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

DATA PACKAGE

SEMI-VOLATILE ORGANICS

PROJECT NAME : NAVFAC NWIRP BETHPAGE, NY SITE 1 OU-2 - 32258

AECOM TECHNICAL SERVICES, INC.

13640 Briarwick Drive

Austin, TX - 78729

Phone No: 512-454-4797

ORDER ID : Q2299

ATTENTION : Eleanor Vivadou

Laboratory Certification ID # 20012

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Cover Page

Order ID : Q2299

Project ID : NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258

Client : AECOM Technical Services, Inc.

Lab Sample Number	Client Sample Number
Q2299-01	RE117D1-20250609
Q2299-02	RE117D2-20250609
Q2299-03	TT191D1-20250609MS
Q2299-04	TT191D1-20250609MSD
Q2299-05	TT191D1-20250609
Q2299-06	TT191D2-20250609
Q2299-07	RW10-MW01S-20250609
Q2299-08	RW10-MW01D-20250609
Q2299-09	RW10A-MW01S-20250609
Q2299-10	RW10A-MW01I-20250609
Q2299-11	TT158I1-20250610
Q2299-12	DUP01-20250610
Q2299-13	RE131D2-20250610
Q2299-14	DUP02-20250610
Q2299-15	TT174I1-20250610
Q2299-16	RE134D4-20250610
Q2299-17	RE134D3-20250610
Q2299-18	TT190D1-20250611
Q2299-19	RW11-MW01I-20250611
Q2299-20	RW11-MW01S-20250611
Q2299-21	RE134D1-20250611
Q2299-22	TT190D2-20250611

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: 6/24/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

AECOM Technical Services, Inc.
Project Name: NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258
Project # N/A
Order ID # Q2299
Test Name: SVOC-SIMGroup1

A. Number of Samples and Date of Receipt:
22 Water samples were received on 06/11/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: SVOC-SIMGroup1 and VOCMS Group1. This data package contains results for SVOC-SIMGroup1.

C. Analytical Techniques:
The samples were analyzed on instrument BNA_N using GC Column ZB-SemiVolatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGAThe analysis of SVOC-SIMGroup1 was based on method 8270-Modified and extraction was done based on method 3510.

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

The Surrogate recoveries met the acceptable criteria except for RW10A-MW01S-20250609 [Terphenyl-d14 - 136%], TT158I1-20250610 [Terphenyl-d14 - 142%], DUP01-20250610 [Terphenyl-d14 - 182%], RE131D2-20250610DL [Terphenyl-d14 - 151%], DUP02-20250610 [Terphenyl-d14 - 212%], DUP02-20250610DL [Nitrobenzene-d5 - 49% and Terphenyl-d14 - 288%],These failure surrogates are not associated with the client list, as per criteria affected surrogates were passing, therefore nocorrective action was taken.

The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.

The MS {Q2299-03MS} with File ID: BN037246.D recoveries met the requirements for all compounds except for 1,4-Dioxane[-50%],due to matrix interference.

The MSD {Q2299-04MSD} with File ID: BN037247.D recoveries met the acceptable requirements except for 1,4-Dioxane[0%],due to matrix interference.

The RPD for {Q2299-04MSD} with File ID: BN037247.D met criteria except for 1,4-Dioxane[200%],due to difference in results of MS and MSD.

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The Blank Spike met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .
The Continuous Calibration met the requirements .
The Tuning criteria met requirements.

Samples RE131D2-20250610, DUP02-20250610 and RE134D3-20250610 were diluted due to high concentrations.

E. Additional Comments:
The sample # TT191D1-20250609MS and TT191D1-20250609MSD is failing for 1,4-Dioxane and the original sample(TT191D1-20250609) is reported with M flag for this compounds.
The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.
The not QT review data is reported in the Miscellaneous.

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

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

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

Signature_____

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DATA REPORTING QUALIFIERS- ORGANIC

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

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

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

ORDER ID: Q2299 MATRIX: Water

METHOD: 8270-Modified/3510

		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 Initial Calibration met the requirements .			
	The Continuous Calibration met the requirements .			
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
7.	Surrogate Recoveries Meet Criteria		✓	
	If not met, list those compounds and their recoveries which fall outside the acceptable ranges.			
	The Surrogate recoveries met the acceptable criteria except for RW10A-MW01S-20250609 [Terphenyl-d14 - 136%], TT158I1-20250610 [Terphenyl-d14 - 142%], DUP01-20250610 [Terphenyl-d14 - 182%], RE131D2-20250610DL [Terphenyl-d14 - 151%], DUP02-20250610 [Terphenyl-d14 - 212%], DUP02-20250610DL [Nitrobenzene-d5 - 49% and Terphenyl-d14 - 288%],These failure surrogates are not associated with the client list, as per criteria affected surrogates were passing, therefore nocorrective action was taken.			

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

		NA	NO	YES
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 MS {Q2299-03MS} with File ID: BN037246.D recoveries met the requirements for all compounds except for 1,4-Dioxane[-50%],due to matrix interference.			
	The MSD {Q2299-04MSD} with File ID: BN037247.D recoveries met the acceptable requirements except for 1,4-Dioxane[0%],due to matrix interference.			
	The Blank Spike met requirements for all samples .			
	The RPD for {Q2299-04MSD} with File ID: BN037247.D met criteria except for 1,4-Dioxane[200%],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:

The sample # TT191D1-20250609MS and TT191D1-20250609MSD is failing for 1,4-Dioxane and the original sample(TT191D1-20250609) is reported with M flag for this compounds.

Samples RE131D2-20250610, DUP02-20250610 and RE134D3-20250610 were diluted due to high concentrations.

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

The not QT review data is reported in the Miscellaneous.

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 #: Q2299

	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:** 06/24/2025

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LAB CHRONICLE

OrderID:	Q2299	**OrderDate:**	6/12/2025 12:06:00 PM
Client:	AECOM Technical Services, Inc.	**Project:**	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258
Contact:	Eleanor Vivadou	**Location:**	D41,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2299-01	**RE117D1-20250609**	**Water**			**06/09/25**			**06/11/25**
			SVOC-SIMGroup1	8270-Modified		06/13/25	06/14/25	
Q2299-02	**RE117D2-20250609**	**Water**			**06/09/25**			**06/11/25**
			SVOC-SIMGroup1	8270-Modified		06/13/25	06/14/25	
Q2299-05	**TT191D1-20250609**	**Water**			**06/09/25**			**06/11/25**
			SVOC-SIMGroup1	8270-Modified		06/13/25	06/14/25	
Q2299-06	**TT191D2-20250609**	**Water**			**06/09/25**			**06/11/25**
			SVOC-SIMGroup1	8270-Modified		06/13/25	06/14/25	
Q2299-07	**RW10-MW01S-20250609**	**Water**			**06/09/25**			**06/11/25**
			SVOC-SIMGroup1	8270-Modified		06/13/25	06/14/25	
Q2299-08	**RW10-MW01D-20250609**	**Water**			**06/09/25**			**06/11/25**
			SVOC-SIMGroup1	8270-Modified		06/13/25	06/14/25	
Q2299-09	**RW10A-MW01S-20250609**	**Water**			**06/09/25**			**06/11/25**
			SVOC-SIMGroup1	8270-Modified		06/13/25	06/14/25	
Q2299-10	**RW10A-MW01I-20250609**	**Water**			**06/09/25**			**06/11/25**
			SVOC-SIMGroup1	8270-Modified		06/13/25	06/14/25	
Q2299-11	**TT158I1-20250610**	**Water**			**06/10/25**			**06/11/25**
			SVOC-SIMGroup1	8270-Modified		06/13/25	06/14/25	
Q2299-12	**DUP01-20250610**	**Water**			**06/10/25**			**06/11/25**
			SVOC-SIMGroup1	8270-Modified		06/13/25	06/14/25	

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LAB CHRONICLE

Q2299-13	**RE131D2-20250610**	**Water**			**06/10/25**			**06/11/25**
			SVOC-SIMGroup1	8270-Modified		06/13/25	06/14/25	
Q2299-13DL	**RE131D2-20250610DL**	**Water**			**06/10/25**			**06/11/25**
			SVOC-SIMGroup1	8270-Modified		06/13/25	06/16/25	
Q2299-14	**DUP02-20250610**	**Water**			**06/10/25**			**06/11/25**
			SVOC-SIMGroup1	8270-Modified		06/13/25	06/14/25	
Q2299-14DL	**DUP02-20250610DL**	**Water**			**06/10/25**			**06/11/25**
			SVOC-SIMGroup1	8270-Modified		06/13/25	06/16/25	
Q2299-15	**TT174I1-20250610**	**Water**			**06/10/25**			**06/11/25**
			SVOC-SIMGroup1	8270-Modified		06/13/25	06/14/25	
Q2299-16	**RE134D4-20250610**	**Water**			**06/10/25**			**06/11/25**
			SVOC-SIMGroup1	8270-Modified		06/13/25	06/14/25	
Q2299-17	**RE134D3-20250610**	**Water**			**06/10/25**			**06/11/25**
			SVOC-SIMGroup1	8270-Modified		06/13/25	06/14/25	
Q2299-17DL	**RE134D3-20250610DL**	**Water**			**06/10/25**			**06/11/25**
			SVOC-SIMGroup1	8270-Modified		06/13/25	06/16/25	
Q2299-18	**TT190D1-20250611**	**Water**			**06/11/25**			**06/11/25**
			SVOC-SIMGroup1	8270-Modified		06/13/25	06/14/25	
Q2299-19	**RW11-MW01I-20250611**	**Water**			**06/11/25**			**06/11/25**
			SVOC-SIMGroup1	8270-Modified		06/13/25	06/14/25	
Q2299-20	**RW11-MW01S-20250611**	**Water**			**06/11/25**			**06/11/25**
			SVOC-SIMGroup1	8270-Modified		06/13/25	06/14/25	
Q2299-21	**RE134D1-20250611**	**Water**			**06/11/25**			**06/11/25**
			SVOC-SIMGroup1	8270-Modified		06/13/25	06/14/25	
Q2299-22	**TT190D2-20250611**	**Water**			**06/11/25**			**06/11/25**
			SVOC-SIMGroup1	8270-Modified		06/13/25	06/14/25	

Alliance TECHNICAL GROUP
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Hit Summary Sheet
SW-846

SDG No.: Q2299

Client: AECOM Technical Services, Inc.

Sample ID	Client ID		Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : RE117D1-20250609									
Q2299-01	RE117D1-20250609	WATER	1,4-Dioxane	0.630		0.07	0.2	0.2	ug/L
			Total Svoc :	**0.63**					
			Total Concentration:	**0.63**					
Client ID : TT191D1-20250609									
Q2299-05	TT191D1-20250609	WATER	1,4-Dioxane	2.300	M	0.07	0.2	0.2	ug/L
			Total Svoc :	**2.30**					
			Total Concentration:	**2.30**					
Client ID : TT191D2-20250609									
Q2299-06	TT191D2-20250609	WATER	1,4-Dioxane	0.370		0.07	0.2	0.2	ug/L
			Total Svoc :	**0.37**					
			Total Concentration:	**0.37**					
Client ID : RW10-MW01S-20250609									
Q2299-07	RW10-MW01S-2025060	WATER	1,4-Dioxane	0.090	J	0.07	0.2	0.2	ug/L
			Total Svoc :	**0.09**					
			Total Concentration:	**0.09**					
Client ID : RW10A-MW01S-20250609									
Q2299-09	RW10A-MW01S-202506	WATER	1,4-Dioxane	0.150	J	0.07	0.21	0.21	ug/L
			Total Svoc :	**0.15**					
			Total Concentration:	**0.15**					
Client ID : RE131D2-20250610									
Q2299-13	RE131D2-20250610	WATER	1,4-Dioxane	10.200	E	0.07	0.2	0.2	ug/L
			Total Svoc :	**10.20**					
			Total Concentration:	**10.20**					
Client ID : RE131D2-20250610DL									
Q2299-13DL	RE131D2-20250610DL	WATER	1,4-Dioxane	13.200	D	0.33	1	1	ug/L
			Total Svoc :	**13.20**					
			Total Concentration:	**13.20**					
Client ID : DUP02-20250610									
Q2299-14	DUP02-20250610	WATER	1,4-Dioxane	8.400	E	0.07	0.2	0.2	ug/L
			Total Svoc :	**8.40**					
			Total Concentration:	**8.40**					
Client ID : DUP02-20250610DL									
Q2299-14DL	DUP02-20250610DL	WATER	1,4-Dioxane	11.100	D	0.33	1	1	ug/L
			Total Svoc :	**11.10**					

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Fax : 908 789 8922

Hit Summary Sheet
SW-846

SDG No.: Q2299

Client: AECOM Technical Services, Inc.

Sample ID	Client ID		Parameter	Concentration	C	MDL	LOD	RDL	Units
			Total Concentration:			**11.10**			
Client ID :	**TT174I1-20250610**								
Q2299-15	TT174I1-20250610	WATER	1,4-Dioxane	0.600		0.07	0.2	0.2	ug/L
			Total Svoc :			**0.60**			
			Total Concentration:			**0.60**			
Client ID :	**RE134D4-20250610**								
Q2299-16	RE134D4-20250610	WATER	1,4-Dioxane	1.700		0.07	0.2	0.2	ug/L
			Total Svoc :			**1.70**			
			Total Concentration:			**1.70**			
Client ID :	**RE134D3-20250610**								
Q2299-17	RE134D3-20250610	WATER	1,4-Dioxane	6.700	E	0.07	0.2	0.2	ug/L
			Total Svoc :			**6.70**			
			Total Concentration:			**6.70**			
Client ID :	**RE134D3-20250610DL**								
Q2299-17DL	RE134D3-20250610DL	WATER	1,4-Dioxane	6.600	D	0.13	0.4	0.4	ug/L
			Total Svoc :			**6.60**			
			Total Concentration:			**6.60**			
Client ID :	**TT190D1-20250611**								
Q2299-18	TT190D1-20250611	WATER	1,4-Dioxane	1.400		0.07	0.2	0.2	ug/L
			Total Svoc :			**1.40**			
			Total Concentration:			**1.40**			
Client ID :	**RE134D1-20250611**								
Q2299-21	RE134D1-20250611	WATER	1,4-Dioxane	0.910		0.07	0.21	0.21	ug/L
			Total Svoc :			**0.91**			
			Total Concentration:			**0.91**			
Client ID :	**TT190D2-20250611**								
Q2299-22	TT190D2-20250611	WATER	1,4-Dioxane	1.300		0.07	0.2	0.2	ug/L
			Total Svoc :			**1.30**			
			Total Concentration:			**1.30**			

QC SUMMARY

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Surrogate Summary

SW-846

SDG No.: Q2299

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	High
PB168458BL	PB168458BL	2-Methylnaphthalene-d10	0.4	0.33	82		30	150
		Fluoranthene-d10	0.4	0.37	92		30	150
		Nitrobenzene-d5	0.4	0.26	65		55	111
		2-Fluorobiphenyl	0.4	0.33	81		53	106
		Terphenyl-d14	0.4	0.39	98		58	132
PB168458BS	PB168458BS	2-Methylnaphthalene-d10	0.4	0.41	102		30	150
		Fluoranthene-d10	0.4	0.34	85		30	150
		Nitrobenzene-d5	0.4	0.36	90		55	111
		2-Fluorobiphenyl	0.4	0.37	93		53	106
		Terphenyl-d14	0.4	0.38	94		58	132
Q2299-01	RE117D1-20250609	2-Methylnaphthalene-d10	0.4	0.28	70		30	150
		Fluoranthene-d10	0.4	0.39	98		30	150
		Nitrobenzene-d5	0.4	0.26	65		55	111
		2-Fluorobiphenyl	0.4	0.27	68		53	106
		Terphenyl-d14	0.4	0.39	98		58	132
Q2299-02	RE117D2-20250609	2-Methylnaphthalene-d10	0.4	0.33	81		30	150
		Fluoranthene-d10	0.4	0.39	97		30	150
		Nitrobenzene-d5	0.4	0.28	70		55	111
		2-Fluorobiphenyl	0.4	0.33	81		53	106
		Terphenyl-d14	0.4	0.45	112		58	132
Q2299-03MS	TT191D1-20250609MS	2-Methylnaphthalene-d10	0.4	0.26	66		30	150
		Fluoranthene-d10	0.4	0.35	86		30	150
		Nitrobenzene-d5	0.4	0.29	72		55	111
		2-Fluorobiphenyl	0.4	0.30	74		53	106
		Terphenyl-d14	0.4	0.42	105		58	132
Q2299-04MSD	TT191D1-20250609MSD	2-Methylnaphthalene-d10	0.4	0.28	69		30	150
		Fluoranthene-d10	0.4	0.38	94		30	150
		Nitrobenzene-d5	0.4	0.28	69		55	111
		2-Fluorobiphenyl	0.4	0.30	75		53	106
		Terphenyl-d14	0.4	0.43	106		58	132
Q2299-05	TT191D1-20250609	2-Methylnaphthalene-d10	0.4	0.27	68		30	150
		Fluoranthene-d10	0.4	0.39	98		30	150
		Nitrobenzene-d5	0.4	0.25	61		55	111
		2-Fluorobiphenyl	0.4	0.27	67		53	106
		Terphenyl-d14	0.4	0.48	119		58	132
Q2299-06	TT191D2-20250609	2-Methylnaphthalene-d10	0.4	0.25	61		30	150
		Fluoranthene-d10	0.4	0.34	84		30	150
		Nitrobenzene-d5	0.4	0.23	57		55	111
		2-Fluorobiphenyl	0.4	0.25	63		53	106
		Terphenyl-d14	0.4	0.45	112		58	132
Q2299-07	RW10-MW01S-20250609	2-Methylnaphthalene-d10	0.4	0.28	70		30	150
		Fluoranthene-d10	0.4	0.38	95		30	150
		Nitrobenzene-d5	0.4	0.25	63		55	111
		2-Fluorobiphenyl	0.4	0.28	70		53	106
		Terphenyl-d14	0.4	0.45	113		58	132
Q2299-08	RW10-MW01D-20250609	2-Methylnaphthalene-d10	0.4	0.28	69		30	150
		Fluoranthene-d10	0.4	0.37	91		30	150
		Nitrobenzene-d5	0.4	0.25	62		55	111
		2-Fluorobiphenyl	0.4	0.31	76		53	106
		Terphenyl-d14	0.4	0.45	113		58	132
Q2299-09	RW10A-MW01S-20250609	2-Methylnaphthalene-d10	0.4	0.32	79		30	150

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Surrogate Summary

SW-846

SDG No.: Q2299

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
Q2299-09	RW10A-MW01S-20250609	Fluoranthene-d10	0.4	0.35	88		30	150
		Nitrobenzene-d5	0.4	0.29	72		55	111
		2-Fluorobiphenyl	0.4	0.34	86		53	106
		Terphenyl-d14	0.4	0.54	136	*	58	132
Q2299-10	RW10A-MW01I-20250609	2-Methylnaphthalene-d10	0.4	0.33	83		30	150
		Fluoranthene-d10	0.4	0.37	93		30	150
		Nitrobenzene-d5	0.4	0.32	81		55	111
		2-Fluorobiphenyl	0.4	0.36	91		53	106
		Terphenyl-d14	0.4	0.47	117		58	132
Q2299-11	TT158I1-20250610	2-Methylnaphthalene-d10	0.4	0.29	73		30	150
		Fluoranthene-d10	0.4	0.37	91		30	150
		Nitrobenzene-d5	0.4	0.25	62		55	111
		2-Fluorobiphenyl	0.4	0.31	78		53	106
		Terphenyl-d14	0.4	0.57	142	*	58	132
Q2299-12	DUP01-20250610	2-Methylnaphthalene-d10	0.4	0.29	72		30	150
		Fluoranthene-d10	0.4	0.38	95		30	150
		Nitrobenzene-d5	0.4	0.27	67		55	111
		2-Fluorobiphenyl	0.4	0.30	76		53	106
		Terphenyl-d14	0.4	0.73	182	*	58	132
Q2299-13	RE131D2-20250610	2-Methylnaphthalene-d10	0.4	0.33	82		30	150
		Fluoranthene-d10	0.4	0.39	96		30	150
		Nitrobenzene-d5	0.4	0.30	75		55	111
		2-Fluorobiphenyl	0.4	0.35	86		53	106
		Terphenyl-d14	0.4	0.45	112		58	132
Q2299-13DL	RE131D2-20250610DL	2-Methylnaphthalene-d10	0.4	0.38	94		30	150
		Fluoranthene-d10	0.4	0.49	123		30	150
		Nitrobenzene-d5	0.4	0.27	68		55	111
		2-Fluorobiphenyl	0.4	0.39	96		53	106
		Terphenyl-d14	0.4	0.61	151	*	58	132
Q2299-14	DUP02-20250610	2-Methylnaphthalene-d10	0.4	0.27	68		30	150
		Fluoranthene-d10	0.4	0.35	88		30	150
		Nitrobenzene-d5	0.4	0.26	64		55	111
		2-Fluorobiphenyl	0.4	0.28	71		53	106
		Terphenyl-d14	0.4	0.85	212	*	58	132
Q2299-14DL	DUP02-20250610DL	2-Methylnaphthalene-d10	0.4	0.31	76		30	150
		Fluoranthene-d10	0.4	0.44	109		30	150
		Nitrobenzene-d5	0.4	0.20	49	*	55	111
		2-Fluorobiphenyl	0.4	0.31	77		53	106
		Terphenyl-d14	0.4	1.15	288	*	58	132
Q2299-15	TT174I1-20250610	2-Methylnaphthalene-d10	0.4	0.30	74		30	150
		Fluoranthene-d10	0.4	0.36	90		30	150
		Nitrobenzene-d5	0.4	0.25	63		55	111
		2-Fluorobiphenyl	0.4	0.31	77		53	106
		Terphenyl-d14	0.4	0.53	132		58	132
Q2299-16	RE134D4-20250610	2-Methylnaphthalene-d10	0.4	0.29	74		30	150
		Fluoranthene-d10	0.4	0.37	93		30	150
		Nitrobenzene-d5	0.4	0.26	65		55	111
		2-Fluorobiphenyl	0.4	0.31	77		53	106
		Terphenyl-d14	0.4	0.40	100		58	132
Q2299-17	RE134D3-20250610	2-Methylnaphthalene-d10	0.4	0.32	80		30	150
		Fluoranthene-d10	0.4	0.41	103		30	150

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Surrogate Summary

SW-846

SDG No.: Q2299

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
Q2299-17	RE134D3-20250610	Nitrobenzene-d5	0.4	0.29	72		55	111
		2-Fluorobiphenyl	0.4	0.32	81		53	106
		Terphenyl-d14	0.4	0.41	103		58	132
Q2299-17DL	RE134D3-20250610DL	2-Methylnaphthalene-d10	0.4	0.31	79		30	150
		Fluoranthene-d10	0.4	0.39	98		30	150
		Nitrobenzene-d5	0.4	0.28	69		55	111
		2-Fluorobiphenyl	0.4	0.30	75		53	106
		Terphenyl-d14	0.4	0.44	110		58	132
Q2299-18	TT190D1-20250611	2-Methylnaphthalene-d10	0.4	0.31	77		30	150
		Fluoranthene-d10	0.4	0.41	102		30	150
		Nitrobenzene-d5	0.4	0.28	71		55	111
		2-Fluorobiphenyl	0.4	0.31	79		53	106
		Terphenyl-d14	0.4	0.42	104		58	132
Q2299-19	RW11-MW01I-20250611	2-Methylnaphthalene-d10	0.4	0.33	81		30	150
		Fluoranthene-d10	0.4	0.40	100		30	150
		Nitrobenzene-d5	0.4	0.31	78		55	111
		2-Fluorobiphenyl	0.4	0.34	84		53	106
		Terphenyl-d14	0.4	0.46	116		58	132
Q2299-20	RW11-MW01S-20250611	2-Methylnaphthalene-d10	0.4	0.29	72		30	150
		Fluoranthene-d10	0.4	0.37	92		30	150
		Nitrobenzene-d5	0.4	0.26	65		55	111
		2-Fluorobiphenyl	0.4	0.29	72		53	106
		Terphenyl-d14	0.4	0.45	113		58	132
Q2299-21	RE134D1-20250611	2-Methylnaphthalene-d10	0.4	0.30	75		30	150
		Fluoranthene-d10	0.4	0.40	100		30	150
		Nitrobenzene-d5	0.4	0.28	69		55	111
		2-Fluorobiphenyl	0.4	0.31	78		53	106
		Terphenyl-d14	0.4	0.46	116		58	132
Q2299-22	TT190D2-20250611	2-Methylnaphthalene-d10	0.4	0.29	72		30	150
		Fluoranthene-d10	0.4	0.40	100		30	150
		Nitrobenzene-d5	0.4	0.24	60		55	111
		2-Fluorobiphenyl	0.4	0.28	71		53	106
		Terphenyl-d14	0.4	0.50	125		58	132

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2299

Client: AECOM Technical Services, Inc.

Analytical Method: SW8270-Modified

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q2299-03MS		**Client Sample ID:** TT191D1-20250609MS						**DataFile:** BN037246.D			
1,4-Dioxane	0.4	2.30	2.10	ug/L	-50	*			70	130	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2299

Client: AECOM Technical Services, Inc.

Analytical Method: SW8270-Modified

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q2299-04MSD		**Client Sample ID:** TT191D1-20250609MSD						**DataFile:** BN037247.D			
1,4-Dioxane	0.4	2.30	2.30	ug/L	0	*	200	*	70	130	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2299

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified **DataFile:** BN037270.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB168458BS	1,4-Dioxane	0.4	0.36	ug/L	90				70	130	

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB168458BL

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q2299 SAS No.: Q2299 SDG NO.: Q2299

Lab File ID: BN037241.D Lab Sample ID: PB168458BL

Instrument ID: BNA_N Date Extracted: 06/13/2025

Matrix: (soil/water) Water Date Analyzed: 06/14/2025

Level: (low/med) LOW Time Analyzed: 00:31

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB168458BS	PB168458BS	BN037270.D	06/14/2025
RE117D1-20250609	Q2299-01	BN037244.D	06/14/2025
RE117D2-20250609	Q2299-02	BN037245.D	06/14/2025
TT191D1-20250609MS	Q2299-03MS	BN037246.D	06/14/2025
TT191D1-20250609MSD	Q2299-04MSD	BN037247.D	06/14/2025
TT191D1-20250609	Q2299-05	BN037248.D	06/14/2025
TT191D2-20250609	Q2299-06	BN037249.D	06/14/2025
RW10-MW01S-20250609	Q2299-07	BN037250.D	06/14/2025
RW10-MW01D-20250609	Q2299-08	BN037251.D	06/14/2025
RW10A-MW01S-20250609	Q2299-09	BN037252.D	06/14/2025
RW10A-MW01I-20250609	Q2299-10	BN037253.D	06/14/2025
TT158I1-20250610	Q2299-11	BN037254.D	06/14/2025
DUP01-20250610	Q2299-12	BN037255.D	06/14/2025
RE131D2-20250610	Q2299-13	BN037256.D	06/14/2025
DUP02-20250610	Q2299-14	BN037261.D	06/14/2025
TT174I1-20250610	Q2299-15	BN037262.D	06/14/2025
RE134D4-20250610	Q2299-16	BN037263.D	06/14/2025
RE134D3-20250610	Q2299-17	BN037264.D	06/14/2025
TT190D1-20250611	Q2299-18	BN037265.D	06/14/2025
RW11-MW01I-20250611	Q2299-19	BN037266.D	06/14/2025
RW11-MW01S-20250611	Q2299-20	BN037267.D	06/14/2025
RE134D1-20250611	Q2299-21	BN037268.D	06/14/2025
TT190D2-20250611	Q2299-22	BN037269.D	06/14/2025

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM SAS No.: Q2299 SDG NO.: Q2299

Lab File ID: BN037223.D DFTPP Injection Date: 06/13/2025

Instrument ID: BNA_N DFTPP Injection Time: 11:34

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.7 (1.1) 1
69	Mass 69 relative abundance	100
70	Less than 2.0% of mass 69	0.3 (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	5.3
441	Present, but less than mass 443	90.1
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	12.6 (20.1) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC0.1	SSTDICC0.1	BN037225.D	06/13/2025	13:33
SSTDICC0.2	SSTDICC0.2	BN037226.D	06/13/2025	14:10
SSTDICCC0.4	SSTDICCC0.4	BN037227.D	06/13/2025	14:46
SSTDICC0.8	SSTDICC0.8	BN037228.D	06/13/2025	15:22
SSTDICC1.6	SSTDICC1.6	BN037229.D	06/13/2025	15:59
SSTDICC3.2	SSTDICC3.2	BN037230.D	06/13/2025	16:35
SSTDICC5.0	SSTDICC5.0	BN037231.D	06/13/2025	17:11

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SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM SAS No.: Q2299 SDG NO.: Q2299

Lab File ID: BN037239.D DFTPP Injection Date: 06/13/2025

Instrument ID: BNA_N DFTPP Injection Time: 23:16

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.7 (1) 1
69	Mass 69 relative abundance	100
70	Less than 2.0% of mass 69	0.4 (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	6.5
365	Greater than 1% of mass 198	4.7
441	Present, but less than mass 443	83.9
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	10.3 (21.5) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN037240.D	06/13/2025	23:55
PB168458BL	PB168458BL	BN037241.D	06/14/2025	00:31
RE117D1-20250609	Q2299-01	BN037244.D	06/14/2025	02:20
RE117D2-20250609	Q2299-02	BN037245.D	06/14/2025	02:56
TT191D1-20250609MS	Q2299-03MS	BN037246.D	06/14/2025	03:32
TT191D1-20250609MSD	Q2299-04MSD	BN037247.D	06/14/2025	04:08
TT191D1-20250609	Q2299-05	BN037248.D	06/14/2025	04:45
TT191D2-20250609	Q2299-06	BN037249.D	06/14/2025	05:21
RW10-MW01S-20250609	Q2299-07	BN037250.D	06/14/2025	05:57
RW10-MW01D-20250609	Q2299-08	BN037251.D	06/14/2025	06:33
RW10A-MW01S-20250609	Q2299-09	BN037252.D	06/14/2025	07:09
RW10A-MW01I-20250609	Q2299-10	BN037253.D	06/14/2025	07:46
TT158I1-20250610	Q2299-11	BN037254.D	06/14/2025	08:22
DUP01-20250610	Q2299-12	BN037255.D	06/14/2025	08:58
RE131D2-20250610	Q2299-13	BN037256.D	06/14/2025	09:34
SSTDCCC0.4EC	SSTDCCC0.4	BN037257.D	06/14/2025	10:10

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM SAS No.: Q2299 SDG NO.: Q2299

Lab File ID: BN037258.D DFTPP Injection Date: 06/14/2025

Instrument ID: BNA_N DFTPP Injection Time: 12:44

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	1 (1.5) 1
69	Mass 69 relative abundance	100
70	Less than 2.0% of mass 69	0.4 (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	7.3
365	Greater than 1% of mass 198	5.4
441	Present, but less than mass 443	84.6
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	11.1 (18.3) 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
SSTDCCC0.4	SSTDCCC0.4	BN037259.D	06/14/2025	13:23
DUP02-20250610	Q2299-14	BN037261.D	06/14/2025	14:35
TT174I1-20250610	Q2299-15	BN037262.D	06/14/2025	15:11
RE134D4-20250610	Q2299-16	BN037263.D	06/14/2025	15:47
RE134D3-20250610	Q2299-17	BN037264.D	06/14/2025	16:23
TT190D1-20250611	Q2299-18	BN037265.D	06/14/2025	17:00
RW11-MW01I-20250611	Q2299-19	BN037266.D	06/14/2025	17:36
RW11-MW01S-20250611	Q2299-20	BN037267.D	06/14/2025	18:12
RE134D1-20250611	Q2299-21	BN037268.D	06/14/2025	18:48
TT190D2-20250611	Q2299-22	BN037269.D	06/14/2025	19:24
PB168458BS	PB168458BS	BN037270.D	06/14/2025	20:00
SSTDCCC0.4EC	SSTDCCC0.4	BN037271.D	06/14/2025	20:36

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM SAS No.: Q2299 SDG NO.: Q2299

Lab File ID: BN037283.D DFTPP Injection Date: 06/16/2025

Instrument ID: BNA_N DFTPP Injection Time: 09:44

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.6 (0.9) 1
69	Mass 69 relative abundance	100
70	Less than 2.0% of mass 69	0.3 (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	5.1
441	Present, but less than mass 443	92.0
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	10.3 (17.3) 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
SSTDCCC0.4	SSTDCCC0.4	BN037284.D	06/16/2025	10:23
RE134D3-20250610DL	Q2299-17DL	BN037286.D	06/16/2025	11:39
RE131D2-20250610DL	Q2299-13DL	BN037287.D	06/16/2025	12:15
DUP02-20250610DL	Q2299-14DL	BN037288.D	06/16/2025	12:51
SSTDCCC0.4EC	SSTDCCC0.4	BN037289.D	06/16/2025	13:53

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2299 SAS No.: Q2299 SDG NO.: Q2299

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 06/13/2025

Lab File ID: BN037240.D Time Analyzed: 23:55

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

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	1101	7.582	2581	10.35	1319	14.22
	UPPER LIMIT	2202	8.082	5162	10.851	2638	14.724
	LOWER LIMIT	550.5	7.082	1290.5	9.851	659.5	13.724
	EPA SAMPLE NO.						
01	PB168458BL	1034	7.58	2349	10.36	1253	14.24
02	RE117D1-20250609	786	7.58	1976	10.36	1112	14.22
03	RE117D2-20250609	884	7.58	2161	10.36	1194	14.22
04	TT191D1-20250609MS	952	7.58	2349	10.35	1209	14.22
05	TT191D1-20250609MSD	888	7.58	2241	10.35	1184	14.22
06	TT191D1-20250609	959	7.58	2360	10.36	1260	14.22
07	TT191D2-20250609	966	7.58	2320	10.36	1237	14.22
08	RW10-MW01S-20250609	913	7.58	2259	10.36	1194	14.22
09	RW10-MW01D-20250609	978	7.58	2447	10.36	1301	14.22
10	RW10A-MW01S-20250609	993	7.58	2388	10.35	1287	14.22
11	RW10A-MW01I-20250609	968	7.58	2339	10.36	1252	14.22
12	TT158I1-20250610	883	7.58	2223	10.36	1185	14.22
13	DUP01-20250610	902	7.58	2240	10.36	1189	14.22
14	RE131D2-20250610	1021	7.58	2392	10.36	1295	14.22

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

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

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

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2299 SAS No.: Q2299 SDG NO.: Q2299

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 06/13/2025

Lab File ID: BN037240.D Time Analyzed: 23:55

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

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	2396	16.971	1787	21.171	1797	23.36
	UPPER LIMIT	4792	17.471	3574	21.671	3594	23.86
	LOWER LIMIT	1198	16.471	893.5	20.671	898.5	22.86
	EPA SAMPLE NO.						
01	PB168458BL	2010	16.98	1424	21.18	1183	23.37
02	RE117D1-20250609	2088	16.98	1833	21.18	1896	23.36
03	RE117D2-20250609	2020	16.98	1612	21.18	1755	23.36
04	TT191D1-20250609MS	2152	16.97	1734	21.17	1757	23.36
05	TT191D1-20250609MSD	2199	16.97	1956	21.17	1969	23.36
06	TT191D1-20250609	2273	16.98	1959	21.17	2013	23.36
07	TT191D2-20250609	2179	16.98	1692	21.17	1750	23.36
08	RW10-MW01S-20250609	2140	16.97	1781	21.17	1845	23.36
09	RW10-MW01D-20250609	2259	16.97	1680	21.18	1691	23.36
10	RW10A-MW01S-20250609	2304	16.97	1687	21.17	1690	23.36
11	RW10A-MW01I-20250609	2096	16.97	1604	21.18	1645	23.36
12	TT158I1-20250610	1991	16.97	1557	21.18	1567	23.36
13	DUP01-20250610	2107	16.97	1643	21.18	1624	23.36
14	RE131D2-20250610	2221	16.97	1842	21.18	1819	23.36

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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* Values outside of QC limits.

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2299 SAS No.: Q2299 SDG NO.: Q2299

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 06/14/2025

Lab File ID: BN037259.D Time Analyzed: 13:23

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

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	1044	7.575	2562	10.35	1268	14.22
	UPPER LIMIT	2088	8.075	5124	10.851	2536	14.724
	LOWER LIMIT	522	7.075	1281	9.851	634	13.724
	EPA SAMPLE NO.						
01	PB168458BS	1588	7.58	3911	10.35	1944	14.22
02	DUP02-20250610	856	7.58	2177	10.35	1128	14.22
03	TT174I1-20250610	939	7.58	2285	10.36	1178	14.22
04	RE134D4-20250610	977	7.58	2442	10.35	1265	14.22
05	RE134D3-20250610	1012	7.58	2458	10.35	1295	14.22
06	TT190D1-20250611	1132	7.58	2844	10.35	1545	14.22
07	RW11-MW01I-20250611	1325	7.58	3321	10.35	1702	14.22
08	RW11-MW01S-20250611	1398	7.58	3634	10.35	1888	14.22
09	RE134D1-20250611	1239	7.58	3144	10.35	1632	14.22
10	TT190D2-20250611	1248	7.58	3038	10.35	1624	14.22

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

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

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

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2299 SAS No.: Q2299 SDG NO.: Q2299

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 06/14/2025

Lab File ID: BN037259.D Time Analyzed: 13:23

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

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	2318	16.971	1702	21.171	1789	23.36
	UPPER LIMIT	4636	17.471	3404	21.671	3578	23.86
	LOWER LIMIT	1159	16.471	851	20.671	894.5	22.86
	EPA SAMPLE NO.						
01	PB168458BS	3410	16.97	2495	21.17	2298	23.36
02	DUP02-20250610	2247	16.97	1734	21.17	1724	23.36
03	TT174I1-20250610	2047	16.97	1682	21.17	1693	23.36
04	RE134D4-20250610	2241	16.97	1763	21.18	1807	23.36
05	RE134D3-20250610	2300	16.97	2027	21.17	2087	23.36
06	TT190D1-20250611	2840	16.97	2558	21.17	2398	23.36
07	RW11-MW01I-20250611	3112	16.97	2629	21.17	2551	23.36
08	RW11-MW01S-20250611	3453	16.97	2450	21.17	2246	23.36
09	RE134D1-20250611	2957	16.97	2278	21.17	2145	23.36
10	TT190D2-20250611	2851	16.97	2132	21.17	1996	23.36

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

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

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

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2299 SAS No.: Q2299 SDG NO.: Q2299

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 06/16/2025

Lab File ID: BN037284.D Time Analyzed: 10:23

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

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	1056	7.575	2600	10.35	1364	14.22
	UPPER LIMIT	2112	8.075	5200	10.851	2728	14.724
	LOWER LIMIT	528	7.075	1300	9.851	682	13.724
	EPA SAMPLE NO.						
01	RE131D2-20250610DL	771	7.58	1898	10.36	1101	14.22
02	DUP02-20250610DL	691	7.58	1765	10.36	1009	14.22
03	RE134D3-20250610DL	929	7.58	2314	10.36	1314	14.22

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

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

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

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2299 SAS No.: Q2299 SDG NO.: Q2299

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 06/16/2025

Lab File ID: BN037284.D Time Analyzed: 10:23

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

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	2522	16.971	1830	21.171	1806	23.36
	UPPER LIMIT	5044	17.471	3660	21.671	3612	23.86
	LOWER LIMIT	1261	16.471	915	20.671	903	22.86
	EPA SAMPLE NO.						
01	RE131D2-20250610DL	1810	16.98	1371	21.18	1300	23.37
02	DUP02-20250610DL	1902	16.97	1313	21.18	1237	23.37
03	RE134D3-20250610DL	2315	16.97	1782	21.18	1749	23.36

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
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/09/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/11/25
Client Sample ID:	RE117D1-20250609	SDG No.:	Q2299
Lab Sample ID:	Q2299-01	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037244.D	1	06/13/25 08:03	06/14/25 02:20	PB168458

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.63		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.28		30 - 150		70%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.39		30 - 150		98%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.26		55 - 111		65%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.27		53 - 106		68%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.39		58 - 132		98%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	786	7.582				
1146-65-2	Naphthalene-d8	1980	10.361				
15067-26-2	Acenaphthene-d10	1110	14.223				
1517-22-2	Phenanthrene-d10	2090	16.983				
1719-03-5	Chrysene-d12	1830	21.179				
1520-96-3	Perylene-d12	1900	23.362				

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_N\Data\BN061325\
Data File : BN037244.D
Acq On : 14 Jun 2025 02:20
Operator : RC/JU
Sample : Q2299-01
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE117D1-20250609

Quant Time: Jun 14 03:25:29 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration

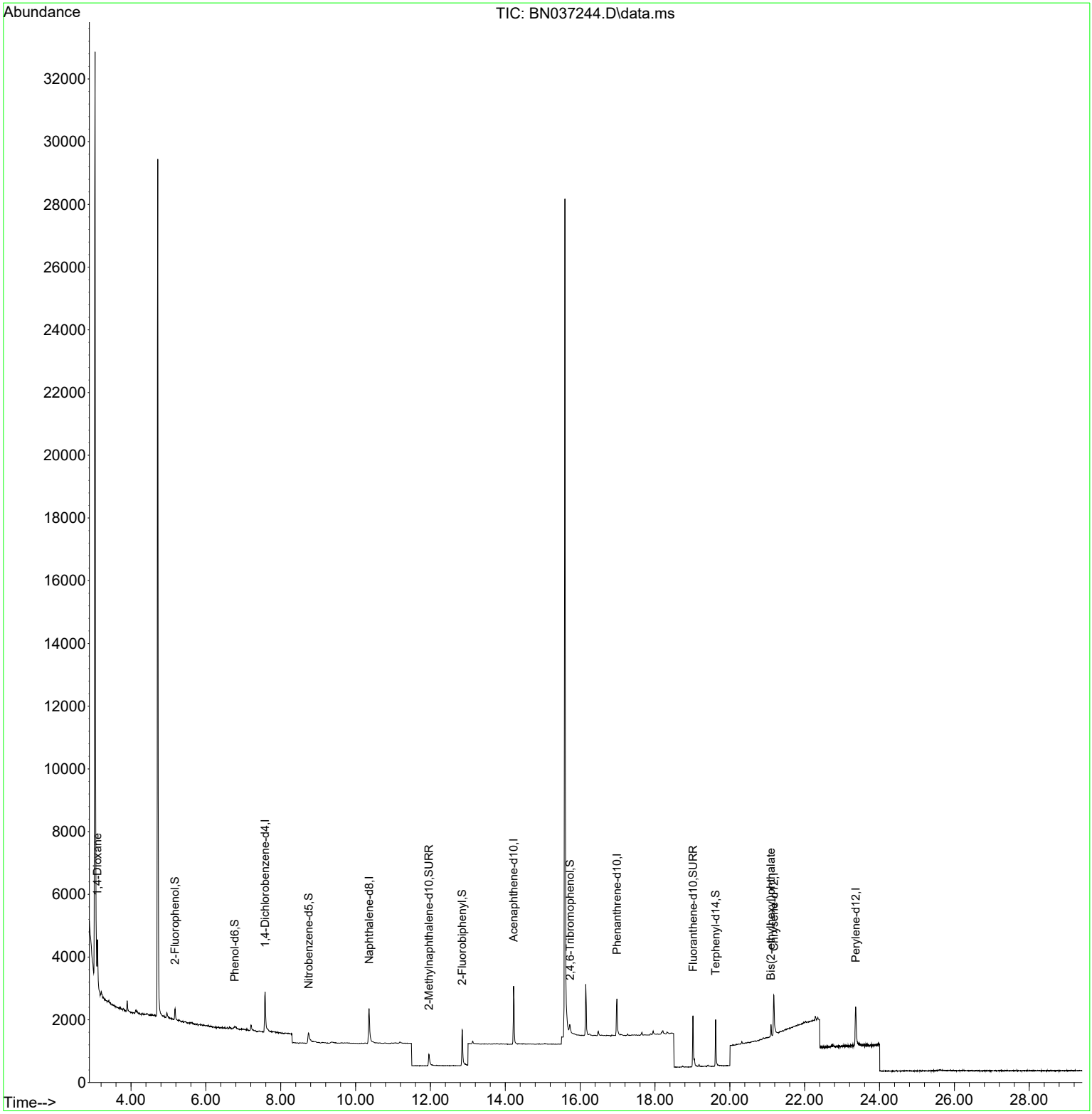
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.582	152	786	0.400	ng	0.00
7) Naphthalene-d8	10.361	136	1976	0.400	ng	# 0.00
13) Acenaphthene-d10	14.223	164	1112	0.400	ng	0.00
19) Phenanthrene-d10	16.983	188	2088	0.400	ng	# 0.01
29) Chrysene-d12	21.179	240	1833	0.400	ng	0.00
35) Perylene-d12	23.362	264	1896	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	274	0.142	ng	0.00
5) Phenol-d6	6.773	99	147	0.072	ng	0.01
8) Nitrobenzene-d5	8.749	82	507	0.260	ng	0.02
11) 2-Methylnaphthalene-d10	11.960	152	741	0.279	ng	0.00
14) 2,4,6-Tribromophenol	15.730	330	155	0.336	ng	0.00
15) 2-Fluorobiphenyl	12.847	172	1279	0.274	ng	0.00
27) Fluoranthene-d10	19.016	212	2155	0.394	ng	0.00
31) Terphenyl-d14	19.620	244	1634	0.394	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.104	88	678	0.629	ng	# 70
34) Bis(2-ethylhexyl)phtha...	21.099	149	406	0.088	ng	# 98

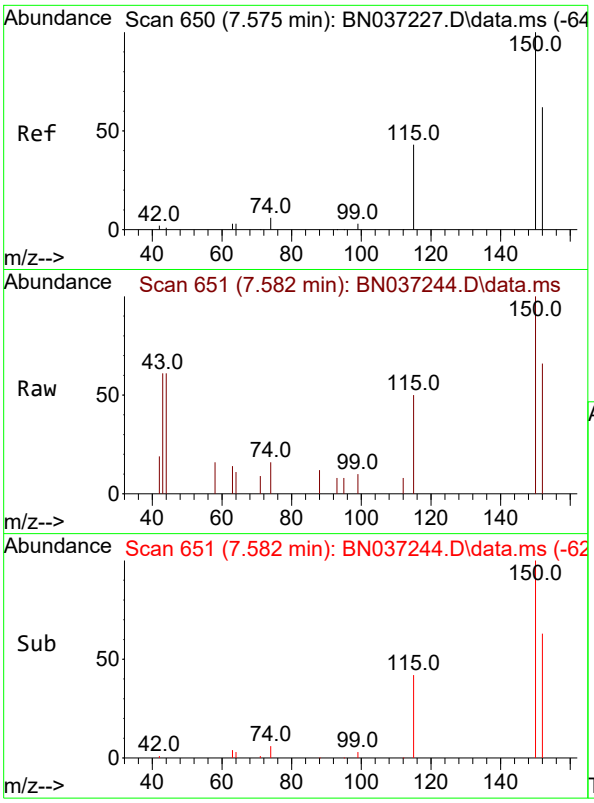
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037244.D
Acq On : 14 Jun 2025 02:20
Operator : RC/JU
Sample : Q2299-01
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE117D1-20250609

Quant Time: Jun 14 03:25:29 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration



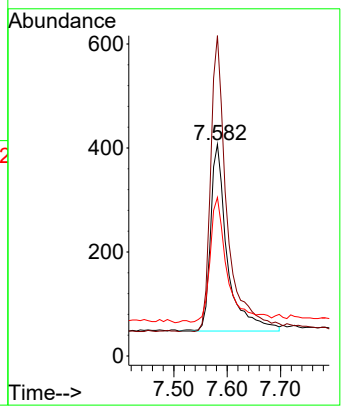


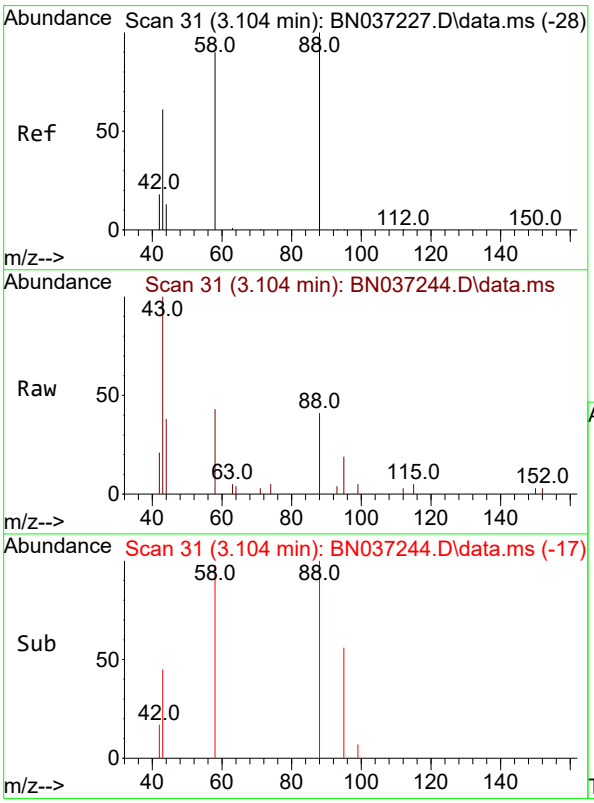
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.582 min Scan# 6
Delta R.T. 0.007 min
Lab File: BN037244.D
Acq: 14 Jun 2025 02:20

Instrument :
BNA_N
ClientSampleId :
RE117D1-20250609

Tgt Ion:152 Resp: 786

Ion	Ratio	Lower	Upper
152	100		
150	151.4	125.2	187.8
115	74.9	58.4	87.6

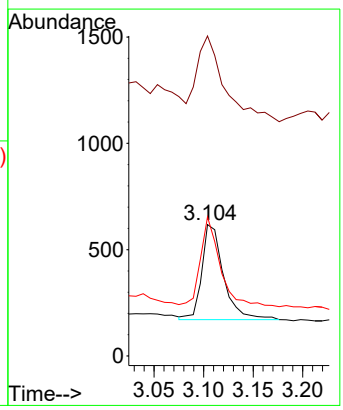


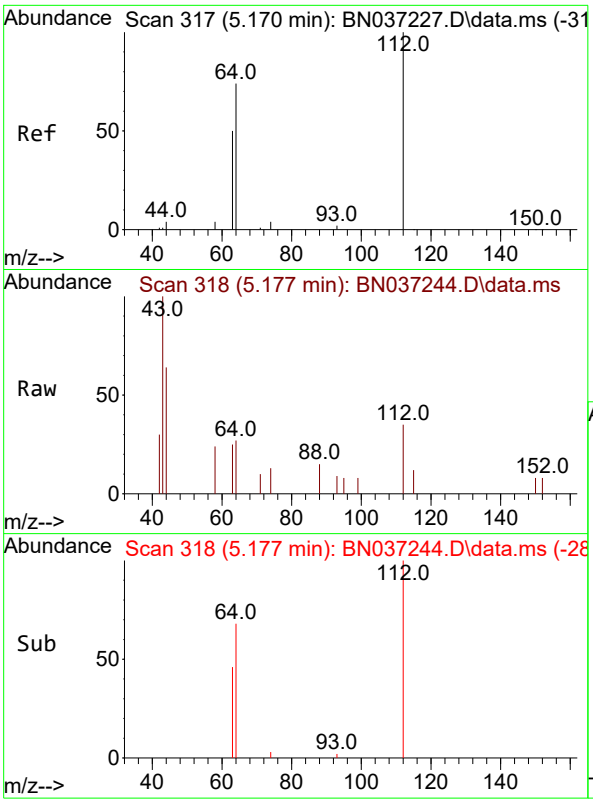


#2
1,4-Dioxane
Concen: 0.629 ng
RT: 3.104 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037244.D
Acq: 14 Jun 2025 02:20

Tgt Ion: 88 Resp: 678

Ion	Ratio	Lower	Upper
88	100		
43	116.7	52.6	79.0#
58	86.0	73.5	110.3



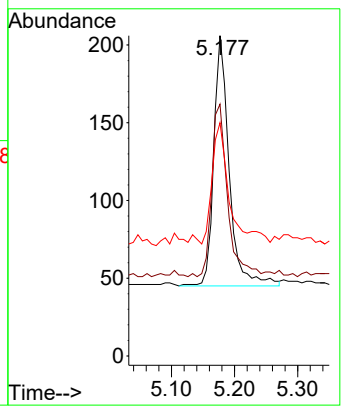


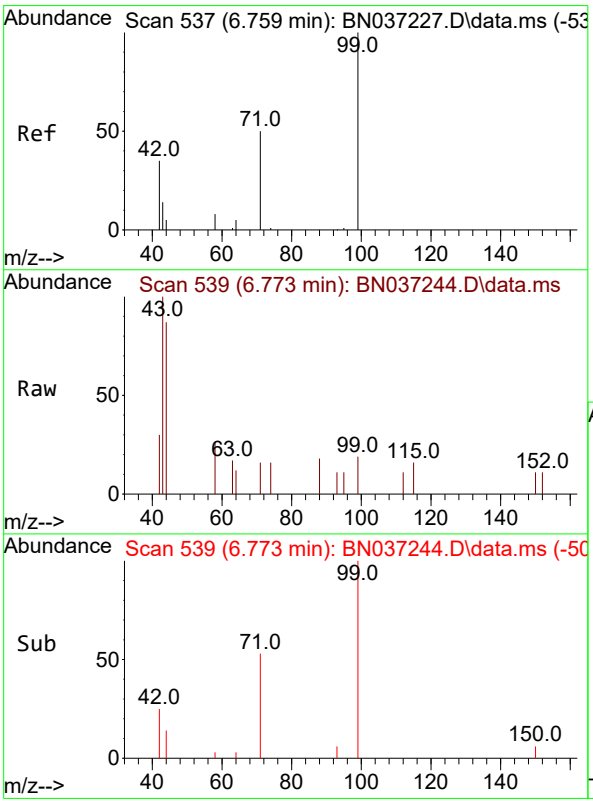
#4
2-Fluorophenol
Concen: 0.142 ng
RT: 5.177 min Scan# 31
Delta R.T. 0.007 min
Lab File: BN037244.D
Acq: 14 Jun 2025 02:20

Instrument :
BNA_N
ClientSampleId :
RE117D1-20250609

Tgt Ion:112 Resp: 274

Ion	Ratio	Lower	Upper
112	100		
64	71.2	57.2	85.8
63	49.3	39.8	59.6

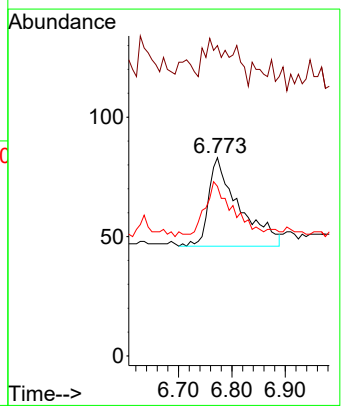


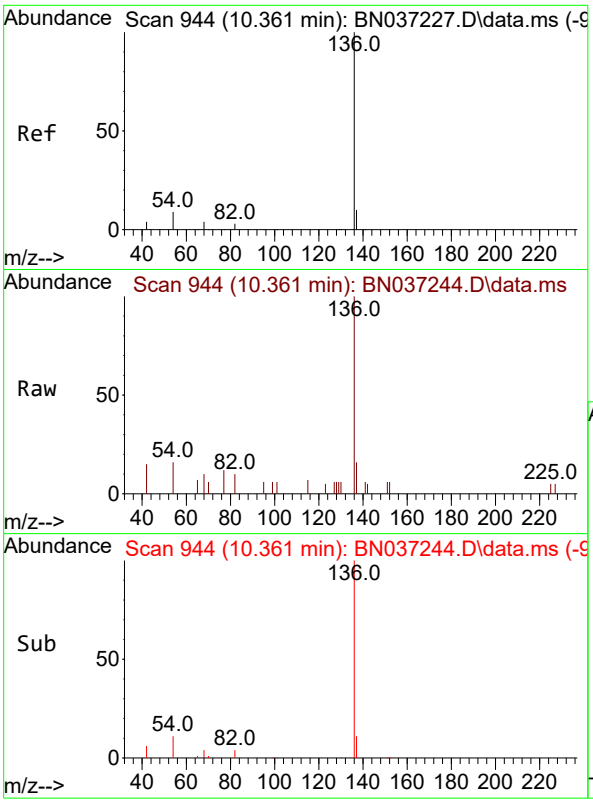


#5
Phenol-d6
Concen: 0.072 ng
RT: 6.773 min Scan# 539
Delta R.T. 0.014 min
Lab File: BN037244.D
Acq: 14 Jun 2025 02:20

Tgt Ion: 99 Resp: 147

Ion	Ratio	Lower	Upper
99	100		
42	25.9	36.2	54.4#
71	53.1	42.4	63.6



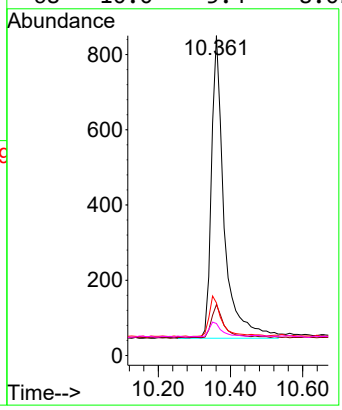


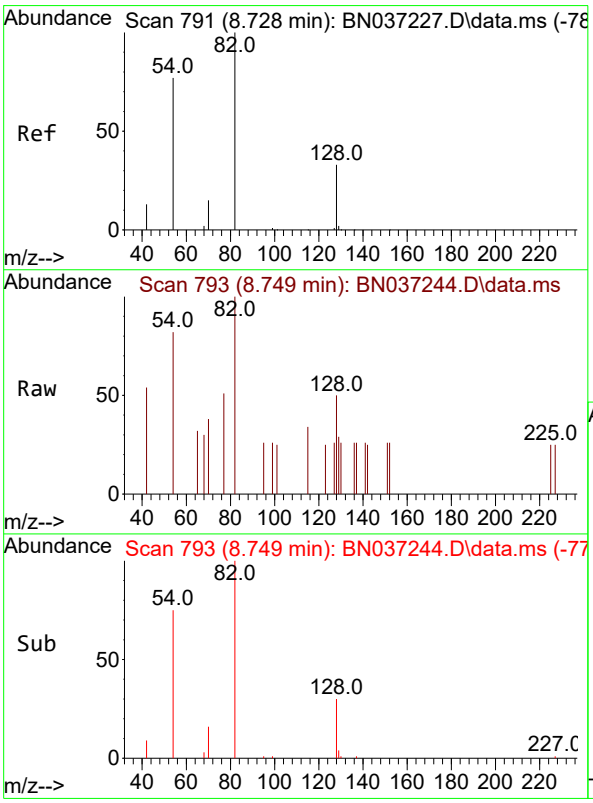
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.361 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037244.D
Acq: 14 Jun 2025 02:20

Instrument :
BNA_N
ClientSampleId :
RE117D1-20250609

Tgt Ion:136 Resp: 1976

Ion	Ratio	Lower	Upper
136	100		
137	15.9	10.6	15.8#
54	16.5	9.2	13.8#
68	10.0	5.4	8.0#

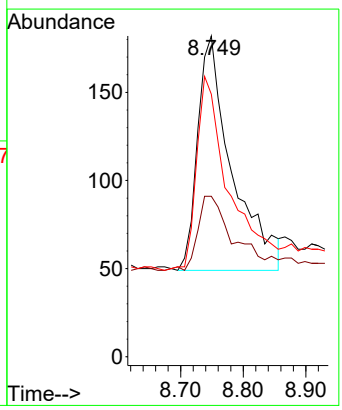


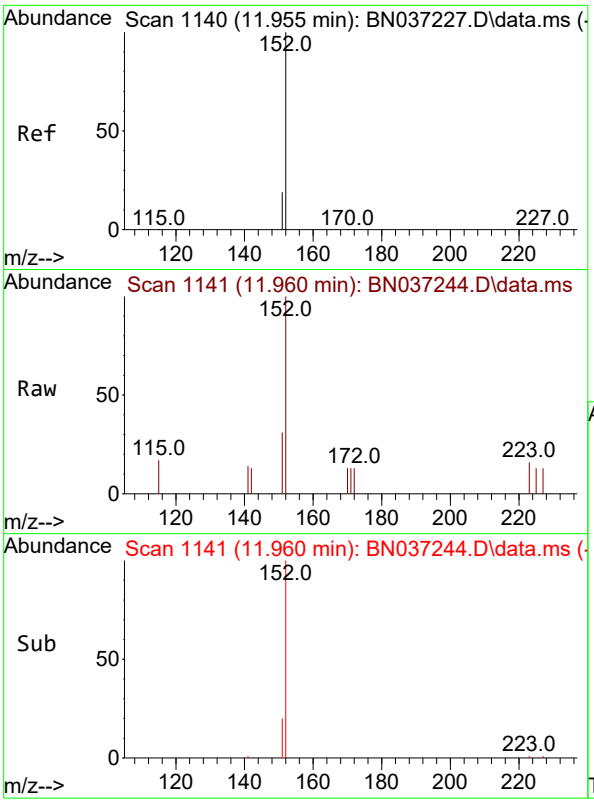


#8
Nitrobenzene-d5
Concen: 0.260 ng
RT: 8.749 min Scan# 793
Delta R.T. 0.021 min
Lab File: BN037244.D
Acq: 14 Jun 2025 02:20

Tgt Ion: 82 Resp: 507

Ion	Ratio	Lower	Upper
82	100		
128	50.0	31.2	46.8#
54	81.9	63.3	94.9



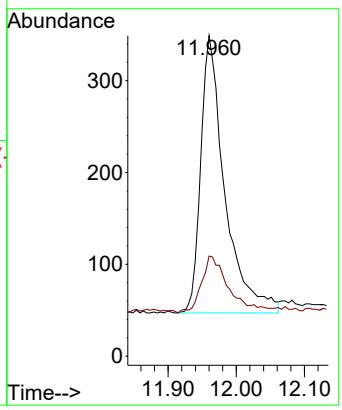


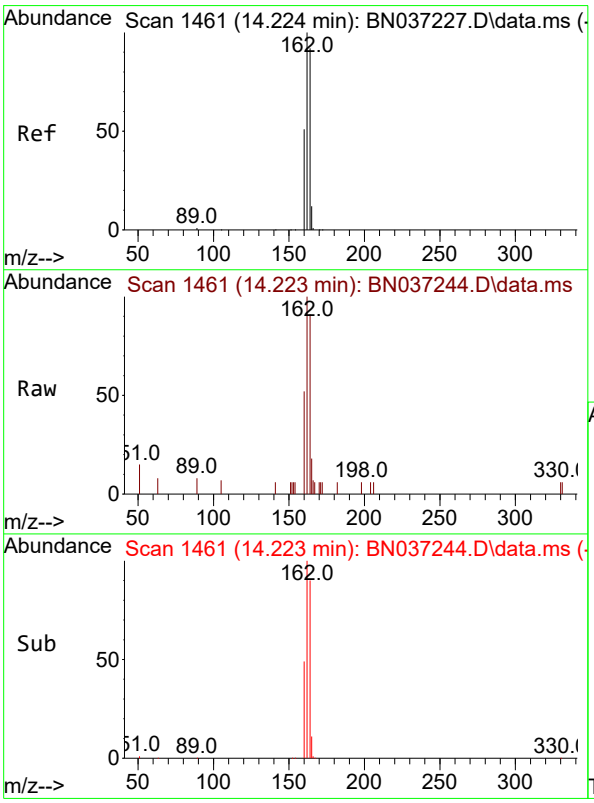
#11
2-Methylnaphthalene-d10
Concen: 0.279 ng
RT: 11.960 min Scan# 11
Delta R.T. 0.005 min
Lab File: BN037244.D
Acq: 14 Jun 2025 02:20

Instrument :
BNA_N
ClientSampleId :
RE117D1-20250609

Tgt Ion:152 Resp: 741

Ion	Ratio	Lower	Upper
152	100		
151	23.5	17.9	26.9

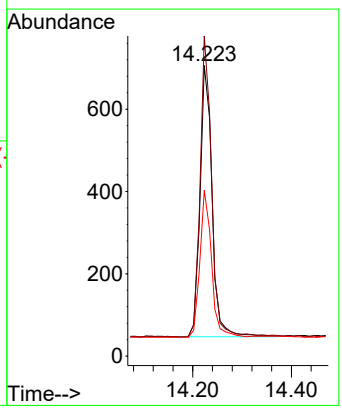


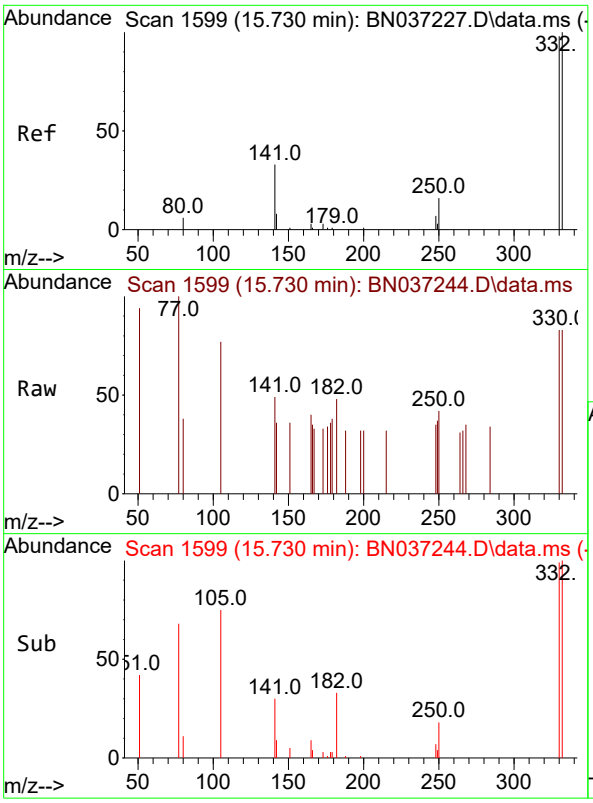


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.223 min Scan# 1461
Delta R.T. -0.000 min
Lab File: BN037244.D
Acq: 14 Jun 2025 02:20

Tgt Ion:164 Resp: 1112

Ion	Ratio	Lower	Upper
164	100		
162	110.2	86.7	130.1
160	57.1	45.8	68.6



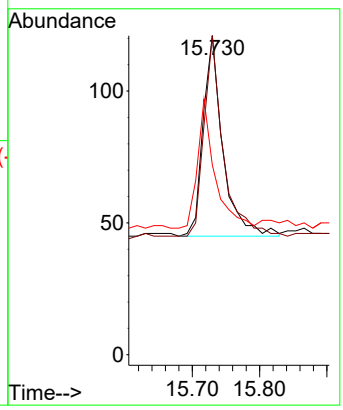


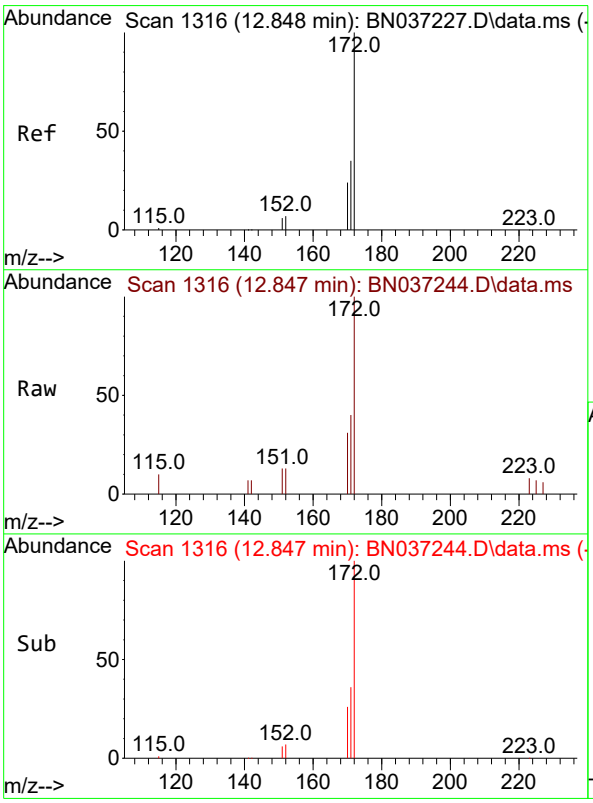
#14
2,4,6-Tribromophenol
Concen: 0.336 ng
RT: 15.730 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037244.D
Acq: 14 Jun 2025 02:20

Instrument :
BNA_N
ClientSampleId :
RE117D1-20250609

Tgt Ion:330 Resp: 155

Ion	Ratio	Lower	Upper
330	100		
332	96.8	74.9	112.3
141	56.8	45.1	67.7

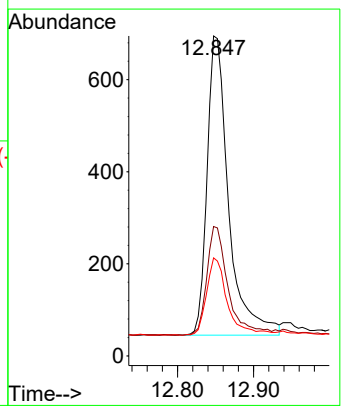


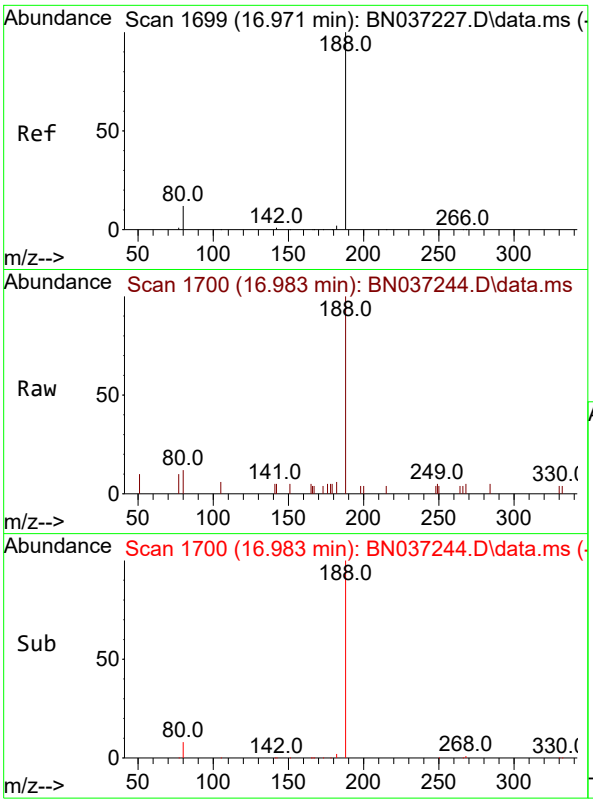


#15
2-Fluorobiphenyl
Concen: 0.274 ng
RT: 12.847 min Scan# 1316
Delta R.T. -0.000 min
Lab File: BN037244.D
Acq: 14 Jun 2025 02:20

Tgt Ion:172 Resp: 1279

Ion	Ratio	Lower	Upper
172	100		
171	40.4	29.8	44.8
170	30.6	21.1	31.7



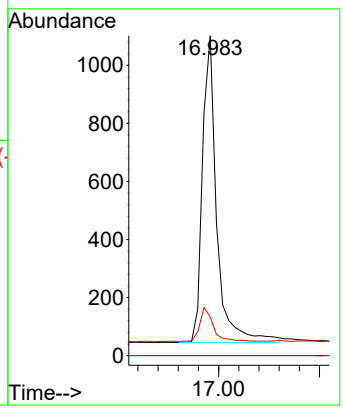


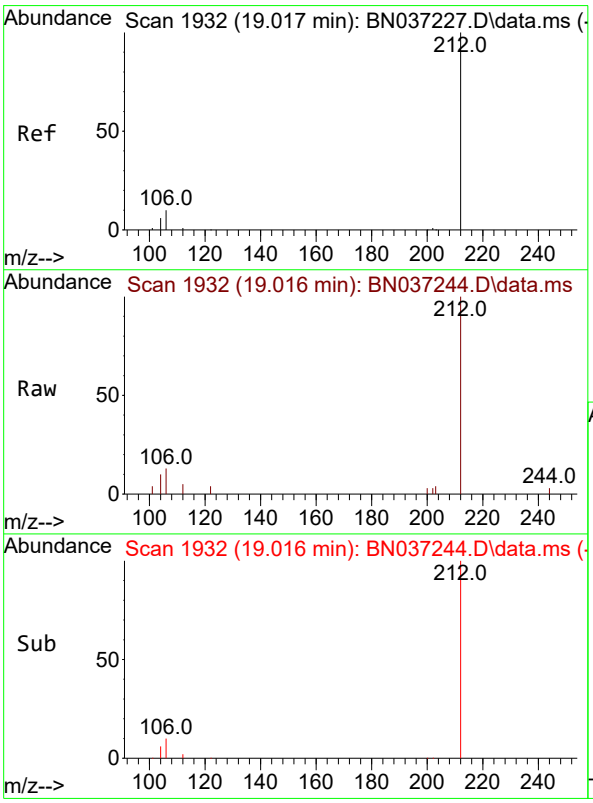
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.983 min Scan# 1
Delta R.T. 0.012 min
Lab File: BN037244.D
Acq: 14 Jun 2025 02:20

Instrument :
BNA_N
ClientSampleId :
RE117D1-20250609

Tgt Ion:188 Resp: 2088

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.2	12.2	18.4#

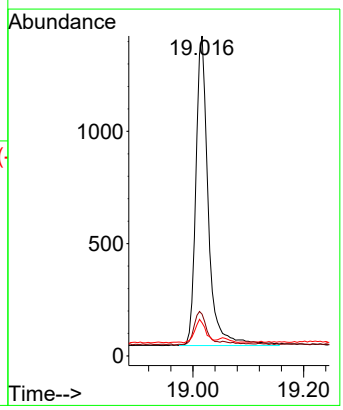


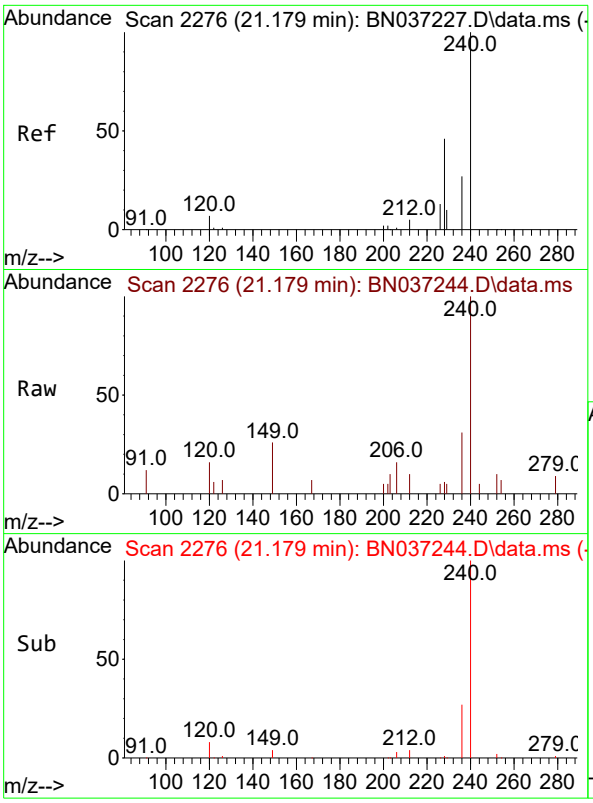


#27
Fluoranthene-d10
Concen: 0.394 ng
RT: 19.016 min Scan# 1932
Delta R.T. -0.000 min
Lab File: BN037244.D
Acq: 14 Jun 2025 02:20

Tgt Ion:212 Resp: 2155

Ion	Ratio	Lower	Upper
212	100		
106	11.0	9.3	13.9
104	6.8	5.7	8.5



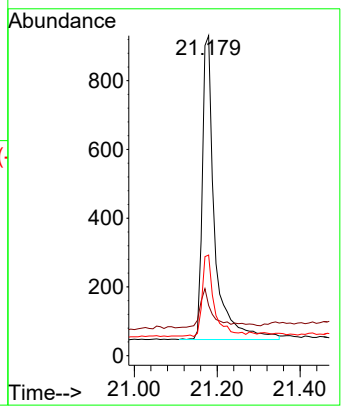


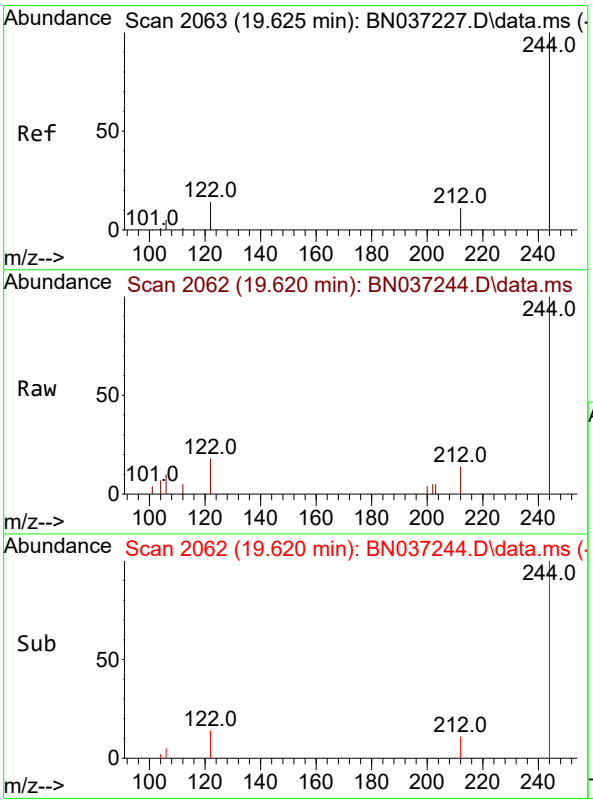
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.179 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037244.D
Acq: 14 Jun 2025 02:20

Instrument :
BNA_N
ClientSampleId :
RE117D1-20250609

Tgt Ion:240 Resp: 1833

Ion	Ratio	Lower	Upper
240	100		
120	15.7	11.3	16.9
236	31.5	24.4	36.6

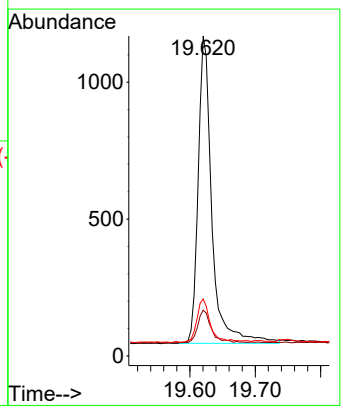


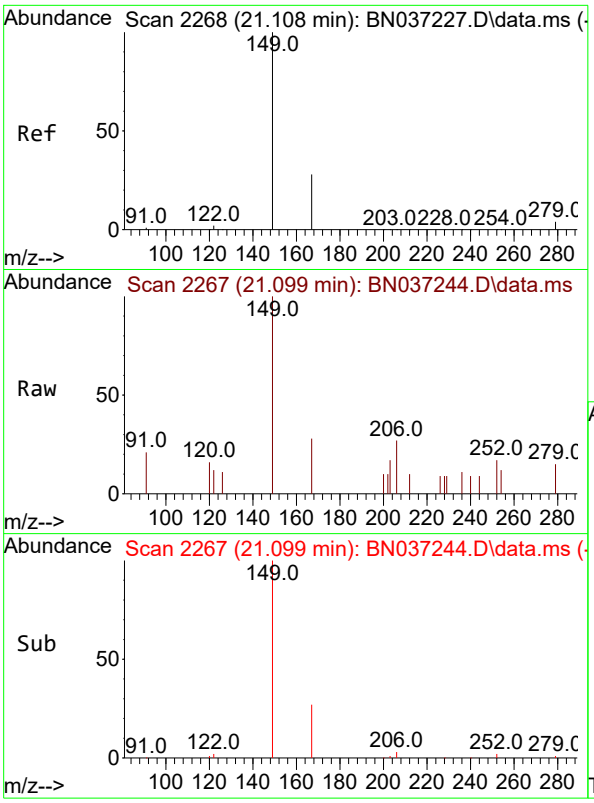


#31
Terphenyl-d14
Concen: 0.394 ng
RT: 19.620 min Scan# 2062
Delta R.T. -0.005 min
Lab File: BN037244.D
Acq: 14 Jun 2025 02:20

Tgt Ion:244 Resp: 1634

Ion	Ratio	Lower	Upper
244	100		
212	14.3	12.2	18.2
122	17.8	14.3	21.5



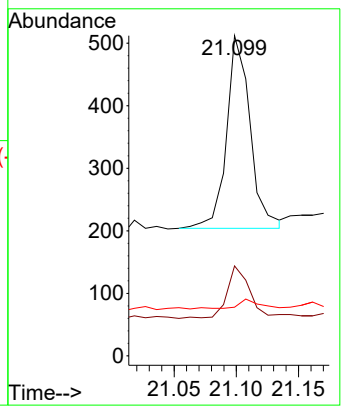


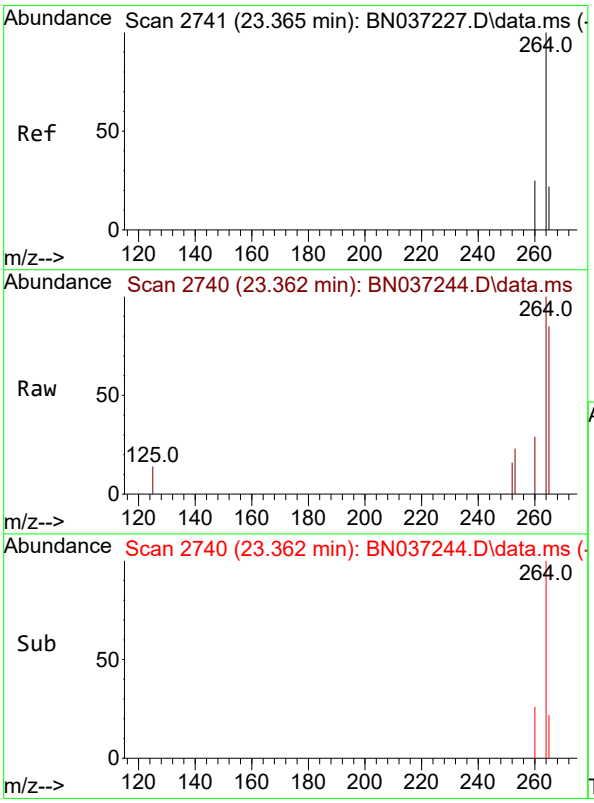
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.088 ng
RT: 21.099 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037244.D
Acq: 14 Jun 2025 02:20

Instrument :
BNA_N
ClientSampleId :
RE117D1-20250609

Tgt Ion:149 Resp: 406

Ion	Ratio	Lower	Upper
149	100		
167	27.8	21.3	31.9
279	4.9	3.3	4.9#

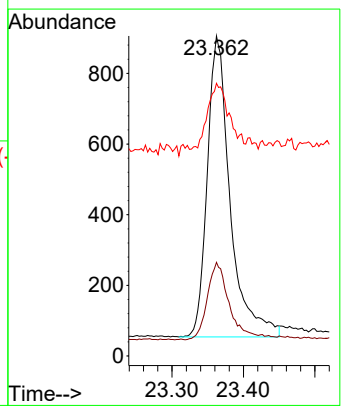




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.362 min Scan# 2740
Delta R.T. -0.003 min
Lab File: BN037244.D
Acq: 14 Jun 2025 02:20

Tgt Ion:264 Resp: 1896

Ion	Ratio	Lower	Upper
264	100		
260	29.2	22.8	34.2
265	85.2	66.4	99.6



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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/09/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/11/25
Client Sample ID:	RE117D2-20250609	SDG No.:	Q2299
Lab Sample ID:	Q2299-02	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037245.D	1	06/13/25 08:03	06/14/25 02:56	PB168458

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.33		30 - 150		81%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.39		30 - 150		97%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.28		55 - 111		70%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.33		53 - 106		81%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.45		58 - 132		112%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	884	7.582				
1146-65-2	Naphthalene-d8	2160	10.362				
15067-26-2	Acenaphthene-d10	1190	14.224				
1517-22-2	Phenanthrene-d10	2020	16.984				
1719-03-5	Chrysene-d12	1610	21.18				
1520-96-3	Perylene-d12	1760	23.363				

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_N\Data\BN061325\
Data File : BN037245.D
Acq On : 14 Jun 2025 02:56
Operator : RC/JU
Sample : Q2299-02
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE117D2-20250609

Quant Time: Jun 14 04:21:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration

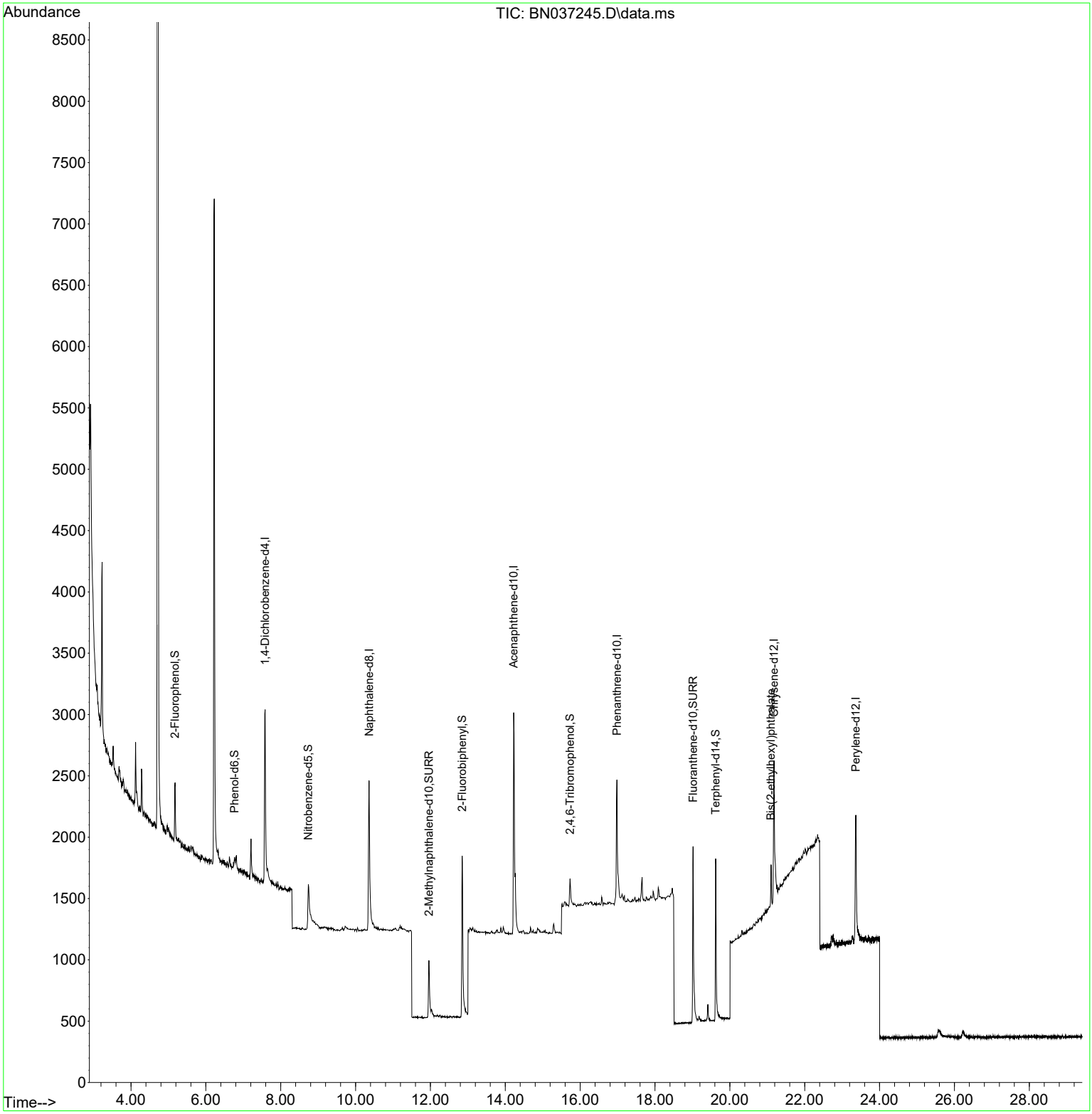
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.582	152	884	0.400	ng	0.00
7) Naphthalene-d8	10.362	136	2161	0.400	ng	# 0.00
13) Acenaphthene-d10	14.224	164	1194	0.400	ng	0.00
19) Phenanthrene-d10	16.984	188	2020	0.400	ng	# 0.01
29) Chrysene-d12	21.180	240	1612	0.400	ng	# 0.00
35) Perylene-d12	23.363	264	1755	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	341	0.157	ng	0.00
5) Phenol-d6	6.766	99	156	0.068	ng	0.00
8) Nitrobenzene-d5	8.739	82	596	0.279	ng	0.01
11) 2-Methylnaphthalene-d10	11.961	152	942	0.325	ng	0.00
14) 2,4,6-Tribromophenol	15.730	330	158	0.319	ng	0.00
15) 2-Fluorobiphenyl	12.848	172	1629	0.325	ng	0.00
27) Fluoranthene-d10	19.017	212	2058	0.389	ng	0.00
31) Terphenyl-d14	19.621	244	1634	0.448	ng	0.00
Target Compounds						Qvalue
34) Bis(2-ethylhexyl)phtha...	21.099	149	383	0.094	ng	# 94

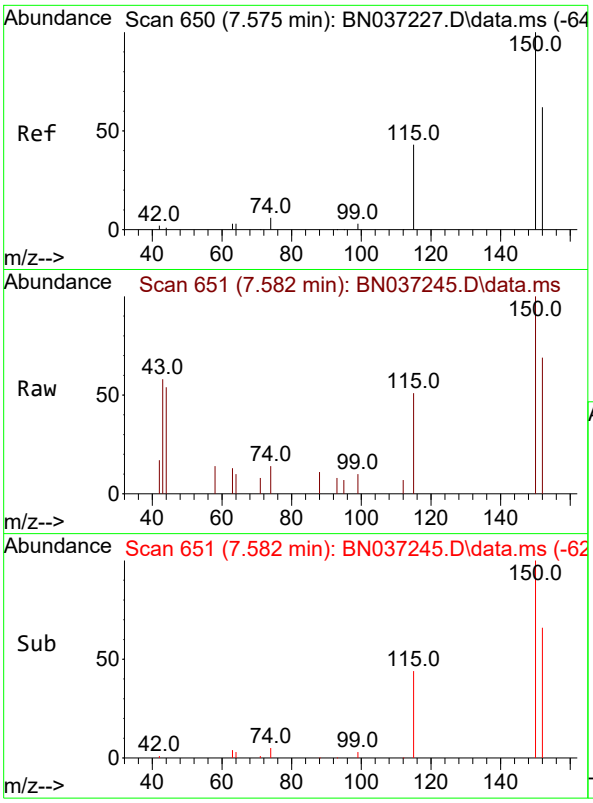
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037245.D
Acq On : 14 Jun 2025 02:56
Operator : RC/JU
Sample : Q2299-02
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE117D2-20250609

Quant Time: Jun 14 04:21:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration



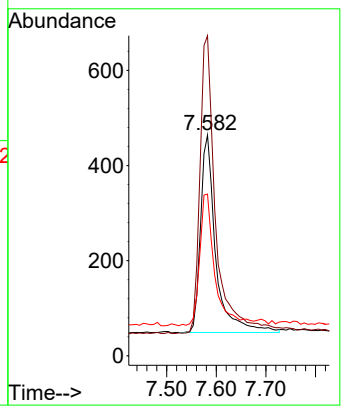


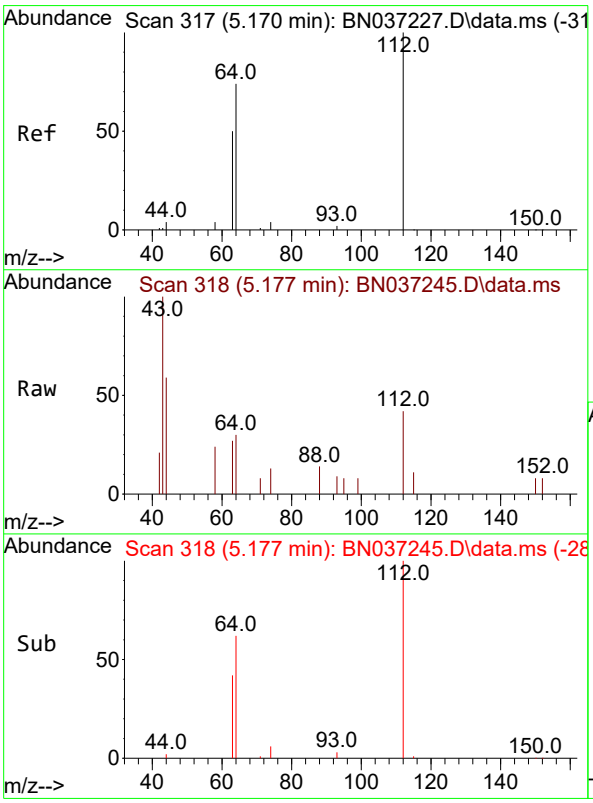
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.582 min Scan# 6
Delta R.T. 0.007 min
Lab File: BN037245.D
Acq: 14 Jun 2025 02:56

Instrument :
BNA_N
ClientSampleId :
RE117D2-20250609

Tgt Ion:152 Resp: 884

Ion	Ratio	Lower	Upper
152	100		
150	145.0	125.2	187.8
115	73.3	58.4	87.6

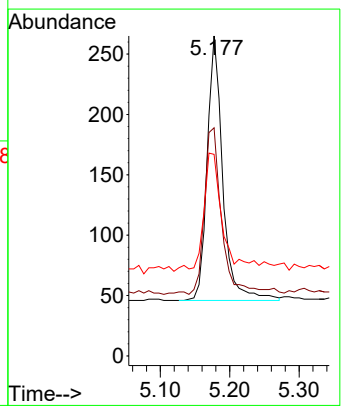


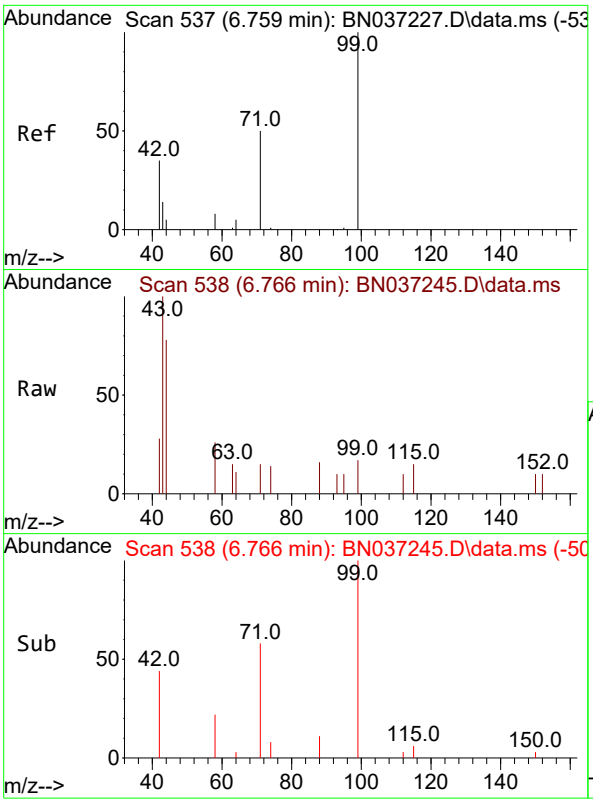


#4
2-Fluorophenol
Concen: 0.157 ng
RT: 5.177 min Scan# 318
Delta R.T. 0.008 min
Lab File: BN037245.D
Acq: 14 Jun 2025 02:56

Tgt Ion:112 Resp: 341

Ion	Ratio	Lower	Upper
112	100		
64	71.6	57.2	85.8
63	59.5	39.8	59.6



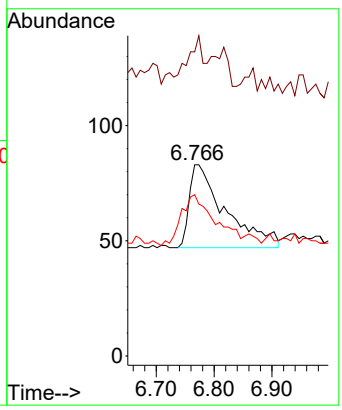


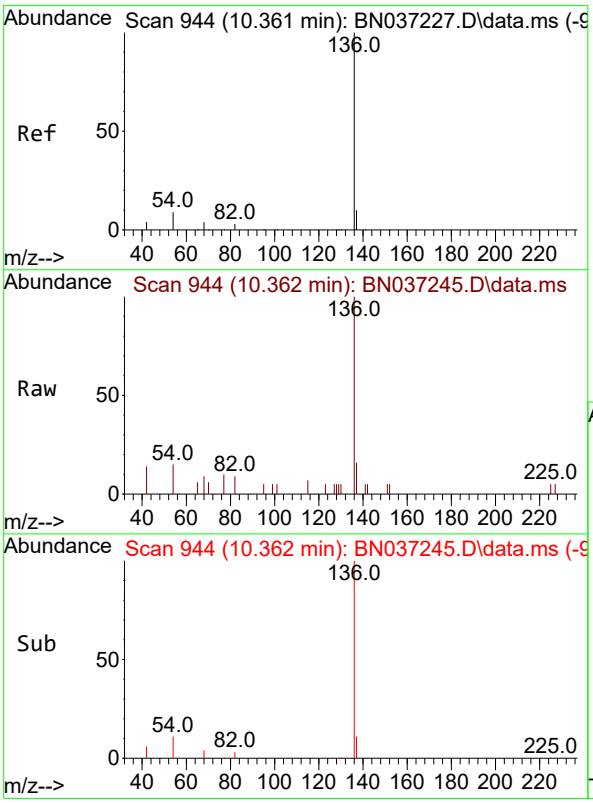
#5
Phenol-d6
Concen: 0.068 ng
RT: 6.766 min Scan# 5
Delta R.T. 0.008 min
Lab File: BN037245.D
Acq: 14 Jun 2025 02:56

Instrument :
BNA_N
ClientSampleId :
RE117D2-20250609

Tgt Ion: 99 Resp: 156

Ion	Ratio	Lower	Upper
99	100		
42	17.9	36.2	54.4#
71	57.7	42.4	63.6

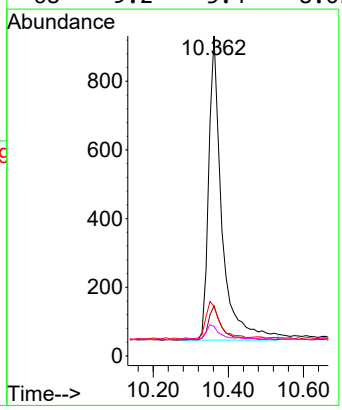


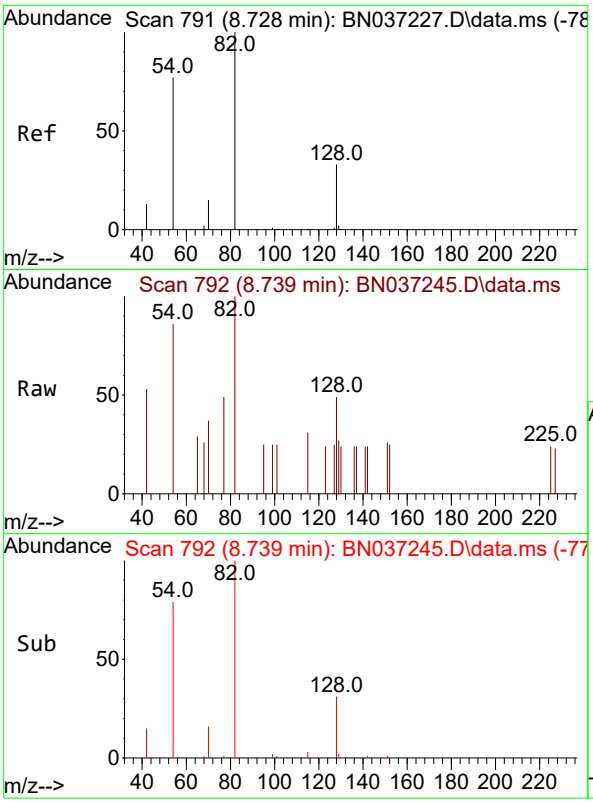


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.362 min Scan# 944
Delta R.T. 0.000 min
Lab File: BN037245.D
Acq: 14 Jun 2025 02:56

Tgt Ion:136 Resp: 2161

Ion	Ratio	Lower	Upper
136	100		
137	15.7	10.6	15.8
54	15.5	9.2	13.8#
68	9.2	5.4	8.0#



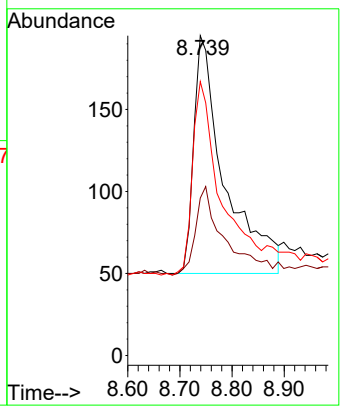


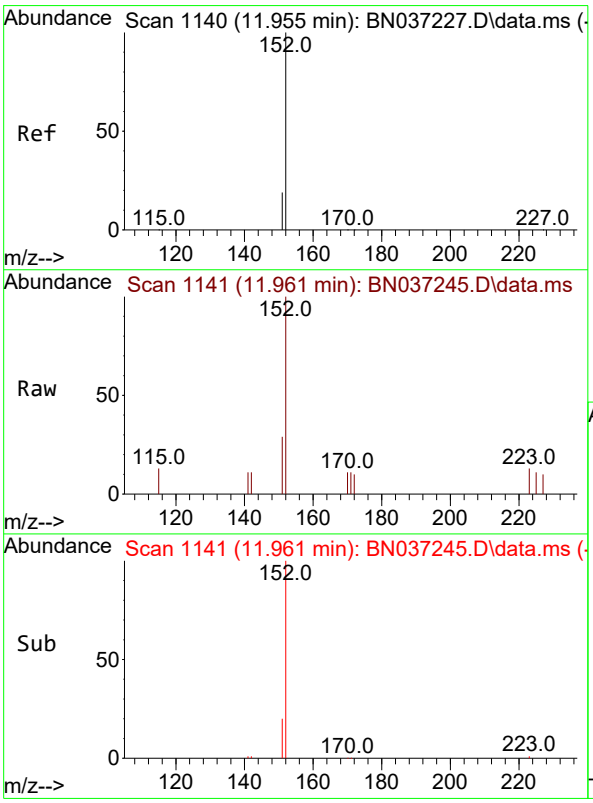
#8
Nitrobenzene-d5
Concen: 0.279 ng
RT: 8.739 min Scan# 7
Delta R.T. 0.011 min
Lab File: BN037245.D
Acq: 14 Jun 2025 02:56

Instrument :
BNA_N
ClientSampleId :
RE117D2-20250609

Tgt Ion: 82 Resp: 596

Ion	Ratio	Lower	Upper
82	100		
128	49.2	31.2	46.8#
54	85.6	63.3	94.9

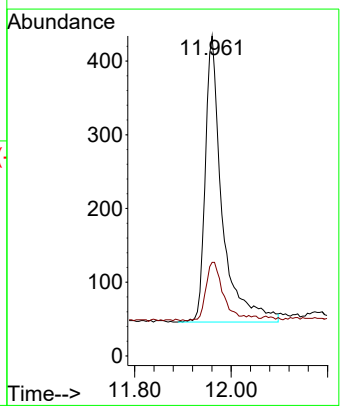


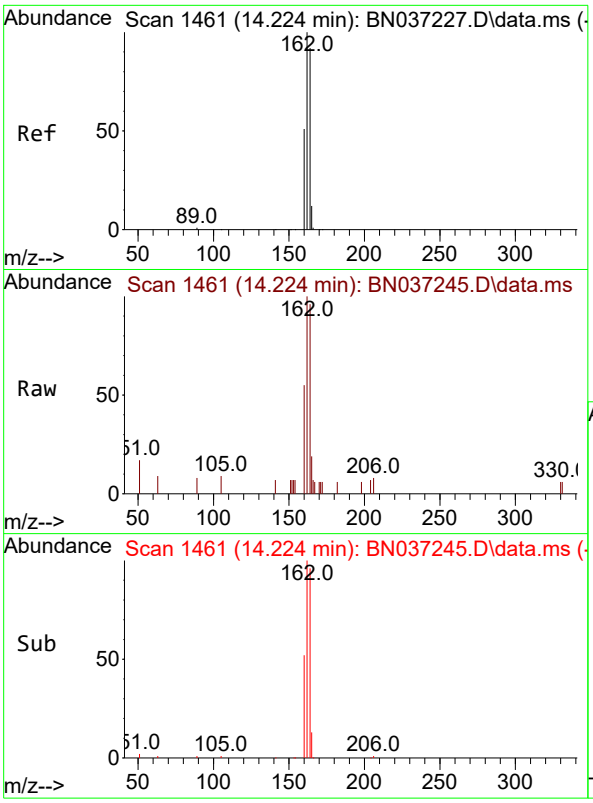


#11
2-Methylnaphthalene-d10
Concen: 0.325 ng
RT: 11.961 min Scan# 1141
Delta R.T. 0.005 min
Lab File: BN037245.D
Acq: 14 Jun 2025 02:56

Tgt Ion:152 Resp: 942

Ion	Ratio	Lower	Upper
152	100		
151	20.5	17.9	26.9



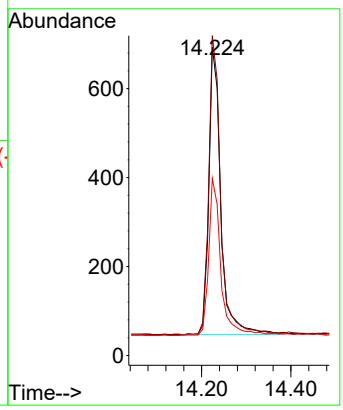


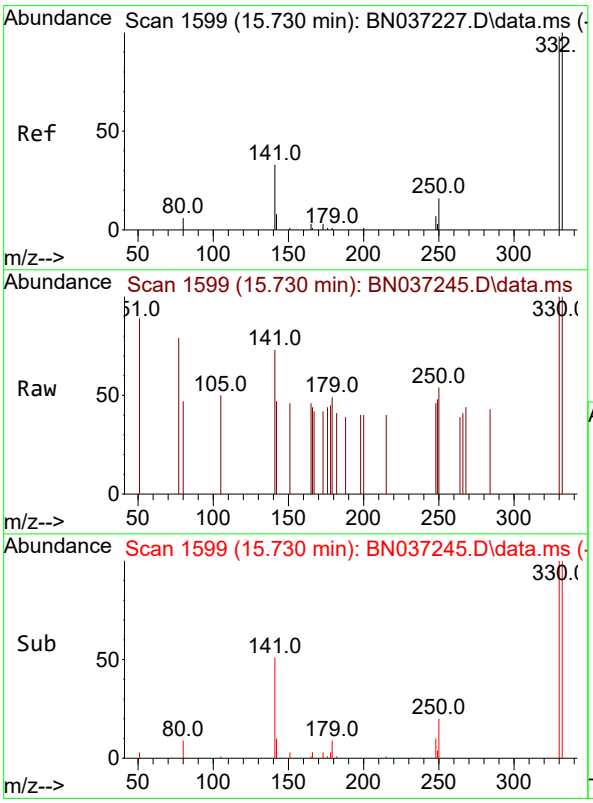
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037245.D
Acq: 14 Jun 2025 02:56

Instrument :
BNA_N
ClientSampleId :
RE117D2-20250609

Tgt Ion:164 Resp: 1194

Ion	Ratio	Lower	Upper
164	100		
162	103.8	86.7	130.1
160	57.4	45.8	68.6

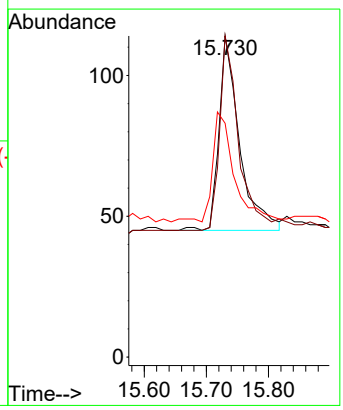


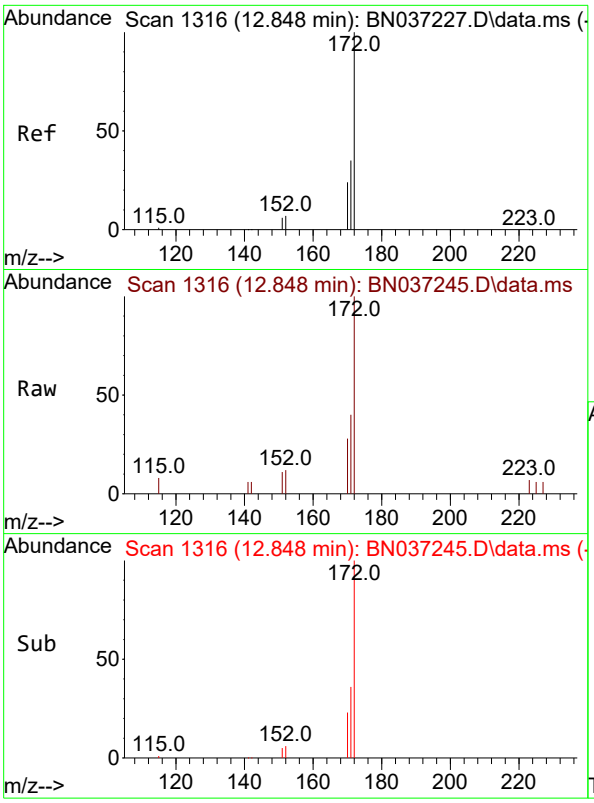


#14
2,4,6-Tribromophenol
Concen: 0.319 ng
RT: 15.730 min Scan# 1599
Delta R.T. 0.000 min
Lab File: BN037245.D
Acq: 14 Jun 2025 02:56

Tgt Ion:330 Resp: 158

Ion	Ratio	Lower	Upper
330	100		
332	97.5	74.9	112.3
141	60.1	45.1	67.7



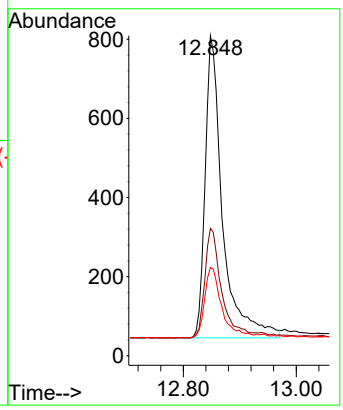


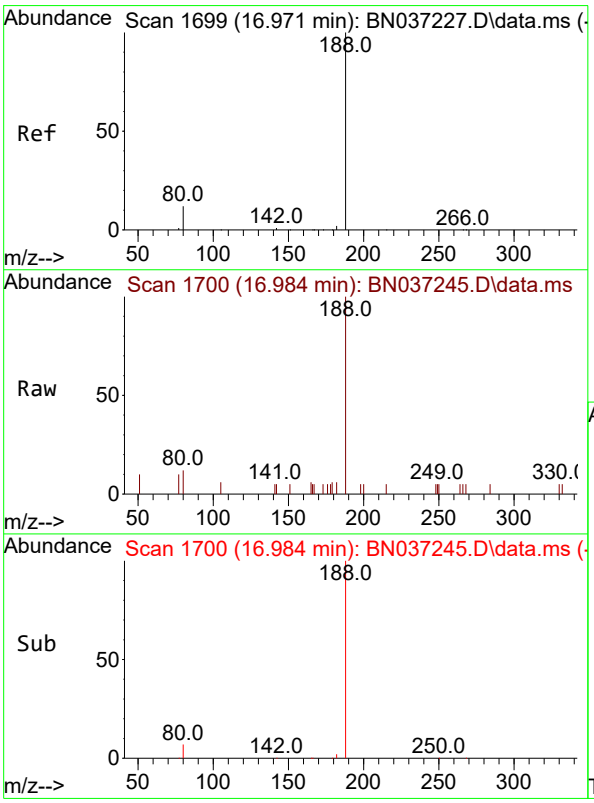
#15
2-Fluorobiphenyl
Concen: 0.325 ng
RT: 12.848 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037245.D
Acq: 14 Jun 2025 02:56

Instrument :
BNA_N
ClientSampleId :
RE117D2-20250609

Tgt Ion:172 Resp: 1629

Ion	Ratio	Lower	Upper
172	100		
171	39.8	29.8	44.8
170	27.6	21.1	31.7

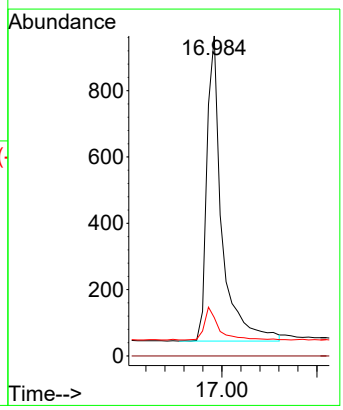


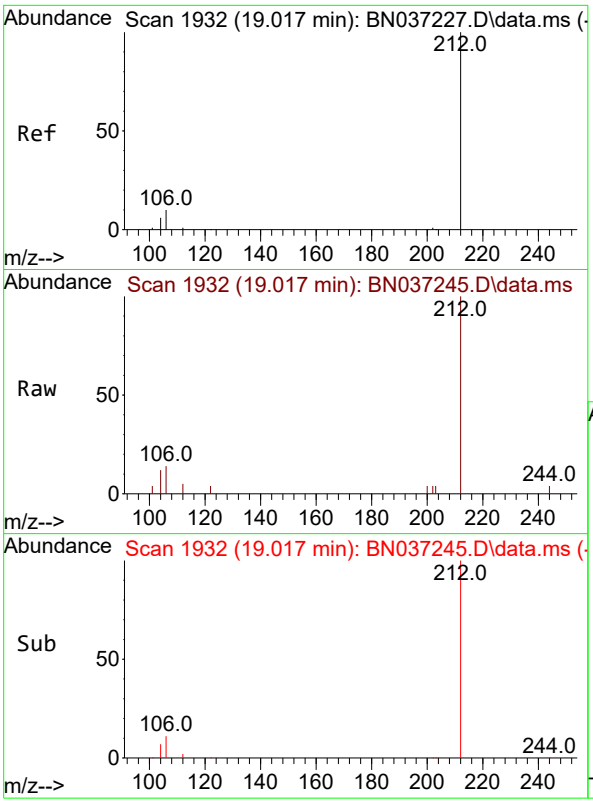


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.984 min Scan# 1700
Delta R.T. 0.013 min
Lab File: BN037245.D
Acq: 14 Jun 2025 02:56

Tgt Ion:188 Resp: 2020

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.0	12.2	18.4#



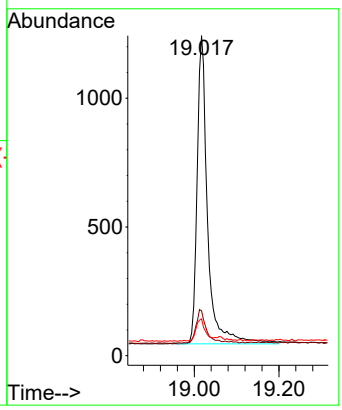


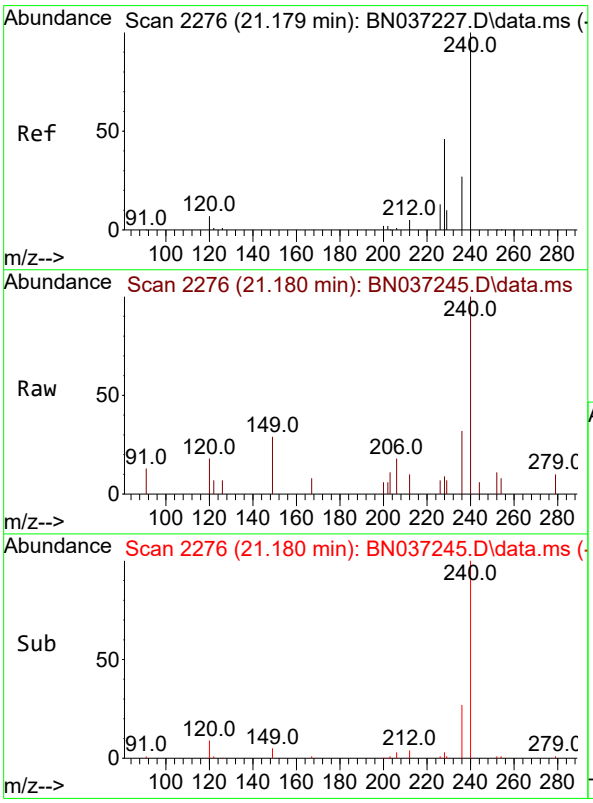
#27
Fluoranthene-d10
Concen: 0.389 ng
RT: 19.017 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037245.D
Acq: 14 Jun 2025 02:56

Instrument :
BNA_N
ClientSampleId :
RE117D2-20250609

Tgt Ion:212 Resp: 2058

Ion	Ratio	Lower	Upper
212	100		
106	10.3	9.3	13.9
104	6.1	5.7	8.5

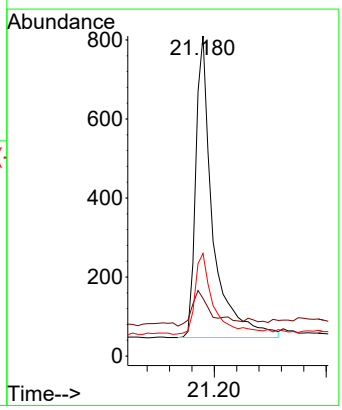


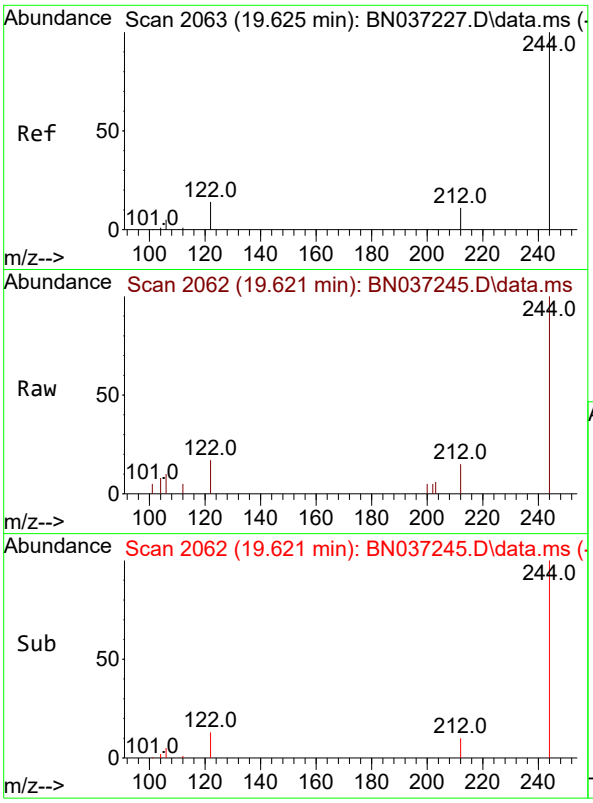


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.180 min Scan# 2276
Delta R.T. 0.000 min
Lab File: BN037245.D
Acq: 14 Jun 2025 02:56

Tgt Ion:240 Resp: 1612

Ion	Ratio	Lower	Upper
240	100		
120	18.0	11.3	16.9#
236	32.1	24.4	36.6



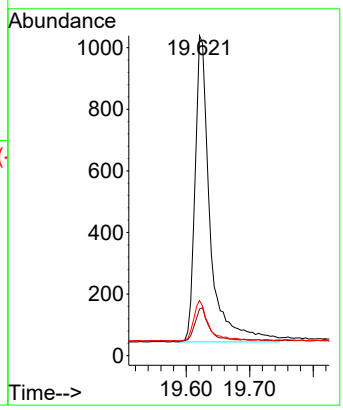


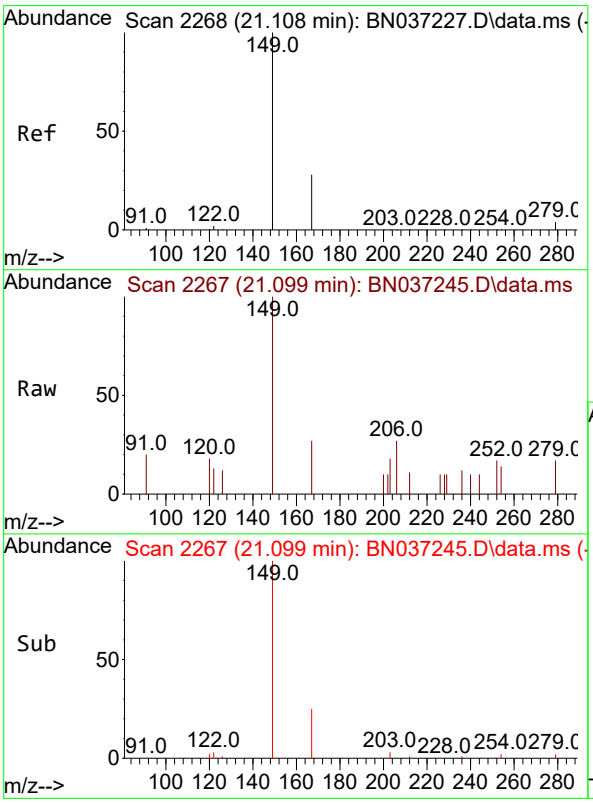
#31
Terphenyl-d14
Concen: 0.448 ng
RT: 19.621 min Scan# 2
Delta R.T. -0.004 min
Lab File: BN037245.D
Acq: 14 Jun 2025 02:56

Instrument :
BNA_N
ClientSampleId :
RE117D2-20250609

Tgt Ion:244 Resp: 1634

Ion	Ratio	Lower	Upper
244	100		
212	14.6	12.2	18.2
122	17.2	14.3	21.5

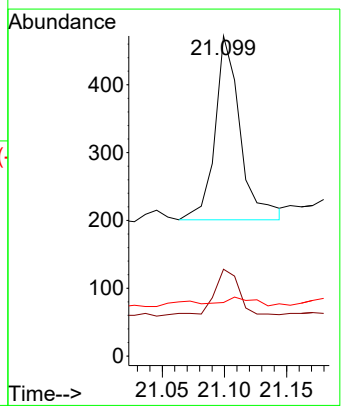


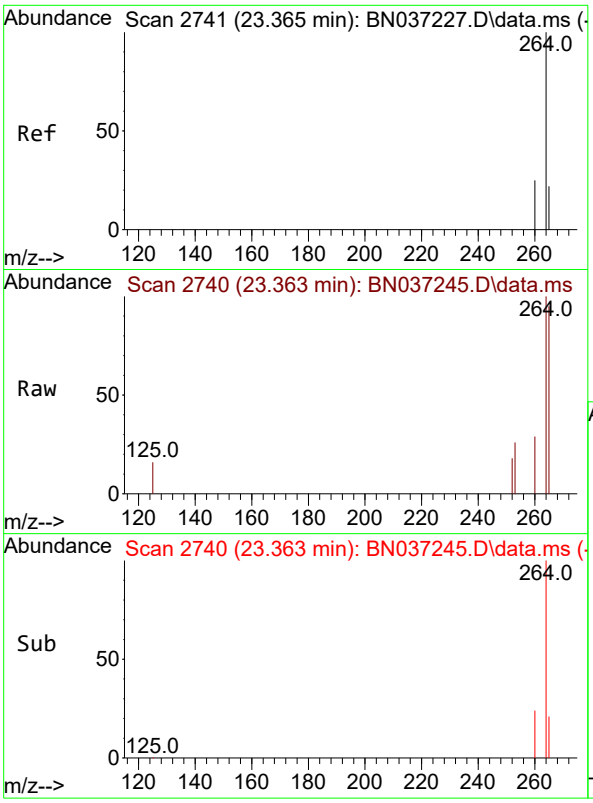


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.094 ng
RT: 21.099 min Scan# 2267
Delta R.T. -0.009 min
Lab File: BN037245.D
Acq: 14 Jun 2025 02:56

Tgt Ion:149 Resp: 383

Ion	Ratio	Lower	Upper
149	100		
167	23.2	21.3	31.9
279	5.0	3.3	4.9#



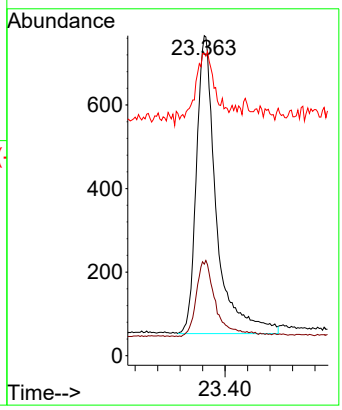


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.363 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN037245.D
Acq: 14 Jun 2025 02:56

Instrument :
BNA_N
ClientSampleId :
RE117D2-20250609

Tgt Ion:264 Resp: 1755

Ion	Ratio	Lower	Upper
264	100		
260	28.6	22.8	34.2
265	94.5	66.4	99.6



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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/09/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/11/25
Client Sample ID:	TT191D1-20250609	SDG No.:	Q2299
Lab Sample ID:	Q2299-05	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037248.D	1	06/13/25 08:03	06/14/25 04:45	PB168458

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	2.30	M	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.27		30 - 150		68%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.39		30 - 150		98%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.25		55 - 111		61%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.27		53 - 106		67%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.48		58 - 132		119%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	959	7.582				
1146-65-2	Naphthalene-d8	2360	10.362				
15067-26-2	Acenaphthene-d10	1260	14.224				
1517-22-2	Phenanthrene-d10	2270	16.984				
1719-03-5	Chrysene-d12	1960	21.171				
1520-96-3	Perylene-d12	2010	23.36				

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_N\Data\BN061325\
Data File : BN037248.D
Acq On : 14 Jun 2025 04:45
Operator : RC/JU
Sample : Q2299-05
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609

Quant Time: Jun 14 05:57:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration

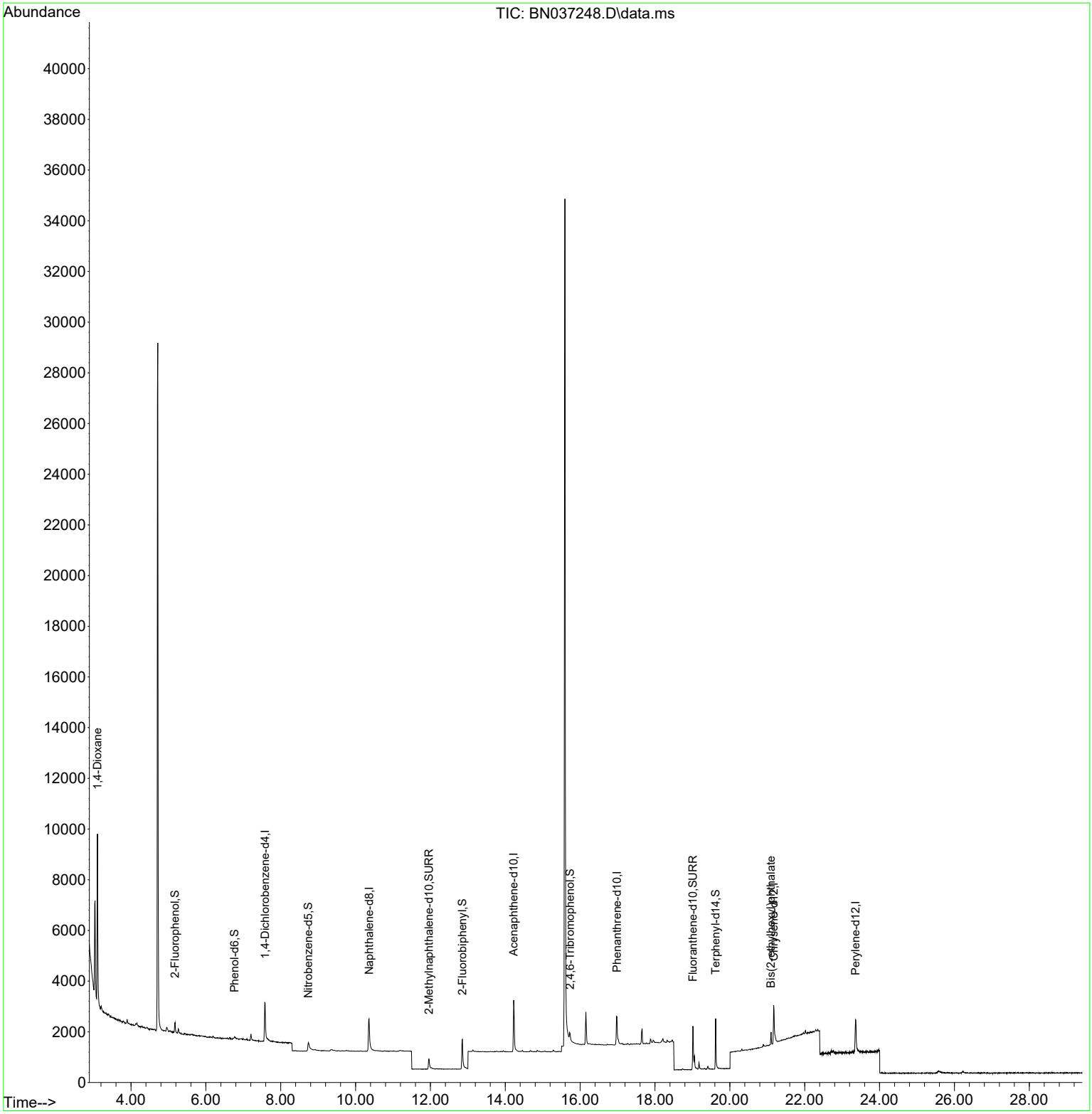
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.582	152	959	0.400	ng	0.00
7) Naphthalene-d8	10.362	136	2360	0.400	ng	# 0.00
13) Acenaphthene-d10	14.224	164	1260	0.400	ng	0.00
19) Phenanthrene-d10	16.984	188	2273	0.400	ng	# 0.01
29) Chrysene-d12	21.171	240	1959	0.400	ng	# 0.00
35) Perylene-d12	23.360	264	2013	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	296	0.126	ng	0.00
5) Phenol-d6	6.766	99	140	0.056	ng	0.00
8) Nitrobenzene-d5	8.739	82	571	0.245	ng	0.01
11) 2-Methylnaphthalene-d10	11.960	152	860	0.272	ng	0.00
14) 2,4,6-Tribromophenol	15.730	330	166	0.317	ng	0.00
15) 2-Fluorobiphenyl	12.853	172	1418	0.268	ng	0.00
27) Fluoranthene-d10	19.012	212	2337	0.393	ng	0.00
31) Terphenyl-d14	19.621	244	2103	0.475	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.104	88	3037	2.308	ng	92
34) Bis(2-ethylhexyl)phtha...	21.099	149	505	0.103	ng	# 94

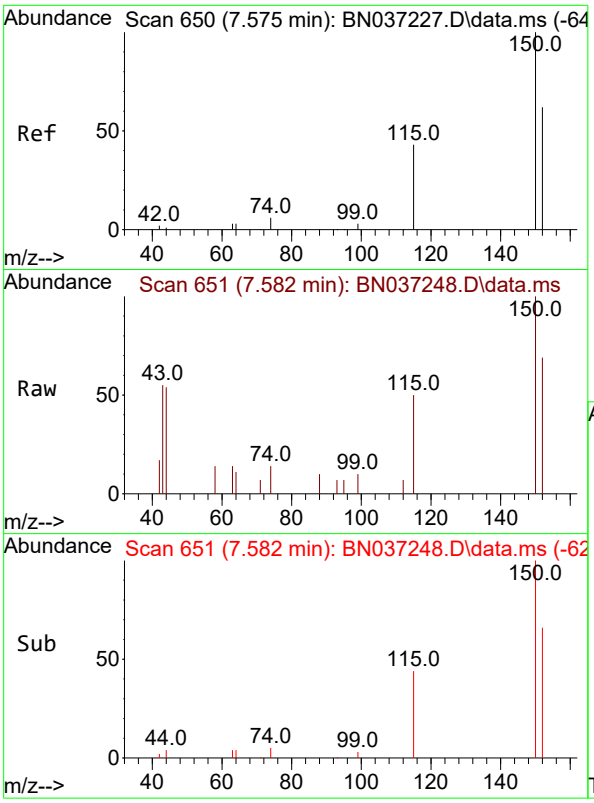
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037248.D
Acq On : 14 Jun 2025 04:45
Operator : RC/JU
Sample : Q2299-05
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609

Quant Time: Jun 14 05:57:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration



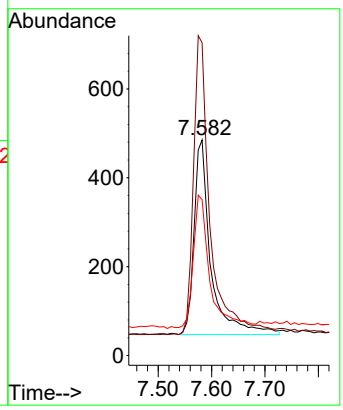


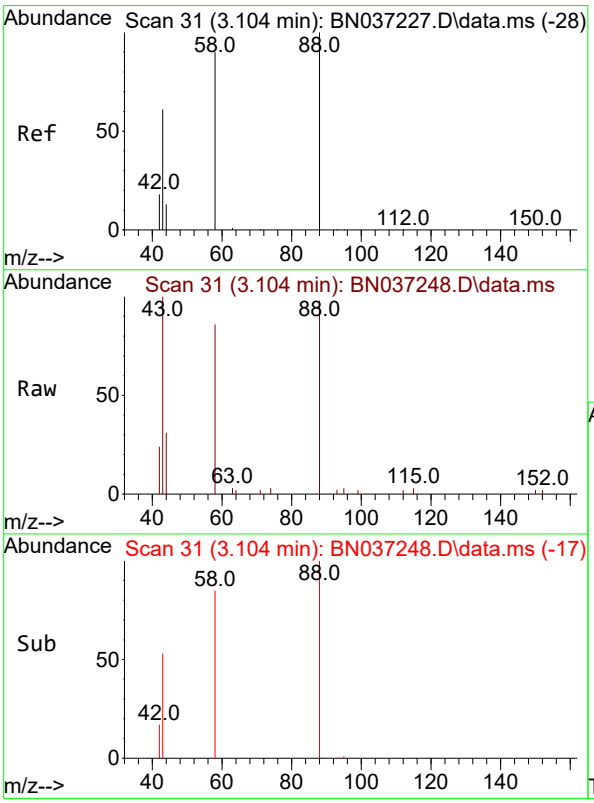
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.582 min Scan# 6
Delta R.T. 0.007 min
Lab File: BN037248.D
Acq: 14 Jun 2025 04:45

Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609

Tgt Ion:152 Resp: 959

Ion	Ratio	Lower	Upper
152	100		
150	145.2	125.2	187.8
115	72.4	58.4	87.6

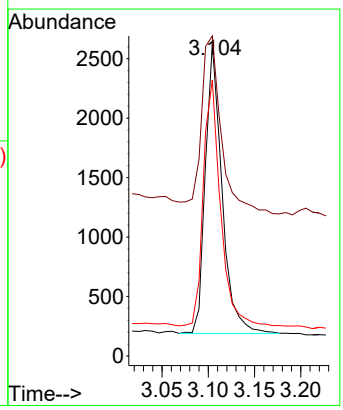


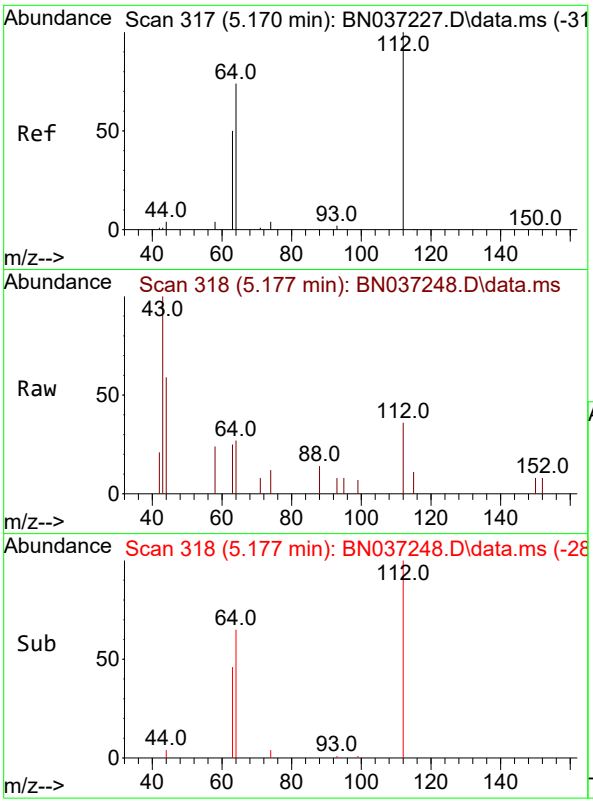


#2
1,4-Dioxane
Concen: 2.308 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037248.D
Acq: 14 Jun 2025 04:45

Tgt Ion: 88 Resp: 3037

Ion	Ratio	Lower	Upper
88	100		
43	75.1	52.6	79.0
58	87.5	73.5	110.3



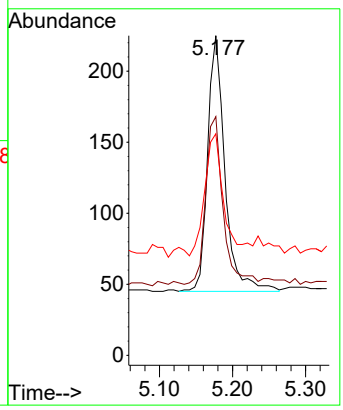


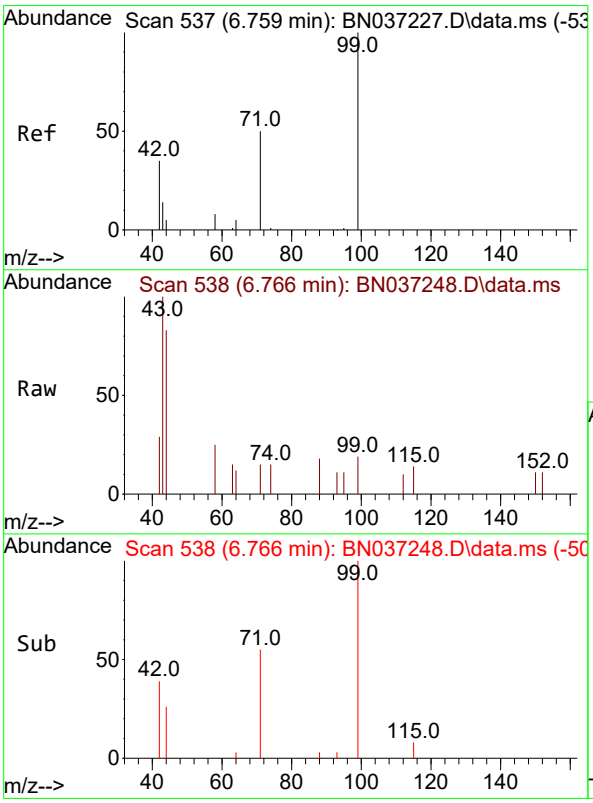
#4
2-Fluorophenol
Concen: 0.126 ng
RT: 5.177 min Scan# 31
Delta R.T. 0.007 min
Lab File: BN037248.D
Acq: 14 Jun 2025 04:45

Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609

Tgt Ion:112 Resp: 296

Ion	Ratio	Lower	Upper
112	100		
64	65.2	57.2	85.8
63	50.7	39.8	59.6

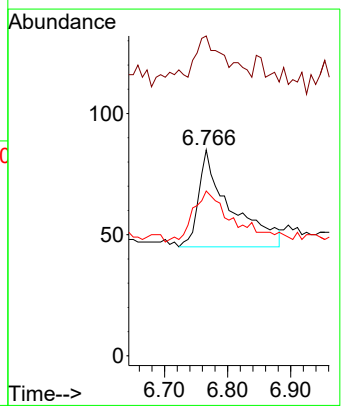


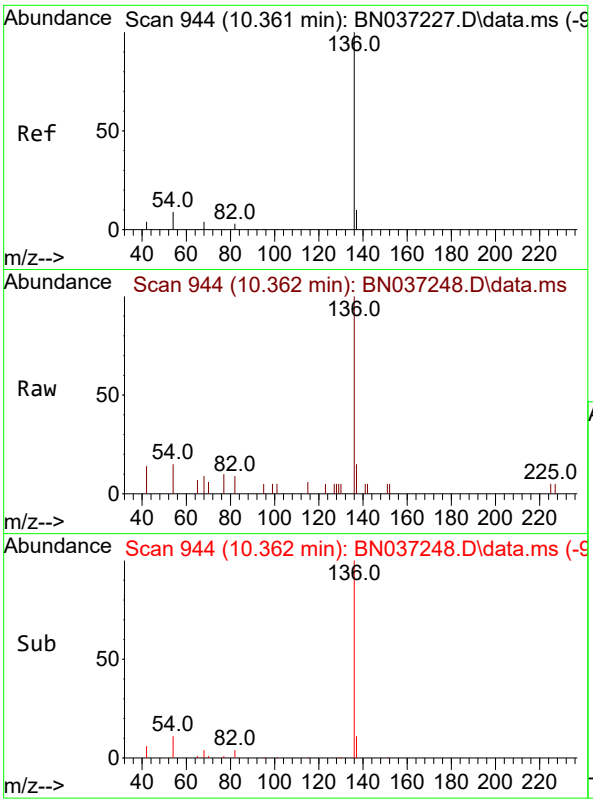


#5
Phenol-d6
Concen: 0.056 ng
RT: 6.766 min Scan# 538
Delta R.T. 0.007 min
Lab File: BN037248.D
Acq: 14 Jun 2025 04:45

Tgt Ion: 99 Resp: 140

Ion	Ratio	Lower	Upper
99	100		
42	39.3	36.2	54.4
71	58.6	42.4	63.6



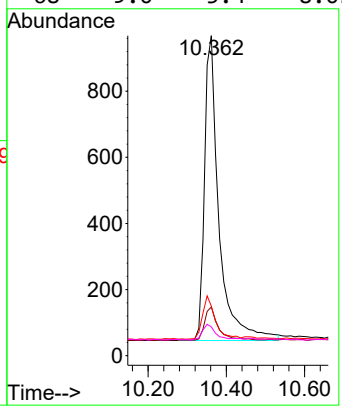


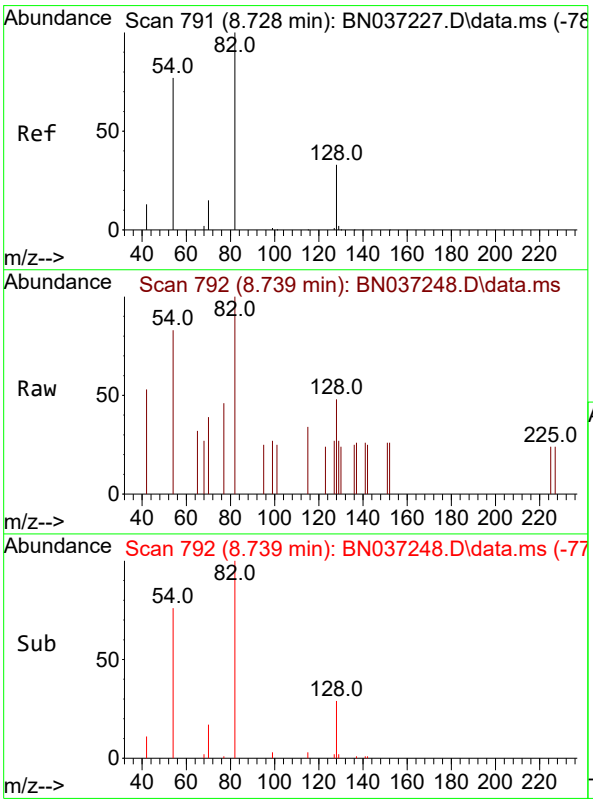
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.362 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037248.D
Acq: 14 Jun 2025 04:45

Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609

Tgt Ion:136 Resp: 2360

Ion	Ratio	Lower	Upper
136	100		
137	15.2	10.6	15.8
54	15.5	9.2	13.8#
68	9.0	5.4	8.0#

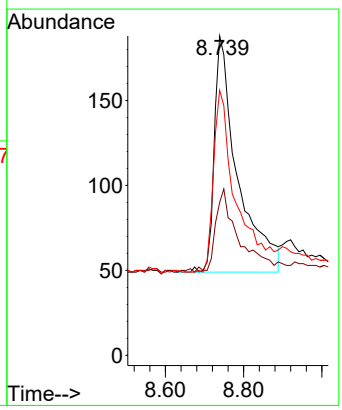


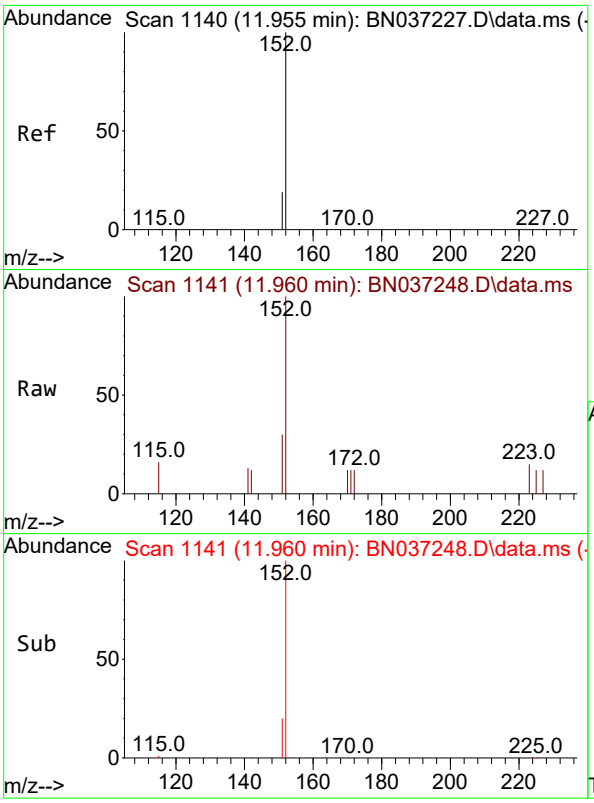


#8
Nitrobenzene-d5
Concen: 0.245 ng
RT: 8.739 min Scan# 792
Delta R.T. 0.011 min
Lab File: BN037248.D
Acq: 14 Jun 2025 04:45

Tgt Ion: 82 Resp: 571

Ion	Ratio	Lower	Upper
82	100		
128	47.9	31.2	46.8#
54	83.0	63.3	94.9



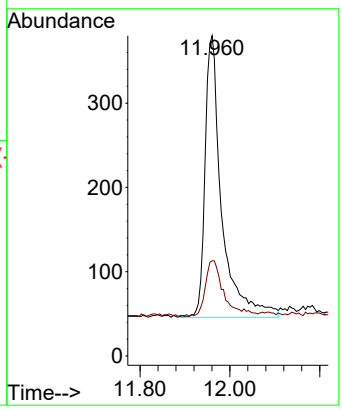


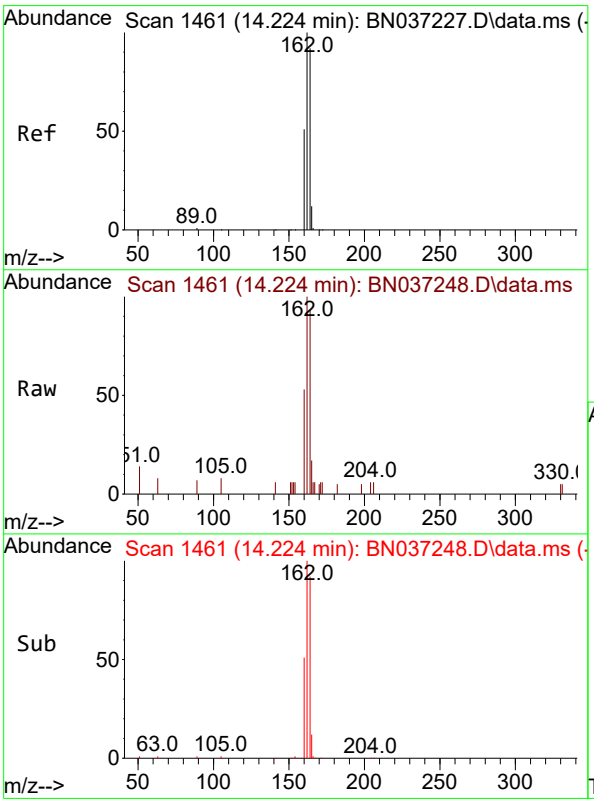
#11
2-Methylnaphthalene-d10
Concen: 0.272 ng
RT: 11.960 min Scan# 11
Delta R.T. 0.005 min
Lab File: BN037248.D
Acq: 14 Jun 2025 04:45

Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609

Tgt Ion:152 Resp: 860

Ion	Ratio	Lower	Upper
152	100		
151	20.6	17.9	26.9

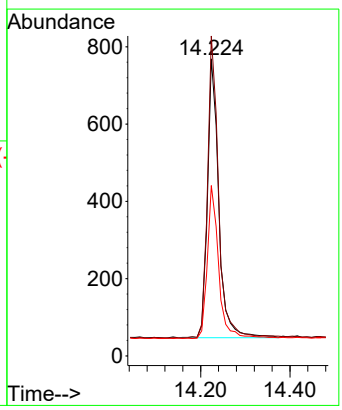


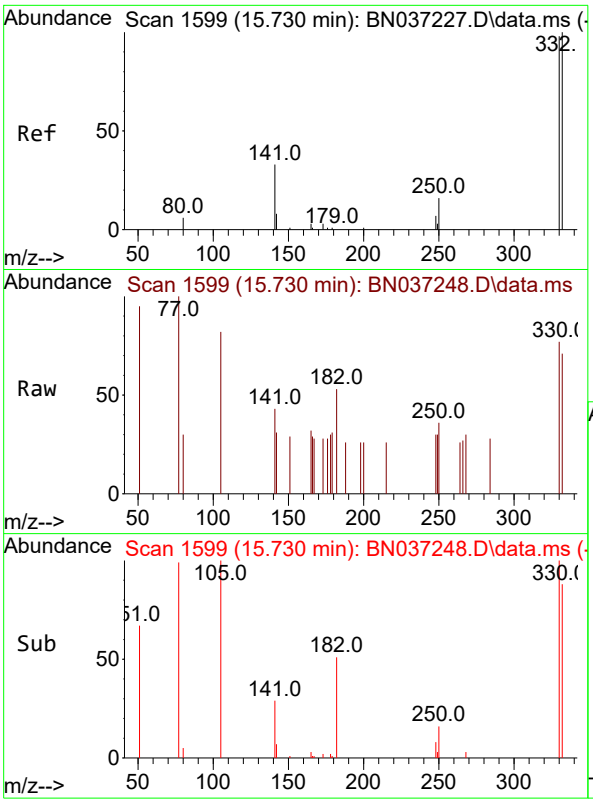


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BN037248.D
Acq: 14 Jun 2025 04:45

Tgt Ion:164 Resp: 1260

Ion	Ratio	Lower	Upper
164	100		
162	107.7	86.7	130.1
160	57.3	45.8	68.6



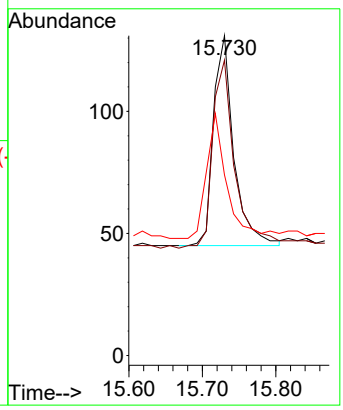


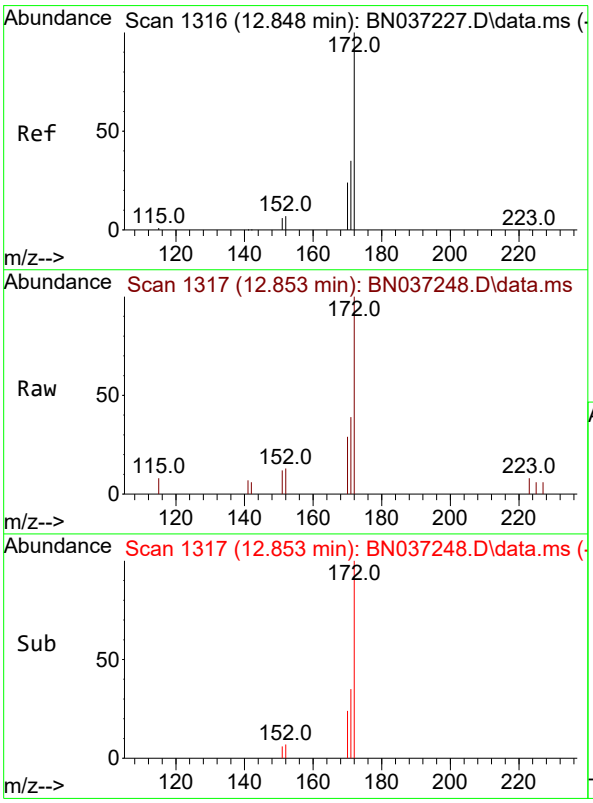
#14
2,4,6-Tribromophenol
Concen: 0.317 ng
RT: 15.730 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037248.D
Acq: 14 Jun 2025 04:45

Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609

Tgt Ion:330 Resp: 166

Ion	Ratio	Lower	Upper
330	100		
332	104.8	74.9	112.3
141	59.6	45.1	67.7

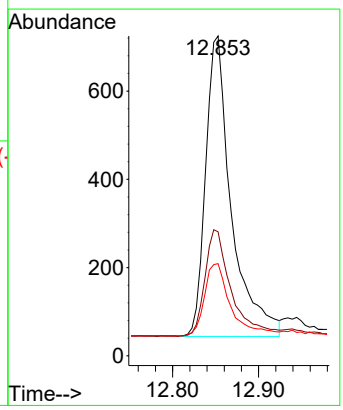


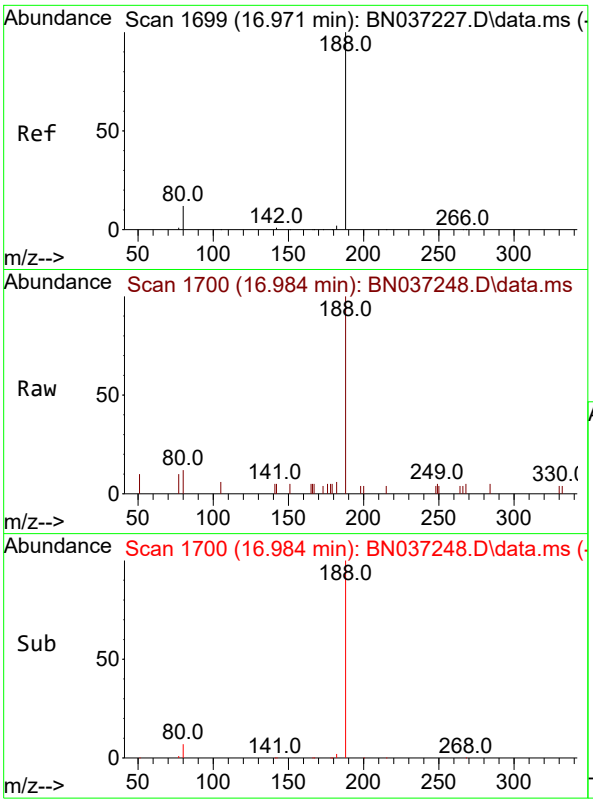


#15
2-Fluorobiphenyl
Concen: 0.268 ng
RT: 12.853 min Scan# 1317
Delta R.T. 0.005 min
Lab File: BN037248.D
Acq: 14 Jun 2025 04:45

