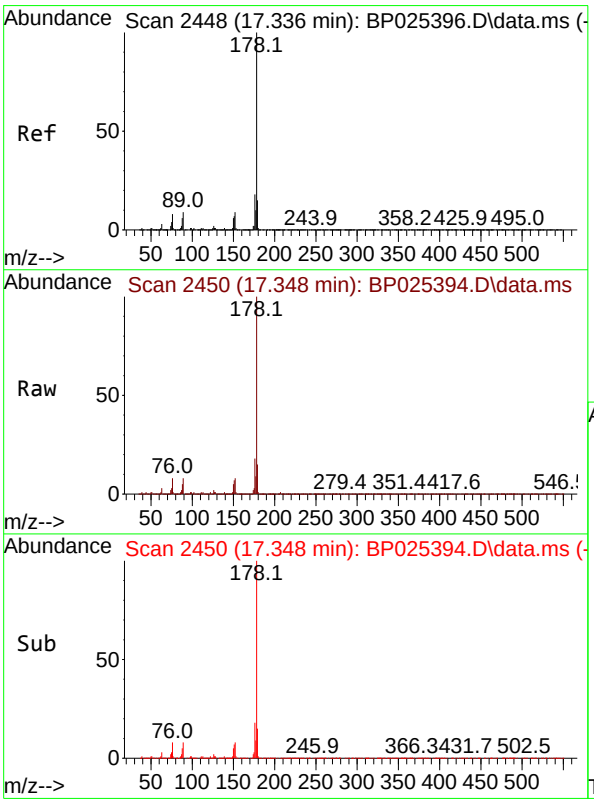
#71
Phenanthrene
Concen: 10.018 ng
RT: 17.248 min Scan# 24
Delta R.T. 0.006 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:178 Resp: 429752

Ion	Ratio	Lower	Upper
178	100		
176	18.4	15.5	23.3
179	15.1	12.2	18.4

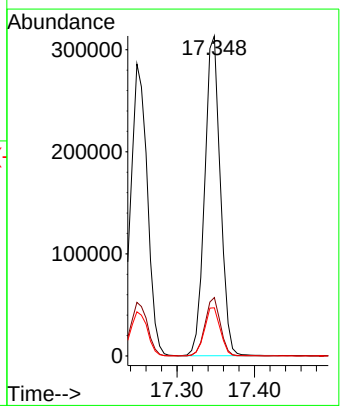


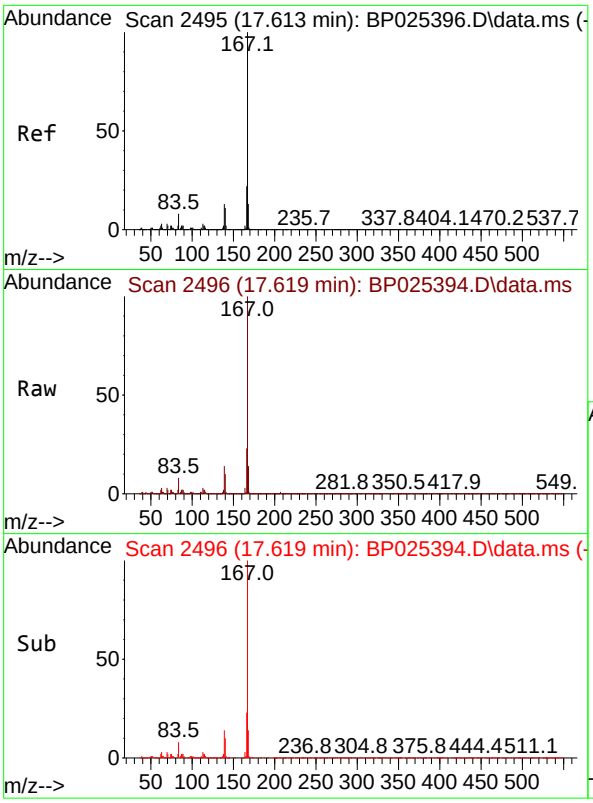


#72
Anthracene
Concen: 10.020 ng
RT: 17.348 min Scan# 2450
Delta R.T. 0.012 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:178 Resp: 438953

Ion	Ratio	Lower	Upper
178	100		
176	18.3	14.7	22.1
179	15.1	12.2	18.2



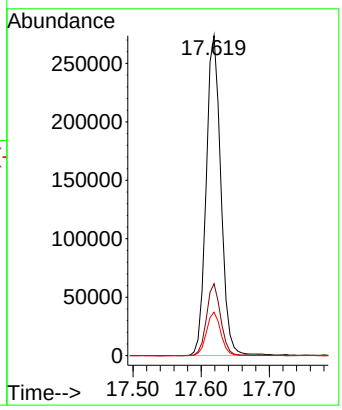


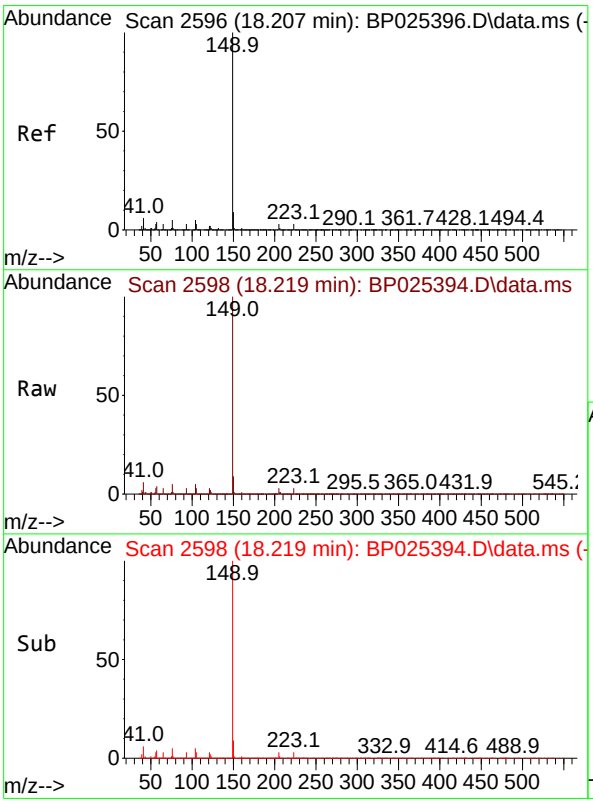
#73
Carbazole
Concen: 9.954 ng
RT: 17.619 min Scan# 24
Delta R.T. 0.006 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:167 Resp: 410726

Ion	Ratio	Lower	Upper
167	100		
166	22.5	17.5	26.3
139	13.6	10.6	16.0

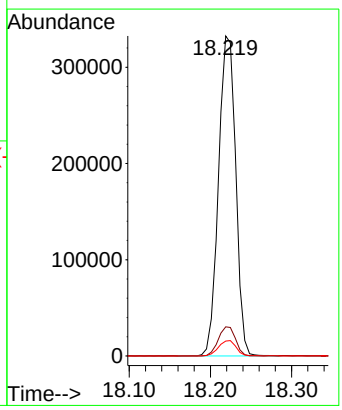


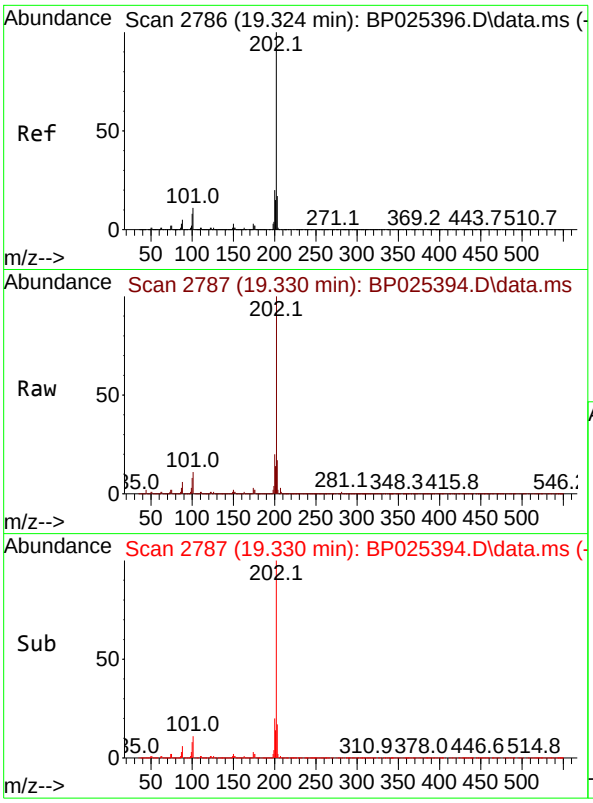


#74
Di-n-butylphthalate
Concen: 9.656 ng
RT: 18.219 min Scan# 2598
Delta R.T. 0.012 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:149 Resp: 490232

Ion	Ratio	Lower	Upper
149	100		
150	9.1	7.4	11.0
104	4.7	4.2	6.2



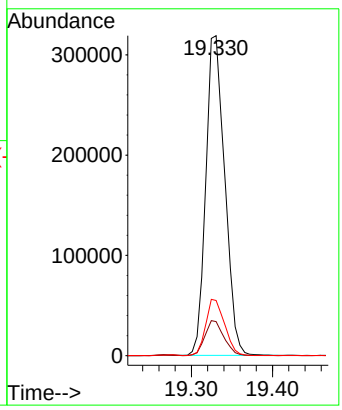


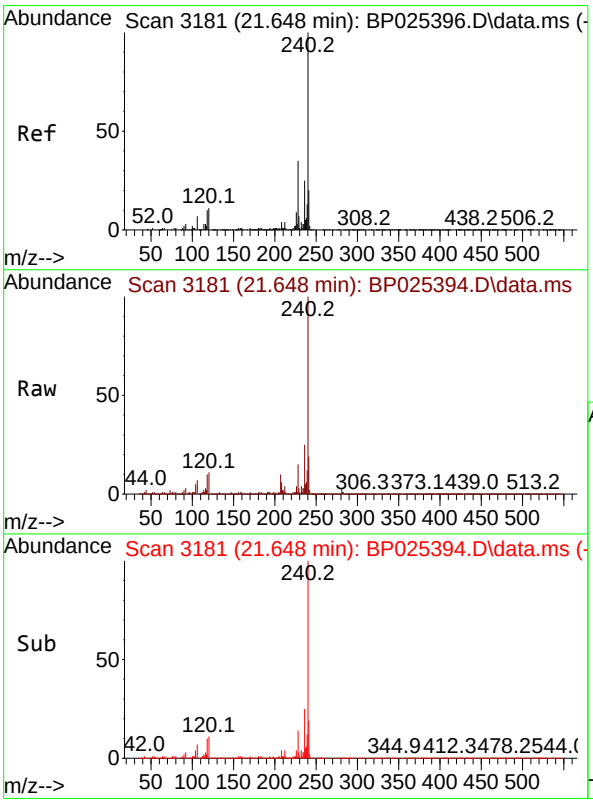
#75
Fluoranthene
Concen: 10.094 ng
RT: 19.330 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:202 Resp: 516523

Ion	Ratio	Lower	Upper
202	100		
101	10.6	0.0	31.1
203	17.2	0.0	37.3

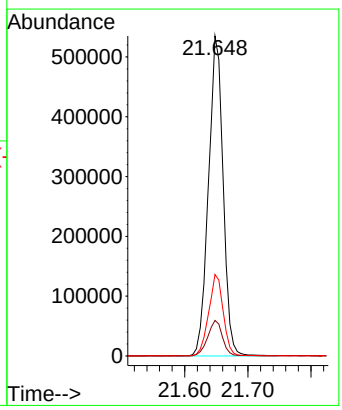


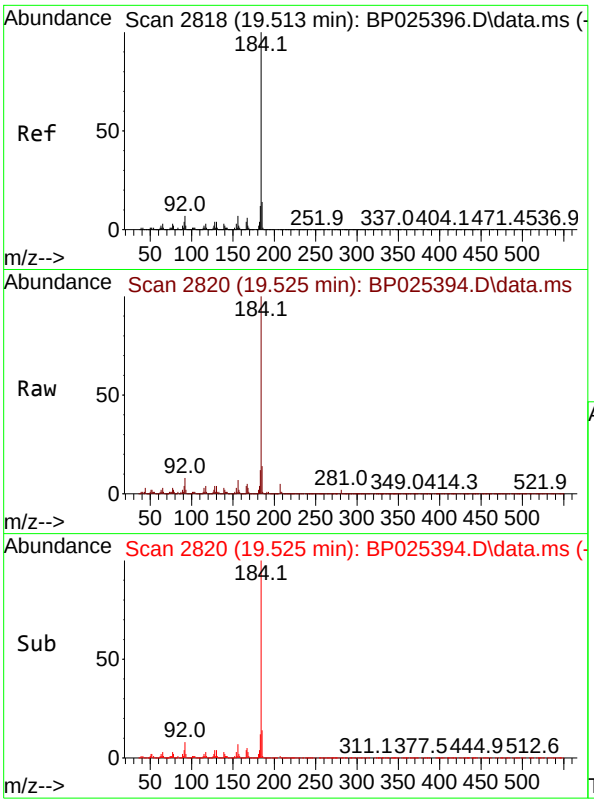


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.648 min Scan# 3181
Delta R.T. 0.000 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:240 Resp: 860386

Ion	Ratio	Lower	Upper
240	100		
120	11.1	8.9	13.3
236	25.5	19.8	29.8



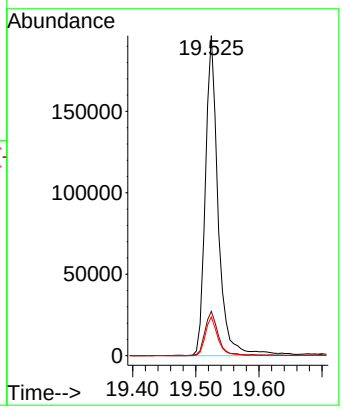


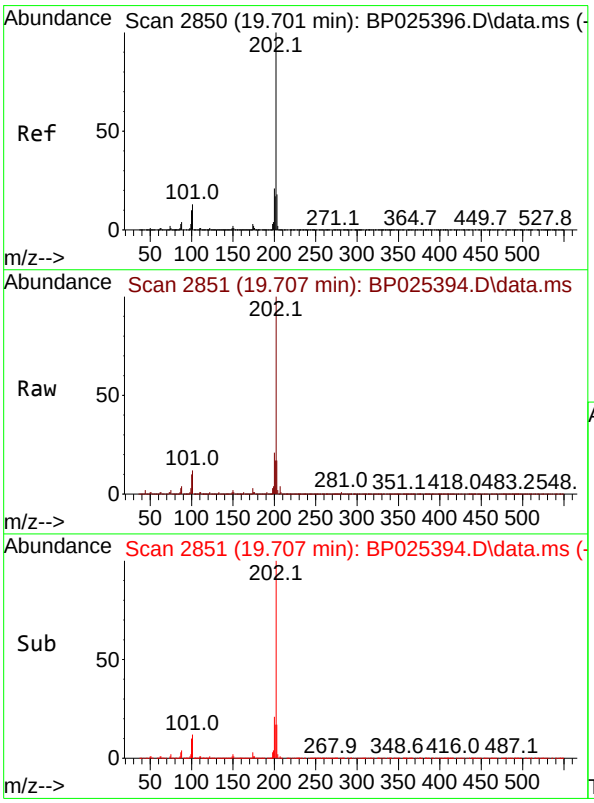
#77
Benzidine
Concen: 9.406 ng
RT: 19.525 min Scan# 2
Delta R.T. 0.012 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:184 Resp: 276193

Ion	Ratio	Lower	Upper
184	100		
185	13.8	11.5	17.3
183	12.1	9.4	14.2

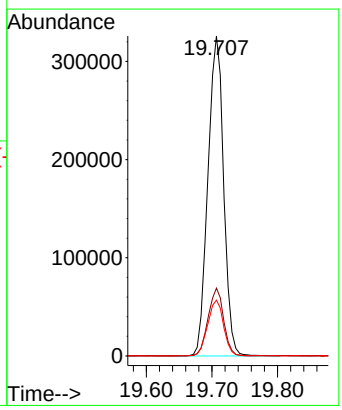


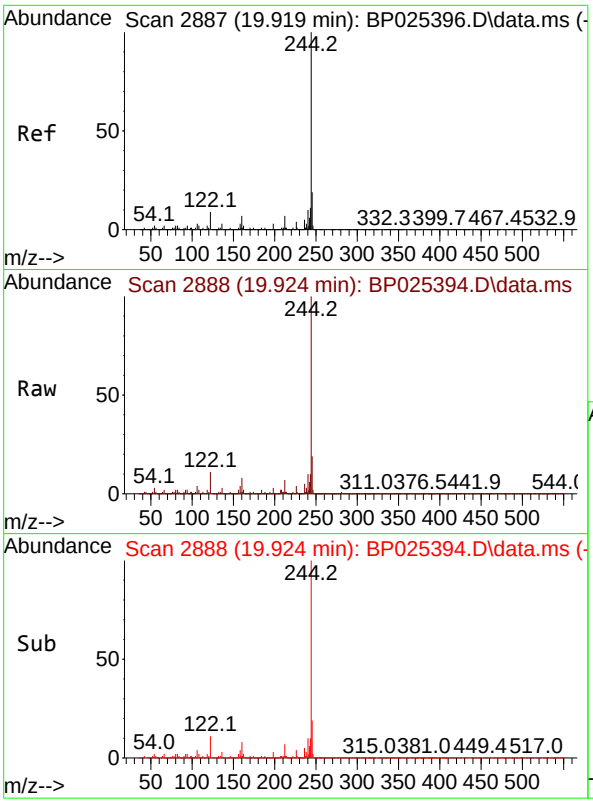


#78
Pyrene
Concen: 9.704 ng
RT: 19.707 min Scan# 2851
Delta R.T. 0.006 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:202 Resp: 542670

Ion	Ratio	Lower	Upper
202	100		
200	21.2	16.9	25.3
203	17.5	14.2	21.2



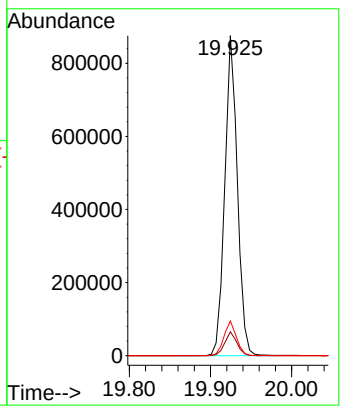


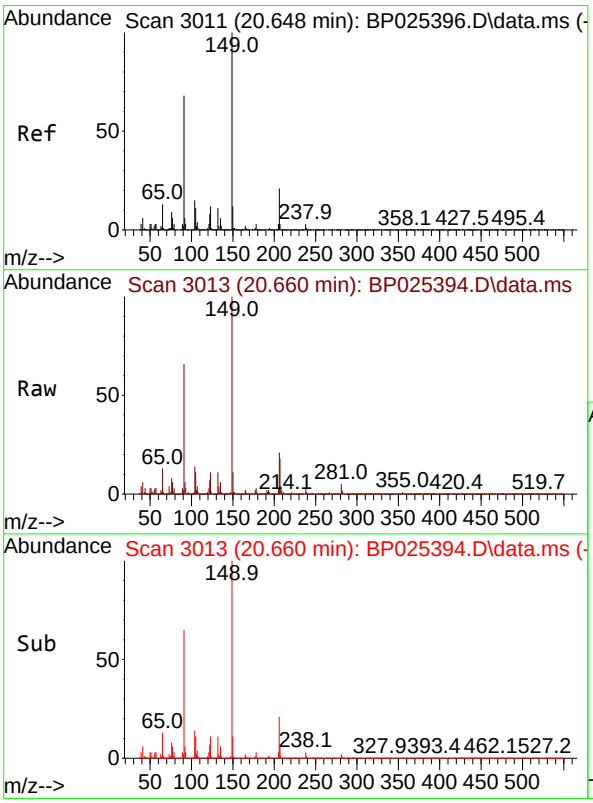
#79
Terphenyl-d14
Concen: 20.125 ng
RT: 19.924 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:244 Resp: 946422

Ion	Ratio	Lower	Upper
244	100		
212	7.4	5.8	8.6
122	10.9	7.4	11.2

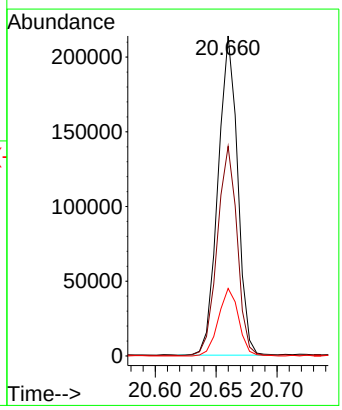


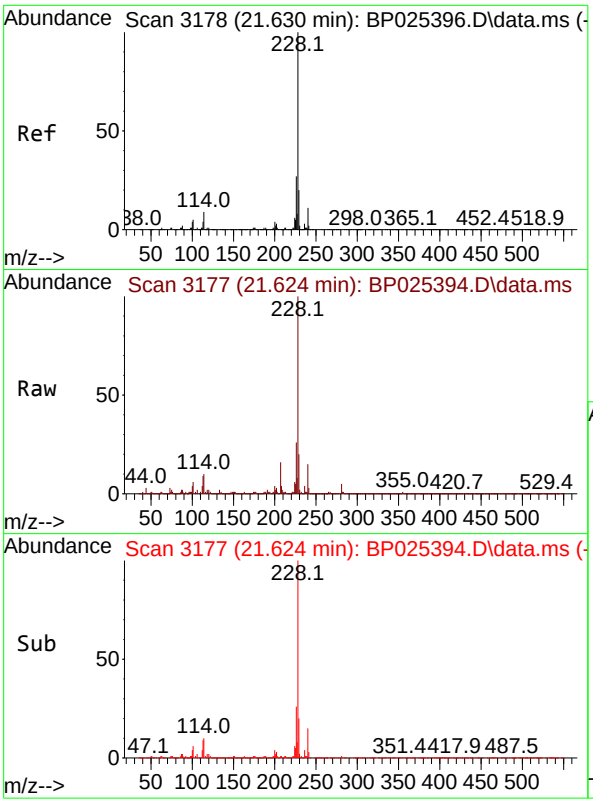


#80
Butylbenzylphthalate
Concen: 9.446 ng
RT: 20.660 min Scan# 3013
Delta R.T. 0.012 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:149 Resp: 239416

Ion	Ratio	Lower	Upper
149	100		
91	65.5	54.2	81.2
206	21.1	16.6	24.8



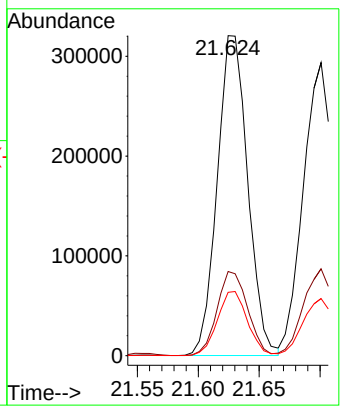


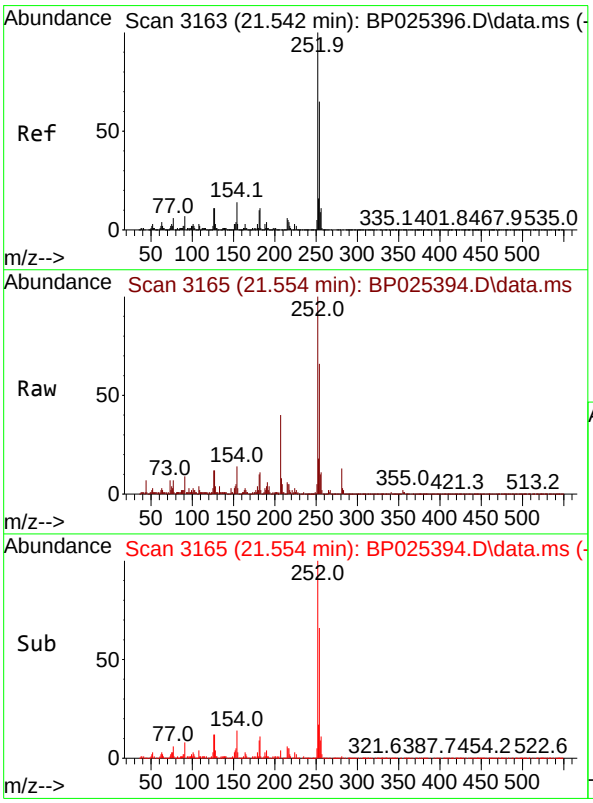
#81
Benzo(a)anthracene
Concen: 9.874 ng
RT: 21.624 min Scan# 3
Delta R.T. -0.006 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:228 Resp: 560279

Ion	Ratio	Lower	Upper
228	100		
226	26.3	21.7	32.5
229	19.8	15.6	23.4

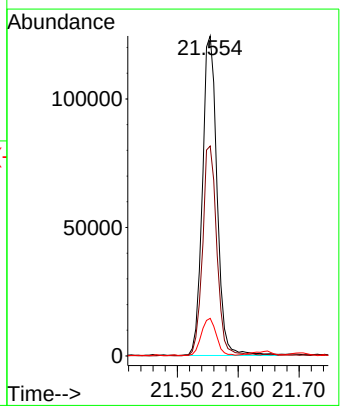


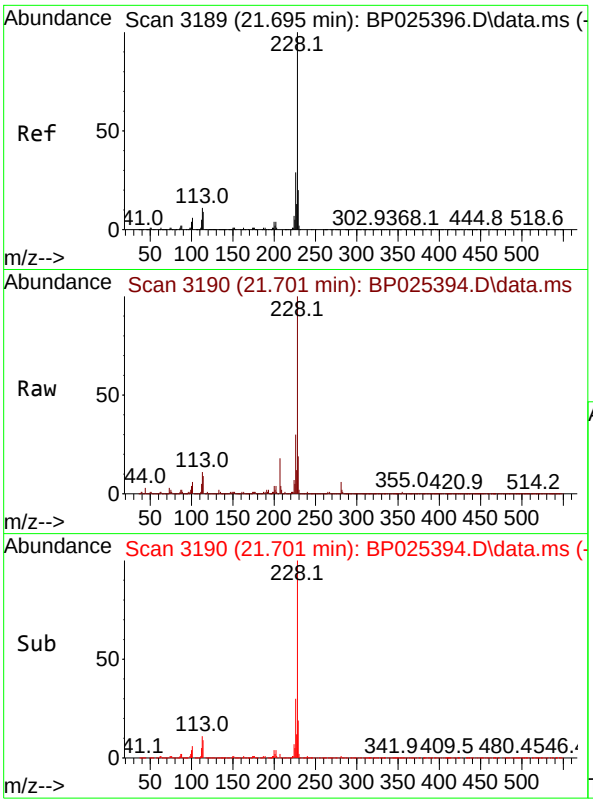


#82
3,3'-Dichlorobenzidine
Concen: 9.686 ng
RT: 21.554 min Scan# 3165
Delta R.T. 0.012 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:252 Resp: 207153

Ion	Ratio	Lower	Upper
252	100		
254	65.6	51.8	77.6
126	11.7	9.1	13.7



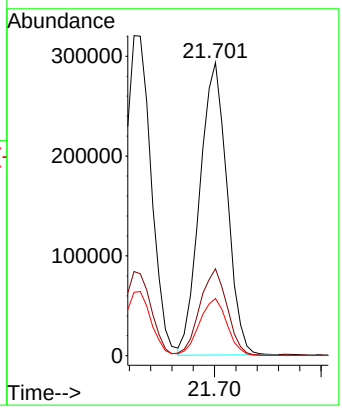


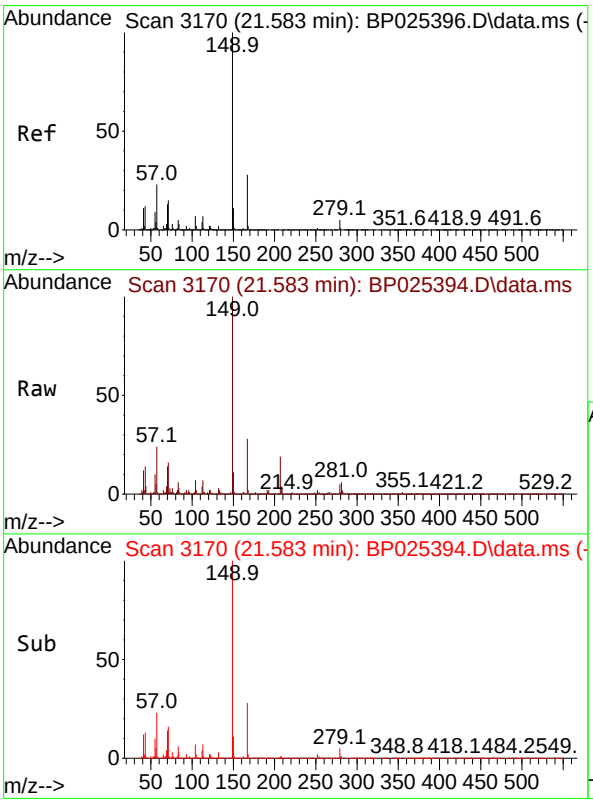
#83
Chrysene
Concen: 9.831 ng
RT: 21.701 min Scan# 3
Delta R.T. 0.006 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:228 Resp: 522411

Ion	Ratio	Lower	Upper
228	100		
226	29.6	23.2	34.8
229	19.5	15.6	23.4

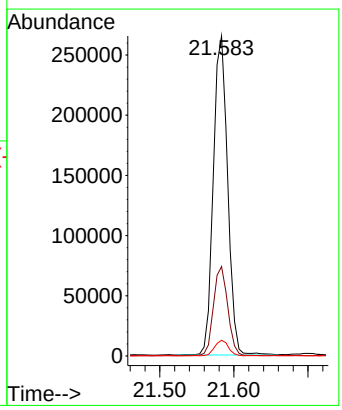


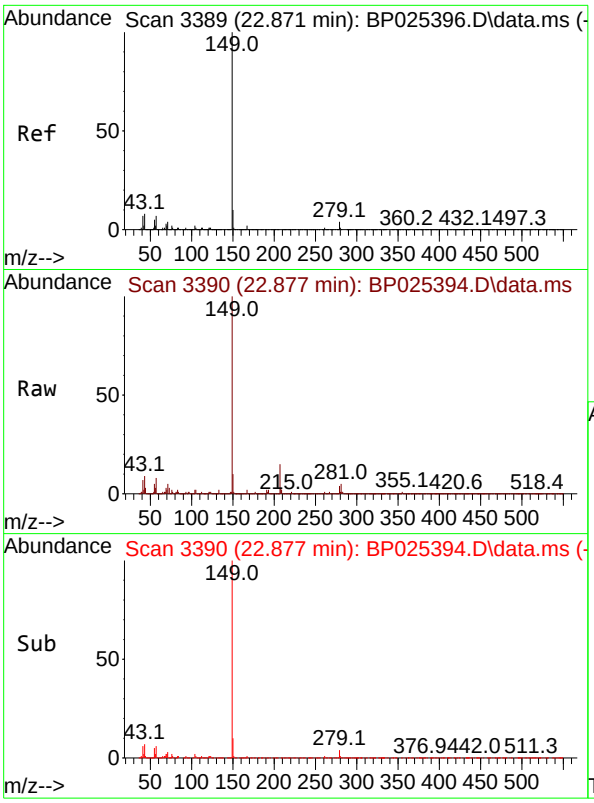


#84
Bis(2-ethylhexyl)phthalate
Concen: 9.529 ng
RT: 21.583 min Scan# 3170
Delta R.T. 0.000 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:149 Resp: 355530

Ion	Ratio	Lower	Upper
149	100		
167	27.9	22.1	33.1
279	4.9	3.8	5.6



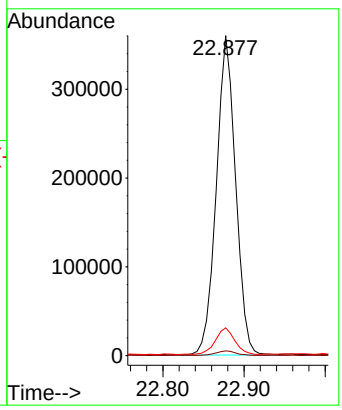


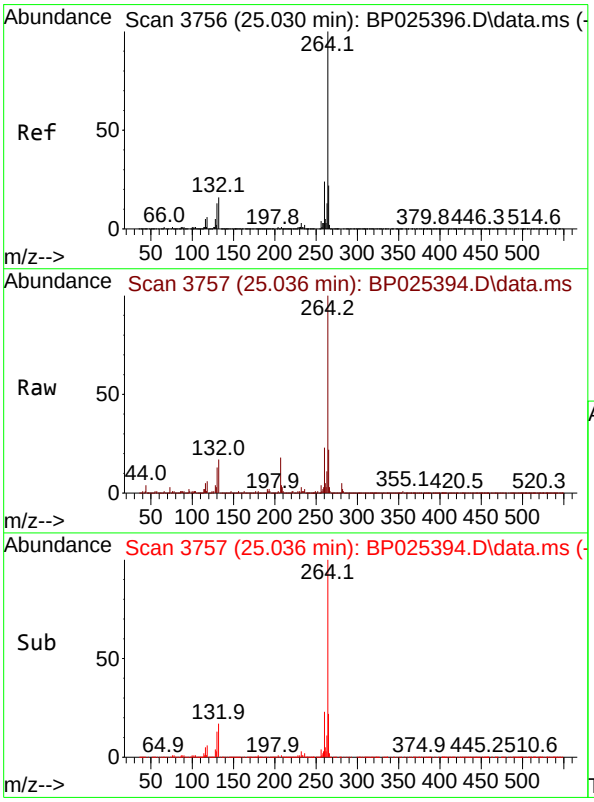
#85
Di-n-octyl phthalate
Concen: 9.259 ng
RT: 22.877 min Scan# 3
Delta R.T. 0.006 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:149 Resp: 594195

Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.3	1.9
43	8.4	6.3	9.5

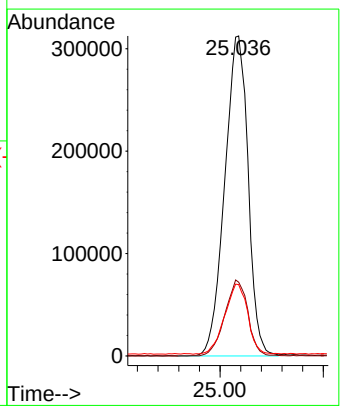


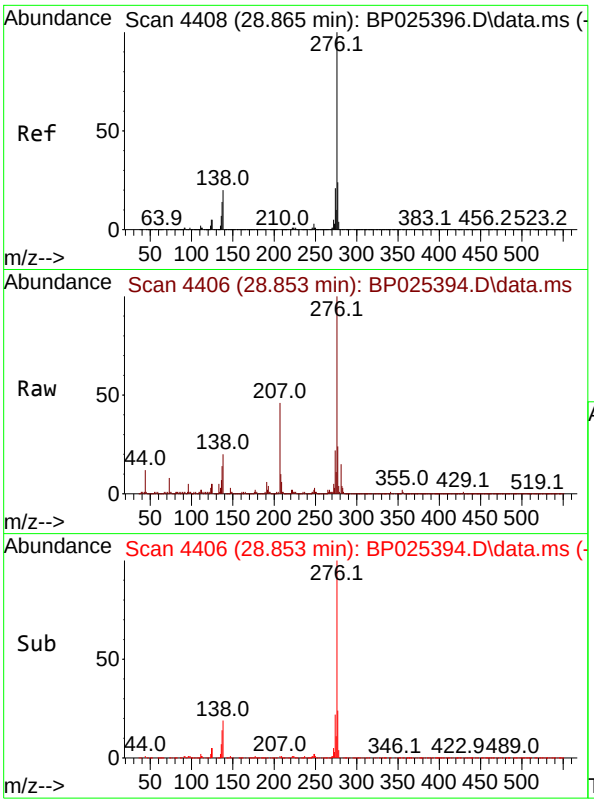


#86
Perylene-d12
Concen: 20.000 ng
RT: 25.036 min Scan# 3757
Delta R.T. 0.006 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:264 Resp: 980670

Ion	Ratio	Lower	Upper
264	100		
260	23.0	19.3	28.9
265	22.3	17.4	26.0



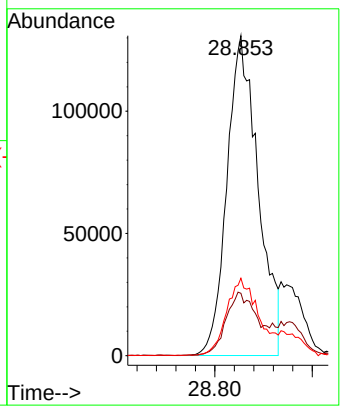


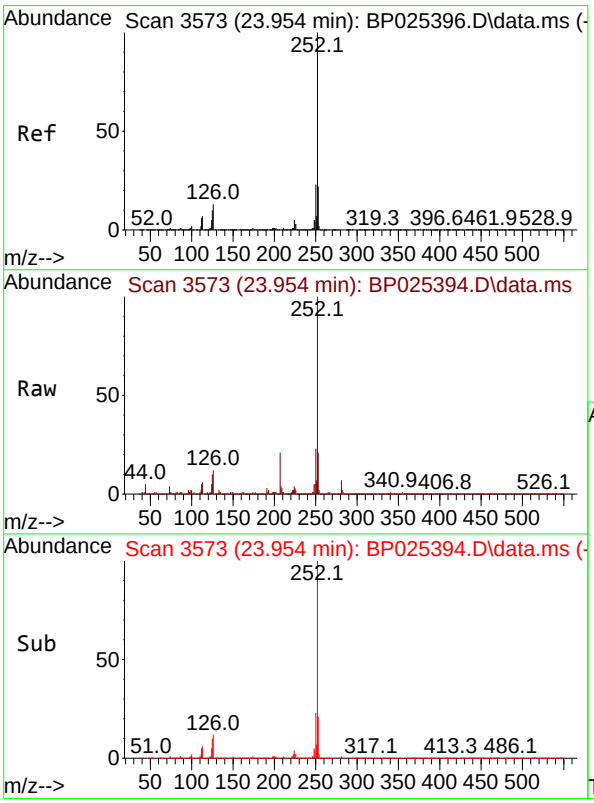
#87
Indeno(1,2,3-cd)pyrene
Concen: 8.101 ng
RT: 28.853 min Scan# 4
Delta R.T. -0.012 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:276 Resp: 582808

Ion	Ratio	Lower	Upper
276	100		
138	19.4	12.9	19.3#
277	24.6	17.0	25.6

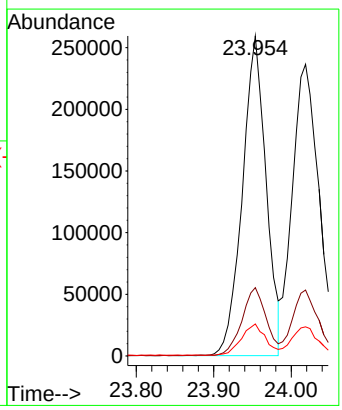


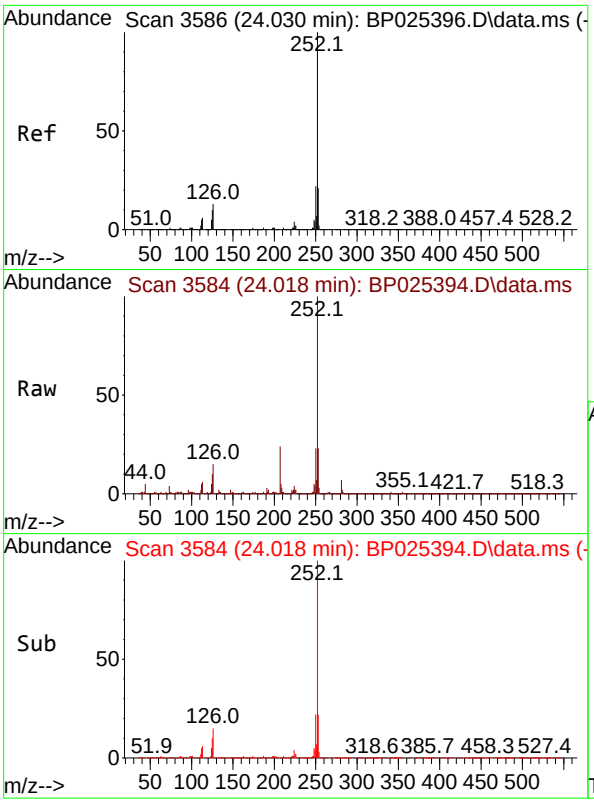


#88
Benzo(b)fluoranthene
Concen: 9.549 ng
RT: 23.954 min Scan# 3573
Delta R.T. 0.000 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:252 Resp: 552191

Ion	Ratio	Lower	Upper
252	100		
253	21.4	17.7	26.5
125	10.0	7.9	11.9



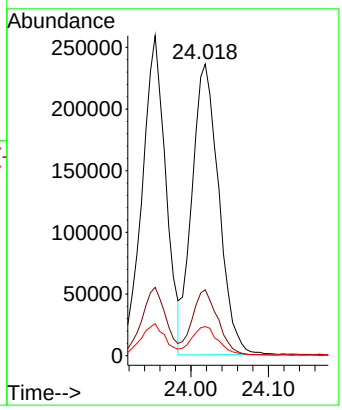


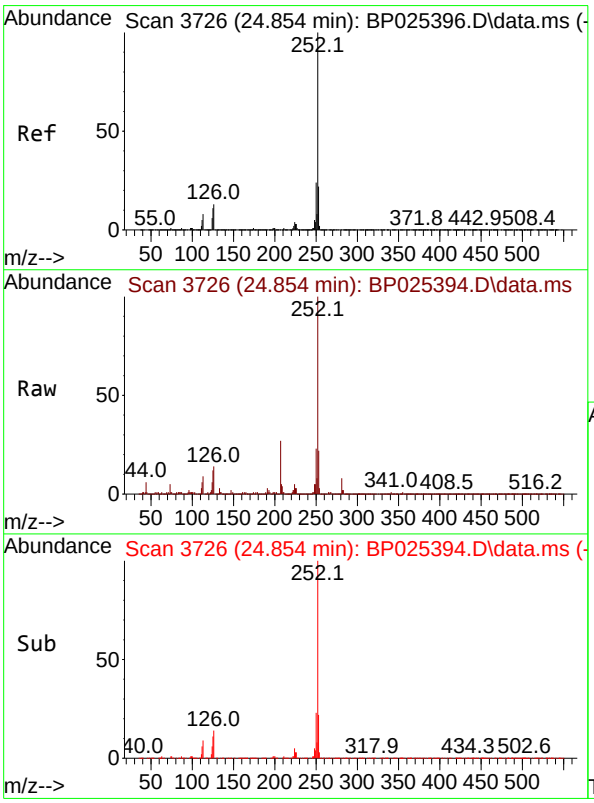
#89
Benzo(k)fluoranthene
Concen: 9.800 ng
RT: 24.018 min Scan# 3
Delta R.T. -0.012 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:252 Resp: 567080

Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.1	25.7
125	10.0	7.8	11.6

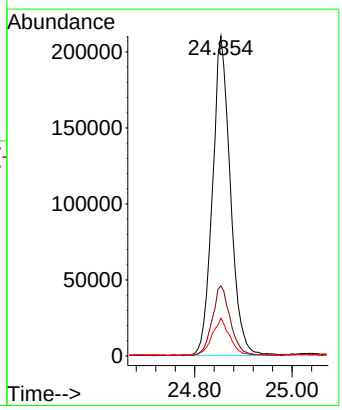


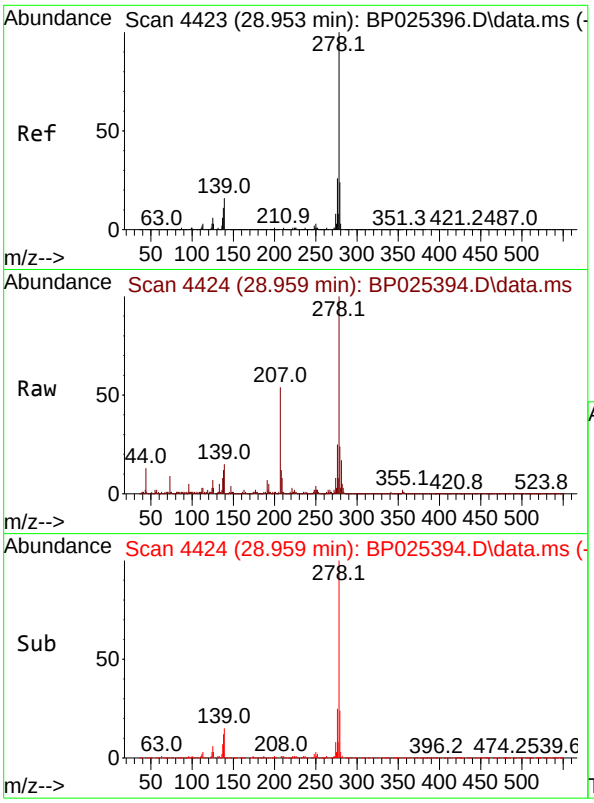


#90
Benzo(a)pyrene
Concen: 9.519 ng
RT: 24.854 min Scan# 3726
Delta R.T. 0.000 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:252 Resp: 535820

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.5	26.3
125	11.8	8.7	13.1



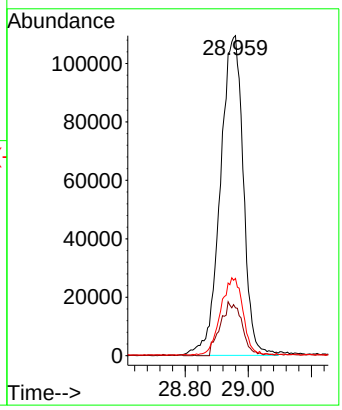


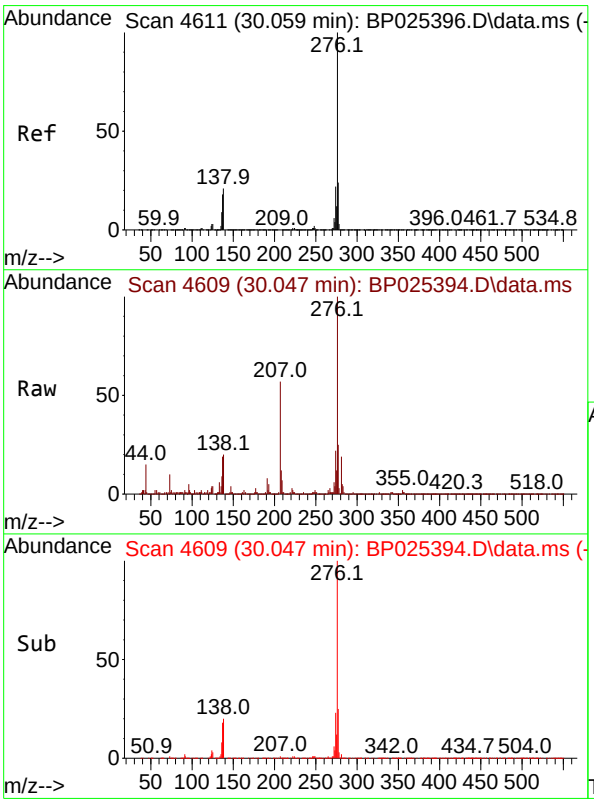
#91
Dibenzo(a,h)anthracene
Concen: 9.387 ng
RT: 28.959 min Scan# 4
Delta R.T. 0.006 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:278 Resp: 551694

Ion	Ratio	Lower	Upper
278	100		
139	15.0	13.0	19.4
279	24.2	19.4	29.2

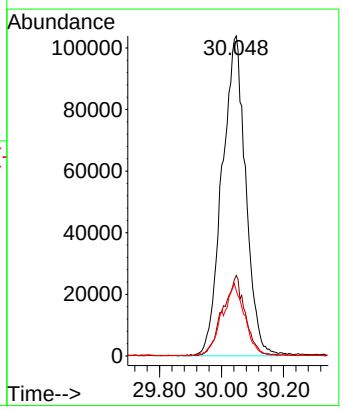




#92
Benzo(g,h,i)perylene
Concen: 9.489 ng
RT: 30.047 min Scan# 4609
Delta R.T. -0.012 min
Lab File: BP025394.D
Acq: 14 Aug 2025 13:56

Tgt Ion:276 Resp: 548117

Ion	Ratio	Lower	Upper
276	100		
277	25.1	19.4	29.0
138	20.4	16.7	25.1



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081425\
Data File : BP025395.D
Acq On : 14 Aug 2025 14:38
Operator : CG/JU
Sample : SSTDICC020
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Quant Time: Aug 14 17:54:49 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 17:44:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.790	152	141721	20.000	ng		0.00
21) Naphthalene-d8	10.560	136	603797	20.000	ng		0.00
39) Acenaphthene-d10	14.413	164	399034	20.000	ng		0.00
64) Phenanthrene-d10	17.213	188	785736	20.000	ng		0.01
76) Chrysene-d12	21.654	240	852065	20.000	ng		0.00
86) Perylene-d12	25.036	264	958651	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.408	112	338568	39.674	ng		0.00
7) Phenol-d6	6.966	99	434388	39.702	ng		0.00
23) Nitrobenzene-d5	8.931	82	473937	39.706	ng		0.00
42) 2,4,6-Tribromophenol	15.925	330	212968	39.651	ng		0.01
45) 2-Fluorobiphenyl	13.025	172	1203064	41.205	ng		0.00
79) Terphenyl-d14	19.930	244	1869951	40.152	ng		0.01
Target Compounds							Qvalue
2) 1,4-Dioxane	3.331	88	67276	20.126	ng		99
3) Pyridine	3.731	79	177948	19.450	ng		98
4) n-Nitrosodimethylamine	3.637	42	72627	19.255	ng	#	96
6) Aniline	7.125	93	287645	19.513	ng		99
8) 2-Chlorophenol	7.366	128	190858	19.819	ng		99
9) Benzaldehyde	6.937	77	135464	17.672	ng		99
10) Phenol	6.990	94	228580	19.910	ng		98
11) bis(2-Chloroethyl)ether	7.219	93	180390	20.159	ng		98
12) 1,3-Dichlorobenzene	7.684	146	213023	20.061	ng		99
13) 1,4-Dichlorobenzene	7.825	146	216400	19.938	ng		99
14) 1,2-Dichlorobenzene	8.143	146	211243	20.106	ng		99
15) Benzyl Alcohol	8.019	79	170736	19.640	ng		98
16) 2,2'-oxybis(1-Chloropr...	8.307	45	242616	20.240	ng		99
17) 2-Methylphenol	8.225	107	159119	19.956	ng		98
18) Hexachloroethane	8.866	117	78205	19.597	ng		94
19) n-Nitroso-di-n-propyla...	8.584	70	149715	20.633	ng		97
20) 3+4-Methylphenols	8.543	107	217240	19.655	ng		98
22) Acetophenone	8.596	105	305812	20.196	ng		99
24) Nitrobenzene	8.972	77	210234	19.708	ng		100
25) Isophorone	9.496	82	422370	19.995	ng		99
26) 2-Nitrophenol	9.678	139	106805	19.509	ng		98
27) 2,4-Dimethylphenol	9.743	122	178534	18.963	ng		99
28) bis(2-Chloroethoxy)met...	9.972	93	256656	20.100	ng		99
29) 2,4-Dichlorophenol	10.207	162	186076	19.896	ng		99
30) 1,2,4-Trichlorobenzene	10.425	180	201995	19.702	ng		98
31) Naphthalene	10.613	128	625899	19.944	ng		99
32) Benzoic acid	9.843	122	112932	16.287	ng		97
33) 4-Chloroaniline	10.713	127	270158	19.489	ng		99
34) Hexachlorobutadiene	10.901	225	127593	19.983	ng		99
35) Caprolactam	11.484	113	66168	19.294	ng		95
36) 4-Chloro-3-methylphenol	11.837	107	209817	19.551	ng		97
37) 2-Methylnaphthalene	12.219	142	409613	20.057	ng		99
38) 1-Methylnaphthalene	12.443	142	430666	19.829	ng		100
40) 1,2,4,5-Tetrachloroben...	12.590	216	233523	20.263	ng		99
41) Hexachlorocyclopentadiene	12.572	237	124759	17.922	ng		98
43) 2,4,6-Trichlorophenol	12.831	196	152031	19.540	ng		99

Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081425\
Data File : BP025395.D
Acq On : 14 Aug 2025 14:38
Operator : CG/JU
Sample : SSTDICC020
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Quant Time: Aug 14 17:54:49 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 17:44:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.901	196	169197	19.842	ng	98
46) 1,1'-Biphenyl	13.237	154	581464	20.064	ng	100
47) 2-Chloronaphthalene	13.272	162	456552	20.237	ng	98
48) 2-Nitroaniline	13.478	65	126433	19.233	ng	99
49) Acenaphthylene	14.137	152	737527	19.756	ng	99
50) Dimethylphthalate	13.866	163	573661	19.632	ng	100
51) 2,6-Dinitrotoluene	13.966	165	120693	19.597	ng	96
52) Acenaphthene	14.484	154	469441	21.423	ng	99
53) 3-Nitroaniline	14.301	138	134502	19.410	ng	97
54) 2,4-Dinitrophenol	14.519	184	55713	16.939	ng	98
55) Dibenzofuran	14.819	168	692966	20.002	ng	99
56) 4-Nitrophenol	14.619	139	105787	18.578	ng	98
57) 2,4-Dinitrotoluene	14.772	165	172020	19.576	ng	96
58) Fluorene	15.478	166	554647	20.289	ng	100
59) 2,3,4,6-Tetrachlorophenol	15.048	232	145926	19.381	ng	99
60) Diethylphthalate	15.248	149	584590	19.689	ng	99
61) 4-Chlorophenyl-phenyle...	15.472	204	270949	19.929	ng	98
62) 4-Nitroaniline	15.478	138	139202	19.595	ng	100
63) Azobenzene	15.766	77	508563	20.004	ng	100
65) 4,6-Dinitro-2-methylph...	15.548	198	88992	18.169	ng	97
66) n-Nitrosodiphenylamine	15.684	169	477080	19.911	ng	99
67) 4-Bromophenyl-phenylether	16.389	248	170738	19.758	ng	97
68) Hexachlorobenzene	16.495	284	199410	19.906	ng	99
69) Atrazine	16.666	200	179513	20.006	ng	99
70) Pentachlorophenol	16.848	266	120958	19.128	ng	99
71) Phenanthrene	17.254	178	872890	20.223	ng	99
72) Anthracene	17.342	178	890292	20.198	ng	100
73) Carbazole	17.625	167	843970	20.328	ng	99
74) Di-n-butylphthalate	18.219	149	1046709	20.491	ng	100
75) Fluoranthene	19.342	202	1058912	20.567	ng	99
77) Benzidine	19.525	184	546647	18.799	ng	99
78) Pyrene	19.713	202	1096965	19.807	ng	99
80) Butylbenzylphthalate	20.666	149	504019	20.081	ng	97
81) Benzo(a)anthracene	21.630	228	1118590	19.906	ng	100
82) 3,3'-Dichlorobenzidine	21.548	252	432075	20.399	ng	100
83) Chrysene	21.707	228	1063898	20.216	ng	99
84) Bis(2-ethylhexyl)phtha...	21.577	149	744704	20.155	ng	99
85) Di-n-octyl phthalate	22.871	149	1276798	20.091	ng	100
87) Indeno(1,2,3-cd)pyrene	28.865	276	1166289	16.584	ng	94
88) Benzo(b)fluoranthene	23.948	252	1122408	19.855	ng	100
89) Benzo(k)fluoranthene	24.018	252	1150366	20.336	ng	100
90) Benzo(a)pyrene	24.854	252	1102804	20.041	ng	100
91) Dibenzo(a,h)anthracene	28.965	278	1130209	19.672	ng	98
92) Benzo(g,h,i)perylene	30.053	276	1120307	19.840	ng	99

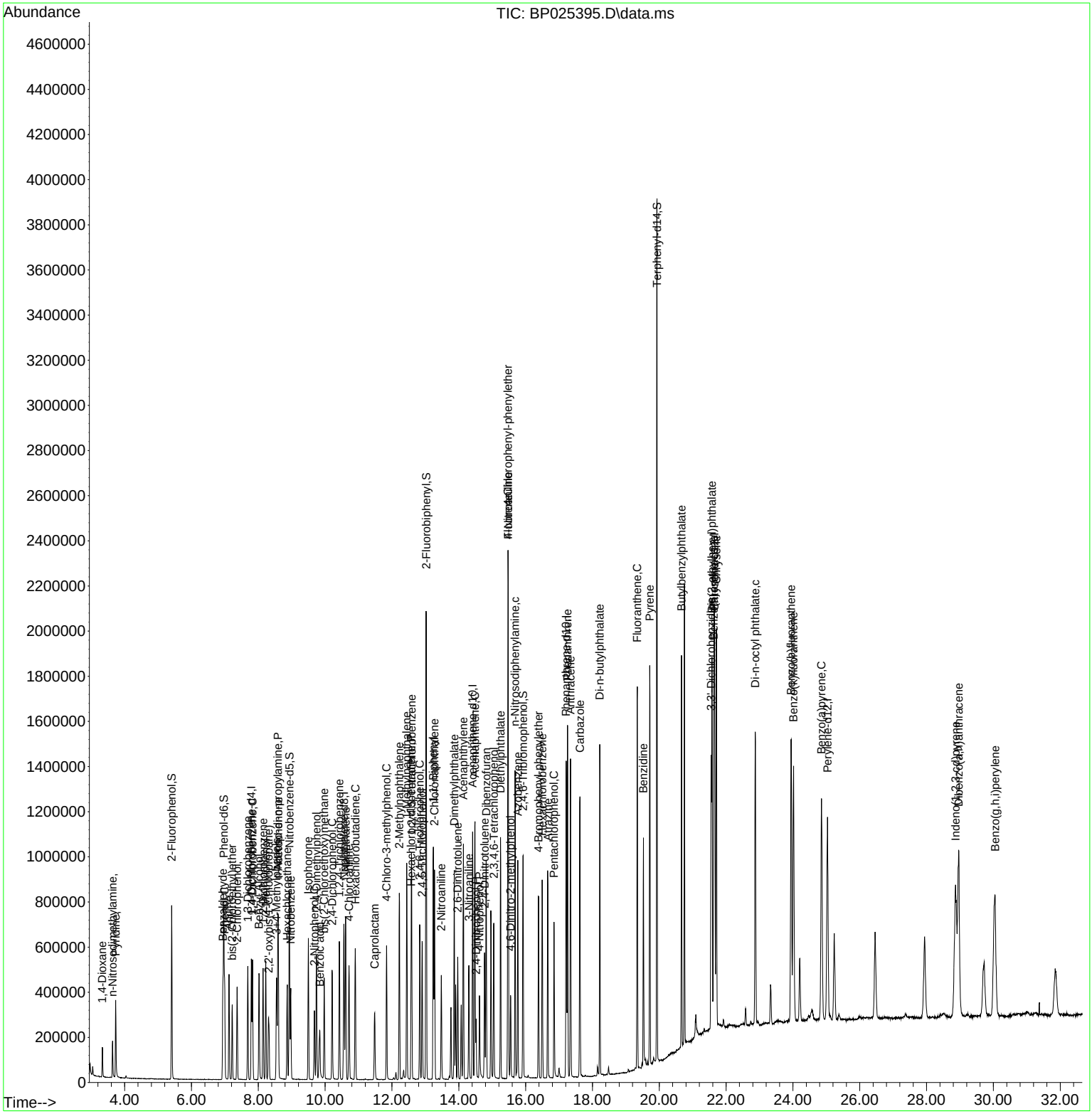
(#) = qualifier out of range (m) = manual integration (+) = signals summed

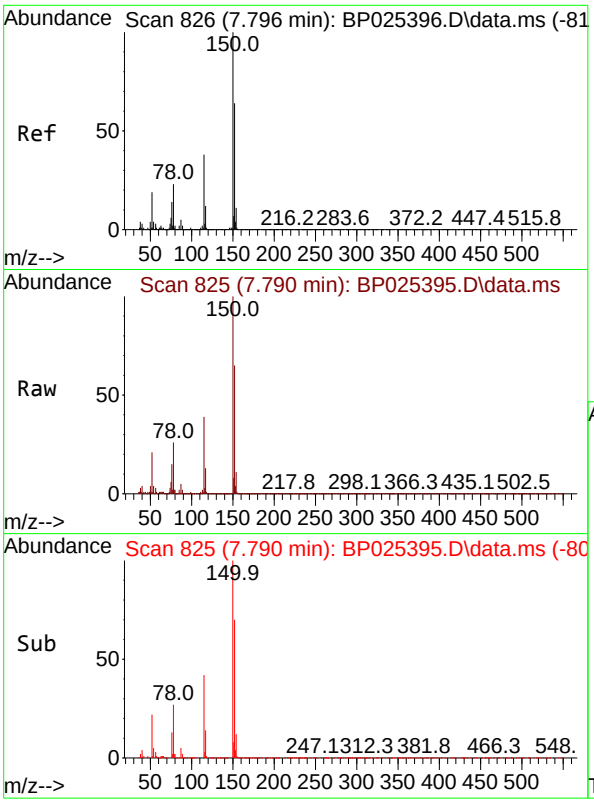
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081425\
Data File : BP025395.D
Acq On : 14 Aug 2025 14:38
Operator : CG/JU
Sample : SSTDICC020
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Quant Time: Aug 14 17:54:49 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 17:44:43 2025
Response via : Initial Calibration



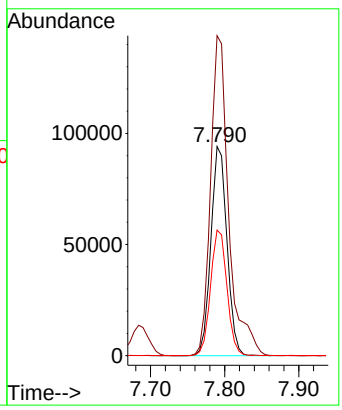


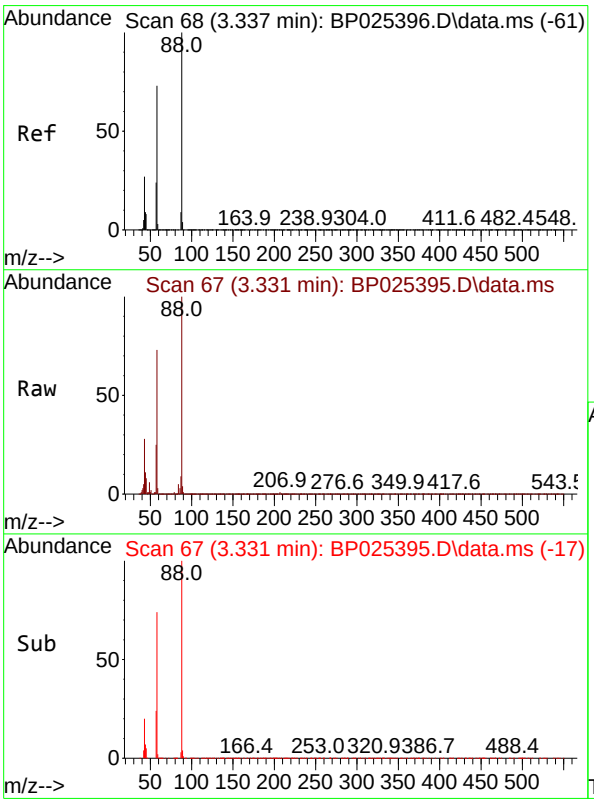
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.790 min Scan# 8
Delta R.T. -0.006 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:152 Resp: 141721

Ion	Ratio	Lower	Upper
152	100		
150	153.0	125.9	188.9
115	60.0	48.5	72.7

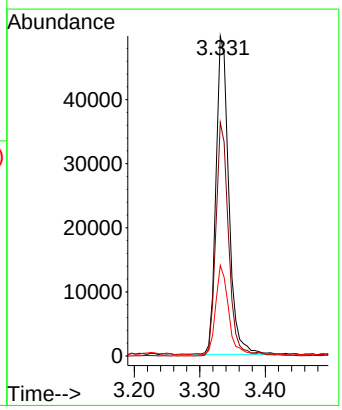


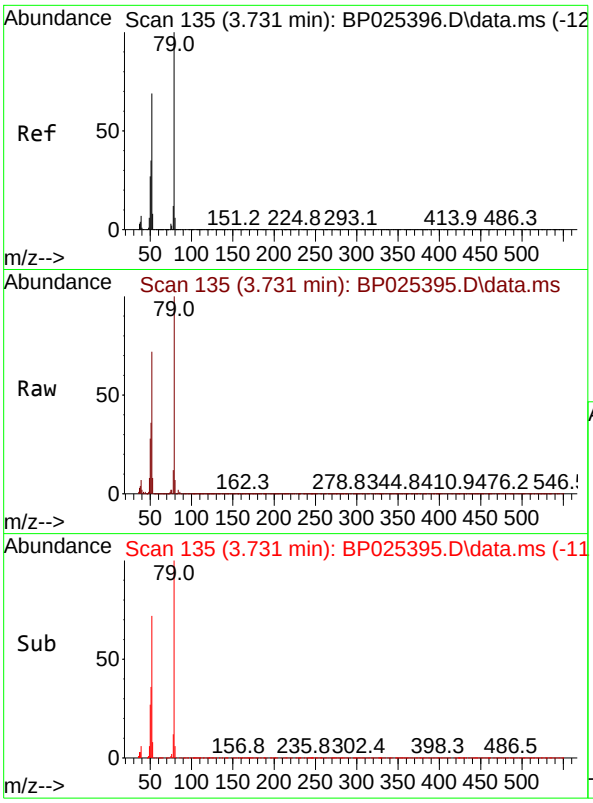


#2
1,4-Dioxane
Concen: 20.126 ng
RT: 3.331 min Scan# 67
Delta R.T. -0.006 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion: 88 Resp: 67276

Ion	Ratio	Lower	Upper
88	100		
58	73.2	59.2	88.8
43	27.9	21.7	32.5



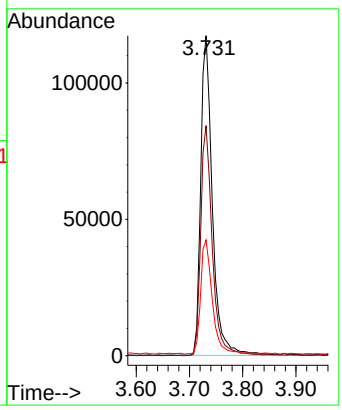


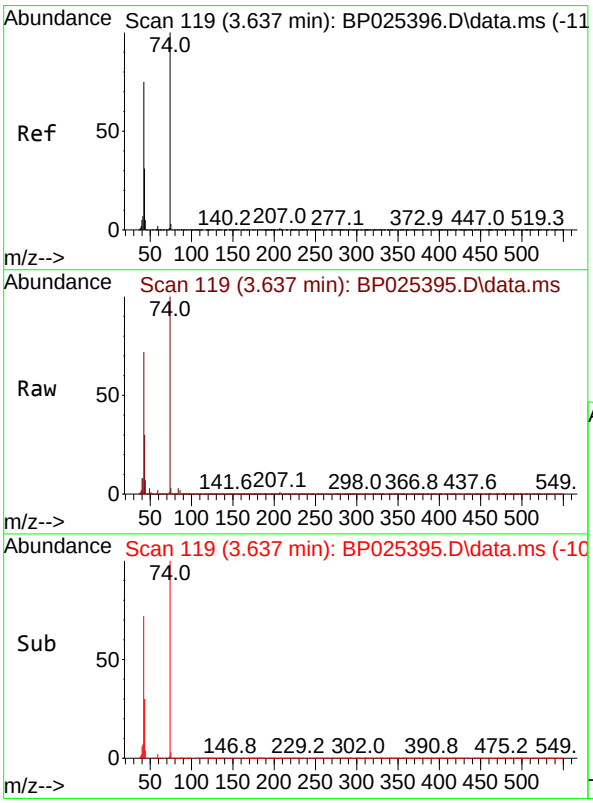
#3
Pyridine
Concen: 19.450 ng
RT: 3.731 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion: 79 Resp: 177948

Ion	Ratio	Lower	Upper
79	100		
52	71.9	55.5	83.3
51	36.1	28.3	42.5

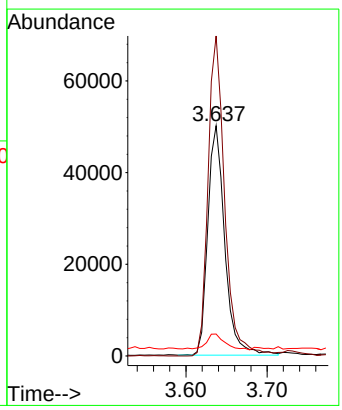


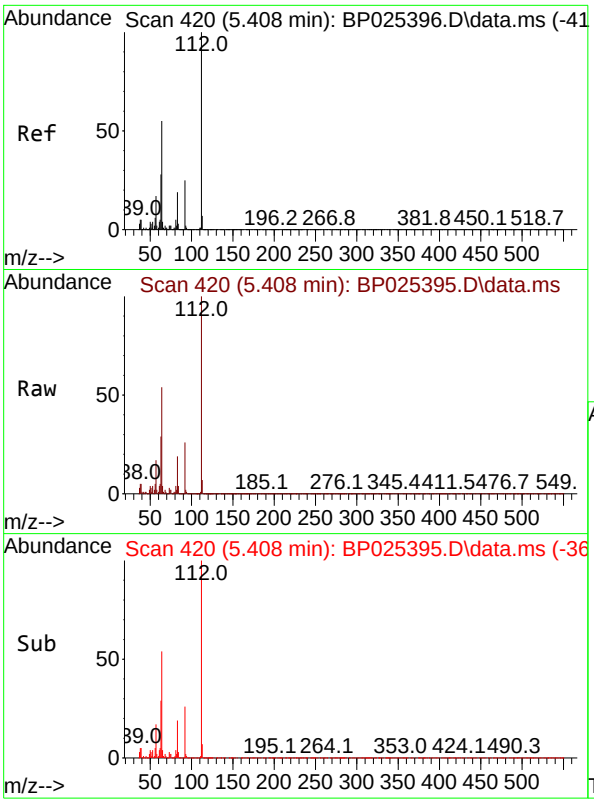


#4
n-Nitrosodimethylamine
Concen: 19.255 ng
RT: 3.637 min Scan# 119
Delta R.T. 0.000 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion: 42 Resp: 72627

Ion	Ratio	Lower	Upper
42	100		
74	138.9	107.0	160.4
44	9.5	6.2	9.4#



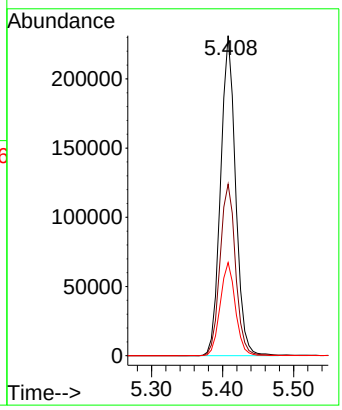


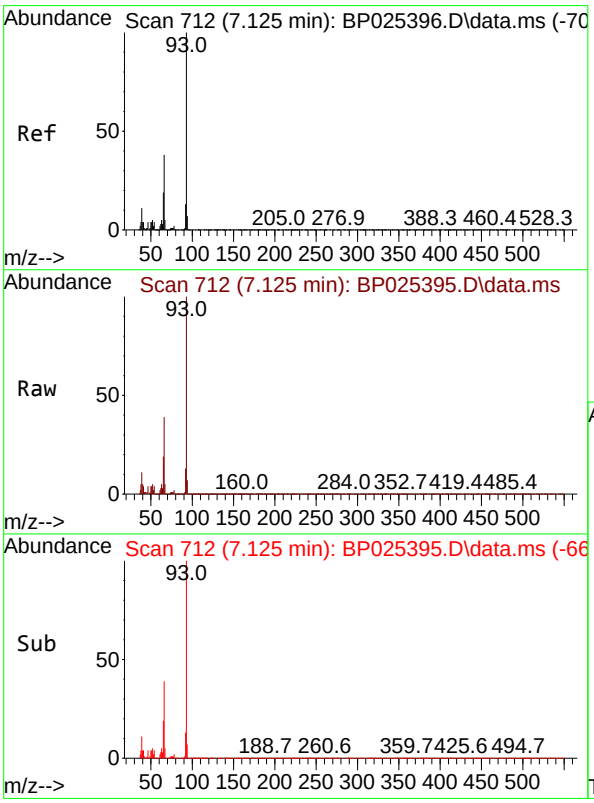
#5
2-Fluorophenol
Concen: 39.674 ng
RT: 5.408 min Scan# 4
Delta R.T. 0.000 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:112 Resp: 338568

Ion	Ratio	Lower	Upper
112	100		
64	53.6	43.8	65.8
63	29.1	22.7	34.1

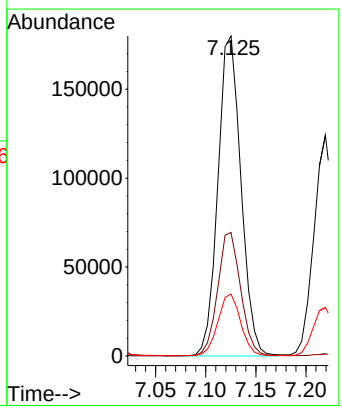


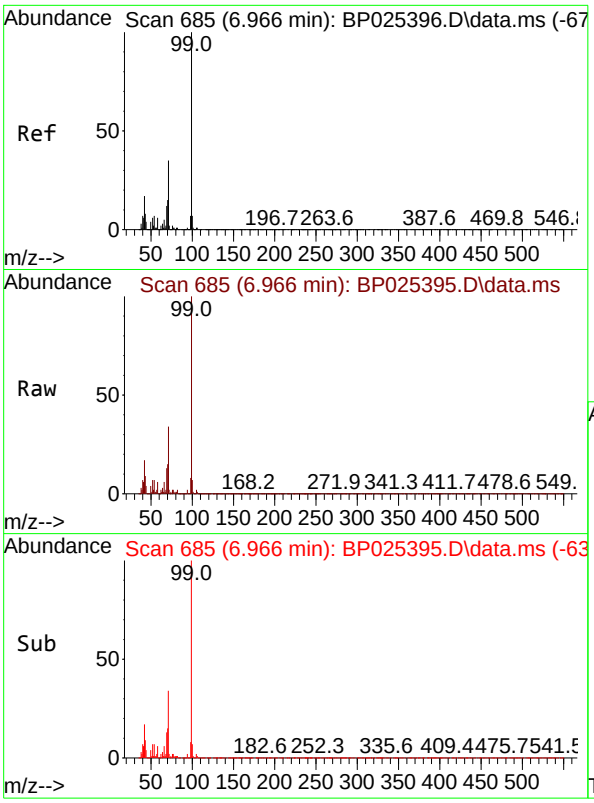


#6
Aniline
Concen: 19.513 ng
RT: 7.125 min Scan# 712
Delta R.T. 0.000 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion: 93 Resp: 287645

Ion	Ratio	Lower	Upper
93	100		
66	38.6	30.4	45.6
65	19.4	15.3	22.9



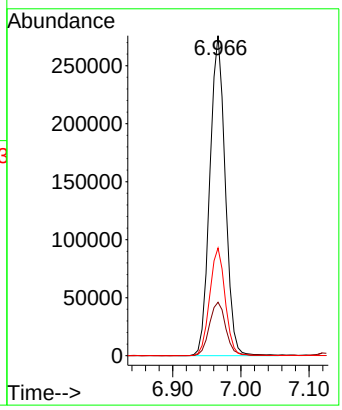


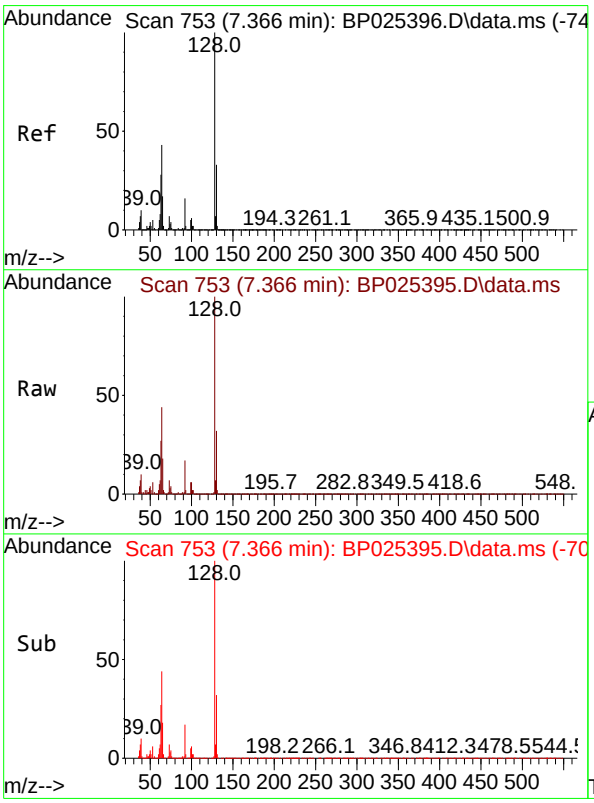
#7
Phenol-d6
Concen: 39.702 ng
RT: 6.966 min Scan# 6
Delta R.T. 0.000 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion: 99 Resp: 434388

Ion	Ratio	Lower	Upper
99	100		
42	16.7	13.7	20.5
71	33.7	28.2	42.4

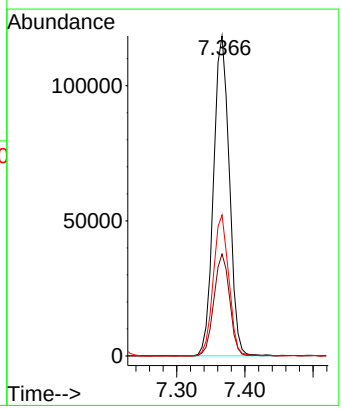


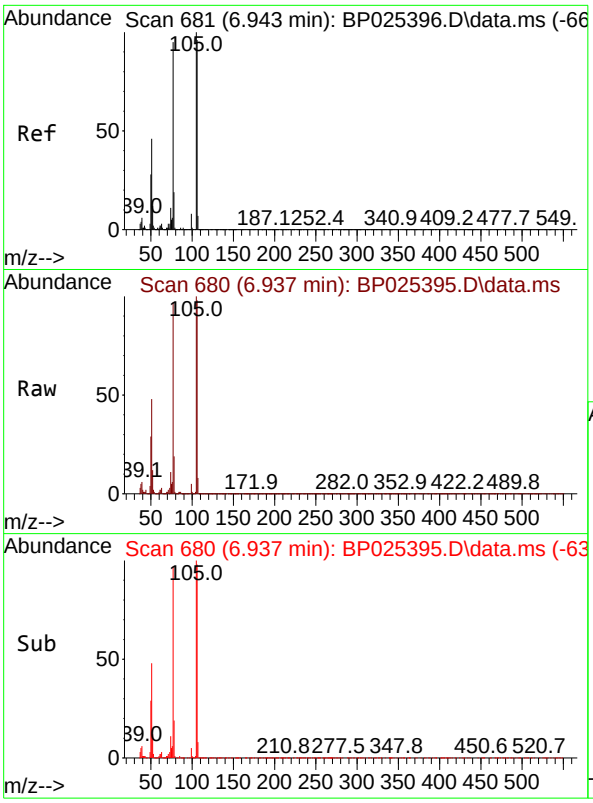


#8
2-Chlorophenol
Concen: 19.819 ng
RT: 7.366 min Scan# 753
Delta R.T. 0.000 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:128 Resp: 190858

Ion	Ratio	Lower	Upper
128	100		
130	31.9	12.6	52.6
64	44.0	23.4	63.4



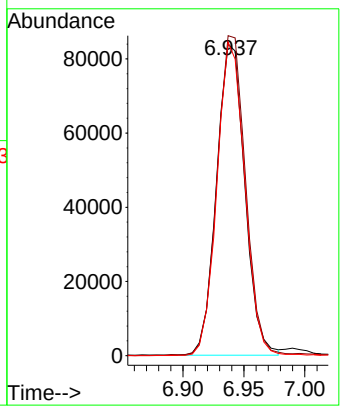


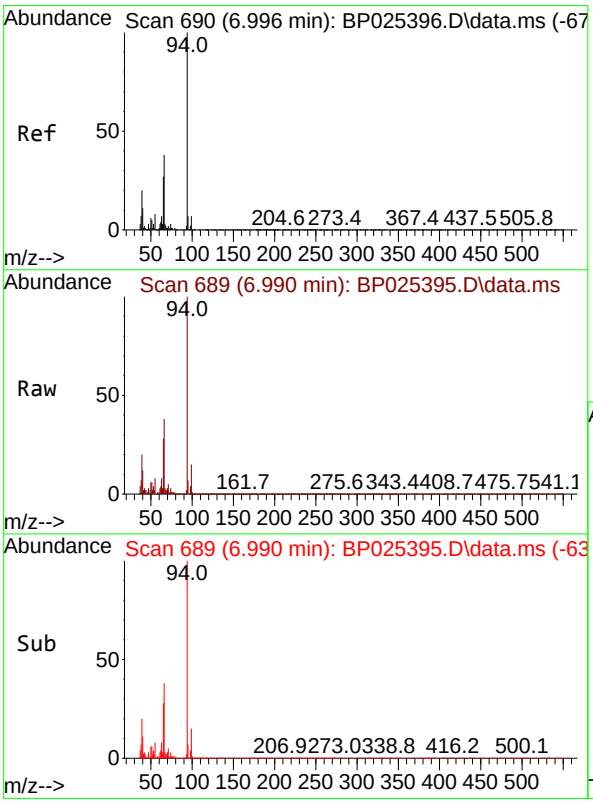
#9
Benzaldehyde
Concen: 17.672 ng
RT: 6.937 min Scan# 6
Delta R.T. -0.006 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion: 77 Resp: 135464

Ion	Ratio	Lower	Upper
77	100		
105	102.7	84.8	124.8
106	100.6	80.5	120.5

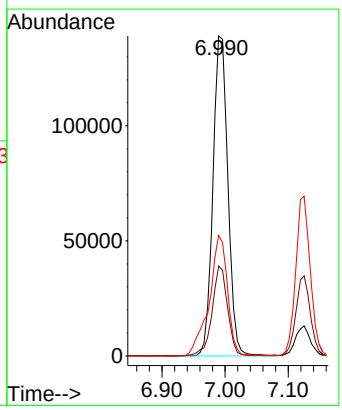


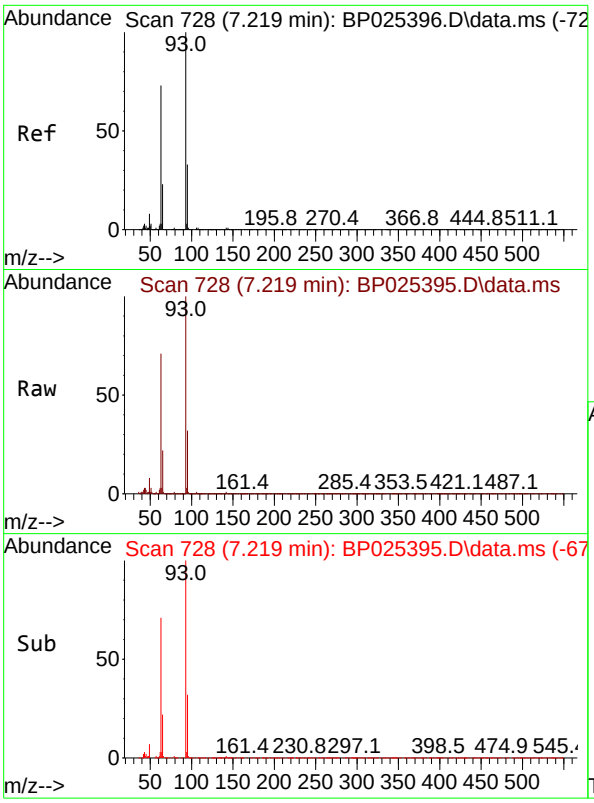


#10
Phenol
Concen: 19.910 ng
RT: 6.990 min Scan# 689
Delta R.T. -0.006 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion: 94 Resp: 228580

Ion	Ratio	Lower	Upper
94	100		
65	28.1	6.8	46.8
66	37.7	18.2	58.2



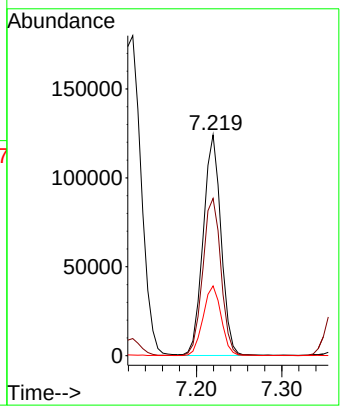


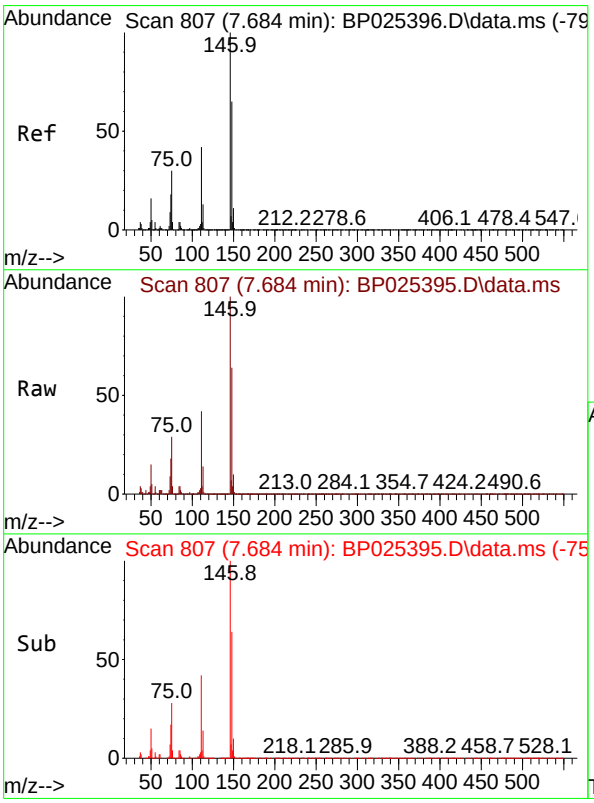
#11
bis(2-Chloroethyl)ether
Concen: 20.159 ng
RT: 7.219 min Scan# 7
Delta R.T. 0.000 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion: 93 Resp: 180390

Ion	Ratio	Lower	Upper
93	100		
63	71.2	52.6	92.6
95	31.6	12.7	52.7

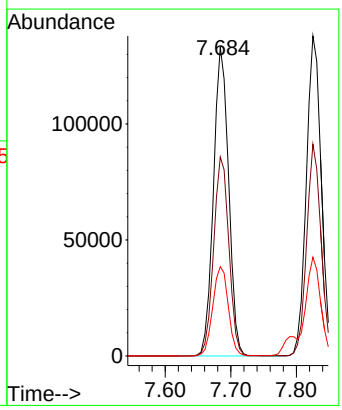


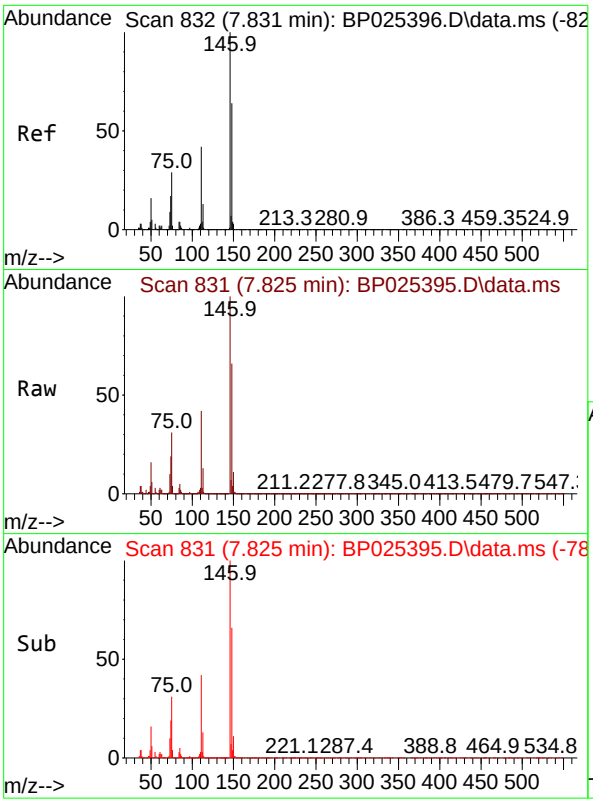


#12
1,3-Dichlorobenzene
Concen: 20.061 ng
RT: 7.684 min Scan# 807
Delta R.T. 0.000 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:146 Resp: 213023

Ion	Ratio	Lower	Upper
146	100		
148	64.4	51.9	77.9
75	28.9	23.7	35.5



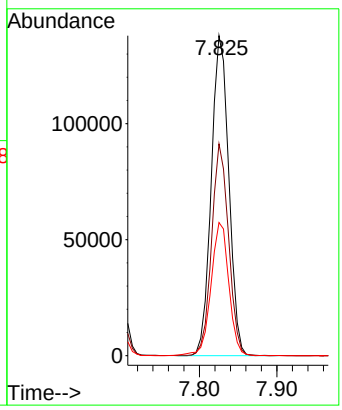


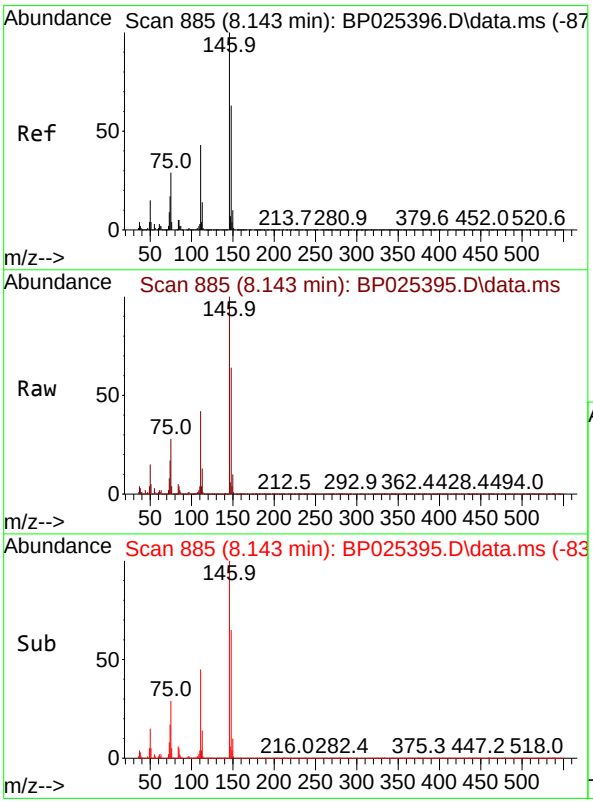
#13
1,4-Dichlorobenzene
Concen: 19.938 ng
RT: 7.825 min Scan# 8
Delta R.T. -0.006 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:146 Resp: 216400

Ion	Ratio	Lower	Upper
146	100		
148	66.2	51.6	77.4
111	41.6	33.4	50.0

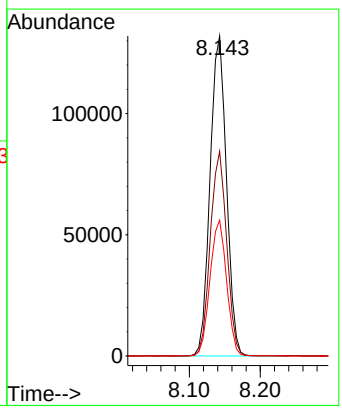


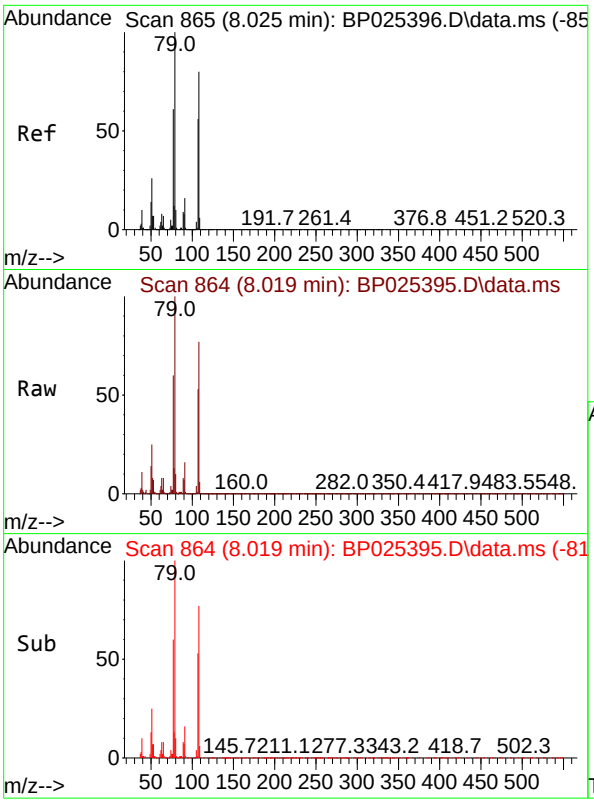


#14
1,2-Dichlorobenzene
Concen: 20.106 ng
RT: 8.143 min Scan# 885
Delta R.T. 0.000 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:146 Resp: 211243

Ion	Ratio	Lower	Upper
146	100		
148	64.0	50.4	75.6
111	42.4	34.5	51.7



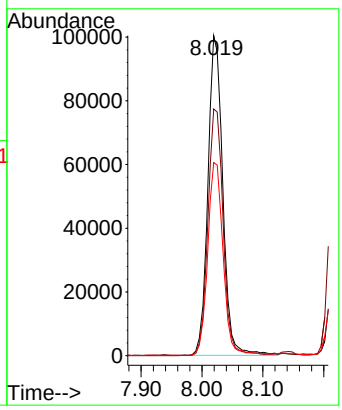


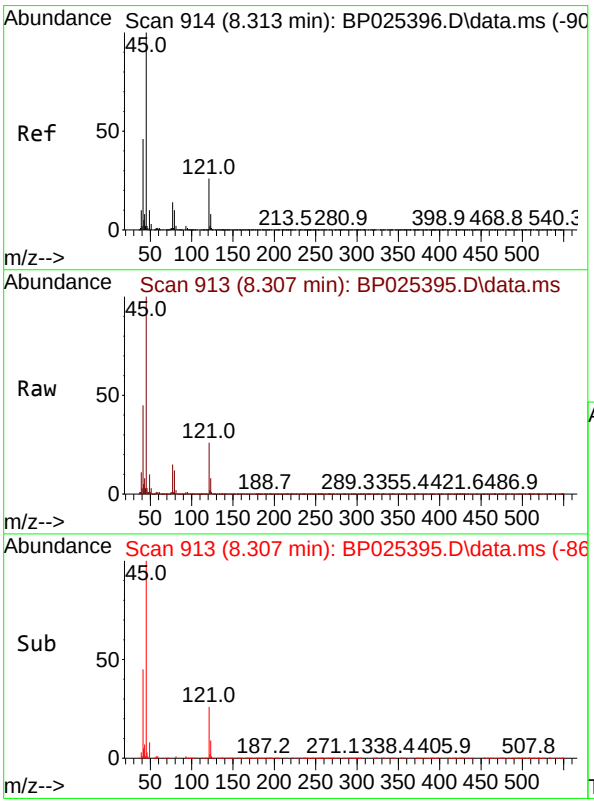
#15
Benzyl Alcohol
Concen: 19.640 ng
RT: 8.019 min Scan# 8
Delta R.T. -0.006 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion: 79 Resp: 170736

Ion	Ratio	Lower	Upper
79	100		
108	77.1	63.8	95.6
77	60.3	49.0	73.4

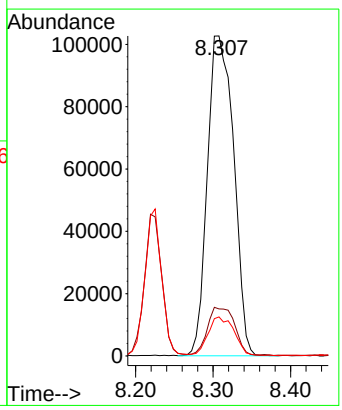


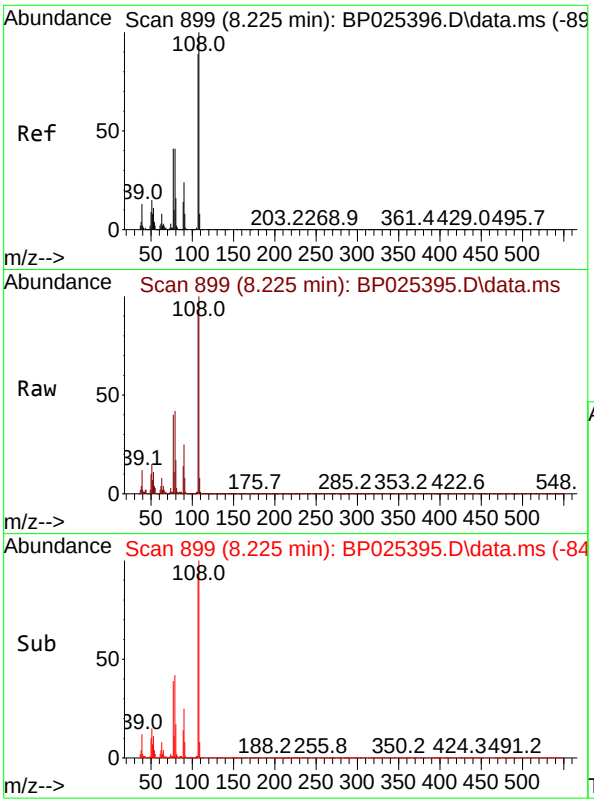


#16
2,2'-oxybis(1-Chloropropane)
Concen: 20.240 ng
RT: 8.307 min Scan# 913
Delta R.T. -0.006 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion: 45 Resp: 242616

Ion	Ratio	Lower	Upper
45	100		
77	14.7	0.0	35.3
79	12.2	0.0	31.8



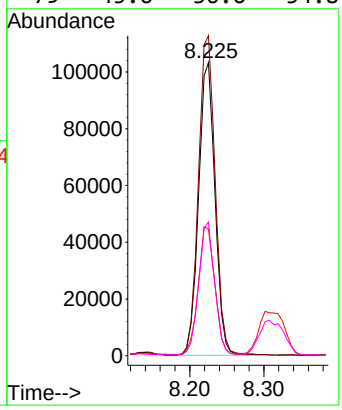


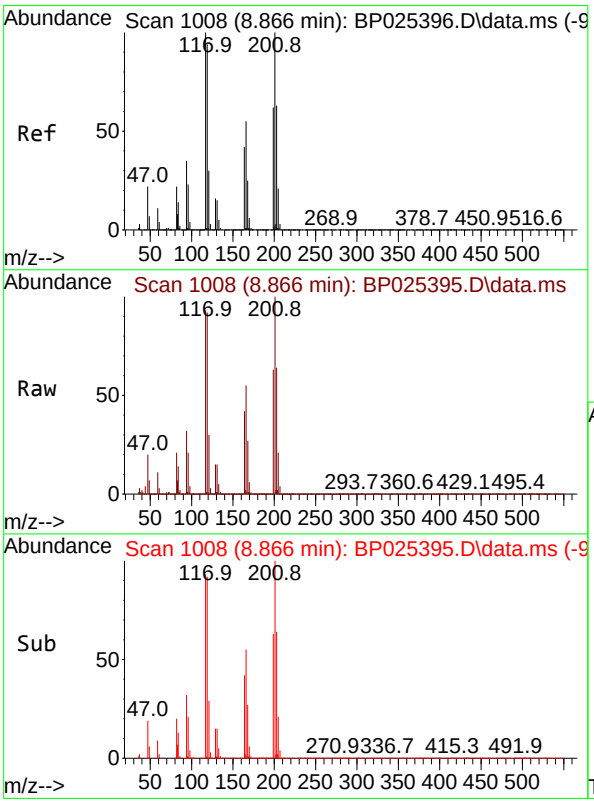
#17
2-Methylphenol
Concen: 19.956 ng
RT: 8.225 min Scan# 8
Delta R.T. 0.000 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:107 Resp: 159119

Ion	Ratio	Lower	Upper
107	100		
108	109.2	89.4	134.0
77	43.2	36.3	54.5
79	45.6	36.6	54.8

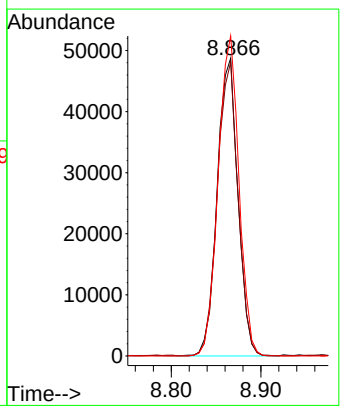


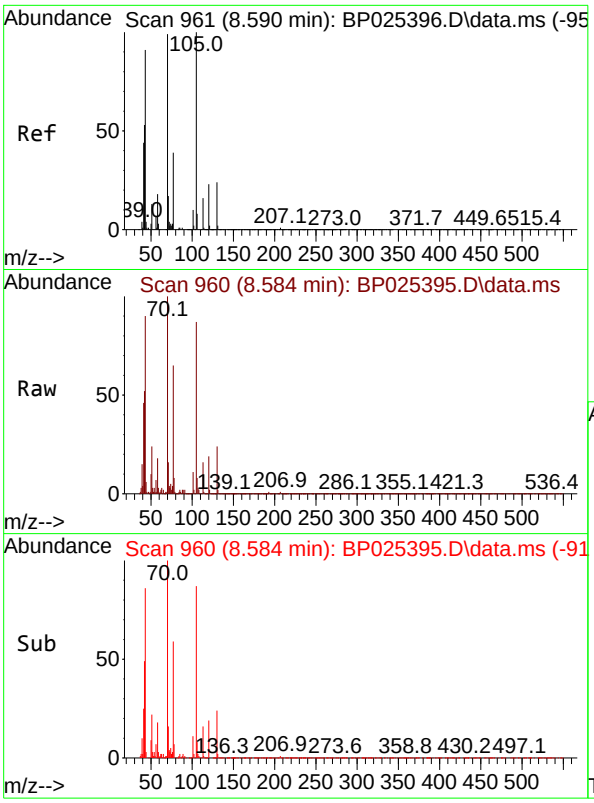


#18
Hexachloroethane
Concen: 19.597 ng
RT: 8.866 min Scan# 1008
Delta R.T. 0.000 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:117 Resp: 78205

Ion	Ratio	Lower	Upper
117	100		
119	98.8	75.1	112.7
201	107.5	80.1	120.1



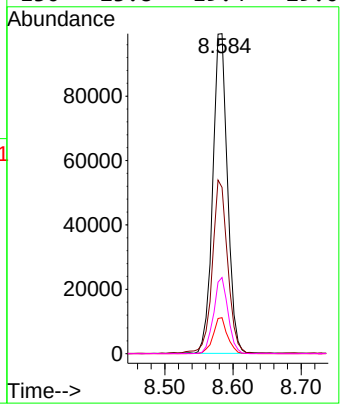


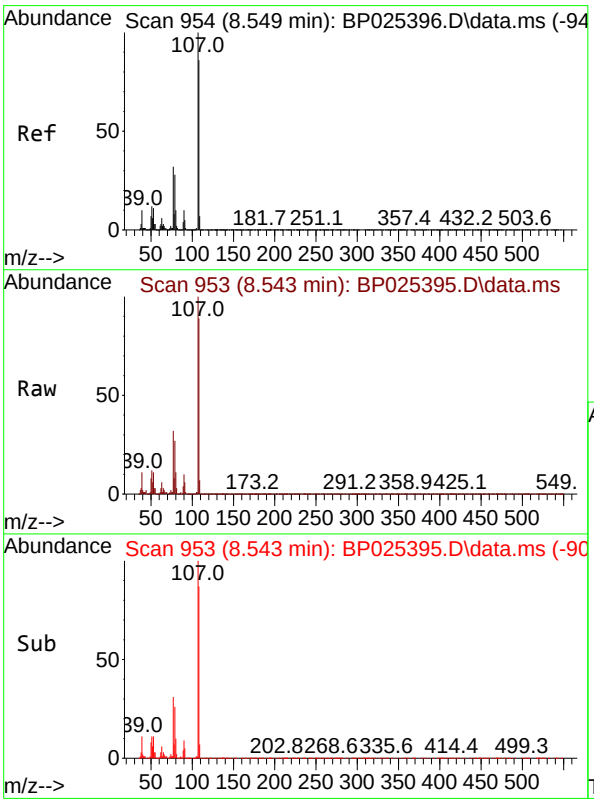
#19
n-Nitroso-di-n-propylamine
Concen: 20.633 ng
RT: 8.584 min Scan# 9
Delta R.T. -0.006 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion: 70 Resp: 149715

Ion	Ratio	Lower	Upper
70	100		
42	52.0	43.8	65.6
101	11.3	8.5	12.7
130	23.8	19.4	29.0

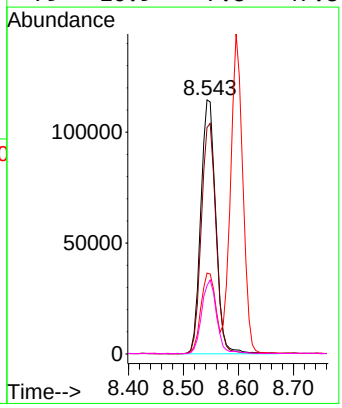


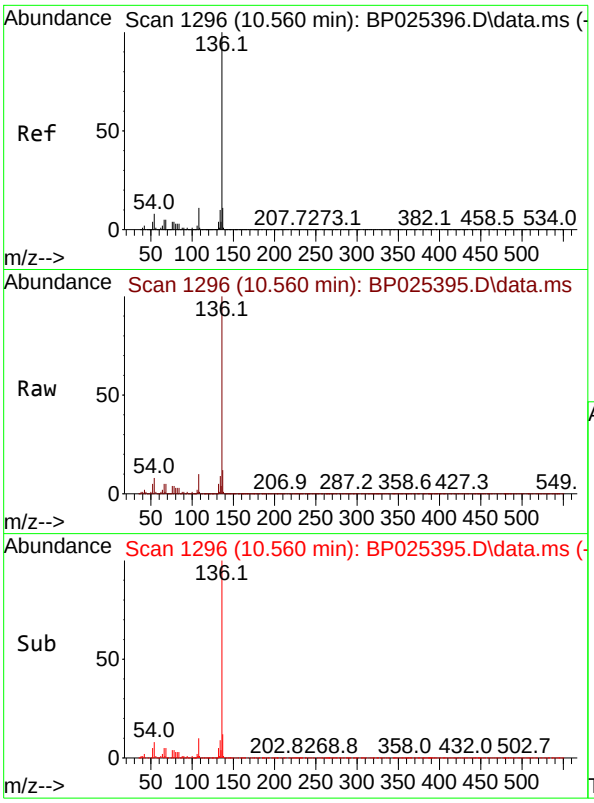


#20
3+4-Methylphenols
Concen: 19.655 ng
RT: 8.543 min Scan# 953
Delta R.T. -0.006 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:107 Resp: 217240

Ion	Ratio	Lower	Upper
107	100		
108	89.1	66.3	106.3
77	31.8	12.3	52.3
79	26.9	7.8	47.8



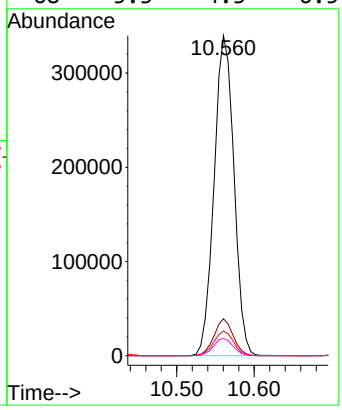


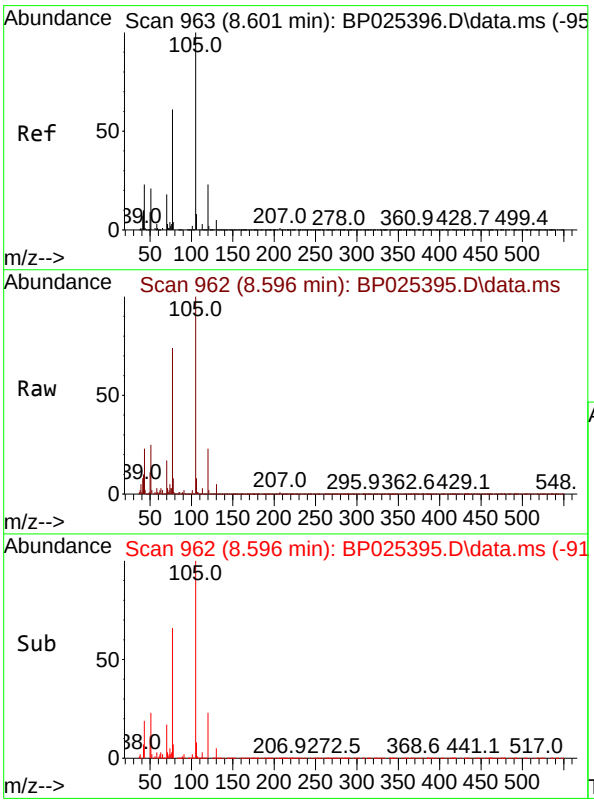
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.560 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:136 Resp: 603797

Ion	Ratio	Lower	Upper
136	100		
137	11.6	9.2	13.8
54	7.7	6.0	9.0
68	5.3	4.3	6.5

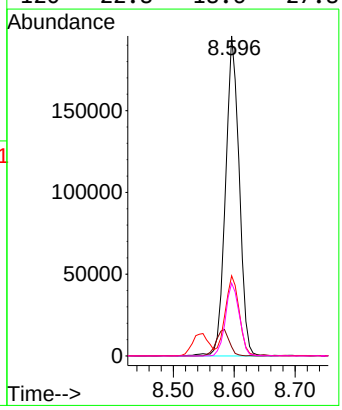


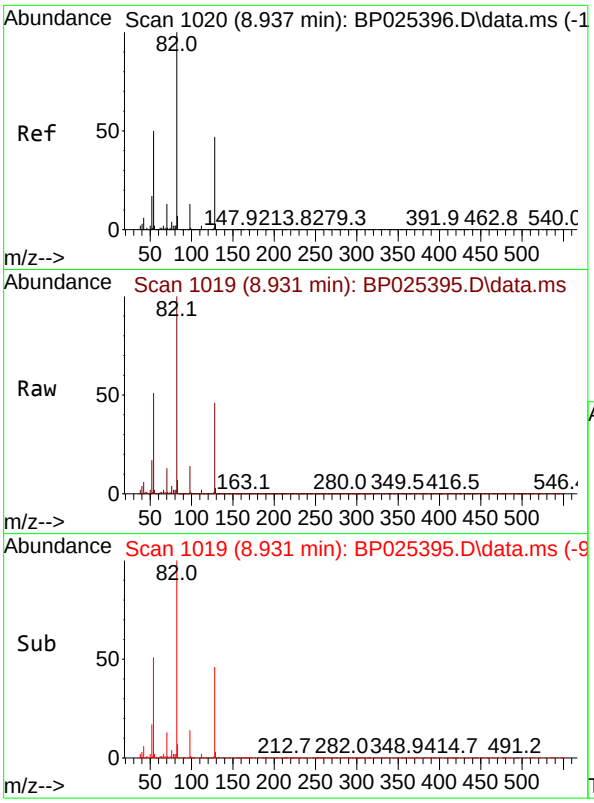


#22
Acetophenone
Concen: 20.196 ng
RT: 8.596 min Scan# 962
Delta R.T. -0.006 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:105 Resp: 305812

Ion	Ratio	Lower	Upper
105	100		
71	2.8	2.6	4.0
51	25.0	20.6	30.8
120	22.8	18.6	27.8



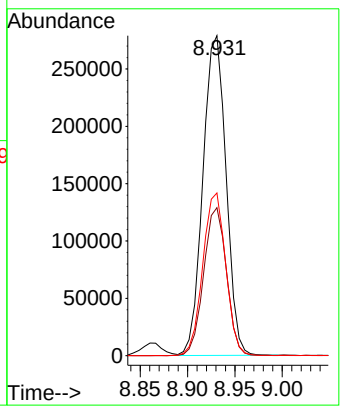


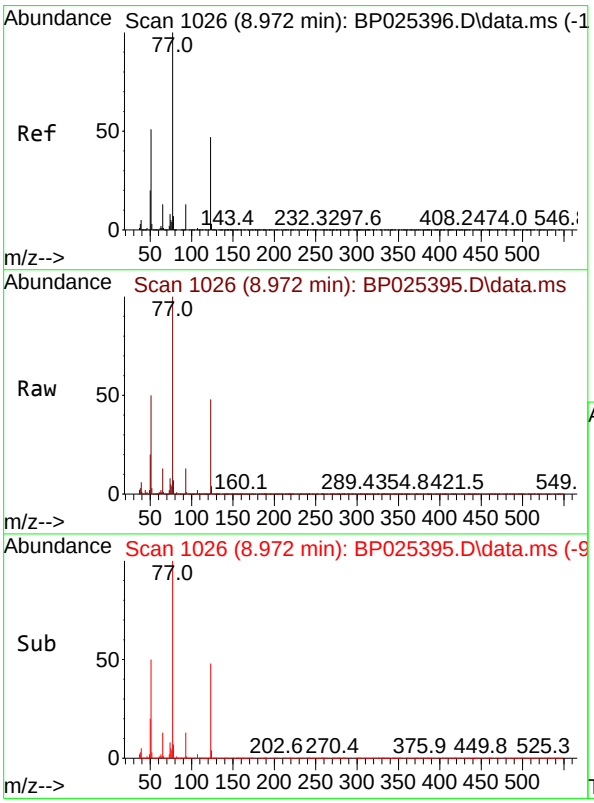
#23
Nitrobenzene-d5
Concen: 39.706 ng
RT: 8.931 min Scan# 1(
Delta R.T. -0.006 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion: 82 Resp: 473937

Ion	Ratio	Lower	Upper
82	100		
128	46.3	37.7	56.5
54	50.8	39.8	59.6

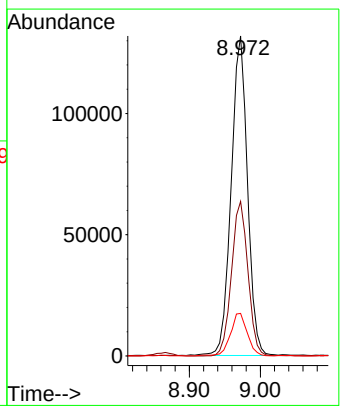


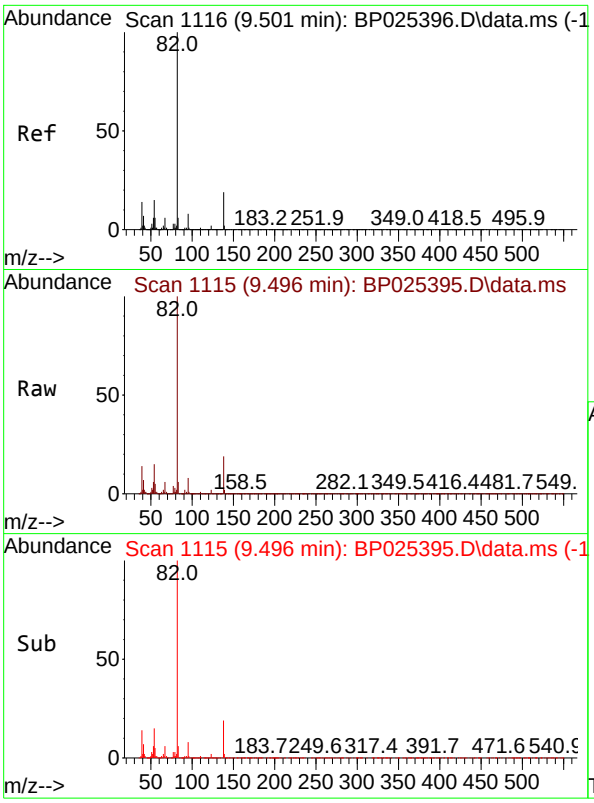


#24
Nitrobenzene
Concen: 19.708 ng
RT: 8.972 min Scan# 1026
Delta R.T. 0.000 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion: 77 Resp: 210234

Ion	Ratio	Lower	Upper
77	100		
123	48.3	38.6	58.0
65	13.3	10.6	15.8



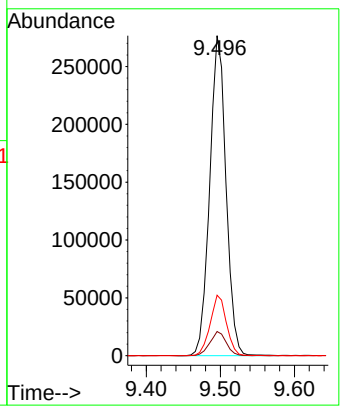


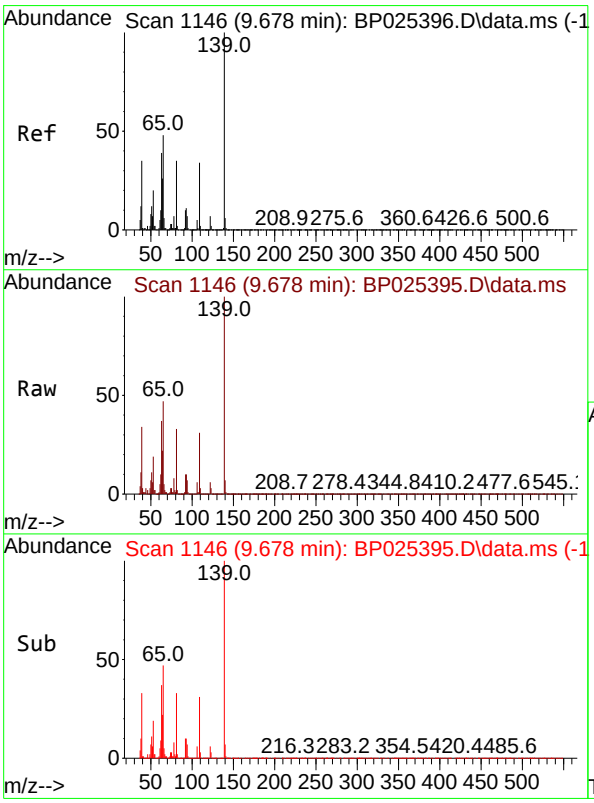
#25
Isophorone
Concen: 19.995 ng
RT: 9.496 min Scan# 11
Delta R.T. -0.006 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion: 82 Resp: 422370

Ion	Ratio	Lower	Upper
82	100		
95	7.6	6.4	9.6
138	18.9	15.4	23.0

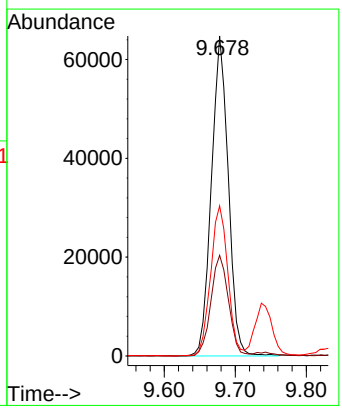


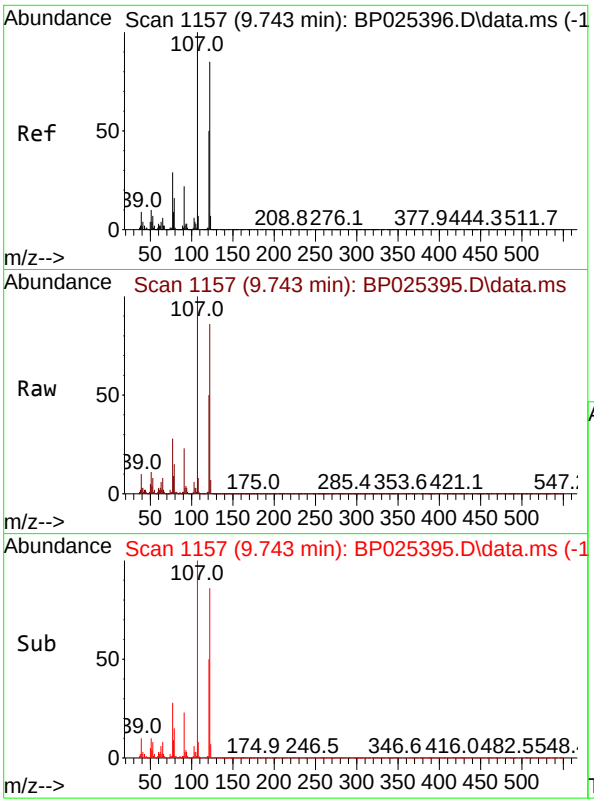


#26
2-Nitrophenol
Concen: 19.509 ng
RT: 9.678 min Scan# 1146
Delta R.T. 0.000 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:139 Resp: 106805

Ion	Ratio	Lower	Upper
139	100		
109	31.5	26.9	40.3
65	46.9	38.3	57.5



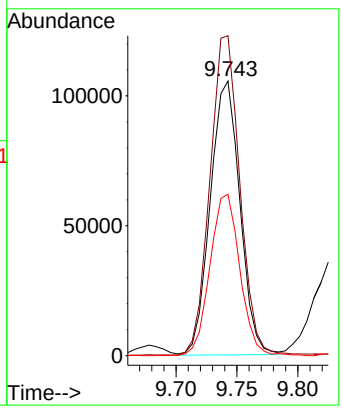


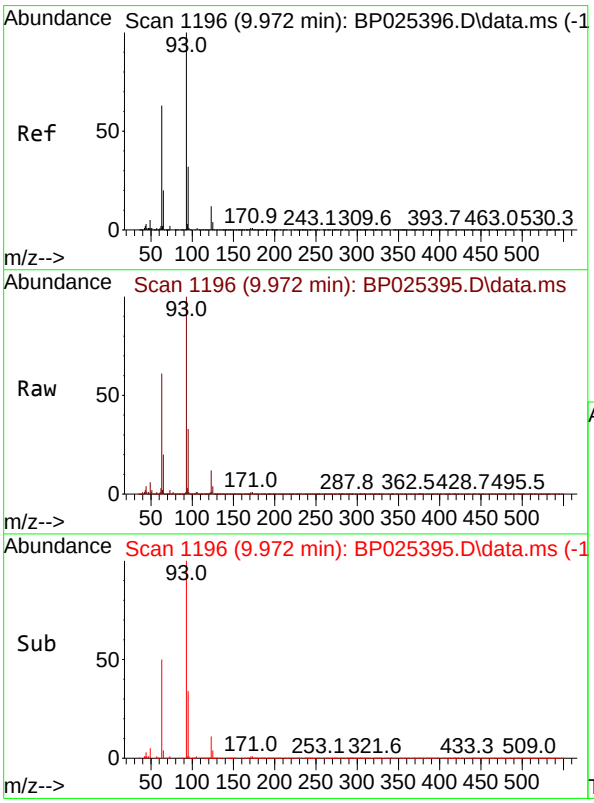
#27
2,4-Dimethylphenol
Concen: 18.963 ng
RT: 9.743 min Scan# 11
Delta R.T. 0.000 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:122 Resp: 178534

Ion	Ratio	Lower	Upper
122	100		
107	116.5	93.7	140.5
121	58.8	46.6	69.8

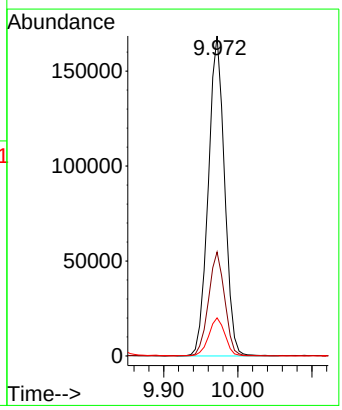


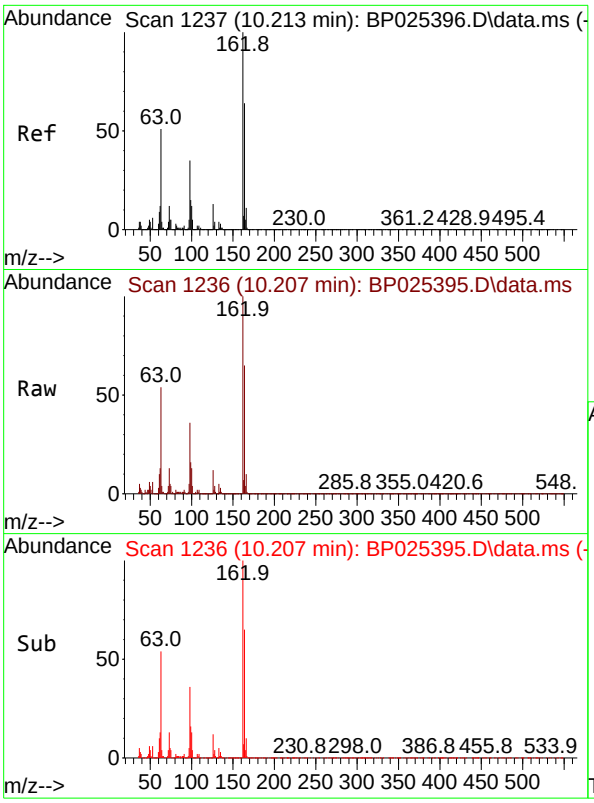


#28
bis(2-Chloroethoxy)methane
Concen: 20.100 ng
RT: 9.972 min Scan# 1196
Delta R.T. 0.000 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion: 93 Resp: 256656

Ion	Ratio	Lower	Upper
93	100		
95	32.5	25.4	38.0
123	11.9	9.4	14.0



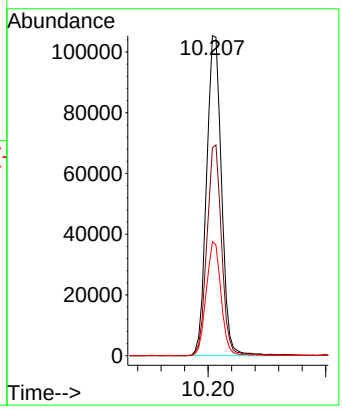


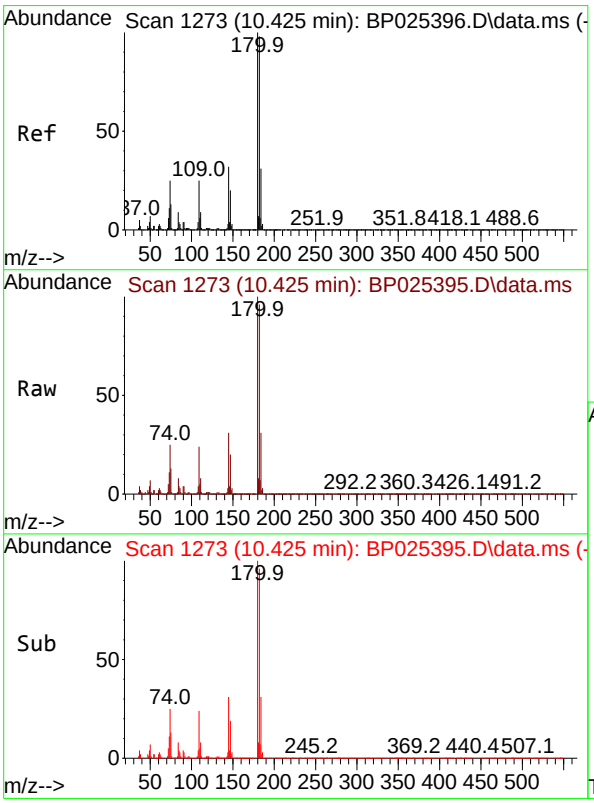
#29
2,4-Dichlorophenol
Concen: 19.896 ng
RT: 10.207 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:162 Resp: 186076

Ion	Ratio	Lower	Upper
162	100		
164	64.9	44.4	84.4
98	35.7	14.9	54.9

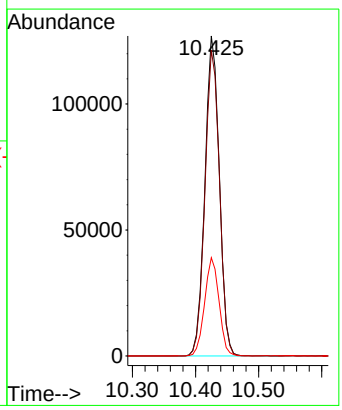


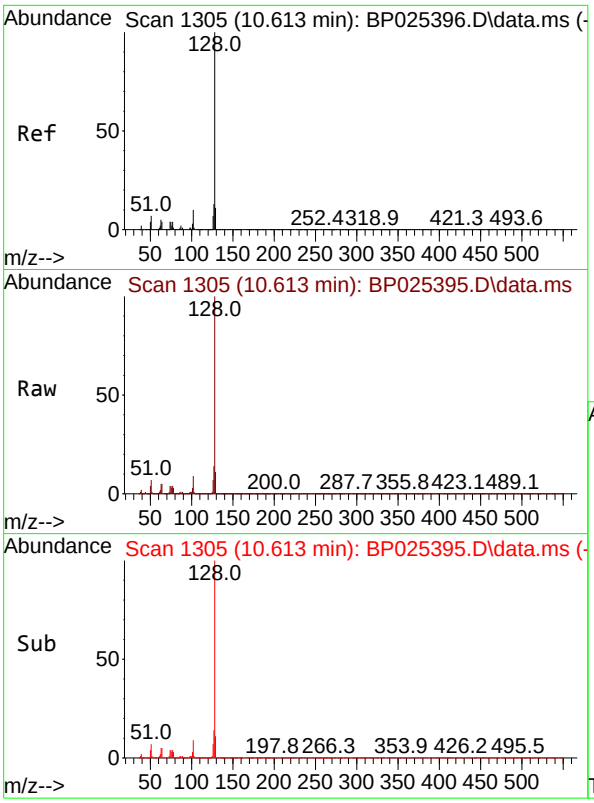


#30
1,2,4-Trichlorobenzene
Concen: 19.702 ng
RT: 10.425 min Scan# 1273
Delta R.T. 0.000 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:180 Resp: 201995

Ion	Ratio	Lower	Upper
180	100		
182	95.6	78.0	117.0
145	30.7	25.9	38.9



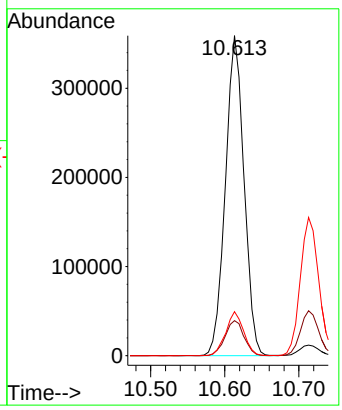


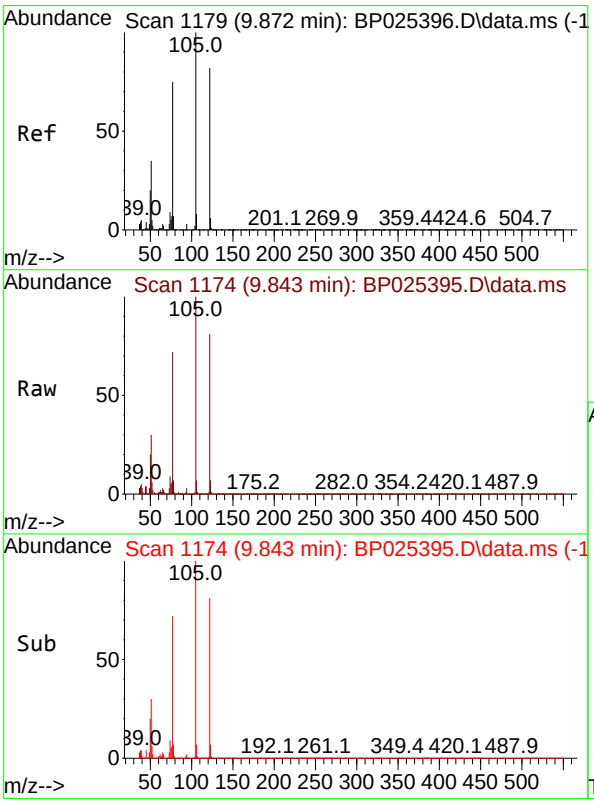
#31
Naphthalene
Concen: 19.944 ng
RT: 10.613 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:128 Resp: 625899

Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.6	13.0
127	13.7	10.7	16.1

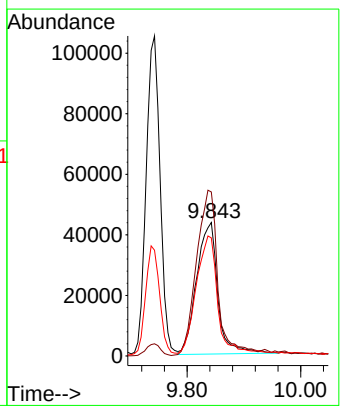


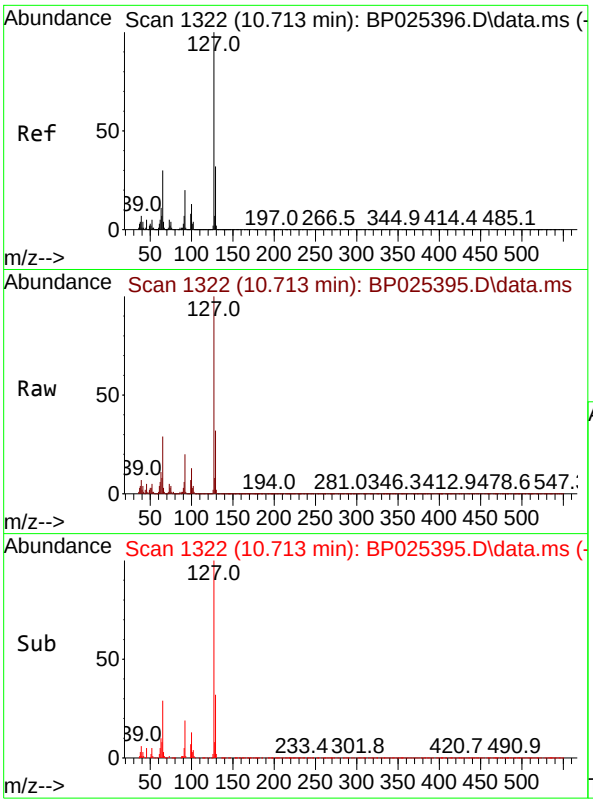


#32
Benzoic acid
Concen: 16.287 ng
RT: 9.843 min Scan# 1174
Delta R.T. -0.029 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:122 Resp: 112932

Ion	Ratio	Lower	Upper
122	100		
105	122.9	100.6	140.6
77	88.5	71.5	111.5



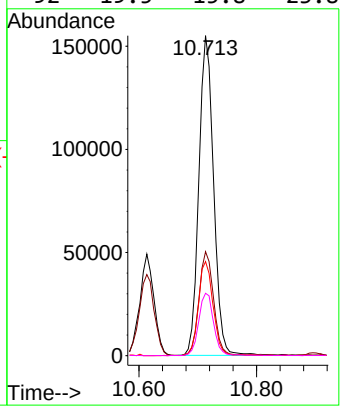


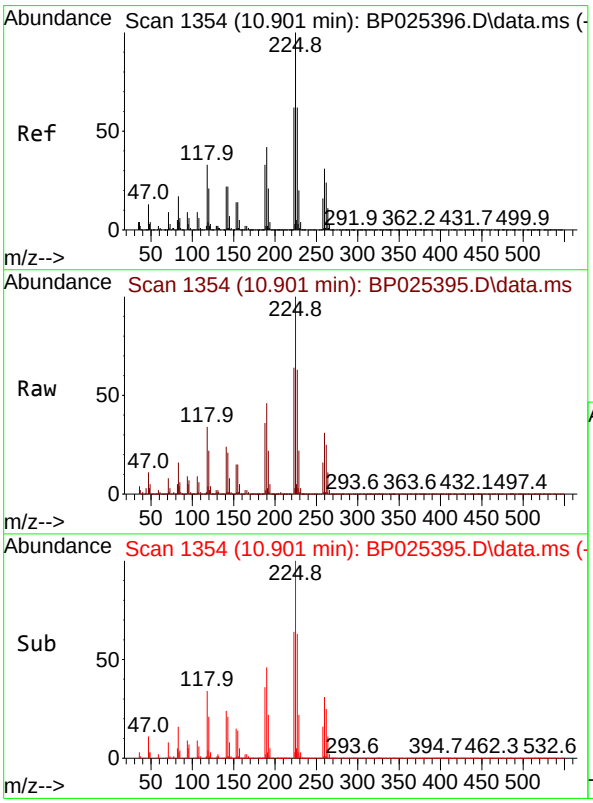
#33
4-Chloroaniline
Concen: 19.489 ng
RT: 10.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:127 Resp: 270158

Ion	Ratio	Lower	Upper
127	100		
129	32.5	25.4	38.2
65	29.4	23.8	35.6
92	19.5	15.8	23.8

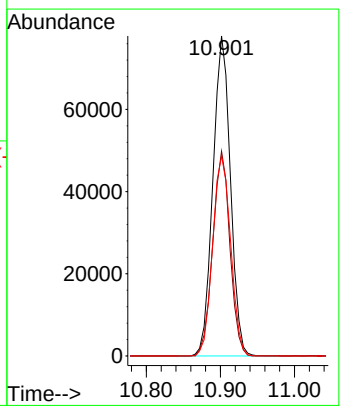


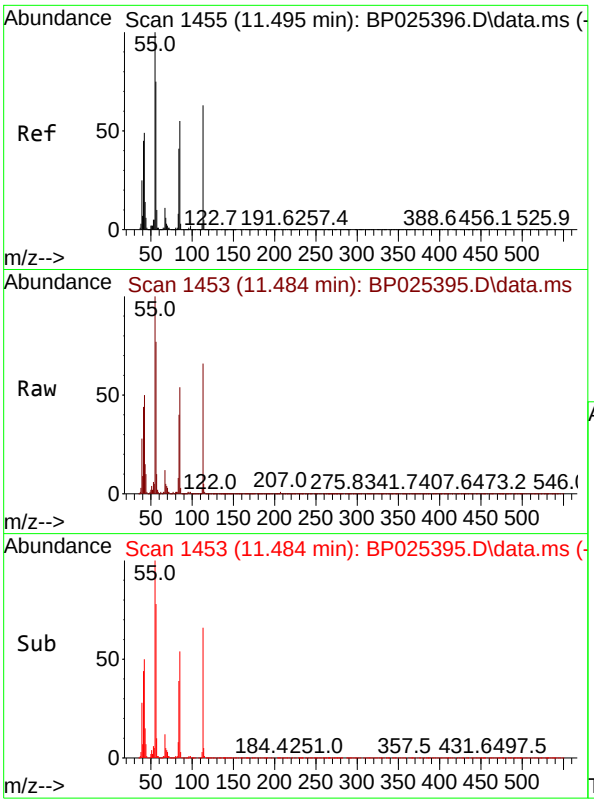


#34
Hexachlorobutadiene
Concen: 19.983 ng
RT: 10.901 min Scan# 1354
Delta R.T. 0.000 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:225 Resp: 127593

Ion	Ratio	Lower	Upper
225	100		
223	64.0	50.0	75.0
227	62.5	49.7	74.5



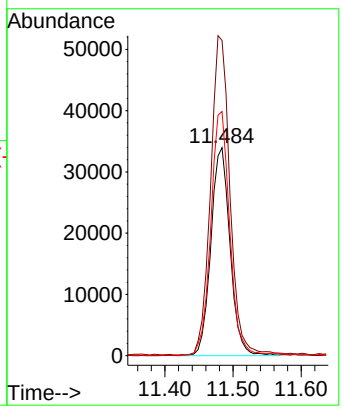


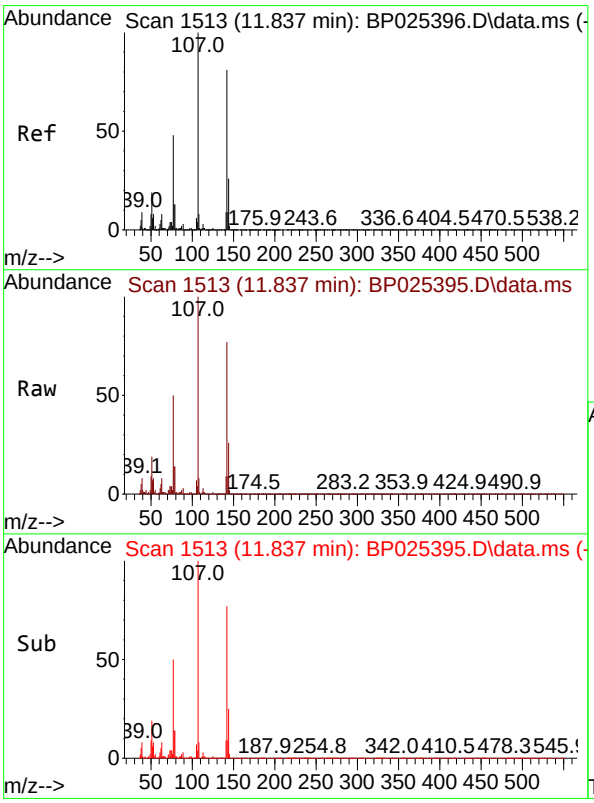
#35
Caprolactam
Concen: 19.294 ng
RT: 11.484 min Scan# 14
Delta R.T. -0.012 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:113 Resp: 66168

Ion	Ratio	Lower	Upper
113	100		
55	151.5	140.0	180.0
56	117.4	100.0	140.0

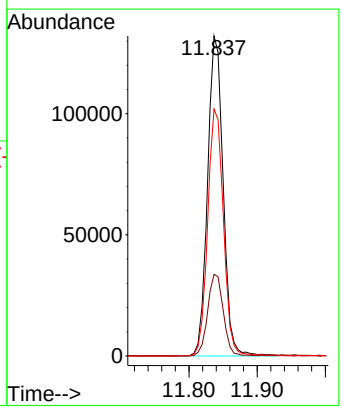


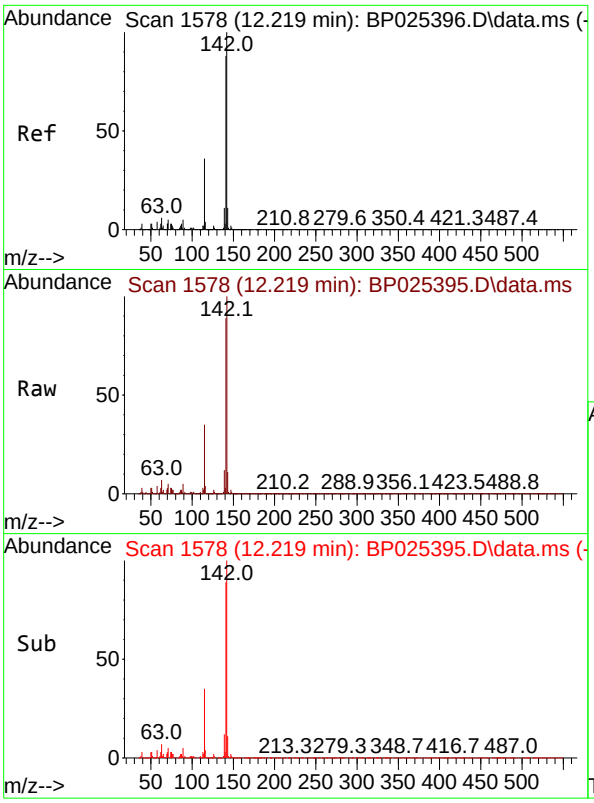


#36
4-Chloro-3-methylphenol
Concen: 19.551 ng
RT: 11.837 min Scan# 1513
Delta R.T. 0.000 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:107 Resp: 209817

Ion	Ratio	Lower	Upper
107	100		
144	25.5	21.0	31.4
142	77.1	64.6	97.0



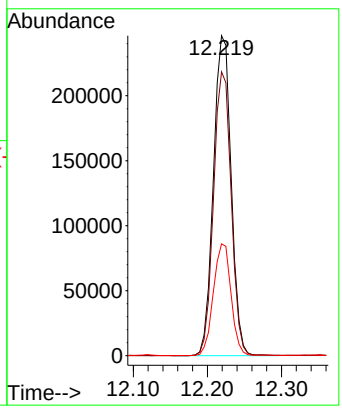


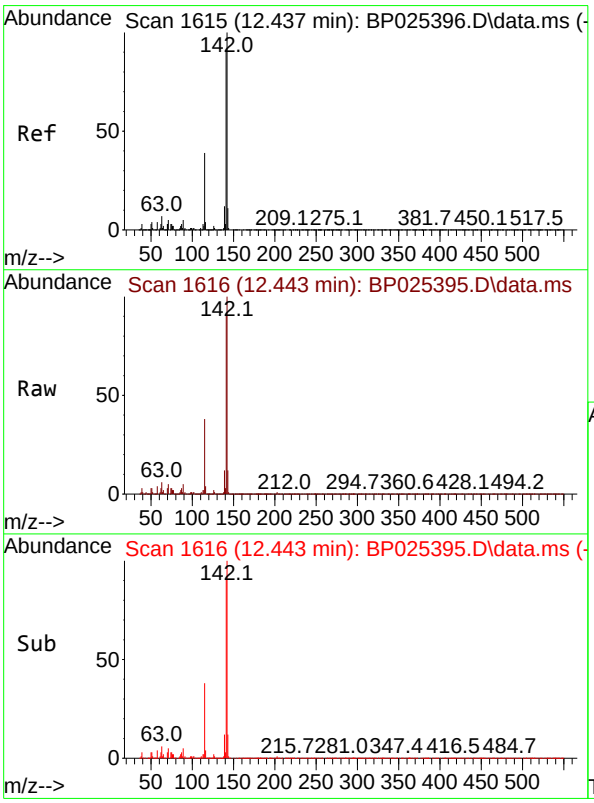
#37
2-Methylnaphthalene
Concen: 20.057 ng
RT: 12.219 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:142 Resp: 409613

Ion	Ratio	Lower	Upper
142	100		
141	88.7	70.3	105.5
115	35.0	28.9	43.3

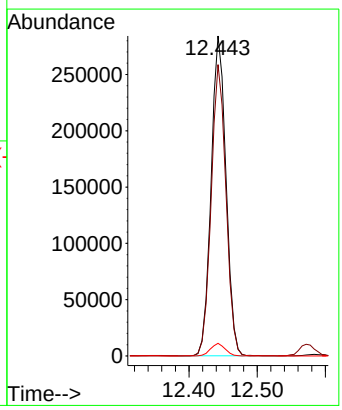


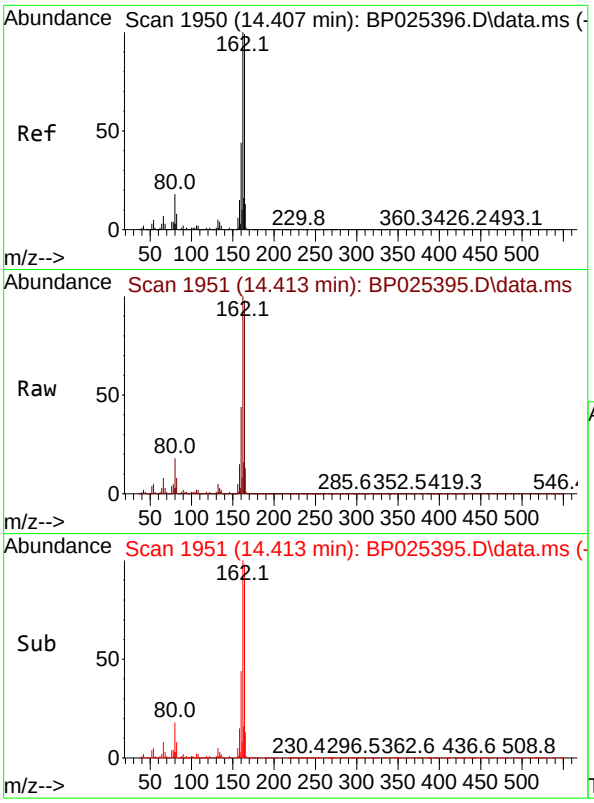


#38
1-Methylnaphthalene
Concen: 19.829 ng
RT: 12.443 min Scan# 1616
Delta R.T. 0.006 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:142 Resp: 430666

Ion	Ratio	Lower	Upper
142	100		
141	91.1	73.1	109.7
116	3.9	3.2	4.8



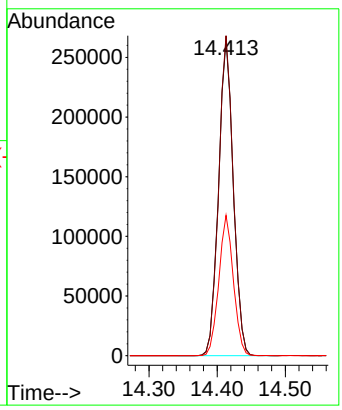


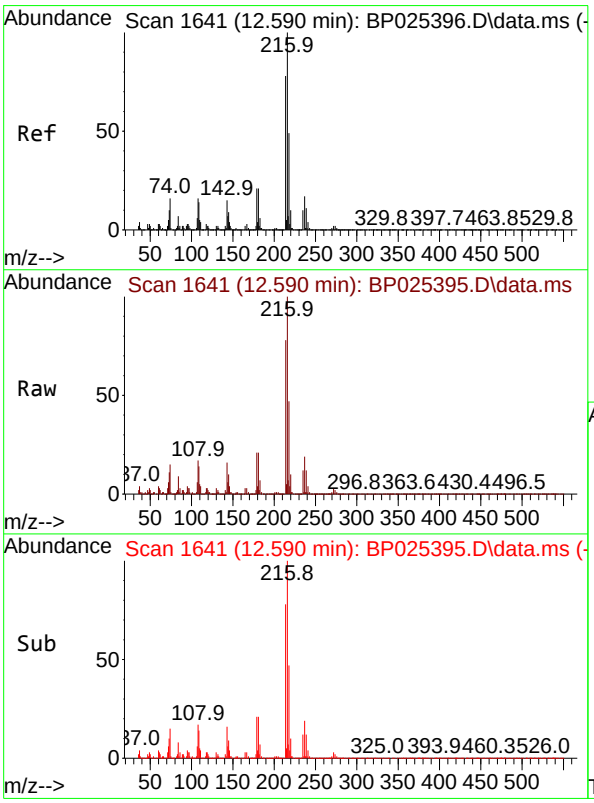
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.413 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:164 Resp: 399034

Ion	Ratio	Lower	Upper
164	100		
162	101.6	81.0	121.6
160	44.6	35.4	53.2

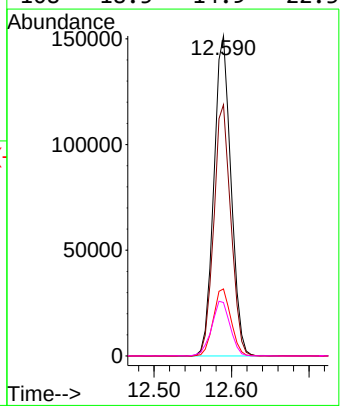


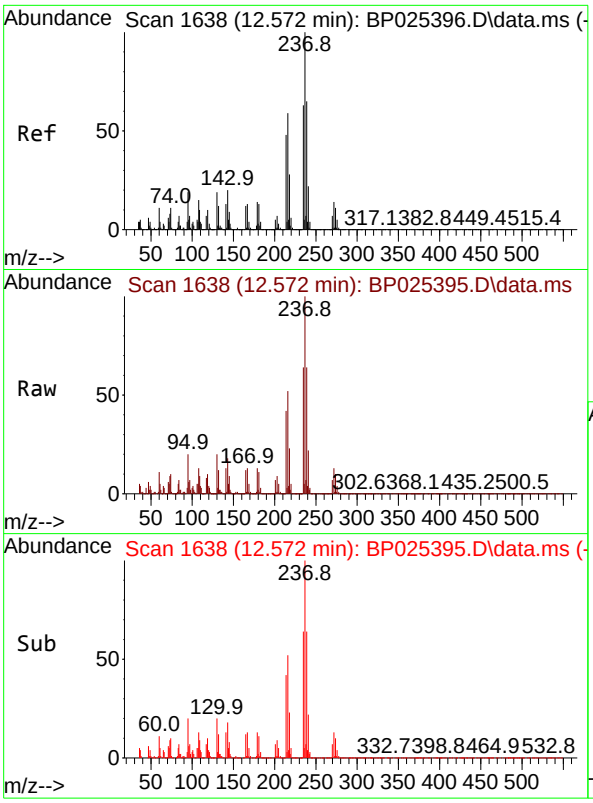


#40
1,2,4,5-Tetrachlorobenzene
Concen: 20.263 ng
RT: 12.590 min Scan# 1641
Delta R.T. 0.000 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:216 Resp: 233523

Ion	Ratio	Lower	Upper
216	100		
214	78.0	63.0	94.4
179	21.6	17.1	25.7
108	18.5	14.9	22.3



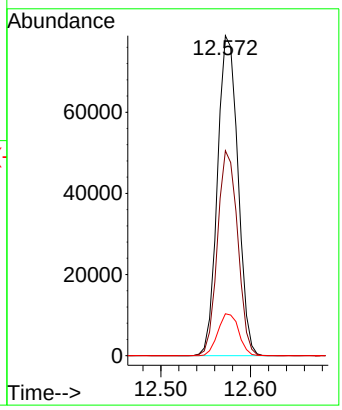


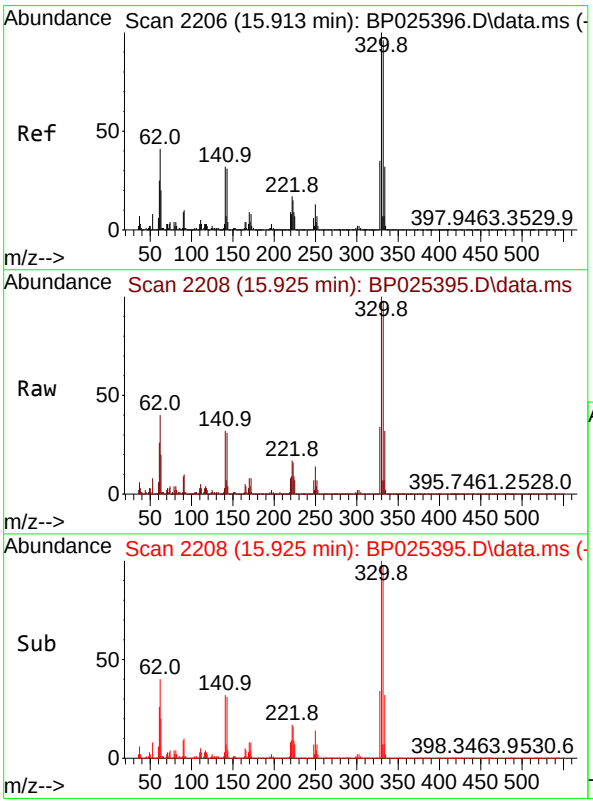
#41
Hexachlorocyclopentadiene
Concen: 17.922 ng
RT: 12.572 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:237 Resp: 124759

Ion	Ratio	Lower	Upper
237	100		
235	64.0	42.7	82.7
272	13.1	0.0	34.0

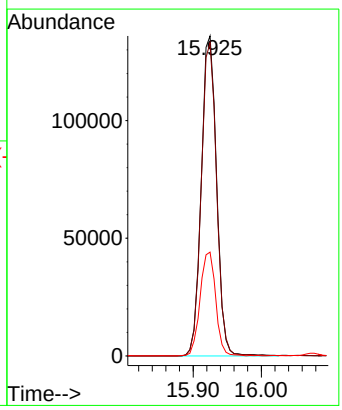


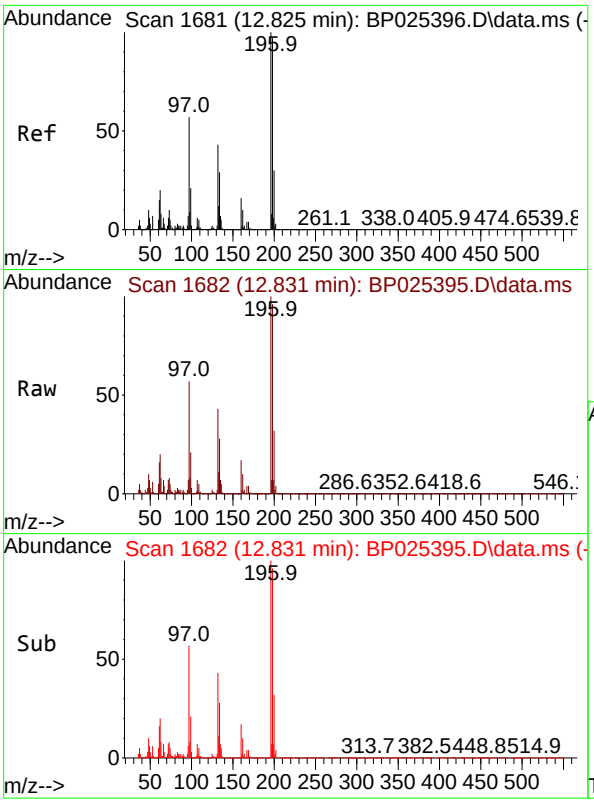


#42
2,4,6-Tribromophenol
Concen: 39.651 ng
RT: 15.925 min Scan# 2208
Delta R.T. 0.012 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:330 Resp: 212968

Ion	Ratio	Lower	Upper
330	100		
332	97.8	77.3	115.9
141	32.8	26.6	39.8



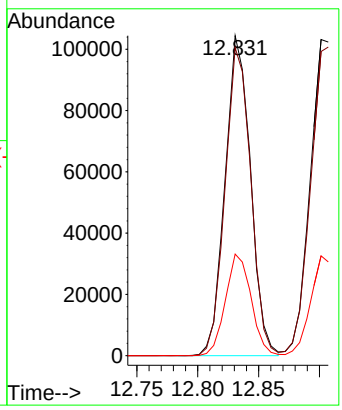


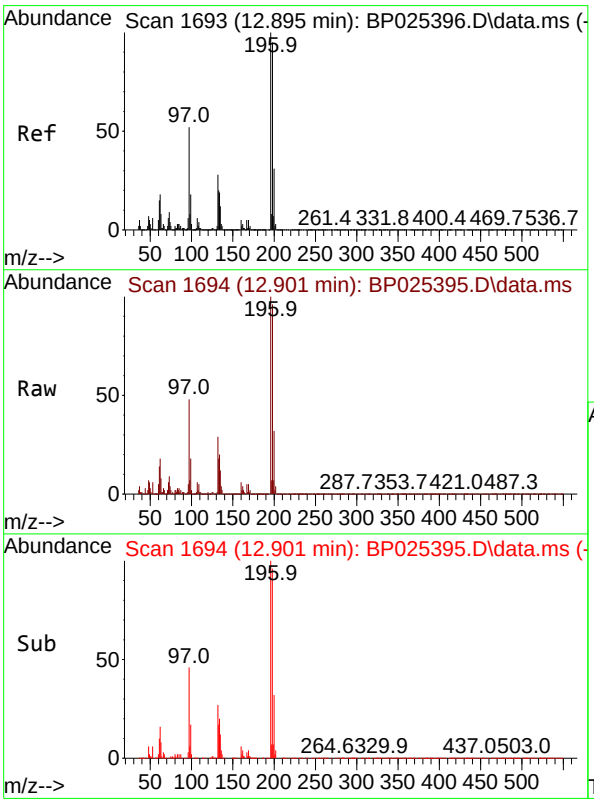
#43
2,4,6-Trichlorophenol
Concen: 19.540 ng
RT: 12.831 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:196 Resp: 152031

Ion	Ratio	Lower	Upper
196	100		
198	96.3	77.2	115.8
200	31.8	23.9	35.9

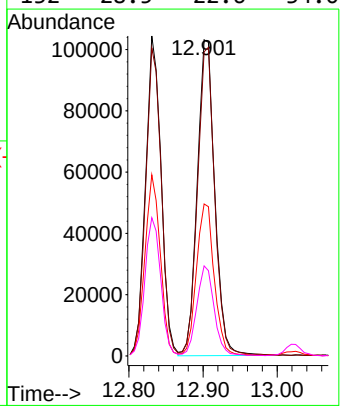


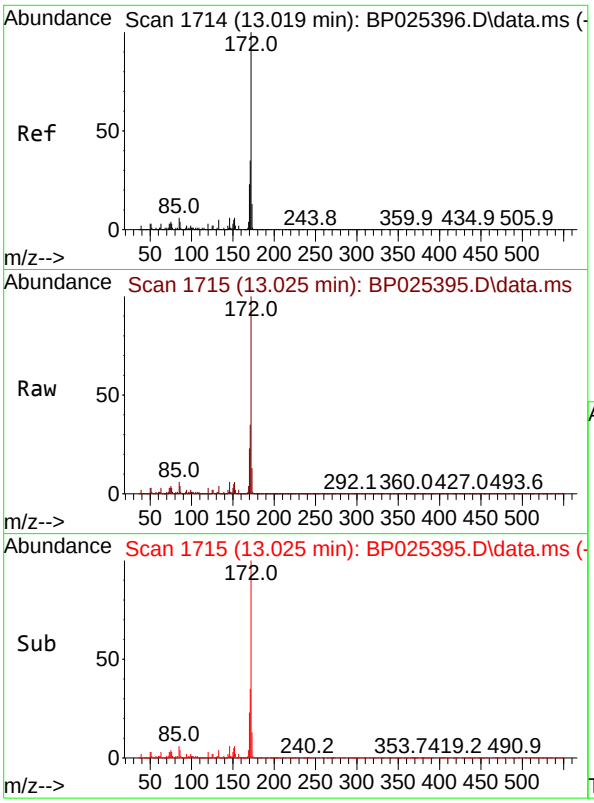


#44
2,4,5-Trichlorophenol
Concen: 19.842 ng
RT: 12.901 min Scan# 1694
Delta R.T. 0.006 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:196 Resp: 169197

Ion	Ratio	Lower	Upper
196	100		
198	96.2	76.2	114.2
97	48.1	41.2	61.8
132	28.5	22.6	34.0



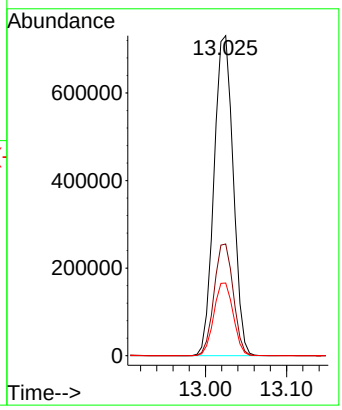


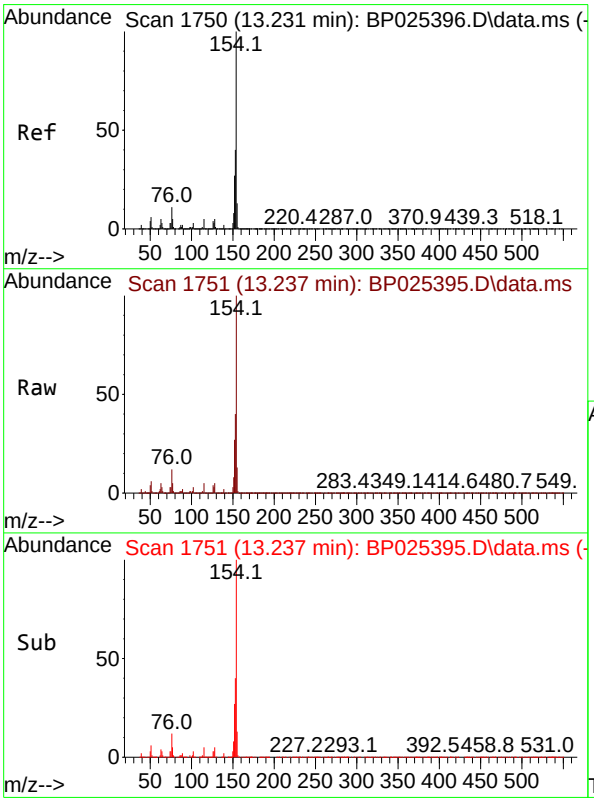
#45
2-Fluorobiphenyl
Concen: 41.205 ng
RT: 13.025 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:172 Resp: 1203064

Ion	Ratio	Lower	Upper
172	100		
171	34.9	28.1	42.1
170	22.7	18.6	28.0

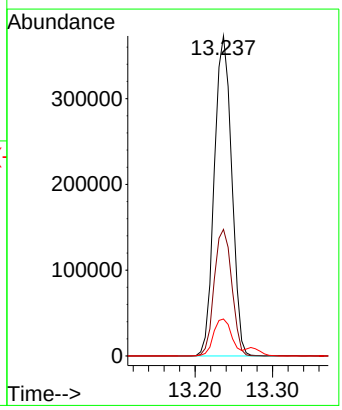


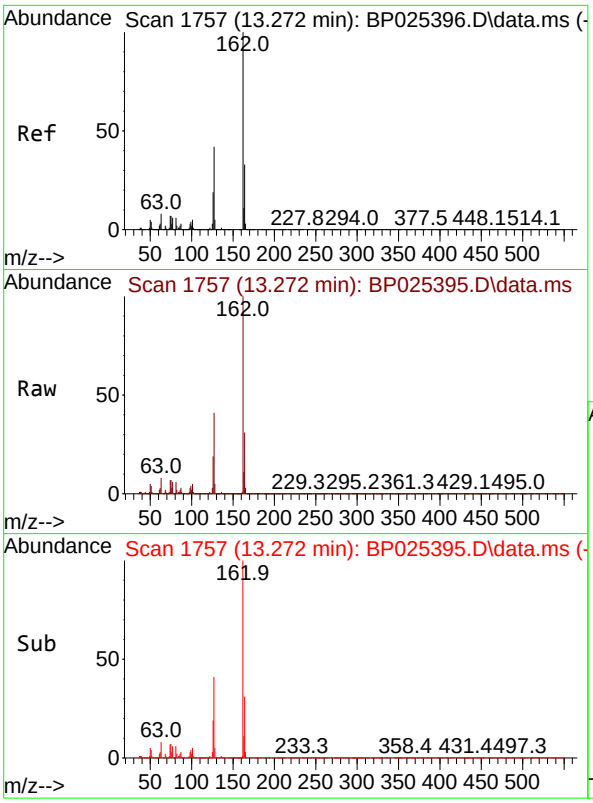


#46
1,1'-Biphenyl
Concen: 20.064 ng
RT: 13.237 min Scan# 1751
Delta R.T. 0.006 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:154 Resp: 581464

Ion	Ratio	Lower	Upper
154	100		
153	39.5	19.5	59.5
76	11.5	0.0	31.1



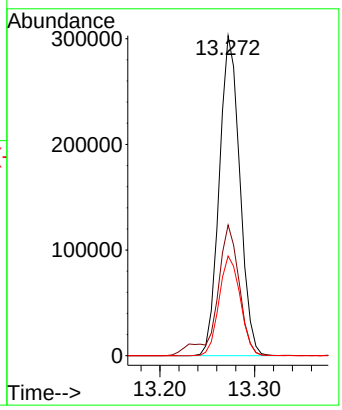


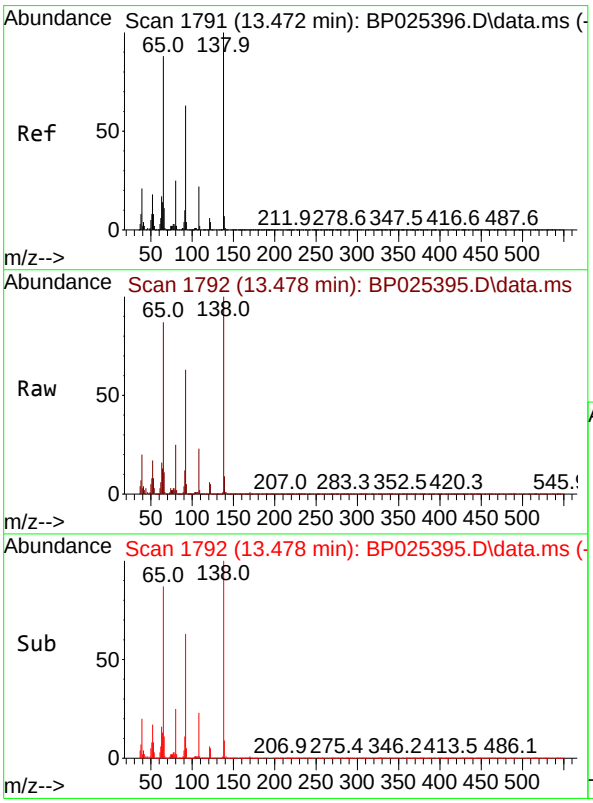
#47
2-Chloronaphthalene
Concen: 20.237 ng
RT: 13.272 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:162 Resp: 456552

Ion	Ratio	Lower	Upper
162	100		
127	40.9	33.4	50.2
164	31.2	26.2	39.2

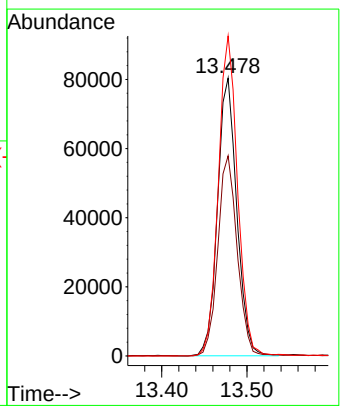


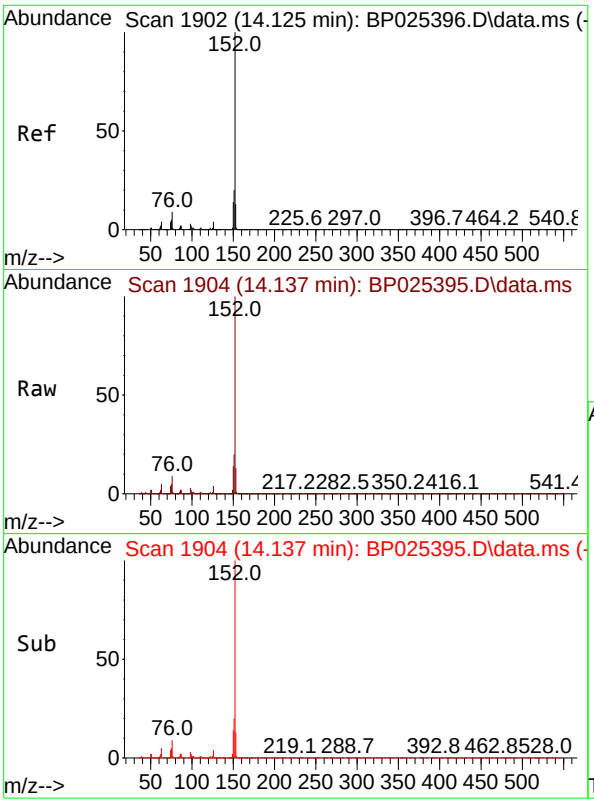


#48
2-Nitroaniline
Concen: 19.233 ng
RT: 13.478 min Scan# 1792
Delta R.T. 0.006 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion: 65 Resp: 126433

Ion	Ratio	Lower	Upper
65	100		
92	72.0	57.6	86.4
138	115.1	91.0	136.6



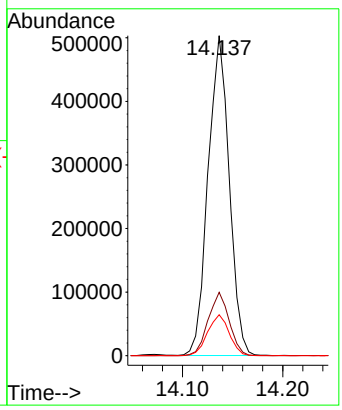


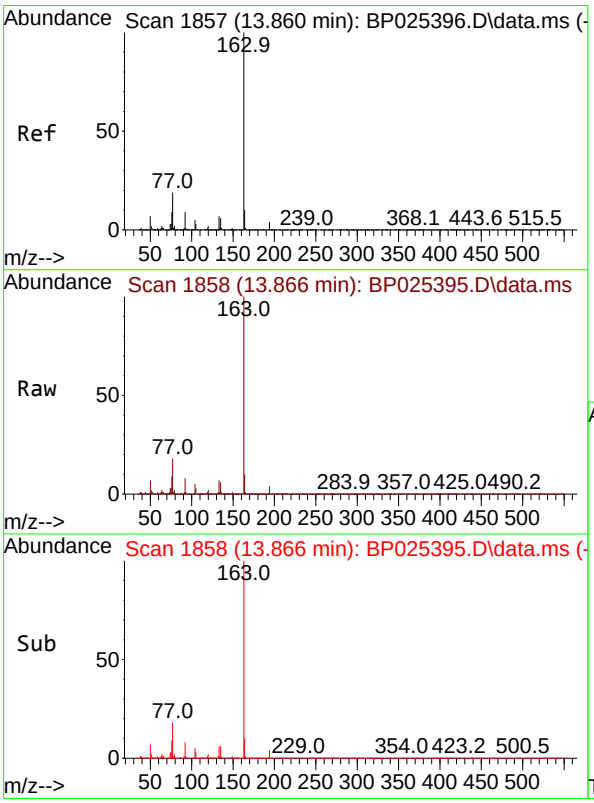
#49
Acenaphthylene
Concen: 19.756 ng
RT: 14.137 min Scan# 1
Delta R.T. 0.012 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:152 Resp: 737527

Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.0	24.0
153	12.8	10.6	15.8

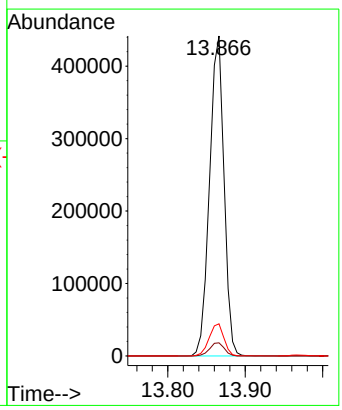


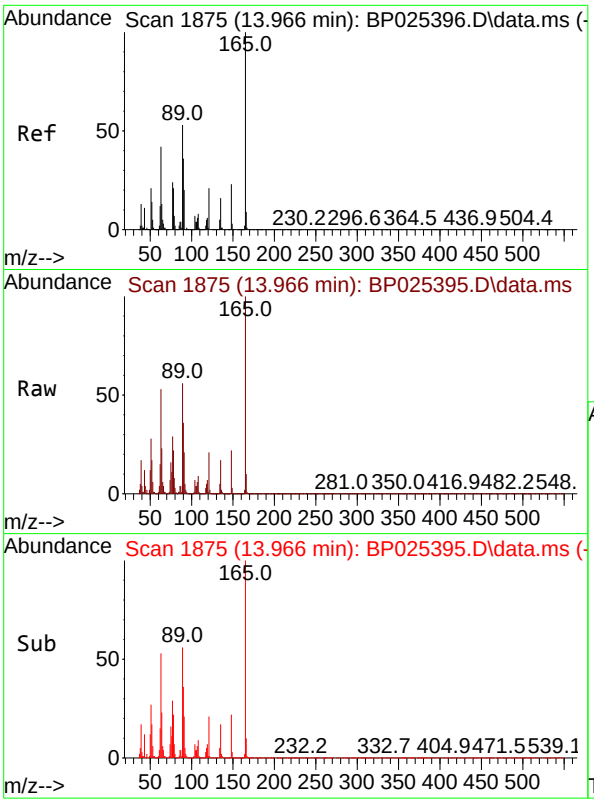


#50
Dimethylphthalate
Concen: 19.632 ng
RT: 13.866 min Scan# 1858
Delta R.T. 0.006 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:163 Resp: 573661

Ion	Ratio	Lower	Upper
163	100		
194	4.1	3.4	5.0
164	10.1	7.9	11.9



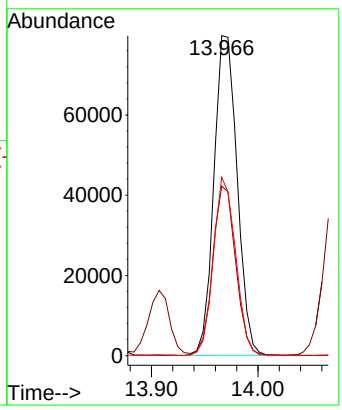


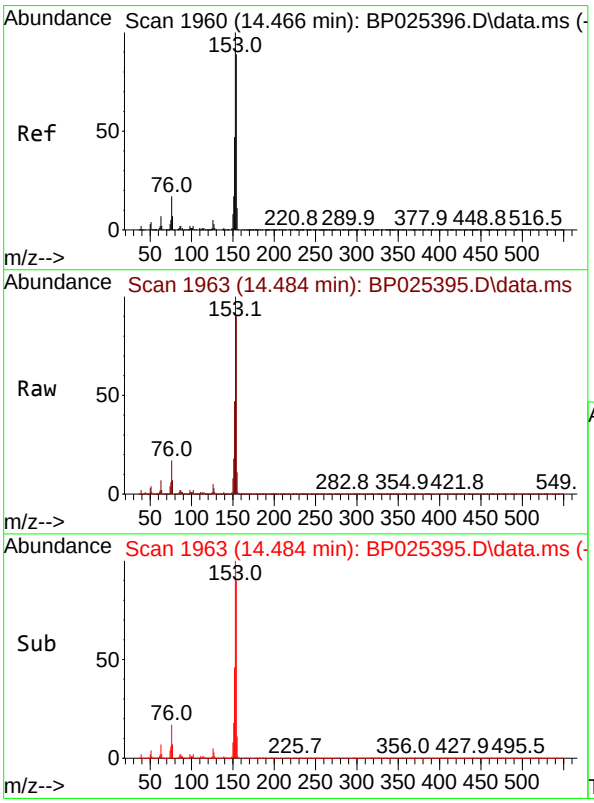
#51
2,6-Dinitrotoluene
Concen: 19.597 ng
RT: 13.966 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:165 Resp: 120693

Ion	Ratio	Lower	Upper
165	100		
63	52.9	40.9	61.3
89	55.7	42.1	63.1

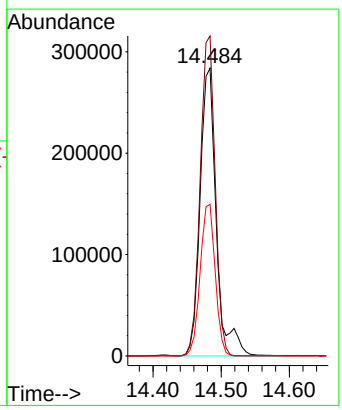


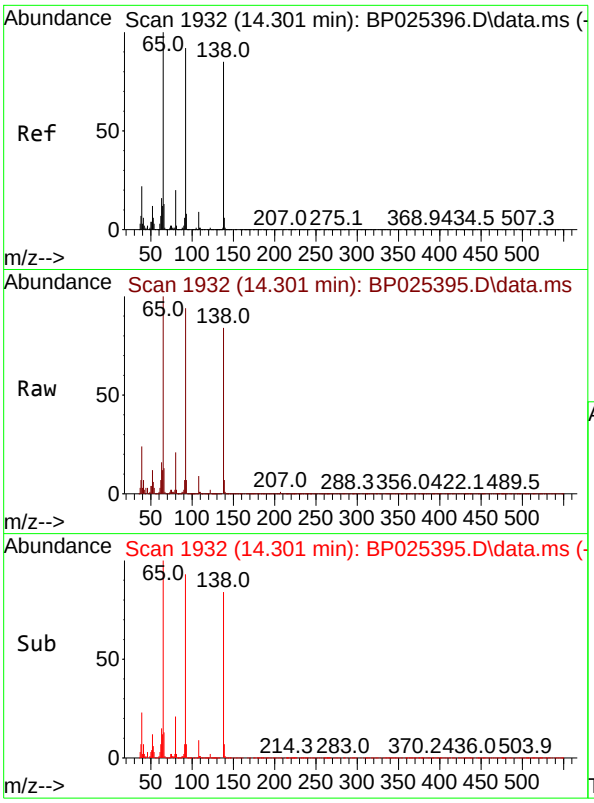


#52
Acenaphthene
Concen: 21.423 ng
RT: 14.484 min Scan# 1963
Delta R.T. 0.018 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:154 Resp: 469441

Ion	Ratio	Lower	Upper
154	100		
153	111.2	90.2	135.2
152	52.7	42.1	63.1



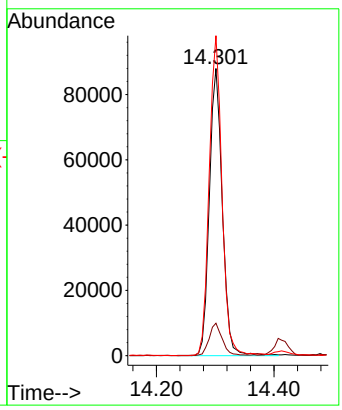


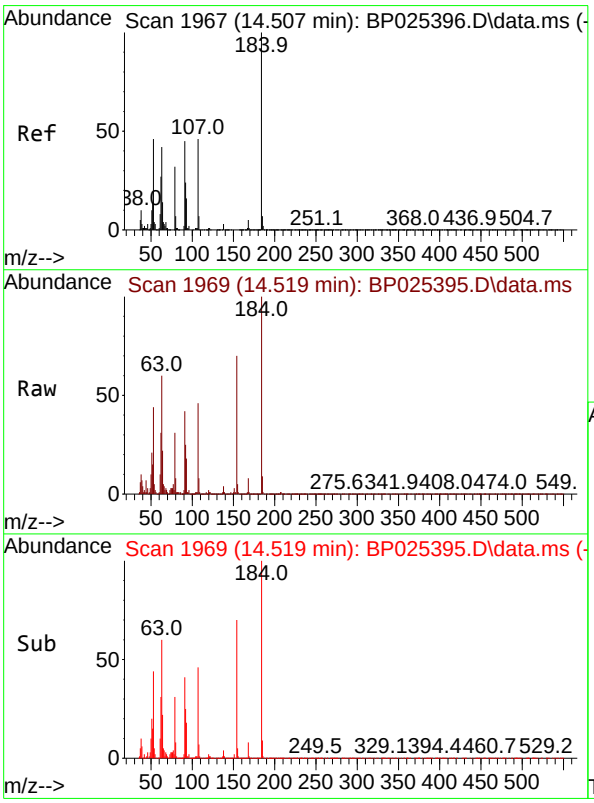
#53
3-Nitroaniline
Concen: 19.410 ng
RT: 14.301 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:138 Resp: 134502

Ion	Ratio	Lower	Upper
138	100		
108	11.3	8.3	12.5
92	111.4	86.2	129.2

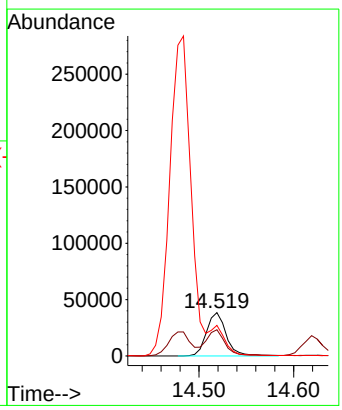


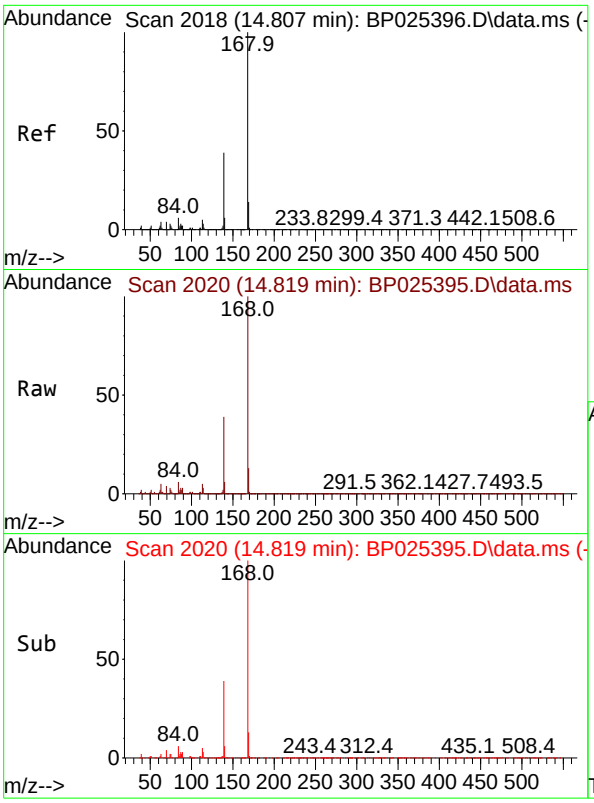


#54
2,4-Dinitrophenol
Concen: 16.939 ng
RT: 14.519 min Scan# 1969
Delta R.T. 0.012 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:184 Resp: 55713

Ion	Ratio	Lower	Upper
184	100		
63	60.4	49.4	74.2
154	70.4	54.6	82.0



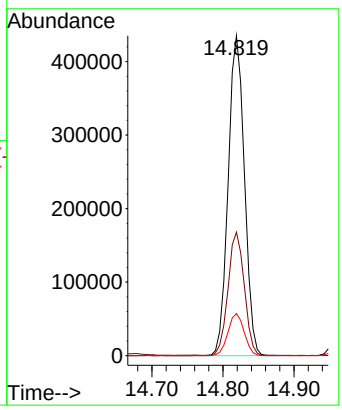


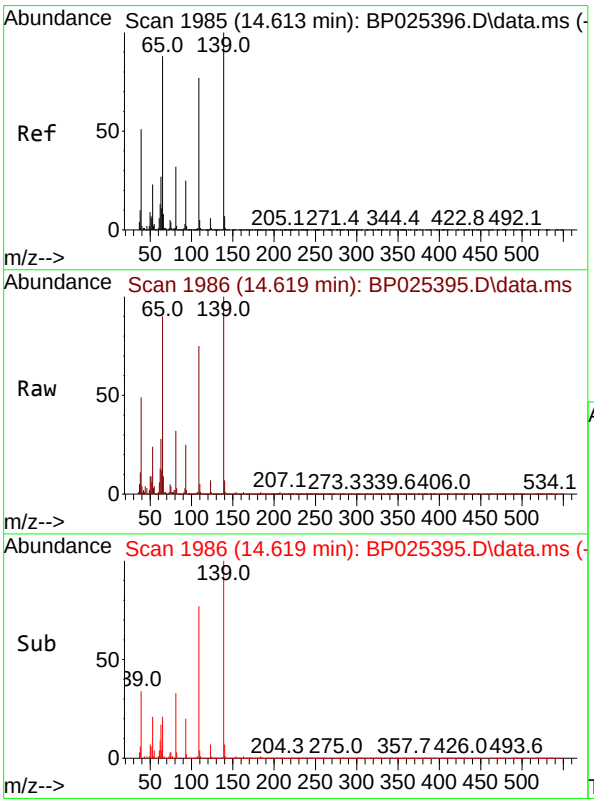
#55
Dibenzofuran
Concen: 20.002 ng
RT: 14.819 min Scan# 2
Delta R.T. 0.012 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:168 Resp: 692966

Ion	Ratio	Lower	Upper
168	100		
139	38.6	31.5	47.3
169	13.1	10.9	16.3

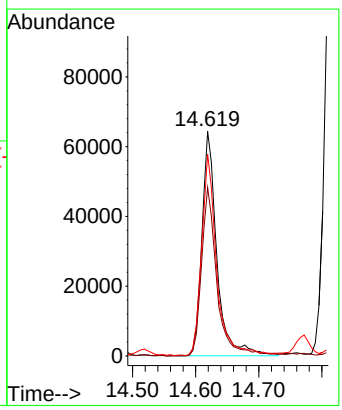


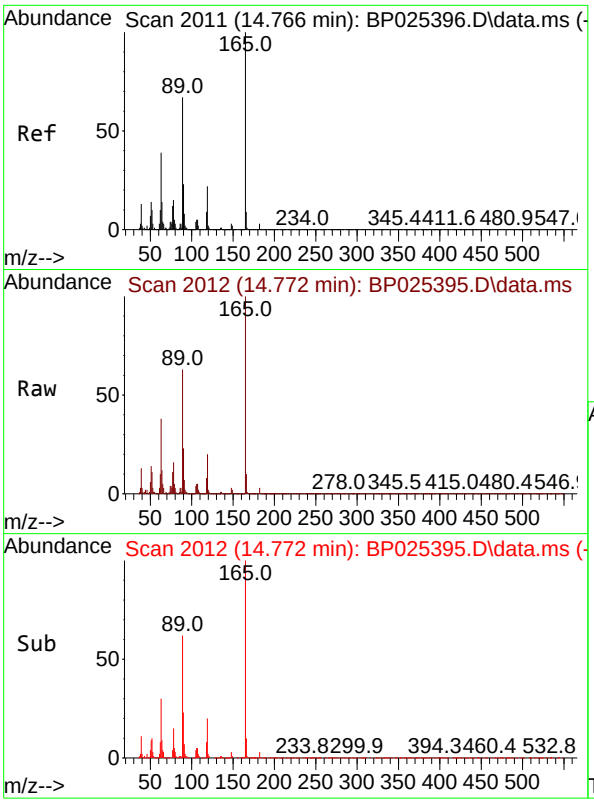


#56
4-Nitrophenol
Concen: 18.578 ng
RT: 14.619 min Scan# 1986
Delta R.T. 0.006 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:139 Resp: 105787

Ion	Ratio	Lower	Upper
139	100		
109	75.0	56.6	96.6
65	89.8	68.2	108.2



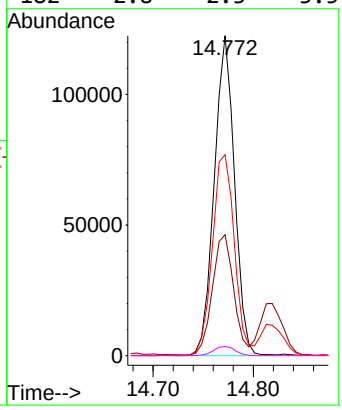


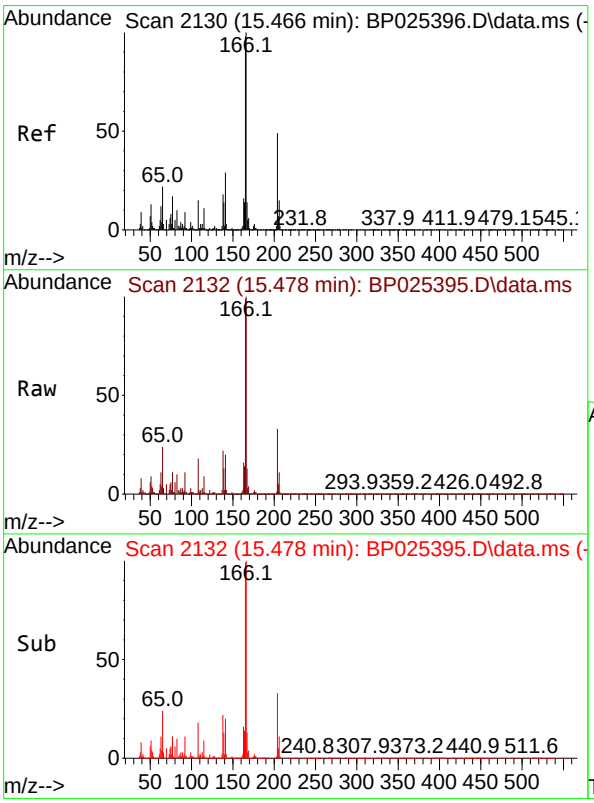
#57
2,4-Dinitrotoluene
Concen: 19.576 ng
RT: 14.772 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:165 Resp: 172020

Ion	Ratio	Lower	Upper
165	100		
63	37.8	31.4	47.2
89	62.8	53.3	79.9
182	2.8	2.3	3.5

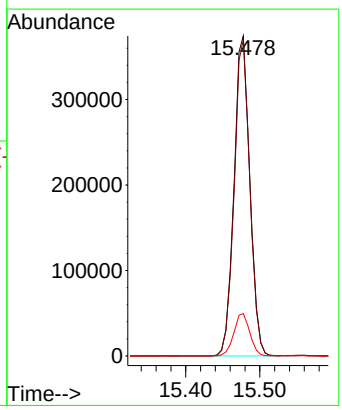


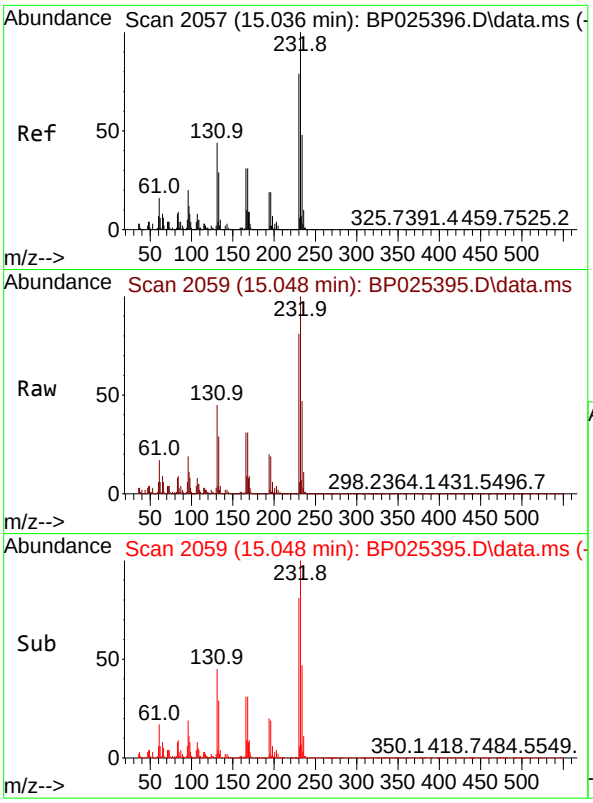


#58
Fluorene
Concen: 20.289 ng
RT: 15.478 min Scan# 2132
Delta R.T. 0.012 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:166 Resp: 554647

Ion	Ratio	Lower	Upper
166	100		
165	98.8	78.8	118.2
167	13.3	11.0	16.4



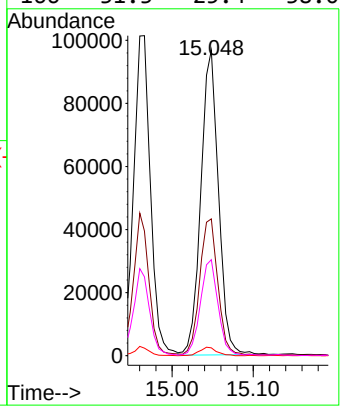


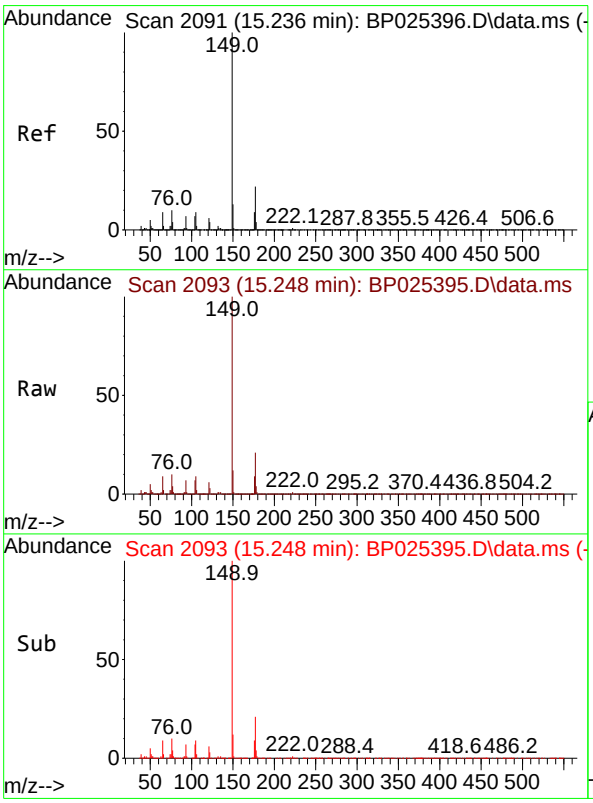
#59
2,3,4,6-Tetrachlorophenol
Concen: 19.381 ng
RT: 15.048 min Scan# 2
Delta R.T. 0.012 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:232 Resp: 145926

Ion	Ratio	Lower	Upper
232	100		
131	45.5	37.0	55.6
130	2.7	1.9	2.9
166	31.3	25.4	38.0

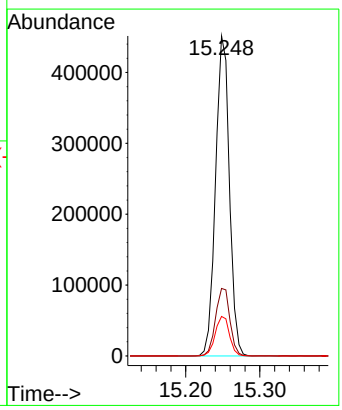


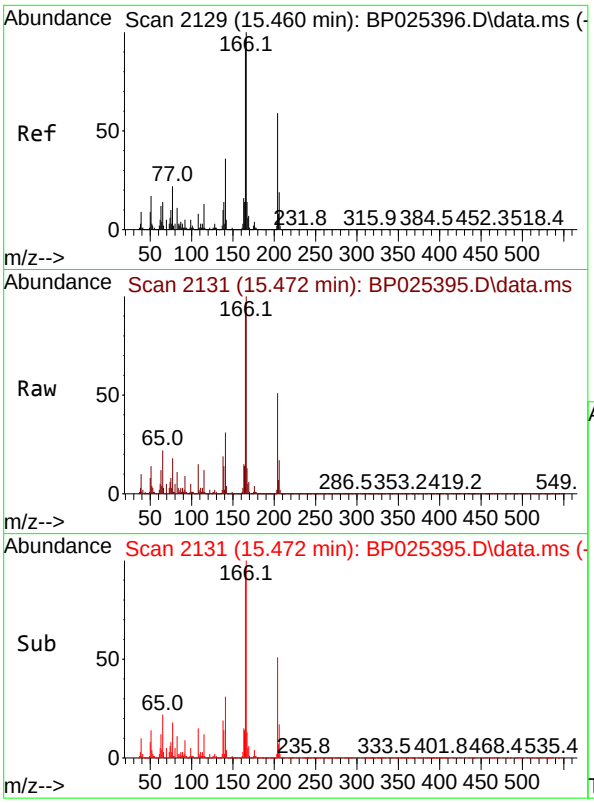


#60
Diethylphthalate
Concen: 19.689 ng
RT: 15.248 min Scan# 2093
Delta R.T. 0.012 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:149 Resp: 584590

Ion	Ratio	Lower	Upper
149	100		
177	21.1	17.3	25.9
150	12.4	10.3	15.5



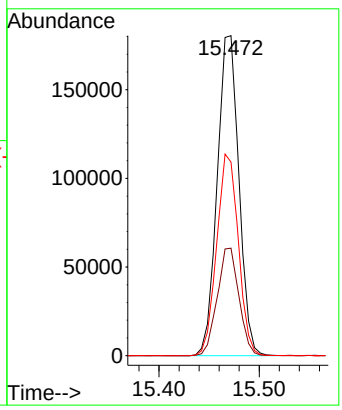


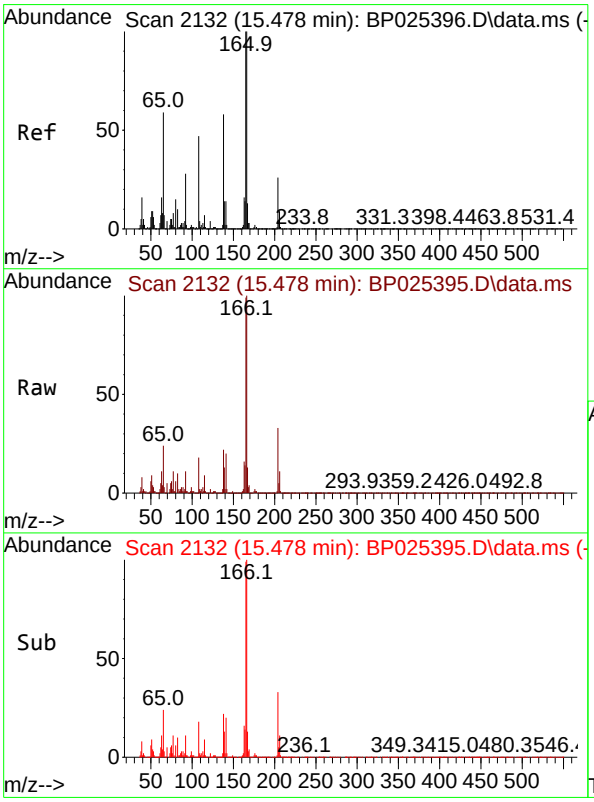
#61
4-Chlorophenyl-phenylether
Concen: 19.929 ng
RT: 15.472 min Scan# 21
Delta R.T. 0.012 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:204 Resp: 270949

Ion	Ratio	Lower	Upper
204	100		
206	33.6	25.8	38.8
141	60.5	49.4	74.2

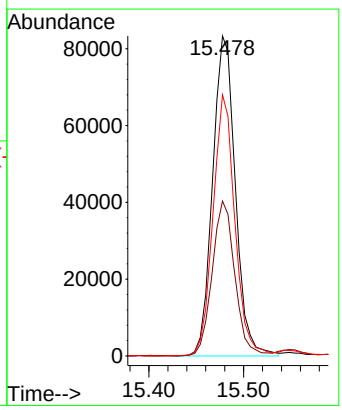


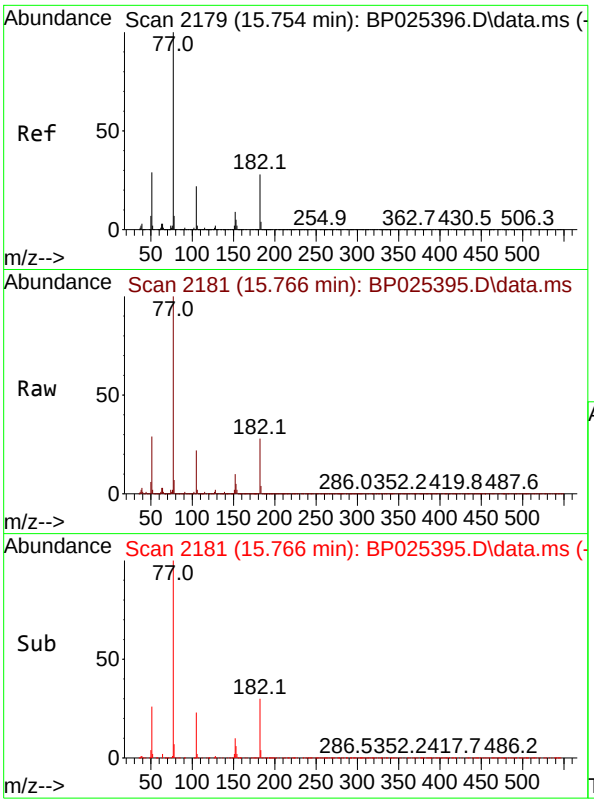


#62
4-Nitroaniline
Concen: 19.595 ng
RT: 15.478 min Scan# 2132
Delta R.T. 0.000 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:138 Resp: 139202

Ion	Ratio	Lower	Upper
138	100		
92	48.4	29.1	69.1
108	81.6	61.5	101.5



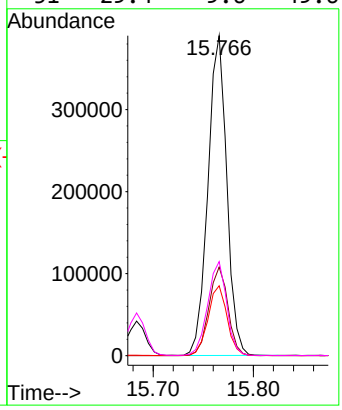


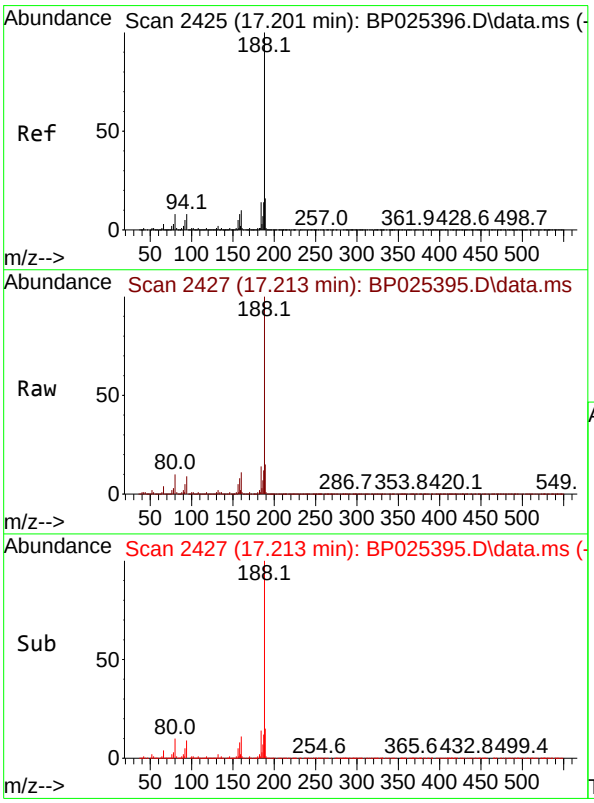
#63
Azobenzene
Concen: 20.004 ng
RT: 15.766 min Scan# 21
Delta R.T. 0.012 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion: 77 Resp: 508563

Ion	Ratio	Lower	Upper
77	100		
182	27.7	7.5	47.5
105	21.9	2.1	42.1
51	29.4	9.6	49.6

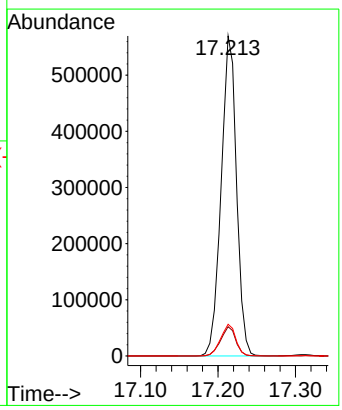


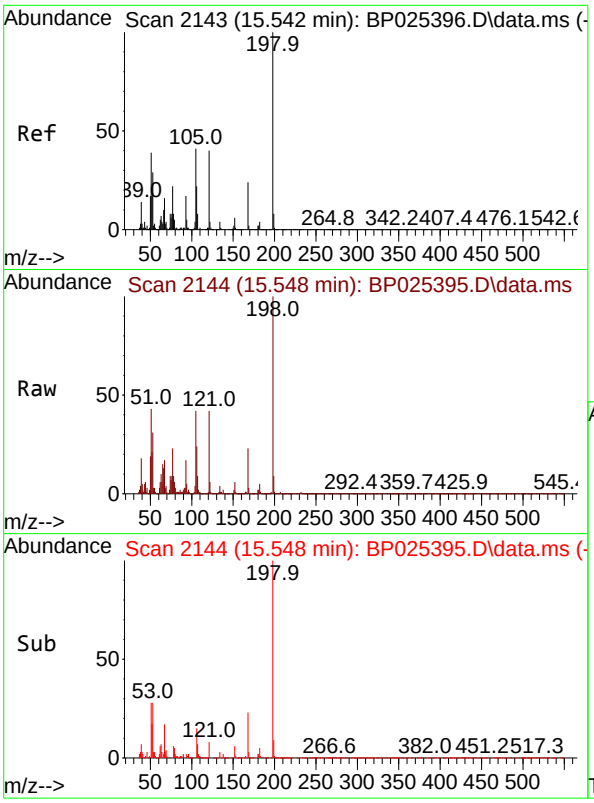


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.213 min Scan# 2427
Delta R.T. 0.012 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:188 Resp: 785736

Ion	Ratio	Lower	Upper
188	100		
94	9.1	6.6	10.0
80	9.9	6.7	10.1



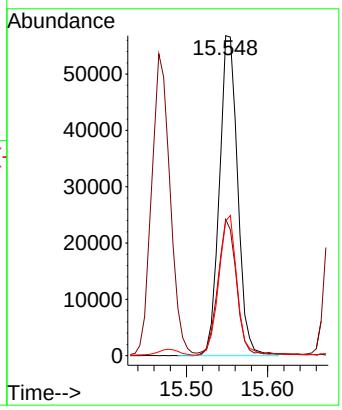


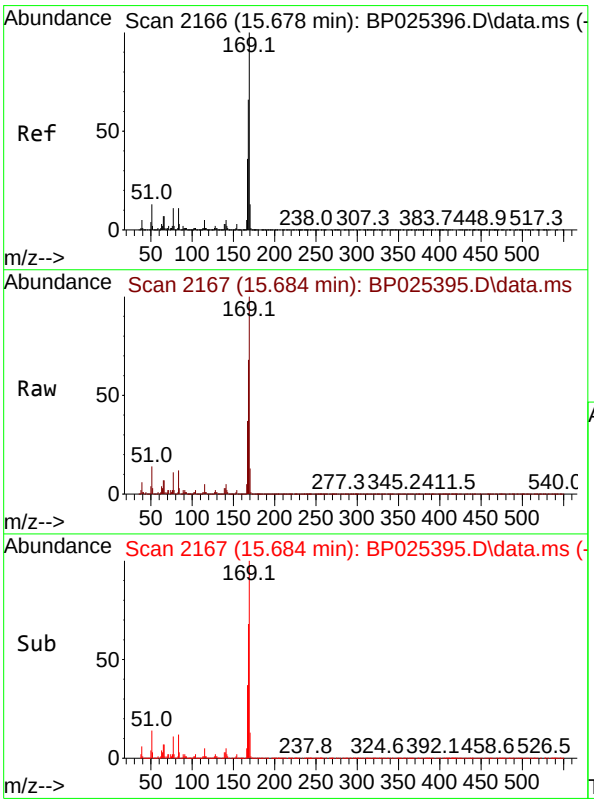
#65
4,6-Dinitro-2-methylphenol
Concen: 18.169 ng
RT: 15.548 min Scan# 21
Delta R.T. 0.006 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:198 Resp: 88992

Ion	Ratio	Lower	Upper
198	100		
51	42.6	19.6	59.6
105	42.2	20.9	60.9

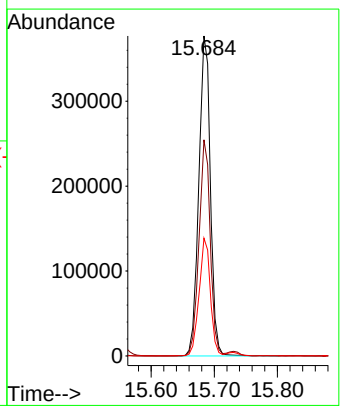


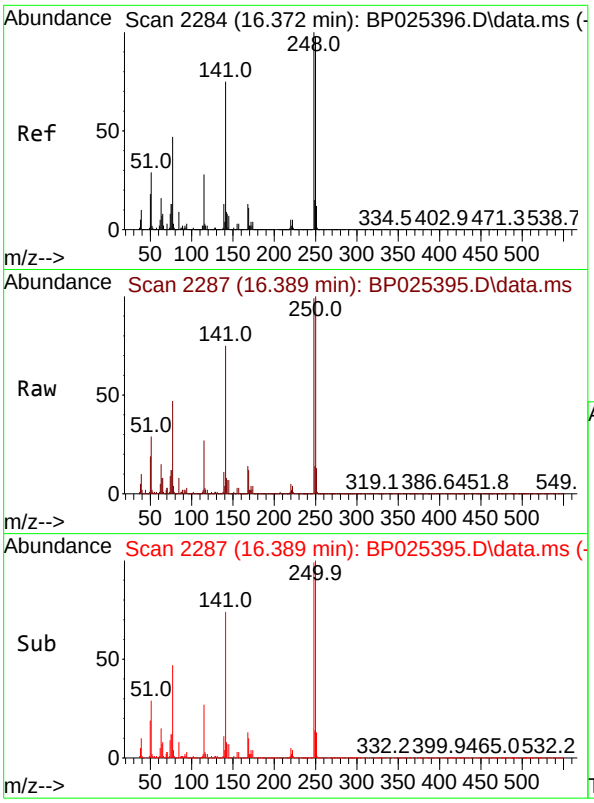


#66
n-Nitrosodiphenylamine
Concen: 19.911 ng
RT: 15.684 min Scan# 2167
Delta R.T. 0.006 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:169 Resp: 477080

Ion	Ratio	Lower	Upper
169	100		
168	67.5	53.2	79.8
167	36.8	28.7	43.1



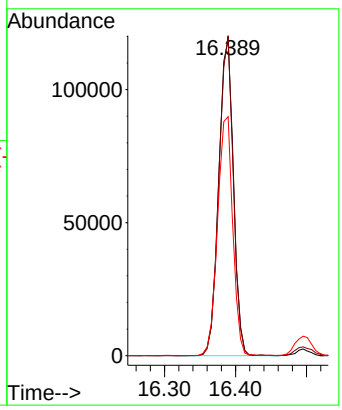


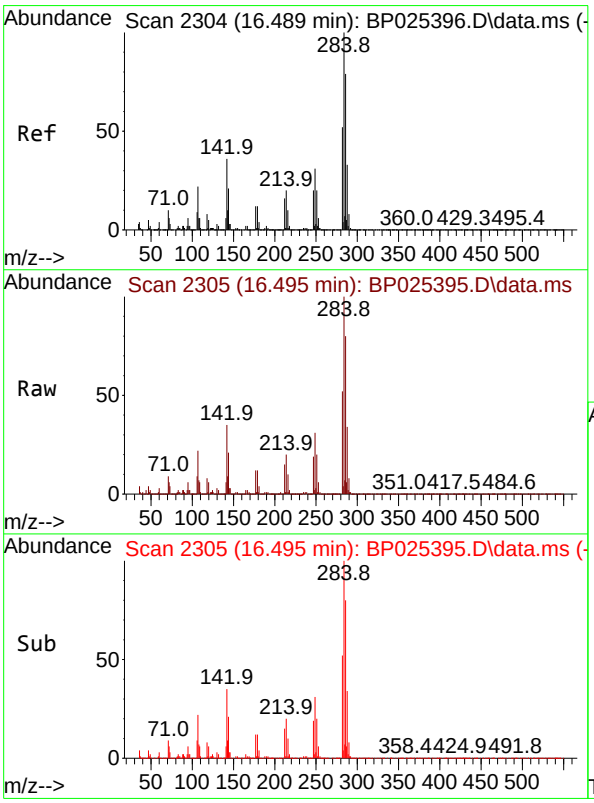
#67
4-Bromophenyl-phenylether
Concen: 19.758 ng
RT: 16.389 min Scan# 2
Delta R.T. 0.018 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:248 Resp: 170738

Ion	Ratio	Lower	Upper
248	100		
250	101.4	78.2	117.2
141	75.7	59.6	89.4

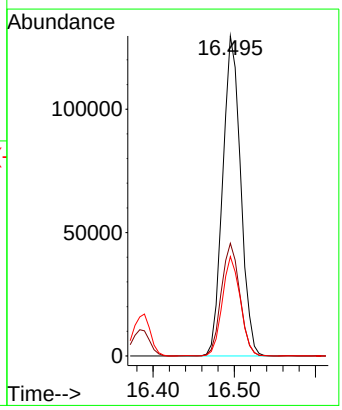


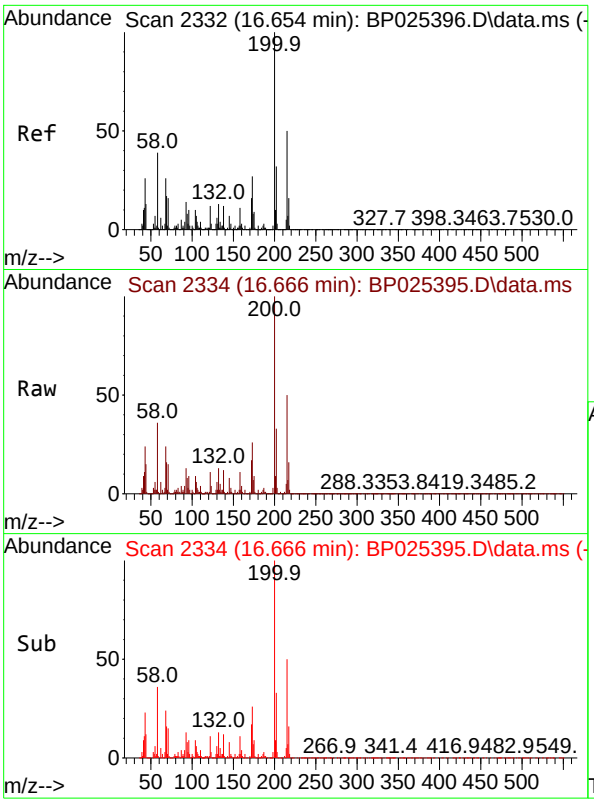


#68
Hexachlorobenzene
Concen: 19.906 ng
RT: 16.495 min Scan# 2305
Delta R.T. 0.006 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:284 Resp: 199410

Ion	Ratio	Lower	Upper
284	100		
142	35.2	29.1	43.7
249	31.0	25.0	37.4



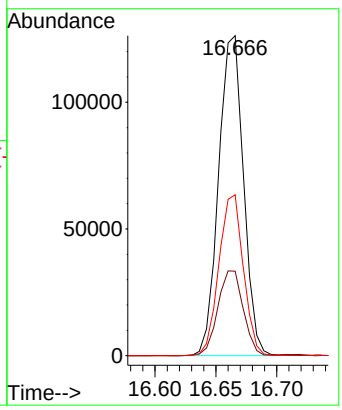


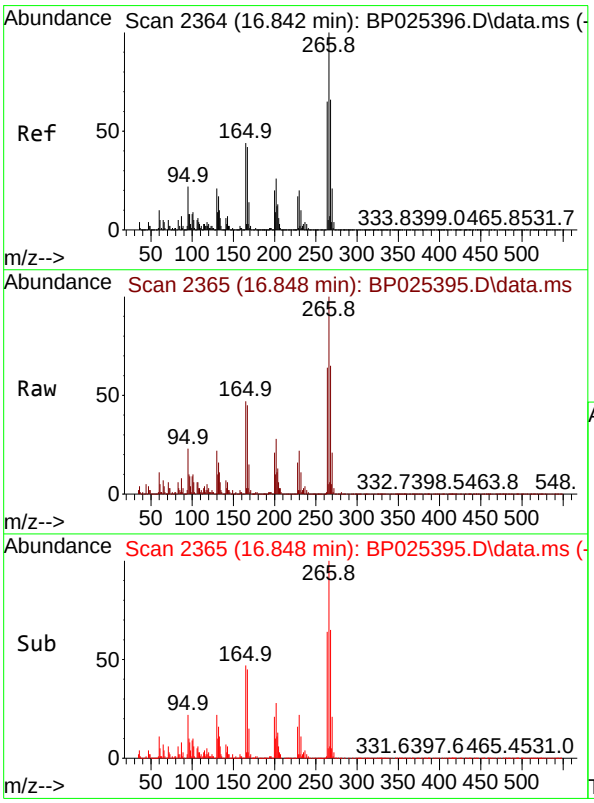
#69
Atrazine
Concen: 20.006 ng
RT: 16.666 min Scan# 2
Delta R.T. 0.012 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:200 Resp: 179513

Ion	Ratio	Lower	Upper
200	100		
173	26.4	6.7	46.7
215	50.3	29.7	69.7

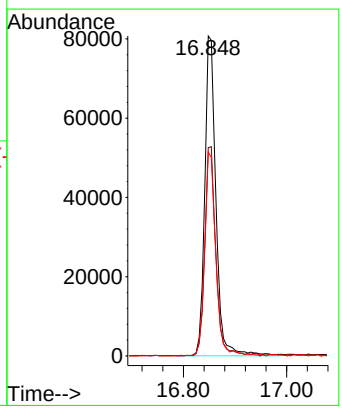


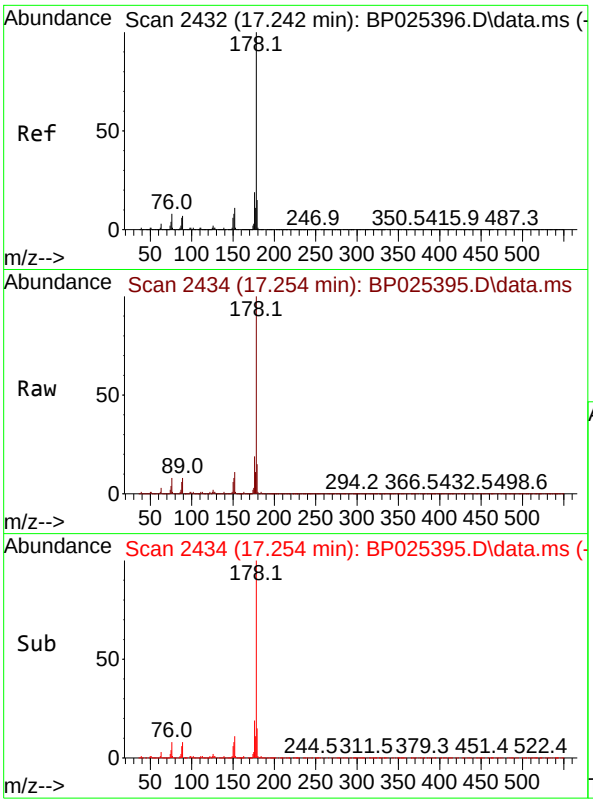


#70
Pentachlorophenol
Concen: 19.128 ng
RT: 16.848 min Scan# 2365
Delta R.T. 0.006 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:266 Resp: 120958

Ion	Ratio	Lower	Upper
266	100		
268	65.1	52.6	79.0
264	63.6	52.0	78.0



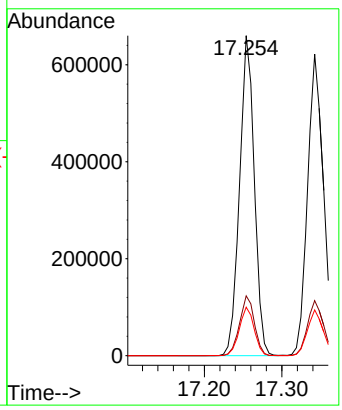


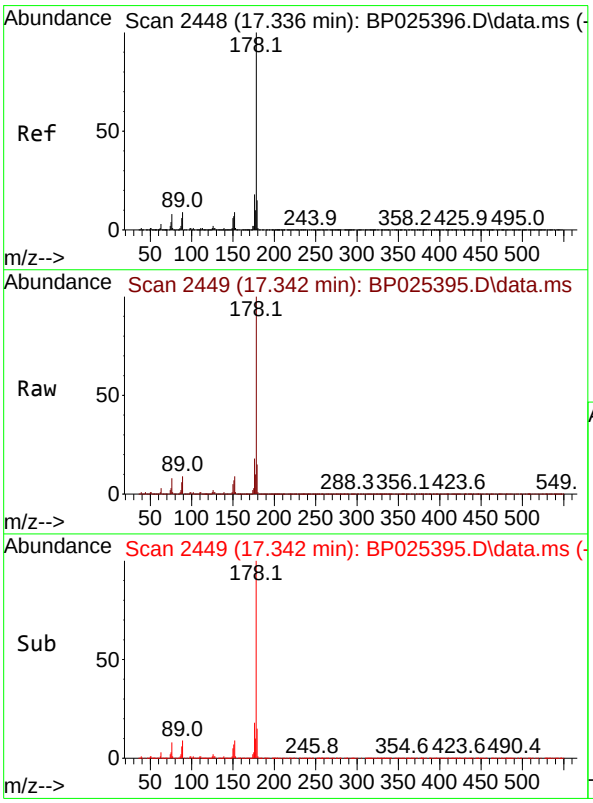
#71
Phenanthrene
Concen: 20.223 ng
RT: 17.254 min Scan# 24
Delta R.T. 0.012 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:178 Resp: 872890

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.5	23.3
179	15.2	12.2	18.4

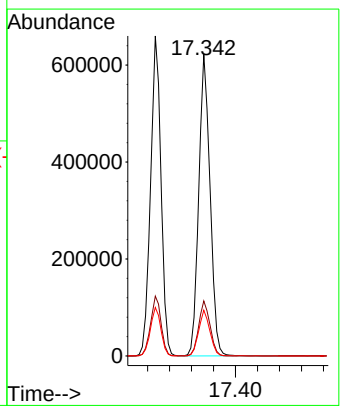


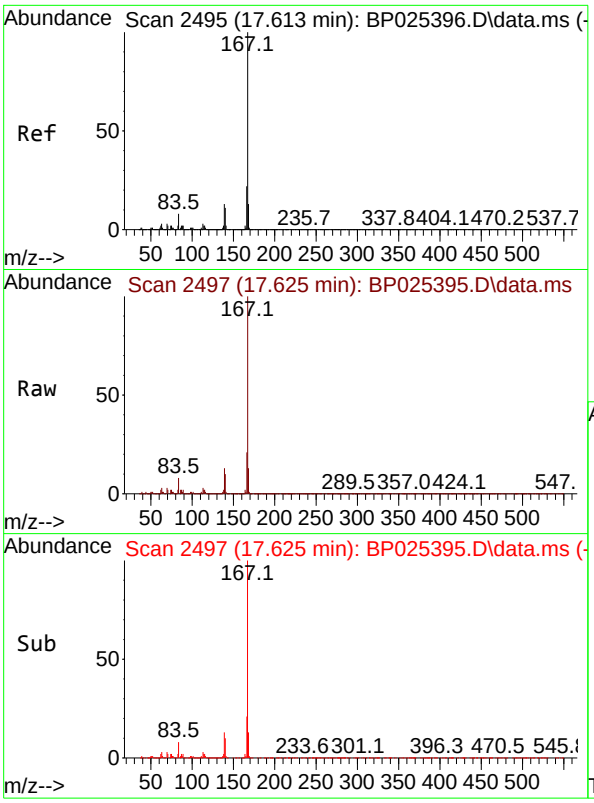


#72
Anthracene
Concen: 20.198 ng
RT: 17.342 min Scan# 2449
Delta R.T. 0.006 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:178 Resp: 890292

Ion	Ratio	Lower	Upper
178	100		
176	18.3	14.7	22.1
179	15.2	12.2	18.2



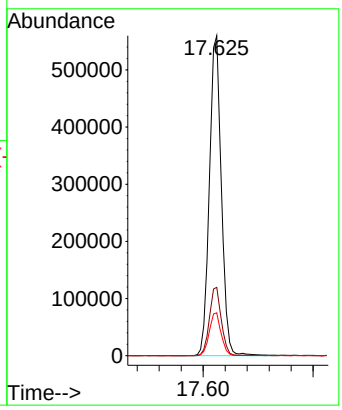


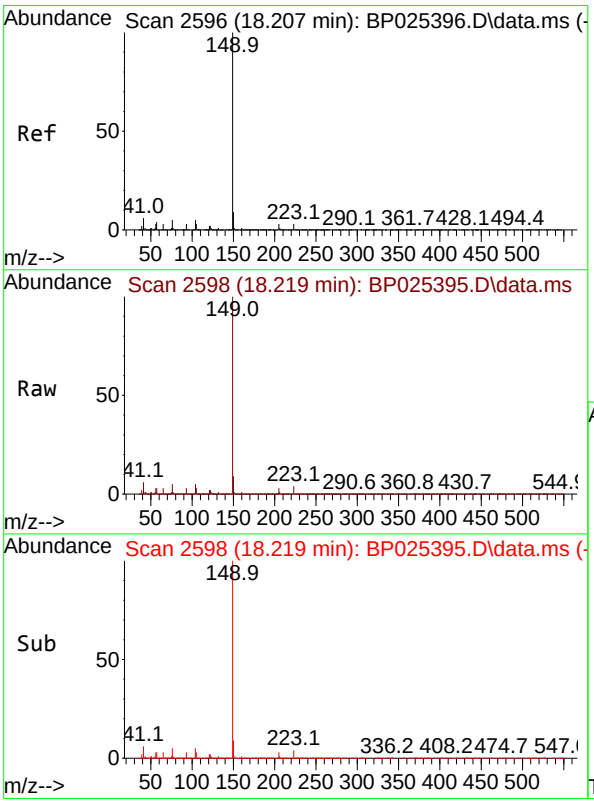
#73
Carbazole
Concen: 20.328 ng
RT: 17.625 min Scan# 24
Delta R.T. 0.012 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:167 Resp: 843970

Ion	Ratio	Lower	Upper
167	100		
166	21.4	17.5	26.3
139	13.4	10.6	16.0

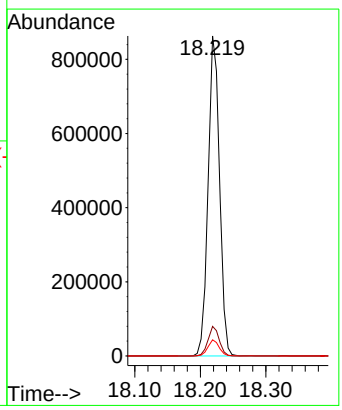


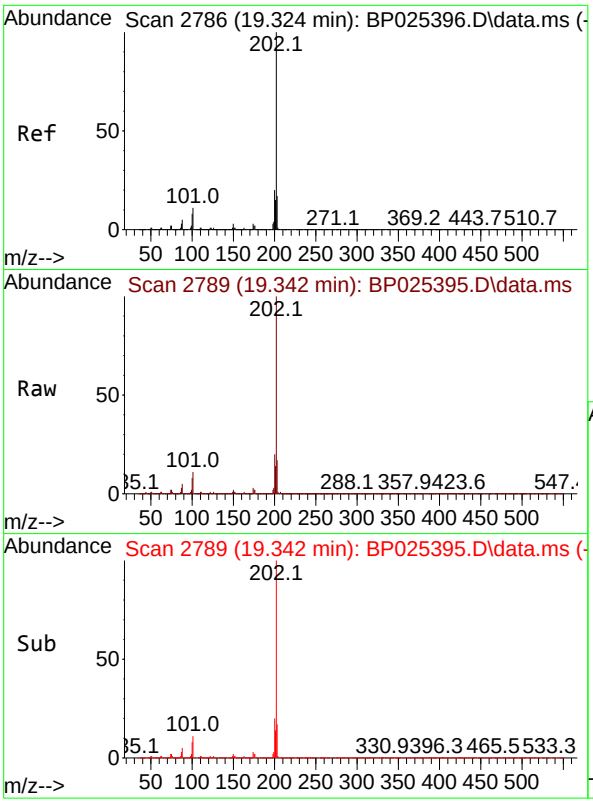


#74
Di-n-butylphthalate
Concen: 20.491 ng
RT: 18.219 min Scan# 2598
Delta R.T. 0.012 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:149 Resp: 1046709

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.4	11.0
104	5.1	4.2	6.2



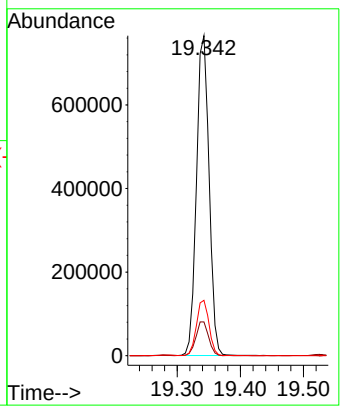


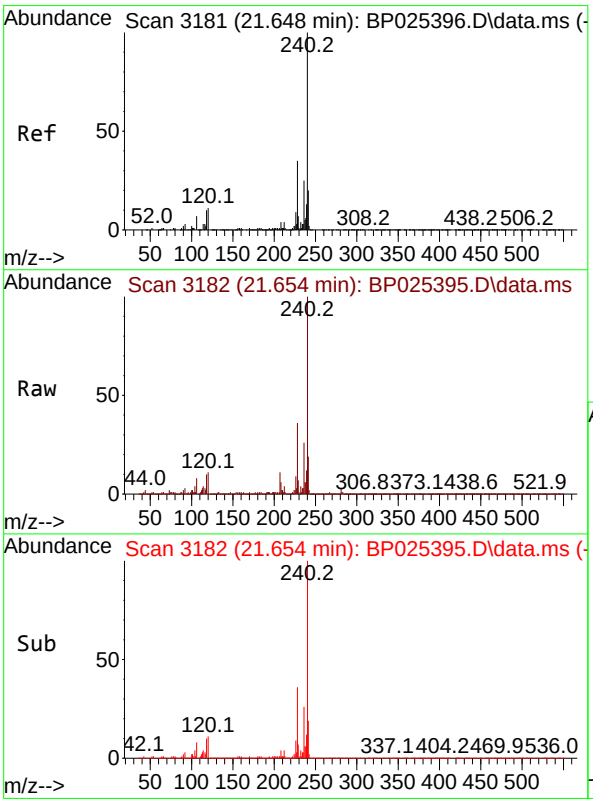
#75
Fluoranthene
Concen: 20.567 ng
RT: 19.342 min Scan# 2
Delta R.T. 0.018 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:202 Resp: 1058912

Ion	Ratio	Lower	Upper
202	100		
101	10.5	0.0	31.1
203	17.3	0.0	37.3

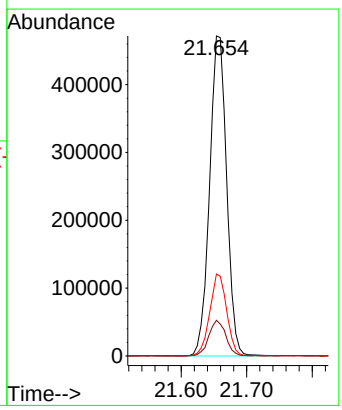


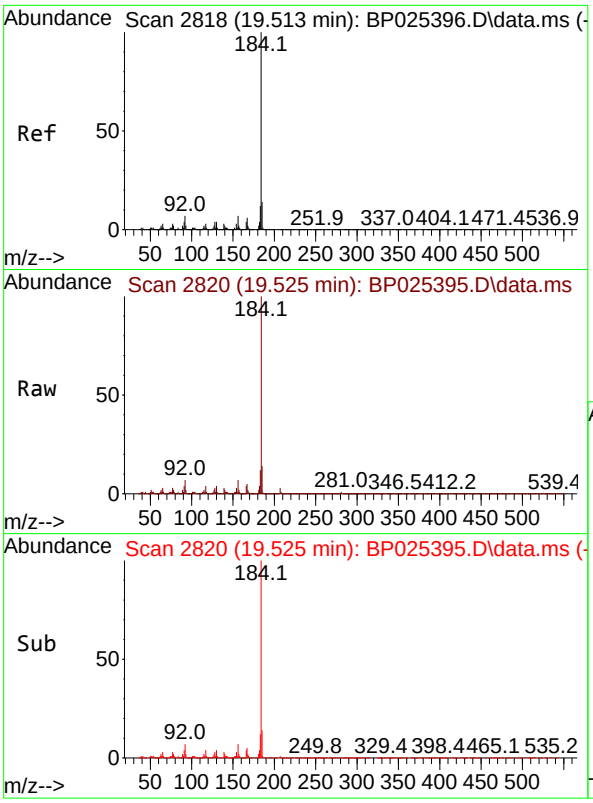


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.654 min Scan# 3182
Delta R.T. 0.006 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:240 Resp: 852065

Ion	Ratio	Lower	Upper
240	100		
120	11.2	8.9	13.3
236	25.6	19.8	29.8



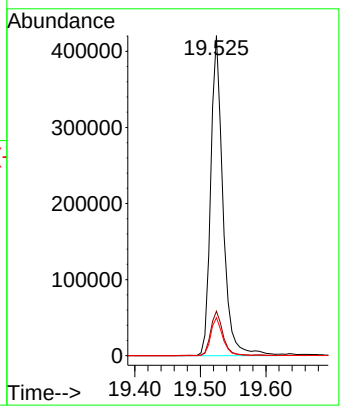


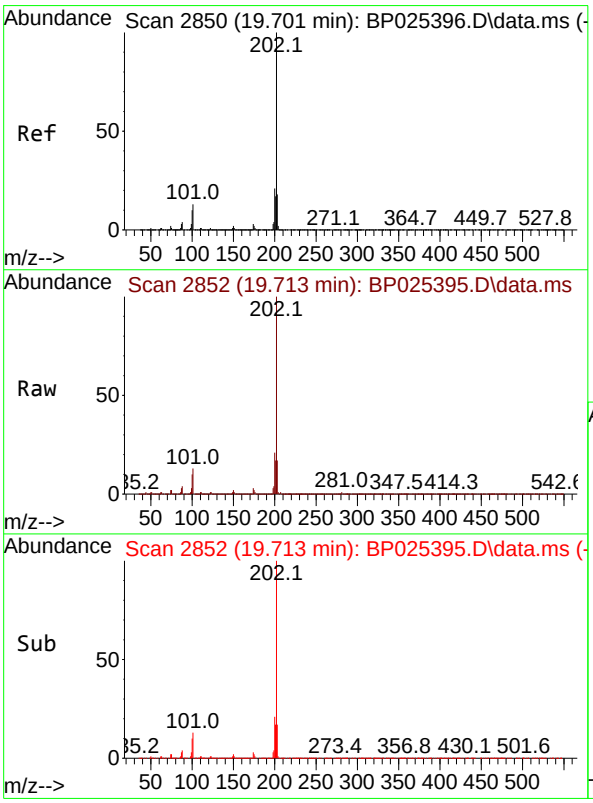
#77
Benzidine
Concen: 18.799 ng
RT: 19.525 min Scan# 2
Delta R.T. 0.012 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:184 Resp: 546647

Ion	Ratio	Lower	Upper
184	100		
185	13.9	11.5	17.3
183	11.9	9.4	14.2

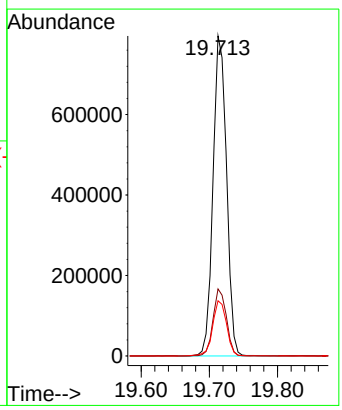


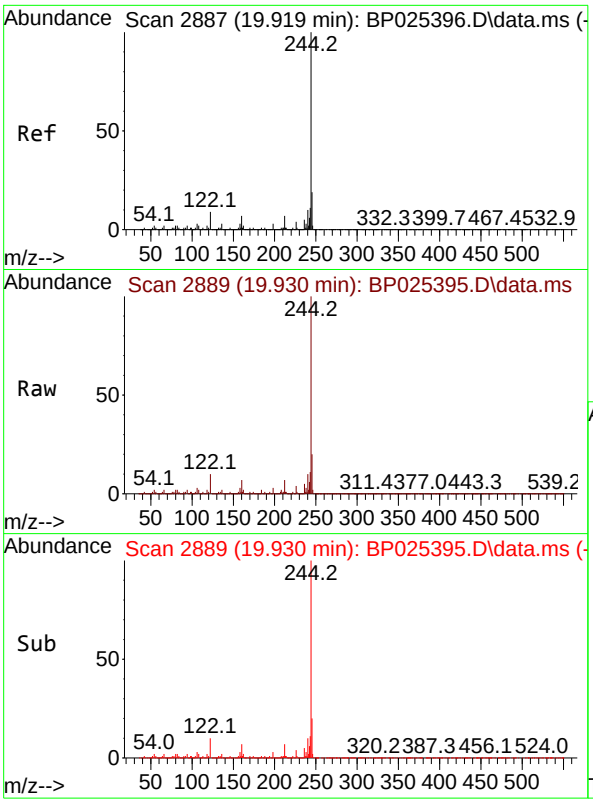


#78
Pyrene
Concen: 19.807 ng
RT: 19.713 min Scan# 2852
Delta R.T. 0.012 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:202 Resp: 1096965

Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.9	25.3
203	17.3	14.2	21.2



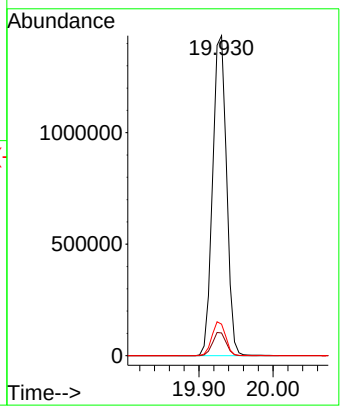


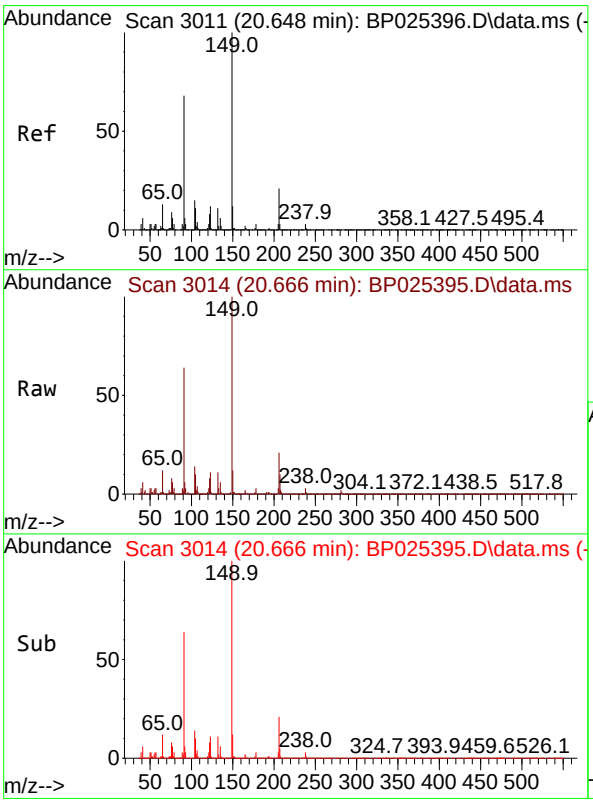
#79
Terphenyl-d14
Concen: 40.152 ng
RT: 19.930 min Scan# 2
Delta R.T. 0.012 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:244 Resp: 1869951

Ion	Ratio	Lower	Upper
244	100		
212	7.1	5.8	8.6
122	9.9	7.4	11.2

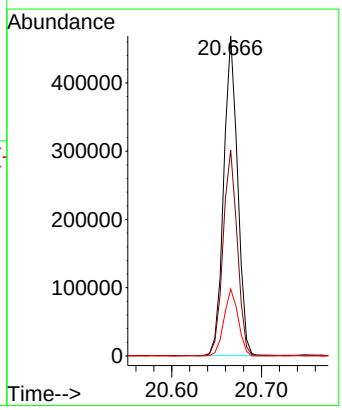


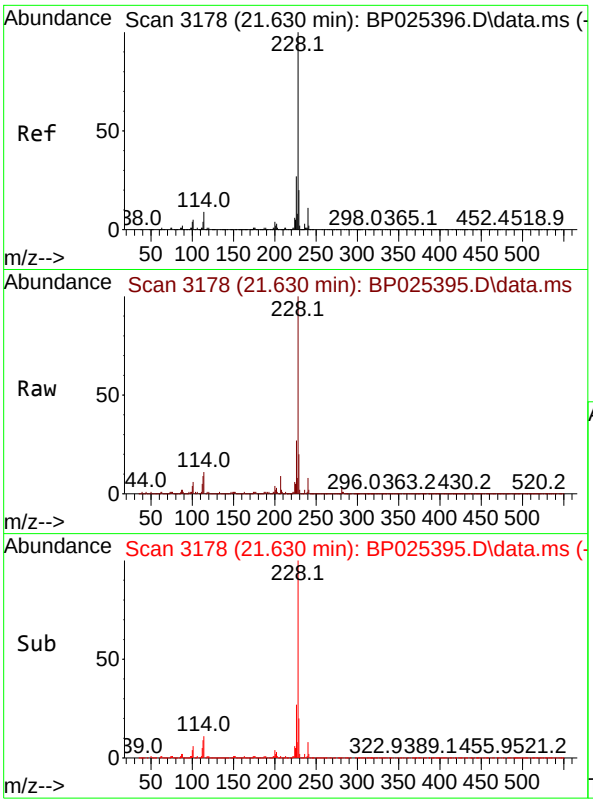


#80
Butylbenzylphthalate
Concen: 20.081 ng
RT: 20.666 min Scan# 3014
Delta R.T. 0.018 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:149 Resp: 504019

Ion	Ratio	Lower	Upper
149	100		
91	64.4	54.2	81.2
206	20.9	16.6	24.8



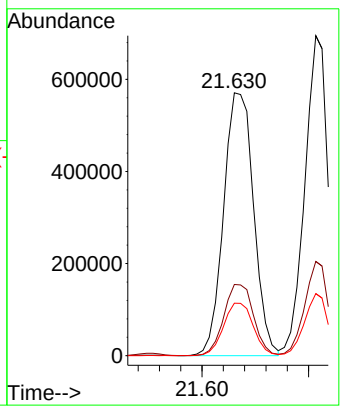


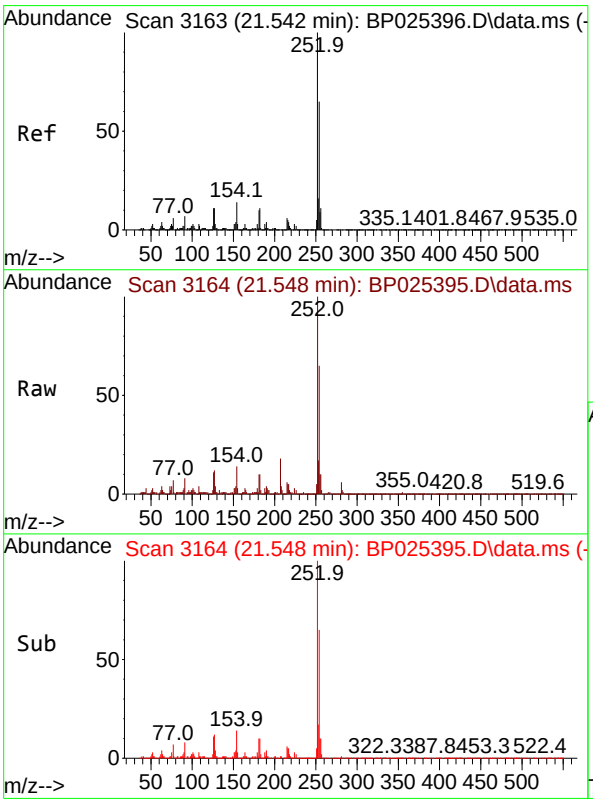
#81
Benzo(a)anthracene
Concen: 19.906 ng
RT: 21.630 min Scan# 3
Delta R.T. 0.000 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:228 Resp: 1118590

Ion	Ratio	Lower	Upper
228	100		
226	27.1	21.7	32.5
229	19.9	15.6	23.4

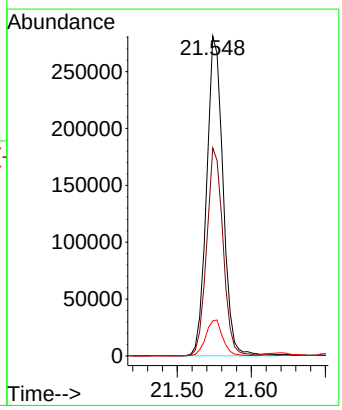


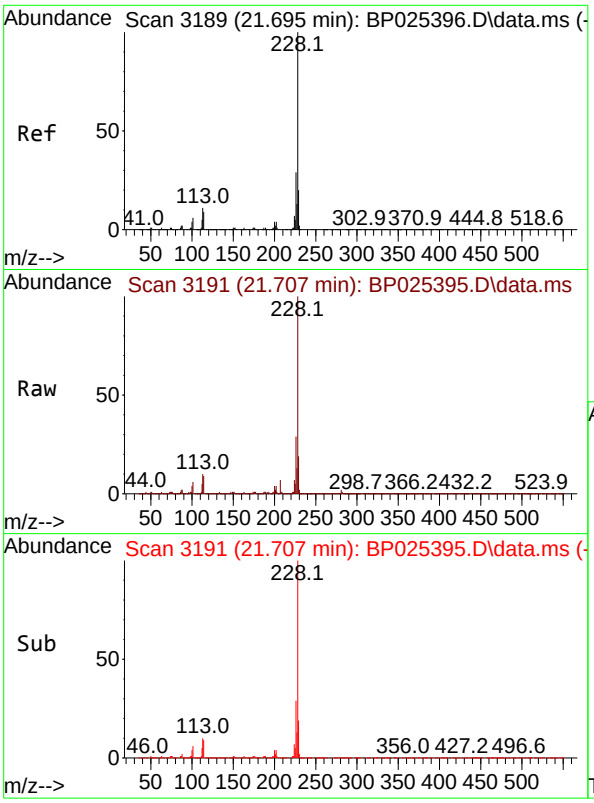


#82
3,3'-Dichlorobenzidine
Concen: 20.399 ng
RT: 21.548 min Scan# 3164
Delta R.T. 0.006 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:252 Resp: 432075

Ion	Ratio	Lower	Upper
252	100		
254	65.0	51.8	77.6
126	10.9	9.1	13.7



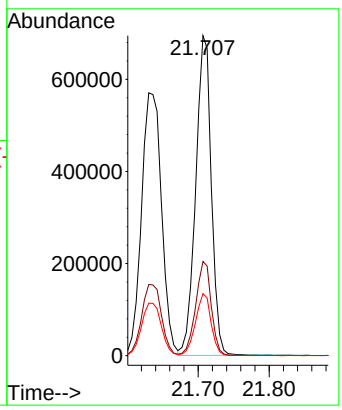


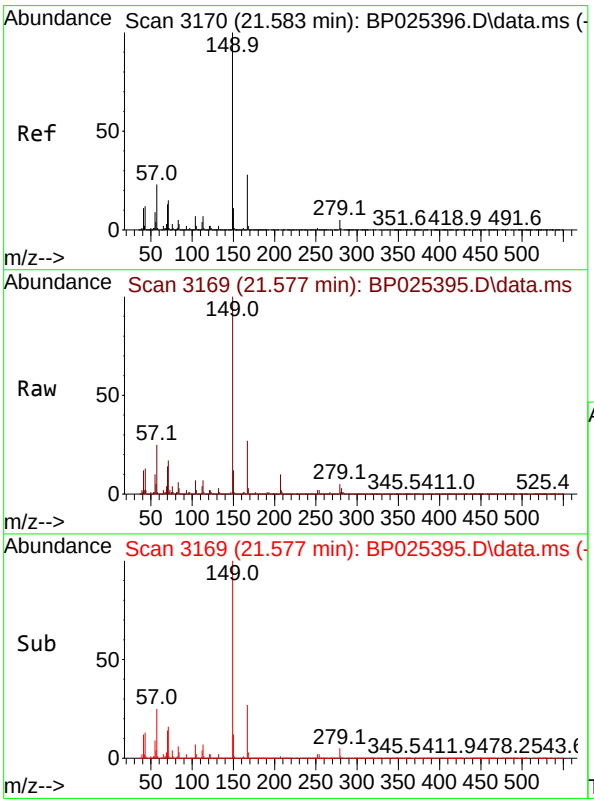
#83
Chrysene
Concen: 20.216 ng
RT: 21.707 min Scan# 3
Delta R.T. 0.012 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:228 Resp: 1063898

Ion	Ratio	Lower	Upper
228	100		
226	29.4	23.2	34.8
229	19.4	15.6	23.4

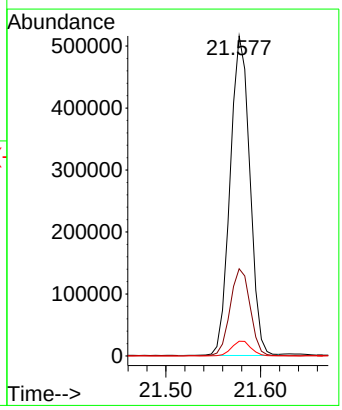


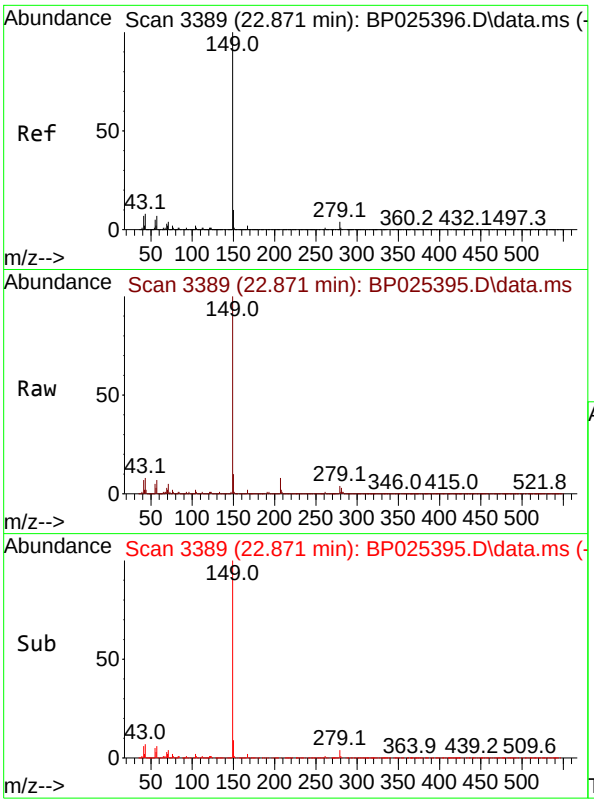


#84
Bis(2-ethylhexyl)phthalate
Concen: 20.155 ng
RT: 21.577 min Scan# 3169
Delta R.T. -0.006 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:149 Resp: 744704

Ion	Ratio	Lower	Upper
149	100		
167	27.3	22.1	33.1
279	4.6	3.8	5.6



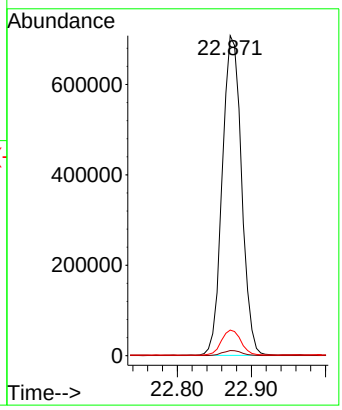


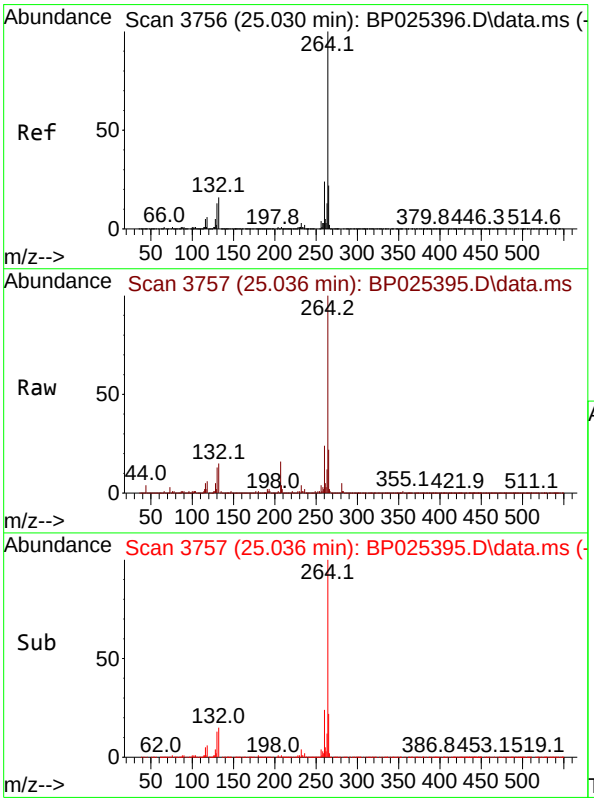
#85
Di-n-octyl phthalate
Concen: 20.091 ng
RT: 22.871 min Scan# 3
Delta R.T. 0.000 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:149 Resp: 1276798

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	7.9	6.3	9.5

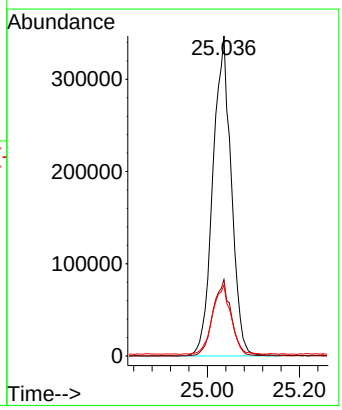


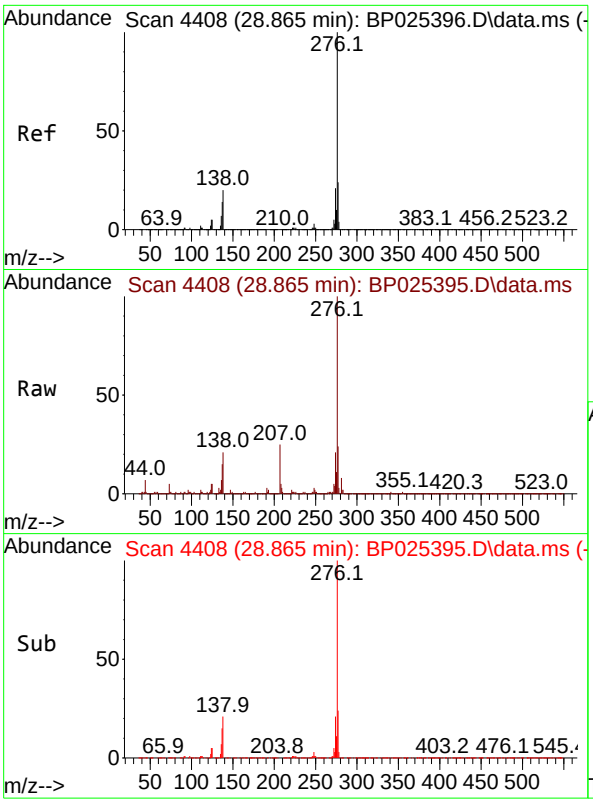


#86
Perylene-d12
Concen: 20.000 ng
RT: 25.036 min Scan# 3757
Delta R.T. 0.006 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:264 Resp: 958651

Ion	Ratio	Lower	Upper
264	100		
260	23.8	19.3	28.9
265	22.2	17.4	26.0



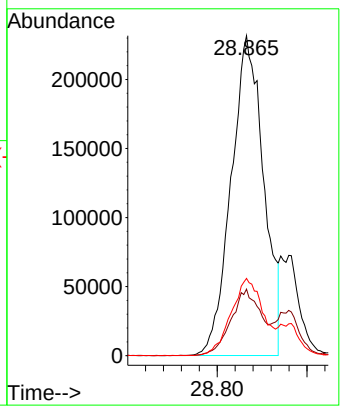


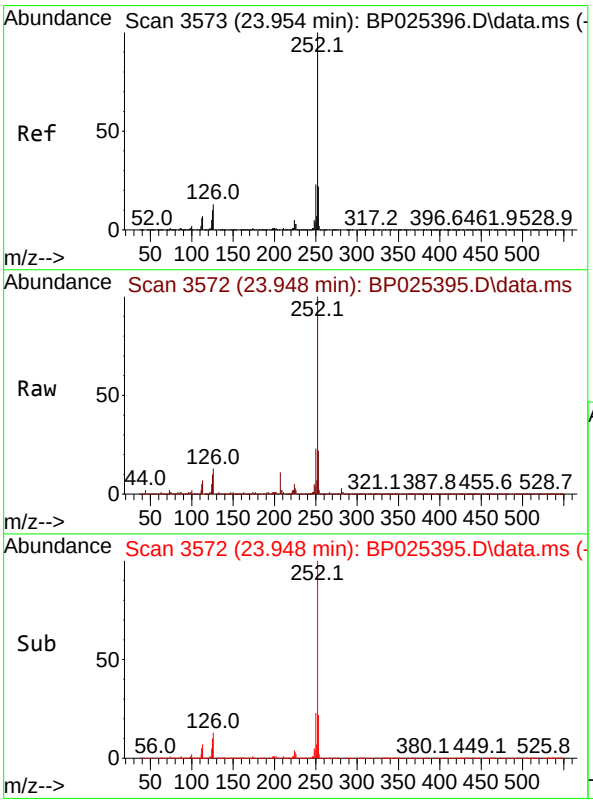
#87
Indeno(1,2,3-cd)pyrene
Concen: 16.584 ng
RT: 28.865 min Scan# 4
Delta R.T. 0.000 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:276 Resp: 1166289

Ion	Ratio	Lower	Upper
276	100		
138	19.2	12.9	19.3
277	23.8	17.0	25.6

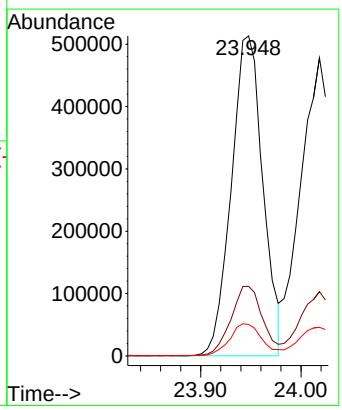


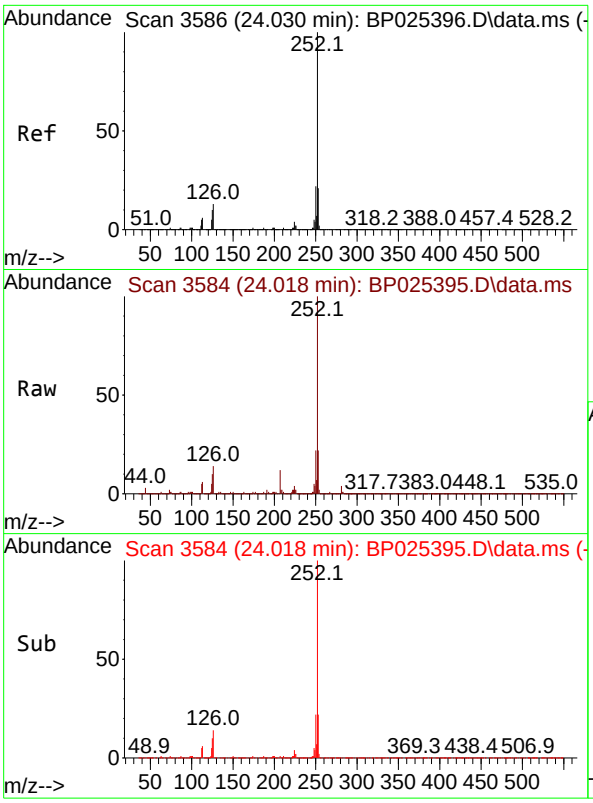


#88
Benzo(b)fluoranthene
Concen: 19.855 ng
RT: 23.948 min Scan# 3572
Delta R.T. -0.006 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:252 Resp: 1122408

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.7	26.5
125	9.9	7.9	11.9



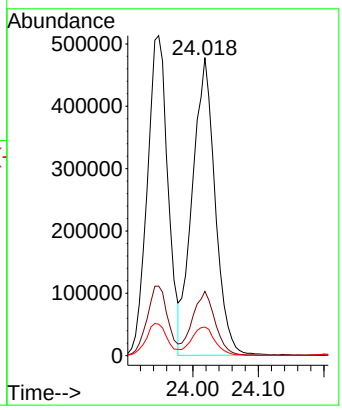


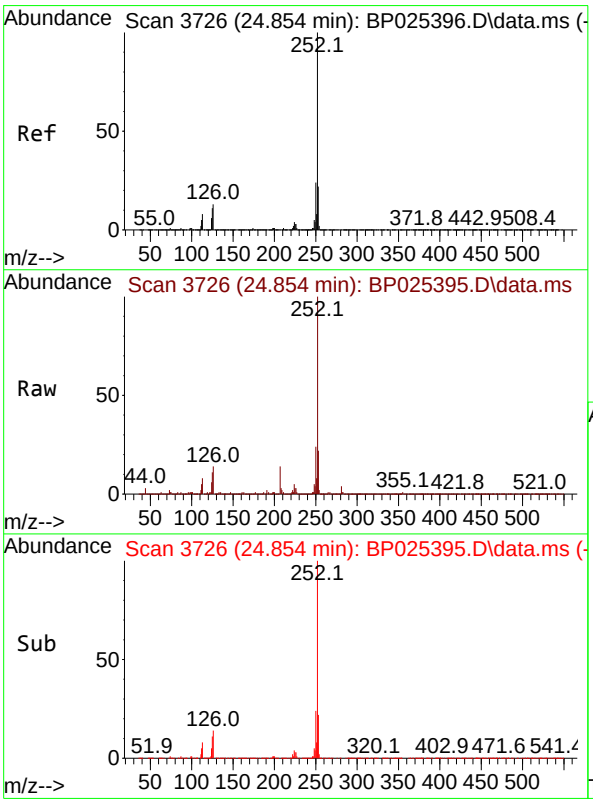
#89
Benzo(k)fluoranthene
Concen: 20.336 ng
RT: 24.018 min Scan# 3
Delta R.T. -0.012 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:252 Resp: 1150366

Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.1	25.7
125	9.6	7.8	11.6

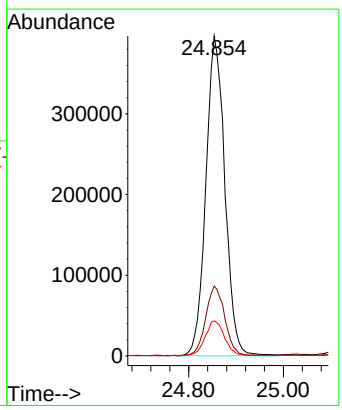


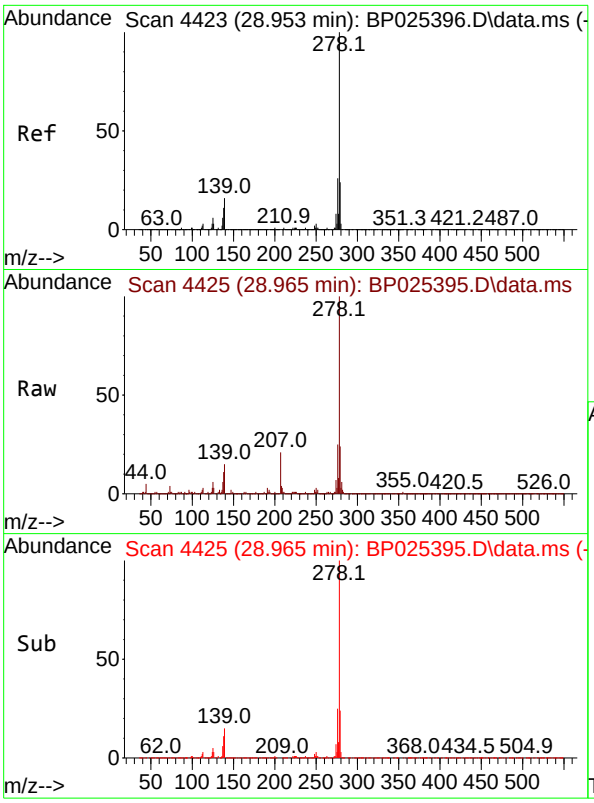


#90
Benzo(a)pyrene
Concen: 20.041 ng
RT: 24.854 min Scan# 3726
Delta R.T. 0.000 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:252 Resp: 1102804

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.5	26.3
125	10.9	8.7	13.1



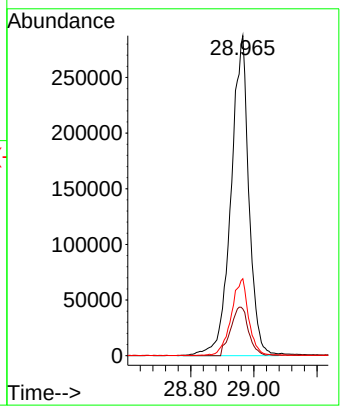


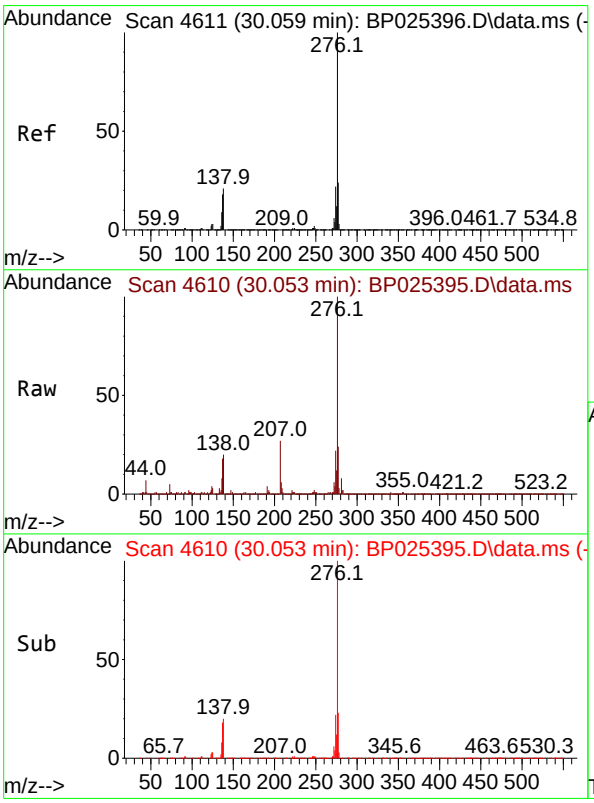
#91
Dibenzo(a,h)anthracene
Concen: 19.672 ng
RT: 28.965 min Scan# 4
Delta R.T. 0.012 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:278 Resp: 1130209

Ion	Ratio	Lower	Upper
278	100		
139	14.6	13.0	19.4
279	24.1	19.4	29.2

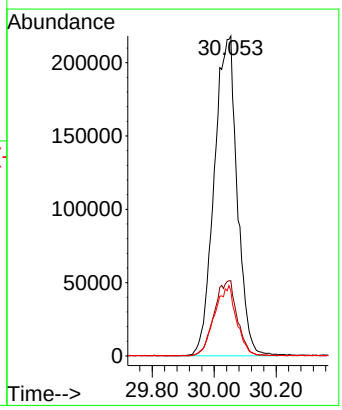




#92
Benzo(g,h,i)perylene
Concen: 19.840 ng
RT: 30.053 min Scan# 4610
Delta R.T. -0.006 min
Lab File: BP025395.D
Acq: 14 Aug 2025 14:38

Tgt Ion:276 Resp: 1120307

Ion	Ratio	Lower	Upper
276	100		
277	23.5	19.4	29.0
138	20.4	16.7	25.1



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081425\
Data File : BP025396.D
Acq On : 14 Aug 2025 15:19
Operator : CG/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Quant Time: Aug 14 17:55:59 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 17:44:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.796	152	157704	20.000	ng	0.00
21) Naphthalene-d8	10.560	136	663553	20.000	ng	0.00
39) Acenaphthene-d10	14.407	164	441110	20.000	ng	0.00
64) Phenanthrene-d10	17.201	188	884529	20.000	ng	0.00
76) Chrysene-d12	21.648	240	899207	20.000	ng	0.00
86) Perylene-d12	25.030	264	1022138	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.408	112	733191	77.209	ng	0.00
7) Phenol-d6	6.966	99	954285	78.381	ng	0.00
23) Nitrobenzene-d5	8.937	82	1015557	77.420	ng	0.00
42) 2,4,6-Tribromophenol	15.913	330	463783	78.112	ng	0.00
45) 2-Fluorobiphenyl	13.019	172	2456787	76.118	ng	0.00
79) Terphenyl-d14	19.919	244	3760236	76.508	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.337	88	140326	37.726	ng	100
3) Pyridine	3.731	79	384936	37.809	ng	100
4) n-Nitrosodimethylamine	3.637	42	161267	38.421	ng	100
6) Aniline	7.125	93	637156	38.842	ng	100
8) 2-Chlorophenol	7.366	128	414233	38.655	ng	100
9) Benzaldehyde	6.943	77	430704	50.493	ng	100
10) Phenol	6.996	94	496755	38.884	ng	100
11) bis(2-Chloroethyl)ether	7.219	93	385335	38.698	ng	100
12) 1,3-Dichlorobenzene	7.684	146	455200	38.523	ng	100
13) 1,4-Dichlorobenzene	7.831	146	462800	38.319	ng	100
14) 1,2-Dichlorobenzene	8.143	146	451306	38.602	ng	100
15) Benzyl Alcohol	8.025	79	376323	38.901	ng	100
16) 2,2'-oxybis(1-Chloropr...	8.313	45	510991	38.308	ng	100
17) 2-Methylphenol	8.225	107	349313	39.369	ng	100
18) Hexachloroethane	8.866	117	171906	38.712	ng	100
19) n-Nitroso-di-n-propyla...	8.590	70	312773	38.737	ng	100
20) 3+4-Methylphenols	8.549	107	481148	39.121	ng	100
22) Acetophenone	8.601	105	644124	38.708	ng	100
24) Nitrobenzene	8.972	77	457175	38.997	ng	100
25) Isophorone	9.501	82	893987	38.510	ng	100
26) 2-Nitrophenol	9.678	139	239675	39.837	ng	100
27) 2,4-Dimethylphenol	9.743	122	408572	39.489	ng	100
28) bis(2-Chloroethoxy)met...	9.972	93	540282	38.502	ng	100
29) 2,4-Dichlorophenol	10.213	162	405233	39.427	ng	100
30) 1,2,4-Trichlorobenzene	10.425	180	434105	38.529	ng	100
31) Naphthalene	10.613	128	1326839	38.472	ng	100
32) Benzoic acid	9.872	122	301281	39.537	ng	100
33) 4-Chloroaniline	10.713	127	599466	39.350	ng	100
34) Hexachlorobutadiene	10.901	225	271549	38.700	ng	100
35) Caprolactam	11.495	113	145175	38.520	ng	100
36) 4-Chloro-3-methylphenol	11.837	107	459473	38.959	ng	100
37) 2-Methylnaphthalene	12.219	142	865427	38.559	ng	100
38) 1-Methylnaphthalene	12.437	142	909865	38.120	ng	100
40) 1,2,4,5-Tetrachloroben...	12.590	216	494141	38.787	ng	100
41) Hexachlorocyclopentadiene	12.572	237	307015	39.896	ng	100
43) 2,4,6-Trichlorophenol	12.825	196	337157	39.201	ng	100

Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081425\
Data File : BP025396.D
Acq On : 14 Aug 2025 15:19
Operator : CG/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Quant Time: Aug 14 17:55:59 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 17:44:43 2025
Response via : Initial Calibration

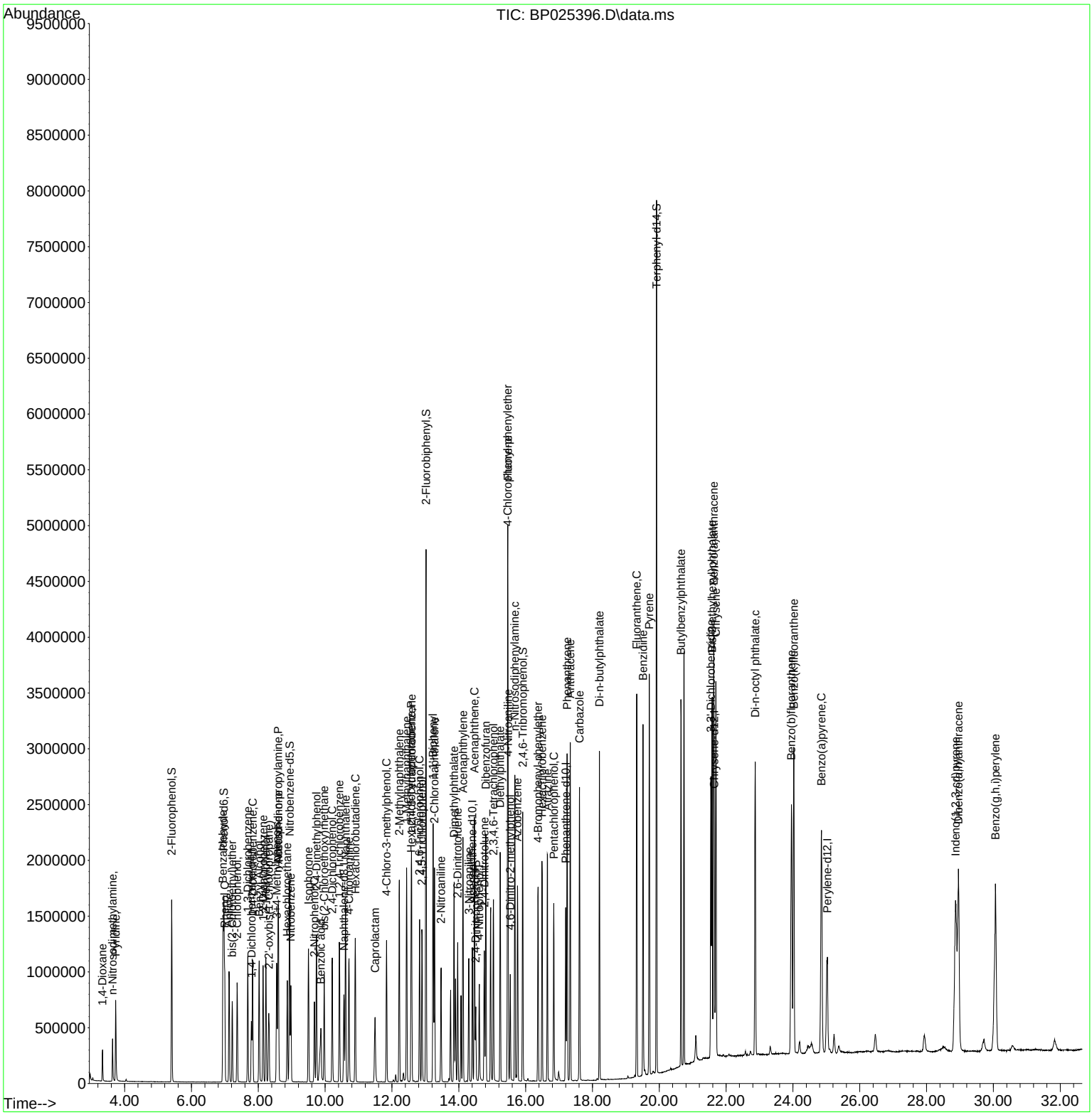
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.895	196	373880	39.664	ng	100
46) 1,1'-Biphenyl	13.231	154	1242247	38.777	ng	100
47) 2-Chloronaphthalene	13.272	162	970903	38.930	ng	100
48) 2-Nitroaniline	13.472	65	291341	40.092	ng	100
49) Acenaphthylene	14.125	152	1593636	38.617	ng	100
50) Dimethylphthalate	13.860	163	1237666	38.316	ng	100
51) 2,6-Dinitrotoluene	13.966	165	272750	40.061	ng	100
52) Acenaphthene	14.466	154	918569	37.921	ng	100
53) 3-Nitroaniline	14.301	138	301417	39.349	ng	100
54) 2,4-Dinitrophenol	14.507	184	144100	39.633	ng	100
55) Dibenzofuran	14.807	168	1479220	38.624	ng	100
56) 4-Nitrophenol	14.613	139	246542	39.168	ng	100
57) 2,4-Dinitrotoluene	14.766	165	386189	39.757	ng	100
58) Fluorene	15.466	166	1151825	38.115	ng	100
59) 2,3,4,6-Tetrachlorophenol	15.036	232	324396	38.975	ng	100
60) Diethylphthalate	15.236	149	1264740	38.533	ng	100
61) 4-Chlorophenyl-phenyle...	15.460	204	574546	38.228	ng	100
62) 4-Nitroaniline	15.478	138	309740	39.443	ng	100
63) Azobenzene	15.754	77	1091004	38.820	ng	100
65) 4,6-Dinitro-2-methylph...	15.542	198	217153	39.384	ng	100
66) n-Nitrosodiphenylamine	15.678	169	1045170	38.749	ng	100
67) 4-Bromophenyl-phenylether	16.372	248	376864	38.739	ng	100
68) Hexachlorobenzene	16.489	284	428361	37.986	ng	100
69) Atrazine	16.654	200	386256	38.238	ng	100
70) Pentachlorophenol	16.842	266	278412	39.110	ng	100
71) Phenanthrene	17.242	178	1839191	37.851	ng	100
72) Anthracene	17.336	178	1908189	38.456	ng	100
73) Carbazole	17.613	167	1781890	38.125	ng	100
74) Di-n-butylphthalate	18.207	149	2201043	38.277	ng	100
75) Fluoranthene	19.324	202	2172758	37.488	ng	100
77) Benzidine	19.513	184	1738926	56.665	ng	100
78) Pyrene	19.701	202	2290461	39.189	ng	100
80) Butylbenzylphthalate	20.648	149	1041998	39.338	ng	100
81) Benzo(a)anthracene	21.630	228	2280774	38.460	ng	100
82) 3,3'-Dichlorobenzidine	21.542	252	877708	39.266	ng	100
83) Chrysene	21.695	228	2125866	38.278	ng	100
84) Bis(2-ethylhexyl)phtha...	21.583	149	1493804	38.310	ng	100
85) Di-n-octyl phthalate	22.871	149	2597558	38.730	ng	100
87) Indeno(1,2,3-cd)pyrene	28.865	276	2490737	33.216	ng	93
88) Benzo(b)fluoranthene	23.954	252	2318198	38.462	ng	100
89) Benzo(k)fluoranthene	24.030	252	2309091	38.285	ng	100
90) Benzo(a)pyrene	24.854	252	2265862	38.620	ng	100
91) Dibenzo(a,h)anthracene	28.953	278	2363840	38.589	ng	100
92) Benzo(g,h,i)perylene	30.059	276	2327292	38.654	ng	100

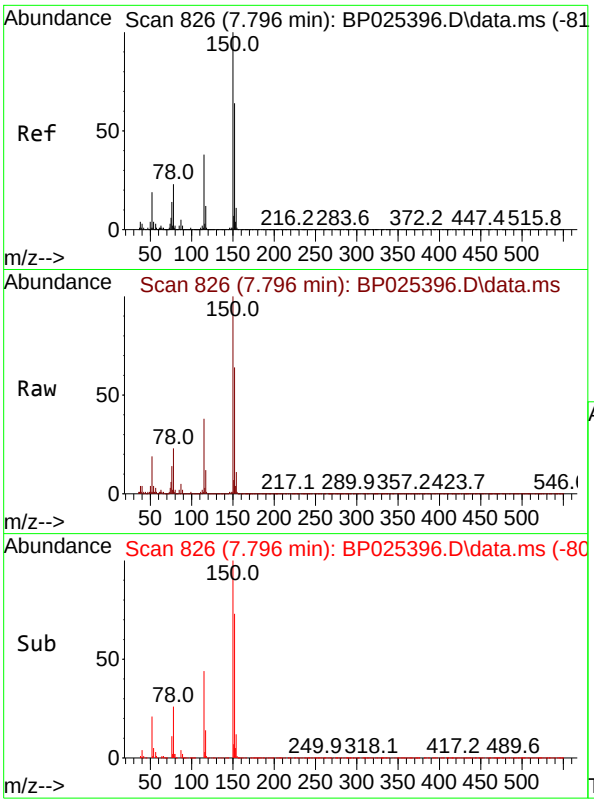
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081425\
Data File : BP025396.D
Acq On : 14 Aug 2025 15:19
Operator : CG/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Quant Time: Aug 14 17:55:59 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 17:44:43 2025
Response via : Initial Calibration



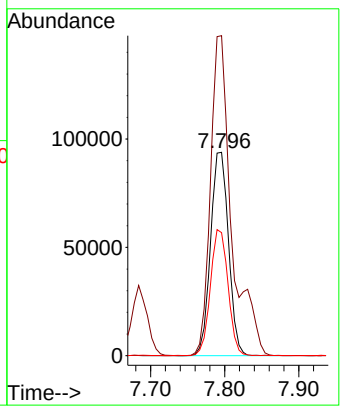


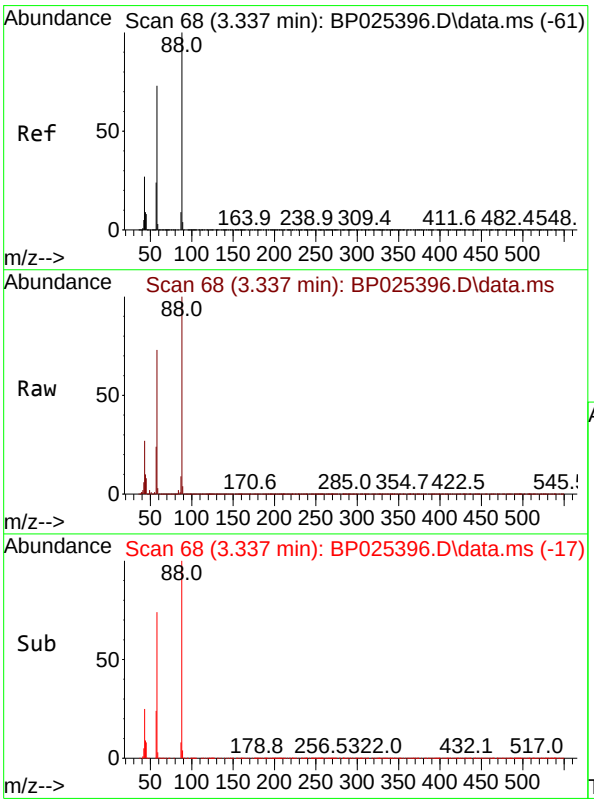
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.796 min Scan# 8
Delta R.T. -0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:152 Resp: 157704

Ion	Ratio	Lower	Upper
152	100		
150	157.4	125.9	188.9
115	60.6	48.5	72.7

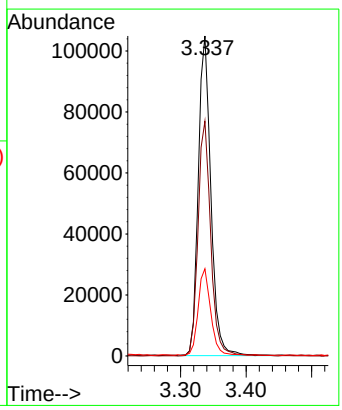


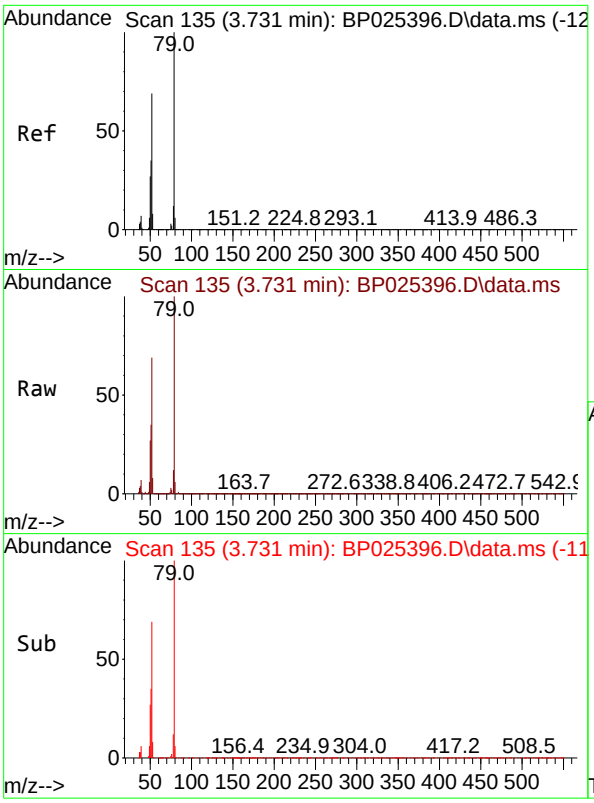


#2
1,4-Dioxane
Concen: 37.726 ng
RT: 3.337 min Scan# 68
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion: 88 Resp: 140326

Ion	Ratio	Lower	Upper
88	100		
58	74.0	59.2	88.8
43	27.1	21.7	32.5



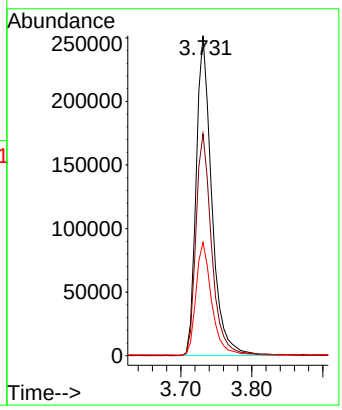


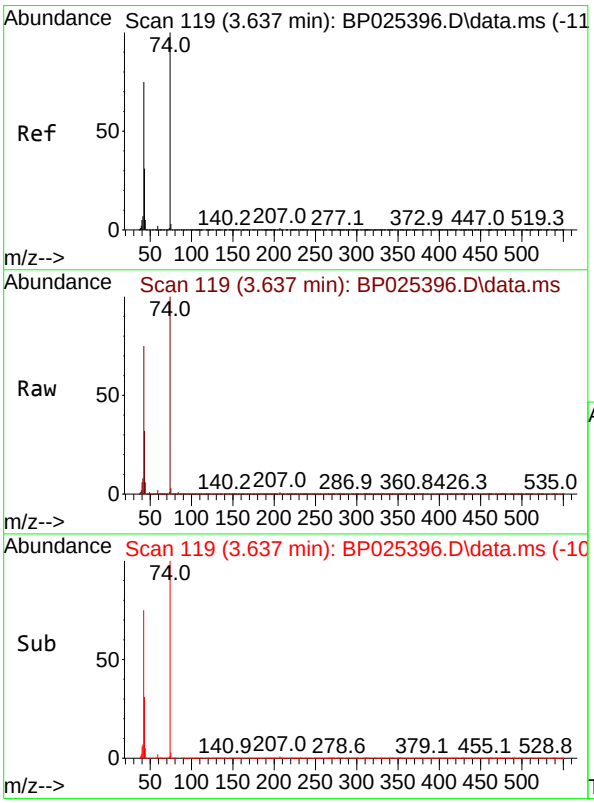
#3
Pyridine
Concen: 37.809 ng
RT: 3.731 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion: 79 Resp: 384936

Ion	Ratio	Lower	Upper
79	100		
52	69.4	55.5	83.3
51	35.4	28.3	42.5

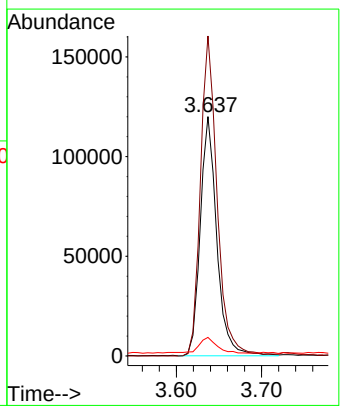


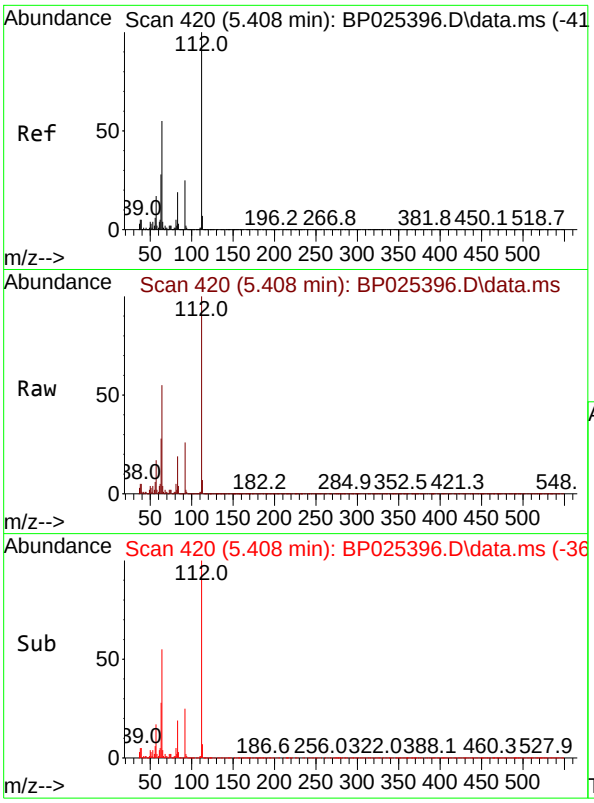


#4
n-Nitrosodimethylamine
Concen: 38.421 ng
RT: 3.637 min Scan# 119
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion: 42 Resp: 161267

Ion	Ratio	Lower	Upper
42	100		
74	133.7	107.0	160.4
44	7.8	6.2	9.4



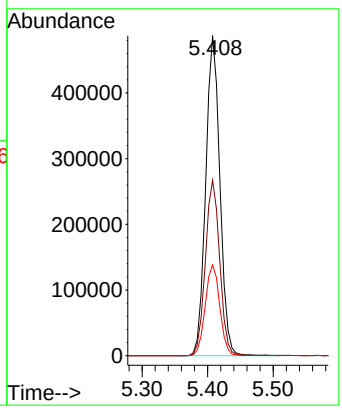


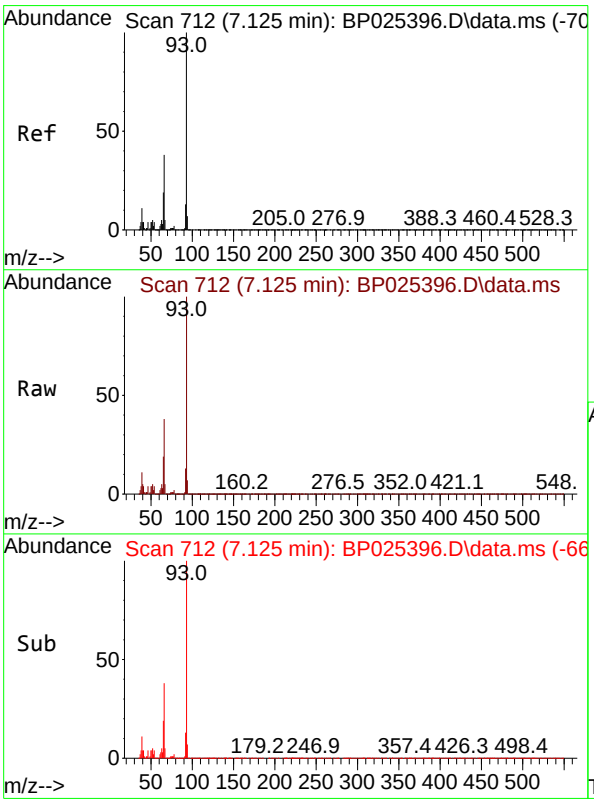
#5
2-Fluorophenol
Concen: 77.209 ng
RT: 5.408 min Scan# 4
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:112 Resp: 733191

Ion	Ratio	Lower	Upper
112	100		
64	54.8	43.8	65.8
63	28.4	22.7	34.1

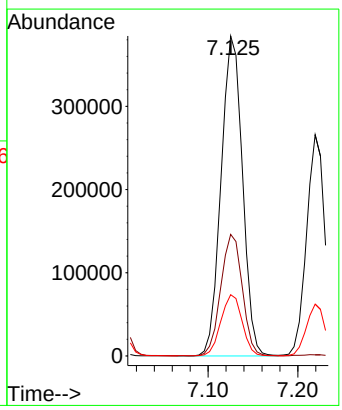


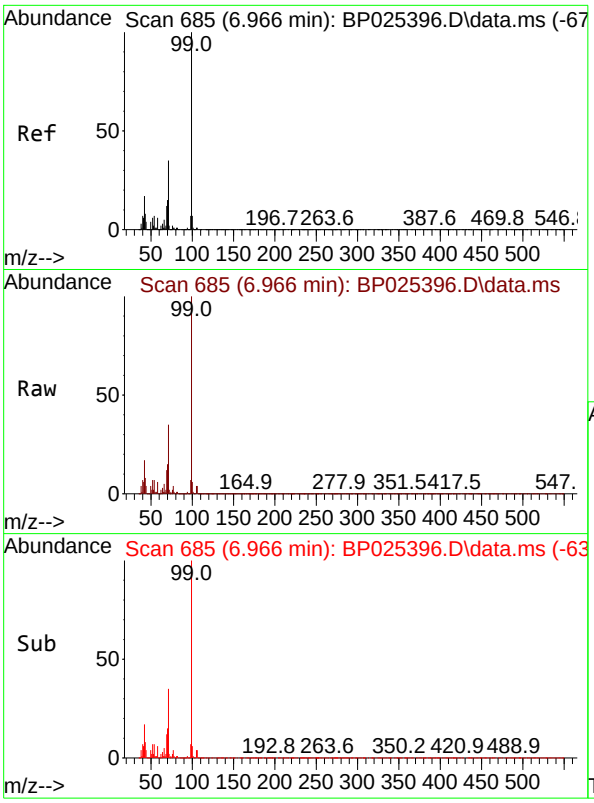


#6
Aniline
Concen: 38.842 ng
RT: 7.125 min Scan# 712
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion: 93 Resp: 637156

Ion	Ratio	Lower	Upper
93	100		
66	38.0	30.4	45.6
65	19.1	15.3	22.9



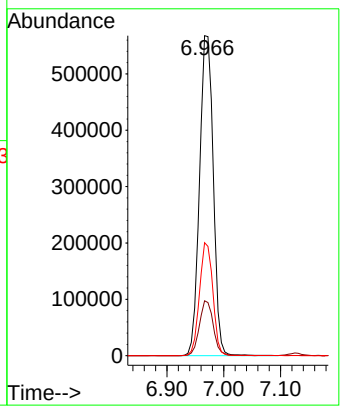


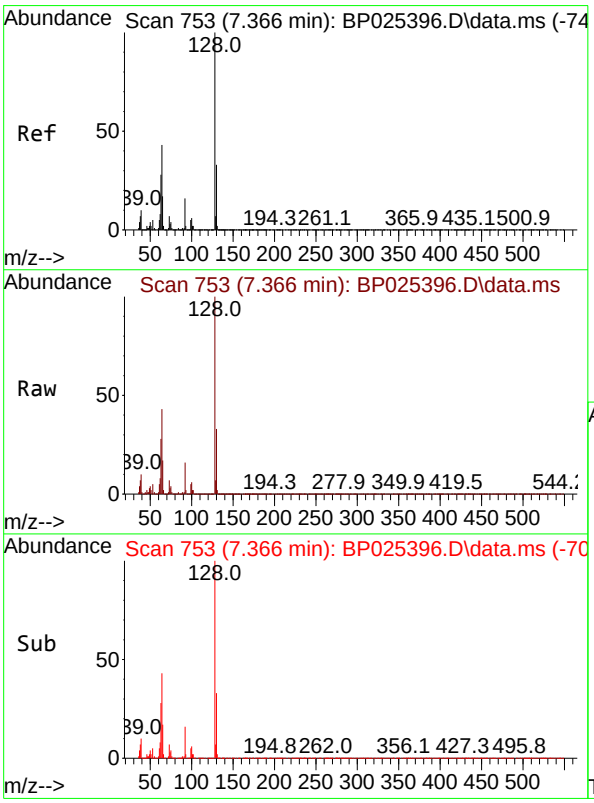
#7
Phenol-d6
Concen: 78.381 ng
RT: 6.966 min Scan# 6
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion: 99 Resp: 954285

Ion	Ratio	Lower	Upper
99	100		
42	17.1	13.7	20.5
71	35.3	28.2	42.4

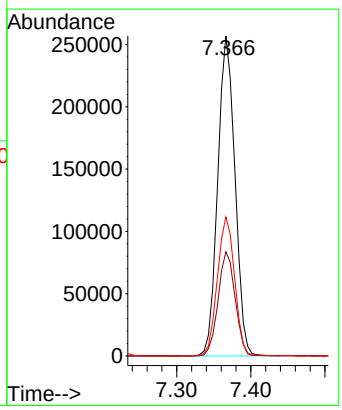


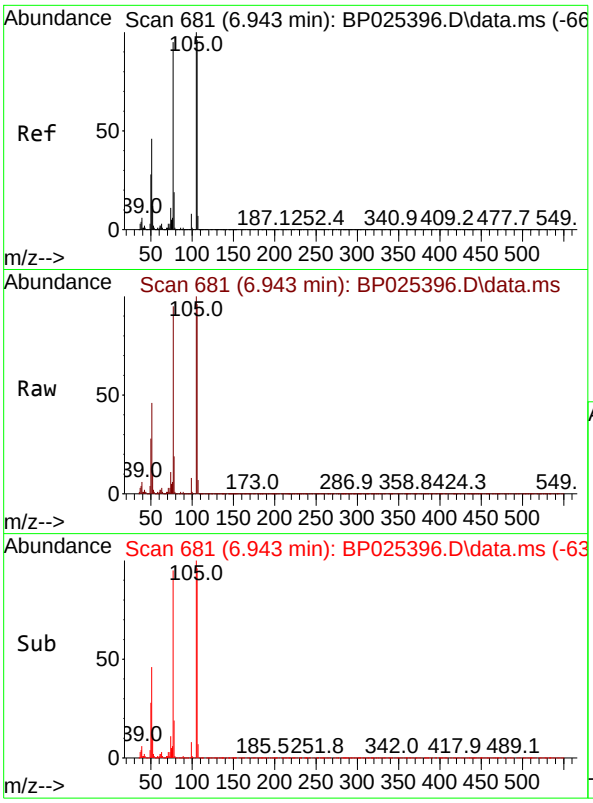


#8
2-Chlorophenol
Concen: 38.655 ng
RT: 7.366 min Scan# 753
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:128 Resp: 414233

Ion	Ratio	Lower	Upper
128	100		
130	32.6	12.6	52.6
64	43.4	23.4	63.4



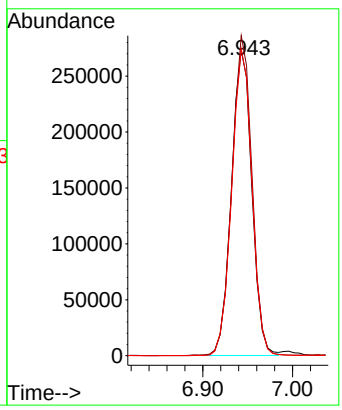


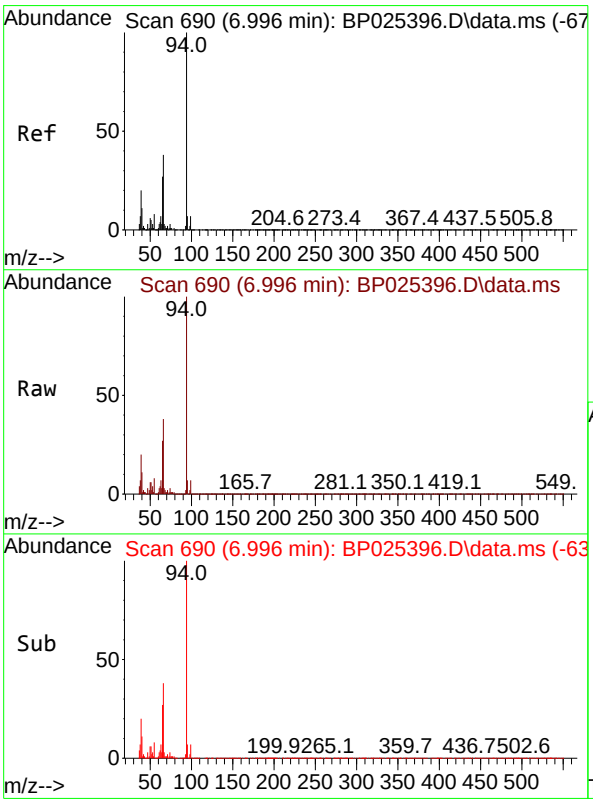
#9
Benzaldehyde
Concen: 50.493 ng
RT: 6.943 min Scan# 6
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion: 77 Resp: 430704

Ion	Ratio	Lower	Upper
77	100		
105	104.8	84.8	124.8
106	100.5	80.5	120.5

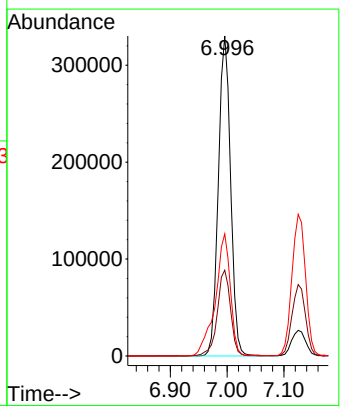


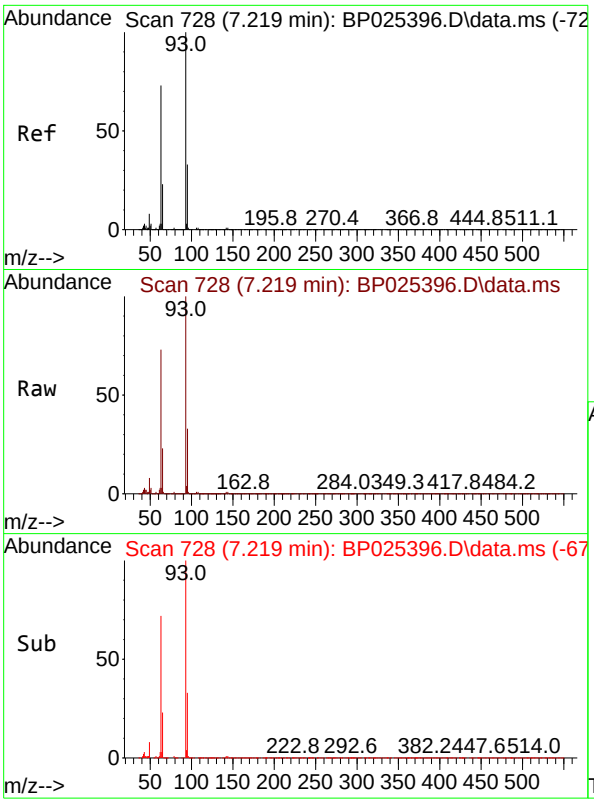


#10
Phenol
Concen: 38.884 ng
RT: 6.996 min Scan# 690
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion: 94 Resp: 496755

Ion	Ratio	Lower	Upper
94	100		
65	26.8	6.8	46.8
66	38.2	18.2	58.2



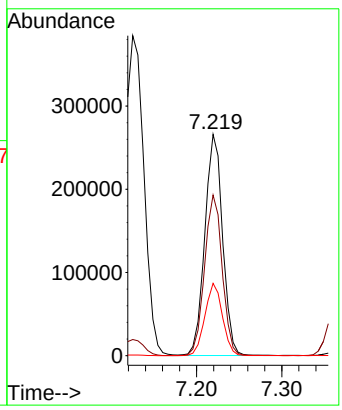


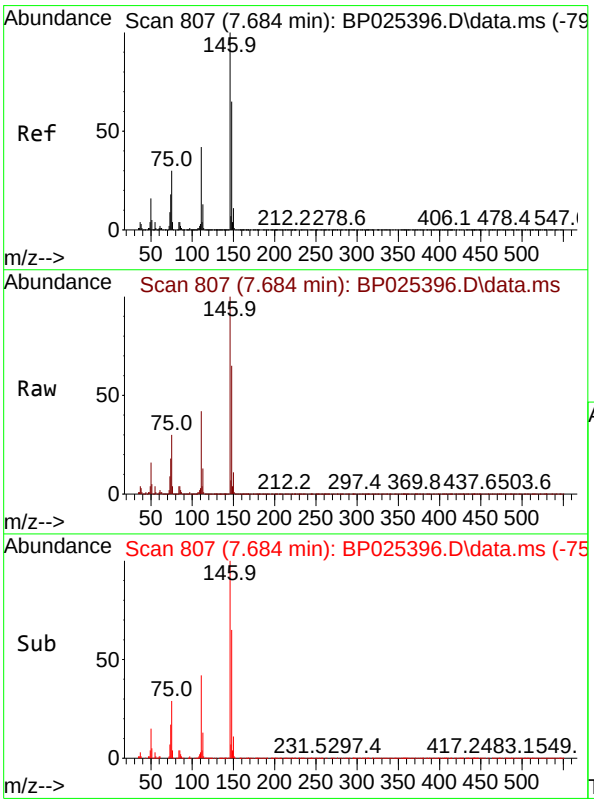
#11
bis(2-Chloroethyl)ether
Concen: 38.698 ng
RT: 7.219 min Scan# 7
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion: 93 Resp: 385335

Ion	Ratio	Lower	Upper
93	100		
63	72.6	52.6	92.6
95	32.7	12.7	52.7

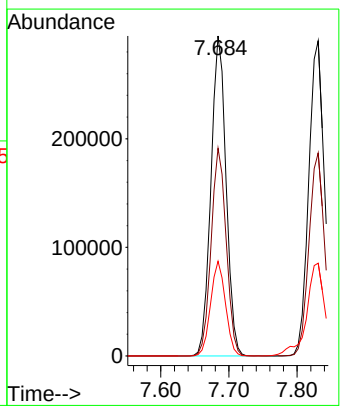


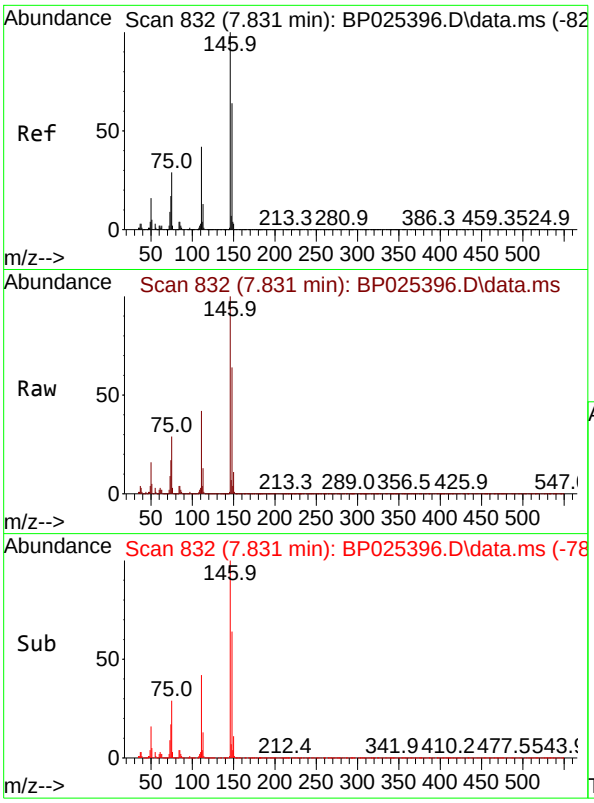


#12
1,3-Dichlorobenzene
Concen: 38.523 ng
RT: 7.684 min Scan# 807
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:146 Resp: 455200

Ion	Ratio	Lower	Upper
146	100		
148	64.9	51.9	77.9
75	29.6	23.7	35.5



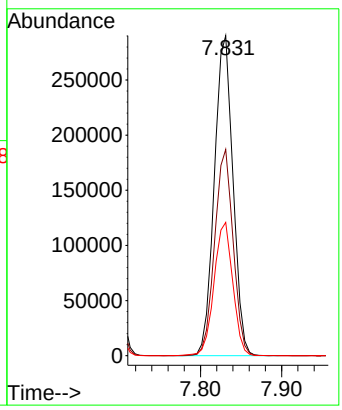


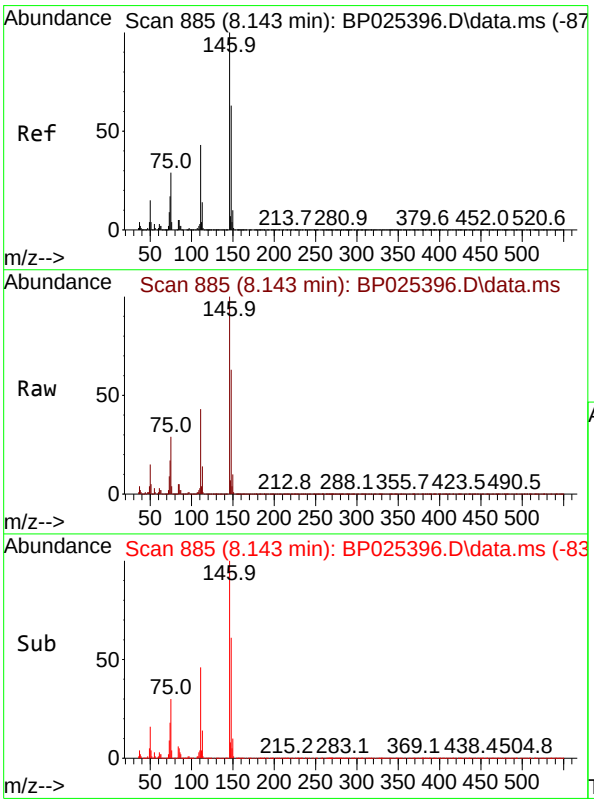
#13
1,4-Dichlorobenzene
Concen: 38.319 ng
RT: 7.831 min Scan# 8
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:146 Resp: 462800

Ion	Ratio	Lower	Upper
146	100		
148	64.5	51.6	77.4
111	41.7	33.4	50.0

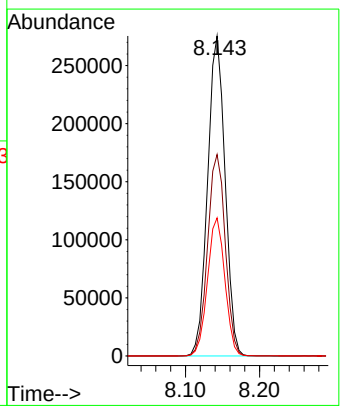


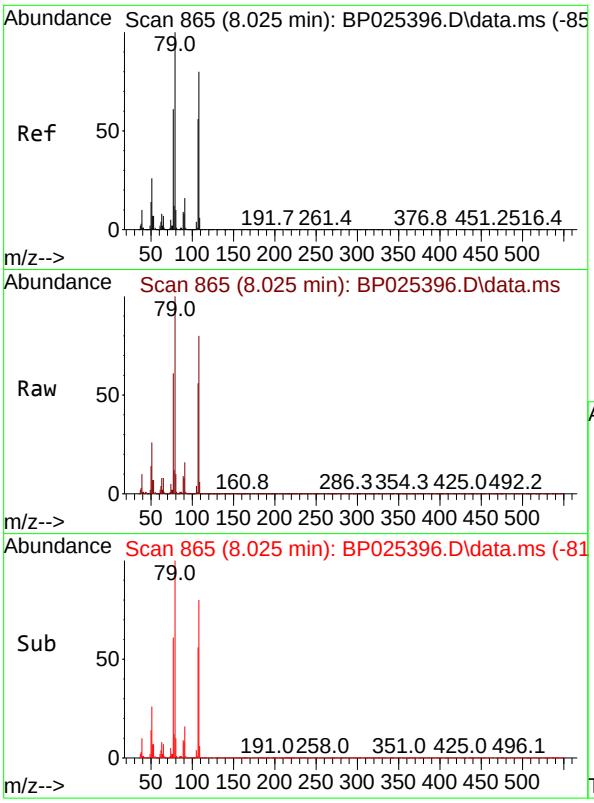


#14
1,2-Dichlorobenzene
Concen: 38.602 ng
RT: 8.143 min Scan# 885
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:146 Resp: 451306

Ion	Ratio	Lower	Upper
146	100		
148	63.0	50.4	75.6
111	43.1	34.5	51.7



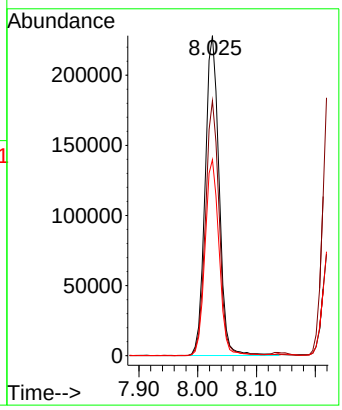


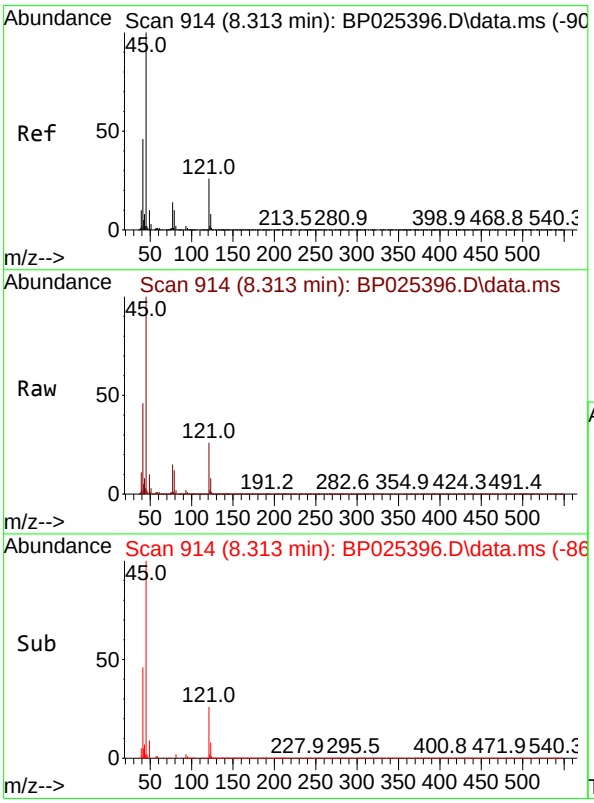
#15
Benzyl Alcohol
Concen: 38.901 ng
RT: 8.025 min Scan# 8
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion: 79 Resp: 376323

Ion	Ratio	Lower	Upper
79	100		
108	79.7	63.8	95.6
77	61.2	49.0	73.4

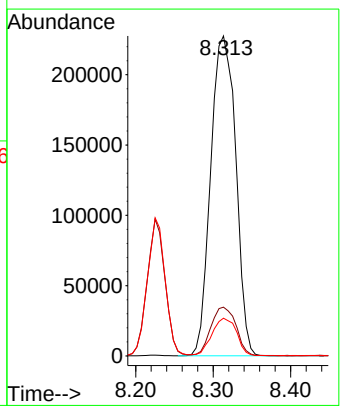


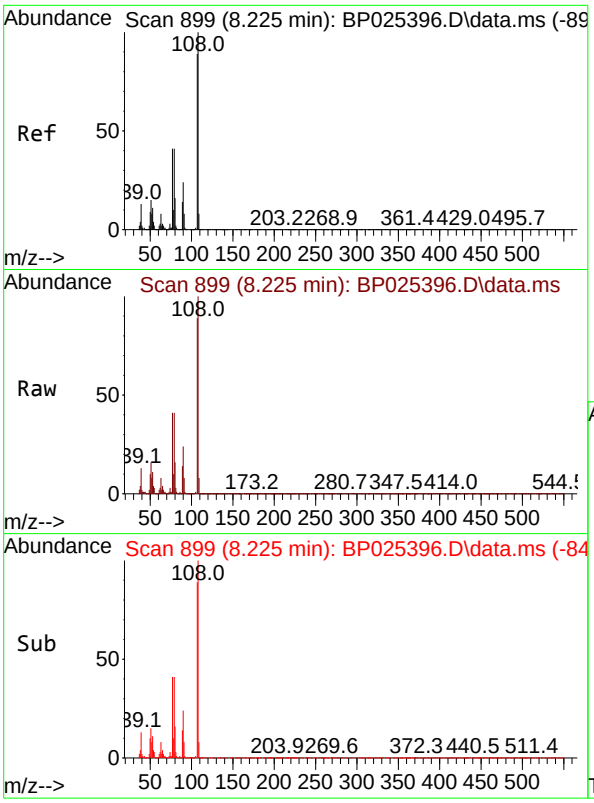


#16
2,2'-oxybis(1-Chloropropane)
Concen: 38.308 ng
RT: 8.313 min Scan# 914
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion: 45 Resp: 510991

Ion	Ratio	Lower	Upper
45	100		
77	15.3	0.0	35.3
79	11.8	0.0	31.8



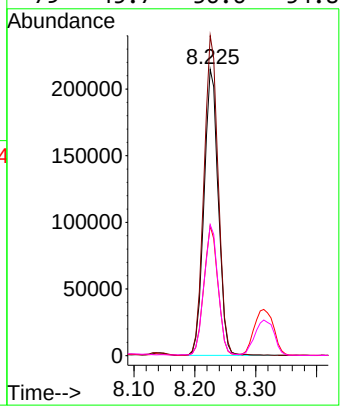


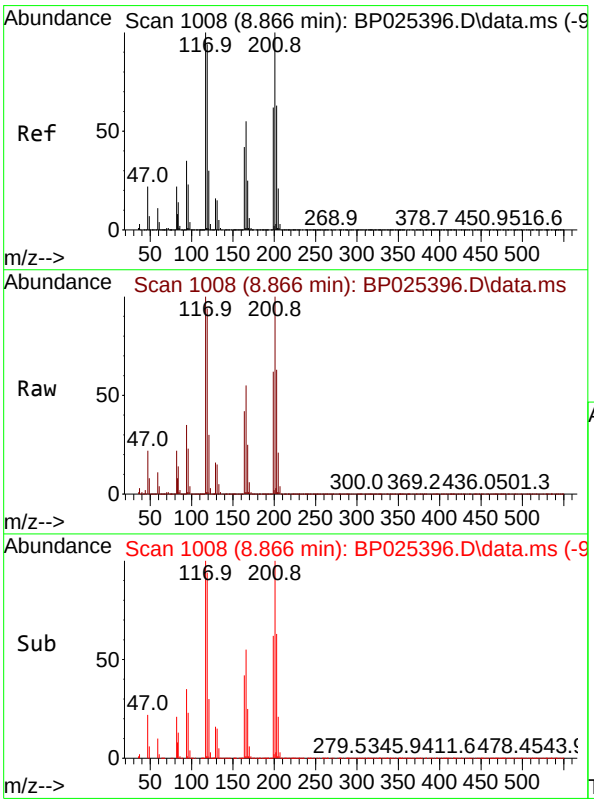
#17
2-Methylphenol
Concen: 39.369 ng
RT: 8.225 min Scan# 8
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:107 Resp: 349313

Ion	Ratio	Lower	Upper
107	100		
108	111.7	89.4	134.0
77	45.4	36.3	54.5
79	45.7	36.6	54.8

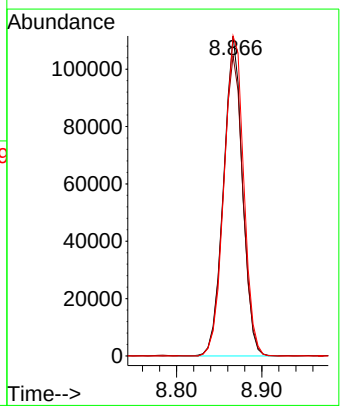


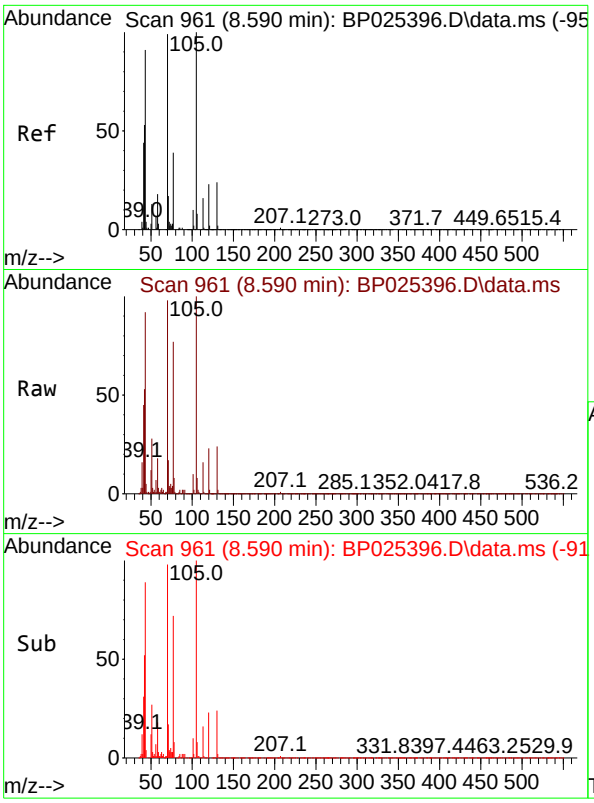


#18
Hexachloroethane
Concen: 38.712 ng
RT: 8.866 min Scan# 1008
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:117 Resp: 171906

Ion	Ratio	Lower	Upper
117	100		
119	93.9	75.1	112.7
201	100.1	80.1	120.1



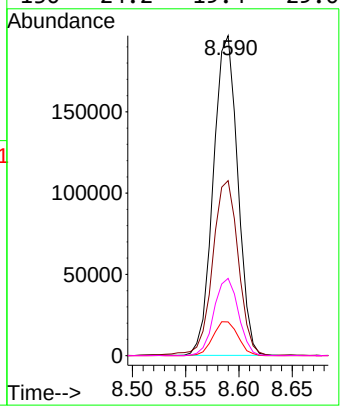


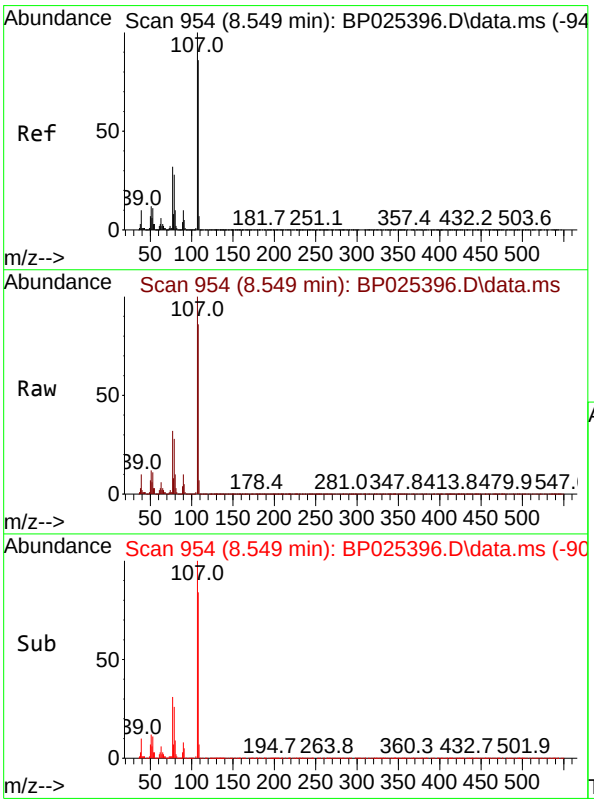
#19
n-Nitroso-di-n-propylamine
Concen: 38.737 ng
RT: 8.590 min Scan# 9
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion: 70 Resp: 312773

Ion	Ratio	Lower	Upper
70	100		
42	54.7	43.8	65.6
101	10.6	8.5	12.7
130	24.2	19.4	29.0

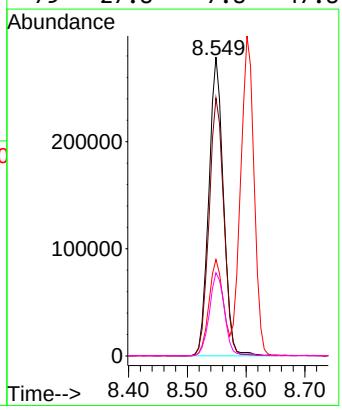


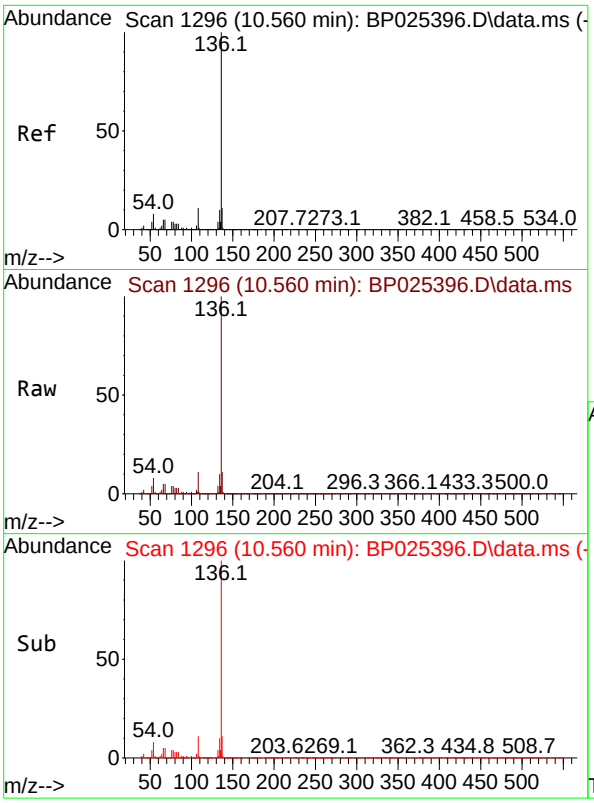


#20
3+4-Methylphenols
Concen: 39.121 ng
RT: 8.549 min Scan# 954
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:107 Resp: 481148

Ion	Ratio	Lower	Upper
107	100		
108	86.3	66.3	106.3
77	32.3	12.3	52.3
79	27.8	7.8	47.8



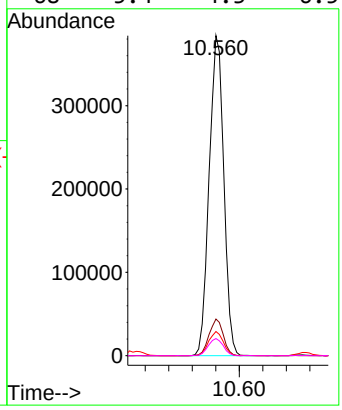


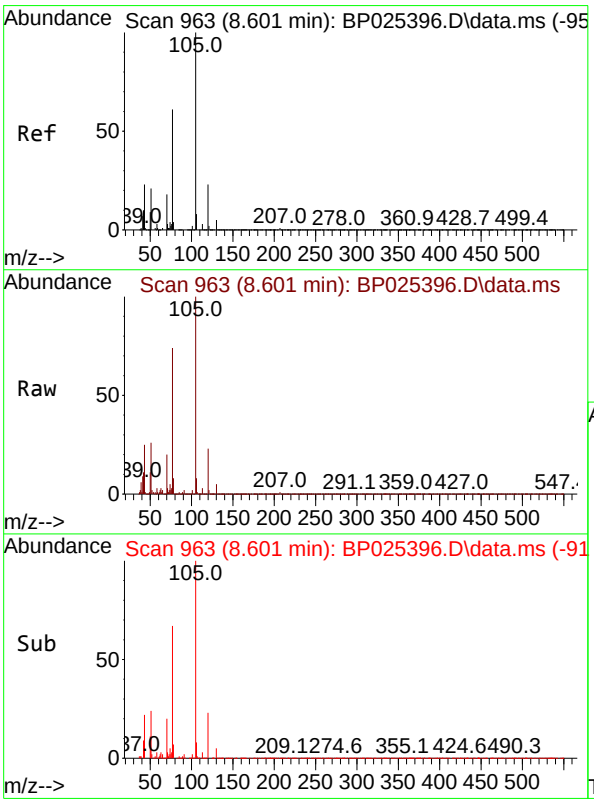
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.560 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:136 Resp: 663553

Ion	Ratio	Lower	Upper
136	100		
137	11.5	9.2	13.8
54	7.5	6.0	9.0
68	5.4	4.3	6.5

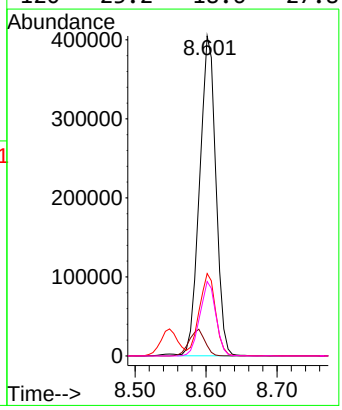


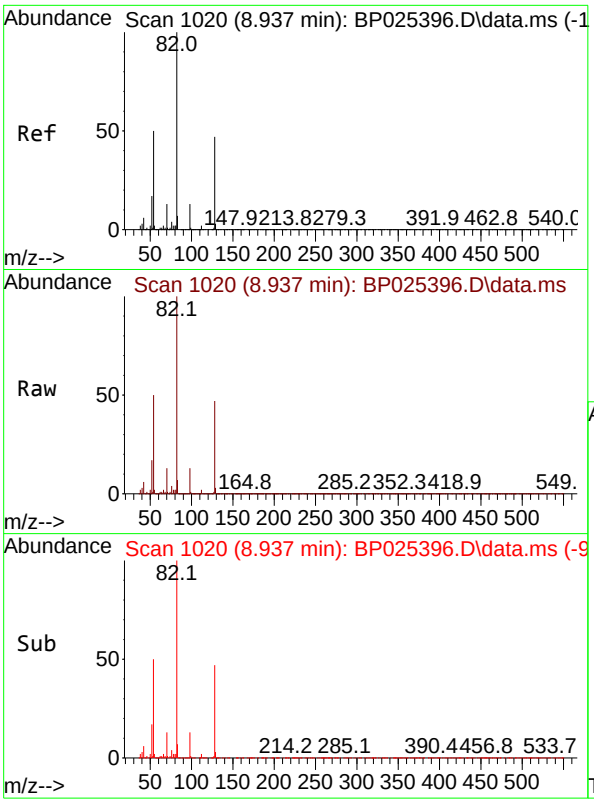


#22
Acetophenone
Concen: 38.708 ng
RT: 8.601 min Scan# 963
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:105 Resp: 644124

Ion	Ratio	Lower	Upper
105	100		
71	3.3	2.6	4.0
51	25.7	20.6	30.8
120	23.2	18.6	27.8



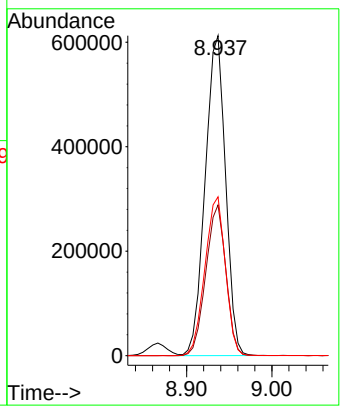


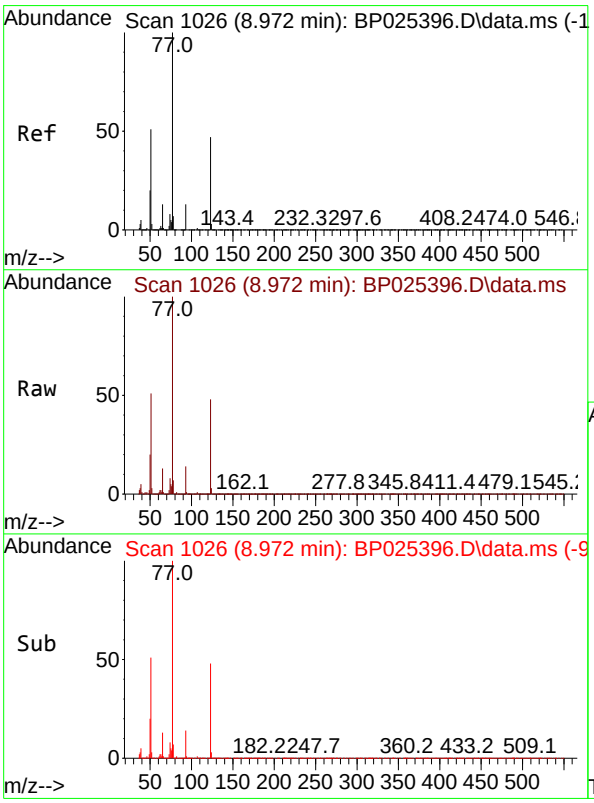
#23
Nitrobenzene-d5
Concen: 77.420 ng
RT: 8.937 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion: 82 Resp: 1015557

Ion	Ratio	Lower	Upper
82	100		
128	47.1	37.7	56.5
54	49.7	39.8	59.6

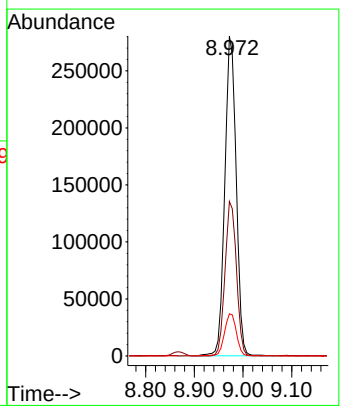


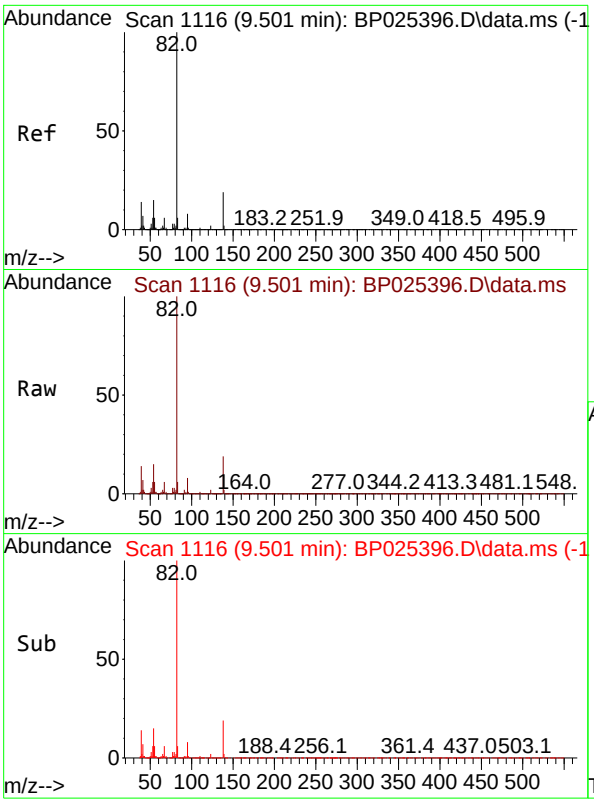


#24
Nitrobenzene
Concen: 38.997 ng
RT: 8.972 min Scan# 1026
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion: 77 Resp: 457175

Ion	Ratio	Lower	Upper
77	100		
123	48.3	38.6	58.0
65	13.2	10.6	15.8



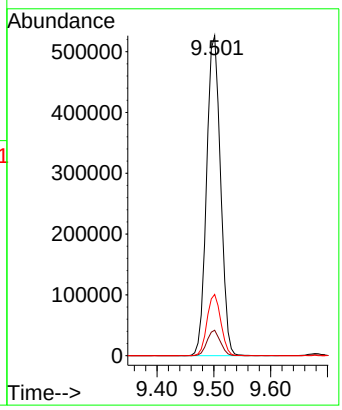


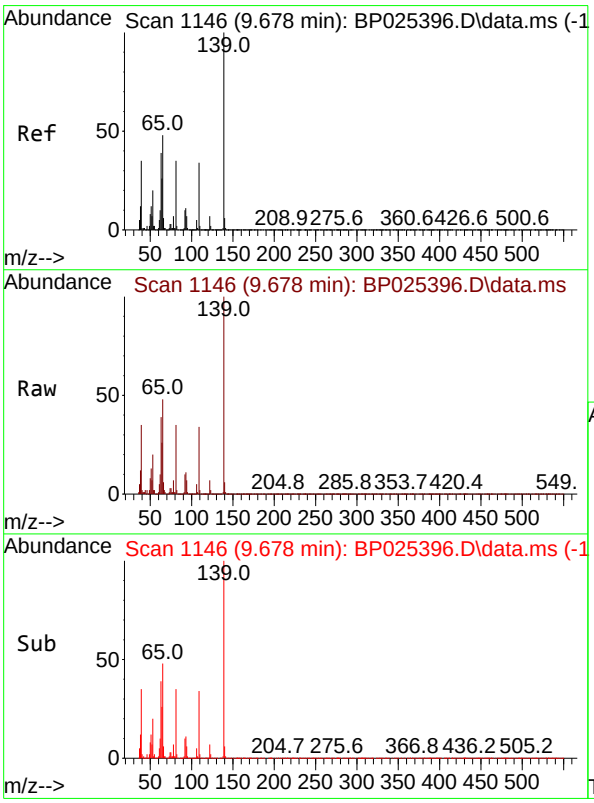
#25
Isophorone
Concen: 38.510 ng
RT: 9.501 min Scan# 11
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion: 82 Resp: 893987

Ion	Ratio	Lower	Upper
82	100		
95	8.0	6.4	9.6
138	19.2	15.4	23.0

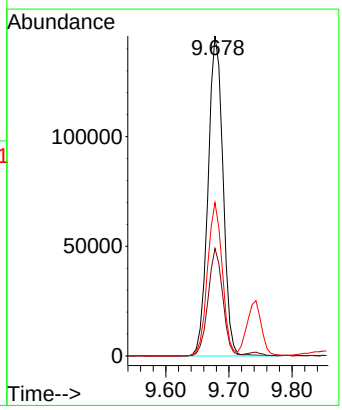


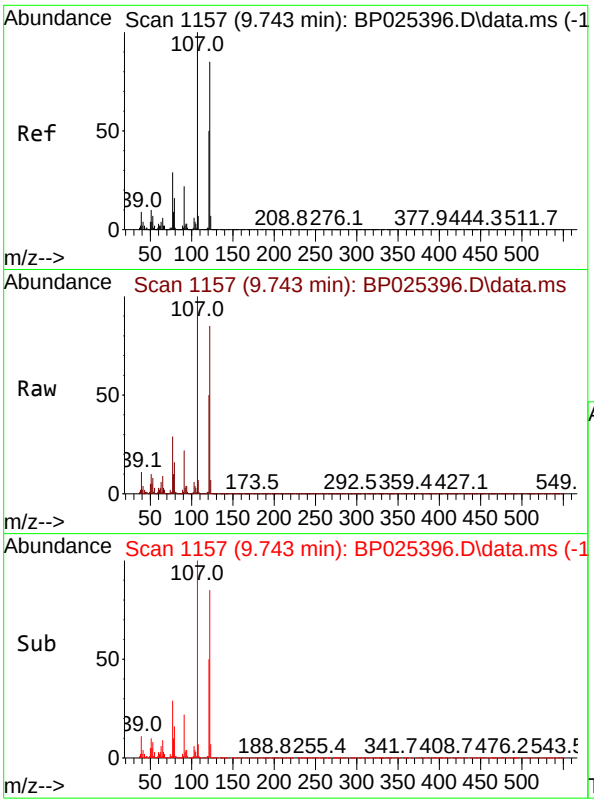


#26
2-Nitrophenol
Concen: 39.837 ng
RT: 9.678 min Scan# 1146
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:139 Resp: 239675

Ion	Ratio	Lower	Upper
139	100		
109	33.6	26.9	40.3
65	47.9	38.3	57.5



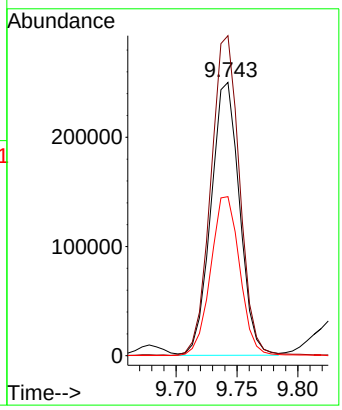


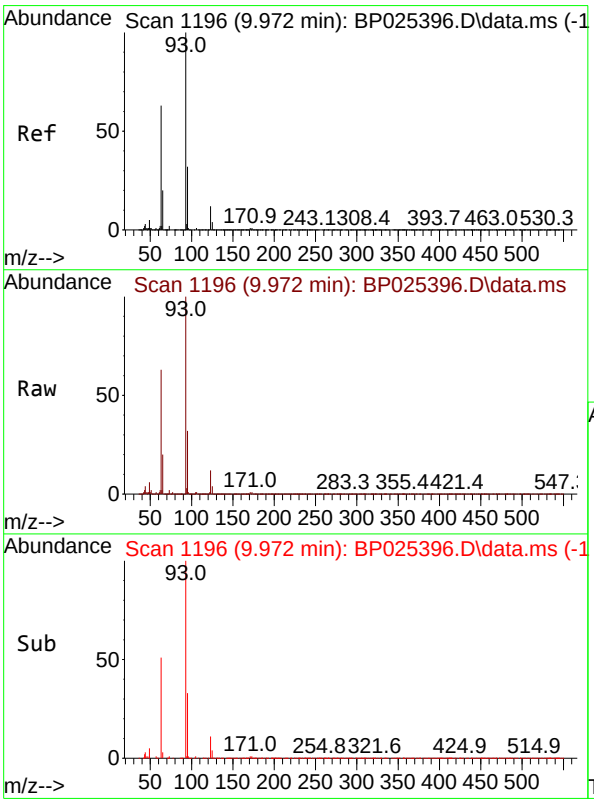
#27
2,4-Dimethylphenol
Concen: 39.489 ng
RT: 9.743 min Scan# 11
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:122 Resp: 408572

Ion	Ratio	Lower	Upper
122	100		
107	117.1	93.7	140.5
121	58.2	46.6	69.8

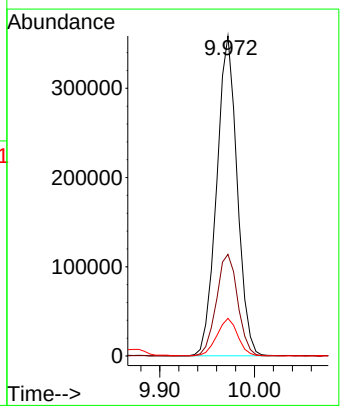


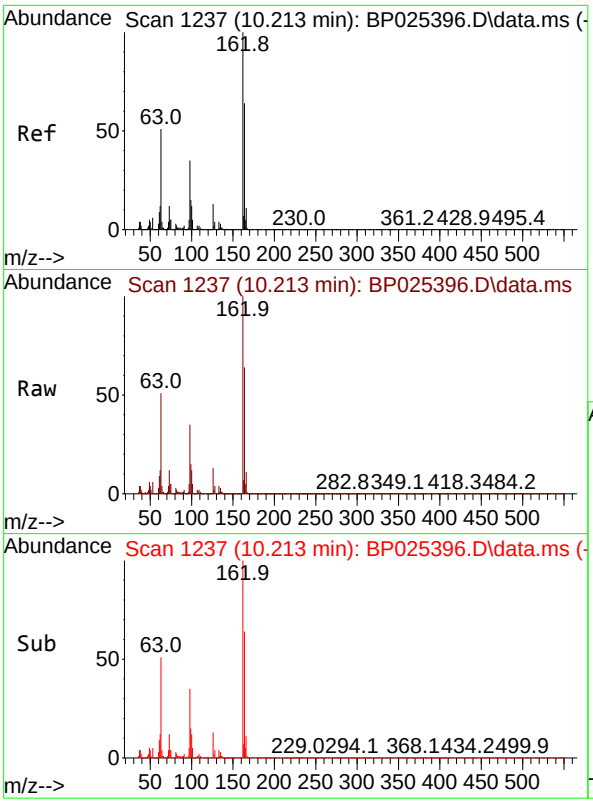


#28
bis(2-Chloroethoxy)methane
Concen: 38.502 ng
RT: 9.972 min Scan# 1196
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion: 93 Resp: 540282

Ion	Ratio	Lower	Upper
93	100		
95	31.7	25.4	38.0
123	11.7	9.4	14.0



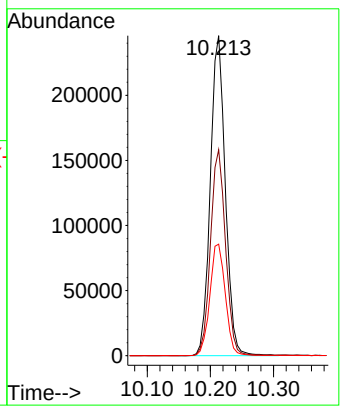


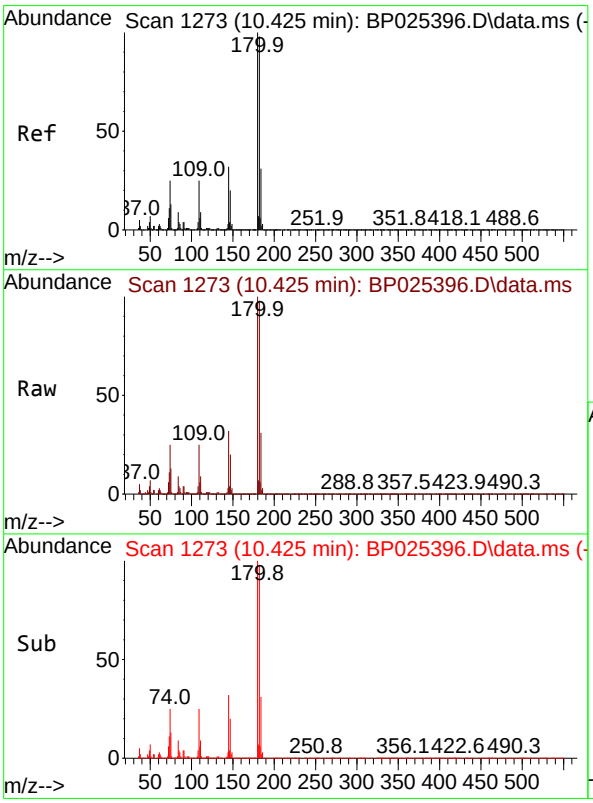
#29
2,4-Dichlorophenol
Concen: 39.427 ng
RT: 10.213 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:162 Resp: 405233

Ion	Ratio	Lower	Upper
162	100		
164	64.4	44.4	84.4
98	34.9	14.9	54.9

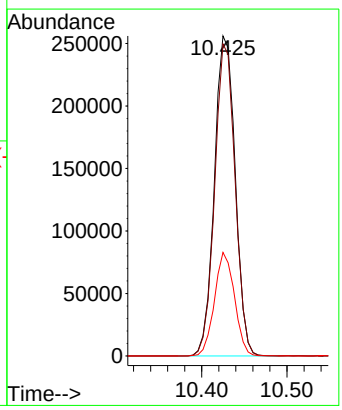


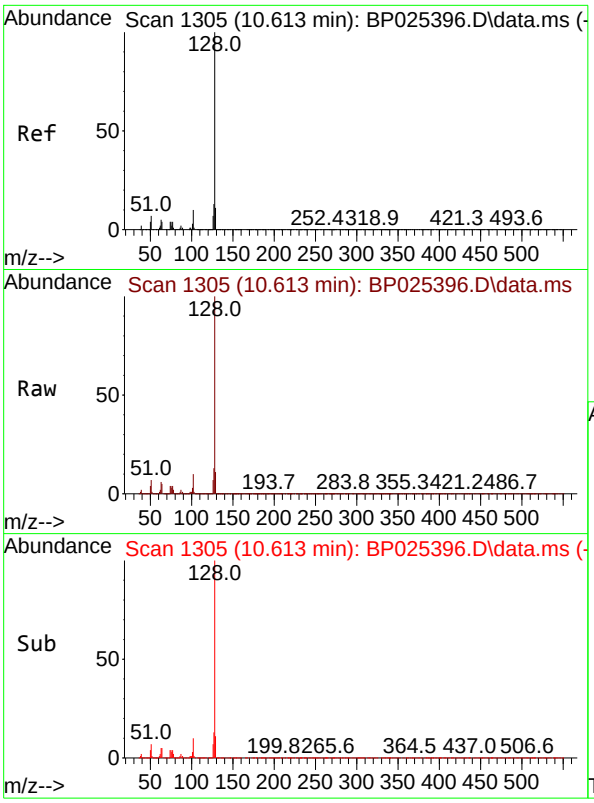


#30
1,2,4-Trichlorobenzene
Concen: 38.529 ng
RT: 10.425 min Scan# 1273
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:180 Resp: 434105

Ion	Ratio	Lower	Upper
180	100		
182	97.5	78.0	117.0
145	32.4	25.9	38.9



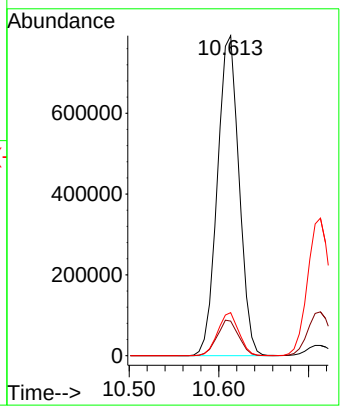


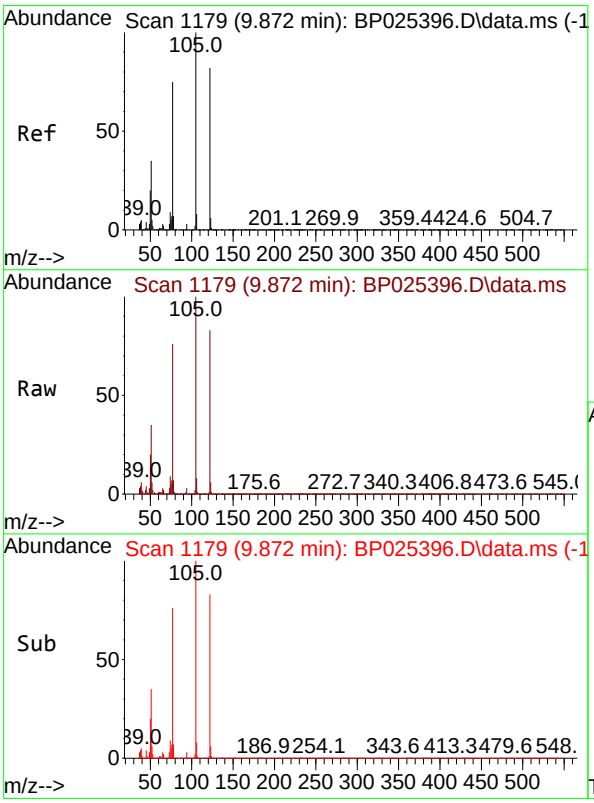
#31
Naphthalene
Concen: 38.472 ng
RT: 10.613 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:128 Resp: 1326839

Ion	Ratio	Lower	Upper
128	100		
129	10.8	8.6	13.0
127	13.4	10.7	16.1

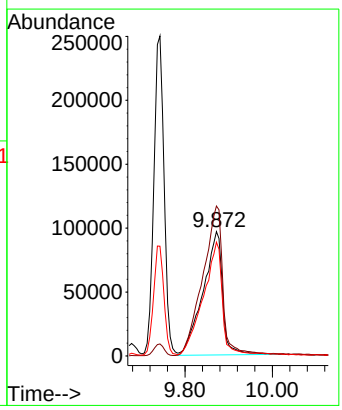


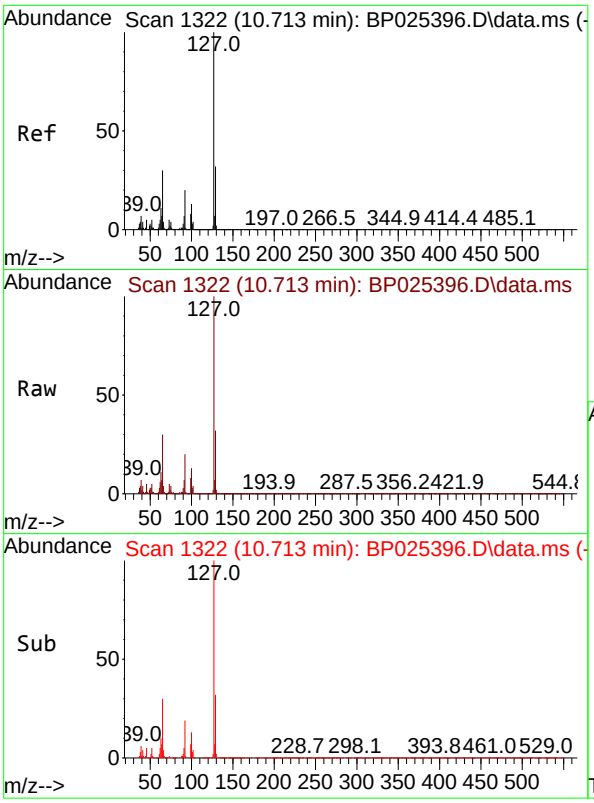


#32
Benzoic acid
Concen: 39.537 ng
RT: 9.872 min Scan# 1179
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:122 Resp: 301281

Ion	Ratio	Lower	Upper
122	100		
105	120.6	100.6	140.6
77	91.5	71.5	111.5



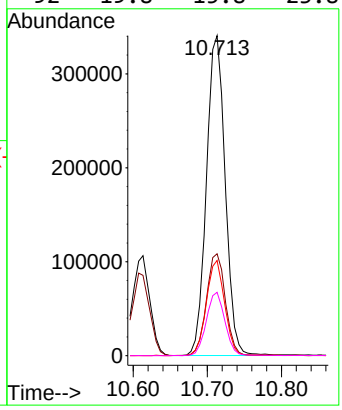


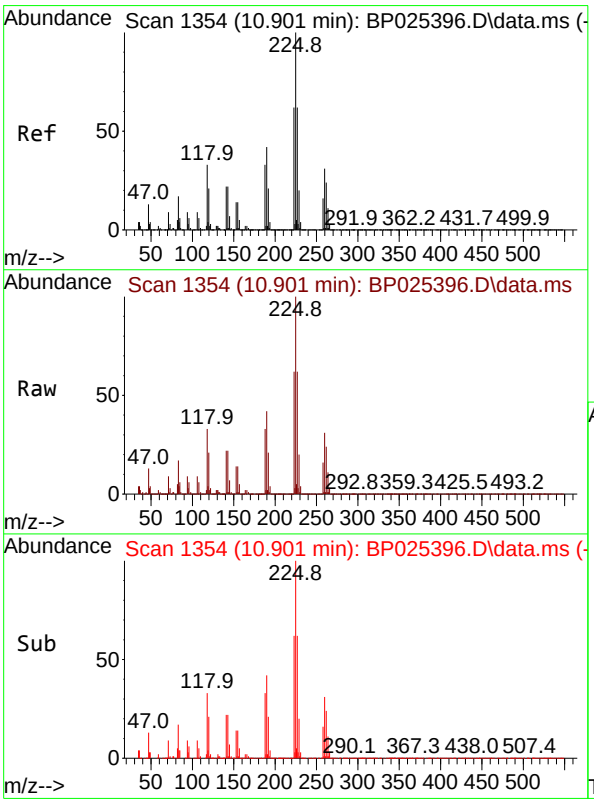
#33
4-Chloroaniline
Concen: 39.350 ng
RT: 10.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:127 Resp: 599466

Ion	Ratio	Lower	Upper
127	100		
129	31.8	25.4	38.2
65	29.7	23.8	35.6
92	19.8	15.8	23.8

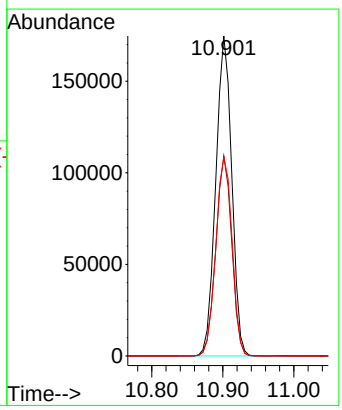


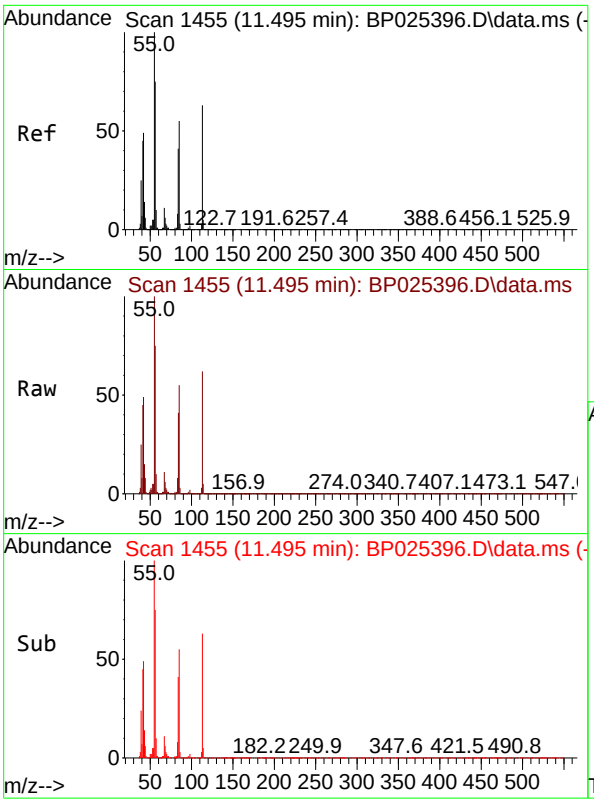


#34
Hexachlorobutadiene
Concen: 38.700 ng
RT: 10.901 min Scan# 1354
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:225 Resp: 271549

Ion	Ratio	Lower	Upper
225	100		
223	62.5	50.0	75.0
227	62.1	49.7	74.5



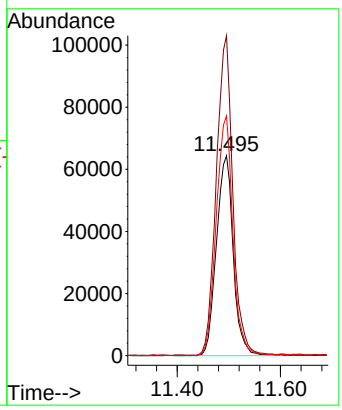


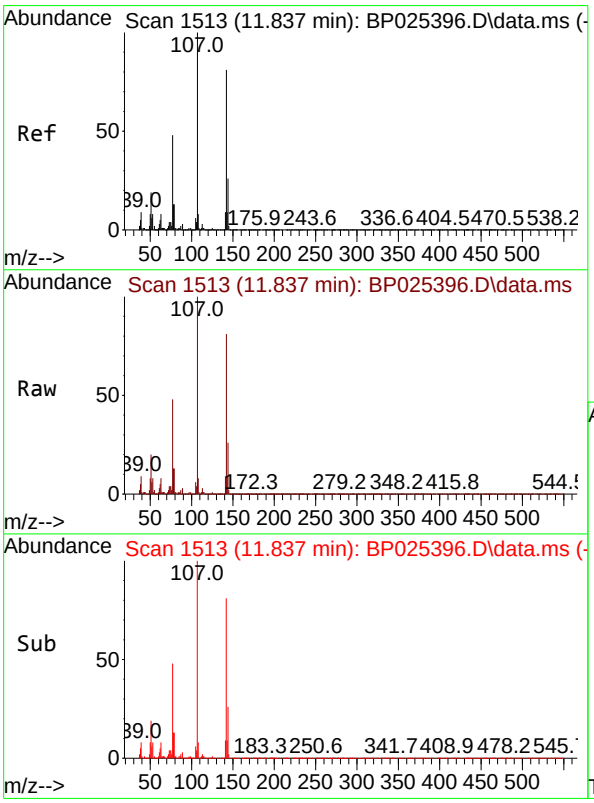
#35
Caprolactam
Concen: 38.520 ng
RT: 11.495 min Scan# 14
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:113 Resp: 145175

Ion	Ratio	Lower	Upper
113	100		
55	160.0	140.0	180.0
56	120.0	100.0	140.0

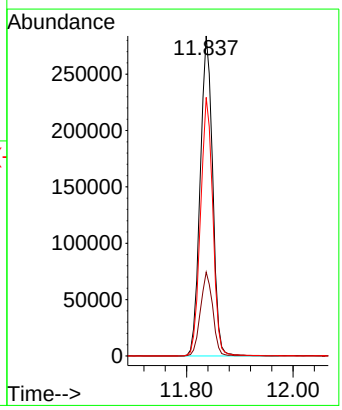


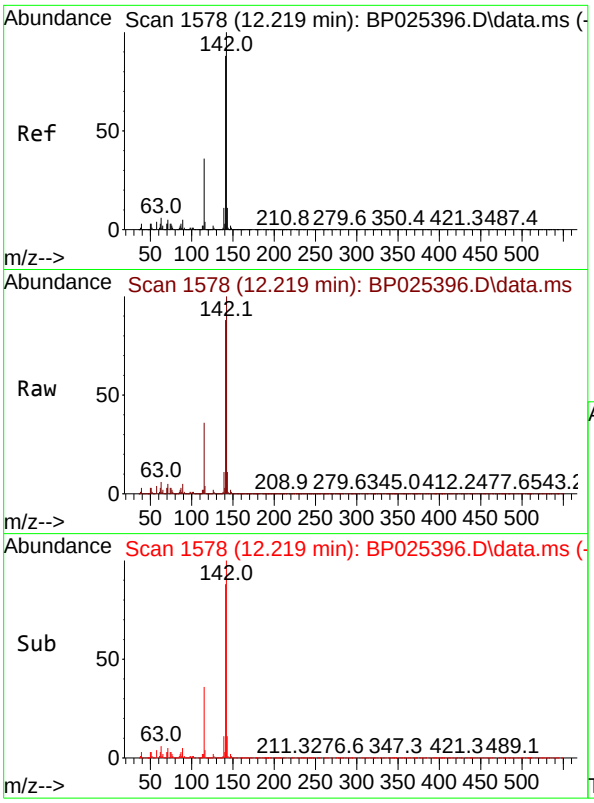


#36
4-Chloro-3-methylphenol
Concen: 38.959 ng
RT: 11.837 min Scan# 1513
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:107 Resp: 459473

Ion	Ratio	Lower	Upper
107	100		
144	26.2	21.0	31.4
142	80.8	64.6	97.0



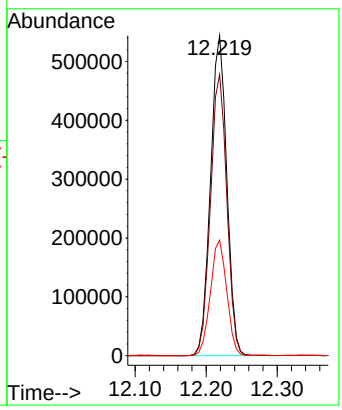


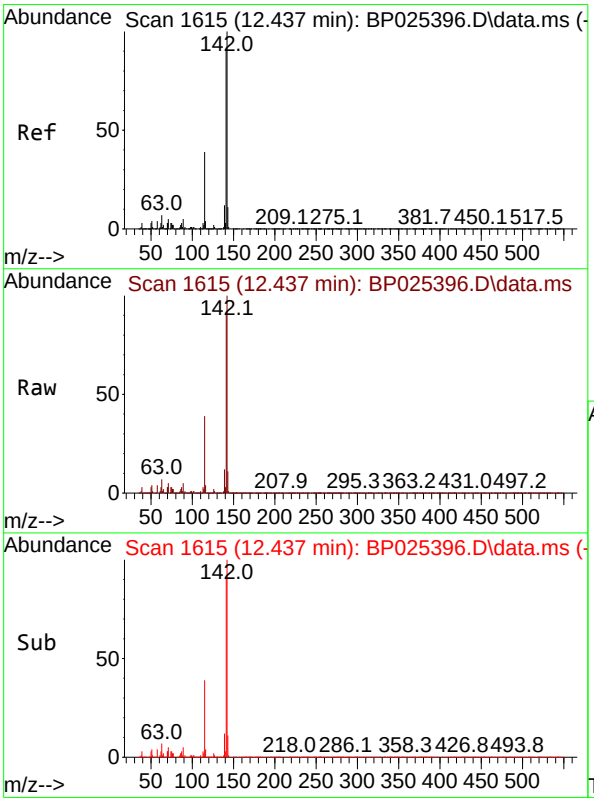
#37
2-Methylnaphthalene
Concen: 38.559 ng
RT: 12.219 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:142 Resp: 865427

Ion	Ratio	Lower	Upper
142	100		
141	87.9	70.3	105.5
115	36.1	28.9	43.3

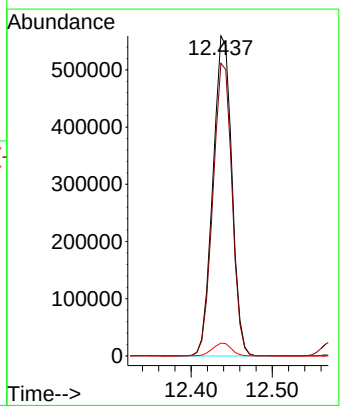


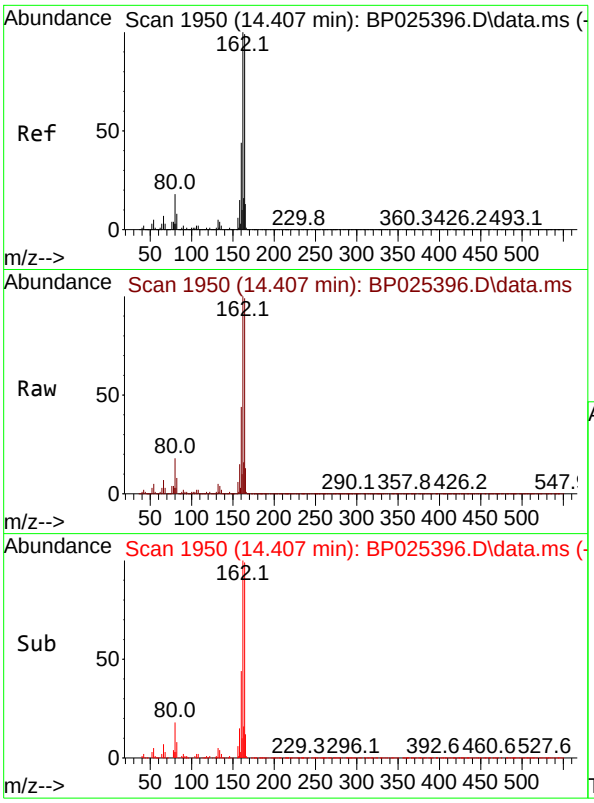


#38
1-Methylnaphthalene
Concen: 38.120 ng
RT: 12.437 min Scan# 1615
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:142 Resp: 909865

Ion	Ratio	Lower	Upper
142	100		
141	91.4	73.1	109.7
116	4.0	3.2	4.8



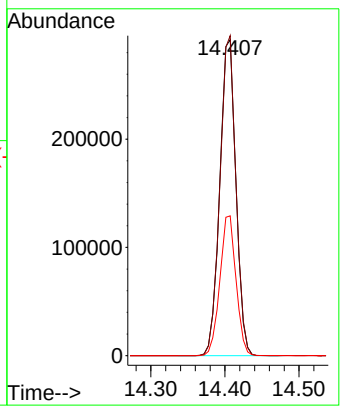


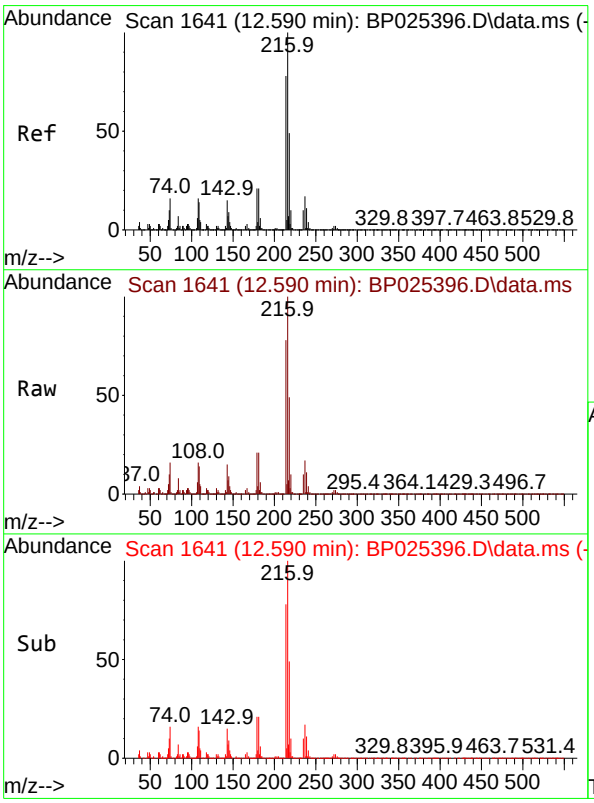
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.407 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:164 Resp: 441110

Ion	Ratio	Lower	Upper
164	100		
162	101.3	81.0	121.6
160	44.3	35.4	53.2

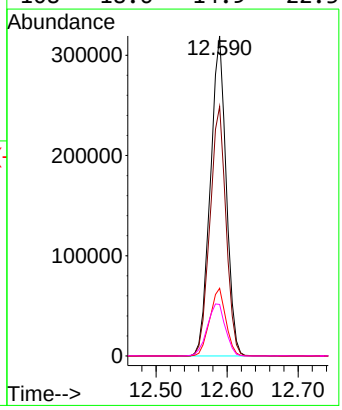


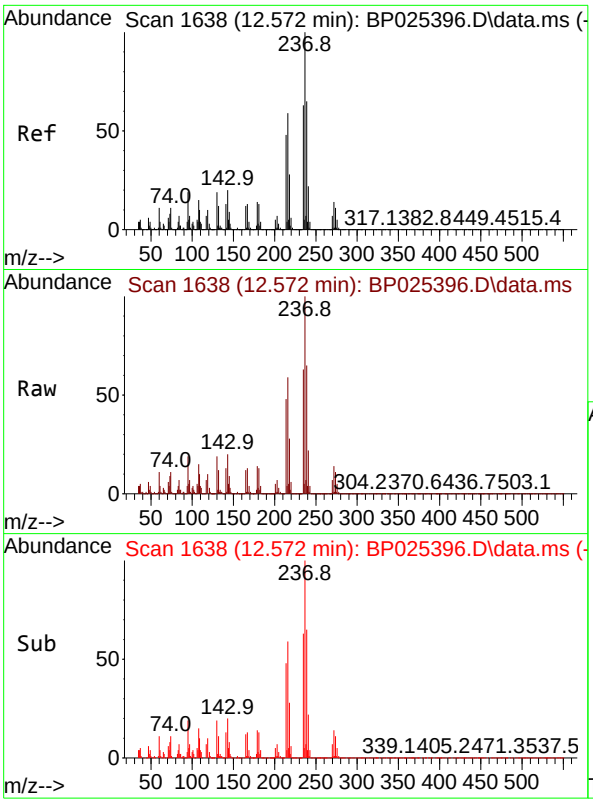


#40
1,2,4,5-Tetrachlorobenzene
Concen: 38.787 ng
RT: 12.590 min Scan# 1641
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:216 Resp: 494141

Ion	Ratio	Lower	Upper
216	100		
214	78.7	63.0	94.4
179	21.4	17.1	25.7
108	18.6	14.9	22.3



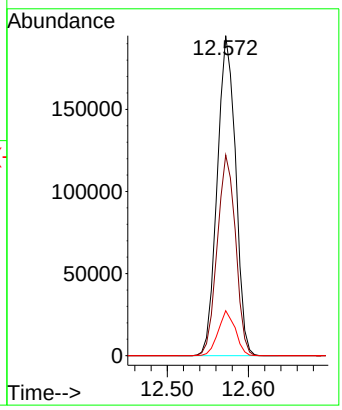


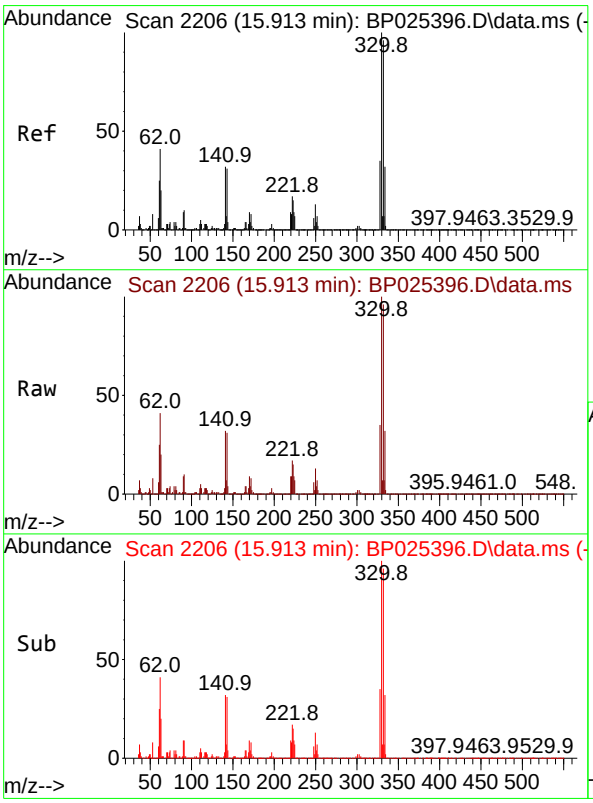
#41
Hexachlorocyclopentadiene
Concen: 39.896 ng
RT: 12.572 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:237 Resp: 307015

Ion	Ratio	Lower	Upper
237	100		
235	62.7	42.7	82.7
272	14.0	0.0	34.0

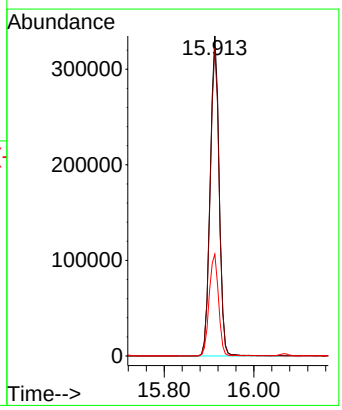


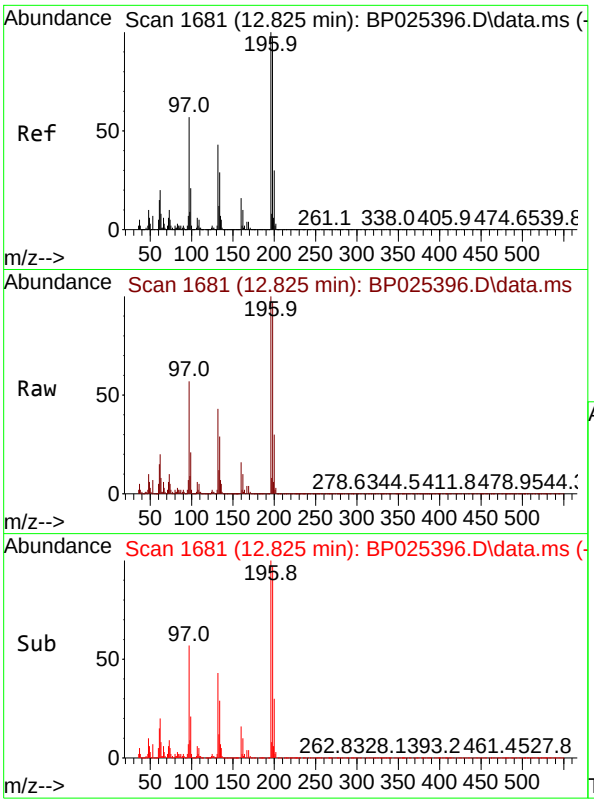


#42
2,4,6-Tribromophenol
Concen: 78.112 ng
RT: 15.913 min Scan# 2206
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:330 Resp: 463783

Ion	Ratio	Lower	Upper
330	100		
332	96.6	77.3	115.9
141	33.2	26.6	39.8



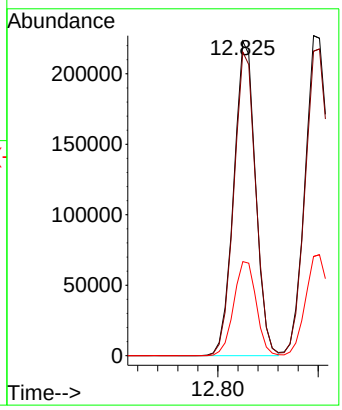


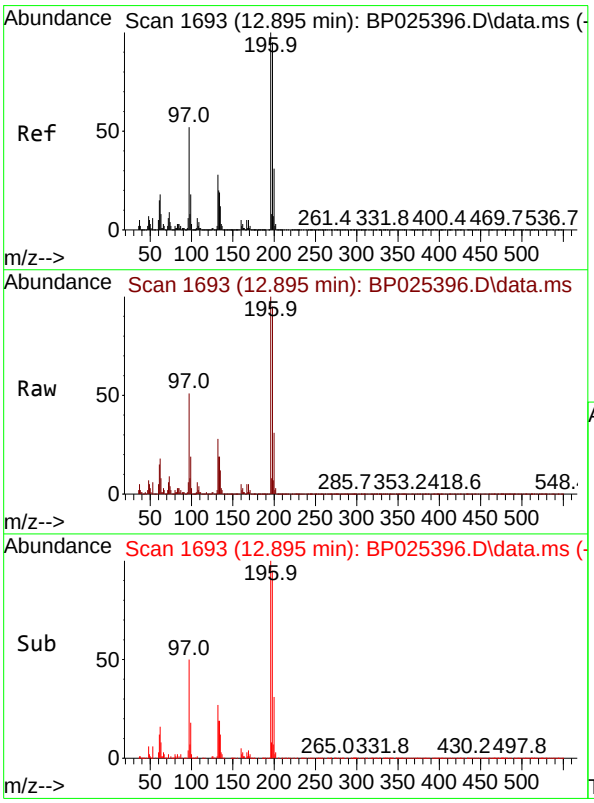
#43
2,4,6-Trichlorophenol
Concen: 39.201 ng
RT: 12.825 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:196 Resp: 337157

Ion	Ratio	Lower	Upper
196	100		
198	96.5	77.2	115.8
200	29.9	23.9	35.9

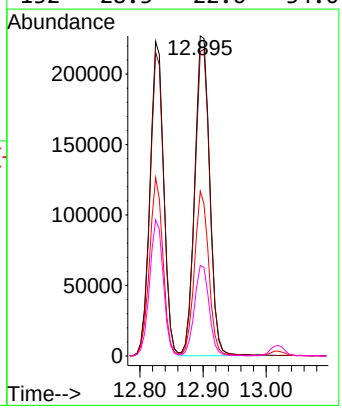


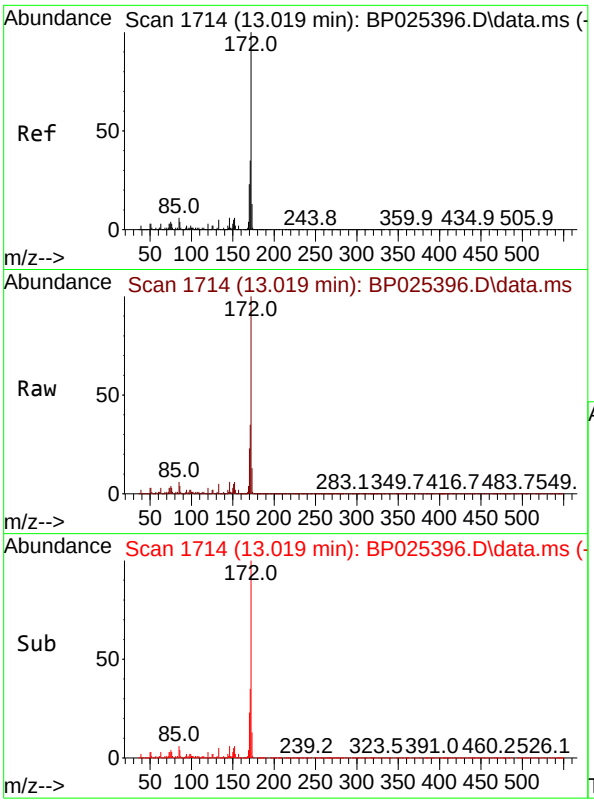


#44
2,4,5-Trichlorophenol
Concen: 39.664 ng
RT: 12.895 min Scan# 1693
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:196 Resp: 373880

Ion	Ratio	Lower	Upper
196	100		
198	95.2	76.2	114.2
97	51.5	41.2	61.8
132	28.3	22.6	34.0



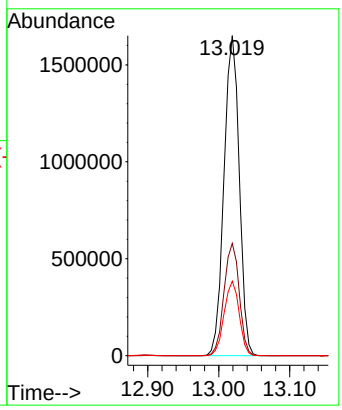


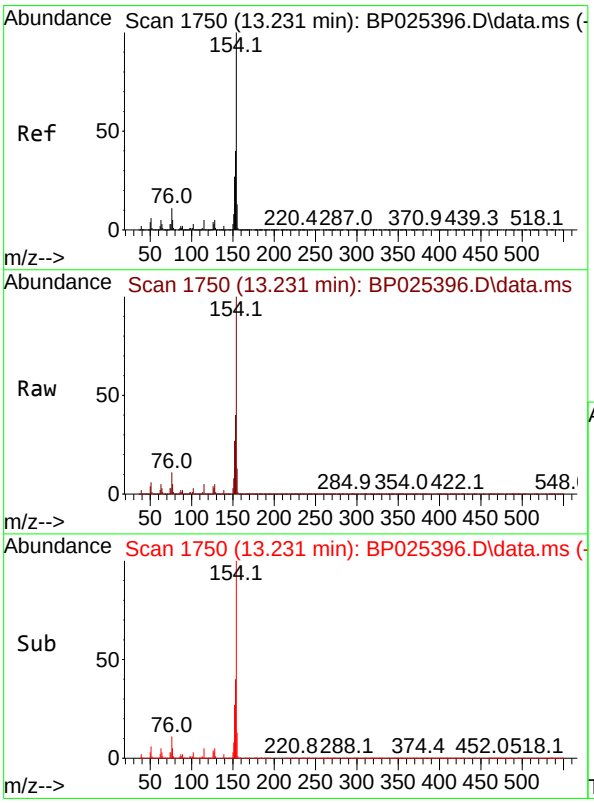
#45
2-Fluorobiphenyl
Concen: 76.118 ng
RT: 13.019 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:172 Resp: 2456787

Ion	Ratio	Lower	Upper
172	100		
171	35.1	28.1	42.1
170	23.3	18.6	28.0

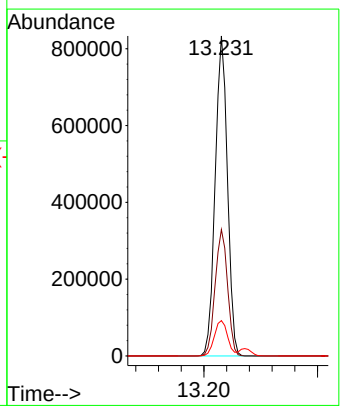


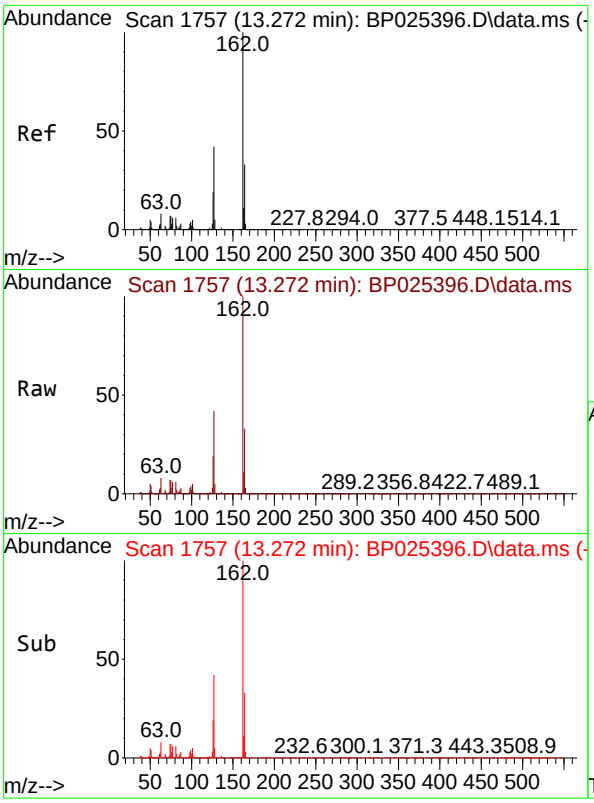


#46
1,1'-Biphenyl
Concen: 38.777 ng
RT: 13.231 min Scan# 1750
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:154 Resp: 1242247

Ion	Ratio	Lower	Upper
154	100		
153	39.5	19.5	59.5
76	11.1	0.0	31.1



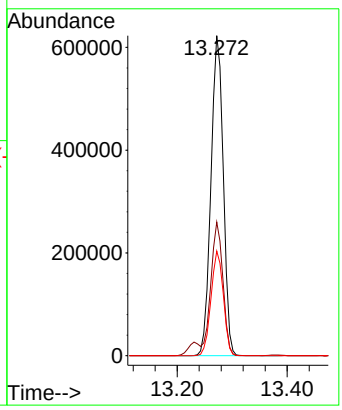


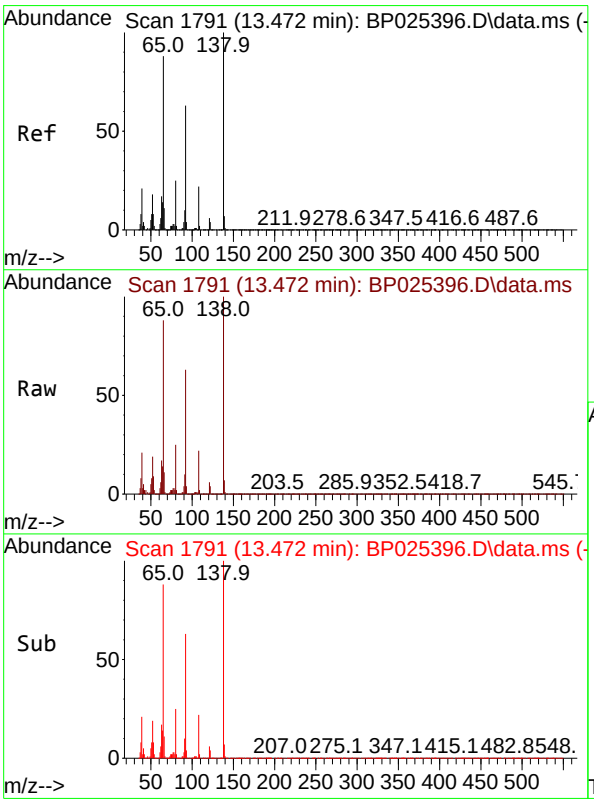
#47
2-Chloronaphthalene
Concen: 38.930 ng
RT: 13.272 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:162 Resp: 970903

Ion	Ratio	Lower	Upper
162	100		
127	41.8	33.4	50.2
164	32.7	26.2	39.2

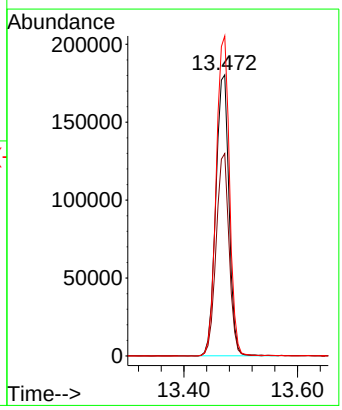


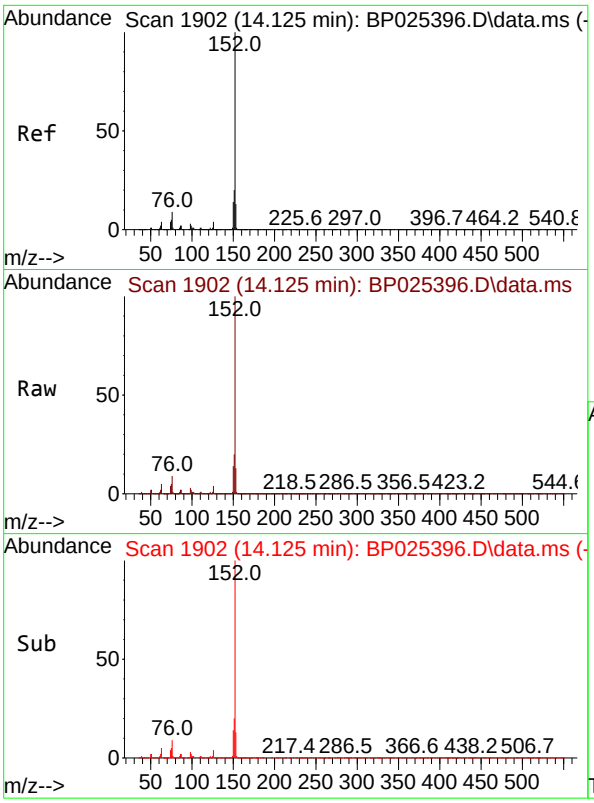


#48
2-Nitroaniline
Concen: 40.092 ng
RT: 13.472 min Scan# 1791
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion: 65 Resp: 291341

Ion	Ratio	Lower	Upper
65	100		
92	72.0	57.6	86.4
138	113.8	91.0	136.6



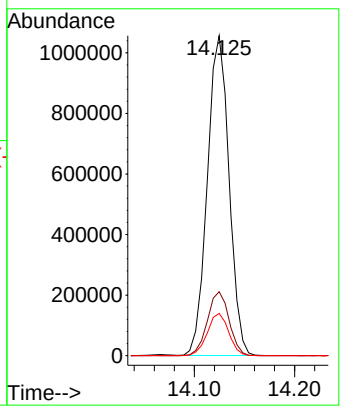


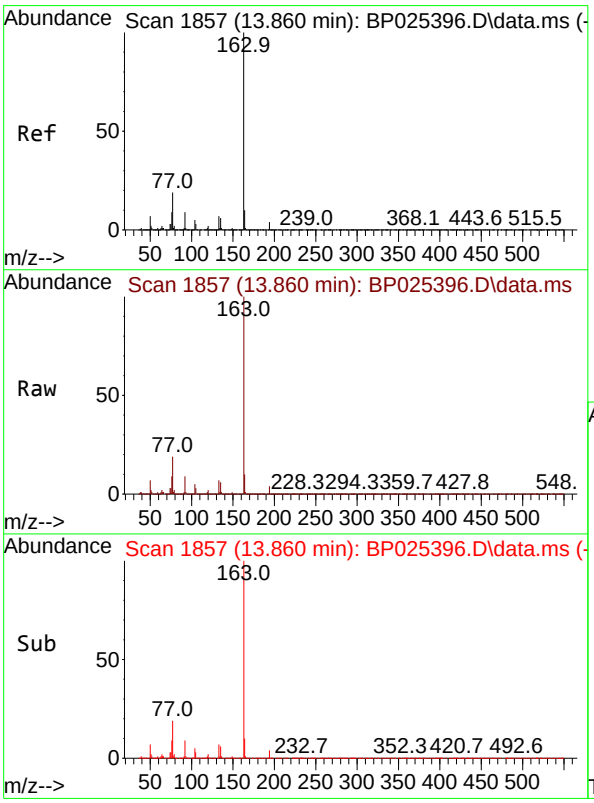
#49
Acenaphthylene
Concen: 38.617 ng
RT: 14.125 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:152 Resp: 1593636

Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.0	24.0
153	13.2	10.6	15.8

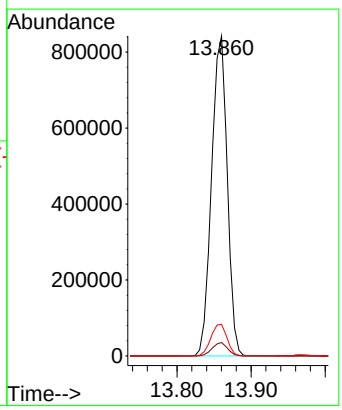


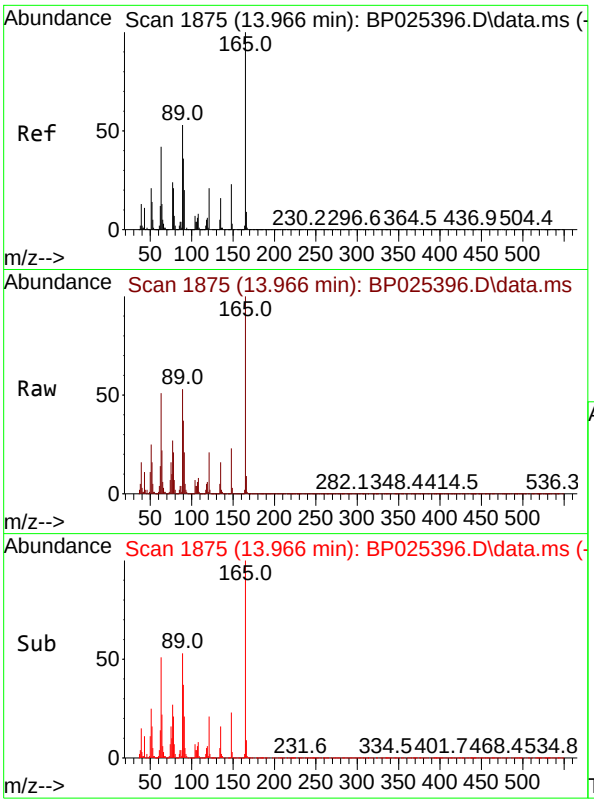


#50
Dimethylphthalate
Concen: 38.316 ng
RT: 13.860 min Scan# 1857
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:163 Resp: 1237666

Ion	Ratio	Lower	Upper
163	100		
194	4.2	3.4	5.0
164	9.9	7.9	11.9



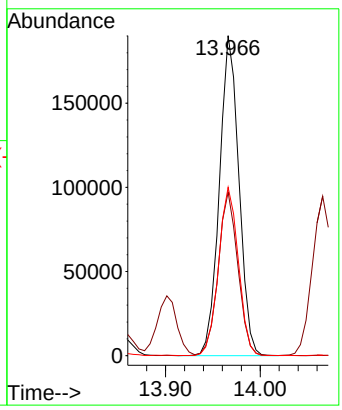


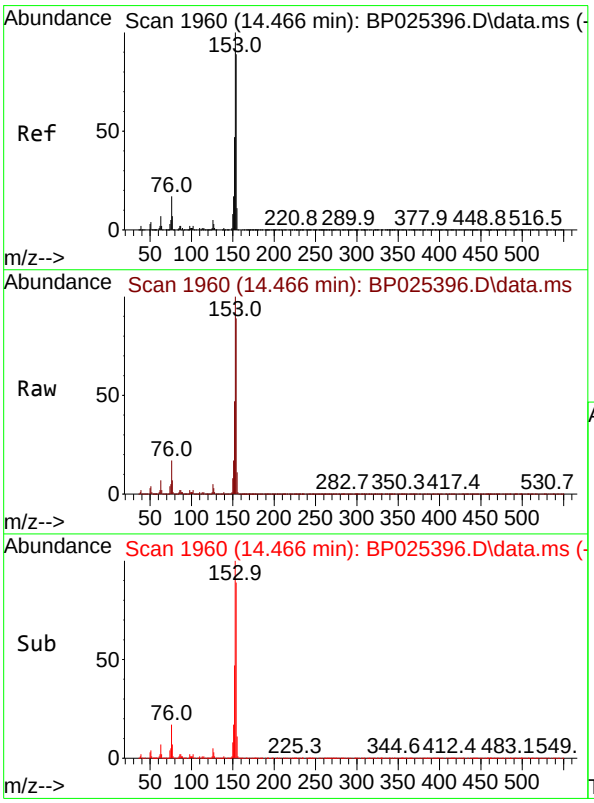
#51
2,6-Dinitrotoluene
Concen: 40.061 ng
RT: 13.966 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:165 Resp: 272750

Ion	Ratio	Lower	Upper
165	100		
63	51.1	40.9	61.3
89	52.6	42.1	63.1

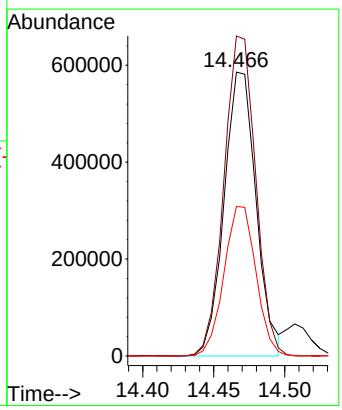


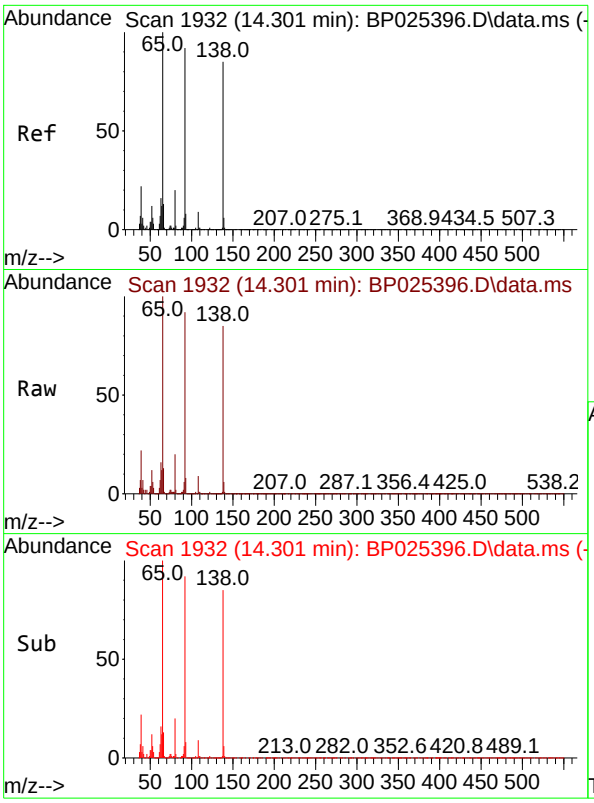


#52
Acenaphthene
Concen: 37.921 ng
RT: 14.466 min Scan# 1960
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:154 Resp: 918569

Ion	Ratio	Lower	Upper
154	100		
153	112.7	90.2	135.2
152	52.6	42.1	63.1



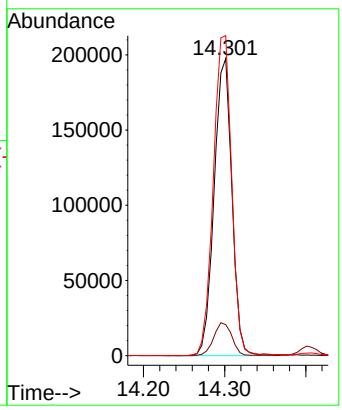


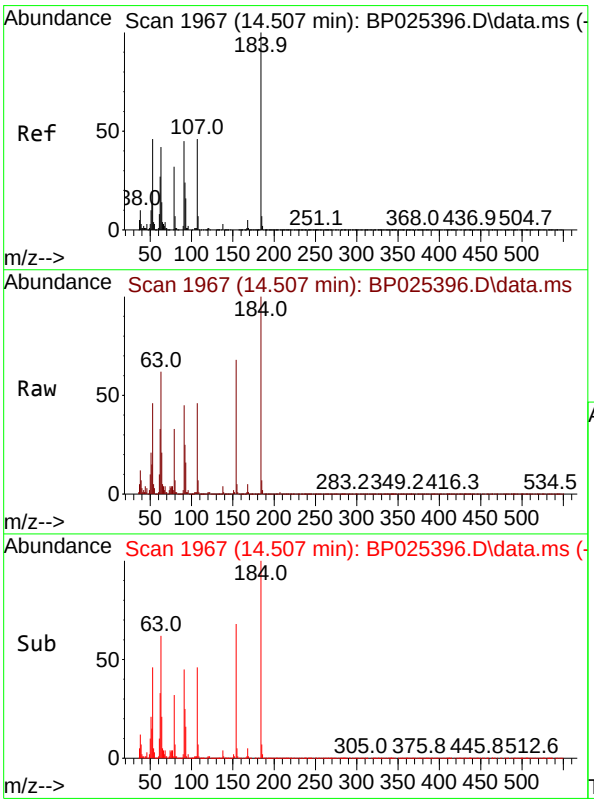
#53
3-Nitroaniline
Concen: 39.349 ng
RT: 14.301 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:138 Resp: 301417

Ion	Ratio	Lower	Upper
138	100		
108	10.4	8.3	12.5
92	107.7	86.2	129.2

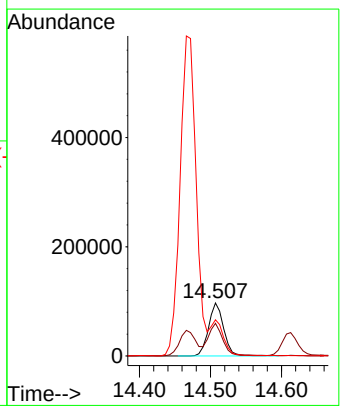


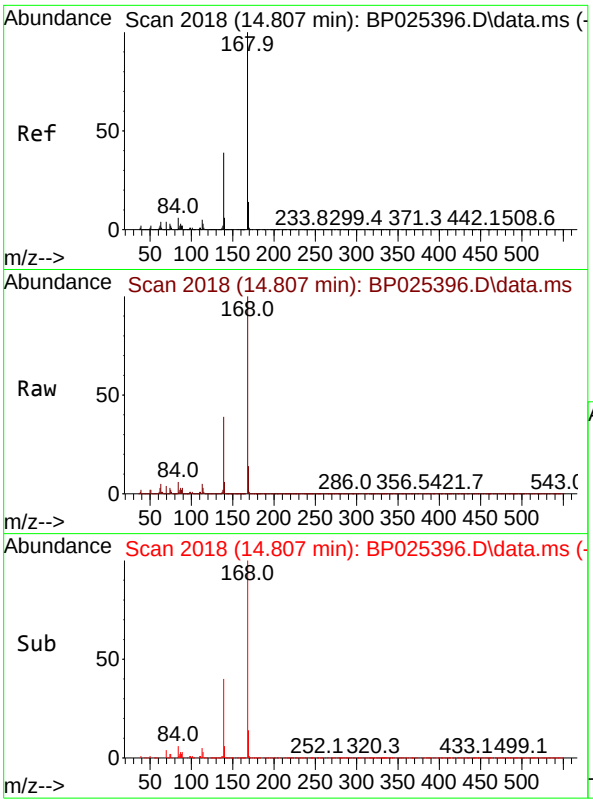


#54
2,4-Dinitrophenol
Concen: 39.633 ng
RT: 14.507 min Scan# 1967
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:184 Resp: 144100

Ion	Ratio	Lower	Upper
184	100		
63	61.8	49.4	74.2
154	68.3	54.6	82.0



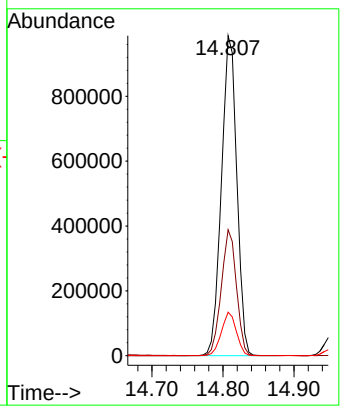


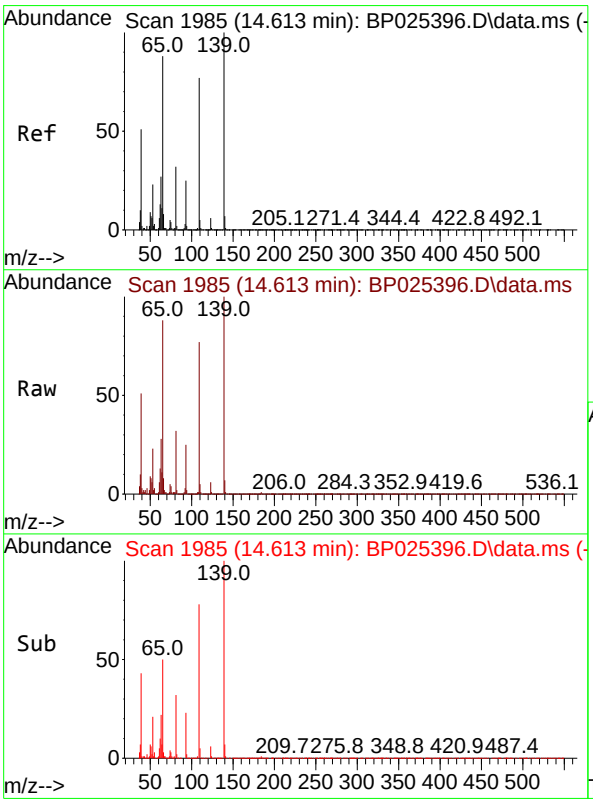
#55
Dibenzofuran
Concen: 38.624 ng
RT: 14.807 min Scan# 2(
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:168 Resp: 1479220

Ion	Ratio	Lower	Upper
168	100		
139	39.4	31.5	47.3
169	13.6	10.9	16.3

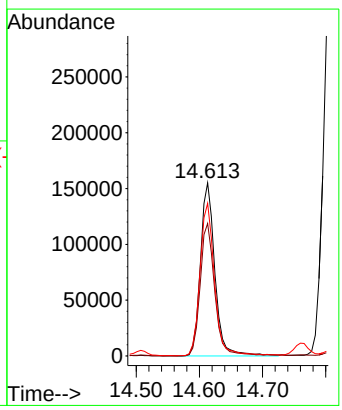


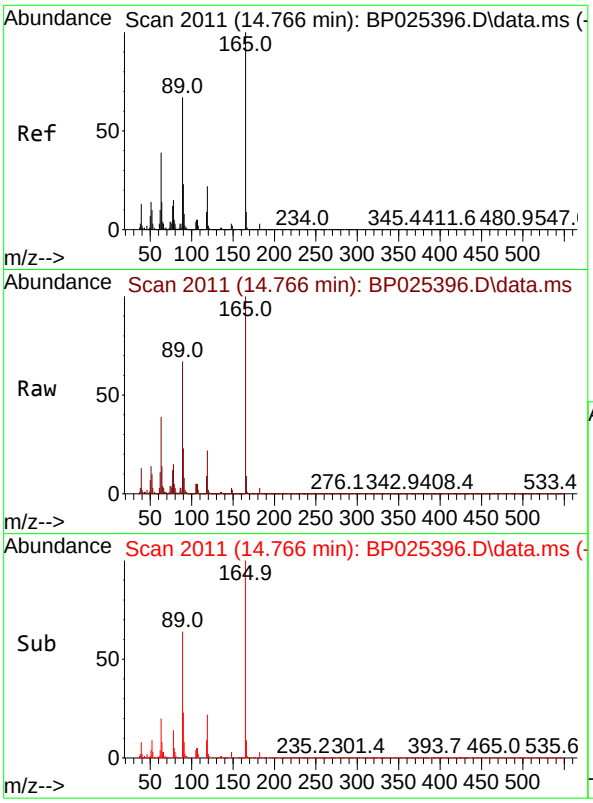


#56
4-Nitrophenol
Concen: 39.168 ng
RT: 14.613 min Scan# 1985
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:139 Resp: 246542

Ion	Ratio	Lower	Upper
139	100		
109	76.6	56.6	96.6
65	88.2	68.2	108.2



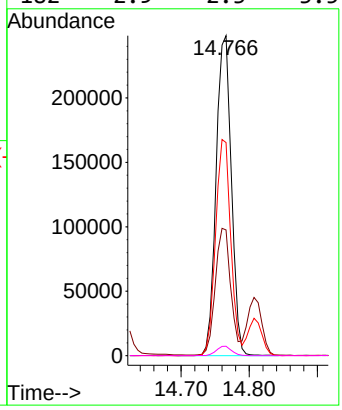


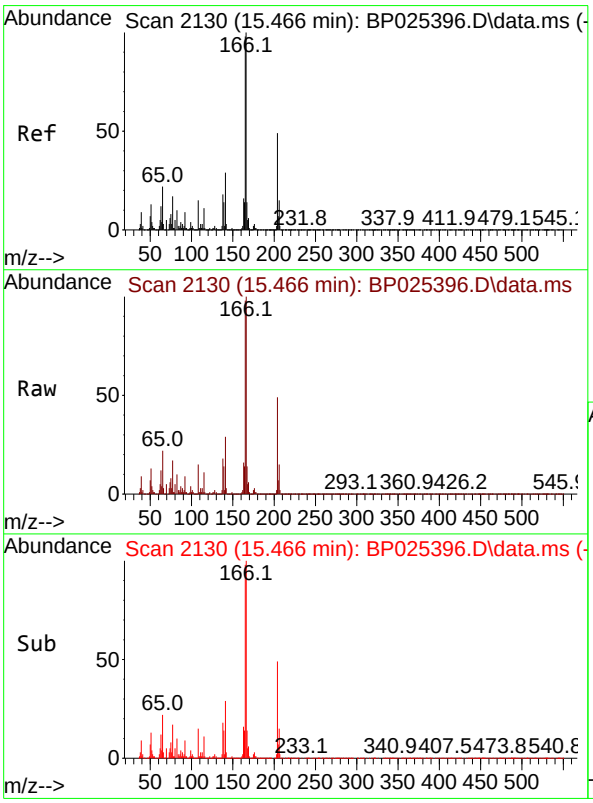
#57
2,4-Dinitrotoluene
Concen: 39.757 ng
RT: 14.766 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:165 Resp: 386189

Ion	Ratio	Lower	Upper
165	100		
63	39.3	31.4	47.2
89	66.6	53.3	79.9
182	2.9	2.3	3.5

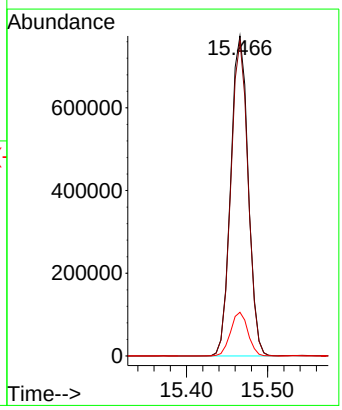


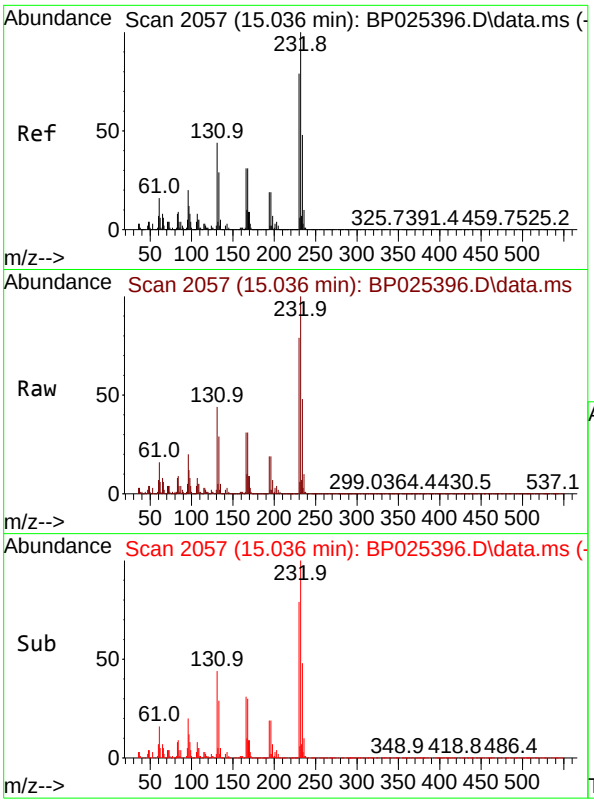


#58
Fluorene
Concen: 38.115 ng
RT: 15.466 min Scan# 2130
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:166 Resp: 1151825

Ion	Ratio	Lower	Upper
166	100		
165	98.5	78.8	118.2
167	13.7	11.0	16.4



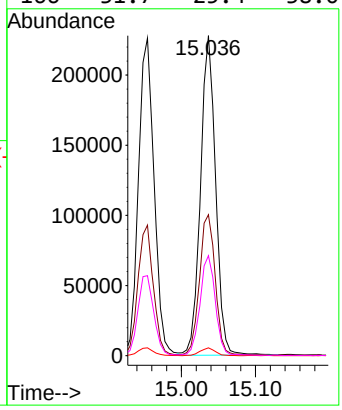


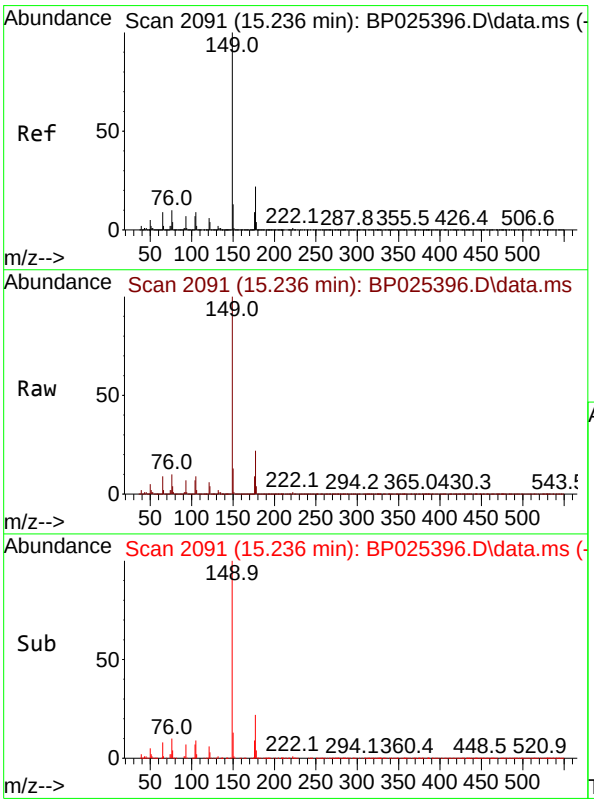
#59
2,3,4,6-Tetrachlorophenol
Concen: 38.975 ng
RT: 15.036 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:232 Resp: 324396

Ion	Ratio	Lower	Upper
232	100		
131	46.3	37.0	55.6
130	2.4	1.9	2.9
166	31.7	25.4	38.0

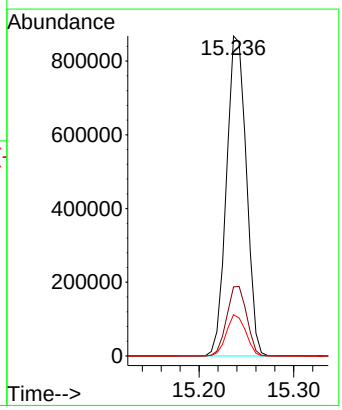


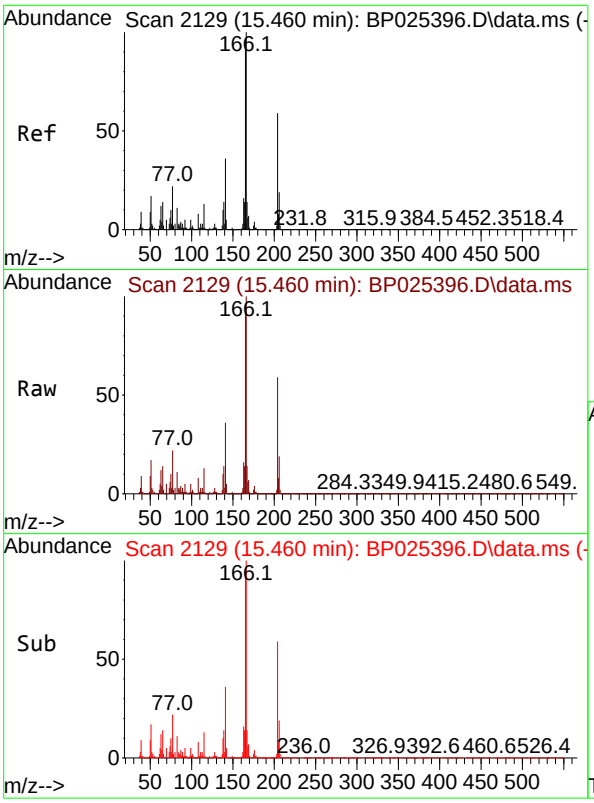


#60
Diethylphthalate
Concen: 38.533 ng
RT: 15.236 min Scan# 2091
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:149 Resp: 1264740

Ion	Ratio	Lower	Upper
149	100		
177	21.6	17.3	25.9
150	12.9	10.3	15.5



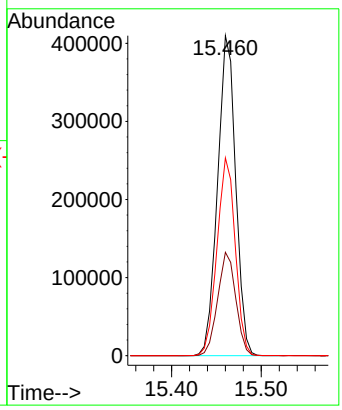


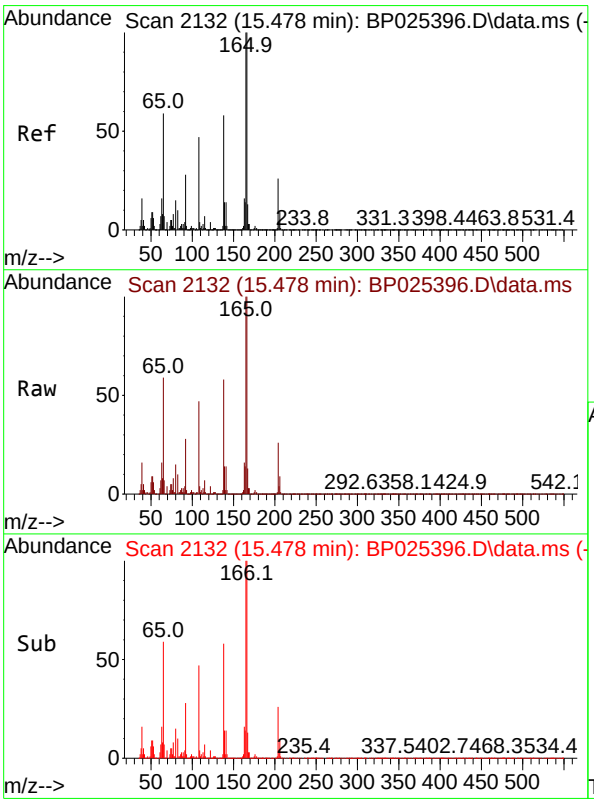
#61
4-Chlorophenyl-phenylether
Concen: 38.228 ng
RT: 15.460 min Scan# 21
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:204 Resp: 574546

Ion	Ratio	Lower	Upper
204	100		
206	32.3	25.8	38.8
141	61.8	49.4	74.2

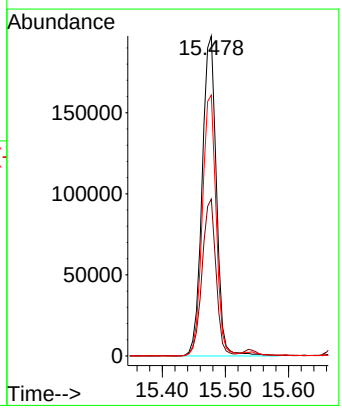


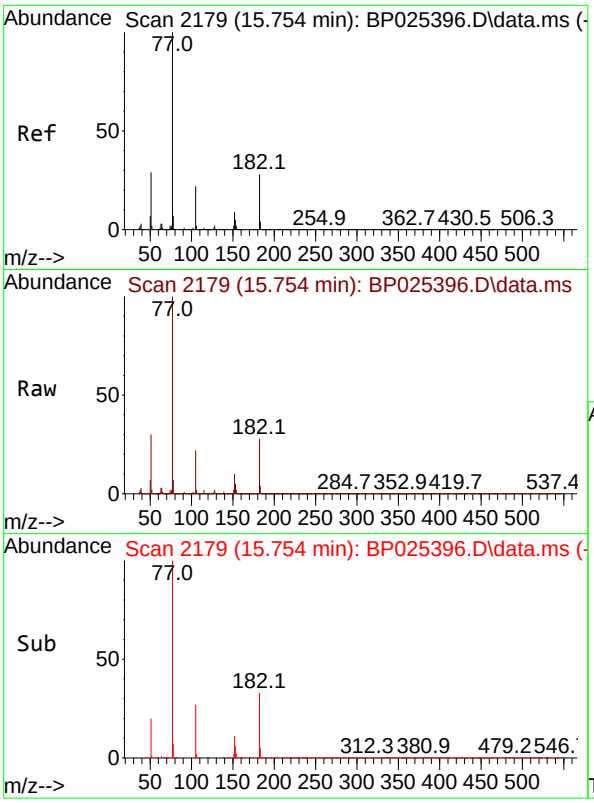


#62
4-Nitroaniline
Concen: 39.443 ng
RT: 15.478 min Scan# 2132
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:138 Resp: 309740

Ion	Ratio	Lower	Upper
138	100		
92	49.1	29.1	69.1
108	81.5	61.5	101.5



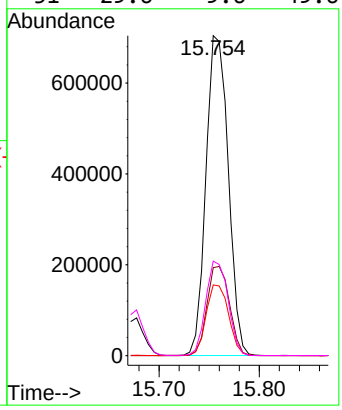


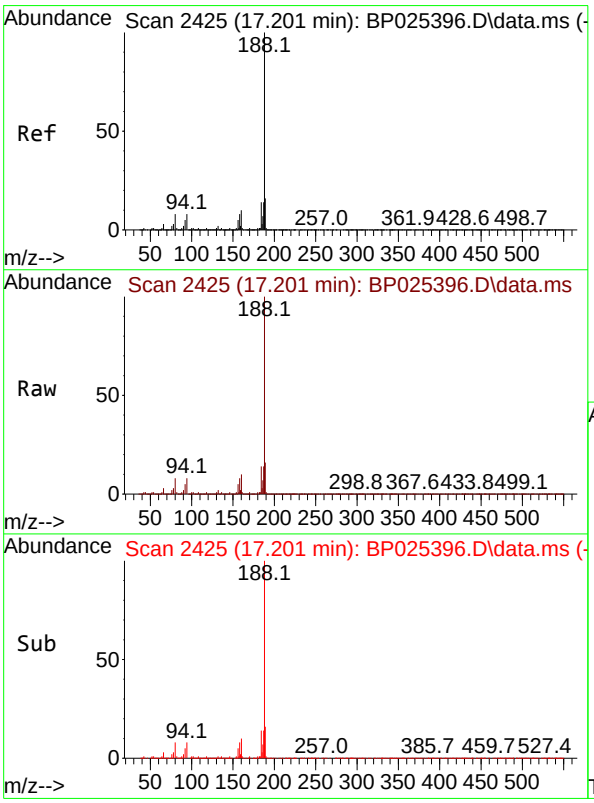
#63
Azobenzene
Concen: 38.820 ng
RT: 15.754 min Scan# 21
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion: 77 Resp: 1091004

Ion	Ratio	Lower	Upper
77	100		
182	27.5	7.5	47.5
105	22.1	2.1	42.1
51	29.6	9.6	49.6

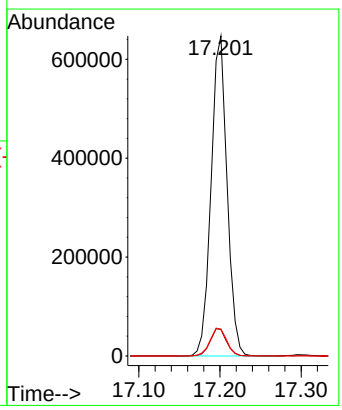


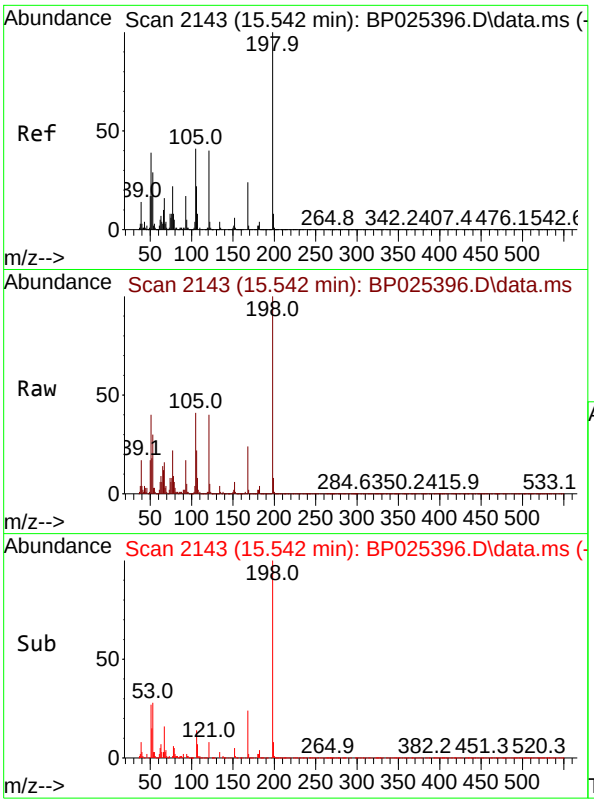


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.201 min Scan# 2425
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:188 Resp: 884529

Ion	Ratio	Lower	Upper
188	100		
94	8.3	6.6	10.0
80	8.4	6.7	10.1



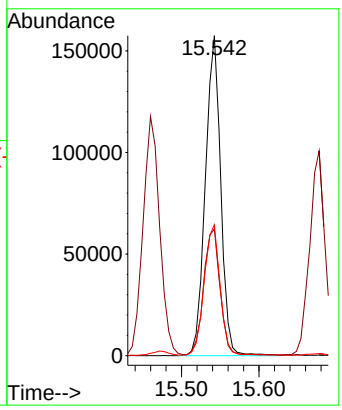


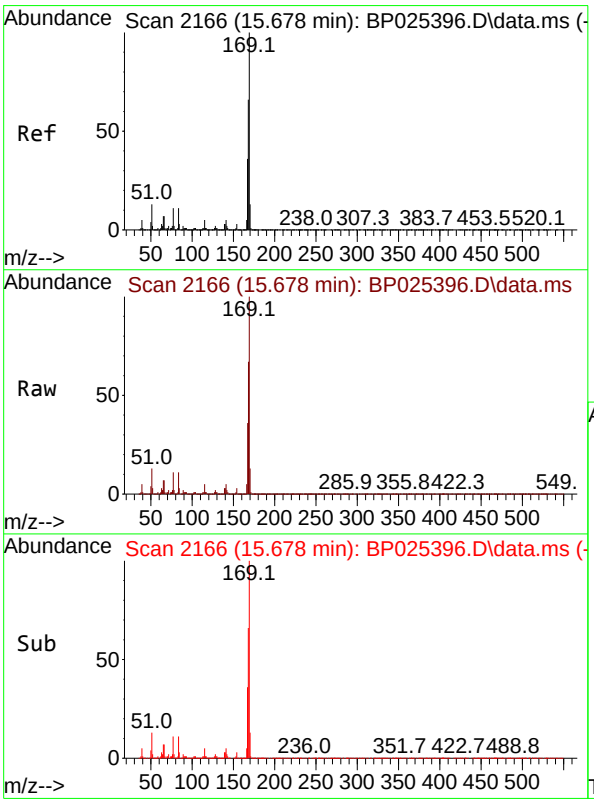
#65
4,6-Dinitro-2-methylphenol
Concen: 39.384 ng
RT: 15.542 min Scan# 21
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:198 Resp: 217153

Ion	Ratio	Lower	Upper
198	100		
51	39.6	19.6	59.6
105	40.9	20.9	60.9

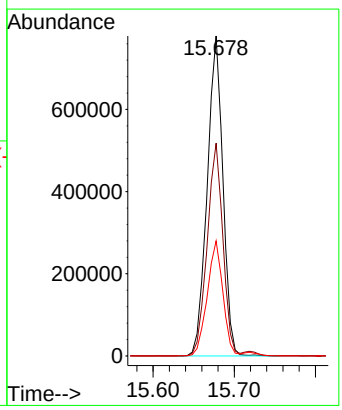


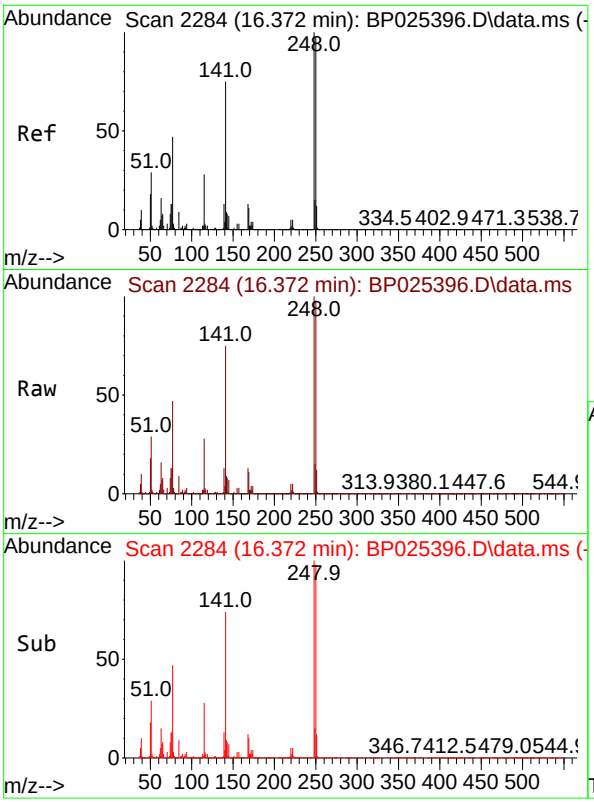


#66
n-Nitrosodiphenylamine
Concen: 38.749 ng
RT: 15.678 min Scan# 2166
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:169 Resp: 1045170

Ion	Ratio	Lower	Upper
169	100		
168	66.5	53.2	79.8
167	35.9	28.7	43.1



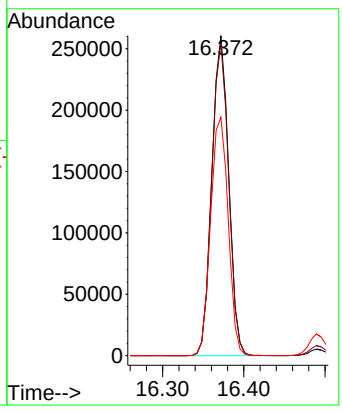


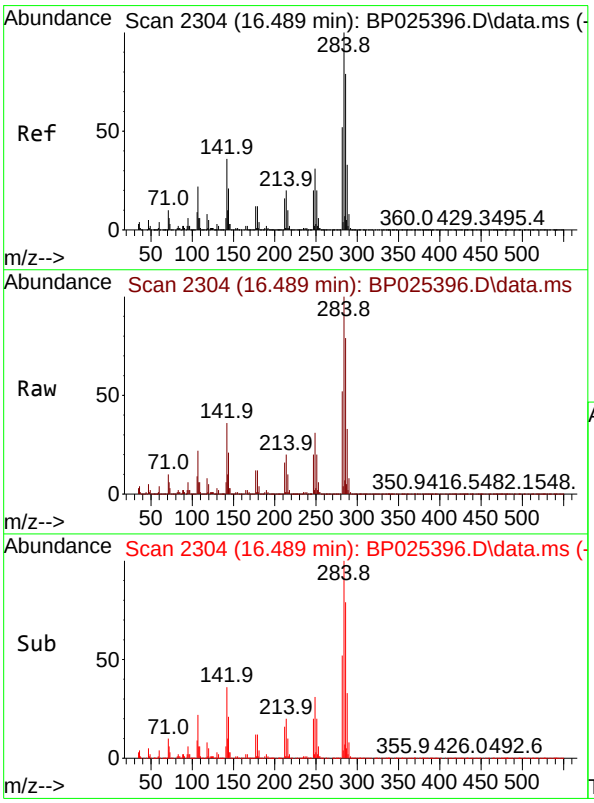
#67
4-Bromophenyl-phenylether
Concen: 38.739 ng
RT: 16.372 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:248 Resp: 376864

Ion	Ratio	Lower	Upper
248	100		
250	97.7	78.2	117.2
141	74.5	59.6	89.4

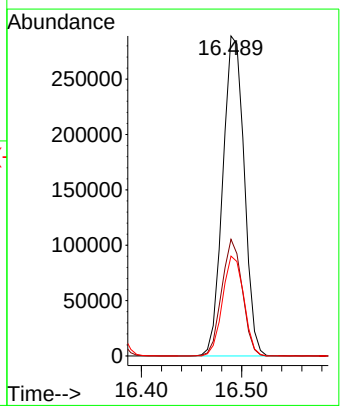


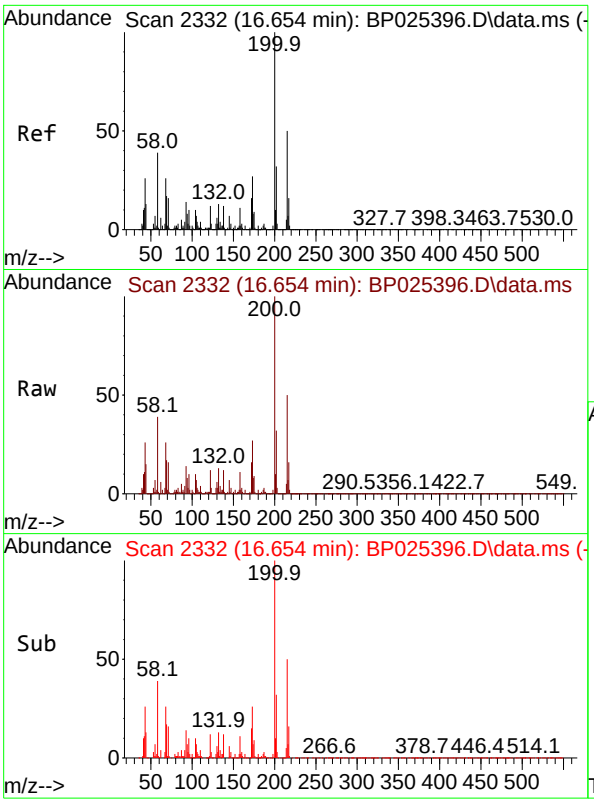


#68
Hexachlorobenzene
Concen: 37.986 ng
RT: 16.489 min Scan# 2304
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:284 Resp: 428361

Ion	Ratio	Lower	Upper
284	100		
142	36.4	29.1	43.7
249	31.2	25.0	37.4



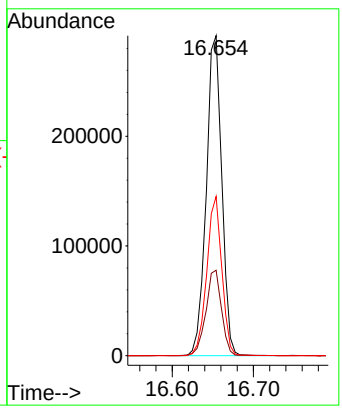


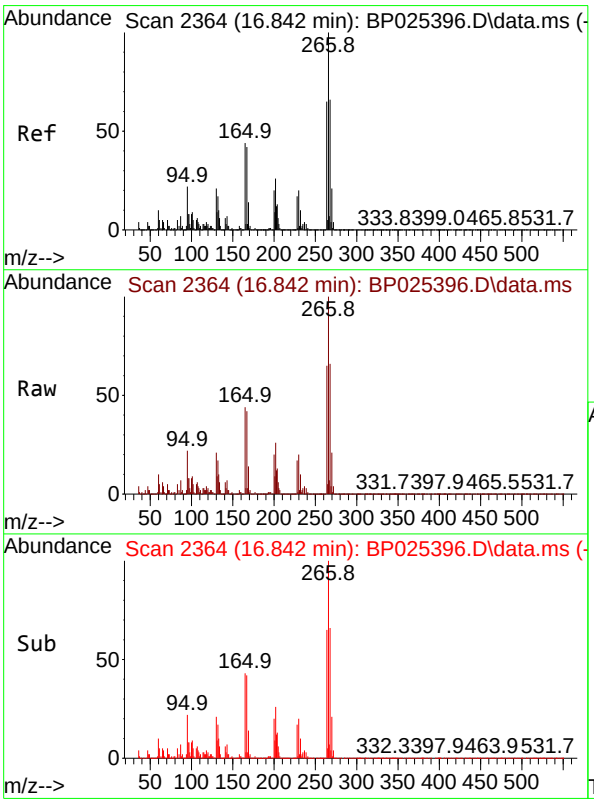
#69
Atrazine
Concen: 38.238 ng
RT: 16.654 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:200 Resp: 386256

Ion	Ratio	Lower	Upper
200	100		
173	26.7	6.7	46.7
215	49.7	29.7	69.7

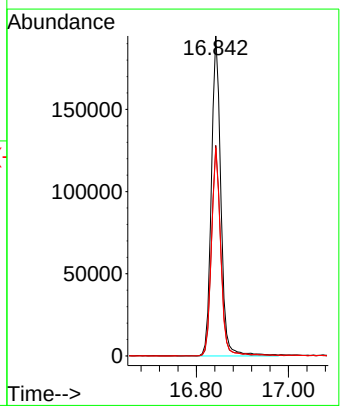


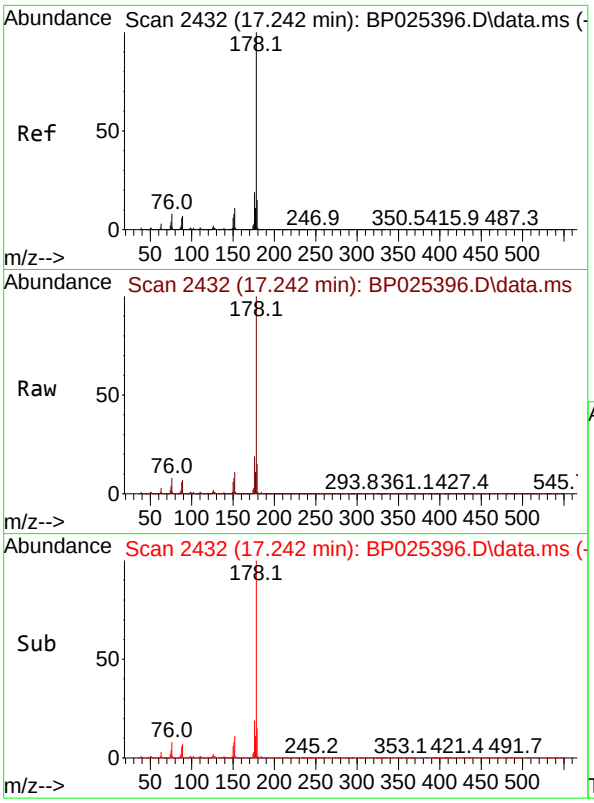


#70
Pentachlorophenol
Concen: 39.110 ng
RT: 16.842 min Scan# 2364
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:266 Resp: 278412

Ion	Ratio	Lower	Upper
266	100		
268	65.8	52.6	79.0
264	65.0	52.0	78.0



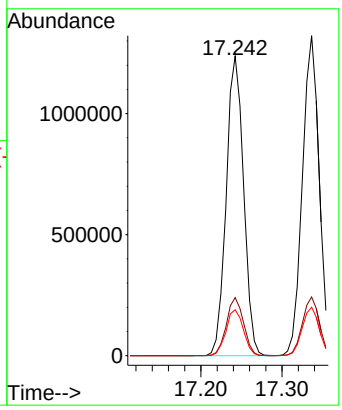


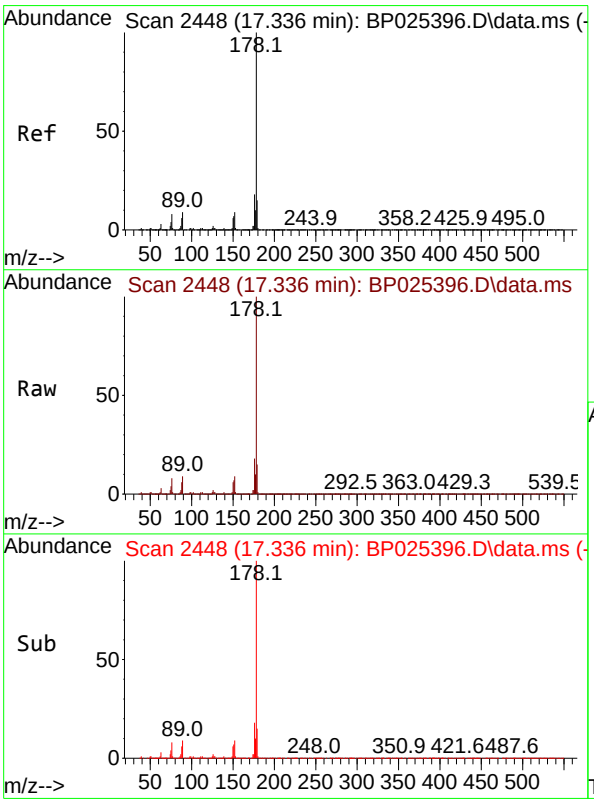
#71
Phenanthrene
Concen: 37.851 ng
RT: 17.242 min Scan# 24
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:178 Resp: 1839191

Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.5	23.3
179	15.3	12.2	18.4

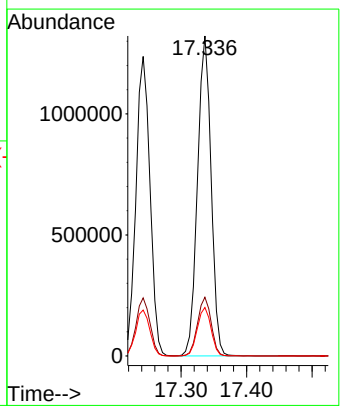


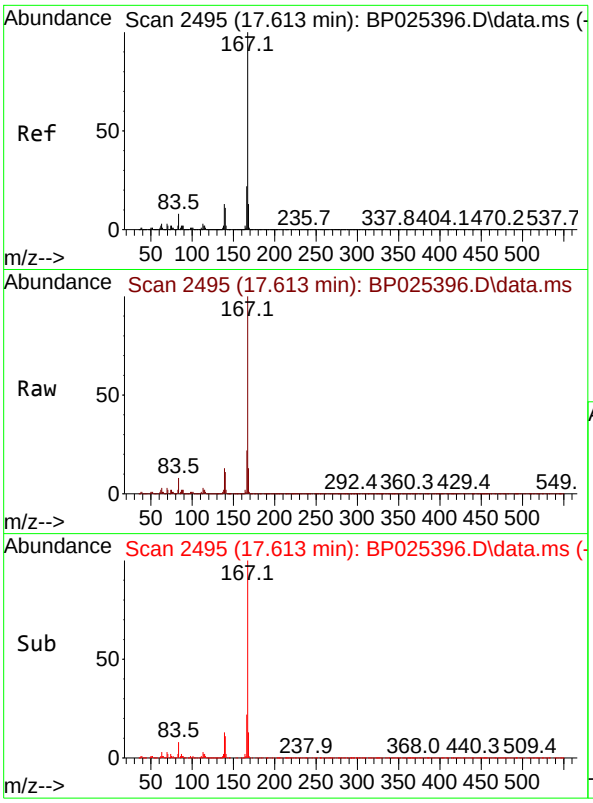


#72
Anthracene
Concen: 38.456 ng
RT: 17.336 min Scan# 2448
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:178 Resp: 1908189

Ion	Ratio	Lower	Upper
178	100		
176	18.4	14.7	22.1
179	15.2	12.2	18.2



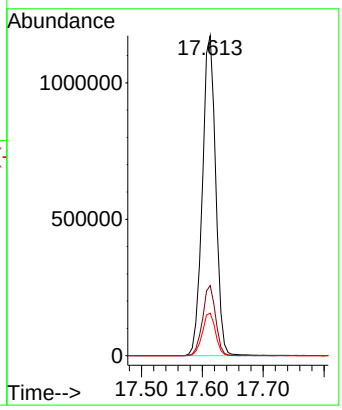


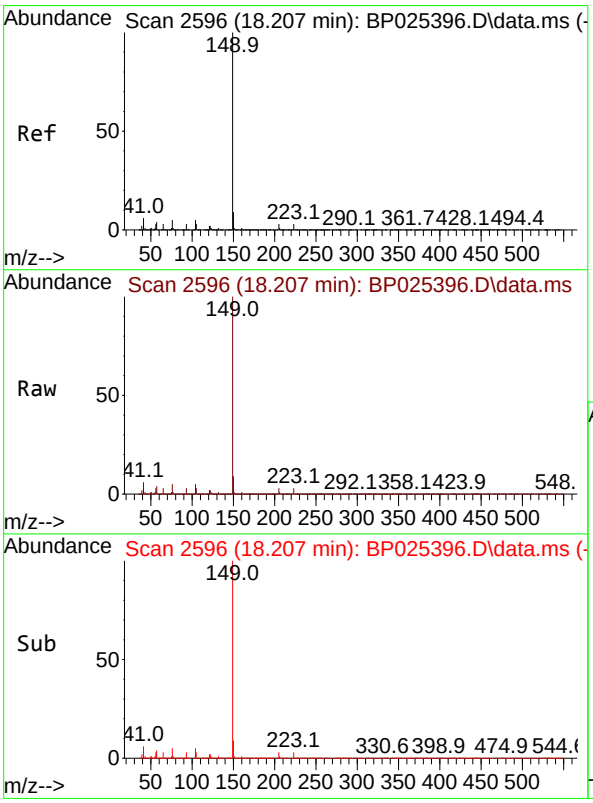
#73
Carbazole
Concen: 38.125 ng
RT: 17.613 min Scan# 24
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:167 Resp: 1781890

Ion	Ratio	Lower	Upper
167	100		
166	21.9	17.5	26.3
139	13.3	10.6	16.0

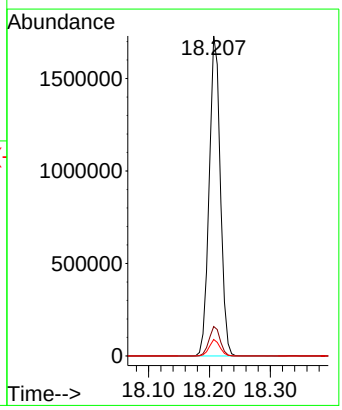


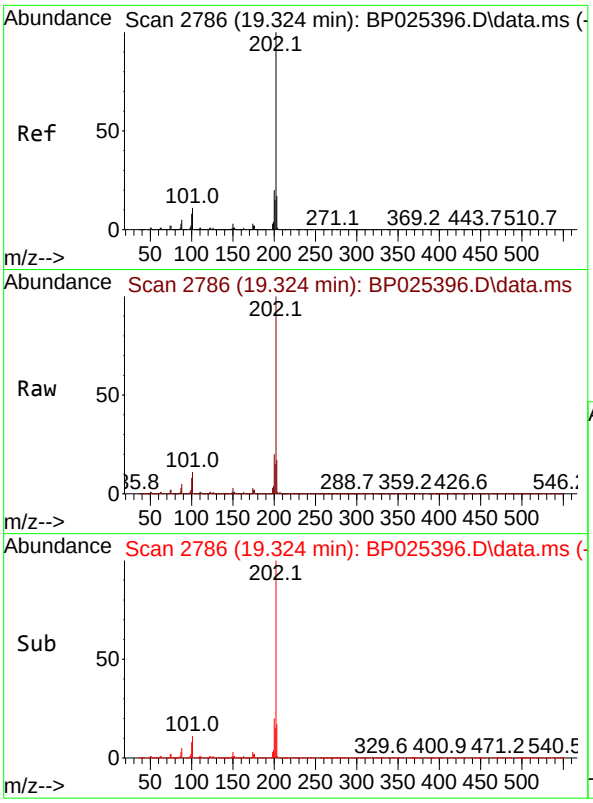


#74
Di-n-butylphthalate
Concen: 38.277 ng
RT: 18.207 min Scan# 2596
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:149 Resp: 2201043

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.4	11.0
104	5.2	4.2	6.2



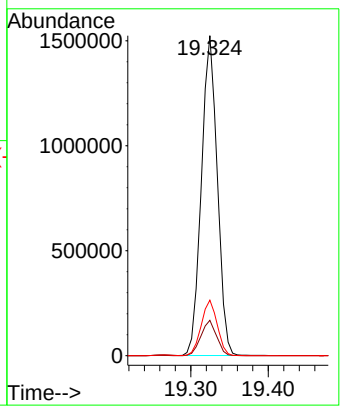


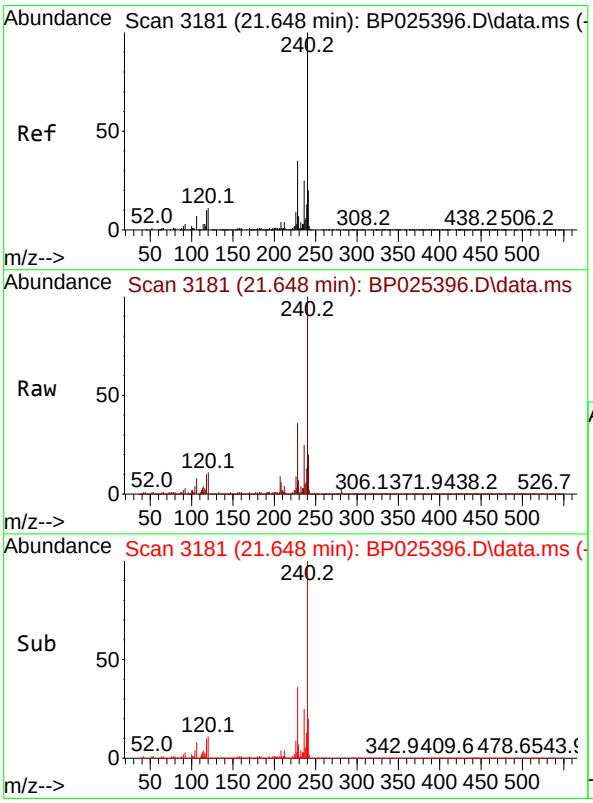
#75
Fluoranthene
Concen: 37.488 ng
RT: 19.324 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:202 Resp: 2172758

Ion	Ratio	Lower	Upper
202	100		
101	11.1	0.0	31.1
203	17.3	0.0	37.3

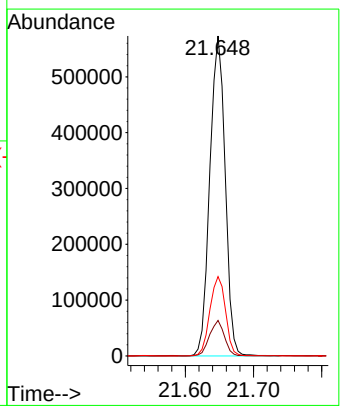


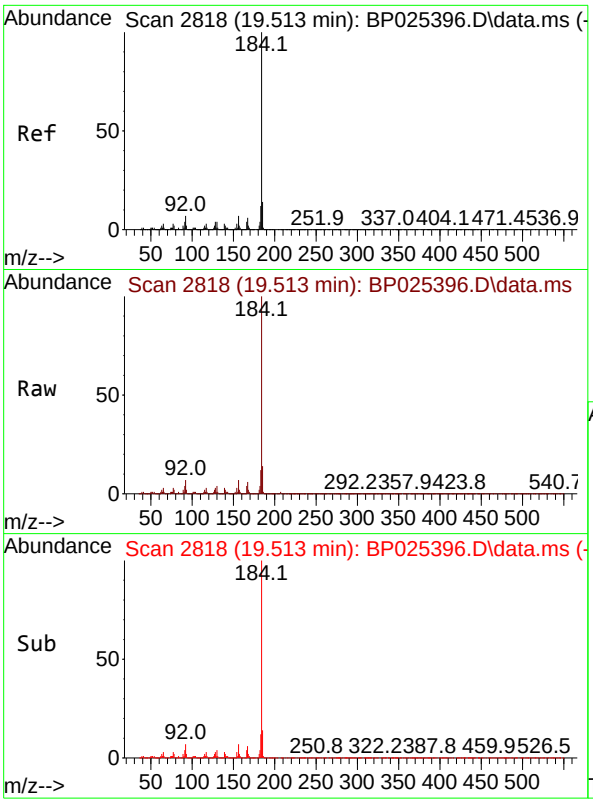


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.648 min Scan# 3181
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:240 Resp: 899207

Ion	Ratio	Lower	Upper
240	100		
120	11.1	8.9	13.3
236	24.8	19.8	29.8



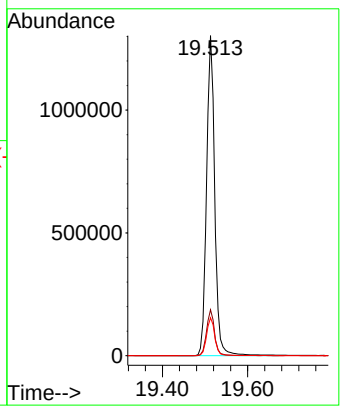


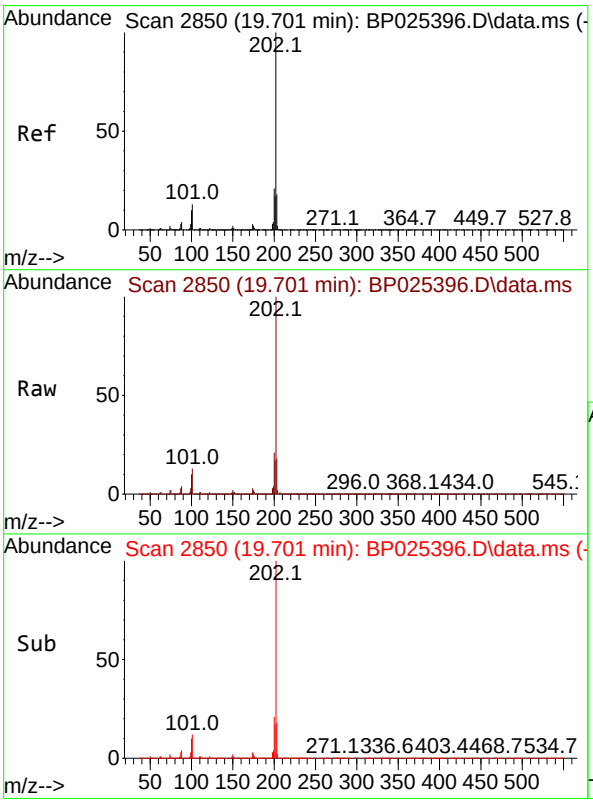
#77
Benzidine
Concen: 56.665 ng
RT: 19.513 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:184 Resp: 1738926

Ion	Ratio	Lower	Upper
184	100		
185	14.4	11.5	17.3
183	11.8	9.4	14.2

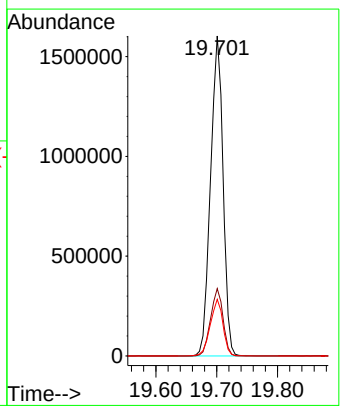


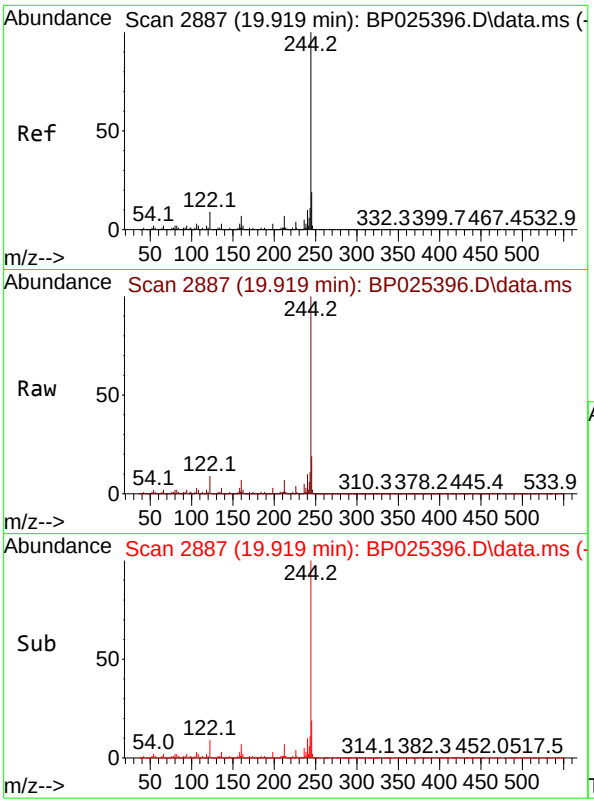


#78
Pyrene
Concen: 39.189 ng
RT: 19.701 min Scan# 2850
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:202 Resp: 2290461

Ion	Ratio	Lower	Upper
202	100		
200	21.1	16.9	25.3
203	17.7	14.2	21.2



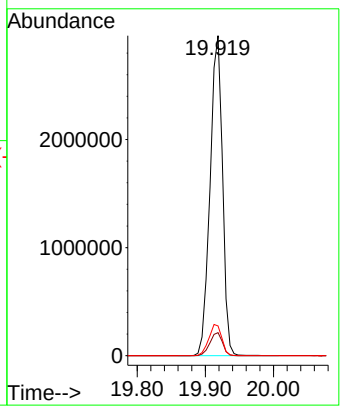


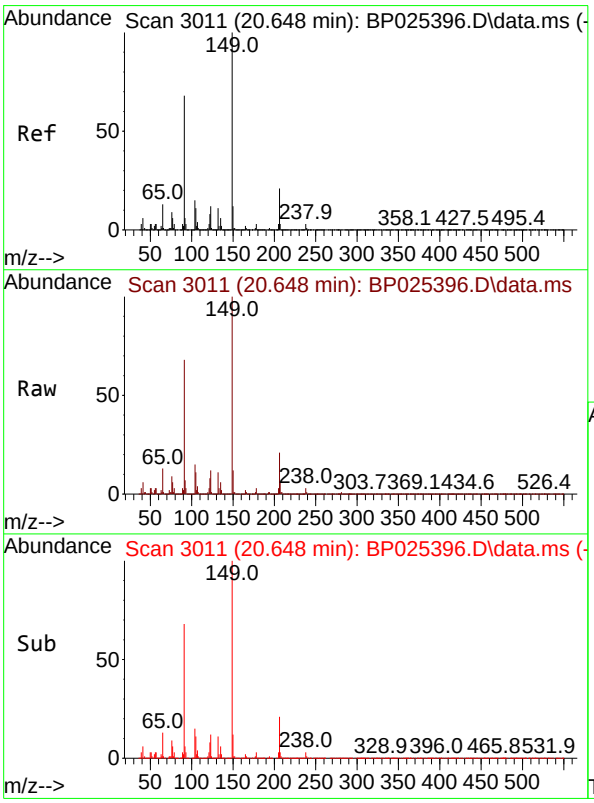
#79
Terphenyl-d14
Concen: 76.508 ng
RT: 19.919 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:244 Resp: 3760236

Ion	Ratio	Lower	Upper
244	100		
212	7.2	5.8	8.6
122	9.3	7.4	11.2

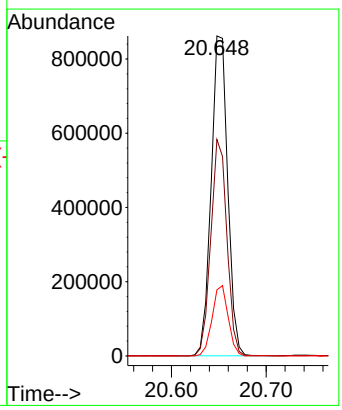


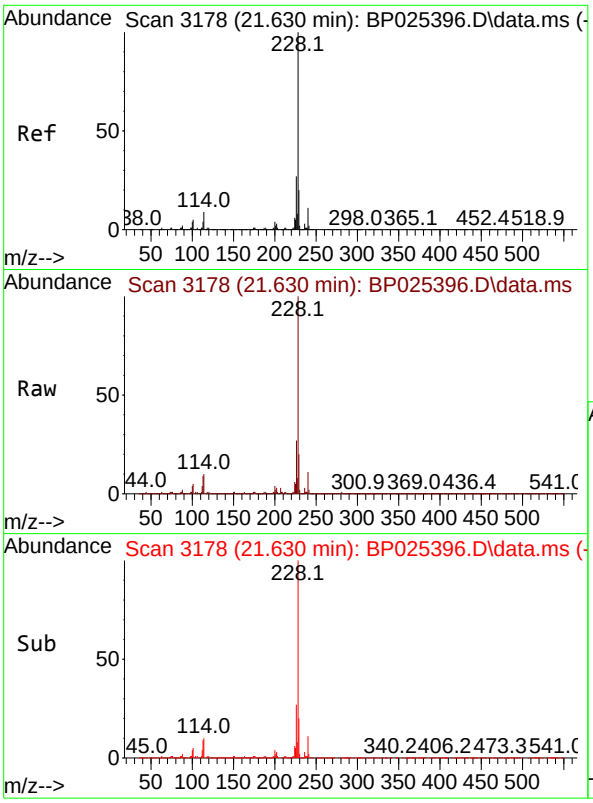


#80
Butylbenzylphthalate
Concen: 39.338 ng
RT: 20.648 min Scan# 3011
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:149 Resp: 1041998

Ion	Ratio	Lower	Upper
149	100		
91	67.7	54.2	81.2
206	20.7	16.6	24.8



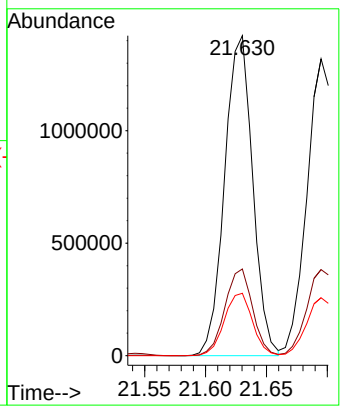


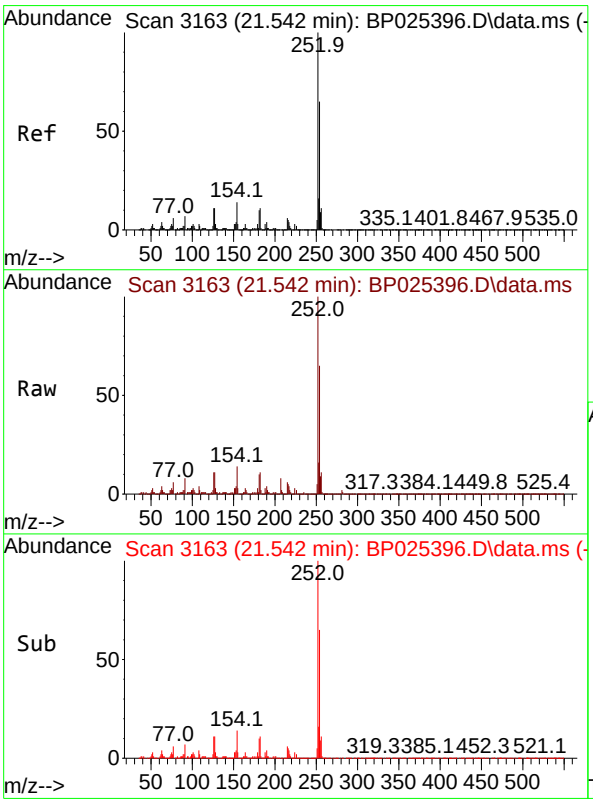
#81
Benzo(a)anthracene
Concen: 38.460 ng
RT: 21.630 min Scan# 3
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:228 Resp: 2280774

Ion	Ratio	Lower	Upper
228	100		
226	27.1	21.7	32.5
229	19.5	15.6	23.4

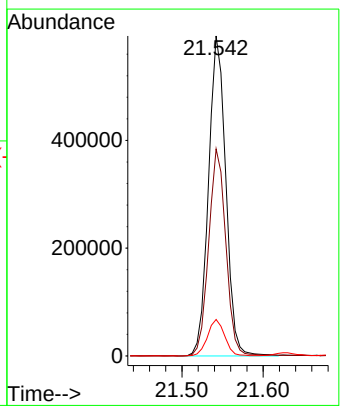


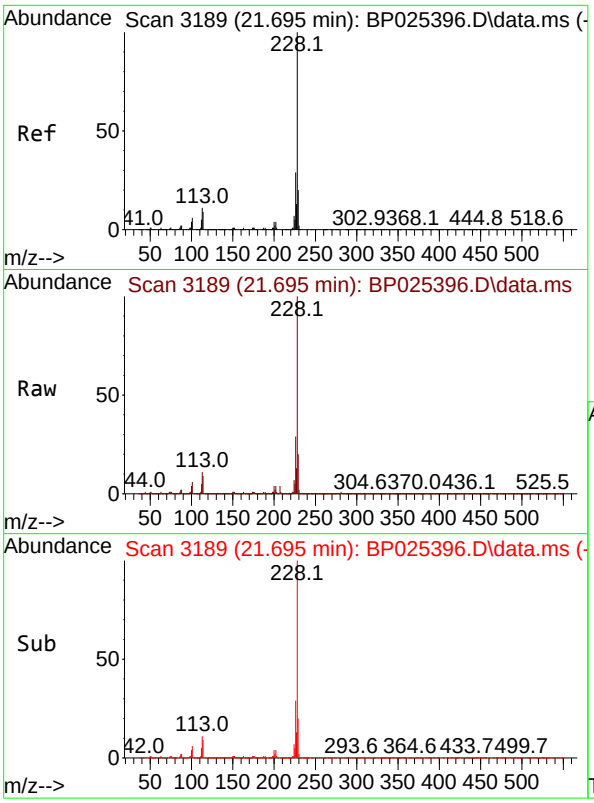


#82
3,3'-Dichlorobenzidine
Concen: 39.266 ng
RT: 21.542 min Scan# 3163
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:252 Resp: 877708

Ion	Ratio	Lower	Upper
252	100		
254	64.7	51.8	77.6
126	11.4	9.1	13.7



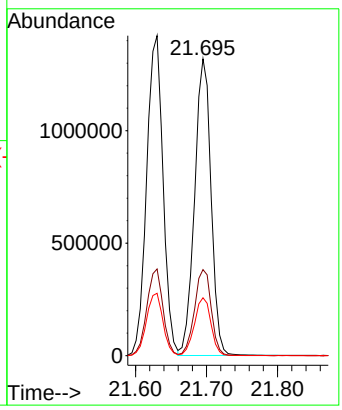


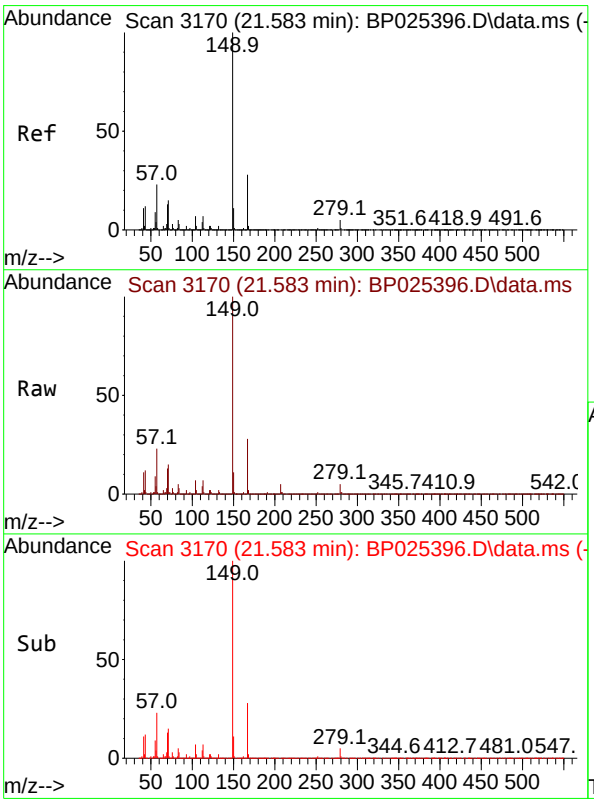
#83
Chrysene
Concen: 38.278 ng
RT: 21.695 min Scan# 3
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:228 Resp: 2125866

Ion	Ratio	Lower	Upper
228	100		
226	29.0	23.2	34.8
229	19.5	15.6	23.4

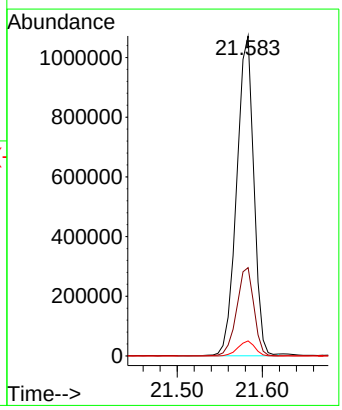


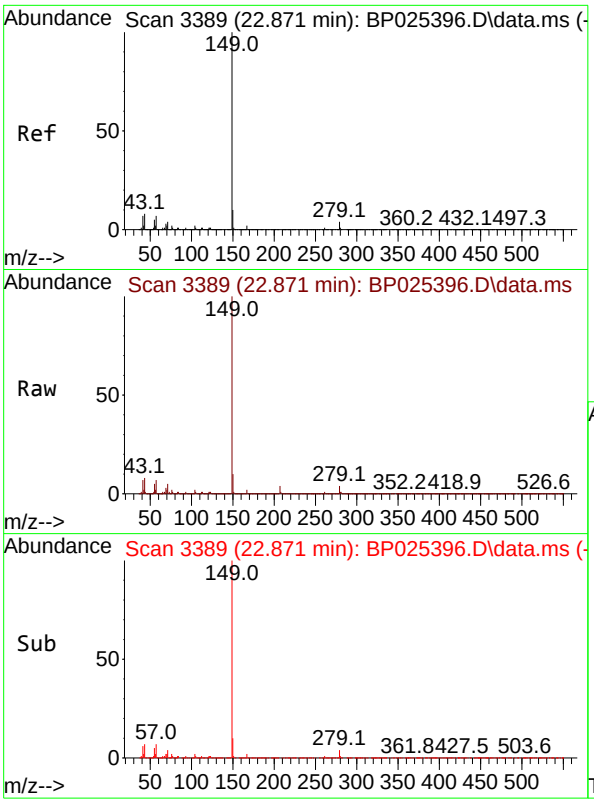


#84
Bis(2-ethylhexyl)phthalate
Concen: 38.310 ng
RT: 21.583 min Scan# 3170
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:149 Resp: 1493804

Ion	Ratio	Lower	Upper
149	100		
167	27.6	22.1	33.1
279	4.7	3.8	5.6



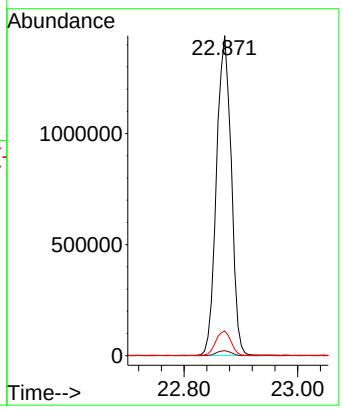


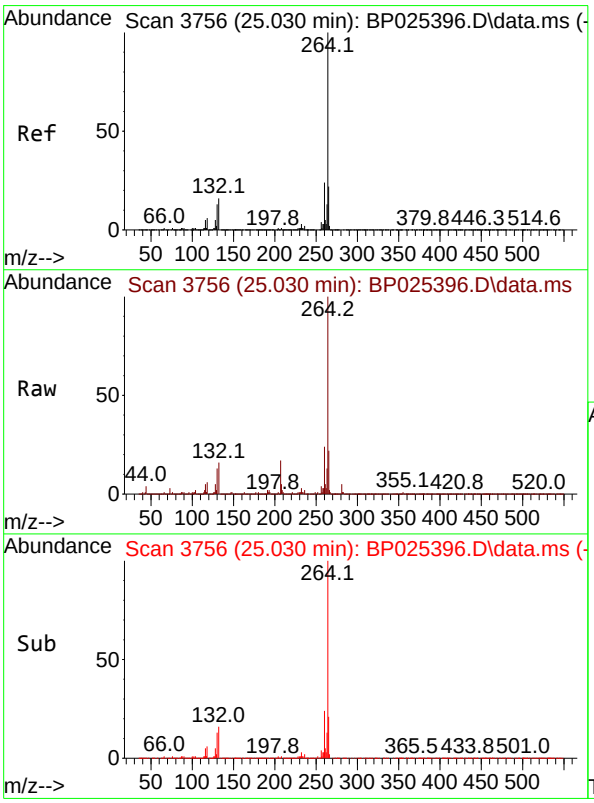
#85
Di-n-octyl phthalate
Concen: 38.730 ng
RT: 22.871 min Scan# 3
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:149 Resp: 2597558

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	7.9	6.3	9.5

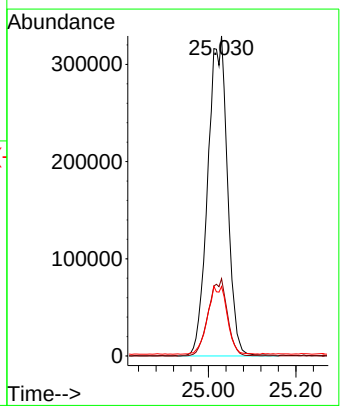


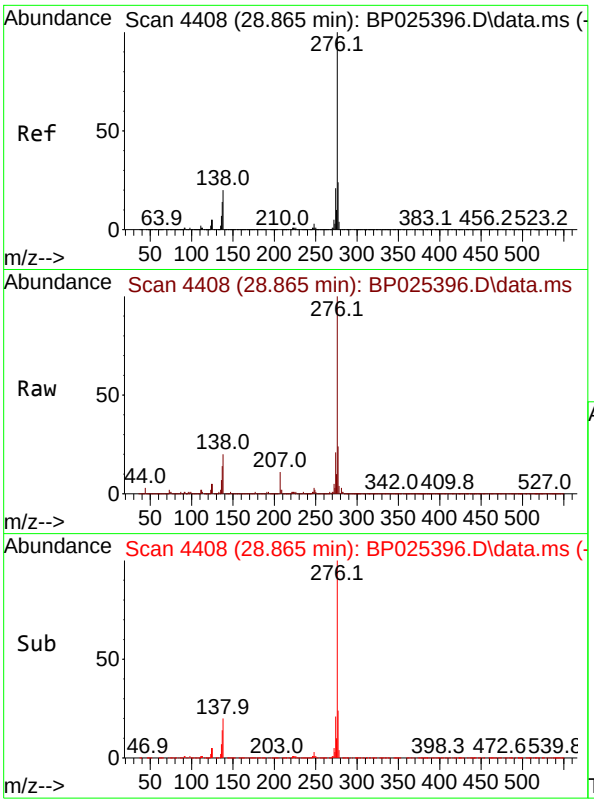


#86
Perylene-d12
Concen: 20.000 ng
RT: 25.030 min Scan# 3756
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:264 Resp: 1022138

Ion	Ratio	Lower	Upper
264	100		
260	24.1	19.3	28.9
265	21.7	17.4	26.0



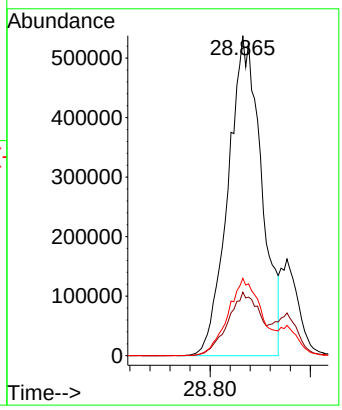


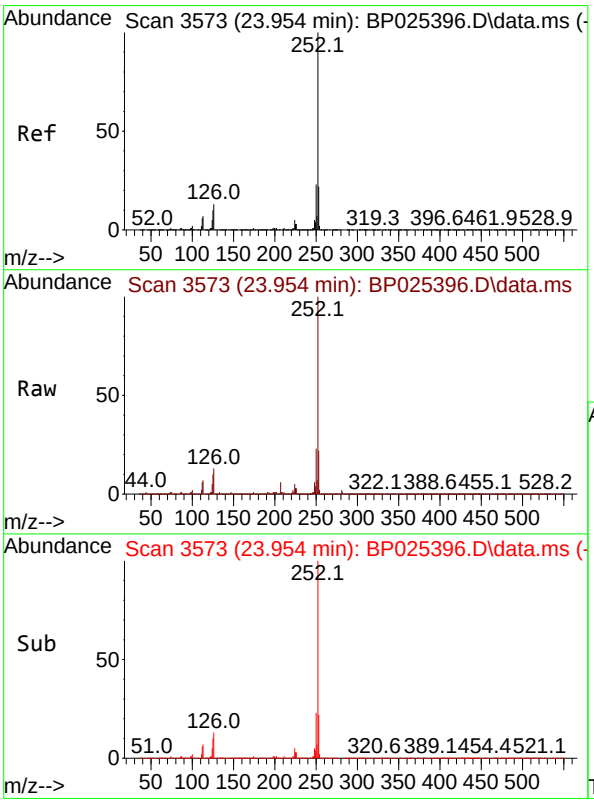
#87
Indeno(1,2,3-cd)pyrene
Concen: 33.216 ng
RT: 28.865 min Scan# 4
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:276 Resp: 2490737

Ion	Ratio	Lower	Upper
276	100		
138	18.7	12.9	19.3
277	24.7	17.0	25.6

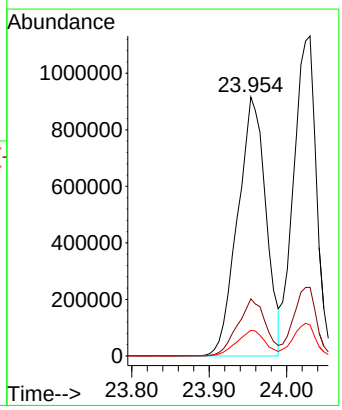


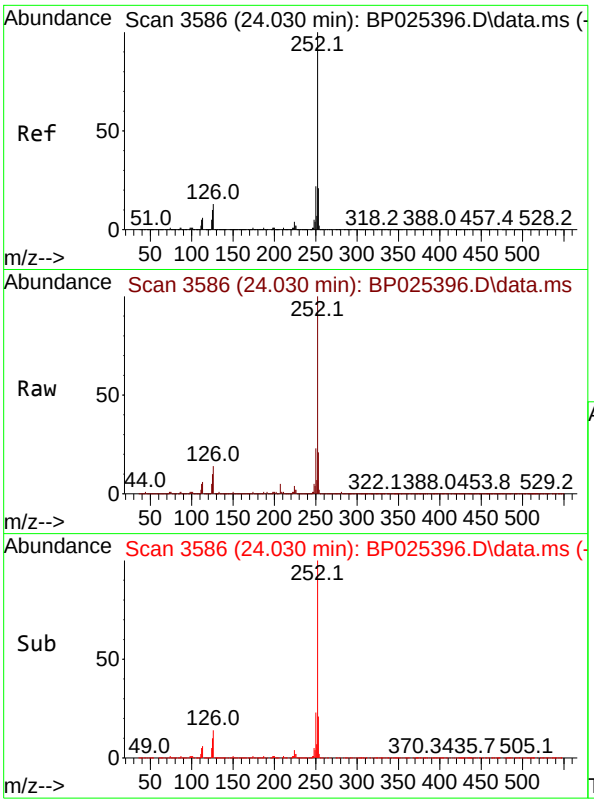


#88
Benzo(b)fluoranthene
Concen: 38.462 ng
RT: 23.954 min Scan# 3573
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:252 Resp: 2318198

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.7	26.5
125	9.9	7.9	11.9



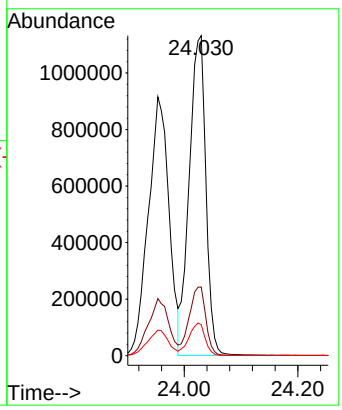


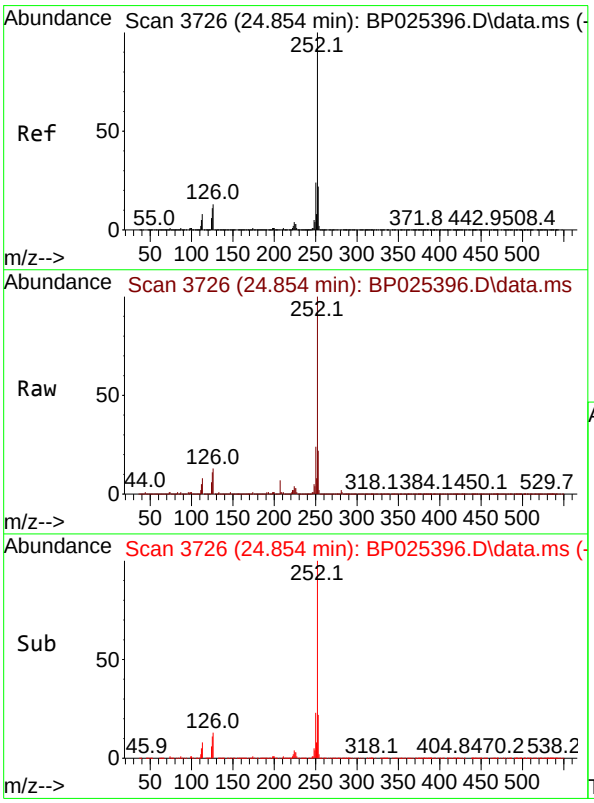
#89
Benzo(k)fluoranthene
Concen: 38.285 ng
RT: 24.030 min Scan# 3
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:252 Resp: 2309091

Ion	Ratio	Lower	Upper
252	100		
253	21.4	17.1	25.7
125	9.7	7.8	11.6

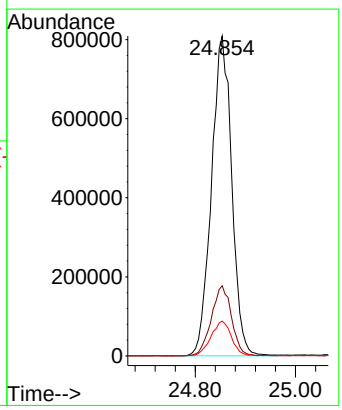


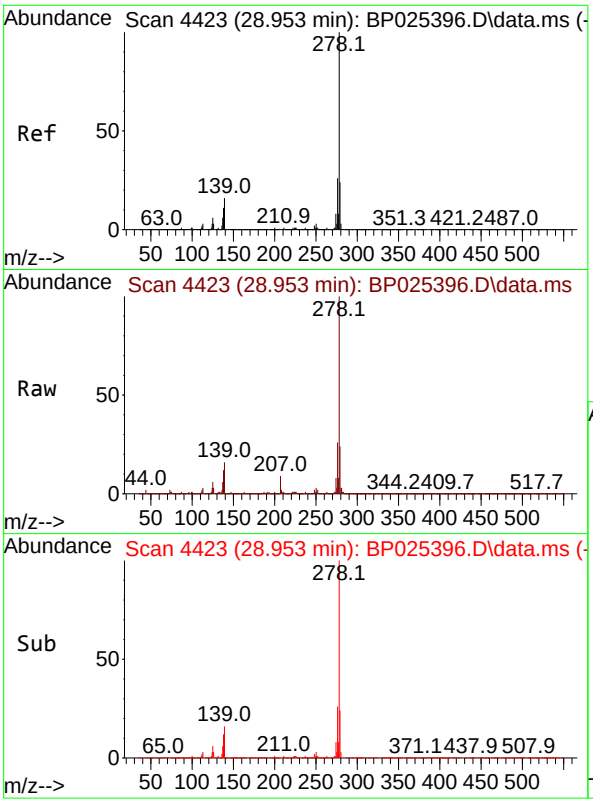


#90
Benzo(a)pyrene
Concen: 38.620 ng
RT: 24.854 min Scan# 3726
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:252 Resp: 2265862

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.5	26.3
125	10.9	8.7	13.1



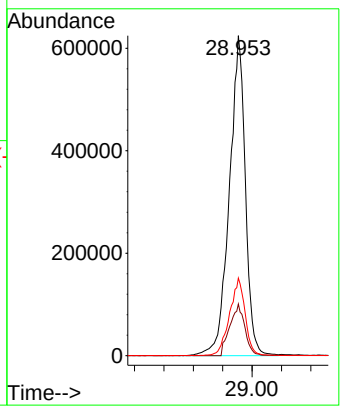


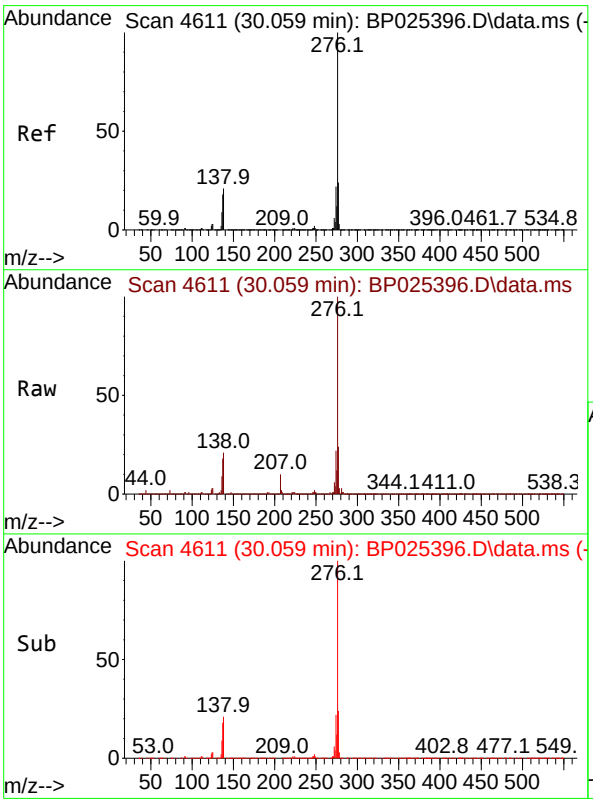
#91
Dibenzo(a,h)anthracene
Concen: 38.589 ng
RT: 28.953 min Scan# 4
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:278 Resp: 2363840

Ion	Ratio	Lower	Upper
278	100		
139	16.2	13.0	19.4
279	24.3	19.4	29.2

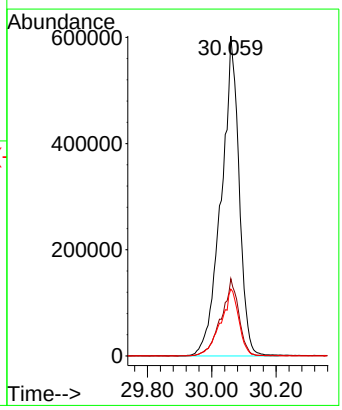




#92
Benzo(g,h,i)perylene
Concen: 38.654 ng
RT: 30.059 min Scan# 4611
Delta R.T. 0.000 min
Lab File: BP025396.D
Acq: 14 Aug 2025 15:19

Tgt Ion:276 Resp: 2327292

Ion	Ratio	Lower	Upper
276	100		
277	24.2	19.4	29.0
138	20.9	16.7	25.1



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081425\
Data File : BP025397.D
Acq On : 14 Aug 2025 16:01
Operator : CG/JU
Sample : SSTDICC050
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Quant Time: Aug 14 17:57:10 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 17:44:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.790	152	137945	20.000	ng	0.00
21) Naphthalene-d8	10.560	136	573916	20.000	ng	0.00
39) Acenaphthene-d10	14.407	164	376731	20.000	ng	0.00
64) Phenanthrene-d10	17.201	188	753705	20.000	ng	0.00
76) Chrysene-d12	21.648	240	801742	20.000	ng	0.00
86) Perylene-d12	25.036	264	918939	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.408	112	855256	102.963	ng	0.00
7) Phenol-d6	6.966	99	1131869	106.283	ng	0.00
23) Nitrobenzene-d5	8.937	82	1201601	105.910	ng	0.00
42) 2,4,6-Tribromophenol	15.913	330	539295	106.352	ng	0.00
45) 2-Fluorobiphenyl	13.019	172	2856639	103.632	ng	0.00
79) Terphenyl-d14	19.925	244	4409094	100.615	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.331	88	165184	50.769	ng	98
3) Pyridine	3.725	79	454022	50.983	ng	97
4) n-Nitrosodimethylamine	3.631	42	192837	52.524	ng	99
6) Aniline	7.125	93	756782	52.743	ng	100
8) 2-Chlorophenol	7.366	128	492570	52.550	ng	99
9) Benzaldehyde	6.943	77	435174	58.325	ng	97
10) Phenol	6.996	94	588764	52.687	ng	99
11) bis(2-Chloroethyl)ether	7.219	93	455697	52.320	ng	99
12) 1,3-Dichlorobenzene	7.684	146	536261	51.884	ng	99
13) 1,4-Dichlorobenzene	7.825	146	550541	52.113	ng	99
14) 1,2-Dichlorobenzene	8.143	146	528750	51.705	ng	99
15) Benzyl Alcohol	8.025	79	443889	52.458	ng	98
16) 2,2'-oxybis(1-Chloropr...	8.319	45	603716	51.742	ng	99
17) 2-Methylphenol	8.225	107	412974	53.211	ng	98
18) Hexachloroethane	8.866	117	202672	52.178	ng	96
19) n-Nitroso-di-n-propyla...	8.590	70	363151	51.419	ng	98
20) 3+4-Methylphenols	8.549	107	565208	52.538	ng	99
22) Acetophenone	8.602	105	750308	52.131	ng	100
24) Nitrobenzene	8.978	77	537647	53.024	ng	98
25) Isophorone	9.502	82	1047736	52.182	ng	99
26) 2-Nitrophenol	9.678	139	282682	54.323	ng	98
27) 2,4-Dimethylphenol	9.737	122	481502	53.806	ng	97
28) bis(2-Chloroethoxy)met...	9.972	93	630027	51.909	ng	99
29) 2,4-Dichlorophenol	10.213	162	475406	53.478	ng	99
30) 1,2,4-Trichlorobenzene	10.431	180	507724	52.101	ng	99
31) Naphthalene	10.607	128	1560240	52.305	ng	100
32) Benzoic acid	9.884	122	357706	54.274	ng	96
33) 4-Chloroaniline	10.713	127	705562	53.548	ng	99
34) Hexachlorobutadiene	10.902	225	312163	51.436	ng	98
35) Caprolactam	11.502	113	172663	52.969	ng	94
36) 4-Chloro-3-methylphenol	11.843	107	534583	52.407	ng	100
37) 2-Methylnaphthalene	12.219	142	1003813	51.710	ng	99
38) 1-Methylnaphthalene	12.443	142	1076949	52.167	ng	99
40) 1,2,4,5-Tetrachloroben...	12.590	216	574152	52.769	ng	99
41) Hexachlorocyclopentadiene	12.572	237	364047	55.392	ng	98
43) 2,4,6-Trichlorophenol	12.831	196	396440	53.971	ng	99

Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081425\
Data File : BP025397.D
Acq On : 14 Aug 2025 16:01
Operator : CG/JU
Sample : SSTDICC050
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Quant Time: Aug 14 17:57:10 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 17:44:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	12.896	196	430061	53.421	ng		99
46) 1,1'-Biphenyl	13.231	154	1447968	52.922	ng		99
47) 2-Chloronaphthalene	13.272	162	1114922	52.344	ng		99
48) 2-Nitroaniline	13.472	65	338939	54.613	ng		98
49) Acenaphthylene	14.125	152	1875998	53.227	ng		100
50) Dimethylphthalate	13.860	163	1424127	51.622	ng		100
51) 2,6-Dinitrotoluene	13.966	165	312149	53.683	ng		97
52) Acenaphthene	14.472	154	1087721	52.577	ng		98
53) 3-Nitroaniline	14.301	138	362030	55.339	ng		99
54) 2,4-Dinitrophenol	14.507	184	175453	56.503	ng		98
55) Dibenzofuran	14.813	168	1705630	52.147	ng		99
56) 4-Nitrophenol	14.619	139	296227	55.103	ng		98
57) 2,4-Dinitrotoluene	14.766	165	450923	54.354	ng		97
58) Fluorene	15.466	166	1332448	51.627	ng		99
59) 2,3,4,6-Tetrachlorophenol	15.043	232	378743	53.281	ng		99
60) Diethylphthalate	15.243	149	1450033	51.728	ng		99
61) 4-Chlorophenyl-phenyle...	15.466	204	650101	50.647	ng		99
62) 4-Nitroaniline	15.478	138	364030	54.278	ng		99
63) Azobenzene	15.760	77	1262576	52.602	ng		99
65) 4,6-Dinitro-2-methylph...	15.542	198	262126	55.792	ng		98
66) n-Nitrosodiphenylamine	15.678	169	1195077	51.997	ng		100
67) 4-Bromophenyl-phenylether	16.372	248	433740	52.325	ng		99
68) Hexachlorobenzene	16.495	284	497906	51.816	ng		97
69) Atrazine	16.654	200	451704	52.479	ng		98
70) Pentachlorophenol	16.842	266	332839	54.872	ng		97
71) Phenanthrene	17.248	178	2139431	51.673	ng		100
72) Anthracene	17.337	178	2214911	52.385	ng		100
73) Carbazole	17.613	167	2093175	52.559	ng		99
74) Di-n-butylphthalate	18.213	149	2589522	52.849	ng		99
75) Fluoranthene	19.325	202	2563702	51.910	ng		99
77) Benzidine	19.513	184	1330198	48.615	ng		99
78) Pyrene	19.701	202	2644850	50.754	ng		100
80) Butylbenzylphthalate	20.660	149	1231376	52.139	ng		98
81) Benzo(a)anthracene	21.630	228	2723006	51.499	ng		100
82) 3,3'-Dichlorobenzidine	21.548	252	1043476	52.357	ng		99
83) Chrysene	21.701	228	2565856	51.817	ng		99
84) Bis(2-ethylhexyl)phtha...	21.577	149	1805478	51.933	ng		100
85) Di-n-octyl phthalate	22.877	149	3150824	52.690	ng		100
87) Indeno(1,2,3-cd)pyrene	28.859	276	1446981	21.464	ng	#	92
88) Benzo(b)fluoranthene	23.960	252	2870971	52.982	ng		100
89) Benzo(k)fluoranthene	24.042	252	2817276	51.956	ng		99
90) Benzo(a)pyrene	24.877	252	2800880	53.100	ng		99
91) Dibenzo(a,h)anthracene	28.965	278	2962622	53.795	ng		98
92) Benzo(g,h,i)perylene	30.053	276	1840881	34.009	ng		99

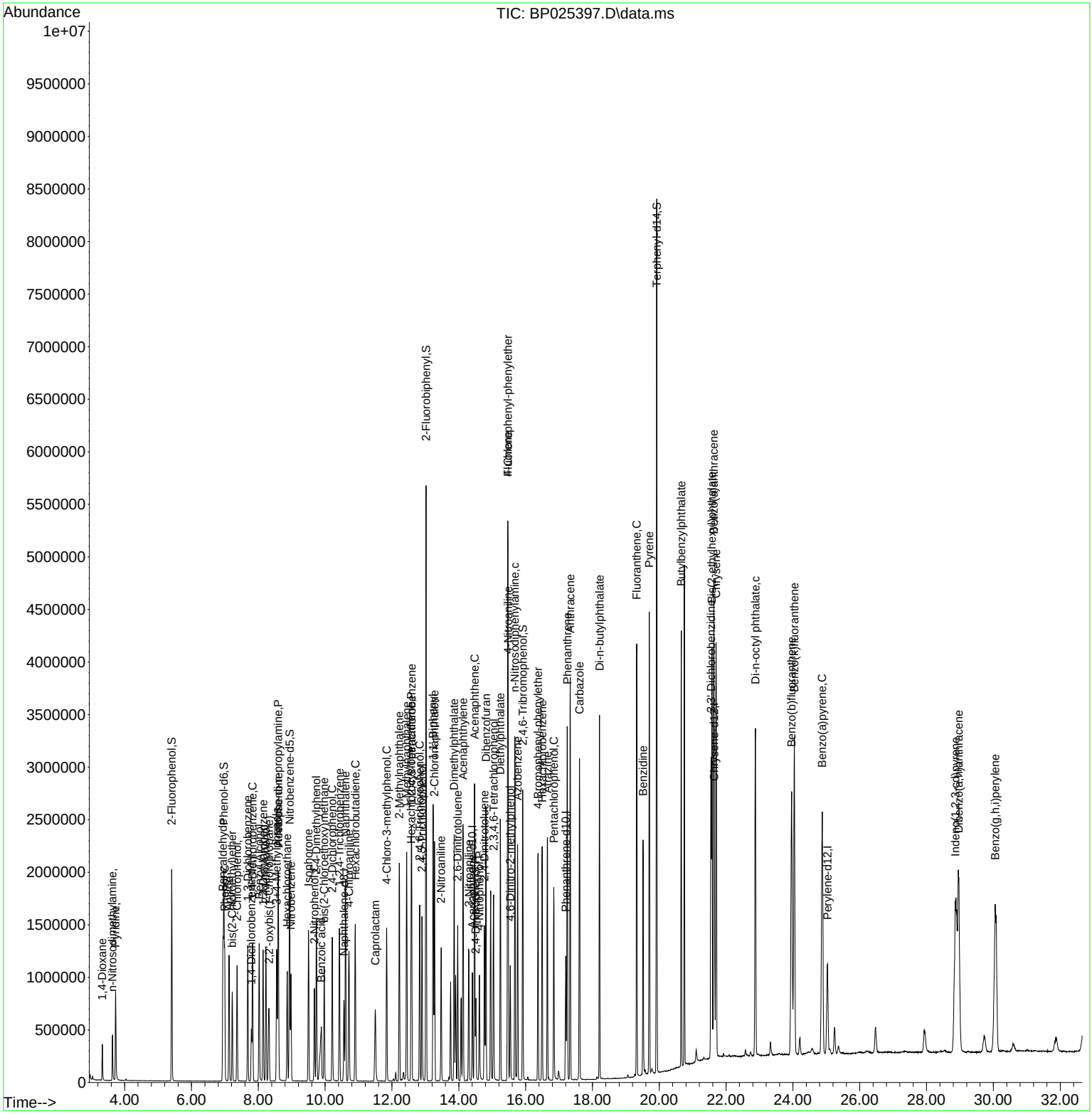
(#) = qualifier out of range (m) = manual integration (+) = signals summed

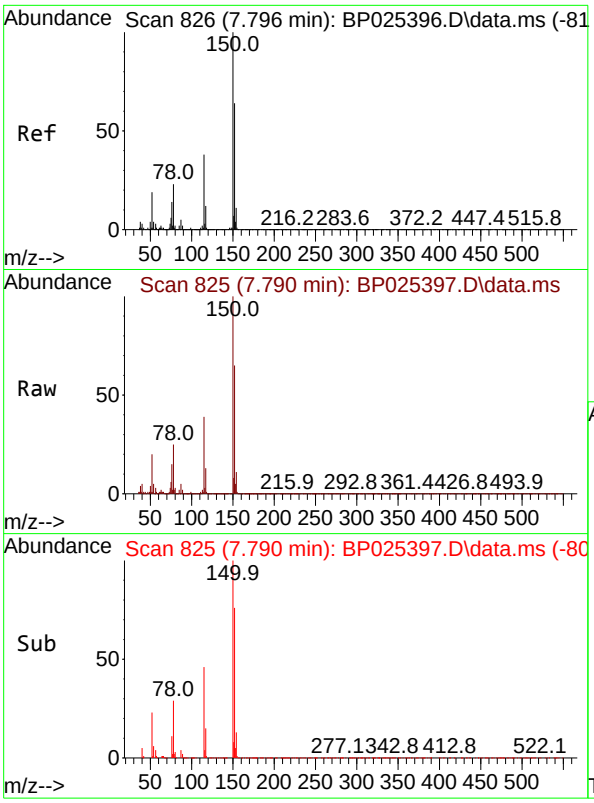
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081425\
Data File : BP025397.D
Acq On : 14 Aug 2025 16:01
Operator : CG/JU
Sample : SSTDICC050
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Quant Time: Aug 14 17:57:10 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 17:44:43 2025
Response via : Initial Calibration



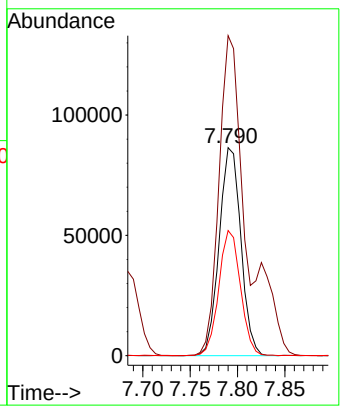


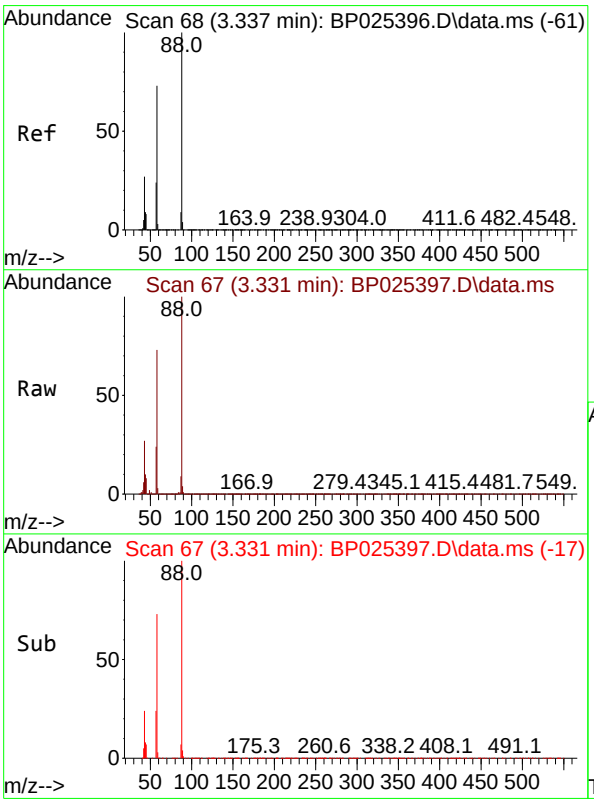
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.790 min Scan# 8
Delta R.T. -0.006 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:152 Resp: 137945

Ion	Ratio	Lower	Upper
152	100		
150	153.9	125.9	188.9
115	60.2	48.5	72.7

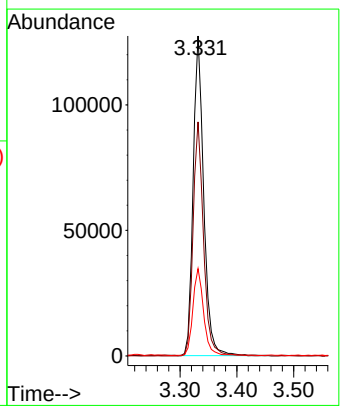


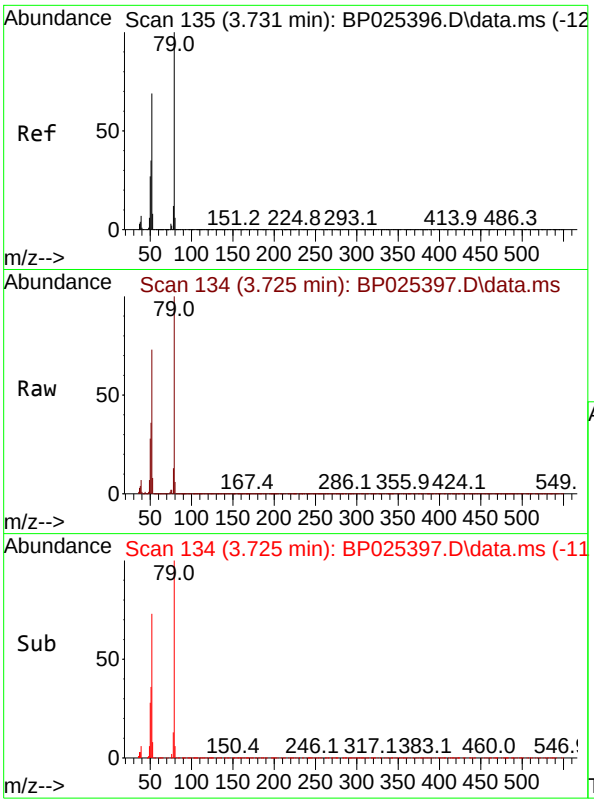


#2
1,4-Dioxane
Concen: 50.769 ng
RT: 3.331 min Scan# 67
Delta R.T. -0.006 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion: 88 Resp: 165184

Ion	Ratio	Lower	Upper
88	100		
58	72.6	59.2	88.8
43	27.8	21.7	32.5



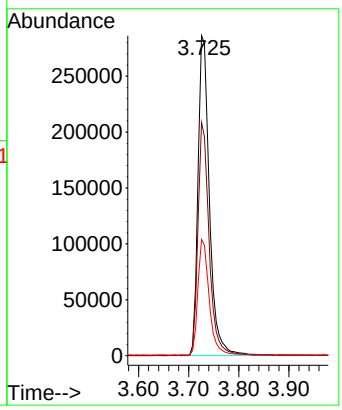


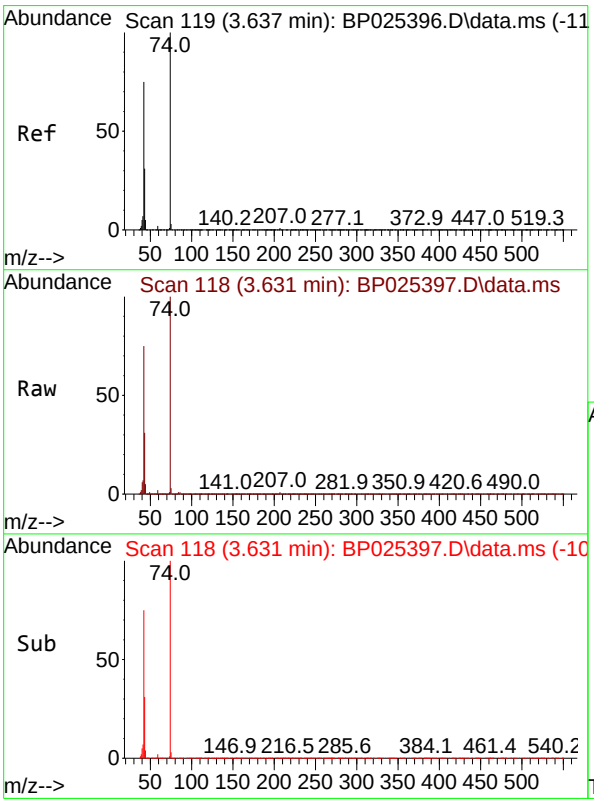
#3
Pyridine
Concen: 50.983 ng
RT: 3.725 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion: 79 Resp: 454022

Ion	Ratio	Lower	Upper
79	100		
52	72.9	55.5	83.3
51	36.3	28.3	42.5

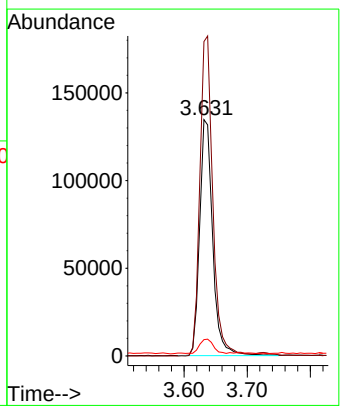


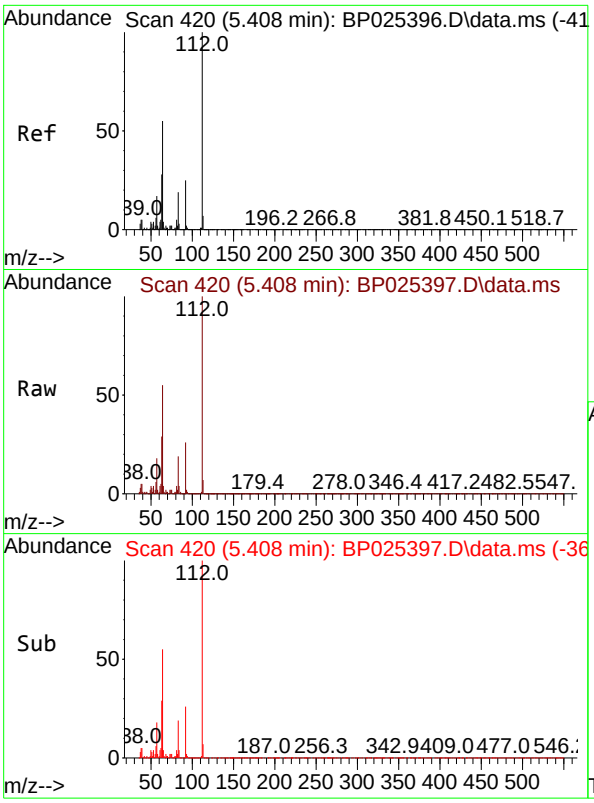


#4
n-Nitrosodimethylamine
Concen: 52.524 ng
RT: 3.631 min Scan# 118
Delta R.T. -0.006 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion: 42 Resp: 192837

Ion	Ratio	Lower	Upper
42	100		
74	133.0	107.0	160.4
44	6.9	6.2	9.4



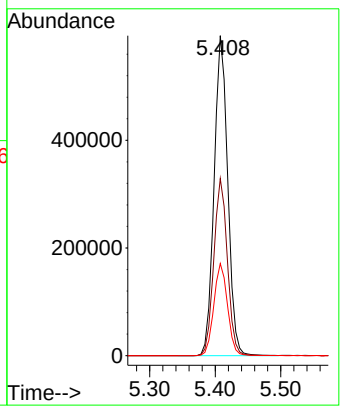


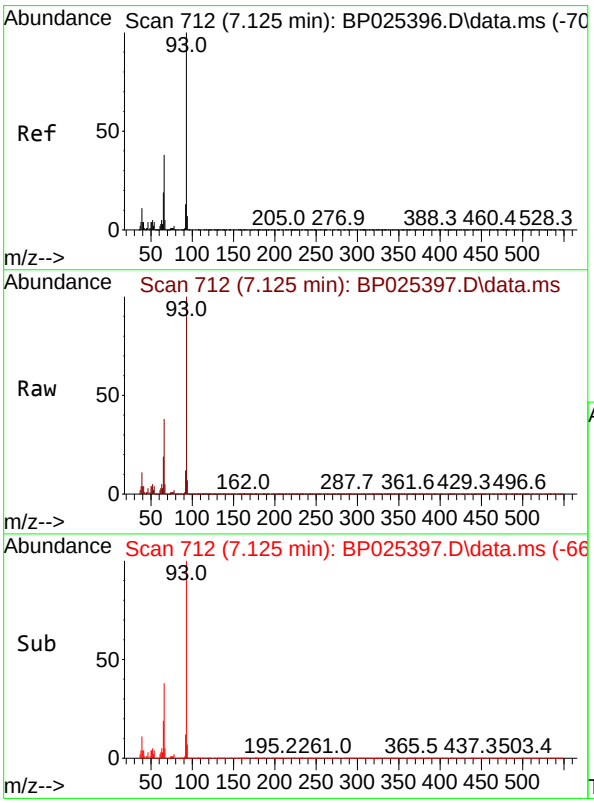
#5
2-Fluorophenol
Concen: 102.963 ng
RT: 5.408 min Scan# 4
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:112 Resp: 855256

Ion	Ratio	Lower	Upper
112	100		
64	55.4	43.8	65.8
63	28.8	22.7	34.1

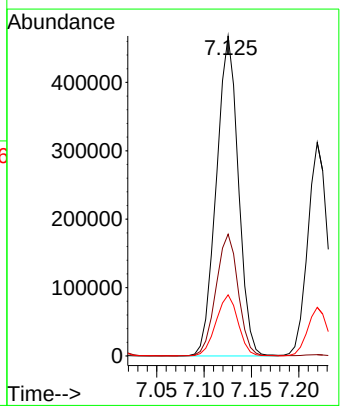


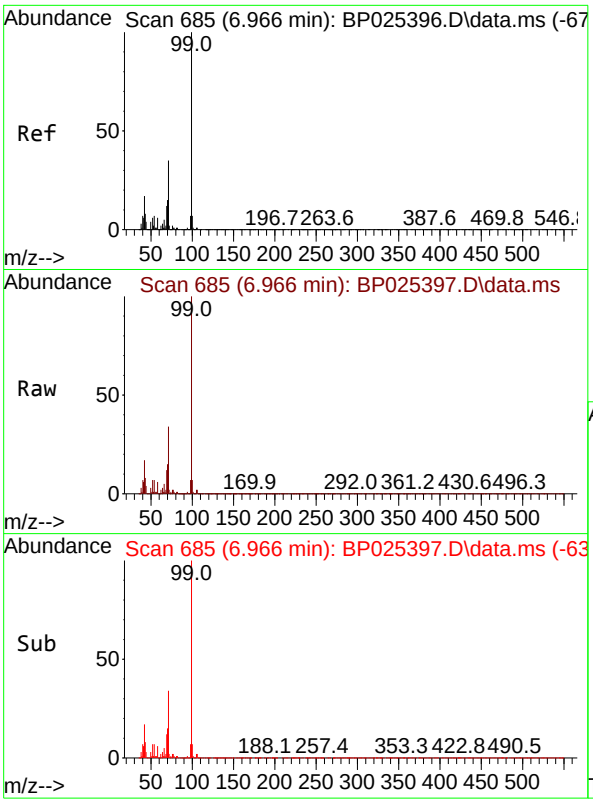


#6
Aniline
Concen: 52.743 ng
RT: 7.125 min Scan# 712
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion: 93 Resp: 756782

Ion	Ratio	Lower	Upper
93	100		
66	38.0	30.4	45.6
65	19.1	15.3	22.9



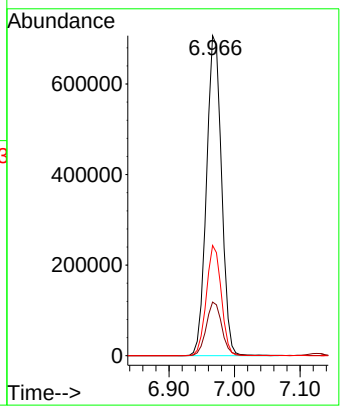


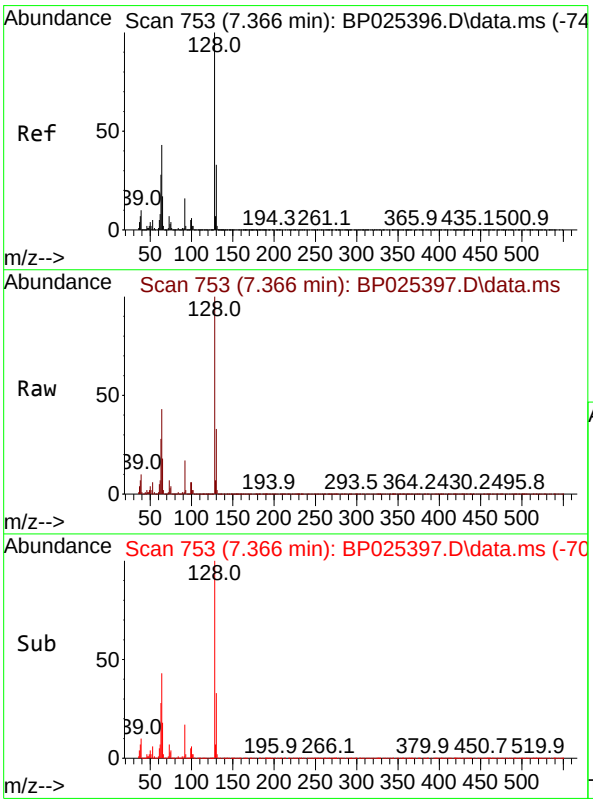
#7
Phenol-d6
Concen: 106.283 ng
RT: 6.966 min Scan# 6
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion: 99 Resp: 1131869

Ion	Ratio	Lower	Upper
99	100		
42	16.7	13.7	20.5
71	34.4	28.2	42.4

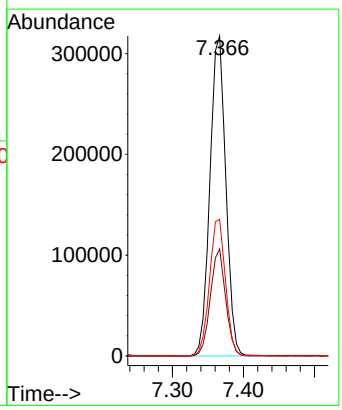


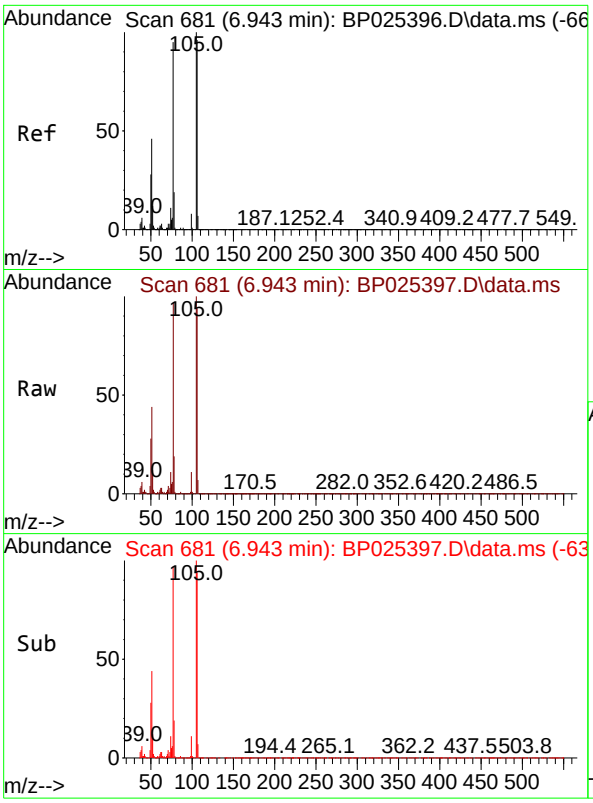


#8
2-Chlorophenol
Concen: 52.550 ng
RT: 7.366 min Scan# 753
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:128 Resp: 492570

Ion	Ratio	Lower	Upper
128	100		
130	33.4	12.6	52.6
64	42.7	23.4	63.4



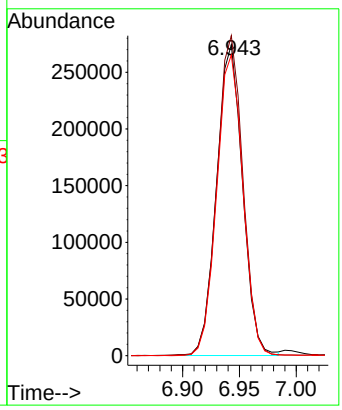


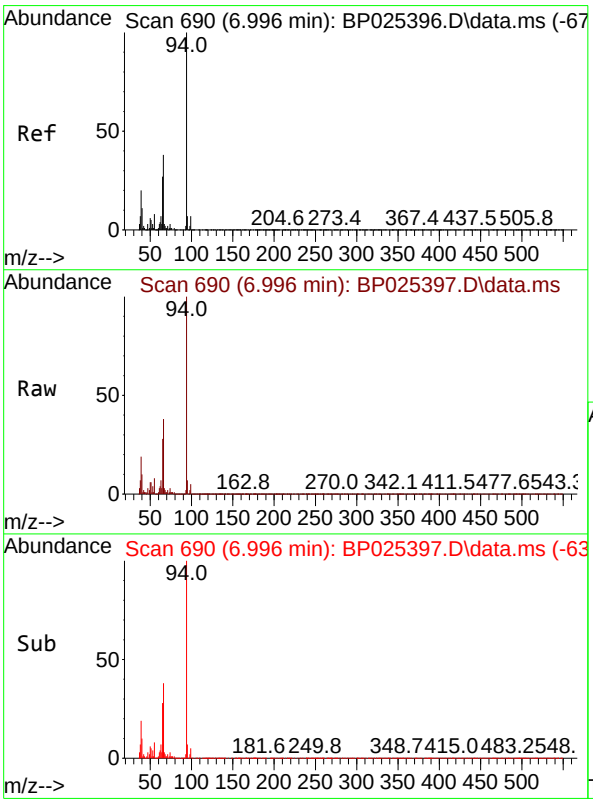
#9
Benzaldehyde
Concen: 58.325 ng
RT: 6.943 min Scan# 6
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion: 77 Resp: 435174

Ion	Ratio	Lower	Upper
77	100		
105	102.9	84.8	124.8
106	96.7	80.5	120.5

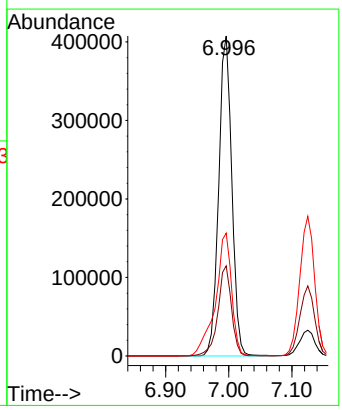


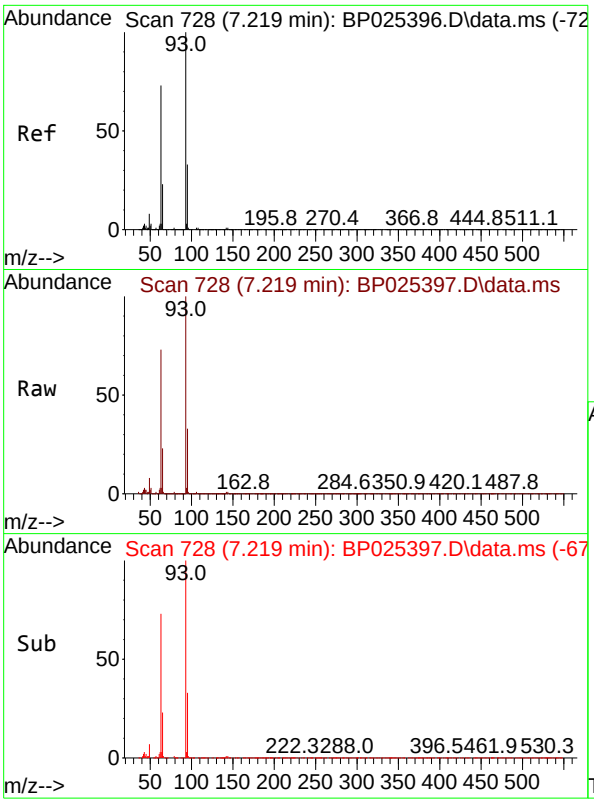


#10
Phenol
Concen: 52.687 ng
RT: 6.996 min Scan# 690
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion: 94 Resp: 588764

Ion	Ratio	Lower	Upper
94	100		
65	28.1	6.8	46.8
66	38.4	18.2	58.2



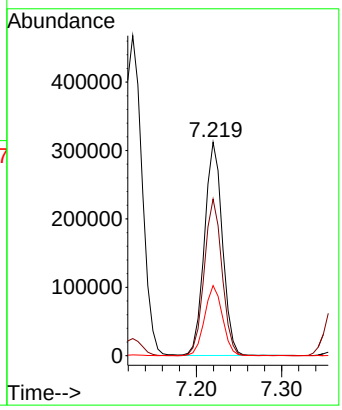


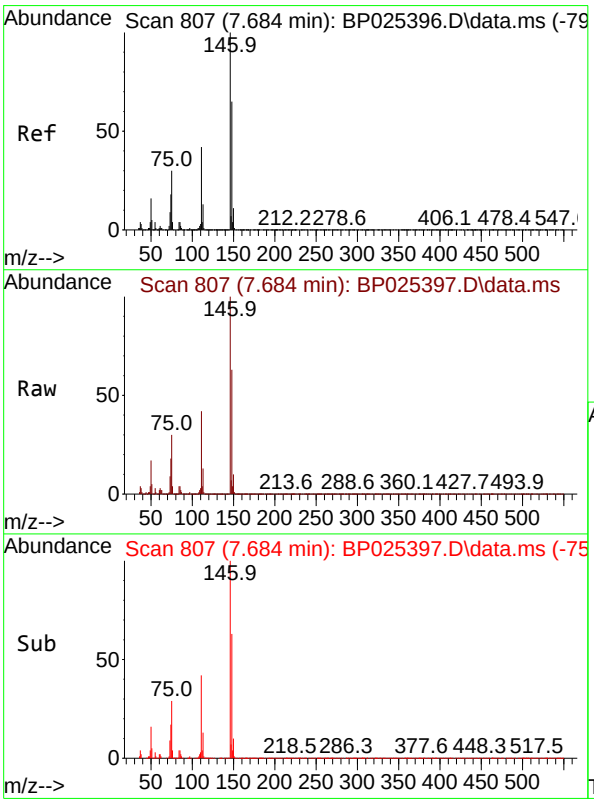
#11
bis(2-Chloroethyl)ether
Concen: 52.320 ng
RT: 7.219 min Scan# 7
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion: 93 Resp: 455697

Ion	Ratio	Lower	Upper
93	100		
63	73.4	52.6	92.6
95	32.9	12.7	52.7

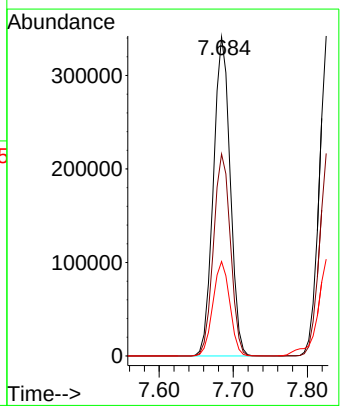


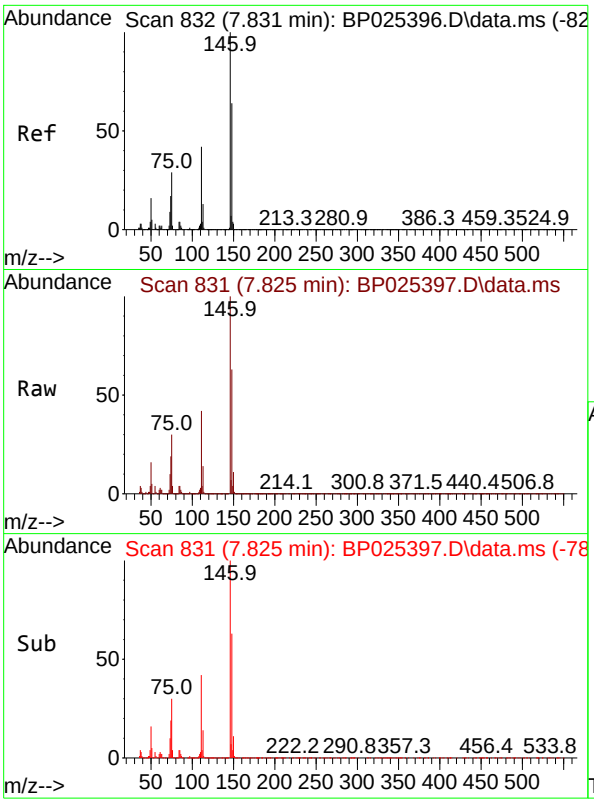


#12
1,3-Dichlorobenzene
Concen: 51.884 ng
RT: 7.684 min Scan# 807
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:146 Resp: 536261

Ion	Ratio	Lower	Upper
146	100		
148	63.3	51.9	77.9
75	29.6	23.7	35.5



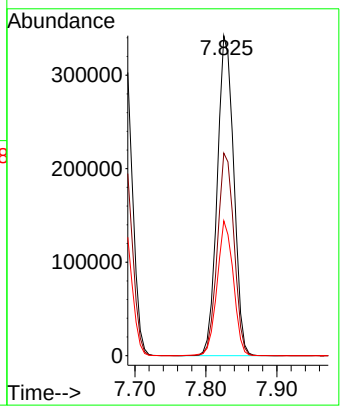


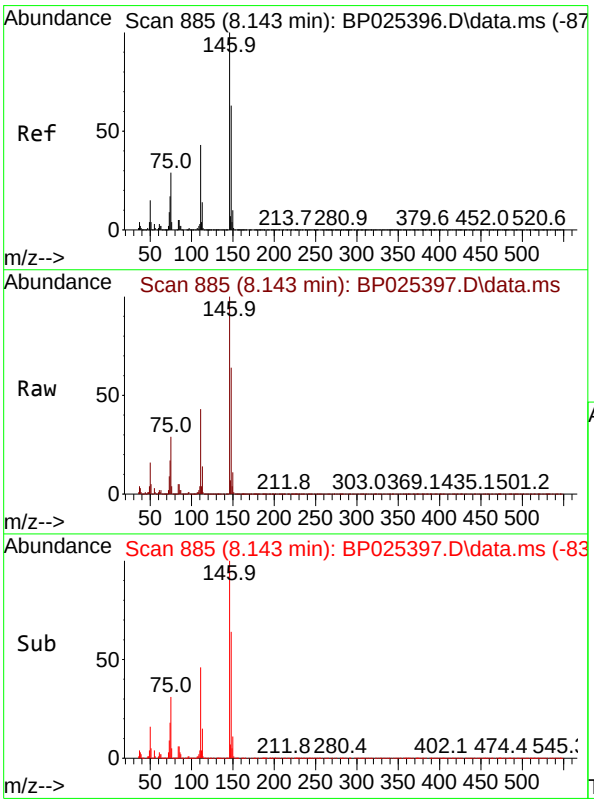
#13
1,4-Dichlorobenzene
Concen: 52.113 ng
RT: 7.825 min Scan# 8
Delta R.T. -0.006 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:146 Resp: 550541

Ion	Ratio	Lower	Upper
146	100		
148	63.3	51.6	77.4
111	42.2	33.4	50.0

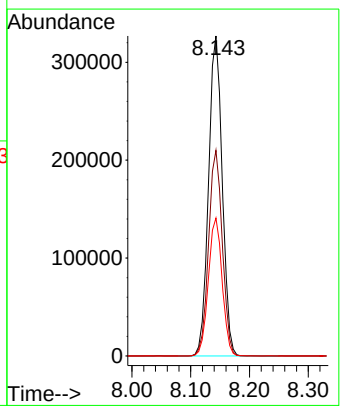


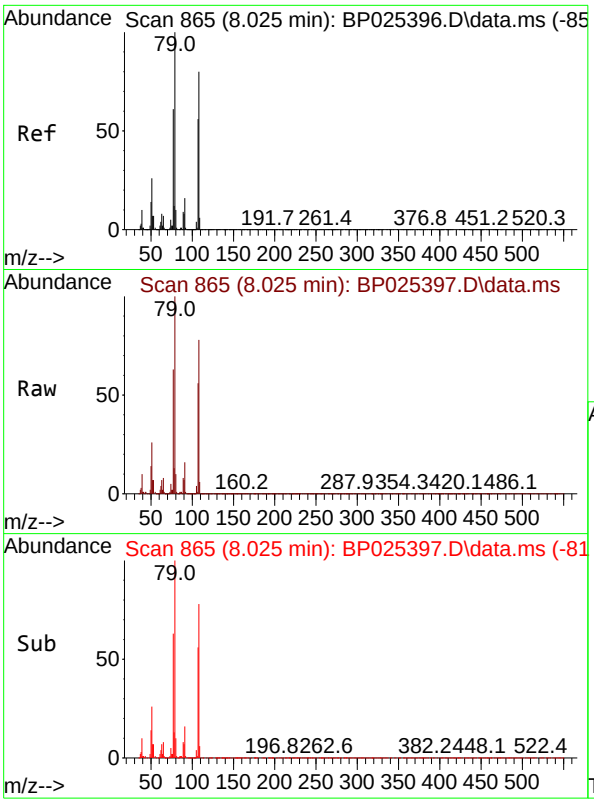


#14
1,2-Dichlorobenzene
Concen: 51.705 ng
RT: 8.143 min Scan# 885
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:146 Resp: 528750

Ion	Ratio	Lower	Upper
146	100		
148	64.3	50.4	75.6
111	43.1	34.5	51.7



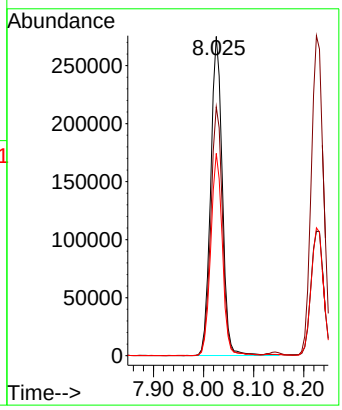


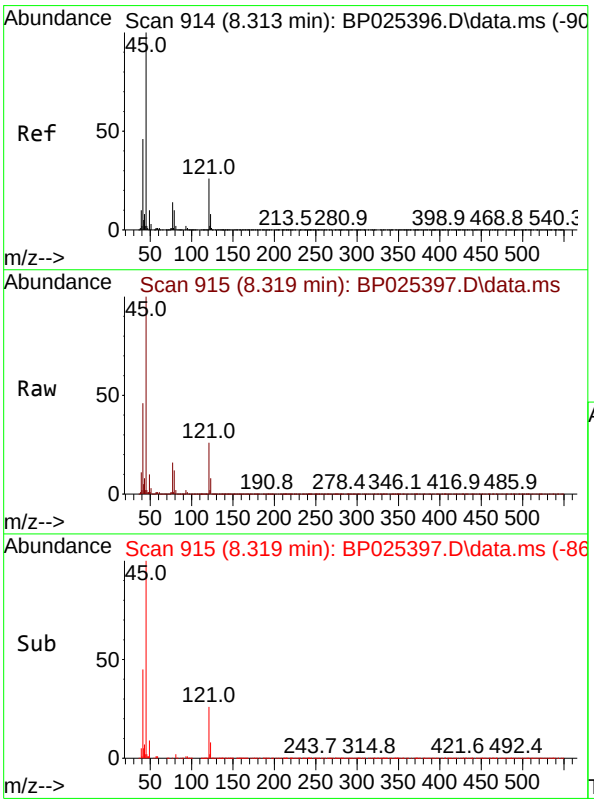
#15
Benzyl Alcohol
Concen: 52.458 ng
RT: 8.025 min Scan# 8
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion: 79 Resp: 443889

Ion	Ratio	Lower	Upper
79	100		
108	77.9	63.8	95.6
77	63.4	49.0	73.4

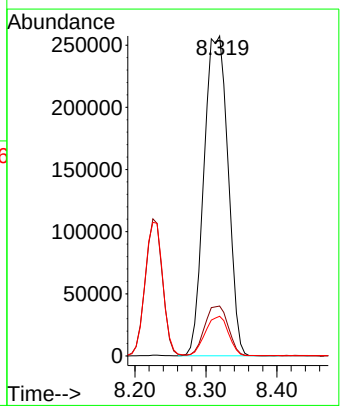


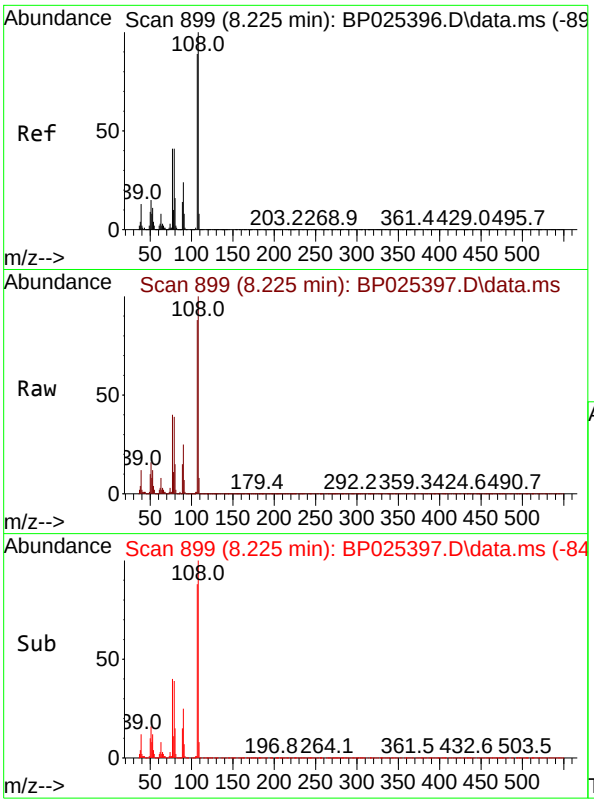


#16
2,2'-oxybis(1-Chloropropane)
Concen: 51.742 ng
RT: 8.319 min Scan# 915
Delta R.T. 0.006 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion: 45 Resp: 603716

Ion	Ratio	Lower	Upper
45	100		
77	15.6	0.0	35.3
79	12.4	0.0	31.8



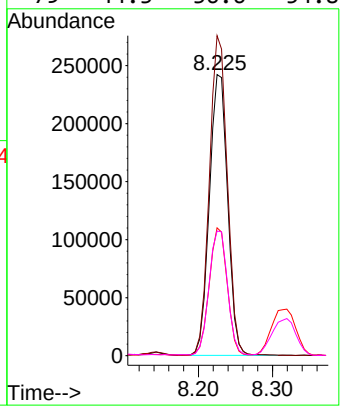


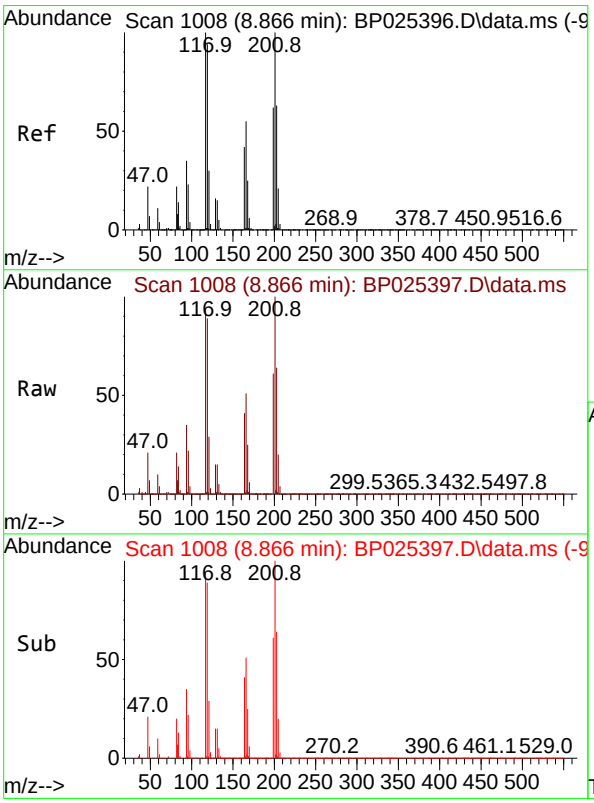
#17
2-Methylphenol
Concen: 53.211 ng
RT: 8.225 min Scan# 8
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:107 Resp: 412974

Ion	Ratio	Lower	Upper
107	100		
108	113.8	89.4	134.0
77	45.5	36.3	54.5
79	44.3	36.6	54.8

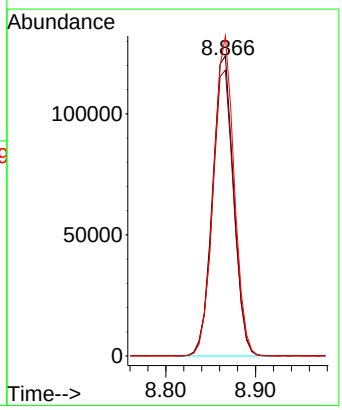


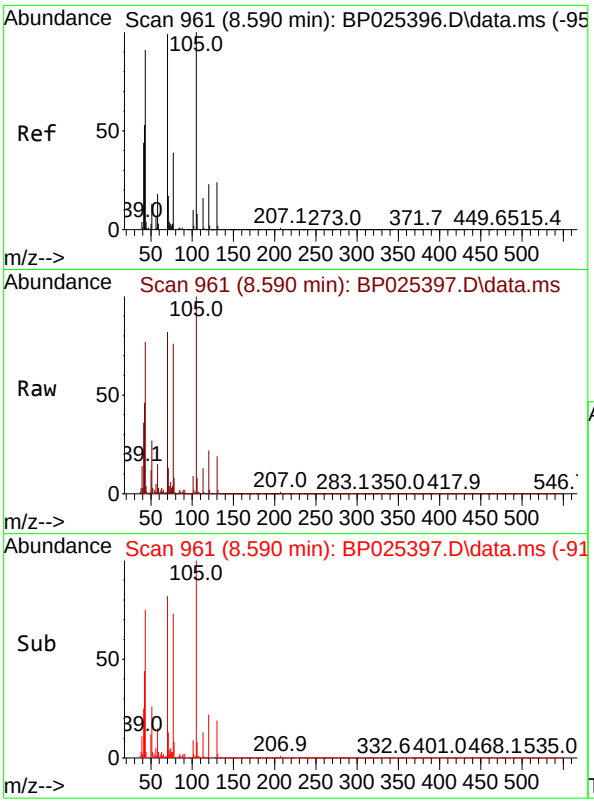


#18
Hexachloroethane
Concen: 52.178 ng
RT: 8.866 min Scan# 1008
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:117 Resp: 202672

Ion	Ratio	Lower	Upper
117	100		
119	95.4	75.1	112.7
201	106.7	80.1	120.1



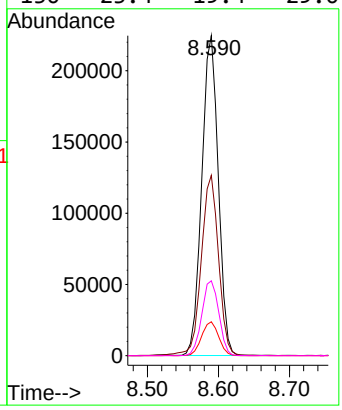


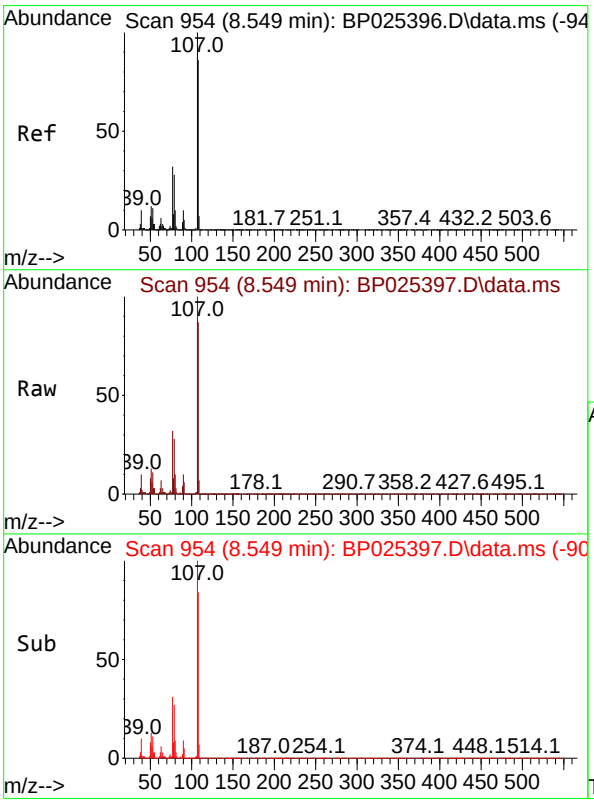
#19
n-Nitroso-di-n-propylamine
Concen: 51.419 ng
RT: 8.590 min Scan# 9
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion: 70 Resp: 363151

Ion	Ratio	Lower	Upper
70	100		
42	56.4	43.8	65.6
101	10.6	8.5	12.7
130	23.4	19.4	29.0

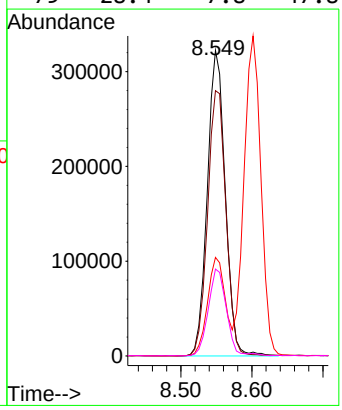


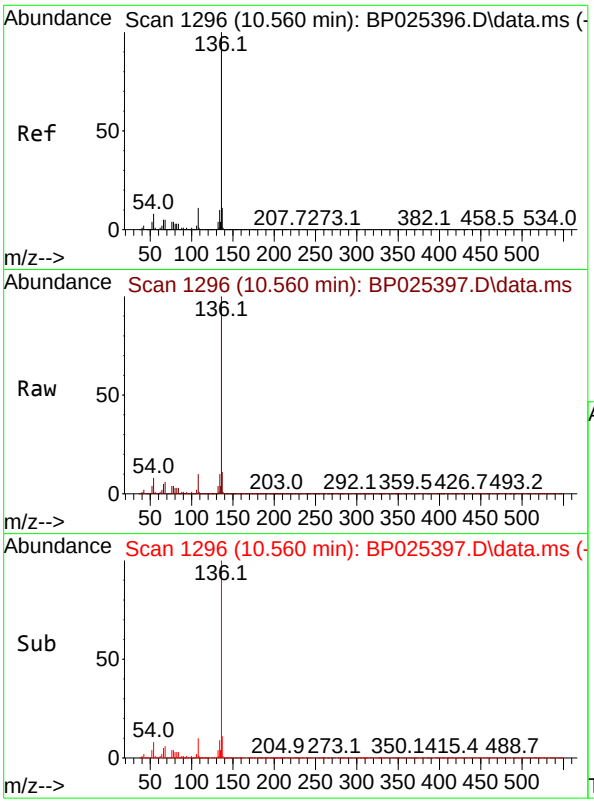


#20
3+4-Methylphenols
Concen: 52.538 ng
RT: 8.549 min Scan# 954
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:107 Resp: 565208

Ion	Ratio	Lower	Upper
107	100		
108	86.8	66.3	106.3
77	32.2	12.3	52.3
79	28.4	7.8	47.8



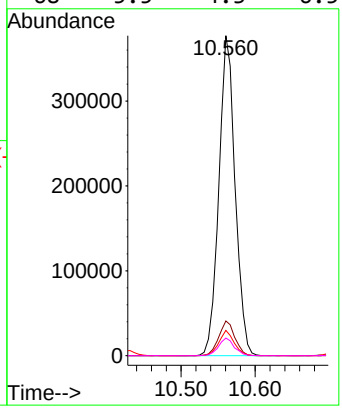


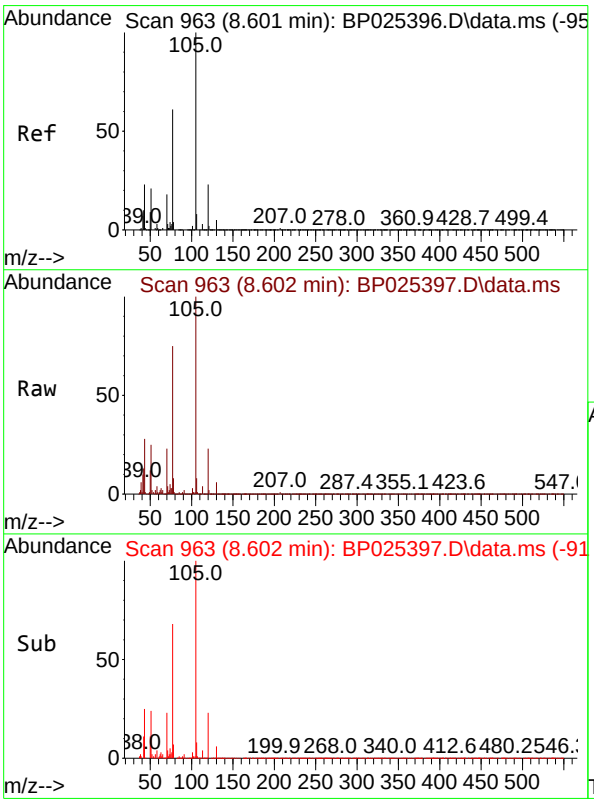
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.560 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:136 Resp: 573916

Ion	Ratio	Lower	Upper
136	100		
137	10.9	9.2	13.8
54	7.9	6.0	9.0
68	5.5	4.3	6.5

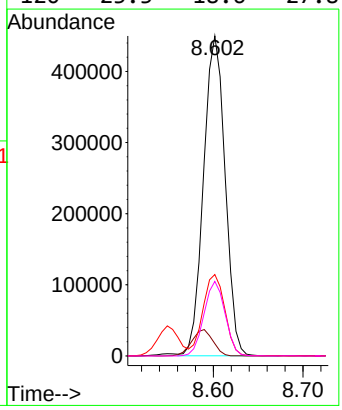


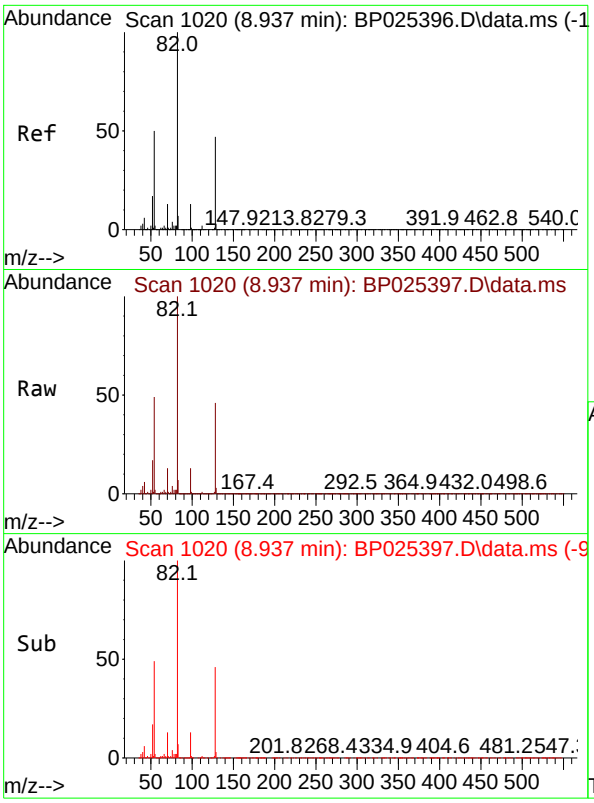


#22
Acetophenone
Concen: 52.131 ng
RT: 8.602 min Scan# 963
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:105 Resp: 750308

Ion	Ratio	Lower	Upper
105	100		
71	3.9	2.6	4.0
51	25.5	20.6	30.8
120	23.3	18.6	27.8



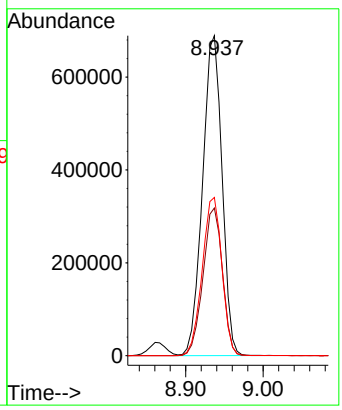


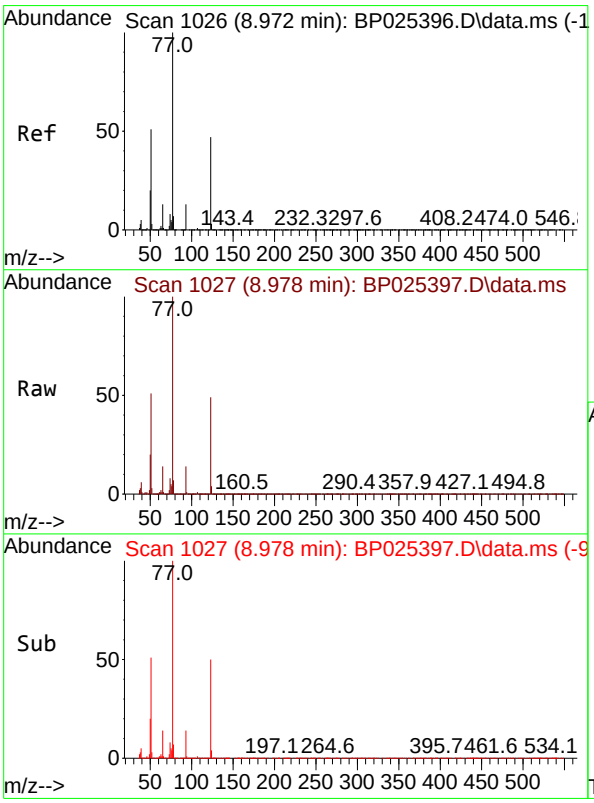
#23
Nitrobenzene-d5
Concen: 105.910 ng
RT: 8.937 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion: 82 Resp: 1201601

Ion	Ratio	Lower	Upper
82	100		
128	46.2	37.7	56.5
54	49.4	39.8	59.6

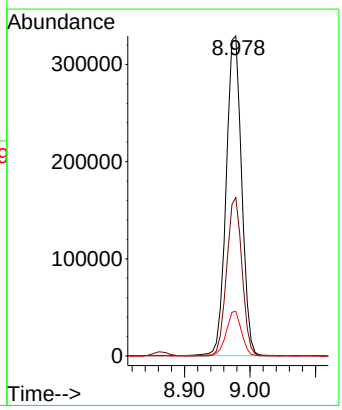


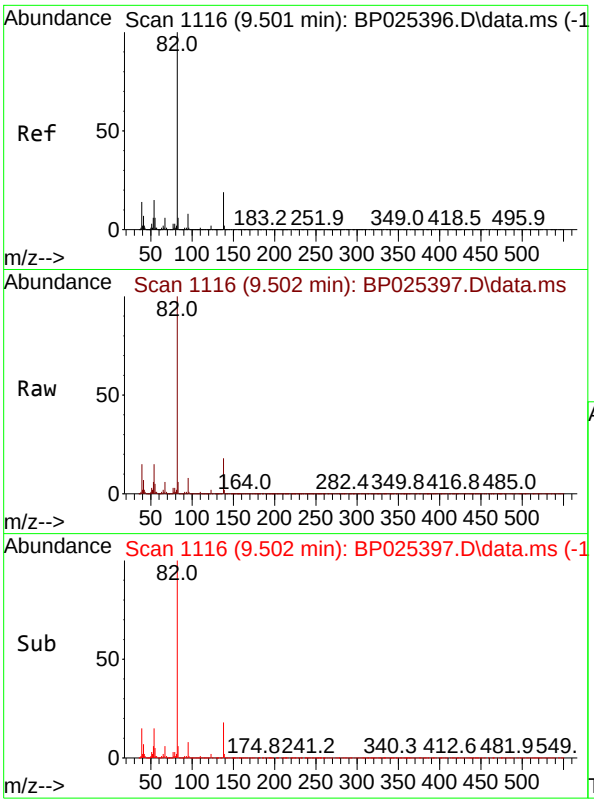


#24
Nitrobenzene
Concen: 53.024 ng
RT: 8.978 min Scan# 1027
Delta R.T. 0.006 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion: 77 Resp: 537647

Ion	Ratio	Lower	Upper
77	100		
123	49.5	38.6	58.0
65	13.9	10.6	15.8



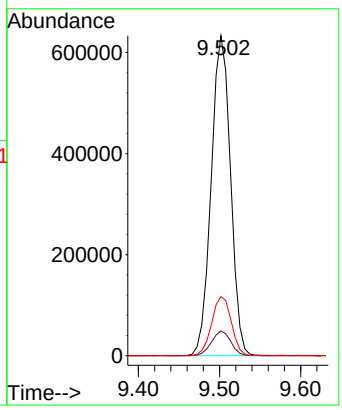


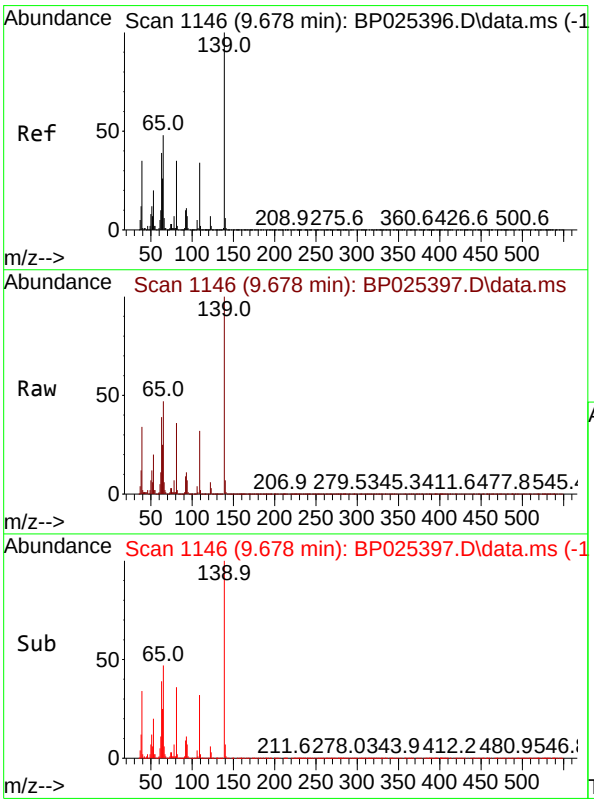
#25
Isophorone
Concen: 52.182 ng
RT: 9.502 min Scan# 11
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion: 82 Resp: 1047736

Ion	Ratio	Lower	Upper
82	100		
95	7.8	6.4	9.6
138	18.5	15.4	23.0

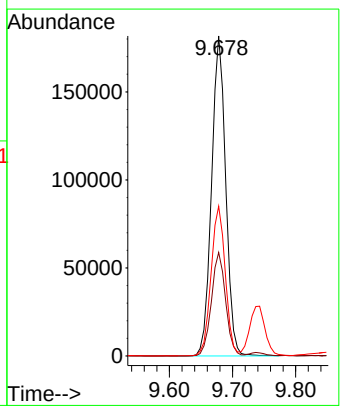


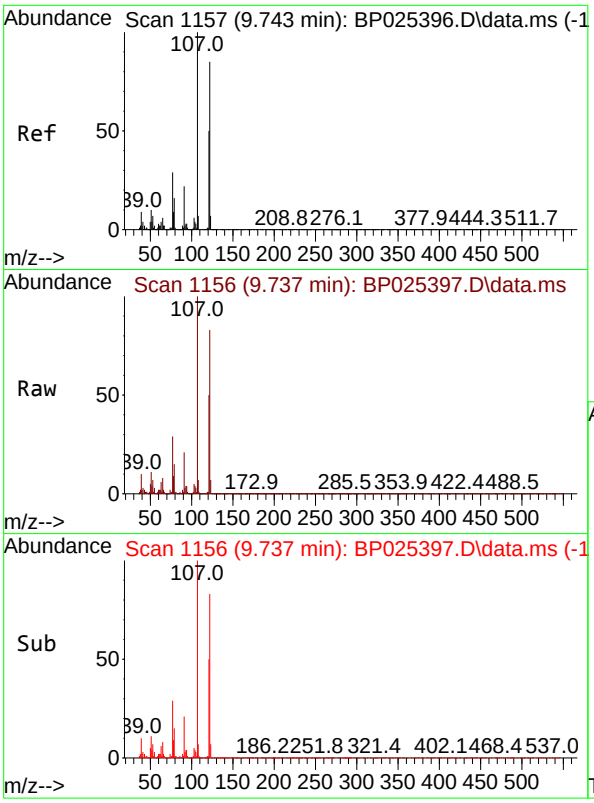


#26
2-Nitrophenol
Concen: 54.323 ng
RT: 9.678 min Scan# 1146
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:139 Resp: 282682

Ion	Ratio	Lower	Upper
139	100		
109	32.3	26.9	40.3
65	46.8	38.3	57.5



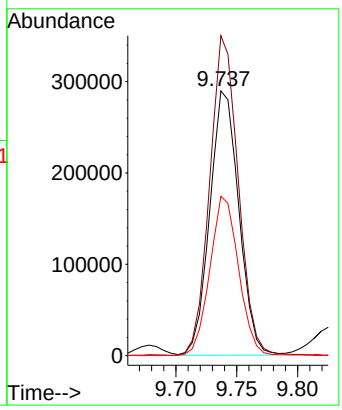


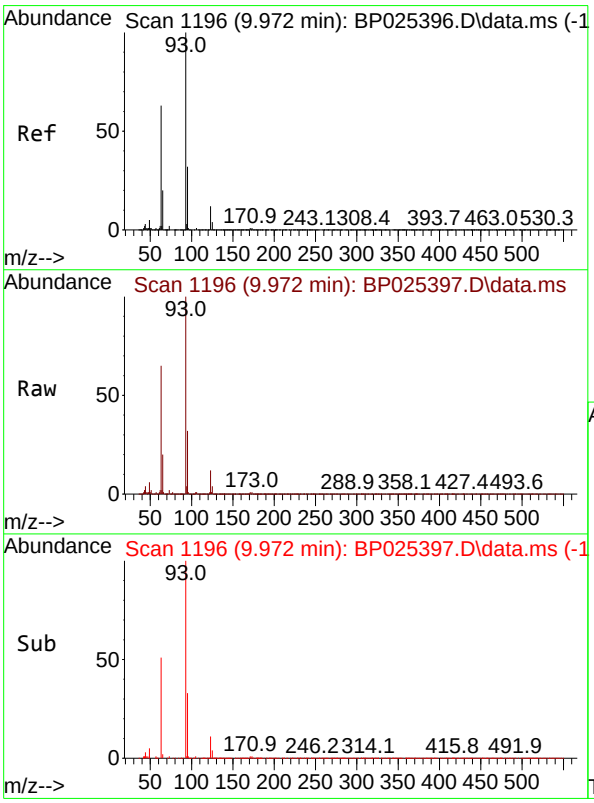
#27
2,4-Dimethylphenol
Concen: 53.806 ng
RT: 9.737 min Scan# 11
Delta R.T. -0.006 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:122 Resp: 481502

Ion	Ratio	Lower	Upper
122	100		
107	120.8	93.7	140.5
121	60.2	46.6	69.8

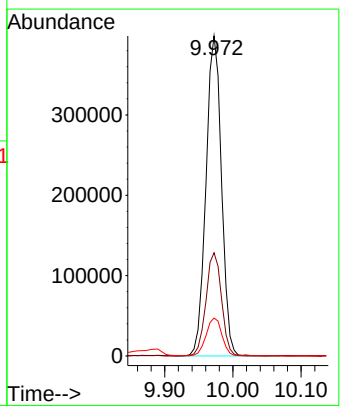


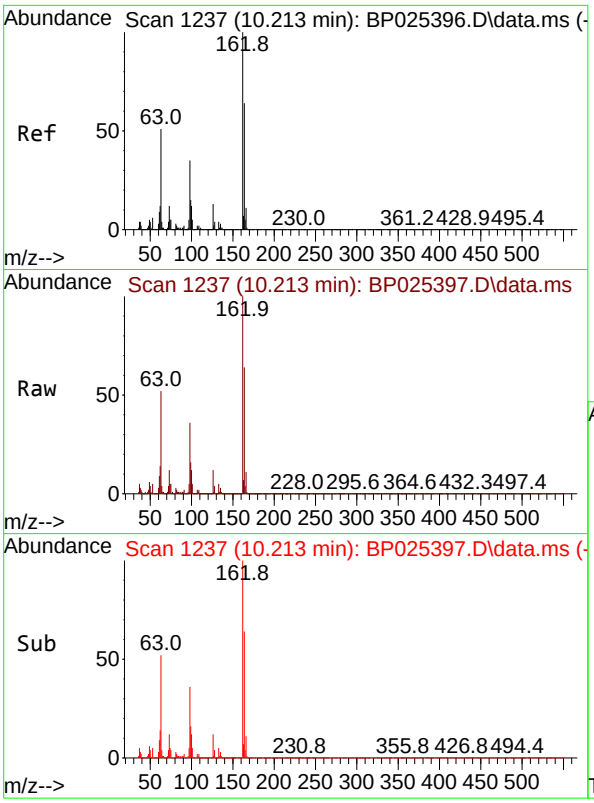


#28
bis(2-Chloroethoxy)methane
Concen: 51.909 ng
RT: 9.972 min Scan# 1196
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion: 93 Resp: 630027

Ion	Ratio	Lower	Upper
93	100		
95	32.2	25.4	38.0
123	11.8	9.4	14.0



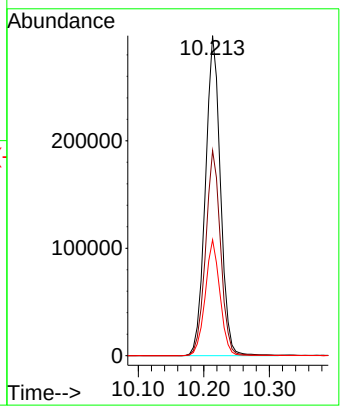


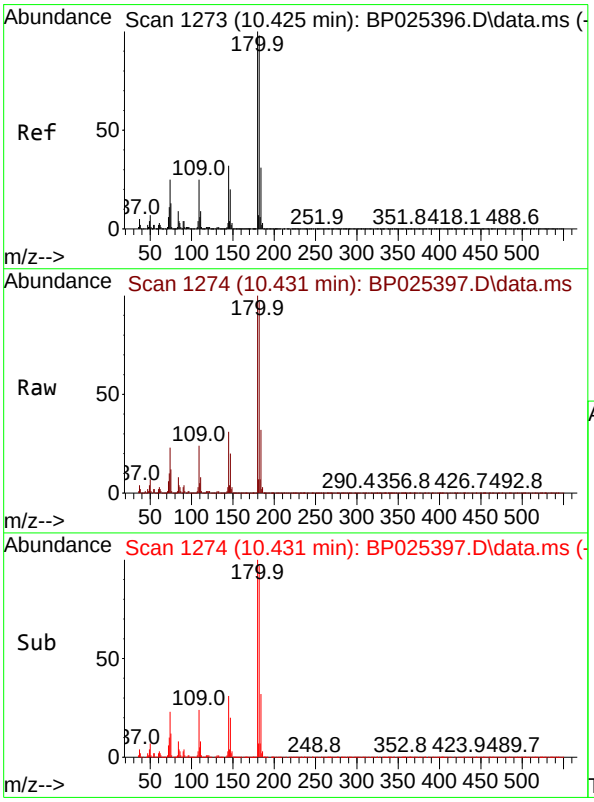
#29
2,4-Dichlorophenol
Concen: 53.478 ng
RT: 10.213 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:162 Resp: 475406

Ion	Ratio	Lower	Upper
162	100		
164	64.1	44.4	84.4
98	36.2	14.9	54.9

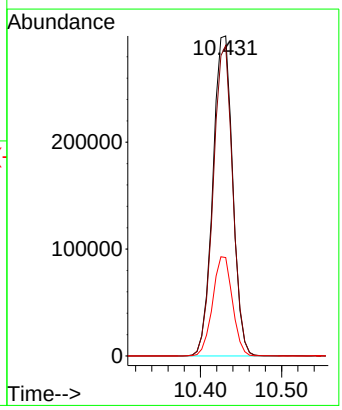


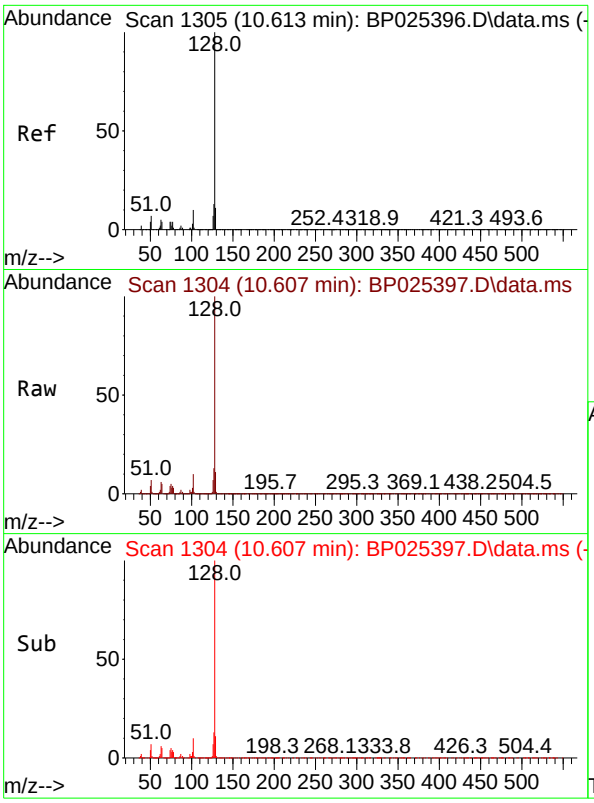


#30
1,2,4-Trichlorobenzene
Concen: 52.101 ng
RT: 10.431 min Scan# 1274
Delta R.T. 0.006 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:180 Resp: 507724

Ion	Ratio	Lower	Upper
180	100		
182	97.0	78.0	117.0
145	30.8	25.9	38.9



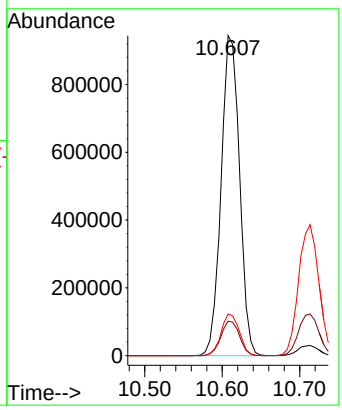


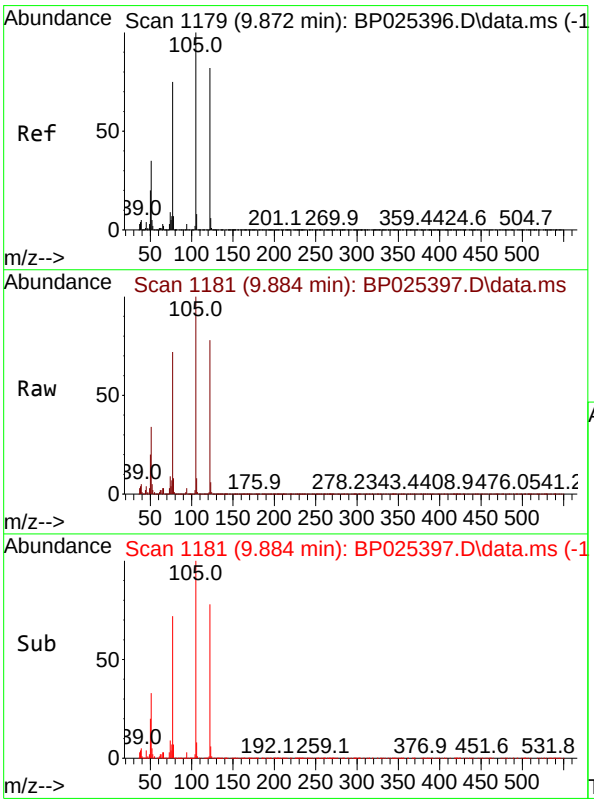
#31
Naphthalene
Concen: 52.305 ng
RT: 10.607 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:128 Resp: 1560240

Ion	Ratio	Lower	Upper
128	100		
129	10.8	8.6	13.0
127	13.1	10.7	16.1

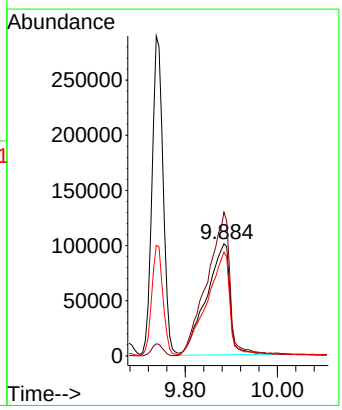


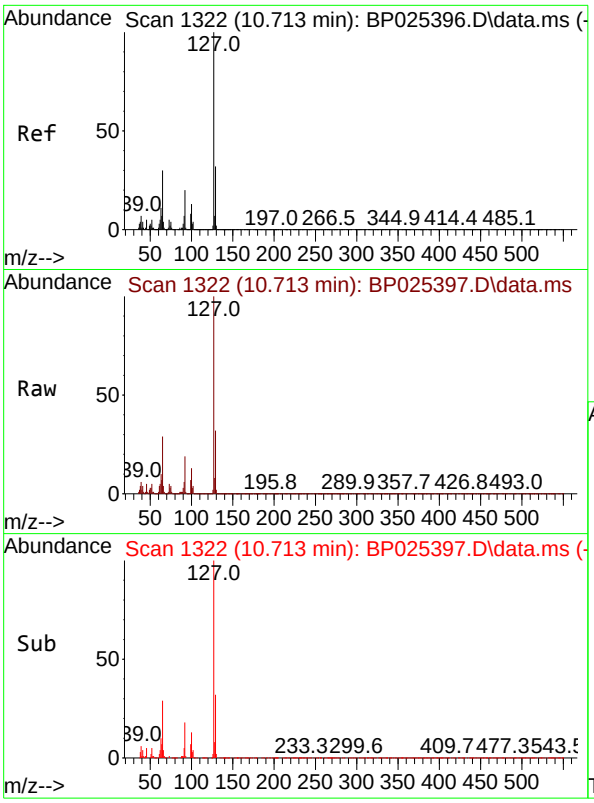


#32
Benzoic acid
Concen: 54.274 ng
RT: 9.884 min Scan# 1181
Delta R.T. 0.012 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:122 Resp: 357706

Ion	Ratio	Lower	Upper
122	100		
105	128.1	100.6	140.6
77	92.6	71.5	111.5



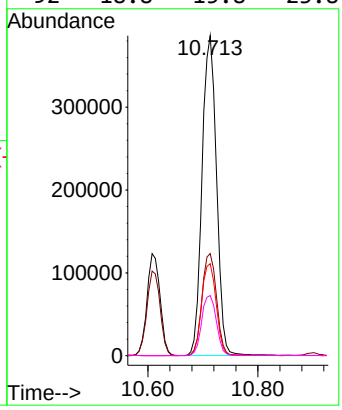


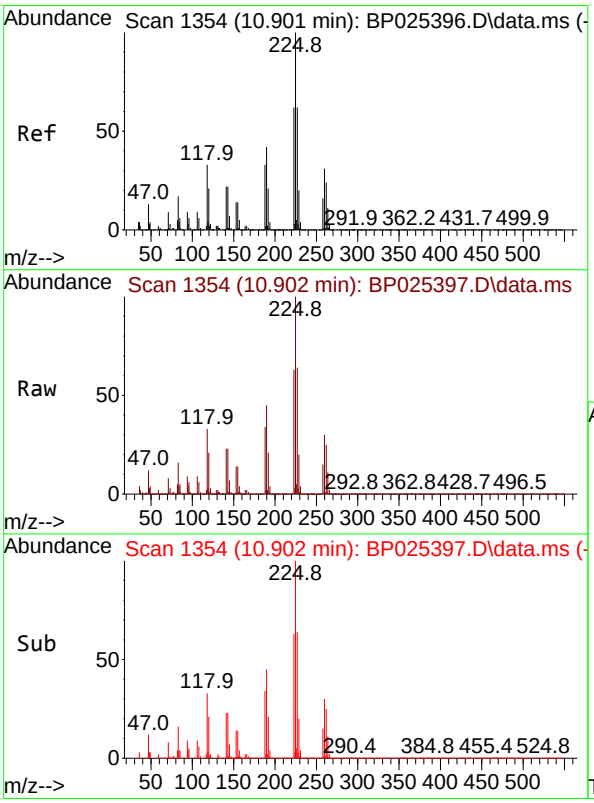
#33
4-Chloroaniline
Concen: 53.548 ng
RT: 10.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:127 Resp: 705562

Ion	Ratio	Lower	Upper
127	100		
129	31.9	25.4	38.2
65	28.7	23.8	35.6
92	18.8	15.8	23.8

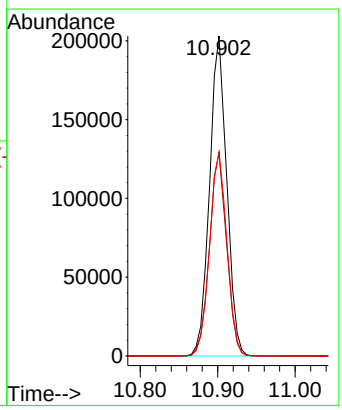


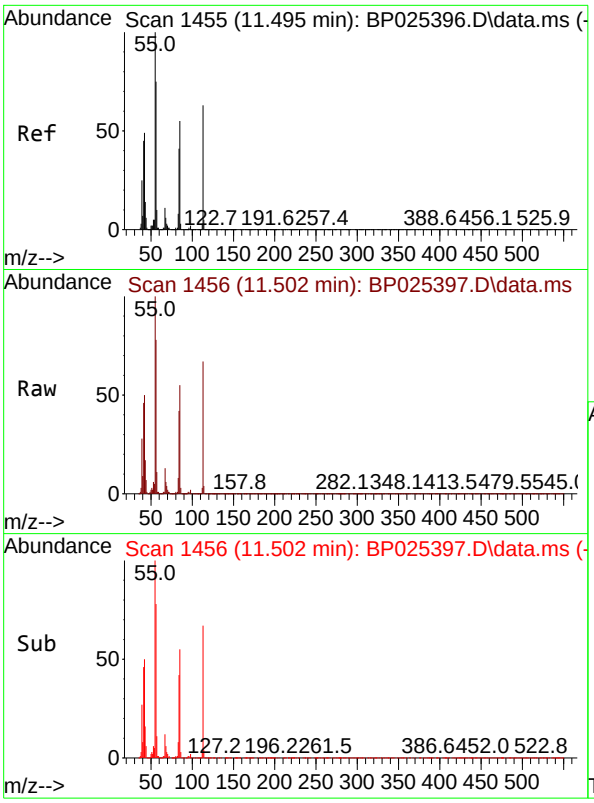


#34
Hexachlorobutadiene
Concen: 51.436 ng
RT: 10.902 min Scan# 1354
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:225 Resp: 312163

Ion	Ratio	Lower	Upper
225	100		
223	63.5	50.0	75.0
227	63.7	49.7	74.5



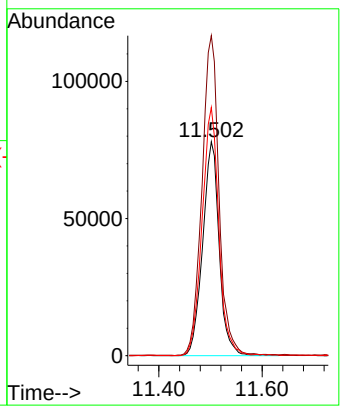


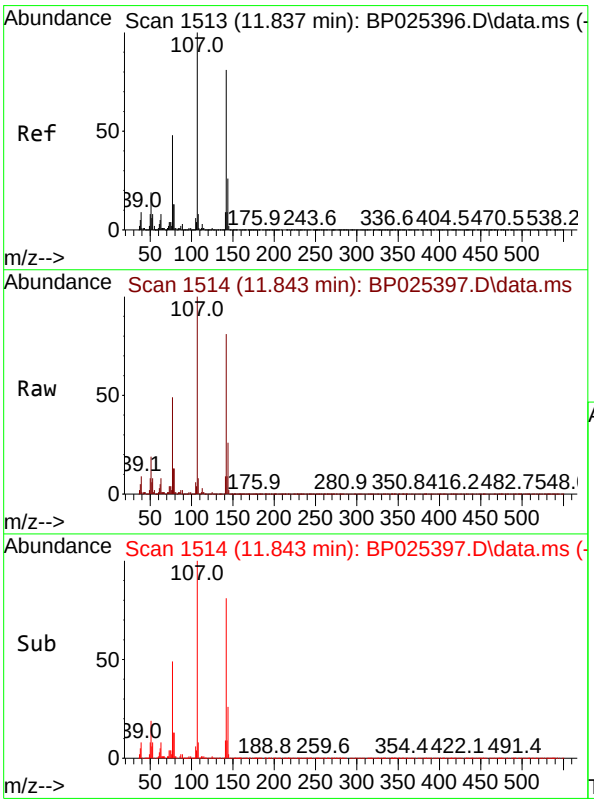
#35
Caprolactam
Concen: 52.969 ng
RT: 11.502 min Scan# 14
Delta R.T. 0.006 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:113 Resp: 172663

Ion	Ratio	Lower	Upper
113	100		
55	149.6	140.0	180.0
56	116.0	100.0	140.0

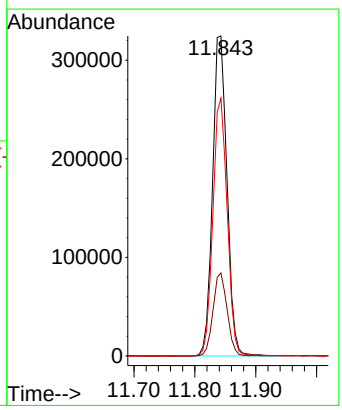


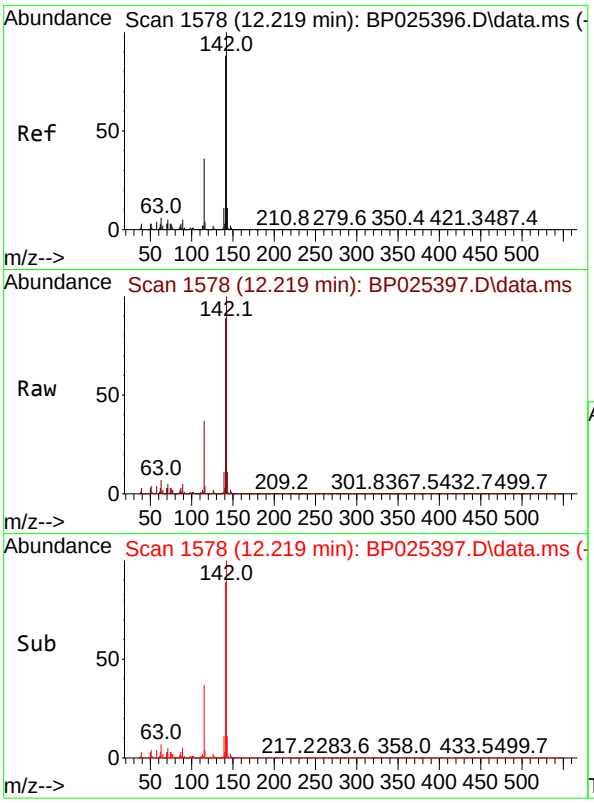


#36
4-Chloro-3-methylphenol
Concen: 52.407 ng
RT: 11.843 min Scan# 1514
Delta R.T. 0.006 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:107 Resp: 534583

Ion	Ratio	Lower	Upper
107	100		
144	26.0	21.0	31.4
142	80.6	64.6	97.0



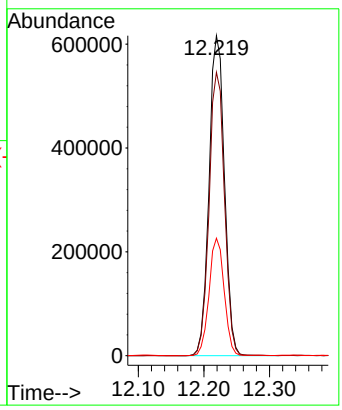


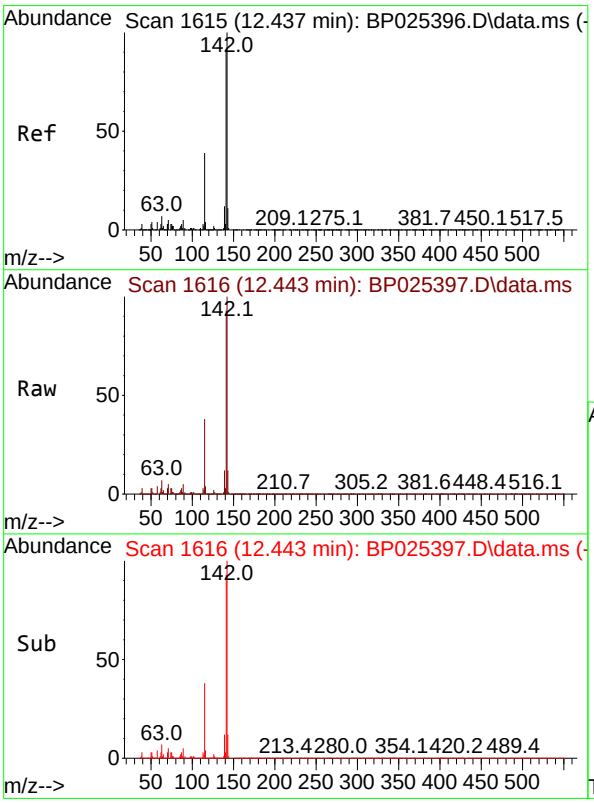
#37
2-Methylnaphthalene
Concen: 51.710 ng
RT: 12.219 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:142 Resp: 1003813

Ion	Ratio	Lower	Upper
142	100		
141	88.5	70.3	105.5
115	36.7	28.9	43.3

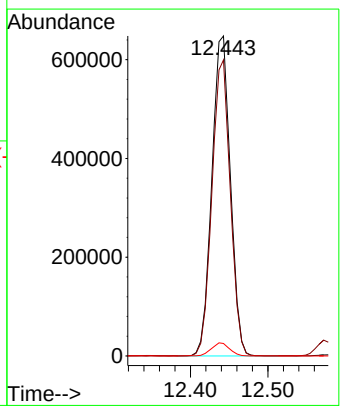


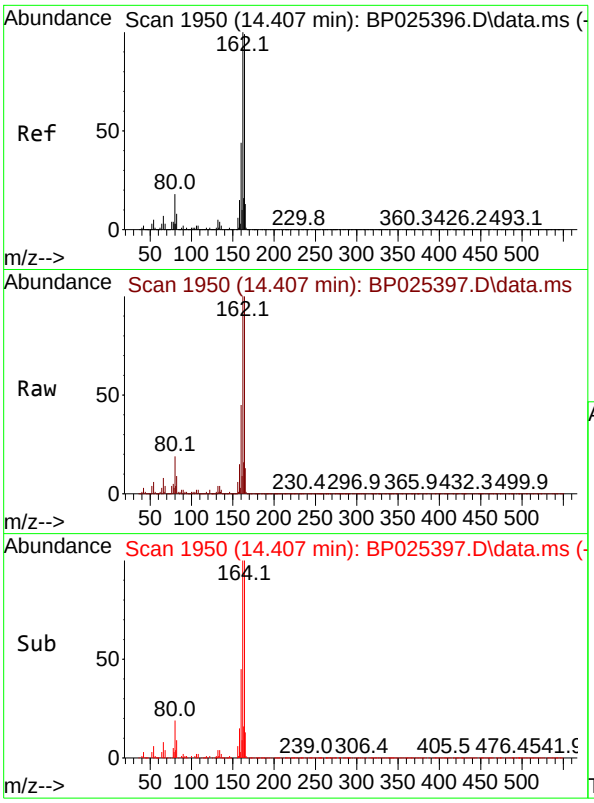


#38
1-Methylnaphthalene
Concen: 52.167 ng
RT: 12.443 min Scan# 1616
Delta R.T. 0.006 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:142 Resp: 1076949

Ion	Ratio	Lower	Upper
142	100		
141	92.5	73.1	109.7
116	3.9	3.2	4.8



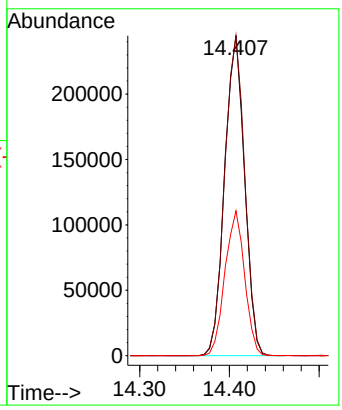


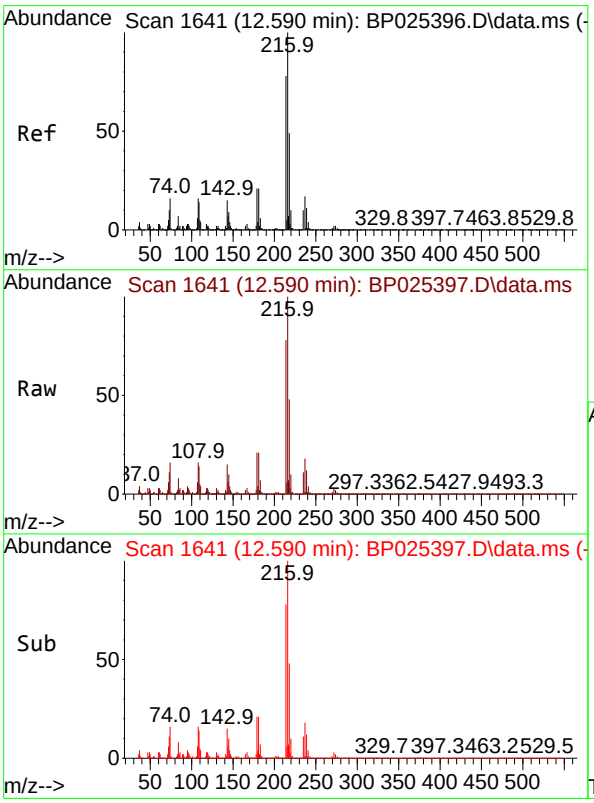
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.407 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:164 Resp: 376731

Ion	Ratio	Lower	Upper
164	100		
162	100.0	81.0	121.6
160	45.2	35.4	53.2

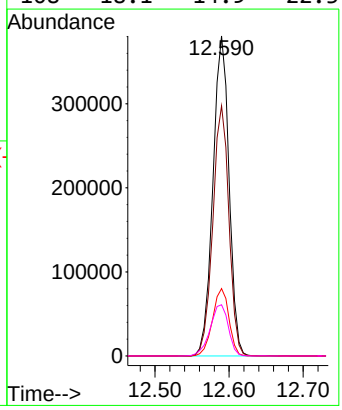


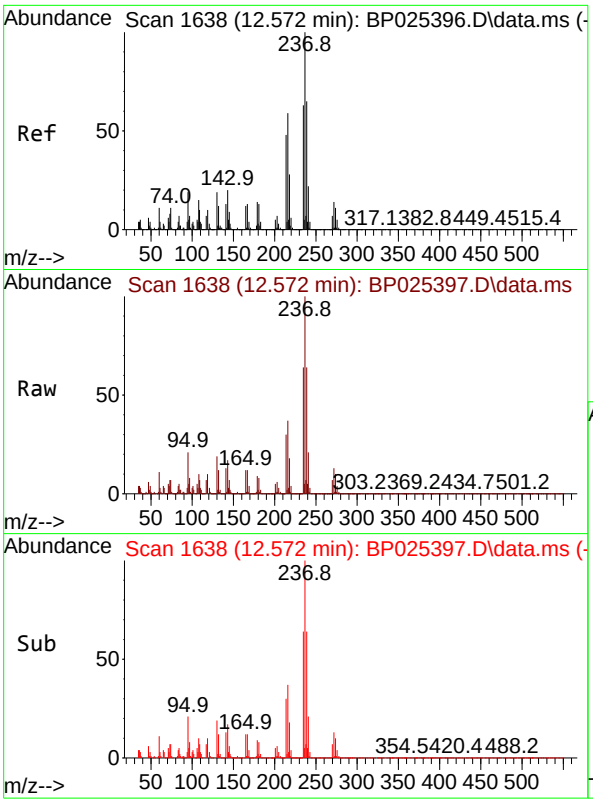


#40
1,2,4,5-Tetrachlorobenzene
Concen: 52.769 ng
RT: 12.590 min Scan# 1641
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:216 Resp: 574152

Ion	Ratio	Lower	Upper
216	100		
214	78.2	63.0	94.4
179	21.5	17.1	25.7
108	18.1	14.9	22.3



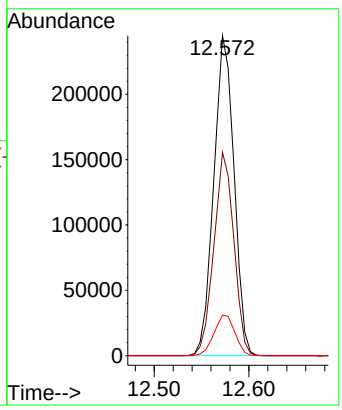


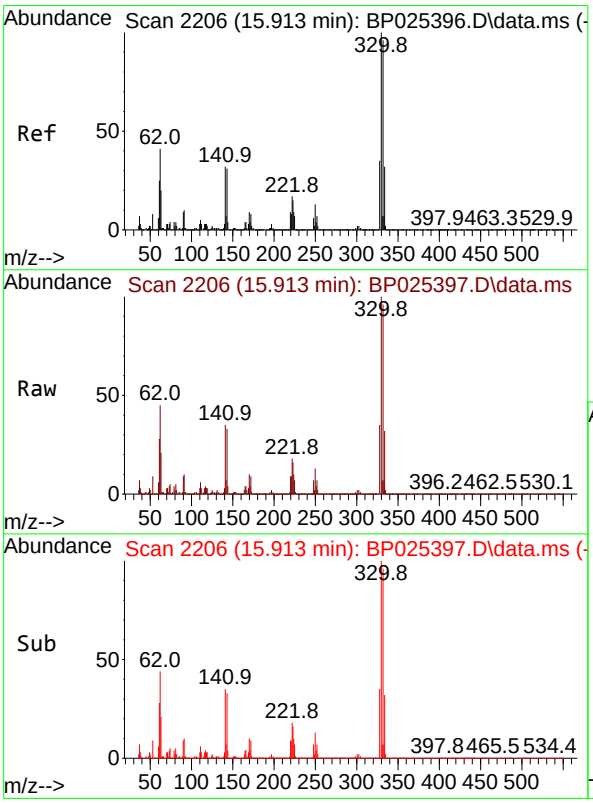
#41
Hexachlorocyclopentadiene
Concen: 55.392 ng
RT: 12.572 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:237 Resp: 364047

Ion	Ratio	Lower	Upper
237	100		
235	63.6	42.7	82.7
272	12.7	0.0	34.0

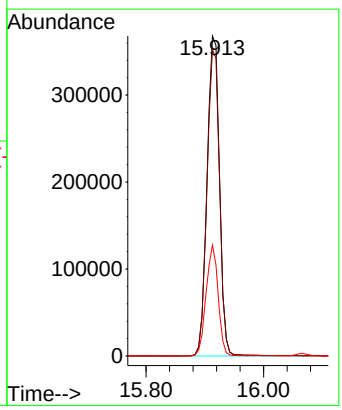


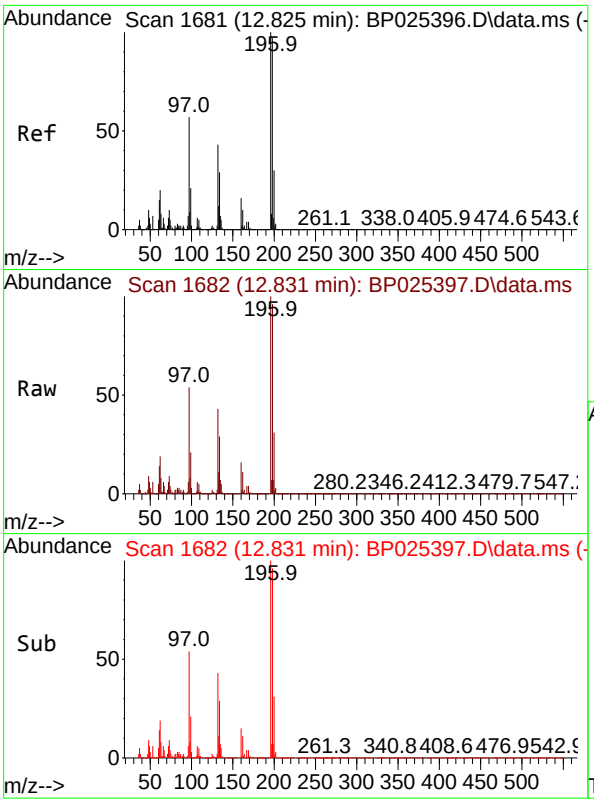


#42
2,4,6-Tribromophenol
Concen: 106.352 ng
RT: 15.913 min Scan# 2206
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:330 Resp: 539295

Ion	Ratio	Lower	Upper
330	100		
332	96.8	77.3	115.9
141	33.5	26.6	39.8



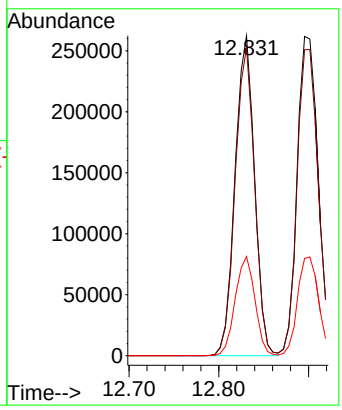


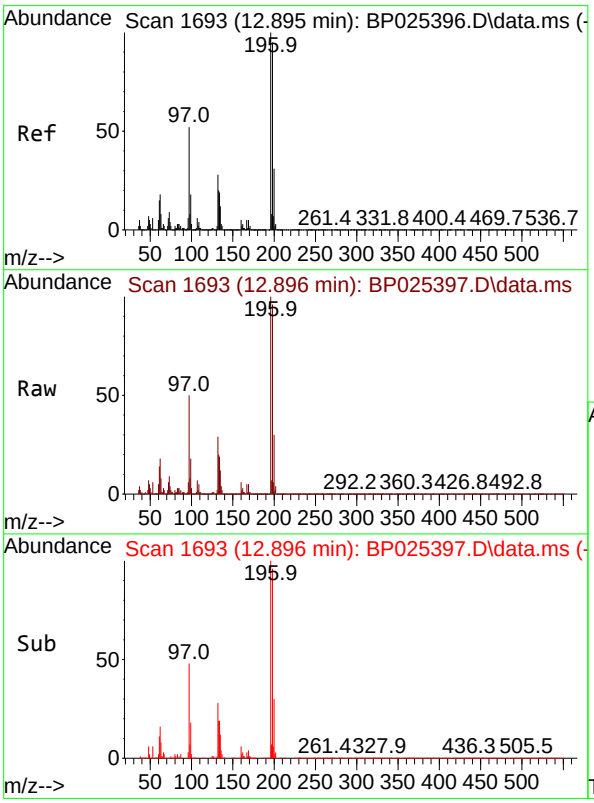
#43
2,4,6-Trichlorophenol
Concen: 53.971 ng
RT: 12.831 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:196 Resp: 396440

Ion	Ratio	Lower	Upper
196	100		
198	96.3	77.2	115.8
200	31.0	23.9	35.9

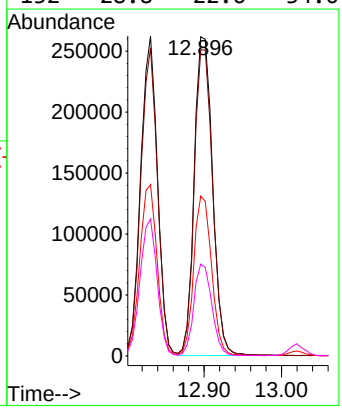


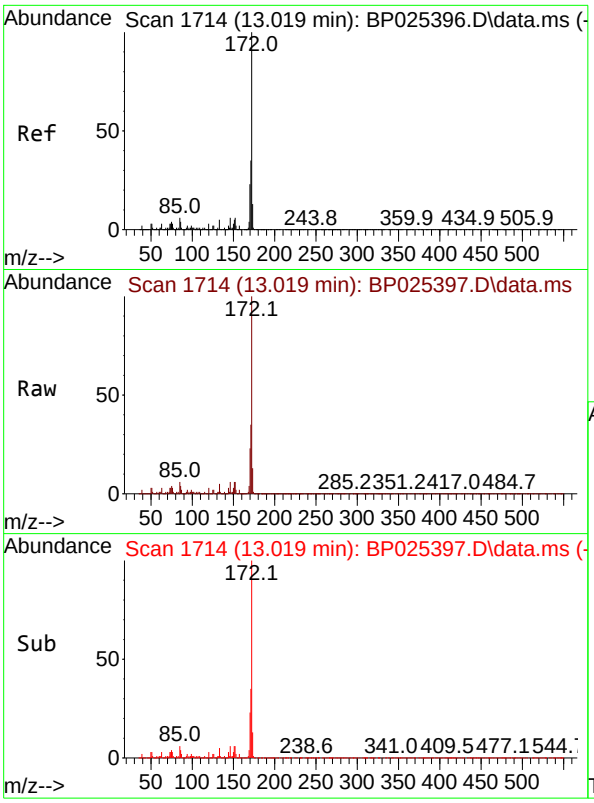


#44
2,4,5-Trichlorophenol
Concen: 53.421 ng
RT: 12.896 min Scan# 1693
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:196 Resp: 430061

Ion	Ratio	Lower	Upper
196	100		
198	95.8	76.2	114.2
97	50.1	41.2	61.8
132	28.8	22.6	34.0



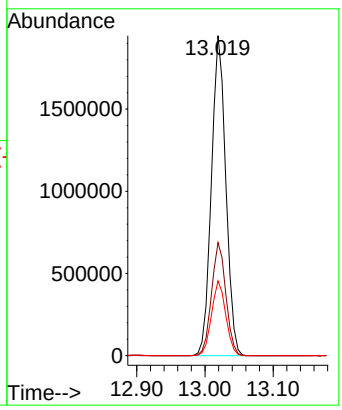


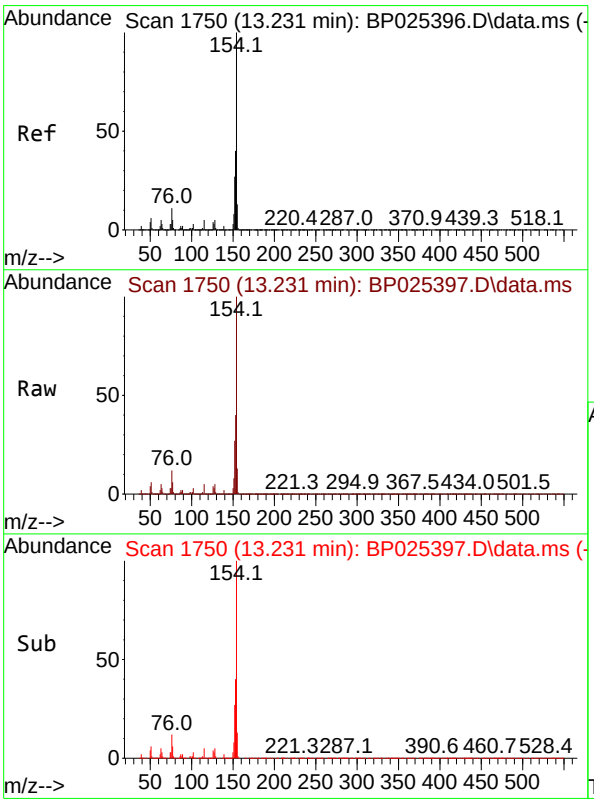
#45
2-Fluorobiphenyl
Concen: 103.632 ng
RT: 13.019 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:172 Resp: 2856639

Ion	Ratio	Lower	Upper
172	100		
171	35.3	28.1	42.1
170	23.4	18.6	28.0

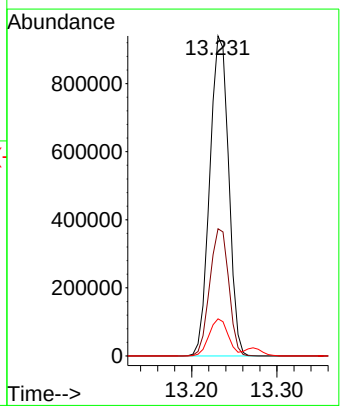


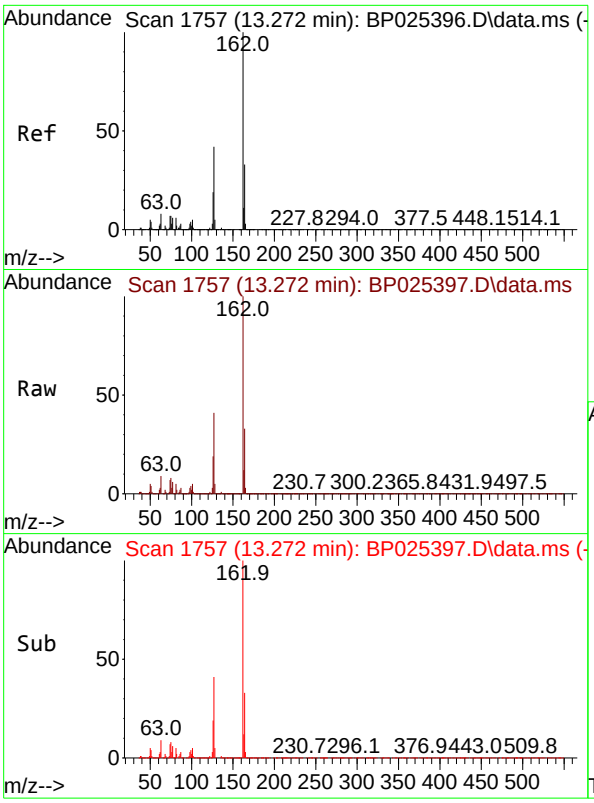


#46
1,1'-Biphenyl
Concen: 52.922 ng
RT: 13.231 min Scan# 1750
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:154 Resp: 1447968

Ion	Ratio	Lower	Upper
154	100		
153	39.8	19.5	59.5
76	11.6	0.0	31.1



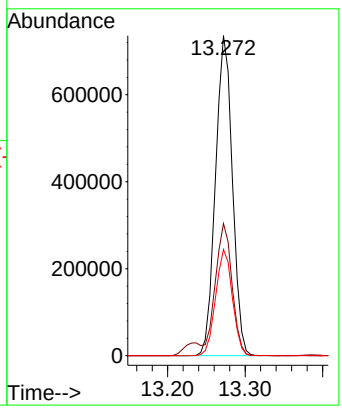


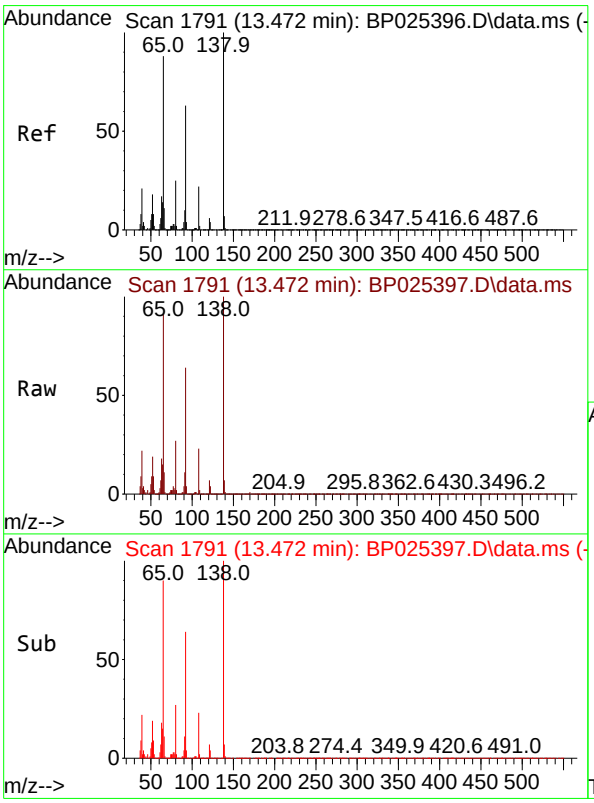
#47
2-Chloronaphthalene
Concen: 52.344 ng
RT: 13.272 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:162 Resp: 1114922

Ion	Ratio	Lower	Upper
162	100		
127	41.3	33.4	50.2
164	33.2	26.2	39.2

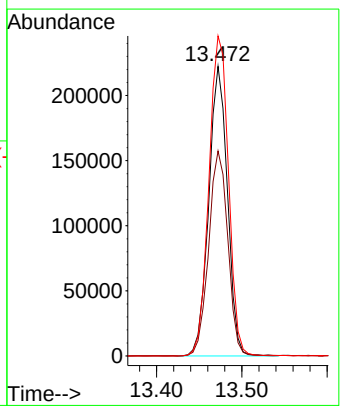


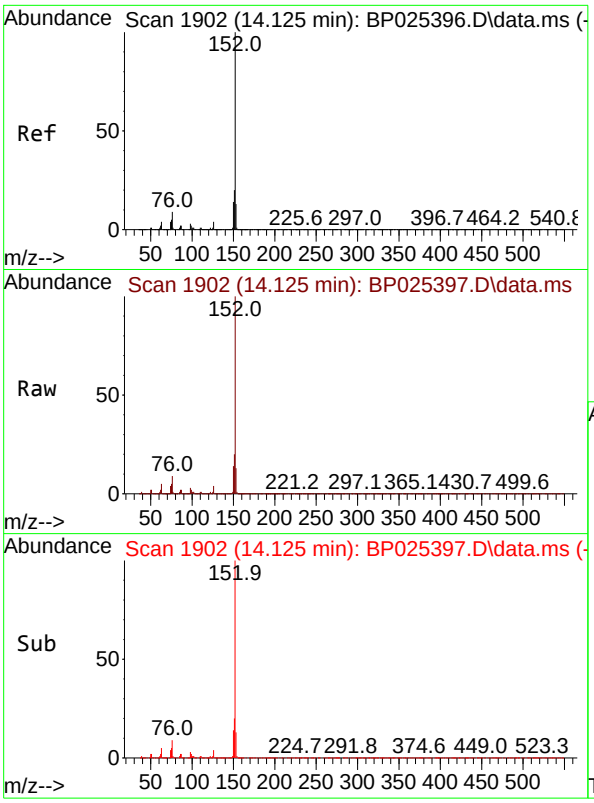


#48
2-Nitroaniline
Concen: 54.613 ng
RT: 13.472 min Scan# 1791
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion: 65 Resp: 338939

Ion	Ratio	Lower	Upper
65	100		
92	70.7	57.6	86.4
138	110.5	91.0	136.6



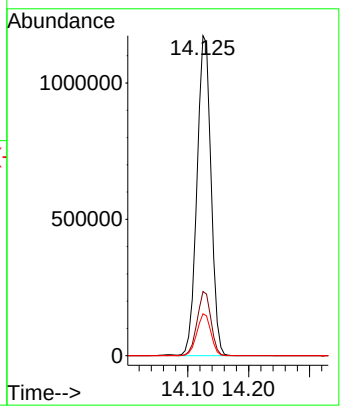


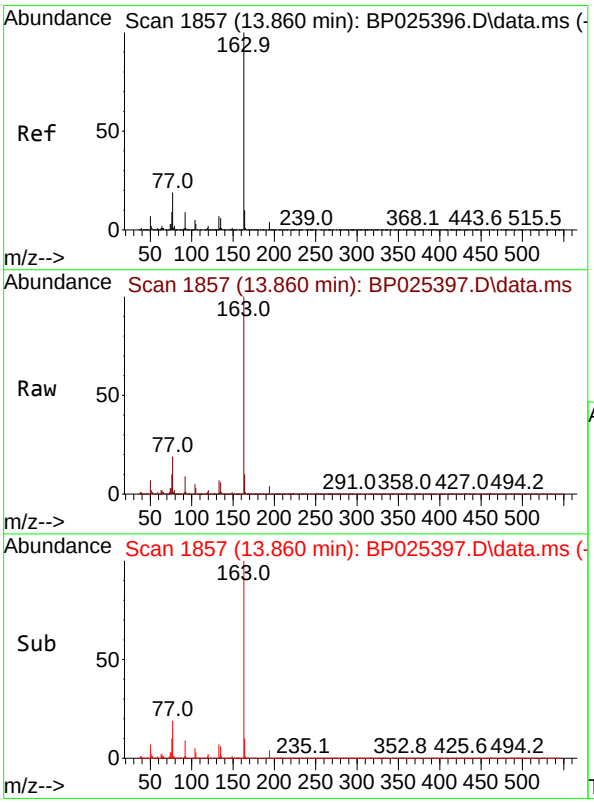
#49
Acenaphthylene
Concen: 53.227 ng
RT: 14.125 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:152 Resp: 1875998

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.0	24.0
153	13.1	10.6	15.8

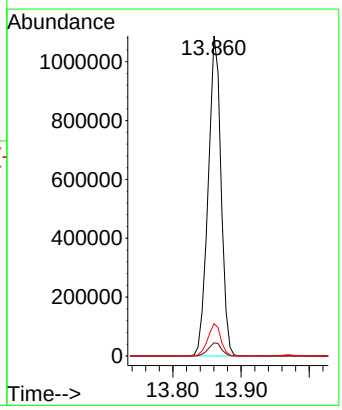


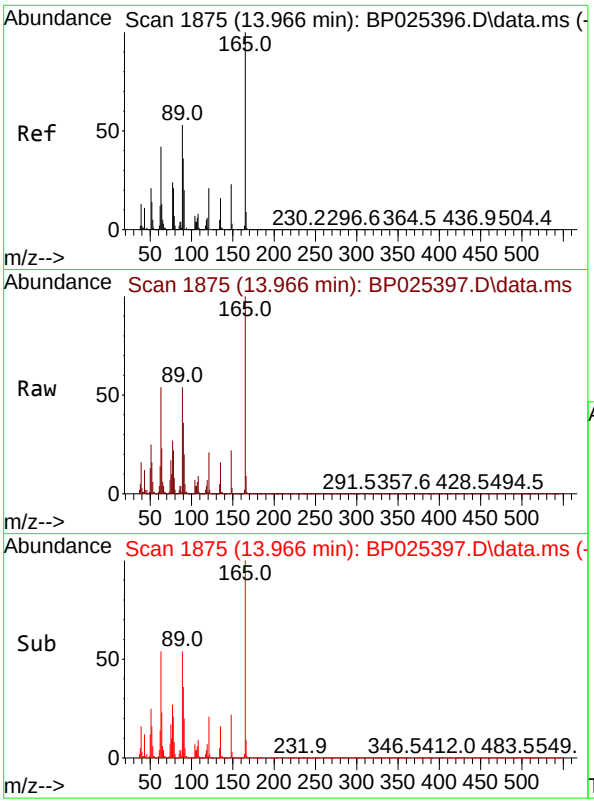


#50
Dimethylphthalate
Concen: 51.622 ng
RT: 13.860 min Scan# 1857
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:163 Resp: 1424127

Ion	Ratio	Lower	Upper
163	100		
194	4.1	3.4	5.0
164	10.1	7.9	11.9



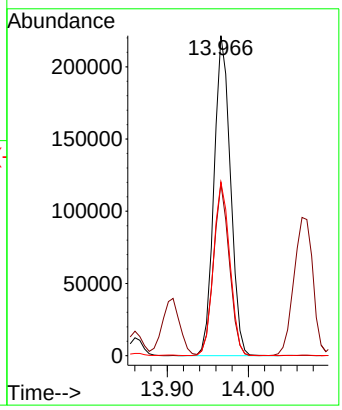


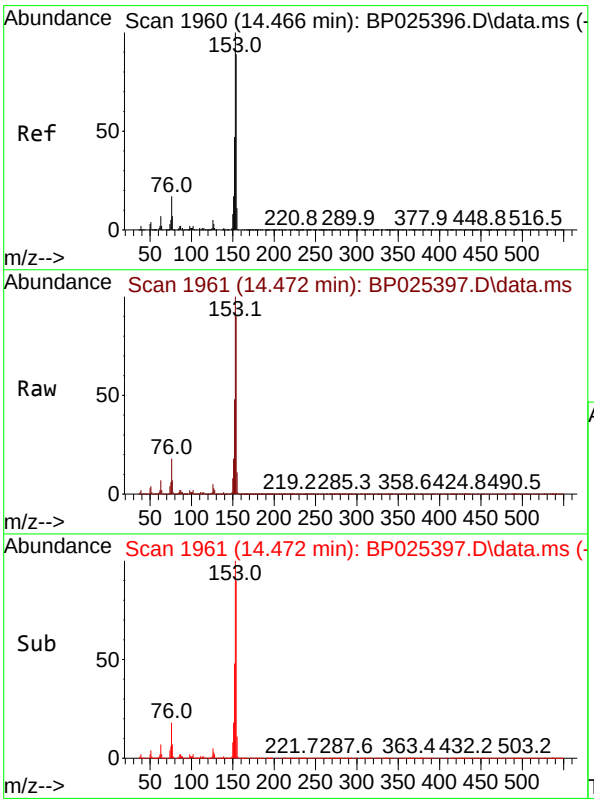
#51
2,6-Dinitrotoluene
Concen: 53.683 ng
RT: 13.966 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:165 Resp: 312149

Ion	Ratio	Lower	Upper
165	100		
63	53.8	40.9	61.3
89	54.2	42.1	63.1

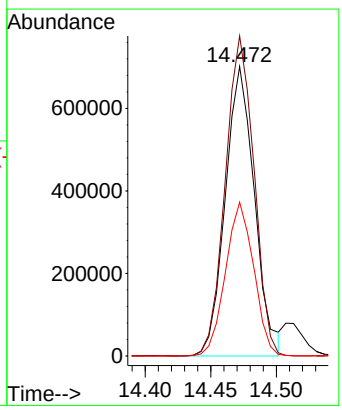


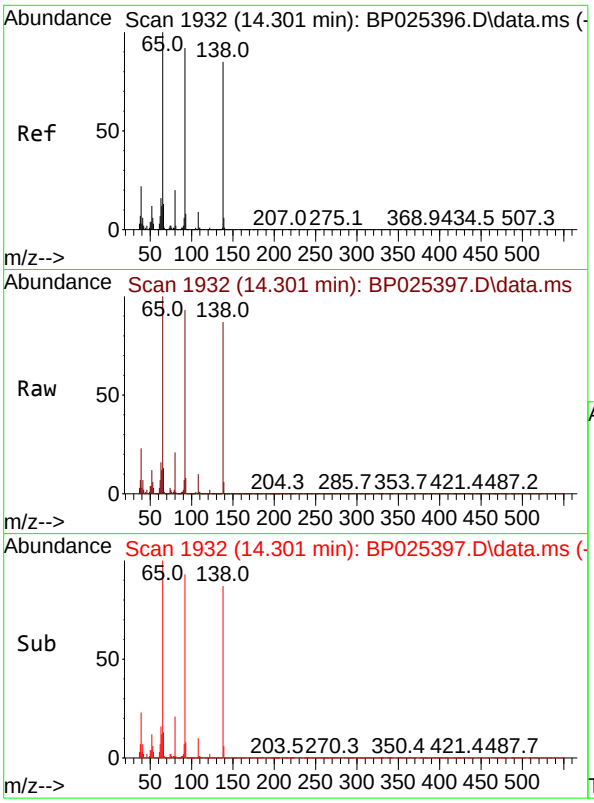


#52
Acenaphthene
Concen: 52.577 ng
RT: 14.472 min Scan# 1961
Delta R.T. 0.006 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:154 Resp: 1087721

Ion	Ratio	Lower	Upper
154	100		
153	110.6	90.2	135.2
152	53.1	42.1	63.1



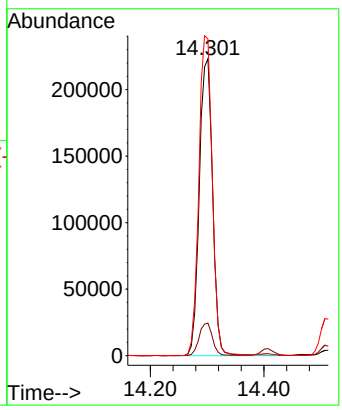


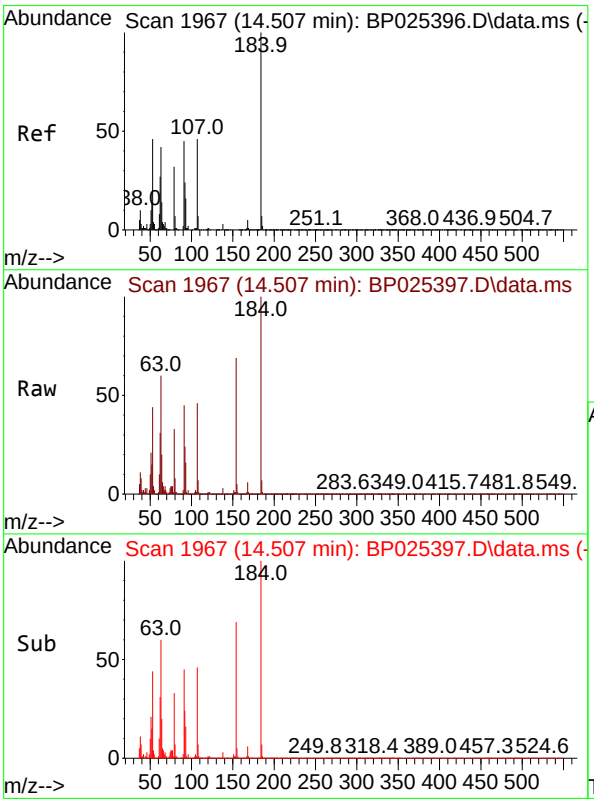
#53
3-Nitroaniline
Concen: 55.339 ng
RT: 14.301 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:138 Resp: 362030

Ion	Ratio	Lower	Upper
138	100		
108	11.0	8.3	12.5
92	106.6	86.2	129.2

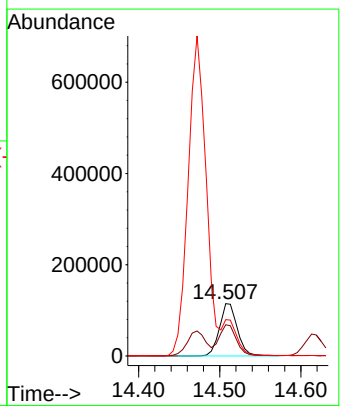


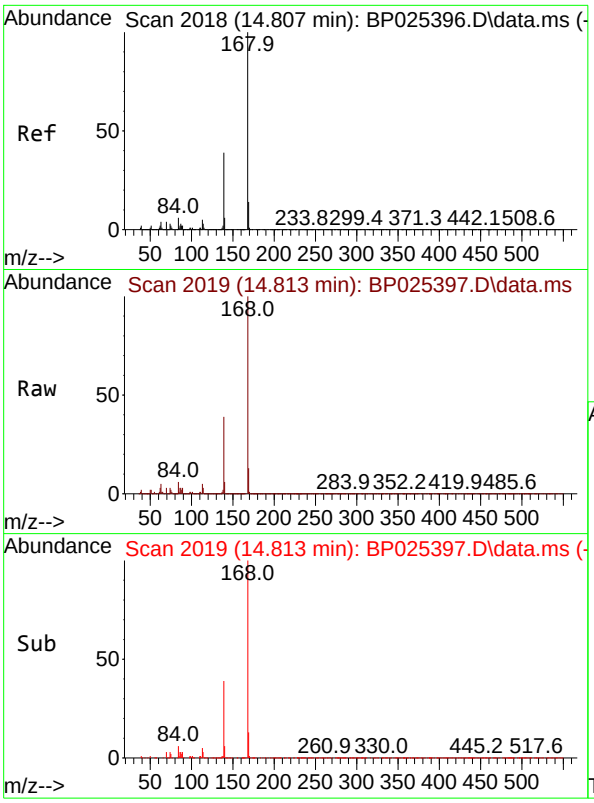


#54
2,4-Dinitrophenol
Concen: 56.503 ng
RT: 14.507 min Scan# 1967
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:184 Resp: 175453