Tgt Ion:172 Resp: 1418

Ion	Ratio	Lower	Upper
172	100		
171	38.8	29.8	44.8
170	28.8	21.1	31.7



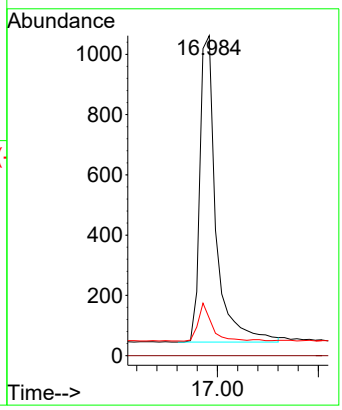


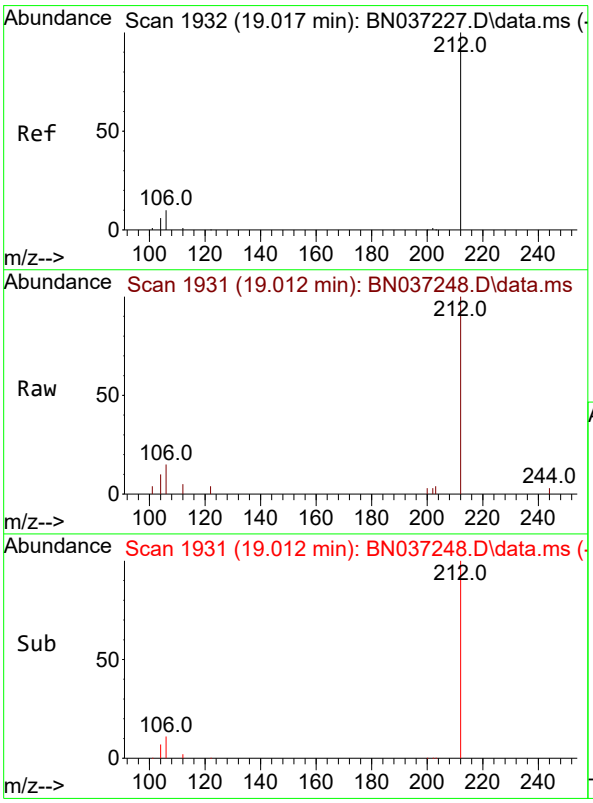
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.984 min Scan# 1
Delta R.T. 0.013 min
Lab File: BN037248.D
Acq: 14 Jun 2025 04:45

Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609

Tgt Ion:188 Resp: 2273

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.7	12.2	18.4#

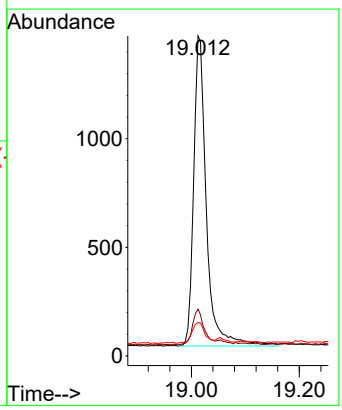


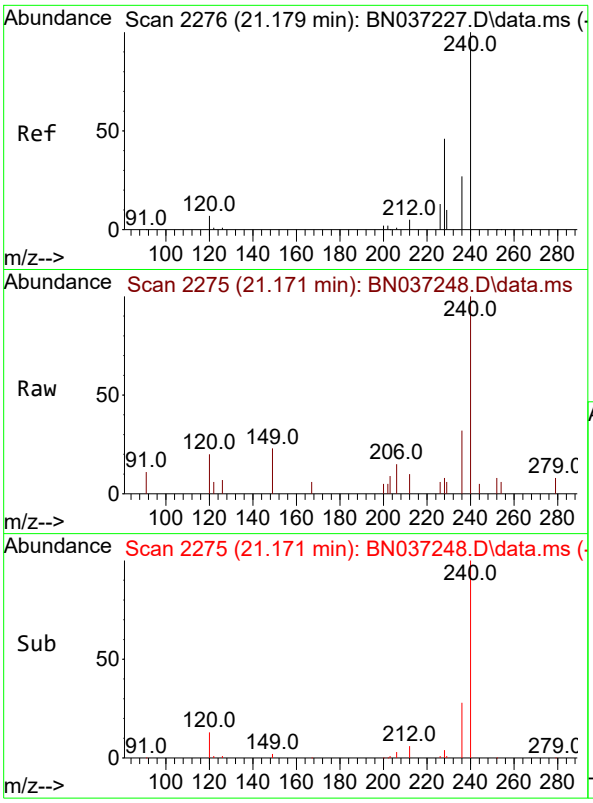


#27
Fluoranthene-d10
Concen: 0.393 ng
RT: 19.012 min Scan# 1931
Delta R.T. -0.005 min
Lab File: BN037248.D
Acq: 14 Jun 2025 04:45

Tgt Ion:212 Resp: 2337

Ion	Ratio	Lower	Upper
212	100		
106	10.3	9.3	13.9
104	6.7	5.7	8.5



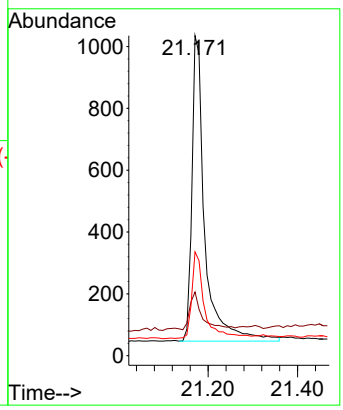


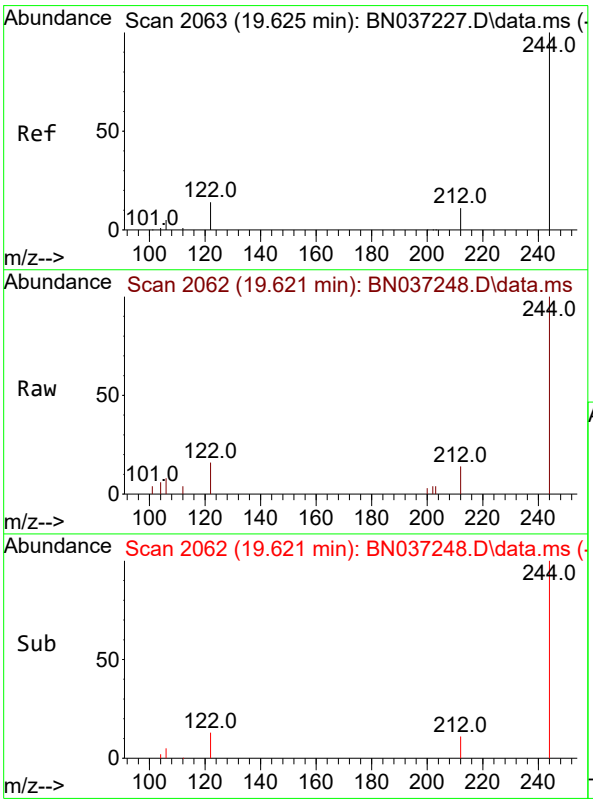
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.171 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037248.D
Acq: 14 Jun 2025 04:45

Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609

Tgt Ion:240 Resp: 1959

Ion	Ratio	Lower	Upper
240	100		
120	19.9	11.3	16.9#
236	32.5	24.4	36.6

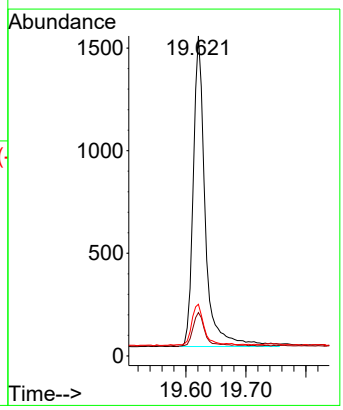


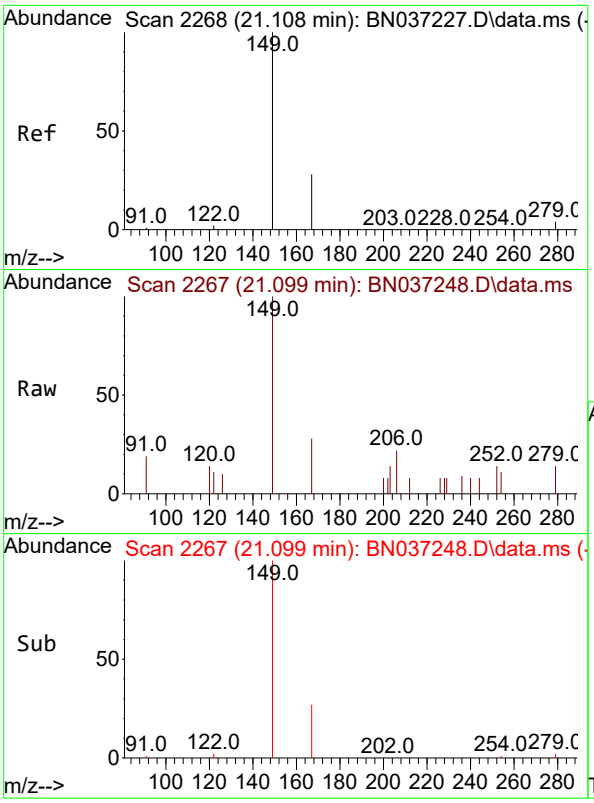


#31
Terphenyl-d14
Concen: 0.475 ng
RT: 19.621 min Scan# 2062
Delta R.T. -0.005 min
Lab File: BN037248.D
Acq: 14 Jun 2025 04:45

Tgt Ion:244 Resp: 2103

Ion	Ratio	Lower	Upper
244	100		
212	13.5	12.2	18.2
122	16.2	14.3	21.5



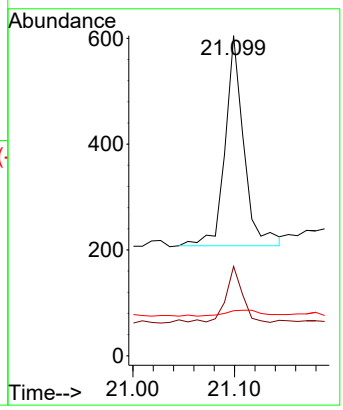


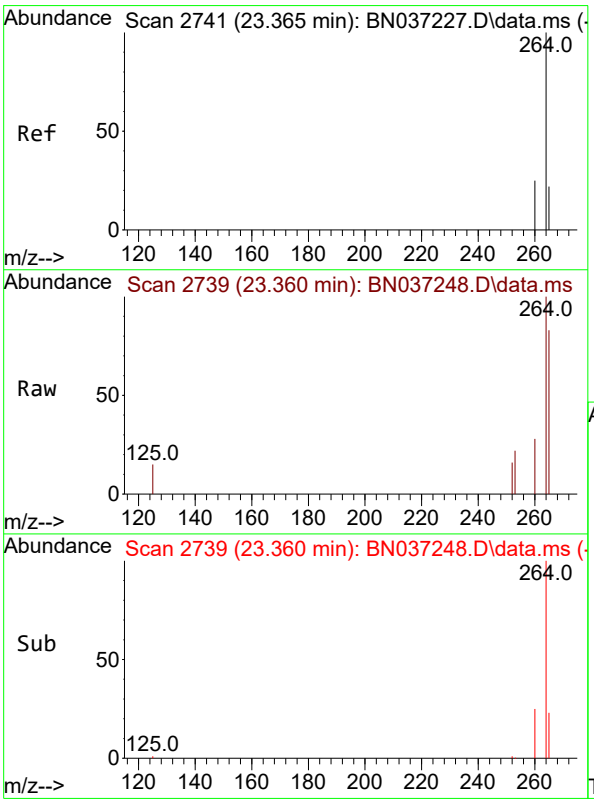
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.103 ng
RT: 21.099 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037248.D
Acq: 14 Jun 2025 04:45

Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609

Tgt Ion:149 Resp: 505

Ion	Ratio	Lower	Upper
149	100		
167	23.4	21.3	31.9
279	5.3	3.3	4.9#

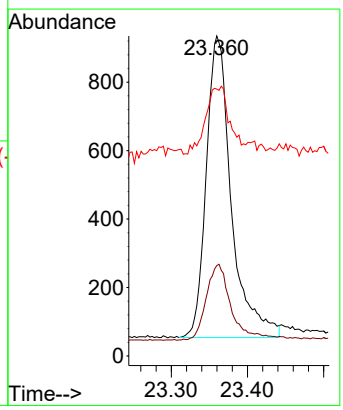




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.360 min Scan# 2739
Delta R.T. -0.006 min
Lab File: BN037248.D
Acq: 14 Jun 2025 04:45

Tgt Ion:264 Resp: 2013

Ion	Ratio	Lower	Upper
264	100		
260	28.2	22.8	34.2
265	83.4	66.4	99.6



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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/09/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/11/25
Client Sample ID:	TT191D2-20250609	SDG No.:	Q2299
Lab Sample ID:	Q2299-06	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037249.D	1	06/13/25 08:03	06/14/25 05:21	PB168458

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.37		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.25		30 - 150		61%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.34		30 - 150		84%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.23		55 - 111		57%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.25		53 - 106		63%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.45		58 - 132		112%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	966	7.575				
1146-65-2	Naphthalene-d8	2320	10.362				
15067-26-2	Acenaphthene-d10	1240	14.224				
1517-22-2	Phenanthrene-d10	2180	16.984				
1719-03-5	Chrysene-d12	1690	21.171				
1520-96-3	Perylene-d12	1750	23.363				

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_N\Data\BN061325\
Data File : BN037249.D
Acq On : 14 Jun 2025 05:21
Operator : RC/JU
Sample : Q2299-06
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT191D2-20250609

Quant Time: Jun 14 05:57:43 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration

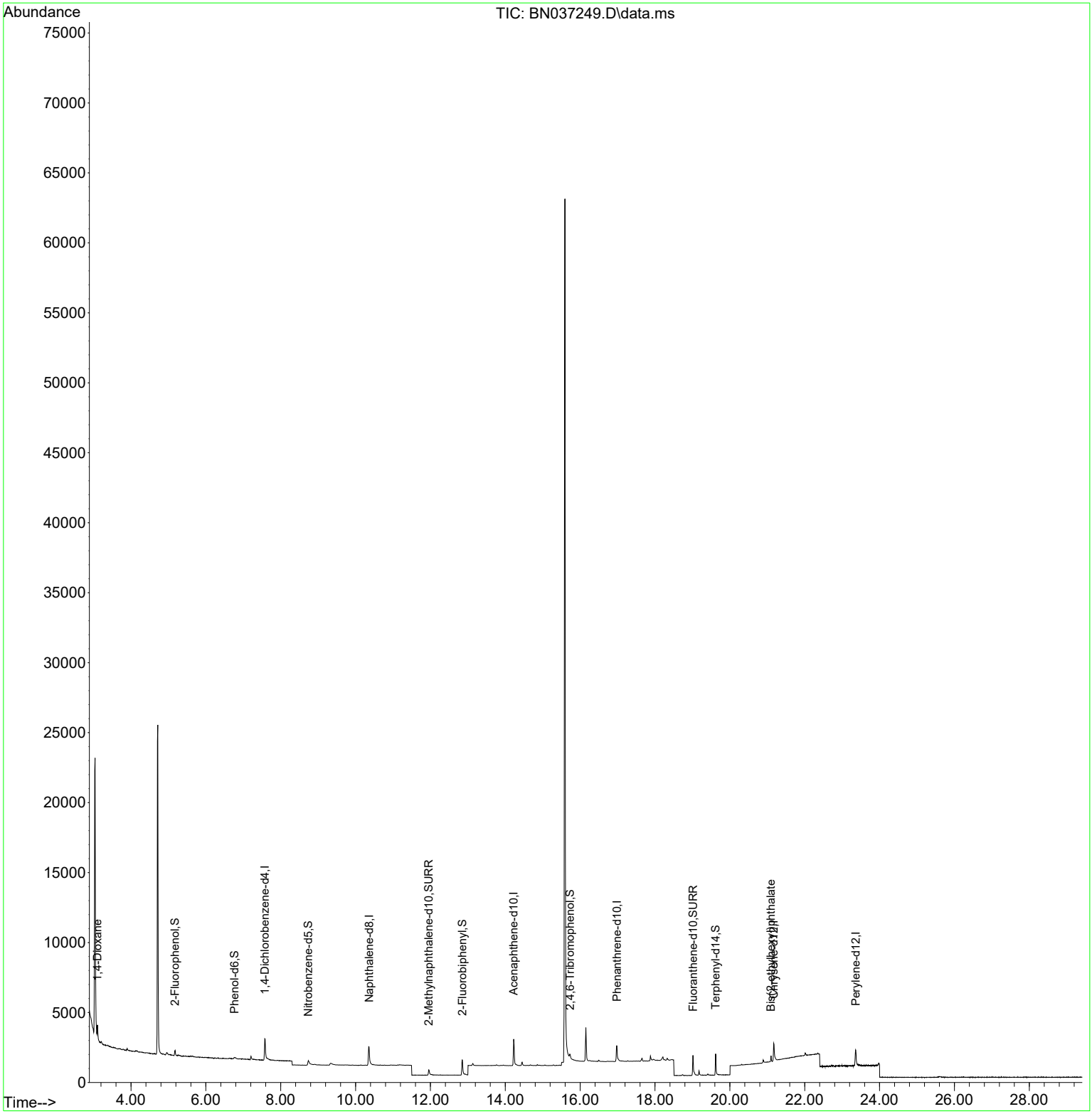
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	966	0.400	ng	0.00
7) Naphthalene-d8	10.362	136	2320	0.400	ng	# 0.00
13) Acenaphthene-d10	14.224	164	1237	0.400	ng	0.00
19) Phenanthrene-d10	16.984	188	2179	0.400	ng	# 0.01
29) Chrysene-d12	21.171	240	1692	0.400	ng	# 0.00
35) Perylene-d12	23.363	264	1750	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	274	0.115	ng	0.00
5) Phenol-d6	6.766	99	142	0.057	ng	0.00
8) Nitrobenzene-d5	8.739	82	523	0.228	ng	0.01
11) 2-Methylnaphthalene-d10	11.955	152	763	0.245	ng	0.00
14) 2,4,6-Tribromophenol	15.730	330	162	0.315	ng	0.00
15) 2-Fluorobiphenyl	12.853	172	1316	0.253	ng	0.00
27) Fluoranthene-d10	19.017	212	1914	0.336	ng	0.00
31) Terphenyl-d14	19.621	244	1705	0.446	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.104	88	485	0.366	ng	# 68
34) Bis(2-ethylhexyl)phtha...	21.099	149	356	0.084	ng	# 92

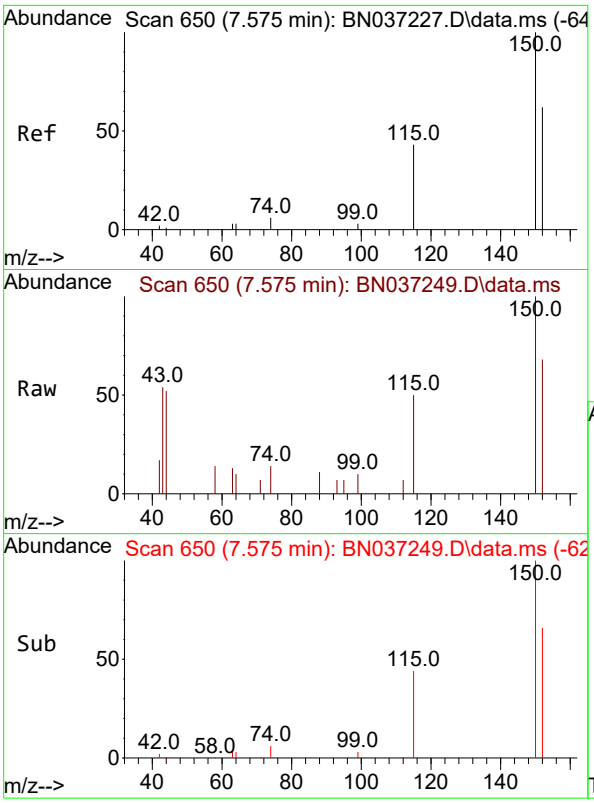
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037249.D
Acq On : 14 Jun 2025 05:21
Operator : RC/JU
Sample : Q2299-06
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT191D2-20250609

Quant Time: Jun 14 05:57:43 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration



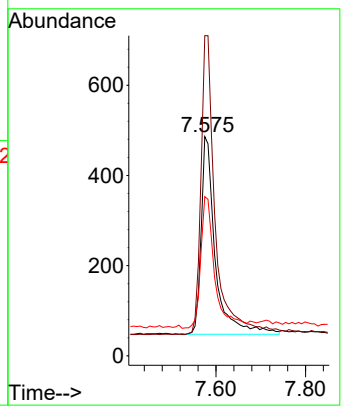


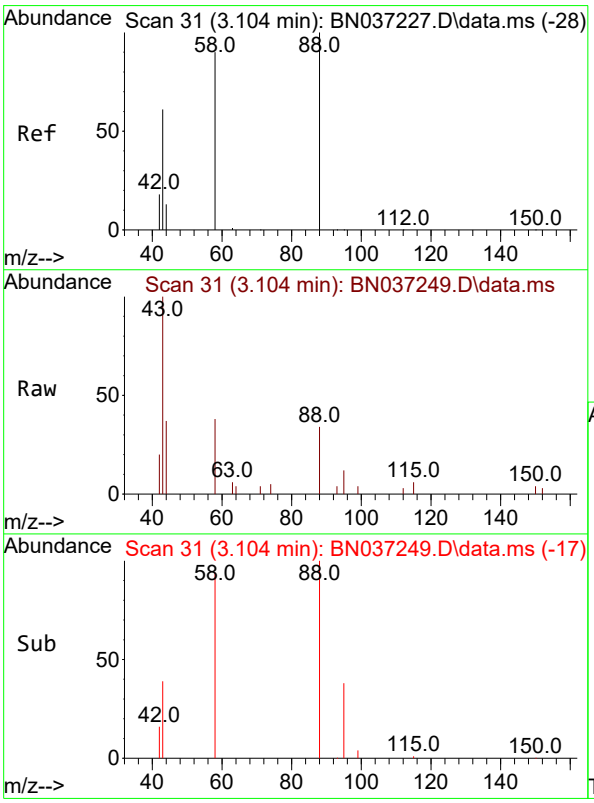
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN037249.D
Acq: 14 Jun 2025 05:21

Instrument :
BNA_N
ClientSampleId :
TT191D2-20250609

Tgt Ion:152 Resp: 966

Ion	Ratio	Lower	Upper
152	100		
150	146.1	125.2	187.8
115	72.6	58.4	87.6

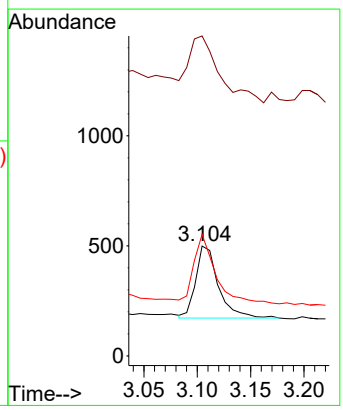


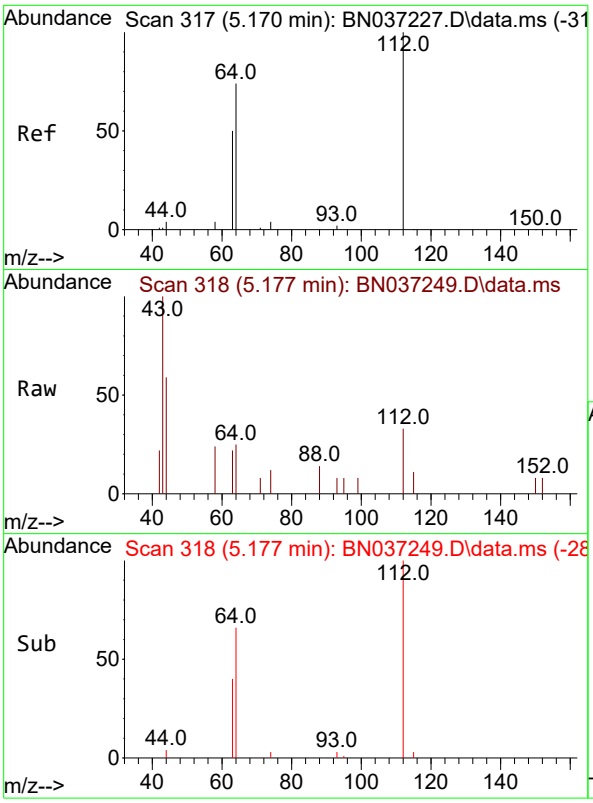


#2
1,4-Dioxane
Concen: 0.366 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037249.D
Acq: 14 Jun 2025 05:21

Tgt Ion: 88 Resp: 485

Ion	Ratio	Lower	Upper
88	100		
43	125.8	52.6	79.0#
58	92.0	73.5	110.3



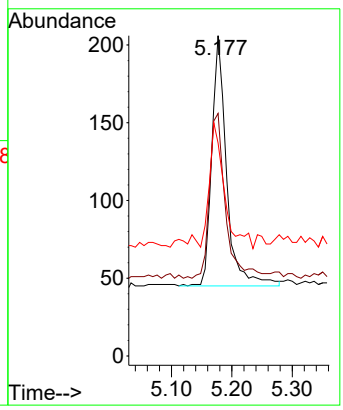


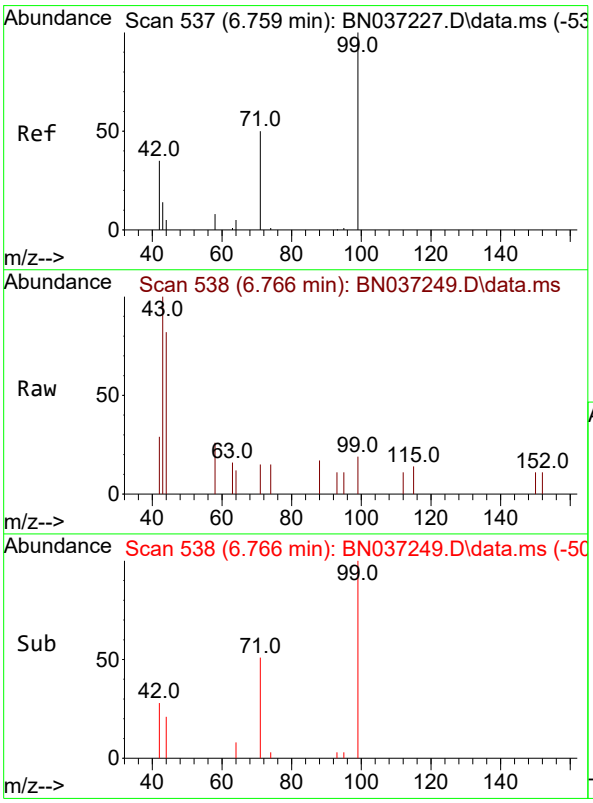
#4
2-Fluorophenol
Concen: 0.115 ng
RT: 5.177 min Scan# 31
Delta R.T. 0.007 min
Lab File: BN037249.D
Acq: 14 Jun 2025 05:21

Instrument :
BNA_N
ClientSampleId :
TT191D2-20250609

Tgt Ion:112 Resp: 274

Ion	Ratio	Lower	Upper
112	100		
64	70.8	57.2	85.8
63	51.1	39.8	59.6

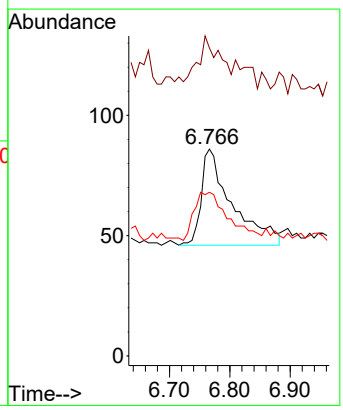


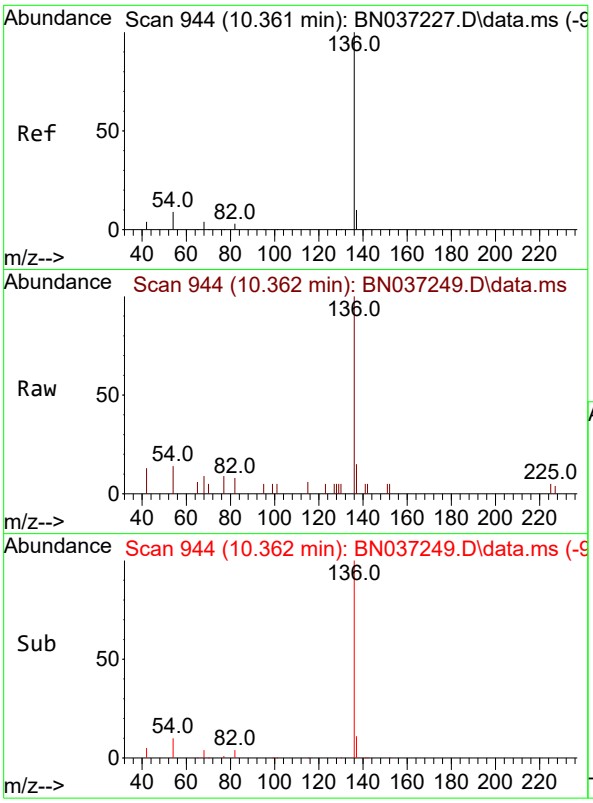


#5
Phenol-d6
Concen: 0.057 ng
RT: 6.766 min Scan# 538
Delta R.T. 0.007 min
Lab File: BN037249.D
Acq: 14 Jun 2025 05:21

Tgt Ion: 99 Resp: 142

Ion	Ratio	Lower	Upper
99	100		
42	30.3	36.2	54.4#
71	55.6	42.4	63.6



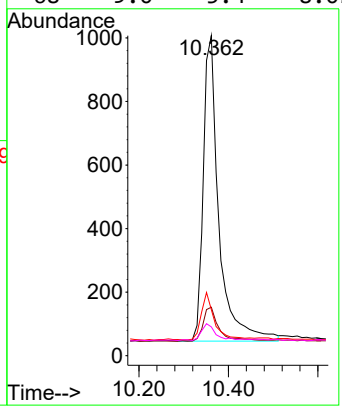


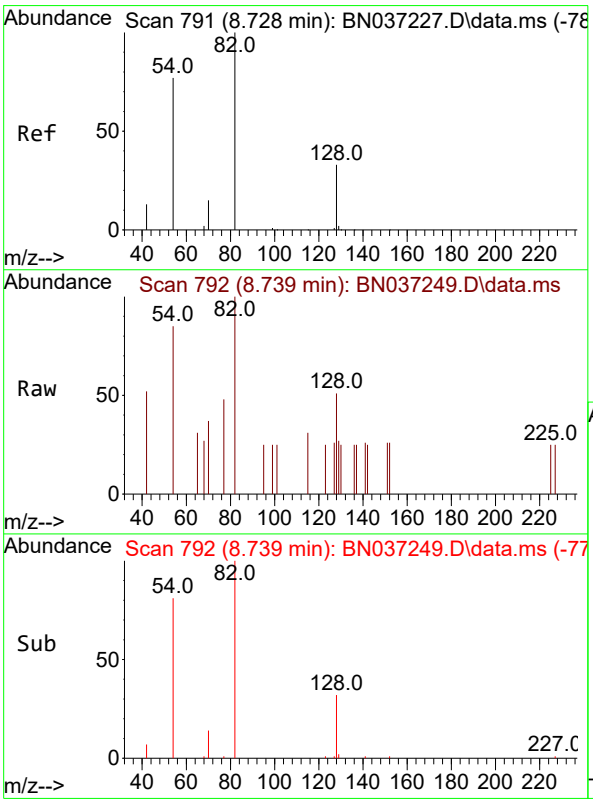
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.362 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037249.D
Acq: 14 Jun 2025 05:21

Instrument :
BNA_N
ClientSampleId :
TT191D2-20250609

Tgt Ion:136 Resp: 2320

Ion	Ratio	Lower	Upper
136	100		
137	15.2	10.6	15.8
54	14.4	9.2	13.8#
68	9.0	5.4	8.0#

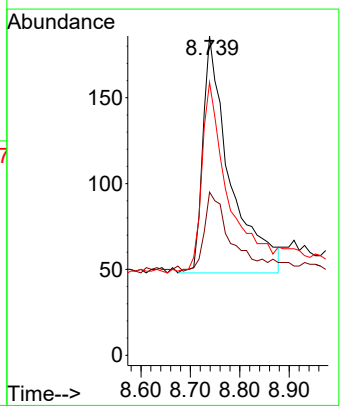


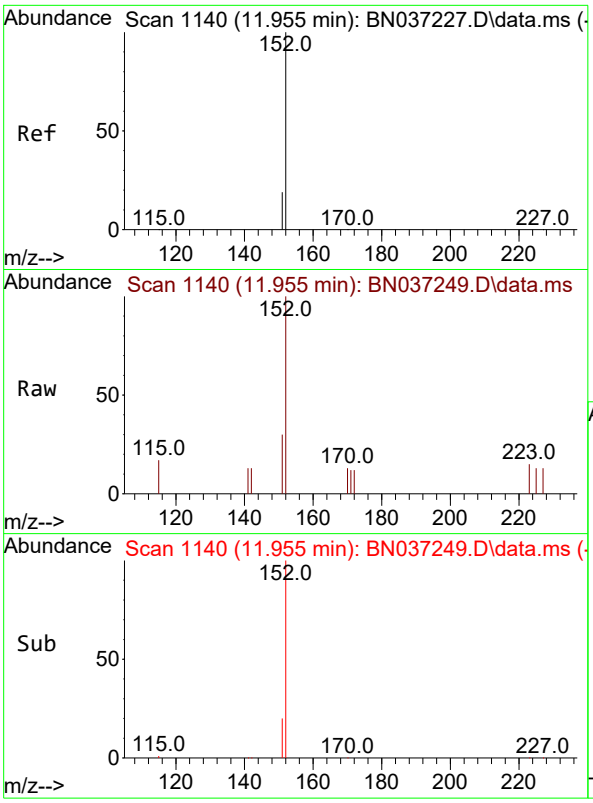


#8
Nitrobenzene-d5
Concen: 0.228 ng
RT: 8.739 min Scan# 792
Delta R.T. 0.011 min
Lab File: BN037249.D
Acq: 14 Jun 2025 05:21

Tgt Ion: 82 Resp: 523

Ion	Ratio	Lower	Upper
82	100		
128	51.1	31.2	46.8#
54	85.5	63.3	94.9



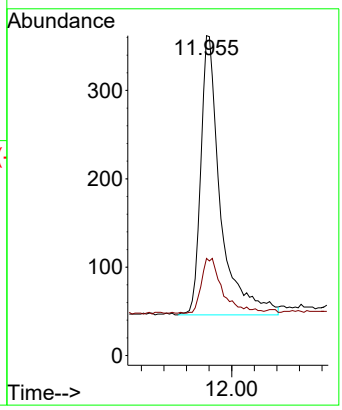


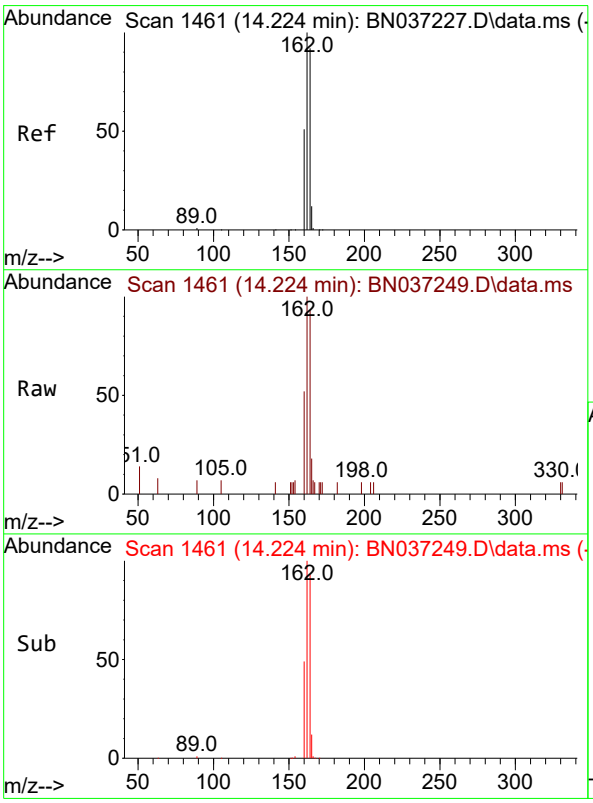
#11
2-Methylnaphthalene-d10
Concen: 0.245 ng
RT: 11.955 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN037249.D
Acq: 14 Jun 2025 05:21

Instrument :
BNA_N
ClientSampleId :
TT191D2-20250609

Tgt Ion:152 Resp: 763

Ion	Ratio	Lower	Upper
152	100		
151	21.0	17.9	26.9

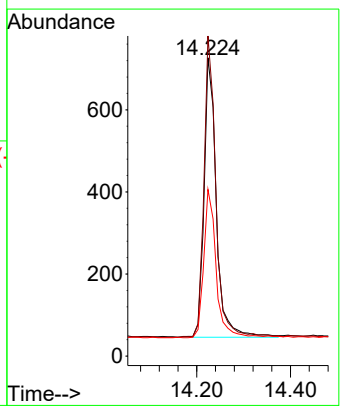


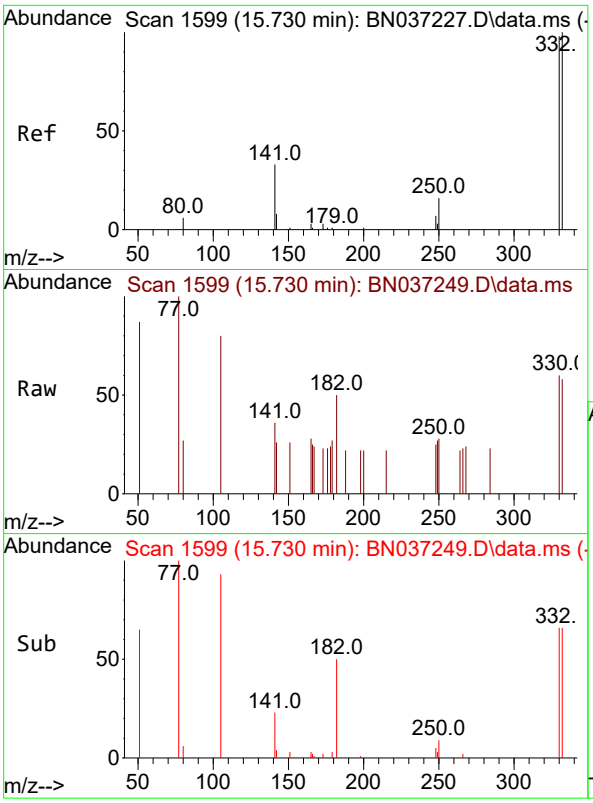


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BN037249.D
Acq: 14 Jun 2025 05:21

Tgt Ion:164 Resp: 1237

Ion	Ratio	Lower	Upper
164	100		
162	107.3	86.7	130.1
160	55.8	45.8	68.6



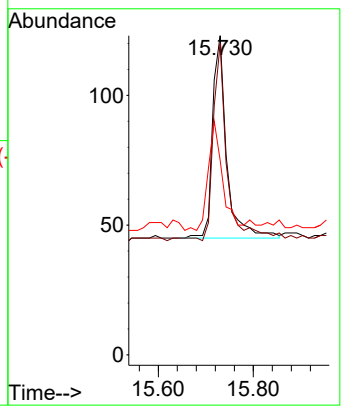


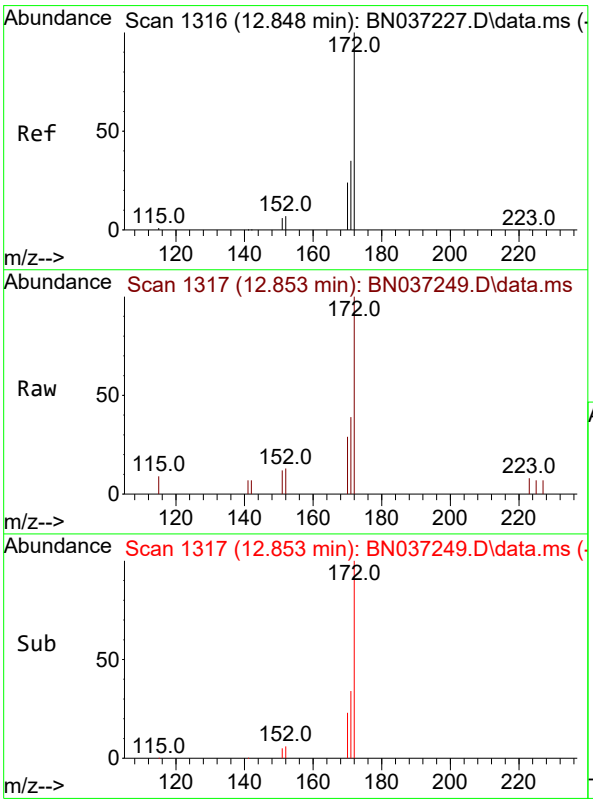
#14
2,4,6-Tribromophenol
Concen: 0.315 ng
RT: 15.730 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037249.D
Acq: 14 Jun 2025 05:21

Instrument :
BNA_N
ClientSampleId :
TT191D2-20250609

Tgt Ion:330 Resp: 162

Ion	Ratio	Lower	Upper
330	100		
332	88.3	74.9	112.3
141	54.3	45.1	67.7

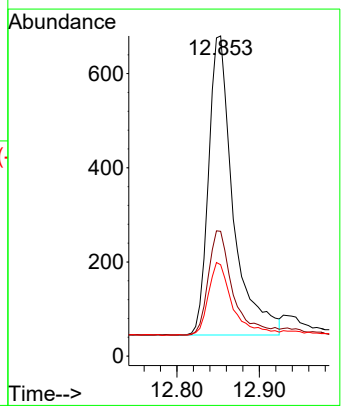


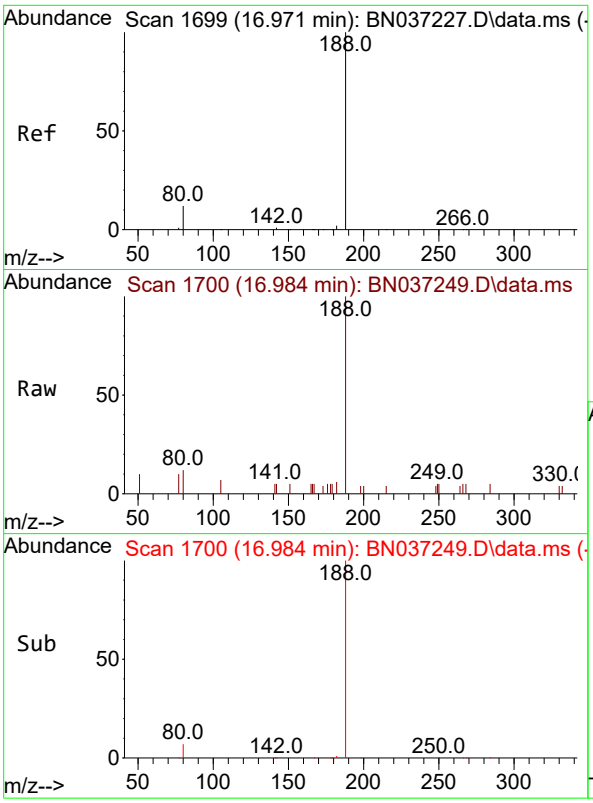


#15
2-Fluorobiphenyl
Concen: 0.253 ng
RT: 12.853 min Scan# 1317
Delta R.T. 0.005 min
Lab File: BN037249.D
Acq: 14 Jun 2025 05:21

Tgt Ion:172 Resp: 1316

Ion	Ratio	Lower	Upper
172	100		
171	39.0	29.8	44.8
170	28.5	21.1	31.7



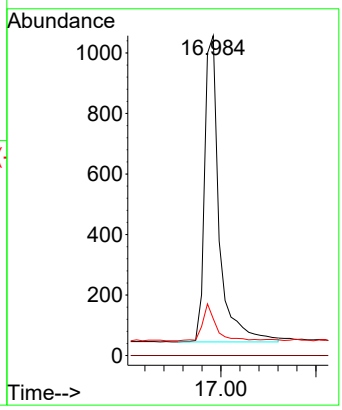


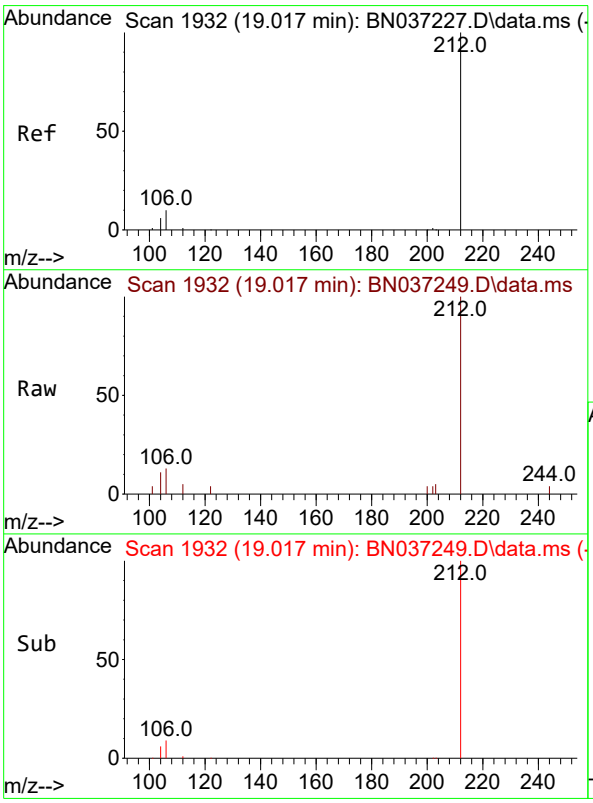
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.984 min Scan# 1
Delta R.T. 0.013 min
Lab File: BN037249.D
Acq: 14 Jun 2025 05:21

Instrument :
BNA_N
ClientSampleId :
TT191D2-20250609

Tgt Ion:188 Resp: 2179

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.5	12.2	18.4#

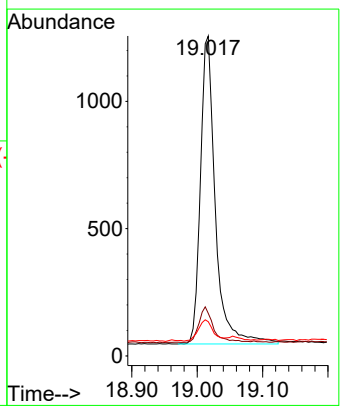


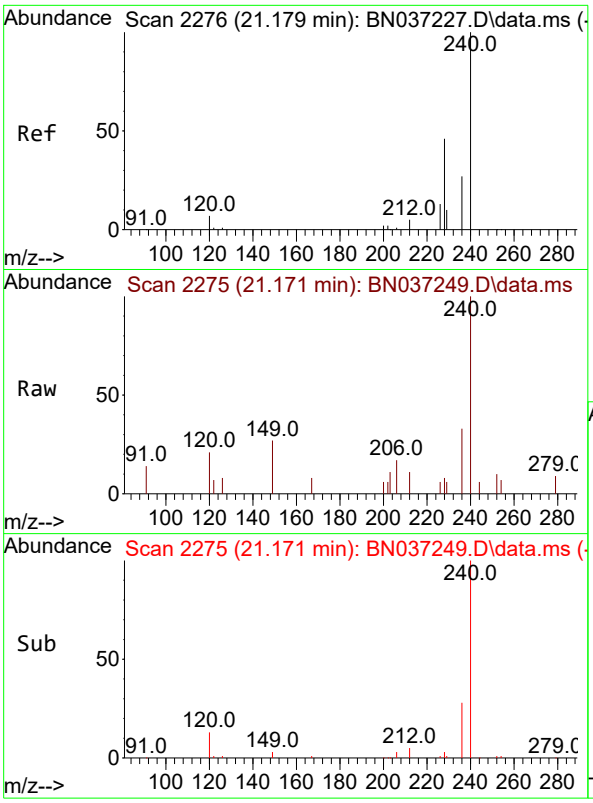


#27
Fluoranthene-d10
Concen: 0.336 ng
RT: 19.017 min Scan# 1932
Delta R.T. 0.000 min
Lab File: BN037249.D
Acq: 14 Jun 2025 05:21

Tgt Ion:212 Resp: 1914

Ion	Ratio	Lower	Upper
212	100		
106	11.1	9.3	13.9
104	6.8	5.7	8.5



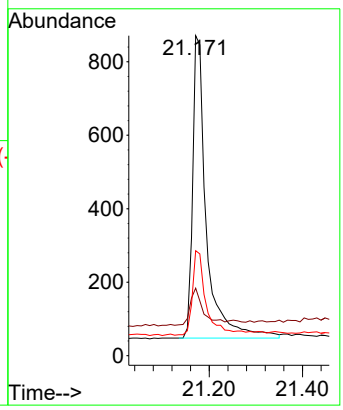


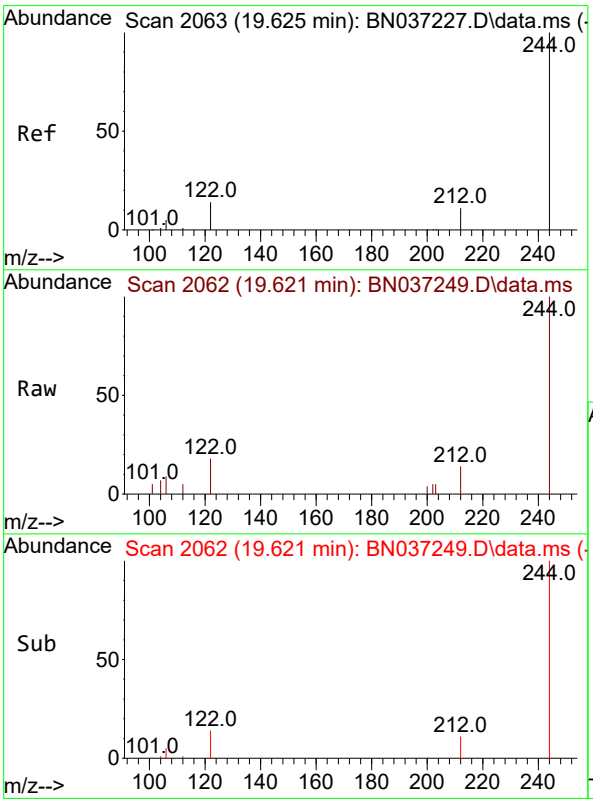
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.171 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037249.D
Acq: 14 Jun 2025 05:21

Instrument :
BNA_N
ClientSampleId :
TT191D2-20250609

Tgt Ion:240 Resp: 1692

Ion	Ratio	Lower	Upper
240	100		
120	21.1	11.3	16.9#
236	32.8	24.4	36.6

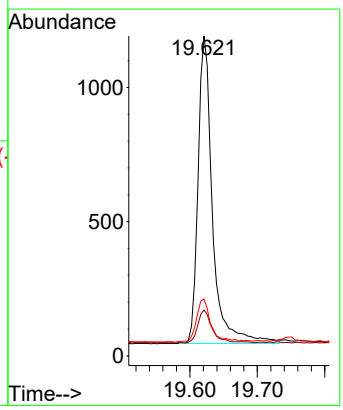


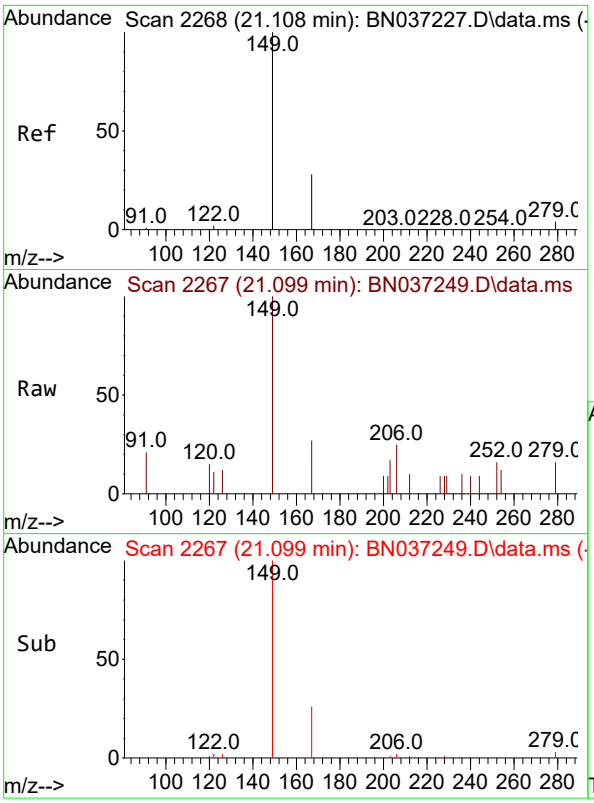


#31
Terphenyl-d14
Concen: 0.446 ng
RT: 19.621 min Scan# 2062
Delta R.T. -0.004 min
Lab File: BN037249.D
Acq: 14 Jun 2025 05:21

Tgt Ion:244 Resp: 1705

Ion	Ratio	Lower	Upper
244	100		
212	14.3	12.2	18.2
122	17.8	14.3	21.5



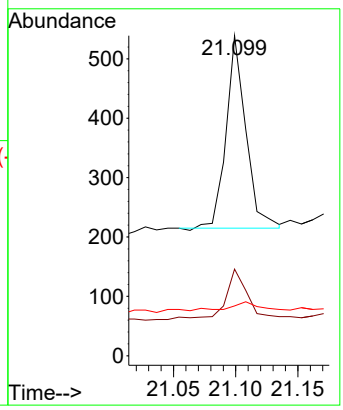


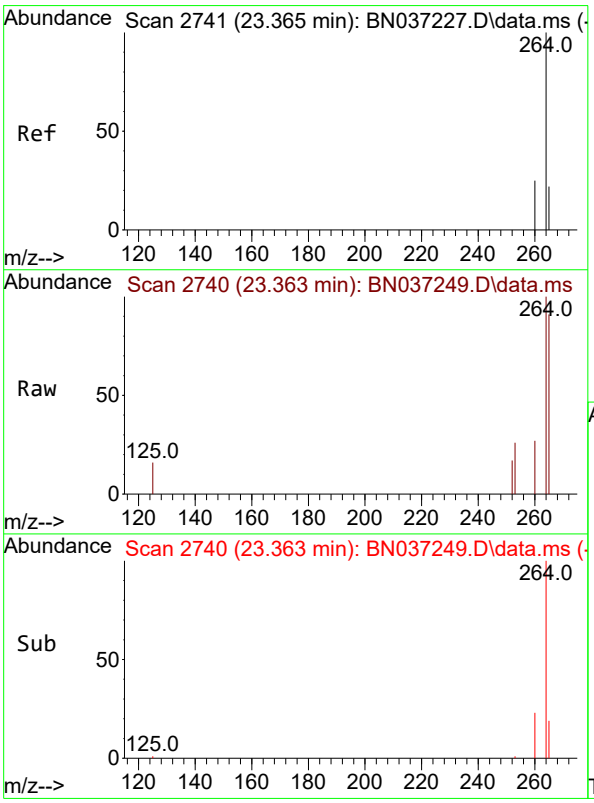
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.084 ng
RT: 21.099 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037249.D
Acq: 14 Jun 2025 05:21

Instrument :
BNA_N
ClientSampleId :
TT191D2-20250609

Tgt Ion:149 Resp: 356

Ion	Ratio	Lower	Upper
149	100		
167	30.6	21.3	31.9
279	6.7	3.3	4.9#

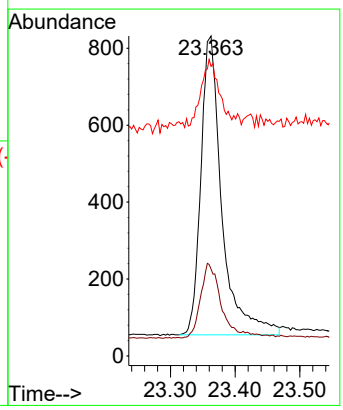




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.363 min Scan# 2740
Delta R.T. -0.003 min
Lab File: BN037249.D
Acq: 14 Jun 2025 05:21

Tgt Ion:264 Resp: 1750

Ion	Ratio	Lower	Upper
264	100		
260	27.2	22.8	34.2
265	90.5	66.4	99.6



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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/09/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/11/25
Client Sample ID:	RW10-MW01S-20250609	SDG No.:	Q2299
Lab Sample ID:	Q2299-07	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037250.D	1	06/13/25 08:03	06/14/25 05:57	PB168458

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.090	J	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.28		30 - 150		70%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.38		30 - 150		95%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.25		55 - 111		63%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.28		53 - 106		70%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.45		58 - 132		113%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	913	7.582				
1146-65-2	Naphthalene-d8	2260	10.361				
15067-26-2	Acenaphthene-d10	1190	14.224				
1517-22-2	Phenanthrene-d10	2140	16.971				
1719-03-5	Chrysene-d12	1780	21.171				
1520-96-3	Perylene-d12	1850	23.36				

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_N\Data\BN061325\
Data File : BN037250.D
Acq On : 14 Jun 2025 05:57
Operator : RC/JU
Sample : Q2299-07
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20250609

Quant Time: Jun 16 04:51:37 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration

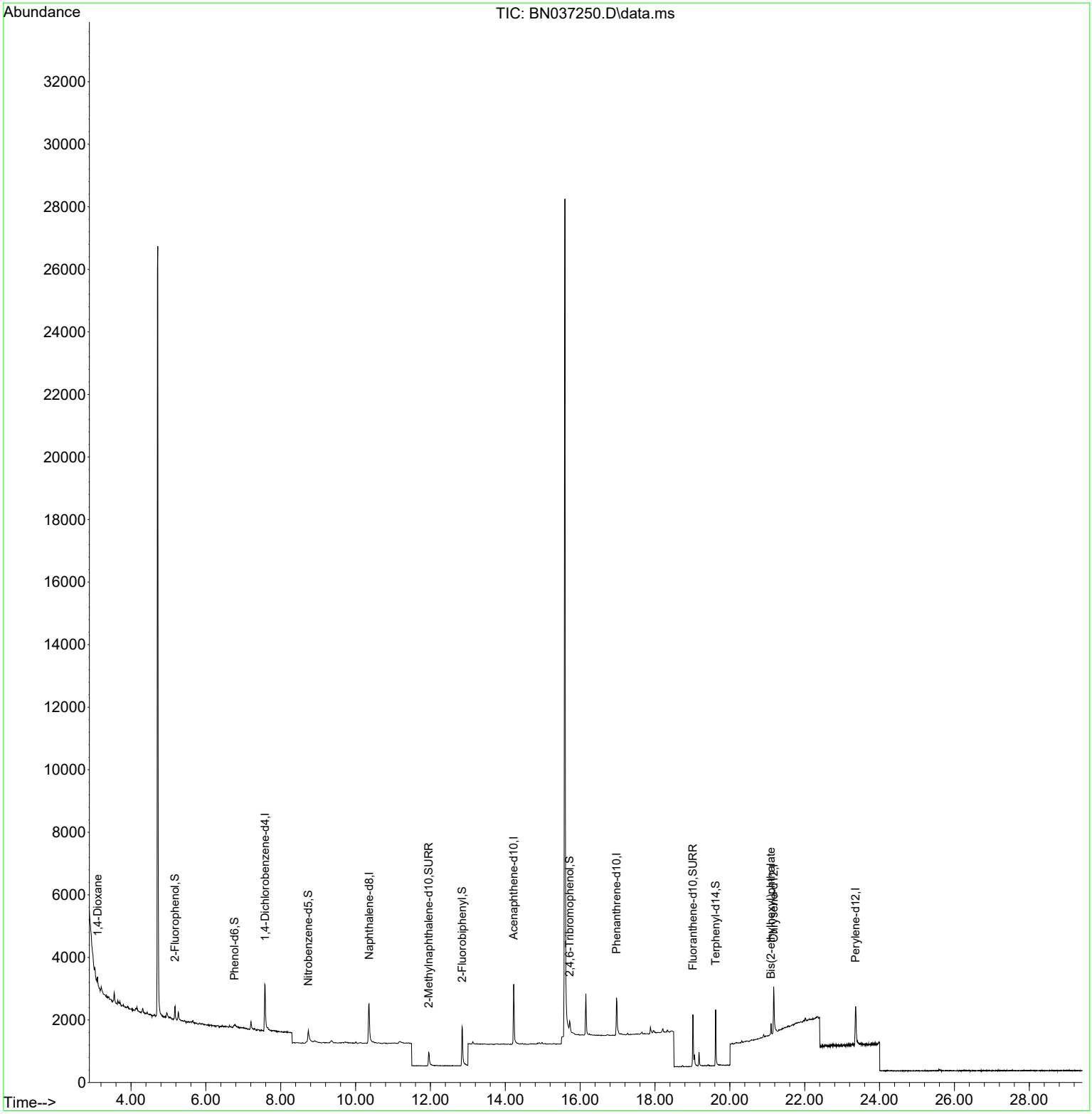
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.582	152	913	0.400	ng	0.00
7) Naphthalene-d8	10.361	136	2259	0.400	ng	# 0.00
13) Acenaphthene-d10	14.224	164	1194	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	2140	0.400	ng	0.00
29) Chrysene-d12	21.171	240	1781	0.400	ng	# 0.00
35) Perylene-d12	23.360	264	1845	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	306	0.136	ng	0.00
5) Phenol-d6	6.766	99	130	0.055	ng	0.00
8) Nitrobenzene-d5	8.739	82	562	0.252	ng	0.01
11) 2-Methylnaphthalene-d10	11.955	152	850	0.280	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	185	0.373	ng	-0.01
15) 2-Fluorobiphenyl	12.848	172	1402	0.279	ng	0.00
27) Fluoranthene-d10	19.012	212	2125	0.380	ng	0.00
31) Terphenyl-d14	19.621	244	1816	0.451	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.112	88	106	0.085	ng	# 1
34) Bis(2-ethylhexyl)phtha...	21.099	149	401	0.090	ng	# 89

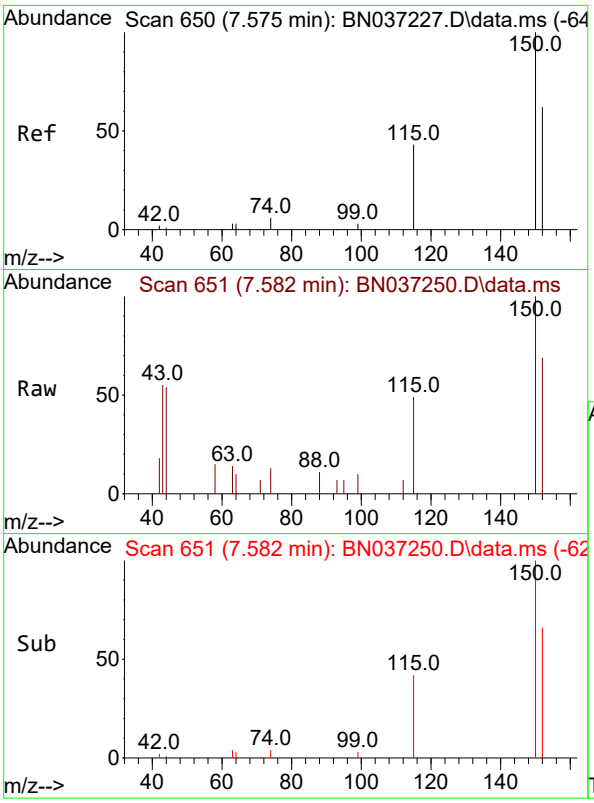
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037250.D
Acq On : 14 Jun 2025 05:57
Operator : RC/JU
Sample : Q2299-07
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20250609

Quant Time: Jun 16 04:51:37 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration



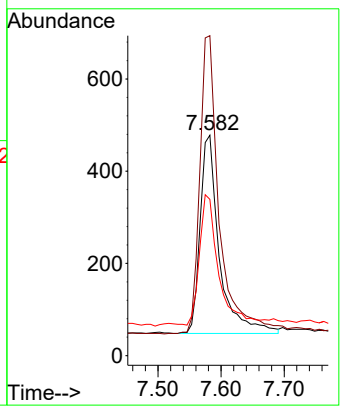


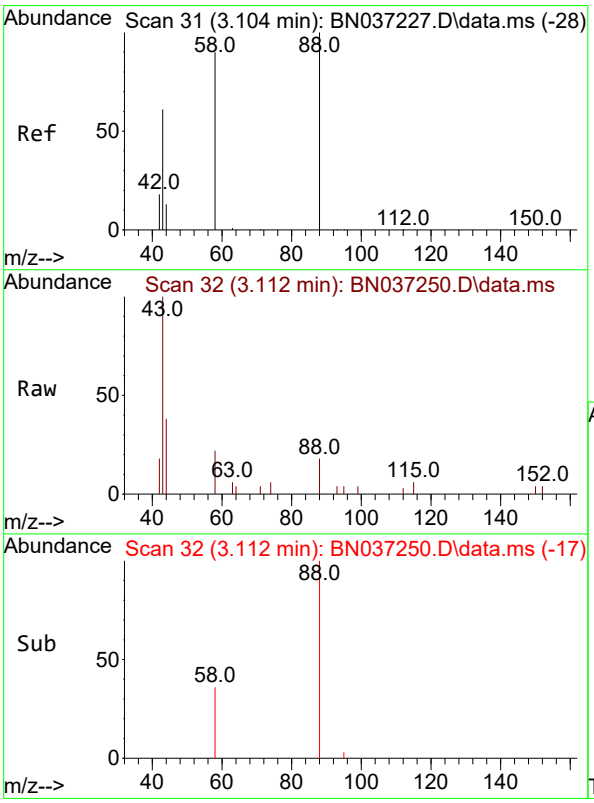
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.582 min Scan# 6
Delta R.T. 0.007 min
Lab File: BN037250.D
Acq: 14 Jun 2025 05:57

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20250609

Tgt Ion:152 Resp: 913

Ion	Ratio	Lower	Upper
152	100		
150	145.2	125.2	187.8
115	70.9	58.4	87.6

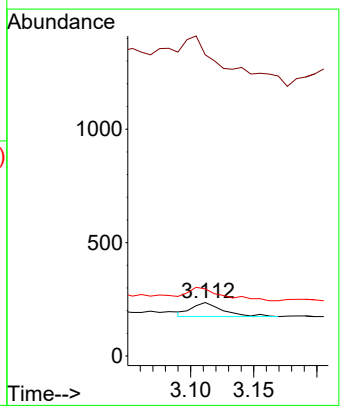


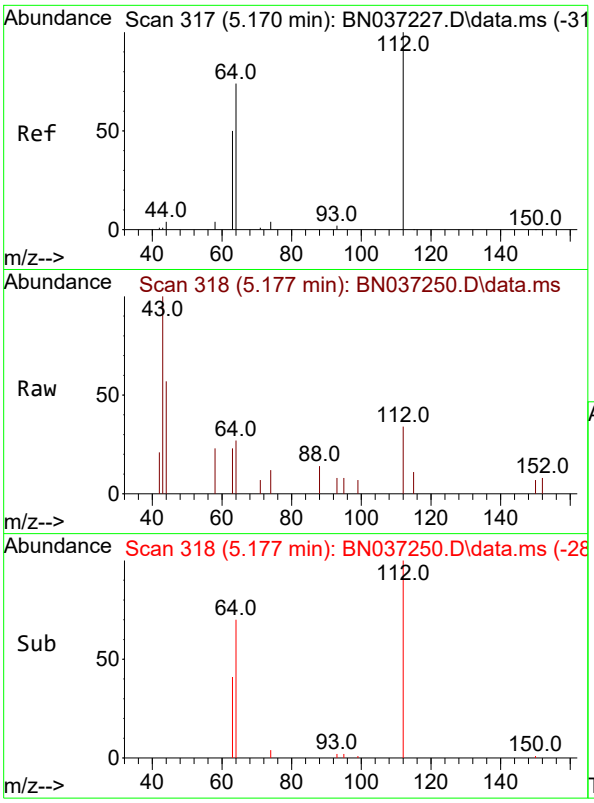


#2
1,4-Dioxane
Concen: 0.085 ng
RT: 3.112 min Scan# 32
Delta R.T. 0.007 min
Lab File: BN037250.D
Acq: 14 Jun 2025 05:57

Tgt Ion: 88 Resp: 106

Ion	Ratio	Lower	Upper
88	100		
43	461.3	52.6	79.0#
58	100.9	73.5	110.3



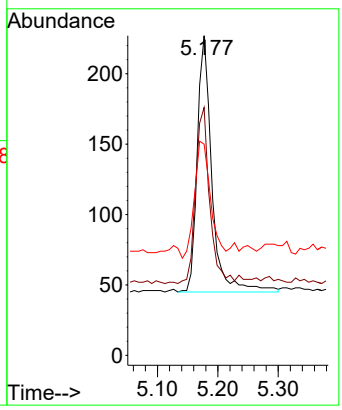


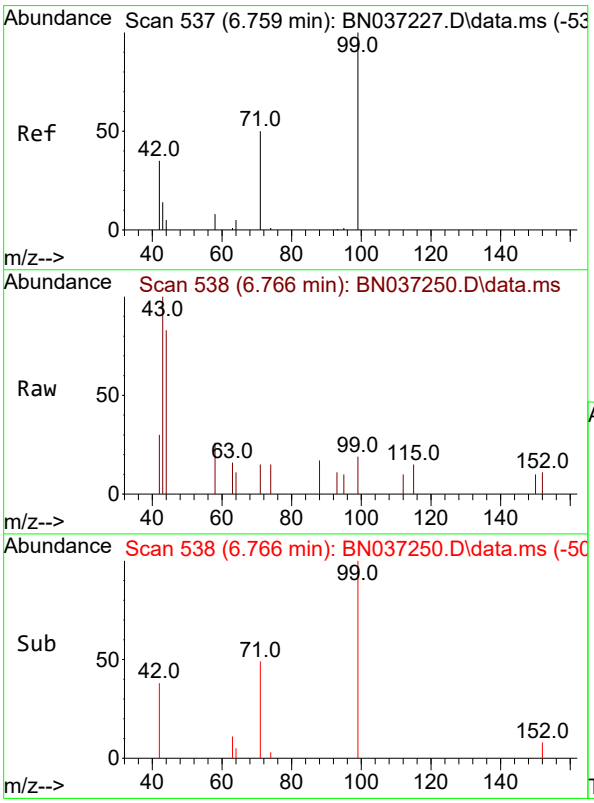
#4
2-Fluorophenol
Concen: 0.136 ng
RT: 5.177 min Scan# 31
Delta R.T. 0.007 min
Lab File: BN037250.D
Acq: 14 Jun 2025 05:57

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20250609

Tgt Ion:112 Resp: 306

Ion	Ratio	Lower	Upper
112	100		
64	66.0	57.2	85.8
63	50.0	39.8	59.6

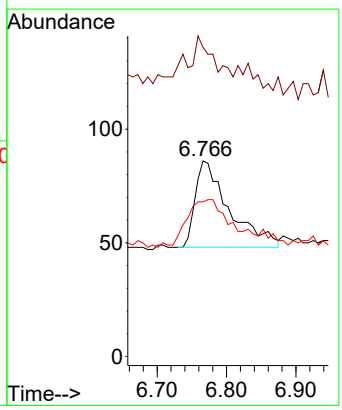


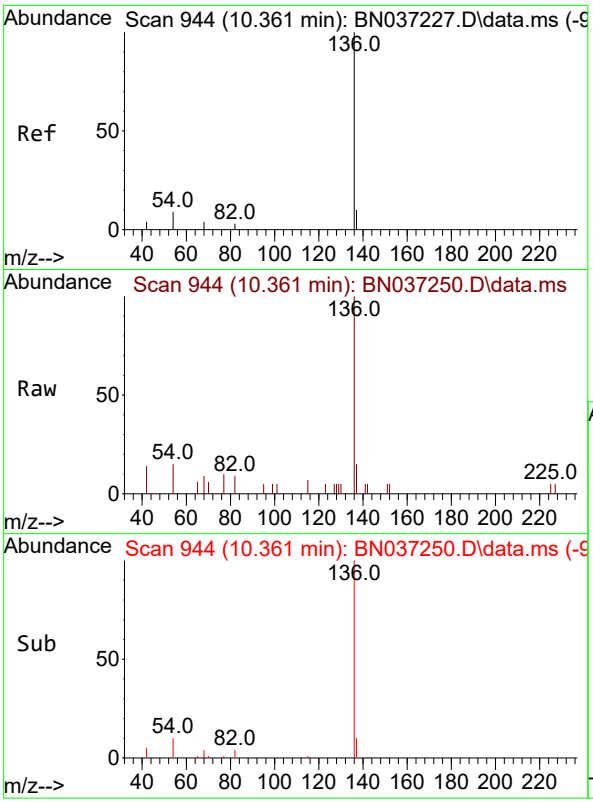


#5
Phenol-d6
Concen: 0.055 ng
RT: 6.766 min Scan# 538
Delta R.T. 0.007 min
Lab File: BN037250.D
Acq: 14 Jun 2025 05:57

Tgt Ion: 99 Resp: 130

Ion	Ratio	Lower	Upper
99	100		
42	23.8	36.2	54.4#
71	72.3	42.4	63.6#



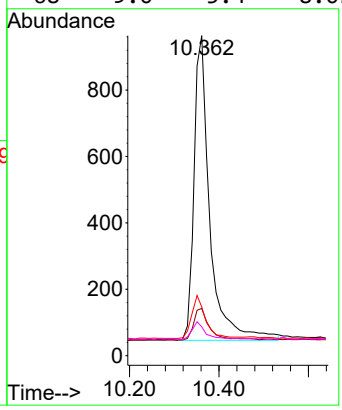


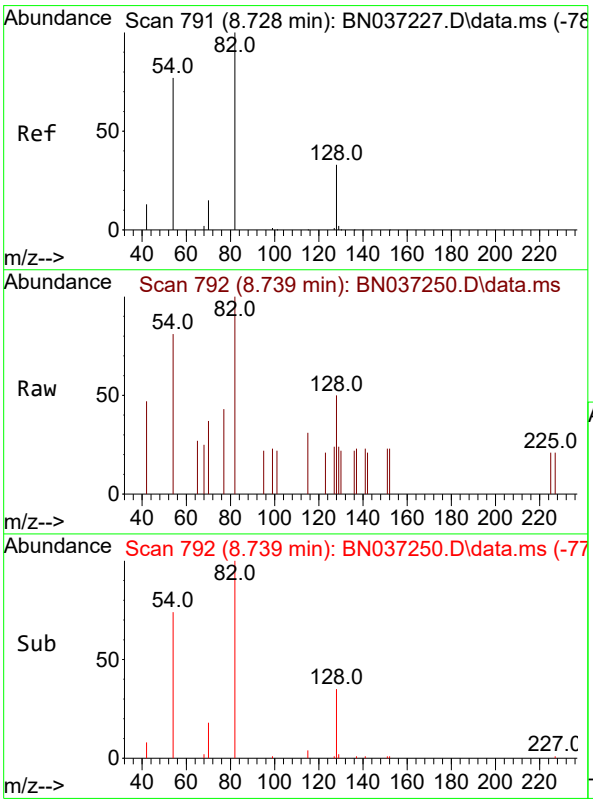
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.361 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037250.D
Acq: 14 Jun 2025 05:57

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20250609

Tgt Ion:136 Resp: 2259

Ion	Ratio	Lower	Upper
136	100		
137	14.7	10.6	15.8
54	15.2	9.2	13.8#
68	9.0	5.4	8.0#

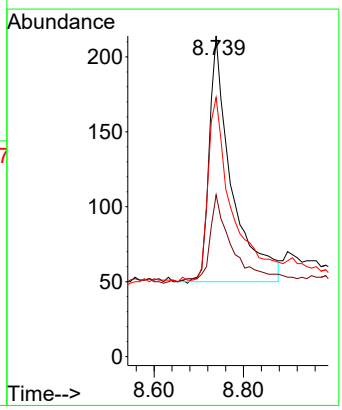


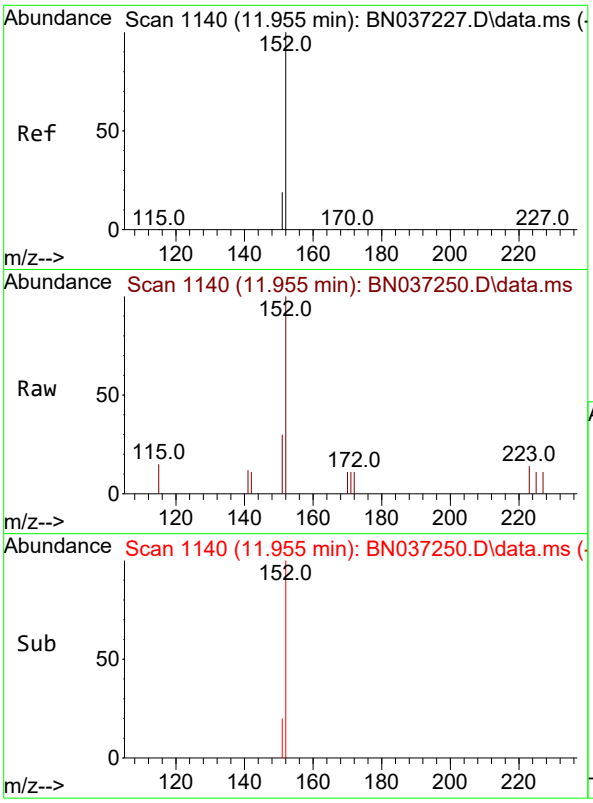


#8
Nitrobenzene-d5
Concen: 0.252 ng
RT: 8.739 min Scan# 792
Delta R.T. 0.011 min
Lab File: BN037250.D
Acq: 14 Jun 2025 05:57

Tgt Ion: 82 Resp: 562

Ion	Ratio	Lower	Upper
82	100		
128	50.5	31.2	46.8#
54	80.8	63.3	94.9



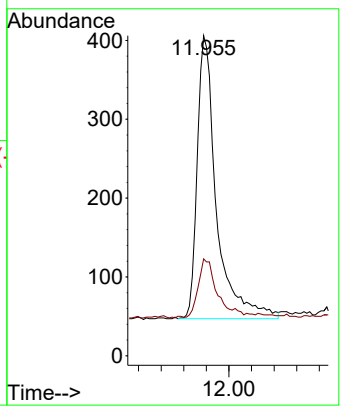


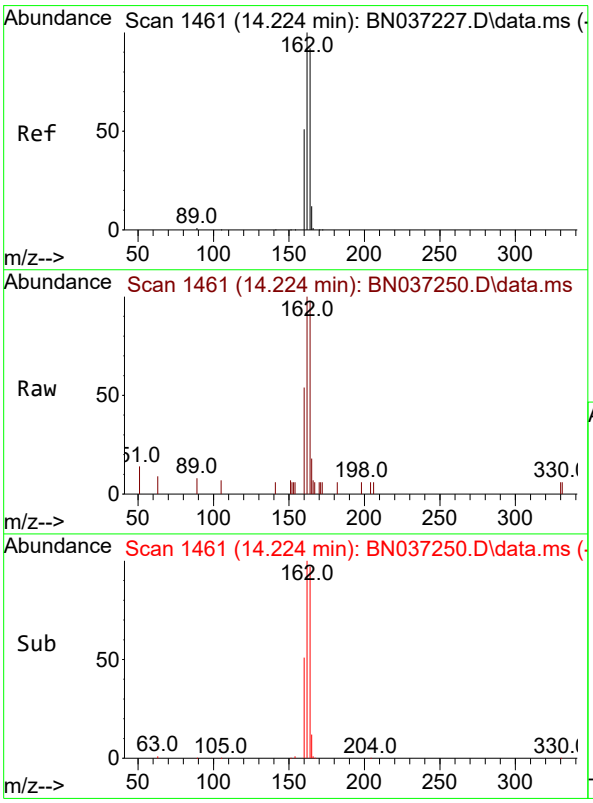
#11
2-Methylnaphthalene-d10
Concen: 0.280 ng
RT: 11.955 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN037250.D
Acq: 14 Jun 2025 05:57

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20250609

Tgt Ion:152 Resp: 850

Ion	Ratio	Lower	Upper
152	100		
151	20.5	17.9	26.9

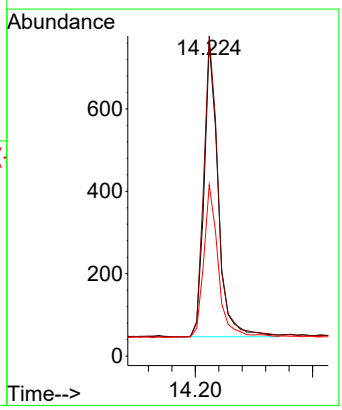


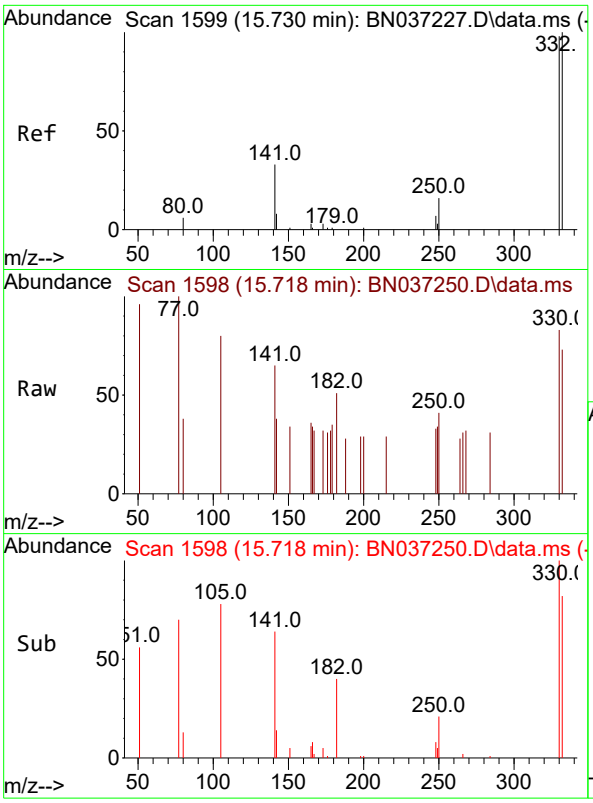


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BN037250.D
Acq: 14 Jun 2025 05:57

Tgt Ion:164 Resp: 1194

Ion	Ratio	Lower	Upper
164	100		
162	102.4	86.7	130.1
160	54.8	45.8	68.6



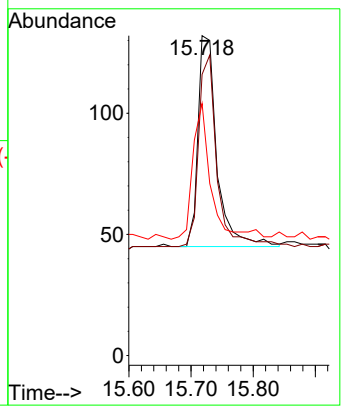


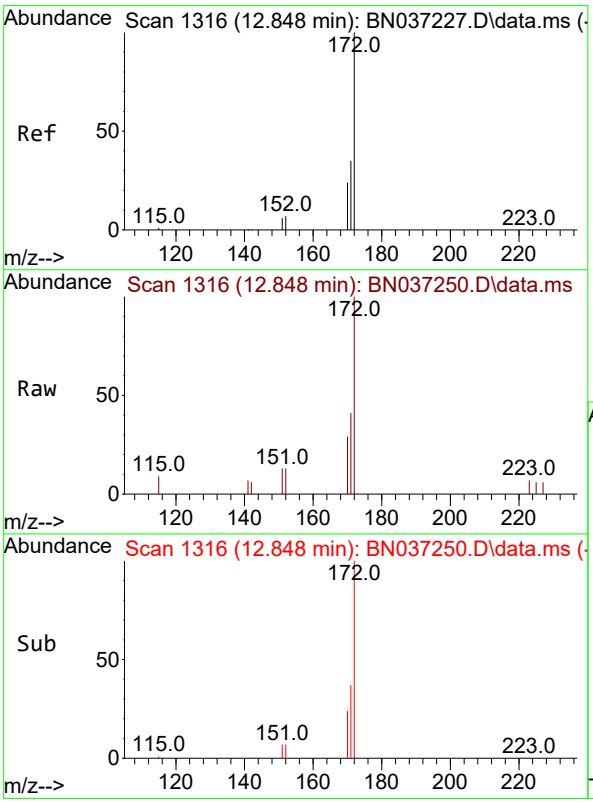
#14
2,4,6-Tribromophenol
Concen: 0.373 ng
RT: 15.718 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037250.D
Acq: 14 Jun 2025 05:57

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20250609

Tgt Ion:330 Resp: 185

Ion	Ratio	Lower	Upper
330	100		
332	87.6	74.9	112.3
141	62.2	45.1	67.7

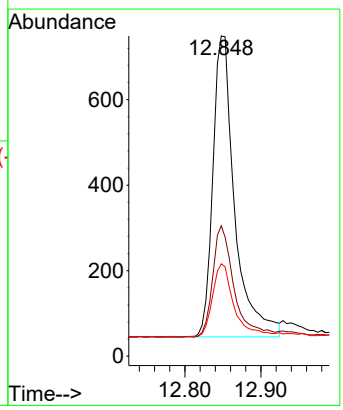


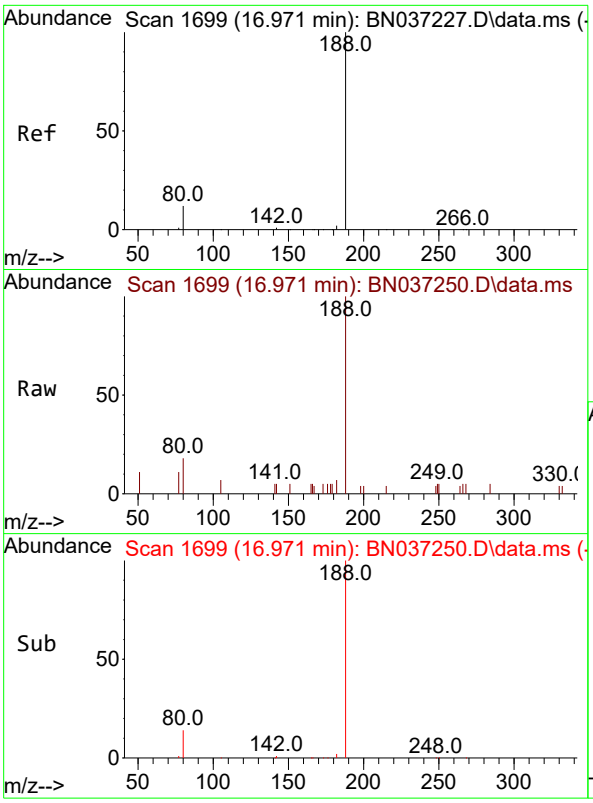


#15
2-Fluorobiphenyl
Concen: 0.279 ng
RT: 12.848 min Scan# 1316
Delta R.T. 0.000 min
Lab File: BN037250.D
Acq: 14 Jun 2025 05:57

Tgt Ion:172 Resp: 1402

Ion	Ratio	Lower	Upper
172	100		
171	40.7	29.8	44.8
170	28.8	21.1	31.7



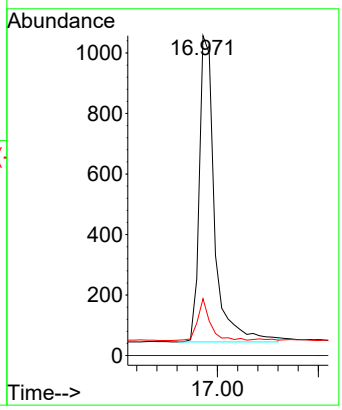


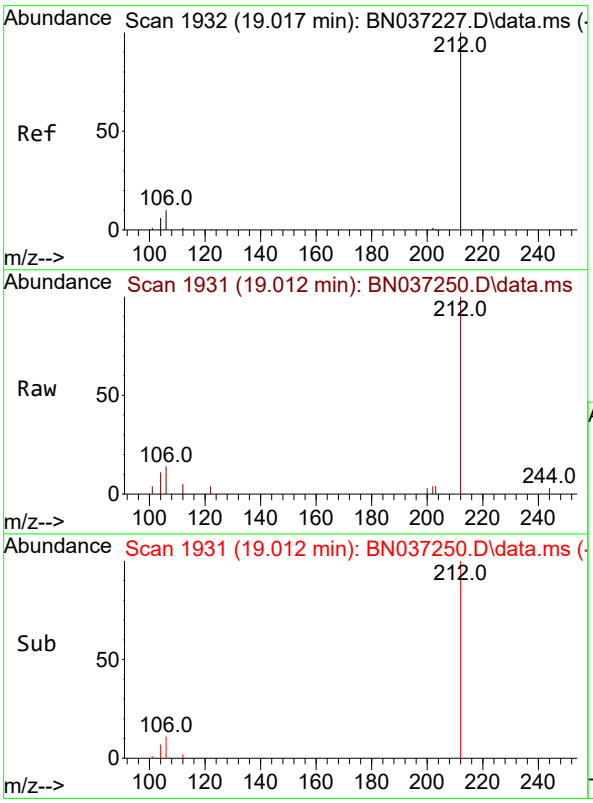
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037250.D
Acq: 14 Jun 2025 05:57

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20250609

Tgt Ion:188 Resp: 2140

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	17.8	12.2	18.4

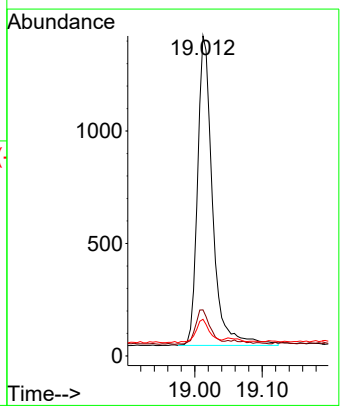


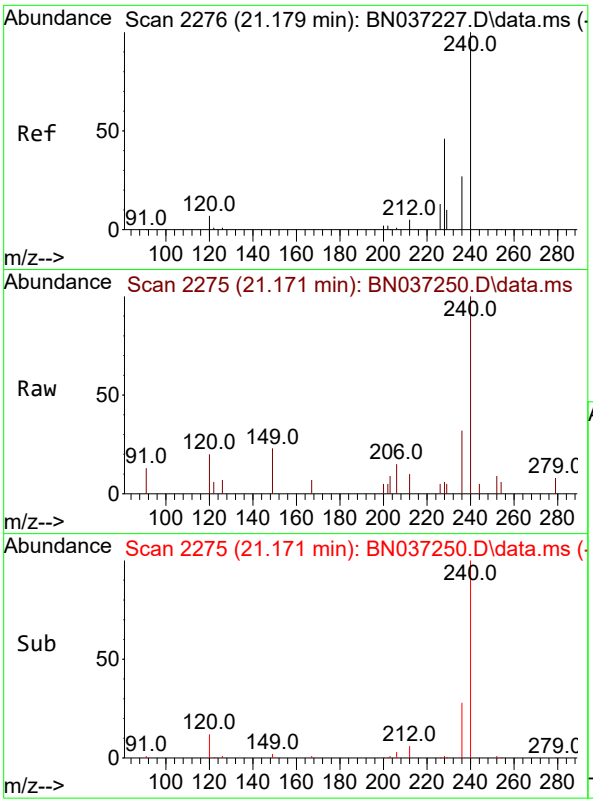


#27
Fluoranthene-d10
Concen: 0.380 ng
RT: 19.012 min Scan# 1931
Delta R.T. -0.005 min
Lab File: BN037250.D
Acq: 14 Jun 2025 05:57

Tgt Ion:212 Resp: 2125

Ion	Ratio	Lower	Upper
212	100		
106	10.9	9.3	13.9
104	7.1	5.7	8.5



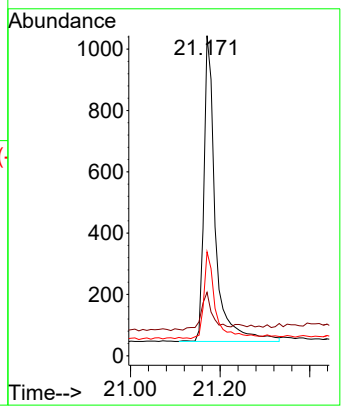


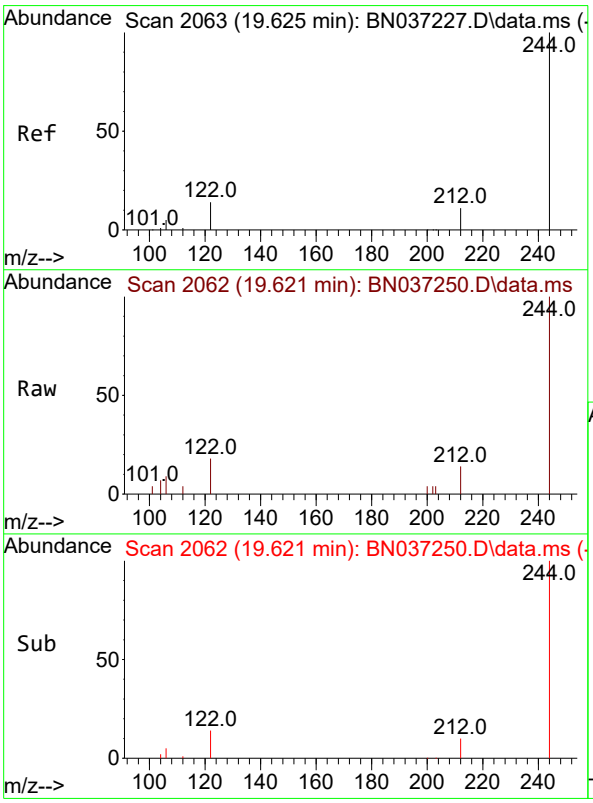
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.171 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037250.D
Acq: 14 Jun 2025 05:57

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20250609

Tgt Ion:240 Resp: 1781

Ion	Ratio	Lower	Upper
240	100		
120	19.8	11.3	16.9#
236	32.5	24.4	36.6

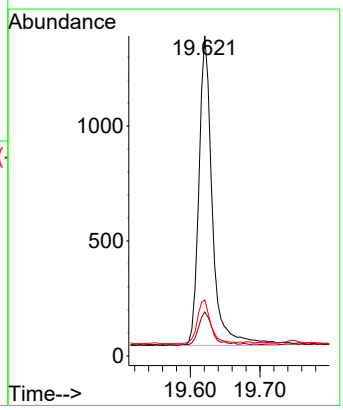


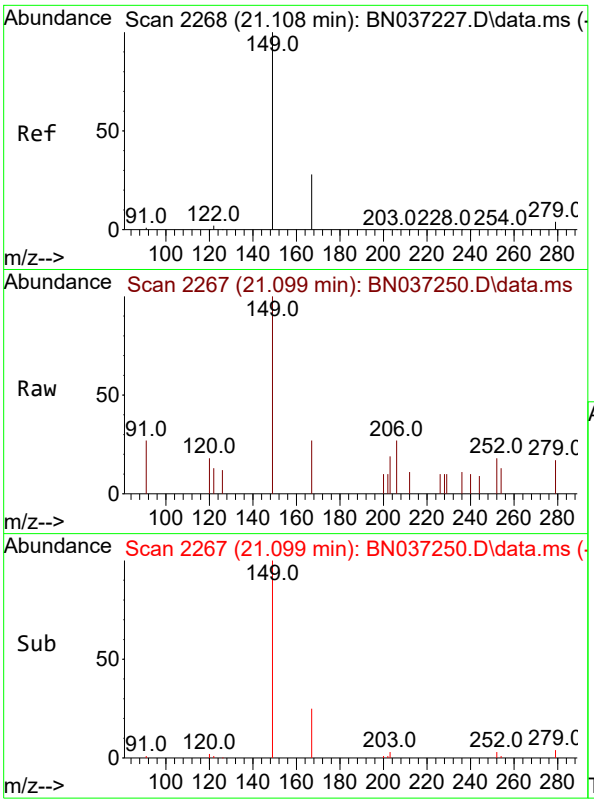


#31
Terphenyl-d14
Concen: 0.451 ng
RT: 19.621 min Scan# 2062
Delta R.T. -0.005 min
Lab File: BN037250.D
Acq: 14 Jun 2025 05:57

Tgt Ion:244 Resp: 1816

Ion	Ratio	Lower	Upper
244	100		
212	13.7	12.2	18.2
122	17.5	14.3	21.5



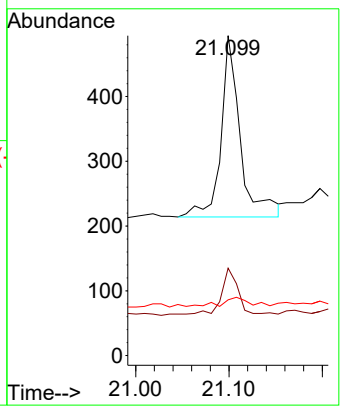


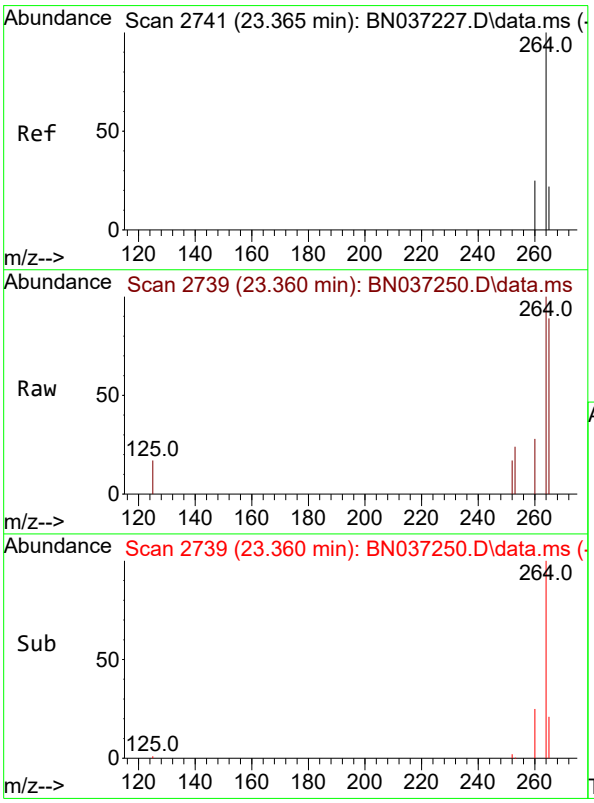
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.090 ng
RT: 21.099 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037250.D
Acq: 14 Jun 2025 05:57

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20250609

Tgt Ion:149 Resp: 401

Ion	Ratio	Lower	Upper
149	100		
167	20.4	21.3	31.9#
279	6.7	3.3	4.9#

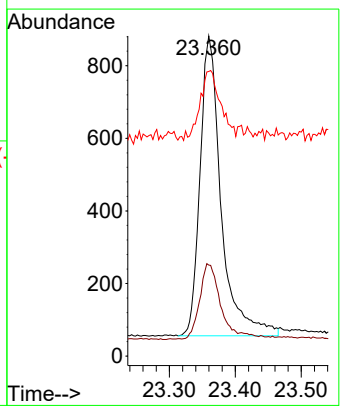




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.360 min Scan# 2739
Delta R.T. -0.006 min
Lab File: BN037250.D
Acq: 14 Jun 2025 05:57

Tgt Ion:264 Resp: 1845

Ion	Ratio	Lower	Upper
264	100		
260	28.5	22.8	34.2
265	88.9	66.4	99.6



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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/09/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/11/25
Client Sample ID:	RW10-MW01D-20250609	SDG No.:	Q2299
Lab Sample ID:	Q2299-08	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037251.D	1	06/13/25 08:03	06/14/25 06:33	PB168458

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.28		30 - 150		69%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.37		30 - 150		91%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.25		55 - 111		62%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.31		53 - 106		76%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.45		58 - 132		113%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	978	7.582				
1146-65-2	Naphthalene-d8	2450	10.362				
15067-26-2	Acenaphthene-d10	1300	14.224				
1517-22-2	Phenanthrene-d10	2260	16.971				
1719-03-5	Chrysene-d12	1680	21.18				
1520-96-3	Perylene-d12	1690	23.36				

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_N\Data\BN061325\
Data File : BN037251.D
Acq On : 14 Jun 2025 06:33
Operator : RC/JU
Sample : Q2299-08
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW10-MW01D-20250609

Quant Time: Jun 16 01:00:39 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration

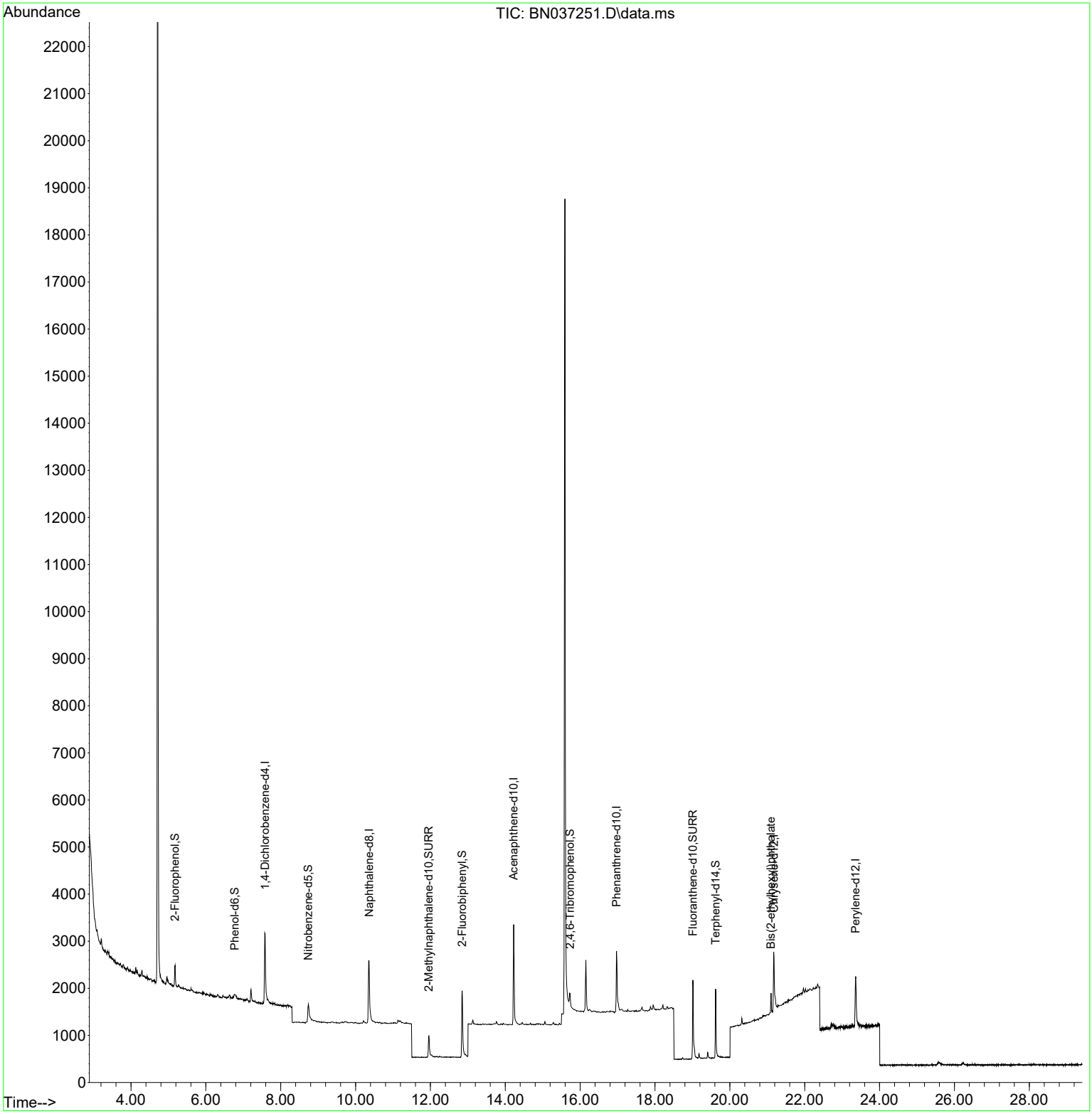
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.582	152	978	0.400	ng	0.00
7) Naphthalene-d8	10.362	136	2447	0.400	ng	# 0.00
13) Acenaphthene-d10	14.224	164	1301	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	2259	0.400	ng	0.00
29) Chrysene-d12	21.180	240	1680	0.400	ng	0.00
35) Perylene-d12	23.360	264	1691	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	348	0.145	ng	0.00
5) Phenol-d6	6.773	99	157	0.062	ng	0.01
8) Nitrobenzene-d5	8.739	82	595	0.246	ng	0.01
11) 2-Methylnaphthalene-d10	11.955	152	913	0.278	ng	0.00
14) 2,4,6-Tribromophenol	15.730	330	185	0.342	ng	0.00
15) 2-Fluorobiphenyl	12.848	172	1669	0.305	ng	0.00
27) Fluoranthene-d10	19.012	212	2160	0.365	ng	0.00
31) Terphenyl-d14	19.621	244	1709	0.450	ng	0.00
Target Compounds						Qvalue
34) Bis(2-ethylhexyl)phtha...	21.099	149	444	0.105	ng	# 96

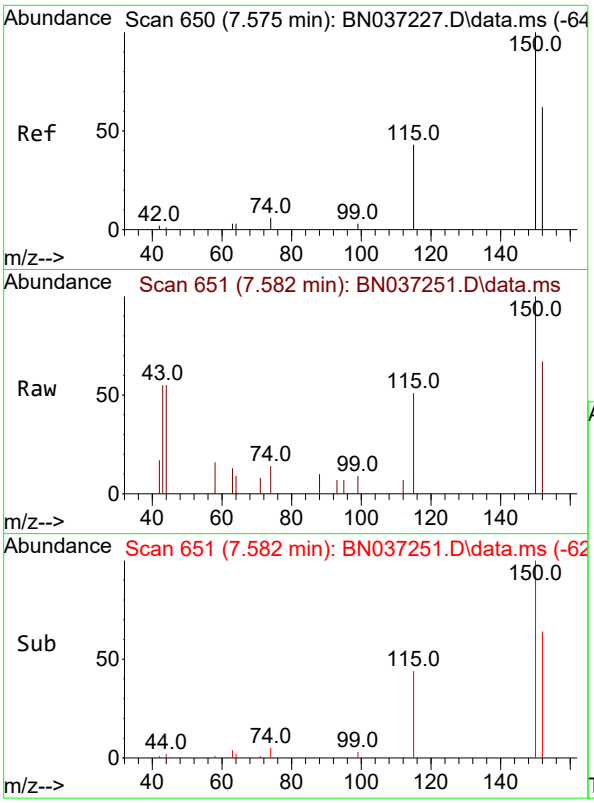
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037251.D
Acq On : 14 Jun 2025 06:33
Operator : RC/JU
Sample : Q2299-08
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW10-MW01D-20250609

Quant Time: Jun 16 01:00:39 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration



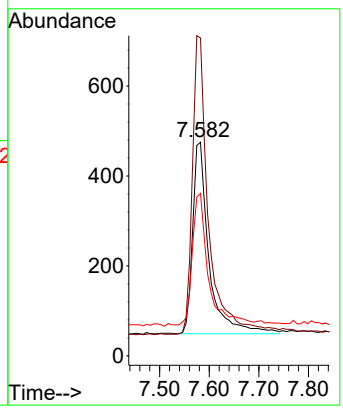


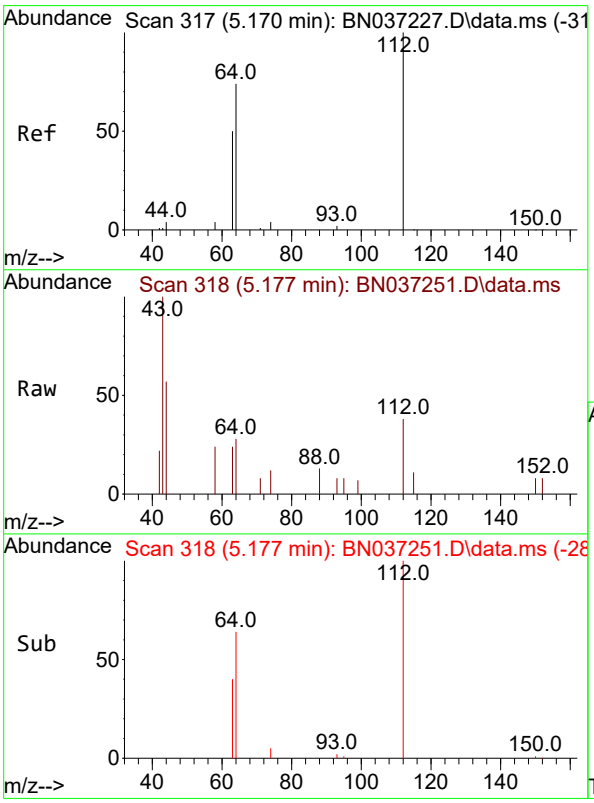
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.582 min Scan# 6
Delta R.T. 0.007 min
Lab File: BN037251.D
Acq: 14 Jun 2025 06:33

Instrument :
BNA_N
ClientSampleId :
RW10-MW01D-20250609

Tgt Ion:152 Resp: 978

Ion	Ratio	Lower	Upper
152	100		
150	148.8	125.2	187.8
115	76.0	58.4	87.6

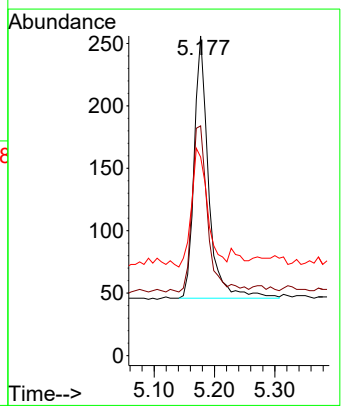


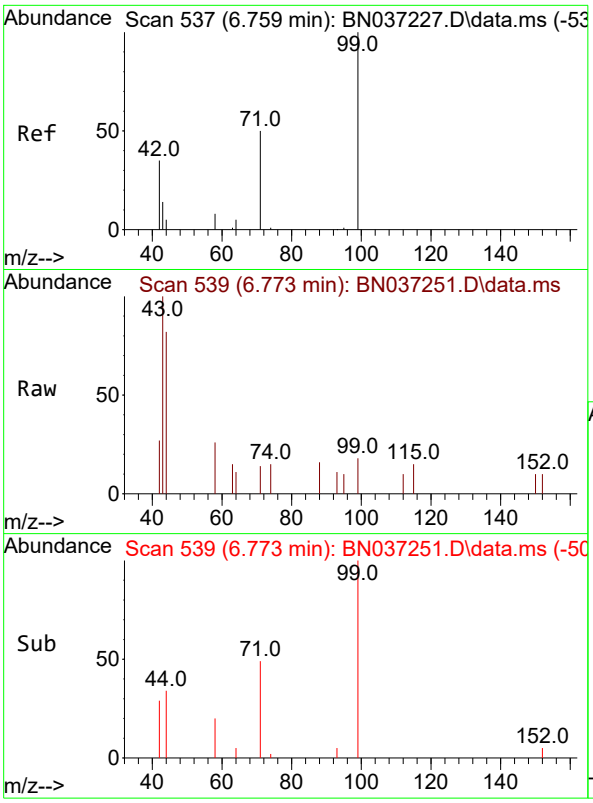


#4
2-Fluorophenol
Concen: 0.145 ng
RT: 5.177 min Scan# 318
Delta R.T. 0.007 min
Lab File: BN037251.D
Acq: 14 Jun 2025 06:33

Tgt Ion:112 Resp: 348

Ion	Ratio	Lower	Upper
112	100		
64	68.4	57.2	85.8
63	49.7	39.8	59.6



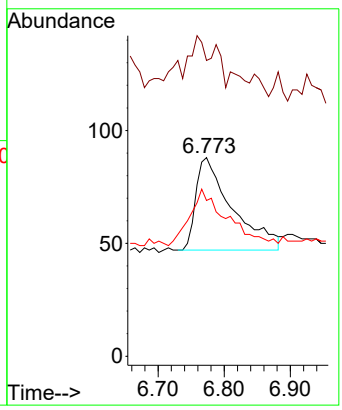


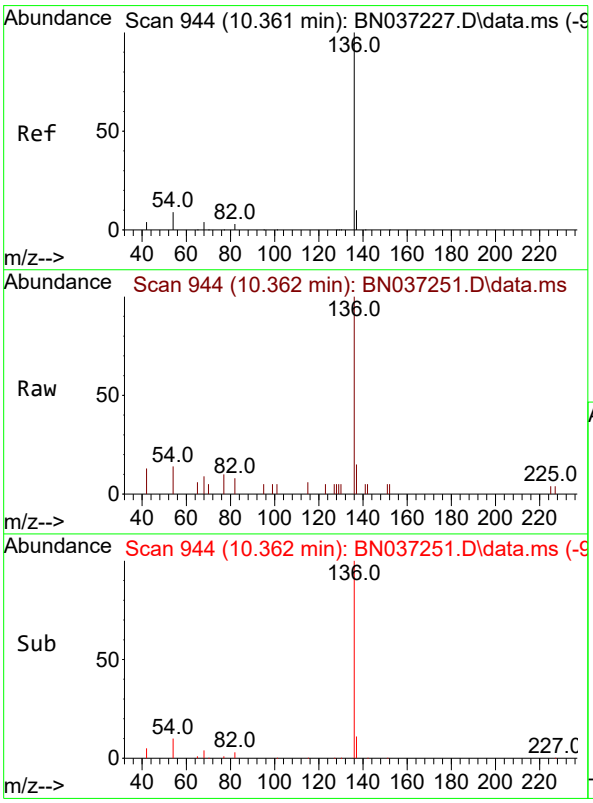
#5
Phenol-d6
Concen: 0.062 ng
RT: 6.773 min Scan# 5
Delta R.T. 0.015 min
Lab File: BN037251.D
Acq: 14 Jun 2025 06:33

Instrument :
BNA_N
ClientSampleId :
RW10-MW01D-20250609

Tgt Ion: 99 Resp: 157

Ion	Ratio	Lower	Upper
99	100		
42	17.2	36.2	54.4#
71	61.1	42.4	63.6

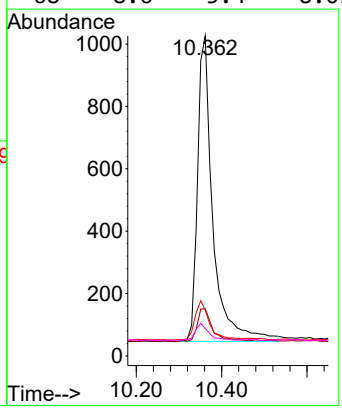


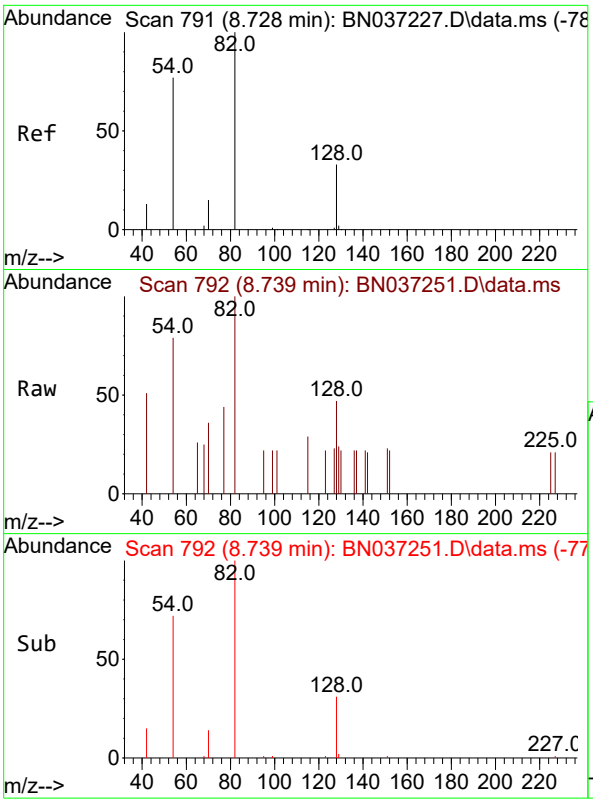


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.362 min Scan# 944
Delta R.T. 0.000 min
Lab File: BN037251.D
Acq: 14 Jun 2025 06:33

Tgt Ion:136 Resp: 2447

Ion	Ratio	Lower	Upper
136	100		
137	14.7	10.6	15.8
54	14.3	9.2	13.8#
68	8.6	5.4	8.0#



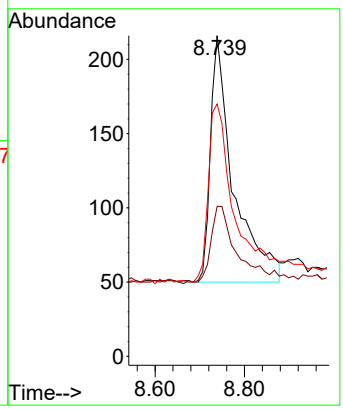


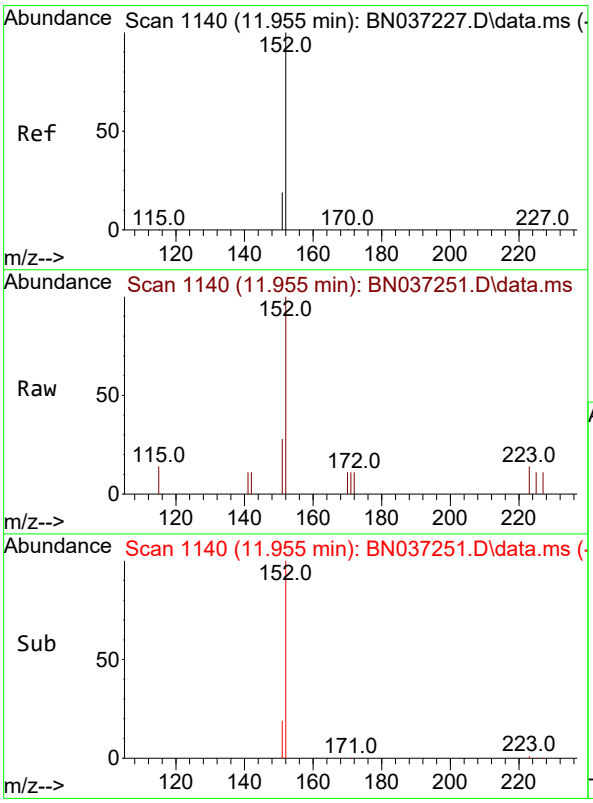
#8
Nitrobenzene-d5
Concen: 0.246 ng
RT: 8.739 min Scan# 7
Delta R.T. 0.011 min
Lab File: BN037251.D
Acq: 14 Jun 2025 06:33

Instrument :
BNA_N
ClientSampleId :
RW10-MW01D-20250609

Tgt Ion: 82 Resp: 595

Ion	Ratio	Lower	Upper
82	100		
128	46.8	31.2	46.8
54	78.7	63.3	94.9

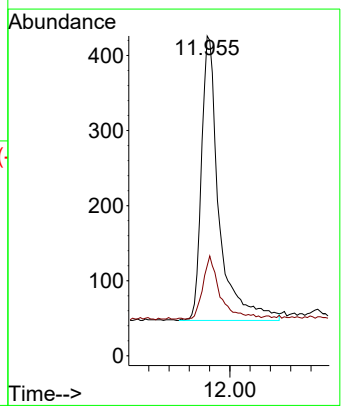


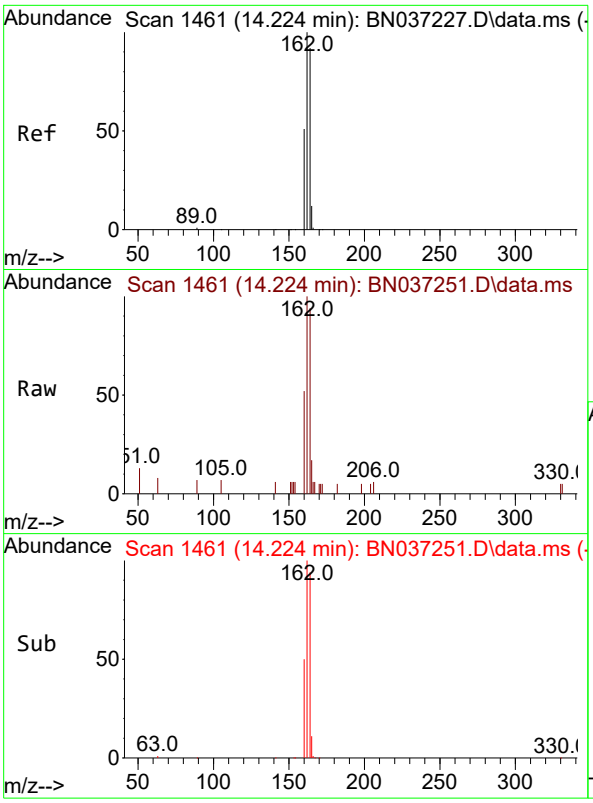


#11
2-Methylnaphthalene-d10
Concen: 0.278 ng
RT: 11.955 min Scan# 1140
Delta R.T. 0.000 min
Lab File: BN037251.D
Acq: 14 Jun 2025 06:33

Tgt Ion:152 Resp: 913

Ion	Ratio	Lower	Upper
152	100		
151	20.7	17.9	26.9



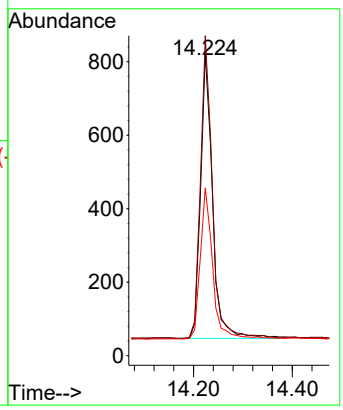


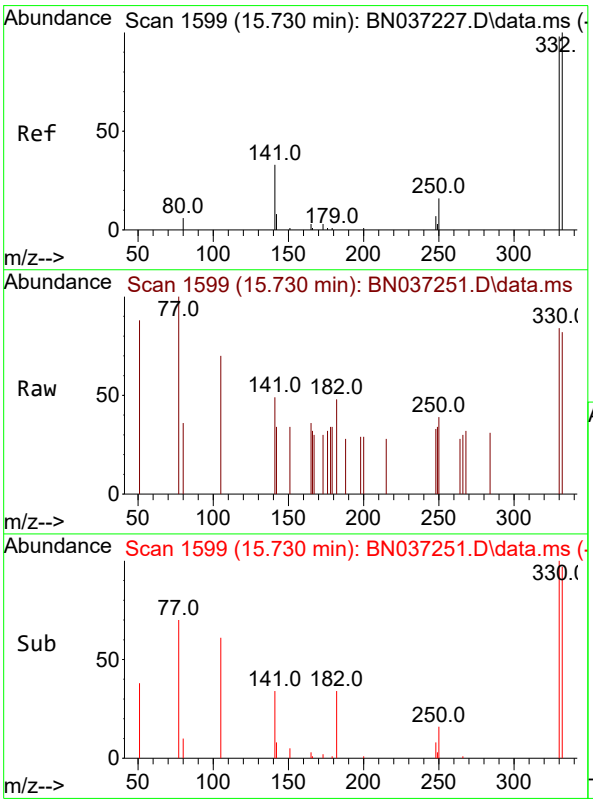
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037251.D
Acq: 14 Jun 2025 06:33

Instrument :
BNA_N
ClientSampleId :
RW10-MW01D-20250609

Tgt Ion:164 Resp: 1301

Ion	Ratio	Lower	Upper
164	100		
162	106.0	86.7	130.1
160	55.6	45.8	68.6

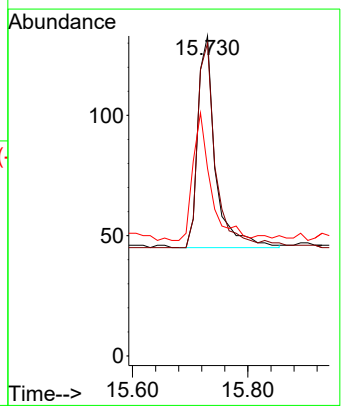


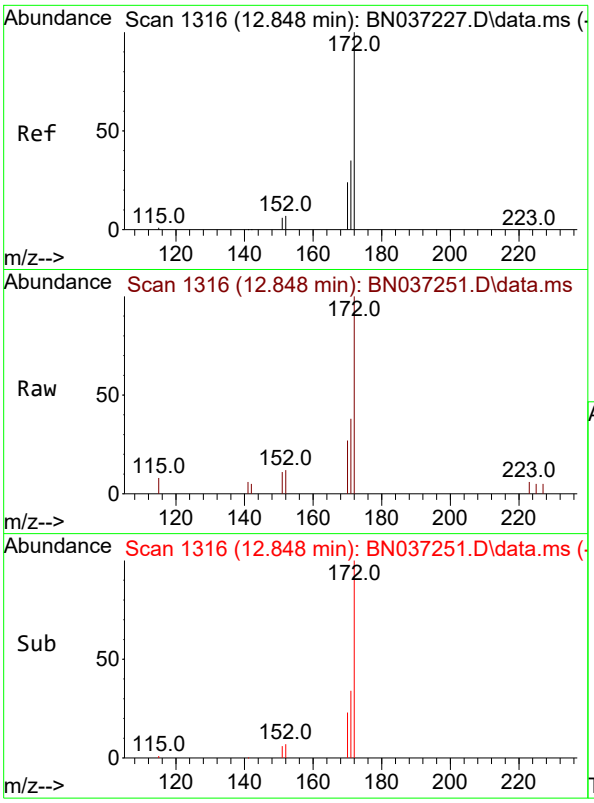


#14
2,4,6-Tribromophenol
Concen: 0.342 ng
RT: 15.730 min Scan# 1599
Delta R.T. 0.000 min
Lab File: BN037251.D
Acq: 14 Jun 2025 06:33

Tgt Ion:330 Resp: 185

Ion	Ratio	Lower	Upper
330	100		
332	101.1	74.9	112.3
141	61.1	45.1	67.7



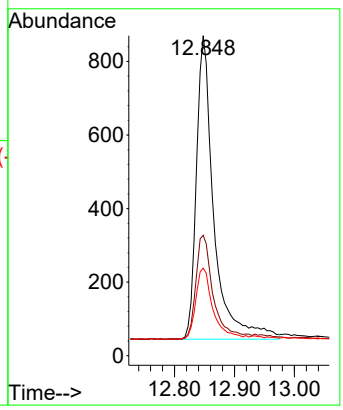


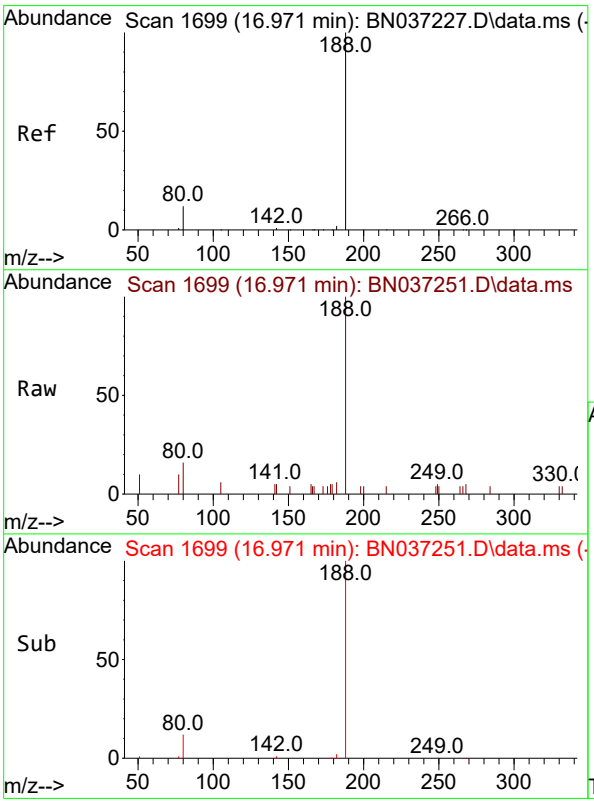
#15
2-Fluorobiphenyl
Concen: 0.305 ng
RT: 12.848 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037251.D
Acq: 14 Jun 2025 06:33

Instrument :
BNA_N
ClientSampleId :
RW10-MW01D-20250609

Tgt Ion:172 Resp: 1669

Ion	Ratio	Lower	Upper
172	100		
171	37.6	29.8	44.8
170	27.4	21.1	31.7

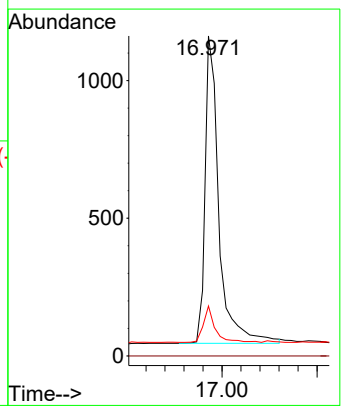


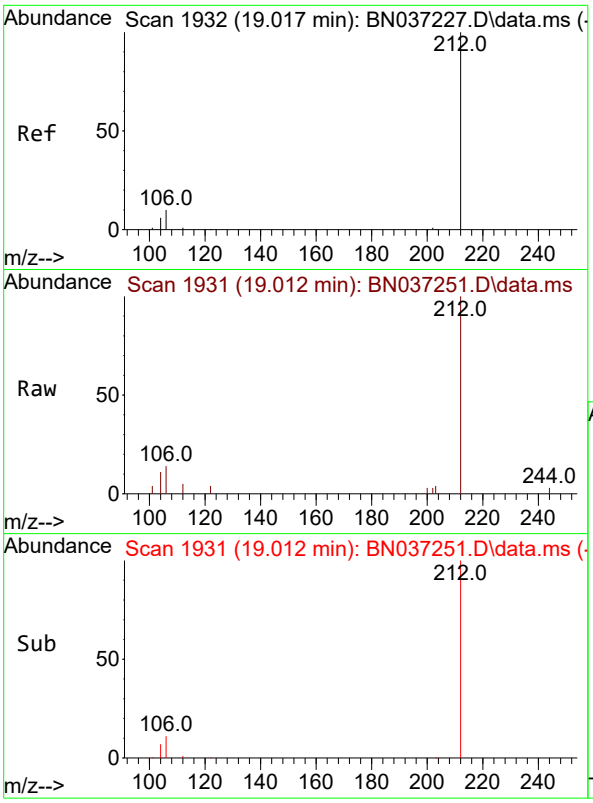


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1699
Delta R.T. 0.000 min
Lab File: BN037251.D
Acq: 14 Jun 2025 06:33

Tgt Ion:188 Resp: 2259

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	15.6	12.2	18.4



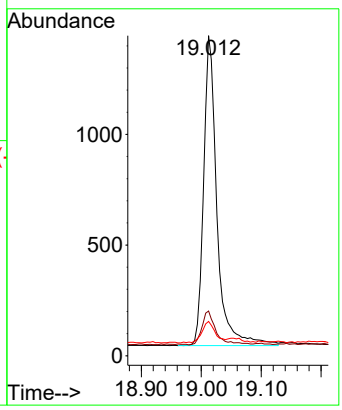


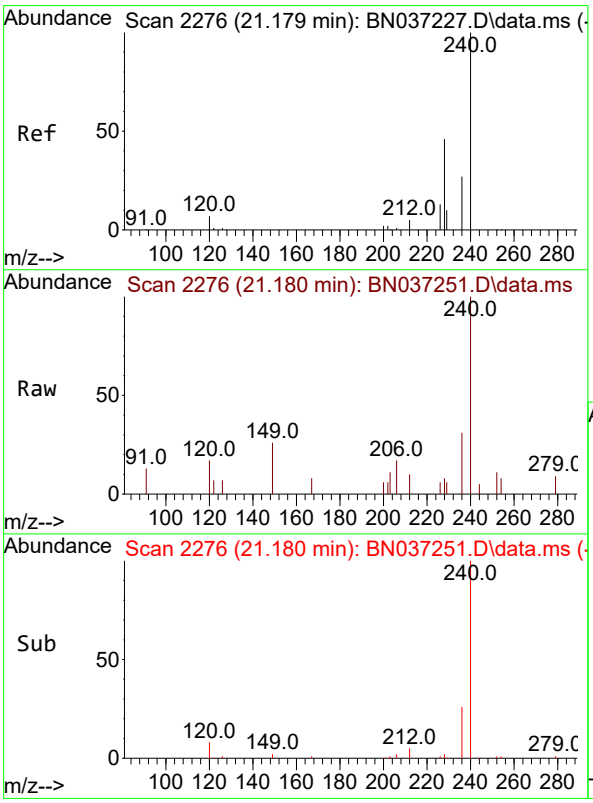
#27
Fluoranthene-d10
Concen: 0.365 ng
RT: 19.012 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN037251.D
Acq: 14 Jun 2025 06:33

Instrument :
BNA_N
ClientSampleId :
RW10-MW01D-20250609

Tgt Ion:212 Resp: 2160

Ion	Ratio	Lower	Upper
212	100		
106	11.6	9.3	13.9
104	6.9	5.7	8.5

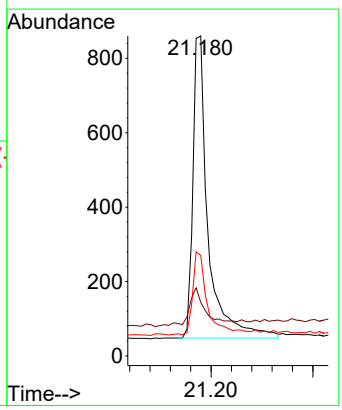


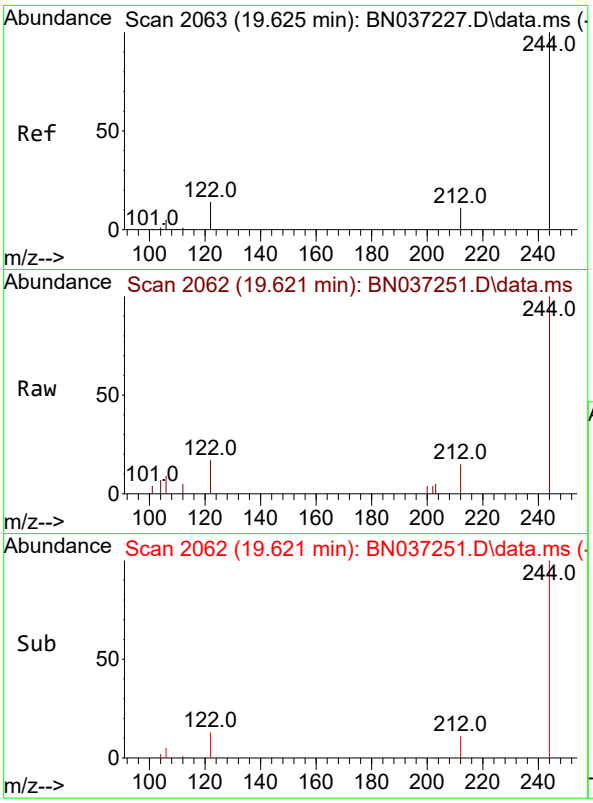


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.180 min Scan# 2276
Delta R.T. 0.000 min
Lab File: BN037251.D
Acq: 14 Jun 2025 06:33

Tgt Ion:240 Resp: 1680

Ion	Ratio	Lower	Upper
240	100		
120	16.7	11.3	16.9
236	31.4	24.4	36.6



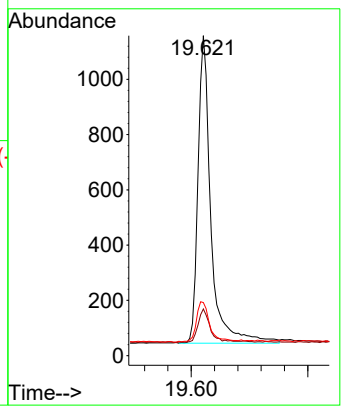


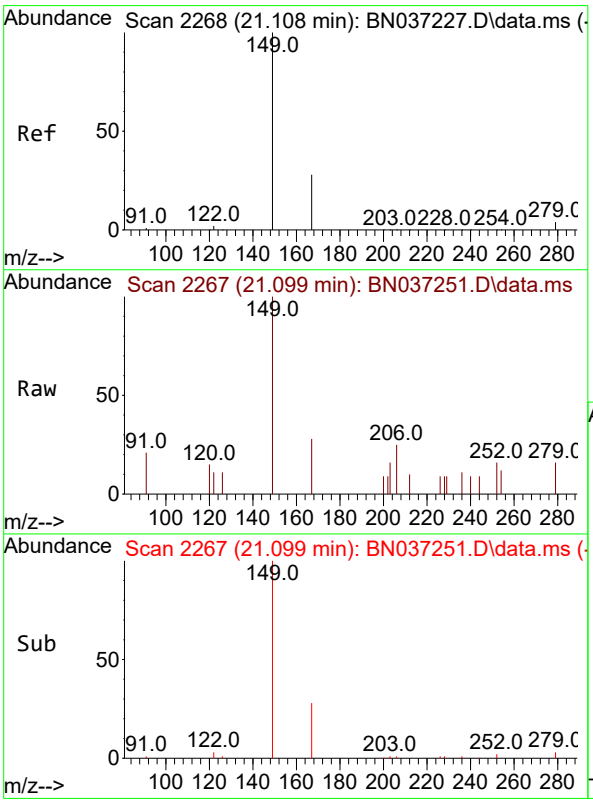
#31
Terphenyl-d14
Concen: 0.450 ng
RT: 19.621 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN037251.D
Acq: 14 Jun 2025 06:33

Instrument :
BNA_N
ClientSampleId :
RW10-MW01D-20250609

Tgt Ion:244 Resp: 1709

Ion	Ratio	Lower	Upper
244	100		
212	14.6	12.2	18.2
122	16.6	14.3	21.5

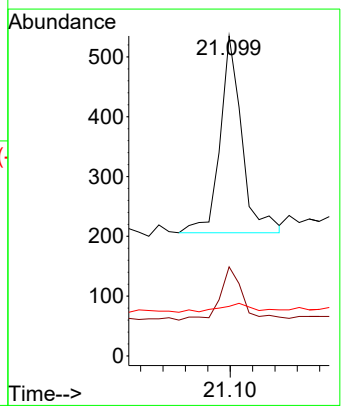


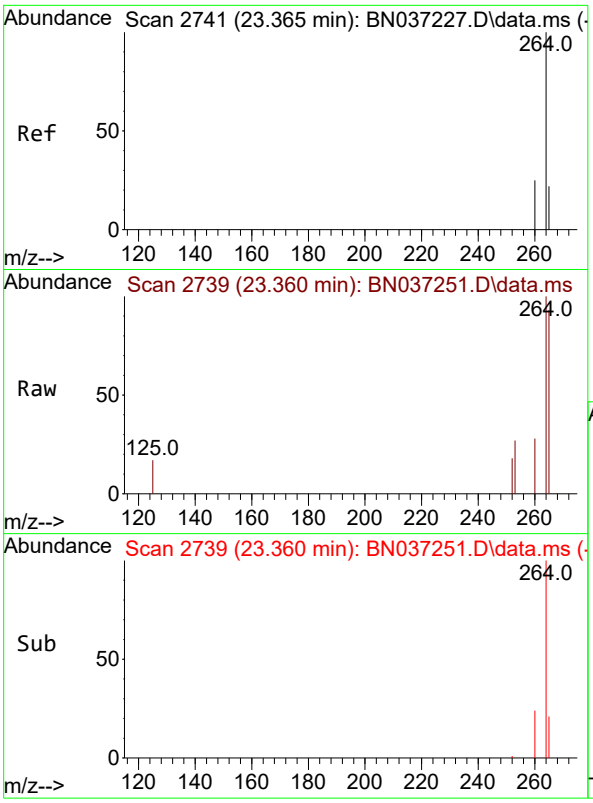


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.105 ng
RT: 21.099 min Scan# 2267
Delta R.T. -0.009 min
Lab File: BN037251.D
Acq: 14 Jun 2025 06:33

Tgt Ion:149 Resp: 444

Ion	Ratio	Lower	Upper
149	100		
167	28.2	21.3	31.9
279	7.7	3.3	4.9#



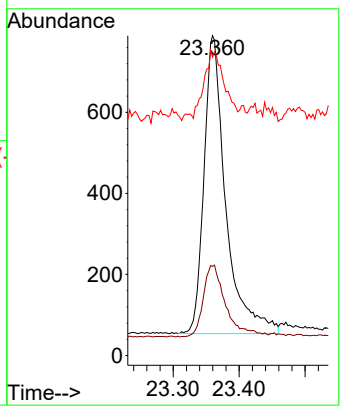


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.360 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN037251.D
Acq: 14 Jun 2025 06:33

Instrument :
BNA_N
ClientSampleId :
RW10-MW01D-20250609

Tgt Ion:264 Resp: 1691

Ion	Ratio	Lower	Upper
264	100		
260	27.9	22.8	34.2
265	93.3	66.4	99.6



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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/09/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/11/25
Client Sample ID:	RW10A-MW01S-20250609	SDG No.:	Q2299
Lab Sample ID:	Q2299-09	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	970 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037252.D	1	06/13/25 08:03	06/14/25 07:09	PB168458

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.15	J	0.070	0.21	0.21	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.32		30 - 150		79%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.35		30 - 150		88%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.29		55 - 111		72%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.34		53 - 106		86%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.54	*	58 - 132		136%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	993	7.575				
1146-65-2	Naphthalene-d8	2390	10.351				
15067-26-2	Acenaphthene-d10	1290	14.224				
1517-22-2	Phenanthrene-d10	2300	16.971				
1719-03-5	Chrysene-d12	1690	21.171				
1520-96-3	Perylene-d12	1690	23.36				

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_N\Data\BN061325\
Data File : BN037252.D
Acq On : 14 Jun 2025 07:09
Operator : RC/JU
Sample : Q2299-09
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW10A-MW01S-20250609

Quant Time: Jun 16 01:00:52 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration

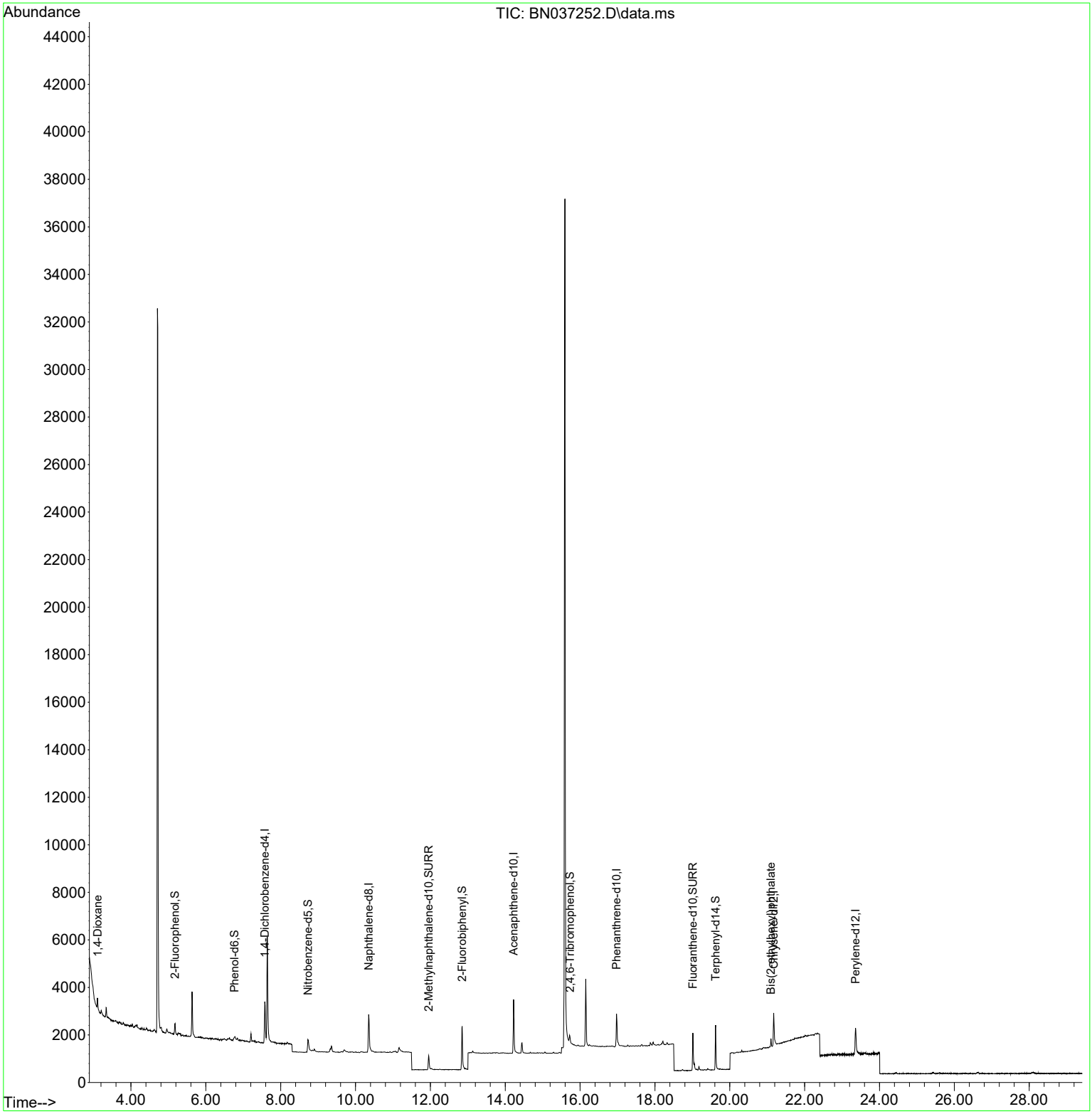
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	993	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	2388	0.400	ng	#-0.01
13) Acenaphthene-d10	14.224	164	1287	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	2304	0.400	ng	0.00
29) Chrysene-d12	21.171	240	1687	0.400	ng	# 0.00
35) Perylene-d12	23.360	264	1690	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	342	0.140	ng	0.00
5) Phenol-d6	6.766	99	170	0.066	ng	0.00
8) Nitrobenzene-d5	8.728	82	683	0.289	ng	0.00
11) 2-Methylnaphthalene-d10	11.955	152	1008	0.315	ng	0.00
14) 2,4,6-Tribromophenol	15.730	330	204	0.382	ng	0.00
15) 2-Fluorobiphenyl	12.848	172	1863	0.344	ng	0.00
27) Fluoranthene-d10	19.012	212	2126	0.353	ng	0.00
31) Terphenyl-d14	19.621	244	2066	0.542	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.112	88	197	0.145	ng	# 10
34) Bis(2-ethylhexyl)phtha...	21.099	149	362	0.085	ng	97

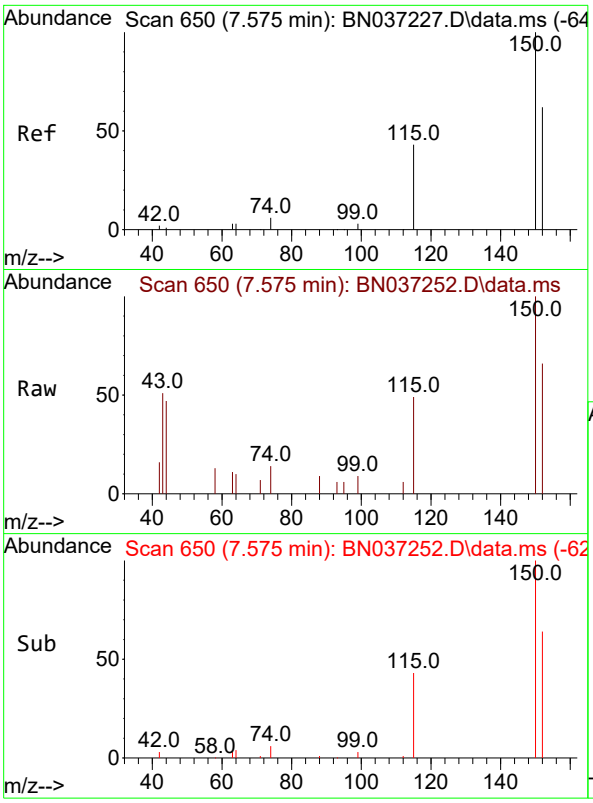
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037252.D
Acq On : 14 Jun 2025 07:09
Operator : RC/JU
Sample : Q2299-09
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW10A-MW01S-20250609

Quant Time: Jun 16 01:00:52 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration



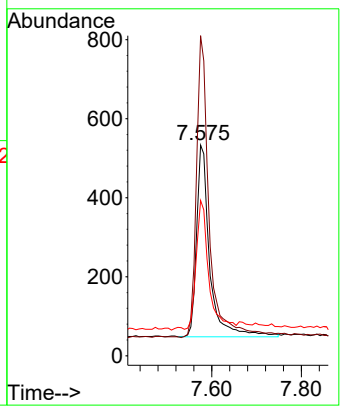


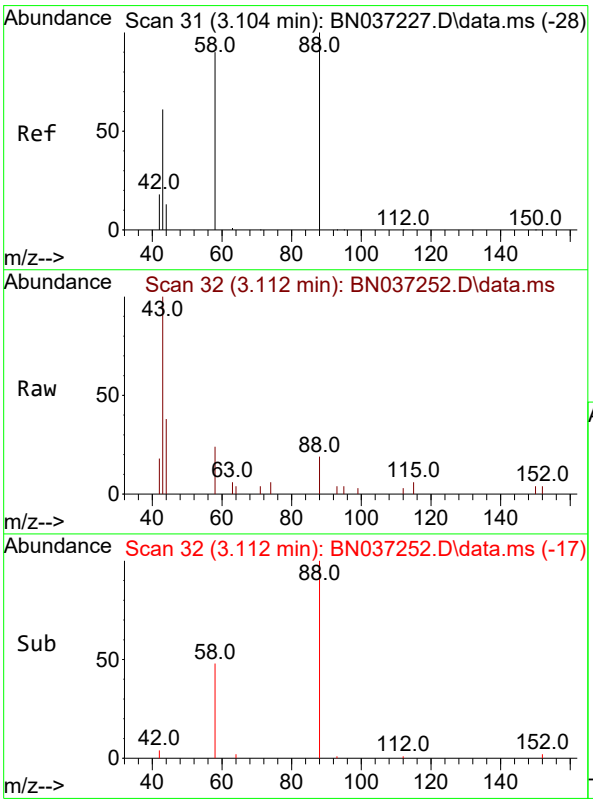
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN037252.D
Acq: 14 Jun 2025 07:09

Instrument :
BNA_N
ClientSampleId :
RW10A-MW01S-20250609

Tgt Ion:152 Resp: 993

Ion	Ratio	Lower	Upper
152	100		
150	152.0	125.2	187.8
115	73.7	58.4	87.6

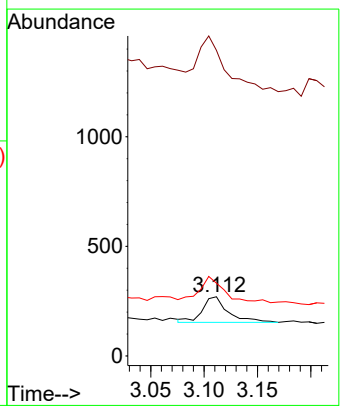


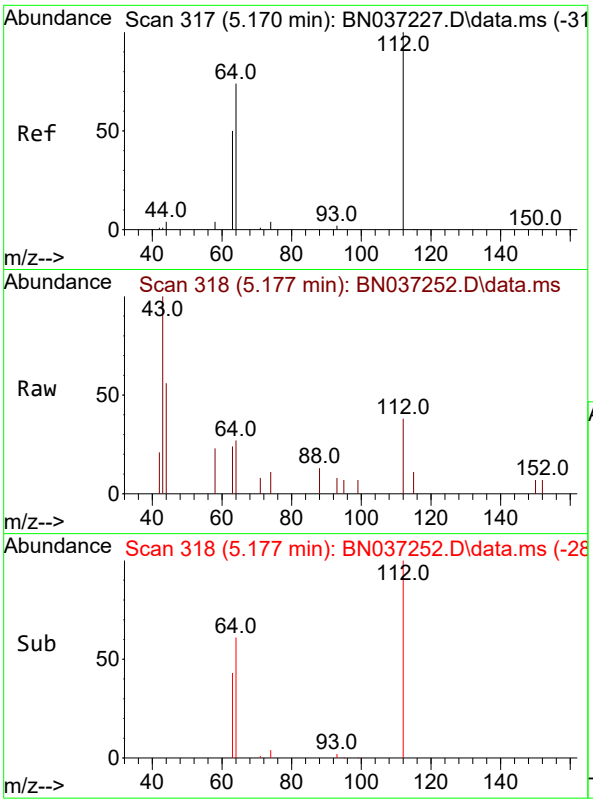


#2
1,4-Dioxane
Concen: 0.145 ng
RT: 3.112 min Scan# 32
Delta R.T. 0.007 min
Lab File: BN037252.D
Acq: 14 Jun 2025 07:09

Tgt Ion: 88 Resp: 197

Ion	Ratio	Lower	Upper
88	100		
43	236.5	52.6	79.0#
58	90.9	73.5	110.3



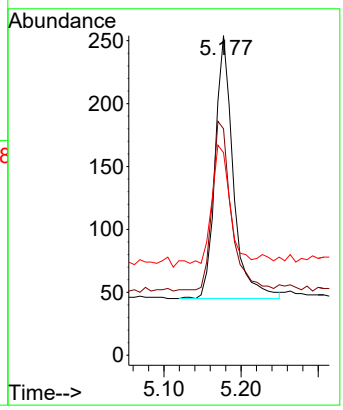


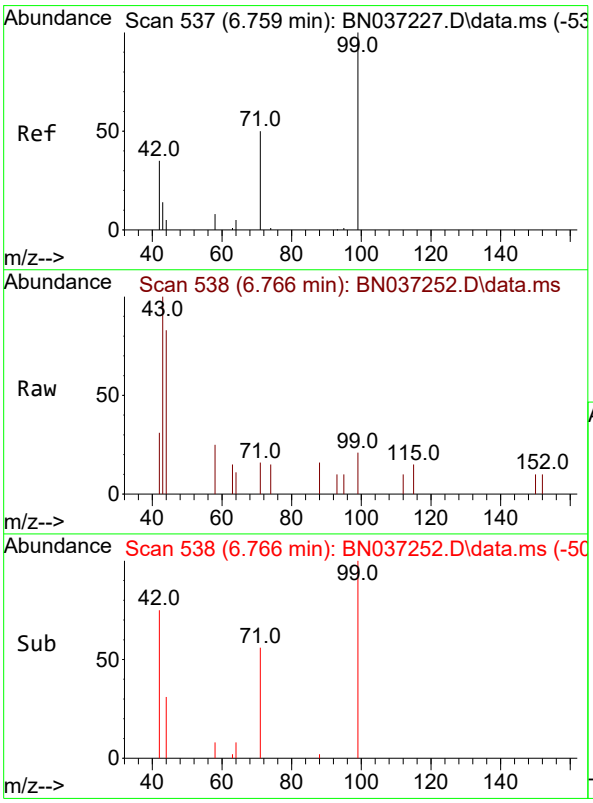
#4
2-Fluorophenol
Concen: 0.140 ng
RT: 5.177 min Scan# 31
Delta R.T. 0.007 min
Lab File: BN037252.D
Acq: 14 Jun 2025 07:09

Instrument :
BNA_N
ClientSampleId :
RW10A-MW01S-20250609

Tgt Ion:112 Resp: 342

Ion	Ratio	Lower	Upper
112	100		
64	66.1	57.2	85.8
63	43.6	39.8	59.6

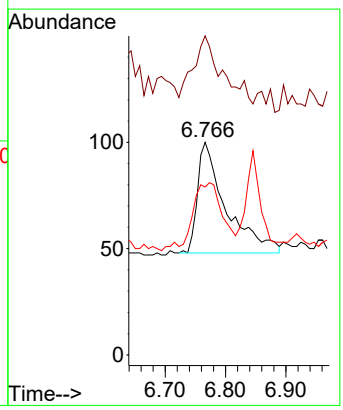


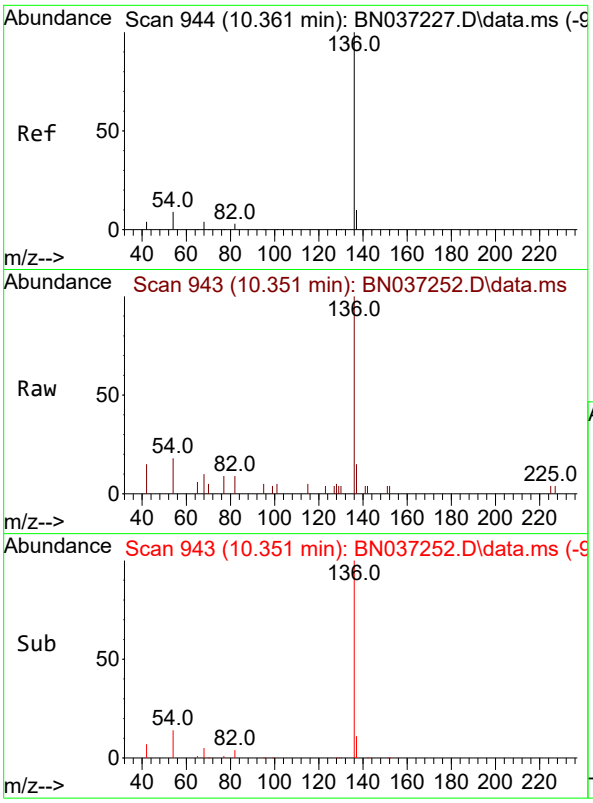


#5
Phenol-d6
Concen: 0.066 ng
RT: 6.766 min Scan# 538
Delta R.T. 0.007 min
Lab File: BN037252.D
Acq: 14 Jun 2025 07:09

Tgt Ion: 99 Resp: 170

Ion	Ratio	Lower	Upper
99	100		
42	61.8	36.2	54.4#
71	65.3	42.4	63.6#



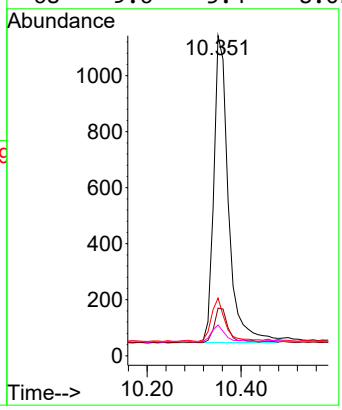


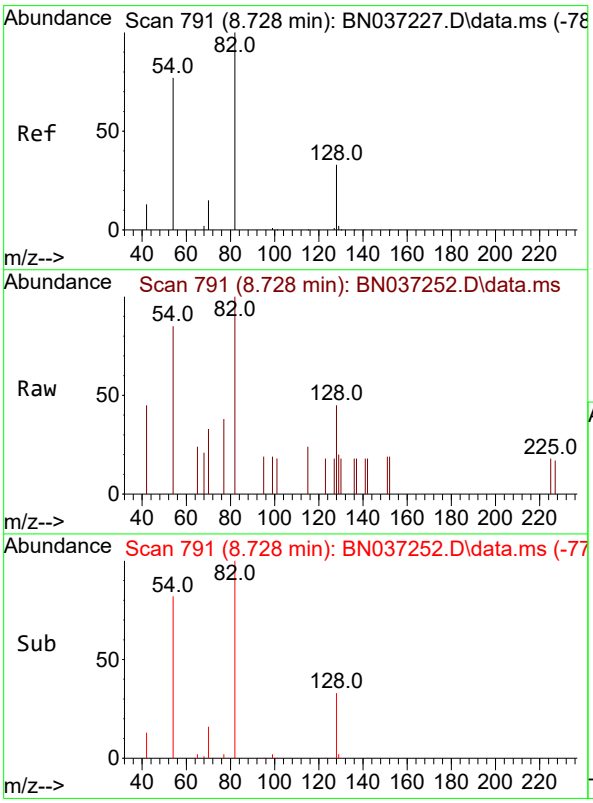
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037252.D
Acq: 14 Jun 2025 07:09

Instrument :
BNA_N
ClientSampleId :
RW10A-MW01S-20250609

Tgt Ion:136 Resp: 2388

Ion	Ratio	Lower	Upper
136	100		
137	14.9	10.6	15.8
54	18.0	9.2	13.8#
68	9.6	5.4	8.0#

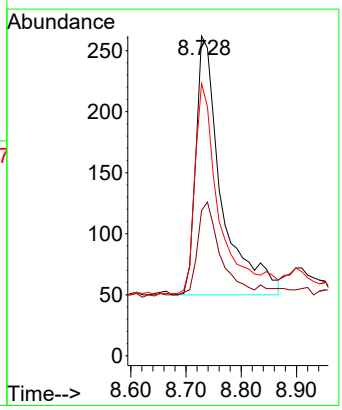


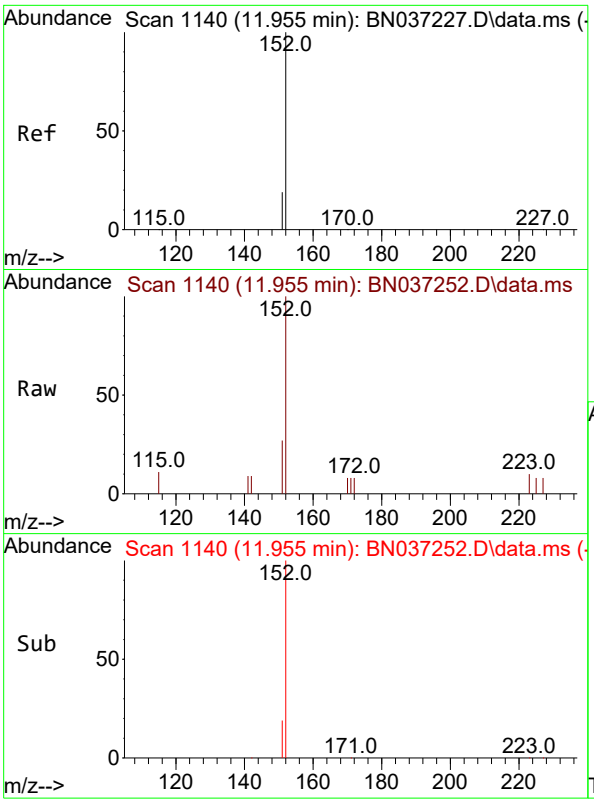


#8
Nitrobenzene-d5
Concen: 0.289 ng
RT: 8.728 min Scan# 791
Delta R.T. 0.000 min
Lab File: BN037252.D
Acq: 14 Jun 2025 07:09

Tgt Ion: 82 Resp: 683

Ion	Ratio	Lower	Upper
82	100		
128	45.4	31.2	46.8
54	85.1	63.3	94.9



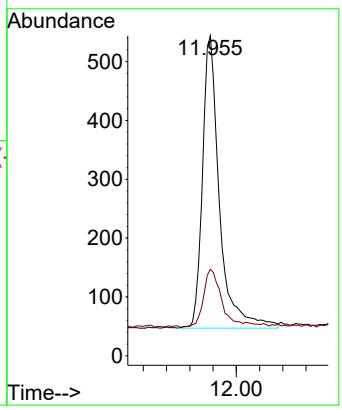


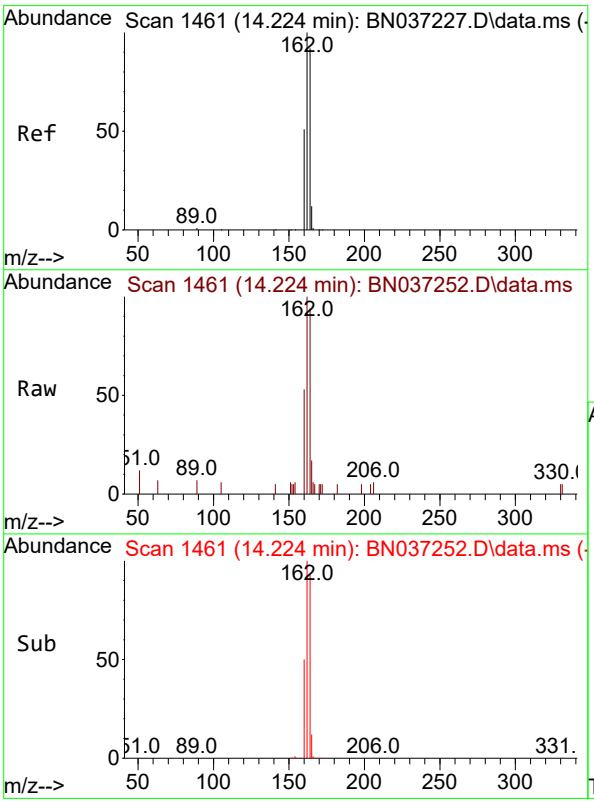
#11
2-Methylnaphthalene-d10
Concen: 0.315 ng
RT: 11.955 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN037252.D
Acq: 14 Jun 2025 07:09

Instrument :
BNA_N
ClientSampleId :
RW10A-MW01S-20250609

Tgt Ion:152 Resp: 1008

Ion	Ratio	Lower	Upper
152	100		
151	22.7	17.9	26.9

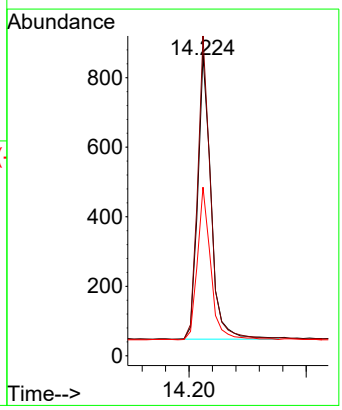


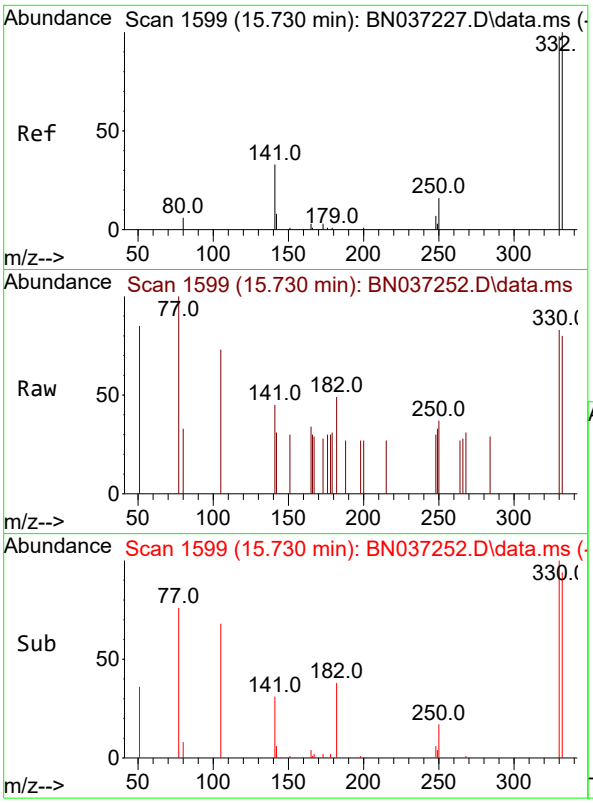


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BN037252.D
Acq: 14 Jun 2025 07:09

Tgt Ion:164 Resp: 1287

Ion	Ratio	Lower	Upper
164	100		
162	106.4	86.7	130.1
160	56.1	45.8	68.6



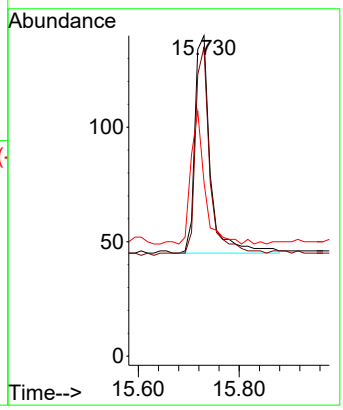


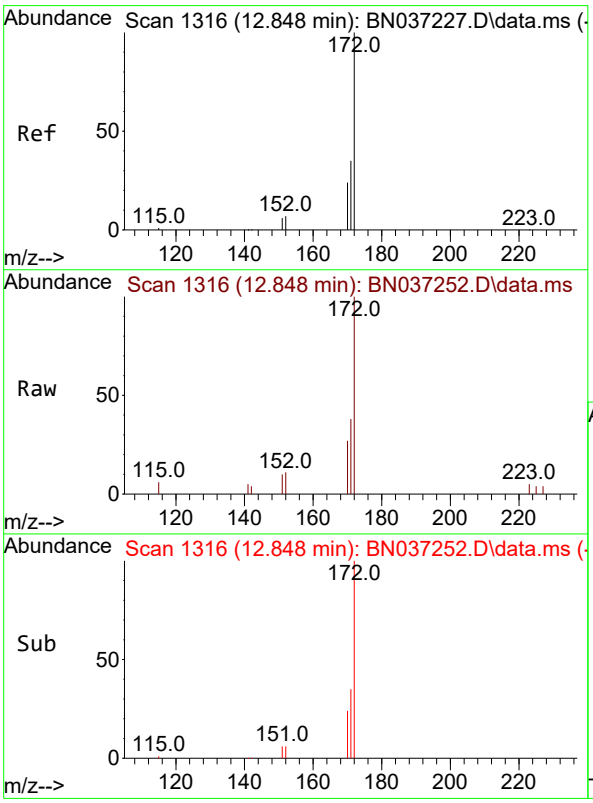
#14
2,4,6-Tribromophenol
Concen: 0.382 ng
RT: 15.730 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037252.D
Acq: 14 Jun 2025 07:09

Instrument :
BNA_N
ClientSampleId :
RW10A-MW01S-20250609

Tgt Ion:330 Resp: 204

Ion	Ratio	Lower	Upper
330	100		
332	86.3	74.9	112.3
141	56.9	45.1	67.7

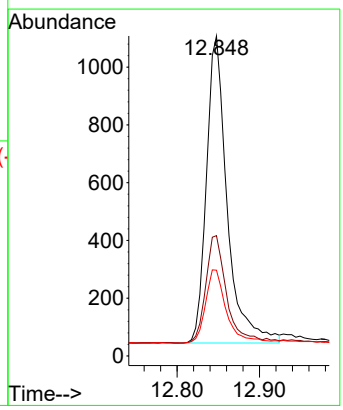


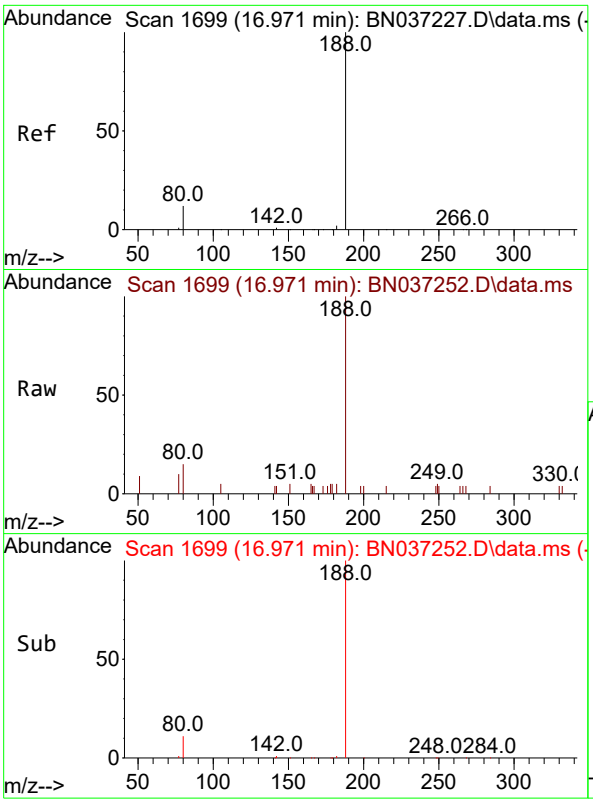


#15
2-Fluorobiphenyl
Concen: 0.344 ng
RT: 12.848 min Scan# 1316
Delta R.T. 0.000 min
Lab File: BN037252.D
Acq: 14 Jun 2025 07:09

Tgt Ion:172 Resp: 1863

Ion	Ratio	Lower	Upper
172	100		
171	37.6	29.8	44.8
170	26.8	21.1	31.7



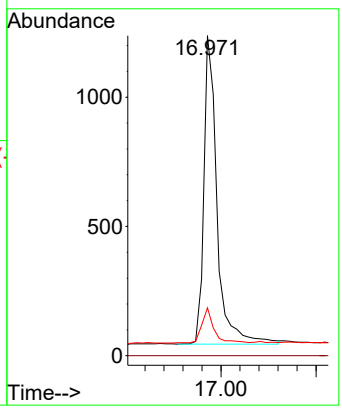


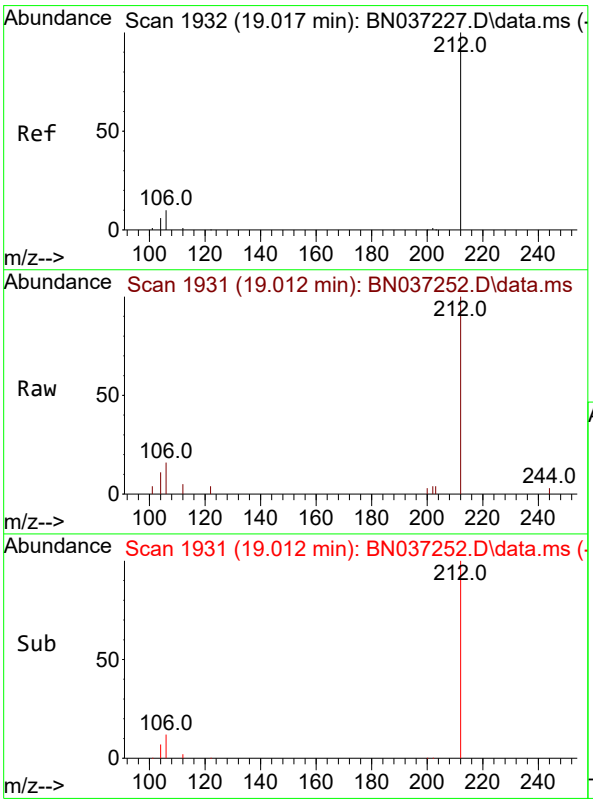
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN037252.D
Acq: 14 Jun 2025 07:09

Instrument :
BNA_N
ClientSampleId :
RW10A-MW01S-20250609

Tgt Ion:188 Resp: 2304

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	14.9	12.2	18.4

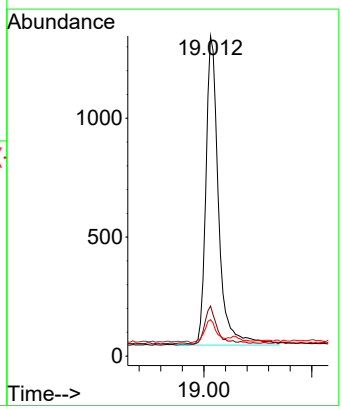


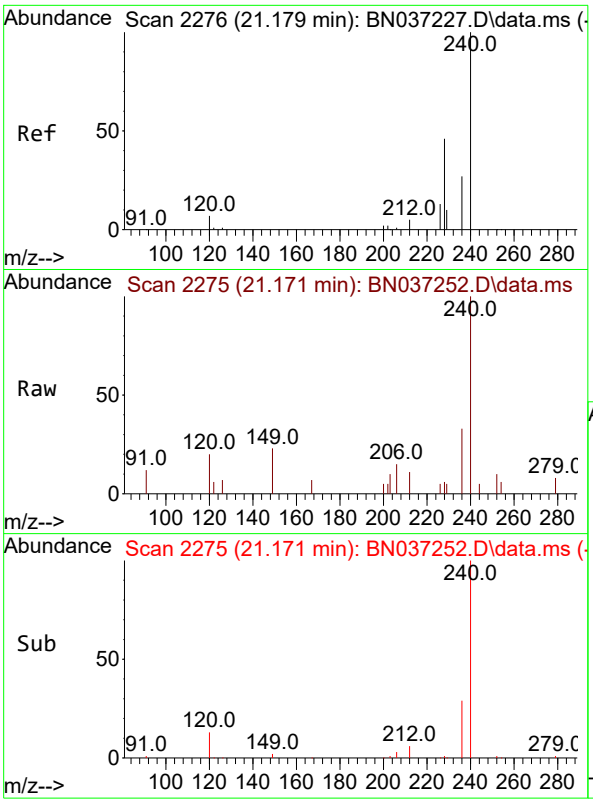


#27
Fluoranthene-d10
Concen: 0.353 ng
RT: 19.012 min Scan# 1931
Delta R.T. -0.005 min
Lab File: BN037252.D
Acq: 14 Jun 2025 07:09

Tgt Ion:212 Resp: 2126

Ion	Ratio	Lower	Upper
212	100		
106	11.5	9.3	13.9
104	7.1	5.7	8.5



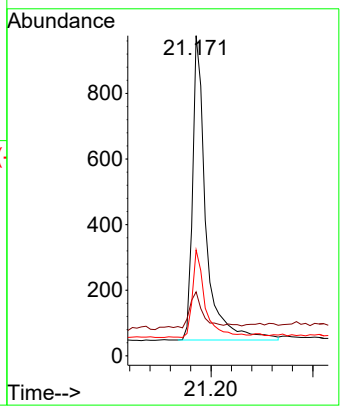


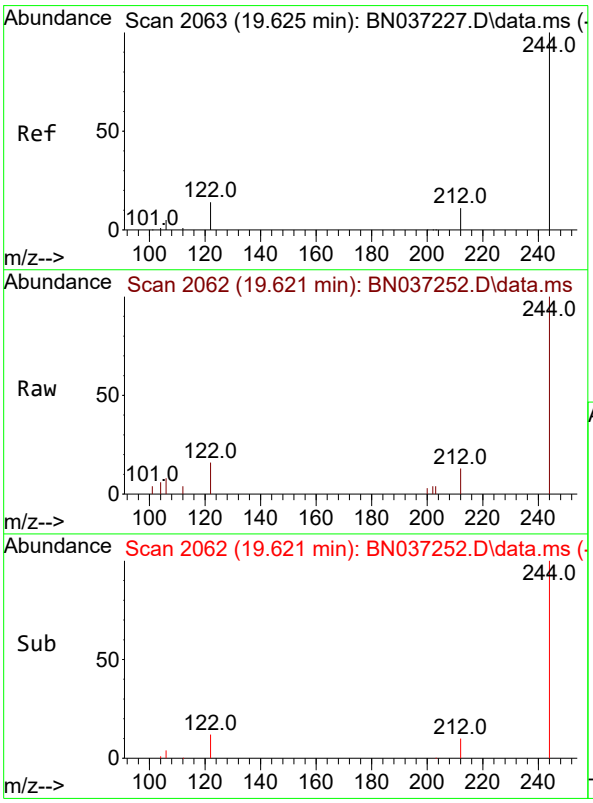
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.171 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037252.D
Acq: 14 Jun 2025 07:09

Instrument :
BNA_N
ClientSampleId :
RW10A-MW01S-20250609

Tgt Ion:240 Resp: 1687

Ion	Ratio	Lower	Upper
240	100		
120	20.0	11.3	16.9#
236	33.1	24.4	36.6

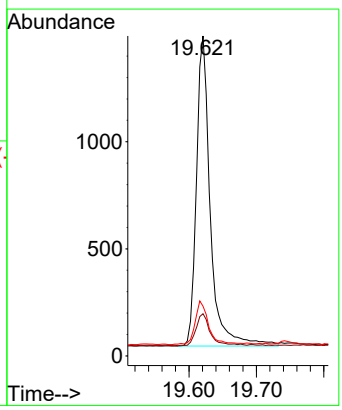


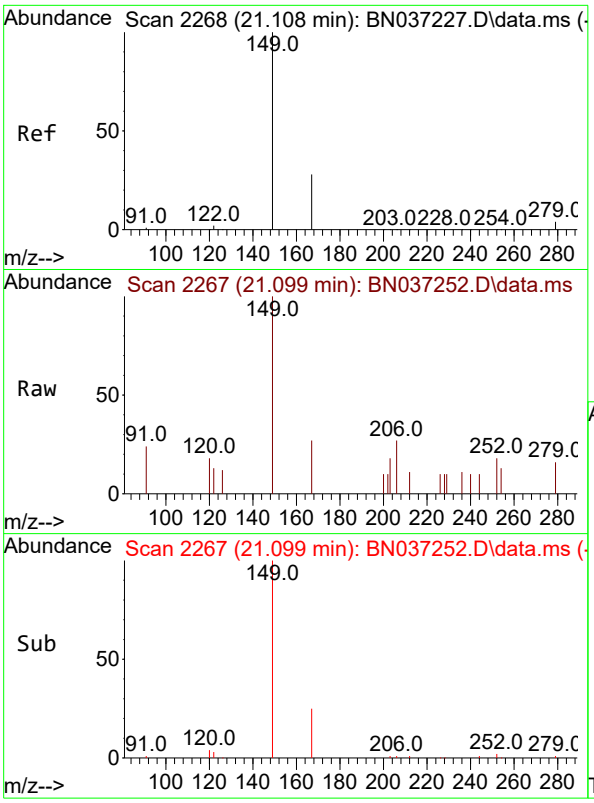


#31
Terphenyl-d14
Concen: 0.542 ng
RT: 19.621 min Scan# 2062
Delta R.T. -0.005 min
Lab File: BN037252.D
Acq: 14 Jun 2025 07:09

Tgt Ion:244 Resp: 2066

Ion	Ratio	Lower	Upper
244	100		
212	13.2	12.2	18.2
122	15.5	14.3	21.5



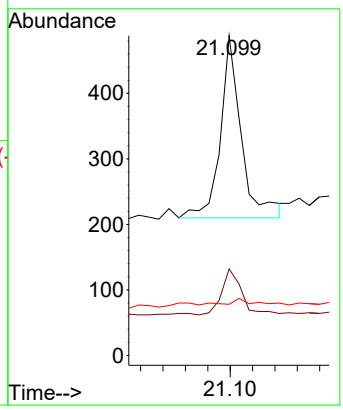


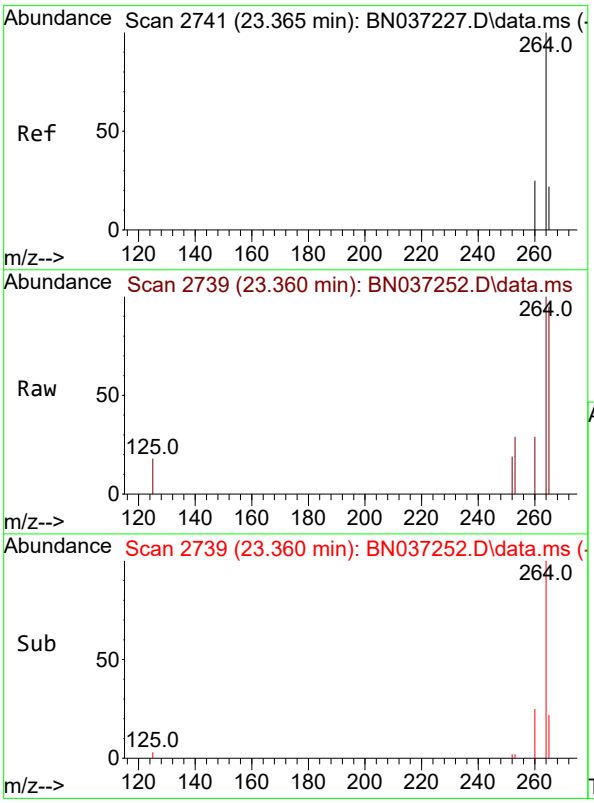
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.085 ng
RT: 21.099 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037252.D
Acq: 14 Jun 2025 07:09

Instrument :
BNA_N
ClientSampleId :
RW10A-MW01S-20250609

Tgt Ion:149 Resp: 362

Ion	Ratio	Lower	Upper
149	100		
167	24.6	21.3	31.9
279	3.9	3.3	4.9

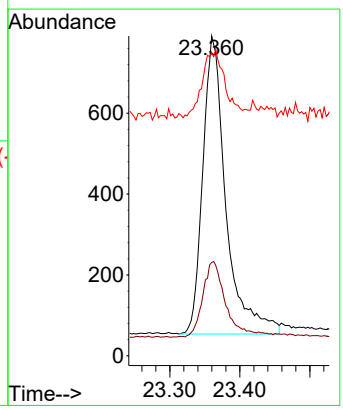




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.360 min Scan# 2739
Delta R.T. -0.006 min
Lab File: BN037252.D
Acq: 14 Jun 2025 07:09

Tgt Ion:264 Resp: 1690

Ion	Ratio	Lower	Upper
264	100		
260	29.2	22.8	34.2
265	94.7	66.4	99.6



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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/09/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/11/25
Client Sample ID:	RW10A-MW01I-20250609	SDG No.:	Q2299
Lab Sample ID:	Q2299-10	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	970 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037253.D	1	06/13/25 08:03	06/14/25 07:46	PB168458

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.21	U	0.070	0.21	0.21	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.33		30 - 150		83%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.37		30 - 150		93%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.32		55 - 111		81%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.36		53 - 106		91%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.47		58 - 132		117%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	968	7.575				
1146-65-2	Naphthalene-d8	2340	10.362				
15067-26-2	Acenaphthene-d10	1250	14.224				
1517-22-2	Phenanthrene-d10	2100	16.971				
1719-03-5	Chrysene-d12	1600	21.18				
1520-96-3	Perylene-d12	1650	23.363				

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_N\Data\BN061325\
Data File : BN037253.D
Acq On : 14 Jun 2025 07:46
Operator : RC/JU
Sample : Q2299-10
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW10A-MW01I-20250609

Quant Time: Jun 16 01:01:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration

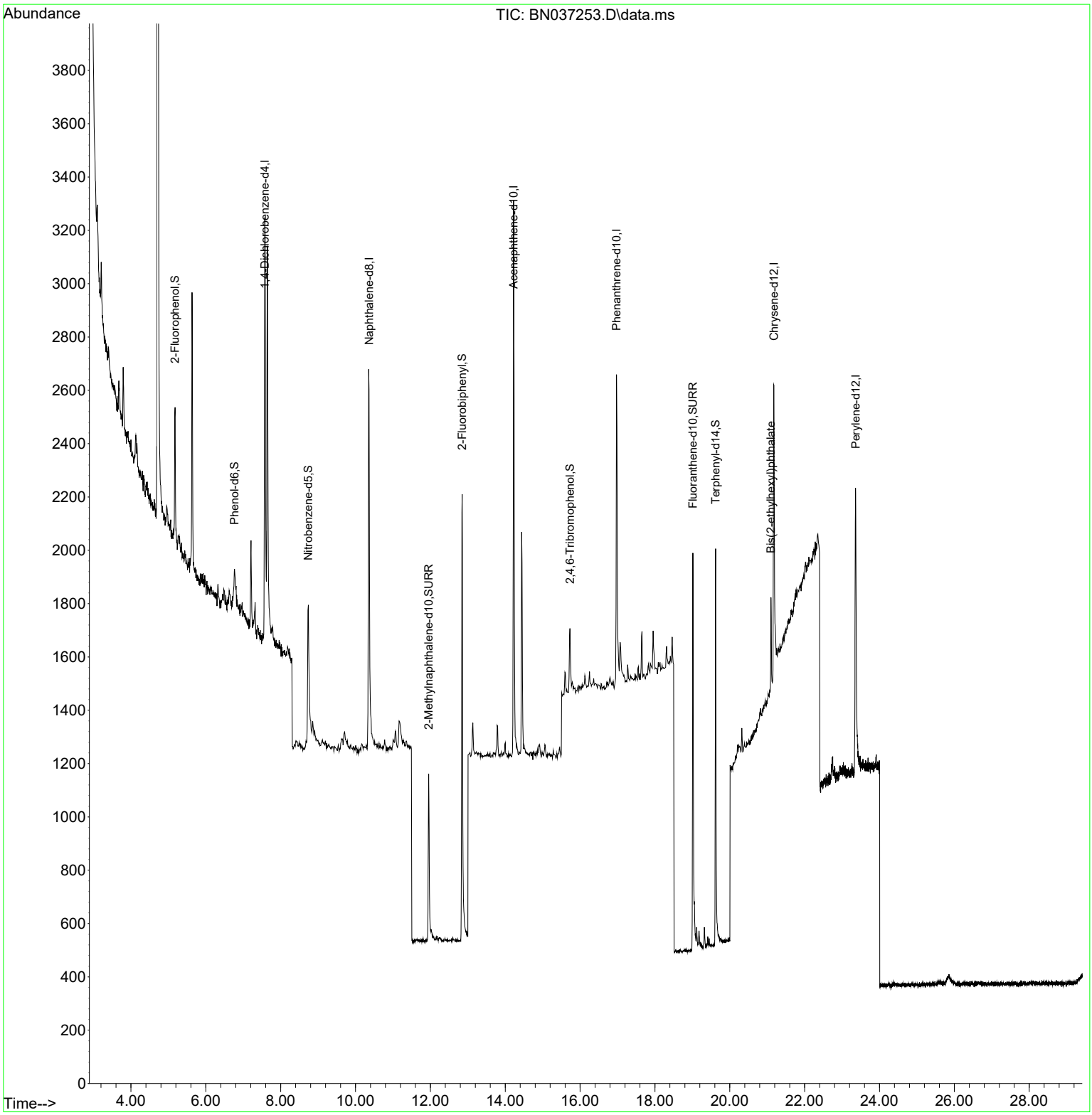
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	968	0.400	ng	0.00
7) Naphthalene-d8	10.362	136	2339	0.400	ng	# 0.00
13) Acenaphthene-d10	14.224	164	1252	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	2096	0.400	ng	0.00
29) Chrysene-d12	21.180	240	1604	0.400	ng	# 0.00
35) Perylene-d12	23.363	264	1645	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	381	0.160	ng	0.00
5) Phenol-d6	6.766	99	175	0.070	ng	0.00
8) Nitrobenzene-d5	8.739	82	747	0.323	ng	0.01
11) 2-Methylnaphthalene-d10	11.955	152	1044	0.333	ng	0.00
14) 2,4,6-Tribromophenol	15.730	330	185	0.356	ng	0.00
15) 2-Fluorobiphenyl	12.848	172	1914	0.364	ng	0.00
27) Fluoranthene-d10	19.012	212	2031	0.370	ng	0.00
31) Terphenyl-d14	19.621	244	1700	0.469	ng	0.00
Target Compounds						Qvalue
34) Bis(2-ethylhexyl)phtha...	21.099	149	359	0.089	ng	# 97

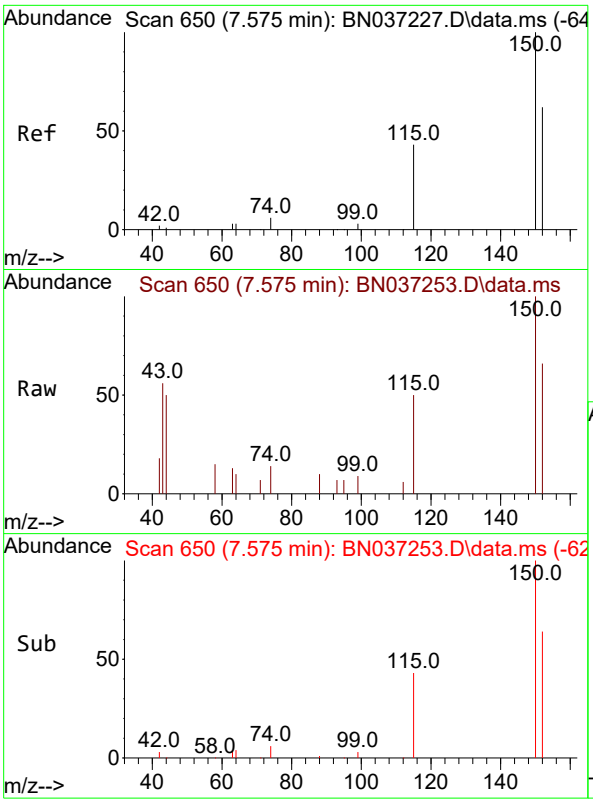
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037253.D
Acq On : 14 Jun 2025 07:46
Operator : RC/JU
Sample : Q2299-10
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW10A-MW01I-20250609

Quant Time: Jun 16 01:01:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration



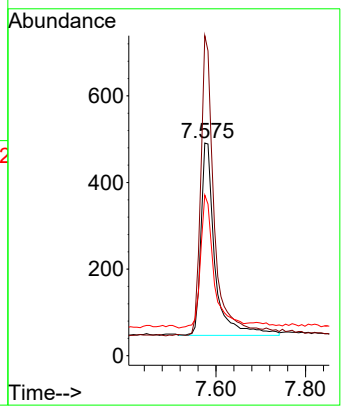


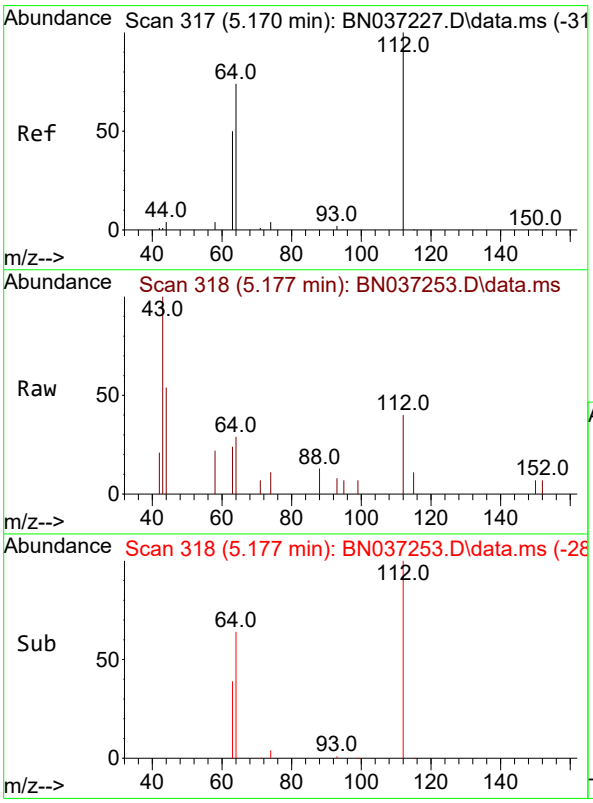
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN037253.D
Acq: 14 Jun 2025 07:46

Instrument :
BNA_N
ClientSampleId :
RW10A-MW01I-20250609

Tgt Ion:152 Resp: 968

Ion	Ratio	Lower	Upper
152	100		
150	150.5	125.2	187.8
115	75.6	58.4	87.6

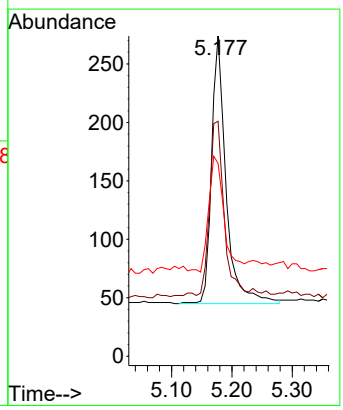


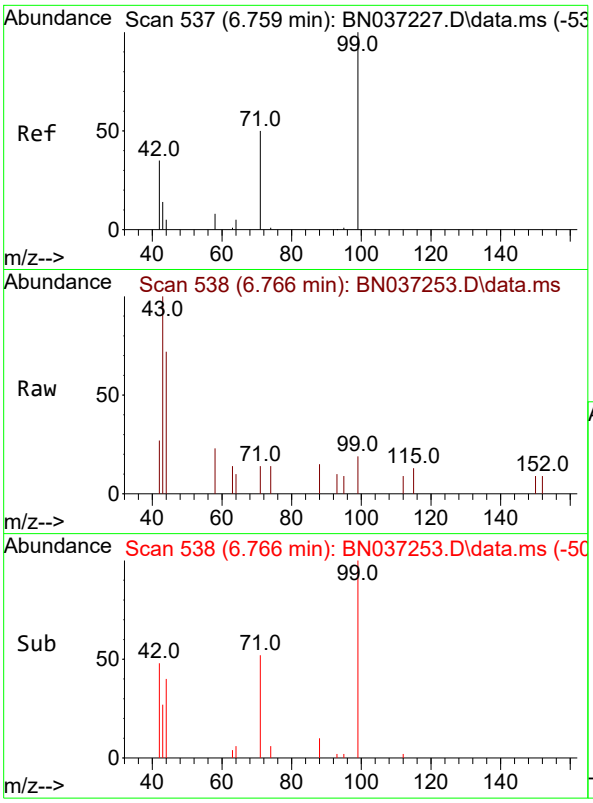


#4
2-Fluorophenol
Concen: 0.160 ng
RT: 5.177 min Scan# 318
Delta R.T. 0.007 min
Lab File: BN037253.D
Acq: 14 Jun 2025 07:46

Tgt Ion:112 Resp: 381

Ion	Ratio	Lower	Upper
112	100		
64	66.9	57.2	85.8
63	43.0	39.8	59.6



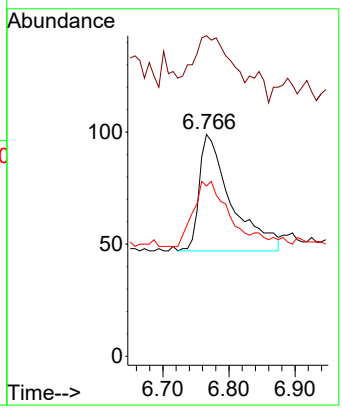


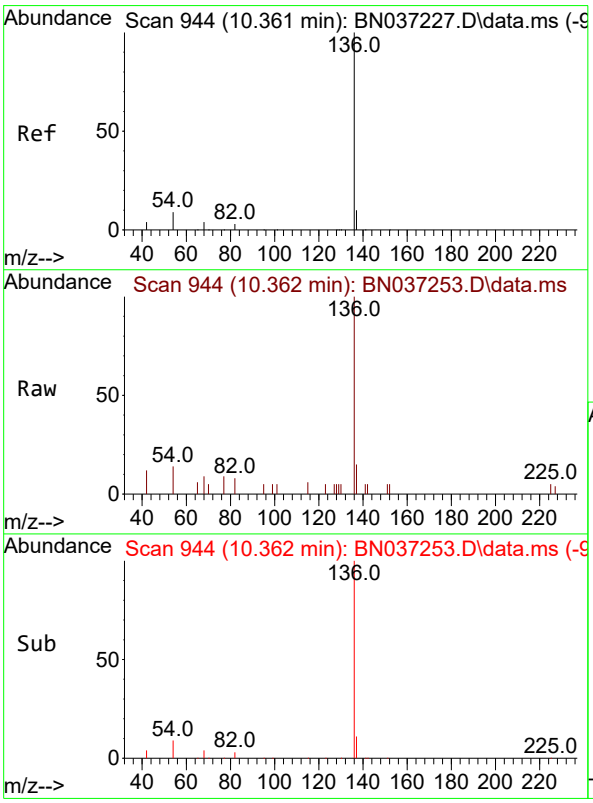
#5
Phenol-d6
Concen: 0.070 ng
RT: 6.766 min Scan# 5
Delta R.T. 0.007 min
Lab File: BN037253.D
Acq: 14 Jun 2025 07:46

Instrument :
BNA_N
ClientSampleId :
RW10A-MW01I-20250609

Tgt Ion: 99 Resp: 175

Ion	Ratio	Lower	Upper
99	100		
42	43.4	36.2	54.4
71	58.9	42.4	63.6

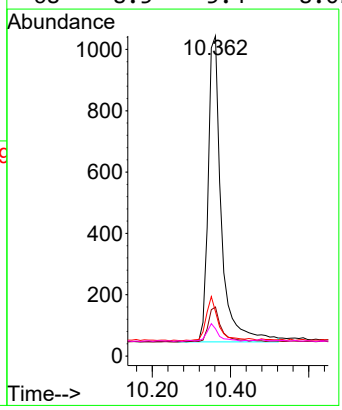


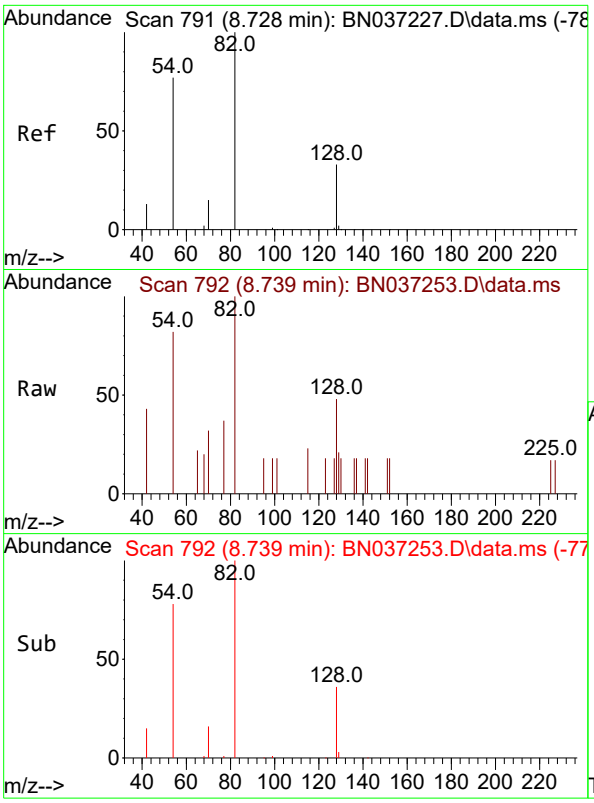


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.362 min Scan# 944
Delta R.T. 0.000 min
Lab File: BN037253.D
Acq: 14 Jun 2025 07:46

Tgt Ion:136 Resp: 2339

Ion	Ratio	Lower	Upper
136	100		
137	15.3	10.6	15.8
54	13.9	9.2	13.8#
68	8.5	5.4	8.0#



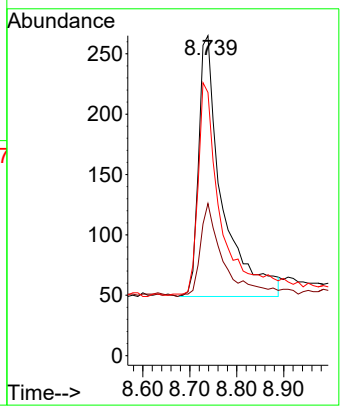


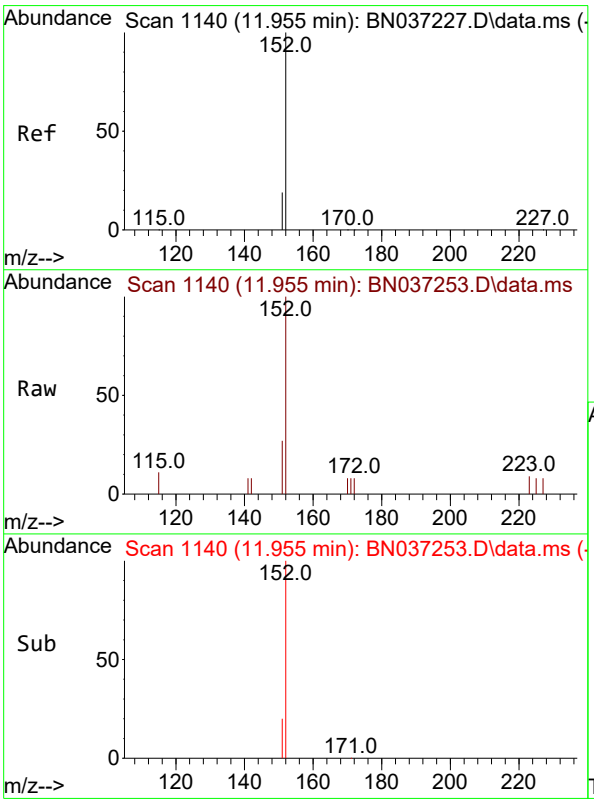
#8
Nitrobenzene-d5
Concen: 0.323 ng
RT: 8.739 min Scan# 7
Delta R.T. 0.011 min
Lab File: BN037253.D
Acq: 14 Jun 2025 07:46

Instrument :
BNA_N
ClientSampleId :
RW10A-MW01I-20250609

Tgt Ion: 82 Resp: 747

Ion	Ratio	Lower	Upper
82	100		
128	47.5	31.2	46.8#
54	82.3	63.3	94.9

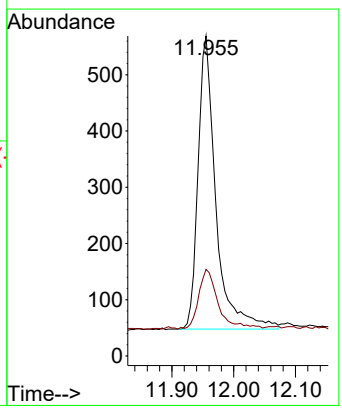


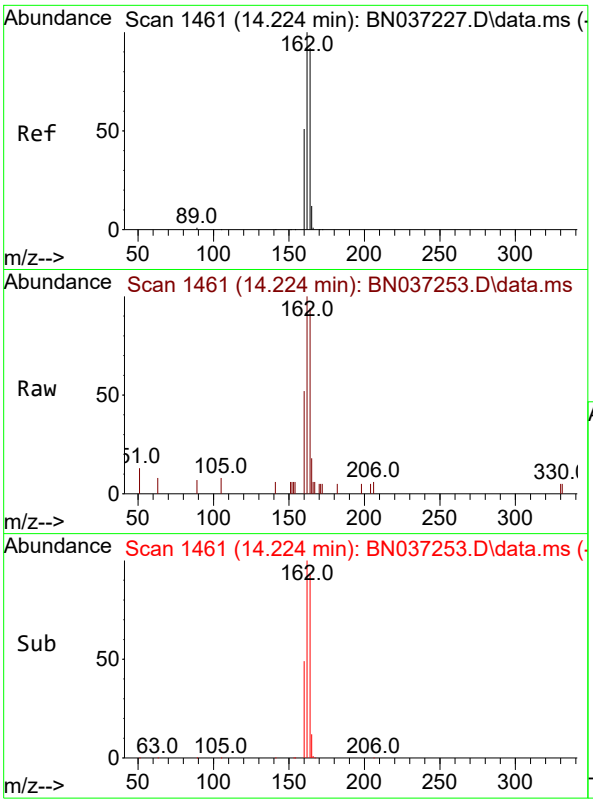


#11
2-Methylnaphthalene-d10
Concen: 0.333 ng
RT: 11.955 min Scan# 1140
Delta R.T. 0.000 min
Lab File: BN037253.D
Acq: 14 Jun 2025 07:46

Tgt Ion:152 Resp: 1044

Ion	Ratio	Lower	Upper
152	100		
151	22.3	17.9	26.9



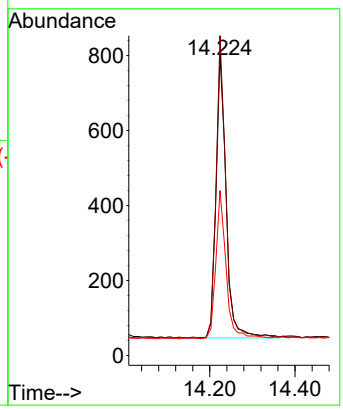


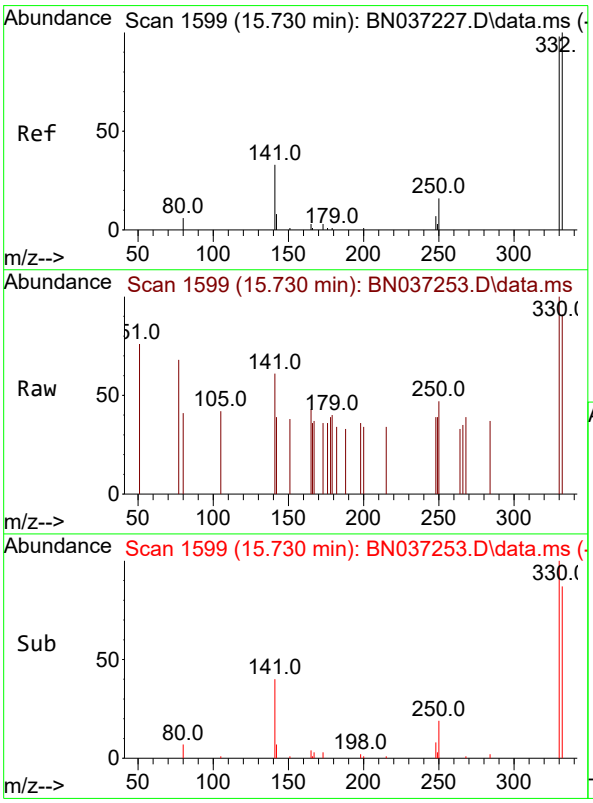
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037253.D
Acq: 14 Jun 2025 07:46

Instrument :
BNA_N
ClientSampleId :
RW10A-MW01I-20250609

Tgt Ion:164 Resp: 1252

Ion	Ratio	Lower	Upper
164	100		
162	106.2	86.7	130.1
160	54.8	45.8	68.6

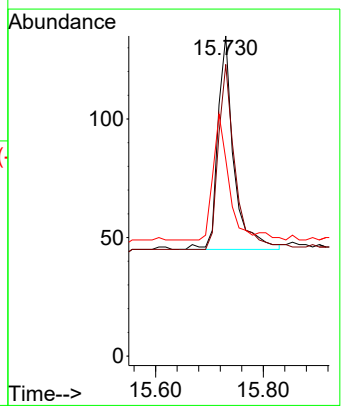


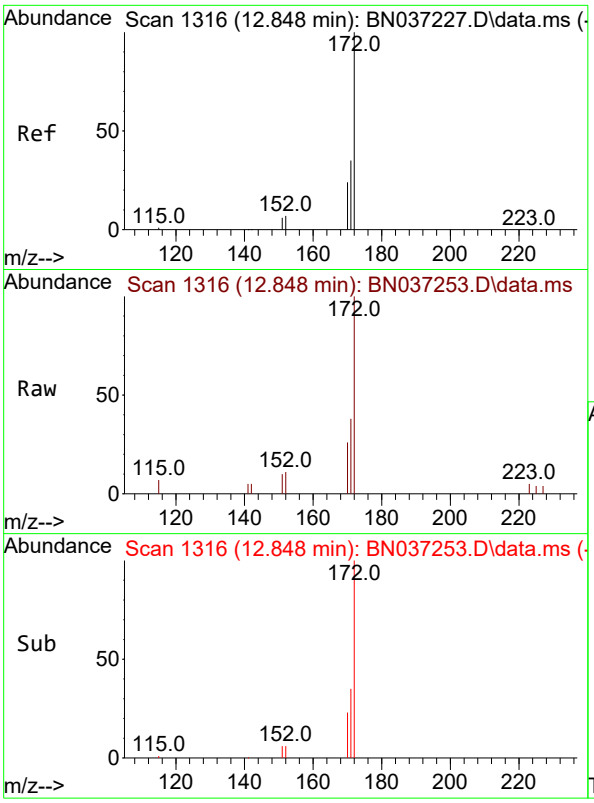


#14
2,4,6-Tribromophenol
Concen: 0.356 ng
RT: 15.730 min Scan# 1599
Delta R.T. 0.000 min
Lab File: BN037253.D
Acq: 14 Jun 2025 07:46

Tgt Ion:330 Resp: 185

Ion	Ratio	Lower	Upper
330	100		
332	92.4	74.9	112.3
141	59.5	45.1	67.7



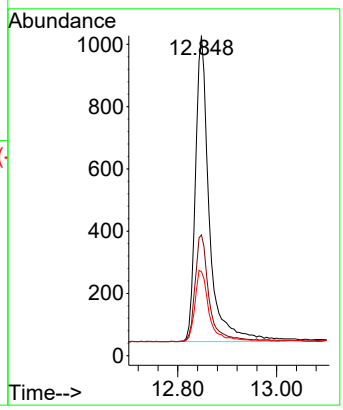


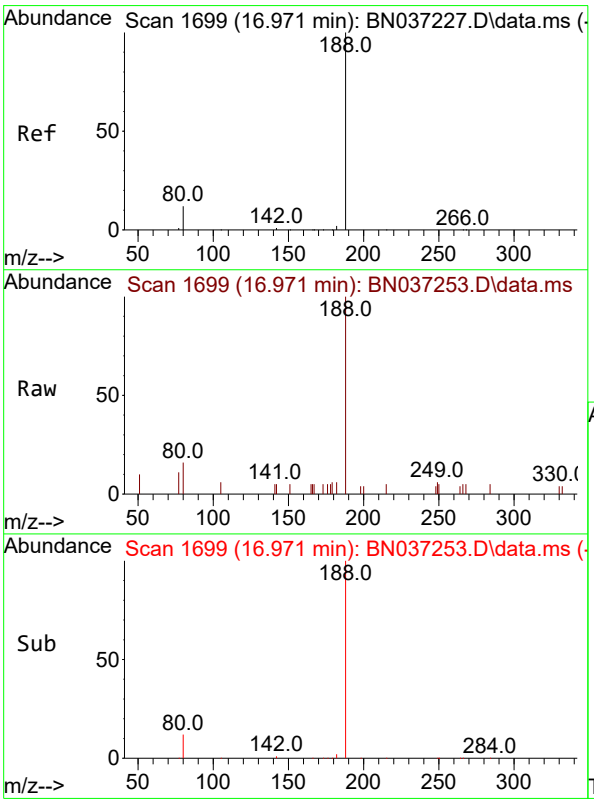
#15
2-Fluorobiphenyl
Concen: 0.364 ng
RT: 12.848 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037253.D
Acq: 14 Jun 2025 07:46

Instrument :
BNA_N
ClientSampleId :
RW10A-MW01I-20250609

Tgt Ion:172 Resp: 1914

Ion	Ratio	Lower	Upper
172	100		
171	37.7	29.8	44.8
170	26.3	21.1	31.7

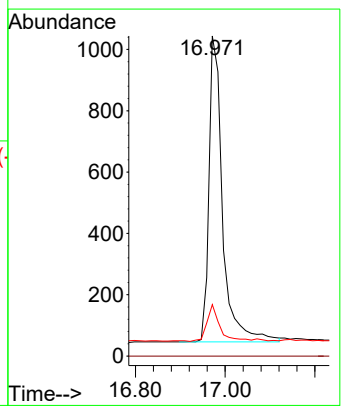


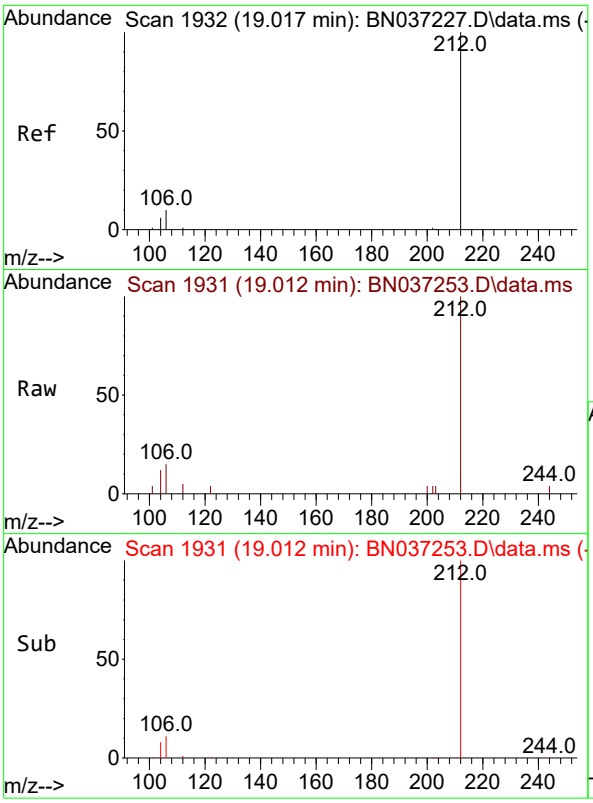


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1699
Delta R.T. 0.000 min
Lab File: BN037253.D
Acq: 14 Jun 2025 07:46

Tgt Ion:188 Resp: 2096

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	16.1	12.2	18.4



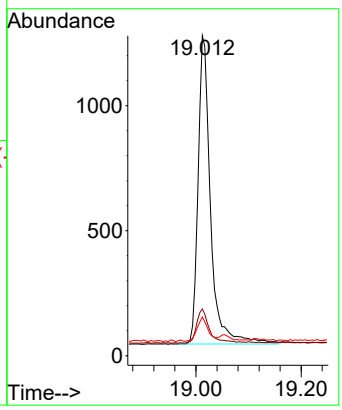


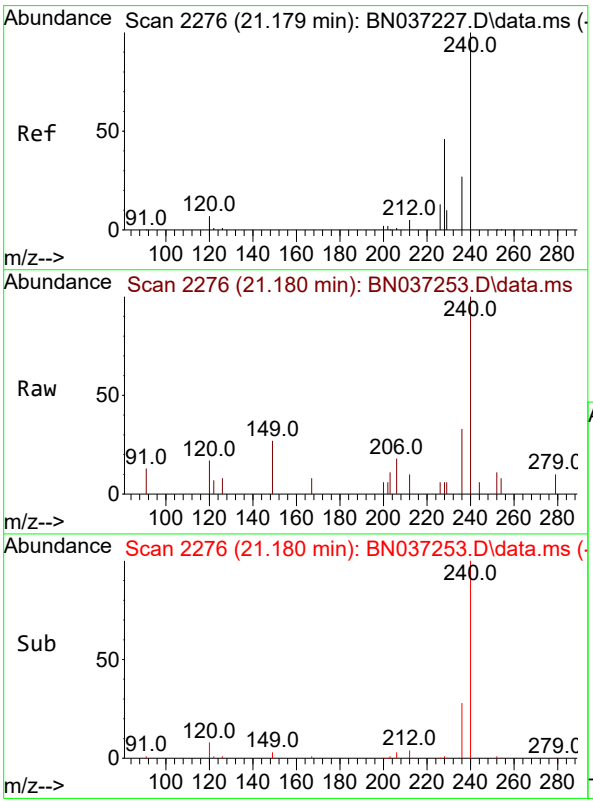
#27
Fluoranthene-d10
Concen: 0.370 ng
RT: 19.012 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN037253.D
Acq: 14 Jun 2025 07:46

Instrument :
BNA_N
ClientSampleId :
RW10A-MW01I-20250609

Tgt Ion:212 Resp: 2031

Ion	Ratio	Lower	Upper
212	100		
106	11.3	9.3	13.9
104	6.8	5.7	8.5

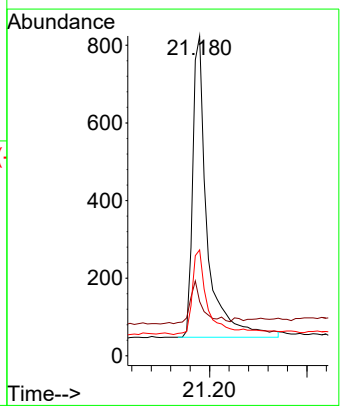


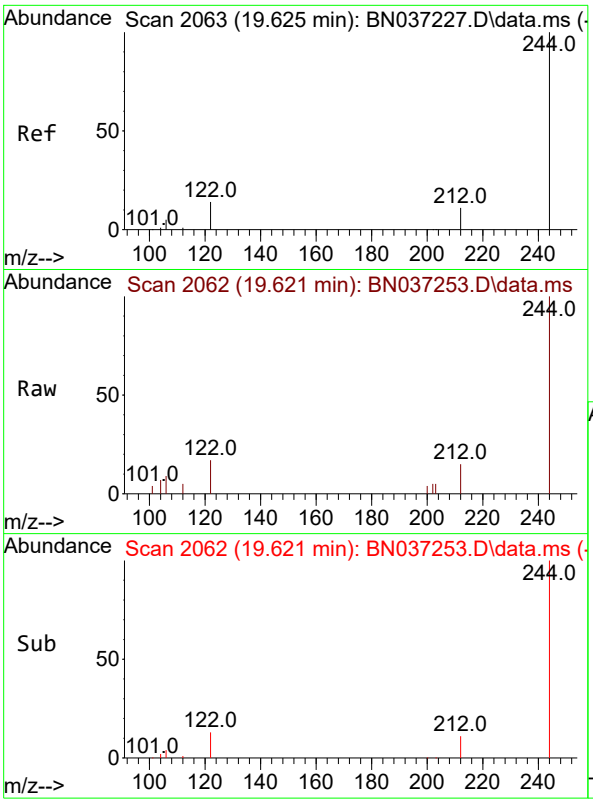


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.180 min Scan# 2276
Delta R.T. 0.000 min
Lab File: BN037253.D
Acq: 14 Jun 2025 07:46

Tgt Ion:240 Resp: 1604

Ion	Ratio	Lower	Upper
240	100		
120	17.0	11.3	16.9#
236	33.1	24.4	36.6



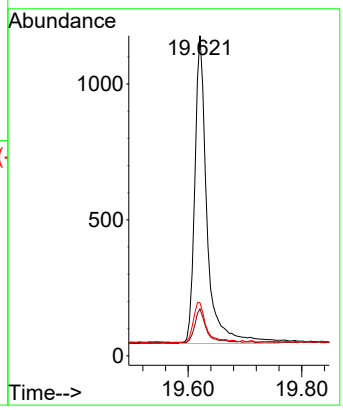


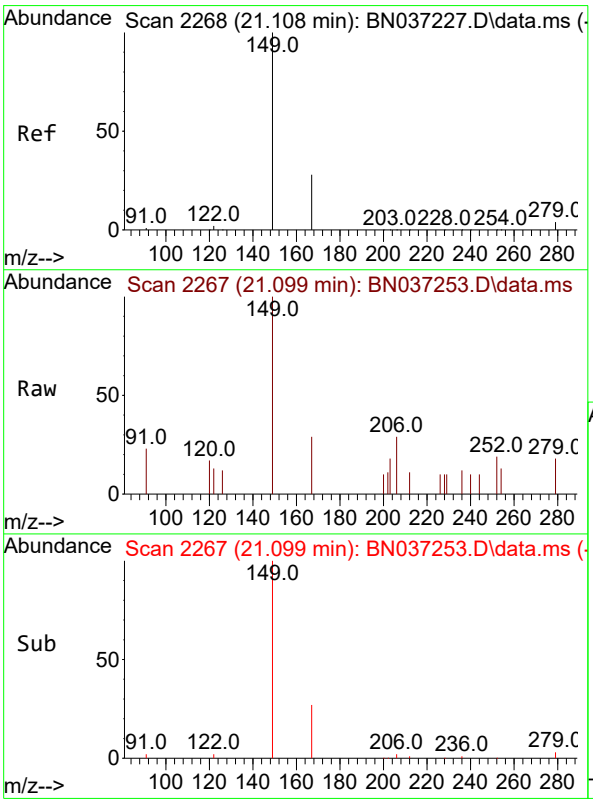
#31
Terphenyl-d14
Concen: 0.469 ng
RT: 19.621 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN037253.D
Acq: 14 Jun 2025 07:46

Instrument :
BNA_N
ClientSampleId :
RW10A-MW01I-20250609

Tgt Ion:244 Resp: 1700

Ion	Ratio	Lower	Upper
244	100		
212	14.6	12.2	18.2
122	16.6	14.3	21.5

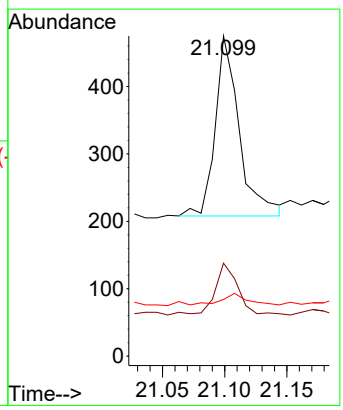


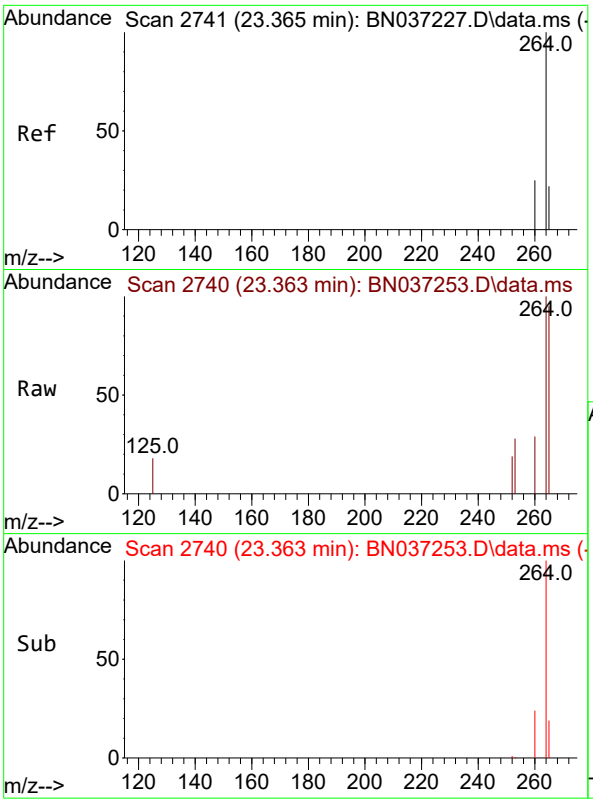


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.089 ng
RT: 21.099 min Scan# 2267
Delta R.T. -0.009 min
Lab File: BN037253.D
Acq: 14 Jun 2025 07:46

Tgt Ion:149 Resp: 359

Ion	Ratio	Lower	Upper
149	100		
167	27.6	21.3	31.9
279	7.0	3.3	4.9#



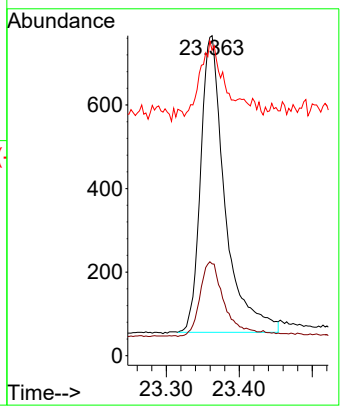


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.363 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN037253.D
Acq: 14 Jun 2025 07:46

Instrument :
BNA_N
ClientSampleId :
RW10A-MW01I-20250609

Tgt Ion:264 Resp: 1645

Ion	Ratio	Lower	Upper
264	100		
260	28.7	22.8	34.2
265	95.4	66.4	99.6



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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/10/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/11/25
Client Sample ID:	TT158I1-20250610	SDG No.:	Q2299
Lab Sample ID:	Q2299-11	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037254.D	1	06/13/25 08:03	06/14/25 08:22	PB168458

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.29		30 - 150		73%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.37		30 - 150		91%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.25		55 - 111		62%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.31		53 - 106		78%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.57	*	58 - 132		142%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	883	7.582				
1146-65-2	Naphthalene-d8	2220	10.361				
15067-26-2	Acenaphthene-d10	1190	14.224				
1517-22-2	Phenanthrene-d10	1990	16.971				
1719-03-5	Chrysene-d12	1560	21.18				
1520-96-3	Perylene-d12	1570	23.363				

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_N\Data\BN061325\
Data File : BN037254.D
Acq On : 14 Jun 2025 08:22
Operator : RC/JU
Sample : Q2299-11
Misc :
ALS Vial : 33 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT158l1-20250610

Quant Time: Jun 16 01:01:12 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration

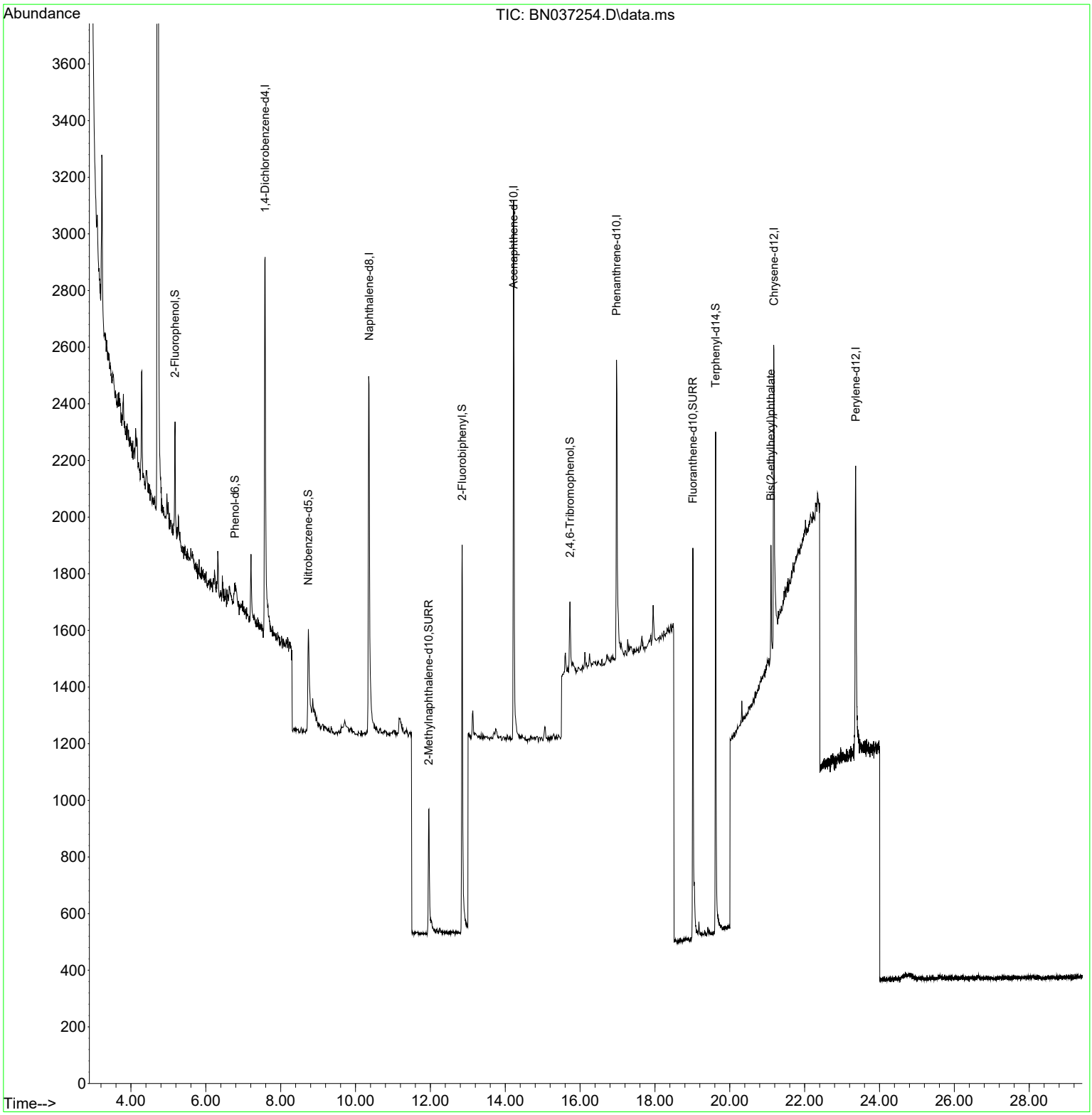
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.582	152	883	0.400	ng	0.00
7) Naphthalene-d8	10.361	136	2223	0.400	ng	# 0.00
13) Acenaphthene-d10	14.224	164	1185	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	1991	0.400	ng	0.00
29) Chrysene-d12	21.180	240	1557	0.400	ng	# 0.00
35) Perylene-d12	23.363	264	1567	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	276	0.127	ng	0.00
5) Phenol-d6	6.780	99	134	0.059	ng	0.02
8) Nitrobenzene-d5	8.739	82	545	0.248	ng	0.01
11) 2-Methylnaphthalene-d10	11.955	152	873	0.293	ng	0.00
14) 2,4,6-Tribromophenol	15.730	330	179	0.364	ng	0.00
15) 2-Fluorobiphenyl	12.848	172	1556	0.312	ng	0.00
27) Fluoranthene-d10	19.012	212	1903	0.365	ng	0.00
31) Terphenyl-d14	19.621	244	2004	0.569	ng	0.00
Target Compounds						Qvalue
34) Bis(2-ethylhexyl)phtha...	21.099	149	378	0.097	ng	# 92

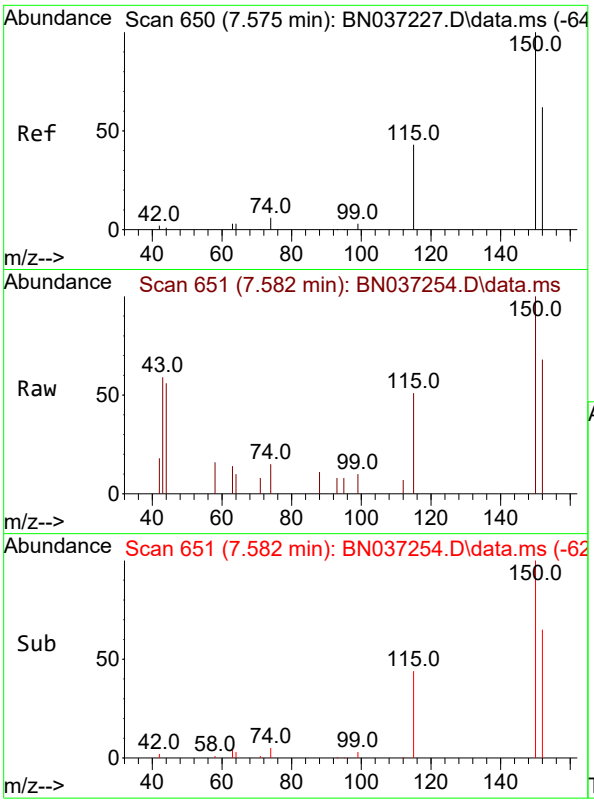
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037254.D
Acq On : 14 Jun 2025 08:22
Operator : RC/JU
Sample : Q2299-11
Misc :
ALS Vial : 33 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT158I1-20250610

Quant Time: Jun 16 01:01:12 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration



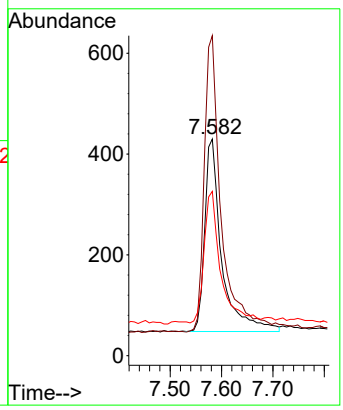


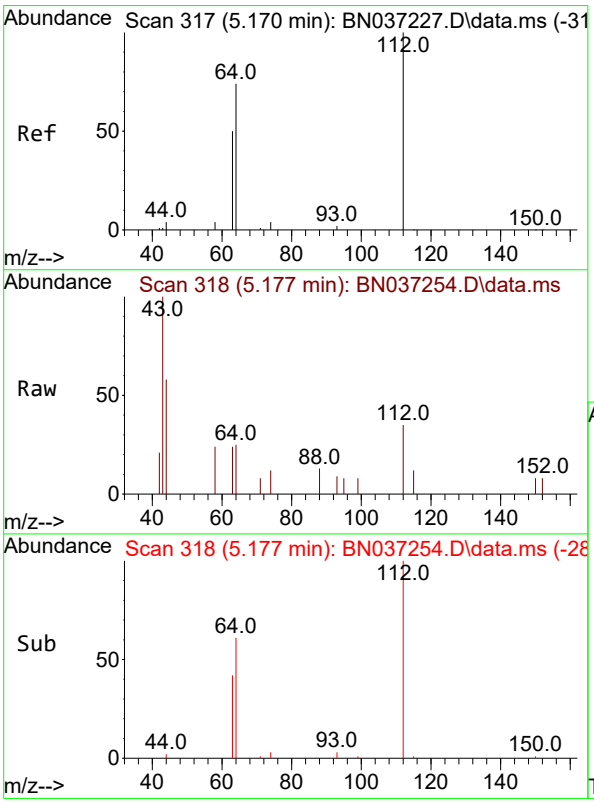
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.582 min Scan# 6
Delta R.T. 0.007 min
Lab File: BN037254.D
Acq: 14 Jun 2025 08:22

Instrument :
BNA_N
ClientSampleId :
TT158I1-20250610

Tgt Ion:152 Resp: 883

Ion	Ratio	Lower	Upper
152	100		
150	147.7	125.2	187.8
115	75.8	58.4	87.6

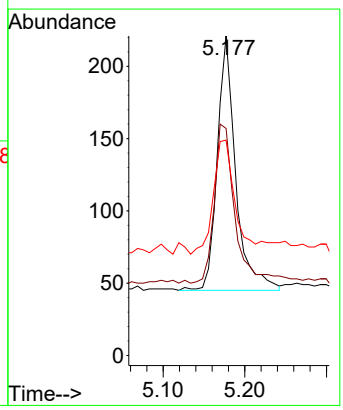


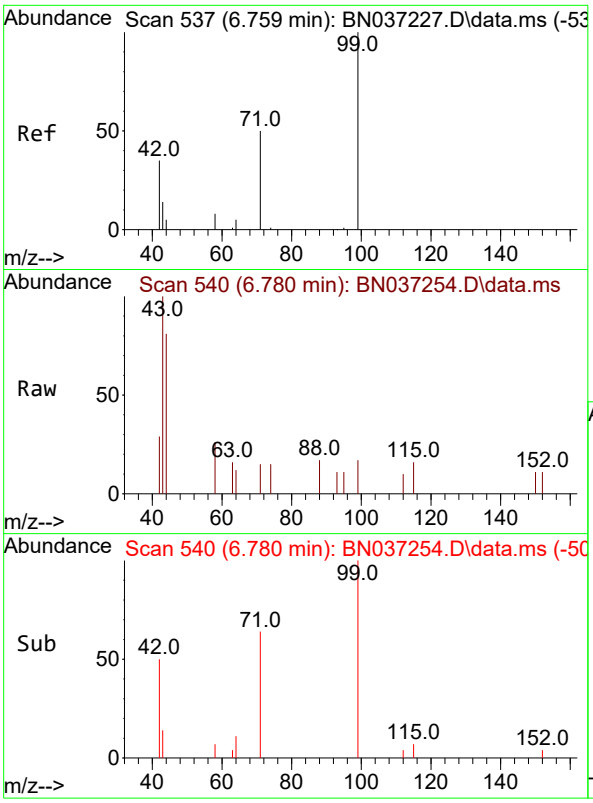


#4
2-Fluorophenol
Concen: 0.127 ng
RT: 5.177 min Scan# 318
Delta R.T. 0.007 min
Lab File: BN037254.D
Acq: 14 Jun 2025 08:22

Tgt Ion:112 Resp: 276

Ion	Ratio	Lower	Upper
112	100		
64	71.4	57.2	85.8
63	51.8	39.8	59.6



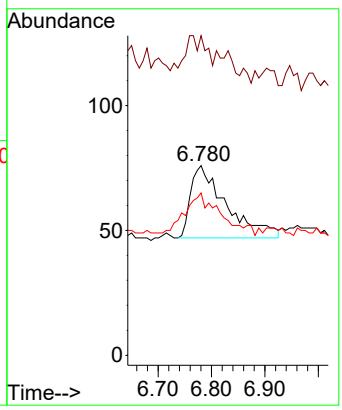


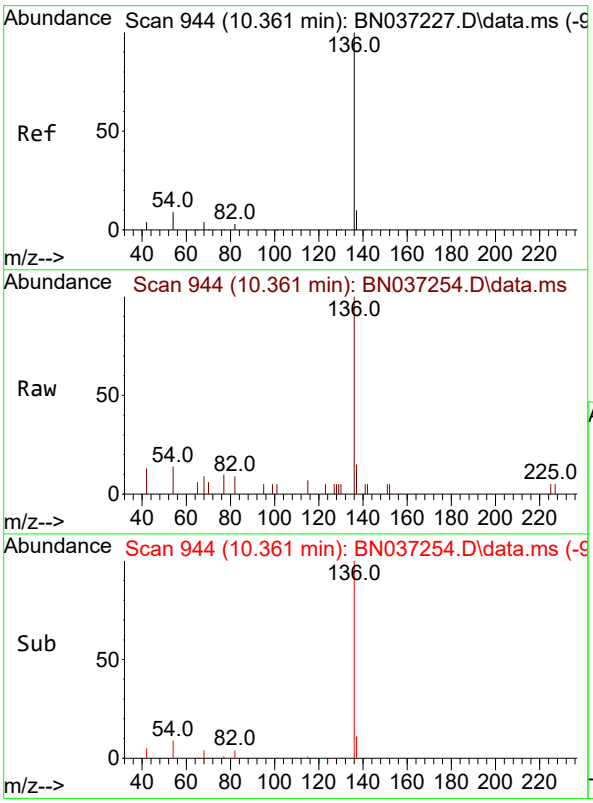
#5
Phenol-d6
Concen: 0.059 ng
RT: 6.780 min Scan# 54
Delta R.T. 0.022 min
Lab File: BN037254.D
Acq: 14 Jun 2025 08:22

Instrument :
BNA_N
ClientSampleId :
TT158I1-20250610

Tgt Ion: 99 Resp: 134

Ion	Ratio	Lower	Upper
99	100		
42	0.0	36.2	54.4#
71	59.0	42.4	63.6

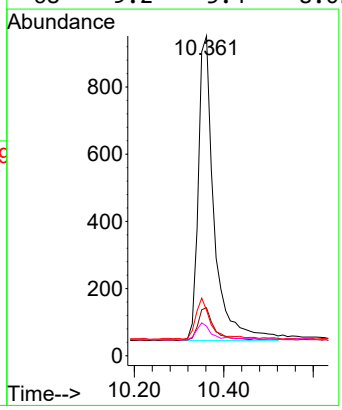


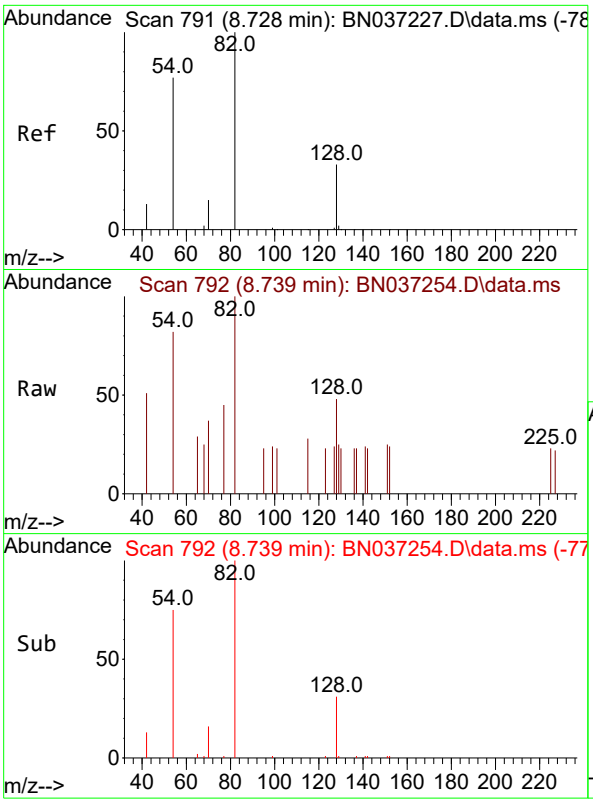


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.361 min Scan# 944
Delta R.T. 0.000 min
Lab File: BN037254.D
Acq: 14 Jun 2025 08:22

Tgt Ion:136 Resp: 2223

Ion	Ratio	Lower	Upper
136	100		
137	15.0	10.6	15.8
54	14.3	9.2	13.8#
68	9.2	5.4	8.0#



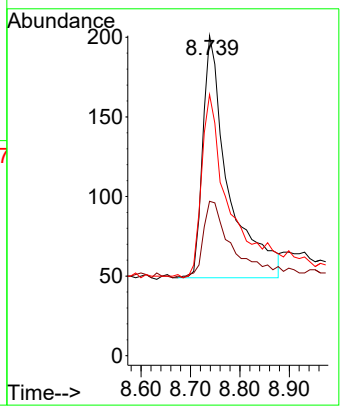


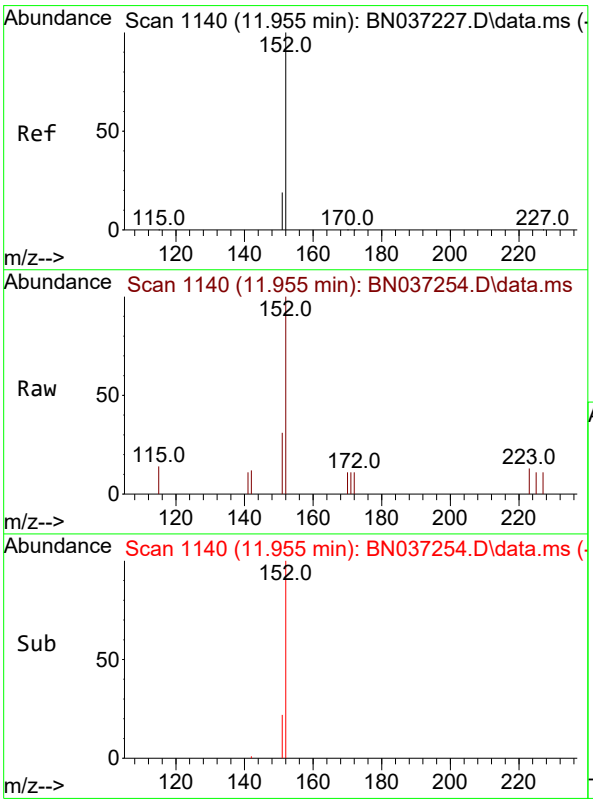
#8
Nitrobenzene-d5
Concen: 0.248 ng
RT: 8.739 min Scan# 7
Delta R.T. 0.011 min
Lab File: BN037254.D
Acq: 14 Jun 2025 08:22

Instrument :
BNA_N
ClientSampleId :
TT158I1-20250610

Tgt Ion: 82 Resp: 545

Ion	Ratio	Lower	Upper
82	100		
128	48.3	31.2	46.8#
54	81.6	63.3	94.9

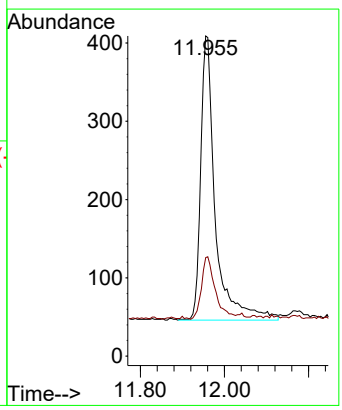


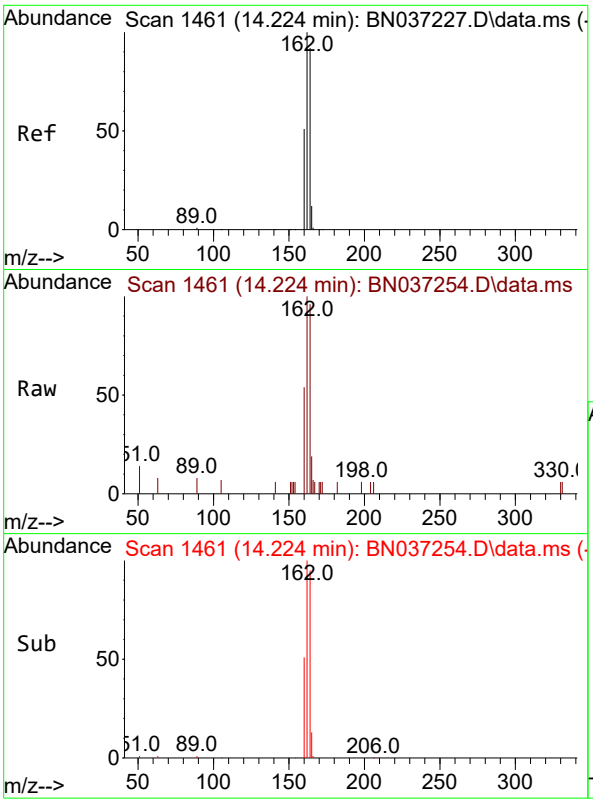


#11
2-Methylnaphthalene-d10
Concen: 0.293 ng
RT: 11.955 min Scan# 1140
Delta R.T. 0.000 min
Lab File: BN037254.D
Acq: 14 Jun 2025 08:22

Tgt Ion:152 Resp: 873

Ion	Ratio	Lower	Upper
152	100		
151	21.1	17.9	26.9



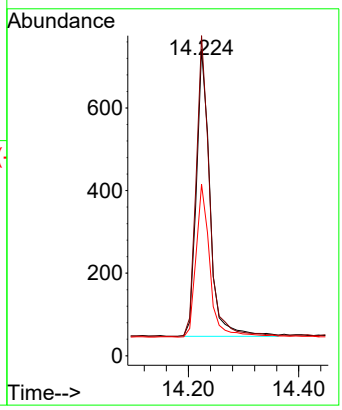


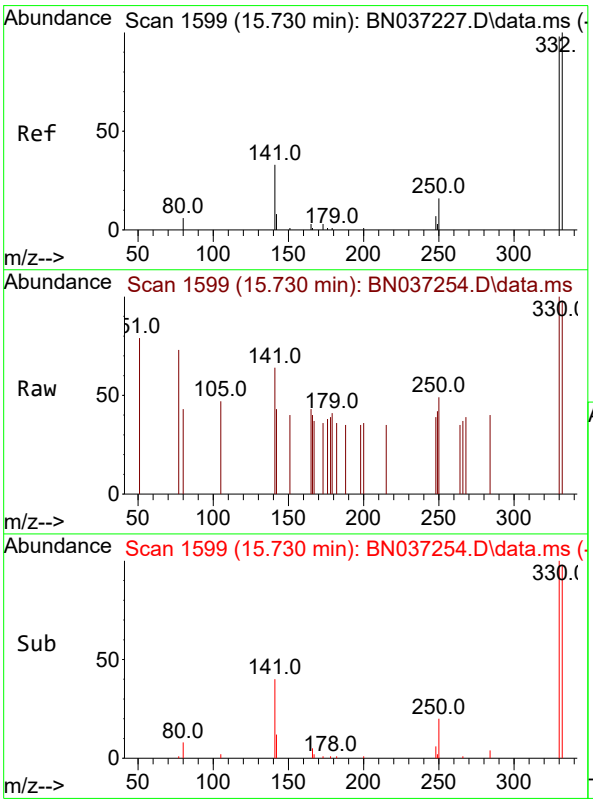
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037254.D
Acq: 14 Jun 2025 08:22

Instrument :
BNA_N
ClientSampleId :
TT158I1-20250610

Tgt Ion:164 Resp: 1185

Ion	Ratio	Lower	Upper
164	100		
162	104.3	86.7	130.1
160	55.9	45.8	68.6

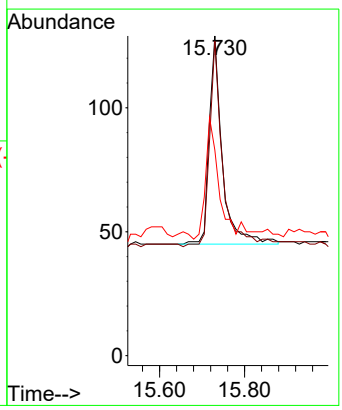


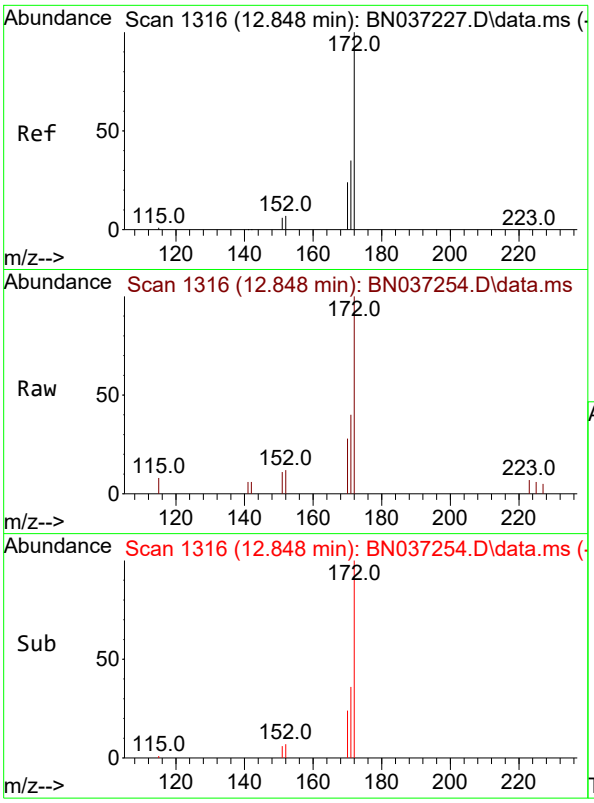


#14
2,4,6-Tribromophenol
Concen: 0.364 ng
RT: 15.730 min Scan# 1599
Delta R.T. 0.000 min
Lab File: BN037254.D
Acq: 14 Jun 2025 08:22

Tgt Ion:330 Resp: 179

Ion	Ratio	Lower	Upper
330	100		
332	98.9	74.9	112.3
141	62.6	45.1	67.7



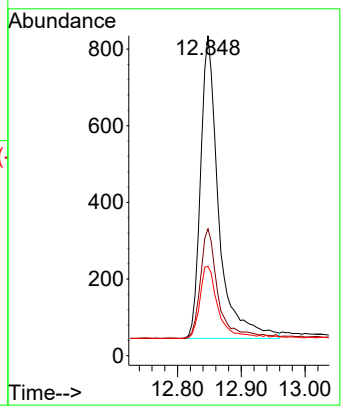


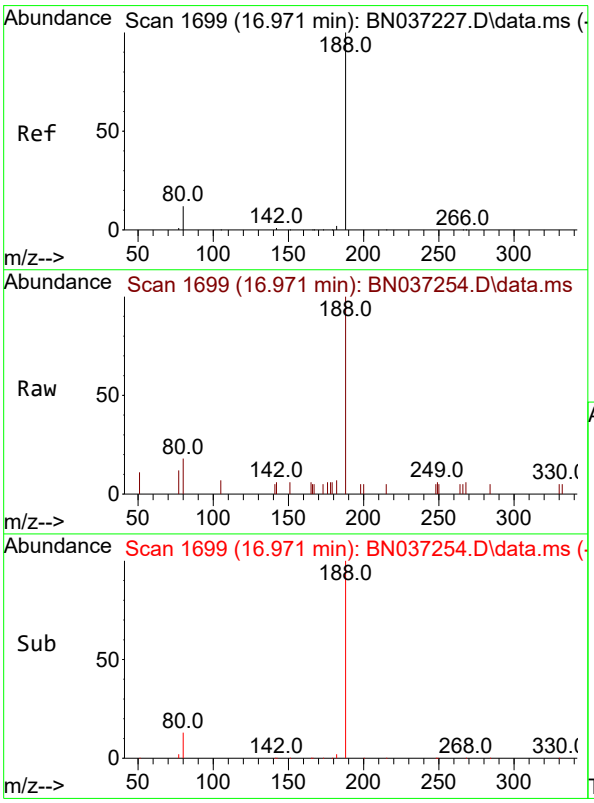
#15
2-Fluorobiphenyl
Concen: 0.312 ng
RT: 12.848 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037254.D
Acq: 14 Jun 2025 08:22

Instrument :
BNA_N
ClientSampleId :
TT158I1-20250610

Tgt Ion:172 Resp: 1556

Ion	Ratio	Lower	Upper
172	100		
171	39.6	29.8	44.8
170	27.9	21.1	31.7

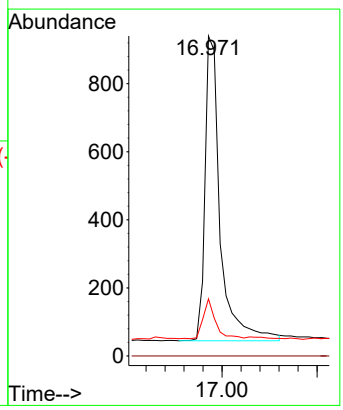


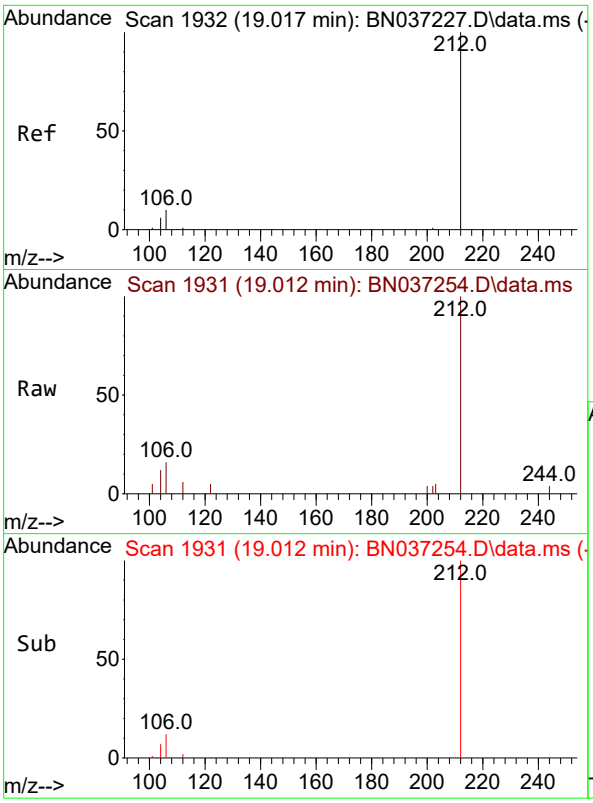


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1699
Delta R.T. 0.000 min
Lab File: BN037254.D
Acq: 14 Jun 2025 08:22

Tgt Ion:188 Resp: 1991

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	17.9	12.2	18.4



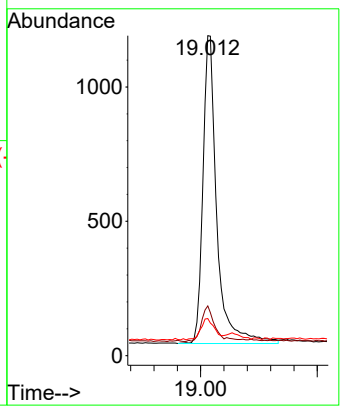


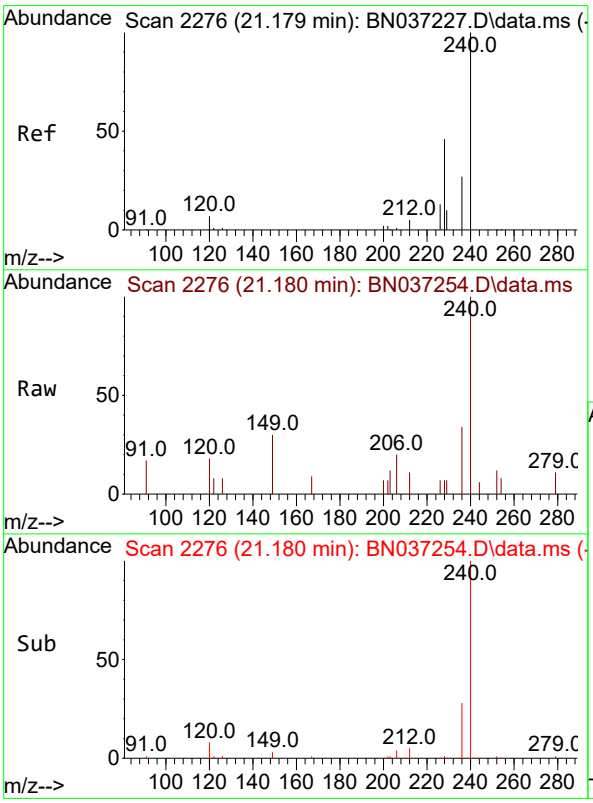
#27
Fluoranthene-d10
Concen: 0.365 ng
RT: 19.012 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN037254.D
Acq: 14 Jun 2025 08:22

Instrument :
BNA_N
ClientSampleId :
TT158I1-20250610

Tgt Ion:212 Resp: 1903

Ion	Ratio	Lower	Upper
212	100		
106	11.4	9.3	13.9
104	6.7	5.7	8.5

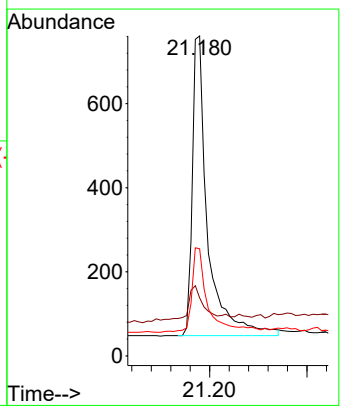


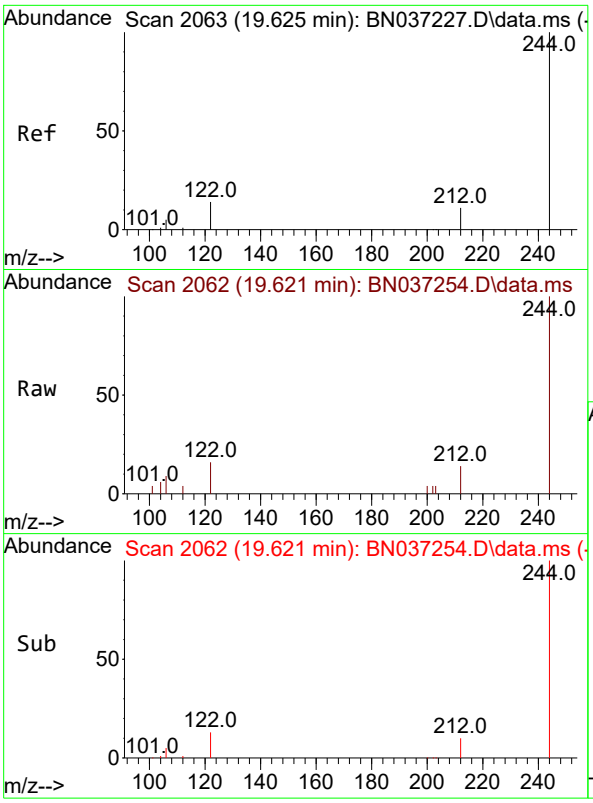


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.180 min Scan# 2276
Delta R.T. 0.000 min
Lab File: BN037254.D
Acq: 14 Jun 2025 08:22

Tgt Ion:240 Resp: 1557

Ion	Ratio	Lower	Upper
240	100		
120	18.1	11.3	16.9#
236	33.5	24.4	36.6



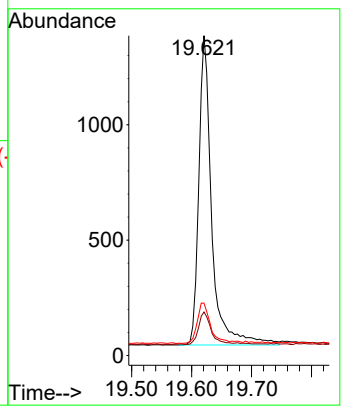


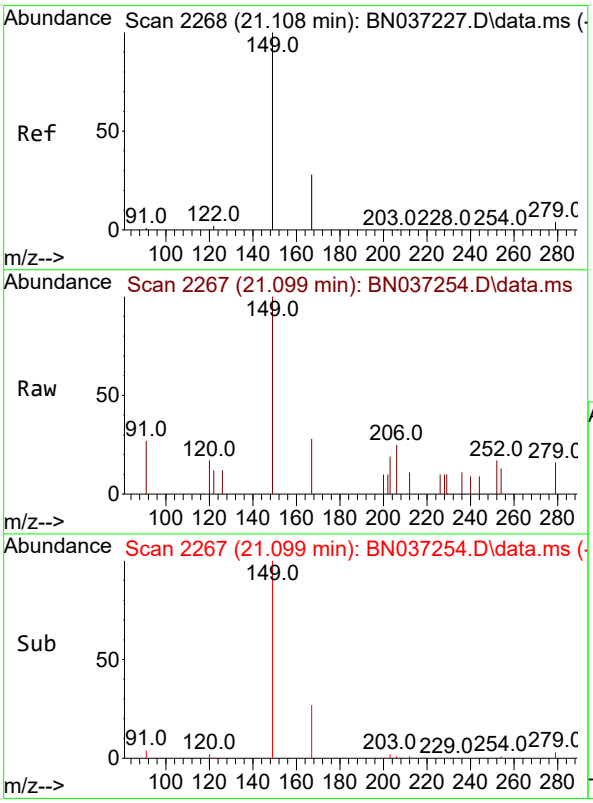
#31
Terphenyl-d14
Concen: 0.569 ng
RT: 19.621 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN037254.D
Acq: 14 Jun 2025 08:22

Instrument :
BNA_N
ClientSampleId :
TT158I1-20250610

Tgt Ion:244 Resp: 2004

Ion	Ratio	Lower	Upper
244	100		
212	13.6	12.2	18.2
122	16.4	14.3	21.5

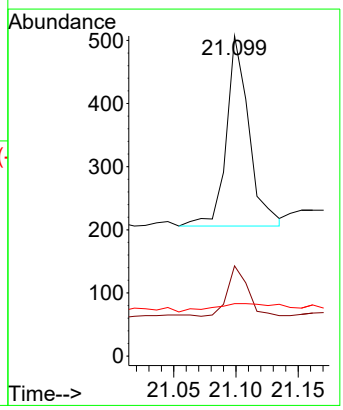


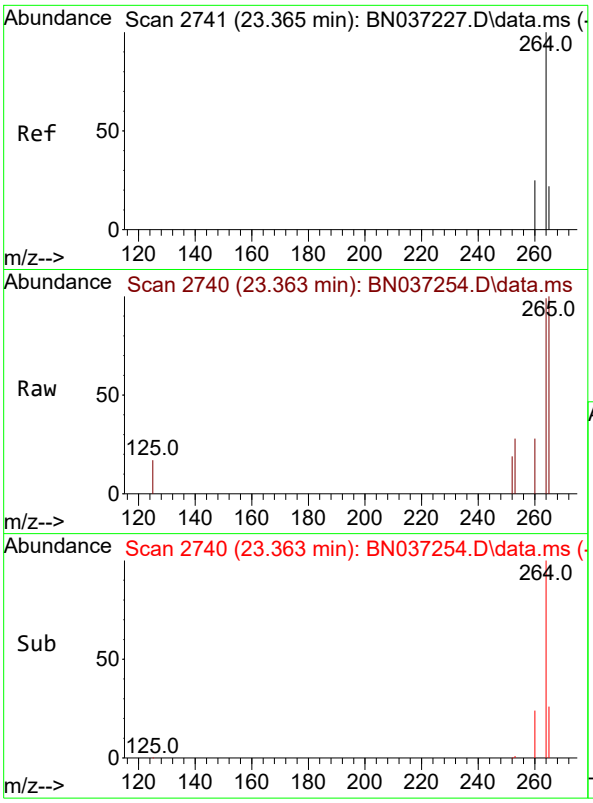


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.097 ng
RT: 21.099 min Scan# 2267
Delta R.T. -0.009 min
Lab File: BN037254.D
Acq: 14 Jun 2025 08:22

Tgt Ion:149 Resp: 378

Ion	Ratio	Lower	Upper
149	100		
167	24.1	21.3	31.9
279	14.0	3.3	4.9#



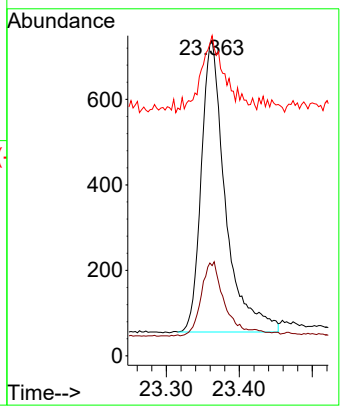


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.363 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN037254.D
Acq: 14 Jun 2025 08:22

Instrument :
BNA_N
ClientSampleId :
TT158l1-20250610

Tgt Ion:264 Resp: 1567

Ion	Ratio	Lower	Upper
264	100		
260	28.6	22.8	34.2
265	101.5	66.4	99.6#



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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/10/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/11/25
Client Sample ID:	DUP01-20250610	SDG No.:	Q2299
Lab Sample ID:	Q2299-12	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037255.D	1	06/13/25 08:03	06/14/25 08:58	PB168458

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.29		30 - 150		72%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.38		30 - 150		95%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.27		55 - 111		67%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.30		53 - 106		76%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.73	*	58 - 132		182%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	902	7.575				
1146-65-2	Naphthalene-d8	2240	10.362				
15067-26-2	Acenaphthene-d10	1190	14.224				
1517-22-2	Phenanthrene-d10	2110	16.971				
1719-03-5	Chrysene-d12	1640	21.18				
1520-96-3	Perylene-d12	1620	23.36				

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_N\Data\BN061325\
Data File : BN037255.D
Acq On : 14 Jun 2025 08:58
Operator : RC/JU
Sample : Q2299-12
Misc :
ALS Vial : 34 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DUP01-20250610

Quant Time: Jun 16 01:01:22 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration

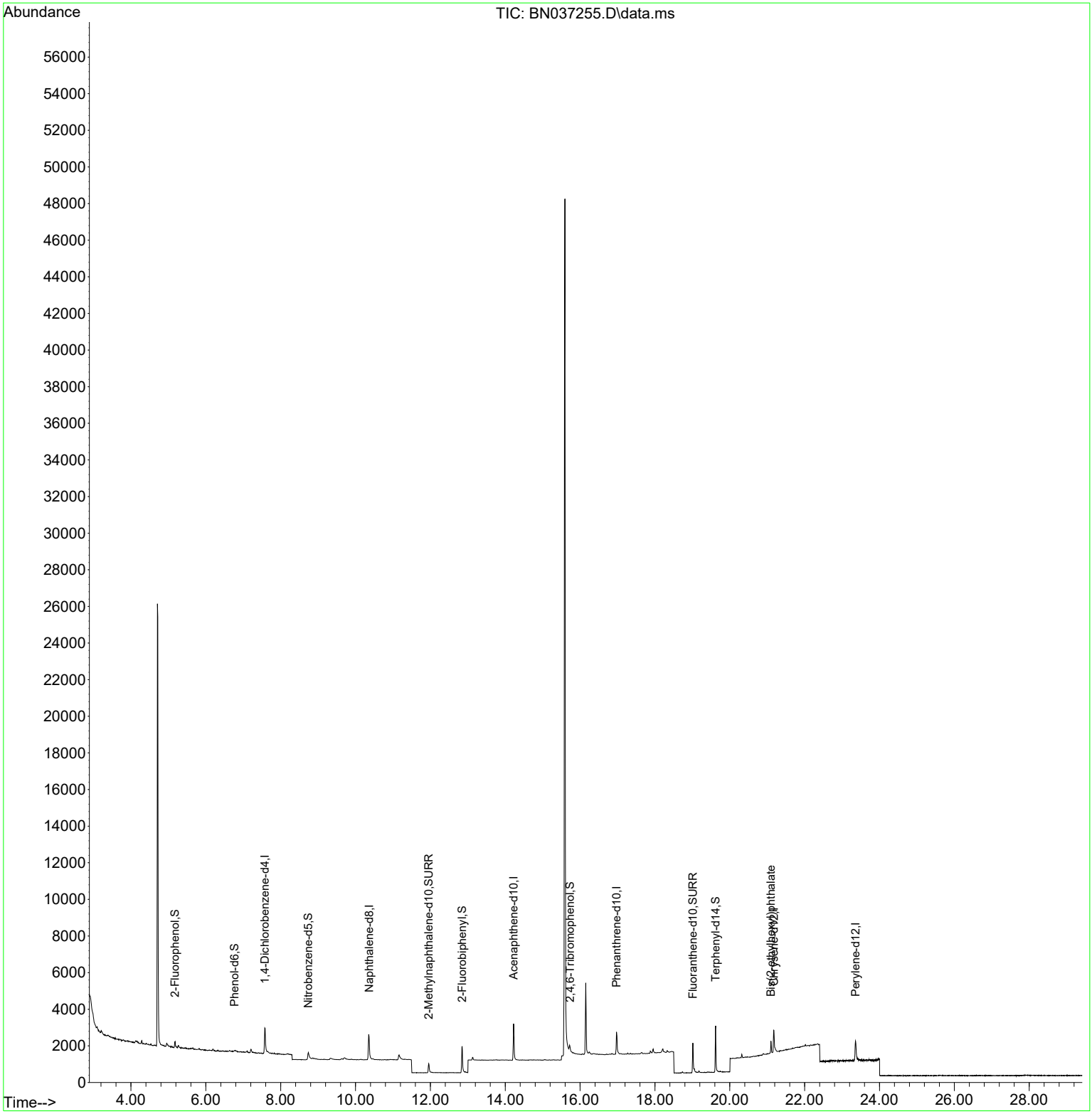
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	902	0.400	ng	0.00
7) Naphthalene-d8	10.362	136	2240	0.400	ng	# 0.00
13) Acenaphthene-d10	14.224	164	1189	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	2107	0.400	ng	0.00
29) Chrysene-d12	21.180	240	1643	0.400	ng	# 0.00
35) Perylene-d12	23.360	264	1624	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	237	0.107	ng	0.00
5) Phenol-d6	6.766	99	105	0.045	ng	0.00
8) Nitrobenzene-d5	8.739	82	596	0.269	ng	0.01
11) 2-Methylnaphthalene-d10	11.955	152	859	0.286	ng	0.00
14) 2,4,6-Tribromophenol	15.730	330	179	0.362	ng	0.00
15) 2-Fluorobiphenyl	12.848	172	1517	0.304	ng	0.00
27) Fluoranthene-d10	19.012	212	2088	0.379	ng	0.00
31) Terphenyl-d14	19.621	244	2703	0.728	ng	0.00
Target Compounds						Qvalue
34) Bis(2-ethylhexyl)phtha...	21.099	149	674	0.163	ng	92

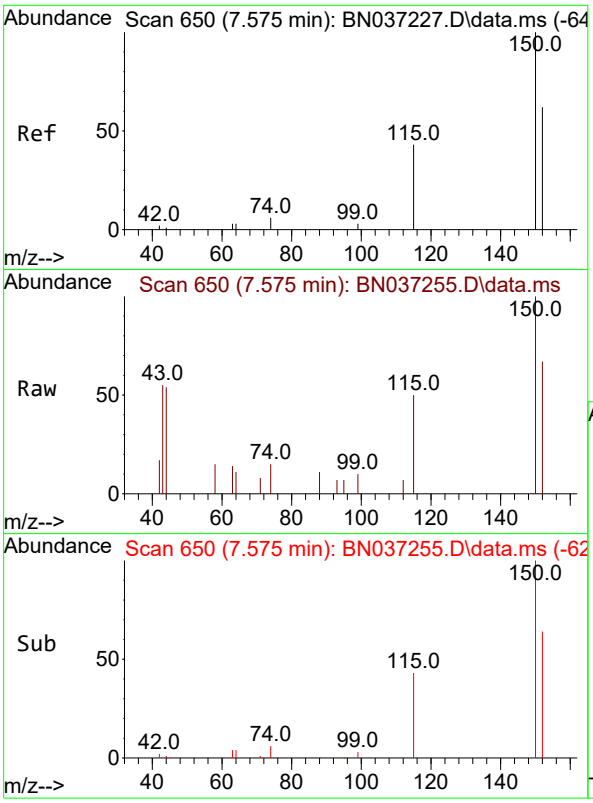
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037255.D
Acq On : 14 Jun 2025 08:58
Operator : RC/JU
Sample : Q2299-12
Misc :
ALS Vial : 34 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DUP01-20250610

Quant Time: Jun 16 01:01:22 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration



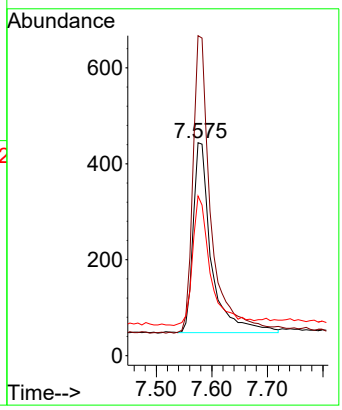


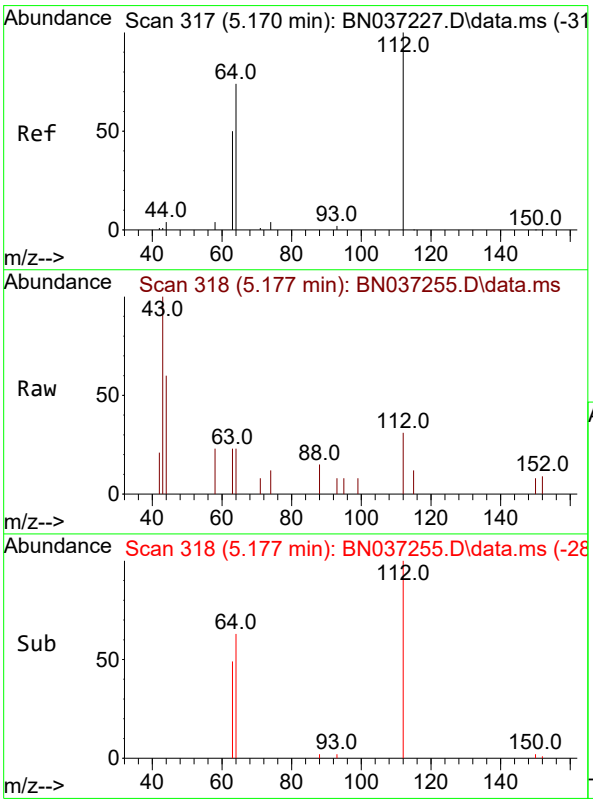
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN037255.D
Acq: 14 Jun 2025 08:58

Instrument :
BNA_N
ClientSampleId :
DUP01-20250610

Tgt Ion:152 Resp: 902

Ion	Ratio	Lower	Upper
152	100		
150	150.2	125.2	187.8
115	75.0	58.4	87.6

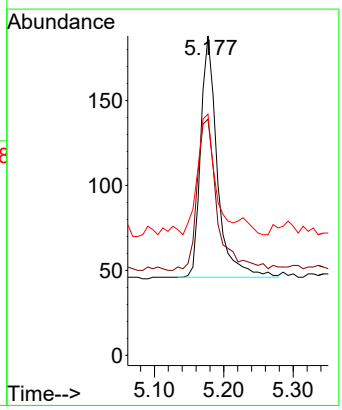


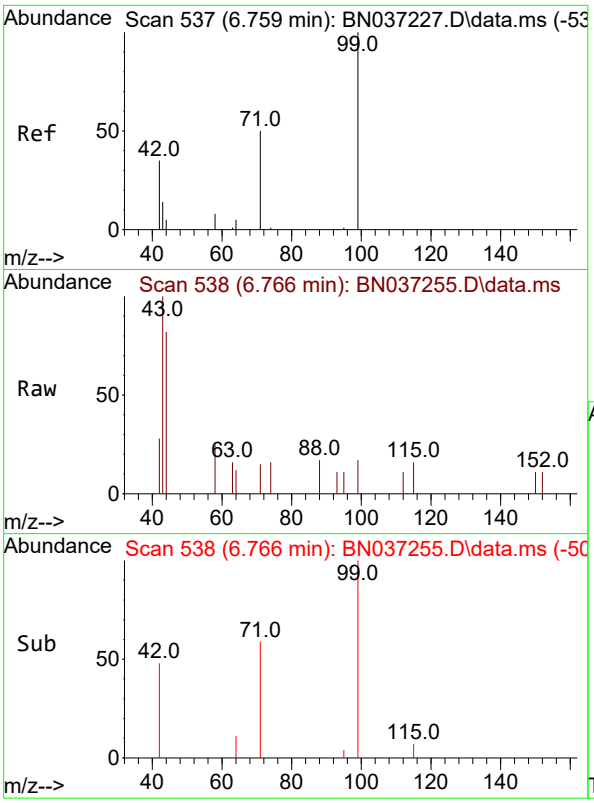


#4
2-Fluorophenol
Concen: 0.107 ng
RT: 5.177 min Scan# 318
Delta R.T. 0.007 min
Lab File: BN037255.D
Acq: 14 Jun 2025 08:58

Tgt Ion:112 Resp: 237

Ion	Ratio	Lower	Upper
112	100		
64	75.5	57.2	85.8
63	52.3	39.8	59.6



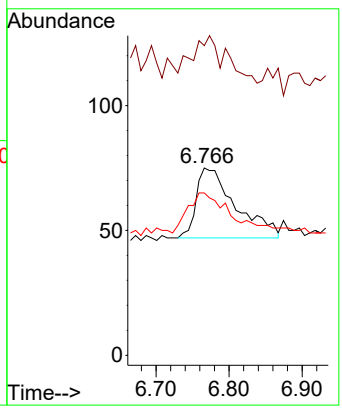


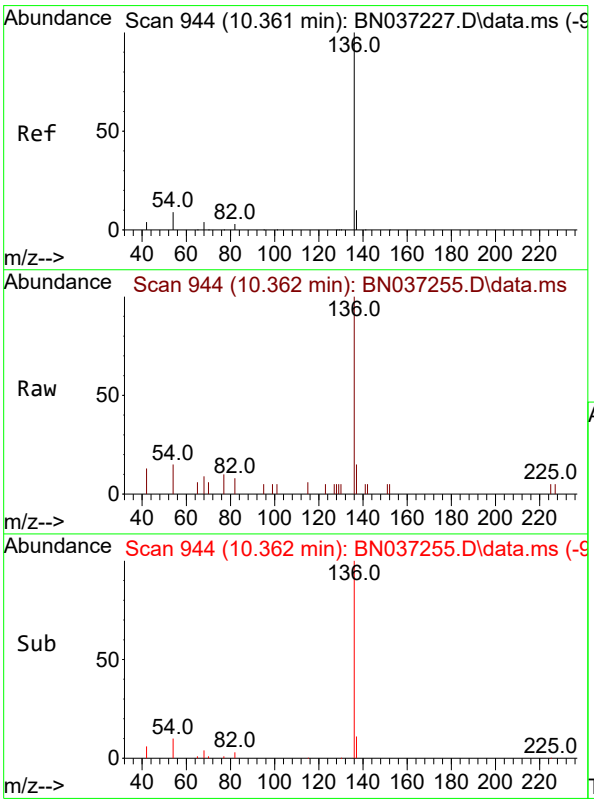
#5
Phenol-d6
Concen: 0.045 ng
RT: 6.766 min Scan# 5
Delta R.T. 0.007 min
Lab File: BN037255.D
Acq: 14 Jun 2025 08:58

Instrument :
BNA_N
ClientSampleId :
DUP01-20250610

Tgt Ion: 99 Resp: 105

Ion	Ratio	Lower	Upper
99	100		
42	28.6	36.2	54.4#
71	71.4	42.4	63.6#

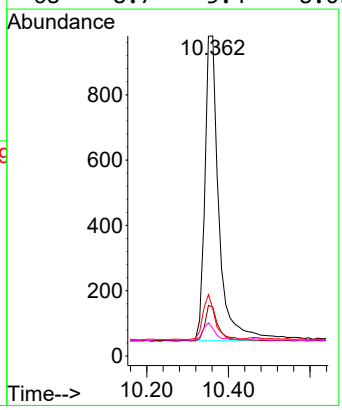


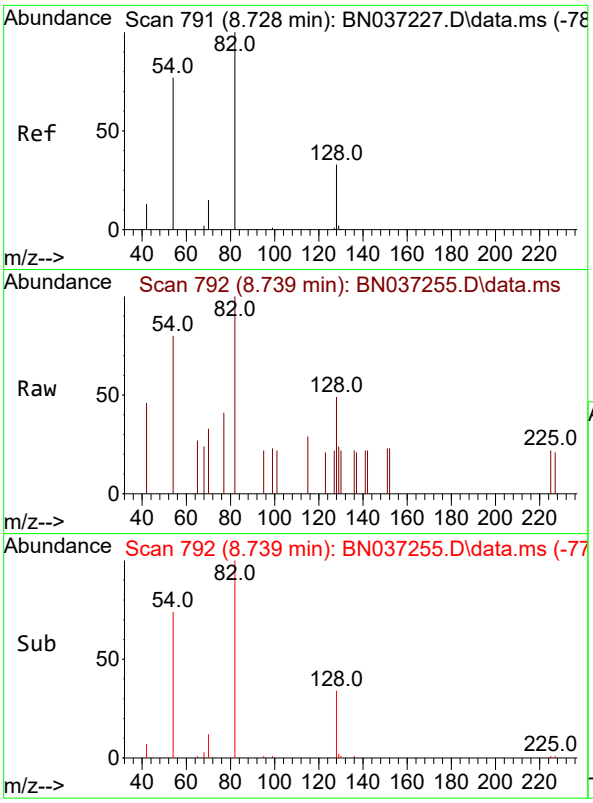


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.362 min Scan# 944
Delta R.T. 0.000 min
Lab File: BN037255.D
Acq: 14 Jun 2025 08:58

Tgt Ion:136 Resp: 2240

Ion	Ratio	Lower	Upper
136	100		
137	15.3	10.6	15.8
54	14.9	9.2	13.8#
68	8.7	5.4	8.0#



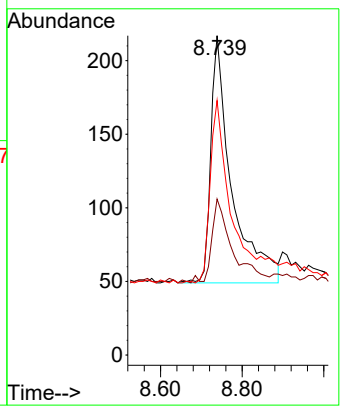


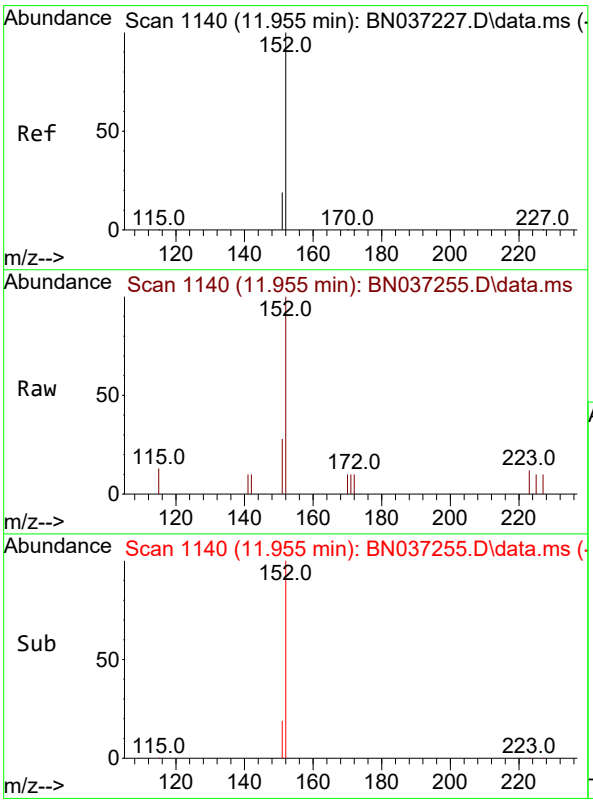
#8
Nitrobenzene-d5
Concen: 0.269 ng
RT: 8.739 min Scan# 7
Delta R.T. 0.011 min
Lab File: BN037255.D
Acq: 14 Jun 2025 08:58

Instrument :
BNA_N
ClientSampleId :
DUP01-20250610

Tgt Ion: 82 Resp: 596

Ion	Ratio	Lower	Upper
82	100		
128	48.8	31.2	46.8#
54	79.7	63.3	94.9

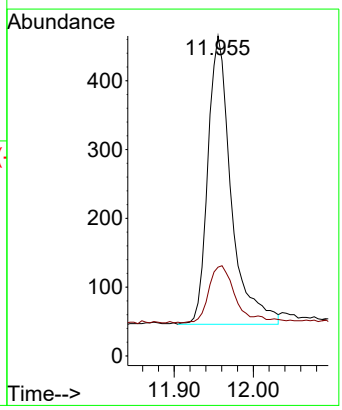


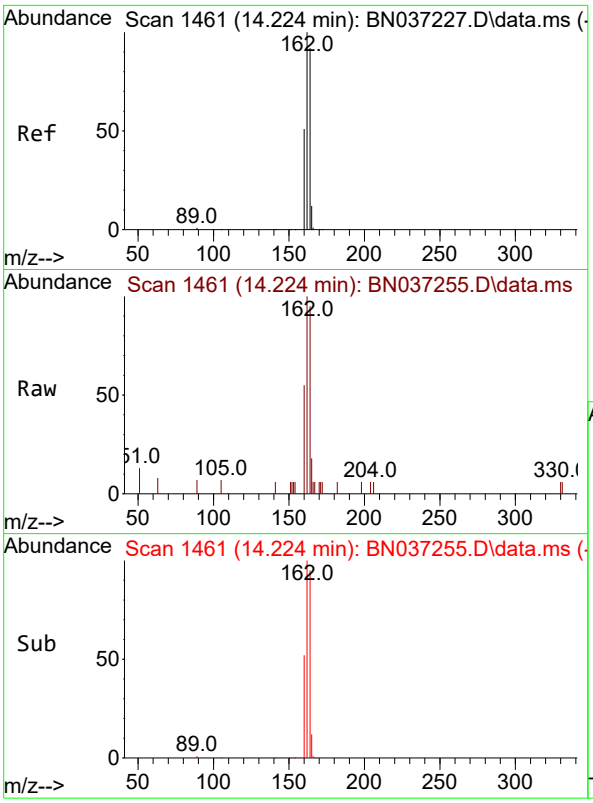


#11
2-Methylnaphthalene-d10
Concen: 0.286 ng
RT: 11.955 min Scan# 1140
Delta R.T. 0.000 min
Lab File: BN037255.D
Acq: 14 Jun 2025 08:58

Tgt Ion:152 Resp: 859

Ion	Ratio	Lower	Upper
152	100		
151	22.5	17.9	26.9



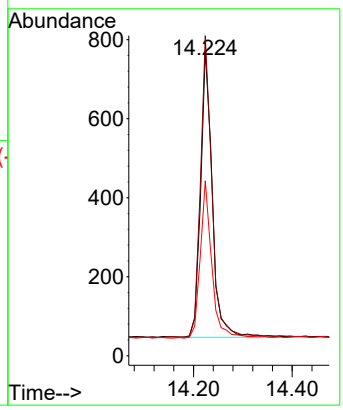


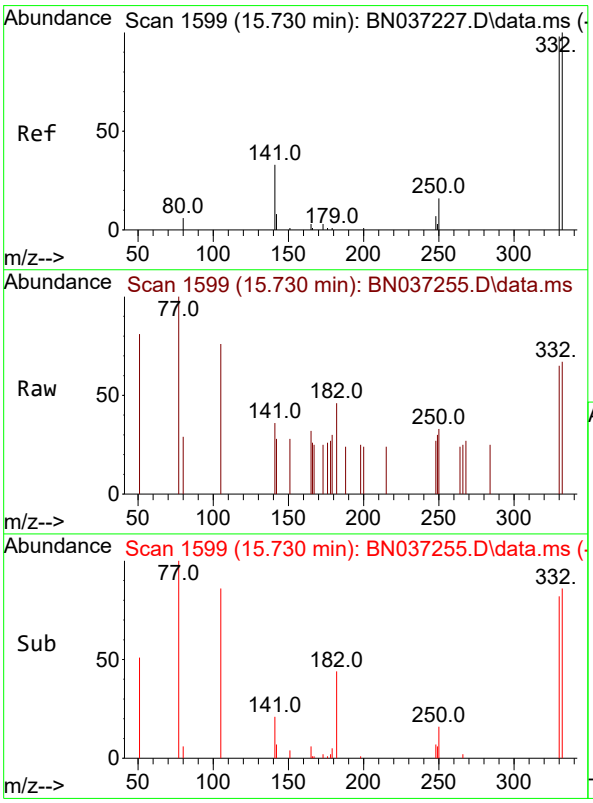
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037255.D
Acq: 14 Jun 2025 08:58

Instrument :
BNA_N
ClientSampleId :
DUP01-20250610

Tgt Ion:164 Resp: 1189

Ion	Ratio	Lower	Upper
164	100		
162	104.9	86.7	130.1
160	57.4	45.8	68.6

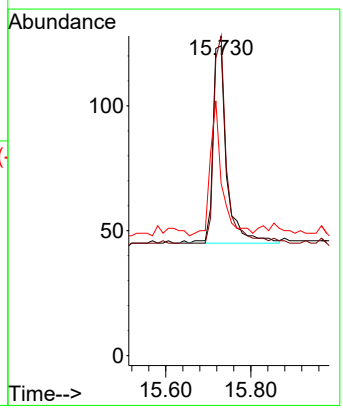


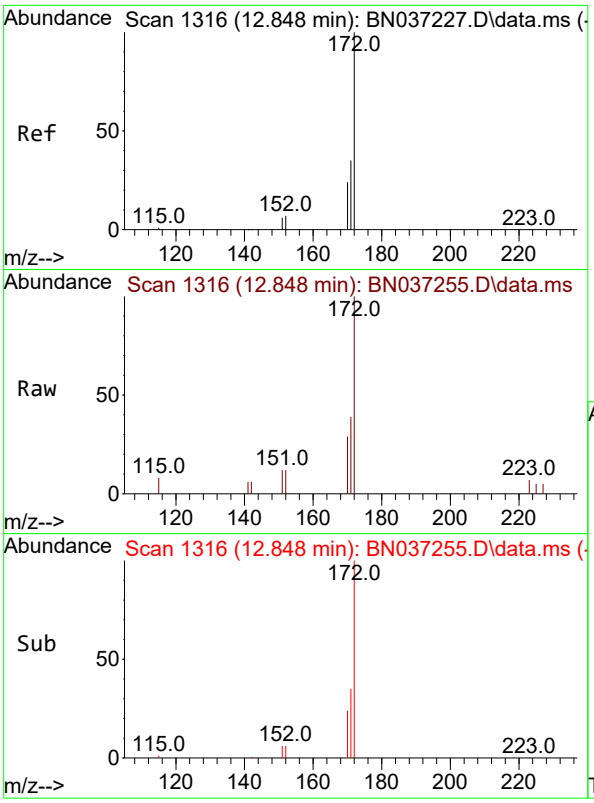


#14
2,4,6-Tribromophenol
Concen: 0.362 ng
RT: 15.730 min Scan# 1599
Delta R.T. 0.000 min
Lab File: BN037255.D
Acq: 14 Jun 2025 08:58

Tgt Ion:330 Resp: 179

Ion	Ratio	Lower	Upper
330	100		
332	96.6	74.9	112.3
141	58.1	45.1	67.7



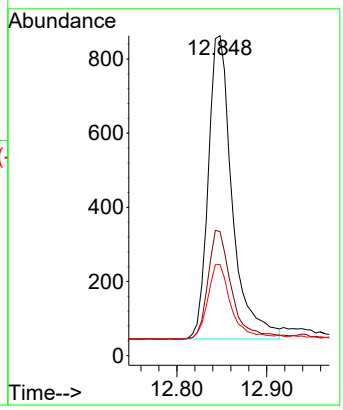


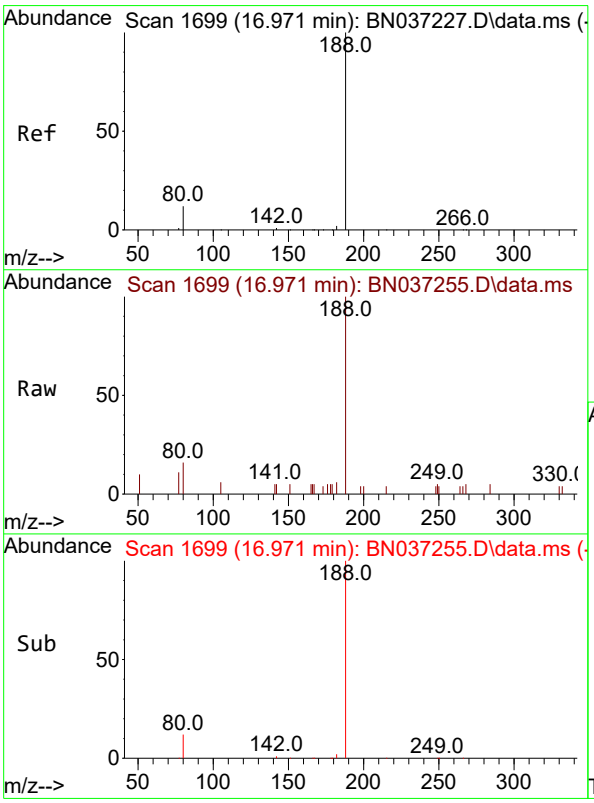
#15
2-Fluorobiphenyl
Concen: 0.304 ng
RT: 12.848 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037255.D
Acq: 14 Jun 2025 08:58

Instrument :
BNA_N
ClientSampleId :
DUP01-20250610

Tgt Ion:172 Resp: 1517

Ion	Ratio	Lower	Upper
172	100		
171	38.8	29.8	44.8
170	28.5	21.1	31.7

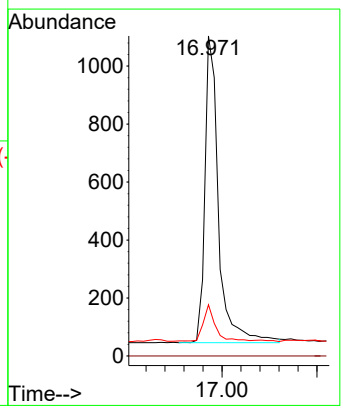


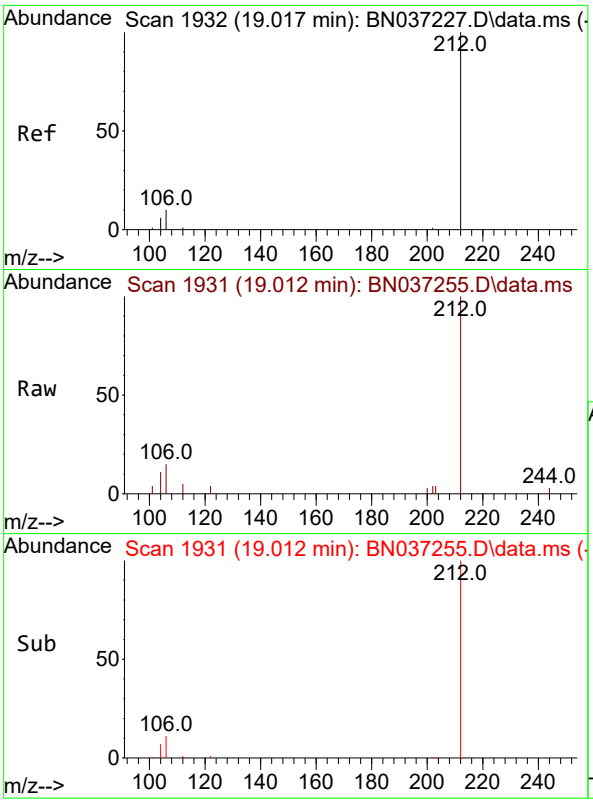


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1699
Delta R.T. 0.000 min
Lab File: BN037255.D
Acq: 14 Jun 2025 08:58

Tgt Ion:188 Resp: 2107

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	16.0	12.2	18.4



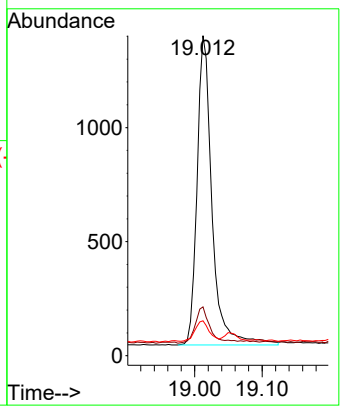


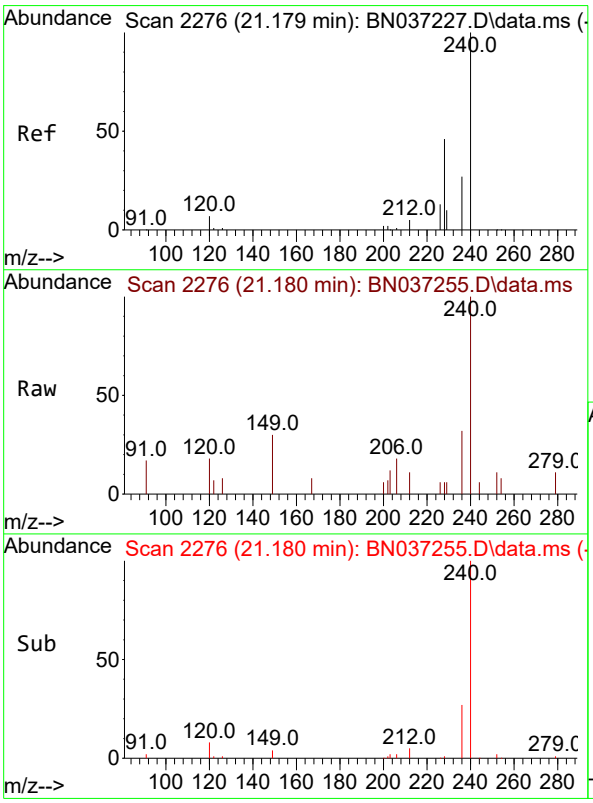
#27
Fluoranthene-d10
Concen: 0.379 ng
RT: 19.012 min Scan# 1
Delta R.T. -0.004 min
Lab File: BN037255.D
Acq: 14 Jun 2025 08:58

Instrument :
BNA_N
ClientSampleId :
DUP01-20250610

Tgt Ion:212 Resp: 2088

Ion	Ratio	Lower	Upper
212	100		
106	11.8	9.3	13.9
104	6.2	5.7	8.5

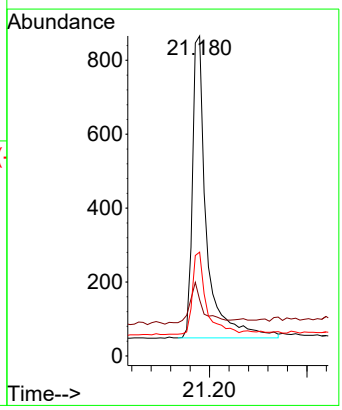


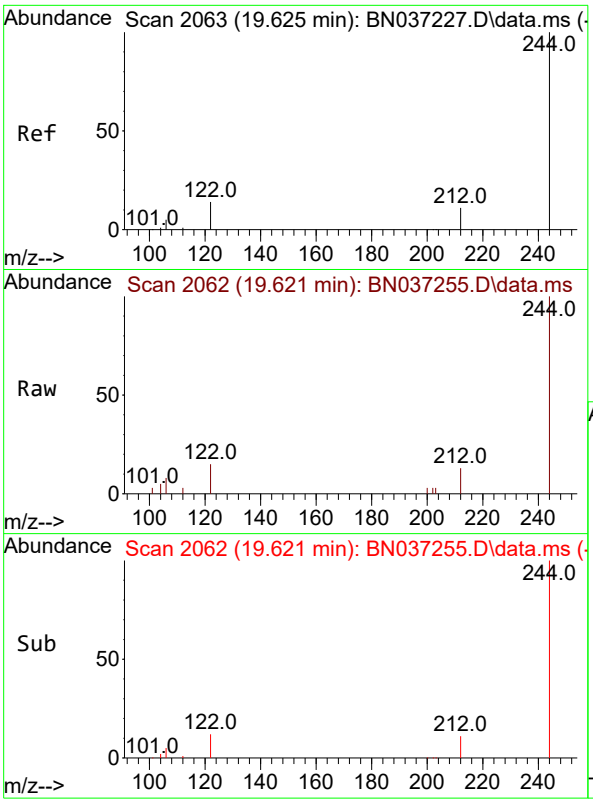


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.180 min Scan# 2276
Delta R.T. 0.000 min
Lab File: BN037255.D
Acq: 14 Jun 2025 08:58

Tgt Ion:240 Resp: 1643

Ion	Ratio	Lower	Upper
240	100		
120	17.6	11.3	16.9#
236	32.4	24.4	36.6



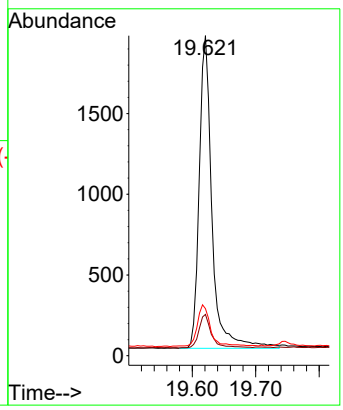


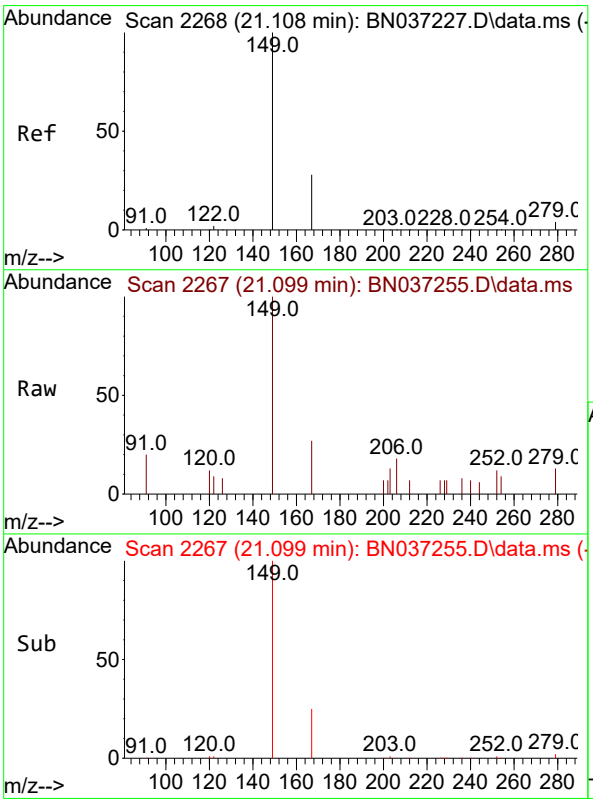
#31
Terphenyl-d14
Concen: 0.728 ng
RT: 19.621 min Scan# 2
Delta R.T. -0.004 min
Lab File: BN037255.D
Acq: 14 Jun 2025 08:58

Instrument :
BNA_N
ClientSampleId :
DUP01-20250610

Tgt Ion:244 Resp: 2703

Ion	Ratio	Lower	Upper
244	100		
212	12.9	12.2	18.2
122	14.7	14.3	21.5

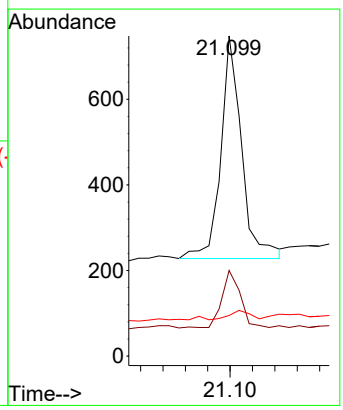


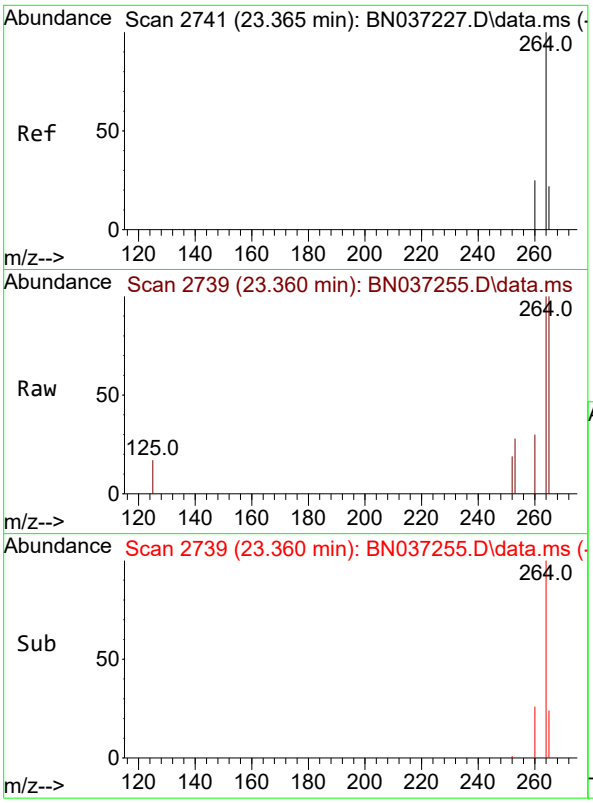


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.163 ng
RT: 21.099 min Scan# 2267
Delta R.T. -0.009 min
Lab File: BN037255.D
Acq: 14 Jun 2025 08:58

Tgt Ion:149 Resp: 674

Ion	Ratio	Lower	Upper
149	100		
167	22.1	21.3	31.9
279	4.0	3.3	4.9



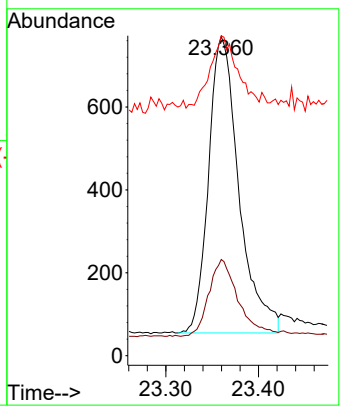


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.360 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN037255.D
Acq: 14 Jun 2025 08:58

Instrument :
BNA_N
ClientSampleId :
DUP01-20250610

Tgt Ion:264 Resp: 1624

Ion	Ratio	Lower	Upper
264	100		
260	30.1	22.8	34.2
265	100.3	66.4	99.6#



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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/10/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/11/25
Client Sample ID:	RE131D2-20250610	SDG No.:	Q2299
Lab Sample ID:	Q2299-13	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037256.D	1	06/13/25 08:03	06/14/25 09:34	PB168458

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	10.2	E	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.33		30 - 150		82%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.39		30 - 150		96%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.30		55 - 111		75%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.35		53 - 106		86%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.45		58 - 132		112%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1020	7.575				
1146-65-2	Naphthalene-d8	2390	10.362				
15067-26-2	Acenaphthene-d10	1300	14.224				
1517-22-2	Phenanthrene-d10	2220	16.971				
1719-03-5	Chrysene-d12	1840	21.18				
1520-96-3	Perylene-d12	1820	23.363				

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_N\Data\BN061325\
Data File : BN037256.D
Acq On : 14 Jun 2025 09:34
Operator : RC/JU
Sample : Q2299-13
Misc :
ALS Vial : 35 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE131D2-20250610

Quant Time: Jun 16 01:01:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration

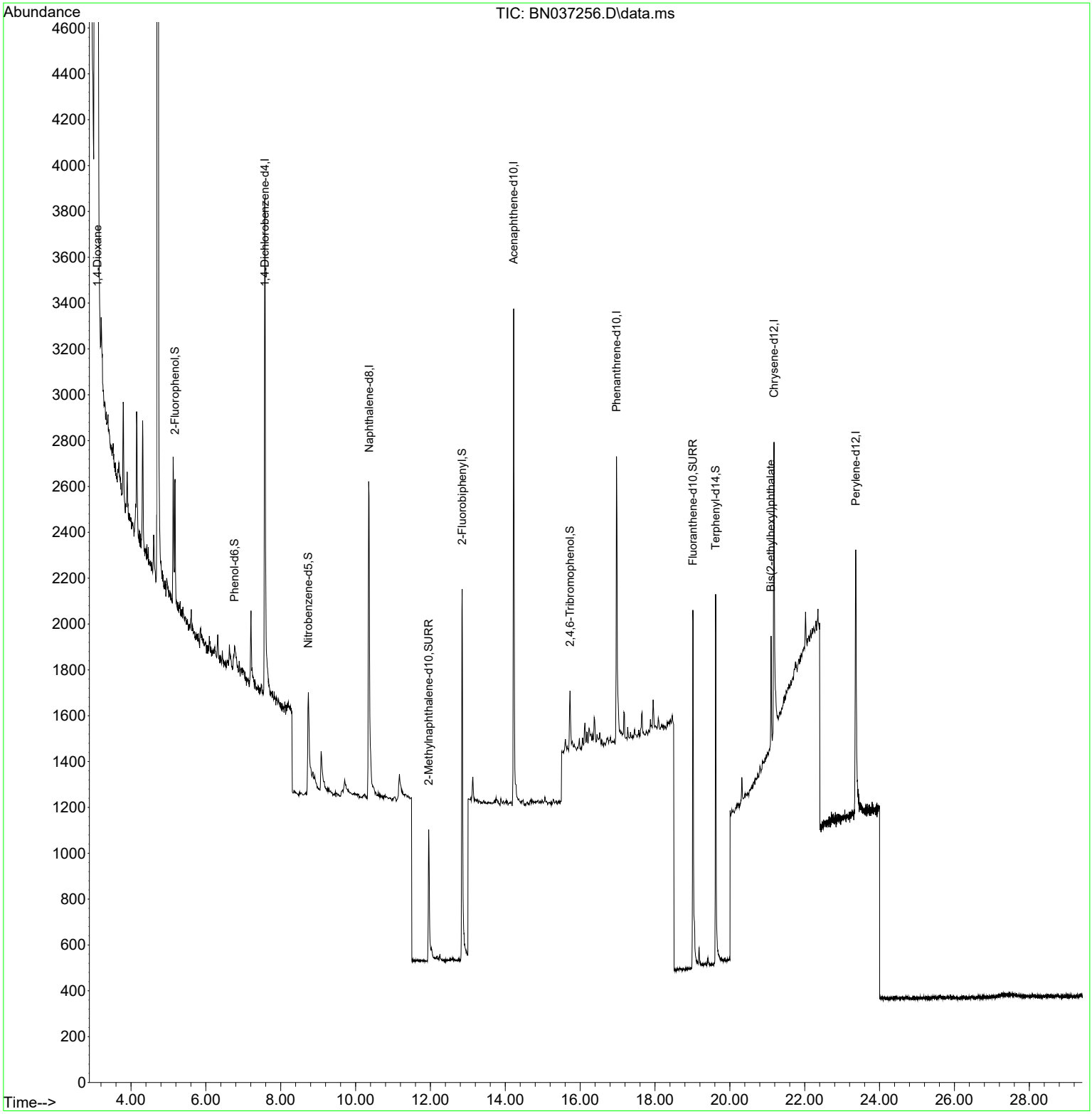
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	1021	0.400	ng	0.00
7) Naphthalene-d8	10.362	136	2392	0.400	ng	# 0.00
13) Acenaphthene-d10	14.224	164	1295	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	2221	0.400	ng	0.00
29) Chrysene-d12	21.180	240	1842	0.400	ng	0.00
35) Perylene-d12	23.363	264	1819	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	386	0.154	ng	0.00
5) Phenol-d6	6.766	99	172	0.065	ng	0.00
8) Nitrobenzene-d5	8.739	82	707	0.299	ng	0.01
11) 2-Methylnaphthalene-d10	11.955	152	1054	0.328	ng	0.00
14) 2,4,6-Tribromophenol	15.730	330	195	0.363	ng	0.00
15) 2-Fluorobiphenyl	12.848	172	1879	0.345	ng	0.00
27) Fluoranthene-d10	19.012	212	2238	0.385	ng	0.00
31) Terphenyl-d14	19.621	244	1868	0.449	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.104	88	14310	10.216	ng	94
34) Bis(2-ethylhexyl)phtha...	21.099	149	458	0.099	ng	# 96

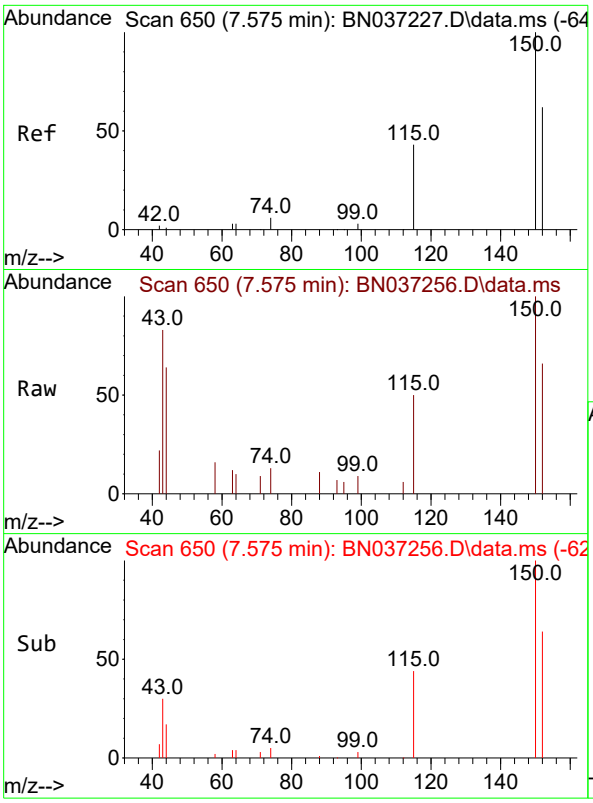
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037256.D
Acq On : 14 Jun 2025 09:34
Operator : RC/JU
Sample : Q2299-13
Misc :
ALS Vial : 35 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE131D2-20250610

Quant Time: Jun 16 01:01:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration



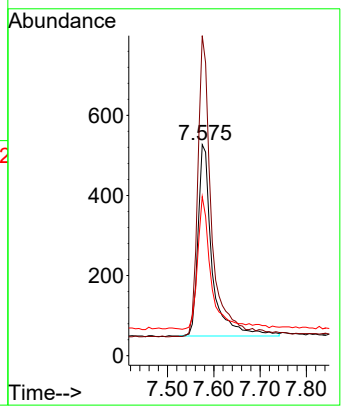


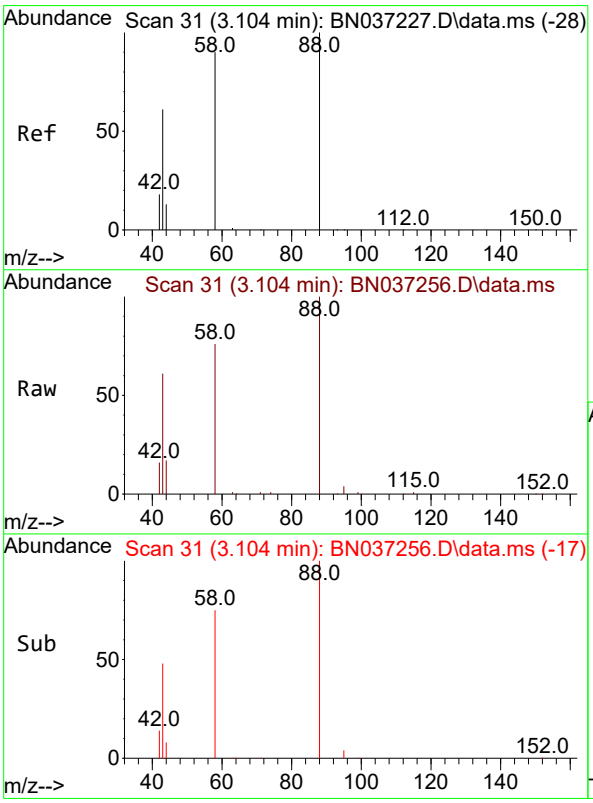
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN037256.D
Acq: 14 Jun 2025 09:34

Instrument :
BNA_N
ClientSampleId :
RE131D2-20250610

Tgt Ion:152 Resp: 1021

Ion	Ratio	Lower	Upper
152	100		
150	151.6	125.2	187.8
115	75.3	58.4	87.6

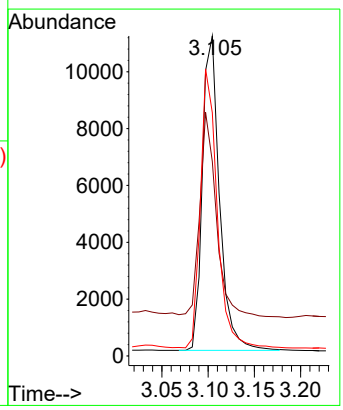


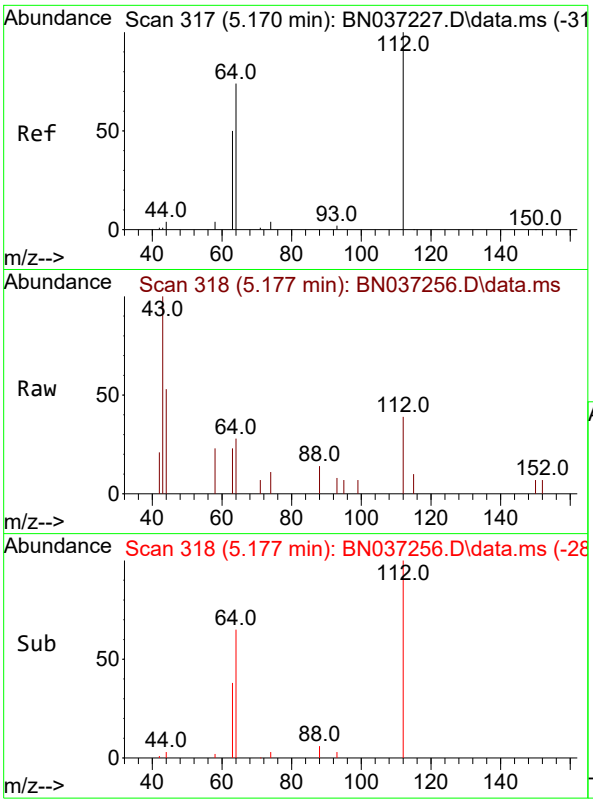


#2
1,4-Dioxane
Concen: 10.216 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037256.D
Acq: 14 Jun 2025 09:34

Tgt Ion: 88 Resp: 14310

Ion	Ratio	Lower	Upper
88	100		
43	62.1	52.6	79.0
58	86.0	73.5	110.3



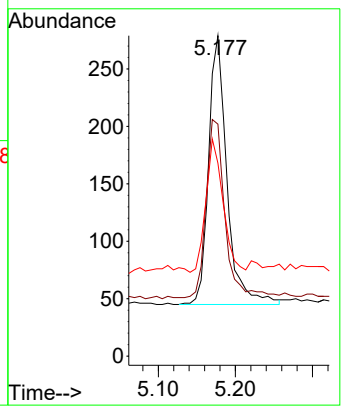


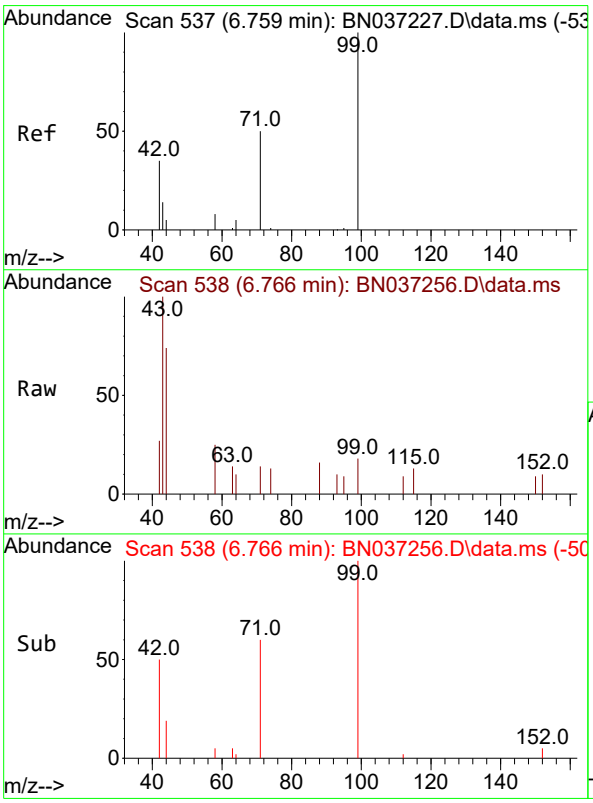
#4
2-Fluorophenol
Concen: 0.154 ng
RT: 5.177 min Scan# 31
Delta R.T. 0.007 min
Lab File: BN037256.D
Acq: 14 Jun 2025 09:34

Instrument :
BNA_N
ClientSampleId :
RE131D2-20250610

Tgt Ion:112 Resp: 386

Ion	Ratio	Lower	Upper
112	100		
64	67.9	57.2	85.8
63	45.9	39.8	59.6

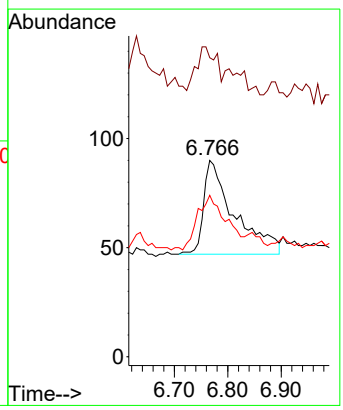


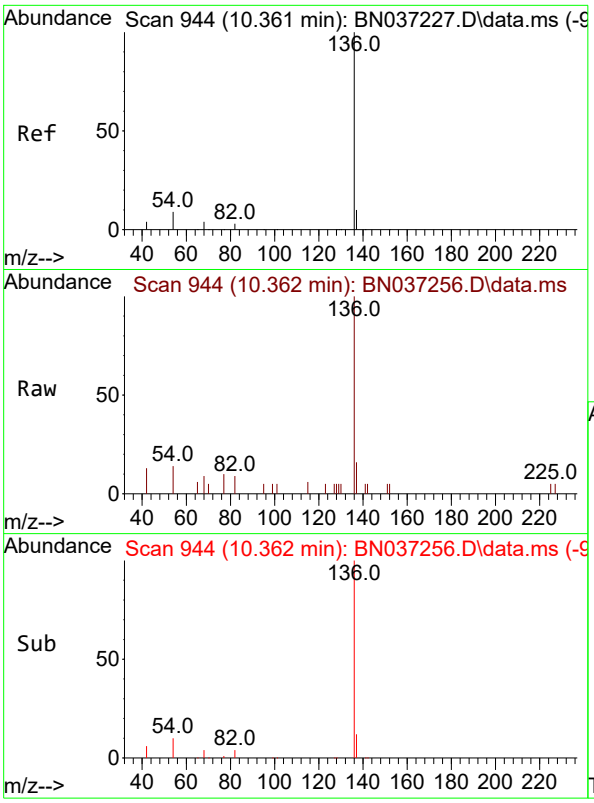


#5
Phenol-d6
Concen: 0.065 ng
RT: 6.766 min Scan# 538
Delta R.T. 0.007 min
Lab File: BN037256.D
Acq: 14 Jun 2025 09:34

Tgt Ion: 99 Resp: 172

Ion	Ratio	Lower	Upper
99	100		
42	31.4	36.2	54.4#
71	55.2	42.4	63.6



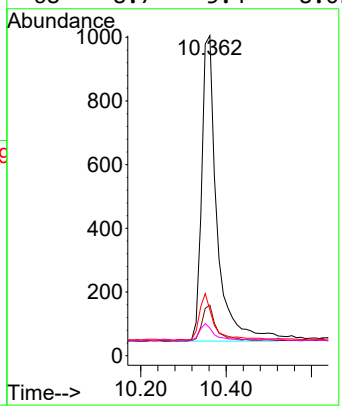


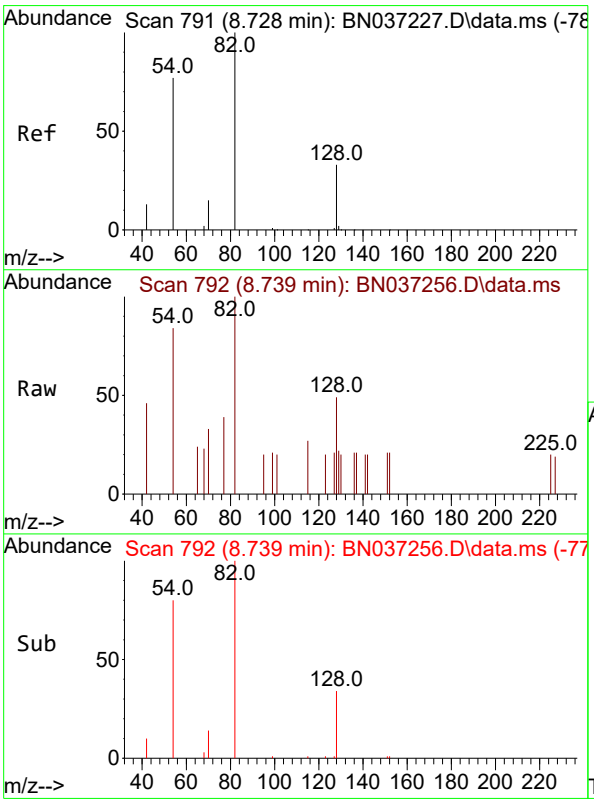
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.362 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037256.D
Acq: 14 Jun 2025 09:34

Instrument :
BNA_N
ClientSampleId :
RE131D2-20250610

Tgt Ion:136 Resp: 2392

Ion	Ratio	Lower	Upper
136	100		
137	15.8	10.6	15.8
54	14.3	9.2	13.8#
68	8.7	5.4	8.0#

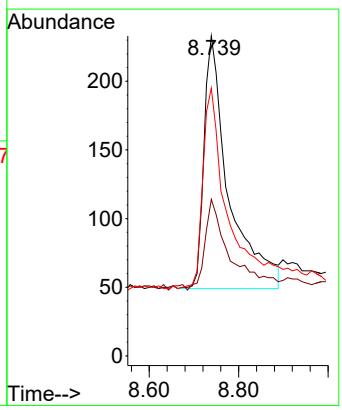


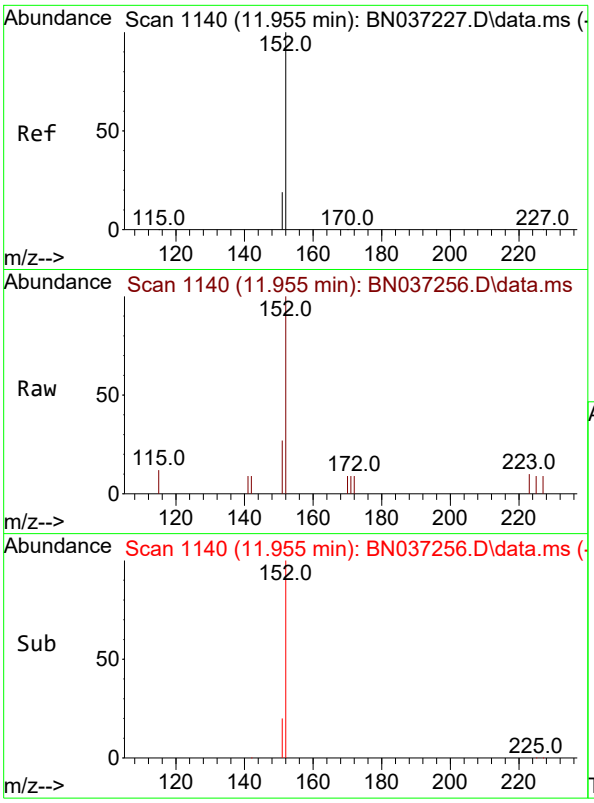


#8
Nitrobenzene-d5
Concen: 0.299 ng
RT: 8.739 min Scan# 792
Delta R.T. 0.011 min
Lab File: BN037256.D
Acq: 14 Jun 2025 09:34

Tgt Ion: 82 Resp: 707

Ion	Ratio	Lower	Upper
82	100		
128	48.9	31.2	46.8#
54	83.7	63.3	94.9



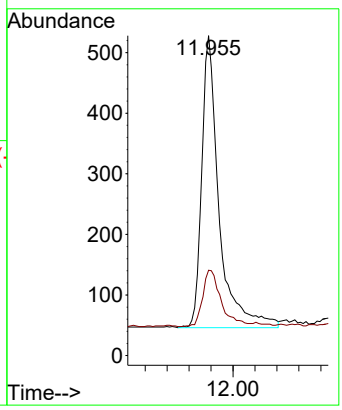


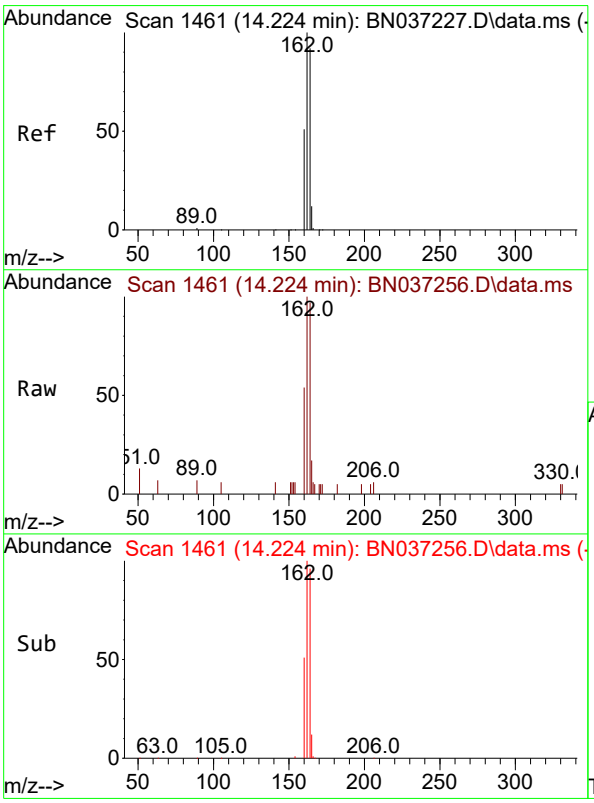
#11
2-Methylnaphthalene-d10
Concen: 0.328 ng
RT: 11.955 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN037256.D
Acq: 14 Jun 2025 09:34

Instrument :
BNA_N
ClientSampleId :
RE131D2-20250610

Tgt Ion:152 Resp: 1054

Ion	Ratio	Lower	Upper
152	100		
151	20.6	17.9	26.9

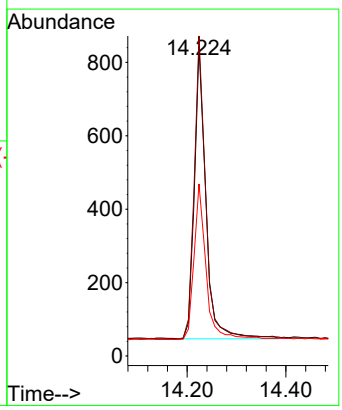


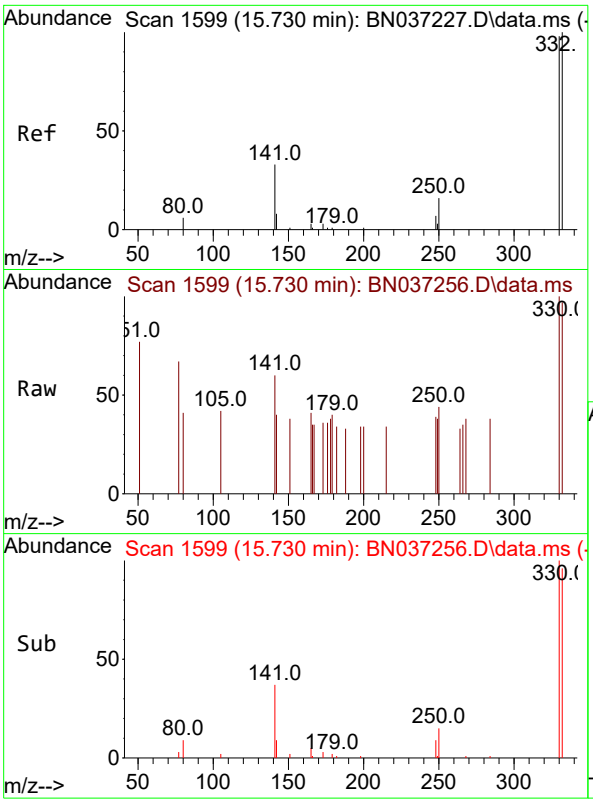


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BN037256.D
Acq: 14 Jun 2025 09:34

Tgt Ion:164 Resp: 1295

Ion	Ratio	Lower	Upper
164	100		
162	103.3	86.7	130.1
160	55.6	45.8	68.6



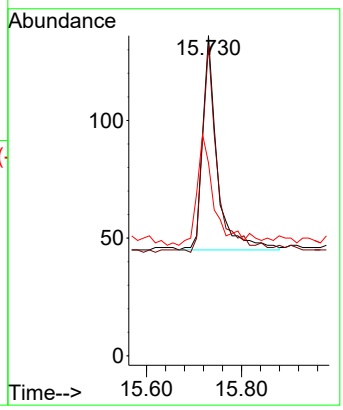


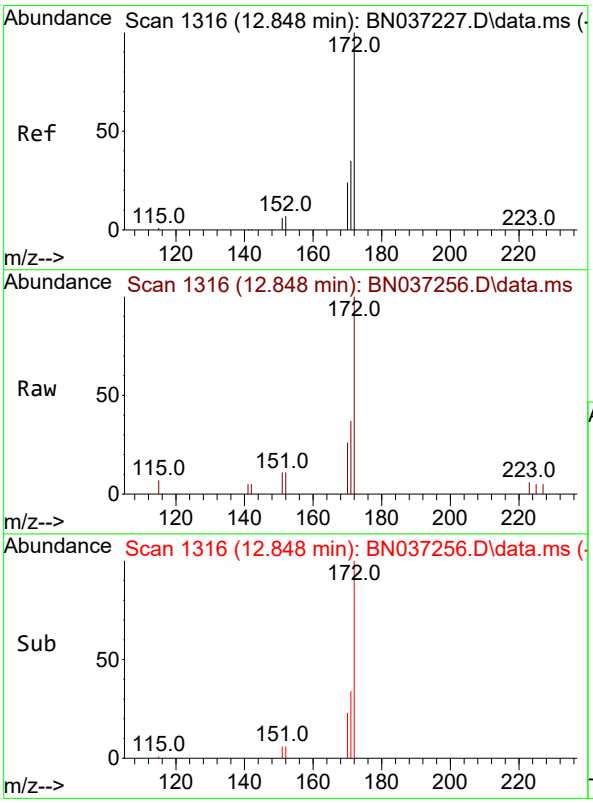
#14
2,4,6-Tribromophenol
Concen: 0.363 ng
RT: 15.730 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037256.D
Acq: 14 Jun 2025 09:34

Instrument :
BNA_N
ClientSampleId :
RE131D2-20250610

Tgt Ion:330 Resp: 195

Ion	Ratio	Lower	Upper
330	100		
332	93.3	74.9	112.3
141	62.1	45.1	67.7

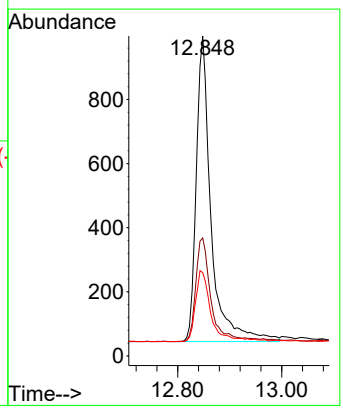


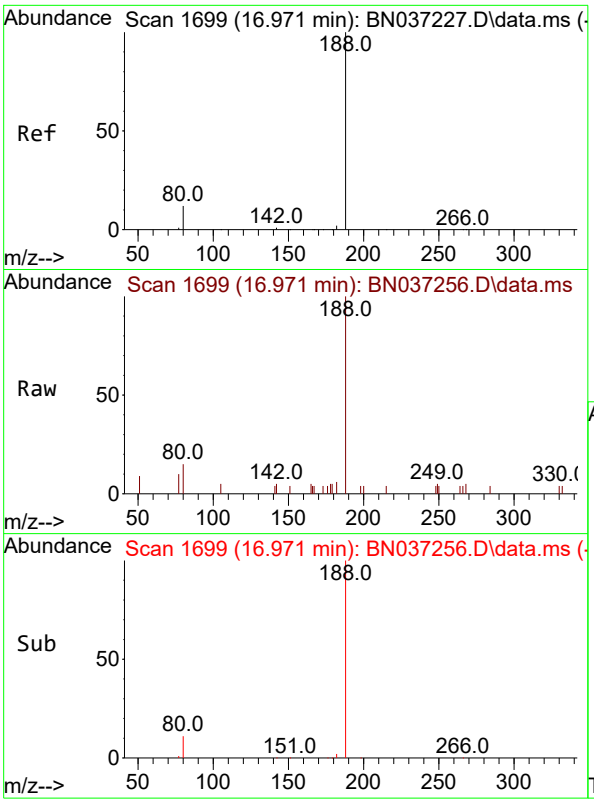


#15
2-Fluorobiphenyl
Concen: 0.345 ng
RT: 12.848 min Scan# 1316
Delta R.T. 0.000 min
Lab File: BN037256.D
Acq: 14 Jun 2025 09:34

Tgt Ion:172 Resp: 1879

Ion	Ratio	Lower	Upper
172	100		
171	36.9	29.8	44.8
170	26.1	21.1	31.7



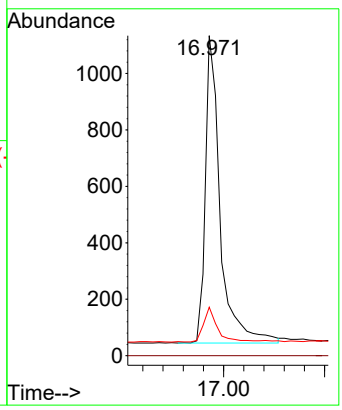


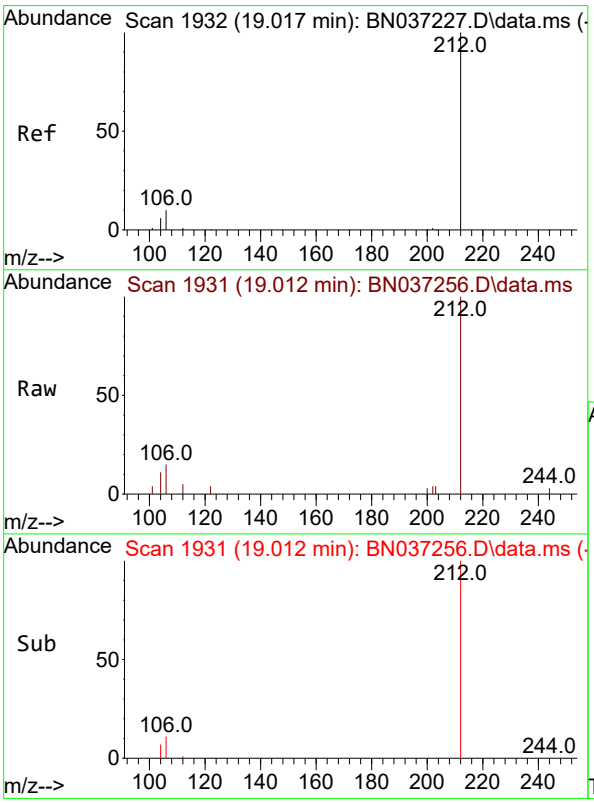
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037256.D
Acq: 14 Jun 2025 09:34

Instrument :
BNA_N
ClientSampleId :
RE131D2-20250610

Tgt Ion:188 Resp: 2221

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	15.2	12.2	18.4

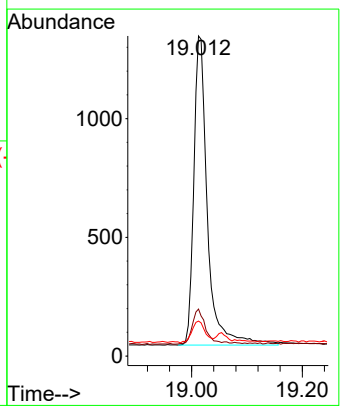


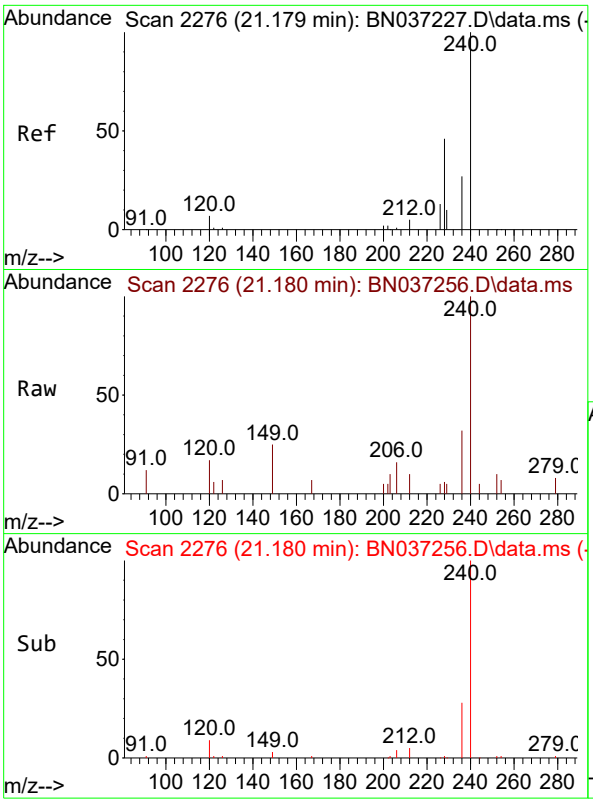


#27
Fluoranthene-d10
Concen: 0.385 ng
RT: 19.012 min Scan# 1931
Delta R.T. -0.004 min
Lab File: BN037256.D
Acq: 14 Jun 2025 09:34

Tgt Ion:212 Resp: 2238

Ion	Ratio	Lower	Upper
212	100		
106	10.7	9.3	13.9
104	6.9	5.7	8.5



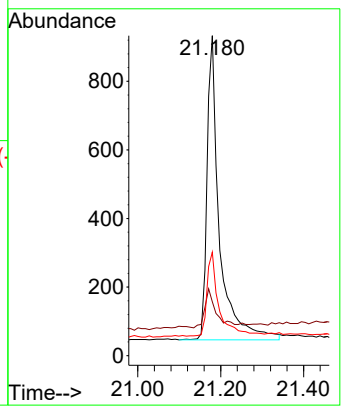


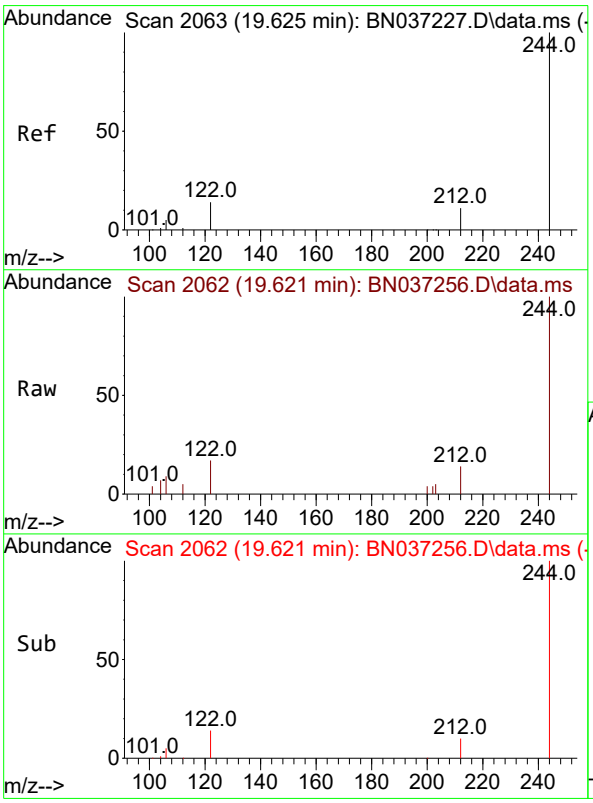
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.180 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037256.D
Acq: 14 Jun 2025 09:34

Instrument :
BNA_N
ClientSampleId :
RE131D2-20250610

Tgt Ion:240 Resp: 1842

Ion	Ratio	Lower	Upper
240	100		
120	16.8	11.3	16.9
236	32.4	24.4	36.6

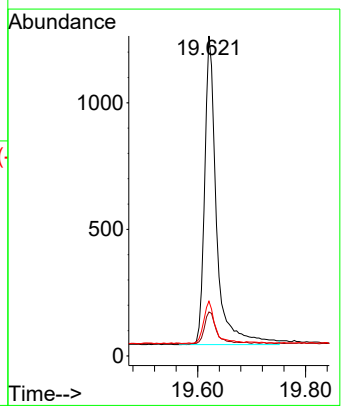


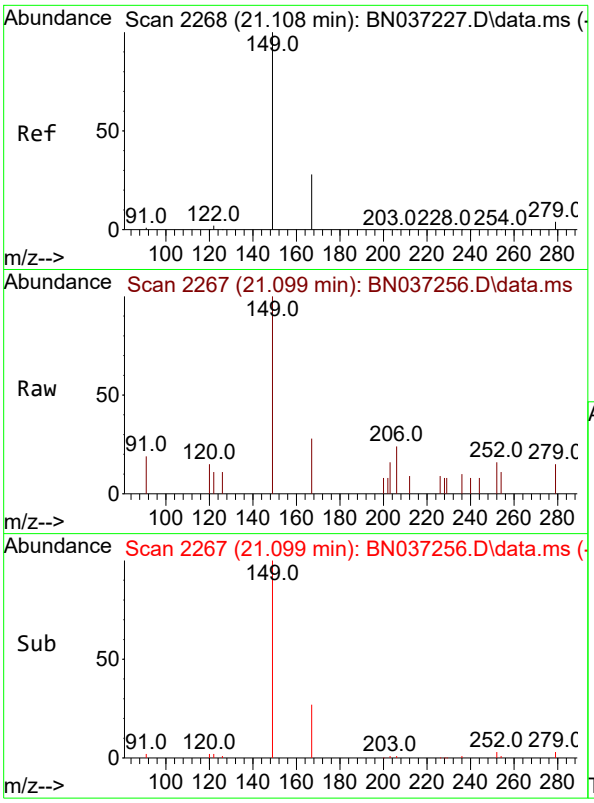


#31
Terphenyl-d14
Concen: 0.449 ng
RT: 19.621 min Scan# 2062
Delta R.T. -0.004 min
Lab File: BN037256.D
Acq: 14 Jun 2025 09:34

Tgt Ion:244 Resp: 1868

Ion	Ratio	Lower	Upper
244	100		
212	13.8	12.2	18.2
122	17.1	14.3	21.5



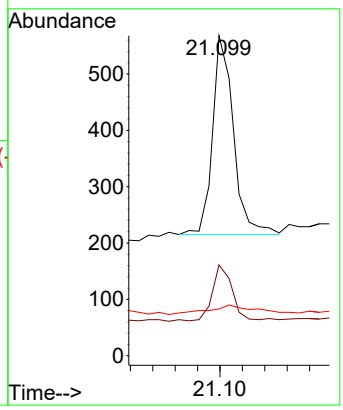


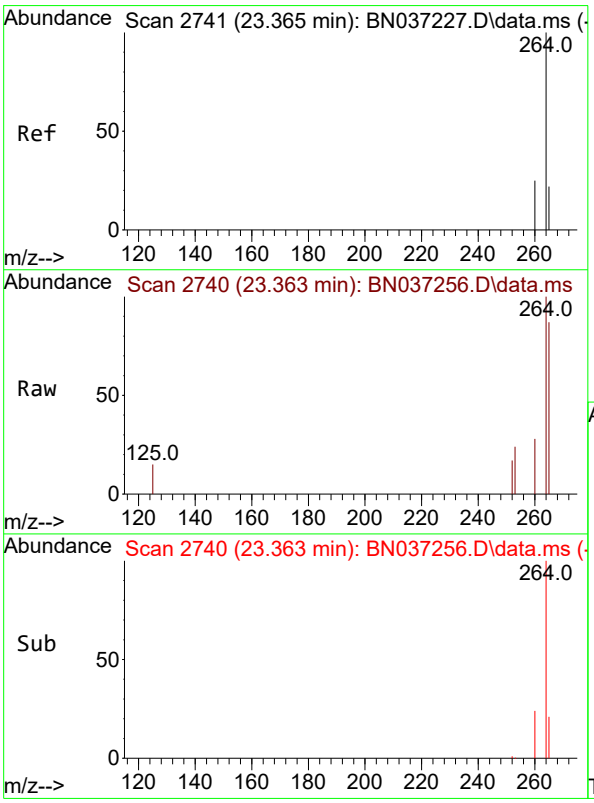
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.099 ng
RT: 21.099 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037256.D
Acq: 14 Jun 2025 09:34

Instrument :
BNA_N
ClientSampleId :
RE131D2-20250610

Tgt Ion:149 Resp: 458

Ion	Ratio	Lower	Upper
149	100		
167	27.3	21.3	31.9
279	11.6	3.3	4.9#

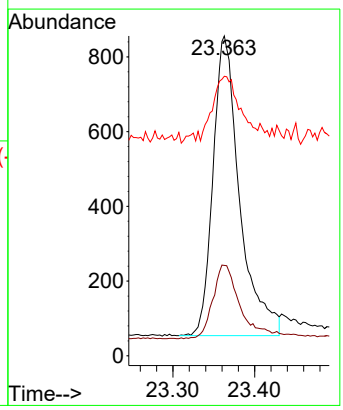




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.363 min Scan# 2740
Delta R.T. -0.003 min
Lab File: BN037256.D
Acq: 14 Jun 2025 09:34

Tgt Ion:264 Resp: 1819

Ion	Ratio	Lower	Upper
264	100		
260	28.3	22.8	34.2
265	87.4	66.4	99.6



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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/10/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/11/25
Client Sample ID:	RE131D2-20250610DL	SDG No.:	Q2299
Lab Sample ID:	Q2299-13DL	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037287.D	5	06/13/25 08:03	06/16/25 12:15	PB168458

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	13.2	D	0.33	1.00	1.00	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.38		30 - 150		94%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.49		30 - 150		123%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.27		55 - 111		68%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.39		53 - 106		96%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.61	*	58 - 132		151%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	771	7.582				
1146-65-2	Naphthalene-d8	1900	10.362				
15067-26-2	Acenaphthene-d10	1100	14.224				
1517-22-2	Phenanthrene-d10	1810	16.984				
1719-03-5	Chrysene-d12	1370	21.18				
1520-96-3	Perylene-d12	1300	23.366				

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_N\Data\BN061625\
Data File : BN037287.D
Acq On : 16 Jun 2025 12:15
Operator : RC/JU
Sample : Q2299-13DL 5X
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE131D2-20250610DL

Quant Time: Jun 16 12:41:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration

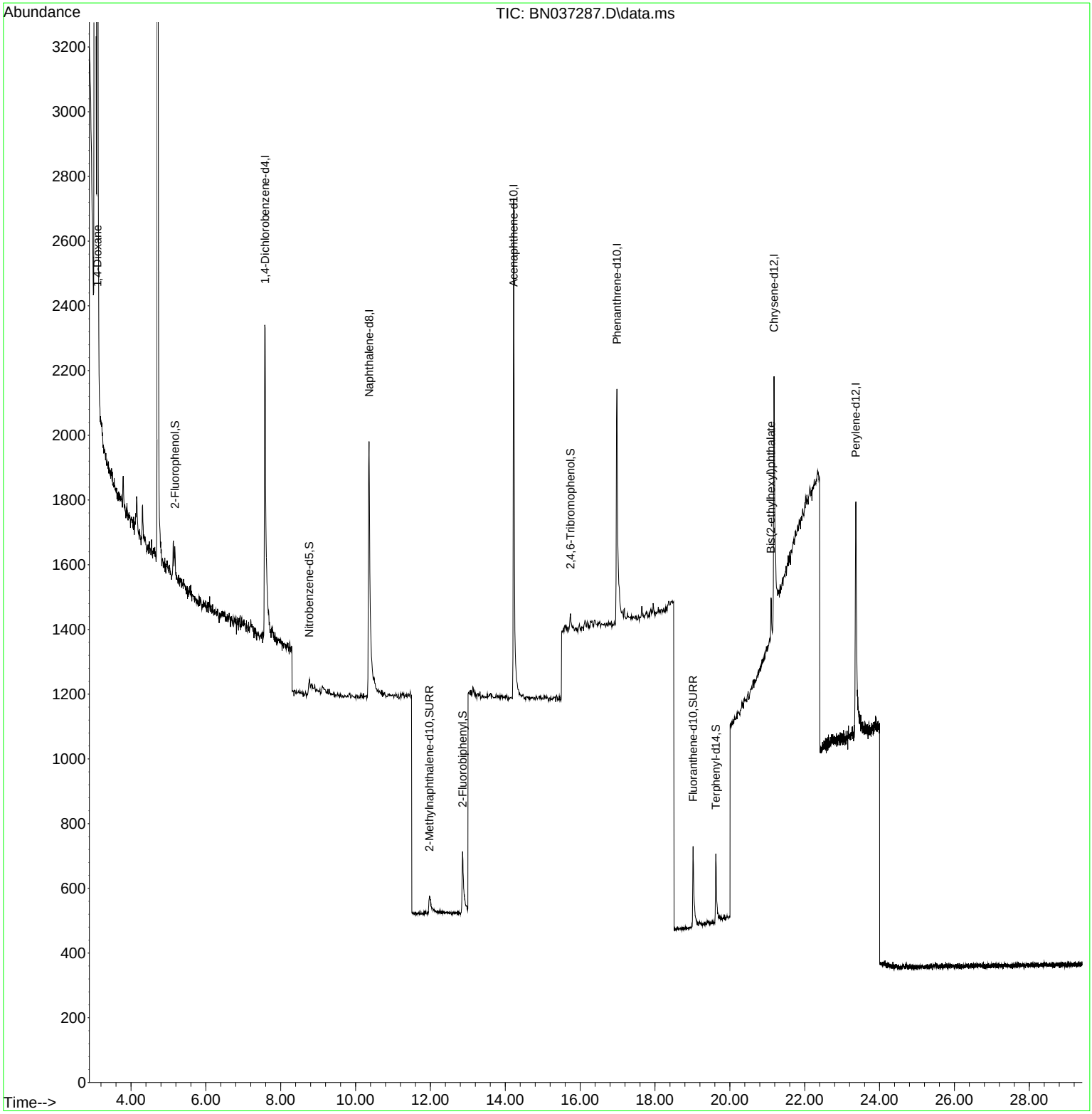
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.582	152	771	0.400	ng	0.00
7) Naphthalene-d8	10.362	136	1898	0.400	ng	# 0.00
13) Acenaphthene-d10	14.224	164	1101	0.400	ng	0.00
19) Phenanthrene-d10	16.984	188	1810	0.400	ng	0.01
29) Chrysene-d12	21.180	240	1371	0.400	ng	# 0.00
35) Perylene-d12	23.366	264	1300	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	79	0.042	ng	0.00
5) Phenol-d6	0.000	99	0d	0.000	ng	
8) Nitrobenzene-d5	8.760	82	102	0.054	ng	0.03
11) 2-Methylnaphthalene-d10	11.976	152	192	0.075	ng	0.02
14) 2,4,6-Tribromophenol	15.743	330	33	0.072	ng	0.01
15) 2-Fluorobiphenyl	12.858	172	357	0.077	ng	0.01
27) Fluoranthene-d10	19.017	212	463	0.098	ng	0.00
31) Terphenyl-d14	19.625	244	376	0.121	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.104	88	2793	2.640	ng	95
34) Bis(2-ethylhexyl)phtha...	21.099	149	141	0.041	ng	# 96

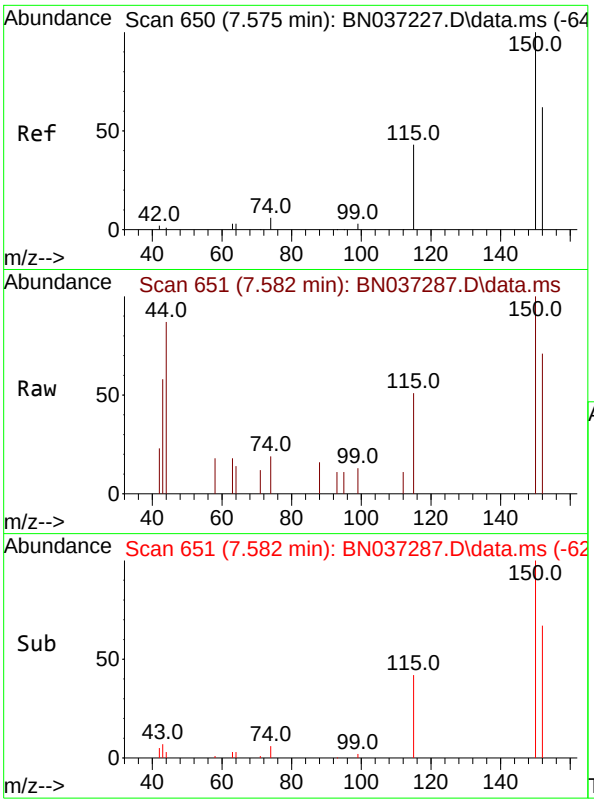
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061625\
Data File : BN037287.D
Acq On : 16 Jun 2025 12:15
Operator : RC/JU
Sample : Q2299-13DL 5X
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE131D2-20250610DL

Quant Time: Jun 16 12:41:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration



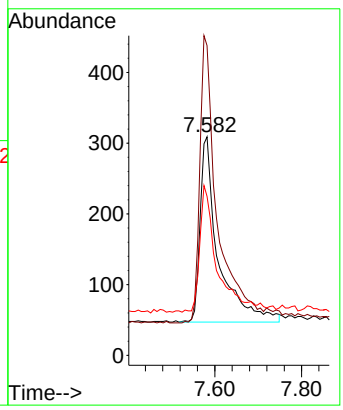


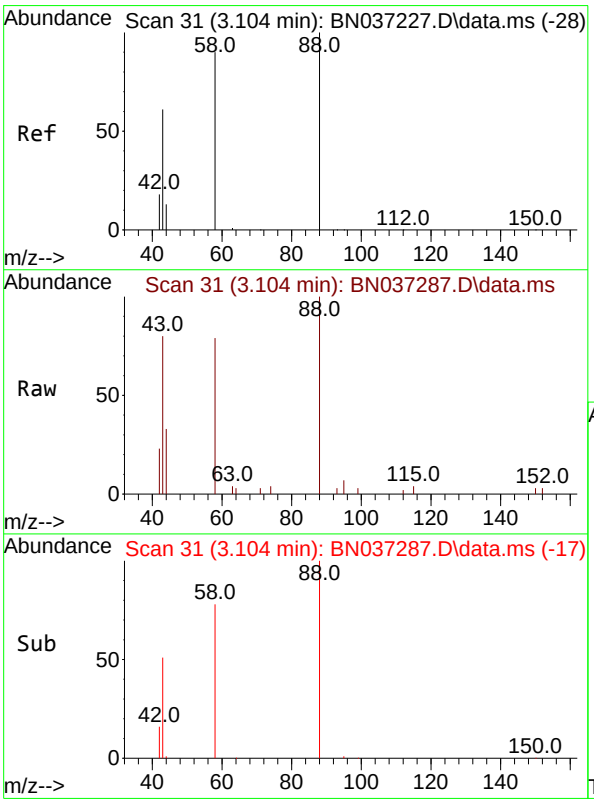
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.582 min Scan# 6
Delta R.T. 0.007 min
Lab File: BN037287.D
Acq: 16 Jun 2025 12:15

Instrument :
BNA_N
ClientSampleId :
RE131D2-20250610DL

Tgt Ion:152 Resp: 771

Ion	Ratio	Lower	Upper
152	100		
150	141.7	125.2	187.8
115	72.8	58.4	87.6

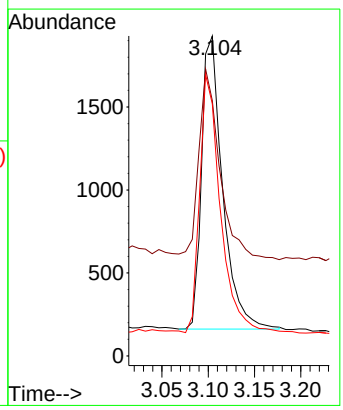


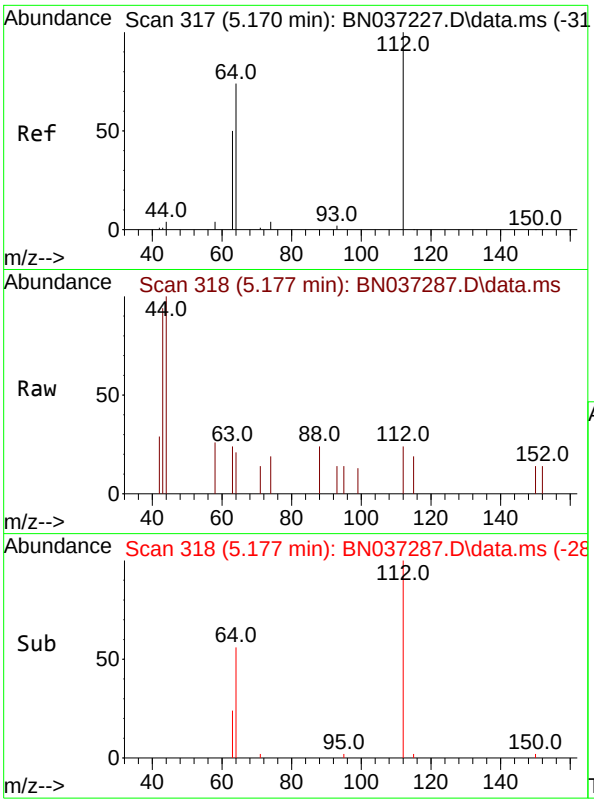


#2
1,4-Dioxane
Concen: 2.640 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037287.D
Acq: 16 Jun 2025 12:15

Tgt Ion: 88 Resp: 2793

Ion	Ratio	Lower	Upper
88	100		
43	65.3	52.6	79.0
58	84.9	73.5	110.3



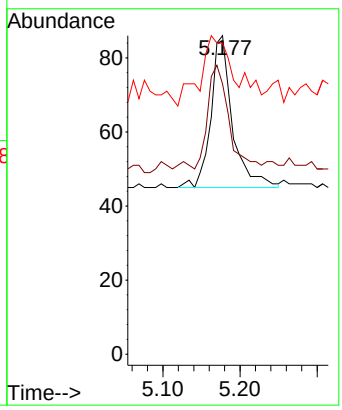


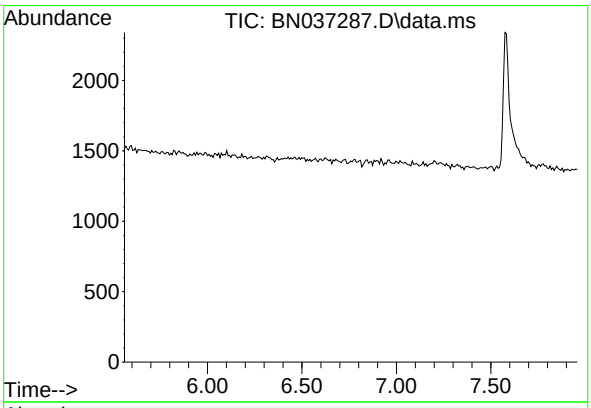
#4
2-Fluorophenol
Concen: 0.042 ng
RT: 5.177 min Scan# 3
Delta R.T. 0.007 min
Lab File: BN037287.D
Acq: 16 Jun 2025 12:15

Instrument :
BNA_N
ClientSampleId :
RE131D2-20250610DL

Tgt Ion:112 Resp: 79

Ion	Ratio	Lower	Upper
112	100		
64	65.8	57.2	85.8
63	62.0	39.8	59.6#



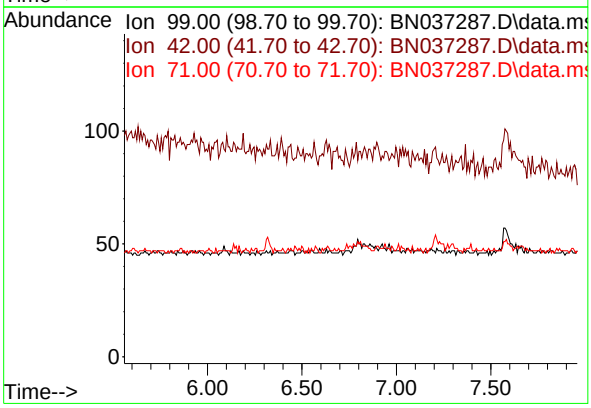


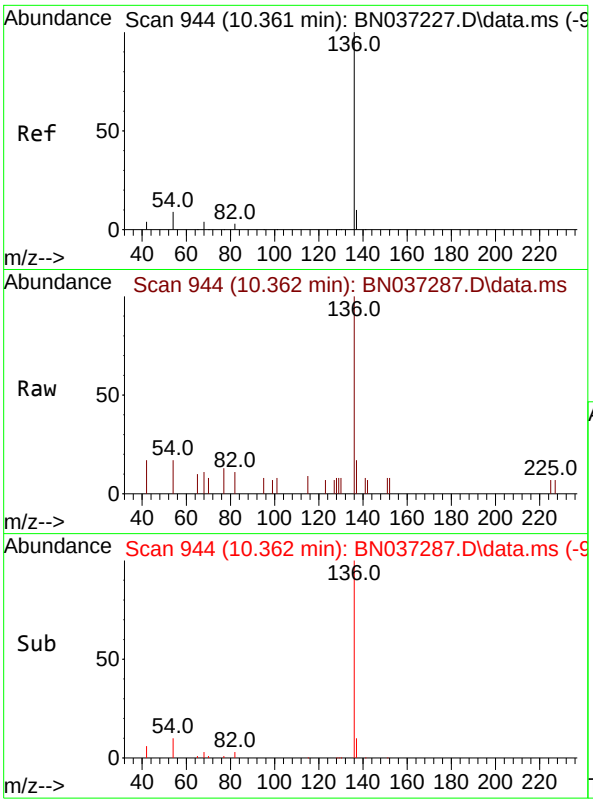
#5
Phenol-d6
Concen: 0.000 ng
Expected RT: 6.76 min

Lab File: BN037287.D
Acq: 16 Jun 2025 12:15

Tgt Ion: 99

Sig	Exp Ratio
99	100
42	45.3
71	53.0



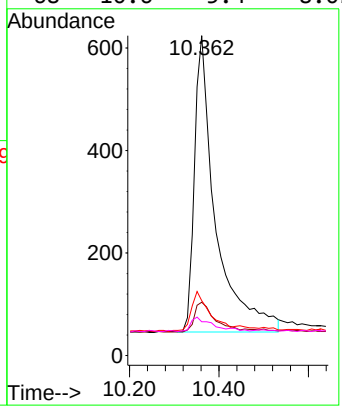


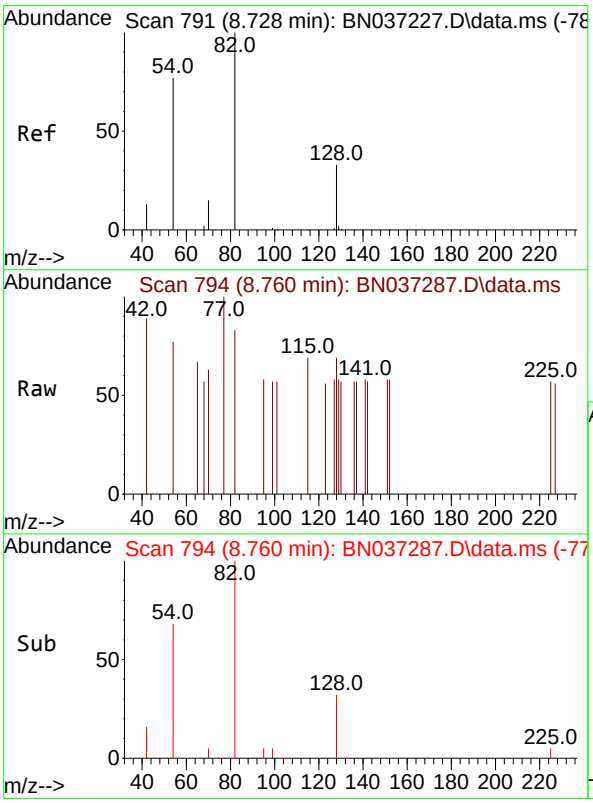
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.362 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037287.D
Acq: 16 Jun 2025 12:15

Instrument :
BNA_N
ClientSampleId :
RE131D2-20250610DL

Tgt Ion:136 Resp: 1898

Ion	Ratio	Lower	Upper
136	100		
137	16.7	10.6	15.8#
54	17.1	9.2	13.8#
68	10.6	5.4	8.0#

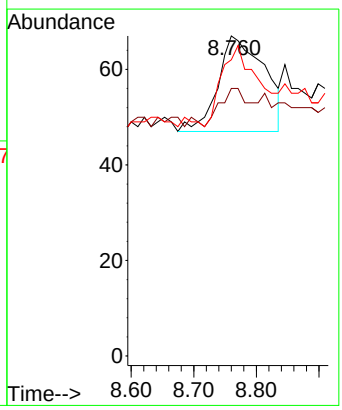


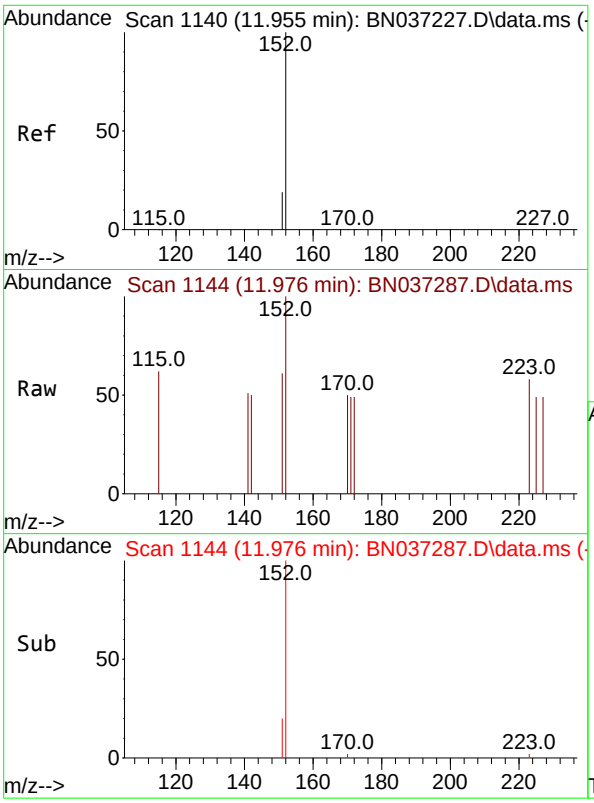


#8
Nitrobenzene-d5
Concen: 0.054 ng
RT: 8.760 min Scan# 794
Delta R.T. 0.032 min
Lab File: BN037287.D
Acq: 16 Jun 2025 12:15

Tgt Ion: 82 Resp: 102

Ion	Ratio	Lower	Upper
82	100		
128	83.6	31.2	46.8#
54	92.5	63.3	94.9



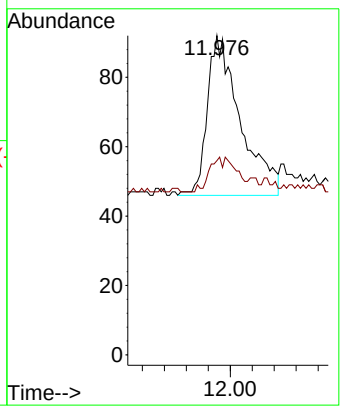


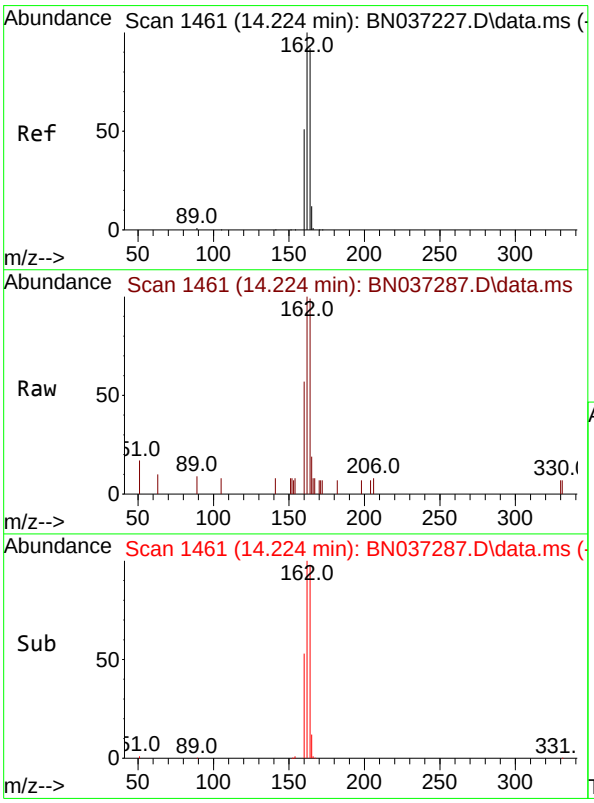
#11
2-Methylnaphthalene-d10
Concen: 0.075 ng
RT: 11.976 min Scan# 11
Delta R.T. 0.020 min
Lab File: BN037287.D
Acq: 16 Jun 2025 12:15

Instrument :
BNA_N
ClientSampleId :
RE131D2-20250610DL

Tgt Ion:152 Resp: 192

Ion	Ratio	Lower	Upper
152	100		
151	8.9	17.9	26.9#

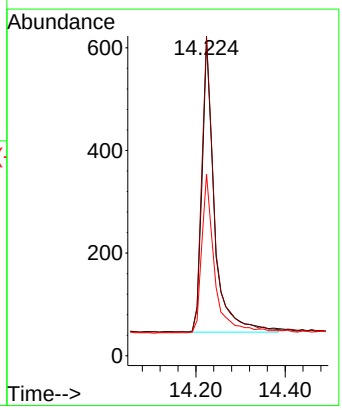


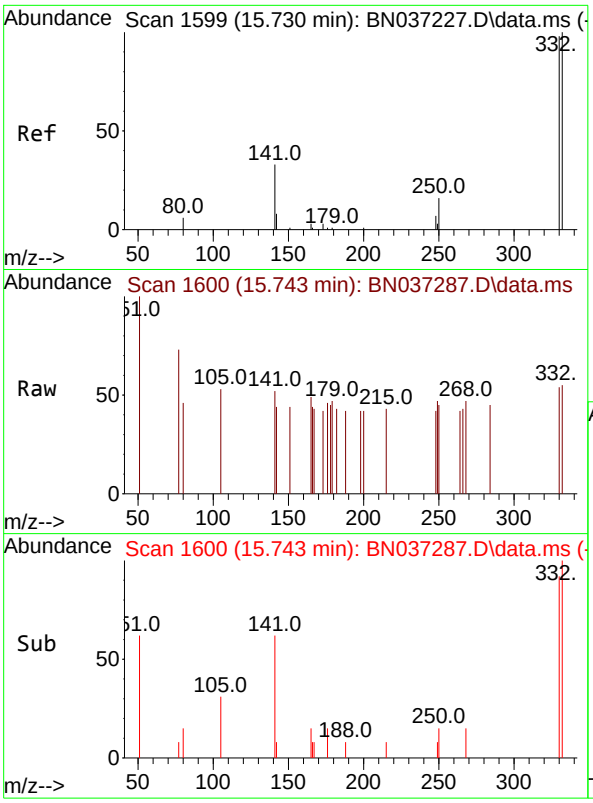


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BN037287.D
Acq: 16 Jun 2025 12:15

Tgt Ion:164 Resp: 1101

Ion	Ratio	Lower	Upper
164	100		
162	101.3	86.7	130.1
160	57.6	45.8	68.6



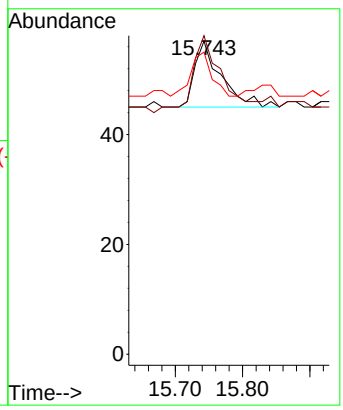


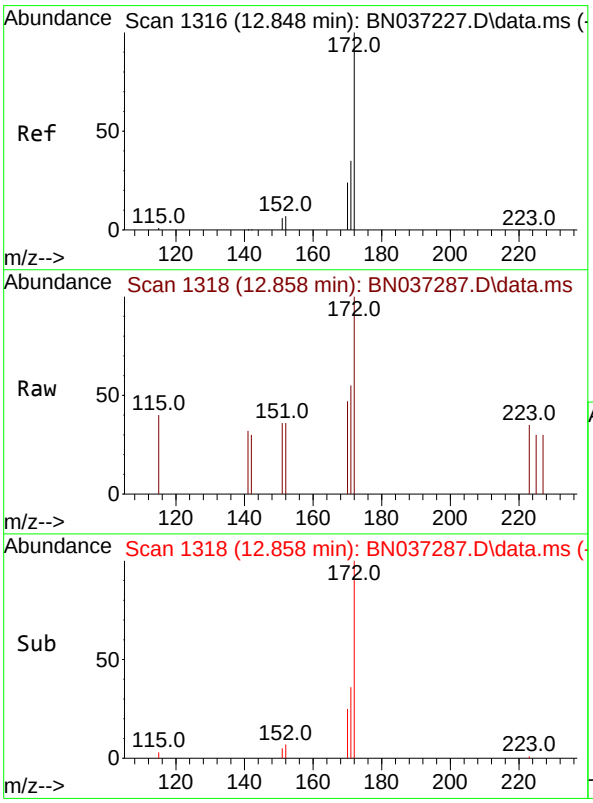
#14
2,4,6-Tribromophenol
Concen: 0.072 ng
RT: 15.743 min Scan# 1
Delta R.T. 0.013 min
Lab File: BN037287.D
Acq: 16 Jun 2025 12:15

Instrument :
BNA_N
ClientSampleId :
RE131D2-20250610DL

Tgt Ion:330 Resp: 33

Ion	Ratio	Lower	Upper
330	100		
332	127.3	74.9	112.3#
141	51.5	45.1	67.7

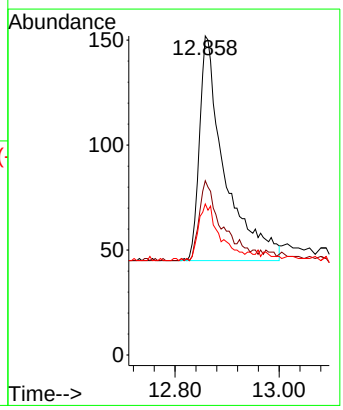


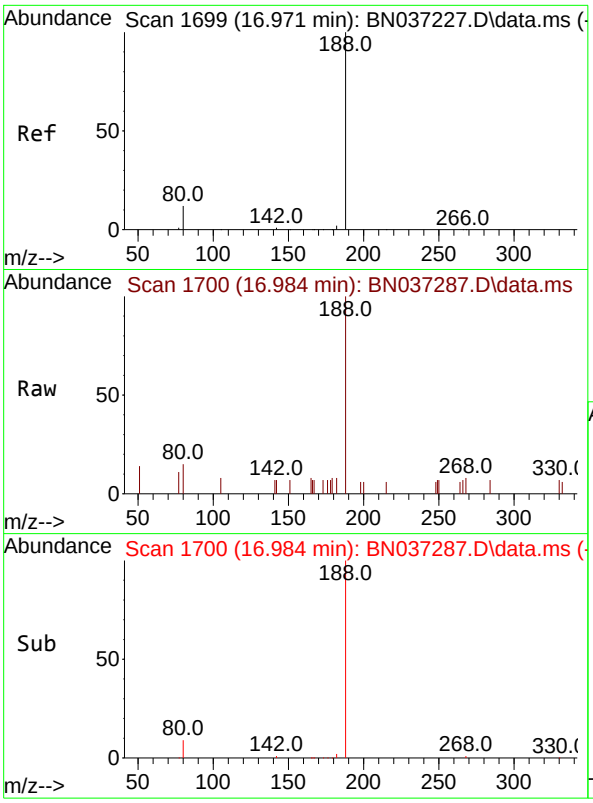


#15
2-Fluorobiphenyl
Concen: 0.077 ng
RT: 12.858 min Scan# 1318
Delta R.T. 0.010 min
Lab File: BN037287.D
Acq: 16 Jun 2025 12:15

Tgt Ion:172 Resp: 357

Ion	Ratio	Lower	Upper
172	100		
171	54.6	29.8	44.8#
170	47.4	21.1	31.7#



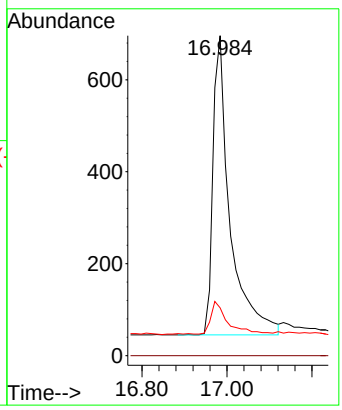


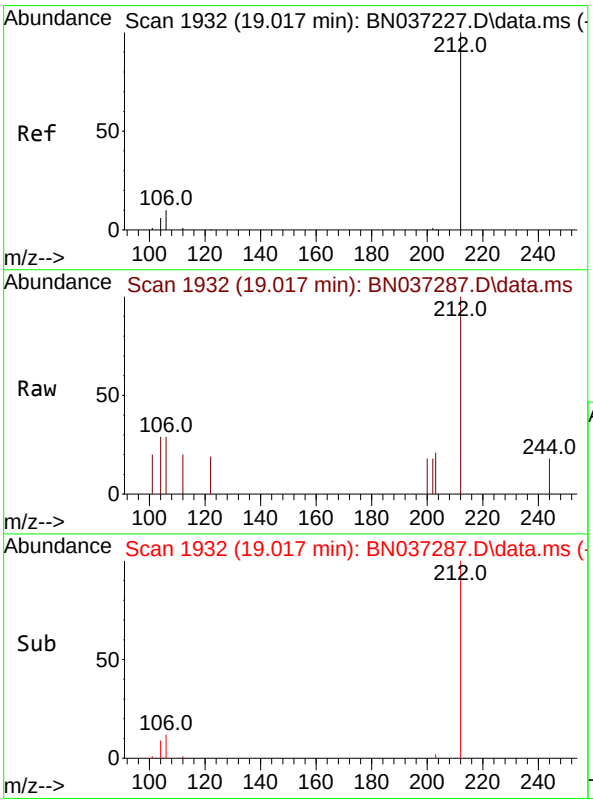
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.984 min Scan# 1
Delta R.T. 0.013 min
Lab File: BN037287.D
Acq: 16 Jun 2025 12:15

Instrument :
BNA_N
ClientSampleId :
RE131D2-20250610DL

Tgt Ion:188 Resp: 1810

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	14.9	12.2	18.4

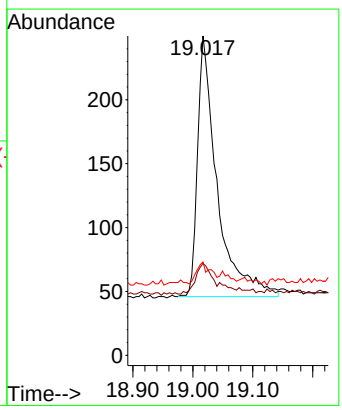


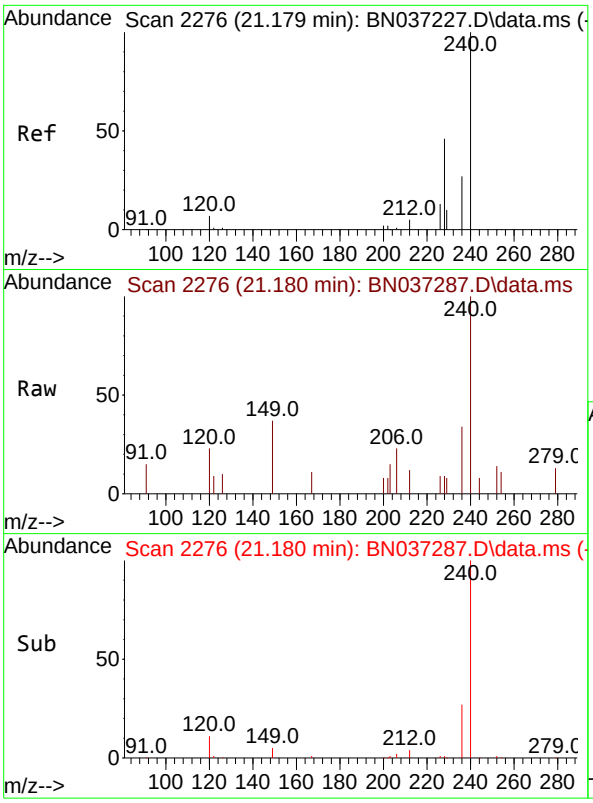


#27
Fluoranthene-d10
Concen: 0.098 ng
RT: 19.017 min Scan# 1932
Delta R.T. 0.000 min
Lab File: BN037287.D
Acq: 16 Jun 2025 12:15

Tgt Ion:212 Resp: 463

Ion	Ratio	Lower	Upper
212	100		
106	11.7	9.3	13.9
104	5.8	5.7	8.5



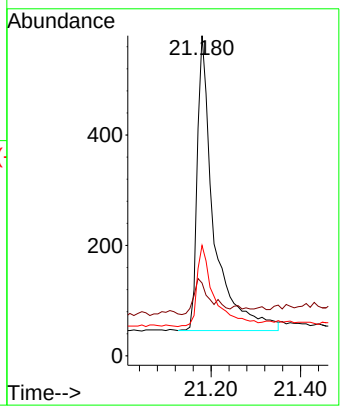


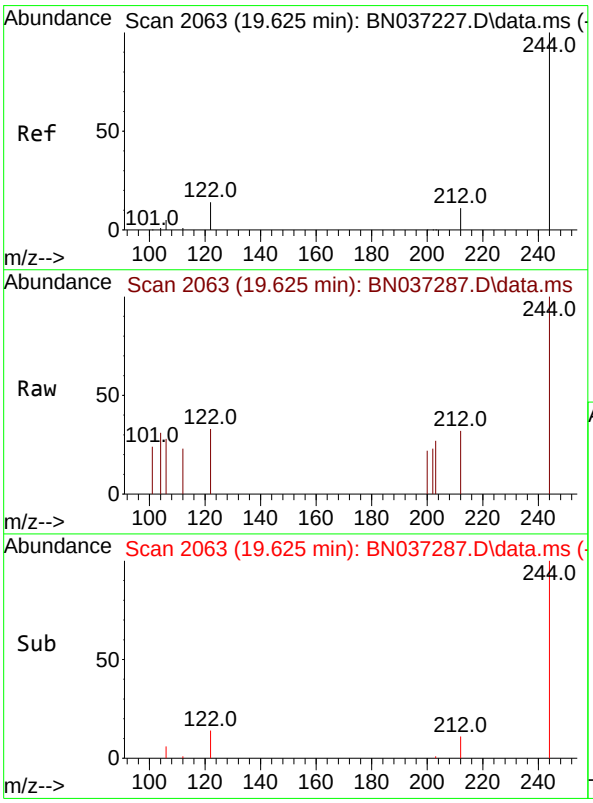
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.180 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037287.D
Acq: 16 Jun 2025 12:15

Instrument :
BNA_N
ClientSampleId :
RE131D2-20250610DL

Tgt Ion:240 Resp: 1371

Ion	Ratio	Lower	Upper
240	100		
120	22.8	11.3	16.9#
236	34.5	24.4	36.6

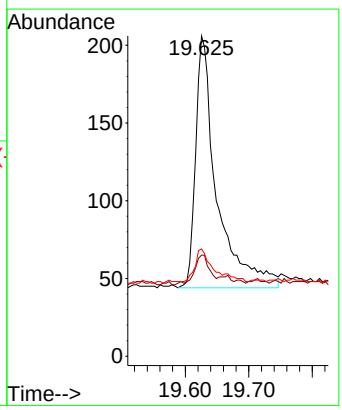


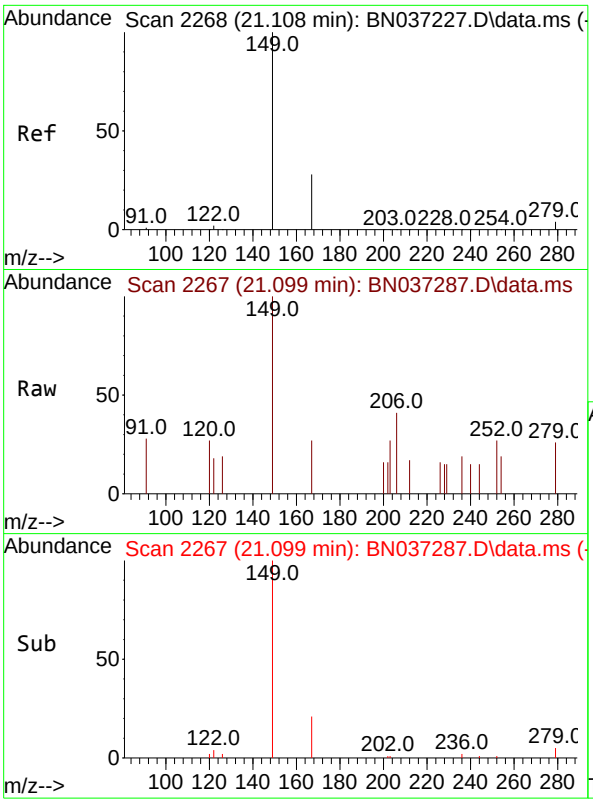


#31
Terphenyl-d14
Concen: 0.121 ng
RT: 19.625 min Scan# 2063
Delta R.T. 0.000 min
Lab File: BN037287.D
Acq: 16 Jun 2025 12:15

Tgt Ion:244 Resp: 376

Ion	Ratio	Lower	Upper
244	100		
212	31.6	12.2	18.2#
122	33.5	14.3	21.5#



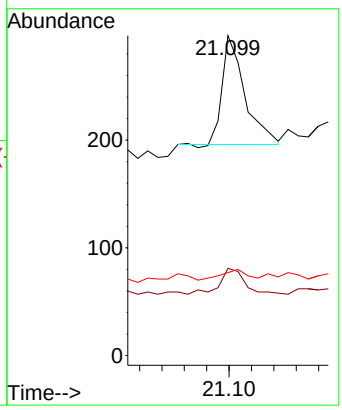


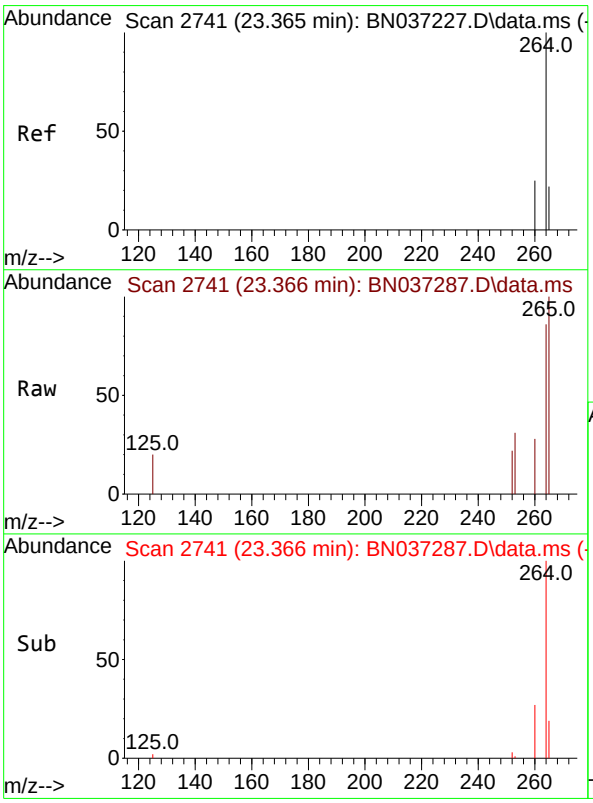
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.041 ng
RT: 21.099 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037287.D
Acq: 16 Jun 2025 12:15

Instrument :
BNA_N
ClientSampleId :
RE131D2-20250610DL

Tgt Ion:149 Resp: 141

Ion	Ratio	Lower	Upper
149	100		
167	26.2	21.3	31.9
279	11.3	3.3	4.9#

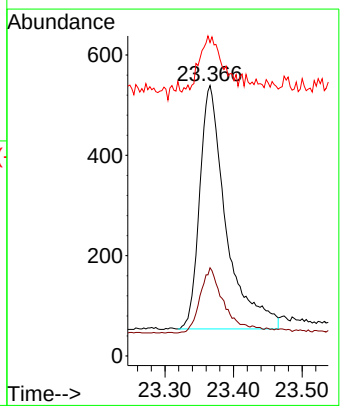




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.366 min Scan# 2741
Delta R.T. 0.000 min
Lab File: BN037287.D
Acq: 16 Jun 2025 12:15

Tgt Ion:264 Resp: 1300

Ion	Ratio	Lower	Upper
264	100		
260	32.7	22.8	34.2
265	116.0	66.4	99.6#



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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/10/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/11/25
Client Sample ID:	DUP02-20250610	SDG No.:	Q2299
Lab Sample ID:	Q2299-14	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037261.D	1	06/13/25 08:03	06/14/25 14:35	PB168458

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	8.40	E	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.27		30 - 150		68%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.35		30 - 150		88%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.26		55 - 111		64%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.28		53 - 106		71%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.85	*	58 - 132		212%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	856	7.575				
1146-65-2	Naphthalene-d8	2180	10.351				
15067-26-2	Acenaphthene-d10	1130	14.224				
1517-22-2	Phenanthrene-d10	2250	16.971				
1719-03-5	Chrysene-d12	1730	21.171				
1520-96-3	Perylene-d12	1720	23.36				

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_N\Data\BN061325\
Data File : BN037261.D
Acq On : 14 Jun 2025 14:35
Operator : RC/JU
Sample : Q2299-14
Misc :
ALS Vial : 40 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DUP02-20250610

Quant Time: Jun 16 02:43:06 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration

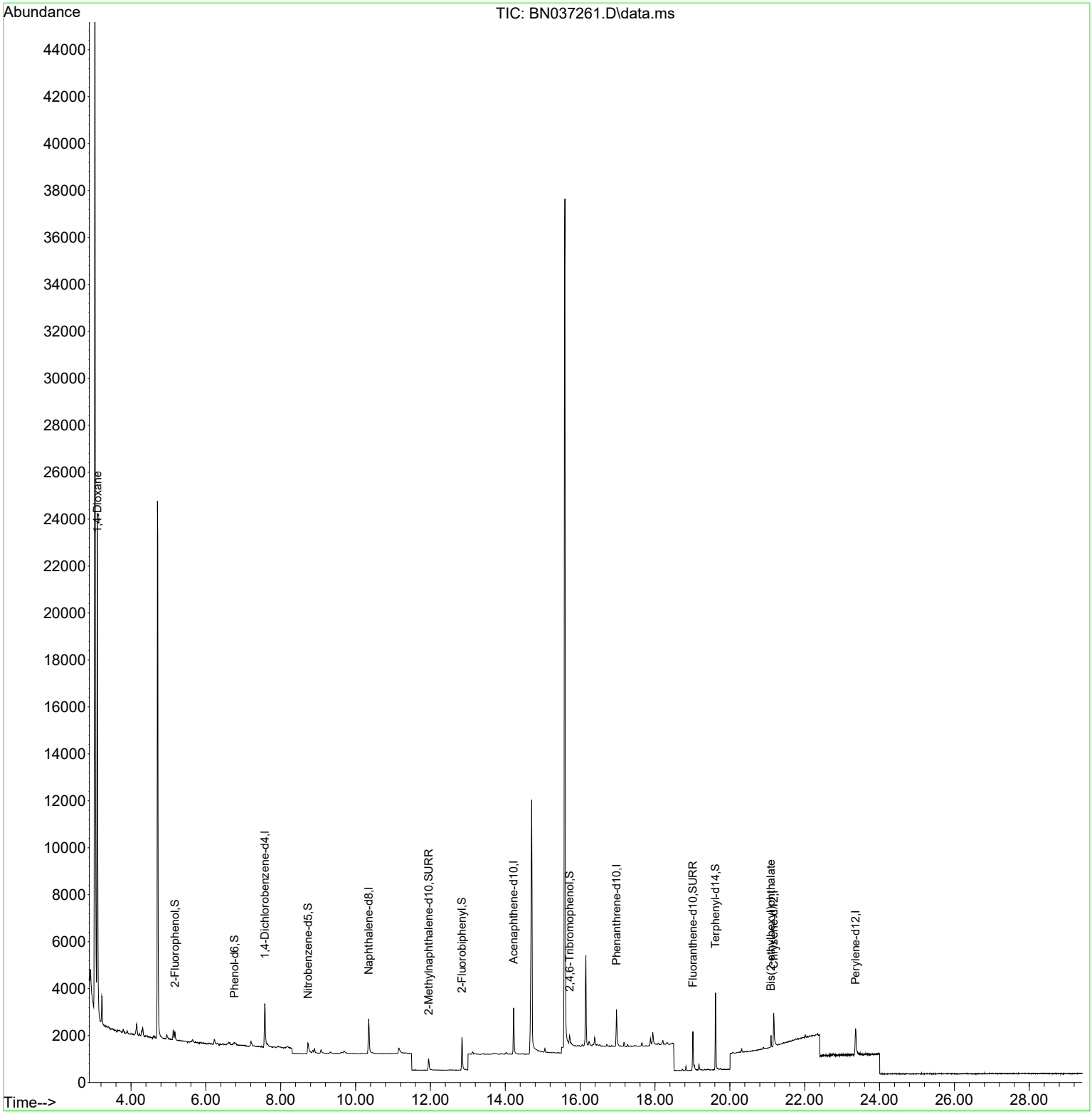
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	856	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	2177	0.400	ng	#-0.01
13) Acenaphthene-d10	14.224	164	1128	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	2247	0.400	ng	0.00
29) Chrysene-d12	21.171	240	1734	0.400	ng	# 0.00
35) Perylene-d12	23.360	264	1724	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	255	0.121	ng	0.00
5) Phenol-d6	6.766	99	127	0.057	ng	0.00
8) Nitrobenzene-d5	8.728	82	548	0.255	ng	0.00
11) 2-Methylnaphthalene-d10	11.950	152	801	0.274	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	197	0.420	ng	-0.01
15) 2-Fluorobiphenyl	12.843	172	1348	0.284	ng	0.00
27) Fluoranthene-d10	19.012	212	2074	0.353	ng	0.00
31) Terphenyl-d14	19.616	244	3320	0.847	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.104	88	9919	8.446	ng	96
34) Bis(2-ethylhexyl)phtha...	21.099	149	465	0.107	ng	99

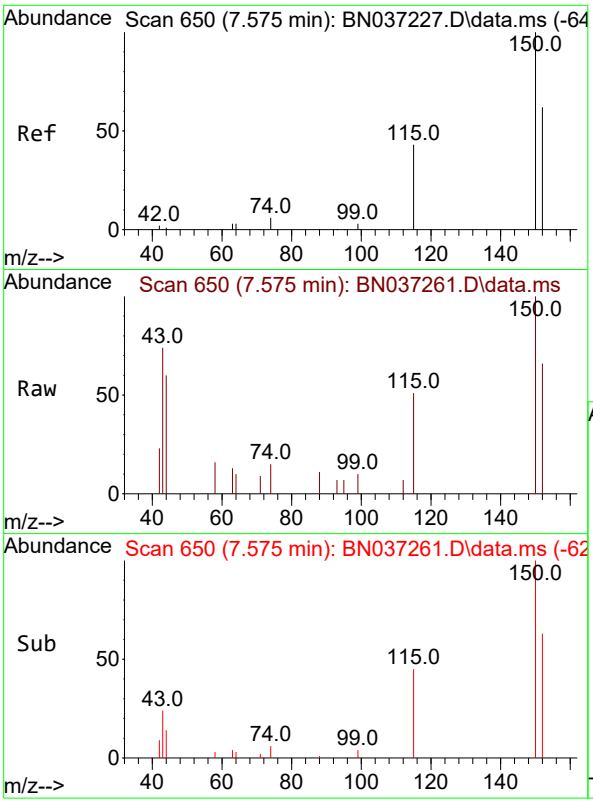
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037261.D
Acq On : 14 Jun 2025 14:35
Operator : RC/JU
Sample : Q2299-14
Misc :
ALS Vial : 40 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DUP02-20250610

Quant Time: Jun 16 02:43:06 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration



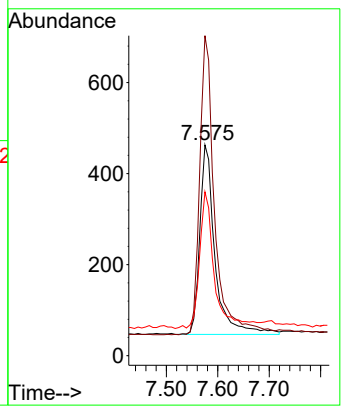


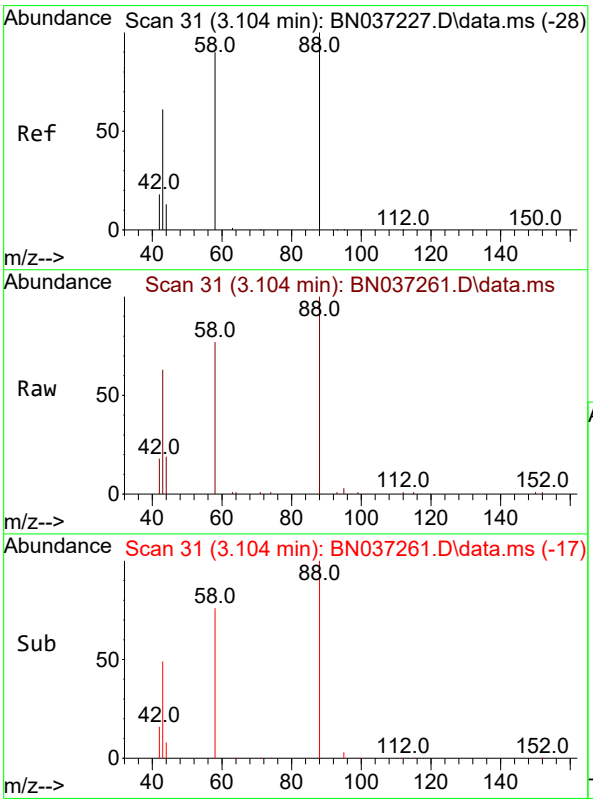
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN037261.D
Acq: 14 Jun 2025 14:35

Instrument :
BNA_N
ClientSampleId :
DUP02-20250610

Tgt Ion:152 Resp: 856

Ion	Ratio	Lower	Upper
152	100		
150	151.8	125.2	187.8
115	77.8	58.4	87.6

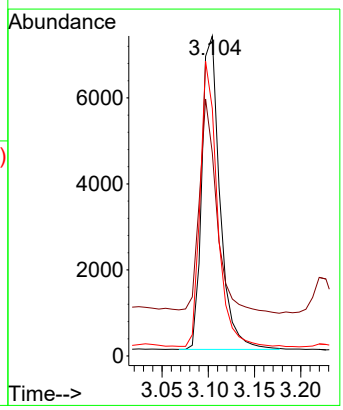


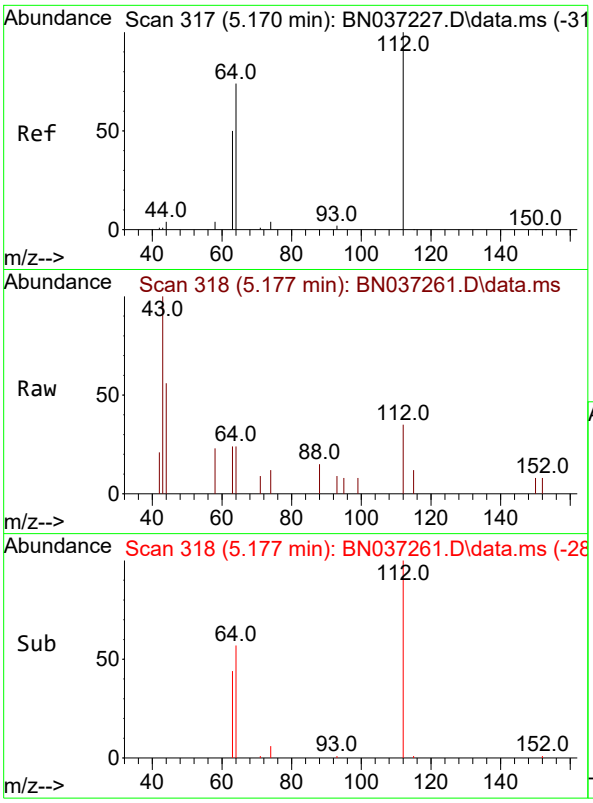


#2
1,4-Dioxane
Concen: 8.446 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037261.D
Acq: 14 Jun 2025 14:35

Tgt Ion: 88 Resp: 9919

Ion	Ratio	Lower	Upper
88	100		
43	65.5	52.6	79.0
58	86.0	73.5	110.3



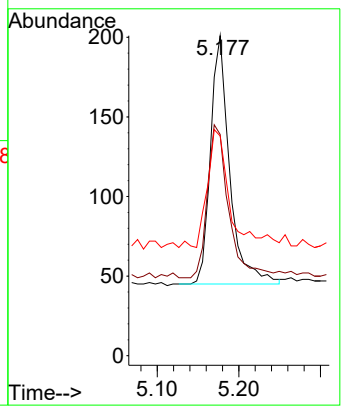


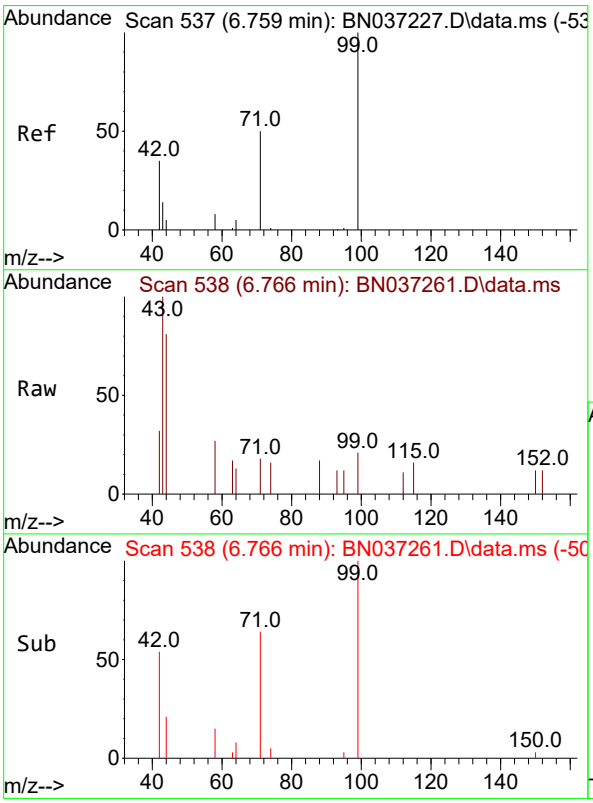
#4
2-Fluorophenol
Concen: 0.121 ng
RT: 5.177 min Scan# 31
Delta R.T. 0.007 min
Lab File: BN037261.D
Acq: 14 Jun 2025 14:35

Instrument :
BNA_N
ClientSampleId :
DUP02-20250610

Tgt Ion:112 Resp: 255

Ion	Ratio	Lower	Upper
112	100		
64	67.8	57.2	85.8
63	61.2	39.8	59.6#

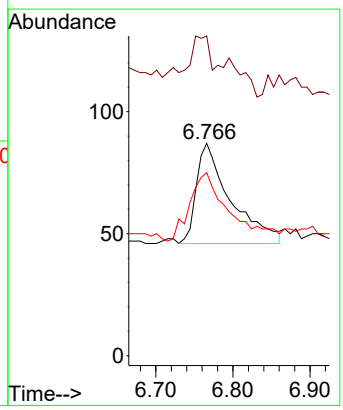


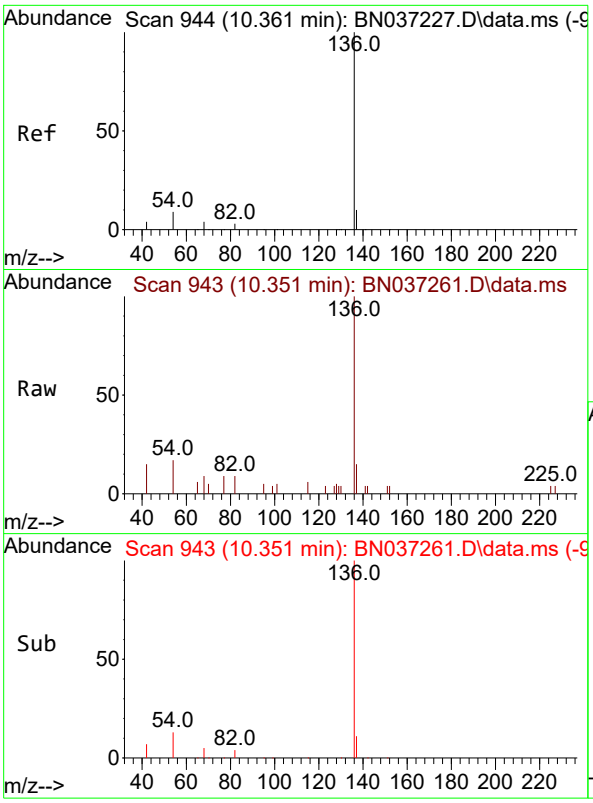


#5
Phenol-d6
Concen: 0.057 ng
RT: 6.766 min Scan# 538
Delta R.T. 0.007 min
Lab File: BN037261.D
Acq: 14 Jun 2025 14:35

Tgt Ion: 99 Resp: 127

Ion	Ratio	Lower	Upper
99	100		
42	18.1	36.2	54.4#
71	78.7	42.4	63.6#



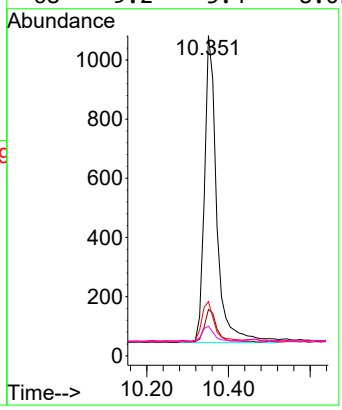


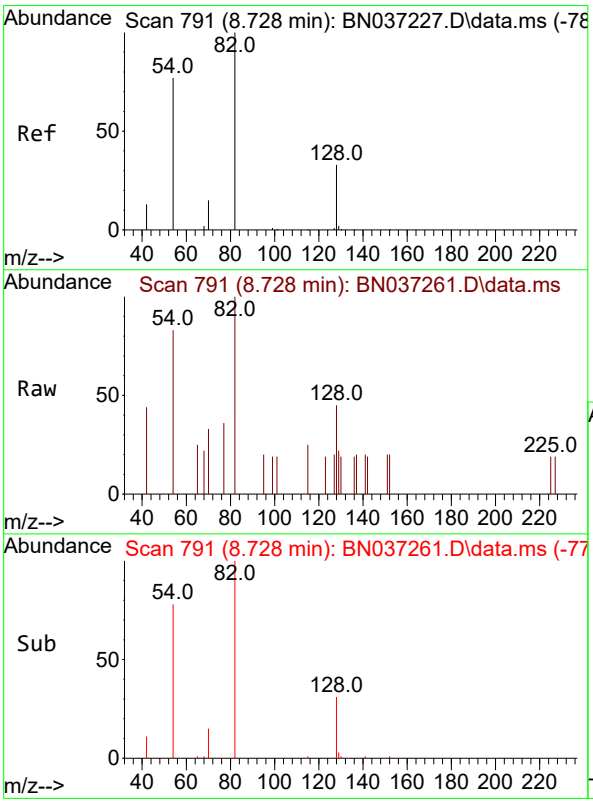
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037261.D
Acq: 14 Jun 2025 14:35

Instrument :
BNA_N
ClientSampleId :
DUP02-20250610

Tgt Ion:136 Resp: 2177

Ion	Ratio	Lower	Upper
136	100		
137	14.5	10.6	15.8
54	16.9	9.2	13.8#
68	9.2	5.4	8.0#

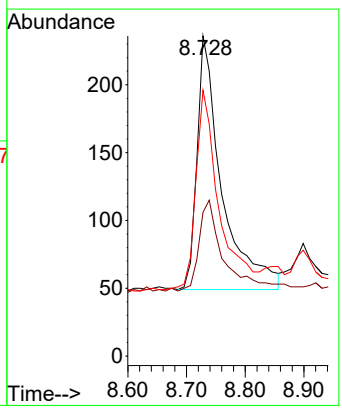


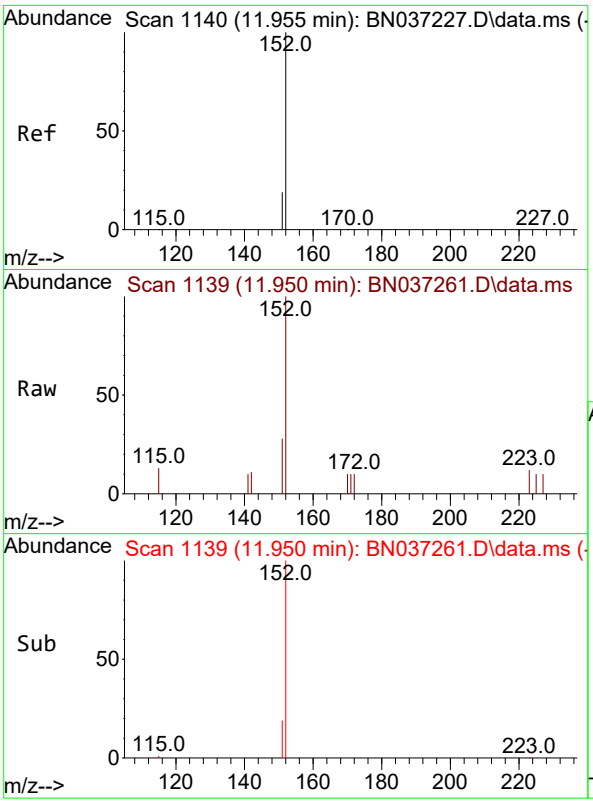


#8
Nitrobenzene-d5
Concen: 0.255 ng
RT: 8.728 min Scan# 791
Delta R.T. 0.000 min
Lab File: BN037261.D
Acq: 14 Jun 2025 14:35

Tgt Ion: 82 Resp: 548

Ion	Ratio	Lower	Upper
82	100		
128	44.9	31.2	46.8
54	83.1	63.3	94.9



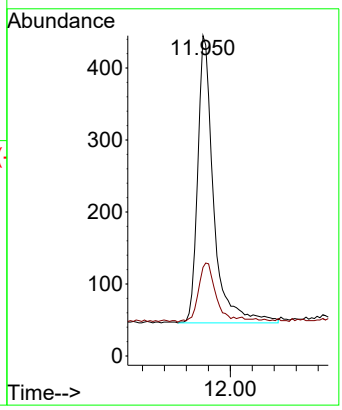


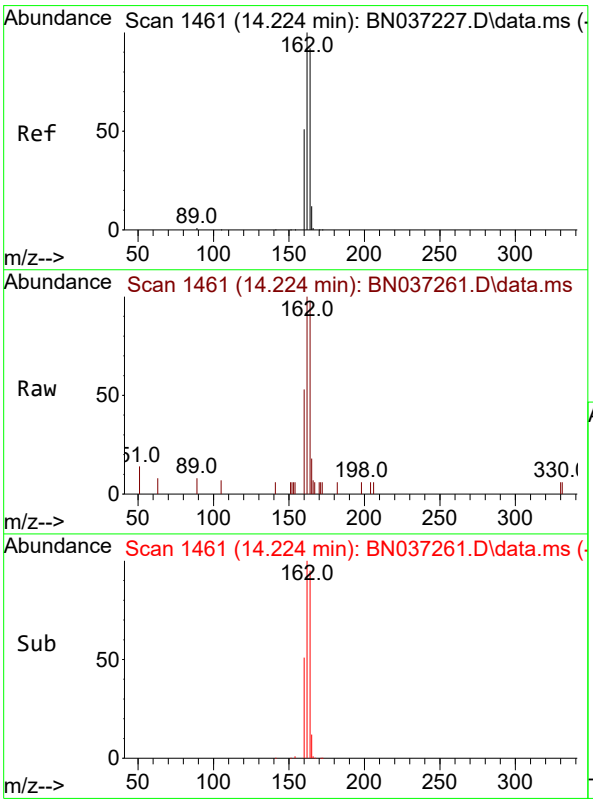
#11
2-Methylnaphthalene-d10
Concen: 0.274 ng
RT: 11.950 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN037261.D
Acq: 14 Jun 2025 14:35

Instrument :
BNA_N
ClientSampleId :
DUP02-20250610

Tgt Ion:152 Resp: 801

Ion	Ratio	Lower	Upper
152	100		
151	22.3	17.9	26.9

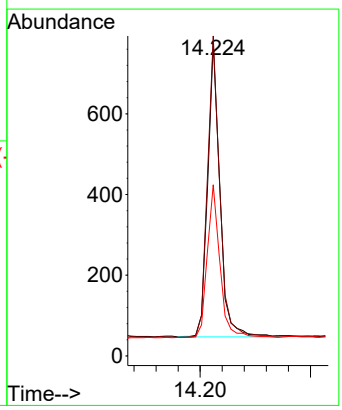


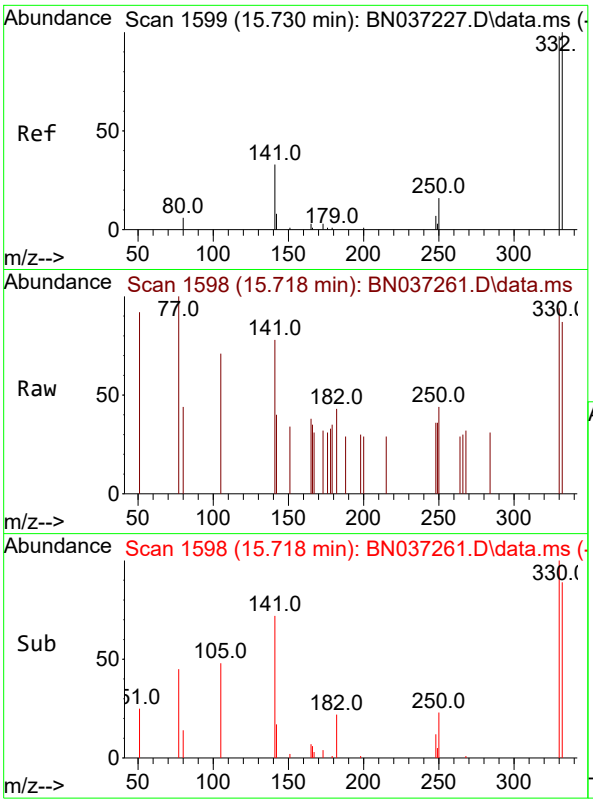


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BN037261.D
Acq: 14 Jun 2025 14:35

Tgt Ion:164 Resp: 1128

Ion	Ratio	Lower	Upper
164	100		
162	102.1	86.7	130.1
160	54.6	45.8	68.6



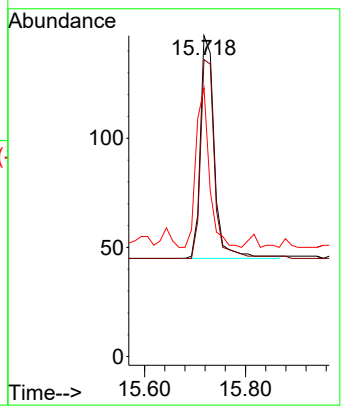


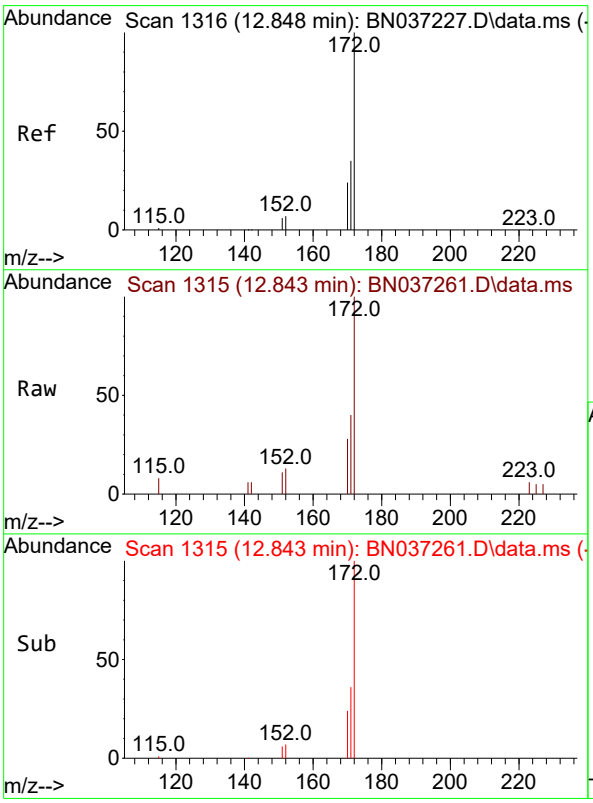
#14
2,4,6-Tribromophenol
Concen: 0.420 ng
RT: 15.718 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037261.D
Acq: 14 Jun 2025 14:35

Instrument :
BNA_N
ClientSampleId :
DUP02-20250610

Tgt Ion:330 Resp: 197

Ion	Ratio	Lower	Upper
330	100		
332	90.4	74.9	112.3
141	68.0	45.1	67.7#

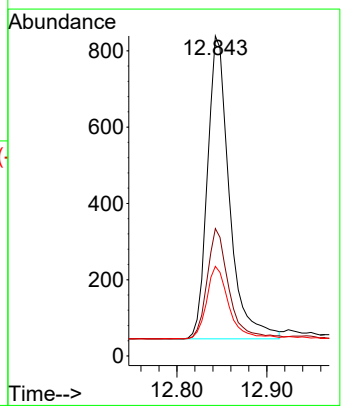


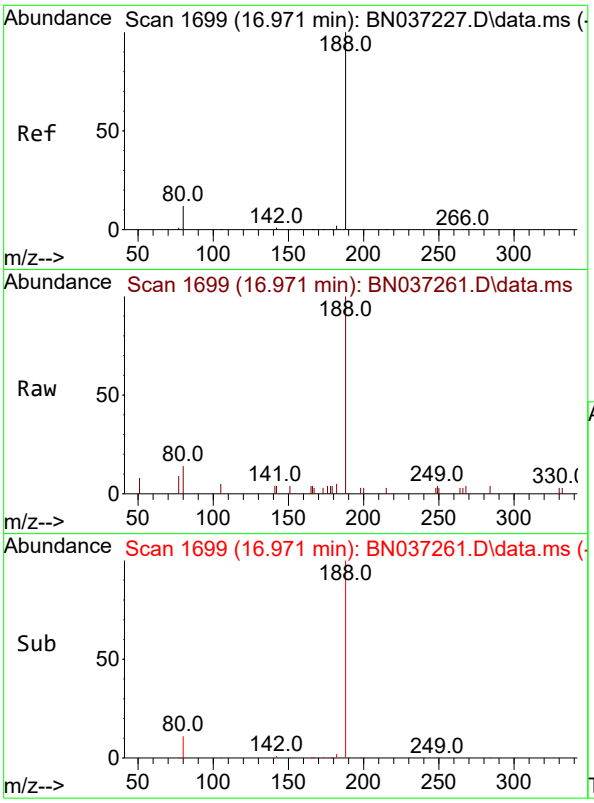


#15
2-Fluorobiphenyl
Concen: 0.284 ng
RT: 12.843 min Scan# 1315
Delta R.T. -0.005 min
Lab File: BN037261.D
Acq: 14 Jun 2025 14:35

Tgt Ion:172 Resp: 1348

Ion	Ratio	Lower	Upper
172	100		
171	39.8	29.8	44.8
170	28.0	21.1	31.7



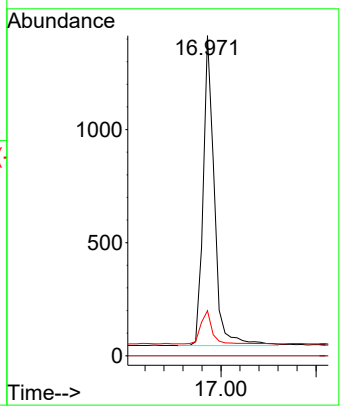


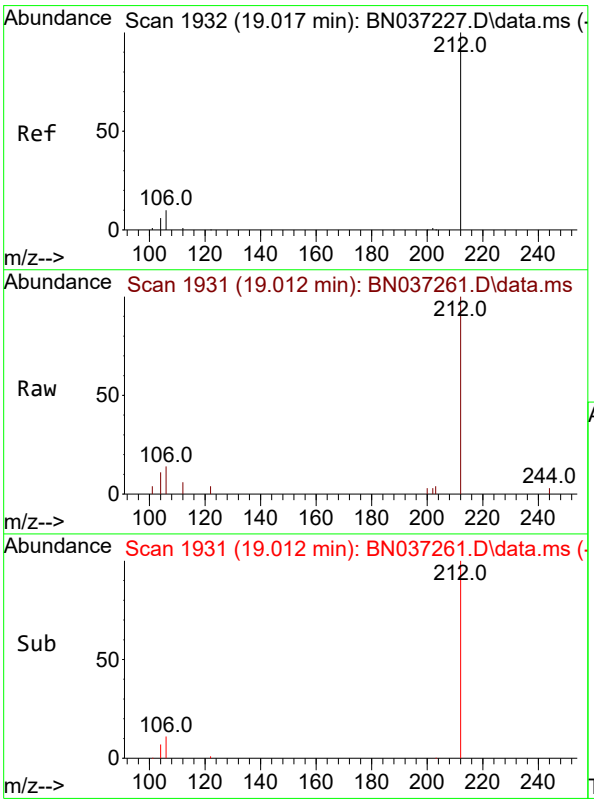
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037261.D
Acq: 14 Jun 2025 14:35

Instrument :
BNA_N
ClientSampleId :
DUP02-20250610

Tgt Ion:188 Resp: 2247

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	14.1	12.2	18.4

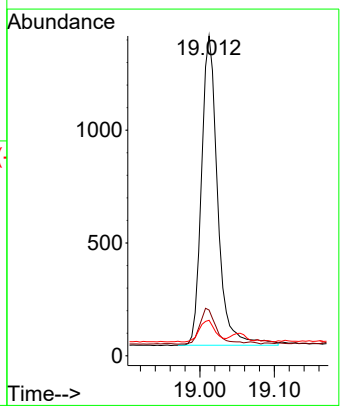


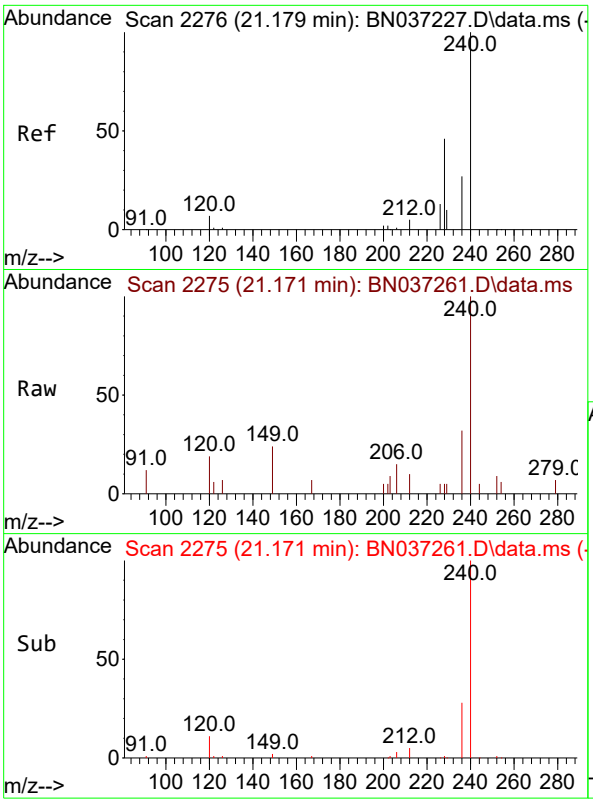


#27
Fluoranthene-d10
Concen: 0.353 ng
RT: 19.012 min Scan# 1931
Delta R.T. -0.005 min
Lab File: BN037261.D
Acq: 14 Jun 2025 14:35

Tgt Ion:212 Resp: 2074

Ion	Ratio	Lower	Upper
212	100		
106	11.6	9.3	13.9
104	6.9	5.7	8.5



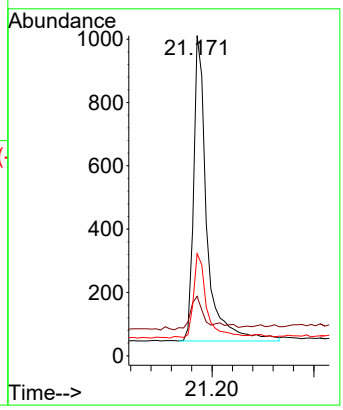


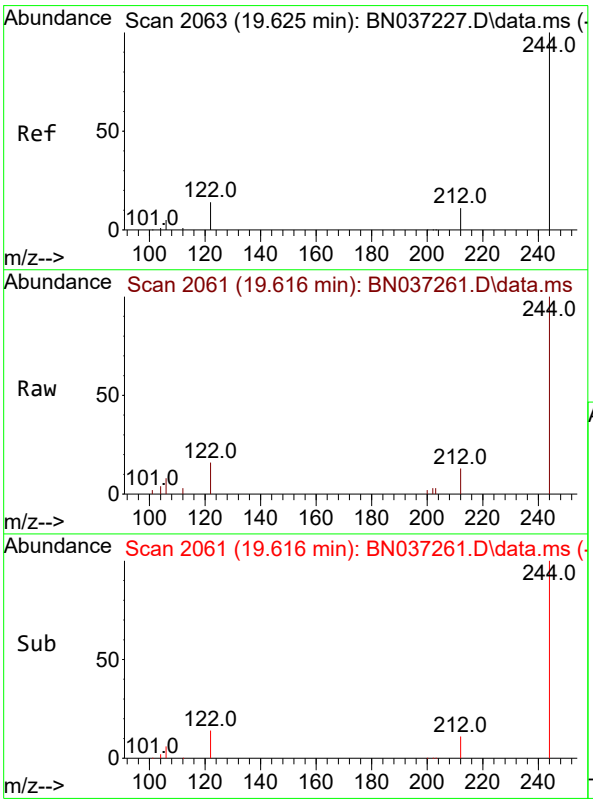
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.171 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037261.D
Acq: 14 Jun 2025 14:35

Instrument :
BNA_N
ClientSampleId :
DUP02-20250610

Tgt Ion:240 Resp: 1734

Ion	Ratio	Lower	Upper
240	100		
120	18.6	11.3	16.9#
236	31.8	24.4	36.6

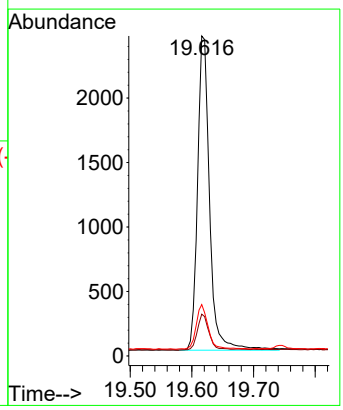


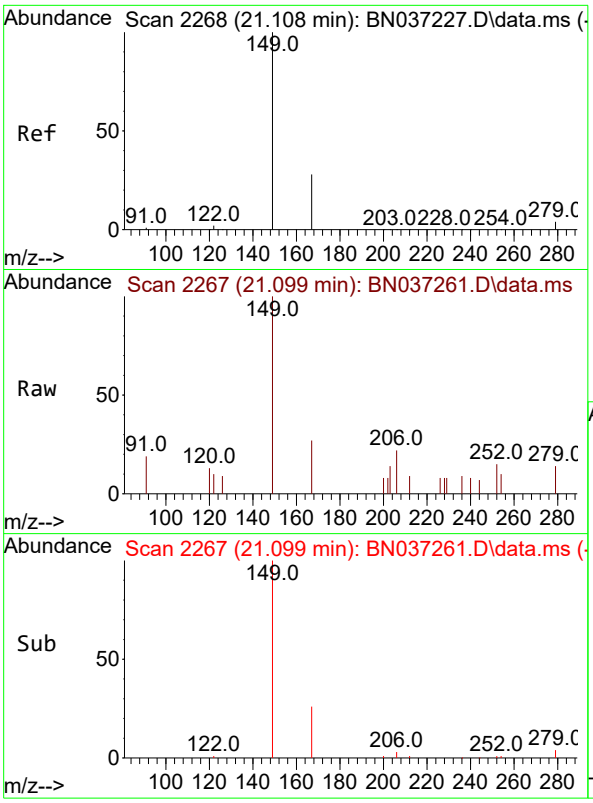


#31
Terphenyl-d14
Concen: 0.847 ng
RT: 19.616 min Scan# 2061
Delta R.T. -0.009 min
Lab File: BN037261.D
Acq: 14 Jun 2025 14:35

Tgt Ion:244 Resp: 3320

Ion	Ratio	Lower	Upper
244	100		
212	13.1	12.2	18.2
122	16.1	14.3	21.5



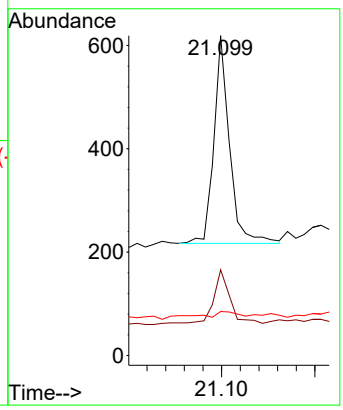


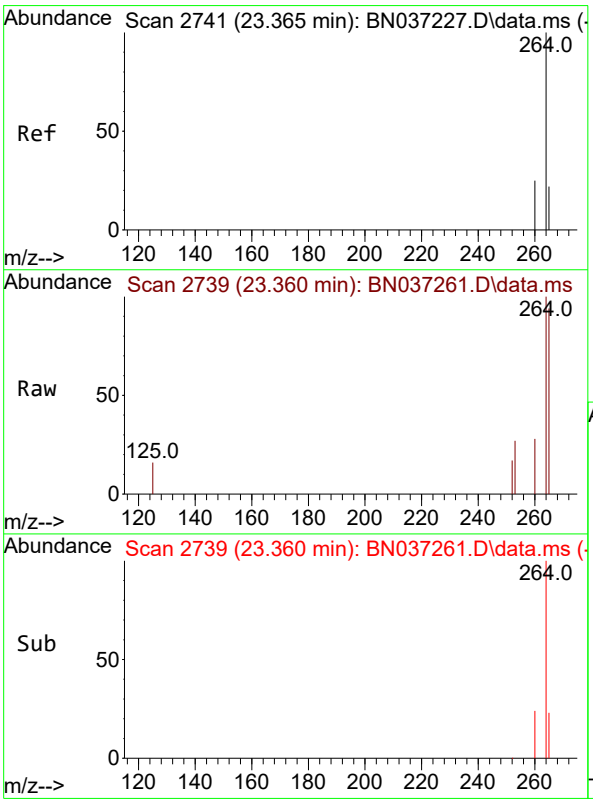
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.107 ng
RT: 21.099 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037261.D
Acq: 14 Jun 2025 14:35

Instrument :
BNA_N
ClientSampleId :
DUP02-20250610

Tgt Ion:149 Resp: 465

Ion	Ratio	Lower	Upper
149	100		
167	26.0	21.3	31.9
279	3.4	3.3	4.9

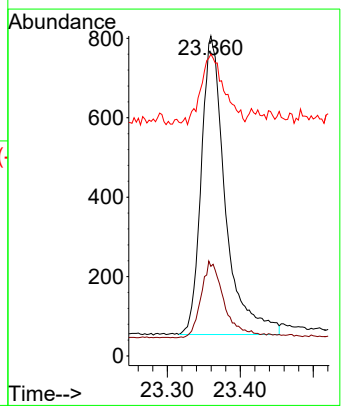




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.360 min Scan# 2739
Delta R.T. -0.006 min
Lab File: BN037261.D
Acq: 14 Jun 2025 14:35

Tgt Ion:264 Resp: 1724

Ion	Ratio	Lower	Upper
264	100		
260	28.0	22.8	34.2
265	94.3	66.4	99.6



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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/10/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/11/25
Client Sample ID:	DUP02-20250610DL	SDG No.:	Q2299
Lab Sample ID:	Q2299-14DL	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037288.D	5	06/13/25 08:03	06/16/25 12:51	PB168458

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	11.1	D	0.33	1.00	1.00	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.31		30 - 150		76%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.44		30 - 150		109%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.20	*	55 - 111		49%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.31		53 - 106		77%	SPK: 0.4
1718-51-0	Terphenyl-d14	1.15	*	58 - 132		288%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	691	7.582				
1146-65-2	Naphthalene-d8	1770	10.362				
15067-26-2	Acenaphthene-d10	1010	14.224				
1517-22-2	Phenanthrene-d10	1900	16.971				
1719-03-5	Chrysene-d12	1310	21.18				
1520-96-3	Perylene-d12	1240	23.366				

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_N\Data\BN061625\
Data File : BN037288.D
Acq On : 16 Jun 2025 12:51
Operator : RC/JU
Sample : Q2299-14DL 5X
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DUP02-20250610DL

Quant Time: Jun 16 13:22:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration

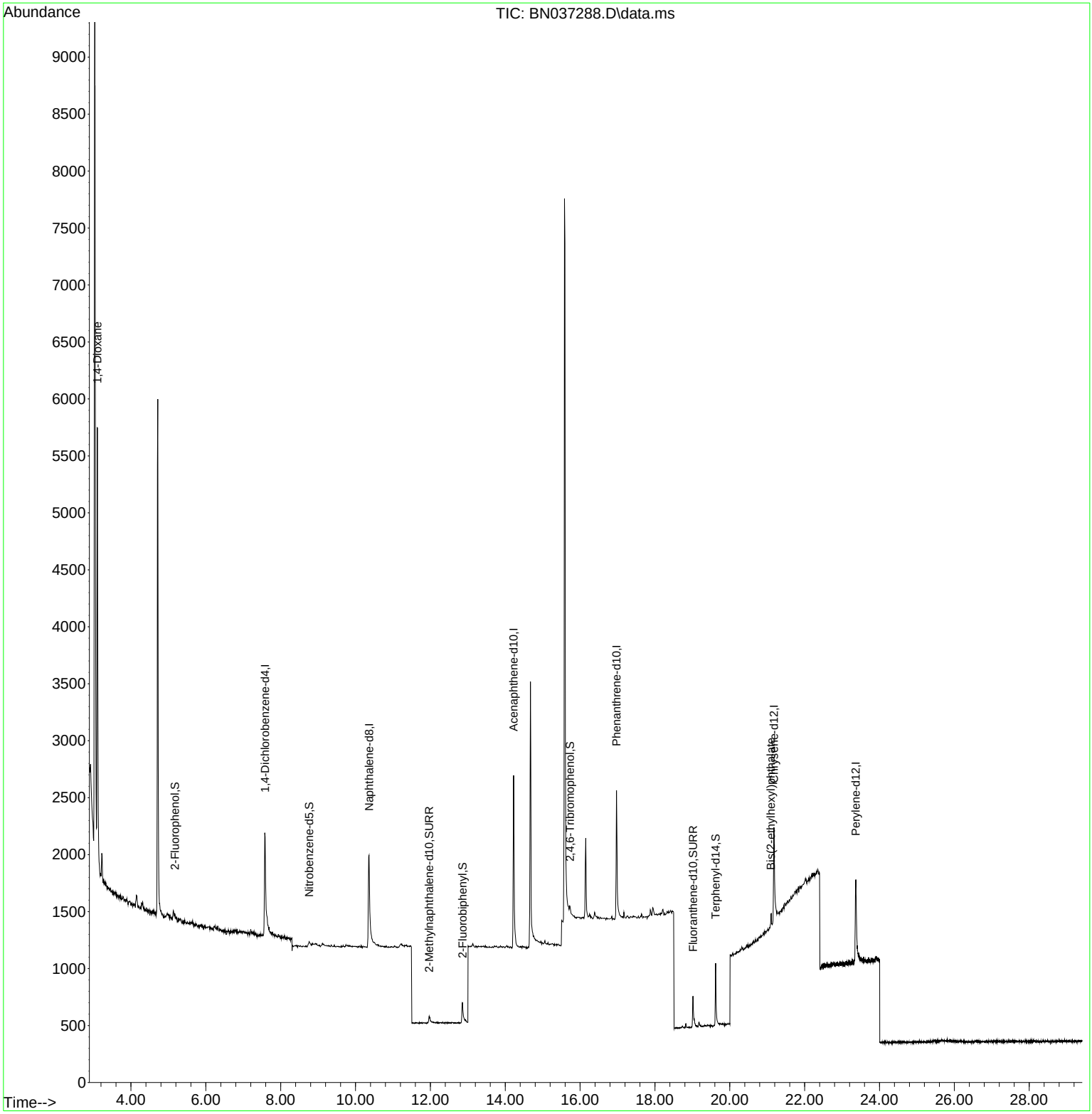
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.582	152	691	0.400	ng	0.00
7) Naphthalene-d8	10.362	136	1765	0.400	ng	# 0.00
13) Acenaphthene-d10	14.224	164	1009	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	1902	0.400	ng	0.00
29) Chrysene-d12	21.180	240	1313	0.400	ng	# 0.00
35) Perylene-d12	23.366	264	1237	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	50	0.029	ng	0.00
5) Phenol-d6	0.000	99	0d	0.000	ng	
8) Nitrobenzene-d5	8.760	82	68	0.039	ng	0.03
11) 2-Methylnaphthalene-d10	11.965	152	145	0.061	ng	0.01
14) 2,4,6-Tribromophenol	15.730	330	43	0.103	ng	0.00
15) 2-Fluorobiphenyl	12.858	172	264	0.062	ng	0.01
27) Fluoranthene-d10	19.017	212	432	0.087	ng	0.00
31) Terphenyl-d14	19.621	244	682	0.230	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.104	88	2099	2.214	ng	94
34) Bis(2-ethylhexyl)phtha...	21.099	149	204	0.062	ng	# 84

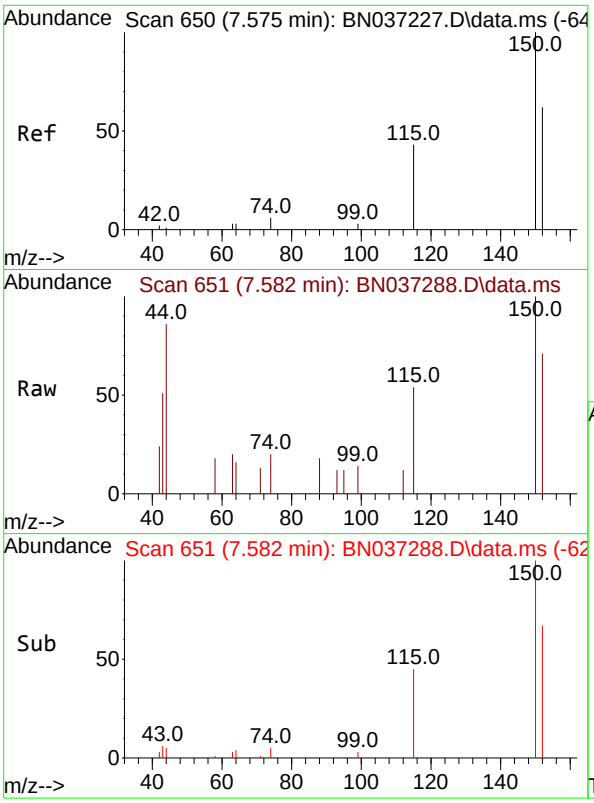
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061625\
Data File : BN037288.D
Acq On : 16 Jun 2025 12:51
Operator : RC/JU
Sample : Q2299-14DL 5X
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DUP02-20250610DL

Quant Time: Jun 16 13:22:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration



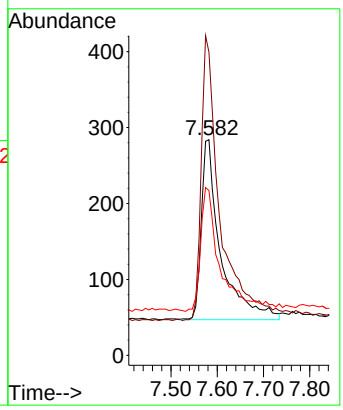


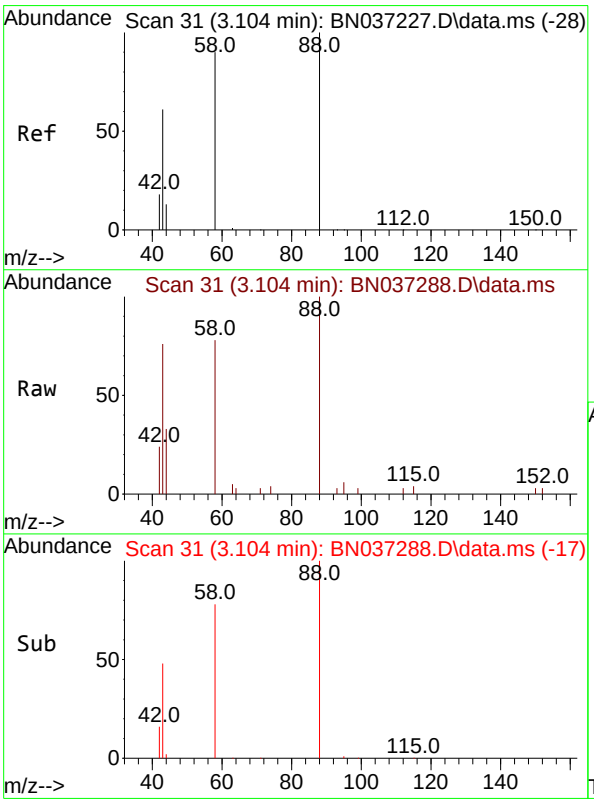
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.582 min Scan# 6
Delta R.T. 0.007 min
Lab File: BN037288.D
Acq: 16 Jun 2025 12:51

Instrument :
BNA_N
ClientSampleId :
DUP02-20250610DL

Tgt Ion:152 Resp: 691

Ion	Ratio	Lower	Upper
152	100		
150	140.5	125.2	187.8
115	76.4	58.4	87.6

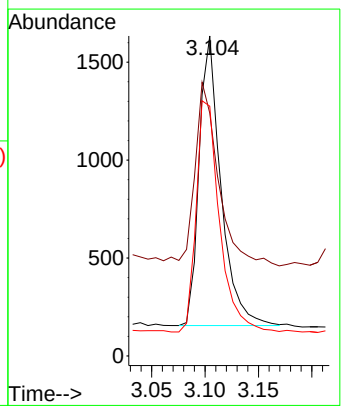


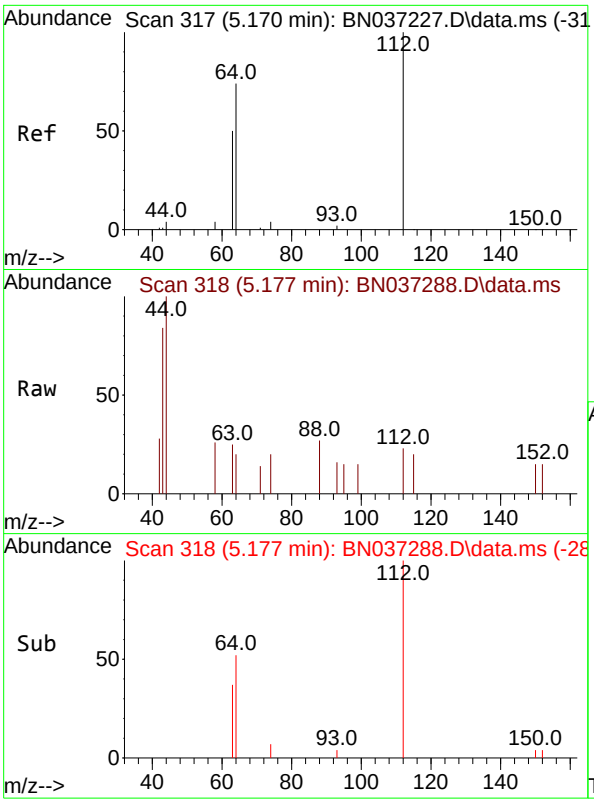


#2
1,4-Dioxane
Concen: 2.214 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037288.D
Acq: 16 Jun 2025 12:51

Tgt Ion: 88 Resp: 2099

Ion	Ratio	Lower	Upper
88	100		
43	69.2	52.6	79.0
58	85.7	73.5	110.3



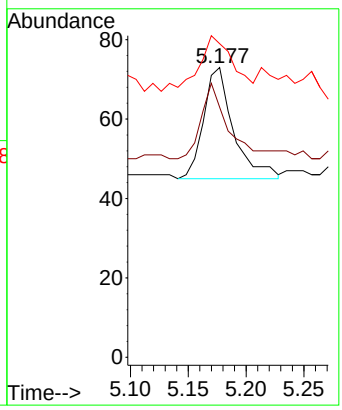


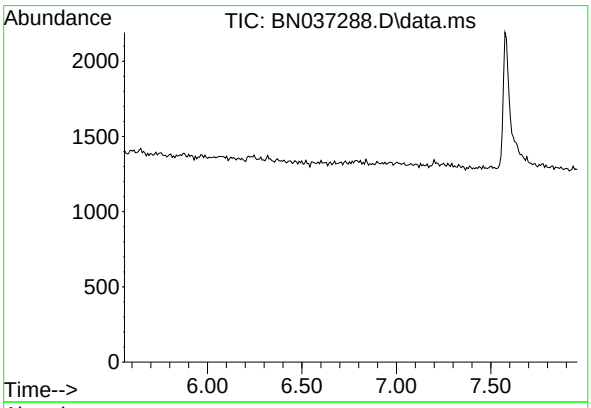
#4
2-Fluorophenol
Concen: 0.029 ng
RT: 5.177 min Scan# 3
Delta R.T. 0.007 min
Lab File: BN037288.D
Acq: 16 Jun 2025 12:51

Instrument :
BNA_N
ClientSampleId :
DUP02-20250610DL

Tgt Ion:112 Resp: 50

Ion	Ratio	Lower	Upper
112	100		
64	74.0	57.2	85.8
63	56.0	39.8	59.6



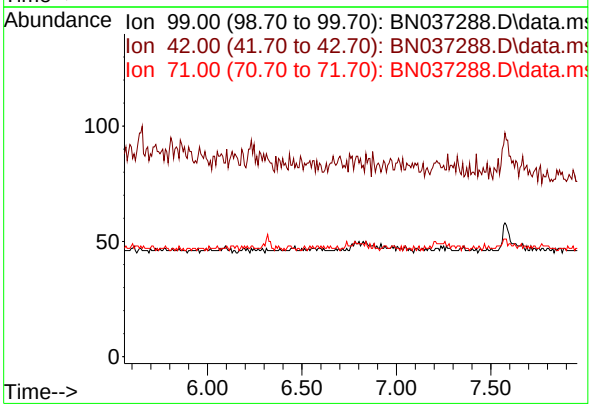


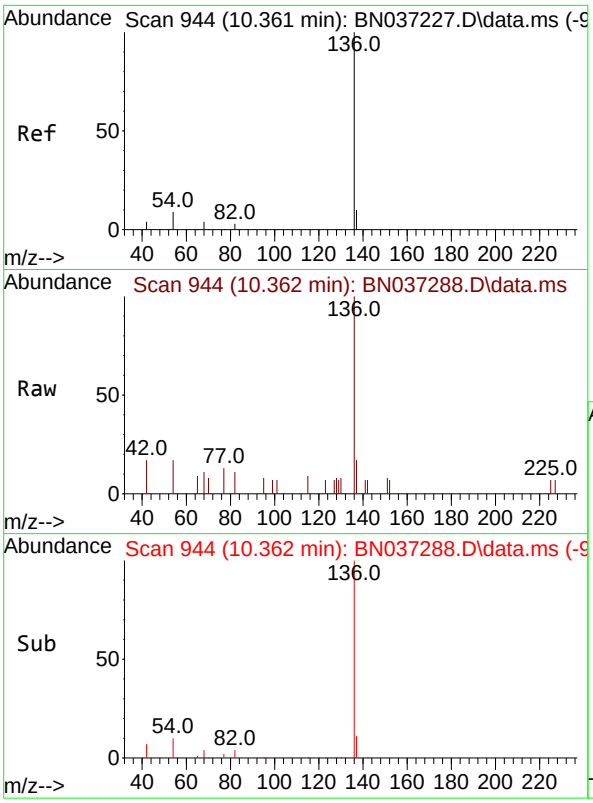
#5
Phenol-d6
Concen: 0.000 ng
Expected RT: 6.76 min

Lab File: BN037288.D
Acq: 16 Jun 2025 12:51

Tgt Ion: 99

Sig	Exp Ratio
99	100
42	45.3
71	53.0



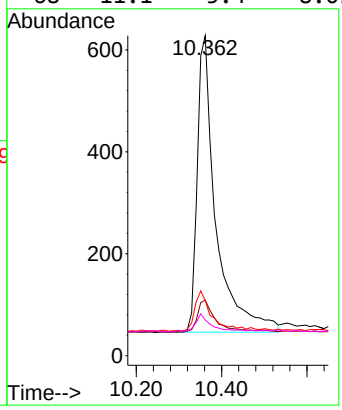


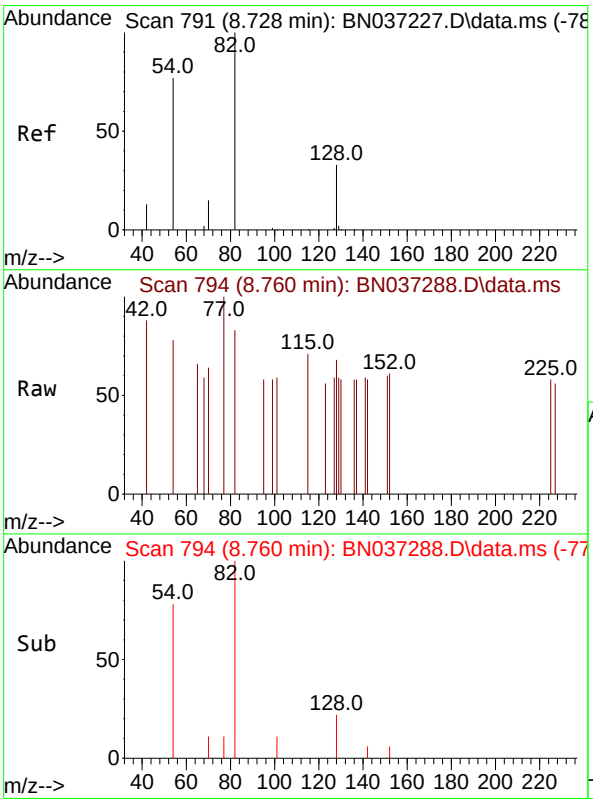
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.362 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037288.D
Acq: 16 Jun 2025 12:51

Instrument :
BNA_N
ClientSampleId :
DUP02-20250610DL

Tgt Ion:136 Resp: 1765

Ion	Ratio	Lower	Upper
136	100		
137	17.4	10.6	15.8#
54	17.2	9.2	13.8#
68	11.1	5.4	8.0#

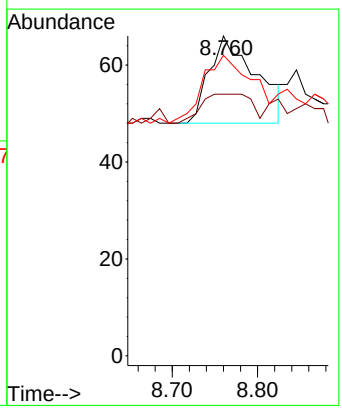


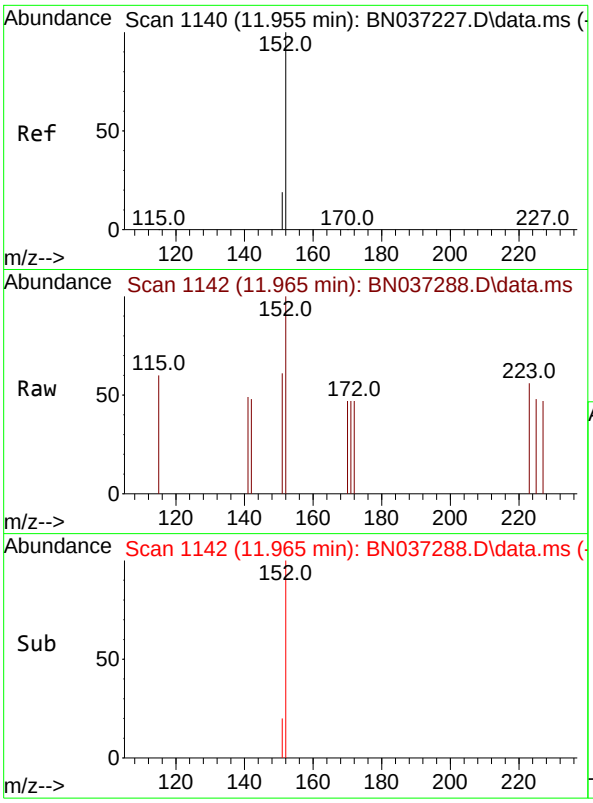


#8
Nitrobenzene-d5
Concen: 0.039 ng
RT: 8.760 min Scan# 794
Delta R.T. 0.032 min
Lab File: BN037288.D
Acq: 16 Jun 2025 12:51

Tgt Ion: 82 Resp: 68

Ion	Ratio	Lower	Upper
82	100		
128	81.8	31.2	46.8#
54	93.9	63.3	94.9



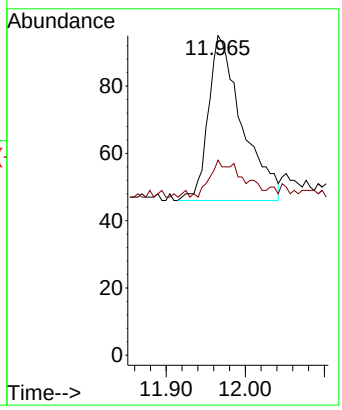


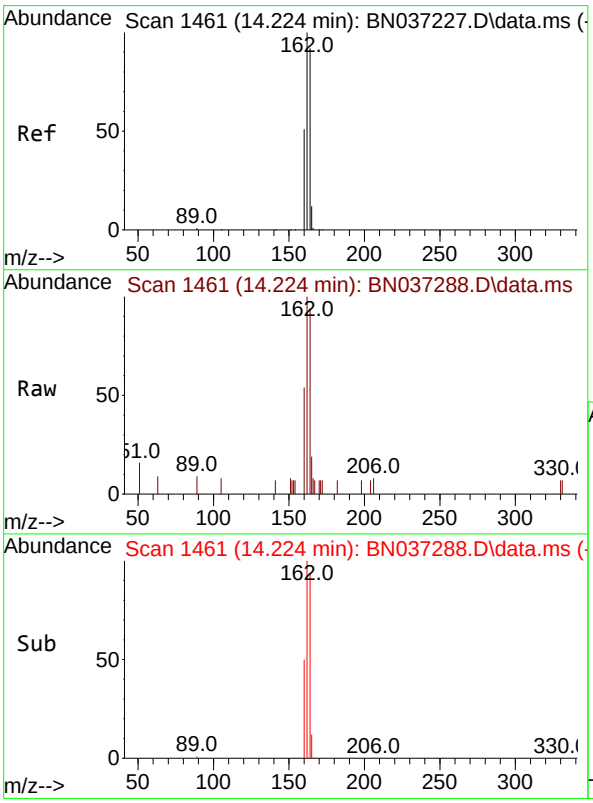
#11
2-Methylnaphthalene-d10
Concen: 0.061 ng
RT: 11.965 min Scan# 11
Delta R.T. 0.010 min
Lab File: BN037288.D
Acq: 16 Jun 2025 12:51

Instrument :
BNA_N
ClientSampleId :
DUP02-20250610DL

Tgt Ion:152 Resp: 145

Ion	Ratio	Lower	Upper
152	100		
151	22.1	17.9	26.9

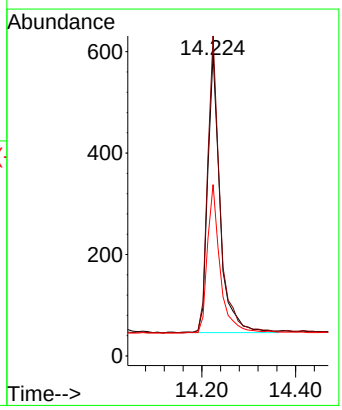


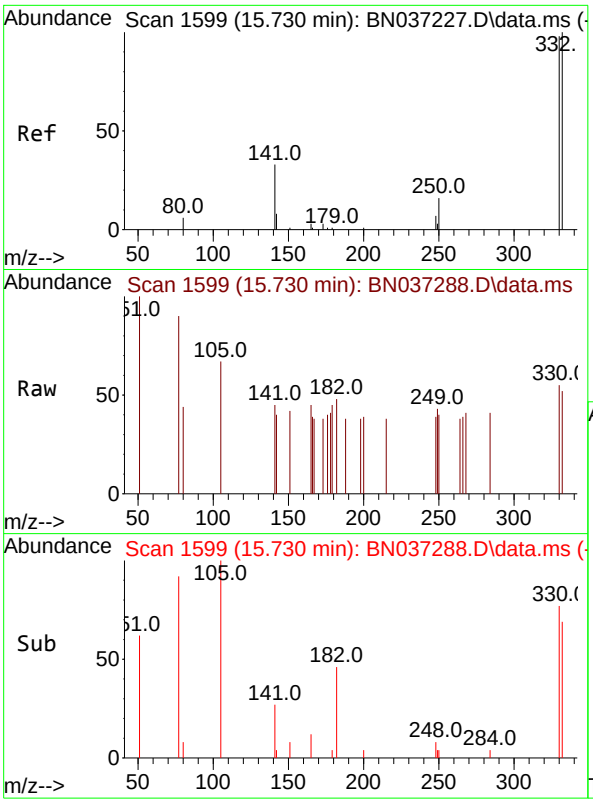


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BN037288.D
Acq: 16 Jun 2025 12:51

Tgt Ion:164 Resp: 1009

Ion	Ratio	Lower	Upper
164	100		
162	105.9	86.7	130.1
160	56.7	45.8	68.6



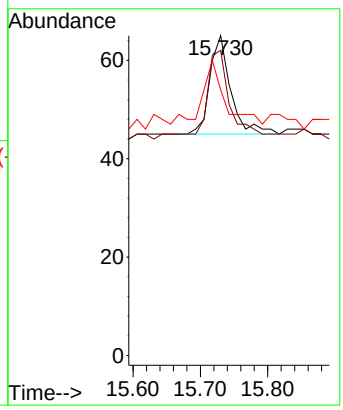


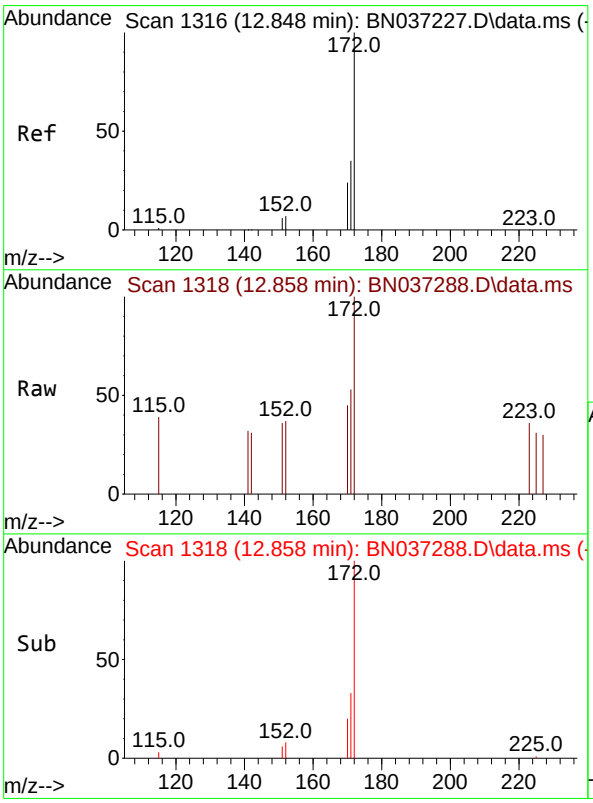
#14
2,4,6-Tribromophenol
Concen: 0.103 ng
RT: 15.730 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037288.D
Acq: 16 Jun 2025 12:51