Ion	Ratio	Lower	Upper
184	100		
63	59.7	49.4	74.2
154	69.4	54.6	82.0



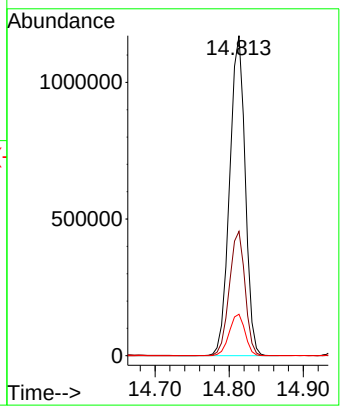


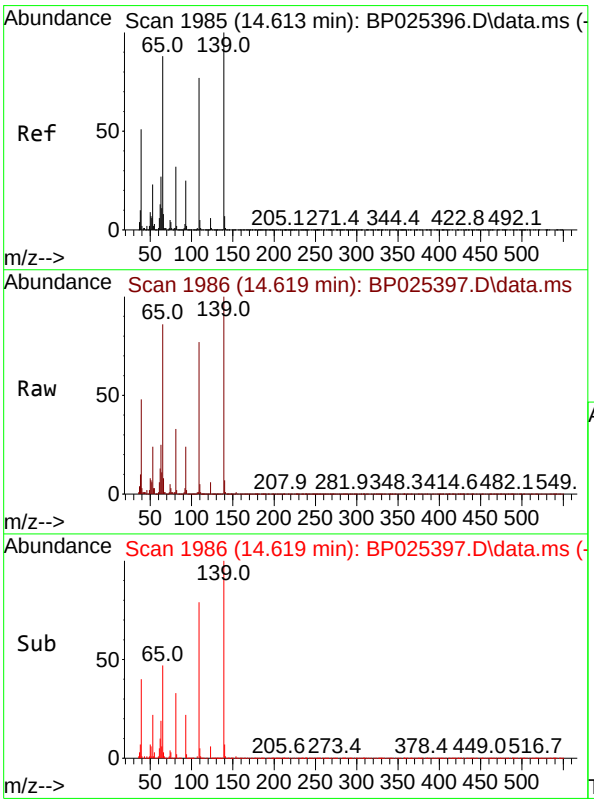
#55
Dibenzofuran
Concen: 52.147 ng
RT: 14.813 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:168 Resp: 1705630

Ion	Ratio	Lower	Upper
168	100		
139	38.9	31.5	47.3
169	13.0	10.9	16.3

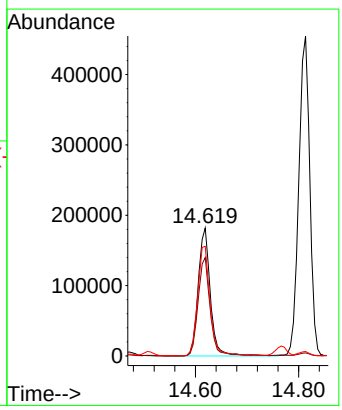


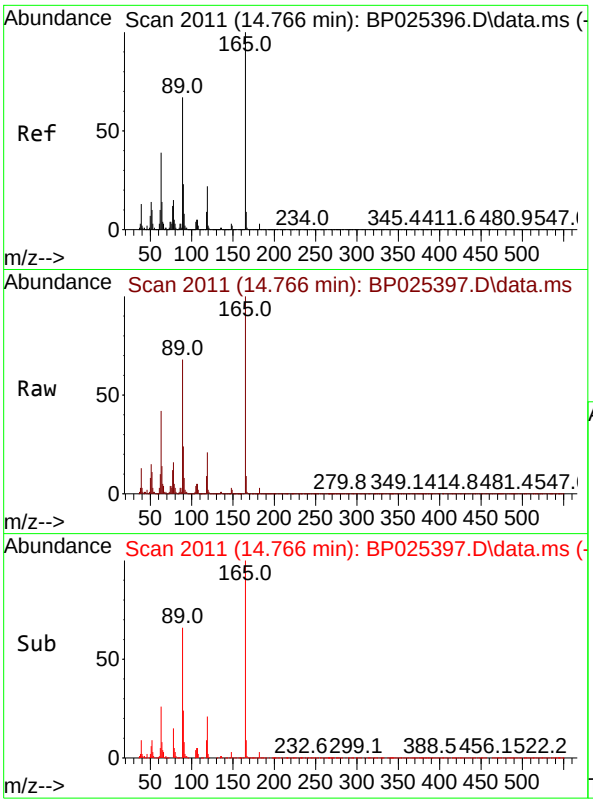


#56
4-Nitrophenol
Concen: 55.103 ng
RT: 14.619 min Scan# 1986
Delta R.T. 0.006 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:139 Resp: 296227

Ion	Ratio	Lower	Upper
139	100		
109	76.8	56.6	96.6
65	85.5	68.2	108.2



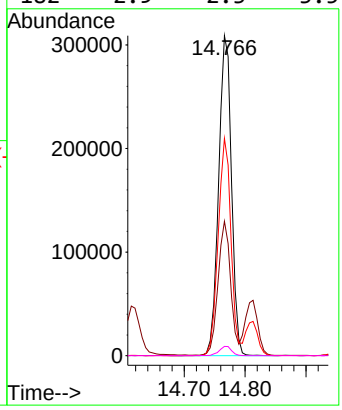


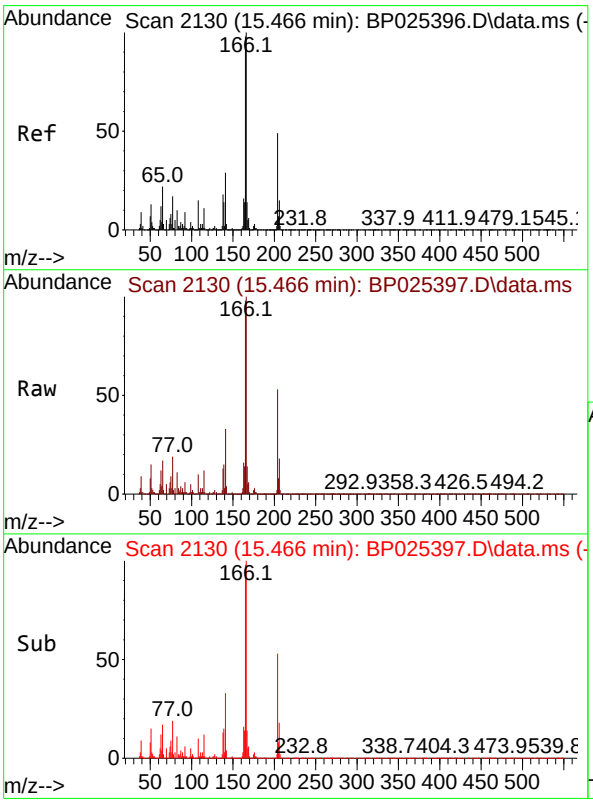
#57
2,4-Dinitrotoluene
Concen: 54.354 ng
RT: 14.766 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:165 Resp: 450923

Ion	Ratio	Lower	Upper
165	100		
63	42.0	31.4	47.2
89	67.9	53.3	79.9
182	2.9	2.3	3.5

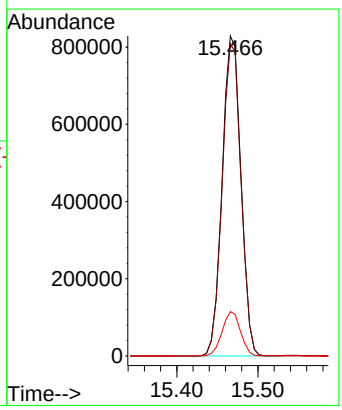


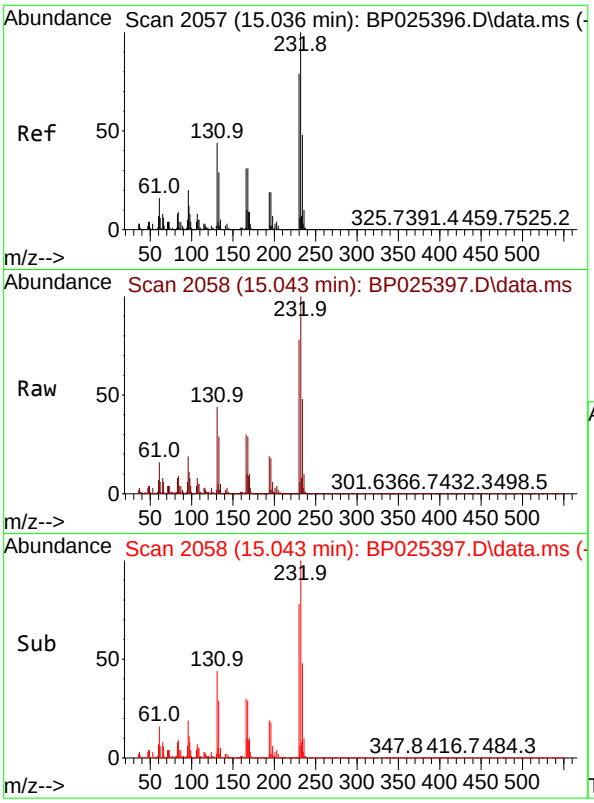


#58
Fluorene
Concen: 51.627 ng
RT: 15.466 min Scan# 2130
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:166 Resp: 1332448

Ion	Ratio	Lower	Upper
166	100		
165	97.6	78.8	118.2
167	13.9	11.0	16.4



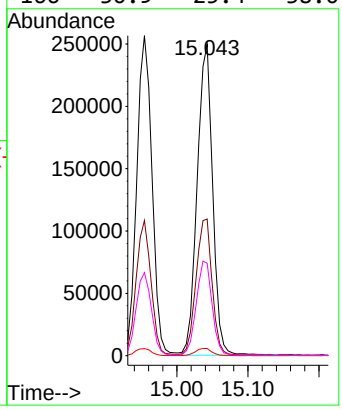


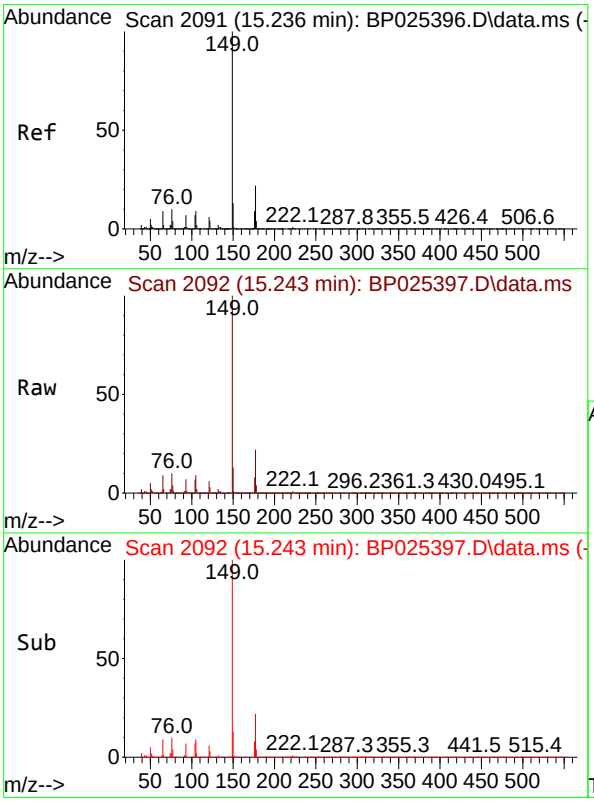
#59
2,3,4,6-Tetrachlorophenol
Concen: 53.281 ng
RT: 15.043 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:232 Resp: 378743

Ion	Ratio	Lower	Upper
232	100		
131	46.0	37.0	55.6
130	2.5	1.9	2.9
166	30.9	25.4	38.0

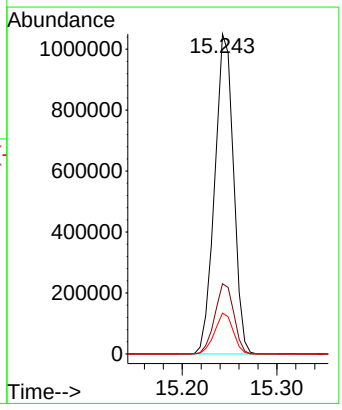


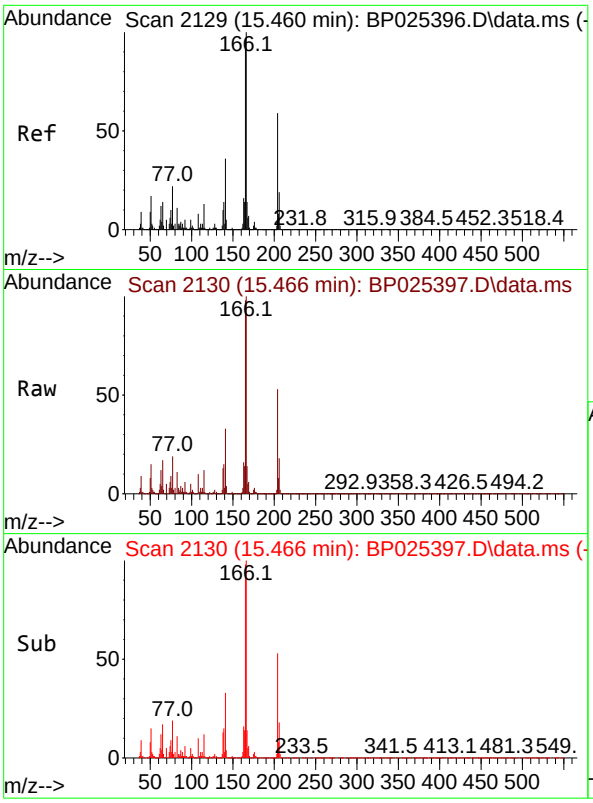


#60
Diethylphthalate
Concen: 51.728 ng
RT: 15.243 min Scan# 2092
Delta R.T. 0.006 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:149 Resp: 1450033

Ion	Ratio	Lower	Upper
149	100		
177	21.9	17.3	25.9
150	12.8	10.3	15.5



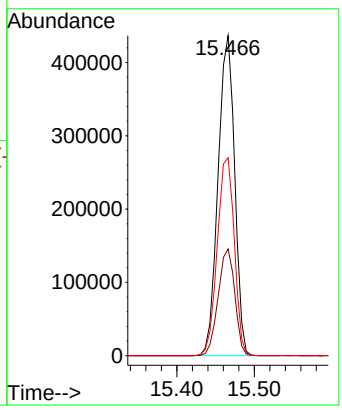


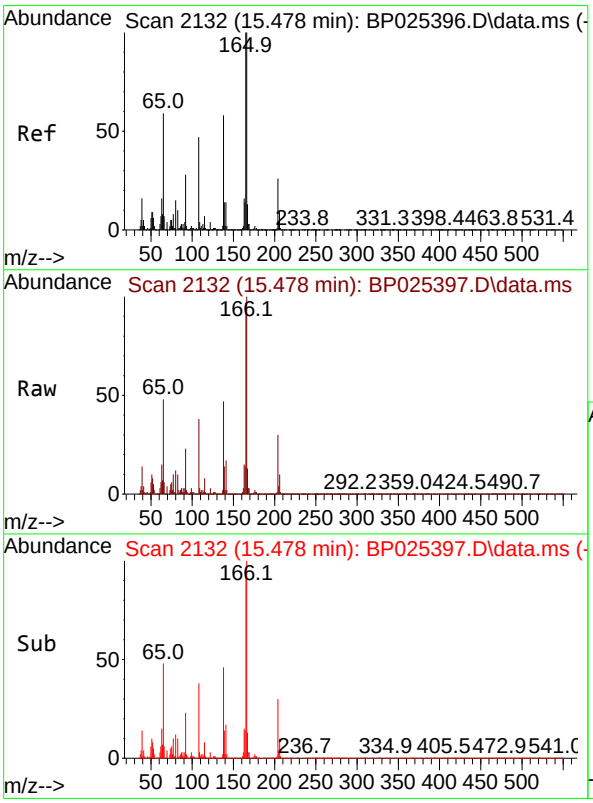
#61
4-Chlorophenyl-phenylether
Concen: 50.647 ng
RT: 15.466 min Scan# 21
Delta R.T. 0.006 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:204 Resp: 650101

Ion	Ratio	Lower	Upper
204	100		
206	33.4	25.8	38.8
141	61.8	49.4	74.2

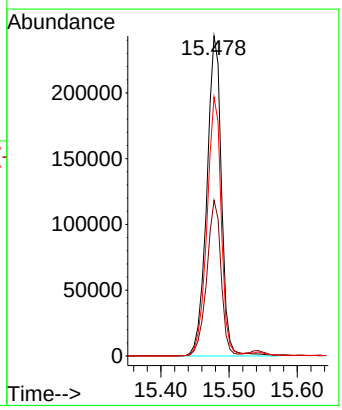


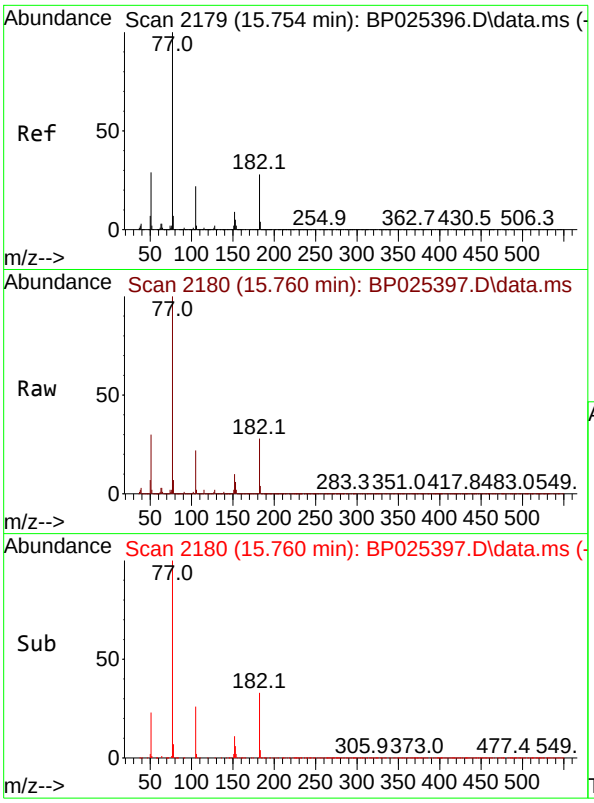


#62
4-Nitroaniline
Concen: 54.278 ng
RT: 15.478 min Scan# 2132
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:138 Resp: 364030

Ion	Ratio	Lower	Upper
138	100		
92	48.6	29.1	69.1
108	80.9	61.5	101.5



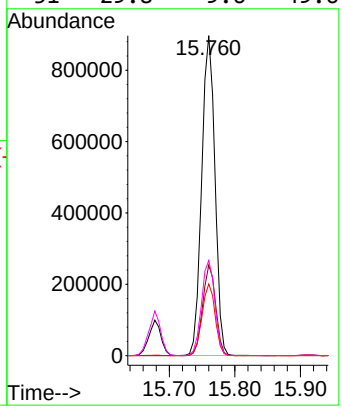


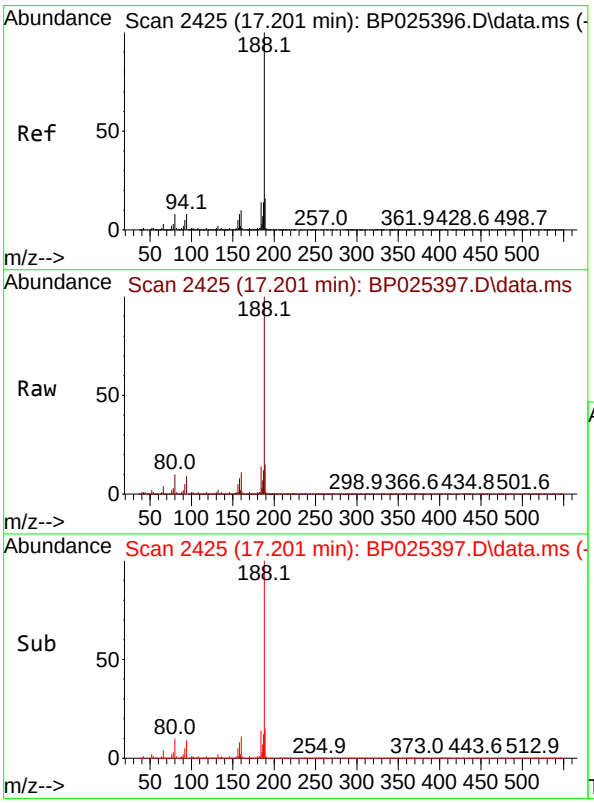
#63
Azobenzene
Concen: 52.602 ng
RT: 15.760 min Scan# 21
Delta R.T. 0.006 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion: 77 Resp: 1262576

Ion	Ratio	Lower	Upper
77	100		
182	28.3	7.5	47.5
105	22.4	2.1	42.1
51	29.8	9.6	49.6

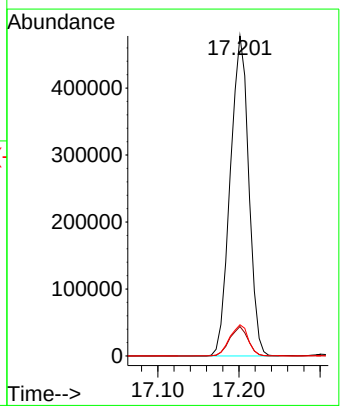


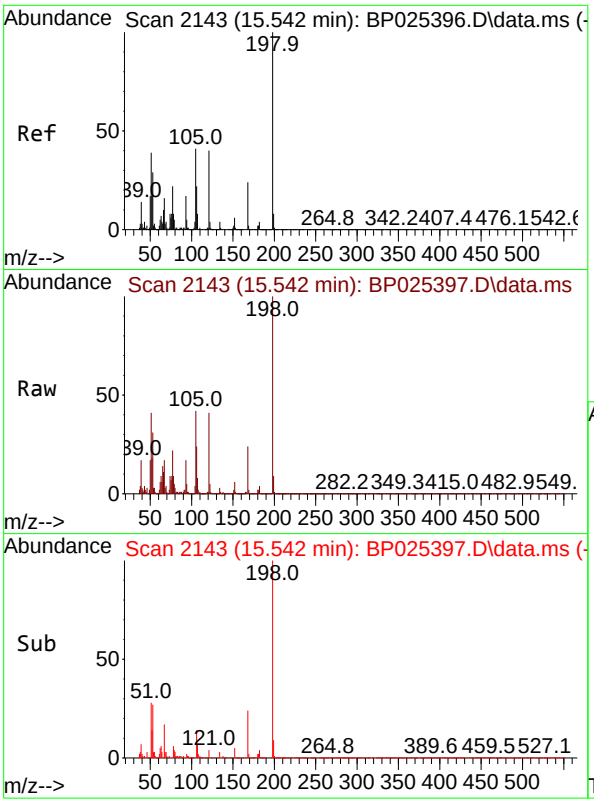


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.201 min Scan# 2425
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:188 Resp: 753705

Ion	Ratio	Lower	Upper
188	100		
94	9.2	6.6	10.0
80	9.8	6.7	10.1



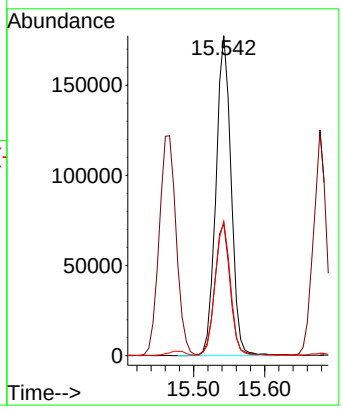


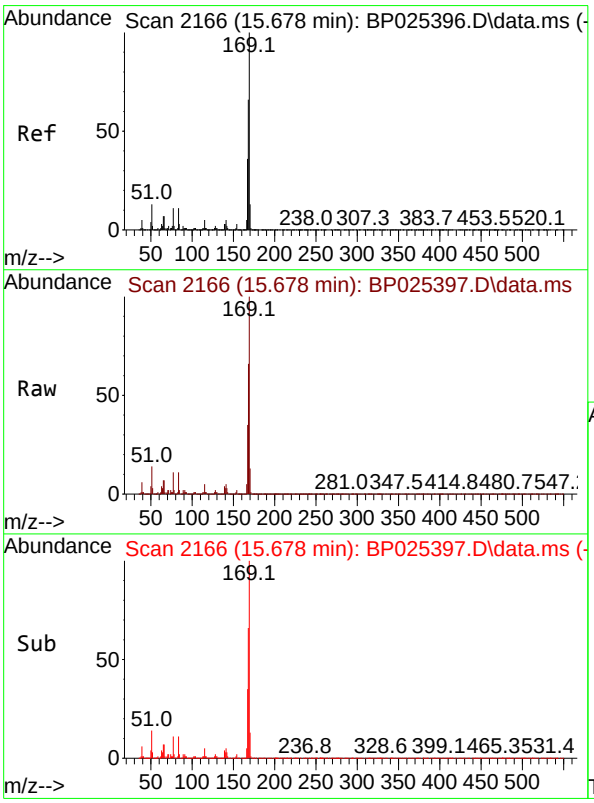
#65
4,6-Dinitro-2-methylphenol
Concen: 55.792 ng
RT: 15.542 min Scan# 21
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:198 Resp: 262126

Ion	Ratio	Lower	Upper
198	100		
51	41.2	19.6	59.6
105	42.0	20.9	60.9

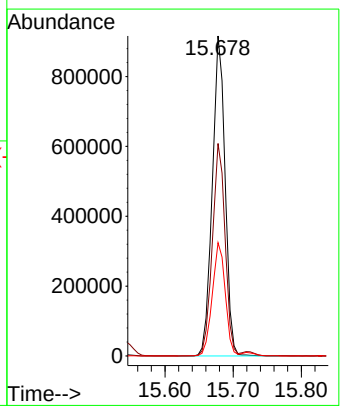


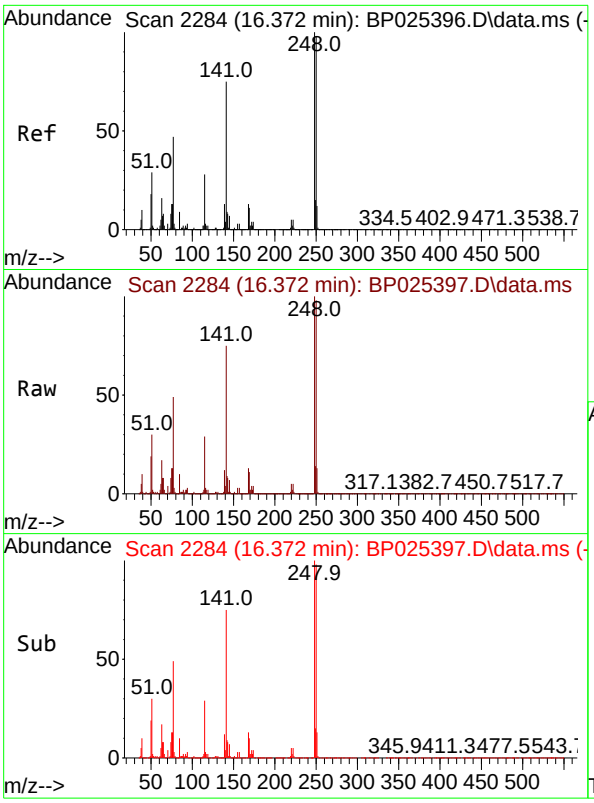


#66
n-Nitrosodiphenylamine
Concen: 51.997 ng
RT: 15.678 min Scan# 2166
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:169 Resp: 1195077

Ion	Ratio	Lower	Upper
169	100		
168	66.4	53.2	79.8
167	35.4	28.7	43.1



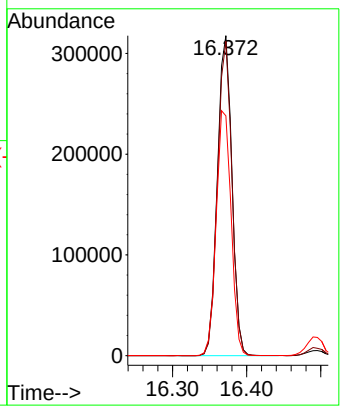


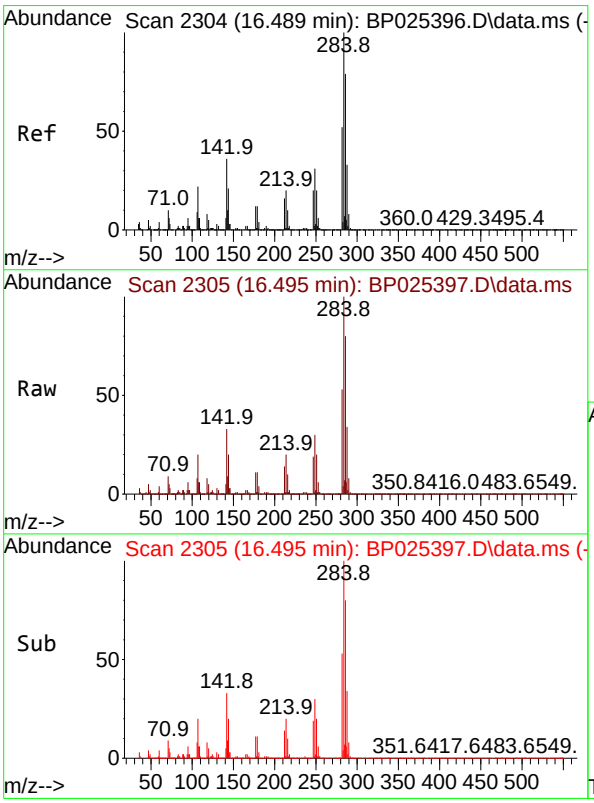
#67
4-Bromophenyl-phenylether
Concen: 52.325 ng
RT: 16.372 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:248 Resp: 433740

Ion	Ratio	Lower	Upper
248	100		
250	98.3	78.2	117.2
141	75.0	59.6	89.4

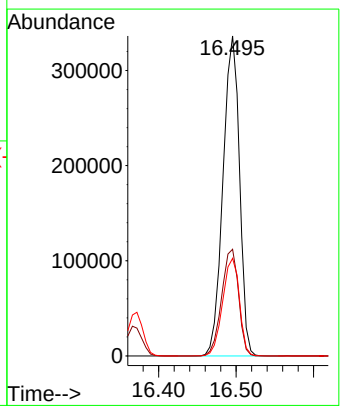


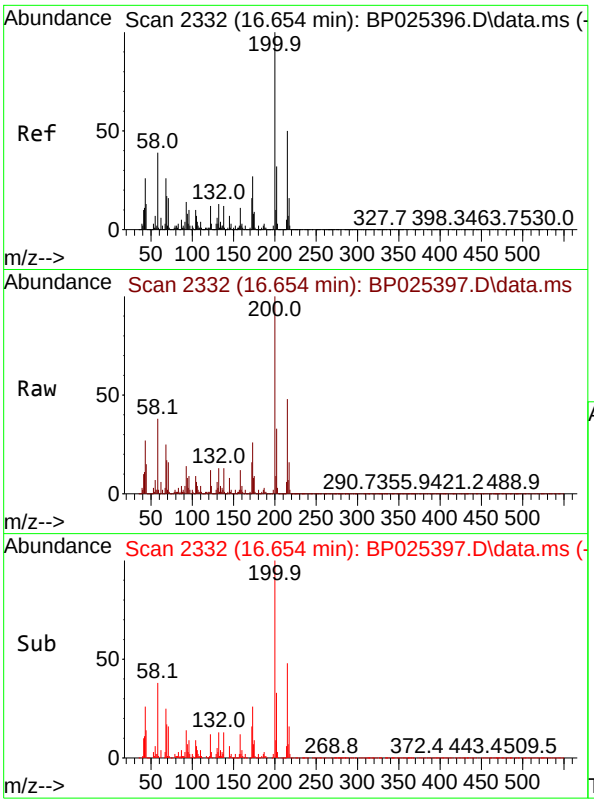


#68
Hexachlorobenzene
Concen: 51.816 ng
RT: 16.495 min Scan# 2305
Delta R.T. 0.006 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:284 Resp: 497906

Ion	Ratio	Lower	Upper
284	100		
142	33.3	29.1	43.7
249	30.5	25.0	37.4



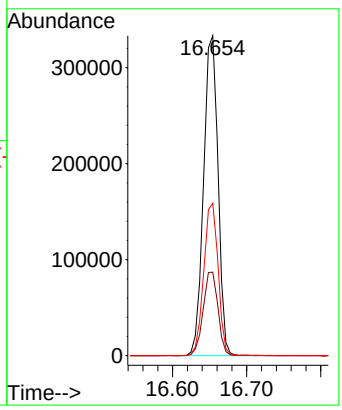


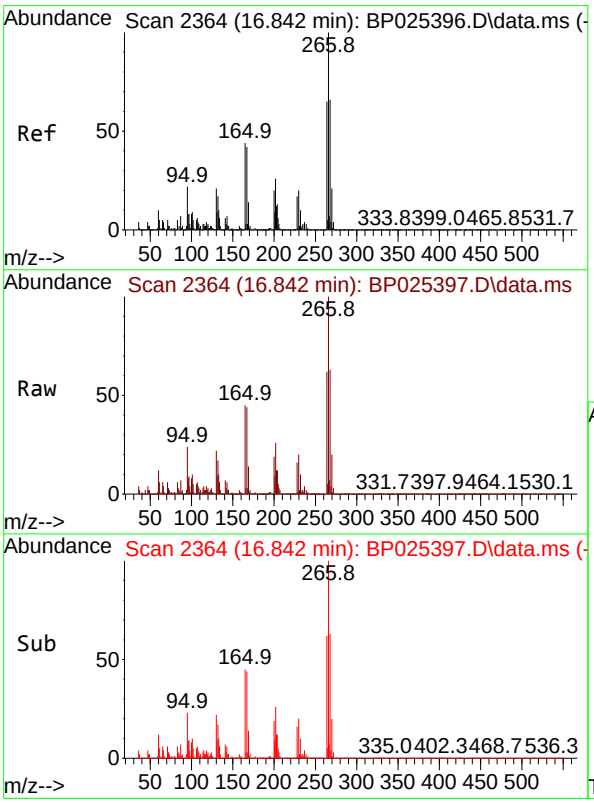
#69
Atrazine
Concen: 52.479 ng
RT: 16.654 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:200 Resp: 451704

Ion	Ratio	Lower	Upper
200	100		
173	26.1	6.7	46.7
215	47.7	29.7	69.7

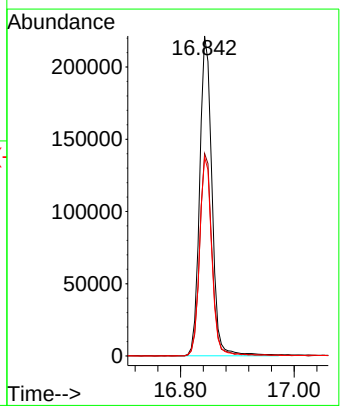


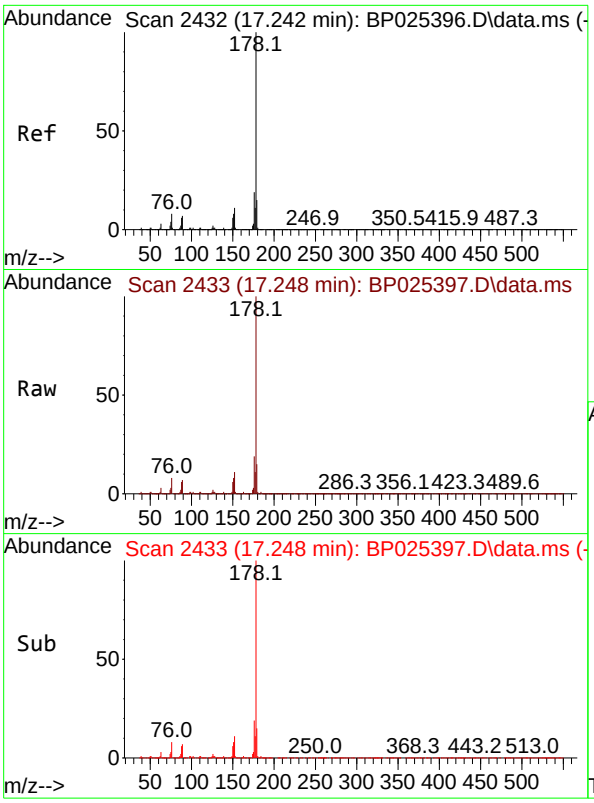


#70
Pentachlorophenol
Concen: 54.872 ng
RT: 16.842 min Scan# 2364
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:266 Resp: 332839

Ion	Ratio	Lower	Upper
266	100		
268	63.2	52.6	79.0
264	62.1	52.0	78.0



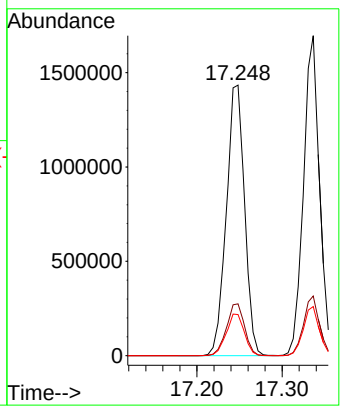


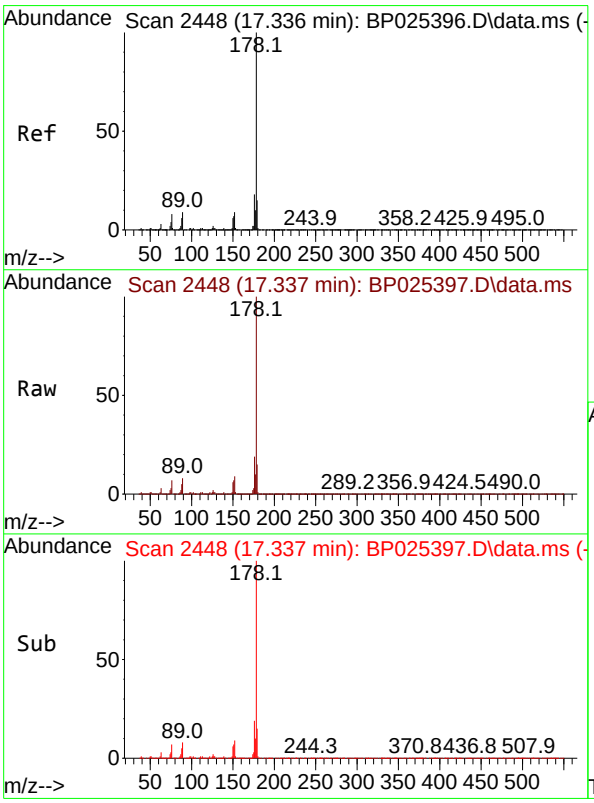
#71
Phenanthrene
Concen: 51.673 ng
RT: 17.248 min Scan# 24
Delta R.T. 0.006 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:178 Resp: 2139431

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.5	23.3
179	15.2	12.2	18.4

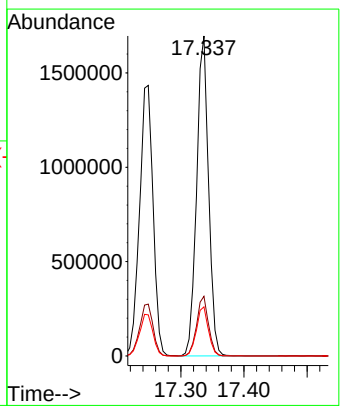


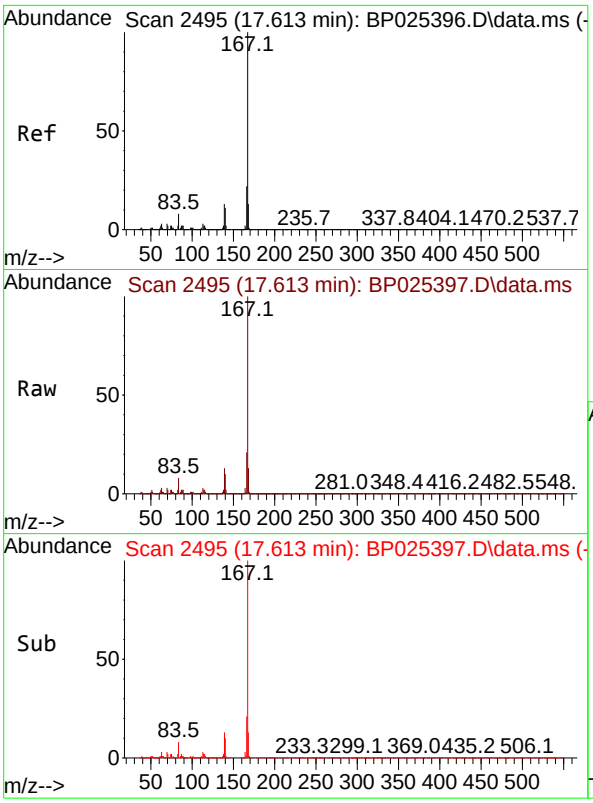


#72
Anthracene
Concen: 52.385 ng
RT: 17.337 min Scan# 2448
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:178 Resp: 2214911

Ion	Ratio	Lower	Upper
178	100		
176	18.6	14.7	22.1
179	15.4	12.2	18.2



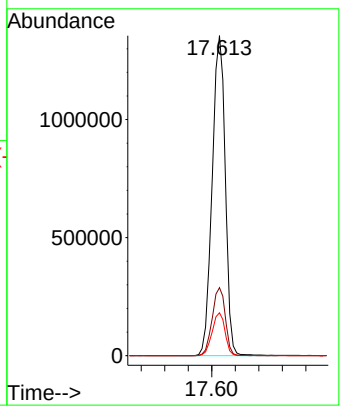


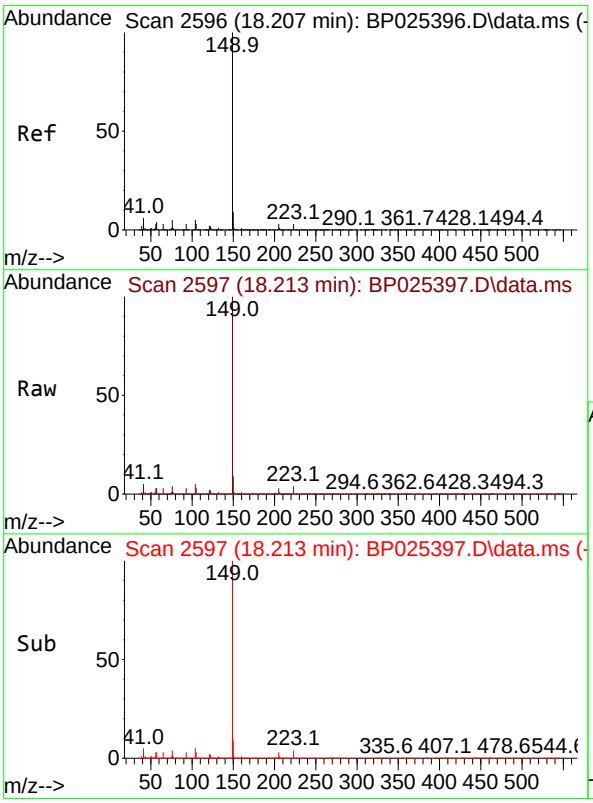
#73
Carbazole
Concen: 52.559 ng
RT: 17.613 min Scan# 24
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:167 Resp: 2093175

Ion	Ratio	Lower	Upper
167	100		
166	21.2	17.5	26.3
139	13.4	10.6	16.0

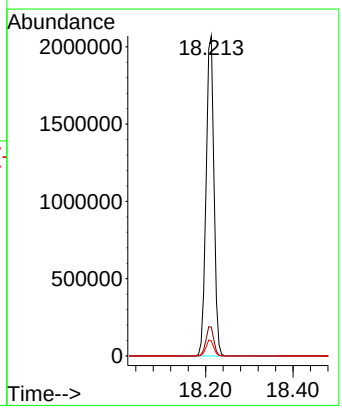


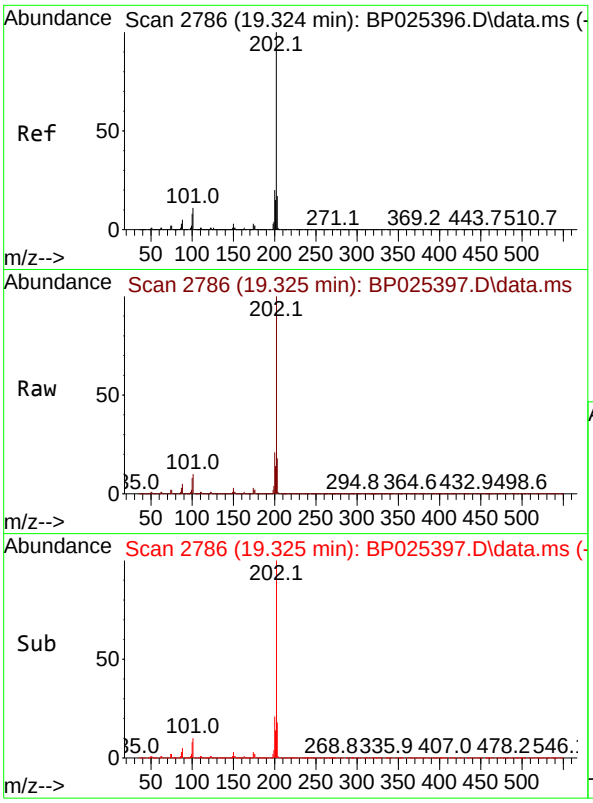


#74
Di-n-butylphthalate
Concen: 52.849 ng
RT: 18.213 min Scan# 2597
Delta R.T. 0.006 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:149 Resp: 2589522

Ion	Ratio	Lower	Upper
149	100		
150	9.0	7.4	11.0
104	4.7	4.2	6.2



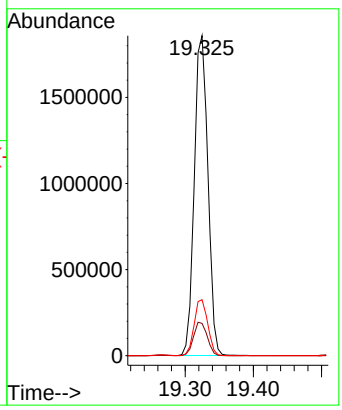


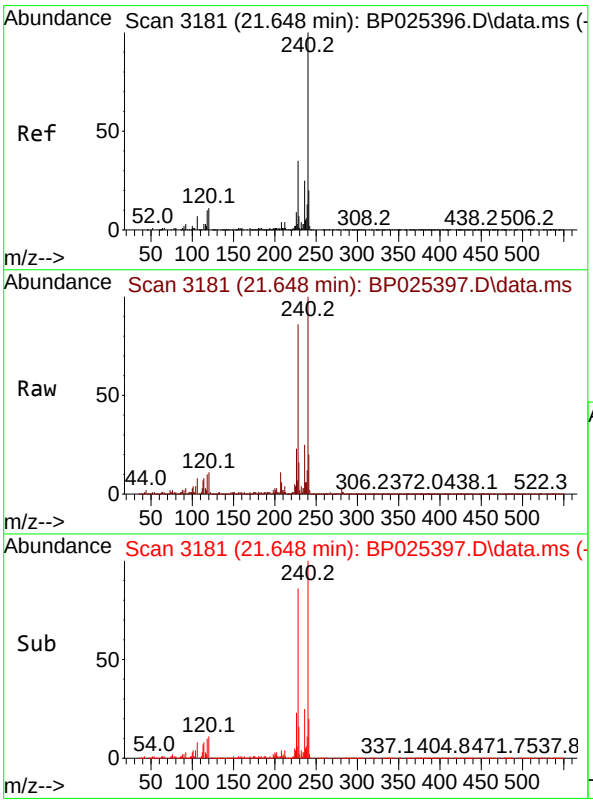
#75
Fluoranthene
Concen: 51.910 ng
RT: 19.325 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:202 Resp: 2563702

Ion	Ratio	Lower	Upper
202	100		
101	10.1	0.0	31.1
203	17.5	0.0	37.3

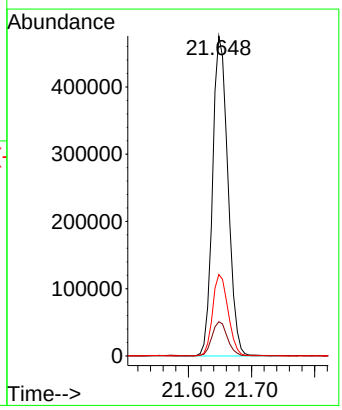


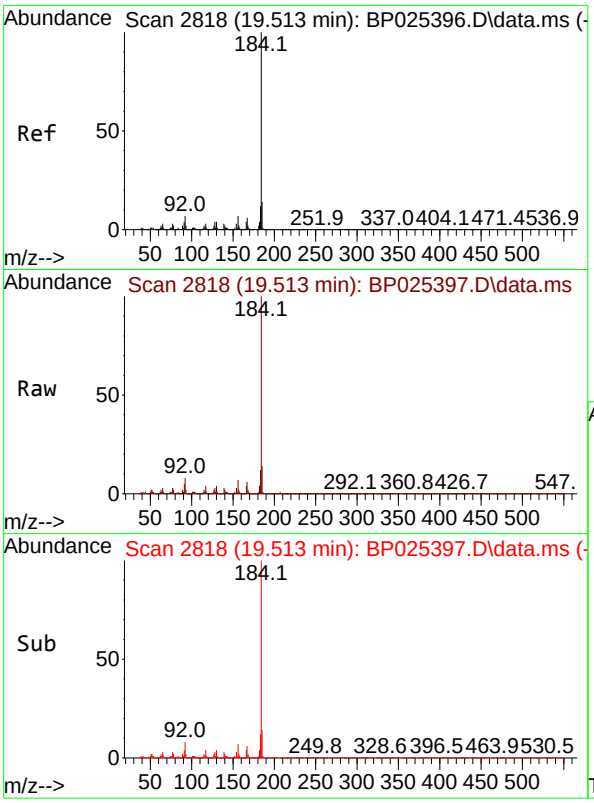


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.648 min Scan# 3181
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:240 Resp: 801742

Ion	Ratio	Lower	Upper
240	100		
120	10.7	8.9	13.3
236	25.5	19.8	29.8



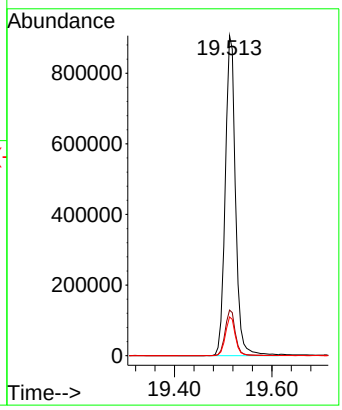


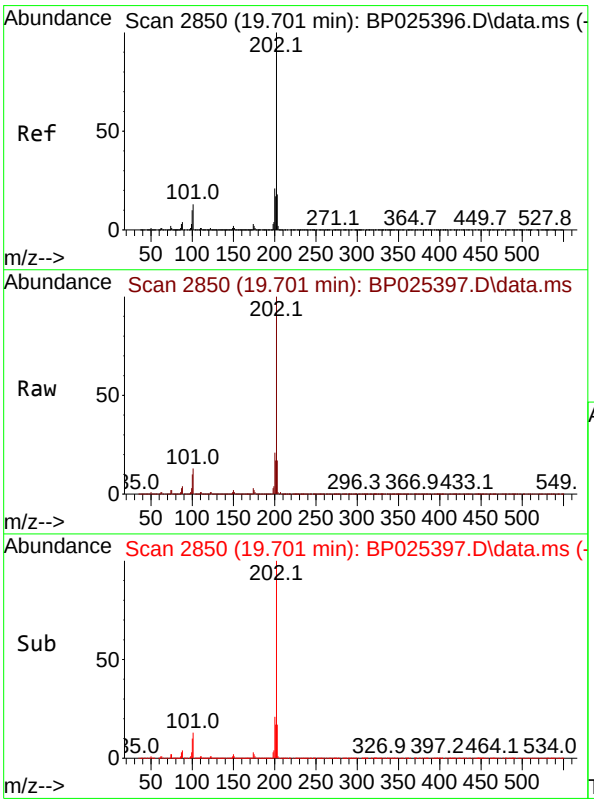
#77
Benzidine
Concen: 48.615 ng
RT: 19.513 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:184 Resp: 1330198

Ion	Ratio	Lower	Upper
184	100		
185	14.2	11.5	17.3
183	12.1	9.4	14.2

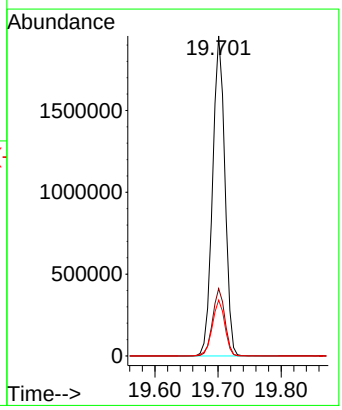


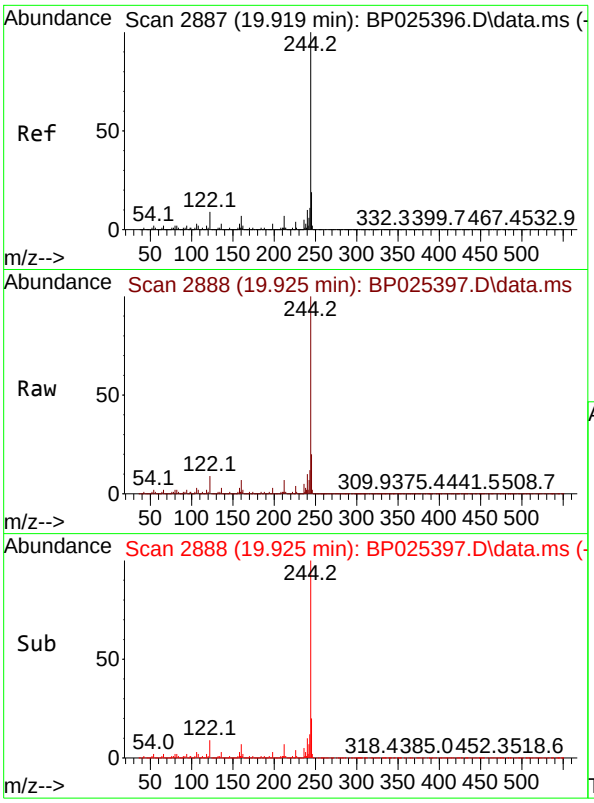


#78
Pyrene
Concen: 50.754 ng
RT: 19.701 min Scan# 2850
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:202 Resp: 2644850

Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.9	25.3
203	17.4	14.2	21.2



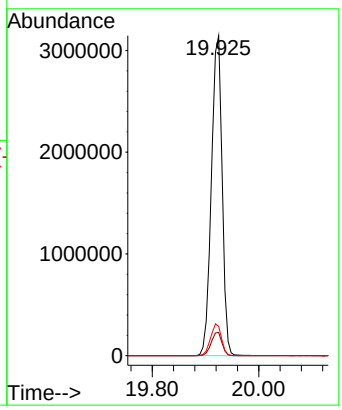


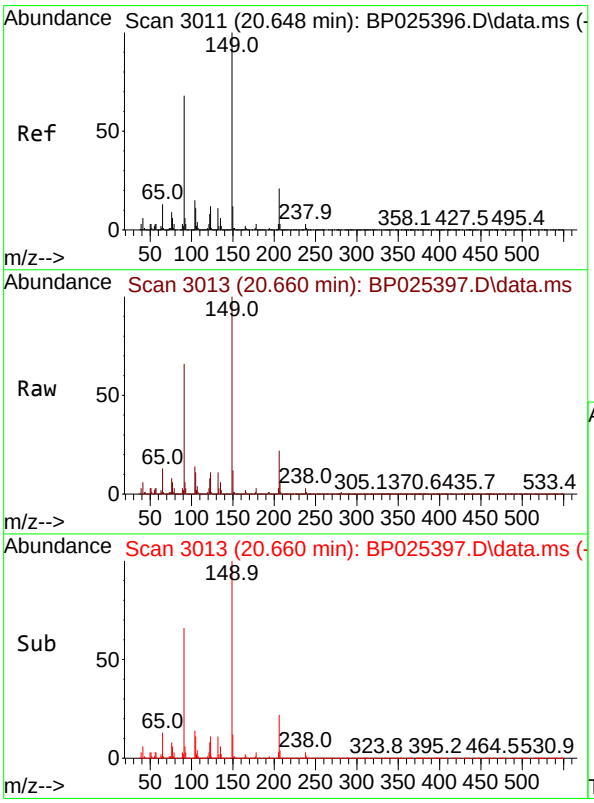
#79
Terphenyl-d14
Concen: 100.615 ng
RT: 19.925 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:244 Resp: 4409094

Ion	Ratio	Lower	Upper
244	100		
212	7.2	5.8	8.6
122	9.2	7.4	11.2

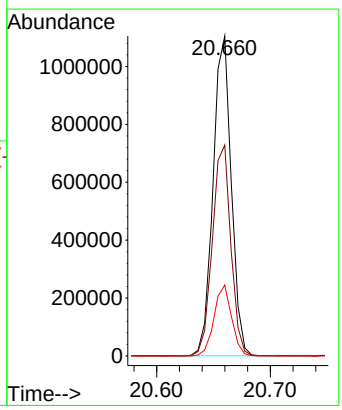


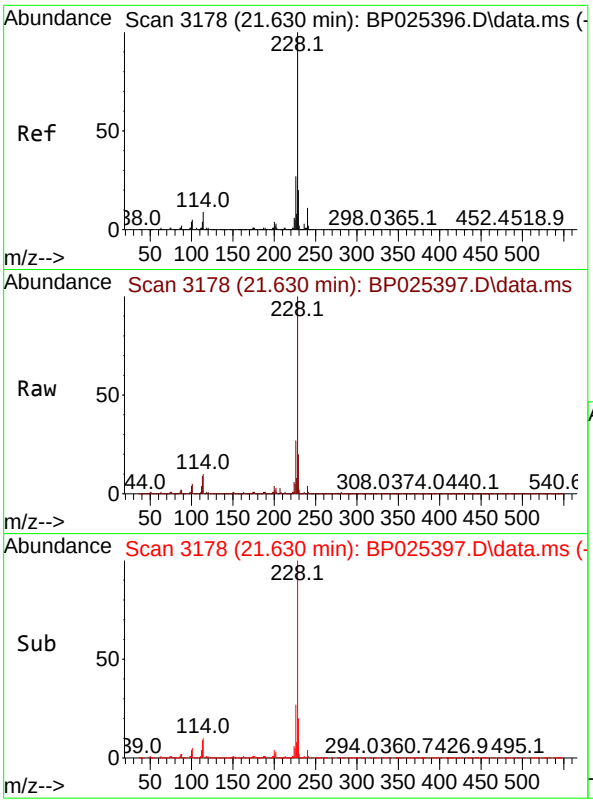


#80
Butylbenzylphthalate
Concen: 52.139 ng
RT: 20.660 min Scan# 3013
Delta R.T. 0.012 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:149 Resp: 1231376

Ion	Ratio	Lower	Upper
149	100		
91	65.9	54.2	81.2
206	22.2	16.6	24.8



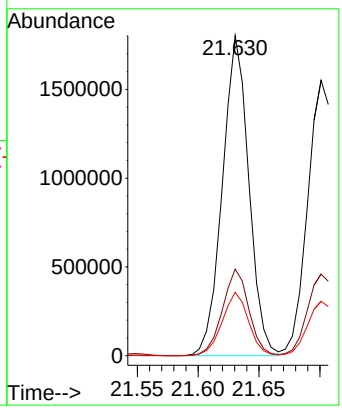


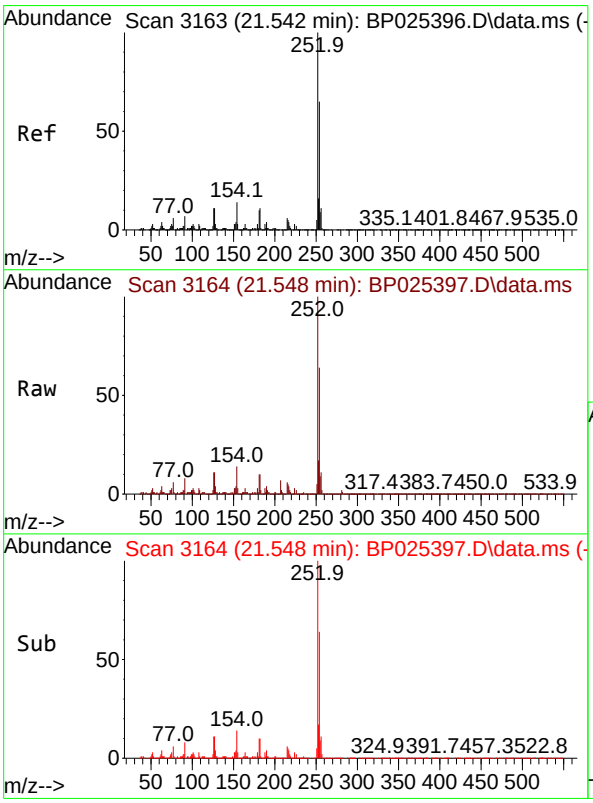
#81
Benzo(a)anthracene
Concen: 51.499 ng
RT: 21.630 min Scan# 3
Delta R.T. 0.000 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:228 Resp: 2723006

Ion	Ratio	Lower	Upper
228	100		
226	27.0	21.7	32.5
229	19.8	15.6	23.4

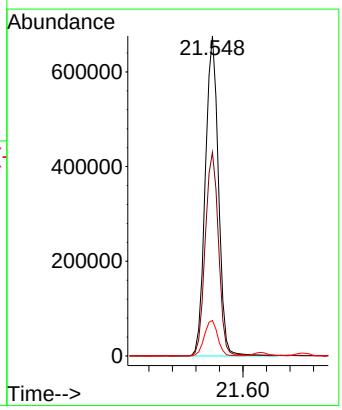


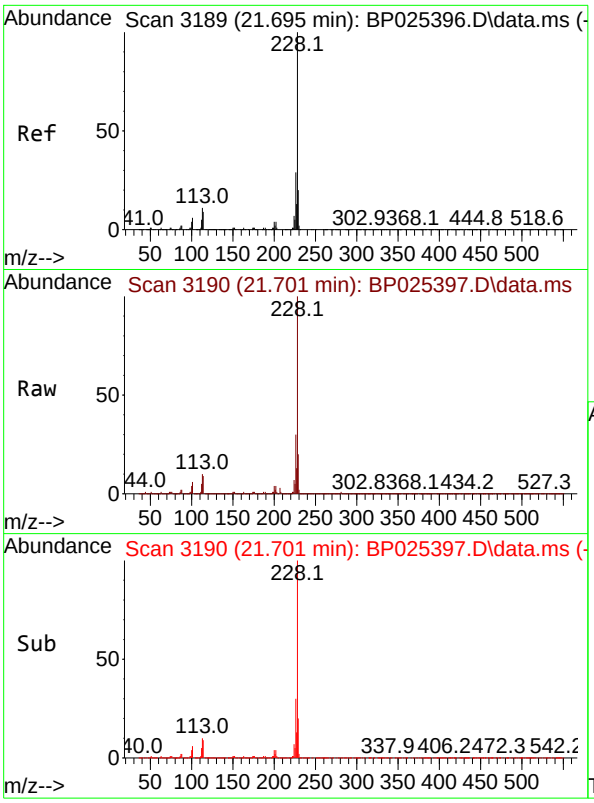


#82
3,3'-Dichlorobenzidine
Concen: 52.357 ng
RT: 21.548 min Scan# 3164
Delta R.T. 0.006 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:252 Resp: 1043476

Ion	Ratio	Lower	Upper
252	100		
254	63.7	51.8	77.6
126	11.1	9.1	13.7



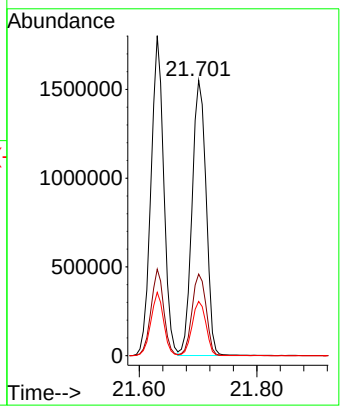


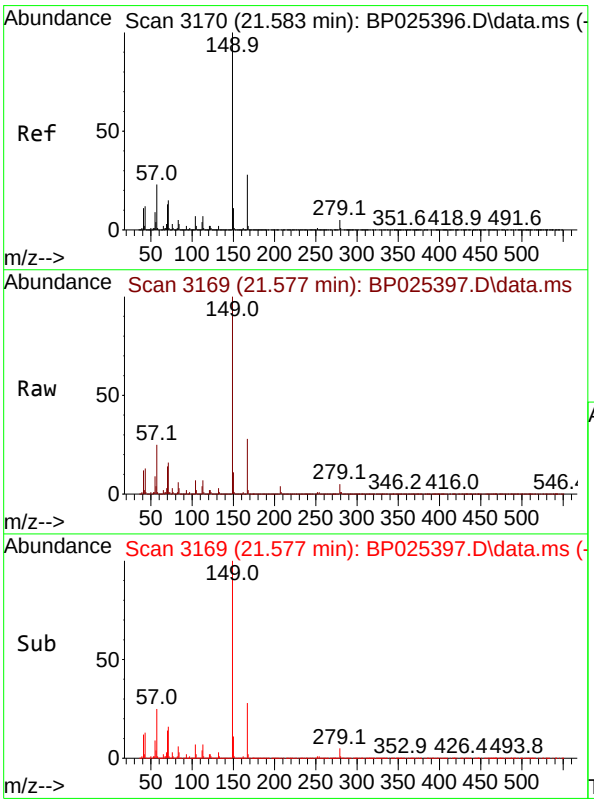
#83
Chrysene
Concen: 51.817 ng
RT: 21.701 min Scan# 3
Delta R.T. 0.006 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:228 Resp: 2565856

Ion	Ratio	Lower	Upper
228	100		
226	29.6	23.2	34.8
229	19.7	15.6	23.4

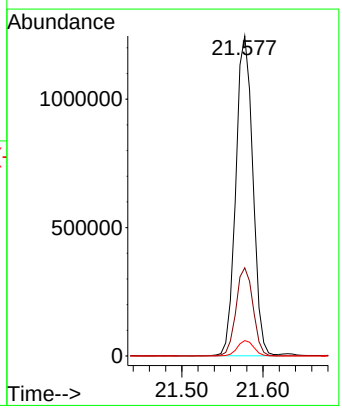


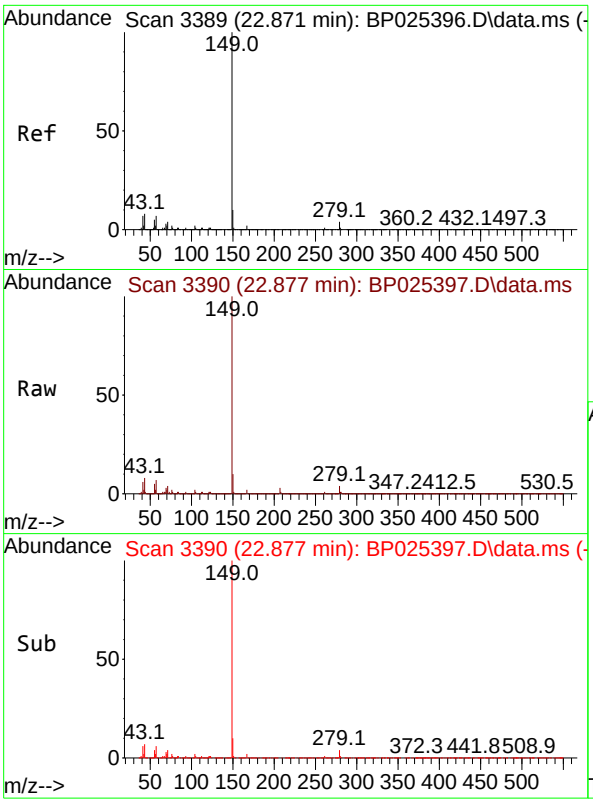


#84
Bis(2-ethylhexyl)phthalate
Concen: 51.933 ng
RT: 21.577 min Scan# 3169
Delta R.T. -0.006 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:149 Resp: 1805478

Ion	Ratio	Lower	Upper
149	100		
167	27.6	22.1	33.1
279	4.8	3.8	5.6



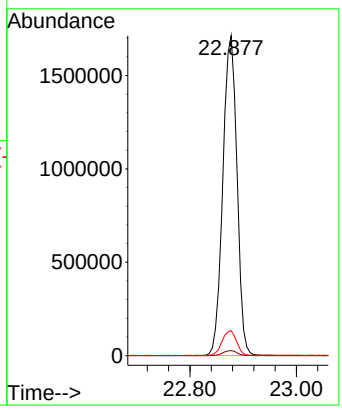


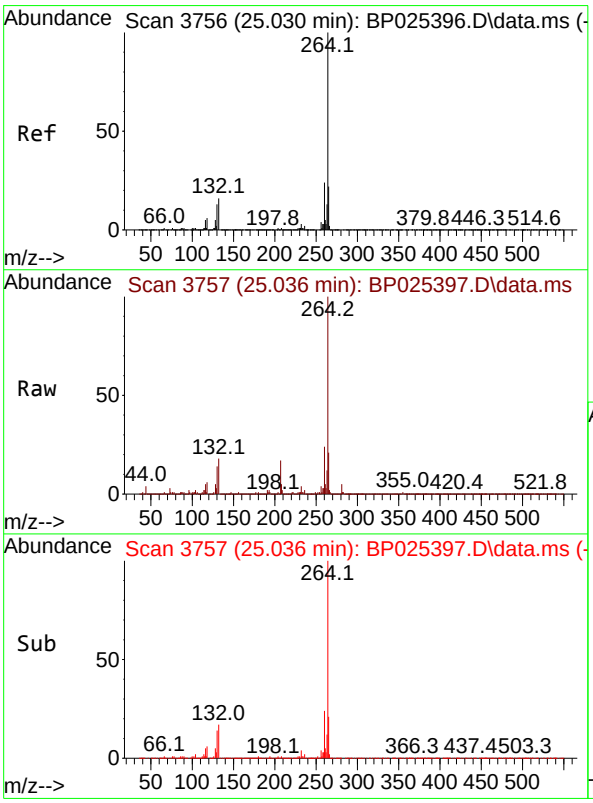
#85
Di-n-octyl phthalate
Concen: 52.690 ng
RT: 22.877 min Scan# 3
Delta R.T. 0.006 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:149 Resp: 3150824

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	7.9	6.3	9.5

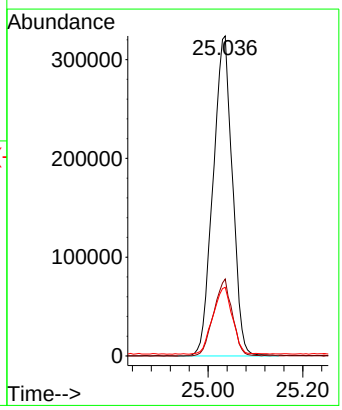


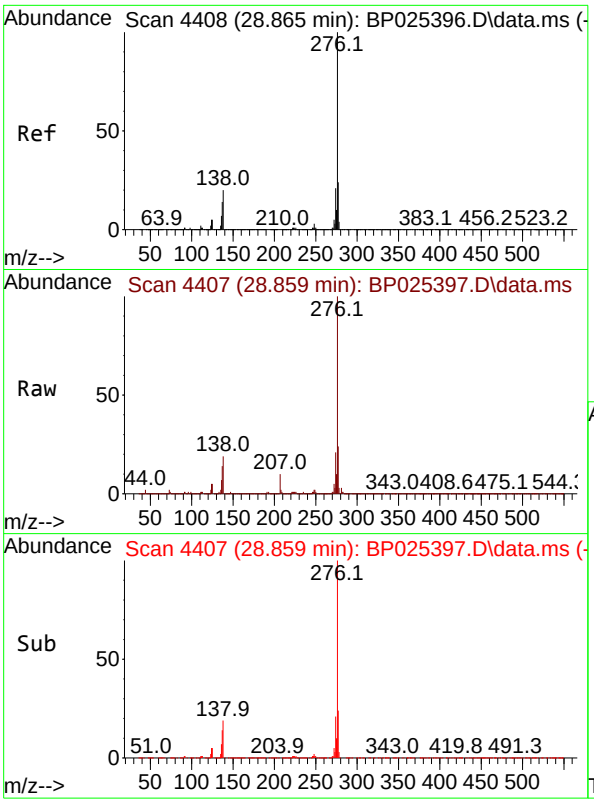


#86
Perylene-d12
Concen: 20.000 ng
RT: 25.036 min Scan# 3757
Delta R.T. 0.006 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:264 Resp: 918939

Ion	Ratio	Lower	Upper
264	100		
260	24.1	19.3	28.9
265	21.5	17.4	26.0



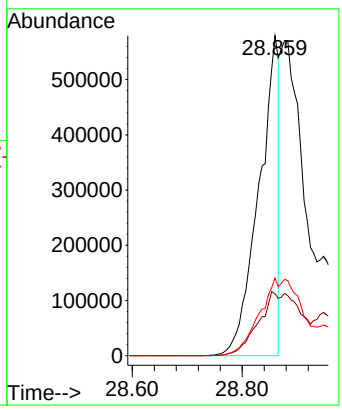


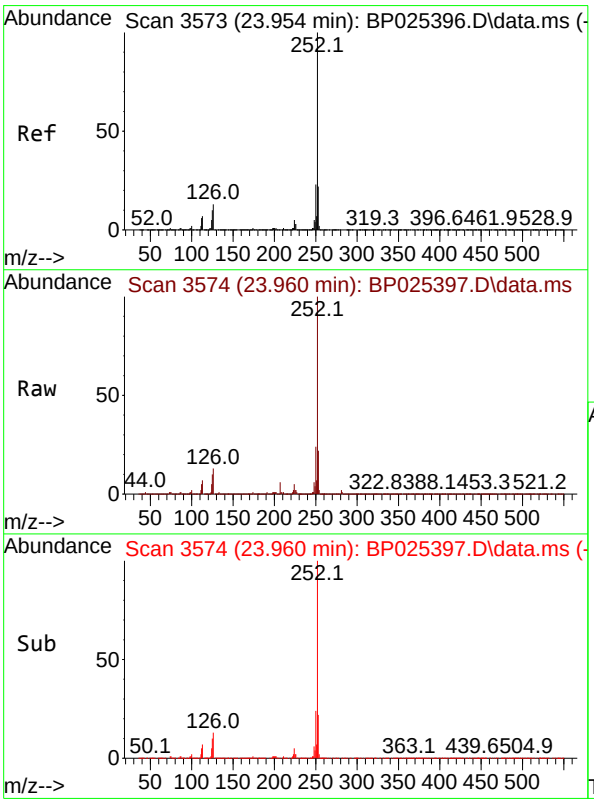
#87
Indeno(1,2,3-cd)pyrene
Concen: 21.464 ng
RT: 28.859 min Scan# 4
Delta R.T. -0.006 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:276 Resp: 1446981

Ion	Ratio	Lower	Upper
276	100		
138	20.6	12.9	19.3#
277	24.2	17.0	25.6

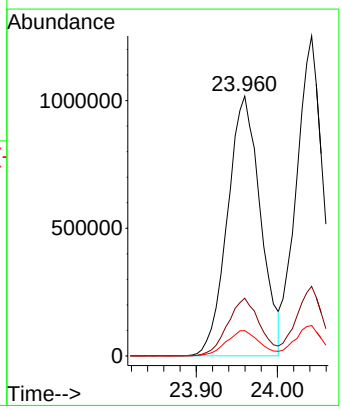


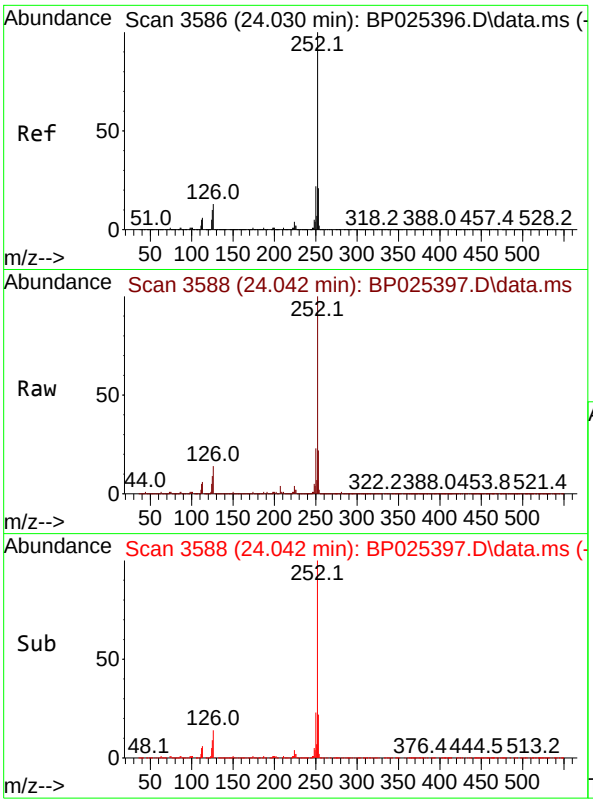


#88
Benzo(b)fluoranthene
Concen: 52.982 ng
RT: 23.960 min Scan# 3574
Delta R.T. 0.006 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:252 Resp: 2870971

Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.7	26.5
125	9.8	7.9	11.9



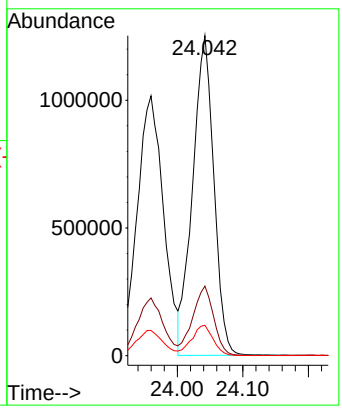


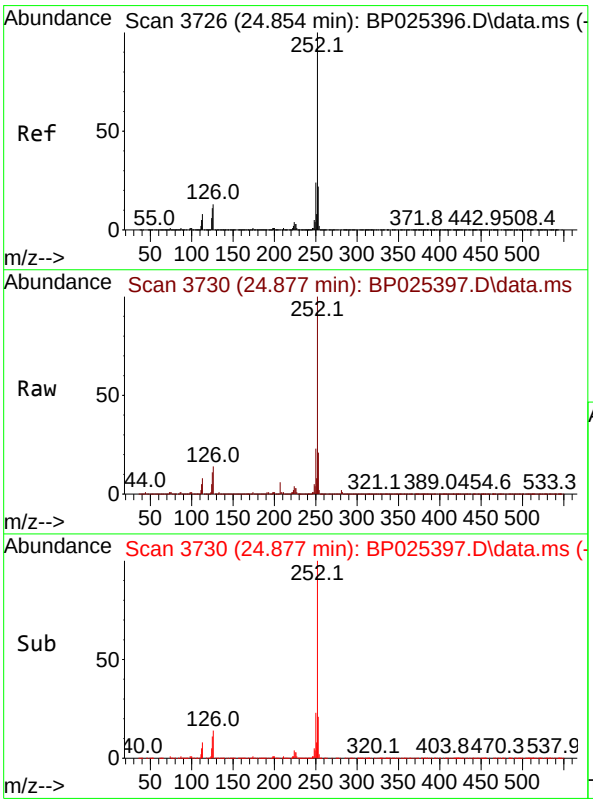
#89
Benzo(k)fluoranthene
Concen: 51.956 ng
RT: 24.042 min Scan# 3
Delta R.T. 0.012 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:252 Resp: 2817276

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.1	25.7
125	9.5	7.8	11.6

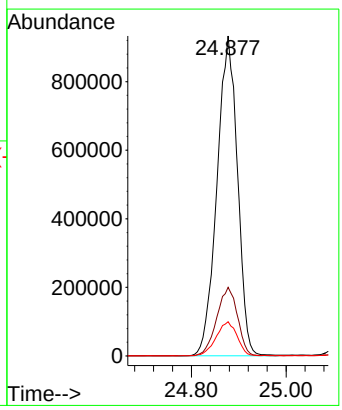


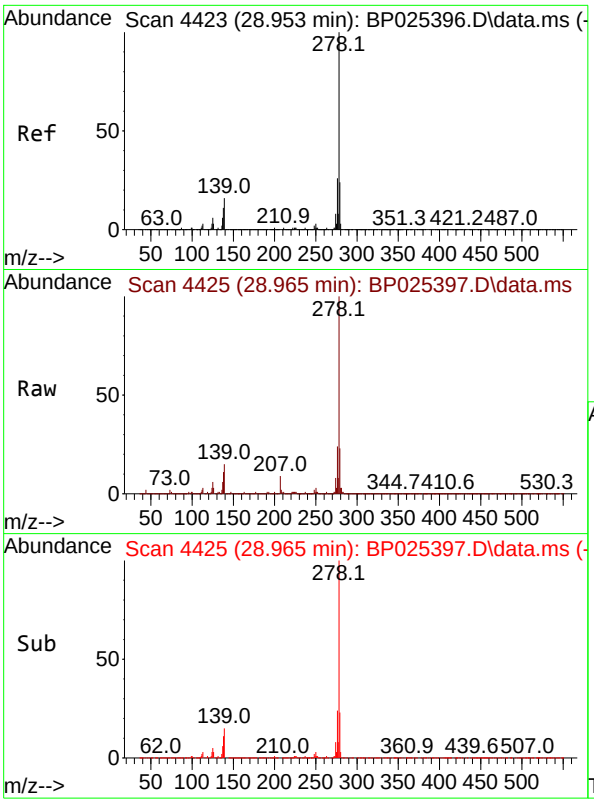


#90
Benzo(a)pyrene
Concen: 53.100 ng
RT: 24.877 min Scan# 3730
Delta R.T. 0.024 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:252 Resp: 2800880

Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.5	26.3
125	10.7	8.7	13.1



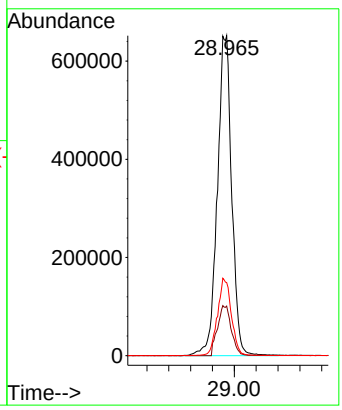


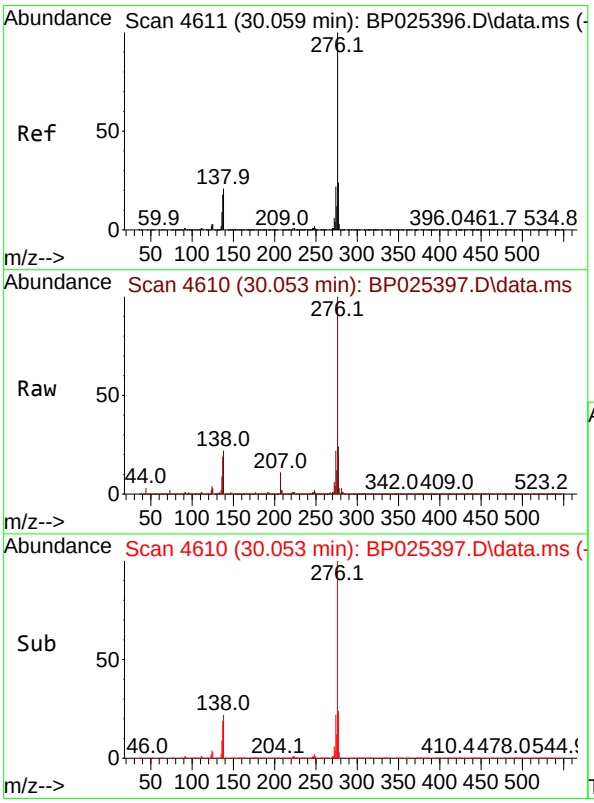
#91
Dibenzo(a,h)anthracene
Concen: 53.795 ng
RT: 28.965 min Scan# 4
Delta R.T. 0.012 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:278 Resp: 2962622

Ion	Ratio	Lower	Upper
278	100		
139	15.5	13.0	19.4
279	22.9	19.4	29.2

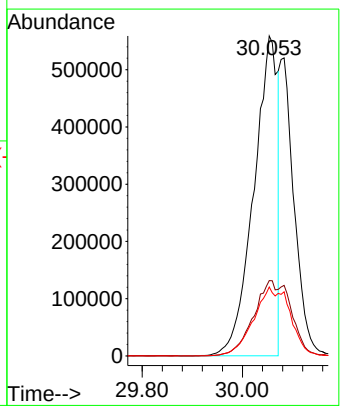




#92
Benzo(g,h,i)perylene
Concen: 34.009 ng
RT: 30.053 min Scan# 4610
Delta R.T. -0.006 min
Lab File: BP025397.D
Acq: 14 Aug 2025 16:01

Tgt Ion:276 Resp: 1840881

Ion	Ratio	Lower	Upper
276	100		
277	23.5	19.4	29.0
138	21.6	16.7	25.1



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081425\
Data File : BP025399.D
Acq On : 14 Aug 2025 17:24
Operator : CG/JU
Sample : SSTDICC080
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Quant Time: Aug 14 17:59:43 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 17:44:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.796	152	159148	20.000	ng	0.00
21) Naphthalene-d8	10.566	136	673018	20.000	ng	0.00
39) Acenaphthene-d10	14.401	164	436046	20.000	ng	0.00
64) Phenanthrene-d10	17.201	188	856946	20.000	ng	# 0.00
76) Chrysene-d12	21.660	240	888879	20.000	ng	0.01
86) Perylene-d12	25.030	264	1037707	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.408	112	1526166	159.254	ng	0.00
7) Phenol-d6	6.972	99	1989633	161.937	ng	0.00
23) Nitrobenzene-d5	8.937	82	2123522	159.609	ng	0.00
42) 2,4,6-Tribromophenol	15.913	330	936489	159.559	ng	0.00
45) 2-Fluorobiphenyl	13.019	172	4712591	147.705	ng	0.00
79) Terphenyl-d14	19.930	244	7103816	146.217	ng	0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	3.337	88	291527	77.664	ng	99
3) Pyridine	3.731	79	807269	78.572	ng	97
4) n-Nitrosodimethylamine	3.637	42	344349	81.296	ng	99
6) Aniline	7.131	93	1333221	80.538	ng	100
8) 2-Chlorophenol	7.372	128	877073	81.104	ng	99
9) Benzaldehyde	6.943	77	582344	67.651	ng	98
10) Phenol	7.002	94	1040534	80.710	ng	98
11) bis(2-Chloroethyl)ether	7.219	93	798672	79.481	ng	99
12) 1,3-Dichlorobenzene	7.684	146	950596	79.718	ng	98
13) 1,4-Dichlorobenzene	7.825	146	961421	78.882	ng	99
14) 1,2-Dichlorobenzene	8.143	146	922658	78.203	ng	99
15) Benzyl Alcohol	8.031	79	795618	81.498	ng	98
16) 2,2'-oxybis(1-Chloropr...	8.319	45	1059824	78.732	ng	99
17) 2-Methylphenol	8.225	107	734482	82.028	ng	100
18) Hexachloroethane	8.866	117	355791	79.395	ng	94
19) n-Nitroso-di-n-propyla...	8.596	70	636387	78.102	ng	99
20) 3+4-Methylphenols	8.555	107	1005632	81.023	ng	97
22) Acetophenone	8.607	105	1314548	77.886	ng	99
24) Nitrobenzene	8.978	77	947511	79.686	ng	99
25) Isophorone	9.507	82	1829675	77.708	ng	99
26) 2-Nitrophenol	9.678	139	511806	83.872	ng	99
27) 2,4-Dimethylphenol	9.743	122	842467	80.280	ng	100
28) bis(2-Chloroethoxy)met...	9.972	93	1103640	77.542	ng	99
29) 2,4-Dichlorophenol	10.213	162	844787	81.037	ng	99
30) 1,2,4-Trichlorobenzene	10.425	180	892771	78.123	ng	98
31) Naphthalene	10.613	128	2722703	77.835	ng	99
32) Benzoic acid	9.901	122	686791	88.861	ng	99
33) 4-Chloroaniline	10.713	127	1232431	79.761	ng	100
34) Hexachlorobutadiene	10.901	225	557922	78.393	ng	99
35) Caprolactam	11.519	113	302874	79.233	ng	95
36) 4-Chloro-3-methylphenol	11.843	107	949779	79.399	ng	99
37) 2-Methylnaphthalene	12.213	142	1761325	77.372	ng	99
38) 1-Methylnaphthalene	12.437	142	1844376	76.186	ng	99
40) 1,2,4,5-Tetrachloroben...	12.584	216	995064	79.014	ng	100
41) Hexachlorocyclopentadiene	12.572	237	668771	87.916	ng	99
43) 2,4,6-Trichlorophenol	12.825	196	706484	83.096	ng	98

Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081425\
Data File : BP025399.D
Acq On : 14 Aug 2025 17:24
Operator : CG/JU
Sample : SSTDICC080
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Quant Time: Aug 14 17:59:43 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 17:44:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.901	196	762861	81.870	ng	99
46) 1,1'-Biphenyl	13.231	154	2453536	77.476	ng	99
47) 2-Chloronaphthalene	13.272	162	1918120	77.804	ng	100
48) 2-Nitroaniline	13.472	65	594696	82.788	ng	96
49) Acenaphthylene	14.125	152	3194918	78.318	ng	100
50) Dimethylphthalate	13.860	163	2446951	76.632	ng	99
51) 2,6-Dinitrotoluene	13.972	165	542710	80.639	ng	99
52) Acenaphthene	14.472	154	1841448	76.902	ng	99
53) 3-Nitroaniline	14.301	138	618087	81.627	ng	100
54) 2,4-Dinitrophenol	14.507	184	339125	94.356	ng	100
55) Dibenzofuran	14.807	168	2915933	77.023	ng	99
56) 4-Nitrophenol	14.619	139	520294	83.618	ng	96
57) 2,4-Dinitrotoluene	14.766	165	791214	82.399	ng	99
58) Fluorene	15.466	166	2185593	73.164	ng	98
59) 2,3,4,6-Tetrachlorophenol	15.031	232	661890	80.448	ng	100
60) Diethylphthalate	15.242	149	2494087	76.870	ng	100
61) 4-Chlorophenyl-phenyle...	15.460	204	1105157	74.388	ng	97
62) 4-Nitroaniline	15.484	138	626525	80.710	ng	97
63) Azobenzene	15.760	77	2139674	77.017	ng	99
65) 4,6-Dinitro-2-methylph...	15.542	198	472602	88.473	ng	93
66) n-Nitrosodiphenylamine	15.678	169	2034782	77.866	ng	100
67) 4-Bromophenyl-phenylether	16.372	248	745915	79.144	ng	98
68) Hexachlorobenzene	16.495	284	860051	78.721	ng	97
69) Atrazine	16.654	200	783533	80.064	ng	98
70) Pentachlorophenol	16.842	266	589673	85.502	ng	98
71) Phenanthrene	17.242	178	3623454	76.972	ng	99
72) Anthracene	17.336	178	3702277	77.014	ng	99
73) Carbazole	17.607	167	3503273	77.368	ng	99
74) Di-n-butylphthalate	18.219	149	4336701	77.844	ng	100
75) Fluoranthene	19.330	202	4313301	76.815	ng	99
77) Benzidine	19.525	184	2036246	67.124	ng	99
78) Pyrene	19.707	202	4410693	76.343	ng	99
80) Butylbenzylphthalate	20.660	149	2054404	78.460	ng	97
81) Benzo(a)anthracene	21.642	228	4532763	77.322	ng	100
82) 3,3'-Dichlorobenzidine	21.554	252	1705746	77.197	ng	100
83) Chrysene	21.707	228	4218161	76.835	ng	99
84) Bis(2-ethylhexyl)phtha...	21.583	149	3021891	78.400	ng	100
85) Di-n-octyl phthalate	22.877	149	5302080	79.974	ng	100
87) Indeno(1,2,3-cd)pyrene	28.895	276	5473121	71.894	ng	95
88) Benzo(b)fluoranthene	23.977	252	4876398	79.692	ng	100
89) Benzo(k)fluoranthene	24.054	252	4734637	77.323	ng	99
90) Benzo(a)pyrene	24.889	252	4735685	79.505	ng	99
91) Dibenzo(a,h)anthracene	28.983	278	5046260	81.142	ng	99
92) Benzo(g,h,i)perylene	30.106	276	4949477	80.973	ng	98

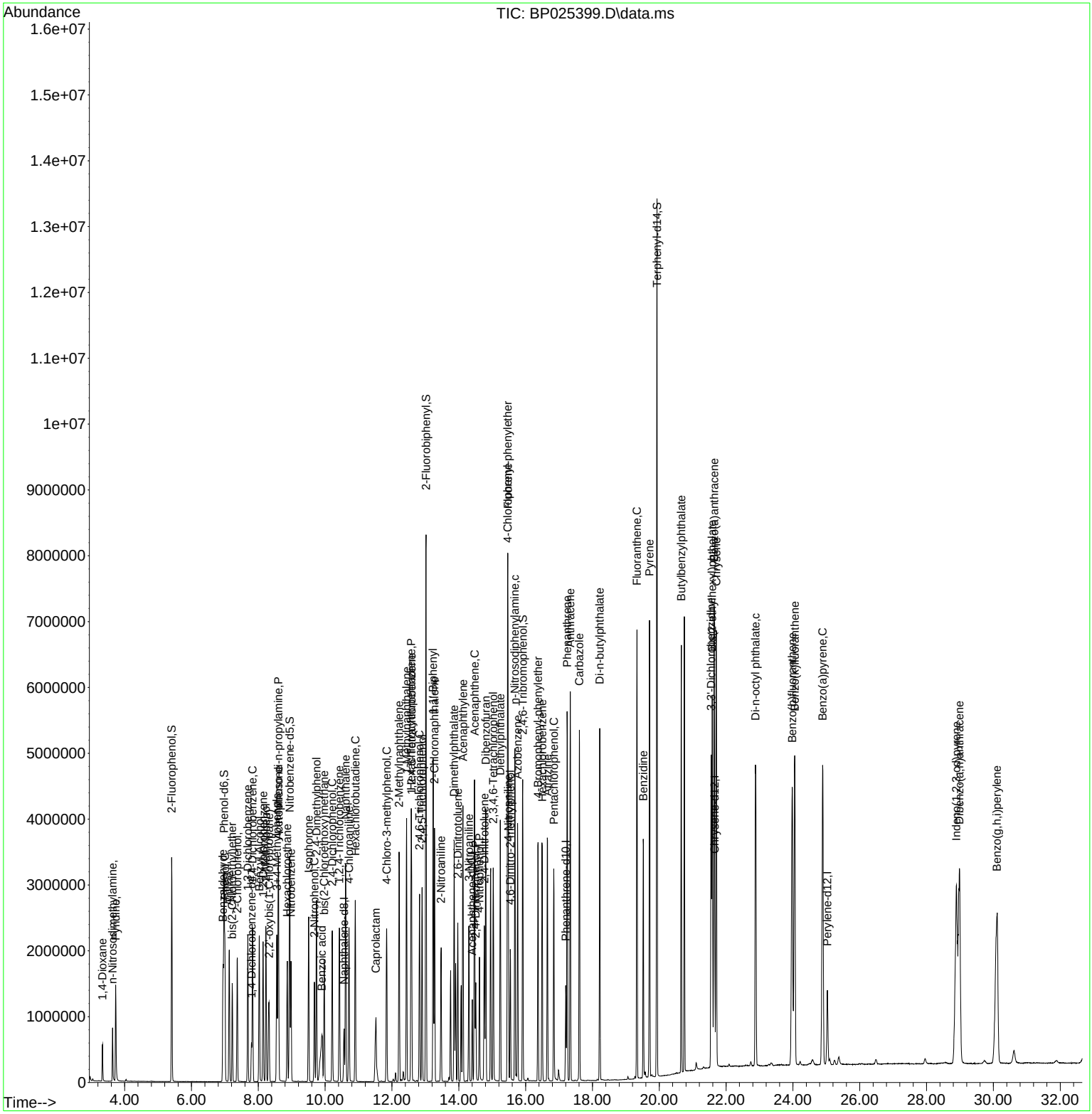
(#) = qualifier out of range (m) = manual integration (+) = signals summed

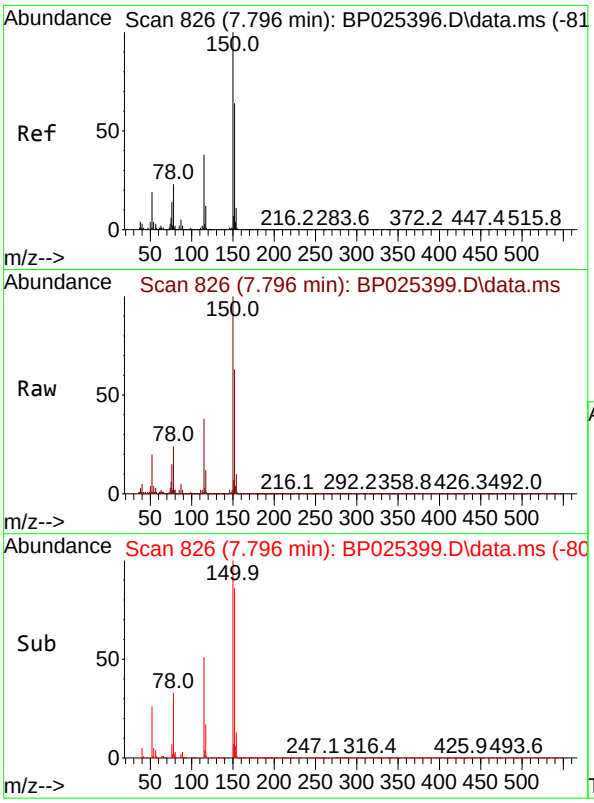
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081425\
Data File : BP025399.D
Acq On : 14 Aug 2025 17:24
Operator : CG/JU
Sample : SSTDICC080
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Quant Time: Aug 14 17:59:43 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 17:44:43 2025
Response via : Initial Calibration



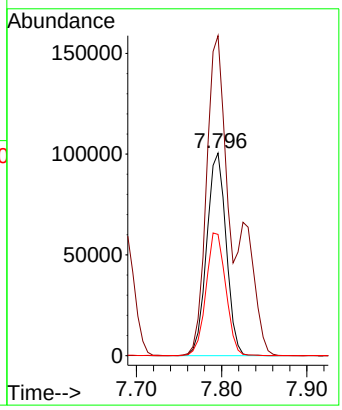


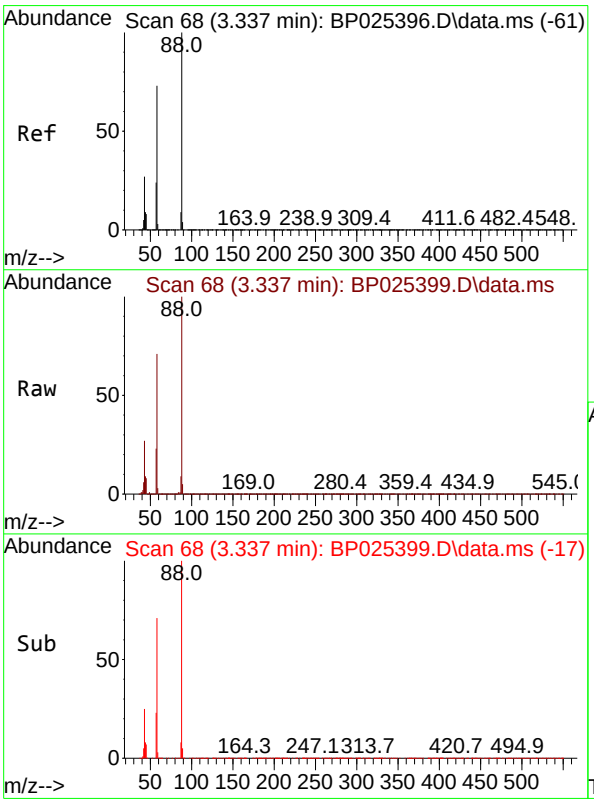
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.796 min Scan# 8
Delta R.T. -0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Tgt Ion:152 Resp: 159148

Ion	Ratio	Lower	Upper
152	100		
150	157.9	125.9	188.9
115	59.9	48.5	72.7

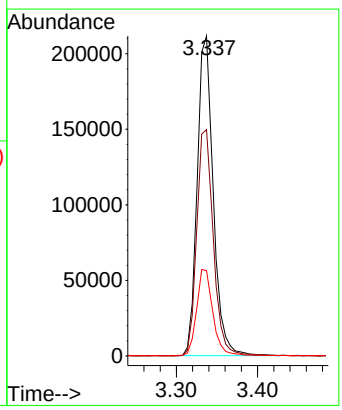


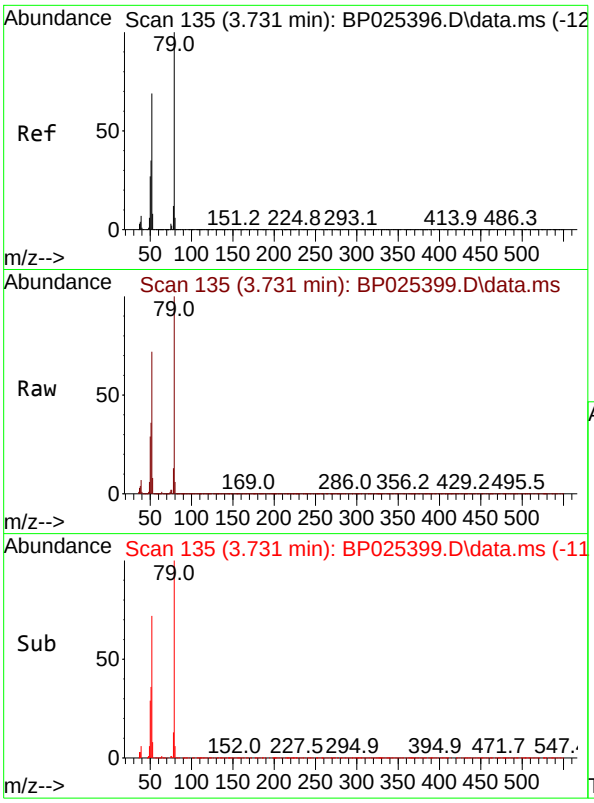


#2
1,4-Dioxane
Concen: 77.664 ng
RT: 3.337 min Scan# 68
Delta R.T. 0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion: 88 Resp: 291527

Ion	Ratio	Lower	Upper
88	100		
58	73.3	59.2	88.8
43	27.4	21.7	32.5



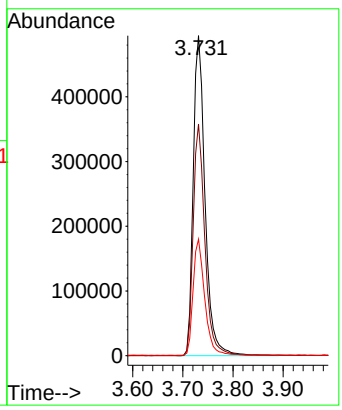


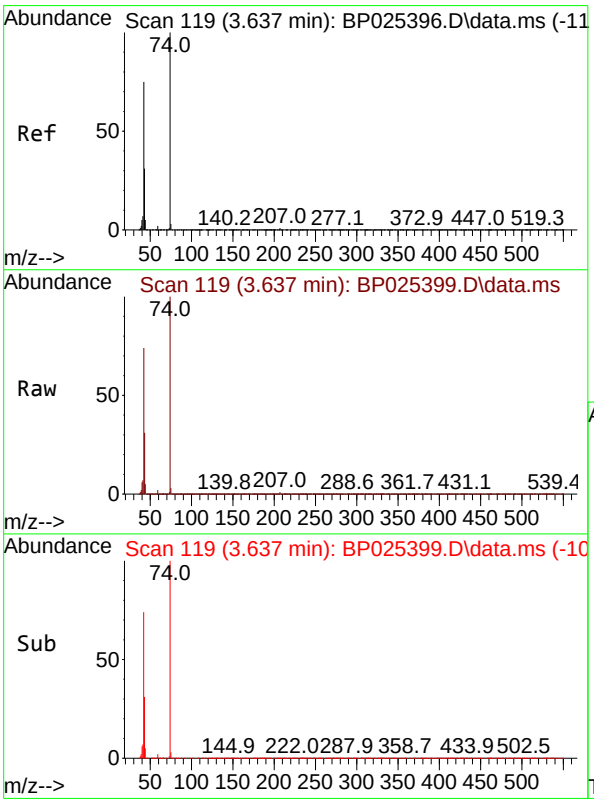
#3
Pyridine
Concen: 78.572 ng
RT: 3.731 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Tgt Ion: 79 Resp: 807269

Ion	Ratio	Lower	Upper
79	100		
52	72.4	55.5	83.3
51	36.4	28.3	42.5

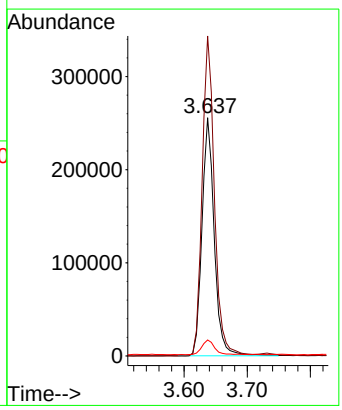


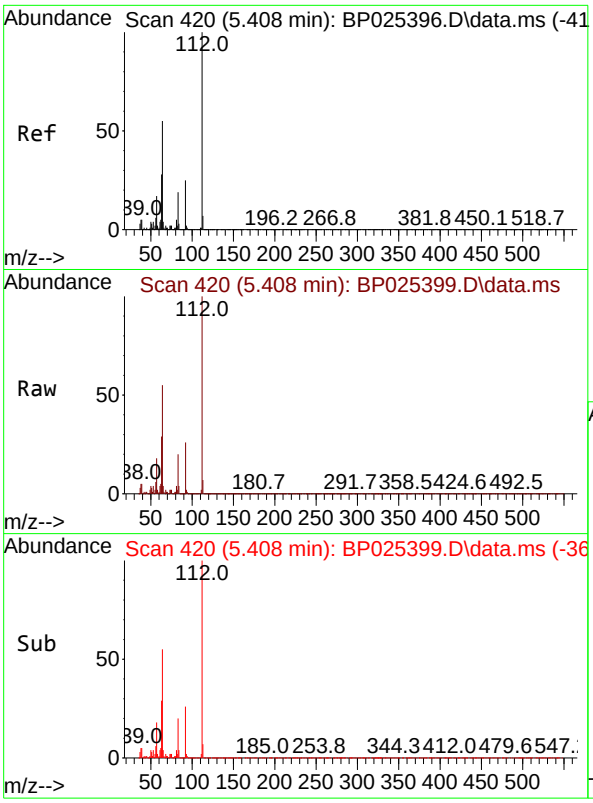


#4
n-Nitrosodimethylamine
Concen: 81.296 ng
RT: 3.637 min Scan# 119
Delta R.T. 0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion: 42 Resp: 344349

Ion	Ratio	Lower	Upper
42	100		
74	134.3	107.0	160.4
44	6.7	6.2	9.4



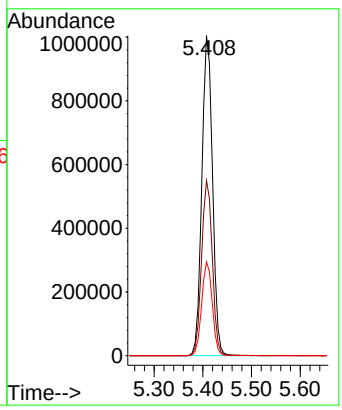


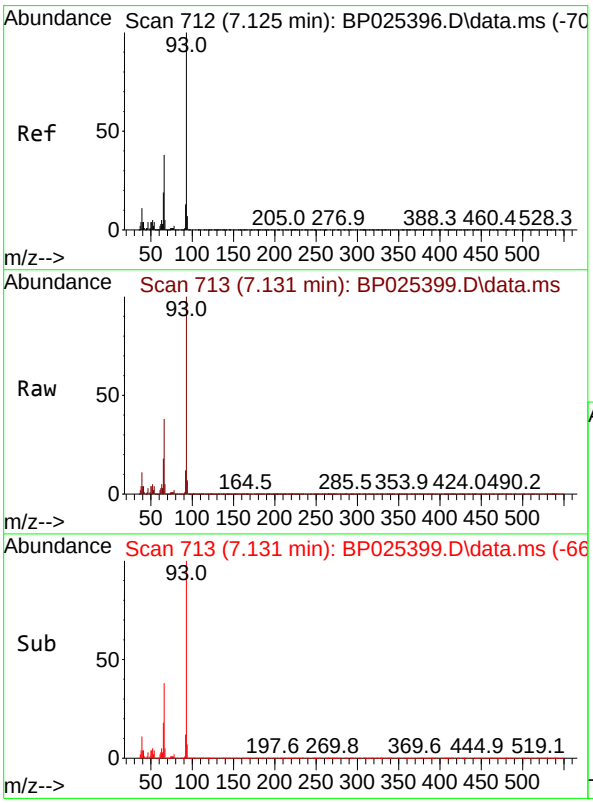
#5
2-Fluorophenol
Concen: 159.254 ng
RT: 5.408 min Scan# 4
Delta R.T. 0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Tgt Ion:112 Resp: 1526166

Ion	Ratio	Lower	Upper
112	100		
64	54.7	43.8	65.8
63	29.3	22.7	34.1

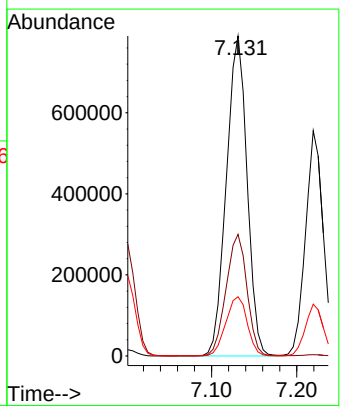


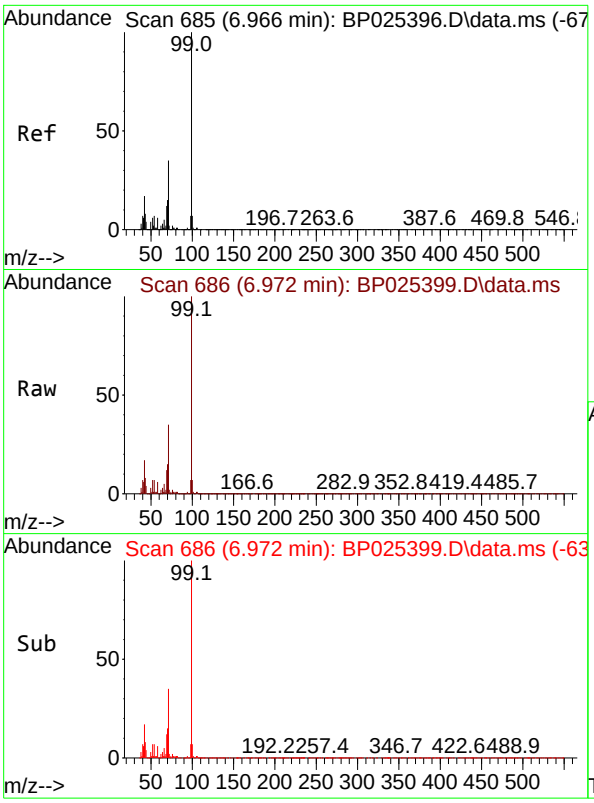


#6
Aniline
Concen: 80.538 ng
RT: 7.131 min Scan# 713
Delta R.T. 0.006 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion: 93 Resp: 1333221

Ion	Ratio	Lower	Upper
93	100		
66	38.0	30.4	45.6
65	18.5	15.3	22.9



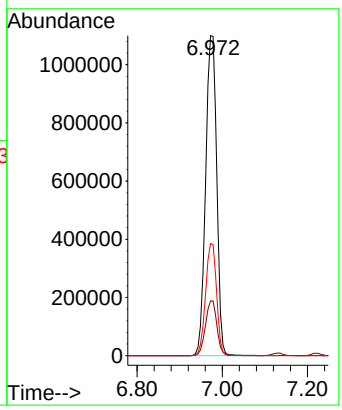


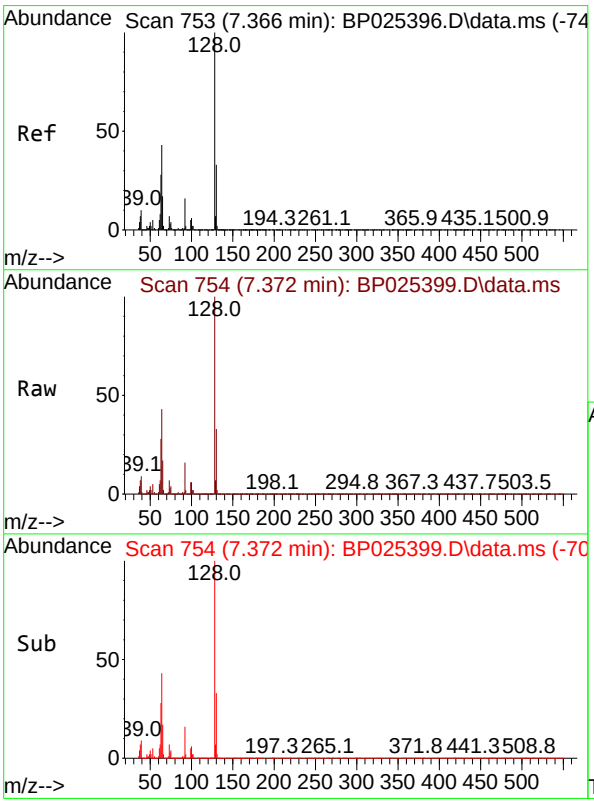
#7
Phenol-d6
Concen: 161.937 ng
RT: 6.972 min Scan# 6
Delta R.T. 0.006 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Tgt Ion: 99 Resp: 1989633

Ion	Ratio	Lower	Upper
99	100		
42	17.1	13.7	20.5
71	35.1	28.2	42.4

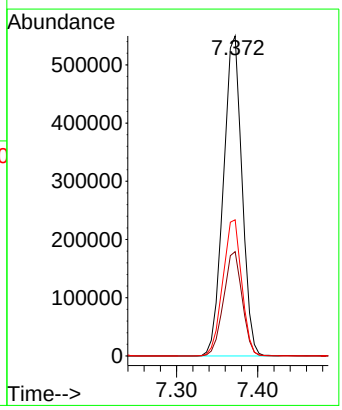


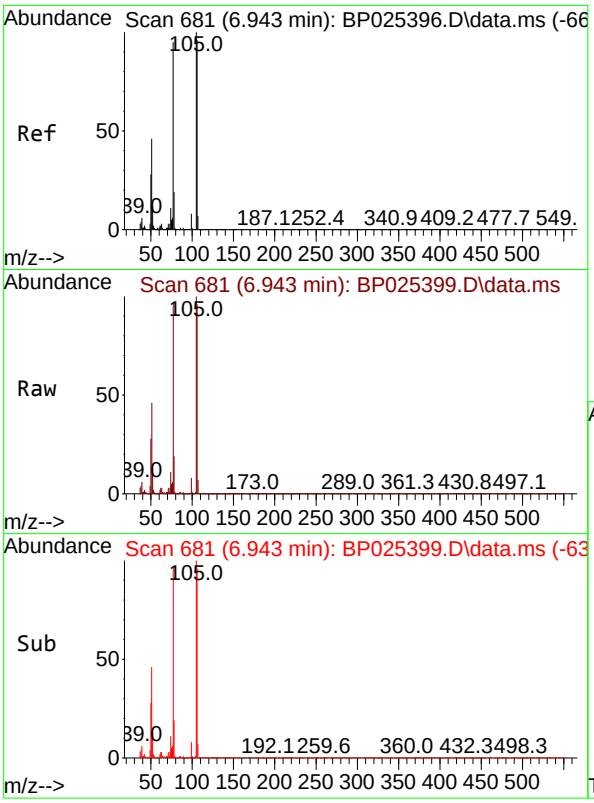


#8
2-Chlorophenol
Concen: 81.104 ng
RT: 7.372 min Scan# 754
Delta R.T. 0.006 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:128 Resp: 877073

Ion	Ratio	Lower	Upper
128	100		
130	32.6	12.6	52.6
64	42.5	23.4	63.4



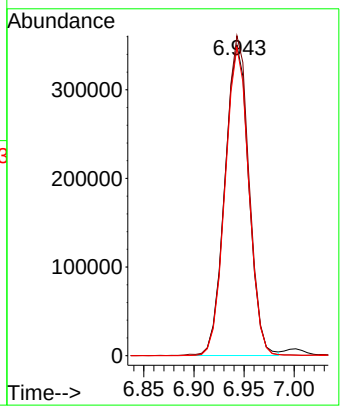


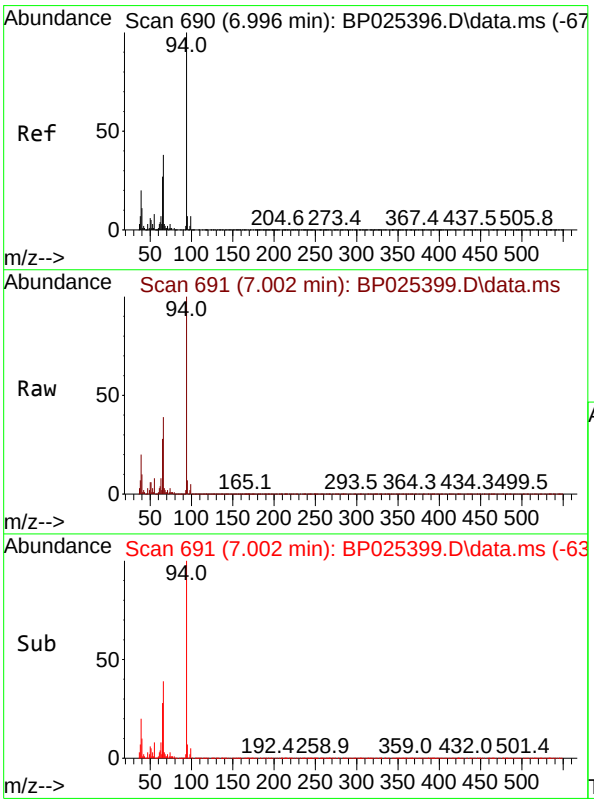
#9
Benzaldehyde
Concen: 67.651 ng
RT: 6.943 min Scan# 6
Delta R.T. 0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Tgt Ion: 77 Resp: 582344

Ion	Ratio	Lower	Upper
77	100		
105	103.0	84.8	124.8
106	99.3	80.5	120.5

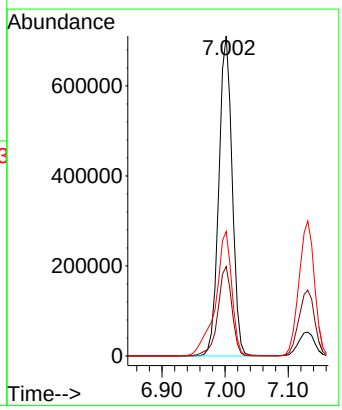


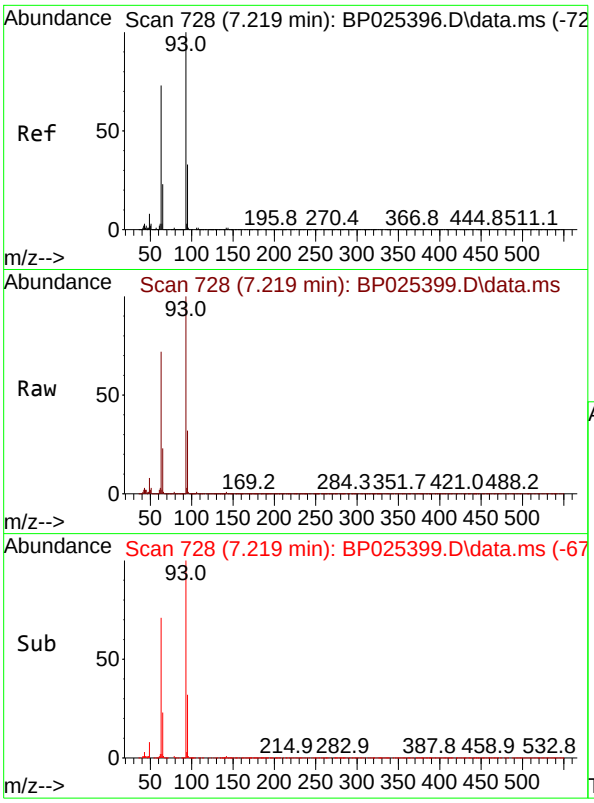


#10
Phenol
Concen: 80.710 ng
RT: 7.002 min Scan# 691
Delta R.T. 0.006 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion: 94 Resp: 1040534

Ion	Ratio	Lower	Upper
94	100		
65	28.0	6.8	46.8
66	38.9	18.2	58.2



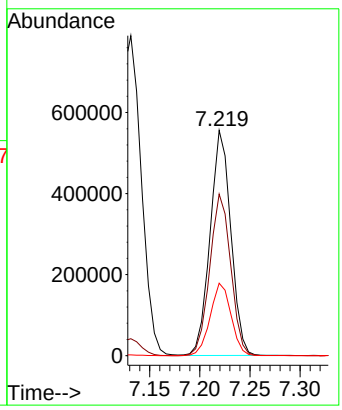


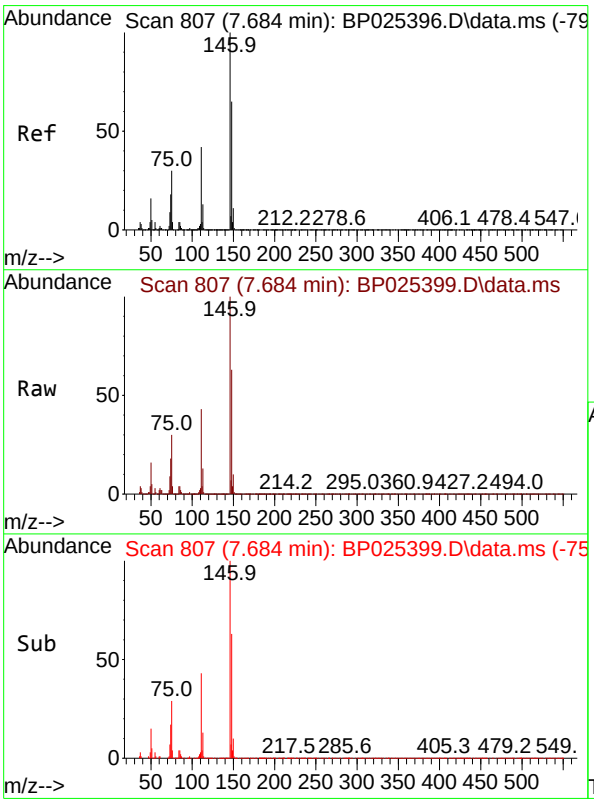
#11
bis(2-Chloroethyl)ether
Concen: 79.481 ng
RT: 7.219 min Scan# 7
Delta R.T. 0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Tgt Ion: 93 Resp: 798672

Ion	Ratio	Lower	Upper
93	100		
63	71.7	52.6	92.6
95	32.2	12.7	52.7

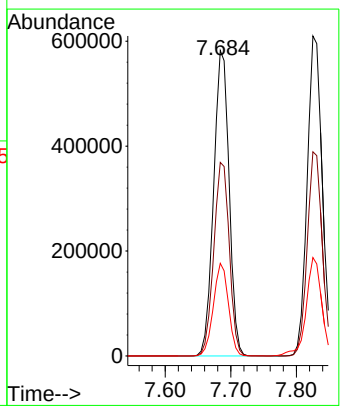


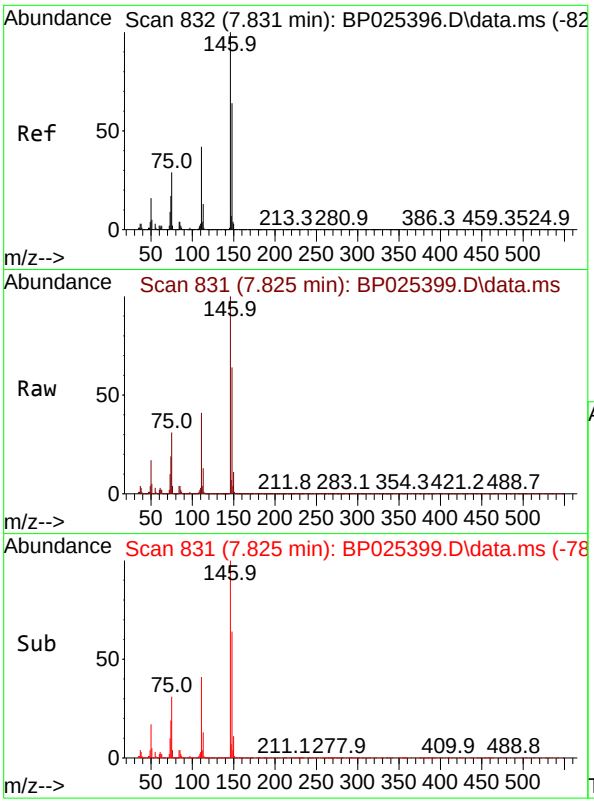


#12
1,3-Dichlorobenzene
Concen: 79.718 ng
RT: 7.684 min Scan# 807
Delta R.T. 0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:146 Resp: 950596

Ion	Ratio	Lower	Upper
146	100		
148	63.4	51.9	77.9
75	30.3	23.7	35.5



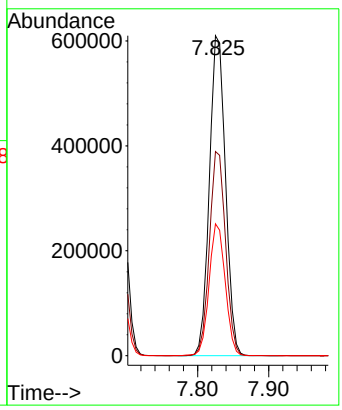


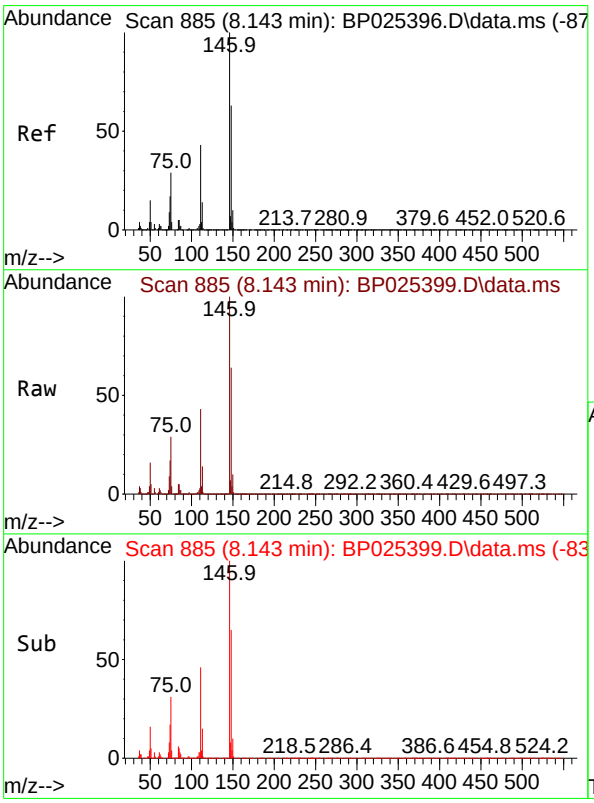
#13
1,4-Dichlorobenzene
Concen: 78.882 ng
RT: 7.825 min Scan# 8
Delta R.T. -0.006 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Tgt Ion:146 Resp: 961421

Ion	Ratio	Lower	Upper
146	100		
148	63.8	51.6	77.4
111	41.2	33.4	50.0

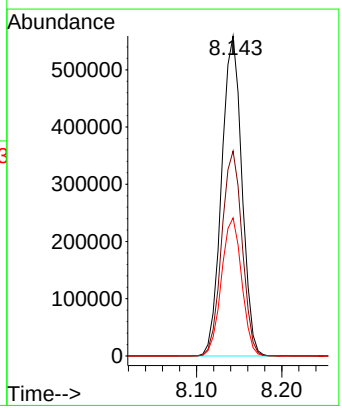


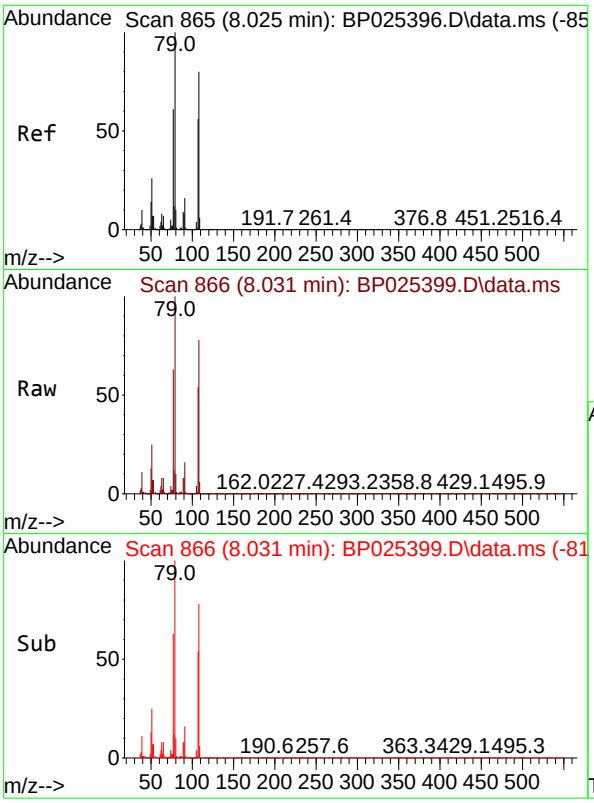


#14
1,2-Dichlorobenzene
Concen: 78.203 ng
RT: 8.143 min Scan# 885
Delta R.T. 0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:146 Resp: 922658

Ion	Ratio	Lower	Upper
146	100		
148	64.1	50.4	75.6
111	43.1	34.5	51.7



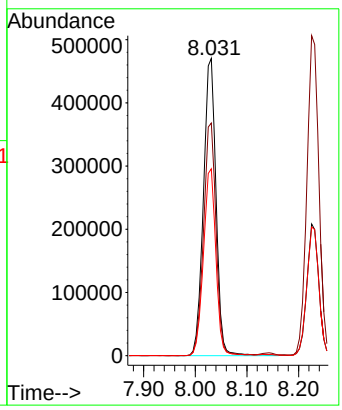


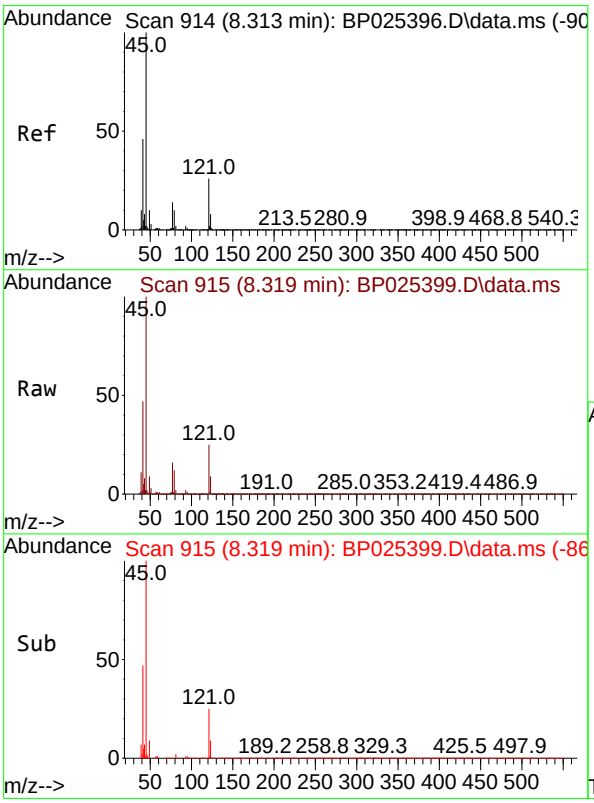
#15
Benzyl Alcohol
Concen: 81.498 ng
RT: 8.031 min Scan# 8
Delta R.T. 0.006 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Tgt Ion: 79 Resp: 795618

Ion	Ratio	Lower	Upper
79	100		
108	78.3	63.8	95.6
77	62.8	49.0	73.4

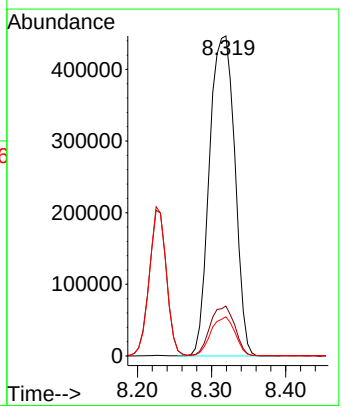


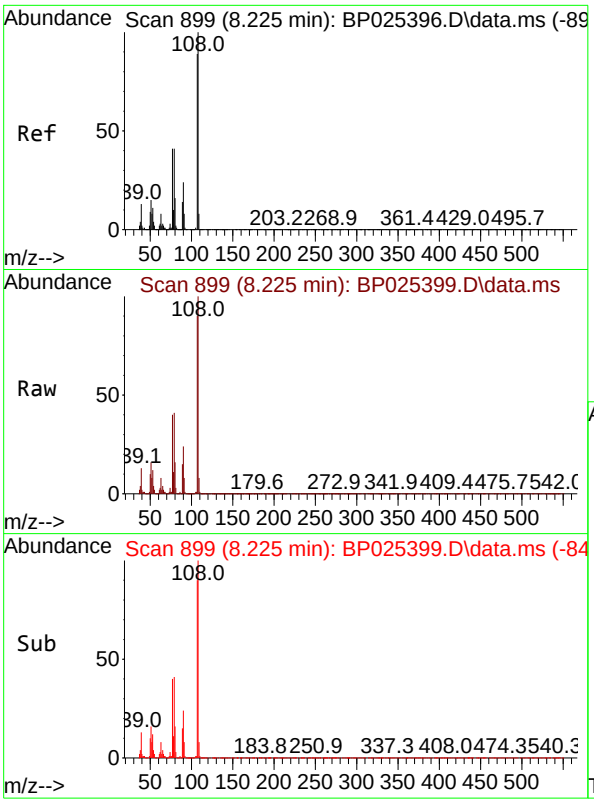


#16
2,2'-oxybis(1-Chloropropane)
Concen: 78.732 ng
RT: 8.319 min Scan# 915
Delta R.T. 0.006 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion: 45 Resp: 1059824

Ion	Ratio	Lower	Upper
45	100		
77	15.6	0.0	35.3
79	12.2	0.0	31.8



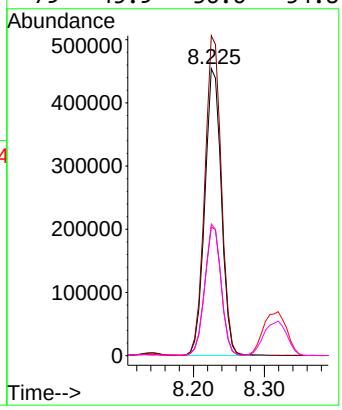


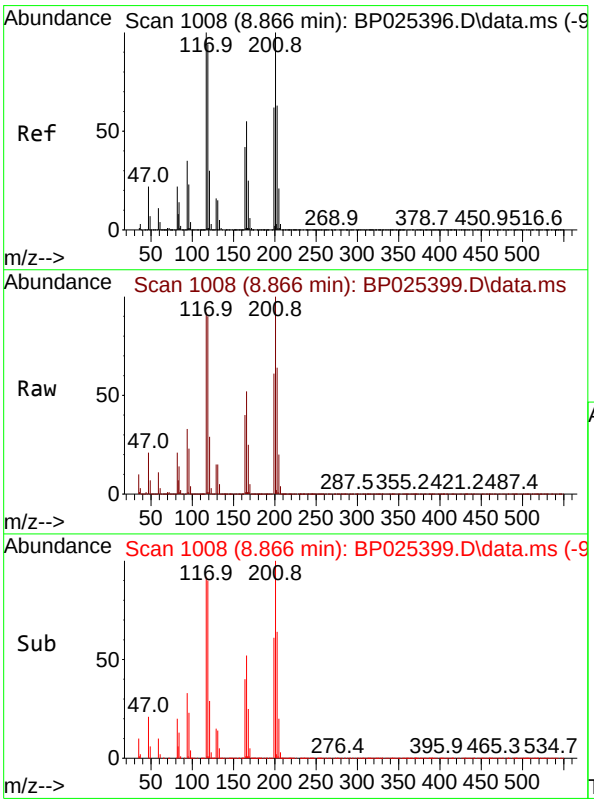
#17
2-Methylphenol
Concen: 82.028 ng
RT: 8.225 min Scan# 8
Delta R.T. 0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Tgt Ion:107 Resp: 734482

Ion	Ratio	Lower	Upper
107	100		
108	111.5	89.4	134.0
77	44.8	36.3	54.5
79	45.9	36.6	54.8

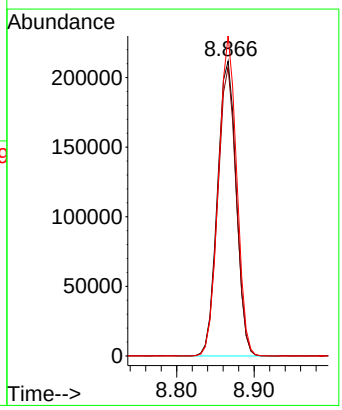


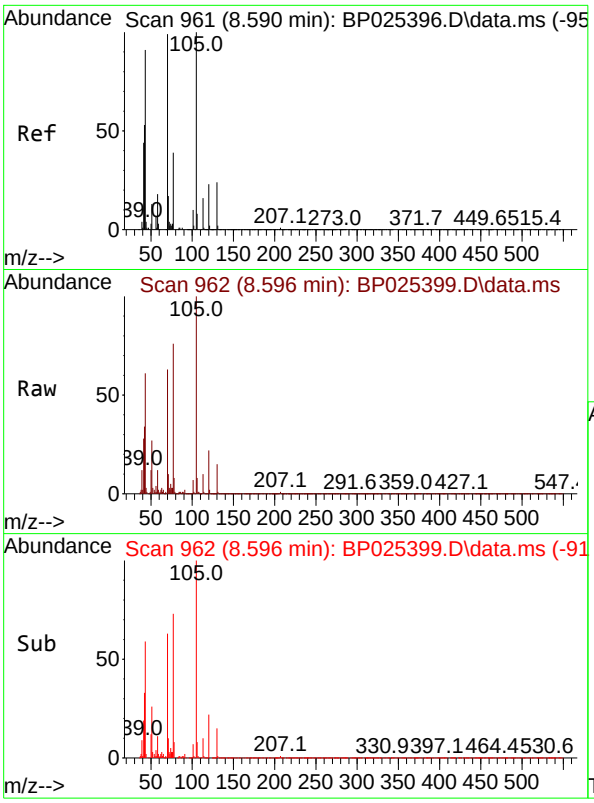


#18
Hexachloroethane
Concen: 79.395 ng
RT: 8.866 min Scan# 1008
Delta R.T. 0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:117 Resp: 355791

Ion	Ratio	Lower	Upper
117	100		
119	97.9	75.1	112.7
201	108.5	80.1	120.1



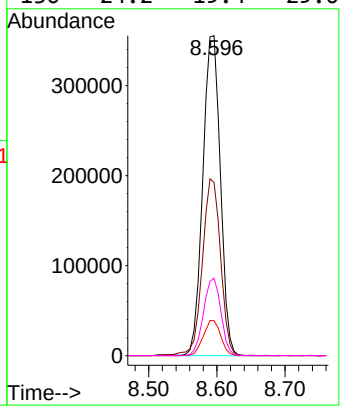


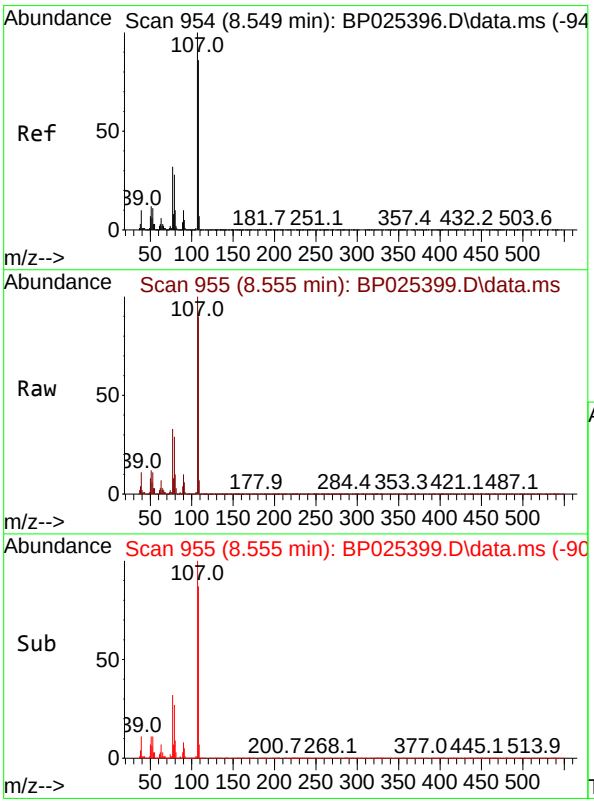
#19
n-Nitroso-di-n-propylamine
Concen: 78.102 ng
RT: 8.596 min Scan# 9
Delta R.T. 0.006 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Tgt Ion: 70 Resp: 636387

Ion	Ratio	Lower	Upper
70	100		
42	54.2	43.8	65.6
101	11.0	8.5	12.7
130	24.2	19.4	29.0

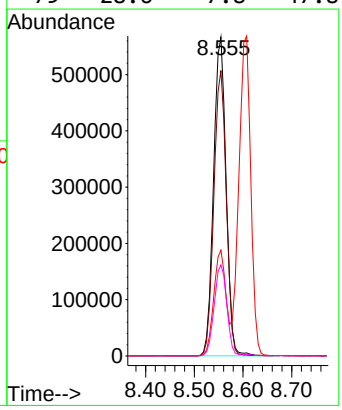


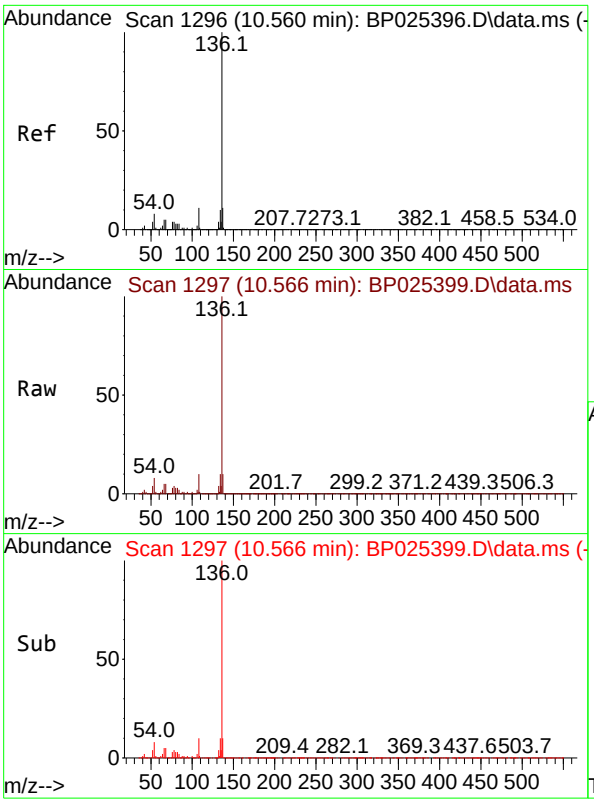


#20
3+4-Methylphenols
Concen: 81.023 ng
RT: 8.555 min Scan# 955
Delta R.T. 0.006 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:107 Resp: 1005632

Ion	Ratio	Lower	Upper
107	100		
108	89.6	66.3	106.3
77	33.2	12.3	52.3
79	28.6	7.8	47.8



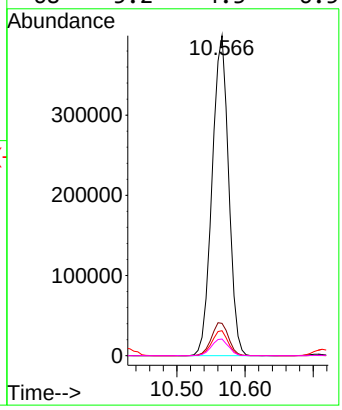


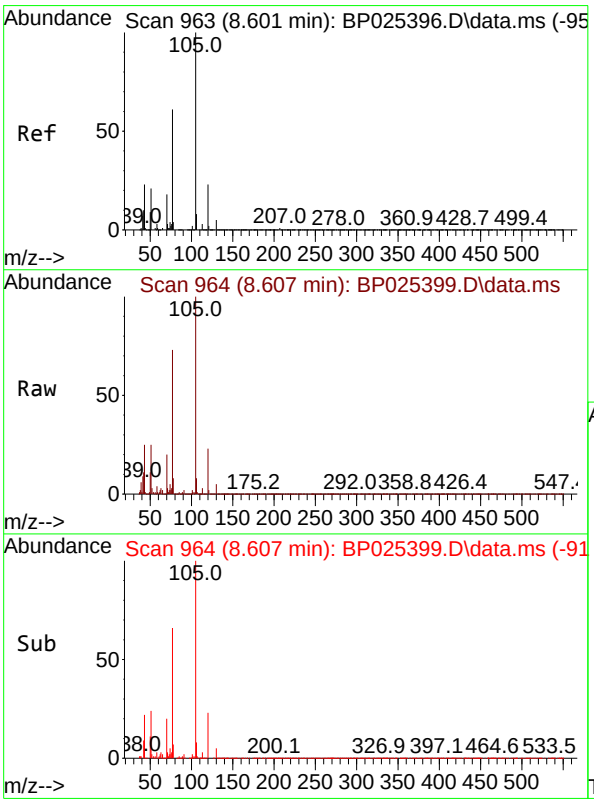
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.566 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Tgt Ion:136 Resp: 673018

Ion	Ratio	Lower	Upper
136	100		
137	10.1	9.2	13.8
54	7.8	6.0	9.0
68	5.2	4.3	6.5

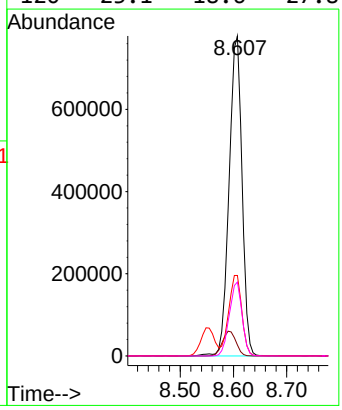


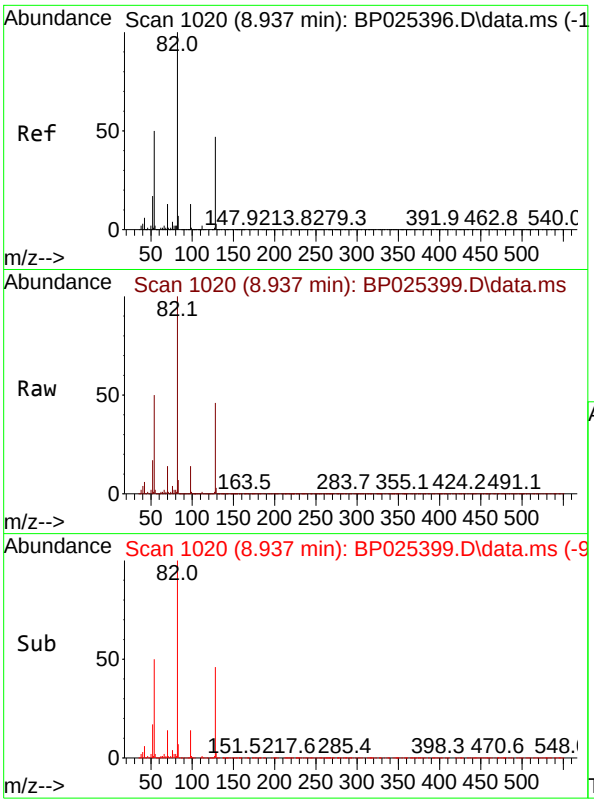


#22
Acetophenone
Concen: 77.886 ng
RT: 8.607 min Scan# 964
Delta R.T. 0.006 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:105 Resp: 1314548

Ion	Ratio	Lower	Upper
105	100		
71	3.4	2.6	4.0
51	25.1	20.6	30.8
120	23.1	18.6	27.8



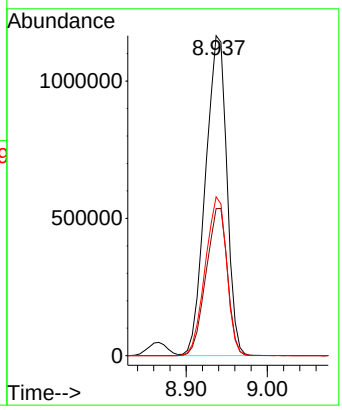


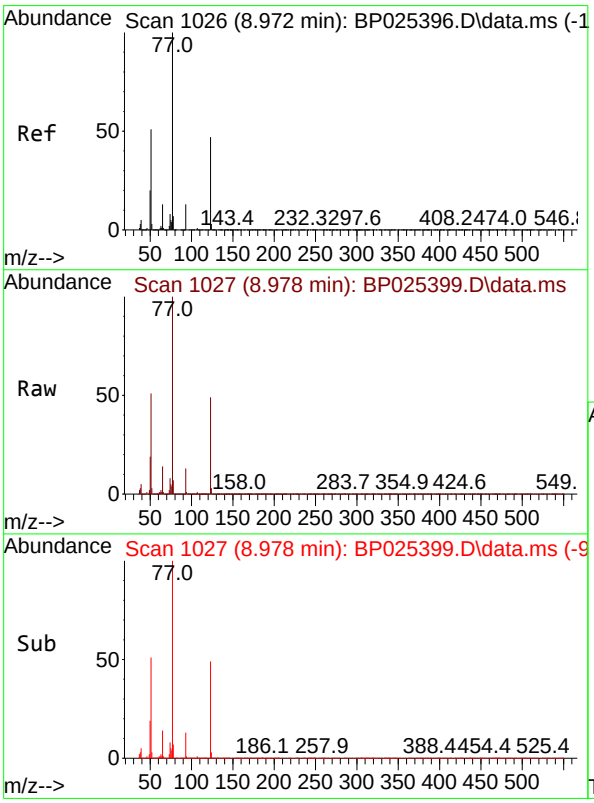
#23
Nitrobenzene-d5
Concen: 159.609 ng
RT: 8.937 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Tgt Ion: 82 Resp: 2123522

Ion	Ratio	Lower	Upper
82	100		
128	46.0	37.7	56.5
54	49.7	39.8	59.6

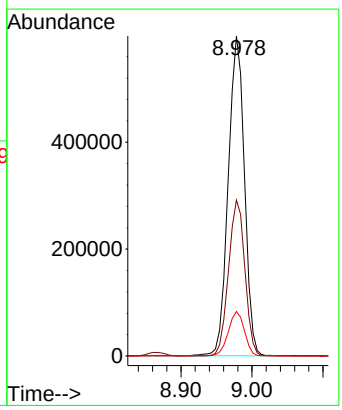


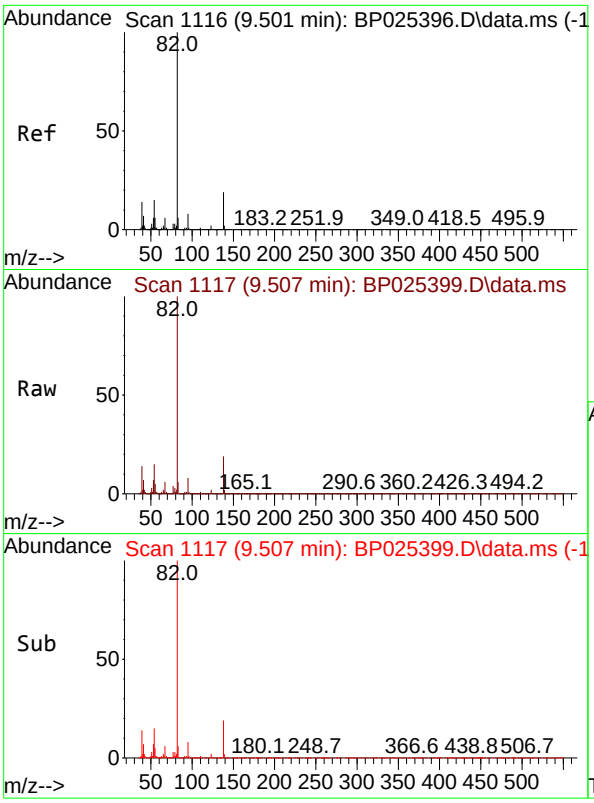


#24
Nitrobenzene
Concen: 79.686 ng
RT: 8.978 min Scan# 1027
Delta R.T. 0.006 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion: 77 Resp: 947511

Ion	Ratio	Lower	Upper
77	100		
123	48.7	38.6	58.0
65	13.9	10.6	15.8



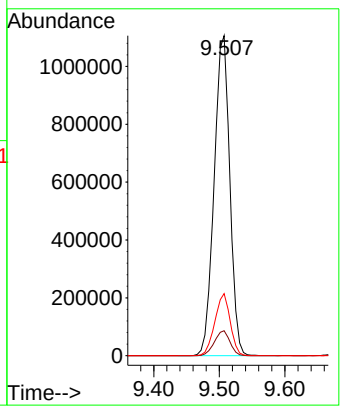


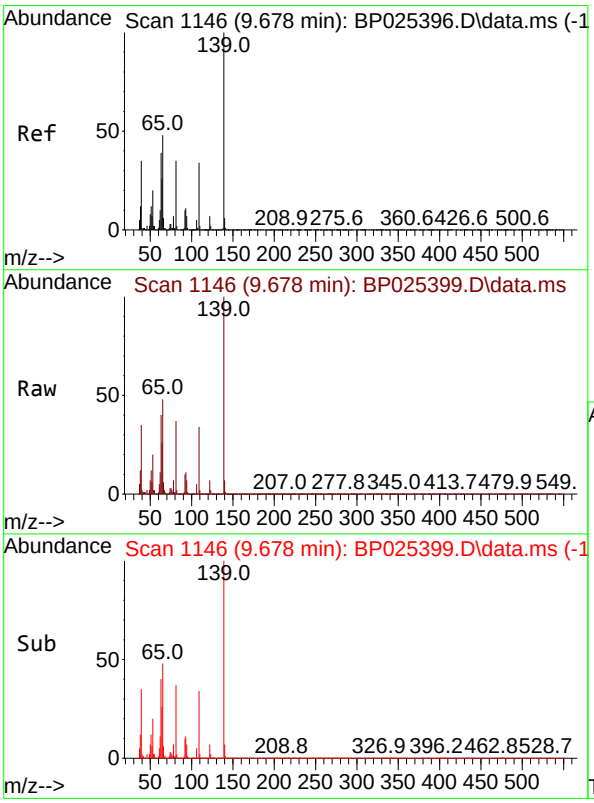
#25
Isophorone
Concen: 77.708 ng
RT: 9.507 min Scan# 11
Delta R.T. 0.006 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Tgt Ion: 82 Resp: 1829675

Ion	Ratio	Lower	Upper
82	100		
95	7.8	6.4	9.6
138	19.4	15.4	23.0

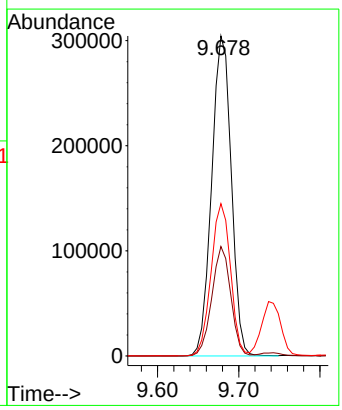


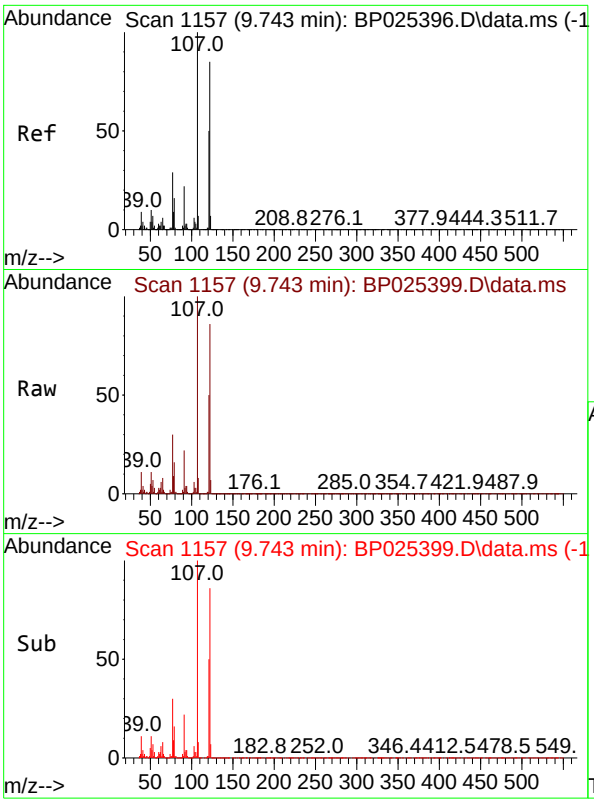


#26
2-Nitrophenol
Concen: 83.872 ng
RT: 9.678 min Scan# 1146
Delta R.T. 0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:139 Resp: 511806

Ion	Ratio	Lower	Upper
139	100		
109	34.2	26.9	40.3
65	47.6	38.3	57.5



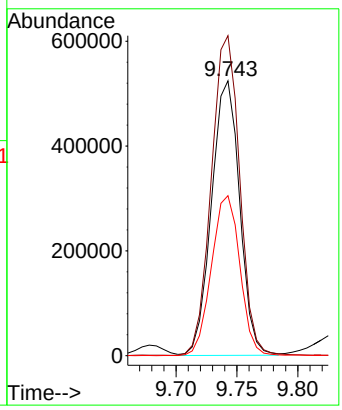


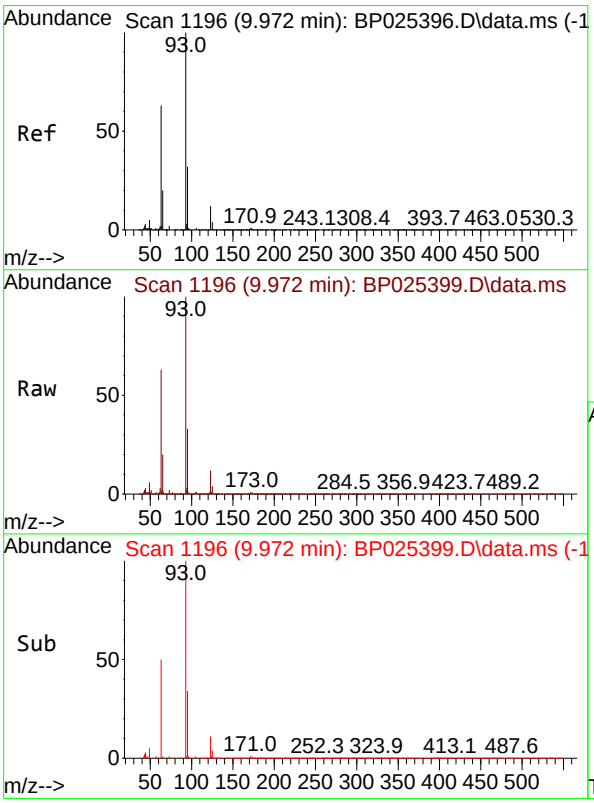
#27
2,4-Dimethylphenol
Concen: 80.280 ng
RT: 9.743 min Scan# 11
Delta R.T. 0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Tgt Ion:122 Resp: 842467

Ion	Ratio	Lower	Upper
122	100		
107	116.4	93.7	140.5
121	58.2	46.6	69.8

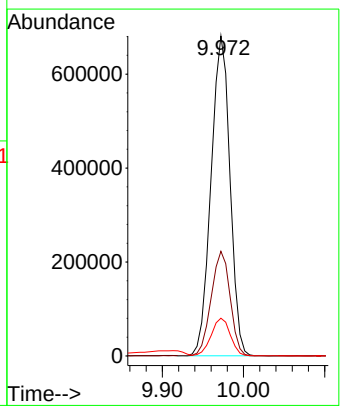


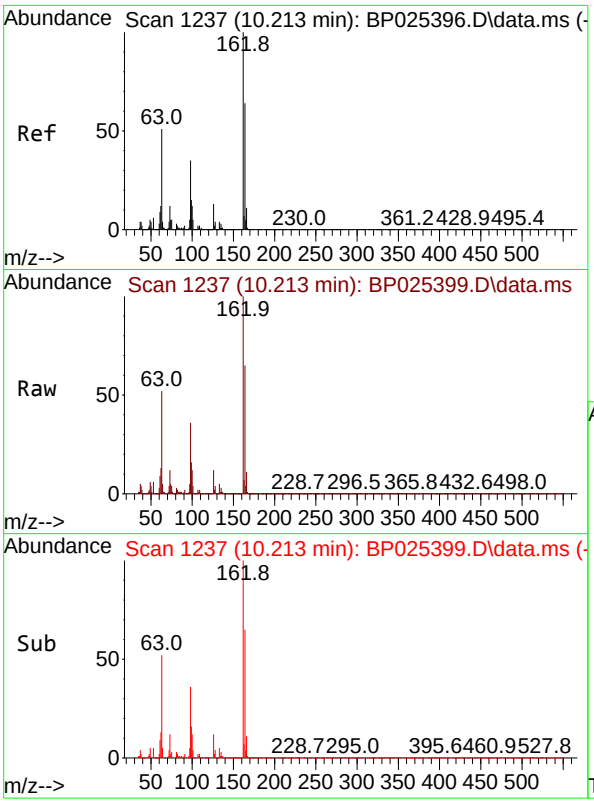


#28
bis(2-Chloroethoxy)methane
Concen: 77.542 ng
RT: 9.972 min Scan# 1196
Delta R.T. 0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion: 93 Resp: 1103640

Ion	Ratio	Lower	Upper
93	100		
95	32.7	25.4	38.0
123	11.8	9.4	14.0



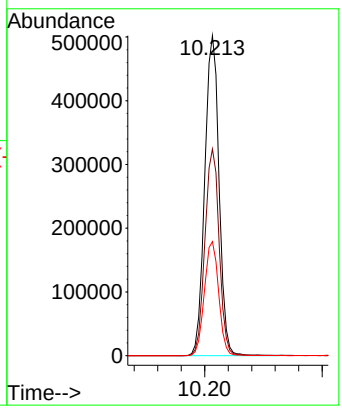


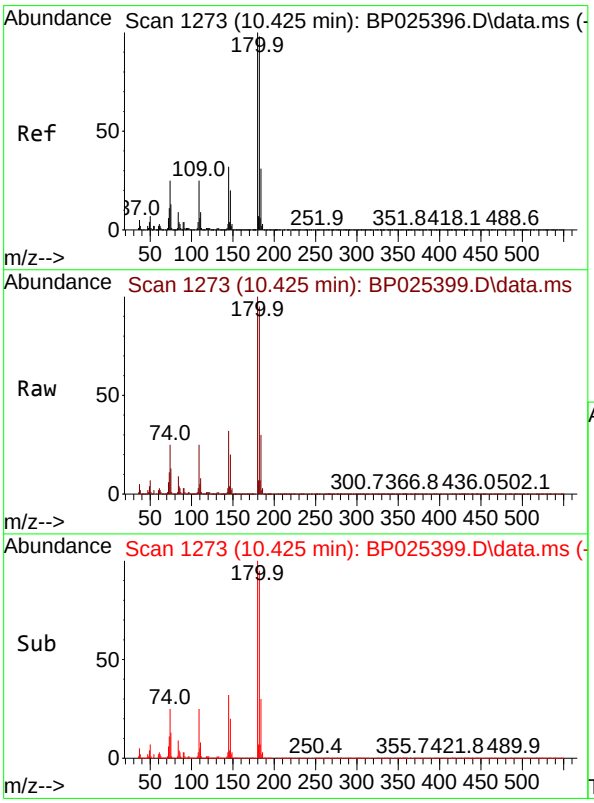
#29
2,4-Dichlorophenol
Concen: 81.037 ng
RT: 10.213 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Tgt Ion:162 Resp: 844787

Ion	Ratio	Lower	Upper
162	100		
164	64.6	44.4	84.4
98	35.6	14.9	54.9

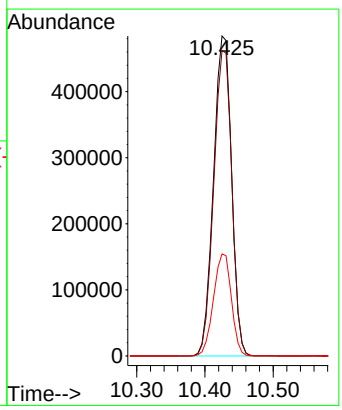


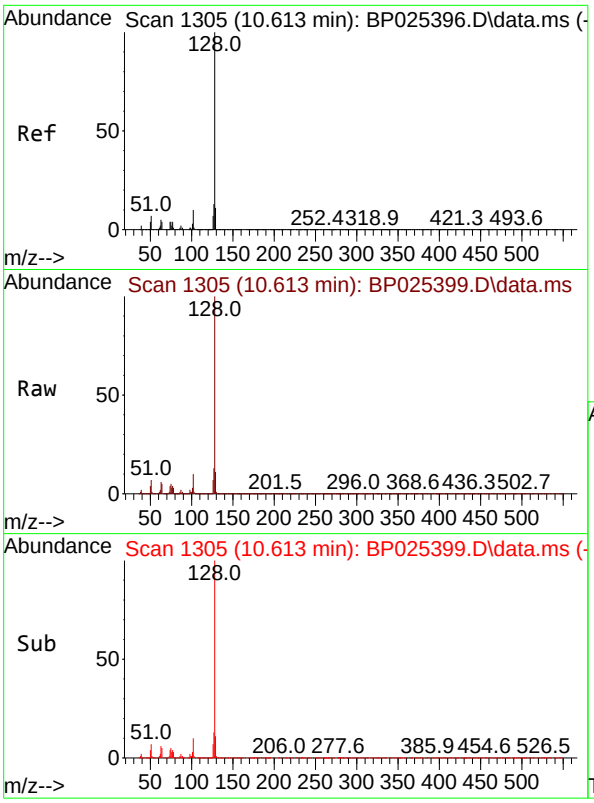


#30
1,2,4-Trichlorobenzene
Concen: 78.123 ng
RT: 10.425 min Scan# 1273
Delta R.T. 0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:180 Resp: 892771

Ion	Ratio	Lower	Upper
180	100		
182	95.4	78.0	117.0
145	31.9	25.9	38.9



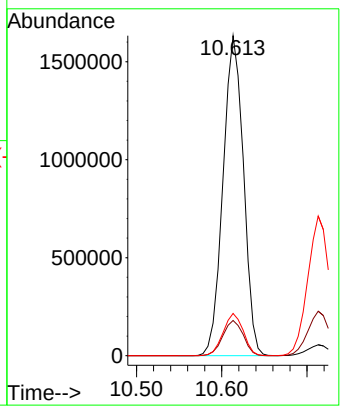


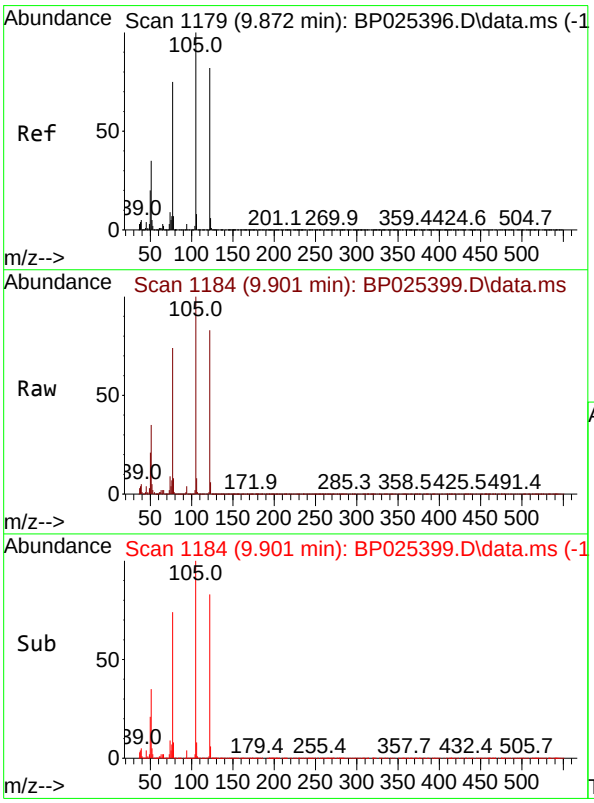
#31
Naphthalene
Concen: 77.835 ng
RT: 10.613 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Tgt Ion:128 Resp: 2722703

Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.6	13.0
127	13.2	10.7	16.1

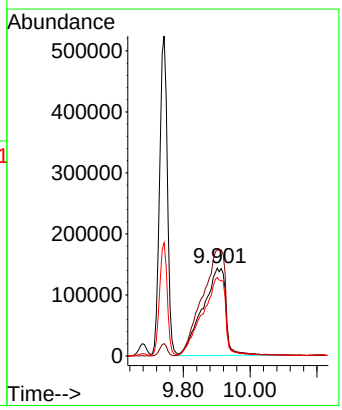


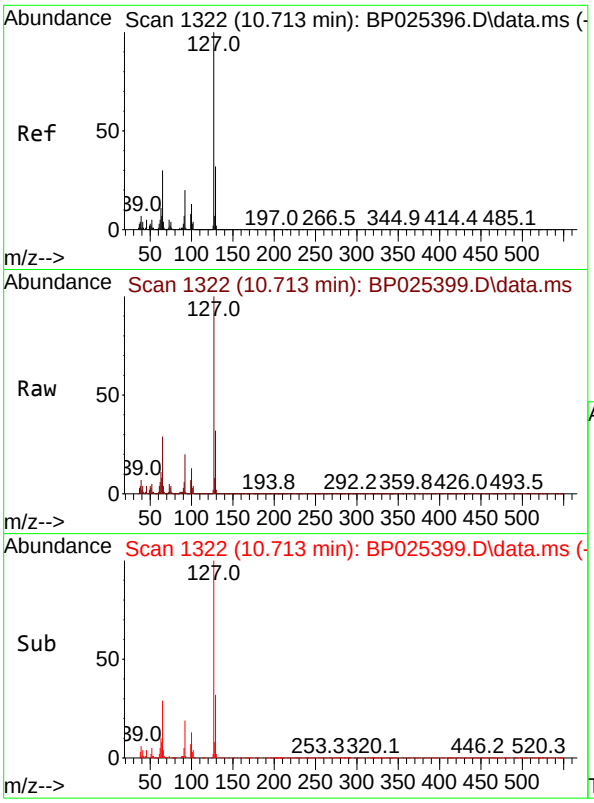


#32
Benzoic acid
Concen: 88.861 ng
RT: 9.901 min Scan# 1184
Delta R.T. 0.029 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:122 Resp: 686791

Ion	Ratio	Lower	Upper
122	100		
105	121.0	100.6	140.6
77	89.3	71.5	111.5



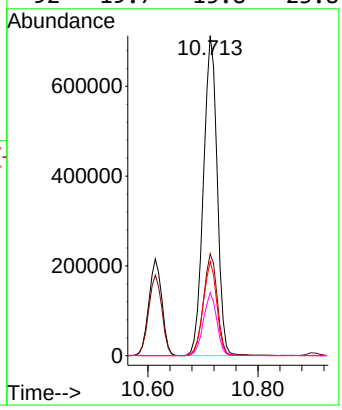


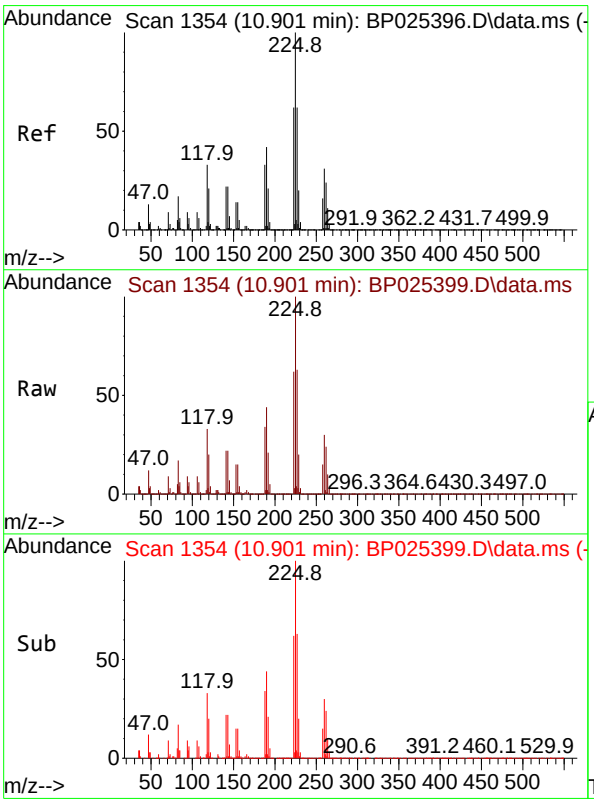
#33
4-Chloroaniline
Concen: 79.761 ng
RT: 10.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Tgt Ion:127 Resp: 1232431

Ion	Ratio	Lower	Upper
127	100		
129	31.9	25.4	38.2
65	29.4	23.8	35.6
92	19.7	15.8	23.8

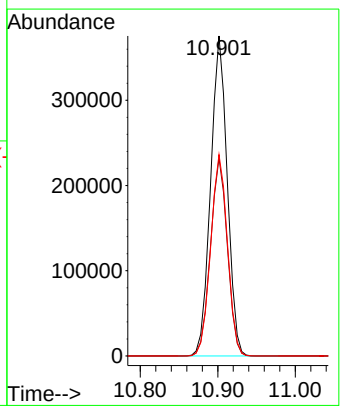


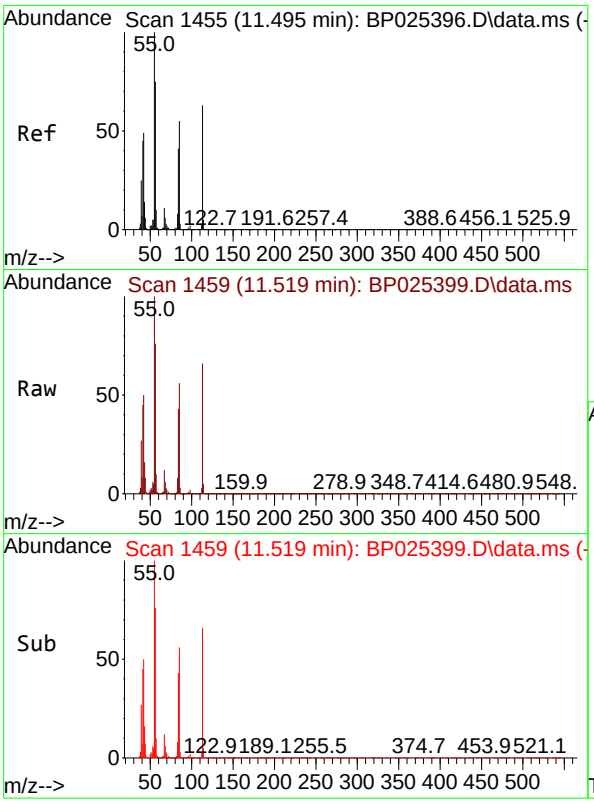


#34
Hexachlorobutadiene
Concen: 78.393 ng
RT: 10.901 min Scan# 1354
Delta R.T. 0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:225 Resp: 557922

Ion	Ratio	Lower	Upper
225	100		
223	61.8	50.0	75.0
227	62.9	49.7	74.5



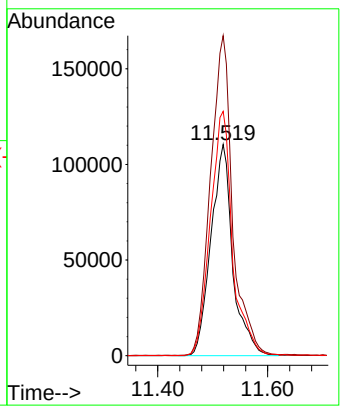


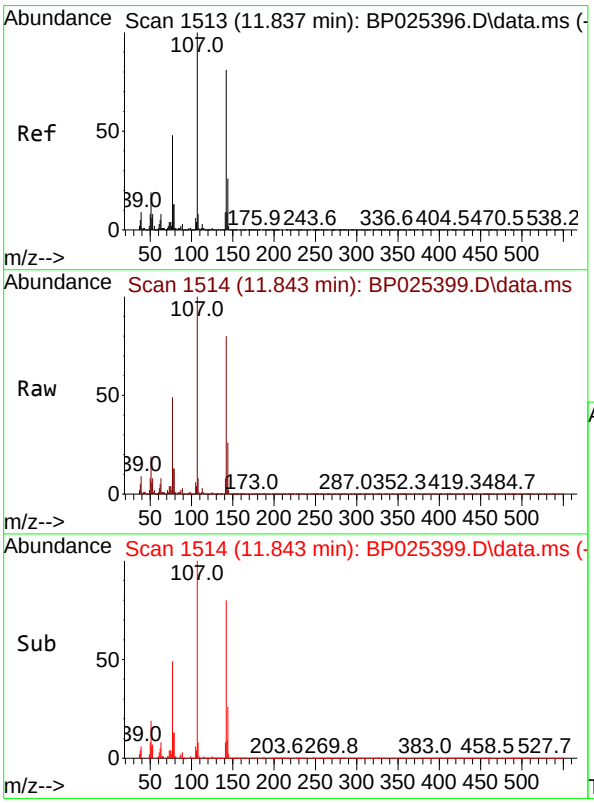
#35
Caprolactam
Concen: 79.233 ng
RT: 11.519 min Scan# 14
Delta R.T. 0.024 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Tgt Ion:113 Resp: 302874

Ion	Ratio	Lower	Upper
113	100		
55	151.5	140.0	180.0
56	115.6	100.0	140.0

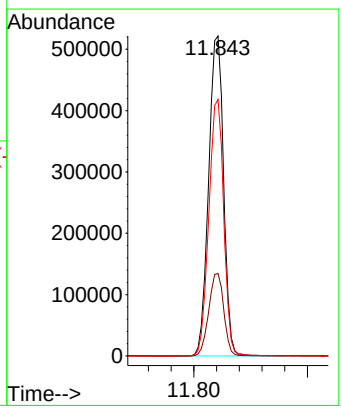


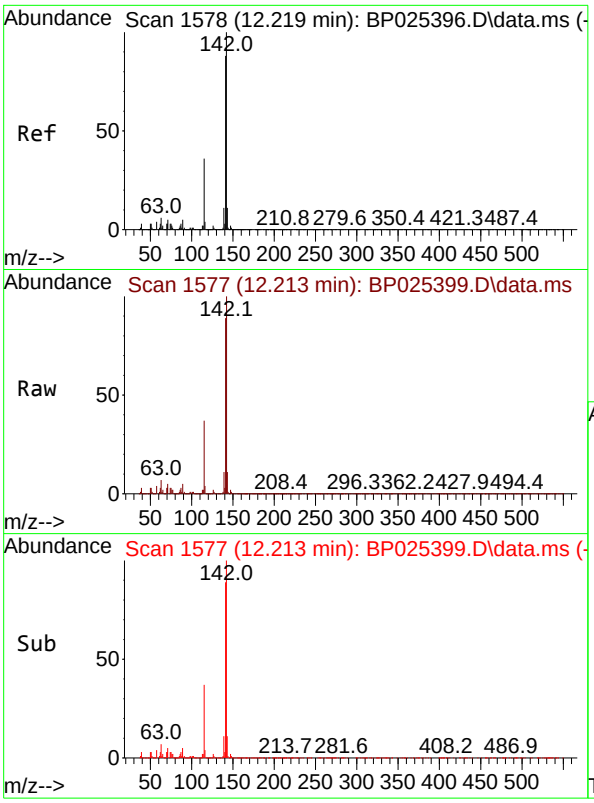


#36
4-Chloro-3-methylphenol
Concen: 79.399 ng
RT: 11.843 min Scan# 1514
Delta R.T. 0.006 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:107 Resp: 949779

Ion	Ratio	Lower	Upper
107	100		
144	25.7	21.0	31.4
142	80.2	64.6	97.0



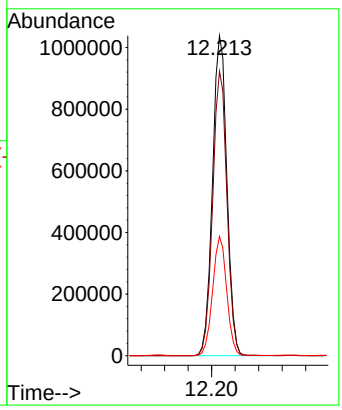


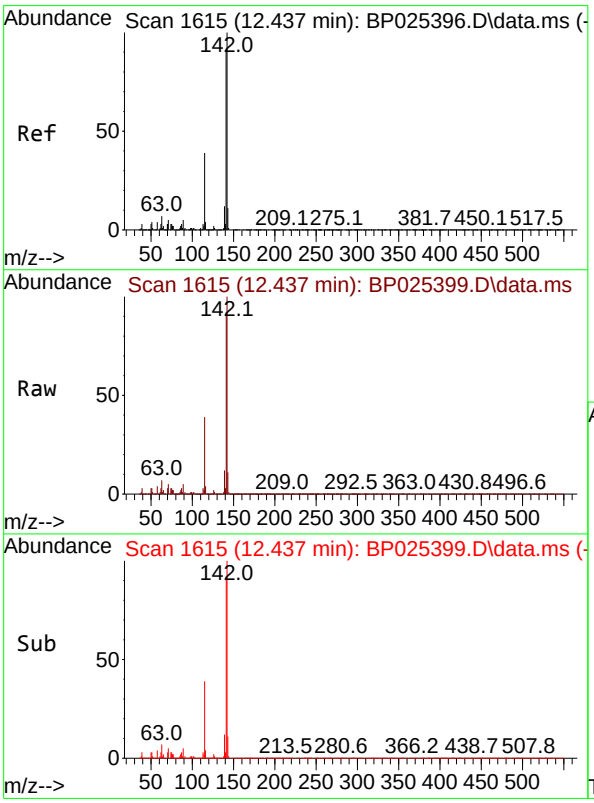
#37
2-Methylnaphthalene
Concen: 77.372 ng
RT: 12.213 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Tgt Ion:142 Resp: 1761325

Ion	Ratio	Lower	Upper
142	100		
141	88.9	70.3	105.5
115	37.2	28.9	43.3

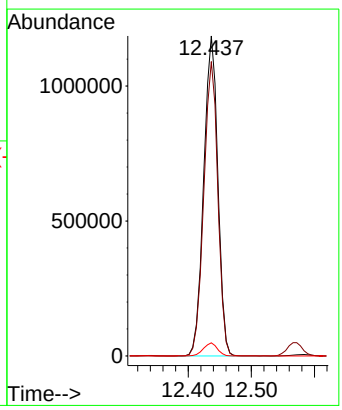


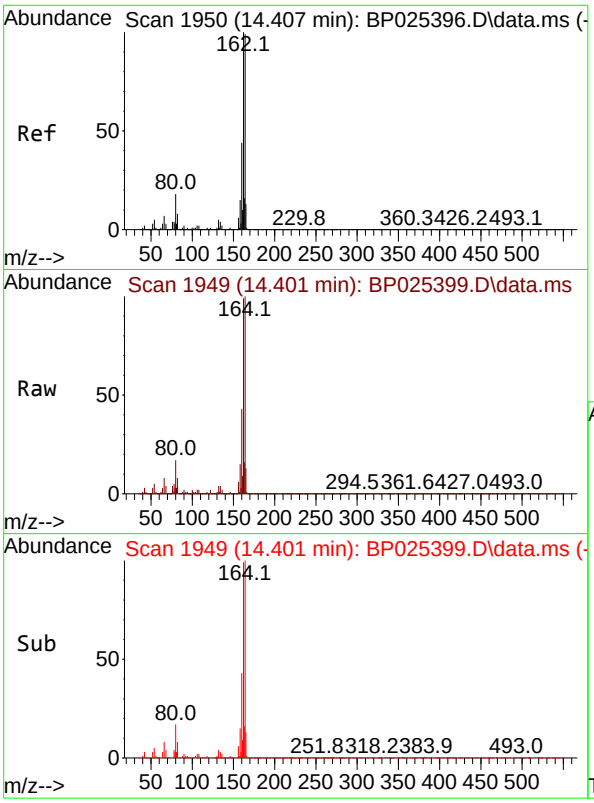


#38
1-Methylnaphthalene
Concen: 76.186 ng
RT: 12.437 min Scan# 1615
Delta R.T. 0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:142 Resp: 1844376

Ion	Ratio	Lower	Upper
142	100		
141	92.0	73.1	109.7
116	4.1	3.2	4.8



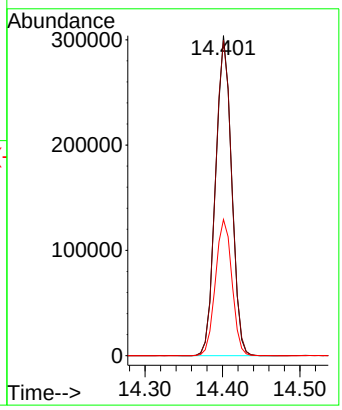


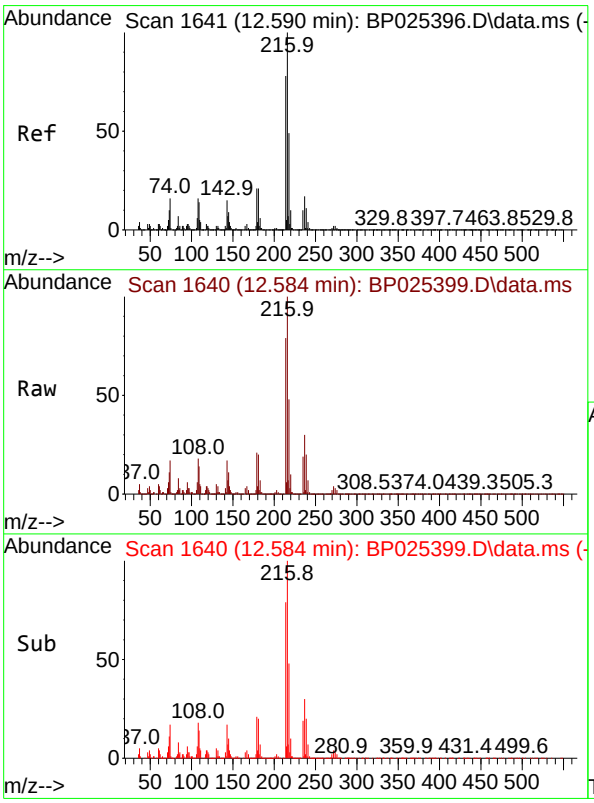
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.401 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Tgt Ion:164 Resp: 436046

Ion	Ratio	Lower	Upper
164	100		
162	98.6	81.0	121.6
160	42.6	35.4	53.2

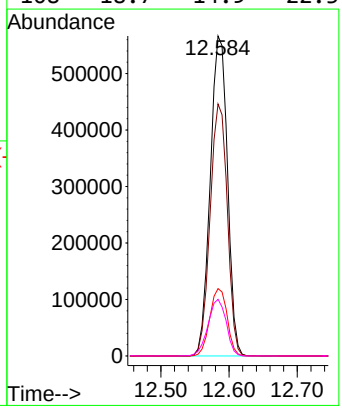


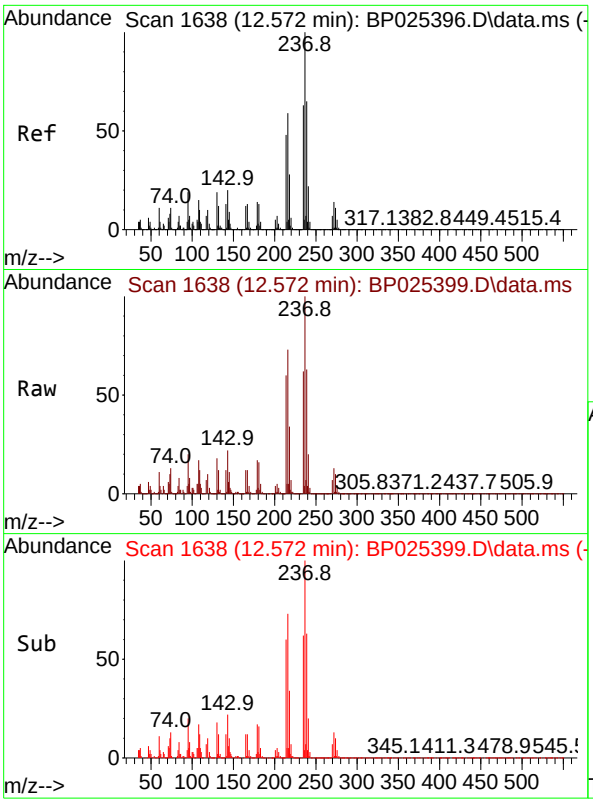


#40
1,2,4,5-Tetrachlorobenzene
Concen: 79.014 ng
RT: 12.584 min Scan# 1640
Delta R.T. -0.006 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:216 Resp: 995064

Ion	Ratio	Lower	Upper
216	100		
214	78.8	63.0	94.4
179	21.2	17.1	25.7
108	18.7	14.9	22.3



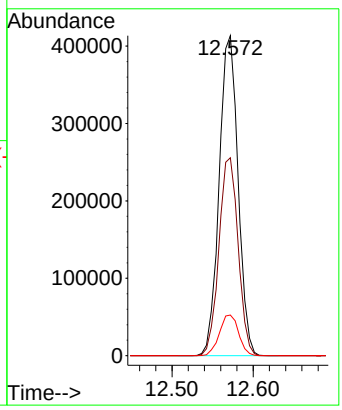


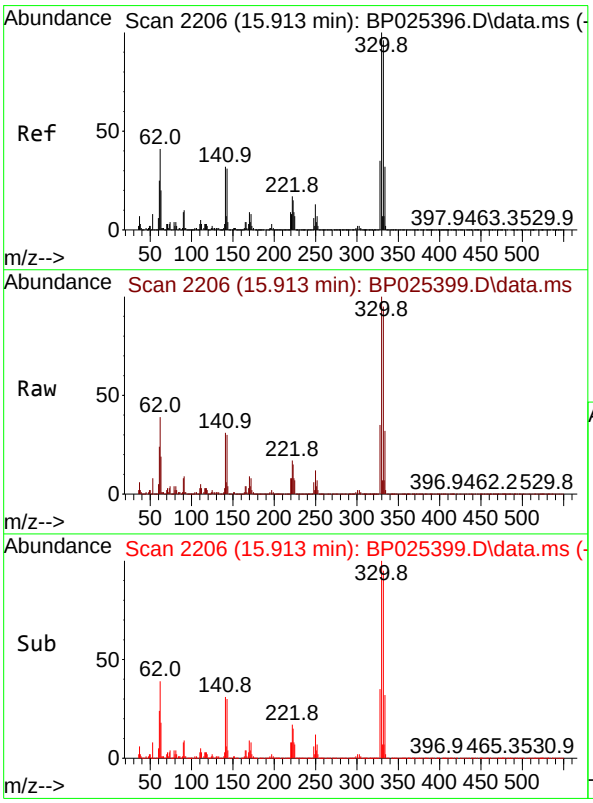
#41
Hexachlorocyclopentadiene
Concen: 87.916 ng
RT: 12.572 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Tgt Ion:237 Resp: 668771

Ion	Ratio	Lower	Upper
237	100		
235	61.9	42.7	82.7
272	12.7	0.0	34.0

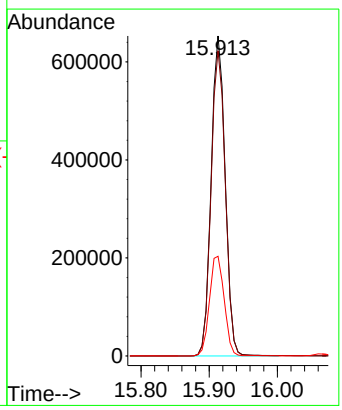


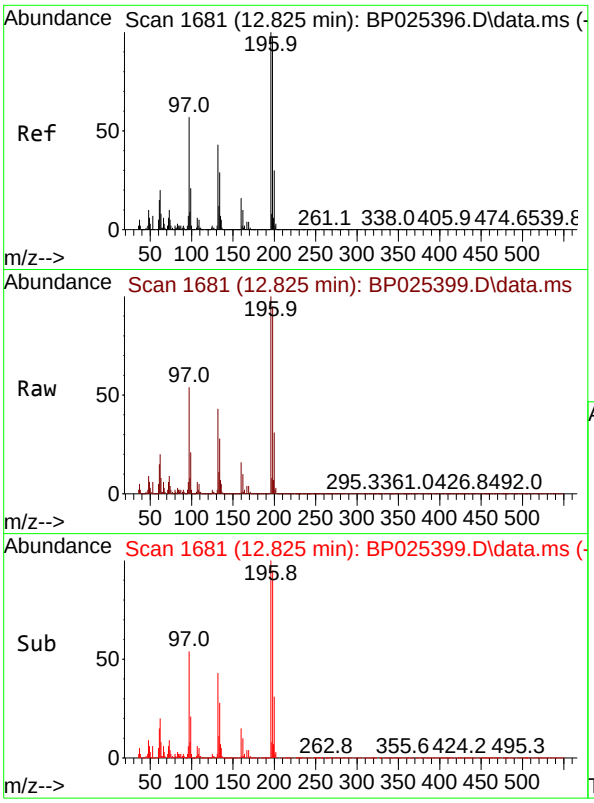


#42
2,4,6-Tribromophenol
Concen: 159.559 ng
RT: 15.913 min Scan# 2206
Delta R.T. 0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:330 Resp: 936489

Ion	Ratio	Lower	Upper
330	100		
332	96.5	77.3	115.9
141	32.8	26.6	39.8



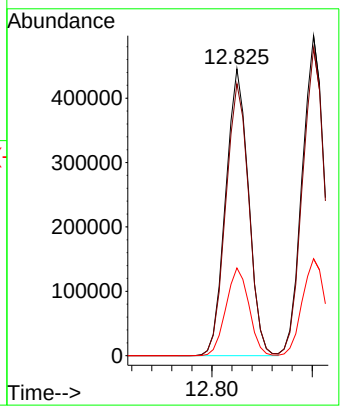


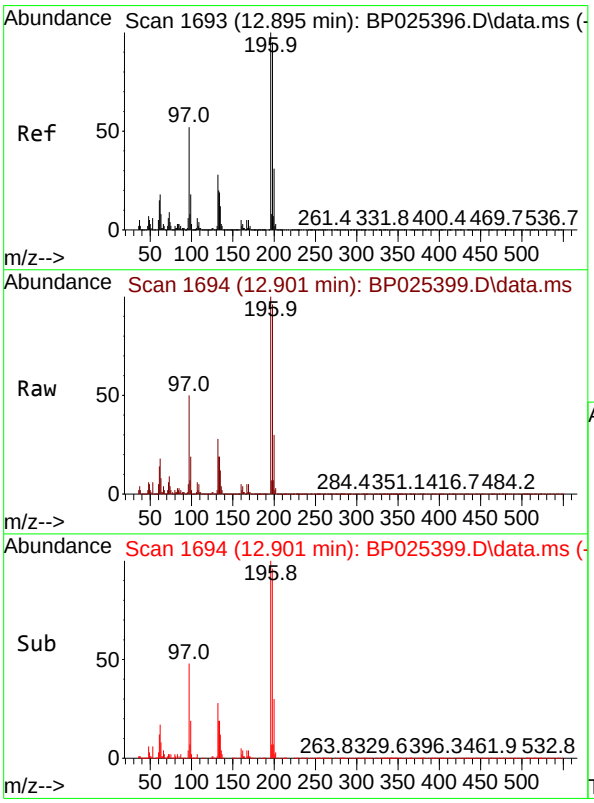
#43
2,4,6-Trichlorophenol
Concen: 83.096 ng
RT: 12.825 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Tgt Ion:196 Resp: 706484

Ion	Ratio	Lower	Upper
196	100		
198	94.8	77.2	115.8
200	30.5	23.9	35.9

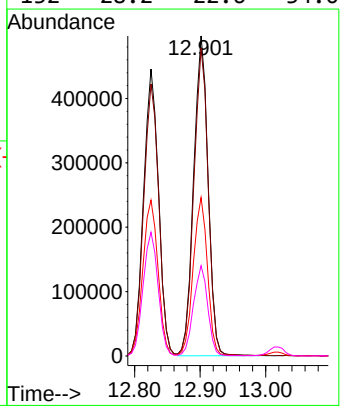


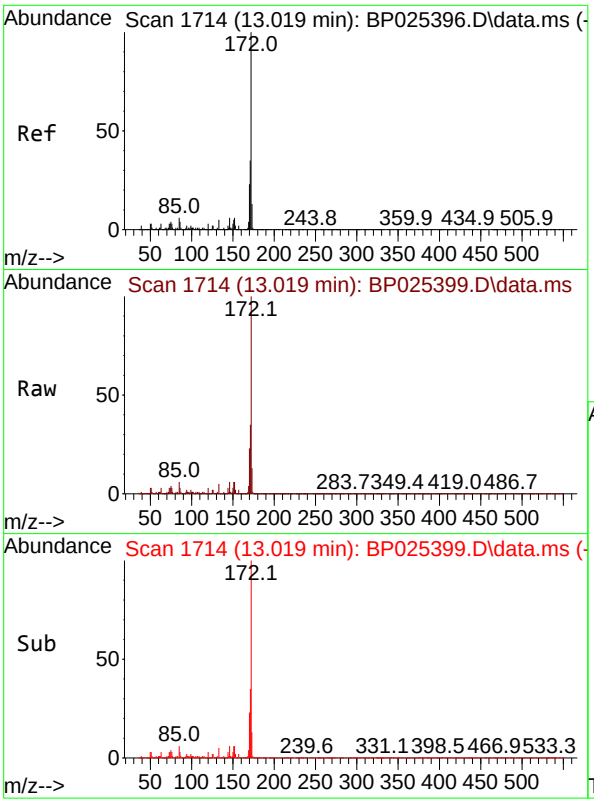


#44
2,4,5-Trichlorophenol
Concen: 81.870 ng
RT: 12.901 min Scan# 1694
Delta R.T. 0.006 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:196 Resp: 762861

Ion	Ratio	Lower	Upper
196	100		
198	96.1	76.2	114.2
97	49.5	41.2	61.8
132	28.2	22.6	34.0



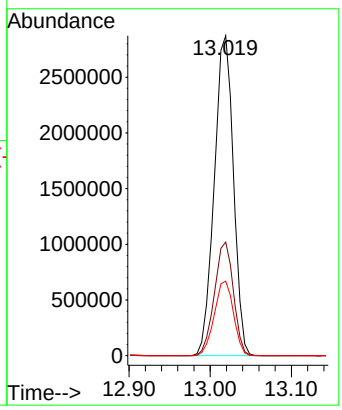


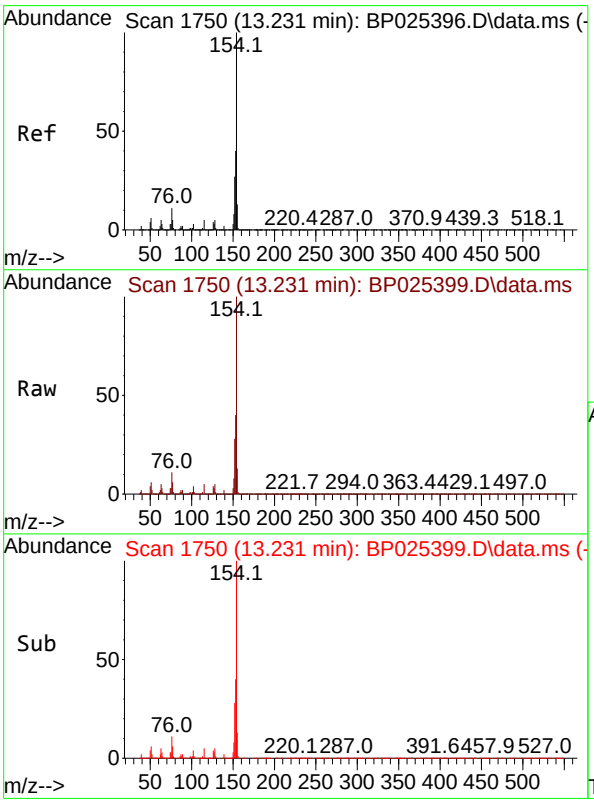
#45
2-Fluorobiphenyl
Concen: 147.705 ng
RT: 13.019 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Tgt Ion:172 Resp: 4712591

Ion	Ratio	Lower	Upper
172	100		
171	35.5	28.1	42.1
170	23.3	18.6	28.0

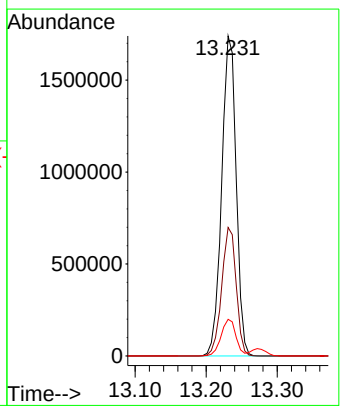


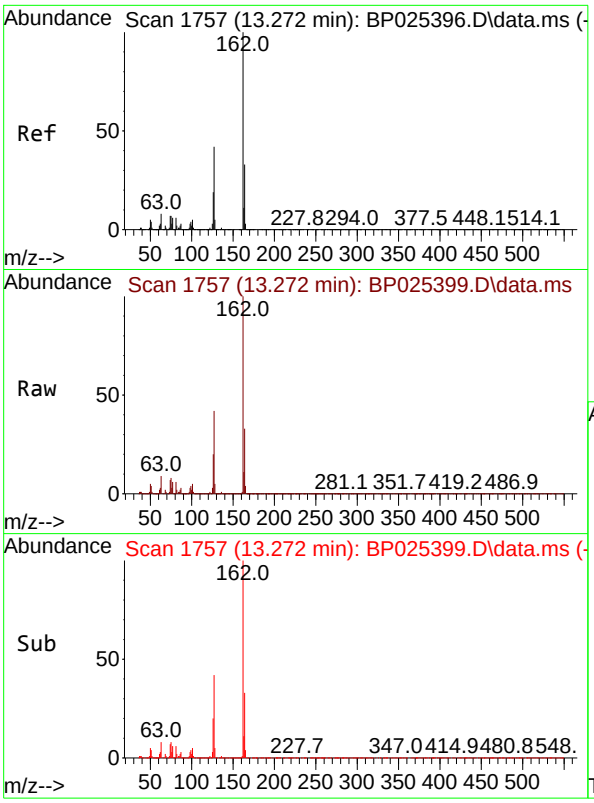


#46
1,1'-Biphenyl
Concen: 77.476 ng
RT: 13.231 min Scan# 1750
Delta R.T. 0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:154 Resp: 2453536

Ion	Ratio	Lower	Upper
154	100		
153	40.2	19.5	59.5
76	11.5	0.0	31.1



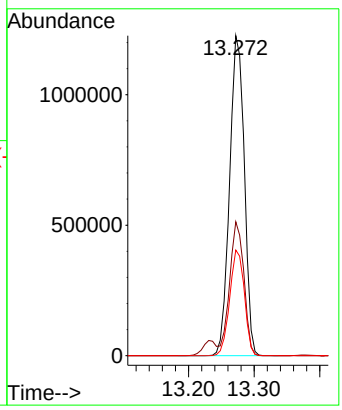


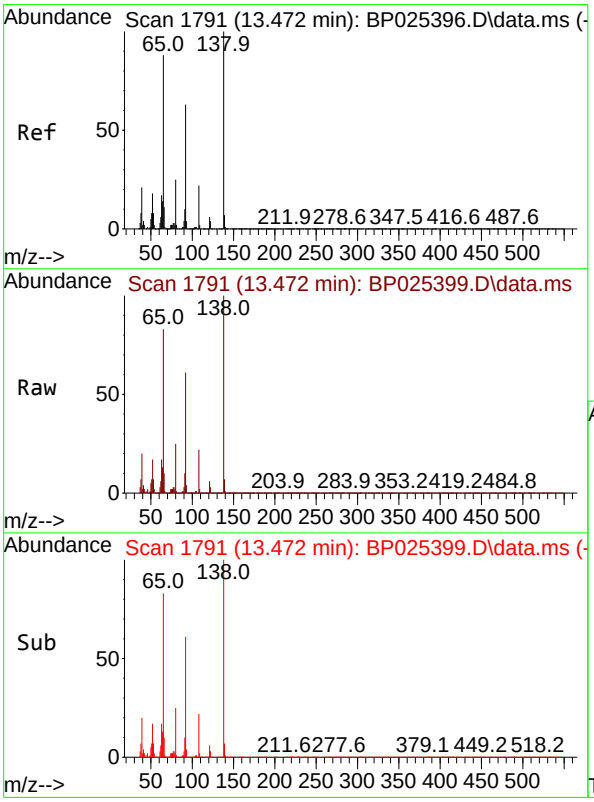
#47
2-Chloronaphthalene
Concen: 77.804 ng
RT: 13.272 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Tgt Ion:162 Resp: 1918120

Ion	Ratio	Lower	Upper
162	100		
127	41.9	33.4	50.2
164	33.0	26.2	39.2

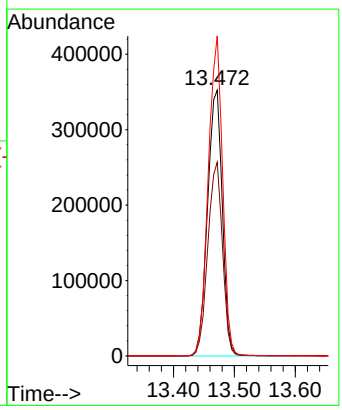


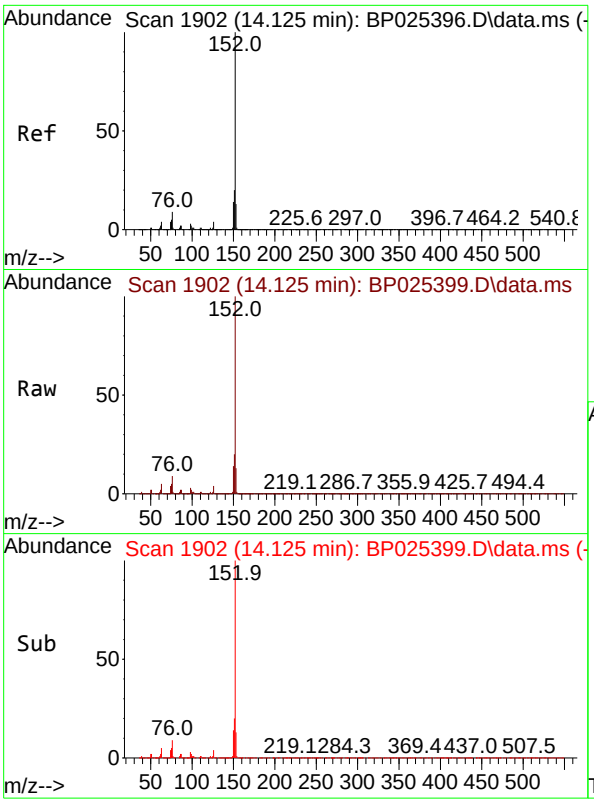


#48
2-Nitroaniline
Concen: 82.788 ng
RT: 13.472 min Scan# 1791
Delta R.T. 0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion: 65 Resp: 594696

Ion	Ratio	Lower	Upper
65	100		
92	72.9	57.6	86.4
138	120.4	91.0	136.6



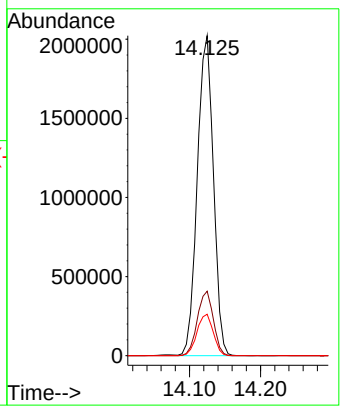


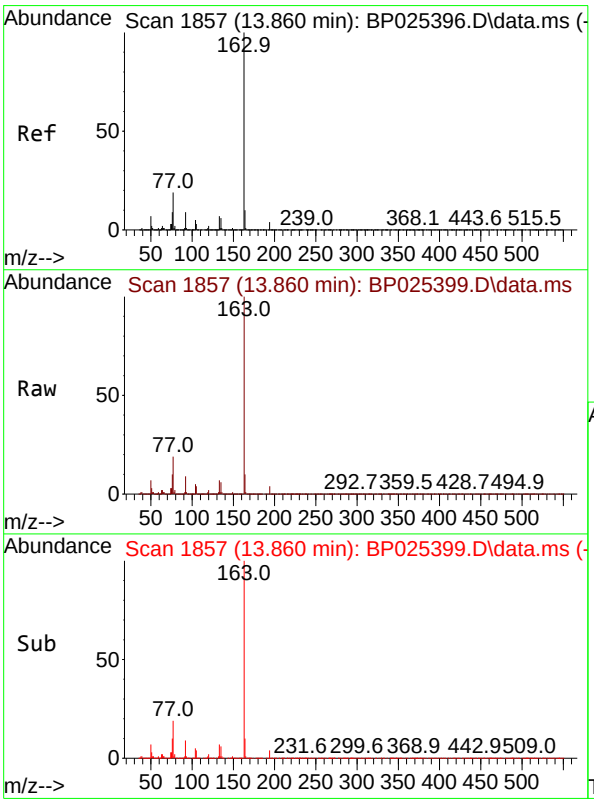
#49
Acenaphthylene
Concen: 78.318 ng
RT: 14.125 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Tgt Ion:152 Resp: 3194918

Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.0	24.0
153	13.0	10.6	15.8

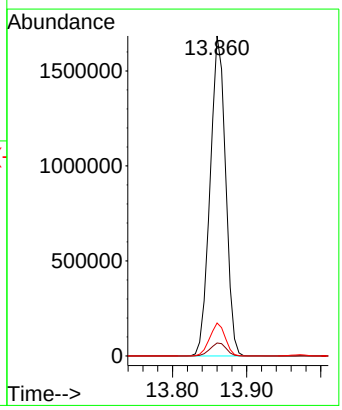


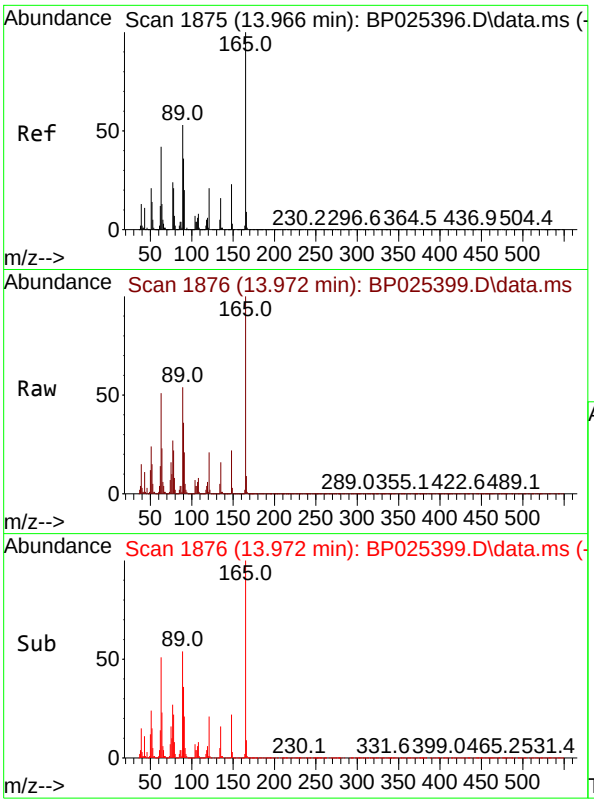


#50
Dimethylphthalate
Concen: 76.632 ng
RT: 13.860 min Scan# 1857
Delta R.T. 0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:163 Resp: 2446951

Ion	Ratio	Lower	Upper
163	100		
194	4.1	3.4	5.0
164	10.3	7.9	11.9



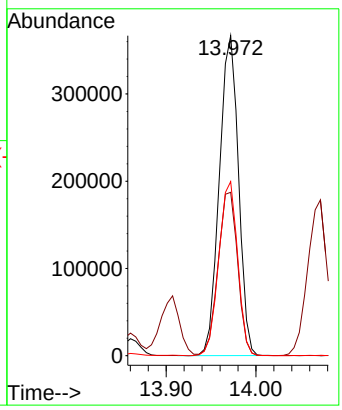


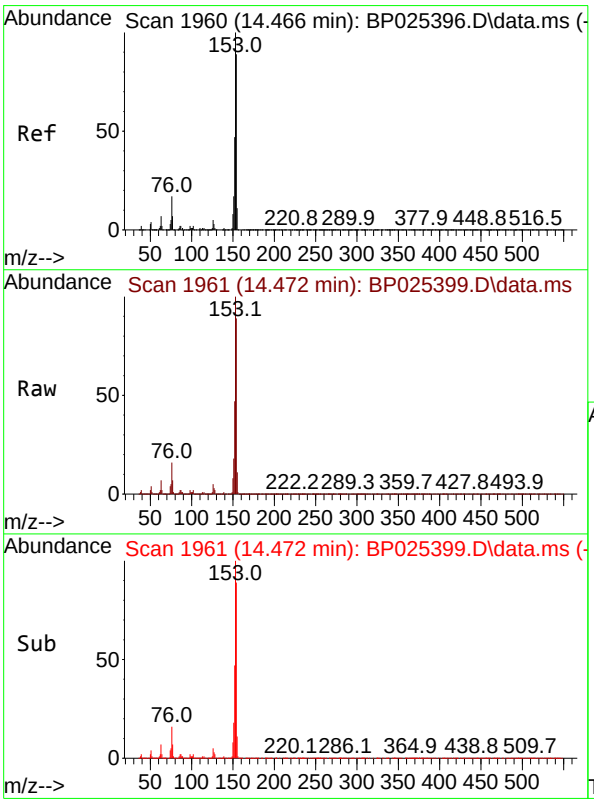
#51
2,6-Dinitrotoluene
Concen: 80.639 ng
RT: 13.972 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Tgt Ion:165 Resp: 542710

Ion	Ratio	Lower	Upper
165	100		
63	51.0	40.9	61.3
89	54.4	42.1	63.1

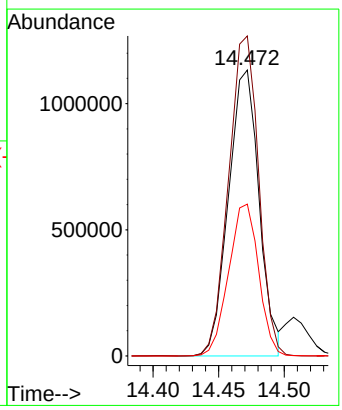


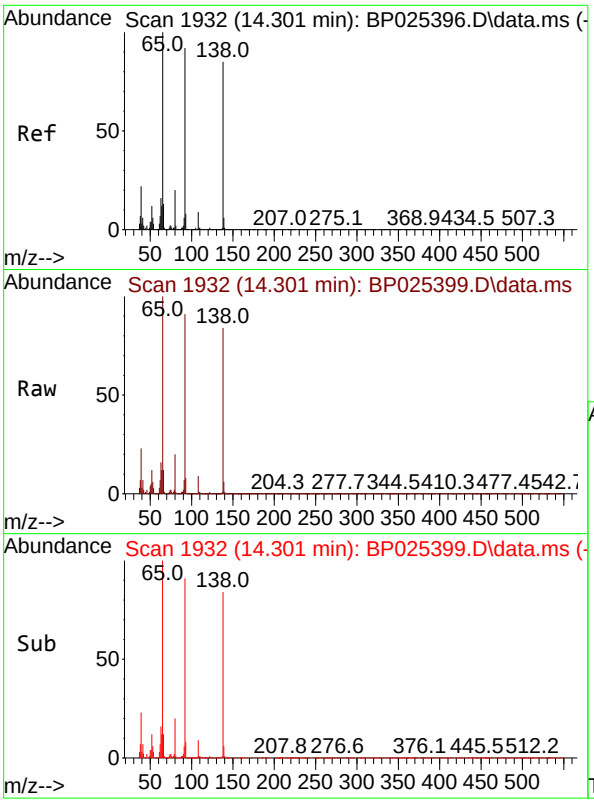


#52
Acenaphthene
Concen: 76.902 ng
RT: 14.472 min Scan# 1961
Delta R.T. 0.006 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:154 Resp: 1841448

Ion	Ratio	Lower	Upper
154	100		
153	111.9	90.2	135.2
152	53.1	42.1	63.1



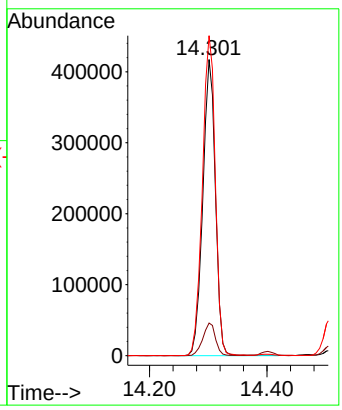


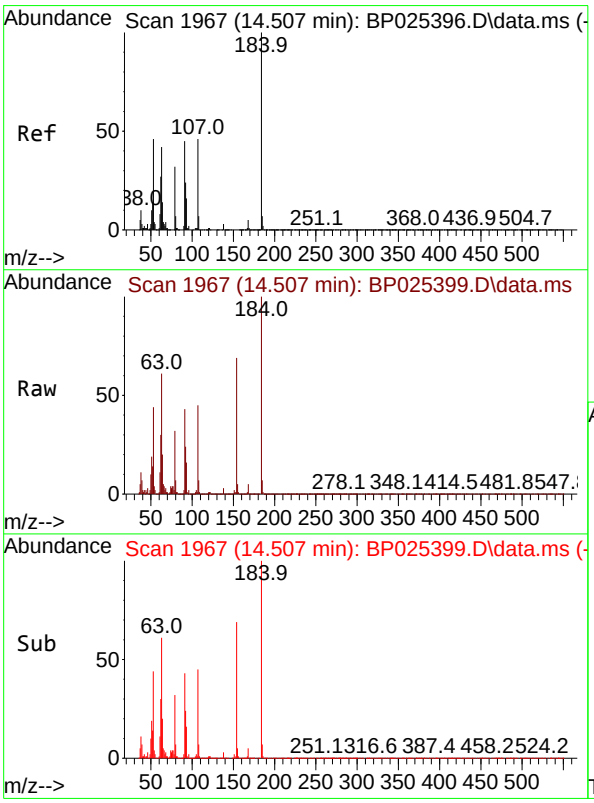
#53
3-Nitroaniline
Concen: 81.627 ng
RT: 14.301 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Tgt Ion:138 Resp: 618087

Ion	Ratio	Lower	Upper
138	100		
108	11.1	8.3	12.5
92	108.1	86.2	129.2

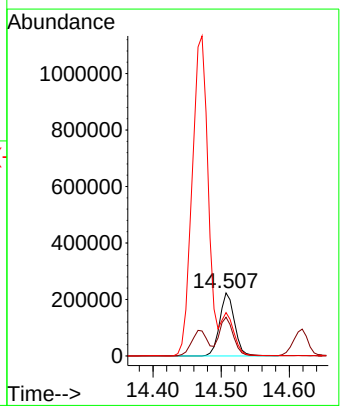


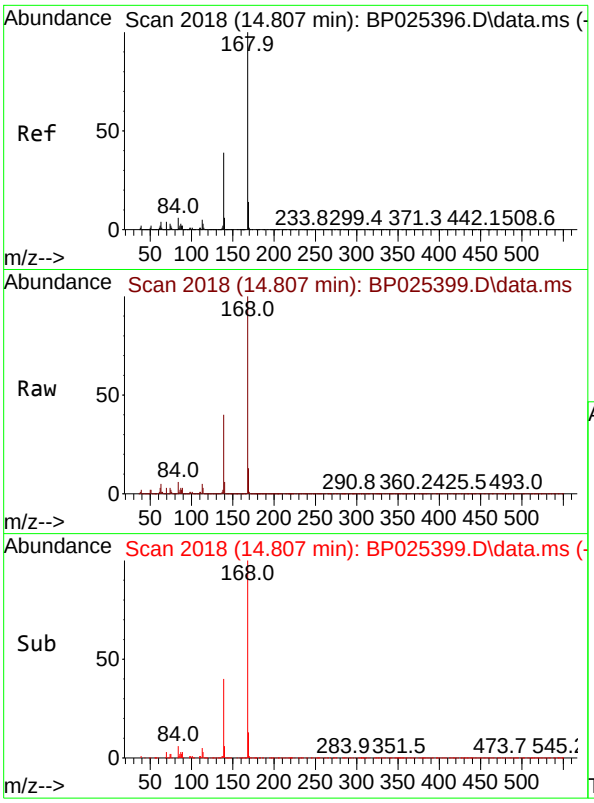


#54
2,4-Dinitrophenol
Concen: 94.356 ng
RT: 14.507 min Scan# 1967
Delta R.T. 0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:184 Resp: 339125

Ion	Ratio	Lower	Upper
184	100		
63	61.4	49.4	74.2
154	68.6	54.6	82.0



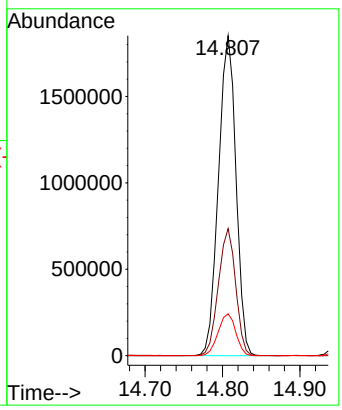


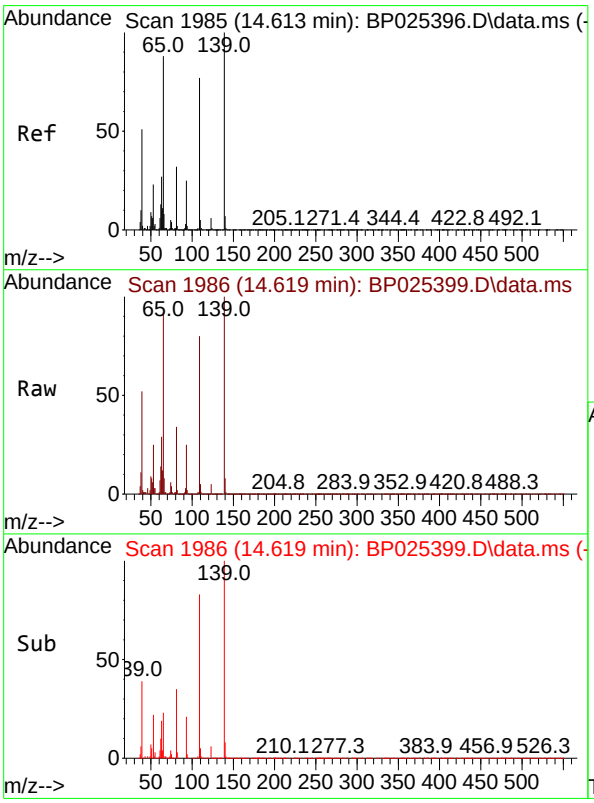
#55
Dibenzofuran
Concen: 77.023 ng
RT: 14.807 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Tgt Ion:168 Resp: 2915933

Ion	Ratio	Lower	Upper
168	100		
139	39.7	31.5	47.3
169	13.1	10.9	16.3

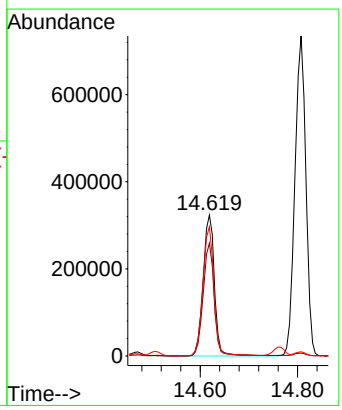


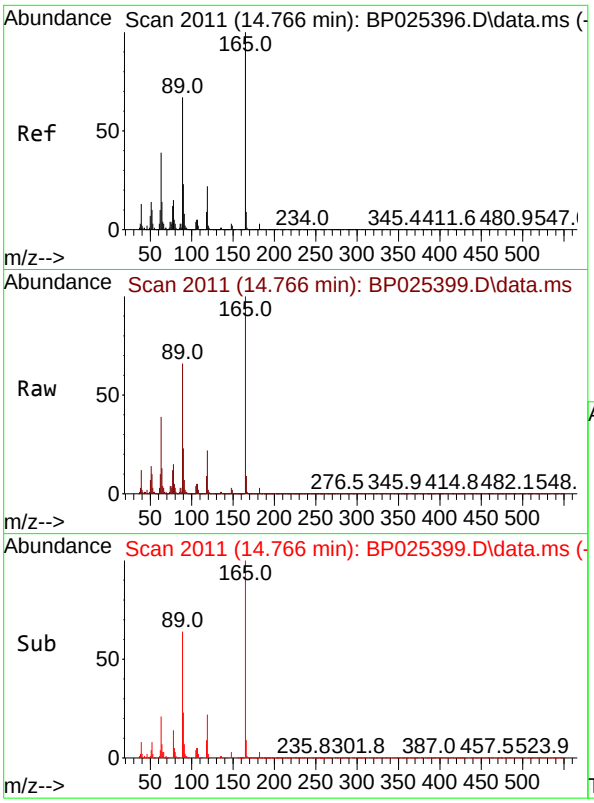


#56
4-Nitrophenol
Concen: 83.618 ng
RT: 14.619 min Scan# 1986
Delta R.T. 0.006 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:139 Resp: 520294

Ion	Ratio	Lower	Upper
139	100		
109	80.0	56.6	96.6
65	91.5	68.2	108.2



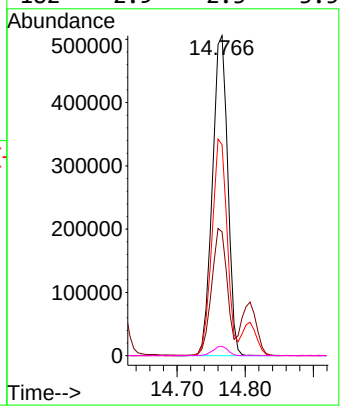


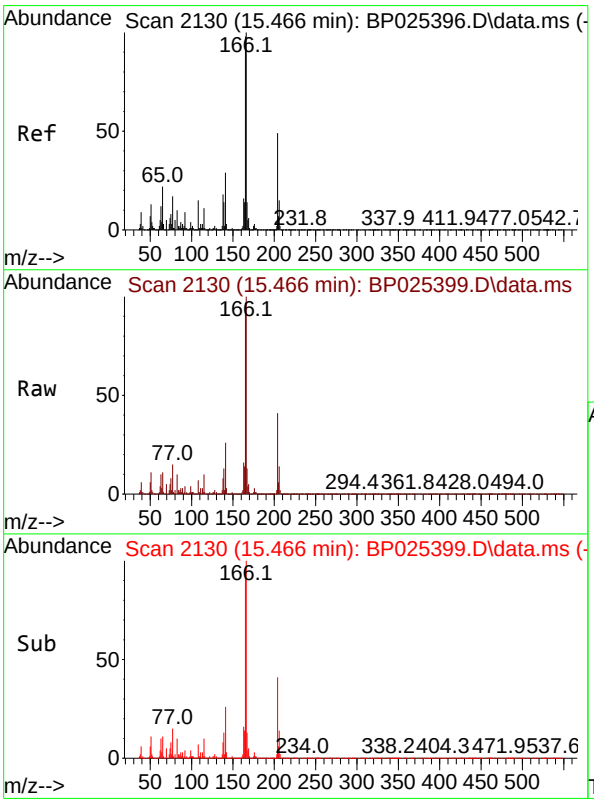
#57
2,4-Dinitrotoluene
Concen: 82.399 ng
RT: 14.766 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Tgt Ion:165 Resp: 791214

Ion	Ratio	Lower	Upper
165	100		
63	38.7	31.4	47.2
89	66.0	53.3	79.9
182	2.9	2.3	3.5

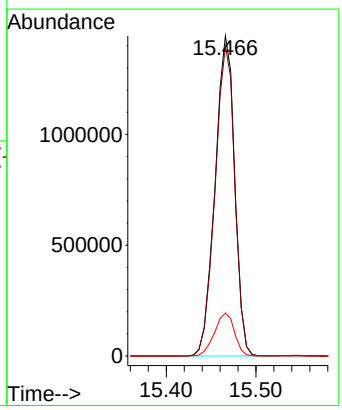


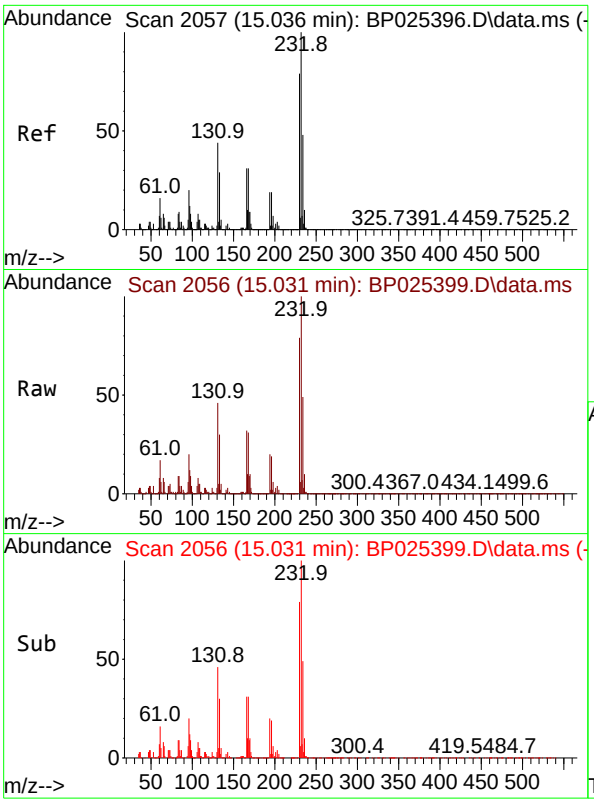


#58
Fluorene
Concen: 73.164 ng
RT: 15.466 min Scan# 2130
Delta R.T. 0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:166 Resp: 2185593

Ion	Ratio	Lower	Upper
166	100		
165	96.8	78.8	118.2
167	13.4	11.0	16.4



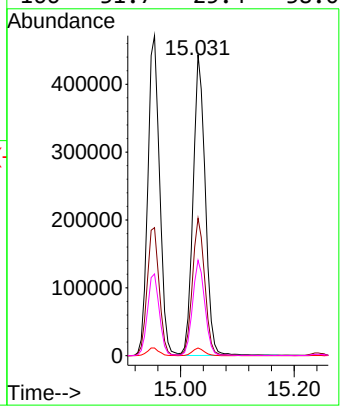


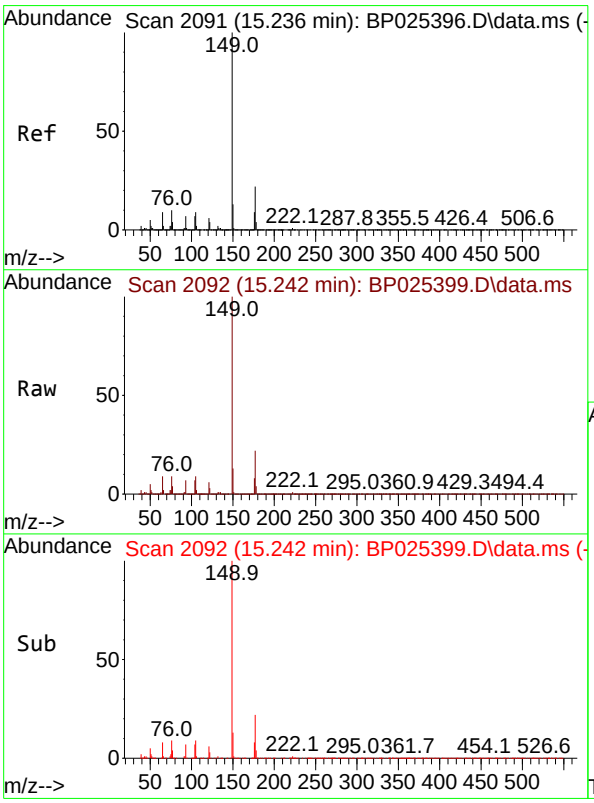
#59
2,3,4,6-Tetrachlorophenol
Concen: 80.448 ng
RT: 15.031 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Tgt Ion:232 Resp: 661890

Ion	Ratio	Lower	Upper
232	100		
131	45.9	37.0	55.6
130	2.5	1.9	2.9
166	31.7	25.4	38.0

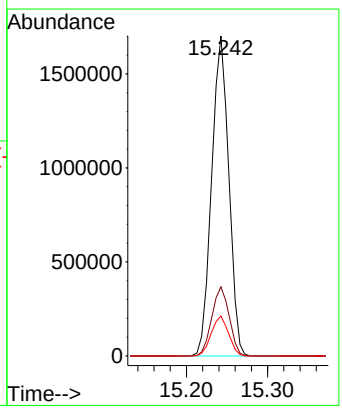


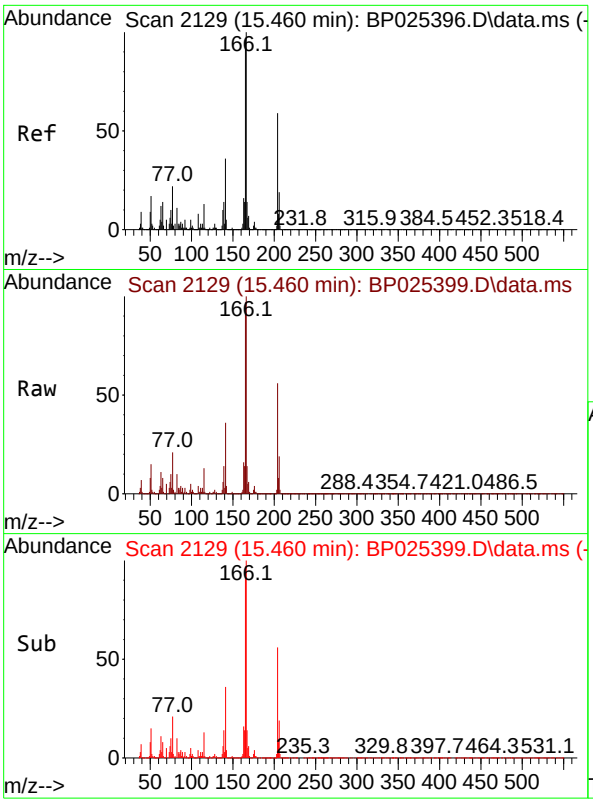


#60
Diethylphthalate
Concen: 76.870 ng
RT: 15.242 min Scan# 2092
Delta R.T. 0.006 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:149 Resp: 2494087

Ion	Ratio	Lower	Upper
149	100		
177	21.6	17.3	25.9
150	12.5	10.3	15.5



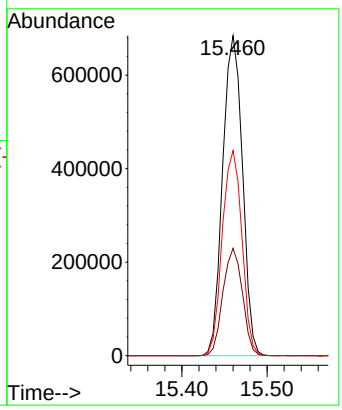


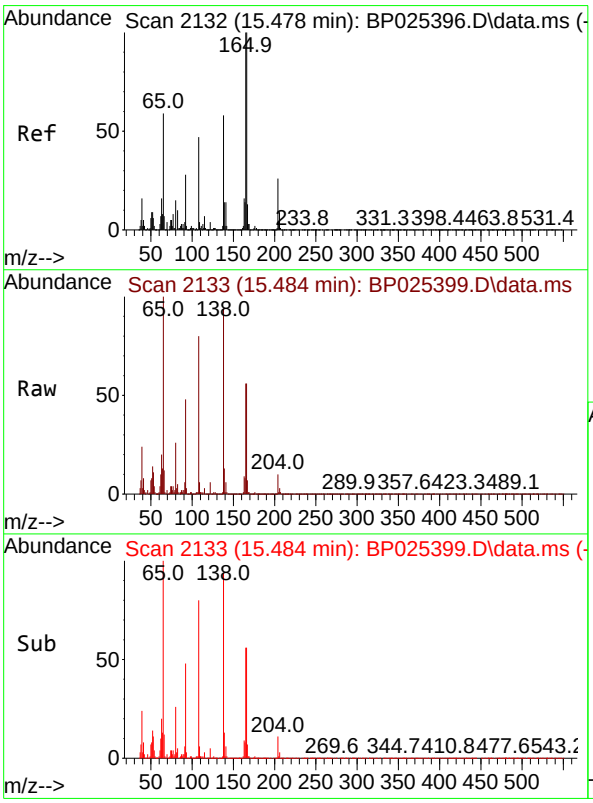
#61
4-Chlorophenyl-phenylether
Concen: 74.388 ng
RT: 15.460 min Scan# 21
Delta R.T. 0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Tgt Ion:204 Resp: 1105157

Ion	Ratio	Lower	Upper
204	100		
206	33.6	25.8	38.8
141	64.1	49.4	74.2

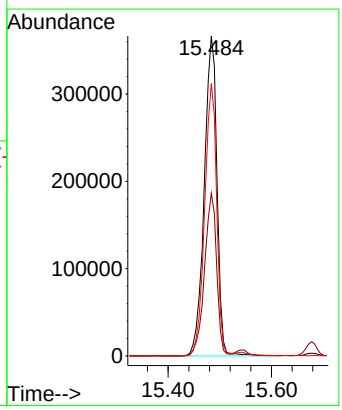


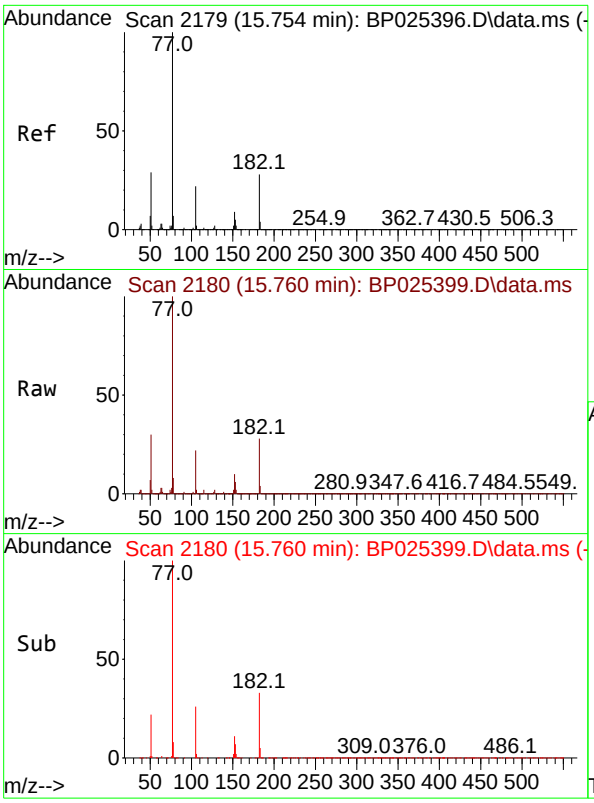


#62
4-Nitroaniline
Concen: 80.710 ng
RT: 15.484 min Scan# 2133
Delta R.T. 0.006 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:138 Resp: 626525

Ion	Ratio	Lower	Upper
138	100		
92	50.8	29.1	69.1
108	85.1	61.5	101.5



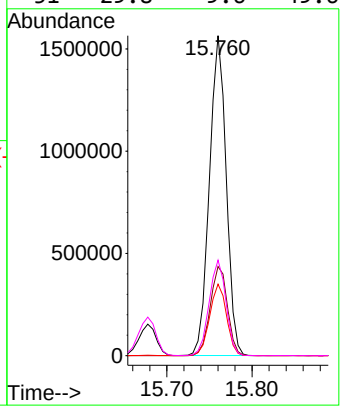


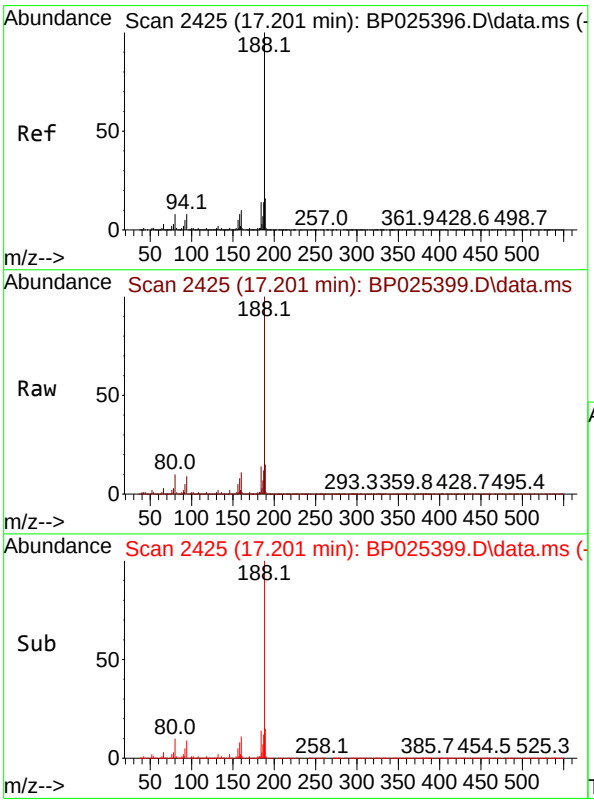
#63
Azobenzene
Concen: 77.017 ng
RT: 15.760 min Scan# 21
Delta R.T. 0.006 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Tgt Ion: 77 Resp: 2139674

Ion	Ratio	Lower	Upper
77	100		
182	27.9	7.5	47.5
105	22.3	2.1	42.1
51	29.8	9.6	49.6

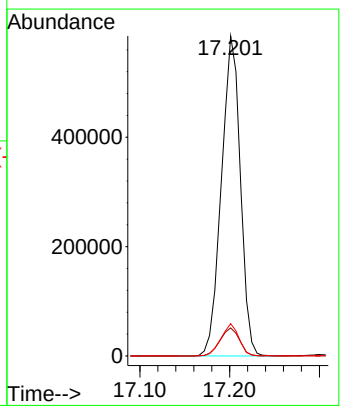


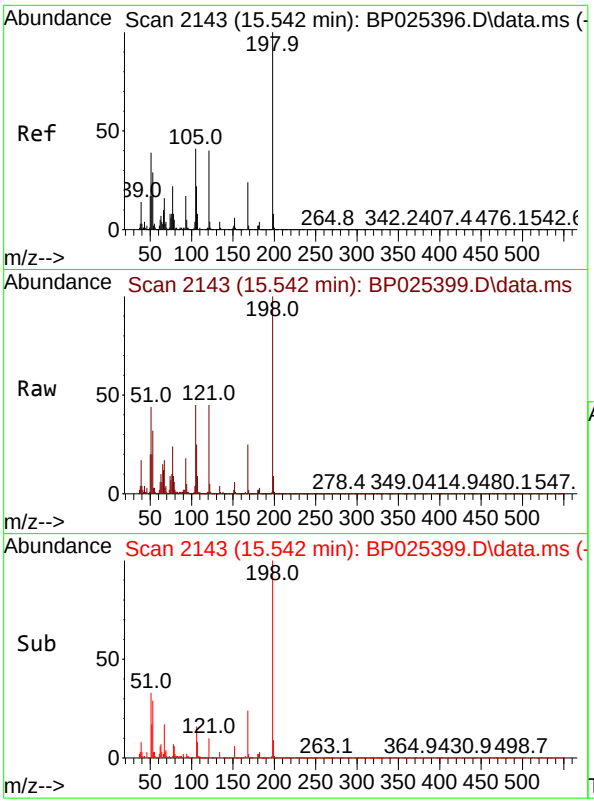


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.201 min Scan# 2425
Delta R.T. 0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:188 Resp: 856946

Ion	Ratio	Lower	Upper
188	100		
94	8.7	6.6	10.0
80	10.1	6.7	10.1#



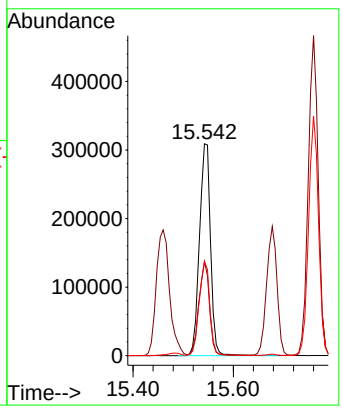


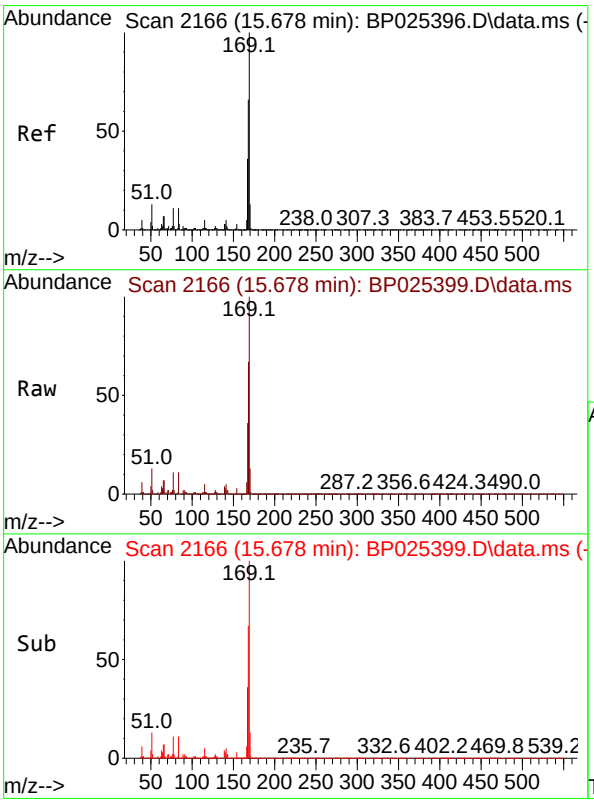
#65
4,6-Dinitro-2-methylphenol
Concen: 88.473 ng
RT: 15.542 min Scan# 21
Delta R.T. 0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Tgt Ion:198 Resp: 472602

Ion	Ratio	Lower	Upper
198	100		
51	44.3	19.6	59.6
105	44.6	20.9	60.9

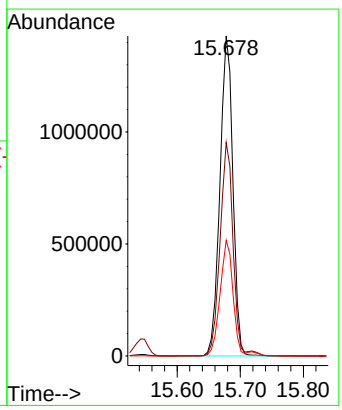


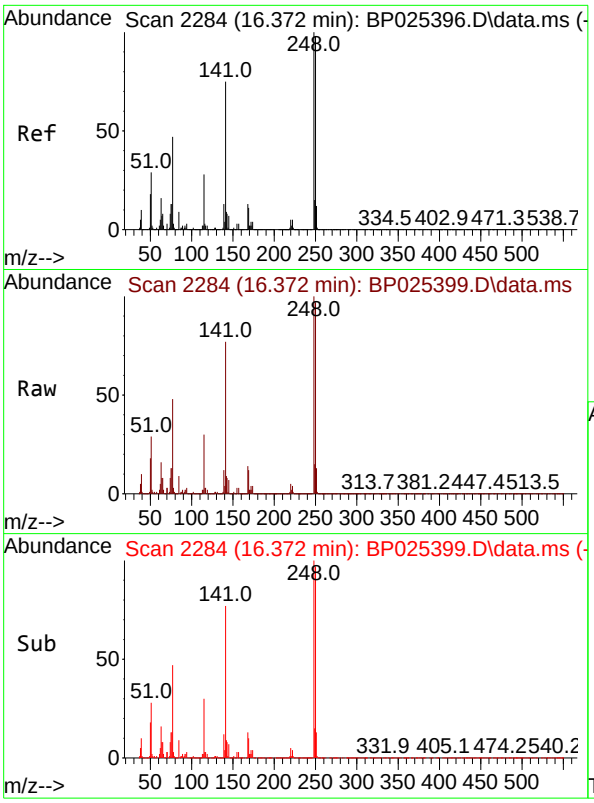


#66
n-Nitrosodiphenylamine
Concen: 77.866 ng
RT: 15.678 min Scan# 2166
Delta R.T. 0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:169 Resp: 2034782

Ion	Ratio	Lower	Upper
169	100		
168	66.7	53.2	79.8
167	36.2	28.7	43.1



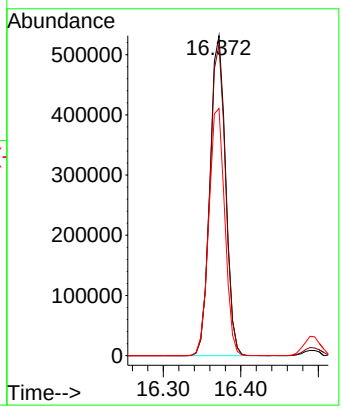


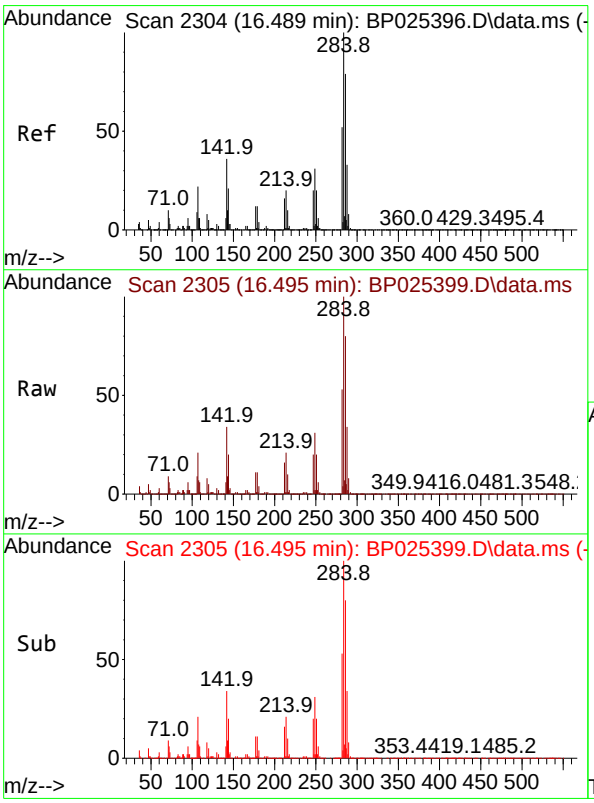
#67
4-Bromophenyl-phenylether
Concen: 79.144 ng
RT: 16.372 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Tgt Ion:248 Resp: 745915

Ion	Ratio	Lower	Upper
248	100		
250	97.2	78.2	117.2
141	77.2	59.6	89.4

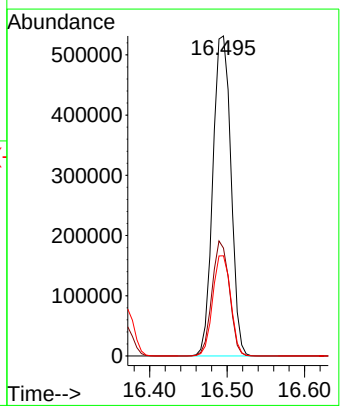


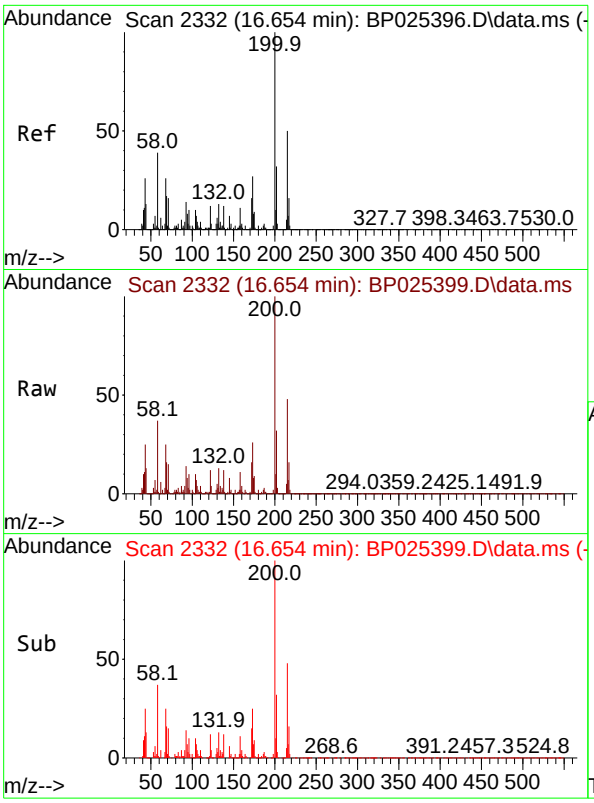


#68
Hexachlorobenzene
Concen: 78.721 ng
RT: 16.495 min Scan# 2305
Delta R.T. 0.006 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:284 Resp: 860051

Ion	Ratio	Lower	Upper
284	100		
142	33.7	29.1	43.7
249	31.3	25.0	37.4



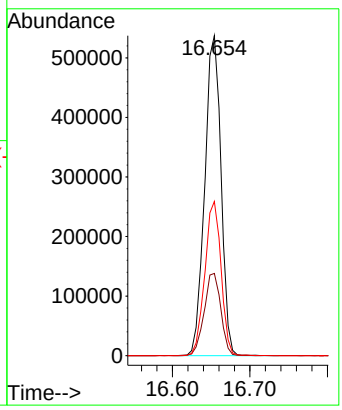


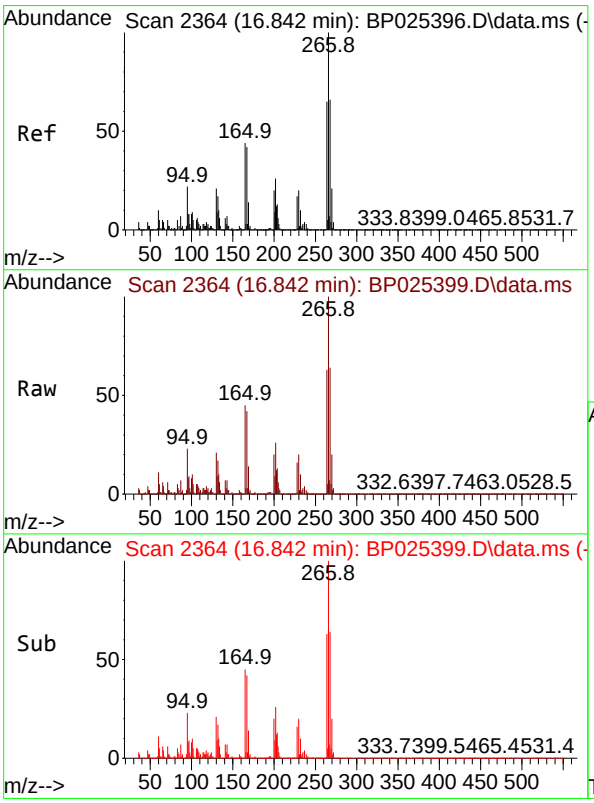
#69
Atrazine
Concen: 80.064 ng
RT: 16.654 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Tgt Ion:200 Resp: 783533

Ion	Ratio	Lower	Upper
200	100		
173	25.7	6.7	46.7
215	48.2	29.7	69.7

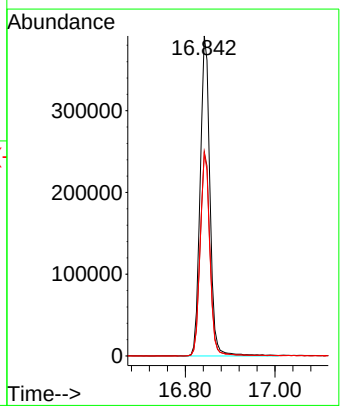


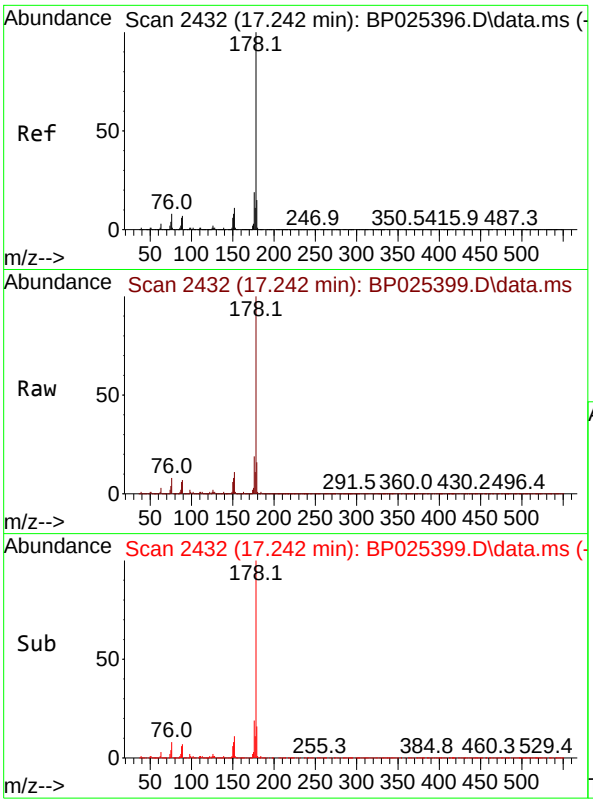


#70
Pentachlorophenol
Concen: 85.502 ng
RT: 16.842 min Scan# 2364
Delta R.T. 0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:266 Resp: 589673

Ion	Ratio	Lower	Upper
266	100		
268	63.8	52.6	79.0
264	63.4	52.0	78.0



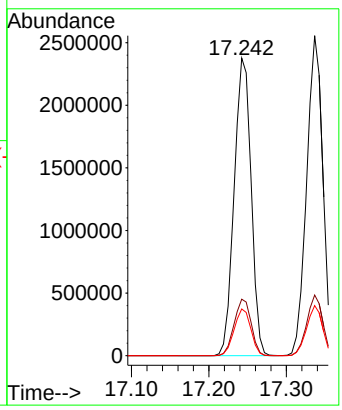


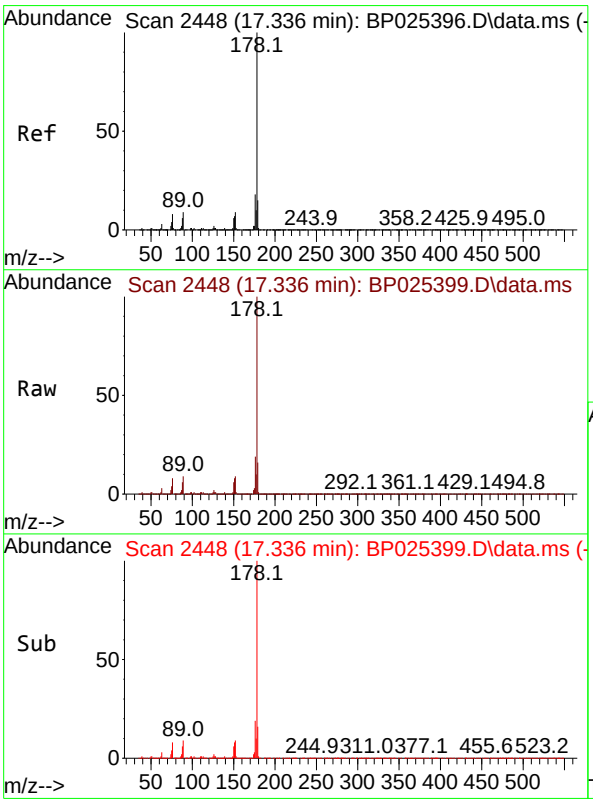
#71
Phenanthrene
Concen: 76.972 ng
RT: 17.242 min Scan# 24
Delta R.T. 0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Tgt Ion:178 Resp: 3623454

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.5	23.3
179	15.7	12.2	18.4

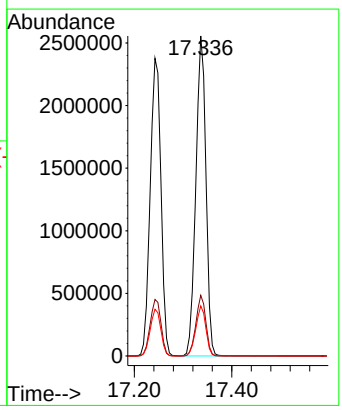


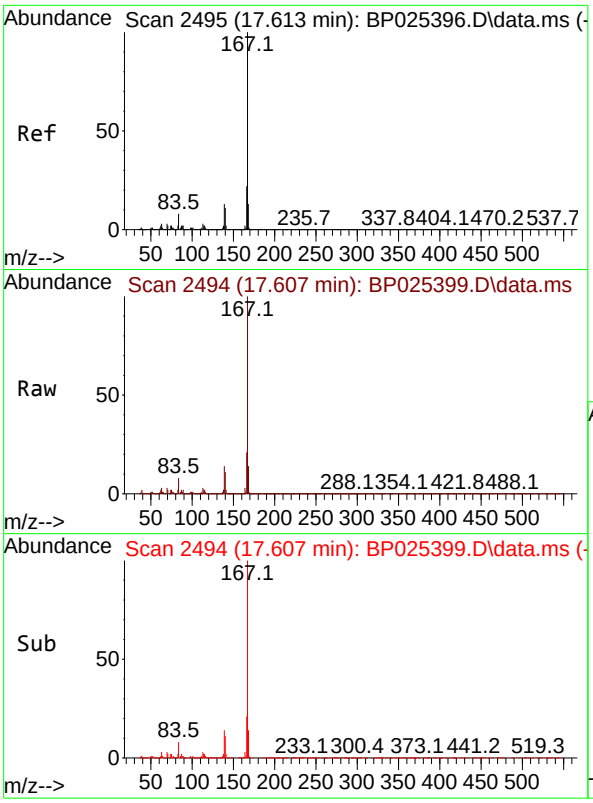


#72
Anthracene
Concen: 77.014 ng
RT: 17.336 min Scan# 2448
Delta R.T. 0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:178 Resp: 3702277

Ion	Ratio	Lower	Upper
178	100		
176	18.9	14.7	22.1
179	15.7	12.2	18.2



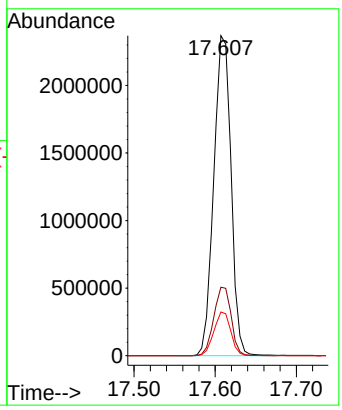


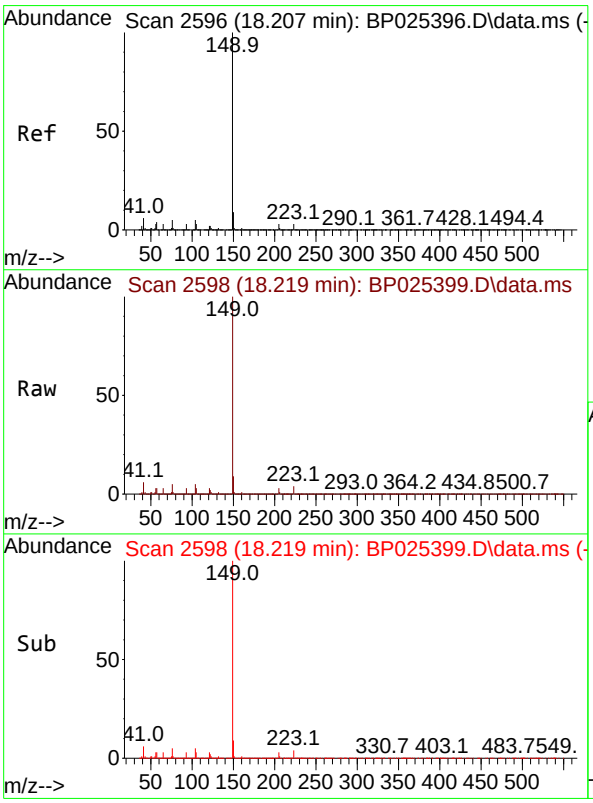
#73
Carbazole
Concen: 77.368 ng
RT: 17.607 min Scan# 24
Delta R.T. -0.006 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Tgt Ion:167 Resp: 3503273

Ion	Ratio	Lower	Upper
167	100		
166	21.4	17.5	26.3
139	13.7	10.6	16.0

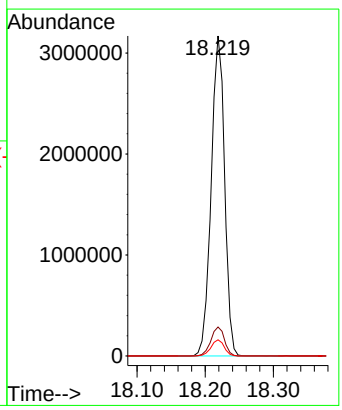


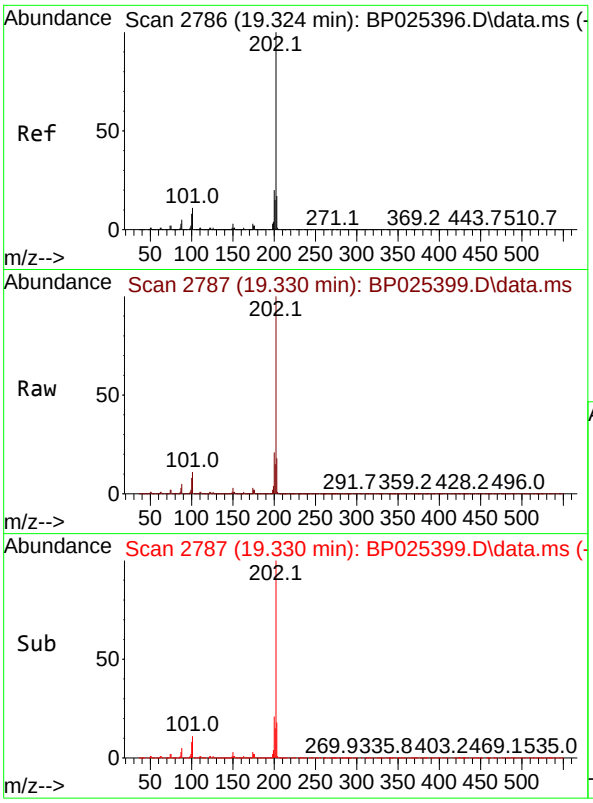


#74
Di-n-butylphthalate
Concen: 77.844 ng
RT: 18.219 min Scan# 2598
Delta R.T. 0.012 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:149 Resp: 4336701

Ion	Ratio	Lower	Upper
149	100		
150	9.1	7.4	11.0
104	5.0	4.2	6.2



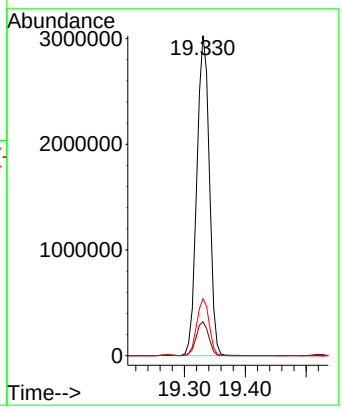


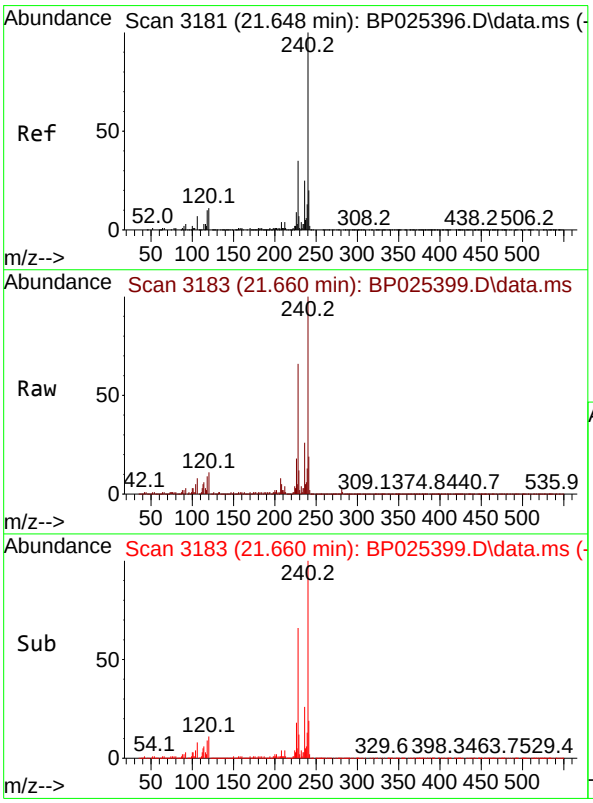
#75
Fluoranthene
Concen: 76.815 ng
RT: 19.330 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Tgt Ion:202 Resp: 4313301

Ion	Ratio	Lower	Upper
202	100		
101	10.6	0.0	31.1
203	17.8	0.0	37.3

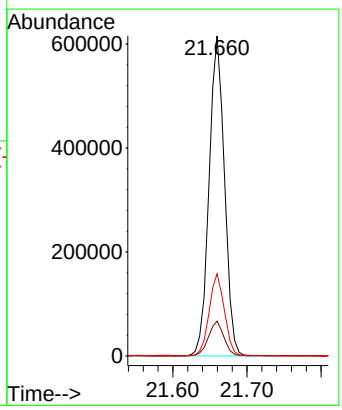


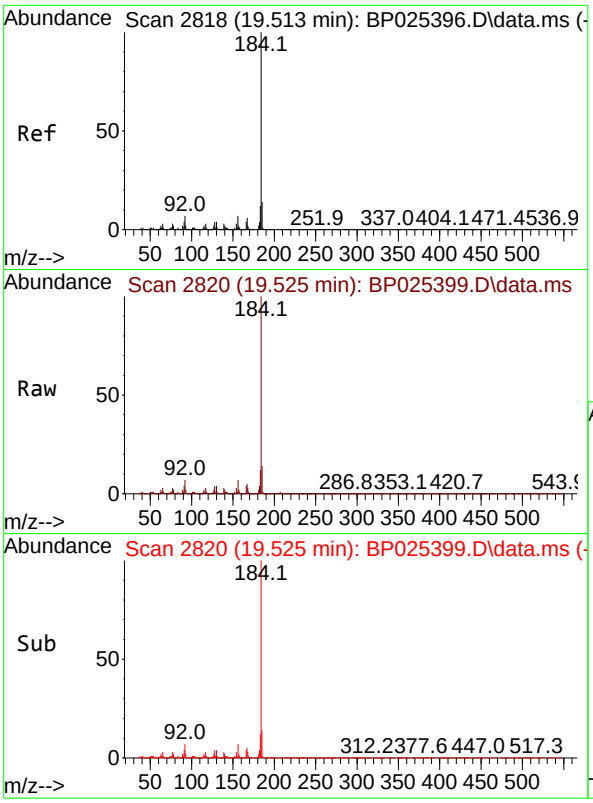


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.660 min Scan# 3183
Delta R.T. 0.012 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:240 Resp: 888879

Ion	Ratio	Lower	Upper
240	100		
120	10.9	8.9	13.3
236	25.7	19.8	29.8



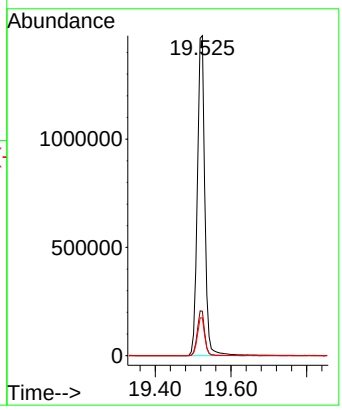


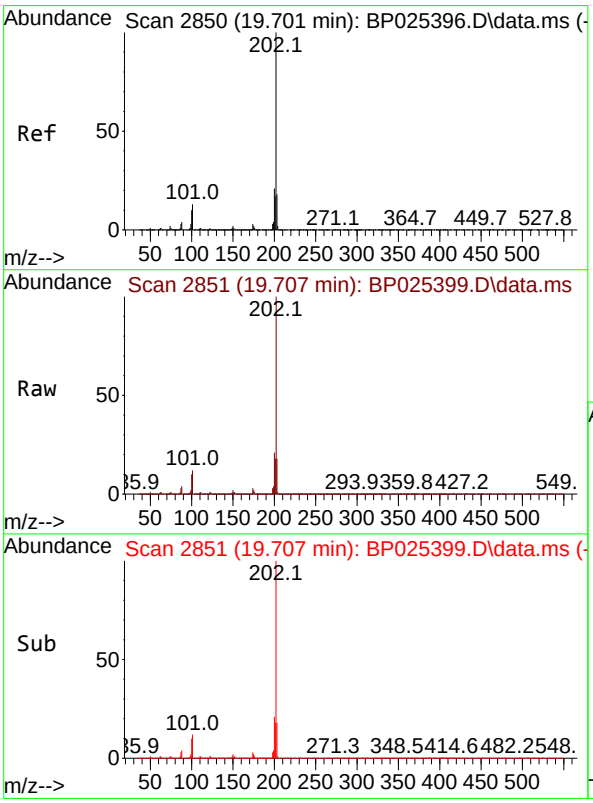
#77
Benzidine
Concen: 67.124 ng
RT: 19.525 min Scan# 2
Delta R.T. 0.012 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Tgt Ion:184 Resp: 2036246

Ion	Ratio	Lower	Upper
184	100		
185	13.9	11.5	17.3
183	11.9	9.4	14.2

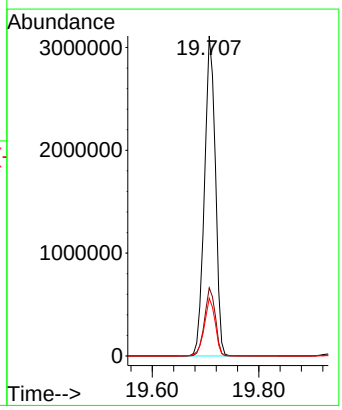


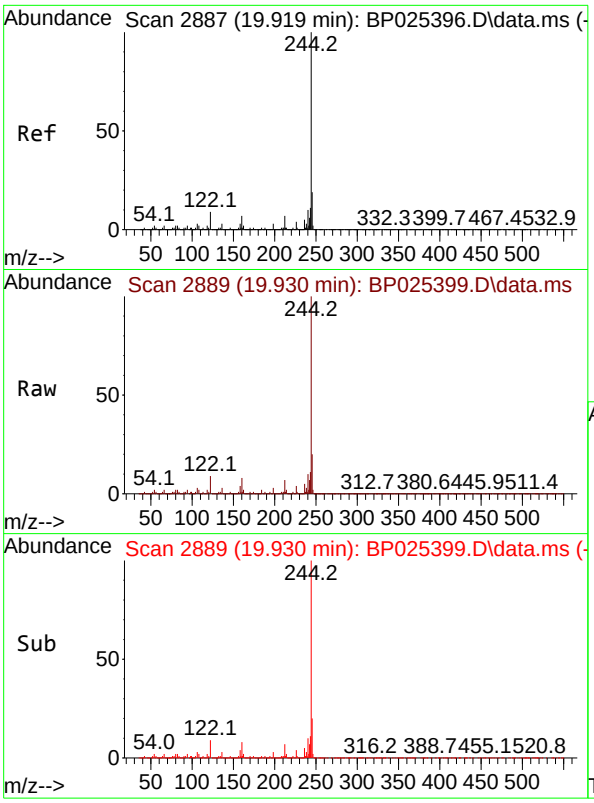


#78
Pyrene
Concen: 76.343 ng
RT: 19.707 min Scan# 2851
Delta R.T. 0.006 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:202 Resp: 4410693

Ion	Ratio	Lower	Upper
202	100		
200	21.3	16.9	25.3
203	18.1	14.2	21.2



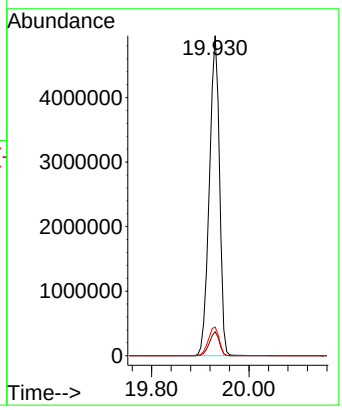


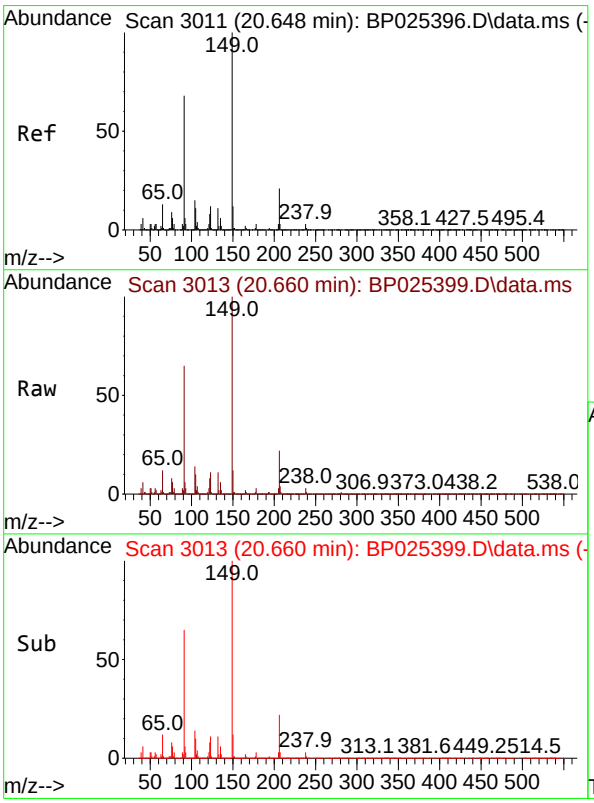
#79
Terphenyl-d14
Concen: 146.217 ng
RT: 19.930 min Scan# 2
Delta R.T. 0.012 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Tgt Ion:244 Resp: 7103816

Ion	Ratio	Lower	Upper
244	100		
212	7.5	5.8	8.6
122	9.0	7.4	11.2

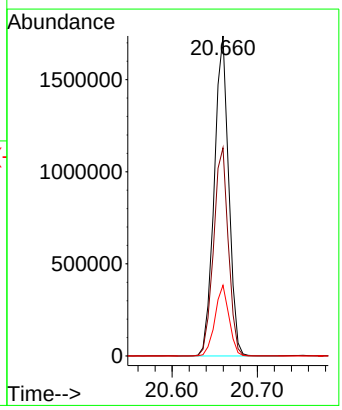


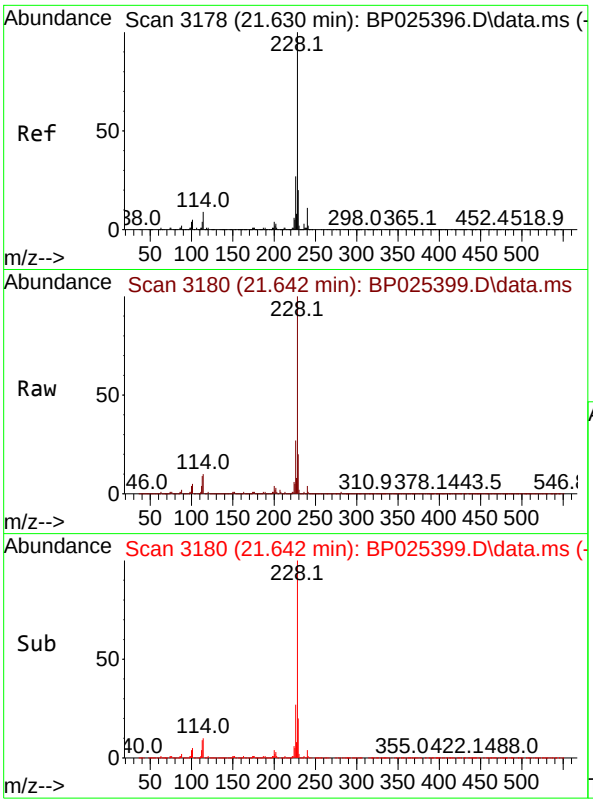


#80
Butylbenzylphthalate
Concen: 78.460 ng
RT: 20.660 min Scan# 3013
Delta R.T. 0.012 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:149 Resp: 2054404

Ion	Ratio	Lower	Upper
149	100		
91	65.0	54.2	81.2
206	22.1	16.6	24.8



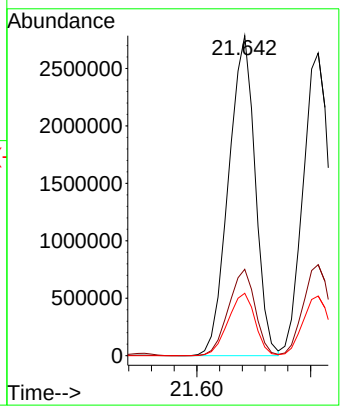


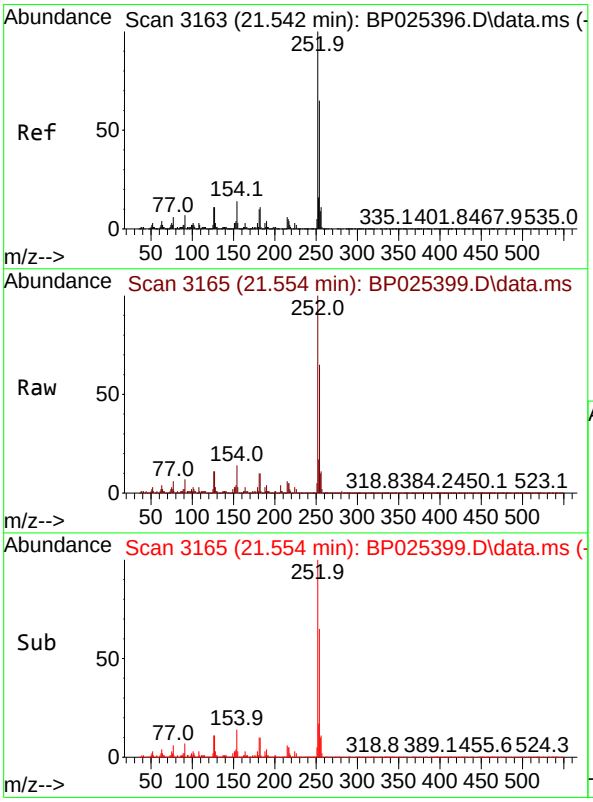
#81
Benzo(a)anthracene
Concen: 77.322 ng
RT: 21.642 min Scan# 3
Delta R.T. 0.012 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Tgt Ion:228 Resp: 4532763

Ion	Ratio	Lower	Upper
228	100		
226	27.0	21.7	32.5
229	19.5	15.6	23.4

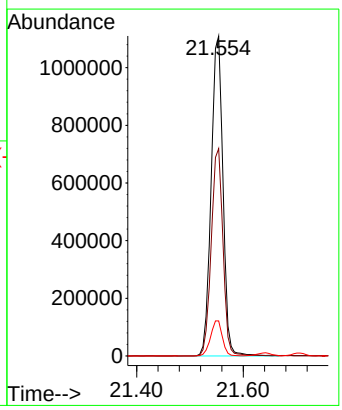


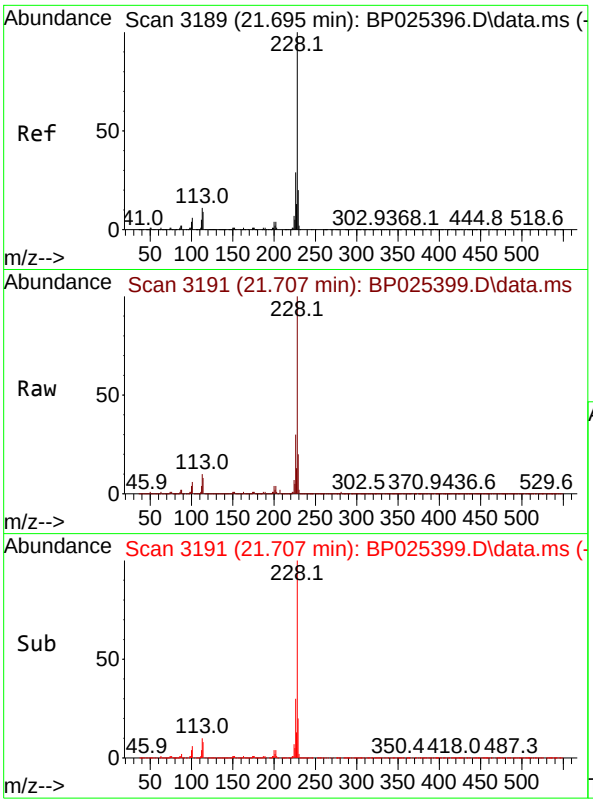


#82
3,3'-Dichlorobenzidine
Concen: 77.197 ng
RT: 21.554 min Scan# 3165
Delta R.T. 0.012 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:252 Resp: 1705746

Ion	Ratio	Lower	Upper
252	100		
254	64.8	51.8	77.6
126	11.0	9.1	13.7



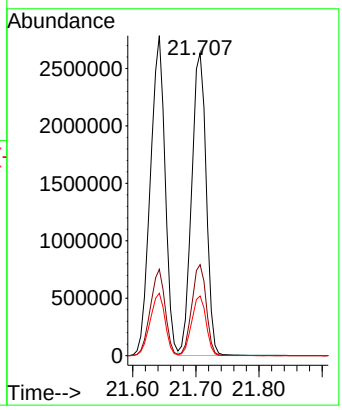


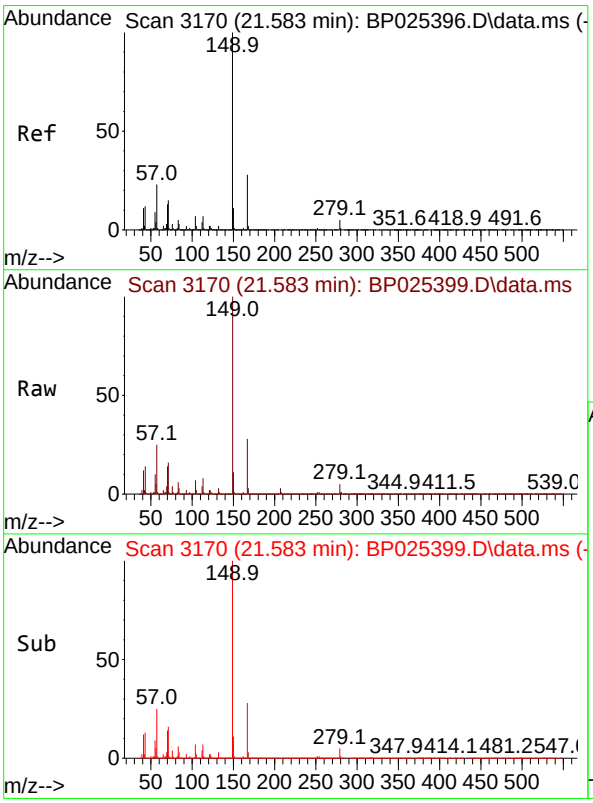
#83
Chrysene
Concen: 76.835 ng
RT: 21.707 min Scan# 3
Delta R.T. 0.012 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Tgt Ion:228 Resp: 4218161

Ion	Ratio	Lower	Upper
228	100		
226	30.1	23.2	34.8
229	19.7	15.6	23.4

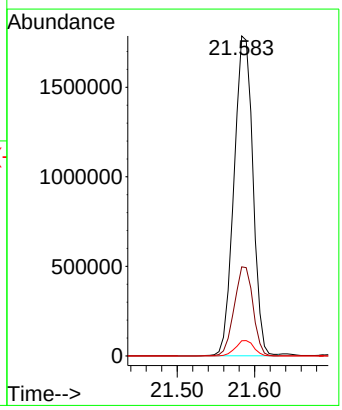


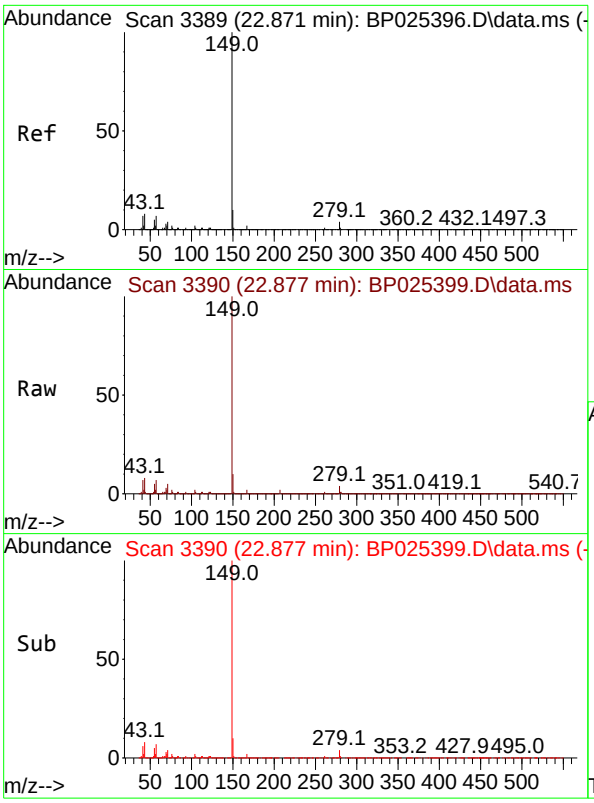


#84
Bis(2-ethylhexyl)phthalate
Concen: 78.400 ng
RT: 21.583 min Scan# 3170
Delta R.T. 0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:149 Resp: 3021891

Ion	Ratio	Lower	Upper
149	100		
167	27.8	22.1	33.1
279	4.8	3.8	5.6



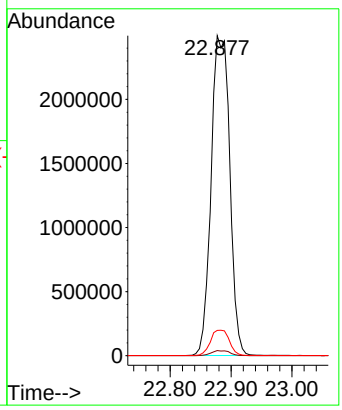


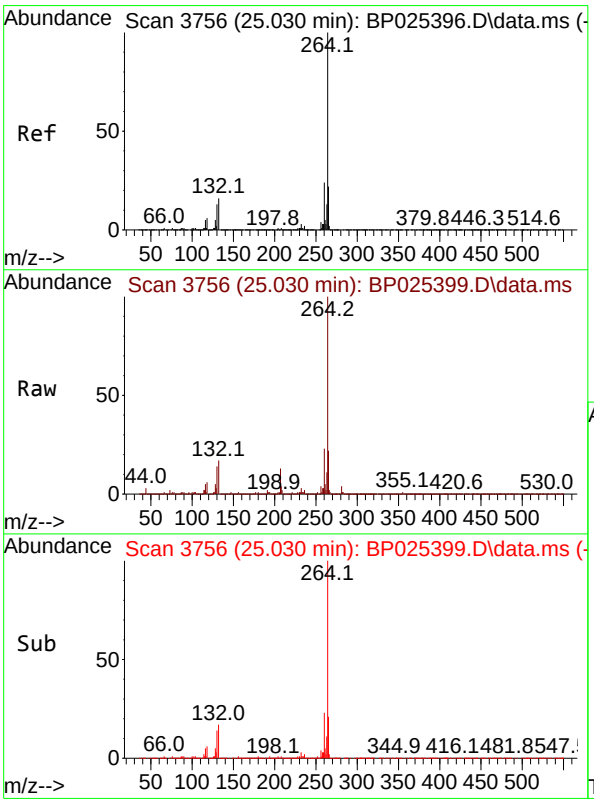
#85
Di-n-octyl phthalate
Concen: 79.974 ng
RT: 22.877 min Scan# 3
Delta R.T. 0.006 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Tgt Ion:149 Resp: 5302080

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	8.0	6.3	9.5

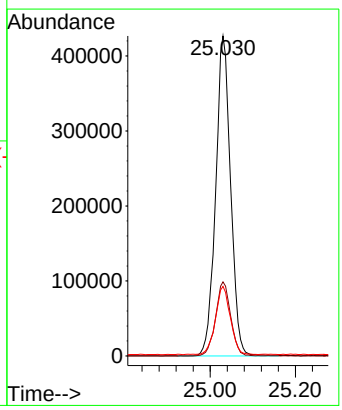


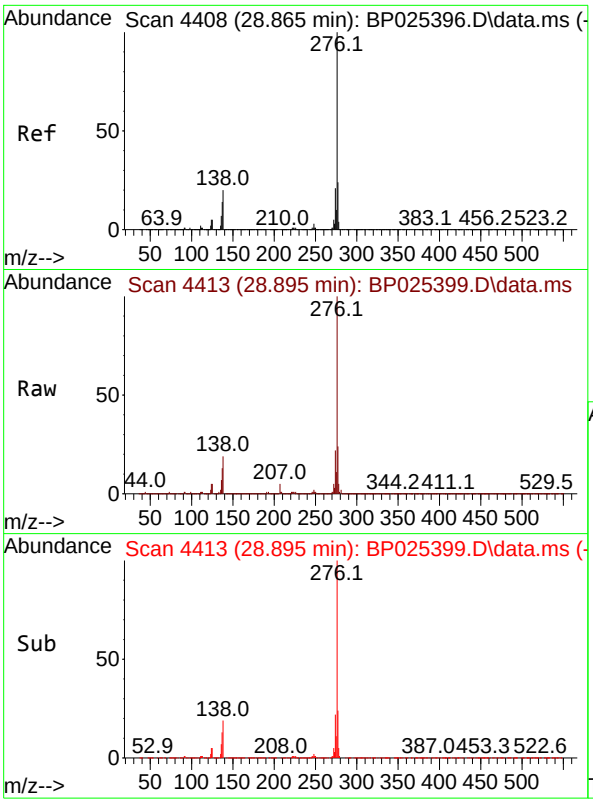


#86
Perylene-d12
Concen: 20.000 ng
RT: 25.030 min Scan# 3756
Delta R.T. 0.000 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:264 Resp: 1037707

Ion	Ratio	Lower	Upper
264	100		
260	23.2	19.3	28.9
265	21.8	17.4	26.0



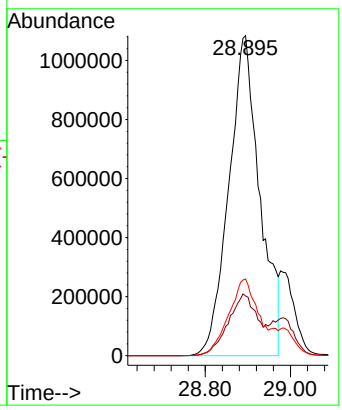


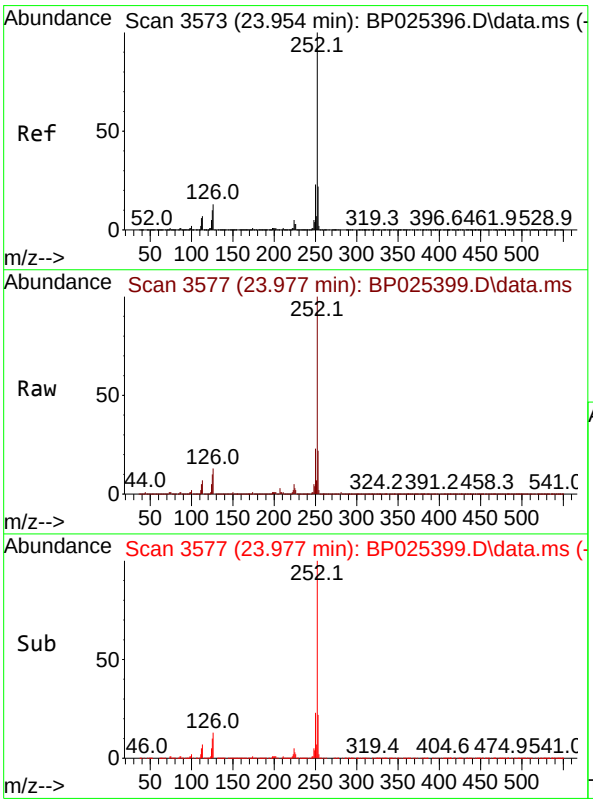
#87
Indeno(1,2,3-cd)pyrene
Concen: 71.894 ng
RT: 28.895 min Scan# 44
Delta R.T. 0.029 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Tgt Ion:276 Resp: 5473121

Ion	Ratio	Lower	Upper
276	100		
138	19.0	12.9	19.3
277	23.1	17.0	25.6

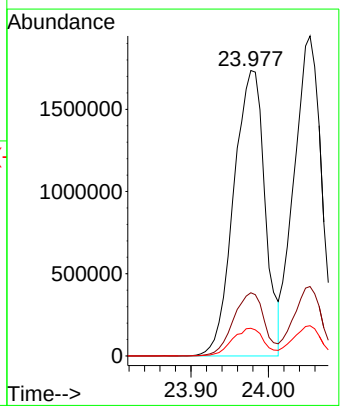


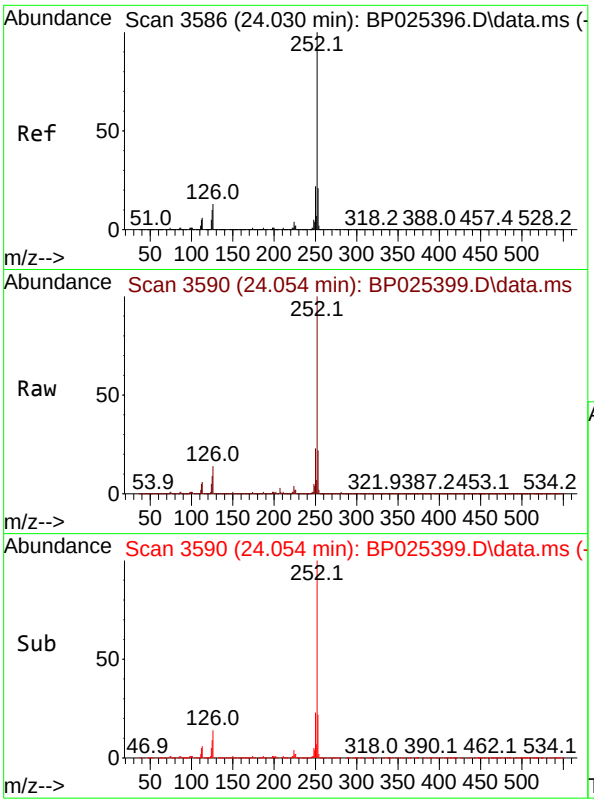


#88
Benzo(b)fluoranthene
Concen: 79.692 ng
RT: 23.977 min Scan# 3577
Delta R.T. 0.024 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:252 Resp: 4876398

Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.7	26.5
125	9.7	7.9	11.9



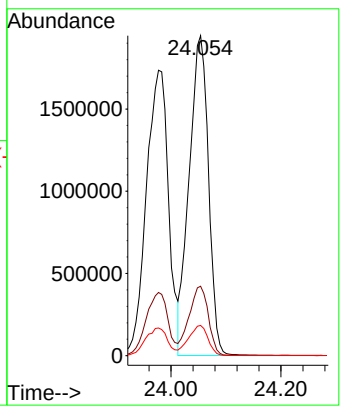


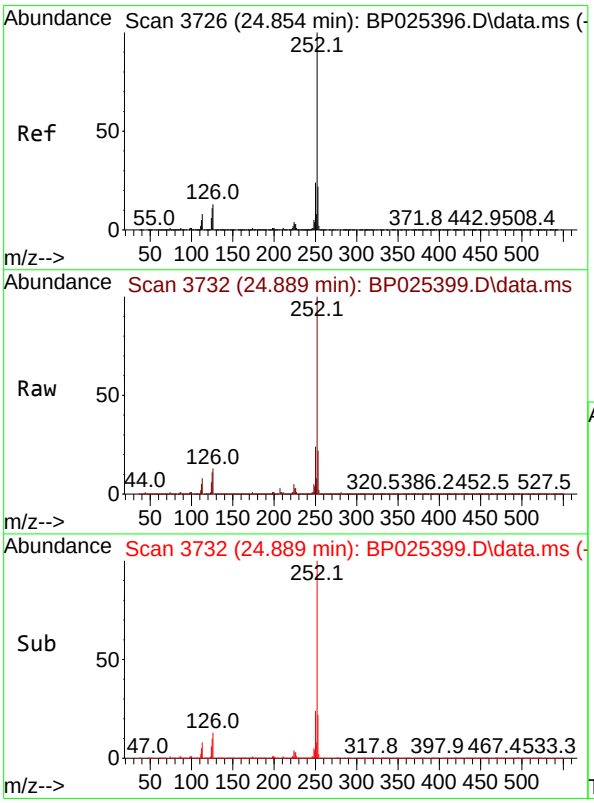
#89
Benzo(k)fluoranthene
Concen: 77.323 ng
RT: 24.054 min Scan# 3
Delta R.T. 0.024 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Tgt Ion:252 Resp: 4734637

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.1	25.7
125	9.5	7.8	11.6

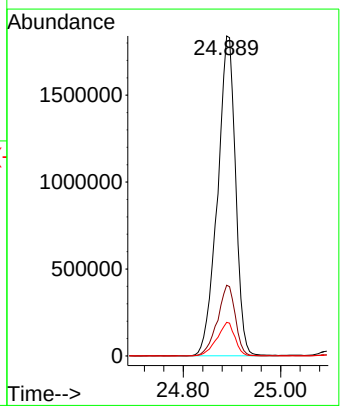


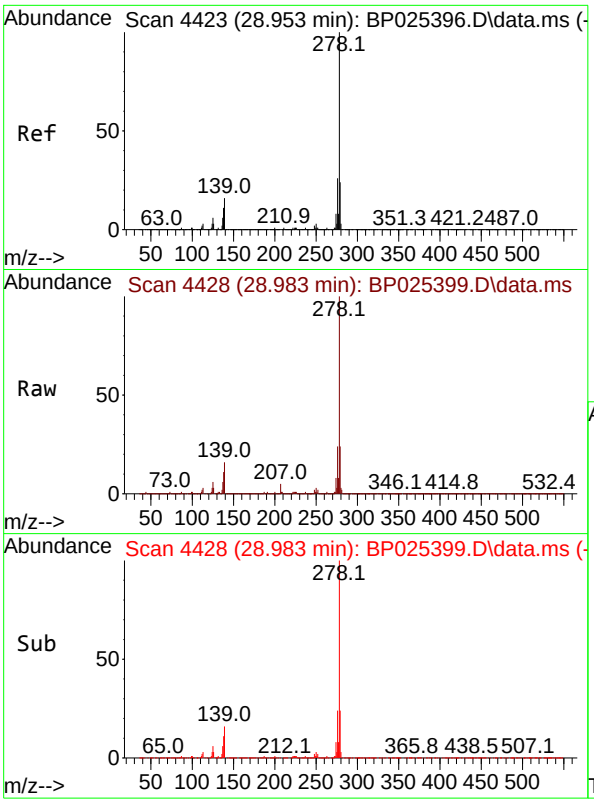


#90
Benzo(a)pyrene
Concen: 79.505 ng
RT: 24.889 min Scan# 3732
Delta R.T. 0.035 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:252 Resp: 4735685

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.5	26.3
125	10.5	8.7	13.1



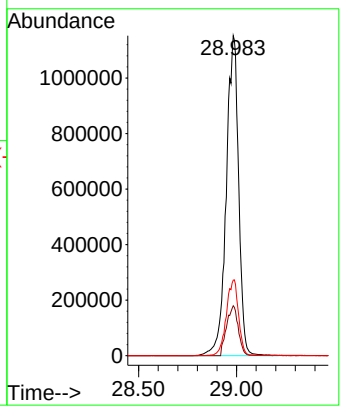


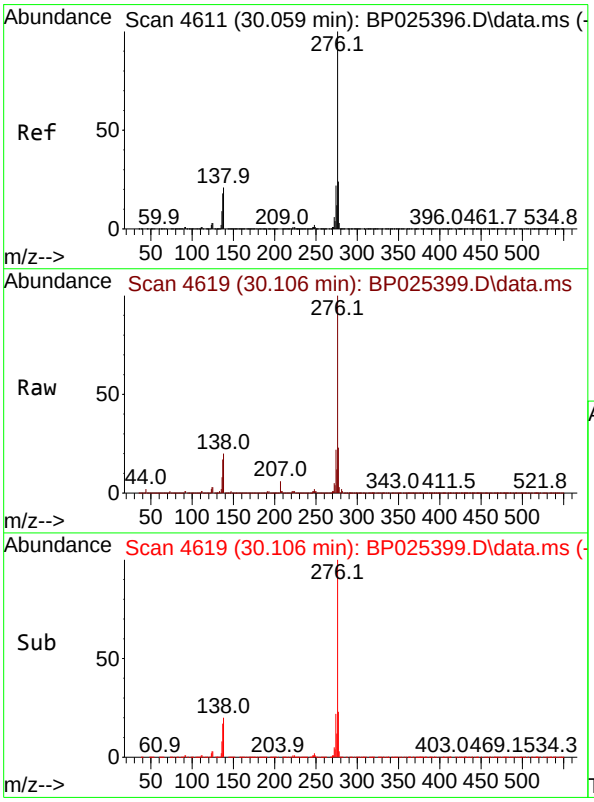
#91
Dibenzo(a,h)anthracene
Concen: 81.142 ng
RT: 28.983 min Scan# 4
Delta R.T. 0.029 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Tgt Ion:278 Resp: 5046260

Ion	Ratio	Lower	Upper
278	100		
139	15.6	13.0	19.4
279	23.6	19.4	29.2

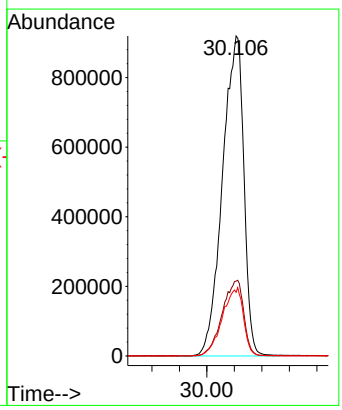




#92
Benzo(g,h,i)perylene
Concen: 80.973 ng
RT: 30.106 min Scan# 4619
Delta R.T. 0.047 min
Lab File: BP025399.D
Acq: 14 Aug 2025 17:24

Tgt Ion:276 Resp: 4949477

Ion	Ratio	Lower	Upper
276	100		
277	23.4	19.4	29.0
138	19.9	16.7	25.1



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081425\
Data File : BP025400.D
Acq On : 14 Aug 2025 18:05
Operator : CG/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
ICVBP081425

Quant Time: Aug 14 18:24:25 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.790	152	174007	20.000	ng		0.00
21) Naphthalene-d8	10.566	136	750079	20.000	ng		0.00
39) Acenaphthene-d10	14.407	164	503239	20.000	ng		0.00
64) Phenanthrene-d10	17.213	188	1034378	20.000	ng		0.01
76) Chrysene-d12	21.654	240	1060337	20.000	ng		0.00
86) Perylene-d12	25.024	264	1200519	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.408	112	727486	69.430	ng		0.00
7) Phenol-d6	6.966	99	962695	71.663	ng		0.00
23) Nitrobenzene-d5	8.937	82	984441	66.391	ng		0.00
42) 2,4,6-Tribromophenol	15.919	330	484870	71.582	ng		0.00
45) 2-Fluorobiphenyl	13.025	172	2430828	66.016	ng		0.00
79) Terphenyl-d14	19.936	244	3848160	66.399	ng		0.02
Target Compounds							Qvalue
2) 1,4-Dioxane	3.331	88	138687	33.792	ng		99
3) Pyridine	3.731	79	403298	35.901	ng		98
4) n-Nitrosodimethylamine	3.631	42	176521	38.115	ng		98
6) Aniline	7.125	93	690437	38.147	ng		99
8) 2-Chlorophenol	7.366	128	455230	38.501	ng		99
9) Benzaldehyde	6.943	77	321335	34.142	ng		96
10) Phenol	6.996	94	541123	38.388	ng		99
11) bis(2-Chloroethyl)ether	7.219	93	421318	38.348	ng		99
12) 1,3-Dichlorobenzene	7.684	146	492014	37.738	ng		100
13) 1,4-Dichlorobenzene	7.825	146	504919	37.890	ng		97
14) 1,2-Dichlorobenzene	8.143	146	487845	37.818	ng		99
15) Benzyl Alcohol	8.025	79	416544	39.025	ng		98
16) 2,2'-oxybis(1-Chloropr...	8.319	45	563276	38.271	ng		99
17) 2-Methylphenol	8.225	107	380608	38.877	ng		100
18) Hexachloroethane	8.866	117	186691	38.103	ng		97
19) n-Nitroso-di-n-propyla...	8.590	70	340533	38.270	ng		99
20) 3+4-Methylphenols	8.549	107	524095	38.620	ng		99
22) Acetophenone	8.602	105	718869	38.216	ng	#	99
24) Nitrobenzene	8.978	77	494466	37.313	ng		98
25) Isophorone	9.501	82	993378	37.855	ng		99
26) 2-Nitrophenol	9.678	139	263348	38.722	ng		97
27) 2,4-Dimethylphenol	9.743	122	455078	38.910	ng		99
28) bis(2-Chloroethoxy)met...	9.972	93	599862	37.816	ng		99
29) 2,4-Dichlorophenol	10.213	162	449034	38.649	ng		98
30) 1,2,4-Trichlorobenzene	10.431	180	474183	37.231	ng		98
31) Naphthalene	10.613	128	1459279	37.431	ng		99
32) Benzoic acid	9.884	122	330207	38.242	ng		96
33) 4-Chloroaniline	10.713	127	655135	38.043	ng		99
34) Hexachlorobutadiene	10.901	225	293728	37.031	ng		98
35) Caprolactam	11.501	113	163211	38.310	ng		98
36) 4-Chloro-3-methylphenol	11.837	107	517126	38.789	ng		98
37) 2-Methylnaphthalene	12.219	142	960146	37.845	ng		99
38) 1-Methylnaphthalene	12.443	142	1012844	37.539	ng		99
40) 1,2,4,5-Tetrachloroben...	12.590	216	550777	37.895	ng		100
41) Hexachlorocyclopentadiene	12.572	237	351819	40.074	ng		100
43) 2,4,6-Trichlorophenol	12.831	196	382393	38.972	ng		98

Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081425\
Data File : BP025400.D
Acq On : 14 Aug 2025 18:05
Operator : CG/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
ICVBP081425