Instrument :
BNA_N
ClientSampleId :
DUP02-20250610DL

Tgt Ion:330 Resp: 43

Ion	Ratio	Lower	Upper
330	100		
332	90.7	74.9	112.3
141	76.7	45.1	67.7#

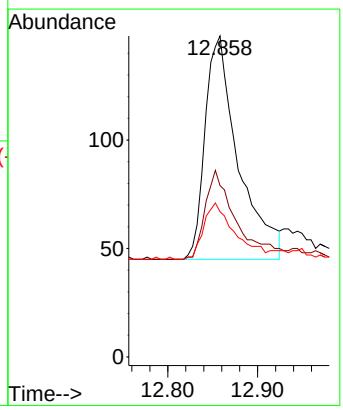


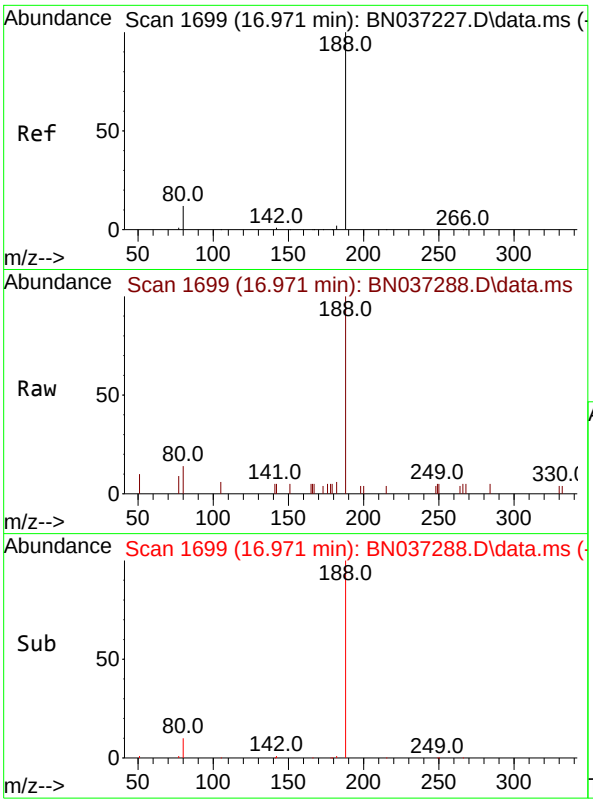


#15
2-Fluorobiphenyl
Concen: 0.062 ng
RT: 12.858 min Scan# 1318
Delta R.T. 0.010 min
Lab File: BN037288.D
Acq: 16 Jun 2025 12:51

Tgt Ion:172 Resp: 264

Ion	Ratio	Lower	Upper
172	100		
171	53.4	29.8	44.8#
170	45.3	21.1	31.7#



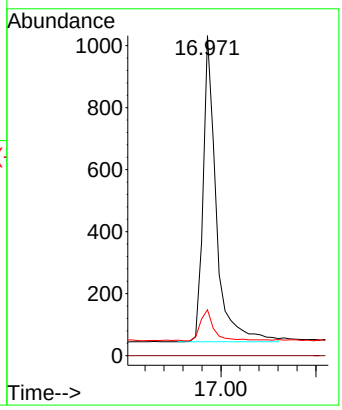


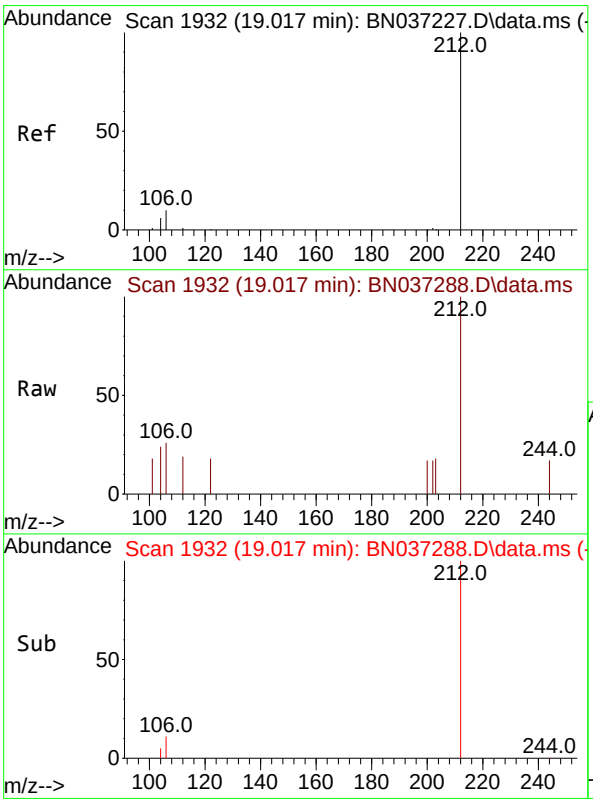
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037288.D
Acq: 16 Jun 2025 12:51

Instrument :
BNA_N
ClientSampleId :
DUP02-20250610DL

Tgt Ion:188 Resp: 1902

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	14.3	12.2	18.4

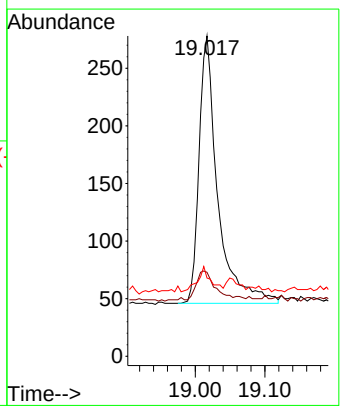


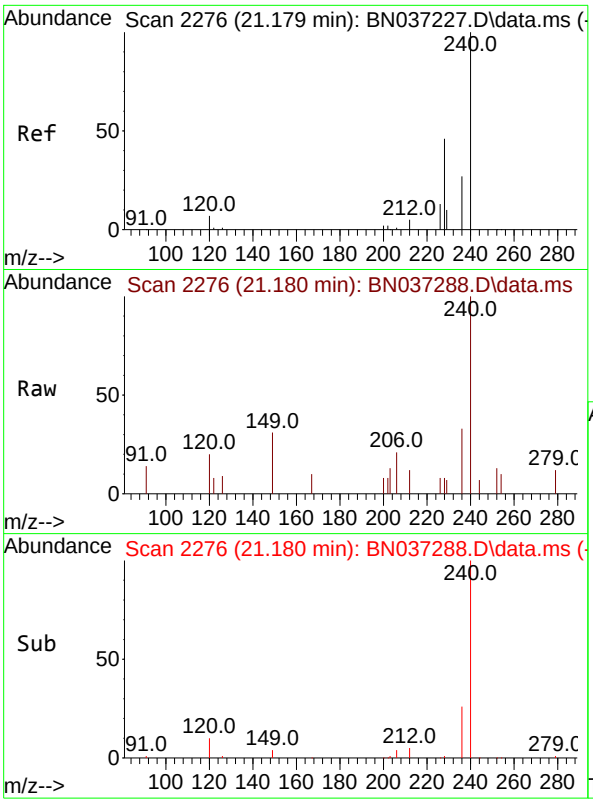


#27
Fluoranthene-d10
Concen: 0.087 ng
RT: 19.017 min Scan# 1932
Delta R.T. 0.000 min
Lab File: BN037288.D
Acq: 16 Jun 2025 12:51

Tgt Ion:212 Resp: 432

Ion	Ratio	Lower	Upper
212	100		
106	11.1	9.3	13.9
104	5.8	5.7	8.5



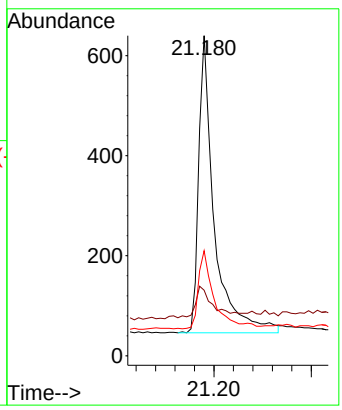


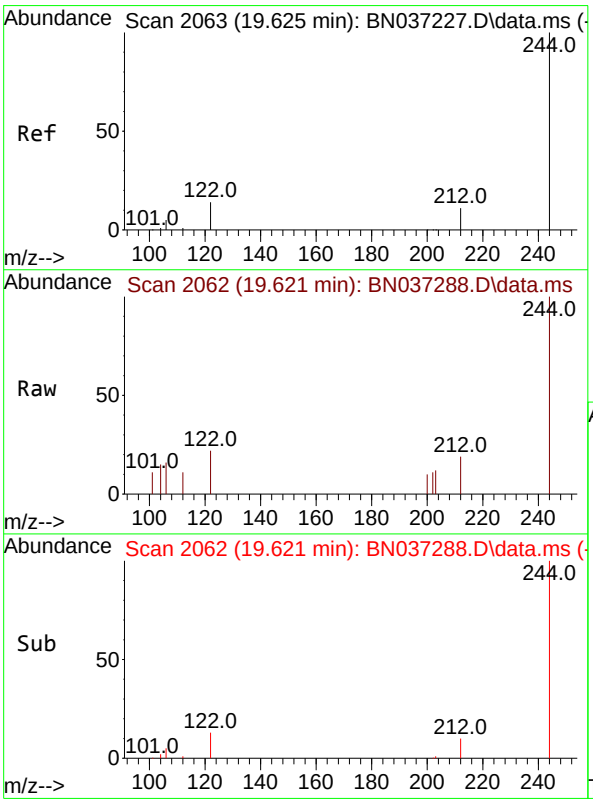
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.180 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037288.D
Acq: 16 Jun 2025 12:51

Instrument :
BNA_N
ClientSampleId :
DUP02-20250610DL

Tgt Ion:240 Resp: 1313

Ion	Ratio	Lower	Upper
240	100		
120	20.5	11.3	16.9#
236	32.8	24.4	36.6

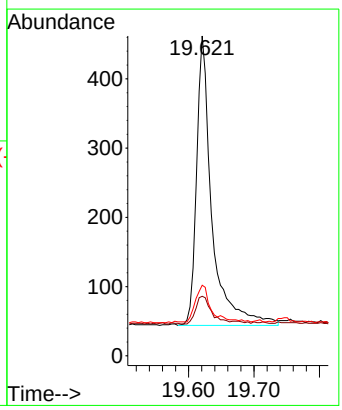


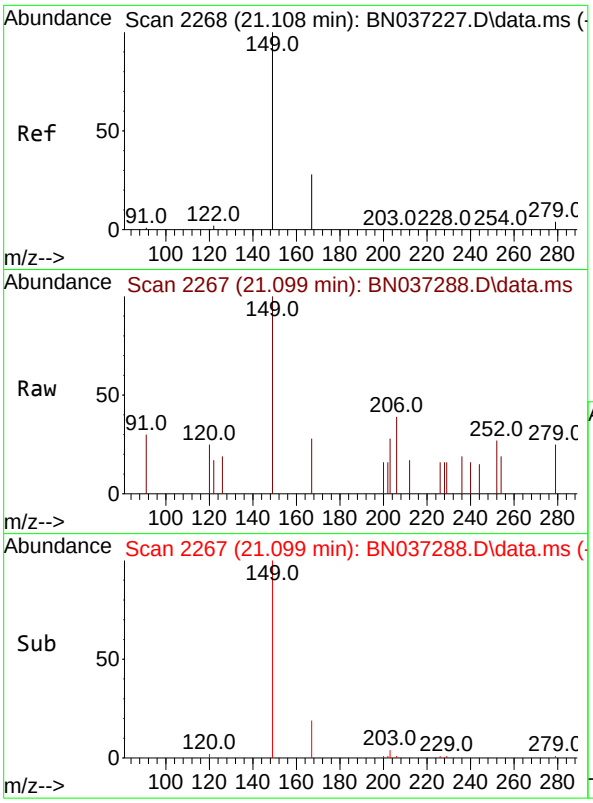


#31
Terphenyl-d14
Concen: 0.230 ng
RT: 19.621 min Scan# 2062
Delta R.T. -0.005 min
Lab File: BN037288.D
Acq: 16 Jun 2025 12:51

Tgt Ion:244 Resp: 682

Ion	Ratio	Lower	Upper
244	100		
212	18.6	12.2	18.2#
122	22.1	14.3	21.5#



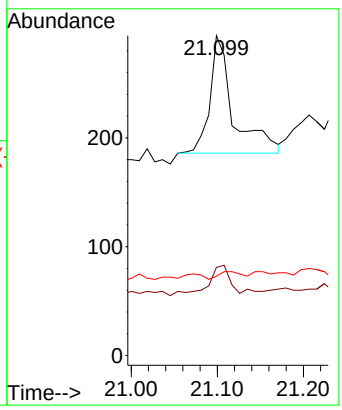


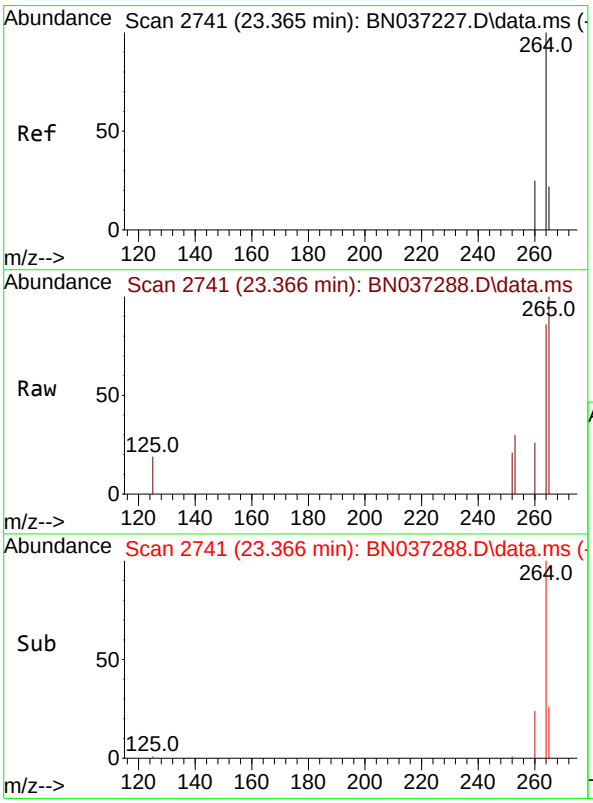
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.062 ng
RT: 21.099 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037288.D
Acq: 16 Jun 2025 12:51

Instrument :
BNA_N
ClientSampleId :
DUP02-20250610DL

Tgt Ion:149 Resp: 204

Ion	Ratio	Lower	Upper
149	100		
167	17.6	21.3	31.9#
279	6.4	3.3	4.9#

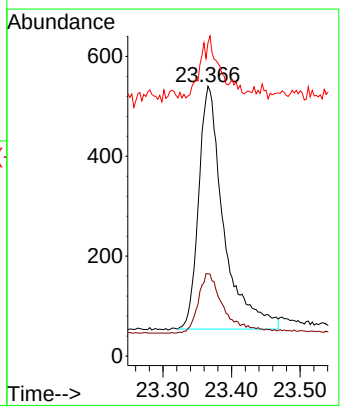




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.366 min Scan# 2741
Delta R.T. 0.000 min
Lab File: BN037288.D
Acq: 16 Jun 2025 12:51

Tgt Ion:264 Resp: 1237

Ion	Ratio	Lower	Upper
264	100		
260	30.6	22.8	34.2
265	116.1	66.4	99.6#



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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/10/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/11/25
Client Sample ID:	TT174I1-20250610	SDG No.:	Q2299
Lab Sample ID:	Q2299-15	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037262.D	1	06/13/25 08:03	06/14/25 15:11	PB168458

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.60		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.30		30 - 150		74%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.36		30 - 150		90%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.25		55 - 111		63%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.31		53 - 106		77%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.53		58 - 132		132%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	939	7.582				
1146-65-2	Naphthalene-d8	2290	10.361				
15067-26-2	Acenaphthene-d10	1180	14.224				
1517-22-2	Phenanthrene-d10	2050	16.971				
1719-03-5	Chrysene-d12	1680	21.171				
1520-96-3	Perylene-d12	1690	23.363				

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_N\Data\BN061325\
Data File : BN037262.D
Acq On : 14 Jun 2025 15:11
Operator : RC/JU
Sample : Q2299-15
Misc :
ALS Vial : 41 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT174I1-20250610

Quant Time: Jun 16 02:43:18 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration

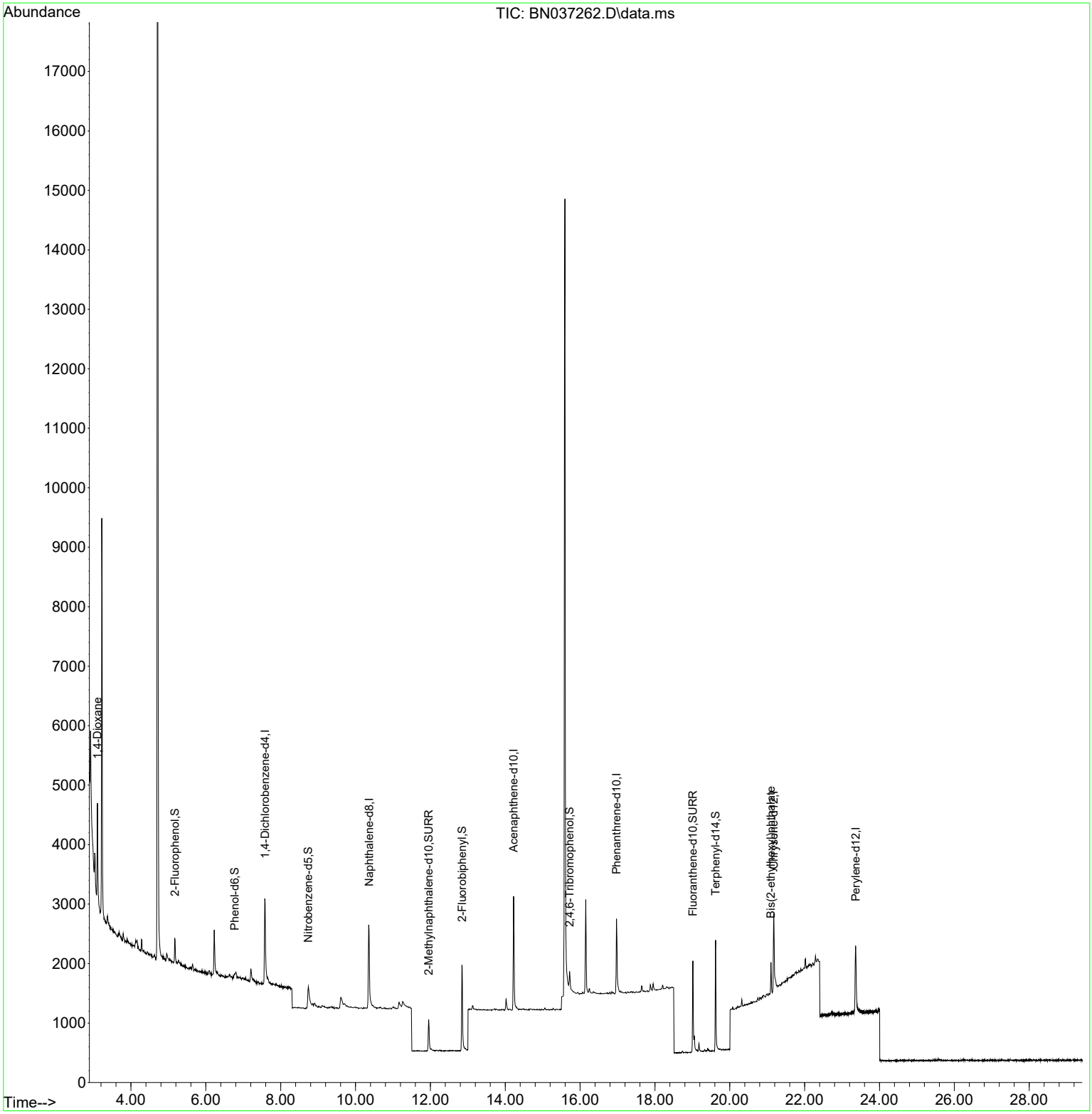
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.582	152	939	0.400	ng	0.00
7) Naphthalene-d8	10.361	136	2285	0.400	ng	# 0.00
13) Acenaphthene-d10	14.224	164	1178	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	2047	0.400	ng	0.00
29) Chrysene-d12	21.171	240	1682	0.400	ng	# 0.00
35) Perylene-d12	23.363	264	1693	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	307	0.133	ng	0.00
5) Phenol-d6	6.773	99	152	0.063	ng	0.01
8) Nitrobenzene-d5	8.739	82	566	0.251	ng	0.01
11) 2-Methylnaphthalene-d10	11.955	152	908	0.296	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	168	0.343	ng	-0.01
15) 2-Fluorobiphenyl	12.848	172	1525	0.308	ng	0.00
27) Fluoranthene-d10	19.012	212	1926	0.360	ng	0.00
31) Terphenyl-d14	19.621	244	2012	0.529	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.104	88	778	0.604	ng	# 71
34) Bis(2-ethylhexyl)phtha...	21.099	149	500	0.118	ng	97

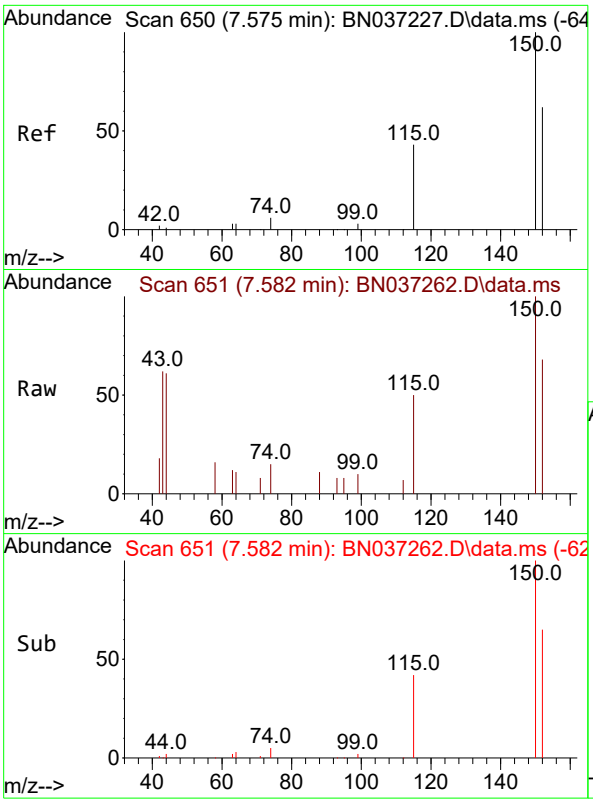
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037262.D
Acq On : 14 Jun 2025 15:11
Operator : RC/JU
Sample : Q2299-15
Misc :
ALS Vial : 41 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT174I1-20250610

Quant Time: Jun 16 02:43:18 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration



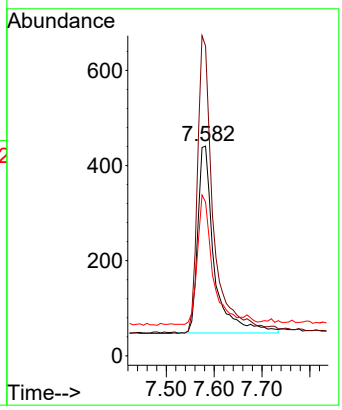


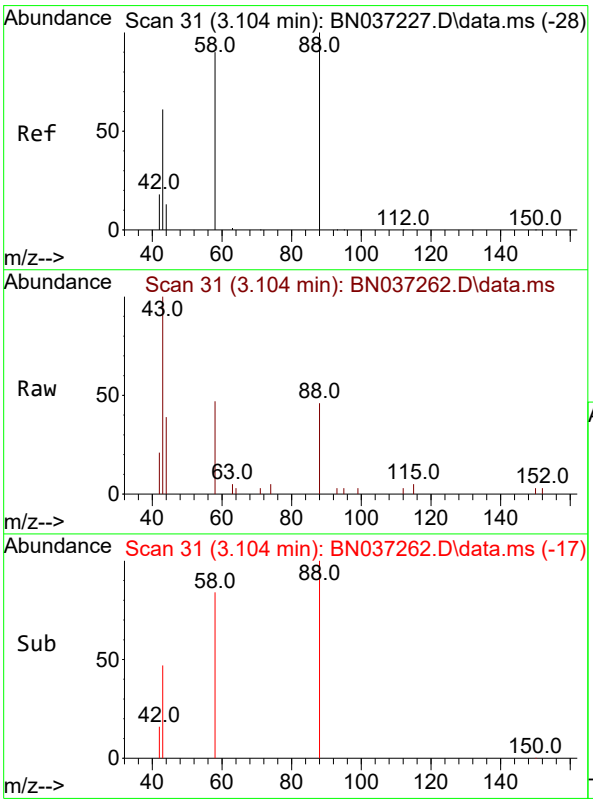
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.582 min Scan# 6
Delta R.T. 0.007 min
Lab File: BN037262.D
Acq: 14 Jun 2025 15:11

Instrument :
BNA_N
ClientSampleId :
TT174I1-20250610

Tgt Ion:152 Resp: 939

Ion	Ratio	Lower	Upper
152	100		
150	147.6	125.2	187.8
115	73.2	58.4	87.6

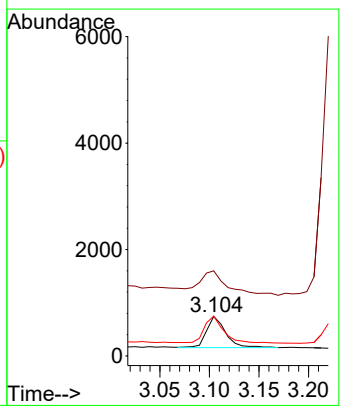


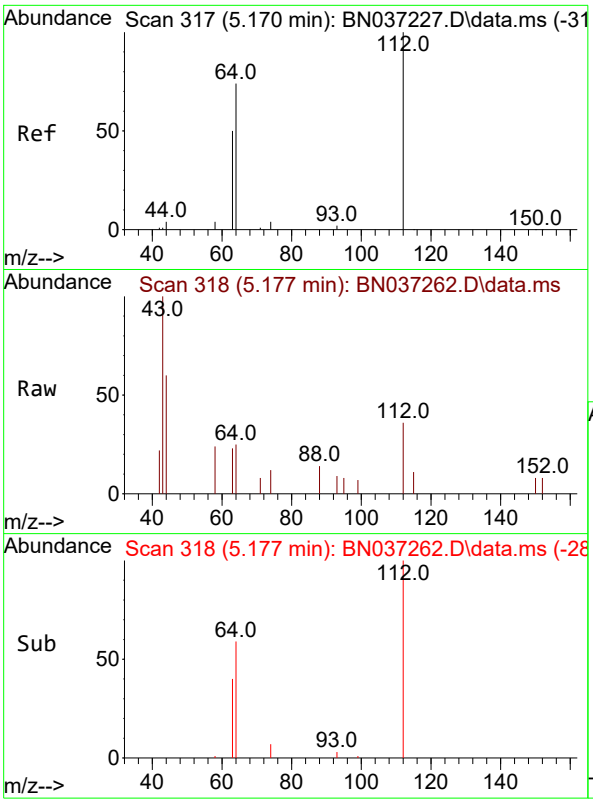


#2
1,4-Dioxane
Concen: 0.604 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037262.D
Acq: 14 Jun 2025 15:11

Tgt Ion: 88 Resp: 778

Ion	Ratio	Lower	Upper
88	100		
43	115.8	52.6	79.0#
58	87.4	73.5	110.3



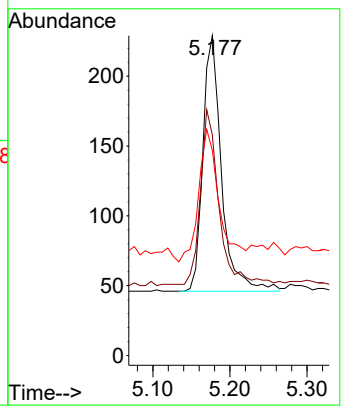


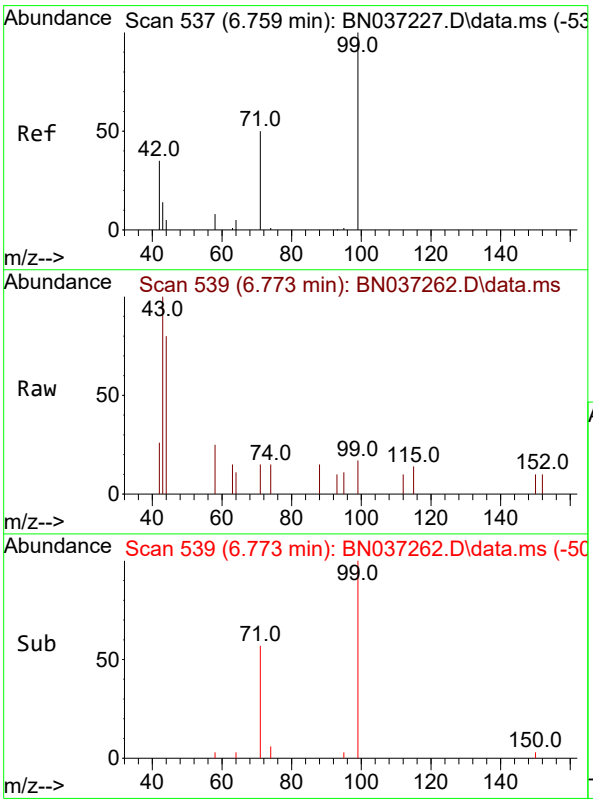
#4
2-Fluorophenol
Concen: 0.133 ng
RT: 5.177 min Scan# 31
Delta R.T. 0.007 min
Lab File: BN037262.D
Acq: 14 Jun 2025 15:11

Instrument :
BNA_N
ClientSampleId :
TT174I1-20250610

Tgt Ion:112 Resp: 307

Ion	Ratio	Lower	Upper
112	100		
64	67.4	57.2	85.8
63	56.7	39.8	59.6

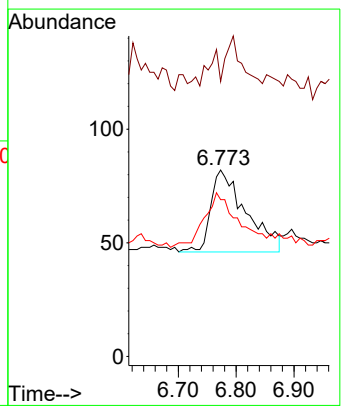


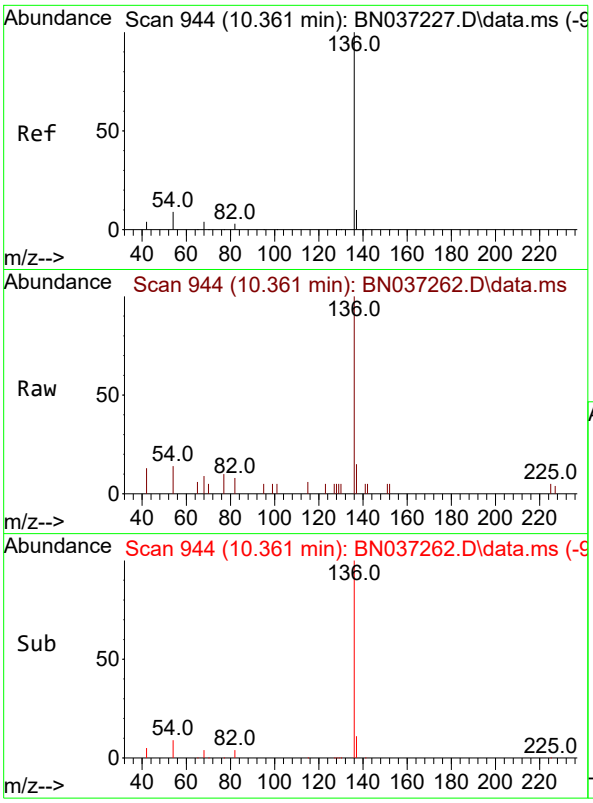


#5
Phenol-d6
Concen: 0.063 ng
RT: 6.773 min Scan# 539
Delta R.T. 0.015 min
Lab File: BN037262.D
Acq: 14 Jun 2025 15:11

Tgt Ion: 99 Resp: 152

Ion	Ratio	Lower	Upper
99	100		
42	20.4	36.2	54.4#
71	64.5	42.4	63.6#



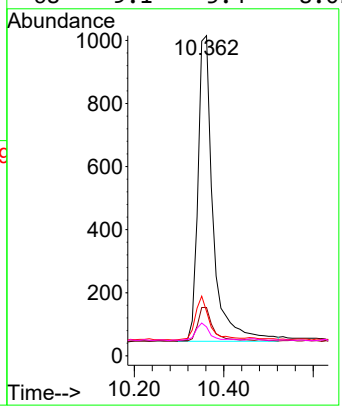


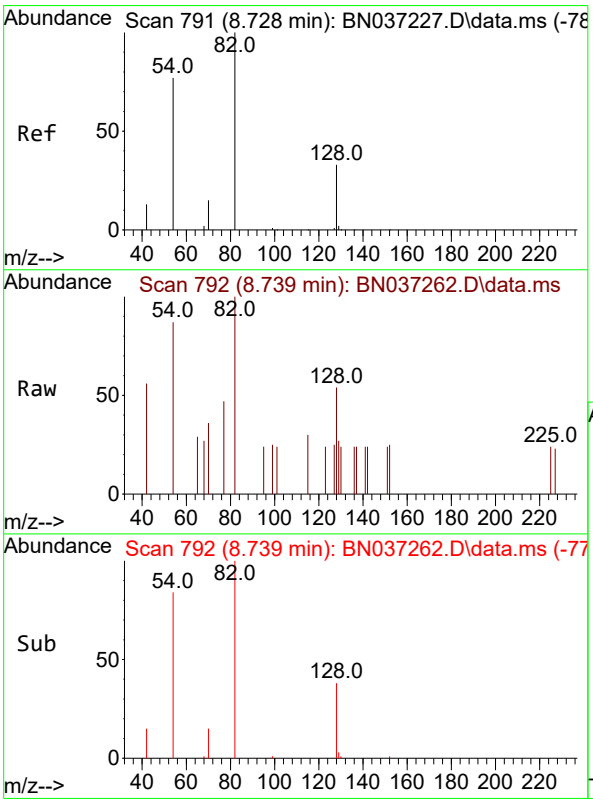
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.361 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037262.D
Acq: 14 Jun 2025 15:11

Instrument :
BNA_N
ClientSampleId :
TT174I1-20250610

Tgt Ion:136 Resp: 2285

Ion	Ratio	Lower	Upper
136	100		
137	15.1	10.6	15.8
54	13.9	9.2	13.8#
68	9.1	5.4	8.0#

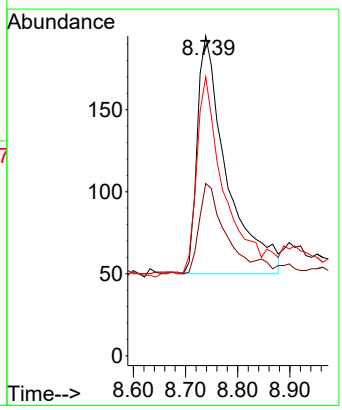


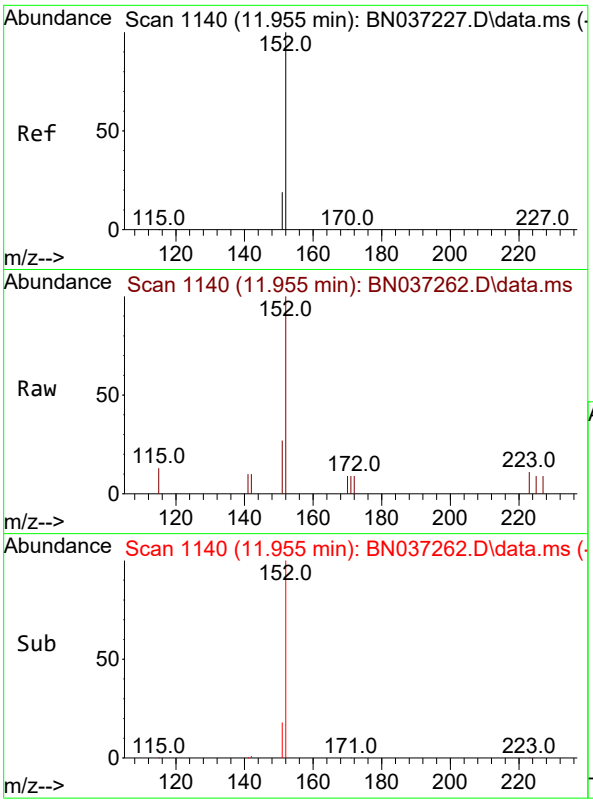


#8
Nitrobenzene-d5
Concen: 0.251 ng
RT: 8.739 min Scan# 792
Delta R.T. 0.011 min
Lab File: BN037262.D
Acq: 14 Jun 2025 15:11

Tgt Ion: 82 Resp: 566

Ion	Ratio	Lower	Upper
82	100		
128	53.8	31.2	46.8#
54	87.2	63.3	94.9



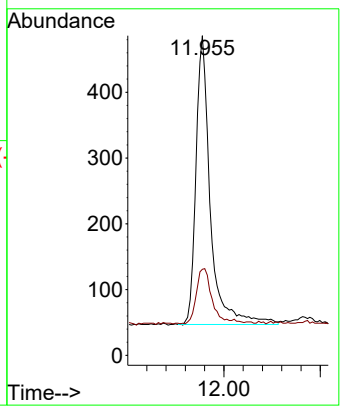


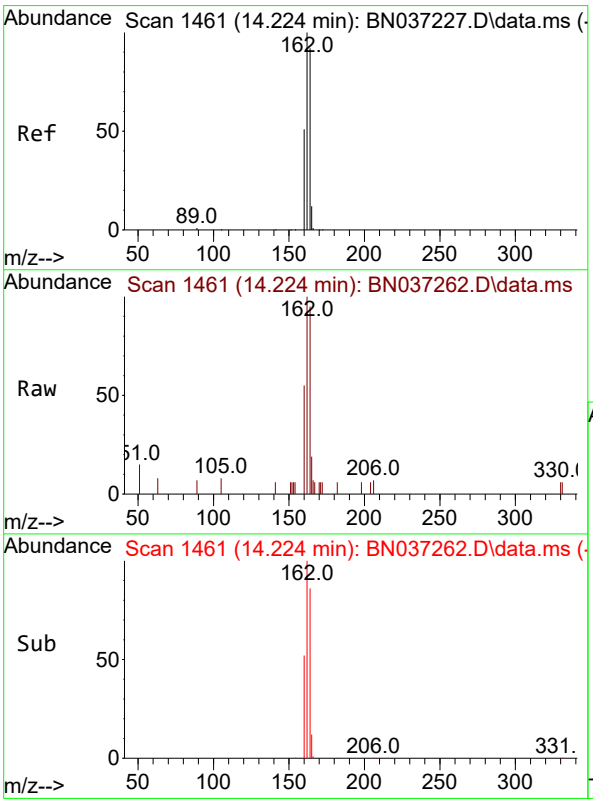
#11
2-Methylnaphthalene-d10
Concen: 0.296 ng
RT: 11.955 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN037262.D
Acq: 14 Jun 2025 15:11

Instrument :
BNA_N
ClientSampleId :
TT174I1-20250610

Tgt Ion:152 Resp: 908

Ion	Ratio	Lower	Upper
152	100		
151	20.5	17.9	26.9

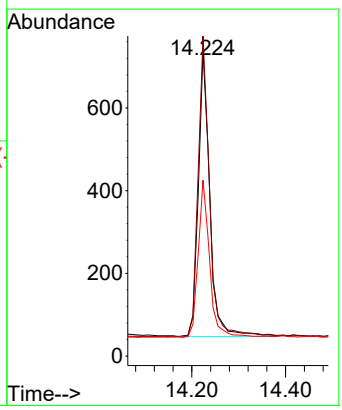


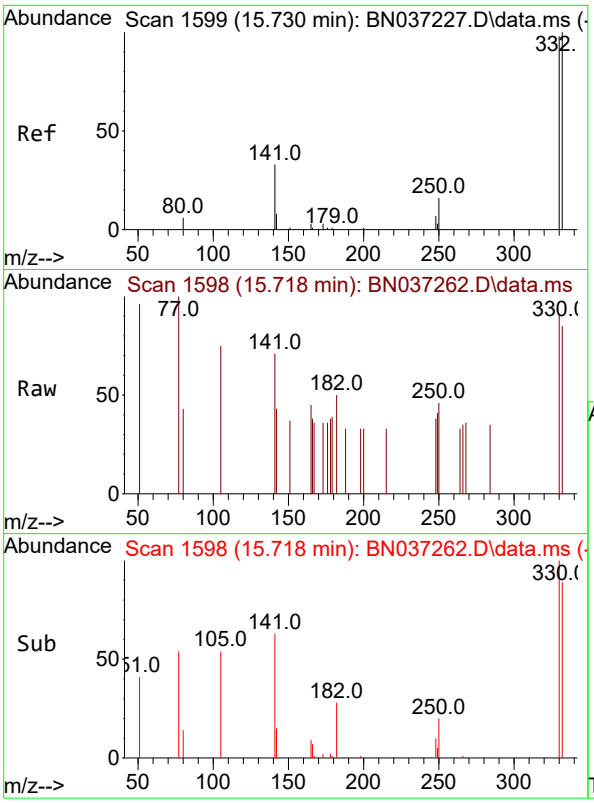


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BN037262.D
Acq: 14 Jun 2025 15:11

Tgt Ion:164 Resp: 1178

Ion	Ratio	Lower	Upper
164	100		
162	104.9	86.7	130.1
160	57.6	45.8	68.6



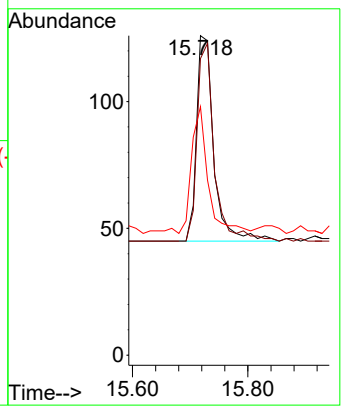


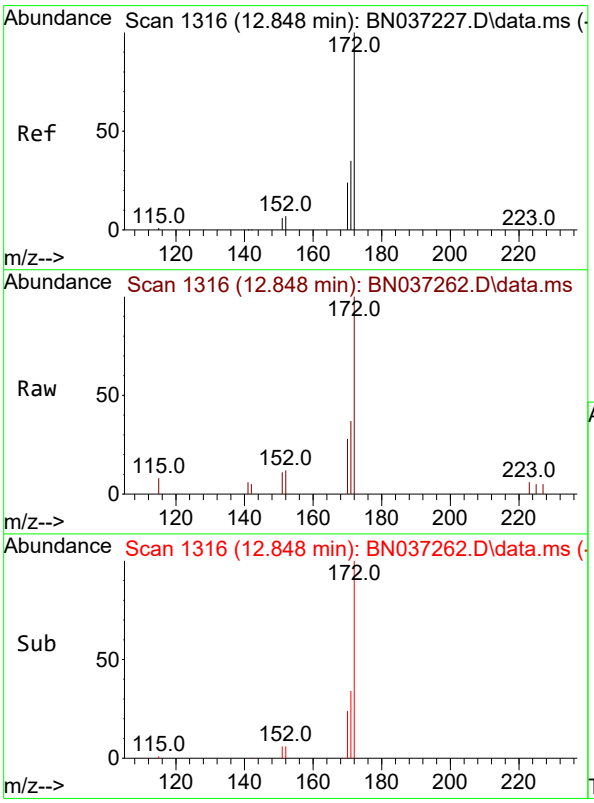
#14
2,4,6-Tribromophenol
Concen: 0.343 ng
RT: 15.718 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037262.D
Acq: 14 Jun 2025 15:11

Instrument :
BNA_N
ClientSampleId :
TT174I1-20250610

Tgt Ion:330 Resp: 168

Ion	Ratio	Lower	Upper
330	100		
332	95.8	74.9	112.3
141	60.1	45.1	67.7

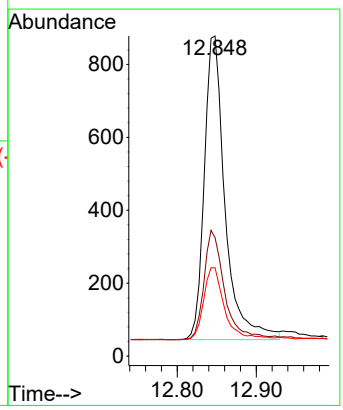


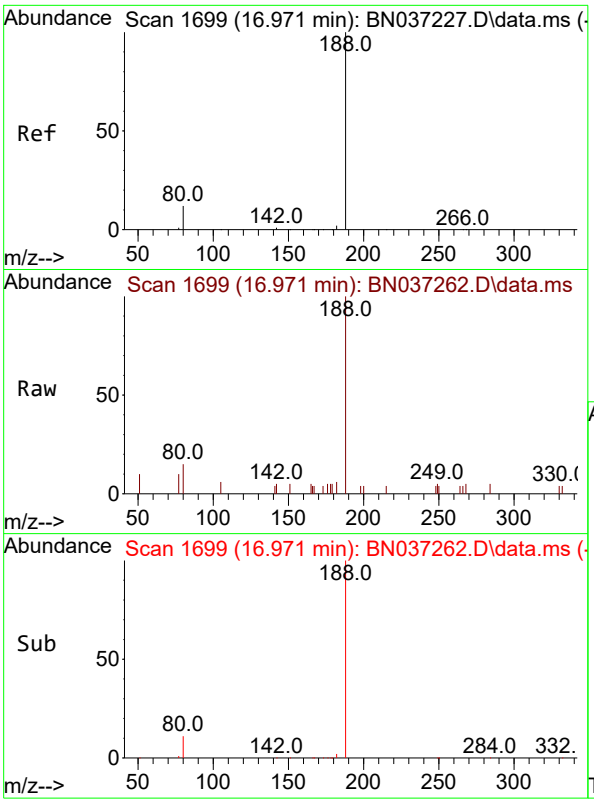


#15
2-Fluorobiphenyl
Concen: 0.308 ng
RT: 12.848 min Scan# 1316
Delta R.T. 0.000 min
Lab File: BN037262.D
Acq: 14 Jun 2025 15:11

Tgt Ion:172 Resp: 1525

Ion	Ratio	Lower	Upper
172	100		
171	37.0	29.8	44.8
170	27.6	21.1	31.7



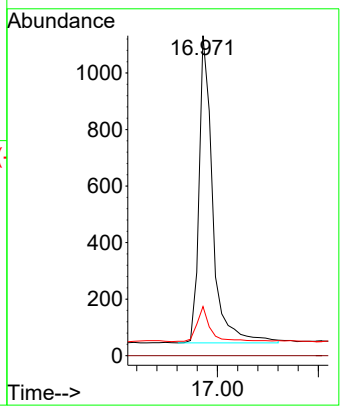


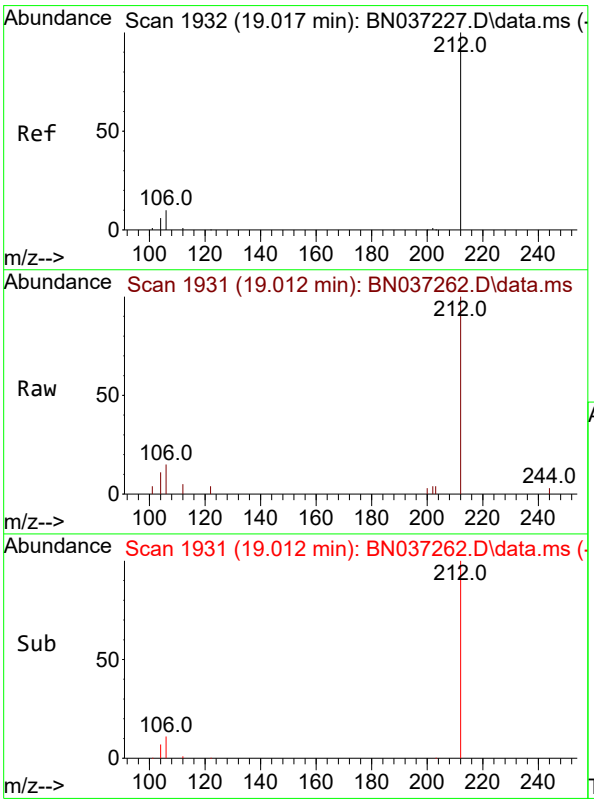
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037262.D
Acq: 14 Jun 2025 15:11

Instrument :
BNA_N
ClientSampleId :
TT174I1-20250610

Tgt Ion:188 Resp: 2047

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	15.4	12.2	18.4

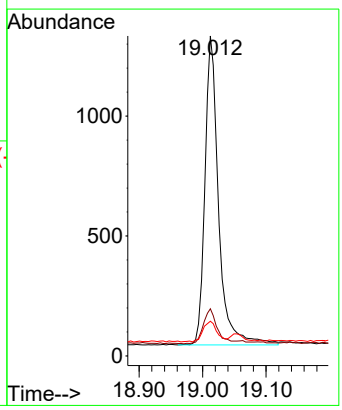


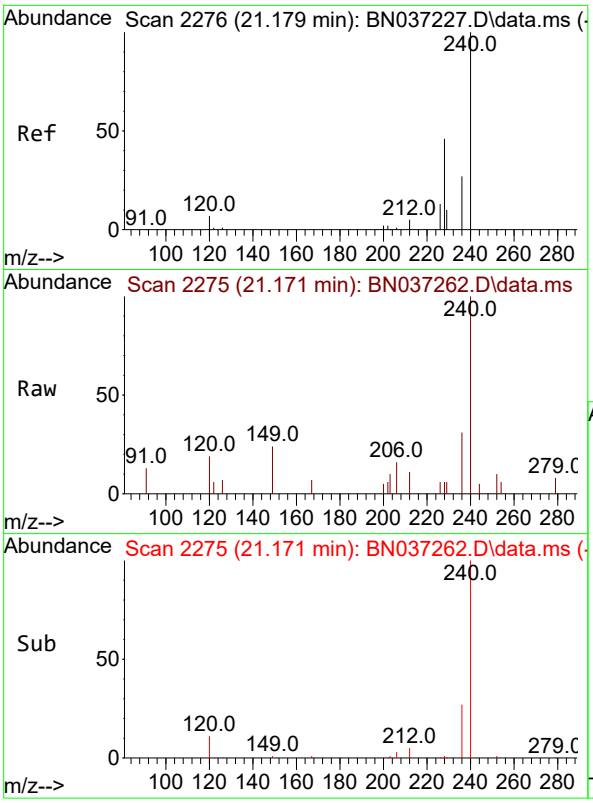


#27
Fluoranthene-d10
Concen: 0.360 ng
RT: 19.012 min Scan# 1931
Delta R.T. -0.005 min
Lab File: BN037262.D
Acq: 14 Jun 2025 15:11

Tgt Ion:212 Resp: 1926

Ion	Ratio	Lower	Upper
212	100		
106	11.3	9.3	13.9
104	6.7	5.7	8.5



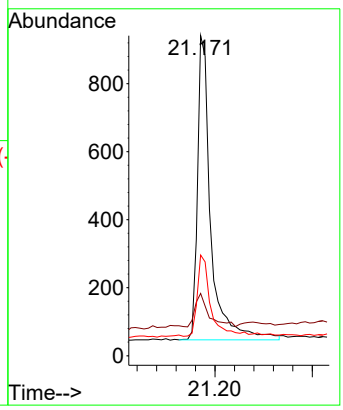


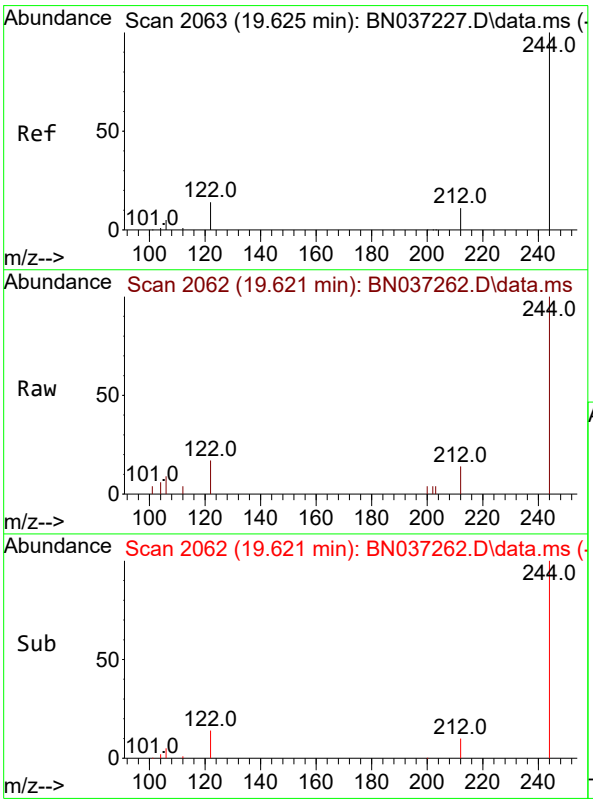
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.171 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037262.D
Acq: 14 Jun 2025 15:11

Instrument :
BNA_N
ClientSampleId :
TT174I1-20250610

Tgt Ion:240 Resp: 1682

Ion	Ratio	Lower	Upper
240	100		
120	19.4	11.3	16.9#
236	31.5	24.4	36.6

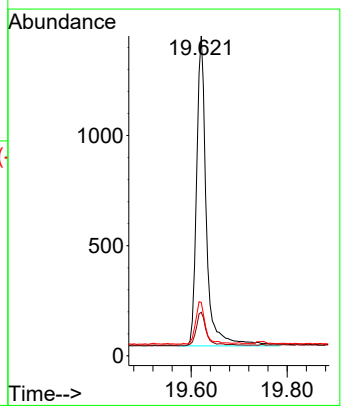


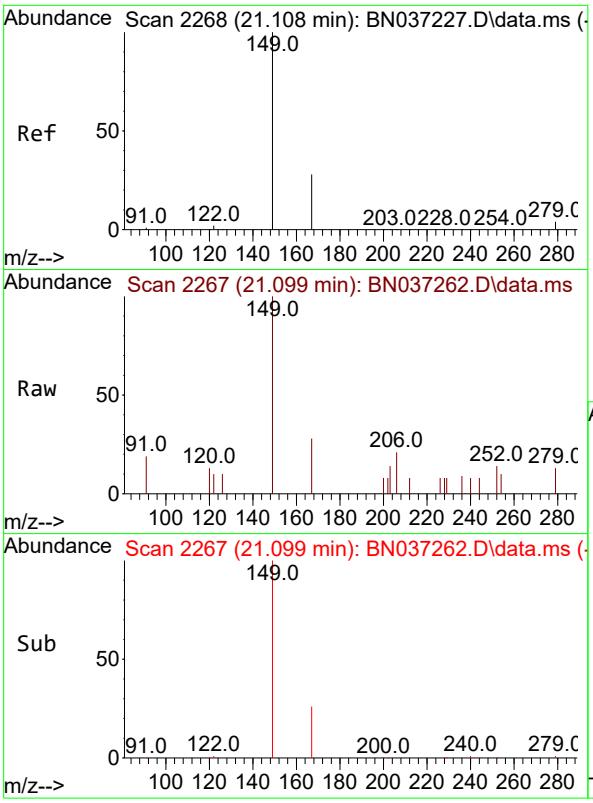


#31
Terphenyl-d14
Concen: 0.529 ng
RT: 19.621 min Scan# 2062
Delta R.T. -0.005 min
Lab File: BN037262.D
Acq: 14 Jun 2025 15:11

Tgt Ion:244 Resp: 2012

Ion	Ratio	Lower	Upper
244	100		
212	13.6	12.2	18.2
122	16.7	14.3	21.5



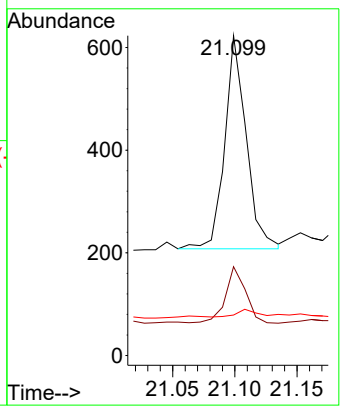


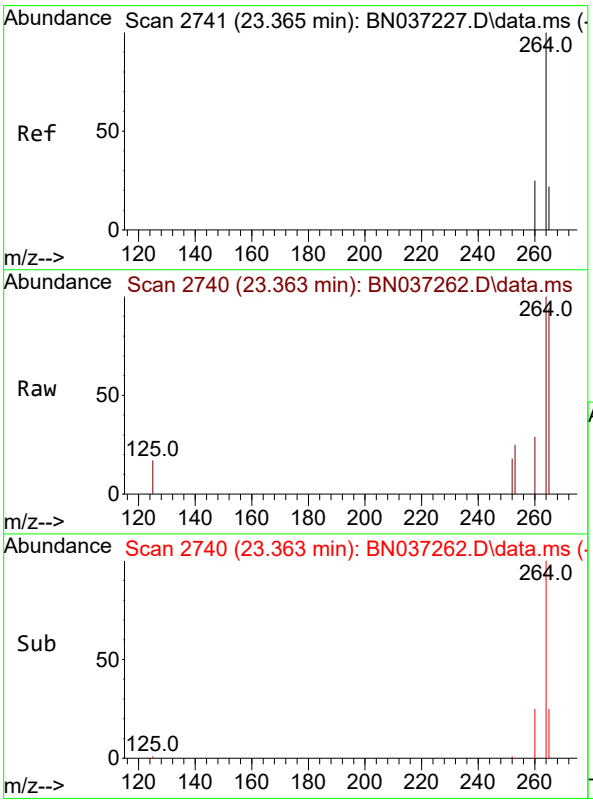
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.118 ng
RT: 21.099 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037262.D
Acq: 14 Jun 2025 15:11

Instrument :
BNA_N
ClientSampleId :
TT174I1-20250610

Tgt Ion:149 Resp: 500

Ion	Ratio	Lower	Upper
149	100		
167	24.8	21.3	31.9
279	4.2	3.3	4.9

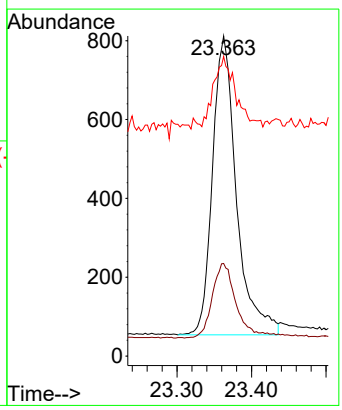




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.363 min Scan# 2740
Delta R.T. -0.003 min
Lab File: BN037262.D
Acq: 14 Jun 2025 15:11

Tgt Ion:264 Resp: 1693

Ion	Ratio	Lower	Upper
264	100		
260	28.9	22.8	34.2
265	93.6	66.4	99.6



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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/10/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/11/25
Client Sample ID:	RE134D4-20250610	SDG No.:	Q2299
Lab Sample ID:	Q2299-16	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037263.D	1	06/13/25 08:03	06/14/25 15:47	PB168458

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	1.70		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.29		30 - 150		74%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.37		30 - 150		93%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.26		55 - 111		65%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.31		53 - 106		77%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.40		58 - 132		100%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	977	7.575				
1146-65-2	Naphthalene-d8	2440	10.351				
15067-26-2	Acenaphthene-d10	1270	14.224				
1517-22-2	Phenanthrene-d10	2240	16.971				
1719-03-5	Chrysene-d12	1760	21.18				
1520-96-3	Perylene-d12	1810	23.363				

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_N\Data\BN061325\
Data File : BN037263.D
Acq On : 14 Jun 2025 15:47
Operator : RC/JU
Sample : Q2299-16
Misc :
ALS Vial : 42 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE134D4-20250610

Quant Time: Jun 16 02:43:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration

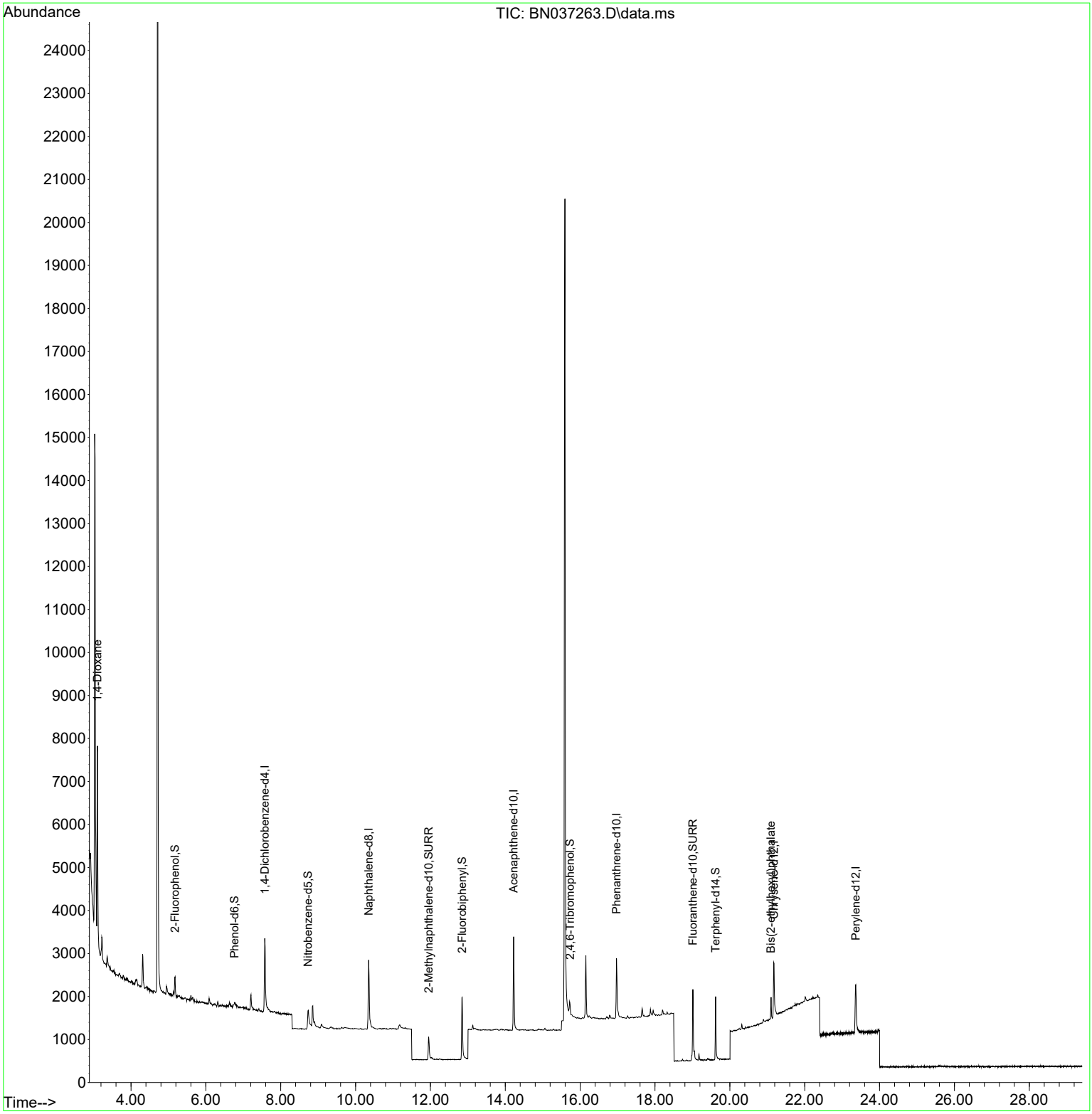
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	977	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	2442	0.400	ng	#-0.01
13) Acenaphthene-d10	14.224	164	1265	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	2241	0.400	ng	0.00
29) Chrysene-d12	21.180	240	1763	0.400	ng	0.00
35) Perylene-d12	23.363	264	1807	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	330	0.138	ng	0.00
5) Phenol-d6	6.766	99	158	0.062	ng	0.00
8) Nitrobenzene-d5	8.728	82	630	0.261	ng	0.00
11) 2-Methylnaphthalene-d10	11.950	152	963	0.294	ng	0.00
14) 2,4,6-Tribromophenol	15.730	330	167	0.318	ng	0.00
15) 2-Fluorobiphenyl	12.848	172	1635	0.308	ng	0.00
27) Fluoranthene-d10	19.012	212	2187	0.373	ng	0.00
31) Terphenyl-d14	19.621	244	1594	0.400	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.104	88	2253	1.681	ng	92
34) Bis(2-ethylhexyl)phtha...	21.099	149	484	0.109	ng	# 97

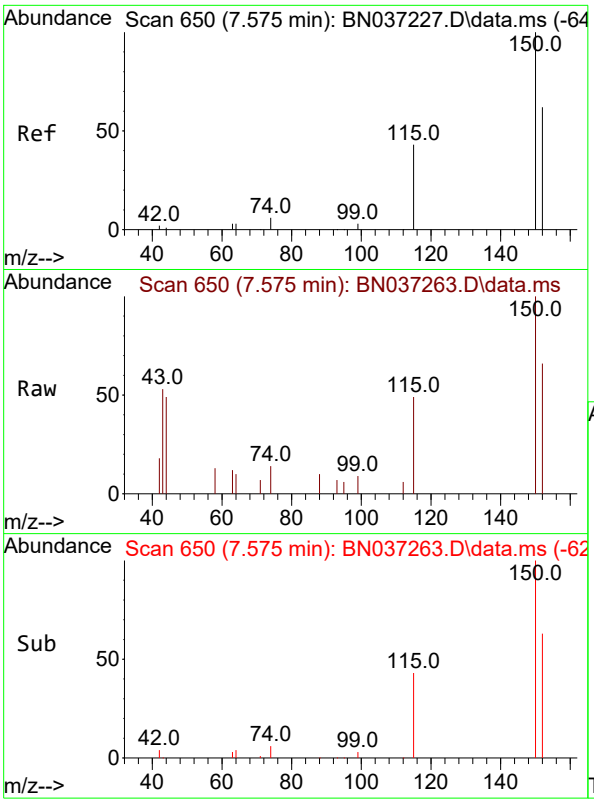
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037263.D
Acq On : 14 Jun 2025 15:47
Operator : RC/JU
Sample : Q2299-16
Misc :
ALS Vial : 42 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE134D4-20250610

Quant Time: Jun 16 02:43:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration



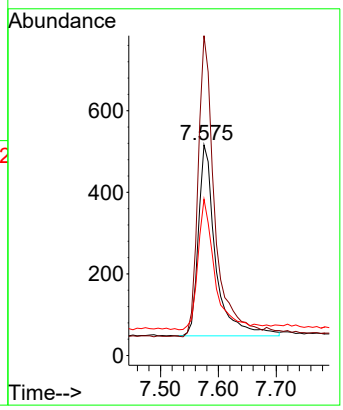


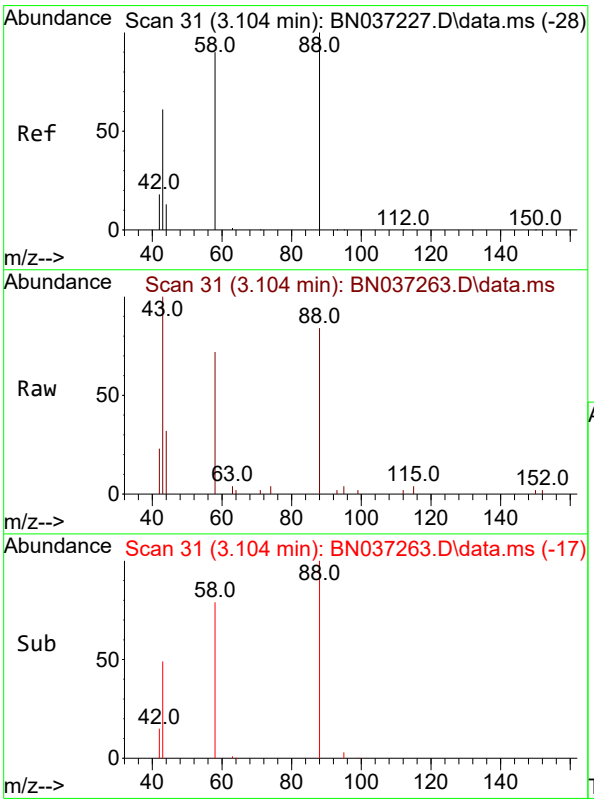
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN037263.D
Acq: 14 Jun 2025 15:47

Instrument :
BNA_N
ClientSampleId :
RE134D4-20250610

Tgt Ion:152 Resp: 977

Ion	Ratio	Lower	Upper
152	100		
150	151.9	125.2	187.8
115	74.2	58.4	87.6

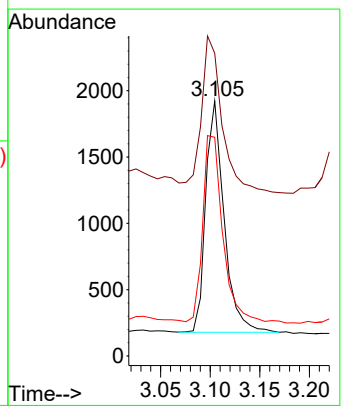


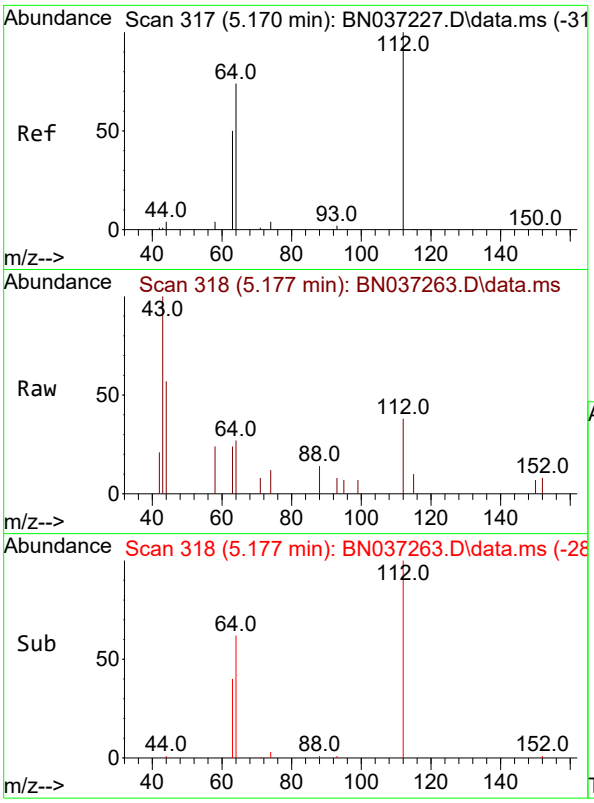


#2
1,4-Dioxane
Concen: 1.681 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037263.D
Acq: 14 Jun 2025 15:47

Tgt Ion: 88 Resp: 2253

Ion	Ratio	Lower	Upper
88	100		
43	77.8	52.6	79.0
58	89.2	73.5	110.3



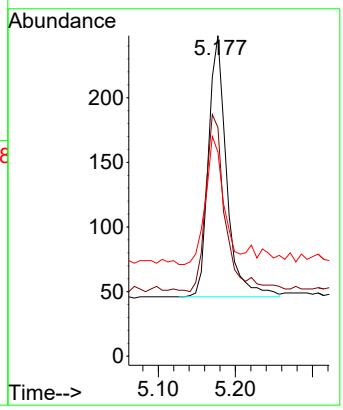


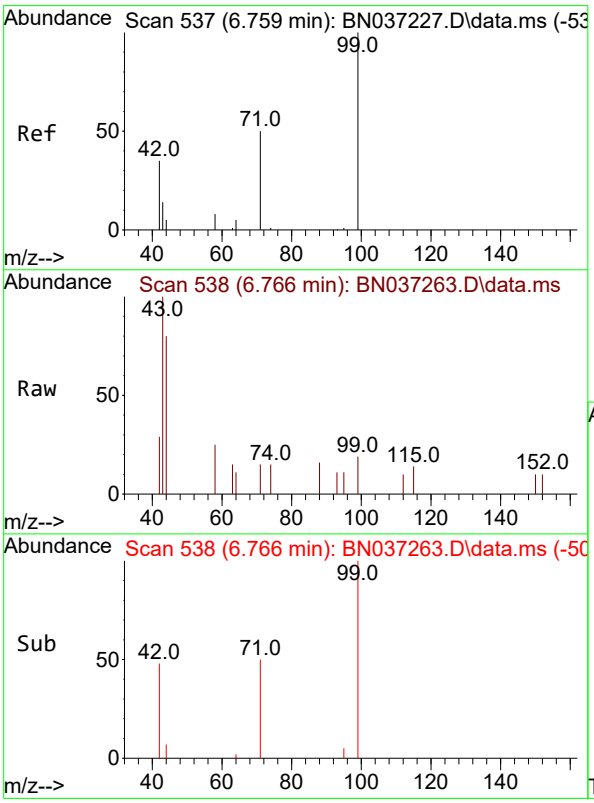
#4
2-Fluorophenol
Concen: 0.138 ng
RT: 5.177 min Scan# 31
Delta R.T. 0.008 min
Lab File: BN037263.D
Acq: 14 Jun 2025 15:47

Instrument :
BNA_N
ClientSampleId :
RE134D4-20250610

Tgt Ion:112 Resp: 330

Ion	Ratio	Lower	Upper
112	100		
64	71.5	57.2	85.8
63	48.8	39.8	59.6

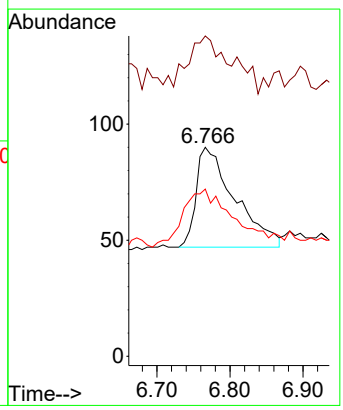


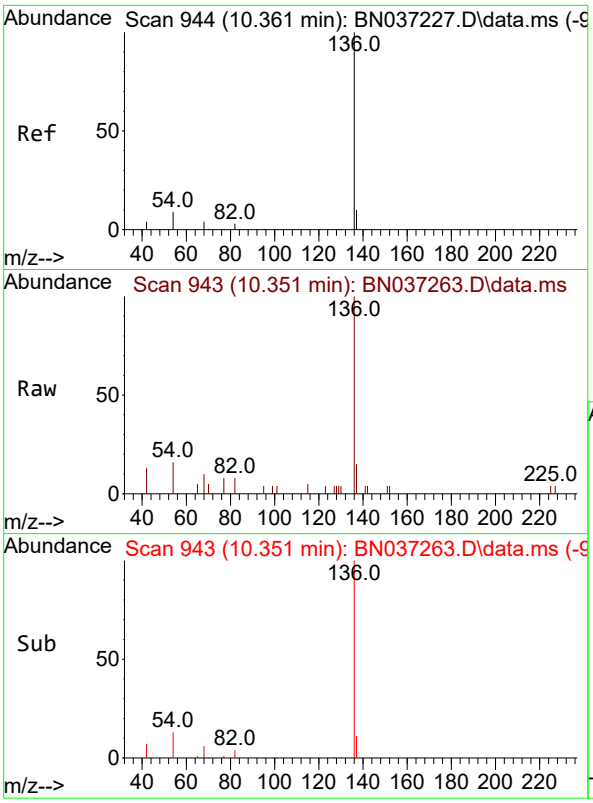


#5
Phenol-d6
Concen: 0.062 ng
RT: 6.766 min Scan# 538
Delta R.T. 0.007 min
Lab File: BN037263.D
Acq: 14 Jun 2025 15:47

Tgt Ion: 99 Resp: 158

Ion	Ratio	Lower	Upper
99	100		
42	40.5	36.2	54.4
71	78.5	42.4	63.6#



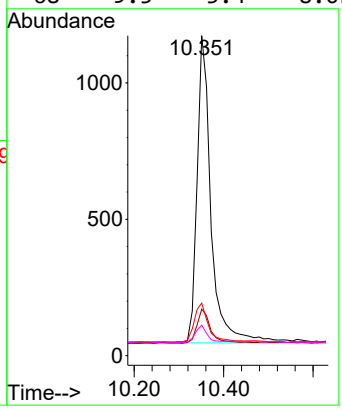


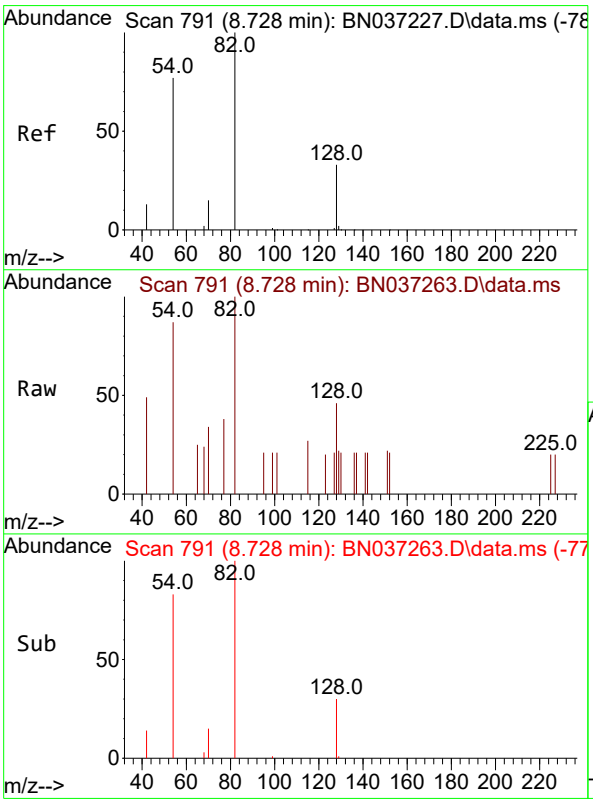
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 94
Delta R.T. -0.010 min
Lab File: BN037263.D
Acq: 14 Jun 2025 15:47

Instrument :
BNA_N
ClientSampleId :
RE134D4-20250610

Tgt Ion:136 Resp: 2442

Ion	Ratio	Lower	Upper
136	100		
137	14.6	10.6	15.8
54	16.5	9.2	13.8#
68	9.5	5.4	8.0#

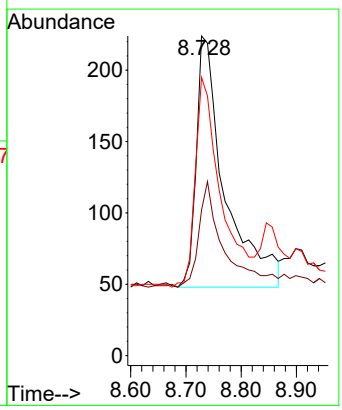


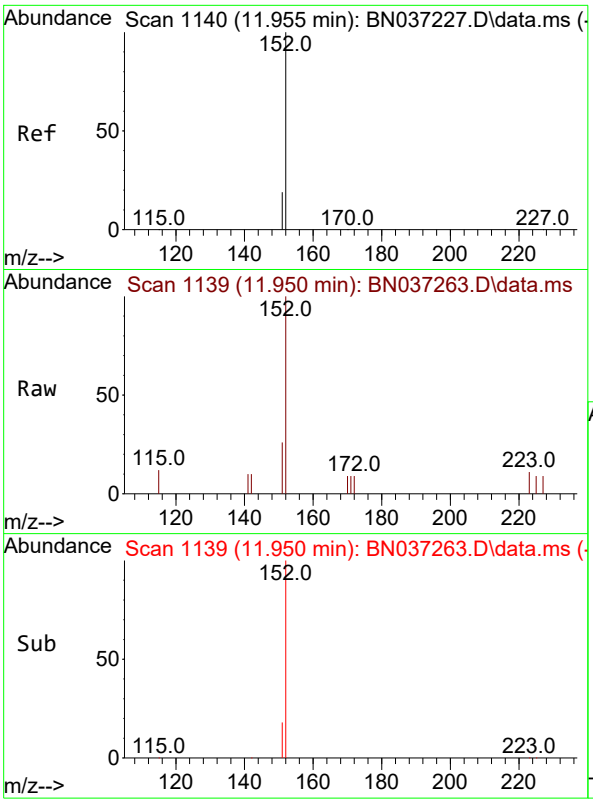


#8
Nitrobenzene-d5
Concen: 0.261 ng
RT: 8.728 min Scan# 791
Delta R.T. 0.000 min
Lab File: BN037263.D
Acq: 14 Jun 2025 15:47

Tgt Ion: 82 Resp: 630

Ion	Ratio	Lower	Upper
82	100		
128	45.5	31.2	46.8
54	87.1	63.3	94.9



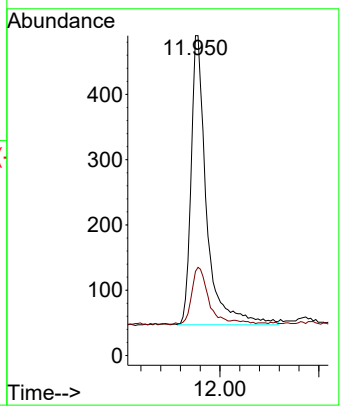


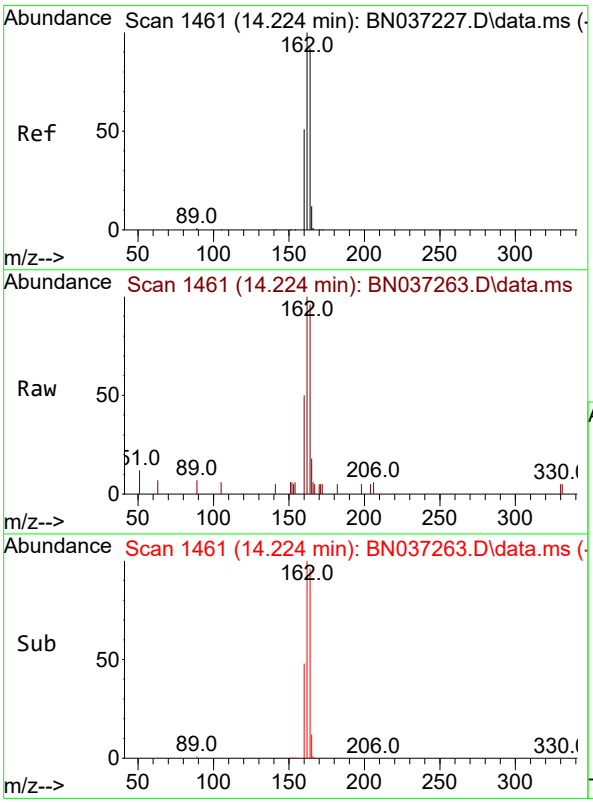
#11
2-Methylnaphthalene-d10
Concen: 0.294 ng
RT: 11.950 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN037263.D
Acq: 14 Jun 2025 15:47

Instrument :
BNA_N
ClientSampleId :
RE134D4-20250610

Tgt Ion:152 Resp: 963

Ion	Ratio	Lower	Upper
152	100		
151	20.8	17.9	26.9

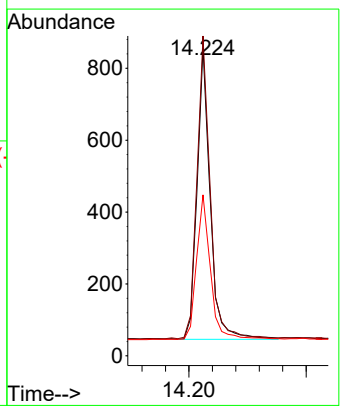


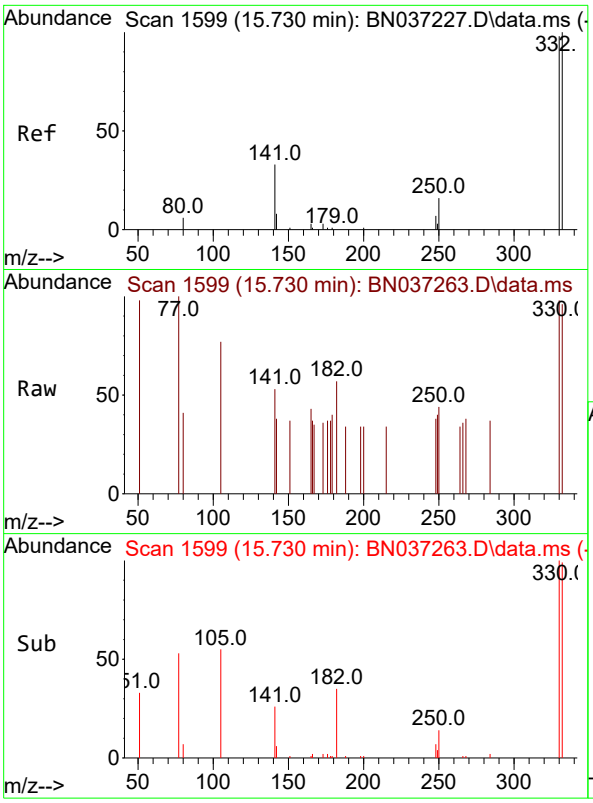


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BN037263.D
Acq: 14 Jun 2025 15:47

Tgt Ion:164 Resp: 1265

Ion	Ratio	Lower	Upper
164	100		
162	103.9	86.7	130.1
160	52.3	45.8	68.6



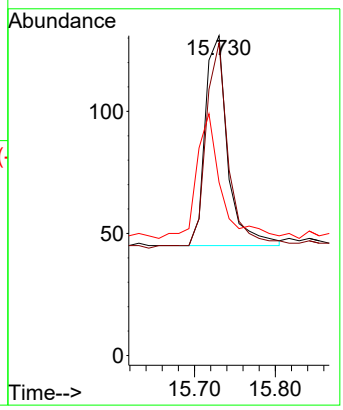


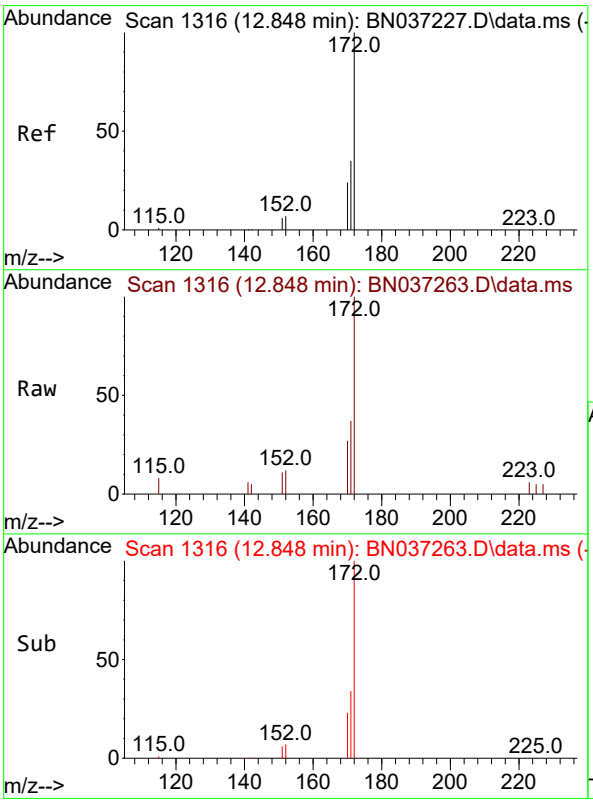
#14
2,4,6-Tribromophenol
Concen: 0.318 ng
RT: 15.730 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037263.D
Acq: 14 Jun 2025 15:47

Instrument :
BNA_N
ClientSampleId :
RE134D4-20250610

Tgt Ion:330 Resp: 167

Ion	Ratio	Lower	Upper
330	100		
332	101.8	74.9	112.3
141	63.5	45.1	67.7

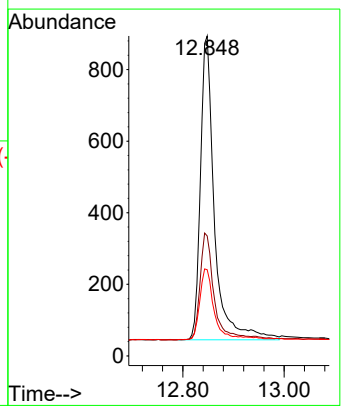


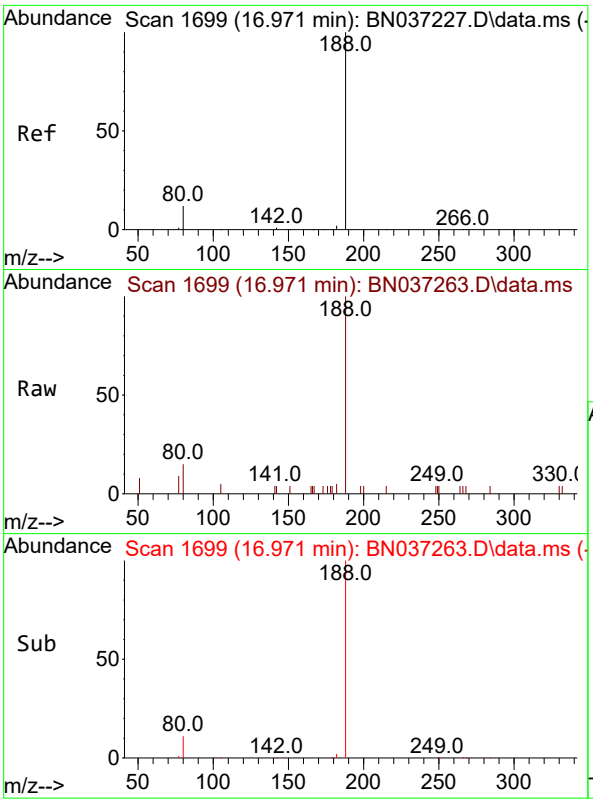


#15
2-Fluorobiphenyl
Concen: 0.308 ng
RT: 12.848 min Scan# 1316
Delta R.T. 0.000 min
Lab File: BN037263.D
Acq: 14 Jun 2025 15:47

Tgt Ion:172 Resp: 1635

Ion	Ratio	Lower	Upper
172	100		
171	37.5	29.8	44.8
170	27.0	21.1	31.7



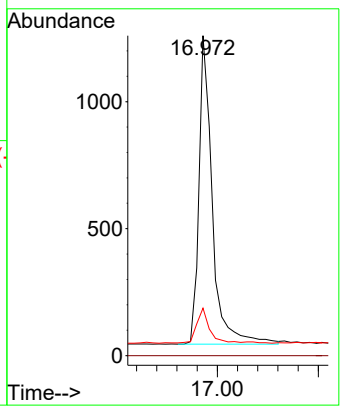


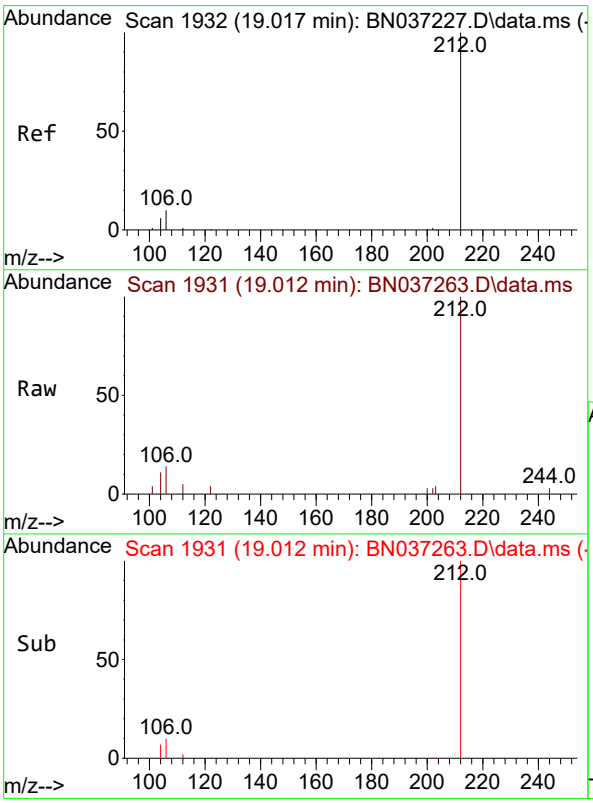
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN037263.D
Acq: 14 Jun 2025 15:47

Instrument :
BNA_N
ClientSampleId :
RE134D4-20250610

Tgt Ion:188 Resp: 2241

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	14.8	12.2	18.4

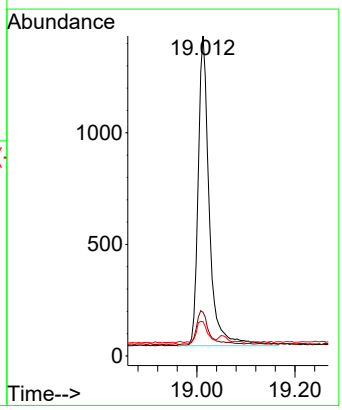


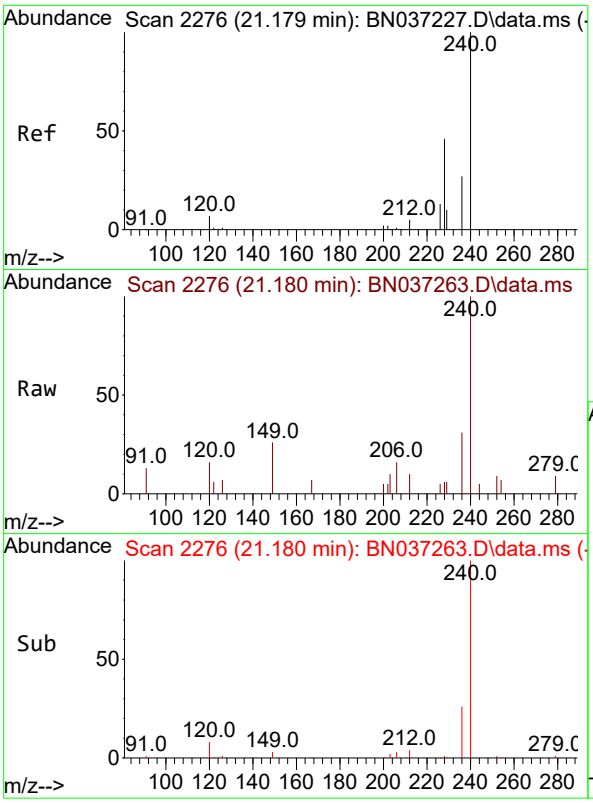


#27
Fluoranthene-d10
Concen: 0.373 ng
RT: 19.012 min Scan# 1931
Delta R.T. -0.004 min
Lab File: BN037263.D
Acq: 14 Jun 2025 15:47

Tgt Ion:212 Resp: 2187

Ion	Ratio	Lower	Upper
212	100		
106	11.8	9.3	13.9
104	6.6	5.7	8.5



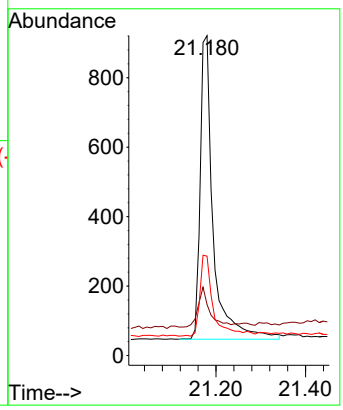


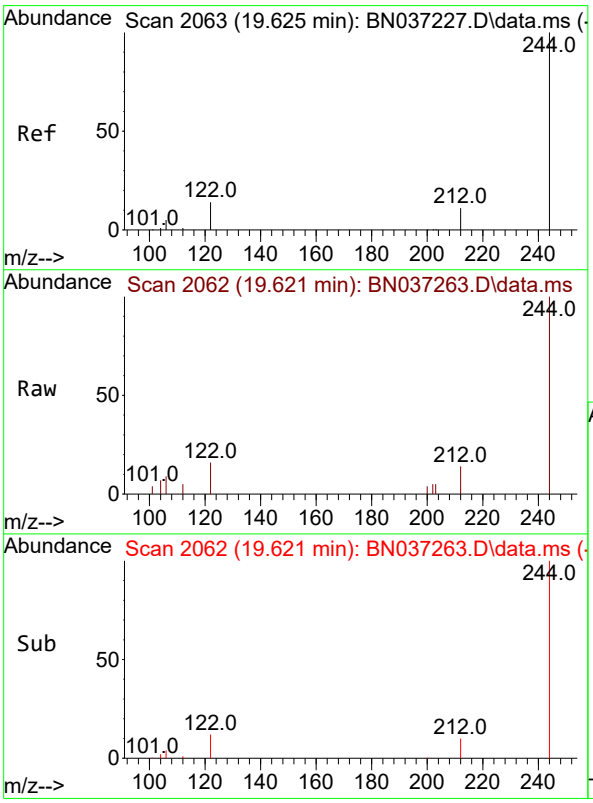
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.180 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037263.D
Acq: 14 Jun 2025 15:47

Instrument :
BNA_N
ClientSampleId :
RE134D4-20250610

Tgt Ion:240 Resp: 1763

Ion	Ratio	Lower	Upper
240	100		
120	16.0	11.3	16.9
236	31.1	24.4	36.6

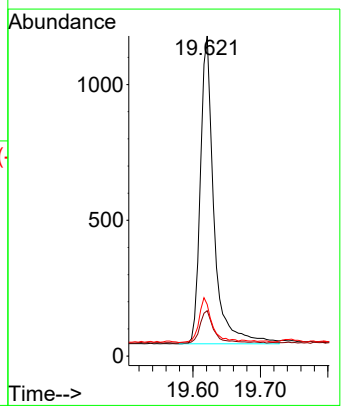


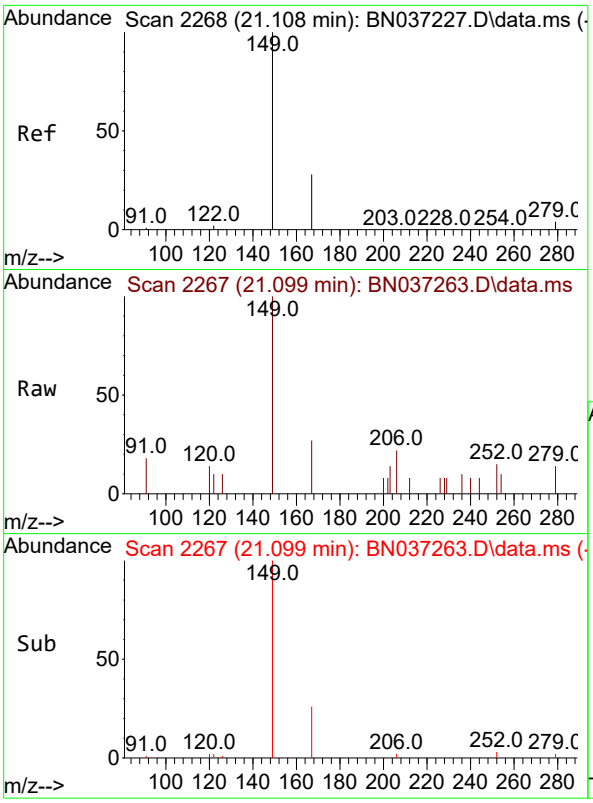


#31
Terphenyl-d14
Concen: 0.400 ng
RT: 19.621 min Scan# 2062
Delta R.T. -0.004 min
Lab File: BN037263.D
Acq: 14 Jun 2025 15:47

Tgt Ion:244 Resp: 1594

Ion	Ratio	Lower	Upper
244	100		
212	14.2	12.2	18.2
122	16.1	14.3	21.5



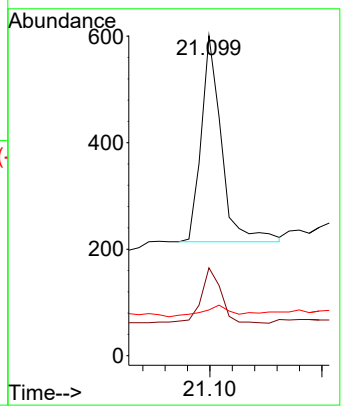


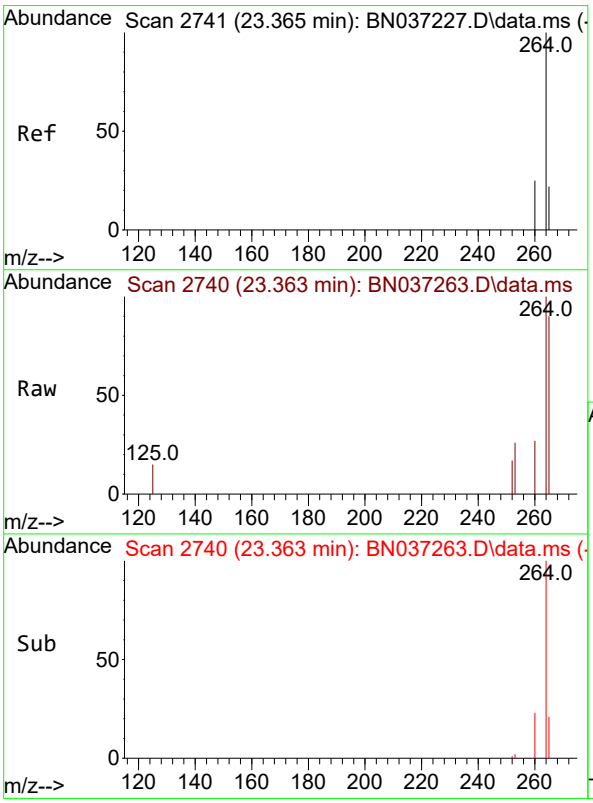
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.109 ng
RT: 21.099 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037263.D
Acq: 14 Jun 2025 15:47

Instrument :
BNA_N
ClientSampleId :
RE134D4-20250610

Tgt Ion:149 Resp: 484

Ion	Ratio	Lower	Upper
149	100		
167	25.4	21.3	31.9
279	7.4	3.3	4.9#

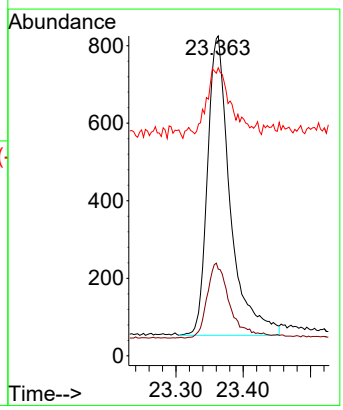




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.363 min Scan# 2740
Delta R.T. -0.003 min
Lab File: BN037263.D
Acq: 14 Jun 2025 15:47

Tgt Ion:264 Resp: 1807

Ion	Ratio	Lower	Upper
264	100		
260	27.2	22.8	34.2
265	90.1	66.4	99.6



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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/10/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/11/25
Client Sample ID:	RE134D3-20250610	SDG No.:	Q2299
Lab Sample ID:	Q2299-17	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037264.D	1	06/13/25 08:03	06/14/25 16:23	PB168458

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	6.70	E	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.32		30 - 150		80%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.41		30 - 150		103%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.29		55 - 111		72%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.32		53 - 106		81%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.41		58 - 132		103%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1010	7.575				
1146-65-2	Naphthalene-d8	2460	10.351				
15067-26-2	Acenaphthene-d10	1300	14.224				
1517-22-2	Phenanthrene-d10	2300	16.971				
1719-03-5	Chrysene-d12	2030	21.171				
1520-96-3	Perylene-d12	2090	23.36				

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_N\Data\BN061325\
Data File : BN037264.D
Acq On : 14 Jun 2025 16:23
Operator : RC/JU
Sample : Q2299-17
Misc :
ALS Vial : 43 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE134D3-20250610

Quant Time: Jun 16 02:43:41 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration

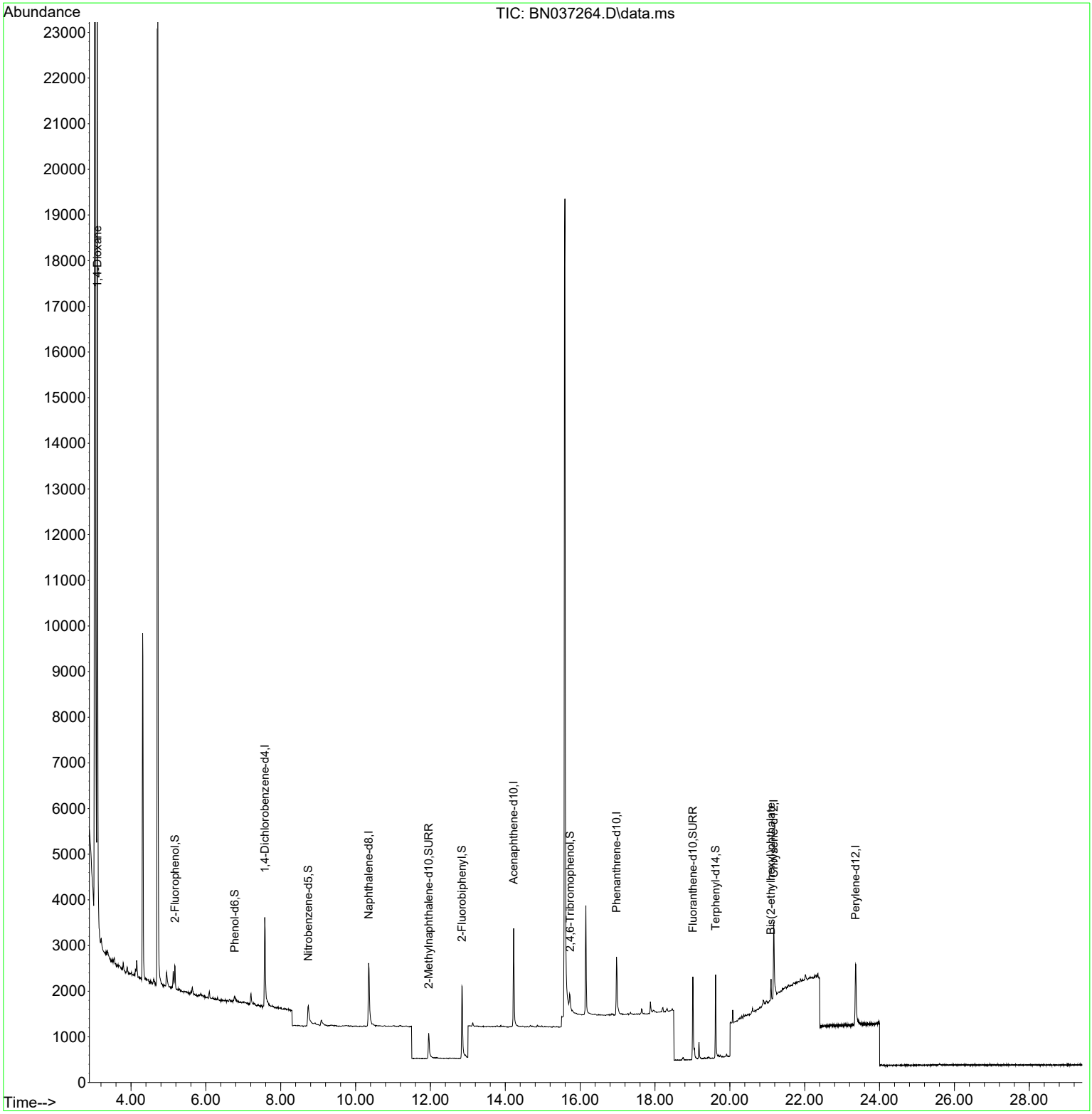
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	1012	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	2458	0.400	ng	#-0.01
13) Acenaphthene-d10	14.224	164	1295	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	2300	0.400	ng	0.00
29) Chrysene-d12	21.171	240	2027	0.400	ng	# 0.00
35) Perylene-d12	23.360	264	2087	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	366	0.147	ng	0.00
5) Phenol-d6	6.773	99	168	0.064	ng	0.01
8) Nitrobenzene-d5	8.739	82	701	0.289	ng	0.01
11) 2-Methylnaphthalene-d10	11.955	152	1060	0.321	ng	0.00
14) 2,4,6-Tribromophenol	15.730	330	199	0.370	ng	0.00
15) 2-Fluorobiphenyl	12.843	172	1753	0.322	ng	0.00
27) Fluoranthene-d10	19.012	212	2488	0.413	ng	0.00
31) Terphenyl-d14	19.621	244	1883	0.411	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.104	88	9353	6.736	ng	97
34) Bis(2-ethylhexyl)phtha...	21.099	149	448	0.088	ng	# 96

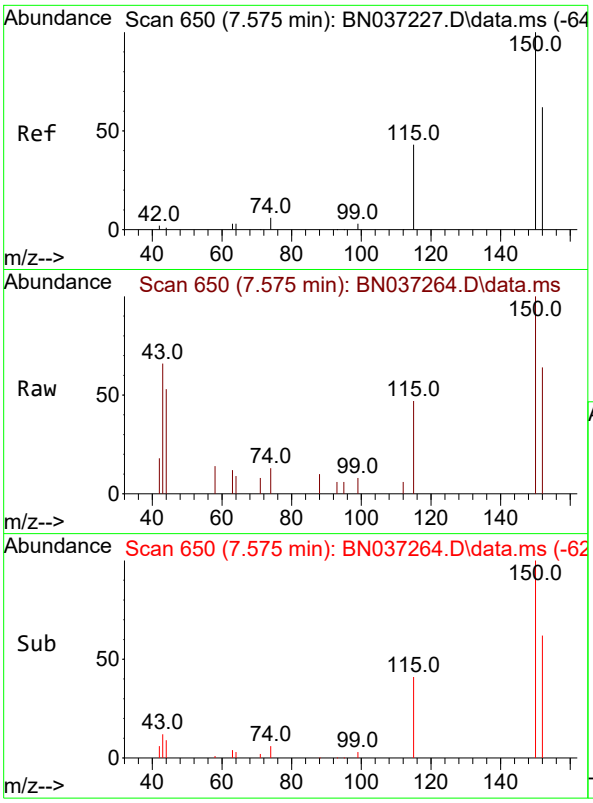
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037264.D
Acq On : 14 Jun 2025 16:23
Operator : RC/JU
Sample : Q2299-17
Misc :
ALS Vial : 43 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE134D3-20250610

Quant Time: Jun 16 02:43:41 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration



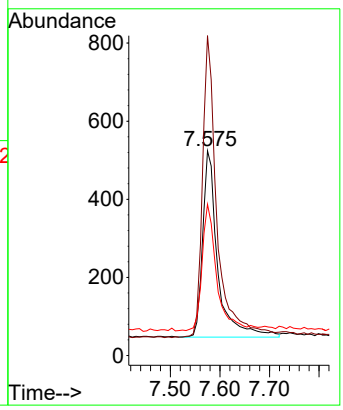


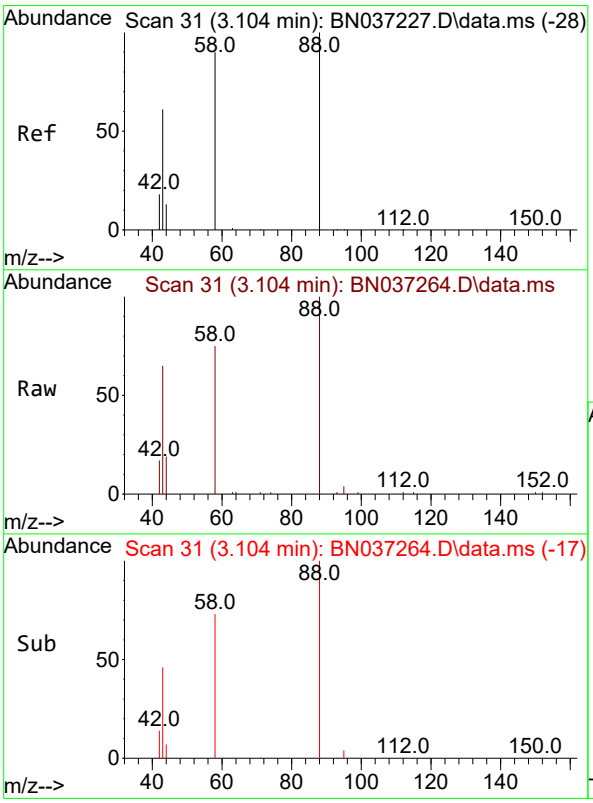
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN037264.D
Acq: 14 Jun 2025 16:23

Instrument :
BNA_N
ClientSampleId :
RE134D3-20250610

Tgt Ion:152 Resp: 1012

Ion	Ratio	Lower	Upper
152	100		
150	156.3	125.2	187.8
115	73.9	58.4	87.6

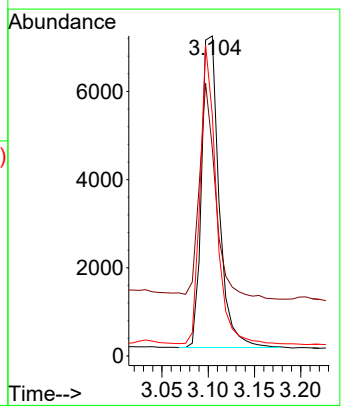


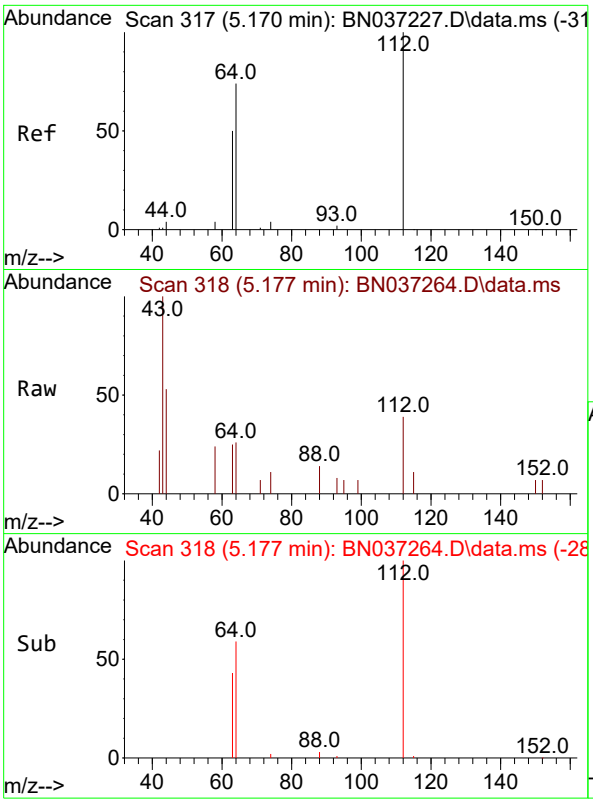


#2
1,4-Dioxane
Concen: 6.736 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037264.D
Acq: 14 Jun 2025 16:23

Tgt Ion: 88 Resp: 9353

Ion	Ratio	Lower	Upper
88	100		
43	65.5	52.6	79.0
58	86.6	73.5	110.3



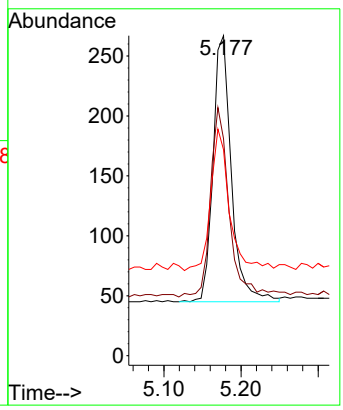


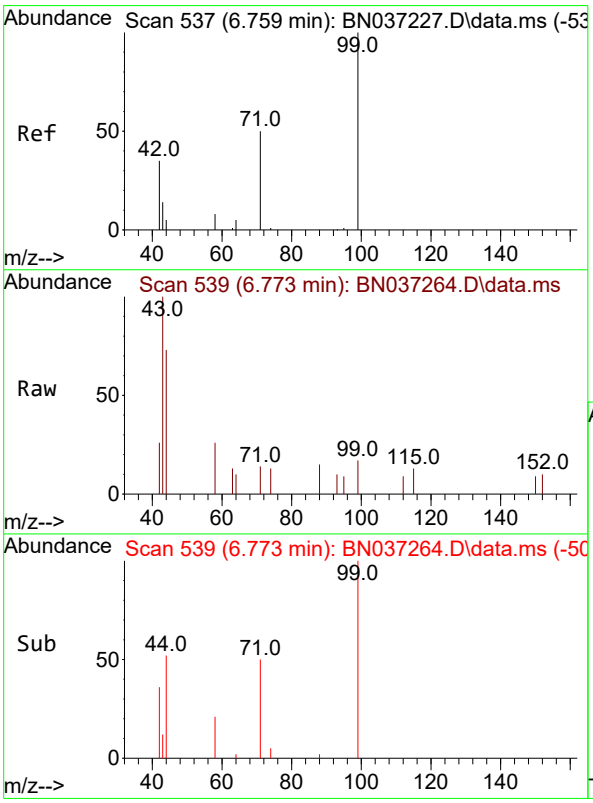
#4
2-Fluorophenol
Concen: 0.147 ng
RT: 5.177 min Scan# 31
Delta R.T. 0.007 min
Lab File: BN037264.D
Acq: 14 Jun 2025 16:23

Instrument :
BNA_N
ClientSampleId :
RE134D3-20250610

Tgt Ion:112 Resp: 366

Ion	Ratio	Lower	Upper
112	100		
64	73.8	57.2	85.8
63	54.1	39.8	59.6

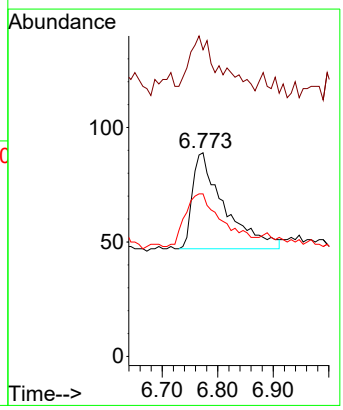


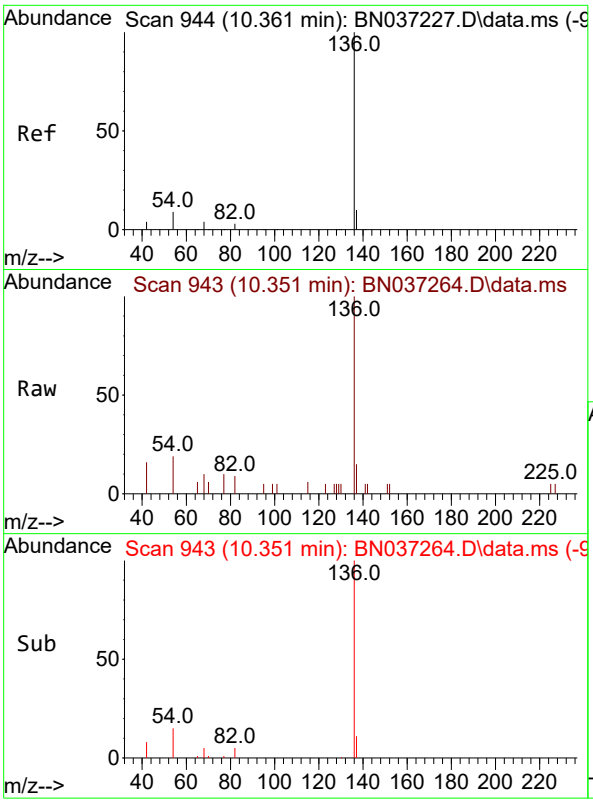


#5
Phenol-d6
Concen: 0.064 ng
RT: 6.773 min Scan# 539
Delta R.T. 0.015 min
Lab File: BN037264.D
Acq: 14 Jun 2025 16:23

Tgt Ion: 99 Resp: 168

Ion	Ratio	Lower	Upper
99	100		
42	53.6	36.2	54.4
71	63.7	42.4	63.6#



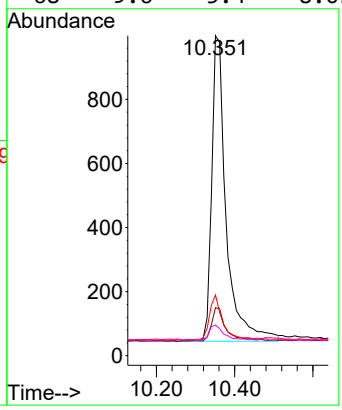


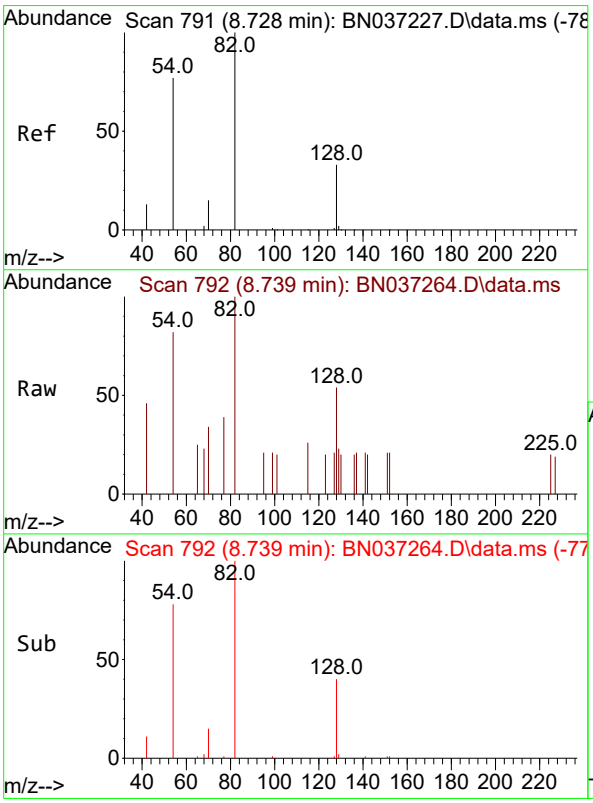
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037264.D
Acq: 14 Jun 2025 16:23

Instrument :
BNA_N
ClientSampleId :
RE134D3-20250610

Tgt Ion:136 Resp: 2458

Ion	Ratio	Lower	Upper
136	100		
137	15.0	10.6	15.8
54	19.0	9.2	13.8#
68	9.6	5.4	8.0#

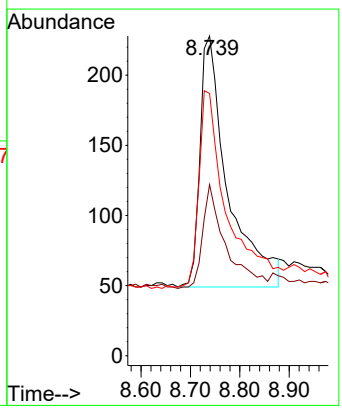


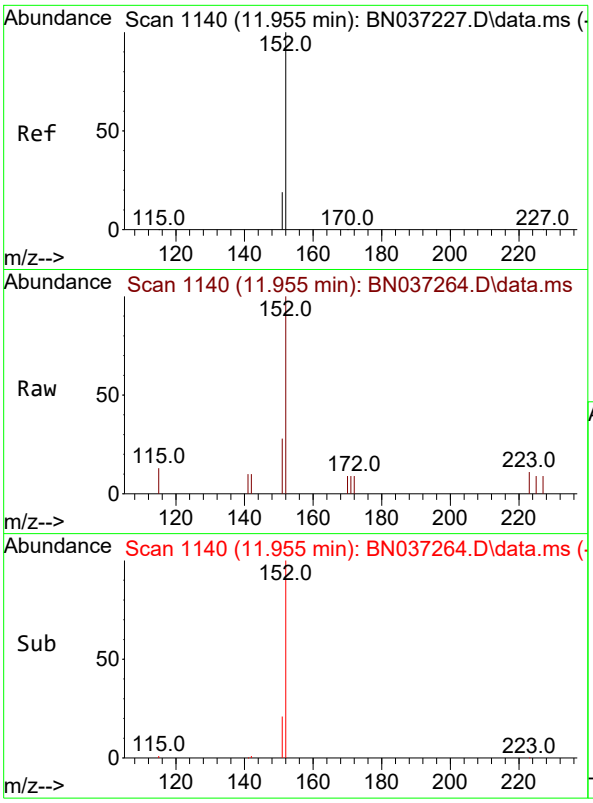


#8
Nitrobenzene-d5
Concen: 0.289 ng
RT: 8.739 min Scan# 792
Delta R.T. 0.011 min
Lab File: BN037264.D
Acq: 14 Jun 2025 16:23

Tgt Ion: 82 Resp: 701

Ion	Ratio	Lower	Upper
82	100		
128	53.5	31.2	46.8#
54	82.0	63.3	94.9



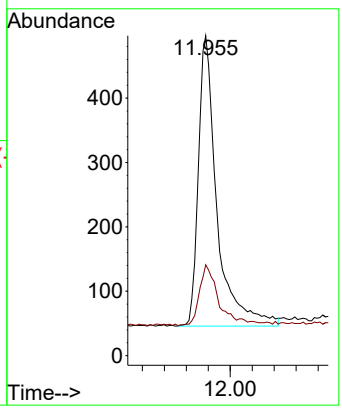


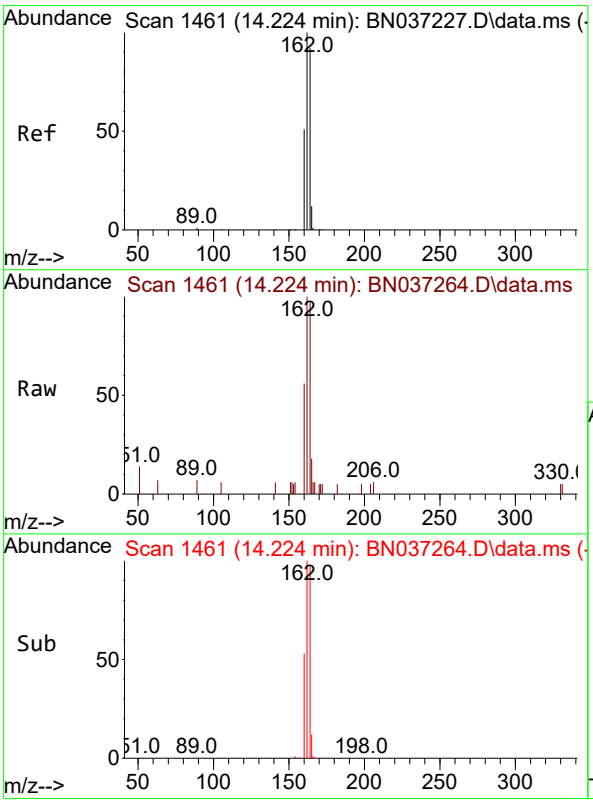
#11
2-Methylnaphthalene-d10
Concen: 0.321 ng
RT: 11.955 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN037264.D
Acq: 14 Jun 2025 16:23

Instrument :
BNA_N
ClientSampleId :
RE134D3-20250610

Tgt Ion:152 Resp: 1060

Ion	Ratio	Lower	Upper
152	100		
151	21.7	17.9	26.9

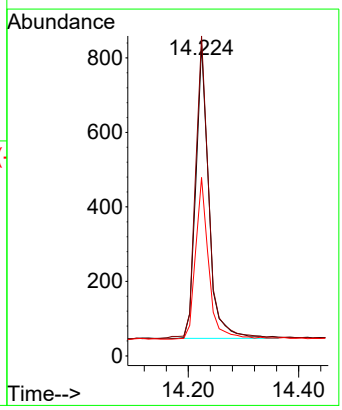


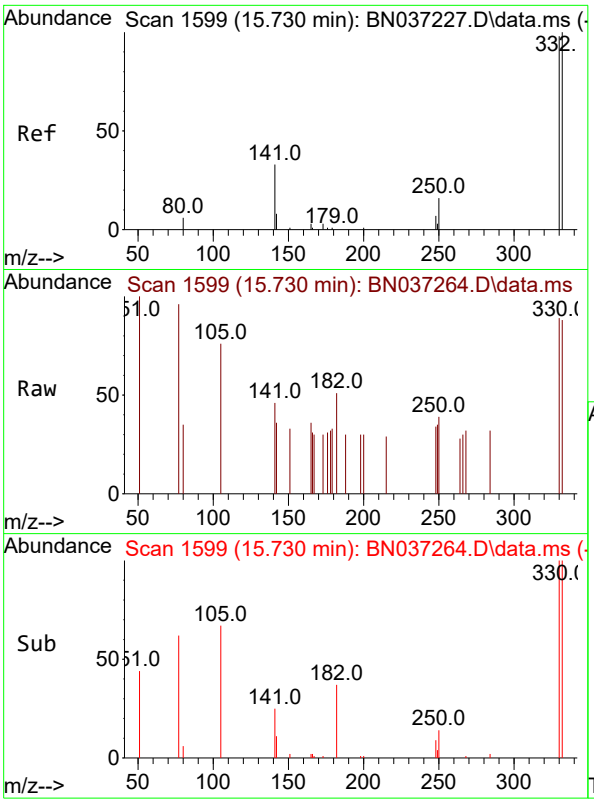


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BN037264.D
Acq: 14 Jun 2025 16:23

Tgt Ion:164 Resp: 1295

Ion	Ratio	Lower	Upper
164	100		
162	102.8	86.7	130.1
160	57.3	45.8	68.6



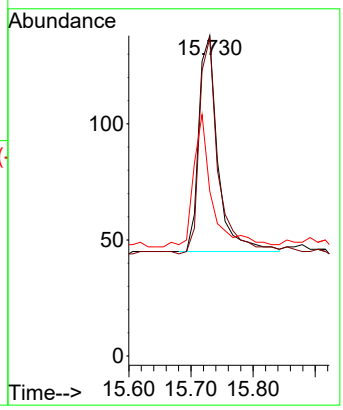


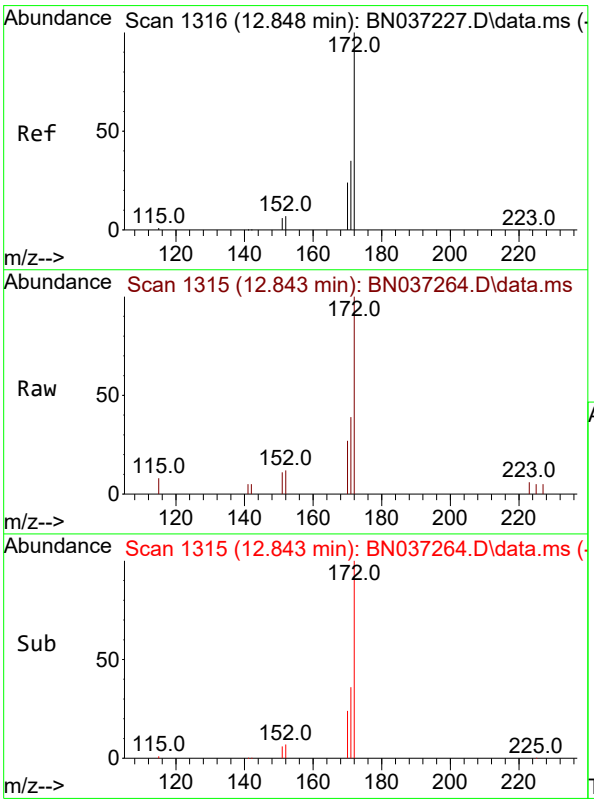
#14
2,4,6-Tribromophenol
Concen: 0.370 ng
RT: 15.730 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037264.D
Acq: 14 Jun 2025 16:23

Instrument :
BNA_N
ClientSampleId :
RE134D3-20250610

Tgt Ion:330 Resp: 199

Ion	Ratio	Lower	Upper
330	100		
332	103.0	74.9	112.3
141	59.3	45.1	67.7

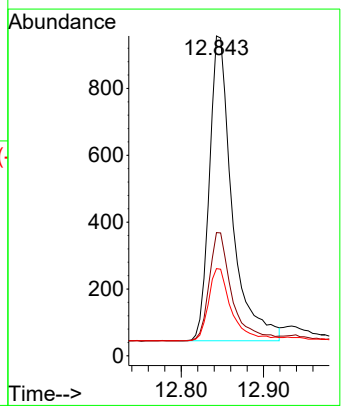


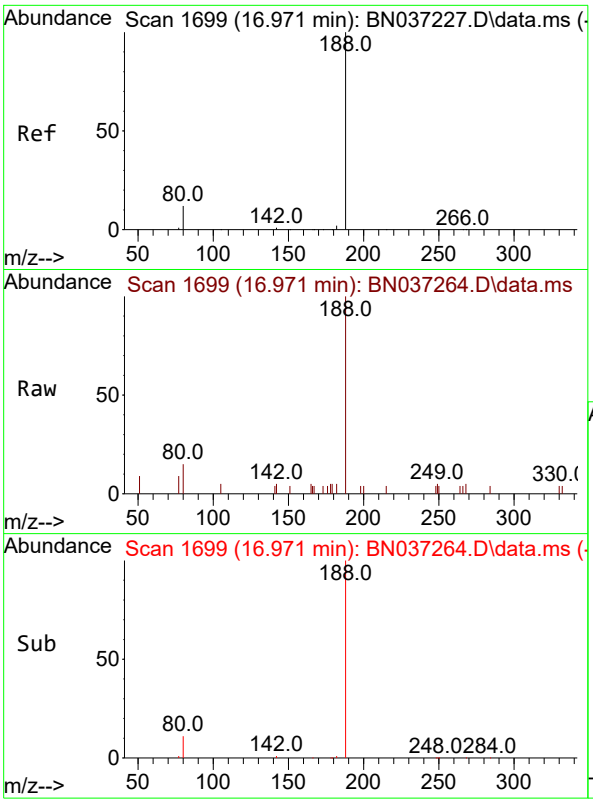


#15
2-Fluorobiphenyl
Concen: 0.322 ng
RT: 12.843 min Scan# 1315
Delta R.T. -0.005 min
Lab File: BN037264.D
Acq: 14 Jun 2025 16:23

Tgt Ion:172 Resp: 1753

Ion	Ratio	Lower	Upper
172	100		
171	38.6	29.8	44.8
170	27.3	21.1	31.7



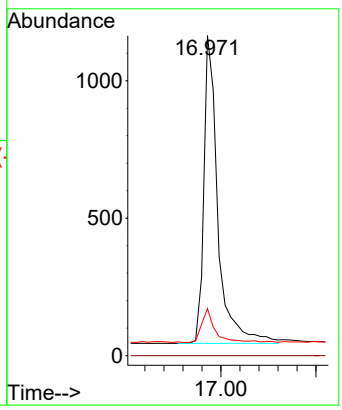


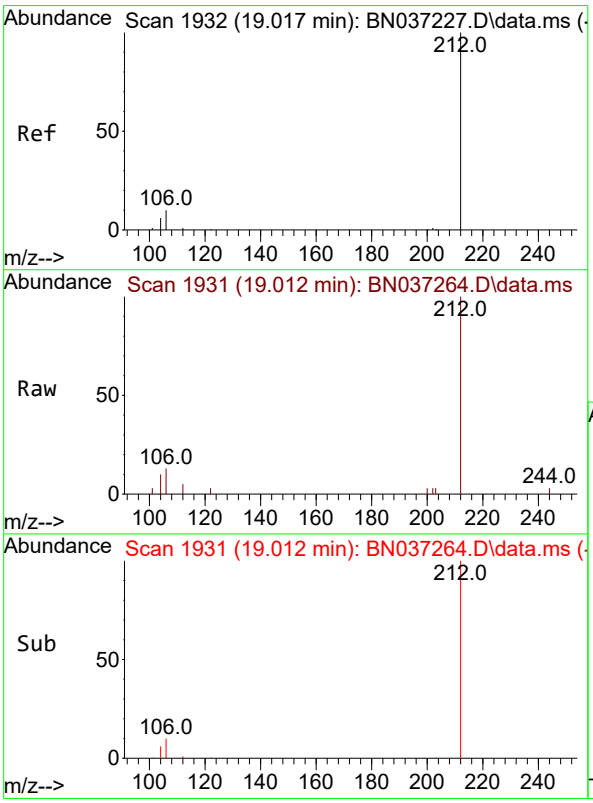
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037264.D
Acq: 14 Jun 2025 16:23

Instrument :
BNA_N
ClientSampleId :
RE134D3-20250610

Tgt Ion:188 Resp: 2300

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	14.7	12.2	18.4

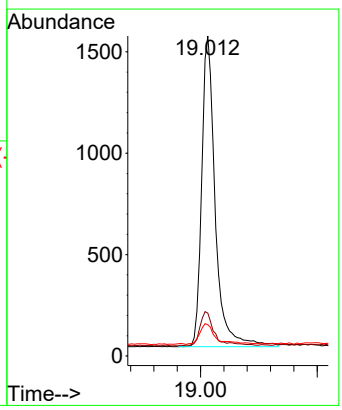


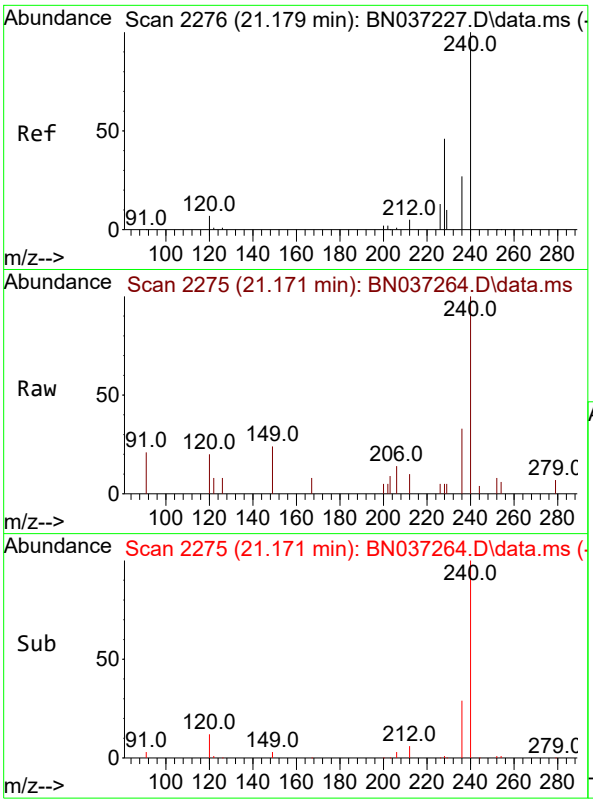


#27
Fluoranthene-d10
Concen: 0.413 ng
RT: 19.012 min Scan# 1931
Delta R.T. -0.004 min
Lab File: BN037264.D
Acq: 14 Jun 2025 16:23

Tgt Ion:212 Resp: 2488

Ion	Ratio	Lower	Upper
212	100		
106	11.8	9.3	13.9
104	7.9	5.7	8.5



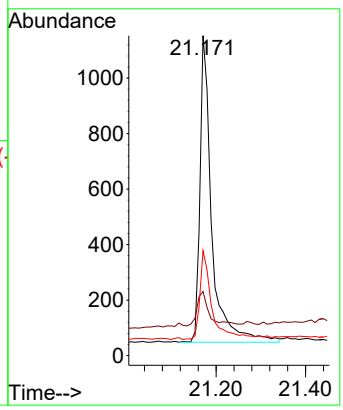


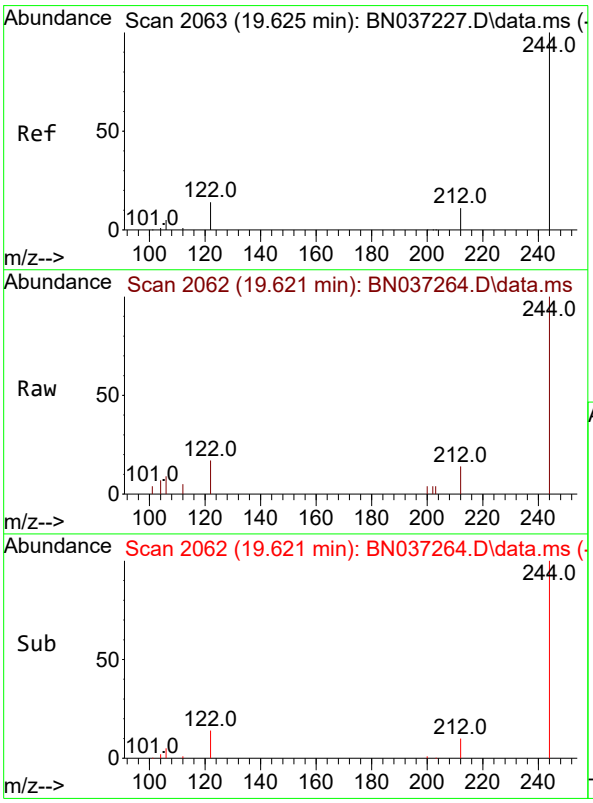
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.171 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037264.D
Acq: 14 Jun 2025 16:23

Instrument :
BNA_N
ClientSampleId :
RE134D3-20250610

Tgt Ion:240 Resp: 2027

Ion	Ratio	Lower	Upper
240	100		
120	20.0	11.3	16.9#
236	32.8	24.4	36.6

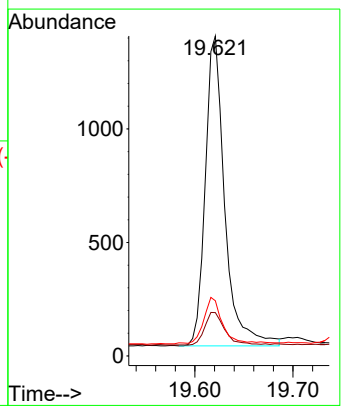


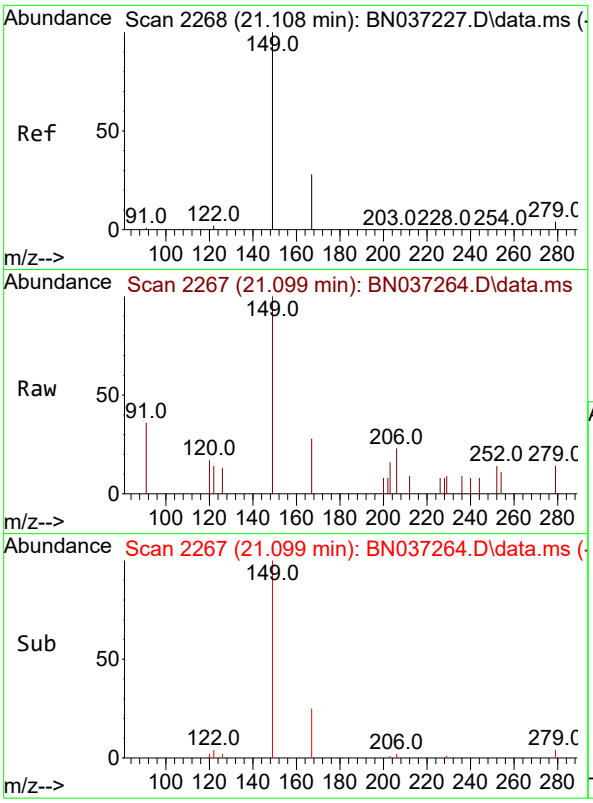


#31
Terphenyl-d14
Concen: 0.411 ng
RT: 19.621 min Scan# 2062
Delta R.T. -0.004 min
Lab File: BN037264.D
Acq: 14 Jun 2025 16:23

Tgt Ion:244 Resp: 1883

Ion	Ratio	Lower	Upper
244	100		
212	13.6	12.2	18.2
122	17.2	14.3	21.5



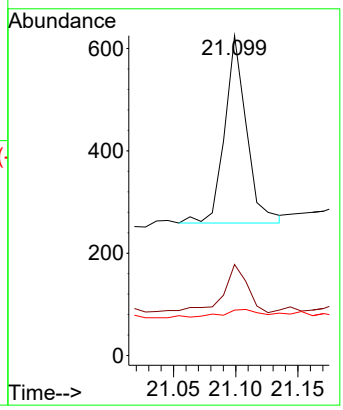


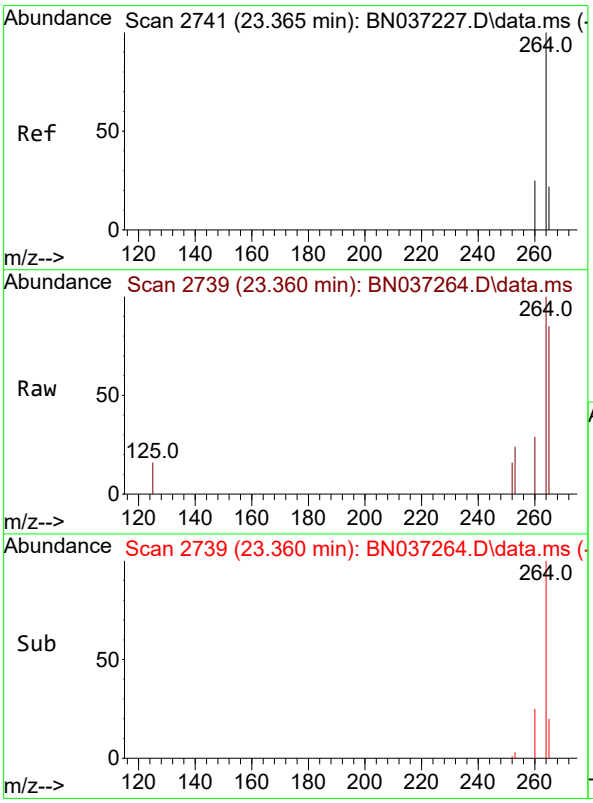
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.088 ng
RT: 21.099 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037264.D
Acq: 14 Jun 2025 16:23

Instrument :
BNA_N
ClientSampleId :
RE134D3-20250610

Tgt Ion:149 Resp: 448

Ion	Ratio	Lower	Upper
149	100		
167	27.9	21.3	31.9
279	8.0	3.3	4.9#

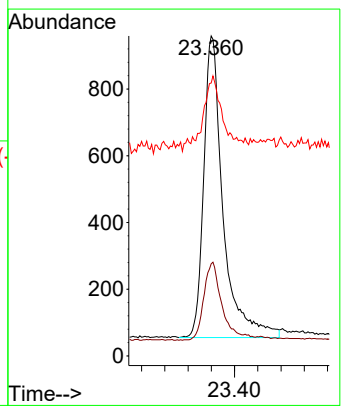




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.360 min Scan# 2739
Delta R.T. -0.006 min
Lab File: BN037264.D
Acq: 14 Jun 2025 16:23

Tgt Ion:264 Resp: 2087

Ion	Ratio	Lower	Upper
264	100		
260	28.8	22.8	34.2
265	85.3	66.4	99.6



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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/10/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/11/25
Client Sample ID:	RE134D3-20250610DL	SDG No.:	Q2299
Lab Sample ID:	Q2299-17DL	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037286.D	2	06/13/25 08:03	06/16/25 11:39	PB168458

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	6.60	D	0.13	0.40	0.40	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.31		30 - 150		79%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.39		30 - 150		98%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.28		55 - 111		69%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.30		53 - 106		75%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.44		58 - 132		110%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	929	7.575				
1146-65-2	Naphthalene-d8	2310	10.362				
15067-26-2	Acenaphthene-d10	1310	14.224				
1517-22-2	Phenanthrene-d10	2320	16.971				
1719-03-5	Chrysene-d12	1780	21.18				
1520-96-3	Perylene-d12	1750	23.36				

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_N\Data\BN061625\
Data File : BN037286.D
Acq On : 16 Jun 2025 11:39
Operator : RC/JU
Sample : Q2299-17DL 2X
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE134D3-20250610DL

Quant Time: Jun 16 12:25:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration

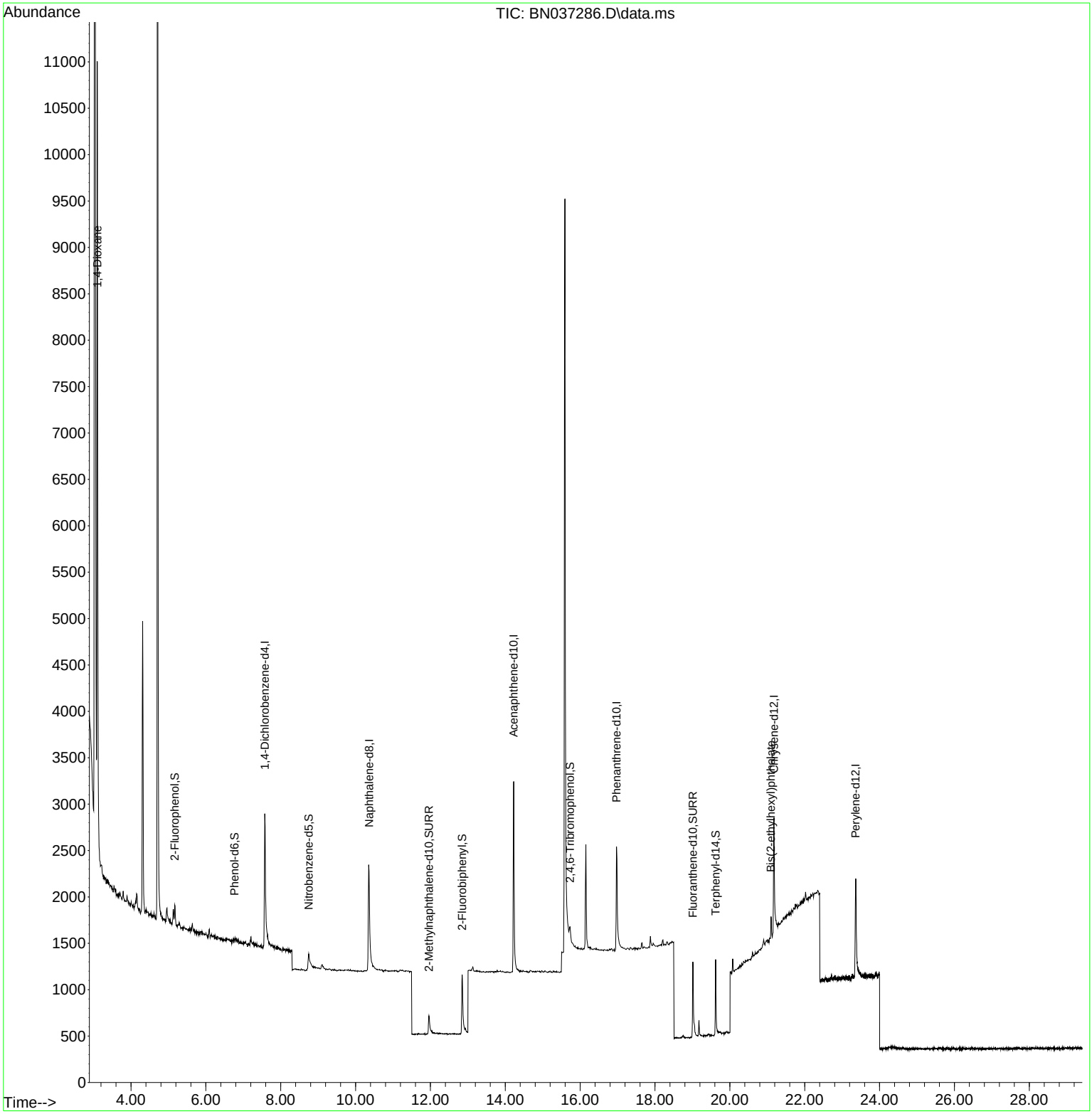
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	929	0.400	ng	0.00
7) Naphthalene-d8	10.362	136	2314	0.400	ng	# 0.00
13) Acenaphthene-d10	14.224	164	1314	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	2315	0.400	ng	0.00
29) Chrysene-d12	21.180	240	1782	0.400	ng	# 0.00
35) Perylene-d12	23.360	264	1749	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.170	112	156	0.068	ng	0.00
5) Phenol-d6	6.766	99	81	0.034	ng	0.00
8) Nitrobenzene-d5	8.749	82	318	0.139	ng	0.02
11) 2-Methylnaphthalene-d10	11.960	152	486	0.157	ng	0.00
14) 2,4,6-Tribromophenol	15.730	330	97	0.178	ng	0.00
15) 2-Fluorobiphenyl	12.848	172	829	0.150	ng	0.00
27) Fluoranthene-d10	19.012	212	1190	0.196	ng	0.00
31) Terphenyl-d14	19.621	244	886	0.220	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.104	88	4235	3.323	ng	97
34) Bis(2-ethylhexyl)phtha...	21.099	149	260	0.058	ng	# 96

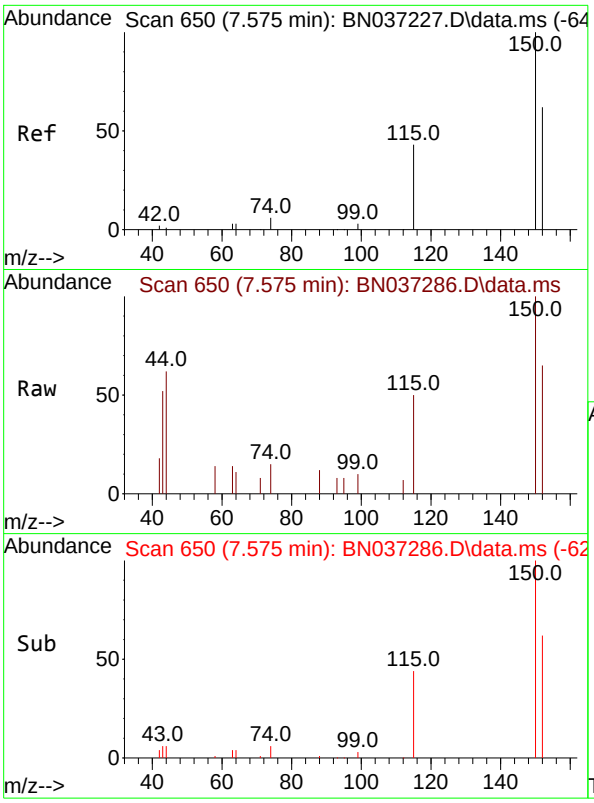
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061625\
Data File : BN037286.D
Acq On : 16 Jun 2025 11:39
Operator : RC/JU
Sample : Q2299-17DL 2X
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE134D3-20250610DL

Quant Time: Jun 16 12:25:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration



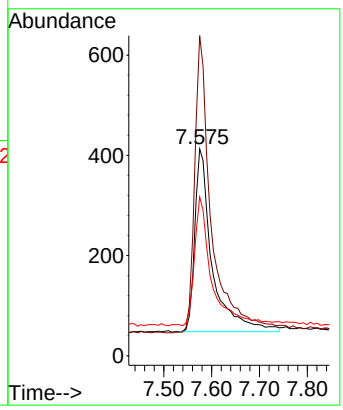


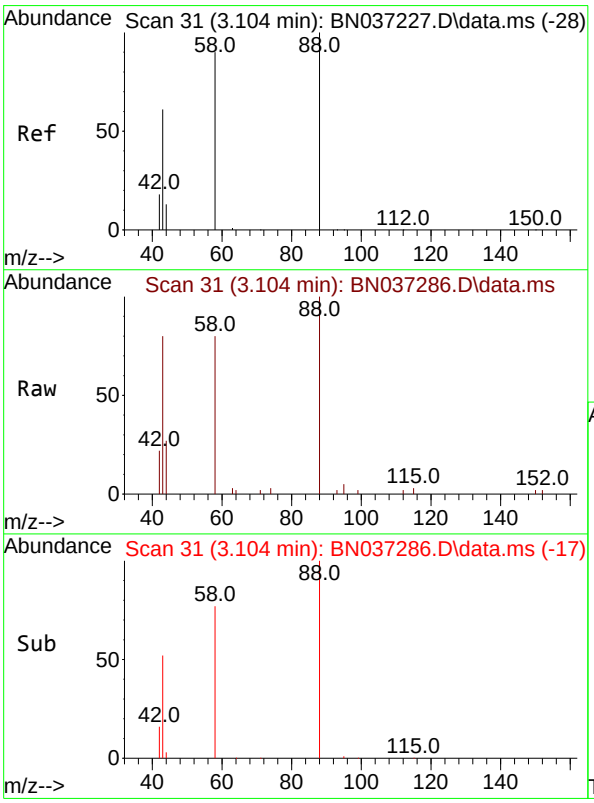
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN037286.D
Acq: 16 Jun 2025 11:39