Quant Time: Aug 14 18:24:25 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.901	196	420565	39.108	ng	99
46) 1,1'-Biphenyl	13.237	154	1376834	37.672	ng	99
47) 2-Chloronaphthalene	13.272	162	1072147	37.682	ng	99
48) 2-Nitroaniline	13.472	65	323995	39.081	ng	99
49) Acenaphthylene	14.125	152	1775899	37.720	ng	100
50) Dimethylphthalate	13.860	163	1406620	38.170	ng	100
51) 2,6-Dinitrotoluene	13.972	165	304562	39.211	ng	98
52) Acenaphthene	14.472	154	1039167	37.603	ng	99
53) 3-Nitroaniline	14.301	138	349791	40.027	ng	98
54) 2,4-Dinitrophenol	14.507	184	172743	41.646	ng	100
55) Dibenzofuran	14.813	168	1630744	37.324	ng	100
56) 4-Nitrophenol	14.619	139	284585	39.630	ng	99
57) 2,4-Dinitrotoluene	14.772	165	448143	40.439	ng	98
58) Fluorene	15.478	166	1275341	36.992	ng	98
59) 2,3,4,6-Tetrachlorophenol	15.036	232	371715	39.147	ng	99
60) Diethylphthalate	15.242	149	1415787	37.810	ng	99
61) 4-Chlorophenyl-phenyle...	15.472	204	627477	36.596	ng	99
62) 4-Nitroaniline	15.484	138	346865	38.717	ng	99
63) Azobenzene	15.766	77	1235242	38.526	ng	99
65) 4,6-Dinitro-2-methylph...	15.548	198	256111	39.721	ng	99
66) n-Nitrosodiphenylamine	15.684	169	1174244	37.227	ng	100
67) 4-Bromophenyl-phenylether	16.378	248	422072	37.101	ng	96
68) Hexachlorobenzene	16.501	284	488749	37.062	ng	98
69) Atrazine	16.660	200	449555	38.057	ng	100
70) Pentachlorophenol	16.854	266	322435	38.733	ng	98
71) Phenanthrene	17.254	178	2070873	36.445	ng	99
72) Anthracene	17.342	178	2179669	37.563	ng	100
73) Carbazole	17.619	167	2028595	37.116	ng	100
74) Di-n-butylphthalate	18.225	149	2528547	37.602	ng	100
75) Fluoranthene	19.342	202	2540417	37.481	ng	99
77) Benzidine	19.519	184	1529656	42.271	ng	99
78) Pyrene	19.713	202	2577810	37.404	ng	99
80) Butylbenzylphthalate	20.660	149	1199445	38.401	ng	98
81) Benzo(a)anthracene	21.636	228	2583866	36.950	ng	99
82) 3,3'-Dichlorobenzidine	21.554	252	1002597	38.038	ng	99
83) Chrysene	21.701	228	2446197	37.353	ng	99
84) Bis(2-ethylhexyl)phtha...	21.583	149	1780746	38.729	ng	100
85) Di-n-octyl phthalate	22.877	149	2998528	37.915	ng	100
87) Indeno(1,2,3-cd)pyrene	28.877	276	3267965	37.119	ng	94
88) Benzo(b)fluoranthene	23.971	252	2616701	36.964	ng	100
89) Benzo(k)fluoranthene	24.042	252	2653905	37.464	ng	99
90) Benzo(a)pyrene	24.871	252	2560692	37.160	ng	100
91) Dibenzo(a,h)anthracene	28.948	278	2697336	37.490	ng	99
92) Benzo(g,h,i)perylene	30.089	276	2632085	37.216	ng	98

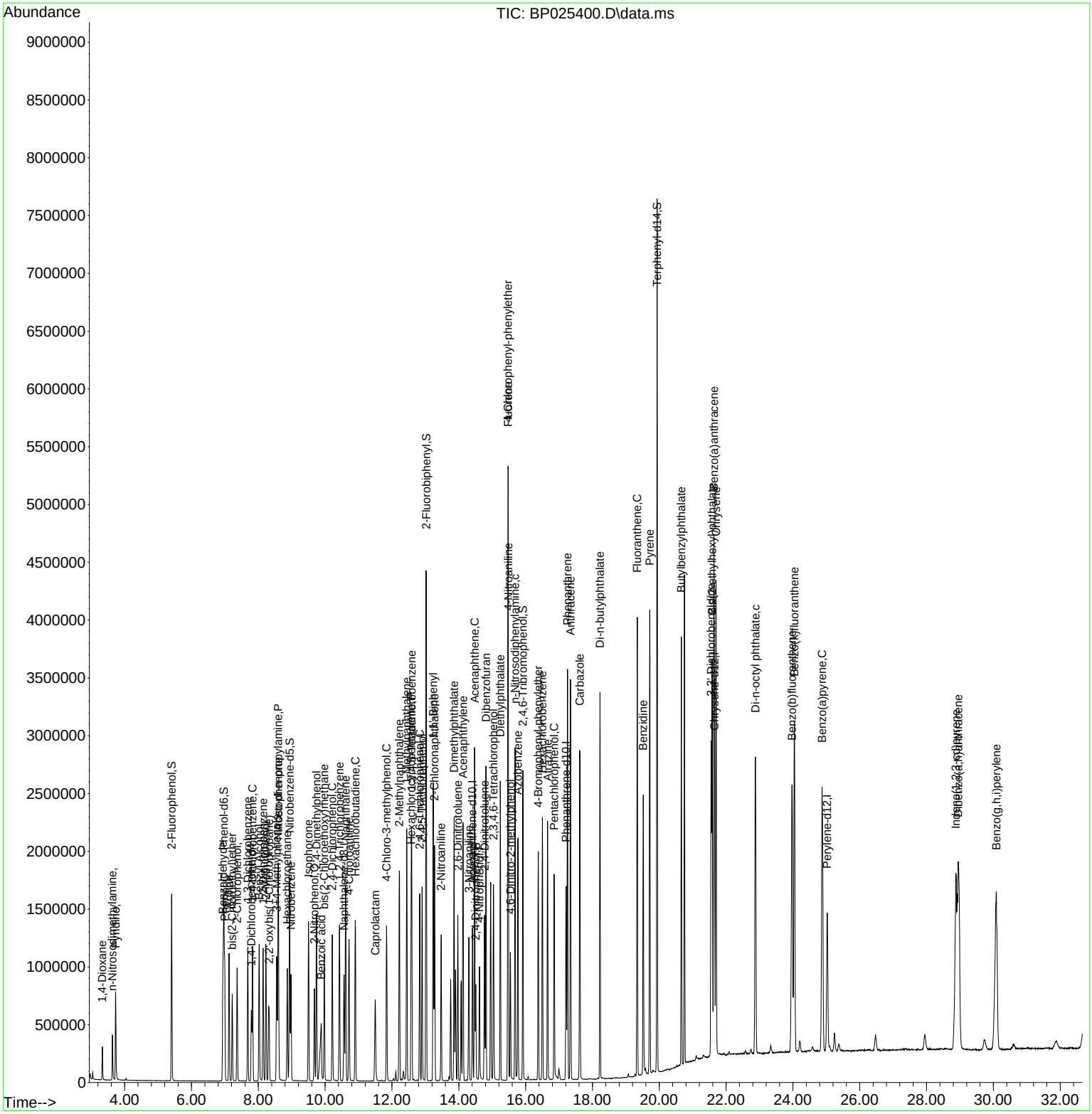
(#) = qualifier out of range (m) = manual integration (+) = signals summed

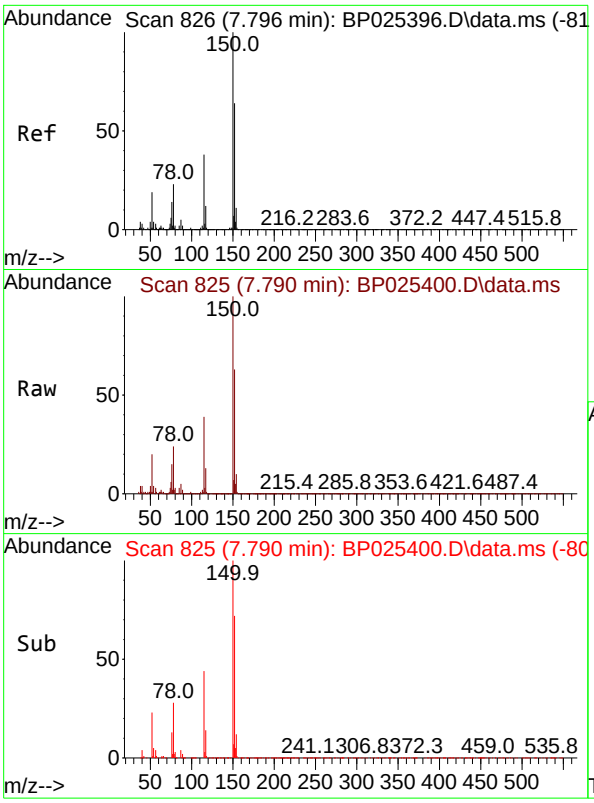
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081425\
Data File : BP025400.D
Acq On : 14 Aug 2025 18:05
Operator : CG/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
ICVBP081425

Quant Time: Aug 14 18:24:25 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration



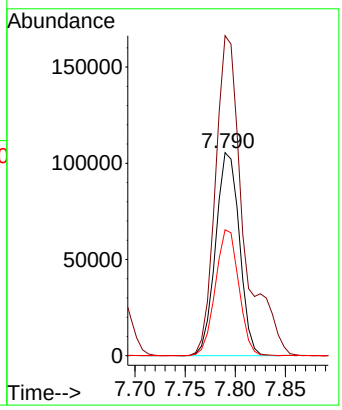


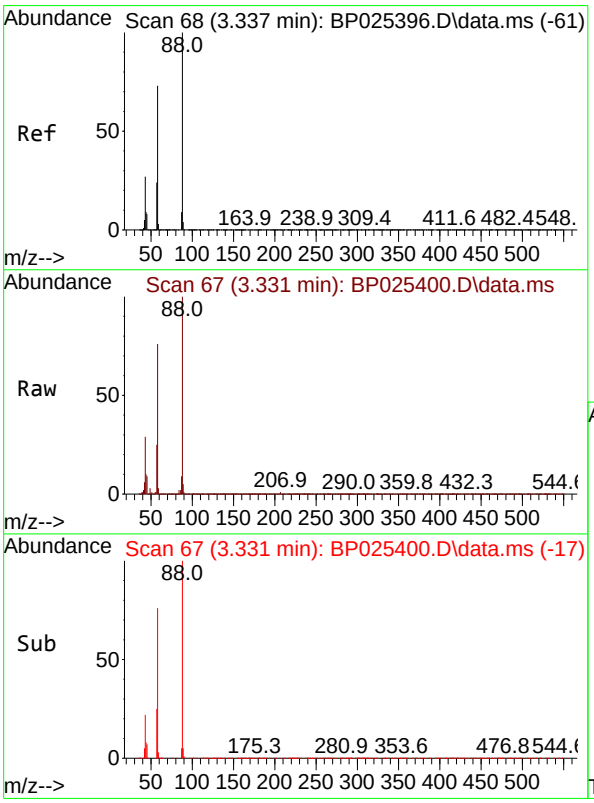
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.790 min Scan# 8
Delta R.T. -0.006 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Instrument :
BNA_P
ClientSampleId :
ICVBP081425

Tgt Ion:152 Resp: 174007

Ion	Ratio	Lower	Upper
152	100		
150	157.6	125.9	188.9
115	62.0	48.5	72.7

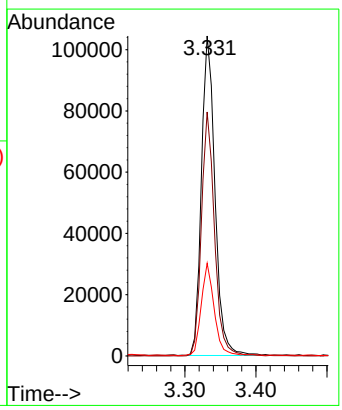


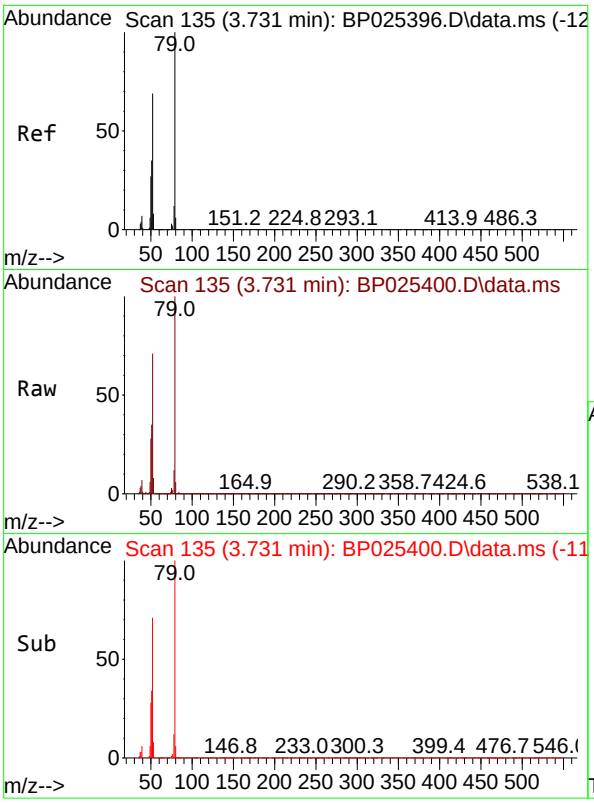


#2
1,4-Dioxane
Concen: 33.792 ng
RT: 3.331 min Scan# 67
Delta R.T. -0.006 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion: 88 Resp: 138687

Ion	Ratio	Lower	Upper
88	100		
58	73.7	59.2	88.8
43	27.9	21.7	32.5



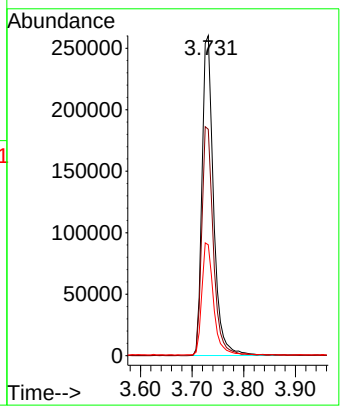


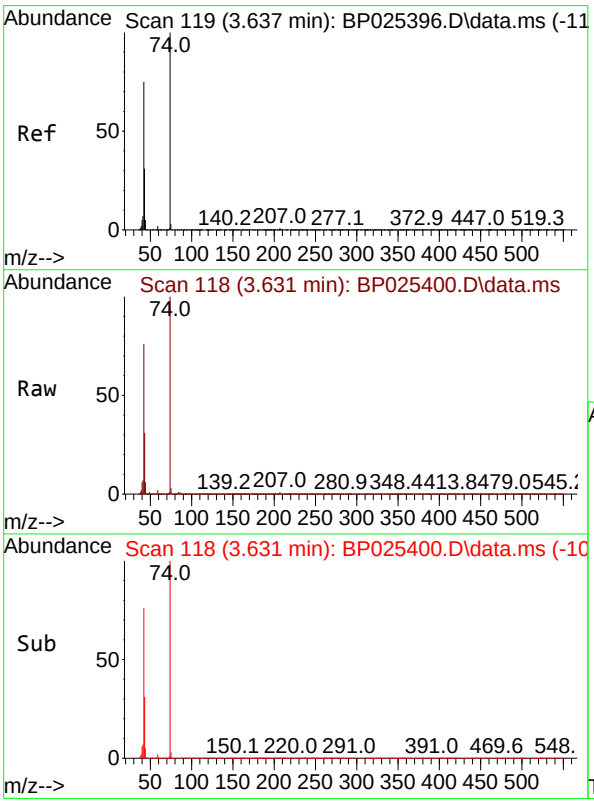
#3
Pyridine
Concen: 35.901 ng
RT: 3.731 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Instrument :
BNA_P
ClientSampleId :
ICVBP081425

Tgt Ion: 79 Resp: 403298

Ion	Ratio	Lower	Upper
79	100		
52	70.8	55.5	83.3
51	34.7	28.3	42.5

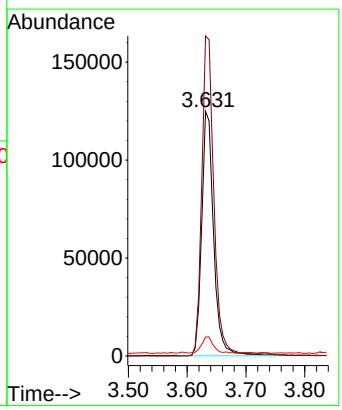


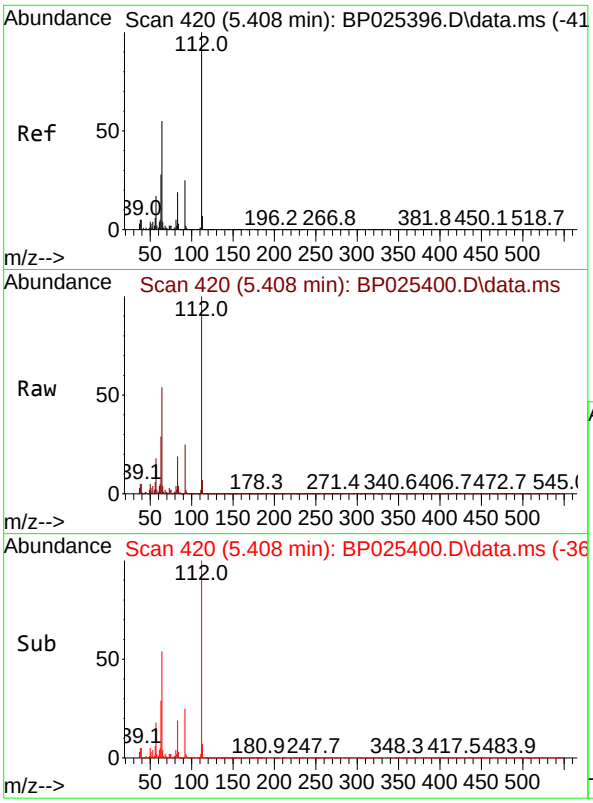


#4
n-Nitrosodimethylamine
Concen: 38.115 ng
RT: 3.631 min Scan# 118
Delta R.T. -0.006 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion: 42 Resp: 176521

Ion	Ratio	Lower	Upper
42	100		
74	130.8	107.0	160.4
44	7.7	6.2	9.4



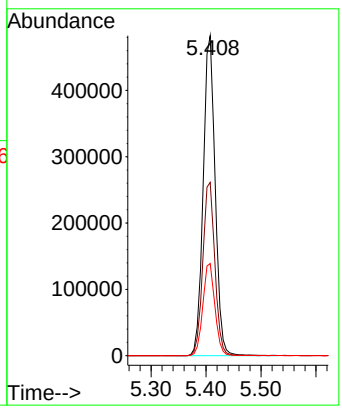


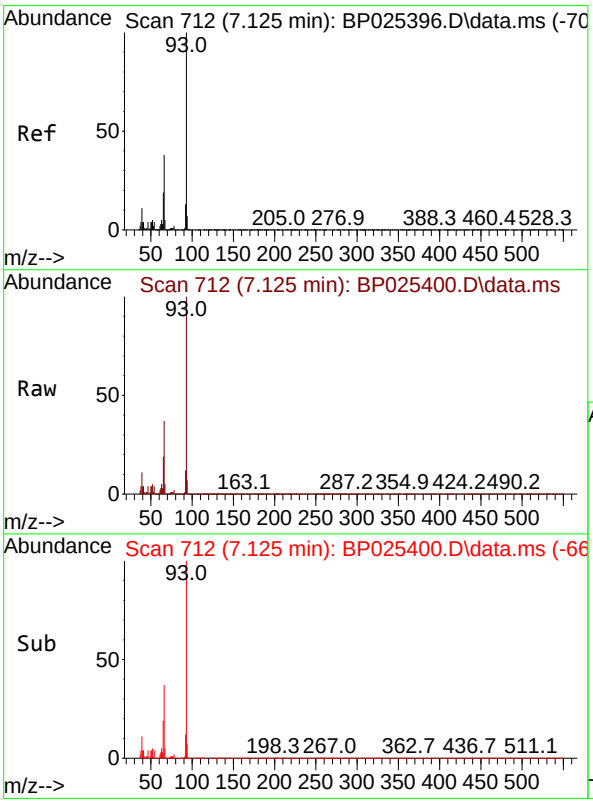
#5
2-Fluorophenol
Concen: 69.430 ng
RT: 5.408 min Scan# 4
Delta R.T. 0.000 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Instrument :
BNA_P
ClientSampleId :
ICVBP081425

Tgt Ion:112 Resp: 727486

Ion	Ratio	Lower	Upper
112	100		
64	54.2	43.8	65.8
63	28.8	22.7	34.1

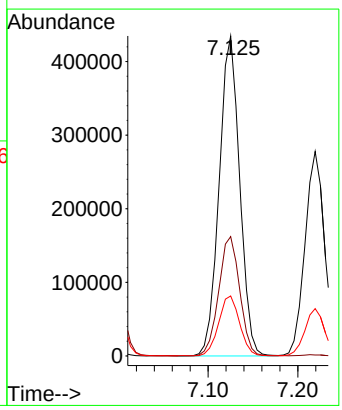


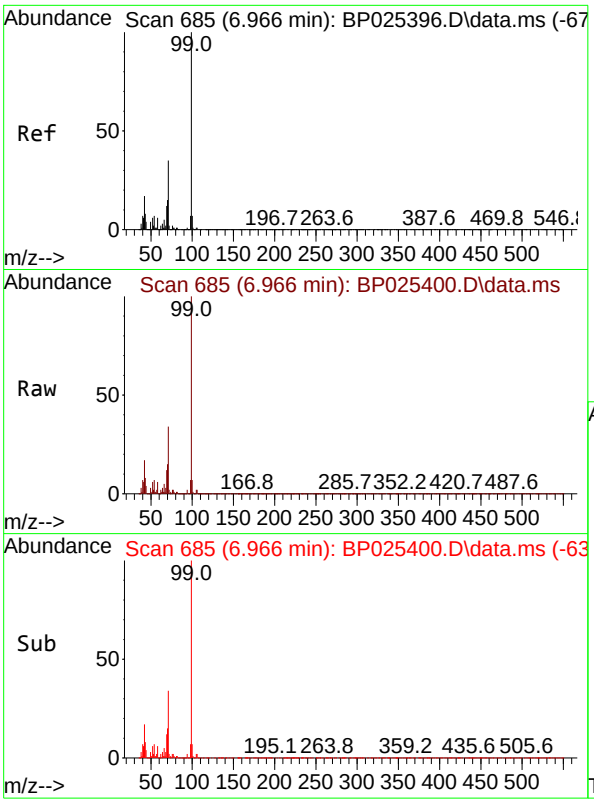


#6
Aniline
Concen: 38.147 ng
RT: 7.125 min Scan# 712
Delta R.T. 0.000 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion: 93 Resp: 690437

Ion	Ratio	Lower	Upper
93	100		
66	37.3	30.4	45.6
65	18.7	15.3	22.9



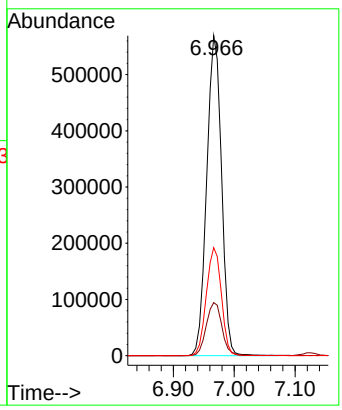


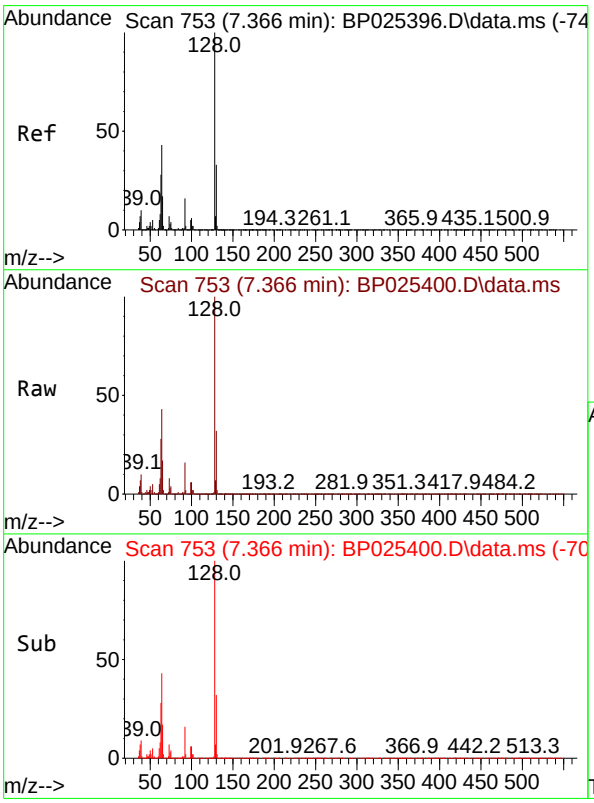
#7
Phenol-d6
Concen: 71.663 ng
RT: 6.966 min Scan# 6
Delta R.T. 0.000 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Instrument :
BNA_P
ClientSampleId :
ICVBP081425

Tgt Ion: 99 Resp: 962695

Ion	Ratio	Lower	Upper
99	100		
42	16.6	13.7	20.5
71	33.7	28.2	42.4

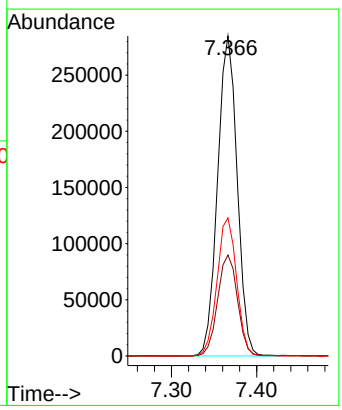


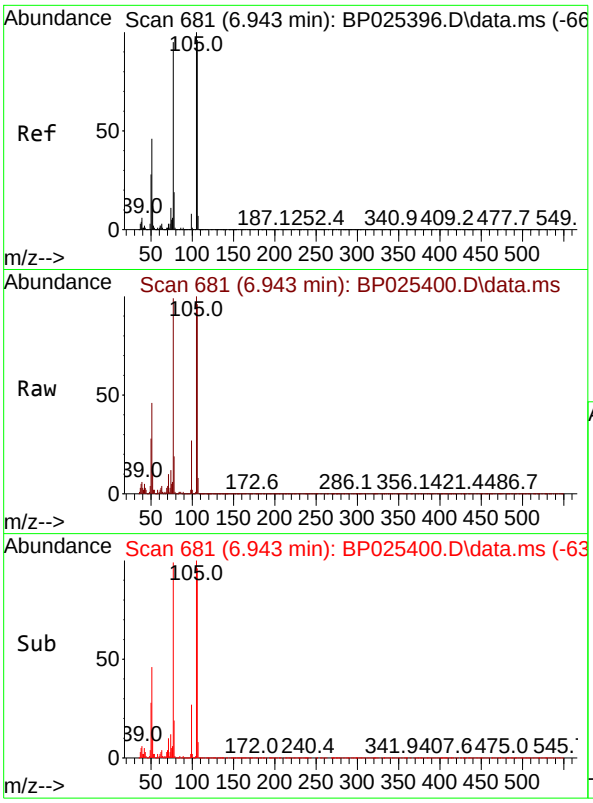


#8
2-Chlorophenol
Concen: 38.501 ng
RT: 7.366 min Scan# 753
Delta R.T. 0.000 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:128 Resp: 455230

Ion	Ratio	Lower	Upper
128	100		
130	31.6	12.6	52.6
64	43.2	23.4	63.4



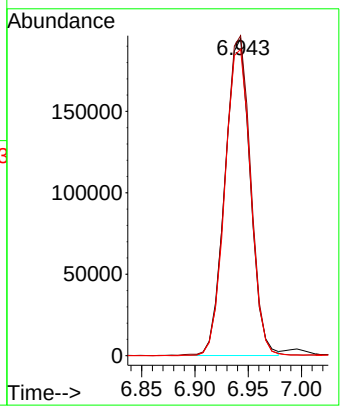


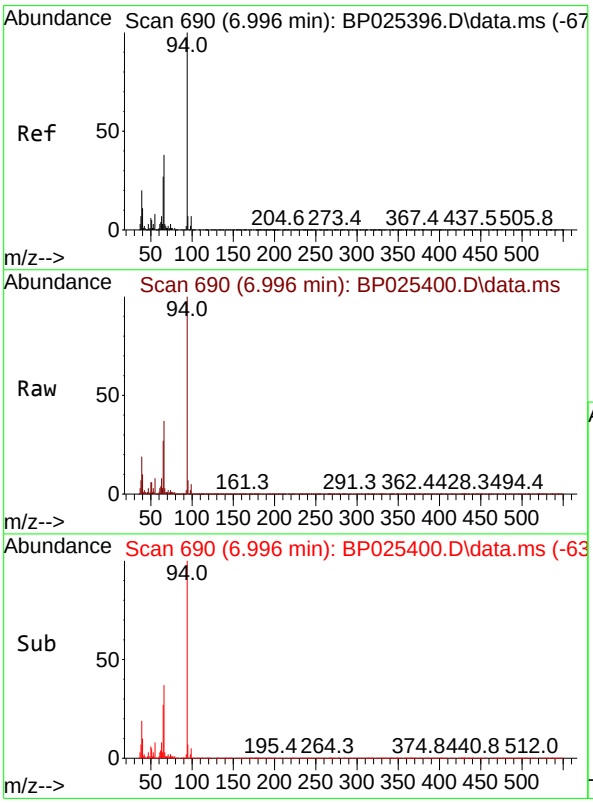
#9
Benzaldehyde
Concen: 34.142 ng
RT: 6.943 min Scan# 6
Delta R.T. 0.000 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Instrument :
BNA_P
ClientSampleId :
ICVBP081425

Tgt Ion: 77 Resp: 321335

Ion	Ratio	Lower	Upper
77	100		
105	100.9	84.8	124.8
106	96.6	80.5	120.5

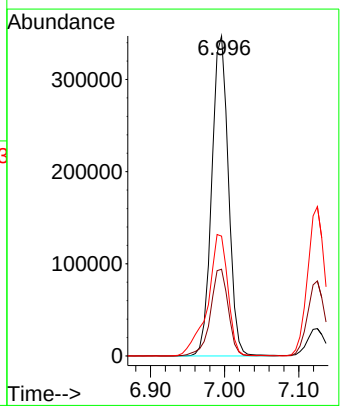


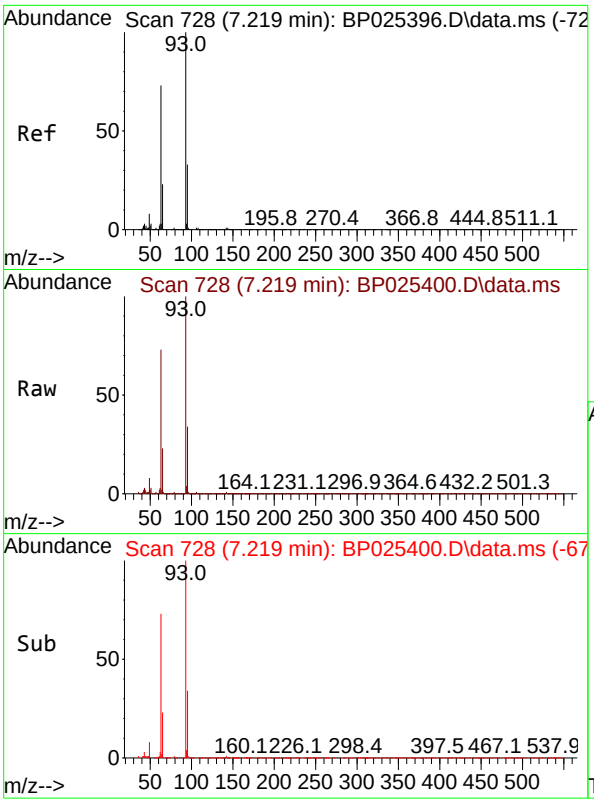


#10
Phenol
Concen: 38.388 ng
RT: 6.996 min Scan# 690
Delta R.T. 0.000 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion: 94 Resp: 541123

Ion	Ratio	Lower	Upper
94	100		
65	27.1	6.8	46.8
66	37.5	18.2	58.2



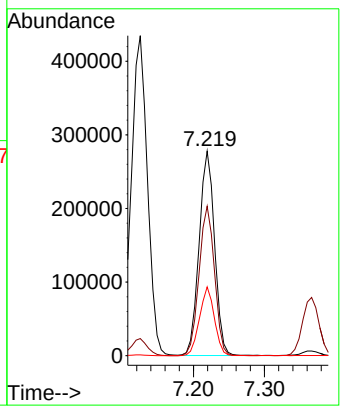


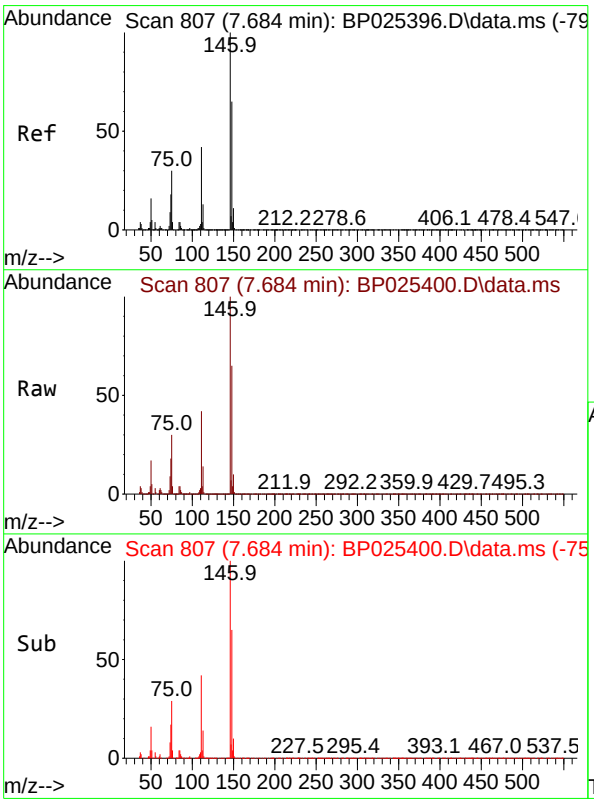
#11
bis(2-Chloroethyl)ether
Concen: 38.348 ng
RT: 7.219 min Scan# 7
Delta R.T. 0.000 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Instrument :
BNA_P
ClientSampleId :
ICVBP081425

Tgt Ion: 93 Resp: 421318

Ion	Ratio	Lower	Upper
93	100		
63	73.1	52.6	92.6
95	33.6	12.7	52.7

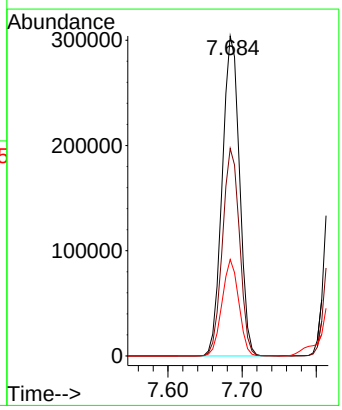


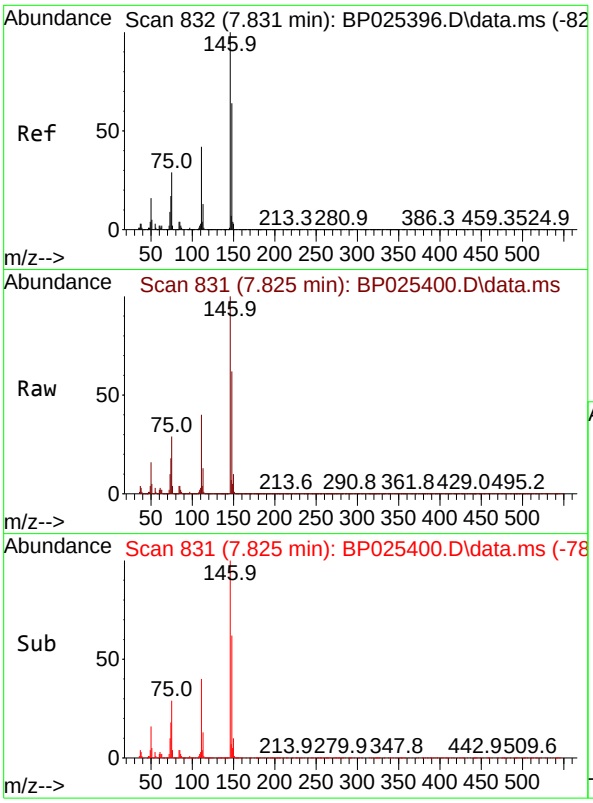


#12
1,3-Dichlorobenzene
Concen: 37.738 ng
RT: 7.684 min Scan# 807
Delta R.T. 0.000 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:146 Resp: 492014

Ion	Ratio	Lower	Upper
146	100		
148	64.8	51.9	77.9
75	30.1	23.7	35.5



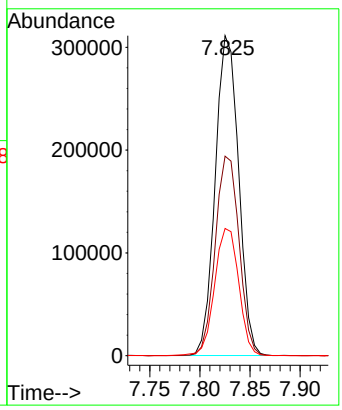


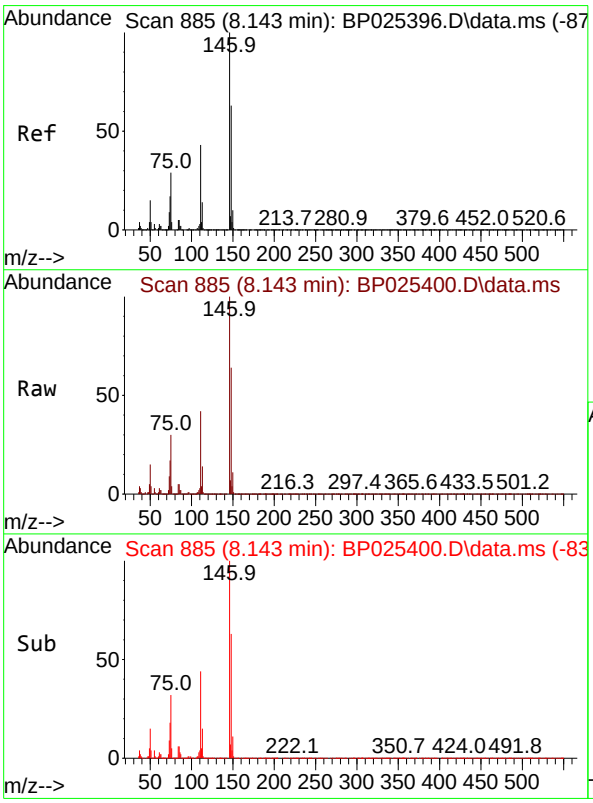
#13
1,4-Dichlorobenzene
Concen: 37.890 ng
RT: 7.825 min Scan# 8
Delta R.T. -0.006 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Instrument :
BNA_P
ClientSampleId :
ICVBP081425

Tgt Ion:146 Resp: 504919

Ion	Ratio	Lower	Upper
146	100		
148	62.3	51.6	77.4
111	39.8	33.4	50.0

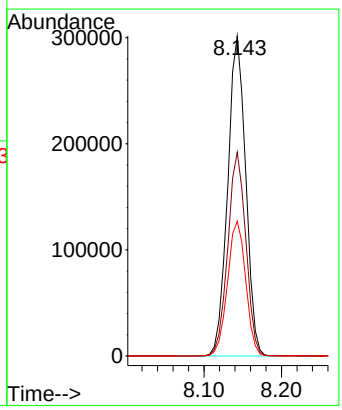


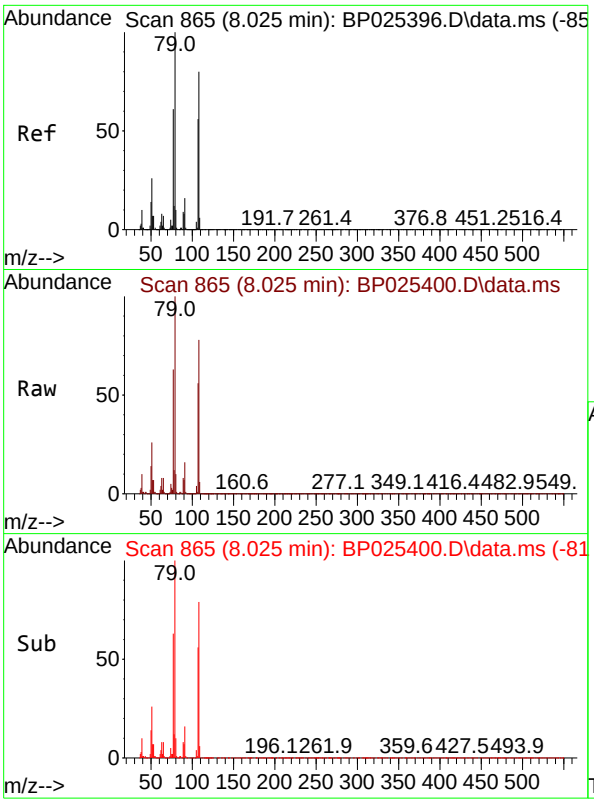


#14
1,2-Dichlorobenzene
Concen: 37.818 ng
RT: 8.143 min Scan# 885
Delta R.T. 0.000 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:146 Resp: 487845

Ion	Ratio	Lower	Upper
146	100		
148	63.7	50.4	75.6
111	42.1	34.5	51.7



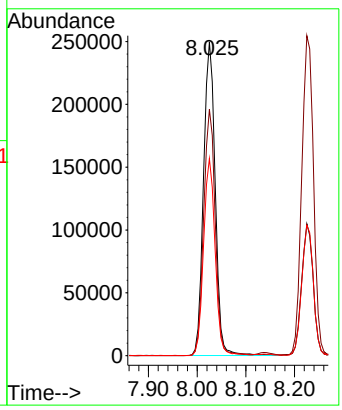


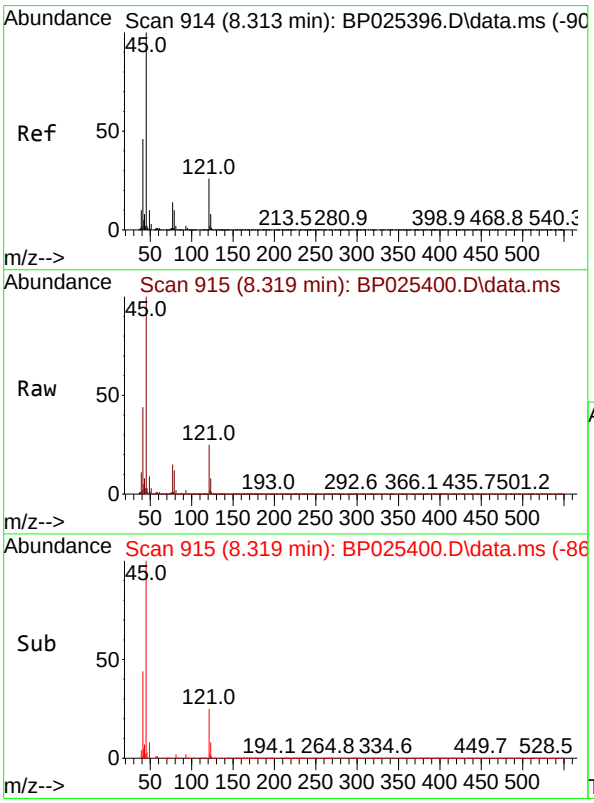
#15
Benzyl Alcohol
Concen: 39.025 ng
RT: 8.025 min Scan# 8
Delta R.T. 0.000 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Instrument :
BNA_P
ClientSampleId :
ICVBP081425

Tgt Ion: 79 Resp: 416544

Ion	Ratio	Lower	Upper
79	100		
108	78.5	63.8	95.6
77	62.8	49.0	73.4

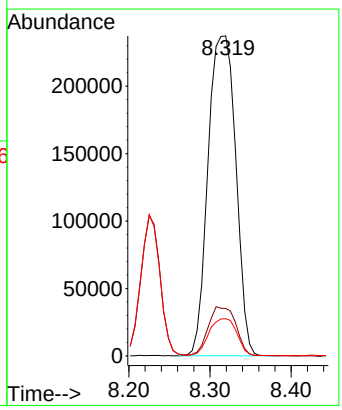


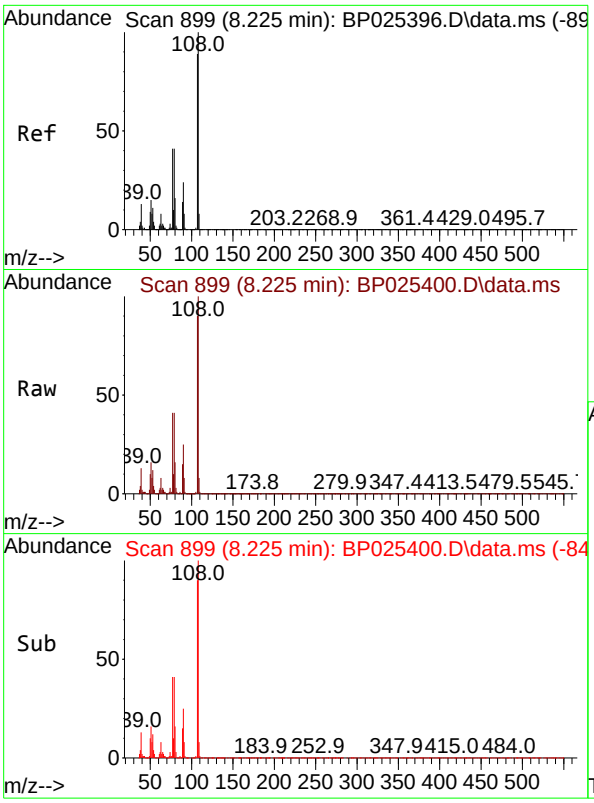


#16
2,2'-oxybis(1-Chloropropane)
Concen: 38.271 ng
RT: 8.319 min Scan# 915
Delta R.T. 0.006 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion: 45 Resp: 563276

Ion	Ratio	Lower	Upper
45	100		
77	14.8	0.0	35.3
79	11.7	0.0	31.8



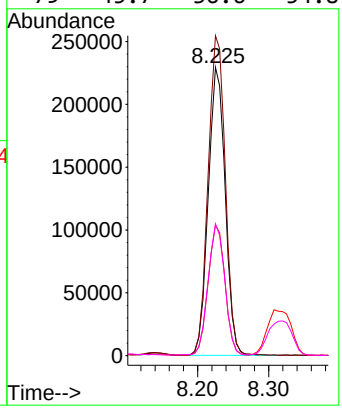


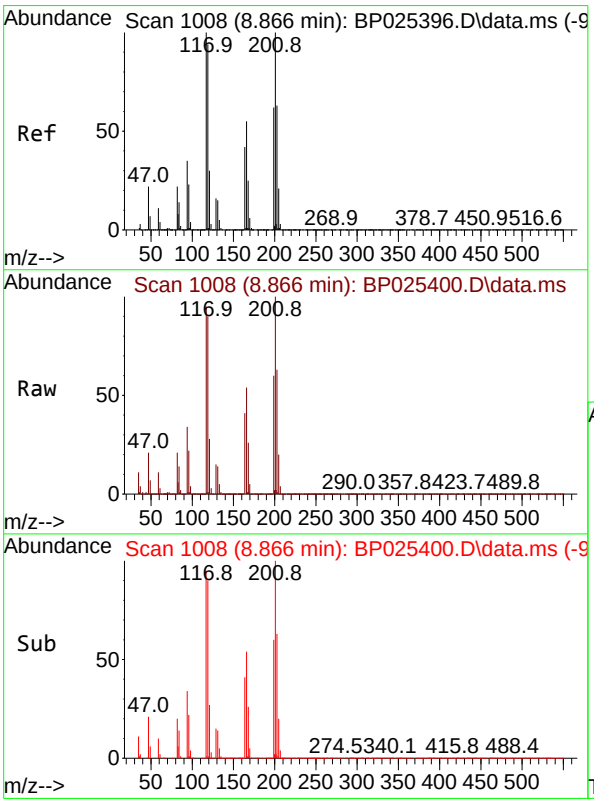
#17
2-Methylphenol
Concen: 38.877 ng
RT: 8.225 min Scan# 8
Delta R.T. 0.000 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Instrument :
BNA_P
ClientSampleId :
ICVBP081425

Tgt Ion:107 Resp: 380608

Ion	Ratio	Lower	Upper
107	100		
108	111.0	89.4	134.0
77	45.3	36.3	54.5
79	45.7	36.6	54.8

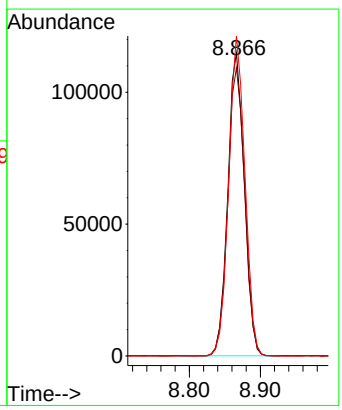


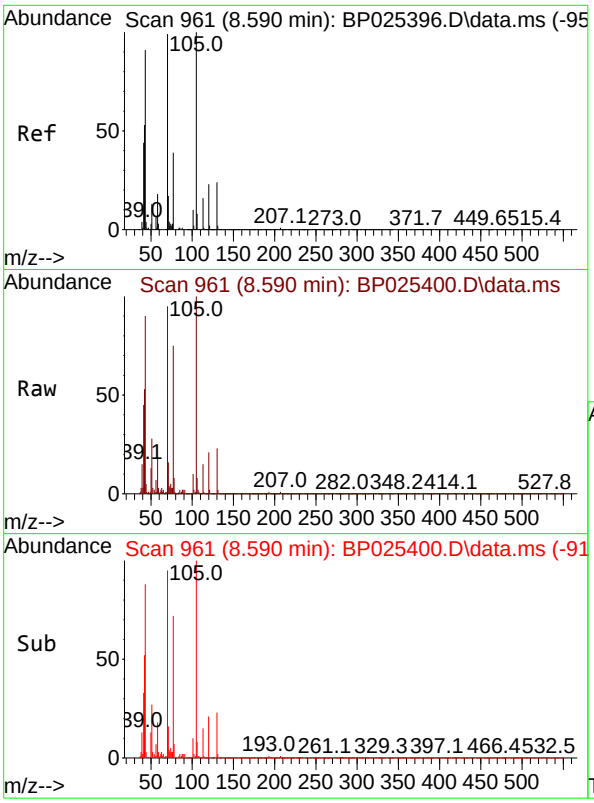


#18
Hexachloroethane
Concen: 38.103 ng
RT: 8.866 min Scan# 1008
Delta R.T. 0.000 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:117 Resp: 186691

Ion	Ratio	Lower	Upper
117	100		
119	95.0	75.1	112.7
201	105.6	80.1	120.1



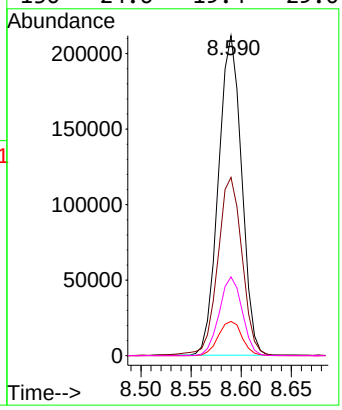


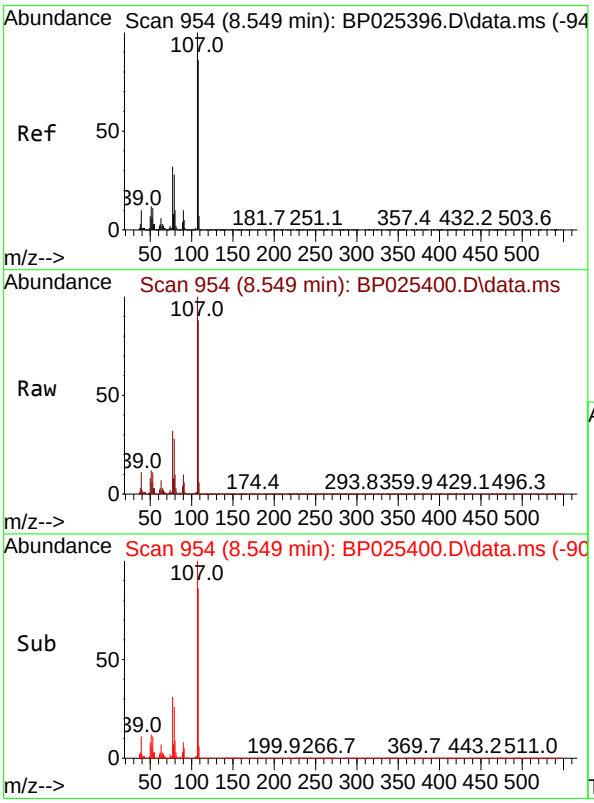
#19
n-Nitroso-di-n-propylamine
Concen: 38.270 ng
RT: 8.590 min Scan# 9
Delta R.T. 0.000 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Instrument :
BNA_P
ClientSampleId :
ICVBP081425

Tgt Ion: 70 Resp: 340533

Ion	Ratio	Lower	Upper
70	100		
42	55.7	43.8	65.6
101	10.7	8.5	12.7
130	24.6	19.4	29.0

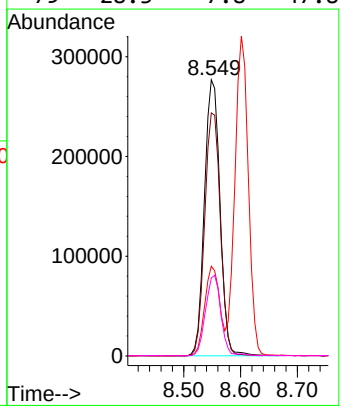


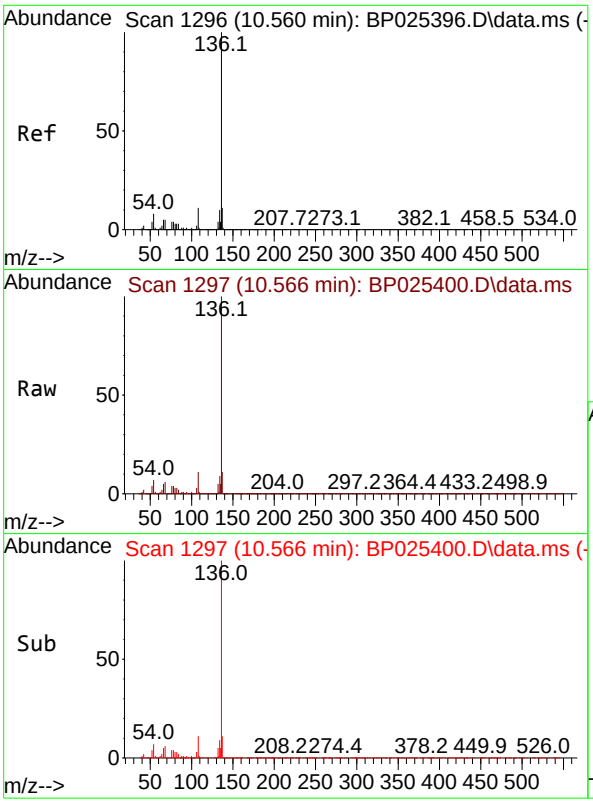


#20
3+4-Methylphenols
Concen: 38.620 ng
RT: 8.549 min Scan# 954
Delta R.T. 0.000 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:107 Resp: 524095

Ion	Ratio	Lower	Upper
107	100		
108	88.0	66.3	106.3
77	32.5	12.3	52.3
79	28.3	7.8	47.8



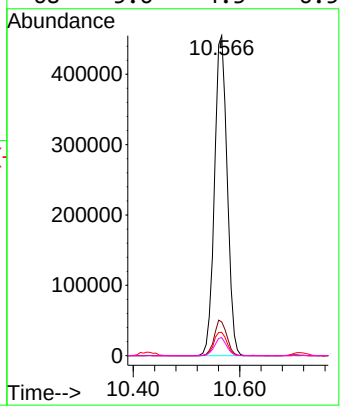


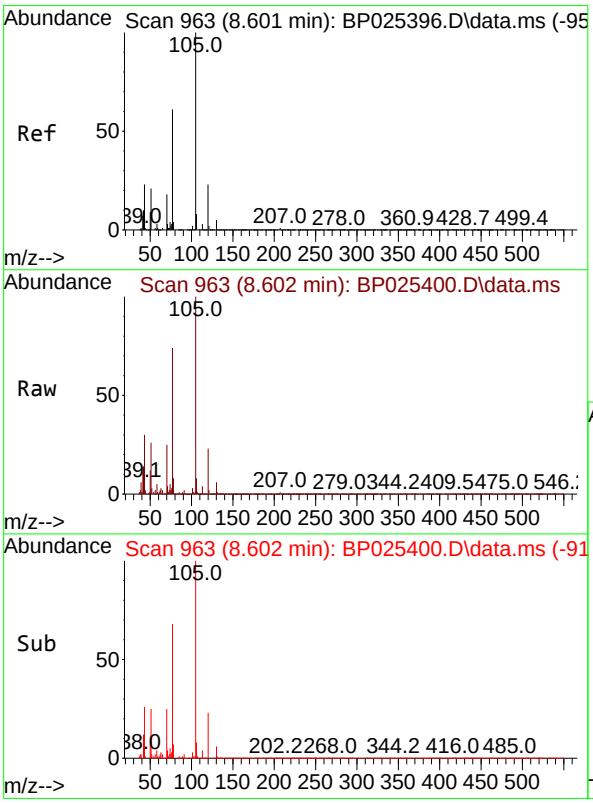
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.566 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Instrument :
BNA_P
ClientSampleId :
ICVBP081425

Tgt Ion:136 Resp: 750079

Ion	Ratio	Lower	Upper
136	100		
137	10.6	9.2	13.8
54	7.3	6.0	9.0
68	5.6	4.3	6.5

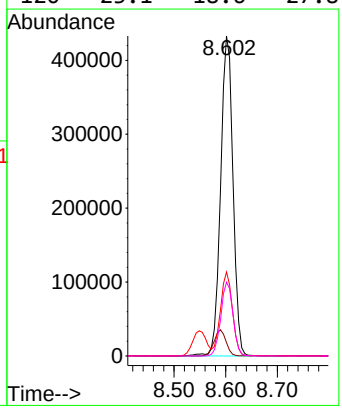


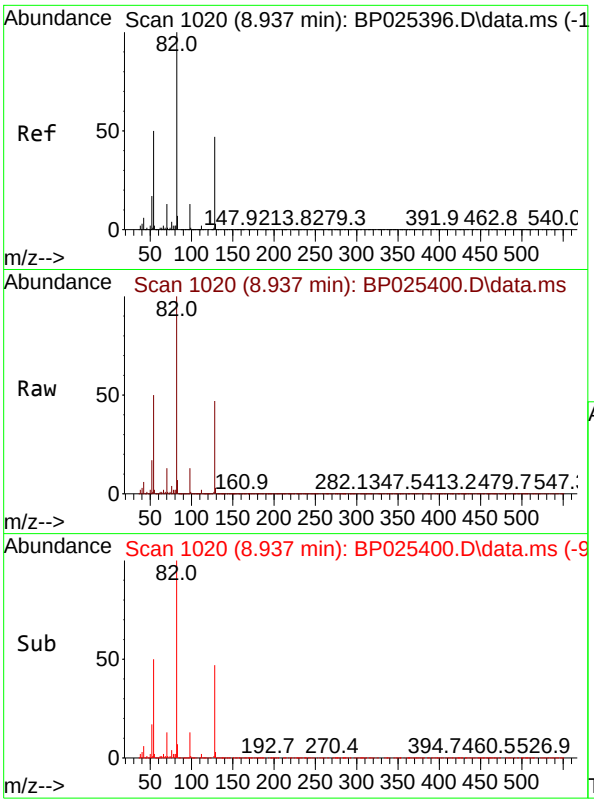


#22
Acetophenone
Concen: 38.216 ng
RT: 8.602 min Scan# 963
Delta R.T. 0.000 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:105 Resp: 718869

Ion	Ratio	Lower	Upper
105	100		
71	4.2	2.6	4.0#
51	26.2	20.6	30.8
120	23.1	18.6	27.8



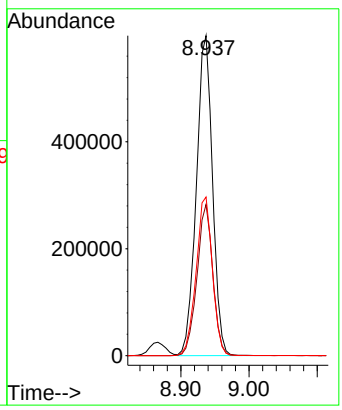


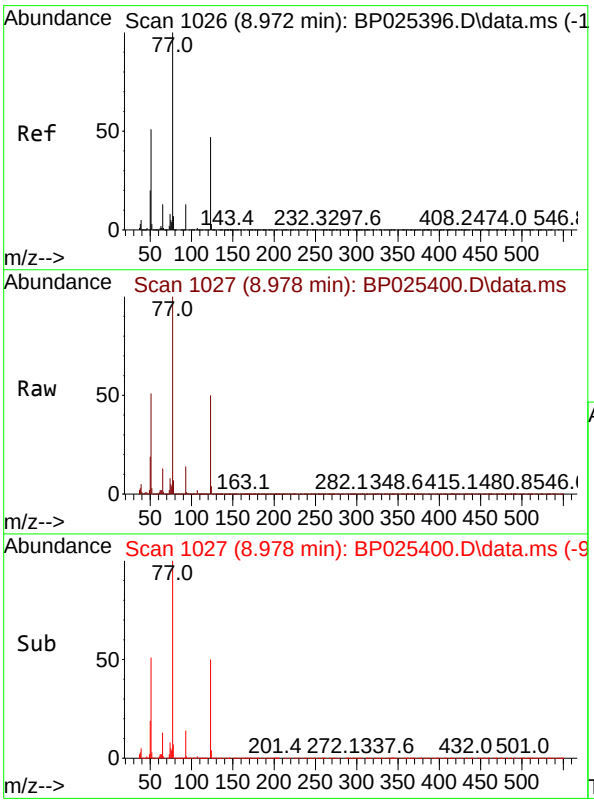
#23
Nitrobenzene-d5
Concen: 66.391 ng
RT: 8.937 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Instrument :
BNA_P
ClientSampleId :
ICVBP081425

Tgt Ion: 82 Resp: 984441

Ion	Ratio	Lower	Upper
82	100		
128	47.3	37.7	56.5
54	49.6	39.8	59.6

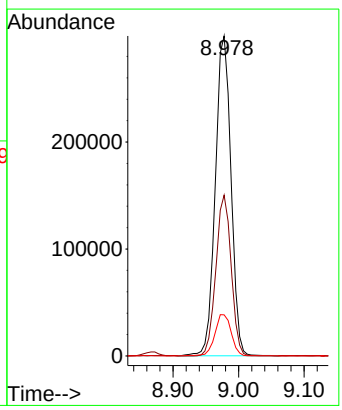


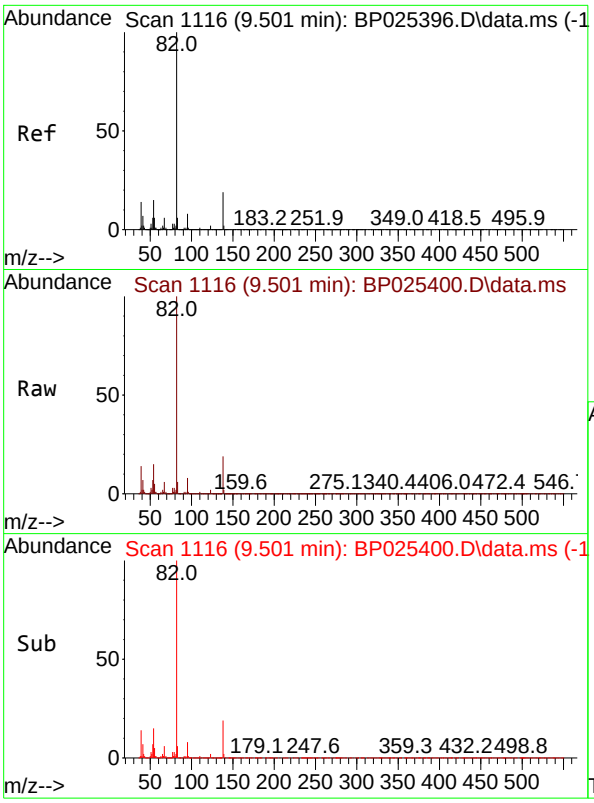


#24
Nitrobenzene
Concen: 37.313 ng
RT: 8.978 min Scan# 1027
Delta R.T. 0.006 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion: 77 Resp: 494466

Ion	Ratio	Lower	Upper
77	100		
123	50.3	38.6	58.0
65	12.9	10.6	15.8



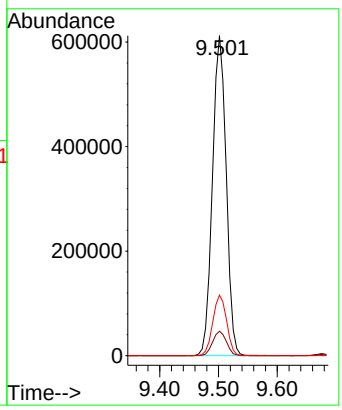


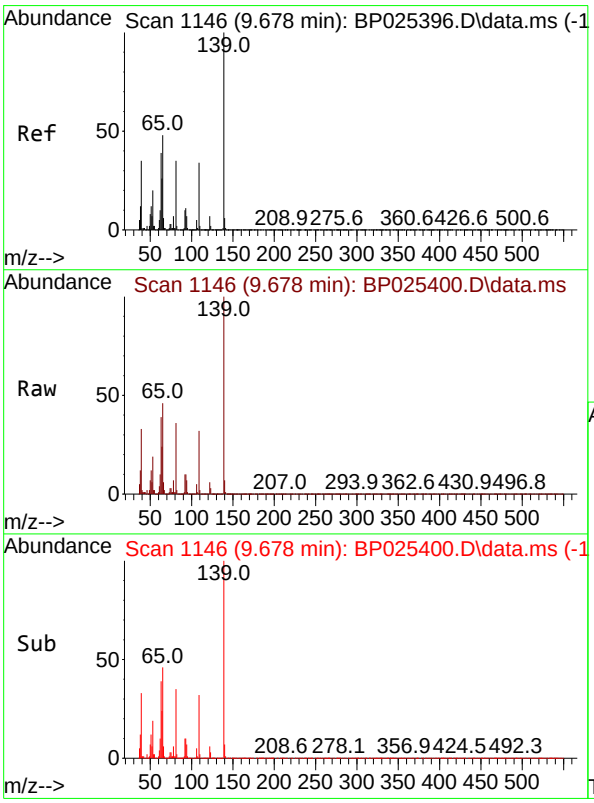
#25
Isophorone
Concen: 37.855 ng
RT: 9.501 min Scan# 11
Delta R.T. 0.000 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Instrument :
BNA_P
ClientSampleId :
ICVBP081425

Tgt Ion: 82 Resp: 993378

Ion	Ratio	Lower	Upper
82	100		
95	7.7	6.4	9.6
138	18.9	15.4	23.0

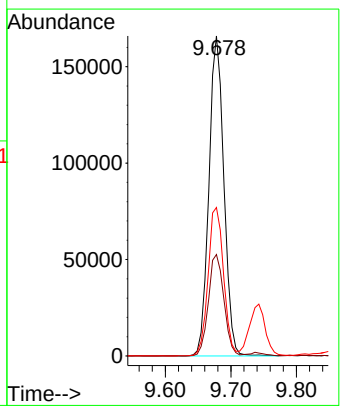


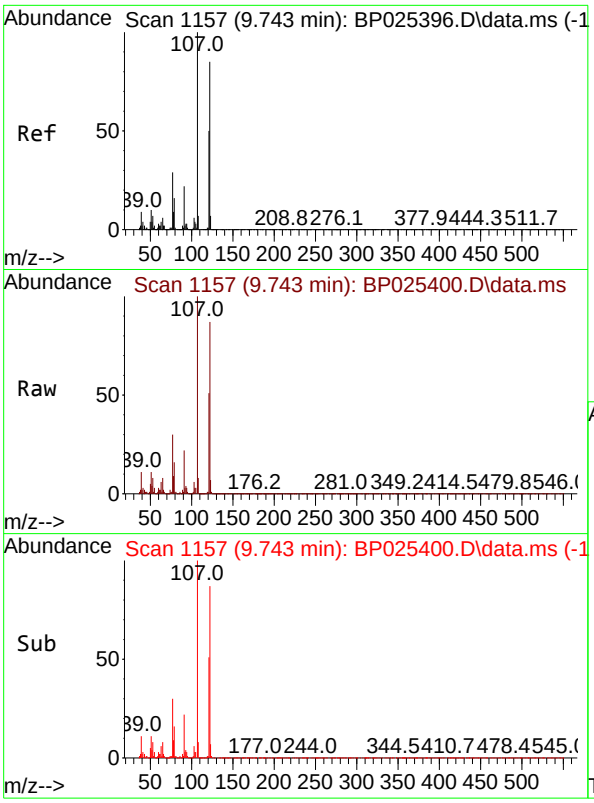


#26
2-Nitrophenol
Concen: 38.722 ng
RT: 9.678 min Scan# 1146
Delta R.T. 0.000 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:139 Resp: 263348

Ion	Ratio	Lower	Upper
139	100		
109	31.7	26.9	40.3
65	46.4	38.3	57.5



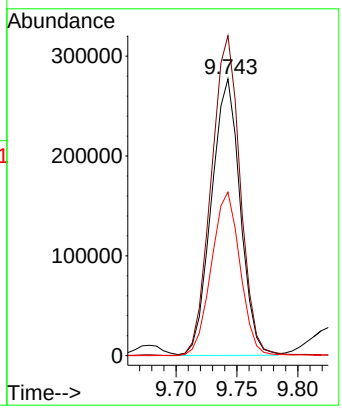


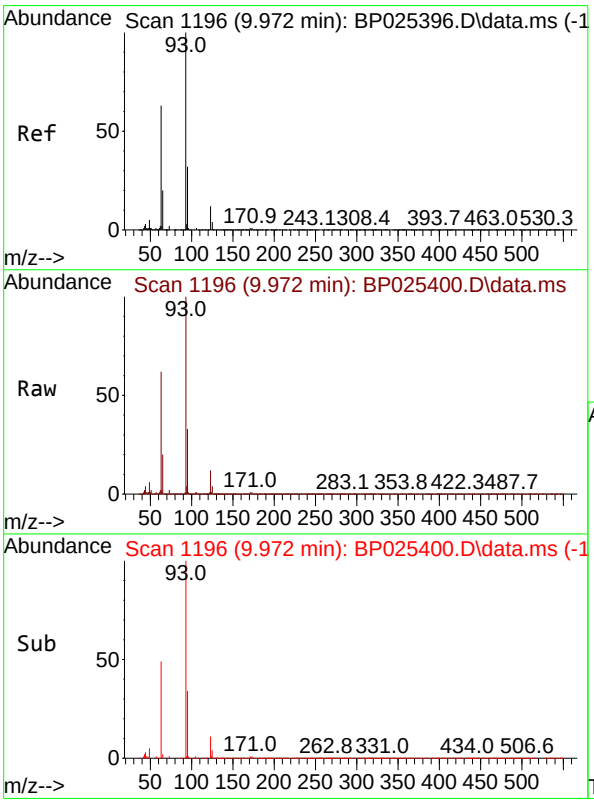
#27
2,4-Dimethylphenol
Concen: 38.910 ng
RT: 9.743 min Scan# 11
Delta R.T. 0.000 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Instrument :
BNA_P
ClientSampleId :
ICVBP081425

Tgt Ion:122 Resp: 455078

Ion	Ratio	Lower	Upper
122	100		
107	115.6	93.7	140.5
121	59.1	46.6	69.8

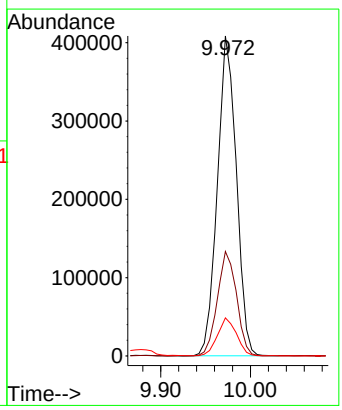


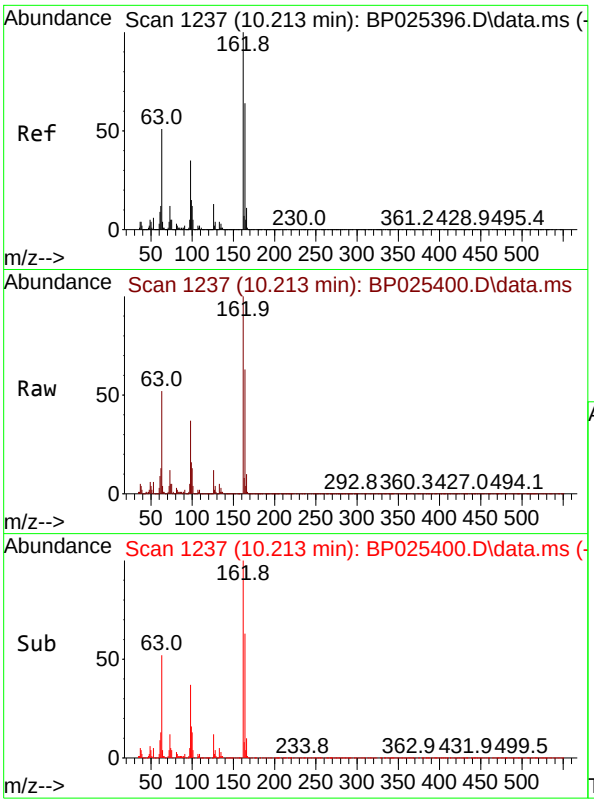


#28
bis(2-Chloroethoxy)methane
Concen: 37.816 ng
RT: 9.972 min Scan# 1196
Delta R.T. 0.000 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion: 93 Resp: 599862

Ion	Ratio	Lower	Upper
93	100		
95	32.7	25.4	38.0
123	11.9	9.4	14.0



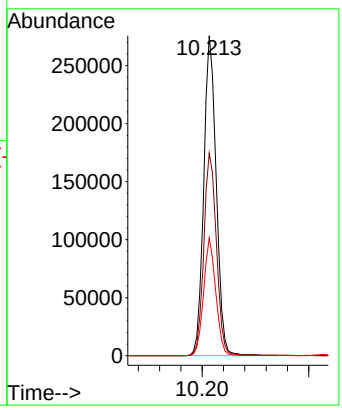


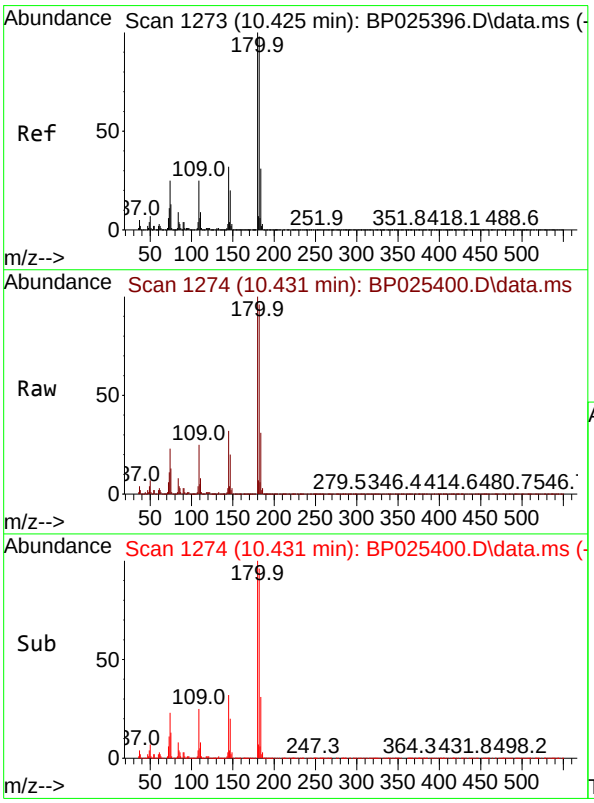
#29
2,4-Dichlorophenol
Concen: 38.649 ng
RT: 10.213 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Instrument :
BNA_P
ClientSampleId :
ICVBP081425

Tgt Ion:162 Resp: 449034

Ion	Ratio	Lower	Upper
162	100		
164	63.3	44.4	84.4
98	36.9	14.9	54.9

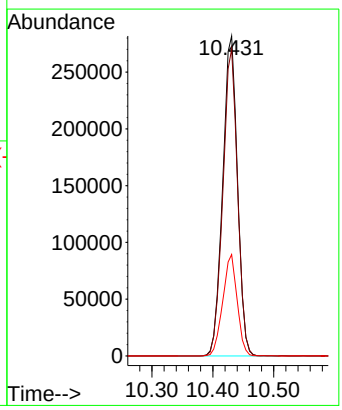


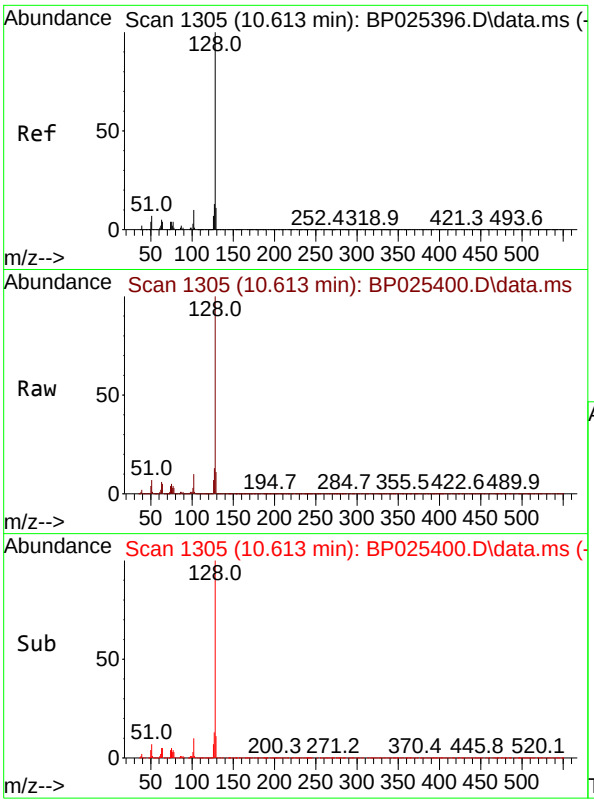


#30
1,2,4-Trichlorobenzene
Concen: 37.231 ng
RT: 10.431 min Scan# 1274
Delta R.T. 0.006 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:180 Resp: 474183

Ion	Ratio	Lower	Upper
180	100		
182	95.9	78.0	117.0
145	31.7	25.9	38.9



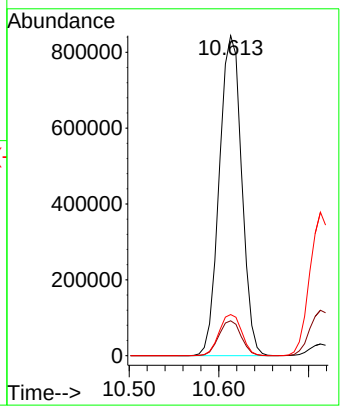


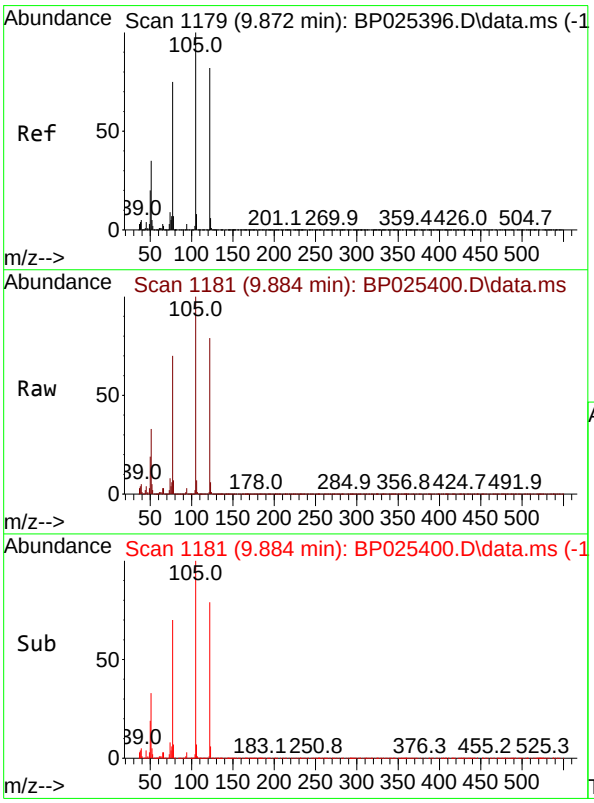
#31
Naphthalene
Concen: 37.431 ng
RT: 10.613 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Instrument :
BNA_P
ClientSampleId :
ICVBP081425

Tgt Ion:128 Resp: 1459279

Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.6	13.0
127	12.8	10.7	16.1

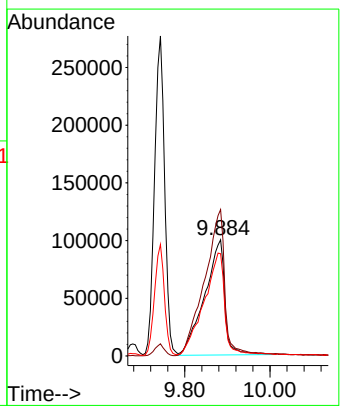


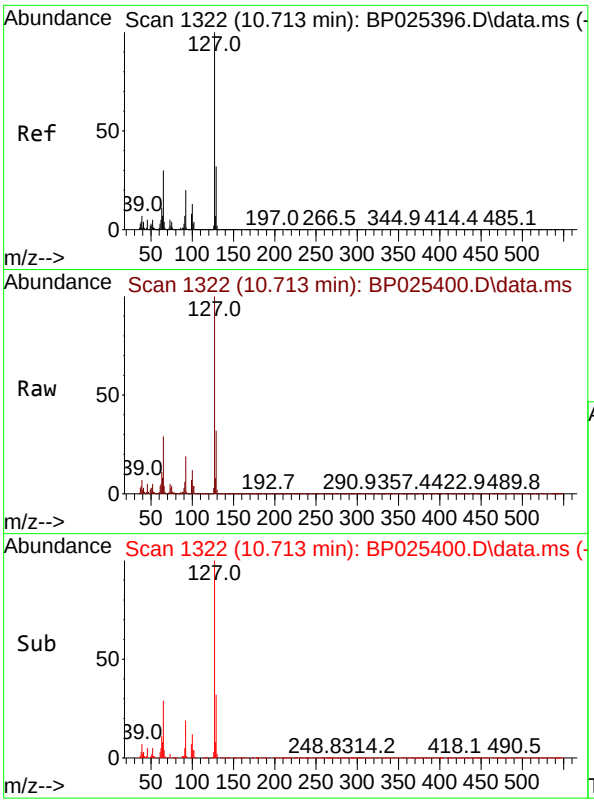


#32
Benzoic acid
Concen: 38.242 ng
RT: 9.884 min Scan# 1181
Delta R.T. 0.012 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:122 Resp: 330207

Ion	Ratio	Lower	Upper
122	100		
105	126.0	100.6	140.6
77	88.0	71.5	111.5



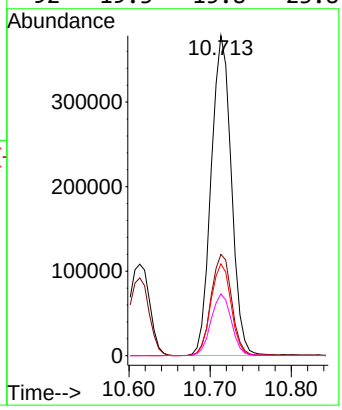


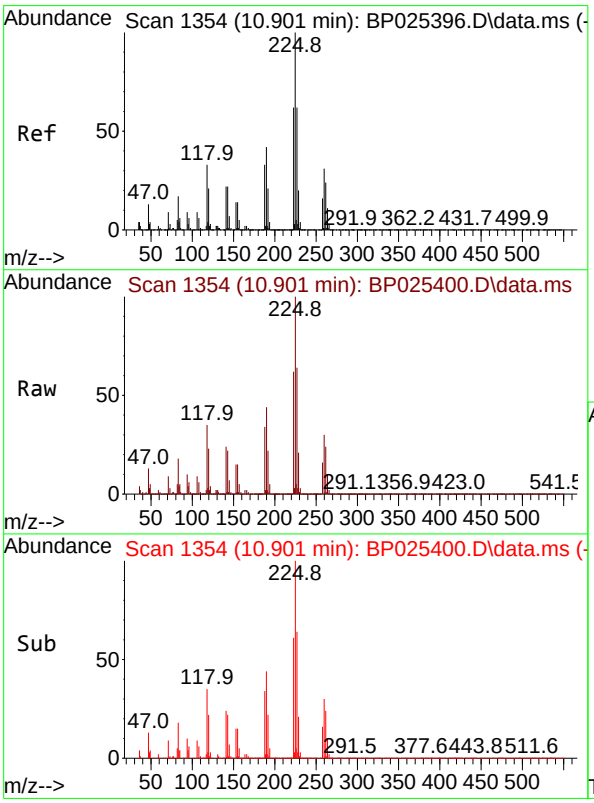
#33
4-Chloroaniline
Concen: 38.043 ng
RT: 10.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Instrument :
BNA_P
ClientSampleId :
ICVBP081425

Tgt Ion:127 Resp: 655135

Ion	Ratio	Lower	Upper
127	100		
129	31.7	25.4	38.2
65	28.7	23.8	35.6
92	19.3	15.8	23.8

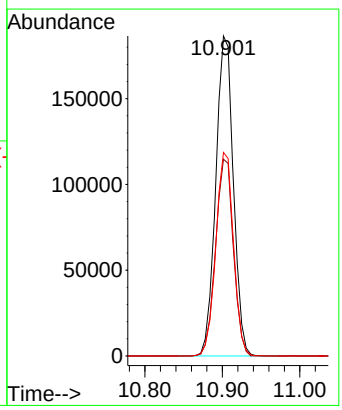


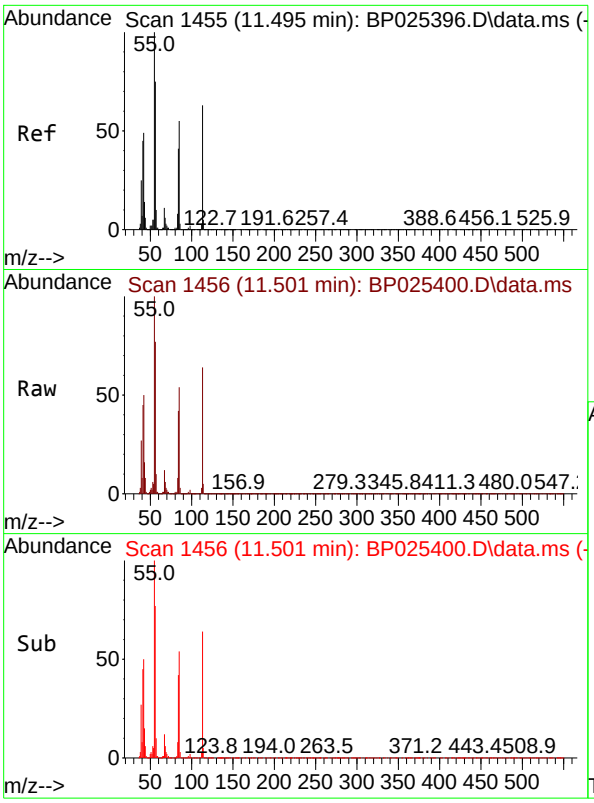


#34
Hexachlorobutadiene
Concen: 37.031 ng
RT: 10.901 min Scan# 1354
Delta R.T. 0.000 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:225 Resp: 293728

Ion	Ratio	Lower	Upper
225	100		
223	61.5	50.0	75.0
227	63.6	49.7	74.5



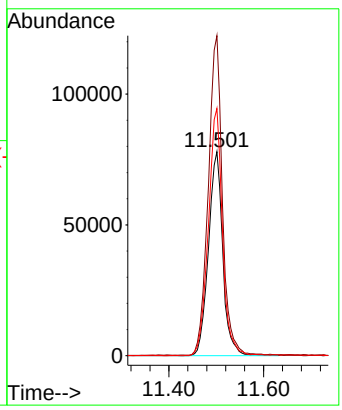


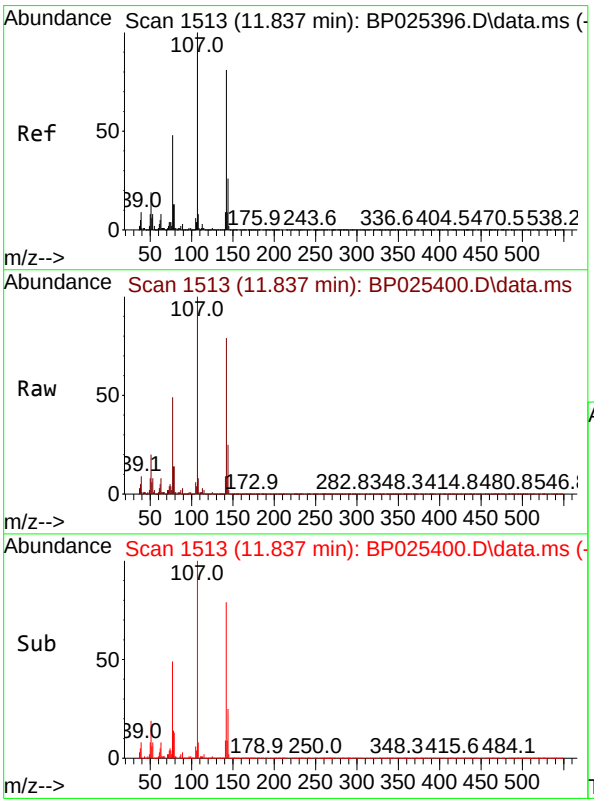
#35
Caprolactam
Concen: 38.310 ng
RT: 11.501 min Scan# 14
Delta R.T. 0.006 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Instrument :
BNA_P
ClientSampleId :
ICVBP081425

Tgt Ion:113 Resp: 163211

Ion	Ratio	Lower	Upper
113	100		
55	156.9	140.0	180.0
56	121.2	100.0	140.0

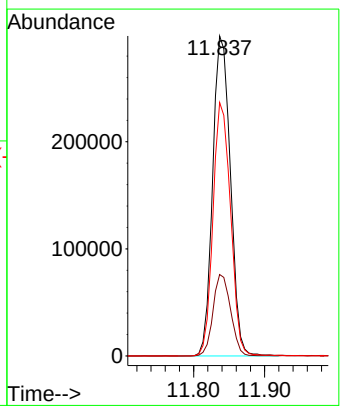


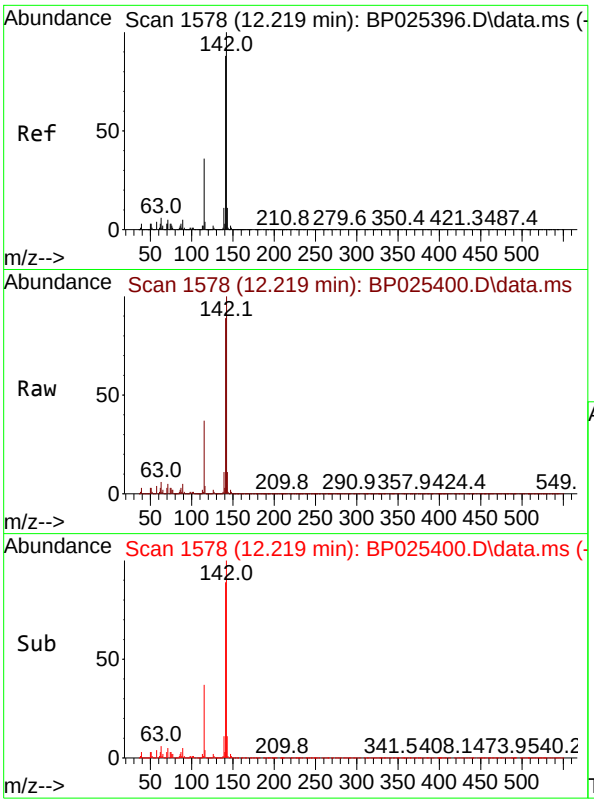


#36
4-Chloro-3-methylphenol
Concen: 38.789 ng
RT: 11.837 min Scan# 1513
Delta R.T. 0.000 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:107 Resp: 517126

Ion	Ratio	Lower	Upper
107	100		
144	25.4	21.0	31.4
142	79.2	64.6	97.0



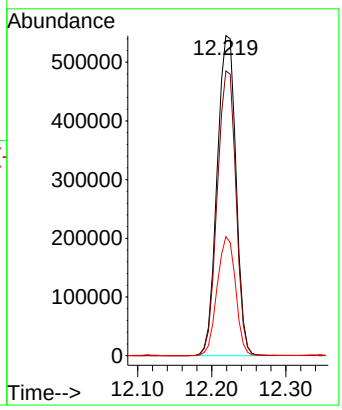


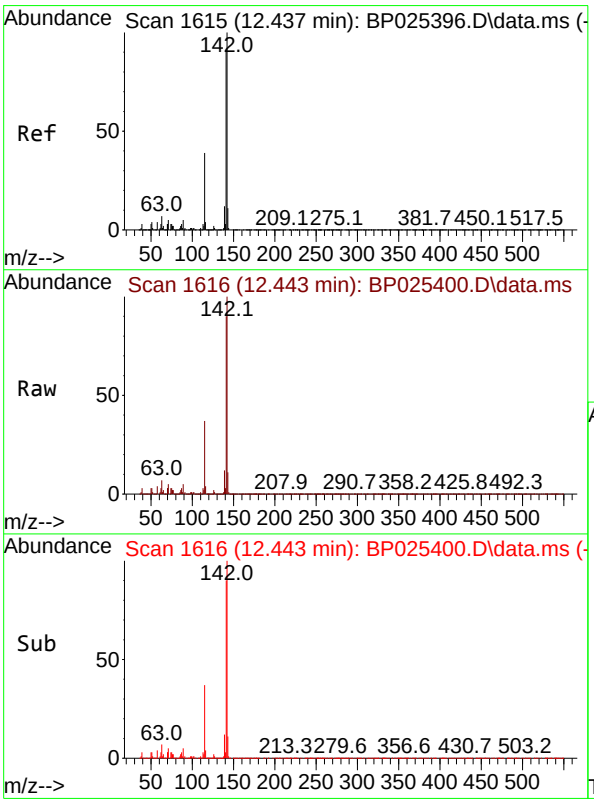
#37
2-Methylnaphthalene
Concen: 37.845 ng
RT: 12.219 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Instrument :
BNA_P
ClientSampleId :
ICVBP081425

Tgt Ion:142 Resp: 960146

Ion	Ratio	Lower	Upper
142	100		
141	89.0	70.3	105.5
115	37.2	28.9	43.3

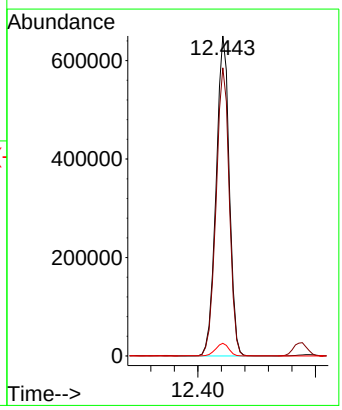


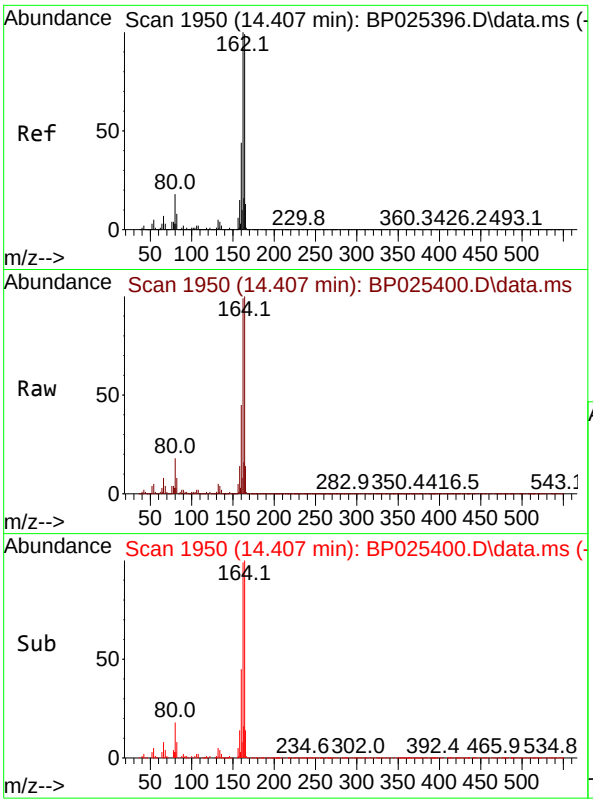


#38
1-Methylnaphthalene
Concen: 37.539 ng
RT: 12.443 min Scan# 1616
Delta R.T. 0.006 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:142 Resp: 1012844

Ion	Ratio	Lower	Upper
142	100		
141	90.0	73.1	109.7
116	3.9	3.2	4.8



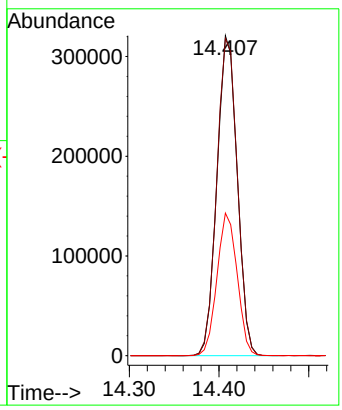


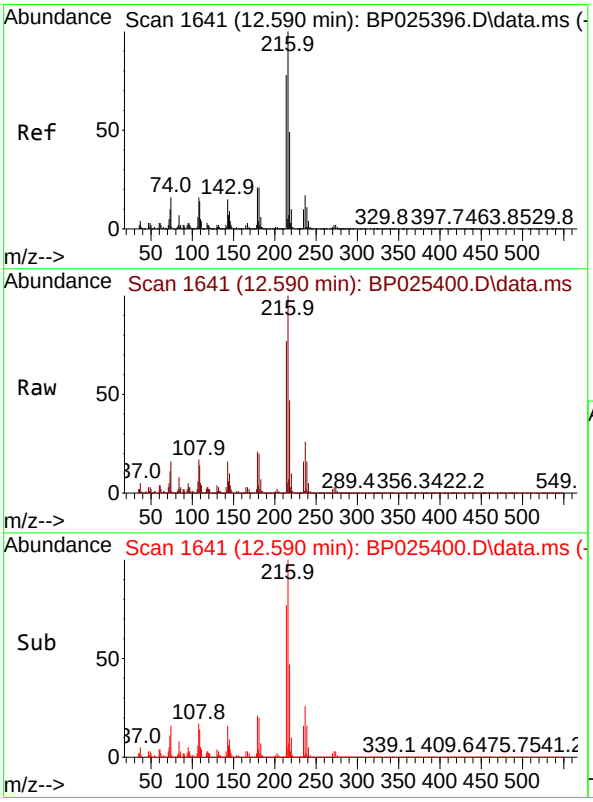
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.407 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Instrument :
BNA_P
ClientSampleId :
ICVBP081425

Tgt Ion:164 Resp: 503239

Ion	Ratio	Lower	Upper
164	100		
162	99.1	81.0	121.6
160	44.5	35.4	53.2

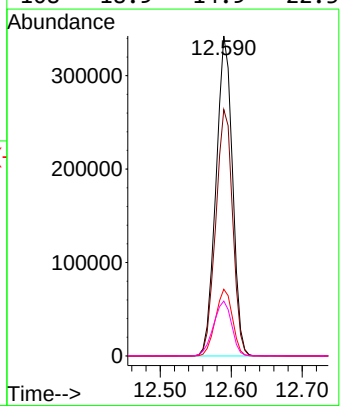


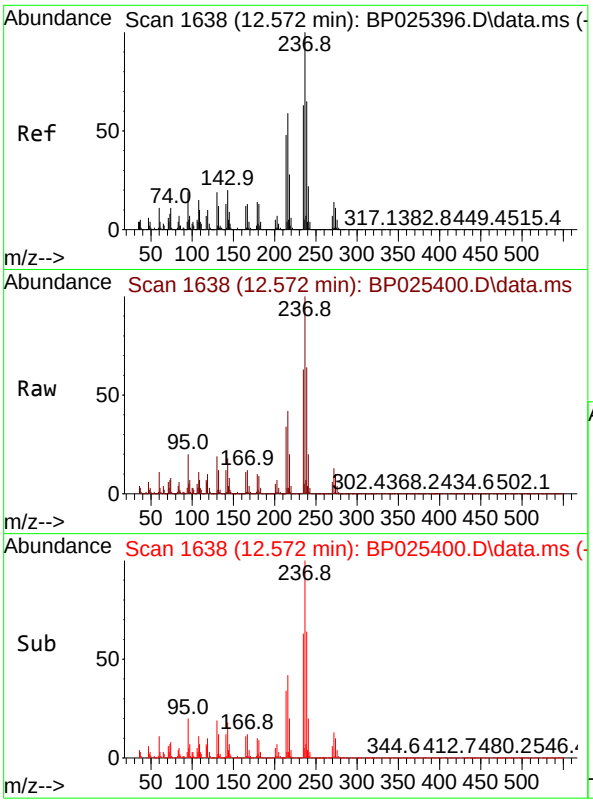


#40
1,2,4,5-Tetrachlorobenzene
Concen: 37.895 ng
RT: 12.590 min Scan# 1641
Delta R.T. 0.000 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:216 Resp: 550777

Ion	Ratio	Lower	Upper
216	100		
214	78.8	63.0	94.4
179	21.4	17.1	25.7
108	18.9	14.9	22.3



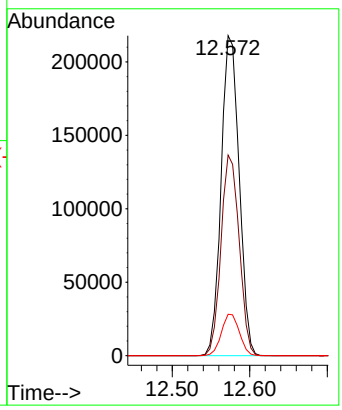


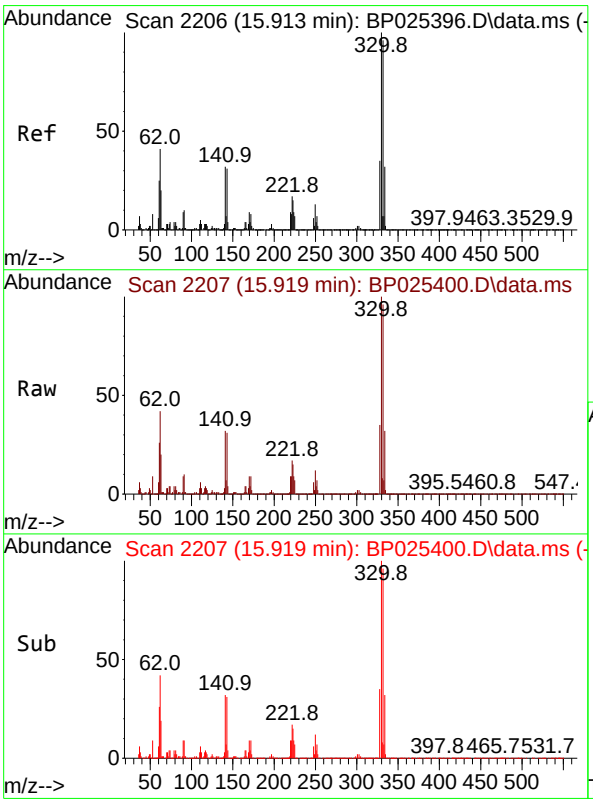
#41
Hexachlorocyclopentadiene
Concen: 40.074 ng
RT: 12.572 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Instrument :
BNA_P
ClientSampleId :
ICVBP081425

Tgt Ion:237 Resp: 351819

Ion	Ratio	Lower	Upper
237	100		
235	62.7	42.7	82.7
272	13.0	0.0	34.0

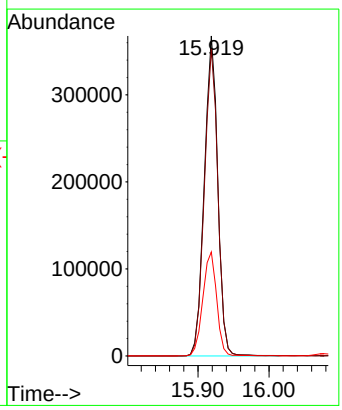


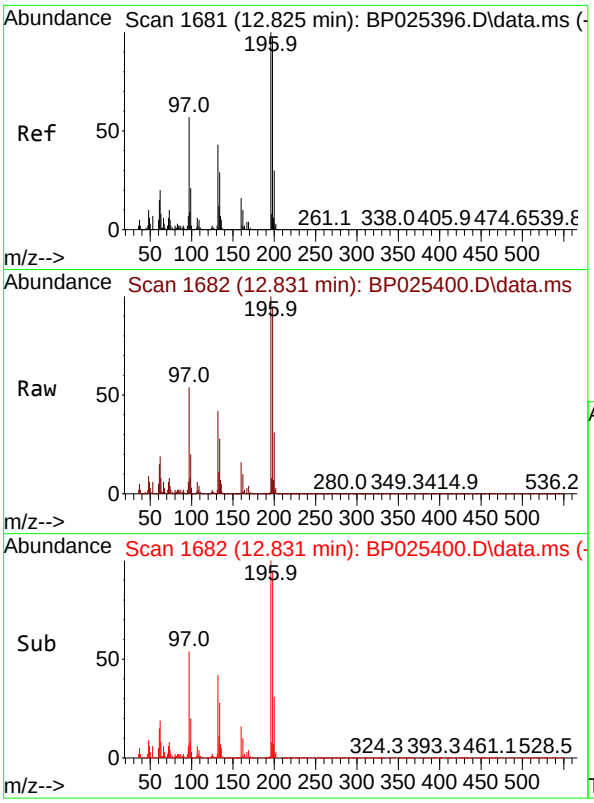


#42
2,4,6-Tribromophenol
Concen: 71.582 ng
RT: 15.919 min Scan# 2207
Delta R.T. 0.006 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:330 Resp: 484870

Ion	Ratio	Lower	Upper
330	100		
332	96.4	77.3	115.9
141	33.4	26.6	39.8



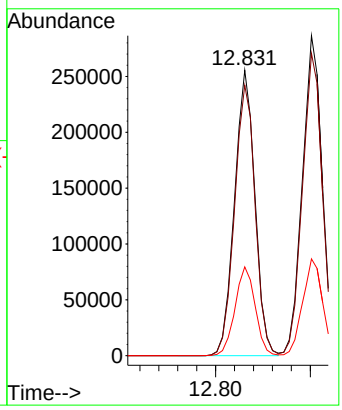


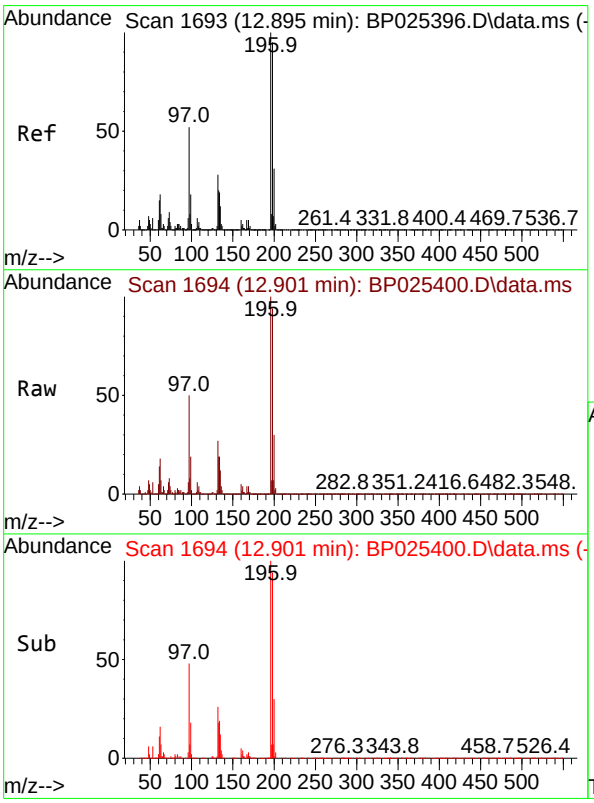
#43
2,4,6-Trichlorophenol
Concen: 38.972 ng
RT: 12.831 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Instrument :
BNA_P
ClientSampleId :
ICVBP081425

Tgt Ion:196 Resp: 382393

Ion	Ratio	Lower	Upper
196	100		
198	94.8	77.2	115.8
200	31.1	23.9	35.9

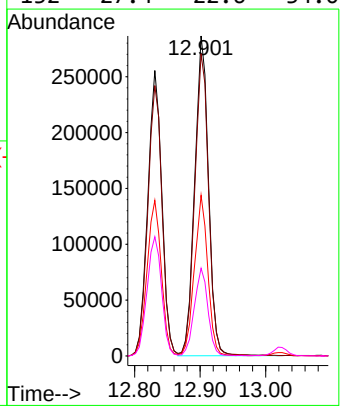


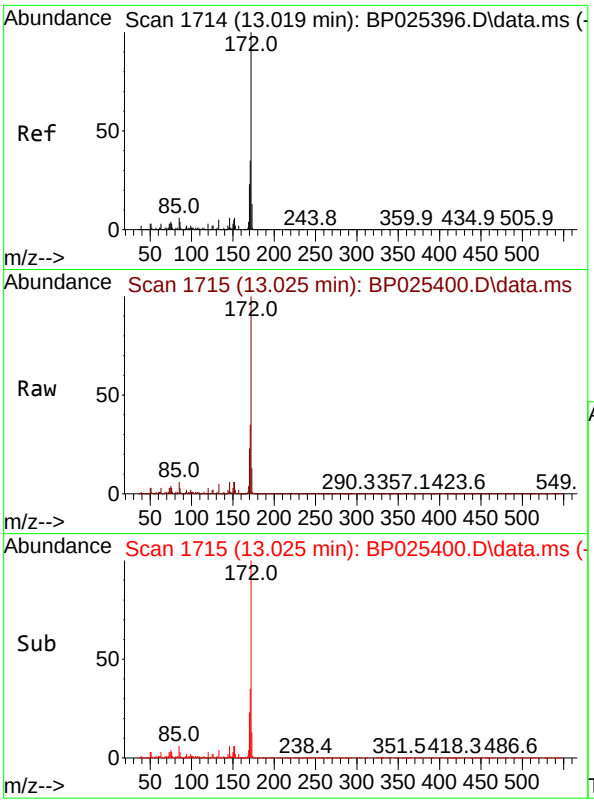


#44
2,4,5-Trichlorophenol
Concen: 39.108 ng
RT: 12.901 min Scan# 1694
Delta R.T. 0.006 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:196 Resp: 420565

Ion	Ratio	Lower	Upper
196	100		
198	94.5	76.2	114.2
97	50.2	41.2	61.8
132	27.4	22.6	34.0



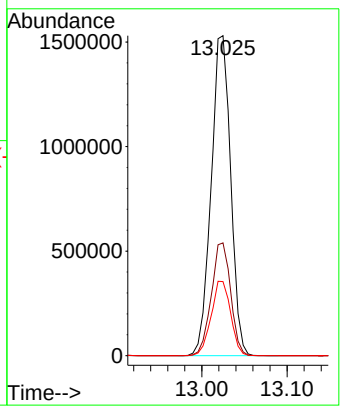


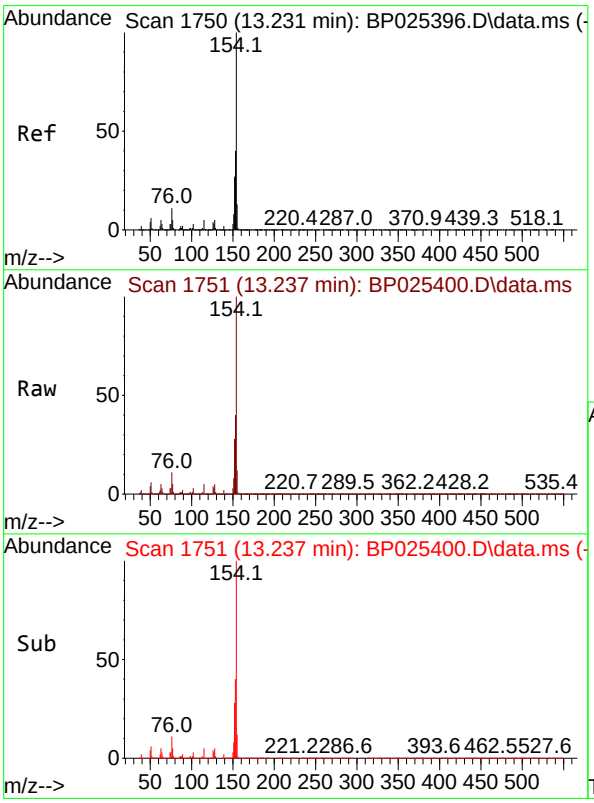
#45
2-Fluorobiphenyl
Concen: 66.016 ng
RT: 13.025 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Instrument :
BNA_P
ClientSampleId :
ICVBP081425

Tgt Ion:172 Resp: 2430828

Ion	Ratio	Lower	Upper
172	100		
171	35.3	28.1	42.1
170	23.1	18.6	28.0

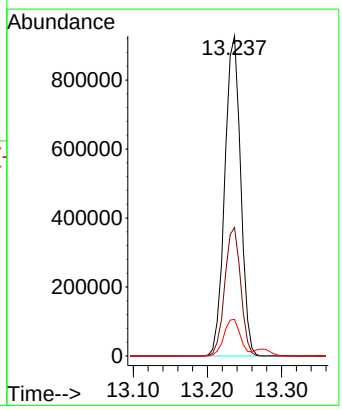


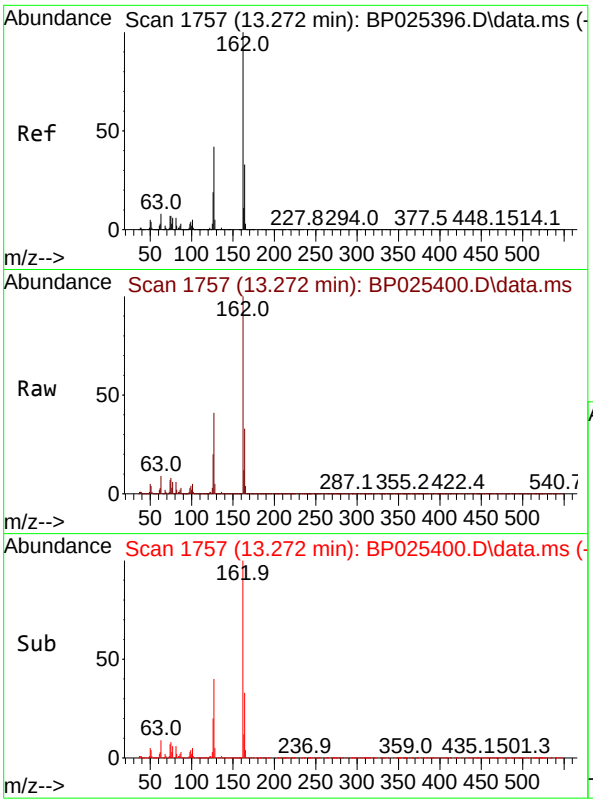


#46
1,1'-Biphenyl
Concen: 37.672 ng
RT: 13.237 min Scan# 1751
Delta R.T. 0.006 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:154 Resp: 1376834

Ion	Ratio	Lower	Upper
154	100		
153	40.2	19.5	59.5
76	11.4	0.0	31.1



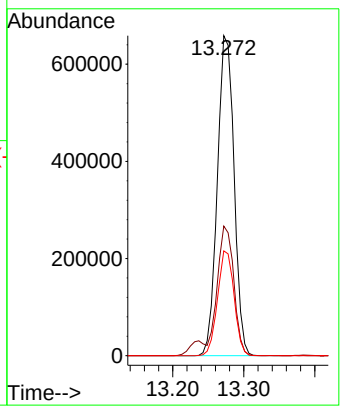


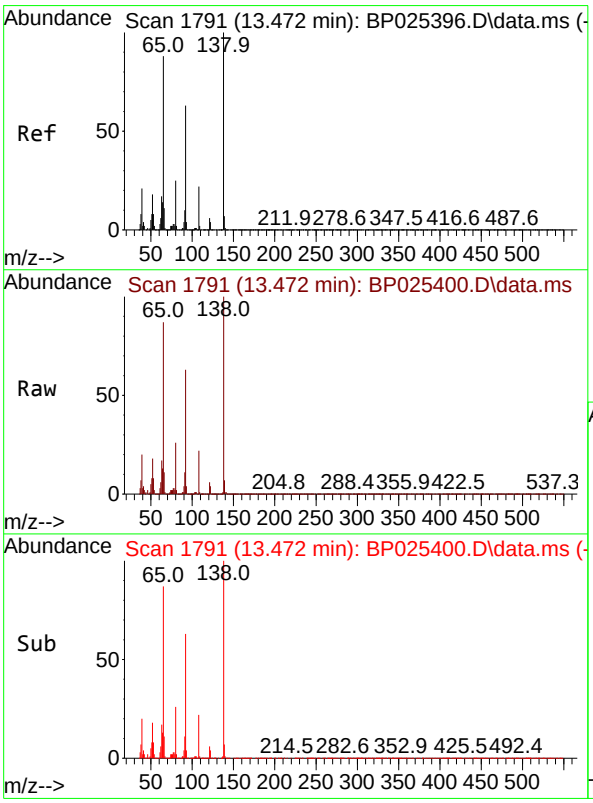
#47
2-Chloronaphthalene
Concen: 37.682 ng
RT: 13.272 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Instrument :
BNA_P
ClientSampleId :
ICVBP081425

Tgt Ion:162 Resp: 1072147

Ion	Ratio	Lower	Upper
162	100		
127	40.5	33.4	50.2
164	32.8	26.2	39.2

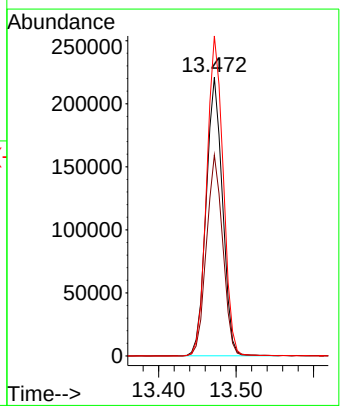


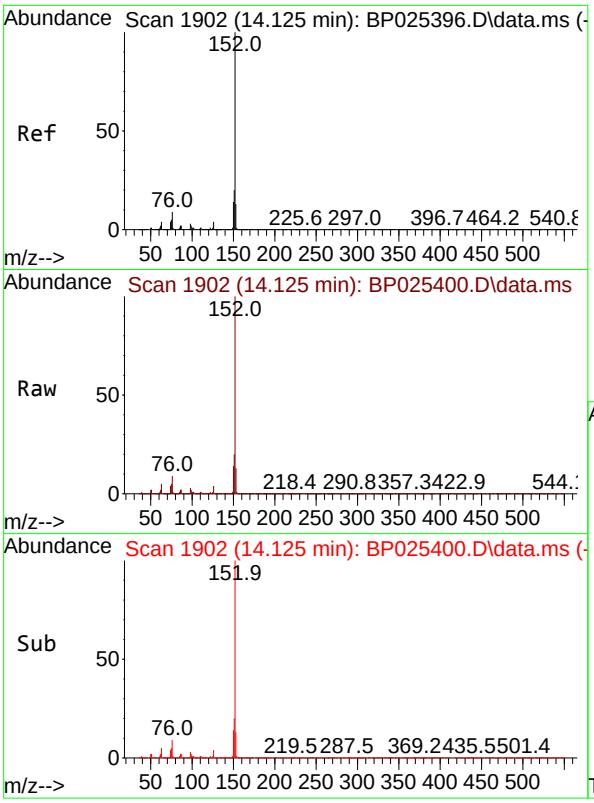


#48
2-Nitroaniline
Concen: 39.081 ng
RT: 13.472 min Scan# 1791
Delta R.T. 0.000 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion: 65 Resp: 323995

Ion	Ratio	Lower	Upper
65	100		
92	72.2	57.6	86.4
138	114.9	91.0	136.6



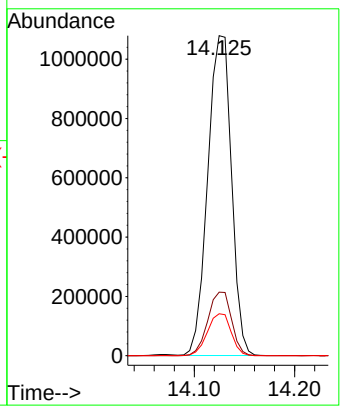


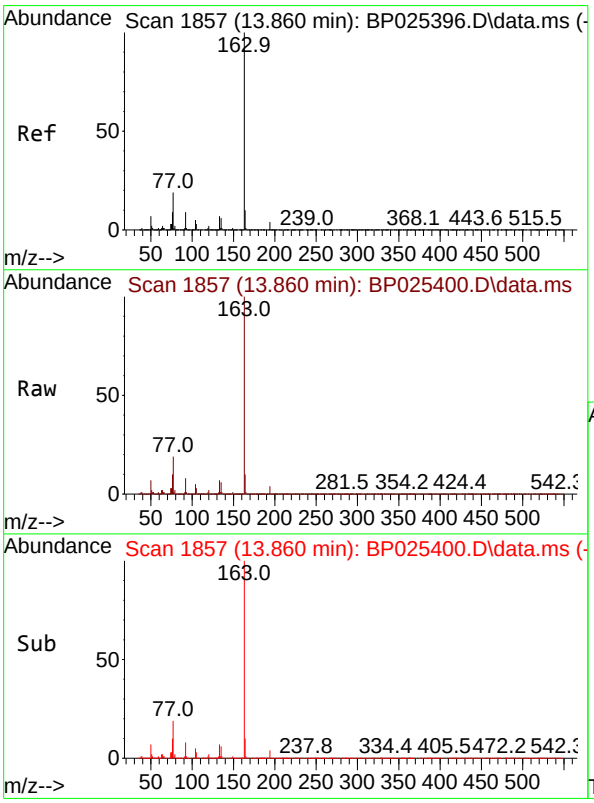
#49
Acenaphthylene
Concen: 37.720 ng
RT: 14.125 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Instrument :
BNA_P
ClientSampleId :
ICVBP081425

Tgt Ion:152 Resp: 1775899

Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.0	24.0
153	13.1	10.6	15.8

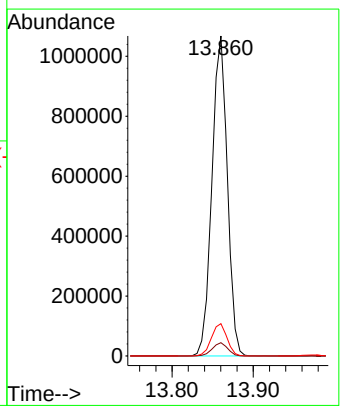


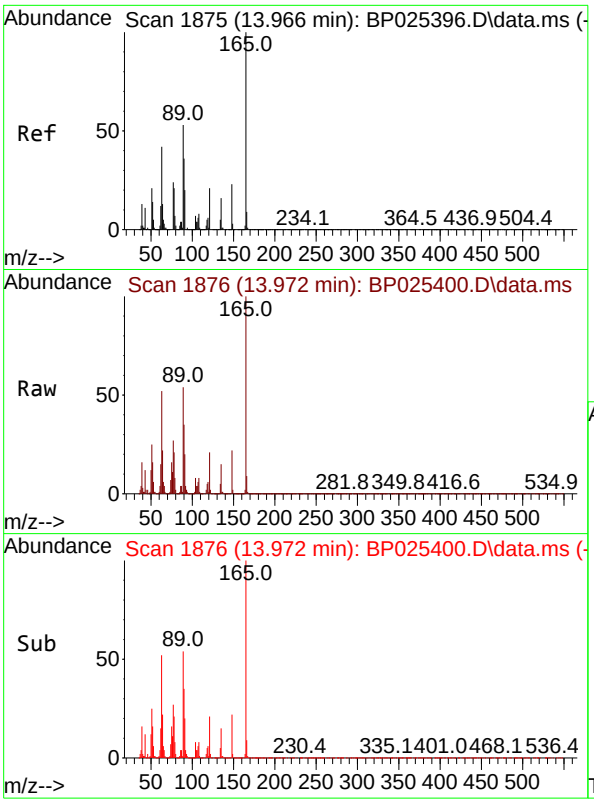


#50
Dimethylphthalate
Concen: 38.170 ng
RT: 13.860 min Scan# 1857
Delta R.T. 0.000 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:163 Resp: 1406620

Ion	Ratio	Lower	Upper
163	100		
194	4.2	3.4	5.0
164	10.1	7.9	11.9



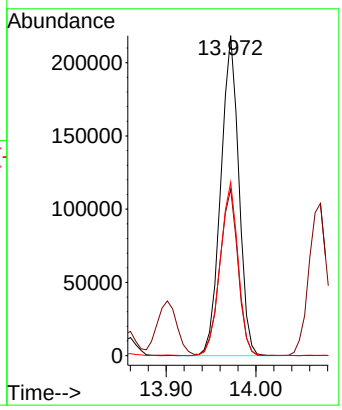


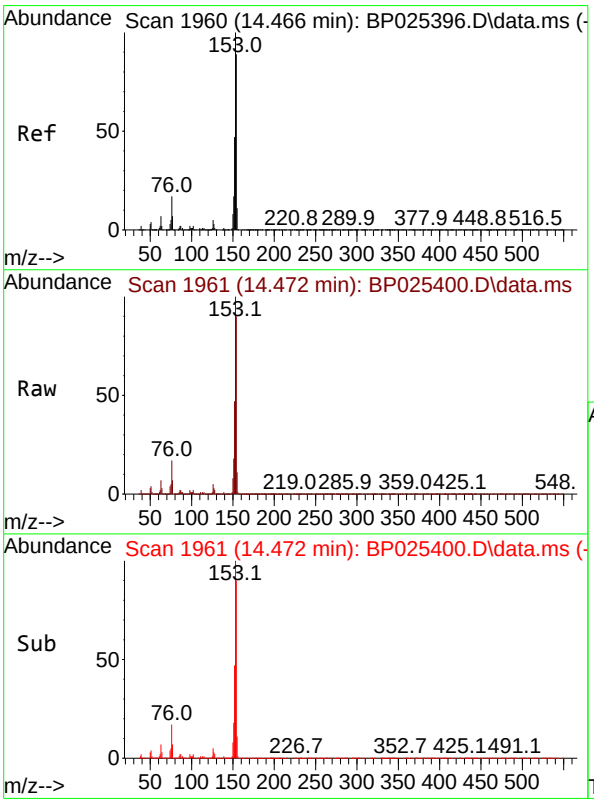
#51
2,6-Dinitrotoluene
Concen: 39.211 ng
RT: 13.972 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Instrument :
BNA_P
ClientSampleId :
ICVBP081425

Tgt Ion:165 Resp: 304562

Ion	Ratio	Lower	Upper
165	100		
63	52.1	40.9	61.3
89	54.2	42.1	63.1

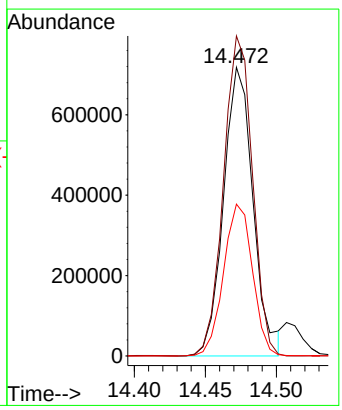


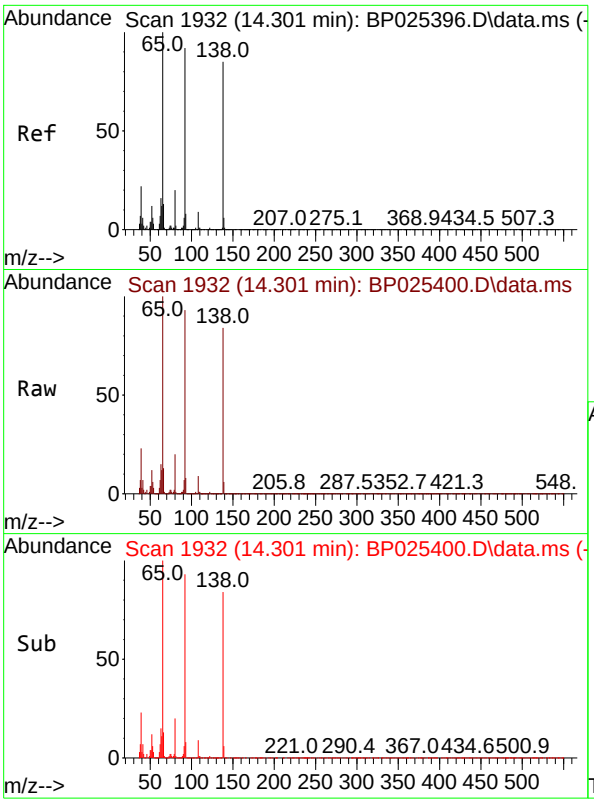


#52
Acenaphthene
Concen: 37.603 ng
RT: 14.472 min Scan# 1961
Delta R.T. 0.006 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:154 Resp: 1039167

Ion	Ratio	Lower	Upper
154	100		
153	110.9	90.2	135.2
152	52.6	42.1	63.1



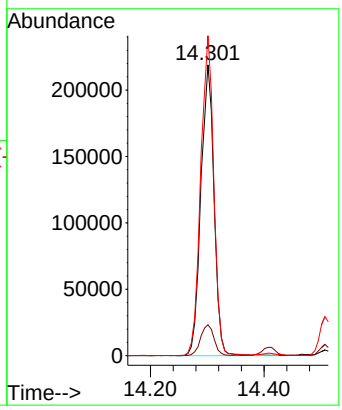


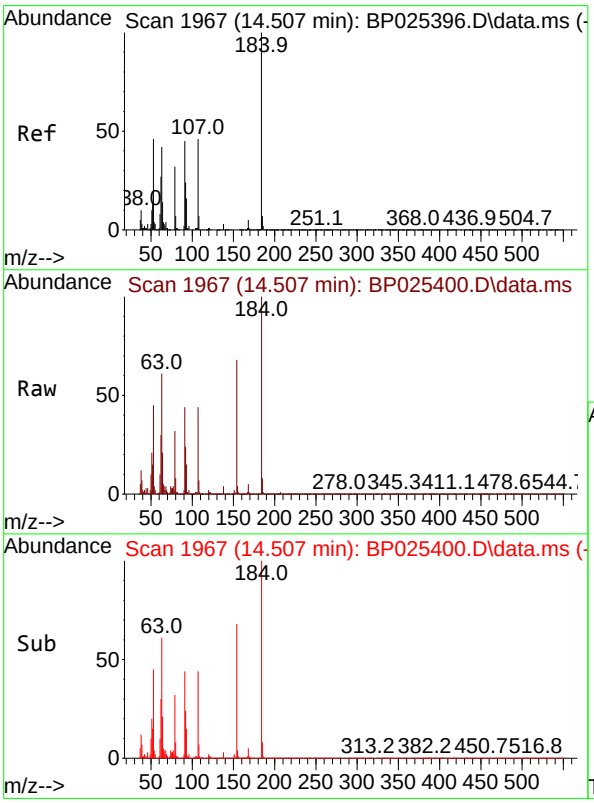
#53
3-Nitroaniline
Concen: 40.027 ng
RT: 14.301 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Instrument :
BNA_P
ClientSampleId :
ICVBP081425

Tgt Ion:138 Resp: 349791

Ion	Ratio	Lower	Upper
138	100		
108	10.6	8.3	12.5
92	110.0	86.2	129.2

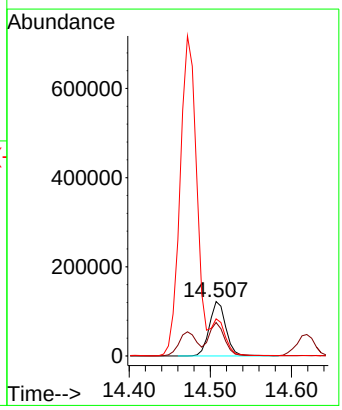


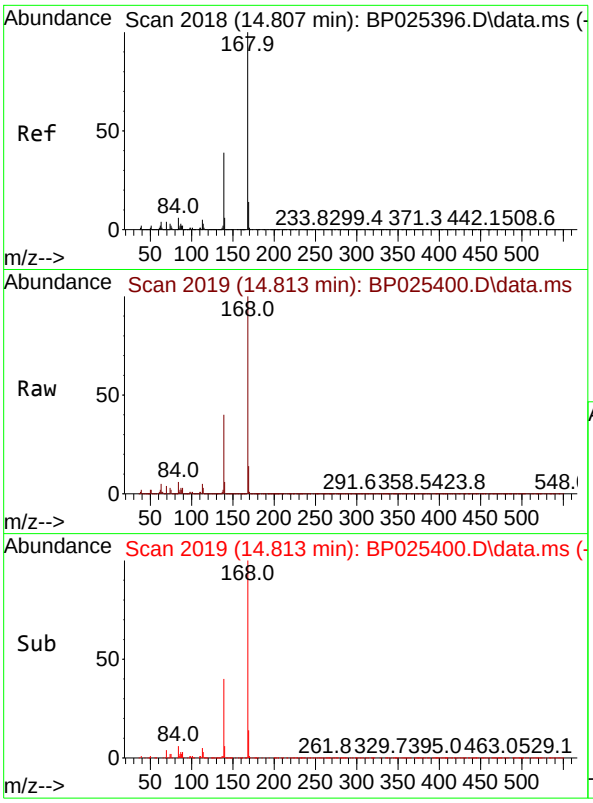


#54
2,4-Dinitrophenol
Concen: 41.646 ng
RT: 14.507 min Scan# 1967
Delta R.T. 0.000 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:184 Resp: 172743

Ion	Ratio	Lower	Upper
184	100		
63	61.3	49.4	74.2
154	68.1	54.6	82.0



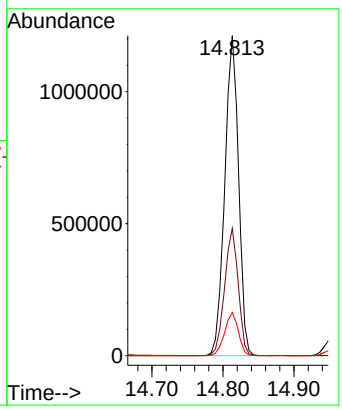


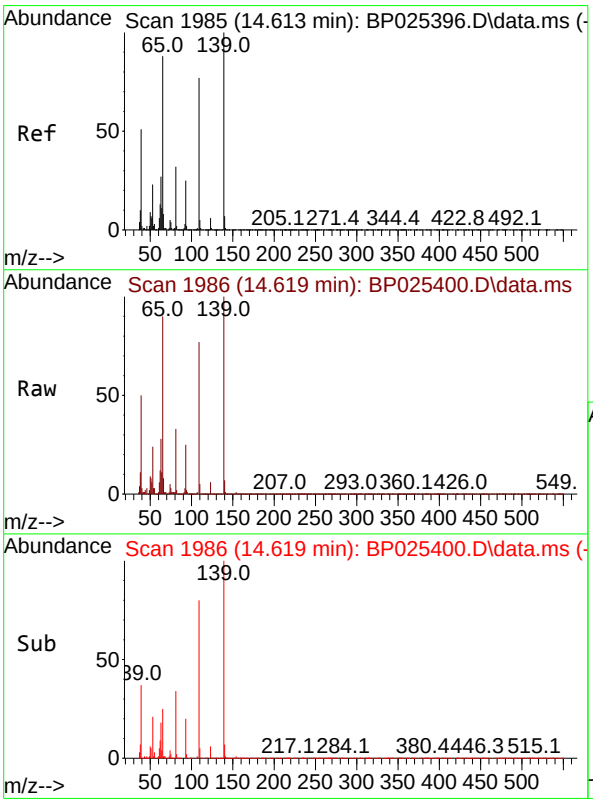
#55
Dibenzofuran
Concen: 37.324 ng
RT: 14.813 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Instrument :
BNA_P
ClientSampleId :
ICVBP081425

Tgt Ion:168 Resp: 1630744

Ion	Ratio	Lower	Upper
168	100		
139	39.8	31.5	47.3
169	13.5	10.9	16.3

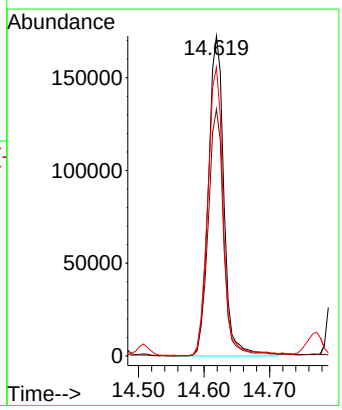


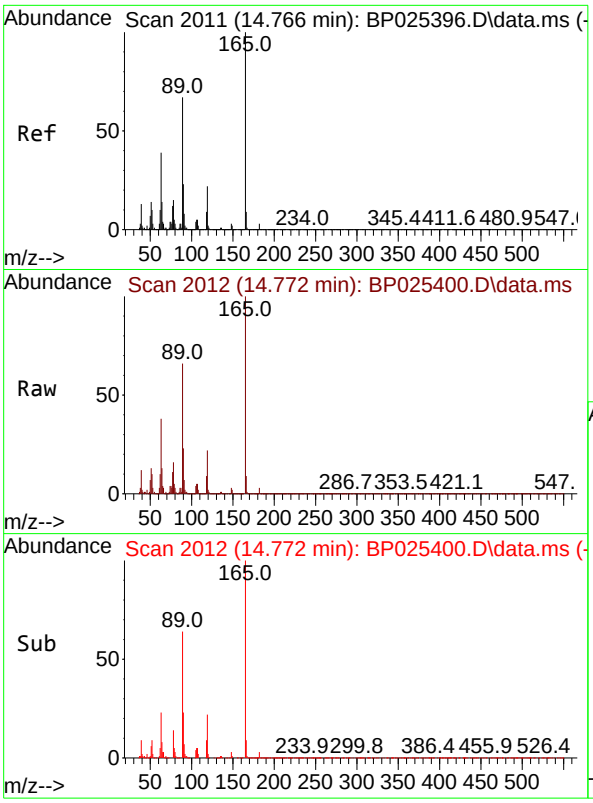


#56
4-Nitrophenol
Concen: 39.630 ng
RT: 14.619 min Scan# 1986
Delta R.T. 0.006 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:139 Resp: 284585

Ion	Ratio	Lower	Upper
139	100		
109	77.1	56.6	96.6
65	90.2	68.2	108.2



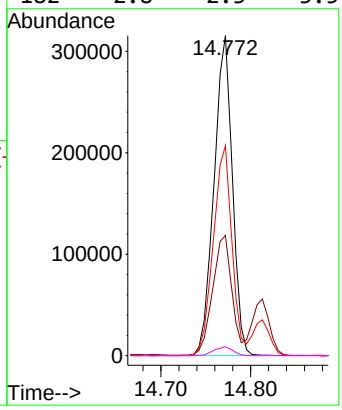


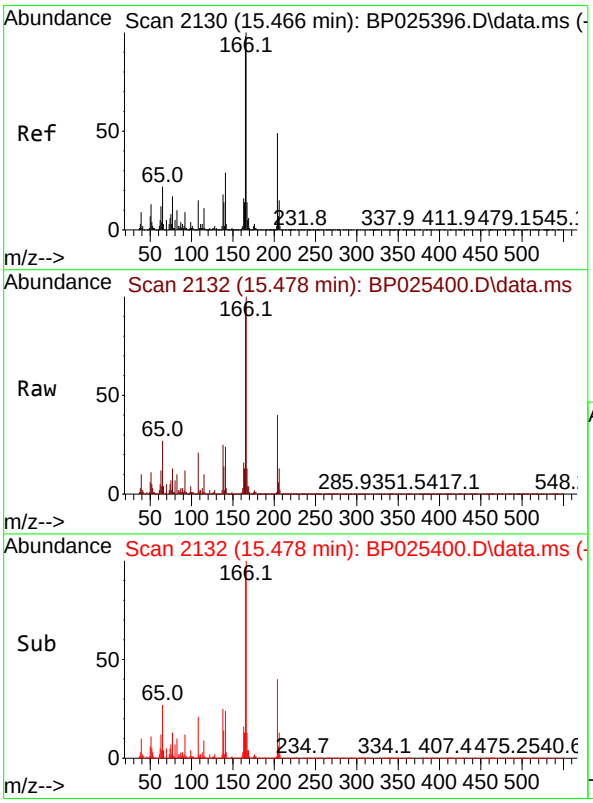
#57
2,4-Dinitrotoluene
Concen: 40.439 ng
RT: 14.772 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Instrument :
BNA_P
ClientSampleId :
ICVBP081425

Tgt Ion:165 Resp: 448143

Ion	Ratio	Lower	Upper
165	100		
63	37.5	31.4	47.2
89	65.6	53.3	79.9
182	2.8	2.3	3.5

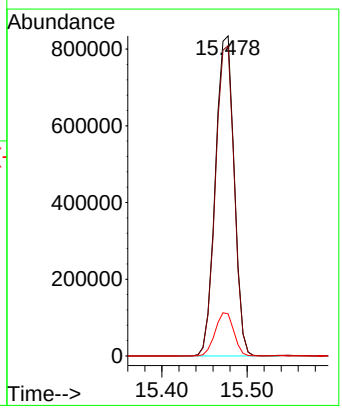


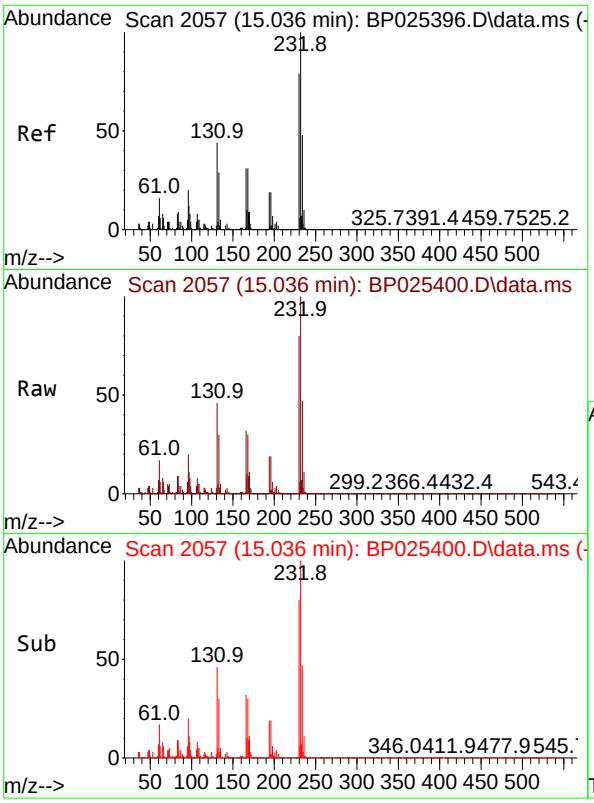


#58
Fluorene
Concen: 36.992 ng
RT: 15.478 min Scan# 2132
Delta R.T. 0.012 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:166 Resp: 1275341

Ion	Ratio	Lower	Upper
166	100		
165	97.0	78.8	118.2
167	13.2	11.0	16.4



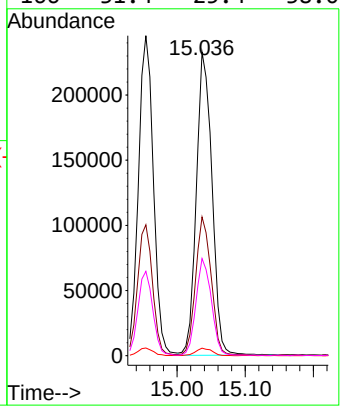


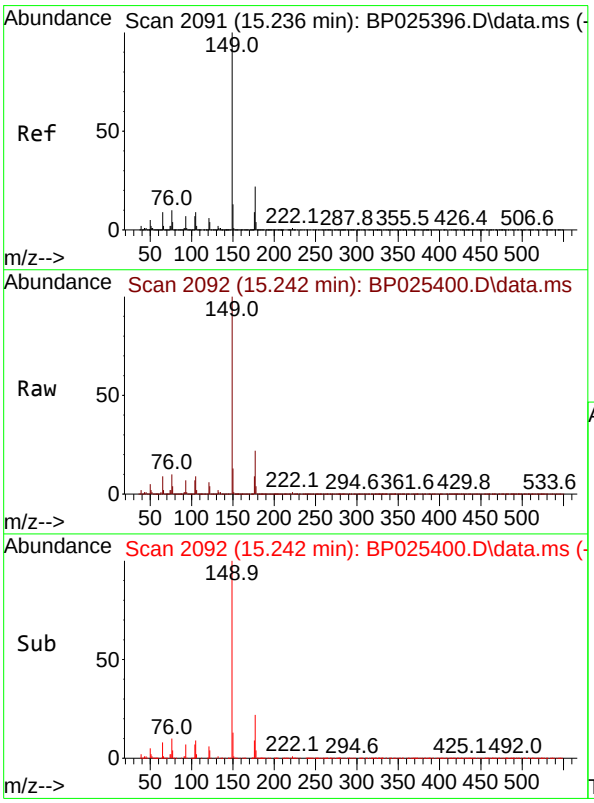
#59
2,3,4,6-Tetrachlorophenol
Concen: 39.147 ng
RT: 15.036 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Instrument :
BNA_P
ClientSampleId :
ICVBP081425

Tgt Ion:232 Resp: 371715

Ion	Ratio	Lower	Upper
232	100		
131	45.3	37.0	55.6
130	2.6	1.9	2.9
166	31.4	25.4	38.0

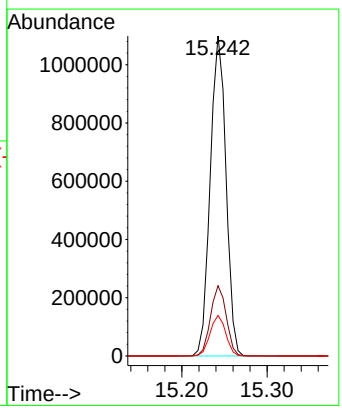


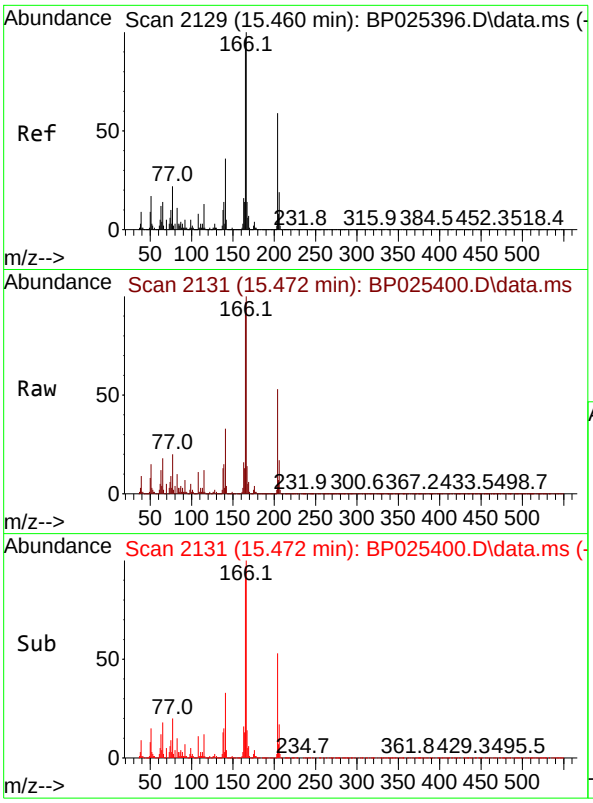


#60
Diethylphthalate
Concen: 37.810 ng
RT: 15.242 min Scan# 2092
Delta R.T. 0.006 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:149 Resp: 1415787

Ion	Ratio	Lower	Upper
149	100		
177	22.0	17.3	25.9
150	12.7	10.3	15.5



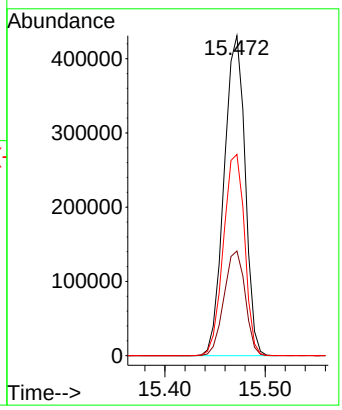


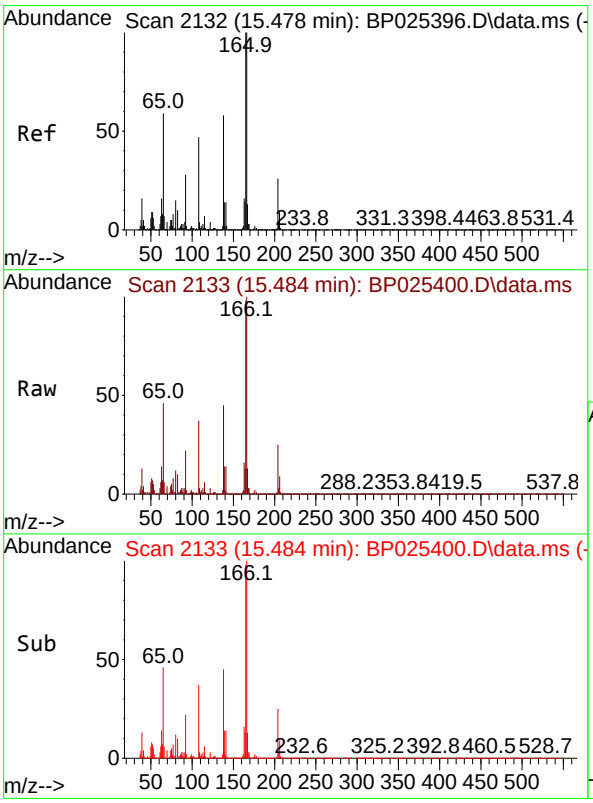
#61
4-Chlorophenyl-phenylether
Concen: 36.596 ng
RT: 15.472 min Scan# 21
Delta R.T. 0.012 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Instrument :
BNA_P
ClientSampleId :
ICVBP081425

Tgt Ion:204 Resp: 627477

Ion	Ratio	Lower	Upper
204	100		
206	32.7	25.8	38.8
141	62.9	49.4	74.2

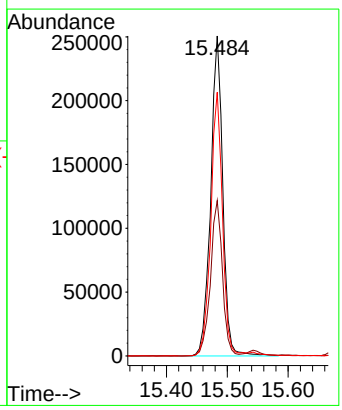


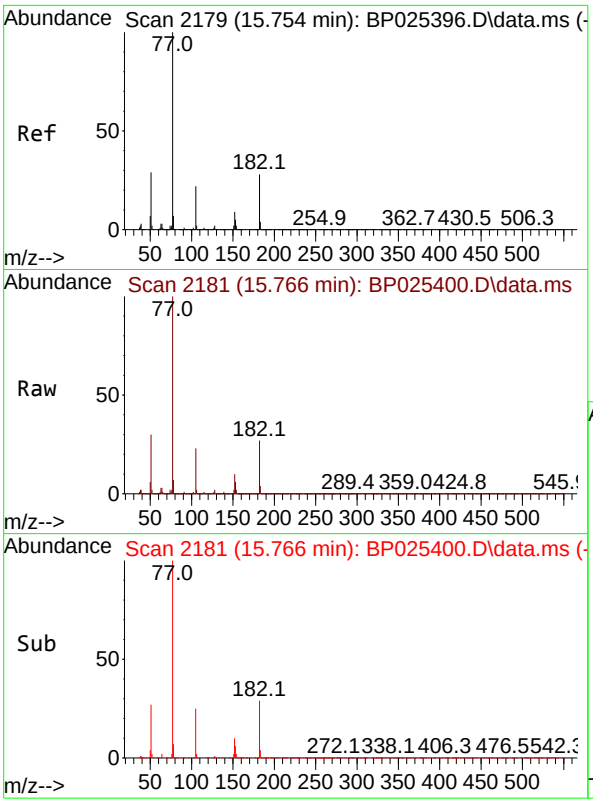


#62
4-Nitroaniline
Concen: 38.717 ng
RT: 15.484 min Scan# 2133
Delta R.T. 0.006 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:138 Resp: 346865

Ion	Ratio	Lower	Upper
138	100		
92	48.5	29.1	69.1
108	82.4	61.5	101.5



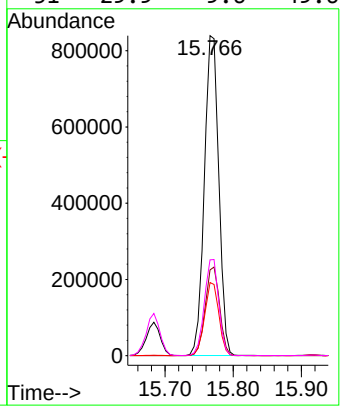


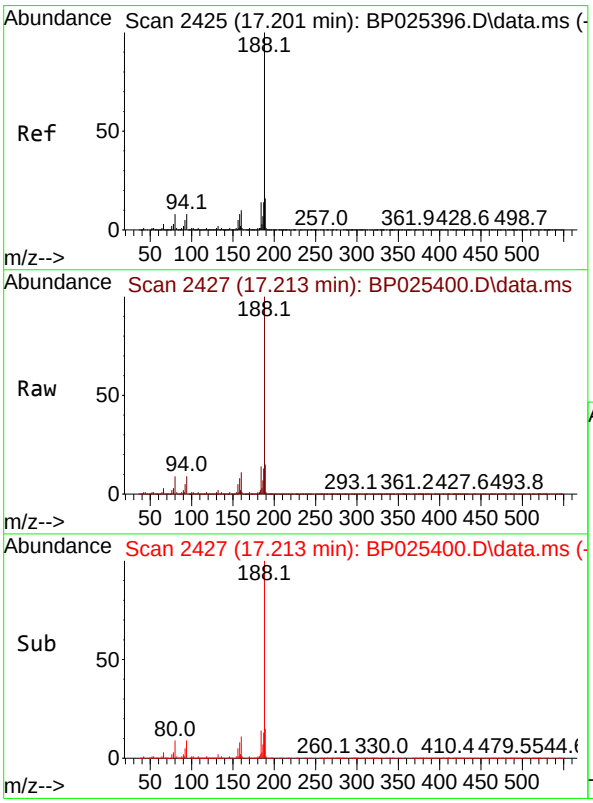
#63
Azobenzene
Concen: 38.526 ng
RT: 15.766 min Scan# 21
Delta R.T. 0.012 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Instrument :
BNA_P
ClientSampleId :
ICVBP081425

Tgt Ion: 77 Resp: 1235242

Ion	Ratio	Lower	Upper
77	100		
182	26.8	7.5	47.5
105	22.8	2.1	42.1
51	29.9	9.6	49.6

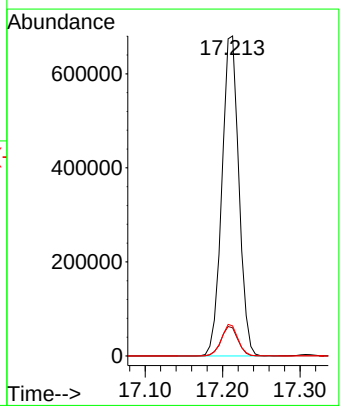


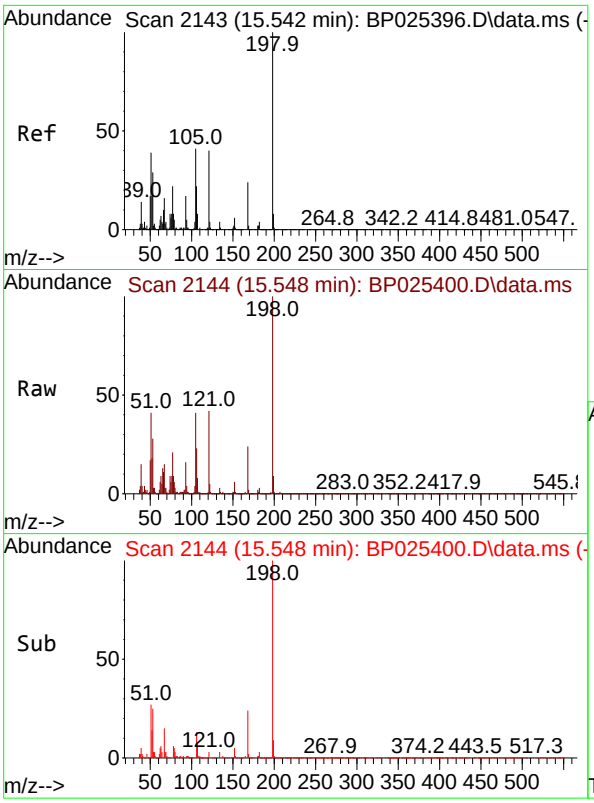


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.213 min Scan# 2427
Delta R.T. 0.012 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:188 Resp: 1034378

Ion	Ratio	Lower	Upper
188	100		
94	8.8	6.6	10.0
80	9.4	6.7	10.1



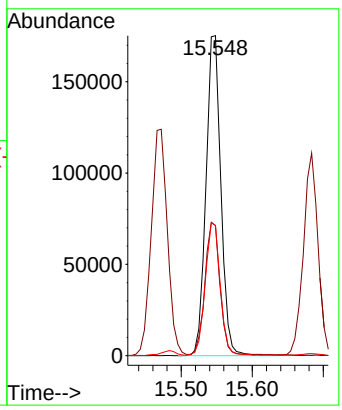


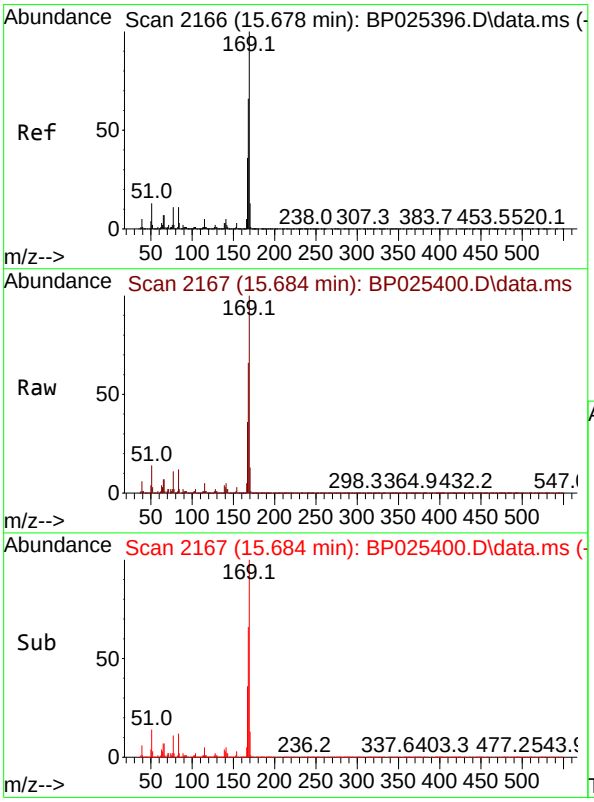
#65
4,6-Dinitro-2-methylphenol
Concen: 39.721 ng
RT: 15.548 min Scan# 21
Delta R.T. 0.006 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Instrument :
BNA_P
ClientSampleId :
ICVBP081425

Tgt Ion:198 Resp: 256111

Ion	Ratio	Lower	Upper
198	100		
51	40.6	19.6	59.6
105	40.7	20.9	60.9

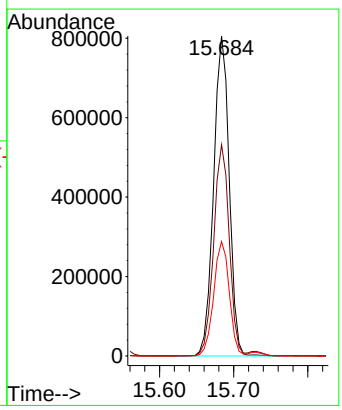


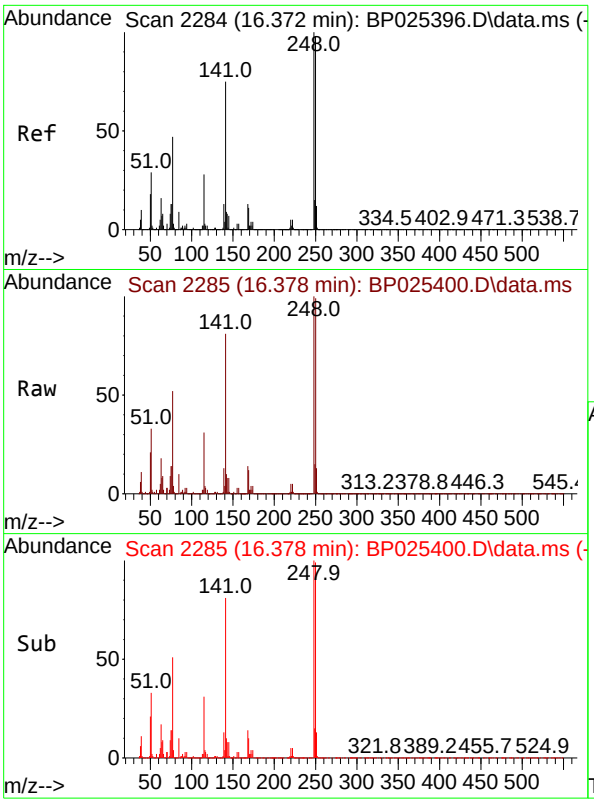


#66
n-Nitrosodiphenylamine
Concen: 37.227 ng
RT: 15.684 min Scan# 2167
Delta R.T. 0.006 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:169 Resp: 1174244

Ion	Ratio	Lower	Upper
169	100		
168	66.0	53.2	79.8
167	35.7	28.7	43.1



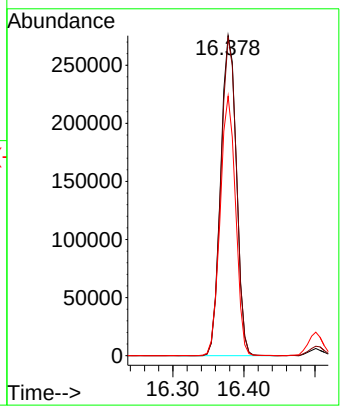


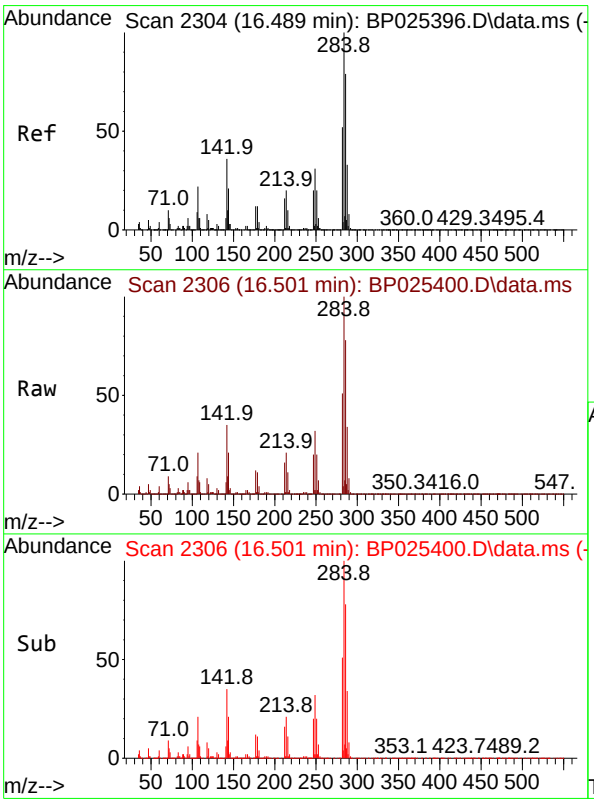
#67
4-Bromophenyl-phenylether
Concen: 37.101 ng
RT: 16.378 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Instrument :
BNA_P
ClientSampleId :
ICVBP081425

Tgt Ion:248 Resp: 422072

Ion	Ratio	Lower	Upper
248	100		
250	99.4	78.2	117.2
141	81.1	59.6	89.4

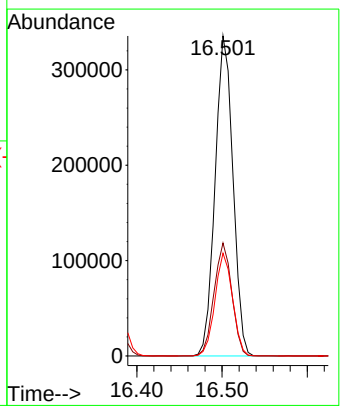


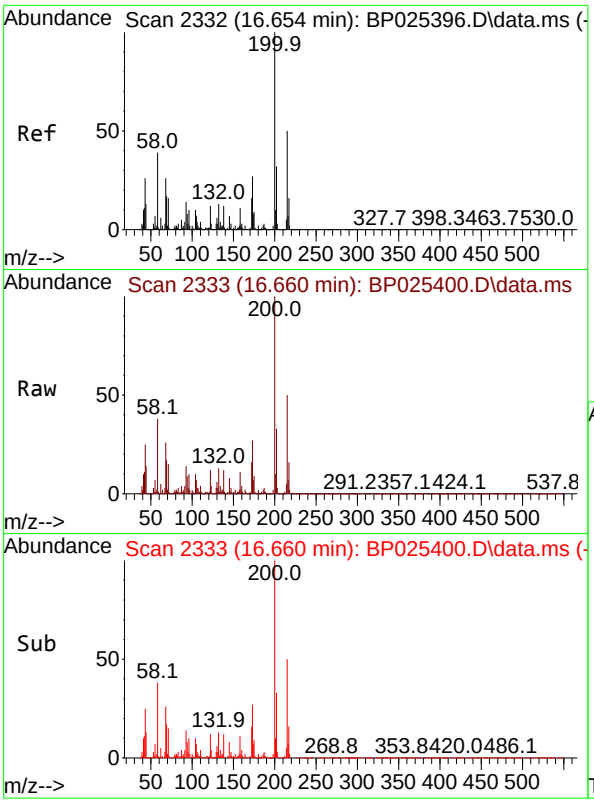


#68
Hexachlorobenzene
Concen: 37.062 ng
RT: 16.501 min Scan# 2306
Delta R.T. 0.012 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:284 Resp: 488749

Ion	Ratio	Lower	Upper
284	100		
142	35.3	29.1	43.7
249	32.1	25.0	37.4



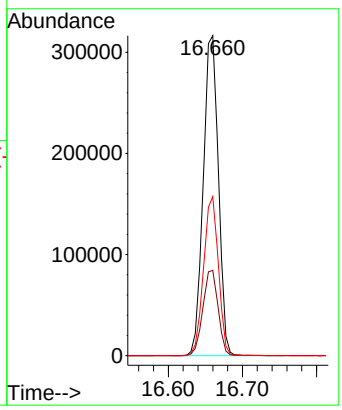


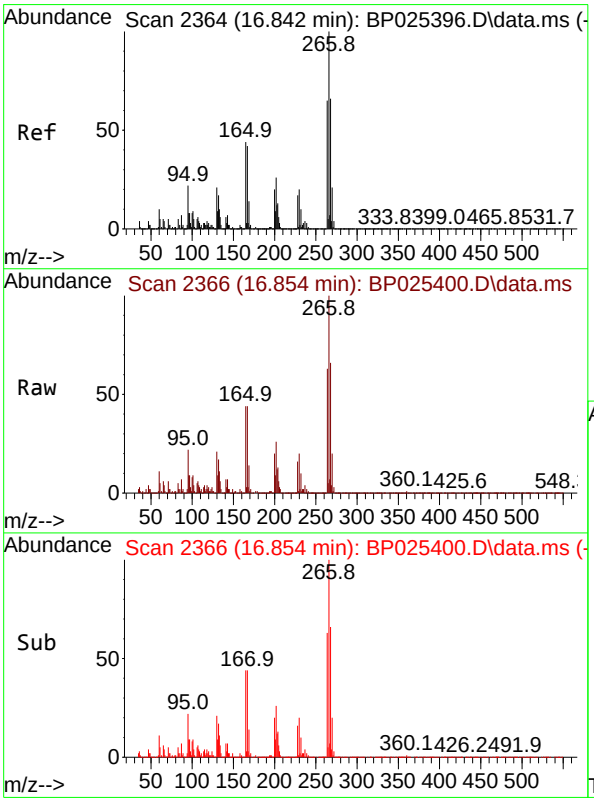
#69
Atrazine
Concen: 38.057 ng
RT: 16.660 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Instrument :
BNA_P
ClientSampleId :
ICVBP081425

Tgt Ion:200 Resp: 449555

Ion	Ratio	Lower	Upper
200	100		
173	26.7	6.7	46.7
215	49.7	29.7	69.7

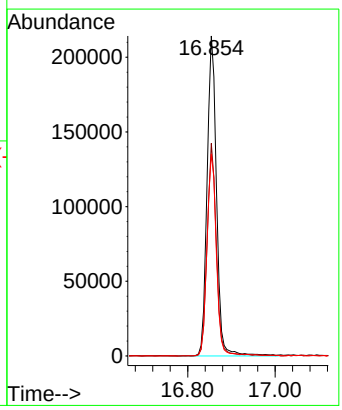


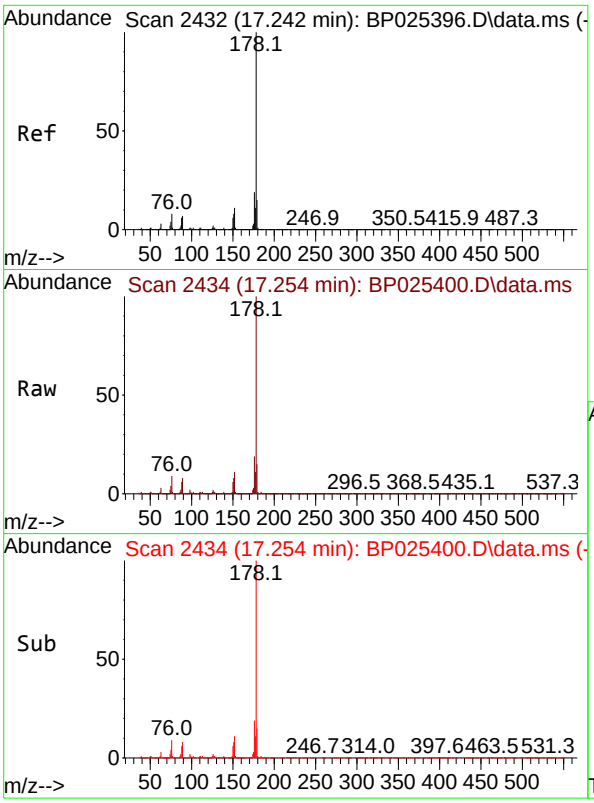


#70
Pentachlorophenol
Concen: 38.733 ng
RT: 16.854 min Scan# 2366
Delta R.T. 0.012 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:266 Resp: 322435

Ion	Ratio	Lower	Upper
266	100		
268	66.4	52.6	79.0
264	63.2	52.0	78.0



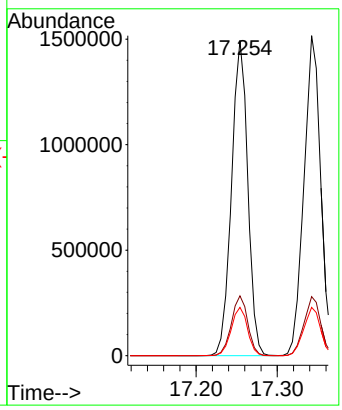


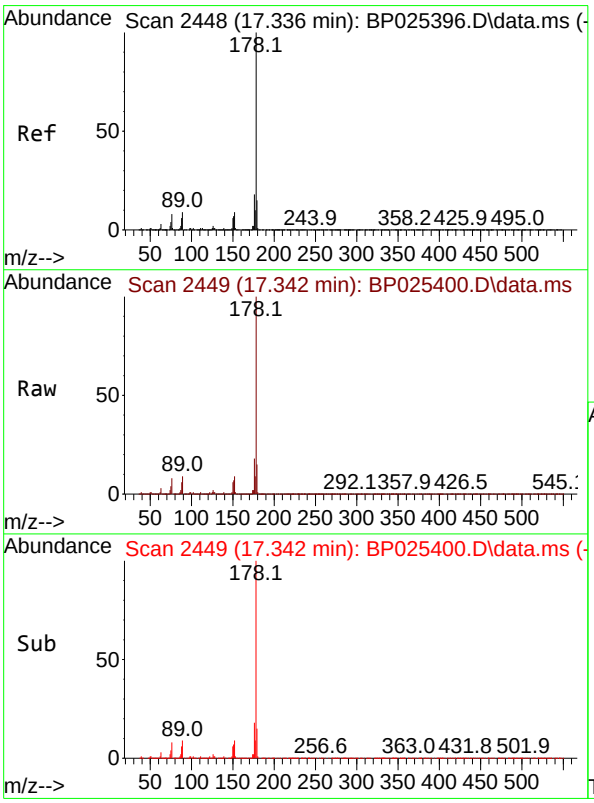
#71
Phenanthrene
Concen: 36.445 ng
RT: 17.254 min Scan# 24
Delta R.T. 0.012 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Instrument :
BNA_P
ClientSampleId :
ICVBP081425

Tgt Ion:178 Resp: 2070873

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.5	23.3
179	15.3	12.2	18.4

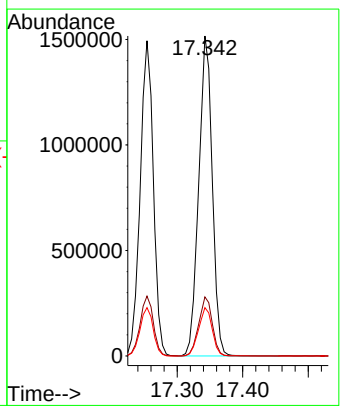


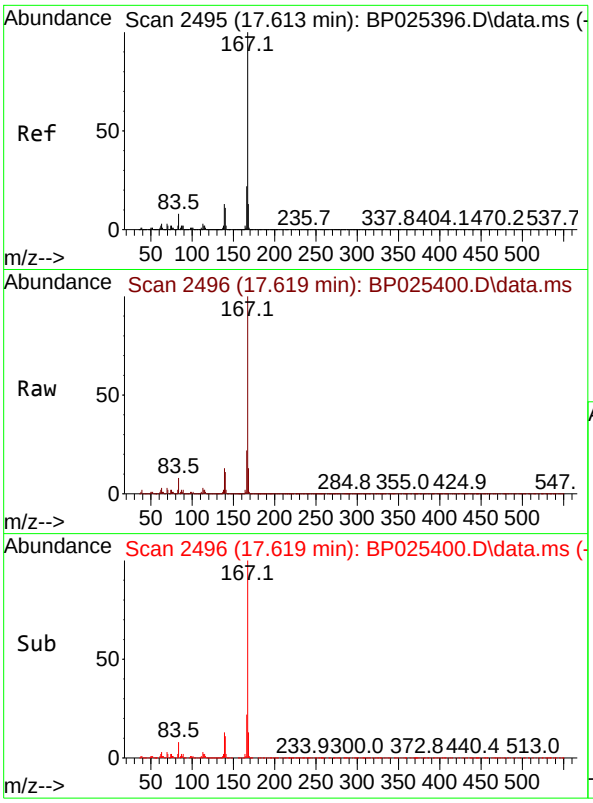


#72
Anthracene
Concen: 37.563 ng
RT: 17.342 min Scan# 2449
Delta R.T. 0.006 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:178 Resp: 2179669

Ion	Ratio	Lower	Upper
178	100		
176	18.5	14.7	22.1
179	15.1	12.2	18.2



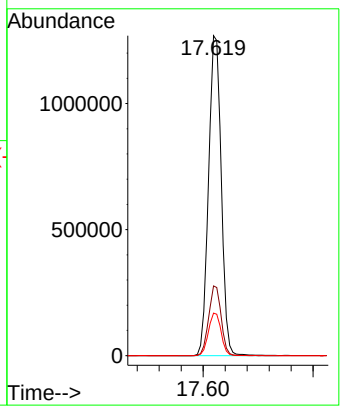


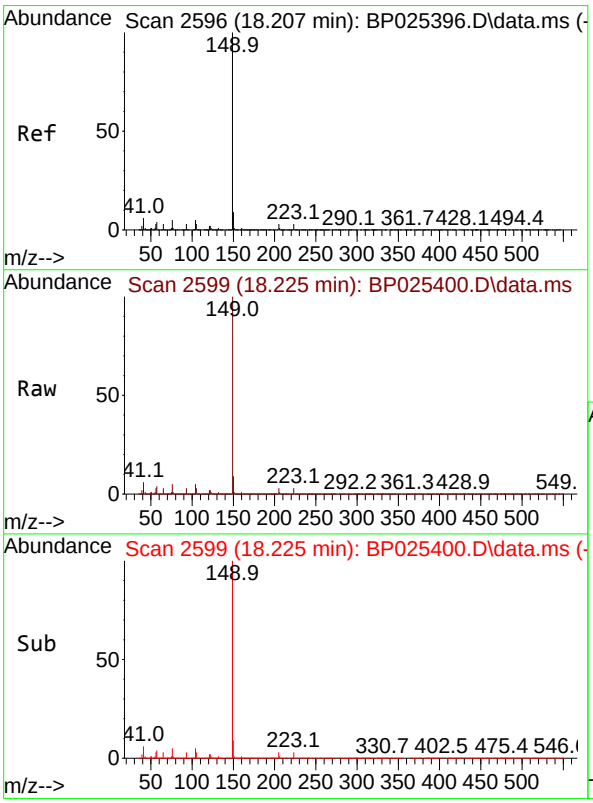
#73
Carbazole
Concen: 37.116 ng
RT: 17.619 min Scan# 24
Delta R.T. 0.006 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Instrument :
BNA_P
ClientSampleId :
ICVBP081425

Tgt Ion:167 Resp: 2028595

Ion	Ratio	Lower	Upper
167	100		
166	21.8	17.5	26.3
139	13.3	10.6	16.0

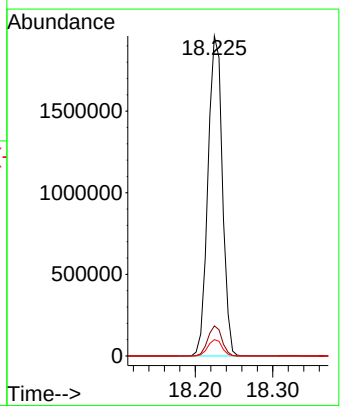


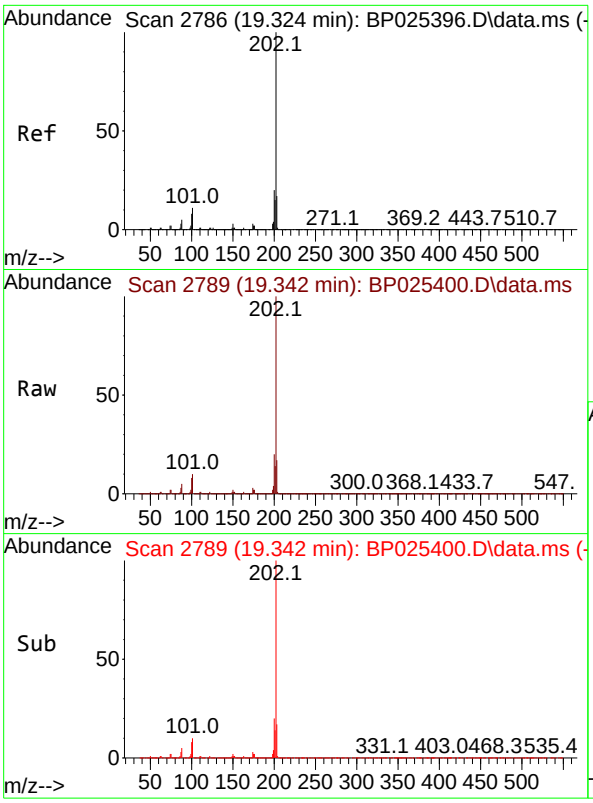


#74
Di-n-butylphthalate
Concen: 37.602 ng
RT: 18.225 min Scan# 2599
Delta R.T. 0.018 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:149 Resp: 2528547

Ion	Ratio	Lower	Upper
149	100		
150	9.4	7.4	11.0
104	5.1	4.2	6.2



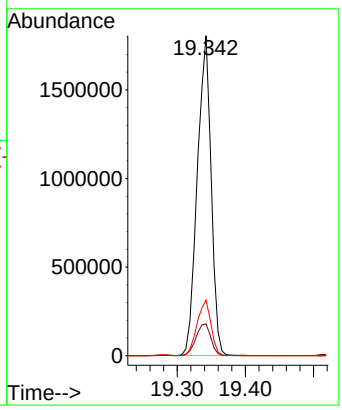


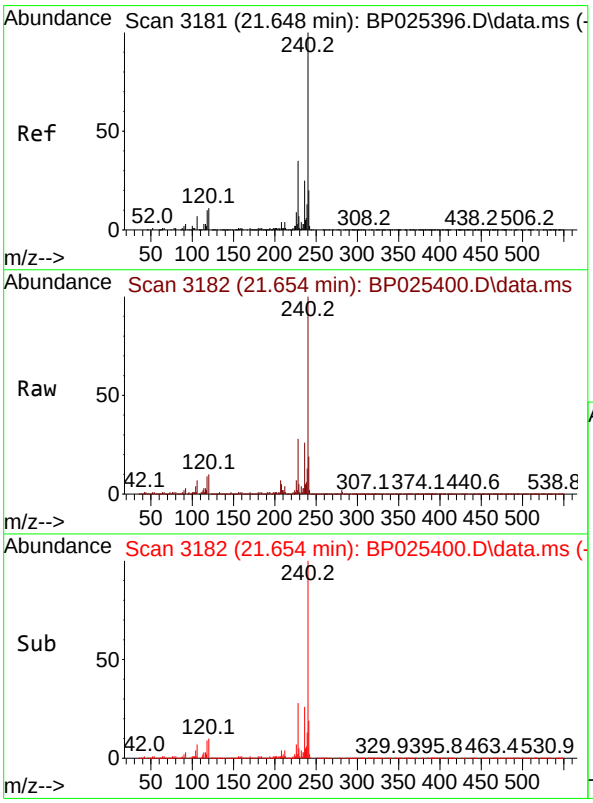
#75
Fluoranthene
Concen: 37.481 ng
RT: 19.342 min Scan# 2
Delta R.T. 0.018 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Instrument :
BNA_P
ClientSampleId :
ICVBP081425

Tgt Ion:202 Resp: 2540417

Ion	Ratio	Lower	Upper
202	100		
101	9.9	0.0	31.1
203	17.4	0.0	37.3

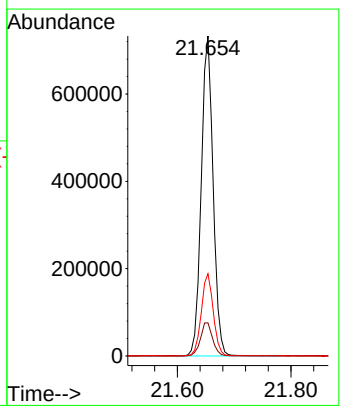


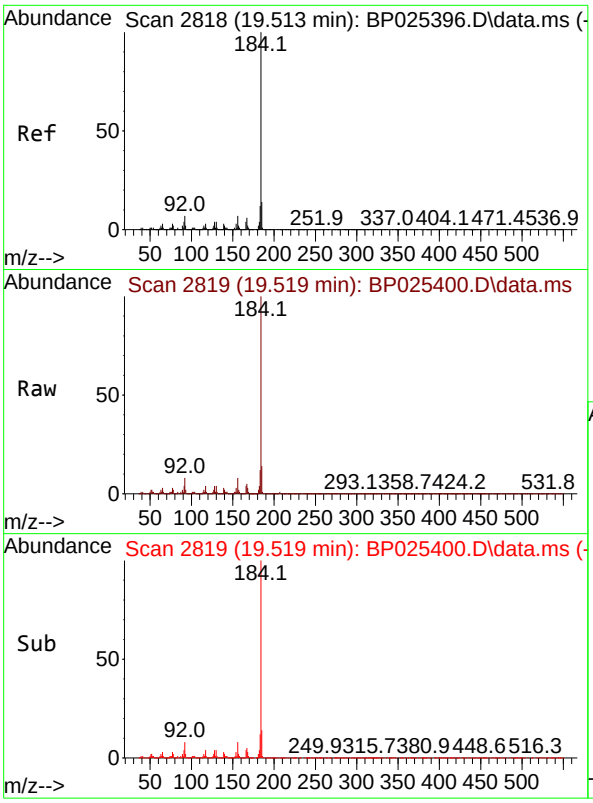


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.654 min Scan# 3182
Delta R.T. 0.006 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:240 Resp: 1060337

Ion	Ratio	Lower	Upper
240	100		
120	10.3	8.9	13.3
236	25.7	19.8	29.8



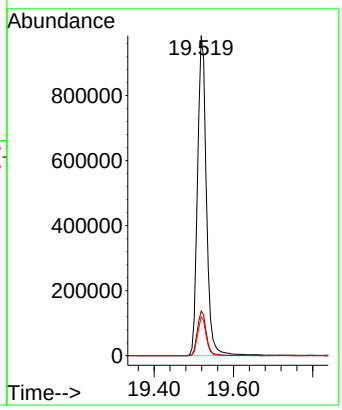


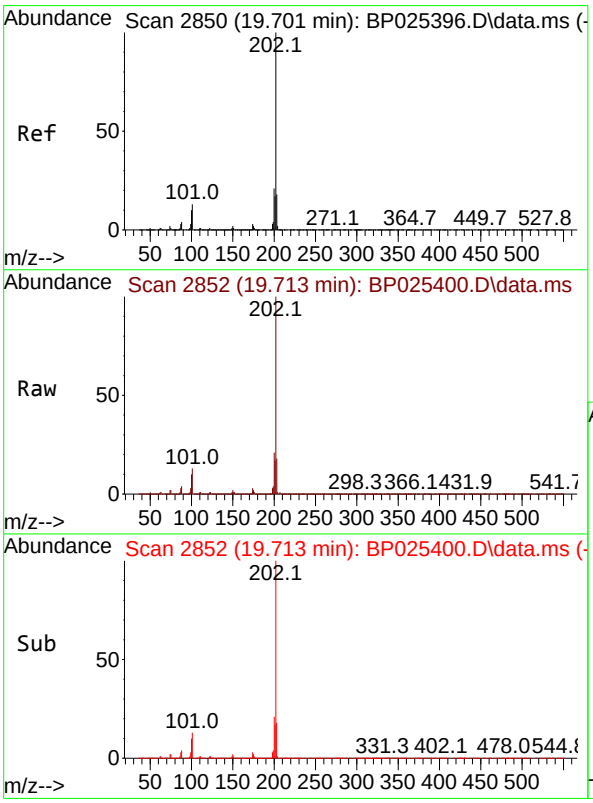
#77
Benzidine
Concen: 42.271 ng
RT: 19.519 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Instrument :
BNA_P
ClientSampleId :
ICVBP081425

Tgt Ion:184 Resp: 1529656

Ion	Ratio	Lower	Upper
184	100		
185	13.9	11.5	17.3
183	12.1	9.4	14.2

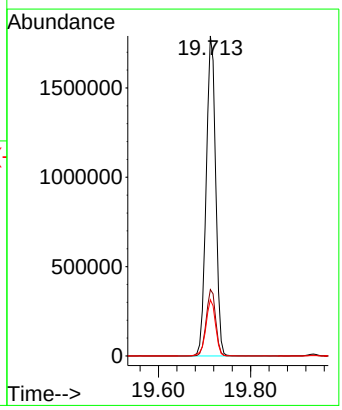


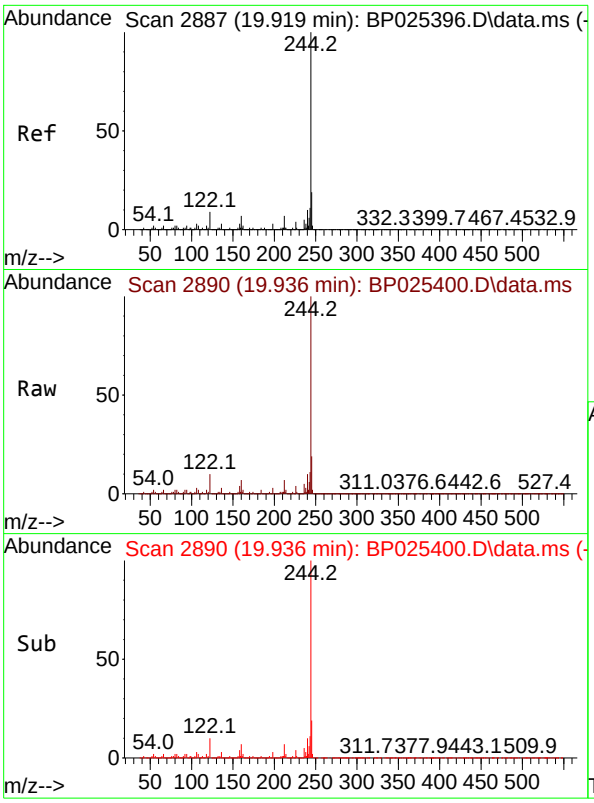


#78
Pyrene
Concen: 37.404 ng
RT: 19.713 min Scan# 2852
Delta R.T. 0.012 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:202 Resp: 2577810

Ion	Ratio	Lower	Upper
202	100		
200	20.8	16.9	25.3
203	17.5	14.2	21.2



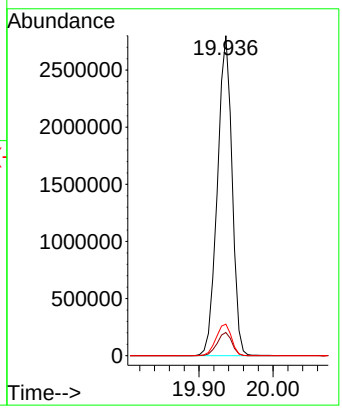


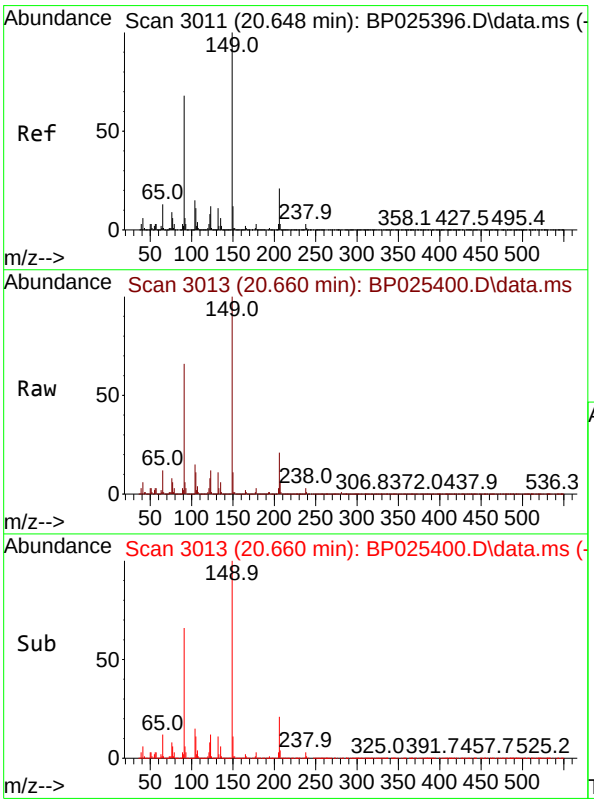
#79
Terphenyl-d14
Concen: 66.399 ng
RT: 19.936 min Scan# 2
Delta R.T. 0.018 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Instrument :
BNA_P
ClientSampleId :
ICVBP081425

Tgt Ion:244 Resp: 3848160

Ion	Ratio	Lower	Upper
244	100		
212	7.2	5.8	8.6
122	9.9	7.4	11.2

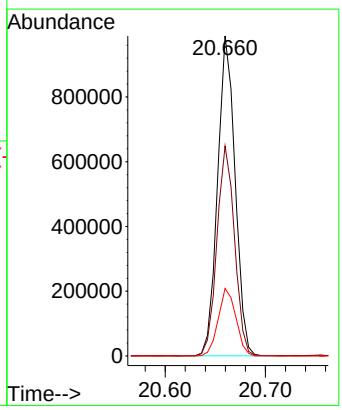


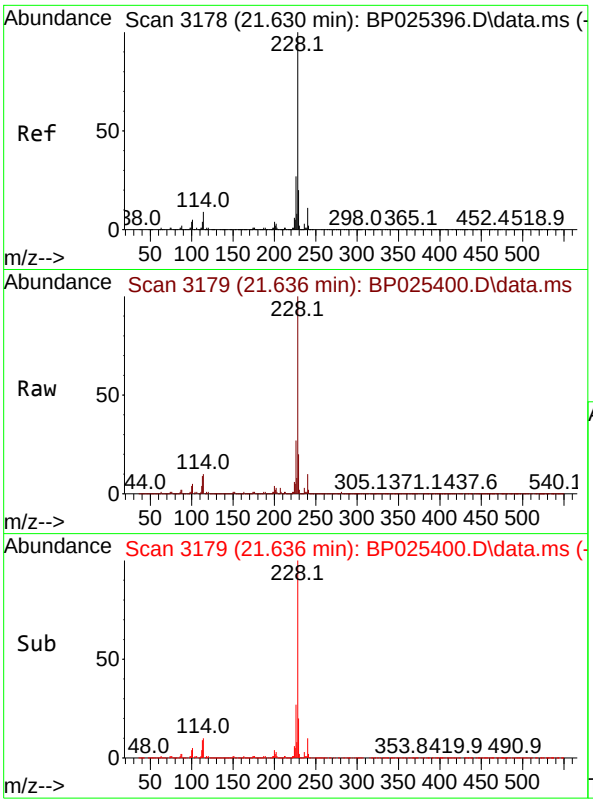


#80
Butylbenzylphthalate
Concen: 38.401 ng
RT: 20.660 min Scan# 3013
Delta R.T. 0.012 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:149 Resp: 1199445

Ion	Ratio	Lower	Upper
149	100		
91	65.6	54.2	81.2
206	21.1	16.6	24.8



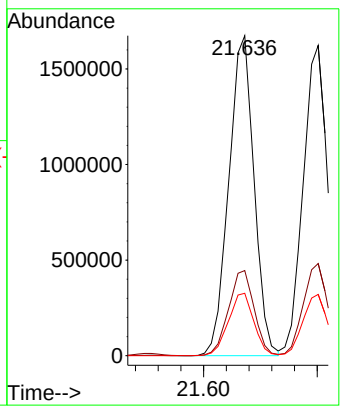


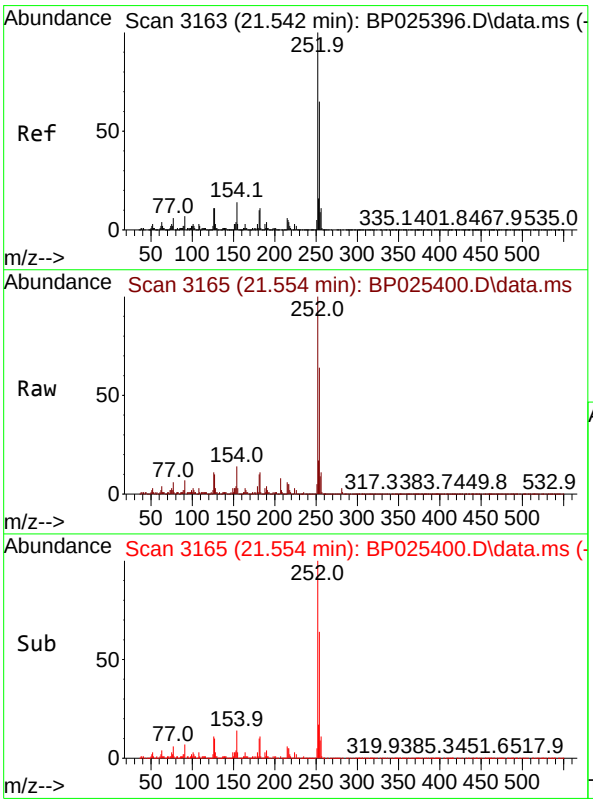
#81
Benzo(a)anthracene
Concen: 36.950 ng
RT: 21.636 min Scan# 3
Delta R.T. 0.006 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Instrument :
BNA_P
ClientSampleId :
ICVBP081425

Tgt Ion:228 Resp: 2583866

Ion	Ratio	Lower	Upper
228	100		
226	26.6	21.7	32.5
229	19.5	15.6	23.4

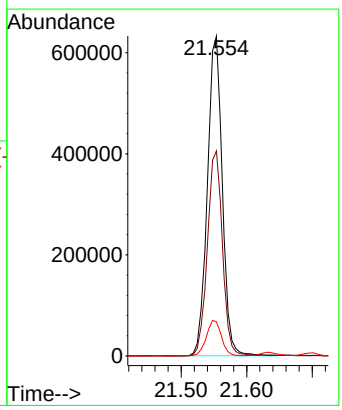


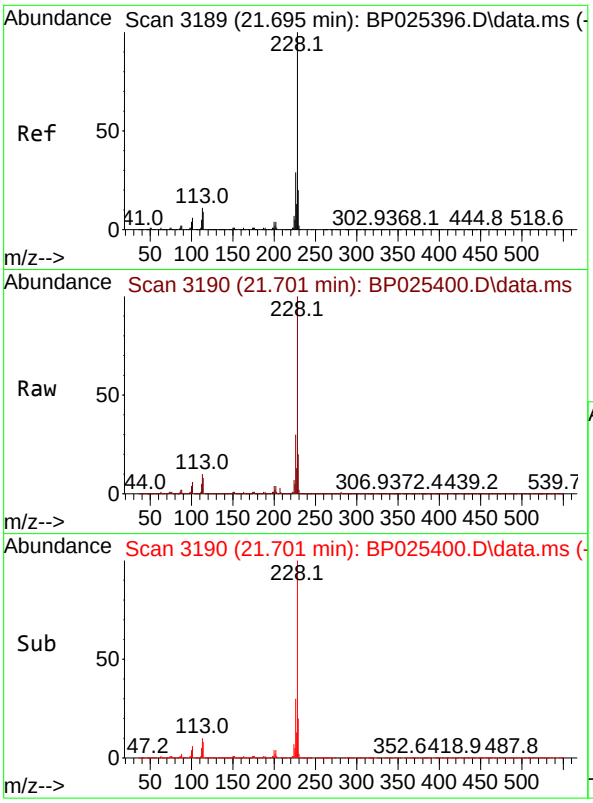


#82
3,3'-Dichlorobenzidine
Concen: 38.038 ng
RT: 21.554 min Scan# 3165
Delta R.T. 0.012 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:252 Resp: 1002597

Ion	Ratio	Lower	Upper
252	100		
254	64.1	51.8	77.6
126	10.7	9.1	13.7



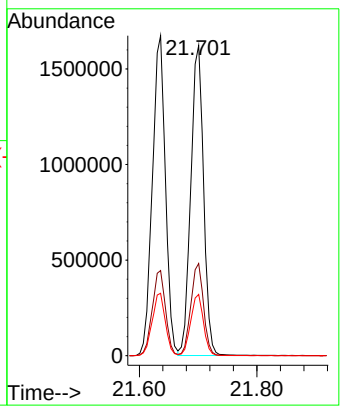


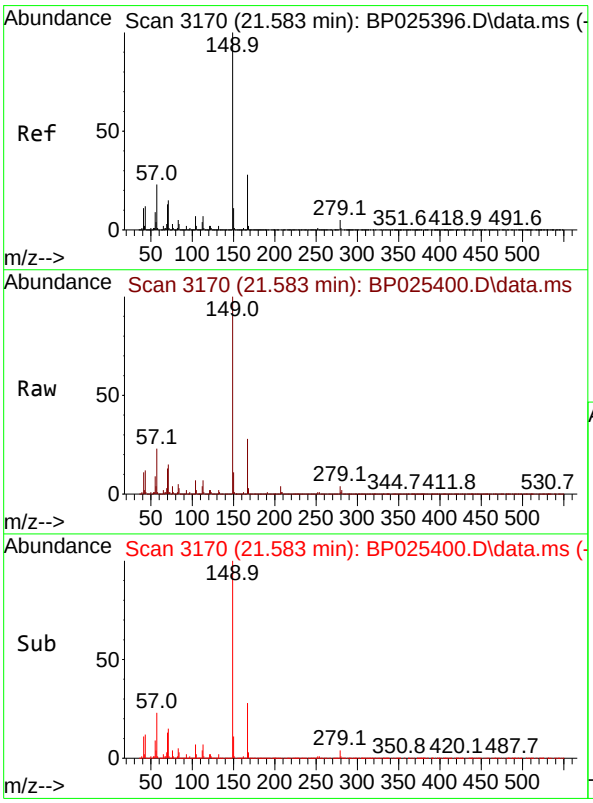
#83
Chrysene
Concen: 37.353 ng
RT: 21.701 min Scan# 3
Delta R.T. 0.006 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Instrument :
BNA_P
ClientSampleId :
ICVBP081425

Tgt Ion:228 Resp: 2446197

Ion	Ratio	Lower	Upper
228	100		
226	29.7	23.2	34.8
229	19.7	15.6	23.4

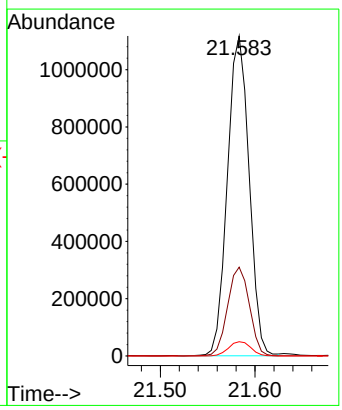


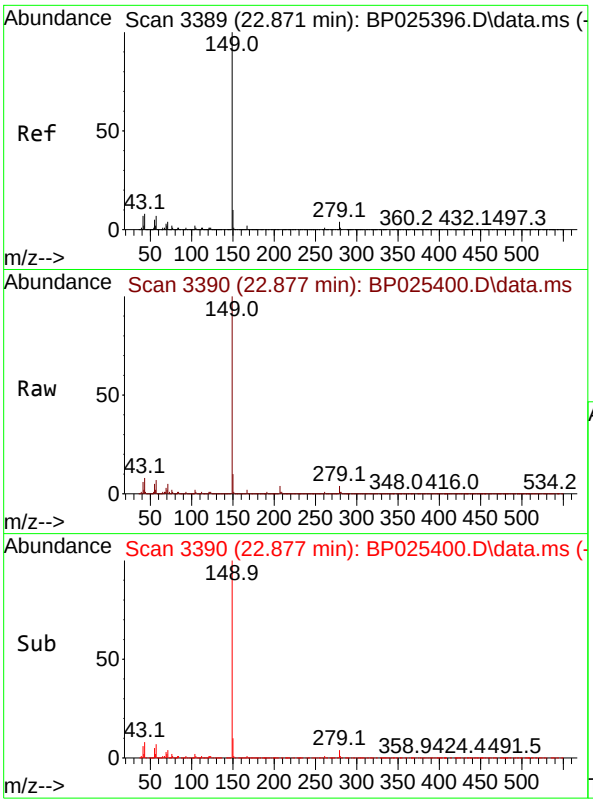


#84
Bis(2-ethylhexyl)phthalate
Concen: 38.729 ng
RT: 21.583 min Scan# 3170
Delta R.T. 0.000 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:149 Resp: 1780746

Ion	Ratio	Lower	Upper
149	100		
167	27.8	22.1	33.1
279	4.5	3.8	5.6



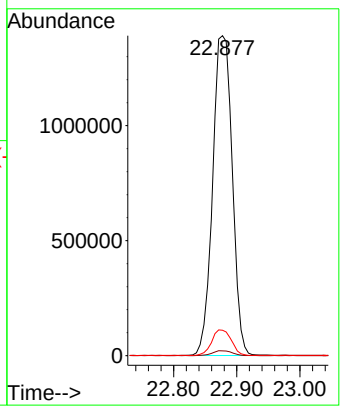


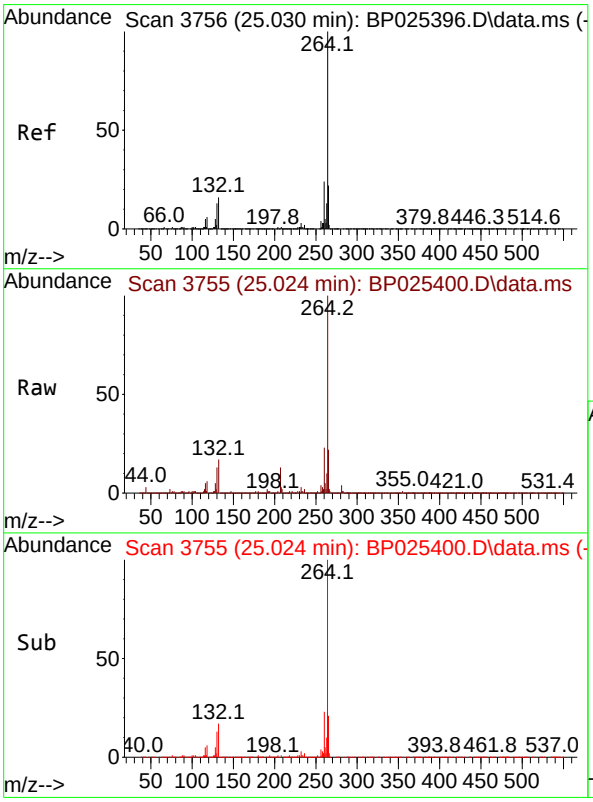
#85
Di-n-octyl phthalate
Concen: 37.915 ng
RT: 22.877 min Scan# 3
Delta R.T. 0.006 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Instrument :
BNA_P
ClientSampleId :
ICVBP081425

Tgt Ion:149 Resp: 2998528

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	8.0	6.3	9.5

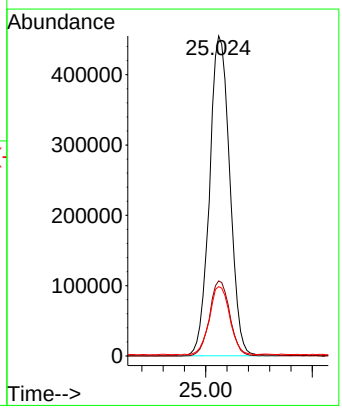


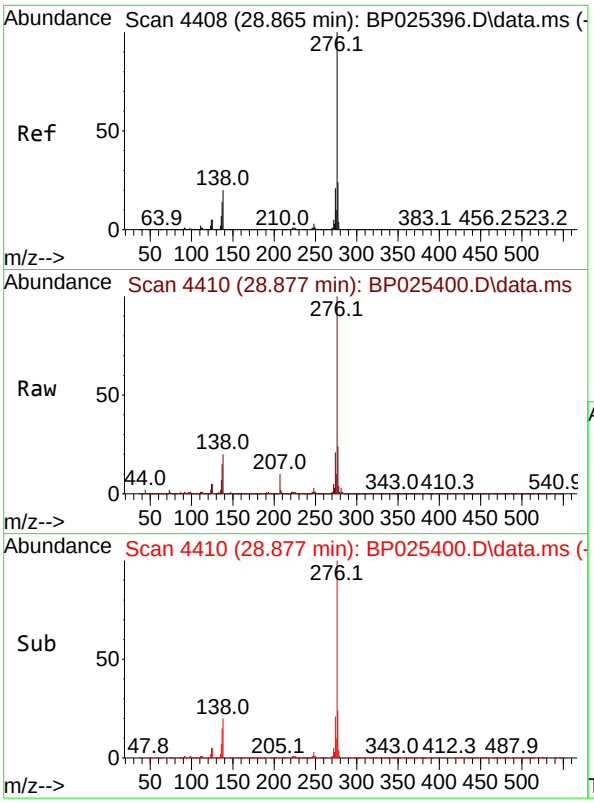


#86
Perylene-d12
Concen: 20.000 ng
RT: 25.024 min Scan# 3755
Delta R.T. -0.006 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:264 Resp: 1200519

Ion	Ratio	Lower	Upper
264	100		
260	23.4	19.3	28.9
265	21.6	17.4	26.0



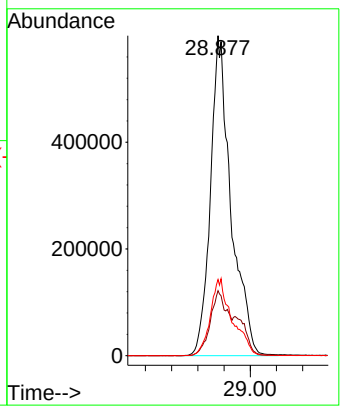


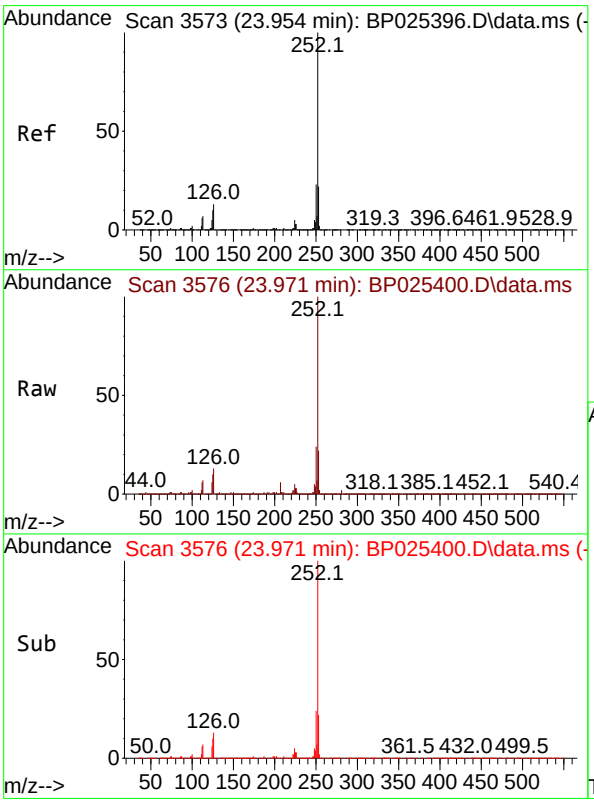
#87
Indeno(1,2,3-cd)pyrene
Concen: 37.119 ng
RT: 28.877 min Scan# 44
Delta R.T. 0.012 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Instrument :
BNA_P
ClientSampleId :
ICVBP081425

Tgt Ion:276 Resp: 3267965

Ion	Ratio	Lower	Upper
276	100		
138	17.0	12.9	19.3
277	25.5	17.0	25.6

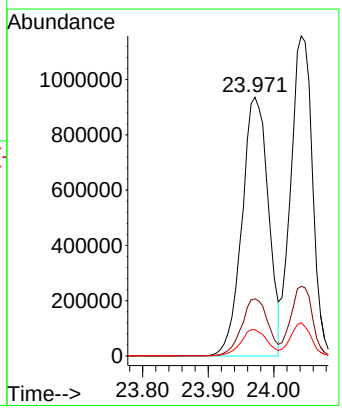


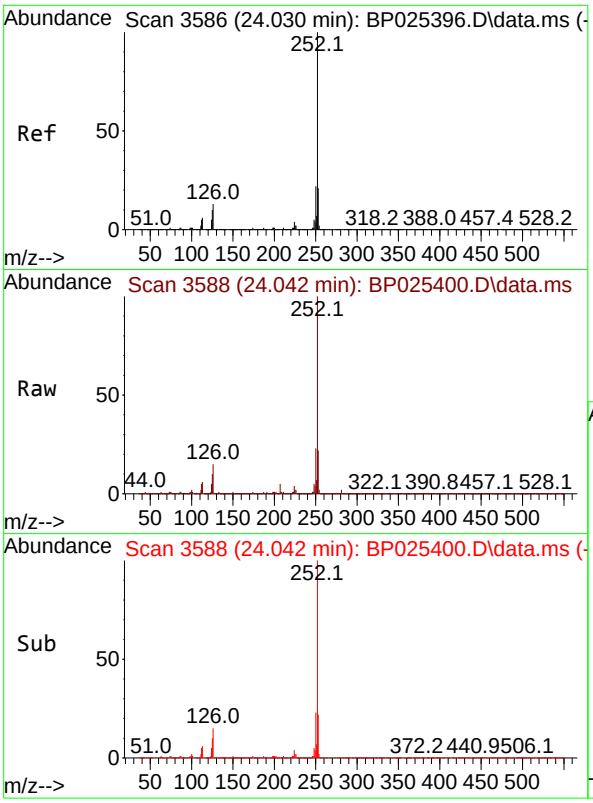


#88
Benzo(b)fluoranthene
Concen: 36.964 ng
RT: 23.971 min Scan# 3576
Delta R.T. 0.018 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:252 Resp: 2616701

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.7	26.5
125	10.2	7.9	11.9



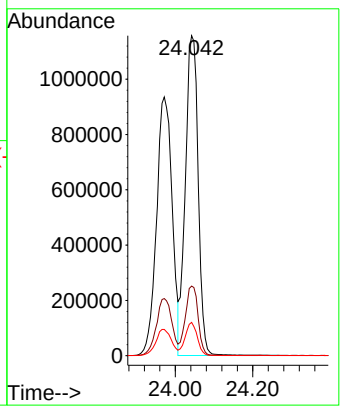


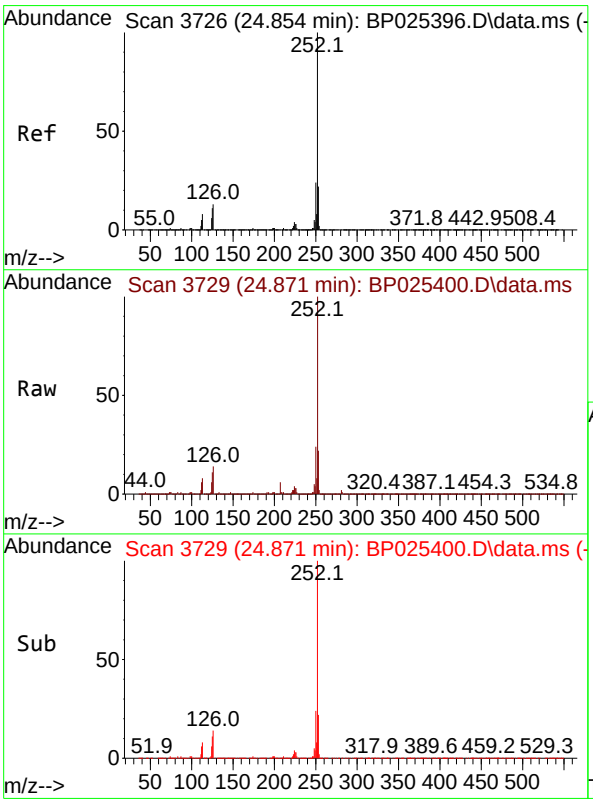
#89
Benzo(k)fluoranthene
Concen: 37.464 ng
RT: 24.042 min Scan# 3
Delta R.T. 0.012 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Instrument :
BNA_P
ClientSampleId :
ICVBP081425

Tgt Ion:252 Resp: 2653905

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.1	25.7
125	10.4	7.8	11.6

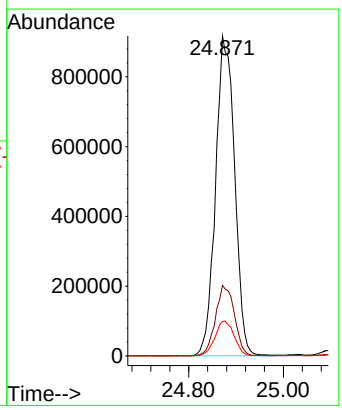


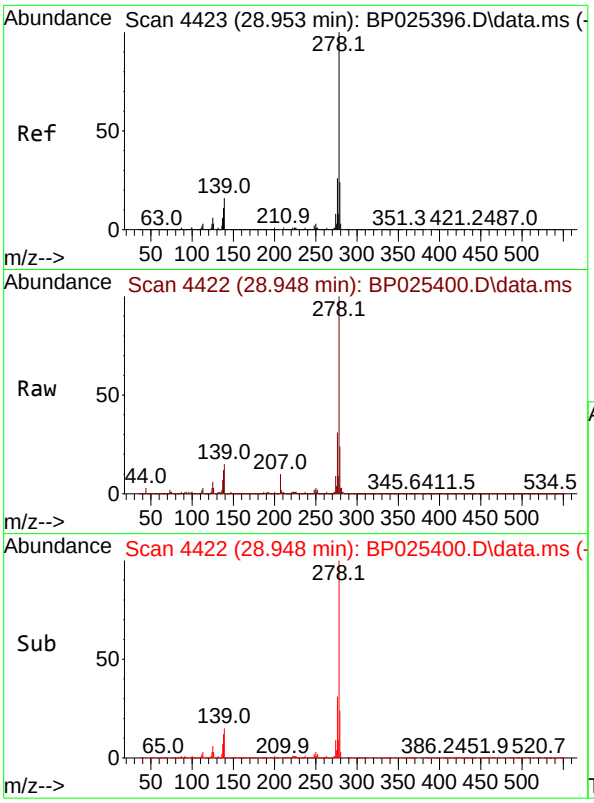


#90
Benzo(a)pyrene
Concen: 37.160 ng
RT: 24.871 min Scan# 3729
Delta R.T. 0.018 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:252 Resp: 2560692

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.5	26.3
125	10.7	8.7	13.1



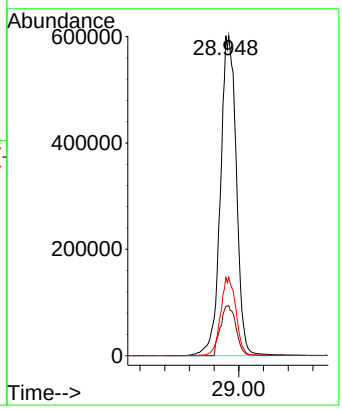


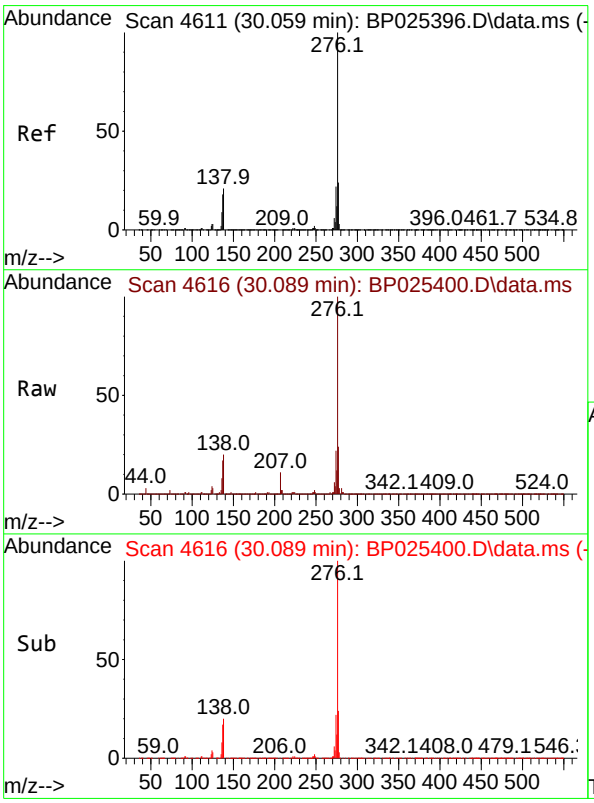
#91
Dibenzo(a,h)anthracene
Concen: 37.490 ng
RT: 28.948 min Scan# 4
Delta R.T. -0.006 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Instrument :
BNA_P
ClientSampleId :
ICVBP081425

Tgt Ion:278 Resp: 2697336

Ion	Ratio	Lower	Upper
278	100		
139	15.4	13.0	19.4
279	24.4	19.4	29.2

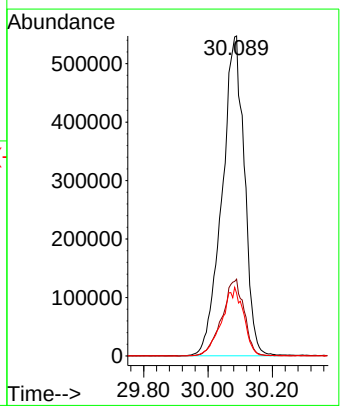




#92
Benzo(g,h,i)perylene
Concen: 37.216 ng
RT: 30.089 min Scan# 4616
Delta R.T. 0.029 min
Lab File: BP025400.D
Acq: 14 Aug 2025 18:05

Tgt Ion:276 Resp: 2632085

Ion	Ratio	Lower	Upper
276	100		
277	24.0	19.4	29.0
138	19.6	16.7	25.1



Quantitation Report (Not Reviewed)

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Acq On : 19 Aug 2025 23:46
Operator : CG/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Quant Time: Aug 20 02:26:31 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.790	152	159158	20.000	ng	0.00
21) Naphthalene-d8	10.560	136	679178	20.000	ng	0.00
39) Acenaphthene-d10	14.413	164	450864	20.000	ng	0.00
64) Phenanthrene-d10	17.207	188	905283	20.000	ng	0.00
76) Chrysene-d12	21.642	240	932001	20.000	ng	0.00
86) Perylene-d12	25.012	264	1054169	20.000	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.407	112	766191	79.946	ng	0.00
7) Phenol-d6	6.966	99	999385	81.335	ng	0.00
23) Nitrobenzene-d5	8.931	82	1089412	81.140	ng	0.00
42) 2,4,6-Tribromophenol	15.919	330	501941	82.710	ng	0.00
45) 2-Fluorobiphenyl	13.019	172	2539096	76.967	ng	0.00
79) Terphenyl-d14	19.930	244	3955073	77.640	ng	0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	3.331	88	146798	39.105	ng	98
3) Pyridine	3.725	79	399648	38.896	ng	95
4) n-Nitrosodimethylamine	3.631	42	183947	43.424	ng	91
6) Aniline	7.119	93	673487	40.682	ng	98
8) 2-Chlorophenol	7.360	128	442242	40.892	ng	99
9) Benzaldehyde	6.937	77	278873	32.395	ng	97
10) Phenol	6.990	94	528660	41.003	ng	96
11) bis(2-Chloroethyl)ether	7.213	93	403740	40.176	ng	99
12) 1,3-Dichlorobenzene	7.678	146	477680	40.056	ng	99
13) 1,4-Dichlorobenzene	7.825	146	485332	39.818	ng	99
14) 1,2-Dichlorobenzene	8.137	146	470101	39.843	ng	100
15) Benzyl Alcohol	8.019	79	396938	40.657	ng	97
16) 2,2'-oxybis(1-Chloropr...	8.307	45	567987	42.192	ng	98
17) 2-Methylphenol	8.219	107	366688	40.950	ng	99
18) Hexachloroethane	8.860	117	180159	40.200	ng	97
19) n-Nitroso-di-n-propyla...	8.584	70	332906	40.903	ng	97
20) 3+4-Methylphenols	8.542	107	500121	40.292	ng	98
22) Acetophenone	8.595	105	683834	40.149	ng	98
24) Nitrobenzene	8.972	77	491390	40.951	ng	99
25) Isophorone	9.501	82	957661	40.304	ng	100
26) 2-Nitrophenol	9.678	139	251156	40.785	ng	99
27) 2,4-Dimethylphenol	9.736	122	428351	40.448	ng	98
28) bis(2-Chloroethoxy)met...	9.966	93	579381	40.338	ng	99
29) 2,4-Dichlorophenol	10.207	162	424988	40.398	ng	98
30) 1,2,4-Trichlorobenzene	10.425	180	449563	38.983	ng	100
31) Naphthalene	10.613	128	1406520	39.844	ng	99
32) Benzoic acid	9.895	122	408095	52.196	ng	97
33) 4-Chloroaniline	10.713	127	634028	40.661	ng	99
34) Hexachlorobutadiene	10.901	225	280821	39.100	ng	98
35) Caprolactam	11.501	113	158902	41.192	ng	98
36) 4-Chloro-3-methylphenol	11.836	107	498499	41.295	ng	98
37) 2-Methylnaphthalene	12.219	142	914456	39.806	ng	97
38) 1-Methylnaphthalene	12.436	142	964168	39.466	ng	100
40) 1,2,4,5-Tetrachloroben...	12.583	216	515884	39.618	ng	99
41) Hexachlorocyclopentadiene	12.566	237	362128	46.040	ng	99
43) 2,4,6-Trichlorophenol	12.825	196	360300	40.986	ng	99

Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081925\
Data File : BP025487.D
Acq On : 19 Aug 2025 23:46
Operator : CG/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Quant Time: Aug 20 02:26:31 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration

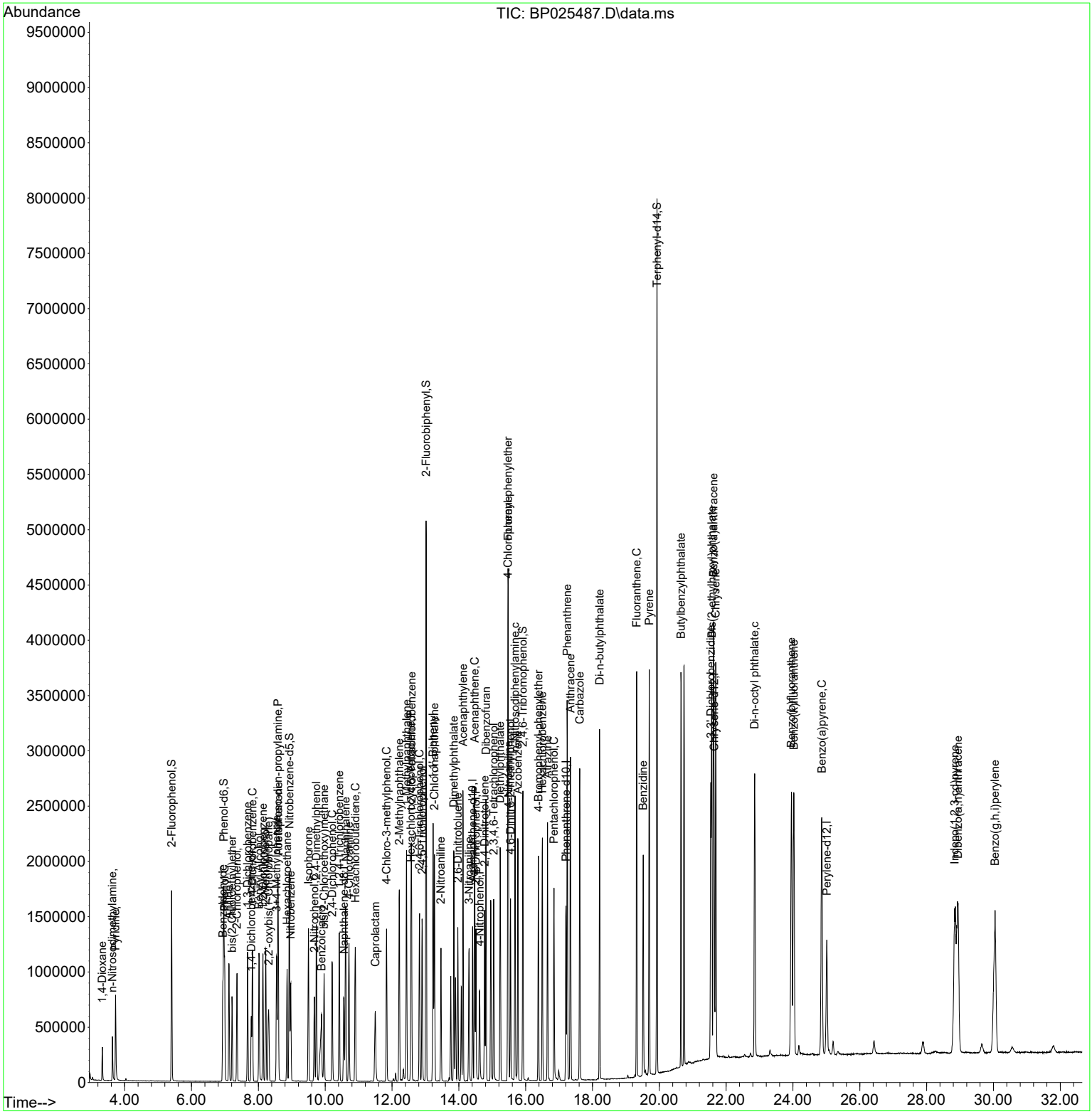
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	12.901	196	399763	41.492	ng		98
46) 1,1'-Biphenyl	13.230	154	1318412	40.264	ng		100
47) 2-Chloronaphthalene	13.272	162	1019352	39.989	ng		99
48) 2-Nitroaniline	13.466	65	324159	43.643	ng		98
49) Acenaphthylene	14.124	152	1703788	40.393	ng		100
50) Dimethylphthalate	13.854	163	1355491	41.055	ng		100
51) 2,6-Dinitrotoluene	13.972	165	294671	42.345	ng		93
52) Acenaphthene	14.472	154	965696	39.004	ng		99
53) 3-Nitroaniline	14.307	138	330858	42.258	ng		94
54) 2,4-Dinitrophenol	14.513	184	299007	80.460	ng		97
55) Dibenzofuran	14.813	168	1541513	39.380	ng		100
56) 4-Nitrophenol	14.624	139	271237	42.159	ng		97
57) 2,4-Dinitrotoluene	14.772	165	428628	43.171	ng		97
58) Fluorene	15.477	166	1201420	38.896	ng		100
59) 2,3,4,6-Tetrachlorophenol	15.042	232	350101	41.154	ng		98
60) Diethylphthalate	15.236	149	1386072	41.316	ng		99
61) 4-Chlorophenyl-phenyle...	15.466	204	598934	38.989	ng		96
62) 4-Nitroaniline	15.489	138	331726	41.329	ng		93
63) Azobenzene	15.766	77	1240846	43.196	ng		98
65) 4,6-Dinitro-2-methylph...	15.548	198	322240	57.103	ng		94
66) n-Nitrosodiphenylamine	15.683	169	1132449	41.022	ng		99
67) 4-Bromophenyl-phenylether	16.383	248	402714	40.448	ng		98
68) Hexachlorobenzene	16.501	284	461625	39.997	ng		97
69) Atrazine	16.654	200	420453	40.669	ng		99
70) Pentachlorophenol	16.848	266	307884	42.259	ng		98
71) Phenanthrene	17.242	178	1961812	39.449	ng		99
72) Anthracene	17.342	178	2071008	40.780	ng		99
73) Carbazole	17.618	167	1903889	39.801	ng		99
74) Di-n-butylphthalate	18.212	149	2414257	41.022	ng		100
75) Fluoranthene	19.324	202	2322167	39.147	ng		98
77) Benzidine	19.518	184	1232065	38.735	ng		100
78) Pyrene	19.701	202	2394461	39.527	ng		100
80) Butylbenzylphthalate	20.654	149	1127547	41.070	ng		98
81) Benzo(a)anthracene	21.624	228	2426505	39.477	ng		100
82) 3,3'-Dichlorobenzidine	21.542	252	903654	39.005	ng		98
83) Chrysene	21.689	228	2294146	39.855	ng		99
84) Bis(2-ethylhexyl)phtha...	21.571	149	1659835	41.071	ng		99
85) Di-n-octyl phthalate	22.853	149	2843533	40.906	ng		99
87) Indeno(1,2,3-cd)pyrene	28.841	276	1338699	17.316	ng	#	73
88) Benzo(b)fluoranthene	23.953	252	2471608	39.761	ng		99
89) Benzo(k)fluoranthene	24.030	252	2451237	39.407	ng		99
90) Benzo(a)pyrene	24.865	252	2406620	39.773	ng		99
91) Dibenzo(a,h)anthracene	28.941	278	2487038	39.366	ng		98
92) Benzo(g,h,i)perylene	30.047	276	2423566	39.026	ng		98

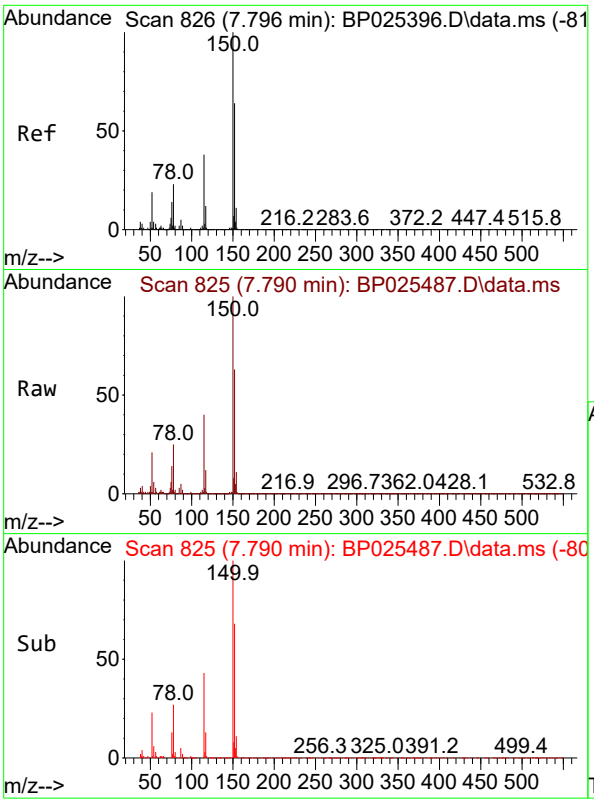
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081925\
Data File : BP025487.D
Acq On : 19 Aug 2025 23:46
Operator : CG/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Quant Time: Aug 20 02:26:31 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration



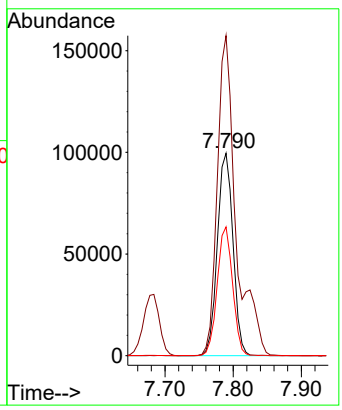


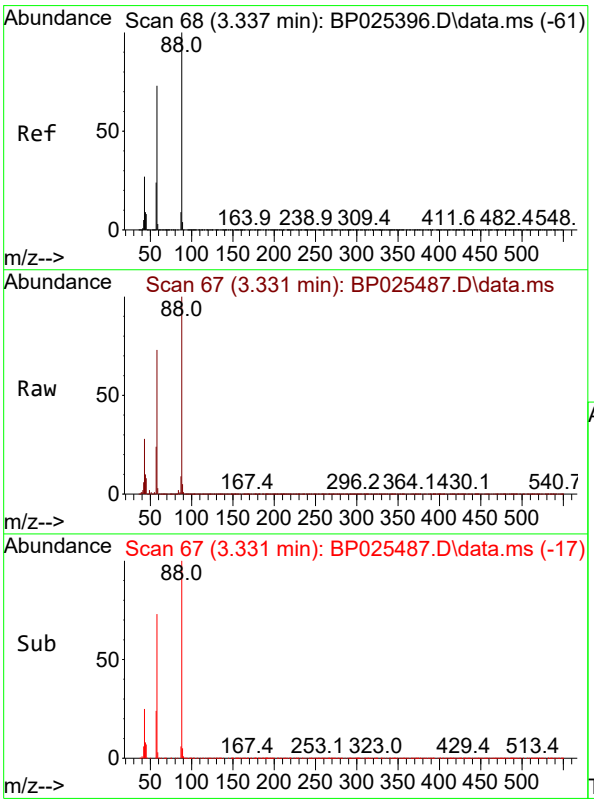
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.790 min Scan# 8
Delta R.T. -0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:152 Resp: 159158

Ion	Ratio	Lower	Upper
152	100		
150	158.1	125.9	188.9
115	63.6	48.5	72.7

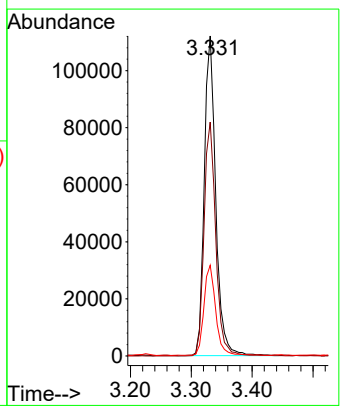


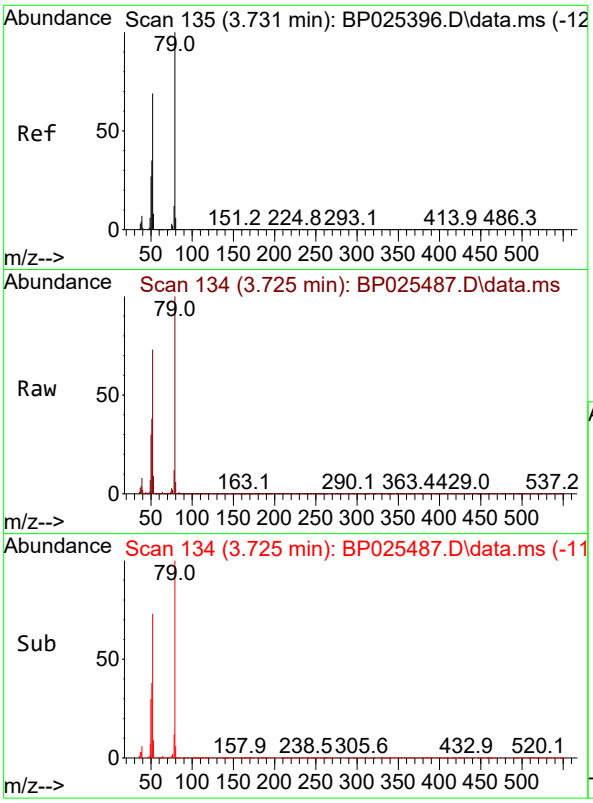


#2
1,4-Dioxane
Concen: 39.105 ng
RT: 3.331 min Scan# 67
Delta R.T. -0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion: 88 Resp: 146798

Ion	Ratio	Lower	Upper
88	100		
58	75.0	59.2	88.8
43	28.8	21.7	32.5



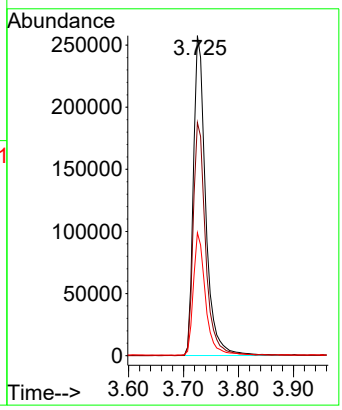


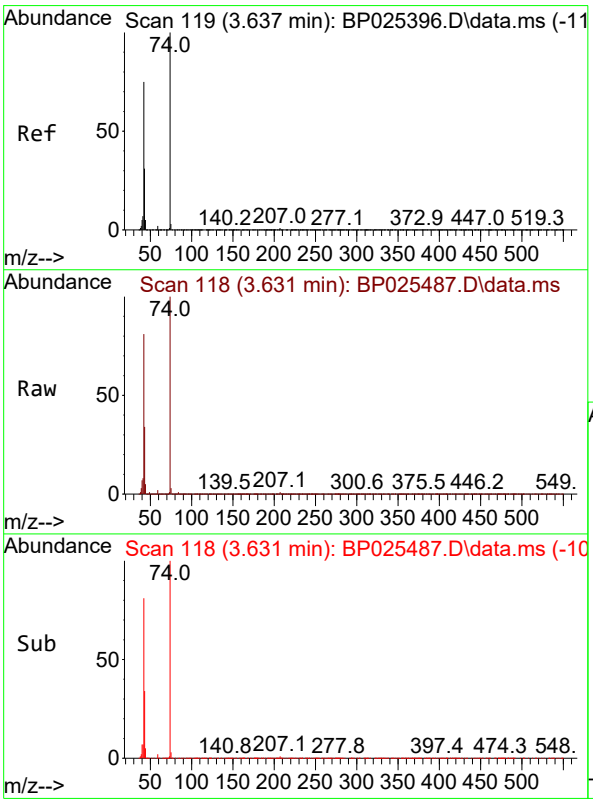
#3
Pyridine
Concen: 38.896 ng
RT: 3.725 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion: 79 Resp: 399648

Ion	Ratio	Lower	Upper
79	100		
52	72.9	55.5	83.3
51	38.4	28.3	42.5

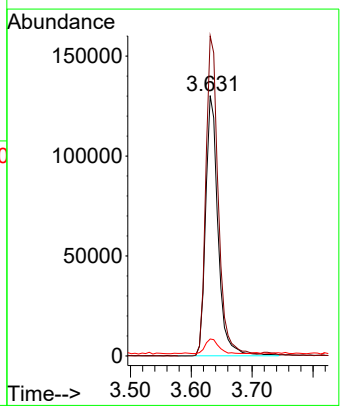


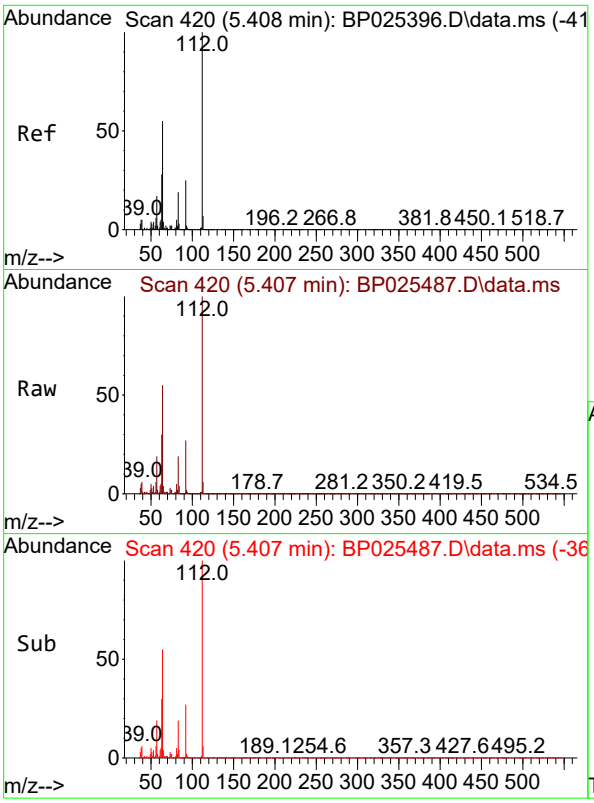


#4
n-Nitrosodimethylamine
Concen: 43.424 ng
RT: 3.631 min Scan# 118
Delta R.T. -0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion: 42 Resp: 183947

Ion	Ratio	Lower	Upper
42	100		
74	122.9	107.0	160.4
44	6.5	6.2	9.4



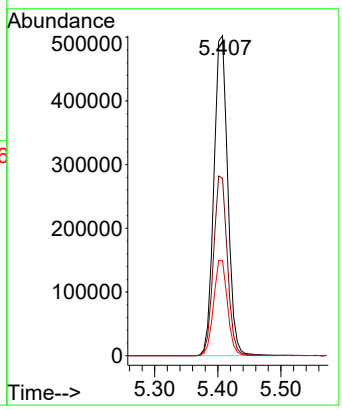


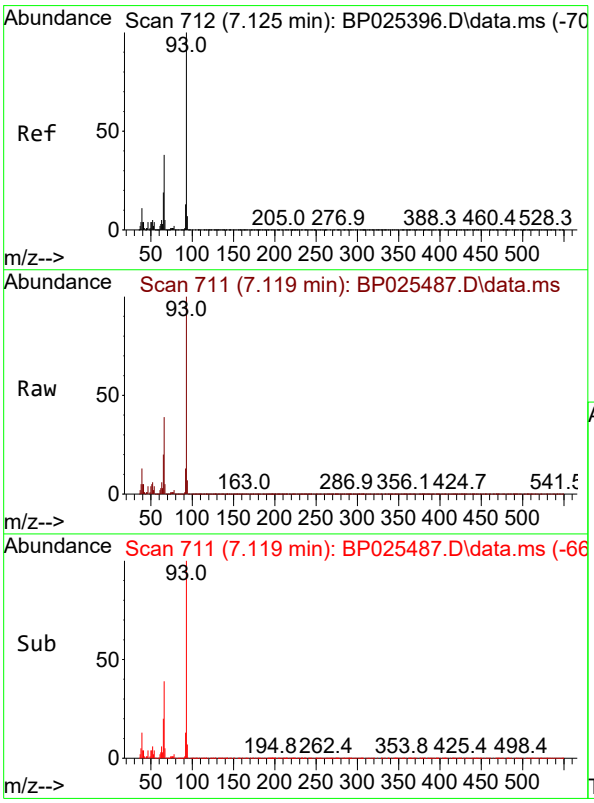
#5
2-Fluorophenol
Concen: 79.946 ng
RT: 5.407 min Scan# 4
Delta R.T. -0.000 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:112 Resp: 766191

Ion	Ratio	Lower	Upper
112	100		
64	55.4	43.8	65.8
63	29.7	22.7	34.1

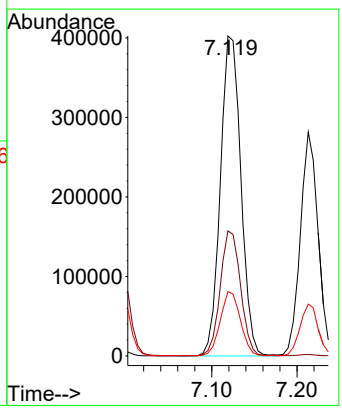


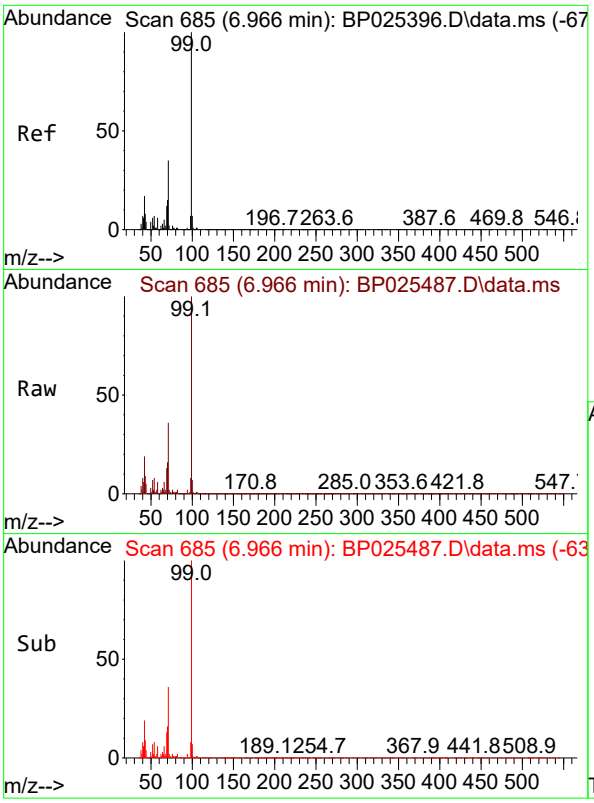


#6
Aniline
Concen: 40.682 ng
RT: 7.119 min Scan# 711
Delta R.T. -0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion: 93 Resp: 673487

Ion	Ratio	Lower	Upper
93	100		
66	39.1	30.4	45.6
65	20.1	15.3	22.9



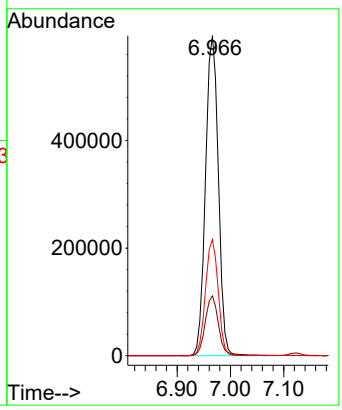


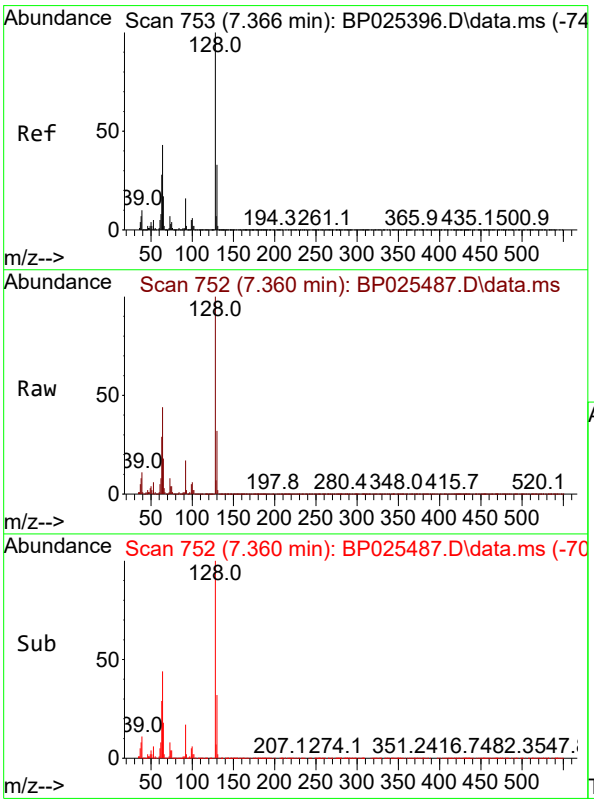
#7
Phenol-d6
Concen: 81.335 ng
RT: 6.966 min Scan# 6
Delta R.T. -0.000 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion: 99 Resp: 999385

Ion	Ratio	Lower	Upper
99	100		
42	18.7	13.7	20.5
71	36.3	28.2	42.4

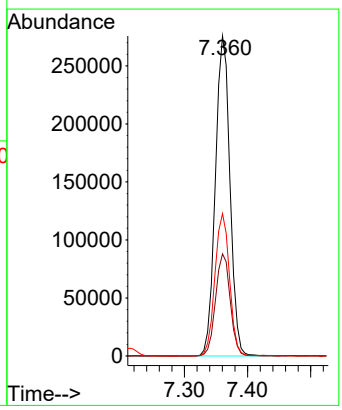


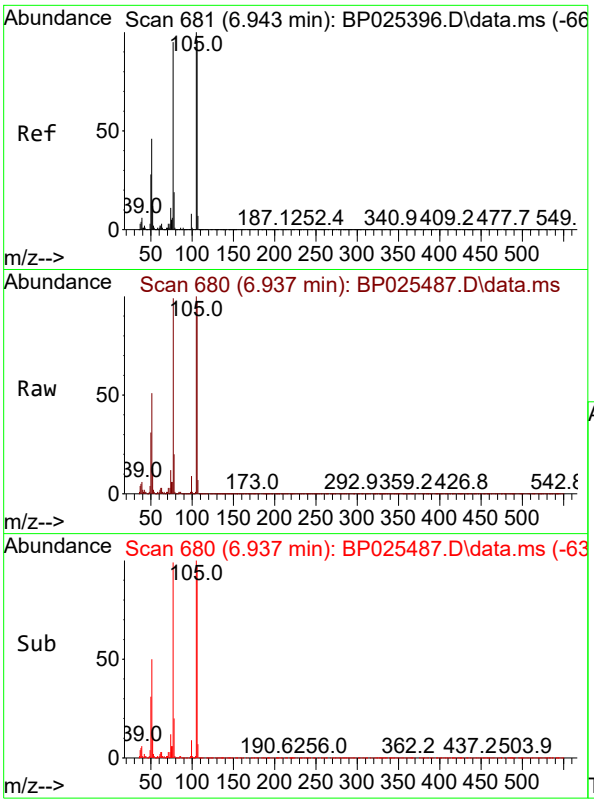


#8
2-Chlorophenol
Concen: 40.892 ng
RT: 7.360 min Scan# 752
Delta R.T. -0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:128 Resp: 442242

Ion	Ratio	Lower	Upper
128	100		
130	31.9	12.6	52.6
64	44.5	23.4	63.4



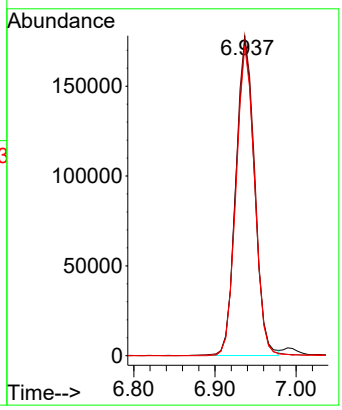


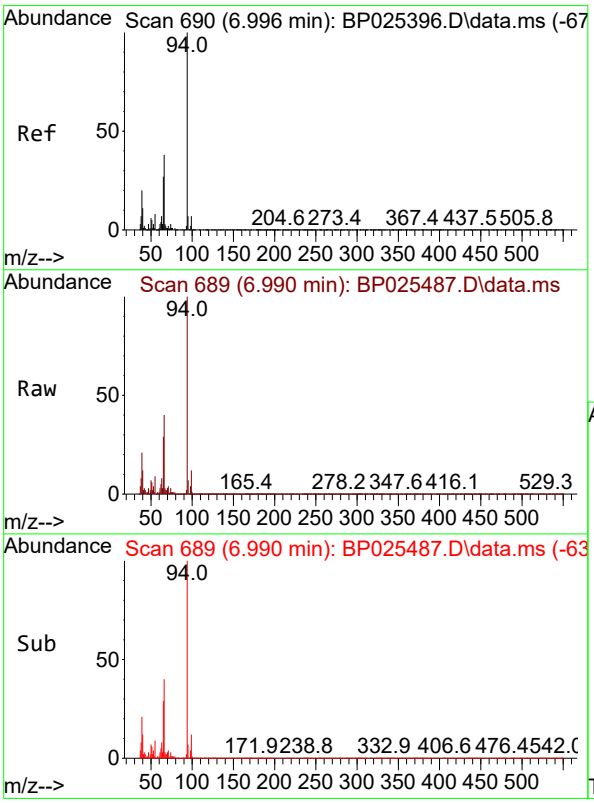
#9
Benzaldehyde
Concen: 32.395 ng
RT: 6.937 min Scan# 6
Delta R.T. -0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion: 77 Resp: 278873

Ion	Ratio	Lower	Upper
77	100		
105	101.2	84.8	124.8
106	97.9	80.5	120.5

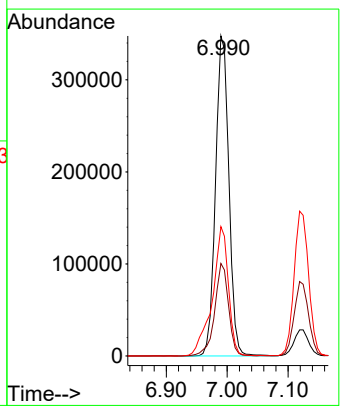


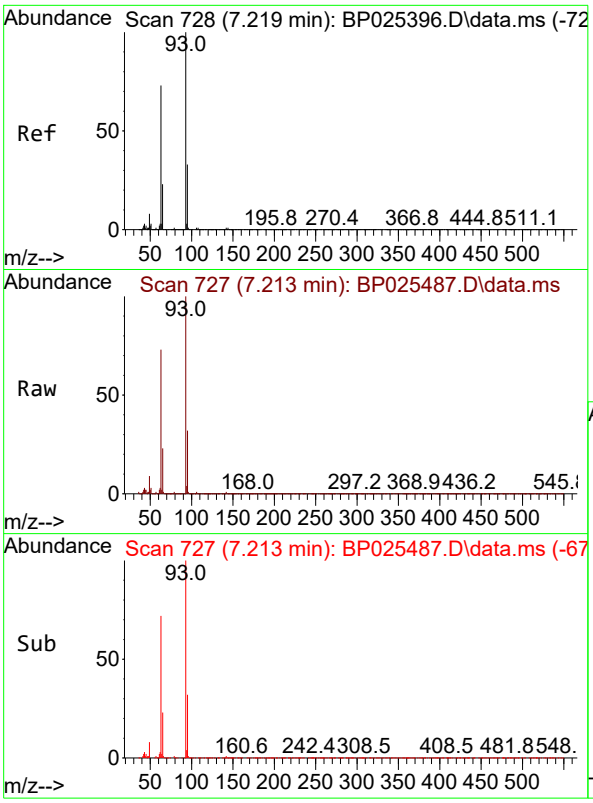


#10
Phenol
Concen: 41.003 ng
RT: 6.990 min Scan# 689
Delta R.T. -0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion: 94 Resp: 528660

Ion	Ratio	Lower	Upper
94	100		
65	28.9	6.8	46.8
66	40.4	18.2	58.2



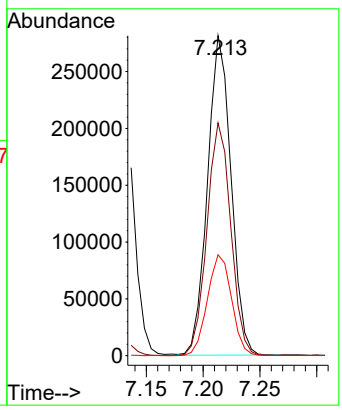


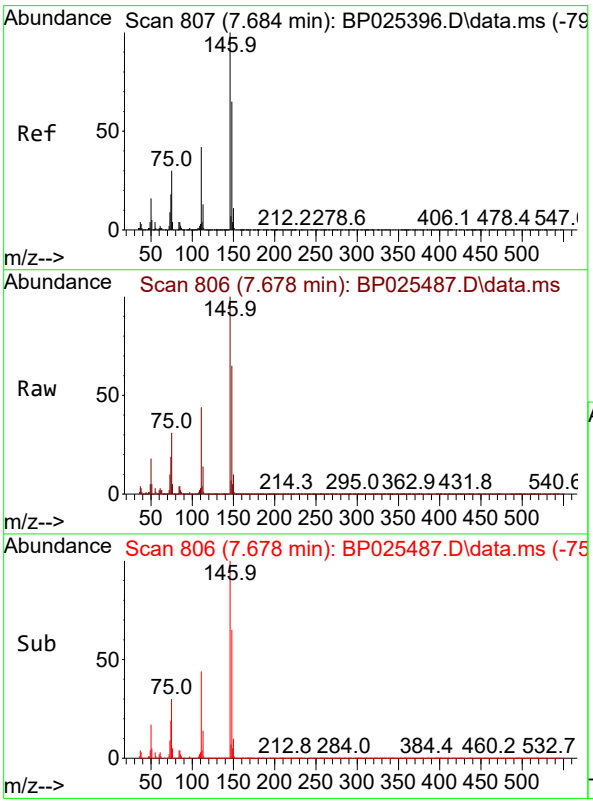
#11
bis(2-Chloroethyl)ether
Concen: 40.176 ng
RT: 7.213 min Scan# 7
Delta R.T. -0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion: 93 Resp: 403740

Ion	Ratio	Lower	Upper
93	100		
63	72.7	52.6	92.6
95	31.5	12.7	52.7

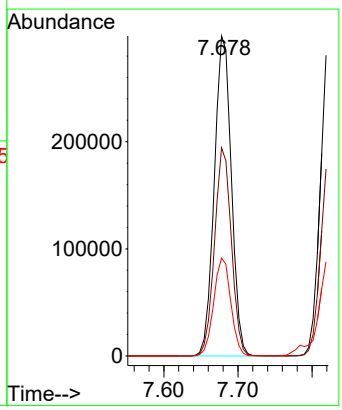


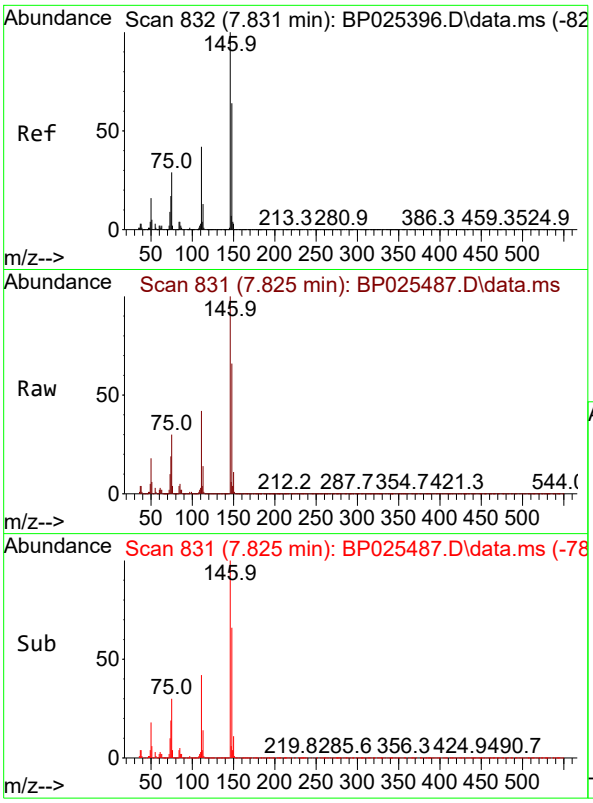


#12
1,3-Dichlorobenzene
Concen: 40.056 ng
RT: 7.678 min Scan# 806
Delta R.T. -0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:146 Resp: 477680

Ion	Ratio	Lower	Upper
146	100		
148	65.0	51.9	77.9
75	30.6	23.7	35.5



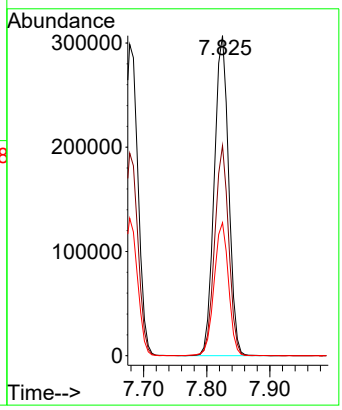


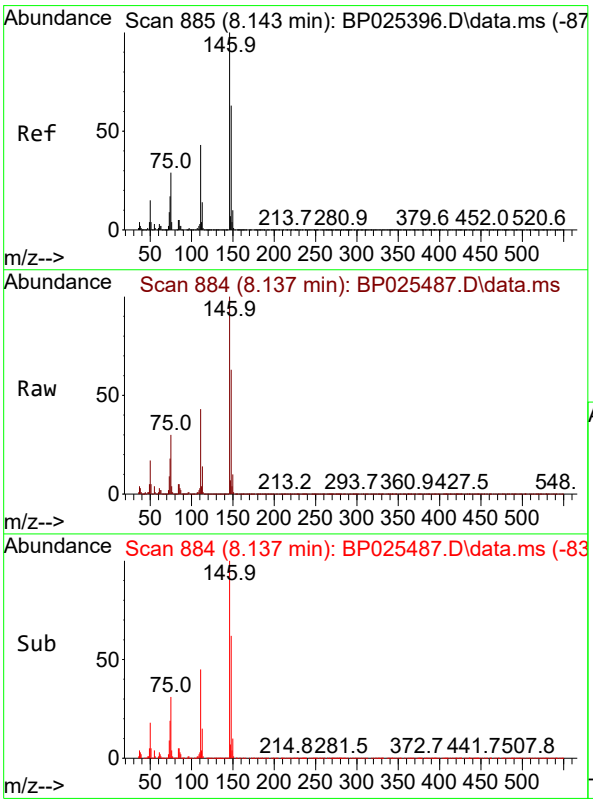
#13
1,4-Dichlorobenzene
Concen: 39.818 ng
RT: 7.825 min Scan# 8
Delta R.T. -0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:146 Resp: 485332

Ion	Ratio	Lower	Upper
146	100		
148	65.6	51.6	77.4
111	41.6	33.4	50.0

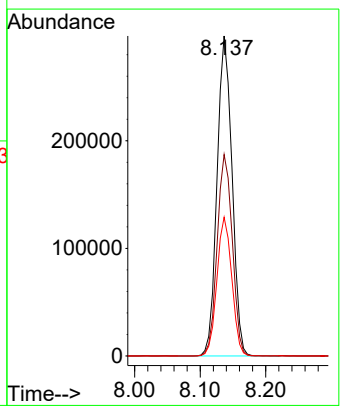


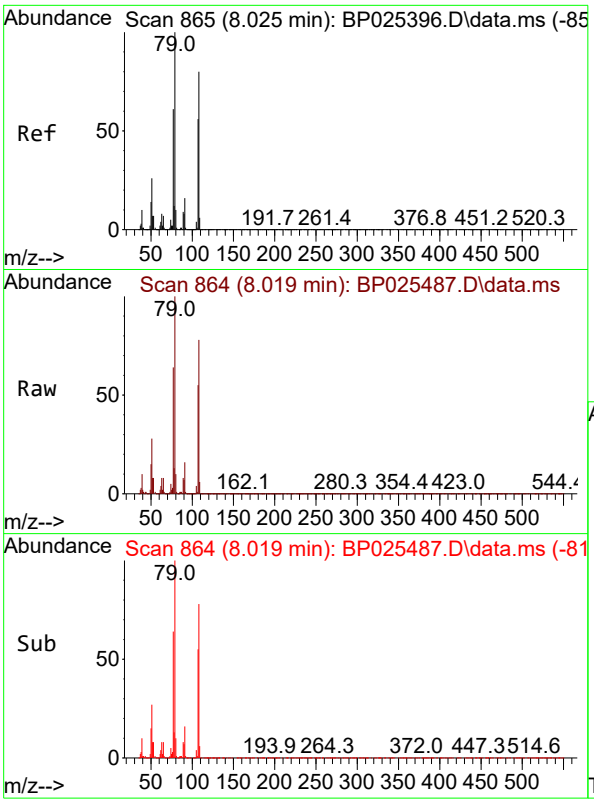


#14
1,2-Dichlorobenzene
Concen: 39.843 ng
RT: 8.137 min Scan# 884
Delta R.T. -0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:146 Resp: 470101

Ion	Ratio	Lower	Upper
146	100		
148	63.0	50.4	75.6
111	43.3	34.5	51.7



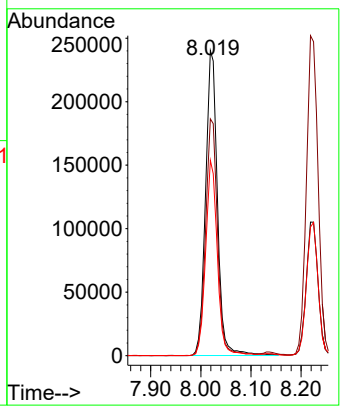


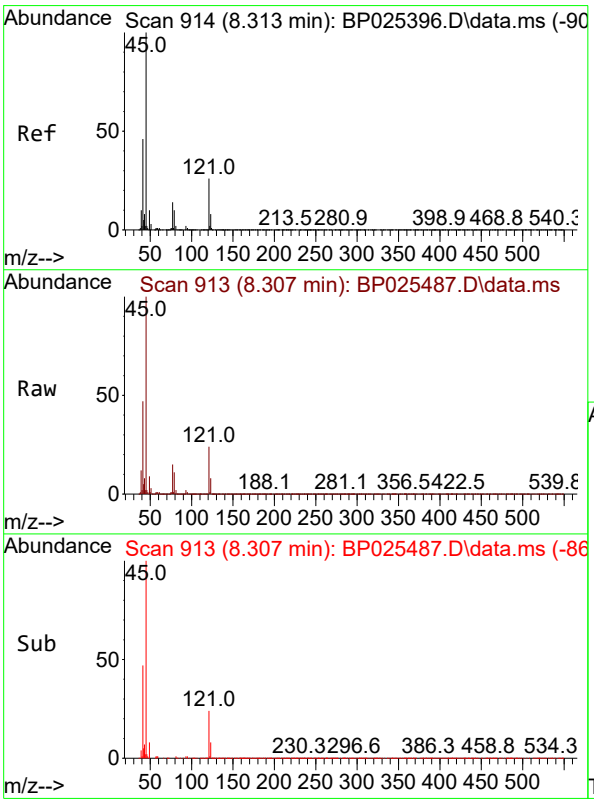
#15
Benzyl Alcohol
Concen: 40.657 ng
RT: 8.019 min Scan# 8
Delta R.T. -0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion: 79 Resp: 396938

Ion	Ratio	Lower	Upper
79	100		
108	77.6	63.8	95.6
77	64.0	49.0	73.4

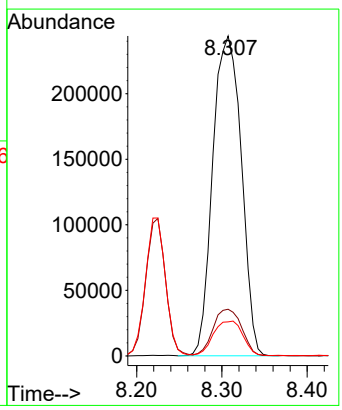


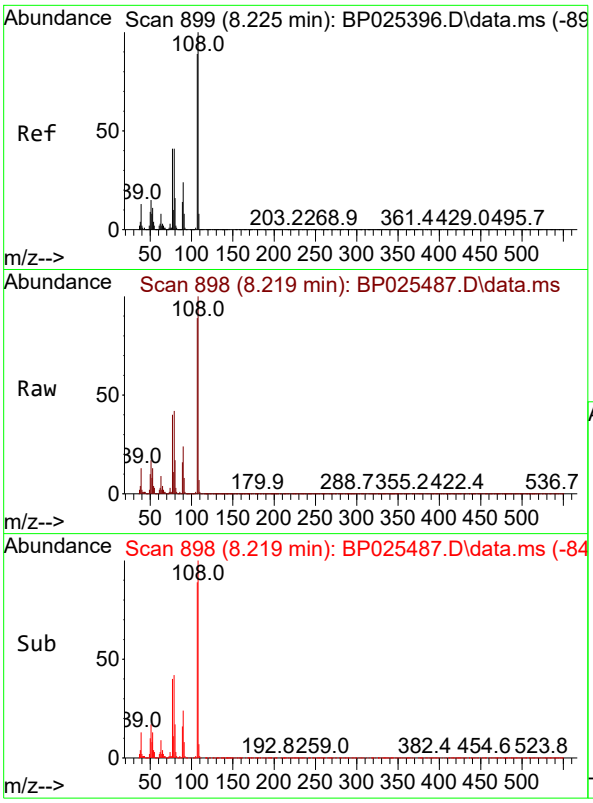


#16
2,2'-oxybis(1-Chloropropane)
Concen: 42.192 ng
RT: 8.307 min Scan# 913
Delta R.T. -0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion: 45 Resp: 567987

Ion	Ratio	Lower	Upper
45	100		
77	14.6	0.0	35.3
79	10.6	0.0	31.8



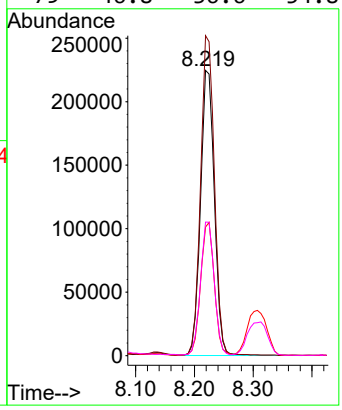


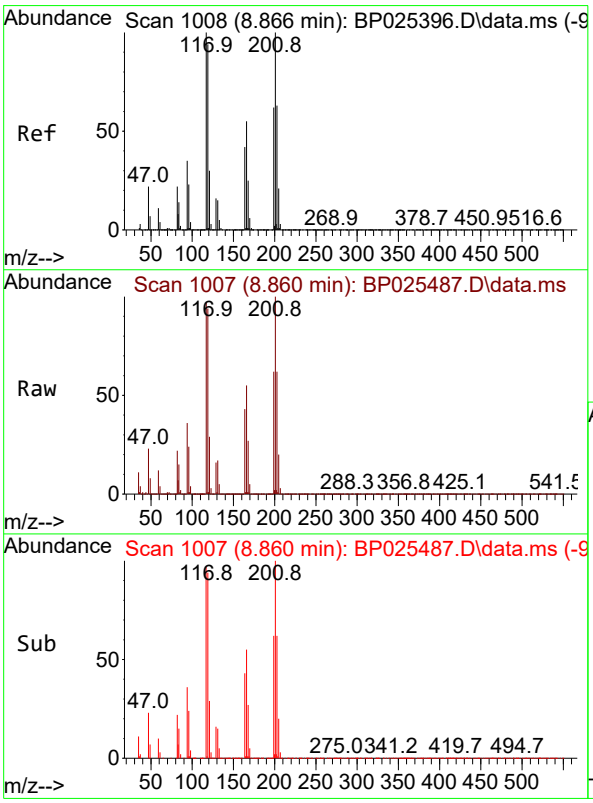
#17
2-Methylphenol
Concen: 40.950 ng
RT: 8.219 min Scan# 8
Delta R.T. -0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:107 Resp: 366688

Ion	Ratio	Lower	Upper
107	100		
108	112.2	89.4	134.0
77	45.1	36.3	54.5
79	46.8	36.6	54.8

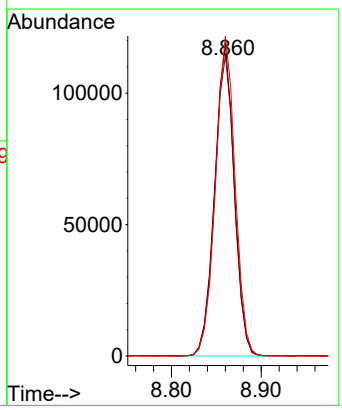


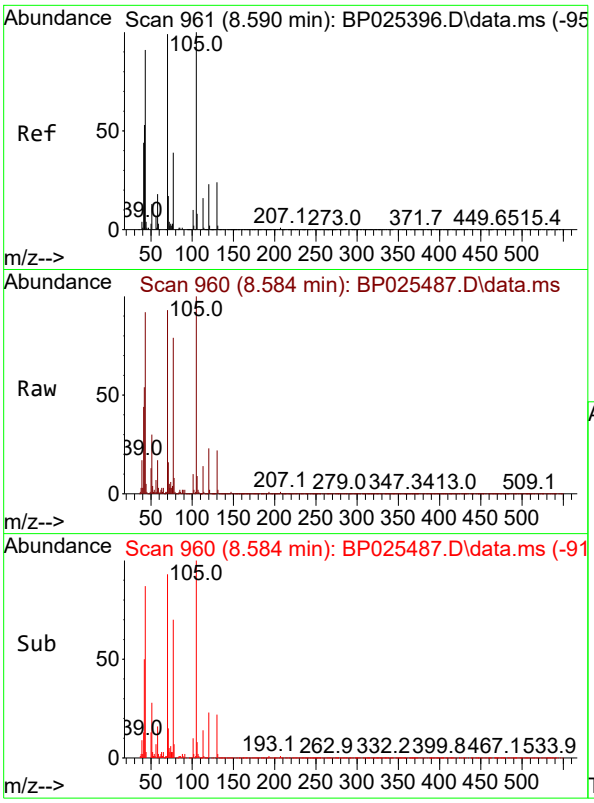


#18
Hexachloroethane
Concen: 40.200 ng
RT: 8.860 min Scan# 1007
Delta R.T. -0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:117 Resp: 180159

Ion	Ratio	Lower	Upper
117	100		
119	96.4	75.1	112.7
201	102.7	80.1	120.1



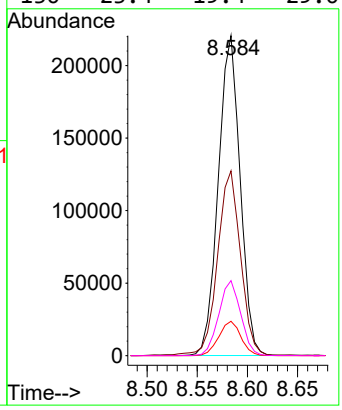


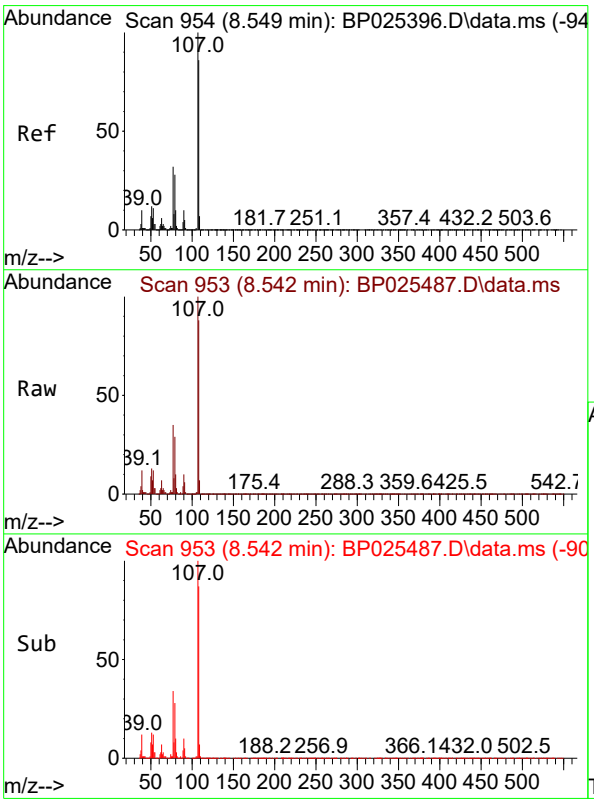
#19
n-Nitroso-di-n-propylamine
Concen: 40.903 ng
RT: 8.584 min Scan# 9
Delta R.T. -0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion: 70 Resp: 332906

Ion	Ratio	Lower	Upper
70	100		
42	57.8	43.8	65.6
101	10.7	8.5	12.7
130	23.4	19.4	29.0

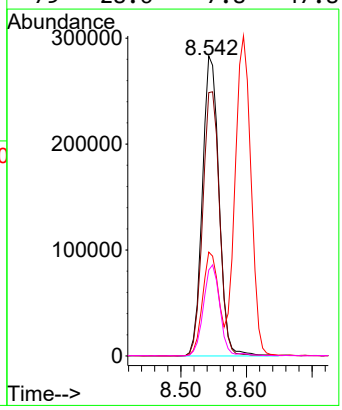


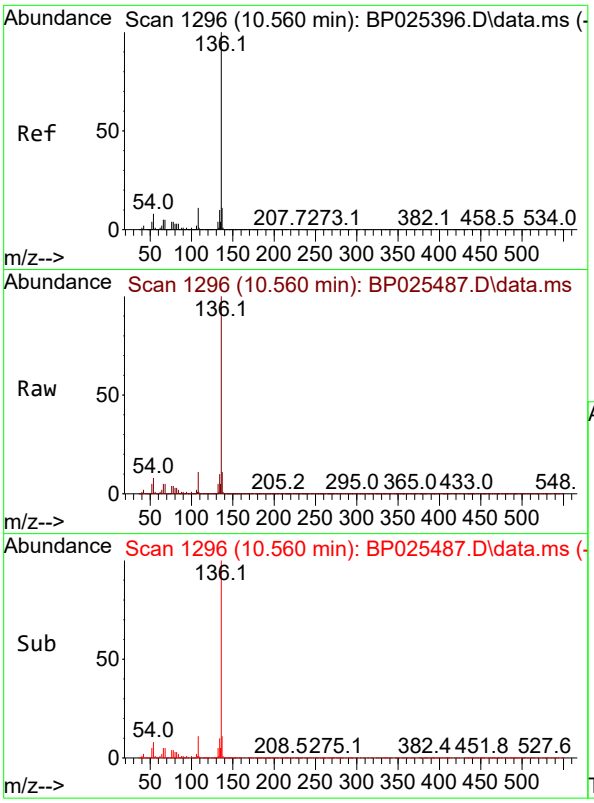


#20
3+4-Methylphenols
Concen: 40.292 ng
RT: 8.542 min Scan# 953
Delta R.T. -0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:107 Resp: 500121

Ion	Ratio	Lower	Upper
107	100		
108	87.8	66.3	106.3
77	34.6	12.3	52.3
79	28.6	7.8	47.8



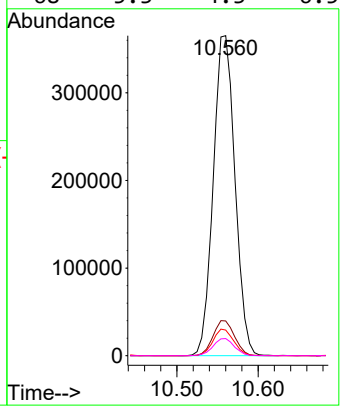


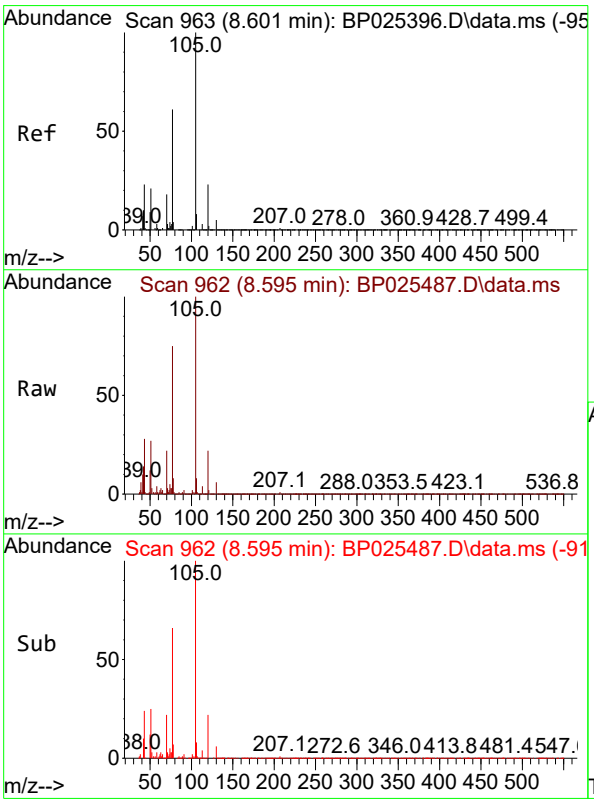
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.560 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:136 Resp: 679178

Ion	Ratio	Lower	Upper
136	100		
137	10.8	9.2	13.8
54	8.0	6.0	9.0
68	5.3	4.3	6.5

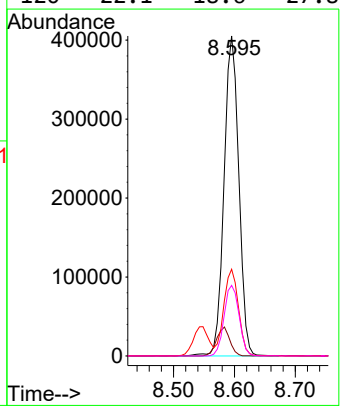


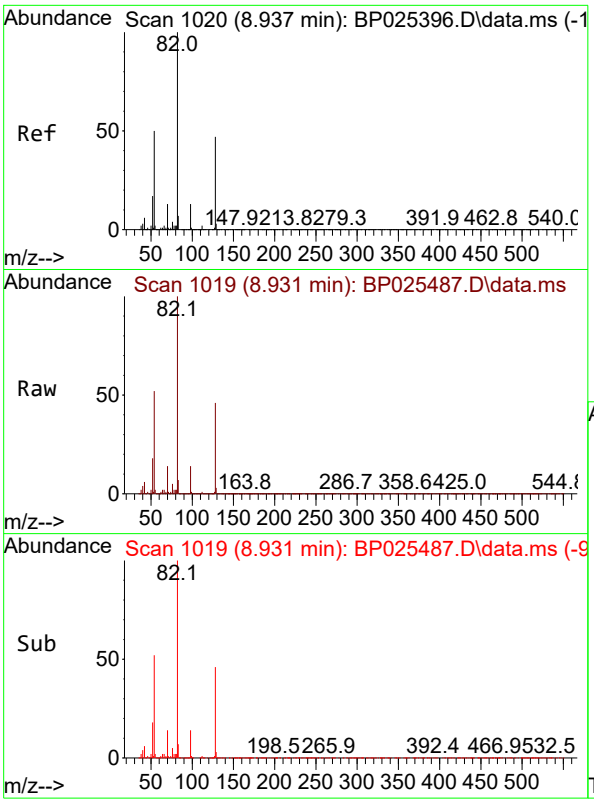


#22
Acetophenone
Concen: 40.149 ng
RT: 8.595 min Scan# 962
Delta R.T. -0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:105 Resp: 683834

Ion	Ratio	Lower	Upper
105	100		
71	3.4	2.6	4.0
51	27.1	20.6	30.8
120	22.1	18.6	27.8



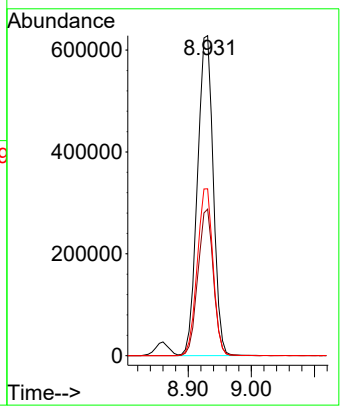


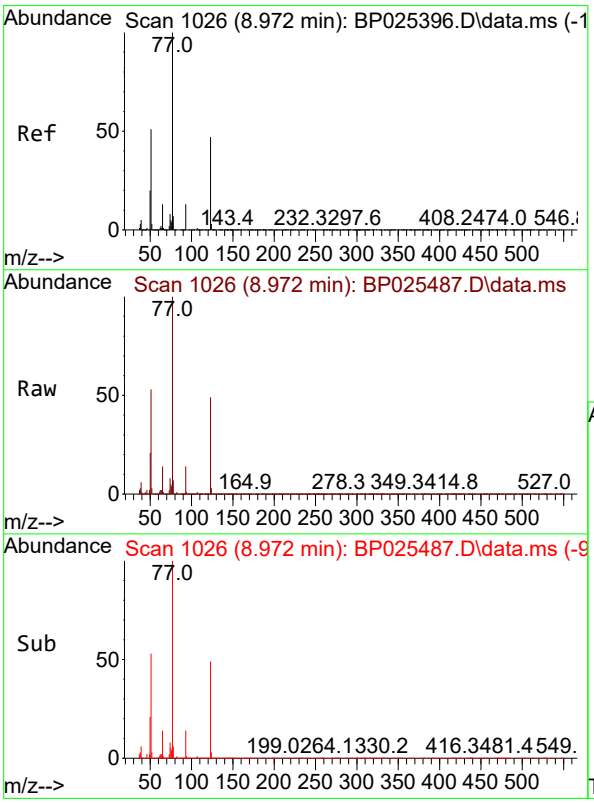
#23
Nitrobenzene-d5
Concen: 81.140 ng
RT: 8.931 min Scan# 1(
Delta R.T. -0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion: 82 Resp: 1089412

Ion	Ratio	Lower	Upper
82	100		
128	45.8	37.7	56.5
54	52.2	39.8	59.6

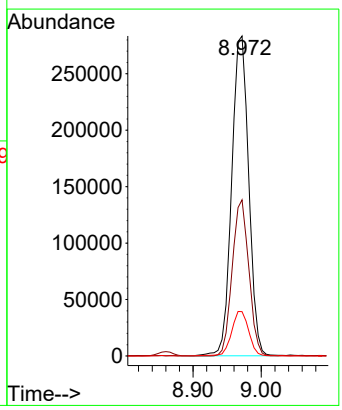


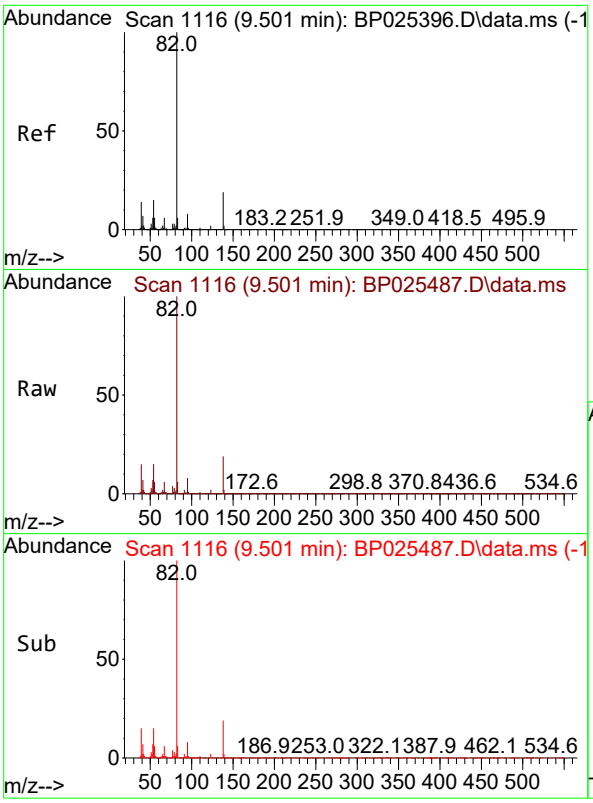


#24
Nitrobenzene
Concen: 40.951 ng
RT: 8.972 min Scan# 1026
Delta R.T. -0.000 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion: 77 Resp: 491390

Ion	Ratio	Lower	Upper
77	100		
123	48.8	38.6	58.0
65	13.9	10.6	15.8



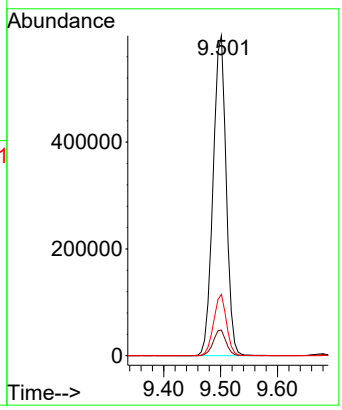


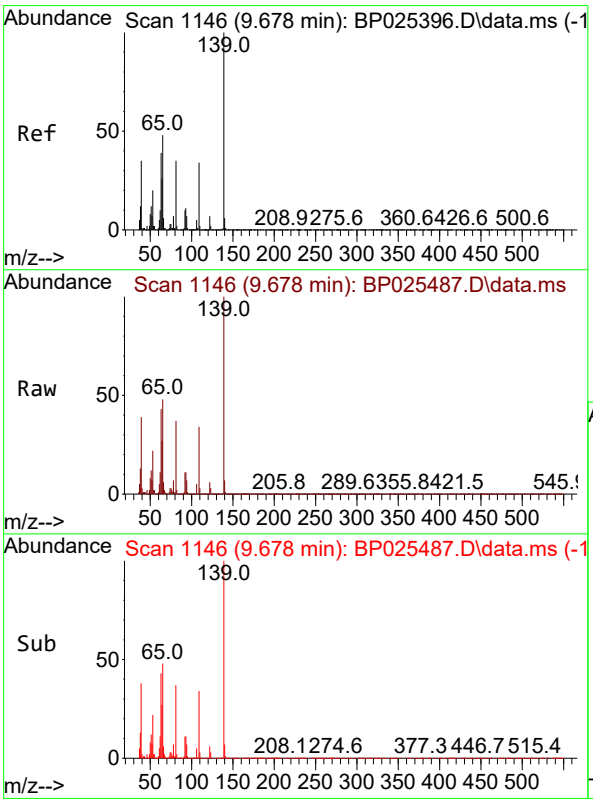
#25
Isophorone
Concen: 40.304 ng
RT: 9.501 min Scan# 11
Delta R.T. -0.000 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion: 82 Resp: 957661

Ion	Ratio	Lower	Upper
82	100		
95	8.0	6.4	9.6
138	19.2	15.4	23.0

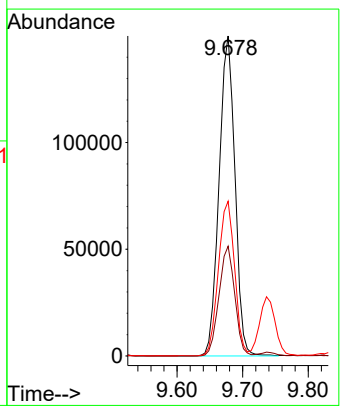


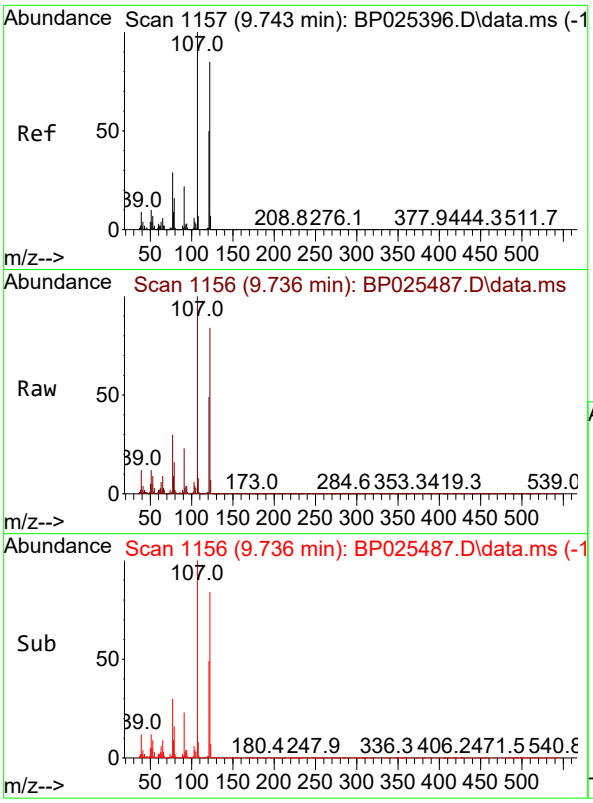


#26
2-Nitrophenol
Concen: 40.785 ng
RT: 9.678 min Scan# 1146
Delta R.T. -0.000 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:139 Resp: 251156

Ion	Ratio	Lower	Upper
139	100		
109	34.3	26.9	40.3
65	48.3	38.3	57.5



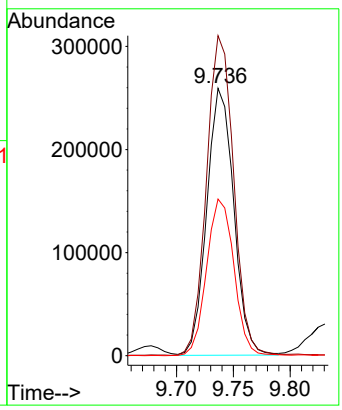


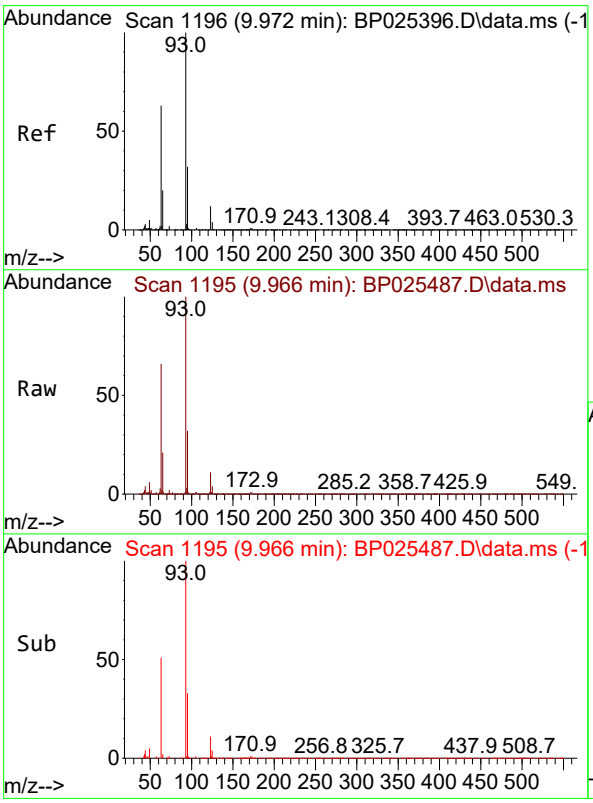
#27
2,4-Dimethylphenol
Concen: 40.448 ng
RT: 9.736 min Scan# 11
Delta R.T. -0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:122 Resp: 428351

Ion	Ratio	Lower	Upper
122	100		
107	119.7	93.7	140.5
121	58.6	46.6	69.8

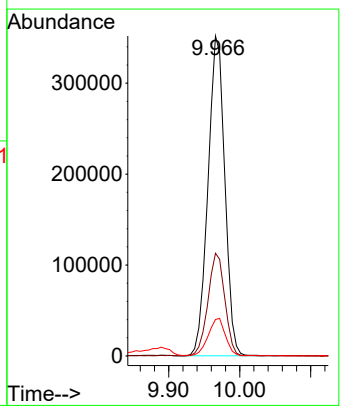


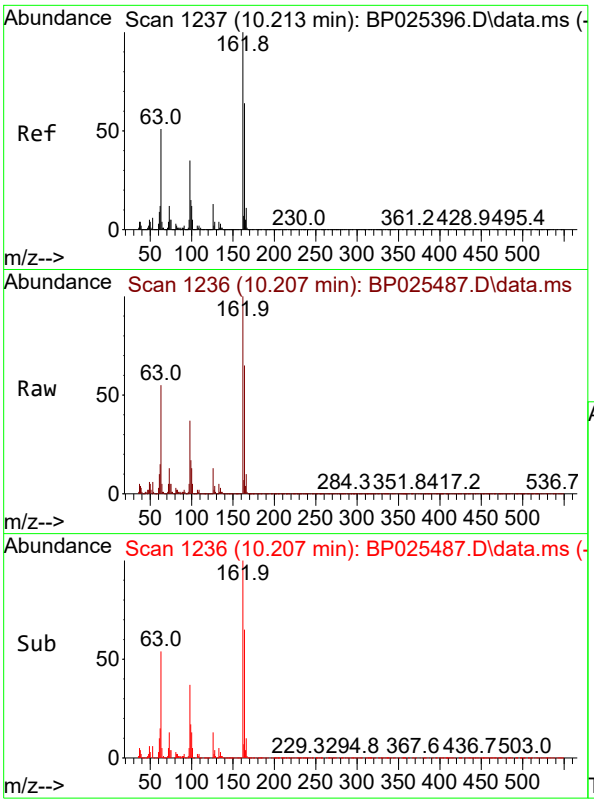


#28
bis(2-Chloroethoxy)methane
Concen: 40.338 ng
RT: 9.966 min Scan# 1195
Delta R.T. -0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion: 93 Resp: 579381

Ion	Ratio	Lower	Upper
93	100		
95	32.1	25.4	38.0
123	11.4	9.4	14.0



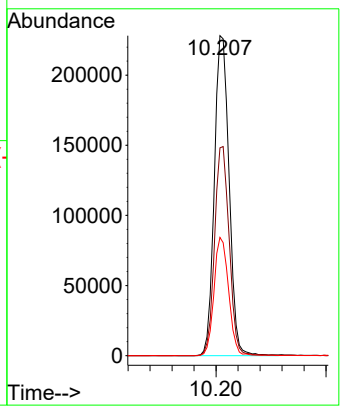


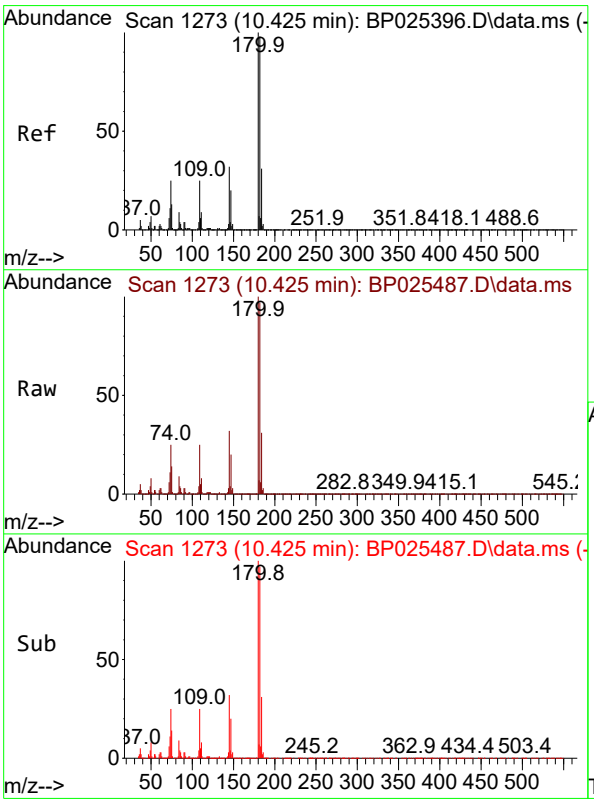
#29
2,4-Dichlorophenol
Concen: 40.398 ng
RT: 10.207 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:162 Resp: 424988

Ion	Ratio	Lower	Upper
162	100		
164	65.0	44.4	84.4
98	36.9	14.9	54.9

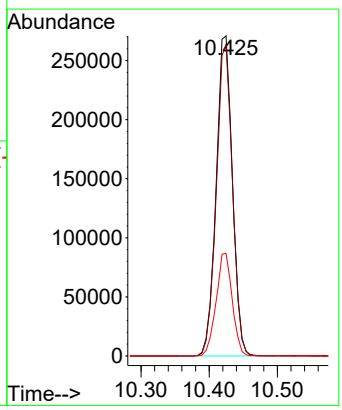


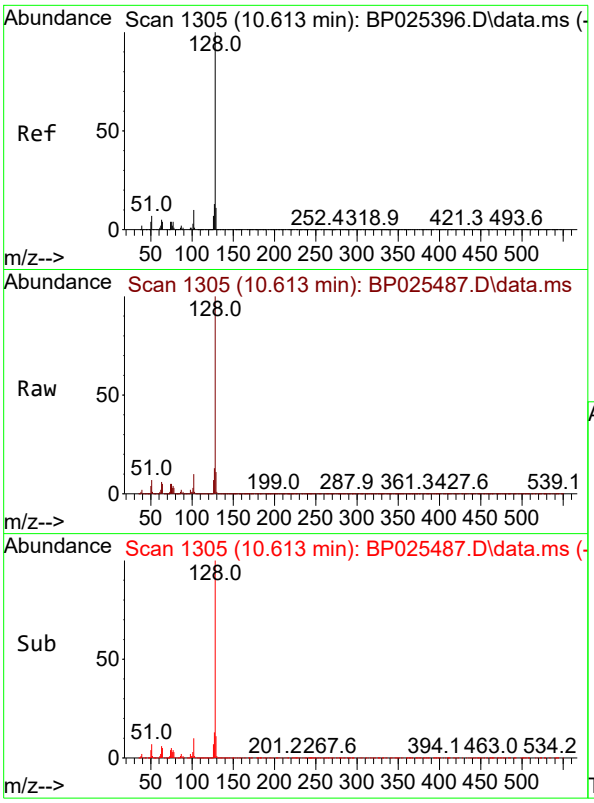


#30
1,2,4-Trichlorobenzene
Concen: 38.983 ng
RT: 10.425 min Scan# 1273
Delta R.T. -0.000 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:180 Resp: 449563

Ion	Ratio	Lower	Upper
180	100		
182	97.3	78.0	117.0
145	32.1	25.9	38.9



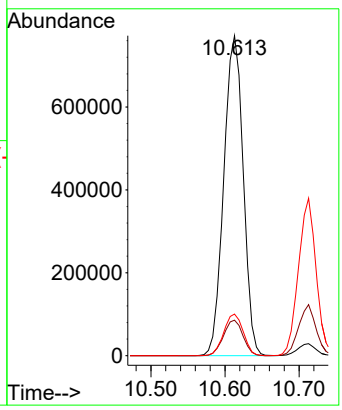


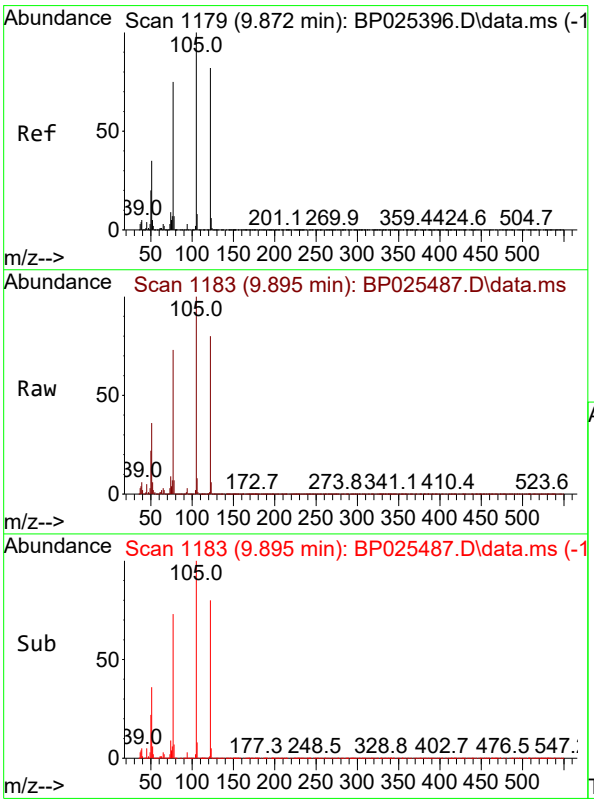
#31
Naphthalene
Concen: 39.844 ng
RT: 10.613 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:128 Resp: 1406520

Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.6	13.0
127	13.0	10.7	16.1

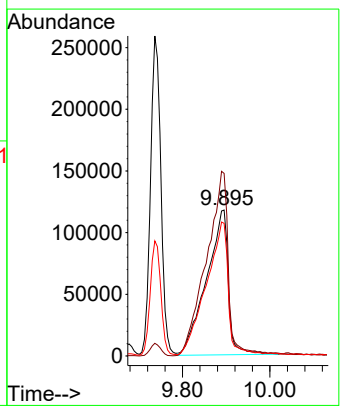


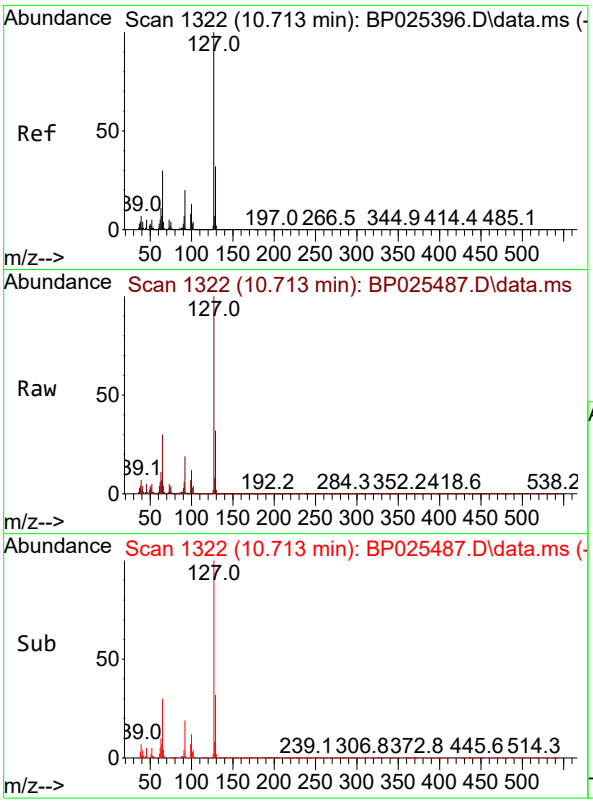


#32
Benzoic acid
Concen: 52.196 ng
RT: 9.895 min Scan# 1183
Delta R.T. 0.023 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:122 Resp: 408095

Ion	Ratio	Lower	Upper
122	100		
105	125.2	100.6	140.6
77	91.0	71.5	111.5



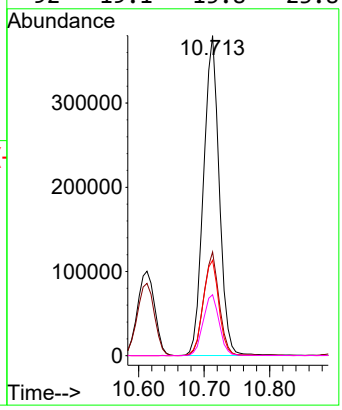


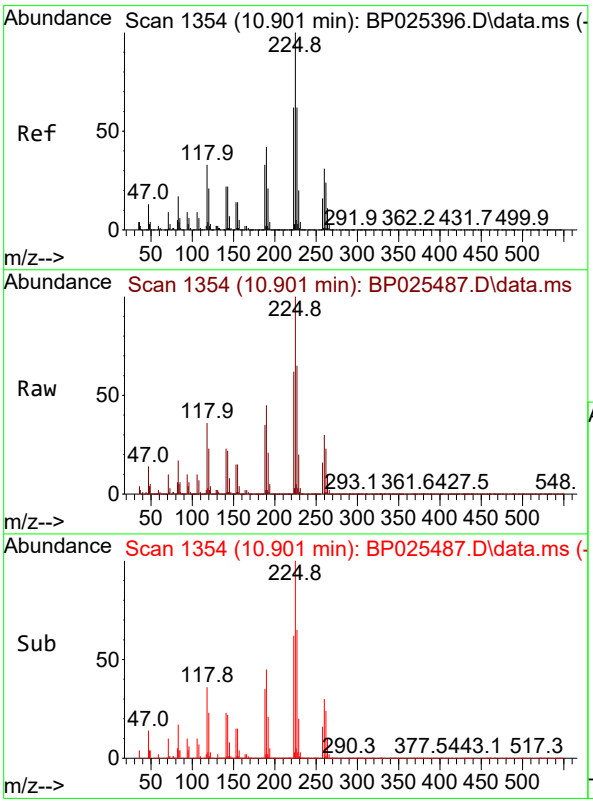
#33
4-Chloroaniline
Concen: 40.661 ng
RT: 10.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:127 Resp: 634028

Ion	Ratio	Lower	Upper
127	100		
129	32.4	25.4	38.2
65	29.8	23.8	35.6
92	19.1	15.8	23.8

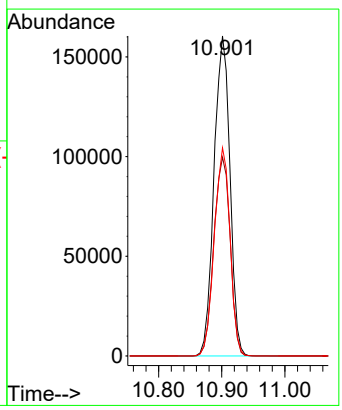


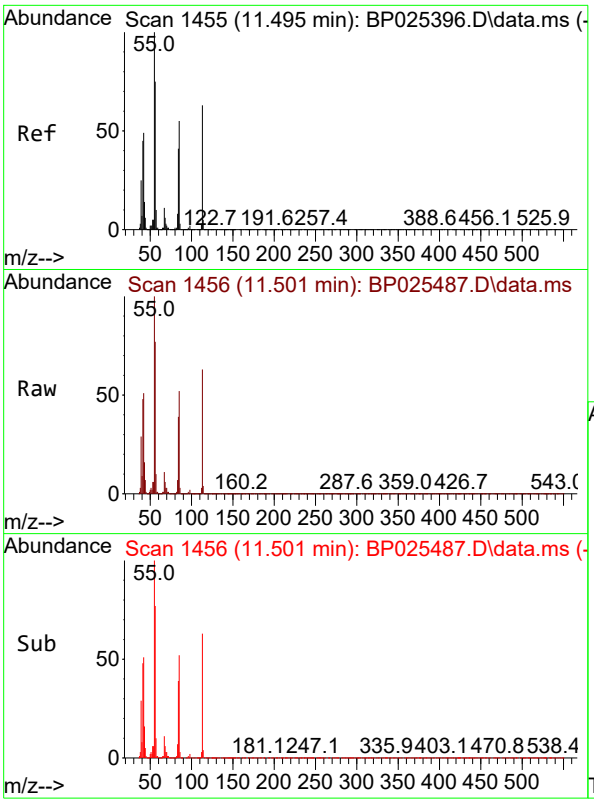


#34
Hexachlorobutadiene
Concen: 39.100 ng
RT: 10.901 min Scan# 1354
Delta R.T. -0.000 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:225 Resp: 280821

Ion	Ratio	Lower	Upper
225	100		
223	62.1	50.0	75.0
227	65.1	49.7	74.5



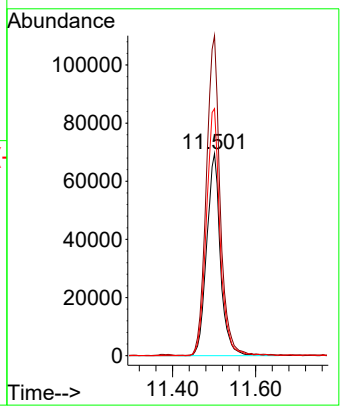


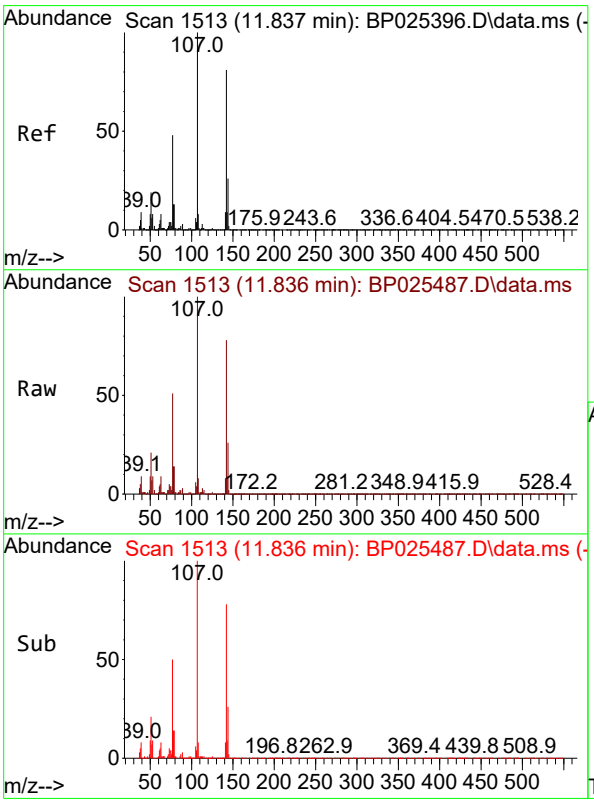
#35
Caprolactam
Concen: 41.192 ng
RT: 11.501 min Scan# 14
Delta R.T. 0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:113 Resp: 158902

Ion	Ratio	Lower	Upper
113	100		
55	158.4	140.0	180.0
56	122.3	100.0	140.0

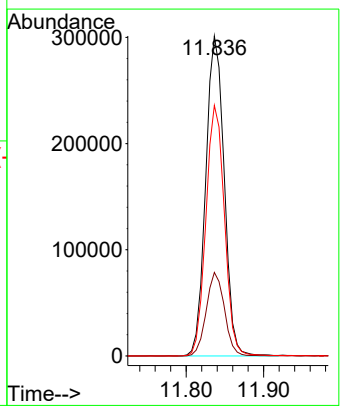


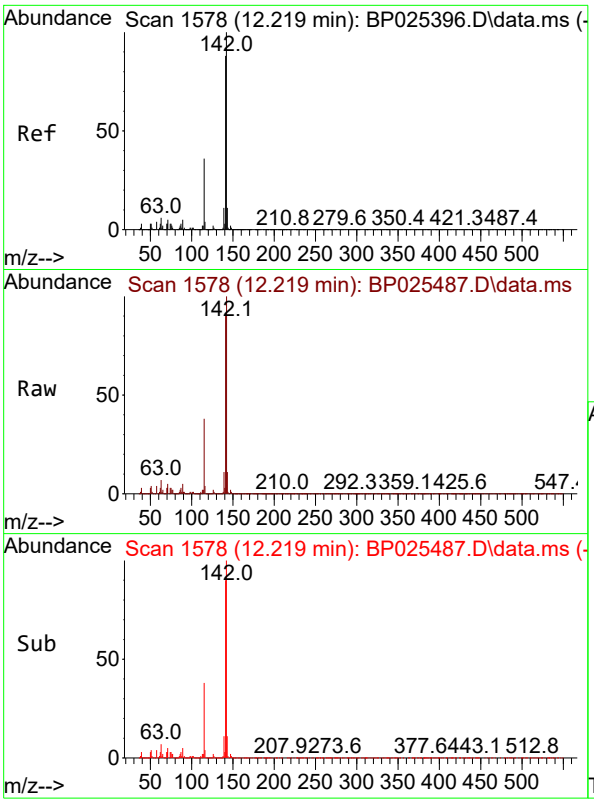


#36
4-Chloro-3-methylphenol
Concen: 41.295 ng
RT: 11.836 min Scan# 1513
Delta R.T. -0.000 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:107 Resp: 498499

Ion	Ratio	Lower	Upper
107	100		
144	26.1	21.0	31.4
142	78.3	64.6	97.0





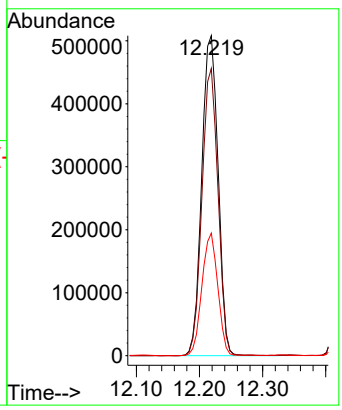
#37
2-Methylnaphthalene
Concen: 39.806 ng
RT: 12.219 min Scan# 1

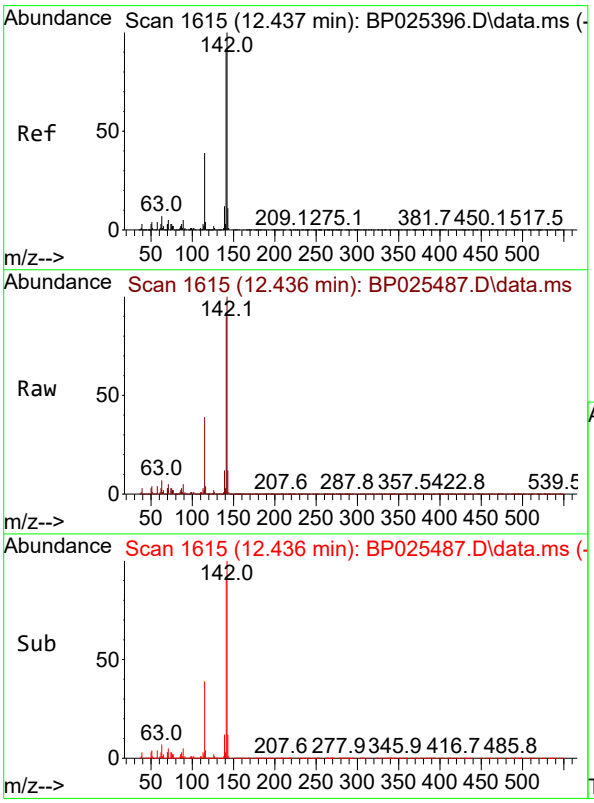
Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Delta R.T. -0.000 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:142 Resp: 914456

Ion	Ratio	Lower	Upper
142	100		
141	89.8	70.3	105.5
115	38.3	28.9	43.3

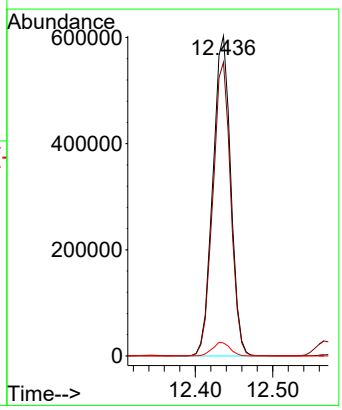


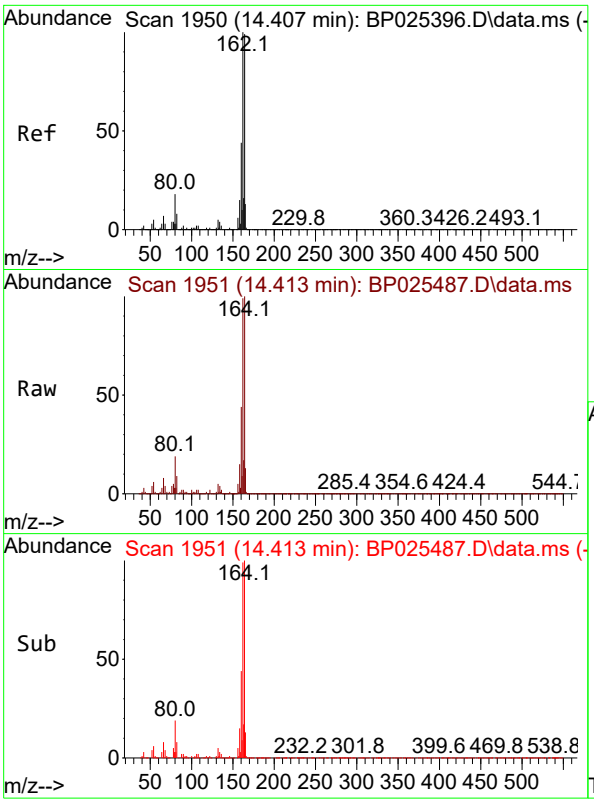


#38
1-Methylnaphthalene
Concen: 39.466 ng
RT: 12.436 min Scan# 1615
Delta R.T. -0.000 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:142 Resp: 964168

Ion	Ratio	Lower	Upper
142	100		
141	91.8	73.1	109.7
116	4.0	3.2	4.8



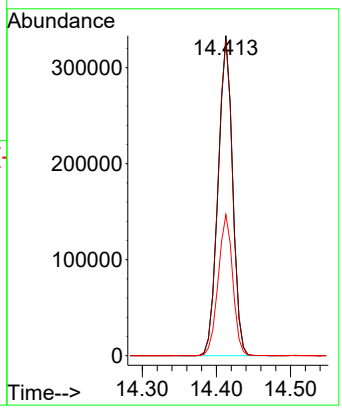


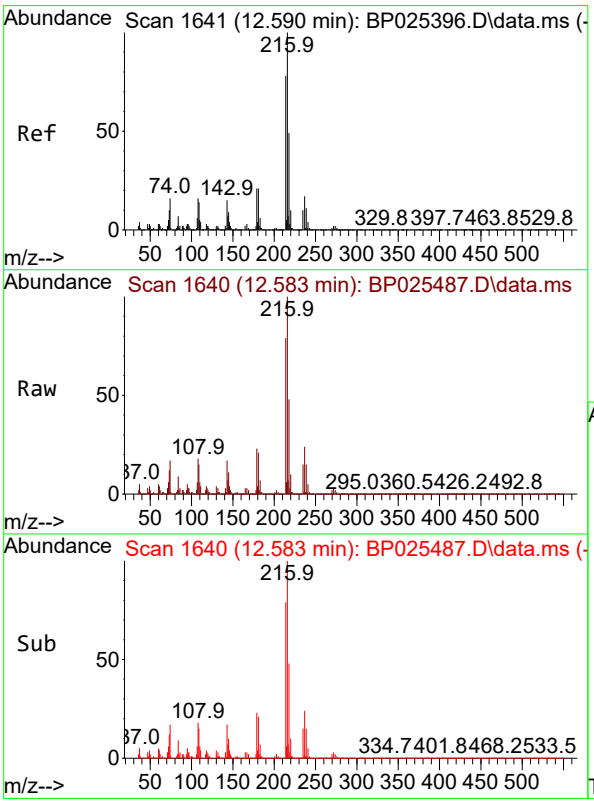
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.413 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:164 Resp: 450864

Ion	Ratio	Lower	Upper
164	100		
162	98.7	81.0	121.6
160	44.1	35.4	53.2

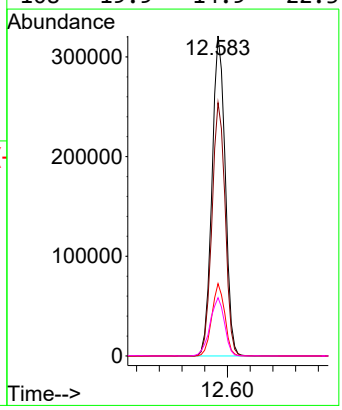


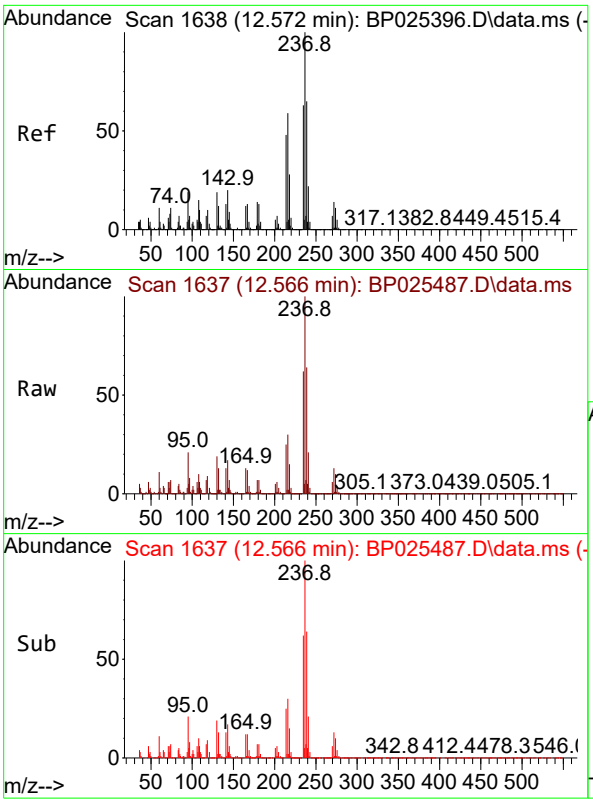


#40
1,2,4,5-Tetrachlorobenzene
Concen: 39.618 ng
RT: 12.583 min Scan# 1640
Delta R.T. -0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:216 Resp: 515884

Ion	Ratio	Lower	Upper
216	100		
214	79.1	63.0	94.4
179	22.1	17.1	25.7
108	19.9	14.9	22.3



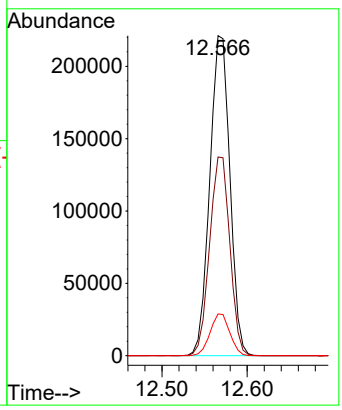


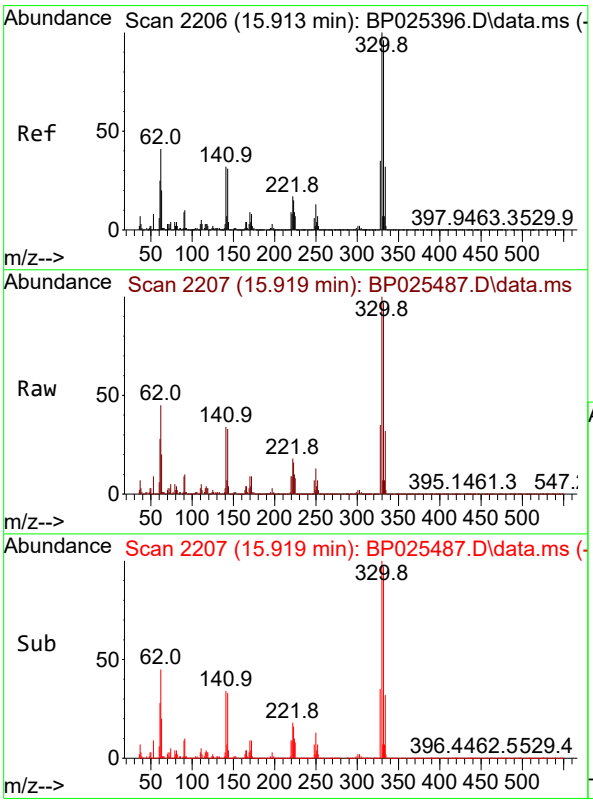
#41
Hexachlorocyclopentadiene
Concen: 46.040 ng
RT: 12.566 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:237 Resp: 362128

Ion	Ratio	Lower	Upper
237	100		
235	62.1	42.7	82.7
272	13.1	0.0	34.0

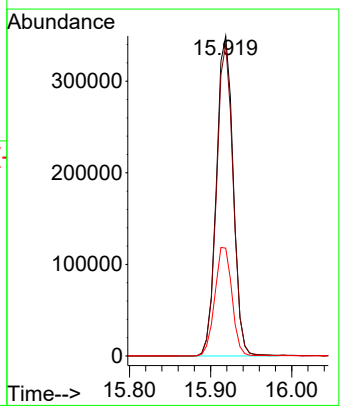


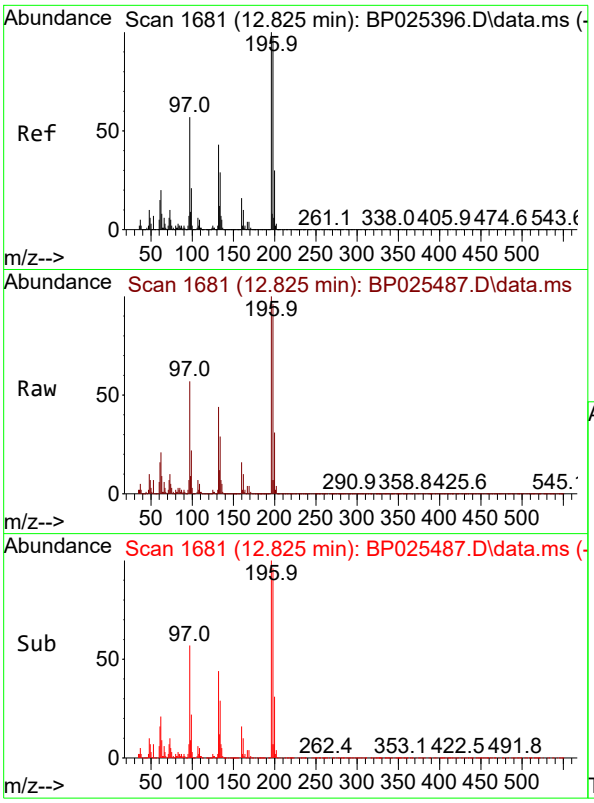


#42
2,4,6-Tribromophenol
Concen: 82.710 ng
RT: 15.919 min Scan# 2207
Delta R.T. 0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:330 Resp: 501941

Ion	Ratio	Lower	Upper
330	100		
332	96.2	77.3	115.9
141	34.8	26.6	39.8



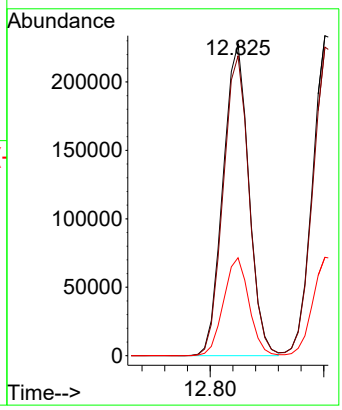


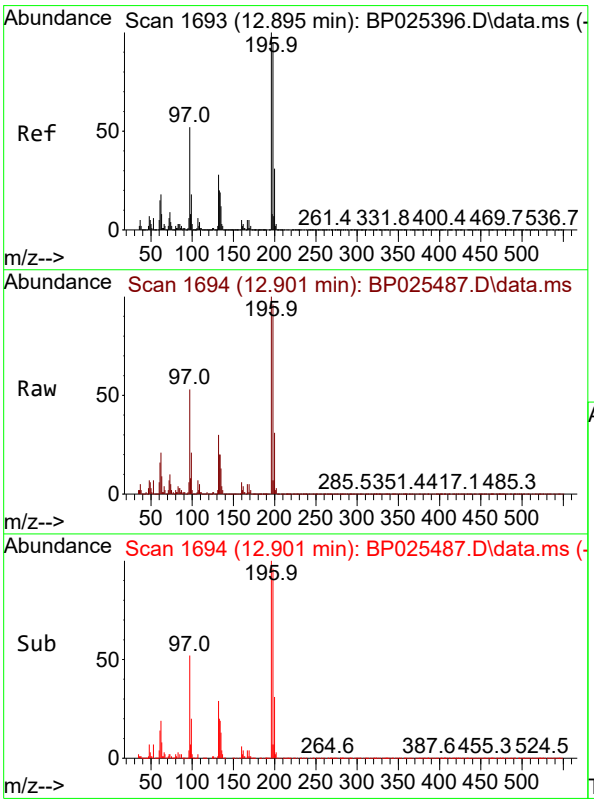
#43
2,4,6-Trichlorophenol
Concen: 40.986 ng
RT: 12.825 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:196 Resp: 360300

Ion	Ratio	Lower	Upper
196	100		
198	96.1	77.2	115.8
200	31.4	23.9	35.9

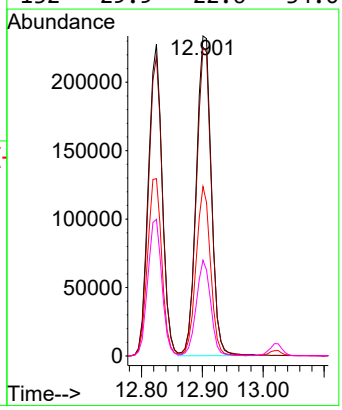


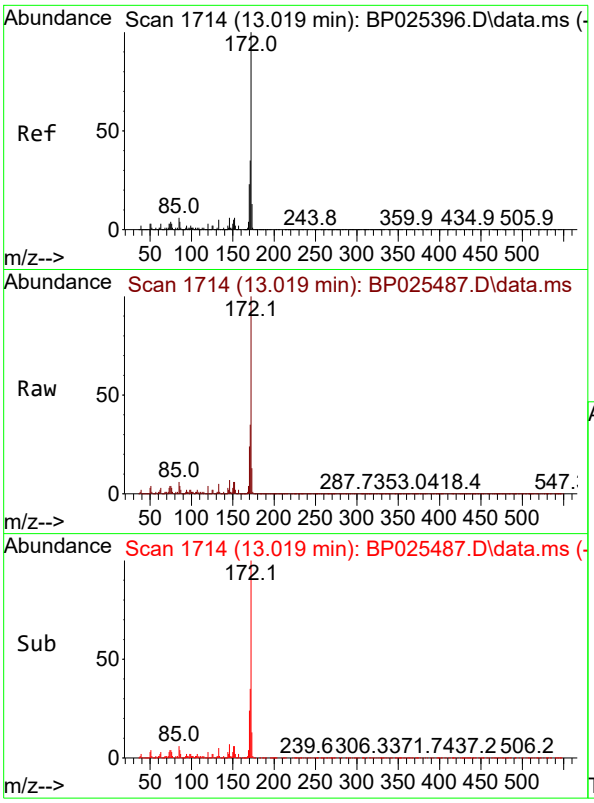


#44
2,4,5-Trichlorophenol
Concen: 41.492 ng
RT: 12.901 min Scan# 1694
Delta R.T. 0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:196 Resp: 399763

Ion	Ratio	Lower	Upper
196	100		
198	96.4	76.2	114.2
97	53.0	41.2	61.8
132	29.9	22.6	34.0



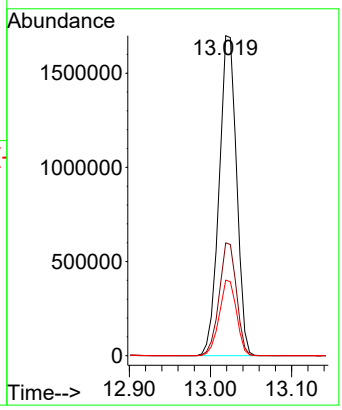


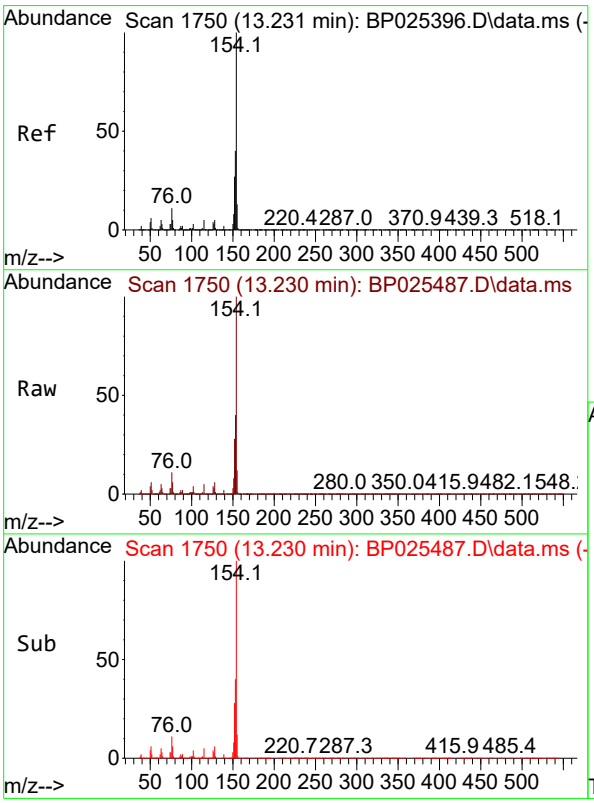
#45
2-Fluorobiphenyl
Concen: 76.967 ng
RT: 13.019 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:172 Resp: 2539096

Ion	Ratio	Lower	Upper
172	100		
171	35.2	28.1	42.1
170	23.6	18.6	28.0

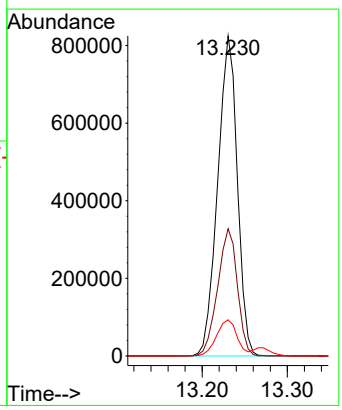


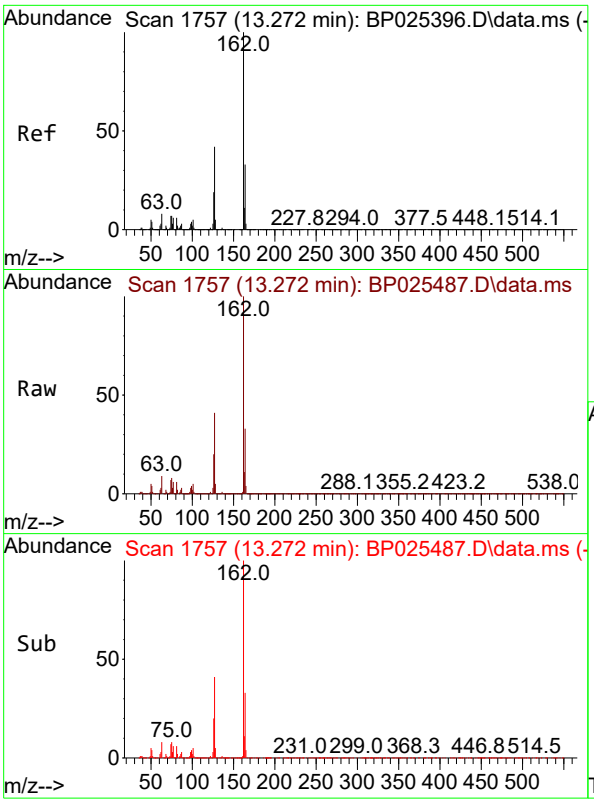


#46
1,1'-Biphenyl
Concen: 40.264 ng
RT: 13.230 min Scan# 1750
Delta R.T. -0.000 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:154 Resp: 1318412

Ion	Ratio	Lower	Upper
154	100		
153	39.8	19.5	59.5
76	11.3	0.0	31.1



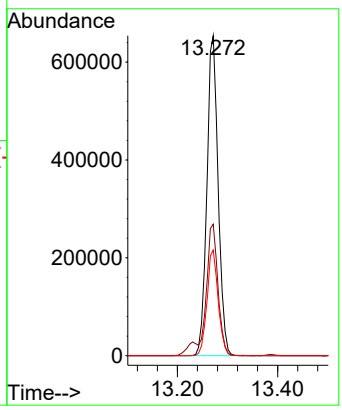


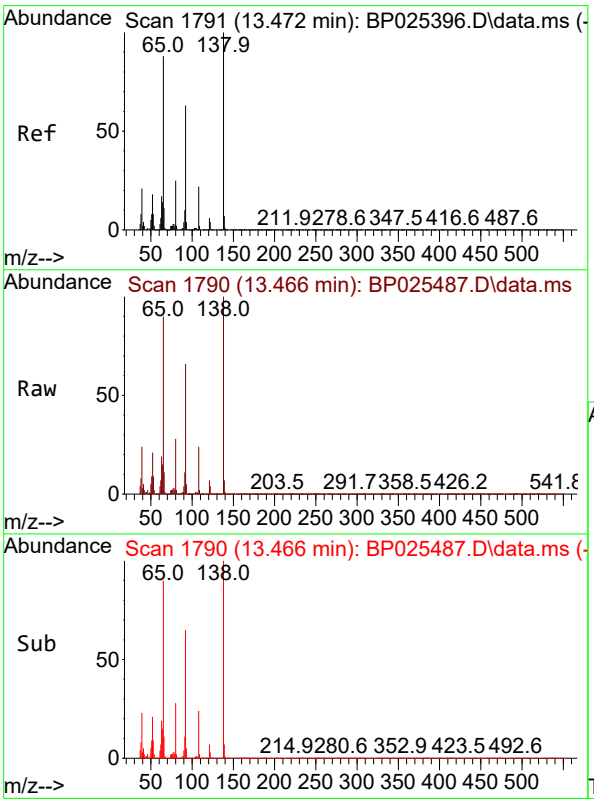
#47
2-Chloronaphthalene
Concen: 39.989 ng
RT: 13.272 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:162 Resp: 1019352

Ion	Ratio	Lower	Upper
162	100		
127	41.1	33.4	50.2
164	33.0	26.2	39.2

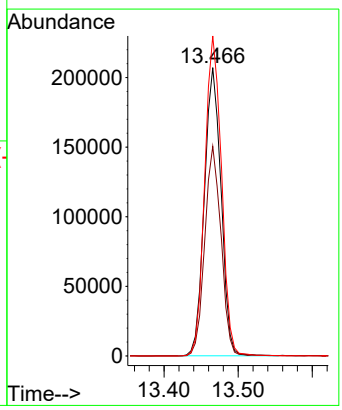


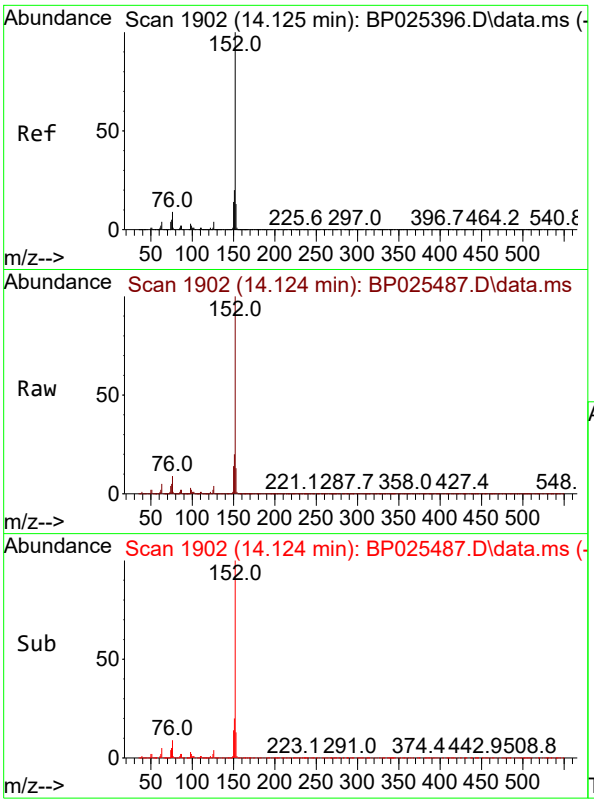


#48
2-Nitroaniline
Concen: 43.643 ng
RT: 13.466 min Scan# 1790
Delta R.T. -0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion: 65 Resp: 324159

Ion	Ratio	Lower	Upper
65	100		
92	72.7	57.6	86.4
138	111.0	91.0	136.6



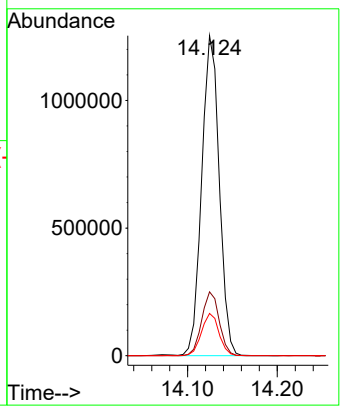


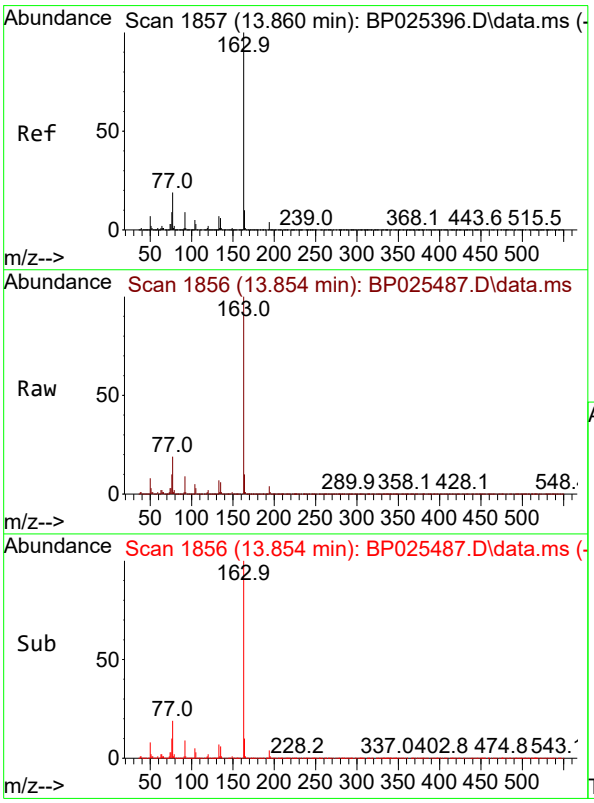
#49
Acenaphthylene
Concen: 40.393 ng
RT: 14.124 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:152 Resp: 1703788

Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.0	24.0
153	13.2	10.6	15.8

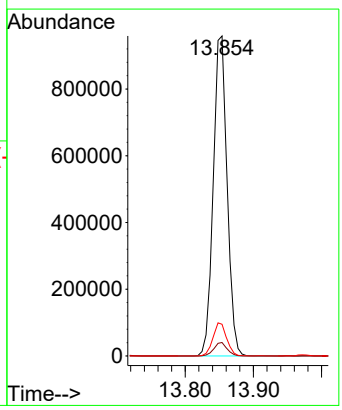


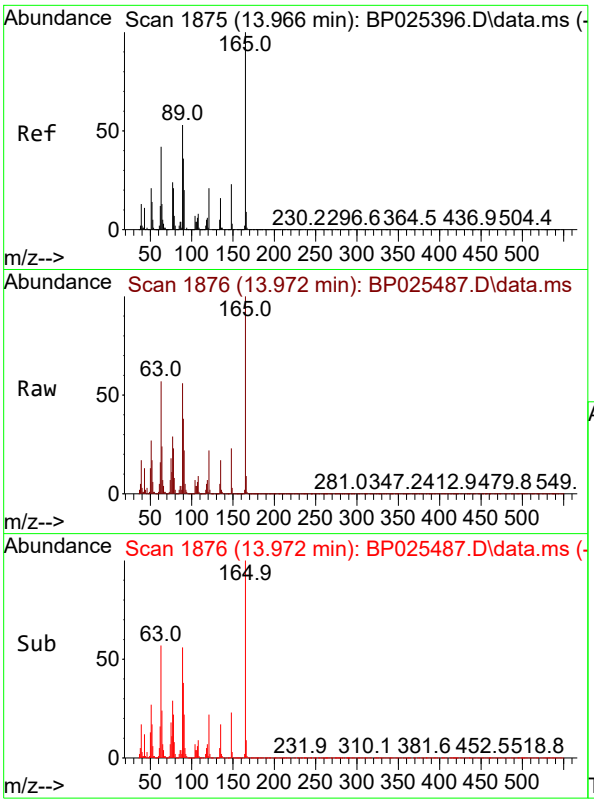


#50
Dimethylphthalate
Concen: 41.055 ng
RT: 13.854 min Scan# 1856
Delta R.T. -0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:163 Resp: 1355491

Ion	Ratio	Lower	Upper
163	100		
194	4.2	3.4	5.0
164	9.9	7.9	11.9



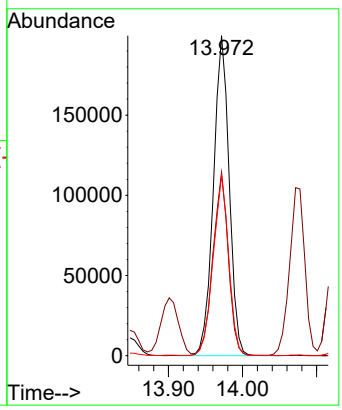


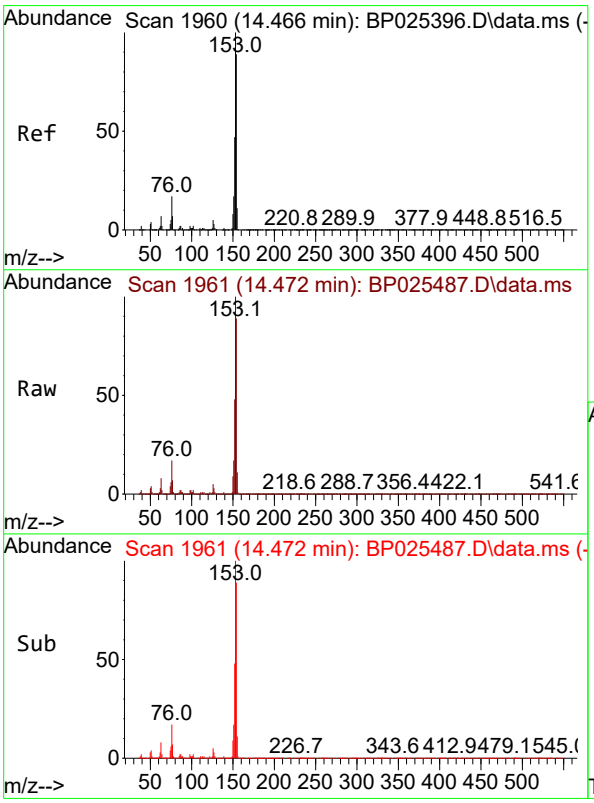
#51
2,6-Dinitrotoluene
Concen: 42.345 ng
RT: 13.972 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:165 Resp: 294671

Ion	Ratio	Lower	Upper
165	100		
63	57.3	40.9	61.3
89	56.4	42.1	63.1

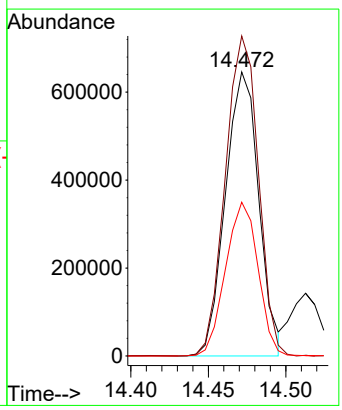


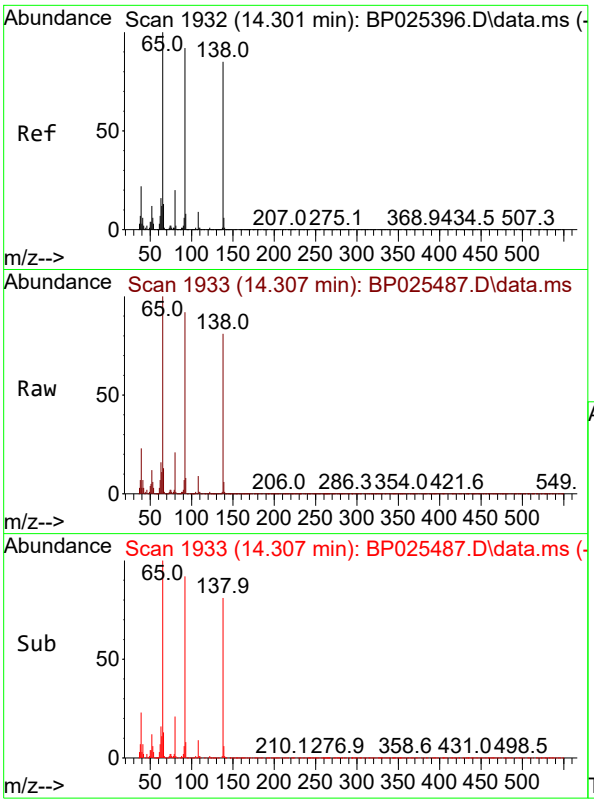


#52
Acenaphthene
Concen: 39.004 ng
RT: 14.472 min Scan# 1961
Delta R.T. 0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:154 Resp: 965696

Ion	Ratio	Lower	Upper
154	100		
153	112.7	90.2	135.2
152	54.1	42.1	63.1



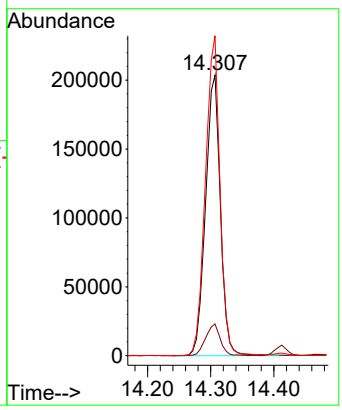


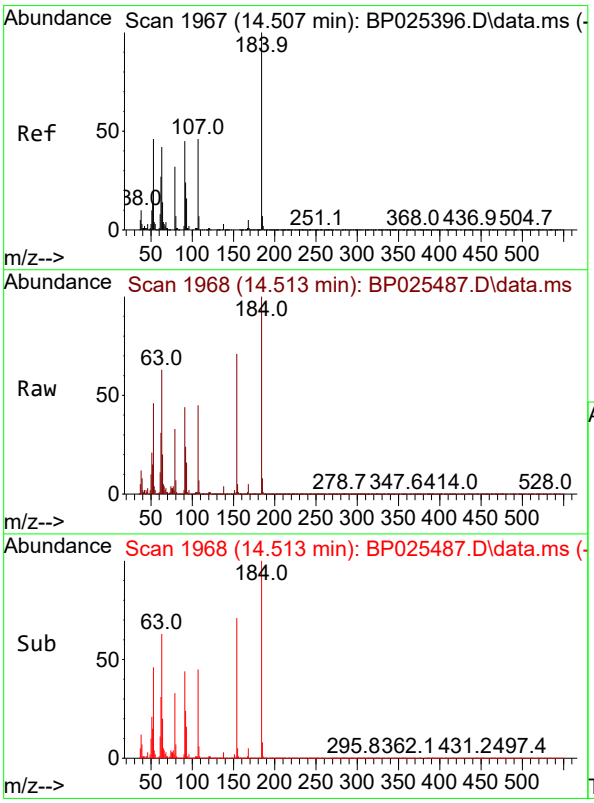
#53
3-Nitroaniline
Concen: 42.258 ng
RT: 14.307 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:138 Resp: 330858

Ion	Ratio	Lower	Upper
138	100		
108	11.3	8.3	12.5
92	114.1	86.2	129.2

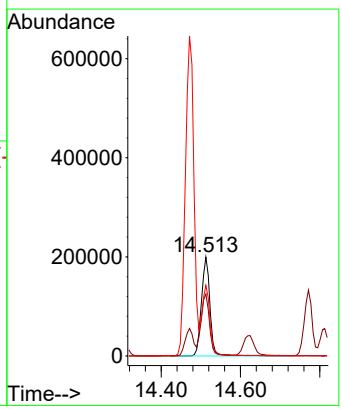


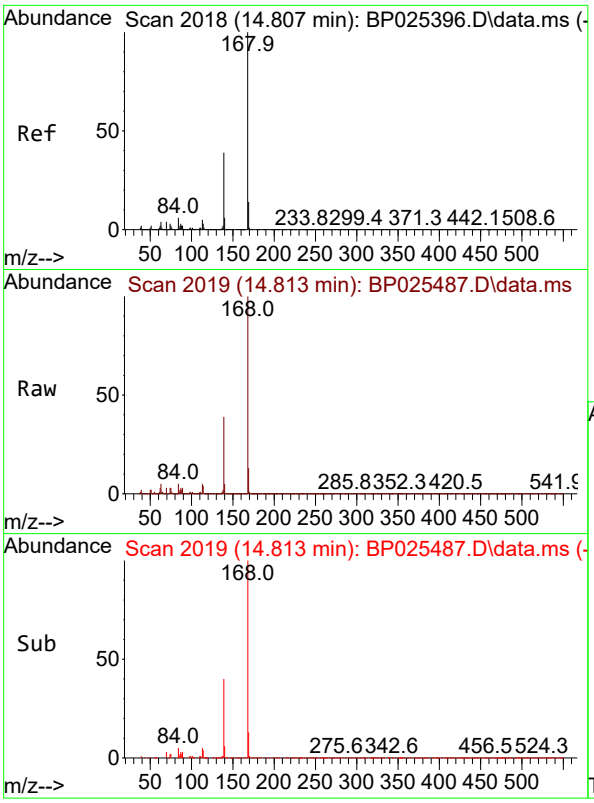


#54
2,4-Dinitrophenol
Concen: 80.460 ng
RT: 14.513 min Scan# 1968
Delta R.T. 0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:184 Resp: 299007

Ion	Ratio	Lower	Upper
184	100		
63	62.7	49.4	74.2
154	71.4	54.6	82.0



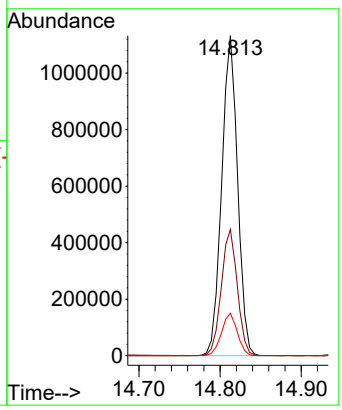


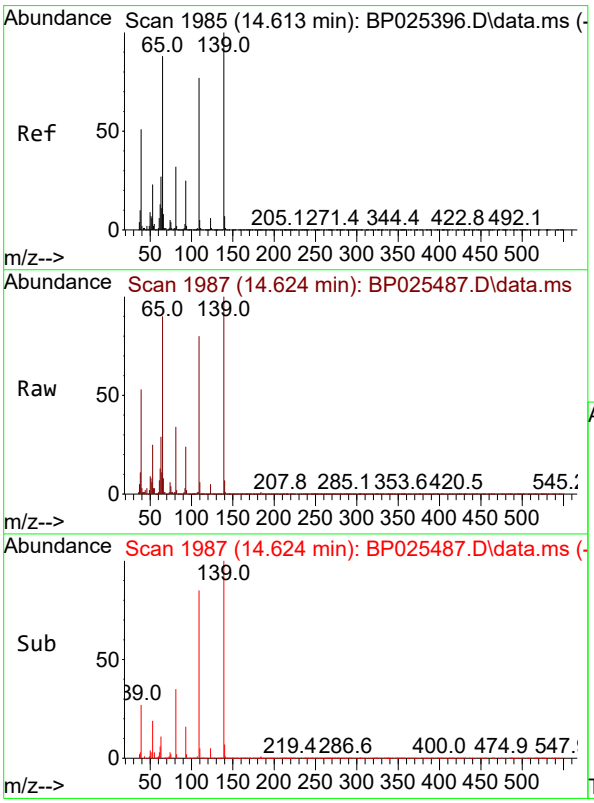
#55
Dibenzofuran
Concen: 39.380 ng
RT: 14.813 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:168 Resp: 1541513

Ion	Ratio	Lower	Upper
168	100		
139	39.4	31.5	47.3
169	13.2	10.9	16.3

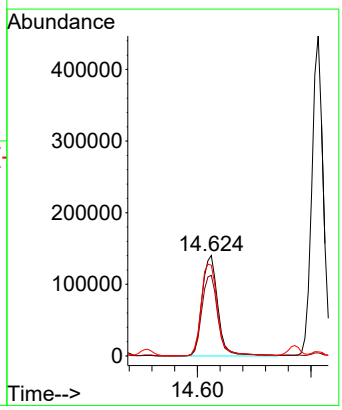


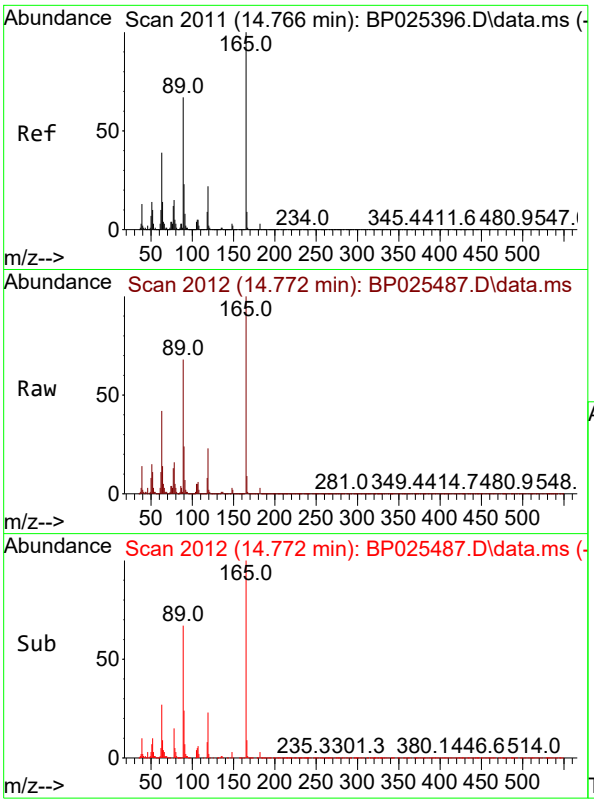


#56
4-Nitrophenol
Concen: 42.159 ng
RT: 14.624 min Scan# 1987
Delta R.T. 0.012 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:139 Resp: 271237

Ion	Ratio	Lower	Upper
139	100		
109	80.3	56.6	96.6
65	90.3	68.2	108.2



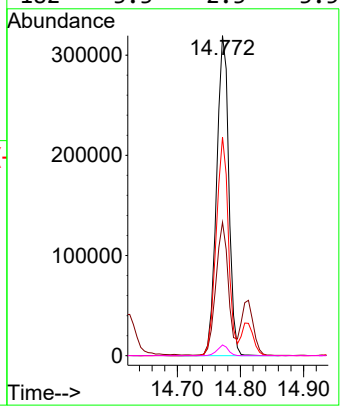


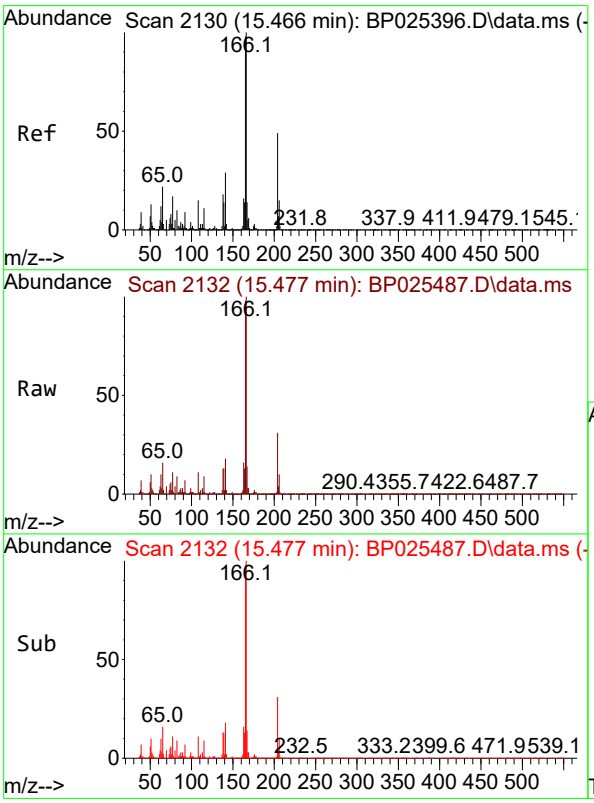
#57
2,4-Dinitrotoluene
Concen: 43.171 ng
RT: 14.772 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:165 Resp: 428628

Ion	Ratio	Lower	Upper
165	100		
63	41.7	31.4	47.2
89	68.3	53.3	79.9
182	3.3	2.3	3.5

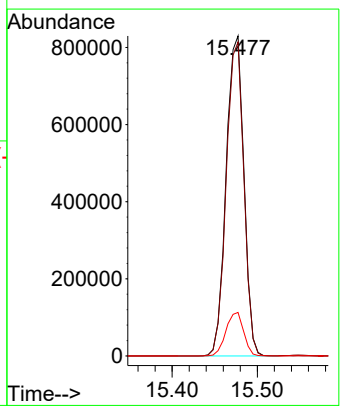


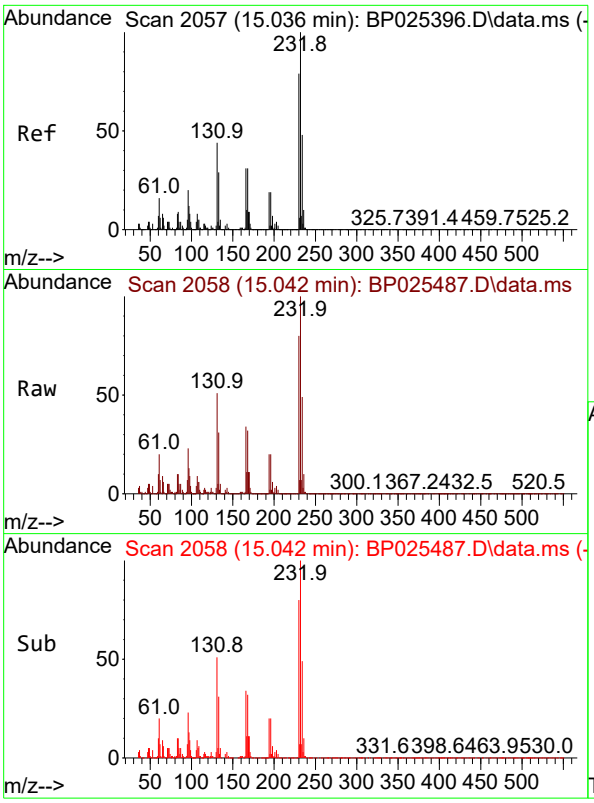


#58
Fluorene
Concen: 38.896 ng
RT: 15.477 min Scan# 2132
Delta R.T. 0.011 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:166 Resp: 1201420

Ion	Ratio	Lower	Upper
166	100		
165	98.1	78.8	118.2
167	13.6	11.0	16.4



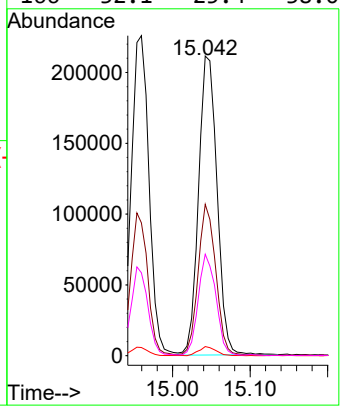


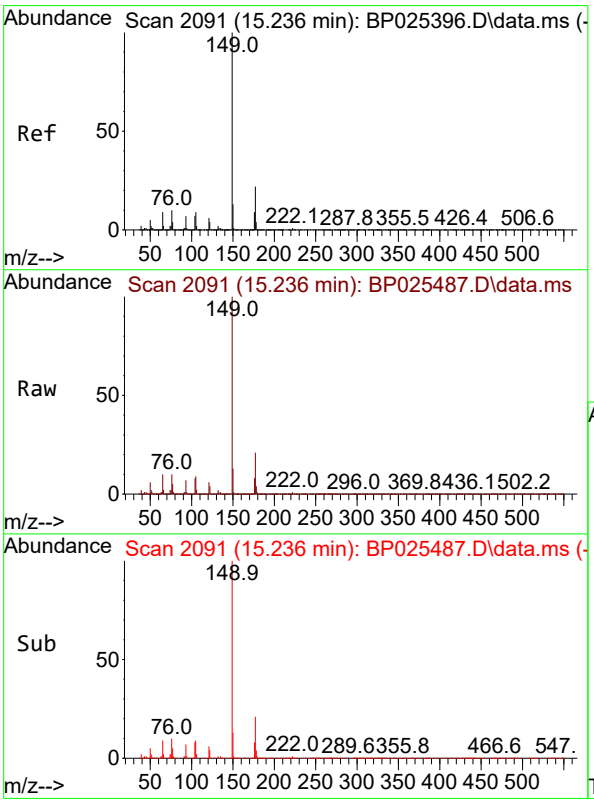
#59
2,3,4,6-Tetrachlorophenol
Concen: 41.154 ng
RT: 15.042 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:232 Resp: 350101

Ion	Ratio	Lower	Upper
232	100		
131	48.6	37.0	55.6
130	2.8	1.9	2.9
166	32.1	25.4	38.0

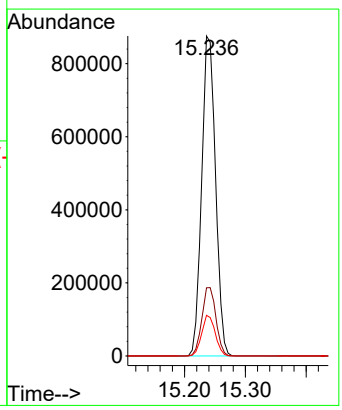


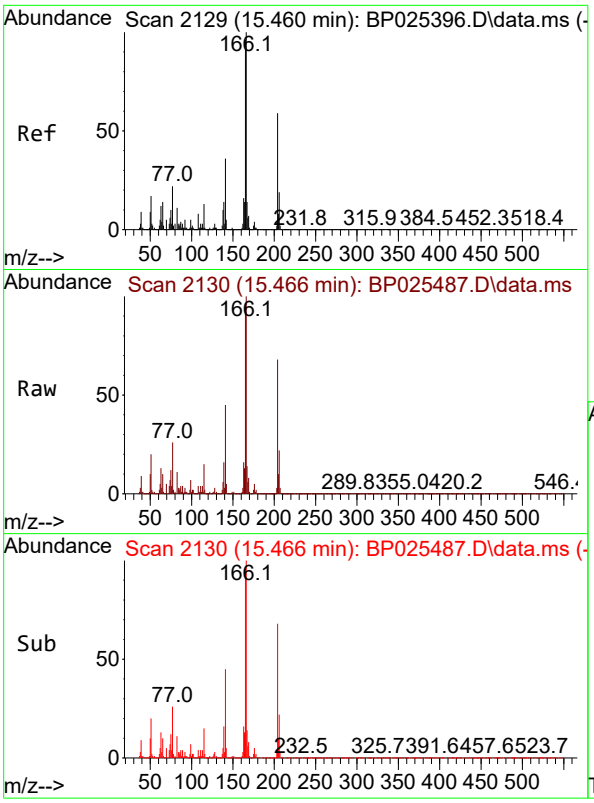


#60
Diethylphthalate
Concen: 41.316 ng
RT: 15.236 min Scan# 2091
Delta R.T. -0.000 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:149 Resp: 1386072

Ion	Ratio	Lower	Upper
149	100		
177	21.3	17.3	25.9
150	12.7	10.3	15.5



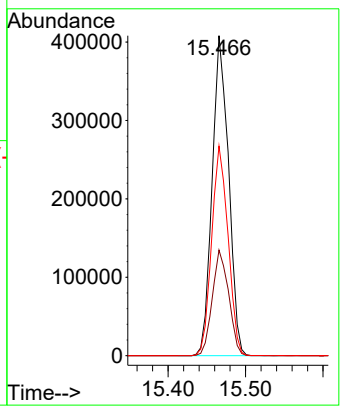


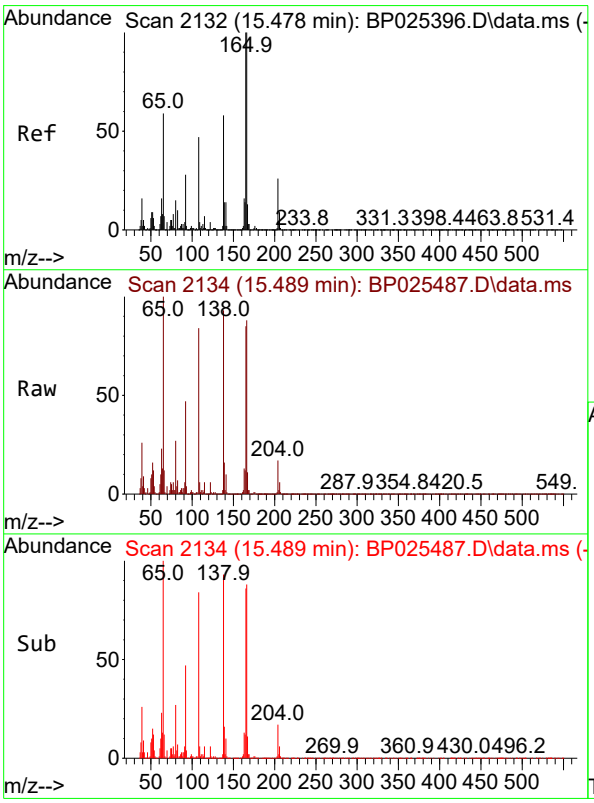
#61
4-Chlorophenyl-phenylether
Concen: 38.989 ng
RT: 15.466 min Scan# 21
Delta R.T. 0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:204 Resp: 598934

Ion	Ratio	Lower	Upper
204	100		
206	33.0	25.8	38.8
141	65.5	49.4	74.2

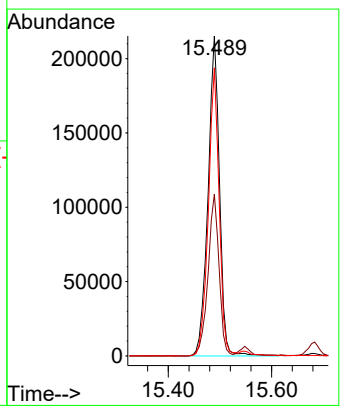


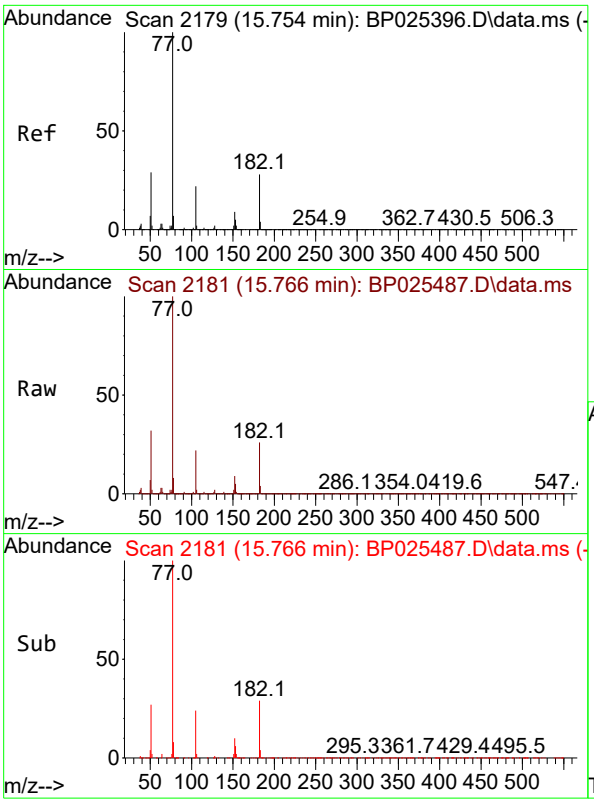


#62
4-Nitroaniline
Concen: 41.329 ng
RT: 15.489 min Scan# 2134
Delta R.T. 0.011 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:138 Resp: 331726

Ion	Ratio	Lower	Upper
138	100		
92	50.6	29.1	69.1
108	90.0	61.5	101.5



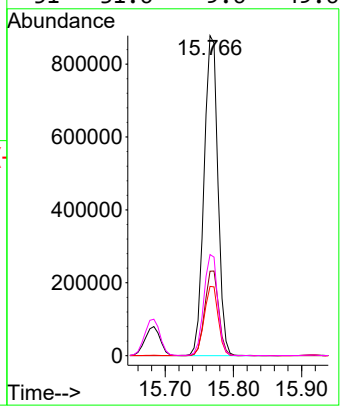


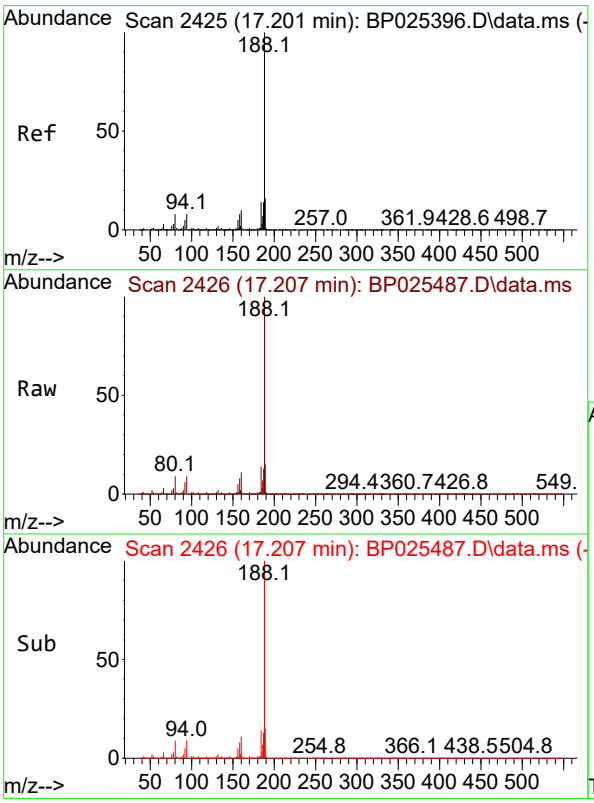
#63
Azobenzene
Concen: 43.196 ng
RT: 15.766 min Scan# 21
Delta R.T. 0.012 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion: 77 Resp: 1240846

Ion	Ratio	Lower	Upper
77	100		
182	26.4	7.5	47.5
105	21.6	2.1	42.1
51	31.6	9.6	49.6

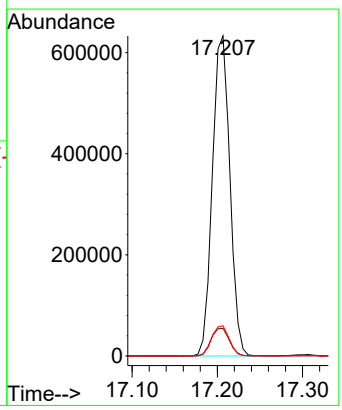


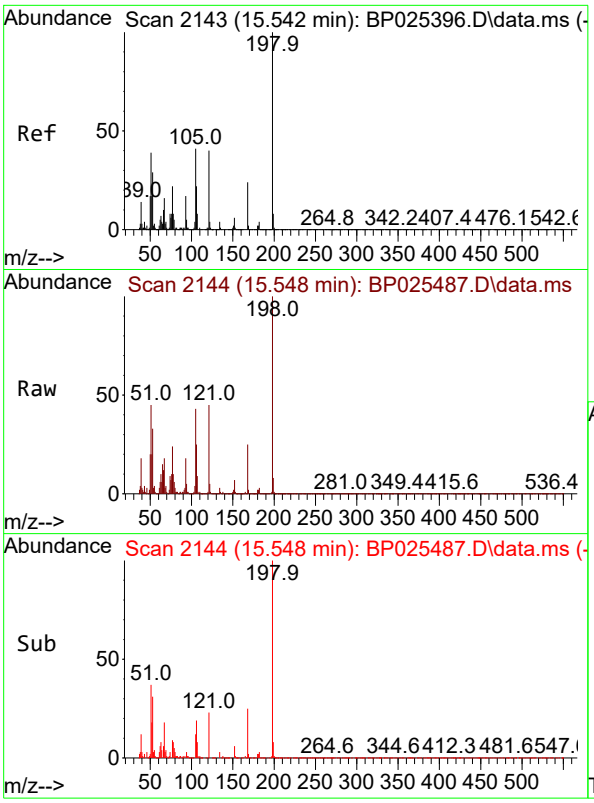


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.207 min Scan# 2426
Delta R.T. 0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:188 Resp: 905283

Ion	Ratio	Lower	Upper
188	100		
94	8.7	6.6	10.0
80	9.5	6.7	10.1



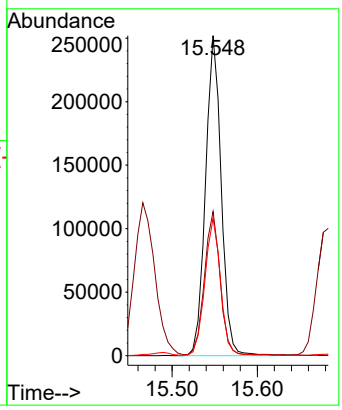


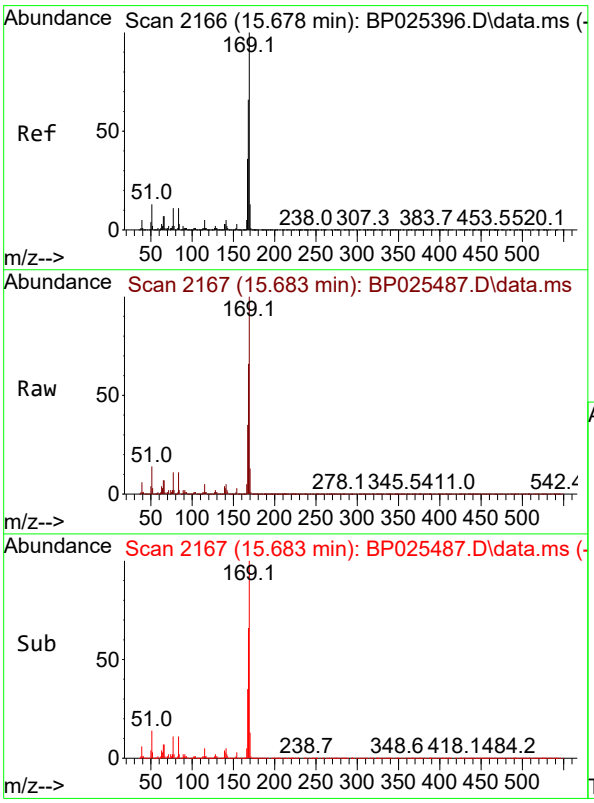
#65
4,6-Dinitro-2-methylphenol
Concen: 57.103 ng
RT: 15.548 min Scan# 21
Delta R.T. 0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:198 Resp: 322240

Ion	Ratio	Lower	Upper
198	100		
51	45.1	19.6	59.6
105	42.9	20.9	60.9

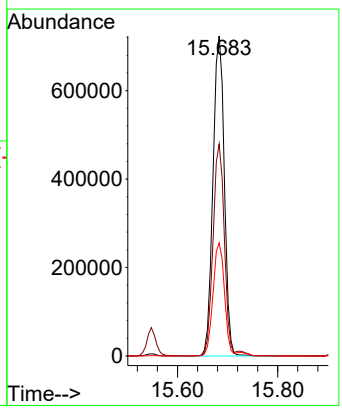


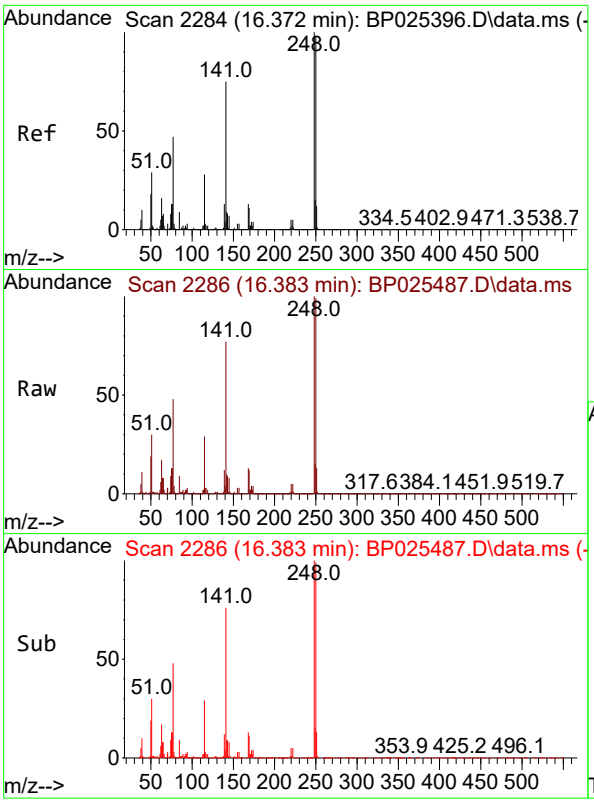


#66
n-Nitrosodiphenylamine
Concen: 41.022 ng
RT: 15.683 min Scan# 2167
Delta R.T. 0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:169 Resp: 1132449

Ion	Ratio	Lower	Upper
169	100		
168	66.3	53.2	79.8
167	35.3	28.7	43.1



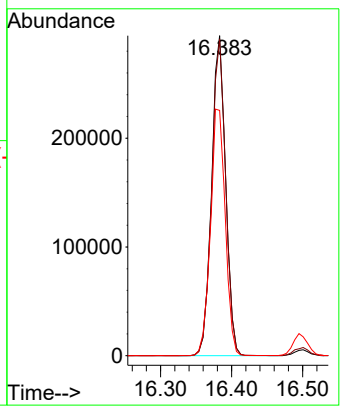


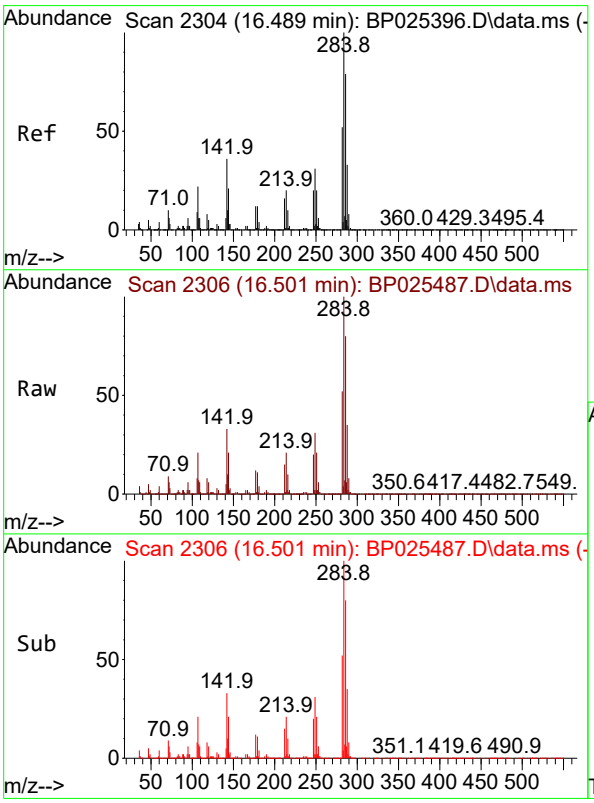
#67
4-Bromophenyl-phenylether
Concen: 40.448 ng
RT: 16.383 min Scan# 2
Delta R.T. 0.012 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:248 Resp: 402714

Ion	Ratio	Lower	Upper
248	100		
250	99.0	78.2	117.2
141	76.6	59.6	89.4

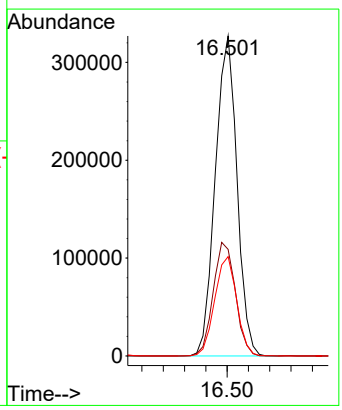


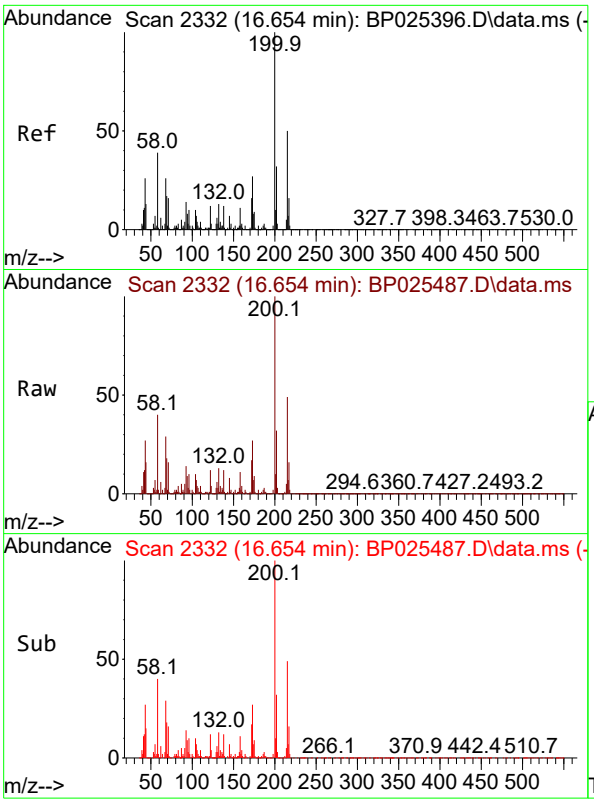


#68
Hexachlorobenzene
Concen: 39.997 ng
RT: 16.501 min Scan# 2306
Delta R.T. 0.012 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:284 Resp: 461625

Ion	Ratio	Lower	Upper
284	100		
142	33.3	29.1	43.7
249	31.1	25.0	37.4



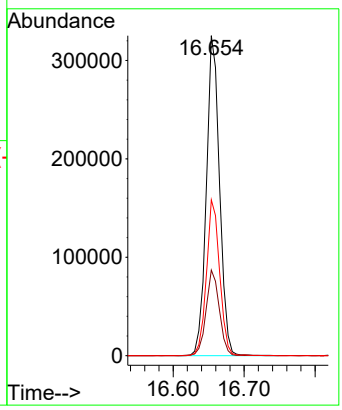


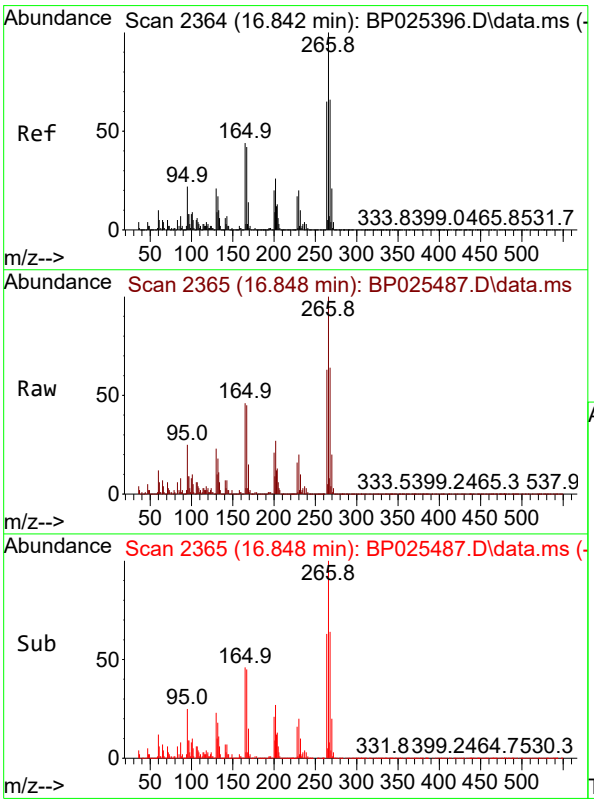
#69
Atrazine
Concen: 40.669 ng
RT: 16.654 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:200 Resp: 420453

Ion	Ratio	Lower	Upper
200	100		
173	26.7	6.7	46.7
215	48.7	29.7	69.7

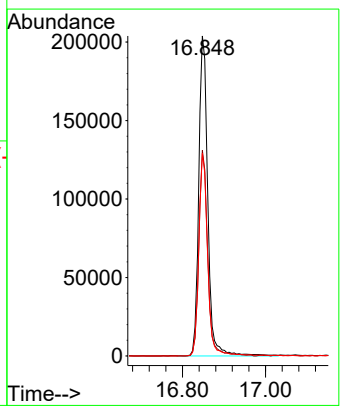


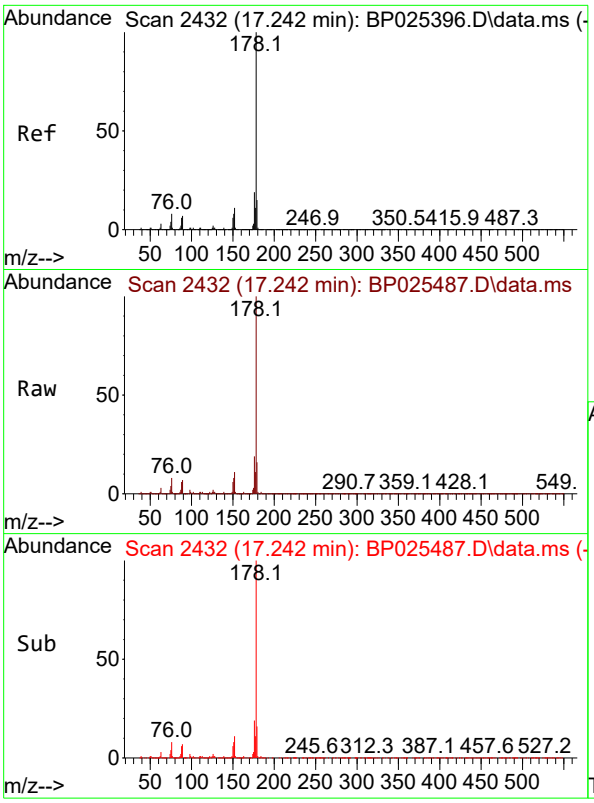


#70
Pentachlorophenol
Concen: 42.259 ng
RT: 16.848 min Scan# 2365
Delta R.T. 0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:266 Resp: 307884

Ion	Ratio	Lower	Upper
266	100		
268	64.2	52.6	79.0
264	63.3	52.0	78.0



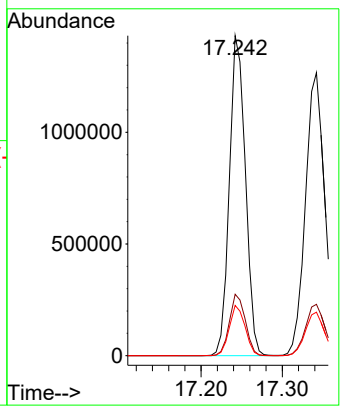


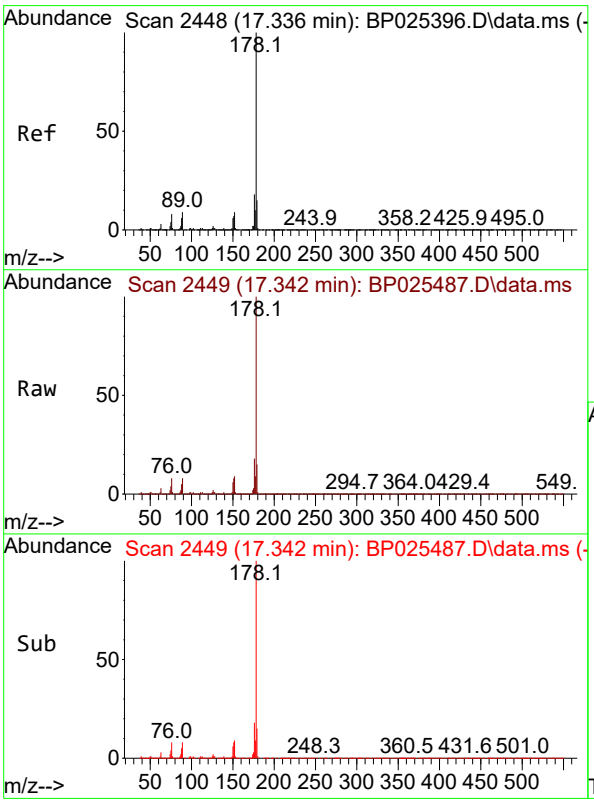
#71
Phenanthrene
Concen: 39.449 ng
RT: 17.242 min Scan# 24
Delta R.T. -0.000 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:178 Resp: 1961812

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.5	23.3
179	15.7	12.2	18.4

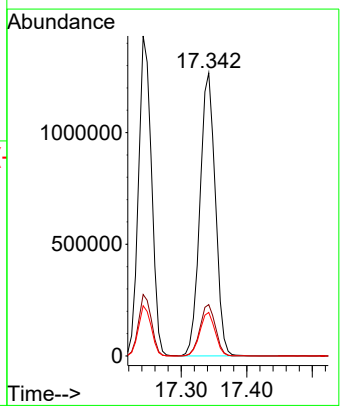


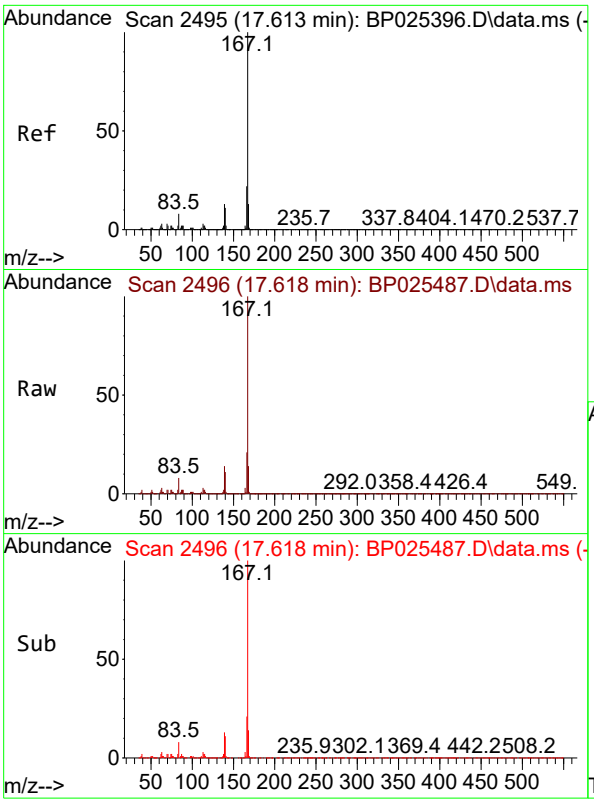


#72
Anthracene
Concen: 40.780 ng
RT: 17.342 min Scan# 2449
Delta R.T. 0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:178 Resp: 2071008

Ion	Ratio	Lower	Upper
178	100		
176	18.1	14.7	22.1
179	15.4	12.2	18.2



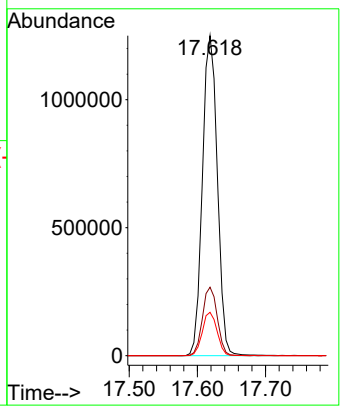


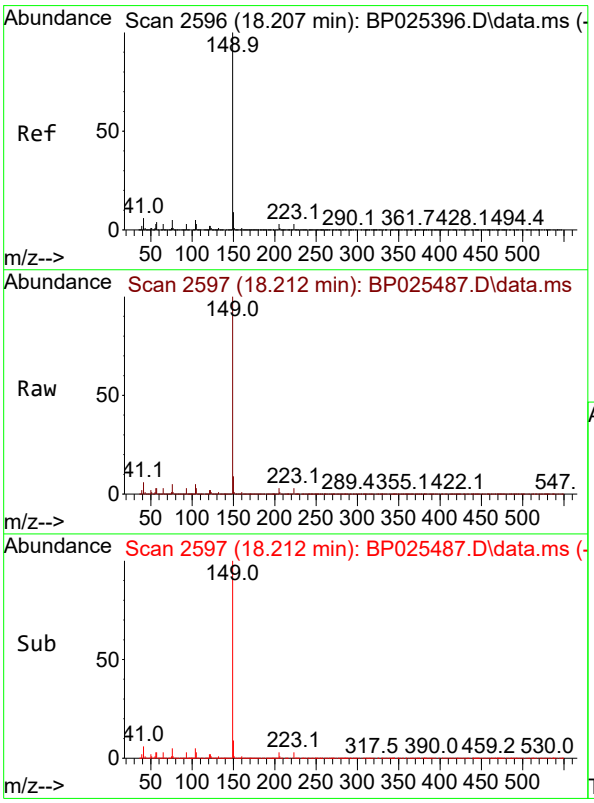
#73
Carbazole
Concen: 39.801 ng
RT: 17.618 min Scan# 24
Delta R.T. 0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:167 Resp: 1903889

Ion	Ratio	Lower	Upper
167	100		
166	21.4	17.5	26.3
139	13.6	10.6	16.0

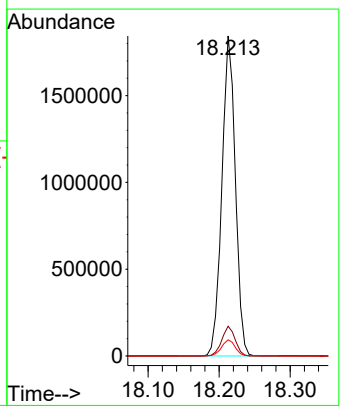


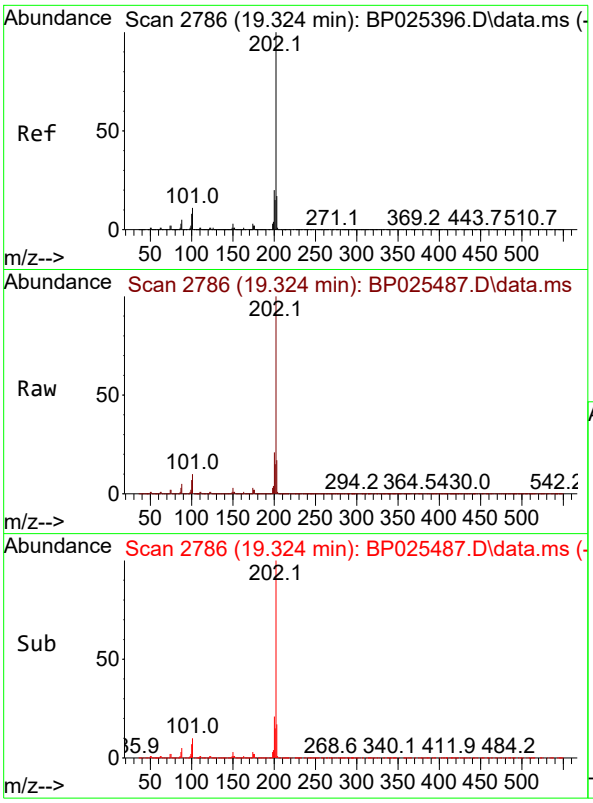


#74
Di-n-butylphthalate
Concen: 41.022 ng
RT: 18.212 min Scan# 2597
Delta R.T. 0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:149 Resp: 2414257

Ion	Ratio	Lower	Upper
149	100		
150	9.3	7.4	11.0
104	5.0	4.2	6.2



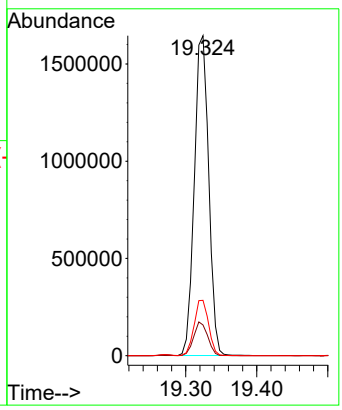


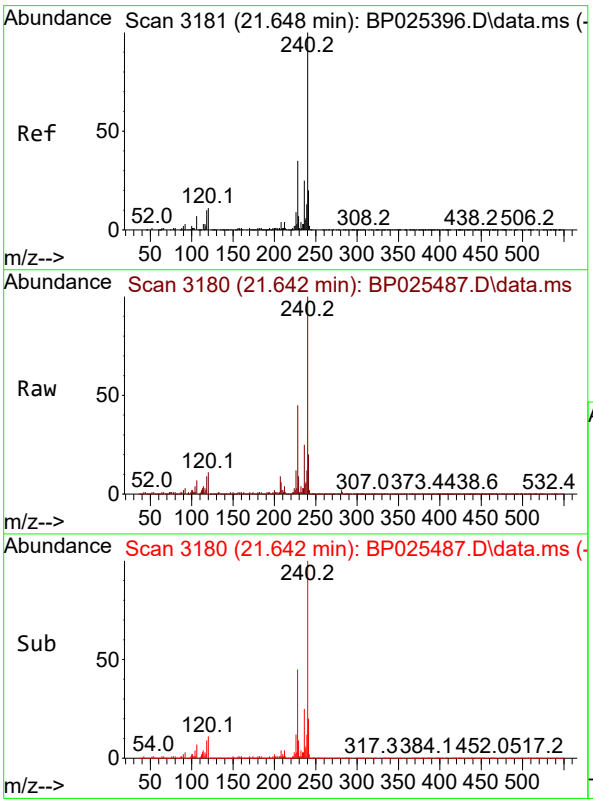
#75
Fluoranthene
Concen: 39.147 ng
RT: 19.324 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:202 Resp: 2322167

Ion	Ratio	Lower	Upper
202	100		
101	9.6	0.0	31.1
203	17.3	0.0	37.3

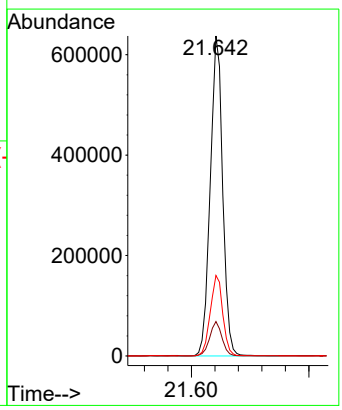


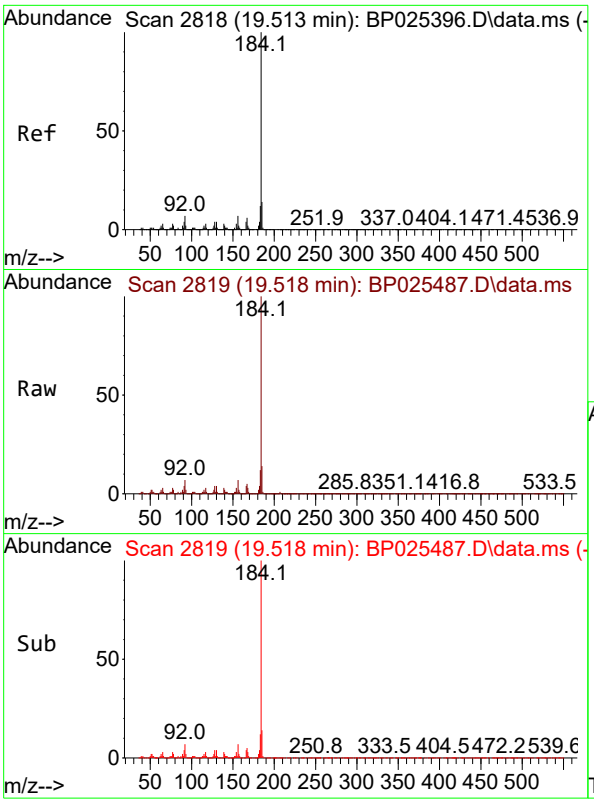


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.642 min Scan# 3180
Delta R.T. -0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:240 Resp: 932001

Ion	Ratio	Lower	Upper
240	100		
120	10.7	8.9	13.3
236	25.1	19.8	29.8



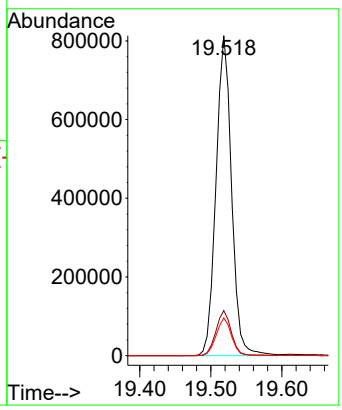


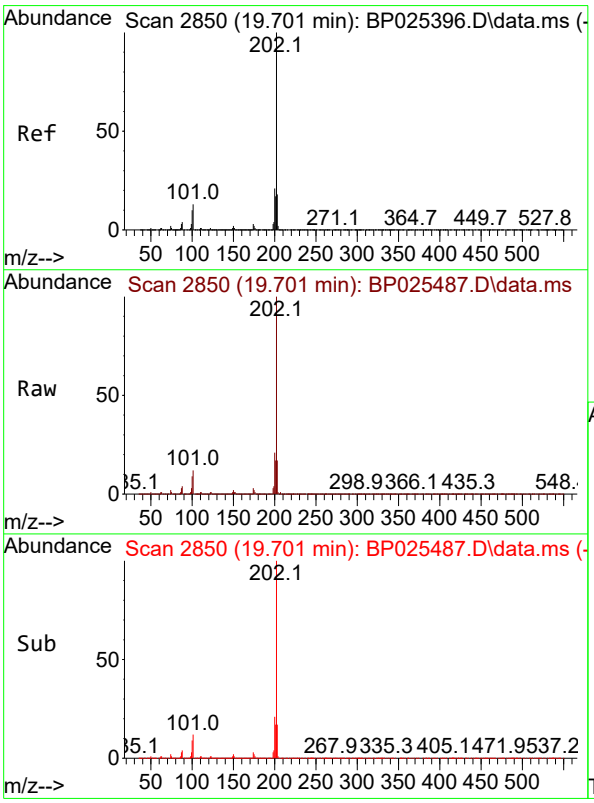
#77
Benzidine
Concen: 38.735 ng
RT: 19.518 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:184 Resp: 1232065

Ion	Ratio	Lower	Upper
184	100		
185	14.1	11.5	17.3
183	11.8	9.4	14.2

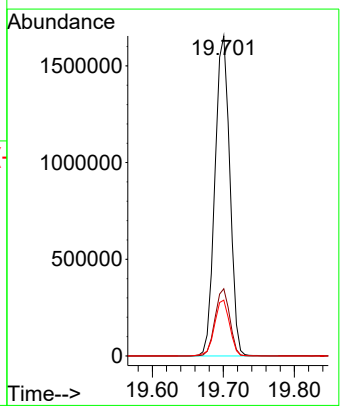


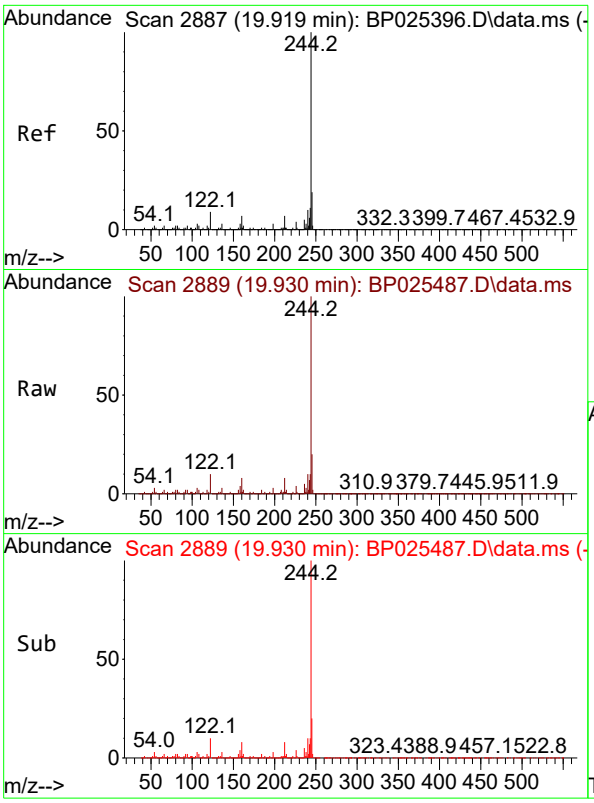


#78
Pyrene
Concen: 39.527 ng
RT: 19.701 min Scan# 2850
Delta R.T. -0.000 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:202 Resp: 2394461

Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.9	25.3
203	17.5	14.2	21.2



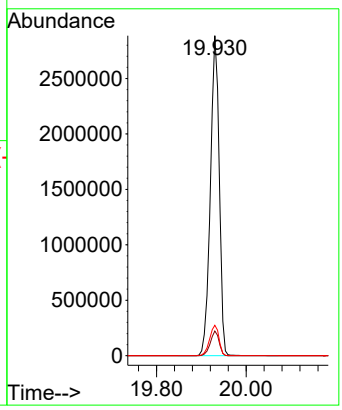


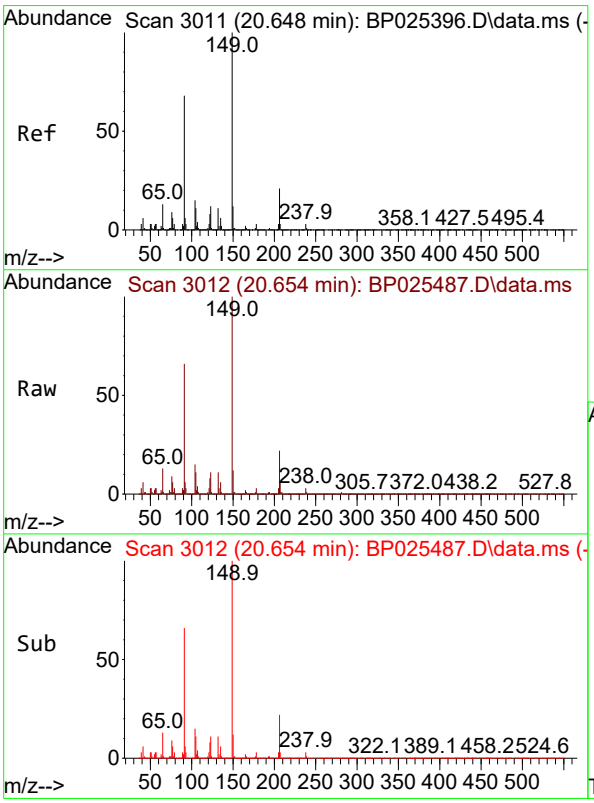
#79
Terphenyl-d14
Concen: 77.640 ng
RT: 19.930 min Scan# 2
Delta R.T. 0.012 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:244 Resp: 3955073

Ion	Ratio	Lower	Upper
244	100		
212	7.7	5.8	8.6
122	9.5	7.4	11.2

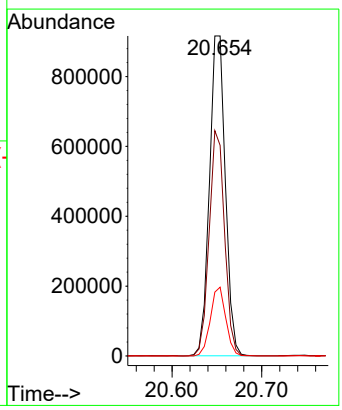


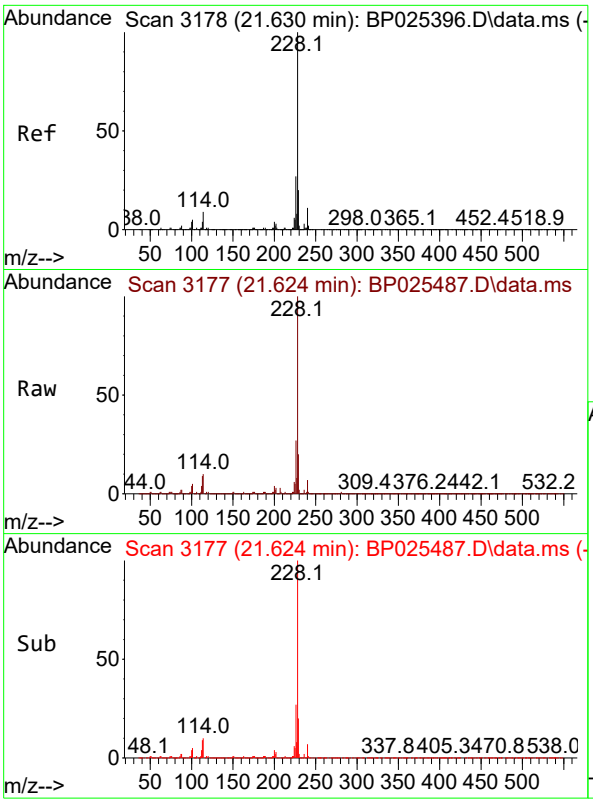


#80
Butylbenzylphthalate
Concen: 41.070 ng
RT: 20.654 min Scan# 3012
Delta R.T. 0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:149 Resp: 1127547

Ion	Ratio	Lower	Upper
149	100		
91	65.8	54.2	81.2
206	21.5	16.6	24.8



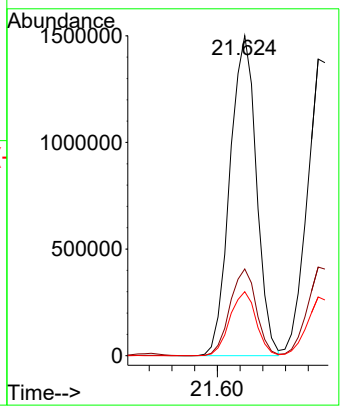


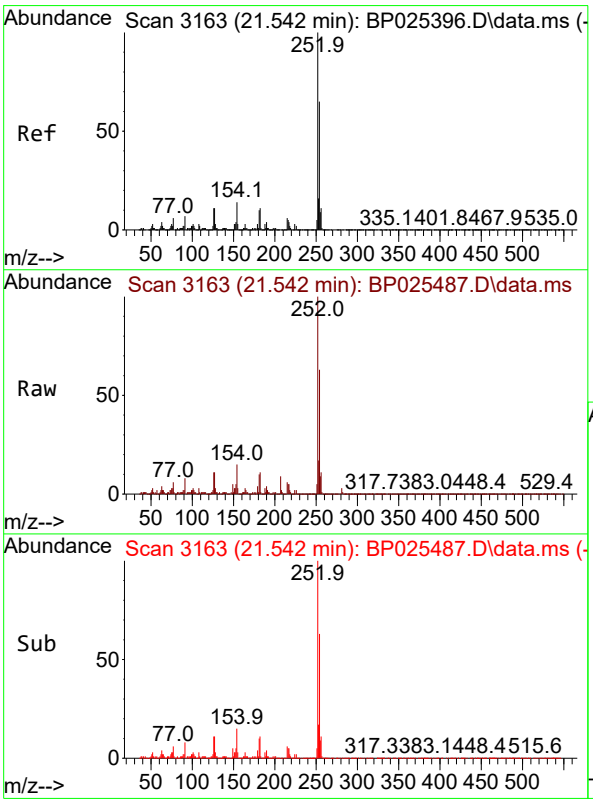
#81
Benzo(a)anthracene
Concen: 39.477 ng
RT: 21.624 min Scan# 3
Delta R.T. -0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:228 Resp: 2426505

Ion	Ratio	Lower	Upper
228	100		
226	27.1	21.7	32.5
229	20.0	15.6	23.4

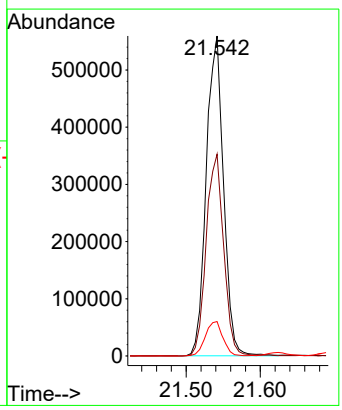


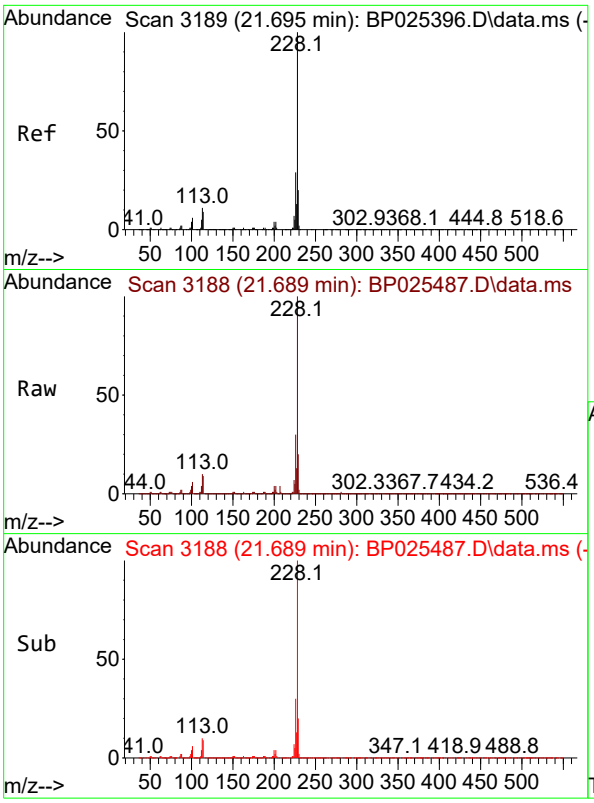


#82
3,3'-Dichlorobenzidine
Concen: 39.005 ng
RT: 21.542 min Scan# 3163
Delta R.T. -0.000 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:252 Resp: 903654

Ion	Ratio	Lower	Upper
252	100		
254	63.1	51.8	77.6
126	10.7	9.1	13.7



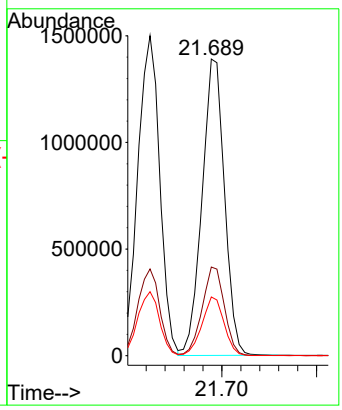


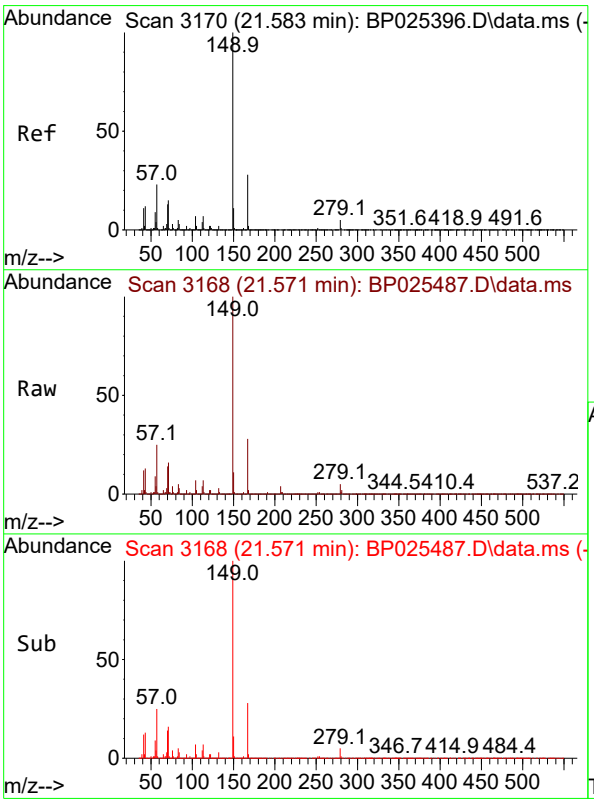
#83
Chrysene
Concen: 39.855 ng
RT: 21.689 min Scan# 3
Delta R.T. -0.006 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:228 Resp: 2294146

Ion	Ratio	Lower	Upper
228	100		
226	29.9	23.2	34.8
229	19.8	15.6	23.4

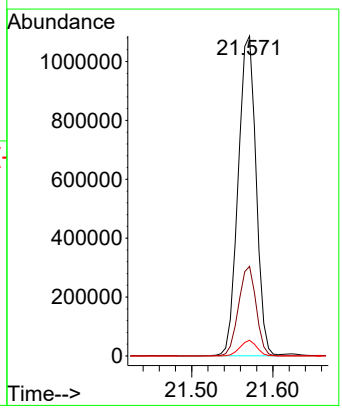


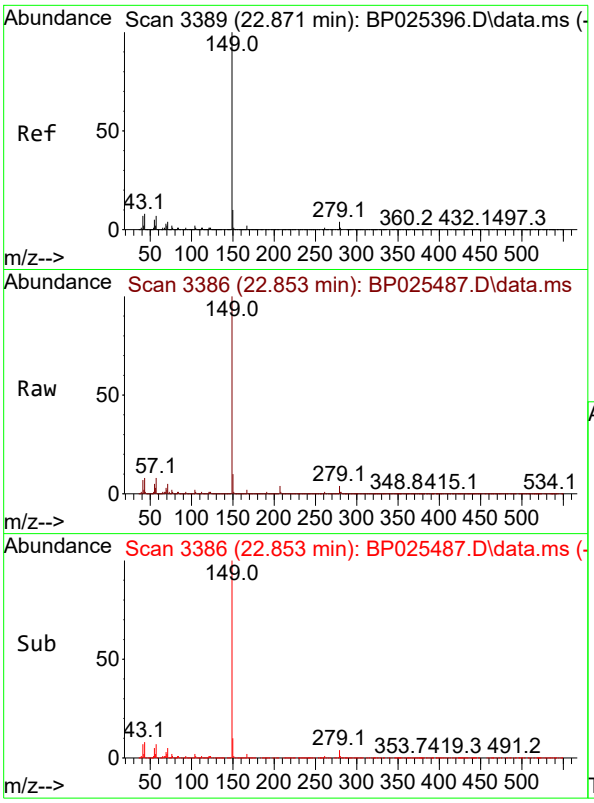


#84
Bis(2-ethylhexyl)phthalate
Concen: 41.071 ng
RT: 21.571 min Scan# 3168
Delta R.T. -0.012 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:149 Resp: 1659835

Ion	Ratio	Lower	Upper
149	100		
167	28.0	22.1	33.1
279	4.9	3.8	5.6



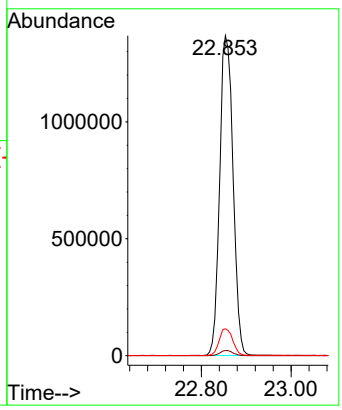


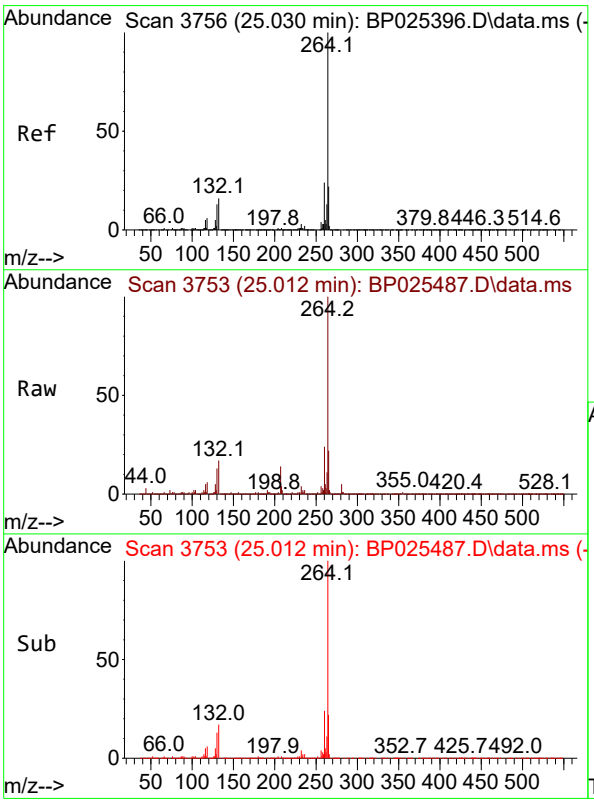
#85
Di-n-octyl phthalate
Concen: 40.906 ng
RT: 22.853 min Scan# 3
Delta R.T. -0.018 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:149 Resp: 2843533

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	8.5	6.3	9.5

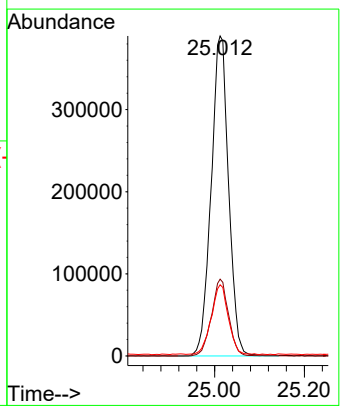


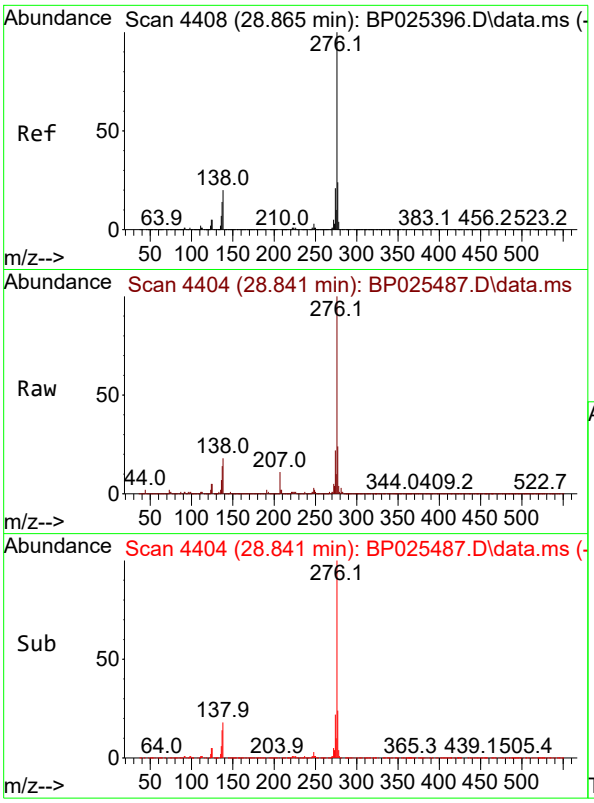


#86
Perylene-d12
Concen: 20.000 ng
RT: 25.012 min Scan# 3753
Delta R.T. -0.018 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:264 Resp: 1054169

Ion	Ratio	Lower	Upper
264	100		
260	24.0	19.3	28.9
265	22.2	17.4	26.0



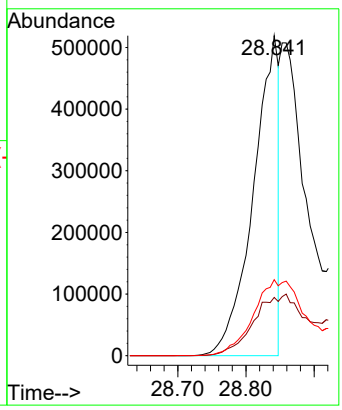


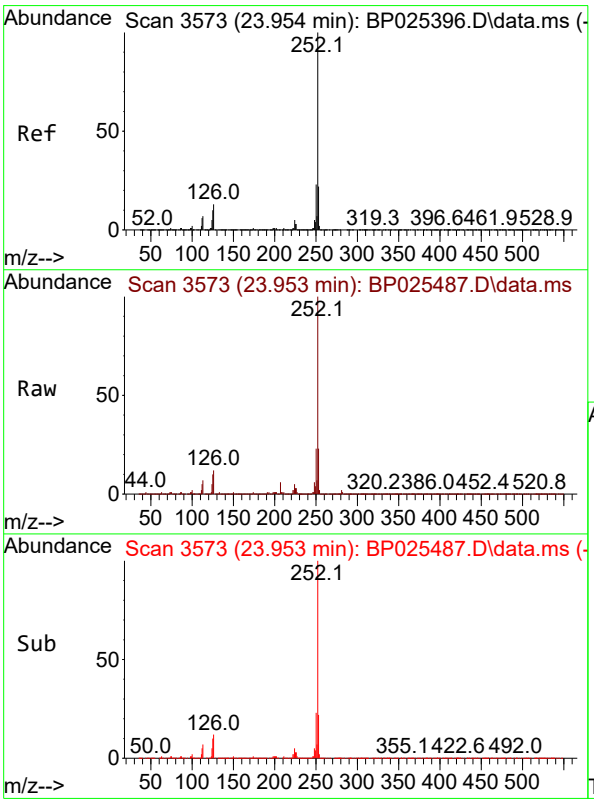
#87
Indeno(1,2,3-cd)pyrene
Concen: 17.316 ng
RT: 28.841 min Scan# 4
Delta R.T. -0.024 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:276 Resp: 1338699

Ion	Ratio	Lower	Upper
276	100		
138	38.7	12.9	19.3#
277	24.3	17.0	25.6

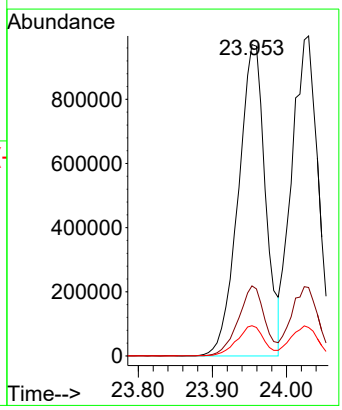


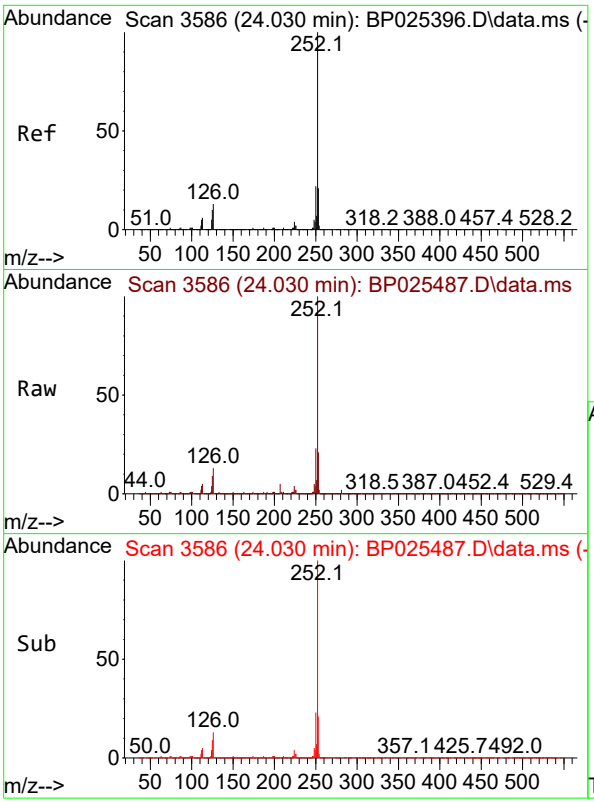


#88
Benzo(b)fluoranthene
Concen: 39.761 ng
RT: 23.953 min Scan# 3573
Delta R.T. -0.000 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:252 Resp: 2471608

Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.7	26.5
125	9.7	7.9	11.9



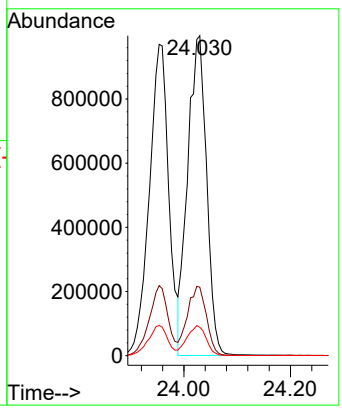


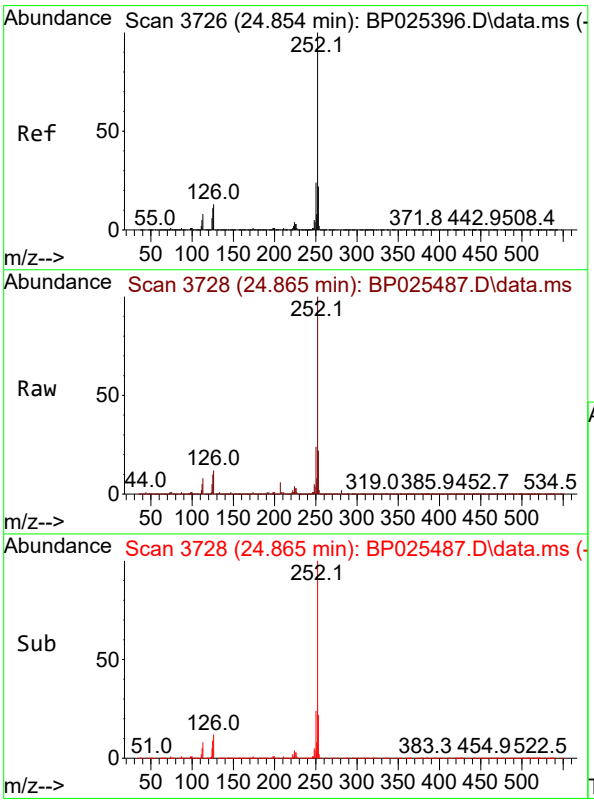
#89
Benzo(k)fluoranthene
Concen: 39.407 ng
RT: 24.030 min Scan# 3
Delta R.T. -0.000 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:252 Resp: 2451237

Ion	Ratio	Lower	Upper
252	100		
253	21.4	17.1	25.7
125	8.9	7.8	11.6

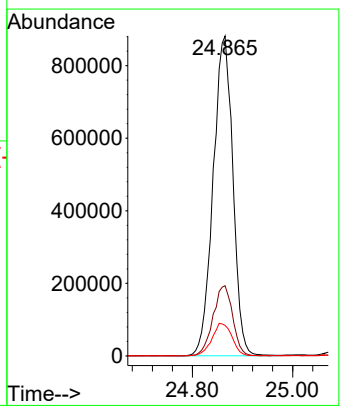


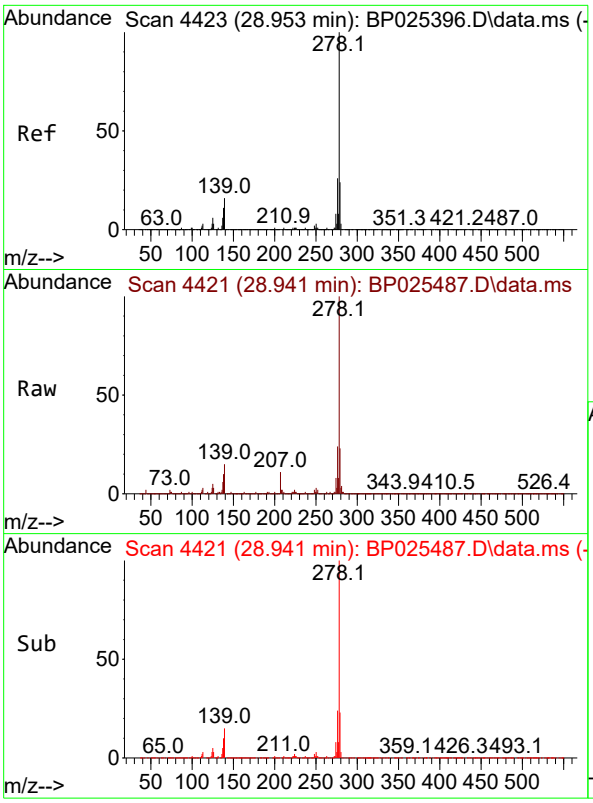


#90
Benzo(a)pyrene
Concen: 39.773 ng
RT: 24.865 min Scan# 3728
Delta R.T. 0.012 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:252 Resp: 2406620

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.5	26.3
125	9.5	8.7	13.1



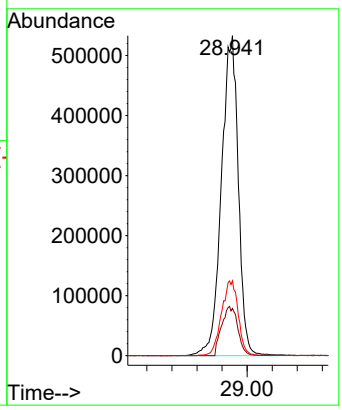


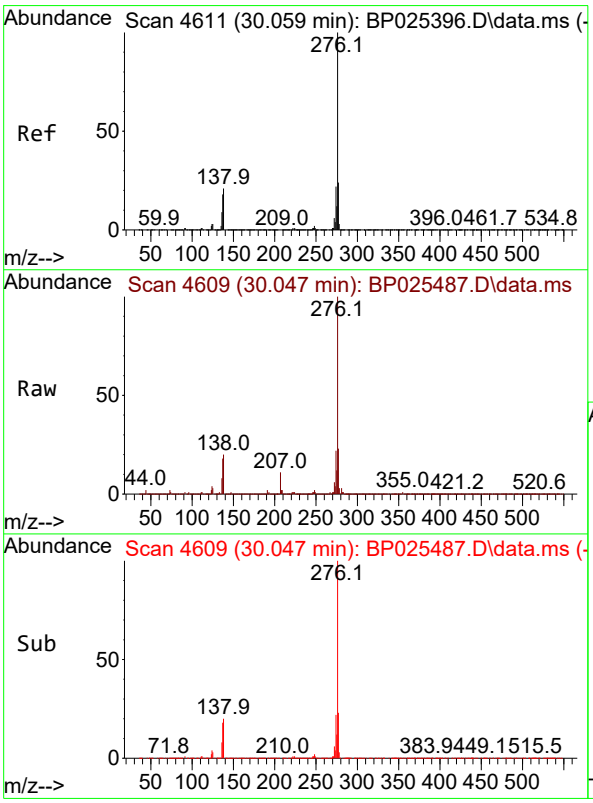
#91
Dibenzo(a,h)anthracene
Concen: 39.366 ng
RT: 28.941 min Scan# 4
Delta R.T. -0.012 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:278 Resp: 2487038

Ion	Ratio	Lower	Upper
278	100		
139	14.8	13.0	19.4
279	23.4	19.4	29.2

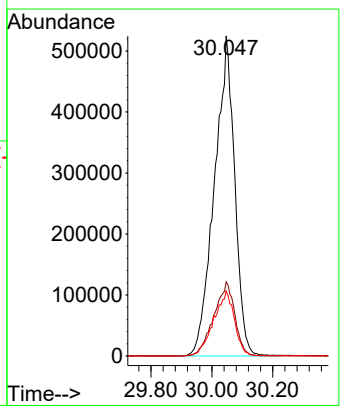




#92
Benzo(g,h,i)perylene
Concen: 39.026 ng
RT: 30.047 min Scan# 4609
Delta R.T. -0.012 min
Lab File: BP025487.D
Acq: 19 Aug 2025 23:46

Tgt Ion:276 Resp: 2423566

Ion	Ratio	Lower	Upper
276	100		
277	23.2	19.4	29.0
138	20.3	16.7	25.1



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081925\
Data File : BP025502.D
Acq On : 20 Aug 2025 10:41
Operator : CG/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 33 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Quant Time: Aug 20 11:50:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.784	152	147637	20.000	ng	-0.01
21) Naphthalene-d8	10.554	136	617928	20.000	ng	0.00
39) Acenaphthene-d10	14.407	164	400331	20.000	ng	0.00
64) Phenanthrene-d10	17.207	188	794586	20.000	ng	0.00
76) Chrysene-d12	21.648	240	859938	20.000	ng	0.00
86) Perylene-d12	25.018	264	959319	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.402	112	719851	80.973	ng	0.00
7) Phenol-d6	6.966	99	928207	81.437	ng	0.00
23) Nitrobenzene-d5	8.931	82	996684	81.592	ng	0.00
42) 2,4,6-Tribromophenol	15.919	330	434204	80.580	ng	0.00
45) 2-Fluorobiphenyl	13.019	172	2329621	79.531	ng	0.00
79) Terphenyl-d14	19.930	244	3655452	77.772	ng	0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	3.331	88	143916	41.329	ng	98
3) Pyridine	3.731	79	384461	40.337	ng	95
4) n-Nitrosodimethylamine	3.631	42	170424	43.372	ng	94
6) Aniline	7.119	93	617192	40.190	ng	97
8) 2-Chlorophenol	7.360	128	401335	40.005	ng	98
9) Benzaldehyde	6.937	77	190261	23.826	ng	96
10) Phenol	6.990	94	487981	40.802	ng	96
11) bis(2-Chloroethyl)ether	7.219	93	374074	40.129	ng	99
12) 1,3-Dichlorobenzene	7.678	146	441153	39.880	ng	96
13) 1,4-Dichlorobenzene	7.819	146	454745	40.220	ng	99
14) 1,2-Dichlorobenzene	8.137	146	437042	39.931	ng	98
15) Benzyl Alcohol	8.019	79	368154	40.652	ng	97
16) 2,2'-oxybis(1-Chloropr...	8.313	45	520729	41.700	ng	98
17) 2-Methylphenol	8.225	107	336589	40.522	ng	100
18) Hexachloroethane	8.860	117	170458	41.003	ng	97
19) n-Nitroso-di-n-propyla...	8.584	70	303621	40.216	ng	97
20) 3+4-Methylphenols	8.549	107	458019	39.780	ng	97
22) Acetophenone	8.601	105	619709	39.991	ng	98
24) Nitrobenzene	8.972	77	440063	40.309	ng	98
25) Isophorone	9.496	82	864797	40.003	ng	100
26) 2-Nitrophenol	9.678	139	223032	39.808	ng	97
27) 2,4-Dimethylphenol	9.737	122	385100	39.968	ng	97
28) bis(2-Chloroethoxy)met...	9.966	93	515756	39.468	ng	98
29) 2,4-Dichlorophenol	10.207	162	387958	40.533	ng	99
30) 1,2,4-Trichlorobenzene	10.419	180	408012	38.887	ng	97
31) Naphthalene	10.607	128	1252509	38.998	ng	100
32) Benzoic acid	9.878	122	284166	39.948	ng	96
33) 4-Chloroaniline	10.713	127	561871	39.605	ng	99
34) Hexachlorobutadiene	10.895	225	261058	39.951	ng	96
35) Caprolactam	11.490	113	136092	38.776	ng	98
36) 4-Chloro-3-methylphenol	11.831	107	441463	40.195	ng	96
37) 2-Methylnaphthalene	12.219	142	809155	38.714	ng	99
38) 1-Methylnaphthalene	12.437	142	851212	38.296	ng	100
40) 1,2,4,5-Tetrachloroben...	12.584	216	469176	40.579	ng	99
41) Hexachlorocyclopentadiene	12.566	237	291550	41.746	ng	99
43) 2,4,6-Trichlorophenol	12.831	196	319303	40.907	ng	98

Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081925\
Data File : BP025502.D
Acq On : 20 Aug 2025 10:41
Operator : CG/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 33 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Quant Time: Aug 20 11:50:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.895	196	350964	41.026	ng	99
46) 1,1'-Biphenyl	13.225	154	1153599	39.678	ng	99
47) 2-Chloronaphthalene	13.272	162	900445	39.783	ng	98
48) 2-Nitroaniline	13.472	65	281785	42.727	ng	97
49) Acenaphthylene	14.125	152	1492877	39.860	ng	100
50) Dimethylphthalate	13.854	163	1165139	39.744	ng	99
51) 2,6-Dinitrotoluene	13.972	165	253787	41.073	ng	93
52) Acenaphthene	14.478	154	943497	42.917	ng	99
53) 3-Nitroaniline	14.301	138	285327	41.043	ng	97
54) 2,4-Dinitrophenol	14.507	184	142309	43.128	ng	97
55) Dibenzofuran	14.813	168	1363388	39.226	ng	98
56) 4-Nitrophenol	14.619	139	231578	40.538	ng	92
57) 2,4-Dinitrotoluene	14.766	165	365491	41.459	ng	96
58) Fluorene	15.466	166	1053490	38.412	ng	99
59) 2,3,4,6-Tetrachlorophenol	15.036	232	306484	40.574	ng	98
60) Diethylphthalate	15.242	149	1206790	40.513	ng	99
61) 4-Chlorophenyl-phenyle...	15.466	204	531056	38.934	ng	97
62) 4-Nitroaniline	15.483	138	288849	40.530	ng	93
63) Azobenzene	15.766	77	1076346	42.199	ng	98
65) 4,6-Dinitro-2-methylph...	15.542	198	207617	41.917	ng	93
66) n-Nitrosodiphenylamine	15.678	169	973360	40.171	ng	99
67) 4-Bromophenyl-phenylether	16.378	248	351898	40.268	ng	97
68) Hexachlorobenzene	16.495	284	404392	39.919	ng	98
69) Atrazine	16.654	200	364653	40.186	ng	100
70) Pentachlorophenol	16.842	266	271451	42.449	ng	96
71) Phenanthrene	17.242	178	1705125	39.064	ng	99
72) Anthracene	17.336	178	1754702	39.365	ng	99
73) Carbazole	17.613	167	1650038	39.300	ng	99
74) Di-n-butylphthalate	18.213	149	2085492	40.373	ng	100
75) Fluoranthene	19.330	202	2058062	39.528	ng	99
77) Benzidine	19.519	184	965340	32.893	ng	99
78) Pyrene	19.701	202	2123016	37.983	ng	100
80) Butylbenzylphthalate	20.654	149	1028893	40.617	ng	98
81) Benzo(a)anthracene	21.630	228	2219096	39.128	ng	99
82) 3,3'-Dichlorobenzidine	21.542	252	839996	39.295	ng	99
83) Chrysene	21.695	228	2094426	39.434	ng	99
84) Bis(2-ethylhexyl)phtha...	21.571	149	1528918	41.001	ng	99
85) Di-n-octyl phthalate	22.865	149	2647644	41.280	ng	98
87) Indeno(1,2,3-cd)pyrene	28.842	276	2736984	38.904	ng	98
88) Benzo(b)fluoranthene	23.959	252	2250091	39.777	ng	99
89) Benzo(k)fluoranthene	24.036	252	2294595	40.536	ng	99
90) Benzo(a)pyrene	24.871	252	2174497	39.490	ng	100
91) Dibenzo(a,h)anthracene	28.936	278	2262080	39.346	ng	98
92) Benzo(g,h,i)perylene	30.042	276	2184778	38.659	ng	100

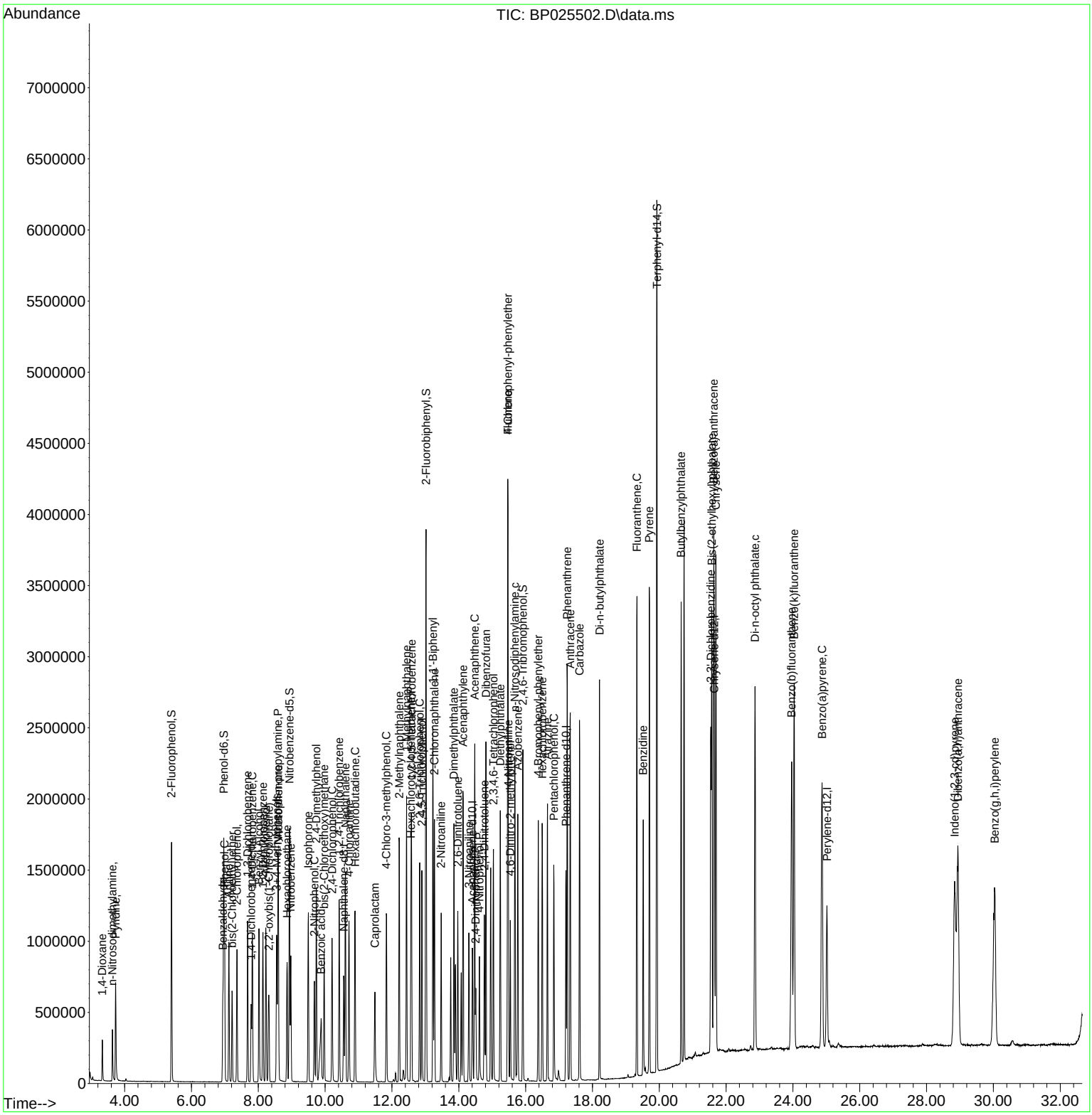
(#) = qualifier out of range (m) = manual integration (+) = signals summed

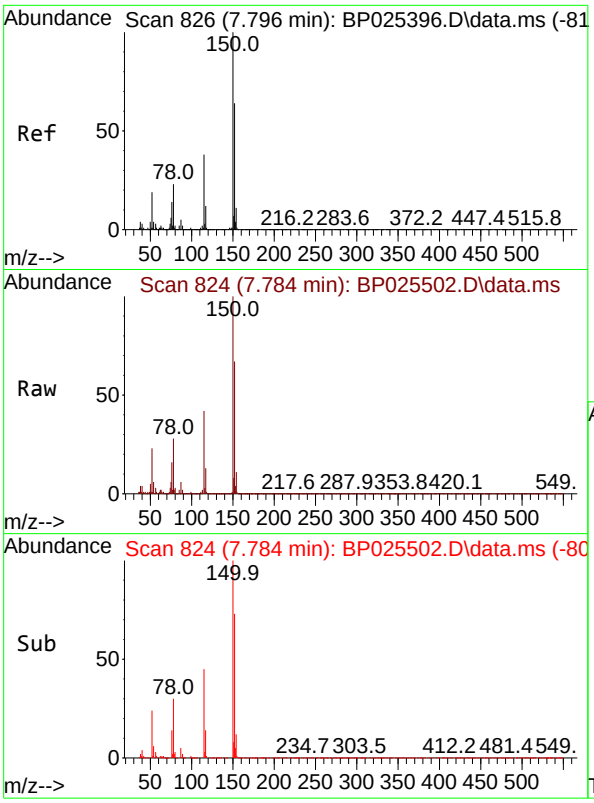
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081925\
Data File : BP025502.D
Acq On : 20 Aug 2025 10:41
Operator : CG/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 33 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Quant Time: Aug 20 11:50:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration



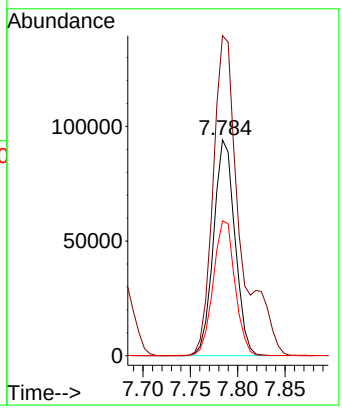


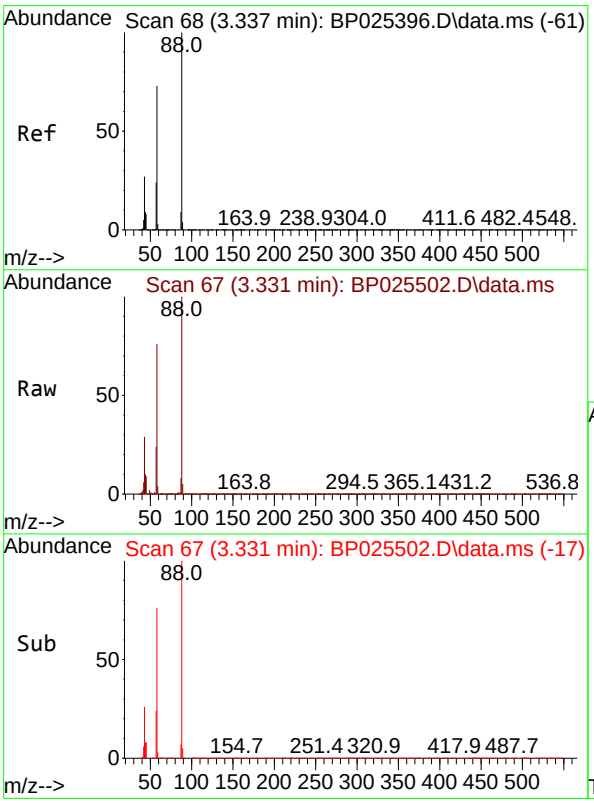
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.784 min Scan# 8
Delta R.T. -0.012 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:152 Resp: 147637

Ion	Ratio	Lower	Upper
152	100		
150	148.3	125.9	188.9
115	62.5	48.5	72.7

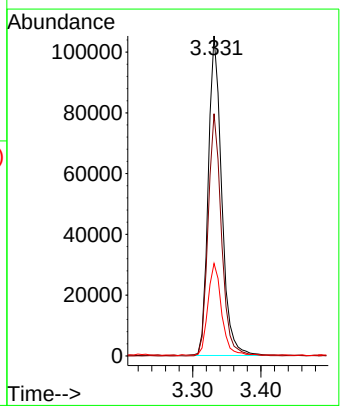


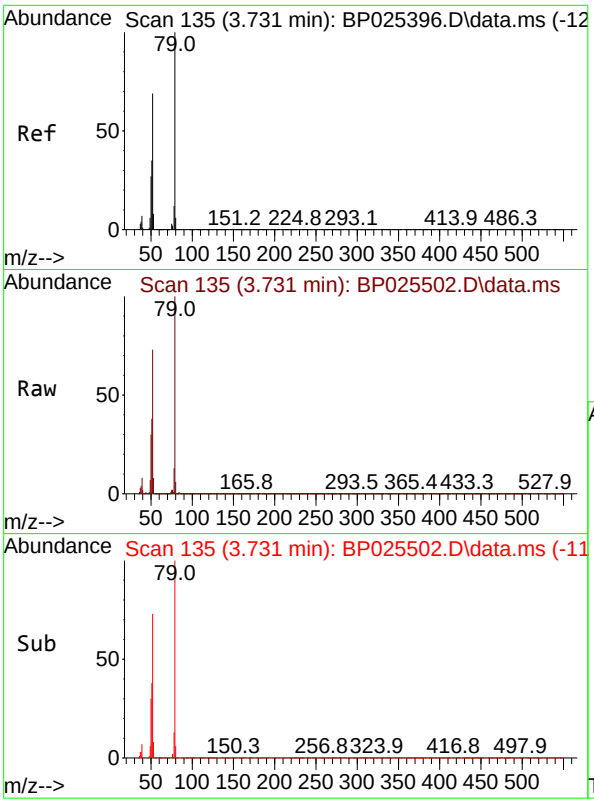


#2
1,4-Dioxane
Concen: 41.329 ng
RT: 3.331 min Scan# 67
Delta R.T. -0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion: 88 Resp: 143916

Ion	Ratio	Lower	Upper
88	100		
58	75.4	59.2	88.8
43	28.9	21.7	32.5



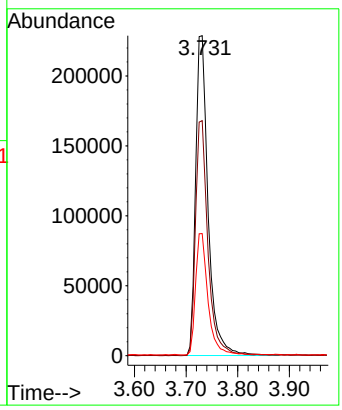


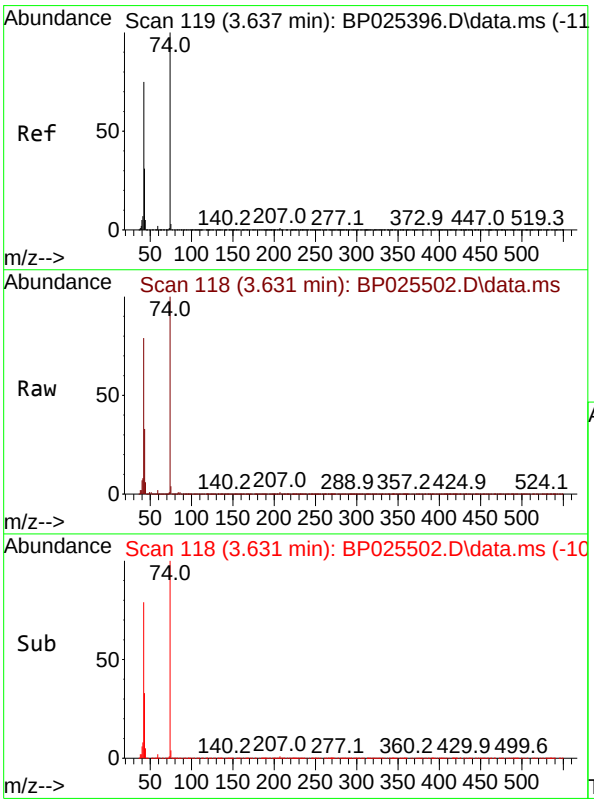
#3
Pyridine
Concen: 40.337 ng
RT: 3.731 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 79 Resp: 384461

Ion	Ratio	Lower	Upper
79	100		
52	73.4	55.5	83.3
51	38.2	28.3	42.5

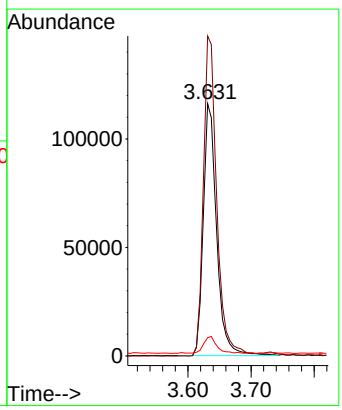


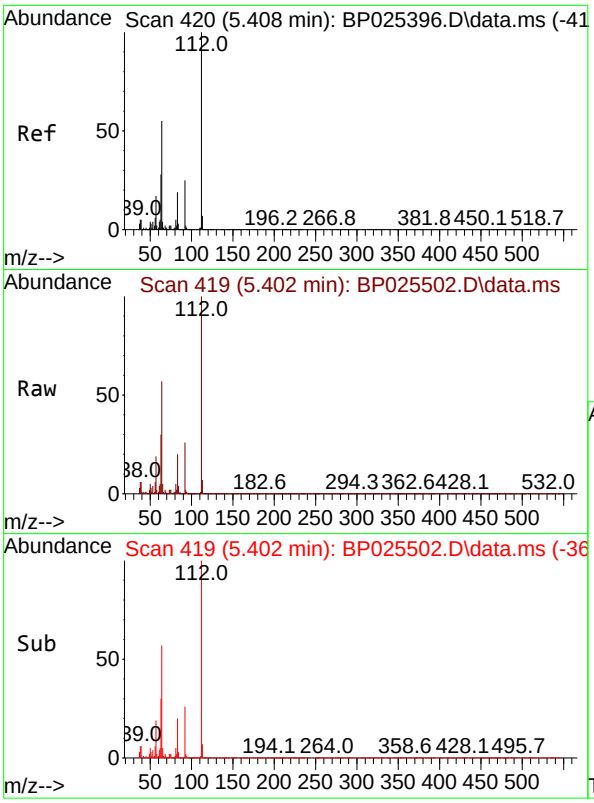


#4
n-Nitrosodimethylamine
Concen: 43.372 ng
RT: 3.631 min Scan# 118
Delta R.T. -0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion: 42 Resp: 170424

Ion	Ratio	Lower	Upper
42	100		
74	126.8	107.0	160.4
44	7.2	6.2	9.4



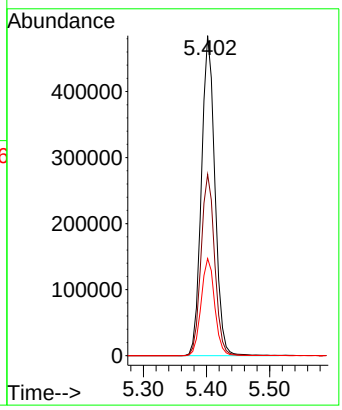


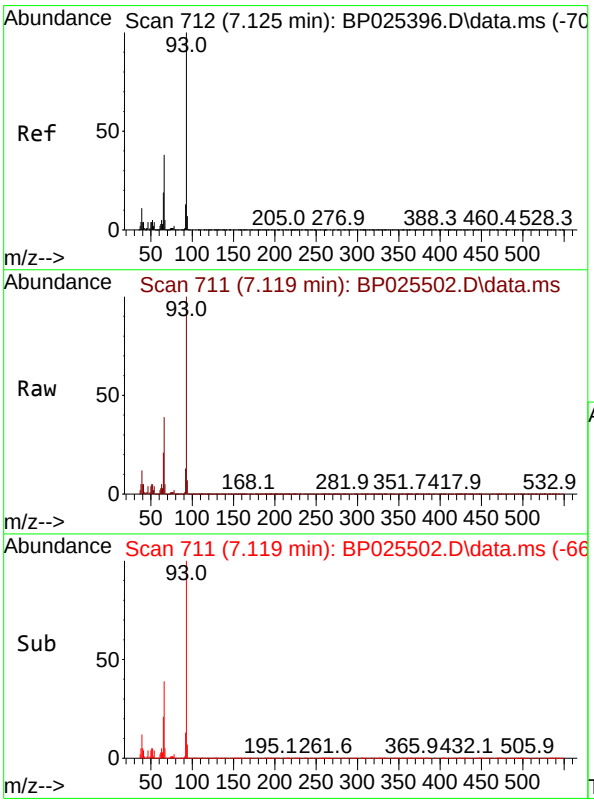
#5
2-Fluorophenol
Concen: 80.973 ng
RT: 5.402 min Scan# 41
Delta R.T. -0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:112 Resp: 719851

Ion	Ratio	Lower	Upper
112	100		
64	56.6	43.8	65.8
63	30.4	22.7	34.1

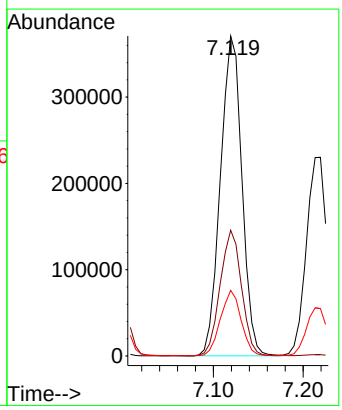


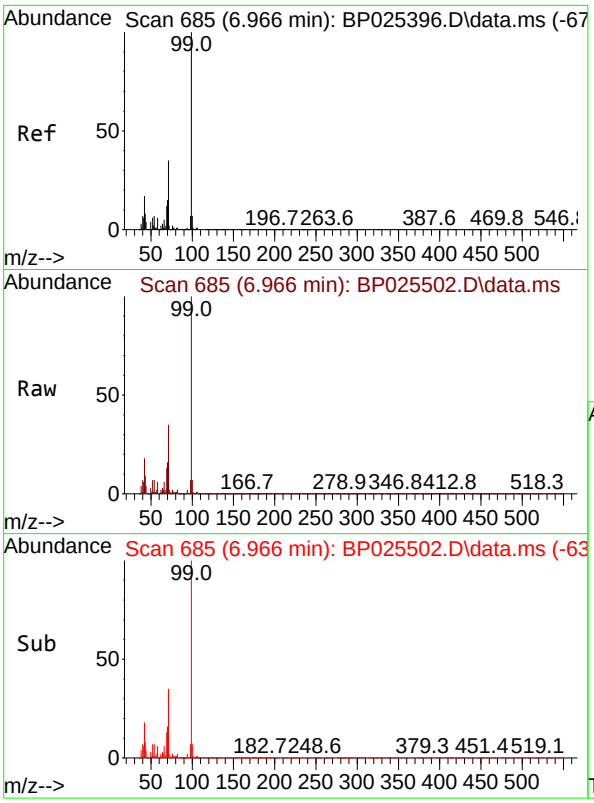


#6
Aniline
Concen: 40.190 ng
RT: 7.119 min Scan# 711
Delta R.T. -0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion: 93 Resp: 617192

Ion	Ratio	Lower	Upper
93	100		
66	39.3	30.4	45.6
65	20.5	15.3	22.9



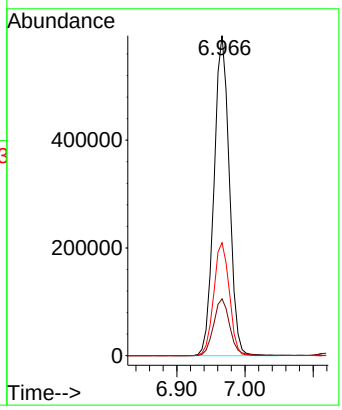


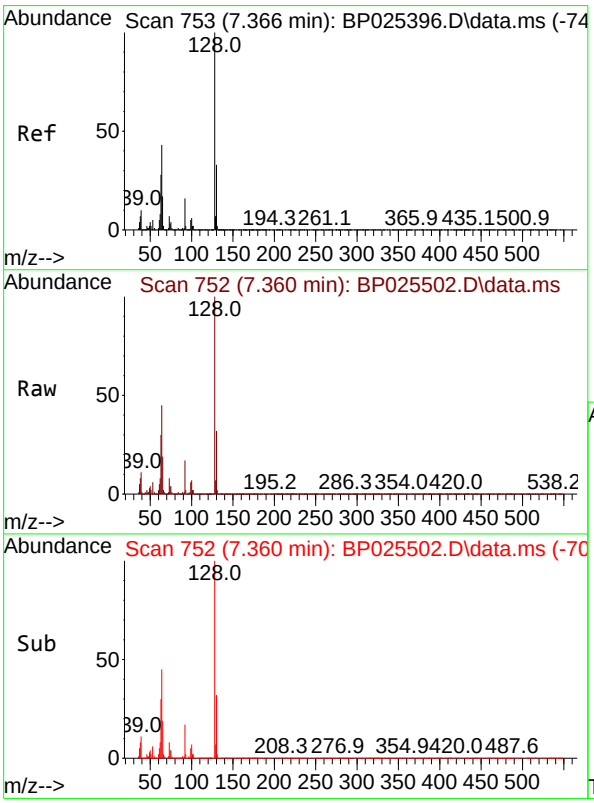
#7
Phenol-d6
Concen: 81.437 ng
RT: 6.966 min Scan# 6
Delta R.T. -0.000 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 99 Resp: 928207

Ion	Ratio	Lower	Upper
99	100		
42	17.8	13.7	20.5
71	35.3	28.2	42.4

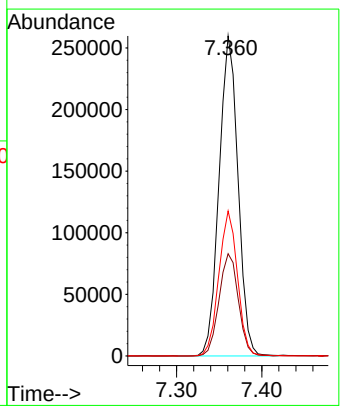


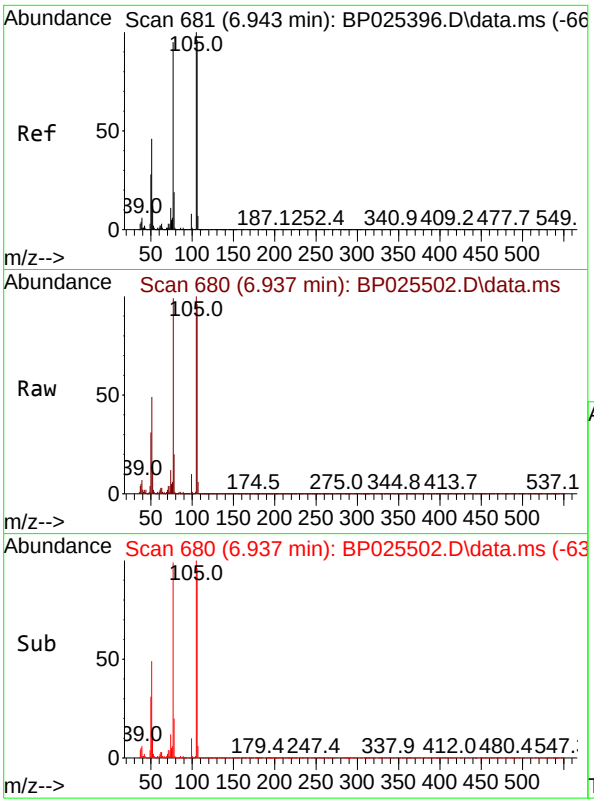


#8
2-Chlorophenol
Concen: 40.005 ng
RT: 7.360 min Scan# 752
Delta R.T. -0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:128 Resp: 401335

Ion	Ratio	Lower	Upper
128	100		
130	32.0	12.6	52.6
64	45.3	23.4	63.4



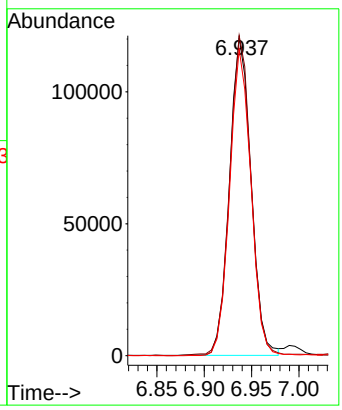


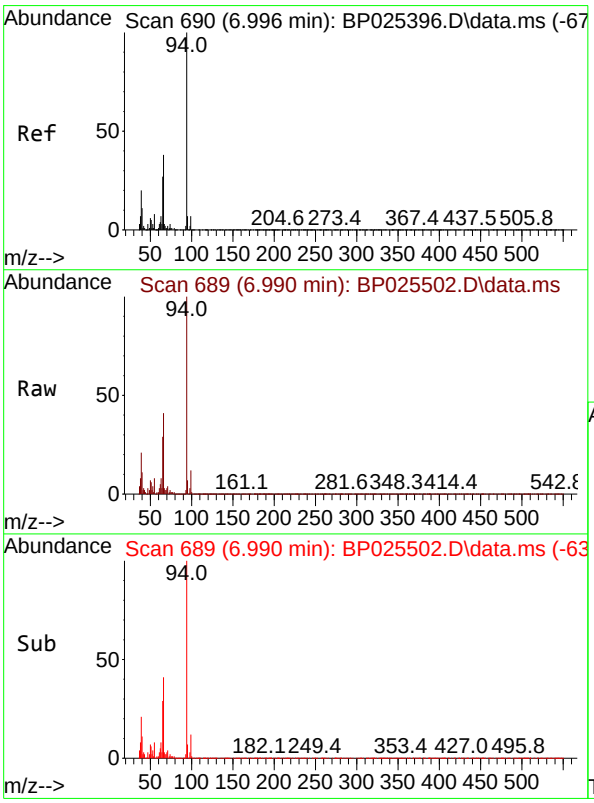
#9
Benzaldehyde
Concen: 23.826 ng
RT: 6.937 min Scan# 6
Delta R.T. -0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 77 Resp: 190261

Ion	Ratio	Lower	Upper
77	100		
105	100.6	84.8	124.8
106	96.4	80.5	120.5

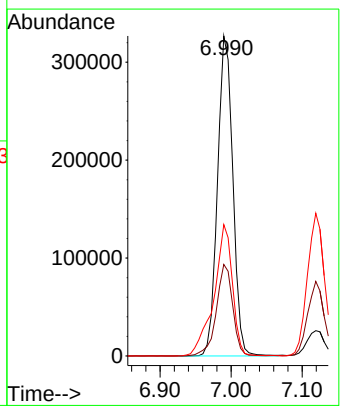


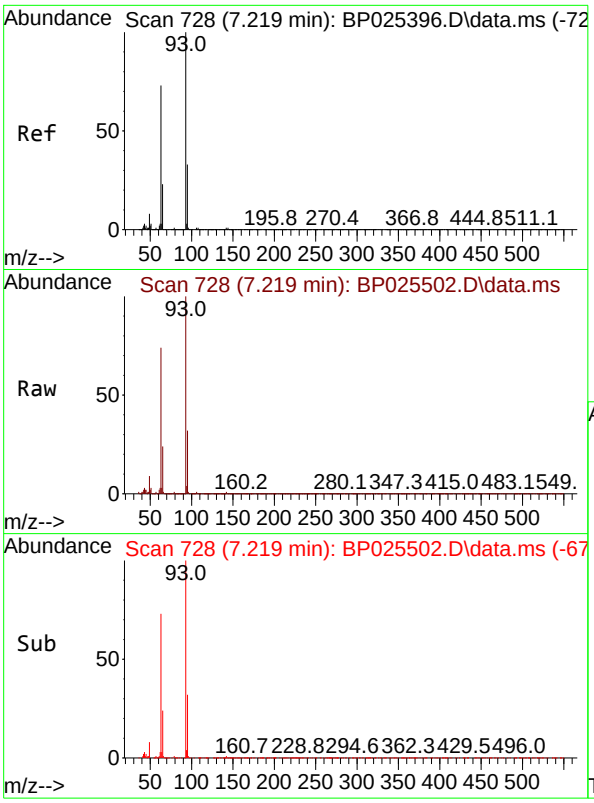


#10
Phenol
Concen: 40.802 ng
RT: 6.990 min Scan# 689
Delta R.T. -0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion: 94 Resp: 487981

Ion	Ratio	Lower	Upper
94	100		
65	28.6	6.8	46.8
66	41.1	18.2	58.2



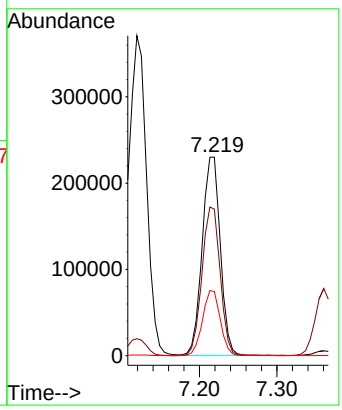


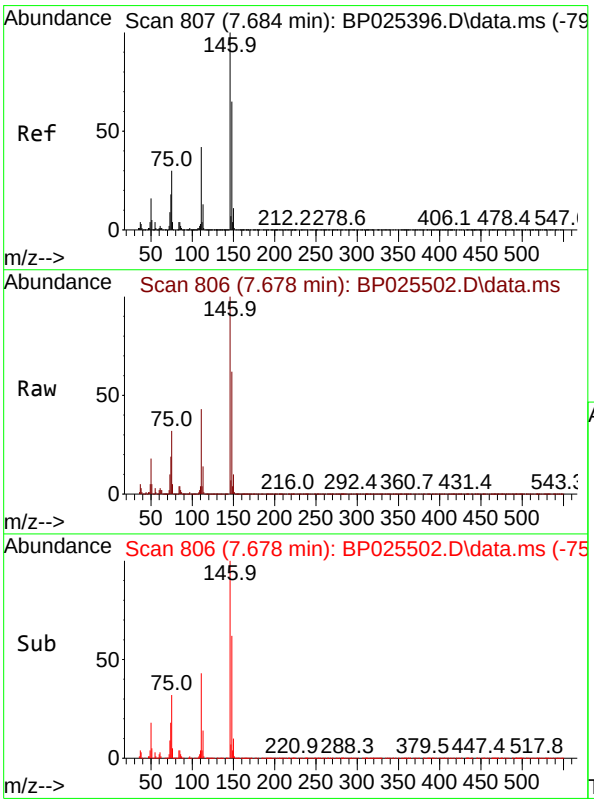
#11
bis(2-Chloroethyl)ether
Concen: 40.129 ng
RT: 7.219 min Scan# 7
Delta R.T. -0.000 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 93 Resp: 374074

Ion	Ratio	Lower	Upper
93	100		
63	73.8	52.6	92.6
95	32.3	12.7	52.7

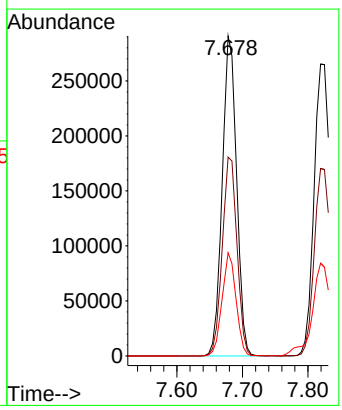


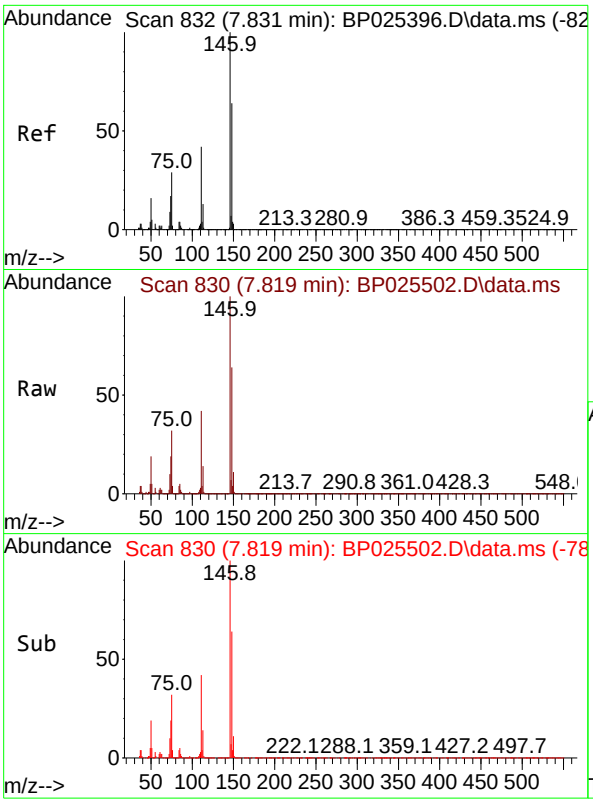


#12
1,3-Dichlorobenzene
Concen: 39.880 ng
RT: 7.678 min Scan# 806
Delta R.T. -0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:146 Resp: 441153

Ion	Ratio	Lower	Upper
146	100		
148	62.1	51.9	77.9
75	32.3	23.7	35.5



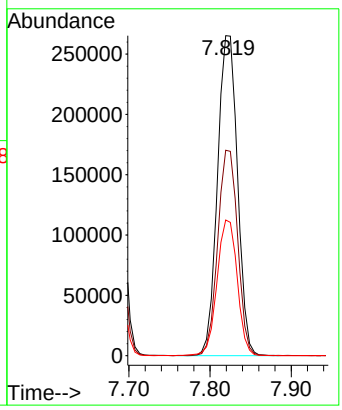


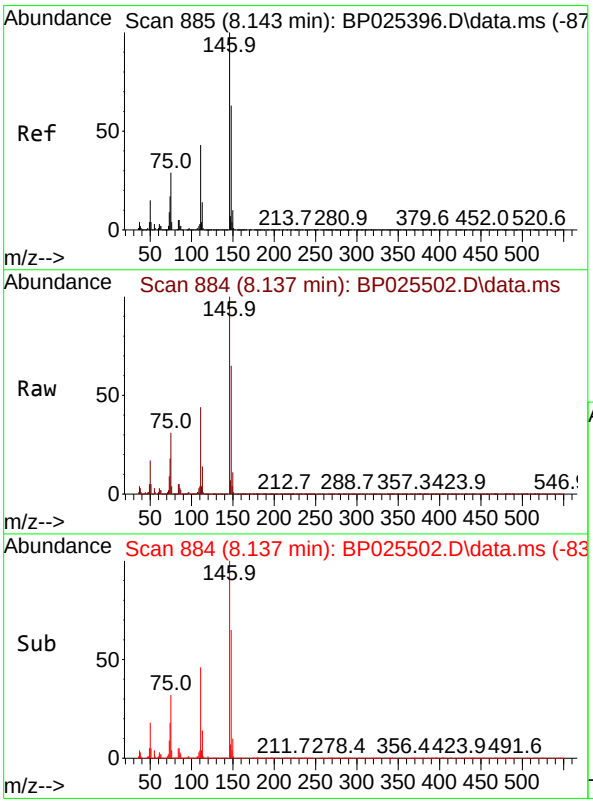
#13
1,4-Dichlorobenzene
Concen: 40.220 ng
RT: 7.819 min Scan# 8
Delta R.T. -0.012 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:146 Resp: 454745

Ion	Ratio	Lower	Upper
146	100		
148	64.2	51.6	77.4
111	42.4	33.4	50.0

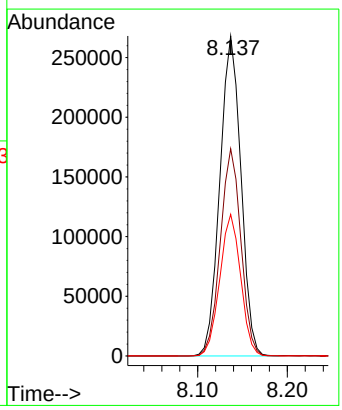


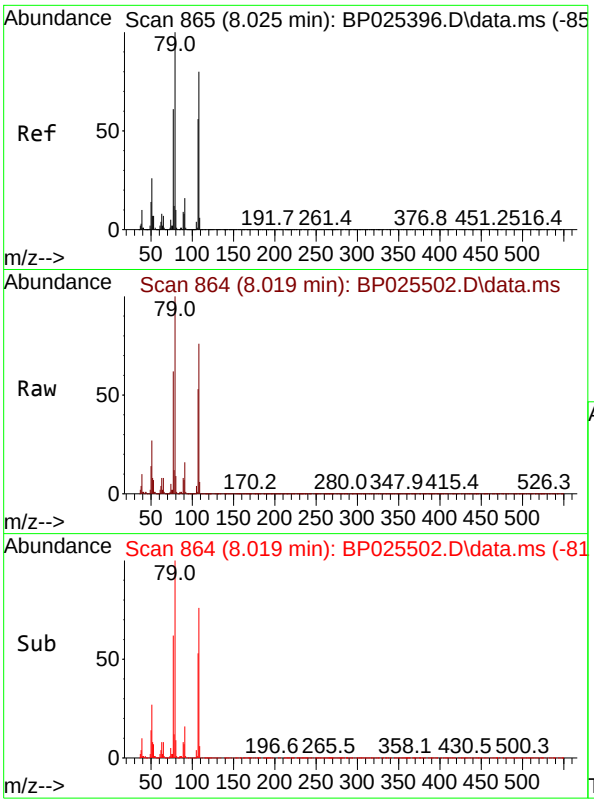


#14
1,2-Dichlorobenzene
Concen: 39.931 ng
RT: 8.137 min Scan# 884
Delta R.T. -0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:146 Resp: 437042

Ion	Ratio	Lower	Upper
146	100		
148	64.7	50.4	75.6
111	44.3	34.5	51.7



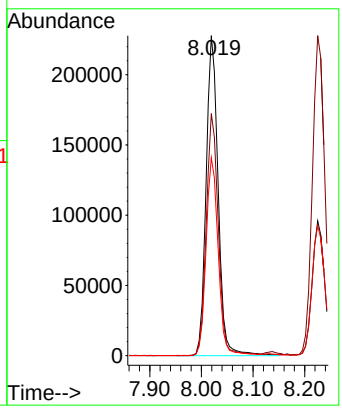


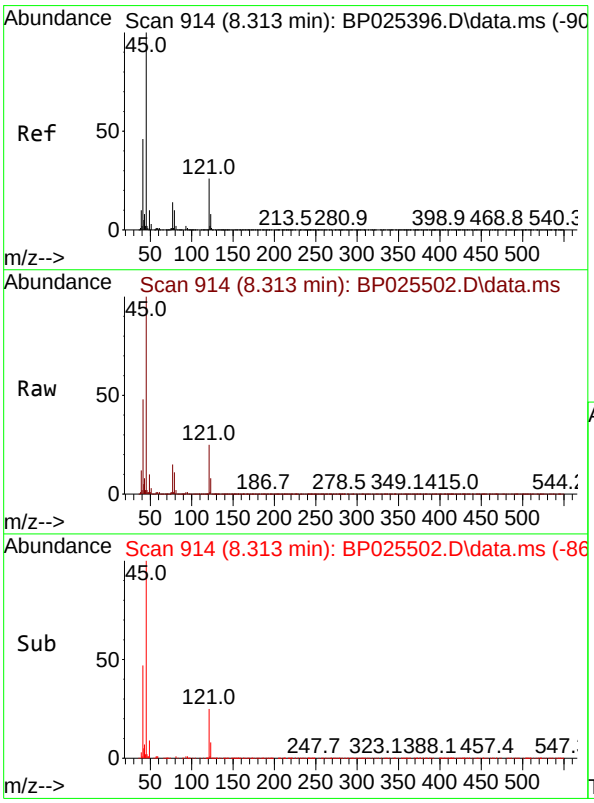
#15
Benzyl Alcohol
Concen: 40.652 ng
RT: 8.019 min Scan# 8
Delta R.T. -0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 79 Resp: 368154

Ion	Ratio	Lower	Upper
79	100		
108	75.7	63.8	95.6
77	61.9	49.0	73.4

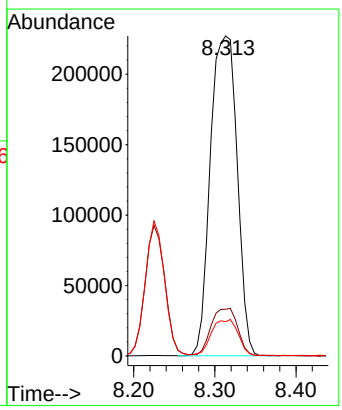


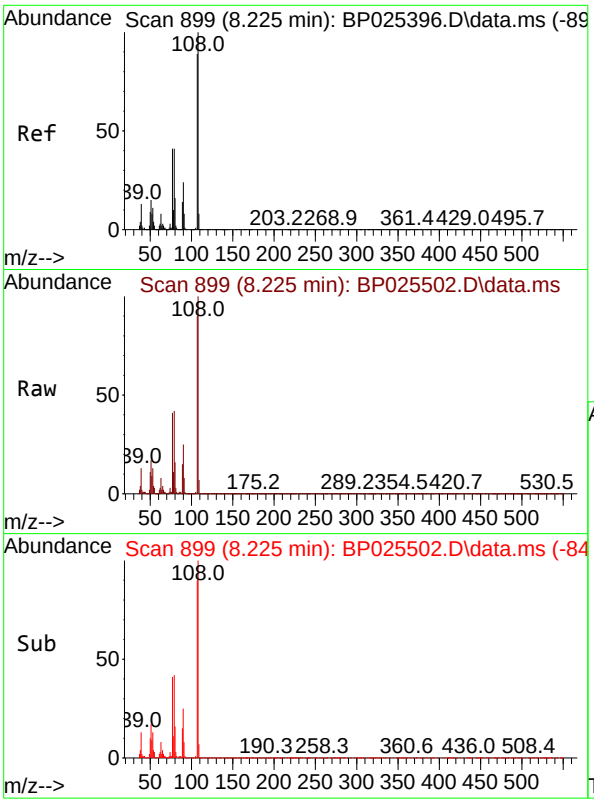


#16
2,2'-oxybis(1-Chloropropane)
Concen: 41.700 ng
RT: 8.313 min Scan# 914
Delta R.T. -0.000 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion: 45 Resp: 520729

Ion	Ratio	Lower	Upper
45	100		
77	14.6	0.0	35.3
79	10.7	0.0	31.8



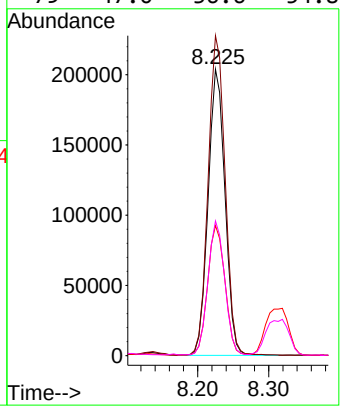


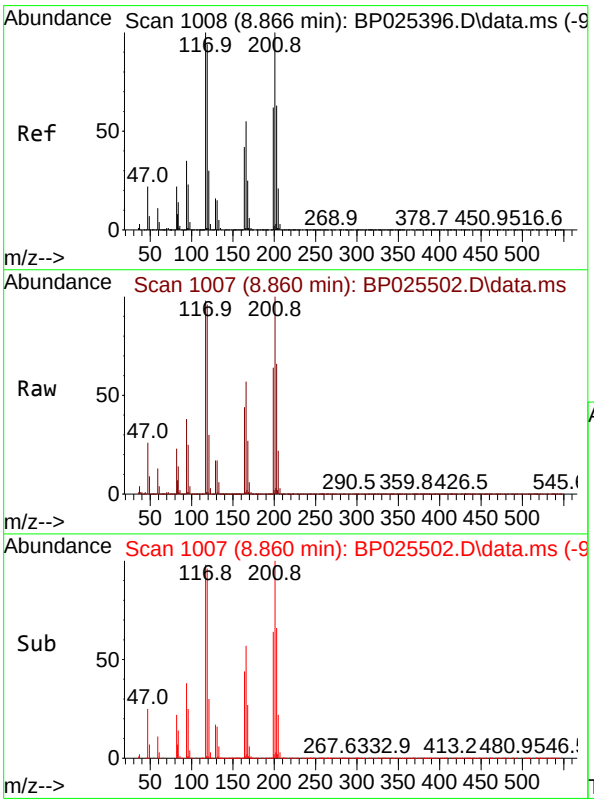
#17
2-Methylphenol
Concen: 40.522 ng
RT: 8.225 min Scan# 8
Delta R.T. -0.000 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:107 Resp: 336589

Ion	Ratio	Lower	Upper
107	100		
108	111.7	89.4	134.0
77	45.4	36.3	54.5
79	47.0	36.6	54.8

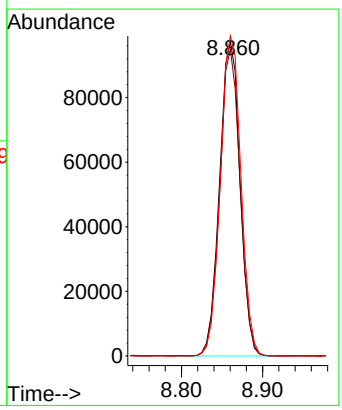


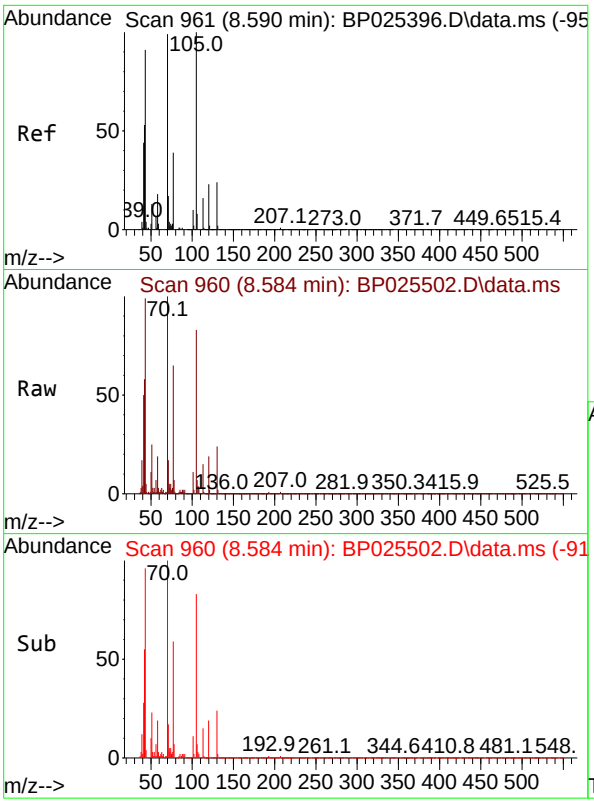


#18
Hexachloroethane
Concen: 41.003 ng
RT: 8.860 min Scan# 1007
Delta R.T. -0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:117 Resp: 170458

Ion	Ratio	Lower	Upper
117	100		
119	97.7	75.1	112.7
201	101.9	80.1	120.1



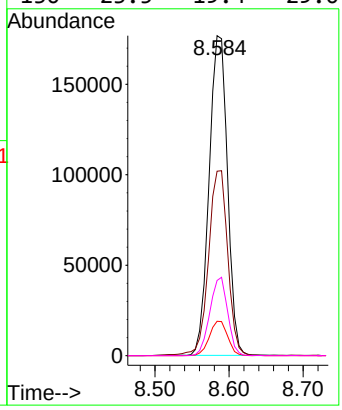


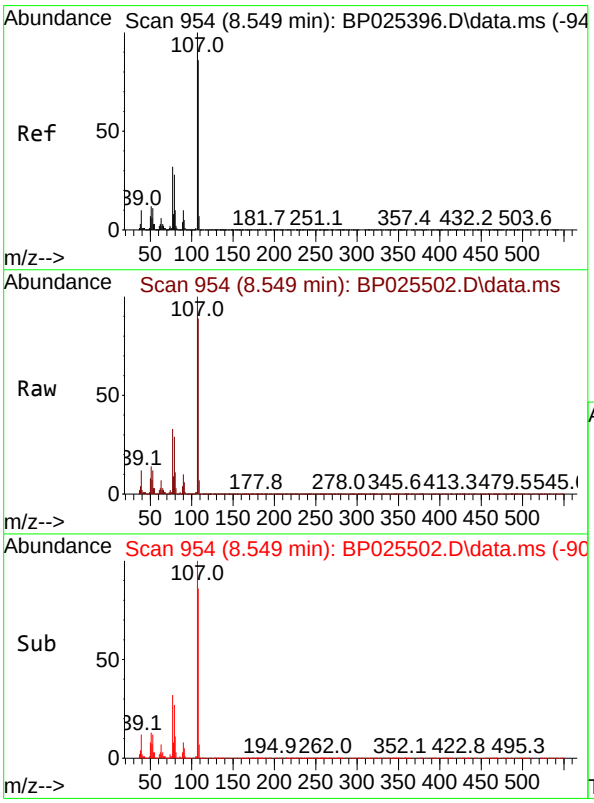
#19
n-Nitroso-di-n-propylamine
Concen: 40.216 ng
RT: 8.584 min Scan# 9
Delta R.T. -0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 70 Resp: 303621

Ion	Ratio	Lower	Upper
70	100		
42	57.6	43.8	65.6
101	10.7	8.5	12.7
130	23.5	19.4	29.0

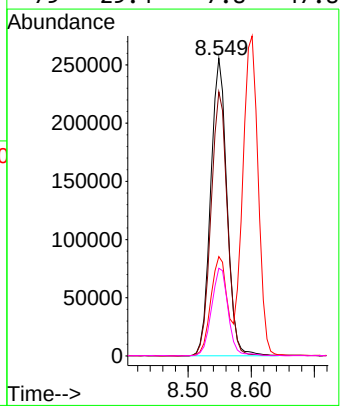


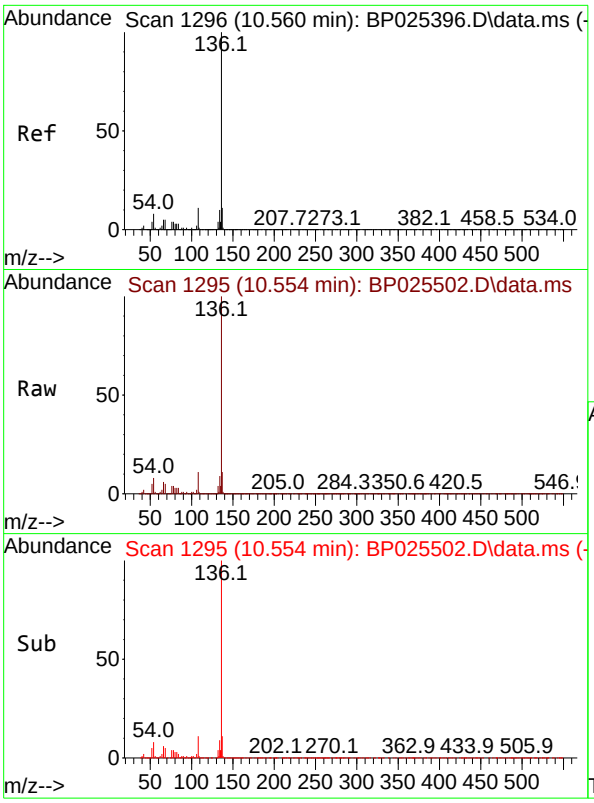


#20
3+4-Methylphenols
Concen: 39.780 ng
RT: 8.549 min Scan# 954
Delta R.T. -0.000 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:107 Resp: 458019

Ion	Ratio	Lower	Upper
107	100		
108	88.7	66.3	106.3
77	33.3	12.3	52.3
79	29.4	7.8	47.8



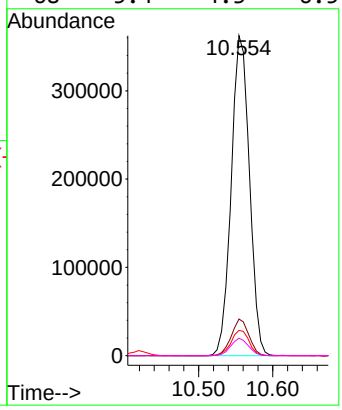


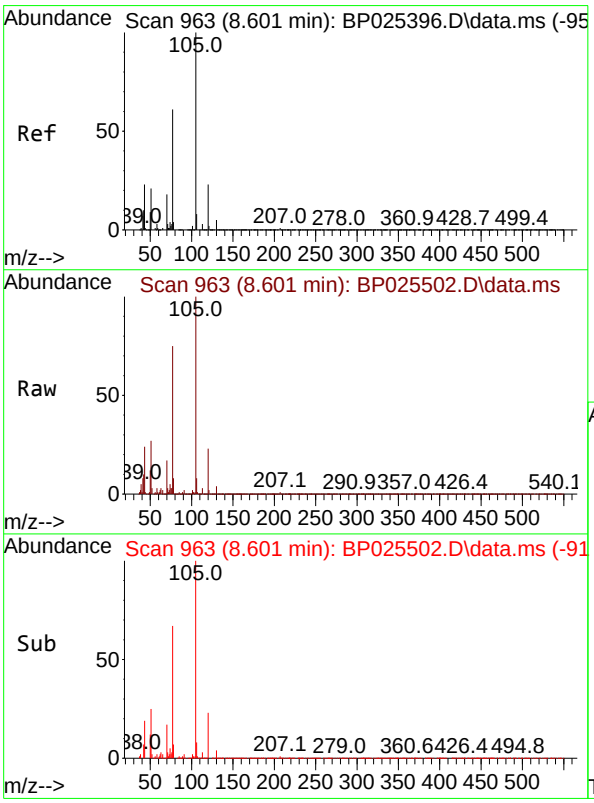
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.554 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:136 Resp: 617928

Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.2	13.8
54	7.9	6.0	9.0
68	5.4	4.3	6.5

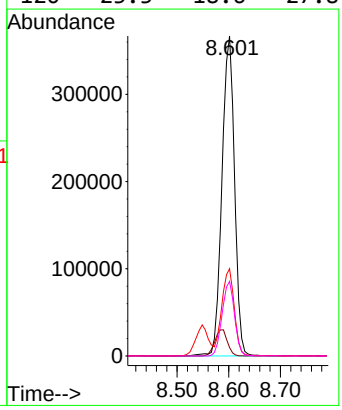


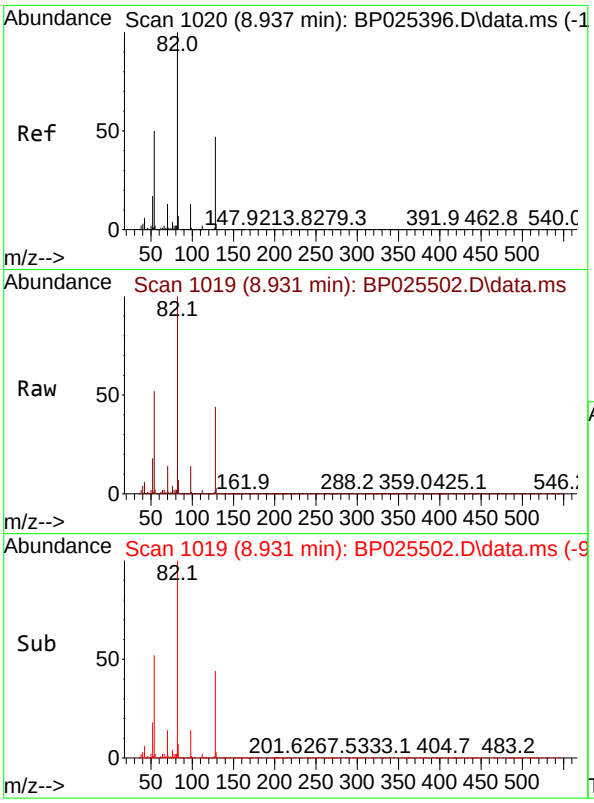


#22
Acetophenone
Concen: 39.991 ng
RT: 8.601 min Scan# 963
Delta R.T. -0.000 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:105 Resp: 619709

Ion	Ratio	Lower	Upper
105	100		
71	2.7	2.6	4.0
51	27.2	20.6	30.8
120	23.3	18.6	27.8



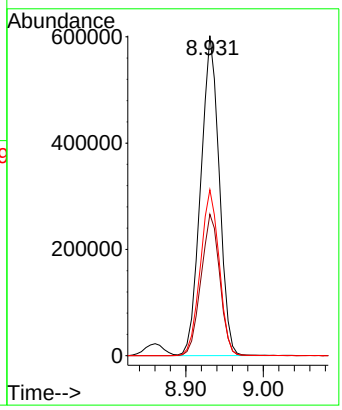


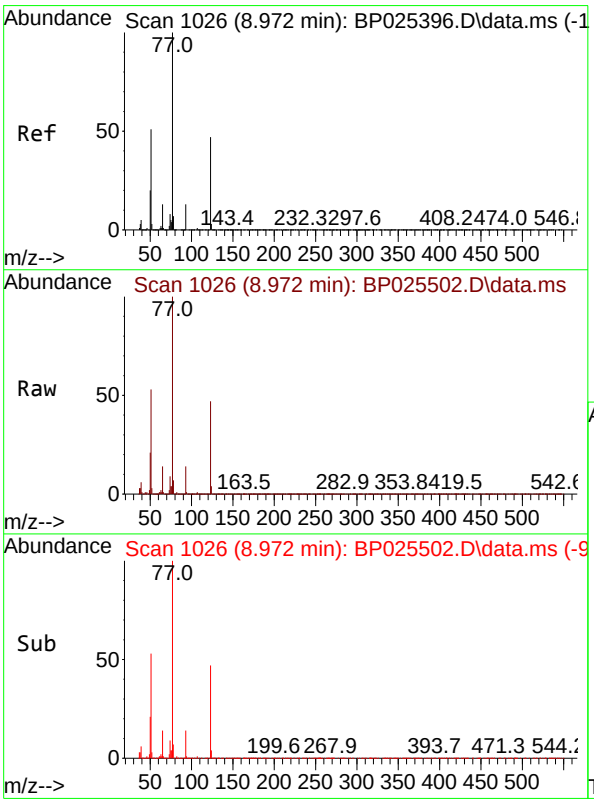
#23
Nitrobenzene-d5
Concen: 81.592 ng
RT: 8.931 min Scan# 1(
Delta R.T. -0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 82 Resp: 996684

Ion	Ratio	Lower	Upper
82	100		
128	44.2	37.7	56.5
54	51.9	39.8	59.6

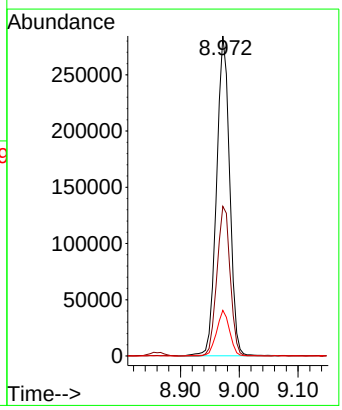


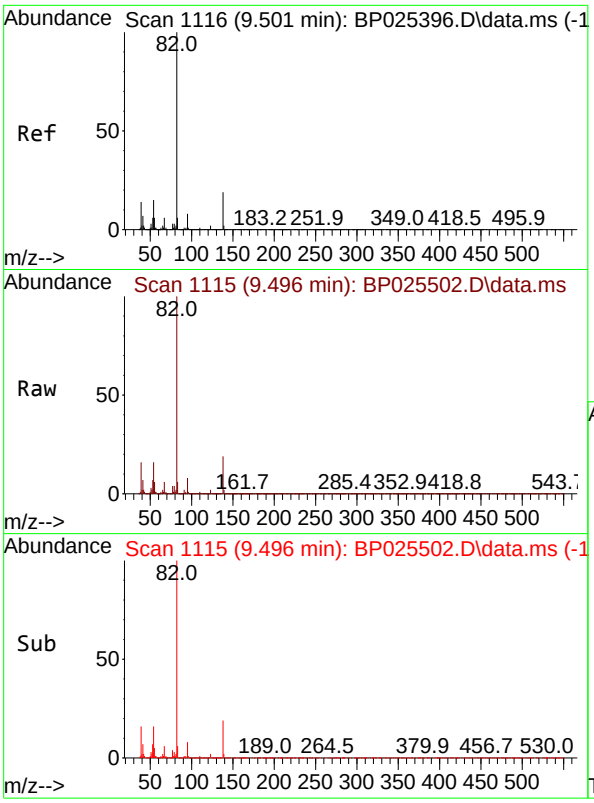


#24
Nitrobenzene
Concen: 40.309 ng
RT: 8.972 min Scan# 1026
Delta R.T. -0.000 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion: 77 Resp: 440063

Ion	Ratio	Lower	Upper
77	100		
123	46.8	38.6	58.0
65	14.2	10.6	15.8



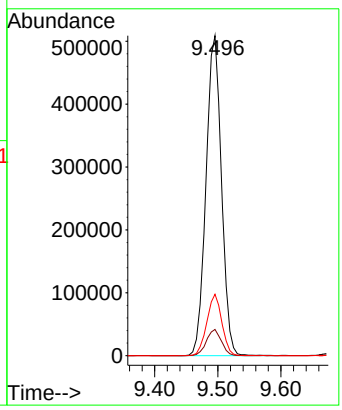


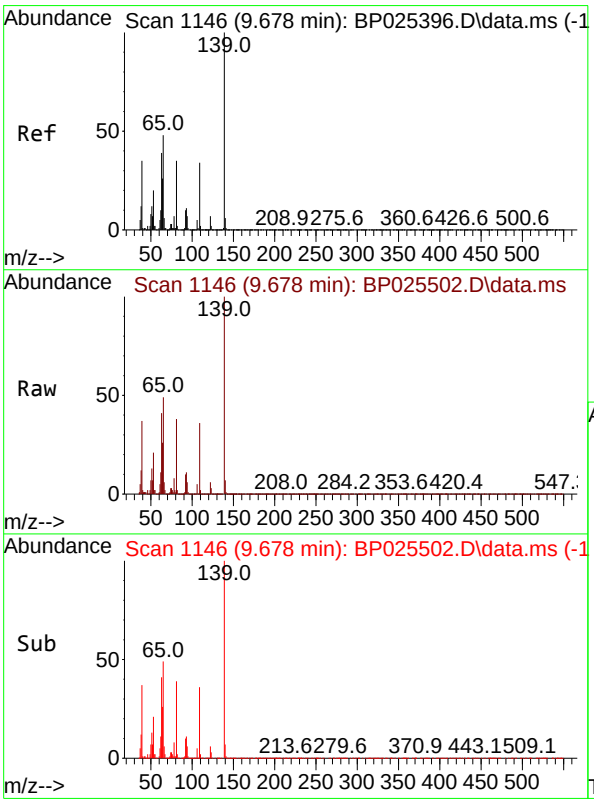
#25
Isophorone
Concen: 40.003 ng
RT: 9.496 min Scan# 11
Delta R.T. -0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 82 Resp: 864797

Ion	Ratio	Lower	Upper
82	100		
95	8.2	6.4	9.6
138	19.2	15.4	23.0

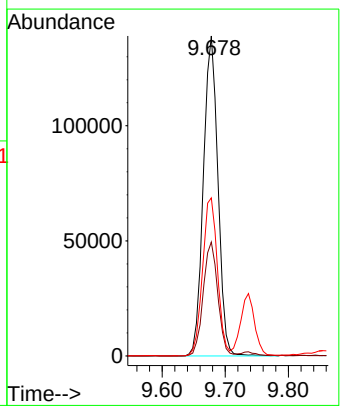


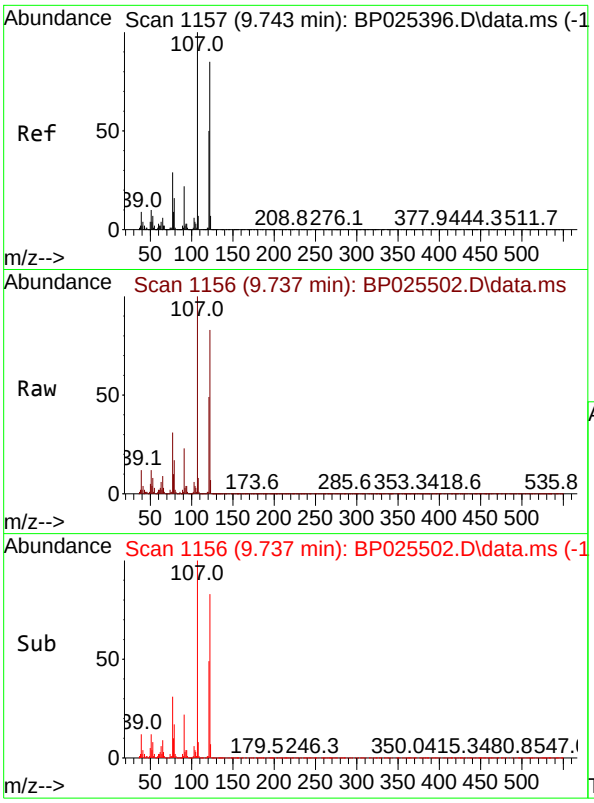


#26
2-Nitrophenol
Concen: 39.808 ng
RT: 9.678 min Scan# 1146
Delta R.T. -0.000 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:139 Resp: 223032

Ion	Ratio	Lower	Upper
139	100		
109	35.6	26.9	40.3
65	49.4	38.3	57.5



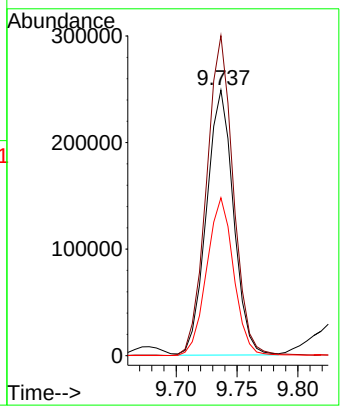


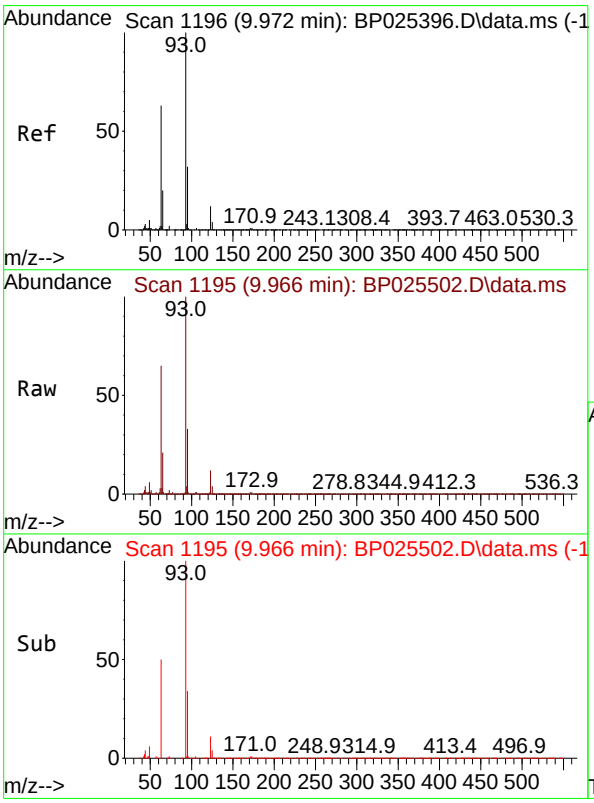
#27
2,4-Dimethylphenol
Concen: 39.968 ng
RT: 9.737 min Scan# 11
Delta R.T. -0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:122 Resp: 385100

Ion	Ratio	Lower	Upper
122	100		
107	120.5	93.7	140.5
121	59.5	46.6	69.8

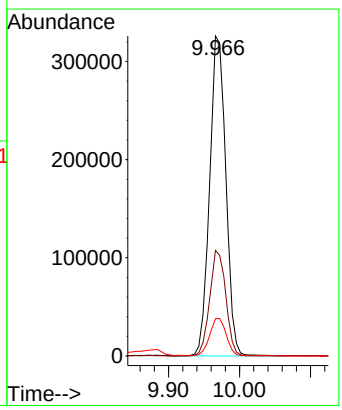


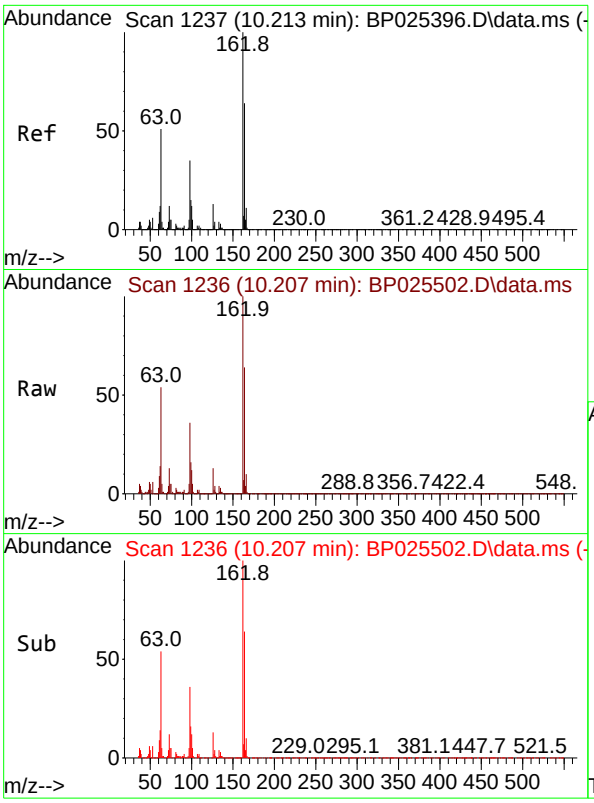


#28
bis(2-Chloroethoxy)methane
Concen: 39.468 ng
RT: 9.966 min Scan# 1195
Delta R.T. -0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion: 93 Resp: 515756

Ion	Ratio	Lower	Upper
93	100		
95	33.0	25.4	38.0
123	11.7	9.4	14.0



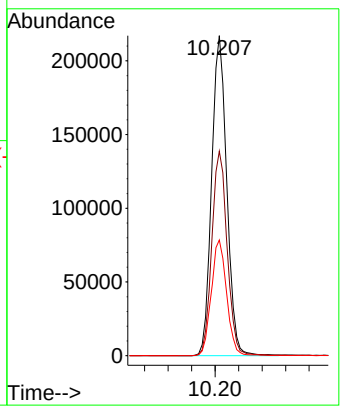


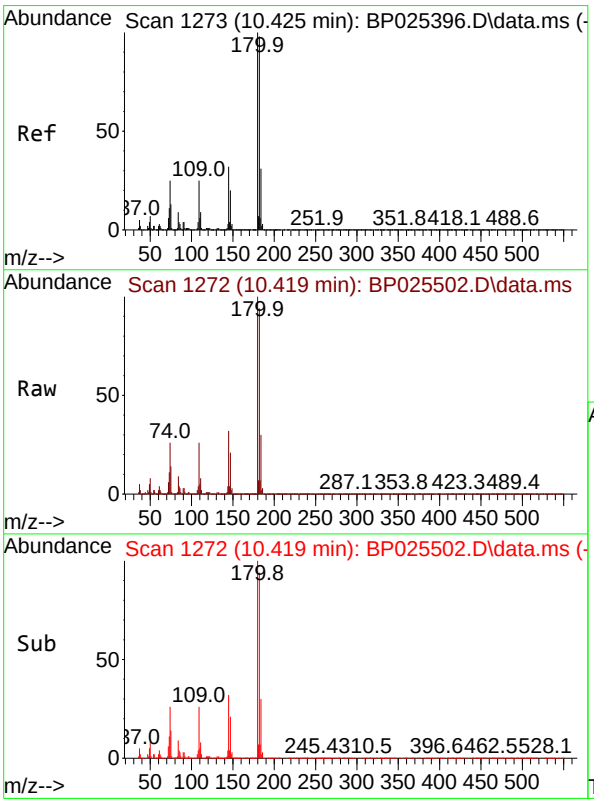
#29
2,4-Dichlorophenol
Concen: 40.533 ng
RT: 10.207 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:162 Resp: 387958

Ion	Ratio	Lower	Upper
162	100		
164	63.9	44.4	84.4
98	36.2	14.9	54.9

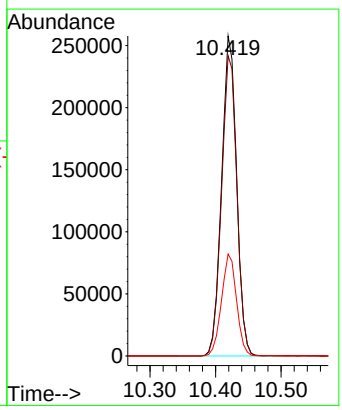


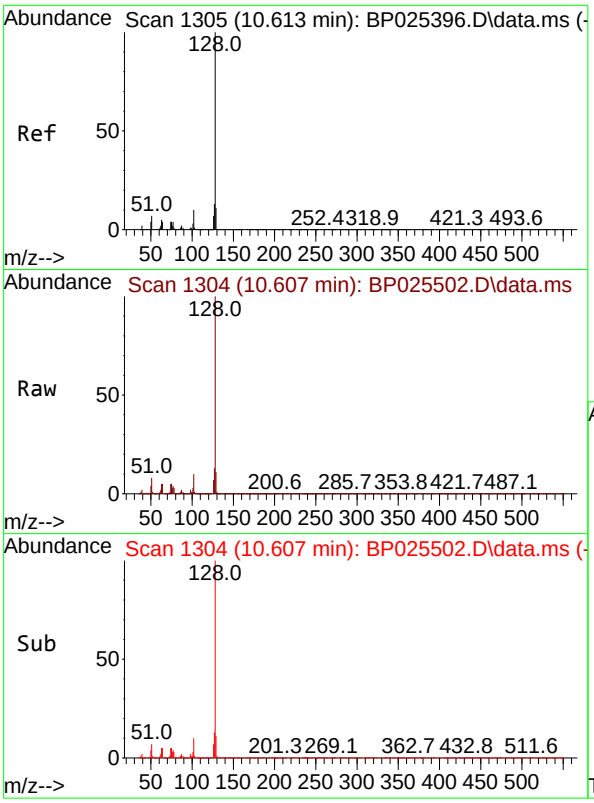


#30
1,2,4-Trichlorobenzene
Concen: 38.887 ng
RT: 10.419 min Scan# 1272
Delta R.T. -0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:180 Resp: 408012

Ion	Ratio	Lower	Upper
180	100		
182	93.8	78.0	117.0
145	31.8	25.9	38.9



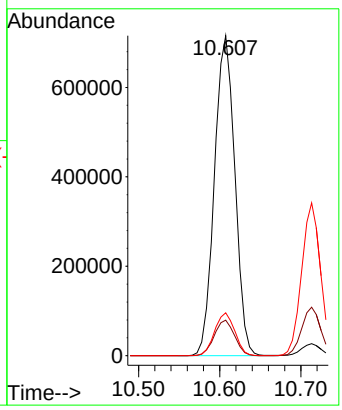


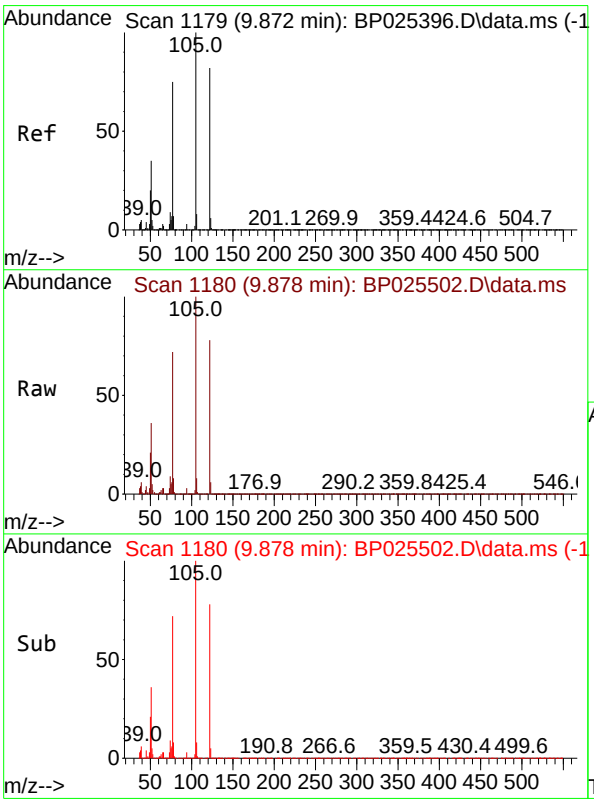
#31
Naphthalene
Concen: 38.998 ng
RT: 10.607 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:128 Resp: 1252509

Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.6	13.0
127	13.4	10.7	16.1

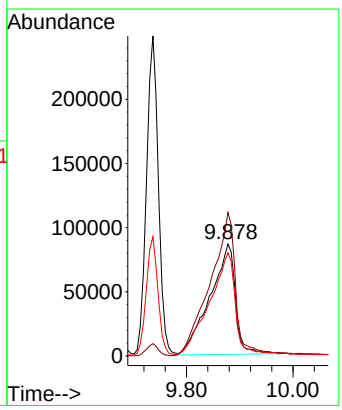


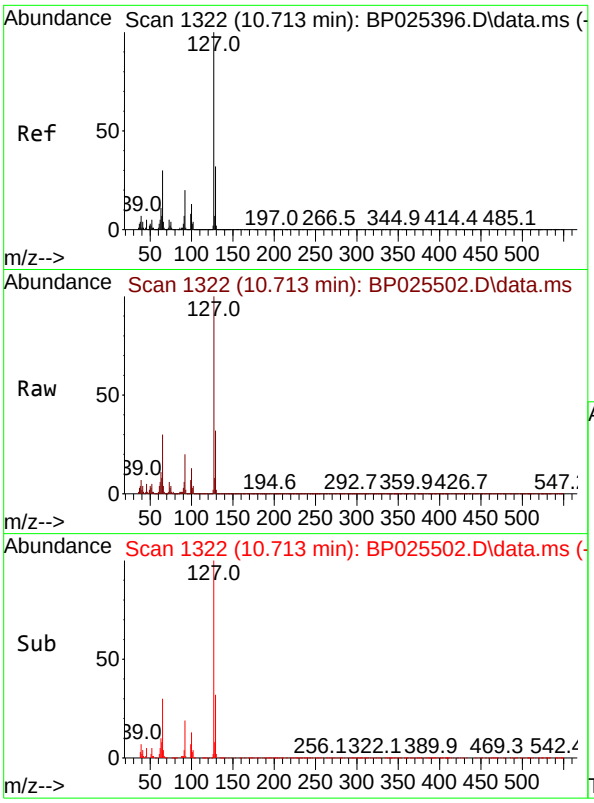


#32
Benzoic acid
Concen: 39.948 ng
RT: 9.878 min Scan# 1180
Delta R.T. 0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:122 Resp: 284166

Ion	Ratio	Lower	Upper
122	100		
105	128.1	100.6	140.6
77	92.2	71.5	111.5



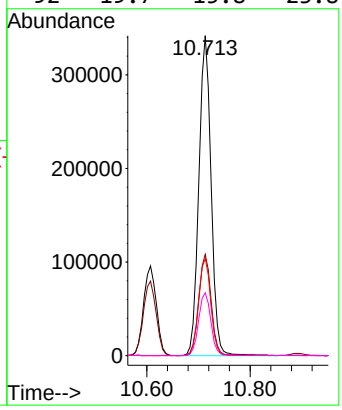


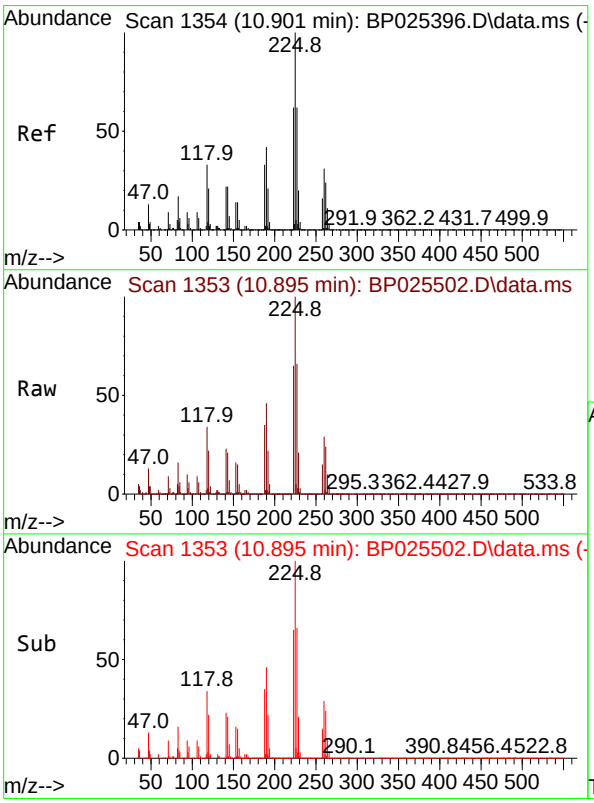
#33
4-Chloroaniline
Concen: 39.605 ng
RT: 10.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:127 Resp: 561871

Ion	Ratio	Lower	Upper
127	100		
129	31.7	25.4	38.2
65	30.3	23.8	35.6
92	19.7	15.8	23.8

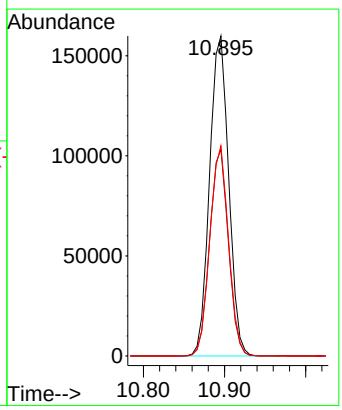


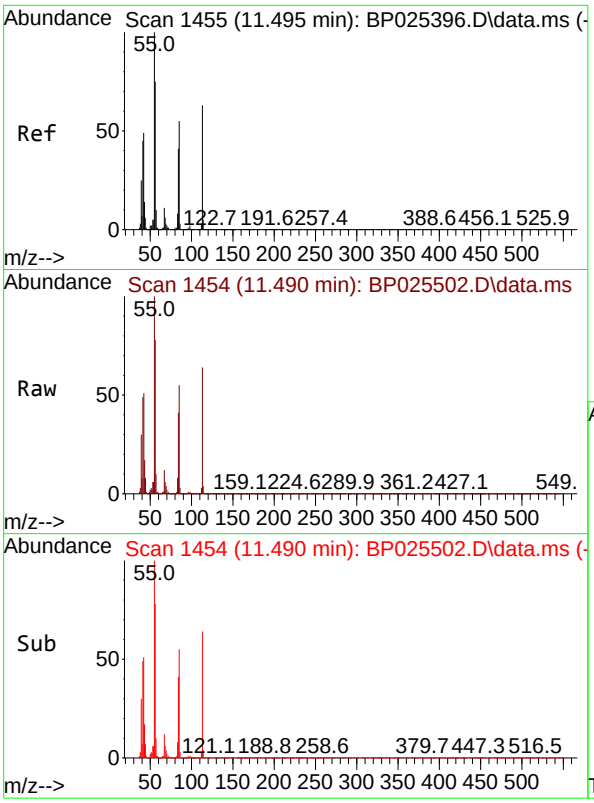


#34
Hexachlorobutadiene
Concen: 39.951 ng
RT: 10.895 min Scan# 1353
Delta R.T. -0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:225 Resp: 261058

Ion	Ratio	Lower	Upper
225	100		
223	64.6	50.0	75.0
227	65.7	49.7	74.5



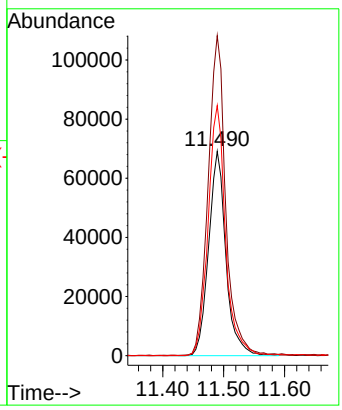


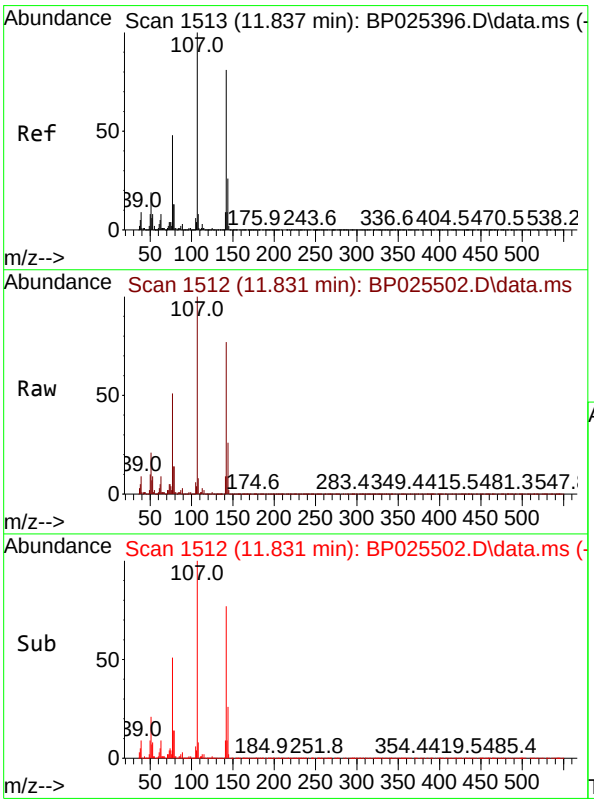
#35
Caprolactam
Concen: 38.776 ng
RT: 11.490 min Scan# 14
Delta R.T. -0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:113 Resp: 136092

Ion	Ratio	Lower	Upper
113	100		
55	156.6	140.0	180.0
56	122.4	100.0	140.0

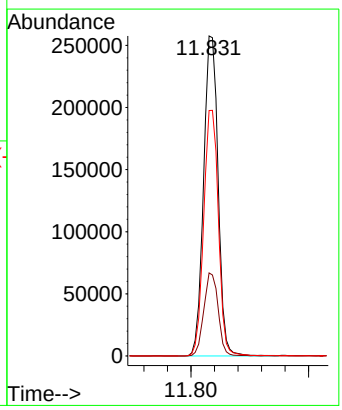


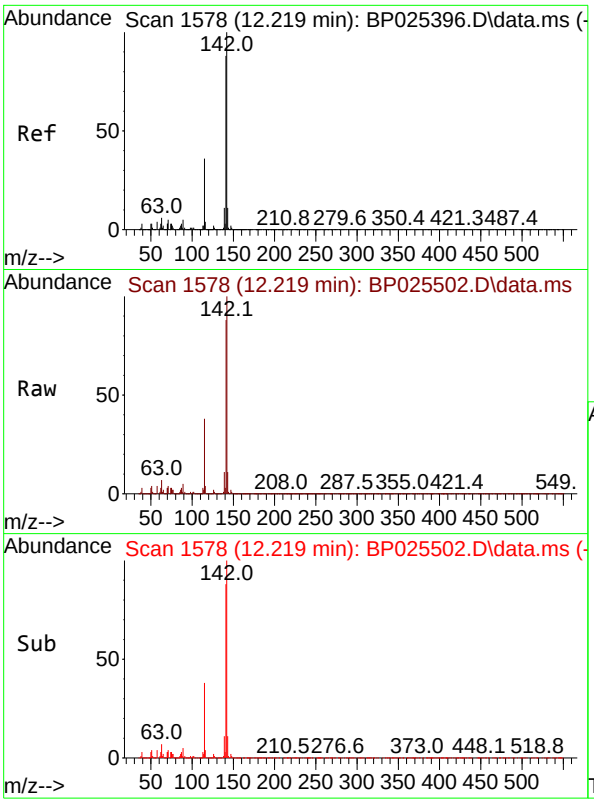


#36
4-Chloro-3-methylphenol
Concen: 40.195 ng
RT: 11.831 min Scan# 1512
Delta R.T. -0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:107 Resp: 441463

Ion	Ratio	Lower	Upper
107	100		
144	26.0	21.0	31.4
142	76.7	64.6	97.0



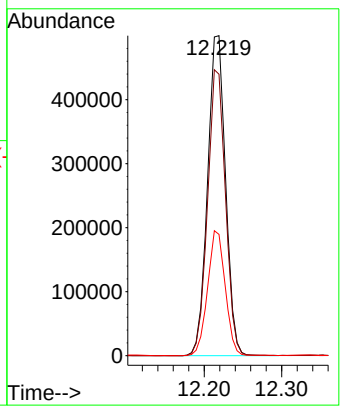


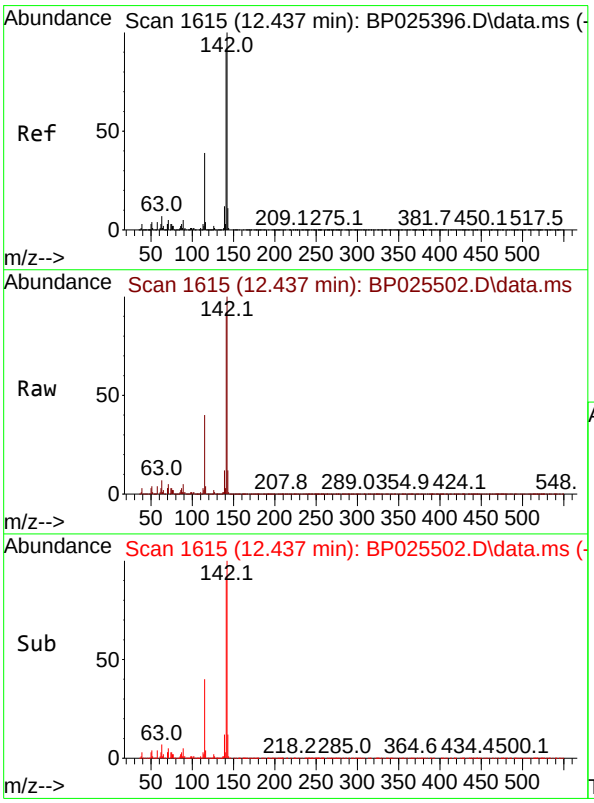
#37
2-Methylnaphthalene
Concen: 38.714 ng
RT: 12.219 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:142 Resp: 809155

Ion	Ratio	Lower	Upper
142	100		
141	88.0	70.3	105.5
115	37.9	28.9	43.3

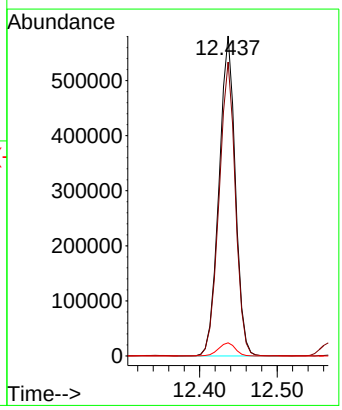


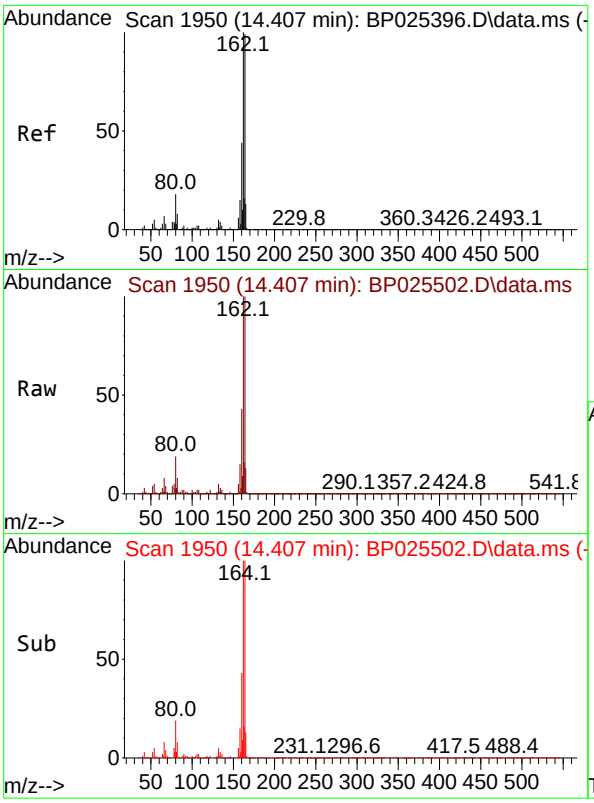


#38
1-Methylnaphthalene
Concen: 38.296 ng
RT: 12.437 min Scan# 1615
Delta R.T. -0.000 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:142 Resp: 851212

Ion	Ratio	Lower	Upper
142	100		
141	91.8	73.1	109.7
116	4.1	3.2	4.8



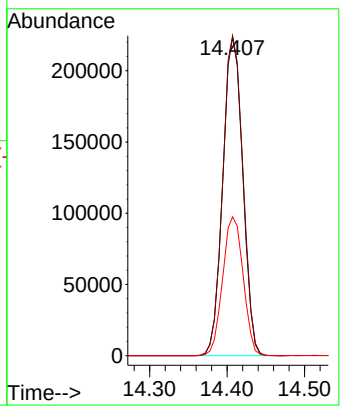


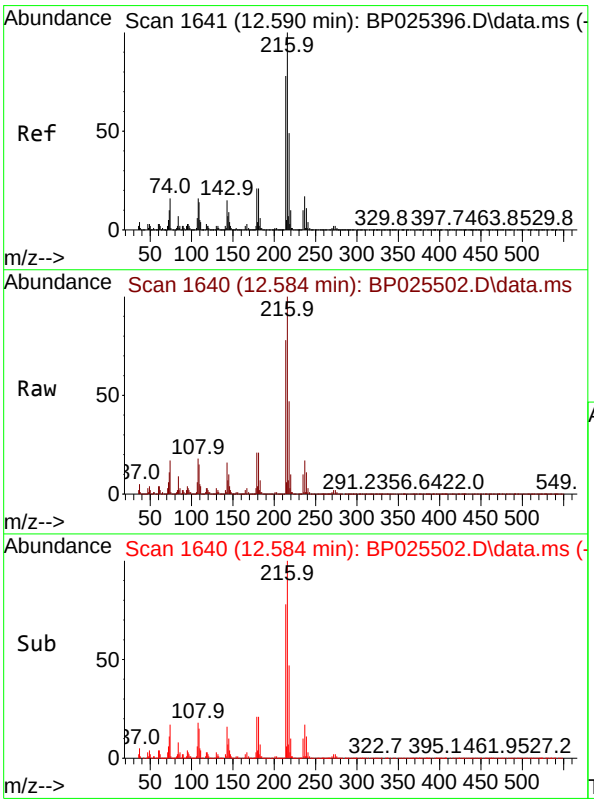
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.407 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:164 Resp: 400331

Ion	Ratio	Lower	Upper
164	100		
162	100.4	81.0	121.6
160	43.6	35.4	53.2

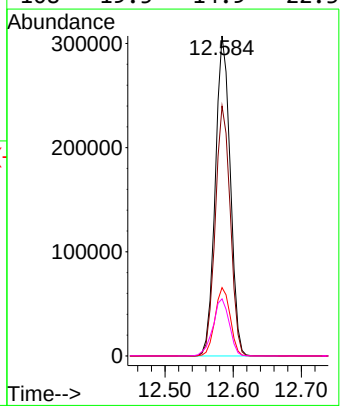


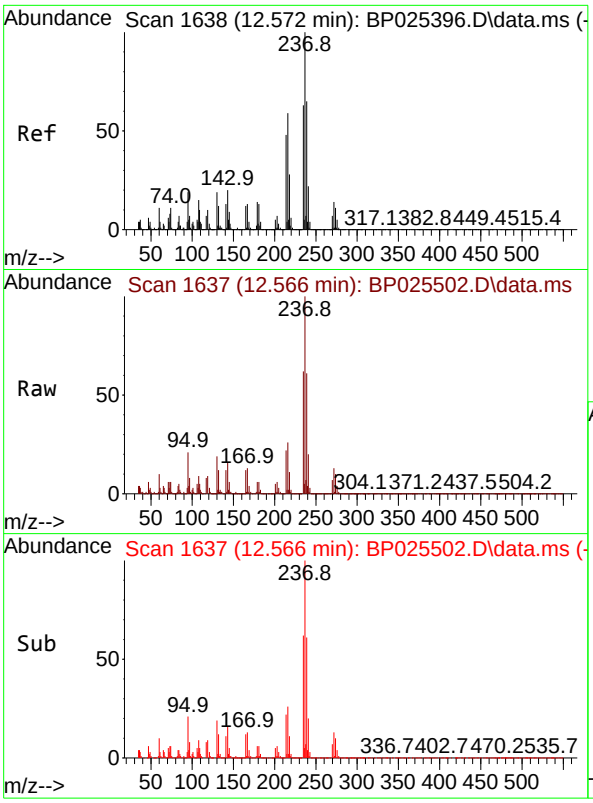


#40
1,2,4,5-Tetrachlorobenzene
Concen: 40.579 ng
RT: 12.584 min Scan# 1640
Delta R.T. -0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:216 Resp: 469176

Ion	Ratio	Lower	Upper
216	100		
214	78.4	63.0	94.4
179	21.7	17.1	25.7
108	19.5	14.9	22.3



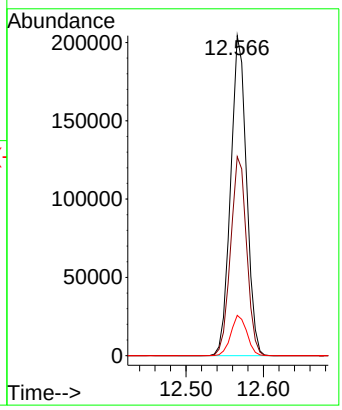


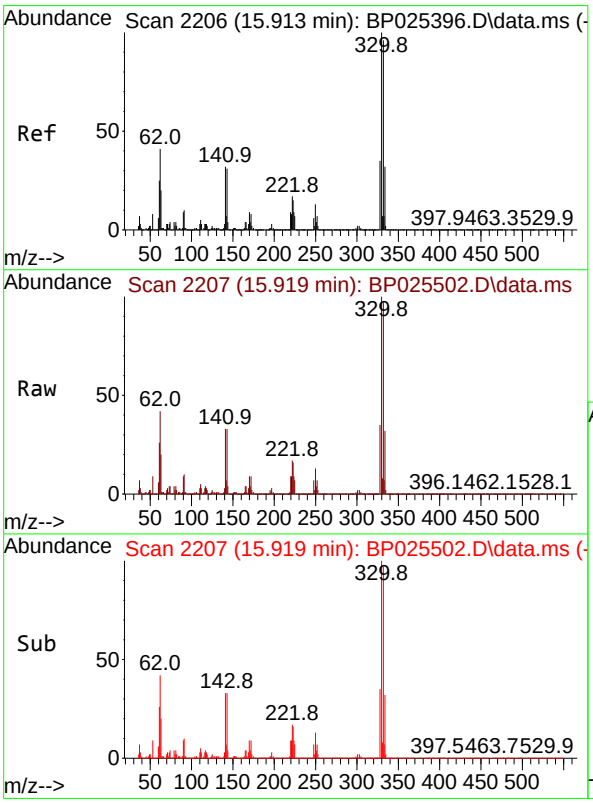
#41
Hexachlorocyclopentadiene
Concen: 41.746 ng
RT: 12.566 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:237 Resp: 291550

Ion	Ratio	Lower	Upper
237	100		
235	62.2	42.7	82.7
272	12.6	0.0	34.0

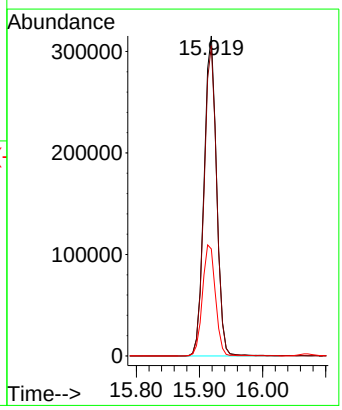


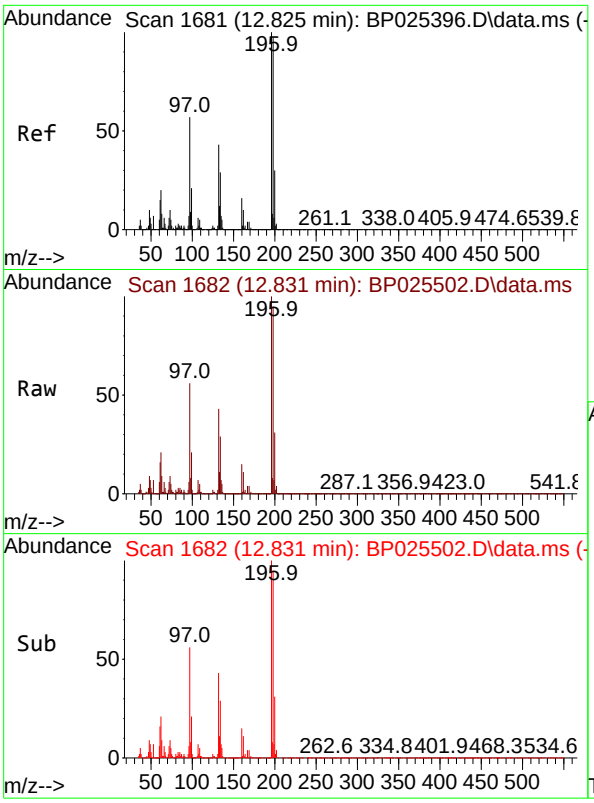


#42
2,4,6-Tribromophenol
Concen: 80.580 ng
RT: 15.919 min Scan# 2207
Delta R.T. 0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:330 Resp: 434204

Ion	Ratio	Lower	Upper
330	100		
332	97.2	77.3	115.9
141	36.0	26.6	39.8



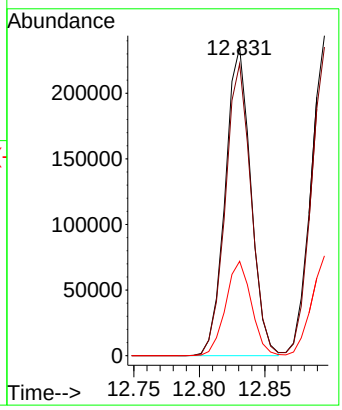


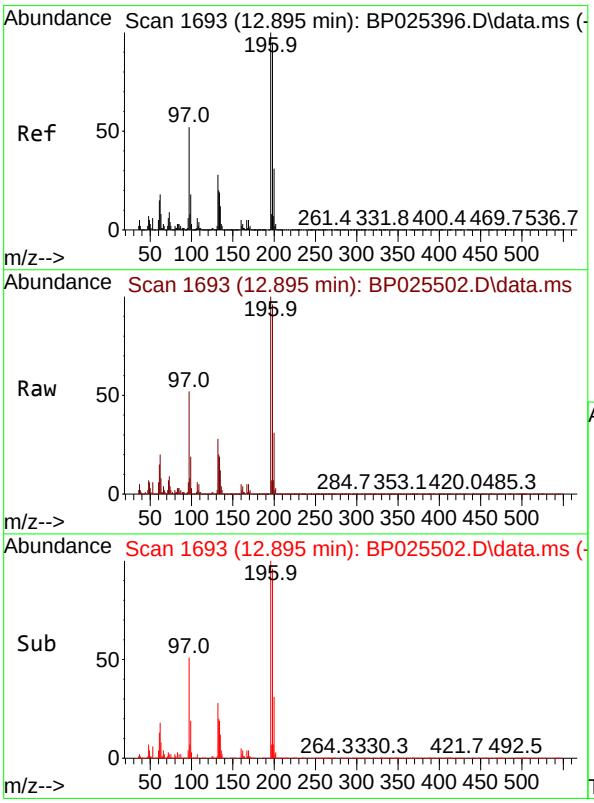
#43
2,4,6-Trichlorophenol
Concen: 40.907 ng
RT: 12.831 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:196 Resp: 319303

Ion	Ratio	Lower	Upper
196	100		
198	94.6	77.2	115.8
200	30.6	23.9	35.9

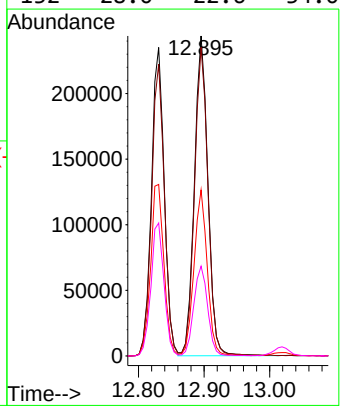


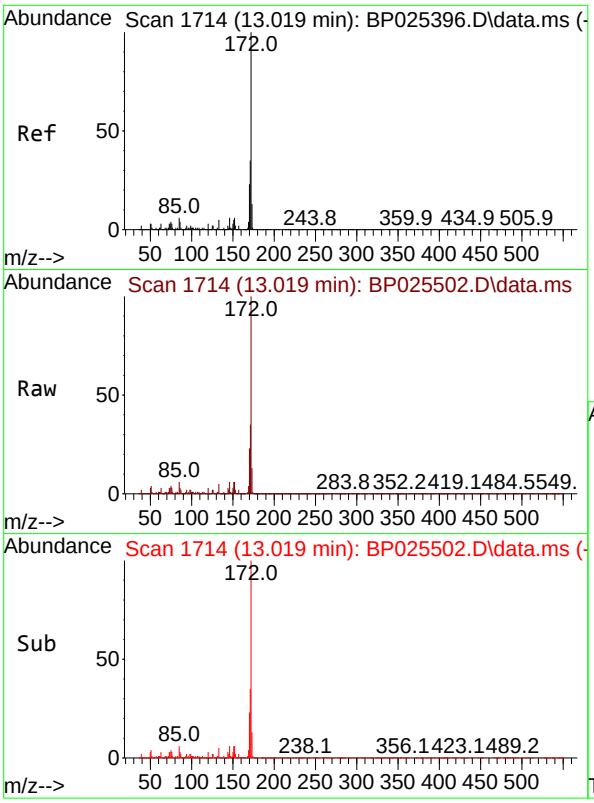


#44
2,4,5-Trichlorophenol
Concen: 41.026 ng
RT: 12.895 min Scan# 1693
Delta R.T. -0.000 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:196 Resp: 350964

Ion	Ratio	Lower	Upper
196	100		
198	96.4	76.2	114.2
97	51.9	41.2	61.8
132	28.0	22.6	34.0



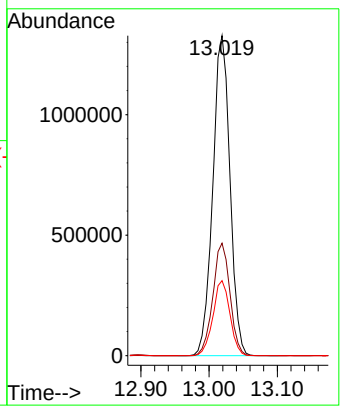


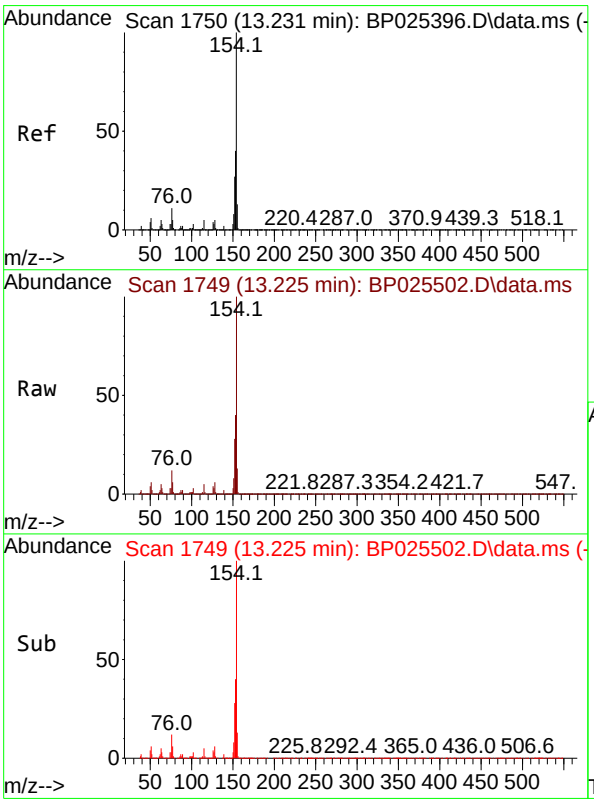
#45
2-Fluorobiphenyl
Concen: 79.531 ng
RT: 13.019 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:172 Resp: 2329621

Ion	Ratio	Lower	Upper
172	100		
171	35.1	28.1	42.1
170	23.5	18.6	28.0

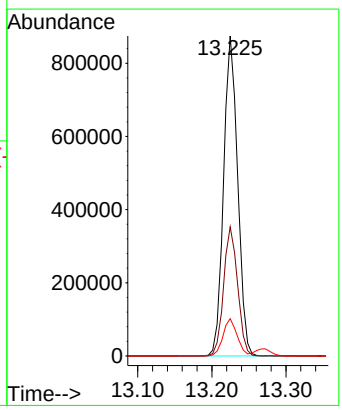


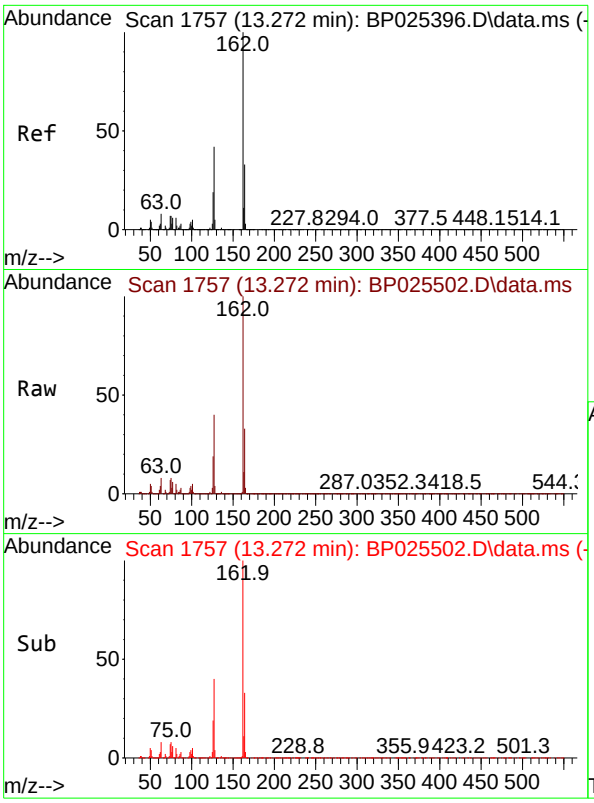


#46
1,1'-Biphenyl
Concen: 39.678 ng
RT: 13.225 min Scan# 1749
Delta R.T. -0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:154 Resp: 1153599

Ion	Ratio	Lower	Upper
154	100		
153	40.3	19.5	59.5
76	11.7	0.0	31.1



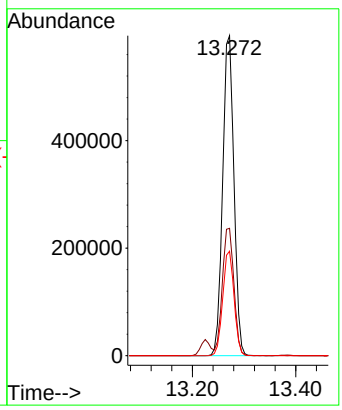


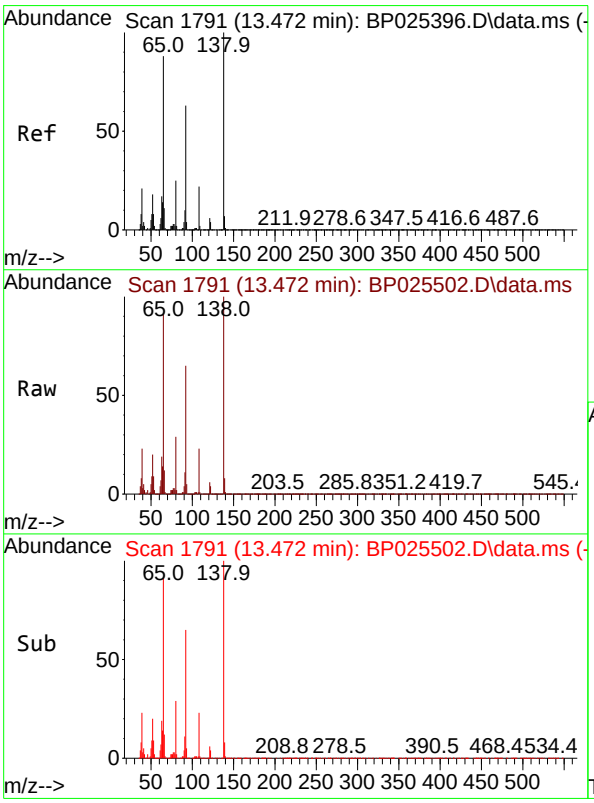
#47
2-Chloronaphthalene
Concen: 39.783 ng
RT: 13.272 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:162 Resp: 900445

Ion	Ratio	Lower	Upper
162	100		
127	39.8	33.4	50.2
164	32.7	26.2	39.2

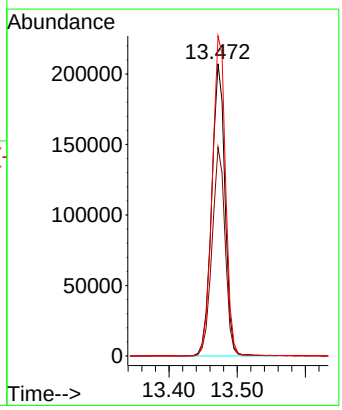


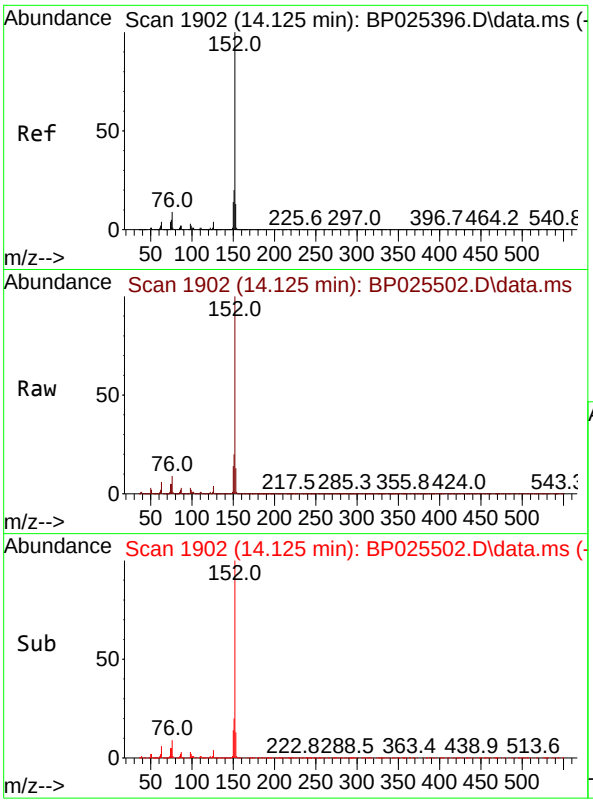


#48
2-Nitroaniline
Concen: 42.727 ng
RT: 13.472 min Scan# 1791
Delta R.T. -0.000 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion: 65 Resp: 281785

Ion	Ratio	Lower	Upper
65	100		
92	71.4	57.6	86.4
138	109.5	91.0	136.6



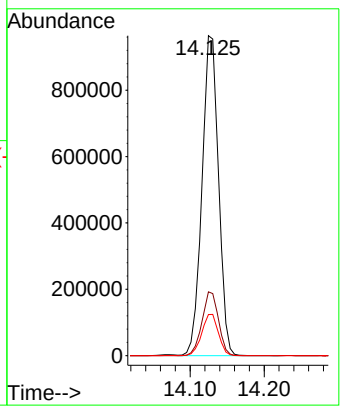


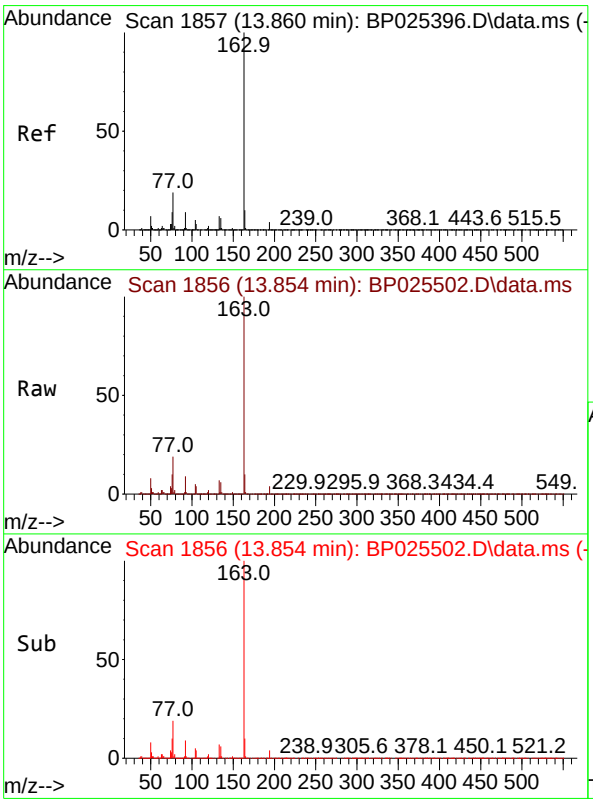
#49
Acenaphthylene
Concen: 39.860 ng
RT: 14.125 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:152 Resp: 1492877

Ion	Ratio	Lower	Upper
152	100		
151	19.9	16.0	24.0
153	12.8	10.6	15.8

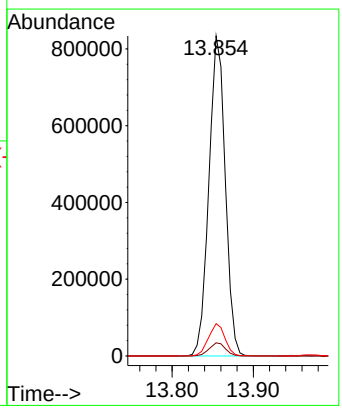


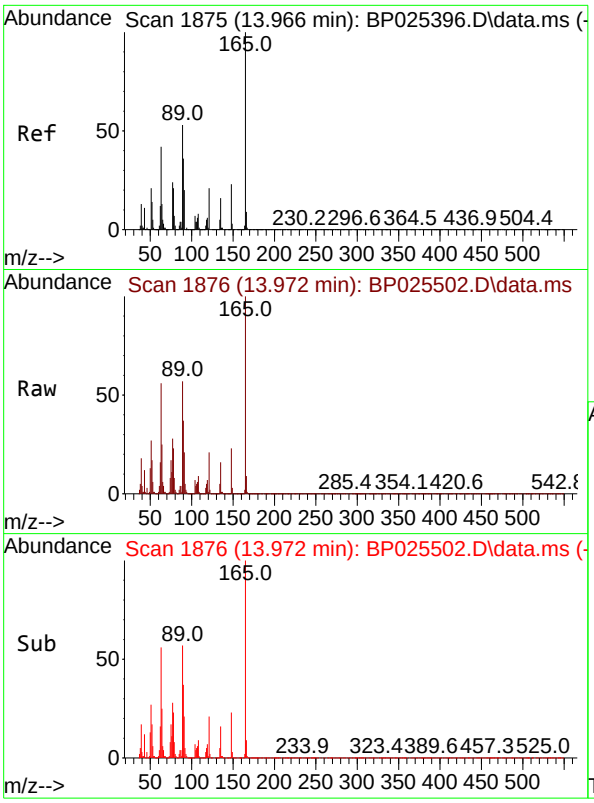


#50
Dimethylphthalate
Concen: 39.744 ng
RT: 13.854 min Scan# 1856
Delta R.T. -0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:163 Resp: 1165139

Ion	Ratio	Lower	Upper
163	100		
194	4.1	3.4	5.0
164	10.1	7.9	11.9



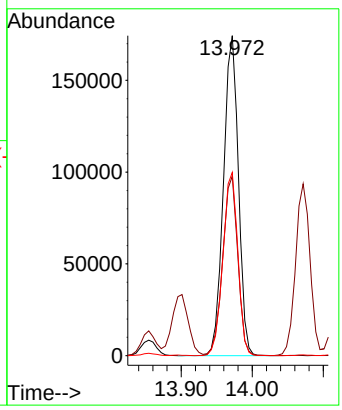


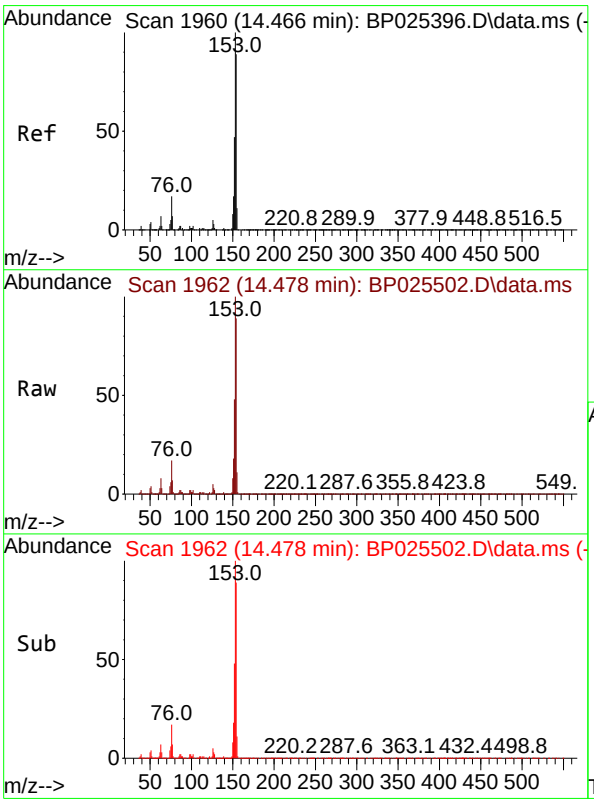
#51
2,6-Dinitrotoluene
Concen: 41.073 ng
RT: 13.972 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:165 Resp: 253787

Ion	Ratio	Lower	Upper
165	100		
63	56.1	40.9	61.3
89	57.3	42.1	63.1

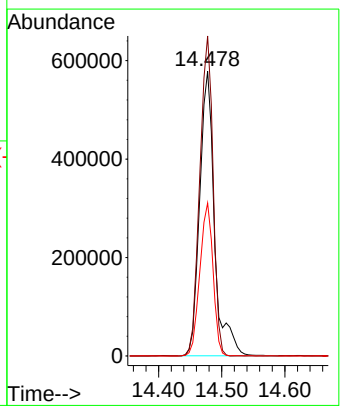


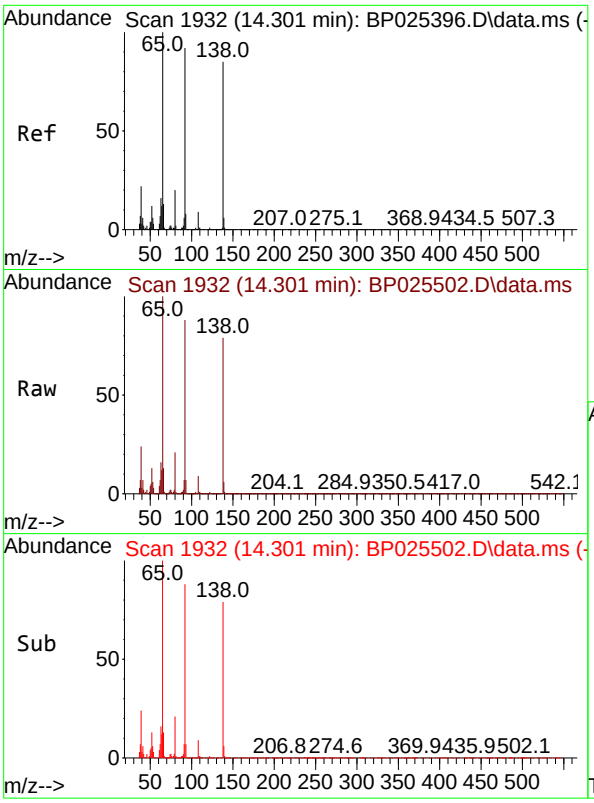


#52
Acenaphthene
Concen: 42.917 ng
RT: 14.478 min Scan# 1962
Delta R.T. 0.012 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:154 Resp: 943497

Ion	Ratio	Lower	Upper
154	100		
153	112.4	90.2	135.2
152	53.8	42.1	63.1



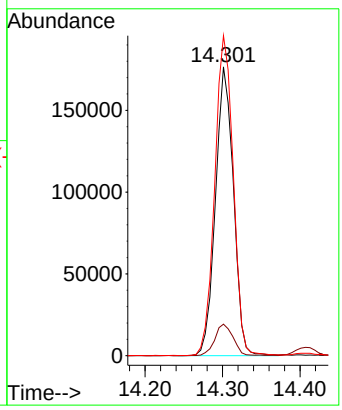


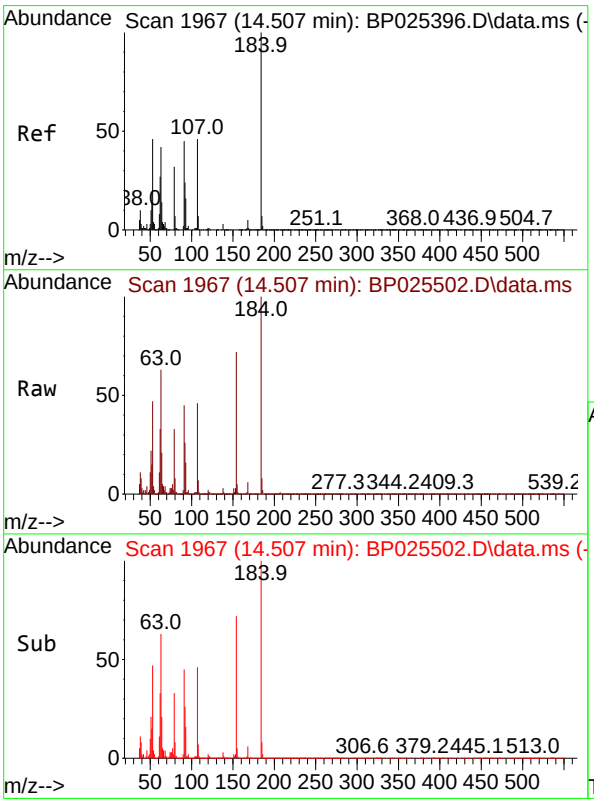
#53
3-Nitroaniline
Concen: 41.043 ng
RT: 14.301 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:138 Resp: 285327

Ion	Ratio	Lower	Upper
138	100		
108	10.9	8.3	12.5
92	110.8	86.2	129.2

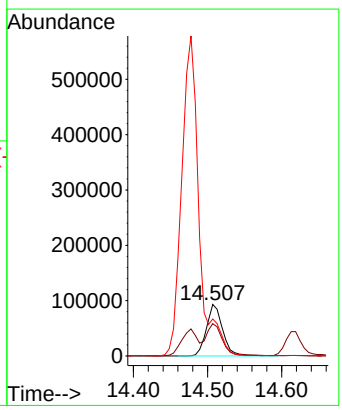


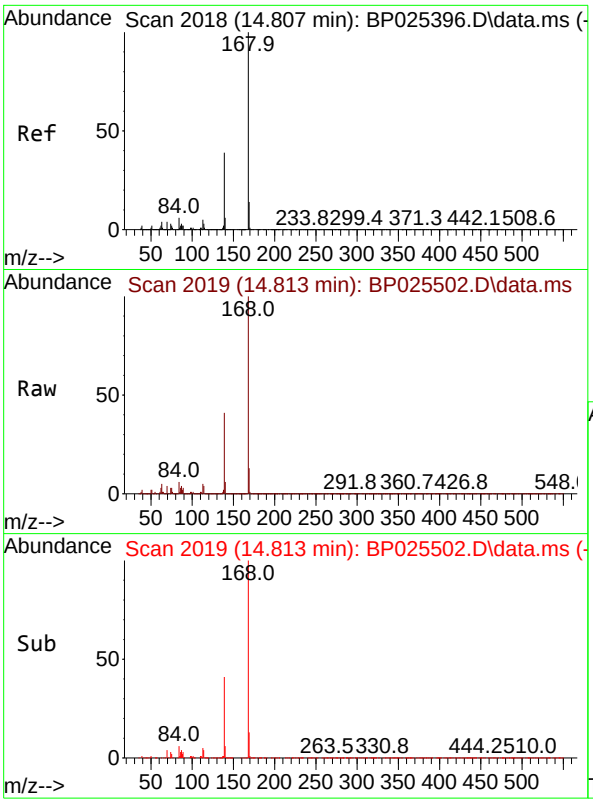


#54
2,4-Dinitrophenol
Concen: 43.128 ng
RT: 14.507 min Scan# 1967
Delta R.T. -0.000 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:184 Resp: 142309

Ion	Ratio	Lower	Upper
184	100		
63	62.8	49.4	74.2
154	71.8	54.6	82.0



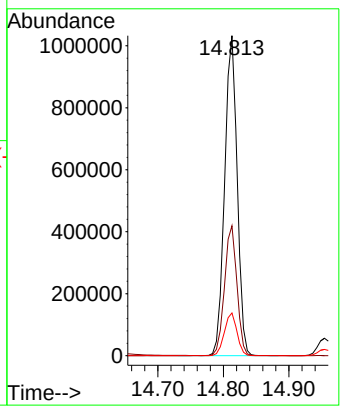


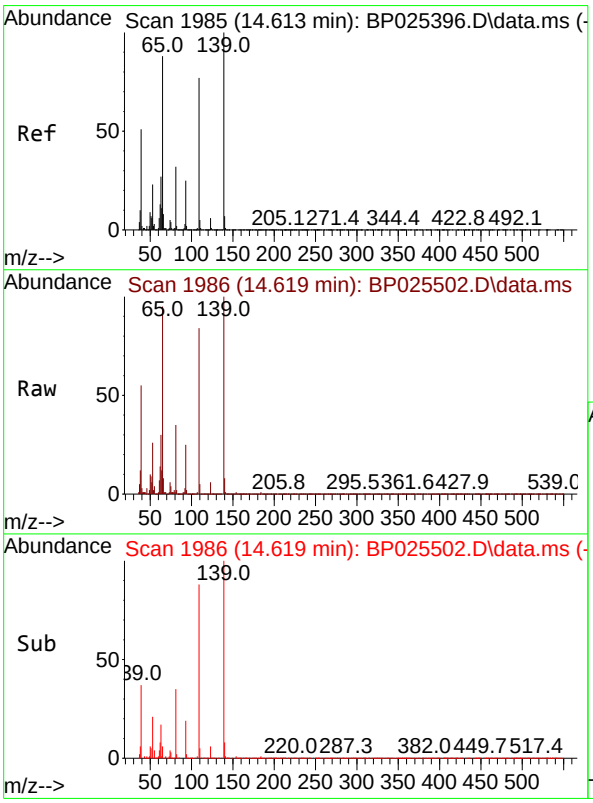
#55
Dibenzofuran
Concen: 39.226 ng
RT: 14.813 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:168 Resp: 1363388

Ion	Ratio	Lower	Upper
168	100		
139	40.6	31.5	47.3
169	13.3	10.9	16.3

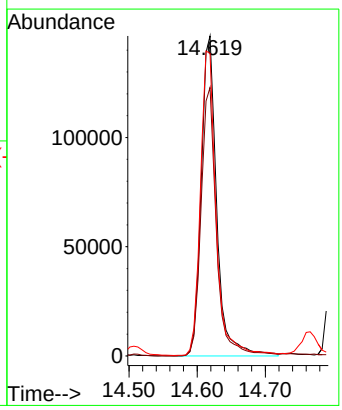


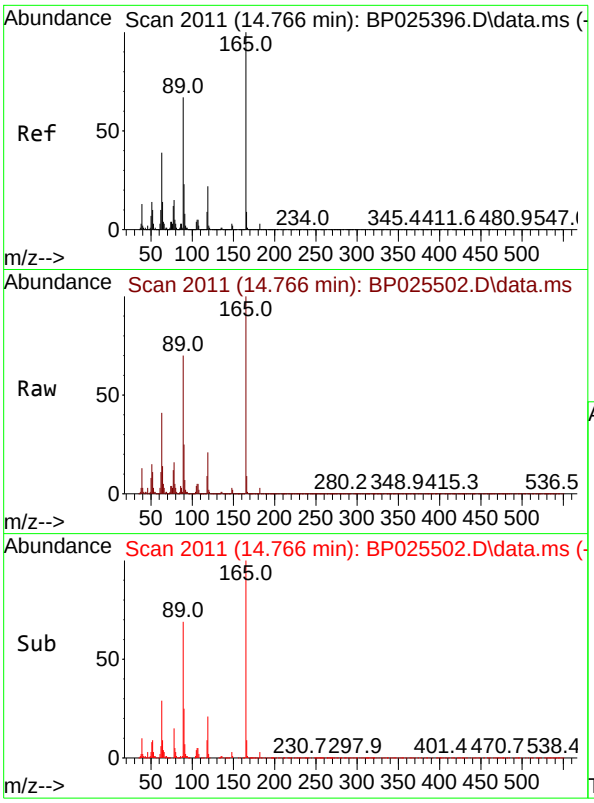


#56
4-Nitrophenol
Concen: 40.538 ng
RT: 14.619 min Scan# 1986
Delta R.T. 0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:139 Resp: 231578

Ion	Ratio	Lower	Upper
139	100		
109	83.9	56.6	96.6
65	94.5	68.2	108.2



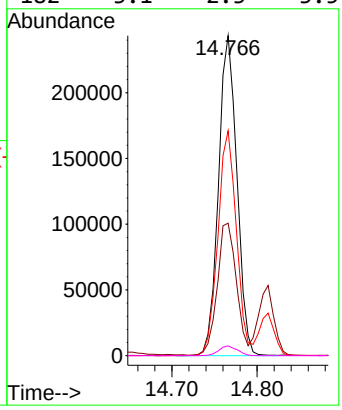


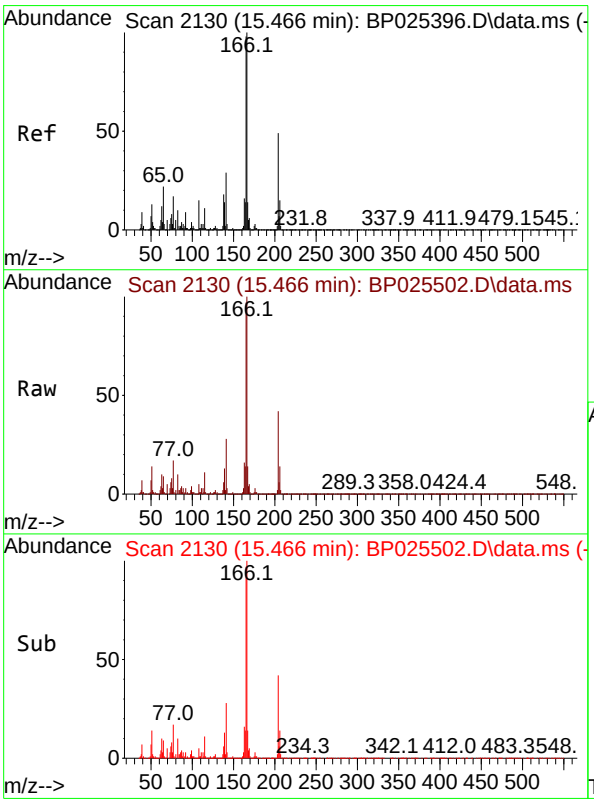
#57
2,4-Dinitrotoluene
Concen: 41.459 ng
RT: 14.766 min Scan# 2(
Delta R.T. -0.000 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:165 Resp: 365491

Ion	Ratio	Lower	Upper
165	100		
63	41.4	31.4	47.2
89	70.3	53.3	79.9
182	3.1	2.3	3.5

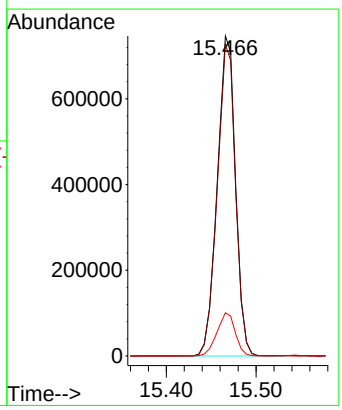


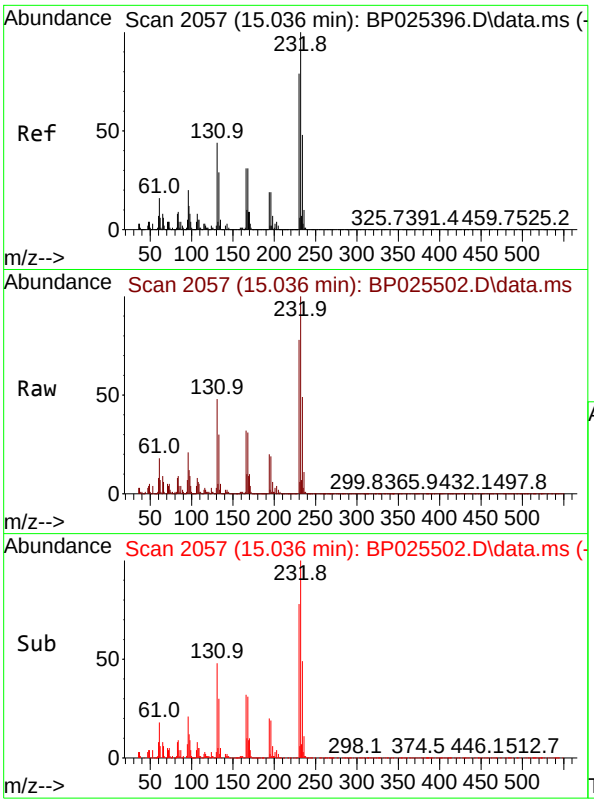


#58
Fluorene
Concen: 38.412 ng
RT: 15.466 min Scan# 2130
Delta R.T. -0.000 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:166 Resp: 1053490

Ion	Ratio	Lower	Upper
166	100		
165	97.4	78.8	118.2
167	13.5	11.0	16.4



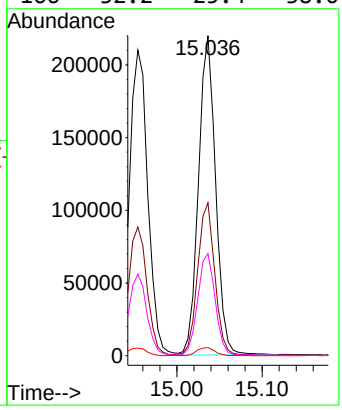


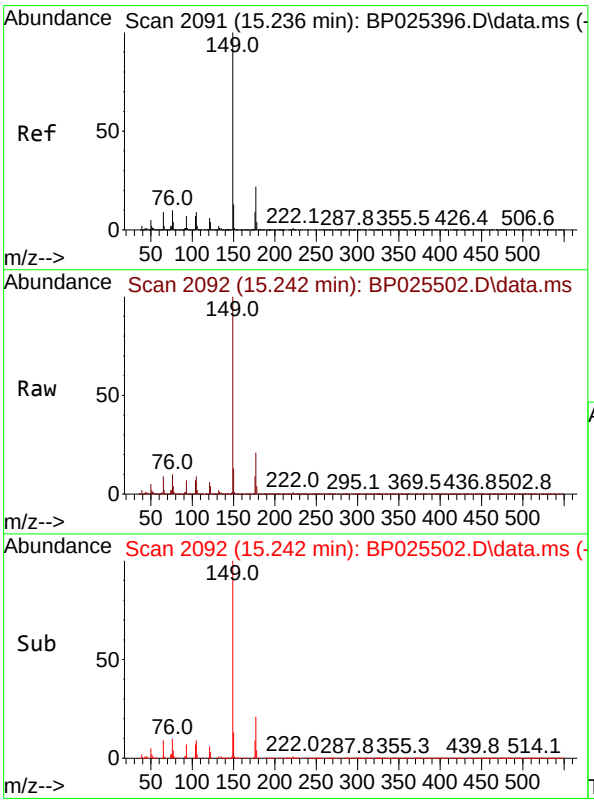
#59
2,3,4,6-Tetrachlorophenol
Concen: 40.574 ng
RT: 15.036 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:232 Resp: 306484

Ion	Ratio	Lower	Upper
232	100		
131	47.8	37.0	55.6
130	2.6	1.9	2.9
166	32.2	25.4	38.0

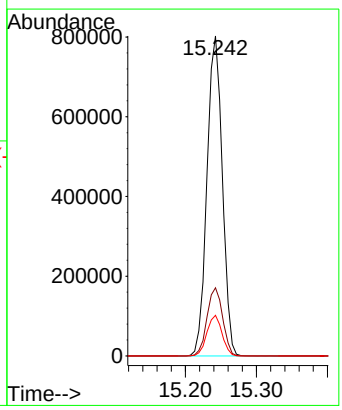


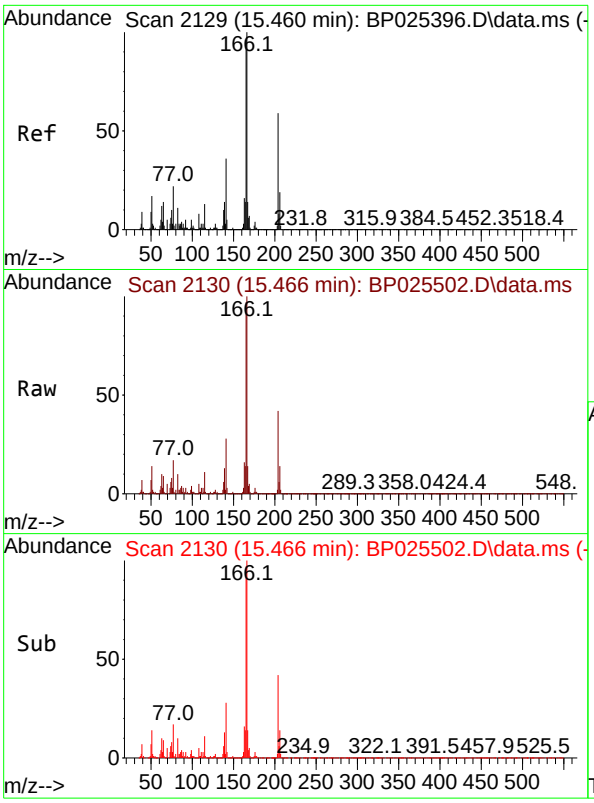


#60
Diethylphthalate
Concen: 40.513 ng
RT: 15.242 min Scan# 2092
Delta R.T. 0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:149 Resp: 1206790

Ion	Ratio	Lower	Upper
149	100		
177	21.3	17.3	25.9
150	12.7	10.3	15.5



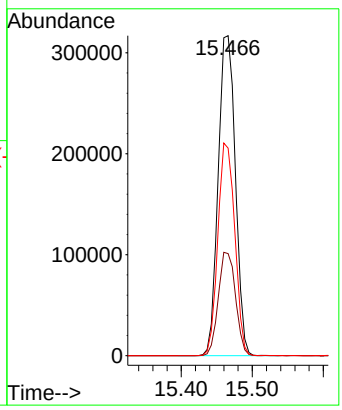


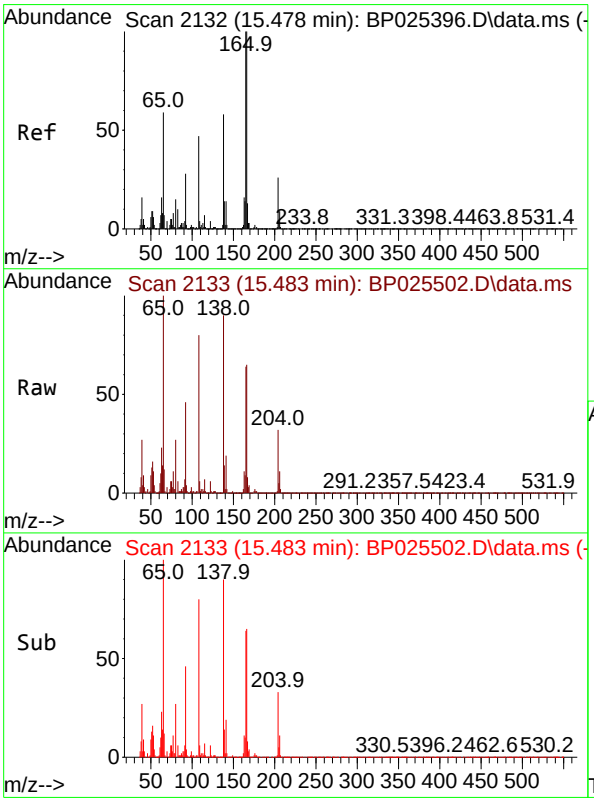
#61
4-Chlorophenyl-phenylether
Concen: 38.934 ng
RT: 15.466 min Scan# 21
Delta R.T. 0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:204 Resp: 531056

Ion	Ratio	Lower	Upper
204	100		
206	31.9	25.8	38.8
141	64.8	49.4	74.2

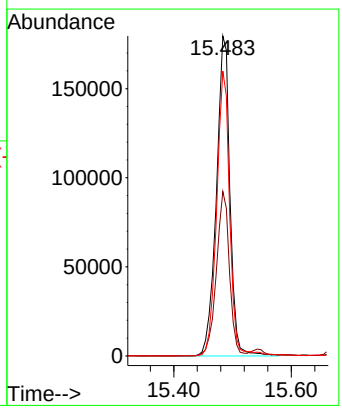


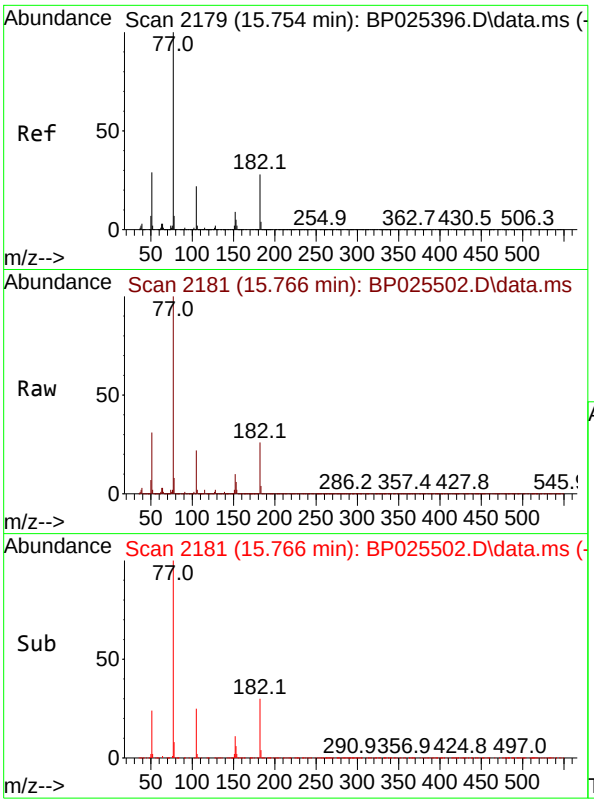


#62
4-Nitroaniline
Concen: 40.530 ng
RT: 15.483 min Scan# 2133
Delta R.T. 0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:138 Resp: 288849

Ion	Ratio	Lower	Upper
138	100		
92	51.4	29.1	69.1
108	89.0	61.5	101.5



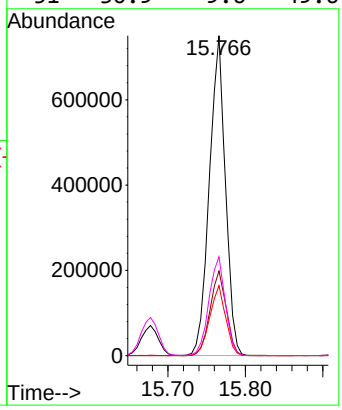


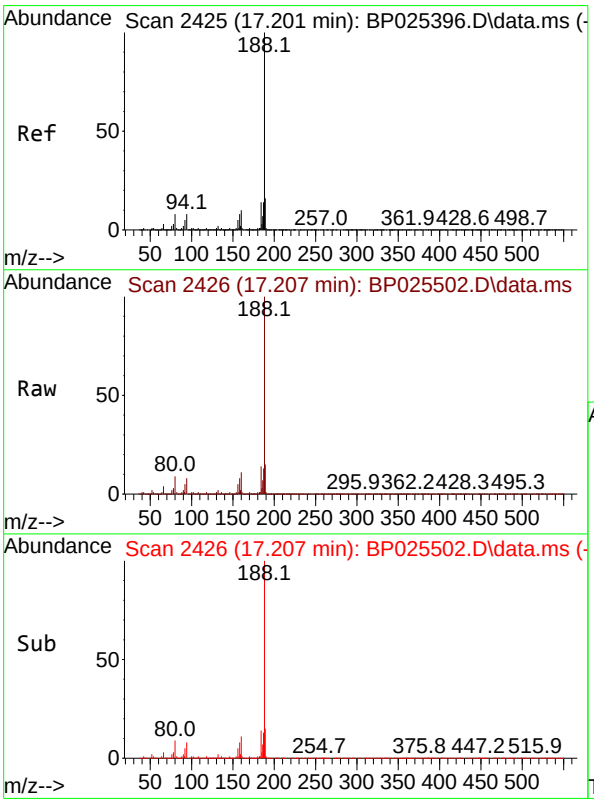
#63
Azobenzene
Concen: 42.199 ng
RT: 15.766 min Scan# 21
Delta R.T. 0.012 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 77 Resp: 1076346

Ion	Ratio	Lower	Upper
77	100		
182	26.4	7.5	47.5
105	21.9	2.1	42.1
51	30.9	9.6	49.6

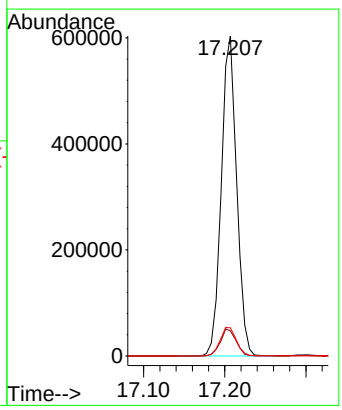


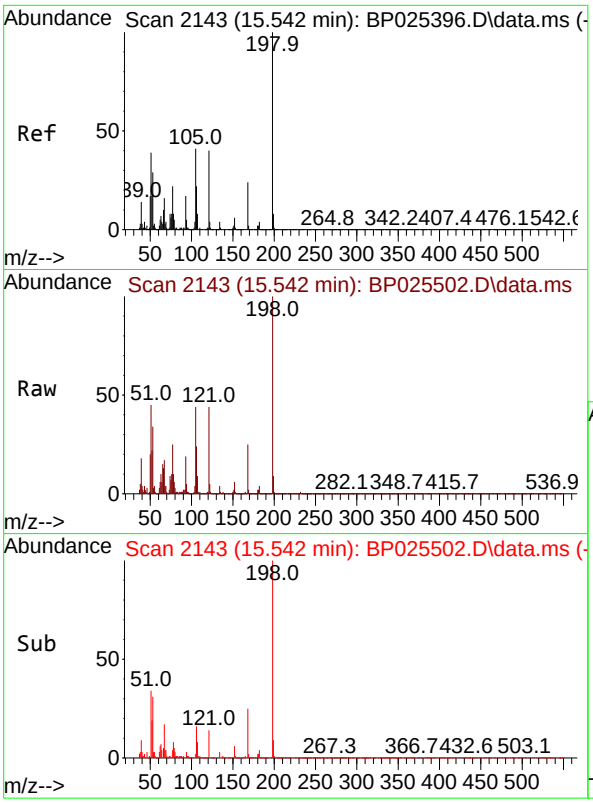


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.207 min Scan# 2426
Delta R.T. 0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:188 Resp: 794586

Ion	Ratio	Lower	Upper
188	100		
94	7.8	6.6	10.0
80	8.8	6.7	10.1



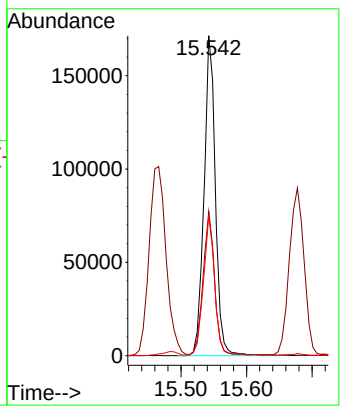


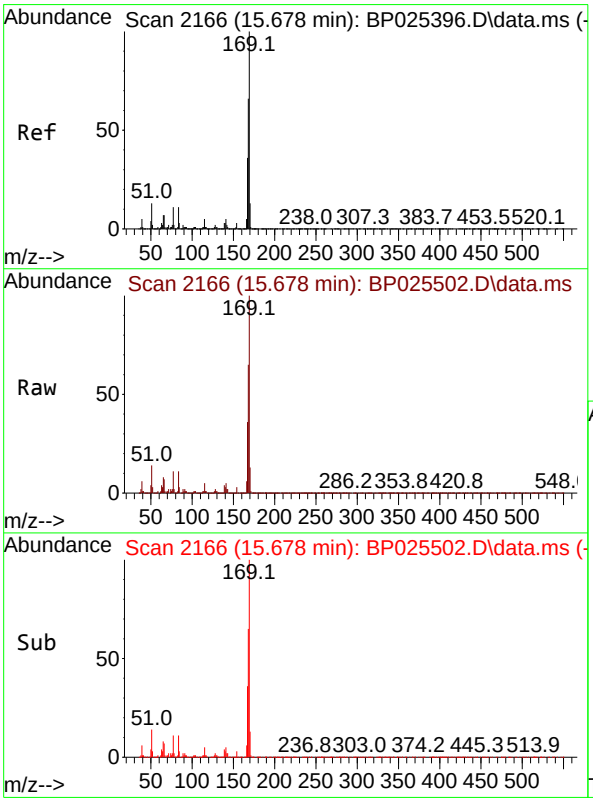
#65
4,6-Dinitro-2-methylphenol
Concen: 41.917 ng
RT: 15.542 min Scan# 21
Delta R.T. -0.000 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:198 Resp: 207617

Ion	Ratio	Lower	Upper
198	100		
51	45.1	19.6	59.6
105	43.8	20.9	60.9

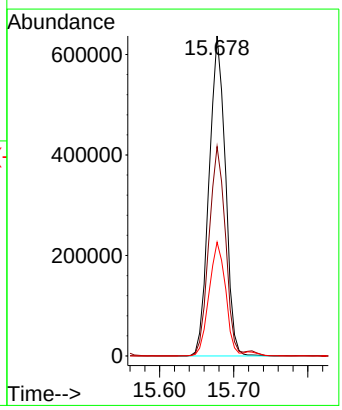


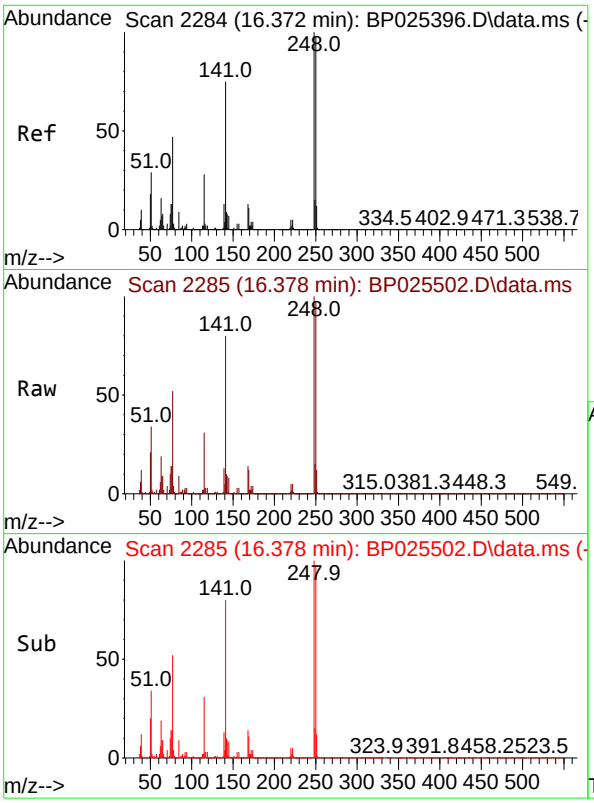


#66
n-Nitrosodiphenylamine
Concen: 40.171 ng
RT: 15.678 min Scan# 2166
Delta R.T. -0.000 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:169 Resp: 973360

Ion	Ratio	Lower	Upper
169	100		
168	65.4	53.2	79.8
167	35.6	28.7	43.1



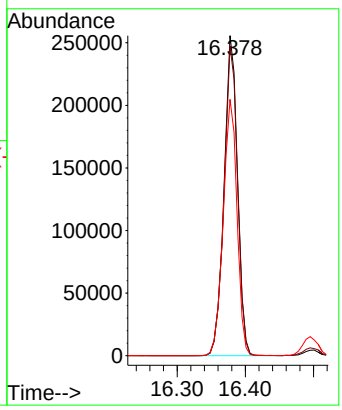


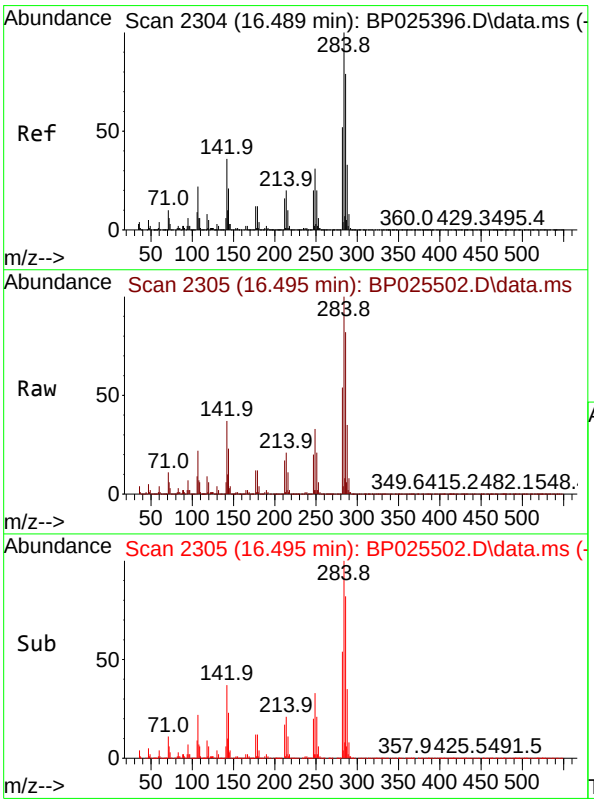
#67
4-Bromophenyl-phenylether
Concen: 40.268 ng
RT: 16.378 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:248 Resp: 351898

Ion	Ratio	Lower	Upper
248	100		
250	96.8	78.2	117.2
141	80.1	59.6	89.4

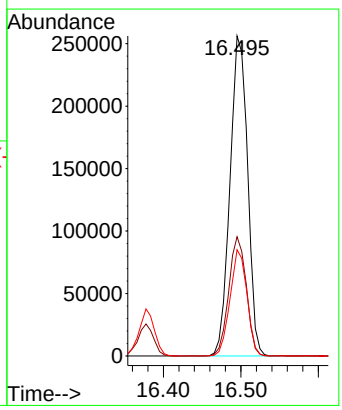


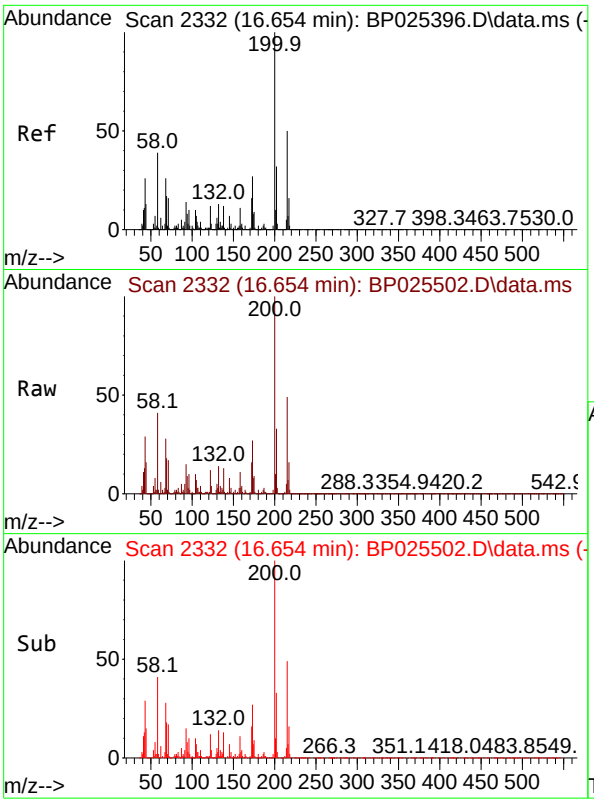


#68
Hexachlorobenzene
Concen: 39.919 ng
RT: 16.495 min Scan# 2305
Delta R.T. 0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:284 Resp: 404392

Ion	Ratio	Lower	Upper
284	100		
142	37.3	29.1	43.7
249	33.2	25.0	37.4



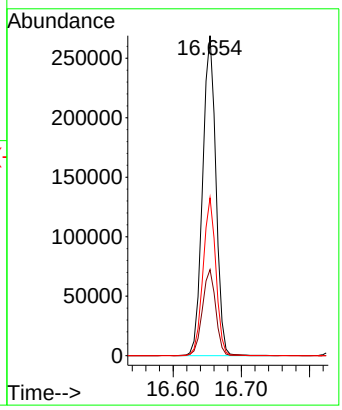


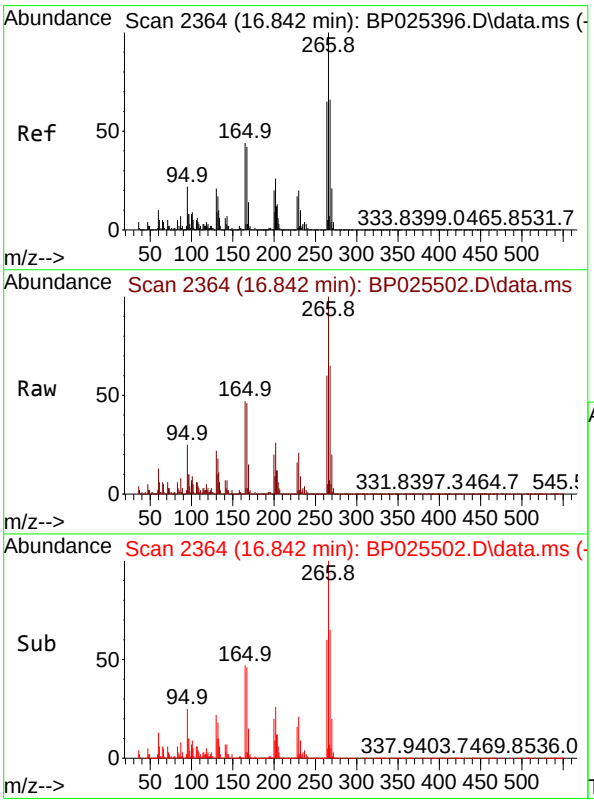
#69
Atrazine
Concen: 40.186 ng
RT: 16.654 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:200 Resp: 364653

Ion	Ratio	Lower	Upper
200	100		
173	26.9	6.7	46.7
215	49.3	29.7	69.7

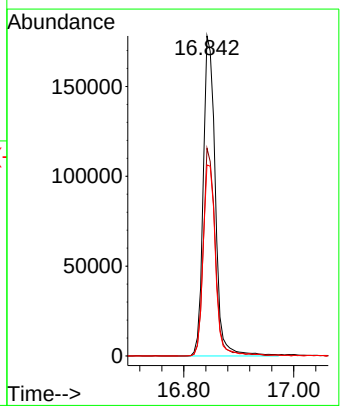


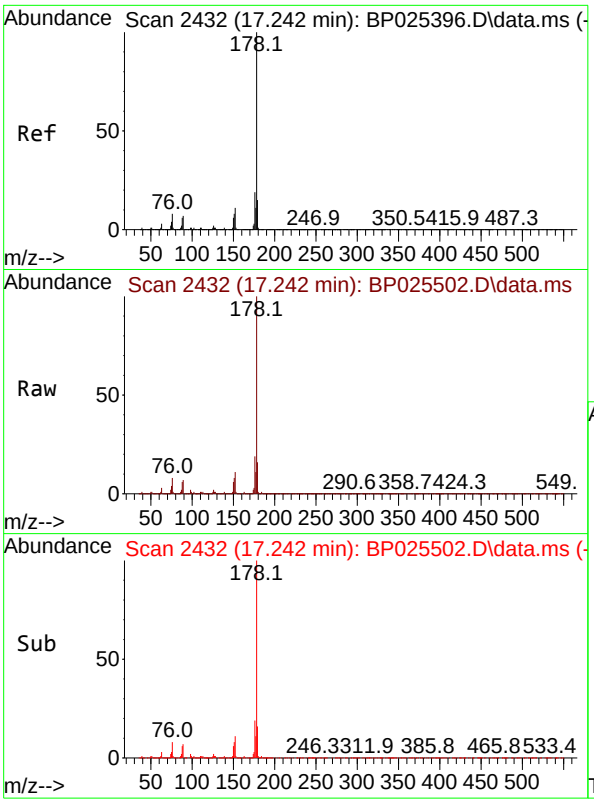


#70
Pentachlorophenol
Concen: 42.449 ng
RT: 16.842 min Scan# 2364
Delta R.T. -0.000 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:266 Resp: 271451

Ion	Ratio	Lower	Upper
266	100		
268	64.9	52.6	79.0
264	59.7	52.0	78.0



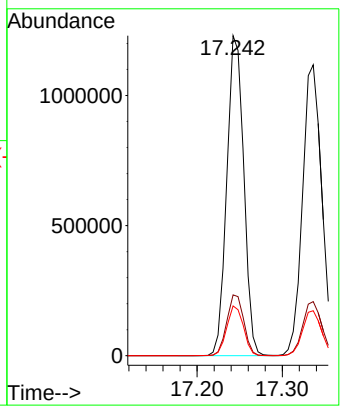


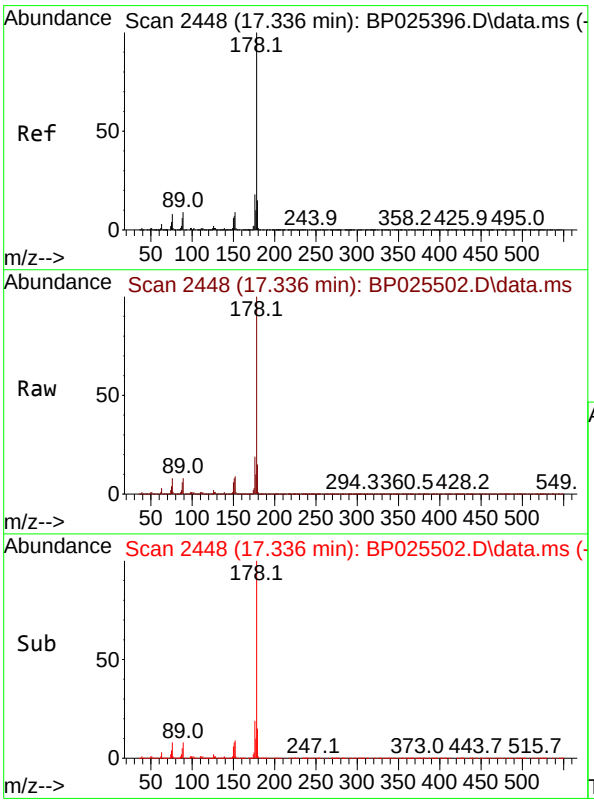
#71
Phenanthrene
Concen: 39.064 ng
RT: 17.242 min Scan# 24
Delta R.T. -0.000 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:178 Resp: 1705125

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.5	23.3
179	15.6	12.2	18.4

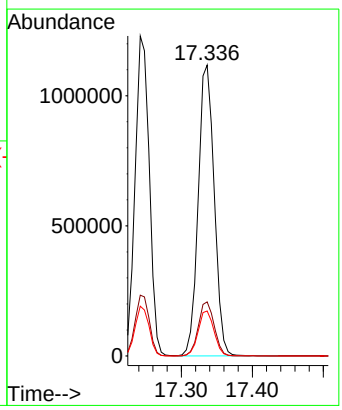


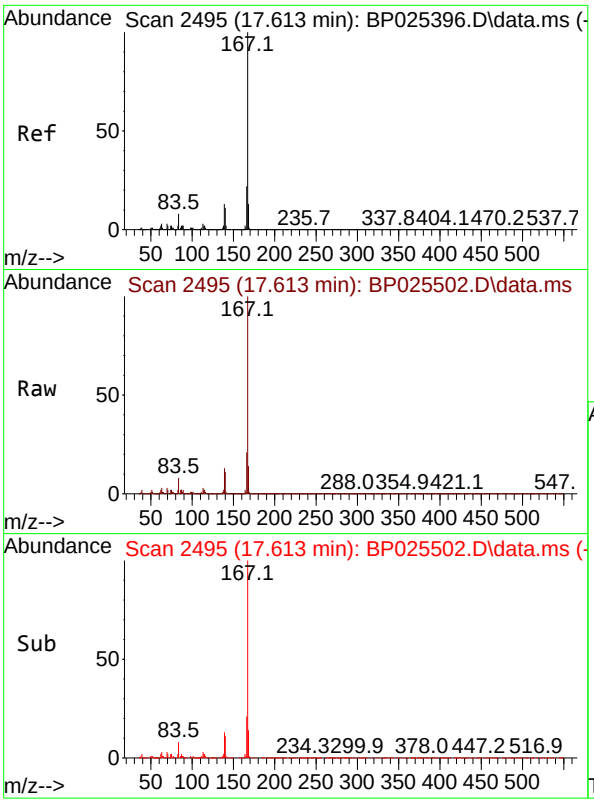


#72
Anthracene
Concen: 39.365 ng
RT: 17.336 min Scan# 2448
Delta R.T. -0.000 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:178 Resp: 1754702

Ion	Ratio	Lower	Upper
178	100		
176	18.6	14.7	22.1
179	15.5	12.2	18.2



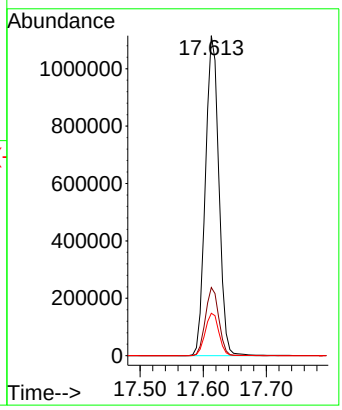


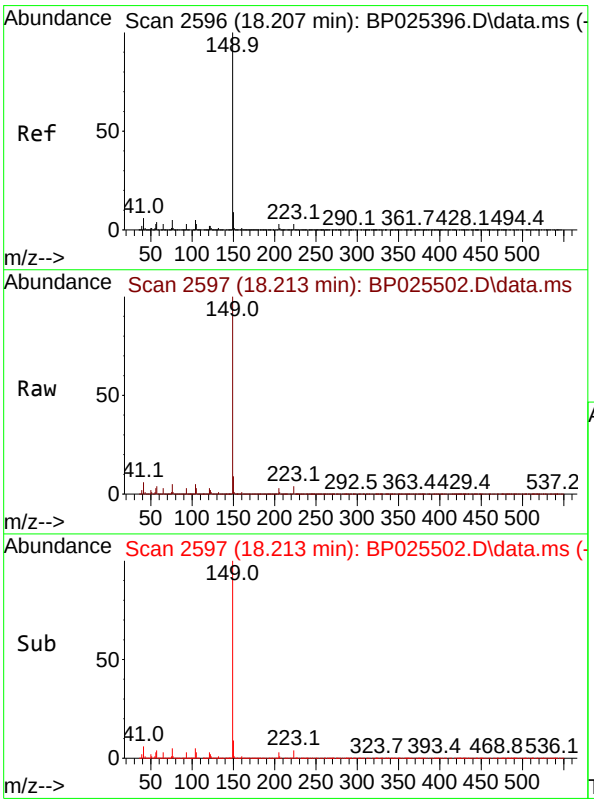
#73
Carbazole
Concen: 39.300 ng
RT: 17.613 min Scan# 24
Delta R.T. -0.000 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:167 Resp: 1650038

Ion	Ratio	Lower	Upper
167	100		
166	21.3	17.5	26.3
139	13.3	10.6	16.0

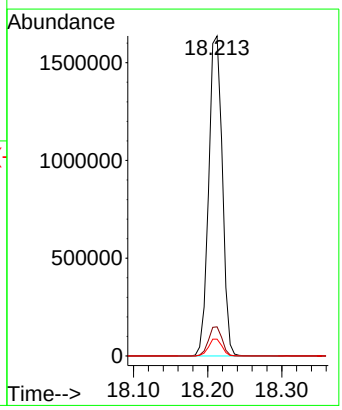


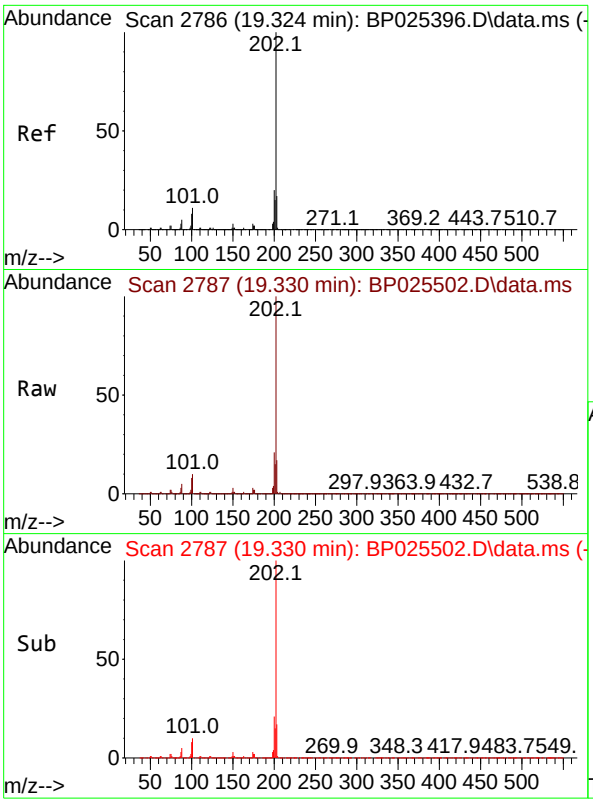


#74
Di-n-butylphthalate
Concen: 40.373 ng
RT: 18.213 min Scan# 2597
Delta R.T. 0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:149 Resp: 2085492

Ion	Ratio	Lower	Upper
149	100		
150	9.1	7.4	11.0
104	5.2	4.2	6.2



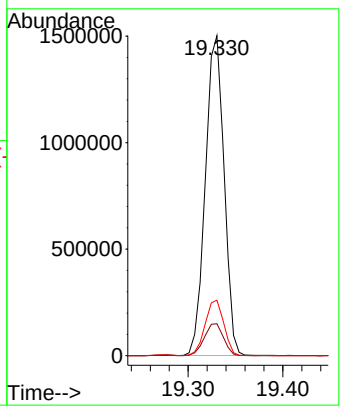


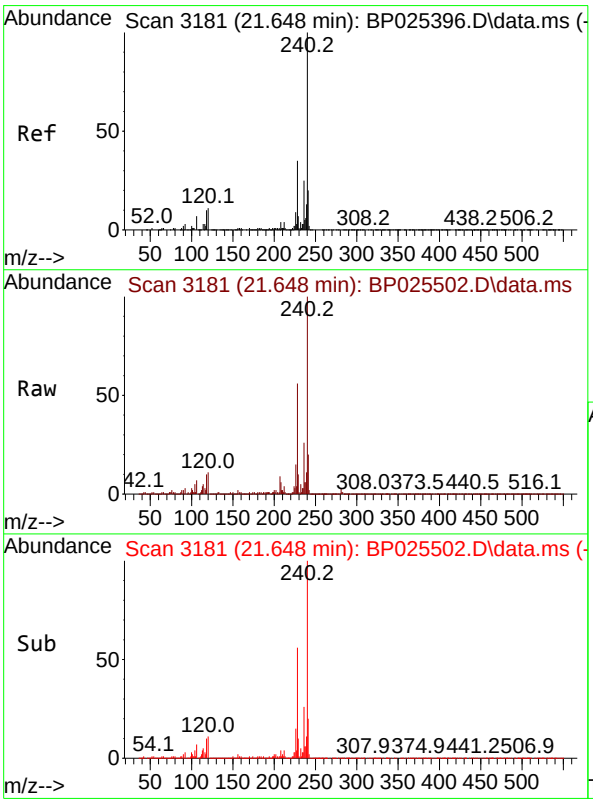
#75
Fluoranthene
Concen: 39.528 ng
RT: 19.330 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:202 Resp: 2058062