Instrument :
BNA_N
ClientSampleId :
RE134D3-20250610DL

Tgt Ion:152 Resp: 929

Ion	Ratio	Lower	Upper
152	100		
150	154.7	125.2	187.8
115	76.8	58.4	87.6

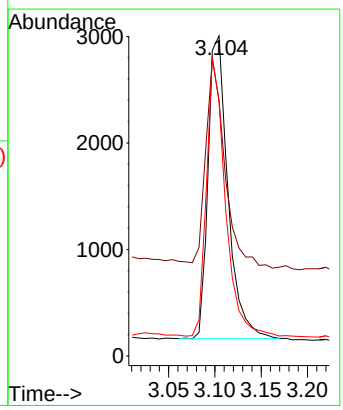


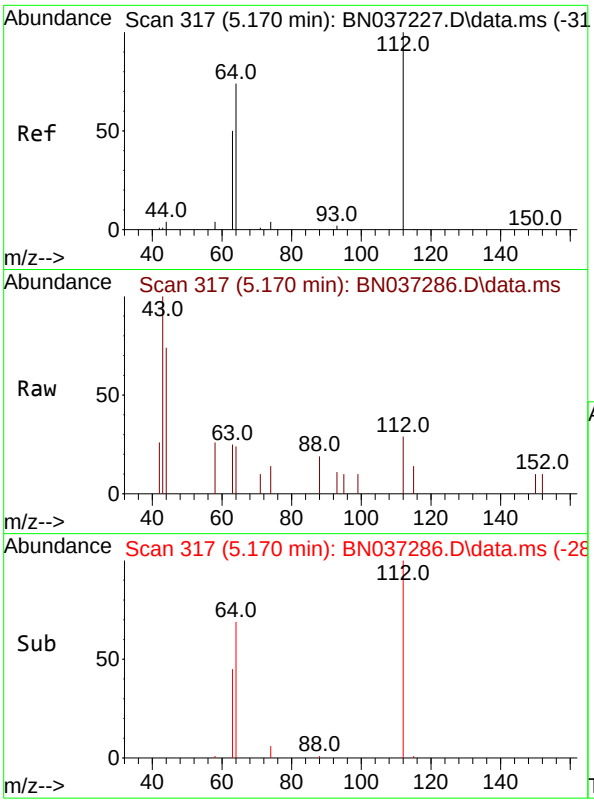


#2
1,4-Dioxane
Concen: 3.323 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037286.D
Acq: 16 Jun 2025 11:39

Tgt Ion: 88 Resp: 4235

Ion	Ratio	Lower	Upper
88	100		
43	65.9	52.6	79.0
58	87.1	73.5	110.3



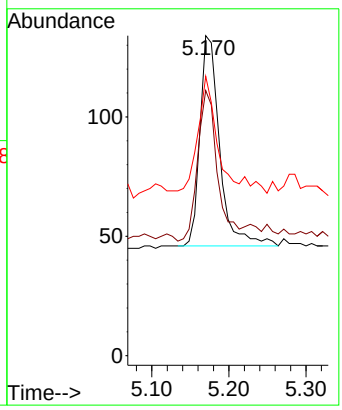


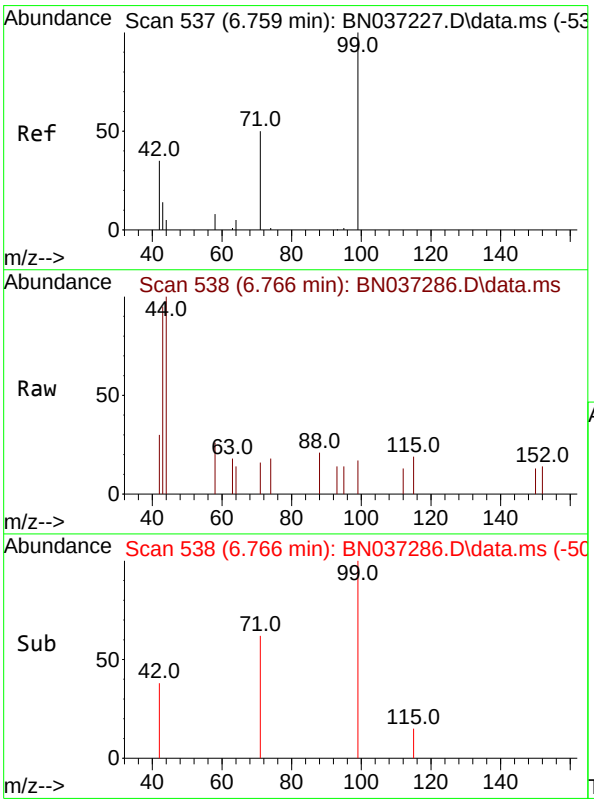
#4
2-Fluorophenol
Concen: 0.068 ng
RT: 5.170 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037286.D
Acq: 16 Jun 2025 11:39

Instrument :
BNA_N
ClientSampleId :
RE134D3-20250610DL

Tgt Ion:112 Resp: 156

Ion	Ratio	Lower	Upper
112	100		
64	71.8	57.2	85.8
63	50.0	39.8	59.6

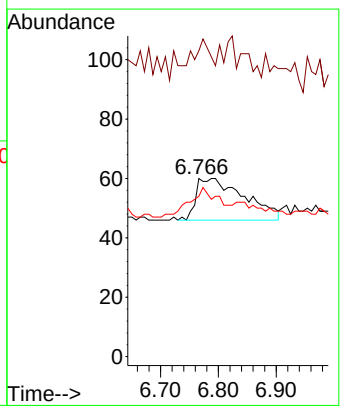


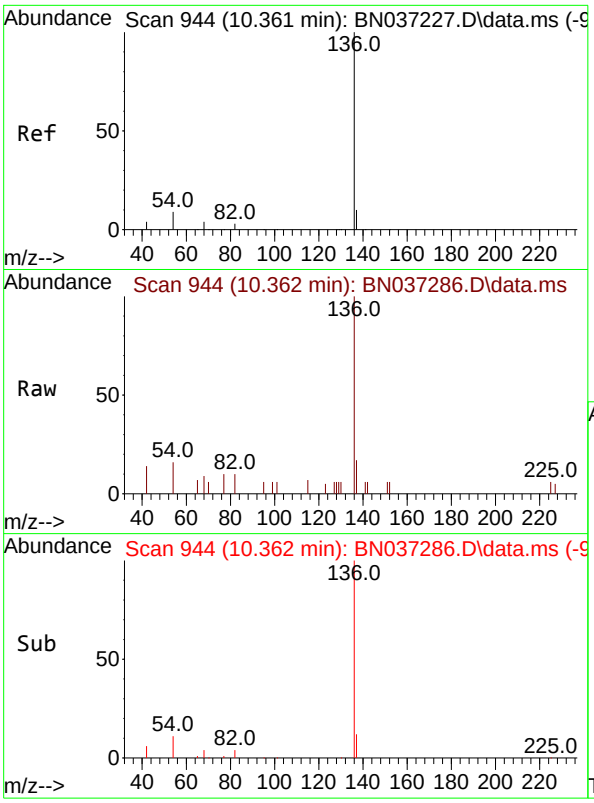


#5
Phenol-d6
Concen: 0.034 ng
RT: 6.766 min Scan# 538
Delta R.T. 0.007 min
Lab File: BN037286.D
Acq: 16 Jun 2025 11:39

Tgt Ion: 99 Resp: 81

Ion	Ratio	Lower	Upper
99	100		
42	27.2	36.2	54.4#
71	42.0	42.4	63.6#



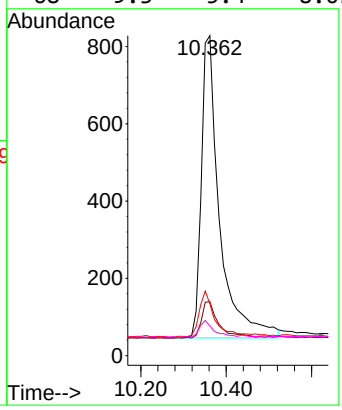


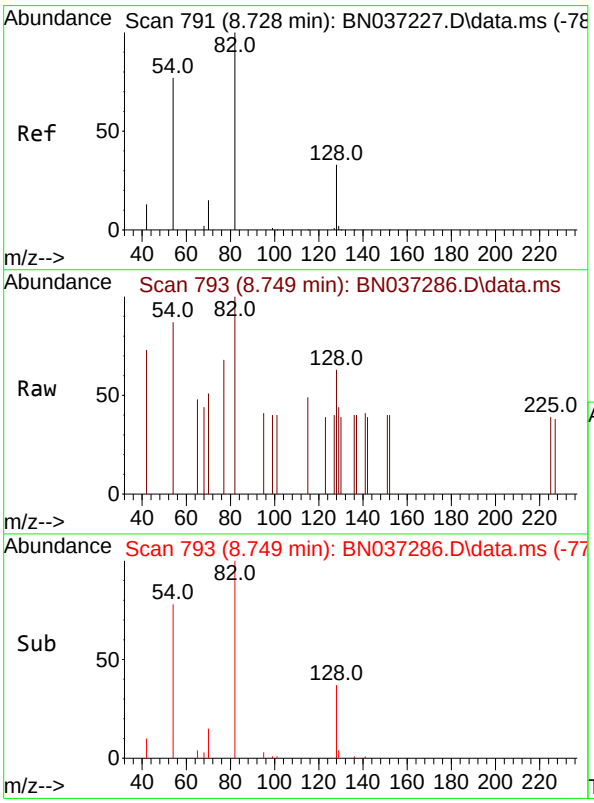
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.362 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037286.D
Acq: 16 Jun 2025 11:39

Instrument :
BNA_N
ClientSampleId :
RE134D3-20250610DL

Tgt Ion:136 Resp: 2314

Ion	Ratio	Lower	Upper
136	100		
137	16.9	10.6	15.8#
54	16.2	9.2	13.8#
68	9.3	5.4	8.0#

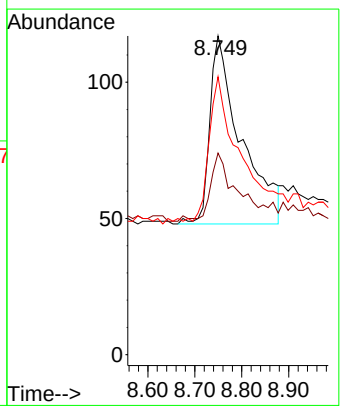


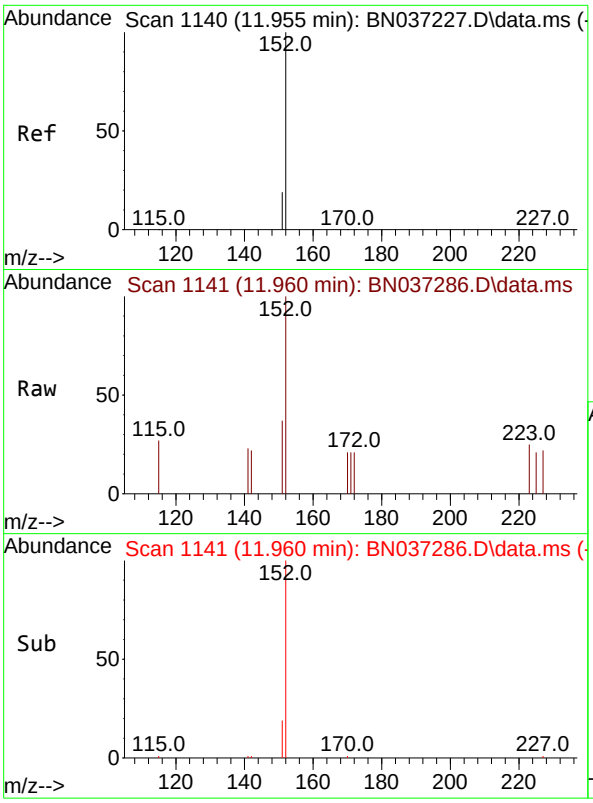


#8
Nitrobenzene-d5
Concen: 0.139 ng
RT: 8.749 min Scan# 793
Delta R.T. 0.022 min
Lab File: BN037286.D
Acq: 16 Jun 2025 11:39

Tgt Ion: 82 Resp: 318

Ion	Ratio	Lower	Upper
82	100		
128	63.2	31.2	46.8#
54	87.2	63.3	94.9



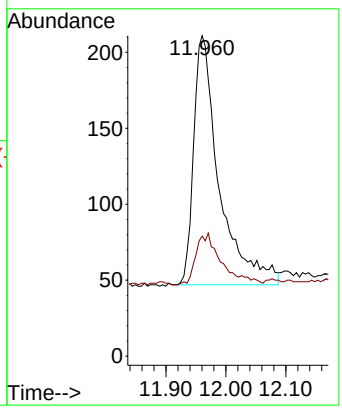


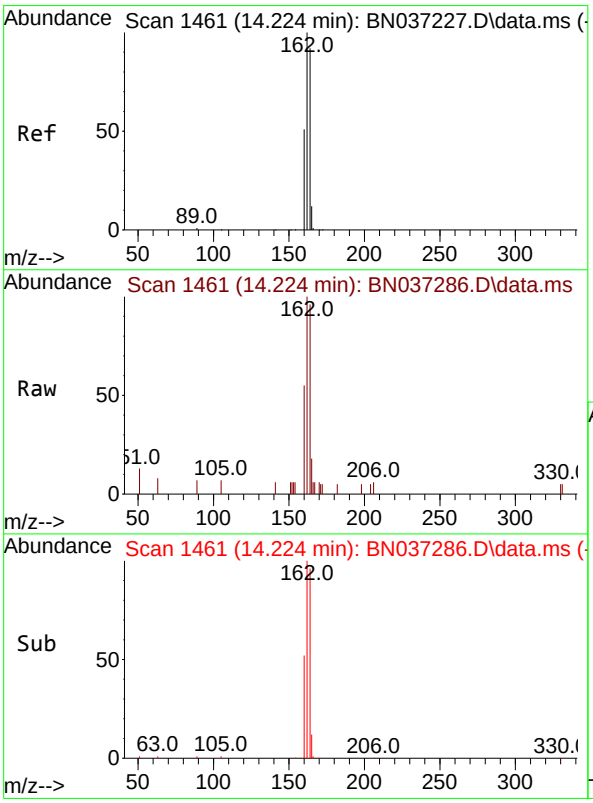
#11
2-Methylnaphthalene-d10
Concen: 0.157 ng
RT: 11.960 min Scan# 11
Delta R.T. 0.005 min
Lab File: BN037286.D
Acq: 16 Jun 2025 11:39

Instrument :
BNA_N
ClientSampleId :
RE134D3-20250610DL

Tgt Ion:152 Resp: 486

Ion	Ratio	Lower	Upper
152	100		
151	20.6	17.9	26.9

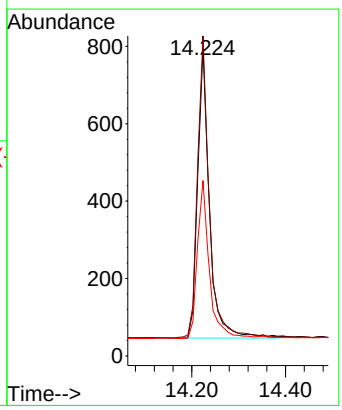


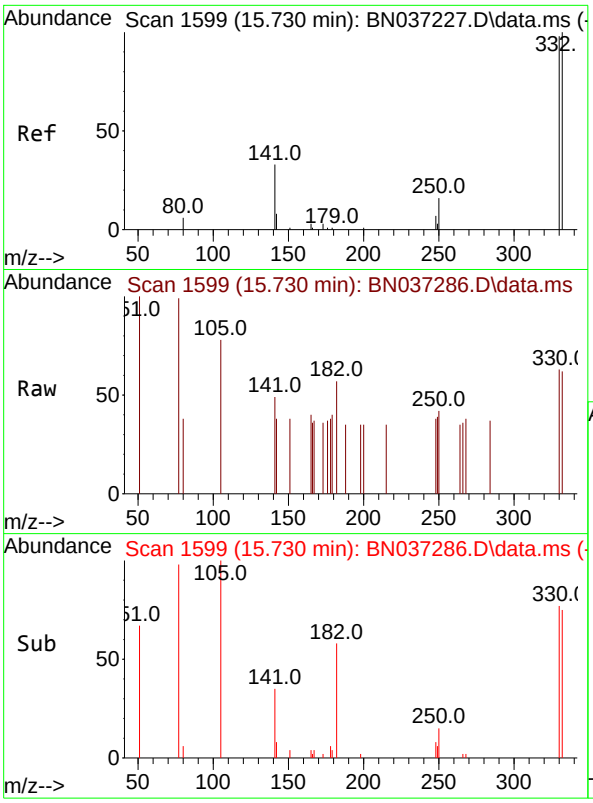


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BN037286.D
Acq: 16 Jun 2025 11:39

Tgt Ion:164 Resp: 1314

Ion	Ratio	Lower	Upper
164	100		
162	104.0	86.7	130.1
160	57.0	45.8	68.6



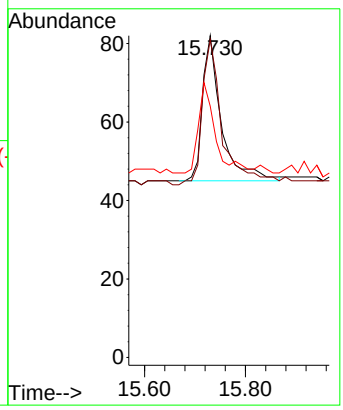


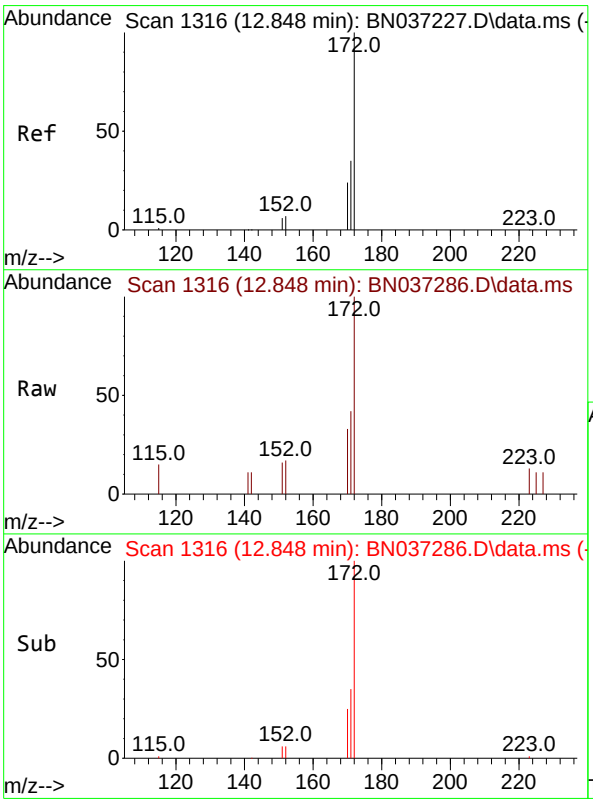
#14
2,4,6-Tribromophenol
Concen: 0.178 ng
RT: 15.730 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037286.D
Acq: 16 Jun 2025 11:39

Instrument :
BNA_N
ClientSampleId :
RE134D3-20250610DL

Tgt Ion:330 Resp: 97

Ion	Ratio	Lower	Upper
330	100		
332	106.2	74.9	112.3
141	55.7	45.1	67.7

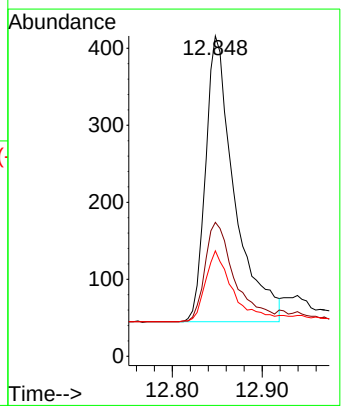


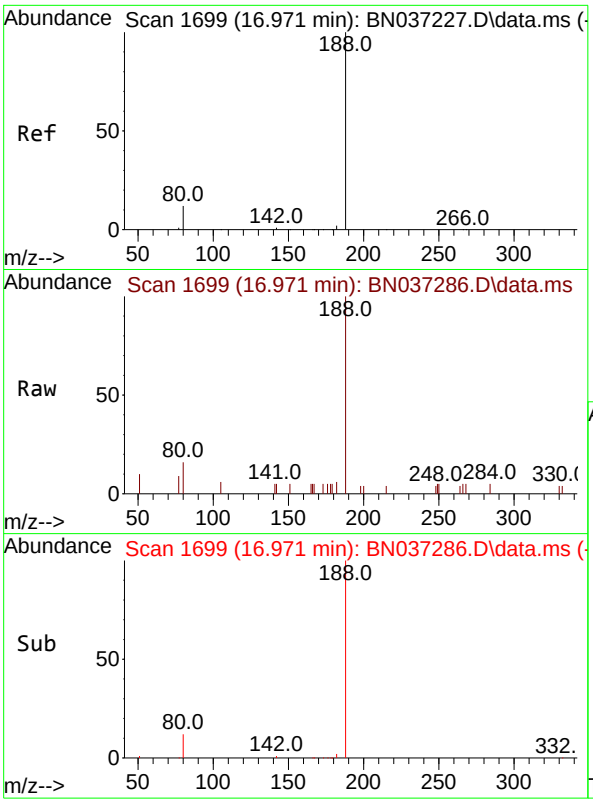


#15
2-Fluorobiphenyl
Concen: 0.150 ng
RT: 12.848 min Scan# 1316
Delta R.T. 0.000 min
Lab File: BN037286.D
Acq: 16 Jun 2025 11:39

Tgt Ion:172 Resp: 829

Ion	Ratio	Lower	Upper
172	100		
171	41.8	29.8	44.8
170	32.9	21.1	31.7#



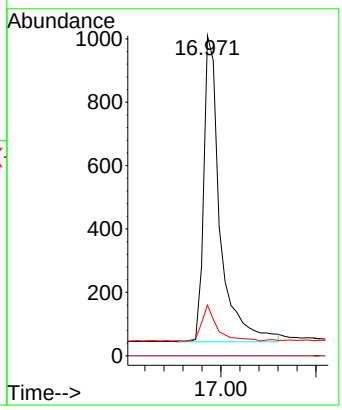


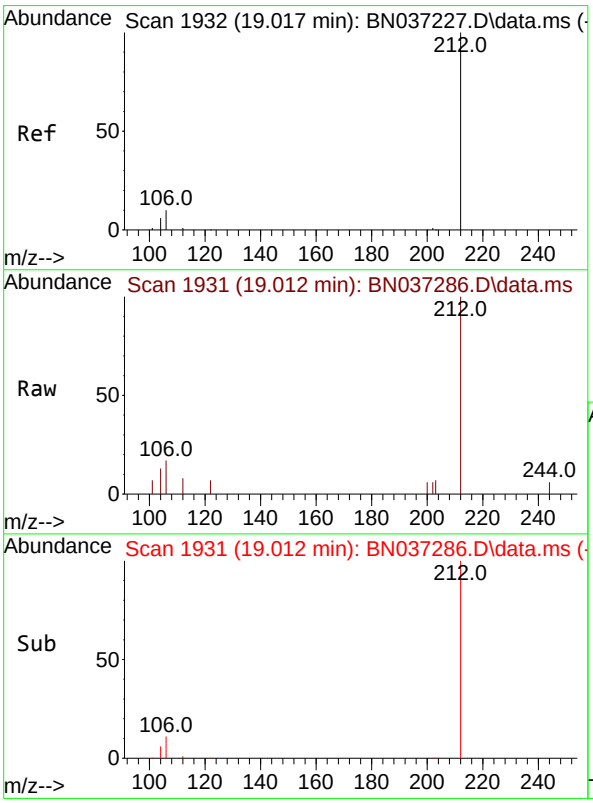
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037286.D
Acq: 16 Jun 2025 11:39

Instrument :
BNA_N
ClientSampleId :
RE134D3-20250610DL

Tgt Ion:188 Resp: 2315

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	15.8	12.2	18.4

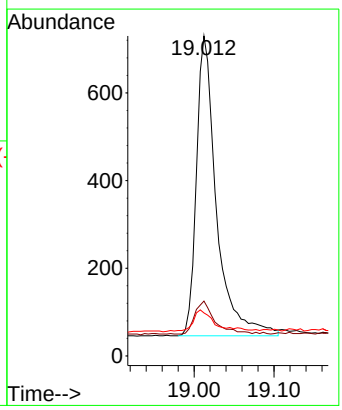


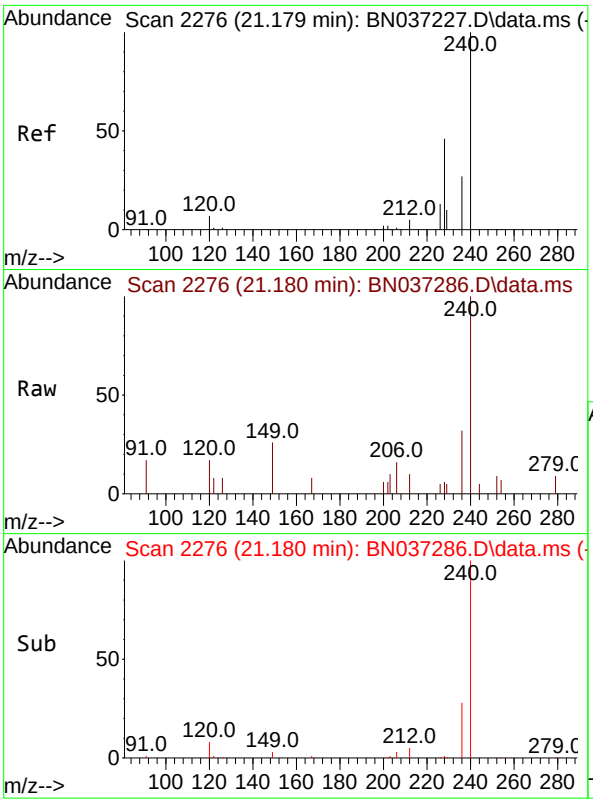


#27
Fluoranthene-d10
Concen: 0.196 ng
RT: 19.012 min Scan# 1931
Delta R.T. -0.004 min
Lab File: BN037286.D
Acq: 16 Jun 2025 11:39

Tgt Ion:212 Resp: 1190

Ion	Ratio	Lower	Upper
212	100		
106	11.0	9.3	13.9
104	8.1	5.7	8.5



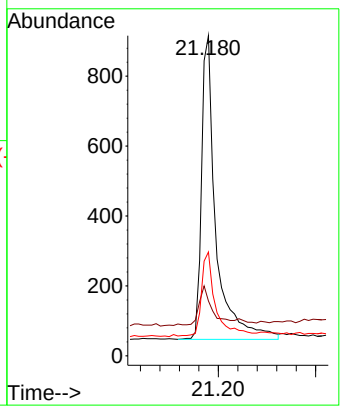


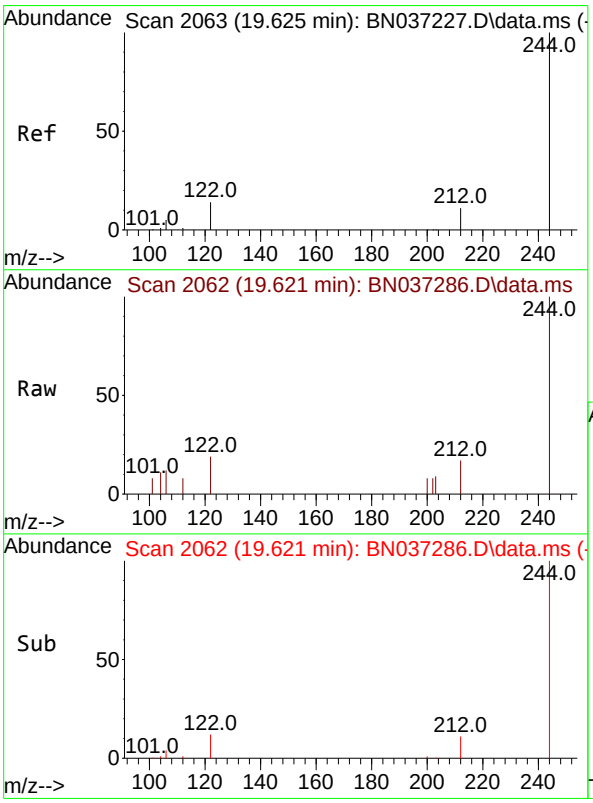
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.180 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037286.D
Acq: 16 Jun 2025 11:39

Instrument :
BNA_N
ClientSampleId :
RE134D3-20250610DL

Tgt Ion:240 Resp: 1782

Ion	Ratio	Lower	Upper
240	100		
120	17.1	11.3	16.9#
236	32.4	24.4	36.6

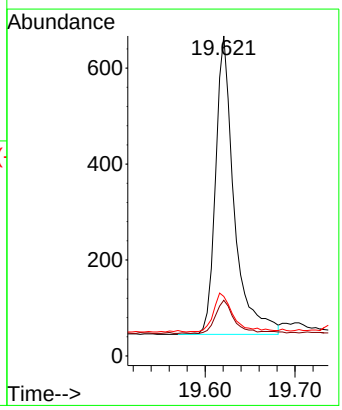


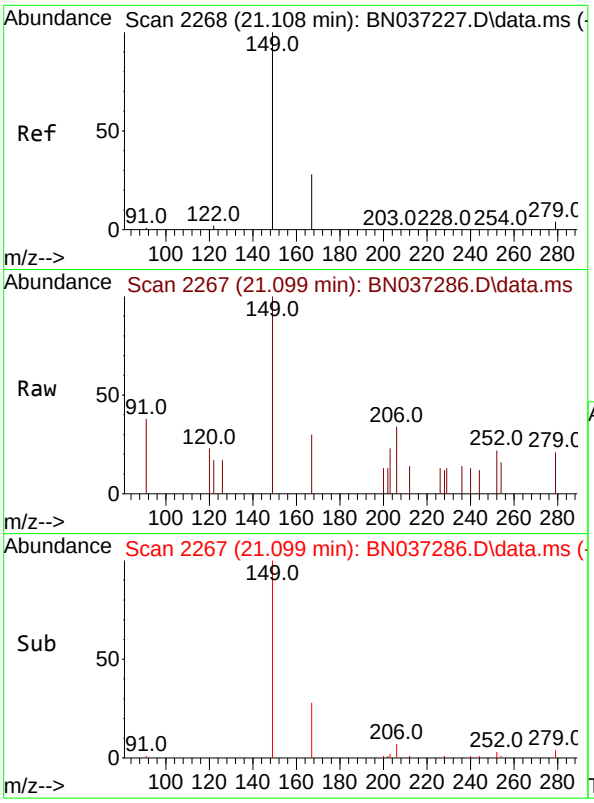


#31
Terphenyl-d14
Concen: 0.220 ng
RT: 19.621 min Scan# 2062
Delta R.T. -0.004 min
Lab File: BN037286.D
Acq: 16 Jun 2025 11:39

Tgt Ion:244 Resp: 886

Ion	Ratio	Lower	Upper
244	100		
212	17.4	12.2	18.2
122	18.6	14.3	21.5



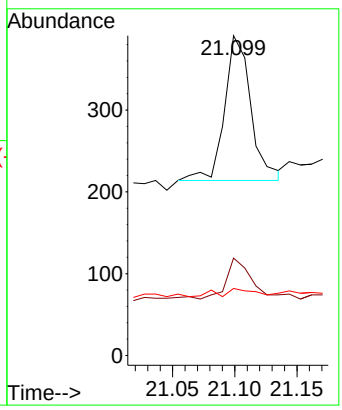


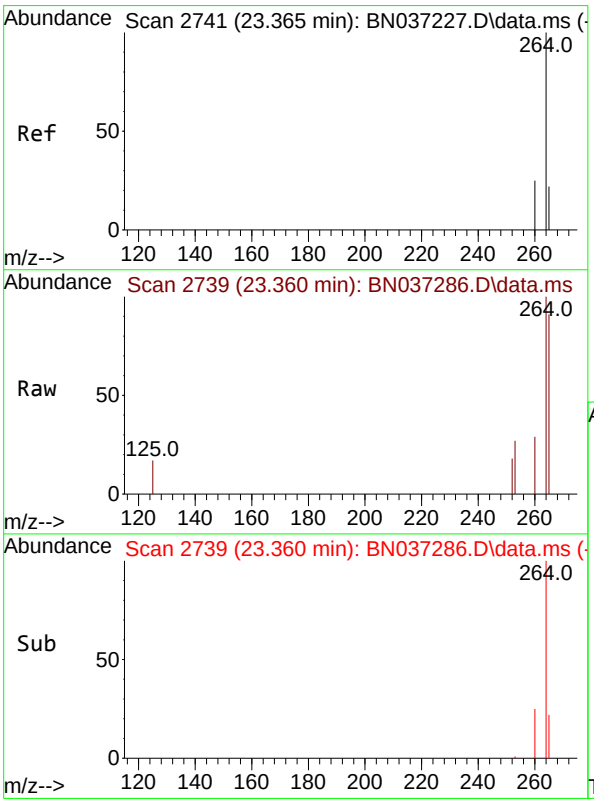
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.058 ng
RT: 21.099 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037286.D
Acq: 16 Jun 2025 11:39

Instrument :
BNA_N
ClientSampleId :
RE134D3-20250610DL

Tgt Ion:149 Resp: 260

Ion	Ratio	Lower	Upper
149	100		
167	28.5	21.3	31.9
279	6.9	3.3	4.9#

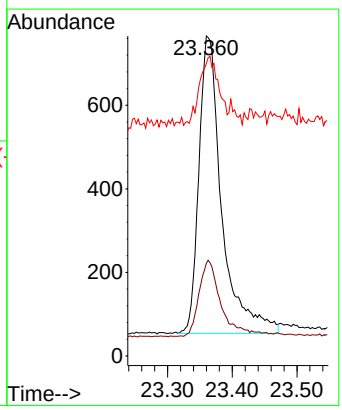




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.360 min Scan# 2739
Delta R.T. -0.006 min
Lab File: BN037286.D
Acq: 16 Jun 2025 11:39

Tgt Ion:264 Resp: 1749

Ion	Ratio	Lower	Upper
264	100		
260	29.0	22.8	34.2
265	91.4	66.4	99.6



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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/11/25
Client Sample ID:	TT190D1-20250611	SDG No.:	Q2299
Lab Sample ID:	Q2299-18	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037265.D	1	06/13/25 08:03	06/14/25 17:00	PB168458

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	1.40		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.31		30 - 150		77%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.41		30 - 150		102%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.28		55 - 111		71%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.31		53 - 106		79%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.42		58 - 132		104%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1130	7.575				
1146-65-2	Naphthalene-d8	2840	10.351				
15067-26-2	Acenaphthene-d10	1550	14.224				
1517-22-2	Phenanthrene-d10	2840	16.971				
1719-03-5	Chrysene-d12	2560	21.171				
1520-96-3	Perylene-d12	2400	23.357				

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_N\Data\BN061325\
Data File : BN037265.D
Acq On : 14 Jun 2025 17:00
Operator : RC/JU
Sample : Q2299-18
Misc :
ALS Vial : 44 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT190D1-20250611

Quant Time: Jun 16 02:43:52 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration

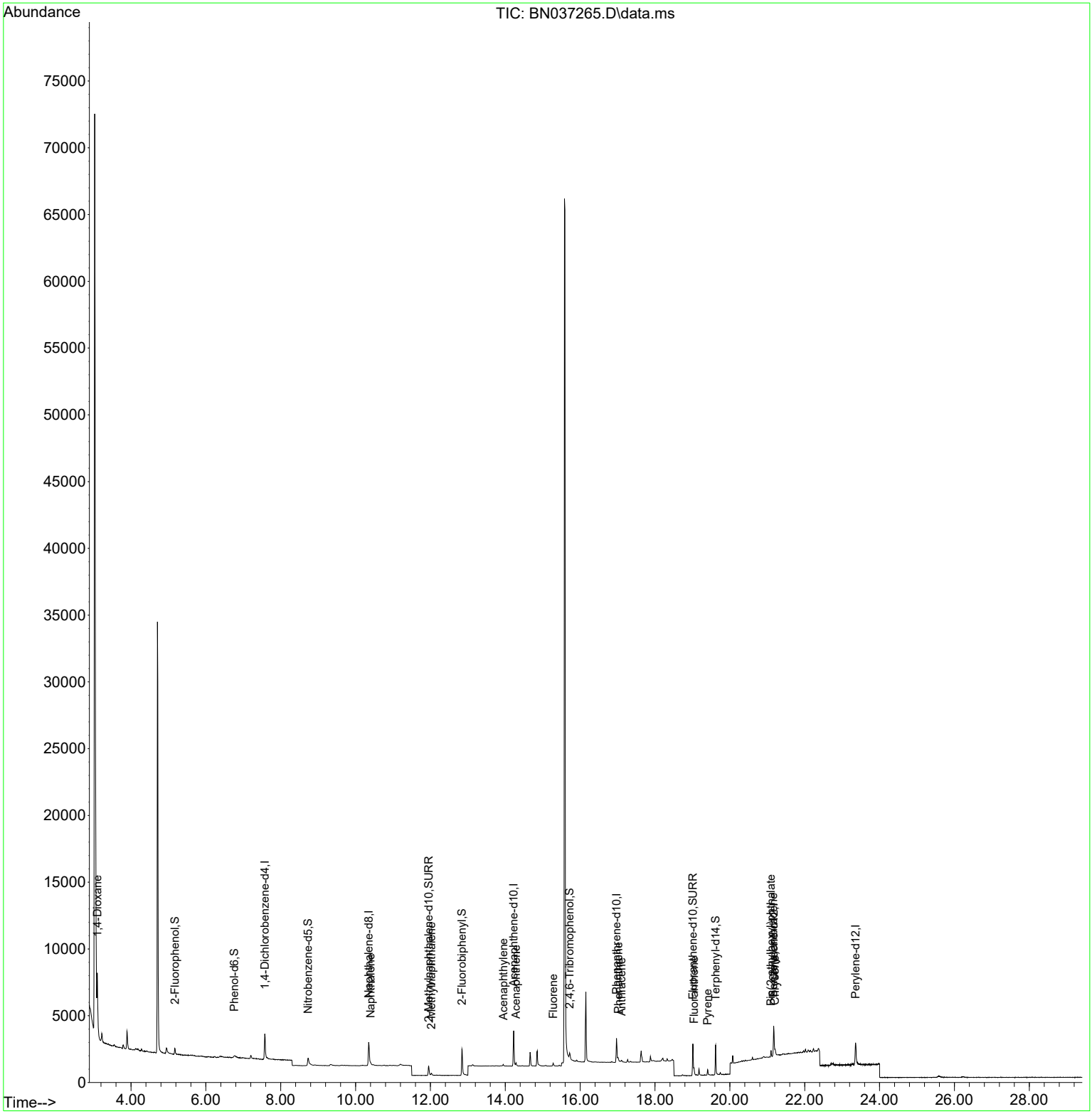
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	1132	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	2844	0.400	ng	#-0.01
13) Acenaphthene-d10	14.224	164	1545	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	2840	0.400	ng	0.00
29) Chrysene-d12	21.171	240	2558	0.400	ng	# 0.00
35) Perylene-d12	23.357	264	2398	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	341	0.123	ng	0.00
5) Phenol-d6	6.759	99	172	0.059	ng	0.00
8) Nitrobenzene-d5	8.728	82	798	0.284	ng	0.00
11) 2-Methylnaphthalene-d10	11.955	152	1174	0.308	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	222	0.346	ng	-0.01
15) 2-Fluorobiphenyl	12.843	172	2041	0.314	ng	0.00
27) Fluoranthene-d10	19.012	212	3030	0.408	ng	0.00
31) Terphenyl-d14	19.621	244	2397	0.415	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.104	88	2246	1.446	ng	# 89
9) Naphthalene	10.404	128	215	0.026	ng	# 29
12) 2-Methylnaphthalene	12.026	142	123	0.025	ng	# 84
16) Acenaphthylene	13.946	152	155	0.020	ng	94
17) Acenaphthene	14.288	154	110	0.023	ng	100
18) Fluorene	15.282	166	144	0.023	ng	94
25) Phenanthrene	17.021	178	353	0.039	ng	95
26) Anthracene	17.108	178	178	0.022	ng	99
28) Fluoranthene	19.040	202	393	0.037	ng	# 87
30) Pyrene	19.407	202	420	0.035	ng	98
32) Benzo(a)anthracene	21.162	228	261	0.030	ng	# 64
33) Chrysene	21.207	228	281	0.026	ng	# 71
34) Bis(2-ethylhexyl)phtha...	21.099	149	429	0.067	ng	# 97

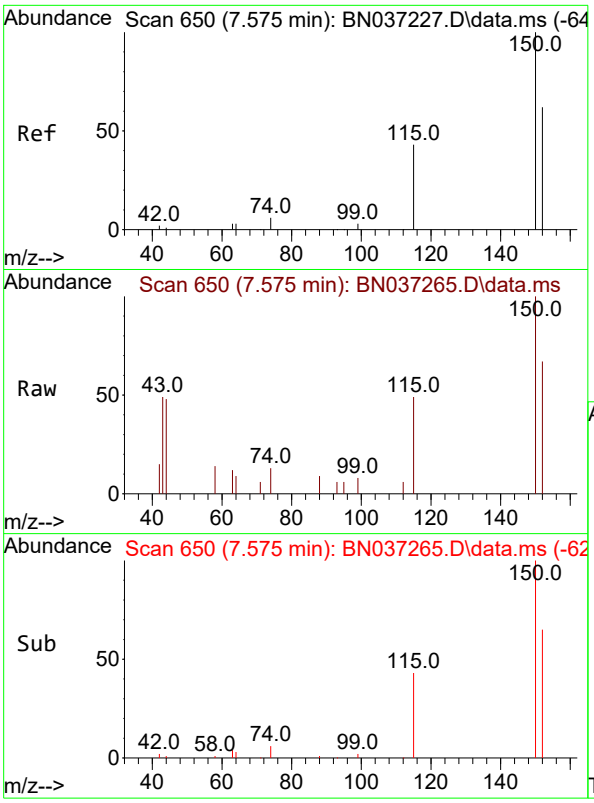
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037265.D
Acq On : 14 Jun 2025 17:00
Operator : RC/JU
Sample : Q2299-18
Misc :
ALS Vial : 44 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT190D1-20250611

Quant Time: Jun 16 02:43:52 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration



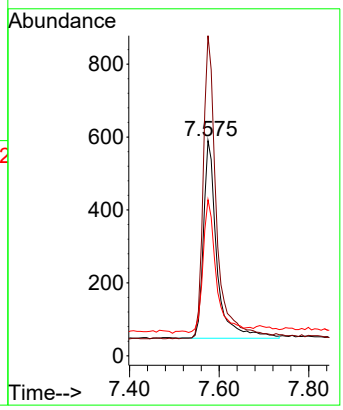


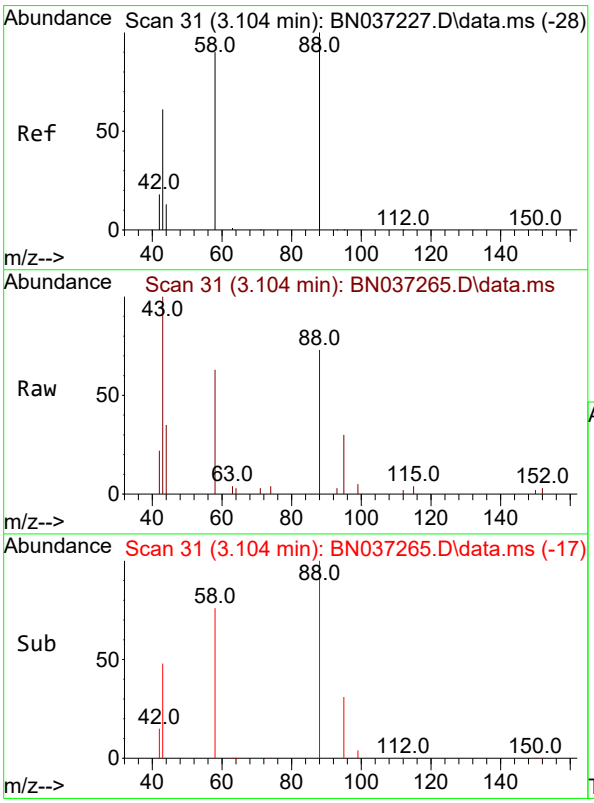
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN037265.D
Acq: 14 Jun 2025 17:00

Instrument :
BNA_N
ClientSampleId :
TT190D1-20250611

Tgt Ion:152 Resp: 1132

Ion	Ratio	Lower	Upper
152	100		
150	148.8	125.2	187.8
115	72.5	58.4	87.6

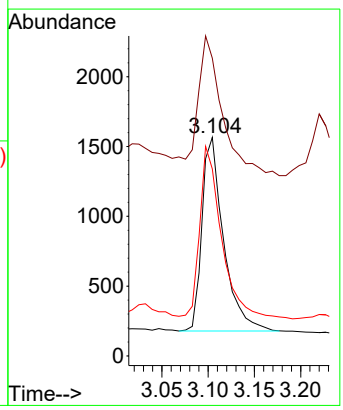


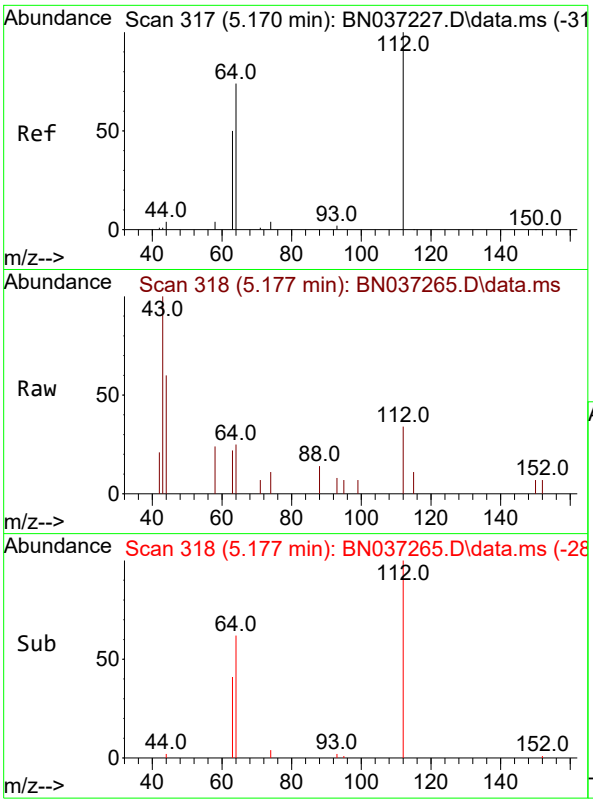


#2
1,4-Dioxane
Concen: 1.446 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037265.D
Acq: 14 Jun 2025 17:00

Tgt Ion: 88 Resp: 2246

Ion	Ratio	Lower	Upper
88	100		
43	80.4	52.6	79.0#
58	86.9	73.5	110.3



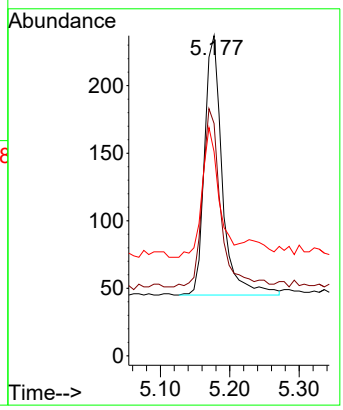


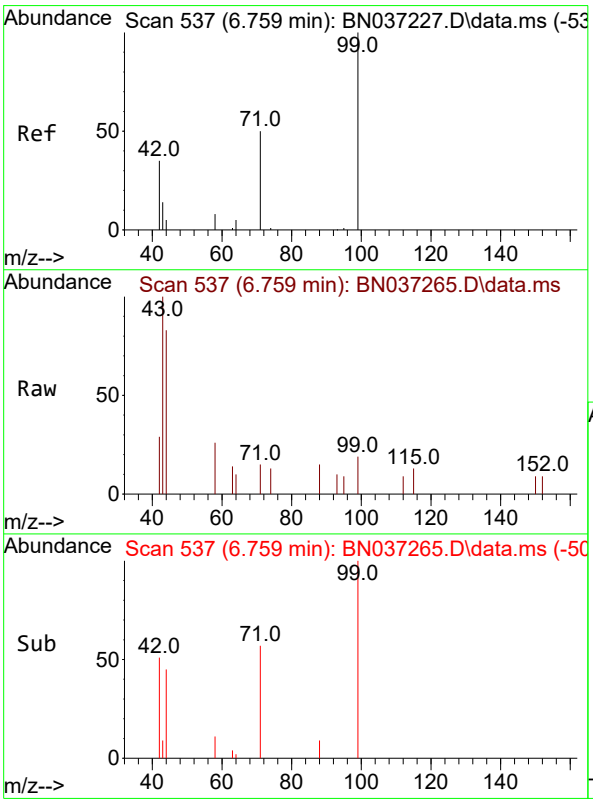
#4
2-Fluorophenol
Concen: 0.123 ng
RT: 5.177 min Scan# 3
Delta R.T. 0.007 min
Lab File: BN037265.D
Acq: 14 Jun 2025 17:00

Instrument :
BNA_N
ClientSampleId :
TT190D1-20250611

Tgt Ion:112 Resp: 341

Ion	Ratio	Lower	Upper
112	100		
64	72.1	57.2	85.8
63	48.1	39.8	59.6

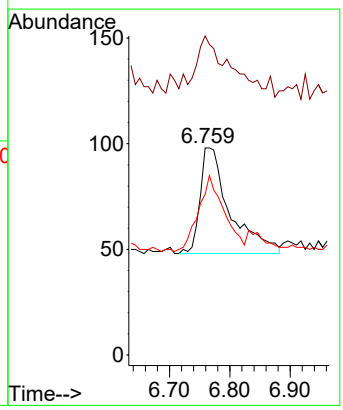


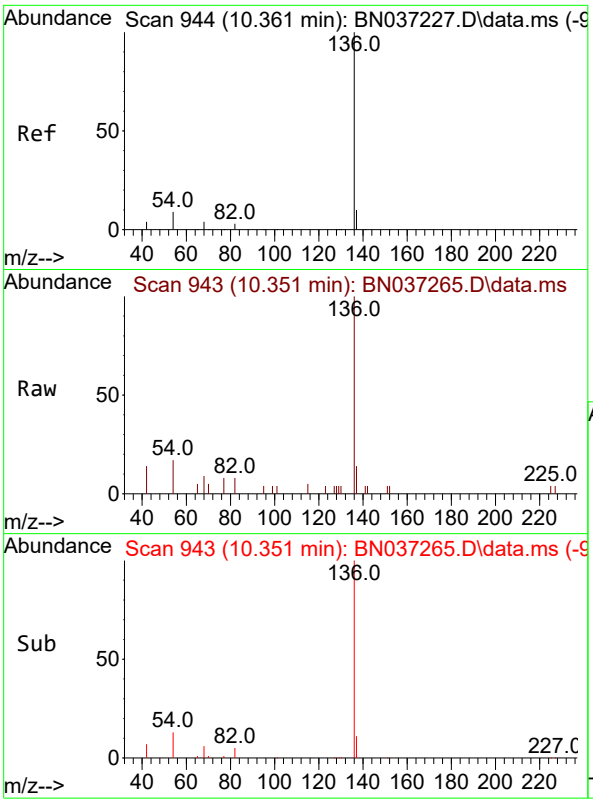


#5
Phenol-d6
Concen: 0.059 ng
RT: 6.759 min Scan# 537
Delta R.T. 0.000 min
Lab File: BN037265.D
Acq: 14 Jun 2025 17:00

Tgt Ion: 99 Resp: 172

Ion	Ratio	Lower	Upper
99	100		
42	65.7	36.2	54.4#
71	61.6	42.4	63.6



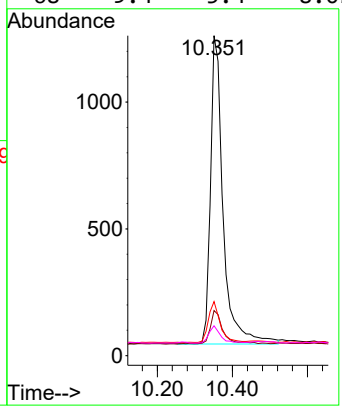


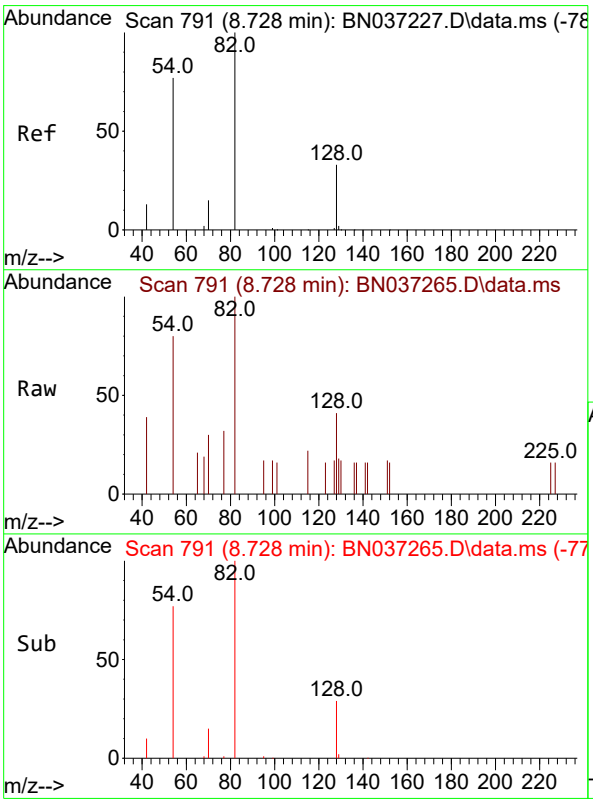
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 94
Delta R.T. -0.010 min
Lab File: BN037265.D
Acq: 14 Jun 2025 17:00

Instrument :
BNA_N
ClientSampleId :
TT190D1-20250611

Tgt Ion:136 Resp: 2844

Ion	Ratio	Lower	Upper
136	100		
137	14.1	10.6	15.8
54	16.9	9.2	13.8#
68	9.4	5.4	8.0#

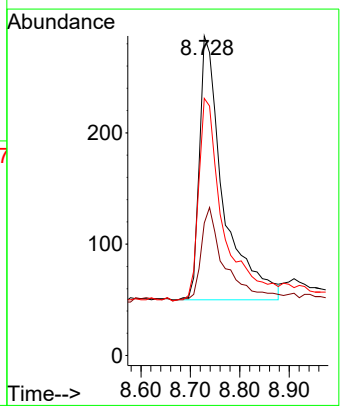


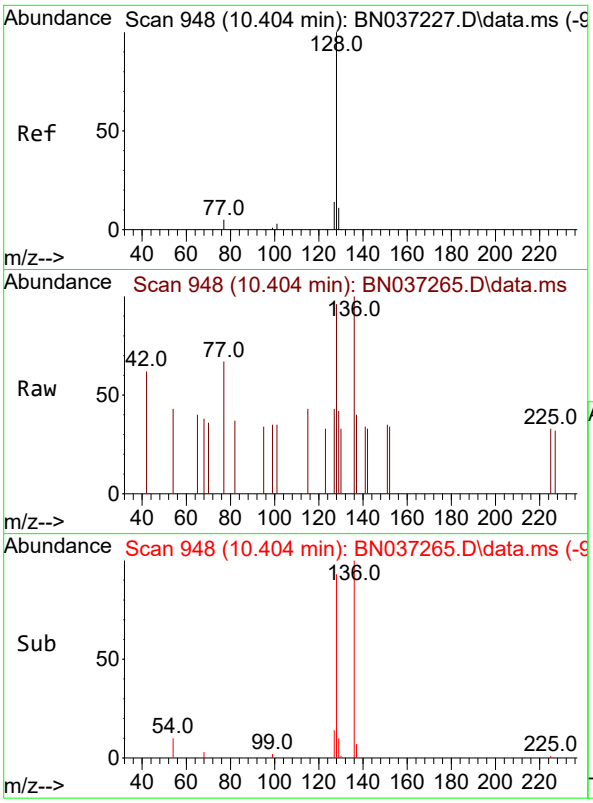


#8
Nitrobenzene-d5
Concen: 0.284 ng
RT: 8.728 min Scan# 791
Delta R.T. 0.000 min
Lab File: BN037265.D
Acq: 14 Jun 2025 17:00

Tgt Ion: 82 Resp: 798

Ion	Ratio	Lower	Upper
82	100		
128	41.5	31.2	46.8
54	80.5	63.3	94.9



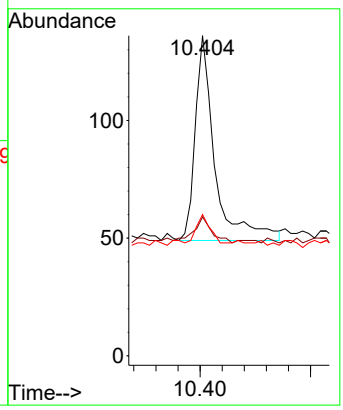


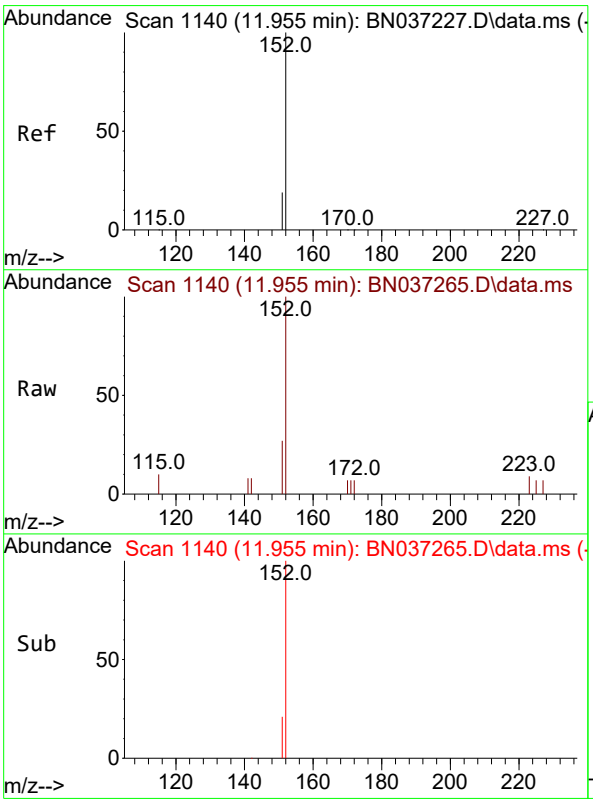
#9
Naphthalene
Concen: 0.026 ng
RT: 10.404 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037265.D
Acq: 14 Jun 2025 17:00

Instrument :
BNA_N
ClientSampleId :
TT190D1-20250611

Tgt Ion:128 Resp: 215

Ion	Ratio	Lower	Upper
128	100		
129	43.4	10.7	16.1#
127	44.1	12.6	19.0#

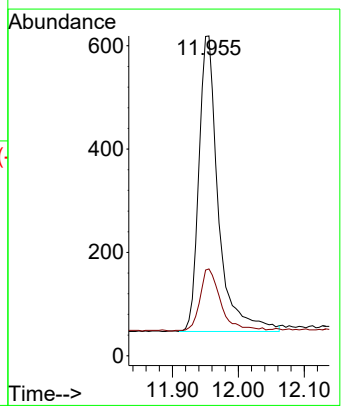


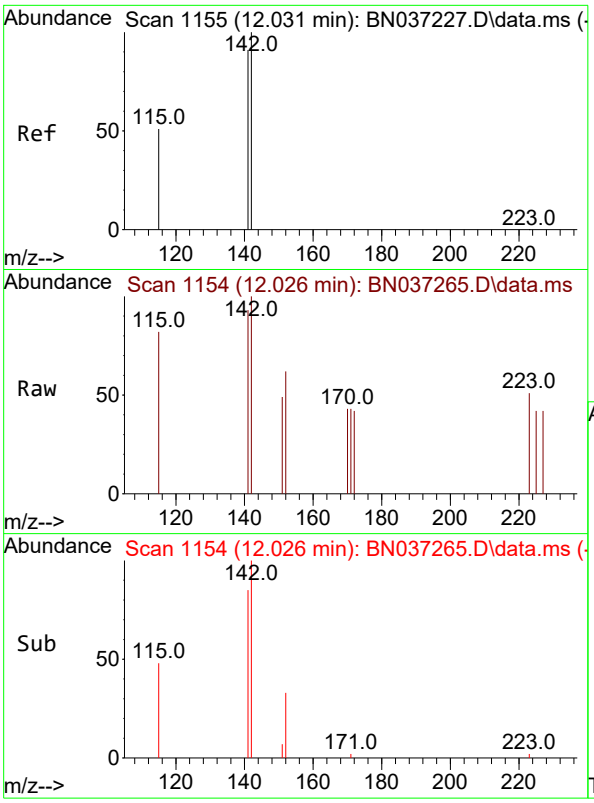


#11
2-Methylnaphthalene-d10
Concen: 0.308 ng
RT: 11.955 min Scan# 1140
Delta R.T. 0.000 min
Lab File: BN037265.D
Acq: 14 Jun 2025 17:00

Tgt Ion:152 Resp: 1174

Ion	Ratio	Lower	Upper
152	100		
151	22.6	17.9	26.9



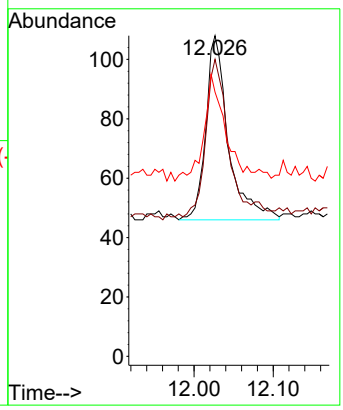


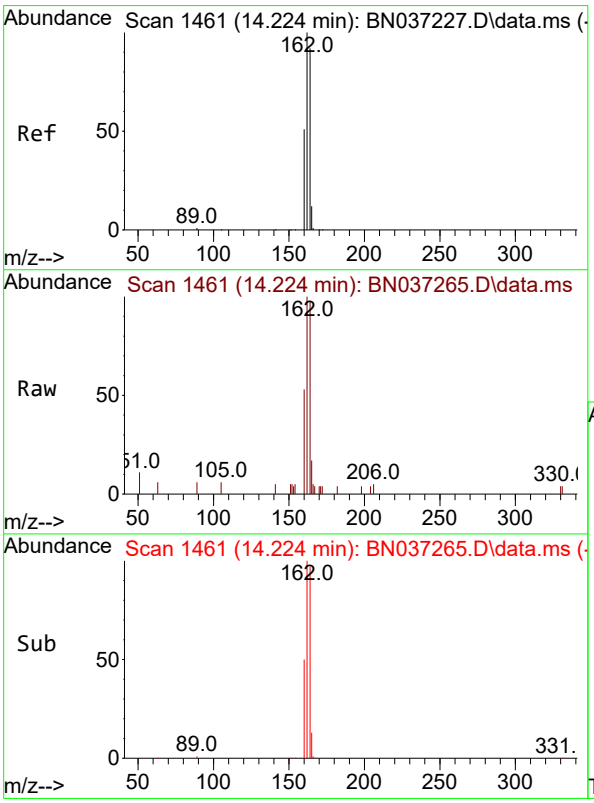
#12
2-Methylnaphthalene
Concen: 0.025 ng
RT: 12.026 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN037265.D
Acq: 14 Jun 2025 17:00

Instrument :
BNA_N
ClientSampleId :
TT190D1-20250611

Tgt Ion:142 Resp: 123

Ion	Ratio	Lower	Upper
142	100		
141	92.6	73.0	109.6
115	82.4	43.3	64.9#

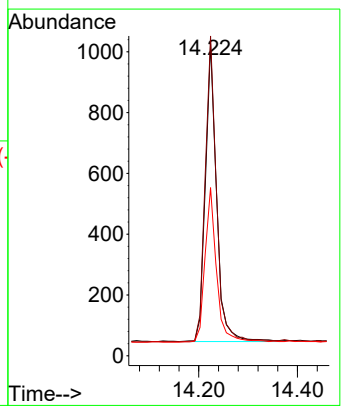


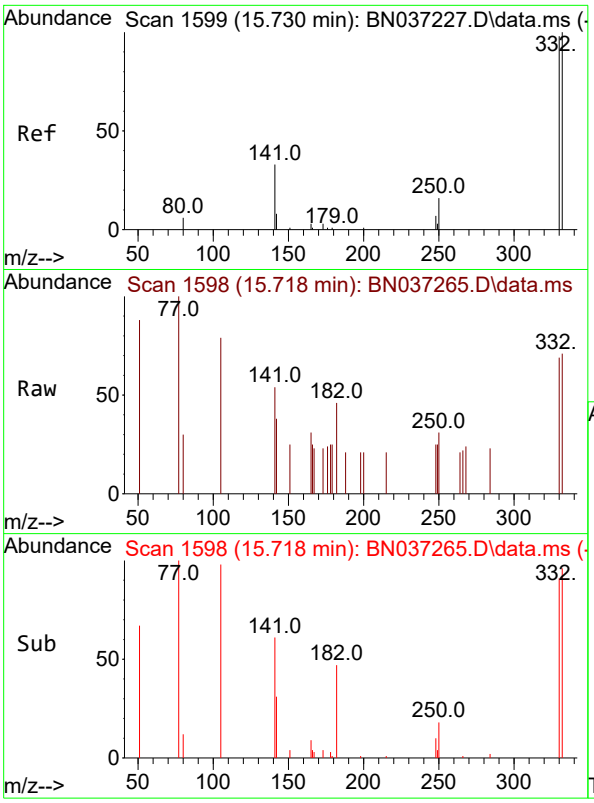


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BN037265.D
Acq: 14 Jun 2025 17:00

Tgt Ion:164 Resp: 1545

Ion	Ratio	Lower	Upper
164	100		
162	102.4	86.7	130.1
160	53.8	45.8	68.6



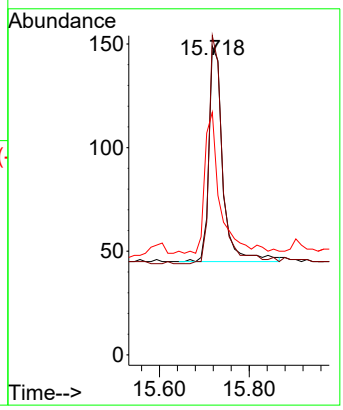


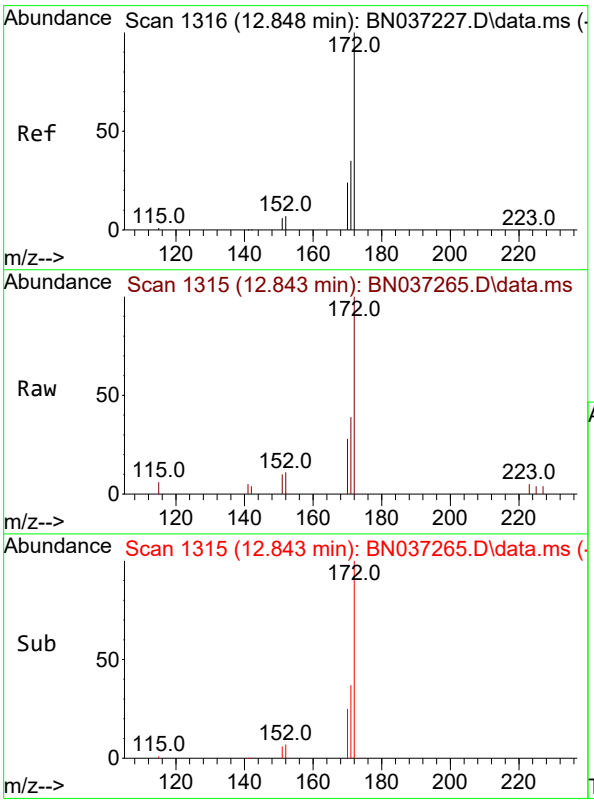
#14
2,4,6-Tribromophenol
Concen: 0.346 ng
RT: 15.718 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037265.D
Acq: 14 Jun 2025 17:00

Instrument :
BNA_N
ClientSampleId :
TT190D1-20250611

Tgt Ion:330 Resp: 222

Ion	Ratio	Lower	Upper
330	100		
332	101.8	74.9	112.3
141	69.4	45.1	67.7#

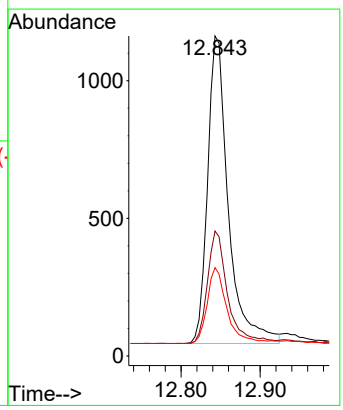


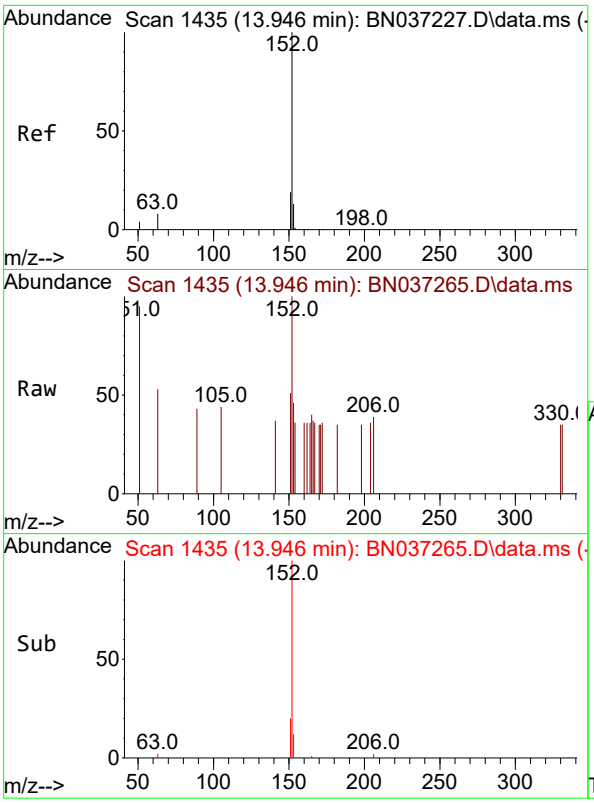


#15
2-Fluorobiphenyl
Concen: 0.314 ng
RT: 12.843 min Scan# 1315
Delta R.T. -0.005 min
Lab File: BN037265.D
Acq: 14 Jun 2025 17:00

Tgt Ion:172 Resp: 2041

Ion	Ratio	Lower	Upper
172	100		
171	39.0	29.8	44.8
170	27.6	21.1	31.7



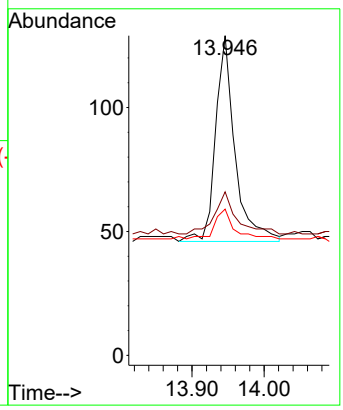


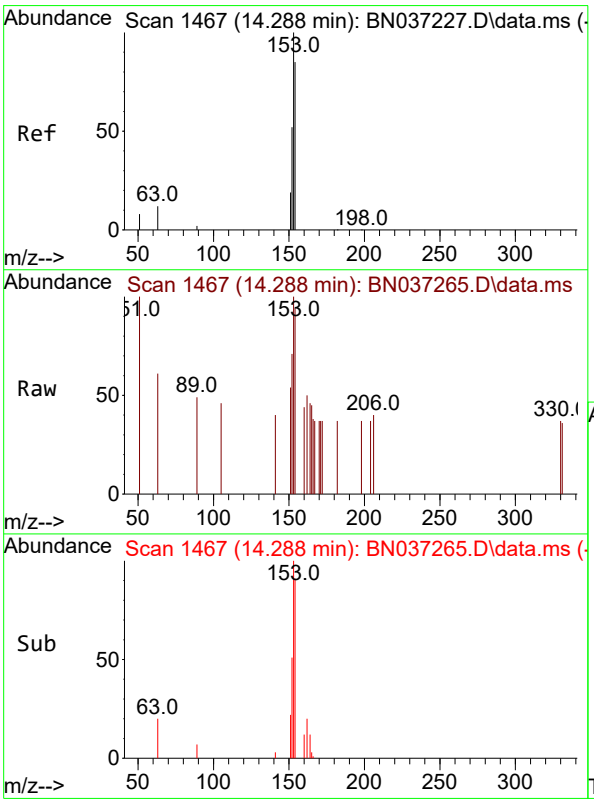
#16
Acenaphthylene
Concen: 0.020 ng
RT: 13.946 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037265.D
Acq: 14 Jun 2025 17:00

Instrument :
BNA_N
ClientSampleId :
TT190D1-20250611

Tgt Ion:152 Resp: 155

Ion	Ratio	Lower	Upper
152	100		
151	23.2	15.7	23.5
153	14.8	10.7	16.1

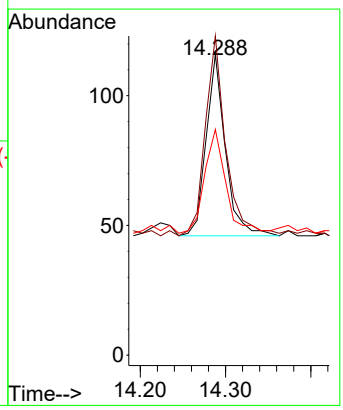


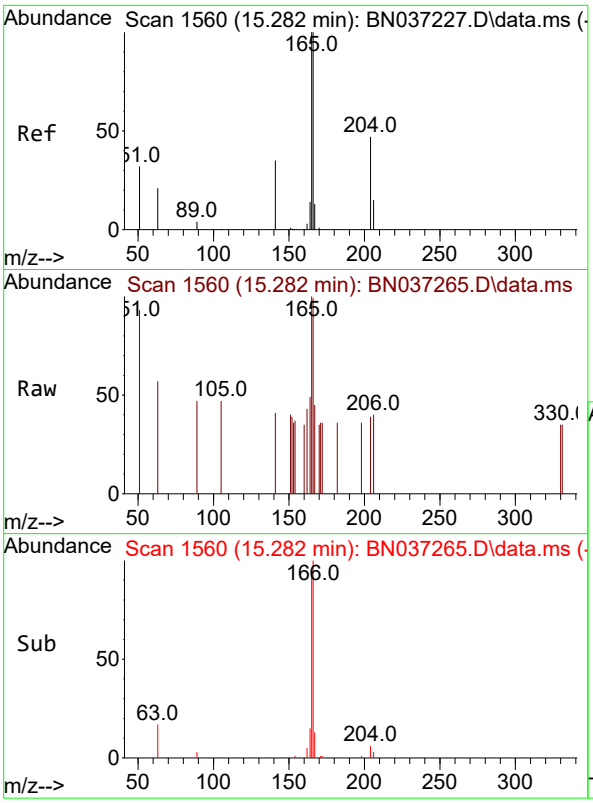


#17
Acenaphthene
Concen: 0.023 ng
RT: 14.288 min Scan# 1467
Delta R.T. 0.000 min
Lab File: BN037265.D
Acq: 14 Jun 2025 17:00

Tgt Ion:154 Resp: 110

Ion	Ratio	Lower	Upper
154	100		
153	118.2	94.6	141.8
152	62.7	49.6	74.4



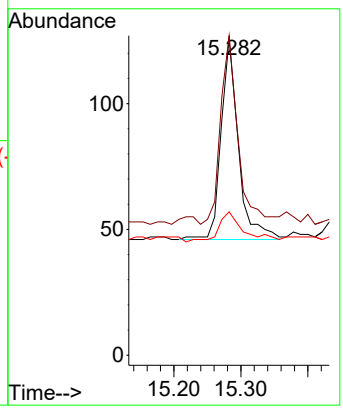


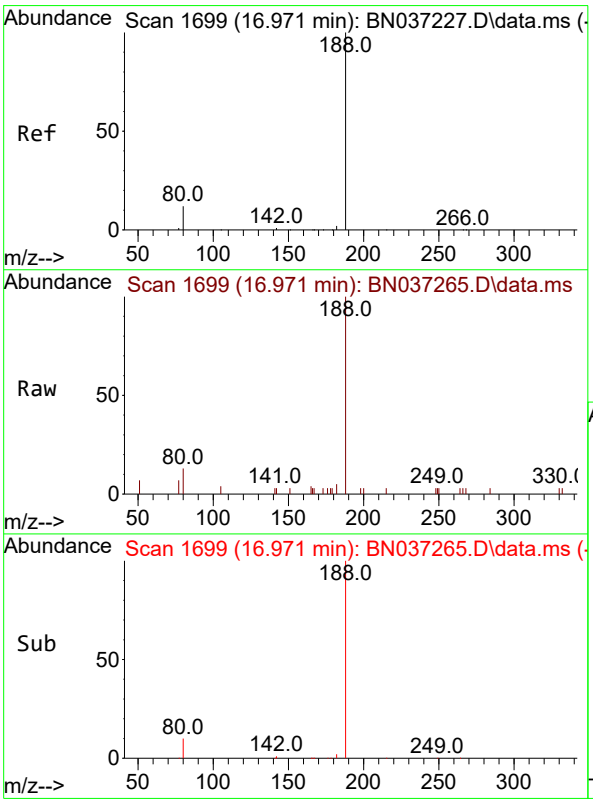
#18
Fluorene
Concen: 0.023 ng
RT: 15.282 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037265.D
Acq: 14 Jun 2025 17:00

Instrument :
BNA_N
ClientSampleId :
TT190D1-20250611

Tgt Ion:166 Resp: 144

Ion	Ratio	Lower	Upper
166	100		
165	93.8	79.8	119.6
167	16.0	10.8	16.2

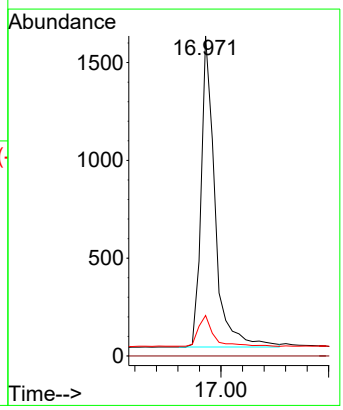


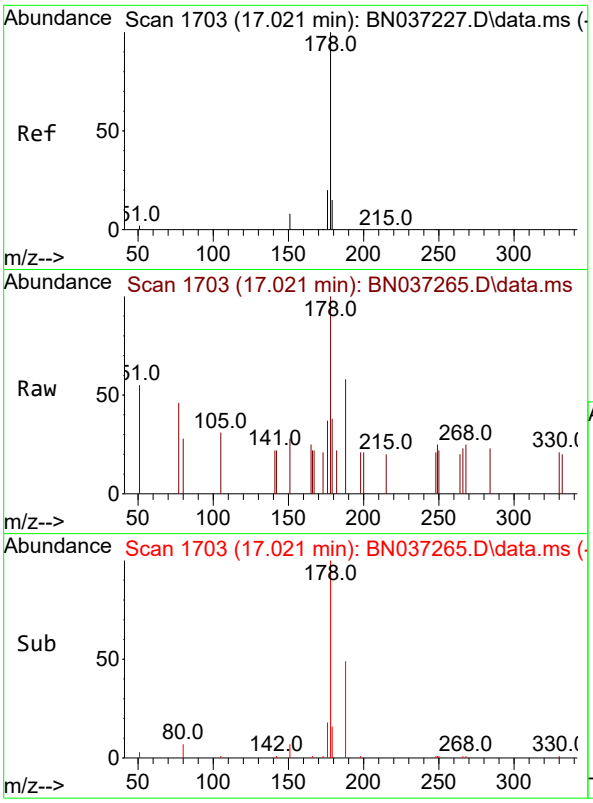


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1699
Delta R.T. 0.000 min
Lab File: BN037265.D
Acq: 14 Jun 2025 17:00

Tgt Ion:188 Resp: 2840

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.7	12.2	18.4



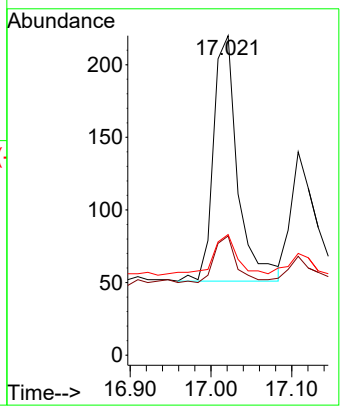


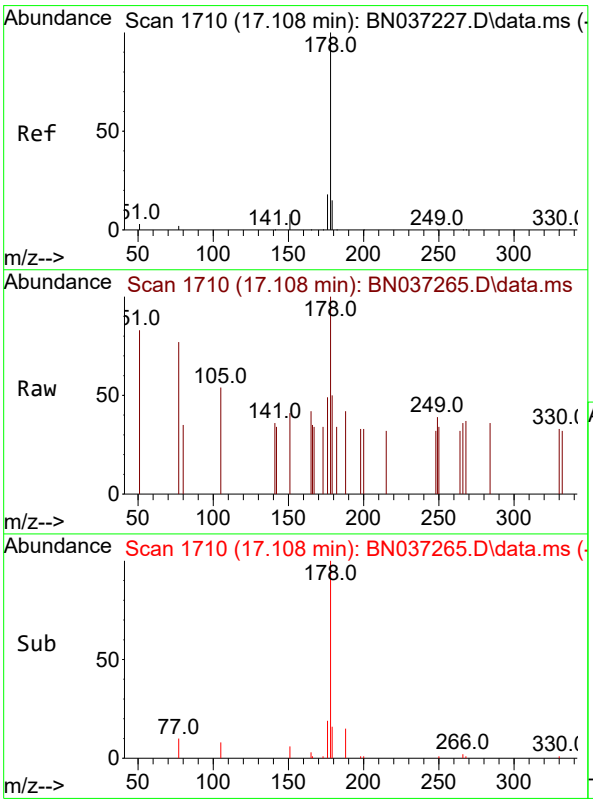
#25
Phenanthrene
Concen: 0.039 ng
RT: 17.021 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037265.D
Acq: 14 Jun 2025 17:00

Instrument :
BNA_N
ClientSampleId :
TT190D1-20250611

Tgt Ion:178 Resp: 353

Ion	Ratio	Lower	Upper
178	100		
176	17.0	16.3	24.5
179	17.0	12.6	18.8

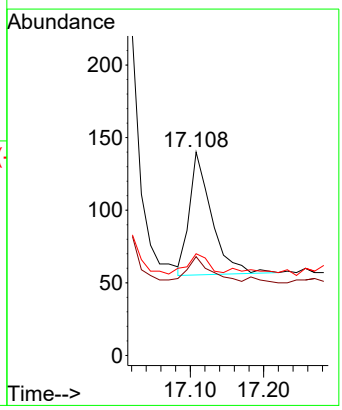


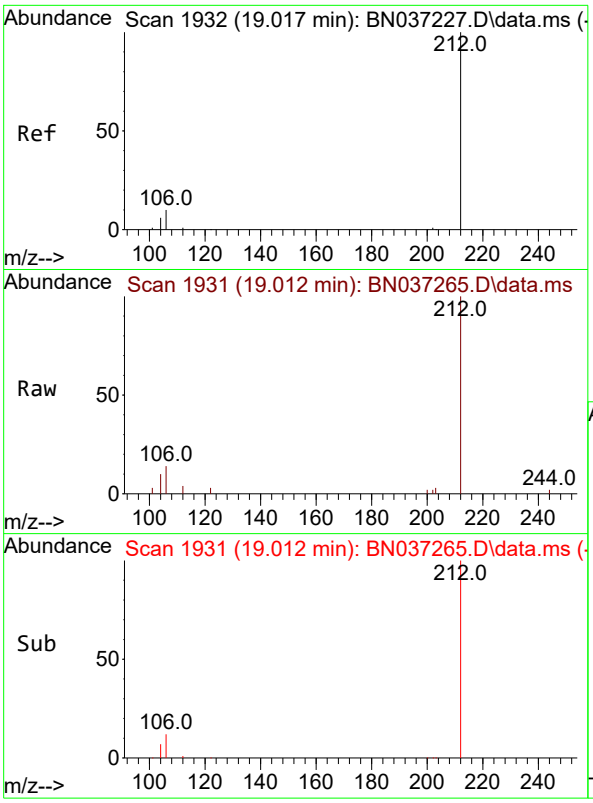


#26
Anthracene
Concen: 0.022 ng
RT: 17.108 min Scan# 1710
Delta R.T. 0.000 min
Lab File: BN037265.D
Acq: 14 Jun 2025 17:00

Tgt Ion:178 Resp: 178

Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.1	22.7
179	15.7	12.4	18.6



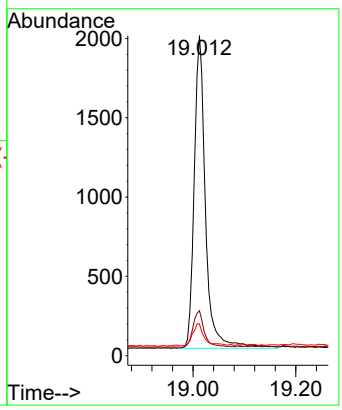


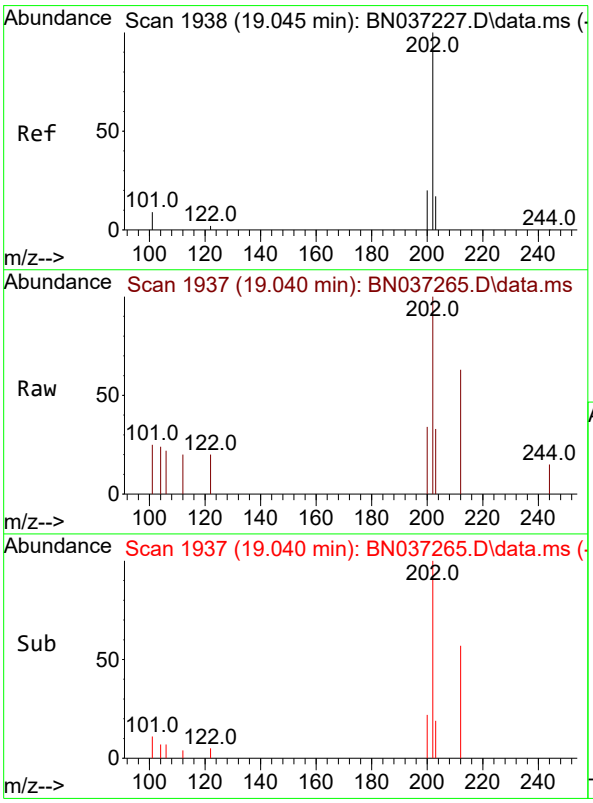
#27
Fluoranthene-d10
Concen: 0.408 ng
RT: 19.012 min Scan# 1
Delta R.T. -0.004 min
Lab File: BN037265.D
Acq: 14 Jun 2025 17:00

Instrument :
BNA_N
ClientSampleId :
TT190D1-20250611

Tgt Ion:212 Resp: 3030

Ion	Ratio	Lower	Upper
212	100		
106	11.9	9.3	13.9
104	7.2	5.7	8.5

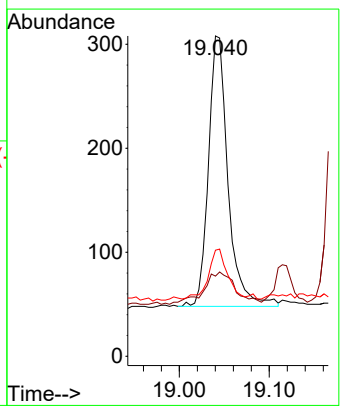


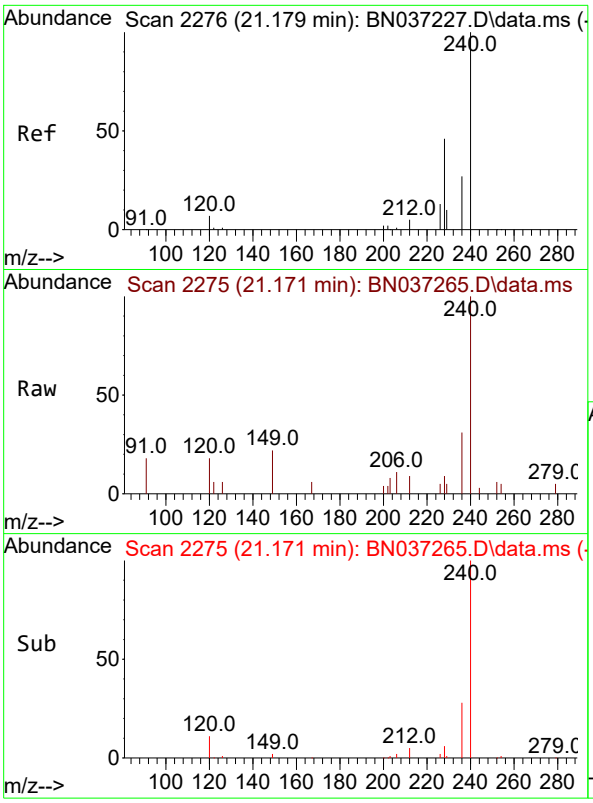


#28
Fluoranthene
Concen: 0.037 ng
RT: 19.040 min Scan# 1937
Delta R.T. -0.004 min
Lab File: BN037265.D
Acq: 14 Jun 2025 17:00

Tgt Ion:202 Resp: 393

Ion	Ratio	Lower	Upper
202	100		
101	19.3	7.1	10.7#
203	18.3	13.0	19.6



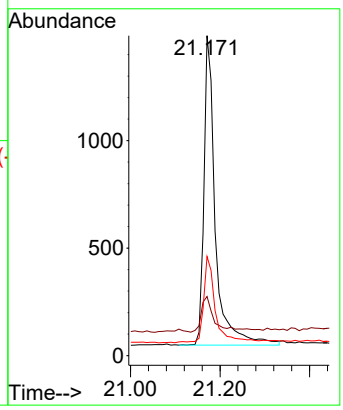


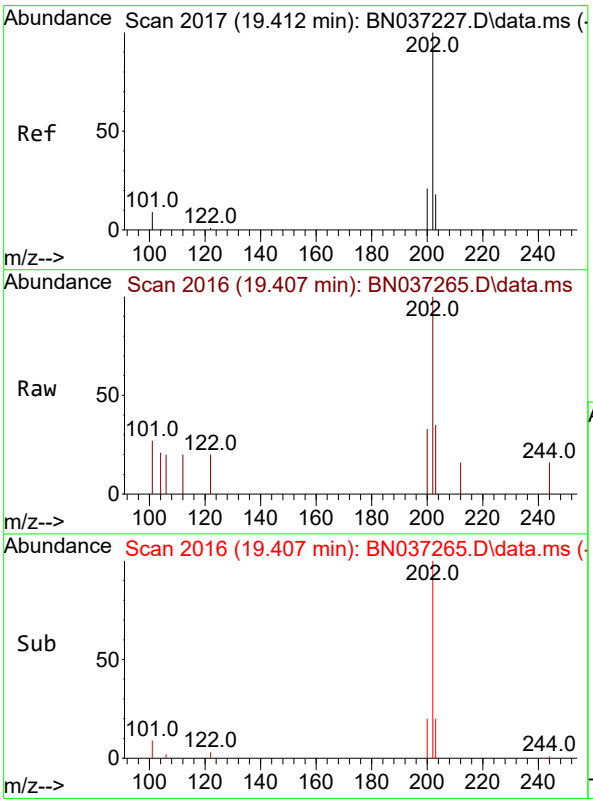
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.171 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037265.D
Acq: 14 Jun 2025 17:00

Instrument :
BNA_N
ClientSampleId :
TT190D1-20250611

Tgt Ion:240 Resp: 2558

Ion	Ratio	Lower	Upper
240	100		
120	18.5	11.3	16.9#
236	31.0	24.4	36.6

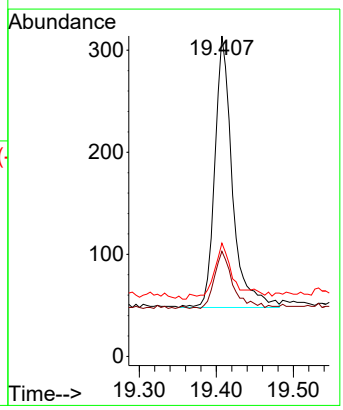


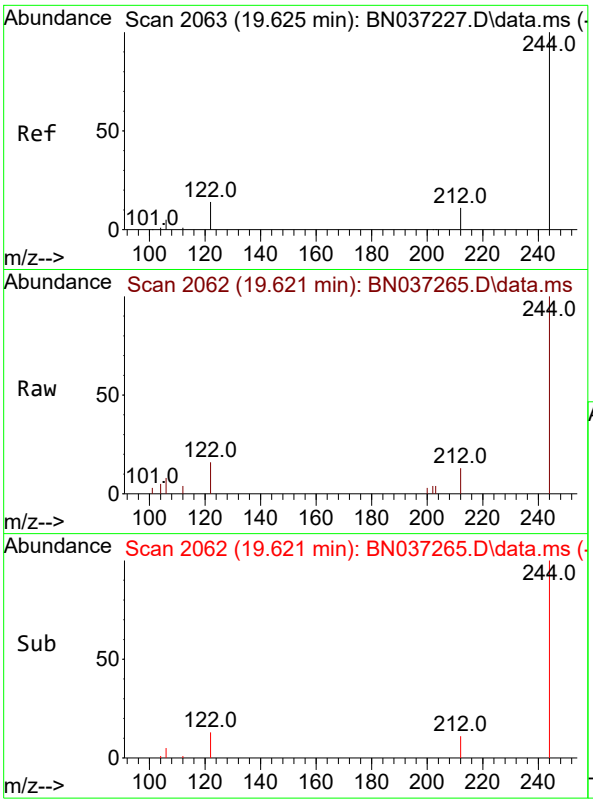


#30
Pyrene
Concen: 0.035 ng
RT: 19.407 min Scan# 2016
Delta R.T. -0.004 min
Lab File: BN037265.D
Acq: 14 Jun 2025 17:00

Tgt Ion:202 Resp: 420

Ion	Ratio	Lower	Upper
202	100		
200	22.4	17.2	25.8
203	17.4	14.3	21.5



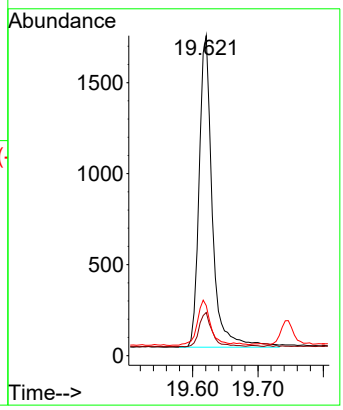


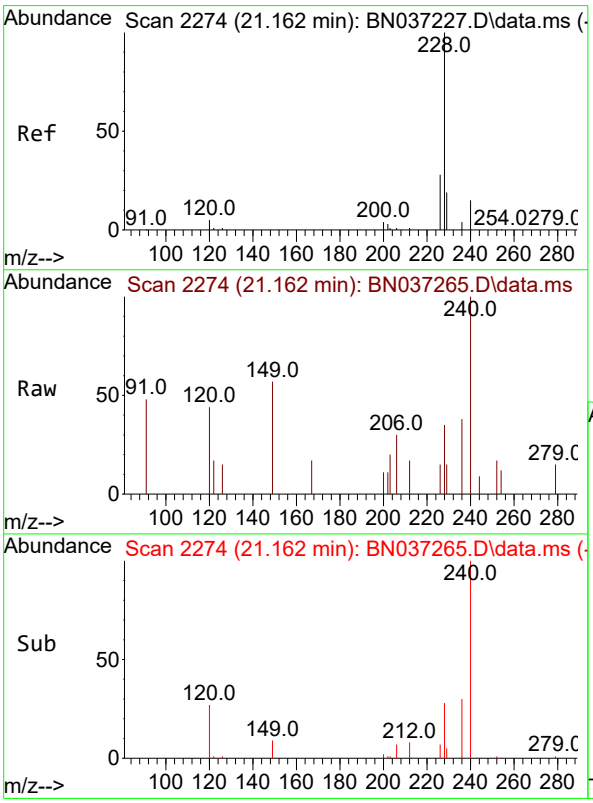
#31
Terphenyl-d14
Concen: 0.415 ng
RT: 19.621 min Scan# 2
Delta R.T. -0.004 min
Lab File: BN037265.D
Acq: 14 Jun 2025 17:00

Instrument :
BNA_N
ClientSampleId :
TT190D1-20250611

Tgt Ion:244 Resp: 2397

Ion	Ratio	Lower	Upper
244	100		
212	13.5	12.2	18.2
122	15.6	14.3	21.5

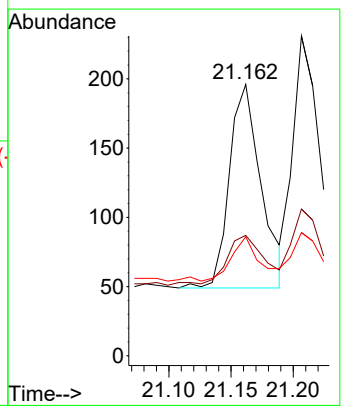


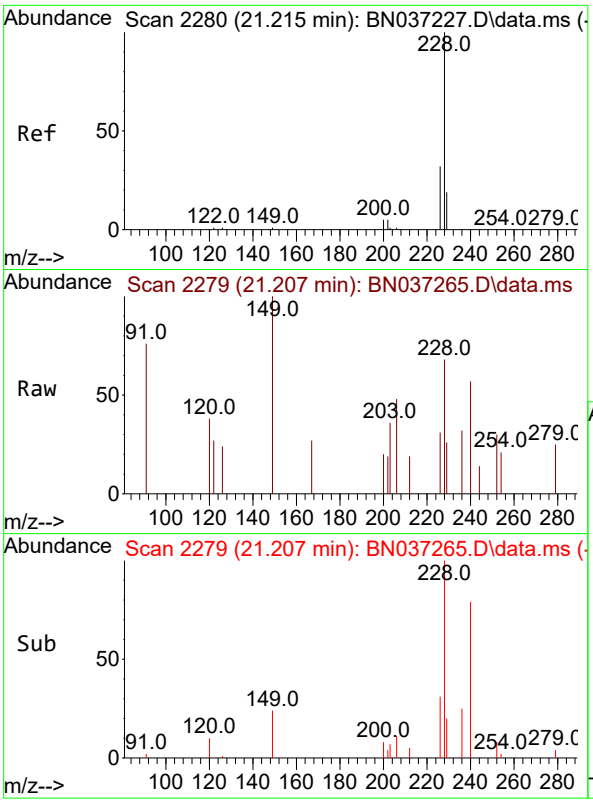


#32
Benzo(a)anthracene
Concen: 0.030 ng
RT: 21.162 min Scan# 2274
Delta R.T. 0.000 min
Lab File: BN037265.D
Acq: 14 Jun 2025 17:00

Tgt Ion:228 Resp: 261

Ion	Ratio	Lower	Upper
228	100		
226	44.4	23.8	35.8#
229	43.9	17.0	25.4#



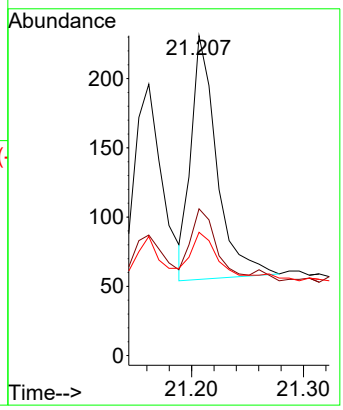


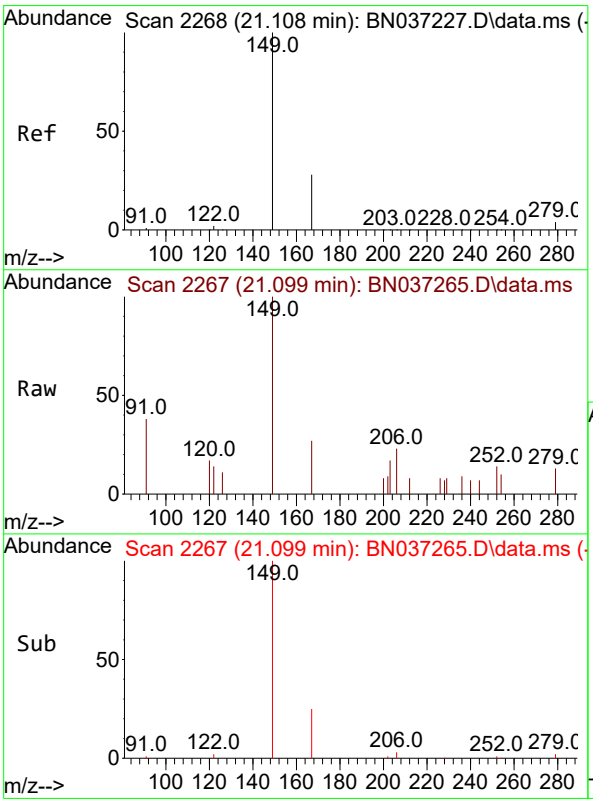
#33
Chrysene
Concen: 0.026 ng
RT: 21.207 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037265.D
Acq: 14 Jun 2025 17:00

Instrument :
BNA_N
ClientSampleId :
TT190D1-20250611

Tgt Ion:228 Resp: 281

Ion	Ratio	Lower	Upper
228	100		
226	45.9	25.8	38.6#
229	38.5	17.0	25.4#

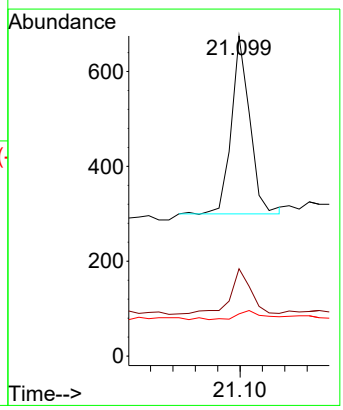


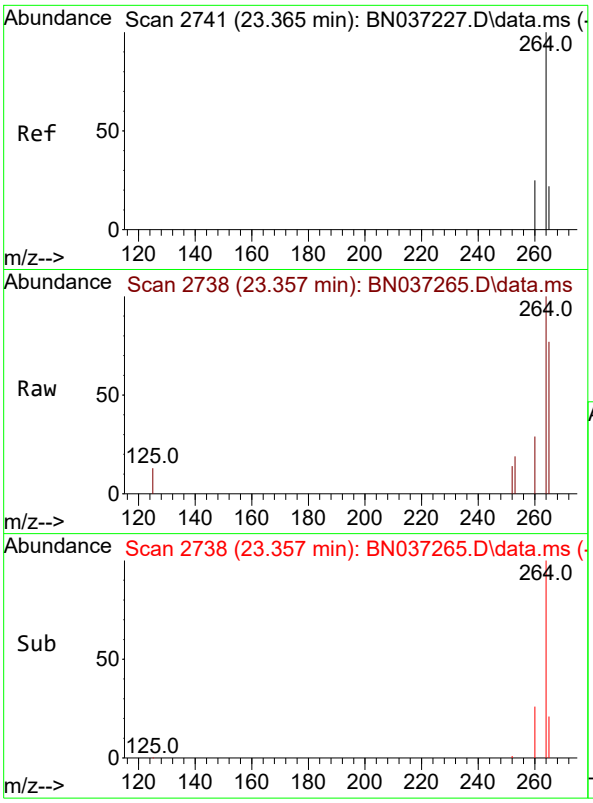


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.067 ng
RT: 21.099 min Scan# 2267
Delta R.T. -0.009 min
Lab File: BN037265.D
Acq: 14 Jun 2025 17:00

Tgt Ion:149 Resp: 429

Ion	Ratio	Lower	Upper
149	100		
167	27.5	21.3	31.9
279	7.0	3.3	4.9#



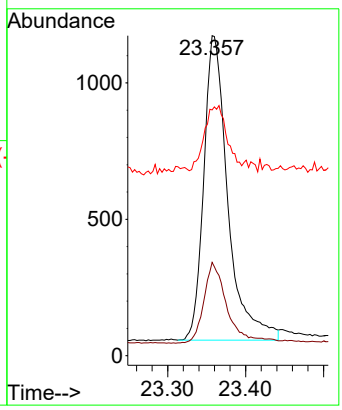


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.357 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037265.D
Acq: 14 Jun 2025 17:00

Instrument :
BNA_N
ClientSampleId :
TT190D1-20250611

Tgt Ion:264 Resp: 2398

Ion	Ratio	Lower	Upper
264	100		
260	29.2	22.8	34.2
265	76.8	66.4	99.6



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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/11/25
Client Sample ID:	RW11-MW01I-20250611	SDG No.:	Q2299
Lab Sample ID:	Q2299-19	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037266.D	1	06/13/25 08:03	06/14/25 17:36	PB168458

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.33		30 - 150		81%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.40		30 - 150		100%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.31		55 - 111		78%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.34		53 - 106		84%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.46		58 - 132		116%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1330	7.575				
1146-65-2	Naphthalene-d8	3320	10.351				
15067-26-2	Acenaphthene-d10	1700	14.224				
1517-22-2	Phenanthrene-d10	3110	16.971				
1719-03-5	Chrysene-d12	2630	21.171				
1520-96-3	Perylene-d12	2550	23.36				

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_N\Data\BN061325\
Data File : BN037266.D
Acq On : 14 Jun 2025 17:36
Operator : RC/JU
Sample : Q2299-19
Misc :
ALS Vial : 45 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW11-MW01I-20250611

Quant Time: Jun 16 02:44:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration

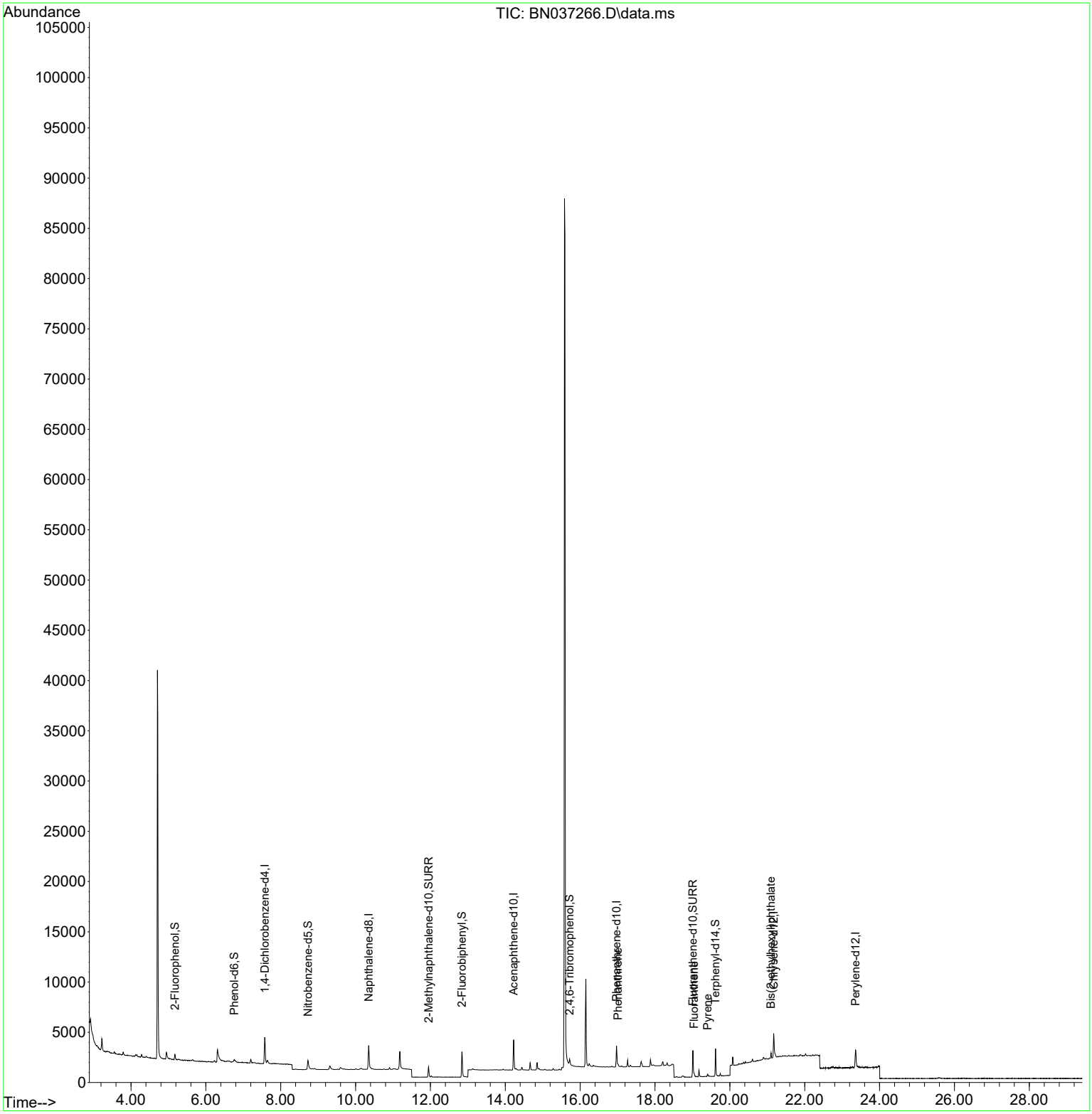
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	1325	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	3321	0.400	ng	#-0.01
13) Acenaphthene-d10	14.224	164	1702	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	3112	0.400	ng	0.00
29) Chrysene-d12	21.171	240	2629	0.400	ng	# 0.00
35) Perylene-d12	23.360	264	2551	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	420	0.129	ng	0.00
5) Phenol-d6	6.759	99	224	0.065	ng	0.00
8) Nitrobenzene-d5	8.728	82	1028	0.313	ng	0.00
11) 2-Methylnaphthalene-d10	11.950	152	1452	0.326	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	272	0.385	ng	-0.01
15) 2-Fluorobiphenyl	12.843	172	2419	0.338	ng	0.00
27) Fluoranthene-d10	19.012	212	3260	0.400	ng	0.00
31) Terphenyl-d14	19.616	244	2758	0.464	ng	0.00
Target Compounds						Qvalue
25) Phenanthrene	17.009	178	248	0.025	ng	# 92
28) Fluoranthene	19.040	202	251	0.022	ng	# 78
30) Pyrene	19.407	202	265	0.021	ng	96
34) Bis(2-ethylhexyl)phtha...	21.099	149	509	0.077	ng	# 95

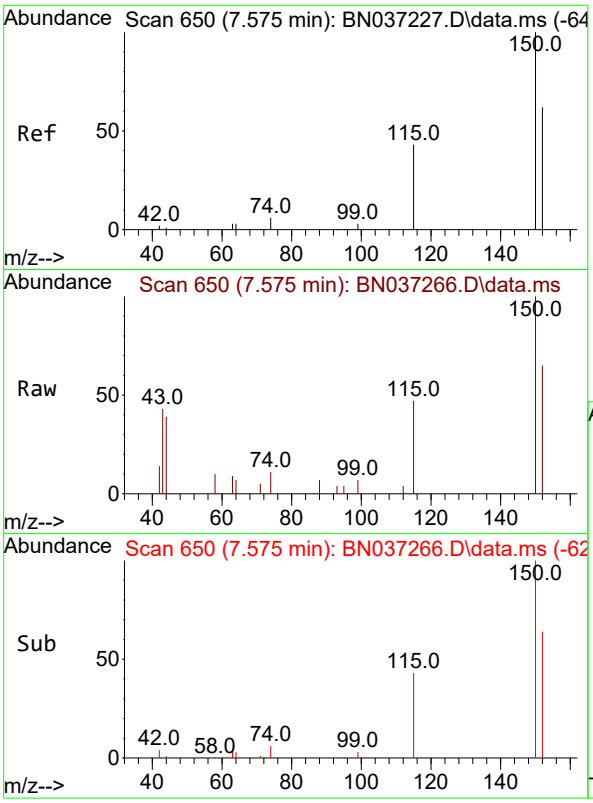
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037266.D
Acq On : 14 Jun 2025 17:36
Operator : RC/JU
Sample : Q2299-19
Misc :
ALS Vial : 45 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW11-MW01I-20250611

Quant Time: Jun 16 02:44:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration



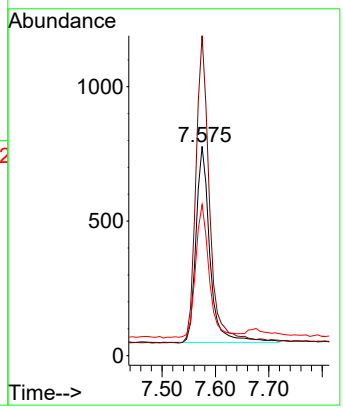


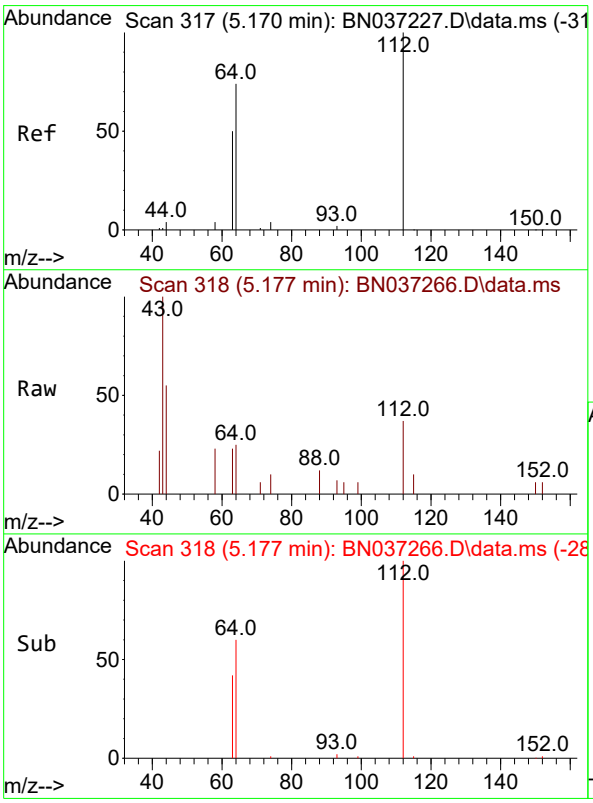
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN037266.D
Acq: 14 Jun 2025 17:36

Instrument :
BNA_N
ClientSampleId :
RW11-MW01I-20250611

Tgt Ion:152 Resp: 1325

Ion	Ratio	Lower	Upper
152	100		
150	153.0	125.2	187.8
115	72.2	58.4	87.6

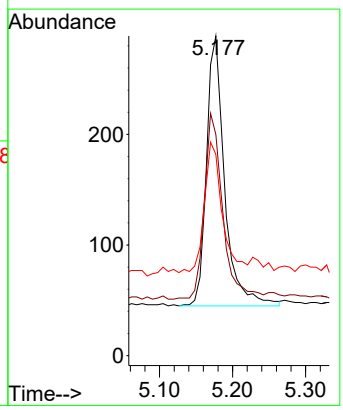


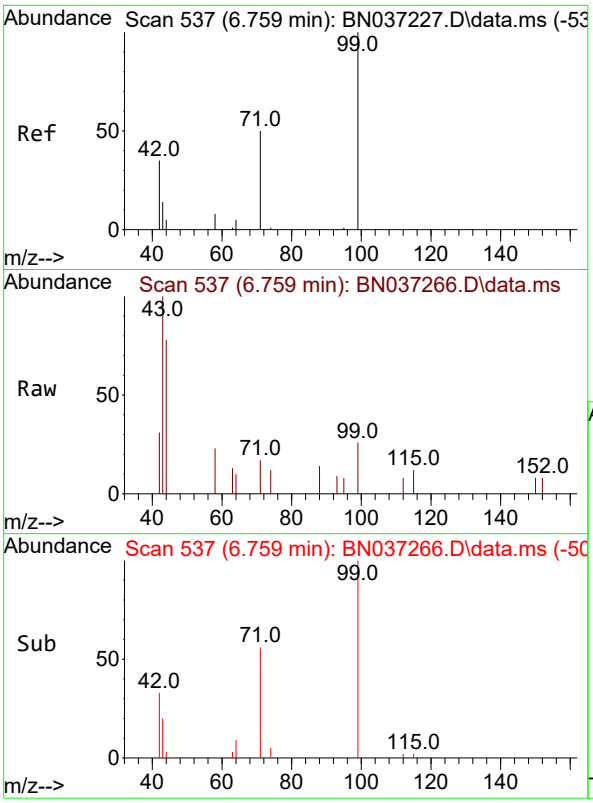


#4
2-Fluorophenol
Concen: 0.129 ng
RT: 5.177 min Scan# 318
Delta R.T. 0.007 min
Lab File: BN037266.D
Acq: 14 Jun 2025 17:36

Tgt Ion:112 Resp: 420

Ion	Ratio	Lower	Upper
112	100		
64	69.8	57.2	85.8
63	47.6	39.8	59.6



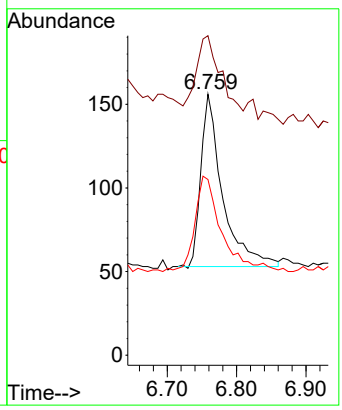


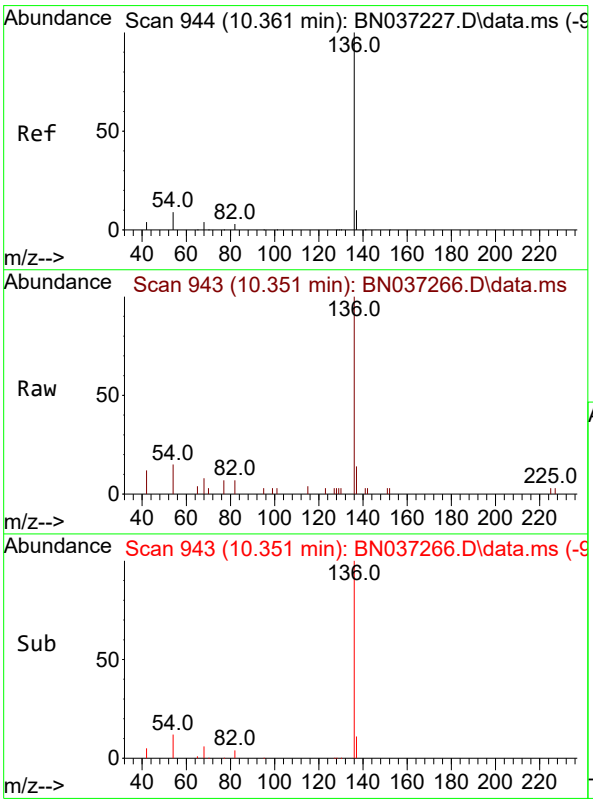
#5
Phenol-d6
Concen: 0.065 ng
RT: 6.759 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN037266.D
Acq: 14 Jun 2025 17:36

Instrument :
BNA_N
ClientSampleId :
RW11-MW01I-20250611

Tgt Ion: 99 Resp: 224

Ion	Ratio	Lower	Upper
99	100		
42	46.0	36.2	54.4
71	68.3	42.4	63.6#

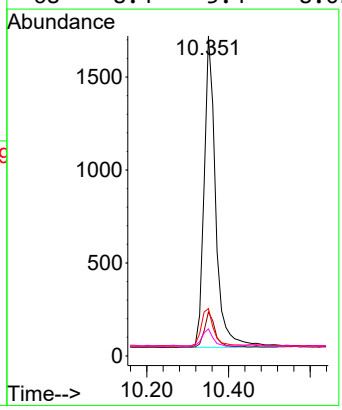


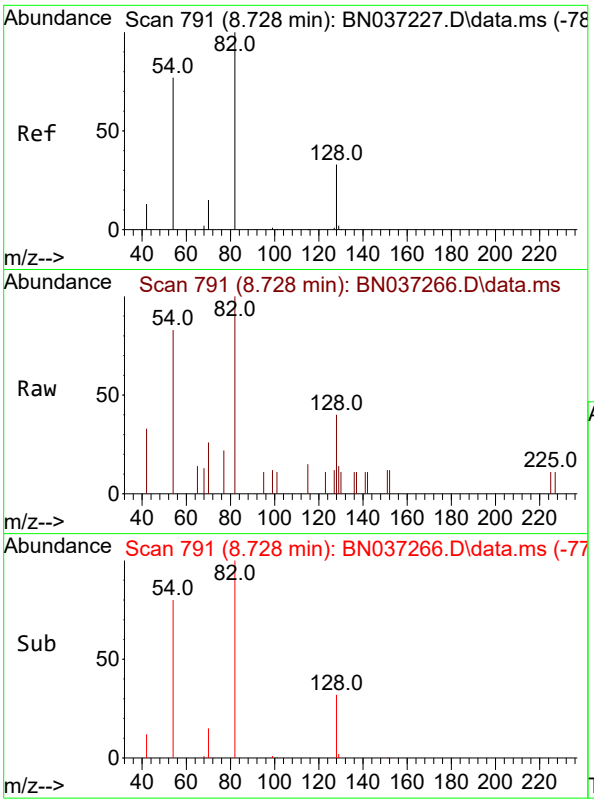


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 943
Delta R.T. -0.011 min
Lab File: BN037266.D
Acq: 14 Jun 2025 17:36

Tgt Ion:136 Resp: 3321

Ion	Ratio	Lower	Upper
136	100		
137	13.7	10.6	15.8
54	14.8	9.2	13.8#
68	8.4	5.4	8.0#



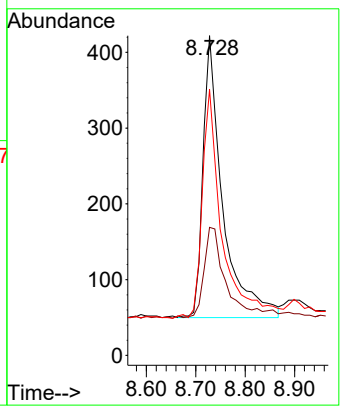


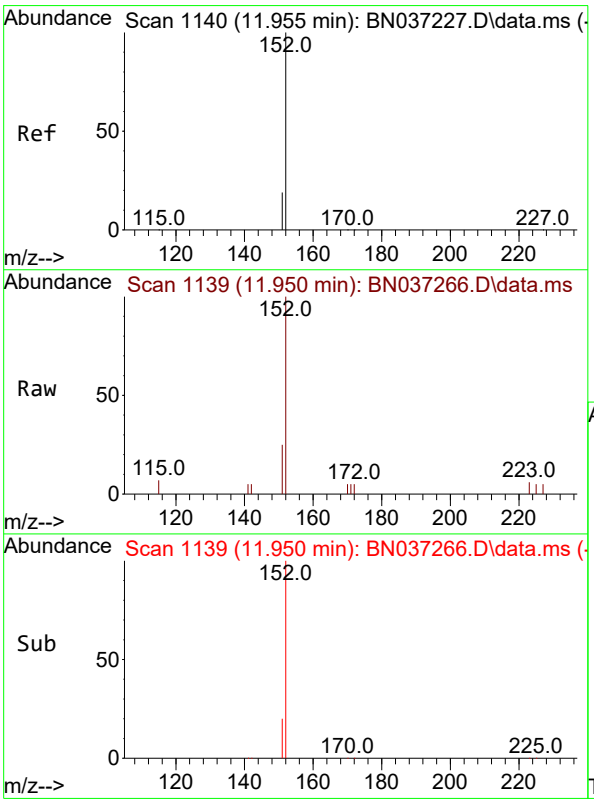
#8
Nitrobenzene-d5
Concen: 0.313 ng
RT: 8.728 min Scan# 7
Delta R.T. 0.000 min
Lab File: BN037266.D
Acq: 14 Jun 2025 17:36

Instrument :
BNA_N
ClientSampleId :
RW11-MW01I-20250611

Tgt Ion: 82 Resp: 1028

Ion	Ratio	Lower	Upper
82	100		
128	40.0	31.2	46.8
54	83.2	63.3	94.9

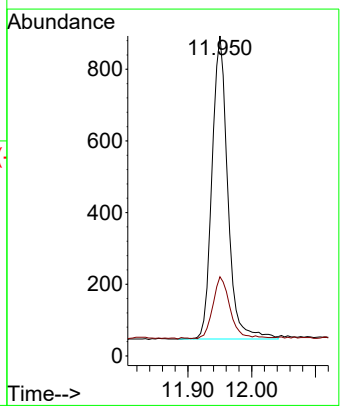


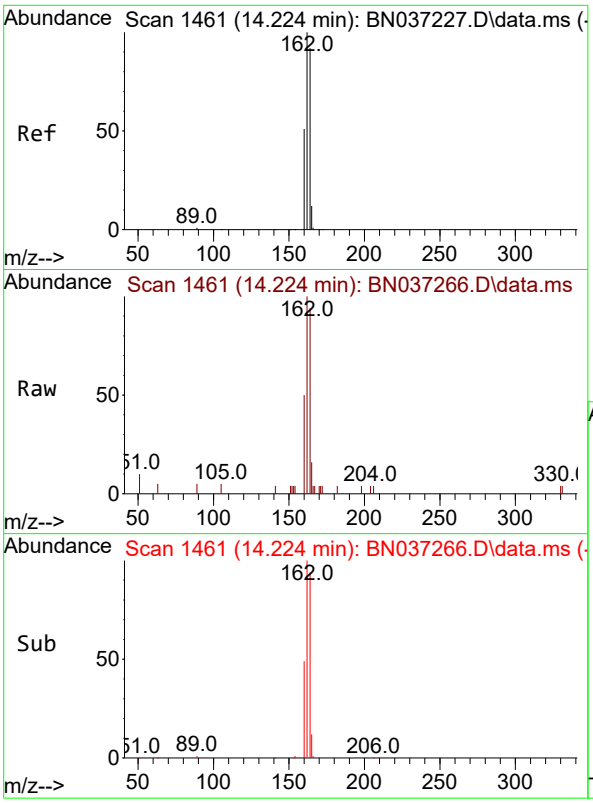


#11
2-Methylnaphthalene-d10
Concen: 0.326 ng
RT: 11.950 min Scan# 1139
Delta R.T. -0.005 min
Lab File: BN037266.D
Acq: 14 Jun 2025 17:36

Tgt Ion:152 Resp: 1452

Ion	Ratio	Lower	Upper
152	100		
151	22.5	17.9	26.9



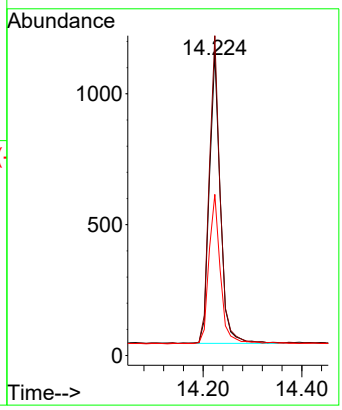


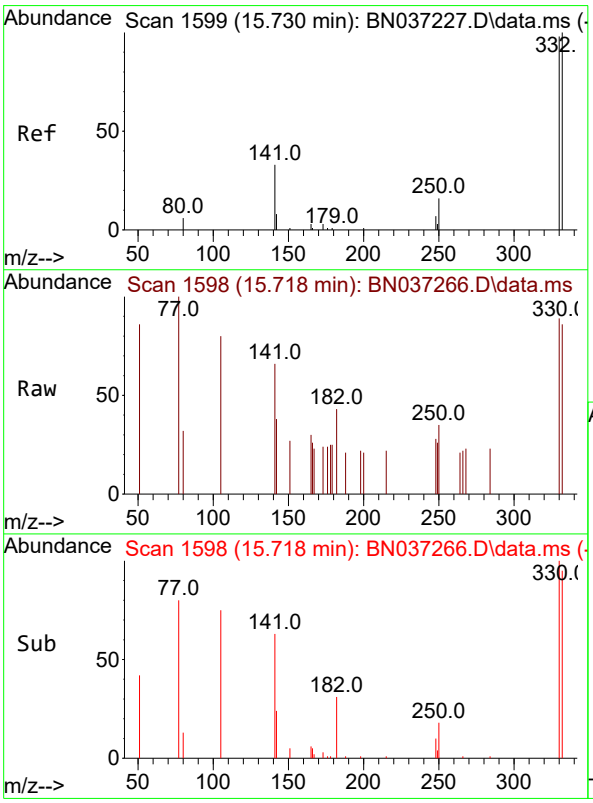
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037266.D
Acq: 14 Jun 2025 17:36

Instrument :
BNA_N
ClientSampleId :
RW11-MW01I-20250611

Tgt Ion:164 Resp: 1702

Ion	Ratio	Lower	Upper
164	100		
162	105.9	86.7	130.1
160	53.4	45.8	68.6

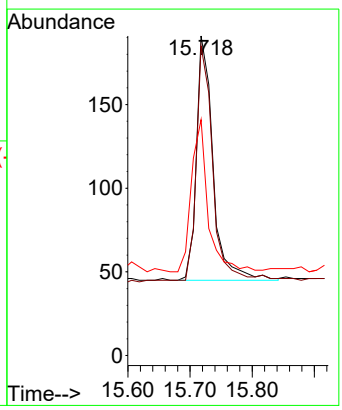


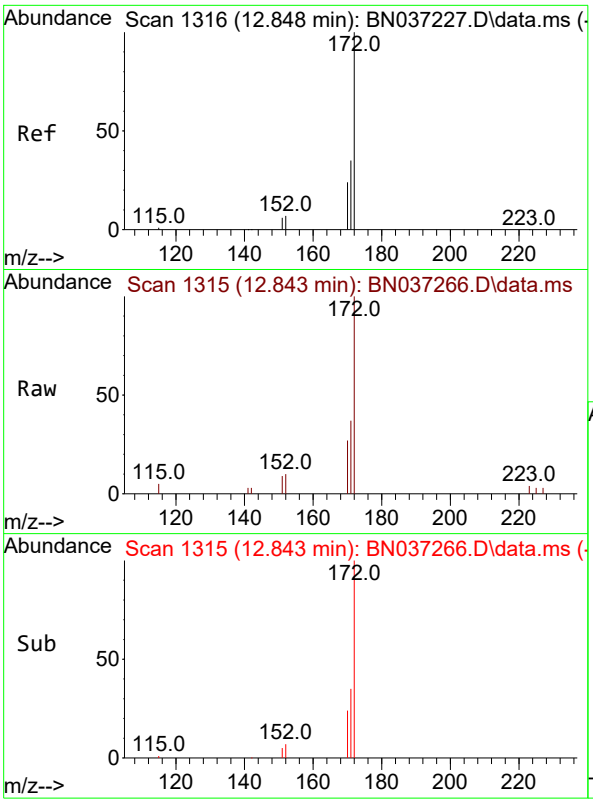


#14
2,4,6-Tribromophenol
Concen: 0.385 ng
RT: 15.718 min Scan# 1598
Delta R.T. -0.012 min
Lab File: BN037266.D
Acq: 14 Jun 2025 17:36

Tgt Ion:330 Resp: 272

Ion	Ratio	Lower	Upper
330	100		
332	94.1	74.9	112.3
141	62.5	45.1	67.7



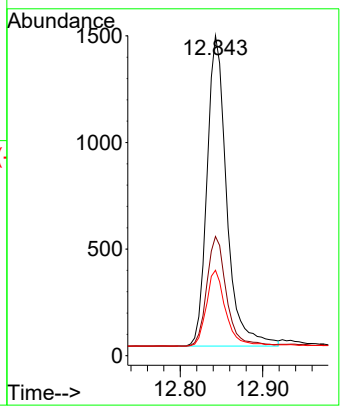


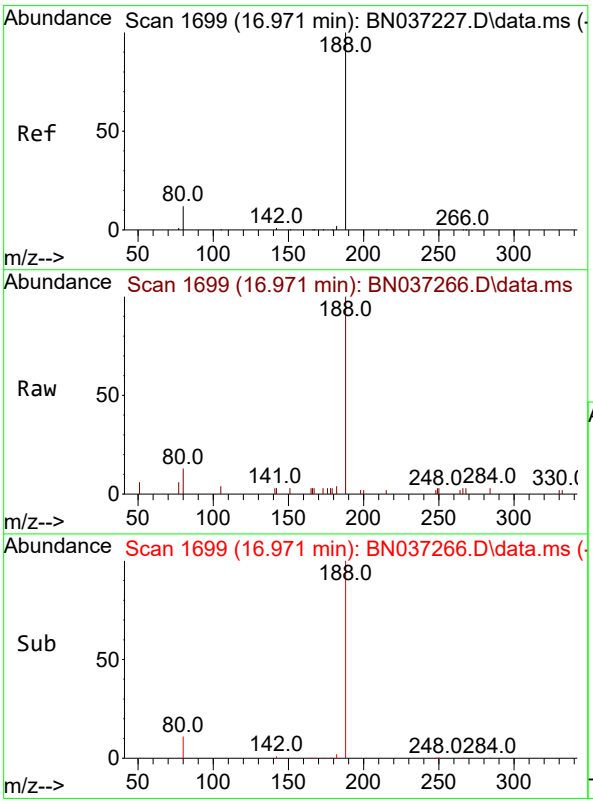
#15
2-Fluorobiphenyl
Concen: 0.338 ng
RT: 12.843 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN037266.D
Acq: 14 Jun 2025 17:36

Instrument :
BNA_N
ClientSampleId :
RW11-MW01I-20250611

Tgt Ion:172 Resp: 2419

Ion	Ratio	Lower	Upper
172	100		
171	37.2	29.8	44.8
170	26.7	21.1	31.7

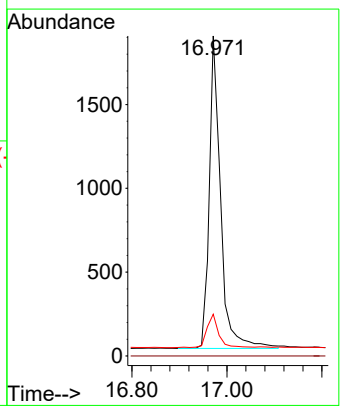


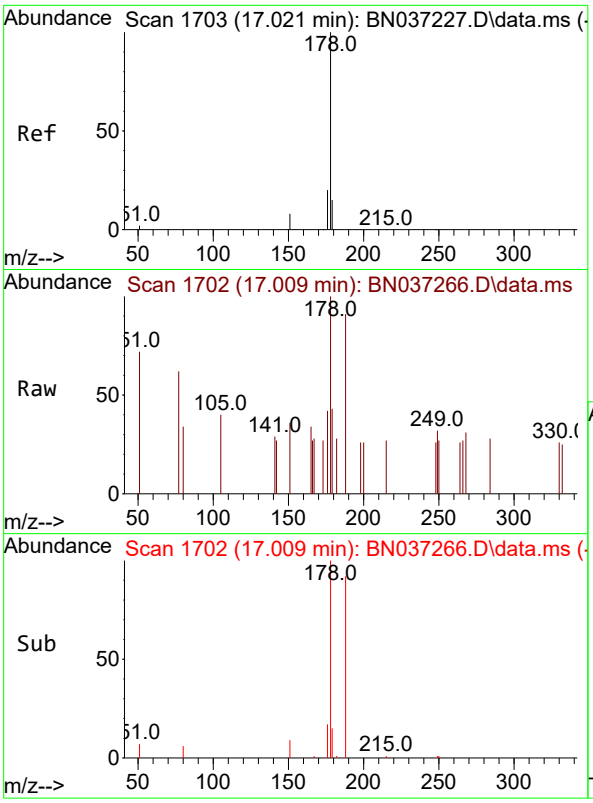


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1699
Delta R.T. 0.000 min
Lab File: BN037266.D
Acq: 14 Jun 2025 17:36

Tgt Ion:188 Resp: 3112

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	13.0	12.2	18.4



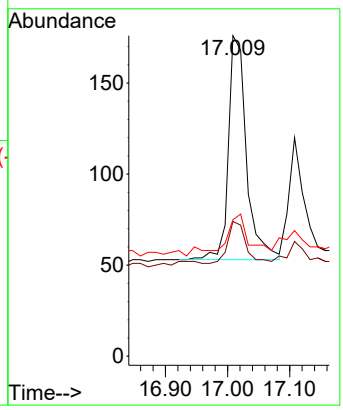


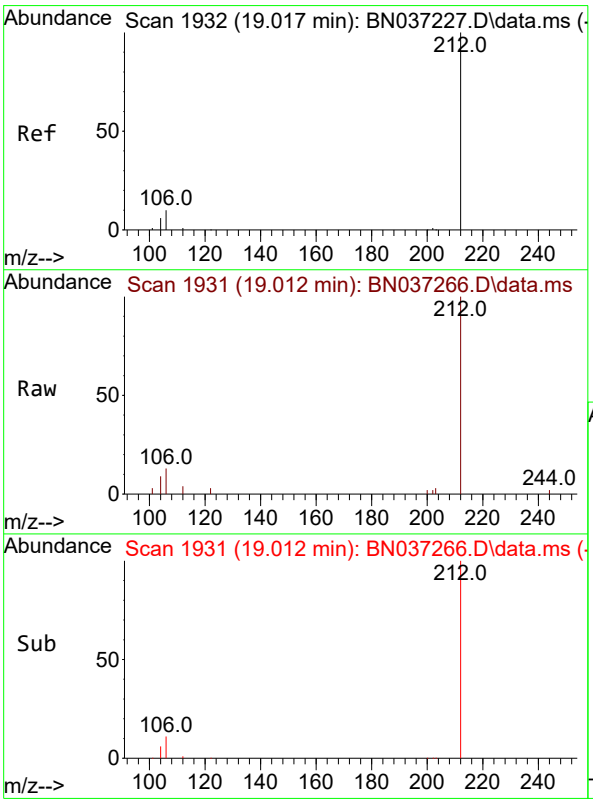
#25
Phenanthrene
Concen: 0.025 ng
RT: 17.009 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037266.D
Acq: 14 Jun 2025 17:36

Instrument :
BNA_N
ClientSampleId :
RW11-MW01I-20250611

Tgt Ion:178 Resp: 248

Ion	Ratio	Lower	Upper
178	100		
176	19.8	16.3	24.5
179	23.0	12.6	18.8#

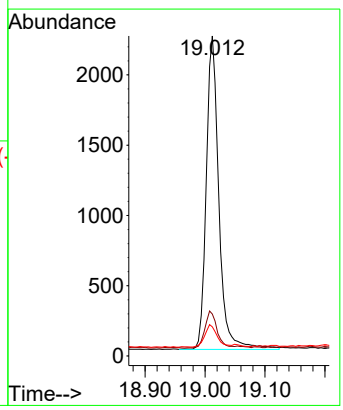


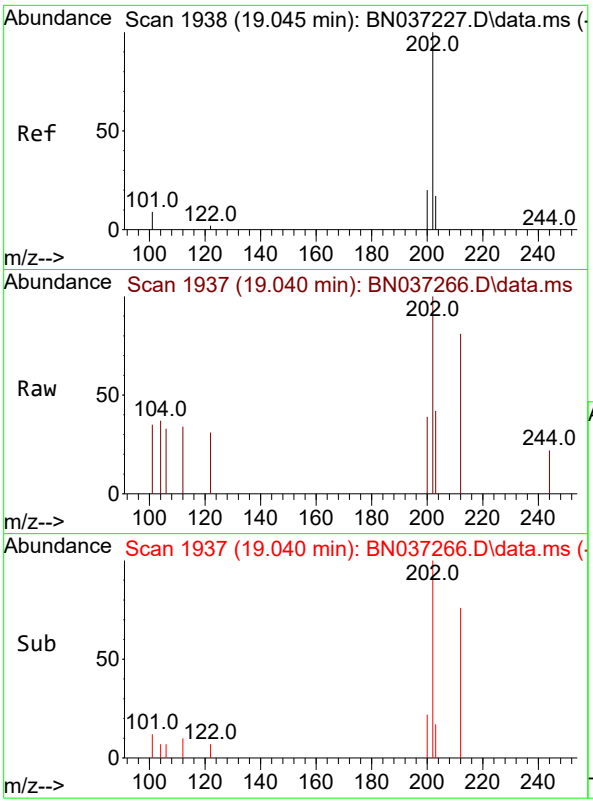


#27
Fluoranthene-d10
Concen: 0.400 ng
RT: 19.012 min Scan# 1931
Delta R.T. -0.005 min
Lab File: BN037266.D
Acq: 14 Jun 2025 17:36

Tgt Ion:212 Resp: 3260

Ion	Ratio	Lower	Upper
212	100		
106	11.4	9.3	13.9
104	6.9	5.7	8.5



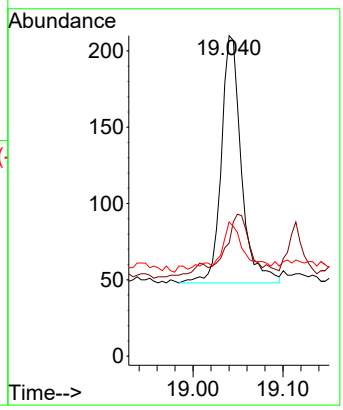


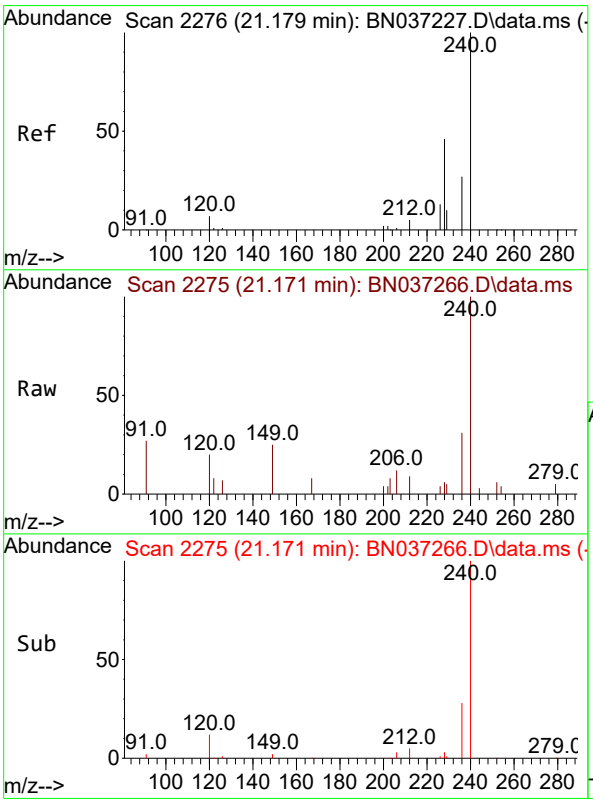
#28
Fluoranthene
Concen: 0.022 ng
RT: 19.040 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN037266.D
Acq: 14 Jun 2025 17:36

Instrument :
BNA_N
ClientSampleId :
RW11-MW01I-20250611

Tgt Ion:202 Resp: 251

Ion	Ratio	Lower	Upper
202	100		
101	24.3	7.1	10.7#
203	20.7	13.0	19.6#

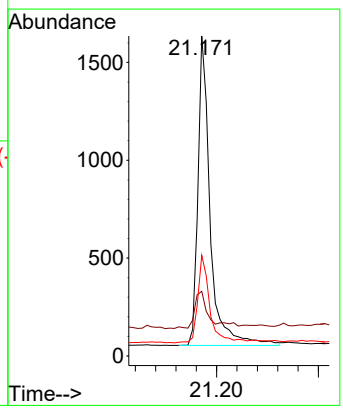


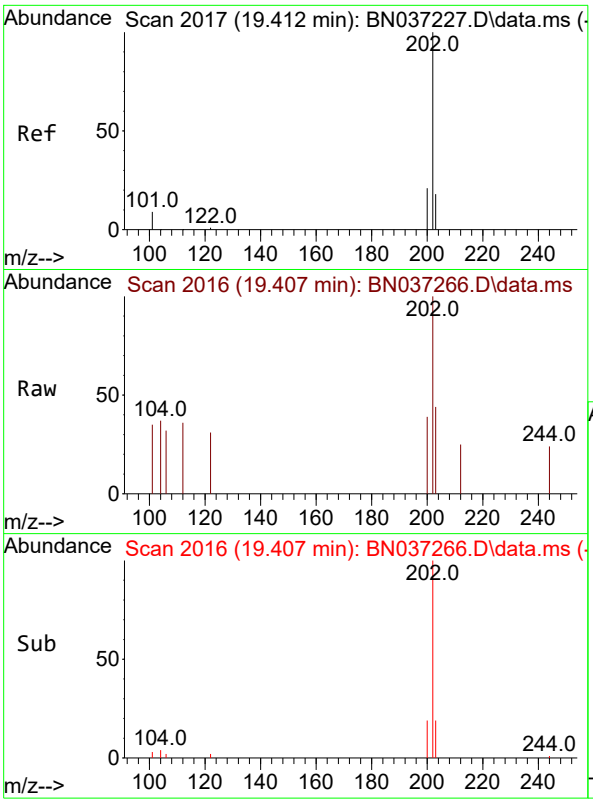


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.171 min Scan# 2275
Delta R.T. -0.009 min
Lab File: BN037266.D
Acq: 14 Jun 2025 17:36

Tgt Ion:240 Resp: 2629

Ion	Ratio	Lower	Upper
240	100		
120	20.2	11.3	16.9#
236	31.4	24.4	36.6



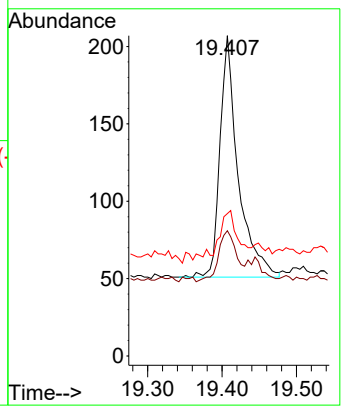


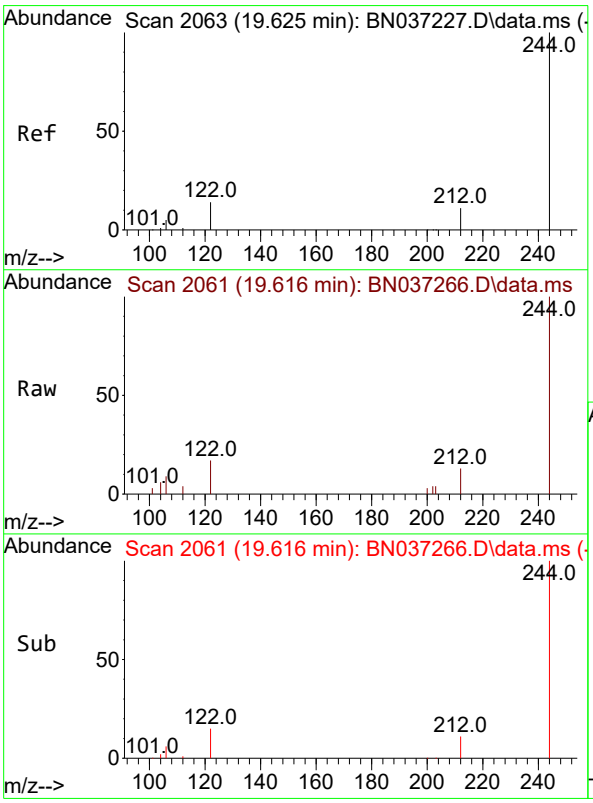
#30
Pyrene
Concen: 0.021 ng
RT: 19.407 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN037266.D
Acq: 14 Jun 2025 17:36

Instrument :
BNA_N
ClientSampleId :
RW11-MW01I-20250611

Tgt Ion:202 Resp: 265

Ion	Ratio	Lower	Upper
202	100		
200	21.1	17.2	25.8
203	21.1	14.3	21.5

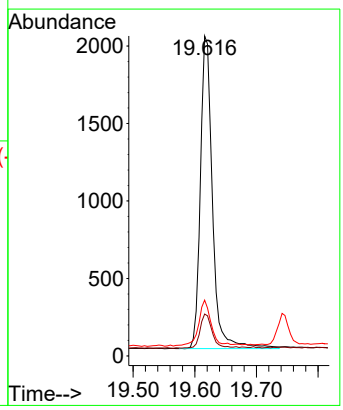


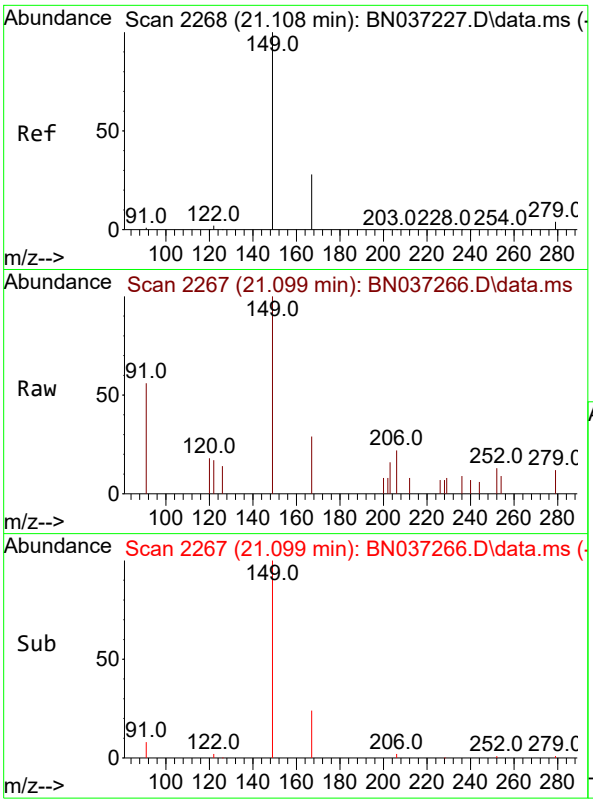


#31
Terphenyl-d14
Concen: 0.464 ng
RT: 19.616 min Scan# 2061
Delta R.T. -0.009 min
Lab File: BN037266.D
Acq: 14 Jun 2025 17:36

Tgt Ion:244 Resp: 2758

Ion	Ratio	Lower	Upper
244	100		
212	13.1	12.2	18.2
122	17.4	14.3	21.5



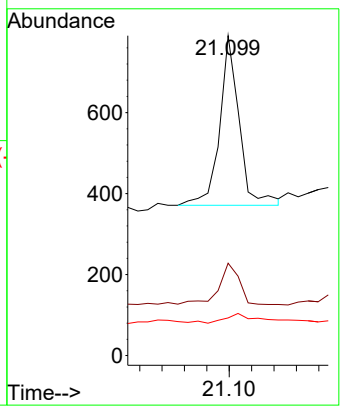


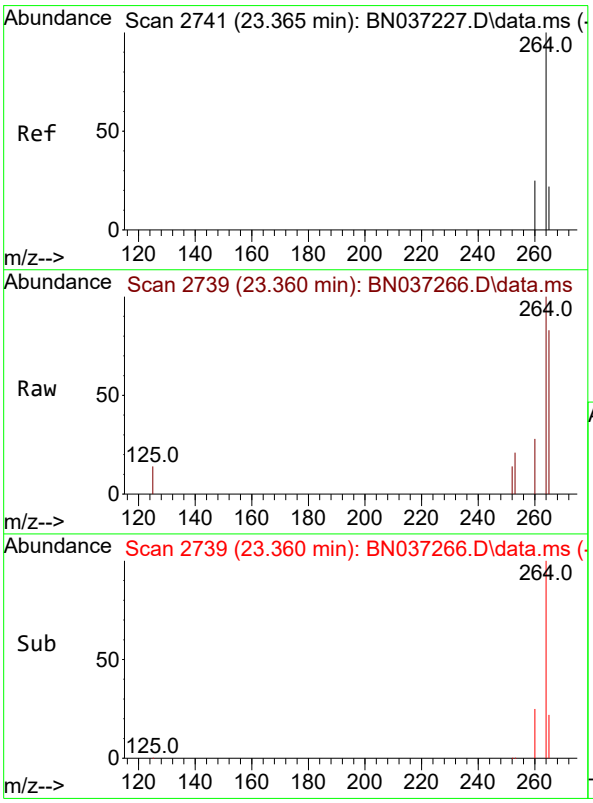
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.077 ng
RT: 21.099 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037266.D
Acq: 14 Jun 2025 17:36

Instrument :
BNA_N
ClientSampleId :
RW11-MW01I-20250611

Tgt Ion:149 Resp: 509

Ion	Ratio	Lower	Upper
149	100		
167	25.0	21.3	31.9
279	10.4	3.3	4.9#

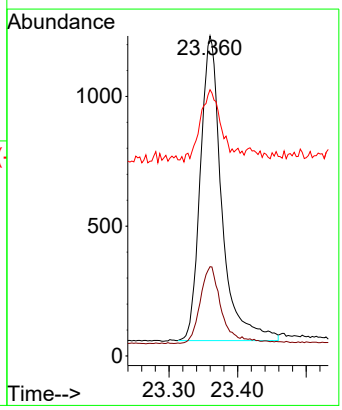




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.360 min Scan# 2739
Delta R.T. -0.006 min
Lab File: BN037266.D
Acq: 14 Jun 2025 17:36

Tgt Ion:264 Resp: 2551

Ion	Ratio	Lower	Upper
264	100		
260	27.9	22.8	34.2
265	83.2	66.4	99.6



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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/11/25
Client Sample ID:	RW11-MW01S-20250611	SDG No.:	Q2299
Lab Sample ID:	Q2299-20	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037267.D	1	06/13/25 08:03	06/14/25 18:12	PB168458

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.29		30 - 150		72%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.37		30 - 150		92%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.26		55 - 111		65%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.29		53 - 106		72%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.45		58 - 132		113%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1400	7.575				
1146-65-2	Naphthalene-d8	3630	10.351				
15067-26-2	Acenaphthene-d10	1890	14.224				
1517-22-2	Phenanthrene-d10	3450	16.971				
1719-03-5	Chrysene-d12	2450	21.171				
1520-96-3	Perylene-d12	2250	23.363				

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_N\Data\BN061325\
Data File : BN037267.D
Acq On : 14 Jun 2025 18:12
Operator : RC/JU
Sample : Q2299-20
Misc :
ALS Vial : 46 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW11-MW01S-20250611

Quant Time: Jun 16 02:44:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration

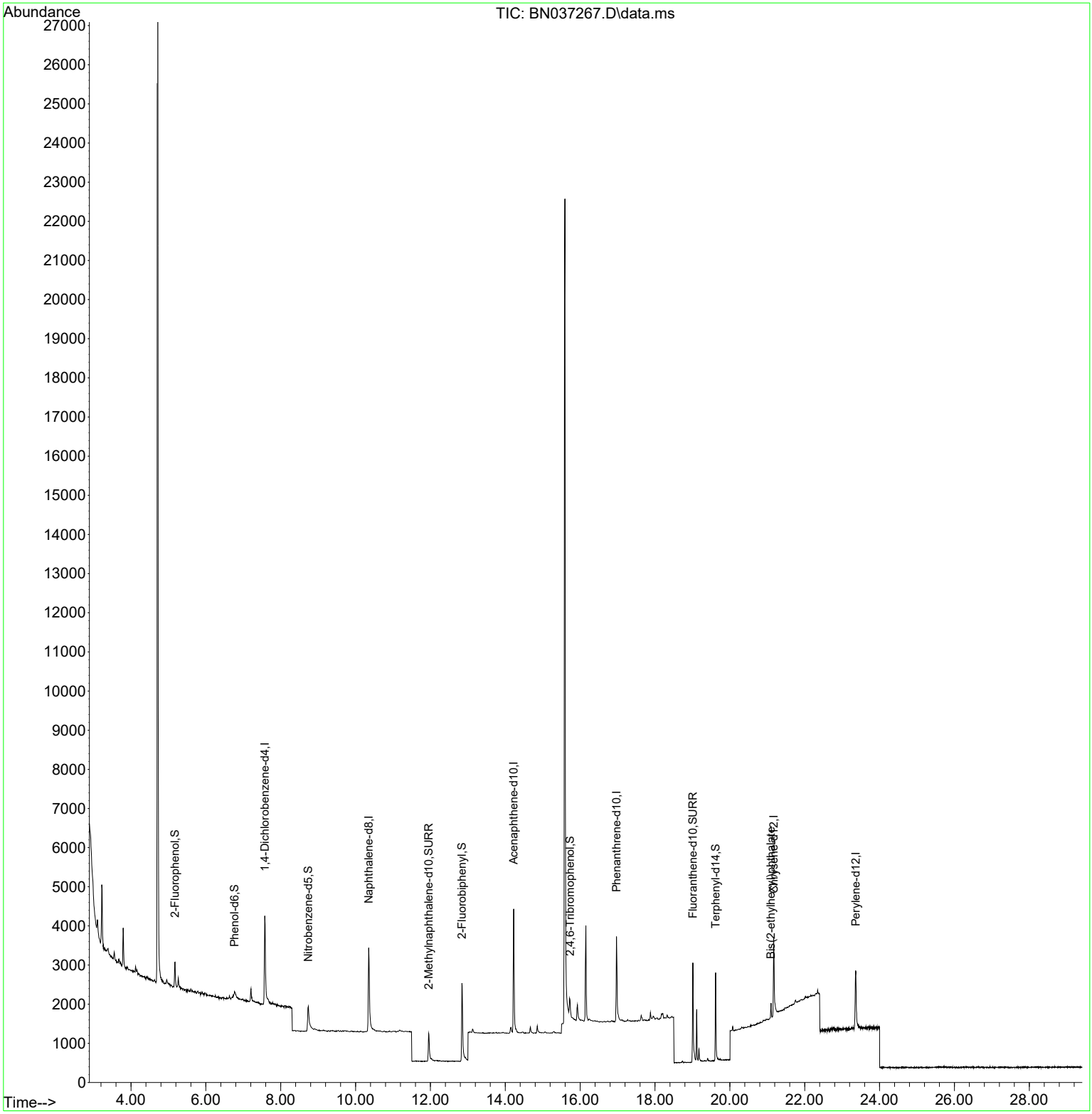
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	1398	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	3634	0.400	ng	#-0.01
13) Acenaphthene-d10	14.224	164	1888	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	3453	0.400	ng	0.00
29) Chrysene-d12	21.171	240	2450	0.400	ng	# 0.00
35) Perylene-d12	23.363	264	2246	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	499	0.145	ng	0.00
5) Phenol-d6	6.766	99	263	0.073	ng	0.00
8) Nitrobenzene-d5	8.739	82	940	0.262	ng	0.01
11) 2-Methylnaphthalene-d10	11.955	152	1415	0.290	ng	0.00
14) 2,4,6-Tribromophenol	15.730	330	275	0.351	ng	0.00
15) 2-Fluorobiphenyl	12.843	172	2301	0.290	ng	0.00
27) Fluoranthene-d10	19.012	212	3338	0.369	ng	0.00
31) Terphenyl-d14	19.621	244	2490	0.450	ng	0.00
Target Compounds						Qvalue
34) Bis(2-ethylhexyl)phtha...	21.099	149	357	0.058	ng	# 93

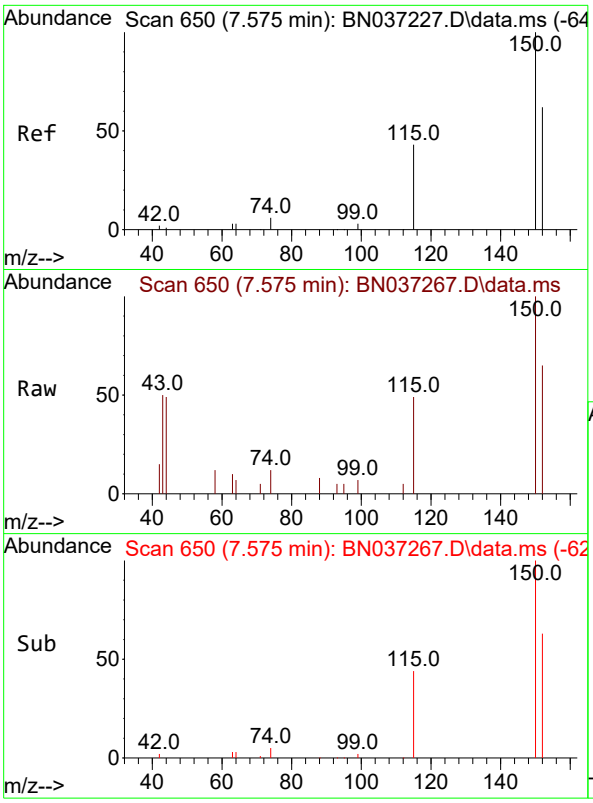
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037267.D
Acq On : 14 Jun 2025 18:12
Operator : RC/JU
Sample : Q2299-20
Misc :
ALS Vial : 46 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW11-MW01S-20250611

Quant Time: Jun 16 02:44:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration



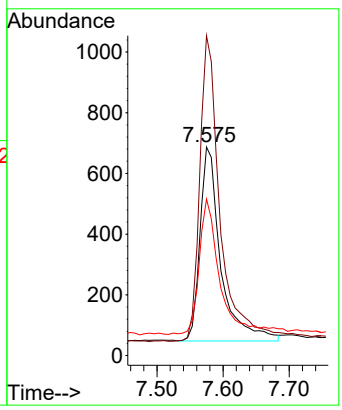


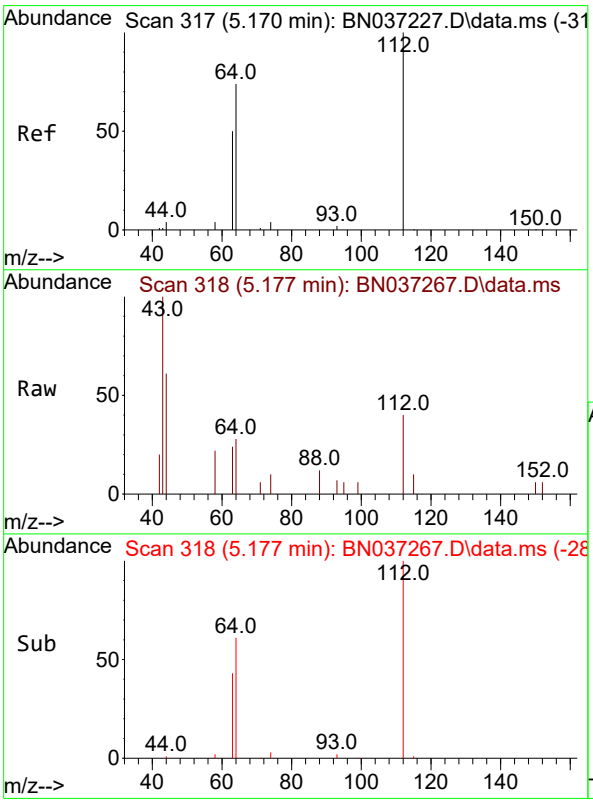
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN037267.D
Acq: 14 Jun 2025 18:12

Instrument :
BNA_N
ClientSampleId :
RW11-MW01S-20250611

Tgt Ion:152 Resp: 1398

Ion	Ratio	Lower	Upper
152	100		
150	153.4	125.2	187.8
115	75.1	58.4	87.6

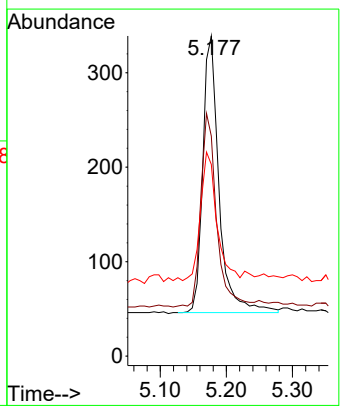


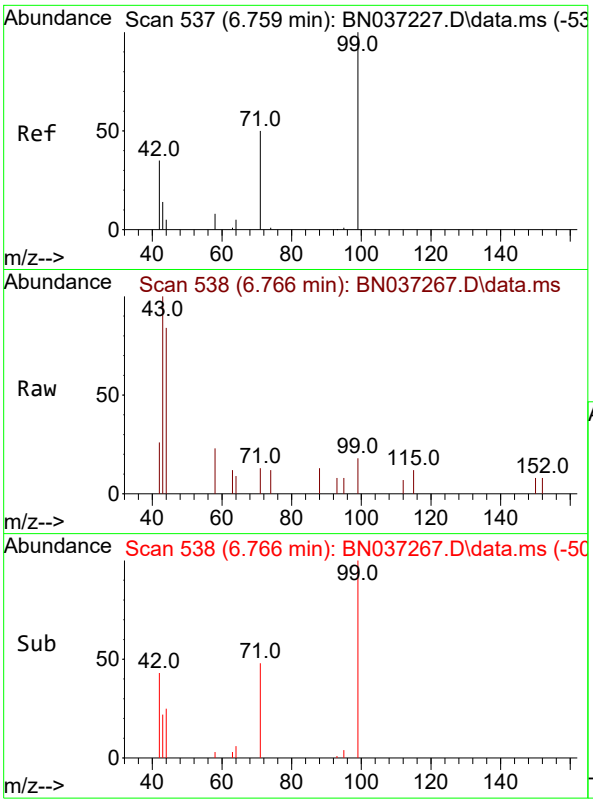


#4
2-Fluorophenol
Concen: 0.145 ng
RT: 5.177 min Scan# 318
Delta R.T. 0.007 min
Lab File: BN037267.D
Acq: 14 Jun 2025 18:12

Tgt Ion:112 Resp: 499

Ion	Ratio	Lower	Upper
112	100		
64	67.7	57.2	85.8
63	46.7	39.8	59.6



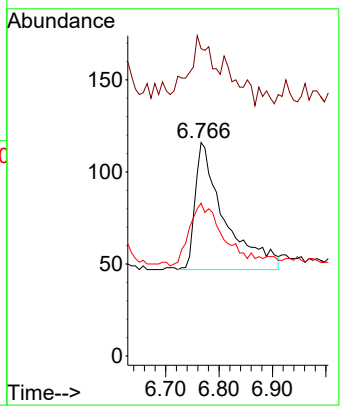


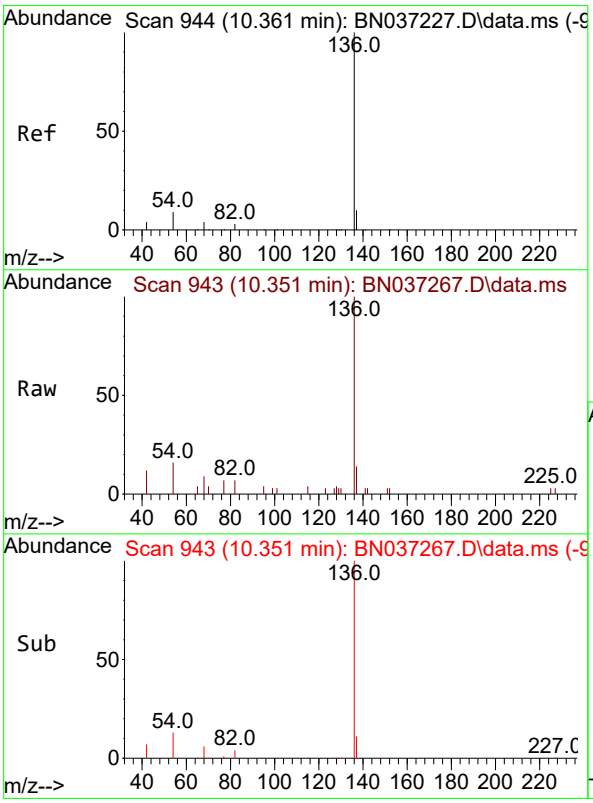
#5
Phenol-d6
Concen: 0.073 ng
RT: 6.766 min Scan# 5
Delta R.T. 0.007 min
Lab File: BN037267.D
Acq: 14 Jun 2025 18:12

Instrument :
BNA_N
ClientSampleId :
RW11-MW01S-20250611

Tgt Ion: 99 Resp: 263

Ion	Ratio	Lower	Upper
99	100		
42	33.5	36.2	54.4#
71	54.8	42.4	63.6

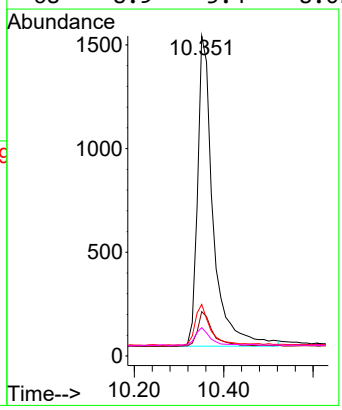


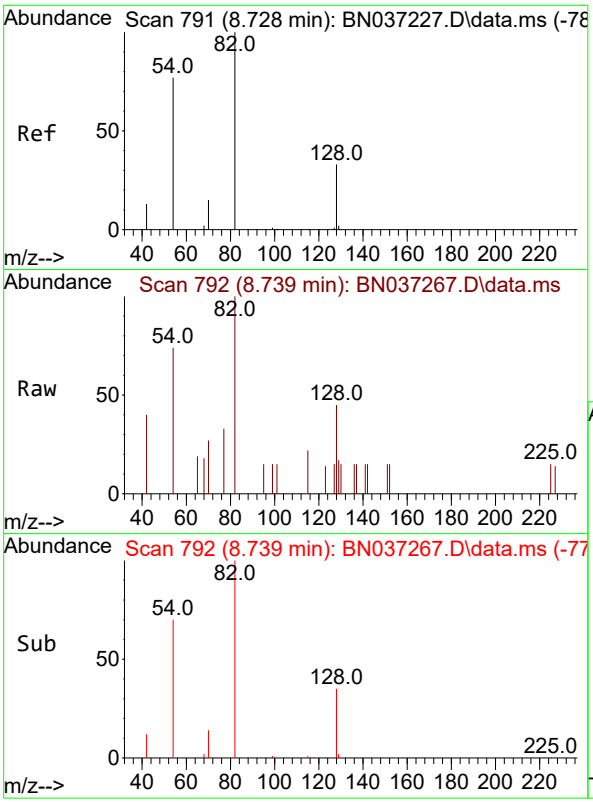


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 943
Delta R.T. -0.011 min
Lab File: BN037267.D
Acq: 14 Jun 2025 18:12

Tgt Ion:136 Resp: 3634

Ion	Ratio	Lower	Upper
136	100		
137	13.9	10.6	15.8
54	16.1	9.2	13.8#
68	8.9	5.4	8.0#



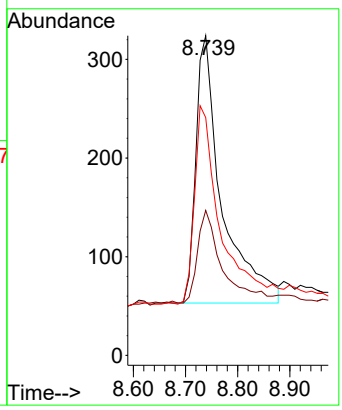


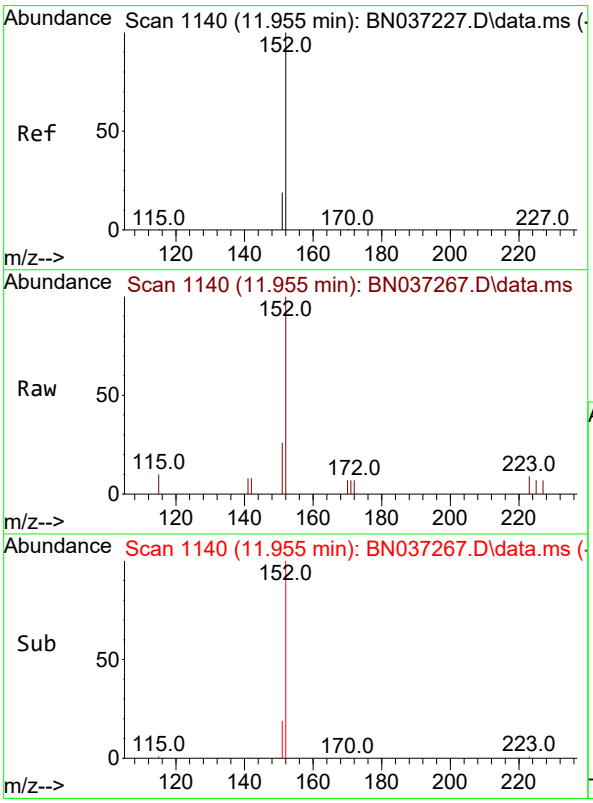
#8
Nitrobenzene-d5
Concen: 0.262 ng
RT: 8.739 min Scan# 7
Delta R.T. 0.011 min
Lab File: BN037267.D
Acq: 14 Jun 2025 18:12

Instrument :
BNA_N
ClientSampleId :
RW11-MW01S-20250611

Tgt Ion: 82 Resp: 940

Ion	Ratio	Lower	Upper
82	100		
128	45.4	31.2	46.8
54	74.4	63.3	94.9

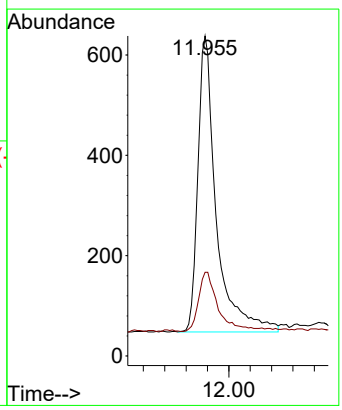


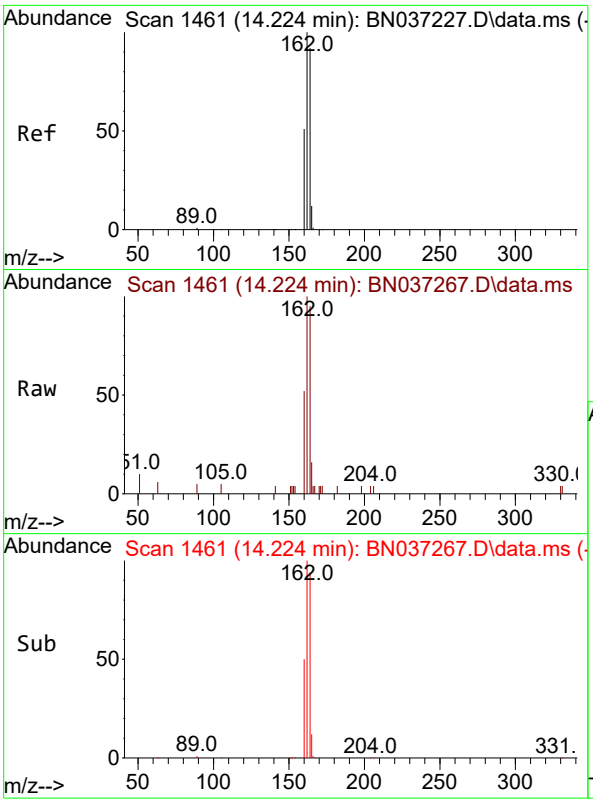


#11
2-Methylnaphthalene-d10
Concen: 0.290 ng
RT: 11.955 min Scan# 1140
Delta R.T. 0.000 min
Lab File: BN037267.D
Acq: 14 Jun 2025 18:12

Tgt Ion:152 Resp: 1415

Ion	Ratio	Lower	Upper
152	100		
151	21.1	17.9	26.9



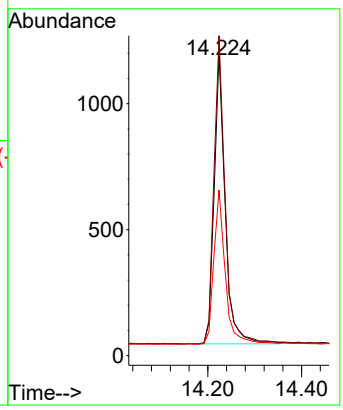


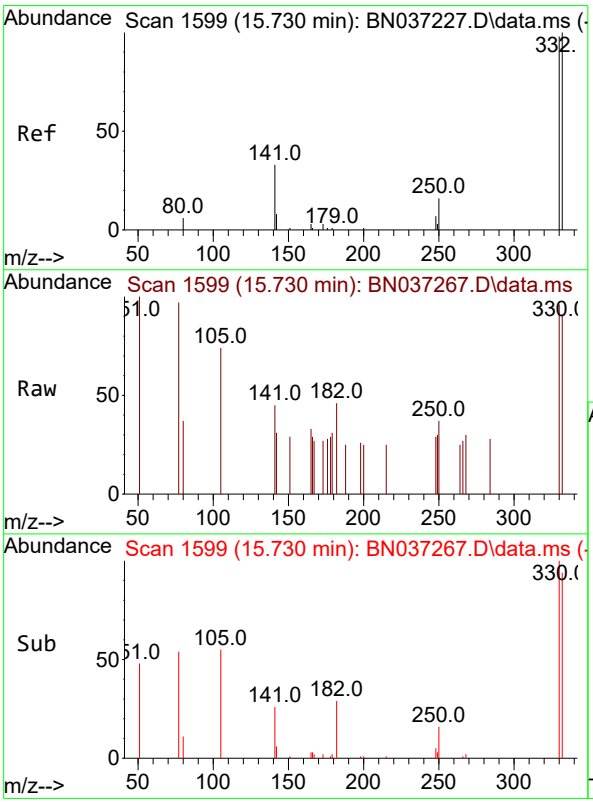
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037267.D
Acq: 14 Jun 2025 18:12

Instrument :
BNA_N
ClientSampleId :
RW11-MW01S-20250611

Tgt Ion:164 Resp: 1888

Ion	Ratio	Lower	Upper
164	100		
162	105.7	86.7	130.1
160	54.7	45.8	68.6

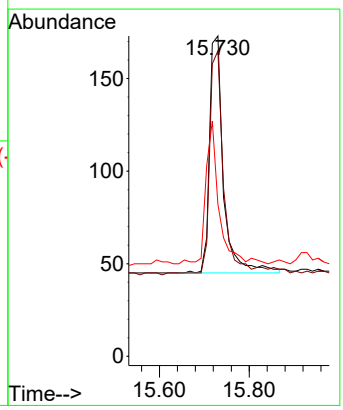


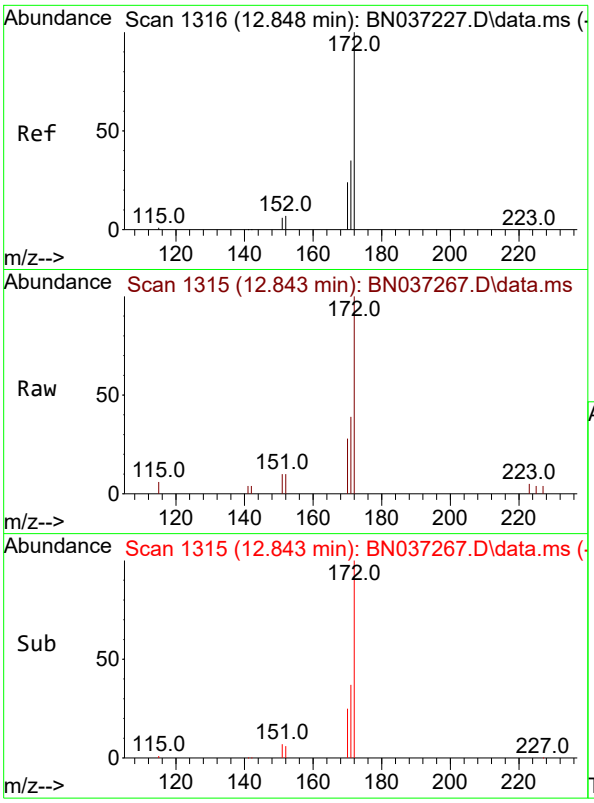


#14
2,4,6-Tribromophenol
Concen: 0.351 ng
RT: 15.730 min Scan# 1599
Delta R.T. 0.000 min
Lab File: BN037267.D
Acq: 14 Jun 2025 18:12

Tgt Ion:330 Resp: 275

Ion	Ratio	Lower	Upper
330	100		
332	90.5	74.9	112.3
141	56.0	45.1	67.7



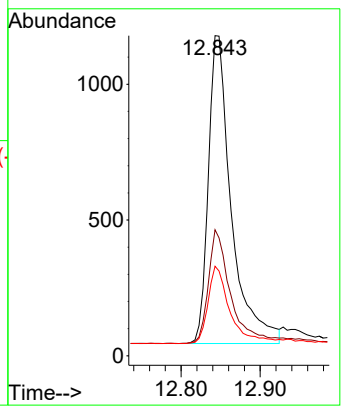


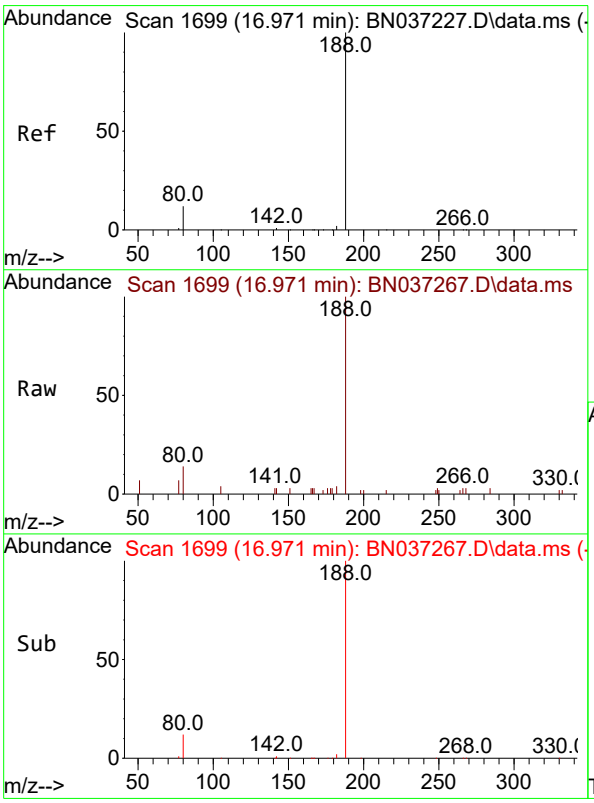
#15
2-Fluorobiphenyl
Concen: 0.290 ng
RT: 12.843 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN037267.D
Acq: 14 Jun 2025 18:12

Instrument :
BNA_N
ClientSampleId :
RW11-MW01S-20250611

Tgt Ion:172 Resp: 2301

Ion	Ratio	Lower	Upper
172	100		
171	39.4	29.8	44.8
170	28.0	21.1	31.7

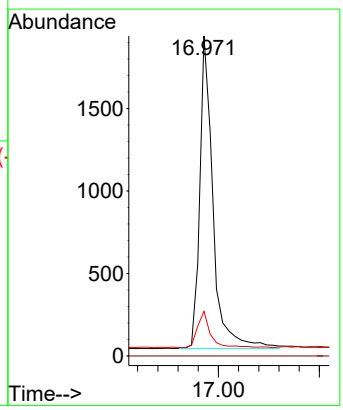


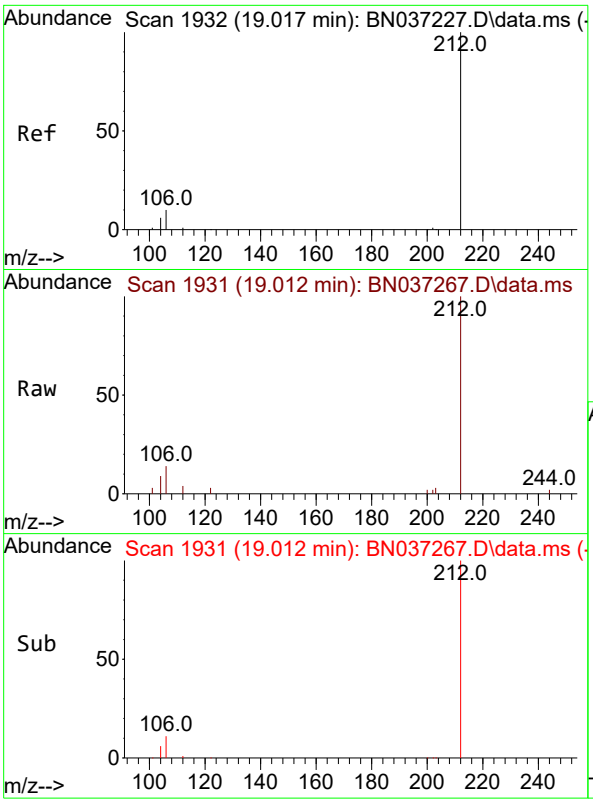


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1699
Delta R.T. 0.000 min
Lab File: BN037267.D
Acq: 14 Jun 2025 18:12

Tgt Ion:188 Resp: 3453

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	14.0	12.2	18.4



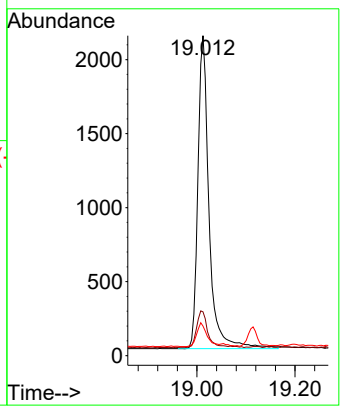


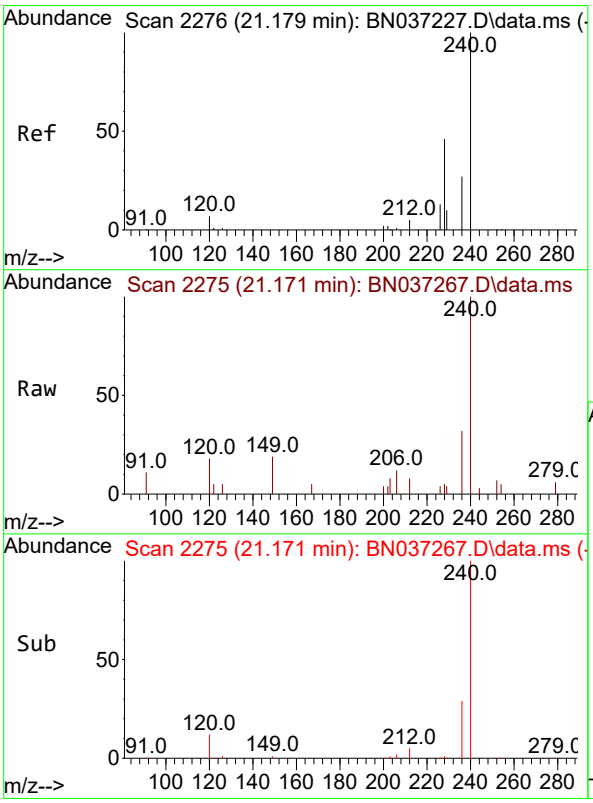
#27
Fluoranthene-d10
Concen: 0.369 ng
RT: 19.012 min Scan# 1
Delta R.T. -0.004 min
Lab File: BN037267.D
Acq: 14 Jun 2025 18:12

Instrument :
BNA_N
ClientSampleId :
RW11-MW01S-20250611

Tgt Ion:212 Resp: 3338

Ion	Ratio	Lower	Upper
212	100		
106	11.6	9.3	13.9
104	7.0	5.7	8.5

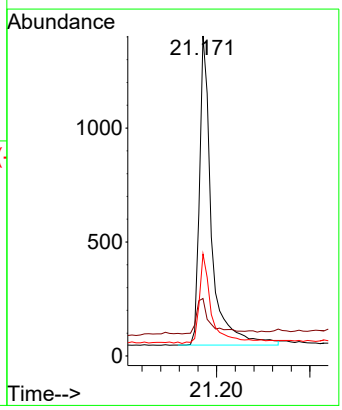


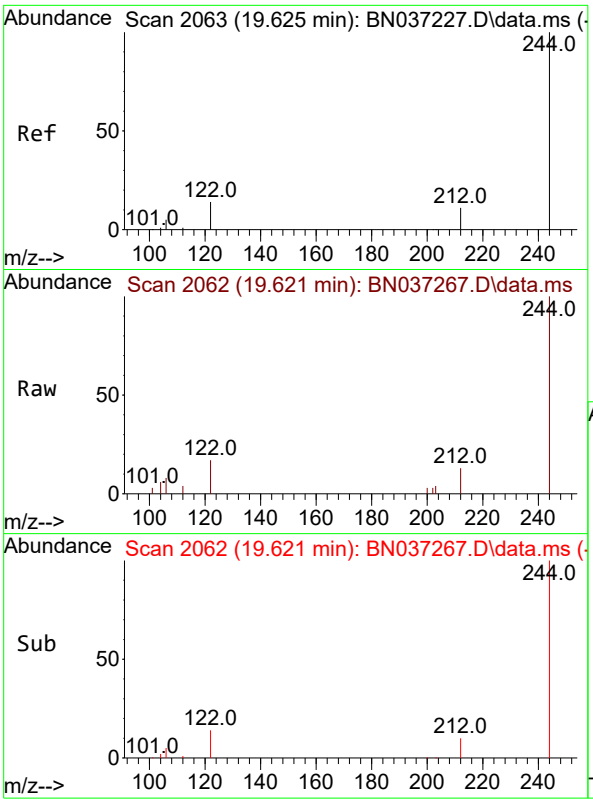


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.171 min Scan# 2275
Delta R.T. -0.009 min
Lab File: BN037267.D
Acq: 14 Jun 2025 18:12

Tgt Ion:240 Resp: 2450

Ion	Ratio	Lower	Upper
240	100		
120	17.9	11.3	16.9#
236	31.8	24.4	36.6



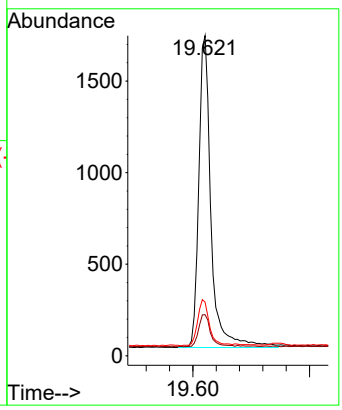


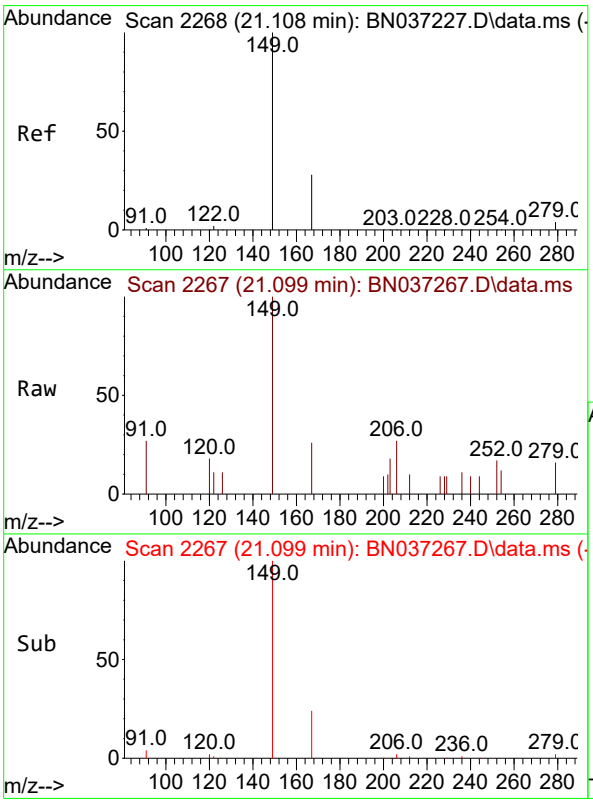
#31
Terphenyl-d14
Concen: 0.450 ng
RT: 19.621 min Scan# 2
Delta R.T. -0.004 min
Lab File: BN037267.D
Acq: 14 Jun 2025 18:12

Instrument :
BNA_N
ClientSampleId :
RW11-MW01S-20250611

Tgt Ion:244 Resp: 2490

Ion	Ratio	Lower	Upper
244	100		
212	12.8	12.2	18.2
122	16.8	14.3	21.5

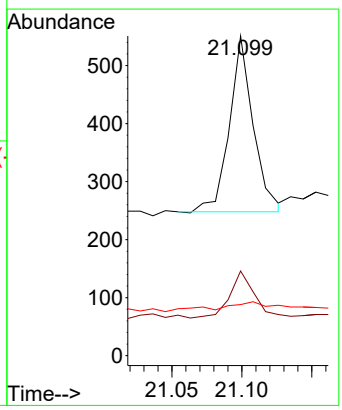


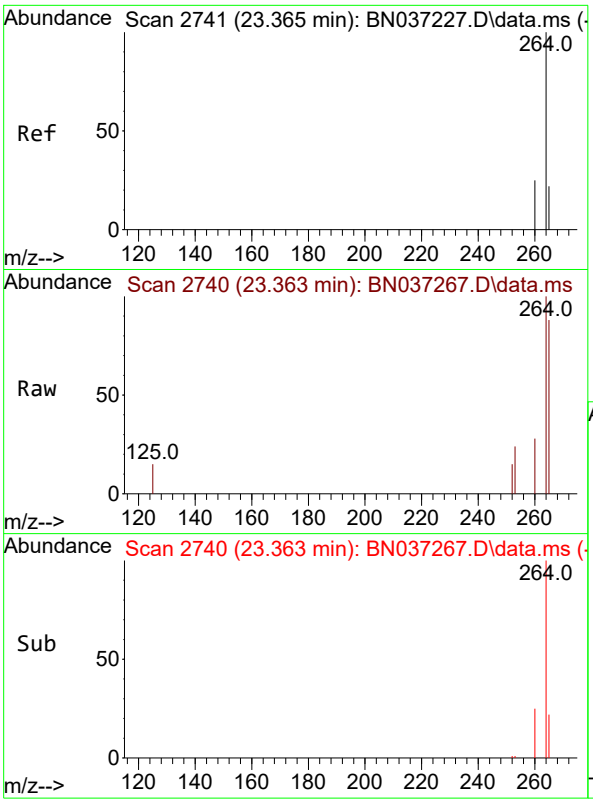


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.058 ng
RT: 21.099 min Scan# 2267
Delta R.T. -0.009 min
Lab File: BN037267.D
Acq: 14 Jun 2025 18:12

Tgt Ion:149 Resp: 357

Ion	Ratio	Lower	Upper
149	100		
167	28.0	21.3	31.9
279	16.5	3.3	4.9#



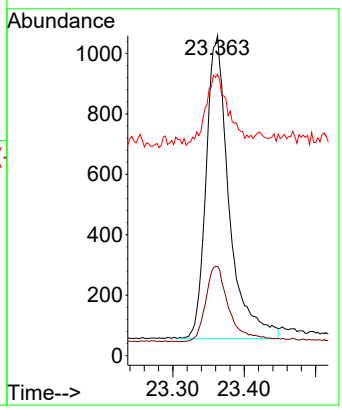


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.363 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN037267.D
Acq: 14 Jun 2025 18:12

Instrument :
BNA_N
ClientSampleId :
RW11-MW01S-20250611

Tgt Ion:264 Resp: 2246

Ion	Ratio	Lower	Upper
264	100		
260	27.9	22.8	34.2
265	88.0	66.4	99.6



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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/11/25
Client Sample ID:	RE134D1-20250611	SDG No.:	Q2299
Lab Sample ID:	Q2299-21	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	960 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037268.D	1	06/13/25 08:03	06/14/25 18:48	PB168458

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.91		0.070	0.21	0.21	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.30		30 - 150		75%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.40		30 - 150		100%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.28		55 - 111		69%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.31		53 - 106		78%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.46		58 - 132		116%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1240	7.575				
1146-65-2	Naphthalene-d8	3140	10.351				
15067-26-2	Acenaphthene-d10	1630	14.224				
1517-22-2	Phenanthrene-d10	2960	16.971				
1719-03-5	Chrysene-d12	2280	21.171				
1520-96-3	Perylene-d12	2150	23.357				

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_N\Data\BN061325\
Data File : BN037268.D
Acq On : 14 Jun 2025 18:48
Operator : RC/JU
Sample : Q2299-21
Misc :
ALS Vial : 47 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE134D1-20250611

Quant Time: Jun 16 02:44:31 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration

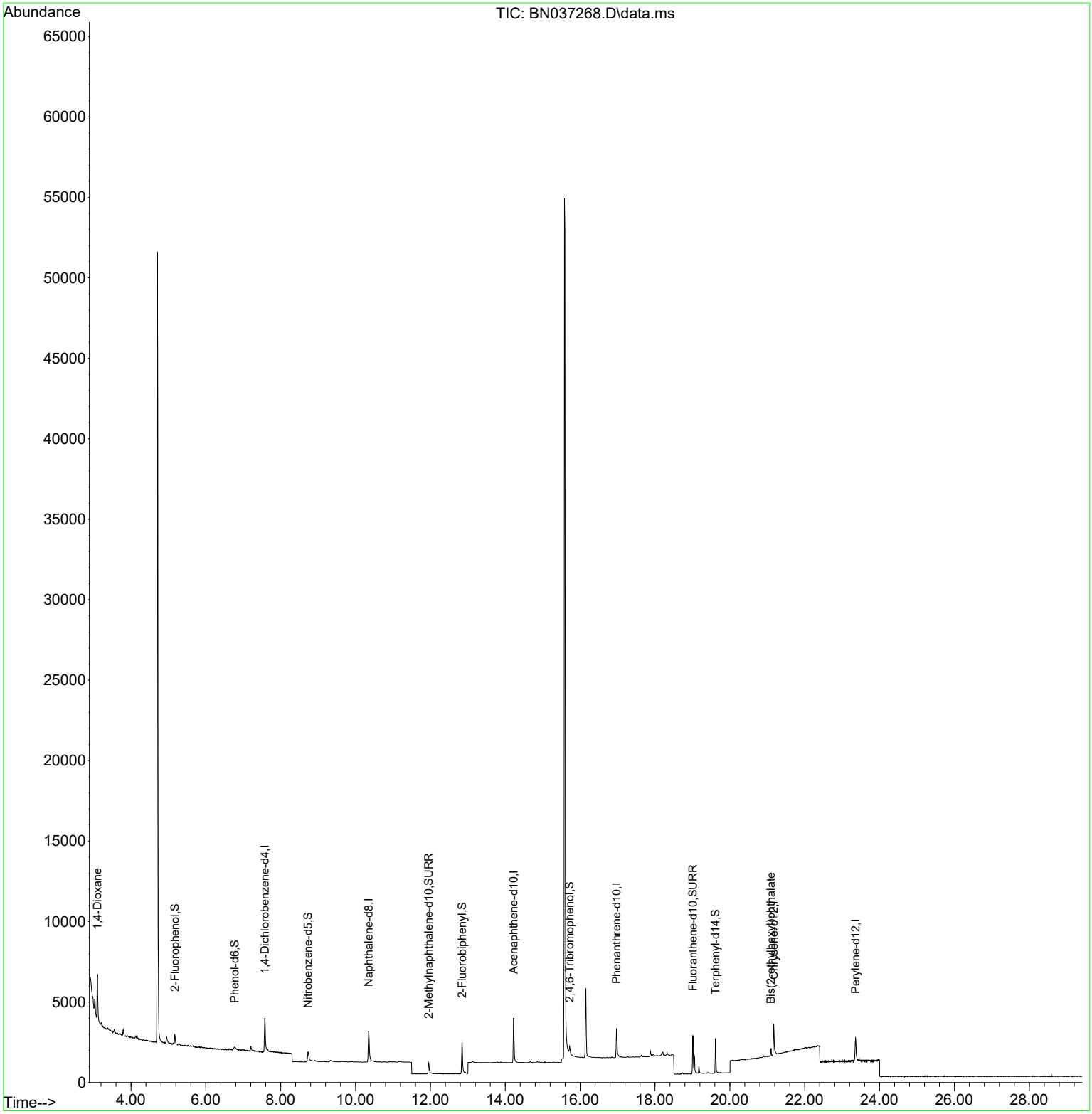
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	1239	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	3144	0.400	ng	#-0.01
13) Acenaphthene-d10	14.224	164	1632	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	2957	0.400	ng	0.00
29) Chrysene-d12	21.171	240	2278	0.400	ng	0.00
35) Perylene-d12	23.357	264	2145	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	443	0.146	ng	0.00
5) Phenol-d6	6.773	99	260	0.081	ng	0.01
8) Nitrobenzene-d5	8.728	82	858	0.276	ng	0.00
11) 2-Methylnaphthalene-d10	11.955	152	1270	0.301	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	251	0.370	ng	-0.01
15) 2-Fluorobiphenyl	12.848	172	2150	0.313	ng	0.00
27) Fluoranthene-d10	19.012	212	3076	0.398	ng	0.00
31) Terphenyl-d14	19.616	244	2383	0.463	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.104	88	1485	0.874	ng	# 85
34) Bis(2-ethylhexyl)phtha...	21.099	149	472	0.082	ng	95

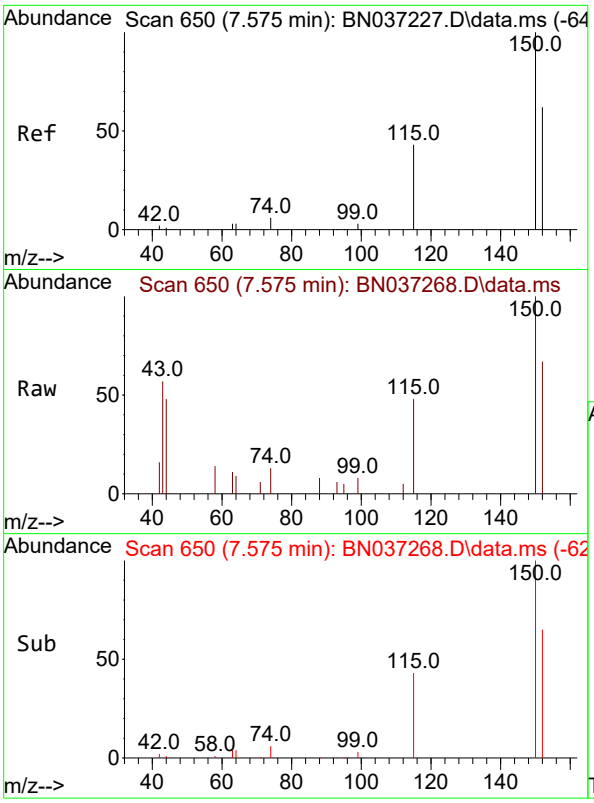
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037268.D
Acq On : 14 Jun 2025 18:48
Operator : RC/JU
Sample : Q2299-21
Misc :
ALS Vial : 47 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE134D1-20250611

Quant Time: Jun 16 02:44:31 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration



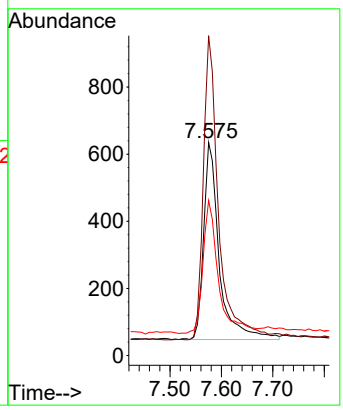


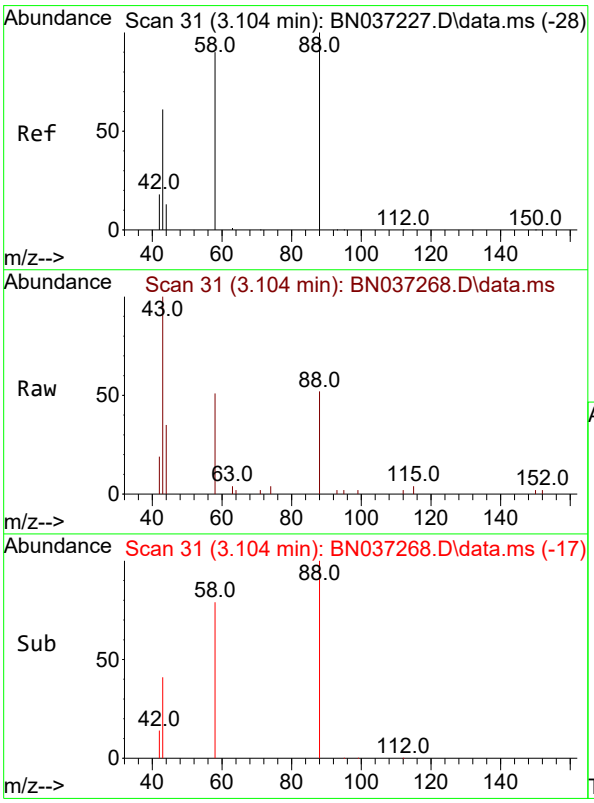
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN037268.D
Acq: 14 Jun 2025 18:48

Instrument :
BNA_N
ClientSampleId :
RE134D1-20250611

Tgt Ion:152 Resp: 1239

Ion	Ratio	Lower	Upper
152	100		
150	150.1	125.2	187.8
115	72.8	58.4	87.6

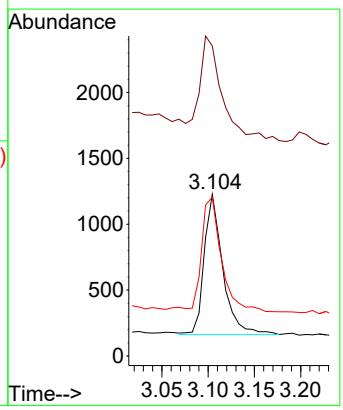


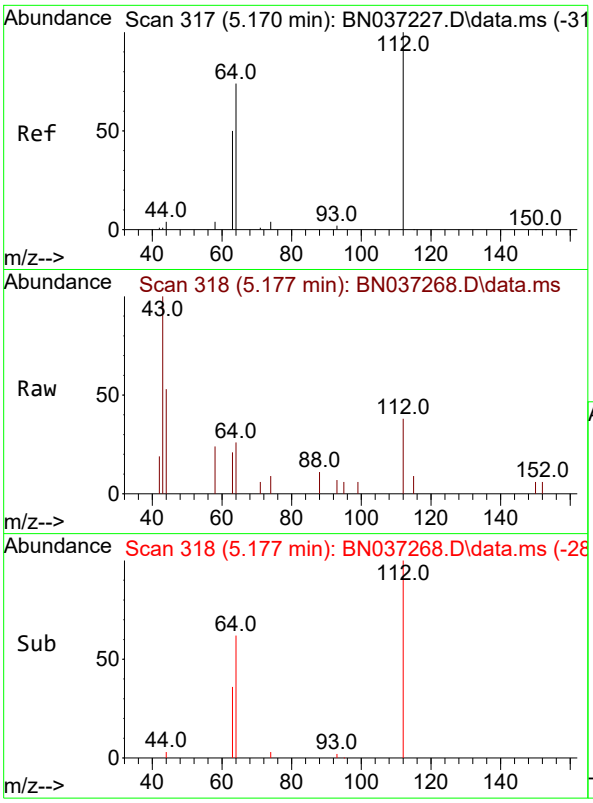


#2
1,4-Dioxane
Concen: 0.874 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037268.D
Acq: 14 Jun 2025 18:48

Tgt Ion: 88 Resp: 1485

Ion	Ratio	Lower	Upper
88	100		
43	91.7	52.6	79.0#
58	89.6	73.5	110.3



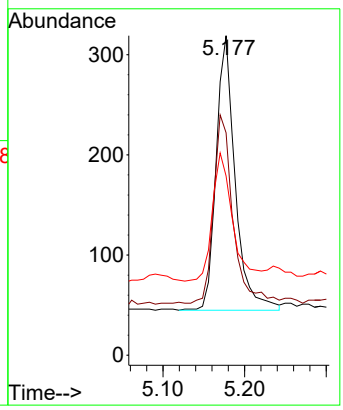


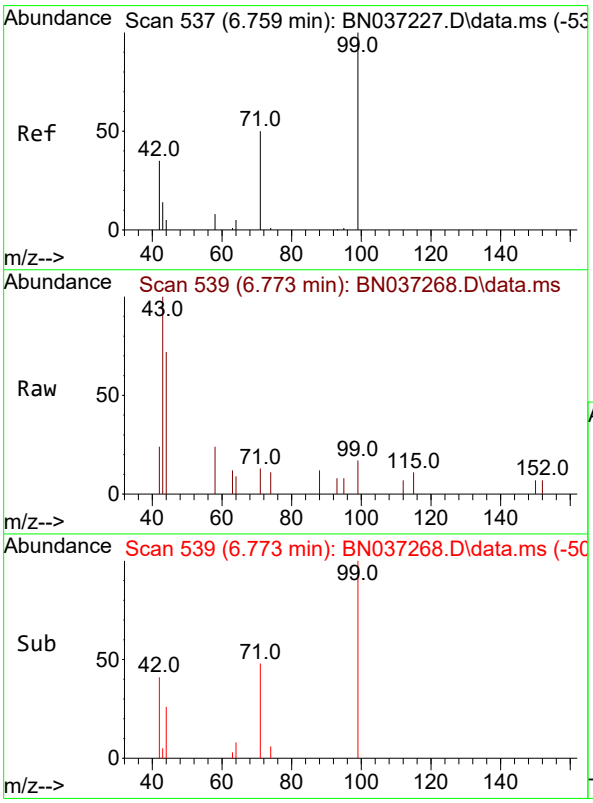
#4
2-Fluorophenol
Concen: 0.146 ng
RT: 5.177 min Scan# 3
Delta R.T. 0.007 min
Lab File: BN037268.D
Acq: 14 Jun 2025 18:48

Instrument :
BNA_N
ClientSampleId :
RE134D1-20250611

Tgt Ion:112 Resp: 443

Ion	Ratio	Lower	Upper
112	100		
64	70.9	57.2	85.8
63	49.9	39.8	59.6

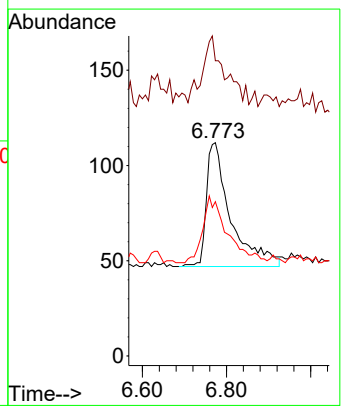


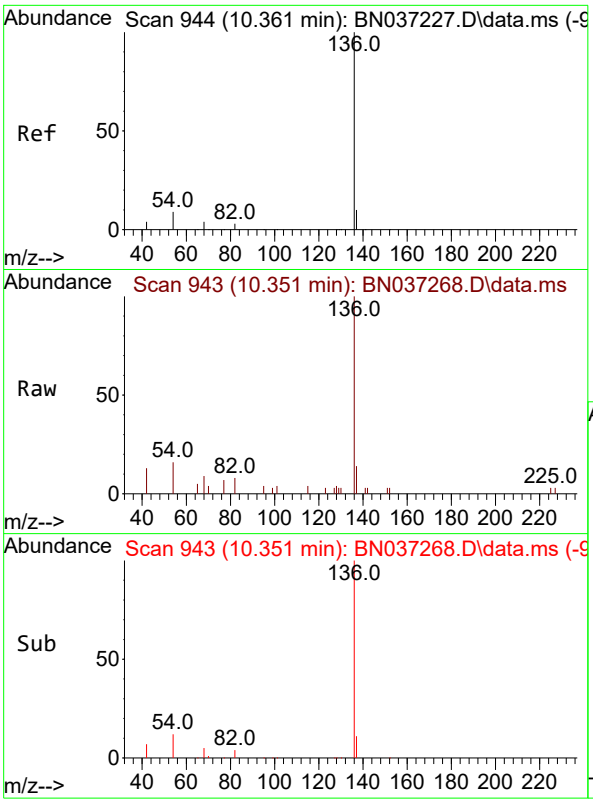


#5
Phenol-d6
Concen: 0.081 ng
RT: 6.773 min Scan# 539
Delta R.T. 0.015 min
Lab File: BN037268.D
Acq: 14 Jun 2025 18:48

Tgt Ion: 99 Resp: 260

Ion	Ratio	Lower	Upper
99	100		
42	55.4	36.2	54.4#
71	54.2	42.4	63.6



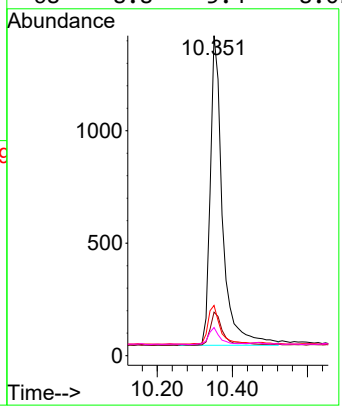


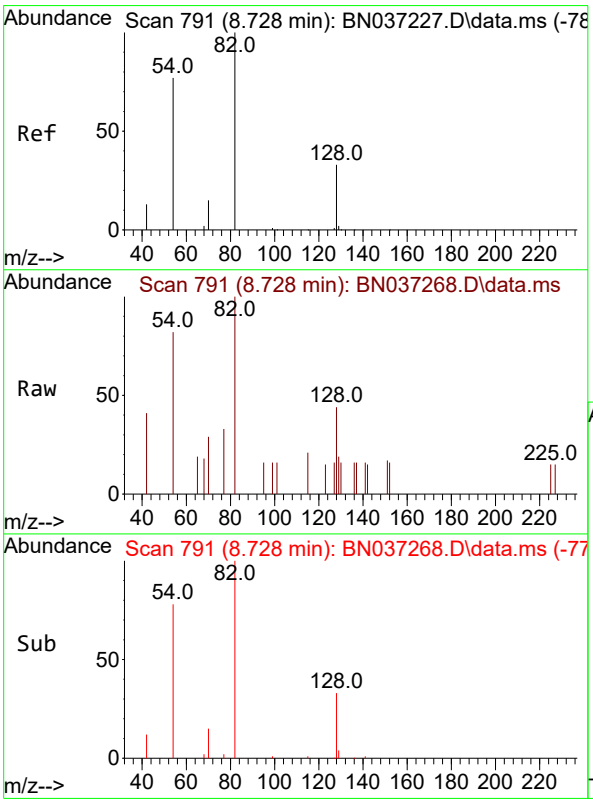
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 94
Delta R.T. -0.010 min
Lab File: BN037268.D
Acq: 14 Jun 2025 18:48

Instrument :
BNA_N
ClientSampleId :
RE134D1-20250611

Tgt Ion:136 Resp: 3144

Ion	Ratio	Lower	Upper
136	100		
137	13.6	10.6	15.8
54	15.7	9.2	13.8#
68	8.8	5.4	8.0#

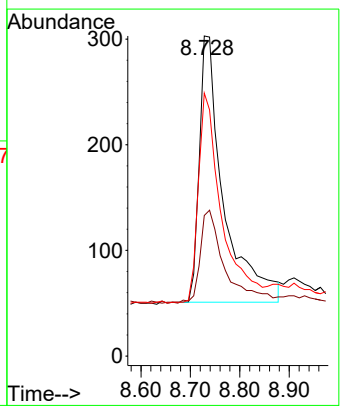


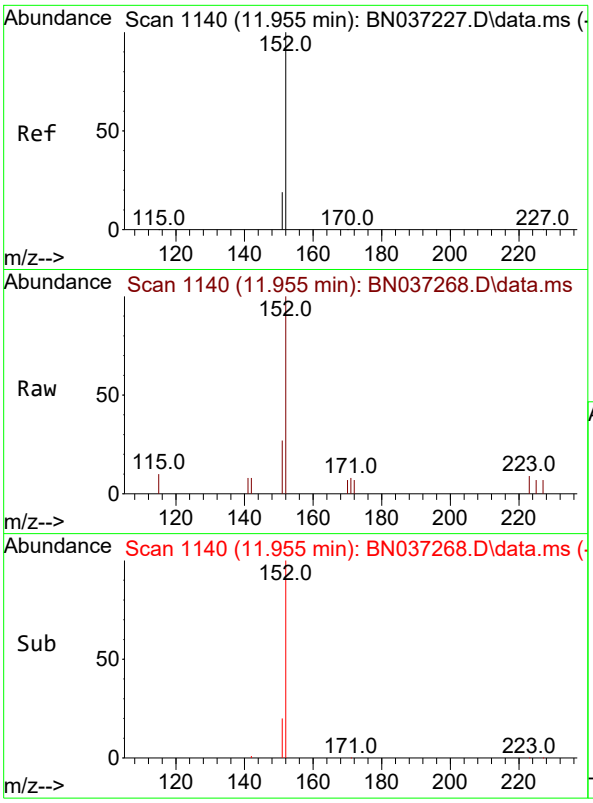


#8
Nitrobenzene-d5
Concen: 0.276 ng
RT: 8.728 min Scan# 791
Delta R.T. 0.000 min
Lab File: BN037268.D
Acq: 14 Jun 2025 18:48

Tgt Ion: 82 Resp: 858

Ion	Ratio	Lower	Upper
82	100		
128	43.9	31.2	46.8
54	82.2	63.3	94.9



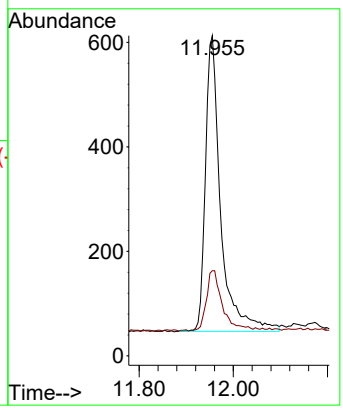


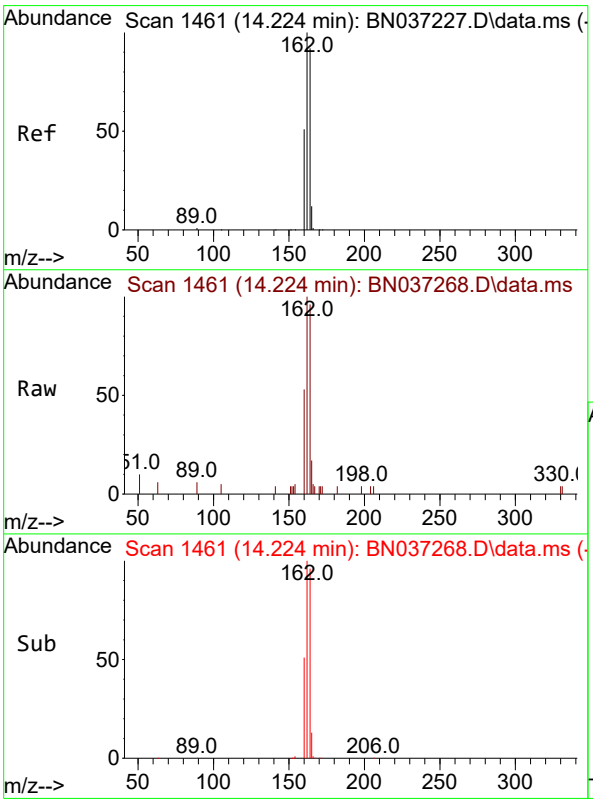
#11
2-Methylnaphthalene-d10
Concen: 0.301 ng
RT: 11.955 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN037268.D
Acq: 14 Jun 2025 18:48

Instrument :
BNA_N
ClientSampleId :
RE134D1-20250611

Tgt Ion:152 Resp: 1270

Ion	Ratio	Lower	Upper
152	100		
151	21.2	17.9	26.9

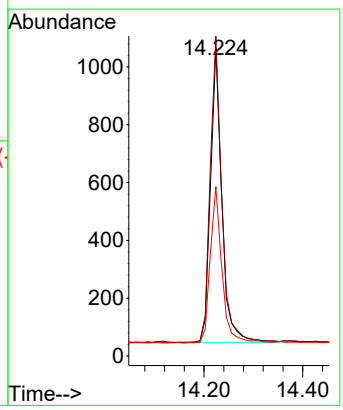


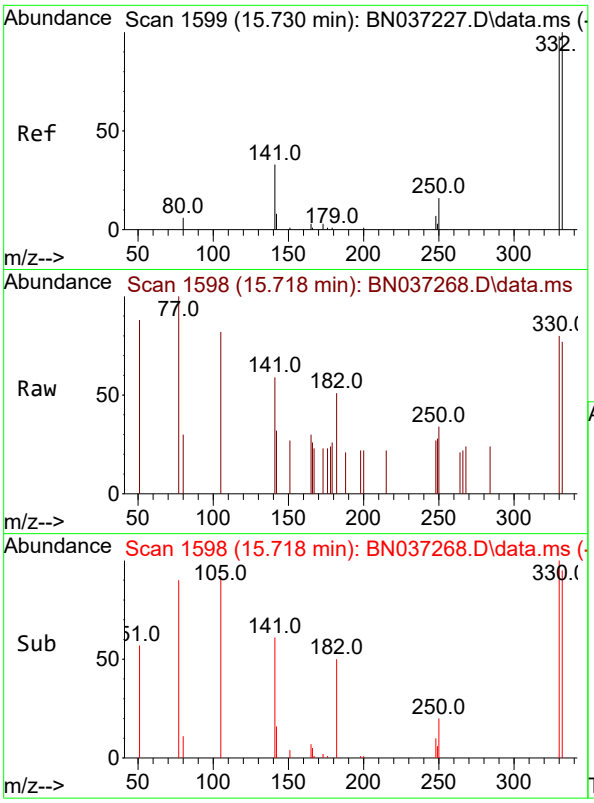


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BN037268.D
Acq: 14 Jun 2025 18:48

Tgt Ion:164 Resp: 1632

Ion	Ratio	Lower	Upper
164	100		
162	104.0	86.7	130.1
160	55.1	45.8	68.6



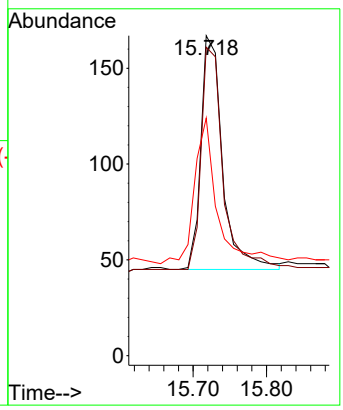


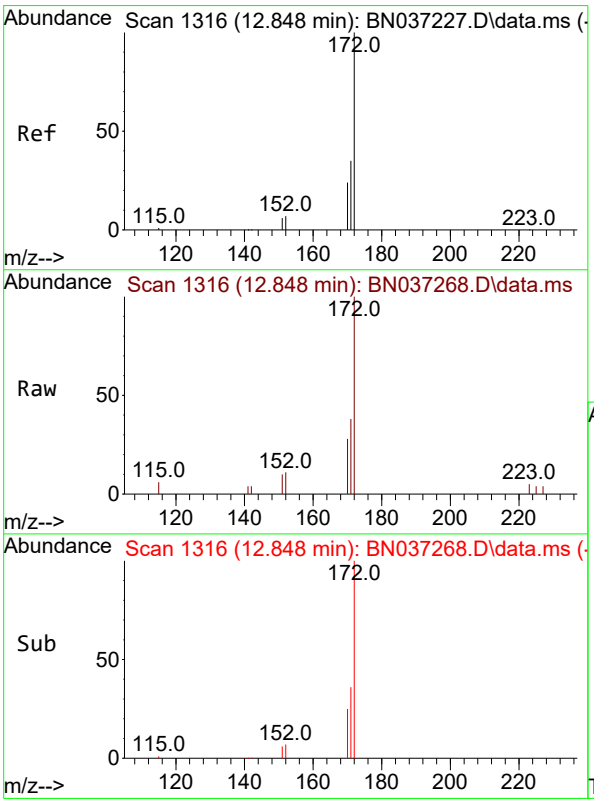
#14
2,4,6-Tribromophenol
Concen: 0.370 ng
RT: 15.718 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037268.D
Acq: 14 Jun 2025 18:48

Instrument :
BNA_N
ClientSampleId :
RE134D1-20250611

Tgt Ion:330 Resp: 251

Ion	Ratio	Lower	Upper
330	100		
332	97.2	74.9	112.3
141	66.1	45.1	67.7

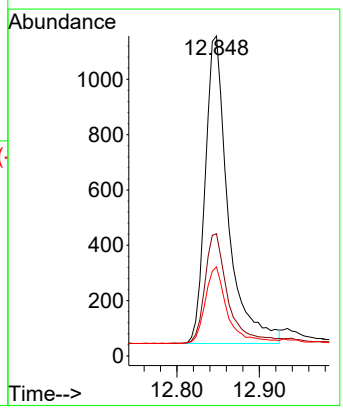


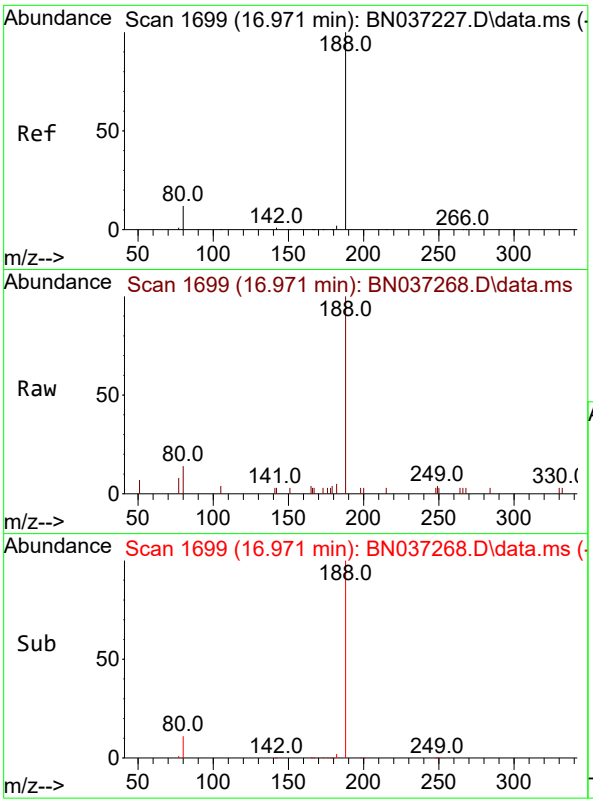


#15
2-Fluorobiphenyl
Concen: 0.313 ng
RT: 12.848 min Scan# 1316
Delta R.T. 0.000 min
Lab File: BN037268.D
Acq: 14 Jun 2025 18:48

Tgt Ion:172 Resp: 2150

Ion	Ratio	Lower	Upper
172	100		
171	38.2	29.8	44.8
170	27.8	21.1	31.7



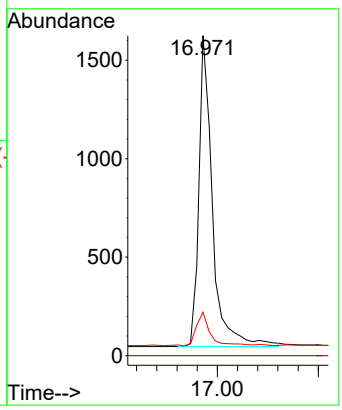


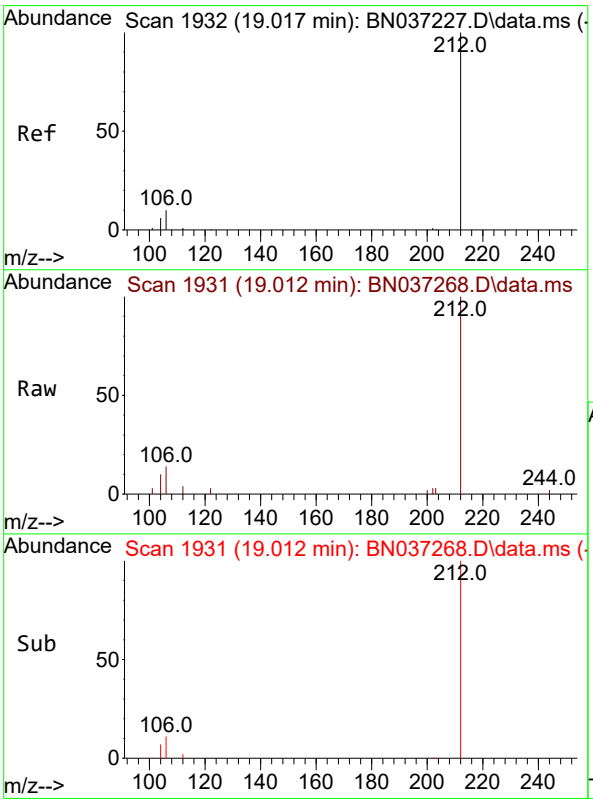
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037268.D
Acq: 14 Jun 2025 18:48

Instrument :
BNA_N
ClientSampleId :
RE134D1-20250611

Tgt Ion:188 Resp: 2957

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	13.5	12.2	18.4

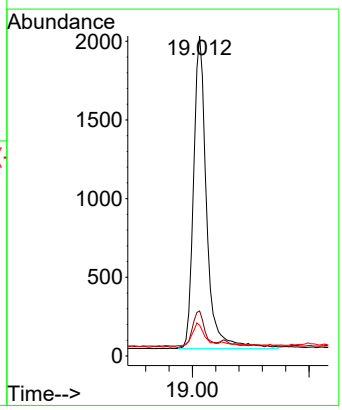


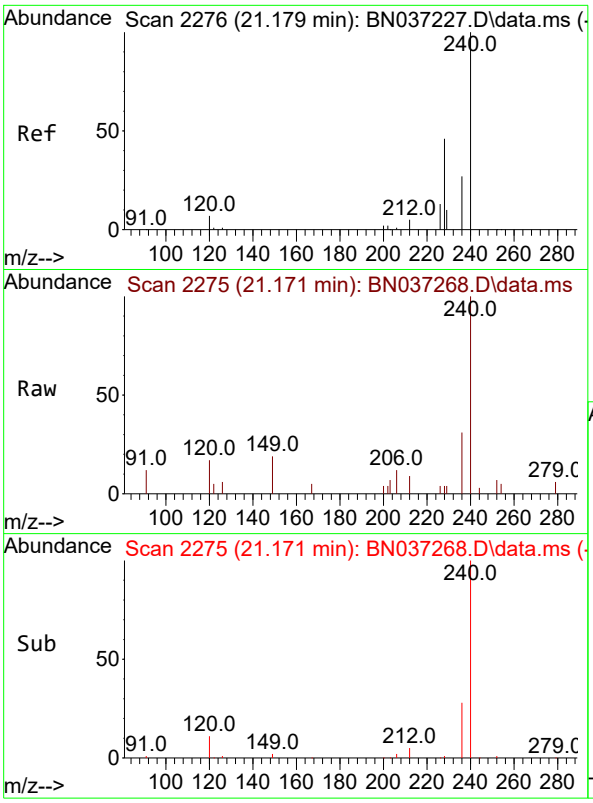


#27
Fluoranthene-d10
Concen: 0.398 ng
RT: 19.012 min Scan# 1931
Delta R.T. -0.004 min
Lab File: BN037268.D
Acq: 14 Jun 2025 18:48

Tgt Ion:212 Resp: 3076

Ion	Ratio	Lower	Upper
212	100		
106	11.3	9.3	13.9
104	6.8	5.7	8.5



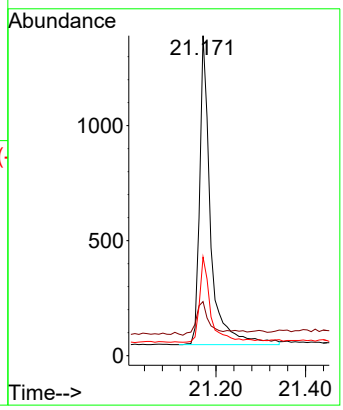


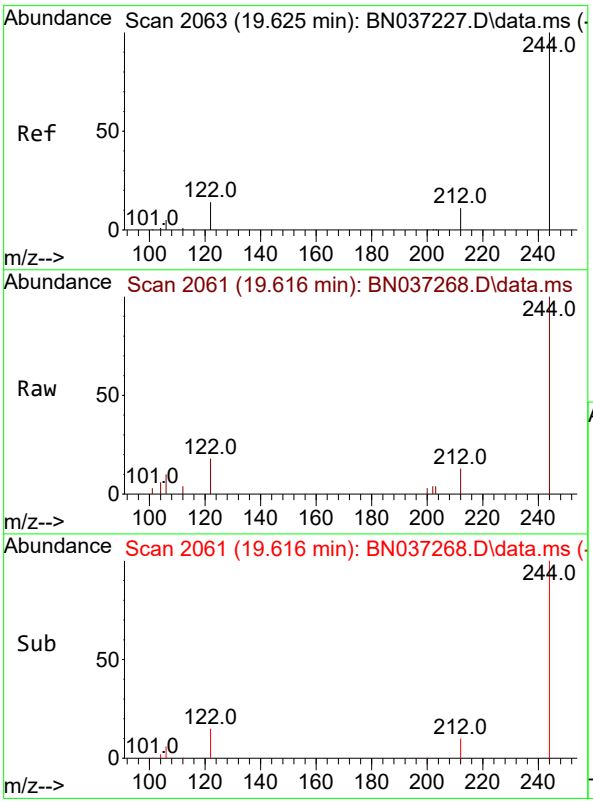
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.171 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037268.D
Acq: 14 Jun 2025 18:48

Instrument :
BNA_N
ClientSampleId :
RE134D1-20250611

Tgt Ion:240 Resp: 2278

Ion	Ratio	Lower	Upper
240	100		
120	16.9	11.3	16.9
236	30.8	24.4	36.6

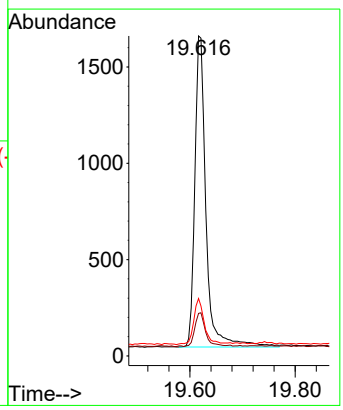


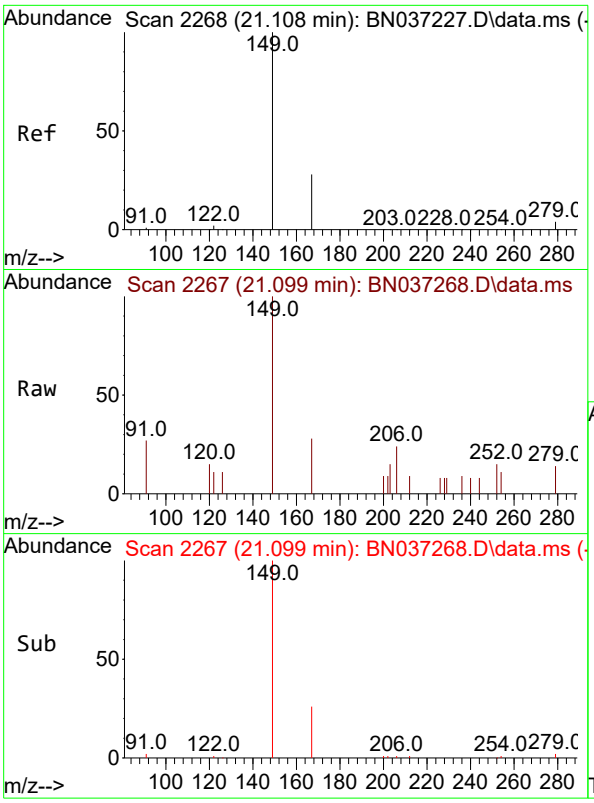


#31
Terphenyl-d14
Concen: 0.463 ng
RT: 19.616 min Scan# 2061
Delta R.T. -0.009 min
Lab File: BN037268.D
Acq: 14 Jun 2025 18:48

Tgt Ion:244 Resp: 2383

Ion	Ratio	Lower	Upper
244	100		
212	13.3	12.2	18.2
122	17.9	14.3	21.5



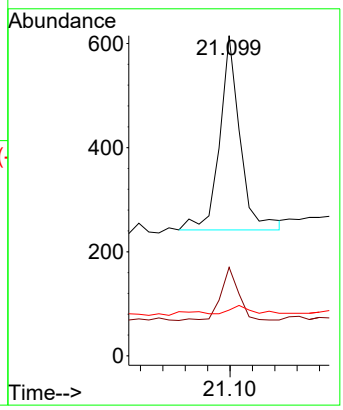


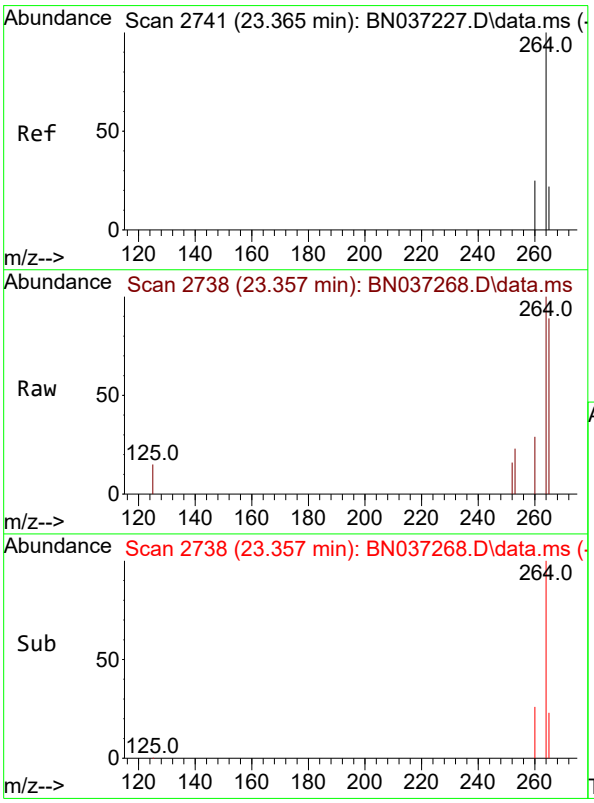
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.082 ng
RT: 21.099 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037268.D
Acq: 14 Jun 2025 18:48

Instrument :
BNA_N
ClientSampleId :
RE134D1-20250611

Tgt Ion:149 Resp: 472

Ion	Ratio	Lower	Upper
149	100		
167	23.9	21.3	31.9
279	4.7	3.3	4.9

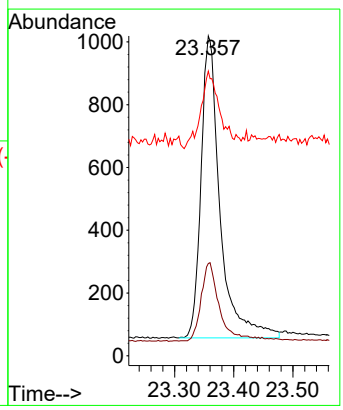




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.357 min Scan# 2738
Delta R.T. -0.009 min
Lab File: BN037268.D
Acq: 14 Jun 2025 18:48

Tgt Ion:264 Resp: 2145

Ion	Ratio	Lower	Upper
264	100		
260	28.9	22.8	34.2
265	89.0	66.4	99.6



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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/11/25
Client Sample ID:	TT190D2-20250611	SDG No.:	Q2299
Lab Sample ID:	Q2299-22	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037269.D	1	06/13/25 08:03	06/14/25 19:24	PB168458

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	1.30		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.29		30 - 150		72%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.40		30 - 150		100%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.24		55 - 111		60%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.28		53 - 106		71%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.50		58 - 132		125%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1250	7.575				
1146-65-2	Naphthalene-d8	3040	10.351				
15067-26-2	Acenaphthene-d10	1620	14.224				
1517-22-2	Phenanthrene-d10	2850	16.971				
1719-03-5	Chrysene-d12	2130	21.171				
1520-96-3	Perylene-d12	2000	23.36				

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_N\Data\BN061325\
Data File : BN037269.D
Acq On : 14 Jun 2025 19:24
Operator : RC/JU
Sample : Q2299-22
Misc :
ALS Vial : 48 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT190D2-20250611

Quant Time: Jun 16 02:44:43 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration

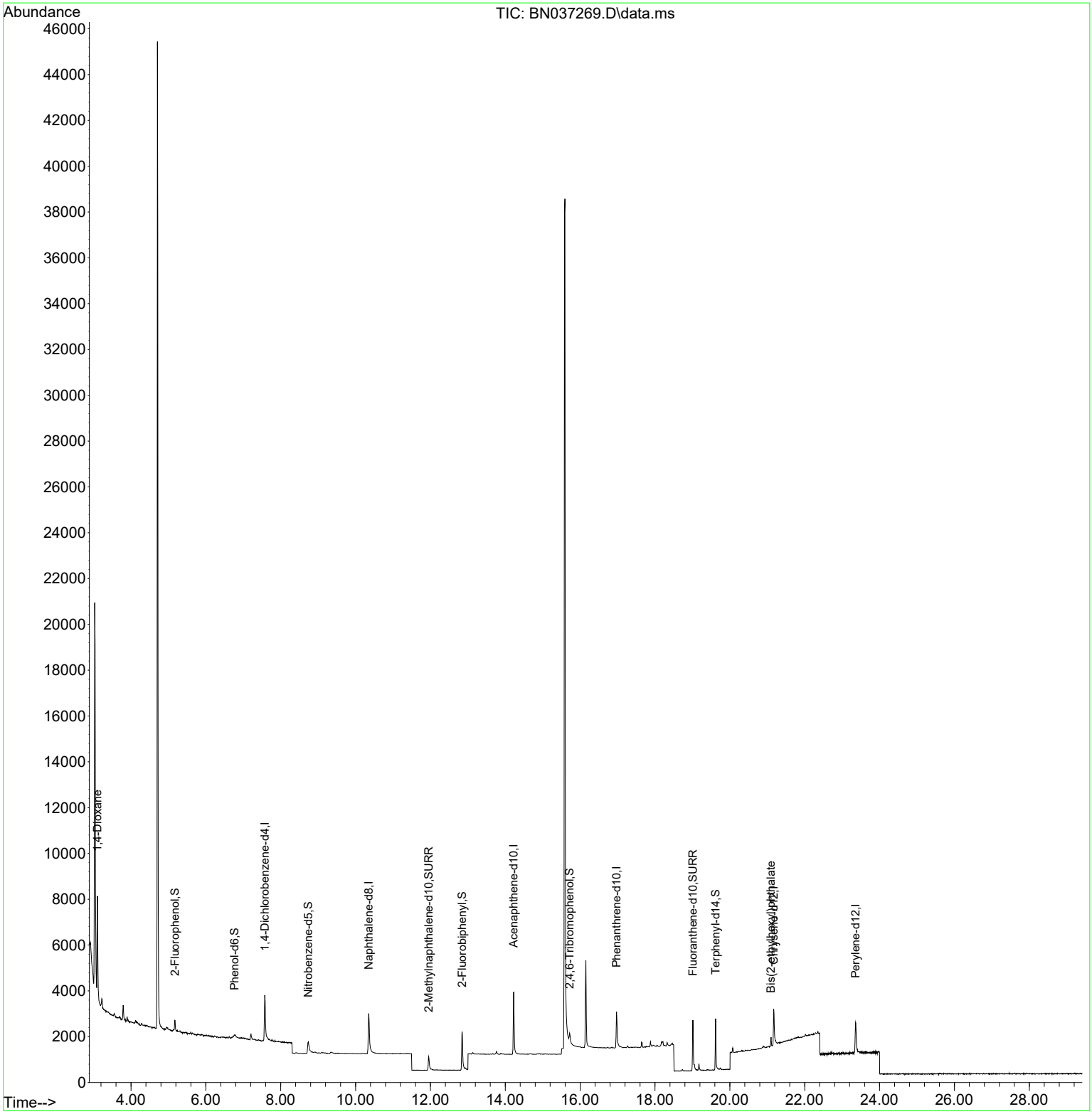
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	1248	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	3038	0.400	ng	#-0.01
13) Acenaphthene-d10	14.224	164	1624	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	2851	0.400	ng	0.00
29) Chrysene-d12	21.171	240	2132	0.400	ng	# 0.00
35) Perylene-d12	23.360	264	1996	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	364	0.119	ng	0.00
5) Phenol-d6	6.766	99	194	0.060	ng	0.00
8) Nitrobenzene-d5	8.739	82	726	0.242	ng	0.01
11) 2-Methylnaphthalene-d10	11.955	152	1172	0.287	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	228	0.338	ng	-0.01
15) 2-Fluorobiphenyl	12.848	172	1938	0.284	ng	0.00
27) Fluoranthene-d10	19.012	212	2983	0.400	ng	0.00
31) Terphenyl-d14	19.621	244	2407	0.499	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.104	88	2294	1.340	ng	92
34) Bis(2-ethylhexyl)phtha...	21.099	149	402	0.075	ng	# 97

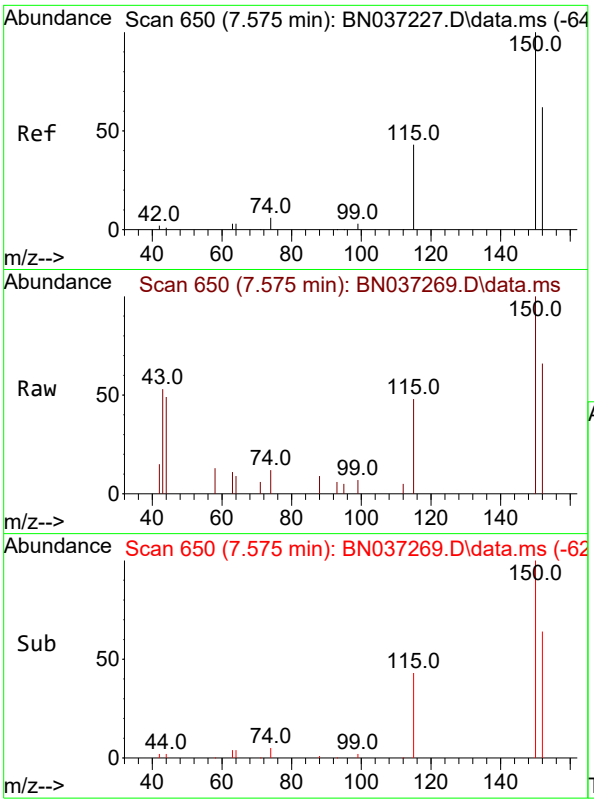
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037269.D
Acq On : 14 Jun 2025 19:24
Operator : RC/JU
Sample : Q2299-22
Misc :
ALS Vial : 48 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT190D2-20250611

Quant Time: Jun 16 02:44:43 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration



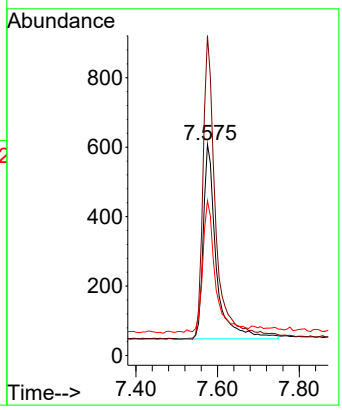


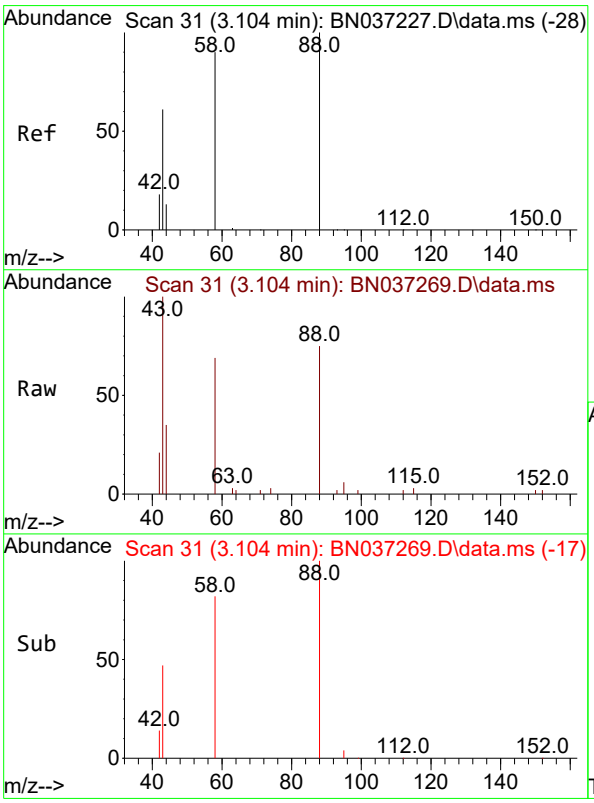
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN037269.D
Acq: 14 Jun 2025 19:24

Instrument :
BNA_N
ClientSampleId :
TT190D2-20250611

Tgt Ion:152 Resp: 1248

Ion	Ratio	Lower	Upper
152	100		
150	151.5	125.2	187.8
115	73.4	58.4	87.6

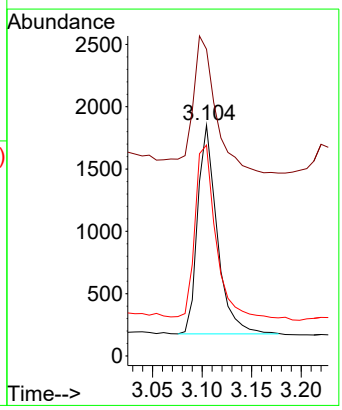


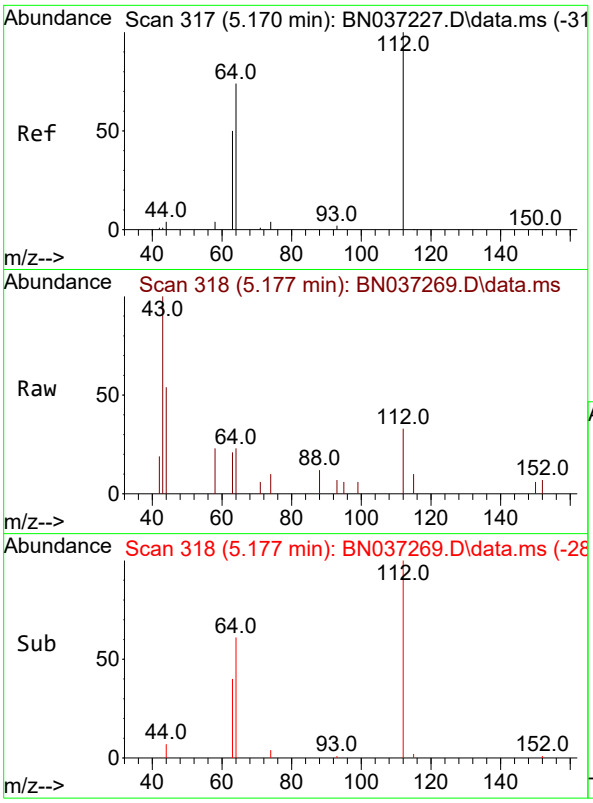


#2
1,4-Dioxane
Concen: 1.340 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037269.D
Acq: 14 Jun 2025 19:24

Tgt Ion: 88 Resp: 2294

Ion	Ratio	Lower	Upper
88	100		
43	75.5	52.6	79.0
58	87.8	73.5	110.3



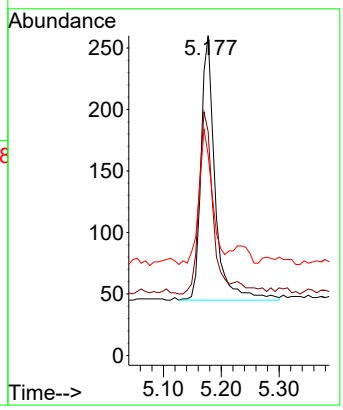


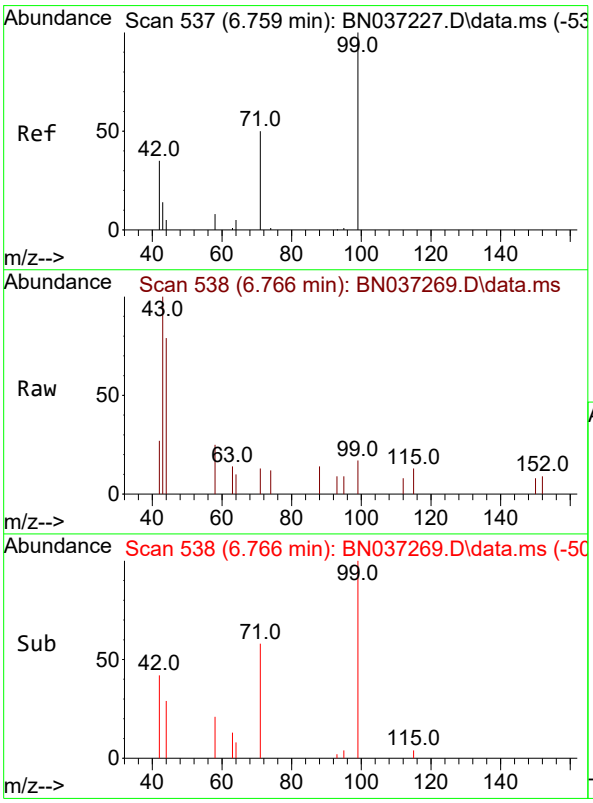
#4
2-Fluorophenol
Concen: 0.119 ng
RT: 5.177 min Scan# 31
Delta R.T. 0.007 min
Lab File: BN037269.D
Acq: 14 Jun 2025 19:24

Instrument :
BNA_N
ClientSampleId :
TT190D2-20250611

Tgt Ion:112 Resp: 364

Ion	Ratio	Lower	Upper
112	100		
64	73.1	57.2	85.8
63	47.8	39.8	59.6

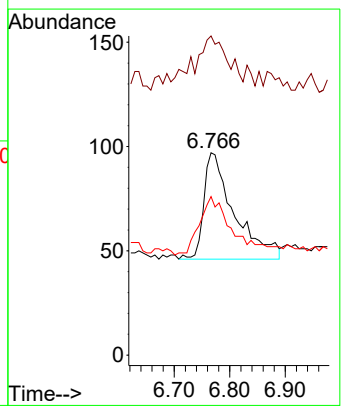


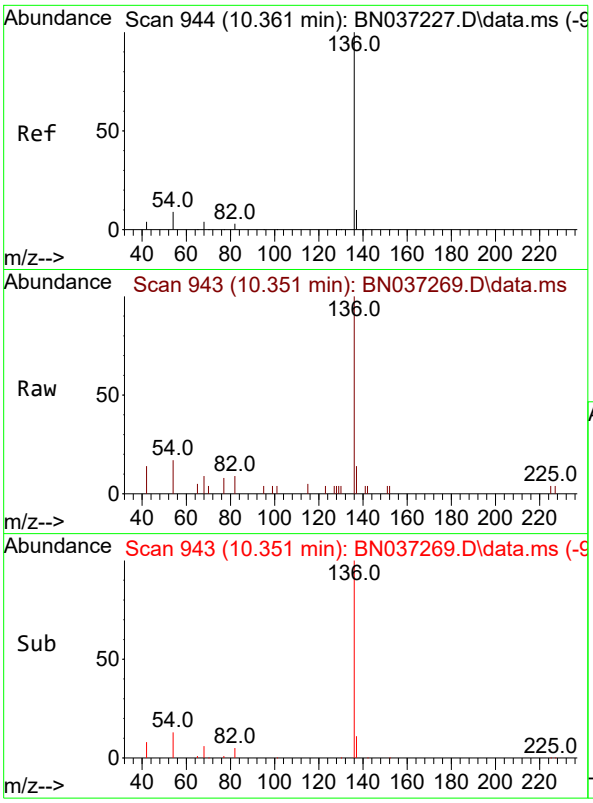


#5
Phenol-d6
Concen: 0.060 ng
RT: 6.766 min Scan# 538
Delta R.T. 0.007 min
Lab File: BN037269.D
Acq: 14 Jun 2025 19:24

Tgt Ion: 99 Resp: 194

Ion	Ratio	Lower	Upper
99	100		
42	45.4	36.2	54.4
71	55.2	42.4	63.6



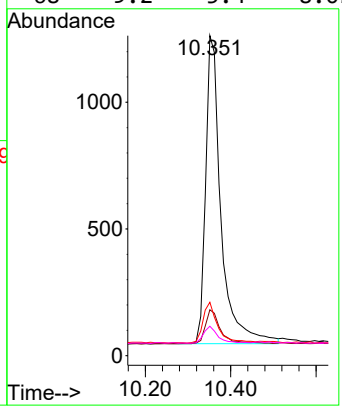


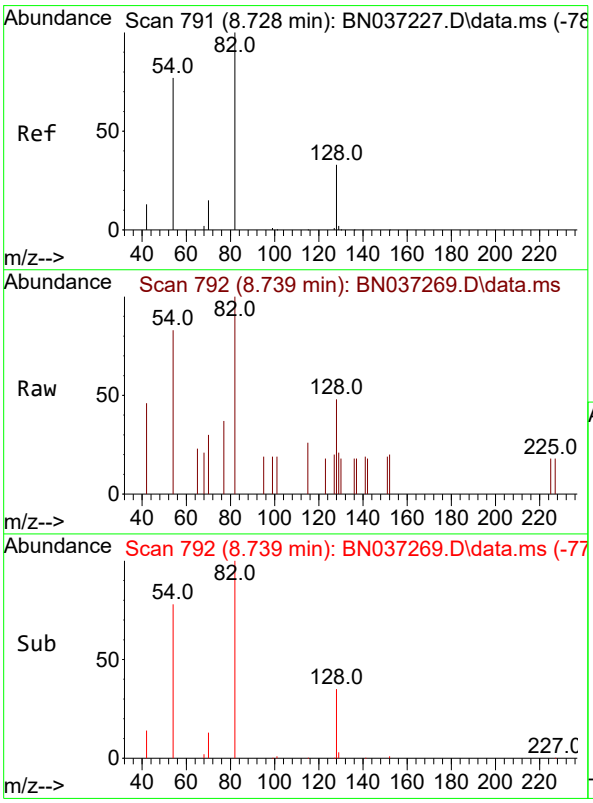
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 94
Delta R.T. -0.010 min
Lab File: BN037269.D
Acq: 14 Jun 2025 19:24

Instrument :
BNA_N
ClientSampleId :
TT190D2-20250611

Tgt Ion:136 Resp: 3038

Ion	Ratio	Lower	Upper
136	100		
137	14.3	10.6	15.8
54	16.7	9.2	13.8#
68	9.2	5.4	8.0#

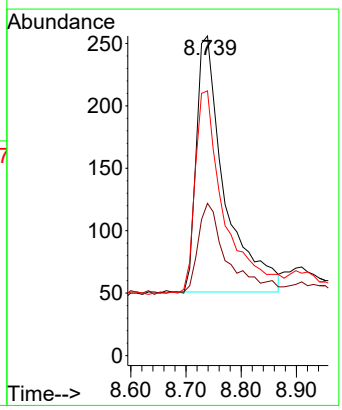


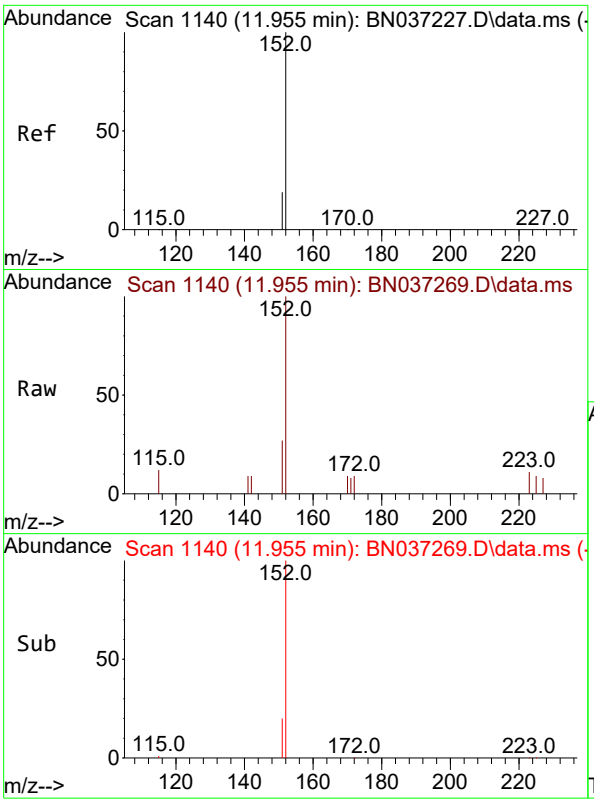


#8
Nitrobenzene-d5
Concen: 0.242 ng
RT: 8.739 min Scan# 792
Delta R.T. 0.011 min
Lab File: BN037269.D
Acq: 14 Jun 2025 19:24

Tgt Ion: 82 Resp: 726

Ion	Ratio	Lower	Upper
82	100		
128	47.7	31.2	46.8#
54	82.8	63.3	94.9



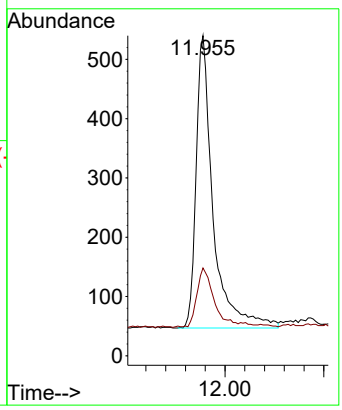


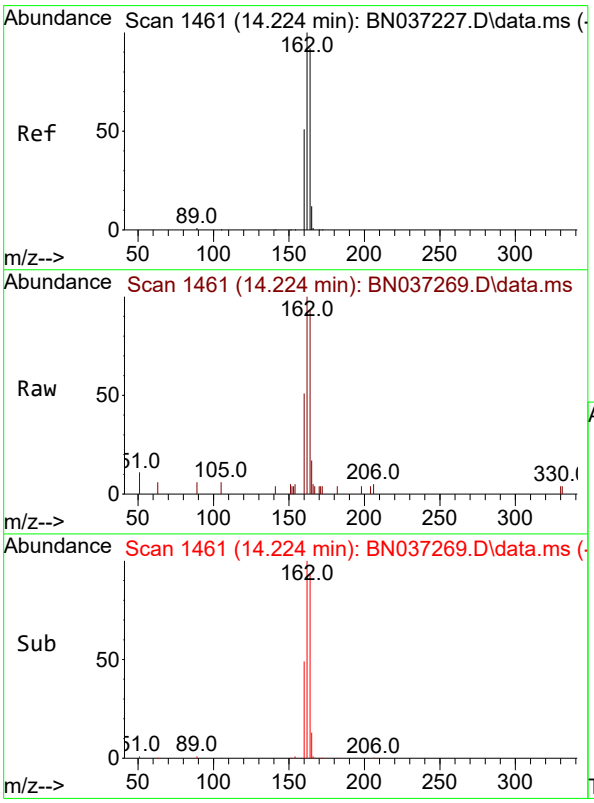
#11
2-Methylnaphthalene-d10
Concen: 0.287 ng
RT: 11.955 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN037269.D
Acq: 14 Jun 2025 19:24

Instrument :
BNA_N
ClientSampleId :
TT190D2-20250611

Tgt Ion:152 Resp: 1172

Ion	Ratio	Lower	Upper
152	100		
151	19.8	17.9	26.9

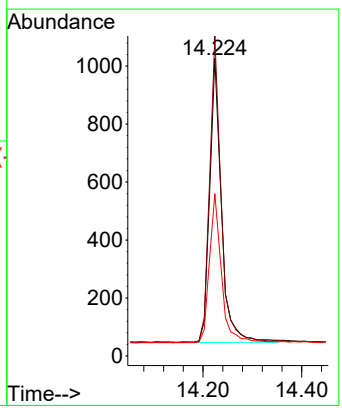


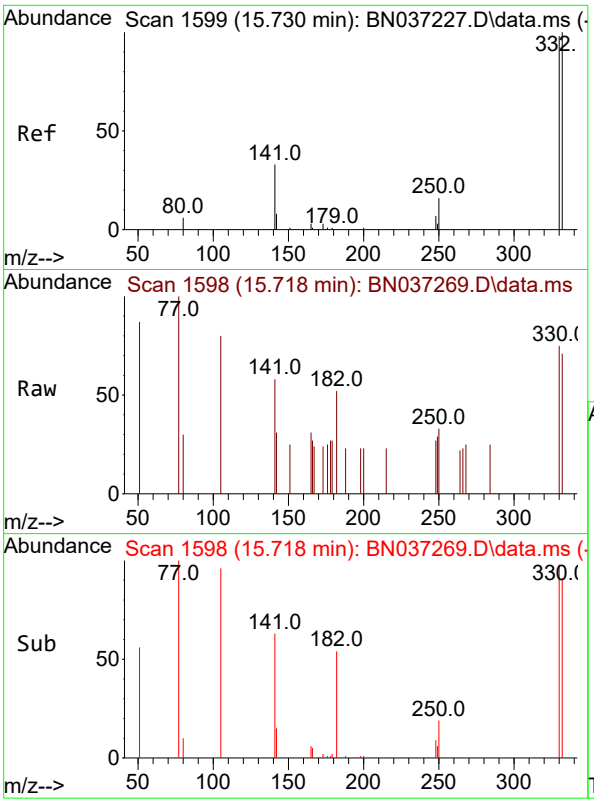


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BN037269.D
Acq: 14 Jun 2025 19:24

Tgt Ion:164 Resp: 1624

Ion	Ratio	Lower	Upper
164	100		
162	107.4	86.7	130.1
160	54.5	45.8	68.6



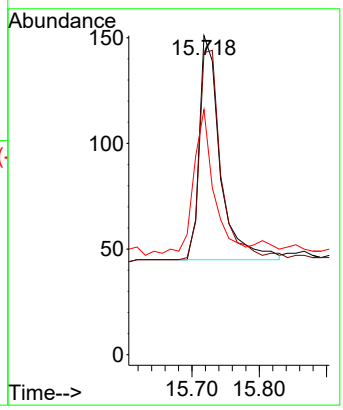


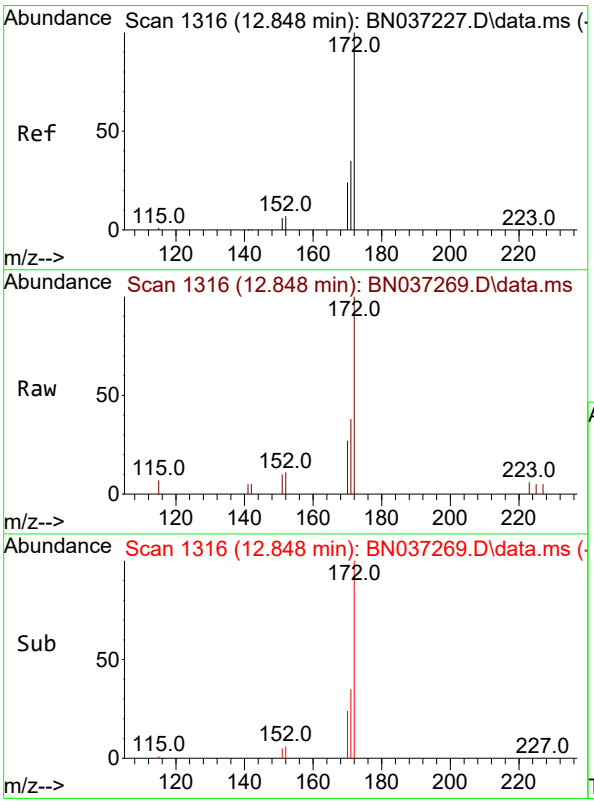
#14
2,4,6-Tribromophenol
Concen: 0.338 ng
RT: 15.718 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037269.D
Acq: 14 Jun 2025 19:24

Instrument :
BNA_N
ClientSampleId :
TT190D2-20250611

Tgt Ion:330 Resp: 228

Ion	Ratio	Lower	Upper
330	100		
332	100.0	74.9	112.3
141	61.4	45.1	67.7

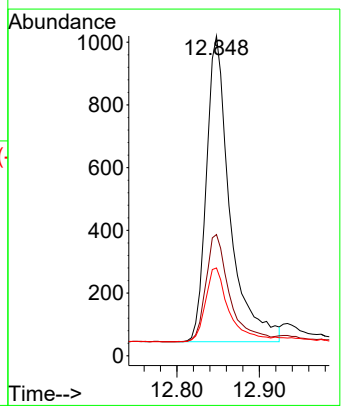


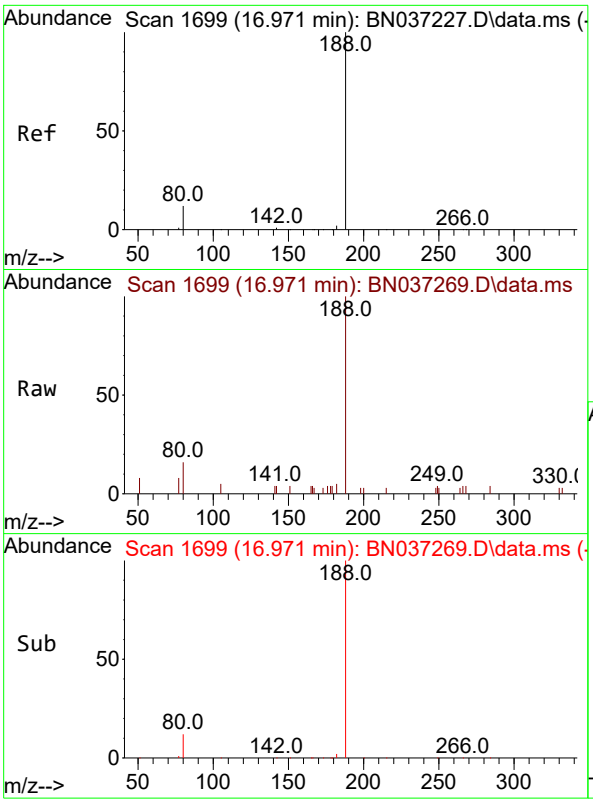


#15
2-Fluorobiphenyl
Concen: 0.284 ng
RT: 12.848 min Scan# 1316
Delta R.T. 0.000 min
Lab File: BN037269.D
Acq: 14 Jun 2025 19:24

Tgt Ion:172 Resp: 1938

Ion	Ratio	Lower	Upper
172	100		
171	37.9	29.8	44.8
170	27.5	21.1	31.7



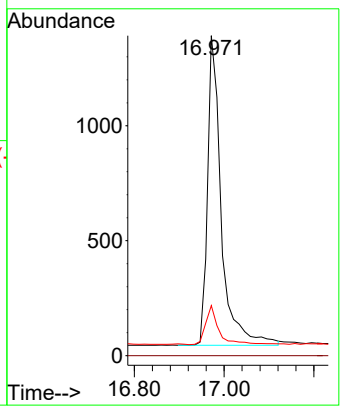


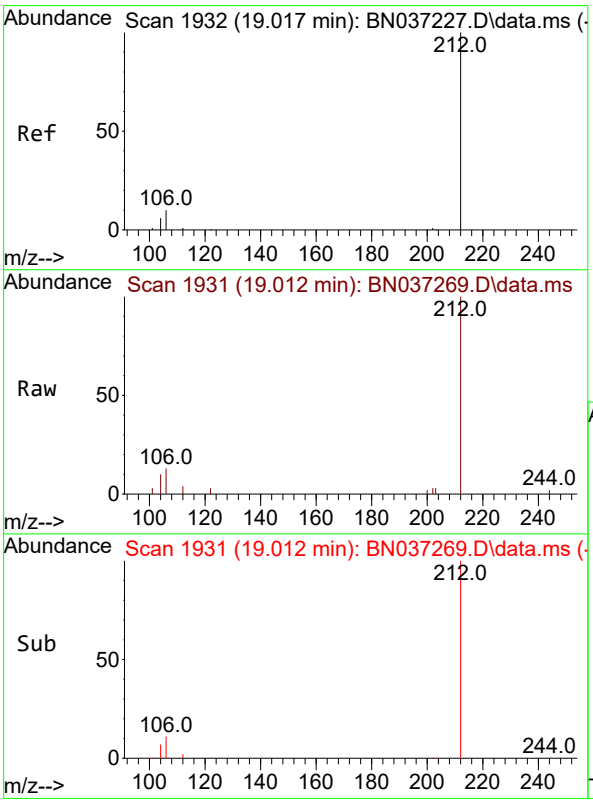
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037269.D
Acq: 14 Jun 2025 19:24

Instrument :
BNA_N
ClientSampleId :
TT190D2-20250611

Tgt Ion:188 Resp: 2851

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	15.7	12.2	18.4

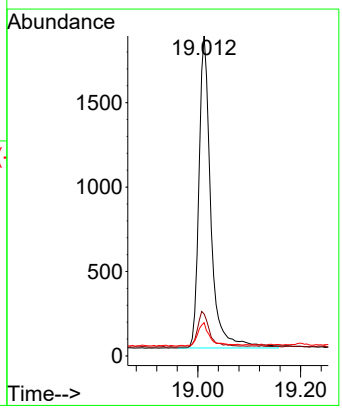


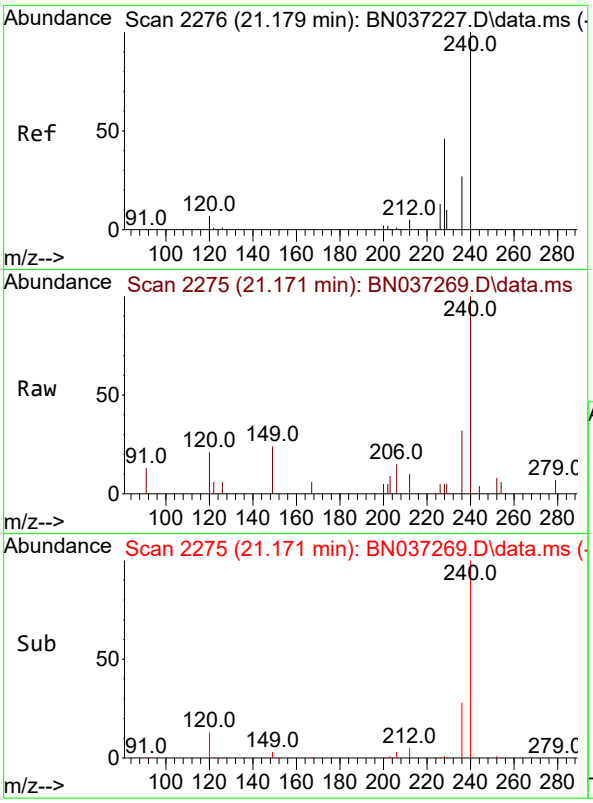


#27
Fluoranthene-d10
Concen: 0.400 ng
RT: 19.012 min Scan# 1931
Delta R.T. -0.004 min
Lab File: BN037269.D
Acq: 14 Jun 2025 19:24

Tgt Ion:212 Resp: 2983

Ion	Ratio	Lower	Upper
212	100		
106	11.7	9.3	13.9
104	7.3	5.7	8.5



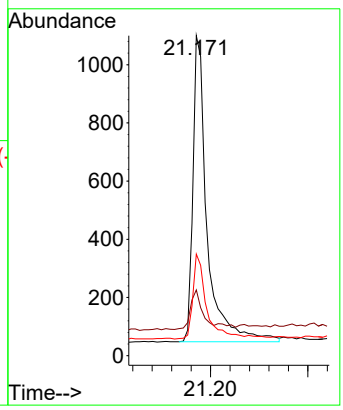


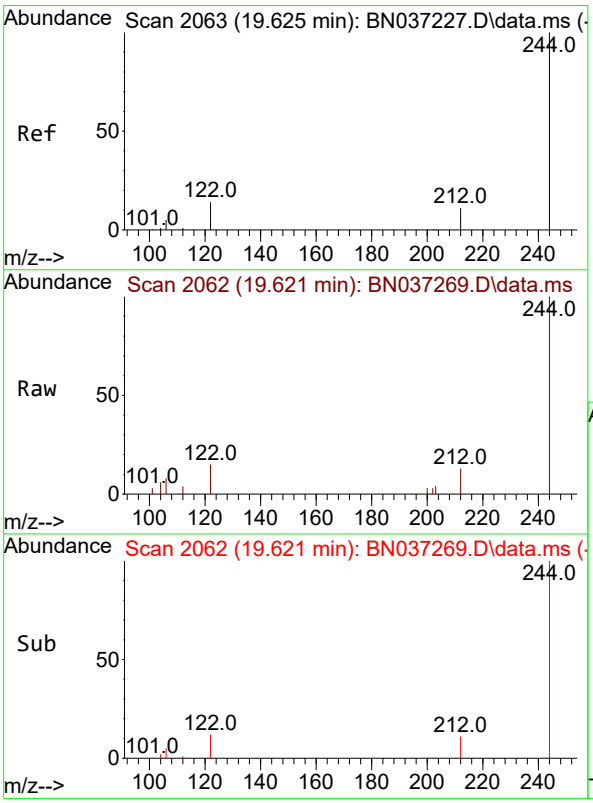
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.171 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037269.D
Acq: 14 Jun 2025 19:24

Instrument :
BNA_N
ClientSampleId :
TT190D2-20250611

Tgt Ion:240 Resp: 2132

Ion	Ratio	Lower	Upper
240	100		
120	20.5	11.3	16.9#
236	31.7	24.4	36.6

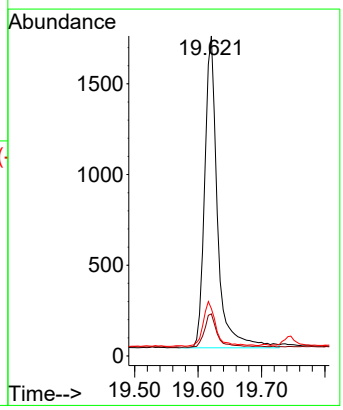


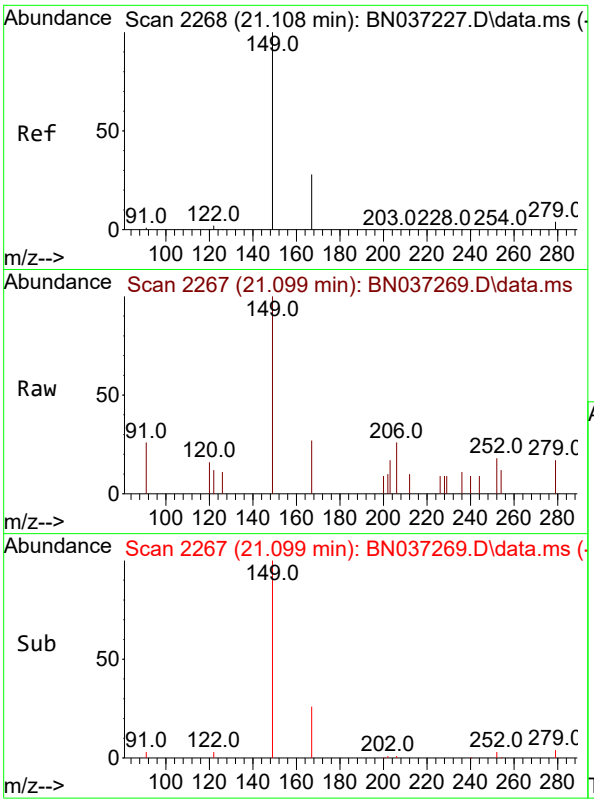


#31
Terphenyl-d14
Concen: 0.499 ng
RT: 19.621 min Scan# 2062
Delta R.T. -0.004 min
Lab File: BN037269.D
Acq: 14 Jun 2025 19:24

Tgt Ion:244 Resp: 2407

Ion	Ratio	Lower	Upper
244	100		
212	13.2	12.2	18.2
122	14.8	14.3	21.5



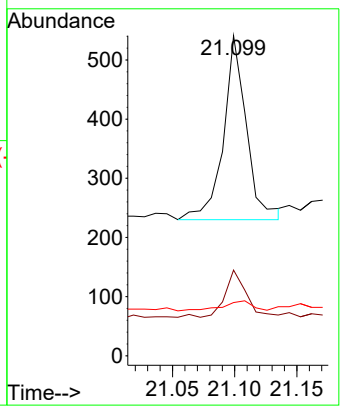


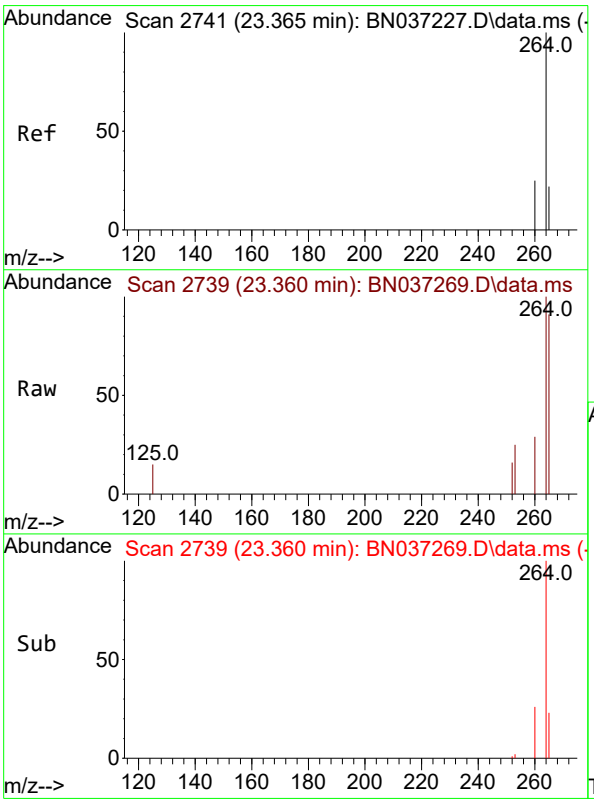
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.075 ng
RT: 21.099 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037269.D
Acq: 14 Jun 2025 19:24

Instrument :
BNA_N
ClientSampleId :
TT190D2-20250611

Tgt Ion:149 Resp: 402

Ion	Ratio	Lower	Upper
149	100		
167	25.4	21.3	31.9
279	7.0	3.3	4.9#

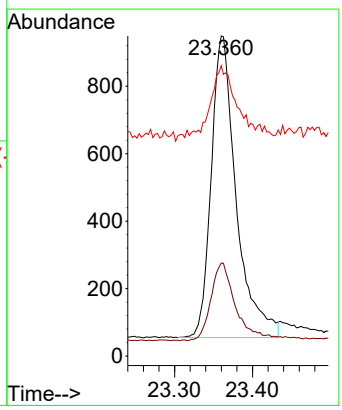




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.360 min Scan# 2739
Delta R.T. -0.006 min
Lab File: BN037269.D
Acq: 14 Jun 2025 19:24

Tgt Ion:264 Resp: 1996

Ion	Ratio	Lower	Upper
264	100		
260	29.1	22.8	34.2
265	90.7	66.4	99.6



CALIBRATION SUMMARY

Response Factor Report BNA_N

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN061325.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Jun 13 18:43:34 2025
Response Via : Initial Calibration

Calibration Files
0.1 =BN037225.D 0.2 =BN037226.D 0.4 =BN037227.D 0.8 =BN037228.D 1.6 =BN037229.D 3.2 =BN037230.D 5.0 =BN037231.D

		Compound	0.1	0.2	0.4	0.8	1.6	3.2	5.0	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------								
2)		1,4-Dioxane		0.683	0.525	0.535	0.549	0.515	0.486	0.549	12.56
3)		n-Nitrosodimet...		1.357	1.277	1.208	1.295	1.232	1.134	1.250	6.18
4)	S	2-Fluorophenol	1.043	1.026	0.942	0.907	0.996	0.990	0.972	0.982	4.80
5)	S	Phenol-d6	0.875	0.937	0.963	0.986	1.148	1.166	1.173	1.035	11.94
6)		bis(2-Chloroet...	0.768	0.709	0.870	0.955	1.086	1.064	1.040	0.927	16.08
7)	I	Naphthalene-d8	----------ISTD----------								
8)	S	Nitrobenzene-d5	0.366	0.304	0.384	0.377	0.440	0.442	0.453	0.395	13.53
9)		Naphthalene	1.186	1.153	1.133	1.109	1.208	1.161	1.159	1.158	2.83
10)		Hexachlorobuta...	0.299	0.290	0.302	0.271	0.285	0.267	0.258	0.282	5.91
11)	SURR	2-Methylnaphth...	0.496	0.504	0.557	0.520	0.576	0.552	0.553	0.537	5.64
12)		2-Methylnaphth...	0.631	0.634	0.704	0.699	0.769	0.746	0.745	0.704	7.77
13)	I	Acenaphthene-d10	----------ISTD----------								
14)	S	2,4,6-Tribromo...	0.126	0.146	0.171	0.171	0.188	0.183	0.178	0.166	13.42
15)	S	2-Fluorobiphenyl	1.566	1.530	1.699	1.658	1.822	1.777	1.715	1.681	6.31
16)		Acenaphthylene	1.907	1.870	1.870	1.915	2.077	2.062	2.021	1.960	4.61
17)		Acenaphthene	1.242	1.209	1.240	1.230	1.341	1.318	1.277	1.265	3.87
18)		Fluorene	1.544	1.509	1.593	1.610	1.757	1.714	1.649	1.625	5.46
19)	I	Phenanthrene-d10	----------ISTD----------								
20)		4,6-Dinitro-2-...		0.074	0.066	0.086	0.100	0.110	0.116	0.092	21.86
21)		4-Bromophenyl-...	0.248	0.248	0.244	0.256	0.278	0.276	0.273	0.261	5.65
22)		Hexachlorobenzene	0.342	0.318	0.311	0.284	0.297	0.284	0.279	0.302	7.65
23)		Atrazine	0.223	0.229	0.222	0.228	0.241	0.241	0.244	0.232	3.84
24)		Pentachlorophenol		0.139	0.124	0.137	0.154	0.162	0.171	0.148	11.86
25)		Phenanthrene	1.253	1.225	1.186	1.238	1.324	1.328	1.327	1.269	4.54
26)		Anthracene	1.094	1.079	1.080	1.138	1.221	1.257	1.261	1.161	7.13
27)	SURR	Fluoranthene-d10	1.015	1.073	1.053	1.017	1.053	1.043	1.073	1.046	2.27
28)		Fluoranthene	1.470	1.508	1.412	1.449	1.509	1.510	1.537	1.485	2.94
29)	I	Chrysene-d12	----------ISTD----------								
30)		Pyrene	1.850	1.740	1.962	1.849	2.016	1.892	1.854	1.881	4.74
31)	S	Terphenyl-d14	0.815	0.845	0.946	0.871	0.990	0.939	0.924	0.904	6.89
32)		Benzo(a)anthra...	1.175	1.204	1.225	1.332	1.512	1.507	1.499	1.351	11.36
33)		Chrysene	1.783	1.722	1.695	1.617	1.711	1.633	1.616	1.683	3.73
34)		Bis(2-ethylhex...		1.104	1.024	1.000	1.006	0.942	0.960	1.006	5.65
35)	I	Perylene-d12	----------ISTD----------								

Response Factor Report BNA_N

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN061325.M

36)		Indeno(1,2,3-c...	1.506	1.503	1.507	1.486	1.718	1.757	1.813	1.613	8.87
37)		Benzo(b)fluora...	1.309	1.288	1.376	1.456	1.618	1.576	1.620	1.463	9.81
38)		Benzo(k)fluora...	1.835	1.503	1.628	1.667	1.757	1.704	1.728	1.689	6.24
39)	C	Benzo(a)pyrene	1.271	1.208	1.234	1.298	1.407	1.382	1.413	1.316	6.42
40)		Dibenzo(a,h)an...	1.106	1.102	1.049	1.118	1.362	1.425	1.427	1.227	13.76
41)		Benzo(g,h,i)pe...	1.504	1.460	1.441	1.386	1.557	1.566	1.557	1.496	4.63

(#) = Out of Range

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037225.D
Acq On : 13 Jun 2025 13:33
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025

Quant Time: Jun 13 18:36:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:34:15 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	859	0.400	ng	0.00
7) Naphthalene-d8	10.362	136	2097	0.400	ng	# 0.00
13) Acenaphthene-d10	14.224	164	1114	0.400	ng	0.00
19) Phenanthrene-d10	16.984	188	1916	0.400	ng	0.01
29) Chrysene-d12	21.180	240	1546	0.400	ng	# 0.00
35) Perylene-d12	23.368	264	1617	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.170	112	224	0.106	ng	0.00
5) Phenol-d6	6.759	99	188	0.085	ng	0.00
8) Nitrobenzene-d5	8.739	82	192	0.093	ng	0.01
11) 2-Methylnaphthalene-d10	11.960	152	260	0.092	ng	0.00
14) 2,4,6-Tribromophenol	15.730	330	35	0.076	ng	0.00
15) 2-Fluorobiphenyl	12.853	172	436	0.093	ng	0.00
27) Fluoranthene-d10	19.021	212	486	0.097	ng	0.00
31) Terphenyl-d14	19.635	244	315	0.090	ng	0.00
Target Compounds						Qvalue
6) bis(2-Chloroethyl)ether	7.012	93	165	0.083	ng	85
9) Naphthalene	10.404	128	622	0.102	ng	# 77
10) Hexachlorobutadiene	10.693	225	157	0.106	ng	# 95
12) 2-Methylnaphthalene	12.036	142	331	0.090	ng	# 93
16) Acenaphthylene	13.946	152	531	0.097	ng	95
17) Acenaphthene	14.288	154	346	0.098	ng	96
18) Fluorene	15.282	166	430	0.095	ng	100
21) 4-Bromophenyl-phenylether	16.177	248	119	0.095	ng	91
22) Hexachlorobenzene	16.289	284	164	0.113	ng	96
23) Atrazine	16.462	200	107	0.096	ng	# 63
25) Phenanthrene	17.021	178	600	0.099	ng	100
26) Anthracene	17.120	178	524	0.094	ng	100
28) Fluoranthene	19.049	202	704	0.099	ng	99
30) Pyrene	19.412	202	715	0.098	ng	99
32) Benzo(a)anthracene	21.162	228	454	0.087	ng	# 79
33) Chrysene	21.215	228	689	0.106	ng	# 85
36) Indeno(1,2,3-cd)pyrene	25.570	276	609	0.093	ng	# 74
37) Benzo(b)fluoranthene	22.719	252	529	0.089	ng	# 41
38) Benzo(k)fluoranthene	22.760	252	742m	0.109	ng	
39) Benzo(a)pyrene	23.284	252	514	0.097	ng	# 23
40) Dibenzo(a,h)anthracene	25.590	278	447m	0.091	ng	
41) Benzo(g,h,i)perylene	26.228	276	608	0.101	ng	# 64

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

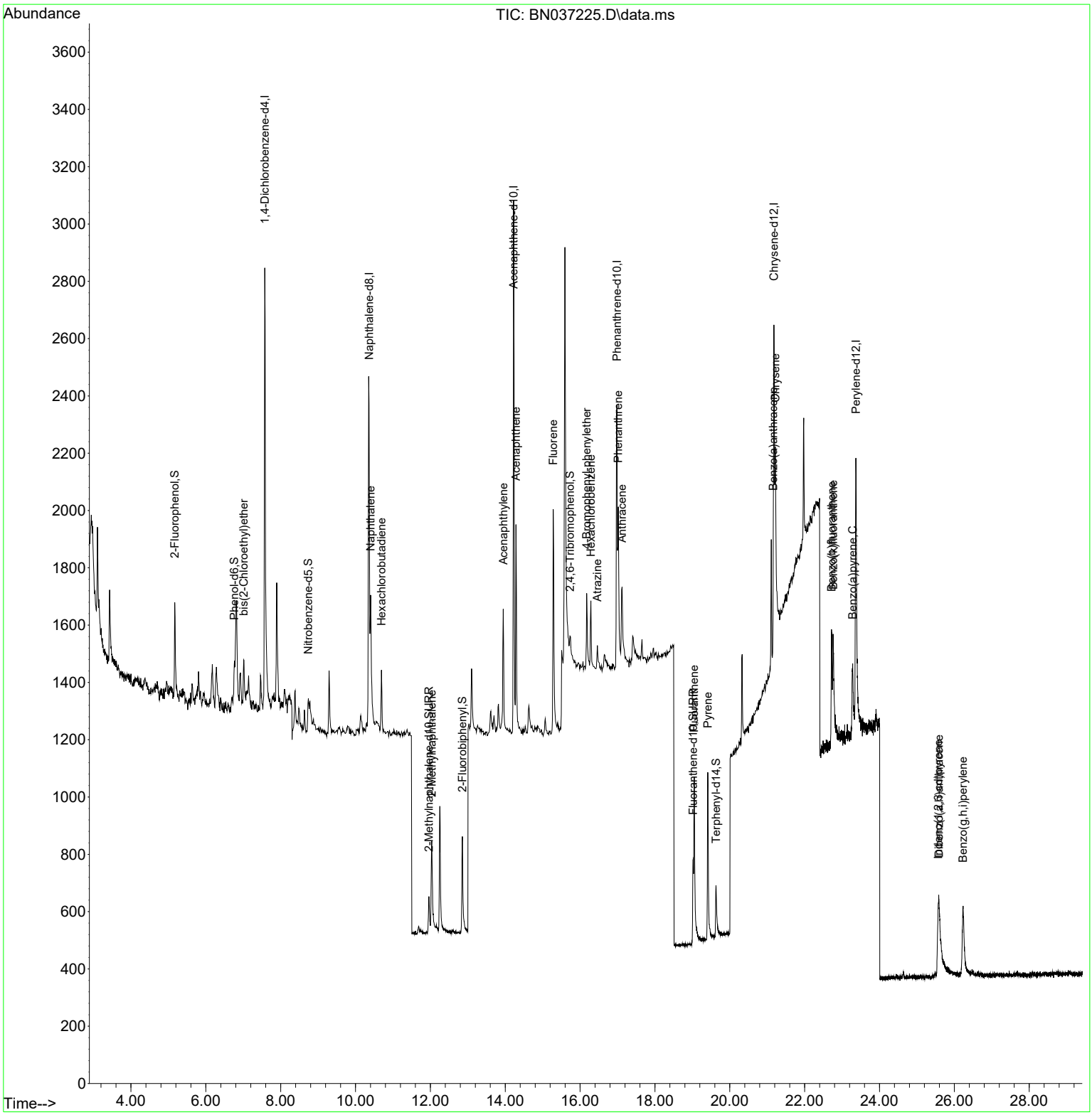
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037225.D
Acq On : 13 Jun 2025 13:33
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 3 Sample Multiplier: 1

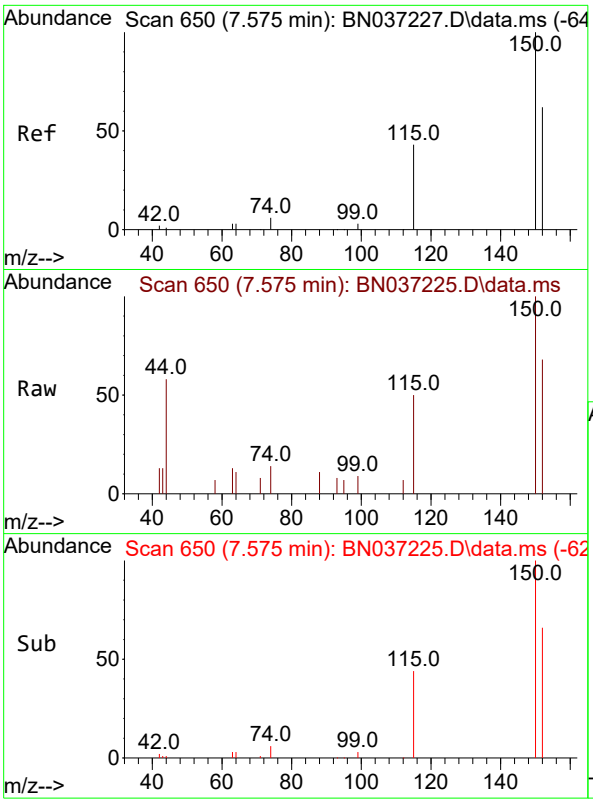
Quant Time: Jun 13 18:36:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:34:15 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025

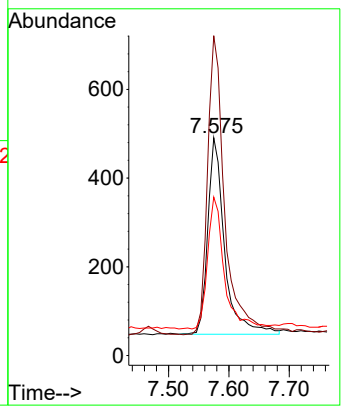




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion:152 Resp: 85

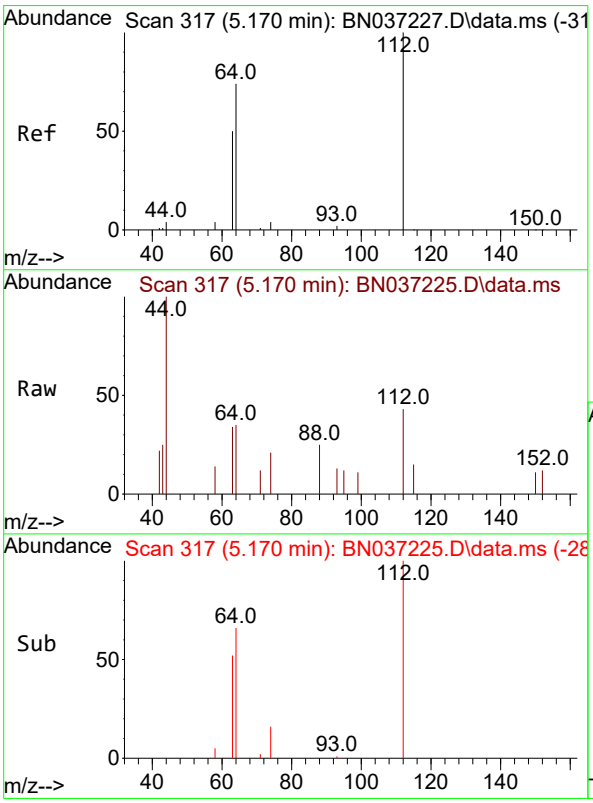
Ion	Ratio	Lower	Upper
152	100		
150	146.8	125.2	187.8
115	72.7	58.4	87.6



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

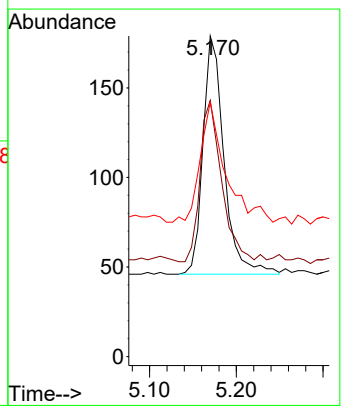
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025

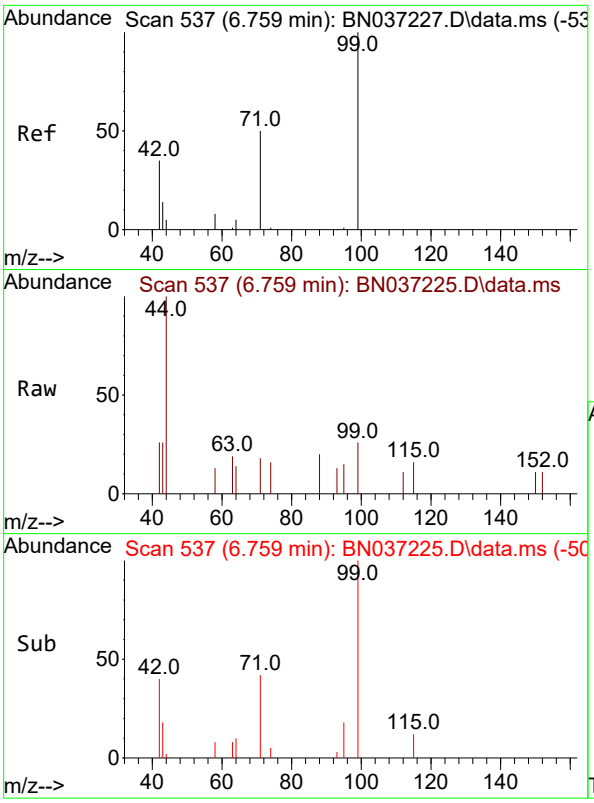


#4
2-Fluorophenol
Concen: 0.106 ng
RT: 5.170 min Scan# 317
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion:112 Resp: 224

Ion	Ratio	Lower	Upper
112	100		
64	69.2	57.2	85.8
63	65.6	39.8	59.6#

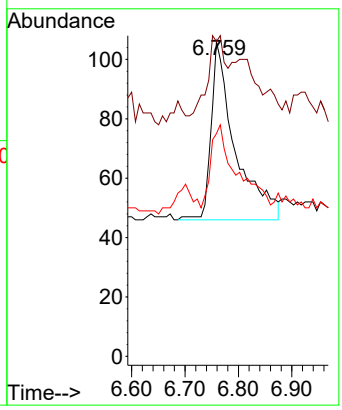




#5
Phenol-d6
Concen: 0.085 ng
RT: 6.759 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion: 99 Resp: 18

Ion	Ratio	Lower	Upper
99	100		
42	33.0	36.2	54.4
71	51.1	42.4	63.6



Instrument :
BNA_N
ClientSampleId :
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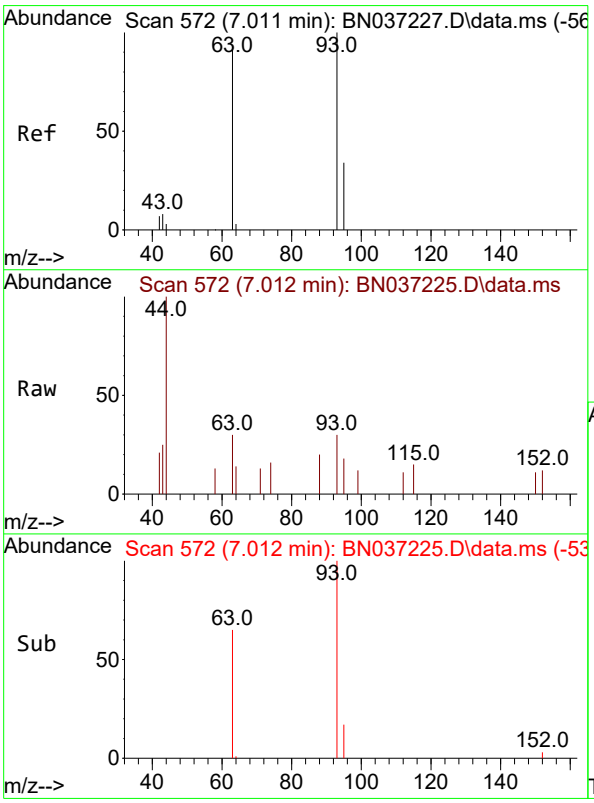
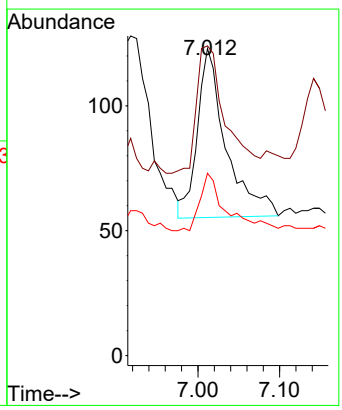
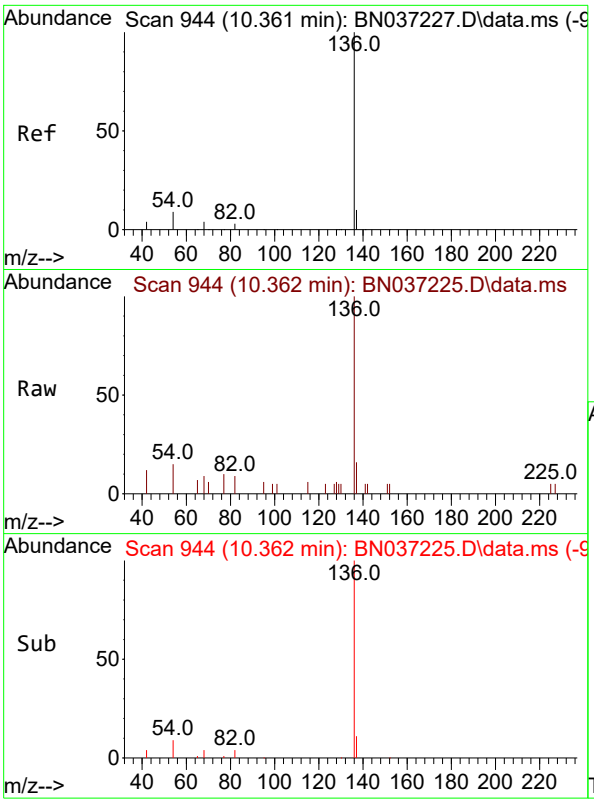


#6
bis(2-Chloroethyl)ether
Concen: 0.083 ng
RT: 7.012 min Scan# 572
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion: 93 Resp: 165

Ion	Ratio	Lower	Upper
93	100		
63	76.4	75.2	112.8
95	30.9	28.3	42.5

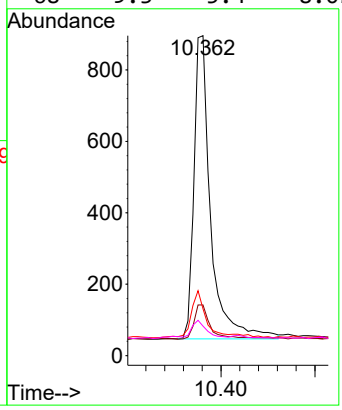




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.362 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion:136 Resp: 209

Ion	Ratio	Lower	Upper
136	100		
137	15.8	10.6	15.8#
54	14.6	9.2	13.8#
68	9.3	5.4	8.0#



Instrument :
BNA_N
ClientSampleId :
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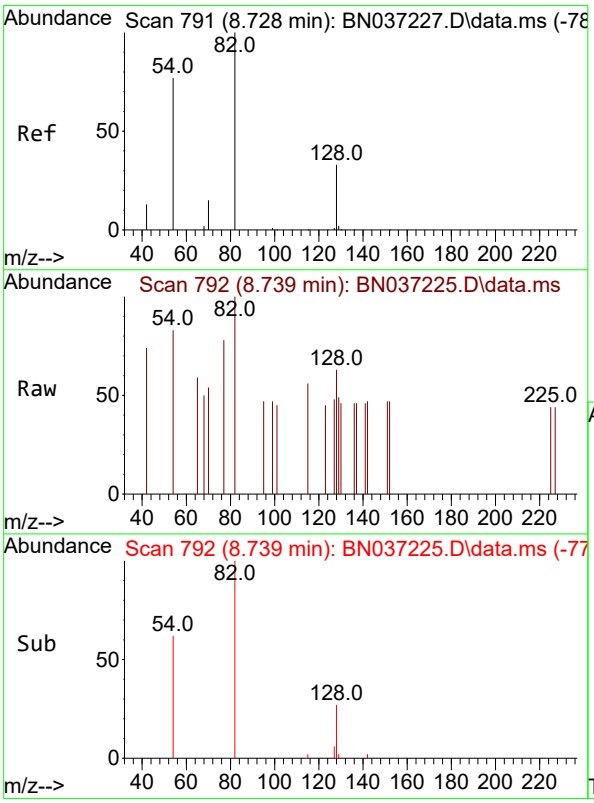
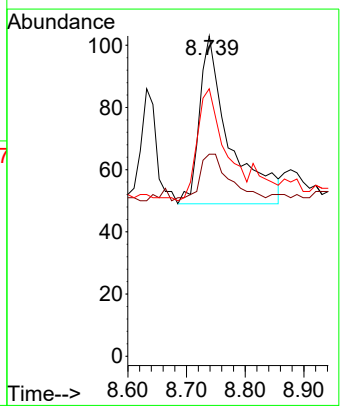
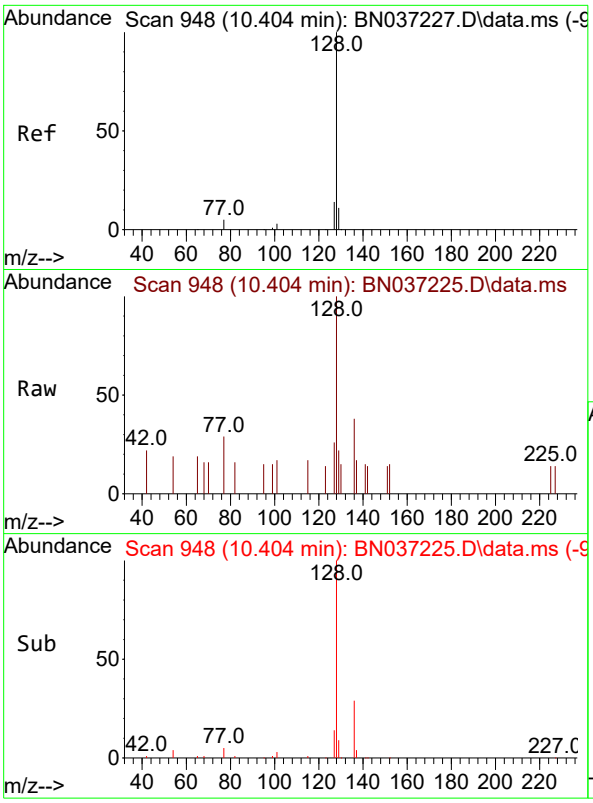


#8
Nitrobenzene-d5
Concen: 0.093 ng
RT: 8.739 min Scan# 792
Delta R.T. 0.011 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion: 82 Resp: 192

Ion	Ratio	Lower	Upper
82	100		
128	63.1	31.2	46.8#
54	83.5	63.3	94.9

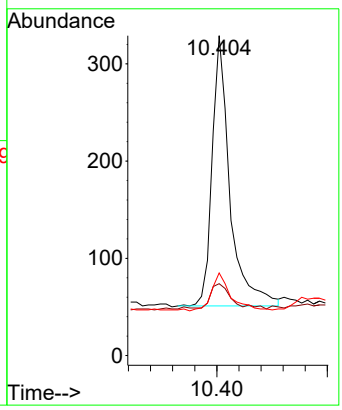




#9
Naphthalene
Concen: 0.102 ng
RT: 10.404 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion:128 Resp: 62

Ion	Ratio	Lower	Upper
128	100		
129	22.5	10.7	16.1#
127	25.8	12.6	19.0#



Instrument :
BNA_N
ClientSampleId :
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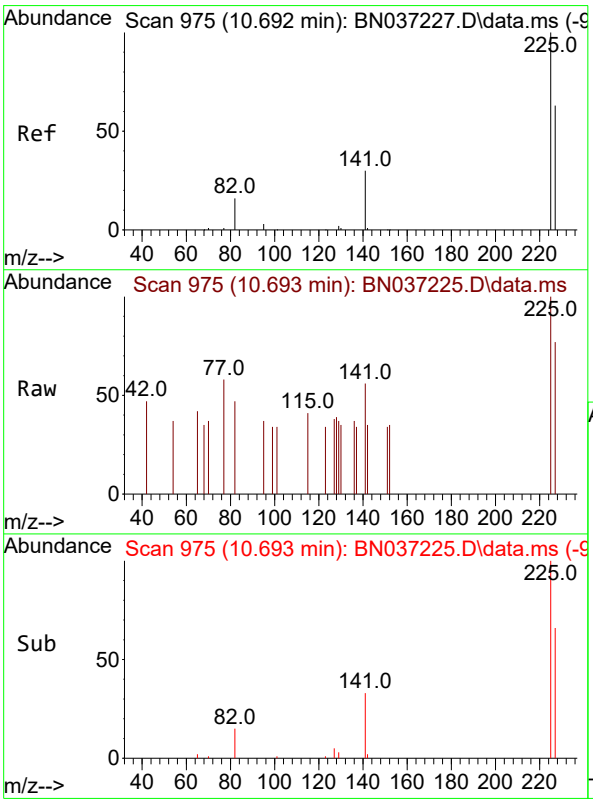
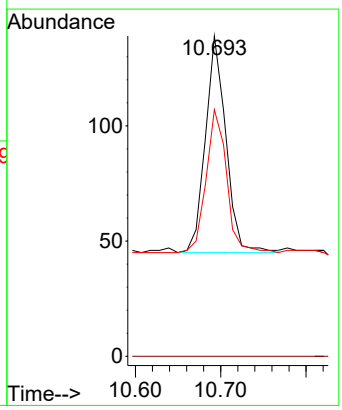
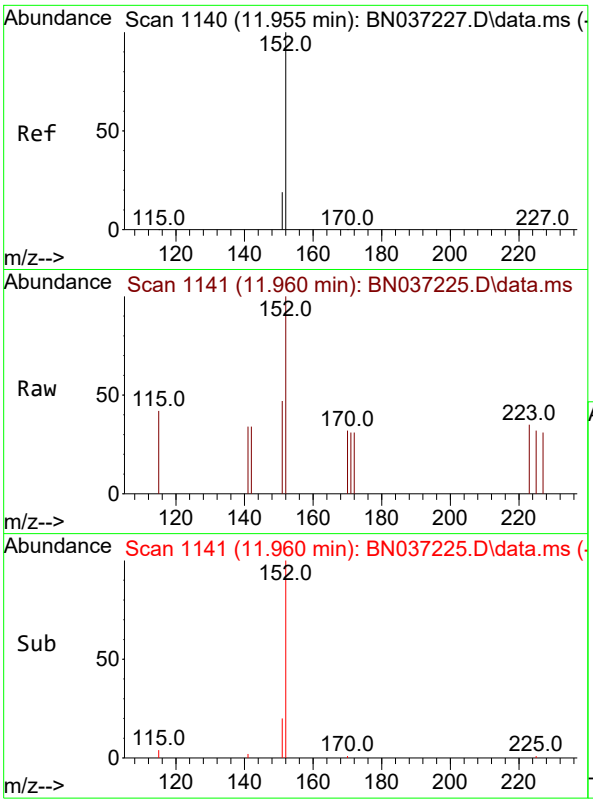