Ion	Ratio	Lower	Upper
202	100		
101	10.0	0.0	31.1
203	17.3	0.0	37.3

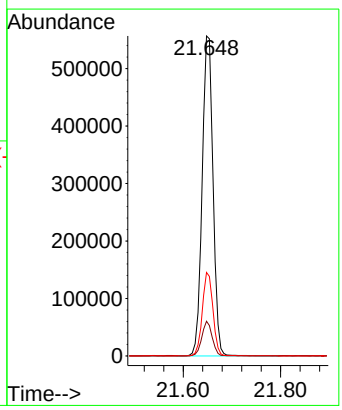


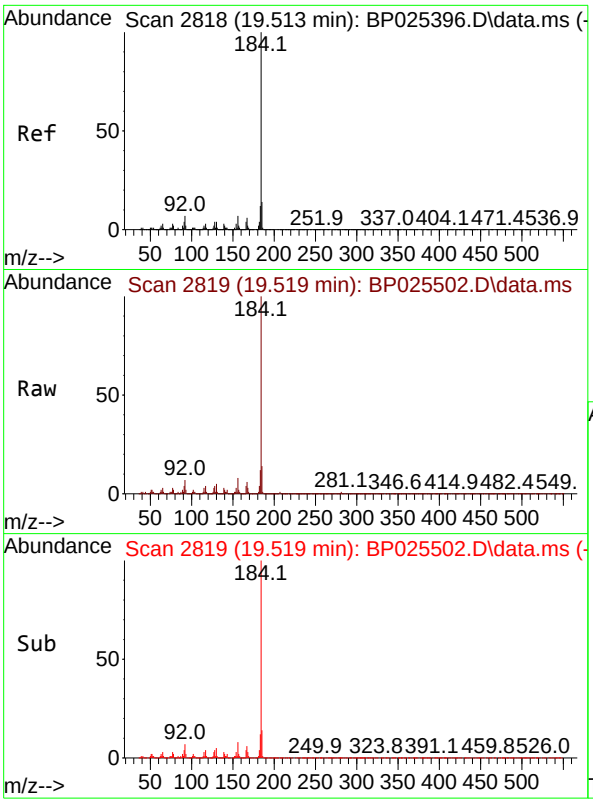


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.648 min Scan# 3181
Delta R.T. -0.000 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:240 Resp: 859938

Ion	Ratio	Lower	Upper
240	100		
120	10.8	8.9	13.3
236	26.1	19.8	29.8



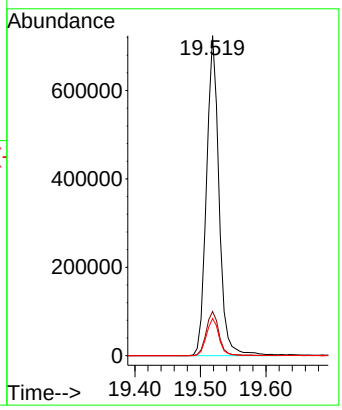


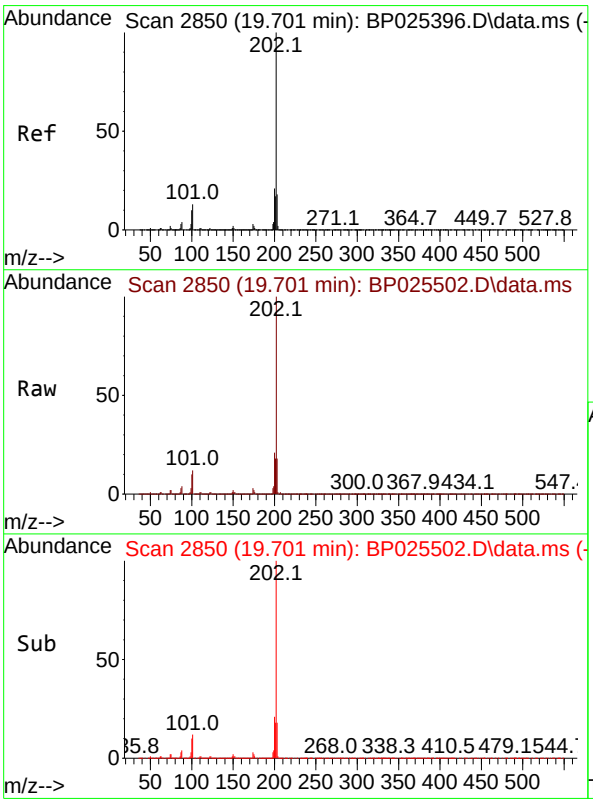
#77
Benzidine
Concen: 32.893 ng
RT: 19.519 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:184 Resp: 965340

Ion	Ratio	Lower	Upper
184	100		
185	13.8	11.5	17.3
183	11.6	9.4	14.2

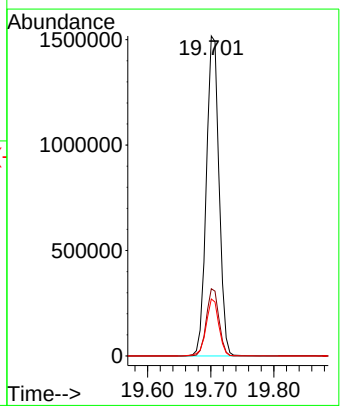


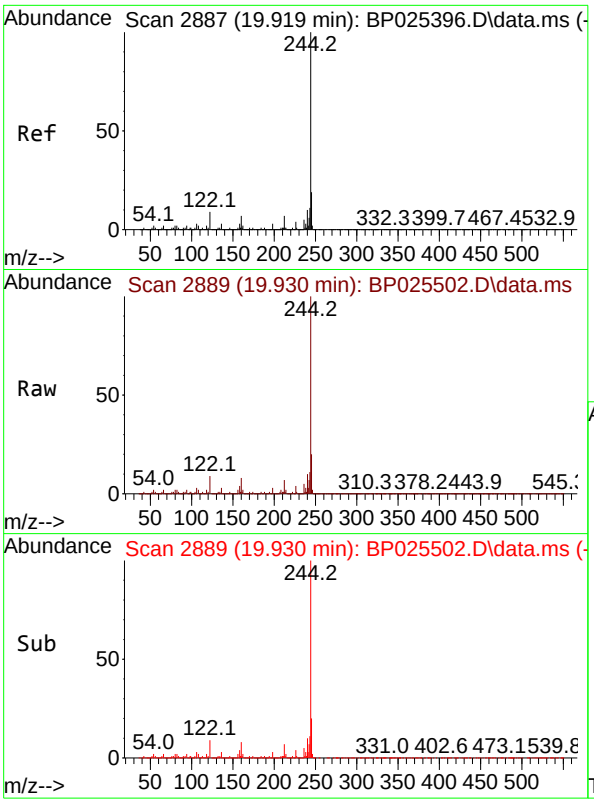


#78
Pyrene
Concen: 37.983 ng
RT: 19.701 min Scan# 2850
Delta R.T. -0.000 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:202 Resp: 2123016

Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.9	25.3
203	17.8	14.2	21.2



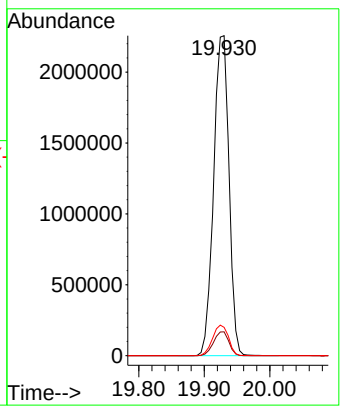


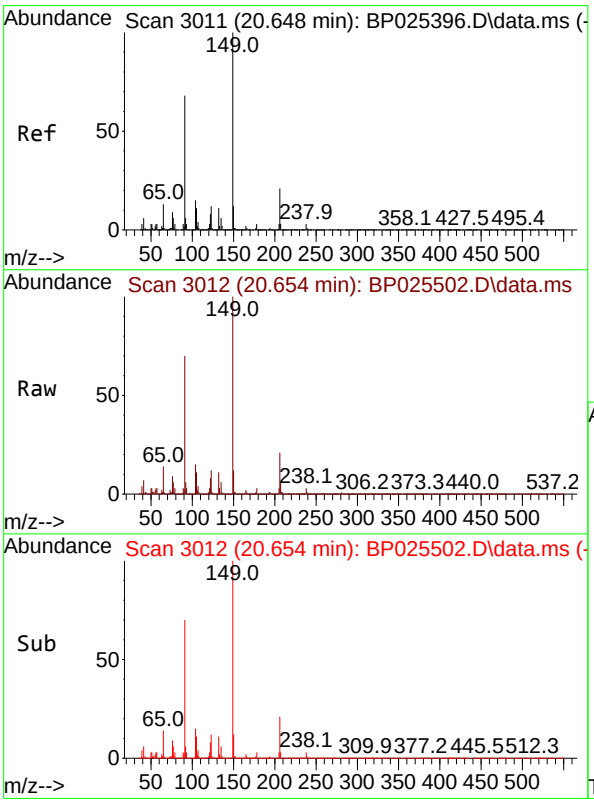
#79
Terphenyl-d14
Concen: 77.772 ng
RT: 19.930 min Scan# 2
Delta R.T. 0.012 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:244 Resp: 3655452

Ion	Ratio	Lower	Upper
244	100		
212	7.5	5.8	8.6
122	8.9	7.4	11.2

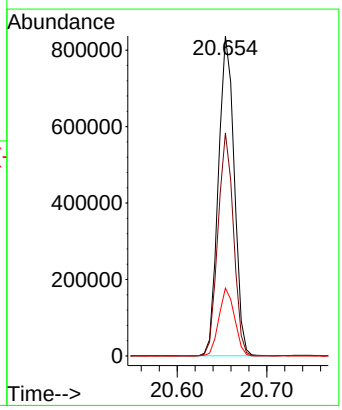


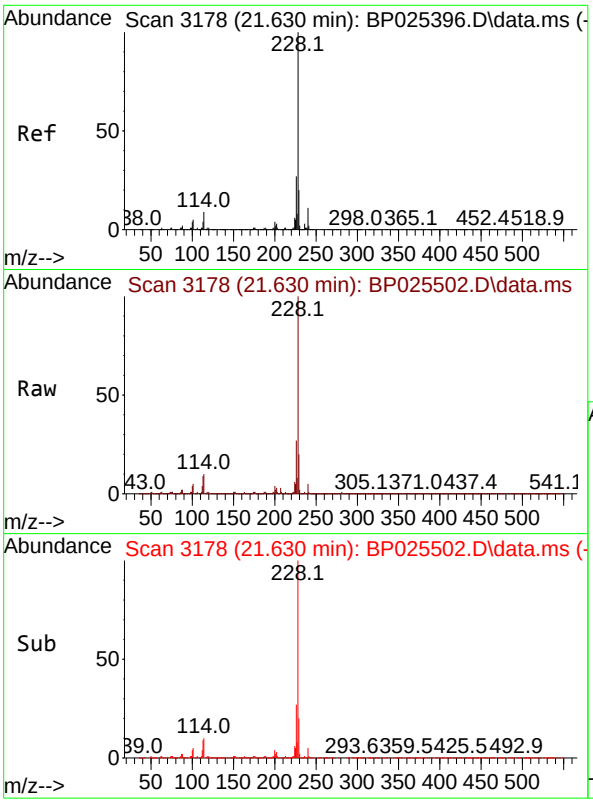


#80
Butylbenzylphthalate
Concen: 40.617 ng
RT: 20.654 min Scan# 3012
Delta R.T. 0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:149 Resp: 1028893

Ion	Ratio	Lower	Upper
149	100		
91	69.7	54.2	81.2
206	21.2	16.6	24.8



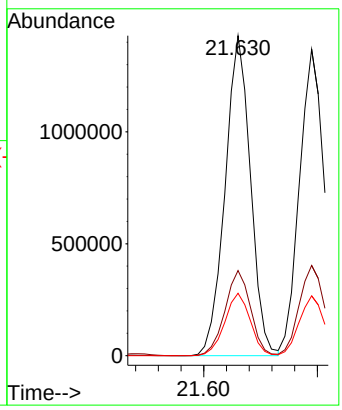


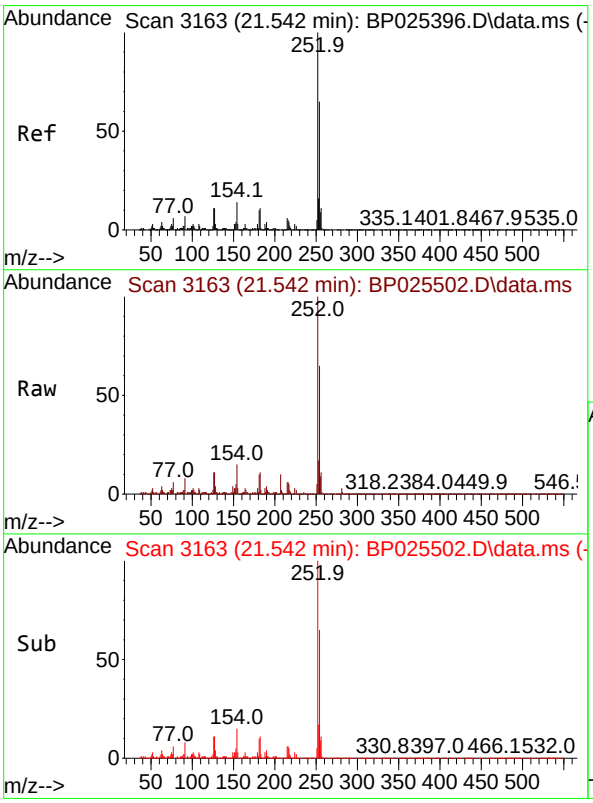
#81
Benzo(a)anthracene
Concen: 39.128 ng
RT: 21.630 min Scan# 3
Delta R.T. -0.000 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:228 Resp: 2219096

Ion	Ratio	Lower	Upper
228	100		
226	26.6	21.7	32.5
229	19.5	15.6	23.4

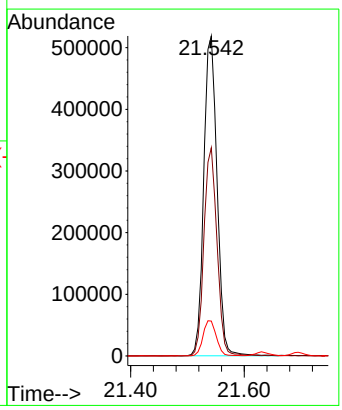


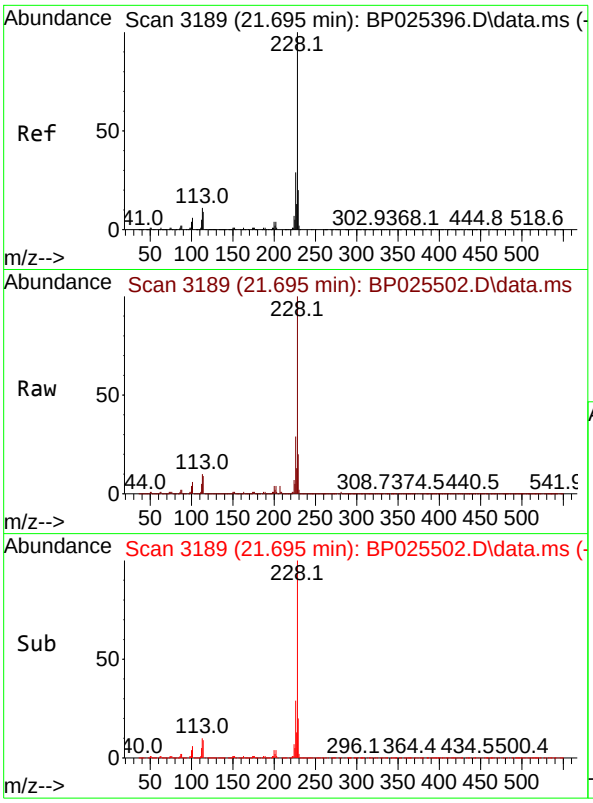


#82
3,3'-Dichlorobenzidine
Concen: 39.295 ng
RT: 21.542 min Scan# 3163
Delta R.T. -0.000 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:252 Resp: 839996

Ion	Ratio	Lower	Upper
252	100		
254	65.0	51.8	77.6
126	10.9	9.1	13.7



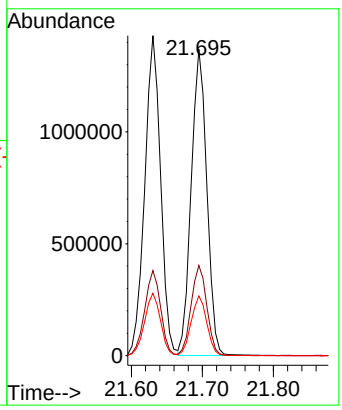


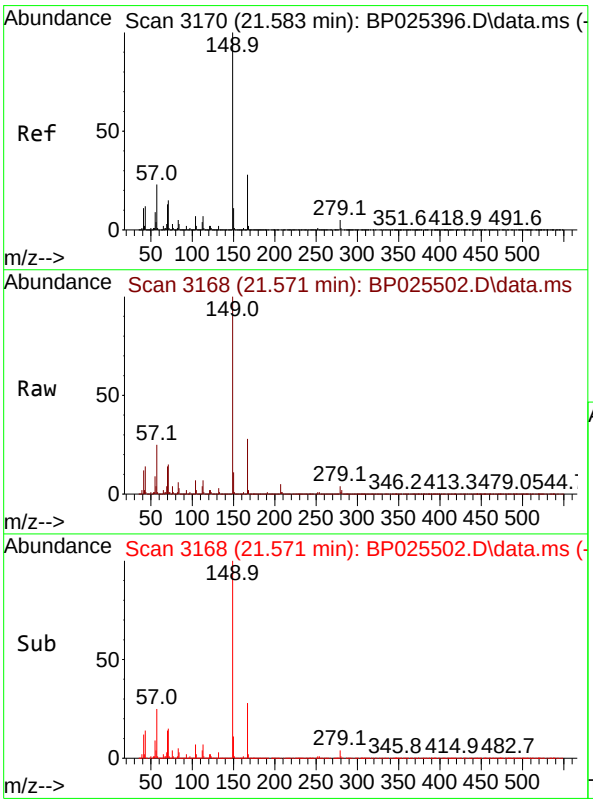
#83
Chrysene
Concen: 39.434 ng
RT: 21.695 min Scan# 3
Delta R.T. -0.000 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:228 Resp: 2094426

Ion	Ratio	Lower	Upper
228	100		
226	29.5	23.2	34.8
229	19.5	15.6	23.4

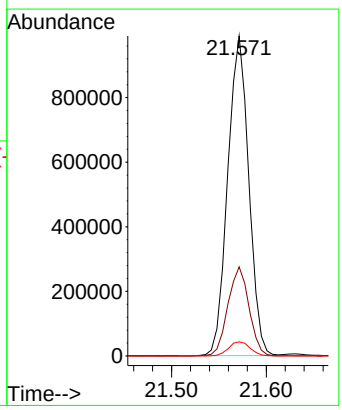


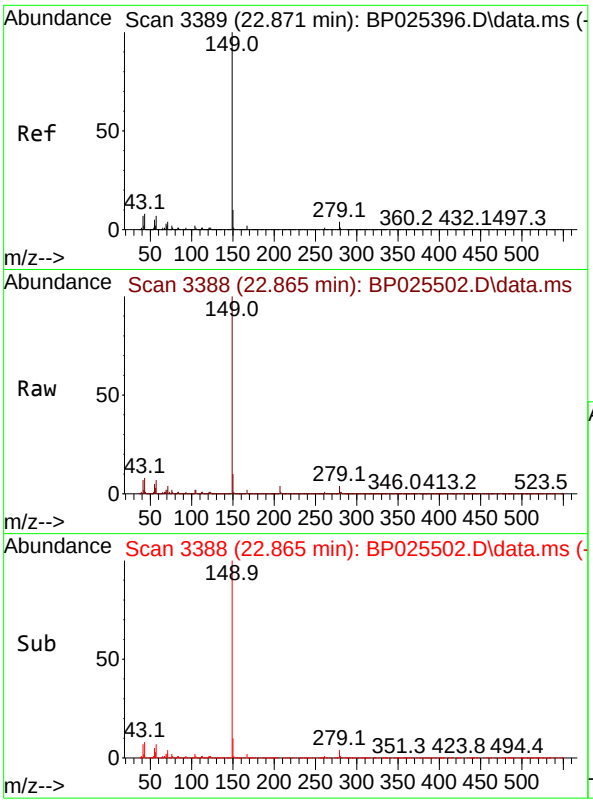


#84
Bis(2-ethylhexyl)phthalate
Concen: 41.001 ng
RT: 21.571 min Scan# 3168
Delta R.T. -0.012 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:149 Resp: 1528918

Ion	Ratio	Lower	Upper
149	100		
167	27.9	22.1	33.1
279	4.4	3.8	5.6



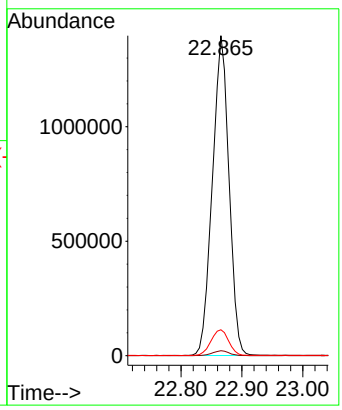


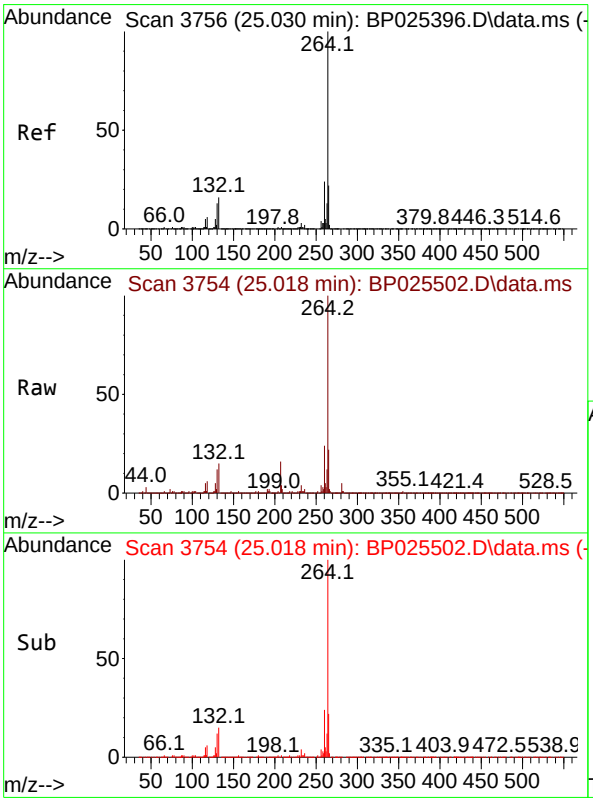
#85
Di-n-octyl phthalate
Concen: 41.280 ng
RT: 22.865 min Scan# 3
Delta R.T. -0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:149 Resp: 2647644

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	8.6	6.3	9.5

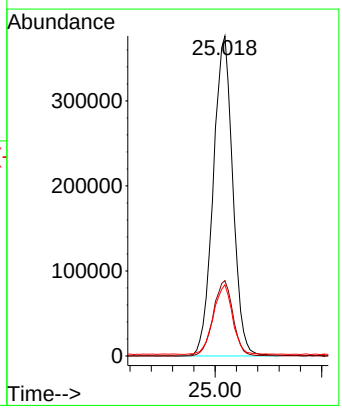


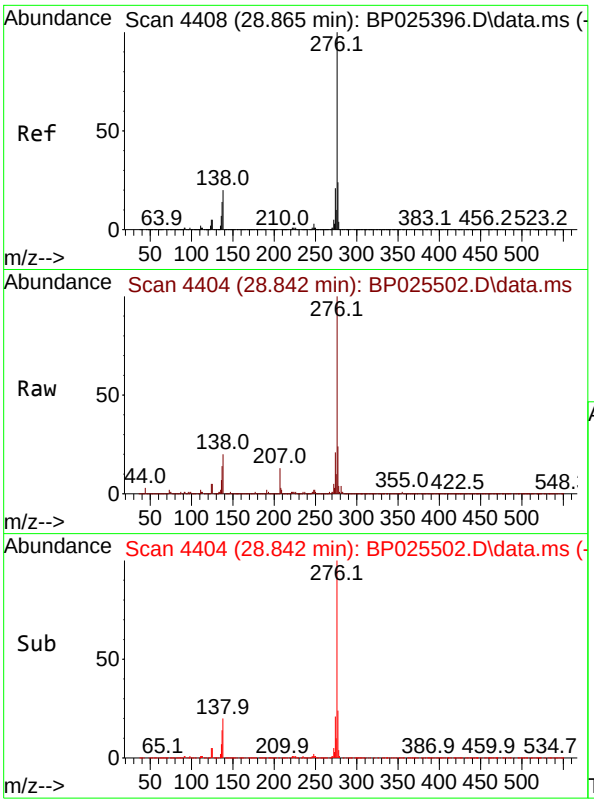


#86
Perylene-d12
Concen: 20.000 ng
RT: 25.018 min Scan# 3754
Delta R.T. -0.012 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:264 Resp: 959319

Ion	Ratio	Lower	Upper
264	100		
260	23.6	19.3	28.9
265	22.3	17.4	26.0



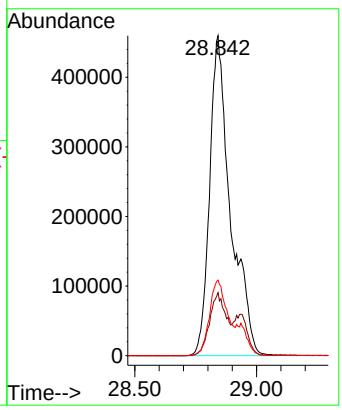


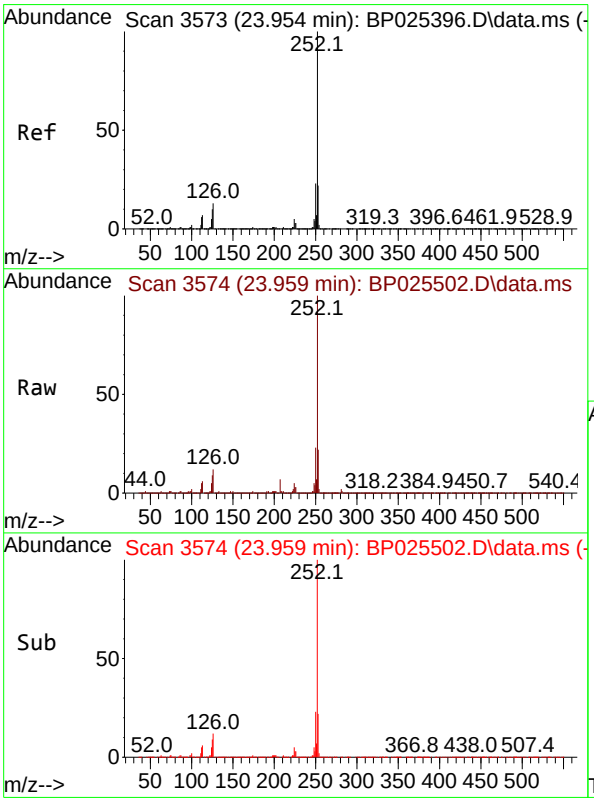
#87
Indeno(1,2,3-cd)pyrene
Concen: 38.904 ng
RT: 28.842 min Scan# 44
Delta R.T. -0.024 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:276 Resp: 2736984

Ion	Ratio	Lower	Upper
276	100		
138	15.6	12.9	19.3
277	20.3	17.0	25.6

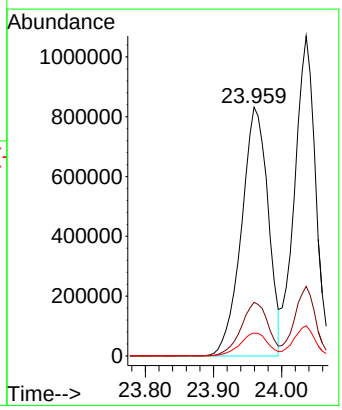


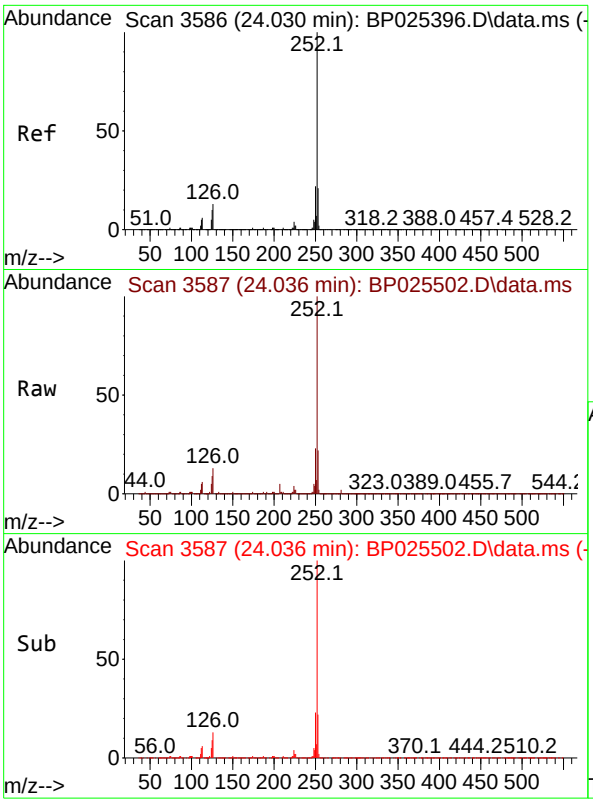


#88
Benzo(b)fluoranthene
Concen: 39.777 ng
RT: 23.959 min Scan# 3574
Delta R.T. 0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:252 Resp: 2250091

Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.7	26.5
125	9.2	7.9	11.9



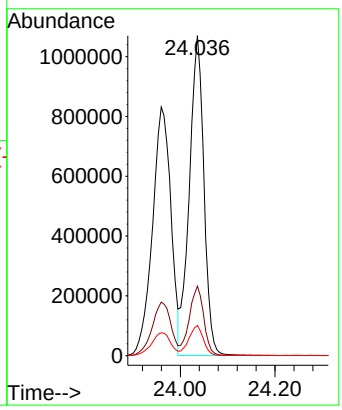


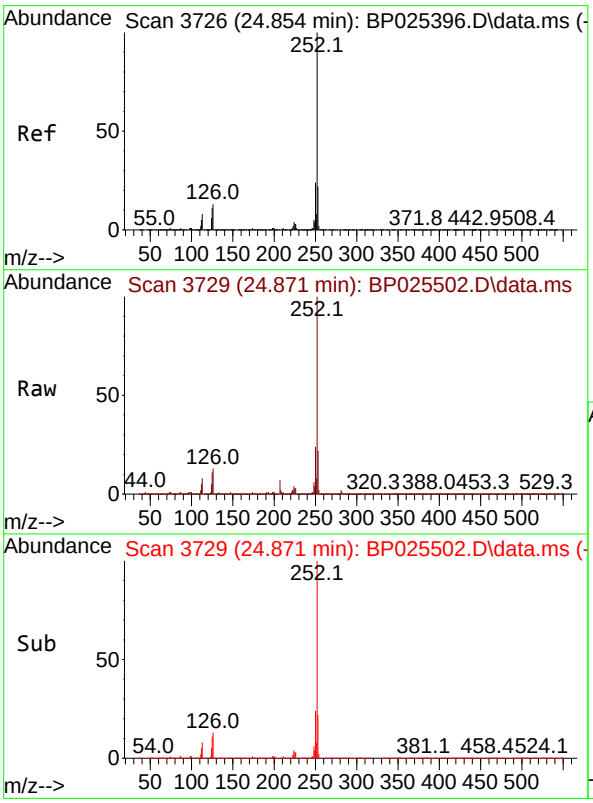
#89
Benzo(k)fluoranthene
Concen: 40.536 ng
RT: 24.036 min Scan# 3
Delta R.T. 0.006 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:252 Resp: 2294595

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.1	25.7
125	9.5	7.8	11.6

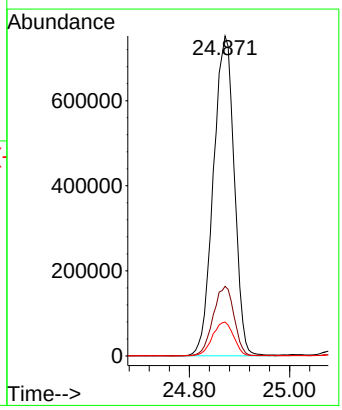


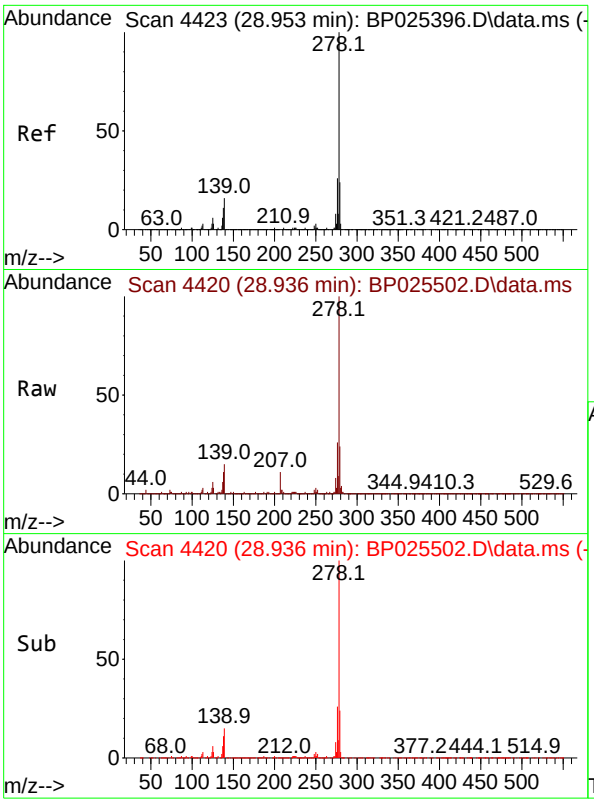


#90
Benzo(a)pyrene
Concen: 39.490 ng
RT: 24.871 min Scan# 3729
Delta R.T. 0.018 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:252 Resp: 2174497

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.5	26.3
125	10.6	8.7	13.1



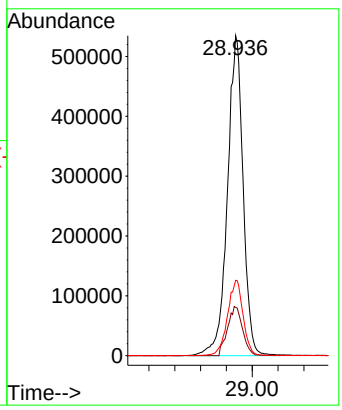


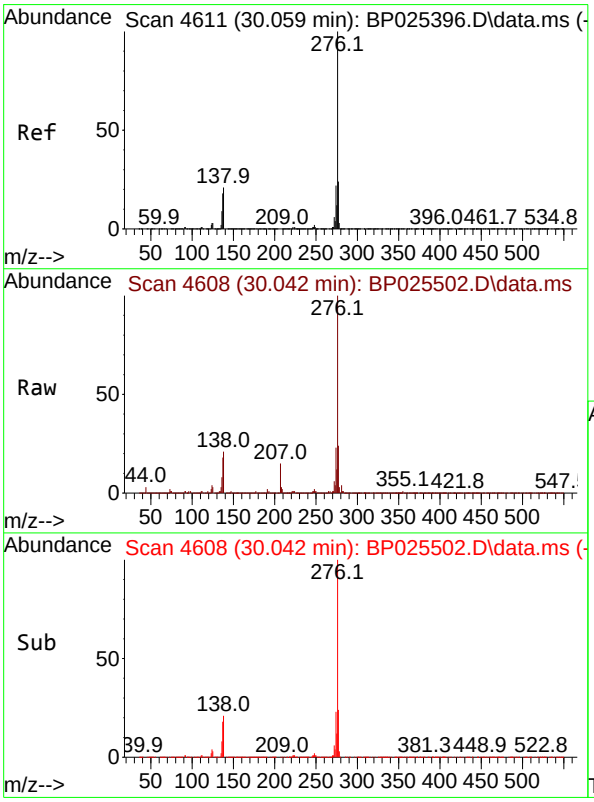
#91
Dibenzo(a,h)anthracene
Concen: 39.346 ng
RT: 28.936 min Scan# 4
Delta R.T. -0.018 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:278 Resp: 2262080

Ion	Ratio	Lower	Upper
278	100		
139	15.1	13.0	19.4
279	23.5	19.4	29.2

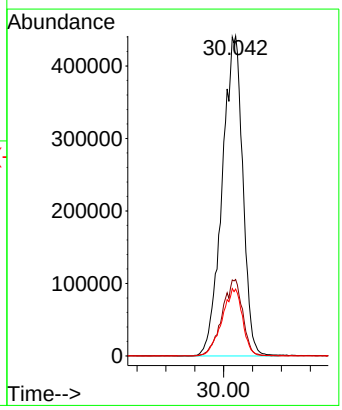




#92
Benzo(g,h,i)perylene
Concen: 38.659 ng
RT: 30.042 min Scan# 4608
Delta R.T. -0.018 min
Lab File: BP025502.D
Acq: 20 Aug 2025 10:41

Tgt Ion:276 Resp: 2184778

Ion	Ratio	Lower	Upper
276	100		
277	23.9	19.4	29.0
138	20.9	16.7	25.1



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025516.D
Acq On : 20 Aug 2025 21:11
Operator : CG/JU
Sample : Q2819-03MS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
22BP-WMS

Quant Time: Aug 21 01:37:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.790	152	196853	20.000	ng		0.00
21) Naphthalene-d8	10.555	136	796434	20.000	ng		0.00
39) Acenaphthene-d10	14.407	164	542391	20.000	ng		0.00
64) Phenanthrene-d10	17.207	188	1090849	20.000	ng		0.00
76) Chrysene-d12	21.642	240	892873	20.000	ng		0.00
86) Perylene-d12	25.024	264	958463	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.408	112	1211281	102.187	ng		0.00
7) Phenol-d6	6.972	99	1591692	104.735	ng		0.00
23) Nitrobenzene-d5	8.931	82	1023958	65.037	ng		0.00
42) 2,4,6-Tribromophenol	15.913	330	771618	105.692	ng		0.00
45) 2-Fluorobiphenyl	13.019	172	2319713	58.451	ng		0.00
79) Terphenyl-d14	19.925	244	3434227	70.370	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.331	88	174087	37.494	ng		96
3) Pyridine	3.725	79	483273	38.028	ng		95
4) n-Nitrosodimethylamine	3.631	42	256777	49.010	ng		90
6) Aniline	7.125	93	752387	36.745	ng		99
8) 2-Chlorophenol	7.366	128	652515	48.782	ng		100
9) Benzaldehyde	6.937	77	299983	28.174	ng		97
10) Phenol	7.002	94	788903	49.471	ng		97
11) bis(2-Chloroethyl)ether	7.219	93	565023	45.459	ng		99
12) 1,3-Dichlorobenzene	7.678	146	658534	44.648	ng		97
13) 1,4-Dichlorobenzene	7.825	146	666221	44.192	ng		98
14) 1,2-Dichlorobenzene	8.137	146	650052	44.544	ng		99
15) Benzyl Alcohol	8.025	79	586521	48.572	ng		95
16) 2,2'-oxybis(1-Chloropr...	8.308	45	772444	46.392	ng		99
17) 2-Methylphenol	8.225	107	541309	48.875	ng		98
18) Hexachloroethane	8.861	117	253613	45.754	ng		99
19) n-Nitroso-di-n-propyla...	8.584	70	447356	44.440	ng		97
20) 3+4-Methylphenols	8.549	107	747172	48.669	ng		98
22) Acetophenone	8.602	105	925700	46.348	ng	#	98
24) Nitrobenzene	8.972	77	669544	47.583	ng		99
25) Isophorone	9.502	82	1291341	46.346	ng		98
26) 2-Nitrophenol	9.678	139	359110	49.729	ng		99
27) 2,4-Dimethylphenol	9.743	122	616027	49.605	ng		97
28) bis(2-Chloroethoxy)met...	9.966	93	792282	47.040	ng		98
29) 2,4-Dichlorophenol	10.213	162	629551	51.032	ng		98
30) 1,2,4-Trichlorobenzene	10.425	180	608202	44.974	ng		98
31) Naphthalene	10.607	128	1888650	45.625	ng		99
32) Benzoic acid	9.908	122	515480	56.224	ng		96
33) 4-Chloroaniline	10.713	127	450951	24.662	ng		99
34) Hexachlorobutadiene	10.896	225	388664	46.148	ng		99
35) Caprolactam	11.507	113	202272	44.716	ng		97
36) 4-Chloro-3-methylphenol	11.843	107	734853	51.912	ng		95
37) 2-Methylnaphthalene	12.213	142	1263780	46.913	ng		99
38) 1-Methylnaphthalene	12.437	142	1302740	45.474	ng		100
40) 1,2,4,5-Tetrachloroben...	12.590	216	702998	44.877	ng		99
41) Hexachlorocyclopentadiene	12.566	237	844610	89.262	ng		99
43) 2,4,6-Trichlorophenol	12.825	196	529135	50.034	ng		99

Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025516.D
Acq On : 20 Aug 2025 21:11
Operator : CG/JU
Sample : Q2819-03MS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
22BP-WMS

Quant Time: Aug 21 01:37:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.901	196	592451	51.115	ng	99
46) 1,1'-Biphenyl	13.225	154	1816843	46.123	ng	98
47) 2-Chloronaphthalene	13.272	162	1392441	45.407	ng	100
48) 2-Nitroaniline	13.466	65	470973	52.709	ng	96
49) Acenaphthylene	14.125	152	2335961	46.035	ng	100
50) Dimethylphthalate	13.854	163	1923497	48.428	ng	99
51) 2,6-Dinitrotoluene	13.972	165	423357	50.571	ng	94
52) Acenaphthene	14.472	154	1333260	44.762	ng	99
53) 3-Nitroaniline	14.307	138	306252	32.515	ng	96
54) 2,4-Dinitrophenol	14.513	184	518294	115.933	ng	97
55) Dibenzofuran	14.807	168	2154905	45.760	ng	98
56) 4-Nitrophenol	14.631	139	779771	100.749	ng	90
57) 2,4-Dinitrotoluene	14.772	165	614566	51.453	ng	97
58) Fluorene	15.472	166	1680951	45.238	ng	99
59) 2,3,4,6-Tetrachlorophenol	15.048	232	520533	50.862	ng	98
60) Diethylphthalate	15.237	149	1984056	49.161	ng	99
61) 4-Chlorophenyl-phenyle...	15.460	204	831152	44.976	ng	95
62) 4-Nitroaniline	15.490	138	454185	47.037	ng	94
63) Azobenzene	15.760	77	1878426	54.357	ng	99
65) 4,6-Dinitro-2-methylph...	15.548	198	350723	51.578	ng	94
66) n-Nitrosodiphenylamine	15.678	169	1571731	47.250	ng	100
67) 4-Bromophenyl-phenylether	16.372	248	585013	48.762	ng	96
68) Hexachlorobenzene	16.495	284	647628	46.567	ng	97
69) Atrazine	16.654	200	609543	48.929	ng	97
70) Pentachlorophenol	16.854	266	874797	99.646	ng	98
71) Phenanthrene	17.248	178	2736199	45.661	ng	99
72) Anthracene	17.337	178	2877852	47.028	ng	100
73) Carbazole	17.619	167	2644146	45.874	ng	99
74) Di-n-butylphthalate	18.213	149	3447802	48.618	ng	100
75) Fluoranthene	19.331	202	3141701	43.953	ng	98
77) Benzidine	19.519	184	1326808	43.542	ng	100
78) Pyrene	19.701	202	3208701	55.290	ng	100
80) Butylbenzylphthalate	20.654	149	1400983	53.266	ng	98
81) Benzo(a)anthracene	21.625	228	2805279	47.640	ng	100
82) 3,3'-Dichlorobenzidine	21.536	252	732910	33.021	ng	99
83) Chrysene	21.689	228	2621789	47.543	ng	99
84) Bis(2-ethylhexyl)phtha...	21.566	149	1896634	48.987	ng	100
85) Di-n-octyl phthalate	22.854	149	3136775	47.102	ng	99
87) Indeno(1,2,3-cd)pyrene	28.854	276	3107131	44.205	ng	94
88) Benzo(b)fluoranthene	23.960	252	2744537	48.561	ng	99
89) Benzo(k)fluoranthene	24.042	252	2665398	47.128	ng	99
90) Benzo(a)pyrene	24.866	252	2619564	47.615	ng	100
91) Dibenzo(a,h)anthracene	28.936	278	2852762	49.664	ng	99
92) Benzo(g,h,i)perylene	30.048	276	2821095	49.963	ng	98

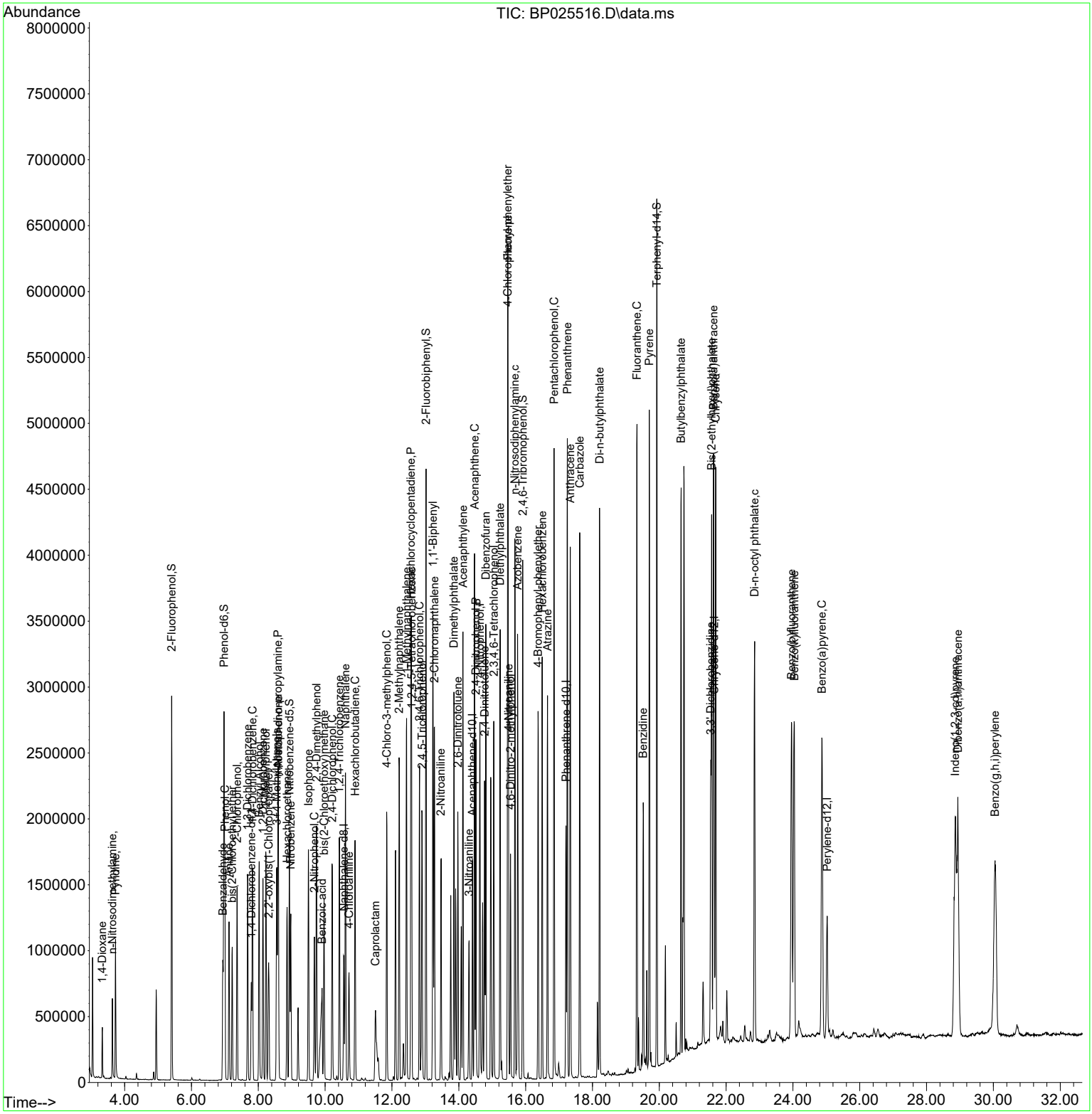
(#) = qualifier out of range (m) = manual integration (+) = signals summed

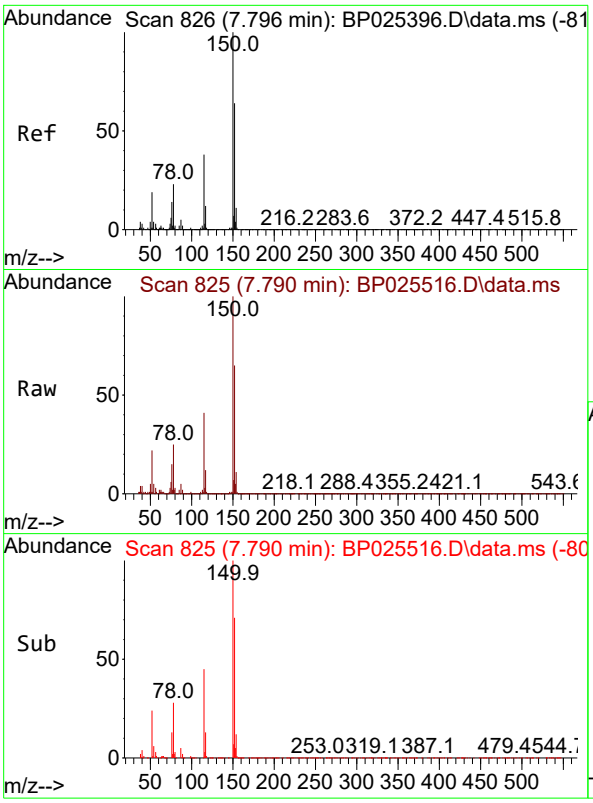
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025516.D
Acq On : 20 Aug 2025 21:11
Operator : CG/JU
Sample : Q2819-03MS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
22BP-WMS

Quant Time: Aug 21 01:37:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration



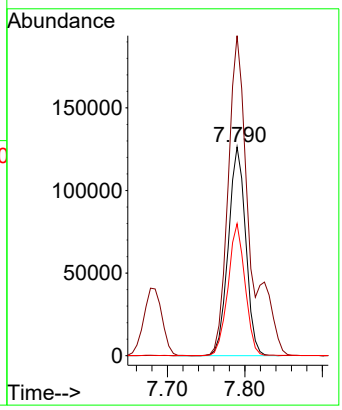


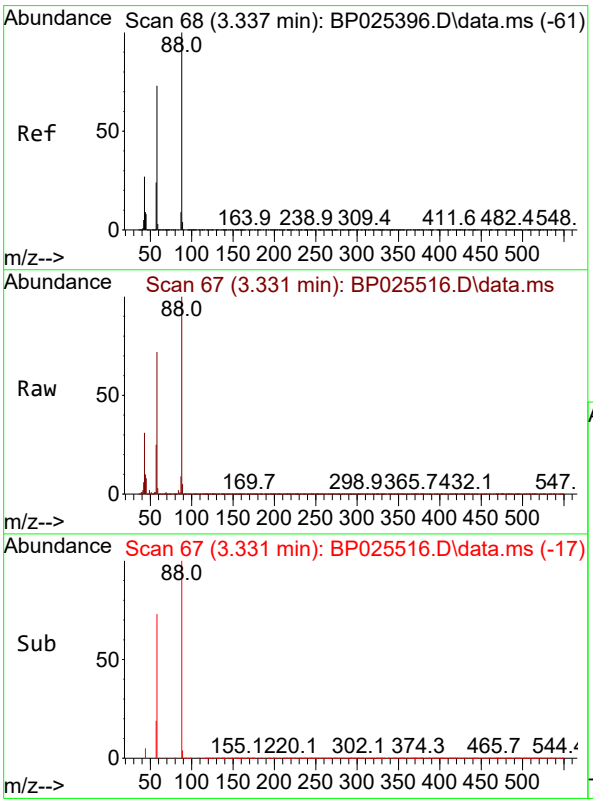
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.790 min Scan# 8
Delta R.T. -0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Instrument :
BNA_P
ClientSampleId :
22BP-WMS

Tgt Ion:152 Resp: 196853

Ion	Ratio	Lower	Upper
152	100		
150	153.3	125.9	188.9
115	63.3	48.5	72.7

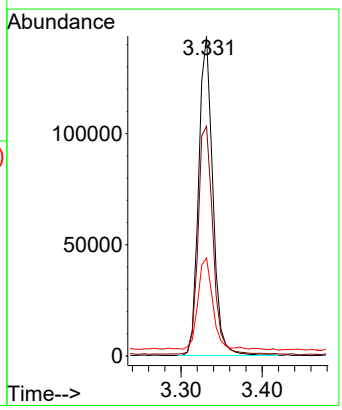


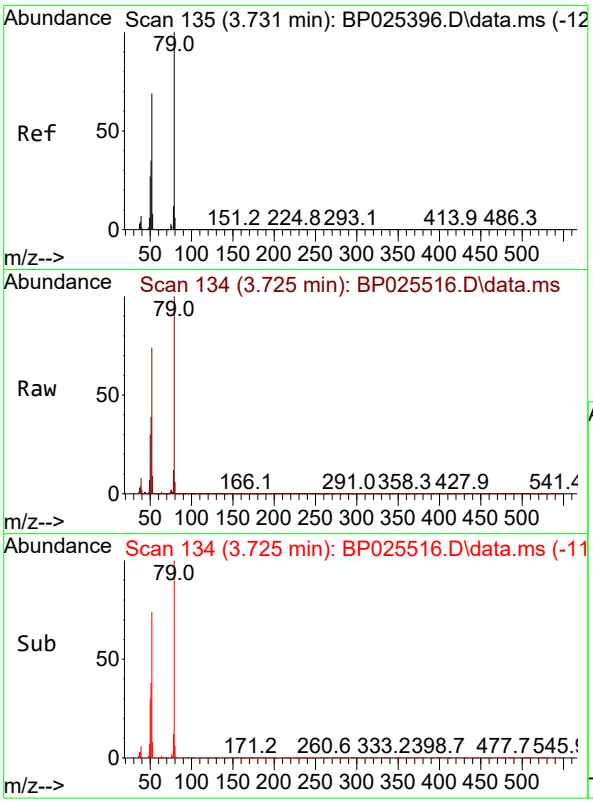


#2
1,4-Dioxane
Concen: 37.494 ng
RT: 3.331 min Scan# 67
Delta R.T. -0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion: 88 Resp: 174087

Ion	Ratio	Lower	Upper
88	100		
58	76.7	59.2	88.8
43	29.8	21.7	32.5



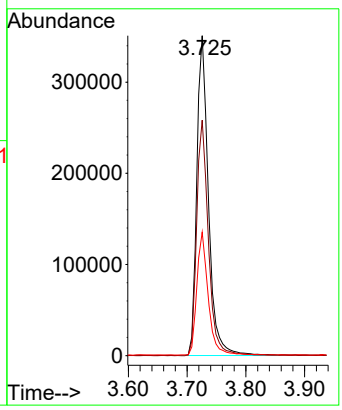


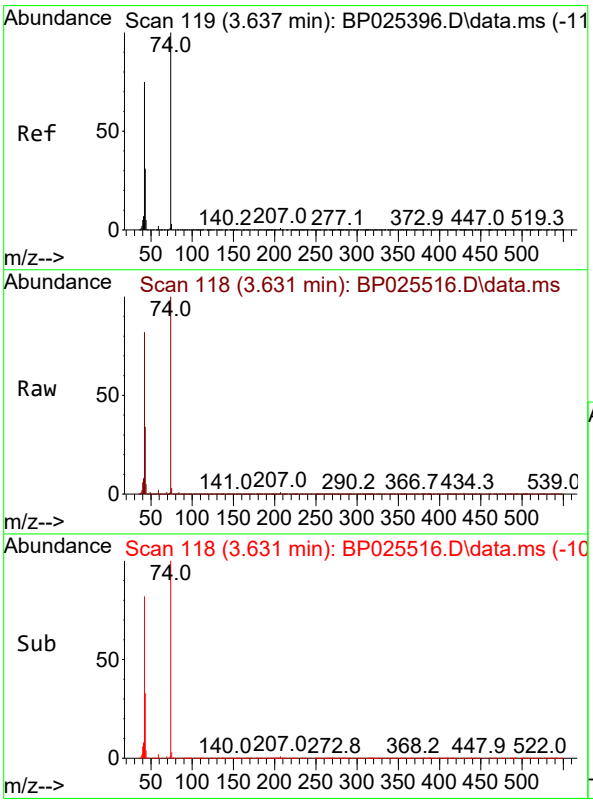
#3
Pyridine
Concen: 38.028 ng
RT: 3.725 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Instrument :
BNA_P
ClientSampleId :
22BP-WMS

Tgt Ion: 79 Resp: 483273

Ion	Ratio	Lower	Upper
79	100		
52	73.6	55.5	83.3
51	38.6	28.3	42.5

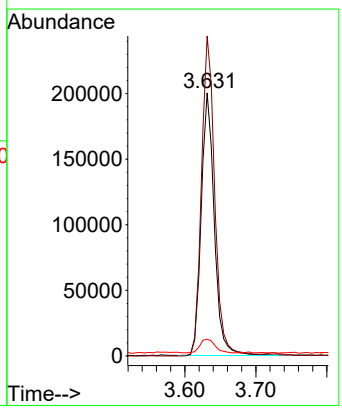


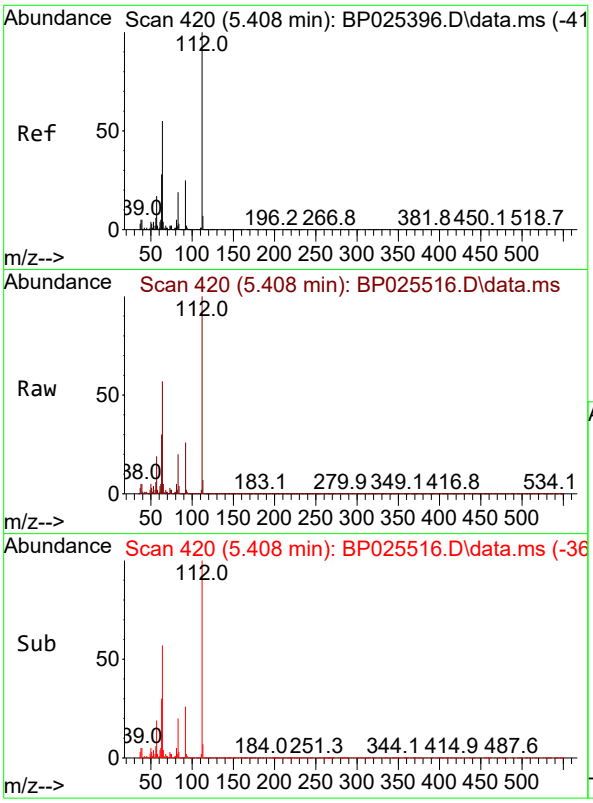


#4
n-Nitrosodimethylamine
Concen: 49.010 ng
RT: 3.631 min Scan# 118
Delta R.T. -0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion: 42 Resp: 256777

Ion	Ratio	Lower	Upper
42	100		
74	121.7	107.0	160.4
44	6.4	6.2	9.4



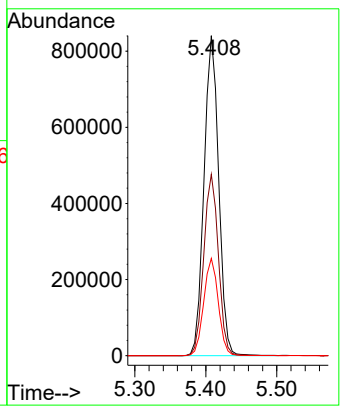


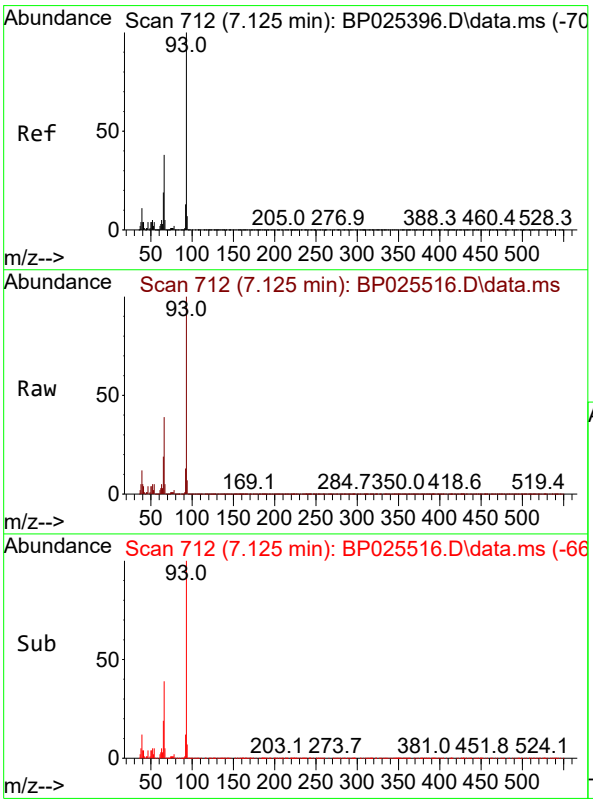
#5
2-Fluorophenol
Concen: 102.187 ng
RT: 5.408 min Scan# 4
Delta R.T. 0.000 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Instrument :
BNA_P
ClientSampleId :
22BP-WMS

Tgt Ion:112 Resp: 1211281

Ion	Ratio	Lower	Upper
112	100		
64	56.6	43.8	65.8
63	30.4	22.7	34.1

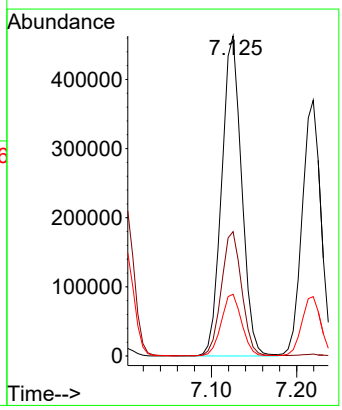


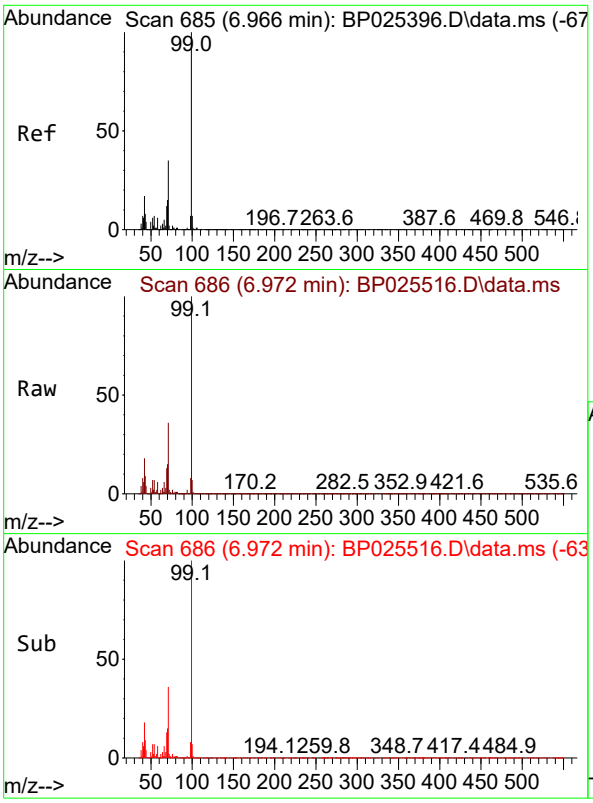


#6
Aniline
Concen: 36.745 ng
RT: 7.125 min Scan# 712
Delta R.T. 0.000 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion: 93 Resp: 752387

Ion	Ratio	Lower	Upper
93	100		
66	38.8	30.4	45.6
65	19.3	15.3	22.9



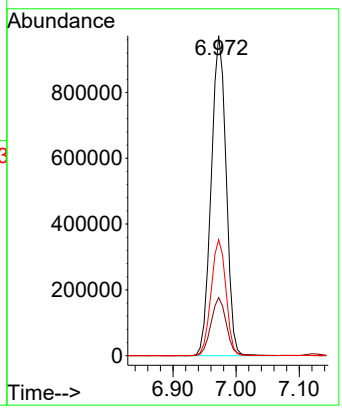


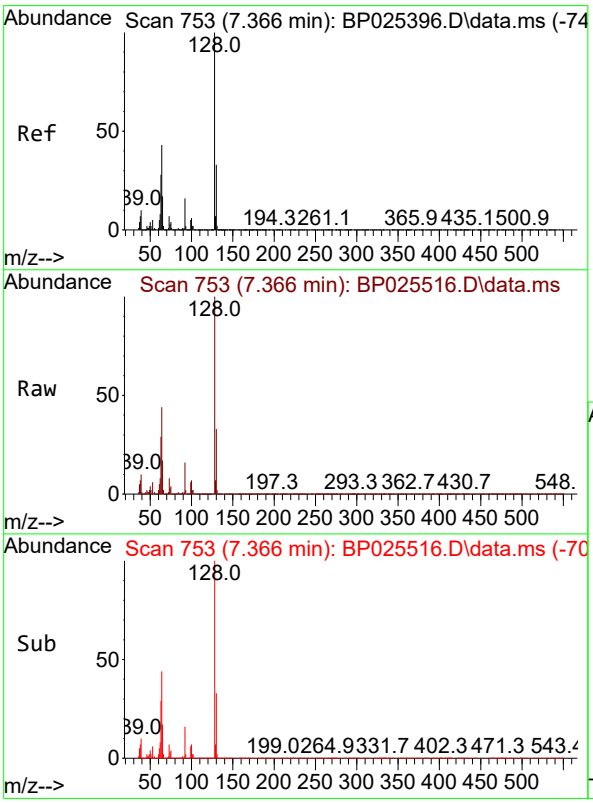
#7
Phenol-d6
Concen: 104.735 ng
RT: 6.972 min Scan# 6
Delta R.T. 0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Instrument :
BNA_P
ClientSampleId :
22BP-WMS

Tgt Ion: 99 Resp: 1591692

Ion	Ratio	Lower	Upper
99	100		
42	18.2	13.7	20.5
71	36.2	28.2	42.4

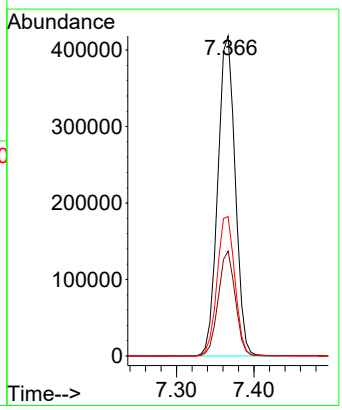


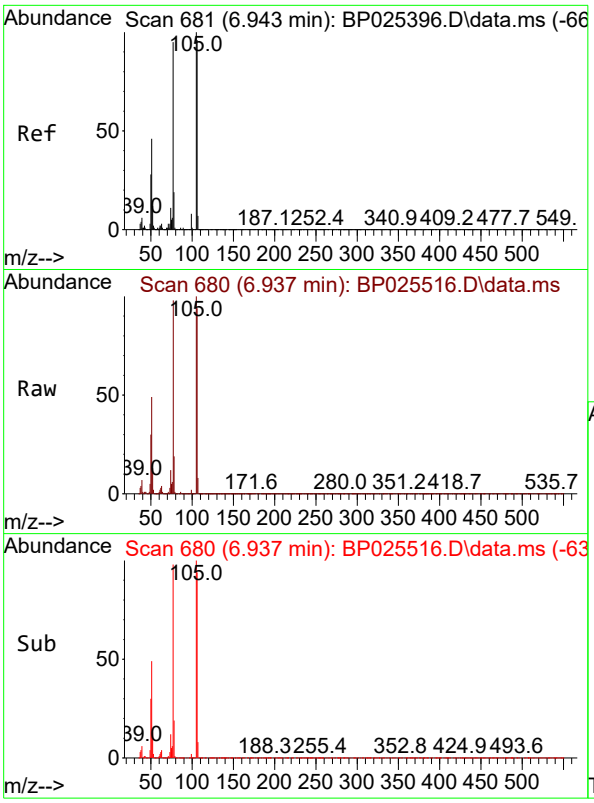


#8
2-Chlorophenol
Concen: 48.782 ng
RT: 7.366 min Scan# 753
Delta R.T. 0.000 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:128 Resp: 652515

Ion	Ratio	Lower	Upper
128	100		
130	32.7	12.6	52.6
64	43.6	23.4	63.4



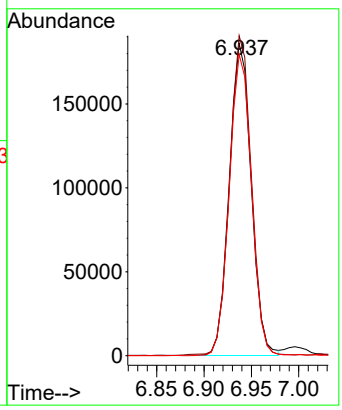


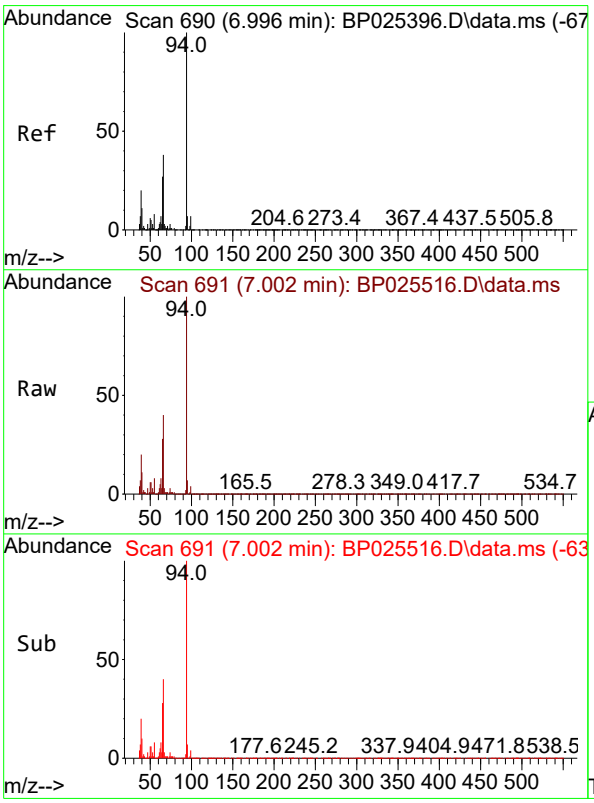
#9
Benzaldehyde
Concen: 28.174 ng
RT: 6.937 min Scan# 6
Delta R.T. -0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Instrument :
BNA_P
ClientSampleId :
22BP-WMS

Tgt Ion: 77 Resp: 299983

Ion	Ratio	Lower	Upper
77	100		
105	102.5	84.8	124.8
106	96.5	80.5	120.5

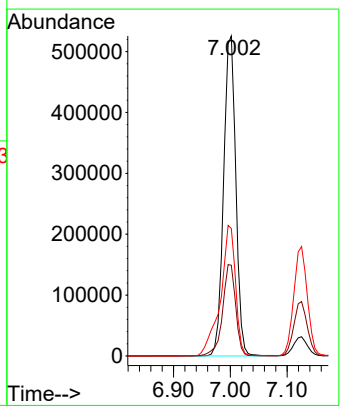


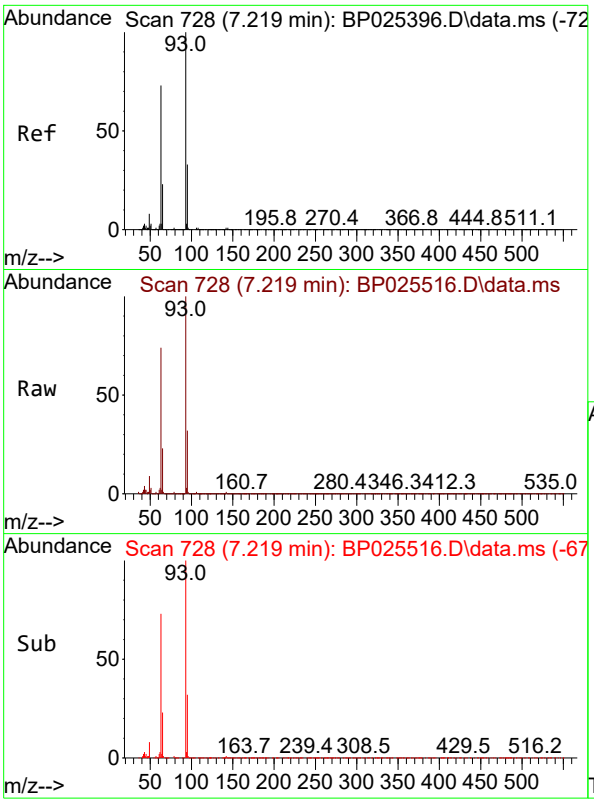


#10
Phenol
Concen: 49.471 ng
RT: 7.002 min Scan# 691
Delta R.T. 0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion: 94 Resp: 788903

Ion	Ratio	Lower	Upper
94	100		
65	28.3	6.8	46.8
66	39.9	18.2	58.2



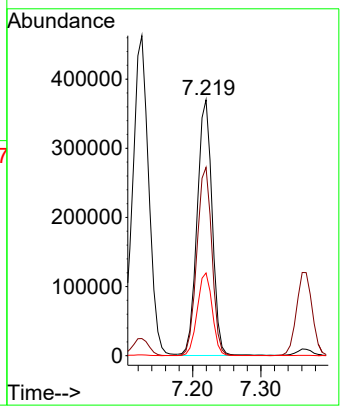


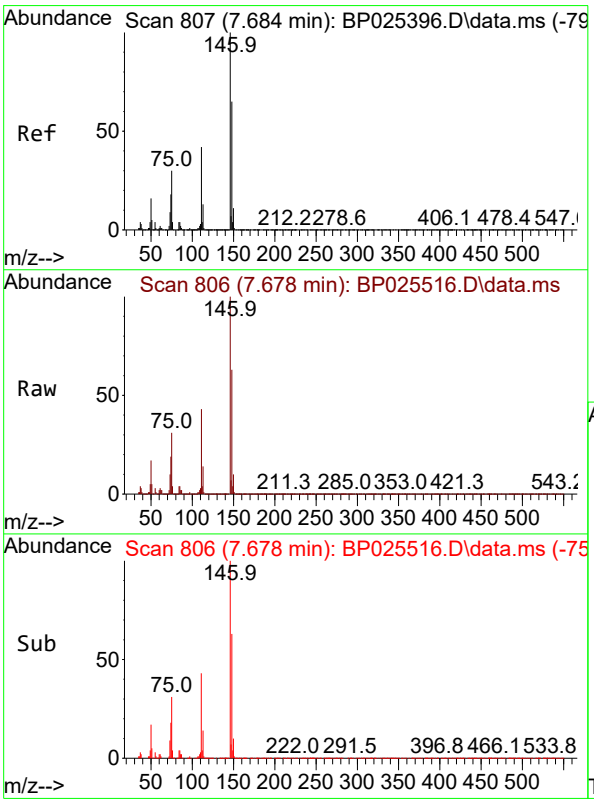
#11
bis(2-Chloroethyl)ether
Concen: 45.459 ng
RT: 7.219 min Scan# 7
Delta R.T. 0.000 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Instrument :
BNA_P
ClientSampleId :
22BP-WMS

Tgt Ion: 93 Resp: 565023

Ion	Ratio	Lower	Upper
93	100		
63	73.6	52.6	92.6
95	32.3	12.7	52.7

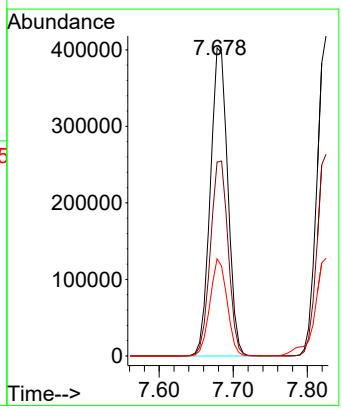


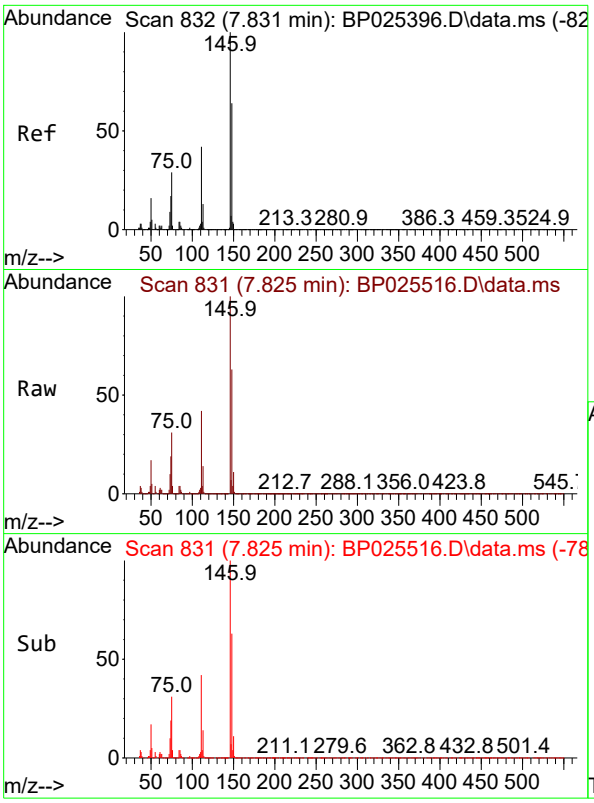


#12
1,3-Dichlorobenzene
Concen: 44.648 ng
RT: 7.678 min Scan# 806
Delta R.T. -0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:146 Resp: 658534

Ion	Ratio	Lower	Upper
146	100		
148	62.9	51.9	77.9
75	31.5	23.7	35.5



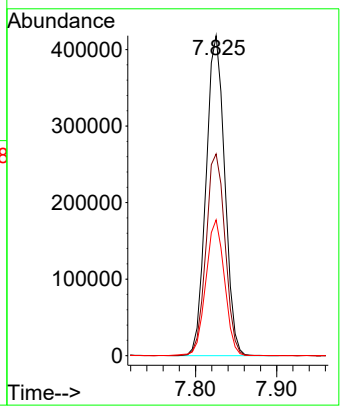


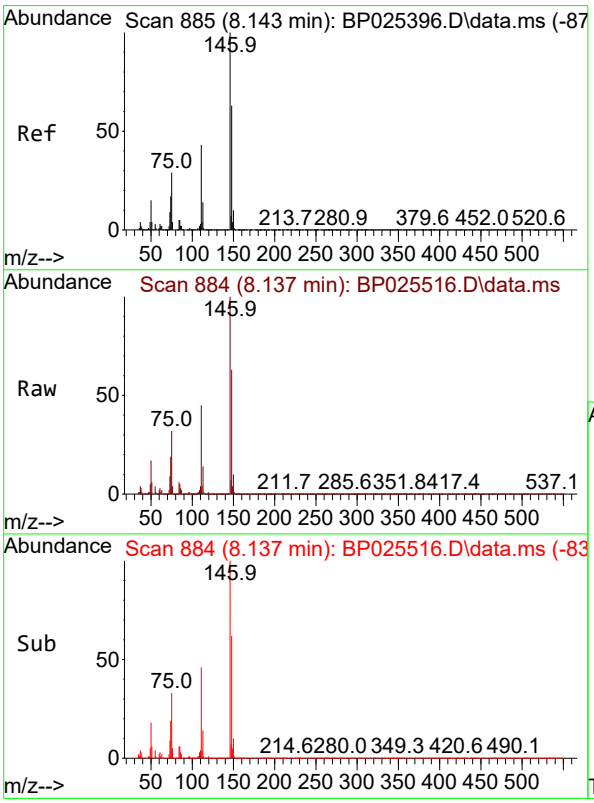
#13
1,4-Dichlorobenzene
Concen: 44.192 ng
RT: 7.825 min Scan# 8
Delta R.T. -0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Instrument :
BNA_P
ClientSampleId :
22BP-WMS

Tgt Ion:146 Resp: 666221

Ion	Ratio	Lower	Upper
146	100		
148	63.0	51.6	77.4
111	42.5	33.4	50.0

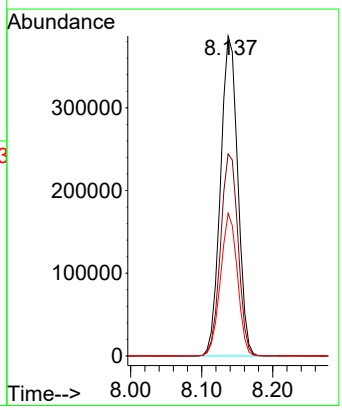


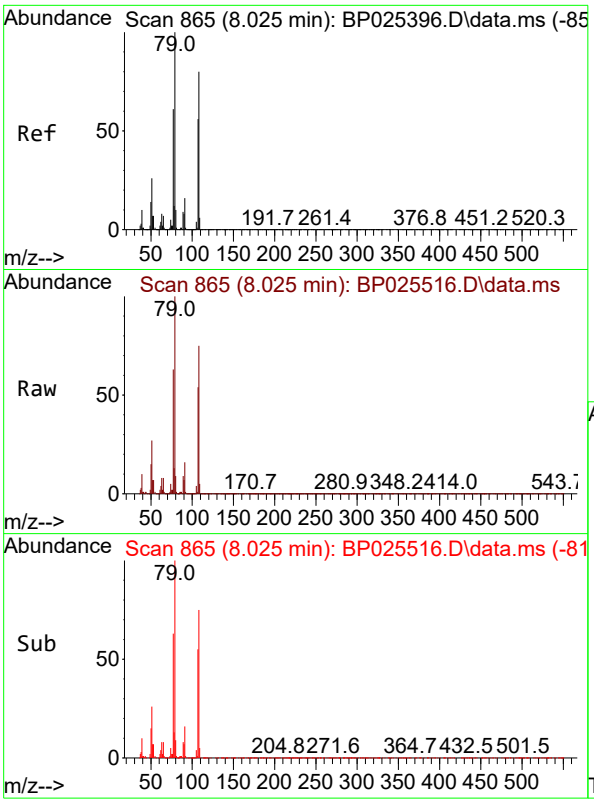


#14
1,2-Dichlorobenzene
Concen: 44.544 ng
RT: 8.137 min Scan# 884
Delta R.T. -0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:146 Resp: 650052

Ion	Ratio	Lower	Upper
146	100		
148	63.2	50.4	75.6
111	44.6	34.5	51.7



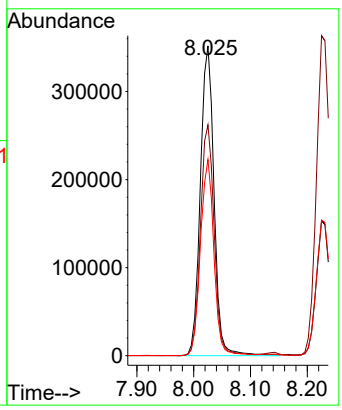


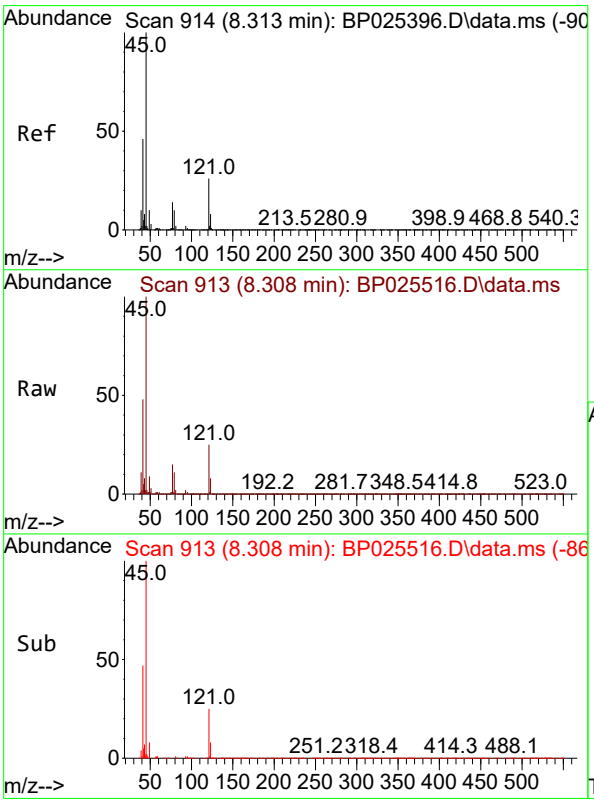
#15
Benzyl Alcohol
Concen: 48.572 ng
RT: 8.025 min Scan# 8
Delta R.T. 0.000 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Instrument :
BNA_P
ClientSampleId :
22BP-WMS

Tgt Ion: 79 Resp: 586521

Ion	Ratio	Lower	Upper
79	100		
108	74.5	63.8	95.6
77	63.3	49.0	73.4

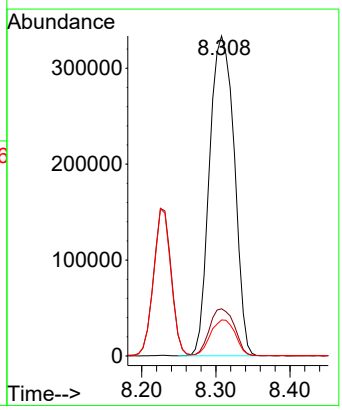


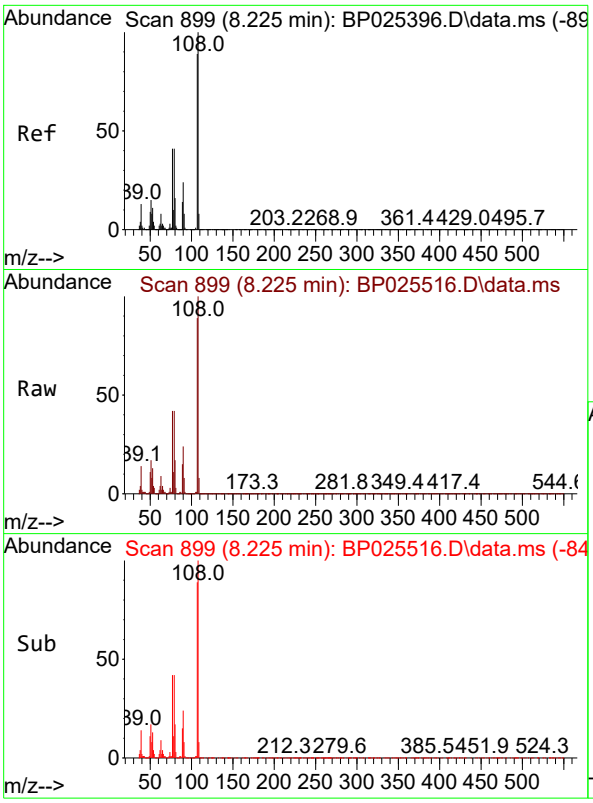


#16
2,2'-oxybis(1-Chloropropane)
Concen: 46.392 ng
RT: 8.308 min Scan# 913
Delta R.T. -0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion: 45 Resp: 772444

Ion	Ratio	Lower	Upper
45	100		
77	14.8	0.0	35.3
79	11.2	0.0	31.8



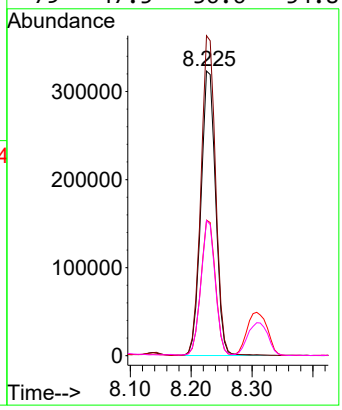


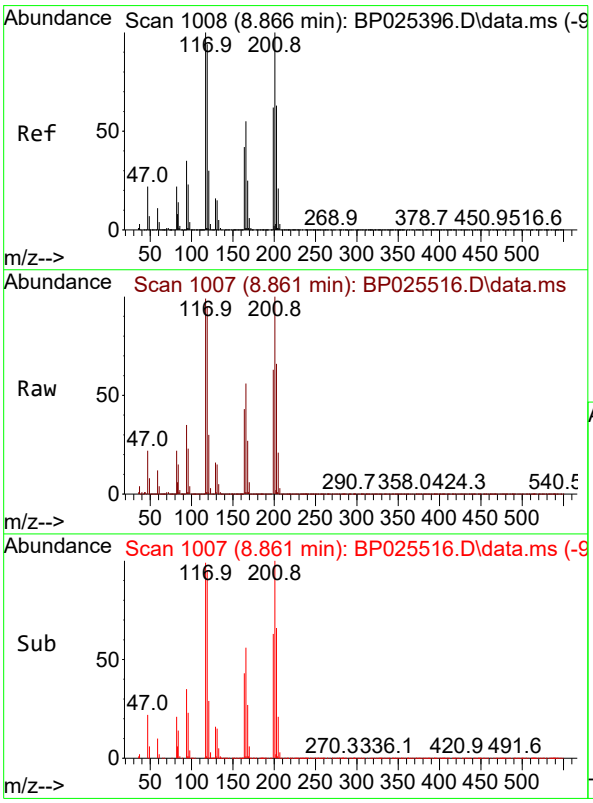
#17
2-Methylphenol
Concen: 48.875 ng
RT: 8.225 min Scan# 8
Delta R.T. 0.000 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Instrument :
BNA_P
ClientSampleId :
22BP-WMS

Tgt Ion:107 Resp: 541309

Ion	Ratio	Lower	Upper
107	100		
108	112.4	89.4	134.0
77	47.6	36.3	54.5
79	47.5	36.6	54.8

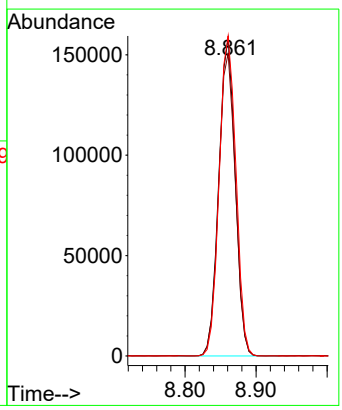


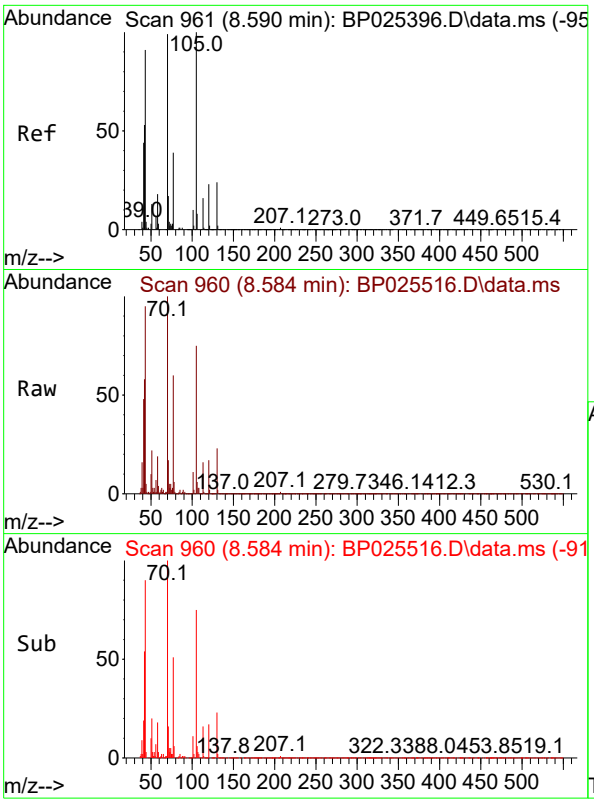


#18
Hexachloroethane
Concen: 45.754 ng
RT: 8.861 min Scan# 1007
Delta R.T. -0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:117 Resp: 253613

Ion	Ratio	Lower	Upper
117	100		
119	95.3	75.1	112.7
201	100.8	80.1	120.1



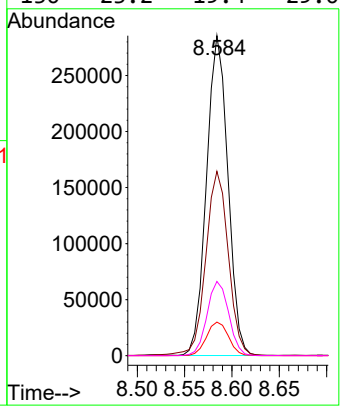


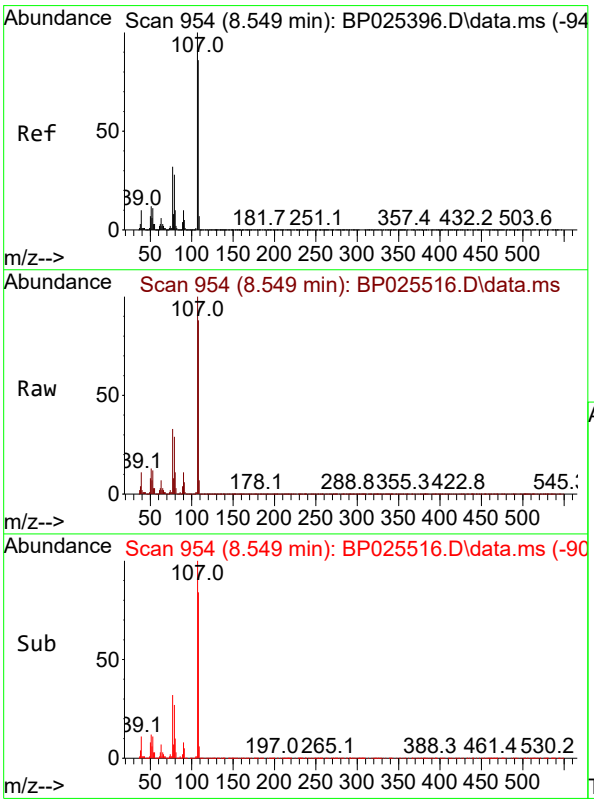
#19
n-Nitroso-di-n-propylamine
Concen: 44.440 ng
RT: 8.584 min Scan# 9
Delta R.T. -0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Instrument :
BNA_P
ClientSampleId :
22BP-WMS

Tgt Ion: 70 Resp: 447356

Ion	Ratio	Lower	Upper
70	100		
42	57.6	43.8	65.6
101	10.5	8.5	12.7
130	23.2	19.4	29.0

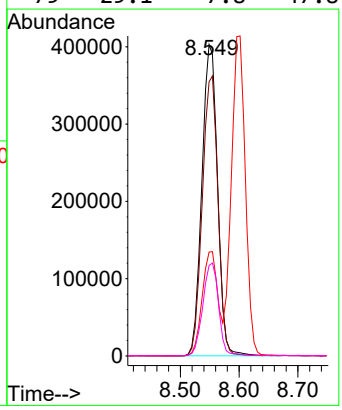


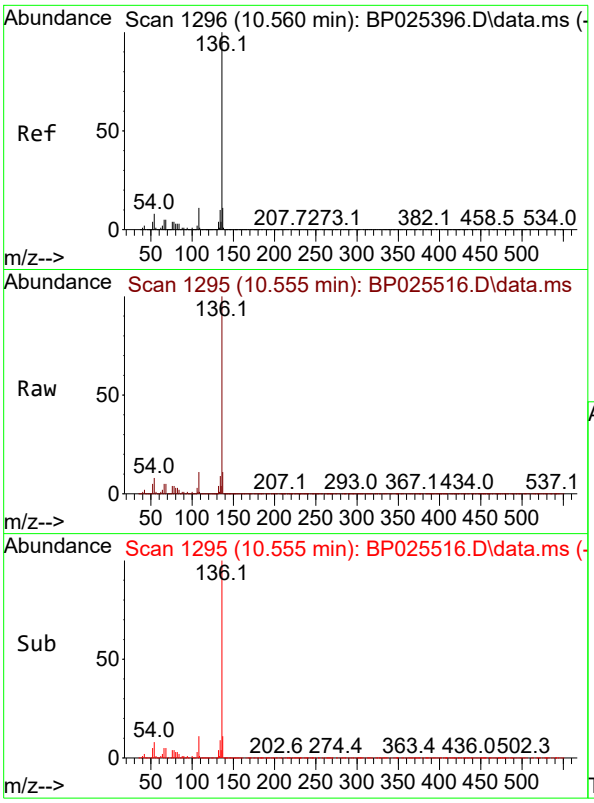


#20
3+4-Methylphenols
Concen: 48.669 ng
RT: 8.549 min Scan# 954
Delta R.T. 0.000 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:107 Resp: 747172

Ion	Ratio	Lower	Upper
107	100		
108	88.0	66.3	106.3
77	33.3	12.3	52.3
79	29.1	7.8	47.8



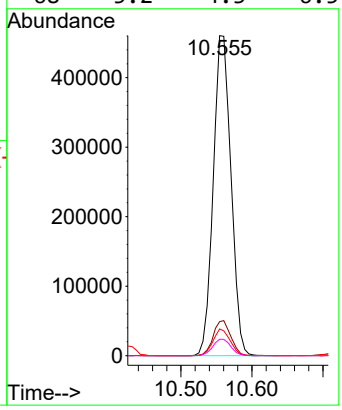


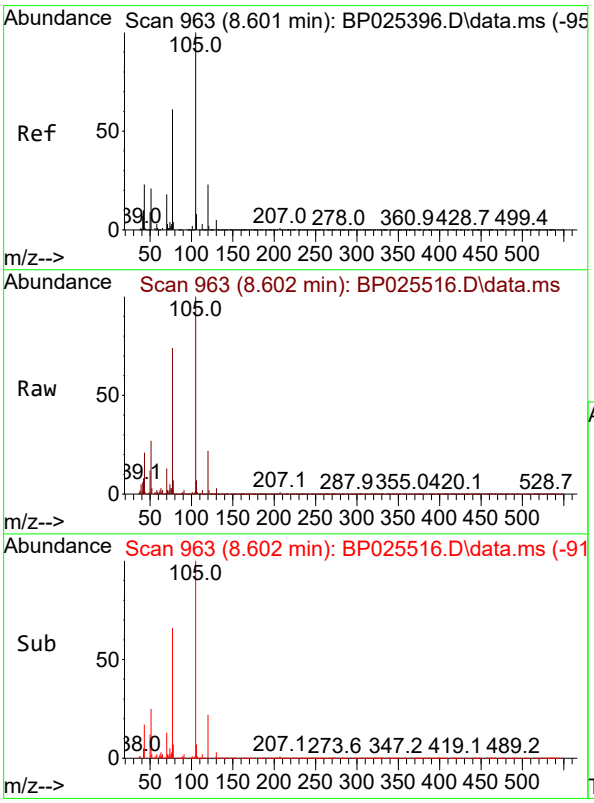
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.555 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Instrument :
BNA_P
ClientSampleId :
22BP-WMS

Tgt Ion:136 Resp: 796434

Ion	Ratio	Lower	Upper
136	100		
137	10.7	9.2	13.8
54	8.4	6.0	9.0
68	5.2	4.3	6.5

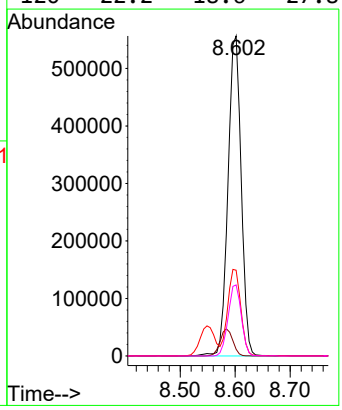


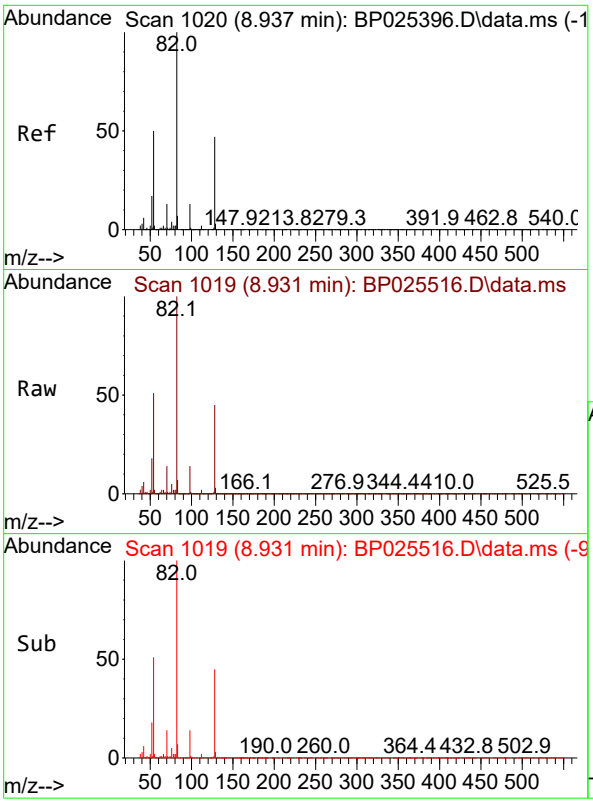


#22
Acetophenone
Concen: 46.348 ng
RT: 8.602 min Scan# 963
Delta R.T. 0.000 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:105 Resp: 925700

Ion	Ratio	Lower	Upper
105	100		
71	2.1	2.6	4.0#
51	26.8	20.6	30.8
120	22.2	18.6	27.8



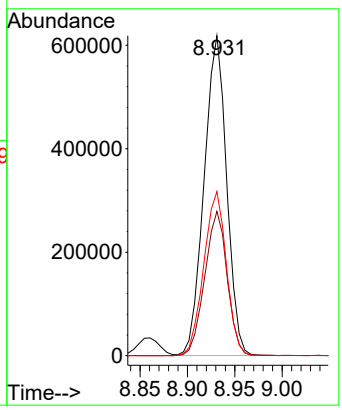


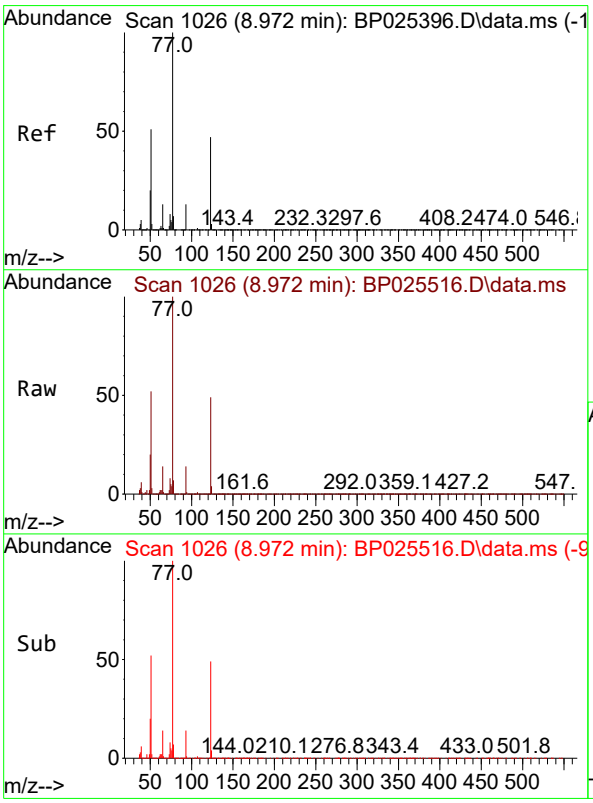
#23
Nitrobenzene-d5
Concen: 65.037 ng
RT: 8.931 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Instrument :
BNA_P
ClientSampleId :
22BP-WMS

Tgt Ion: 82 Resp: 1023958

Ion	Ratio	Lower	Upper
82	100		
128	45.1	37.7	56.5
54	51.3	39.8	59.6

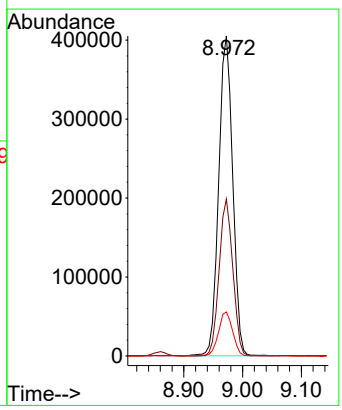


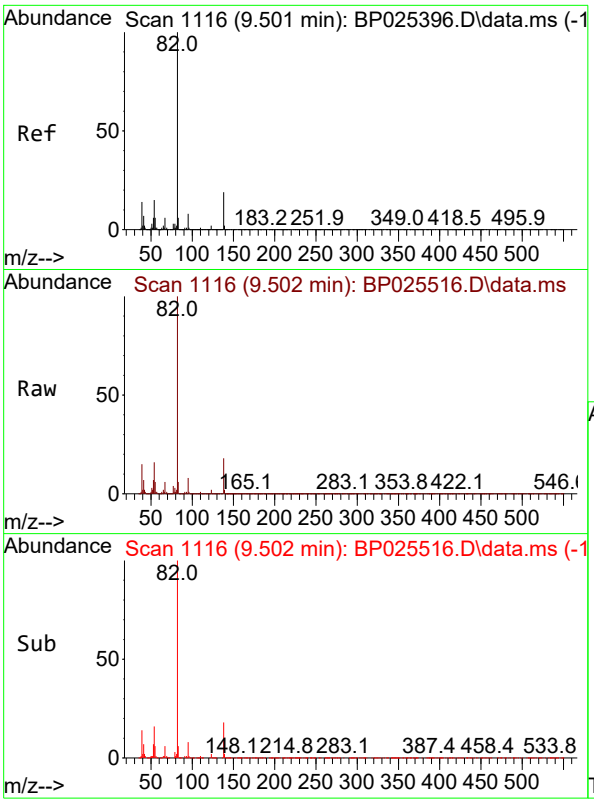


#24
Nitrobenzene
Concen: 47.583 ng
RT: 8.972 min Scan# 1026
Delta R.T. 0.000 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion: 77 Resp: 669544

Ion	Ratio	Lower	Upper
77	100		
123	49.1	38.6	58.0
65	13.8	10.6	15.8



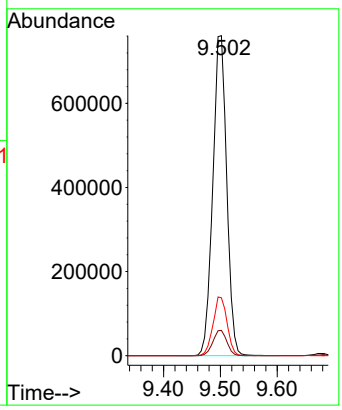


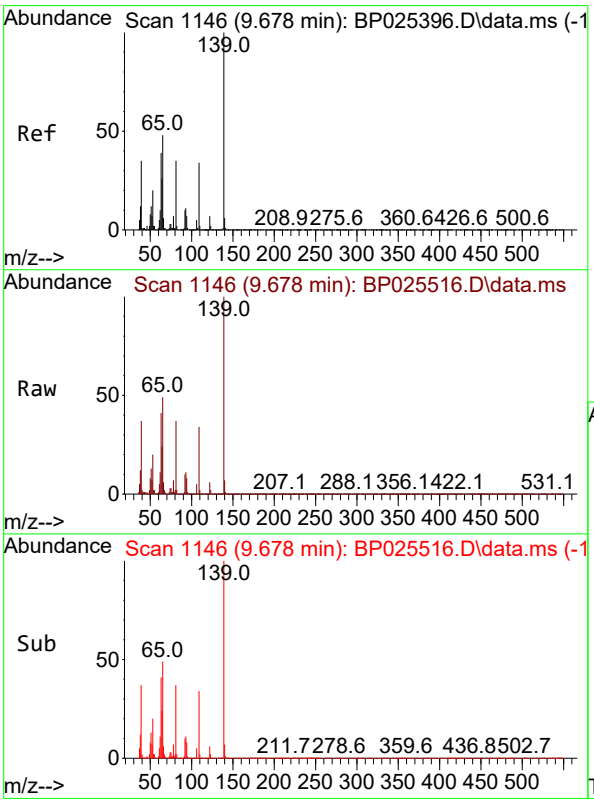
#25
Isophorone
Concen: 46.346 ng
RT: 9.502 min Scan# 11
Delta R.T. 0.000 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Instrument :
BNA_P
ClientSampleId :
22BP-WMS

Tgt Ion: 82 Resp: 1291341

Ion	Ratio	Lower	Upper
82	100		
95	7.9	6.4	9.6
138	18.1	15.4	23.0

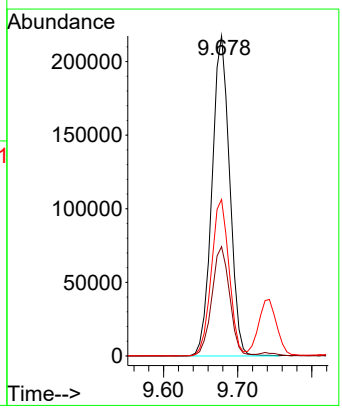


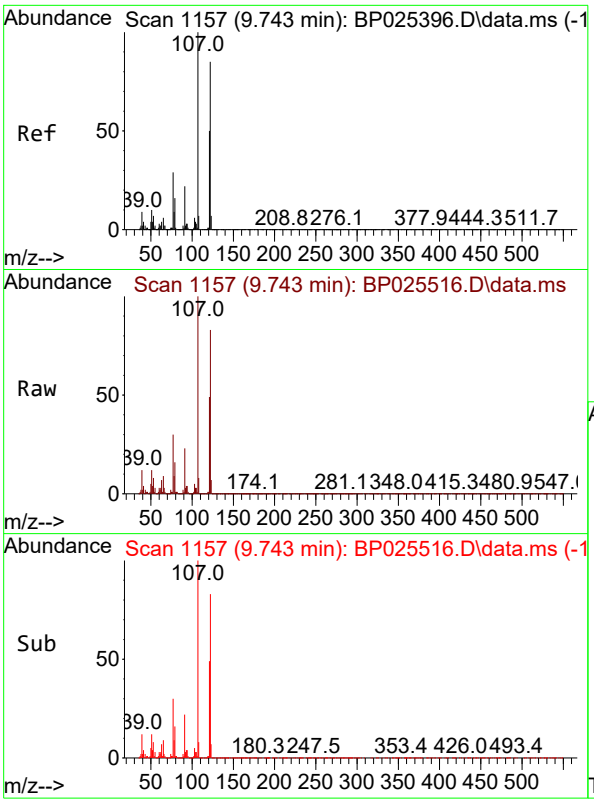


#26
2-Nitrophenol
Concen: 49.729 ng
RT: 9.678 min Scan# 1146
Delta R.T. 0.000 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:139 Resp: 359110

Ion	Ratio	Lower	Upper
139	100		
109	34.2	26.9	40.3
65	48.9	38.3	57.5



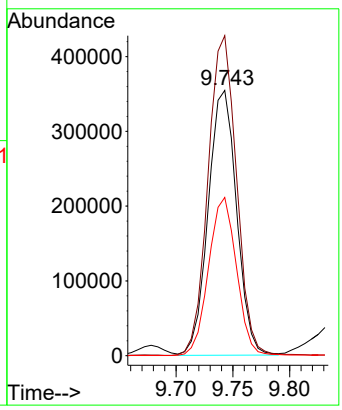


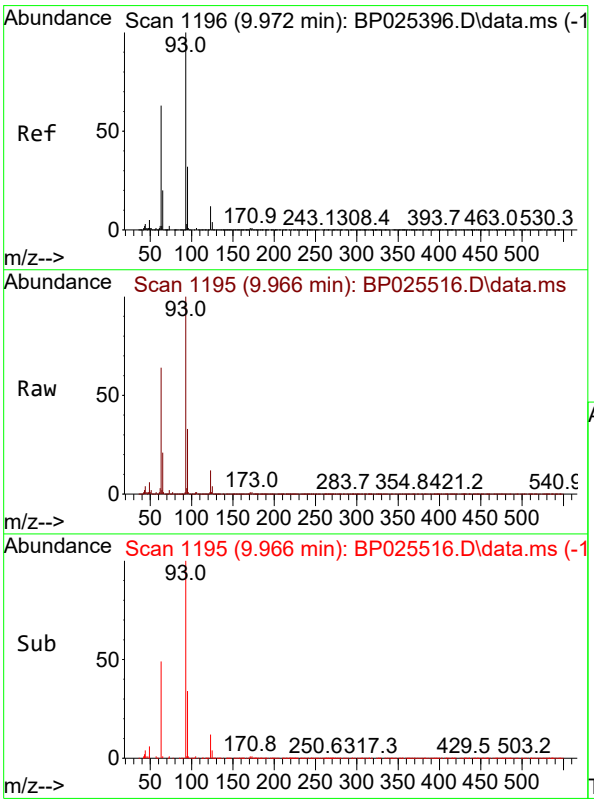
#27
2,4-Dimethylphenol
Concen: 49.605 ng
RT: 9.743 min Scan# 11
Delta R.T. 0.000 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Instrument :
BNA_P
ClientSampleId :
22BP-WMS

Tgt Ion:122 Resp: 616027

Ion	Ratio	Lower	Upper
122	100		
107	120.6	93.7	140.5
121	59.7	46.6	69.8

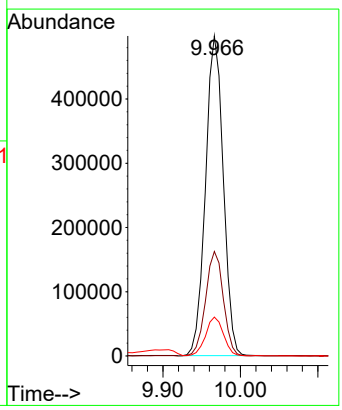


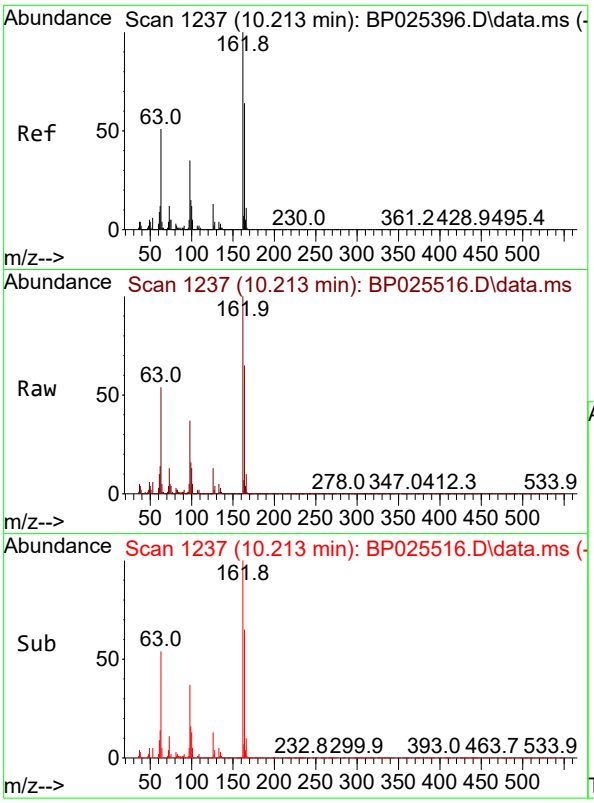


#28
bis(2-Chloroethoxy)methane
Concen: 47.040 ng
RT: 9.966 min Scan# 1195
Delta R.T. -0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion: 93 Resp: 792282

Ion	Ratio	Lower	Upper
93	100		
95	32.7	25.4	38.0
123	12.2	9.4	14.0



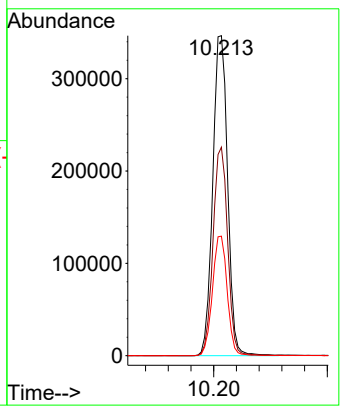


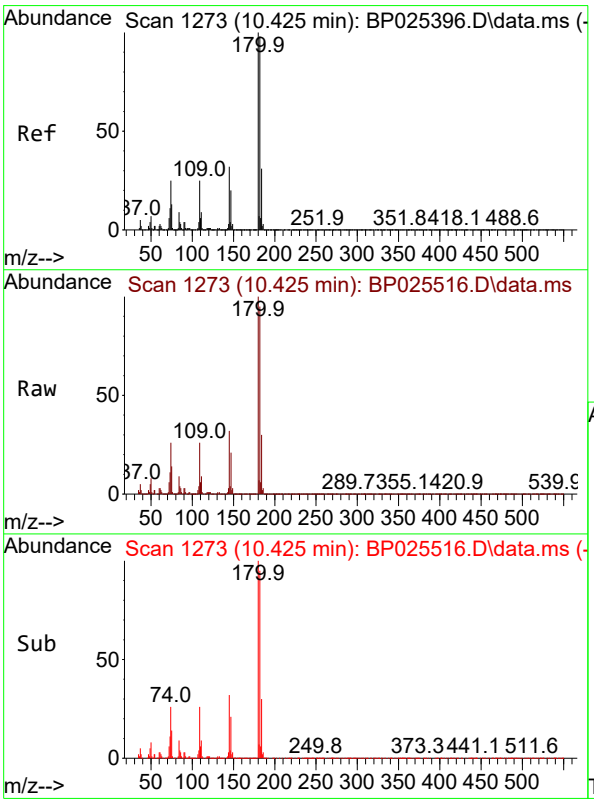
#29
2,4-Dichlorophenol
Concen: 51.032 ng
RT: 10.213 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Instrument :
BNA_P
ClientSampleId :
22BP-WMS

Tgt Ion:162 Resp: 629551

Ion	Ratio	Lower	Upper
162	100		
164	65.2	44.4	84.4
98	37.4	14.9	54.9

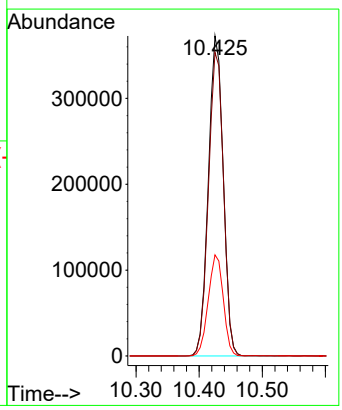


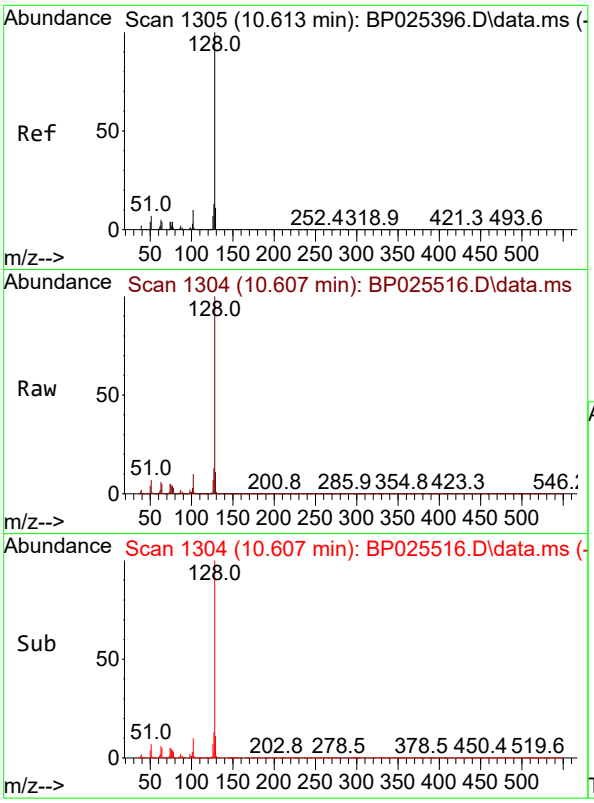


#30
1,2,4-Trichlorobenzene
Concen: 44.974 ng
RT: 10.425 min Scan# 1273
Delta R.T. 0.000 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:180 Resp: 608202

Ion	Ratio	Lower	Upper
180	100		
182	94.8	78.0	117.0
145	31.6	25.9	38.9



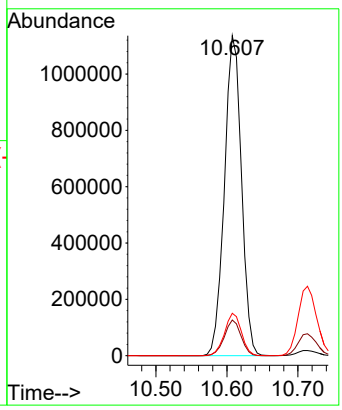


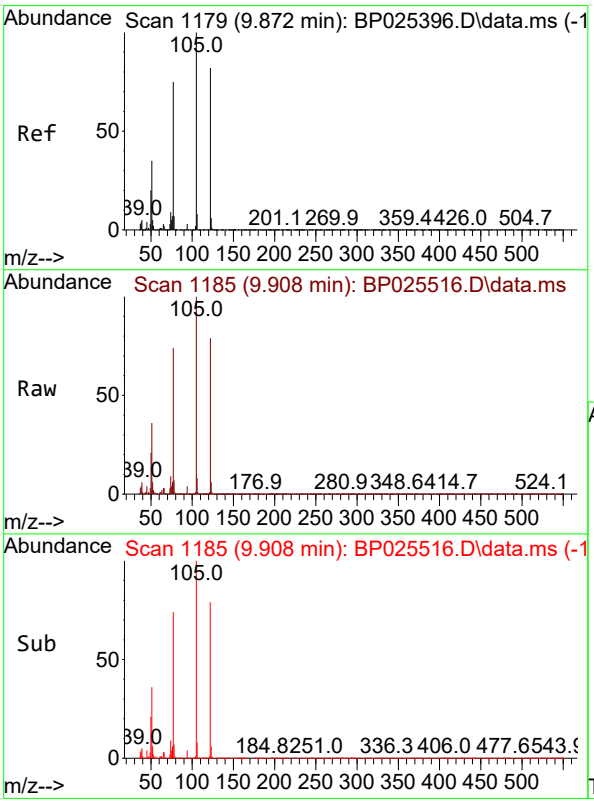
#31
Naphthalene
Concen: 45.625 ng
RT: 10.607 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Instrument :
BNA_P
ClientSampleId :
22BP-WMS

Tgt Ion:128 Resp: 1888650

Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.6	13.0
127	13.3	10.7	16.1

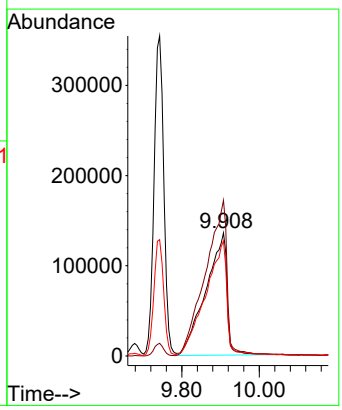


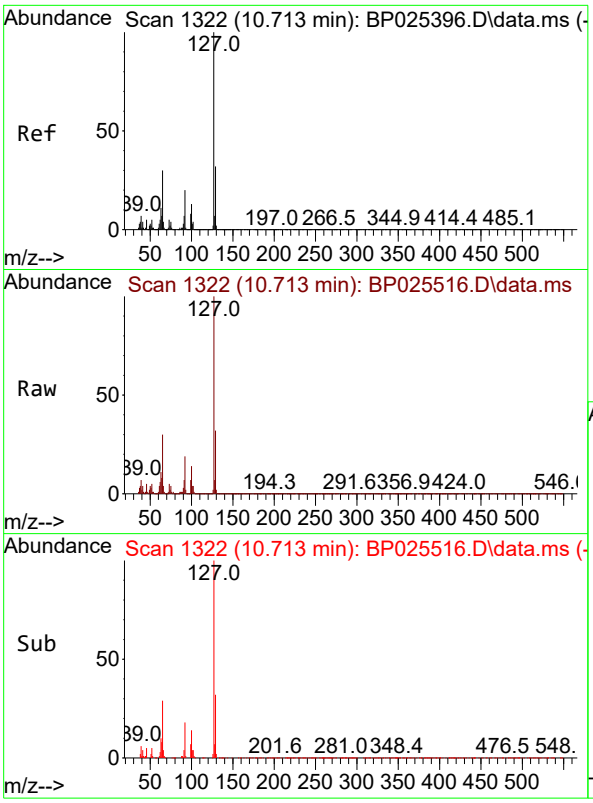


#32
Benzoic acid
Concen: 56.224 ng
RT: 9.908 min Scan# 1185
Delta R.T. 0.035 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:122 Resp: 515480

Ion	Ratio	Lower	Upper
122	100		
105	126.5	100.6	140.6
77	93.3	71.5	111.5



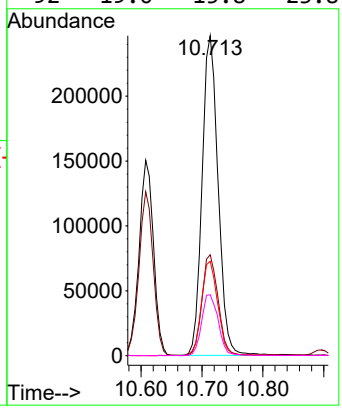


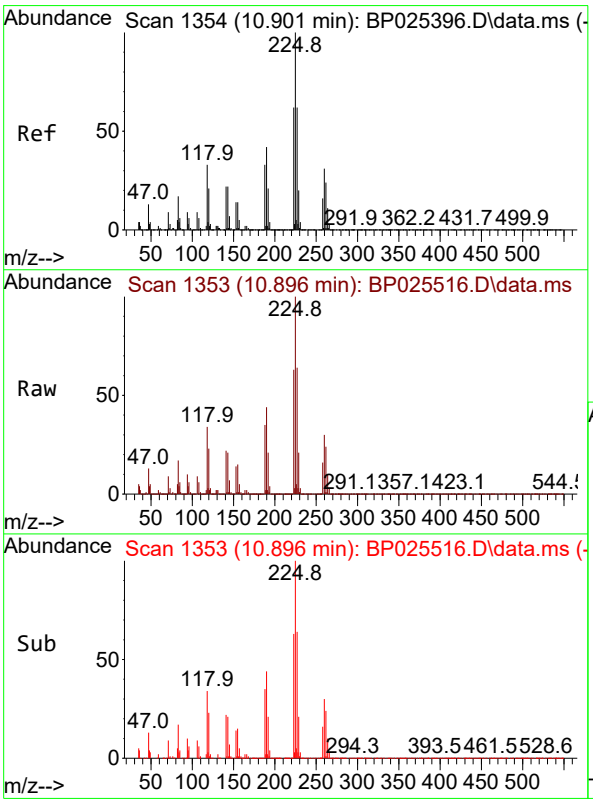
#33
4-Chloroaniline
Concen: 24.662 ng
RT: 10.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Instrument :
BNA_P
ClientSampleId :
22BP-WMS

Tgt Ion:127 Resp: 450951

Ion	Ratio	Lower	Upper
127	100		
129	31.5	25.4	38.2
65	29.5	23.8	35.6
92	19.0	15.8	23.8

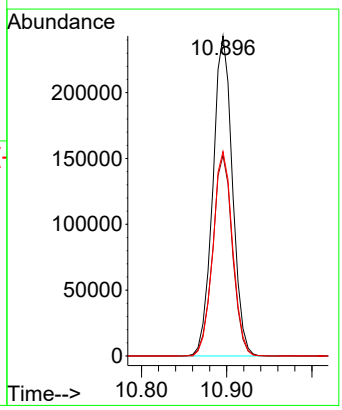


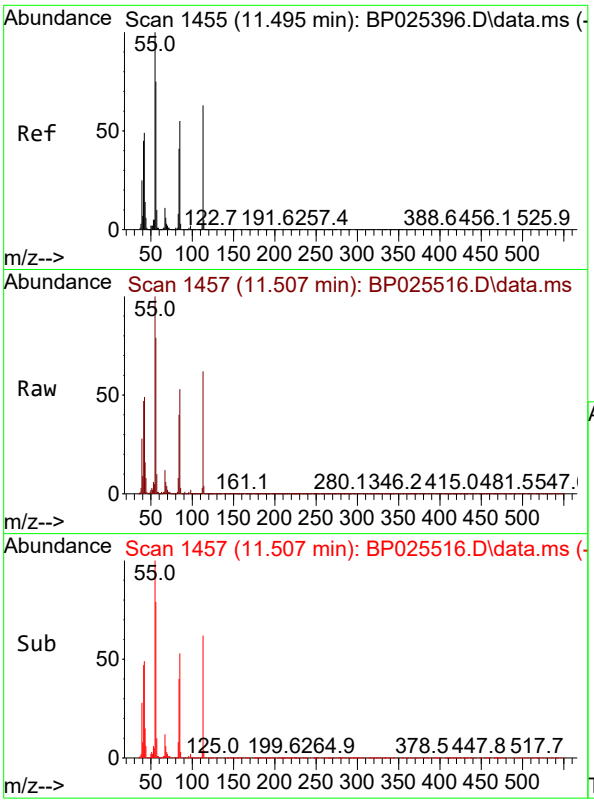


#34
Hexachlorobutadiene
Concen: 46.148 ng
RT: 10.896 min Scan# 1353
Delta R.T. -0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:225 Resp: 388664

Ion	Ratio	Lower	Upper
225	100		
223	62.6	50.0	75.0
227	63.9	49.7	74.5



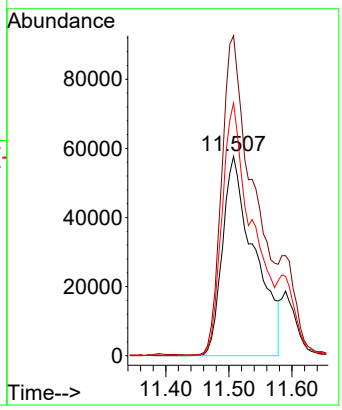


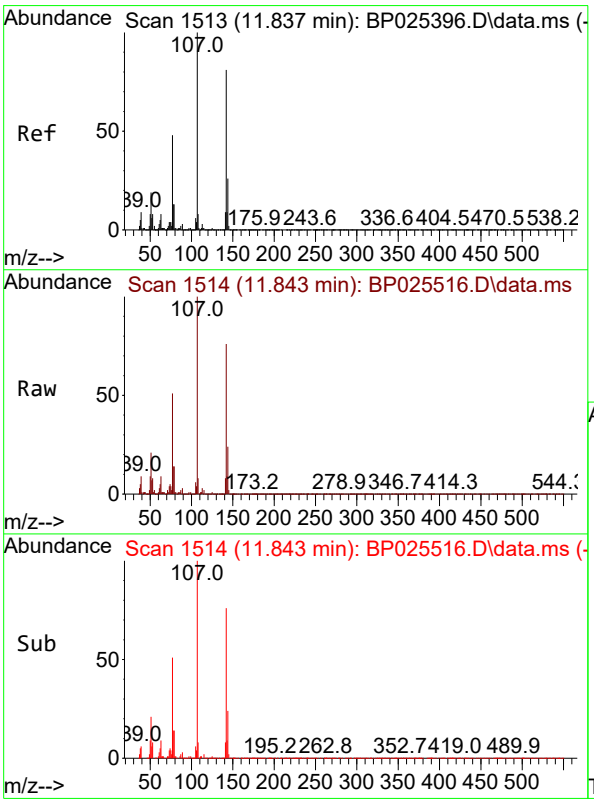
#35
Caprolactam
Concen: 44.716 ng
RT: 11.507 min Scan# 14
Delta R.T. 0.012 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Instrument :
BNA_P
ClientSampleId :
22BP-WMS

Tgt Ion:113 Resp: 202272

Ion	Ratio	Lower	Upper
113	100		
55	160.5	140.0	180.0
56	126.7	100.0	140.0

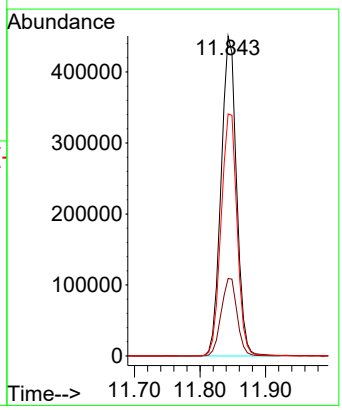


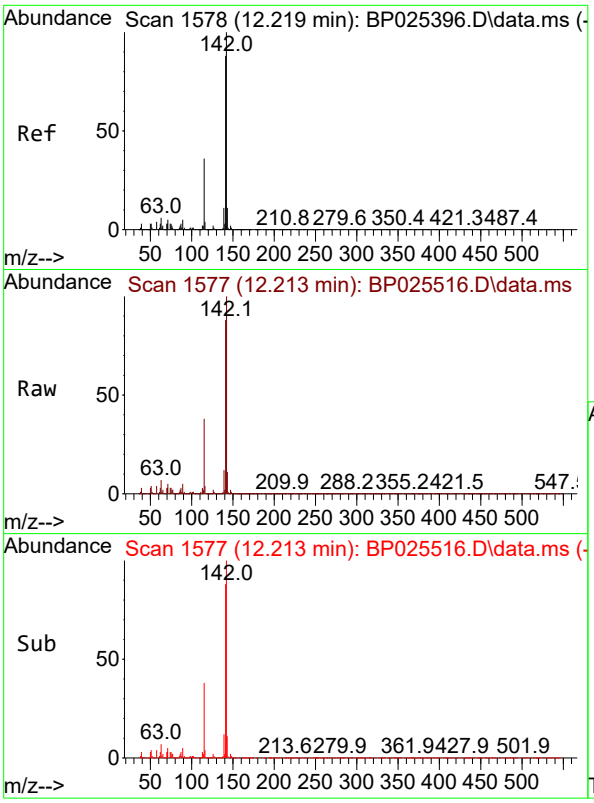


#36
4-Chloro-3-methylphenol
Concen: 51.912 ng
RT: 11.843 min Scan# 1514
Delta R.T. 0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:107 Resp: 734853

Ion	Ratio	Lower	Upper
107	100		
144	24.2	21.0	31.4
142	75.7	64.6	97.0



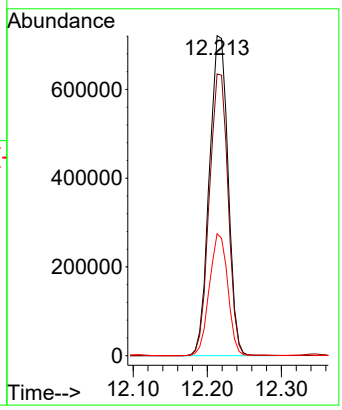


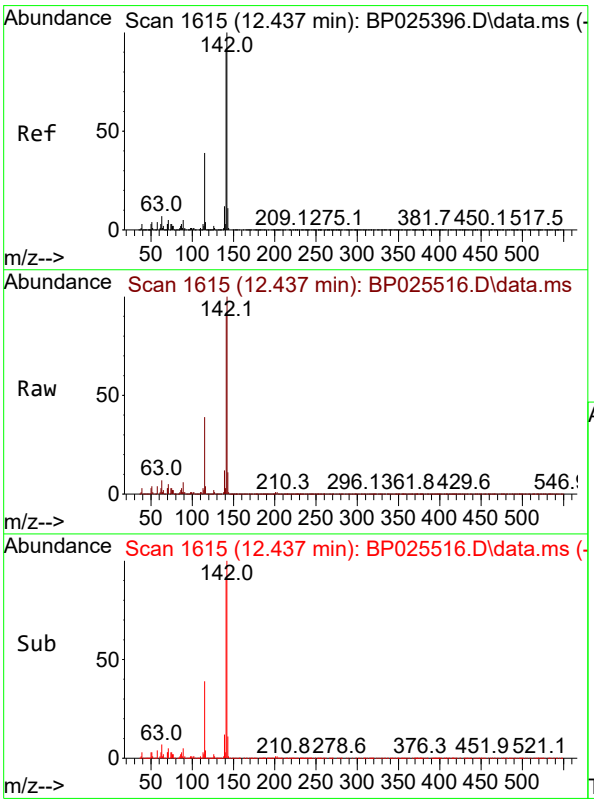
#37
2-Methylnaphthalene
Concen: 46.913 ng
RT: 12.213 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Instrument :
BNA_P
ClientSampleId :
22BP-WMS

Tgt Ion:142 Resp: 1263780

Ion	Ratio	Lower	Upper
142	100		
141	88.1	70.3	105.5
115	38.1	28.9	43.3

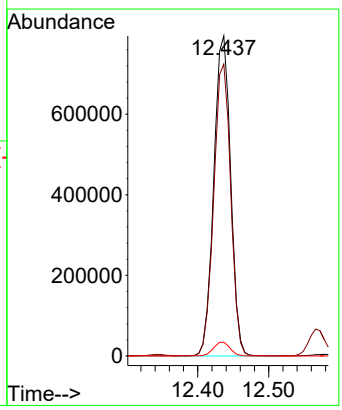


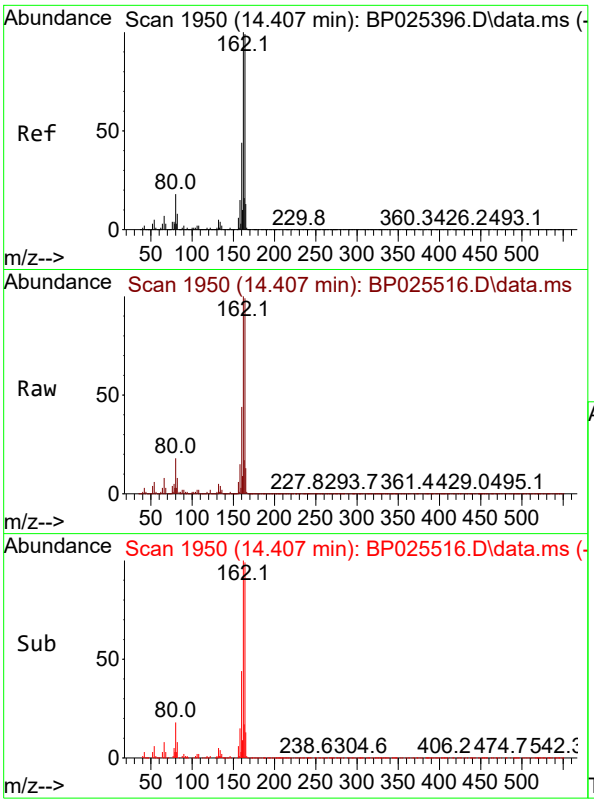


#38
1-Methylnaphthalene
Concen: 45.474 ng
RT: 12.437 min Scan# 1615
Delta R.T. 0.000 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:142 Resp: 1302740

Ion	Ratio	Lower	Upper
142	100		
141	91.3	73.1	109.7
116	4.3	3.2	4.8



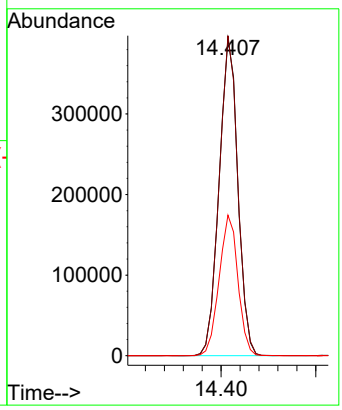


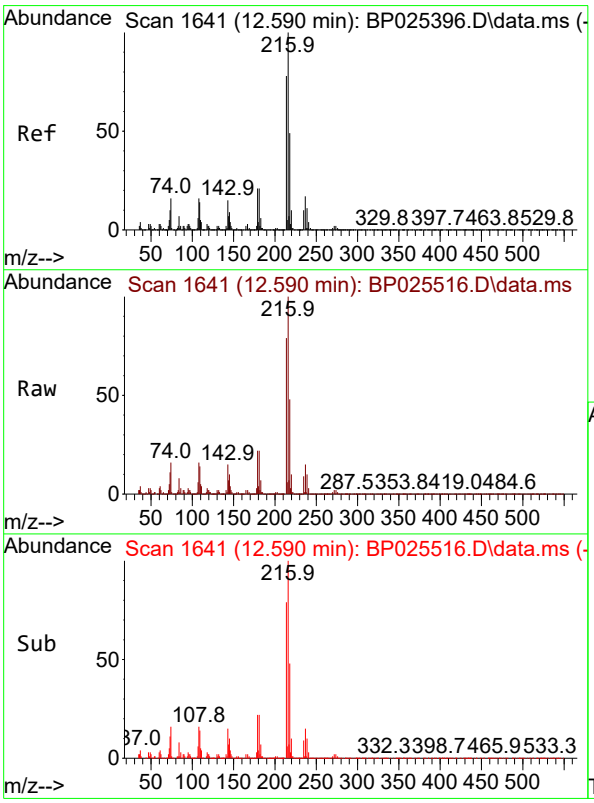
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.407 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Instrument :
BNA_P
ClientSampleId :
22BP-WMS

Tgt Ion:164 Resp: 542391

Ion	Ratio	Lower	Upper
164	100		
162	100.9	81.0	121.6
160	44.3	35.4	53.2

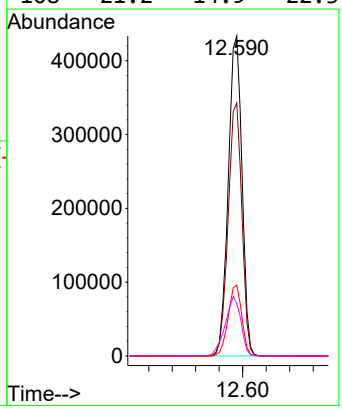


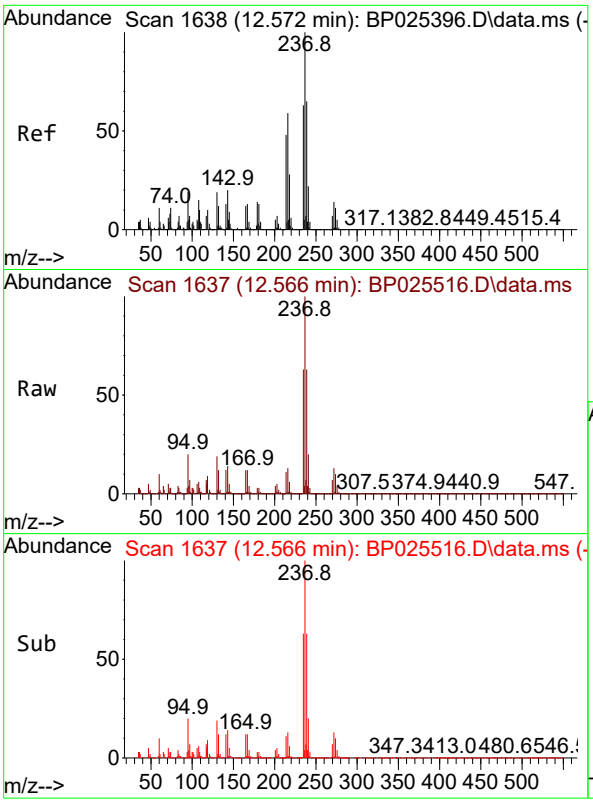


#40
1,2,4,5-Tetrachlorobenzene
Concen: 44.877 ng
RT: 12.590 min Scan# 1641
Delta R.T. 0.000 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:216 Resp: 702998

Ion	Ratio	Lower	Upper
216	100		
214	79.0	63.0	94.4
179	21.9	17.1	25.7
108	21.2	14.9	22.3



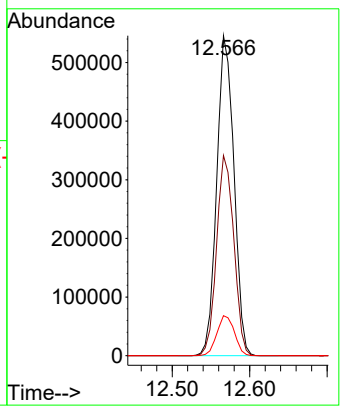


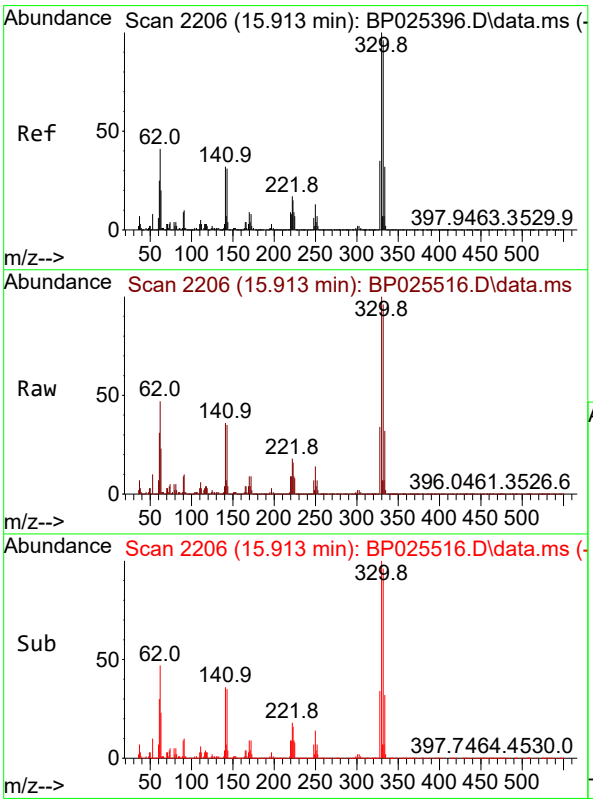
#41
Hexachlorocyclopentadiene
Concen: 89.262 ng
RT: 12.566 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Instrument :
BNA_P
ClientSampleId :
22BP-WMS

Tgt Ion:237 Resp: 844610

Ion	Ratio	Lower	Upper
237	100		
235	62.5	42.7	82.7
272	12.5	0.0	34.0

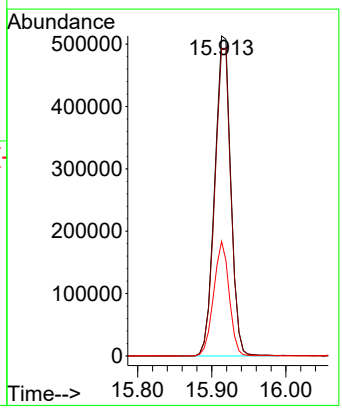


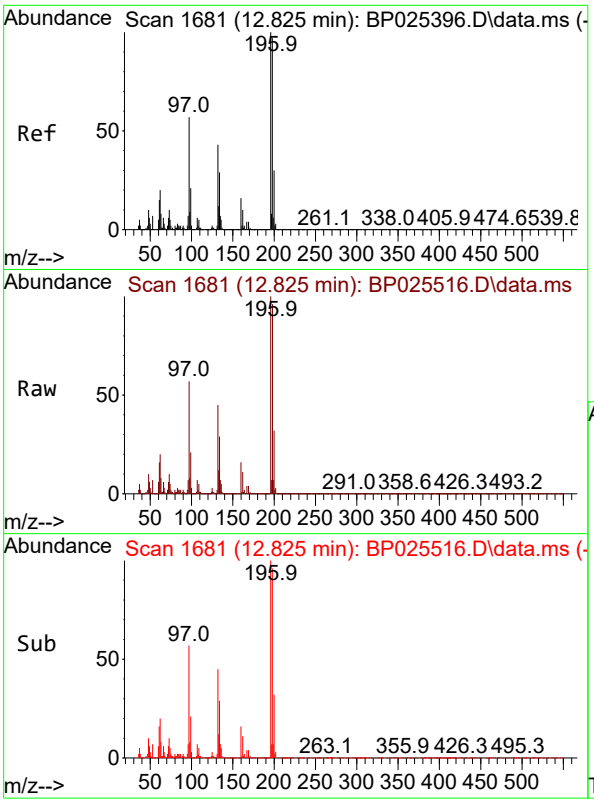


#42
2,4,6-Tribromophenol
Concen: 105.692 ng
RT: 15.913 min Scan# 2206
Delta R.T. 0.000 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:330 Resp: 771618

Ion	Ratio	Lower	Upper
330	100		
332	96.8	77.3	115.9
141	34.6	26.6	39.8



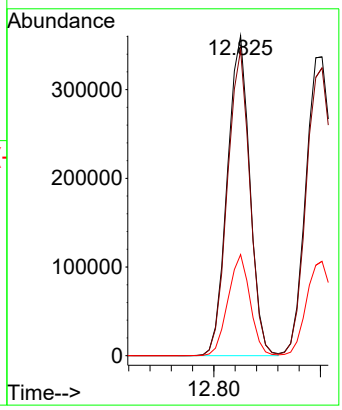


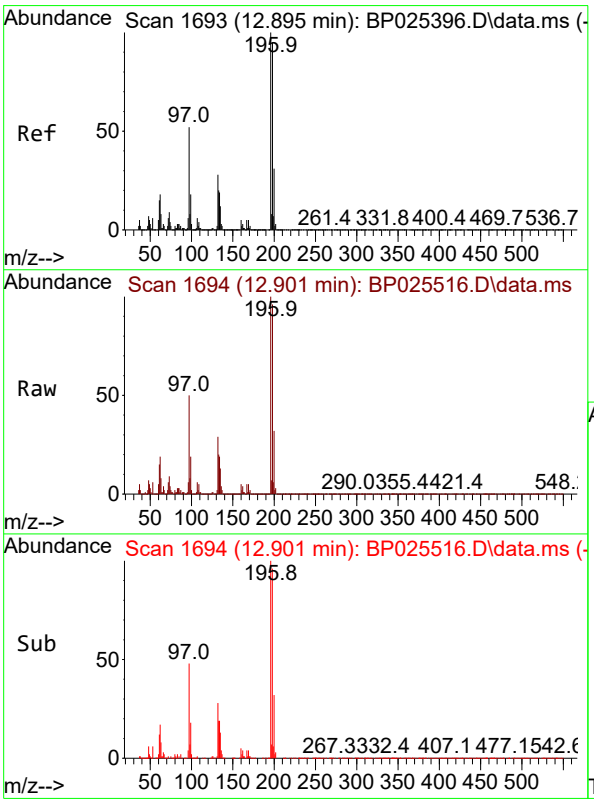
#43
2,4,6-Trichlorophenol
Concen: 50.034 ng
RT: 12.825 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Instrument :
BNA_P
ClientSampleId :
22BP-WMS

Tgt Ion:196 Resp: 529135

Ion	Ratio	Lower	Upper
196	100		
198	95.5	77.2	115.8
200	31.6	23.9	35.9

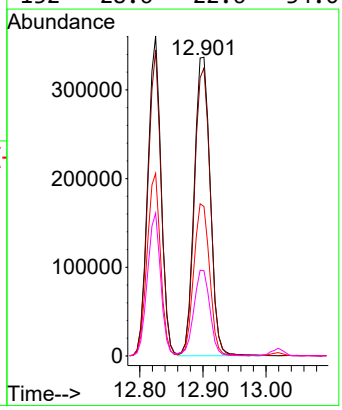


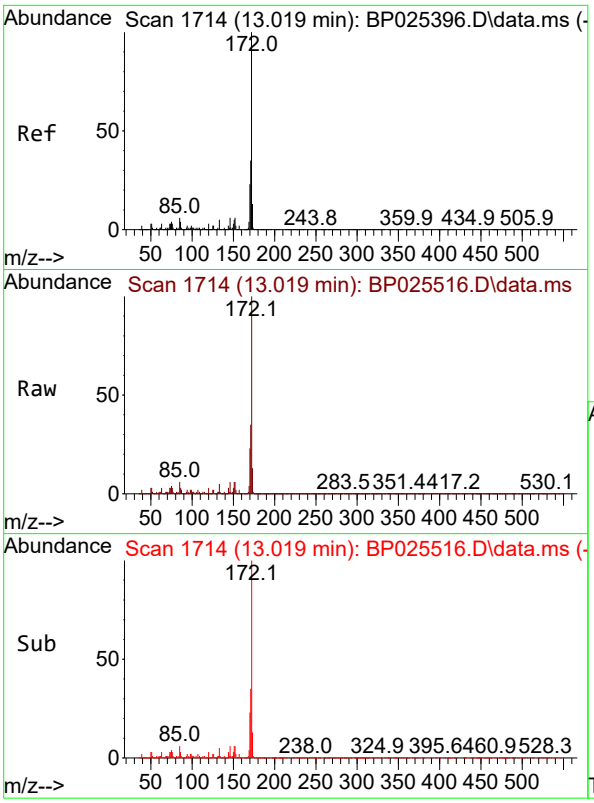


#44
2,4,5-Trichlorophenol
Concen: 51.115 ng
RT: 12.901 min Scan# 1694
Delta R.T. 0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:196 Resp: 592451

Ion	Ratio	Lower	Upper
196	100		
198	96.4	76.2	114.2
97	50.0	41.2	61.8
132	28.6	22.6	34.0



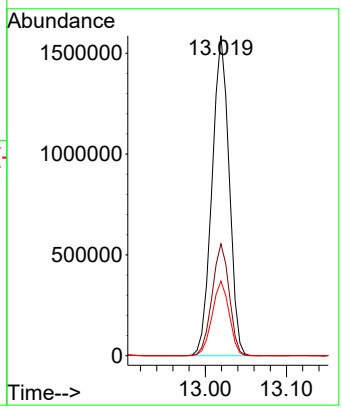


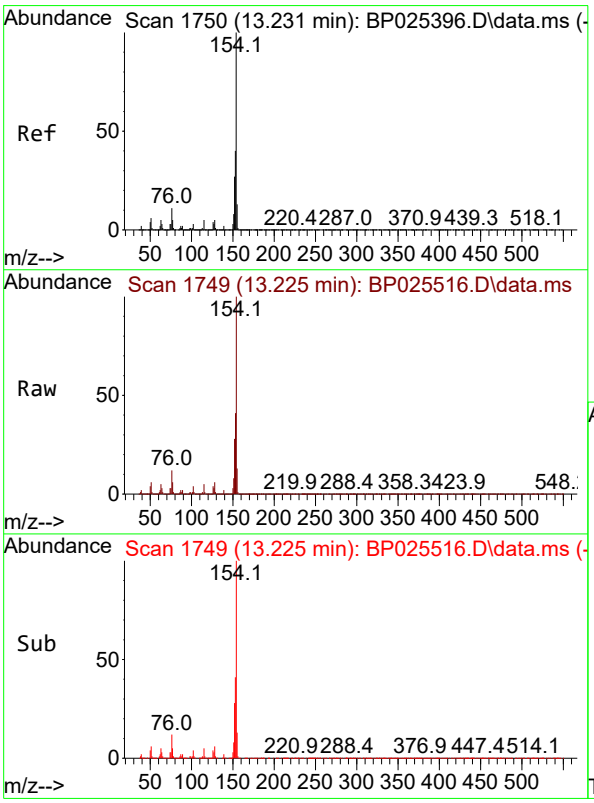
#45
2-Fluorobiphenyl
Concen: 58.451 ng
RT: 13.019 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Instrument :
BNA_P
ClientSampleId :
22BP-WMS

Tgt Ion:172 Resp: 2319713

Ion	Ratio	Lower	Upper
172	100		
171	35.0	28.1	42.1
170	23.3	18.6	28.0

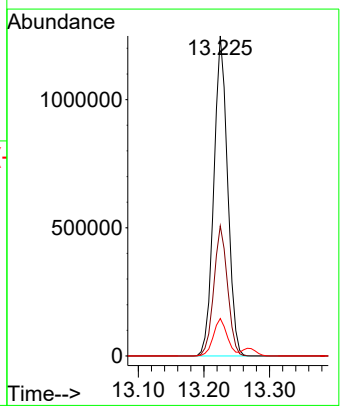


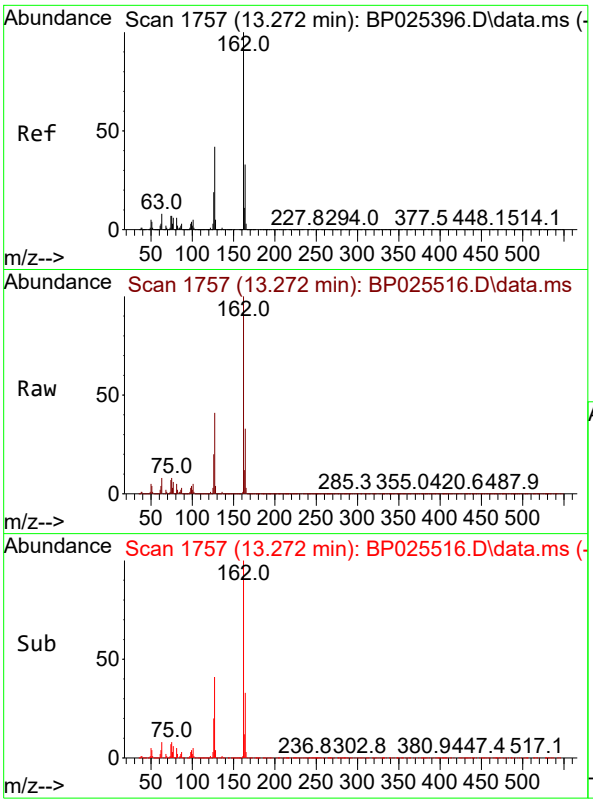


#46
1,1'-Biphenyl
Concen: 46.123 ng
RT: 13.225 min Scan# 1749
Delta R.T. -0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:154 Resp: 1816843

Ion	Ratio	Lower	Upper
154	100		
153	40.7	19.5	59.5
76	11.7	0.0	31.1



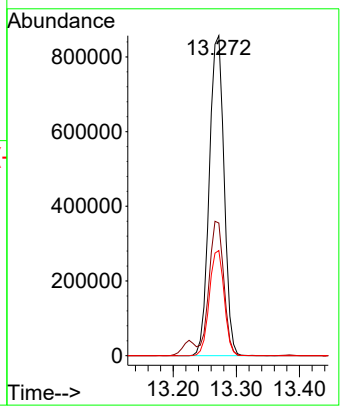


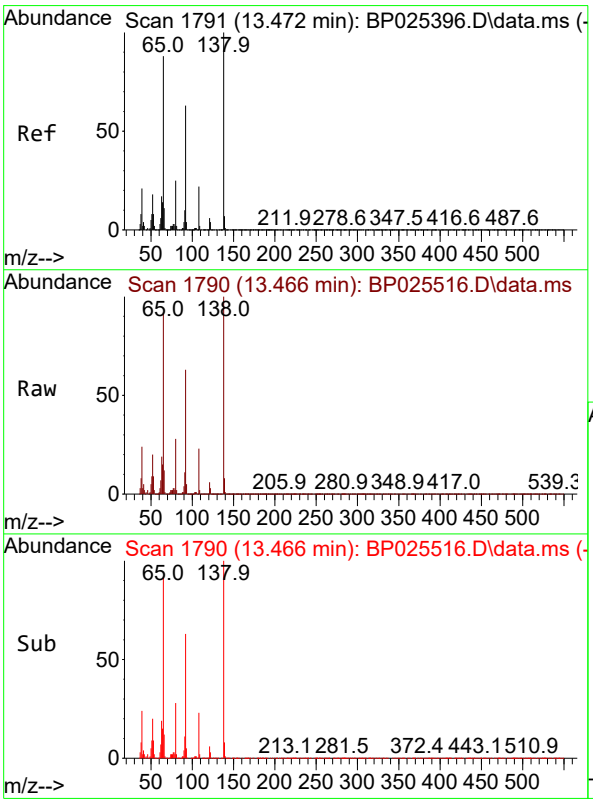
#47
2-Chloronaphthalene
Concen: 45.407 ng
RT: 13.272 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Instrument :
BNA_P
ClientSampleId :
22BP-WMS

Tgt Ion:162 Resp: 1392441

Ion	Ratio	Lower	Upper
162	100		
127	41.5	33.4	50.2
164	32.8	26.2	39.2

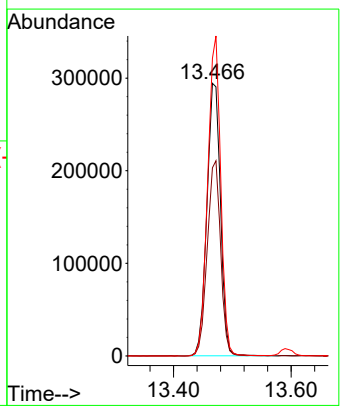


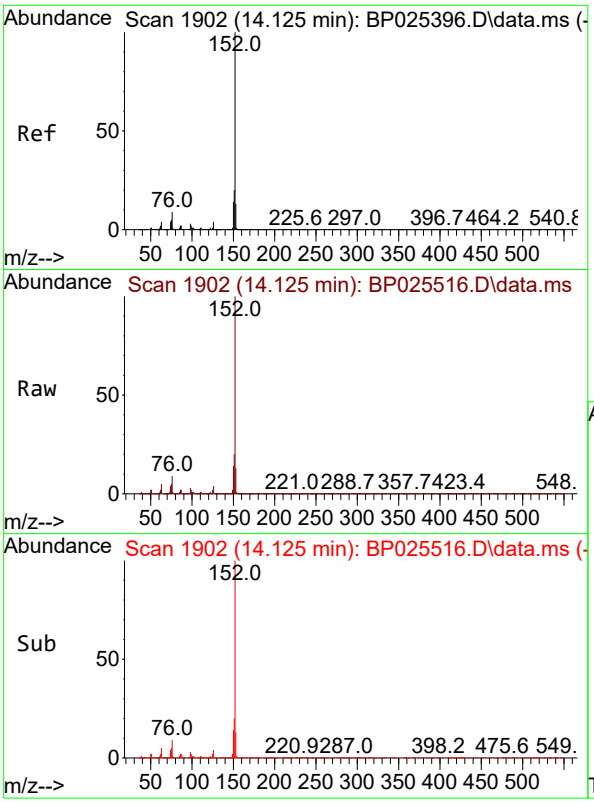


#48
2-Nitroaniline
Concen: 52.709 ng
RT: 13.466 min Scan# 1790
Delta R.T. -0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion: 65 Resp: 470973

Ion	Ratio	Lower	Upper
65	100		
92	69.0	57.6	86.4
138	109.2	91.0	136.6



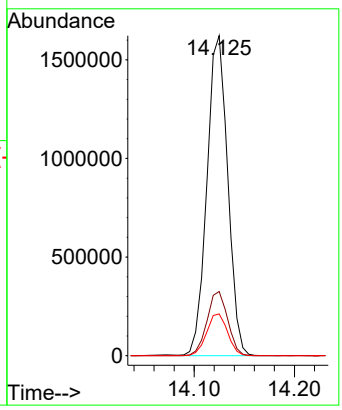


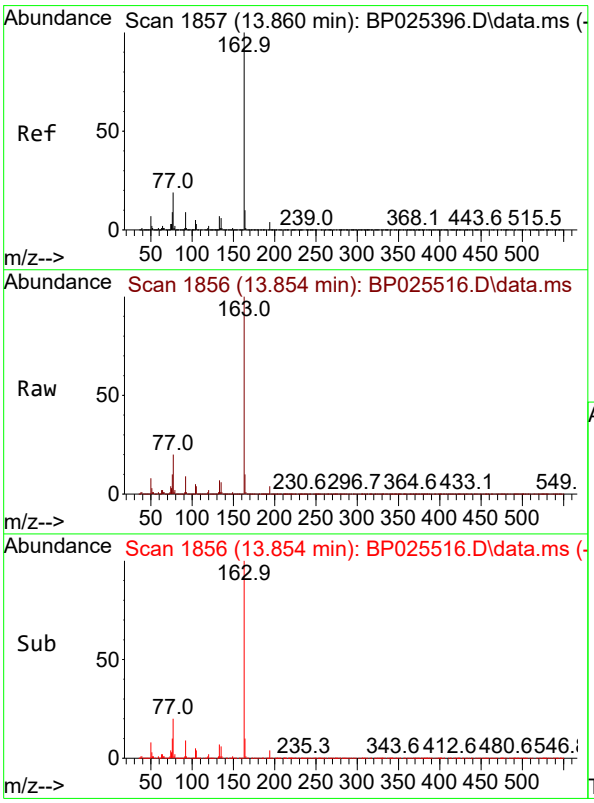
#49
Acenaphthylene
Concen: 46.035 ng
RT: 14.125 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Instrument :
BNA_P
ClientSampleId :
22BP-WMS

Tgt Ion:152 Resp: 2335961

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.0	24.0
153	13.1	10.6	15.8

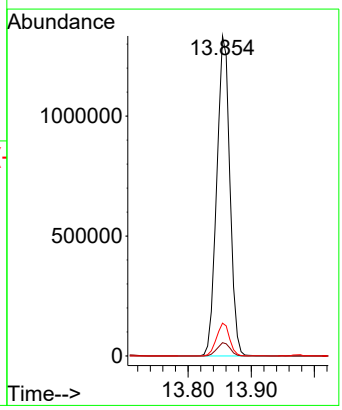


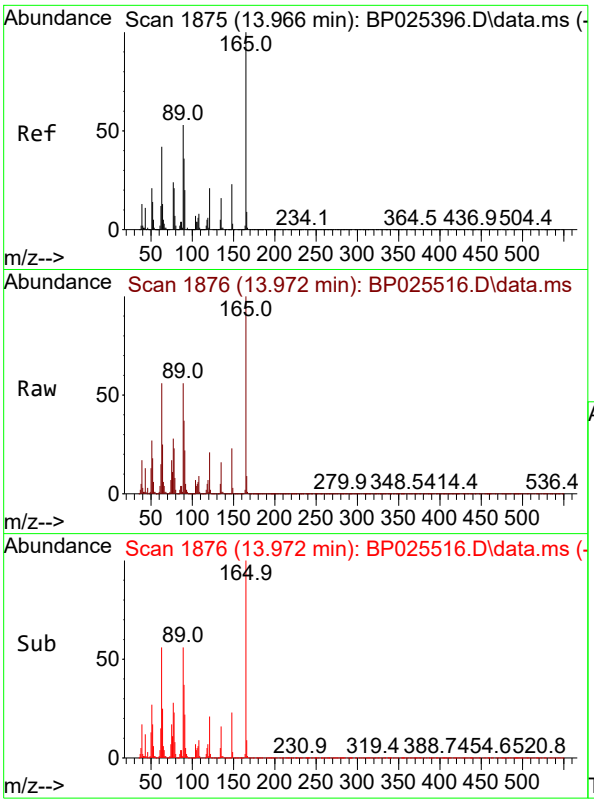


#50
Dimethylphthalate
Concen: 48.428 ng
RT: 13.854 min Scan# 1856
Delta R.T. -0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:163 Resp: 1923497

Ion	Ratio	Lower	Upper
163	100		
194	4.1	3.4	5.0
164	10.2	7.9	11.9



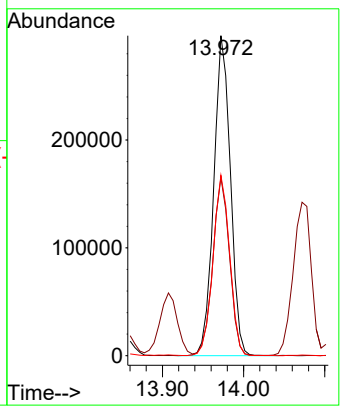


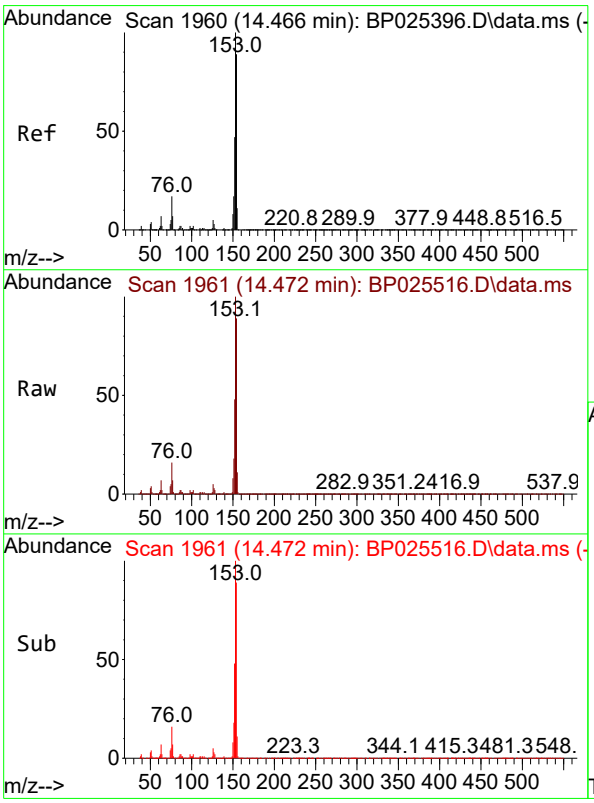
#51
2,6-Dinitrotoluene
Concen: 50.571 ng
RT: 13.972 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Instrument :
BNA_P
ClientSampleId :
22BP-WMS

Tgt Ion:165 Resp: 423357

Ion	Ratio	Lower	Upper
165	100		
63	55.7	40.9	61.3
89	56.3	42.1	63.1

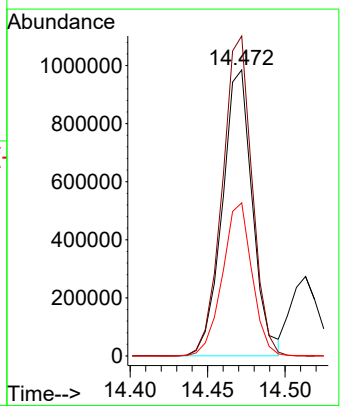


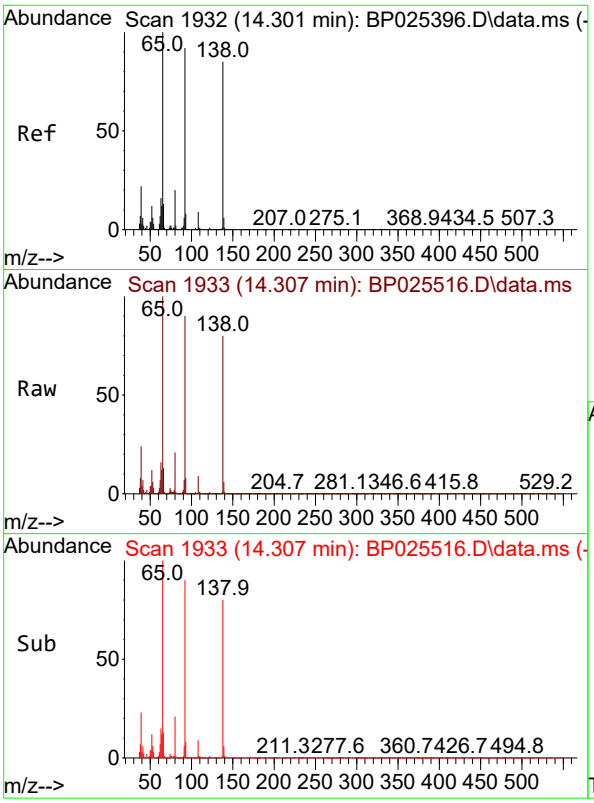


#52
Acenaphthene
Concen: 44.762 ng
RT: 14.472 min Scan# 1961
Delta R.T. 0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:154 Resp: 1333260

Ion	Ratio	Lower	Upper
154	100		
153	111.9	90.2	135.2
152	53.6	42.1	63.1



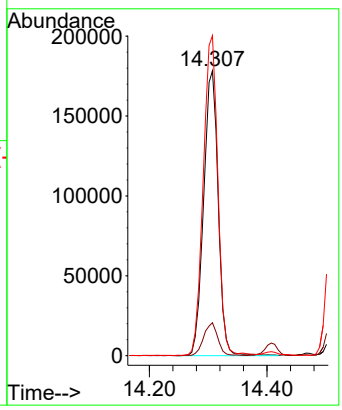


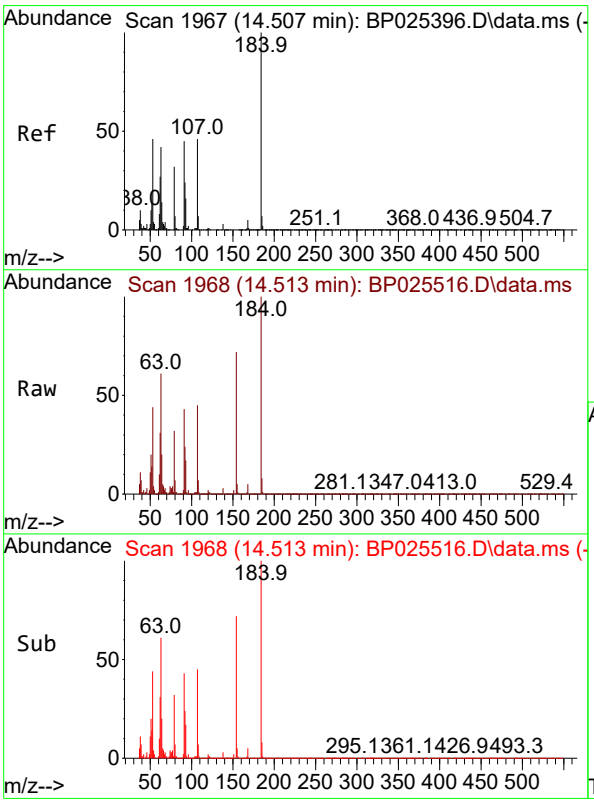
#53
3-Nitroaniline
Concen: 32.515 ng
RT: 14.307 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Instrument :
BNA_P
ClientSampleId :
22BP-WMS

Tgt Ion:138 Resp: 306252

Ion	Ratio	Lower	Upper
138	100		
108	11.6	8.3	12.5
92	112.4	86.2	129.2

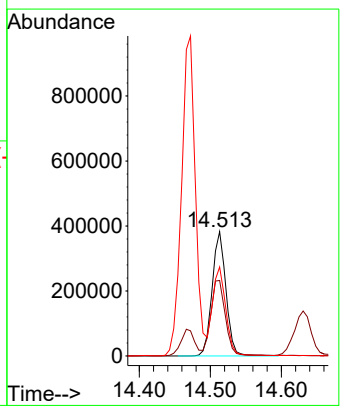


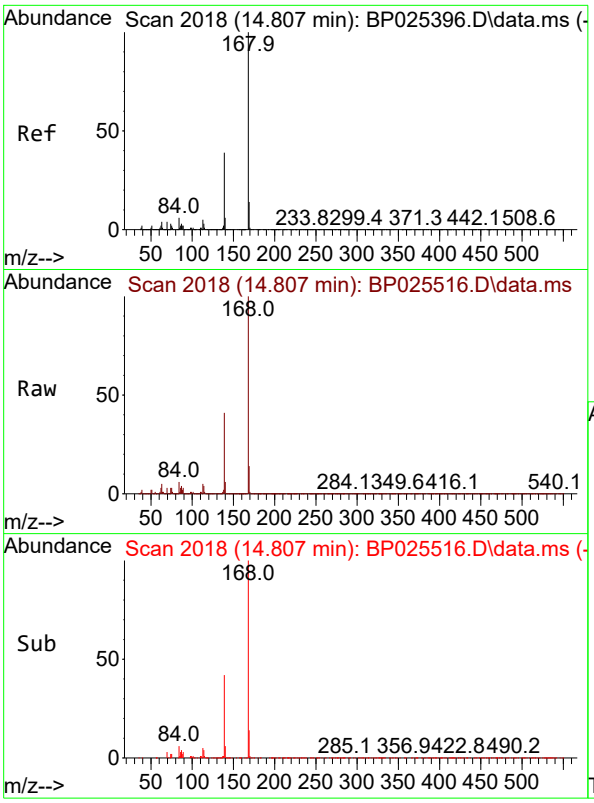


#54
2,4-Dinitrophenol
Concen: 115.933 ng
RT: 14.513 min Scan# 1968
Delta R.T. 0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:184 Resp: 518294

Ion	Ratio	Lower	Upper
184	100		
63	60.8	49.4	74.2
154	71.5	54.6	82.0



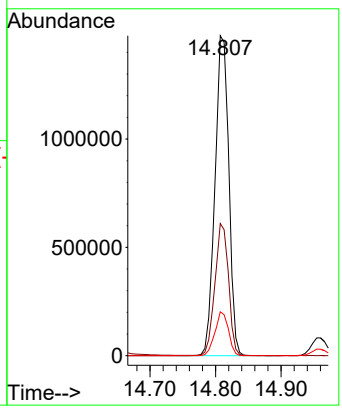


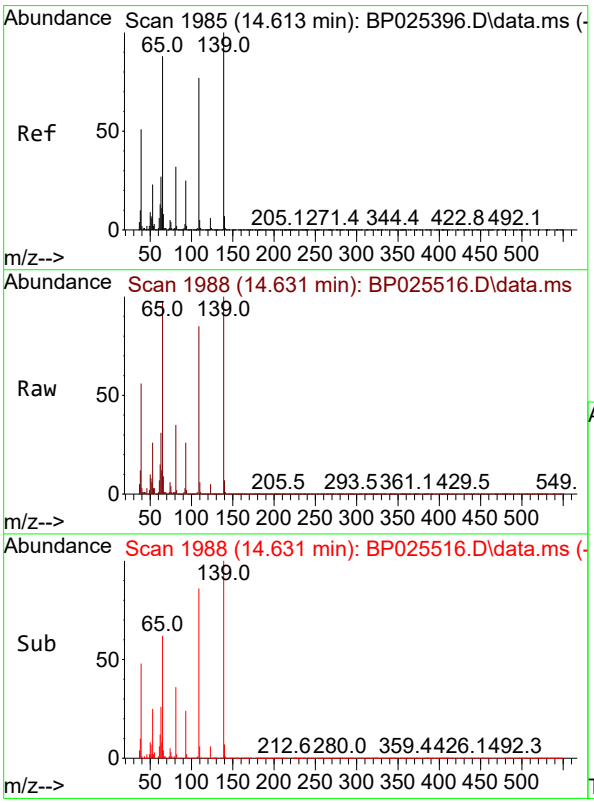
#55
Dibenzofuran
Concen: 45.760 ng
RT: 14.807 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Instrument :
BNA_P
ClientSampleId :
22BP-WMS

Tgt Ion:168 Resp: 2154905

Ion	Ratio	Lower	Upper
168	100		
139	41.3	31.5	47.3
169	13.7	10.9	16.3

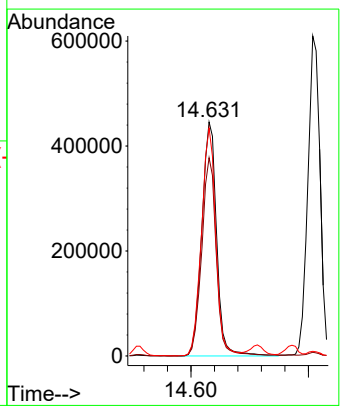


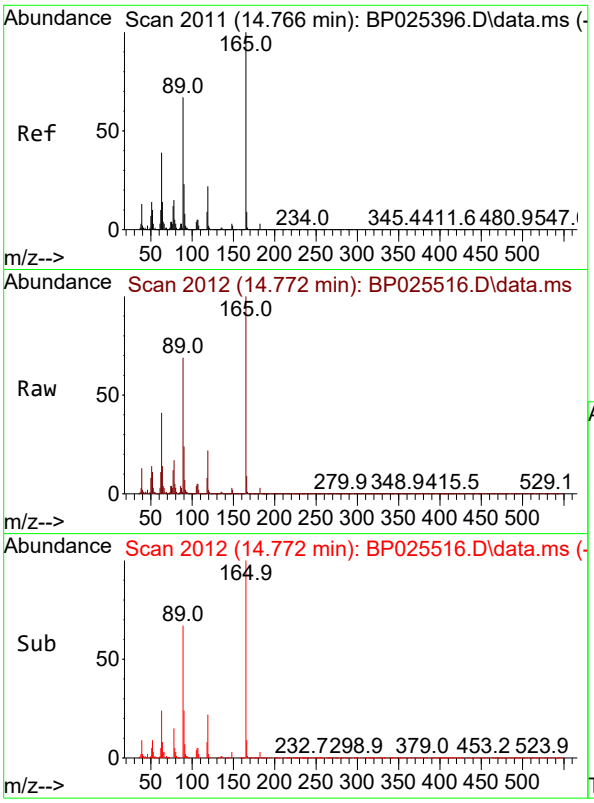


#56
4-Nitrophenol
Concen: 100.749 ng
RT: 14.631 min Scan# 1988
Delta R.T. 0.018 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:139 Resp: 779771

Ion	Ratio	Lower	Upper
139	100		
109	84.8	56.6	96.6
65	97.4	68.2	108.2



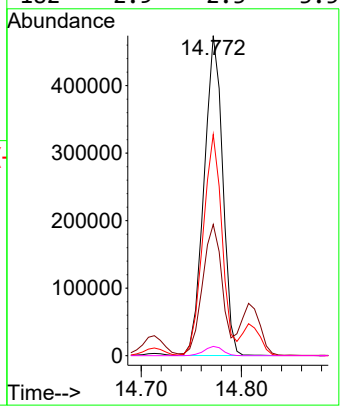


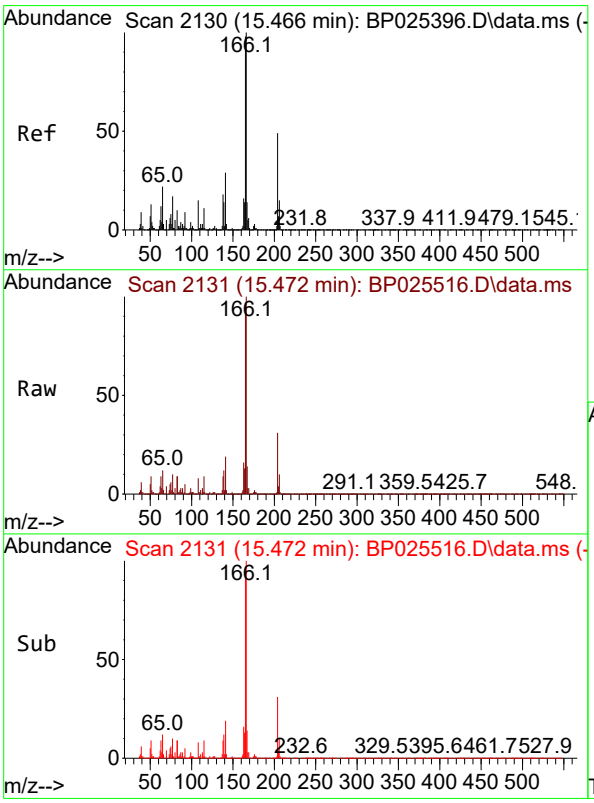
#57
2,4-Dinitrotoluene
Concen: 51.453 ng
RT: 14.772 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Instrument :
BNA_P
ClientSampleId :
22BP-WMS

Tgt Ion:165 Resp: 614566

Ion	Ratio	Lower	Upper
165	100		
63	41.0	31.4	47.2
89	69.1	53.3	79.9
182	2.9	2.3	3.5

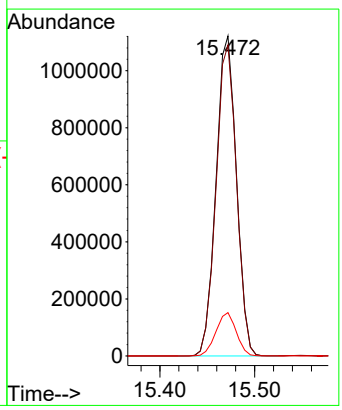


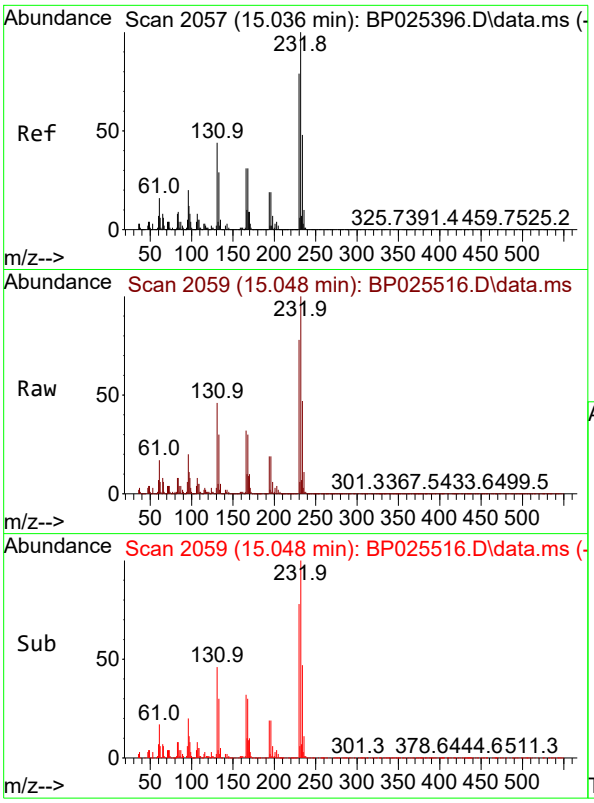


#58
Fluorene
Concen: 45.238 ng
RT: 15.472 min Scan# 2131
Delta R.T. 0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:166 Resp: 1680951

Ion	Ratio	Lower	Upper
166	100		
165	97.2	78.8	118.2
167	13.6	11.0	16.4



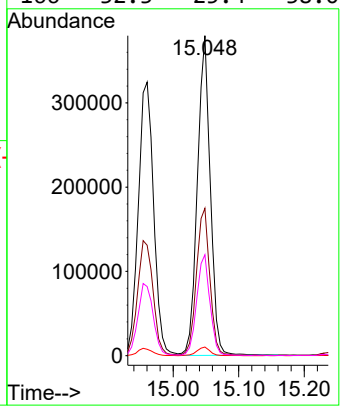


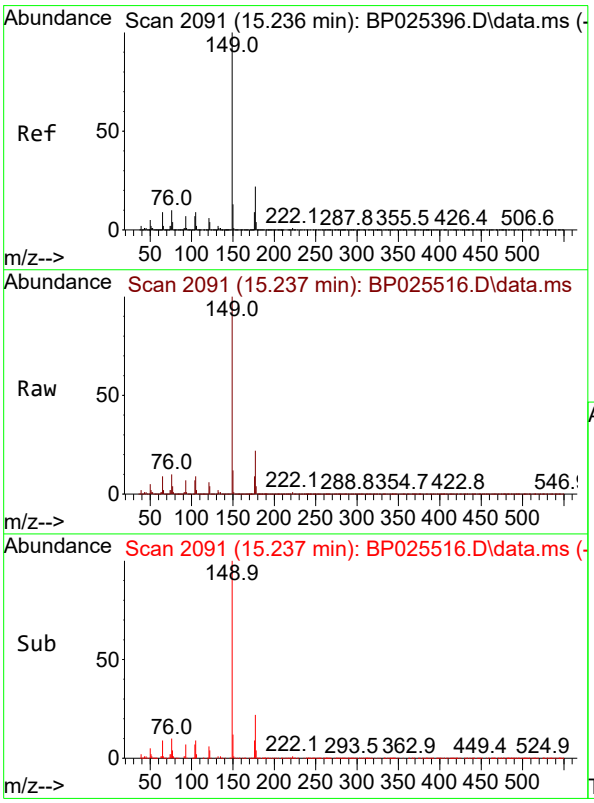
#59
2,3,4,6-Tetrachlorophenol
Concen: 50.862 ng
RT: 15.048 min Scan# 2
Delta R.T. 0.012 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Instrument :
BNA_P
ClientSampleId :
22BP-WMS

Tgt Ion:232 Resp: 520533

Ion	Ratio	Lower	Upper
232	100		
131	47.7	37.0	55.6
130	2.6	1.9	2.9
166	32.3	25.4	38.0

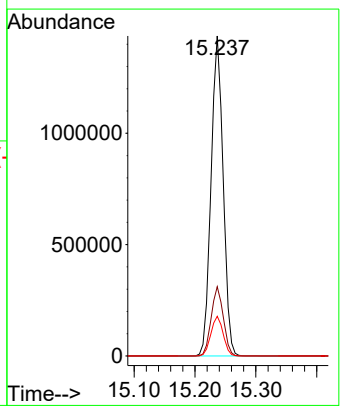


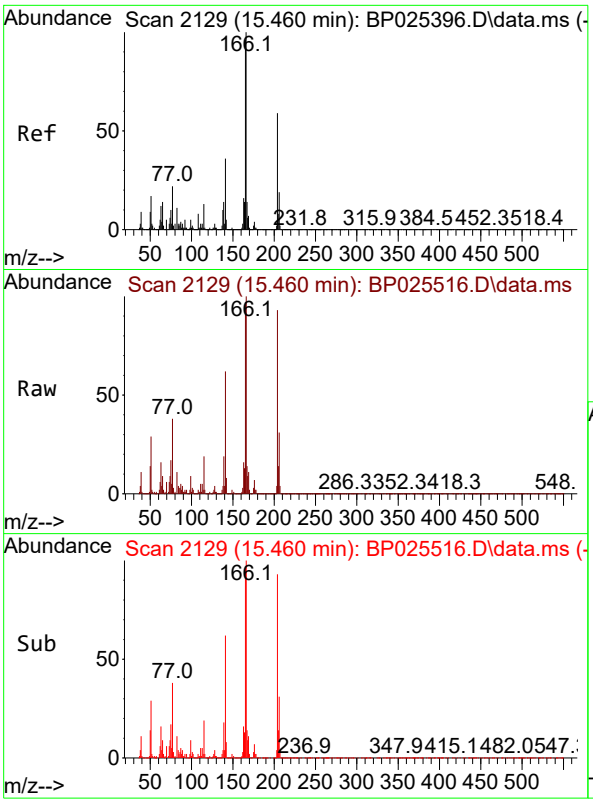


#60
Diethylphthalate
Concen: 49.161 ng
RT: 15.237 min Scan# 2091
Delta R.T. 0.000 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:149 Resp: 1984056

Ion	Ratio	Lower	Upper
149	100		
177	21.7	17.3	25.9
150	12.4	10.3	15.5



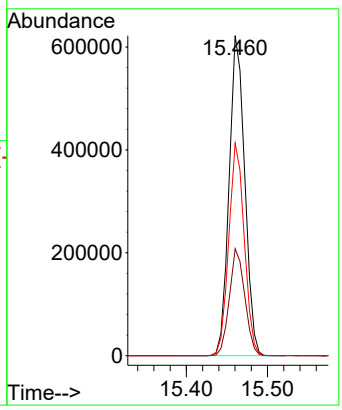


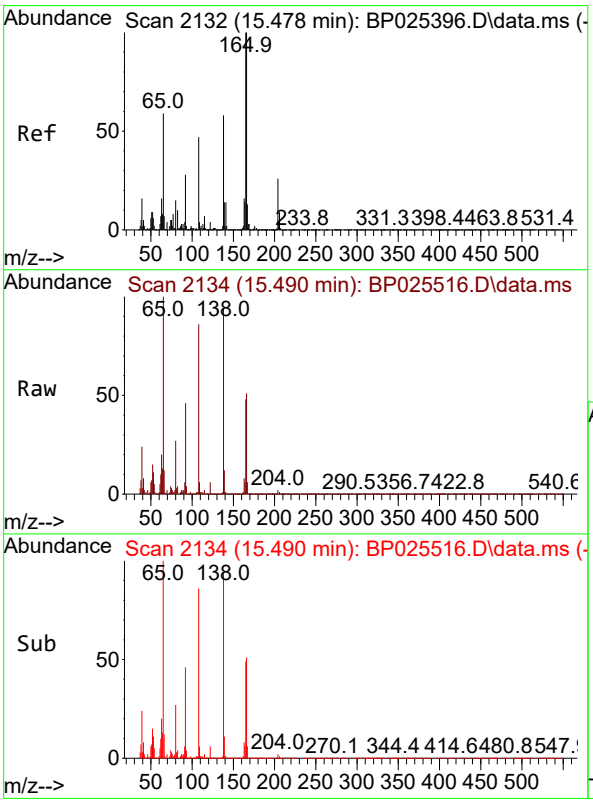
#61
4-Chlorophenyl-phenylether
Concen: 44.976 ng
RT: 15.460 min Scan# 21
Delta R.T. 0.000 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Instrument :
BNA_P
ClientSampleId :
22BP-WMS

Tgt Ion:204 Resp: 831152

Ion	Ratio	Lower	Upper
204	100		
206	33.4	25.8	38.8
141	66.4	49.4	74.2

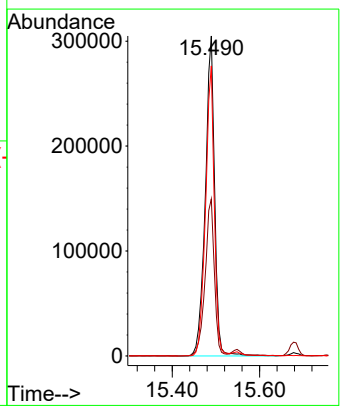


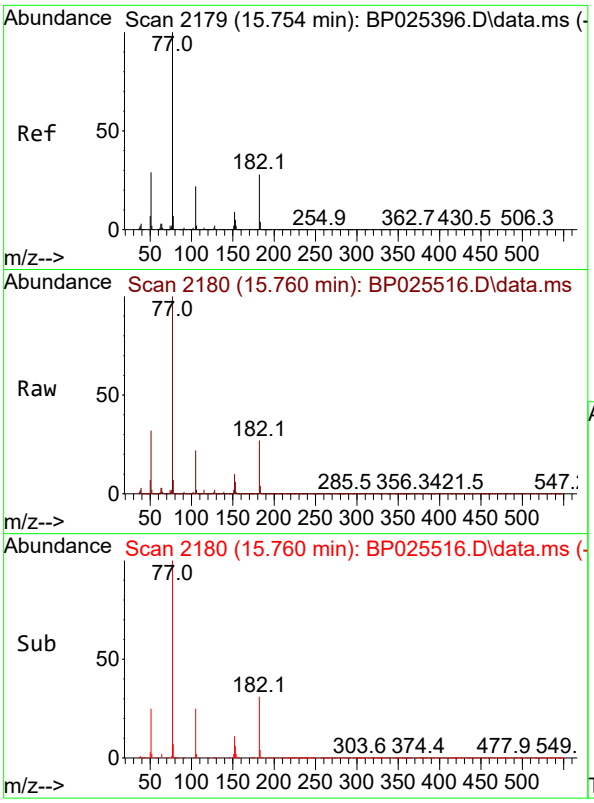


#62
4-Nitroaniline
Concen: 47.037 ng
RT: 15.490 min Scan# 2134
Delta R.T. 0.012 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:138 Resp: 454185

Ion	Ratio	Lower	Upper
138	100		
92	49.1	29.1	69.1
108	90.7	61.5	101.5



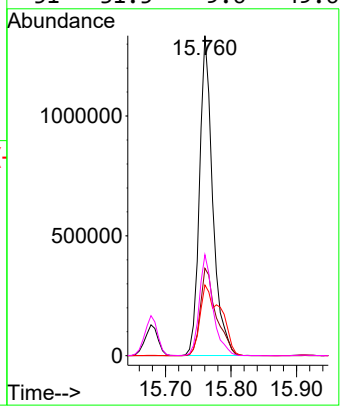


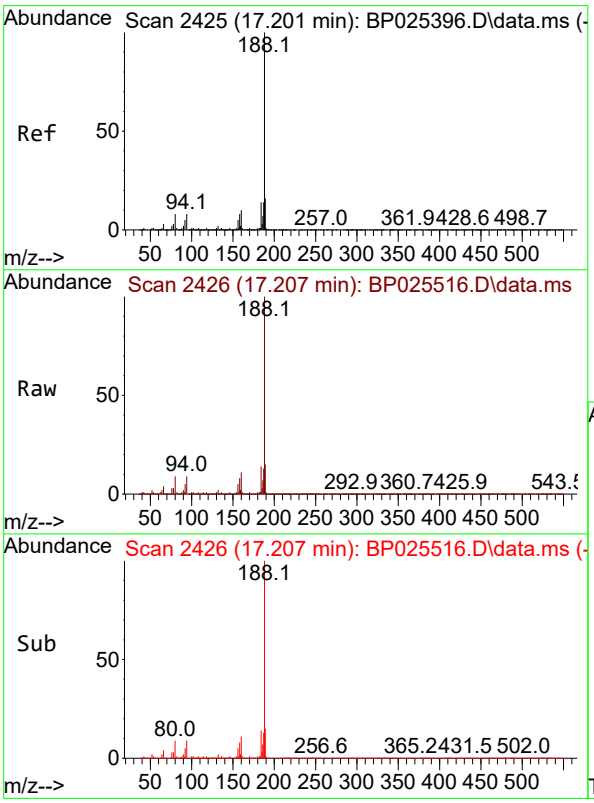
#63
Azobenzene
Concen: 54.357 ng
RT: 15.760 min Scan# 21
Delta R.T. 0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Instrument :
BNA_P
ClientSampleId :
22BP-WMS

Tgt Ion: 77 Resp: 1878426

Ion	Ratio	Lower	Upper
77	100		
182	27.3	7.5	47.5
105	22.1	2.1	42.1
51	31.5	9.6	49.6

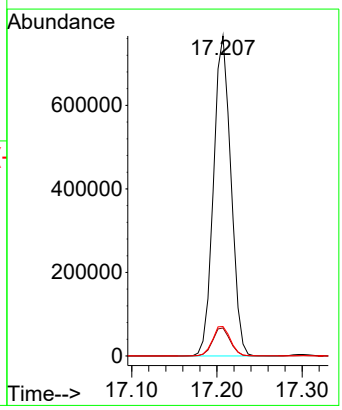


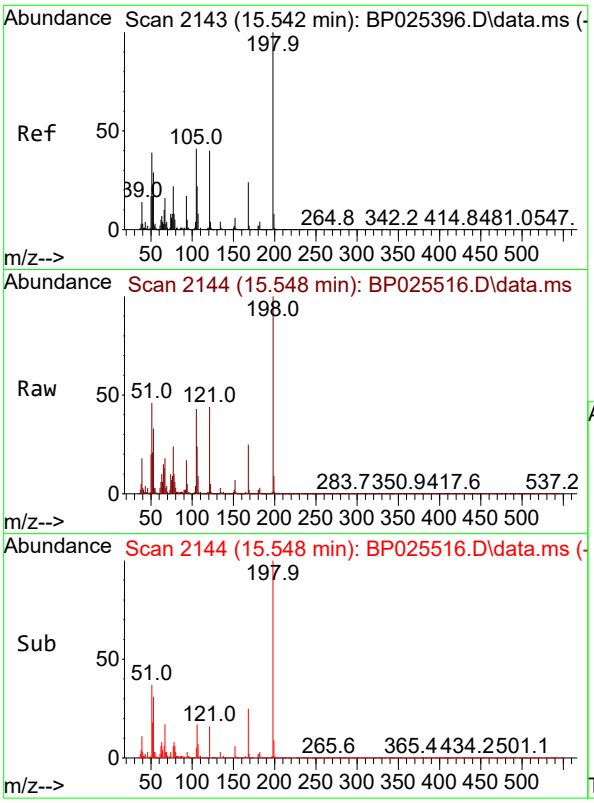


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.207 min Scan# 2426
Delta R.T. 0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:188 Resp: 1090849

Ion	Ratio	Lower	Upper
188	100		
94	8.8	6.6	10.0
80	9.2	6.7	10.1



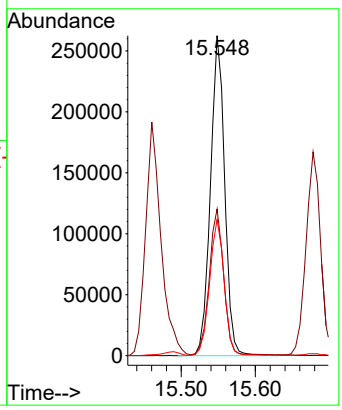


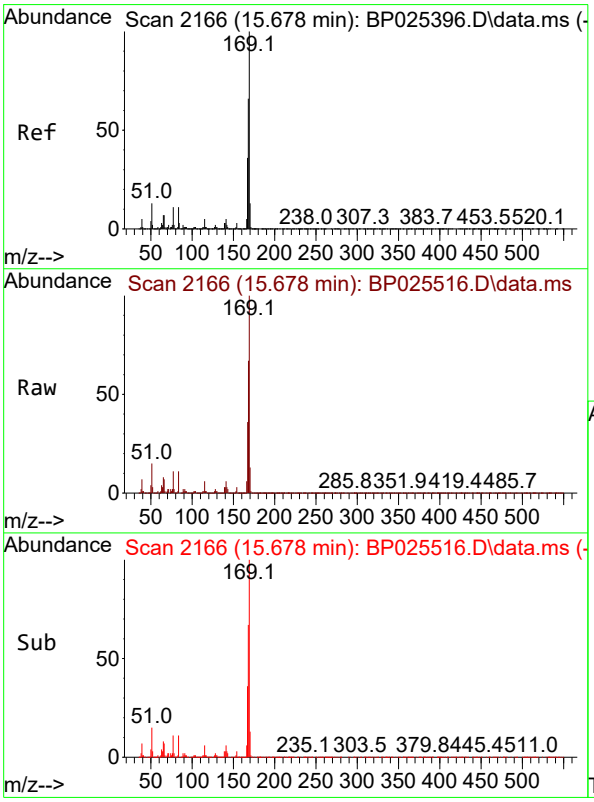
#65
4,6-Dinitro-2-methylphenol
Concen: 51.578 ng
RT: 15.548 min Scan# 21
Delta R.T. 0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Instrument :
BNA_P
ClientSampleId :
22BP-WMS

Tgt Ion:198 Resp: 350723

Ion	Ratio	Lower	Upper
198	100		
51	45.9	19.6	59.6
105	42.6	20.9	60.9

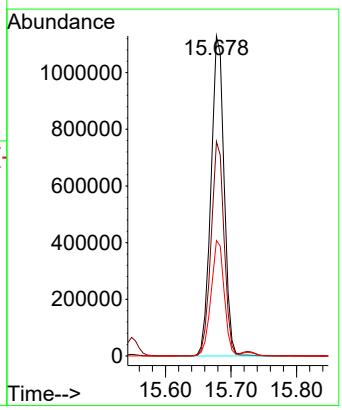


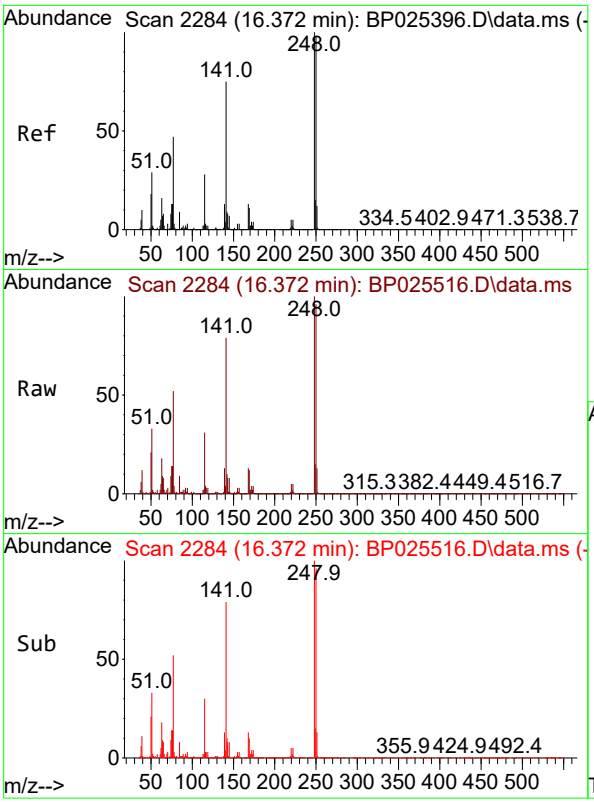


#66
n-Nitrosodiphenylamine
Concen: 47.250 ng
RT: 15.678 min Scan# 2166
Delta R.T. 0.000 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:169 Resp: 1571731

Ion	Ratio	Lower	Upper
169	100		
168	67.0	53.2	79.8
167	36.1	28.7	43.1



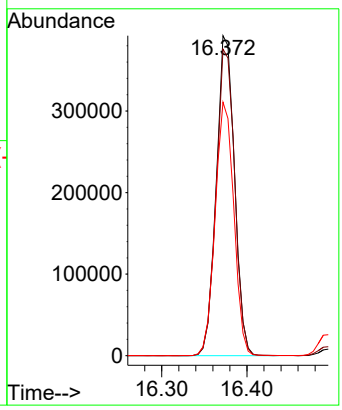


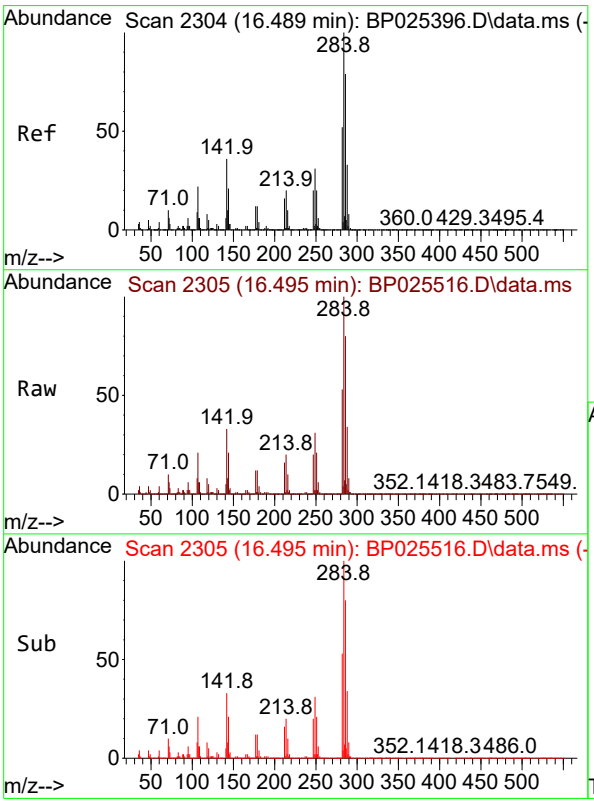
#67
4-Bromophenyl-phenylether
Concen: 48.762 ng
RT: 16.372 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Instrument :
BNA_P
ClientSampleId :
22BP-WMS

Tgt Ion:248 Resp: 585013

Ion	Ratio	Lower	Upper
248	100		
250	95.8	78.2	117.2
141	79.2	59.6	89.4

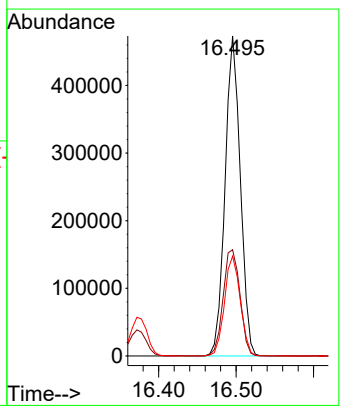


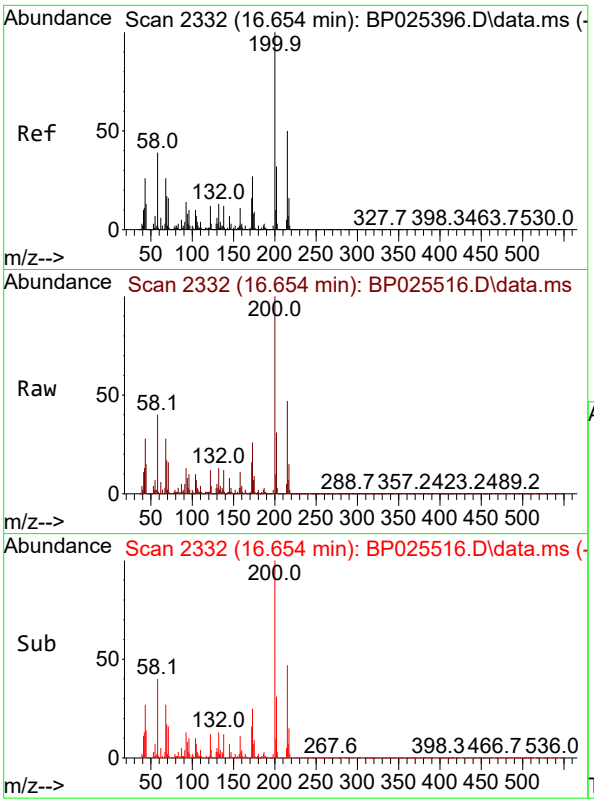


#68
Hexachlorobenzene
Concen: 46.567 ng
RT: 16.495 min Scan# 2305
Delta R.T. 0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:284 Resp: 647628

Ion	Ratio	Lower	Upper
284	100		
142	33.2	29.1	43.7
249	31.2	25.0	37.4



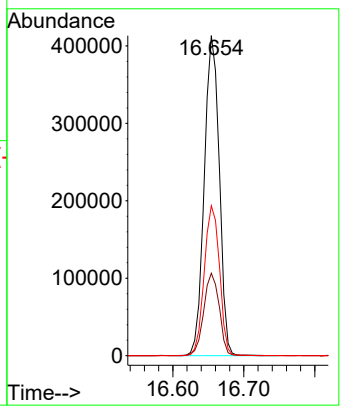


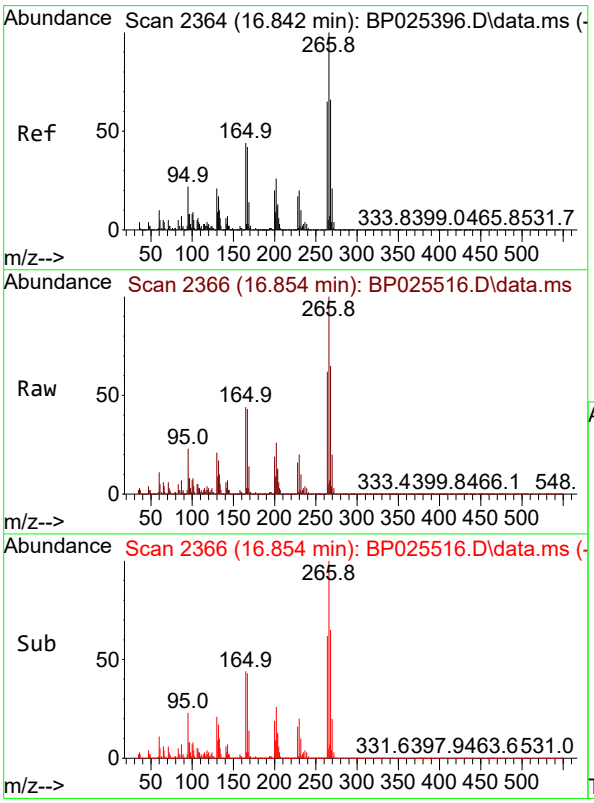
#69
Atrazine
Concen: 48.929 ng
RT: 16.654 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Instrument :
BNA_P
ClientSampleId :
22BP-WMS

Tgt Ion:200 Resp: 609543

Ion	Ratio	Lower	Upper
200	100		
173	25.8	6.7	46.7
215	46.9	29.7	69.7

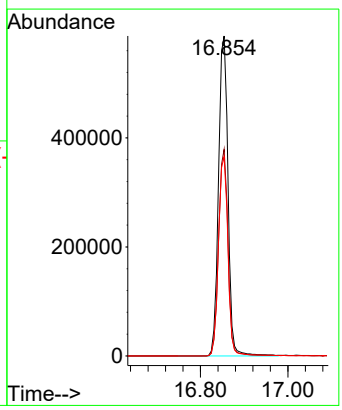


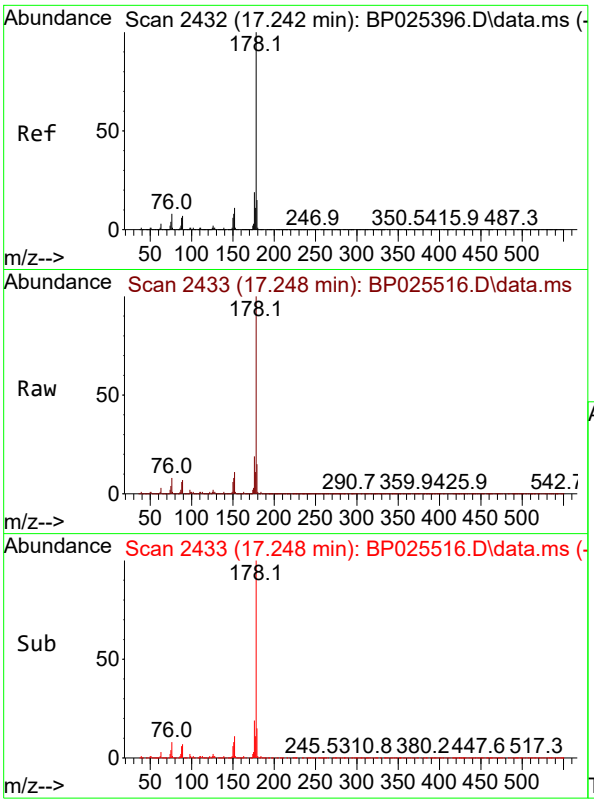


#70
Pentachlorophenol
Concen: 99.646 ng
RT: 16.854 min Scan# 2366
Delta R.T. 0.012 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:266 Resp: 874797

Ion	Ratio	Lower	Upper
266	100		
268	64.5	52.6	79.0
264	62.3	52.0	78.0



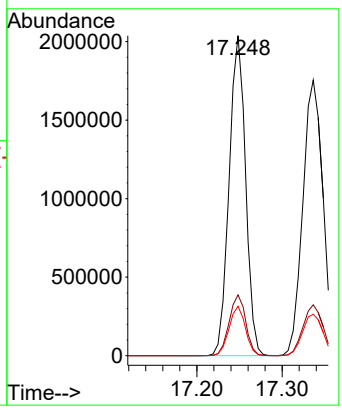


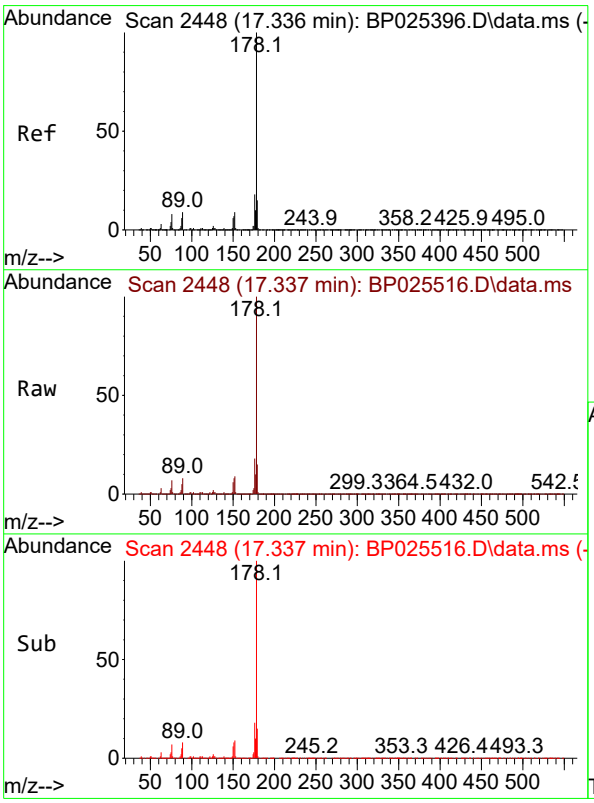
#71
Phenanthrene
Concen: 45.661 ng
RT: 17.248 min Scan# 24
Delta R.T. 0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Instrument :
BNA_P
ClientSampleId :
22BP-WMS

Tgt Ion:178 Resp: 2736199

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.5	23.3
179	15.4	12.2	18.4

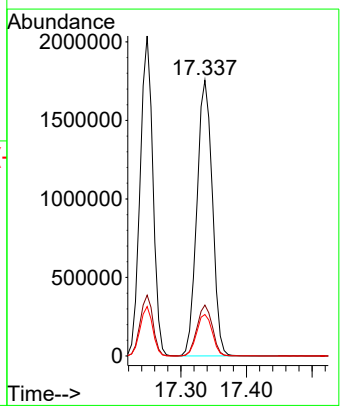


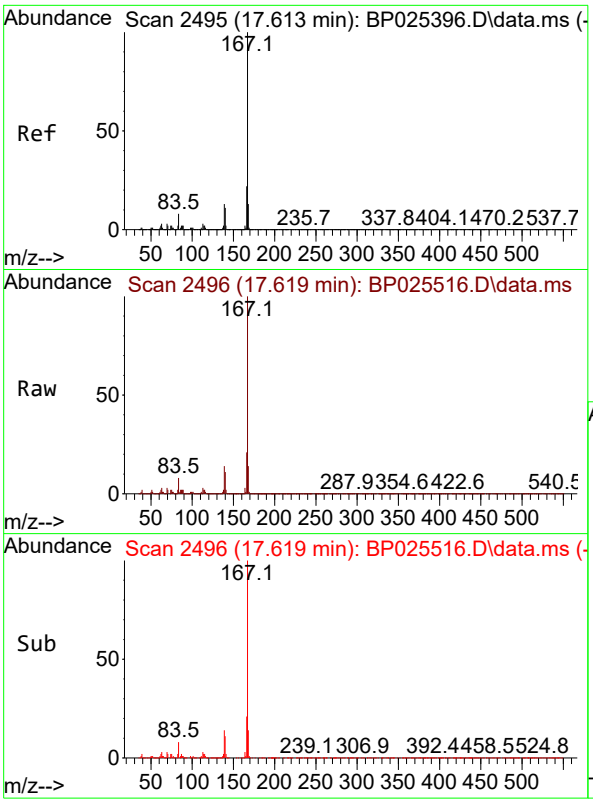


#72
Anthracene
Concen: 47.028 ng
RT: 17.337 min Scan# 2448
Delta R.T. 0.000 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:178 Resp: 2877852

Ion	Ratio	Lower	Upper
178	100		
176	18.5	14.7	22.1
179	15.0	12.2	18.2



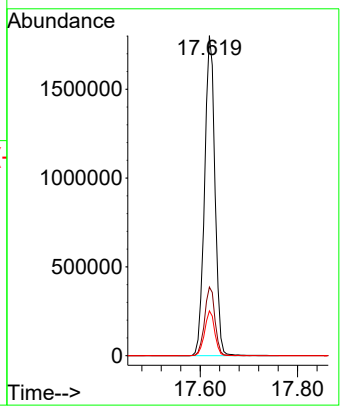


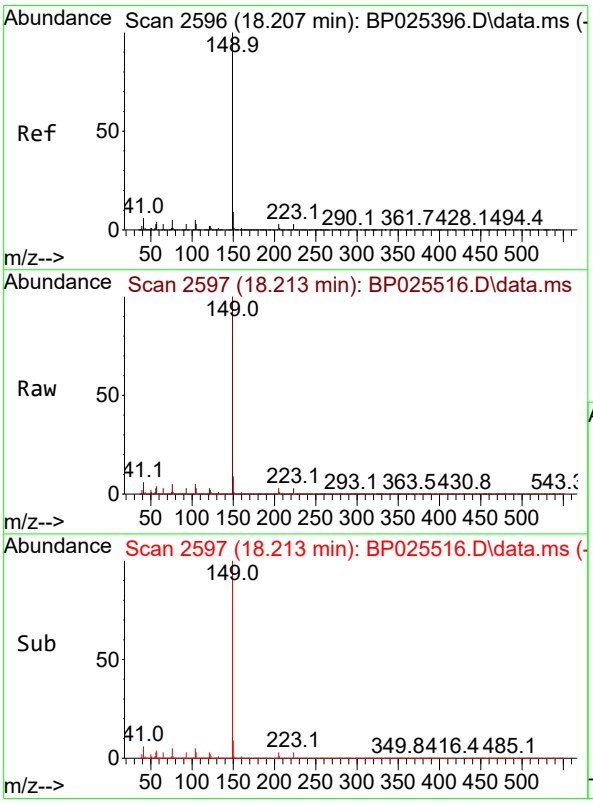
#73
Carbazole
Concen: 45.874 ng
RT: 17.619 min Scan# 24
Delta R.T. 0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Instrument :
BNA_P
ClientSampleId :
22BP-WMS

Tgt Ion:167 Resp: 2644146

Ion	Ratio	Lower	Upper
167	100		
166	21.5	17.5	26.3
139	14.0	10.6	16.0

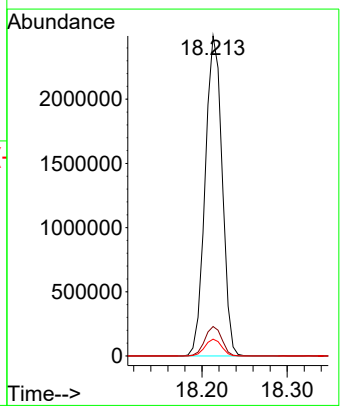


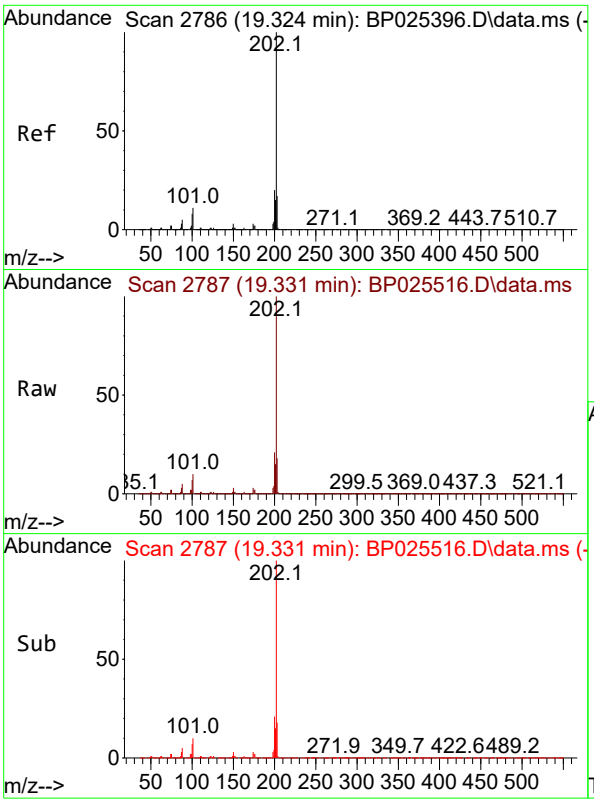


#74
Di-n-butylphthalate
Concen: 48.618 ng
RT: 18.213 min Scan# 2597
Delta R.T. 0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:149 Resp: 3447802

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.4	11.0
104	5.2	4.2	6.2



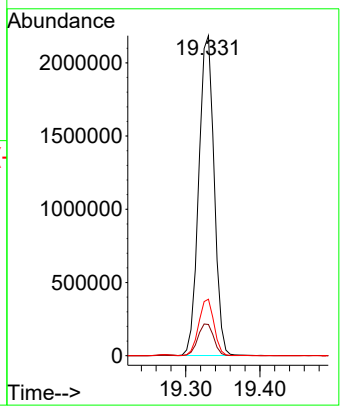


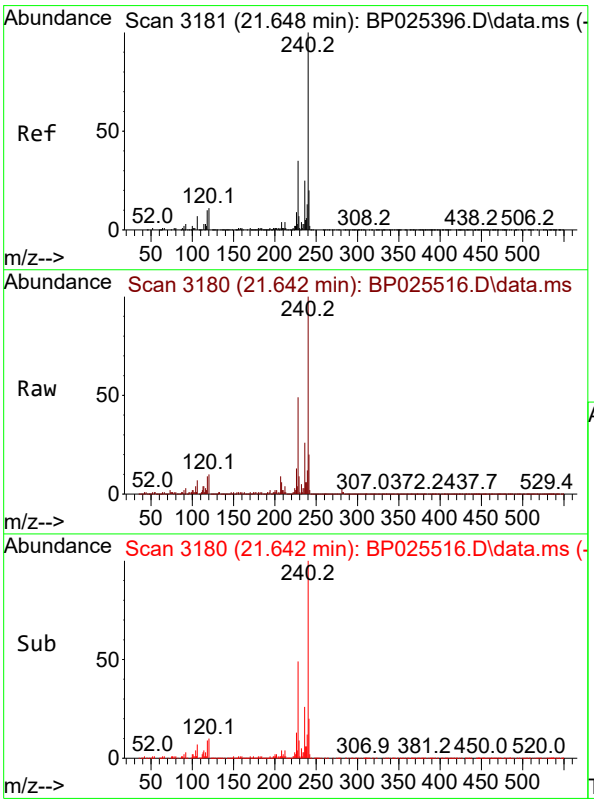
#75
Fluoranthene
Concen: 43.953 ng
RT: 19.331 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Instrument :
BNA_P
ClientSampleId :
22BP-WMS

Tgt Ion:202 Resp: 3141701

Ion	Ratio	Lower	Upper
202	100		
101	9.8	0.0	31.1
203	17.6	0.0	37.3

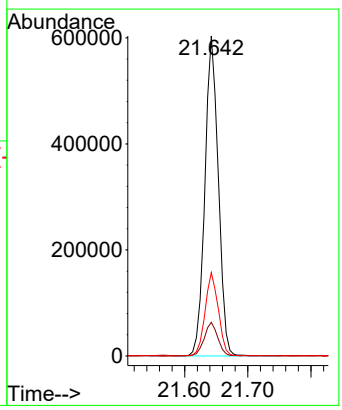


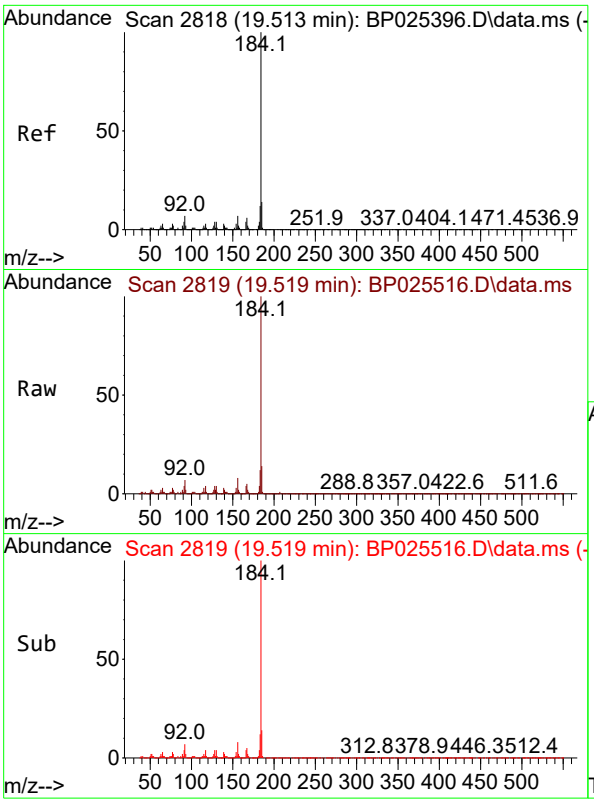


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.642 min Scan# 3180
Delta R.T. -0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:240 Resp: 892873

Ion	Ratio	Lower	Upper
240	100		
120	10.5	8.9	13.3
236	26.1	19.8	29.8



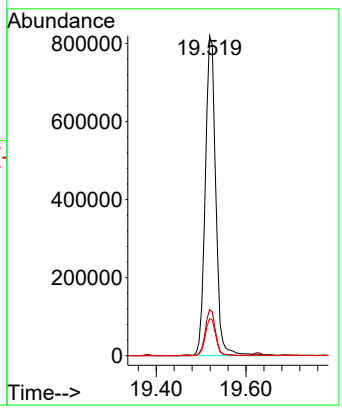


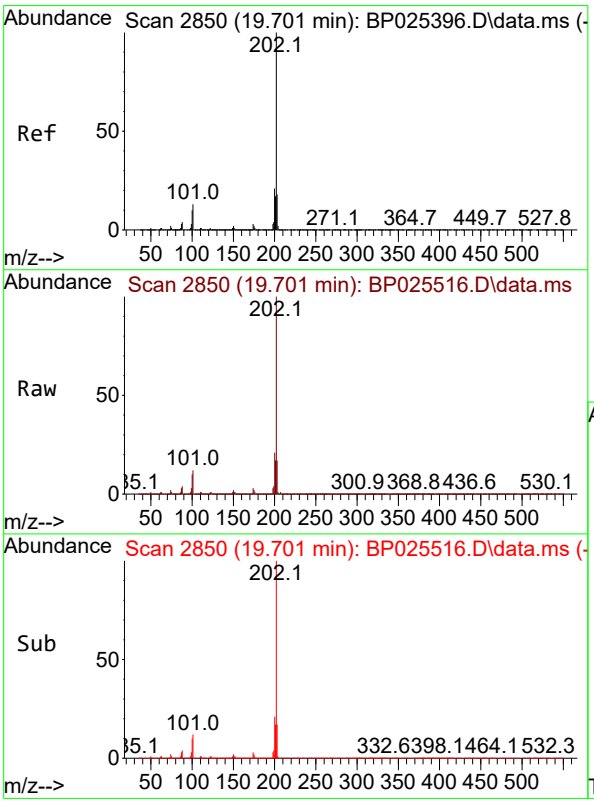
#77
Benzidine
Concen: 43.542 ng
RT: 19.519 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Instrument :
BNA_P
ClientSampleId :
22BP-WMS

Tgt Ion:184 Resp: 1326808

Ion	Ratio	Lower	Upper
184	100		
185	14.4	11.5	17.3
183	11.6	9.4	14.2

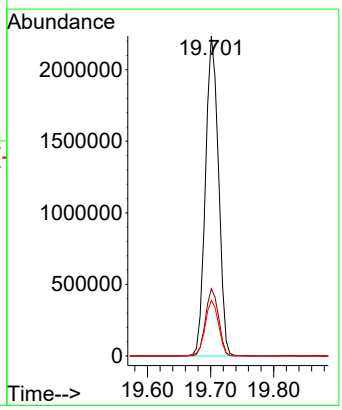


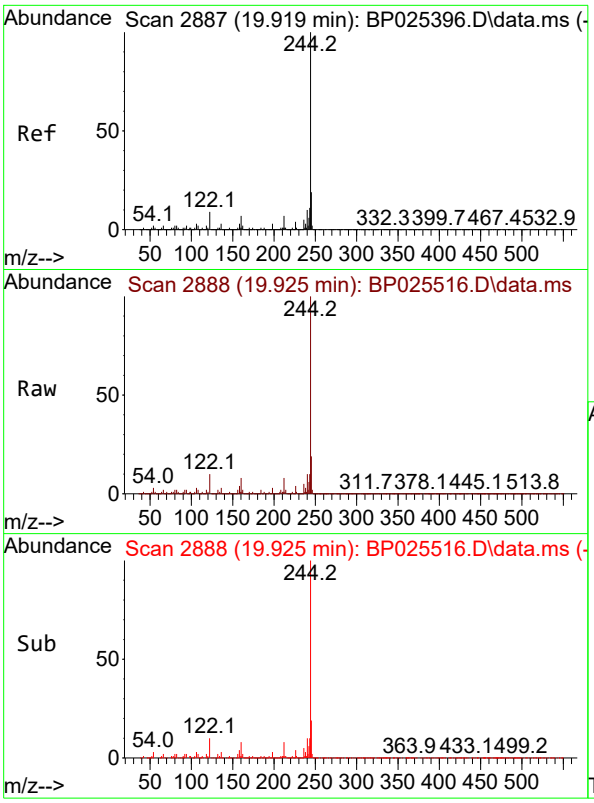


#78
Pyrene
Concen: 55.290 ng
RT: 19.701 min Scan# 2850
Delta R.T. 0.000 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:202 Resp: 3208701

Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.9	25.3
203	17.4	14.2	21.2



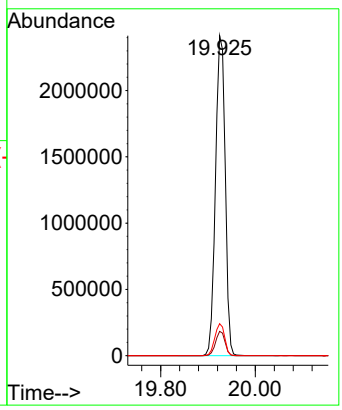


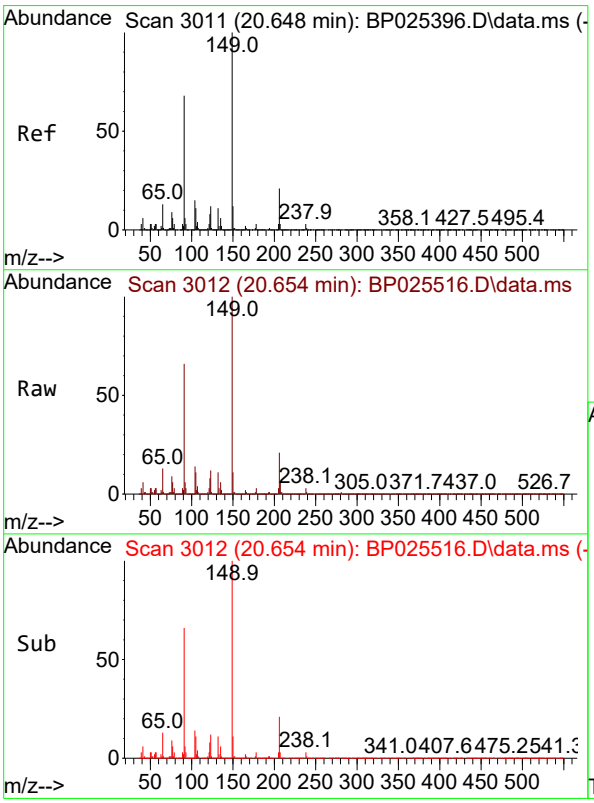
#79
Terphenyl-d14
Concen: 70.370 ng
RT: 19.925 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Instrument :
BNA_P
ClientSampleId :
22BP-WMS

Tgt Ion:244 Resp: 3434227

Ion	Ratio	Lower	Upper
244	100		
212	7.6	5.8	8.6
122	10.0	7.4	11.2

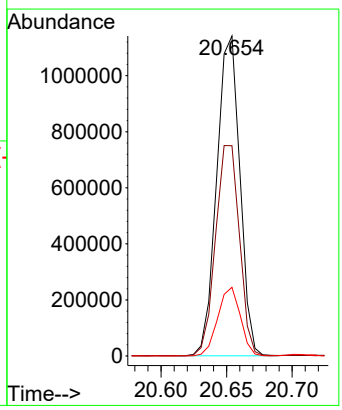


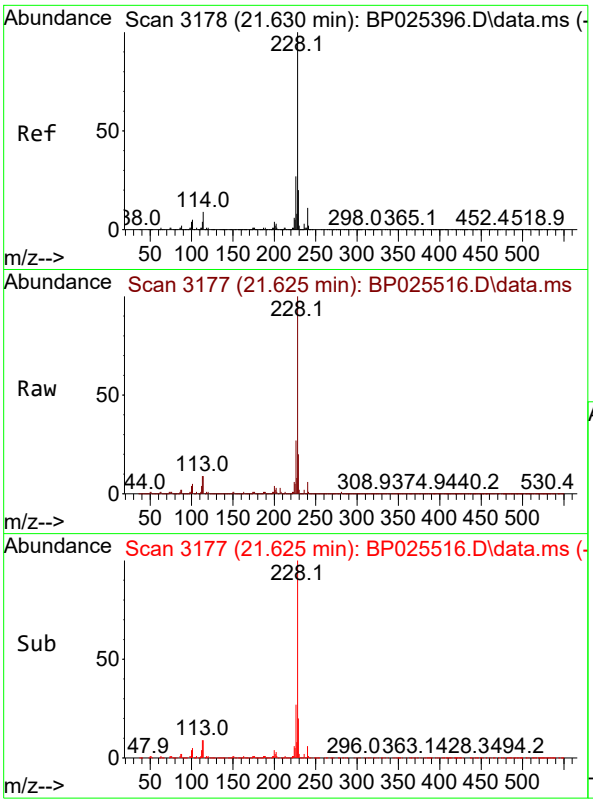


#80
Butylbenzylphthalate
Concen: 53.266 ng
RT: 20.654 min Scan# 3012
Delta R.T. 0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:149 Resp: 1400983

Ion	Ratio	Lower	Upper
149	100		
91	65.7	54.2	81.2
206	21.5	16.6	24.8



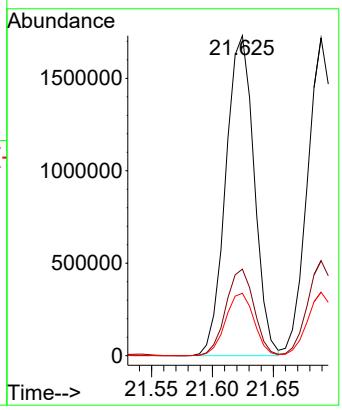


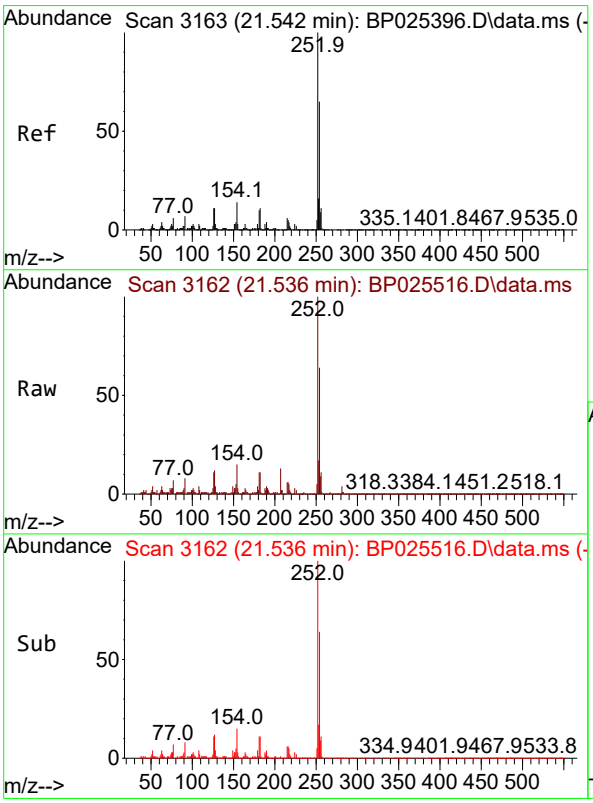
#81
Benzo(a)anthracene
Concen: 47.640 ng
RT: 21.625 min Scan# 3
Delta R.T. -0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Instrument :
BNA_P
ClientSampleId :
22BP-WMS

Tgt Ion:228 Resp: 2805279

Ion	Ratio	Lower	Upper
228	100		
226	27.0	21.7	32.5
229	19.5	15.6	23.4

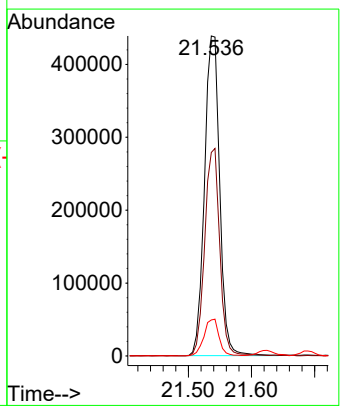


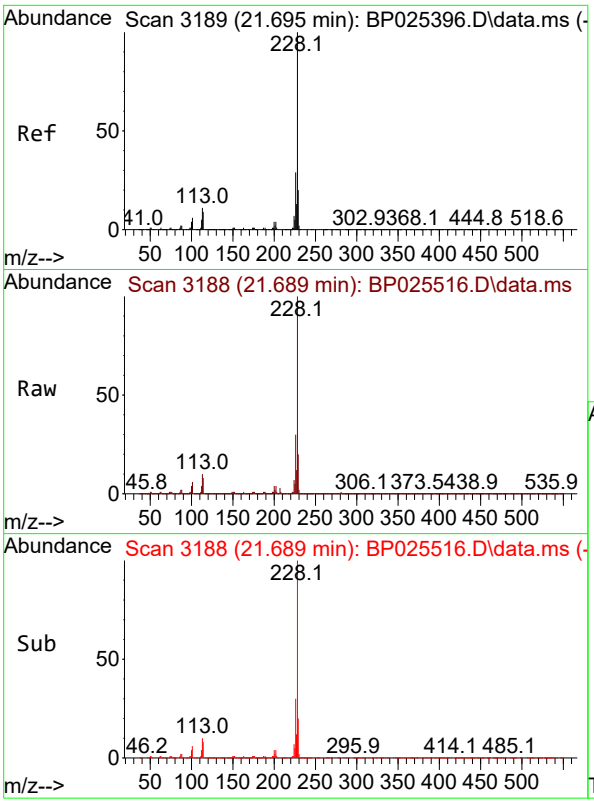


#82
3,3'-Dichlorobenzidine
Concen: 33.021 ng
RT: 21.536 min Scan# 3162
Delta R.T. -0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:252 Resp: 732910

Ion	Ratio	Lower	Upper
252	100		
254	63.6	51.8	77.6
126	11.2	9.1	13.7



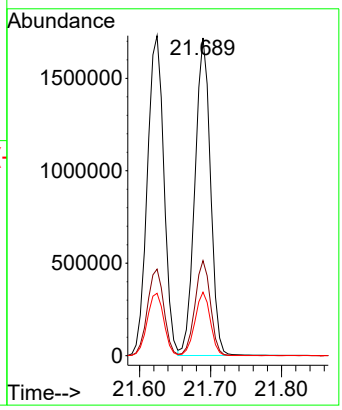


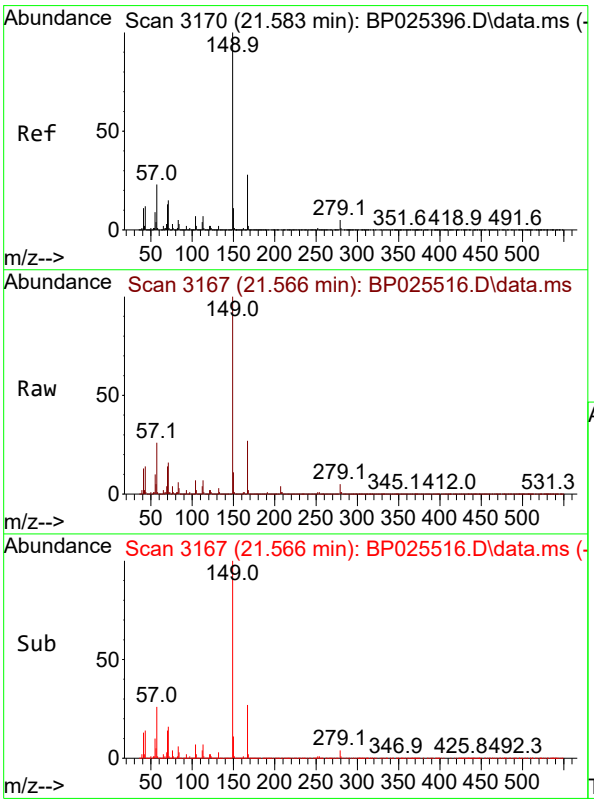
#83
Chrysene
Concen: 47.543 ng
RT: 21.689 min Scan# 3
Delta R.T. -0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Instrument :
BNA_P
ClientSampleId :
22BP-WMS

Tgt Ion:228 Resp: 2621789

Ion	Ratio	Lower	Upper
228	100		
226	29.9	23.2	34.8
229	20.0	15.6	23.4

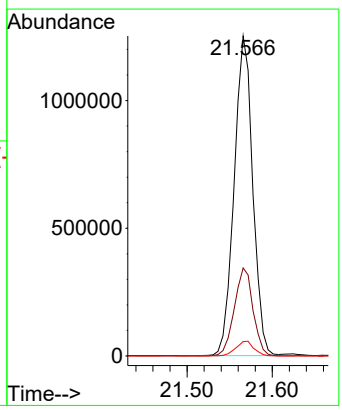


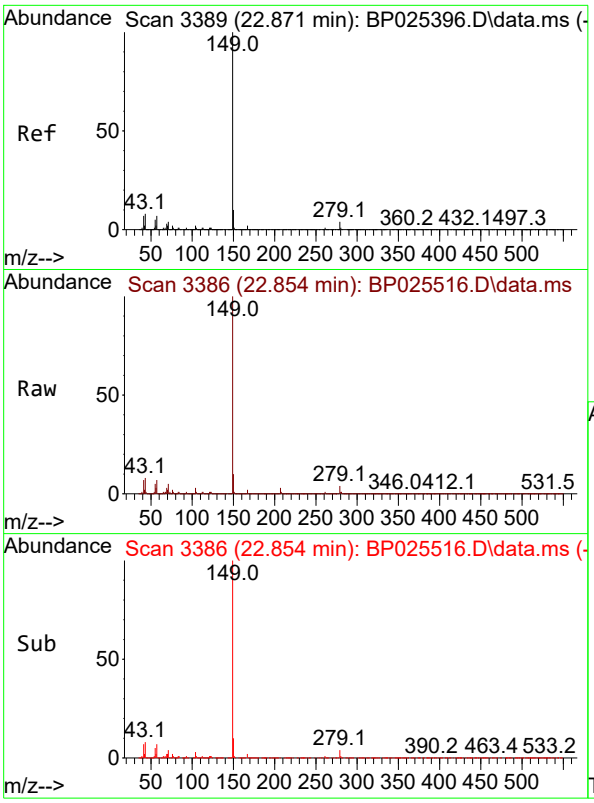


#84
Bis(2-ethylhexyl)phthalate
Concen: 48.987 ng
RT: 21.566 min Scan# 3167
Delta R.T. -0.017 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:149 Resp: 1896634

Ion	Ratio	Lower	Upper
149	100		
167	27.5	22.1	33.1
279	4.5	3.8	5.6



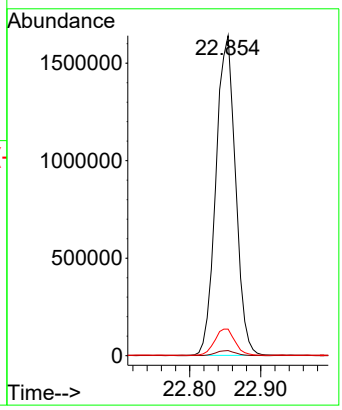


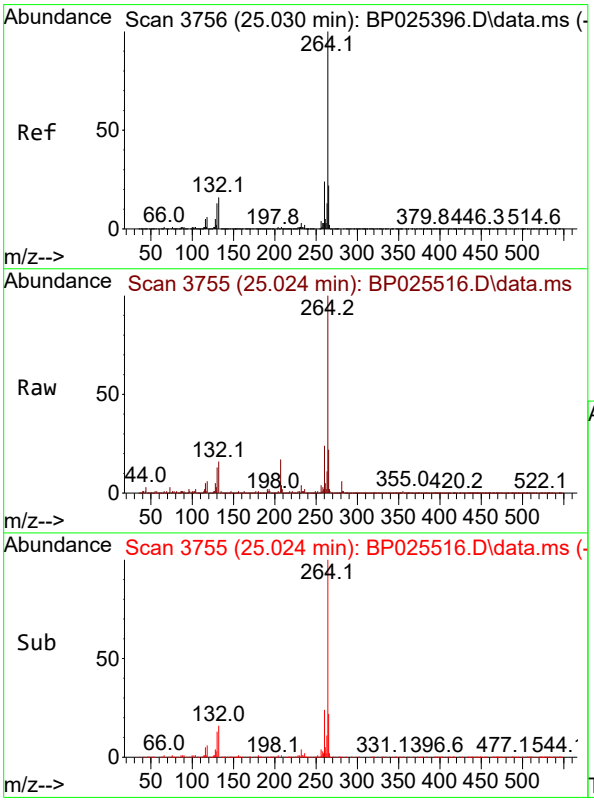
#85
Di-n-octyl phthalate
Concen: 47.102 ng
RT: 22.854 min Scan# 3
Delta R.T. -0.017 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Instrument :
BNA_P
ClientSampleId :
22BP-WMS

Tgt Ion:149 Resp: 3136775

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	8.4	6.3	9.5

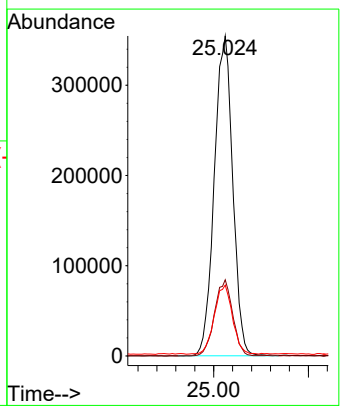


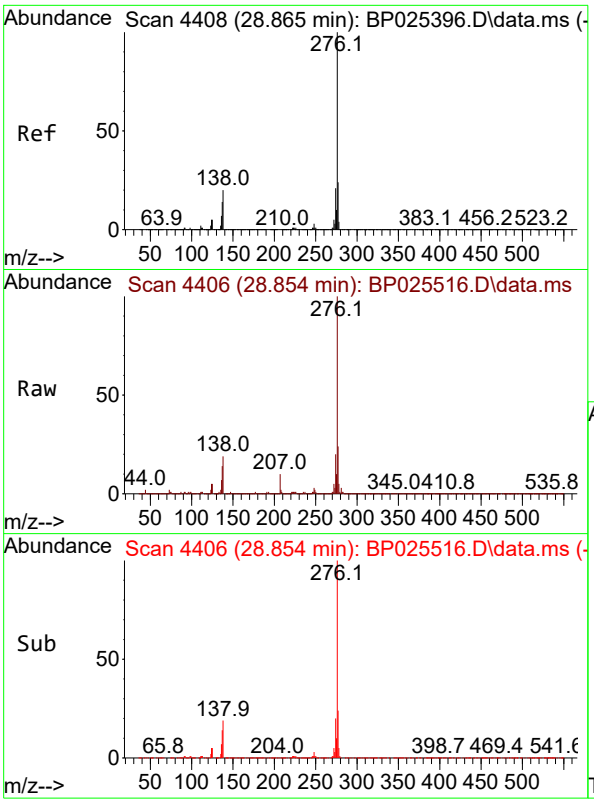


#86
Perylene-d12
Concen: 20.000 ng
RT: 25.024 min Scan# 3755
Delta R.T. -0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:264 Resp: 958463

Ion	Ratio	Lower	Upper
264	100		
260	23.8	19.3	28.9
265	22.1	17.4	26.0



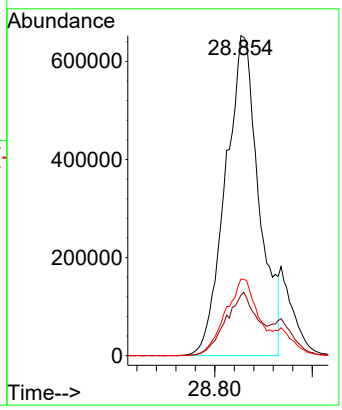


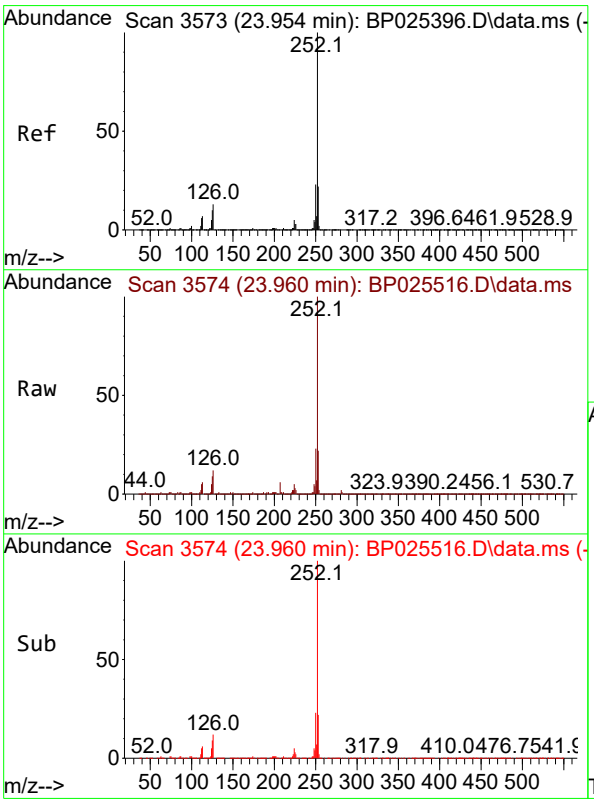
#87
Indeno(1,2,3-cd)pyrene
Concen: 44.205 ng
RT: 28.854 min Scan# 4
Delta R.T. -0.012 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Instrument :
BNA_P
ClientSampleId :
22BP-WMS

Tgt Ion:276 Resp: 3107131

Ion	Ratio	Lower	Upper
276	100		
138	18.8	12.9	19.3
277	23.6	17.0	25.6

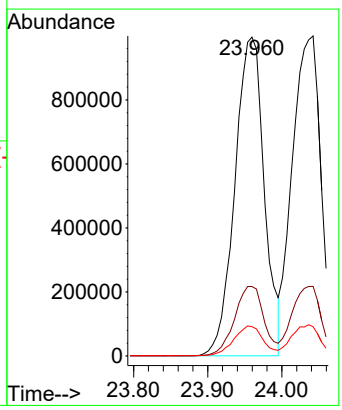


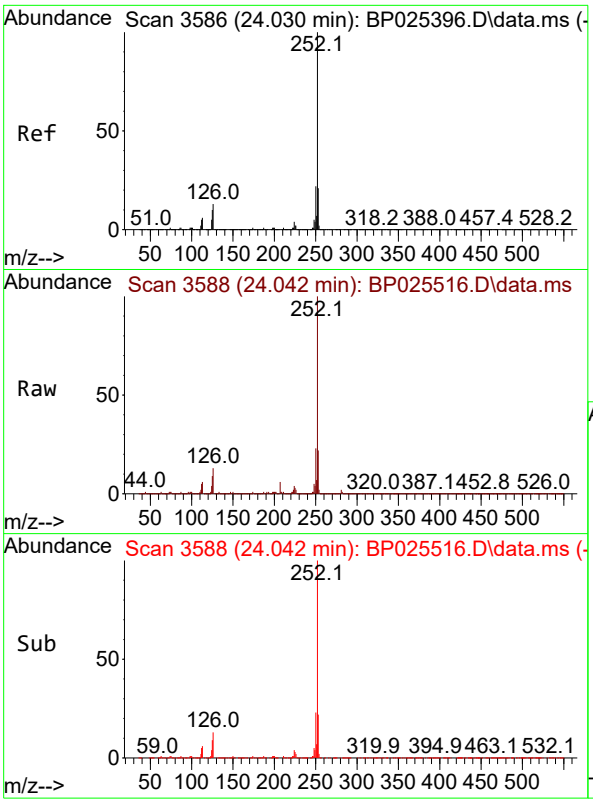


#88
Benzo(b)fluoranthene
Concen: 48.561 ng
RT: 23.960 min Scan# 3574
Delta R.T. 0.006 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:252 Resp: 2744537

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.7	26.5
125	9.2	7.9	11.9



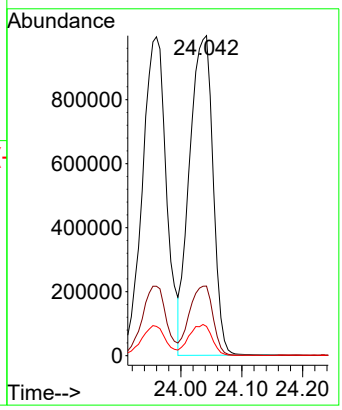


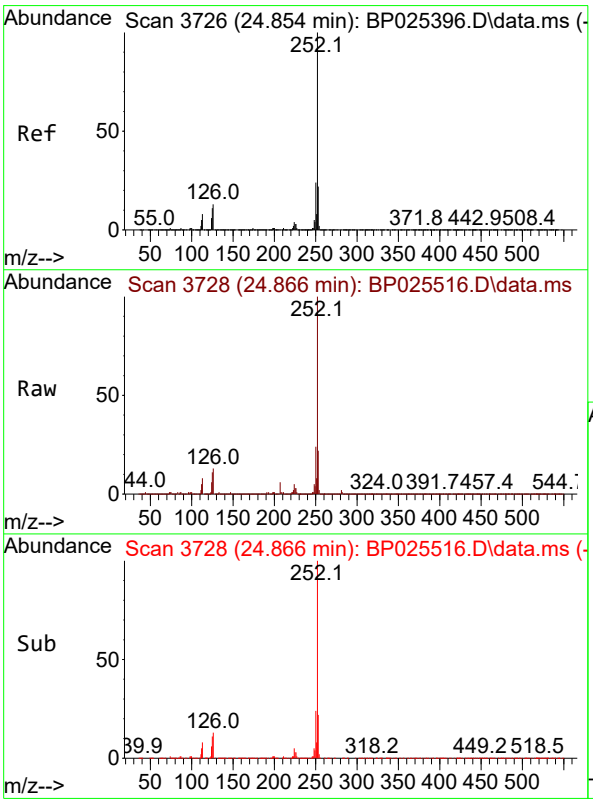
#89
Benzo(k)fluoranthene
Concen: 47.128 ng
RT: 24.042 min Scan# 3
Delta R.T. 0.012 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Instrument :
BNA_P
ClientSampleId :
22BP-WMS

Tgt Ion:252 Resp: 2665398

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.1	25.7
125	9.1	7.8	11.6

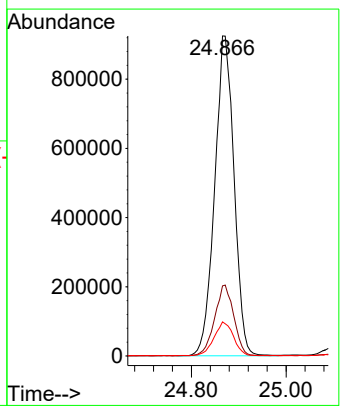


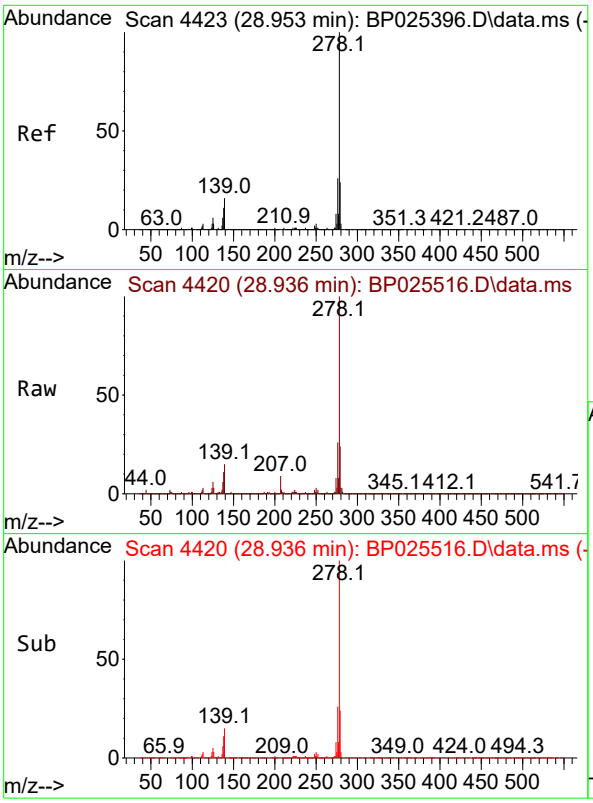


#90
Benzo(a)pyrene
Concen: 47.615 ng
RT: 24.866 min Scan# 3728
Delta R.T. 0.012 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:252 Resp: 2619564

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.5	26.3
125	10.7	8.7	13.1



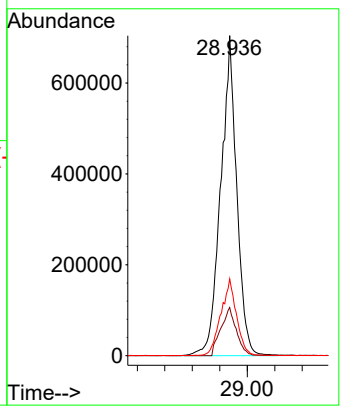


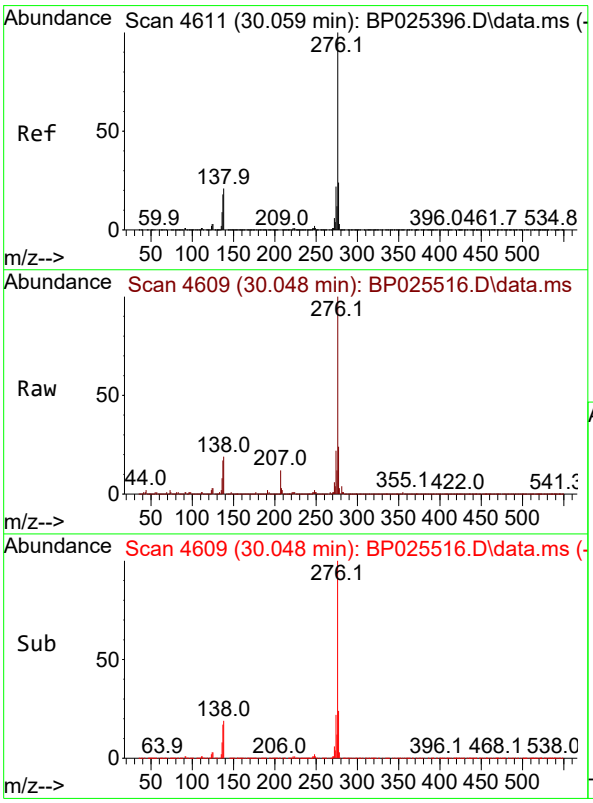
#91
Dibenzo(a,h)anthracene
Concen: 49.664 ng
RT: 28.936 min Scan# 44
Delta R.T. -0.017 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Instrument :
BNA_P
ClientSampleId :
22BP-WMS

Tgt Ion:278 Resp: 2852762

Ion	Ratio	Lower	Upper
278	100		
139	15.1	13.0	19.4
279	24.0	19.4	29.2

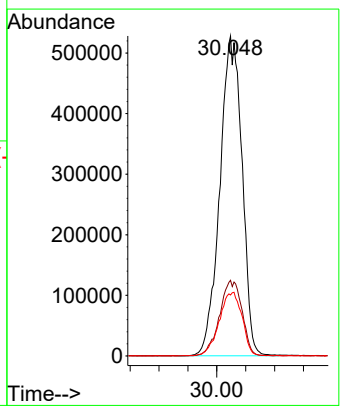




#92
Benzo(g,h,i)perylene
Concen: 49.963 ng
RT: 30.048 min Scan# 4609
Delta R.T. -0.012 min
Lab File: BP025516.D
Acq: 20 Aug 2025 21:11

Tgt Ion:276 Resp: 2821095

Ion	Ratio	Lower	Upper
276	100		
277	23.7	19.4	29.0
138	19.1	16.7	25.1



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025517.D
Acq On : 20 Aug 2025 21:52
Operator : CG/JU
Sample : Q2819-03MSD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
22BP-WMSD

Quant Time: Aug 21 01:38:37 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.790	152	184860	20.000	ng		0.00
21) Naphthalene-d8	10.560	136	722280	20.000	ng		0.00
39) Acenaphthene-d10	14.396	164	447048	20.000	ng		-0.01
64) Phenanthrene-d10	17.207	188	890323	20.000	ng		0.00
76) Chrysene-d12	21.654	240	903947	20.000	ng		0.00
86) Perylene-d12	25.019	264	1025346	20.000	ng		-0.01
System Monitoring Compounds							
5) 2-Fluorophenol	5.408	112	1144678	102.833	ng		0.00
7) Phenol-d6	6.967	99	1445596	101.293	ng		0.00
23) Nitrobenzene-d5	8.931	82	936777	65.608	ng		0.00
42) 2,4,6-Tribromophenol	15.919	330	623372	103.597	ng		0.00
45) 2-Fluorobiphenyl	13.019	172	1983638	60.642	ng		0.00
79) Terphenyl-d14	19.925	244	2999909	60.718	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.331	88	182983	41.967	ng		98
3) Pyridine	3.726	79	493698	41.368	ng		95
4) n-Nitrosodimethylamine	3.631	42	247455	50.295	ng		93
6) Aniline	7.119	93	649735	33.790	ng		97
8) 2-Chlorophenol	7.361	128	608568	48.448	ng		100
9) Benzaldehyde	6.937	77	285008	28.504	ng		97
10) Phenol	6.996	94	715775	47.797	ng		96
11) bis(2-Chloroethyl)ether	7.214	93	538406	46.128	ng		97
12) 1,3-Dichlorobenzene	7.678	146	650335	46.952	ng		99
13) 1,4-Dichlorobenzene	7.825	146	649360	45.868	ng		100
14) 1,2-Dichlorobenzene	8.137	146	625644	45.653	ng		99
15) Benzyl Alcohol	8.025	79	528480	46.605	ng		97
16) 2,2'-oxybis(1-Chloropr...	8.308	45	736456	47.100	ng		98
17) 2-Methylphenol	8.225	107	484474	46.581	ng		99
18) Hexachloroethane	8.861	117	249463	47.925	ng		97
19) n-Nitroso-di-n-propyla...	8.584	70	405488	42.894	ng		95
20) 3+4-Methylphenols	8.549	107	658121	45.649	ng		96
22) Acetophenone	8.596	105	852338	47.056	ng	#	97
24) Nitrobenzene	8.966	77	613843	48.104	ng		99
25) Isophorone	9.496	82	1155702	45.736	ng		98
26) 2-Nitrophenol	9.672	139	323093	49.335	ng		96
27) 2,4-Dimethylphenol	9.737	122	533447	47.366	ng		96
28) bis(2-Chloroethoxy)met...	9.966	93	707355	46.309	ng		99
29) 2,4-Dichlorophenol	10.213	162	555155	49.622	ng		98
30) 1,2,4-Trichlorobenzene	10.419	180	572771	46.702	ng		97
31) Naphthalene	10.613	128	1739431	46.334	ng		99
32) Benzoic acid	9.890	122	431194	51.860	ng		96
33) 4-Chloroaniline	10.708	127	377734	22.779	ng		99
34) Hexachlorobutadiene	10.902	225	370916	48.563	ng		98
35) Caprolactam	11.502	113	187670	45.747	ng		95
36) 4-Chloro-3-methylphenol	11.837	107	615878	47.974	ng		97
37) 2-Methylnaphthalene	12.213	142	1096821	44.896	ng		98
38) 1-Methylnaphthalene	12.437	142	1157054	44.535	ng		100
40) 1,2,4,5-Tetrachloroben...	12.584	216	625693	48.461	ng		98
41) Hexachlorocyclopentadiene	12.566	237	802842	102.943	ng		99
43) 2,4,6-Trichlorophenol	12.825	196	442620	50.780	ng		99

Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025517.D
Acq On : 20 Aug 2025 21:52
Operator : CG/JU
Sample : Q2819-03MSD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
22BP-WMSD

Quant Time: Aug 21 01:38:37 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	12.902	196	490354	51.330	ng		99
46) 1,1'-Biphenyl	13.231	154	1568313	48.304	ng		99
47) 2-Chloronaphthalene	13.272	162	1201838	47.550	ng		99
48) 2-Nitroaniline	13.466	65	380529	51.670	ng		98
49) Acenaphthylene	14.119	152	2000907	47.841	ng		100
50) Dimethylphthalate	13.860	163	1548844	47.312	ng		100
51) 2,6-Dinitrotoluene	13.966	165	342534	49.643	ng		95
52) Acenaphthene	14.466	154	1145454	46.659	ng		98
53) 3-Nitroaniline	14.296	138	234663	30.228	ng		92
54) 2,4-Dinitrophenol	14.513	184	436661	118.504	ng		98
55) Dibenzofuran	14.807	168	1839493	47.393	ng		98
56) 4-Nitrophenol	14.625	139	653354	102.419	ng		93
57) 2,4-Dinitrotoluene	14.766	165	502093	51.002	ng		97
58) Fluorene	15.466	166	1413344	46.148	ng		99
59) 2,3,4,6-Tetrachlorophenol	15.037	232	422581	50.097	ng		98
60) Diethylphthalate	15.243	149	1602496	48.175	ng		100
61) 4-Chlorophenyl-phenyle...	15.460	204	704890	46.278	ng		97
62) 4-Nitroaniline	15.484	138	380825	47.851	ng		96
63) Azobenzene	15.760	77	1553558	54.544	ng		98
65) 4,6-Dinitro-2-methylph...	15.548	198	287397	51.785	ng		92
66) n-Nitrosodiphenylamine	15.678	169	1274387	46.939	ng		99
67) 4-Bromophenyl-phenylether	16.372	248	460977	47.077	ng		95
68) Hexachlorobenzene	16.495	284	537114	47.319	ng		100
69) Atrazine	16.660	200	502043	49.377	ng		98
70) Pentachlorophenol	16.854	266	733038	102.305	ng		98
71) Phenanthrene	17.254	178	2332780	47.697	ng		100
72) Anthracene	17.348	178	2303551	46.121	ng		100
73) Carbazole	17.625	167	2239338	47.601	ng		99
74) Di-n-butylphthalate	18.219	149	2892663	49.977	ng		100
75) Fluoranthene	19.336	202	2780027	47.653	ng		99
77) Benzidine	19.531	184	1311867	42.524	ng		99
78) Pyrene	19.713	202	2862551	48.721	ng		99
80) Butylbenzylphthalate	20.654	149	1352098	50.777	ng		99
81) Benzo(a)anthracene	21.636	228	2870654	48.153	ng		100
82) 3,3'-Dichlorobenzidine	21.548	252	747438	33.263	ng		99
83) Chrysene	21.701	228	2684186	48.078	ng		99
84) Bis(2-ethylhexyl)phtha...	21.572	149	1972886	50.332	ng		99
85) Di-n-octyl phthalate	22.860	149	3483541	51.668	ng		99
87) Indeno(1,2,3-cd)pyrene	28.871	276	1787509	23.772	ng	#	78
88) Benzo(b)fluoranthene	23.942	252	3016187	49.886	ng		99
89) Benzo(k)fluoranthene	24.024	252	2975796	49.184	ng		99
90) Benzo(a)pyrene	24.866	252	2906291	49.381	ng		100
91) Dibenzo(a,h)anthracene	28.959	278	3060770	49.809	ng		98
92) Benzo(g,h,i)perylene	30.059	276	3035965	50.261	ng		99

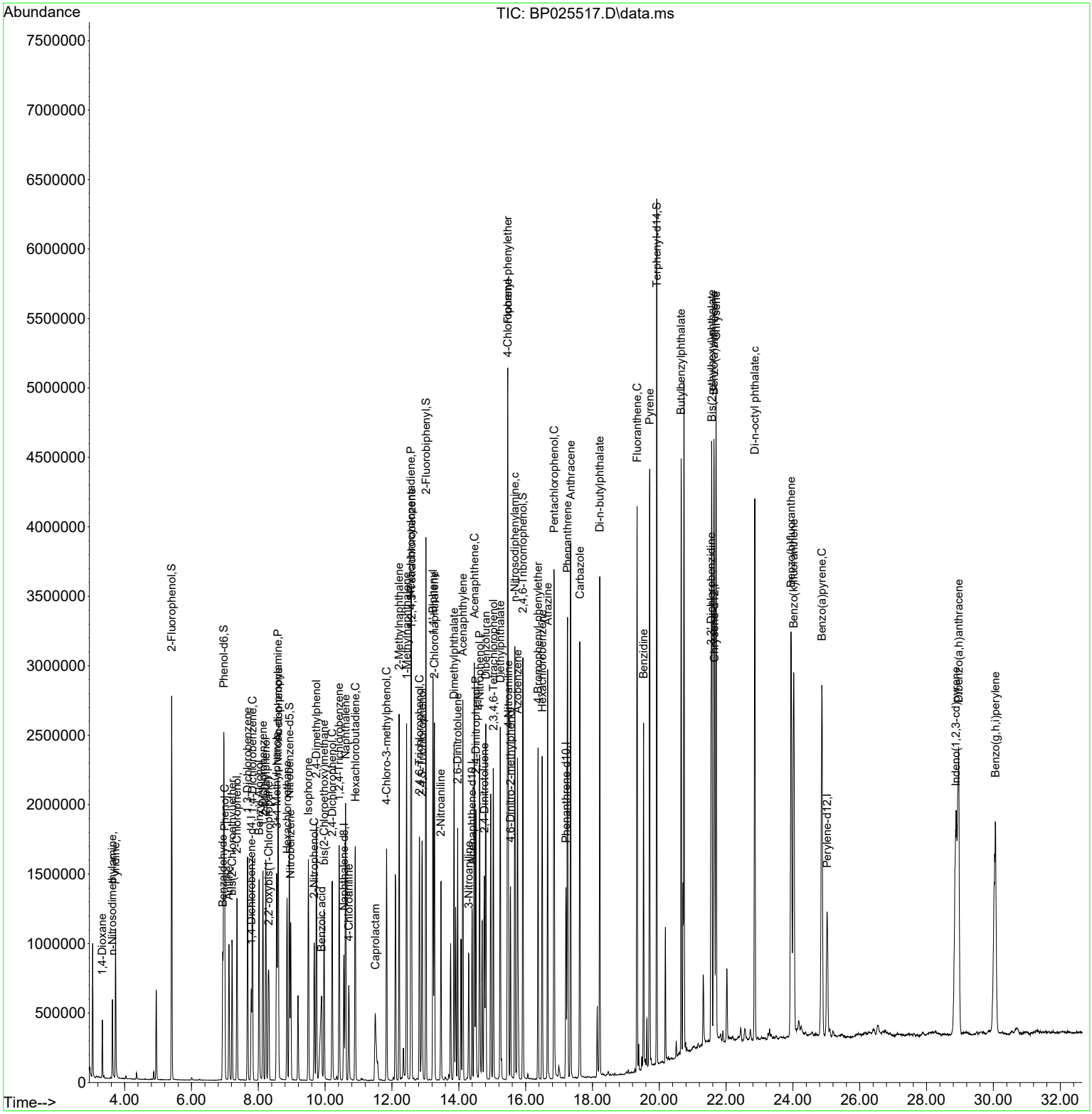
(#) = qualifier out of range (m) = manual integration (+) = signals summed

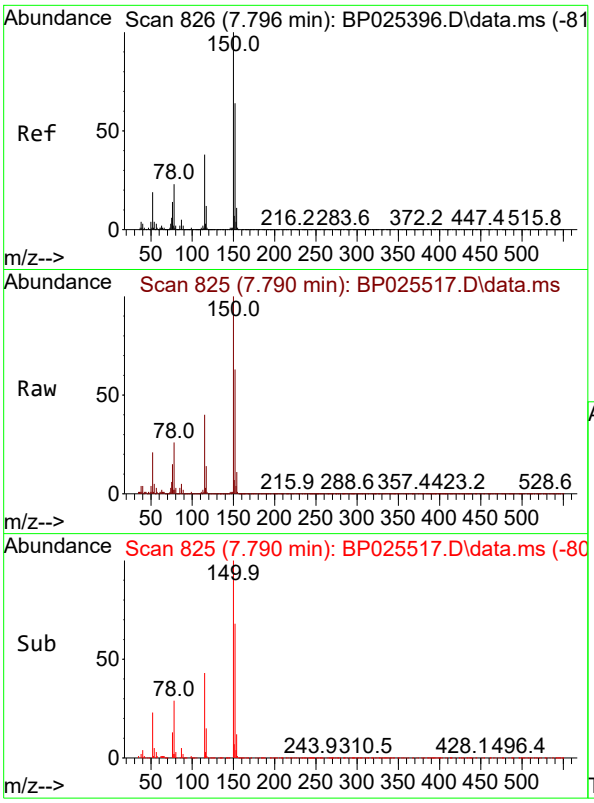
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025517.D
Acq On : 20 Aug 2025 21:52
Operator : CG/JU
Sample : Q2819-03MSD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
22BP-WMSD

Quant Time: Aug 21 01:38:37 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration



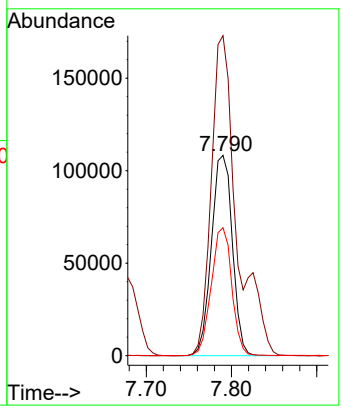


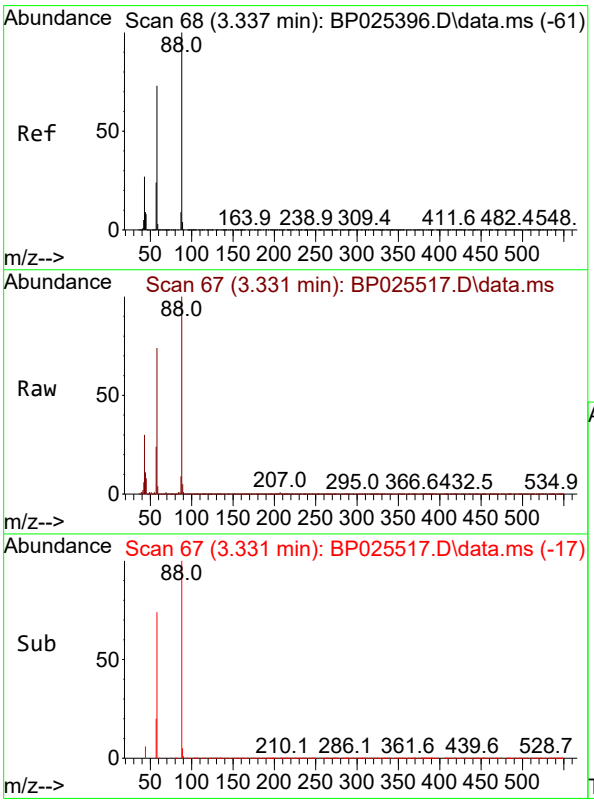
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.790 min Scan# 8
Delta R.T. -0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Instrument :
BNA_P
ClientSampleId :
22BP-WMSD

Tgt Ion:152 Resp: 184860

Ion	Ratio	Lower	Upper
152	100		
150	159.8	125.9	188.9
115	63.9	48.5	72.7

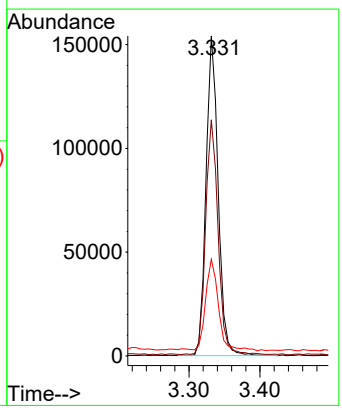


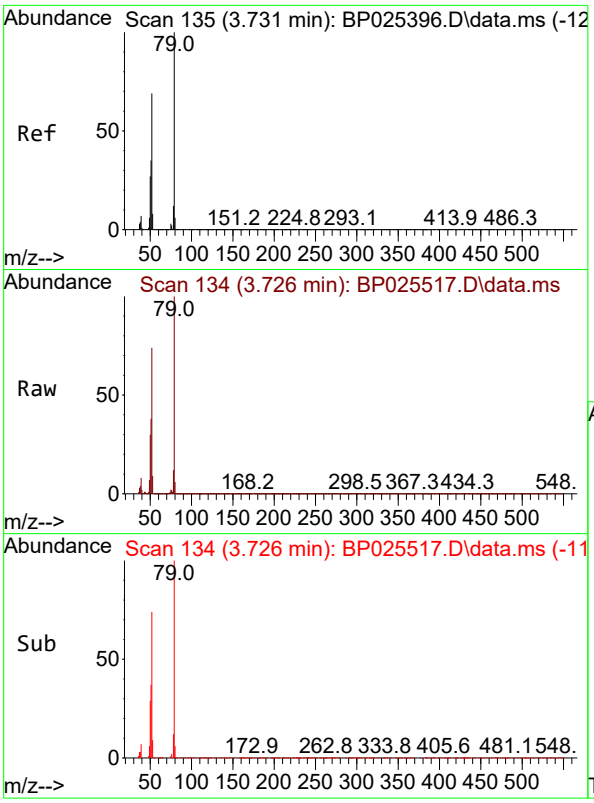


#2
1,4-Dioxane
Concen: 41.967 ng
RT: 3.331 min Scan# 67
Delta R.T. -0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion: 88 Resp: 182983

Ion	Ratio	Lower	Upper
88	100		
58	75.4	59.2	88.8
43	29.6	21.7	32.5



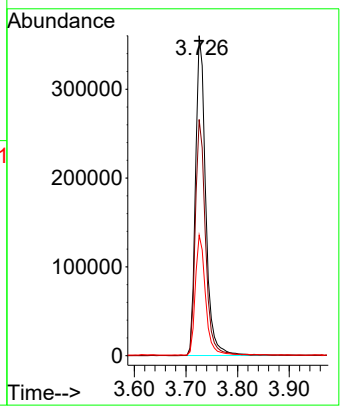


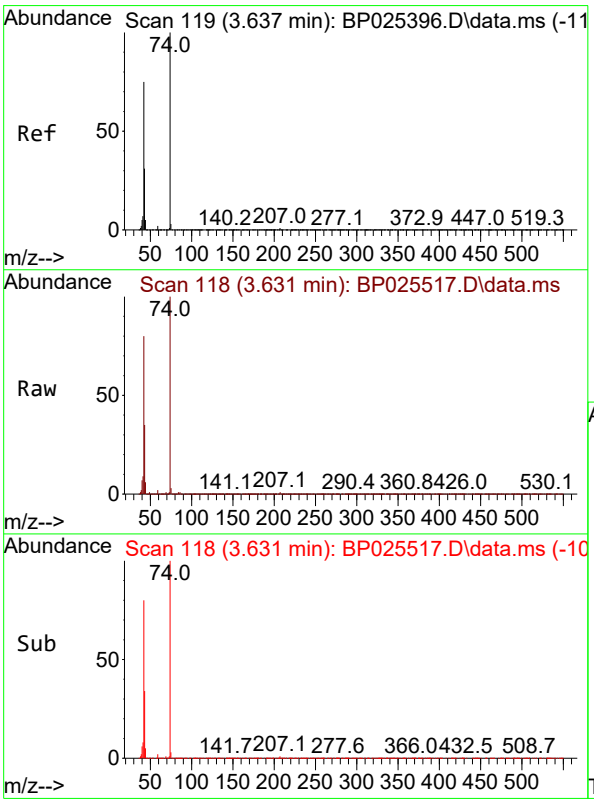
#3
Pyridine
Concen: 41.368 ng
RT: 3.726 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Instrument :
BNA_P
ClientSampleId :
22BP-WMSD

Tgt Ion: 79 Resp: 493698

Ion	Ratio	Lower	Upper
79	100		
52	73.8	55.5	83.3
51	37.6	28.3	42.5

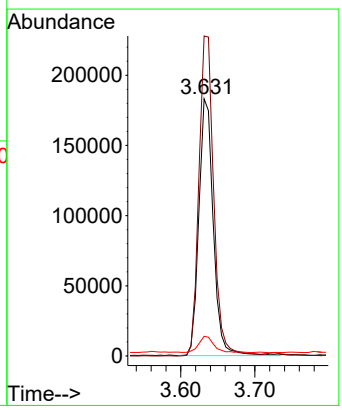


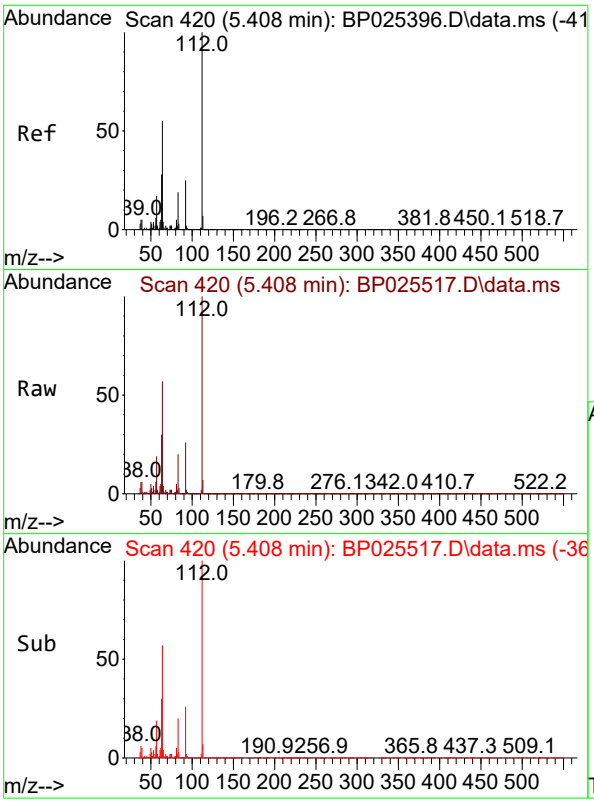


#4
n-Nitrosodimethylamine
Concen: 50.295 ng
RT: 3.631 min Scan# 118
Delta R.T. -0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion: 42 Resp: 247455

Ion	Ratio	Lower	Upper
42	100		
74	124.4	107.0	160.4
44	7.6	6.2	9.4



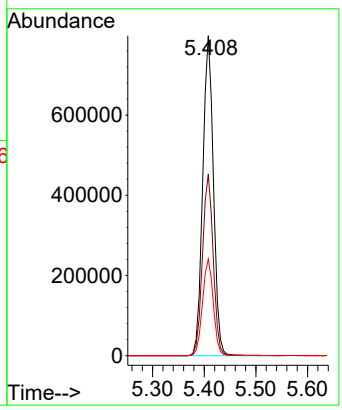


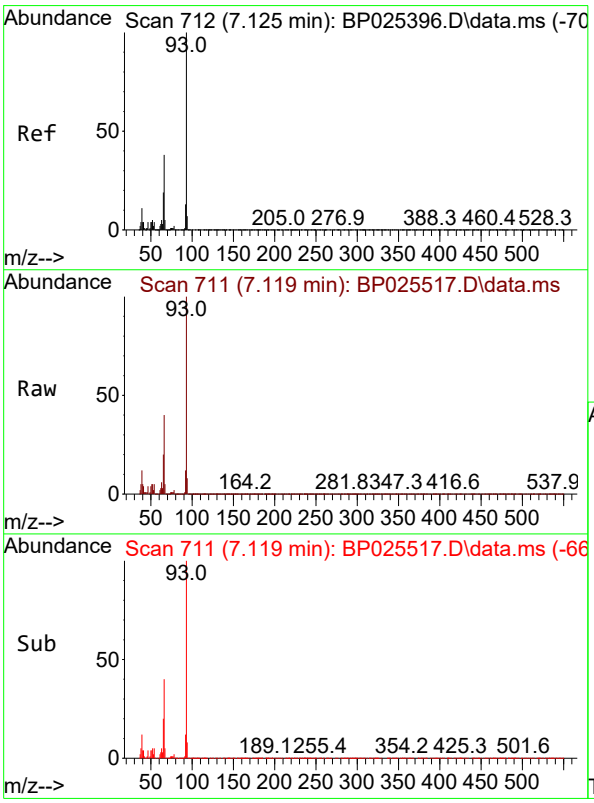
#5
2-Fluorophenol
Concen: 102.833 ng
RT: 5.408 min Scan# 4
Delta R.T. 0.000 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Instrument :
BNA_P
ClientSampleId :
22BP-WMSD

Tgt Ion:112 Resp: 1144678

Ion	Ratio	Lower	Upper
112	100		
64	56.7	43.8	65.8
63	30.2	22.7	34.1

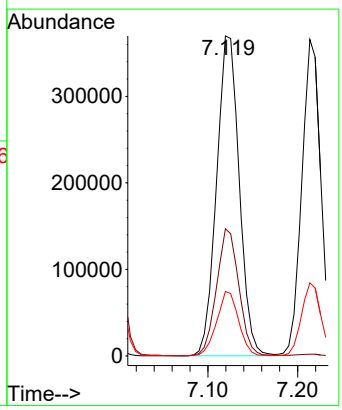


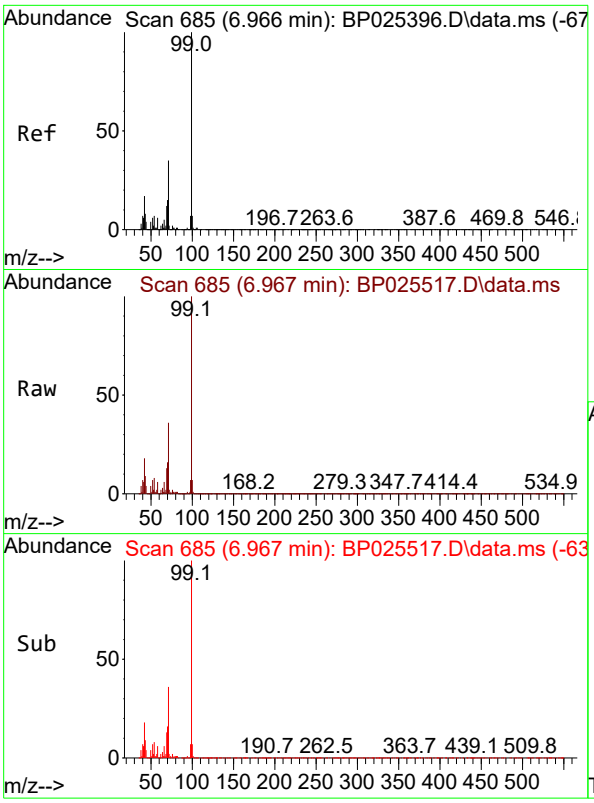


#6
Aniline
Concen: 33.790 ng
RT: 7.119 min Scan# 711
Delta R.T. -0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion: 93 Resp: 649735

Ion	Ratio	Lower	Upper
93	100		
66	39.8	30.4	45.6
65	20.1	15.3	22.9



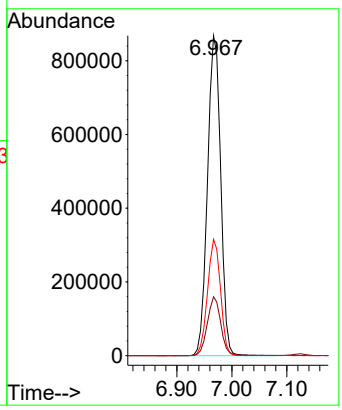


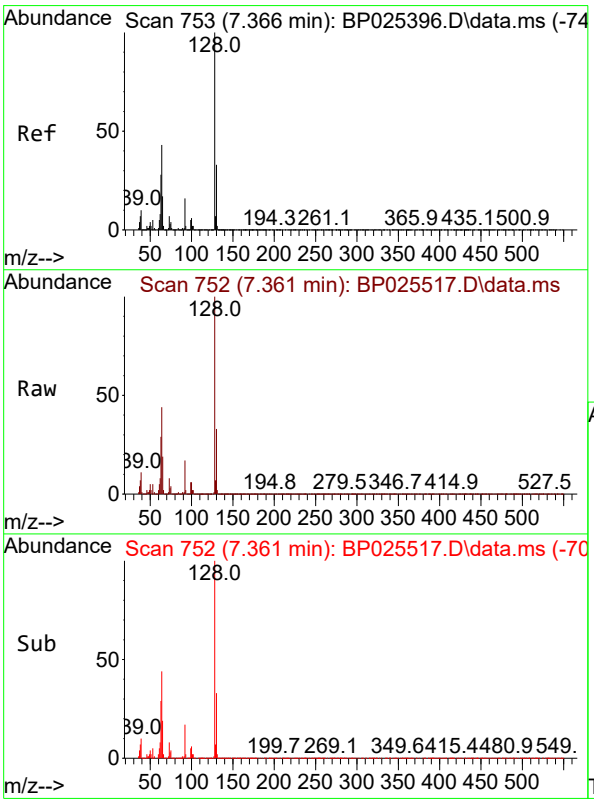
#7
Phenol-d6
Concen: 101.293 ng
RT: 6.967 min Scan# 6
Delta R.T. 0.000 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Instrument :
BNA_P
ClientSampleId :
22BP-WMSD

Tgt Ion: 99 Resp: 1445596

Ion	Ratio	Lower	Upper
99	100		
42	18.4	13.7	20.5
71	36.4	28.2	42.4

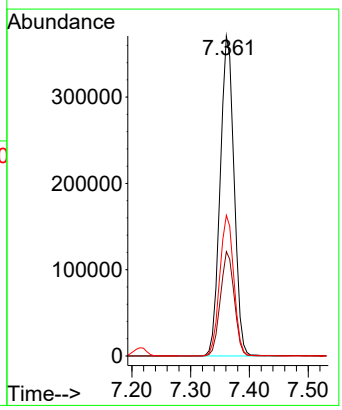


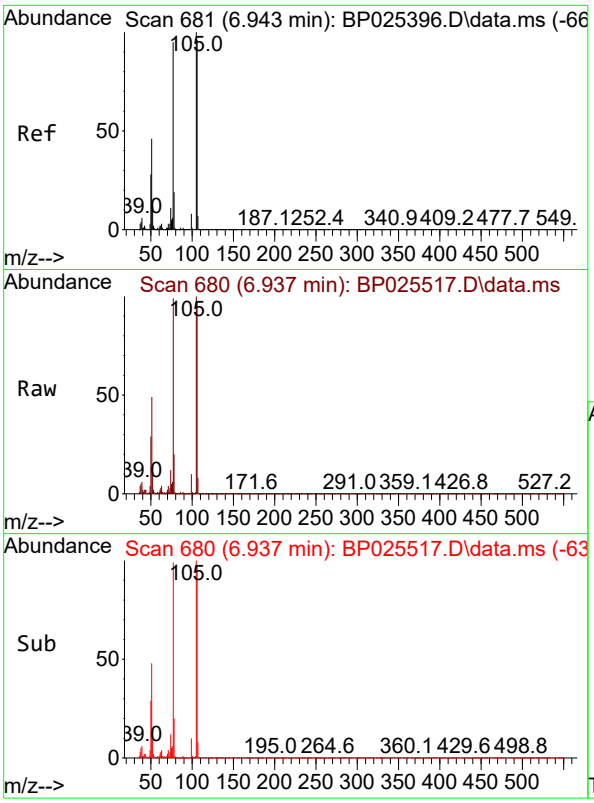


#8
2-Chlorophenol
Concen: 48.448 ng
RT: 7.361 min Scan# 752
Delta R.T. -0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:128 Resp: 608568

Ion	Ratio	Lower	Upper
128	100		
130	32.6	12.6	52.6
64	44.0	23.4	63.4



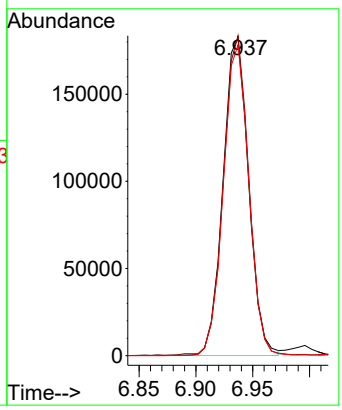


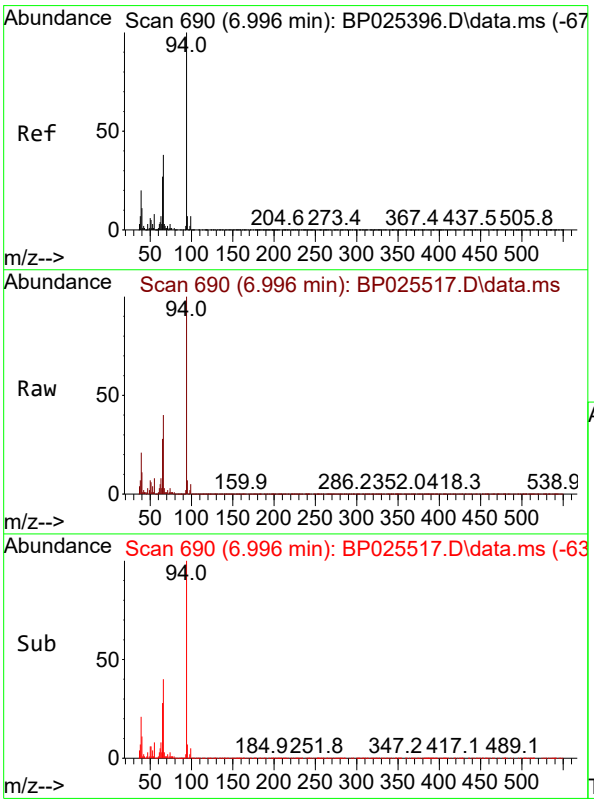
#9
Benzaldehyde
Concen: 28.504 ng
RT: 6.937 min Scan# 6
Delta R.T. -0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Instrument :
BNA_P
ClientSampleId :
22BP-WMSD

Tgt Ion: 77 Resp: 285008

Ion	Ratio	Lower	Upper
77	100		
105	100.8	84.8	124.8
106	97.9	80.5	120.5

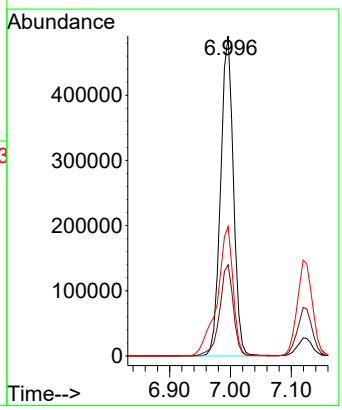


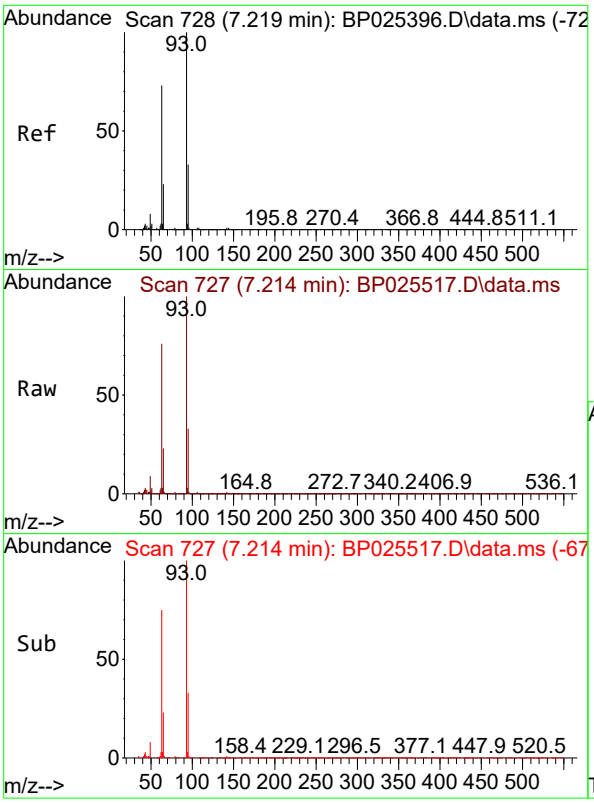


#10
Phenol
Concen: 47.797 ng
RT: 6.996 min Scan# 690
Delta R.T. 0.000 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion: 94 Resp: 715775

Ion	Ratio	Lower	Upper
94	100		
65	28.5	6.8	46.8
66	40.5	18.2	58.2



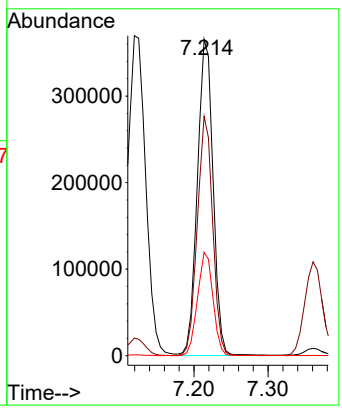


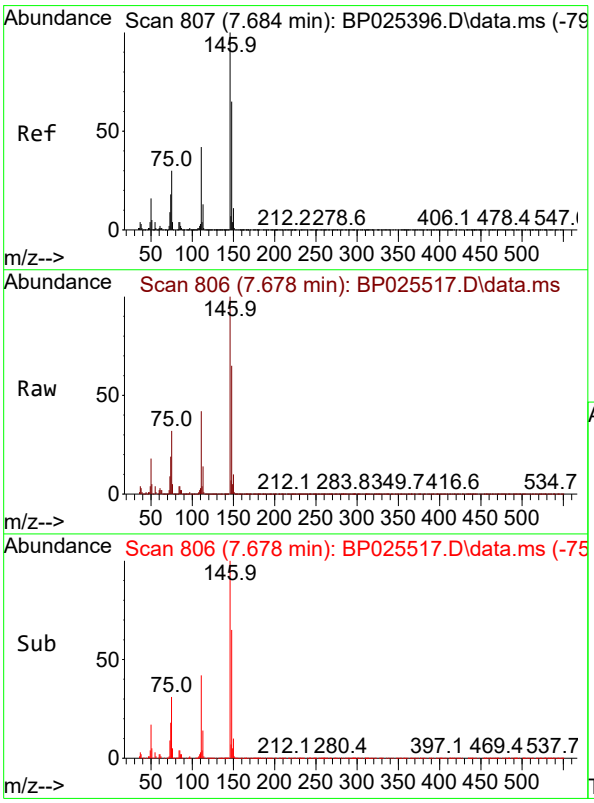
#11
bis(2-Chloroethyl)ether
Concen: 46.128 ng
RT: 7.214 min Scan# 7
Delta R.T. -0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Instrument :
BNA_P
ClientSampleId :
22BP-WMSD

Tgt Ion: 93 Resp: 538406

Ion	Ratio	Lower	Upper
93	100		
63	75.6	52.6	92.6
95	32.7	12.7	52.7

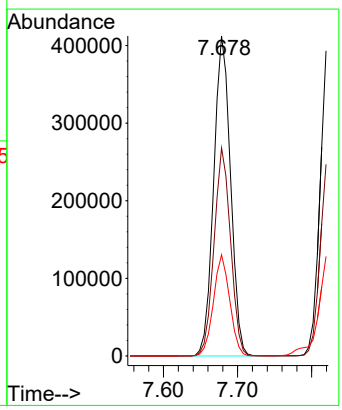


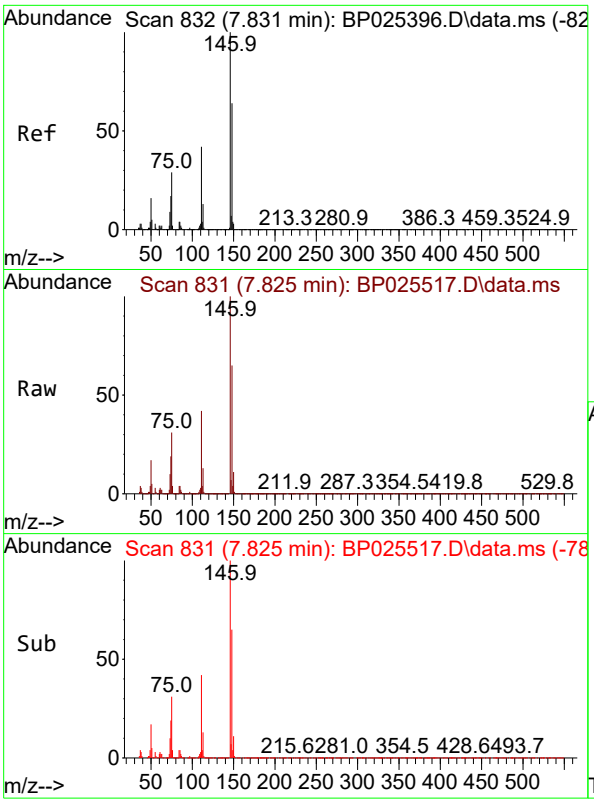


#12
1,3-Dichlorobenzene
Concen: 46.952 ng
RT: 7.678 min Scan# 806
Delta R.T. -0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:146 Resp: 650335

Ion	Ratio	Lower	Upper
146	100		
148	65.0	51.9	77.9
75	31.6	23.7	35.5



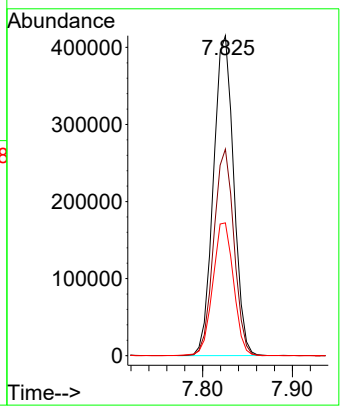


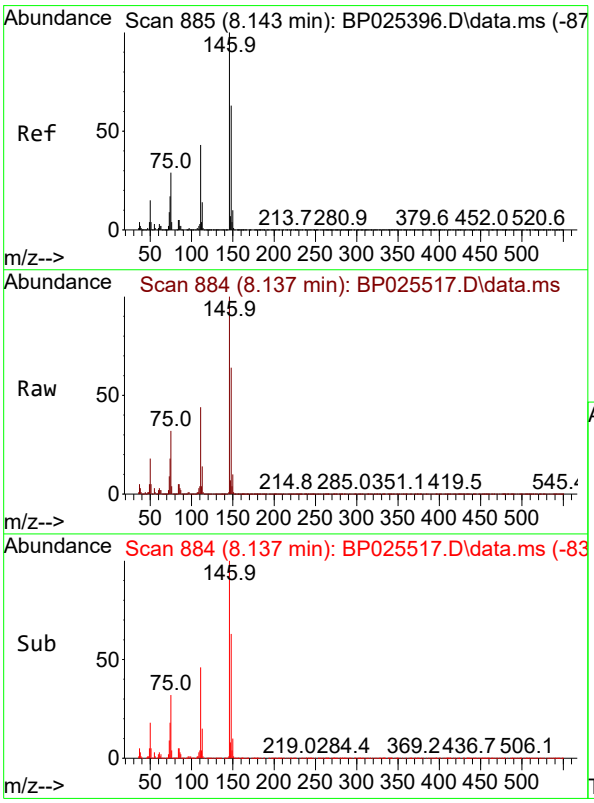
#13
1,4-Dichlorobenzene
Concen: 45.868 ng
RT: 7.825 min Scan# 8
Delta R.T. -0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Instrument :
BNA_P
ClientSampleId :
22BP-WMSD

Tgt Ion:146 Resp: 649360

Ion	Ratio	Lower	Upper
146	100		
148	64.6	51.6	77.4
111	41.5	33.4	50.0

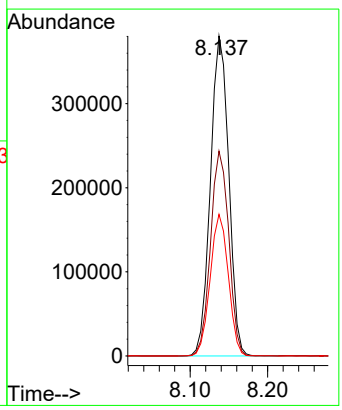


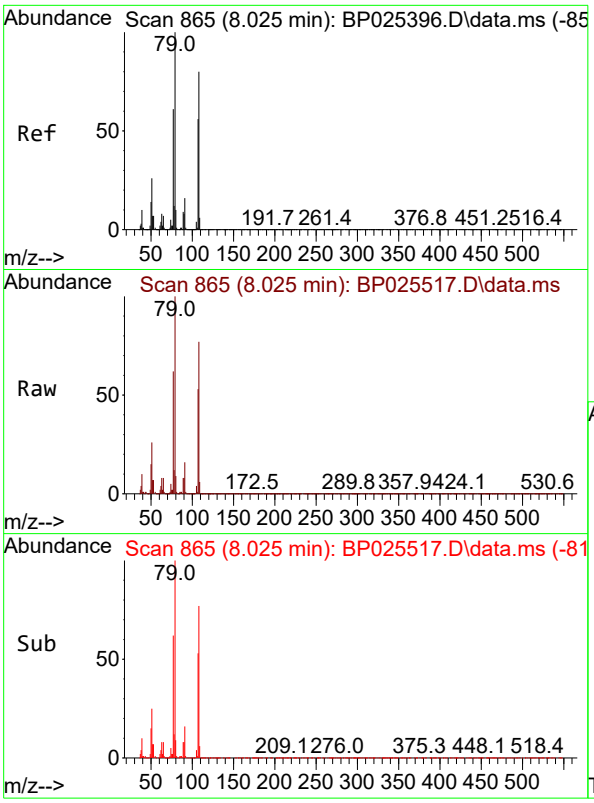


#14
1,2-Dichlorobenzene
Concen: 45.653 ng
RT: 8.137 min Scan# 884
Delta R.T. -0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:146 Resp: 625644

Ion	Ratio	Lower	Upper
146	100		
148	64.0	50.4	75.6
111	44.2	34.5	51.7



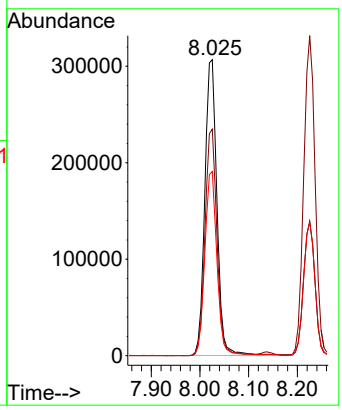


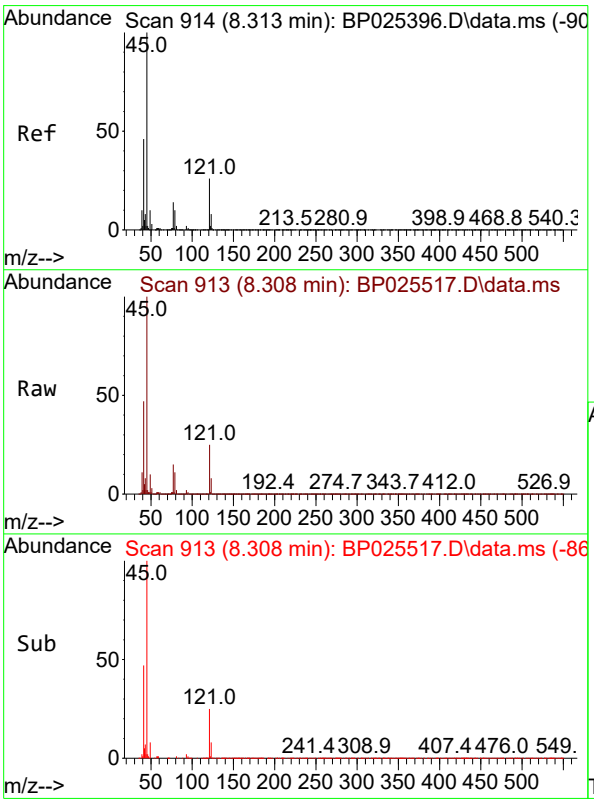
#15
Benzyl Alcohol
Concen: 46.605 ng
RT: 8.025 min Scan# 8
Delta R.T. 0.000 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Instrument :
BNA_P
ClientSampleId :
22BP-WMSD

Tgt Ion: 79 Resp: 528480

Ion	Ratio	Lower	Upper
79	100		
108	76.5	63.8	95.6
77	62.2	49.0	73.4

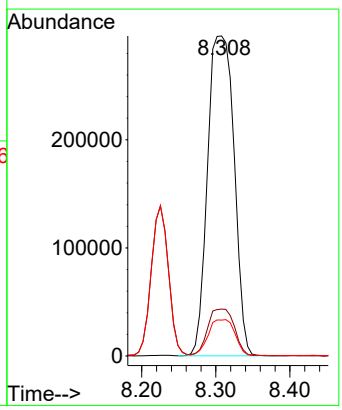


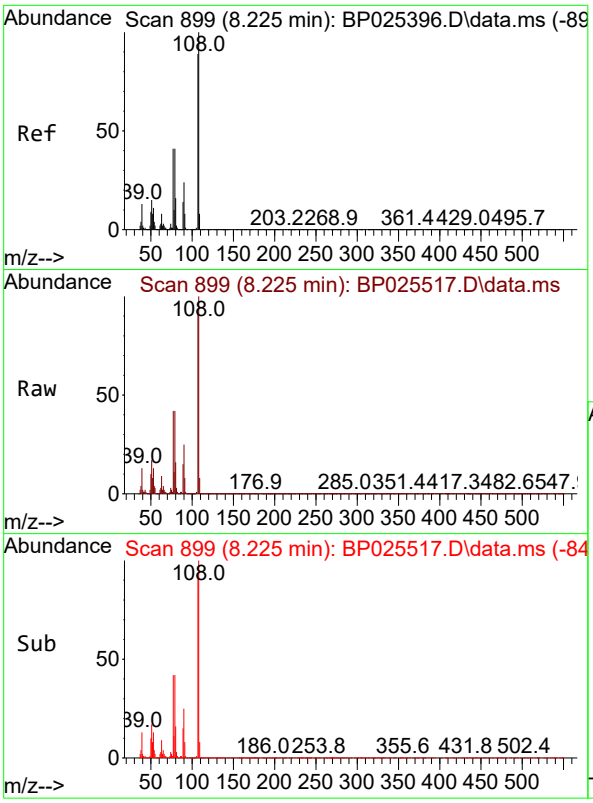


#16
2,2'-oxybis(1-Chloropropane)
Concen: 47.100 ng
RT: 8.308 min Scan# 913
Delta R.T. -0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion: 45 Resp: 736456

Ion	Ratio	Lower	Upper
45	100		
77	14.7	0.0	35.3
79	11.2	0.0	31.8



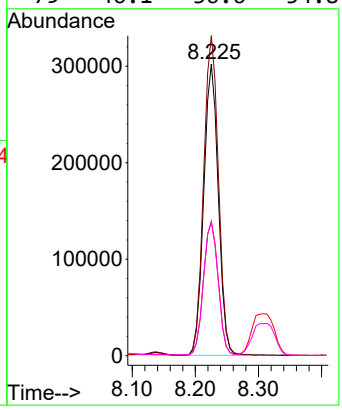


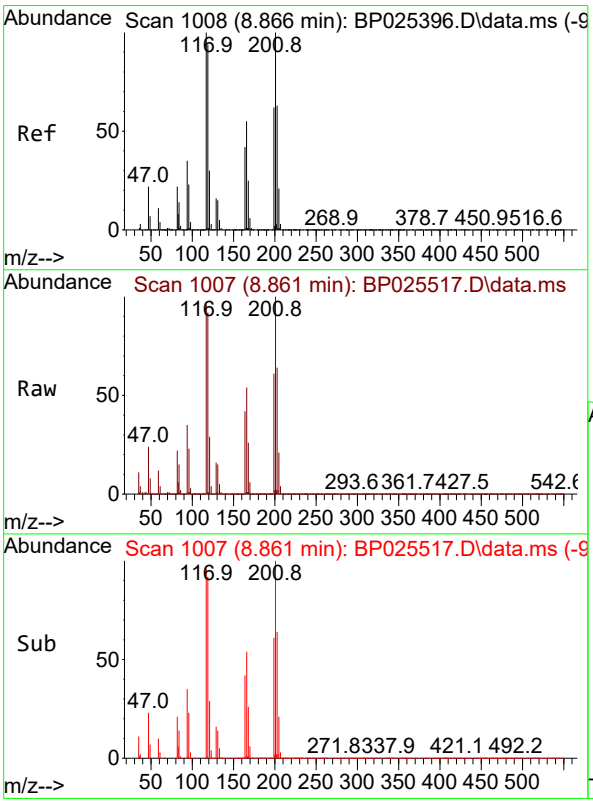
#17
2-Methylphenol
Concen: 46.581 ng
RT: 8.225 min Scan# 8
Delta R.T. 0.000 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Instrument :
BNA_P
ClientSampleId :
22BP-WMSD

Tgt Ion:107 Resp: 484474

Ion	Ratio	Lower	Upper
107	100		
108	109.7	89.4	134.0
77	45.9	36.3	54.5
79	46.1	36.6	54.8

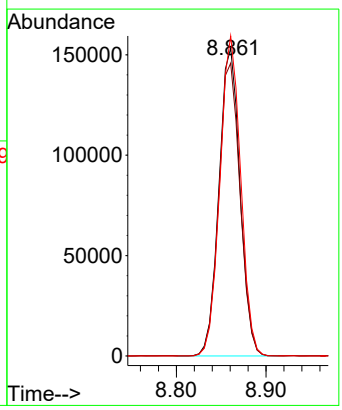


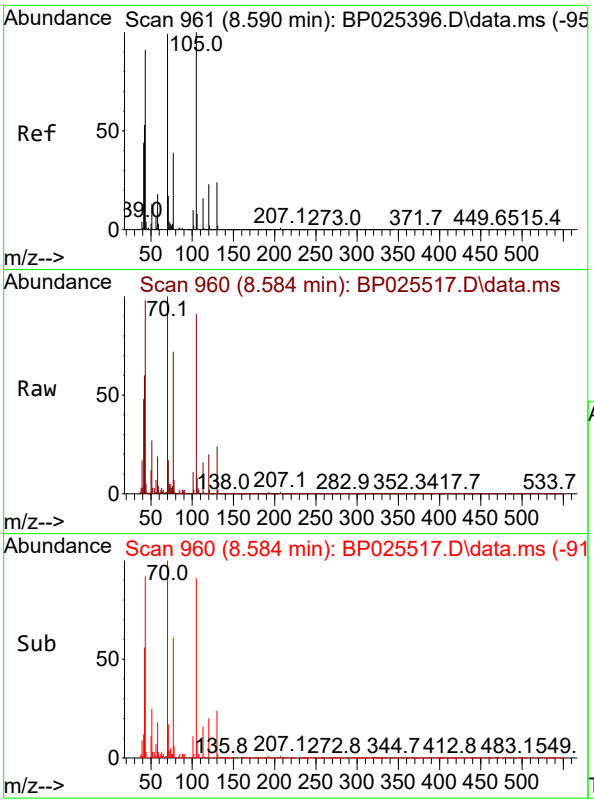


#18
Hexachloroethane
Concen: 47.925 ng
RT: 8.861 min Scan# 1007
Delta R.T. -0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:117 Resp: 249463

Ion	Ratio	Lower	Upper
117	100		
119	95.2	75.1	112.7
201	104.0	80.1	120.1



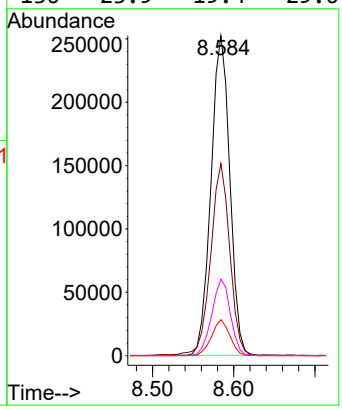


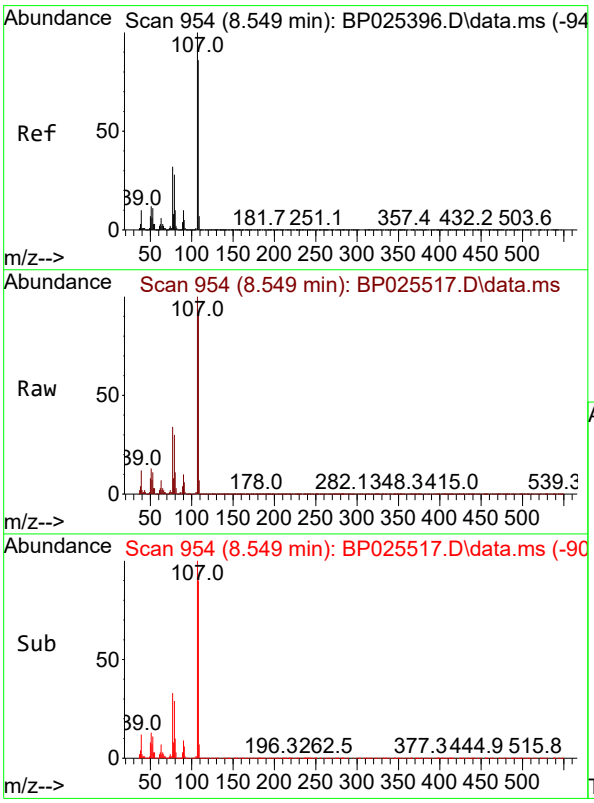
#19
n-Nitroso-di-n-propylamine
Concen: 42.894 ng
RT: 8.584 min Scan# 9
Delta R.T. -0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Instrument :
BNA_P
ClientSampleId :
22BP-WMSD

Tgt Ion: 70 Resp: 405488

Ion	Ratio	Lower	Upper
70	100		
42	60.0	43.8	65.6
101	11.3	8.5	12.7
130	23.9	19.4	29.0

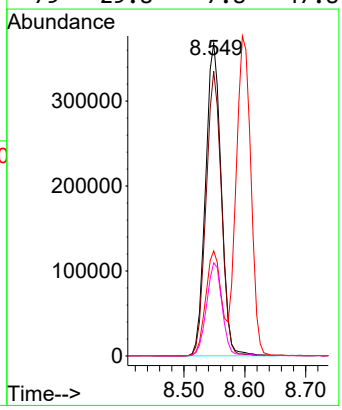


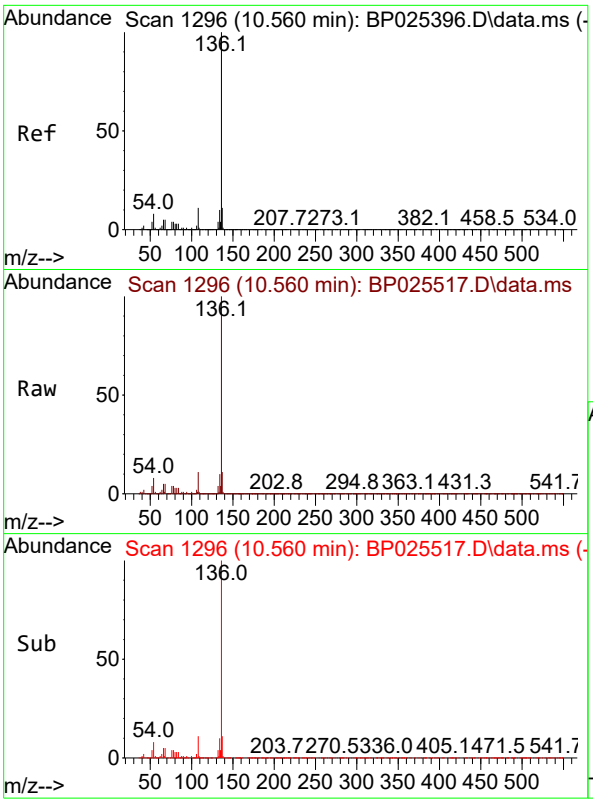


#20
3+4-Methylphenols
Concen: 45.649 ng
RT: 8.549 min Scan# 954
Delta R.T. 0.000 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:107 Resp: 658121

Ion	Ratio	Lower	Upper
107	100		
108	91.0	66.3	106.3
77	33.6	12.3	52.3
79	29.8	7.8	47.8



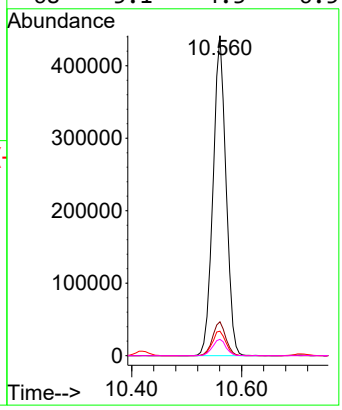


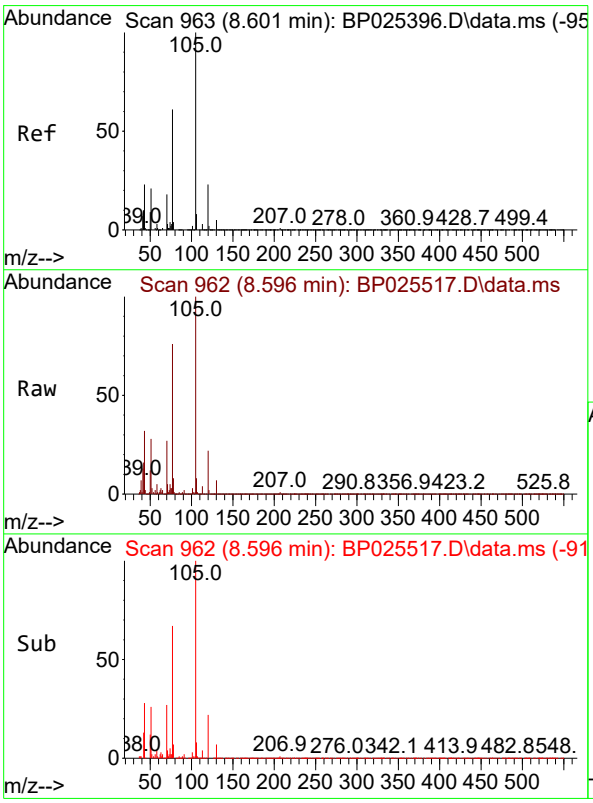
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.560 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Instrument :
BNA_P
ClientSampleId :
22BP-WMSD

Tgt Ion:136 Resp: 722280

Ion	Ratio	Lower	Upper
136	100		
137	10.6	9.2	13.8
54	7.7	6.0	9.0
68	5.1	4.3	6.5

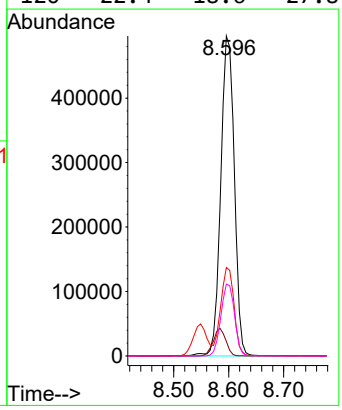


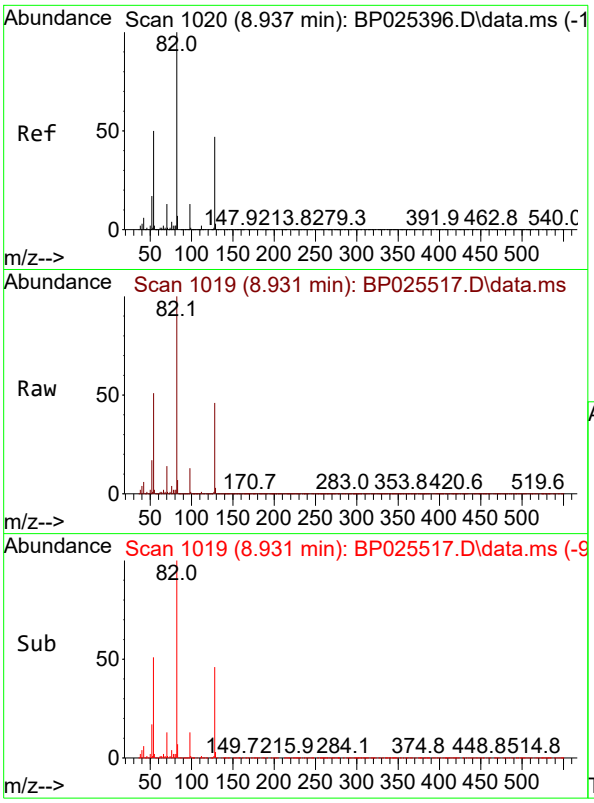


#22
Acetophenone
Concen: 47.056 ng
RT: 8.596 min Scan# 962
Delta R.T. -0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:105 Resp: 852338

Ion	Ratio	Lower	Upper
105	100		
71	4.5	2.6	4.0#
51	27.7	20.6	30.8
120	22.4	18.6	27.8



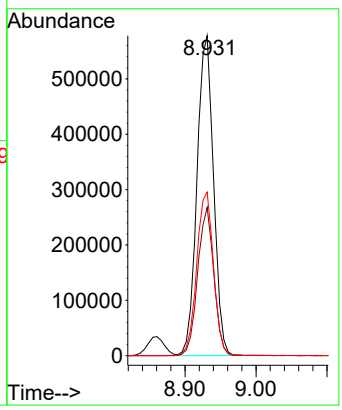


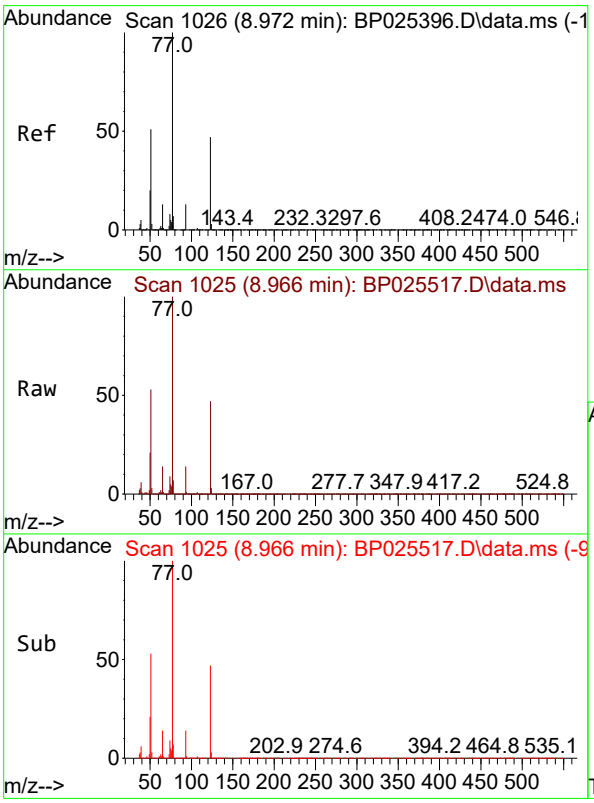
#23
Nitrobenzene-d5
Concen: 65.608 ng
RT: 8.931 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Instrument :
BNA_P
ClientSampleId :
22BP-WMSD

Tgt Ion: 82 Resp: 936777

Ion	Ratio	Lower	Upper
82	100		
128	46.4	37.7	56.5
54	51.1	39.8	59.6

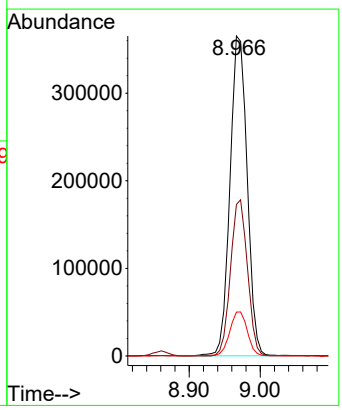


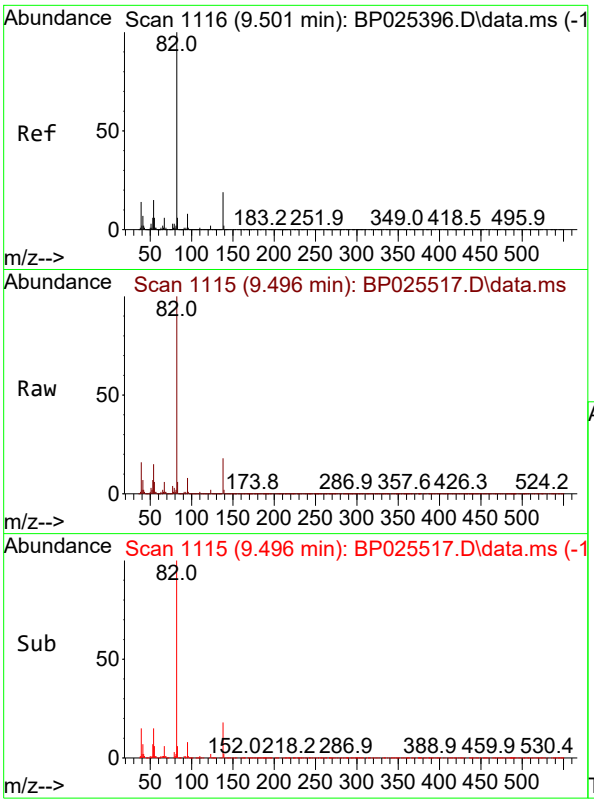


#24
Nitrobenzene
Concen: 48.104 ng
RT: 8.966 min Scan# 1025
Delta R.T. -0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion: 77 Resp: 613843

Ion	Ratio	Lower	Upper
77	100		
123	47.3	38.6	58.0
65	13.7	10.6	15.8



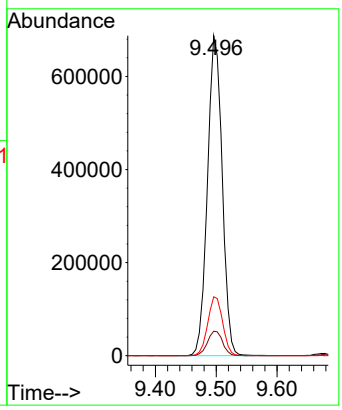


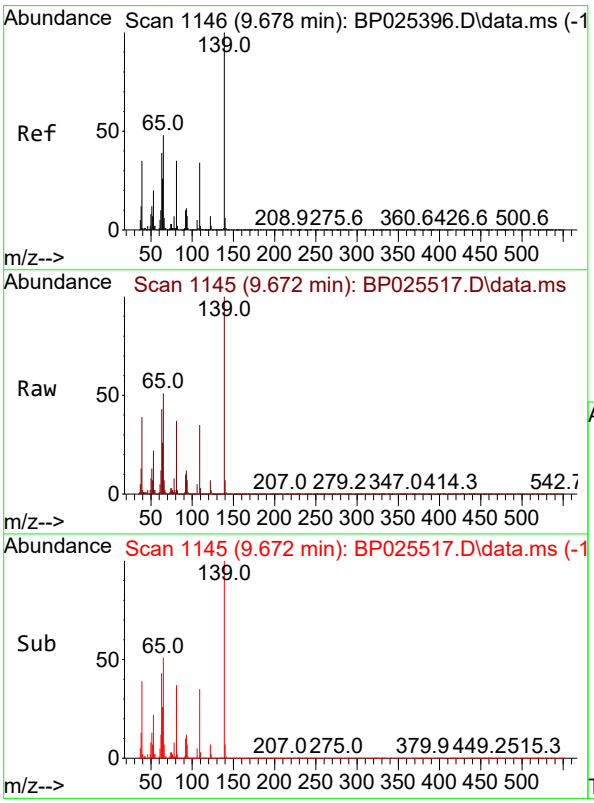
#25
Isophorone
Concen: 45.736 ng
RT: 9.496 min Scan# 11
Delta R.T. -0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Instrument :
BNA_P
ClientSampleId :
22BP-WMSD

Tgt Ion: 82 Resp: 1155702

Ion	Ratio	Lower	Upper
82	100		
95	7.7	6.4	9.6
138	18.4	15.4	23.0

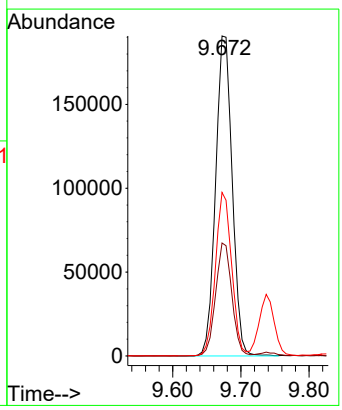


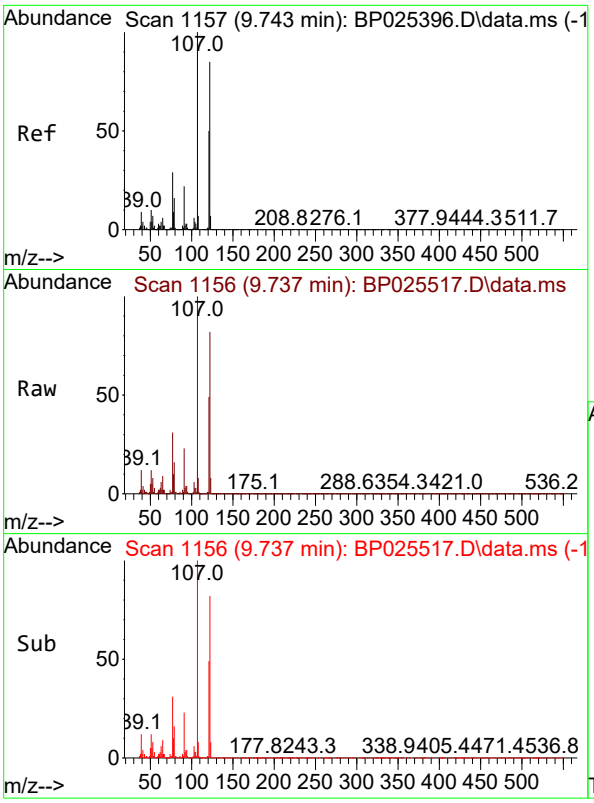


#26
2-Nitrophenol
Concen: 49.335 ng
RT: 9.672 min Scan# 1145
Delta R.T. -0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:139 Resp: 323093

Ion	Ratio	Lower	Upper
139	100		
109	35.3	26.9	40.3
65	51.1	38.3	57.5



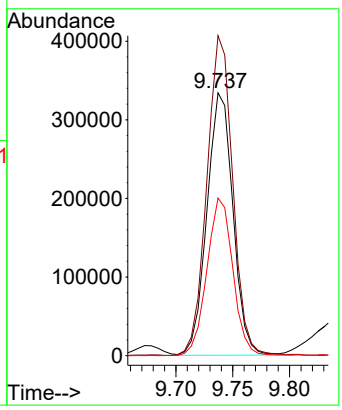


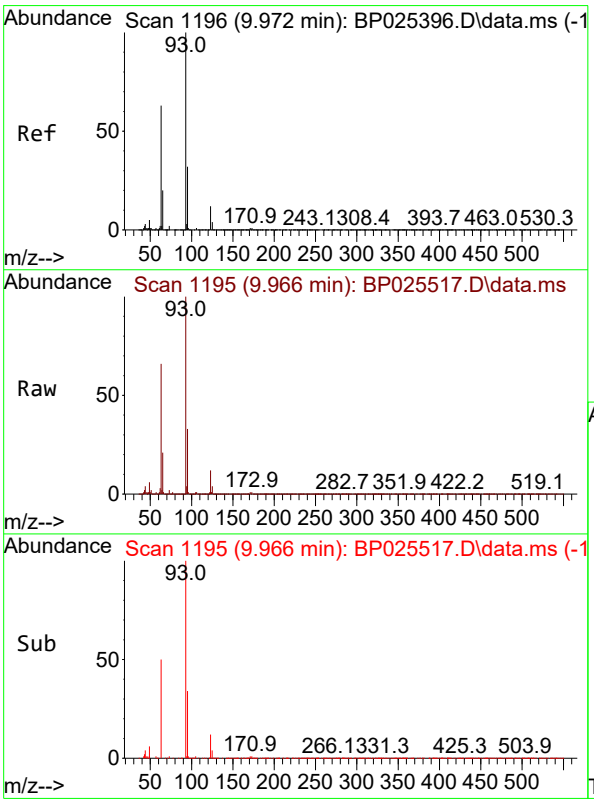
#27
2,4-Dimethylphenol
Concen: 47.366 ng
RT: 9.737 min Scan# 11
Delta R.T. -0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Instrument :
BNA_P
ClientSampleId :
22BP-WMSD

Tgt Ion:122 Resp: 533447

Ion	Ratio	Lower	Upper
122	100		
107	121.7	93.7	140.5
121	59.9	46.6	69.8

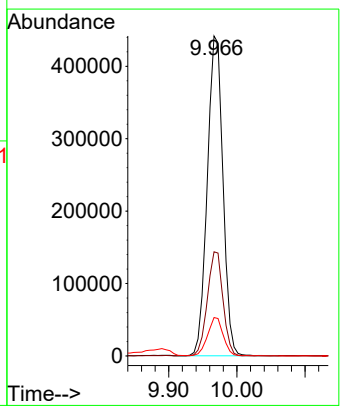


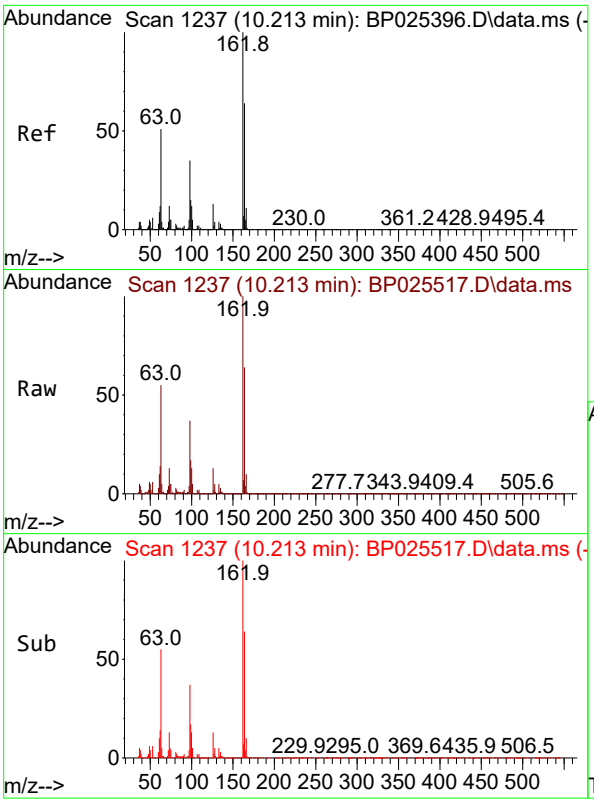


#28
bis(2-Chloroethoxy)methane
Concen: 46.309 ng
RT: 9.966 min Scan# 1195
Delta R.T. -0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion: 93 Resp: 707355

Ion	Ratio	Lower	Upper
93	100		
95	32.6	25.4	38.0
123	12.0	9.4	14.0



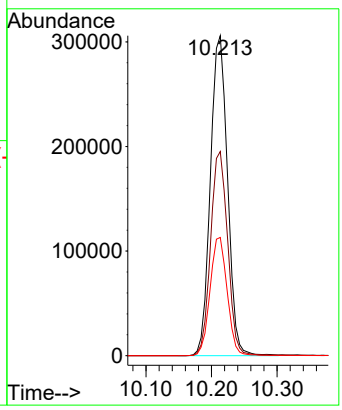


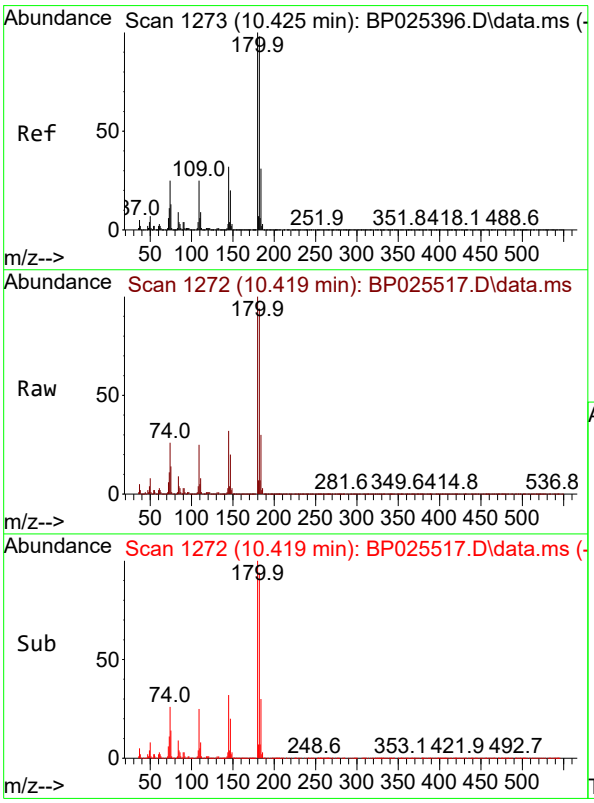
#29
2,4-Dichlorophenol
Concen: 49.622 ng
RT: 10.213 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Instrument :
BNA_P
ClientSampleId :
22BP-WMSD

Tgt Ion:162 Resp: 555155

Ion	Ratio	Lower	Upper
162	100		
164	63.8	44.4	84.4
98	37.0	14.9	54.9

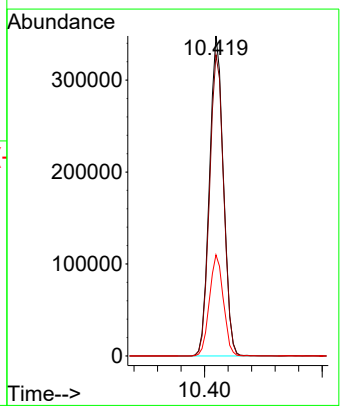


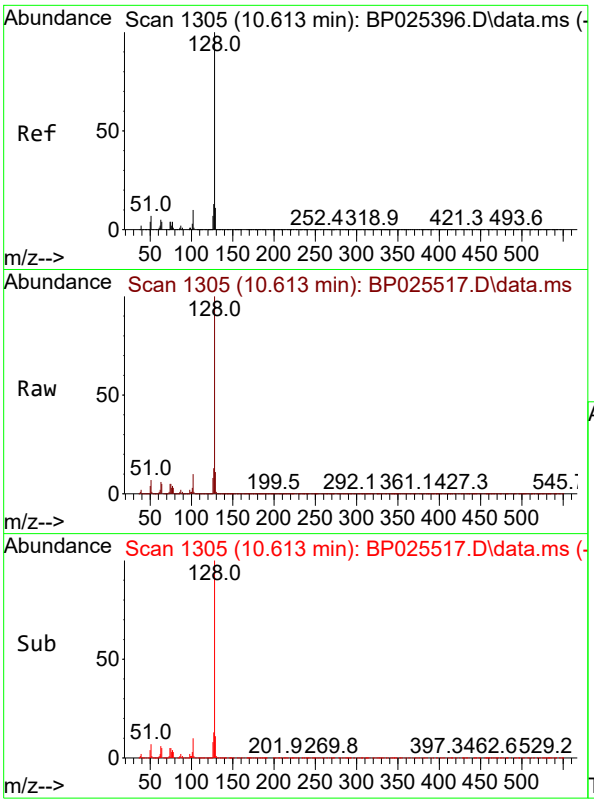


#30
1,2,4-Trichlorobenzene
Concen: 46.702 ng
RT: 10.419 min Scan# 1272
Delta R.T. -0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:180 Resp: 572771

Ion	Ratio	Lower	Upper
180	100		
182	94.2	78.0	117.0
145	31.6	25.9	38.9



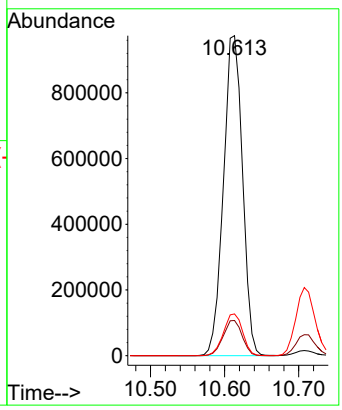


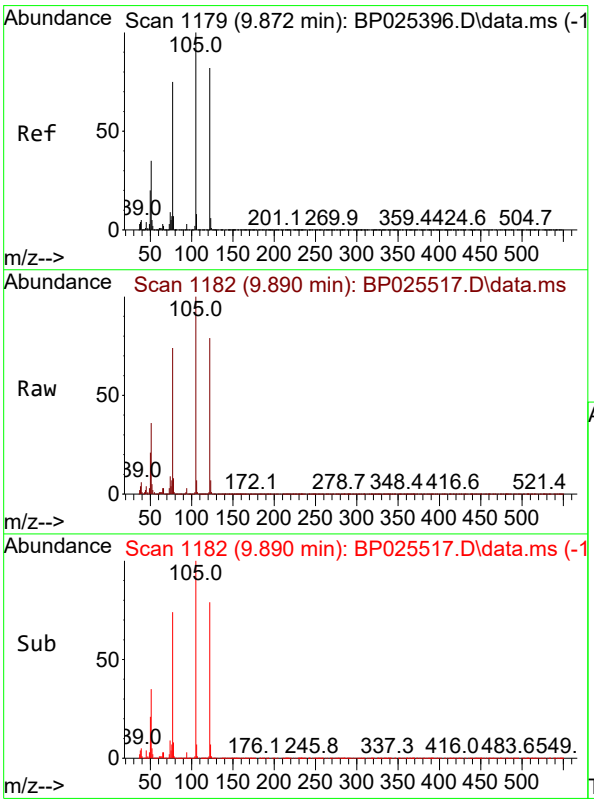
#31
Naphthalene
Concen: 46.334 ng
RT: 10.613 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Instrument :
BNA_P
ClientSampleId :
22BP-WMSD

Tgt Ion:128 Resp: 1739431

Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.6	13.0
127	13.0	10.7	16.1

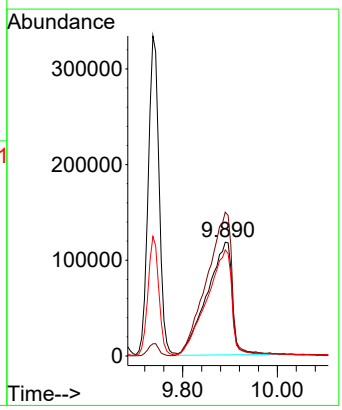


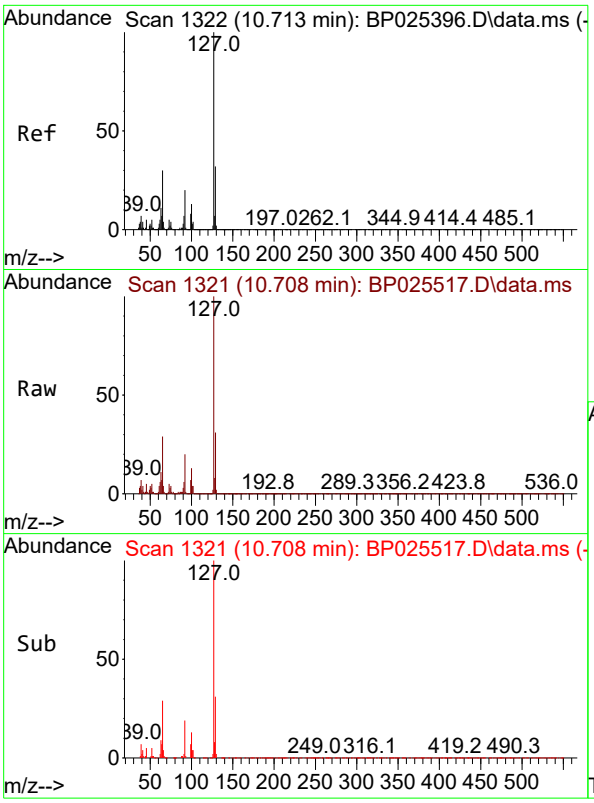


#32
Benzoic acid
Concen: 51.860 ng
RT: 9.890 min Scan# 1182
Delta R.T. 0.018 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:122 Resp: 431194

Ion	Ratio	Lower	Upper
122	100		
105	126.5	100.6	140.6
77	93.3	71.5	111.5



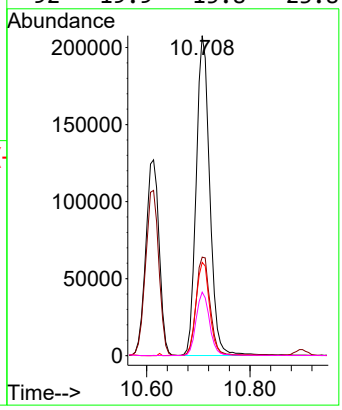


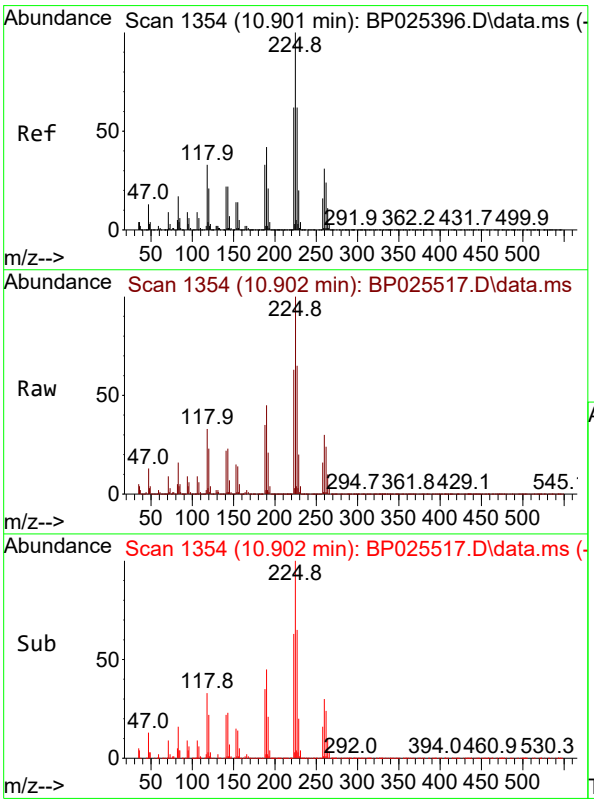
#33
4-Chloroaniline
Concen: 22.779 ng
RT: 10.708 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Instrument :
BNA_P
ClientSampleId :
22BP-WMSD

Tgt Ion:127 Resp: 377734

Ion	Ratio	Lower	Upper
127	100		
129	30.8	25.4	38.2
65	29.1	23.8	35.6
92	19.9	15.8	23.8

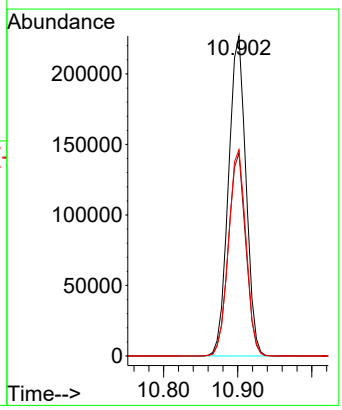


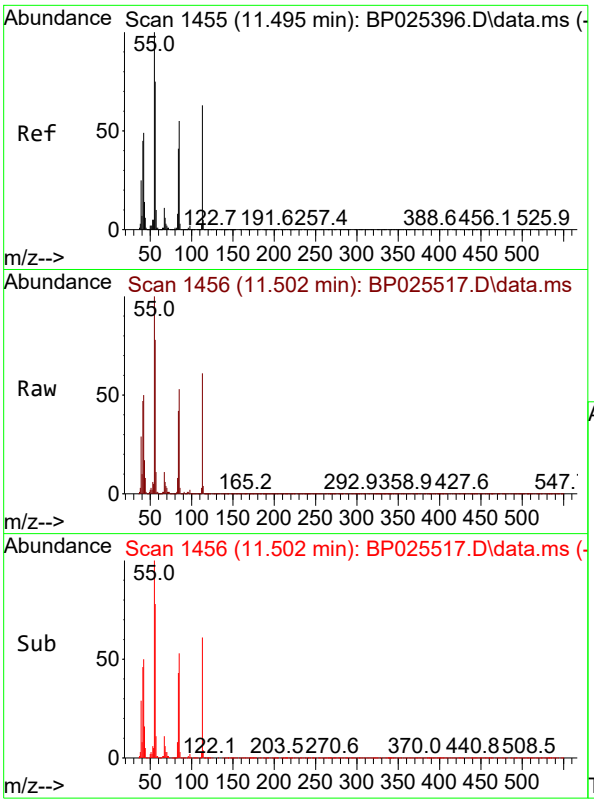


#34
Hexachlorobutadiene
Concen: 48.563 ng
RT: 10.902 min Scan# 1354
Delta R.T. 0.000 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:225 Resp: 370916

Ion	Ratio	Lower	Upper
225	100		
223	63.4	50.0	75.0
227	64.5	49.7	74.5



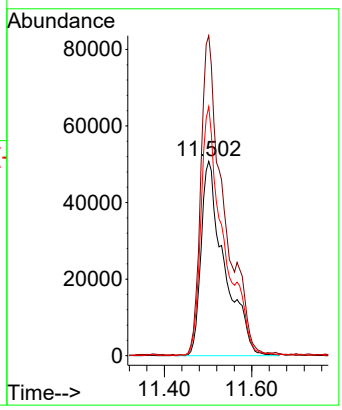


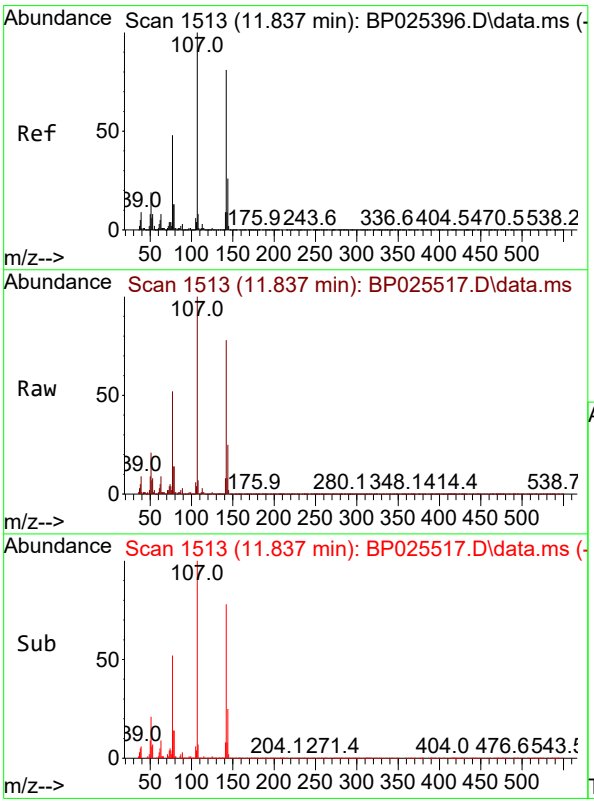
#35
Caprolactam
Concen: 45.747 ng
RT: 11.502 min Scan# 14
Delta R.T. 0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Instrument :
BNA_P
ClientSampleId :
22BP-WMSD

Tgt Ion:113 Resp: 187670

Ion	Ratio	Lower	Upper
113	100		
55	164.6	140.0	180.0
56	128.1	100.0	140.0

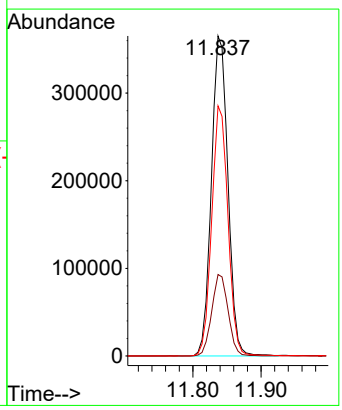


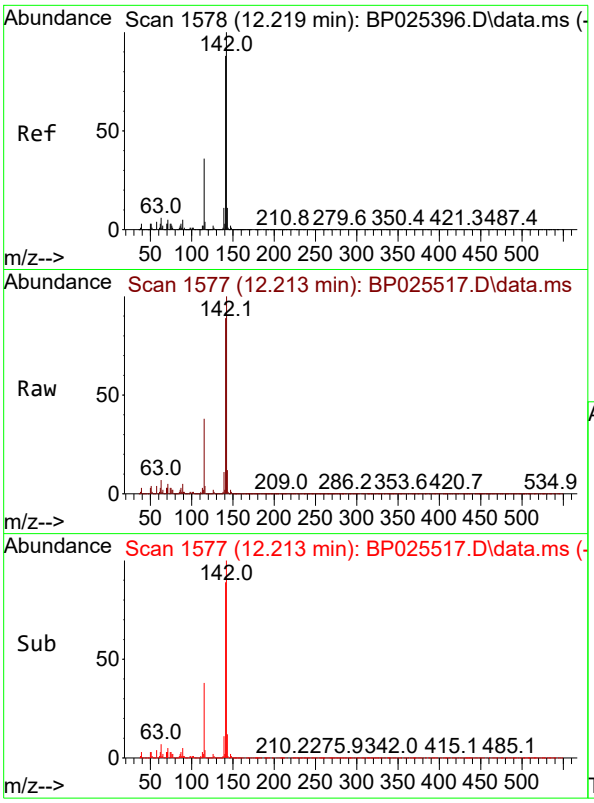


#36
4-Chloro-3-methylphenol
Concen: 47.974 ng
RT: 11.837 min Scan# 1513
Delta R.T. 0.000 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:107 Resp: 615878

Ion	Ratio	Lower	Upper
107	100		
144	25.5	21.0	31.4
142	78.1	64.6	97.0



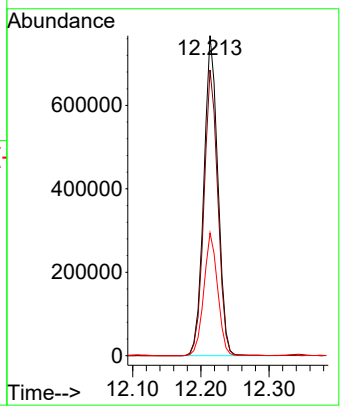


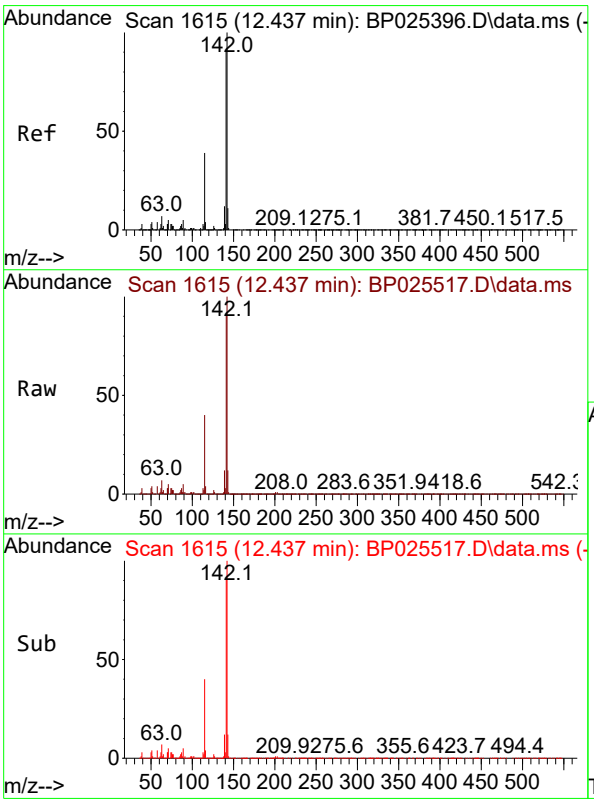
#37
2-Methylnaphthalene
Concen: 44.896 ng
RT: 12.213 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Instrument :
BNA_P
ClientSampleId :
22BP-WMSD

Tgt Ion:142 Resp: 1096821

Ion	Ratio	Lower	Upper
142	100		
141	89.3	70.3	105.5
115	38.4	28.9	43.3

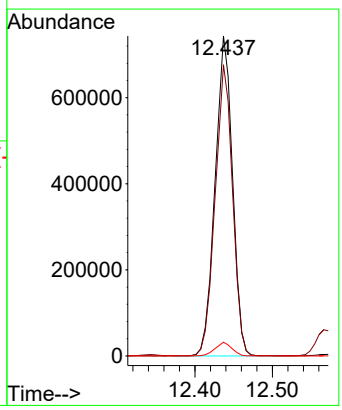


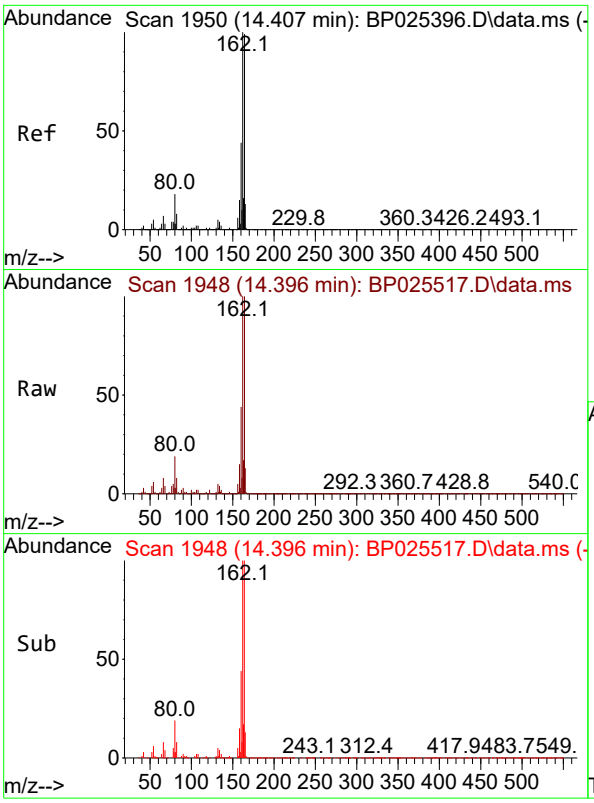


#38
1-Methylnaphthalene
Concen: 44.535 ng
RT: 12.437 min Scan# 1615
Delta R.T. 0.000 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:142 Resp: 1157054

Ion	Ratio	Lower	Upper
142	100		
141	91.0	73.1	109.7
116	4.3	3.2	4.8



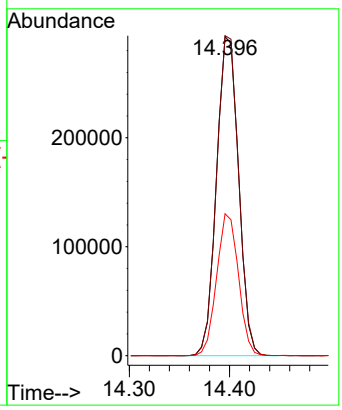


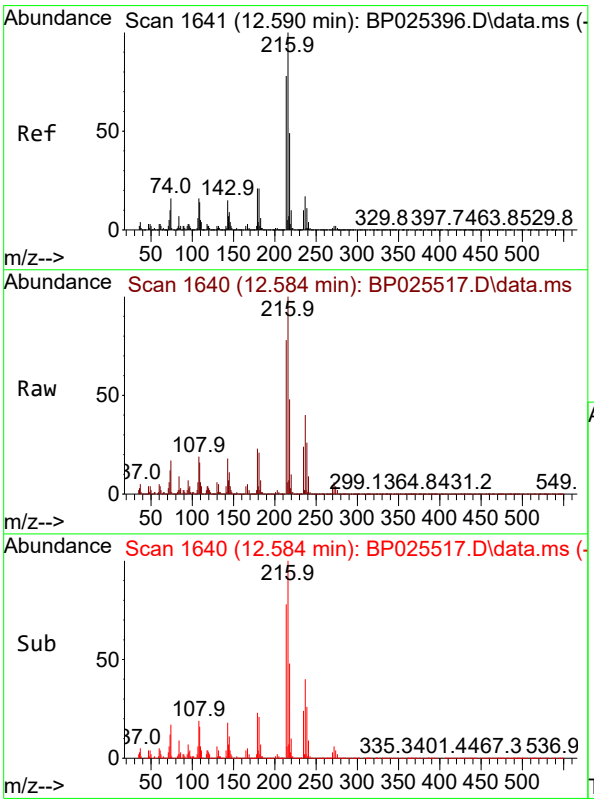
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.396 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Instrument :
BNA_P
ClientSampleId :
22BP-WMSD

Tgt Ion:164 Resp: 447048

Ion	Ratio	Lower	Upper
164	100		
162	100.3	81.0	121.6
160	44.5	35.4	53.2

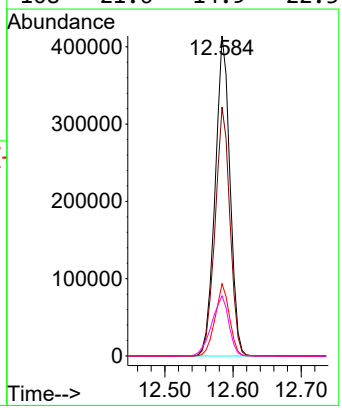


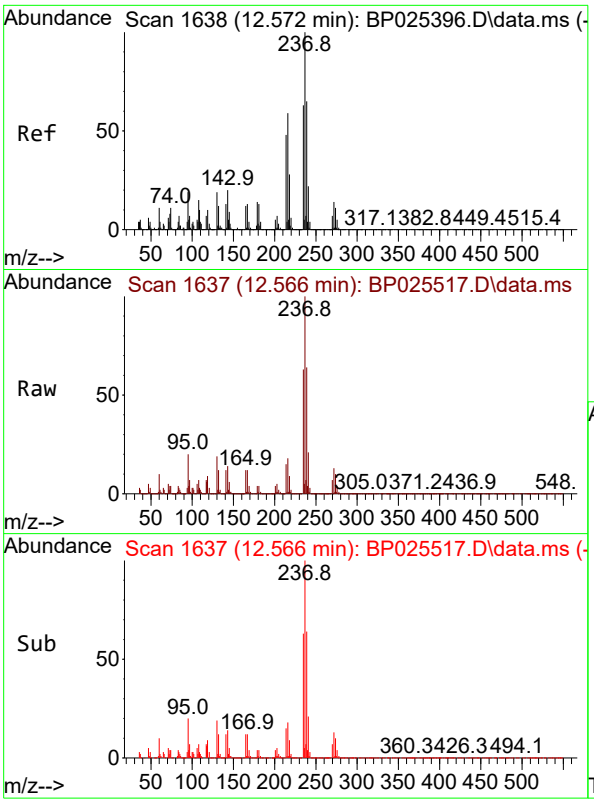


#40
1,2,4,5-Tetrachlorobenzene
Concen: 48.461 ng
RT: 12.584 min Scan# 1640
Delta R.T. -0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:216 Resp: 625693

Ion	Ratio	Lower	Upper
216	100		
214	78.1	63.0	94.4
179	21.9	17.1	25.7
108	21.6	14.9	22.3



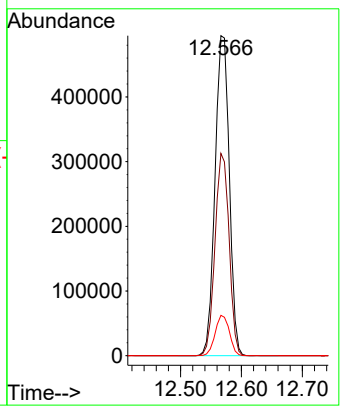


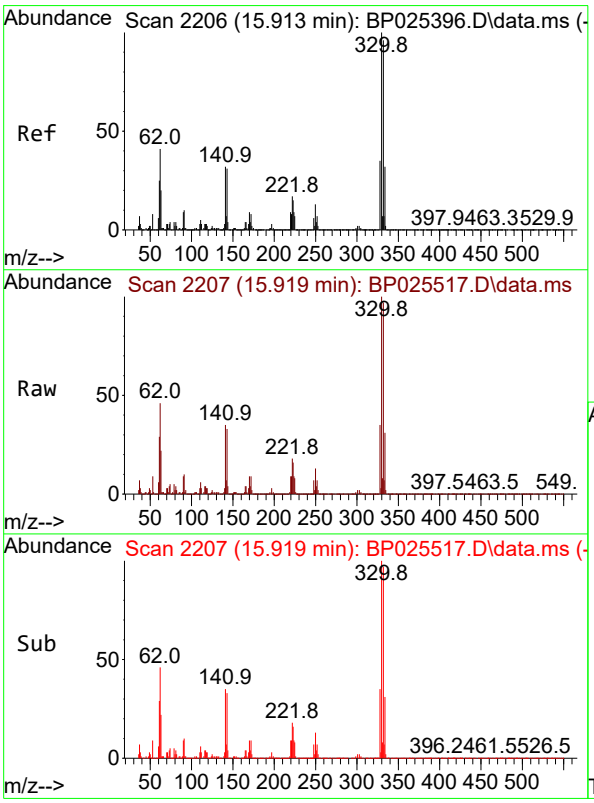
#41
Hexachlorocyclopentadiene
Concen: 102.943 ng
RT: 12.566 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Instrument :
BNA_P
ClientSampleId :
22BP-WMSD

Tgt Ion:237 Resp: 802842

Ion	Ratio	Lower	Upper
237	100		
235	63.2	42.7	82.7
272	12.6	0.0	34.0

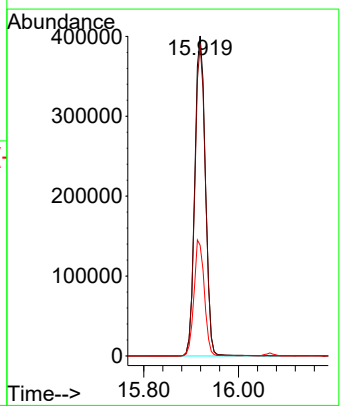


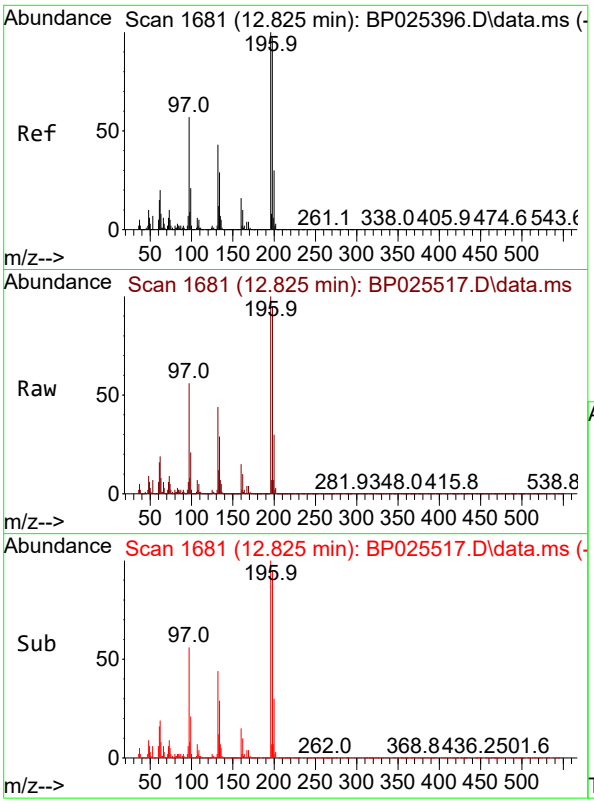


#42
2,4,6-Tribromophenol
Concen: 103.597 ng
RT: 15.919 min Scan# 2207
Delta R.T. 0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:330 Resp: 623372

Ion	Ratio	Lower	Upper
330	100		
332	96.5	77.3	115.9
141	35.3	26.6	39.8



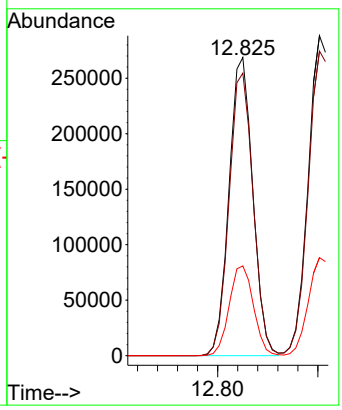


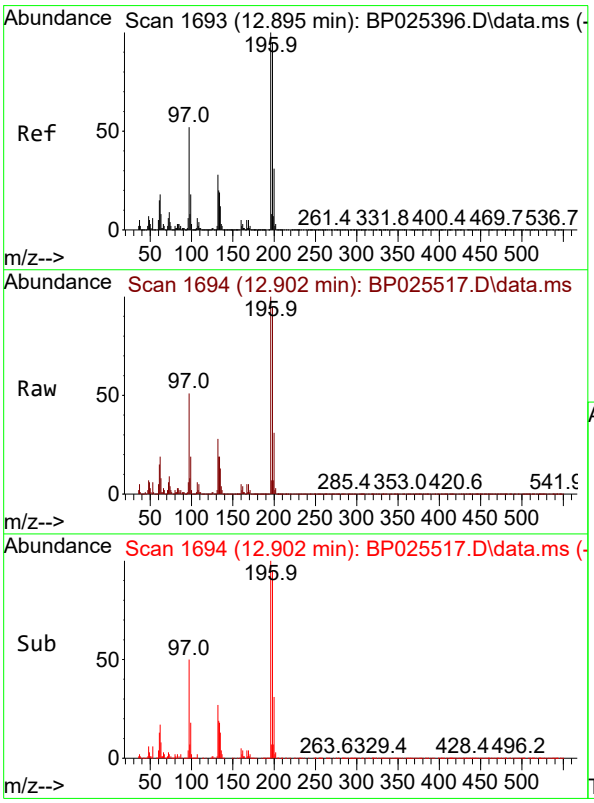
#43
2,4,6-Trichlorophenol
Concen: 50.780 ng
RT: 12.825 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Instrument :
BNA_P
ClientSampleId :
22BP-WMSD

Tgt Ion:196 Resp: 442620

Ion	Ratio	Lower	Upper
196	100		
198	94.8	77.2	115.8
200	30.1	23.9	35.9

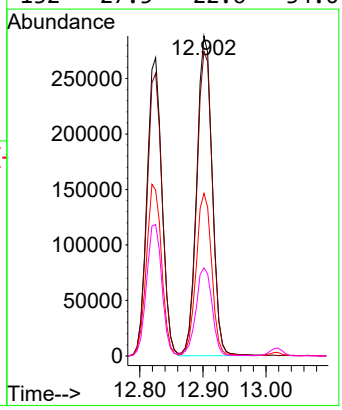


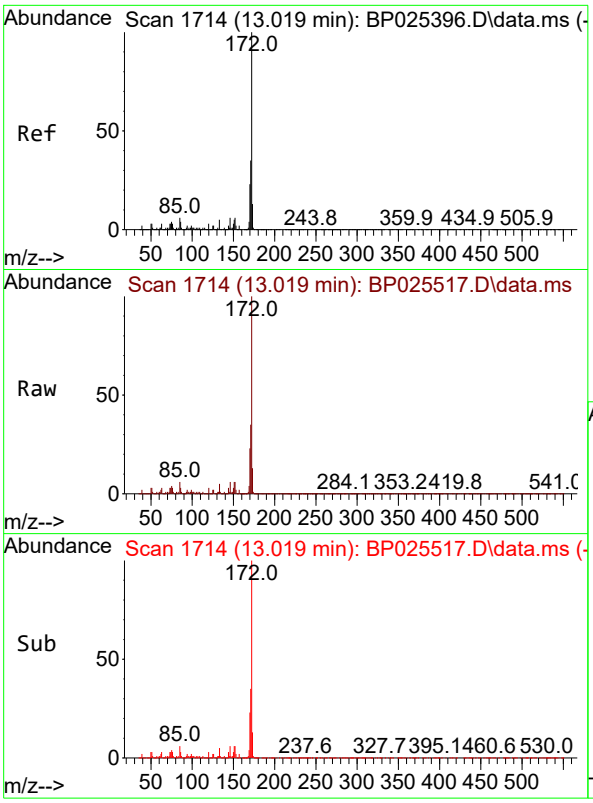


#44
2,4,5-Trichlorophenol
Concen: 51.330 ng
RT: 12.902 min Scan# 1694
Delta R.T. 0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:196 Resp: 490354

Ion	Ratio	Lower	Upper
196	100		
198	95.2	76.2	114.2
97	50.8	41.2	61.8
132	27.5	22.6	34.0



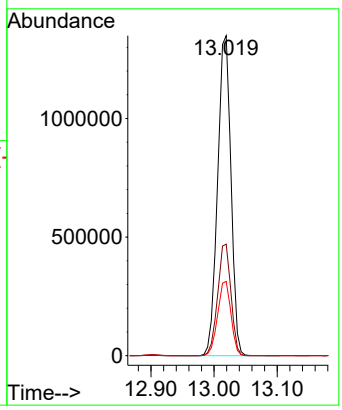


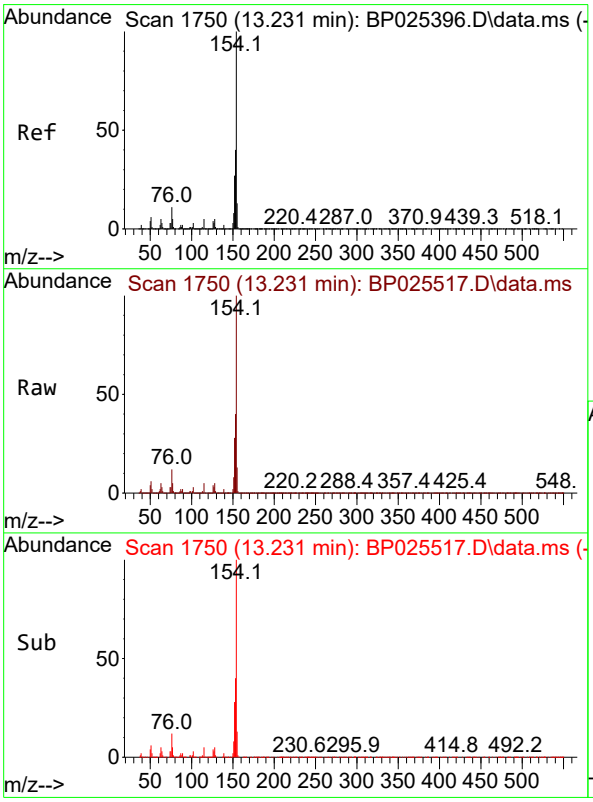
#45
2-Fluorobiphenyl
Concen: 60.642 ng
RT: 13.019 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Instrument :
BNA_P
ClientSampleId :
22BP-WMSD

Tgt Ion:172 Resp: 1983638

Ion	Ratio	Lower	Upper
172	100		
171	34.9	28.1	42.1
170	23.2	18.6	28.0

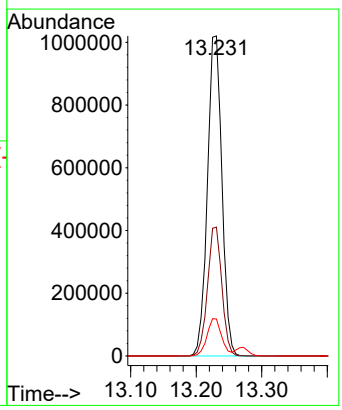


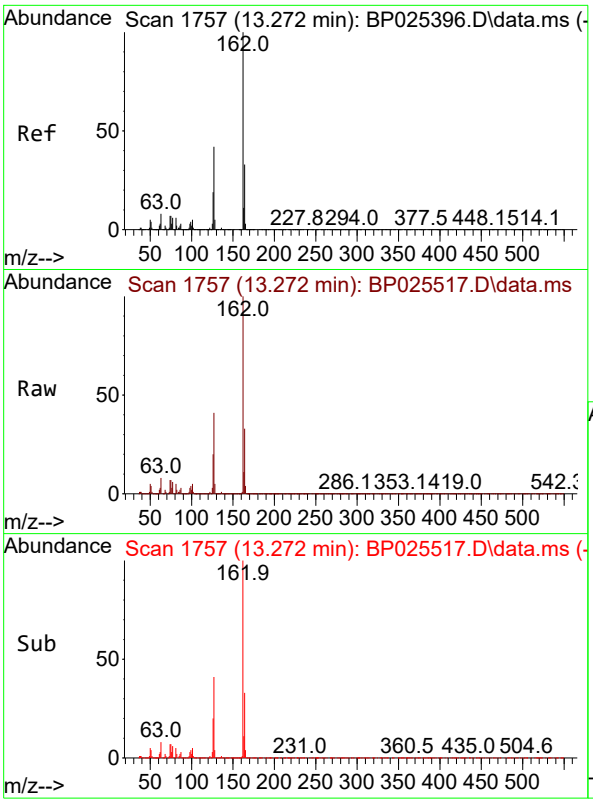


#46
1,1'-Biphenyl
Concen: 48.304 ng
RT: 13.231 min Scan# 1750
Delta R.T. 0.000 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:154 Resp: 1568313

Ion	Ratio	Lower	Upper
154	100		
153	40.3	19.5	59.5
76	11.6	0.0	31.1



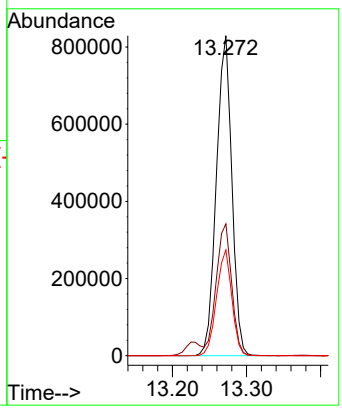


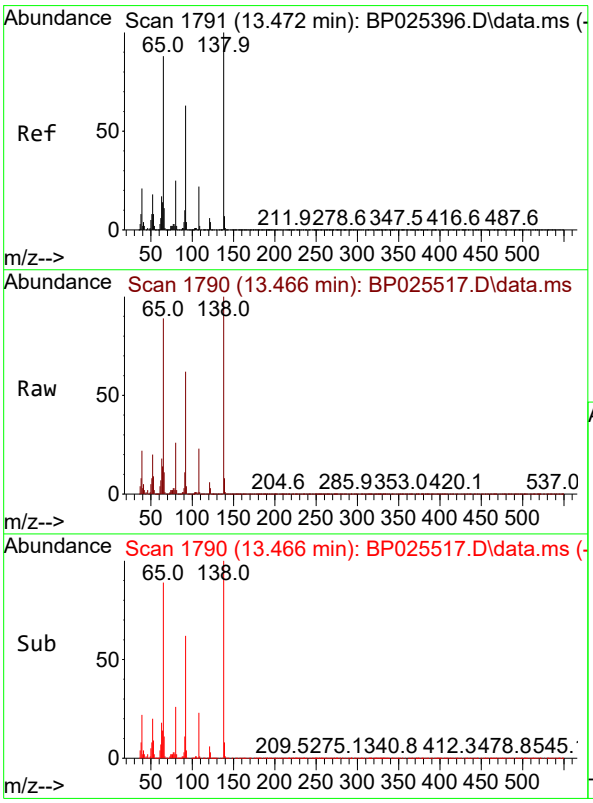
#47
2-Chloronaphthalene
Concen: 47.550 ng
RT: 13.272 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Instrument :
BNA_P
ClientSampleId :
22BP-WMSD

Tgt Ion:162 Resp: 1201838

Ion	Ratio	Lower	Upper
162	100		
127	41.2	33.4	50.2
164	33.0	26.2	39.2

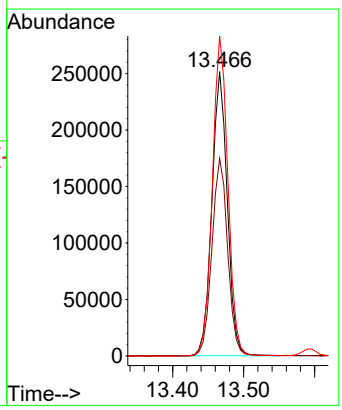


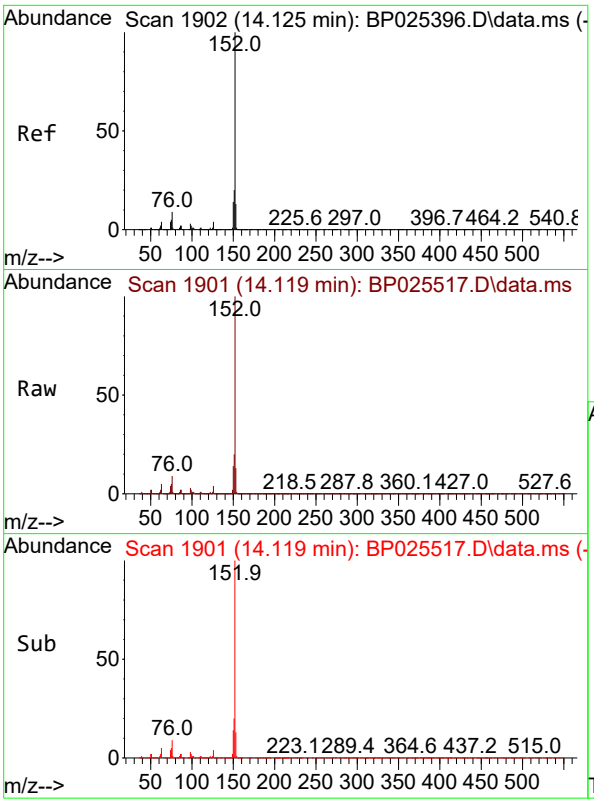


#48
2-Nitroaniline
Concen: 51.670 ng
RT: 13.466 min Scan# 1790
Delta R.T. -0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion: 65 Resp: 380529

Ion	Ratio	Lower	Upper
65	100		
92	69.4	57.6	86.4
138	112.5	91.0	136.6



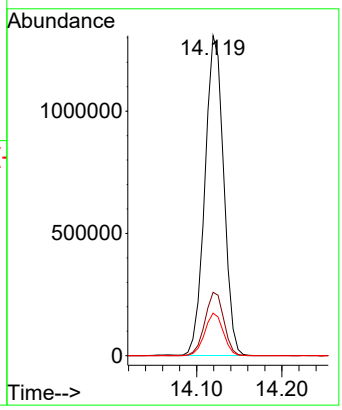


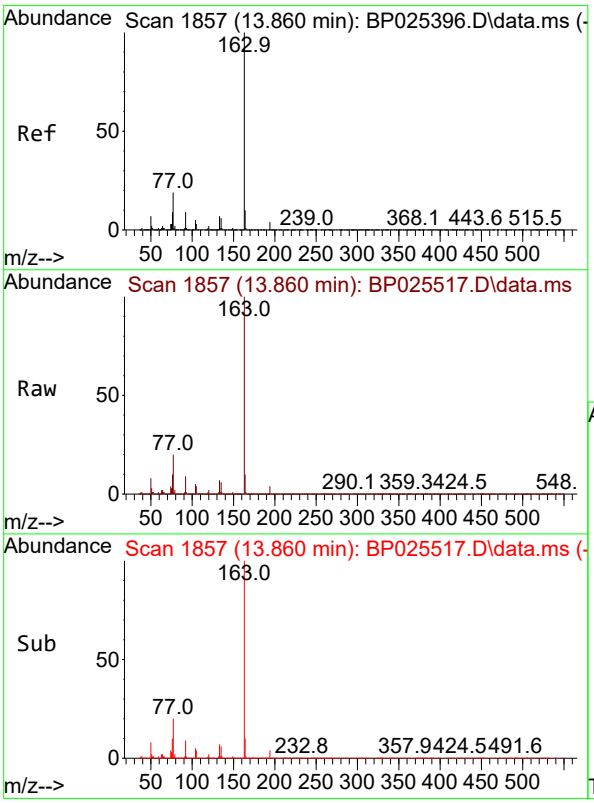
#49
Acenaphthylene
Concen: 47.841 ng
RT: 14.119 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Instrument :
BNA_P
ClientSampleId :
22BP-WMSD

Tgt Ion:152 Resp: 2000907

Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.0	24.0
153	13.3	10.6	15.8

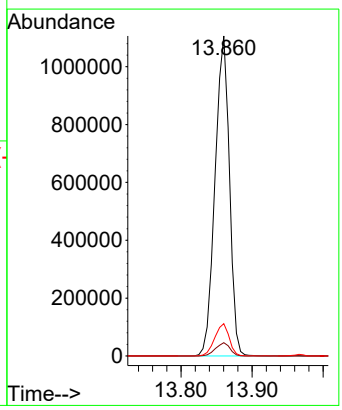


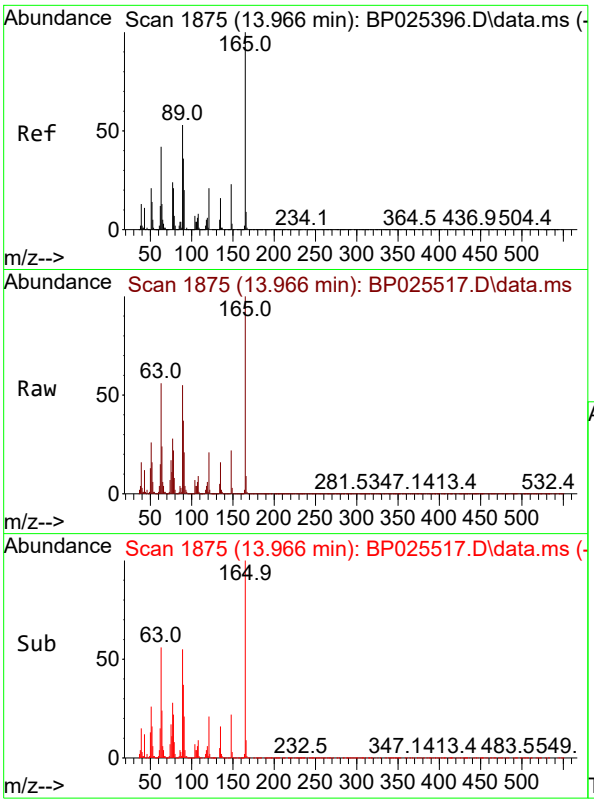


#50
Dimethylphthalate
Concen: 47.312 ng
RT: 13.860 min Scan# 1857
Delta R.T. 0.000 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:163 Resp: 1548844

Ion	Ratio	Lower	Upper
163	100		
194	4.1	3.4	5.0
164	10.1	7.9	11.9



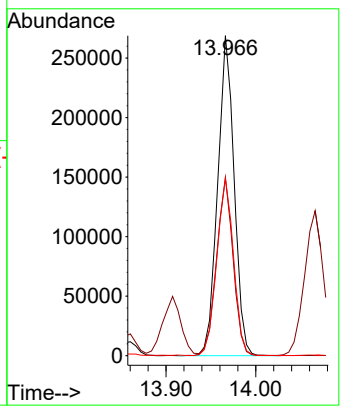


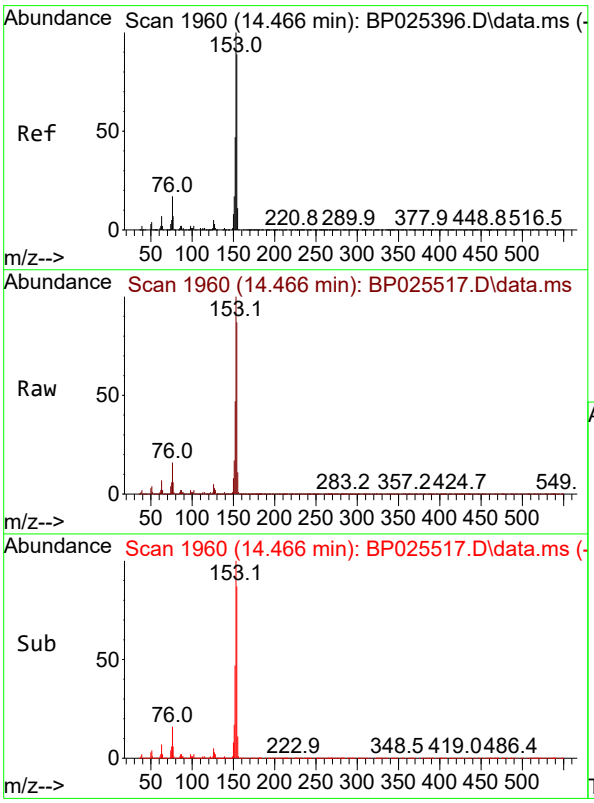
#51
2,6-Dinitrotoluene
Concen: 49.643 ng
RT: 13.966 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Instrument :
BNA_P
ClientSampleId :
22BP-WMSD

Tgt Ion:165 Resp: 342534

Ion	Ratio	Lower	Upper
165	100		
63	55.7	40.9	61.3
89	55.5	42.1	63.1

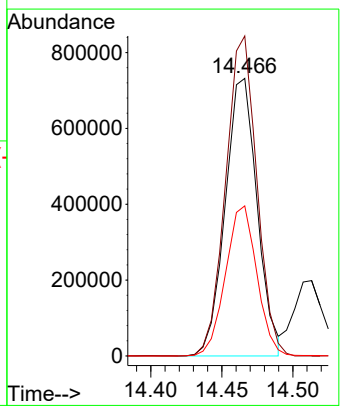


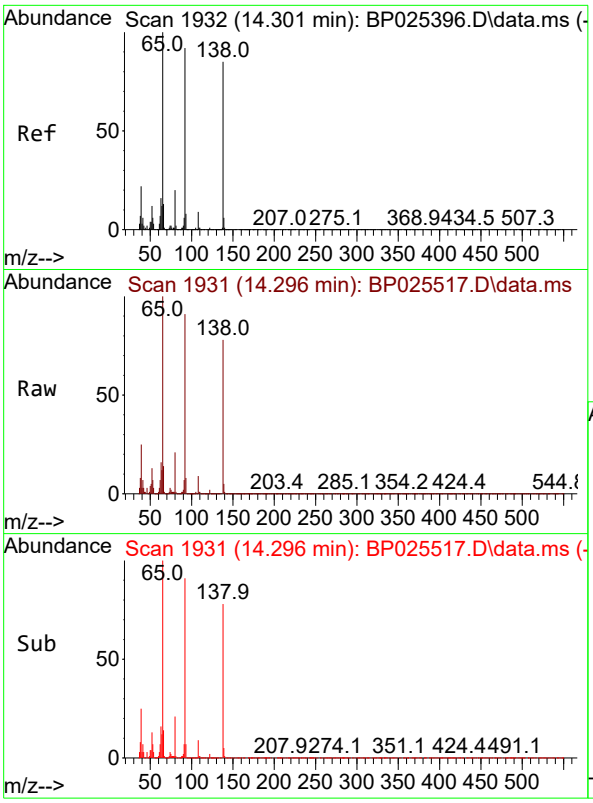


#52
Acenaphthene
Concen: 46.659 ng
RT: 14.466 min Scan# 1960
Delta R.T. 0.000 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:154 Resp: 1145454

Ion	Ratio	Lower	Upper
154	100		
153	115.2	90.2	135.2
152	54.0	42.1	63.1



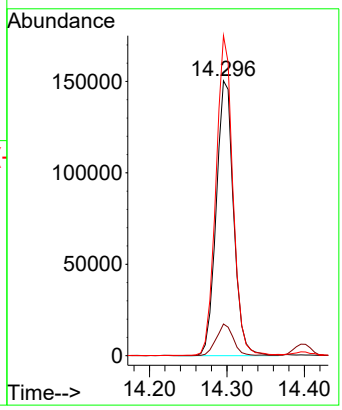


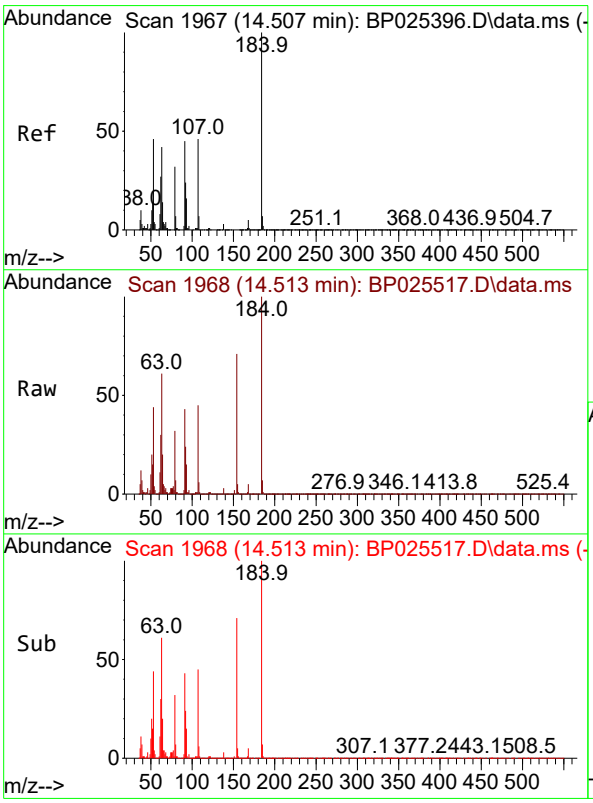
#53
3-Nitroaniline
Concen: 30.228 ng
RT: 14.296 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Instrument :
BNA_P
ClientSampleId :
22BP-WMSD

Tgt Ion:138 Resp: 234663

Ion	Ratio	Lower	Upper
138	100		
108	11.5	8.3	12.5
92	116.4	86.2	129.2

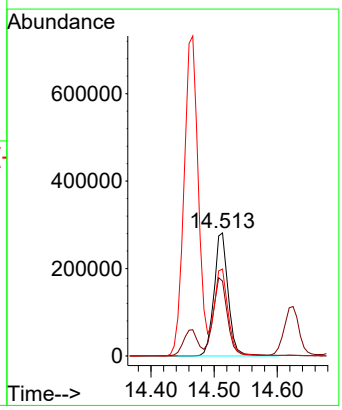


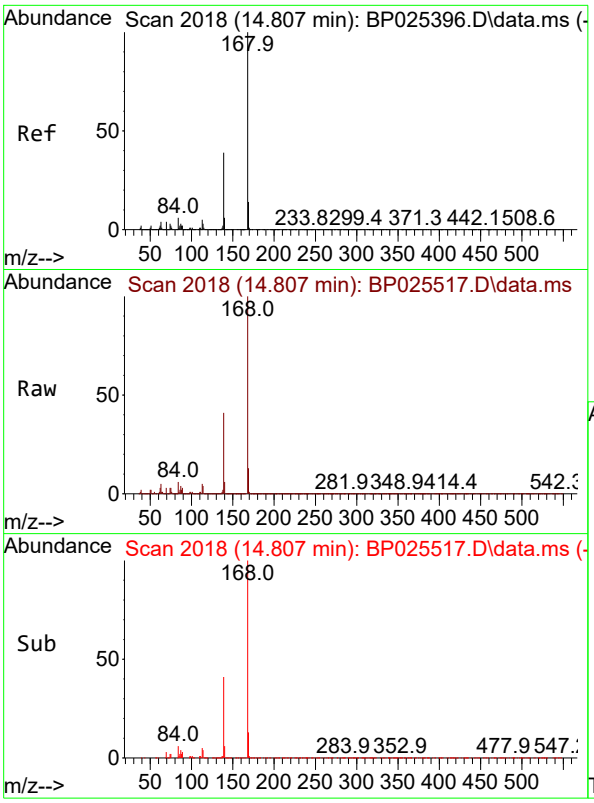


#54
2,4-Dinitrophenol
Concen: 118.504 ng
RT: 14.513 min Scan# 1968
Delta R.T. 0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:184 Resp: 436661

Ion	Ratio	Lower	Upper
184	100		
63	60.9	49.4	74.2
154	70.6	54.6	82.0



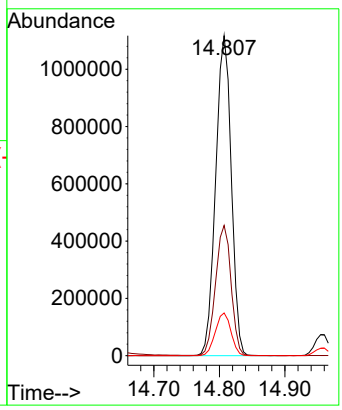


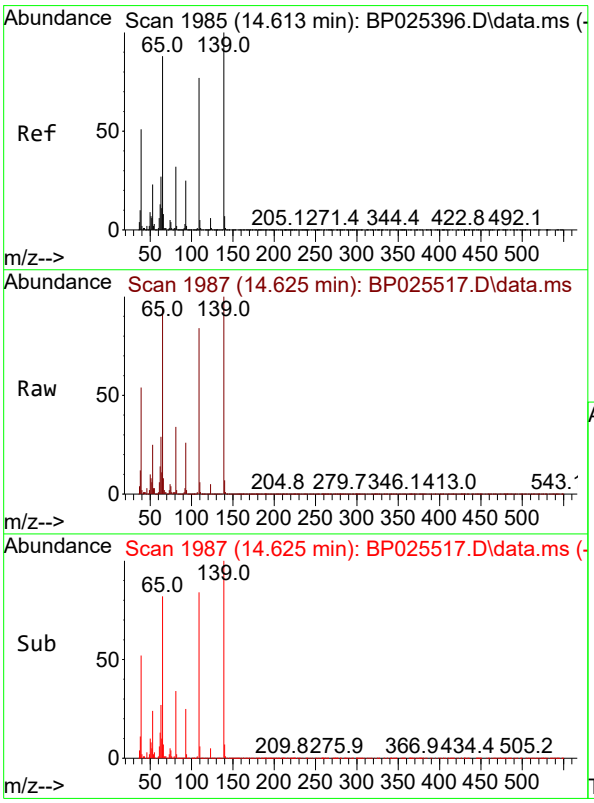
#55
Dibenzofuran
Concen: 47.393 ng
RT: 14.807 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Instrument :
BNA_P
ClientSampleId :
22BP-WMSD

Tgt Ion:168 Resp: 1839493

Ion	Ratio	Lower	Upper
168	100		
139	40.7	31.5	47.3
169	13.3	10.9	16.3

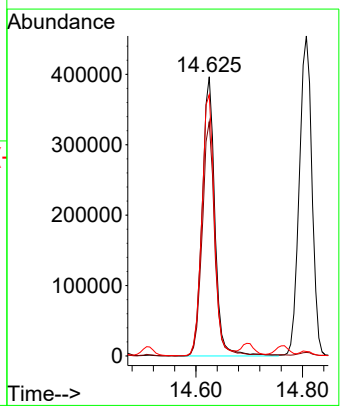


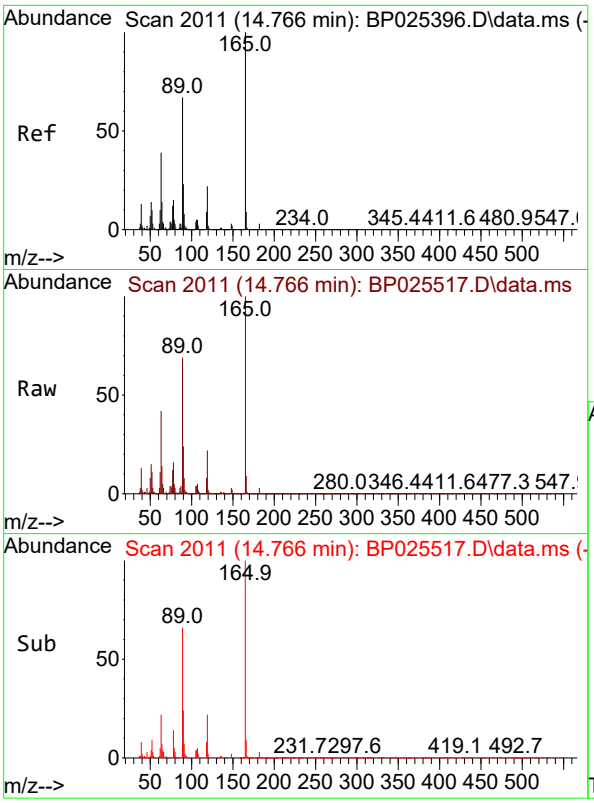


#56
4-Nitrophenol
Concen: 102.419 ng
RT: 14.625 min Scan# 1987
Delta R.T. 0.012 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:139 Resp: 653354

Ion	Ratio	Lower	Upper
139	100		
109	83.9	56.6	96.6
65	93.6	68.2	108.2



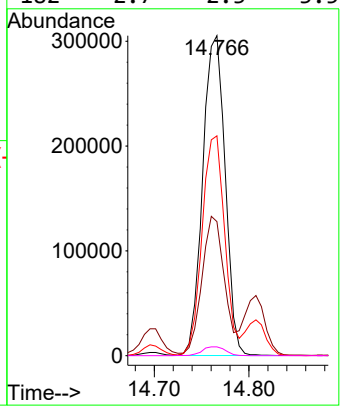


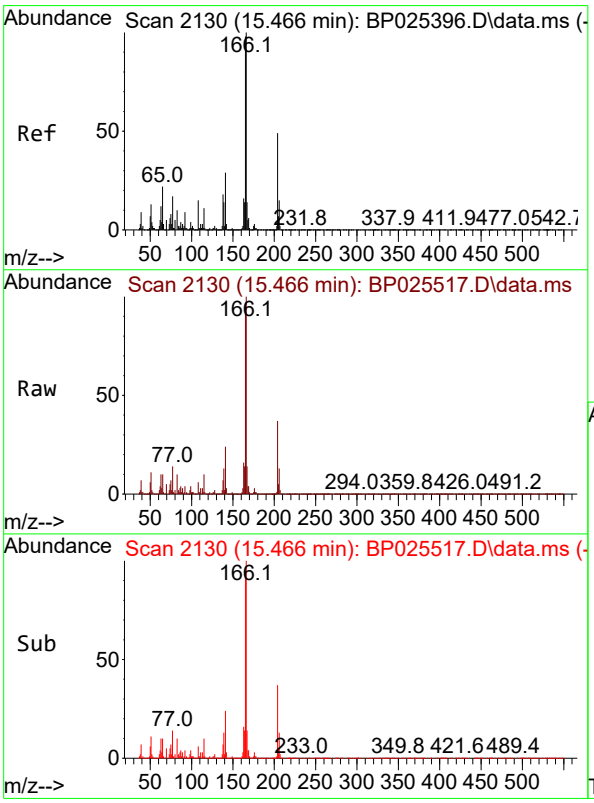
#57
2,4-Dinitrotoluene
Concen: 51.002 ng
RT: 14.766 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Instrument :
BNA_P
ClientSampleId :
22BP-WMSD

Tgt Ion:165 Resp: 502093

Ion	Ratio	Lower	Upper
165	100		
63	41.9	31.4	47.2
89	68.7	53.3	79.9
182	2.7	2.3	3.5

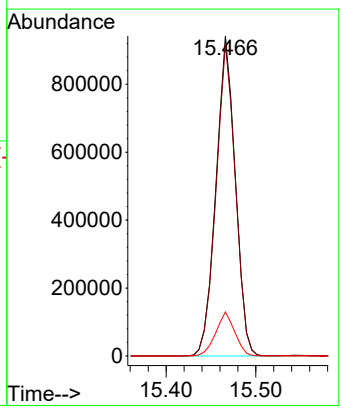


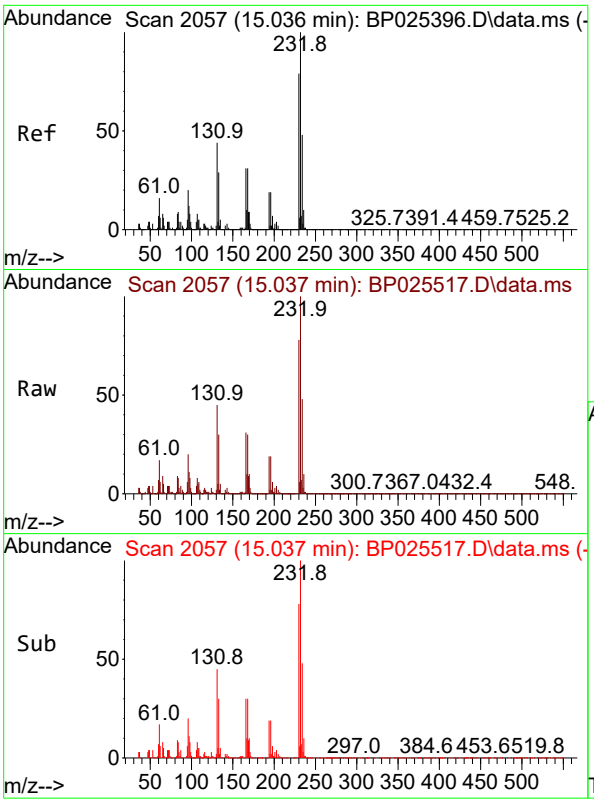


#58
Fluorene
Concen: 46.148 ng
RT: 15.466 min Scan# 2130
Delta R.T. 0.000 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:166 Resp: 1413344

Ion	Ratio	Lower	Upper
166	100		
165	97.4	78.8	118.2
167	13.7	11.0	16.4



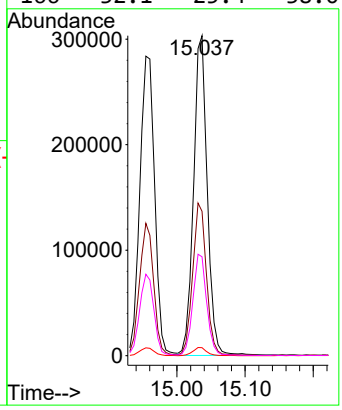


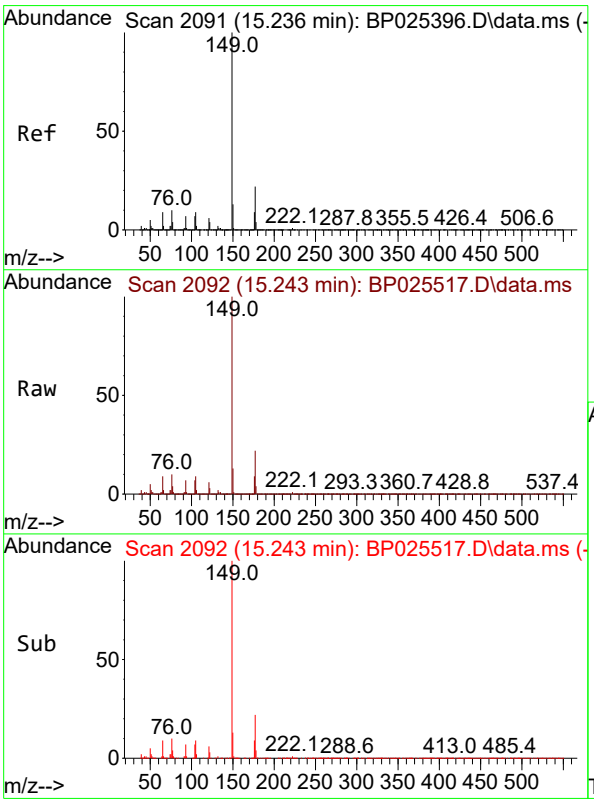
#59
2,3,4,6-Tetrachlorophenol
Concen: 50.097 ng
RT: 15.037 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Instrument :
BNA_P
ClientSampleId :
22BP-WMSD

Tgt Ion:232 Resp: 422581

Ion	Ratio	Lower	Upper
232	100		
131	47.8	37.0	55.6
130	2.6	1.9	2.9
166	32.1	25.4	38.0

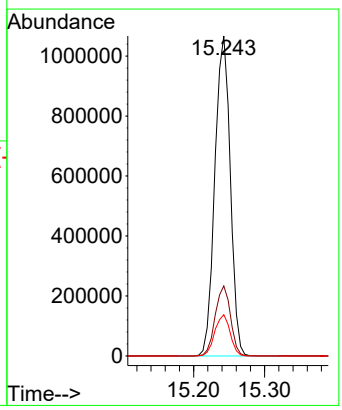


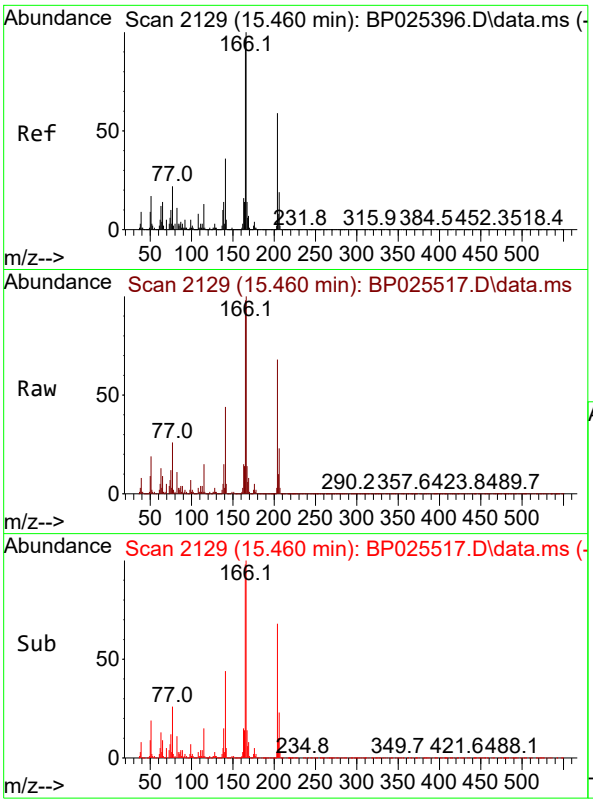


#60
Diethylphthalate
Concen: 48.175 ng
RT: 15.243 min Scan# 2092
Delta R.T. 0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:149 Resp: 1602496

Ion	Ratio	Lower	Upper
149	100		
177	21.9	17.3	25.9
150	12.9	10.3	15.5



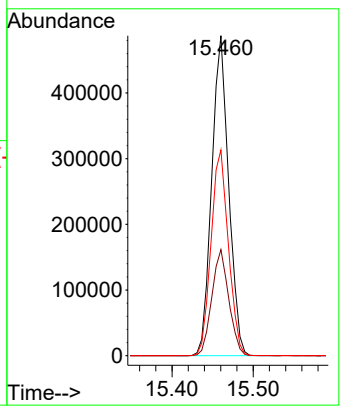


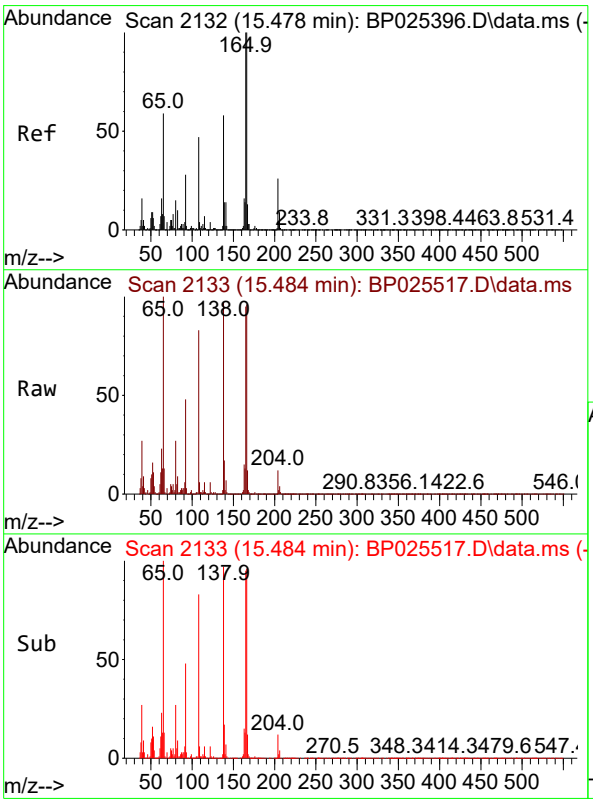
#61
4-Chlorophenyl-phenylether
Concen: 46.278 ng
RT: 15.460 min Scan# 21
Delta R.T. 0.000 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Instrument :
BNA_P
ClientSampleId :
22BP-WMSD

Tgt Ion:204 Resp: 704890

Ion	Ratio	Lower	Upper
204	100		
206	33.2	25.8	38.8
141	64.3	49.4	74.2

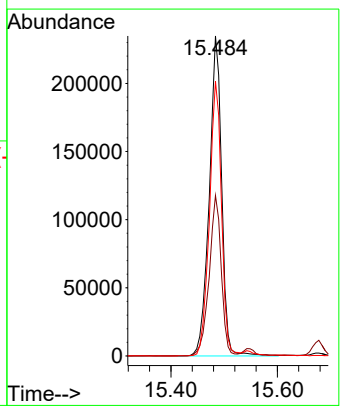


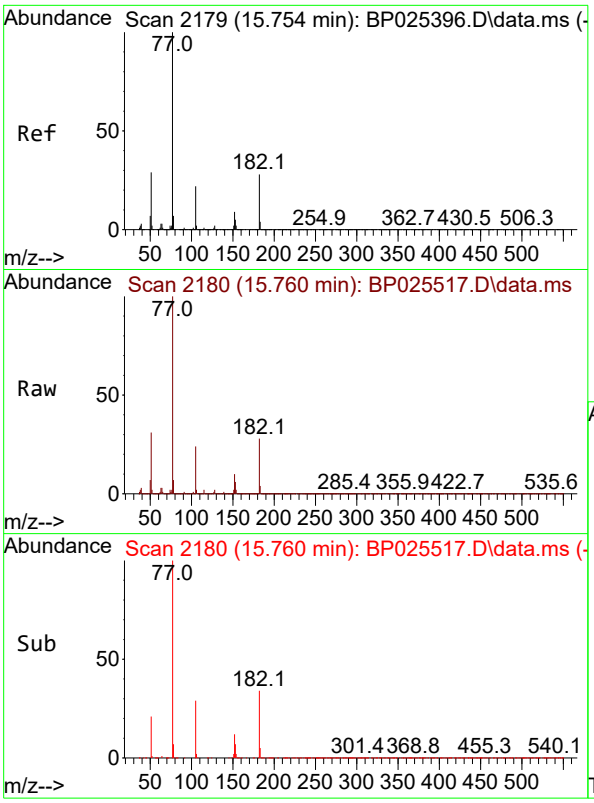


#62
4-Nitroaniline
Concen: 47.851 ng
RT: 15.484 min Scan# 2133
Delta R.T. 0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:138 Resp: 380825

Ion	Ratio	Lower	Upper
138	100		
92	50.2	29.1	69.1
108	85.8	61.5	101.5



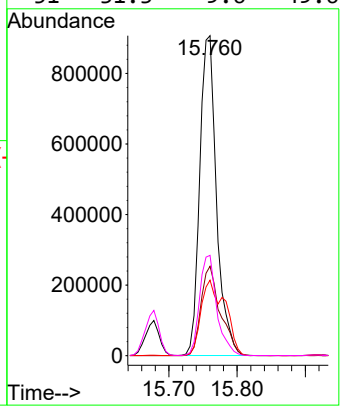


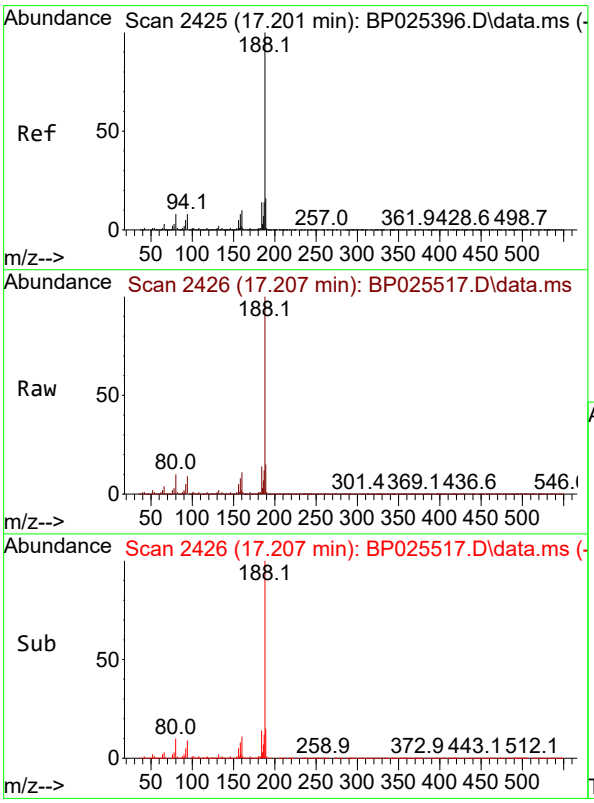
#63
Azobenzene
Concen: 54.544 ng
RT: 15.760 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Instrument :
BNA_P
ClientSampleId :
22BP-WMSD

Tgt Ion: 77 Resp: 1553558

Ion	Ratio	Lower	Upper
77	100		
182	27.9	7.5	47.5
105	23.6	2.1	42.1
51	31.3	9.6	49.6

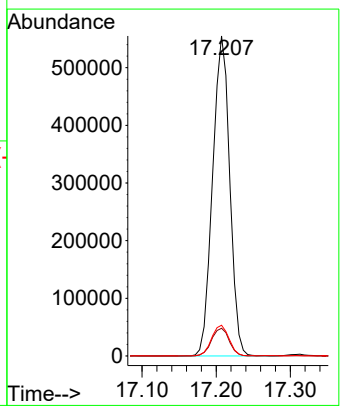


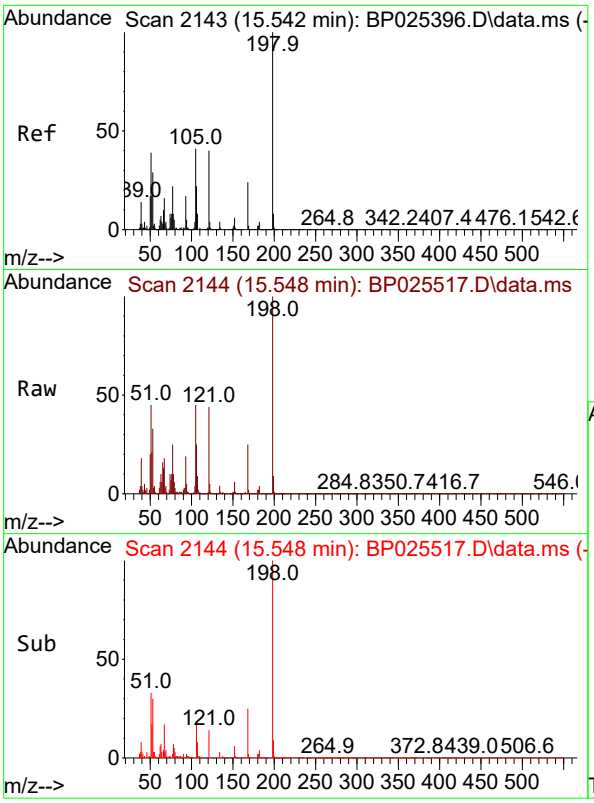


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.207 min Scan# 2426
Delta R.T. 0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:188 Resp: 890323

Ion	Ratio	Lower	Upper
188	100		
94	8.6	6.6	10.0
80	9.6	6.7	10.1



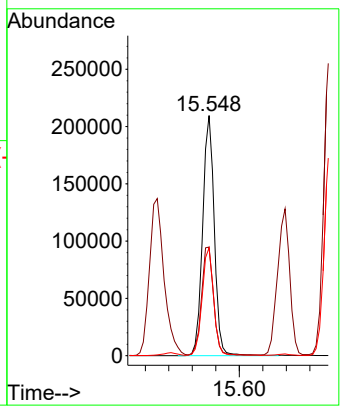


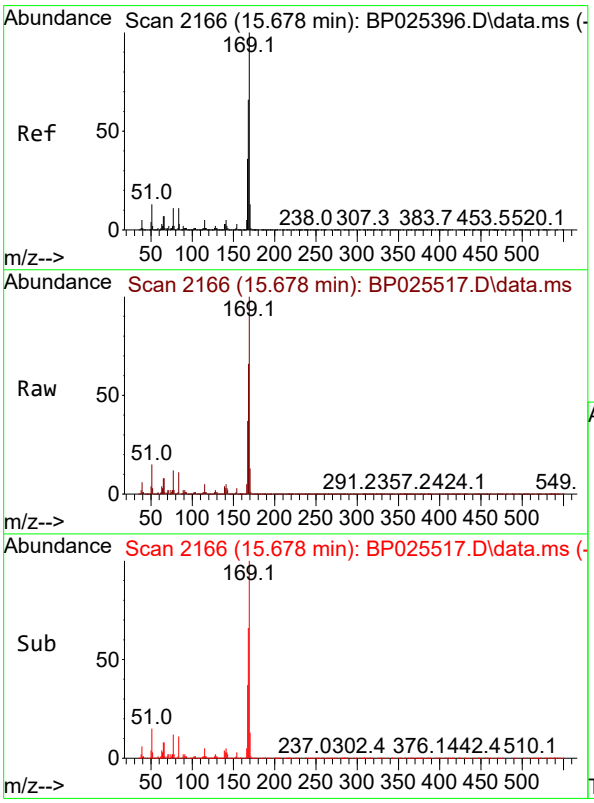
#65
4,6-Dinitro-2-methylphenol
Concen: 51.785 ng
RT: 15.548 min Scan# 21
Delta R.T. 0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Instrument :
BNA_P
ClientSampleId :
22BP-WMSD

Tgt Ion:198 Resp: 287397

Ion	Ratio	Lower	Upper
198	100		
51	45.3	19.6	59.6
105	44.9	20.9	60.9

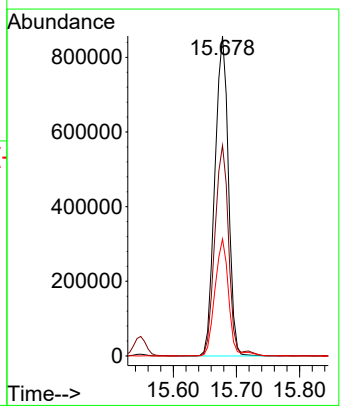


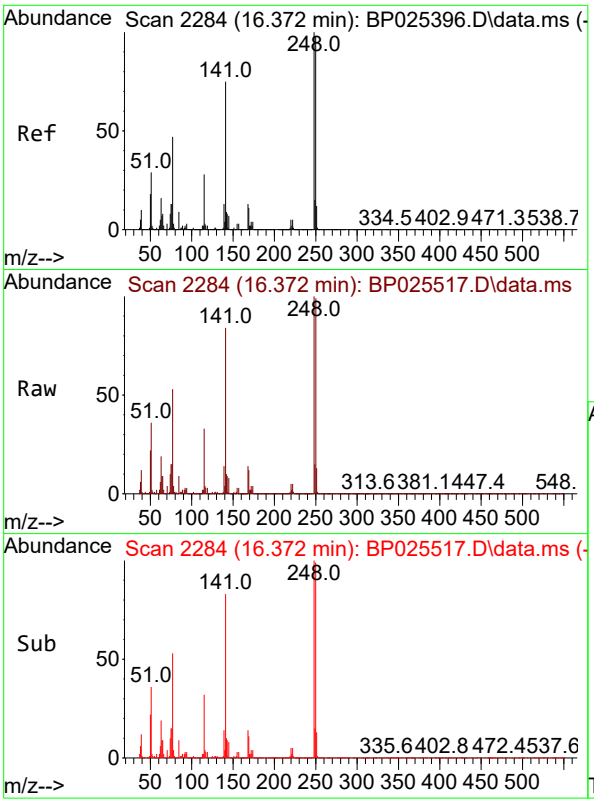


#66
n-Nitrosodiphenylamine
Concen: 46.939 ng
RT: 15.678 min Scan# 2166
Delta R.T. 0.000 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:169 Resp: 1274387

Ion	Ratio	Lower	Upper
169	100		
168	65.8	53.2	79.8
167	36.6	28.7	43.1



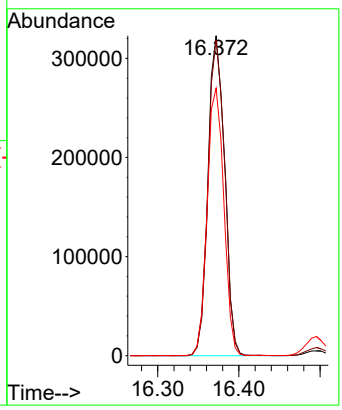


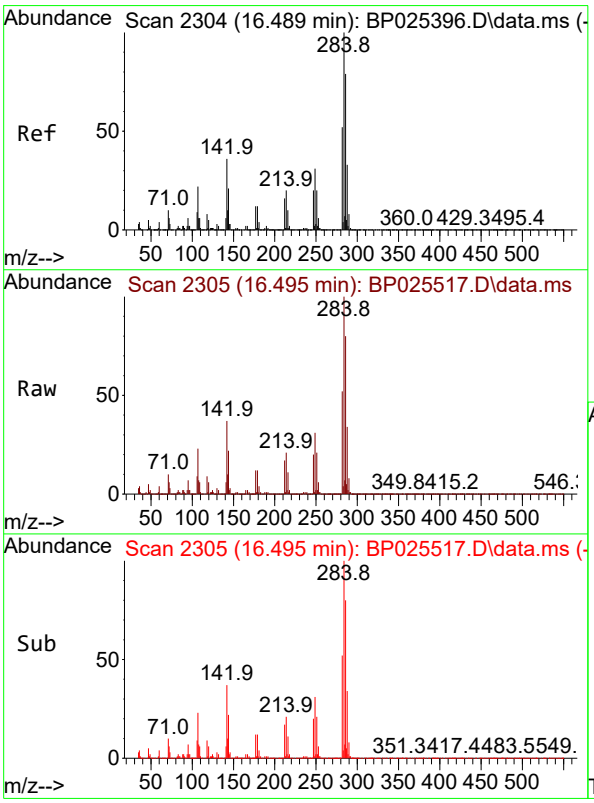
#67
4-Bromophenyl-phenylether
Concen: 47.077 ng
RT: 16.372 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Instrument :
BNA_P
ClientSampleId :
22BP-WMSD

Tgt Ion:248 Resp: 460977

Ion	Ratio	Lower	Upper
248	100		
250	98.8	78.2	117.2
141	83.6	59.6	89.4

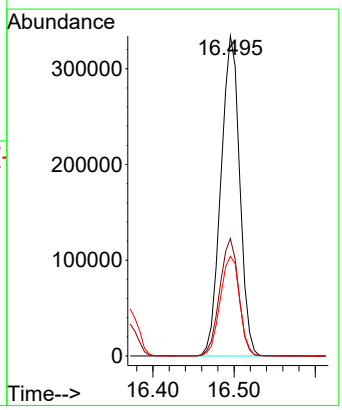


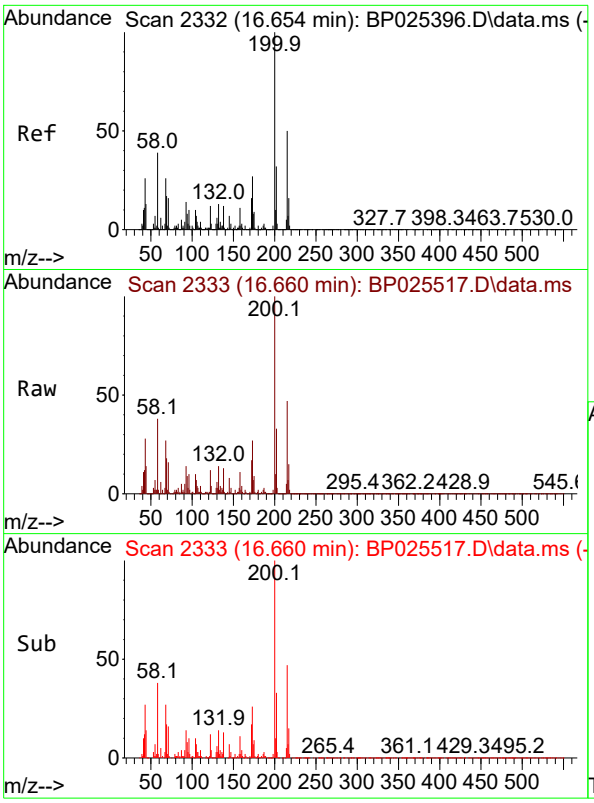


#68
Hexachlorobenzene
Concen: 47.319 ng
RT: 16.495 min Scan# 2305
Delta R.T. 0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:284 Resp: 537114

Ion	Ratio	Lower	Upper
284	100		
142	36.7	29.1	43.7
249	31.2	25.0	37.4



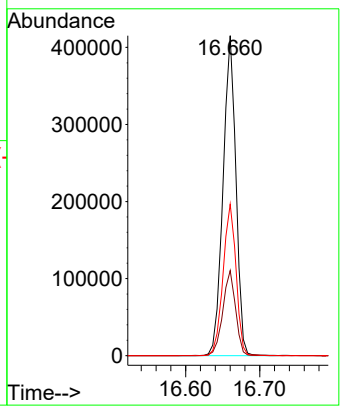


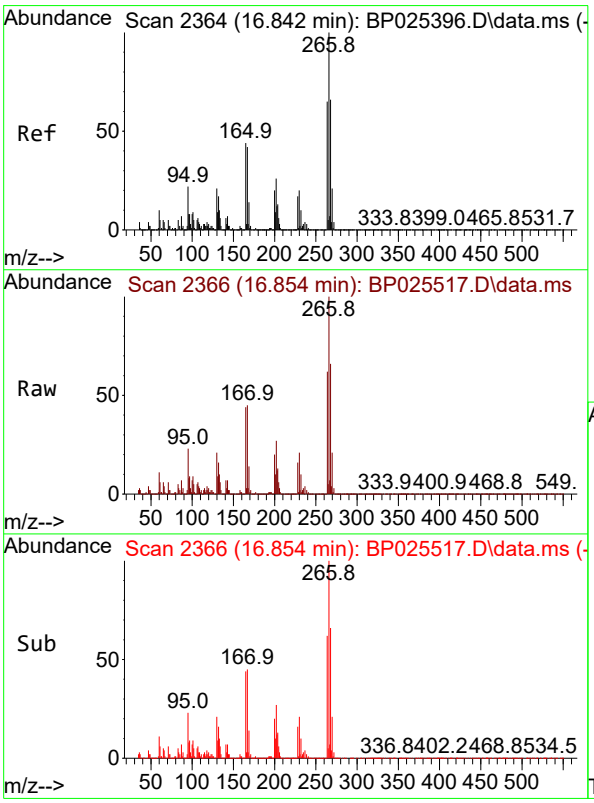
#69
Atrazine
Concen: 49.377 ng
RT: 16.660 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Instrument :
BNA_P
ClientSampleId :
22BP-WMSD

Tgt Ion:200 Resp: 502043

Ion	Ratio	Lower	Upper
200	100		
173	26.6	6.7	46.7
215	47.4	29.7	69.7

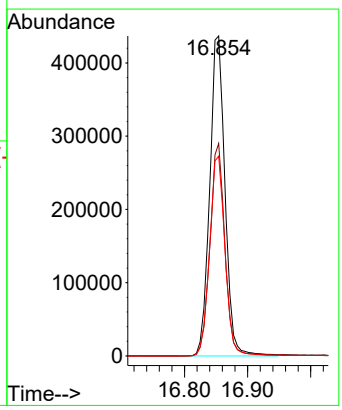


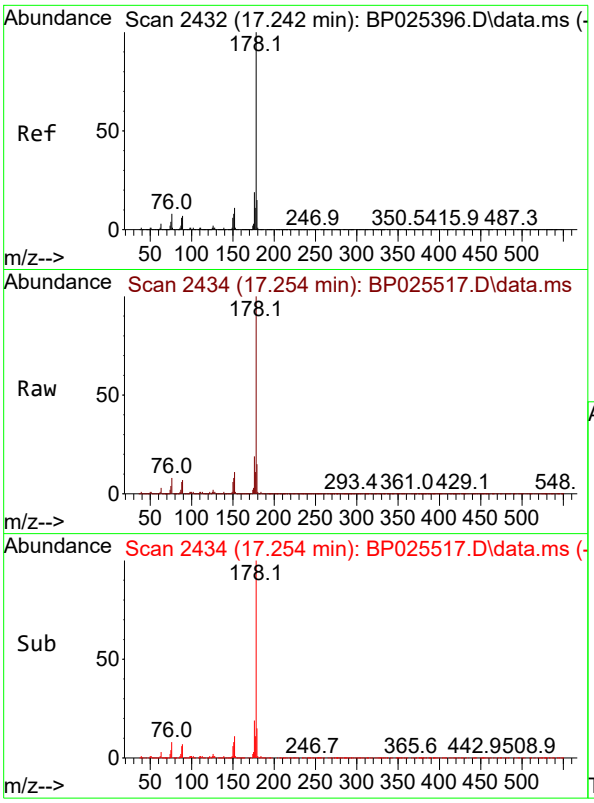


#70
Pentachlorophenol
Concen: 102.305 ng
RT: 16.854 min Scan# 2366
Delta R.T. 0.012 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:266 Resp: 733038

Ion	Ratio	Lower	Upper
266	100		
268	66.4	52.6	79.0
264	62.5	52.0	78.0



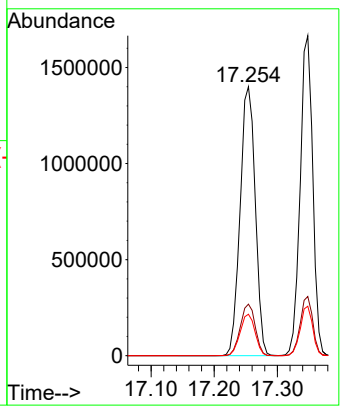


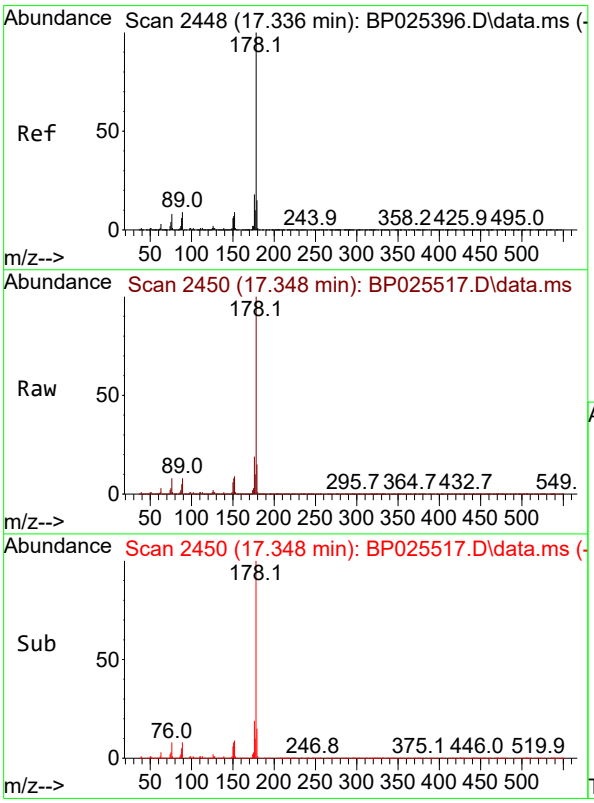
#71
Phenanthrene
Concen: 47.697 ng
RT: 17.254 min Scan# 24
Delta R.T. 0.012 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Instrument :
BNA_P
ClientSampleId :
22BP-WMSD

Tgt Ion:178 Resp: 2332780

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.5	23.3
179	15.4	12.2	18.4

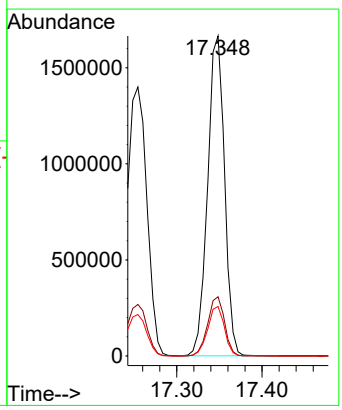


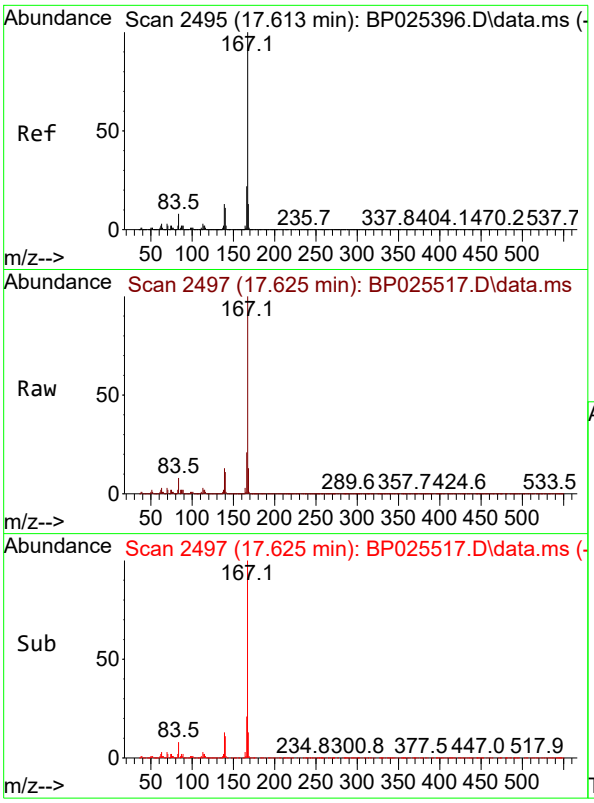


#72
Anthracene
Concen: 46.121 ng
RT: 17.348 min Scan# 2450
Delta R.T. 0.012 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:178 Resp: 2303551

Ion	Ratio	Lower	Upper
178	100		
176	18.5	14.7	22.1
179	15.4	12.2	18.2



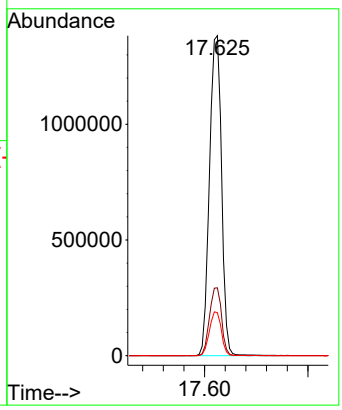


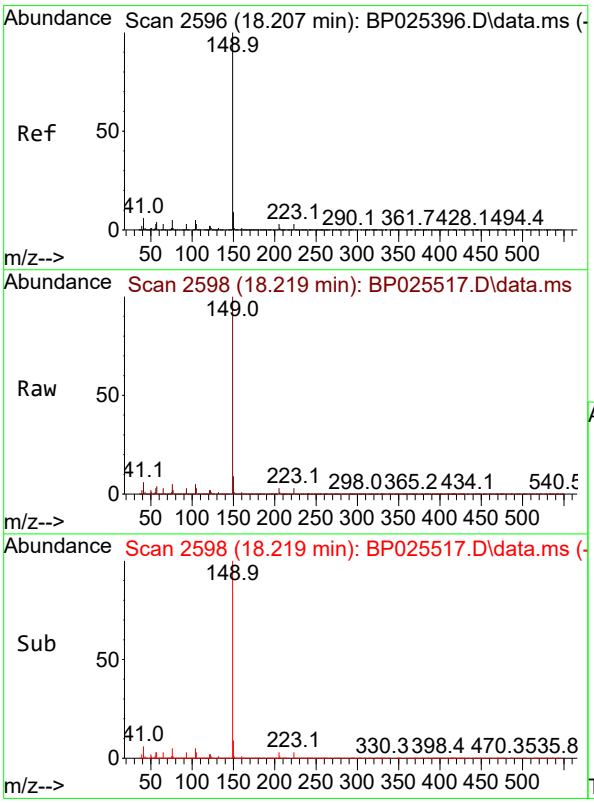
#73
Carbazole
Concen: 47.601 ng
RT: 17.625 min Scan# 24
Delta R.T. 0.012 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Instrument :
BNA_P
ClientSampleId :
22BP-WMSD

Tgt Ion:167 Resp: 2239338

Ion	Ratio	Lower	Upper
167	100		
166	21.2	17.5	26.3
139	13.5	10.6	16.0

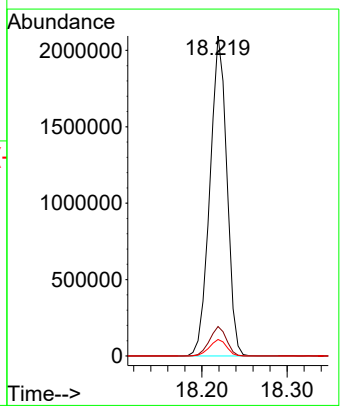


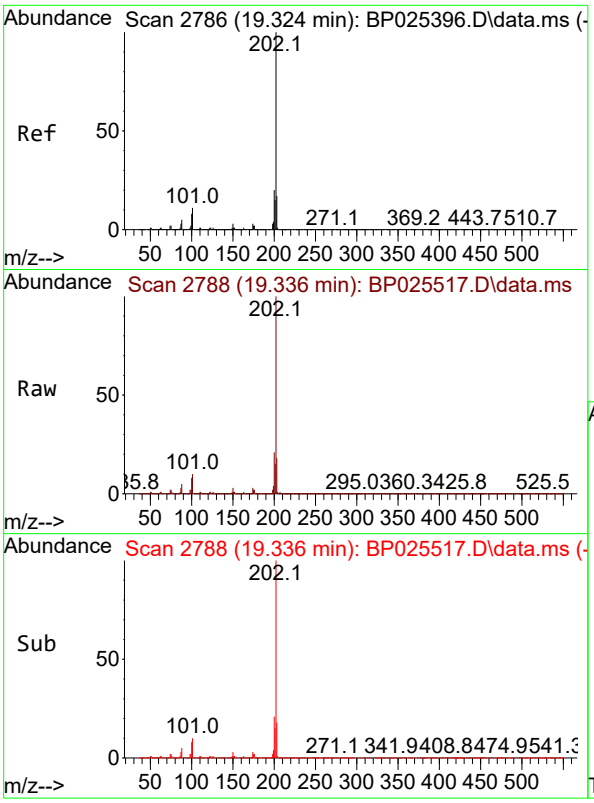


#74
Di-n-butylphthalate
Concen: 49.977 ng
RT: 18.219 min Scan# 2598
Delta R.T. 0.012 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:149 Resp: 2892663

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.4	11.0
104	5.2	4.2	6.2



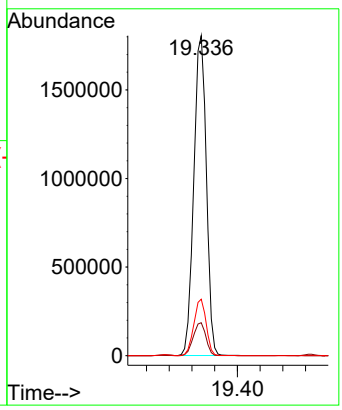


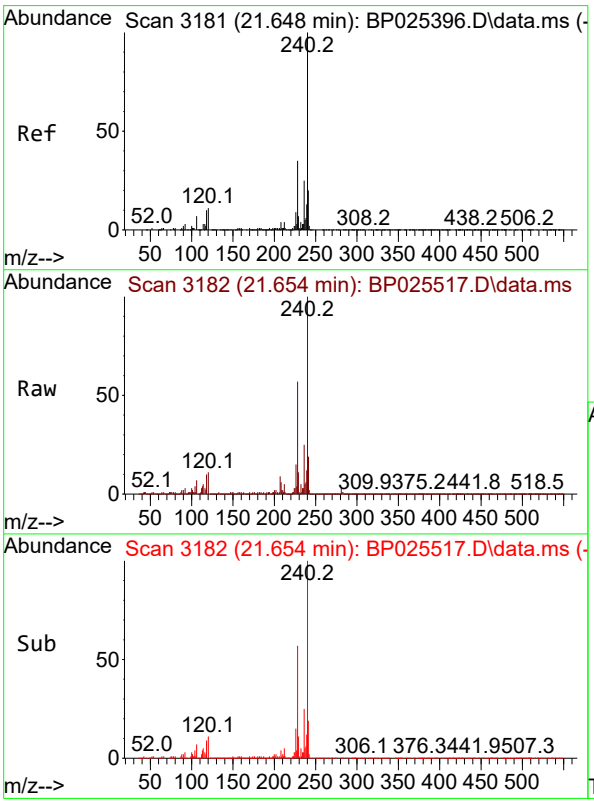
#75
Fluoranthene
Concen: 47.653 ng
RT: 19.336 min Scan# 2
Delta R.T. 0.012 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Instrument :
BNA_P
ClientSampleId :
22BP-WMSD

Tgt Ion:202 Resp: 2780027

Ion	Ratio	Lower	Upper
202	100		
101	10.3	0.0	31.1
203	17.7	0.0	37.3

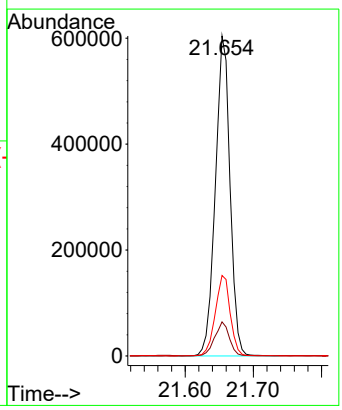


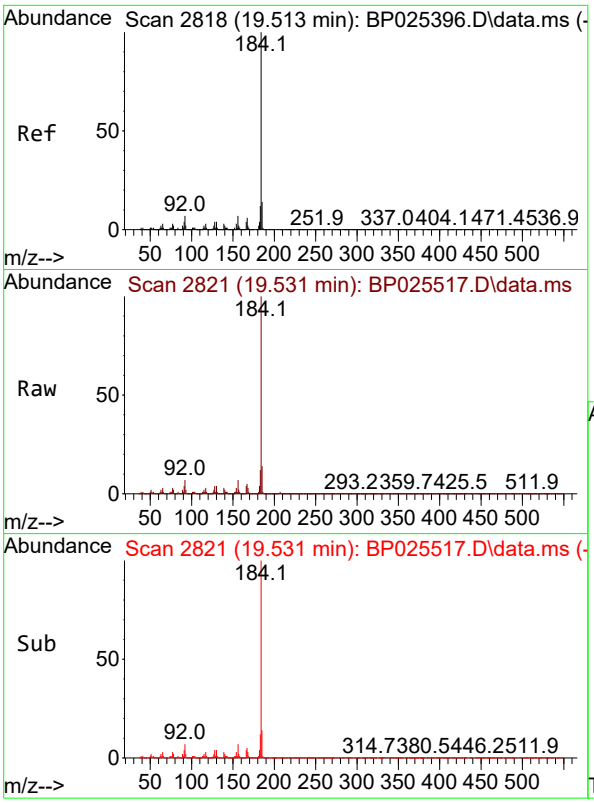


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.654 min Scan# 3182
Delta R.T. 0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:240 Resp: 903947

Ion	Ratio	Lower	Upper
240	100		
120	10.6	8.9	13.3
236	25.1	19.8	29.8



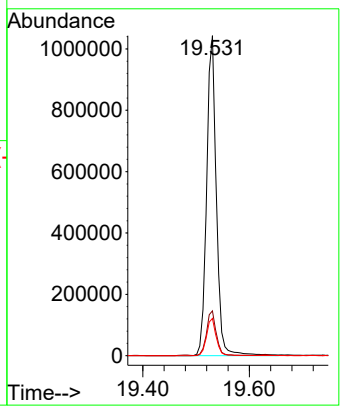


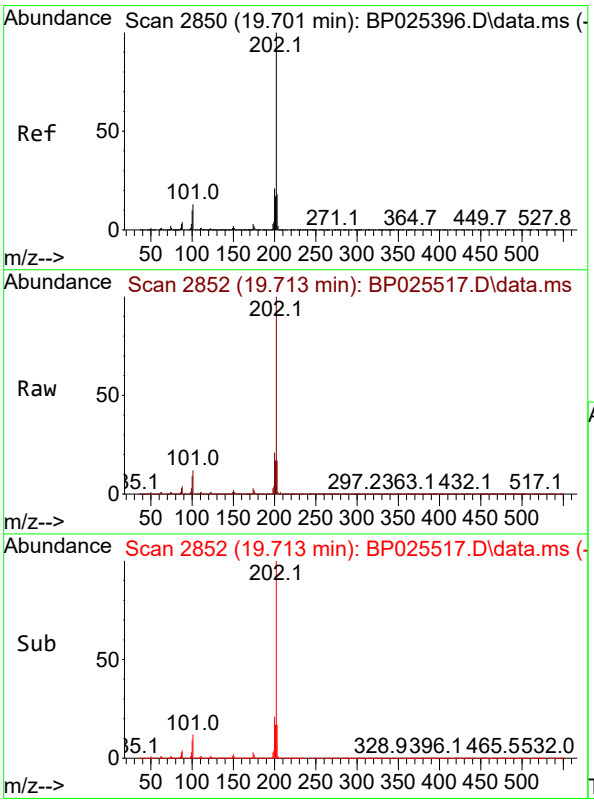
#77
Benzidine
Concen: 42.524 ng
RT: 19.531 min Scan# 2
Delta R.T. 0.018 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Instrument :
BNA_P
ClientSampleId :
22BP-WMSD

Tgt Ion:184 Resp: 1311867

Ion	Ratio	Lower	Upper
184	100		
185	14.0	11.5	17.3
183	11.7	9.4	14.2

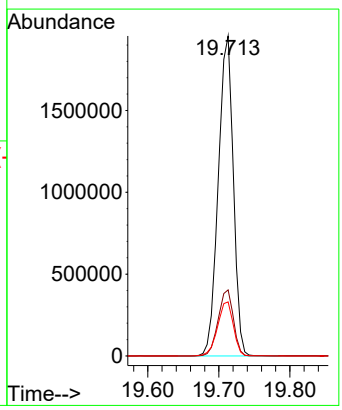


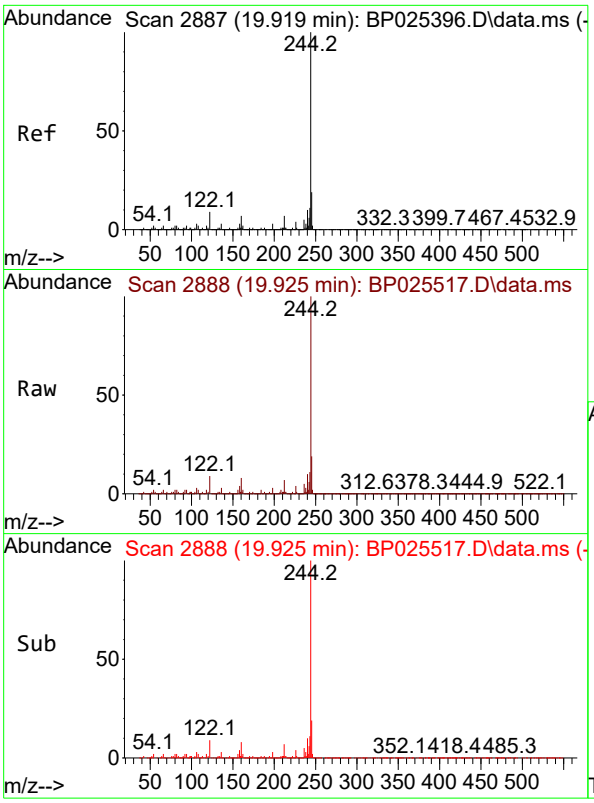


#78
Pyrene
Concen: 48.721 ng
RT: 19.713 min Scan# 2852
Delta R.T. 0.012 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:202 Resp: 2862551

Ion	Ratio	Lower	Upper
202	100		
200	20.7	16.9	25.3
203	16.9	14.2	21.2



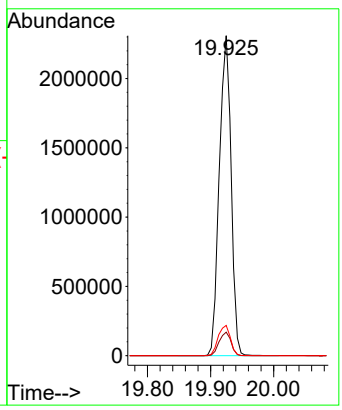


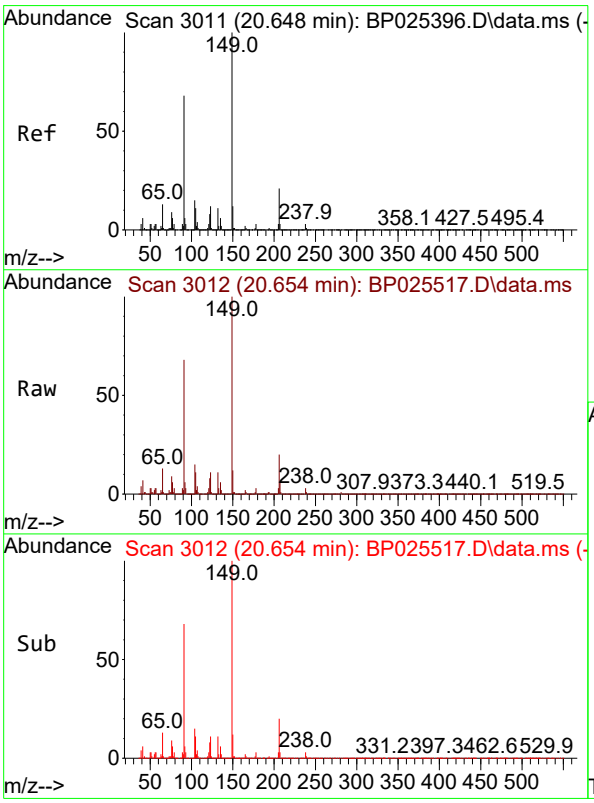
#79
Terphenyl-d14
Concen: 60.718 ng
RT: 19.925 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Instrument :
BNA_P
ClientSampleId :
22BP-WMSD

Tgt Ion:244 Resp: 2999909

Ion	Ratio	Lower	Upper
244	100		
212	7.3	5.8	8.6
122	9.4	7.4	11.2

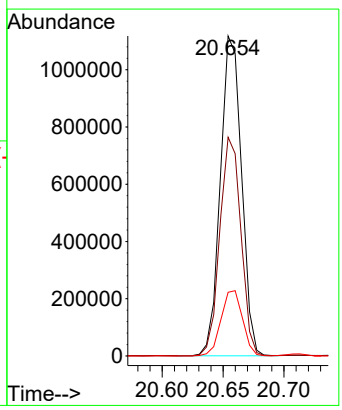


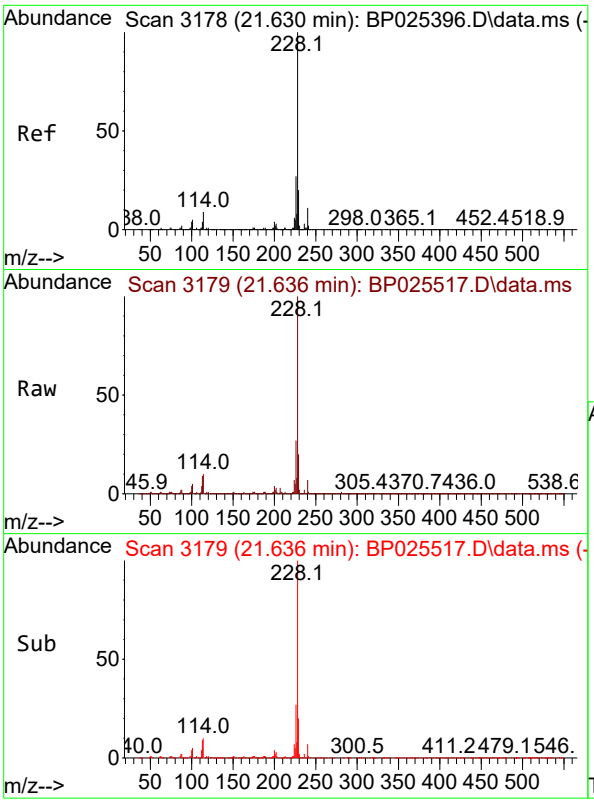


#80
Butylbenzylphthalate
Concen: 50.777 ng
RT: 20.654 min Scan# 3012
Delta R.T. 0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:149 Resp: 1352098

Ion	Ratio	Lower	Upper
149	100		
91	68.4	54.2	81.2
206	19.9	16.6	24.8



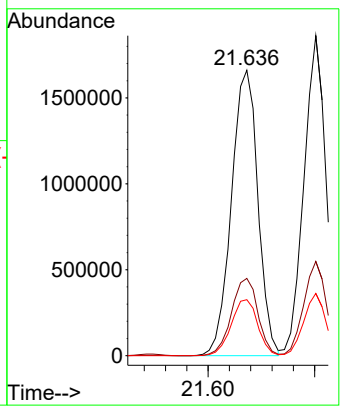


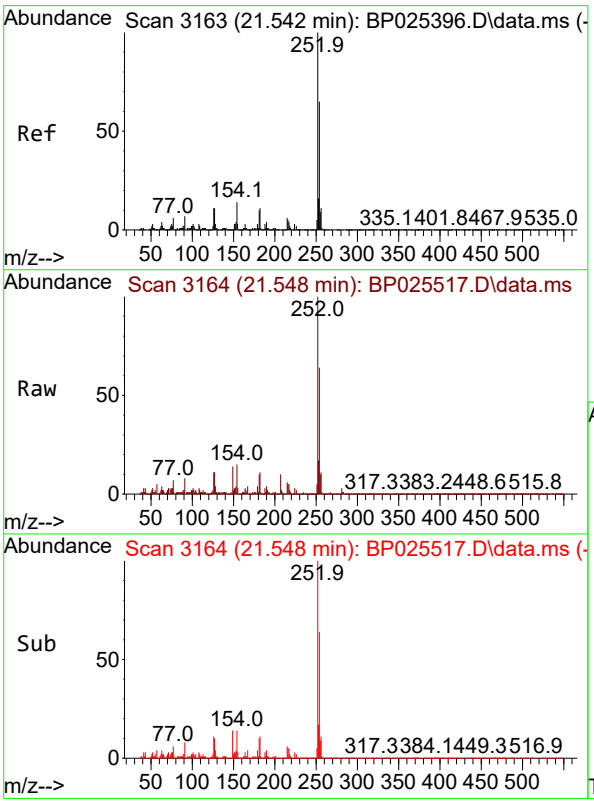
#81
Benzo(a)anthracene
Concen: 48.153 ng
RT: 21.636 min Scan# 3
Delta R.T. 0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Instrument :
BNA_P
ClientSampleId :
22BP-WMSD

Tgt Ion:228 Resp: 2870654

Ion	Ratio	Lower	Upper
228	100		
226	27.0	21.7	32.5
229	19.6	15.6	23.4

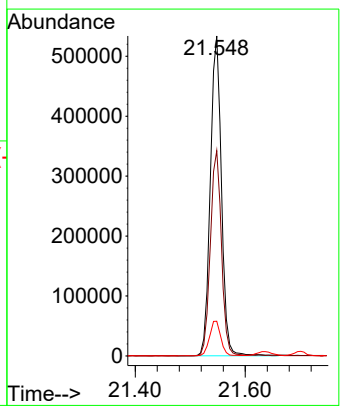


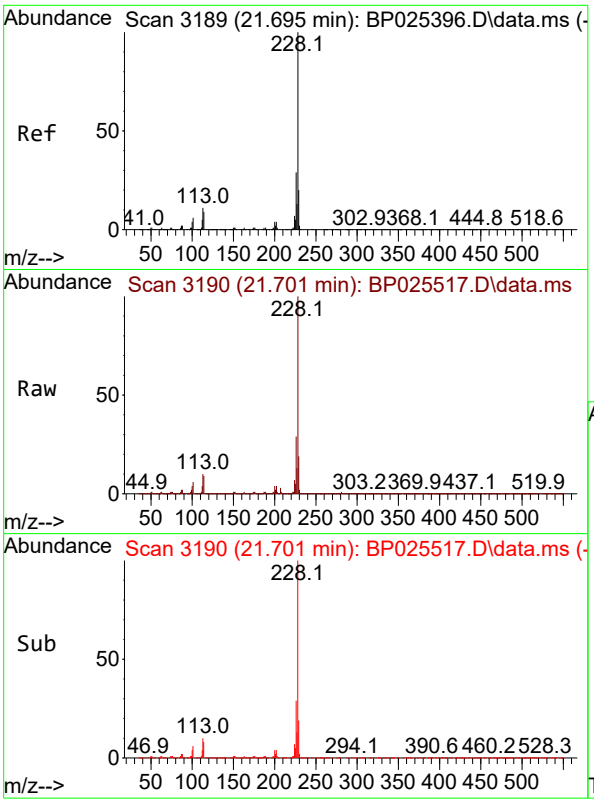


#82
3,3'-Dichlorobenzidine
Concen: 33.263 ng
RT: 21.548 min Scan# 3164
Delta R.T. 0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:252 Resp: 747438

Ion	Ratio	Lower	Upper
252	100		
254	64.2	51.8	77.6
126	10.8	9.1	13.7



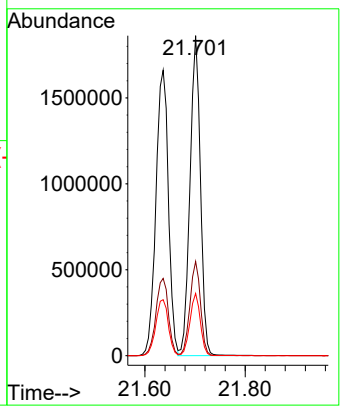


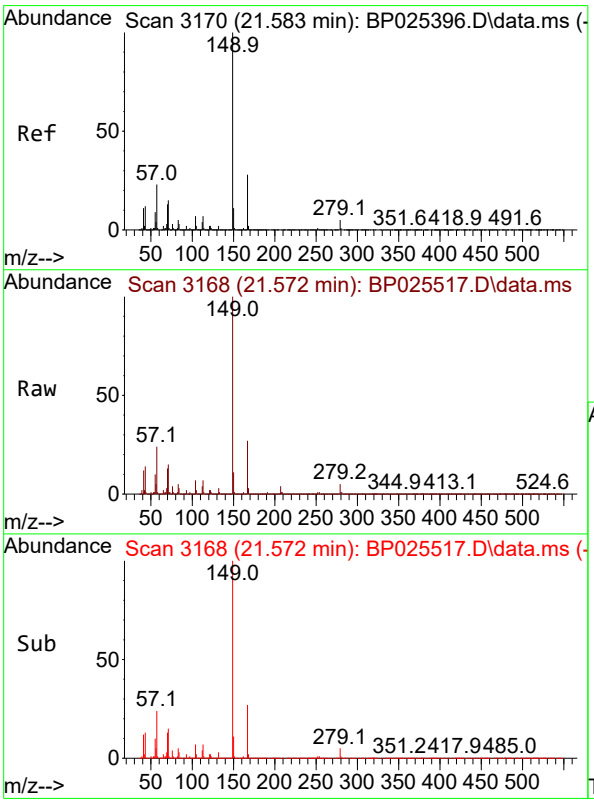
#83
Chrysene
Concen: 48.078 ng
RT: 21.701 min Scan# 3
Delta R.T. 0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Instrument :
BNA_P
ClientSampleId :
22BP-WMSD

Tgt Ion:228 Resp: 2684186

Ion	Ratio	Lower	Upper
228	100		
226	29.4	23.2	34.8
229	19.5	15.6	23.4

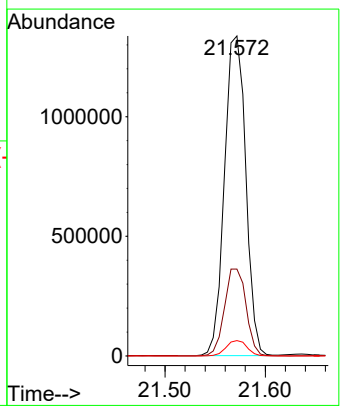


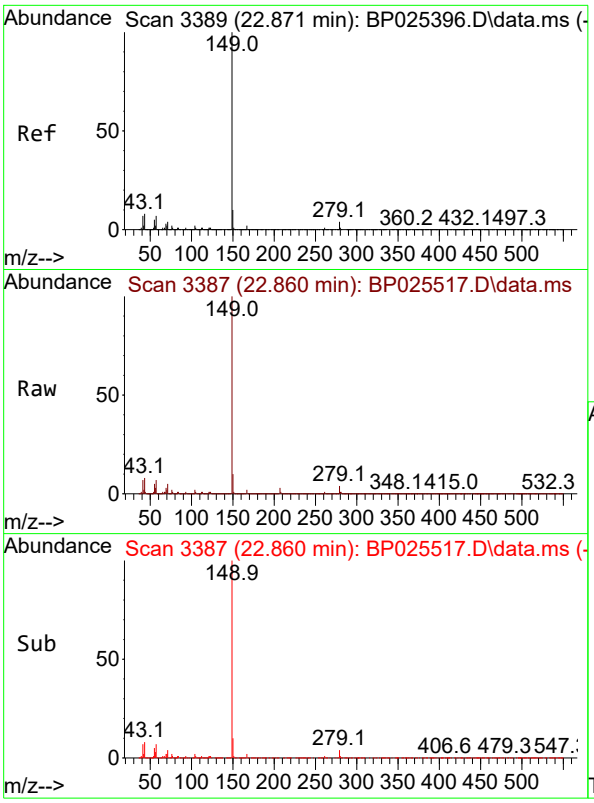


#84
Bis(2-ethylhexyl)phthalate
Concen: 50.332 ng
RT: 21.572 min Scan# 3168
Delta R.T. -0.012 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:149 Resp: 1972886

Ion	Ratio	Lower	Upper
149	100		
167	27.2	22.1	33.1
279	4.8	3.8	5.6



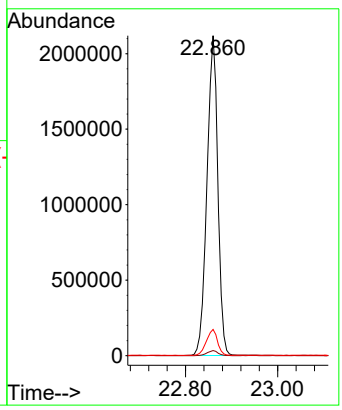


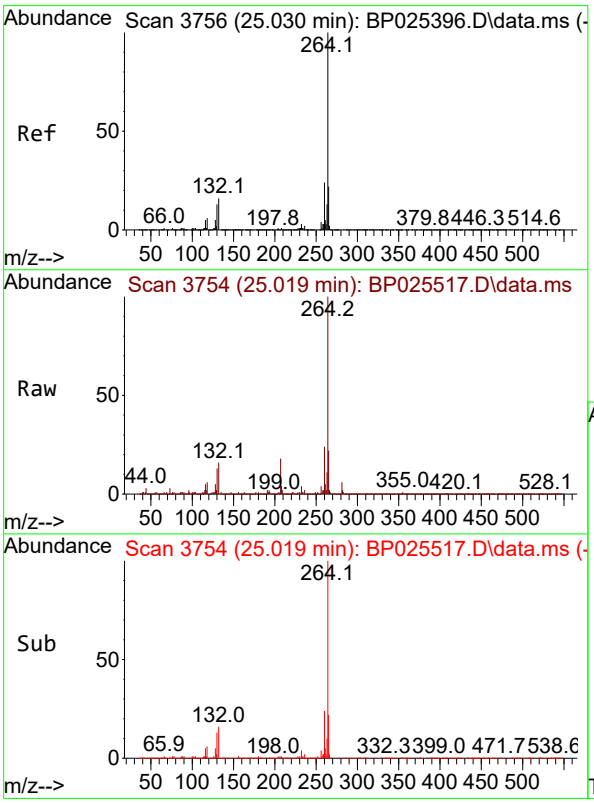
#85
Di-n-octyl phthalate
Concen: 51.668 ng
RT: 22.860 min Scan# 3
Delta R.T. -0.012 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Instrument :
BNA_P
ClientSampleId :
22BP-WMSD

Tgt Ion:149 Resp: 3483541

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	8.3	6.3	9.5

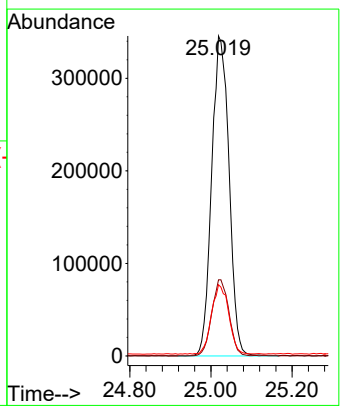


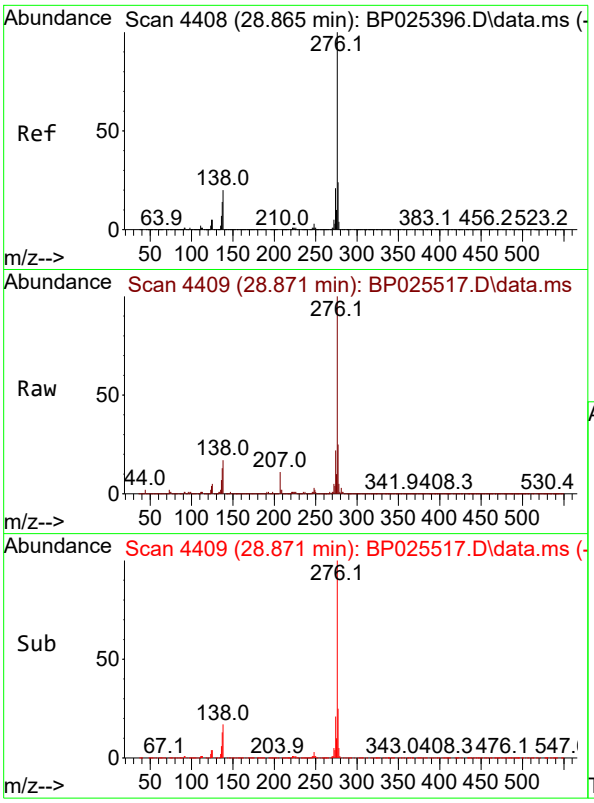


#86
Perylene-d12
Concen: 20.000 ng
RT: 25.019 min Scan# 3754
Delta R.T. -0.012 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:264 Resp: 1025346

Ion	Ratio	Lower	Upper
264	100		
260	23.8	19.3	28.9
265	22.3	17.4	26.0



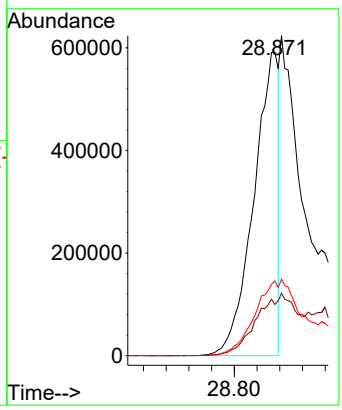


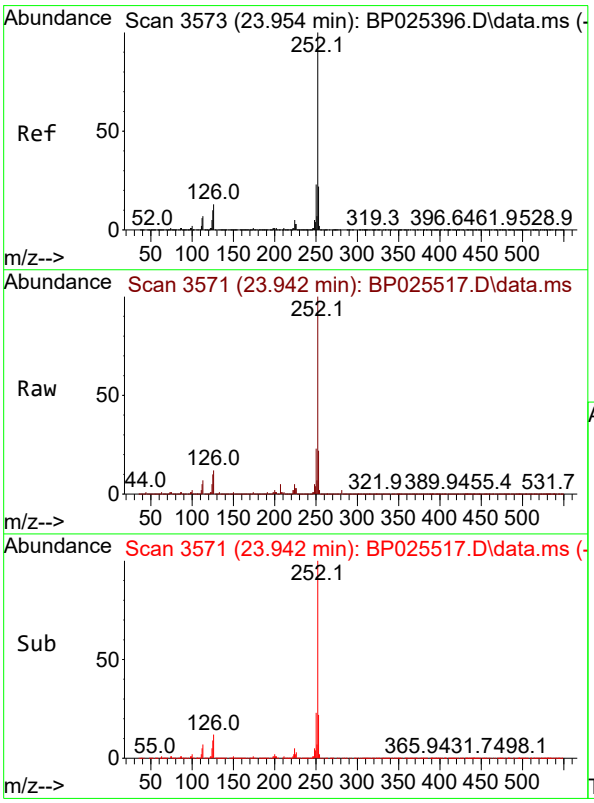
#87
Indeno(1,2,3-cd)pyrene
Concen: 23.772 ng
RT: 28.871 min Scan# 4
Delta R.T. 0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Instrument :
BNA_P
ClientSampleId :
22BP-WMSD

Tgt Ion:276 Resp: 1787509

Ion	Ratio	Lower	Upper
276	100		
138	34.2	12.9	19.3#
277	24.3	17.0	25.6

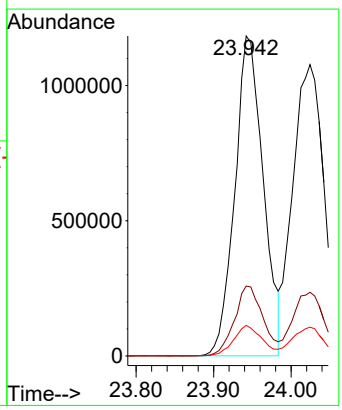


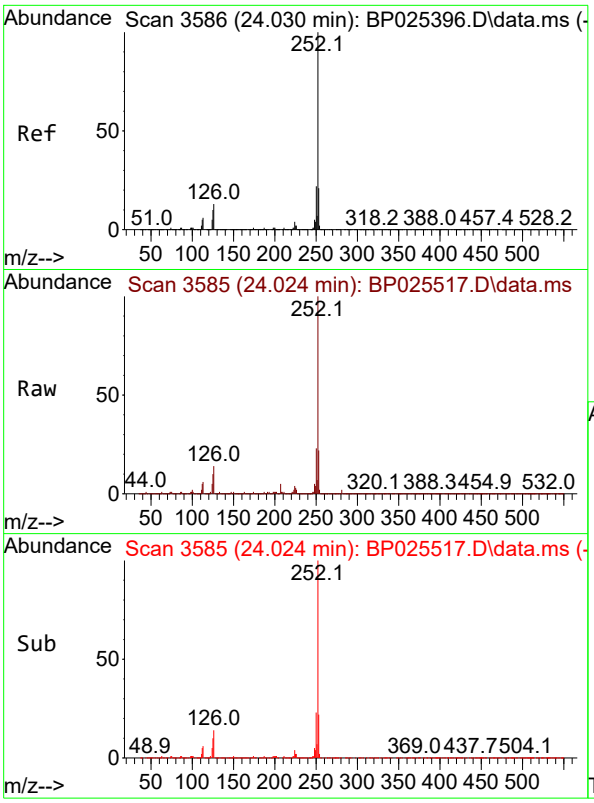


#88
Benzo(b)fluoranthene
Concen: 49.886 ng
RT: 23.942 min Scan# 3571
Delta R.T. -0.012 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:252 Resp: 3016187

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.7	26.5
125	9.6	7.9	11.9



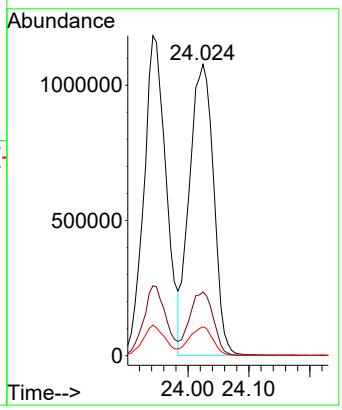


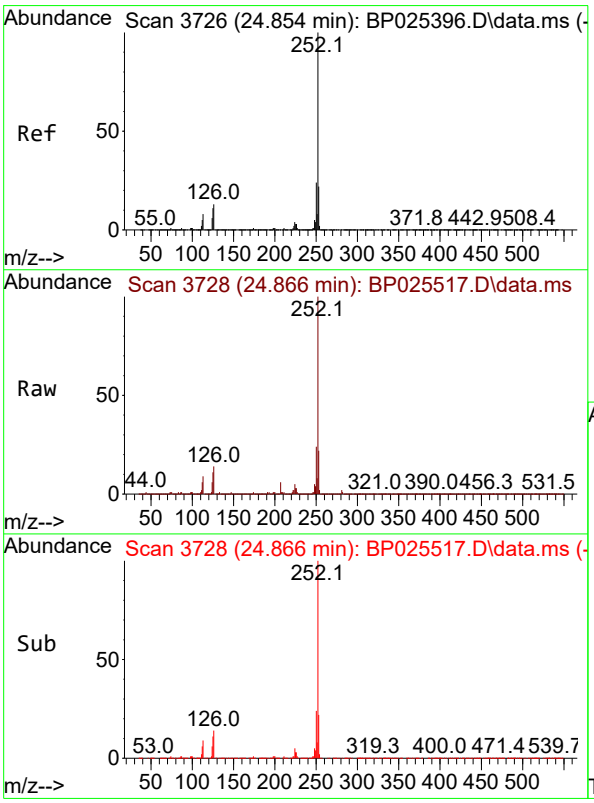
#89
Benzo(k)fluoranthene
Concen: 49.184 ng
RT: 24.024 min Scan# 3
Delta R.T. -0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Instrument :
BNA_P
ClientSampleId :
22BP-WMSD

Tgt Ion:252 Resp: 2975796

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.1	25.7
125	9.9	7.8	11.6

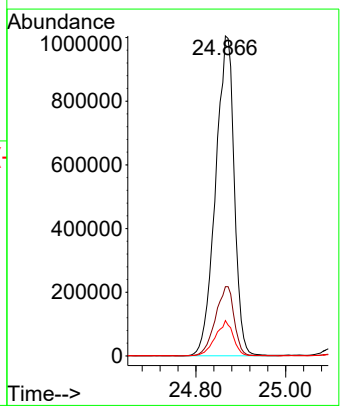


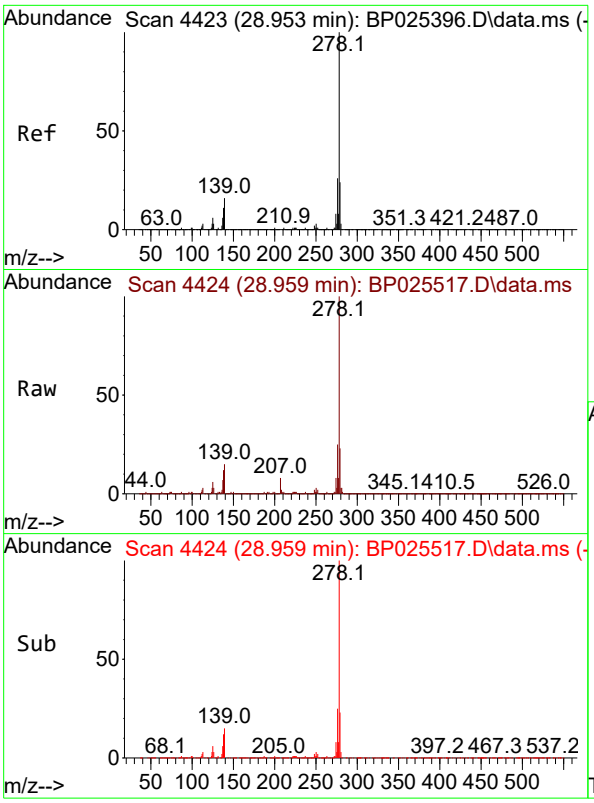


#90
Benzo(a)pyrene
Concen: 49.381 ng
RT: 24.866 min Scan# 3728
Delta R.T. 0.012 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:252 Resp: 2906291

Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.5	26.3
125	11.0	8.7	13.1



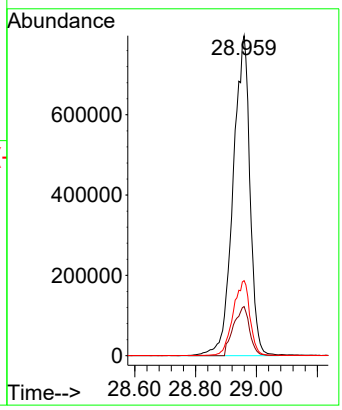


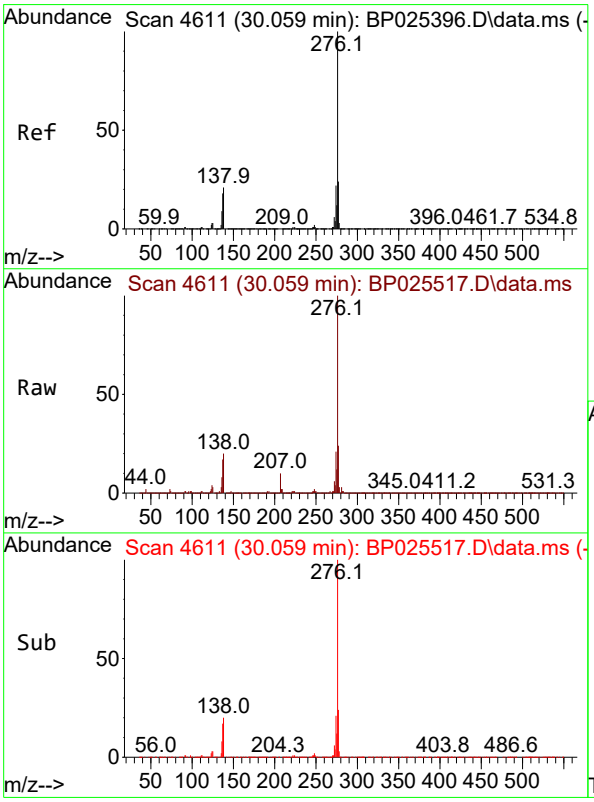
#91
Dibenzo(a,h)anthracene
Concen: 49.809 ng
RT: 28.959 min Scan# 44
Delta R.T. 0.006 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Instrument :
BNA_P
ClientSampleId :
22BP-WMSD

Tgt Ion:278 Resp: 3060770

Ion	Ratio	Lower	Upper
278	100		
139	15.4	13.0	19.4
279	23.4	19.4	29.2

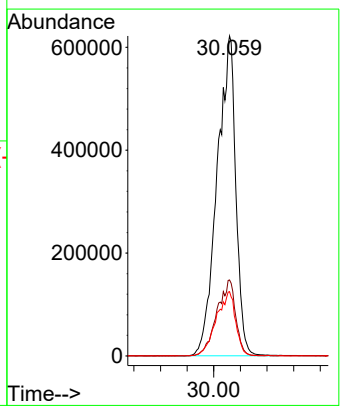




#92
Benzo(g,h,i)perylene
Concen: 50.261 ng
RT: 30.059 min Scan# 4611
Delta R.T. 0.000 min
Lab File: BP025517.D
Acq: 20 Aug 2025 21:52

Tgt Ion:276 Resp: 3035965

Ion	Ratio	Lower	Upper
276	100		
277	23.8	19.4	29.0
138	20.1	16.7	25.1



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025520.D
Acq On : 20 Aug 2025 23:54
Operator : CG/JU
Sample : Q2819-17MS
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
38M-NMS

Quant Time: Aug 21 01:39:50 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.784	152	163086	20.000	ng	-0.01
21) Naphthalene-d8	10.554	136	635345	20.000	ng	0.00
39) Acenaphthene-d10	14.407	164	403432	20.000	ng	0.00
64) Phenanthrene-d10	17.213	188	837501	20.000	ng	0.01
76) Chrysene-d12	21.648	240	894140	20.000	ng	0.00
86) Perylene-d12	25.012	264	1028739	20.000	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.408	112	989172	100.727	ng	0.00
7) Phenol-d6	6.966	99	1240787	98.550	ng	0.00
23) Nitrobenzene-d5	8.925	82	804810	64.078	ng	-0.01
42) 2,4,6-Tribromophenol	15.919	330	543808	100.145	ng	0.00
45) 2-Fluorobiphenyl	13.013	172	1679128	56.883	ng	0.00
79) Terphenyl-d14	19.919	244	2776530	56.813	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.331	88	158752	41.271	ng	98
3) Pyridine	3.725	79	424150	40.286	ng	95
4) n-Nitrosodimethylamine	3.631	42	208103	47.944	ng	93
6) Aniline	7.119	93	566664	33.405	ng	98
8) 2-Chlorophenol	7.360	128	507351	45.782	ng	99
9) Benzaldehyde	6.937	77	241200	27.344	ng	99
10) Phenol	6.990	94	599139	45.350	ng	96
11) bis(2-Chloroethyl)ether	7.213	93	449455	43.648	ng	98
12) 1,3-Dichlorobenzene	7.678	146	540474	44.230	ng	99
13) 1,4-Dichlorobenzene	7.819	146	551846	44.184	ng	99
14) 1,2-Dichlorobenzene	8.137	146	529135	43.766	ng	99
15) Benzyl Alcohol	8.019	79	445758	44.558	ng	97
16) 2,2'-oxybis(1-Chloropr...	8.302	45	614047	44.515	ng	97
17) 2-Methylphenol	8.225	107	410870	44.779	ng	97
18) Hexachloroethane	8.854	117	207815	45.254	ng	99
19) n-Nitroso-di-n-propyla...	8.578	70	342780	41.102	ng	95
20) 3+4-Methylphenols	8.549	107	560181	44.044	ng	97
22) Acetophenone	8.596	105	721397	45.276	ng	98
24) Nitrobenzene	8.966	77	518939	46.231	ng	98
25) Isophorone	9.496	82	977284	43.967	ng	99
26) 2-Nitrophenol	9.672	139	268342	46.582	ng	96
27) 2,4-Dimethylphenol	9.737	122	451118	45.537	ng	97
28) bis(2-Chloroethoxy)met...	9.966	93	598293	44.529	ng	99
29) 2,4-Dichlorophenol	10.207	162	461305	46.875	ng	98
30) 1,2,4-Trichlorobenzene	10.419	180	476140	44.136	ng	100
31) Naphthalene	10.607	128	1465253	44.371	ng	100
32) Benzoic acid	9.884	122	357969	48.944	ng	97
33) 4-Chloroaniline	10.707	127	444888	30.500	ng	99
34) Hexachlorobutadiene	10.895	225	307838	45.819	ng	98
35) Caprolactam	11.495	113	166502	46.140	ng	97
36) 4-Chloro-3-methylphenol	11.837	107	524543	46.451	ng	96
37) 2-Methylnaphthalene	12.213	142	931072	43.326	ng	99
38) 1-Methylnaphthalene	12.431	142	982511	42.991	ng	99
40) 1,2,4,5-Tetrachloroben...	12.584	216	529445	45.440	ng	98
41) Hexachlorocyclopentadiene	12.566	237	649355	92.264	ng	99
43) 2,4,6-Trichlorophenol	12.825	196	376373	47.848	ng	99

Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025520.D
Acq On : 20 Aug 2025 23:54
Operator : CG/JU
Sample : Q2819-17MS
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
38M-NMS

Quant Time: Aug 21 01:39:50 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.895	196	422835	49.047	ng	99
46) 1,1'-Biphenyl	13.225	154	1330277	45.403	ng	99
47) 2-Chloronaphthalene	13.266	162	1023704	44.881	ng	99
48) 2-Nitroaniline	13.472	65	336748	50.668	ng	96
49) Acenaphthylene	14.125	152	1737611	46.038	ng	100
50) Dimethylphthalate	13.860	163	1350968	45.729	ng	100
51) 2,6-Dinitrotoluene	13.966	165	303179	48.690	ng	95
52) Acenaphthene	14.472	154	1000372	45.154	ng	99
53) 3-Nitroaniline	14.295	138	250146	35.706	ng	95
54) 2,4-Dinitrophenol	14.519	184	370066	111.289	ng	97
55) Dibenzofuran	14.813	168	1576282	45.003	ng	98
56) 4-Nitrophenol	14.625	139	587000	101.965	ng	93
57) 2,4-Dinitrotoluene	14.772	165	448248	50.455	ng	97
58) Fluorene	15.472	166	1241069	44.904	ng	99
59) 2,3,4,6-Tetrachlorophenol	15.042	232	374029	49.135	ng	99
60) Diethylphthalate	15.242	149	1397636	46.559	ng	99
61) 4-Chlorophenyl-phenyle...	15.466	204	608258	44.251	ng	97
62) 4-Nitroaniline	15.483	138	343690	47.854	ng	95
63) Azobenzene	15.760	77	1380940	53.725	ng	98
65) 4,6-Dinitro-2-methylph...	15.548	198	257102	49.248	ng	93
66) n-Nitrosodiphenylamine	15.678	169	1129376	44.222	ng	100
67) 4-Bromophenyl-phenylether	16.372	248	406044	44.083	ng	97
68) Hexachlorobenzene	16.495	284	473408	44.337	ng	98
69) Atrazine	16.654	200	449335	46.980	ng	98
70) Pentachlorophenol	16.848	266	659972	97.917	ng	97
71) Phenanthrene	17.248	178	2073388	45.067	ng	100
72) Anthracene	17.336	178	2127785	45.289	ng	100
73) Carbazole	17.619	167	2076151	46.915	ng	99
74) Di-n-butylphthalate	18.213	149	2628515	48.277	ng	100
75) Fluoranthene	19.330	202	2523020	45.975	ng	99
77) Benzidine	19.519	184	1302891	42.697	ng	99
78) Pyrene	19.707	202	2624941	45.167	ng	99
80) Butylbenzylphthalate	20.648	149	1275745	48.436	ng	97
81) Benzo(a)anthracene	21.624	228	2770305	46.979	ng	100
82) 3,3'-Dichlorobenzidine	21.536	252	727315	32.723	ng	100
83) Chrysene	21.695	228	2564073	46.430	ng	99
84) Bis(2-ethylhexyl)phtha...	21.560	149	1867112	48.156	ng	100
85) Di-n-octyl phthalate	22.842	149	3279123	49.169	ng	99
87) Indeno(1,2,3-cd)pyrene	28.836	276	2916461	38.657	ng	93
88) Benzo(b)fluoranthene	23.930	252	2767890	45.628	ng	99
89) Benzo(k)fluoranthene	24.007	252	2818197	46.426	ng	99
90) Benzo(a)pyrene	24.854	252	2706532	45.835	ng	99
91) Dibenzo(a,h)anthracene	28.936	278	2845641	46.156	ng	97
92) Benzo(g,h,i)perylene	30.036	276	2827568	46.657	ng	99

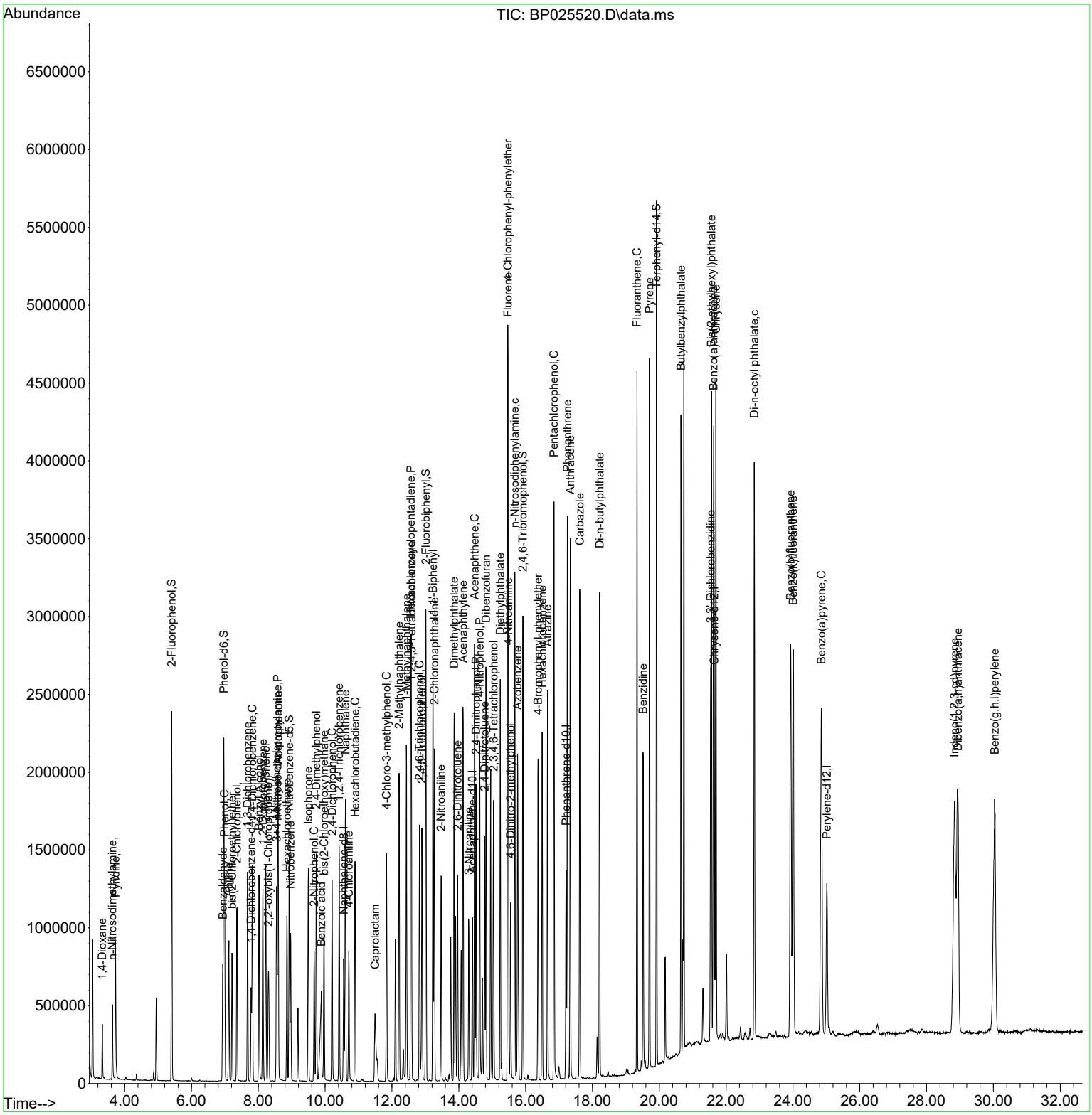
(#) = qualifier out of range (m) = manual integration (+) = signals summed

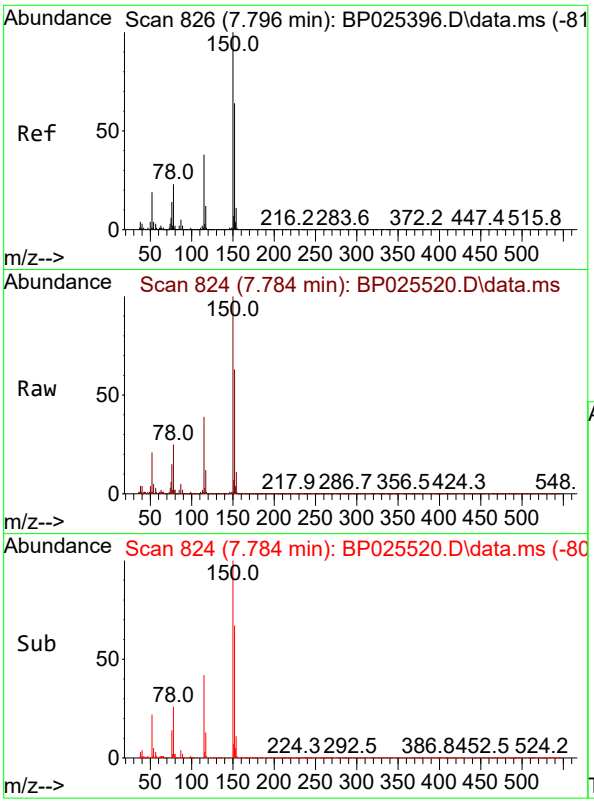
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025520.D
Acq On : 20 Aug 2025 23:54
Operator : CG/JU
Sample : Q2819-17MS
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
38M-NMS

Quant Time: Aug 21 01:39:50 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration



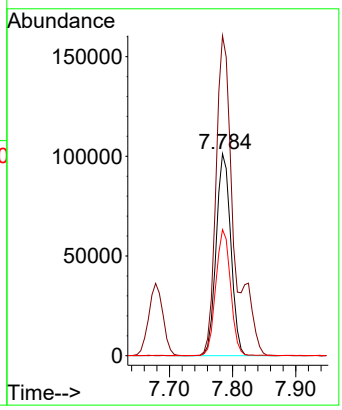


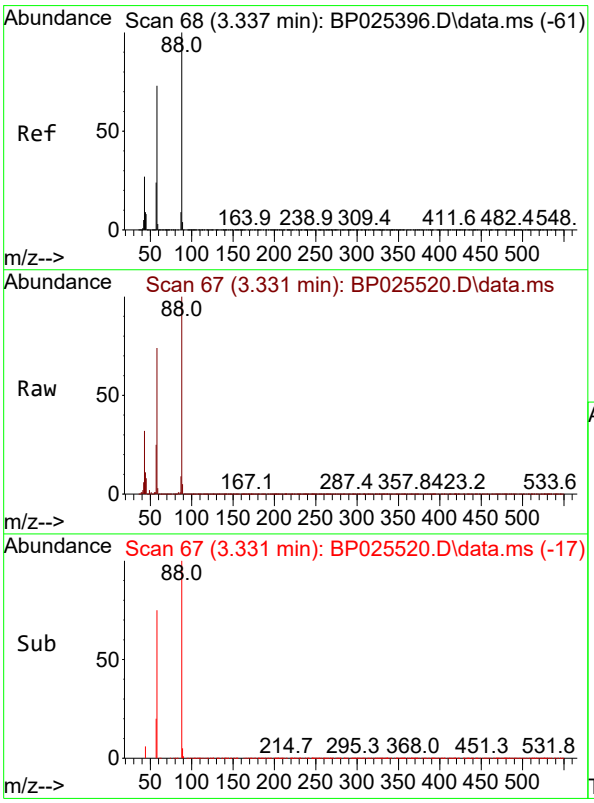
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.784 min Scan# 8
Delta R.T. -0.012 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Instrument :
BNA_P
ClientSampleId :
38M-NMS

Tgt Ion:152 Resp: 163086

Ion	Ratio	Lower	Upper
152	100		
150	158.4	125.9	188.9
115	62.4	48.5	72.7

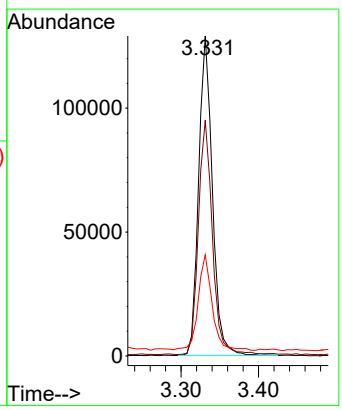


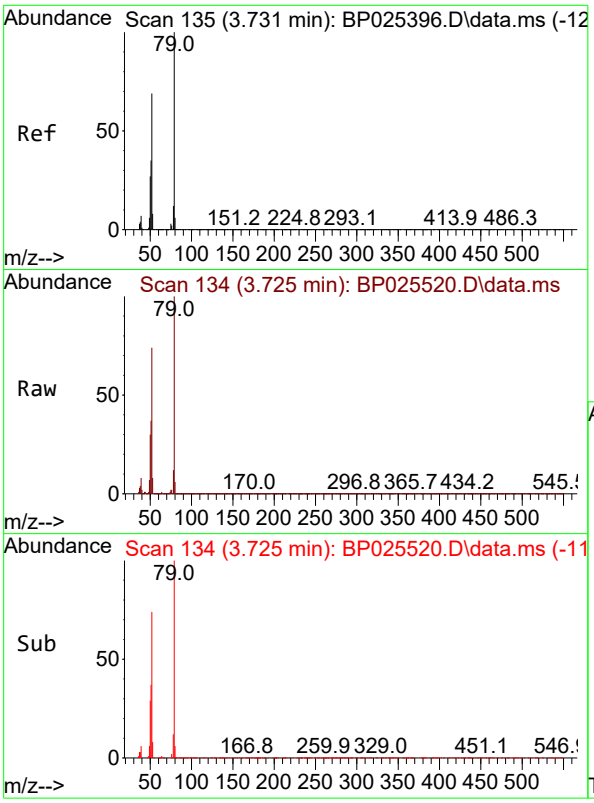


#2
1,4-Dioxane
Concen: 41.271 ng
RT: 3.331 min Scan# 67
Delta R.T. -0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion: 88 Resp: 158752

Ion	Ratio	Lower	Upper
88	100		
58	74.8	59.2	88.8
43	30.3	21.7	32.5



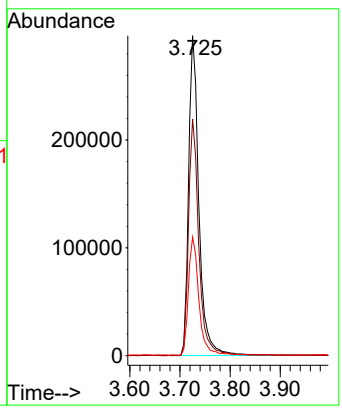


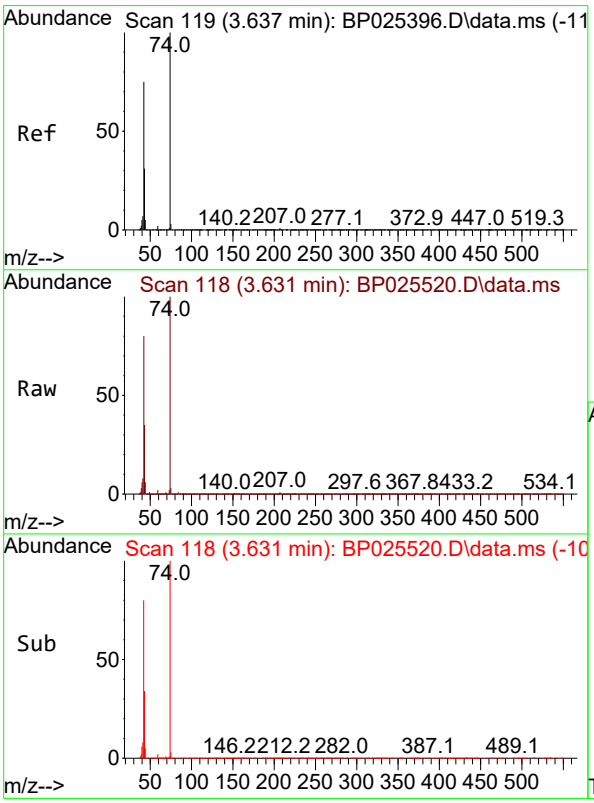
#3
Pyridine
Concen: 40.286 ng
RT: 3.725 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Instrument :
BNA_P
ClientSampleId :
38M-NMS

Tgt Ion: 79 Resp: 424150

Ion	Ratio	Lower	Upper
79	100		
52	73.9	55.5	83.3
51	37.1	28.3	42.5

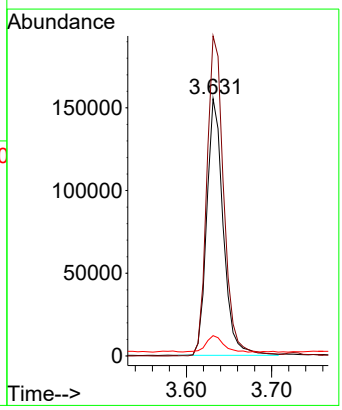


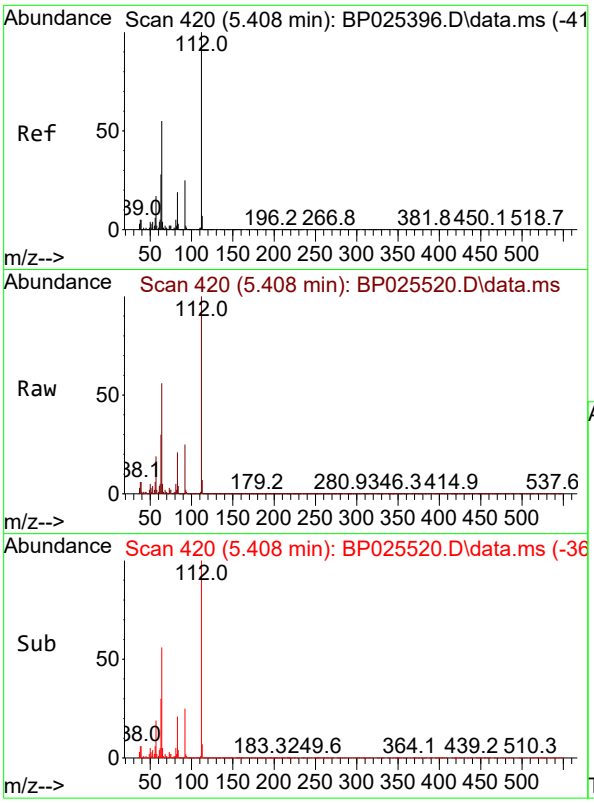


#4
n-Nitrosodimethylamine
Concen: 47.944 ng
RT: 3.631 min Scan# 118
Delta R.T. -0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion: 42 Resp: 208103

Ion	Ratio	Lower	Upper
42	100		
74	124.4	107.0	160.4
44	7.9	6.2	9.4



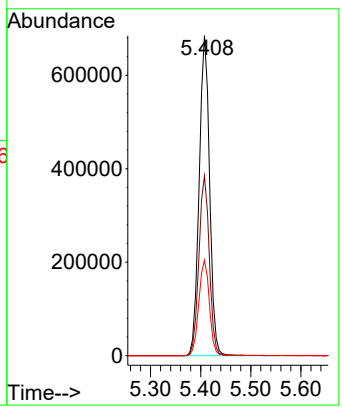


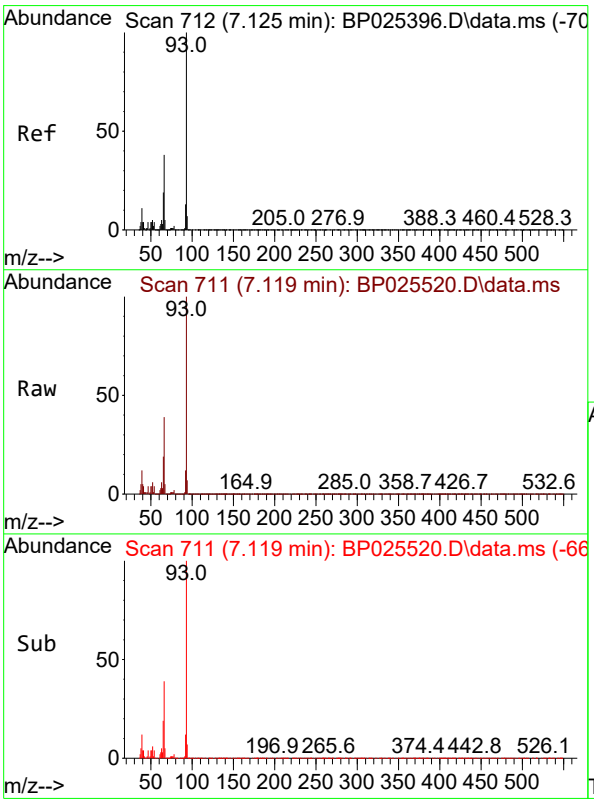
#5
2-Fluorophenol
Concen: 100.727 ng
RT: 5.408 min Scan# 4
Delta R.T. -0.000 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Instrument :
BNA_P
ClientSampleId :
38M-NMS

Tgt Ion:112 Resp: 989172

Ion	Ratio	Lower	Upper
112	100		
64	56.2	43.8	65.8
63	29.8	22.7	34.1

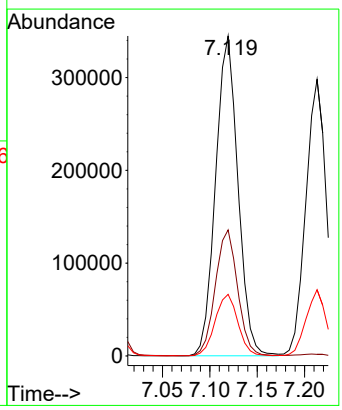


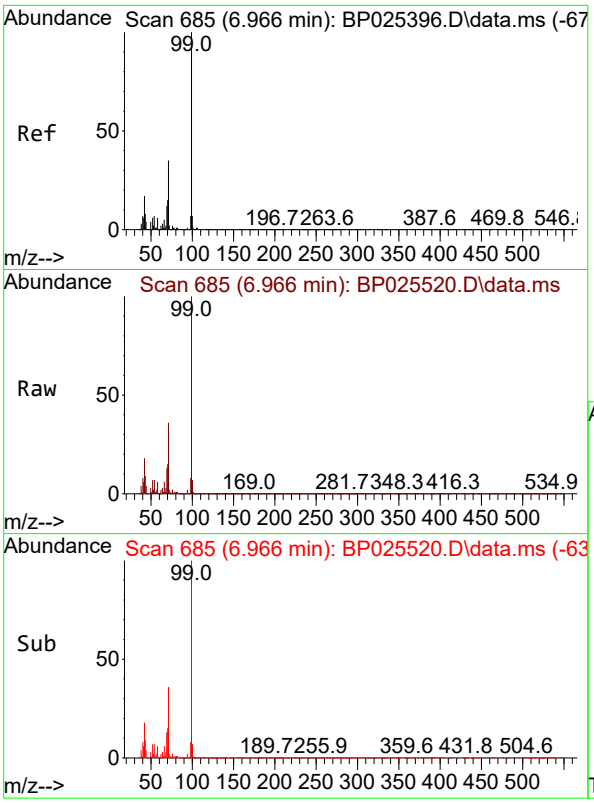


#6
Aniline
Concen: 33.405 ng
RT: 7.119 min Scan# 711
Delta R.T. -0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion: 93 Resp: 566664

Ion	Ratio	Lower	Upper
93	100		
66	39.4	30.4	45.6
65	19.2	15.3	22.9



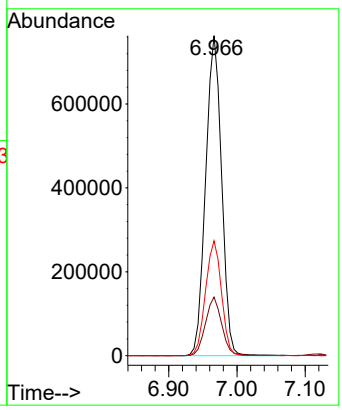


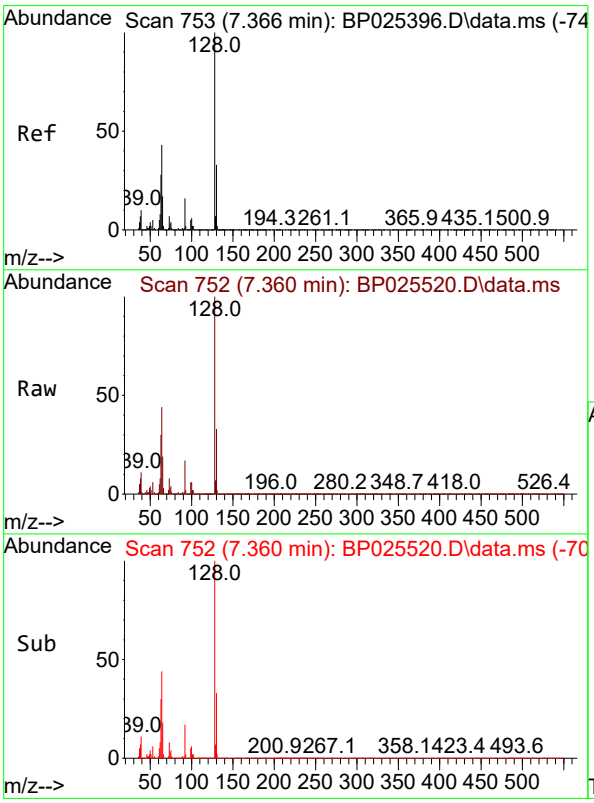
#7
Phenol-d6
Concen: 98.550 ng
RT: 6.966 min Scan# 6
Delta R.T. -0.000 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Instrument :
BNA_P
ClientSampleId :
38M-NMS

Tgt Ion: 99 Resp: 1240787

Ion	Ratio	Lower	Upper
99	100		
42	18.3	13.7	20.5
71	35.9	28.2	42.4

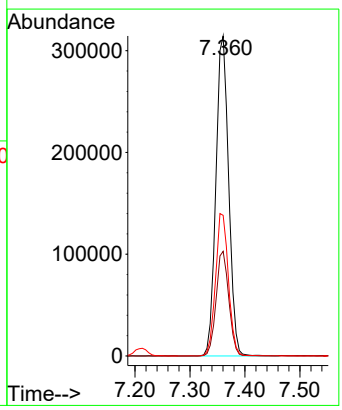


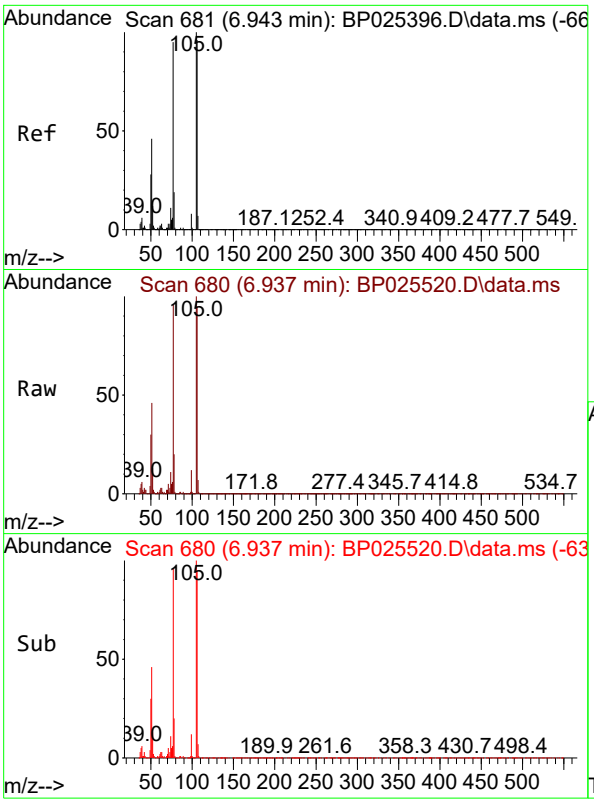


#8
2-Chlorophenol
Concen: 45.782 ng
RT: 7.360 min Scan# 752
Delta R.T. -0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:128 Resp: 507351

Ion	Ratio	Lower	Upper
128	100		
130	32.7	12.6	52.6
64	43.9	23.4	63.4



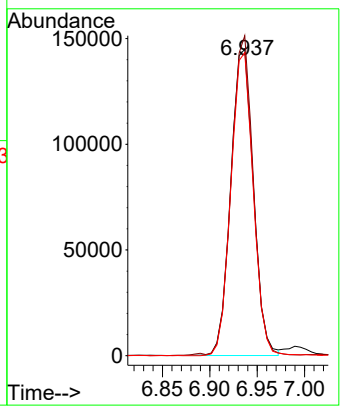


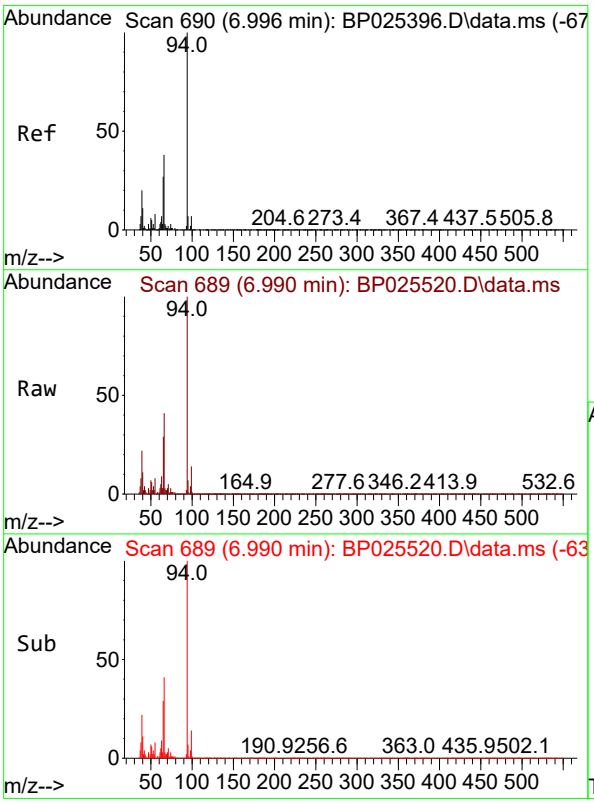
#9
Benzaldehyde
Concen: 27.344 ng
RT: 6.937 min Scan# 6
Delta R.T. -0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Instrument :
BNA_P
ClientSampleId :
38M-NMS

Tgt Ion: 77 Resp: 241200

Ion	Ratio	Lower	Upper
77	100		
105	104.4	84.8	124.8
106	98.9	80.5	120.5

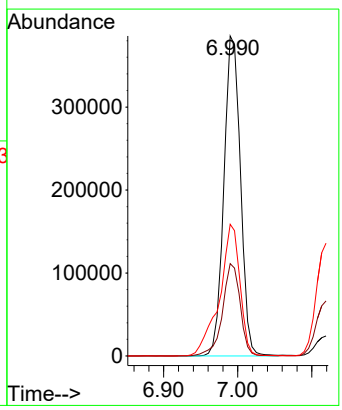


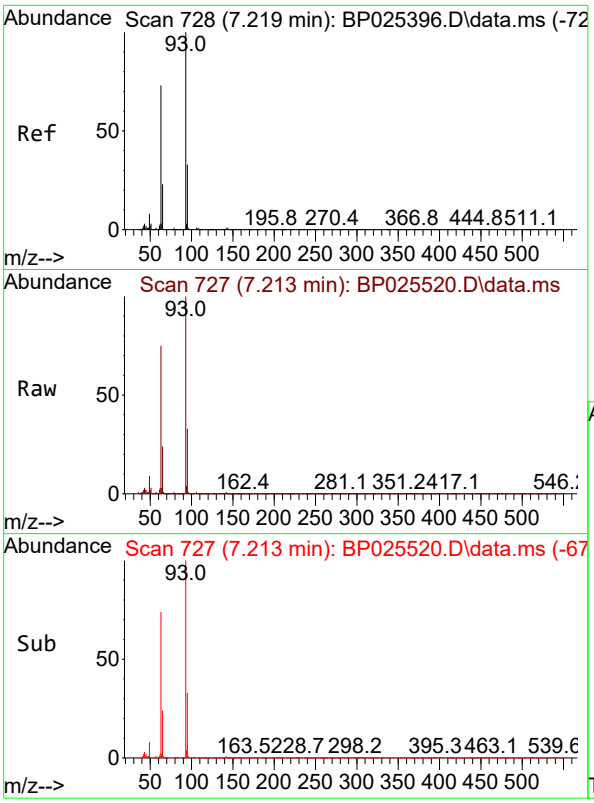


#10
Phenol
Concen: 45.350 ng
RT: 6.990 min Scan# 689
Delta R.T. -0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion: 94 Resp: 599139

Ion	Ratio	Lower	Upper
94	100		
65	28.8	6.8	46.8
66	41.1	18.2	58.2



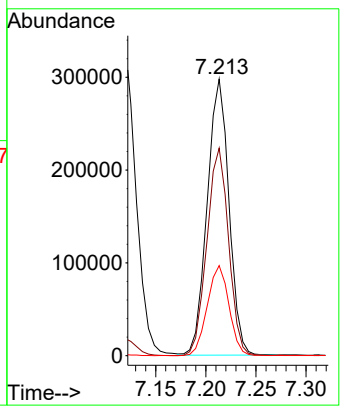


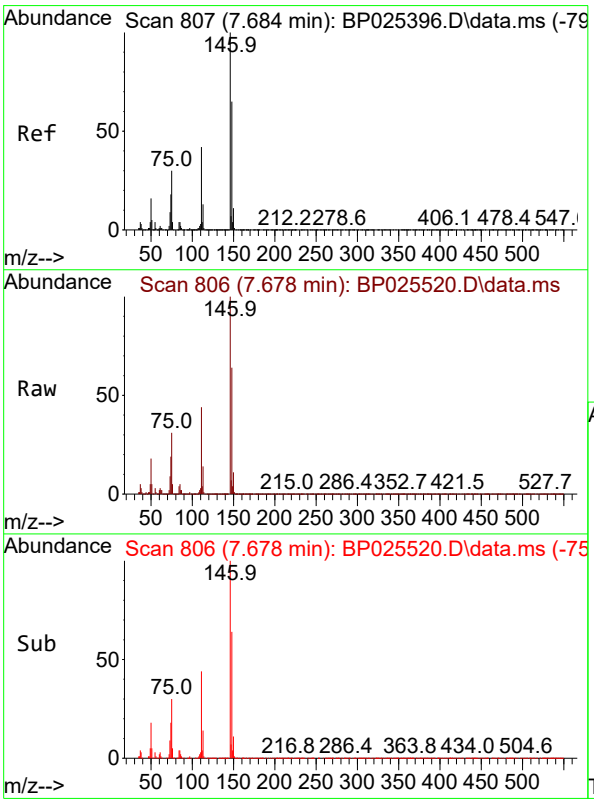
#11
bis(2-Chloroethyl)ether
Concen: 43.648 ng
RT: 7.213 min Scan# 7
Delta R.T. -0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Instrument :
BNA_P
ClientSampleId :
38M-NMS

Tgt Ion: 93 Resp: 449455

Ion	Ratio	Lower	Upper
93	100		
63	75.0	52.6	92.6
95	32.6	12.7	52.7

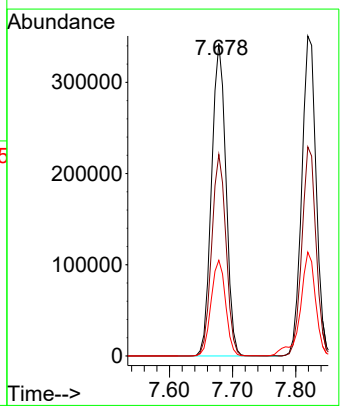


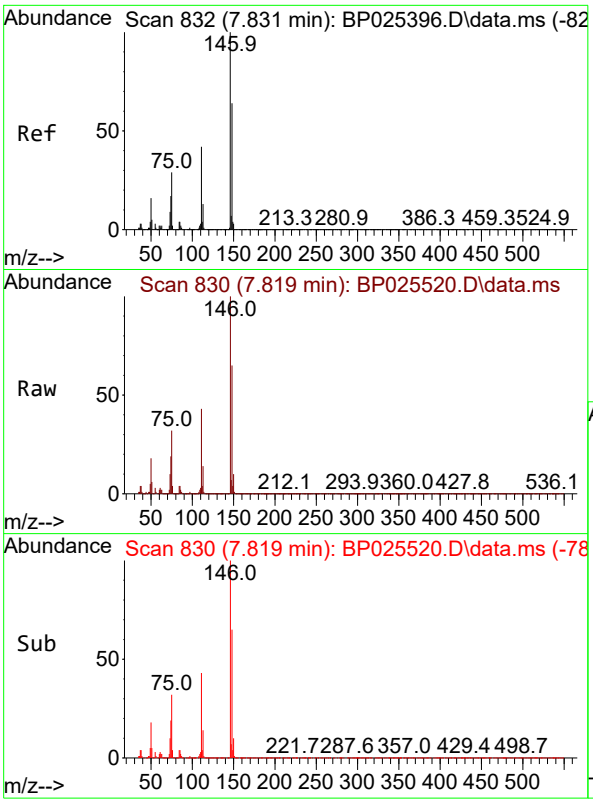


#12
1,3-Dichlorobenzene
Concen: 44.230 ng
RT: 7.678 min Scan# 806
Delta R.T. -0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:146 Resp: 540474

Ion	Ratio	Lower	Upper
146	100		
148	64.5	51.9	77.9
75	30.6	23.7	35.5



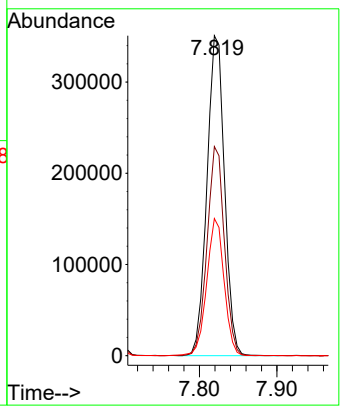


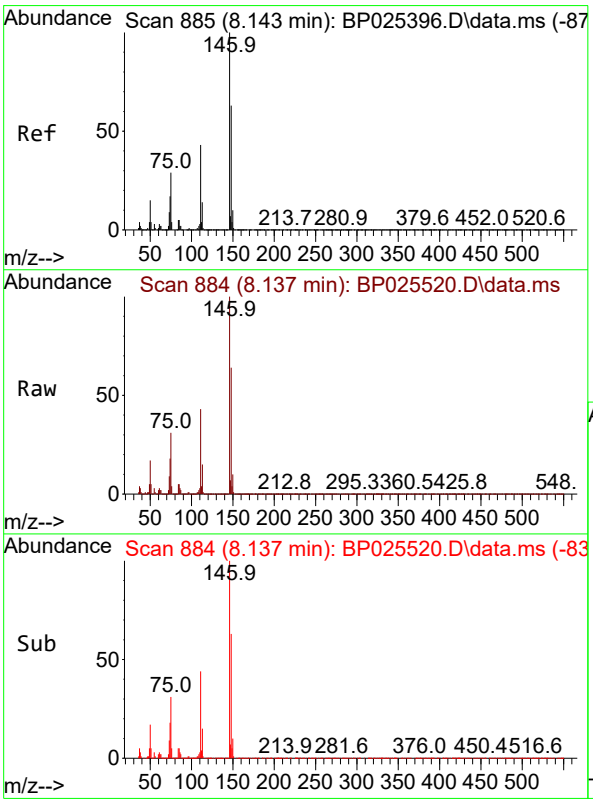
#13
1,4-Dichlorobenzene
Concen: 44.184 ng
RT: 7.819 min Scan# 8
Delta R.T. -0.012 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Instrument :
BNA_P
ClientSampleId :
38M-NMS

Tgt Ion:146 Resp: 551846

Ion	Ratio	Lower	Upper
146	100		
148	65.3	51.6	77.4
111	42.9	33.4	50.0

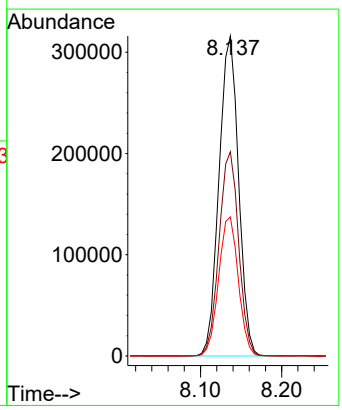


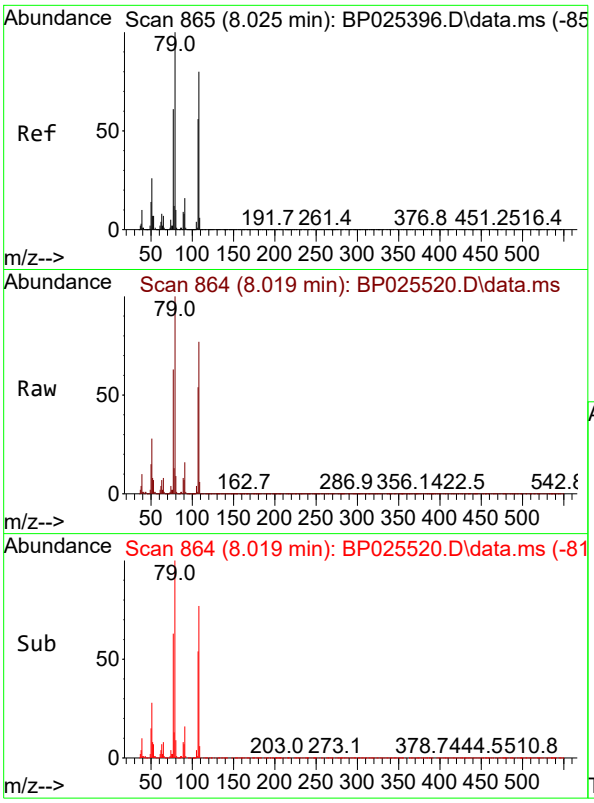


#14
1,2-Dichlorobenzene
Concen: 43.766 ng
RT: 8.137 min Scan# 884
Delta R.T. -0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:146 Resp: 529135

Ion	Ratio	Lower	Upper
146	100		
148	63.8	50.4	75.6
111	43.5	34.5	51.7



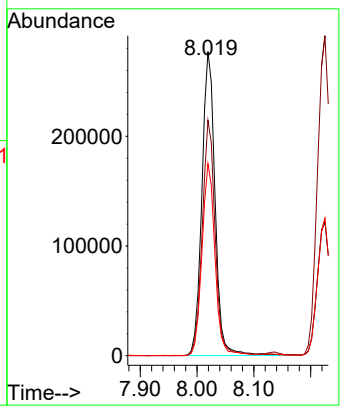


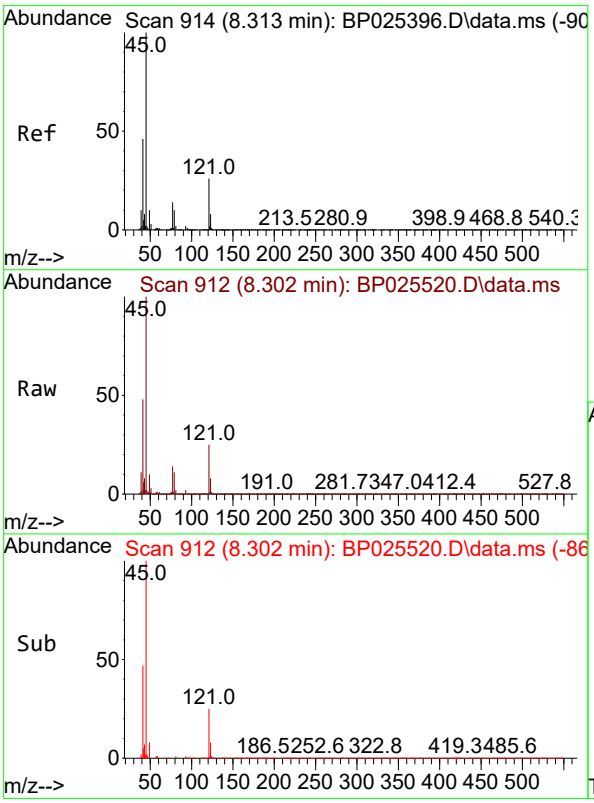
#15
Benzyl Alcohol
Concen: 44.558 ng
RT: 8.019 min Scan# 8
Delta R.T. -0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Instrument :
BNA_P
ClientSampleId :
38M-NMS

Tgt Ion: 79 Resp: 445758

Ion	Ratio	Lower	Upper
79	100		
108	77.4	63.8	95.6
77	63.1	49.0	73.4

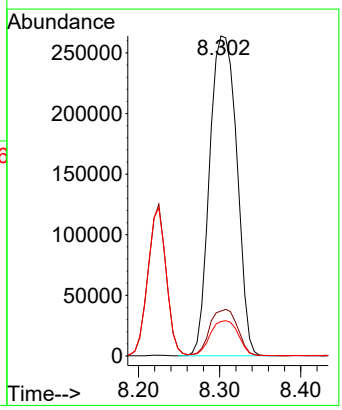


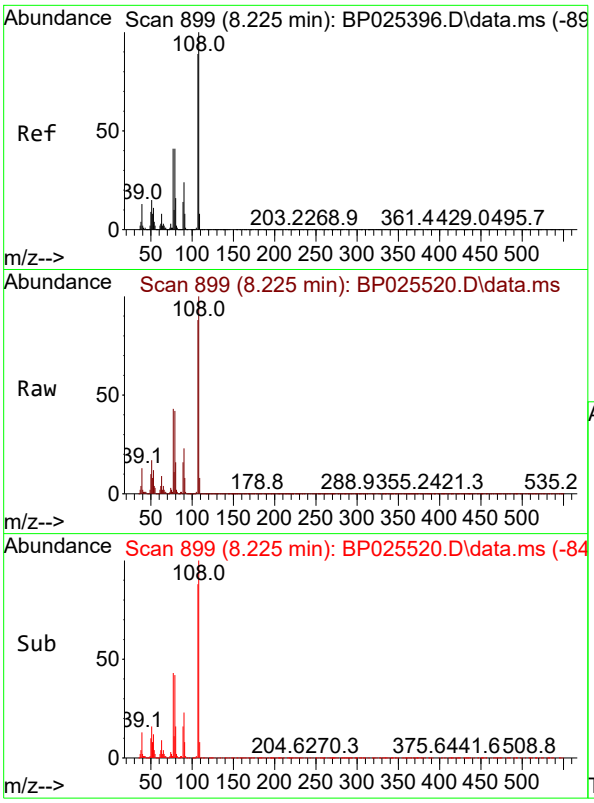


#16
2,2'-oxybis(1-Chloropropane)
Concen: 44.515 ng
RT: 8.302 min Scan# 912
Delta R.T. -0.012 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion: 45 Resp: 614047

Ion	Ratio	Lower	Upper
45	100		
77	14.0	0.0	35.3
79	10.8	0.0	31.8



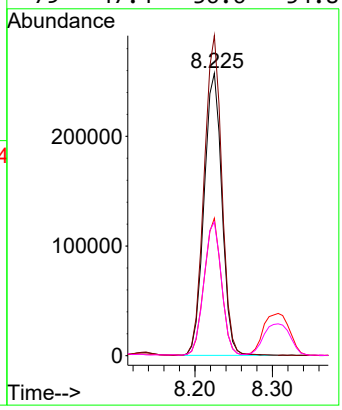


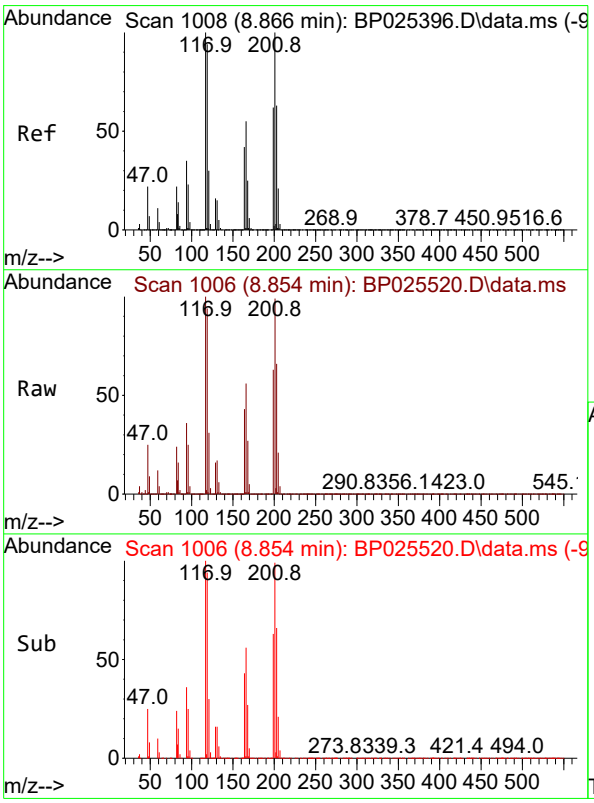
#17
2-Methylphenol
Concen: 44.779 ng
RT: 8.225 min Scan# 8
Delta R.T. -0.000 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Instrument :
BNA_P
ClientSampleId :
38M-NMS

Tgt Ion:107 Resp: 410870

Ion	Ratio	Lower	Upper
107	100		
108	113.3	89.4	134.0
77	48.7	36.3	54.5
79	47.4	36.6	54.8

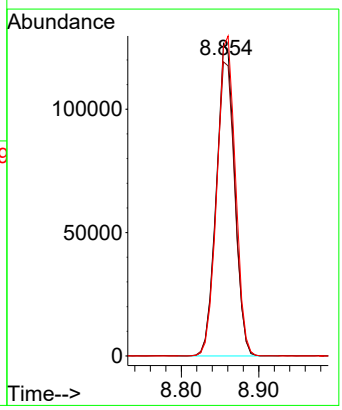


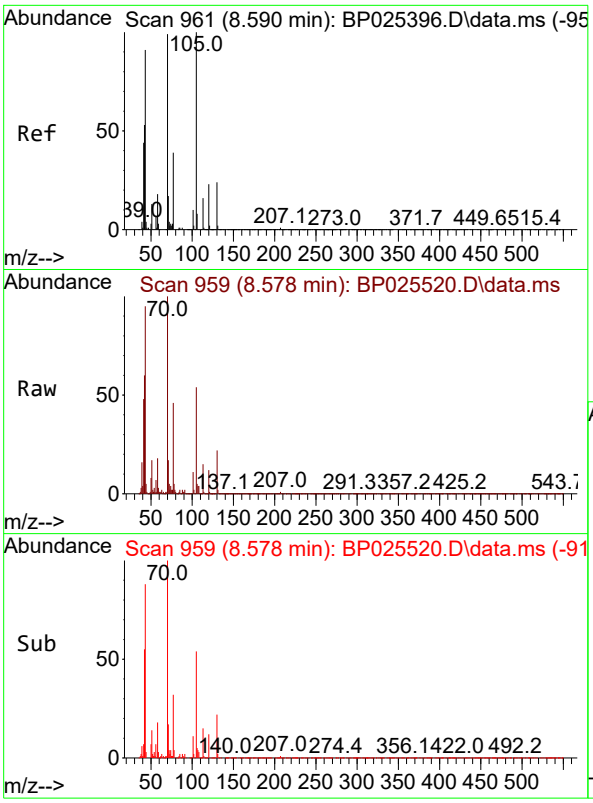


#18
Hexachloroethane
Concen: 45.254 ng
RT: 8.854 min Scan# 1006
Delta R.T. -0.012 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:117 Resp: 207815

Ion	Ratio	Lower	Upper
117	100		
119	94.2	75.1	112.7
201	99.0	80.1	120.1



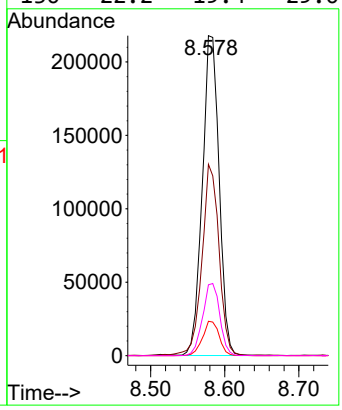


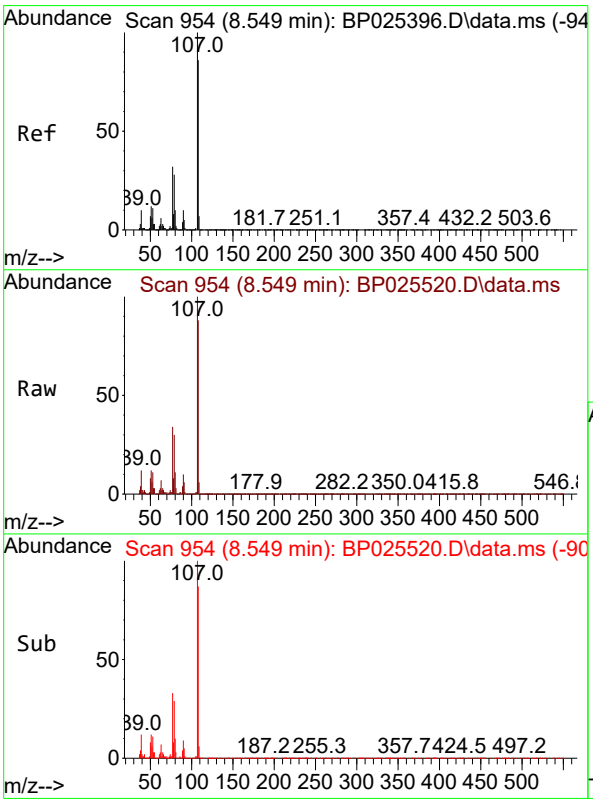
#19
n-Nitroso-di-n-propylamine
Concen: 41.102 ng
RT: 8.578 min Scan# 9
Delta R.T. -0.012 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Instrument :
BNA_P
ClientSampleId :
38M-NMS

Tgt Ion: 70 Resp: 342780

Ion	Ratio	Lower	Upper
70	100		
42	59.8	43.8	65.6
101	10.7	8.5	12.7
130	22.2	19.4	29.0

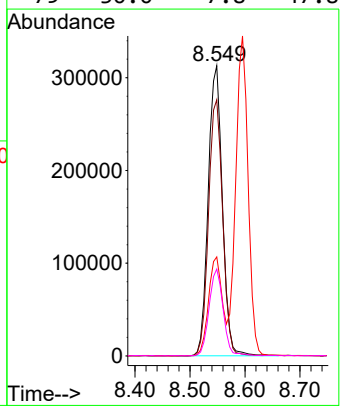


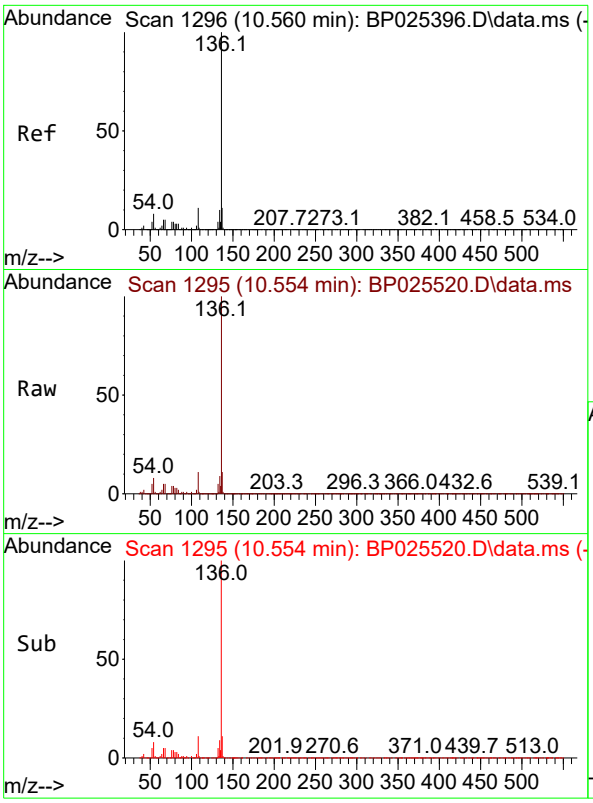


#20
3+4-Methylphenols
Concen: 44.044 ng
RT: 8.549 min Scan# 954
Delta R.T. -0.000 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:107 Resp: 560181

Ion	Ratio	Lower	Upper
107	100		
108	88.3	66.3	106.3
77	34.1	12.3	52.3
79	30.0	7.8	47.8



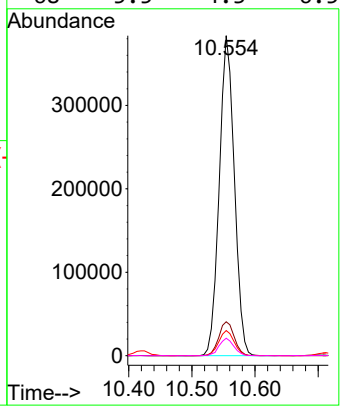


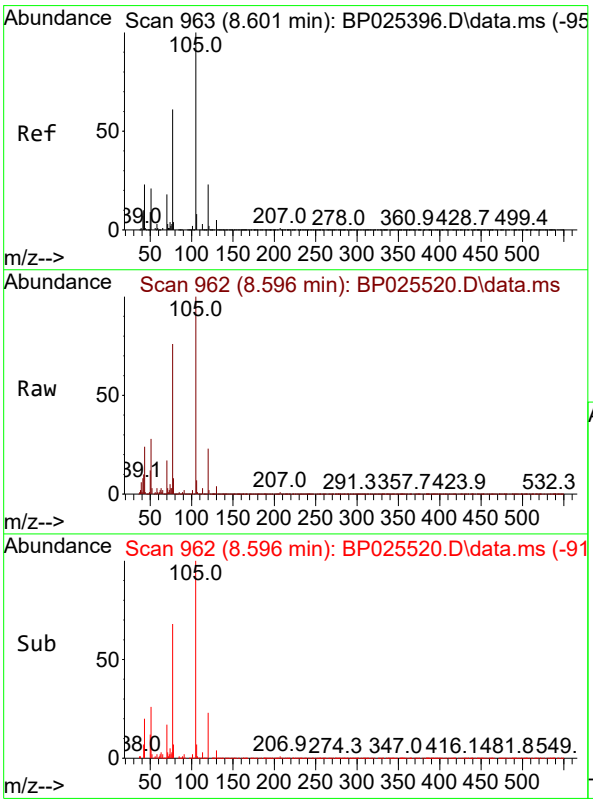
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.554 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Instrument :
BNA_P
ClientSampleId :
38M-NMS

Tgt Ion:136 Resp: 635345

Ion	Ratio	Lower	Upper
136	100		
137	10.6	9.2	13.8
54	7.8	6.0	9.0
68	5.5	4.3	6.5

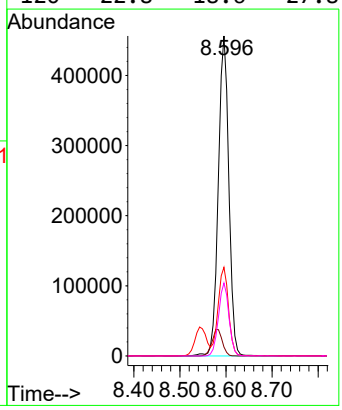


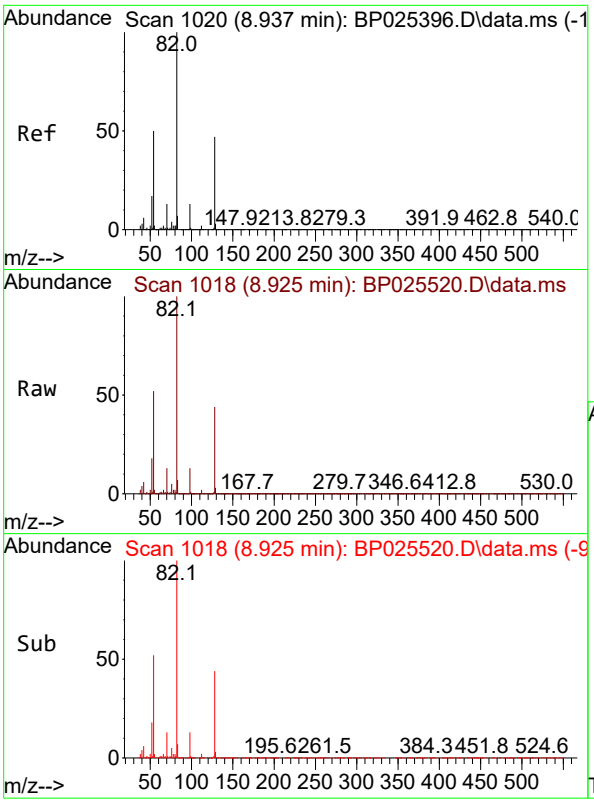


#22
Acetophenone
Concen: 45.276 ng
RT: 8.596 min Scan# 962
Delta R.T. -0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:105 Resp: 721397

Ion	Ratio	Lower	Upper
105	100		
71	2.8	2.6	4.0
51	27.7	20.6	30.8
120	22.8	18.6	27.8



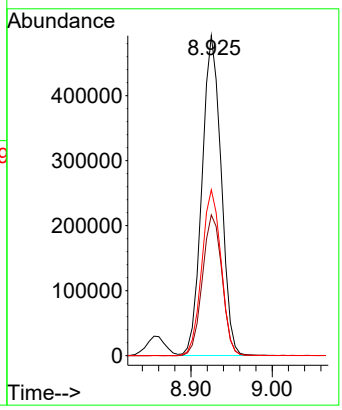


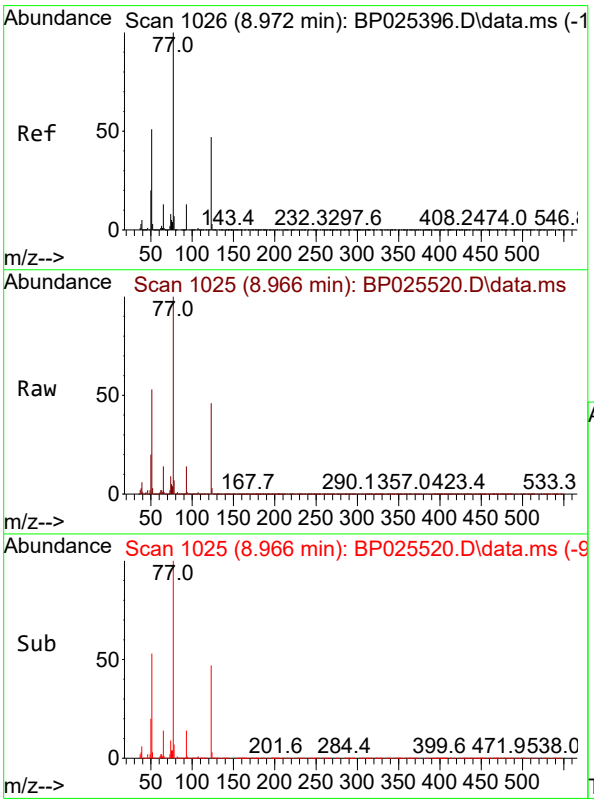
#23
Nitrobenzene-d5
Concen: 64.078 ng
RT: 8.925 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Instrument :
BNA_P
ClientSampleId :
38M-NMS

Tgt Ion: 82 Resp: 804810

Ion	Ratio	Lower	Upper
82	100		
128	44.0	37.7	56.5
54	51.9	39.8	59.6

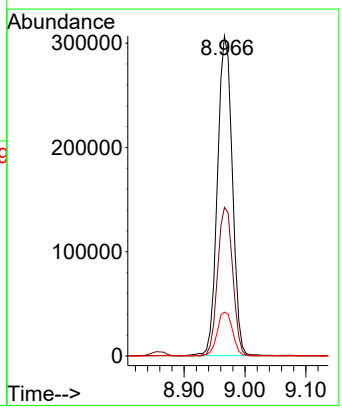


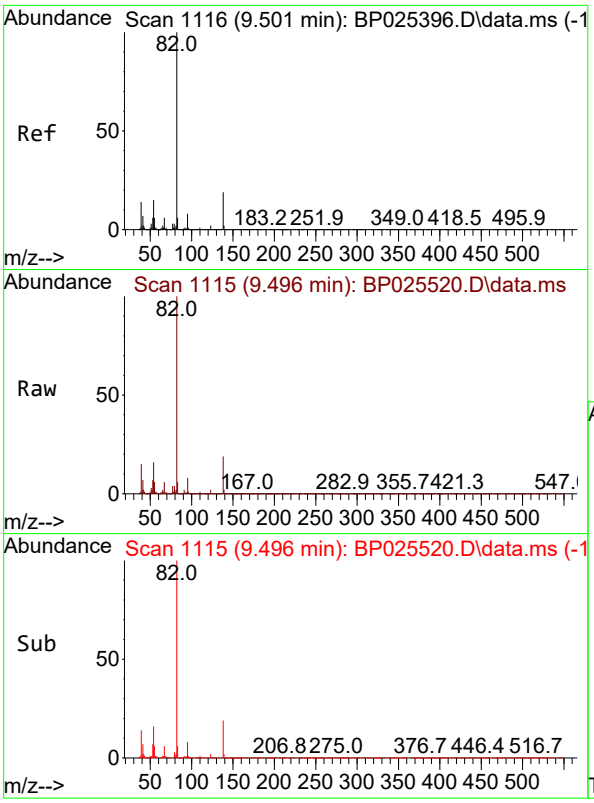


#24
Nitrobenzene
Concen: 46.231 ng
RT: 8.966 min Scan# 1025
Delta R.T. -0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion: 77 Resp: 518939

Ion	Ratio	Lower	Upper
77	100		
123	46.5	38.6	58.0
65	13.7	10.6	15.8



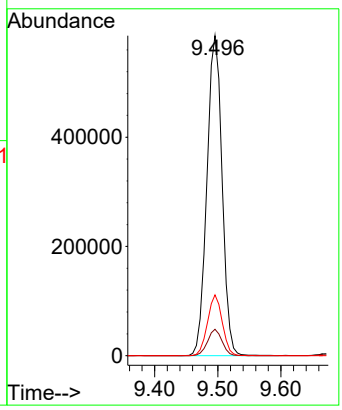


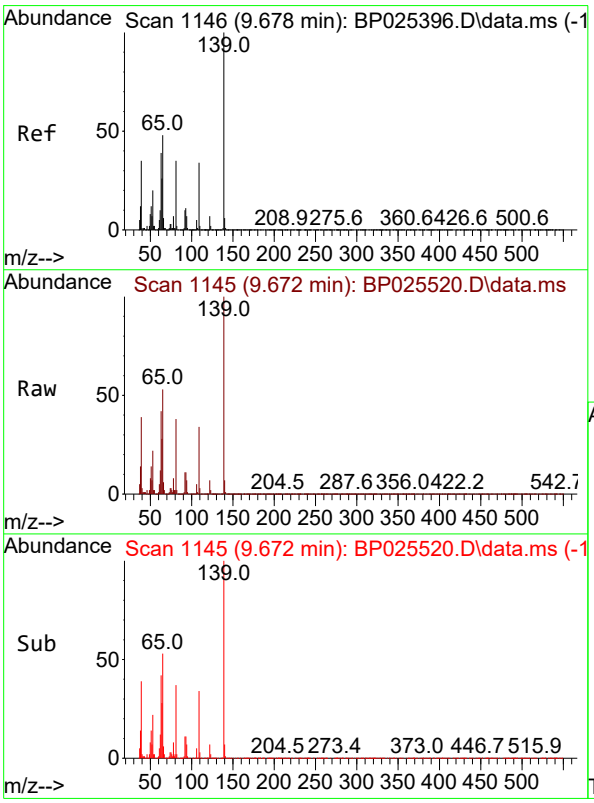
#25
Isophorone
Concen: 43.967 ng
RT: 9.496 min Scan# 11
Delta R.T. -0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Instrument :
BNA_P
ClientSampleId :
38M-NMS

Tgt Ion: 82 Resp: 977284

Ion	Ratio	Lower	Upper
82	100		
95	8.3	6.4	9.6
138	19.0	15.4	23.0

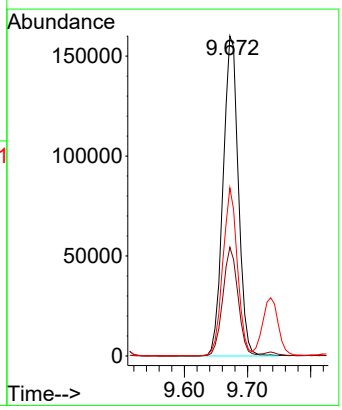


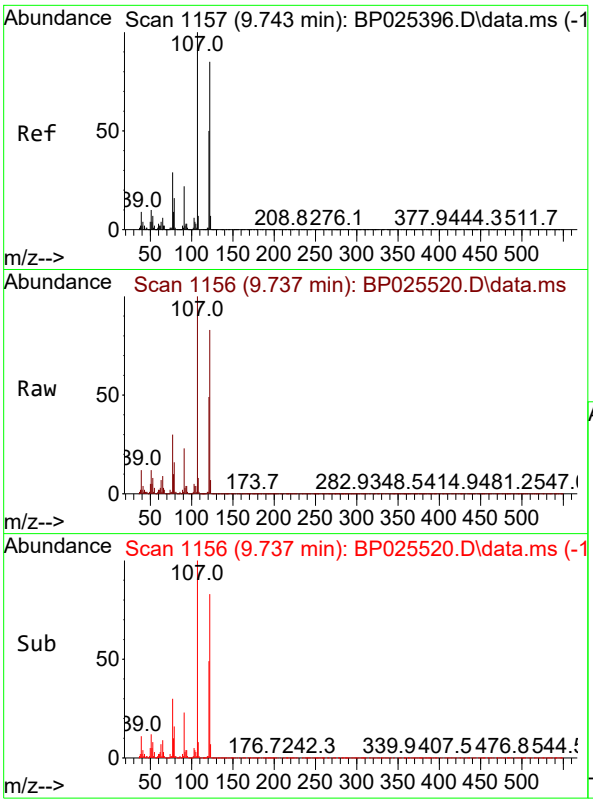


#26
2-Nitrophenol
Concen: 46.582 ng
RT: 9.672 min Scan# 1145
Delta R.T. -0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:139 Resp: 268342

Ion	Ratio	Lower	Upper
139	100		
109	33.9	26.9	40.3
65	52.6	38.3	57.5



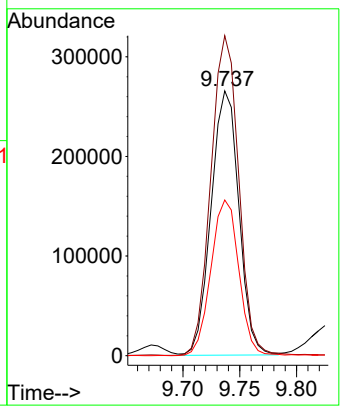


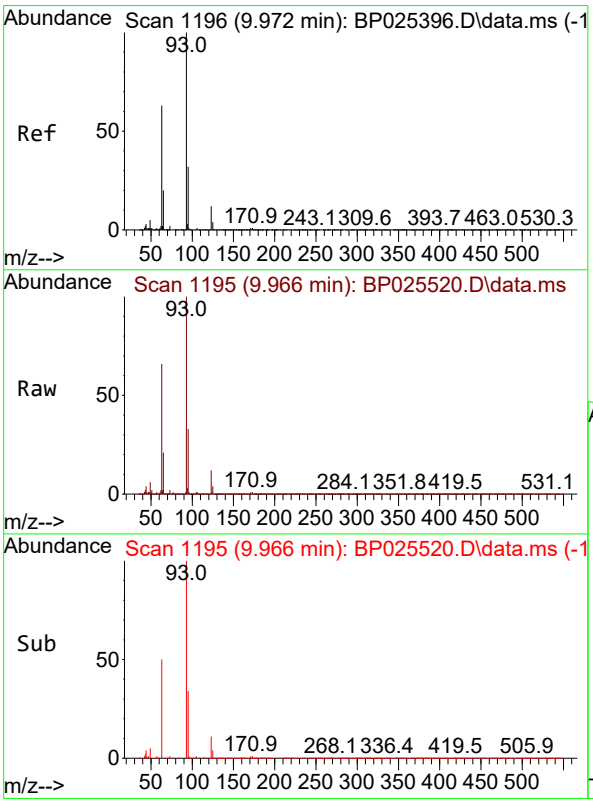
#27
2,4-Dimethylphenol
Concen: 45.537 ng
RT: 9.737 min Scan# 11
Delta R.T. -0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Instrument :
BNA_P
ClientSampleId :
38M-NMS

Tgt Ion:122 Resp: 451118

Ion	Ratio	Lower	Upper
122	100		
107	120.8	93.7	140.5
121	58.8	46.6	69.8

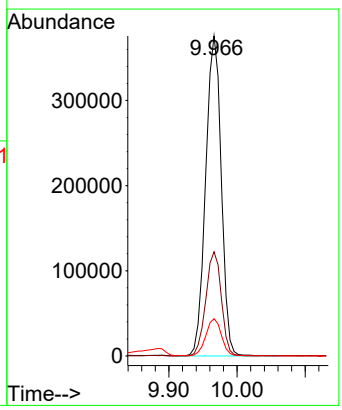


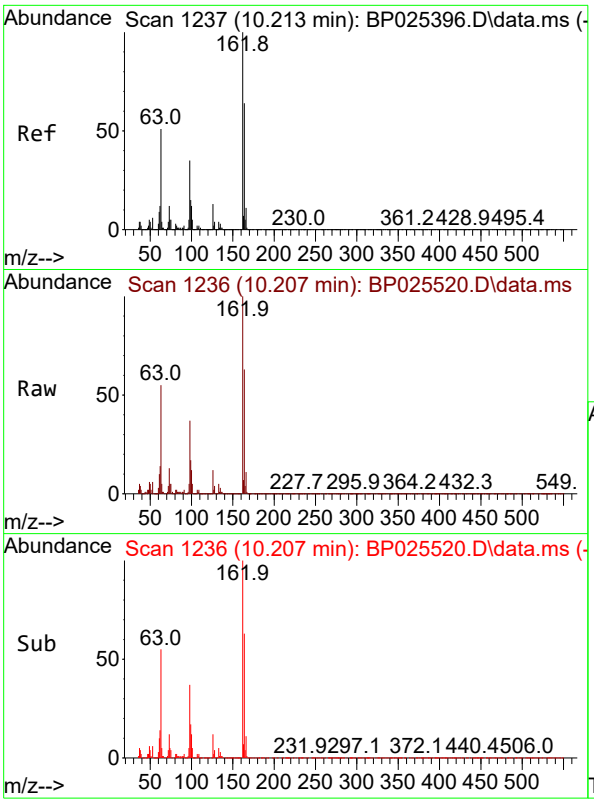


#28
bis(2-Chloroethoxy)methane
Concen: 44.529 ng
RT: 9.966 min Scan# 1195
Delta R.T. -0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion: 93 Resp: 598293

Ion	Ratio	Lower	Upper
93	100		
95	32.5	25.4	38.0
123	11.7	9.4	14.0



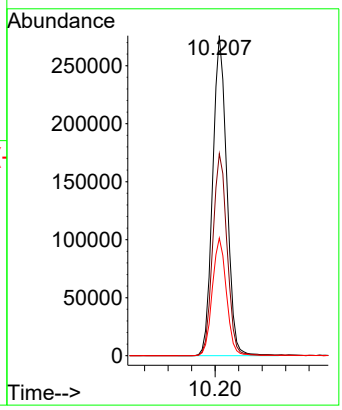


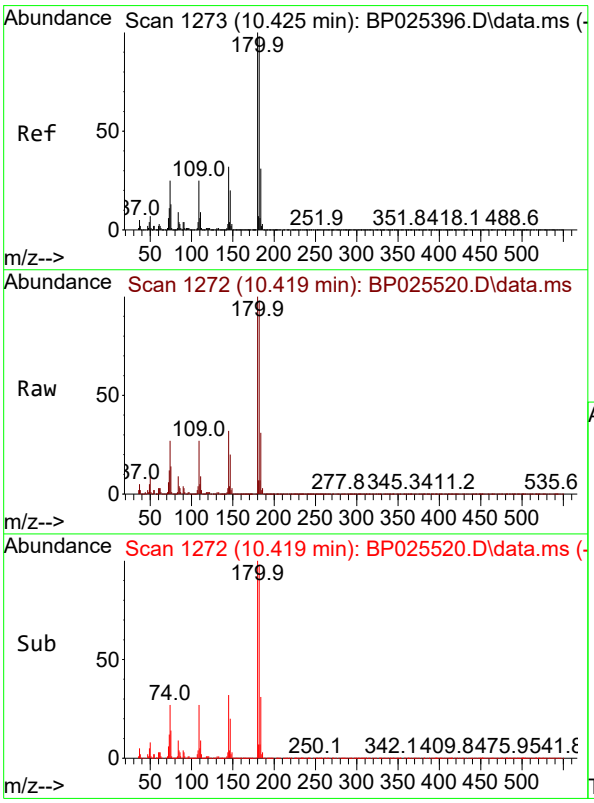
#29
2,4-Dichlorophenol
Concen: 46.875 ng
RT: 10.207 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Instrument :
BNA_P
ClientSampleId :
38M-NMS

Tgt Ion:162 Resp: 461305

Ion	Ratio	Lower	Upper
162	100		
164	63.1	44.4	84.4
98	36.7	14.9	54.9

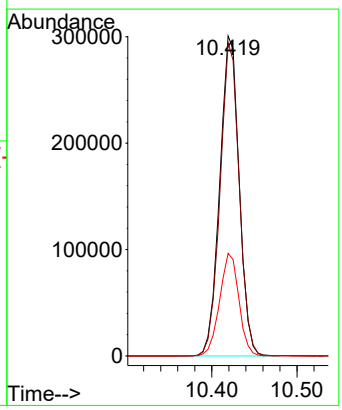


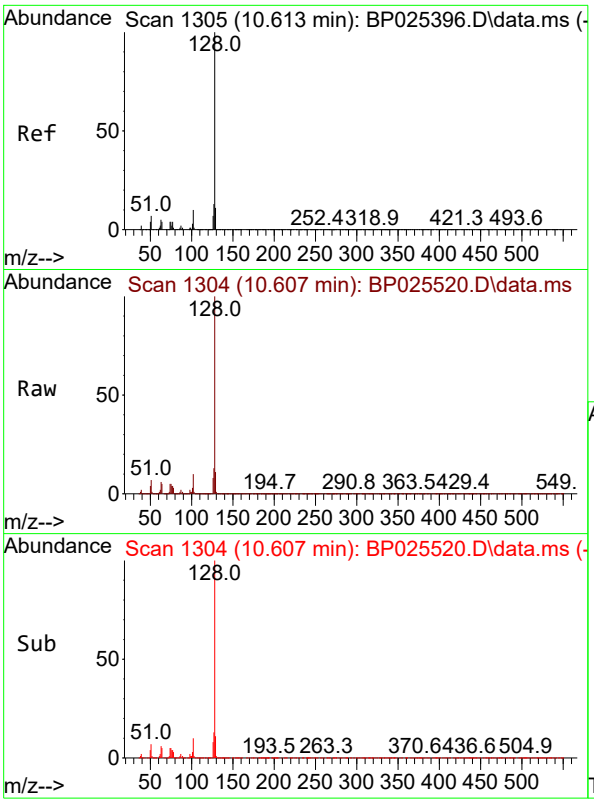


#30
1,2,4-Trichlorobenzene
Concen: 44.136 ng
RT: 10.419 min Scan# 1272
Delta R.T. -0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:180 Resp: 476140

Ion	Ratio	Lower	Upper
180	100		
182	97.8	78.0	117.0
145	32.0	25.9	38.9



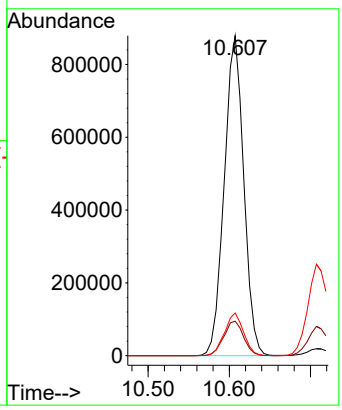


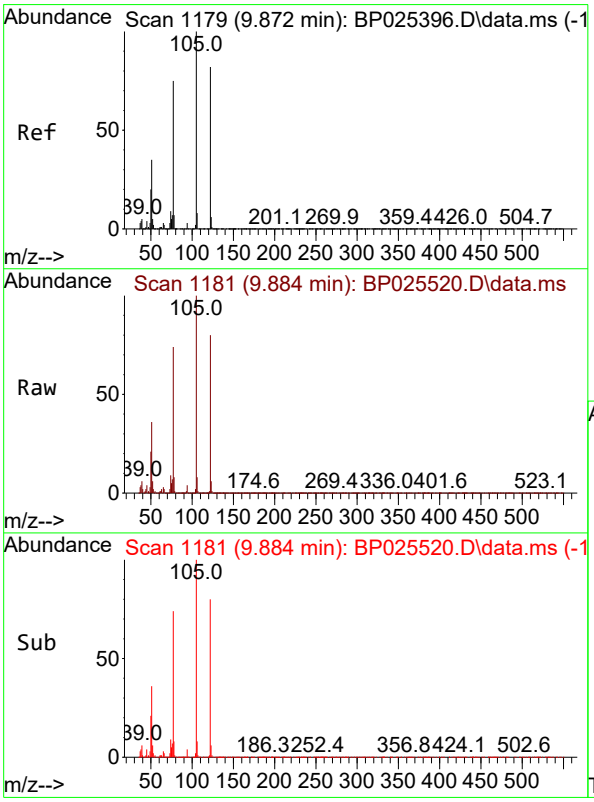
#31
Naphthalene
Concen: 44.371 ng
RT: 10.607 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Instrument :
BNA_P
ClientSampleId :
38M-NMS

Tgt Ion:128 Resp: 1465253

Ion	Ratio	Lower	Upper
128	100		
129	10.8	8.6	13.0
127	13.4	10.7	16.1

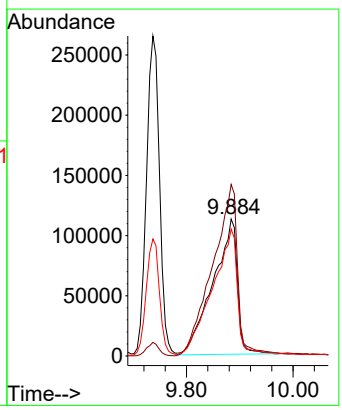


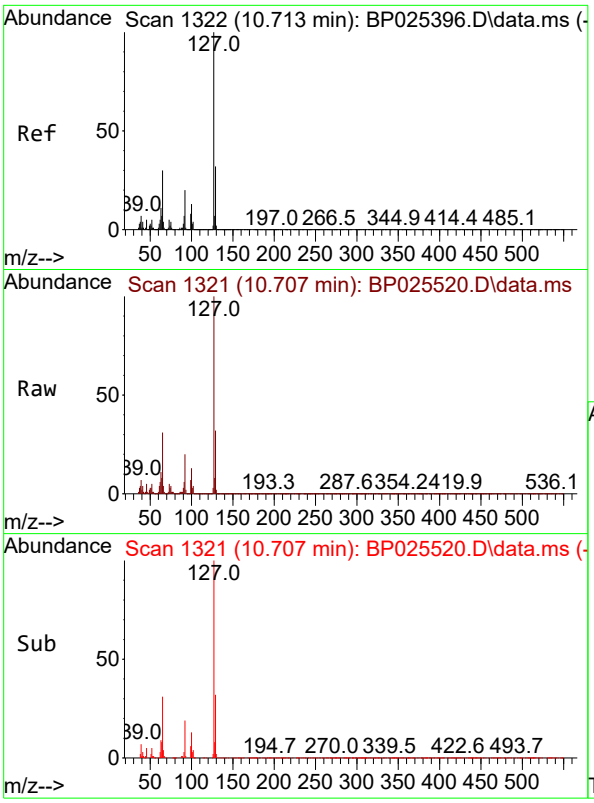


#32
Benzoic acid
Concen: 48.944 ng
RT: 9.884 min Scan# 1181
Delta R.T. 0.012 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:122 Resp: 357969

Ion	Ratio	Lower	Upper
122	100		
105	125.3	100.6	140.6
77	92.7	71.5	111.5



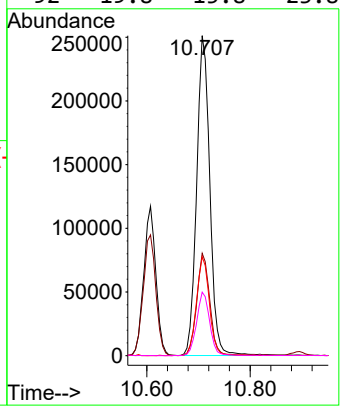


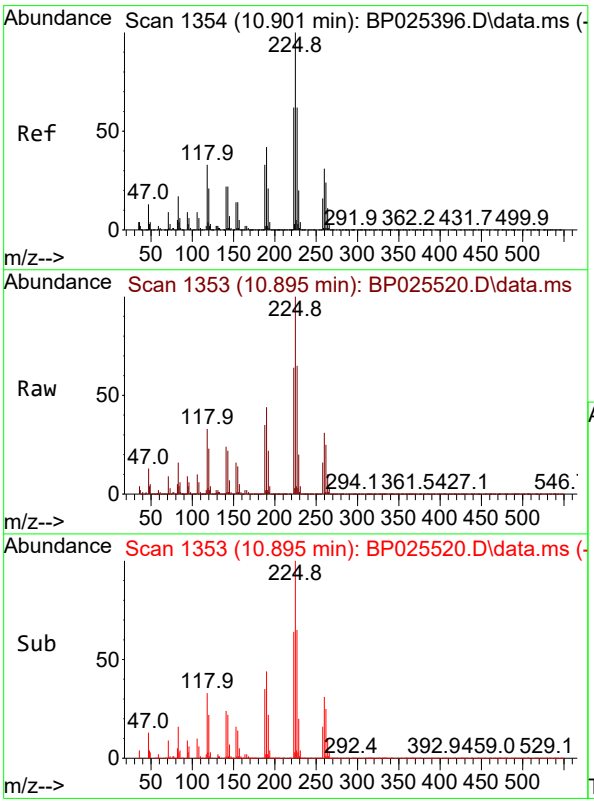
#33
4-Chloroaniline
Concen: 30.500 ng
RT: 10.707 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Instrument :
BNA_P
ClientSampleId :
38M-NMS

Tgt Ion:127 Resp: 444888

Ion	Ratio	Lower	Upper
127	100		
129	32.0	25.4	38.2
65	30.9	23.8	35.6
92	19.8	15.8	23.8

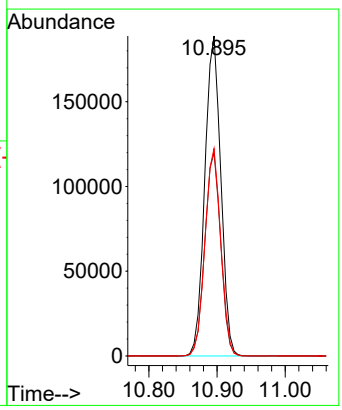


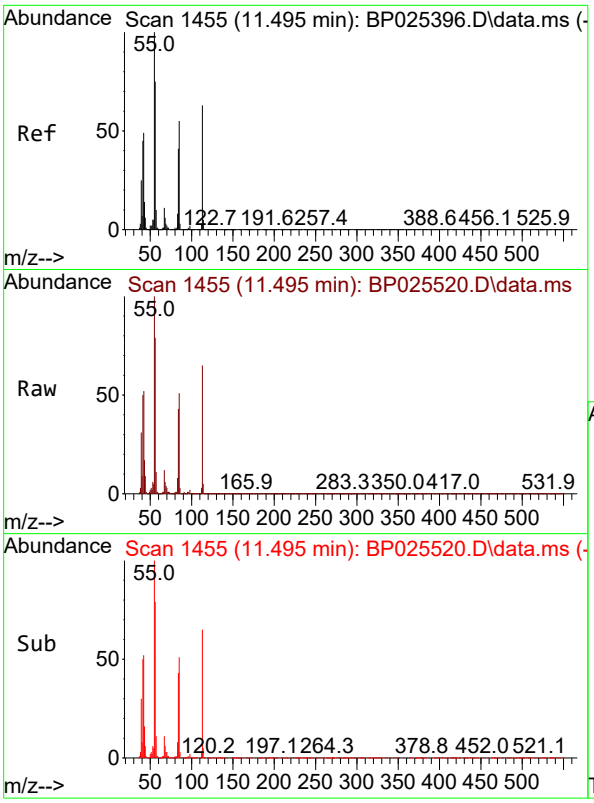


#34
Hexachlorobutadiene
Concen: 45.819 ng
RT: 10.895 min Scan# 1353
Delta R.T. -0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:225 Resp: 307838

Ion	Ratio	Lower	Upper
225	100		
223	63.6	50.0	75.0
227	64.8	49.7	74.5



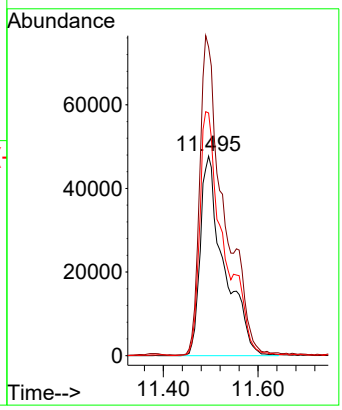


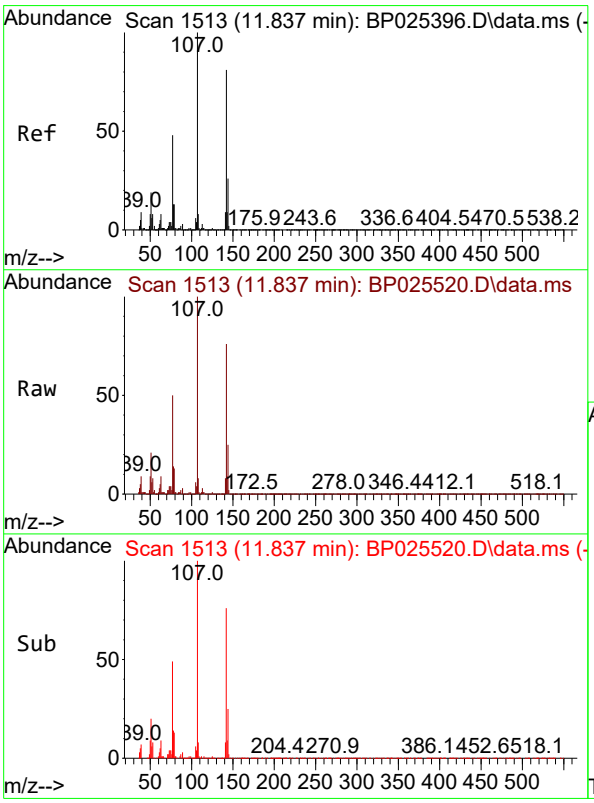
#35
Caprolactam
Concen: 46.140 ng
RT: 11.495 min Scan# 14
Delta R.T. -0.000 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Instrument :
BNA_P
ClientSampleId :
38M-NMS

Tgt Ion:113 Resp: 166502

Ion	Ratio	Lower	Upper
113	100		
55	154.7	140.0	180.0
56	121.7	100.0	140.0

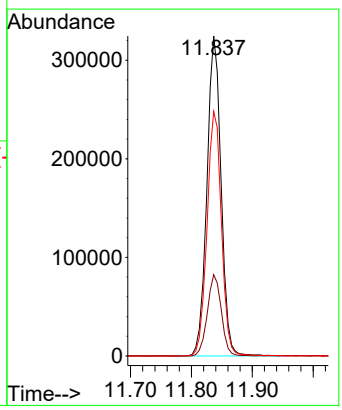


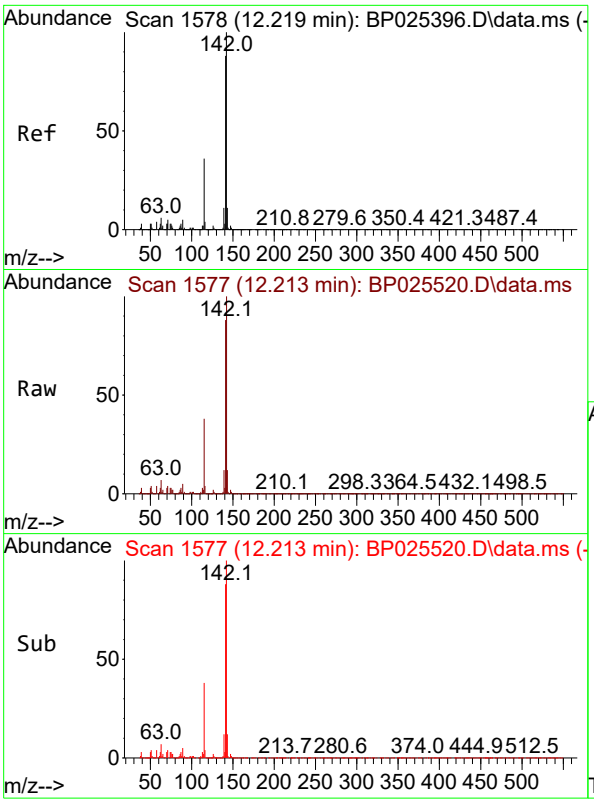


#36
4-Chloro-3-methylphenol
Concen: 46.451 ng
RT: 11.837 min Scan# 1513
Delta R.T. -0.000 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:107 Resp: 524543

Ion	Ratio	Lower	Upper
107	100		
144	25.4	21.0	31.4
142	76.4	64.6	97.0



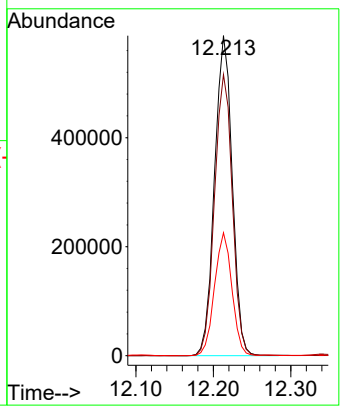


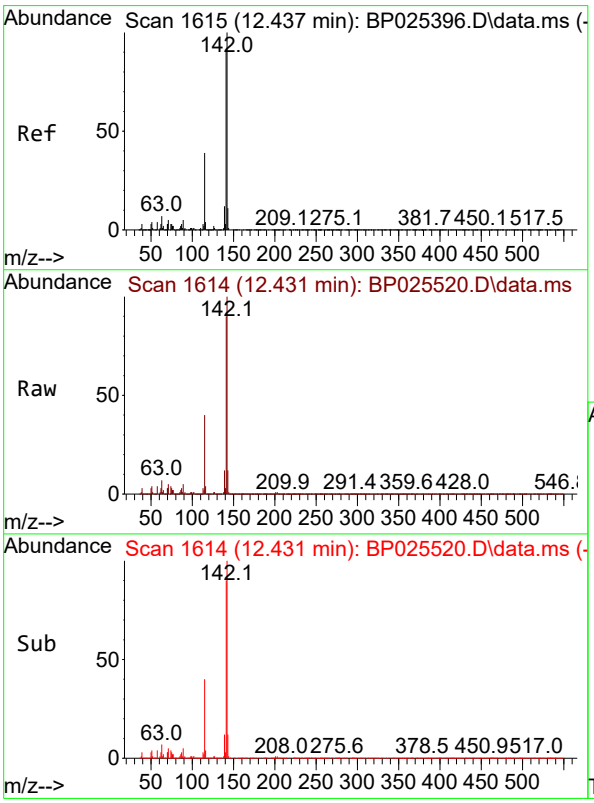
#37
2-Methylnaphthalene
Concen: 43.326 ng
RT: 12.213 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Instrument :
BNA_P
ClientSampleId :
38M-NMS

Tgt Ion:142 Resp: 931072

Ion	Ratio	Lower	Upper
142	100		
141	87.9	70.3	105.5
115	38.4	28.9	43.3

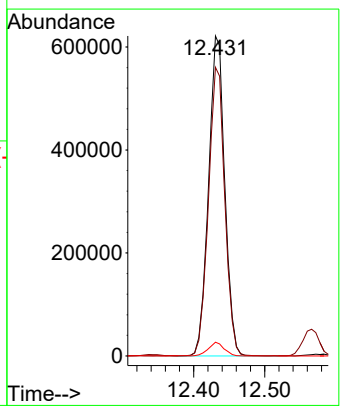


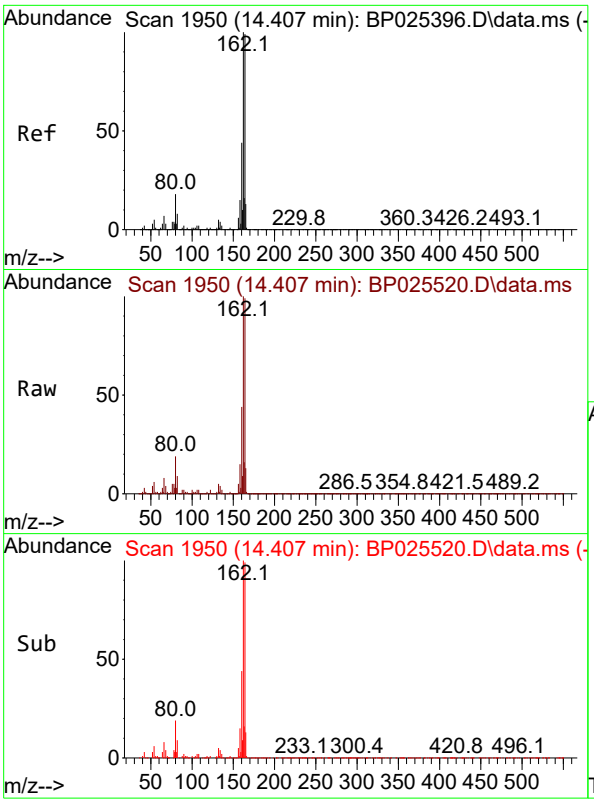


#38
1-Methylnaphthalene
Concen: 42.991 ng
RT: 12.431 min Scan# 1614
Delta R.T. -0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:142 Resp: 982511

Ion	Ratio	Lower	Upper
142	100		
141	90.2	73.1	109.7
116	4.3	3.2	4.8



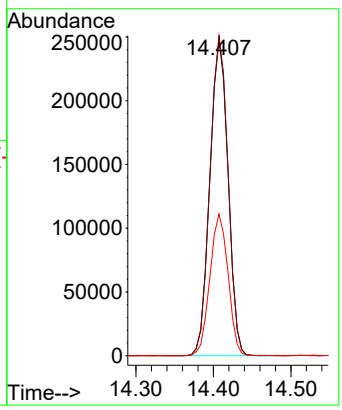


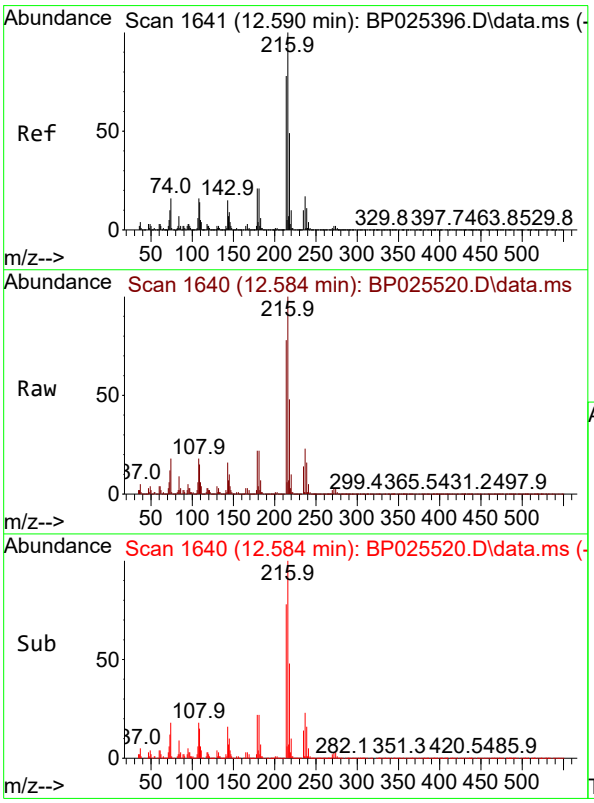
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.407 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Instrument :
BNA_P
ClientSampleId :
38M-NMS

Tgt Ion:164 Resp: 403432

Ion	Ratio	Lower	Upper
164	100		
162	101.3	81.0	121.6
160	44.8	35.4	53.2

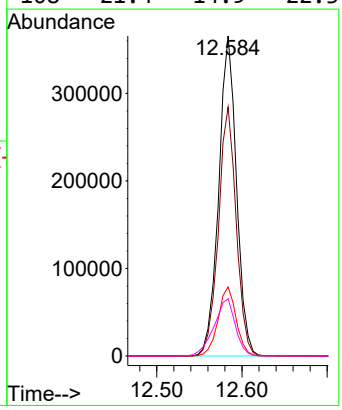


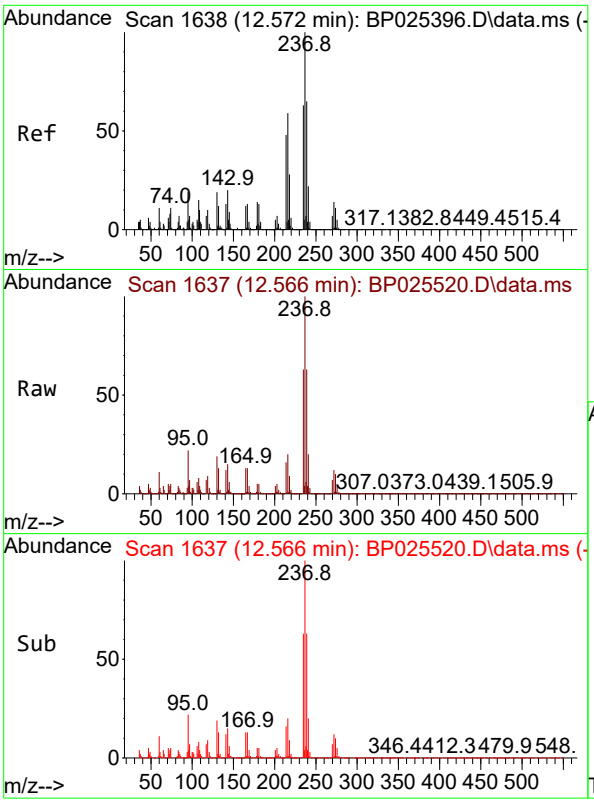


#40
1,2,4,5-Tetrachlorobenzene
Concen: 45.440 ng
RT: 12.584 min Scan# 1640
Delta R.T. -0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:216 Resp: 529445

Ion	Ratio	Lower	Upper
216	100		
214	77.8	63.0	94.4
179	22.0	17.1	25.7
108	21.4	14.9	22.3



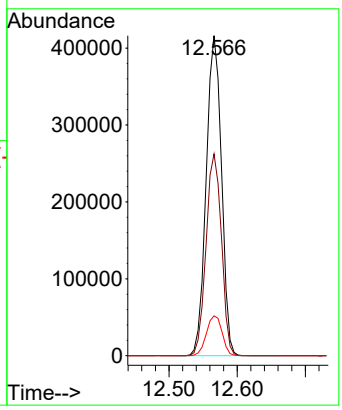


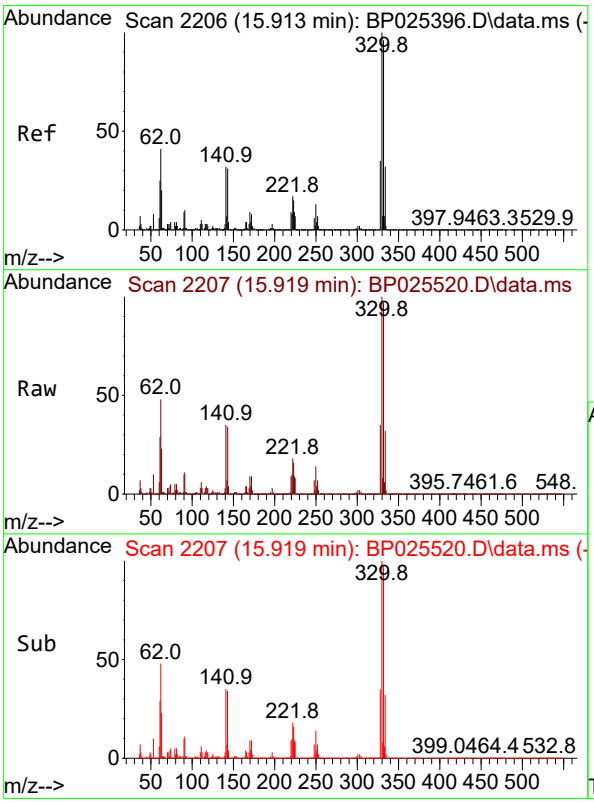
#41
Hexachlorocyclopentadiene
Concen: 92.264 ng
RT: 12.566 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Instrument :
BNA_P
ClientSampleId :
38M-NMS

Tgt Ion:237 Resp: 649355

Ion	Ratio	Lower	Upper
237	100		
235	63.0	42.7	82.7
272	12.4	0.0	34.0

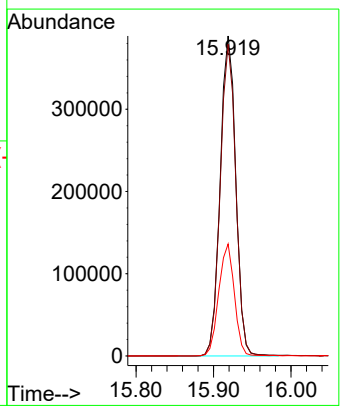


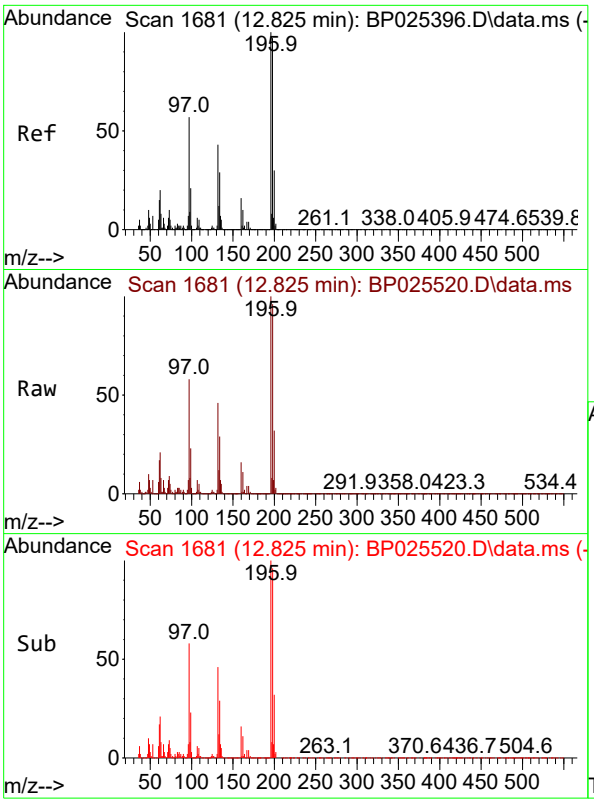


#42
2,4,6-Tribromophenol
Concen: 100.145 ng
RT: 15.919 min Scan# 2207
Delta R.T. 0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:330 Resp: 543808

Ion	Ratio	Lower	Upper
330	100		
332	97.3	77.3	115.9
141	35.2	26.6	39.8



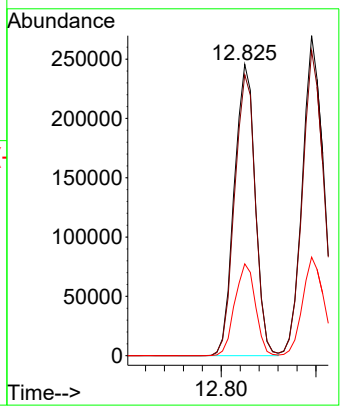


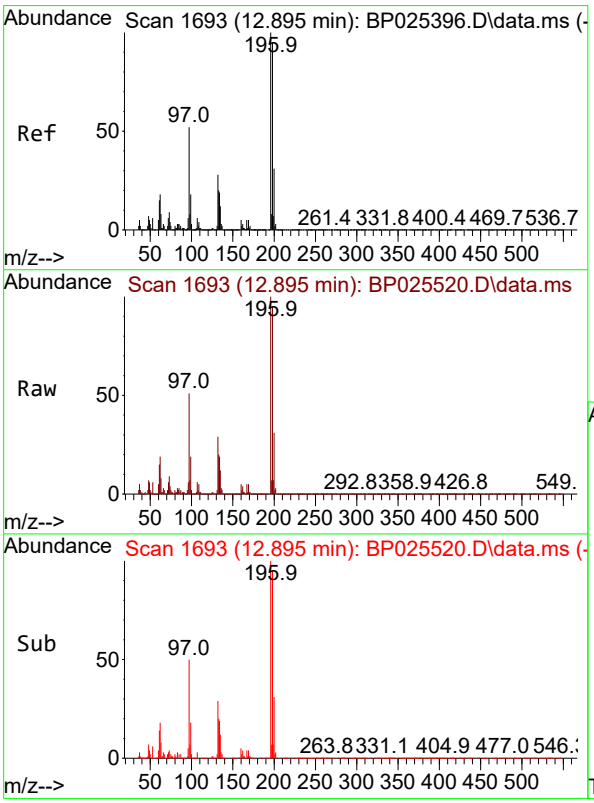
#43
2,4,6-Trichlorophenol
Concen: 47.848 ng
RT: 12.825 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Instrument :
BNA_P
ClientSampleId :
38M-NMS

Tgt Ion:196 Resp: 376373

Ion	Ratio	Lower	Upper
196	100		
198	96.4	77.2	115.8
200	31.5	23.9	35.9

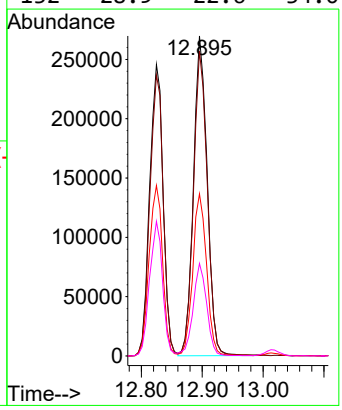


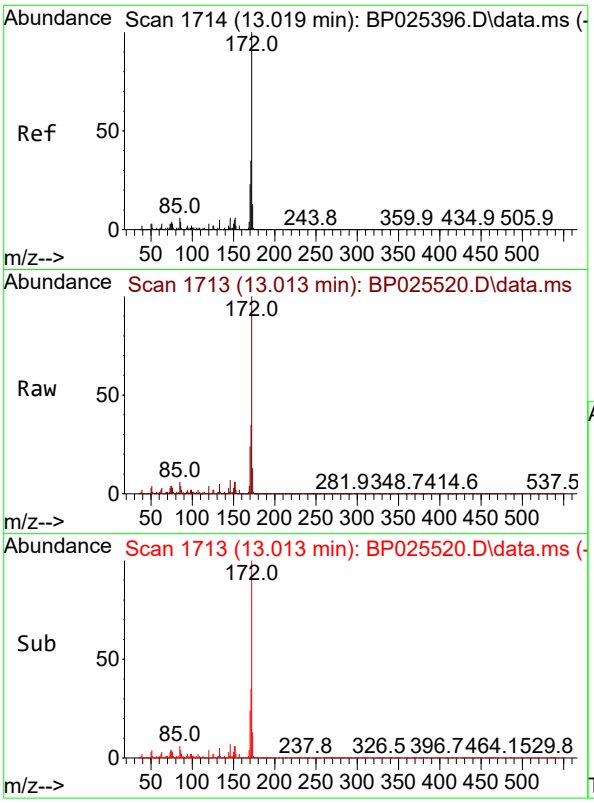


#44
2,4,5-Trichlorophenol
Concen: 49.047 ng
RT: 12.895 min Scan# 1693
Delta R.T. -0.000 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:196 Resp: 422835

Ion	Ratio	Lower	Upper
196	100		
198	95.3	76.2	114.2
97	50.7	41.2	61.8
132	28.9	22.6	34.0



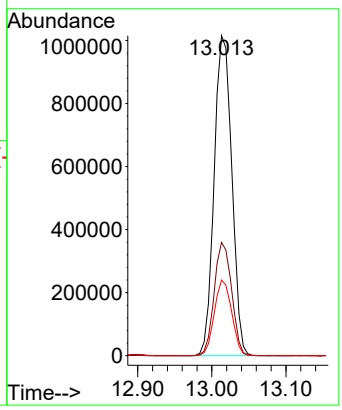


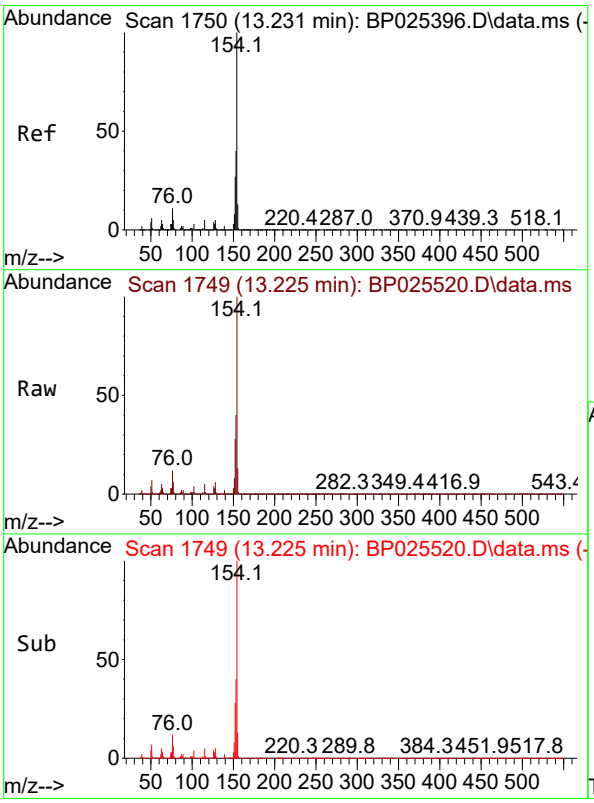
#45
2-Fluorobiphenyl
Concen: 56.883 ng
RT: 13.013 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Instrument :
BNA_P
ClientSampleId :
38M-NMS

Tgt Ion:172 Resp: 1679128

Ion	Ratio	Lower	Upper
172	100		
171	35.4	28.1	42.1
170	23.6	18.6	28.0

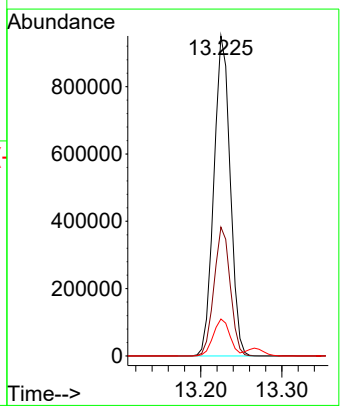


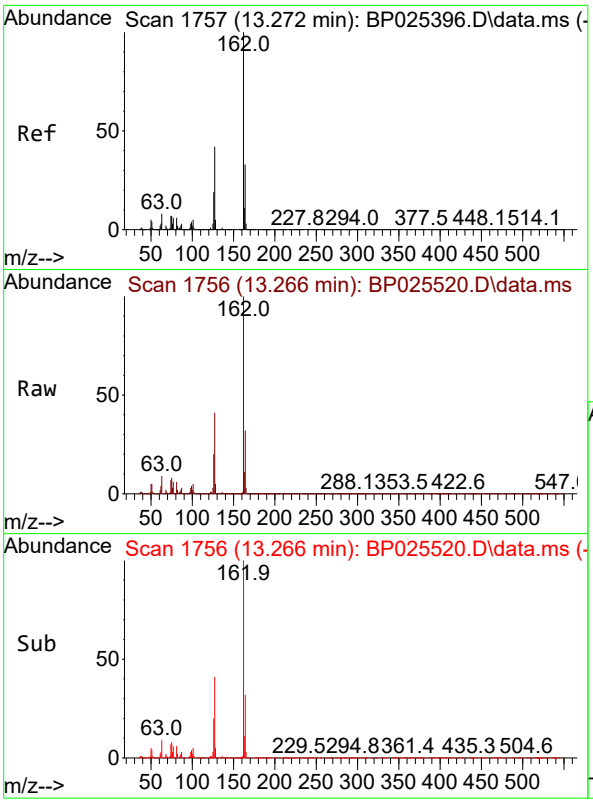


#46
1,1'-Biphenyl
Concen: 45.403 ng
RT: 13.225 min Scan# 1749
Delta R.T. -0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:154 Resp: 1330277

Ion	Ratio	Lower	Upper
154	100		
153	40.2	19.5	59.5
76	11.6	0.0	31.1



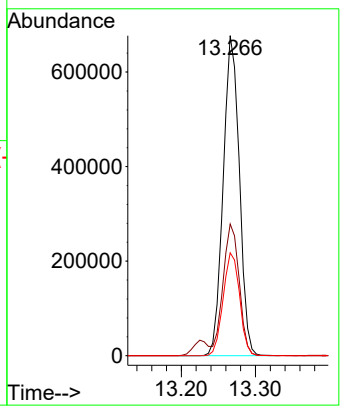


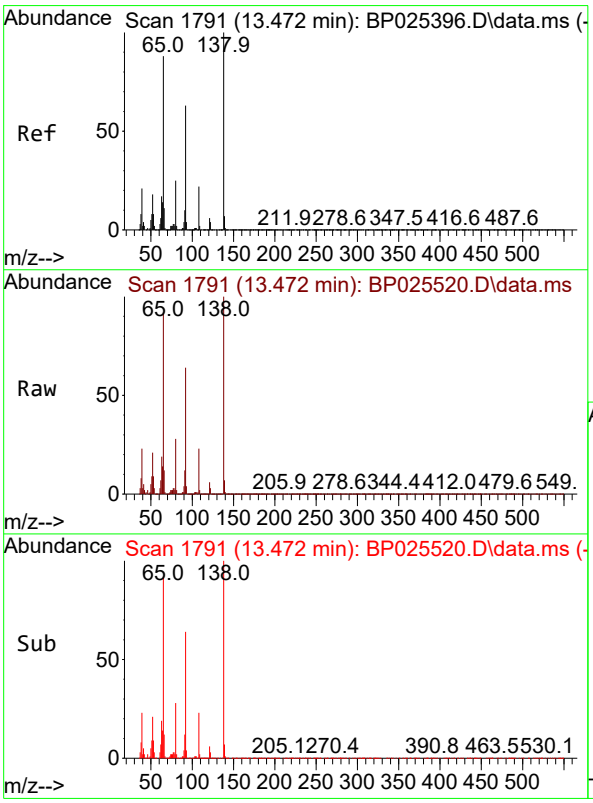
#47
2-Chloronaphthalene
Concen: 44.881 ng
RT: 13.266 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Instrument :
BNA_P
ClientSampleId :
38M-NMS

Tgt Ion:162 Resp: 1023704

Ion	Ratio	Lower	Upper
162	100		
127	41.2	33.4	50.2
164	32.2	26.2	39.2

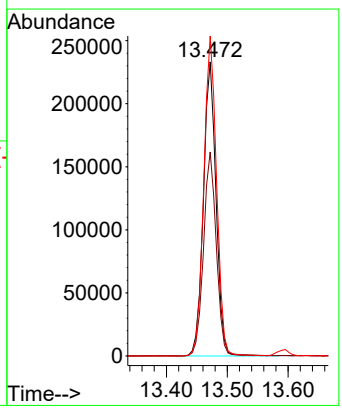


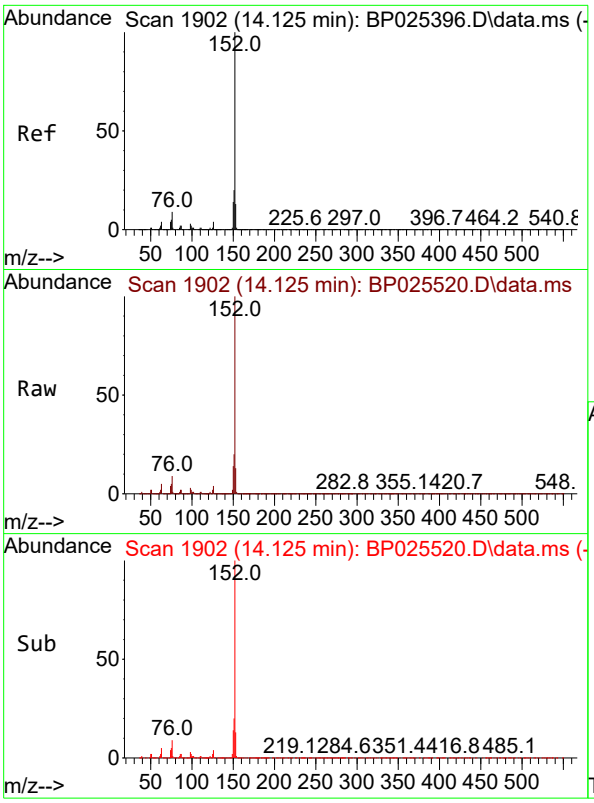


#48
2-Nitroaniline
Concen: 50.668 ng
RT: 13.472 min Scan# 1791
Delta R.T. -0.000 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion: 65 Resp: 336748

Ion	Ratio	Lower	Upper
65	100		
92	69.4	57.6	86.4
138	108.8	91.0	136.6



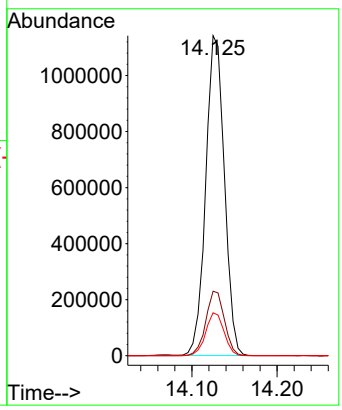


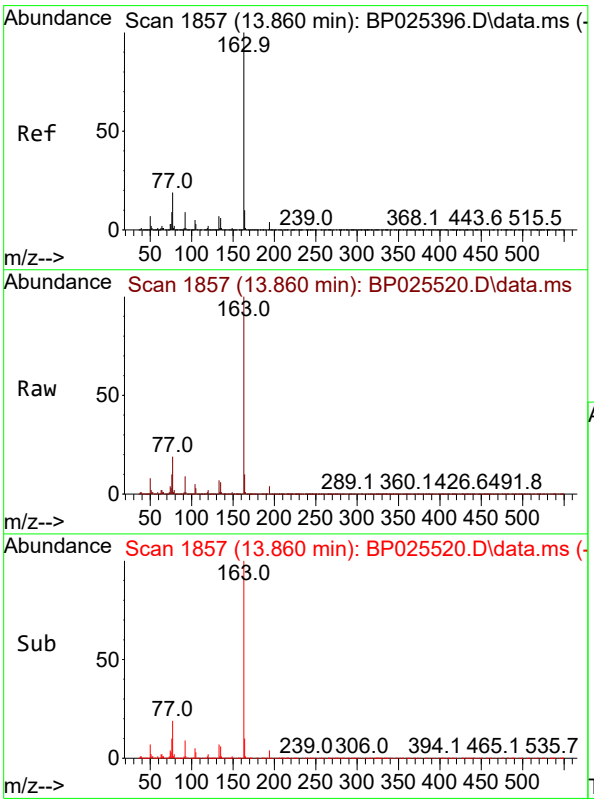
#49
Acenaphthylene
Concen: 46.038 ng
RT: 14.125 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Instrument :
BNA_P
ClientSampleId :
38M-NMS

Tgt Ion:152 Resp: 1737611

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.0	24.0
153	13.4	10.6	15.8

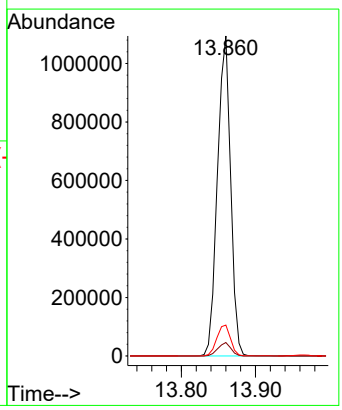


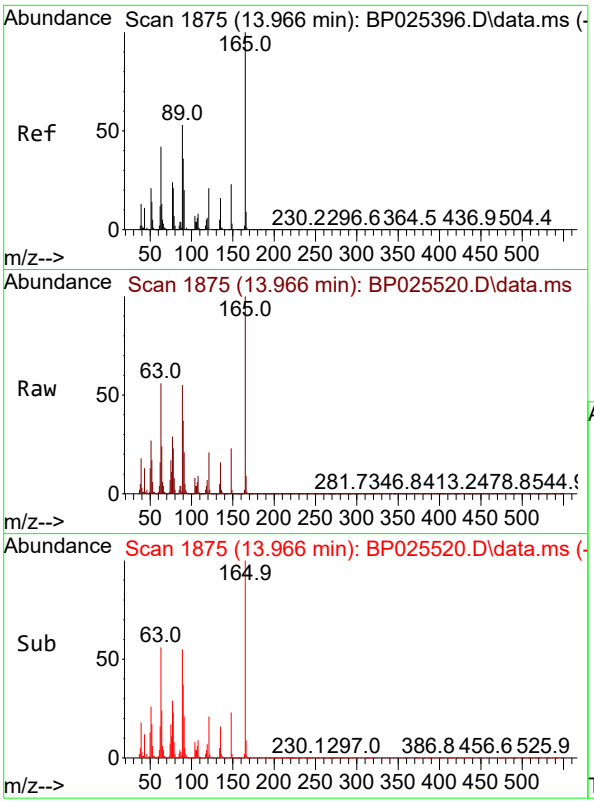


#50
Dimethylphthalate
Concen: 45.729 ng
RT: 13.860 min Scan# 1857
Delta R.T. -0.000 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:163 Resp: 1350968

Ion	Ratio	Lower	Upper
163	100		
194	4.2	3.4	5.0
164	9.7	7.9	11.9



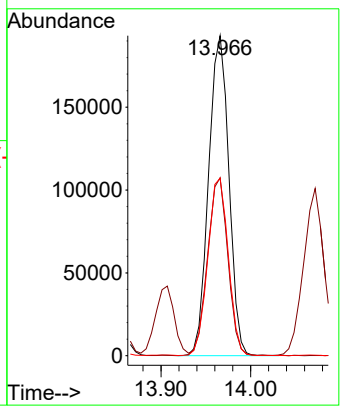


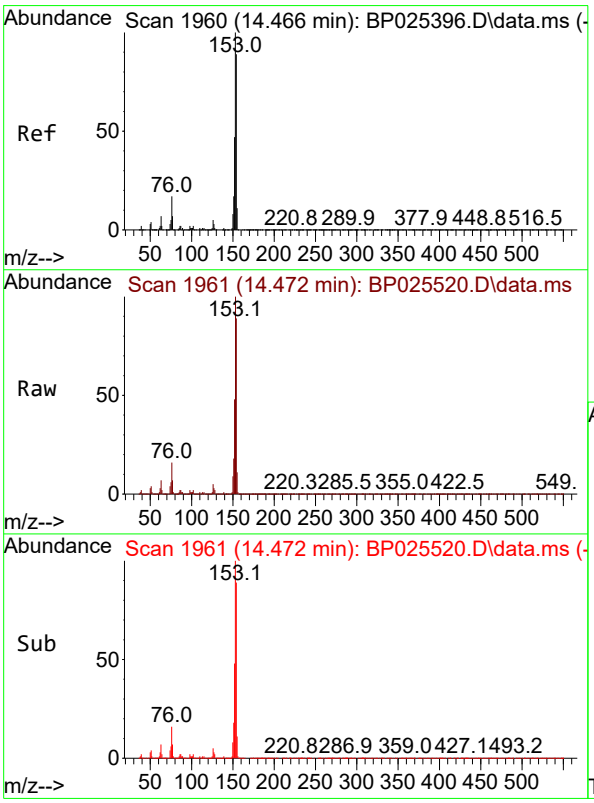
#51
2,6-Dinitrotoluene
Concen: 48.690 ng
RT: 13.966 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Instrument :
BNA_P
ClientSampleId :
38M-NMS

Tgt Ion:165 Resp: 303179

Ion	Ratio	Lower	Upper
165	100		
63	55.6	40.9	61.3
89	55.5	42.1	63.1

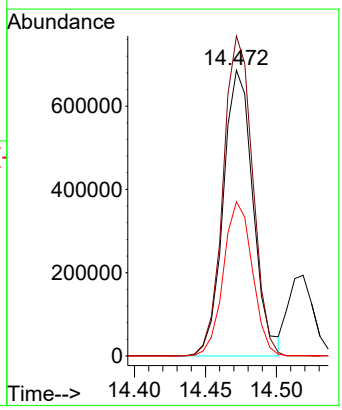


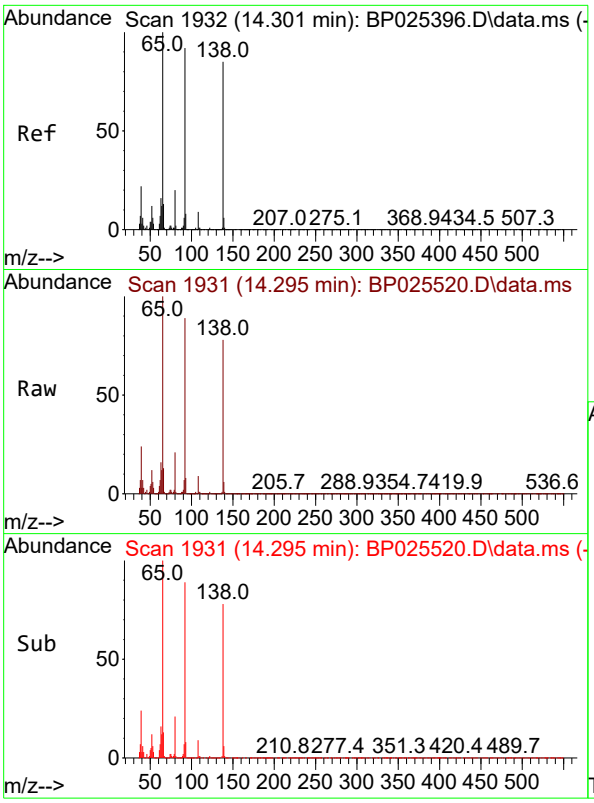


#52
Acenaphthene
Concen: 45.154 ng
RT: 14.472 min Scan# 1961
Delta R.T. 0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:154 Resp: 1000372

Ion	Ratio	Lower	Upper
154	100		
153	111.9	90.2	135.2
152	54.0	42.1	63.1



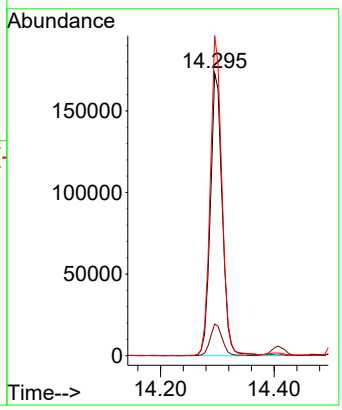


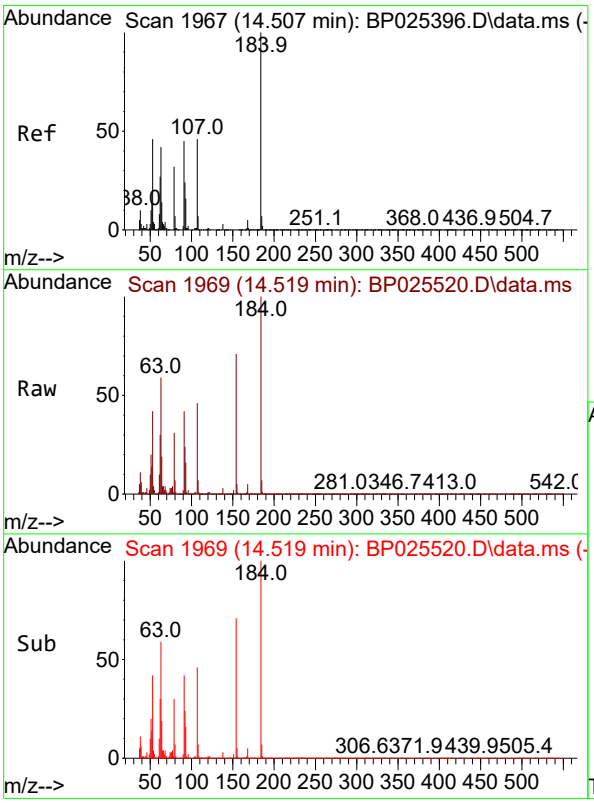
#53
3-Nitroaniline
Concen: 35.706 ng
RT: 14.295 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Instrument :
BNA_P
ClientSampleId :
38M-NMS

Tgt Ion:138 Resp: 250146

Ion	Ratio	Lower	Upper
138	100		
108	11.2	8.3	12.5
92	113.3	86.2	129.2

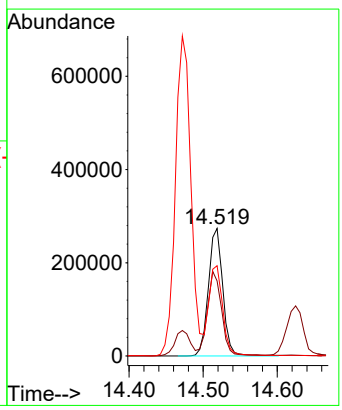


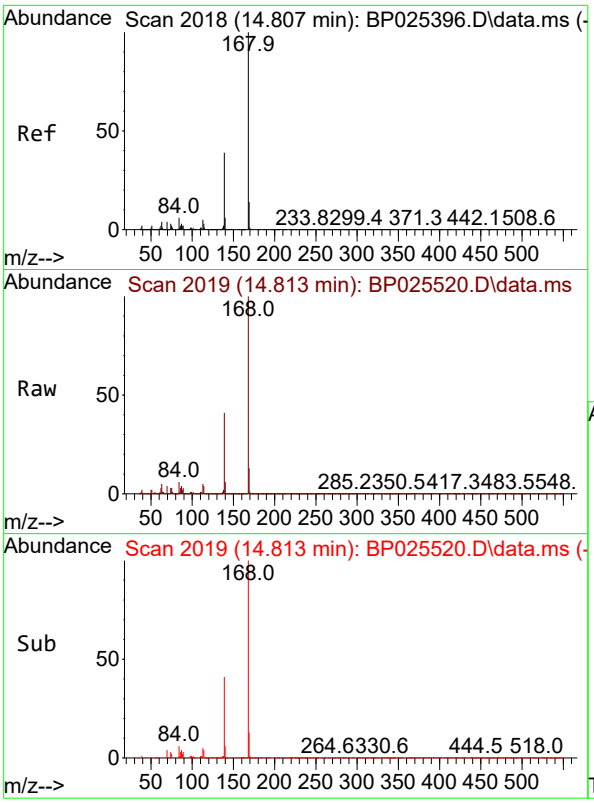


#54
2,4-Dinitrophenol
Concen: 111.289 ng
RT: 14.519 min Scan# 1969
Delta R.T. 0.012 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:184 Resp: 370066

Ion	Ratio	Lower	Upper
184	100		
63	58.9	49.4	74.2
154	70.8	54.6	82.0



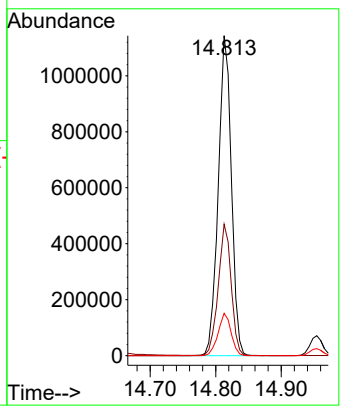


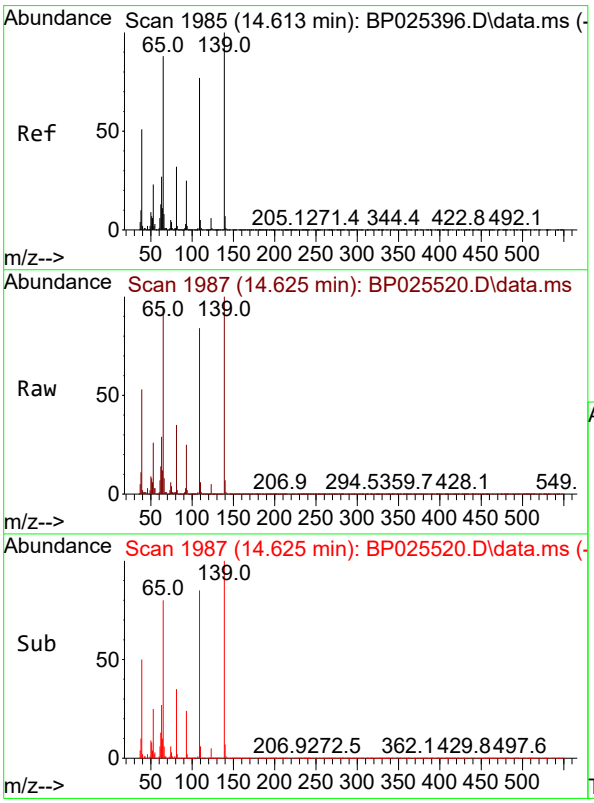
#55
Dibenzofuran
Concen: 45.003 ng
RT: 14.813 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Instrument :
BNA_P
ClientSampleId :
38M-NMS

Tgt Ion:168 Resp: 1576282

Ion	Ratio	Lower	Upper
168	100		
139	41.1	31.5	47.3
169	13.2	10.9	16.3

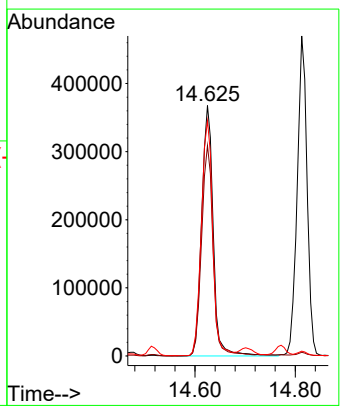


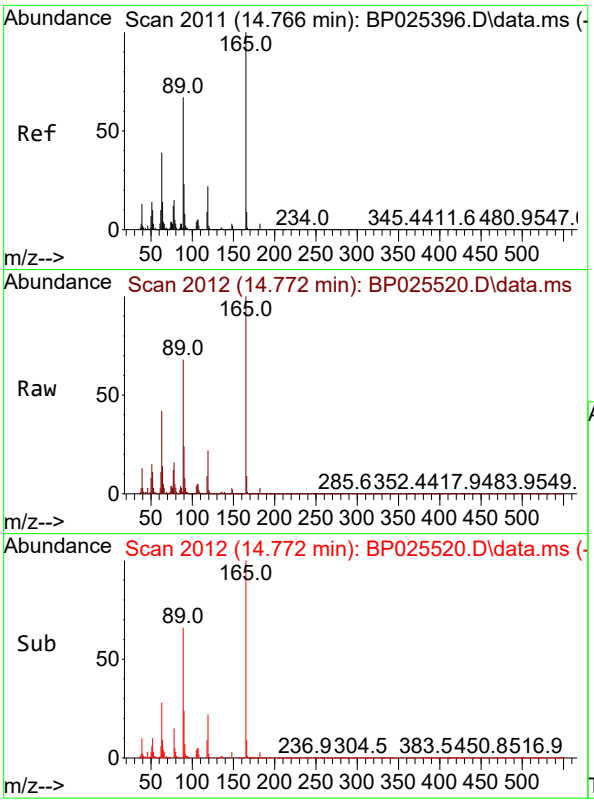


#56
4-Nitrophenol
Concen: 101.965 ng
RT: 14.625 min Scan# 1987
Delta R.T. 0.012 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:139 Resp: 587000

Ion	Ratio	Lower	Upper
139	100		
109	84.0	56.6	96.6
65	94.0	68.2	108.2



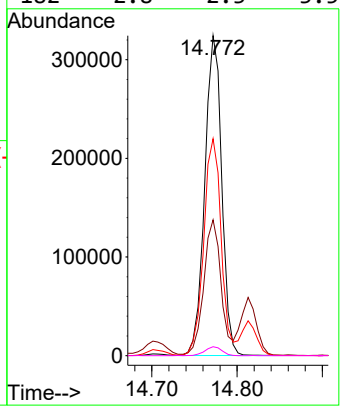


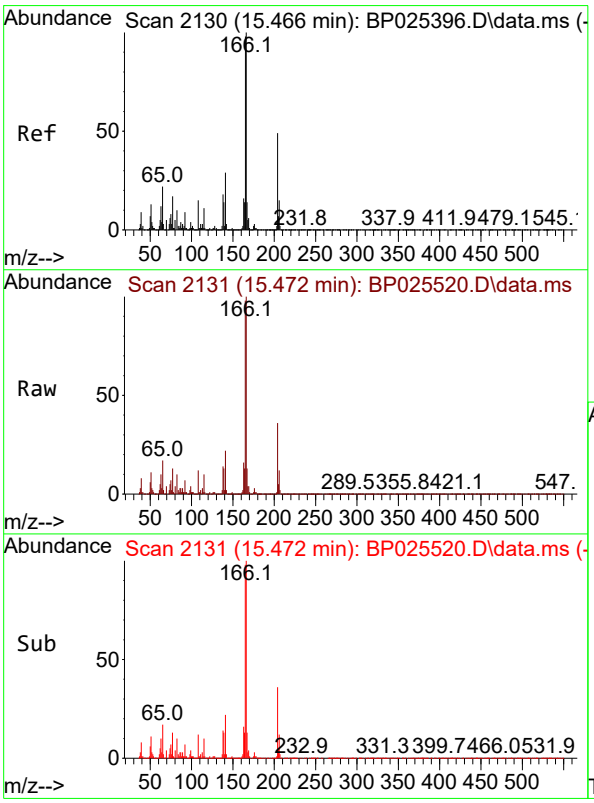
#57
2,4-Dinitrotoluene
Concen: 50.455 ng
RT: 14.772 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Instrument :
BNA_P
ClientSampleId :
38M-NMS

Tgt Ion:165 Resp: 448248

Ion	Ratio	Lower	Upper
165	100		
63	42.4	31.4	47.2
89	67.8	53.3	79.9
182	2.8	2.3	3.5

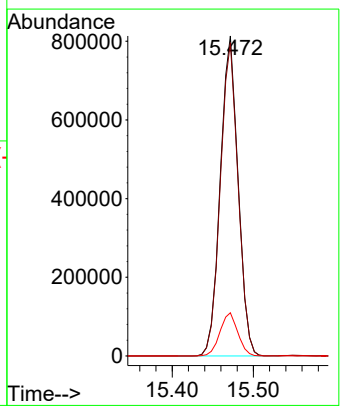


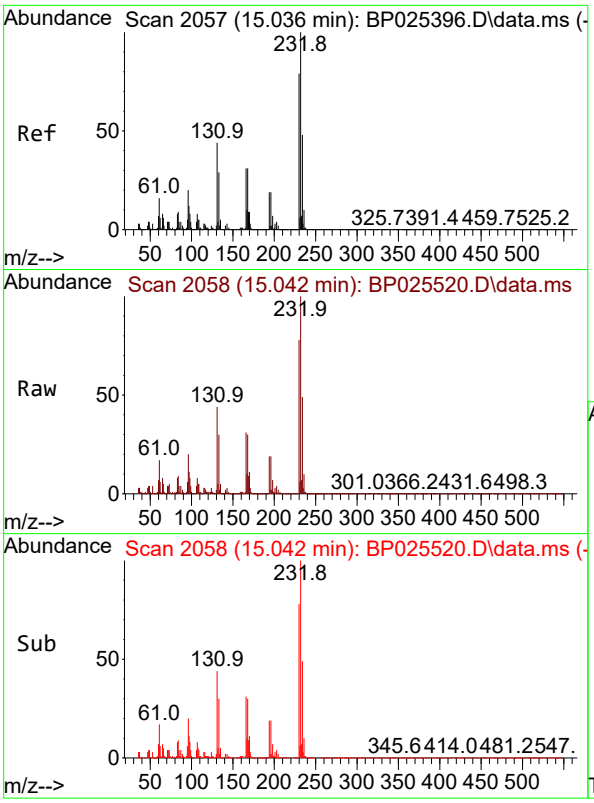


#58
Fluorene
Concen: 44.904 ng
RT: 15.472 min Scan# 2131
Delta R.T. 0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:166 Resp: 1241069

Ion	Ratio	Lower	Upper
166	100		
165	97.9	78.8	118.2
167	13.5	11.0	16.4



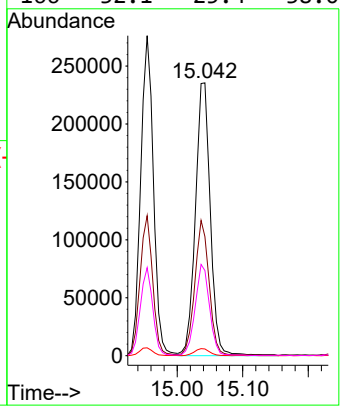


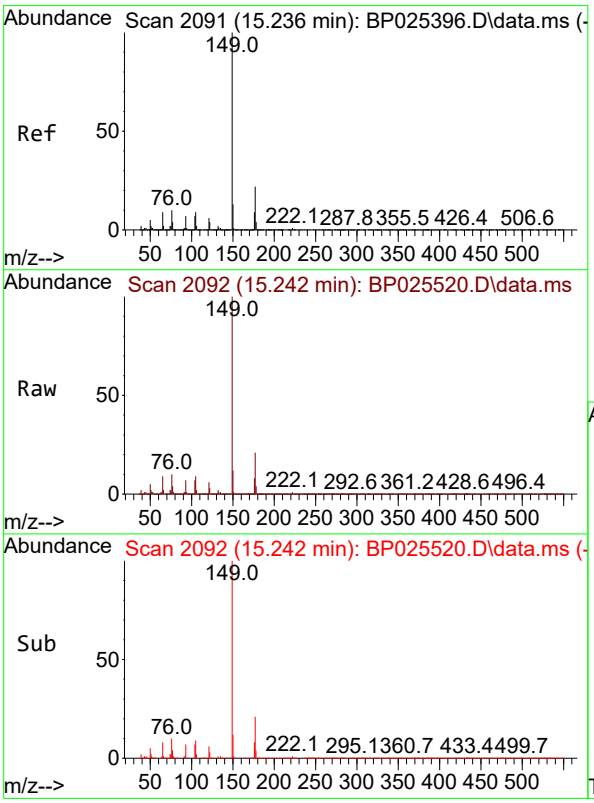
#59
2,3,4,6-Tetrachlorophenol
Concen: 49.135 ng
RT: 15.042 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Instrument :
BNA_P
ClientSampleId :
38M-NMS

Tgt Ion:232 Resp: 374029

Ion	Ratio	Lower	Upper
232	100		
131	47.5	37.0	55.6
130	2.6	1.9	2.9
166	32.1	25.4	38.0

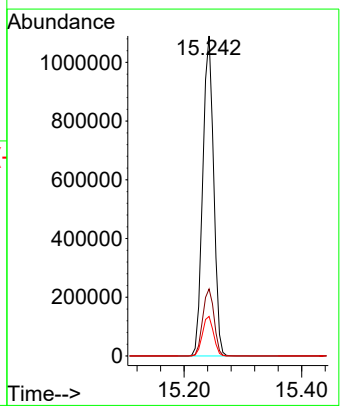


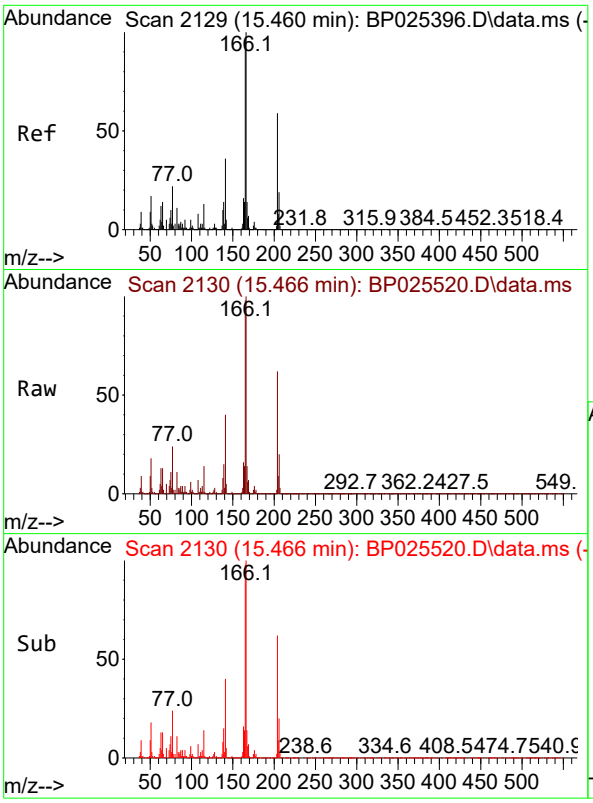


#60
Diethylphthalate
Concen: 46.559 ng
RT: 15.242 min Scan# 2092
Delta R.T. 0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:149 Resp: 1397636

Ion	Ratio	Lower	Upper
149	100		
177	20.9	17.3	25.9
150	12.4	10.3	15.5



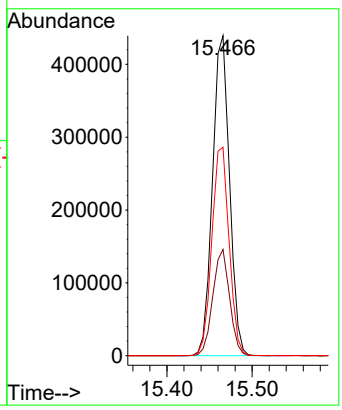


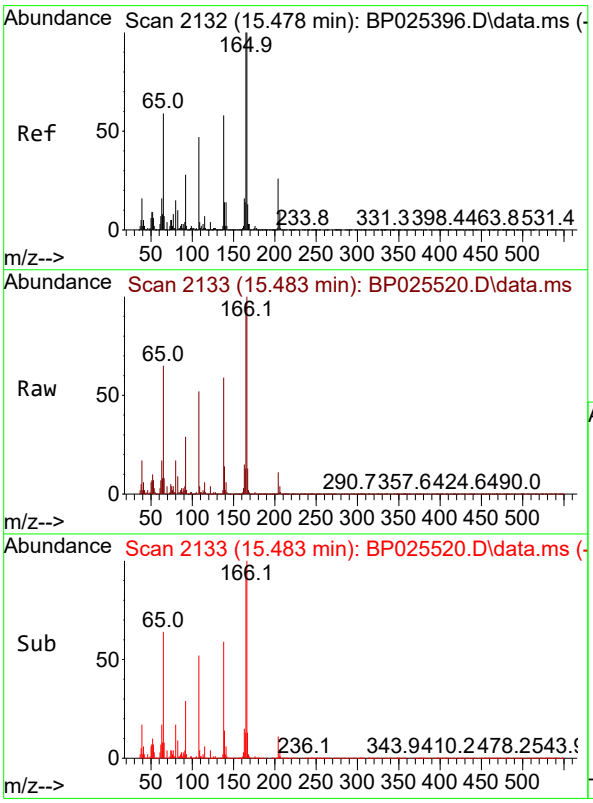
#61
4-Chlorophenyl-phenylether
Concen: 44.251 ng
RT: 15.466 min Scan# 21
Delta R.T. 0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Instrument :
BNA_P
ClientSampleId :
38M-NMS

Tgt Ion:204 Resp: 608258

Ion	Ratio	Lower	Upper
204	100		
206	33.2	25.8	38.8
141	65.1	49.4	74.2

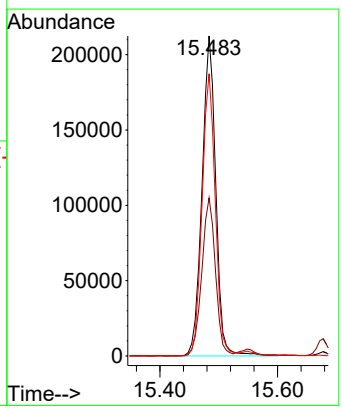


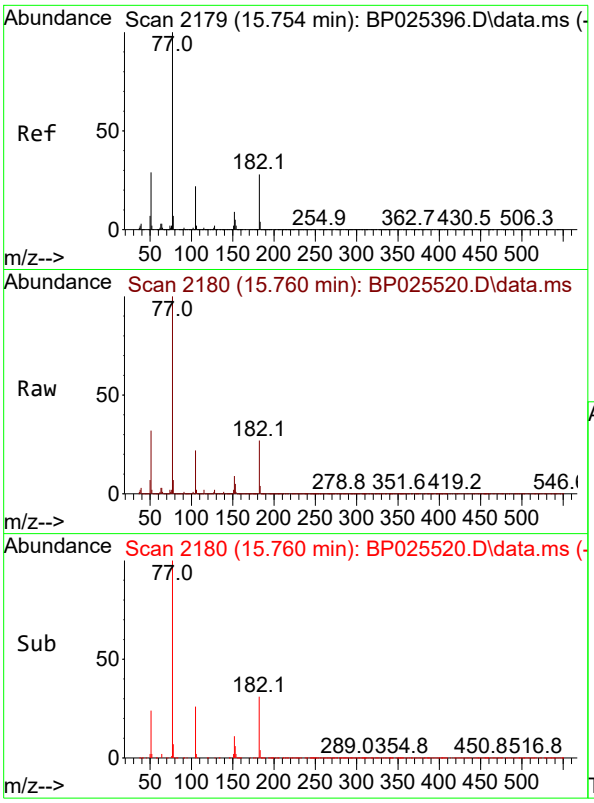


#62
4-Nitroaniline
Concen: 47.854 ng
RT: 15.483 min Scan# 2133
Delta R.T. 0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:138 Resp: 343690

Ion	Ratio	Lower	Upper
138	100		
92	49.4	29.1	69.1
108	88.2	61.5	101.5



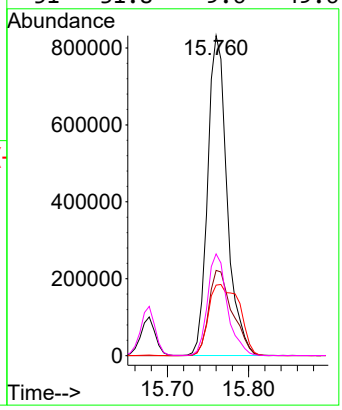


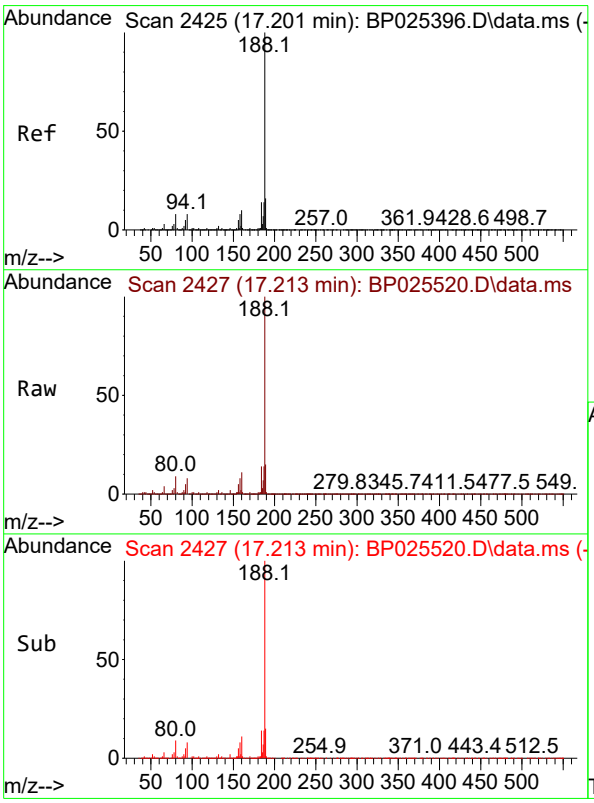
#63
Azobenzene
Concen: 53.725 ng
RT: 15.760 min Scan# 21
Delta R.T. 0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Instrument :
BNA_P
ClientSampleId :
38M-NMS

Tgt Ion: 77 Resp: 1380940

Ion	Ratio	Lower	Upper
77	100		
182	26.7	7.5	47.5
105	22.0	2.1	42.1
51	31.8	9.6	49.6

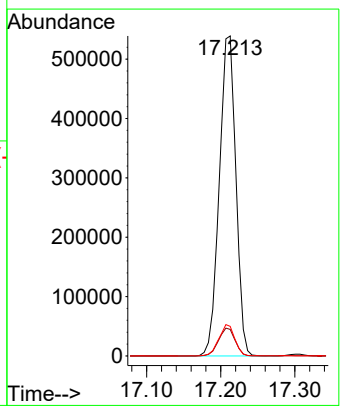


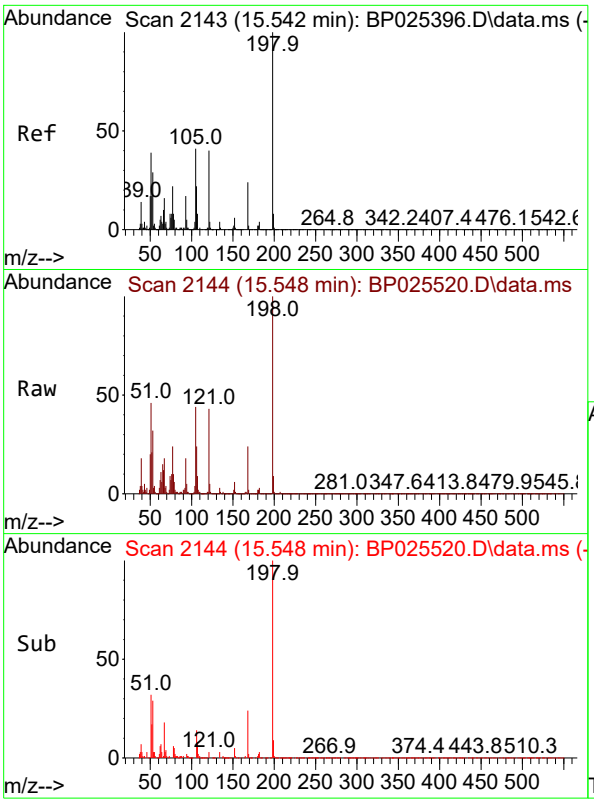


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.213 min Scan# 2427
Delta R.T. 0.012 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:188 Resp: 837501

Ion	Ratio	Lower	Upper
188	100		
94	8.3	6.6	10.0
80	9.2	6.7	10.1



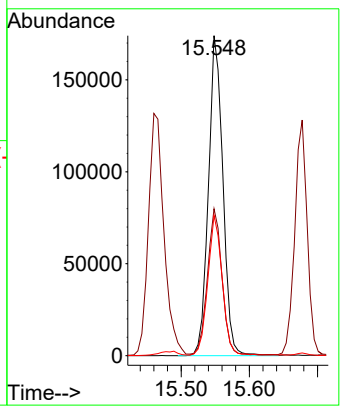


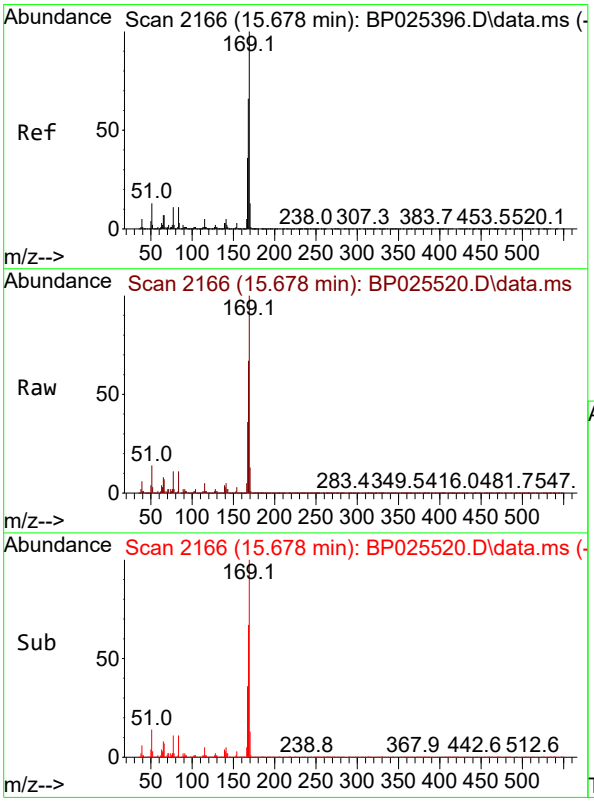
#65
4,6-Dinitro-2-methylphenol
Concen: 49.248 ng
RT: 15.548 min Scan# 21
Delta R.T. 0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Instrument :
BNA_P
ClientSampleId :
38M-NMS

Tgt Ion:198 Resp: 257102

Ion	Ratio	Lower	Upper
198	100		
51	45.9	19.6	59.6
105	43.8	20.9	60.9

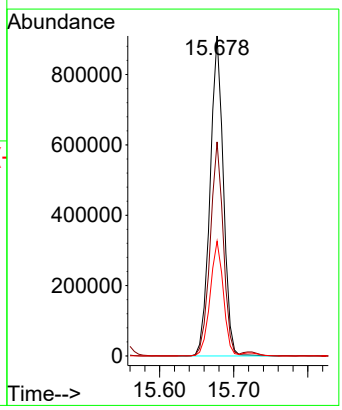


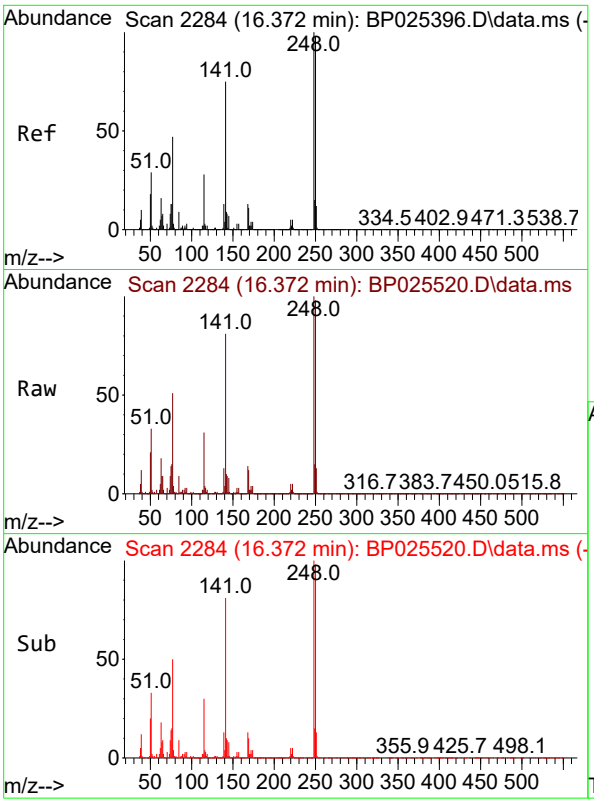


#66
n-Nitrosodiphenylamine
Concen: 44.222 ng
RT: 15.678 min Scan# 2166
Delta R.T. -0.000 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:169 Resp: 1129376

Ion	Ratio	Lower	Upper
169	100		
168	66.9	53.2	79.8
167	35.9	28.7	43.1



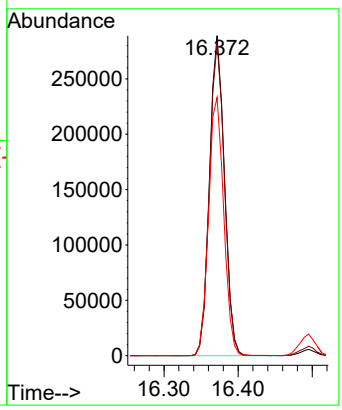


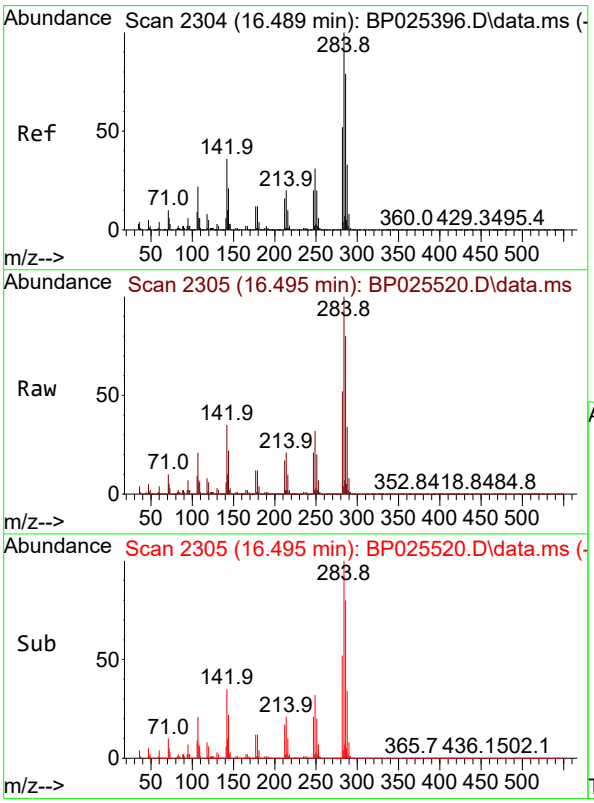
#67
4-Bromophenyl-phenylether
Concen: 44.083 ng
RT: 16.372 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Instrument :
BNA_P
ClientSampleId :
38M-NMS

Tgt Ion:248 Resp: 406044

Ion	Ratio	Lower	Upper
248	100		
250	97.9	78.2	117.2
141	80.7	59.6	89.4

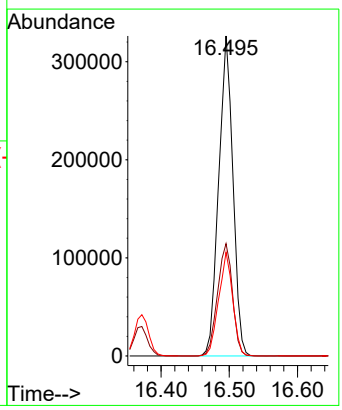


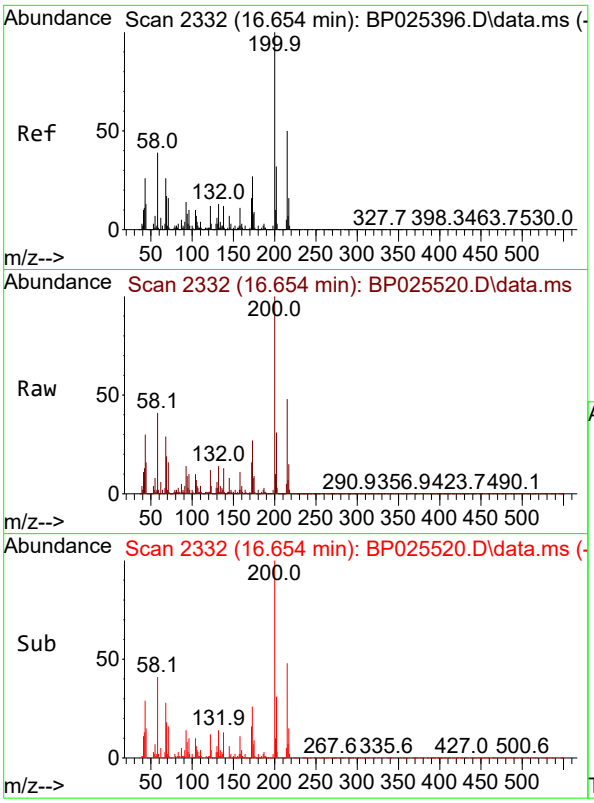


#68
Hexachlorobenzene
Concen: 44.337 ng
RT: 16.495 min Scan# 2305
Delta R.T. 0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:284 Resp: 473408

Ion	Ratio	Lower	Upper
284	100		
142	35.1	29.1	43.7
249	32.4	25.0	37.4



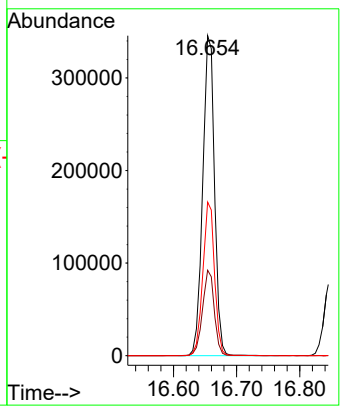


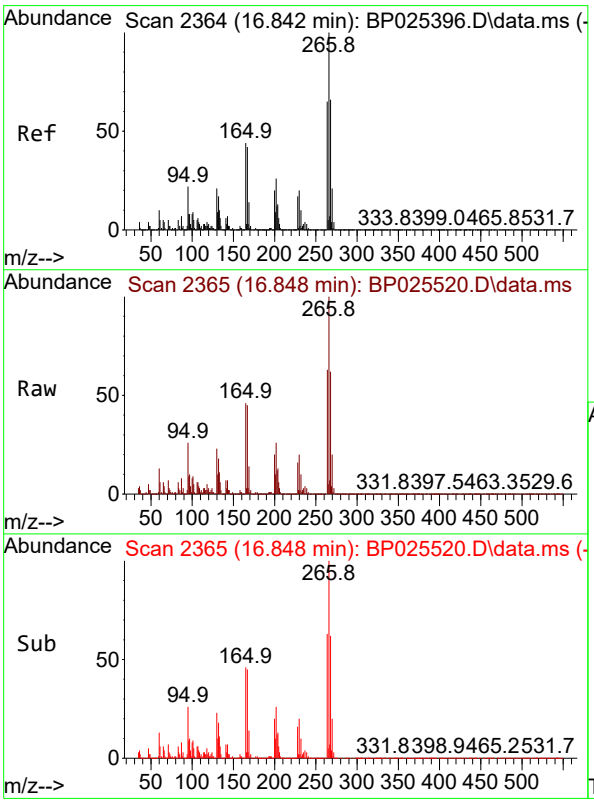
#69
Atrazine
Concen: 46.980 ng
RT: 16.654 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Instrument :
BNA_P
ClientSampleId :
38M-NMS

Tgt Ion:200 Resp: 449335

Ion	Ratio	Lower	Upper
200	100		
173	26.7	6.7	46.7
215	48.0	29.7	69.7

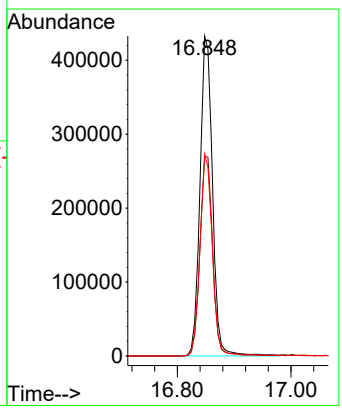


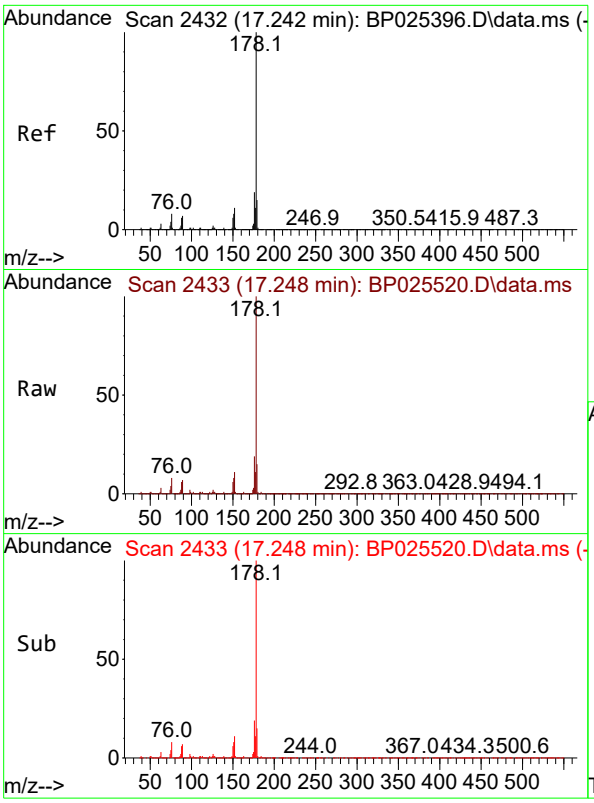


#70
Pentachlorophenol
Concen: 97.917 ng
RT: 16.848 min Scan# 2365
Delta R.T. 0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:266 Resp: 659972

Ion	Ratio	Lower	Upper
266	100		
268	62.4	52.6	79.0
264	63.1	52.0	78.0



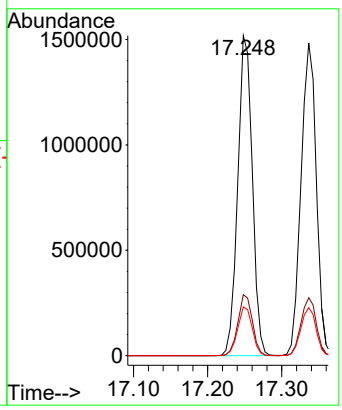


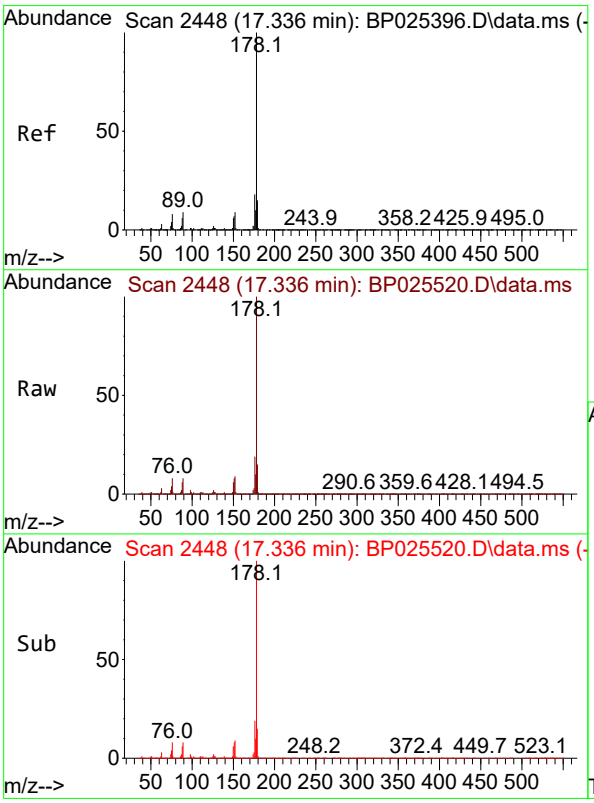
#71
Phenanthrene
Concen: 45.067 ng
RT: 17.248 min Scan# 24
Delta R.T. 0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Instrument :
BNA_P
ClientSampleId :
38M-NMS

Tgt Ion:178 Resp: 2073388

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.5	23.3
179	15.3	12.2	18.4

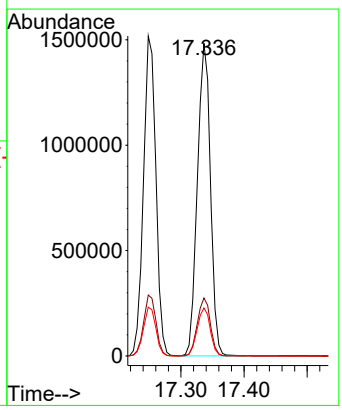


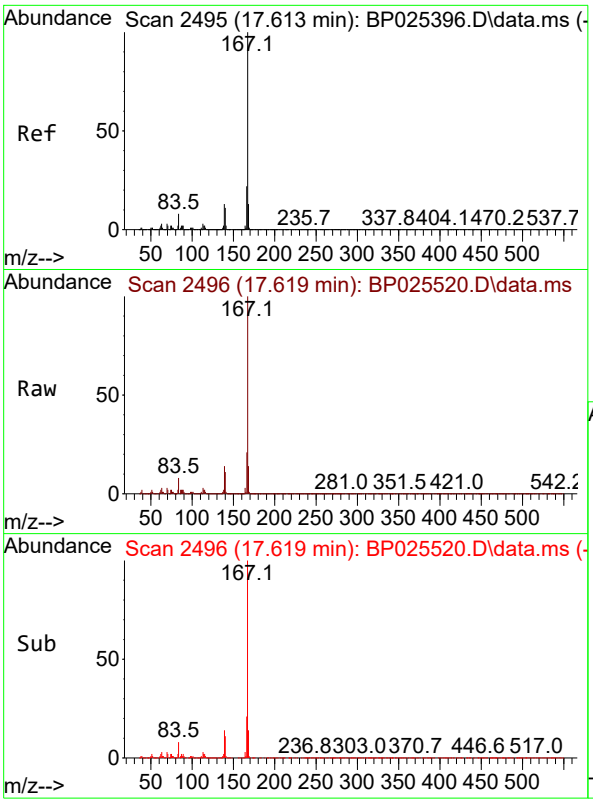


#72
Anthracene
Concen: 45.289 ng
RT: 17.336 min Scan# 2448
Delta R.T. -0.000 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:178 Resp: 2127785

Ion	Ratio	Lower	Upper
178	100		
176	18.5	14.7	22.1
179	15.4	12.2	18.2



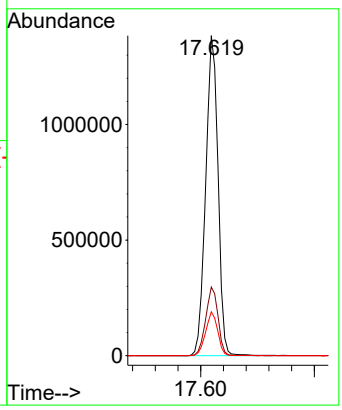


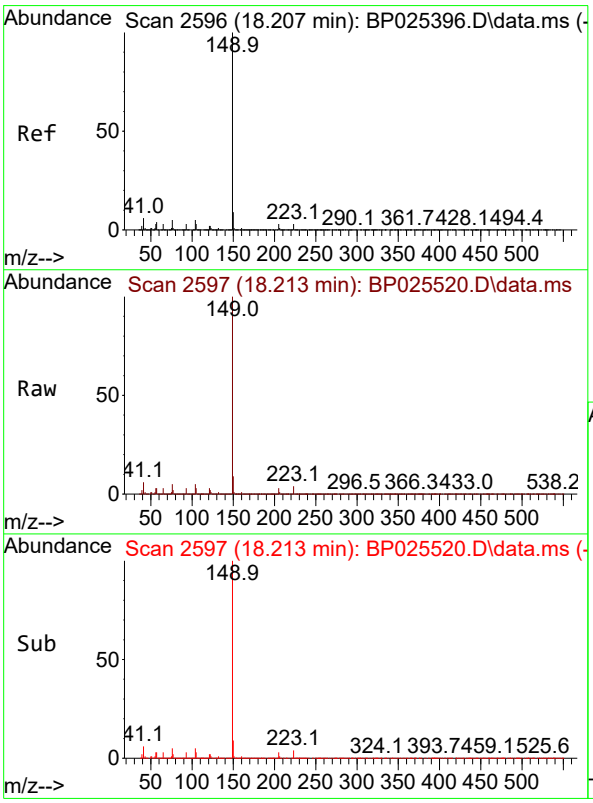
#73
Carbazole
Concen: 46.915 ng
RT: 17.619 min Scan# 24
Delta R.T. 0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Instrument :
BNA_P
ClientSampleId :
38M-NMS

Tgt Ion:167 Resp: 2076151

Ion	Ratio	Lower	Upper
167	100		
166	21.4	17.5	26.3
139	13.7	10.6	16.0

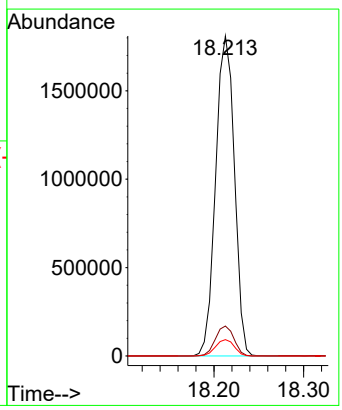


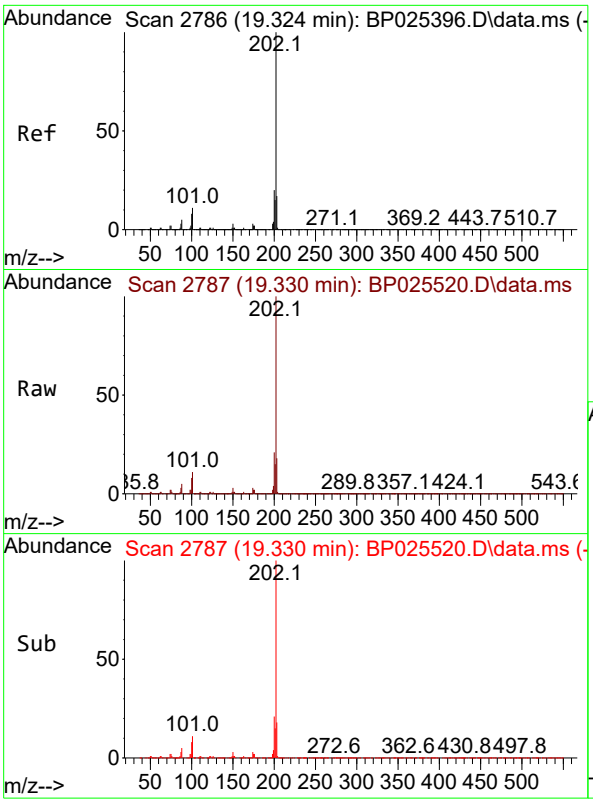


#74
Di-n-butylphthalate
Concen: 48.277 ng
RT: 18.213 min Scan# 2597
Delta R.T. 0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:149 Resp: 2628515

Ion	Ratio	Lower	Upper
149	100		
150	9.3	7.4	11.0
104	5.1	4.2	6.2



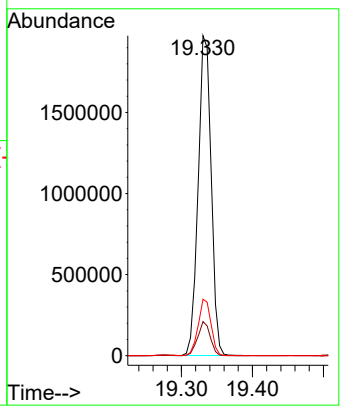


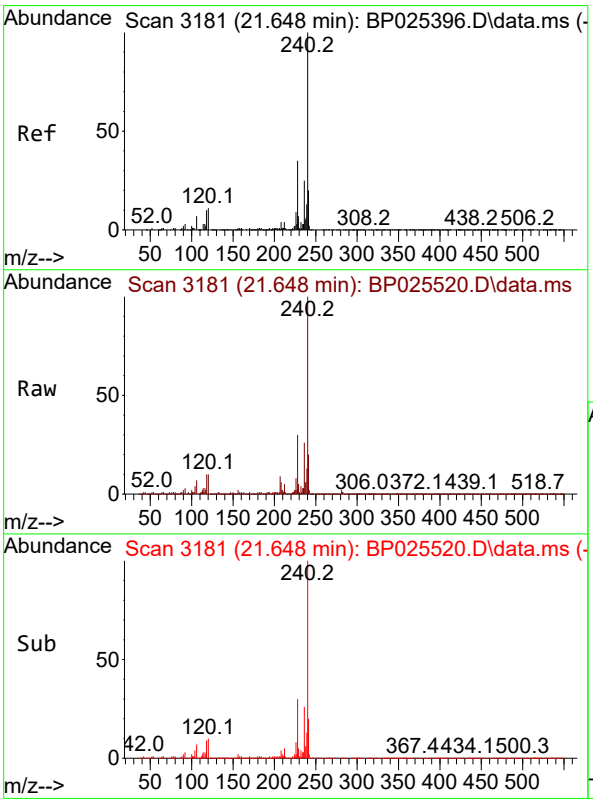
#75
Fluoranthene
Concen: 45.975 ng
RT: 19.330 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Instrument :
BNA_P
ClientSampleId :
38M-NMS

Tgt Ion:202 Resp: 2523020

Ion	Ratio	Lower	Upper
202	100		
101	10.6	0.0	31.1
203	17.7	0.0	37.3

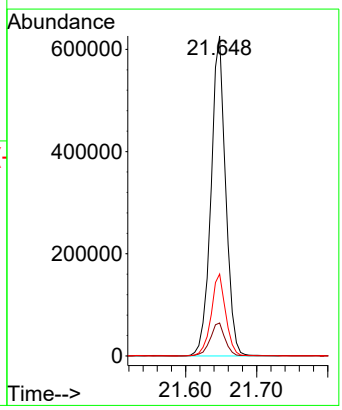


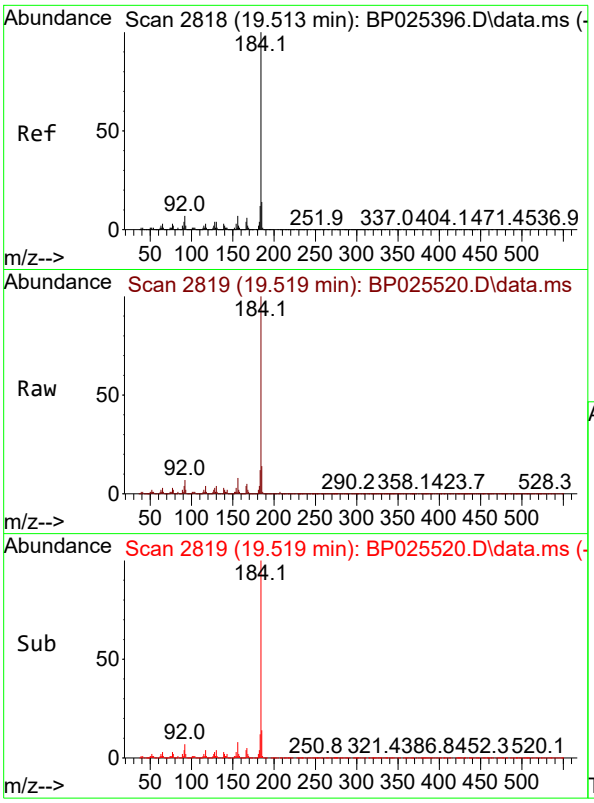


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.648 min Scan# 3181
Delta R.T. -0.000 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:240 Resp: 894140

Ion	Ratio	Lower	Upper
240	100		
120	10.3	8.9	13.3
236	25.6	19.8	29.8



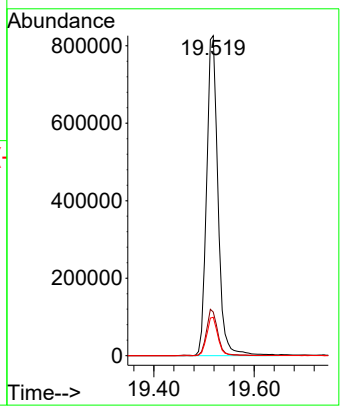


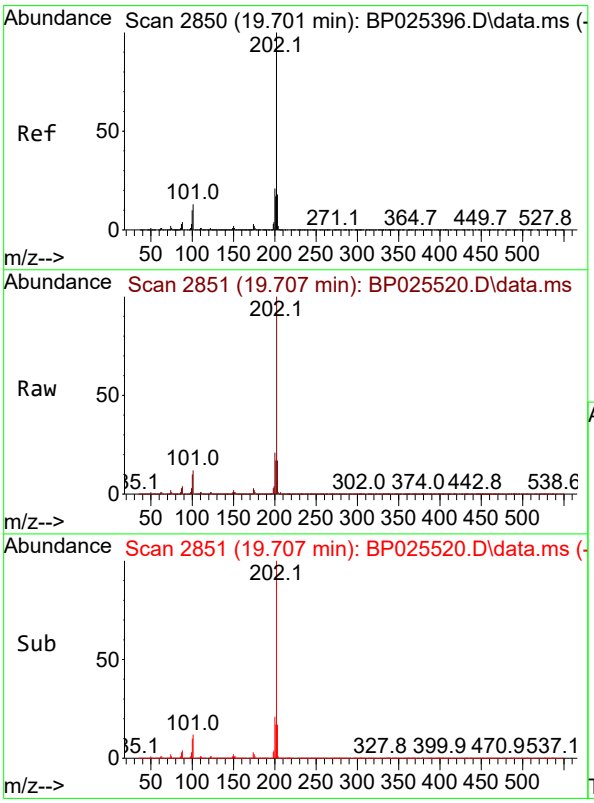
#77
Benzidine
Concen: 42.697 ng
RT: 19.519 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Instrument :
BNA_P
ClientSampleId :
38M-NMS

Tgt Ion:184 Resp: 1302891

Ion	Ratio	Lower	Upper
184	100		
185	13.6	11.5	17.3
183	12.0	9.4	14.2

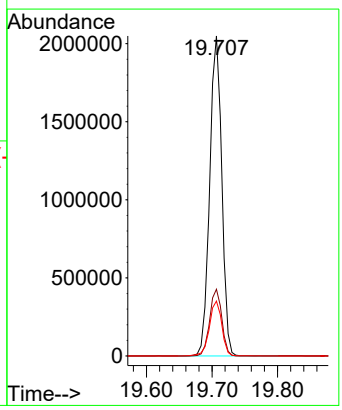


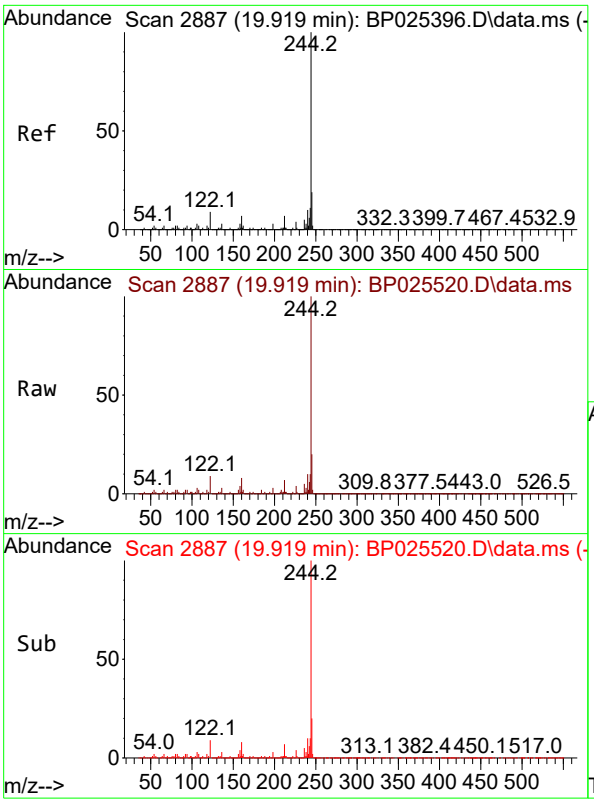


#78
Pyrene
Concen: 45.167 ng
RT: 19.707 min Scan# 2851
Delta R.T. 0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:202 Resp: 2624941

Ion	Ratio	Lower	Upper
202	100		
200	20.8	16.9	25.3
203	17.2	14.2	21.2



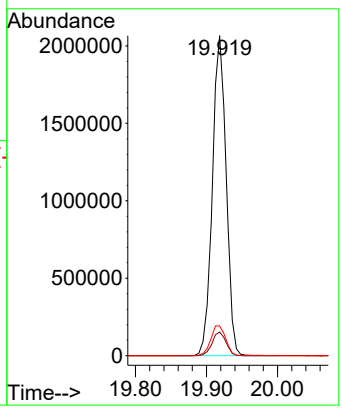


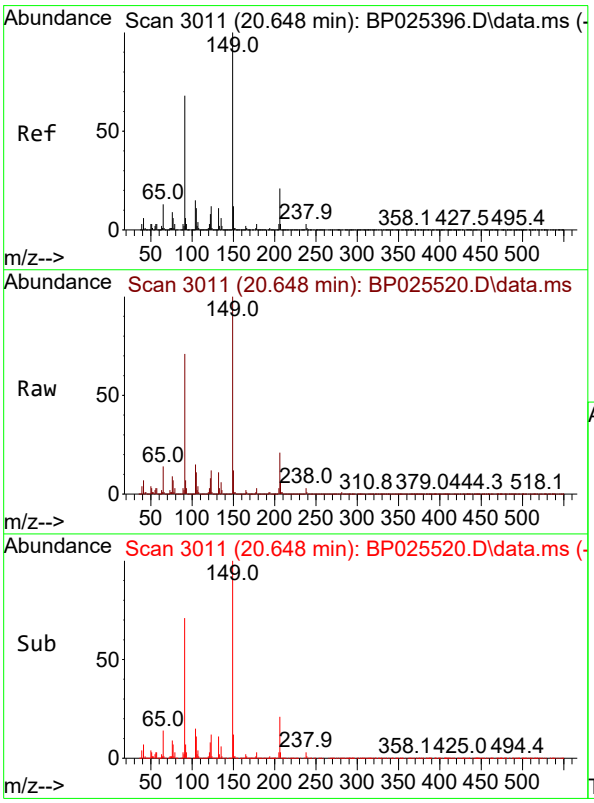
#79
Terphenyl-d14
Concen: 56.813 ng
RT: 19.919 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Instrument :
BNA_P
ClientSampleId :
38M-NMS

Tgt Ion:244 Resp: 2776530

Ion	Ratio	Lower	Upper
244	100		
212	7.4	5.8	8.6
122	9.3	7.4	11.2

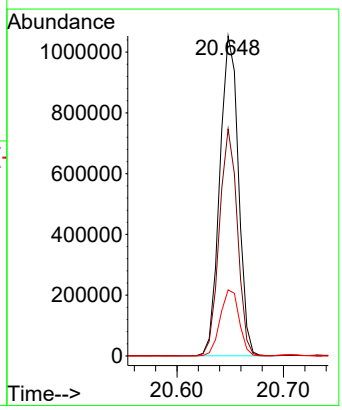


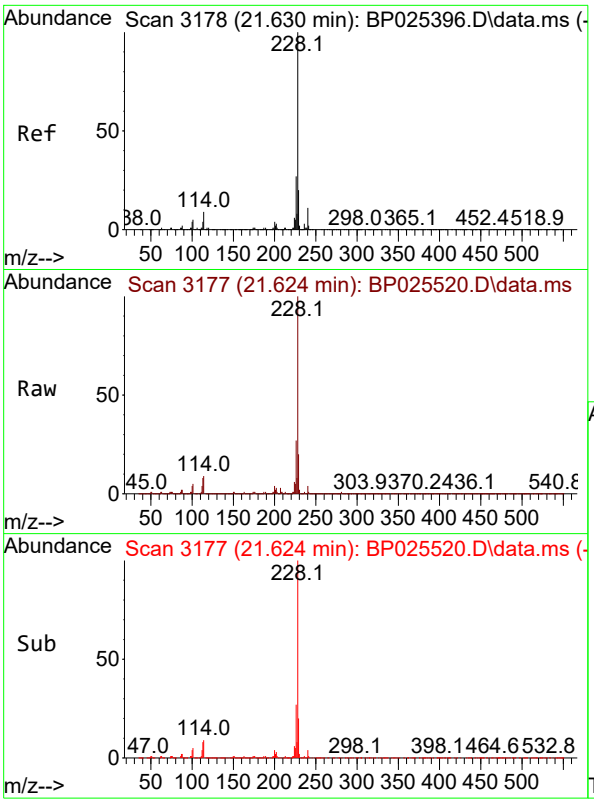


#80
Butylbenzylphthalate
Concen: 48.436 ng
RT: 20.648 min Scan# 3011
Delta R.T. -0.000 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:149 Resp: 1275745

Ion	Ratio	Lower	Upper
149	100		
91	70.9	54.2	81.2
206	20.7	16.6	24.8



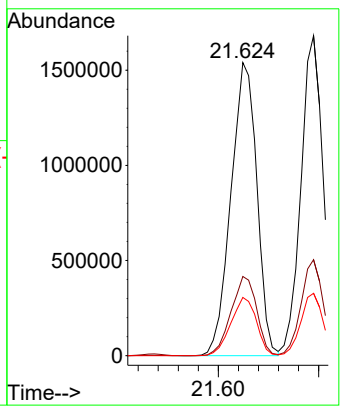


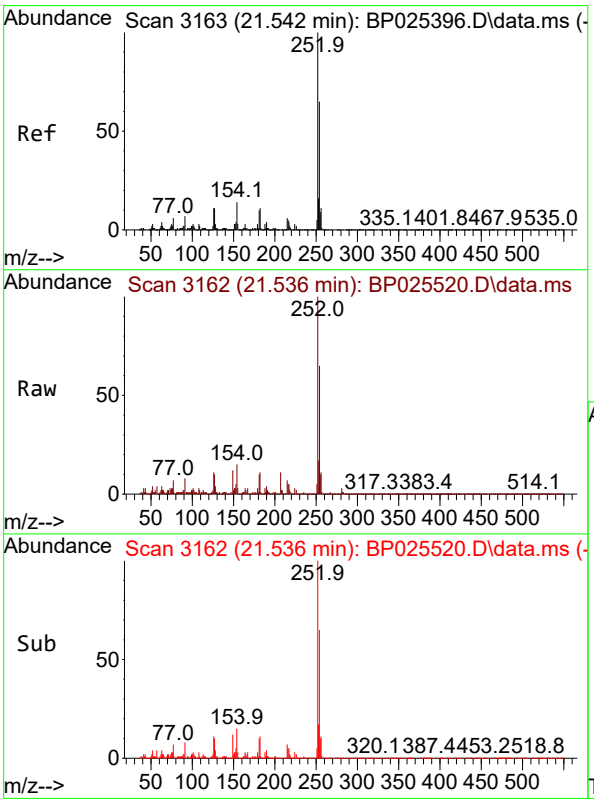
#81
Benzo(a)anthracene
Concen: 46.979 ng
RT: 21.624 min Scan# 3
Delta R.T. -0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Instrument :
BNA_P
ClientSampleId :
38M-NMS

Tgt Ion:228 Resp: 2770305

Ion	Ratio	Lower	Upper
228	100		
226	27.0	21.7	32.5
229	19.9	15.6	23.4

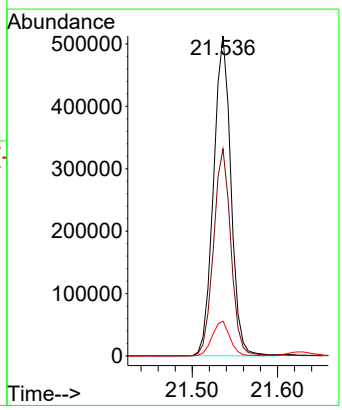


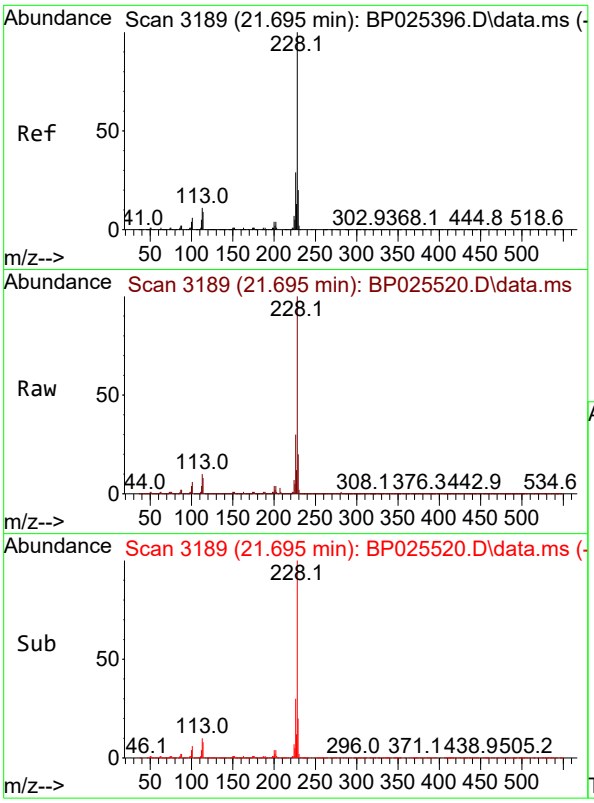


#82
3,3'-Dichlorobenzidine
Concen: 32.723 ng
RT: 21.536 min Scan# 3162
Delta R.T. -0.006 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:252 Resp: 727315

Ion	Ratio	Lower	Upper
252	100		
254	64.7	51.8	77.6
126	10.9	9.1	13.7



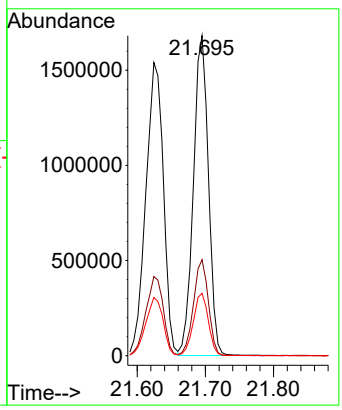


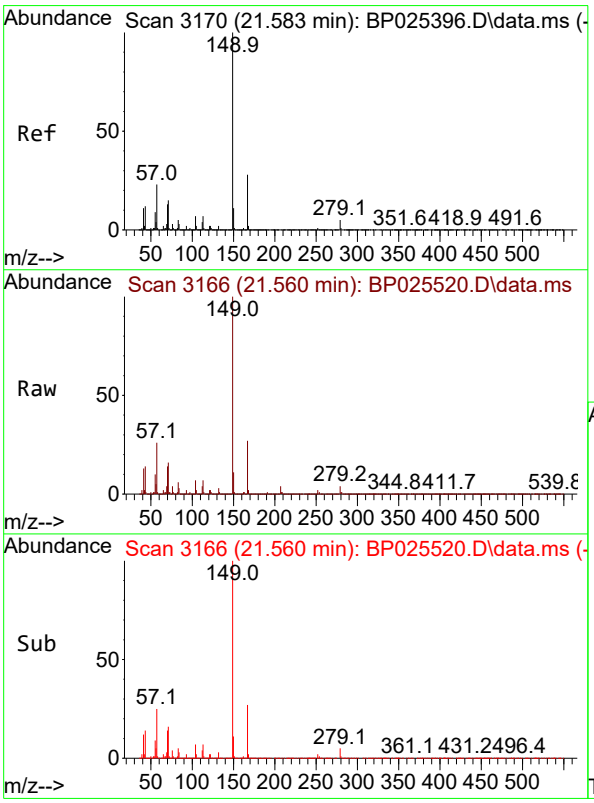
#83
Chrysene
Concen: 46.430 ng
RT: 21.695 min Scan# 3
Delta R.T. -0.000 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Instrument :
BNA_P
ClientSampleId :
38M-NMS

Tgt Ion:228 Resp: 2564073

Ion	Ratio	Lower	Upper
228	100		
226	30.0	23.2	34.8
229	19.5	15.6	23.4

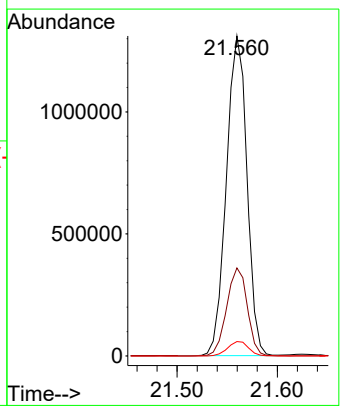


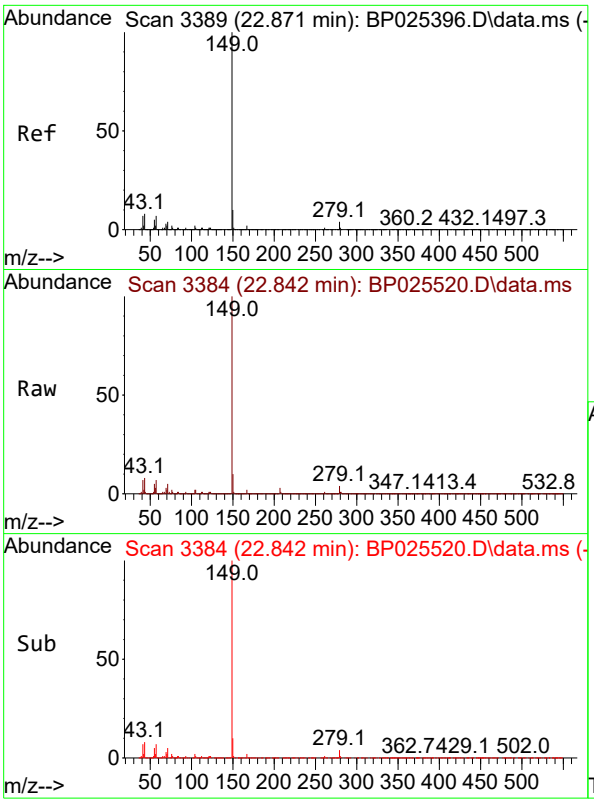


#84
Bis(2-ethylhexyl)phthalate
Concen: 48.156 ng
RT: 21.560 min Scan# 3166
Delta R.T. -0.024 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:149 Resp: 1867112

Ion	Ratio	Lower	Upper
149	100		
167	27.5	22.1	33.1
279	4.5	3.8	5.6



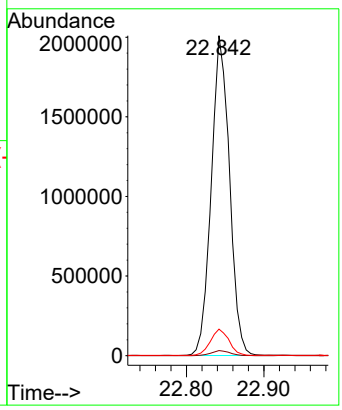


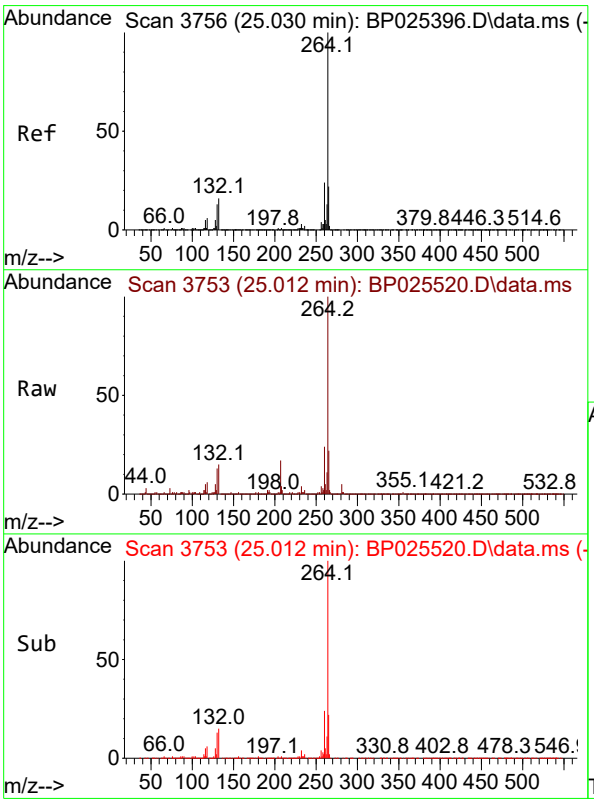
#85
Di-n-octyl phthalate
Concen: 49.169 ng
RT: 22.842 min Scan# 3
Delta R.T. -0.029 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Instrument :
BNA_P
ClientSampleId :
38M-NMS

Tgt Ion:149 Resp: 3279123

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	8.3	6.3	9.5

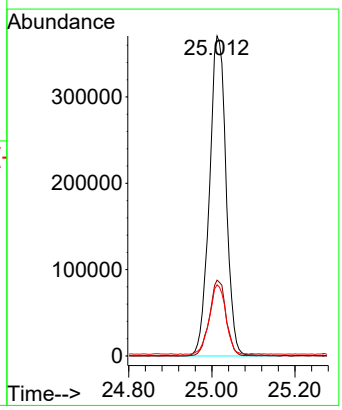


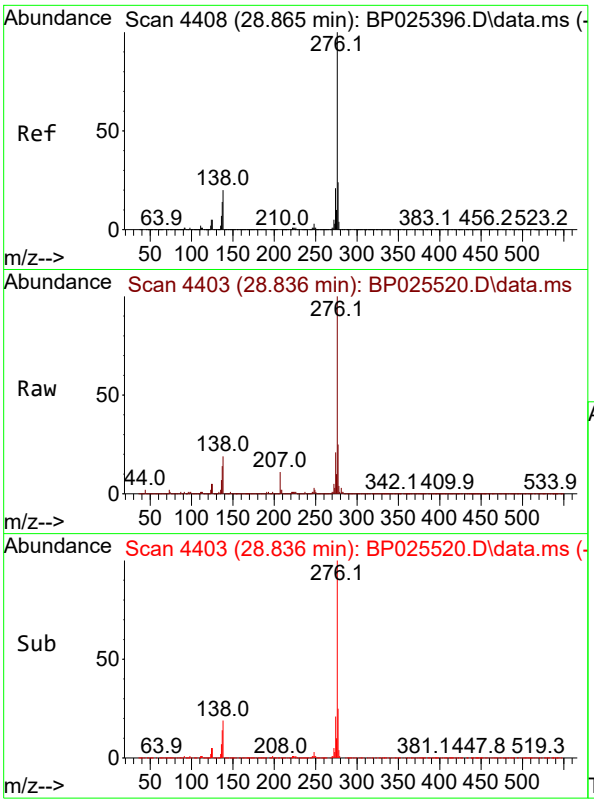


#86
Perylene-d12
Concen: 20.000 ng
RT: 25.012 min Scan# 3753
Delta R.T. -0.018 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:264 Resp: 1028739

Ion	Ratio	Lower	Upper
264	100		
260	23.7	19.3	28.9
265	22.2	17.4	26.0



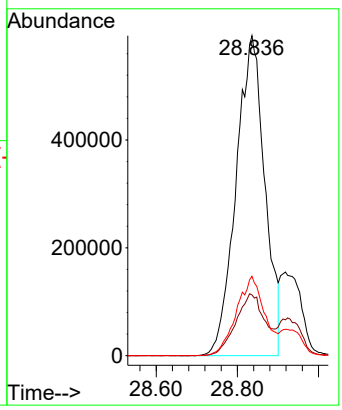


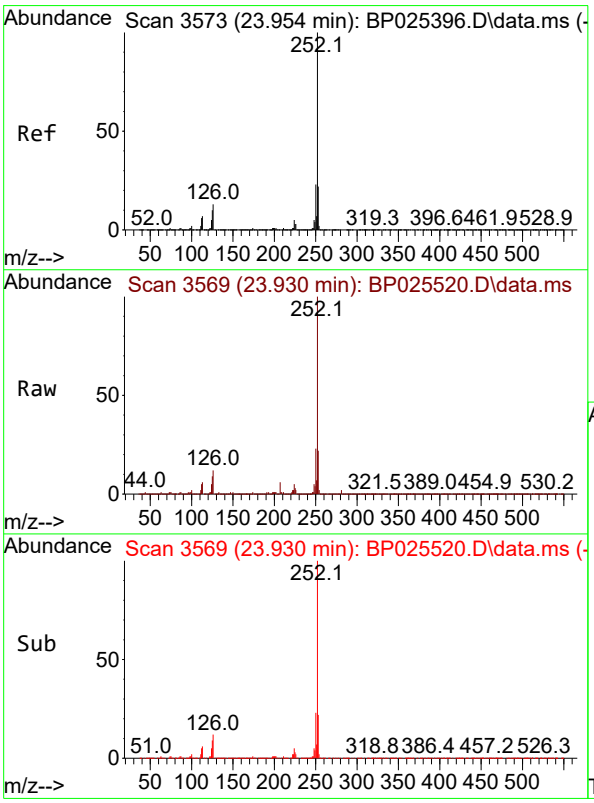
#87
Indeno(1,2,3-cd)pyrene
Concen: 38.657 ng
RT: 28.836 min Scan# 4
Delta R.T. -0.029 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Instrument :
BNA_P
ClientSampleId :
38M-NMS

Tgt Ion:276 Resp: 2916461

Ion	Ratio	Lower	Upper
276	100		
138	19.3	12.9	19.3
277	24.5	17.0	25.6

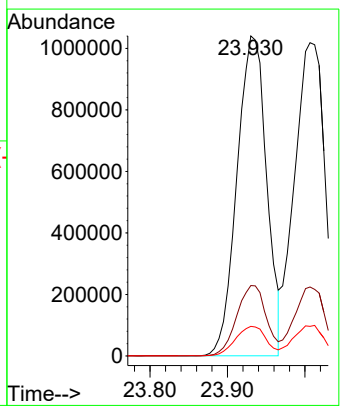


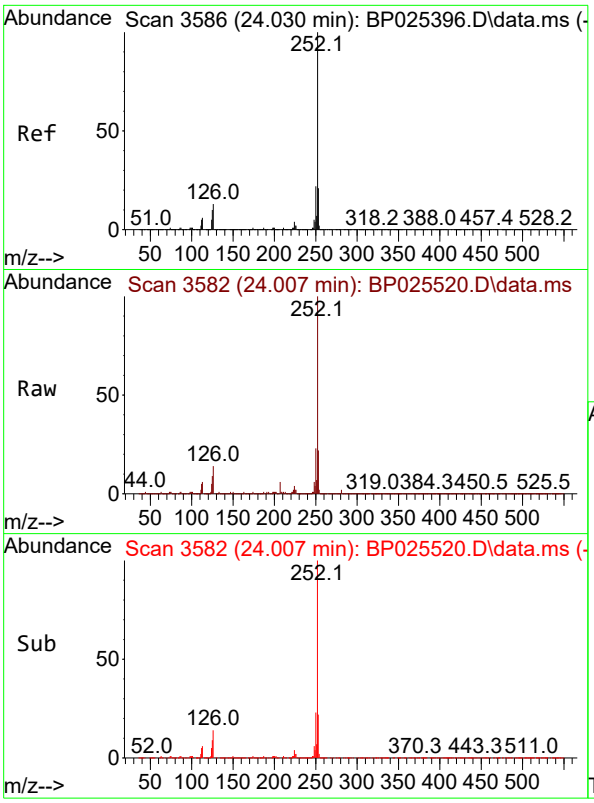


#88
Benzo(b)fluoranthene
Concen: 45.628 ng
RT: 23.930 min Scan# 3569
Delta R.T. -0.024 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:252 Resp: 2767890

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.7	26.5
125	9.2	7.9	11.9



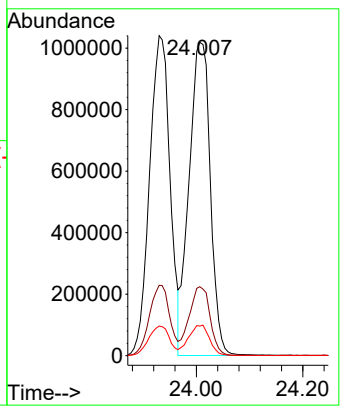


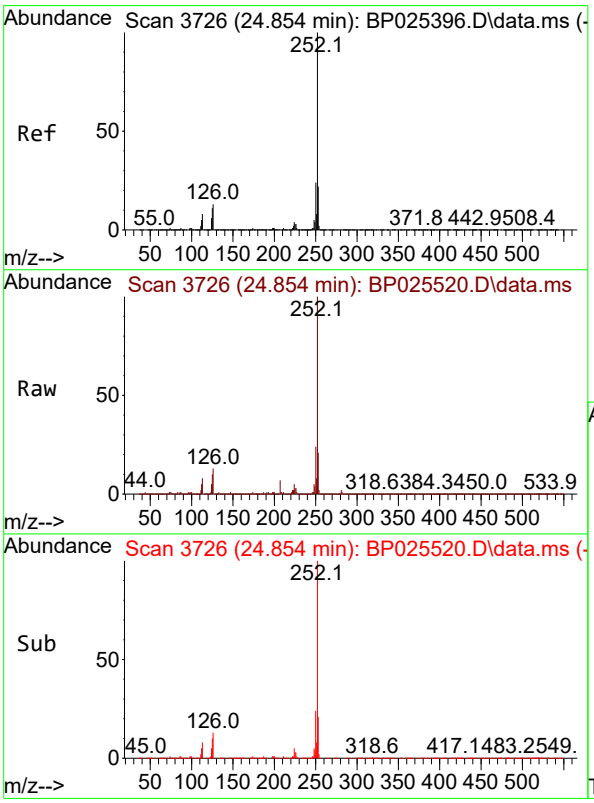
#89
Benzo(k)fluoranthene
Concen: 46.426 ng
RT: 24.007 min Scan# 3
Delta R.T. -0.024 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Instrument :
BNA_P
ClientSampleId :
38M-NMS

Tgt Ion:252 Resp: 2818197

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.1	25.7
125	9.5	7.8	11.6

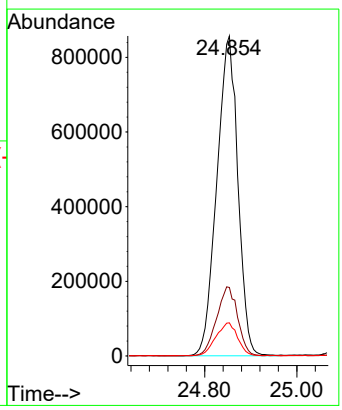


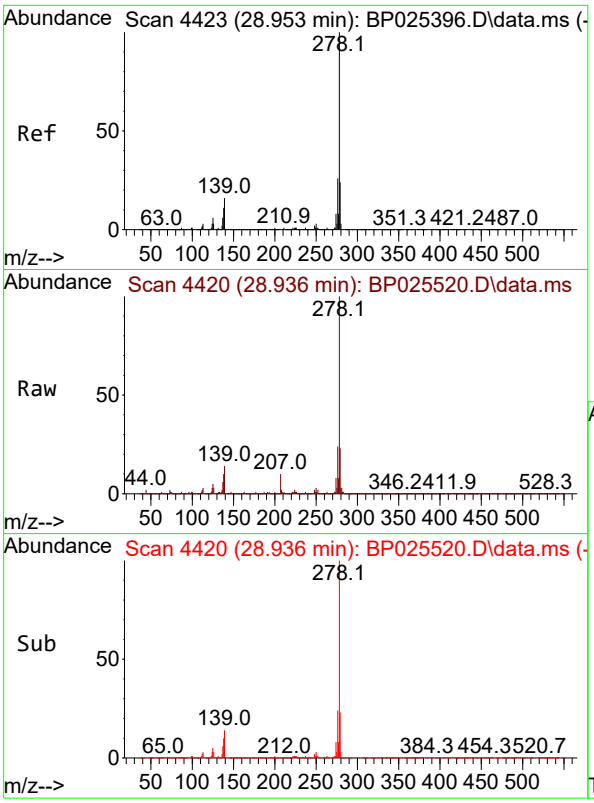


#90
Benzo(a)pyrene
Concen: 45.835 ng
RT: 24.854 min Scan# 3726
Delta R.T. -0.000 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:252 Resp: 2706532

Ion	Ratio	Lower	Upper
252	100		
253	21.4	17.5	26.3
125	10.4	8.7	13.1



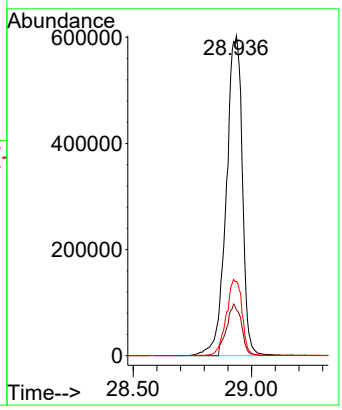


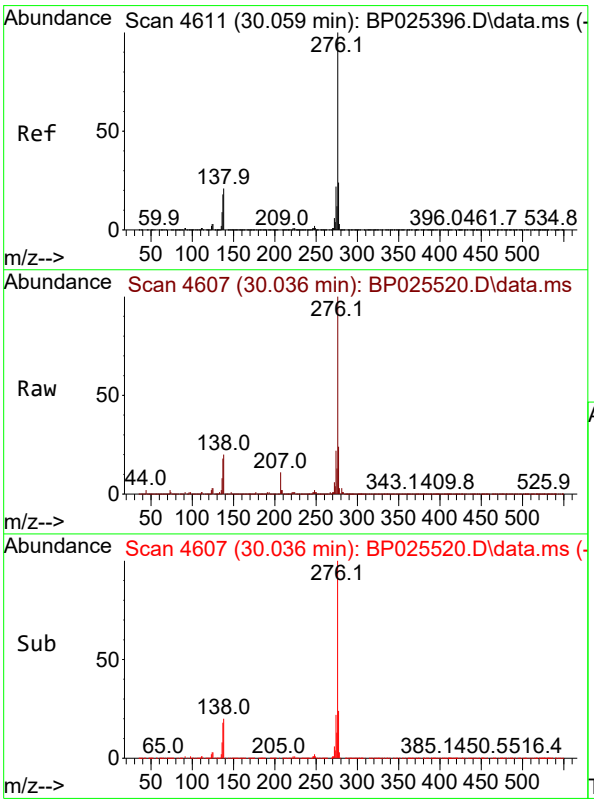
#91
Dibenzo(a,h)anthracene
Concen: 46.156 ng
RT: 28.936 min Scan# 4
Delta R.T. -0.018 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Instrument :
BNA_P
ClientSampleId :
38M-NMS

Tgt Ion:278 Resp: 2845641

Ion	Ratio	Lower	Upper
278	100		
139	14.2	13.0	19.4
279	23.2	19.4	29.2

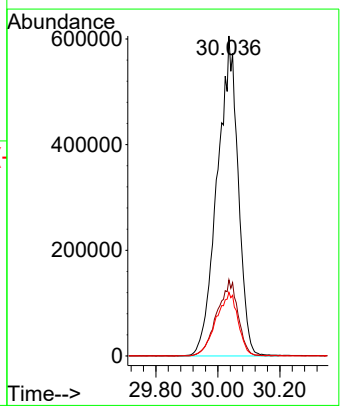




#92
Benzo(g,h,i)perylene
Concen: 46.657 ng
RT: 30.036 min Scan# 4607
Delta R.T. -0.024 min
Lab File: BP025520.D
Acq: 20 Aug 2025 23:54

Tgt Ion:276 Resp: 2827568

Ion	Ratio	Lower	Upper
276	100		
277	23.8	19.4	29.0
138	19.9	16.7	25.1



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025521.D
Acq On : 21 Aug 2025 00:35
Operator : CG/JU
Sample : Q2819-17MSD
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
38M-NMSD

Quant Time: Aug 21 03:06:18 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.784	152	171527	20.000	ng		-0.01
21) Naphthalene-d8	10.554	136	663397	20.000	ng		0.00
39) Acenaphthene-d10	14.401	164	422830	20.000	ng		0.00
64) Phenanthrene-d10	17.201	188	876970	20.000	ng		0.00
76) Chrysene-d12	21.648	240	922591	20.000	ng		0.00
86) Perylene-d12	25.012	264	1004402	20.000	ng		-0.02
System Monitoring Compounds							
5) 2-Fluorophenol	5.407	112	1185975	114.824	ng		0.00
7) Phenol-d6	6.972	99	1479802	111.749	ng		0.00
23) Nitrobenzene-d5	8.931	82	971459	74.076	ng		0.00
42) 2,4,6-Tribromophenol	15.913	330	661648	116.255	ng		0.00
45) 2-Fluorobiphenyl	13.019	172	2019365	65.271	ng		0.00
79) Terphenyl-d14	19.918	244	3302241	65.486	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.331	88	165537	40.917	ng		98
3) Pyridine	3.725	79	452402	40.855	ng		94
4) n-Nitrosodimethylamine	3.631	42	228829	50.124	ng		93
6) Aniline	7.119	93	627117	35.149	ng		97
8) 2-Chlorophenol	7.360	128	549667	47.160	ng		97
9) Benzaldehyde	6.937	77	262818	28.328	ng		98
10) Phenol	6.995	94	662998	47.714	ng		96
11) bis(2-Chloroethyl)ether	7.213	93	492646	45.488	ng		98
12) 1,3-Dichlorobenzene	7.678	146	589038	45.833	ng		98
13) 1,4-Dichlorobenzene	7.819	146	601939	45.823	ng		99
14) 1,2-Dichlorobenzene	8.137	146	574205	45.156	ng		99
15) Benzyl Alcohol	8.019	79	482640	45.871	ng		95
16) 2,2'-oxybis(1-Chloropr...	8.307	45	667168	45.986	ng		98
17) 2-Methylphenol	8.231	107	449551	46.583	ng		98
18) Hexachloroethane	8.854	117	228597	47.330	ng		98
19) n-Nitroso-di-n-propyla...	8.584	70	371432	42.346	ng		94
20) 3+4-Methylphenols	8.548	107	606668	45.351	ng		97
22) Acetophenone	8.601	105	788958	47.423	ng	#	98
24) Nitrobenzene	8.972	77	574414	49.009	ng		98
25) Isophorone	9.495	82	1051182	45.292	ng		99
26) 2-Nitrophenol	9.678	139	293717	48.831	ng		99
27) 2,4-Dimethylphenol	9.737	122	479485	46.353	ng		96
28) bis(2-Chloroethoxy)met...	9.966	93	646011	46.047	ng		98
29) 2,4-Dichlorophenol	10.207	162	504018	49.050	ng		97
30) 1,2,4-Trichlorobenzene	10.425	180	519037	46.078	ng		99
31) Naphthalene	10.607	128	1609899	46.690	ng		99
32) Benzoic acid	9.889	122	404729	52.997	ng		96
33) 4-Chloroaniline	10.707	127	382975	25.145	ng		99
34) Hexachlorobutadiene	10.889	225	333721	47.571	ng		97
35) Caprolactam	11.495	113	183400	48.674	ng		95
36) 4-Chloro-3-methylphenol	11.836	107	567653	48.142	ng		98
37) 2-Methylnaphthalene	12.213	142	1019268	45.424	ng		99
38) 1-Methylnaphthalene	12.431	142	1055711	44.241	ng		100
40) 1,2,4,5-Tetrachloroben...	12.589	216	575385	47.117	ng		99
41) Hexachlorocyclopentadiene	12.572	237	715312	96.973	ng		99
43) 2,4,6-Trichlorophenol	12.825	196	409731	49.699	ng		99

Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025521.D
Acq On : 21 Aug 2025 00:35
Operator : CG/JU
Sample : Q2819-17MSD
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
38M-NMSD

Quant Time: Aug 21 03:06:18 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration

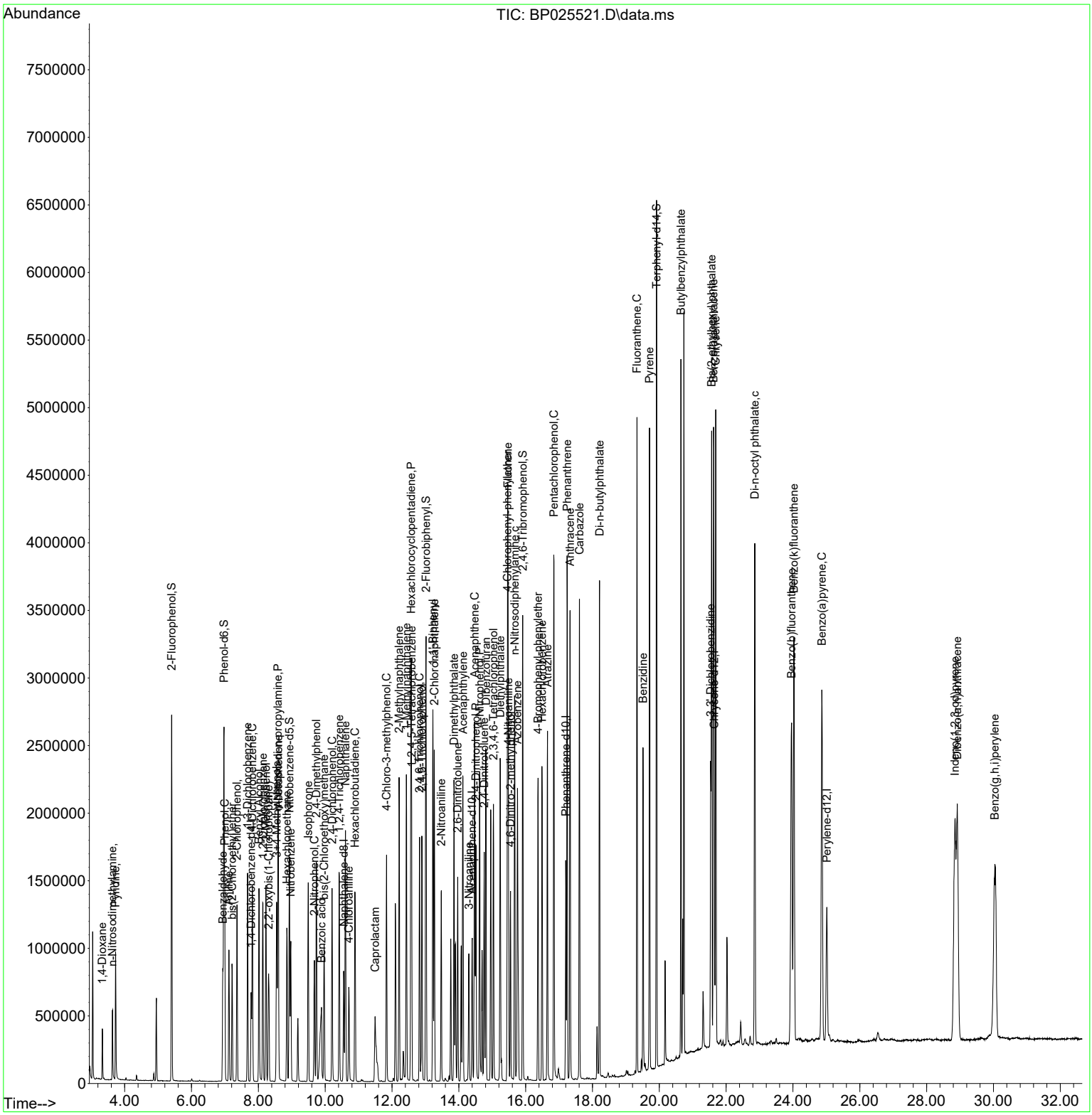
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.895	196	449793	49.780	ng	99
46) 1,1'-Biphenyl	13.225	154	1425183	46.410	ng	99
47) 2-Chloronaphthalene	13.266	162	1113435	46.575	ng	99
48) 2-Nitroaniline	13.477	65	362504	52.041	ng	100
49) Acenaphthylene	14.125	152	1887410	47.713	ng	99
50) Dimethylphthalate	13.860	163	1445275	46.677	ng	99
51) 2,6-Dinitrotoluene	13.966	165	326188	49.982	ng	93
52) Acenaphthene	14.472	154	1078099	46.430	ng	99
53) 3-Nitroaniline	14.301	138	248220	33.806	ng	95
54) 2,4-Dinitrophenol	14.513	184	406122	116.529	ng	98
55) Dibenzofuran	14.813	168	1718002	46.799	ng	99
56) 4-Nitrophenol	14.624	139	631088	104.595	ng	91
57) 2,4-Dinitrotoluene	14.760	165	490004	52.625	ng	96
58) Fluorene	15.472	166	1344141	46.402	ng	99
59) 2,3,4,6-Tetrachlorophenol	15.036	232	402588	50.461	ng	98
60) Diethylphthalate	15.242	149	1569300	49.879	ng	99
61) 4-Chlorophenyl-phenyle...	15.454	204	671793	46.631	ng	96
62) 4-Nitroaniline	15.483	138	377285	50.122	ng	94
63) Azobenzene	15.754	77	1530314	56.805	ng	97
65) 4,6-Dinitro-2-methylph...	15.548	198	283428	51.847	ng	95
66) n-Nitrosodiphenylamine	15.672	169	1251523	46.799	ng	99
67) 4-Bromophenyl-phenylether	16.371	248	448328	46.483	ng	95
68) Hexachlorobenzene	16.489	284	514752	46.040	ng	99
69) Atrazine	16.654	200	493890	49.315	ng	98
70) Pentachlorophenol	16.848	266	733067	103.867	ng	98
71) Phenanthrene	17.242	178	2258400	46.879	ng	100
72) Anthracene	17.330	178	2330282	47.367	ng	99
73) Carbazole	17.613	167	2245579	48.460	ng	99
74) Di-n-butylphthalate	18.213	149	2881804	50.547	ng	100
75) Fluoranthene	19.330	202	2750858	47.871	ng	99
77) Benzidine	19.512	184	1382116	43.896	ng	99
78) Pyrene	19.707	202	2893940	48.260	ng	100
80) Butylbenzylphthalate	20.648	149	1409430	51.861	ng	99
81) Benzo(a)anthracene	21.624	228	2922112	48.025	ng	100
82) 3,3'-Dichlorobenzidine	21.536	252	691173	30.138	ng	99
83) Chrysene	21.689	228	2731566	47.938	ng	98
84) Bis(2-ethylhexyl)phtha...	21.565	149	2049629	51.233	ng	100
85) Di-n-octyl phthalate	22.859	149	3451915	50.164	ng	99
87) Indeno(1,2,3-cd)pyrene	28.847	276	3450790	46.848	ng	93
88) Benzo(b)fluoranthene	23.959	252	2985647	50.411	ng	99
89) Benzo(k)fluoranthene	24.030	252	2788266	47.046	ng	99
90) Benzo(a)pyrene	24.865	252	2759047	47.856	ng	100
91) Dibenzo(a,h)anthracene	28.918	278	2847919	47.312	ng	98
92) Benzo(g,h,i)perylene	30.041	276	1636612	27.659	ng	99

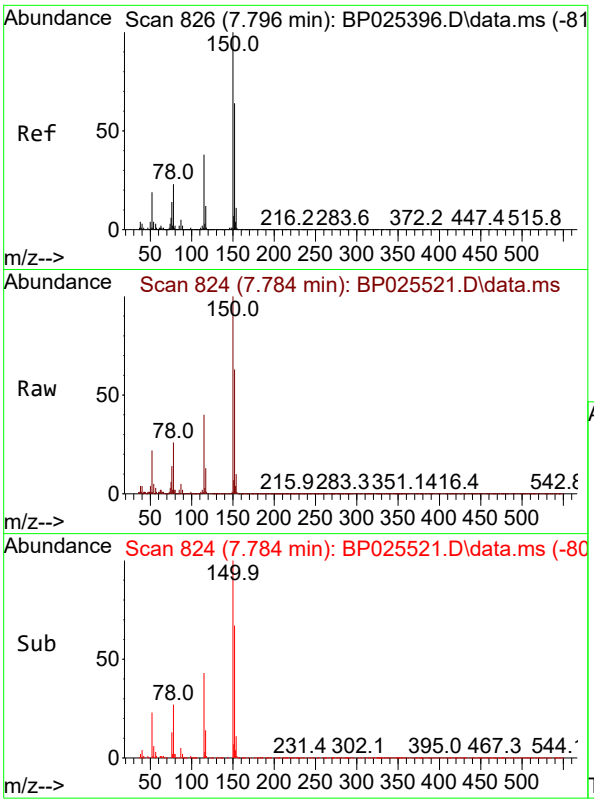
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082025\
Data File : BP025521.D
Acq On : 21 Aug 2025 00:35
Operator : CG/JU
Sample : Q2819-17MSD
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
38M-NMSD

Quant Time: Aug 21 03:06:18 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration



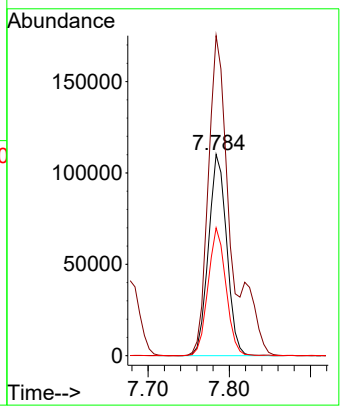


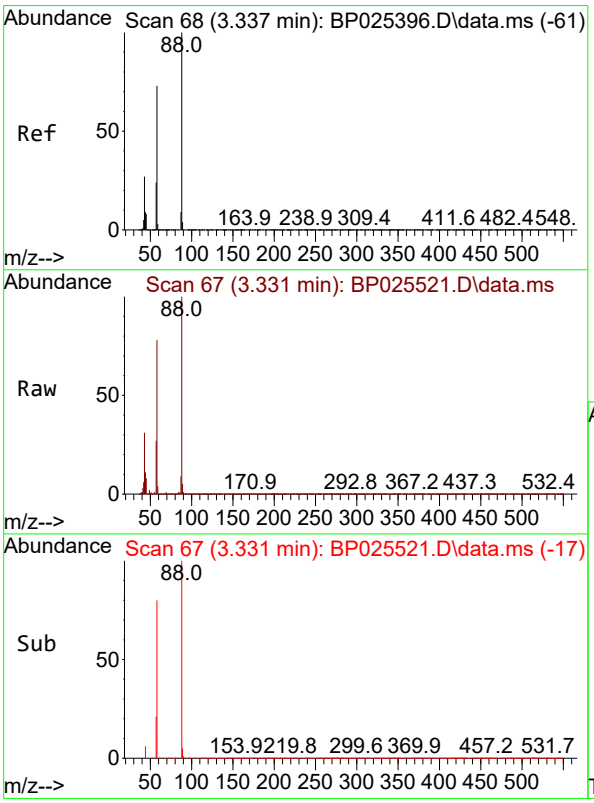
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.784 min Scan# 8
Delta R.T. -0.012 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Instrument :
BNA_P
ClientSampleId :
38M-NMSD

Tgt Ion:152 Resp: 171527

Ion	Ratio	Lower	Upper
152	100		
150	159.0	125.9	188.9
115	63.5	48.5	72.7

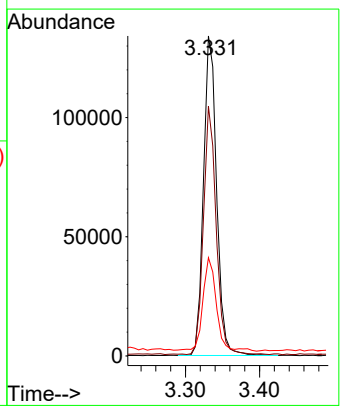


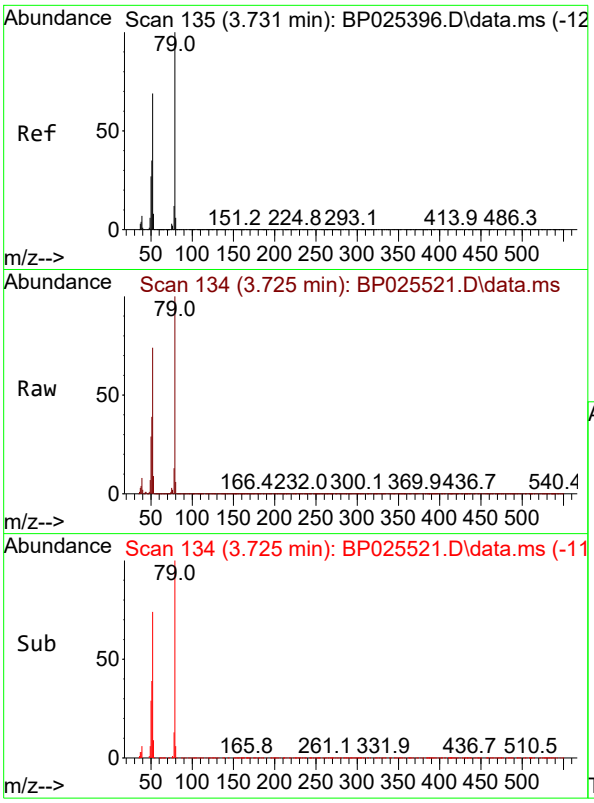


#2
1,4-Dioxane
Concen: 40.917 ng
RT: 3.331 min Scan# 67
Delta R.T. -0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion: 88 Resp: 165537

Ion	Ratio	Lower	Upper
88	100		
58	75.6	59.2	88.8
43	28.2	21.7	32.5



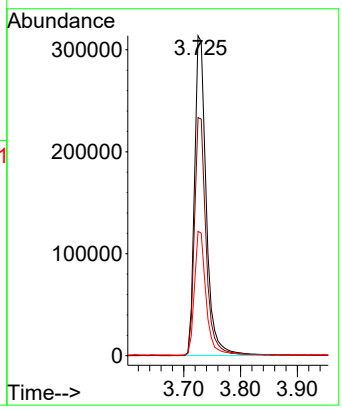


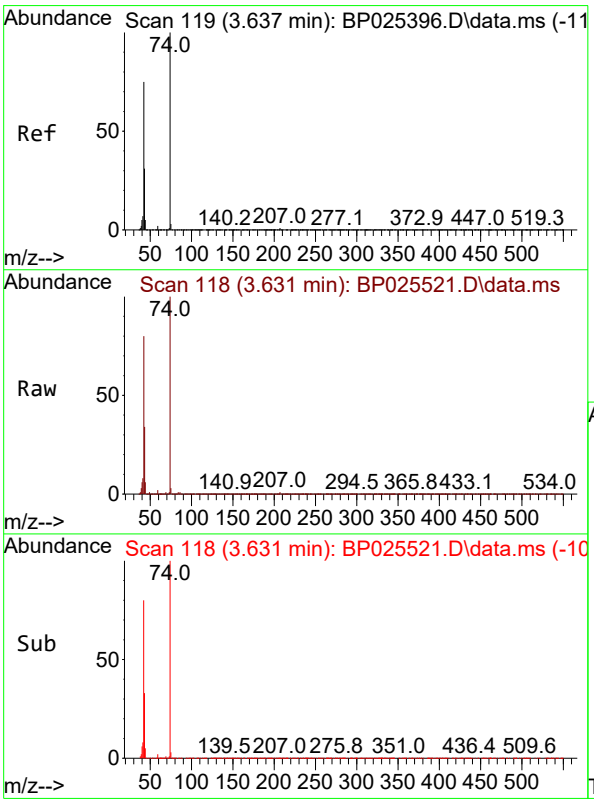
#3
Pyridine
Concen: 40.855 ng
RT: 3.725 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Instrument :
BNA_P
ClientSampleId :
38M-NMSD

Tgt Ion: 79 Resp: 452402

Ion	Ratio	Lower	Upper
79	100		
52	74.4	55.5	83.3
51	38.9	28.3	42.5

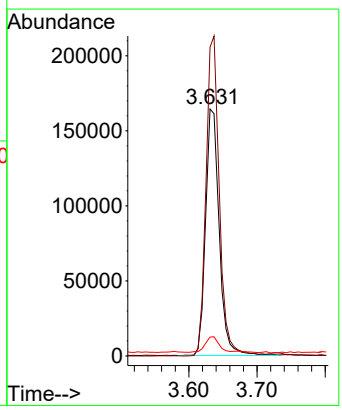


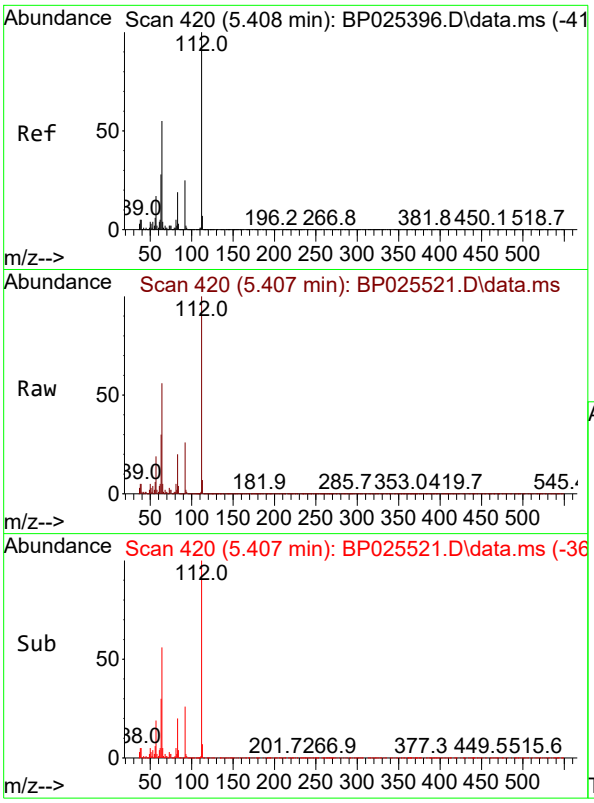


#4
n-Nitrosodimethylamine
Concen: 50.124 ng
RT: 3.631 min Scan# 118
Delta R.T. -0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion: 42 Resp: 228829

Ion	Ratio	Lower	Upper
42	100		
74	125.0	107.0	160.4
44	7.6	6.2	9.4



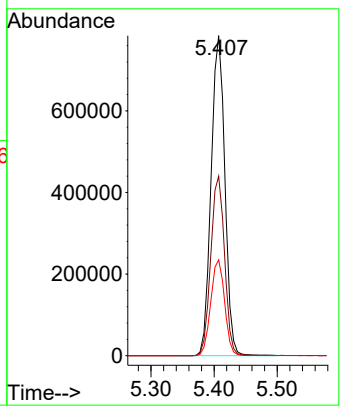


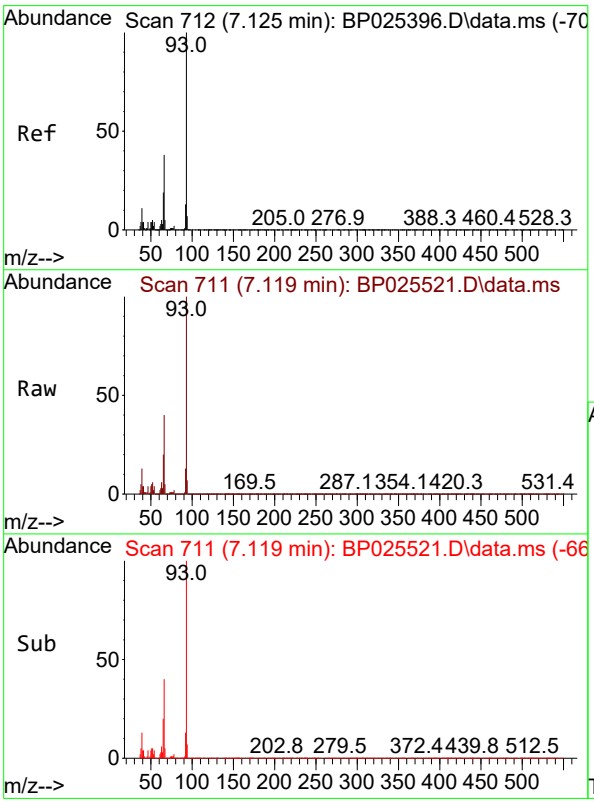
#5
2-Fluorophenol
Concen: 114.824 ng
RT: 5.407 min Scan# 4
Delta R.T. -0.000 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Instrument :
BNA_P
ClientSampleId :
38M-NMSD

Tgt Ion:112 Resp: 1185975

Ion	Ratio	Lower	Upper
112	100		
64	56.1	43.8	65.8
63	29.9	22.7	34.1

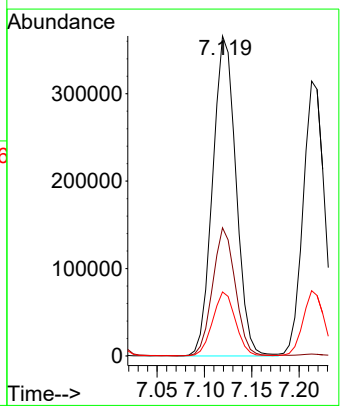


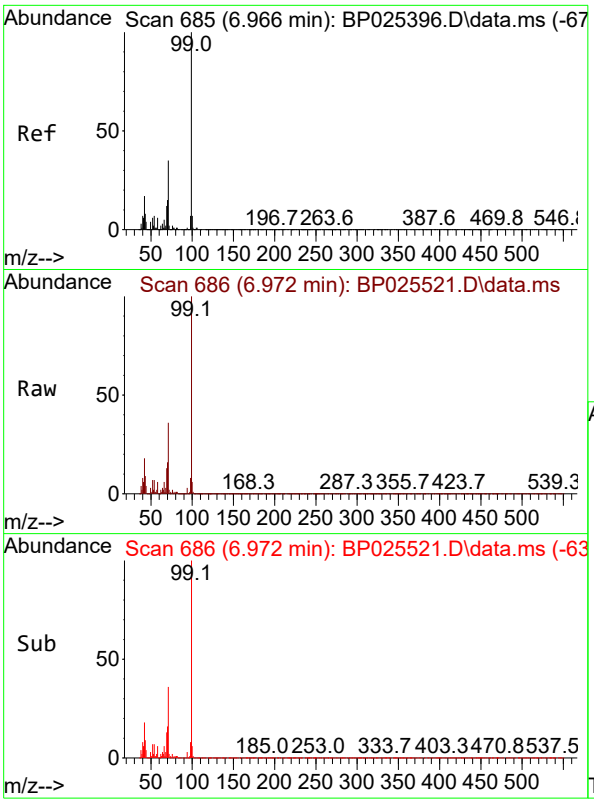


#6
Aniline
Concen: 35.149 ng
RT: 7.119 min Scan# 711
Delta R.T. -0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion: 93 Resp: 627117

Ion	Ratio	Lower	Upper
93	100		
66	40.1	30.4	45.6
65	20.0	15.3	22.9



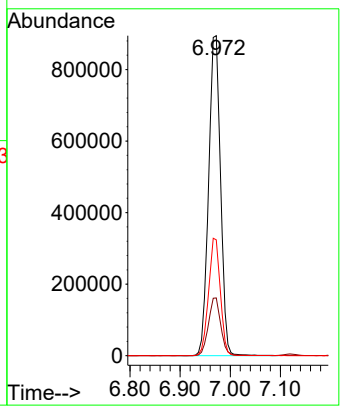


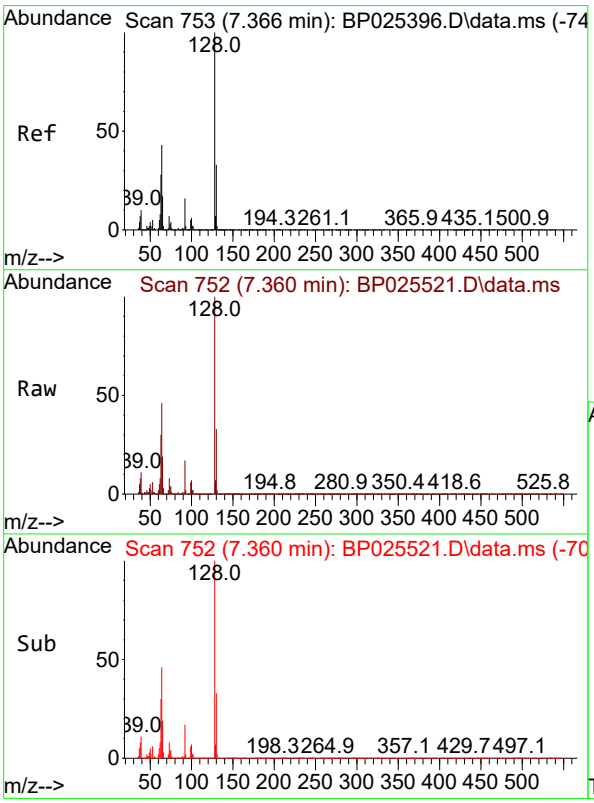
#7
Phenol-d6
Concen: 111.749 ng
RT: 6.972 min Scan# 6
Delta R.T. 0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Instrument :
BNA_P
ClientSampleId :
38M-NMSD

Tgt Ion: 99 Resp: 1479802

Ion	Ratio	Lower	Upper
99	100		
42	18.1	13.7	20.5
71	36.2	28.2	42.4

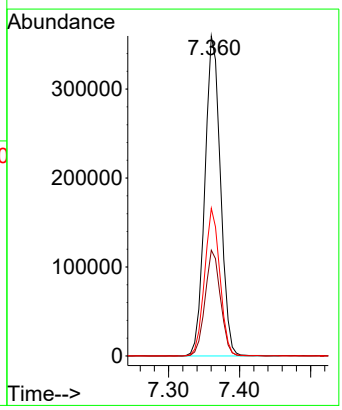


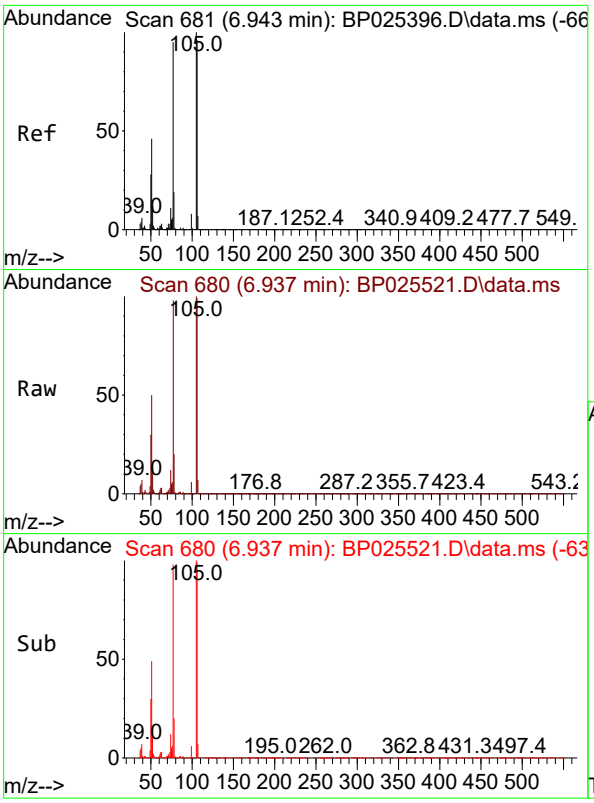


#8
2-Chlorophenol
Concen: 47.160 ng
RT: 7.360 min Scan# 752
Delta R.T. -0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:128 Resp: 549667

Ion	Ratio	Lower	Upper
128	100		
130	33.0	12.6	52.6
64	46.1	23.4	63.4



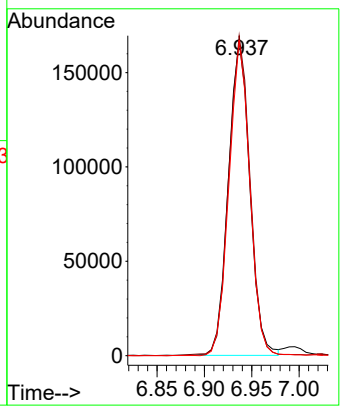


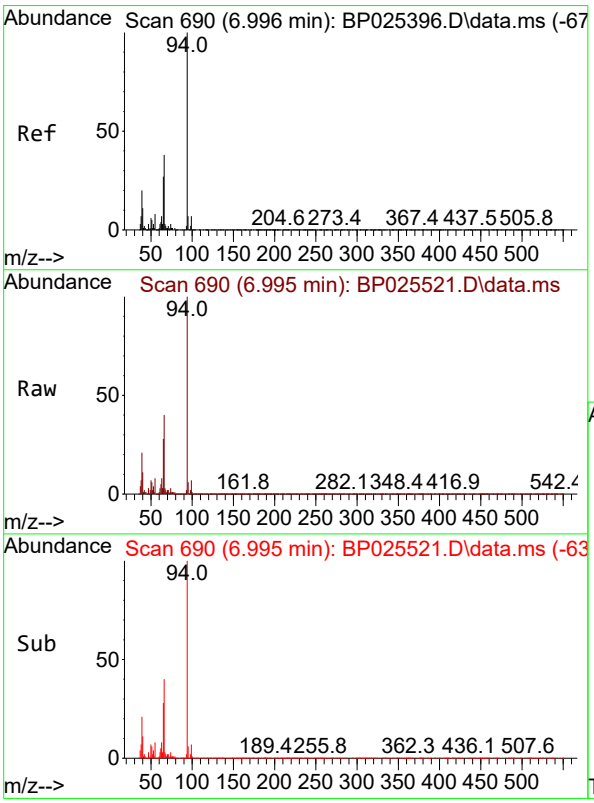
#9
Benzaldehyde
Concen: 28.328 ng
RT: 6.937 min Scan# 6
Delta R.T. -0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Instrument :
BNA_P
ClientSampleId :
38M-NMSD

Tgt Ion: 77 Resp: 262818

Ion	Ratio	Lower	Upper
77	100		
105	101.8	84.8	124.8
106	100.4	80.5	120.5

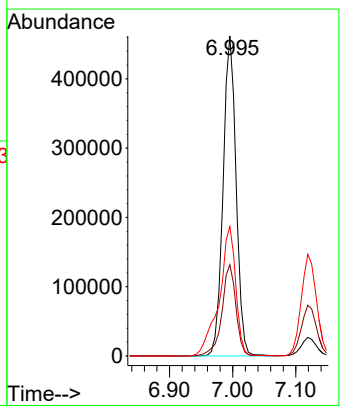


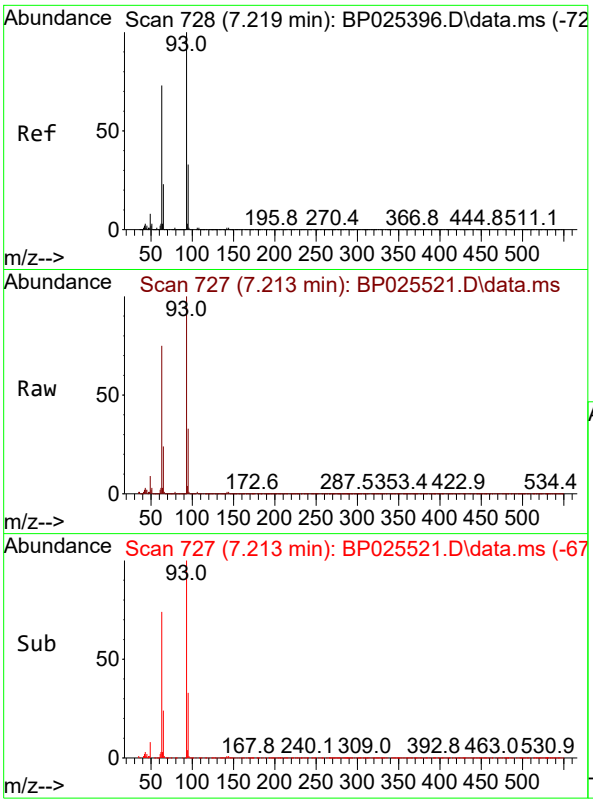


#10
Phenol
Concen: 47.714 ng
RT: 6.995 min Scan# 690
Delta R.T. -0.000 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion: 94 Resp: 662998

Ion	Ratio	Lower	Upper
94	100		
65	28.5	6.8	46.8
66	40.4	18.2	58.2



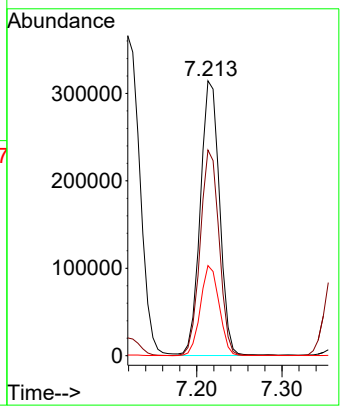


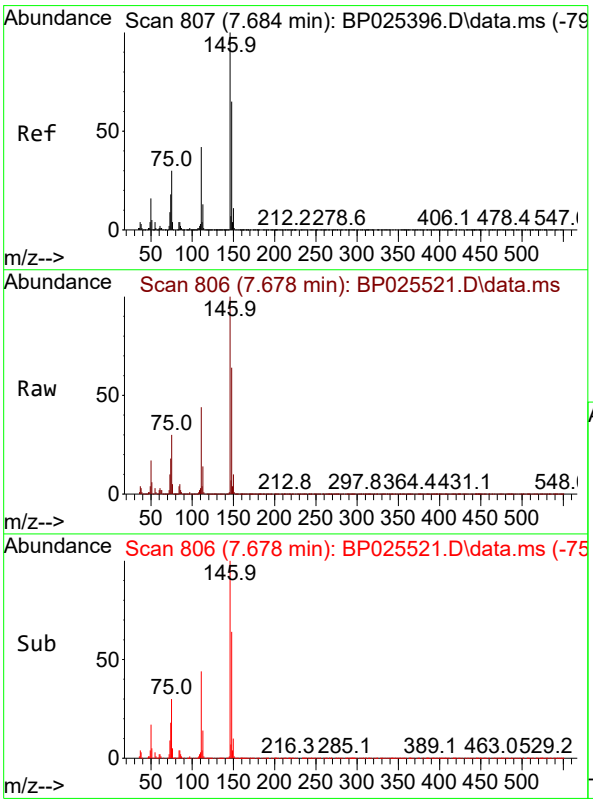
#11
bis(2-Chloroethyl)ether
Concen: 45.488 ng
RT: 7.213 min Scan# 7
Delta R.T. -0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Instrument :
BNA_P
ClientSampleId :
38M-NMSD

Tgt Ion: 93 Resp: 492646

Ion	Ratio	Lower	Upper
93	100		
63	74.8	52.6	92.6
95	32.8	12.7	52.7

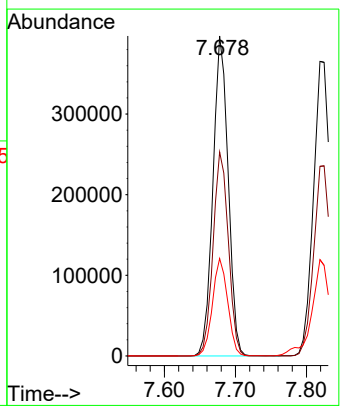


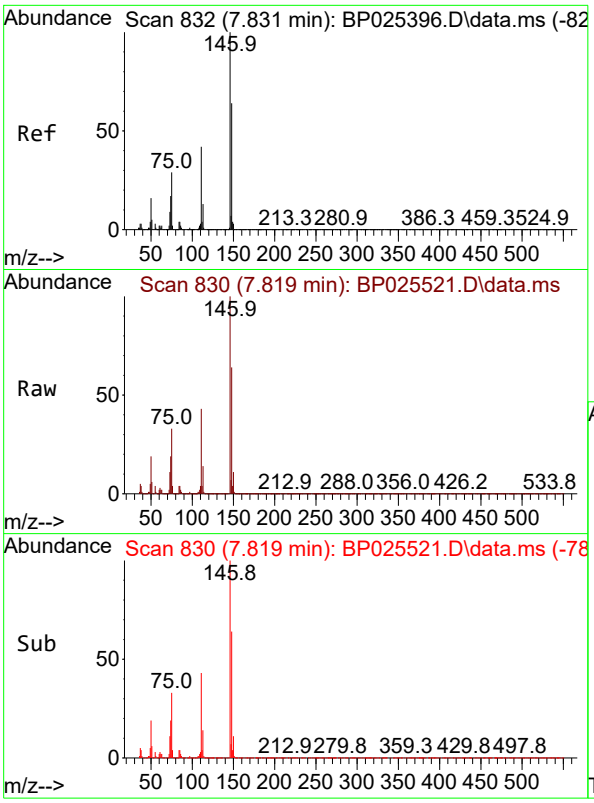


#12
1,3-Dichlorobenzene
Concen: 45.833 ng
RT: 7.678 min Scan# 806
Delta R.T. -0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:146 Resp: 589038

Ion	Ratio	Lower	Upper
146	100		
148	63.7	51.9	77.9
75	30.5	23.7	35.5



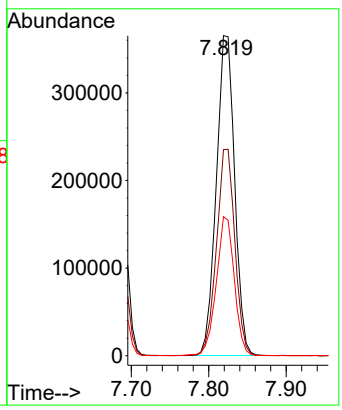


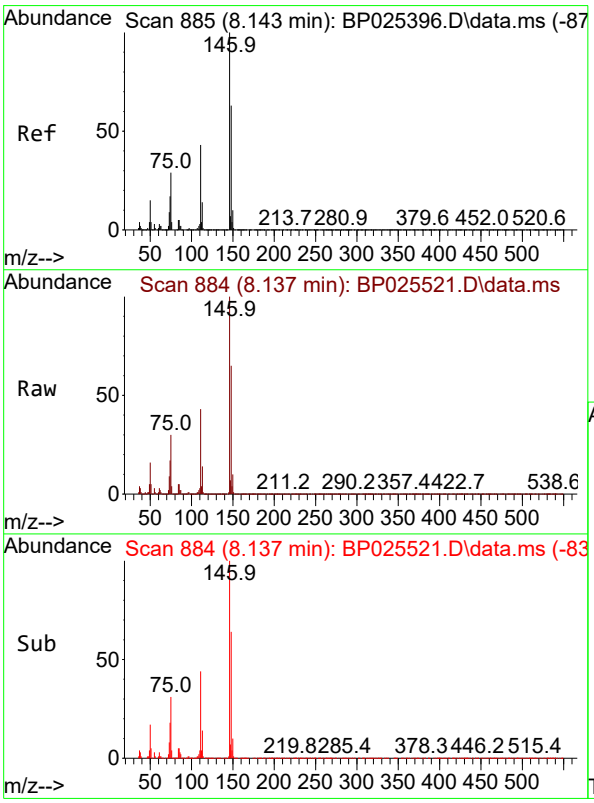
#13
1,4-Dichlorobenzene
Concen: 45.823 ng
RT: 7.819 min Scan# 8
Delta R.T. -0.012 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Instrument :
BNA_P
ClientSampleId :
38M-NMSD

Tgt Ion:146 Resp: 601939

Ion	Ratio	Lower	Upper
146	100		
148	64.4	51.6	77.4
111	43.5	33.4	50.0

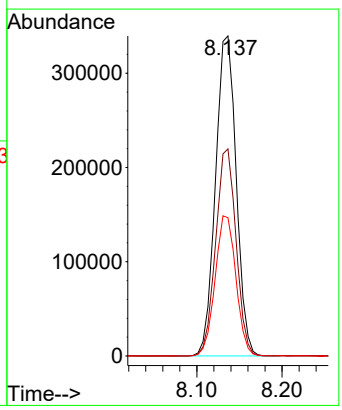


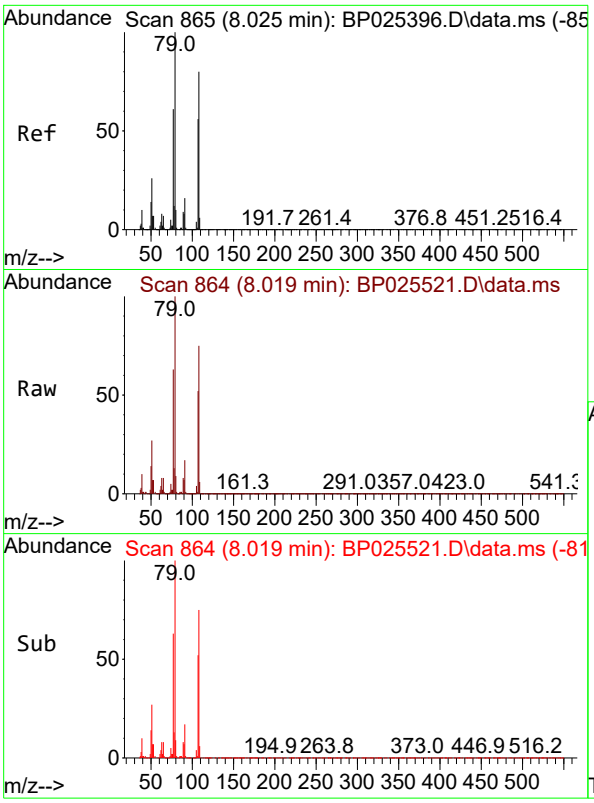


#14
1,2-Dichlorobenzene
Concen: 45.156 ng
RT: 8.137 min Scan# 884
Delta R.T. -0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:146 Resp: 574205

Ion	Ratio	Lower	Upper
146	100		
148	64.7	50.4	75.6
111	43.2	34.5	51.7



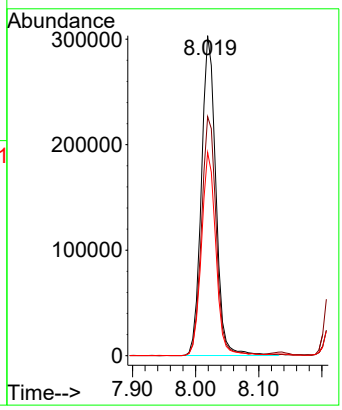


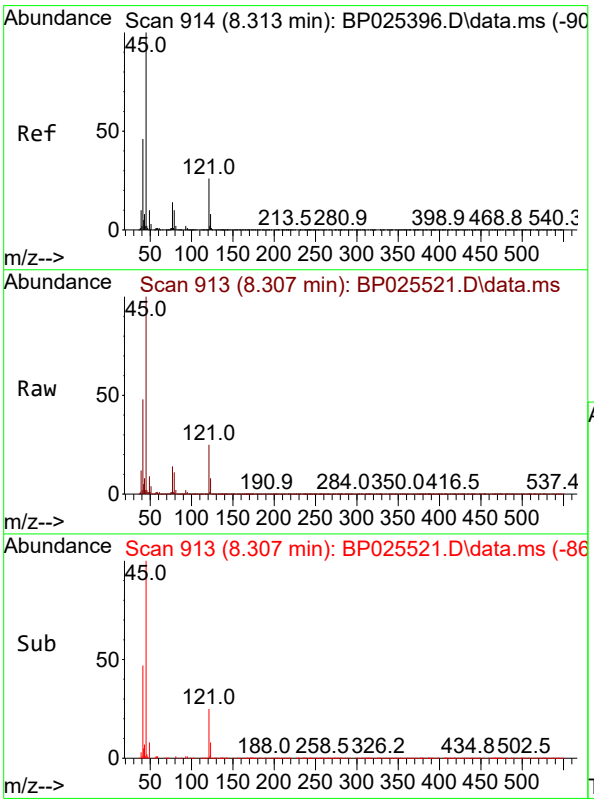
#15
Benzyl Alcohol
Concen: 45.871 ng
RT: 8.019 min Scan# 8
Delta R.T. -0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Instrument :
BNA_P
ClientSampleId :
38M-NMSD

Tgt Ion: 79 Resp: 482640

Ion	Ratio	Lower	Upper
79	100		
108	74.7	63.8	95.6
77	63.5	49.0	73.4

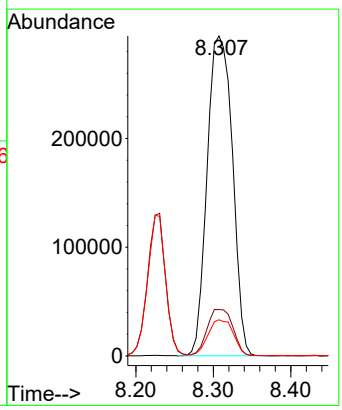


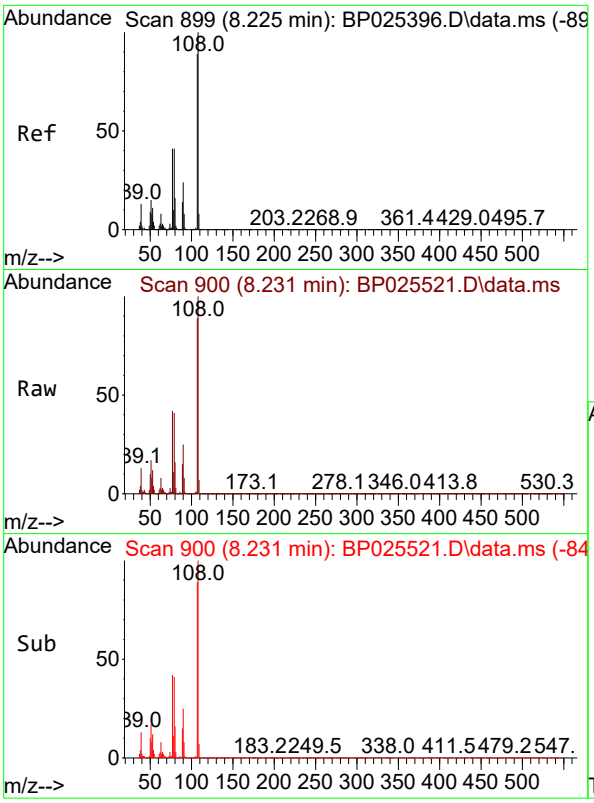


#16
2,2'-oxybis(1-Chloropropane)
Concen: 45.986 ng
RT: 8.307 min Scan# 913
Delta R.T. -0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion: 45 Resp: 667168

Ion	Ratio	Lower	Upper
45	100		
77	14.5	0.0	35.3
79	11.3	0.0	31.8



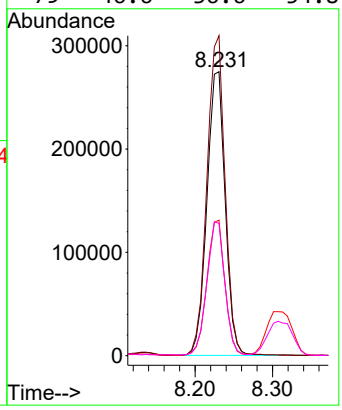


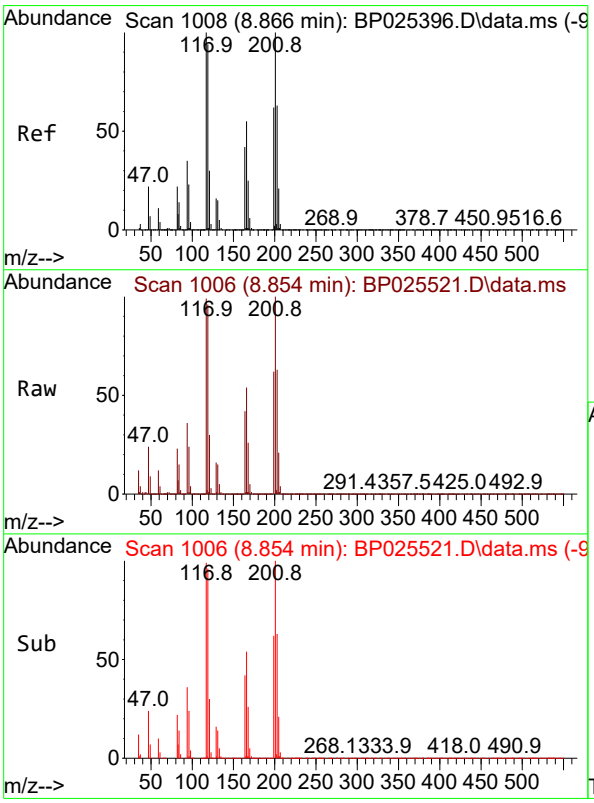
#17
2-Methylphenol
Concen: 46.583 ng
RT: 8.231 min Scan# 9
Delta R.T. 0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Instrument :
BNA_P
ClientSampleId :
38M-NMSD

Tgt Ion:107 Resp: 449551

Ion	Ratio	Lower	Upper
107	100		
108	112.7	89.4	134.0
77	47.7	36.3	54.5
79	46.6	36.6	54.8

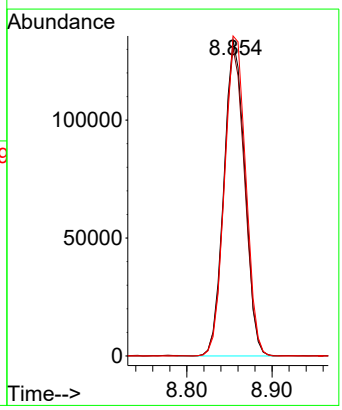


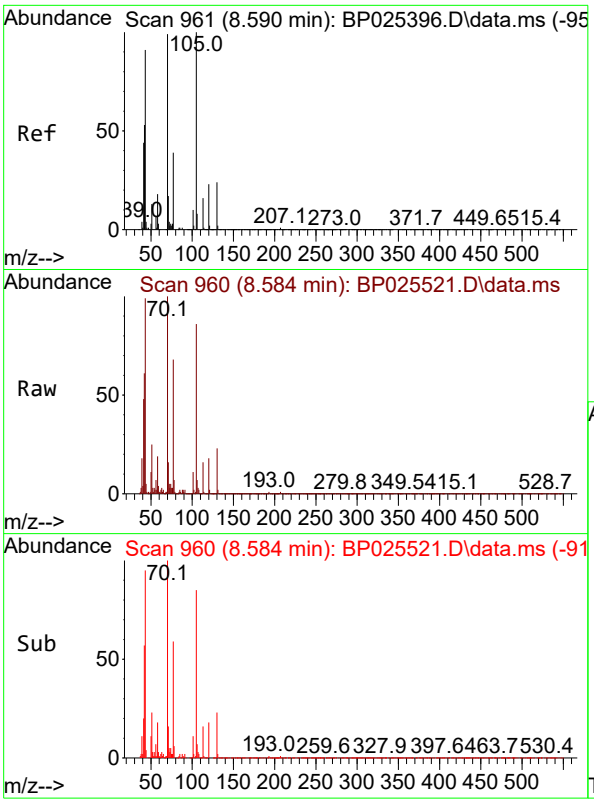


#18
Hexachloroethane
Concen: 47.330 ng
RT: 8.854 min Scan# 1006
Delta R.T. -0.012 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:117 Resp: 228597

Ion	Ratio	Lower	Upper
117	100		
119	97.5	75.1	112.7
201	101.4	80.1	120.1



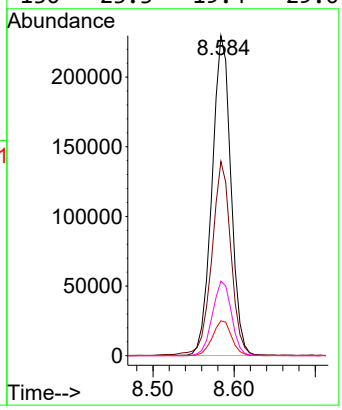


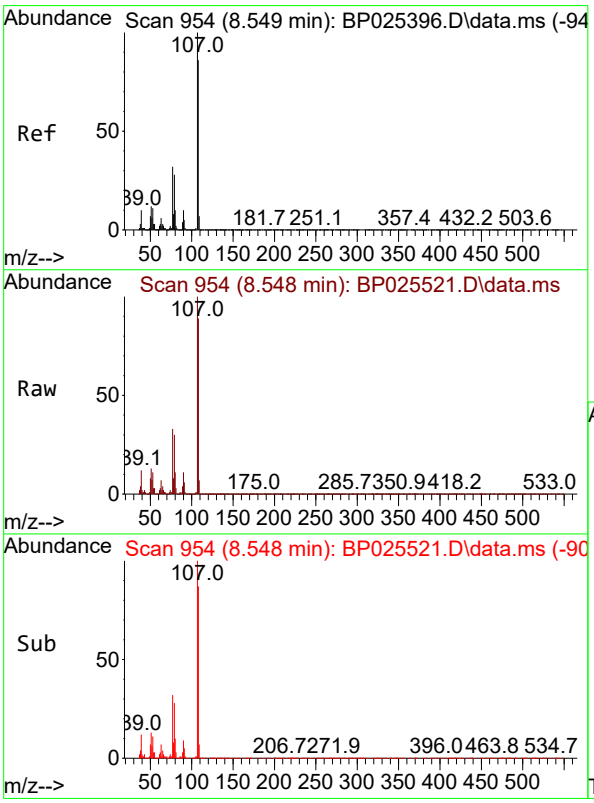
#19
n-Nitroso-di-n-propylamine
Concen: 42.346 ng
RT: 8.584 min Scan# 9
Delta R.T. -0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Instrument :
BNA_P
ClientSampleId :
38M-NMSD

Tgt Ion: 70 Resp: 371432

Ion	Ratio	Lower	Upper
70	100		
42	60.7	43.8	65.6
101	10.9	8.5	12.7
130	23.3	19.4	29.0

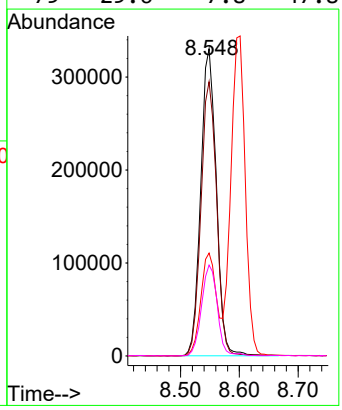


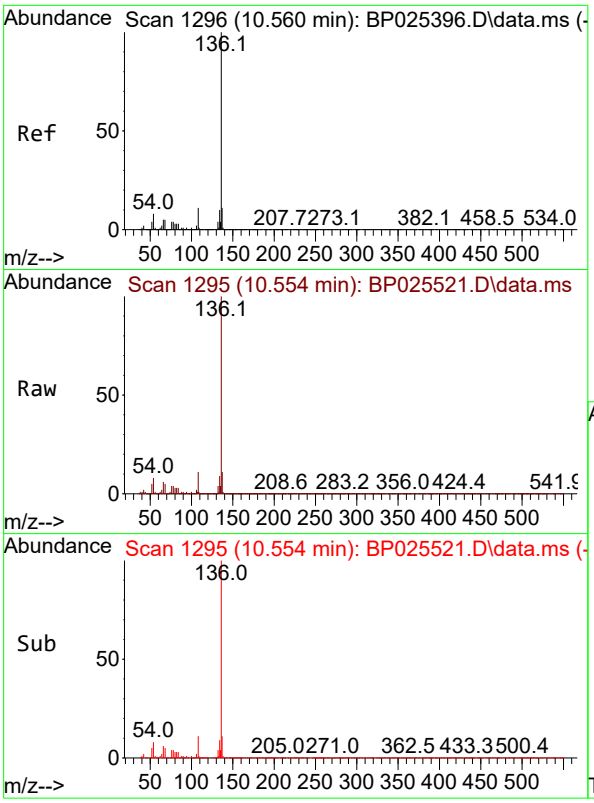


#20
3+4-Methylphenols
Concen: 45.351 ng
RT: 8.548 min Scan# 954
Delta R.T. -0.000 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:107 Resp: 606668

Ion	Ratio	Lower	Upper
107	100		
108	89.3	66.3	106.3
77	33.5	12.3	52.3
79	29.6	7.8	47.8



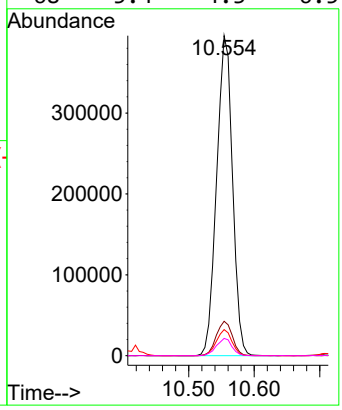


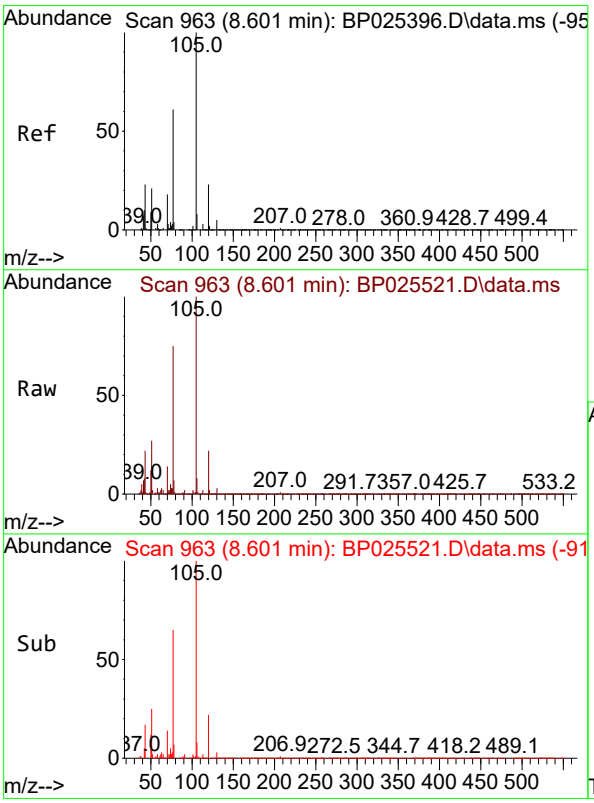
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.554 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Instrument :
BNA_P
ClientSampleId :
38M-NMSD

Tgt Ion:136 Resp: 663397

Ion	Ratio	Lower	Upper
136	100		
137	10.8	9.2	13.8
54	8.2	6.0	9.0
68	5.4	4.3	6.5

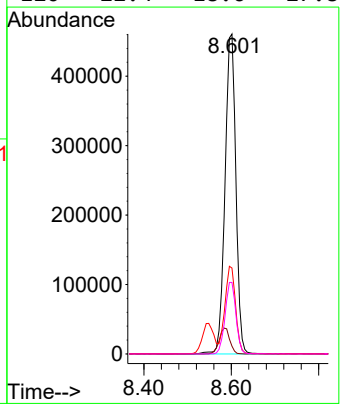


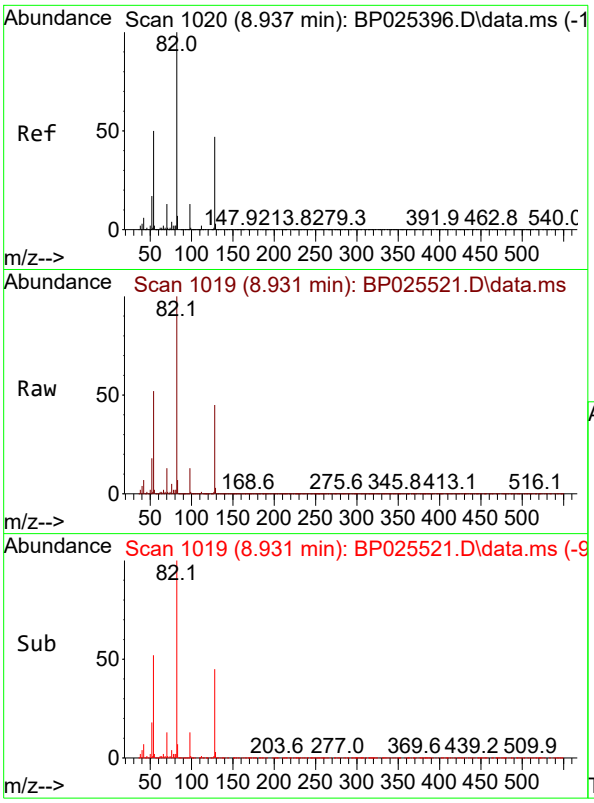


#22
Acetophenone
Concen: 47.423 ng
RT: 8.601 min Scan# 963
Delta R.T. -0.000 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:105 Resp: 788958

Ion	Ratio	Lower	Upper
105	100		
71	2.5	2.6	4.0#
51	26.8	20.6	30.8
120	22.4	18.6	27.8



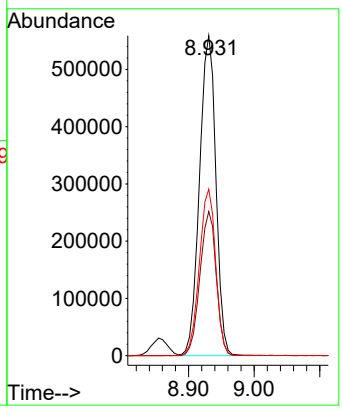


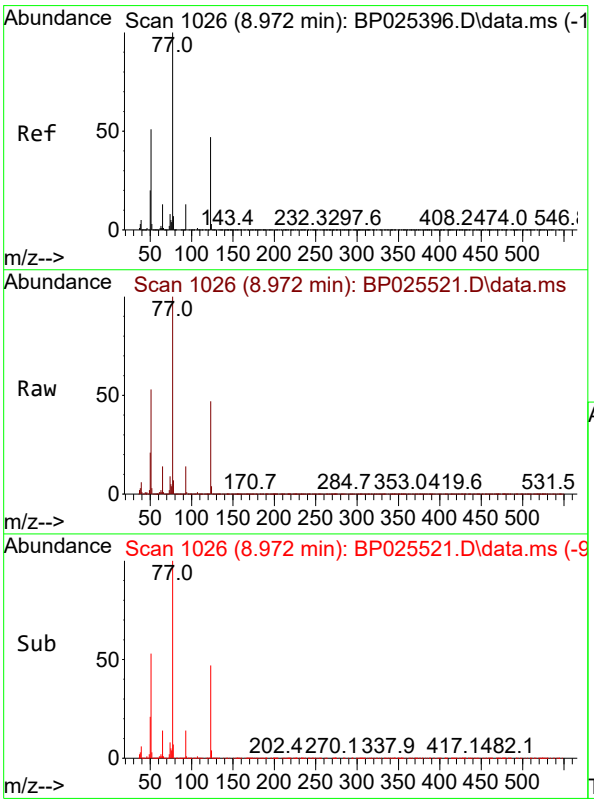
#23
Nitrobenzene-d5
Concen: 74.076 ng
RT: 8.931 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Instrument :
BNA_P
ClientSampleId :
38M-NMSD

Tgt Ion: 82 Resp: 971459

Ion	Ratio	Lower	Upper
82	100		
128	45.0	37.7	56.5
54	52.0	39.8	59.6

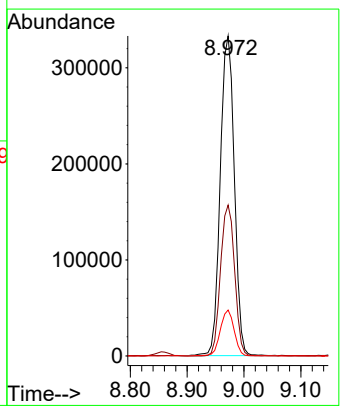


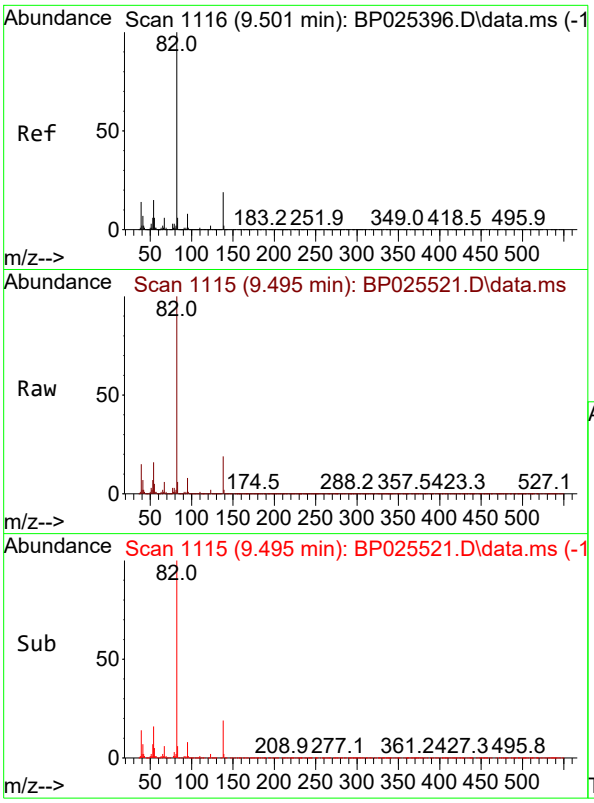


#24
Nitrobenzene
Concen: 49.009 ng
RT: 8.972 min Scan# 1026
Delta R.T. -0.000 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion: 77 Resp: 574414

Ion	Ratio	Lower	Upper
77	100		
123	47.2	38.6	58.0
65	14.4	10.6	15.8



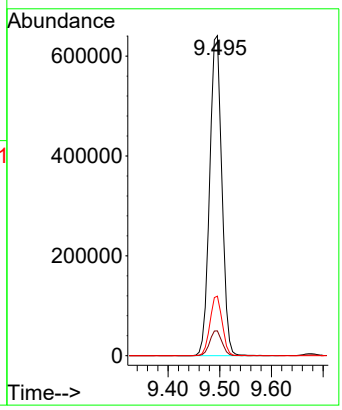


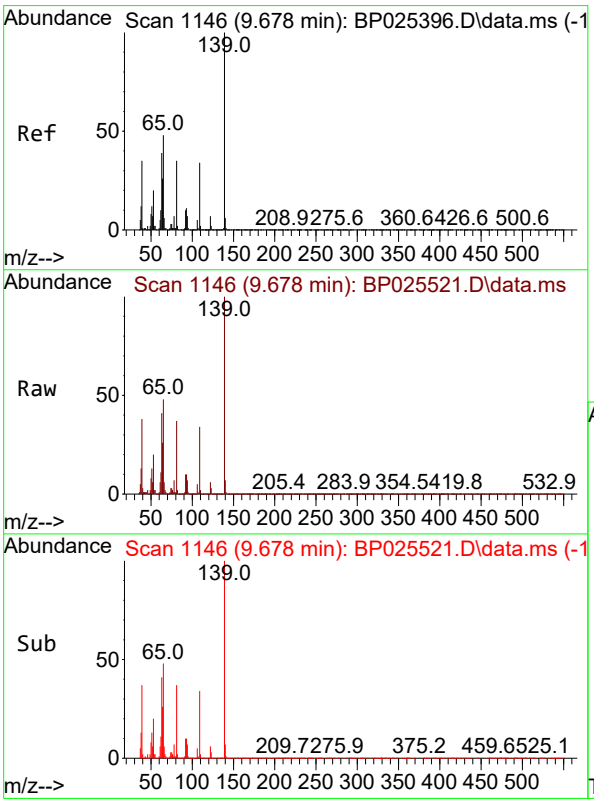
#25
Isophorone
Concen: 45.292 ng
RT: 9.495 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Instrument :
BNA_P
ClientSampleId :
38M-NMSD

Tgt Ion: 82 Resp: 1051182

Ion	Ratio	Lower	Upper
82	100		
95	7.8	6.4	9.6
138	18.6	15.4	23.0

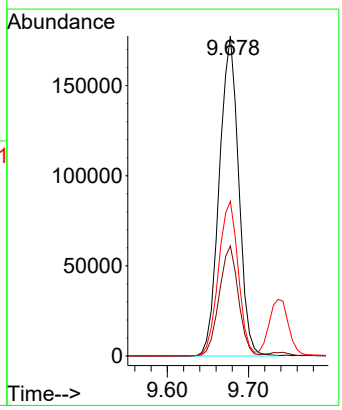


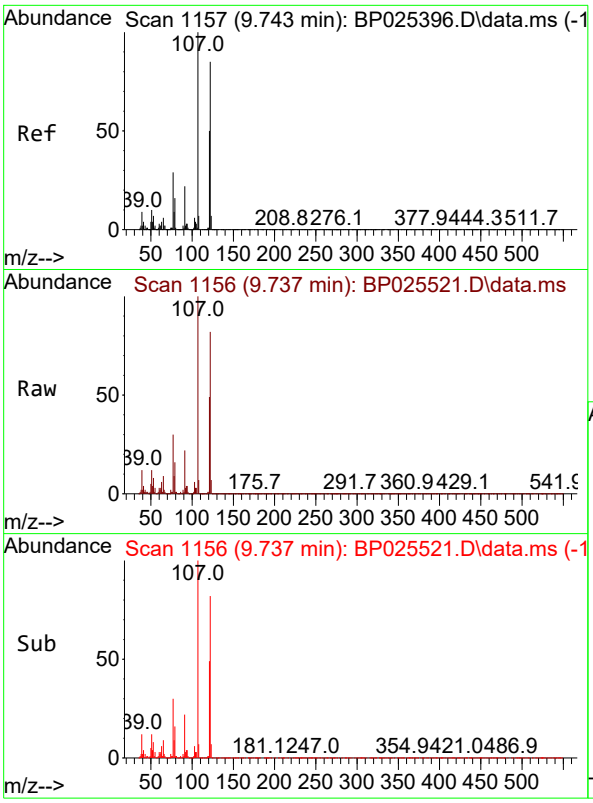


#26
2-Nitrophenol
Concen: 48.831 ng
RT: 9.678 min Scan# 1146
Delta R.T. -0.000 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:139 Resp: 293717

Ion	Ratio	Lower	Upper
139	100		
109	34.4	26.9	40.3
65	48.3	38.3	57.5



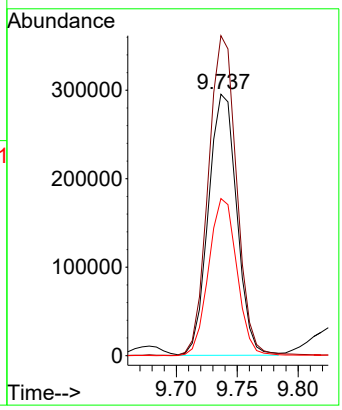


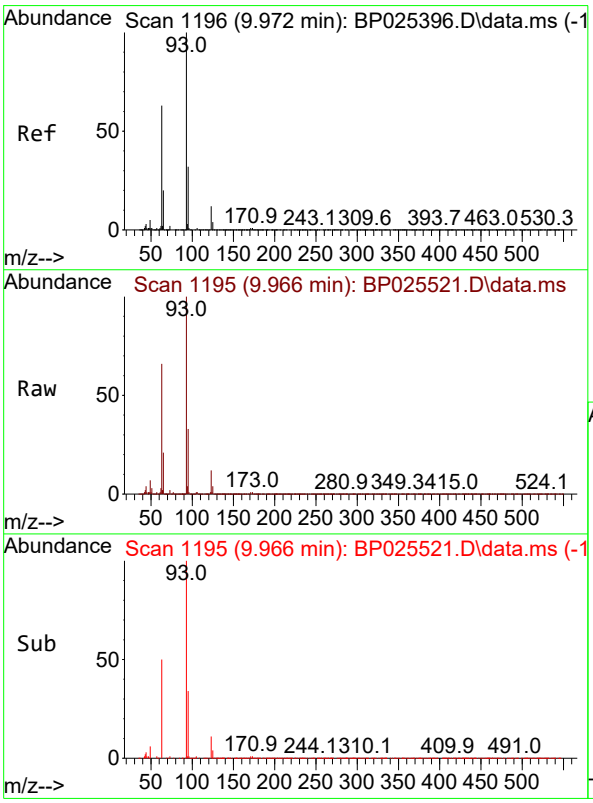
#27
2,4-Dimethylphenol
Concen: 46.353 ng
RT: 9.737 min Scan# 11
Delta R.T. -0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Instrument :
BNA_P
ClientSampleId :
38M-NMSD

Tgt Ion:122 Resp: 479485

Ion	Ratio	Lower	Upper
122	100		
107	122.4	93.7	140.5
121	60.1	46.6	69.8

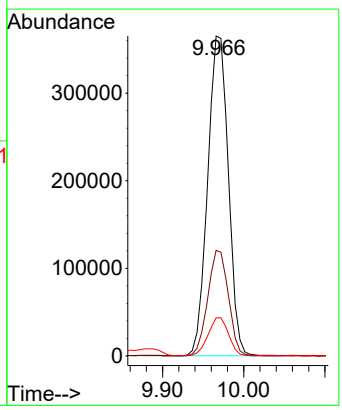


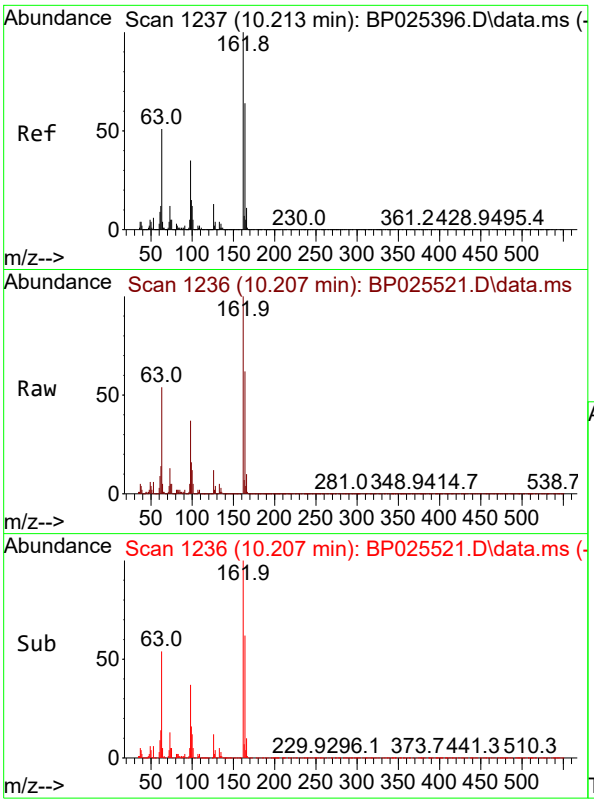


#28
bis(2-Chloroethoxy)methane
Concen: 46.047 ng
RT: 9.966 min Scan# 1195
Delta R.T. -0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion: 93 Resp: 646011

Ion	Ratio	Lower	Upper
93	100		
95	33.0	25.4	38.0
123	11.9	9.4	14.0



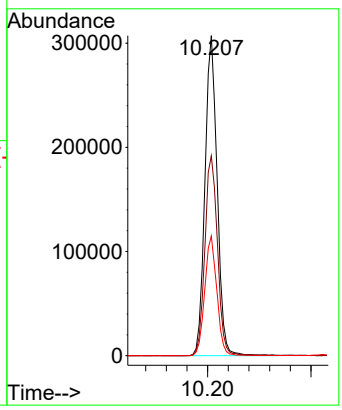


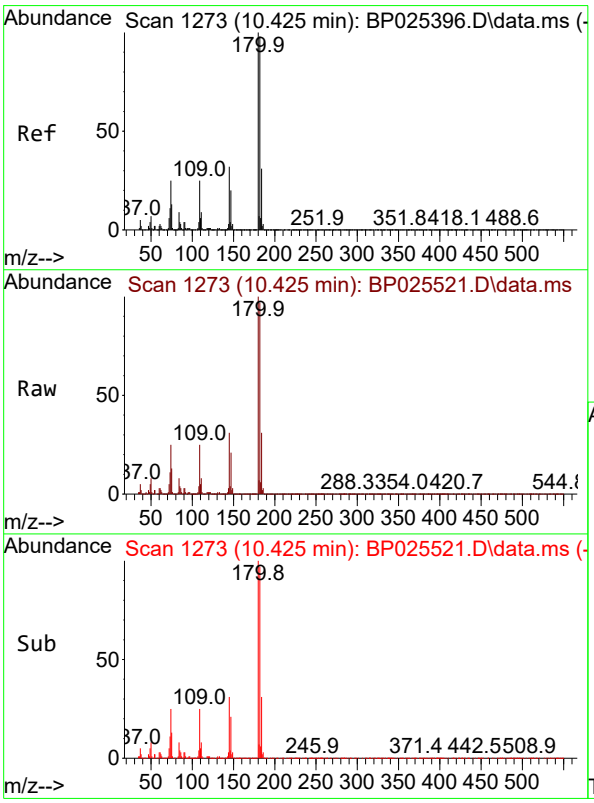
#29
2,4-Dichlorophenol
Concen: 49.050 ng
RT: 10.207 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Instrument :
BNA_P
ClientSampleId :
38M-NMSD

Tgt Ion:162 Resp: 504018

Ion	Ratio	Lower	Upper
162	100		
164	62.4	44.4	84.4
98	37.4	14.9	54.9

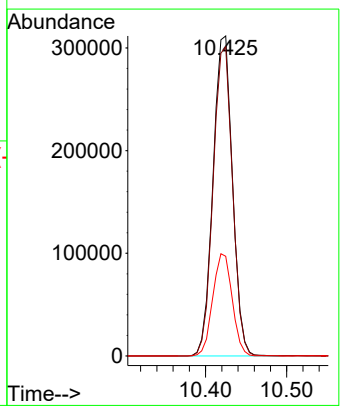


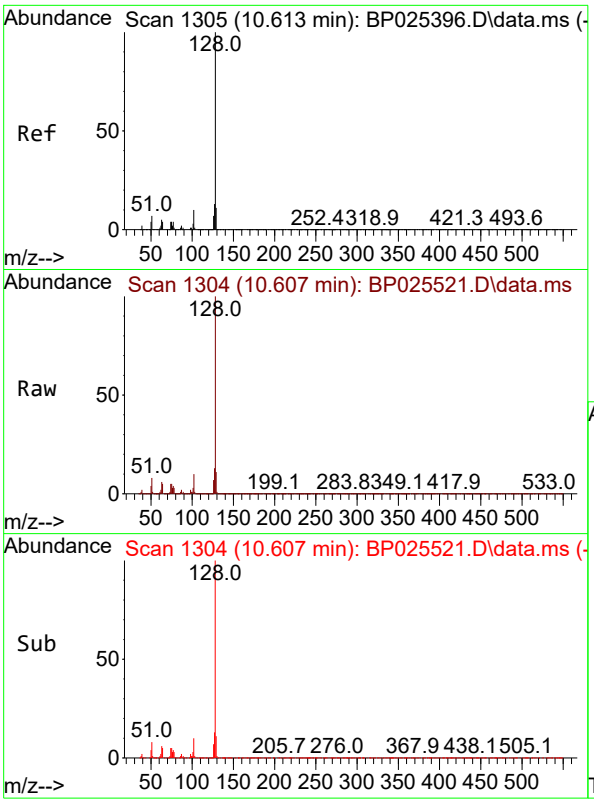


#30
1,2,4-Trichlorobenzene
Concen: 46.078 ng
RT: 10.425 min Scan# 1273
Delta R.T. -0.000 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:180 Resp: 519037

Ion	Ratio	Lower	Upper
180	100		
182	96.6	78.0	117.0
145	31.1	25.9	38.9



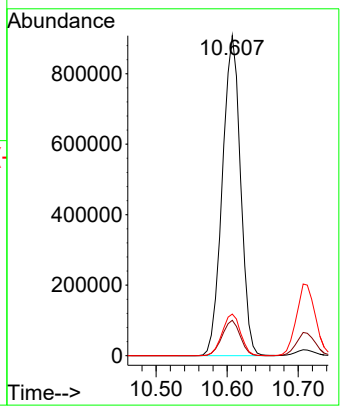


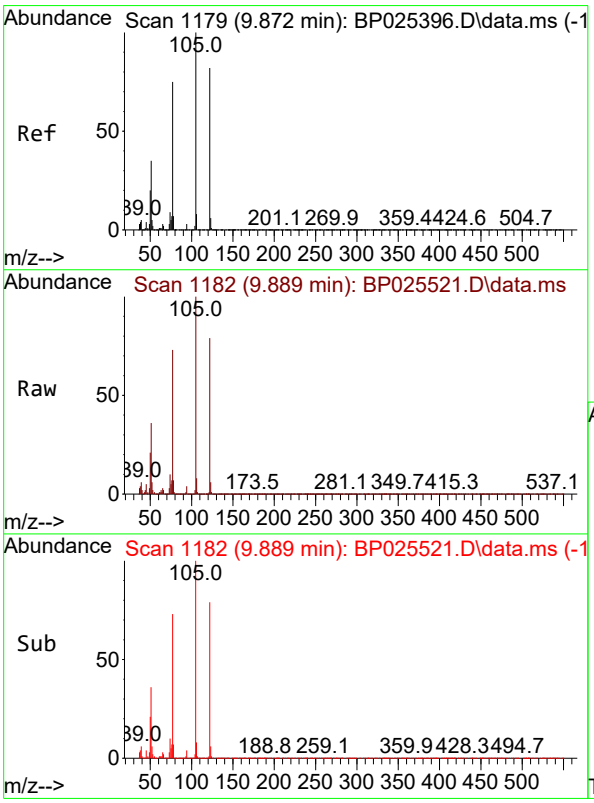
#31
Naphthalene
Concen: 46.690 ng
RT: 10.607 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Instrument :
BNA_P
ClientSampleId :
38M-NMSD

Tgt Ion:128 Resp: 1609899

Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.6	13.0
127	13.0	10.7	16.1

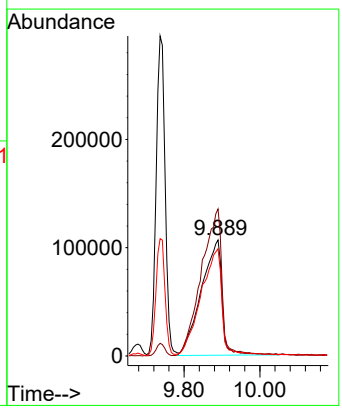


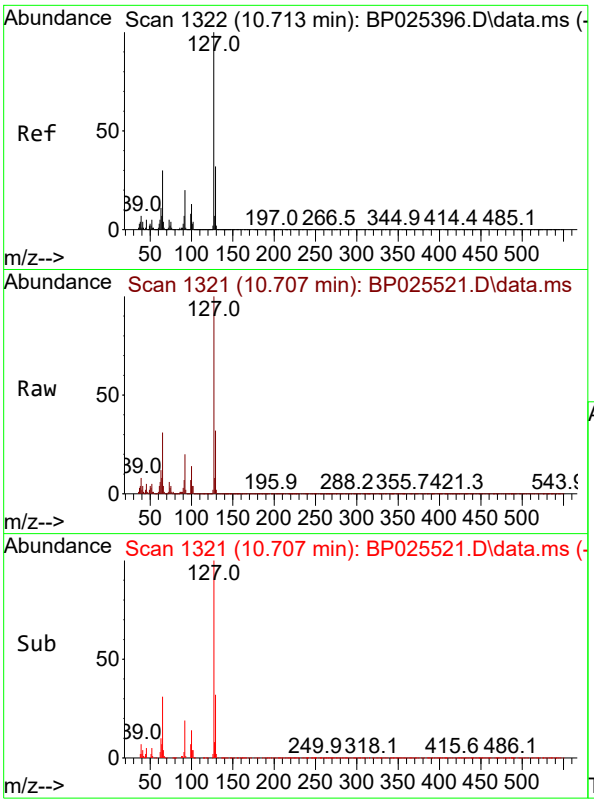


#32
Benzoic acid
Concen: 52.997 ng
RT: 9.889 min Scan# 1182
Delta R.T. 0.017 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:122 Resp: 404729

Ion	Ratio	Lower	Upper
122	100		
105	126.8	100.6	140.6
77	92.4	71.5	111.5



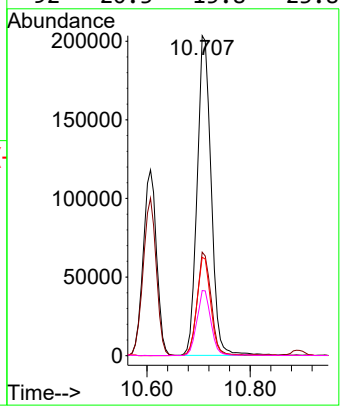


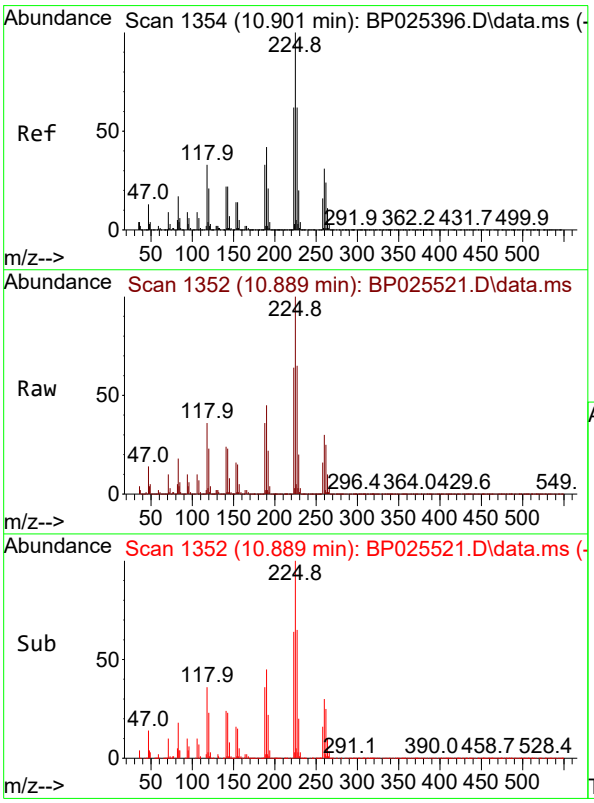
#33
4-Chloroaniline
Concen: 25.145 ng
RT: 10.707 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Instrument :
BNA_P
ClientSampleId :
38M-NMSD

Tgt Ion:127 Resp: 382975

Ion	Ratio	Lower	Upper
127	100		
129	32.3	25.4	38.2
65	30.7	23.8	35.6
92	20.3	15.8	23.8

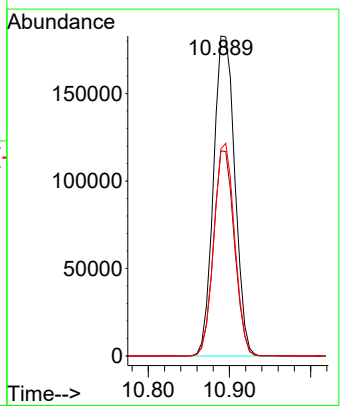


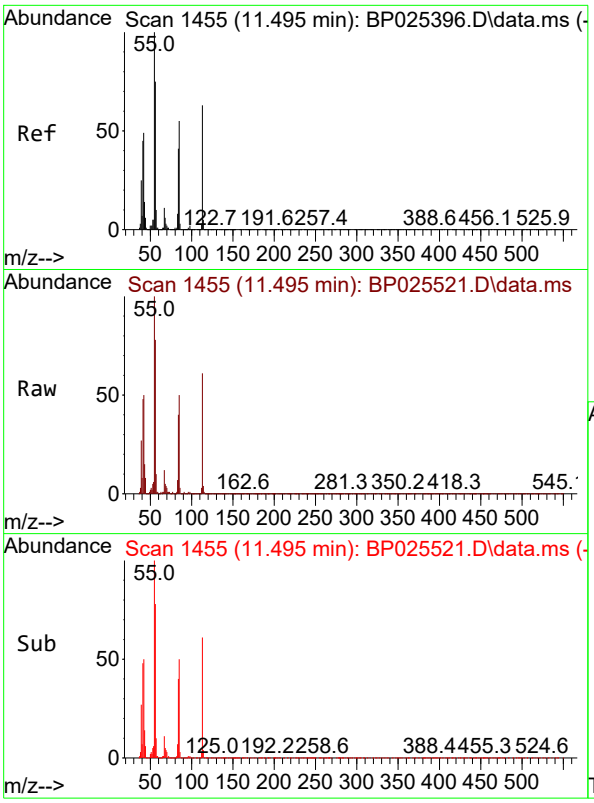


#34
Hexachlorobutadiene
Concen: 47.571 ng
RT: 10.889 min Scan# 1352
Delta R.T. -0.012 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:225 Resp: 333721

Ion	Ratio	Lower	Upper
225	100		
223	64.1	50.0	75.0
227	64.7	49.7	74.5



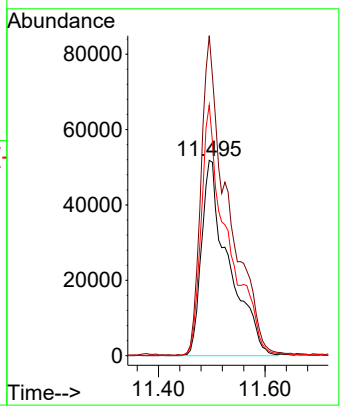


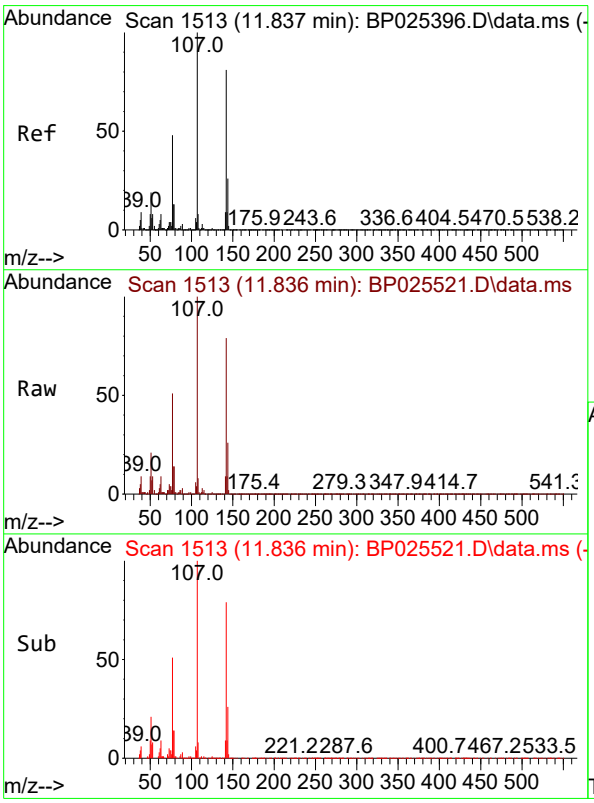
#35
Caprolactam
Concen: 48.674 ng
RT: 11.495 min Scan# 14
Delta R.T. -0.000 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Instrument :
BNA_P
ClientSampleId :
38M-NMSD

Tgt Ion:113 Resp: 183400

Ion	Ratio	Lower	Upper
113	100		
55	163.9	140.0	180.0
56	128.4	100.0	140.0

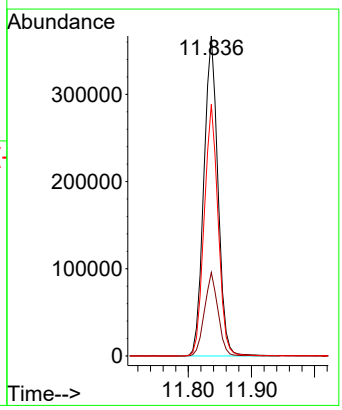


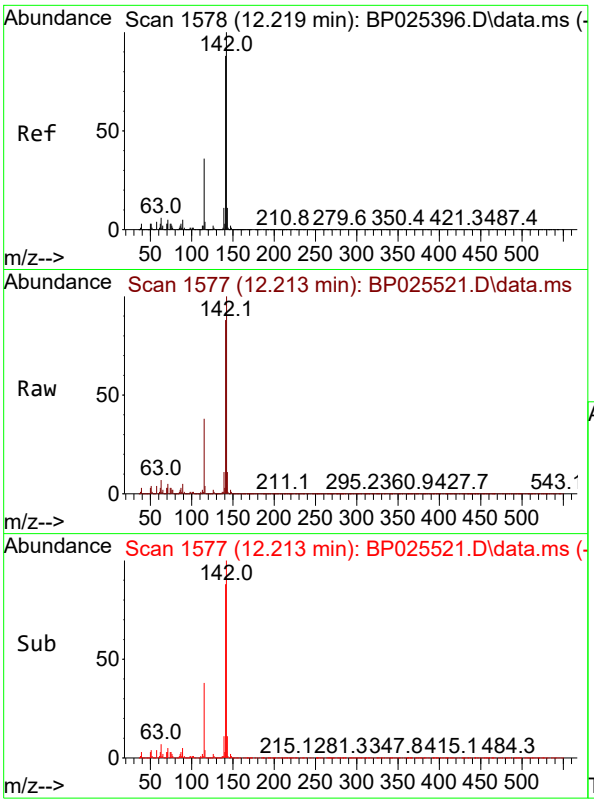


#36
4-Chloro-3-methylphenol
Concen: 48.142 ng
RT: 11.836 min Scan# 1513
Delta R.T. -0.000 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:107 Resp: 567653

Ion	Ratio	Lower	Upper
107	100		
144	26.1	21.0	31.4
142	78.6	64.6	97.0



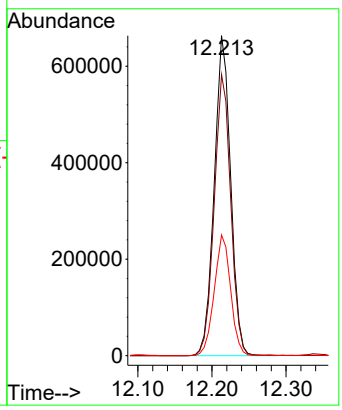


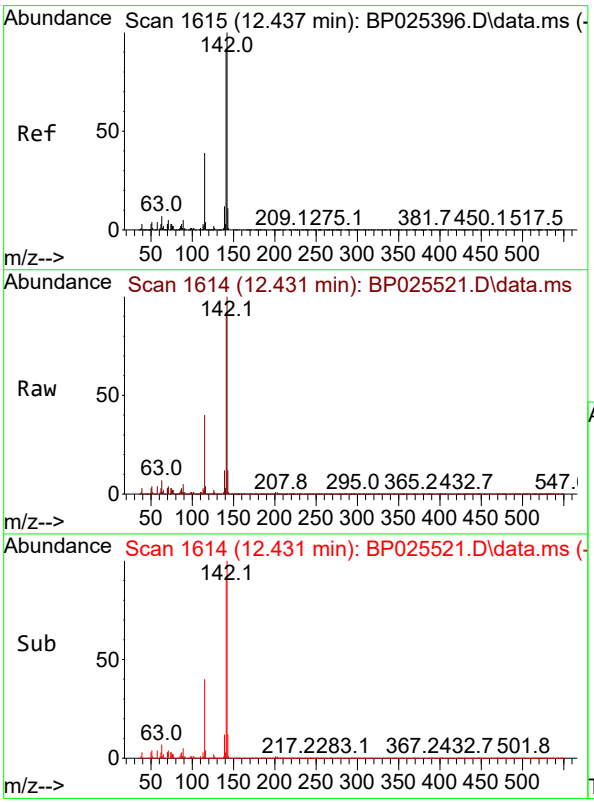
#37
2-Methylnaphthalene
Concen: 45.424 ng
RT: 12.213 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Instrument :
BNA_P
ClientSampleId :
38M-NMSD

Tgt Ion:142 Resp: 1019268

Ion	Ratio	Lower	Upper
142	100		
141	87.9	70.3	105.5
115	37.7	28.9	43.3

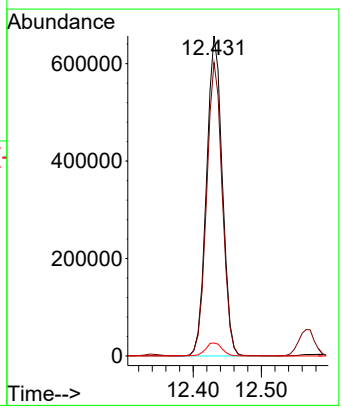


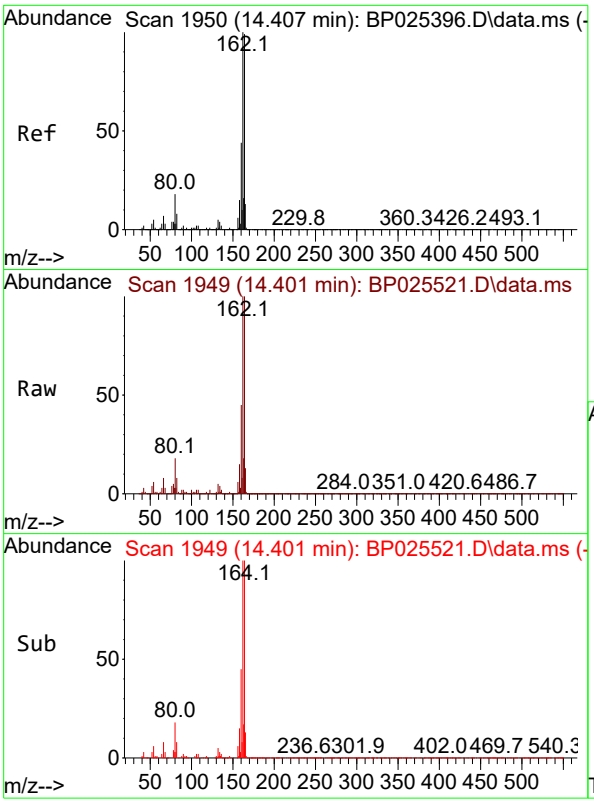


#38
1-Methylnaphthalene
Concen: 44.241 ng
RT: 12.431 min Scan# 1614
Delta R.T. -0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:142 Resp: 1055711

Ion	Ratio	Lower	Upper
142	100		
141	91.7	73.1	109.7
116	4.0	3.2	4.8



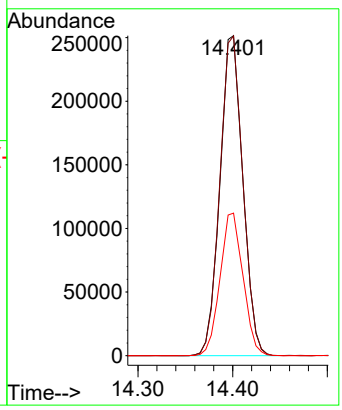


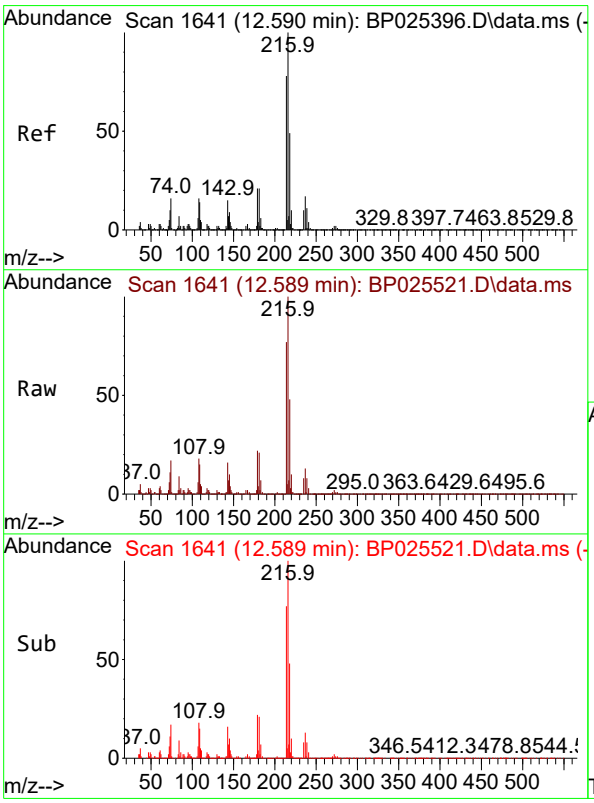
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.401 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Instrument :
BNA_P
ClientSampleId :
38M-NMSD

Tgt Ion:164 Resp: 422830

Ion	Ratio	Lower	Upper
164	100		
162	99.9	81.0	121.6
160	44.5	35.4	53.2

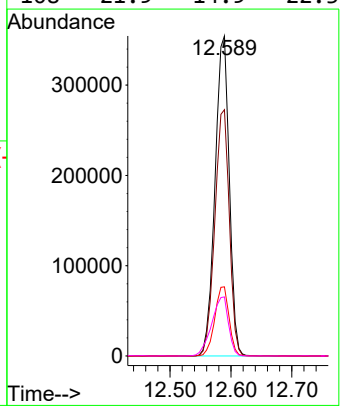


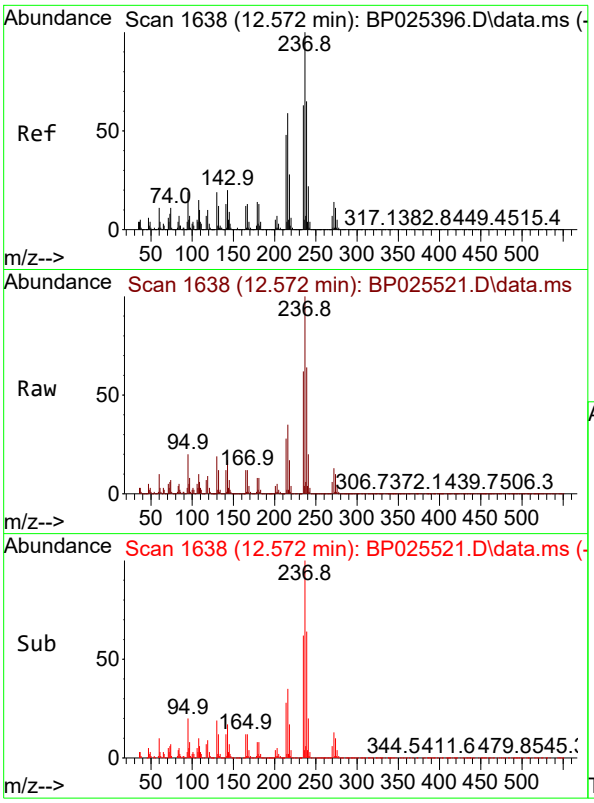


#40
1,2,4,5-Tetrachlorobenzene
Concen: 47.117 ng
RT: 12.589 min Scan# 1641
Delta R.T. -0.000 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:216 Resp: 575385

Ion	Ratio	Lower	Upper
216	100		
214	78.4	63.0	94.4
179	21.7	17.1	25.7
108	21.9	14.9	22.3



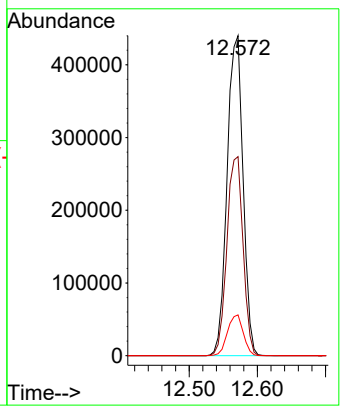


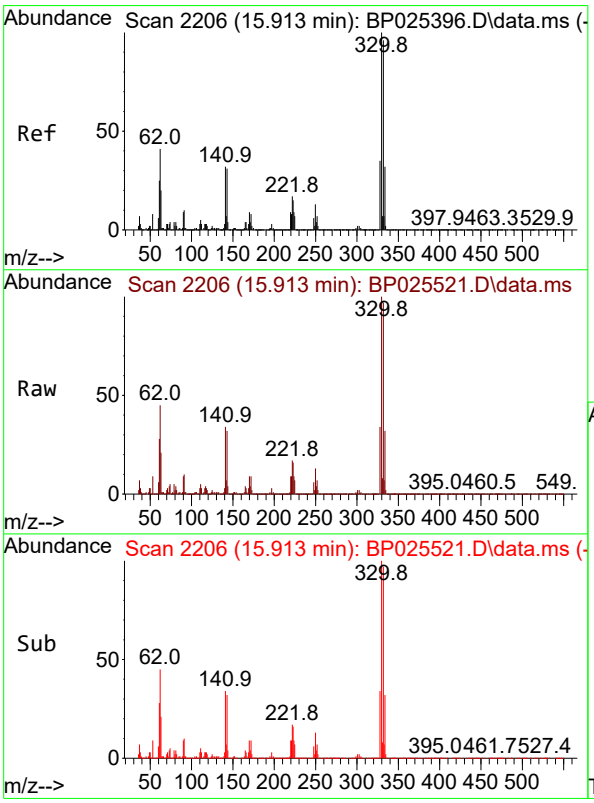
#41
Hexachlorocyclopentadiene
Concen: 96.973 ng
RT: 12.572 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Instrument :
BNA_P
ClientSampleId :
38M-NMSD

Tgt Ion:237 Resp: 715312

Ion	Ratio	Lower	Upper
237	100		
235	62.2	42.7	82.7
272	12.8	0.0	34.0

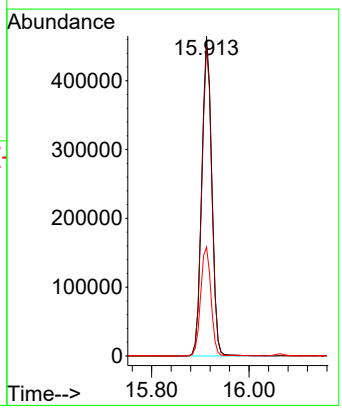


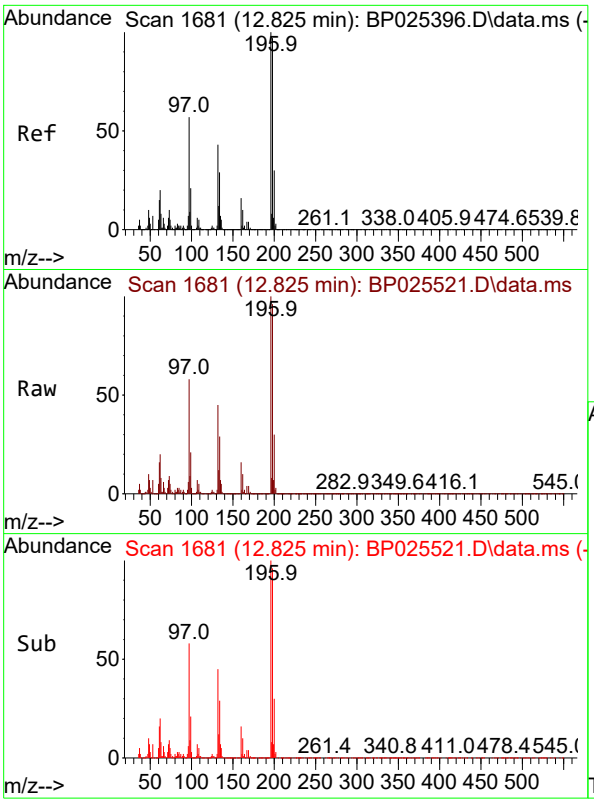


#42
2,4,6-Tribromophenol
Concen: 116.255 ng
RT: 15.913 min Scan# 2206
Delta R.T. -0.000 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:330 Resp: 661648

Ion	Ratio	Lower	Upper
330	100		
332	97.1	77.3	115.9
141	35.1	26.6	39.8



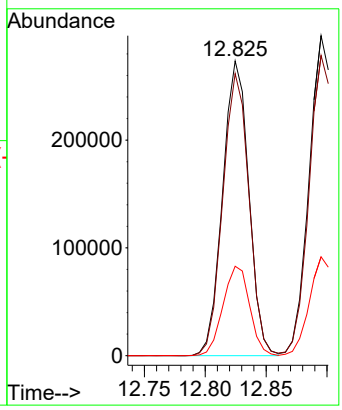


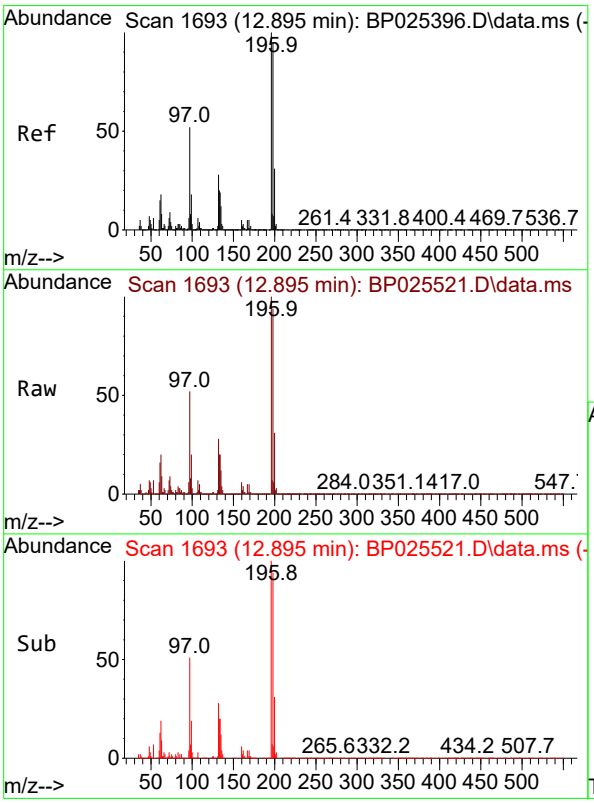
#43
2,4,6-Trichlorophenol
Concen: 49.699 ng
RT: 12.825 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Instrument :
BNA_P
ClientSampleId :
38M-NMSD

Tgt Ion:196 Resp: 409731

Ion	Ratio	Lower	Upper
196	100		
198	95.7	77.2	115.8
200	30.4	23.9	35.9

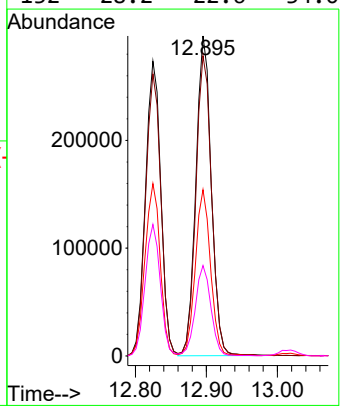


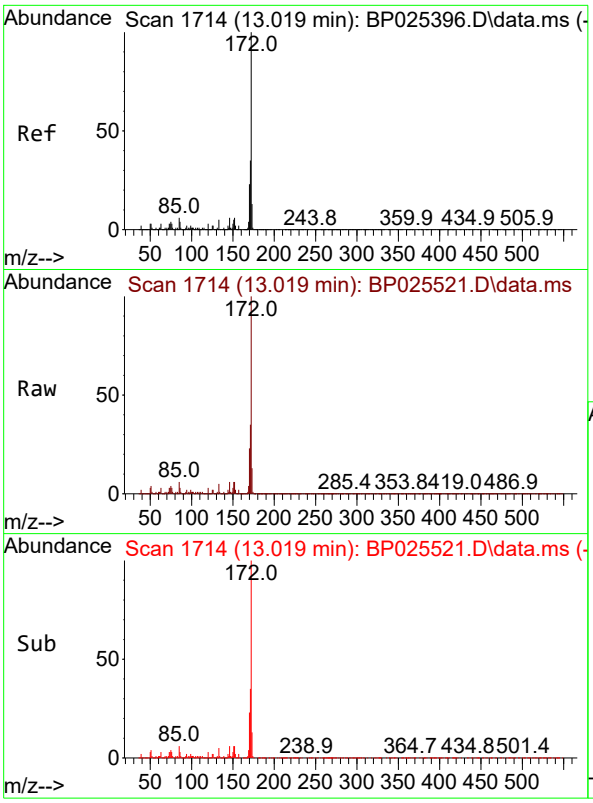


#44
2,4,5-Trichlorophenol
Concen: 49.780 ng
RT: 12.895 min Scan# 1693
Delta R.T. -0.000 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:196 Resp: 449793

Ion	Ratio	Lower	Upper
196	100		
198	93.8	76.2	114.2
97	51.9	41.2	61.8
132	28.2	22.6	34.0



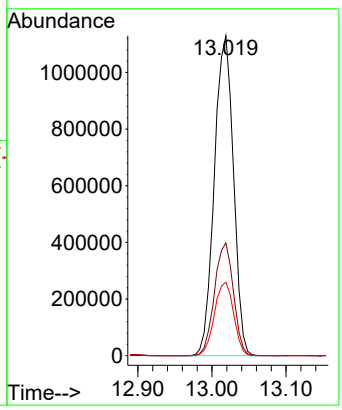


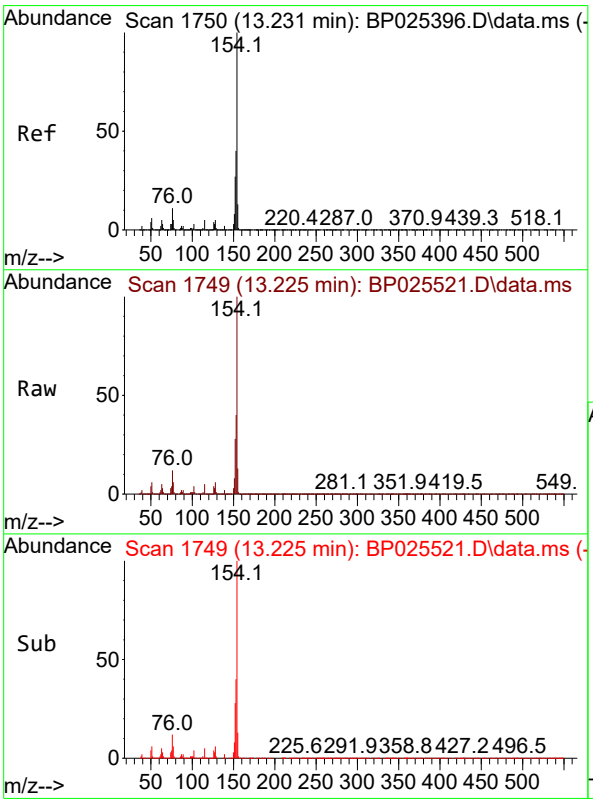
#45
2-Fluorobiphenyl
Concen: 65.271 ng
RT: 13.019 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Instrument :
BNA_P
ClientSampleId :
38M-NMSD

Tgt Ion:172 Resp: 2019365

Ion	Ratio	Lower	Upper
172	100		
171	35.3	28.1	42.1
170	23.0	18.6	28.0

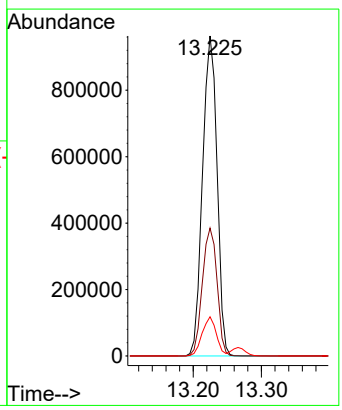


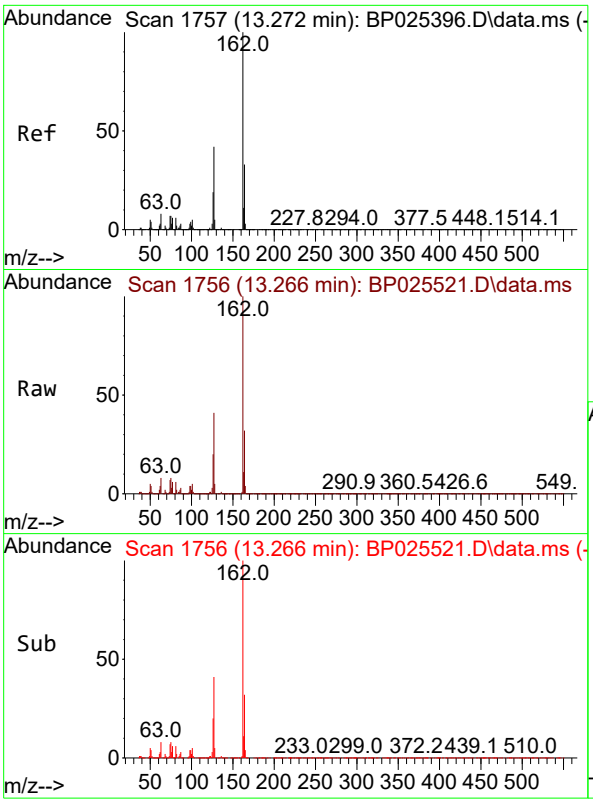


#46
1,1'-Biphenyl
Concen: 46.410 ng
RT: 13.225 min Scan# 1749
Delta R.T. -0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:154 Resp: 1425183

Ion	Ratio	Lower	Upper
154	100		
153	39.9	19.5	59.5
76	12.2	0.0	31.1



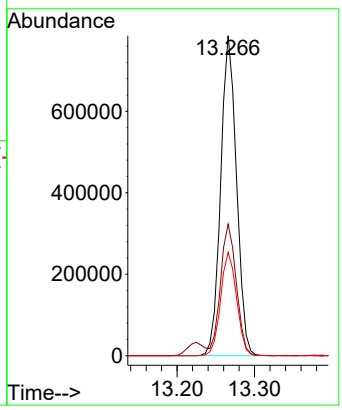


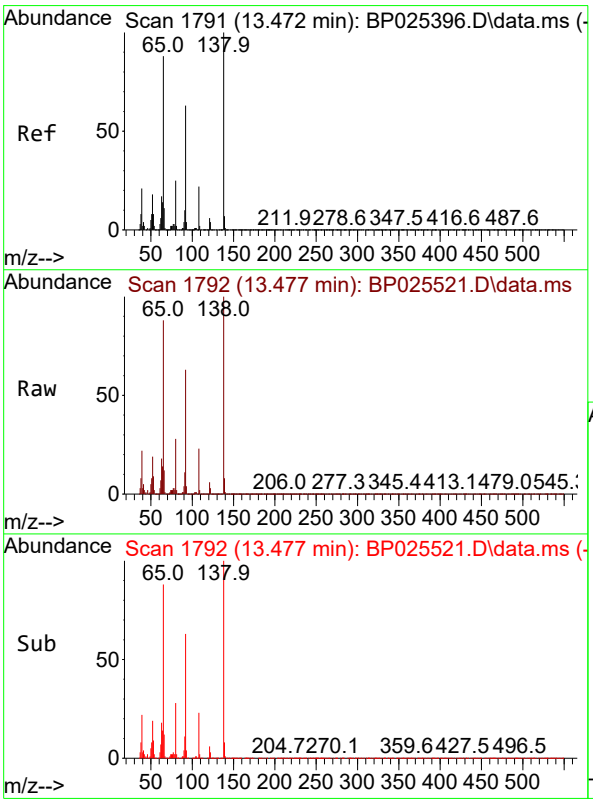
#47
2-Chloronaphthalene
Concen: 46.575 ng
RT: 13.266 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Instrument :
BNA_P
ClientSampleId :
38M-NMSD

Tgt Ion:162 Resp: 1113435

Ion	Ratio	Lower	Upper
162	100		
127	41.2	33.4	50.2
164	32.3	26.2	39.2

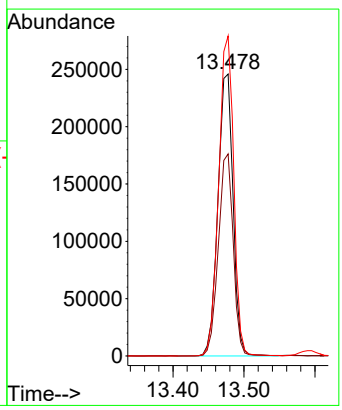


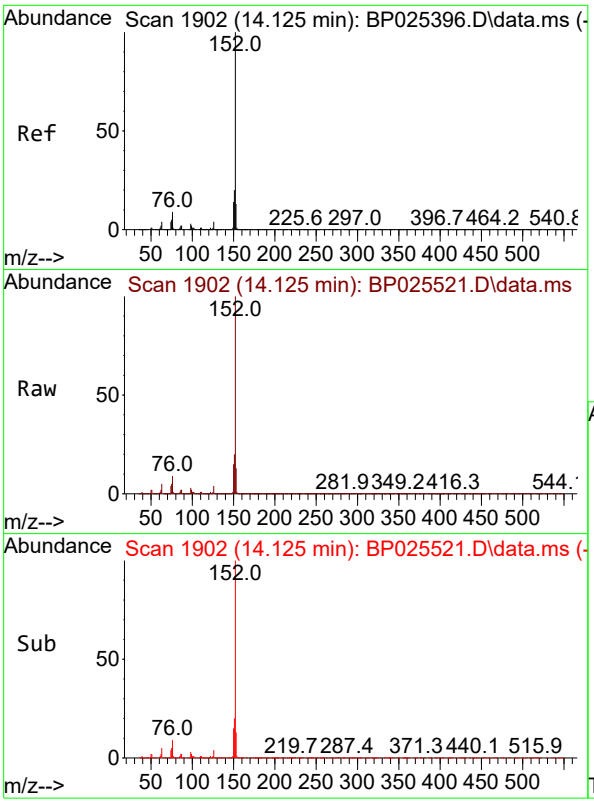


#48
2-Nitroaniline
Concen: 52.041 ng
RT: 13.477 min Scan# 1792
Delta R.T. 0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion: 65 Resp: 362504

Ion	Ratio	Lower	Upper
65	100		
92	71.6	57.6	86.4
138	113.5	91.0	136.6



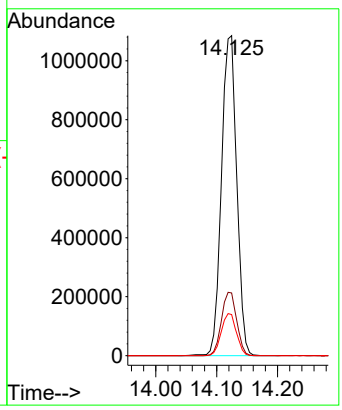


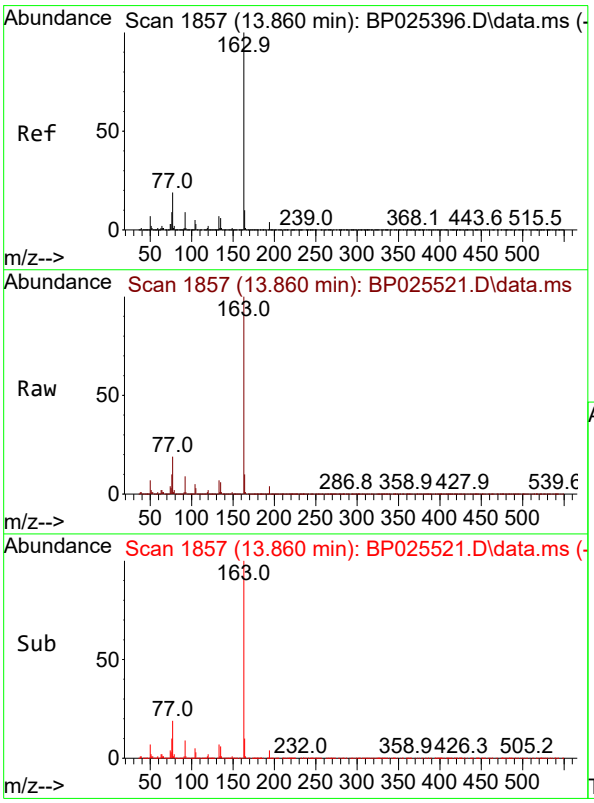
#49
Acenaphthylene
Concen: 47.713 ng
RT: 14.125 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Instrument :
BNA_P
ClientSampleId :
38M-NMSD

Tgt Ion:152 Resp: 1887410

Ion	Ratio	Lower	Upper
152	100		
151	19.6	16.0	24.0
153	12.9	10.6	15.8

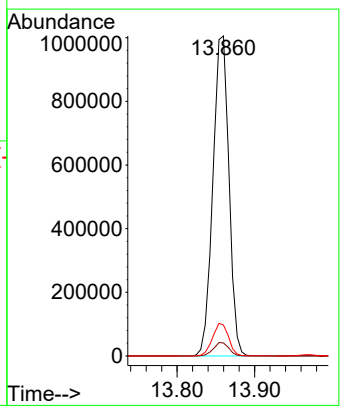


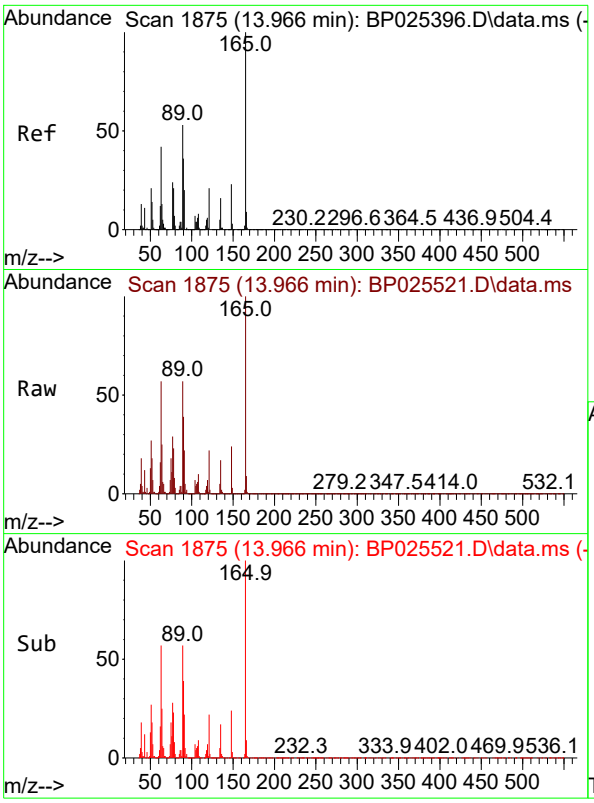


#50
Dimethylphthalate
Concen: 46.677 ng
RT: 13.860 min Scan# 1857
Delta R.T. -0.000 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:163 Resp: 1445275

Ion	Ratio	Lower	Upper
163	100		
194	4.1	3.4	5.0
164	9.6	7.9	11.9



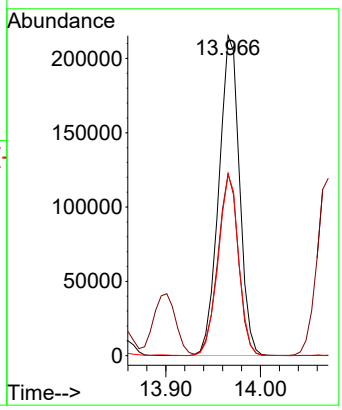


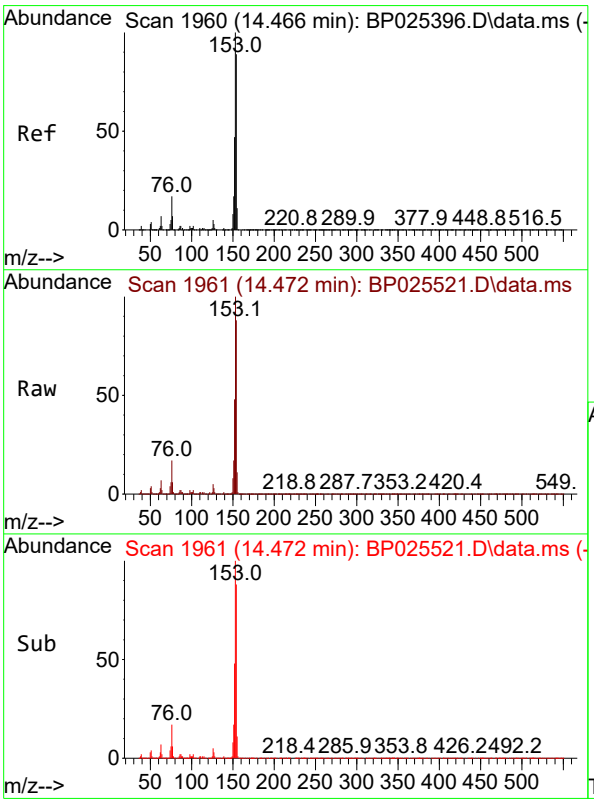
#51
2,6-Dinitrotoluene
Concen: 49.982 ng
RT: 13.966 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Instrument :
BNA_P
ClientSampleId :
38M-NMSD

Tgt Ion:165 Resp: 326188

Ion	Ratio	Lower	Upper
165	100		
63	56.9	40.9	61.3
89	56.6	42.1	63.1

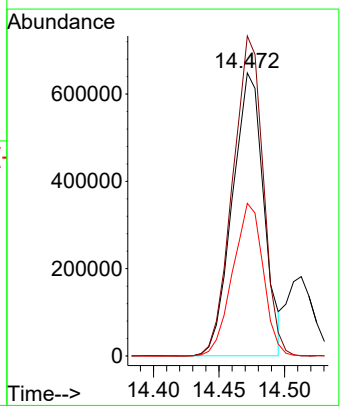


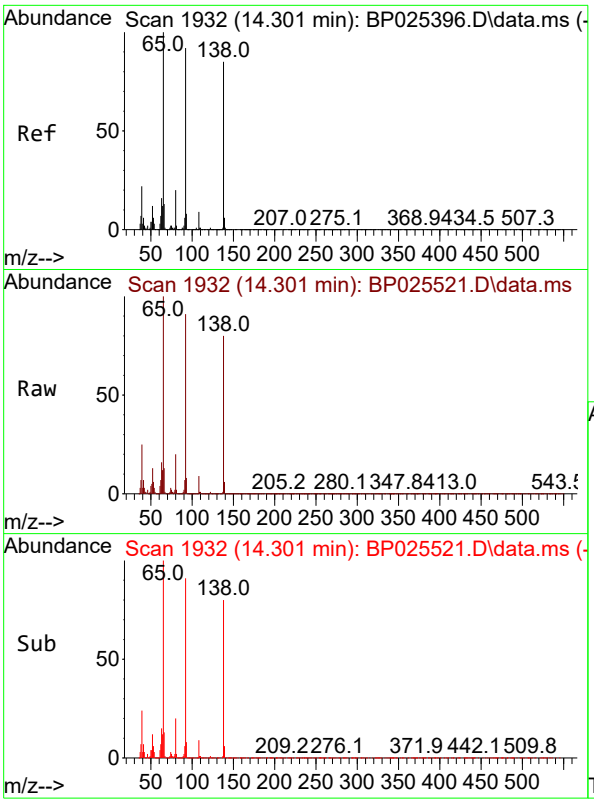


#52
Acenaphthene
Concen: 46.430 ng
RT: 14.472 min Scan# 1961
Delta R.T. 0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:154 Resp: 1078099

Ion	Ratio	Lower	Upper
154	100		
153	113.0	90.2	135.2
152	53.9	42.1	63.1



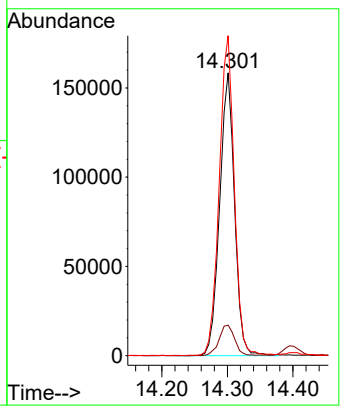


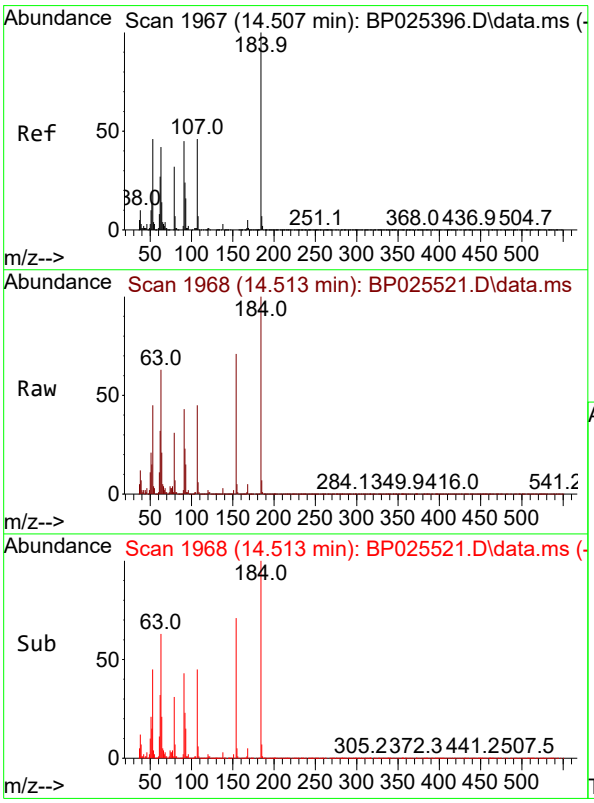
#53
3-Nitroaniline
Concen: 33.806 ng
RT: 14.301 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Instrument :
BNA_P
ClientSampleId :
38M-NMSD

Tgt Ion:138 Resp: 248220

Ion	Ratio	Lower	Upper
138	100		
108	10.8	8.3	12.5
92	113.1	86.2	129.2

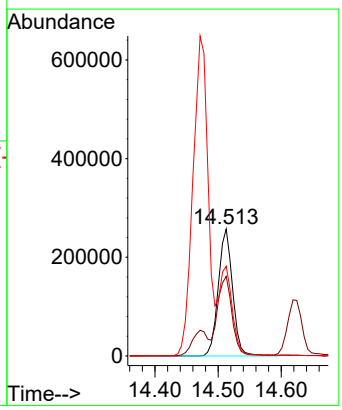


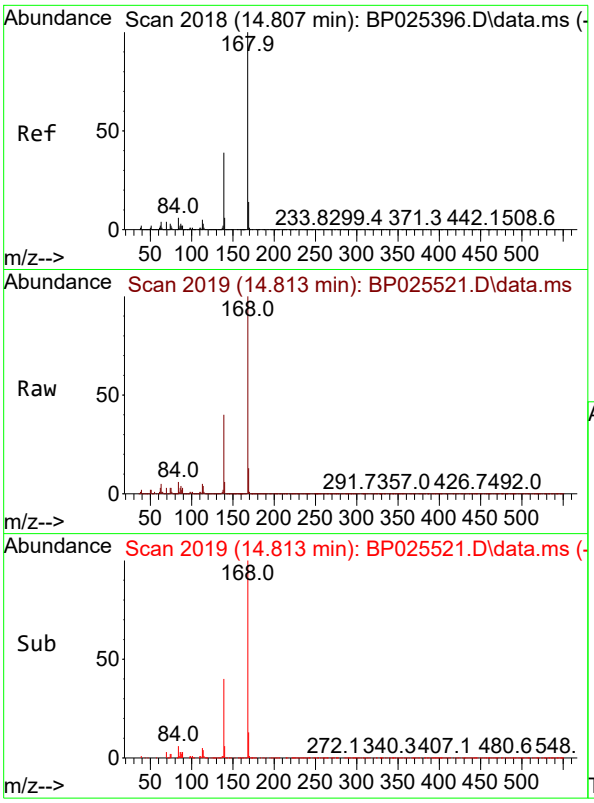


#54
2,4-Dinitrophenol
Concen: 116.529 ng
RT: 14.513 min Scan# 1968
Delta R.T. 0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:184 Resp: 406122

Ion	Ratio	Lower	Upper
184	100		
63	62.8	49.4	74.2
154	70.7	54.6	82.0



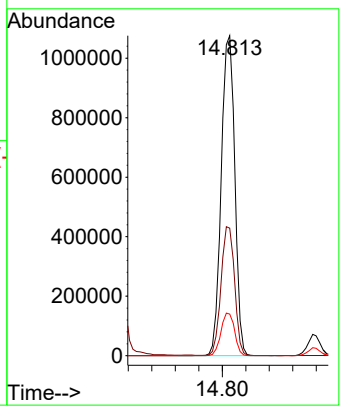


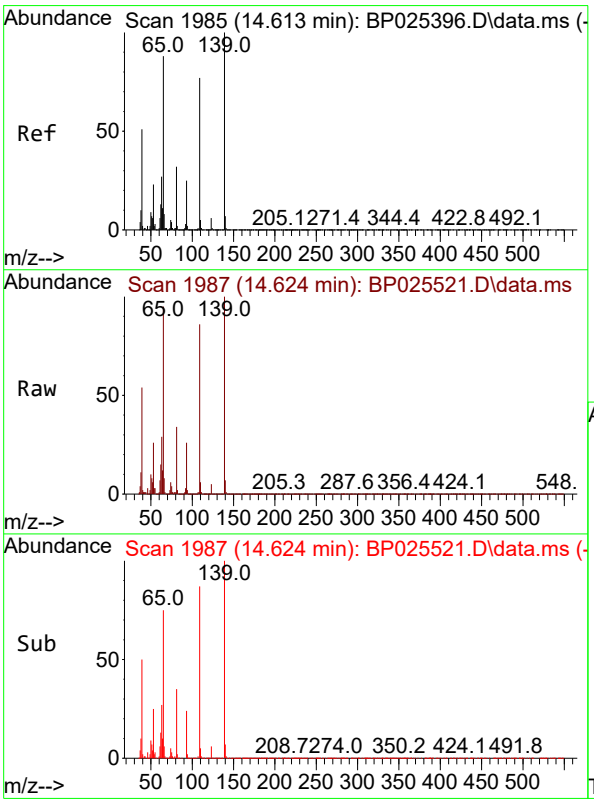
#55
Dibenzofuran
Concen: 46.799 ng
RT: 14.813 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Instrument :
BNA_P
ClientSampleId :
38M-NMSD

Tgt Ion:168 Resp: 1718002

Ion	Ratio	Lower	Upper
168	100		
139	39.8	31.5	47.3
169	13.0	10.9	16.3

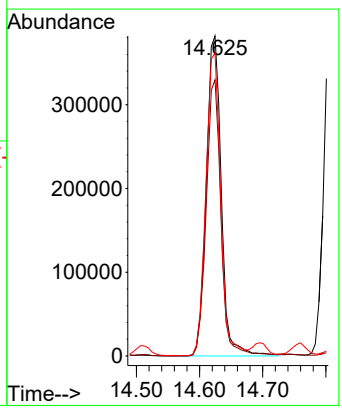


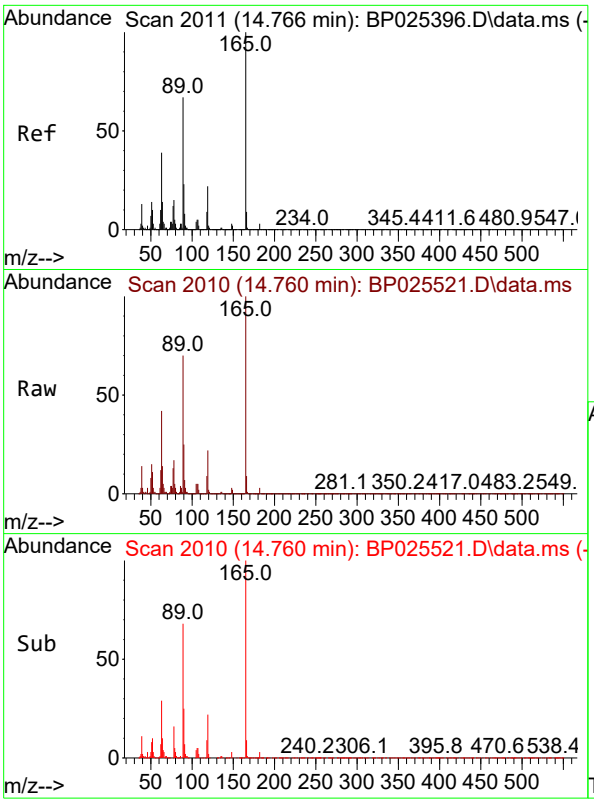


#56
4-Nitrophenol
Concen: 104.595 ng
RT: 14.624 min Scan# 1987
Delta R.T. 0.012 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:139 Resp: 631088

Ion	Ratio	Lower	Upper
139	100		
109	86.3	56.6	96.6
65	94.7	68.2	108.2



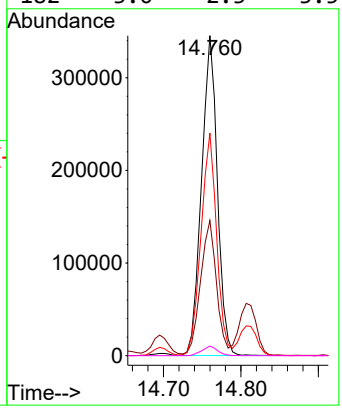


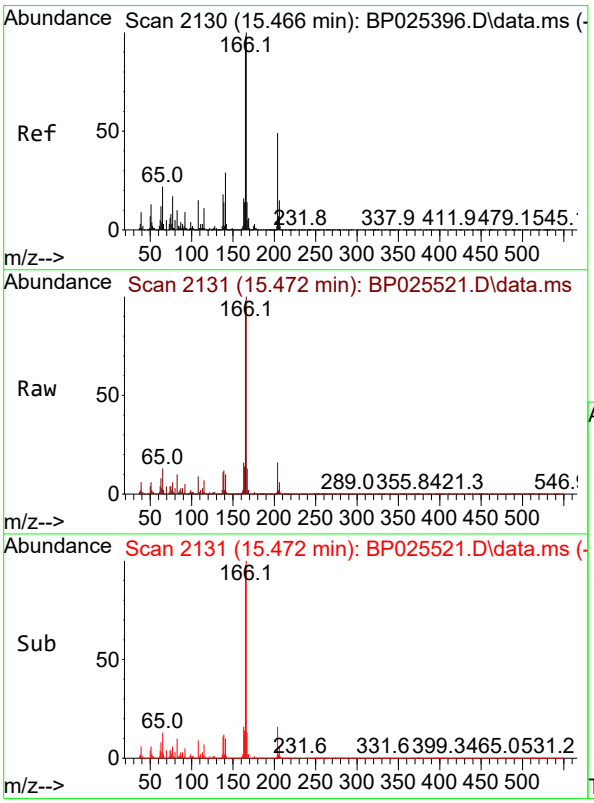
#57
2,4-Dinitrotoluene
Concen: 52.625 ng
RT: 14.760 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Instrument :
BNA_P
ClientSampleId :
38M-NMSD

Tgt Ion:165 Resp: 490004

Ion	Ratio	Lower	Upper
165	100		
63	42.2	31.4	47.2
89	69.6	53.3	79.9
182	3.0	2.3	3.5

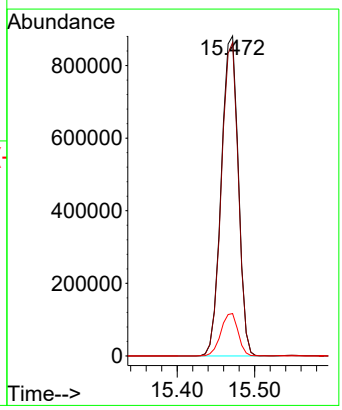


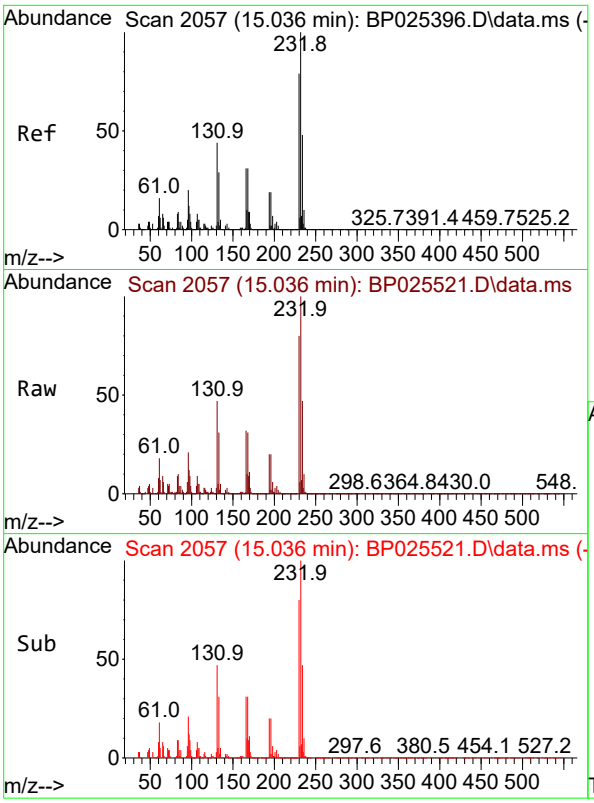


#58
Fluorene
Concen: 46.402 ng
RT: 15.472 min Scan# 2131
Delta R.T. 0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:166 Resp: 1344141

Ion	Ratio	Lower	Upper
166	100		
165	98.0	78.8	118.2
167	13.2	11.0	16.4



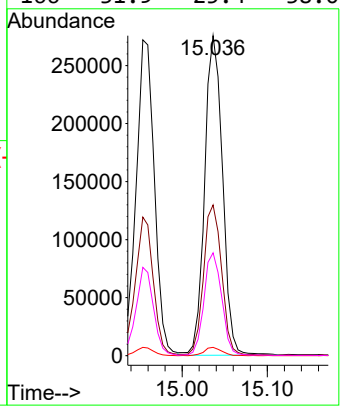


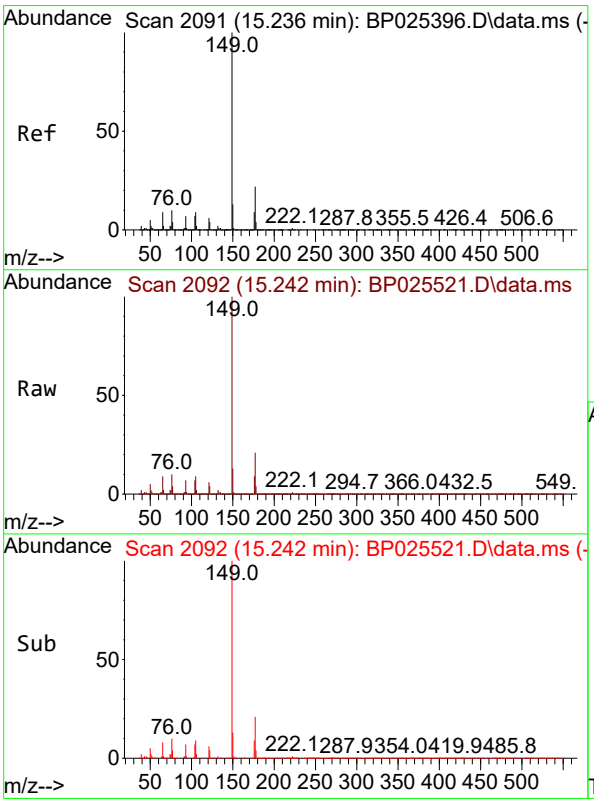
#59
2,3,4,6-Tetrachlorophenol
Concen: 50.461 ng
RT: 15.036 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Instrument :
BNA_P
ClientSampleId :
38M-NMSD

Tgt Ion:232 Resp: 402588

Ion	Ratio	Lower	Upper
232	100		
131	47.9	37.0	55.6
130	2.6	1.9	2.9
166	31.9	25.4	38.0

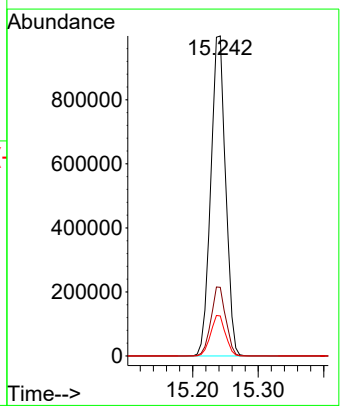


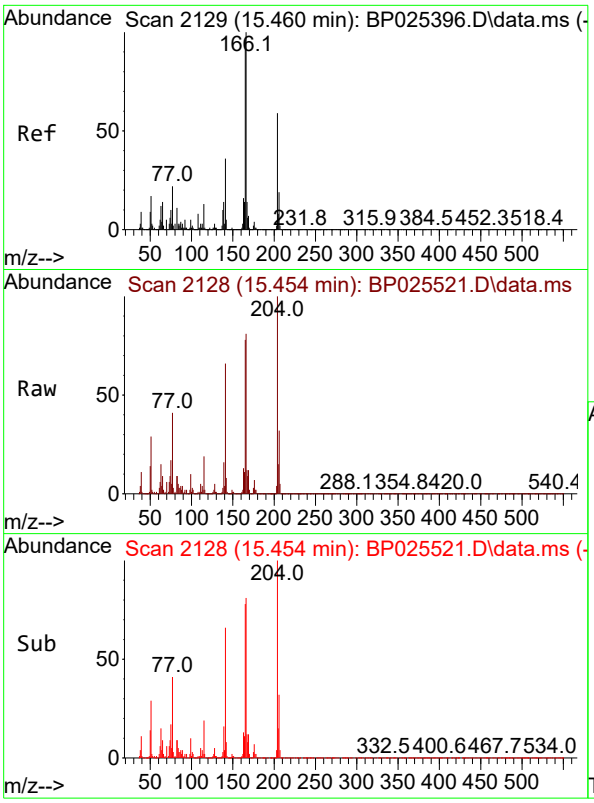


#60
Diethylphthalate
Concen: 49.879 ng
RT: 15.242 min Scan# 2092
Delta R.T. 0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:149 Resp: 1569300

Ion	Ratio	Lower	Upper
149	100		
177	21.5	17.3	25.9
150	12.5	10.3	15.5



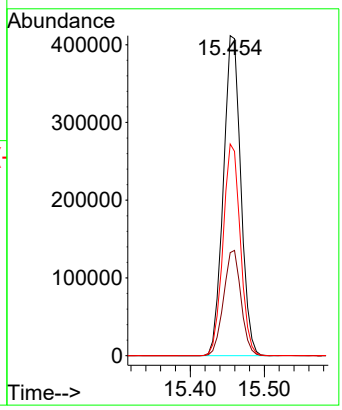


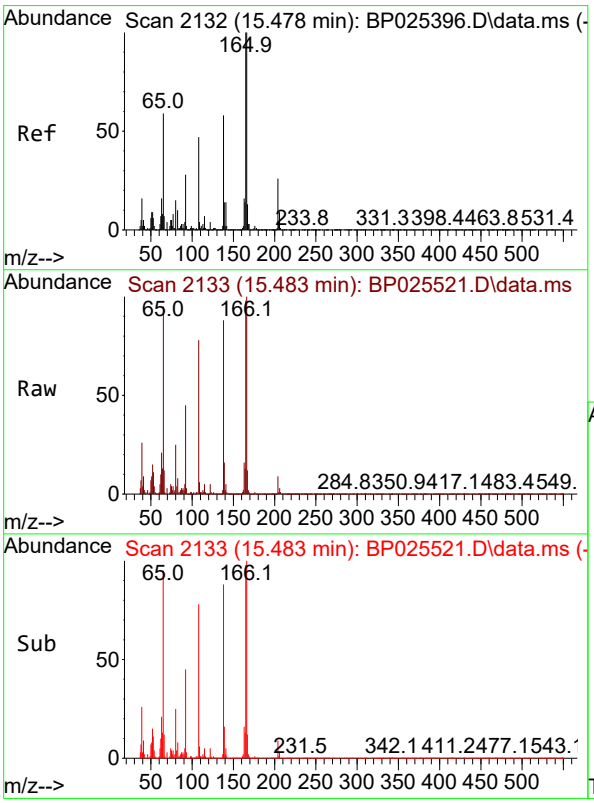
#61
4-Chlorophenyl-phenylether
Concen: 46.631 ng
RT: 15.454 min Scan# 21
Delta R.T. -0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Instrument :
BNA_P
ClientSampleId :
38M-NMSD

Tgt Ion:204 Resp: 671793

Ion	Ratio	Lower	Upper
204	100		
206	32.2	25.8	38.8
141	66.2	49.4	74.2

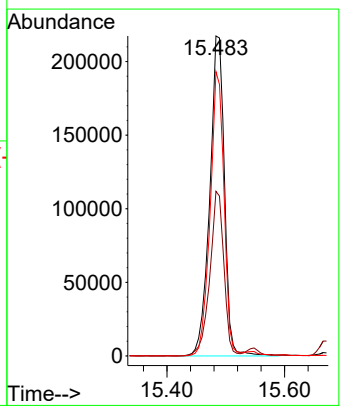


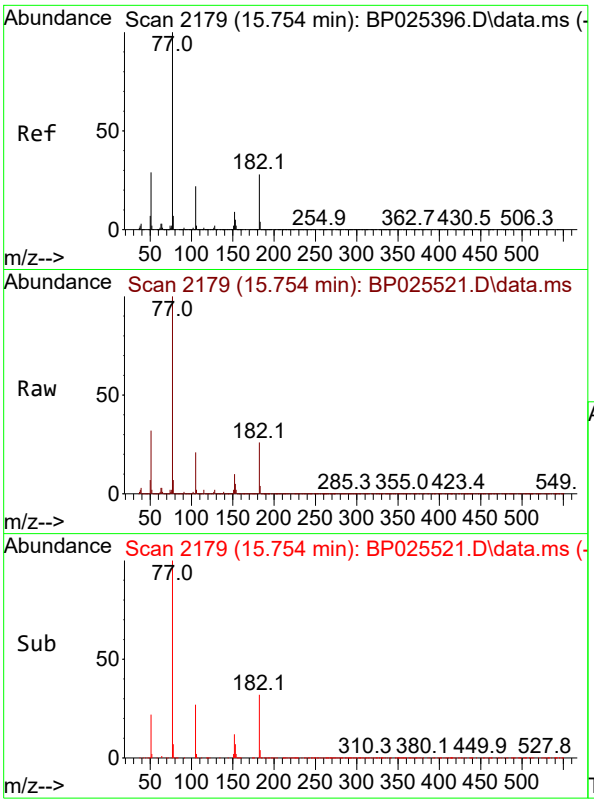


#62
4-Nitroaniline
Concen: 50.122 ng
RT: 15.483 min Scan# 2133
Delta R.T. 0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:138 Resp: 377285

Ion	Ratio	Lower	Upper
138	100		
92	51.4	29.1	69.1
108	88.8	61.5	101.5



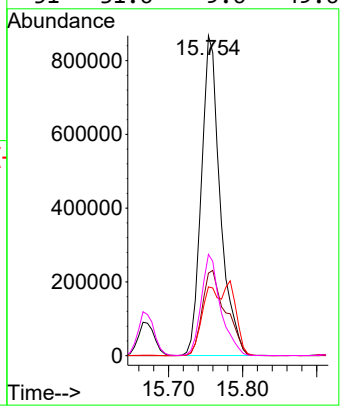


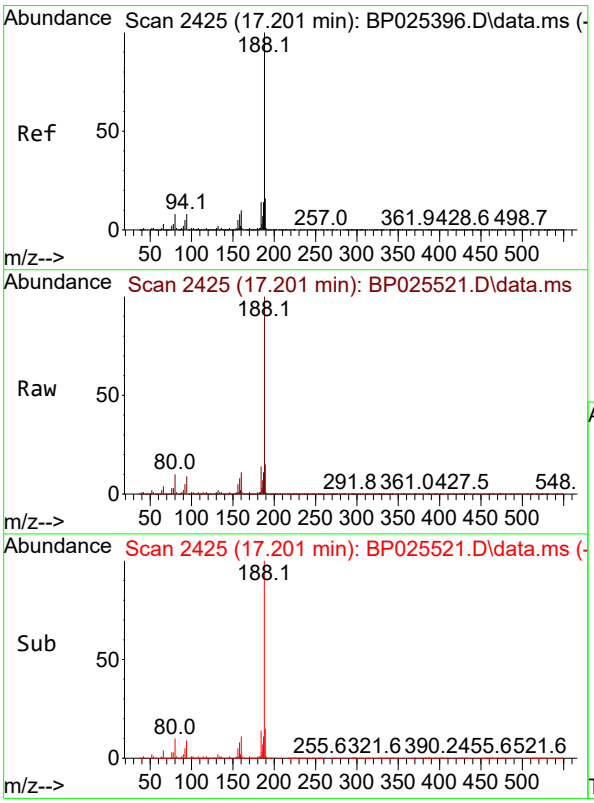
#63
Azobenzene
Concen: 56.805 ng
RT: 15.754 min Scan# 21
Delta R.T. -0.000 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Instrument :
BNA_P
ClientSampleId :
38M-NMSD

Tgt Ion: 77 Resp: 1530314

Ion	Ratio	Lower	Upper
77	100		
182	25.8	7.5	47.5
105	21.5	2.1	42.1
51	31.6	9.6	49.6

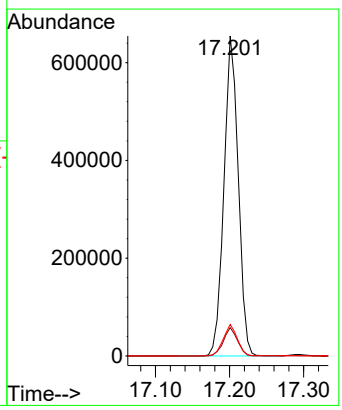


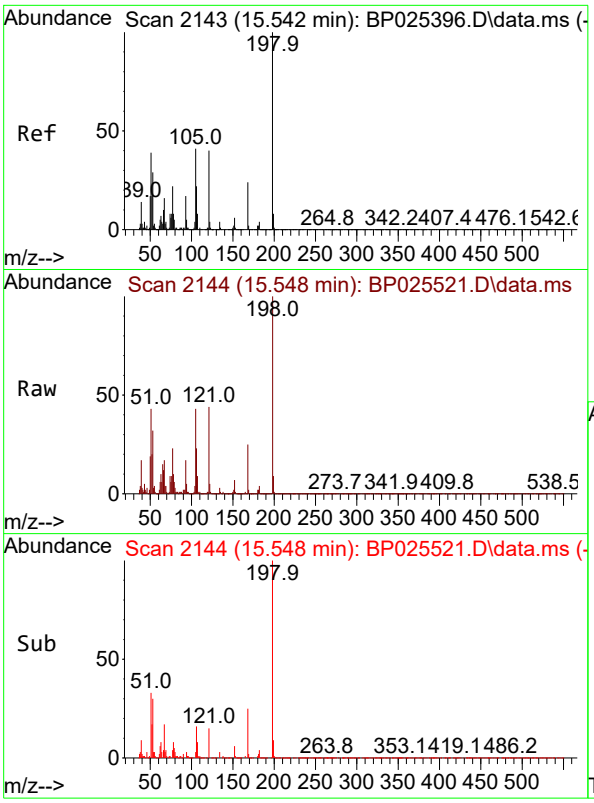


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.201 min Scan# 2425
Delta R.T. -0.000 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:188 Resp: 876970

Ion	Ratio	Lower	Upper
188	100		
94	8.9	6.6	10.0
80	9.9	6.7	10.1



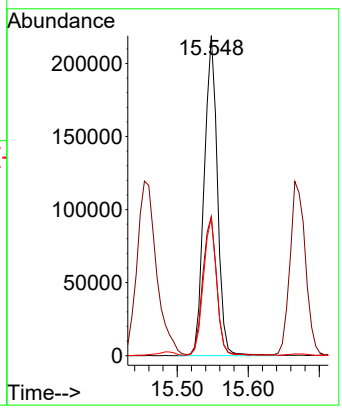


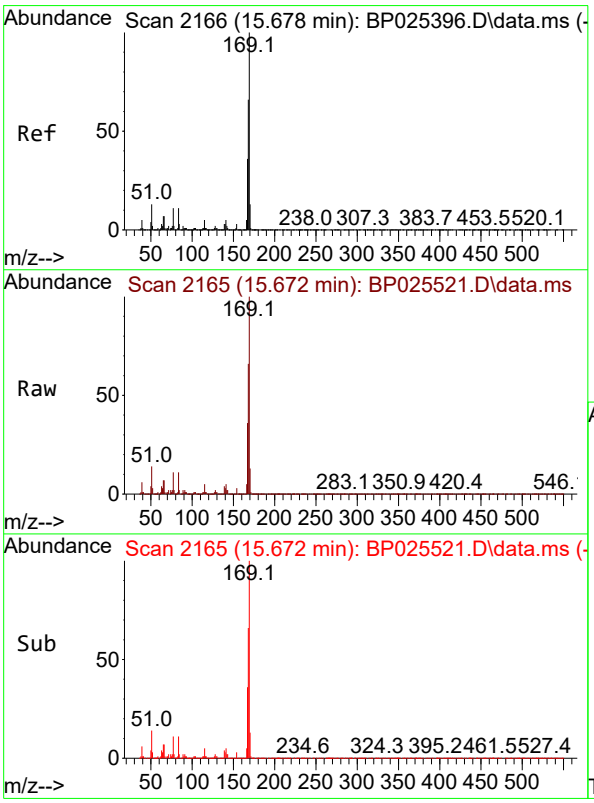
#65
4,6-Dinitro-2-methylphenol
Concen: 51.847 ng
RT: 15.548 min Scan# 21
Delta R.T. 0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Instrument :
BNA_P
ClientSampleId :
38M-NMSD

Tgt Ion:198 Resp: 283428

Ion	Ratio	Lower	Upper
198	100		
51	43.4	19.6	59.6
105	43.2	20.9	60.9

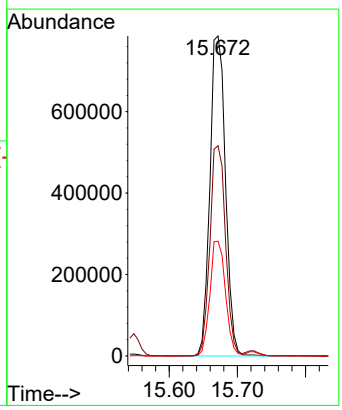


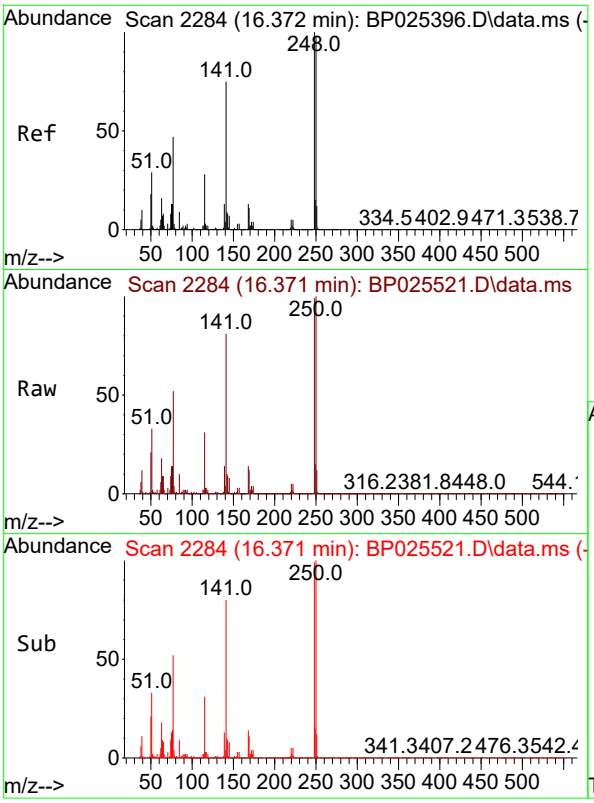


#66
n-Nitrosodiphenylamine
Concen: 46.799 ng
RT: 15.672 min Scan# 2165
Delta R.T. -0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:169 Resp: 1251523

Ion	Ratio	Lower	Upper
169	100		
168	65.7	53.2	79.8
167	35.8	28.7	43.1



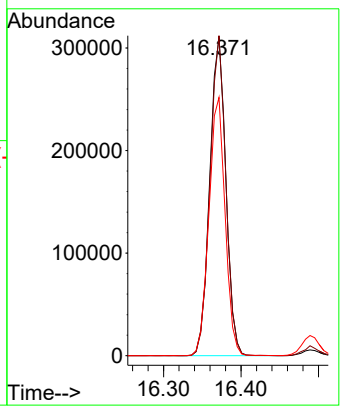


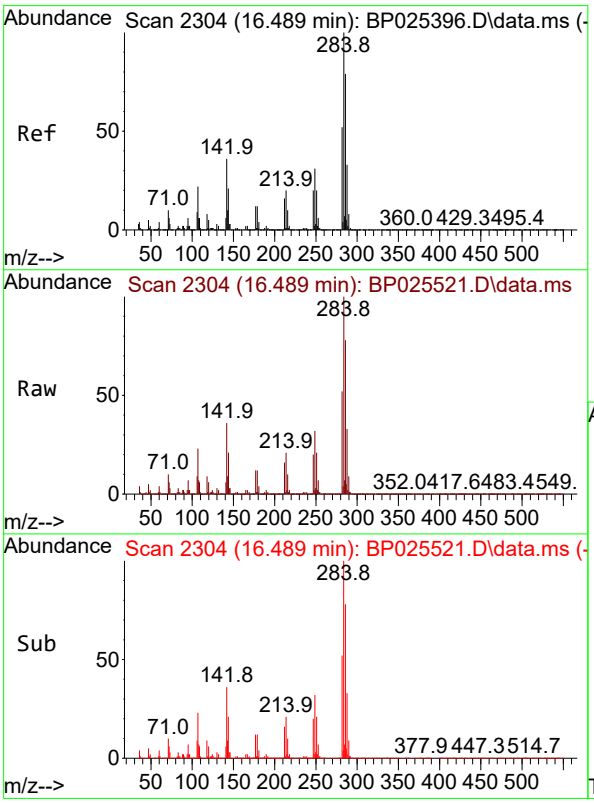
#67
4-Bromophenyl-phenylether
Concen: 46.483 ng
RT: 16.371 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Instrument :
BNA_P
ClientSampleId :
38M-NMSD

Tgt Ion:248 Resp: 448328

Ion	Ratio	Lower	Upper
248	100		
250	100.6	78.2	117.2
141	81.2	59.6	89.4

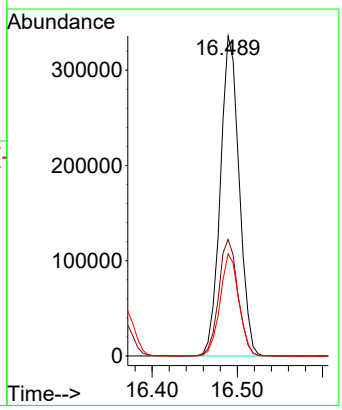


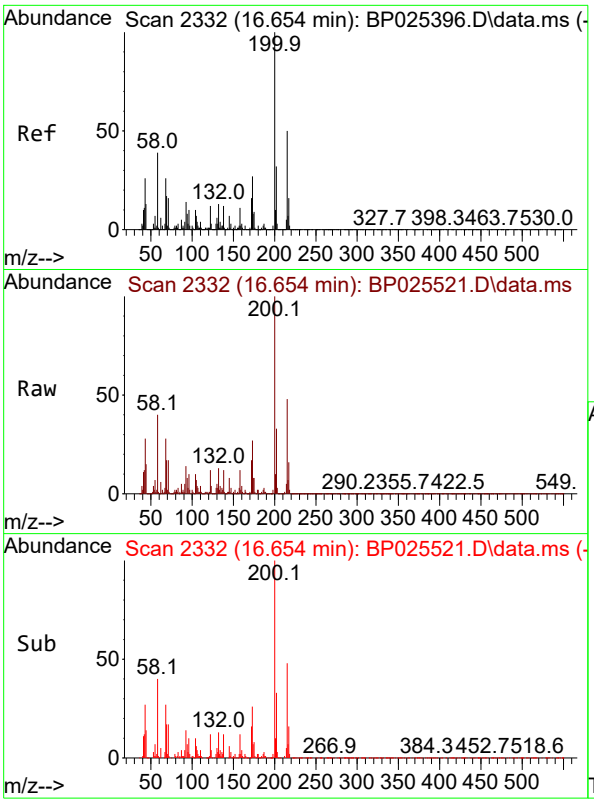


#68
Hexachlorobenzene
Concen: 46.040 ng
RT: 16.489 min Scan# 2304
Delta R.T. -0.000 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:284 Resp: 514752

Ion	Ratio	Lower	Upper
284	100		
142	36.4	29.1	43.7
249	31.9	25.0	37.4



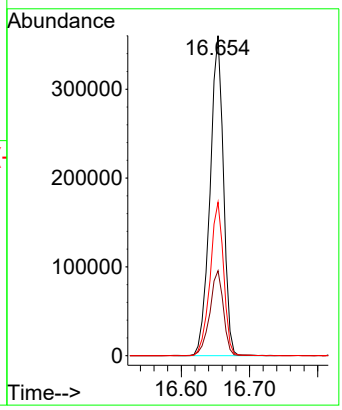


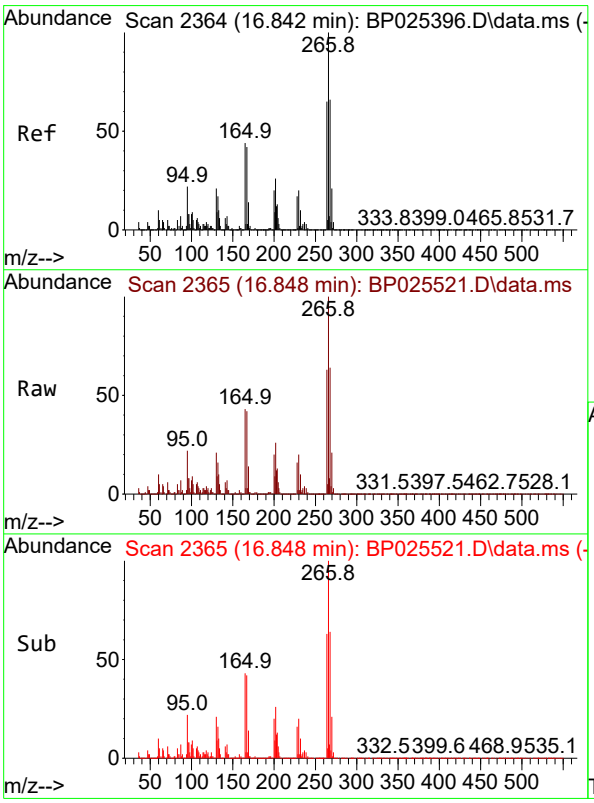
#69
Atrazine
Concen: 49.315 ng
RT: 16.654 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Instrument :
BNA_P
ClientSampleId :
38M-NMSD

Tgt Ion:200 Resp: 493890

Ion	Ratio	Lower	Upper
200	100		
173	26.6	6.7	46.7
215	47.9	29.7	69.7

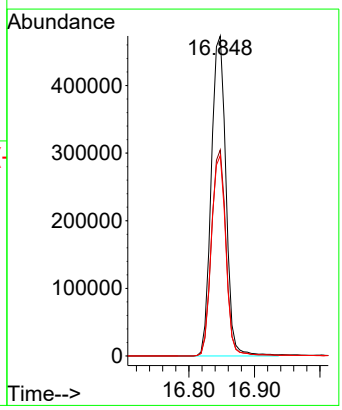


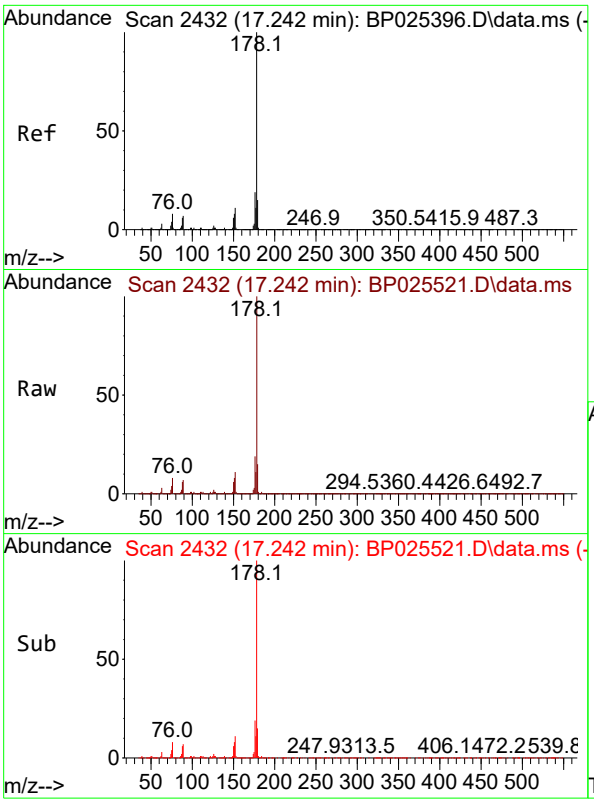


#70
Pentachlorophenol
Concen: 103.867 ng
RT: 16.848 min Scan# 2365
Delta R.T. 0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:266 Resp: 733067

Ion	Ratio	Lower	Upper
266	100		
268	64.4	52.6	79.0
264	62.6	52.0	78.0



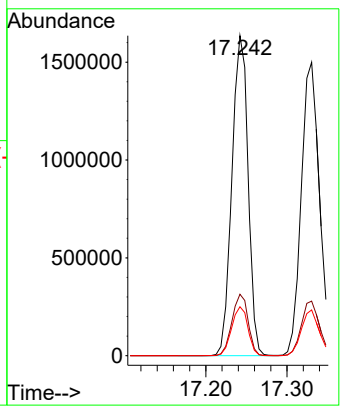


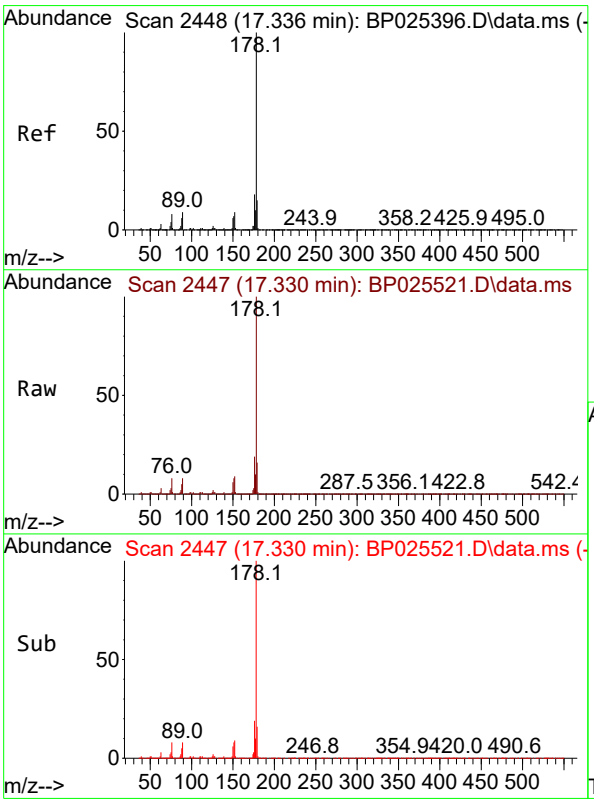
#71
Phenanthrene
Concen: 46.879 ng
RT: 17.242 min Scan# 24
Delta R.T. -0.000 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Instrument :
BNA_P
ClientSampleId :
38M-NMSD

Tgt Ion:178 Resp: 2258400

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.5	23.3
179	15.3	12.2	18.4

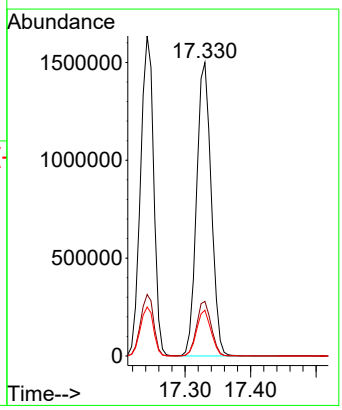


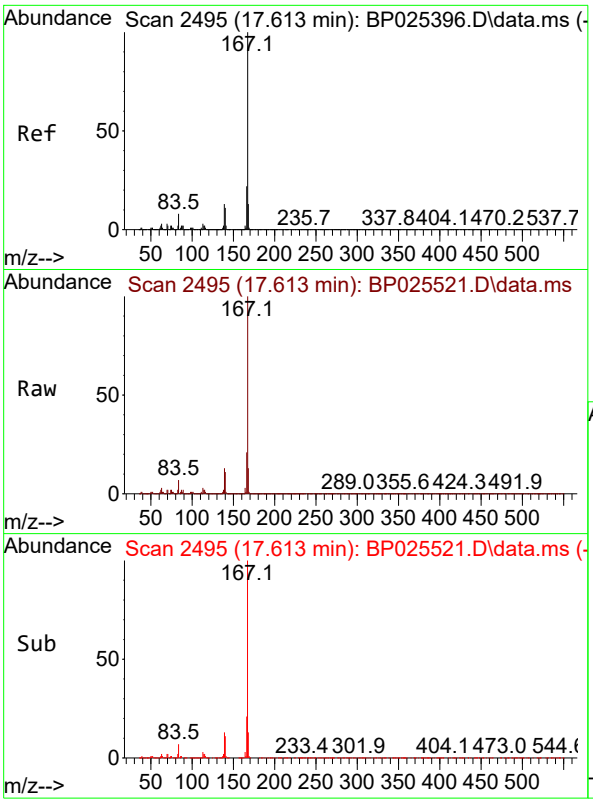


#72
Anthracene
Concen: 47.367 ng
RT: 17.330 min Scan# 2447
Delta R.T. -0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:178 Resp: 2330282

Ion	Ratio	Lower	Upper
178	100		
176	18.6	14.7	22.1
179	15.6	12.2	18.2



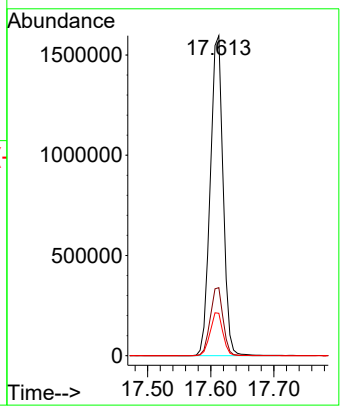


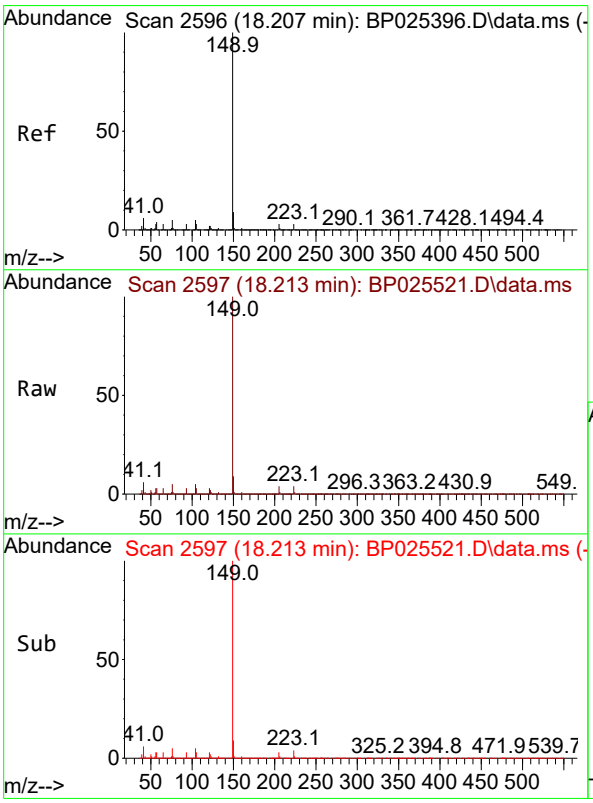
#73
Carbazole
Concen: 48.460 ng
RT: 17.613 min Scan# 24
Delta R.T. -0.000 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Instrument :
BNA_P
ClientSampleId :
38M-NMSD

Tgt Ion:167 Resp: 2245579

Ion	Ratio	Lower	Upper
167	100		
166	21.2	17.5	26.3
139	13.2	10.6	16.0

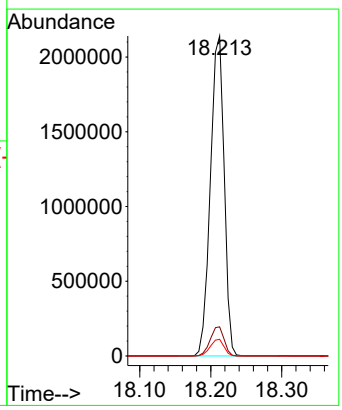


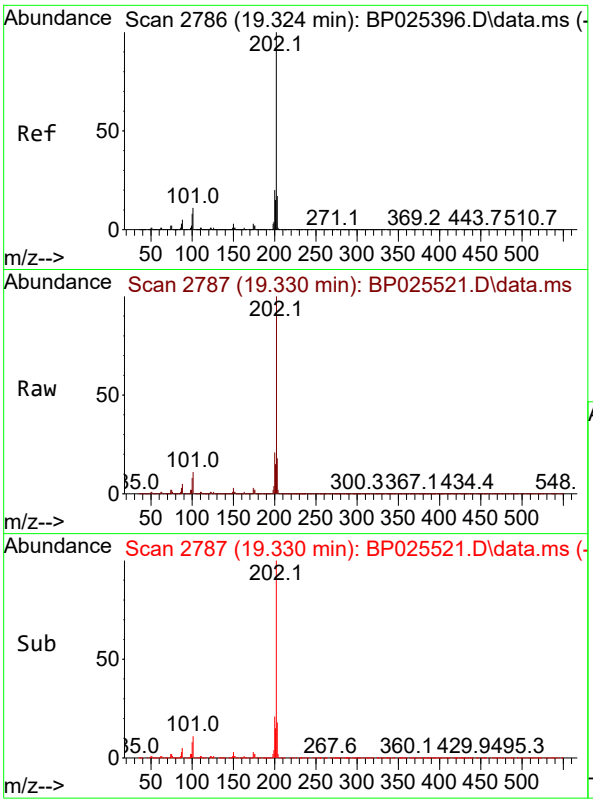


#74
Di-n-butylphthalate
Concen: 50.547 ng
RT: 18.213 min Scan# 2597
Delta R.T. 0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:149 Resp: 2881804

Ion	Ratio	Lower	Upper
149	100		
150	9.1	7.4	11.0
104	5.2	4.2	6.2



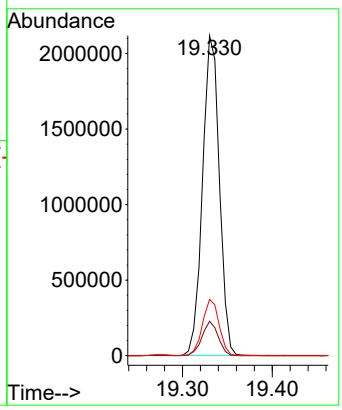


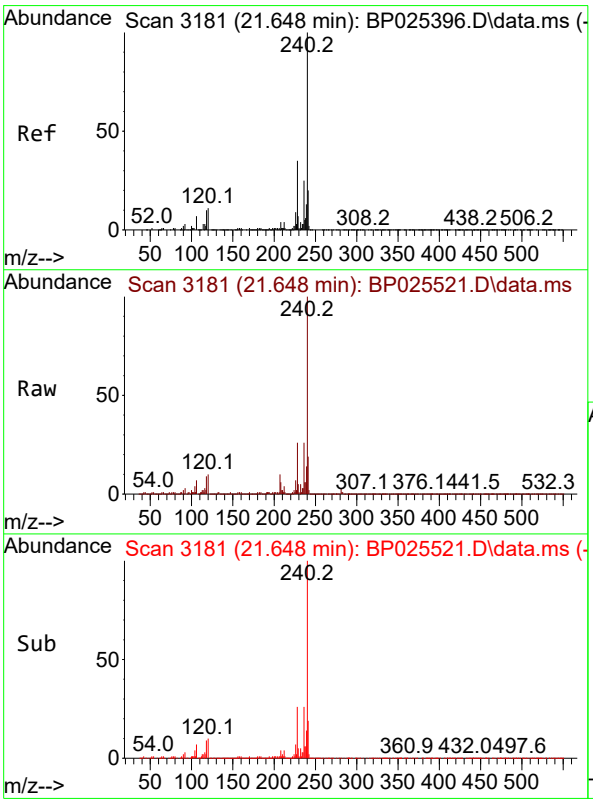
#75
Fluoranthene
Concen: 47.871 ng
RT: 19.330 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Instrument :
BNA_P
ClientSampleId :
38M-NMSD

Tgt Ion:202 Resp: 2750858

Ion	Ratio	Lower	Upper
202	100		
101	10.8	0.0	31.1
203	17.6	0.0	37.3

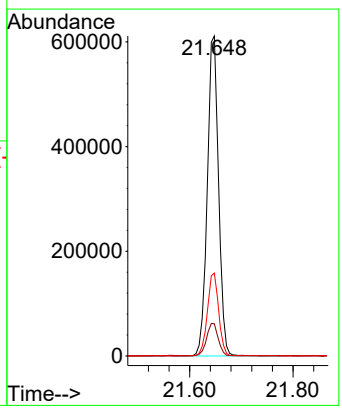


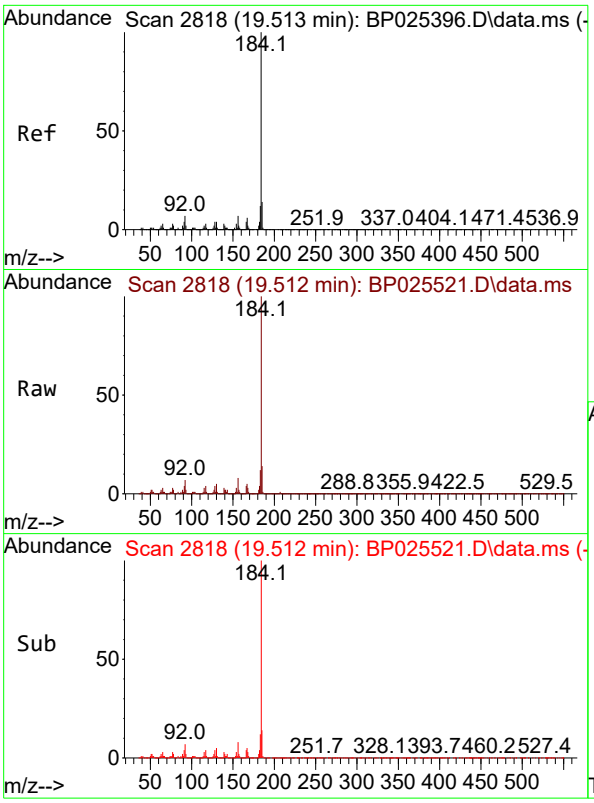


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.648 min Scan# 3181
Delta R.T. -0.000 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:240 Resp: 922591

Ion	Ratio	Lower	Upper
240	100		
120	10.1	8.9	13.3
236	25.9	19.8	29.8



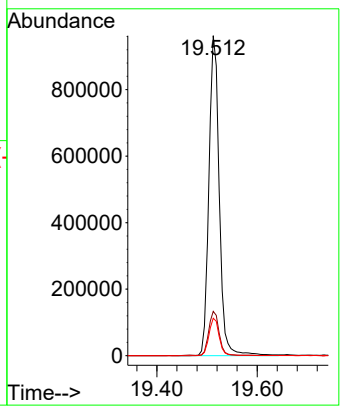


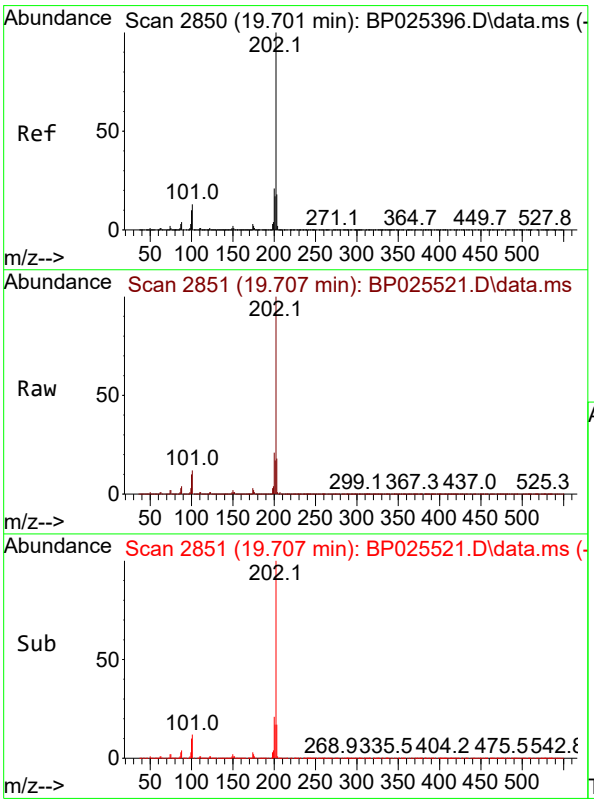
#77
Benzidine
Concen: 43.896 ng
RT: 19.512 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Instrument :
BNA_P
ClientSampleId :
38M-NMSD

Tgt Ion:184 Resp: 1382116

Ion	Ratio	Lower	Upper
184	100		
185	13.8	11.5	17.3
183	11.7	9.4	14.2

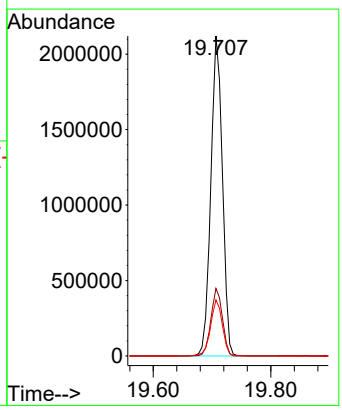


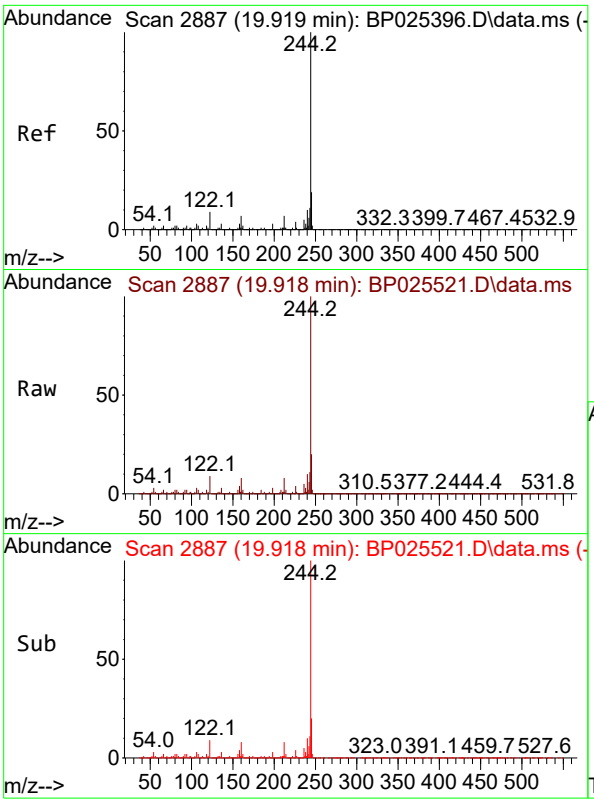


#78
Pyrene
Concen: 48.260 ng
RT: 19.707 min Scan# 2851
Delta R.T. 0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:202 Resp: 2893940

Ion	Ratio	Lower	Upper
202	100		
200	21.1	16.9	25.3
203	17.5	14.2	21.2



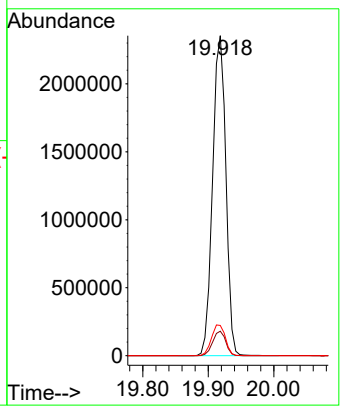


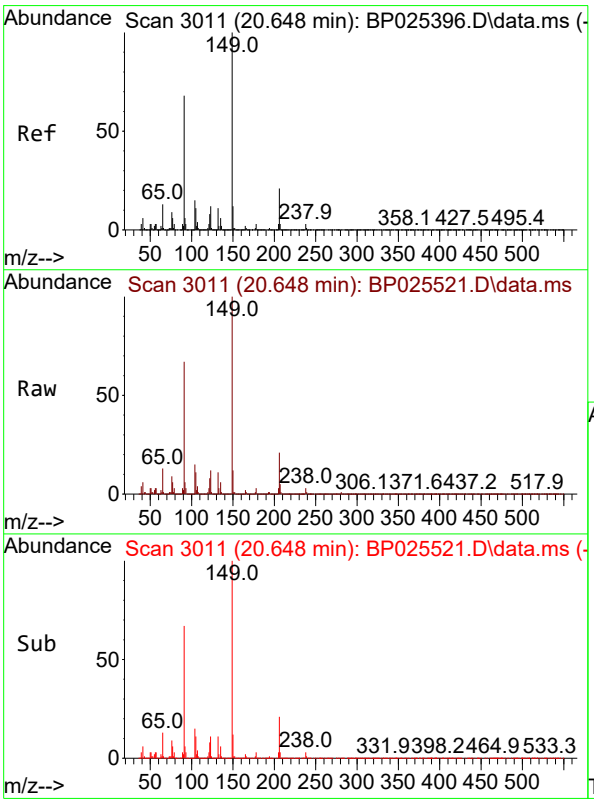
#79
Terphenyl-d14
Concen: 65.486 ng
RT: 19.918 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Instrument :
BNA_P
ClientSampleId :
38M-NMSD

Tgt Ion:244 Resp: 3302241

Ion	Ratio	Lower	Upper
244	100		
212	7.7	5.8	8.6
122	9.5	7.4	11.2

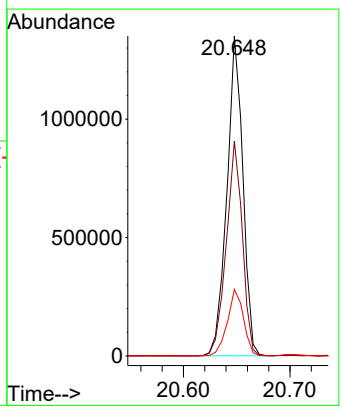


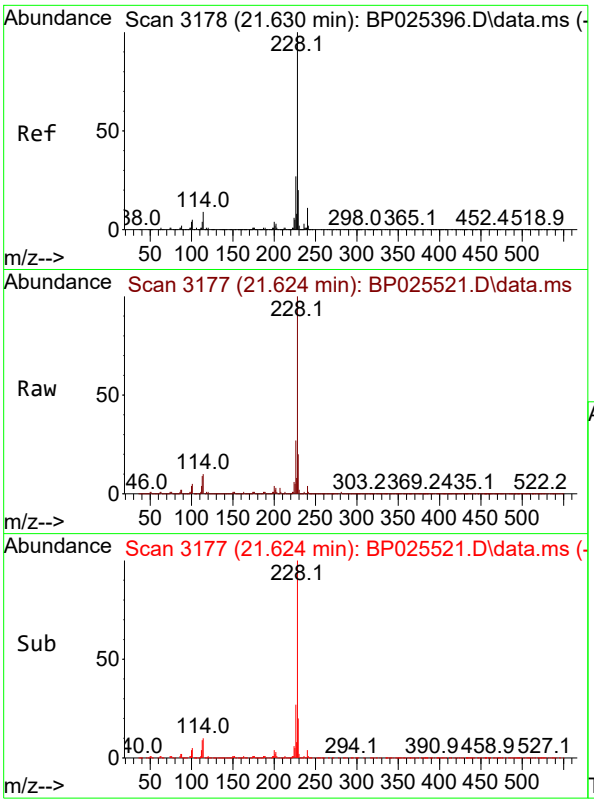


#80
Butylbenzylphthalate
Concen: 51.861 ng
RT: 20.648 min Scan# 3011
Delta R.T. -0.000 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:149 Resp: 1409430

Ion	Ratio	Lower	Upper
149	100		
91	67.1	54.2	81.2
206	20.8	16.6	24.8



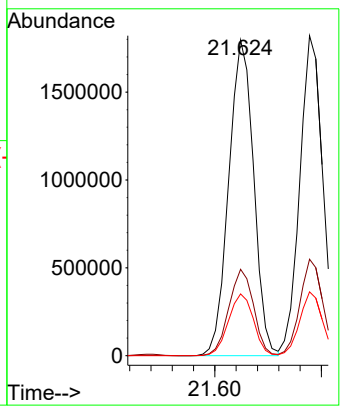


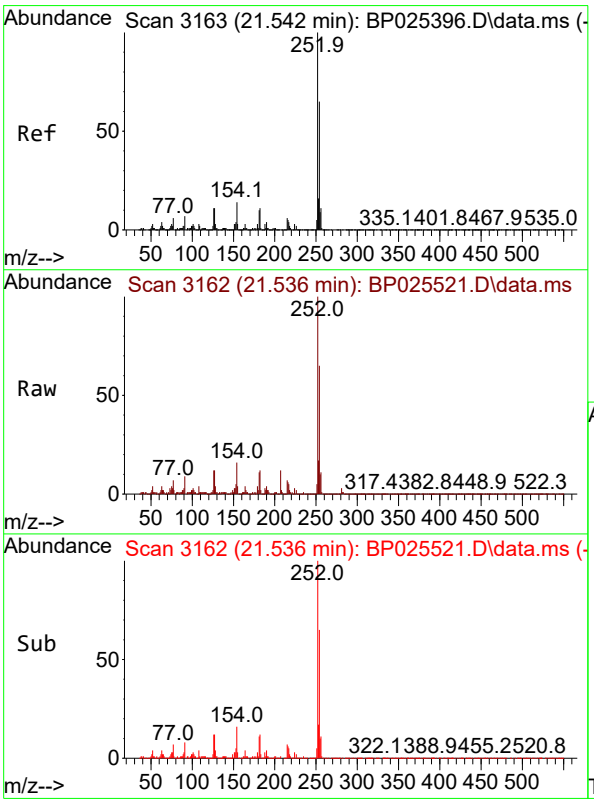
#81
Benzo(a)anthracene
Concen: 48.025 ng
RT: 21.624 min Scan# 3
Delta R.T. -0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Instrument :
BNA_P
ClientSampleId :
38M-NMSD

Tgt Ion:228 Resp: 2922112

Ion	Ratio	Lower	Upper
228	100		
226	27.4	21.7	32.5
229	19.5	15.6	23.4

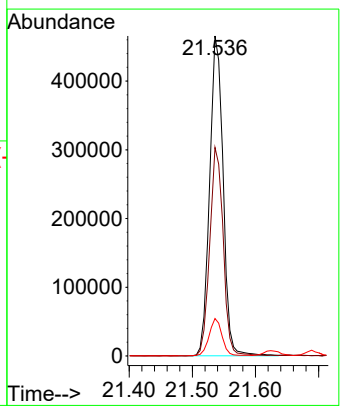


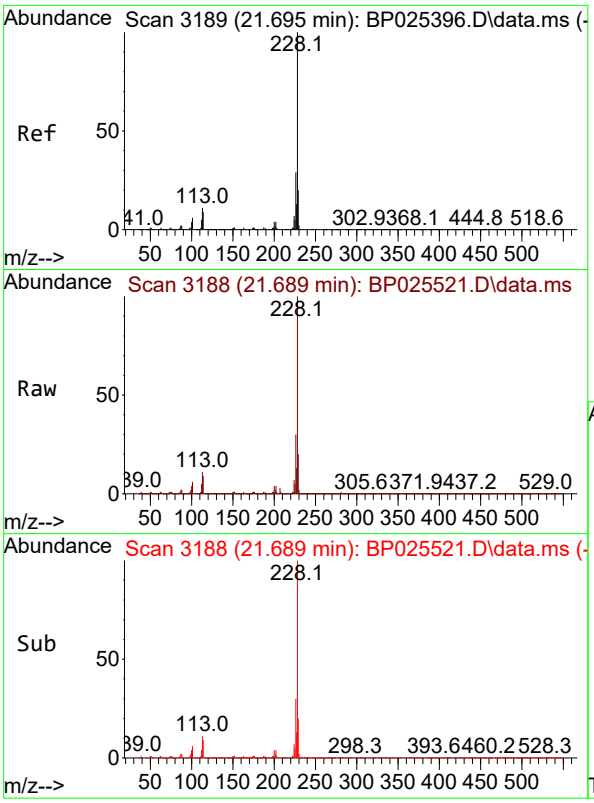


#82
3,3'-Dichlorobenzidine
Concen: 30.138 ng
RT: 21.536 min Scan# 3162
Delta R.T. -0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:252 Resp: 691173

Ion	Ratio	Lower	Upper
252	100		
254	65.2	51.8	77.6
126	11.7	9.1	13.7



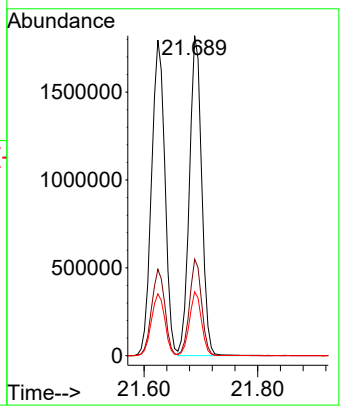


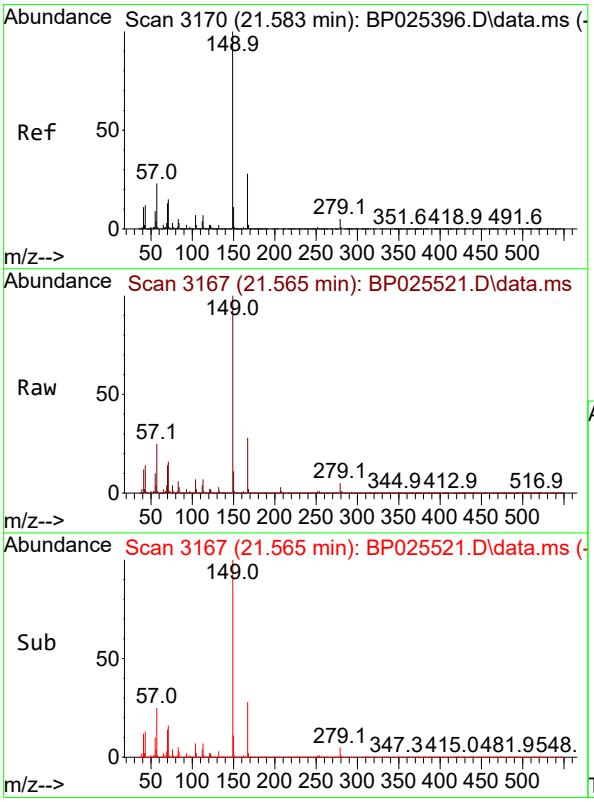
#83
Chrysene
Concen: 47.938 ng
RT: 21.689 min Scan# 3
Delta R.T. -0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Instrument :
BNA_P
ClientSampleId :
38M-NMSD

Tgt Ion:228 Resp: 2731566

Ion	Ratio	Lower	Upper
228	100		
226	30.1	23.2	34.8
229	20.0	15.6	23.4

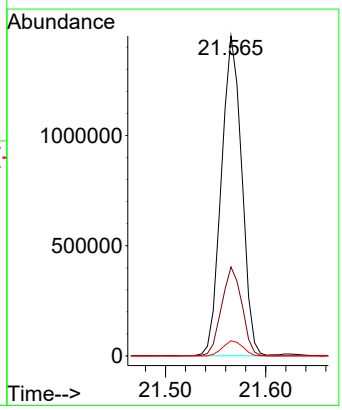


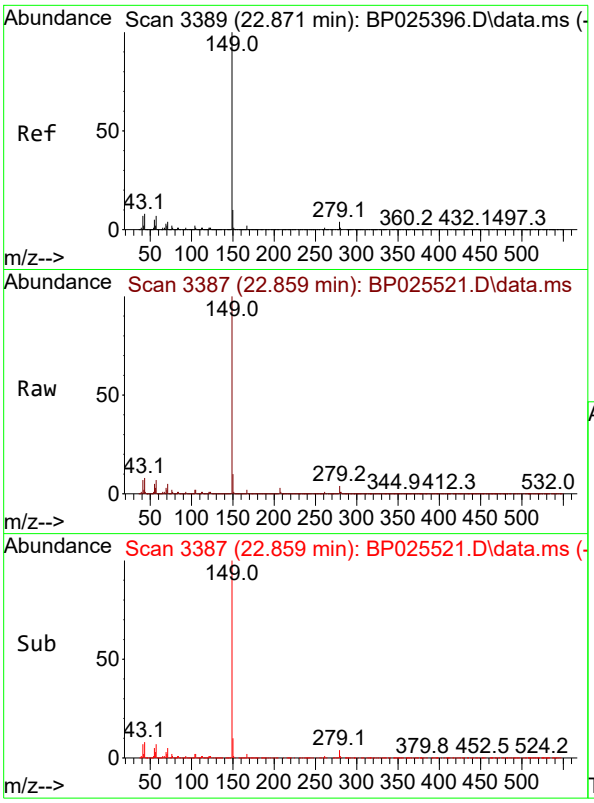


#84
Bis(2-ethylhexyl)phthalate
Concen: 51.233 ng
RT: 21.565 min Scan# 3167
Delta R.T. -0.018 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:149 Resp: 2049629

Ion	Ratio	Lower	Upper
149	100		
167	27.8	22.1	33.1
279	4.8	3.8	5.6



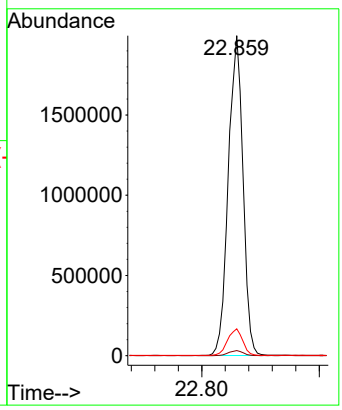


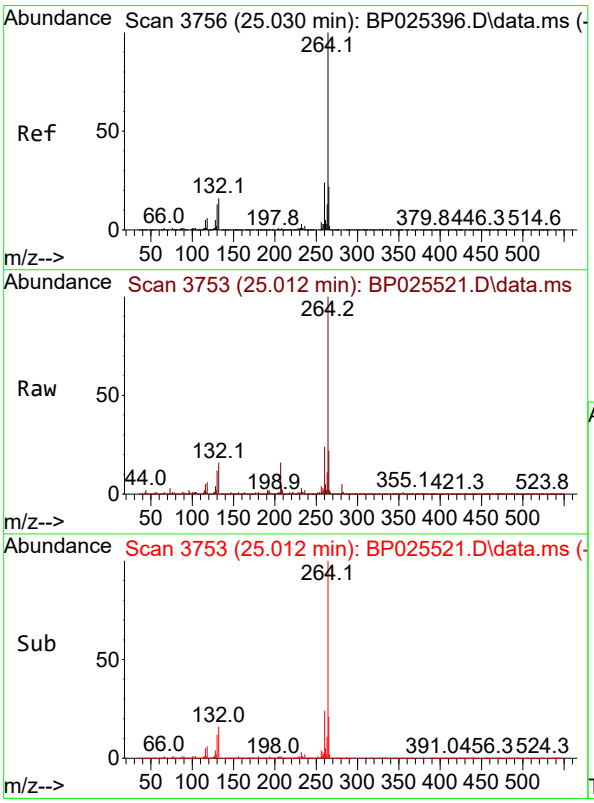
#85
Di-n-octyl phthalate
Concen: 50.164 ng
RT: 22.859 min Scan# 3
Delta R.T. -0.012 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Instrument :
BNA_P
ClientSampleId :
38M-NMSD

Tgt Ion:149 Resp: 3451915

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	8.5	6.3	9.5

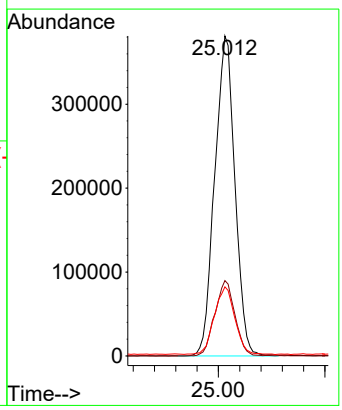


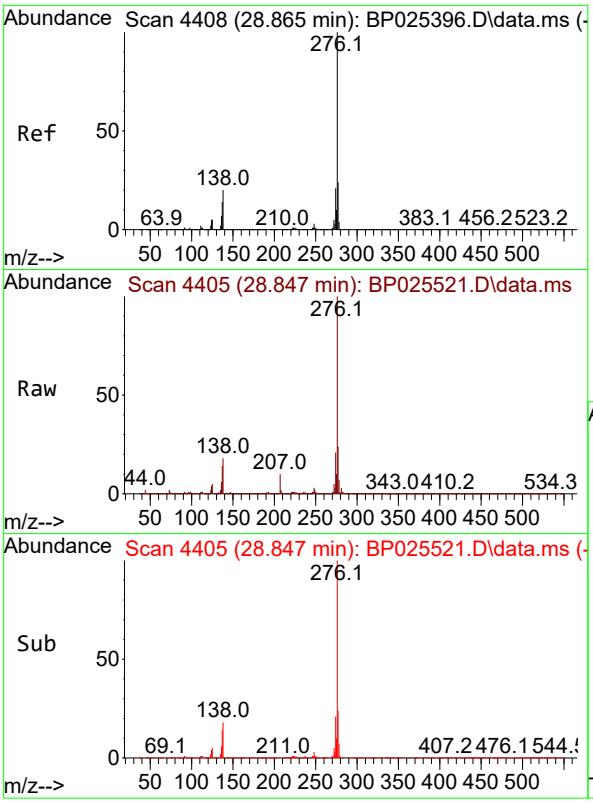


#86
Perylene-d12
Concen: 20.000 ng
RT: 25.012 min Scan# 3753
Delta R.T. -0.018 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:264 Resp: 1004402

Ion	Ratio	Lower	Upper
264	100		
260	23.5	19.3	28.9
265	21.6	17.4	26.0



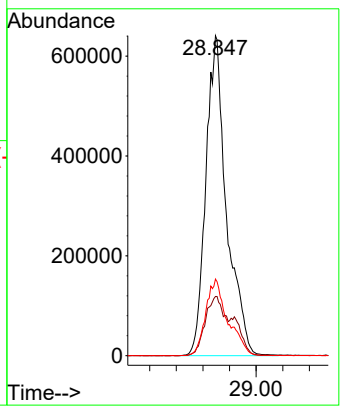


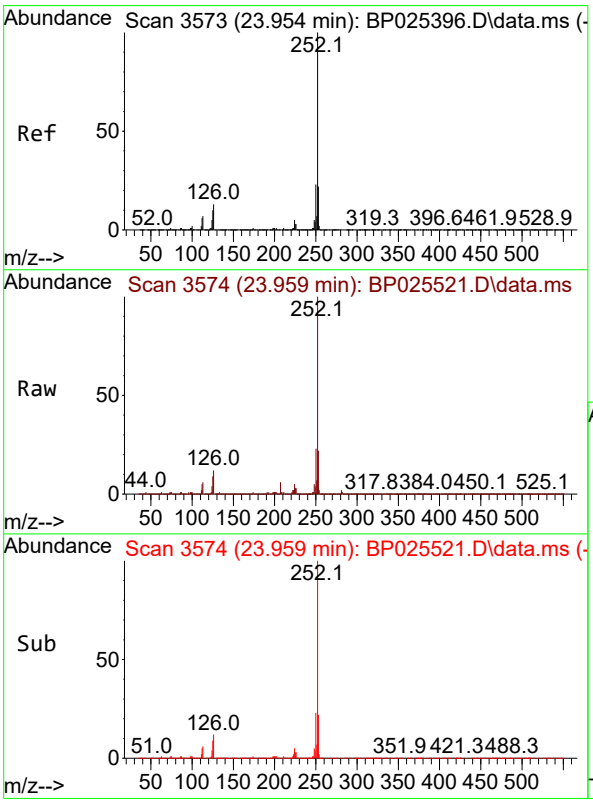
#87
Indeno(1,2,3-cd)pyrene
Concen: 46.848 ng
RT: 28.847 min Scan# 4
Delta R.T. -0.018 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Instrument :
BNA_P
ClientSampleId :
38M-NMSD

Tgt Ion:276 Resp: 3450790

Ion	Ratio	Lower	Upper
276	100		
138	17.9	12.9	19.3
277	25.6	17.0	25.6

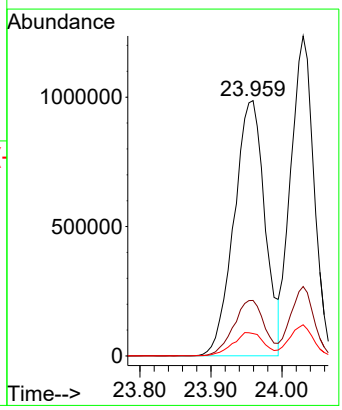


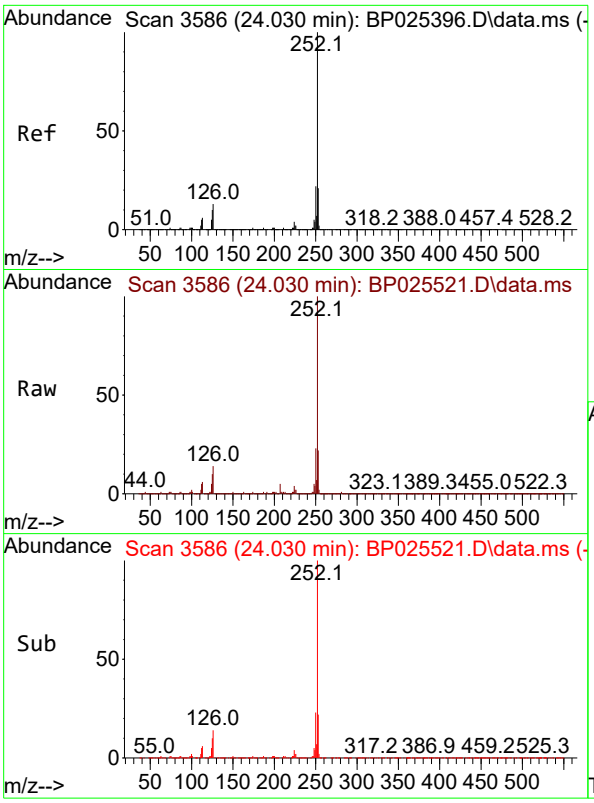


#88
Benzo(b)fluoranthene
Concen: 50.411 ng
RT: 23.959 min Scan# 3574
Delta R.T. 0.006 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:252 Resp: 2985647

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.7	26.5
125	8.8	7.9	11.9



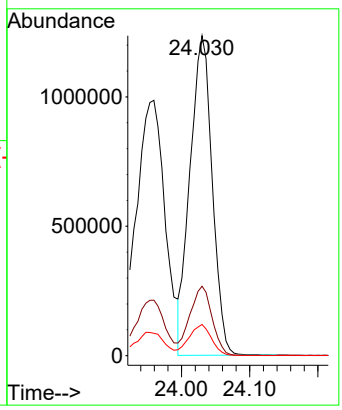


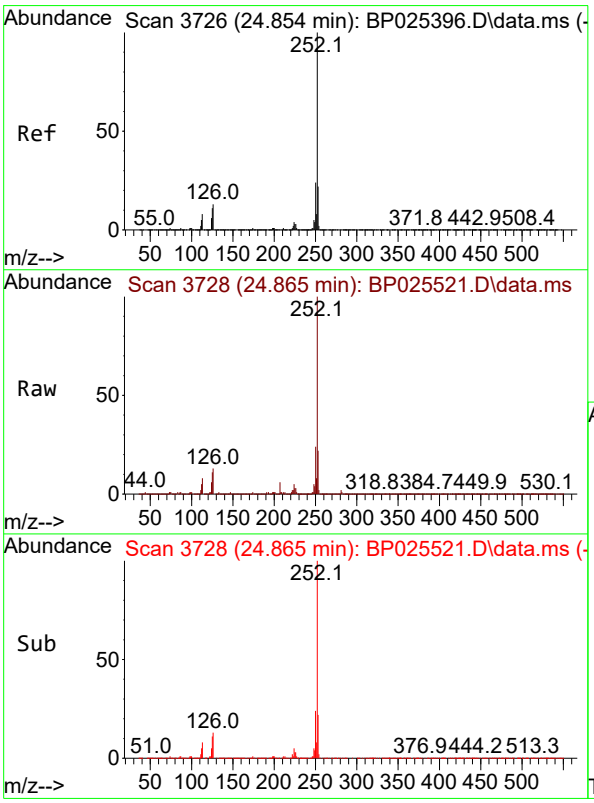
#89
Benzo(k)fluoranthene
Concen: 47.046 ng
RT: 24.030 min Scan# 3
Delta R.T. -0.000 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Instrument :
BNA_P
ClientSampleId :
38M-NMSD

Tgt Ion:252 Resp: 2788266

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.1	25.7
125	9.8	7.8	11.6

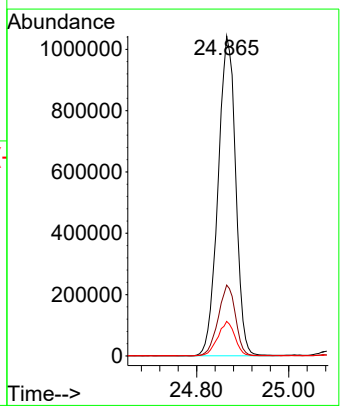


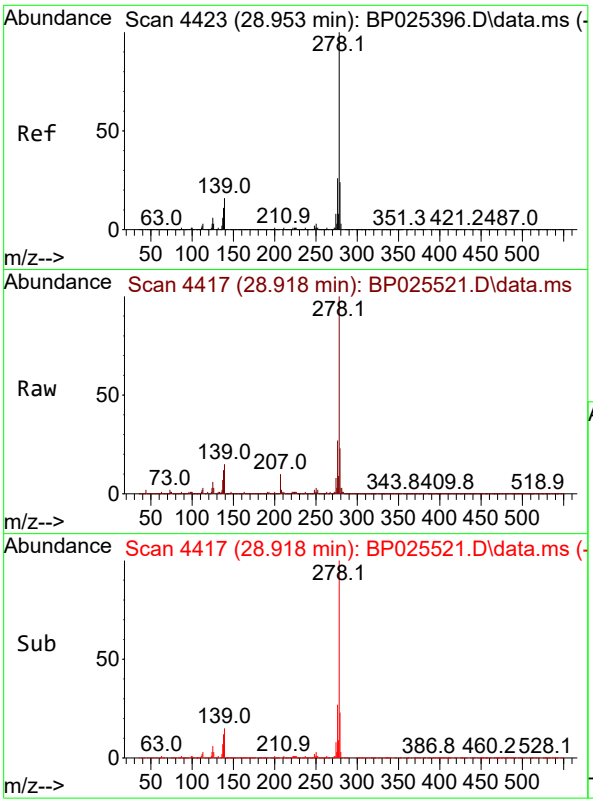


#90
Benzo(a)pyrene
Concen: 47.856 ng
RT: 24.865 min Scan# 3728
Delta R.T. 0.012 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:252 Resp: 2759047

Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.5	26.3
125	10.8	8.7	13.1



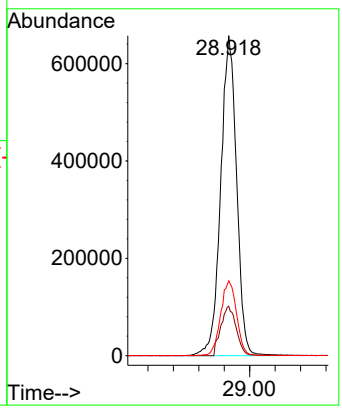


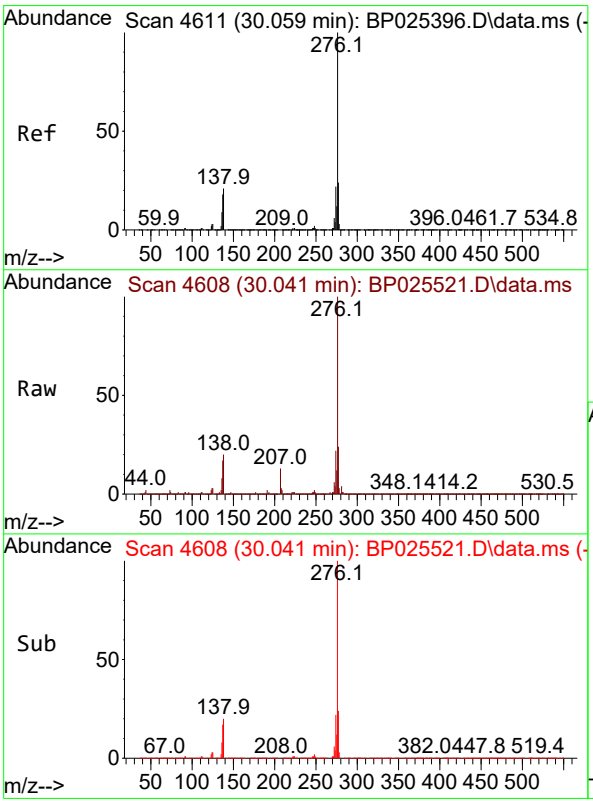
#91
Dibenzo(a,h)anthracene
Concen: 47.312 ng
RT: 28.918 min Scan# 4
Delta R.T. -0.036 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Instrument :
BNA_P
ClientSampleId :
38M-NMSD

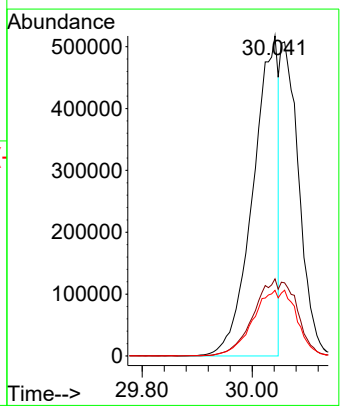
Tgt Ion:278 Resp: 2847919

Ion	Ratio	Lower	Upper
278	100		
139	15.5	13.0	19.4
279	23.4	19.4	29.2





#92
Benzo(g,h,i)perylene
Concen: 27.659 ng
RT: 30.041 min Scan# 4608
Delta R.T. -0.018 min
Lab File: BP025521.D
Acq: 21 Aug 2025 00:35

Tgt Ion:276 Resp: 1636612

Ion	Ratio	Lower	Upper
276	100		
277	24.1	19.4	29.0
138	20.5	16.7	25.1