#10
Hexachlorobutadiene
Concen: 0.106 ng
RT: 10.693 min Scan# 975
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion:225 Resp: 157

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	65.6	49.2	73.8





#11
2-Methylnaphthalene-d10
Concen: 0.092 ng
RT: 11.960 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion:152 Resp: 26

Ion	Ratio	Lower	Upper
152	100		
151	20.8	17.9	26.9

Instrument :
BNA_N
ClientSampleId :
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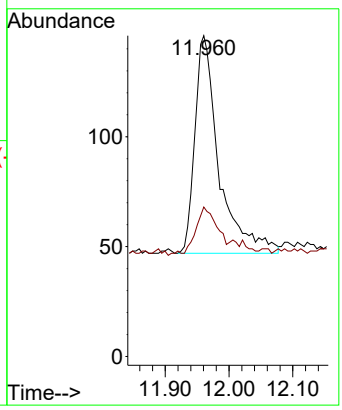
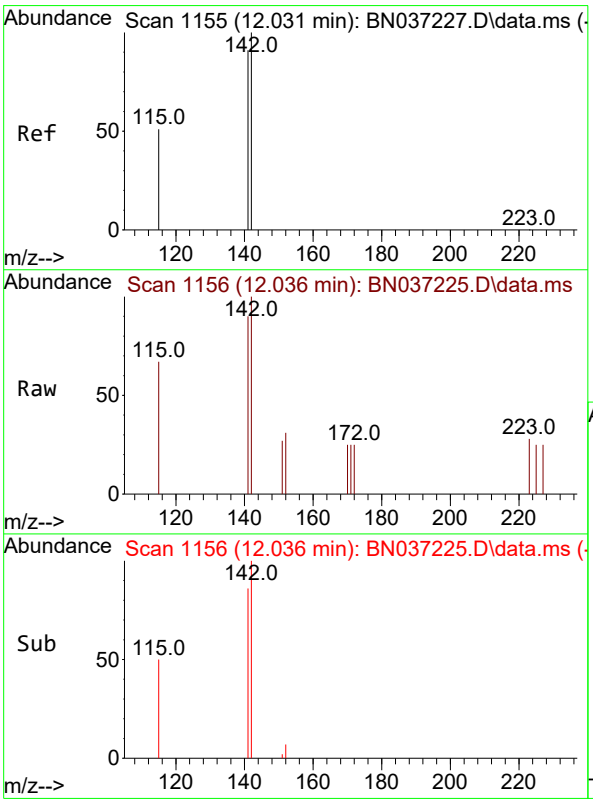
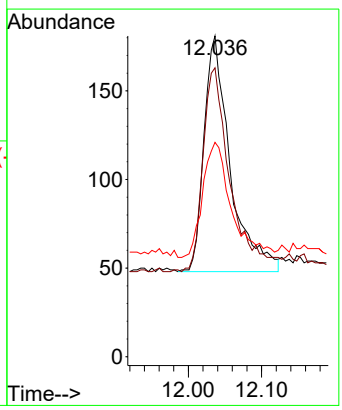


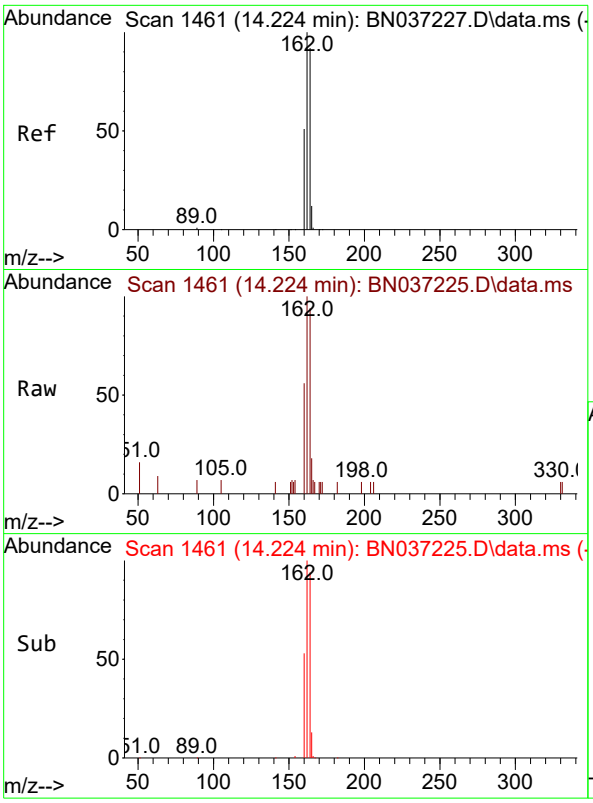


#12
2-Methylnaphthalene
Concen: 0.090 ng
RT: 12.036 min Scan# 1156
Delta R.T. 0.005 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion:142 Resp: 331

Ion	Ratio	Lower	Upper
142	100		
141	90.1	73.0	109.6
115	66.9	43.3	64.9#

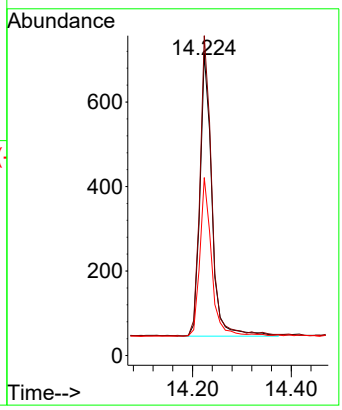




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion:164 Resp: 111

Ion	Ratio	Lower	Upper
164	100		
162	106.2	86.7	130.1
160	59.0	45.8	68.6



Instrument :
BNA_N
ClientSampleId :
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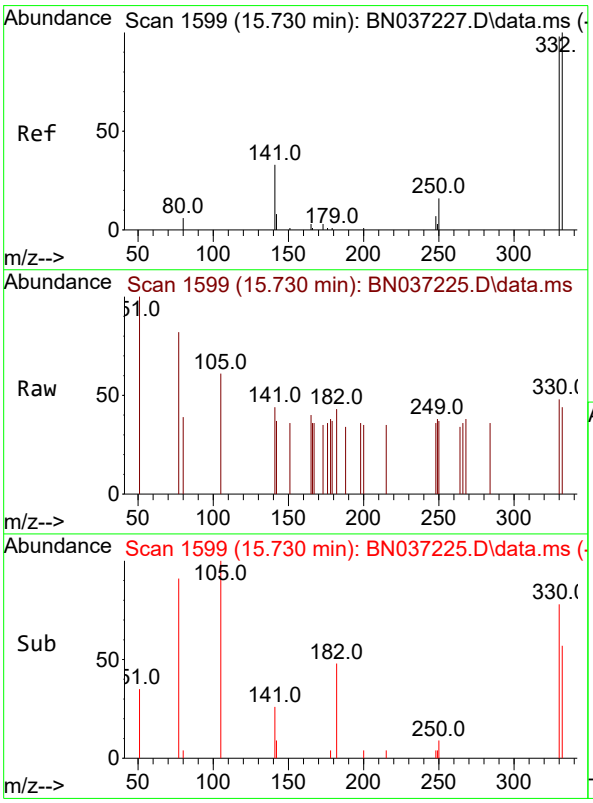
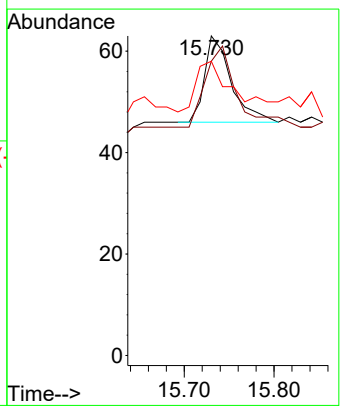
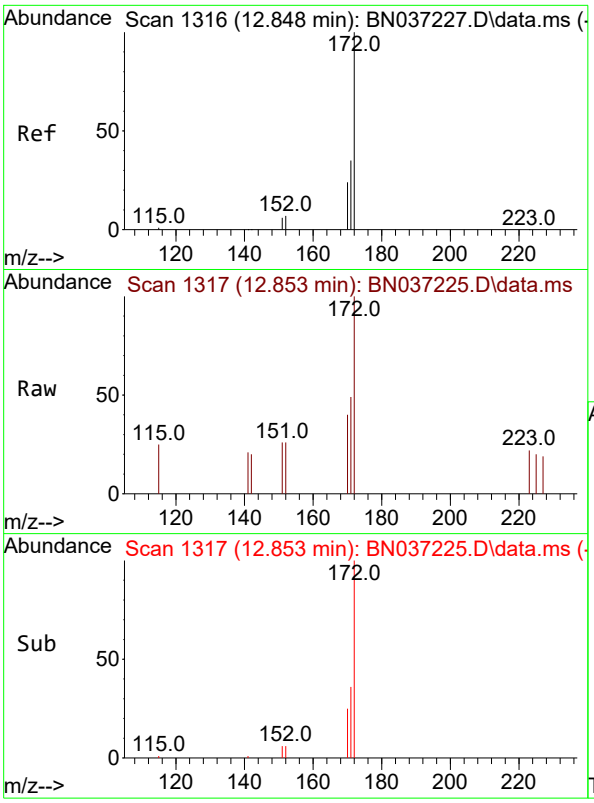


#14
2,4,6-Tribromophenol
Concen: 0.076 ng
RT: 15.730 min Scan# 1599
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion:330 Resp: 35

Ion	Ratio	Lower	Upper
330	100		
332	111.4	74.9	112.3
141	82.9	45.1	67.7#

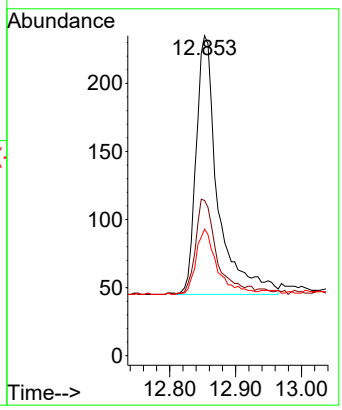




#15
2-Fluorobiphenyl
Concen: 0.093 ng
RT: 12.853 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion:172 Resp: 43

Ion	Ratio	Lower	Upper
172	100		
171	48.5	29.8	44.8#
170	39.6	21.1	31.7#



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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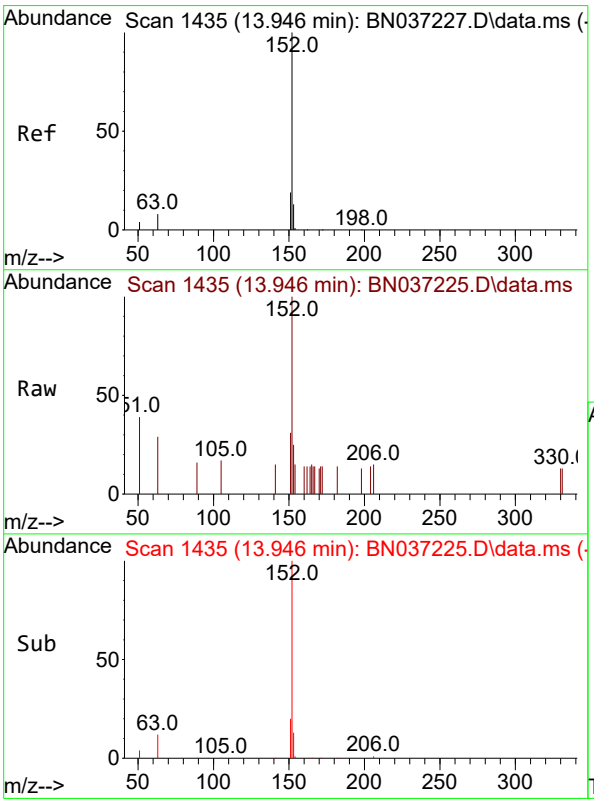
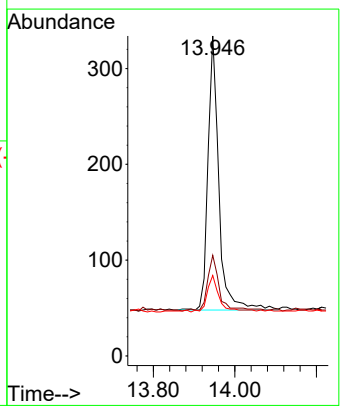
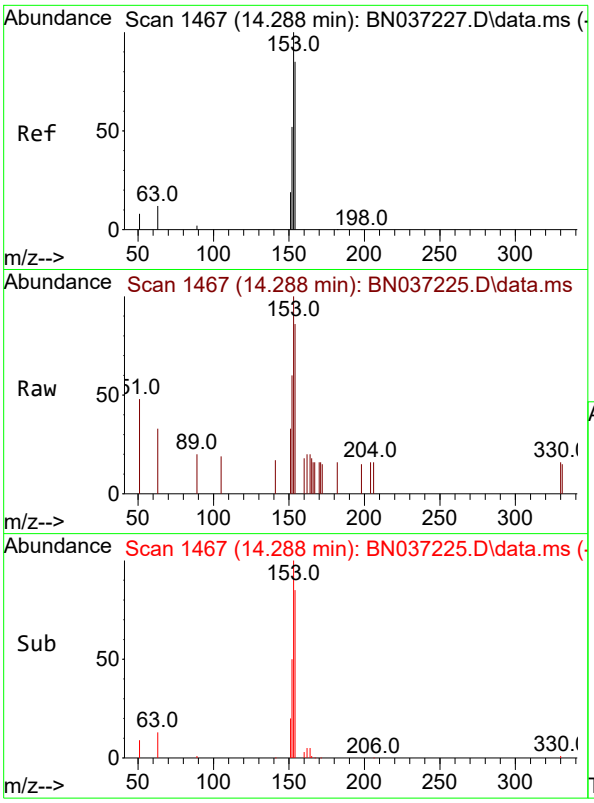


#16
Acenaphthylene
Concen: 0.097 ng
RT: 13.946 min Scan# 1435
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion:152 Resp: 531

Ion	Ratio	Lower	Upper
152	100		
151	22.4	15.7	23.5
153	14.9	10.7	16.1

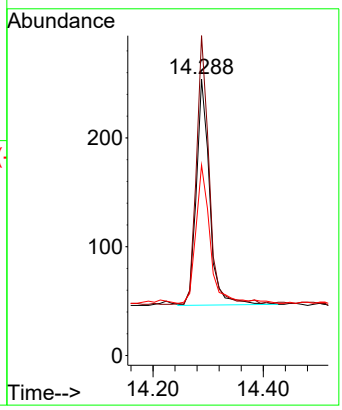




#17
Acenaphthene
Concen: 0.098 ng
RT: 14.288 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion:154 Resp: 34

Ion	Ratio	Lower	Upper
154	100		
153	114.5	94.6	141.8
152	65.9	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
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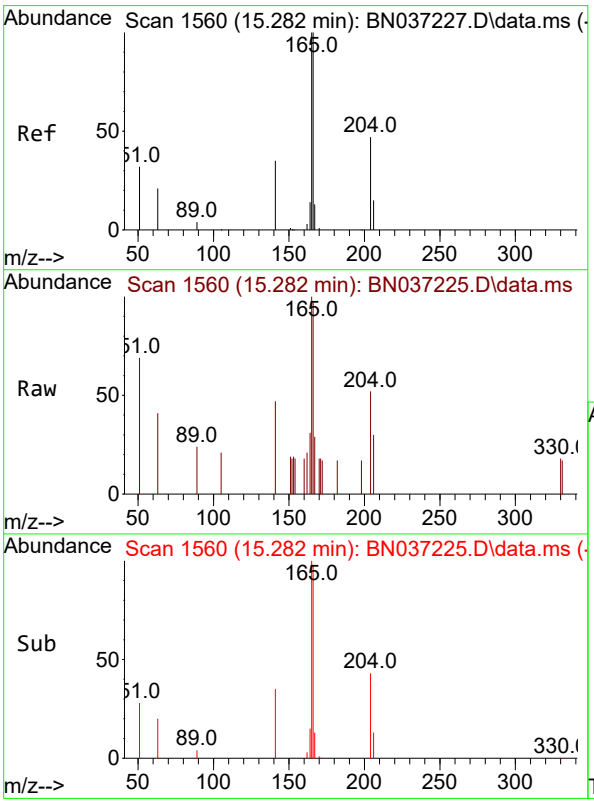
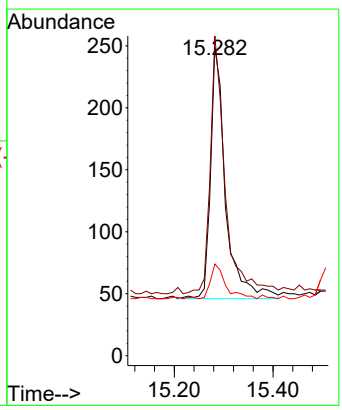
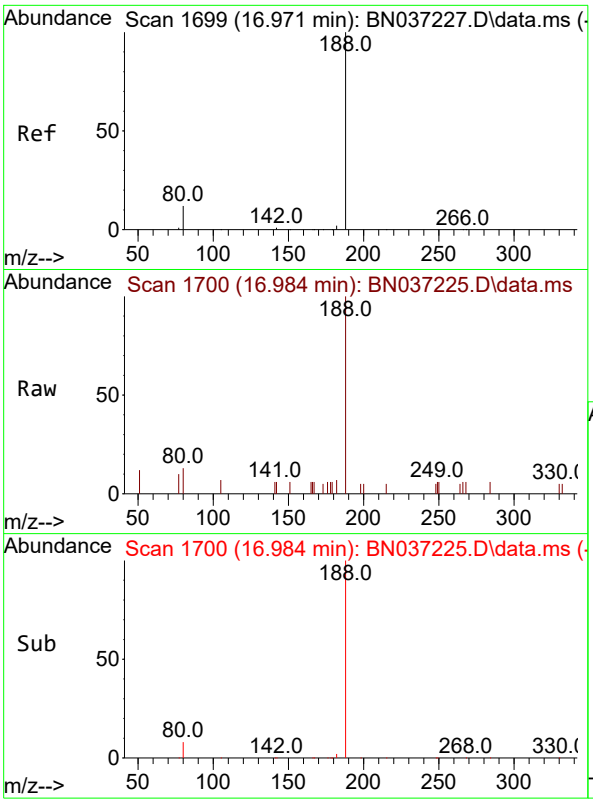


#18
Fluorene
Concen: 0.095 ng
RT: 15.282 min Scan# 1560
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion:166 Resp: 430

Ion	Ratio	Lower	Upper
166	100		
165	99.3	79.8	119.6
167	14.0	10.8	16.2

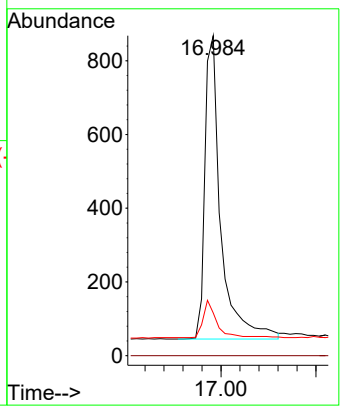




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.984 min Scan# 1
Delta R.T. 0.013 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion:188 Resp: 191

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	13.4	12.2	18.4



Instrument :
BNA_N
ClientSampleId :
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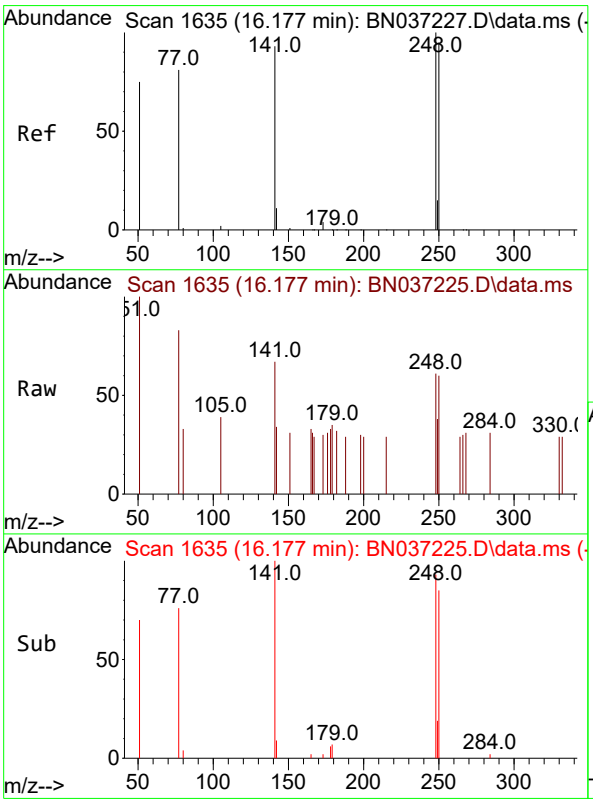
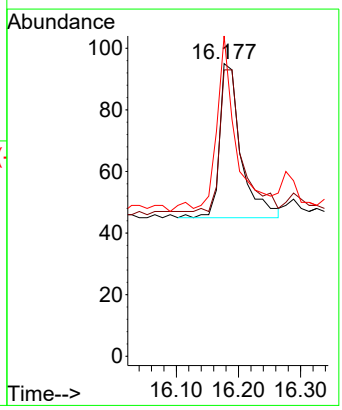
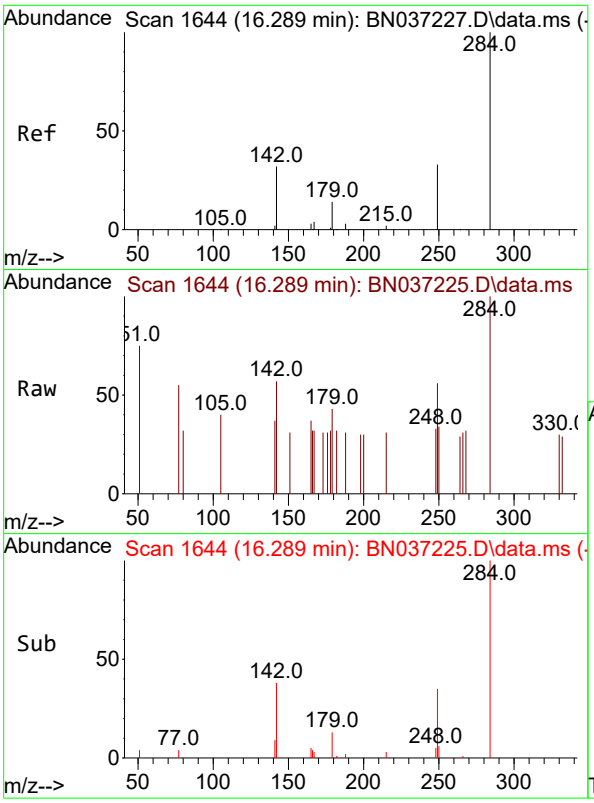


#21
4-Bromophenyl-phenylether
Concen: 0.095 ng
RT: 16.177 min Scan# 1635
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion:248 Resp: 119

Ion	Ratio	Lower	Upper
248	100		
250	97.9	76.8	115.2
141	109.5	75.6	113.4

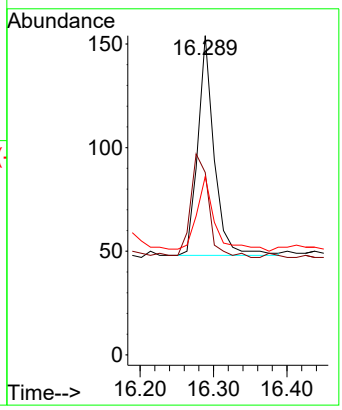




#22
Hexachlorobenzene
Concen: 0.113 ng
RT: 16.289 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion:284 Resp: 16

Ion	Ratio	Lower	Upper
284	100		
142	52.4	43.8	65.6
249	38.4	28.4	42.6



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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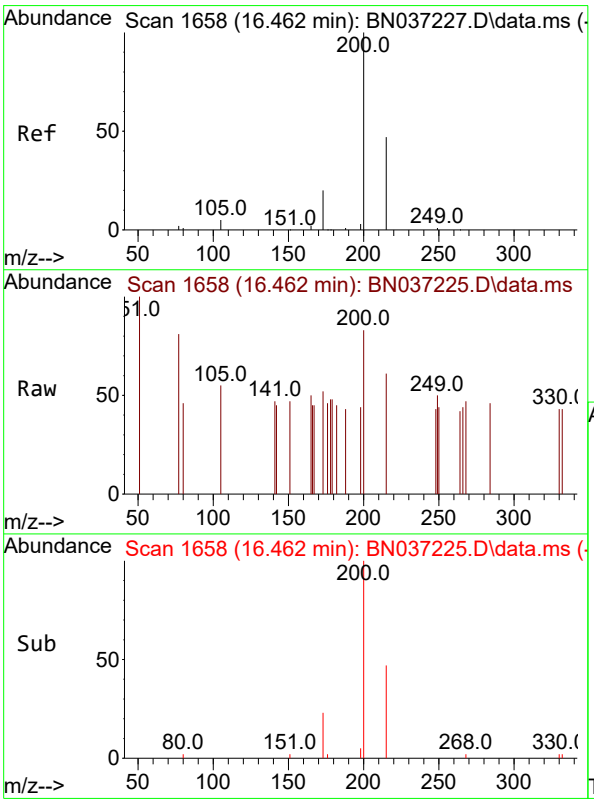
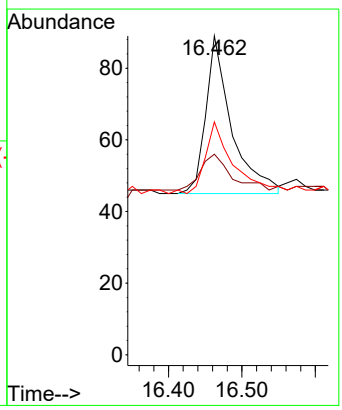
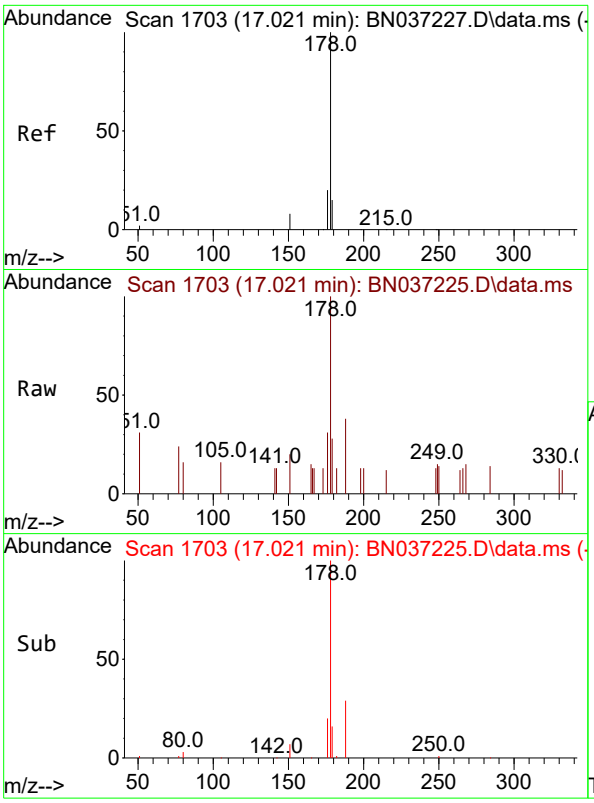


#23
Atrazine
Concen: 0.096 ng
RT: 16.462 min Scan# 1658
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion:200 Resp: 107

Ion	Ratio	Lower	Upper
200	100		
173	62.9	25.1	37.7#
215	73.0	43.7	65.5#

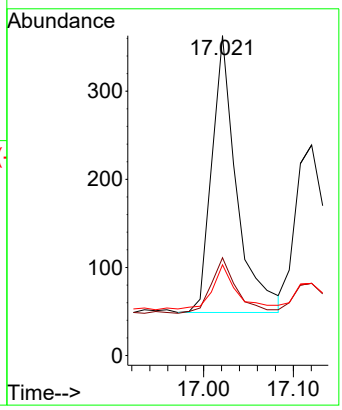




#25
Phenanthrene
Concen: 0.099 ng
RT: 17.021 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion:178 Resp: 60

Ion	Ratio	Lower	Upper
178	100		
176	20.3	16.3	24.5
179	15.8	12.6	18.8



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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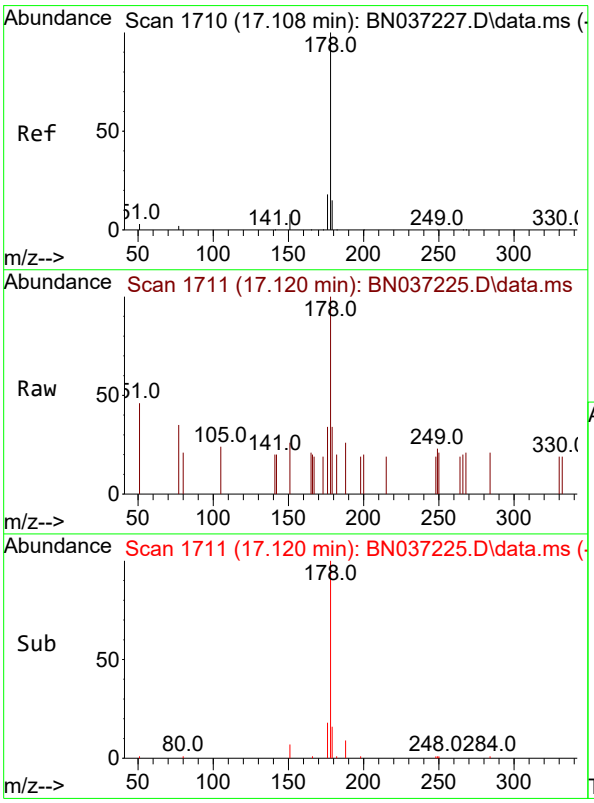
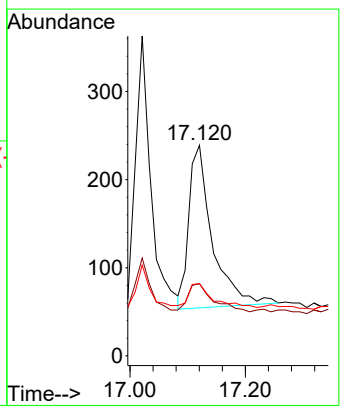
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025

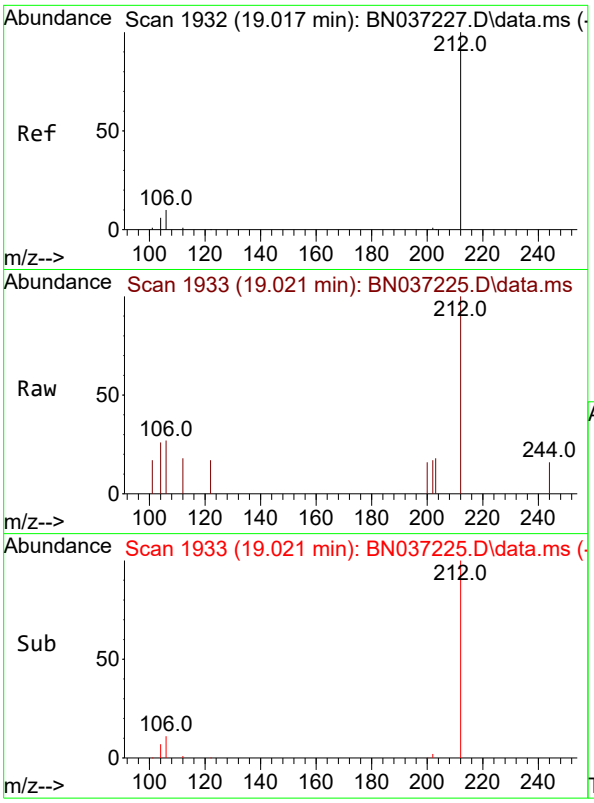


#26
Anthracene
Concen: 0.094 ng
RT: 17.120 min Scan# 1711
Delta R.T. 0.013 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion:178 Resp: 524

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.1	22.7
179	15.1	12.4	18.6

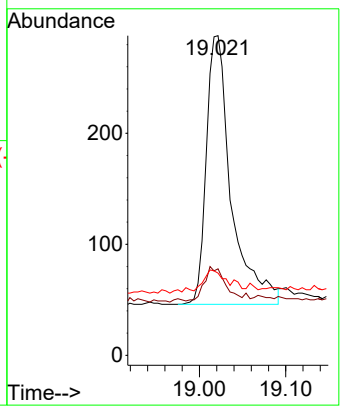




#27
Fluoranthene-d10
Concen: 0.097 ng
RT: 19.021 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion:212 Resp: 48

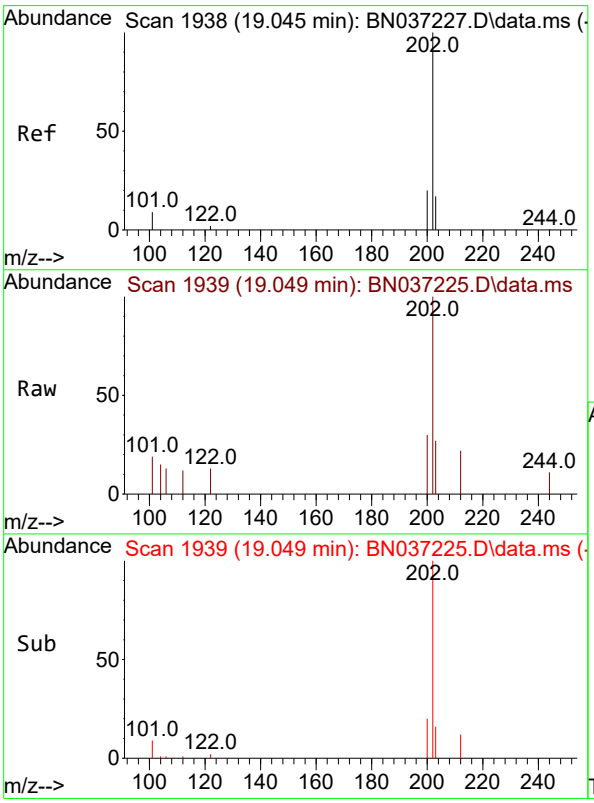
Ion	Ratio	Lower	Upper
212	100		
106	10.5	9.3	13.9
104	9.7	5.7	8.5



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

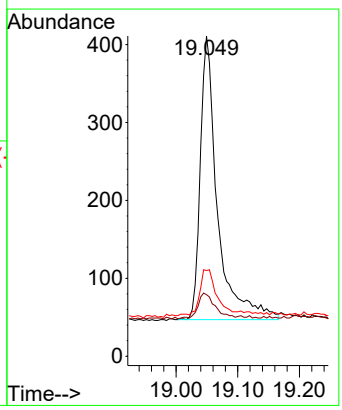
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025

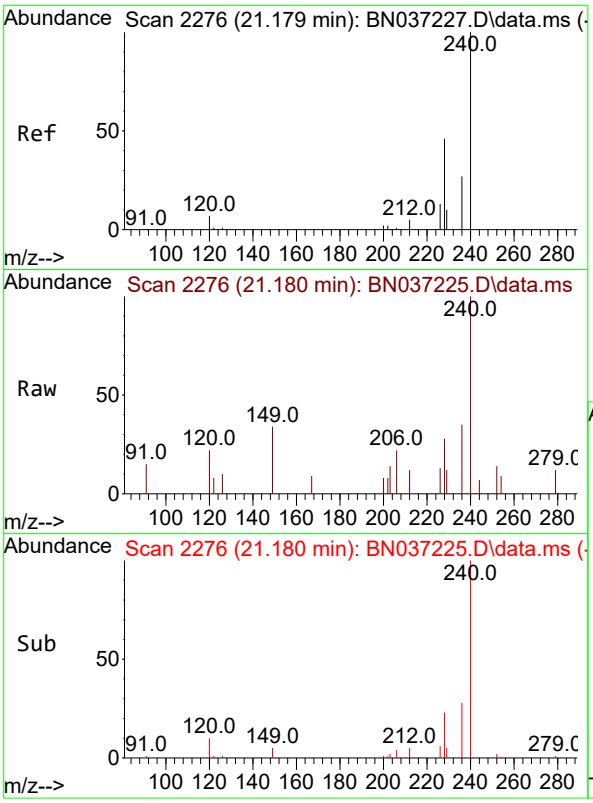


#28
Fluoranthene
Concen: 0.099 ng
RT: 19.049 min Scan# 1939
Delta R.T. 0.005 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion:202 Resp: 704

Ion	Ratio	Lower	Upper
202	100		
101	9.1	7.1	10.7
203	15.9	13.0	19.6

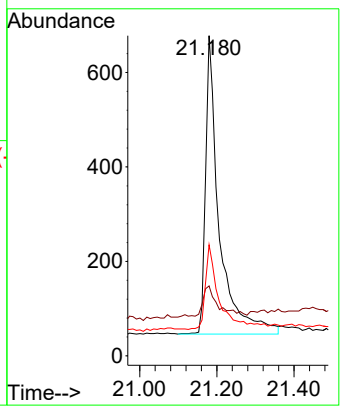




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.180 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion:240 Resp: 154

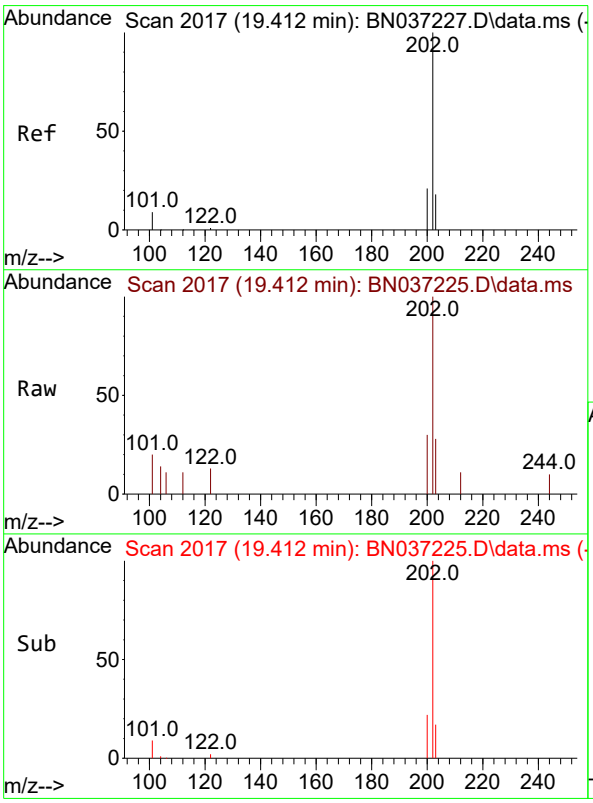
Ion	Ratio	Lower	Upper
240	100		
120	21.8	11.3	16.9
236	34.7	24.4	36.6



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations APPROVED

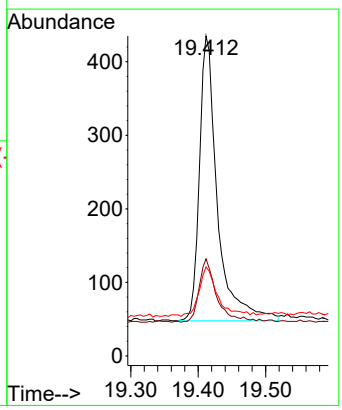
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025

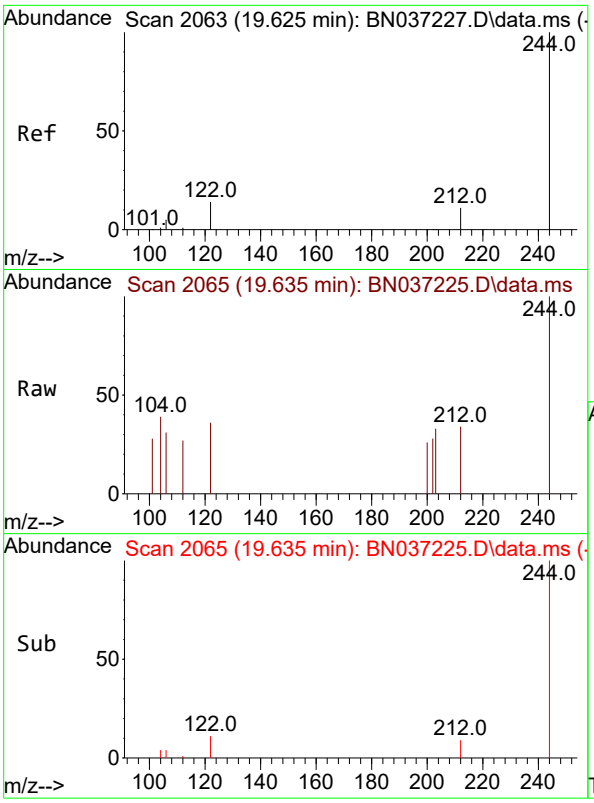


#30
Pyrene
Concen: 0.098 ng
RT: 19.412 min Scan# 2017
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion:202 Resp: 715

Ion	Ratio	Lower	Upper
202	100		
200	21.8	17.2	25.8
203	18.0	14.3	21.5

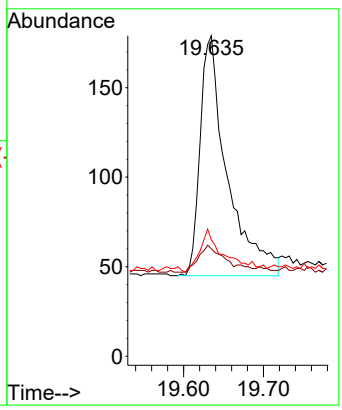




#31
Terphenyl-d14
Concen: 0.090 ng
RT: 19.635 min Scan# 2
Delta R.T. 0.009 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion:244 Resp: 31

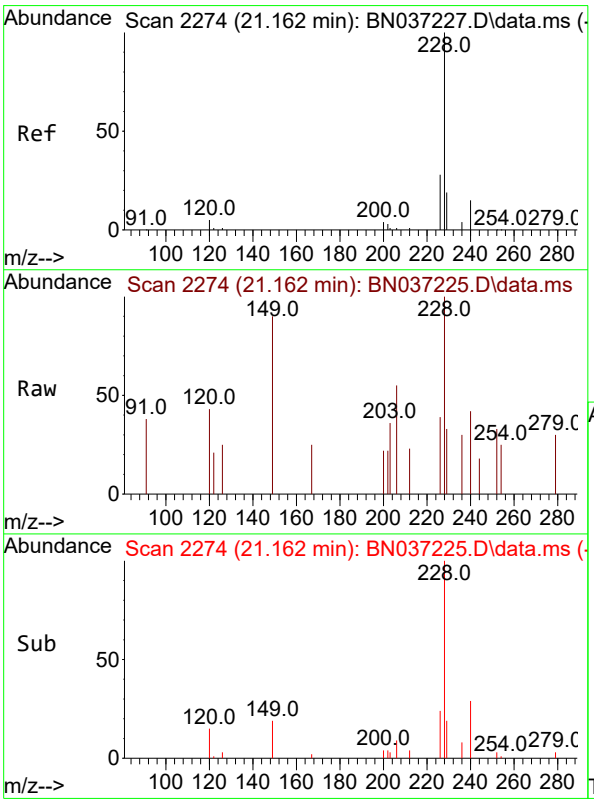
Ion	Ratio	Lower	Upper
244	100		
212	33.5	12.2	18.2#
122	36.3	14.3	21.5#



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations APPROVED

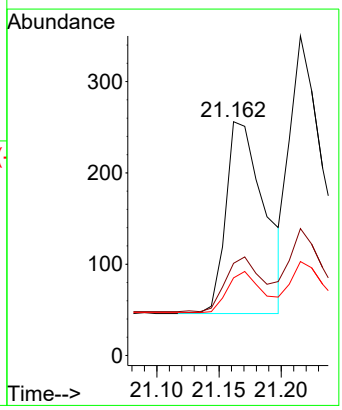
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025

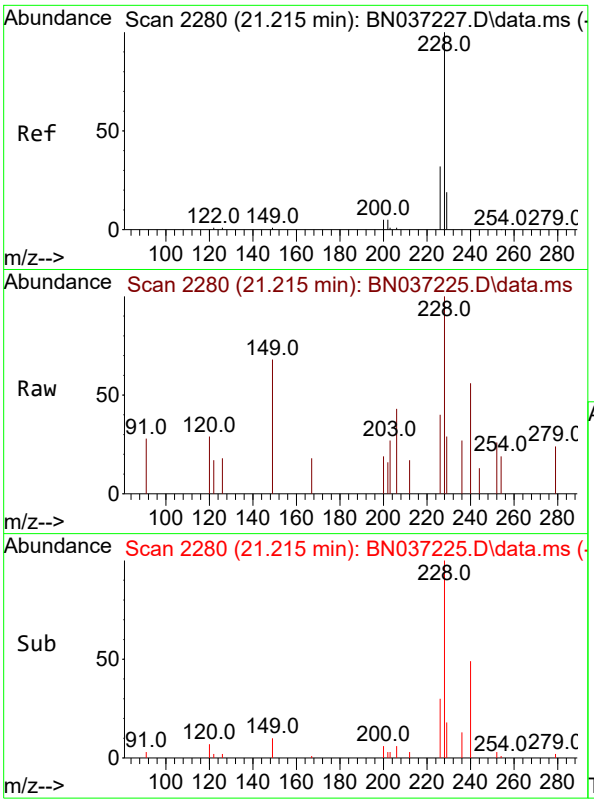


#32
Benzo(a)anthracene
Concen: 0.087 ng
RT: 21.162 min Scan# 2274
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion:228 Resp: 454

Ion	Ratio	Lower	Upper
228	100		
226	39.5	23.8	35.8#
229	33.2	17.0	25.4#

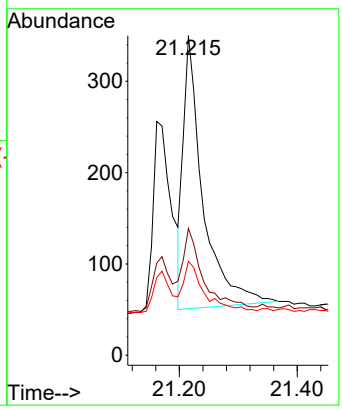




#33
Chrysene
Concen: 0.106 ng
RT: 21.215 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion:228 Resp: 68

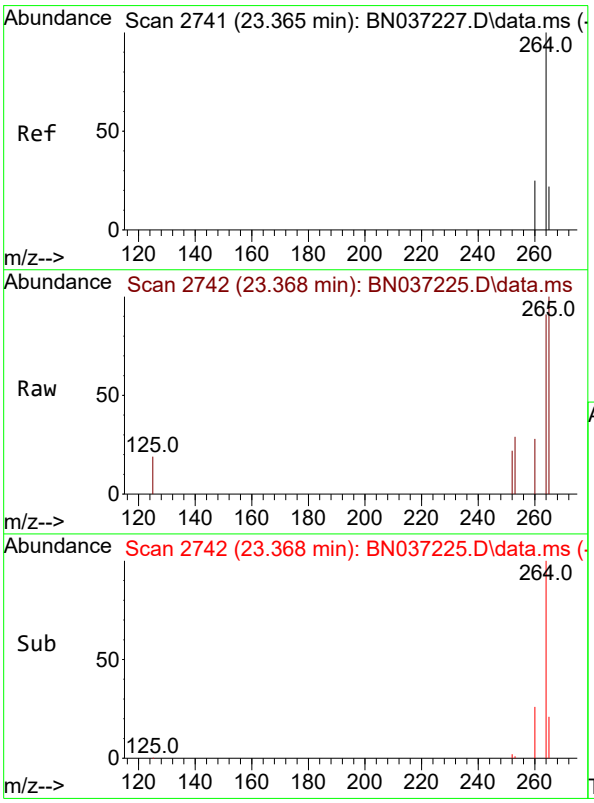
Ion	Ratio	Lower	Upper
228	100		
226	39.7	25.8	38.6#
229	29.4	17.0	25.4#



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations APPROVED

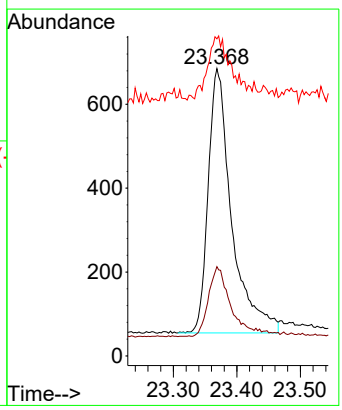
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025

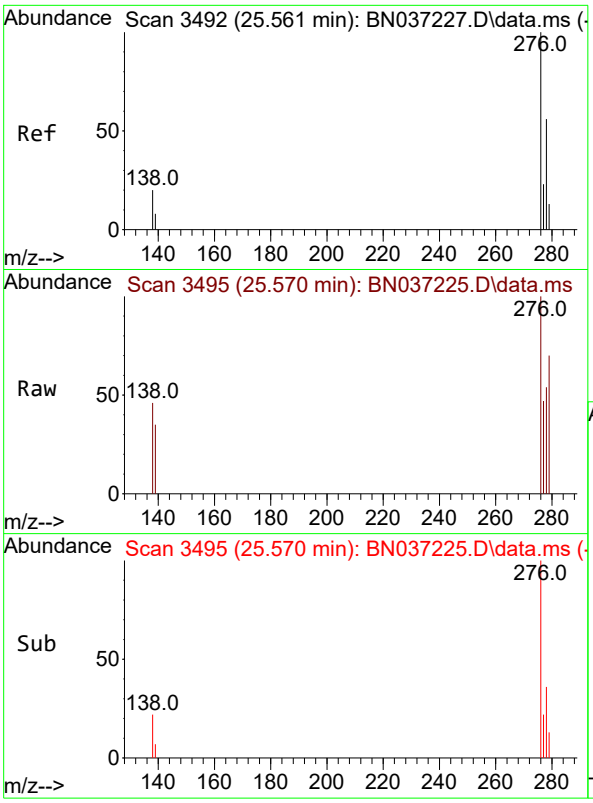


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.368 min Scan# 2742
Delta R.T. 0.003 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion:264 Resp: 1617

Ion	Ratio	Lower	Upper
264	100		
260	31.1	22.8	34.2
265	110.4	66.4	99.6#





#36
Indeno(1,2,3-cd)pyrene
Concen: 0.093 ng
RT: 25.570 min Scan# 34
Delta R.T. 0.009 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

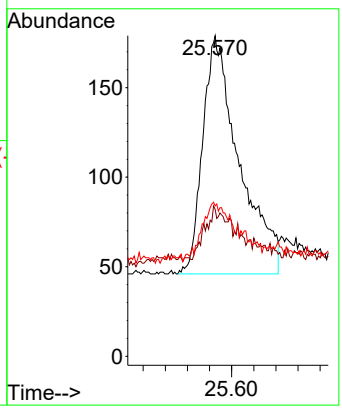
Tgt Ion:276 Resp: 609

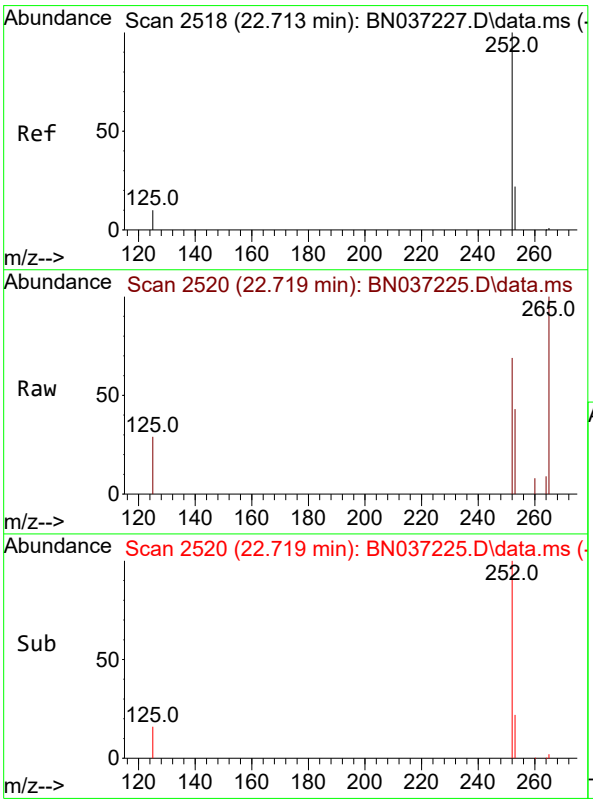
Ion	Ratio	Lower	Upper
276	100		
138	1.3	16.8	25.2#
277	18.6	19.5	29.3#

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025

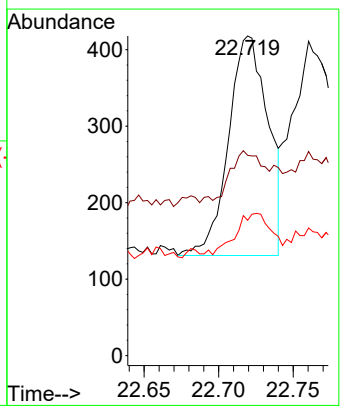


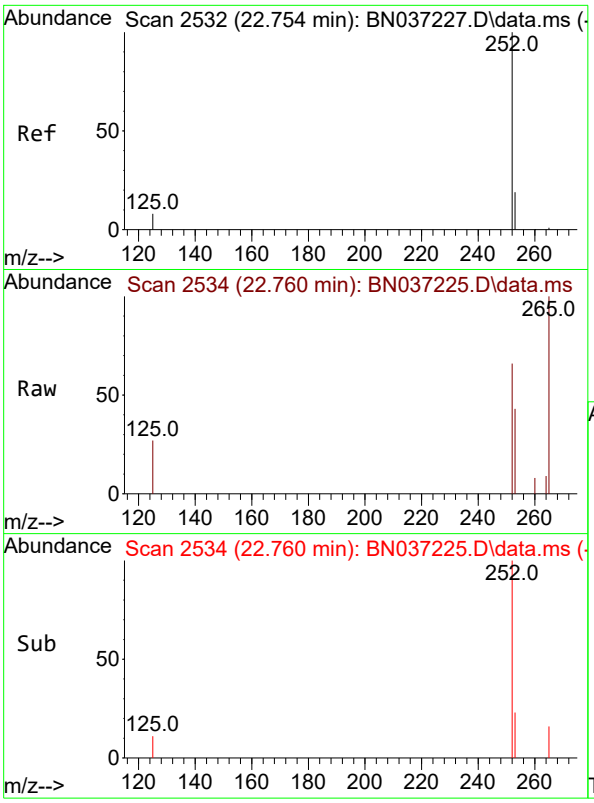


#37
Benzo(b)fluoranthene
Concen: 0.089 ng
RT: 22.719 min Scan# 2520
Delta R.T. 0.006 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion:252 Resp: 529

Ion	Ratio	Lower	Upper
252	100		
253	62.7	24.9	37.3#
125	42.3	12.9	19.3#

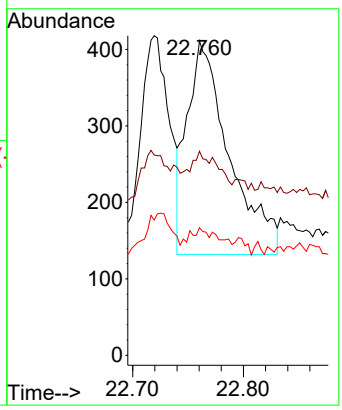




#38
Benzo(k)fluoranthene
Concen: 0.109 ng m
RT: 22.760 min Scan# 2
Delta R.T. 0.006 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion:252 Resp: 74

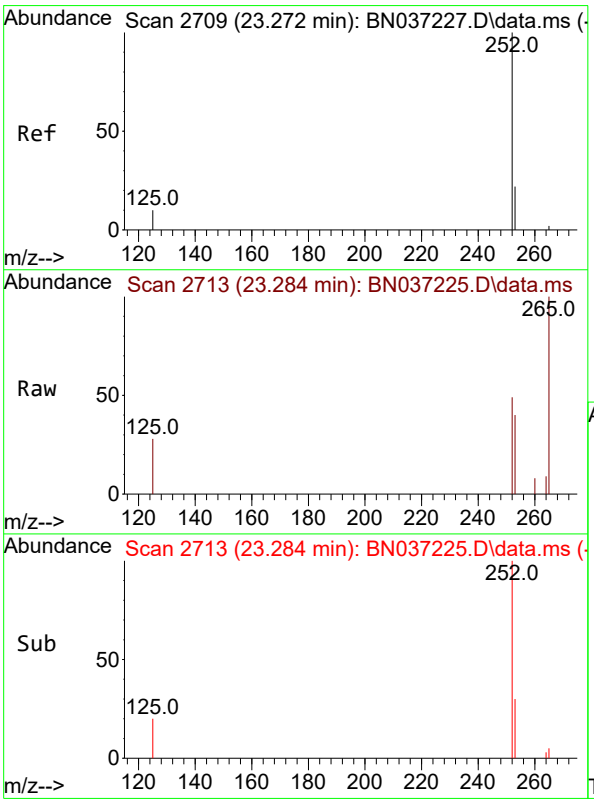
Ion	Ratio	Lower	Upper
252	100		
253	65.0	24.6	37.0#
125	40.6	13.4	20.2#



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations APPROVED

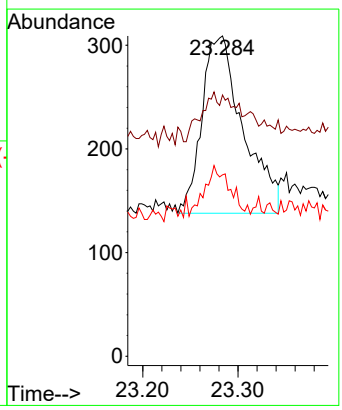
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025

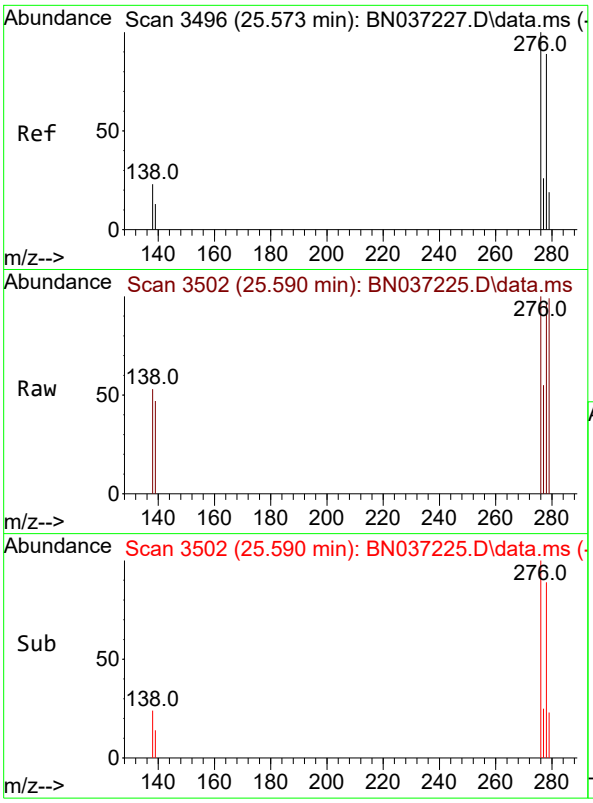


#39
Benzo(a)pyrene
Concen: 0.097 ng
RT: 23.284 min Scan# 2713
Delta R.T. 0.012 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion:252 Resp: 514

Ion	Ratio	Lower	Upper
252	100		
253	81.6	29.4	44.2#
125	56.6	16.2	24.2#

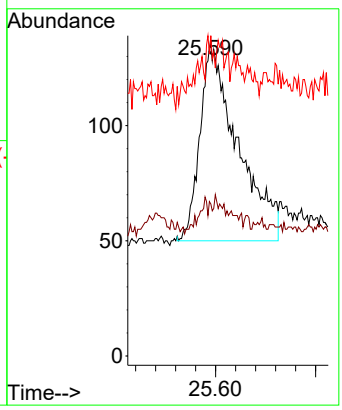




#40
Dibenzo(a,h)anthracene
Concen: 0.091 ng m
RT: 25.590 min Scan# 3
Delta R.T. 0.018 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion:278 Resp: 44

Ion	Ratio	Lower	Upper
278	100		
139	48.9	17.8	26.6#
279	103.0	31.3	46.9#



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 06/16/2025
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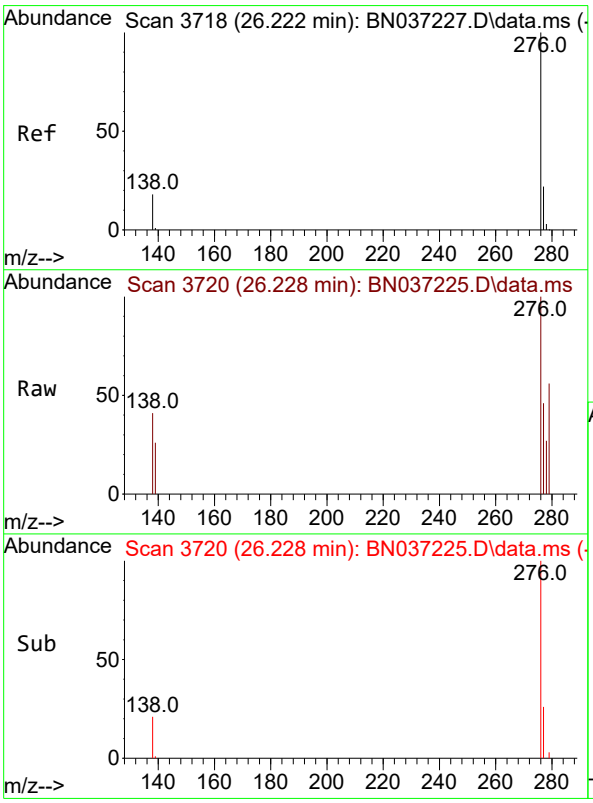
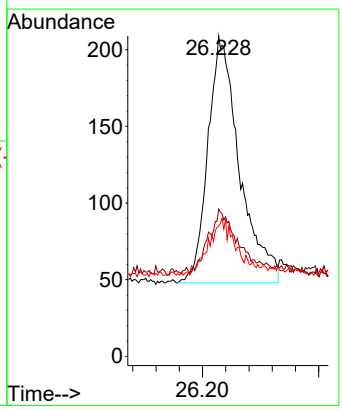


#41
Benzo(g,h,i)perylene
Concen: 0.101 ng
RT: 26.228 min Scan# 3720
Delta R.T. 0.006 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion:276 Resp: 608

Ion	Ratio	Lower	Upper
276	100		
277	45.9	22.0	33.0#
138	40.7	18.4	27.6#



Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037226.D
Acq On : 13 Jun 2025 14:10
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Quant Time: Jun 13 18:36:48 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:34:15 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.582	152	914	0.400	ng		0.00
7) Naphthalene-d8	10.361	136	2268	0.400	ng		# 0.00
13) Acenaphthene-d10	14.224	164	1246	0.400	ng		0.00
19) Phenanthrene-d10	16.984	188	2198	0.400	ng		# 0.01
29) Chrysene-d12	21.179	240	1908	0.400	ng		0.00
35) Perylene-d12	23.365	264	2012	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.177	112	469	0.209	ng		0.00
5) Phenol-d6	6.759	99	428	0.181	ng		0.00
8) Nitrobenzene-d5	8.739	82	345	0.154	ng		0.01
11) 2-Methylnaphthalene-d10	11.960	152	571	0.188	ng		0.00
14) 2,4,6-Tribromophenol	15.730	330	91	0.176	ng		0.00
15) 2-Fluorobiphenyl	12.853	172	953	0.182	ng		0.00
27) Fluoranthene-d10	19.017	212	1179	0.205	ng		0.00
31) Terphenyl-d14	19.625	244	806	0.187	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.104	88	312	0.249	ng		92
3) n-Nitrosodimethylamine	3.429	42	620	0.217	ng	#	95
6) bis(2-Chloroethyl)ether	7.011	93	324	0.153	ng		95
9) Naphthalene	10.404	128	1307	0.199	ng	#	88
10) Hexachlorobutadiene	10.692	225	329	0.206	ng	#	94
12) 2-Methylnaphthalene	12.036	142	719	0.180	ng		92
16) Acenaphthylene	13.946	152	1165	0.191	ng		98
17) Acenaphthene	14.288	154	753	0.191	ng		98
18) Fluorene	15.282	166	940	0.186	ng		98
20) 4,6-Dinitro-2-methylph...	15.389	198	81	0.257	ng	#	60
21) 4-Bromophenyl-phenylether	16.177	248	273	0.191	ng		98
22) Hexachlorobenzene	16.289	284	350	0.211	ng		99
23) Atrazine	16.462	200	252	0.197	ng	#	78
24) Pentachlorophenol	16.636	266	153	0.188	ng		90
25) Phenanthrene	17.021	178	1346	0.193	ng		99
26) Anthracene	17.108	178	1186	0.186	ng		98
28) Fluoranthene	19.045	202	1657	0.203	ng		97
30) Pyrene	19.412	202	1660	0.185	ng		99
32) Benzo(a)anthracene	21.162	228	1149	0.178	ng		93
33) Chrysene	21.215	228	1643	0.205	ng		94
34) Bis(2-ethylhexyl)phtha...	21.108	149	1053	0.219	ng		98
36) Indeno(1,2,3-cd)pyrene	25.564	276	1512	0.186	ng		97
37) Benzo(b)fluoranthene	22.713	252	1296	0.176	ng	#	85
38) Benzo(k)fluoranthene	22.757	252	1512	0.179	ng	#	81
39) Benzo(a)pyrene	23.275	252	1215	0.184	ng	#	71
40) Dibenzo(a,h)anthracene	25.576	278	1109	0.181	ng	#	76
41) Benzo(g,h,i)perylene	26.225	276	1469	0.195	ng	#	88

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037226.D
Acq On : 13 Jun 2025 14:10
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Quant Time: Jun 13 18:36:48 2025
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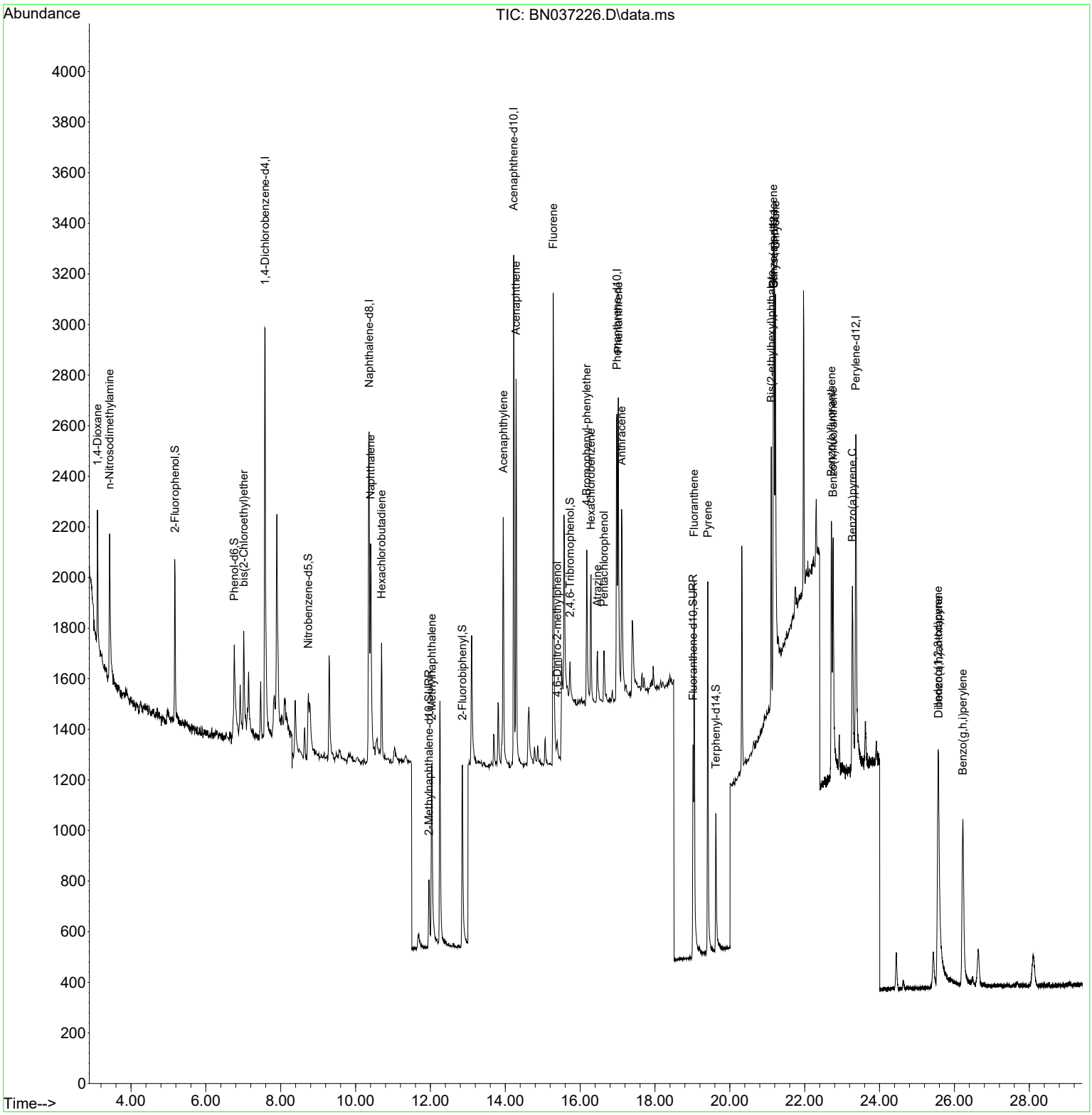
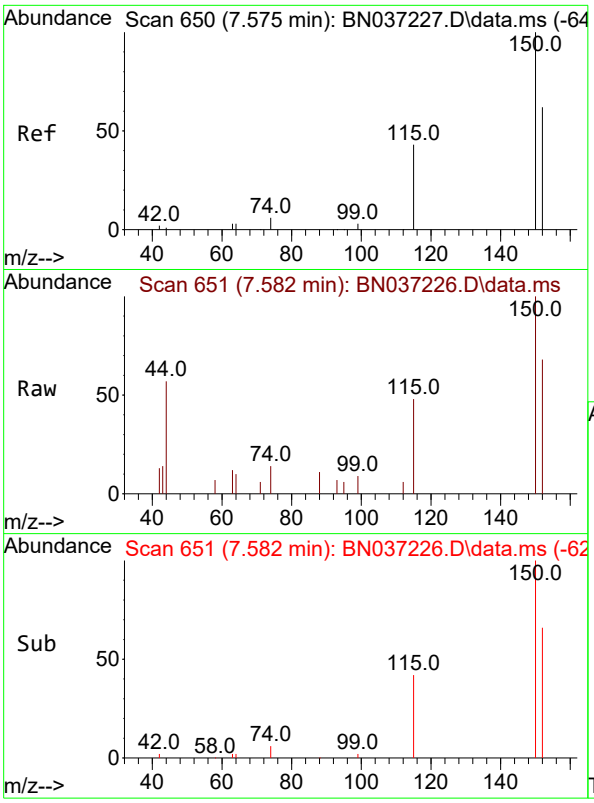
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:34:15 2025
Response via : Initial Calibration



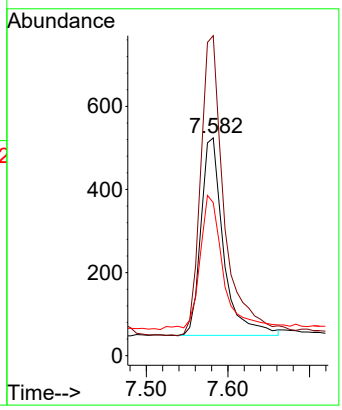


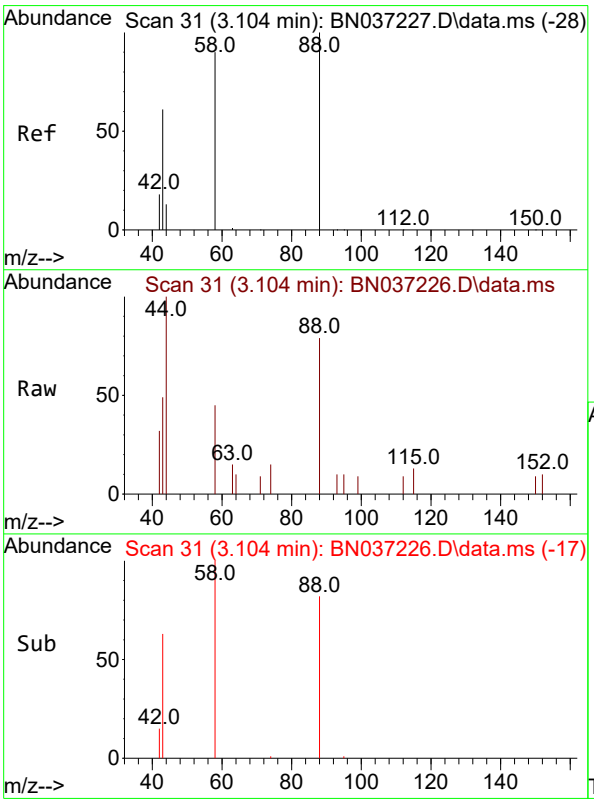
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.582 min Scan# 6
Delta R.T. 0.007 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:152 Resp: 914

Ion	Ratio	Lower	Upper
152	100		
150	146.9	125.2	187.8
115	70.2	58.4	87.6

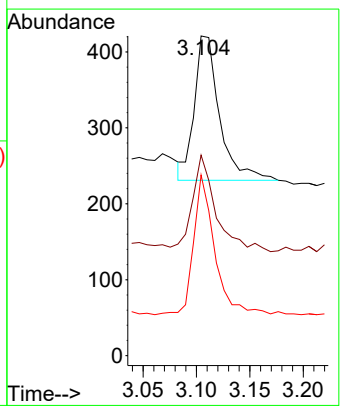


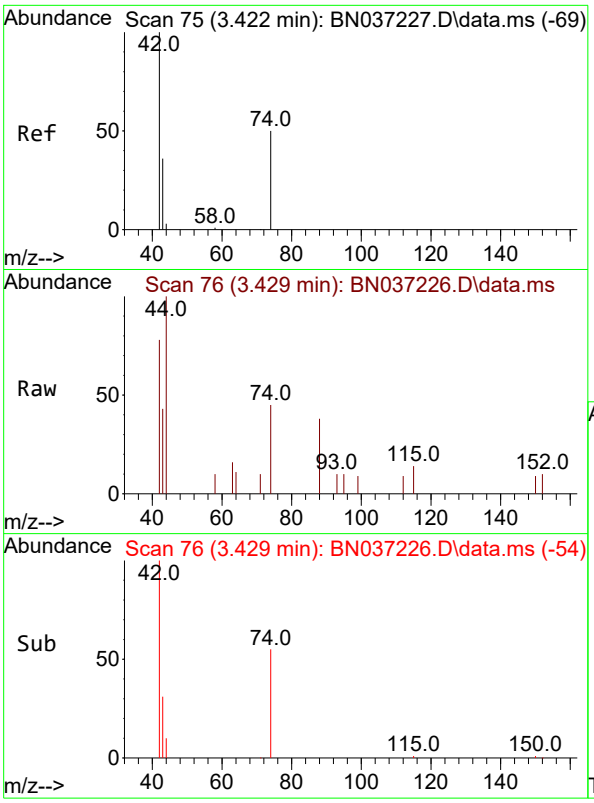


#2
1,4-Dioxane
Concen: 0.249 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

Tgt Ion: 88 Resp: 312

Ion	Ratio	Lower	Upper
88	100		
43	63.1	52.6	79.0
58	80.8	73.5	110.3



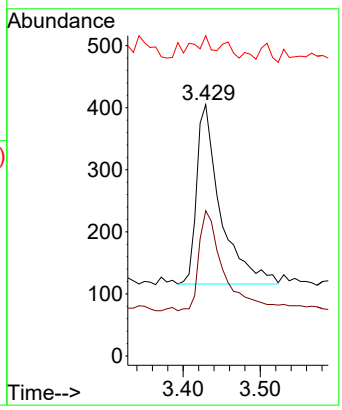


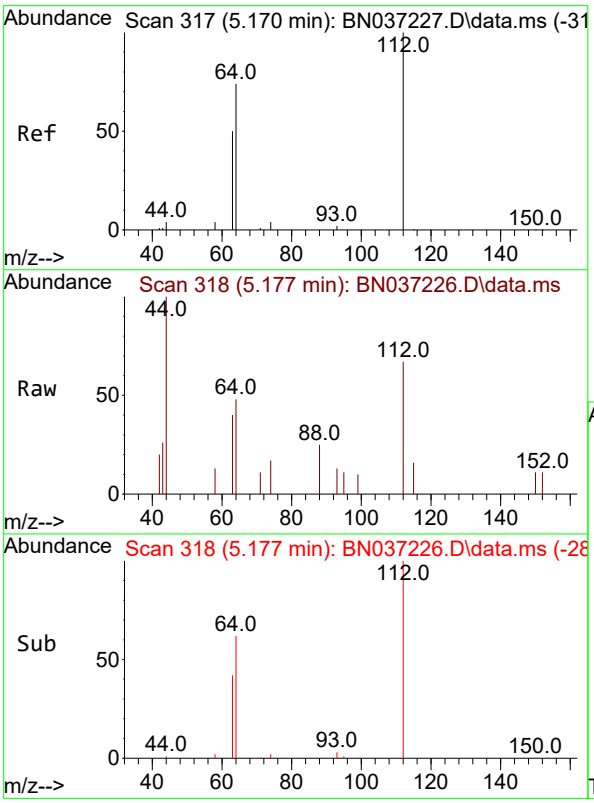
#3
n-Nitrosodimethylamine
Concen: 0.217 ng
RT: 3.429 min Scan# 7
Delta R.T. 0.007 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion: 42 Resp: 620

Ion	Ratio	Lower	Upper
42	100		
74	58.5	44.6	66.8
44	0.0	3.5	5.3#

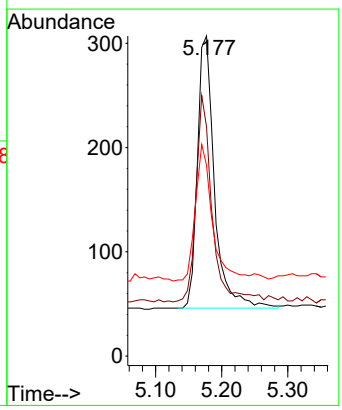


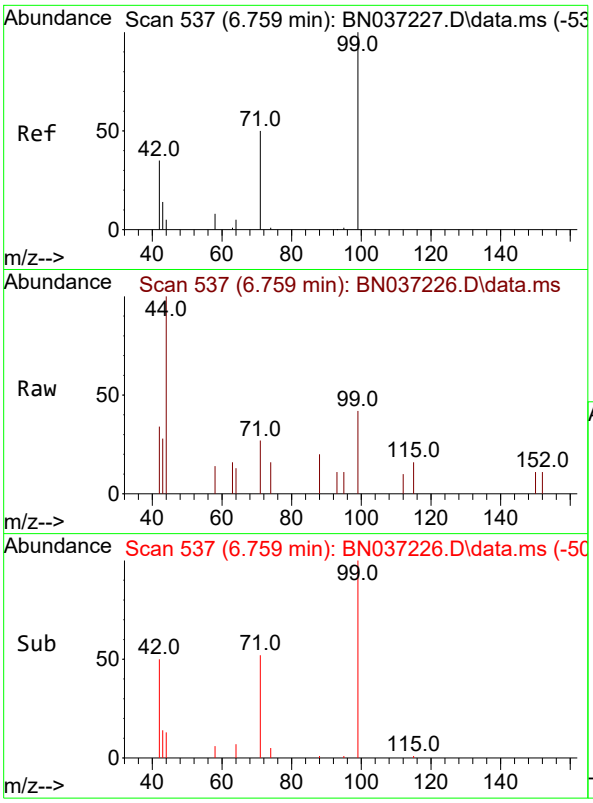


#4
2-Fluorophenol
Concen: 0.209 ng
RT: 5.177 min Scan# 318
Delta R.T. 0.007 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

Tgt Ion:112 Resp: 469

Ion	Ratio	Lower	Upper
112	100		
64	71.4	57.2	85.8
63	49.9	39.8	59.6



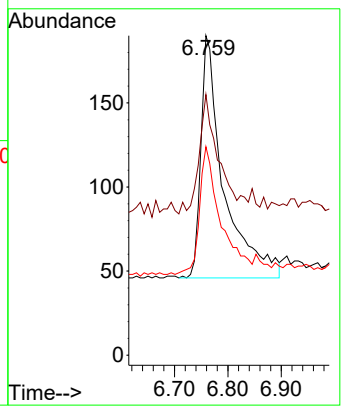


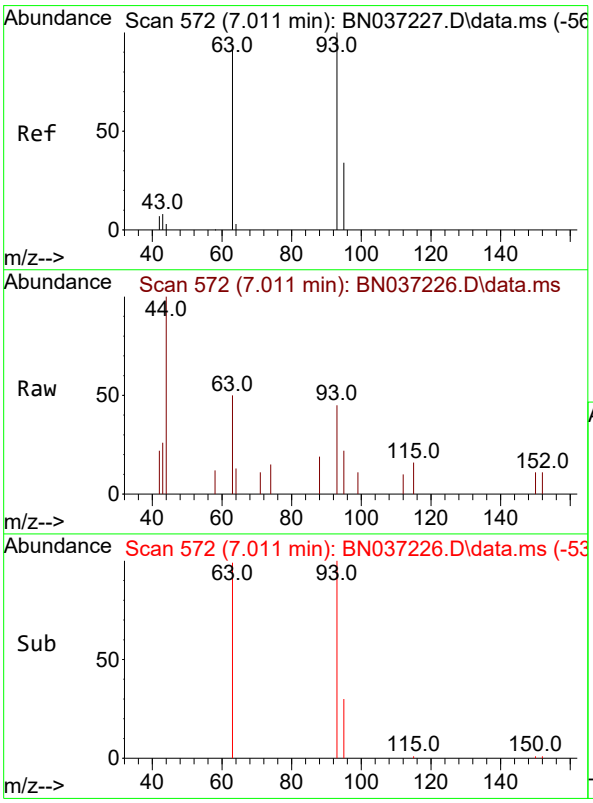
#5
Phenol-d6
Concen: 0.181 ng
RT: 6.759 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion: 99 Resp: 428

Ion	Ratio	Lower	Upper
99	100		
42	42.8	36.2	54.4
71	48.6	42.4	63.6

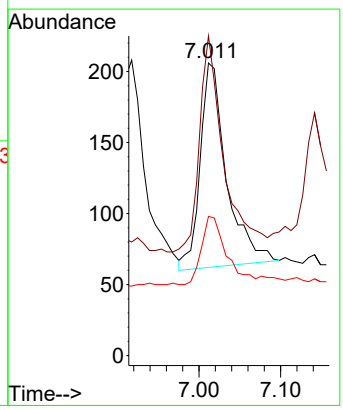


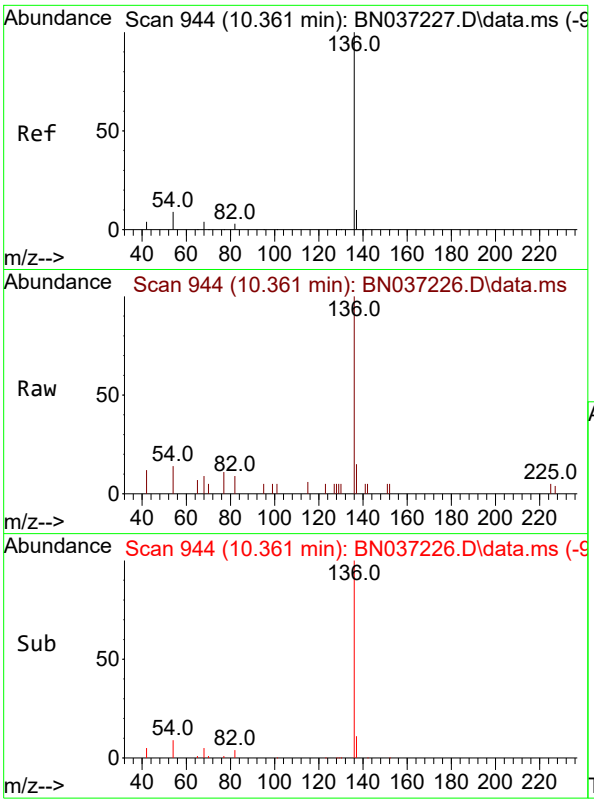


#6
bis(2-Chloroethyl)ether
Concen: 0.153 ng
RT: 7.011 min Scan# 572
Delta R.T. 0.000 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

Tgt Ion: 93 Resp: 324

Ion	Ratio	Lower	Upper
93	100		
63	98.1	75.2	112.8
95	31.5	28.3	42.5



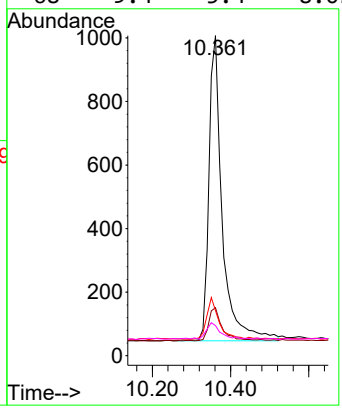


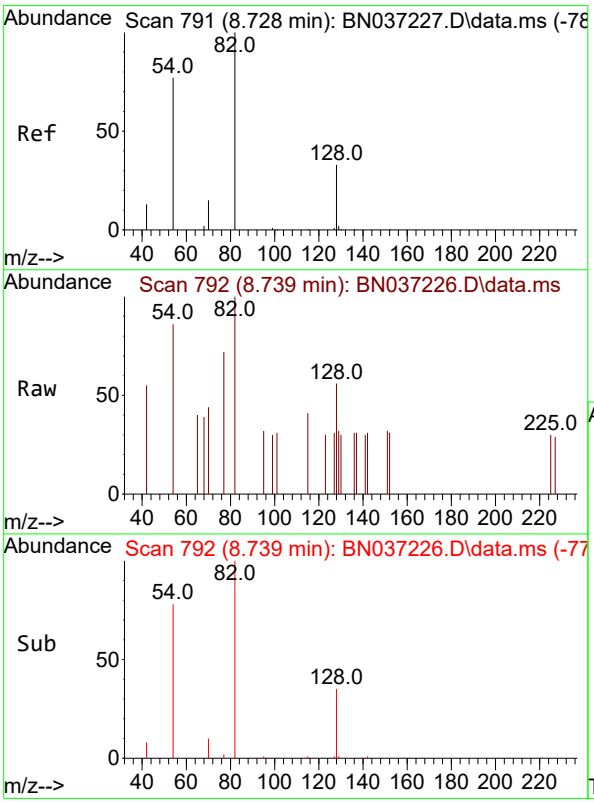
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.361 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:136 Resp: 2268

Ion	Ratio	Lower	Upper
136	100		
137	15.0	10.6	15.8
54	14.1	9.2	13.8#
68	9.4	5.4	8.0#

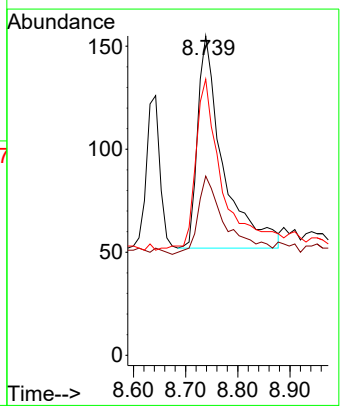


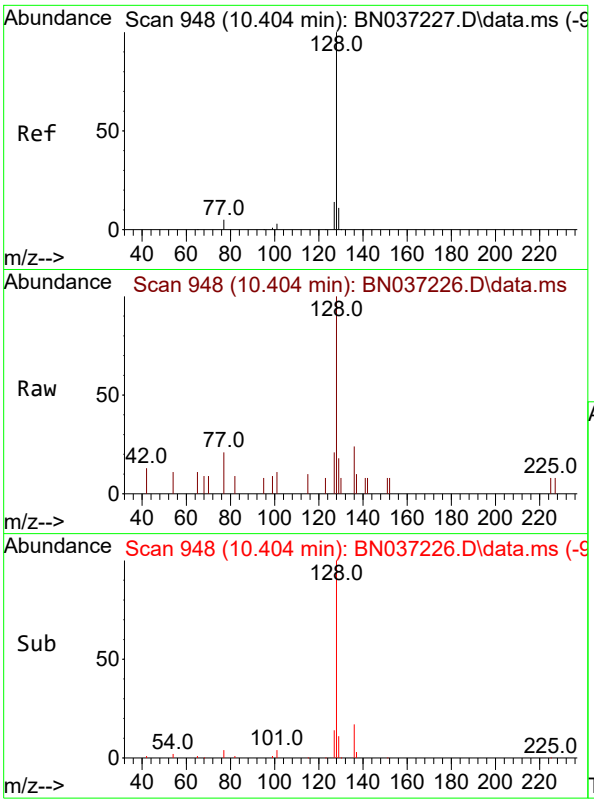


#8
Nitrobenzene-d5
Concen: 0.154 ng
RT: 8.739 min Scan# 792
Delta R.T. 0.011 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

Tgt Ion: 82 Resp: 345

Ion	Ratio	Lower	Upper
82	100		
128	56.1	31.2	46.8#
54	86.5	63.3	94.9



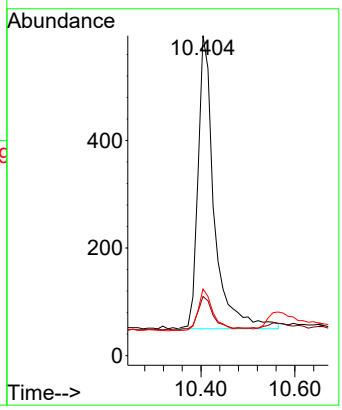


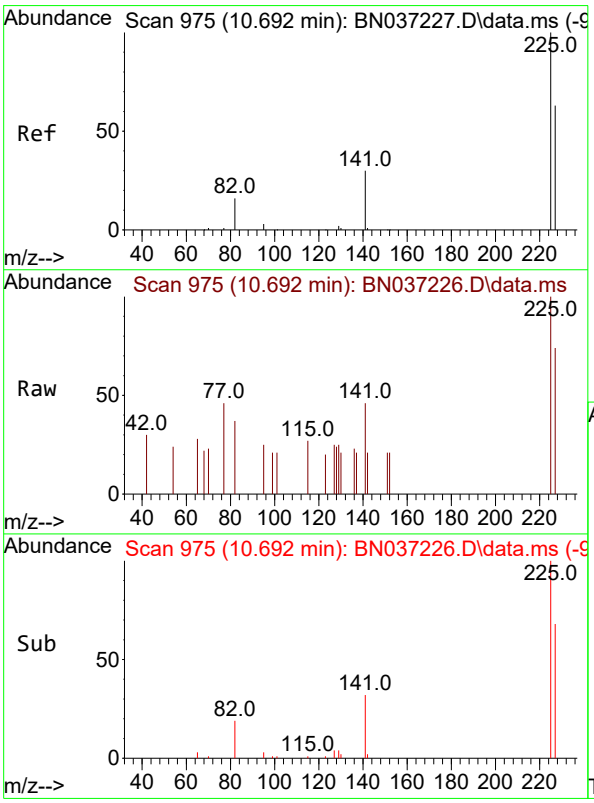
#9
Naphthalene
Concen: 0.199 ng
RT: 10.404 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:128 Resp: 1307

Ion	Ratio	Lower	Upper
128	100		
129	18.5	10.7	16.1#
127	20.8	12.6	19.0#

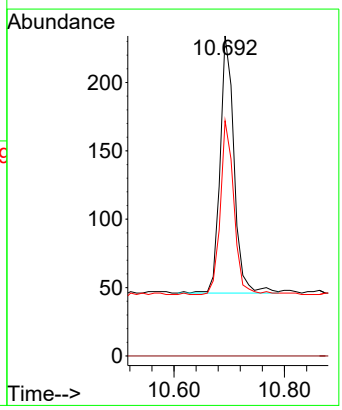


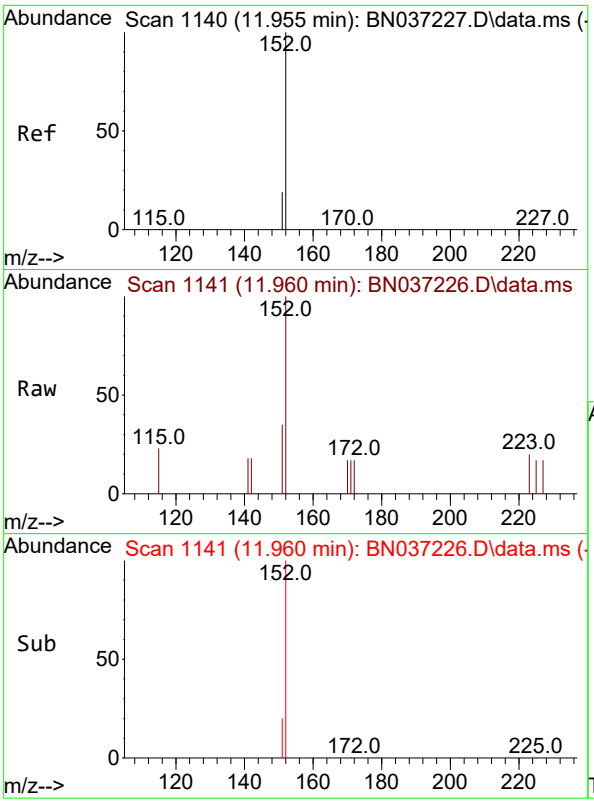


#10
Hexachlorobutadiene
Concen: 0.206 ng
RT: 10.692 min Scan# 975
Delta R.T. 0.000 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

Tgt Ion:225 Resp: 329

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	66.3	49.2	73.8



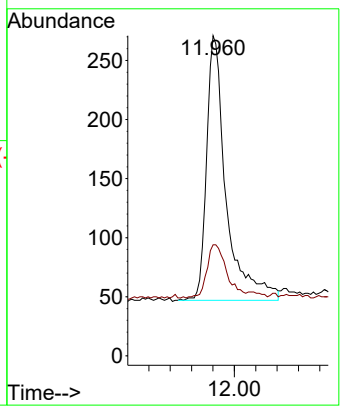


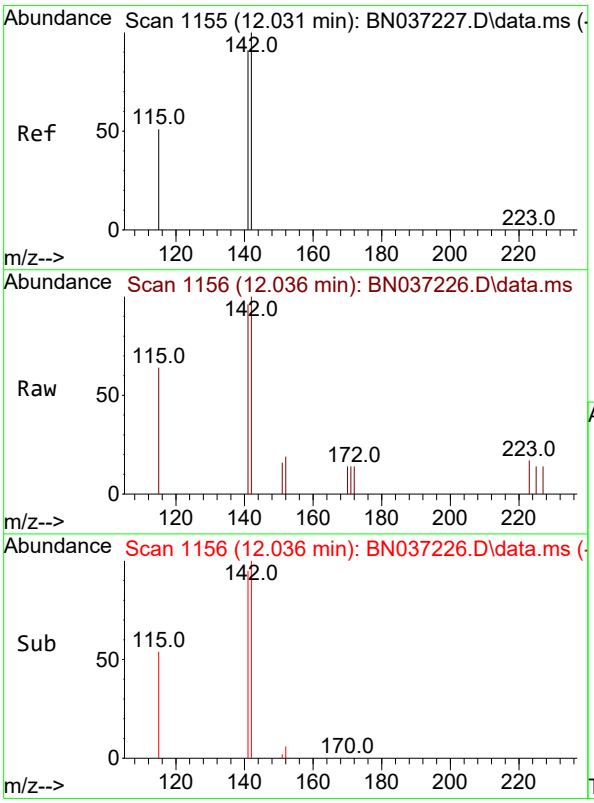
#11
2-Methylnaphthalene-d10
Concen: 0.188 ng
RT: 11.960 min Scan# 11
Delta R.T. 0.005 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:152 Resp: 571

Ion	Ratio	Lower	Upper
152	100		
151	20.5	17.9	26.9

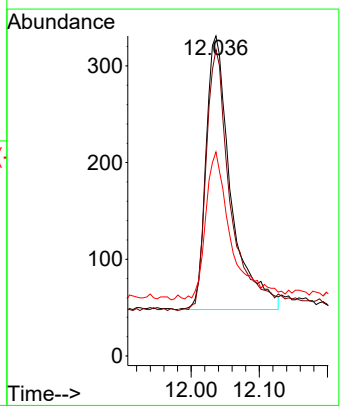


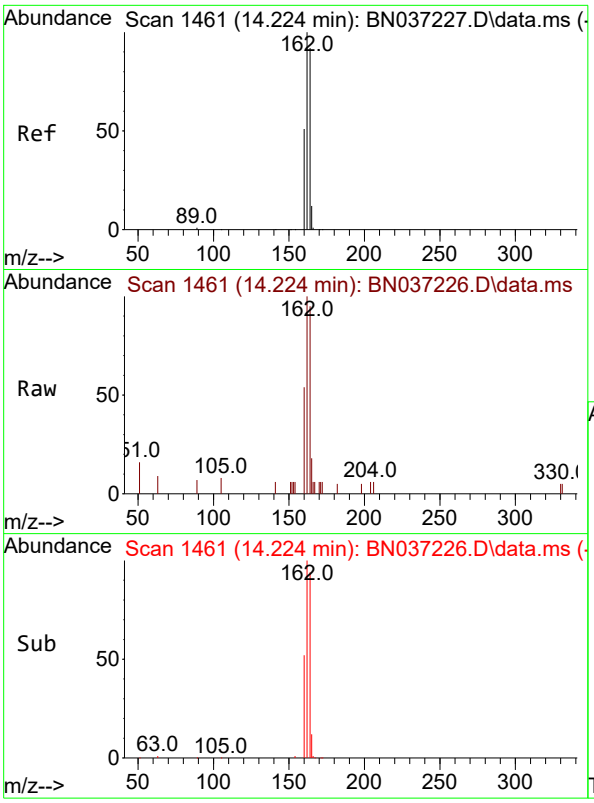


#12
2-Methylnaphthalene
Concen: 0.180 ng
RT: 12.036 min Scan# 1156
Delta R.T. 0.005 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

Tgt Ion:142 Resp: 719

Ion	Ratio	Lower	Upper
142	100		
141	95.8	73.0	109.6
115	63.7	43.3	64.9



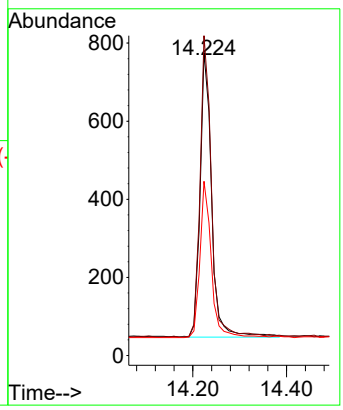


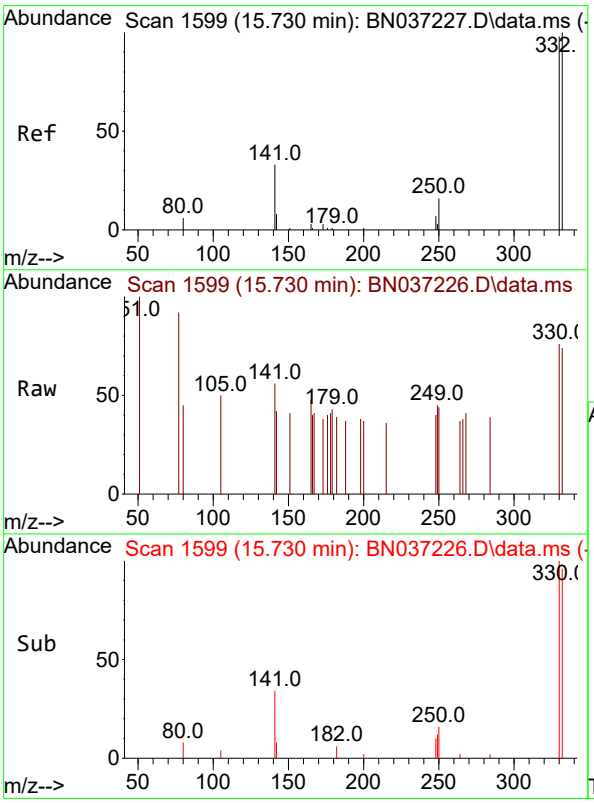
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:164 Resp: 1246

Ion	Ratio	Lower	Upper
164	100		
162	105.5	86.7	130.1
160	57.5	45.8	68.6

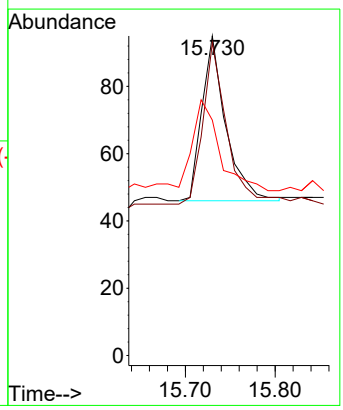


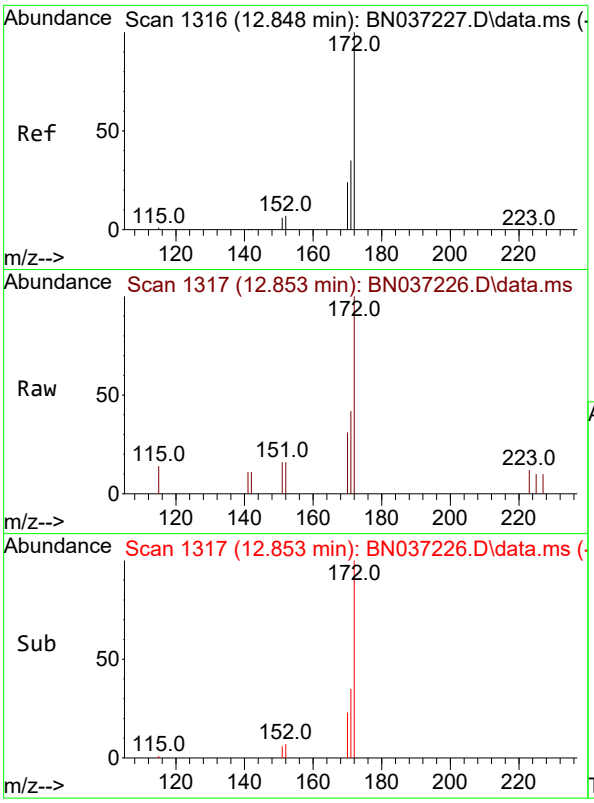


#14
2,4,6-Tribromophenol
Concen: 0.176 ng
RT: 15.730 min Scan# 1599
Delta R.T. 0.000 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

Tgt Ion:330 Resp: 91

Ion	Ratio	Lower	Upper
330	100		
332	101.1	74.9	112.3
141	62.6	45.1	67.7



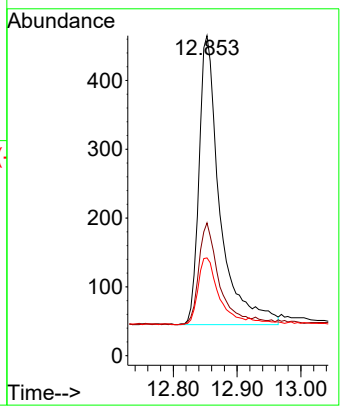


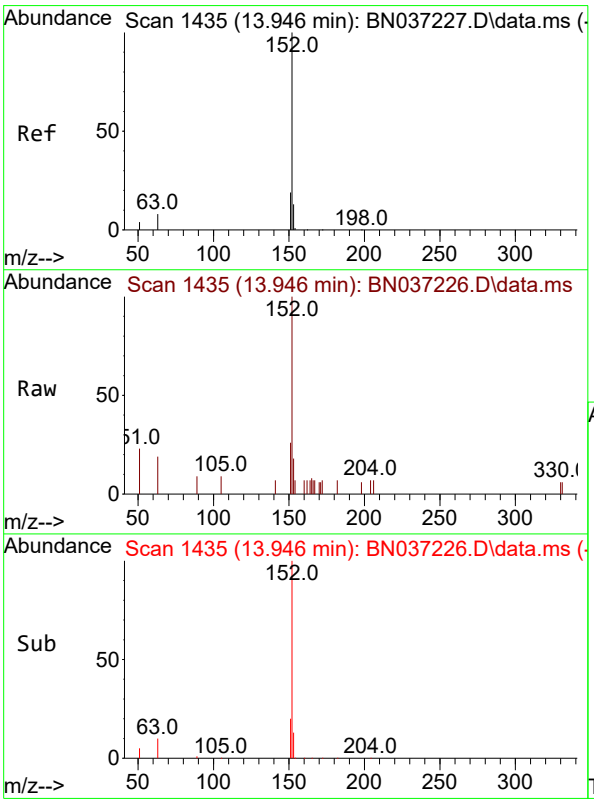
#15
2-Fluorobiphenyl
Concen: 0.182 ng
RT: 12.853 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:172 Resp: 953

Ion	Ratio	Lower	Upper
172	100		
171	41.5	29.8	44.8
170	30.5	21.1	31.7

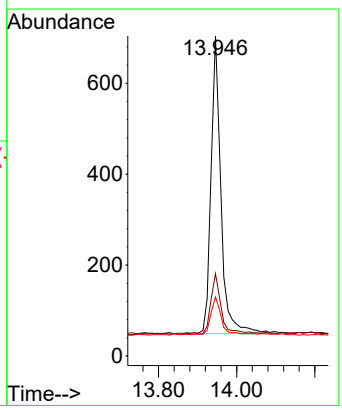


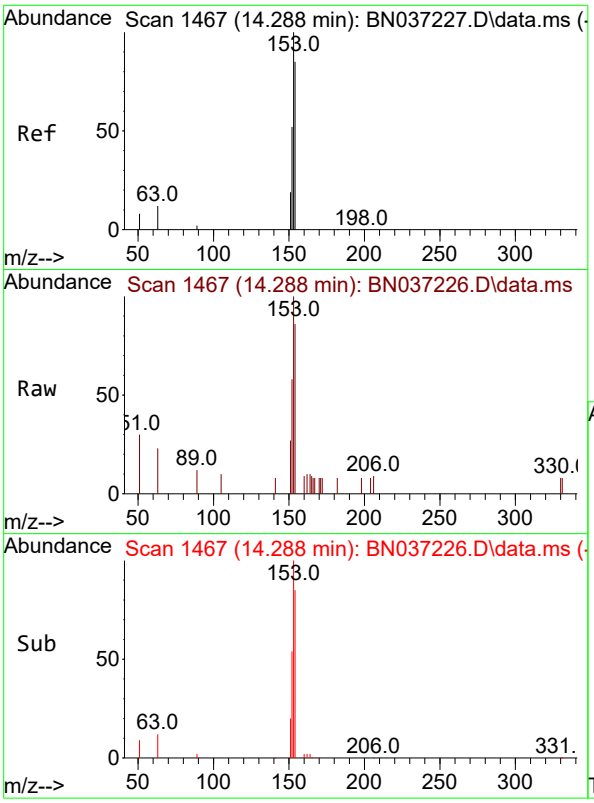


#16
Acenaphthylene
Concen: 0.191 ng
RT: 13.946 min Scan# 1435
Delta R.T. 0.000 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

Tgt Ion:152 Resp: 1165

Ion	Ratio	Lower	Upper
152	100		
151	20.6	15.7	23.5
153	13.7	10.7	16.1



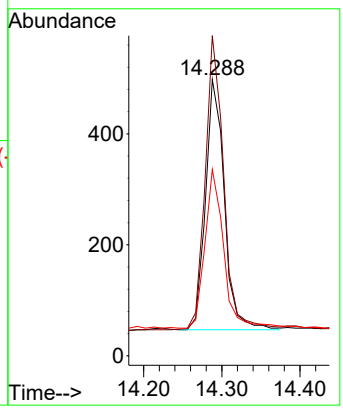


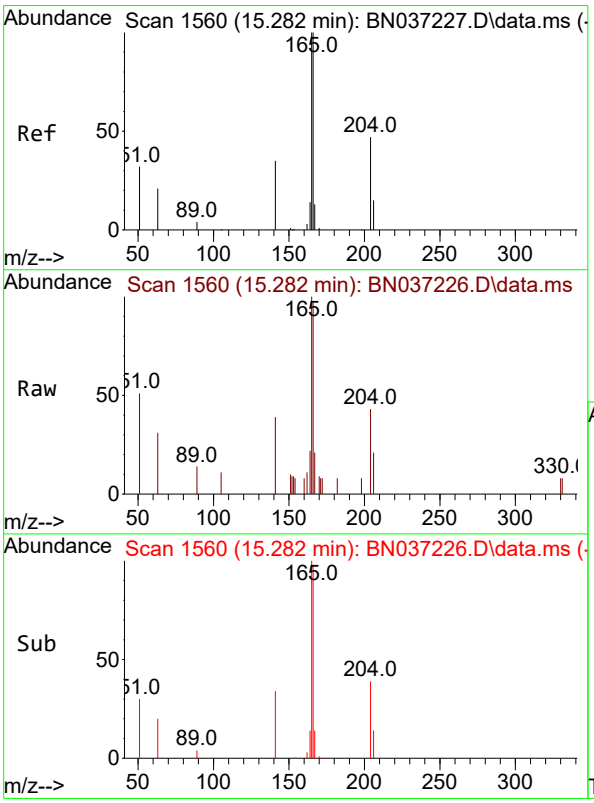
#17
Acenaphthene
Concen: 0.191 ng
RT: 14.288 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:154 Resp: 753

Ion	Ratio	Lower	Upper
154	100		
153	117.3	94.6	141.8
152	65.2	49.6	74.4

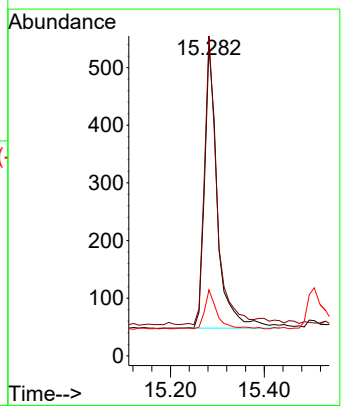


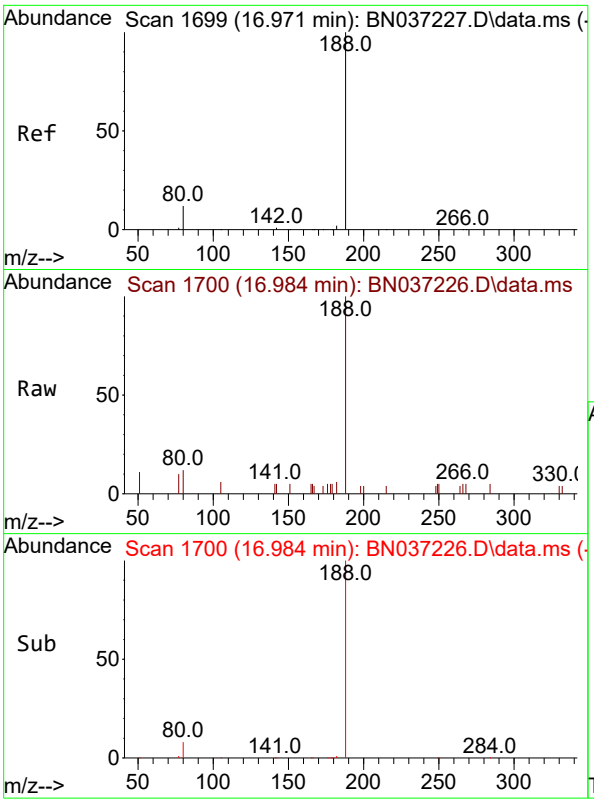


#18
Fluorene
Concen: 0.186 ng
RT: 15.282 min Scan# 1560
Delta R.T. 0.000 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

Tgt Ion:166 Resp: 940

Ion	Ratio	Lower	Upper
166	100		
165	97.9	79.8	119.6
167	13.6	10.8	16.2



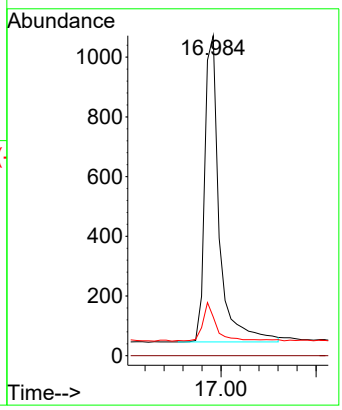


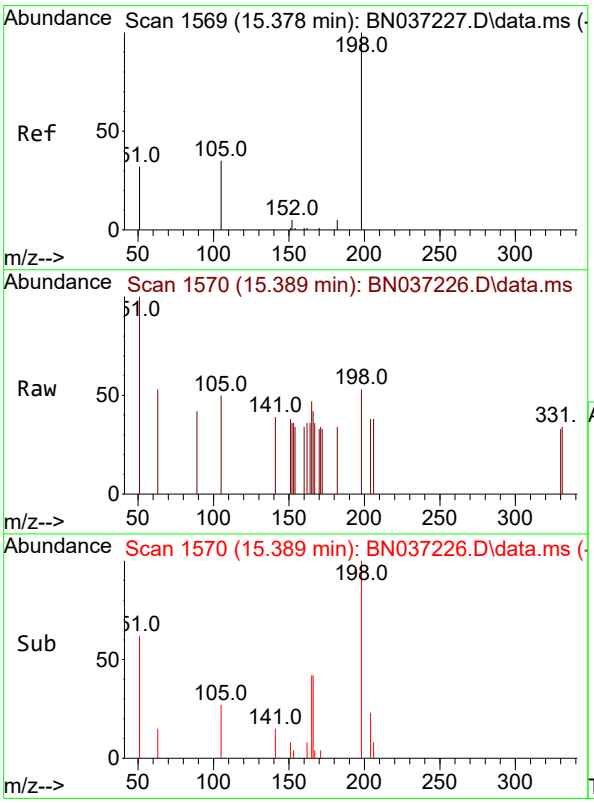
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.984 min Scan# 1
Delta R.T. 0.012 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:188 Resp: 2198

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.1	12.2	18.4#

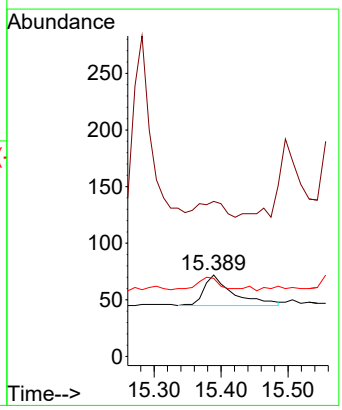


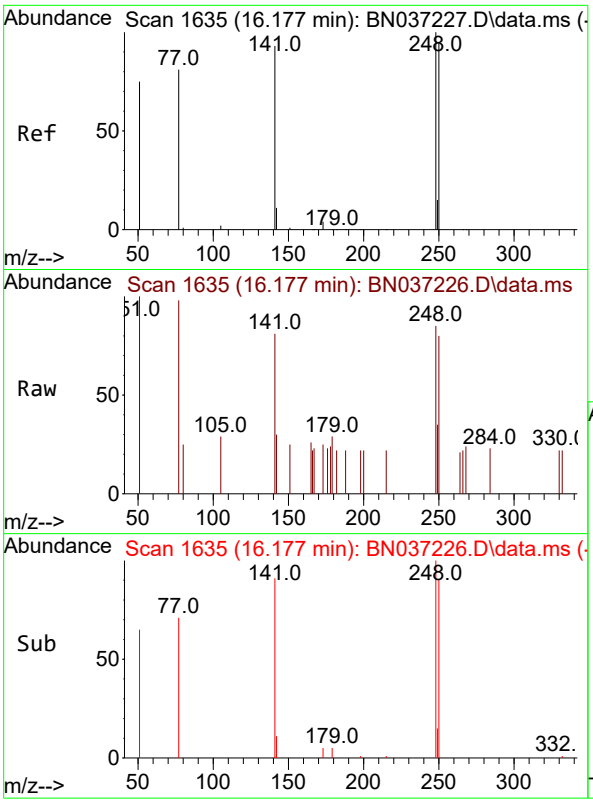


#20
4,6-Dinitro-2-methylphenol
Concen: 0.257 ng
RT: 15.389 min Scan# 1570
Delta R.T. 0.011 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

Tgt Ion:198 Resp: 81

Ion	Ratio	Lower	Upper
198	100		
51	190.3	111.2	166.8#
105	95.8	54.0	81.0#



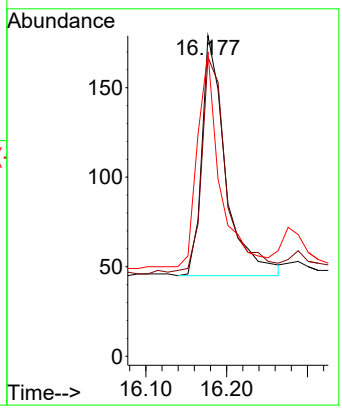


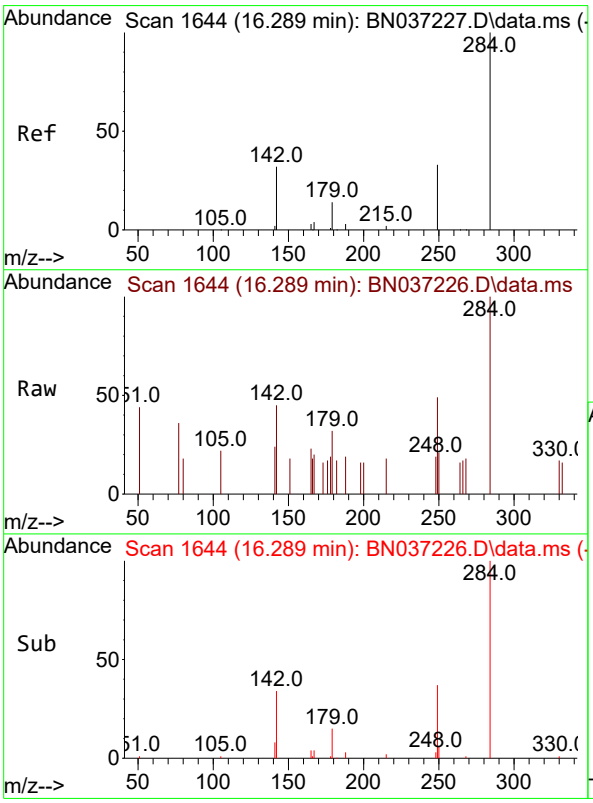
#21
4-Bromophenyl-phenylether
Concen: 0.191 ng
RT: 16.177 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:248 Resp: 273

Ion	Ratio	Lower	Upper
248	100		
250	93.3	76.8	115.2
141	95.0	75.6	113.4

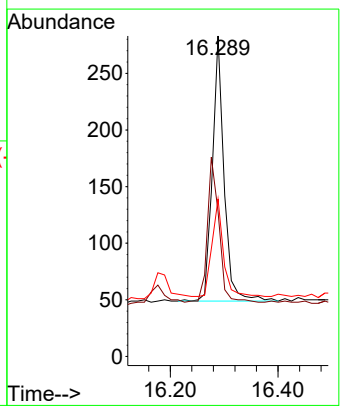


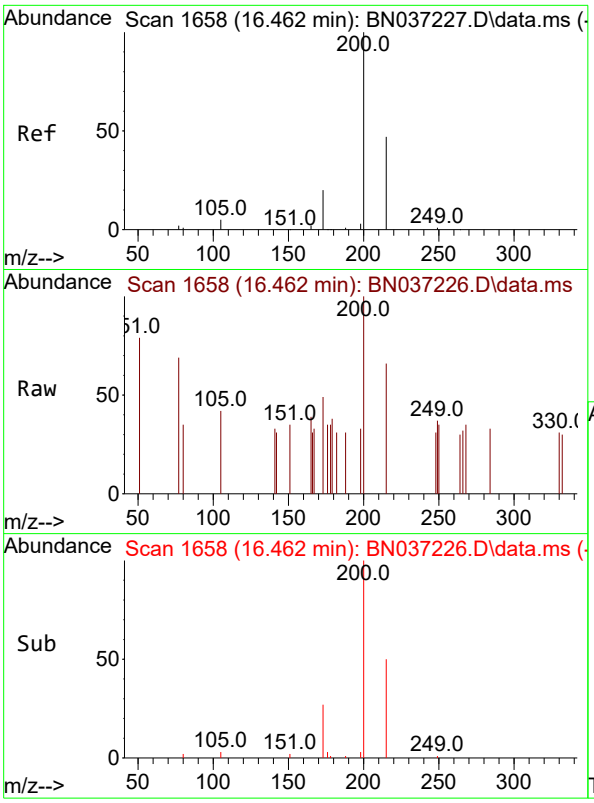


#22
Hexachlorobenzene
Concen: 0.211 ng
RT: 16.289 min Scan# 1644
Delta R.T. 0.000 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

Tgt Ion:284 Resp: 350

Ion	Ratio	Lower	Upper
284	100		
142	55.1	43.8	65.6
249	36.9	28.4	42.6



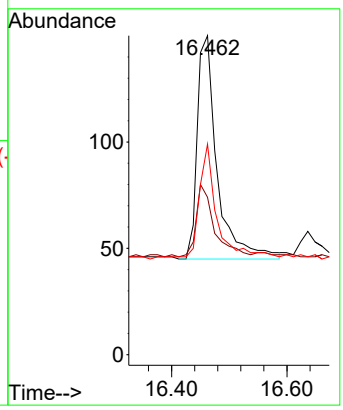


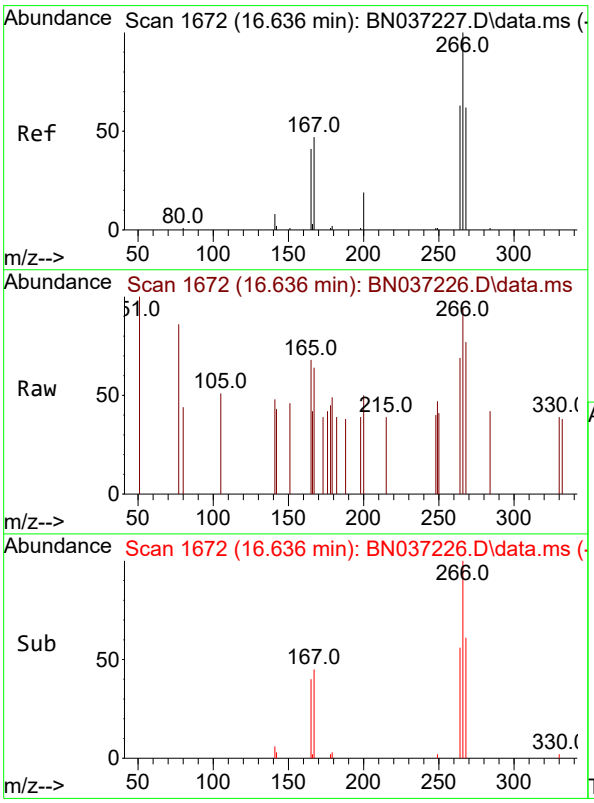
#23
Atrazine
Concen: 0.197 ng
RT: 16.462 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:200 Resp: 252

Ion	Ratio	Lower	Upper
200	100		
173	49.3	25.1	37.7#
215	66.0	43.7	65.5#

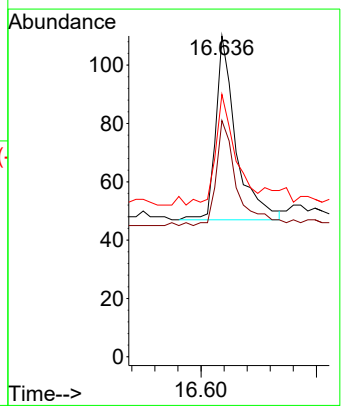


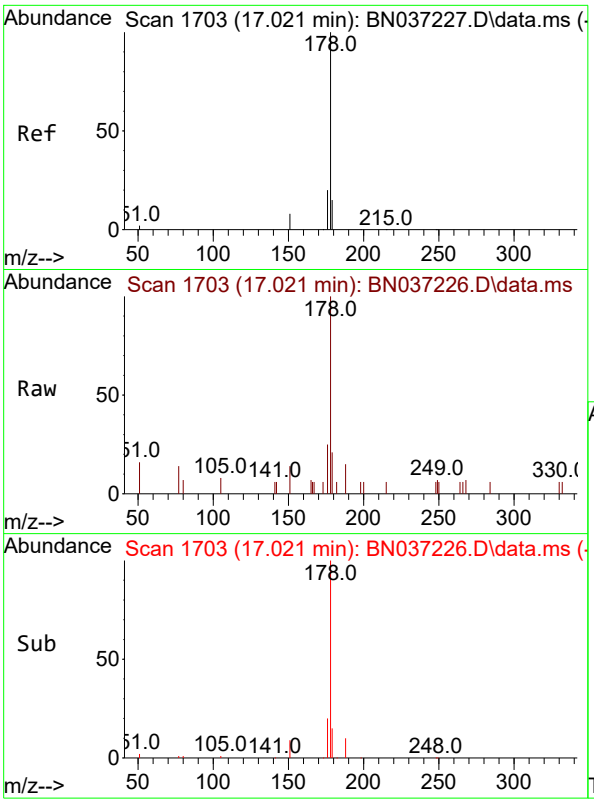


#24
Pentachlorophenol
Concen: 0.188 ng
RT: 16.636 min Scan# 1672
Delta R.T. 0.000 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

Tgt Ion:266 Resp: 153

Ion	Ratio	Lower	Upper
266	100		
264	58.2	49.2	73.8
268	54.2	53.4	80.2



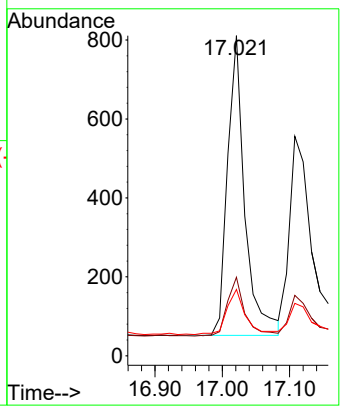


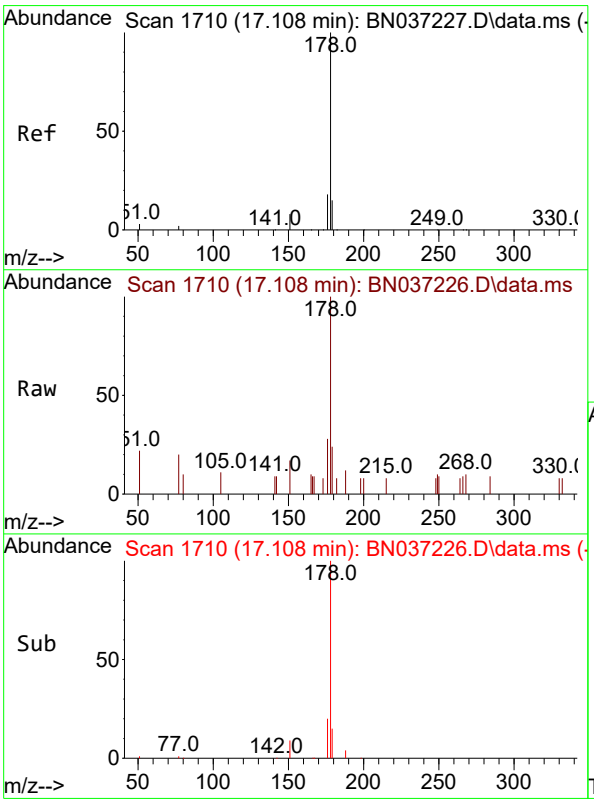
#25
Phenanthrene
Concen: 0.193 ng
RT: 17.021 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:178 Resp: 1346

Ion	Ratio	Lower	Upper
178	100		
176	20.1	16.3	24.5
179	15.9	12.6	18.8

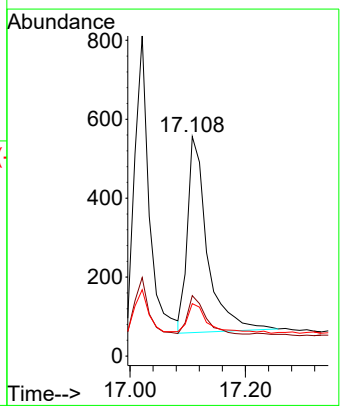


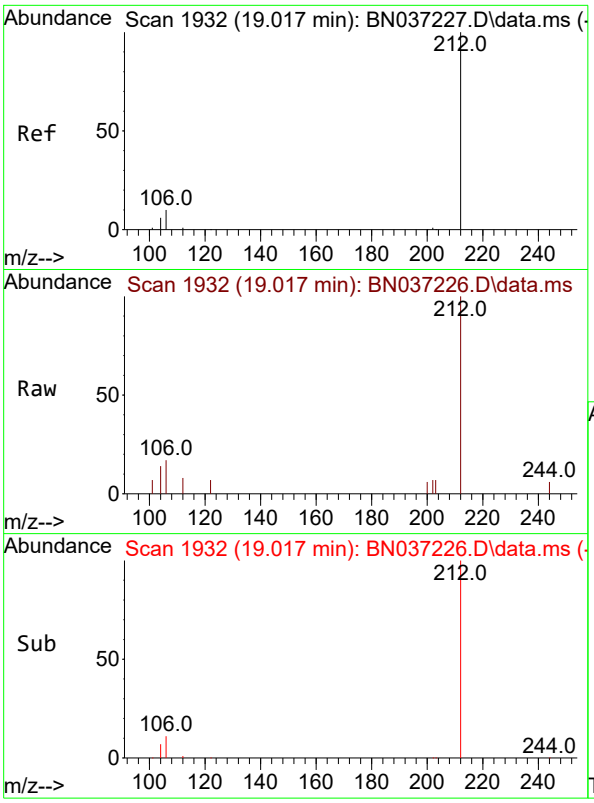


#26
Anthracene
Concen: 0.186 ng
RT: 17.108 min Scan# 1710
Delta R.T. 0.000 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

Tgt Ion:178 Resp: 1186

Ion	Ratio	Lower	Upper
178	100		
176	18.0	15.1	22.7
179	16.4	12.4	18.6



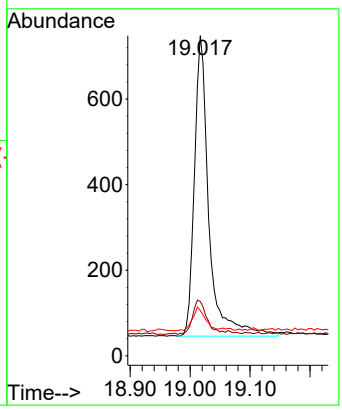


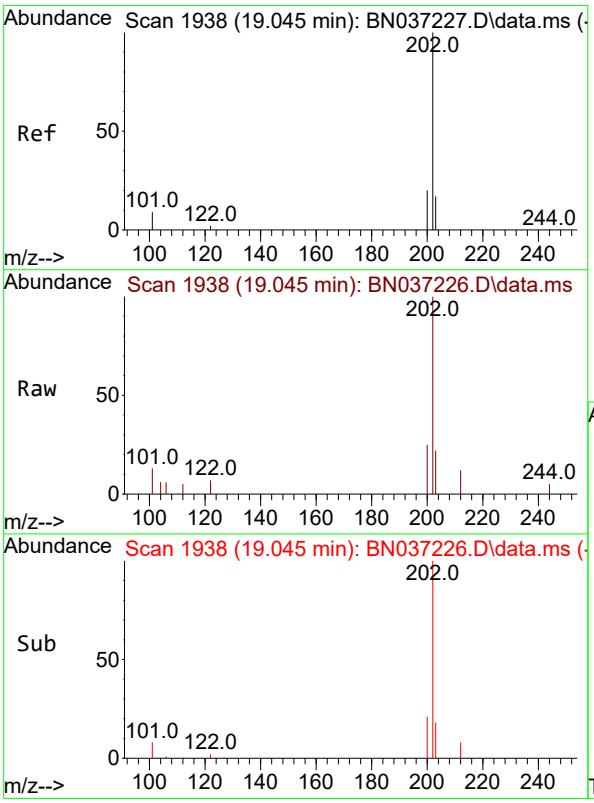
#27
Fluoranthene-d10
Concen: 0.205 ng
RT: 19.017 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:212 Resp: 1179

Ion	Ratio	Lower	Upper
212	100		
106	11.4	9.3	13.9
104	6.9	5.7	8.5

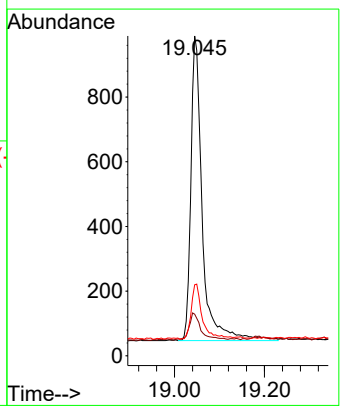


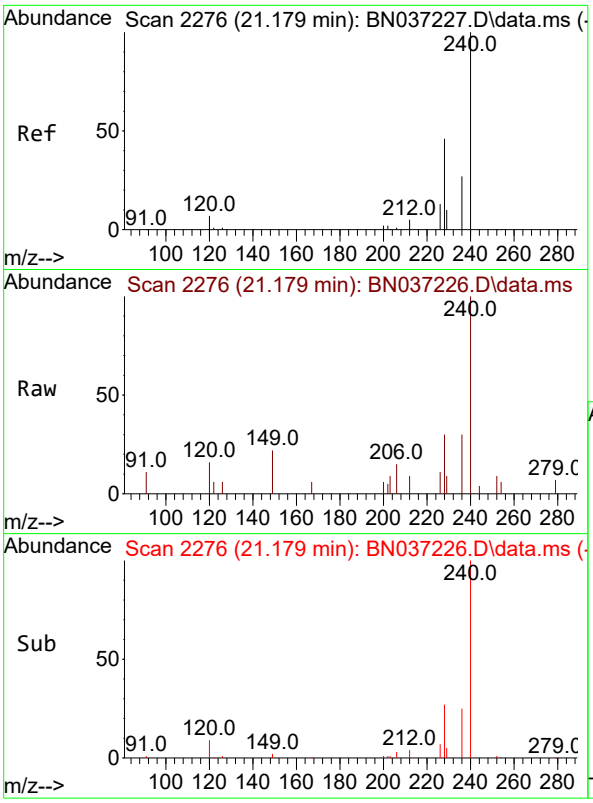


#28
Fluoranthene
Concen: 0.203 ng
RT: 19.045 min Scan# 1938
Delta R.T. 0.000 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

Tgt Ion:202 Resp: 1657

Ion	Ratio	Lower	Upper
202	100		
101	9.1	7.1	10.7
203	18.0	13.0	19.6



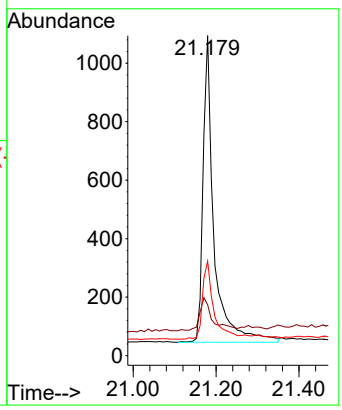


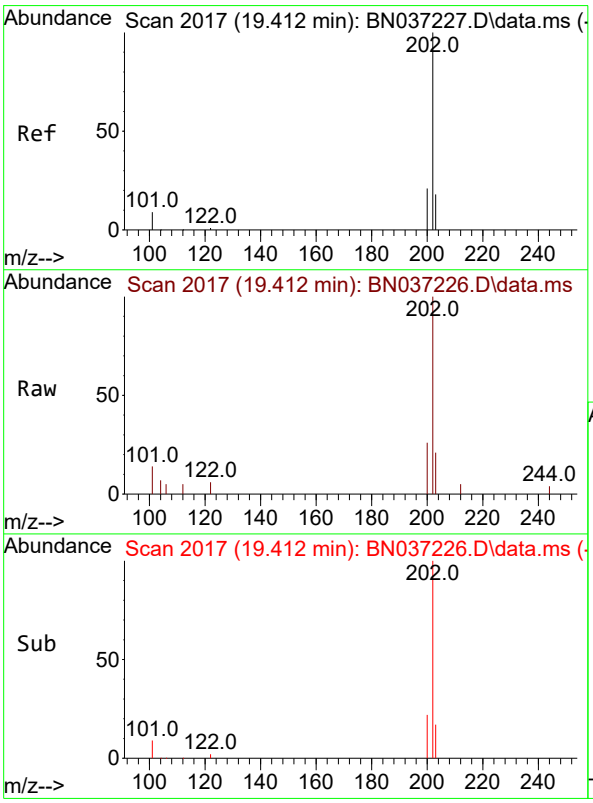
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.179 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:240 Resp: 1908

Ion	Ratio	Lower	Upper
240	100		
120	15.9	11.3	16.9
236	29.5	24.4	36.6

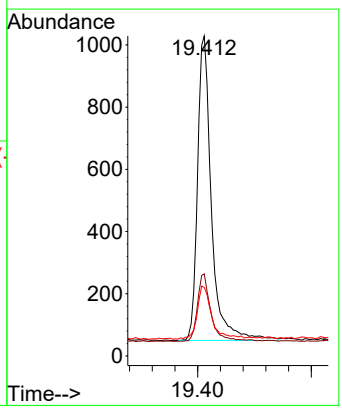


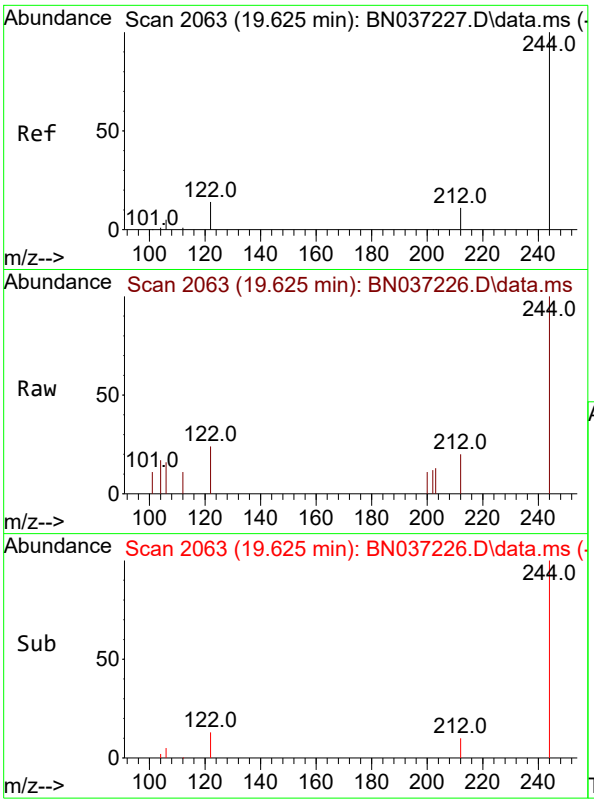


#30
Pyrene
Concen: 0.185 ng
RT: 19.412 min Scan# 2017
Delta R.T. 0.000 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

Tgt Ion:202 Resp: 1660

Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.2	25.8
203	18.2	14.3	21.5



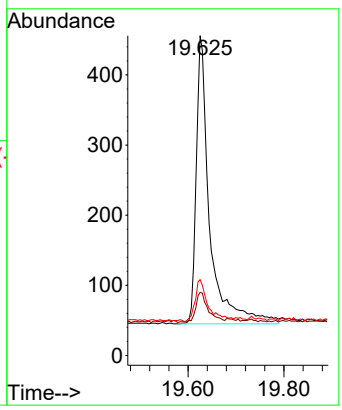


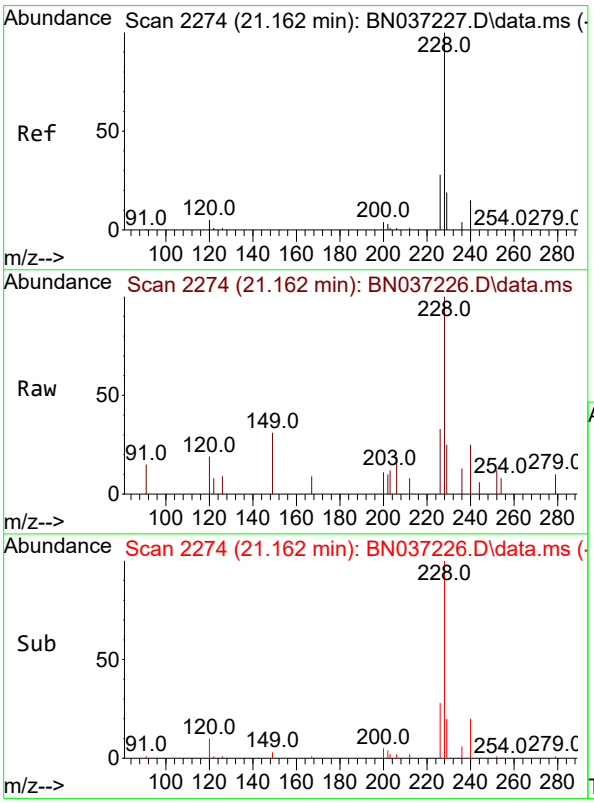
#31
Terphenyl-d14
Concen: 0.187 ng
RT: 19.625 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:244 Resp: 806

Ion	Ratio	Lower	Upper
244	100		
212	19.7	12.2	18.2#
122	23.7	14.3	21.5#

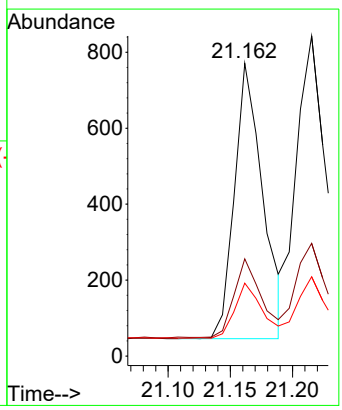


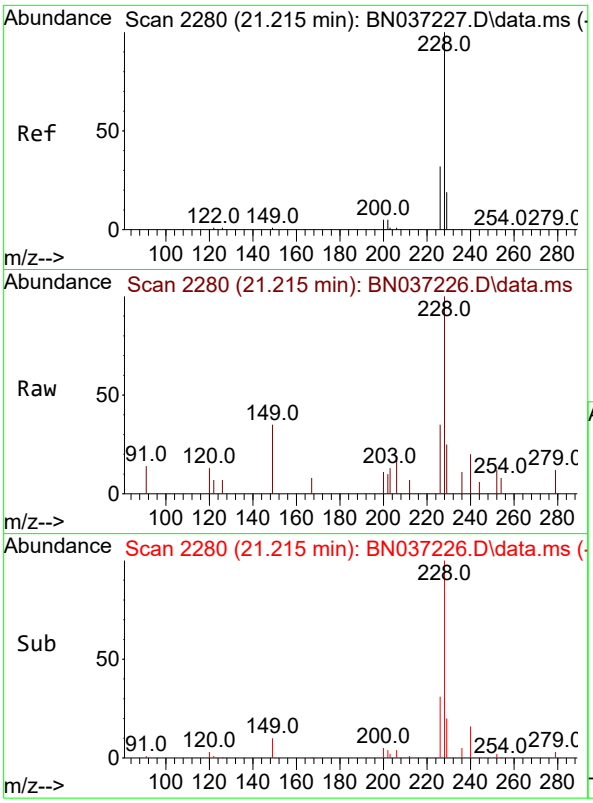


#32
Benzo(a)anthracene
Concen: 0.178 ng
RT: 21.162 min Scan# 2274
Delta R.T. 0.000 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

Tgt Ion:228 Resp: 1149

Ion	Ratio	Lower	Upper
228	100		
226	33.2	23.8	35.8
229	24.9	17.0	25.4



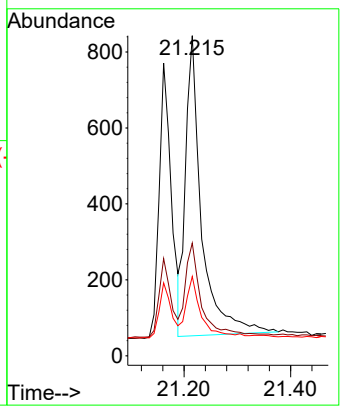


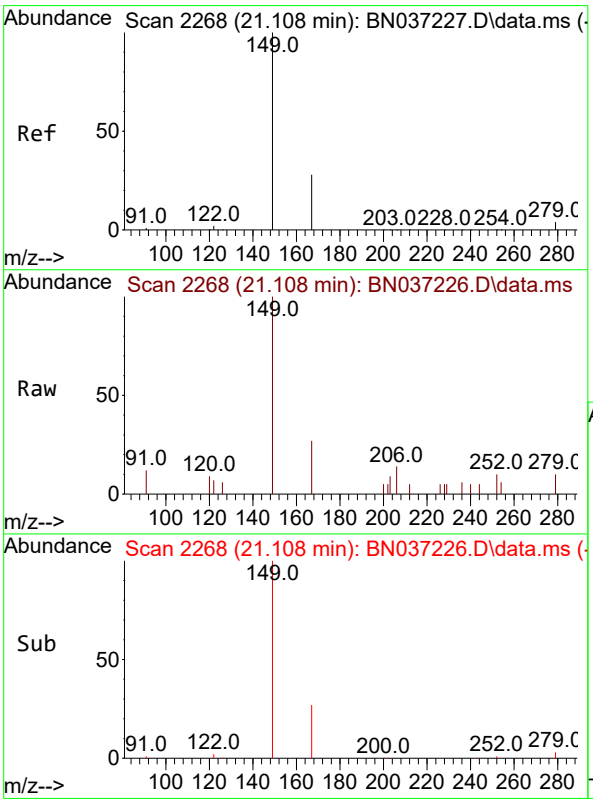
#33
Chrysene
Concen: 0.205 ng
RT: 21.215 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:228 Resp: 1643

Ion	Ratio	Lower	Upper
228	100		
226	35.2	25.8	38.6
229	24.8	17.0	25.4

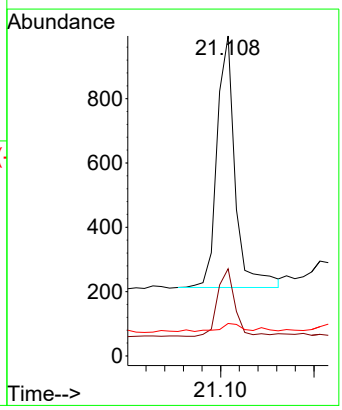


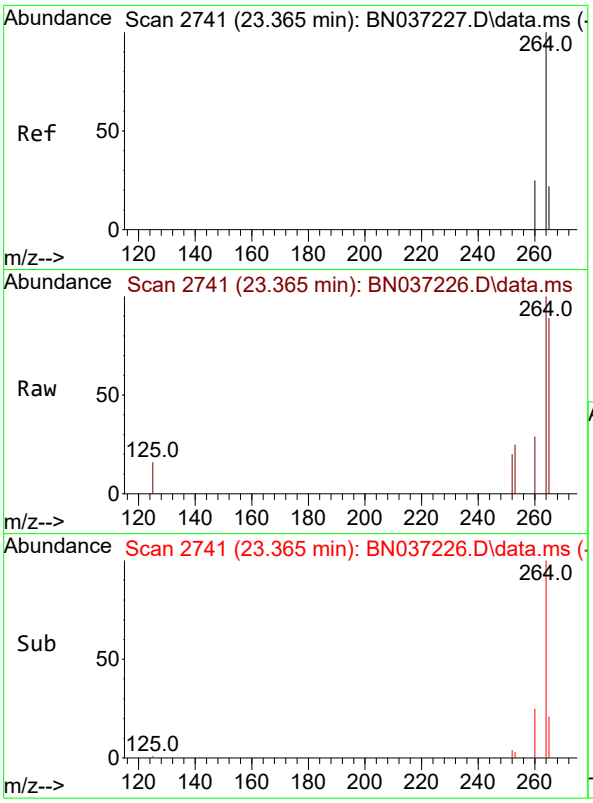


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.219 ng
RT: 21.108 min Scan# 2268
Delta R.T. 0.000 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

Tgt Ion:149 Resp: 1053

Ion	Ratio	Lower	Upper
149	100		
167	25.7	21.3	31.9
279	3.6	3.3	4.9



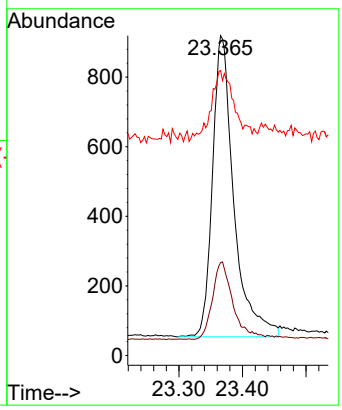


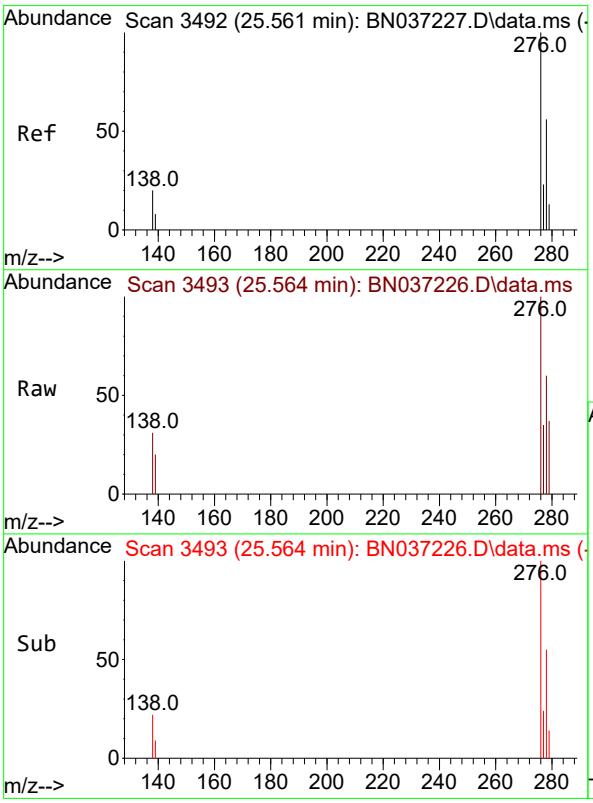
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.365 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:264 Resp: 2012

Ion	Ratio	Lower	Upper
264	100		
260	29.1	22.8	34.2
265	89.1	66.4	99.6

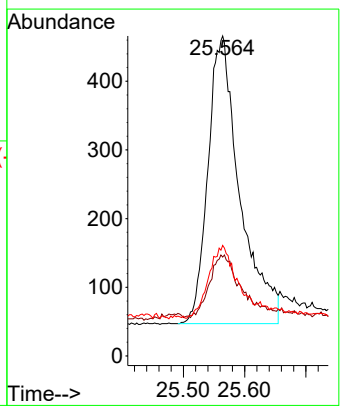


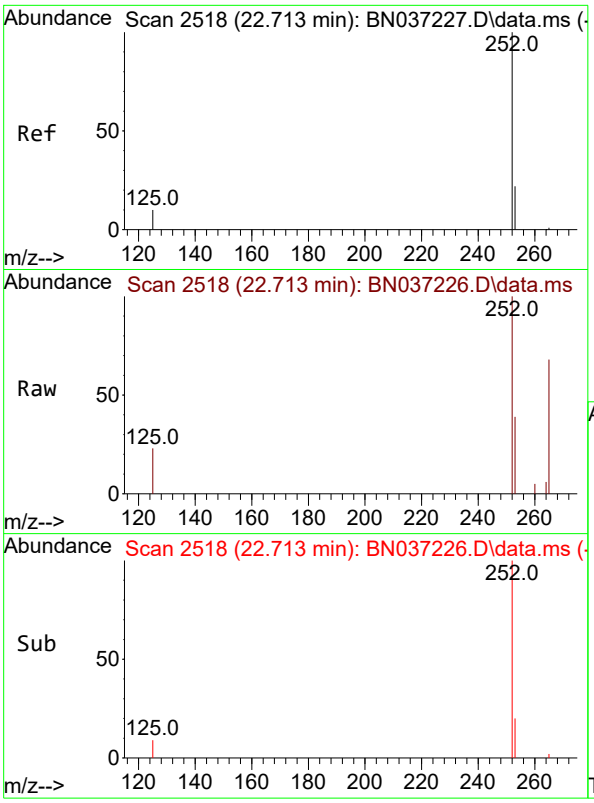


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.186 ng
RT: 25.564 min Scan# 3493
Delta R.T. 0.003 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

Tgt Ion:276 Resp: 1512

Ion	Ratio	Lower	Upper
276	100		
138	20.4	16.8	25.2
277	22.5	19.5	29.3



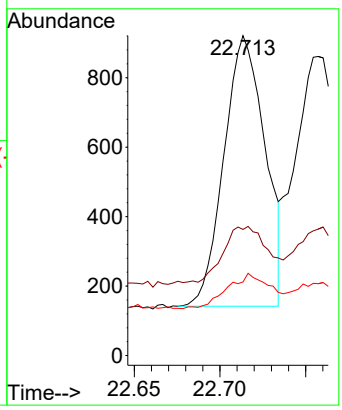


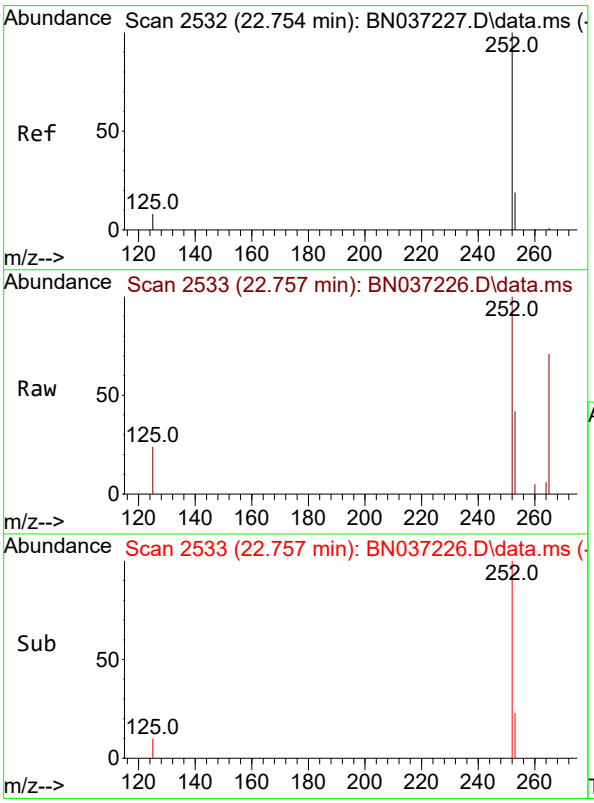
#37
Benzo(b)fluoranthene
Concen: 0.176 ng
RT: 22.713 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:252 Resp: 1296

Ion	Ratio	Lower	Upper
252	100		
253	39.4	24.9	37.3#
125	23.0	12.9	19.3#

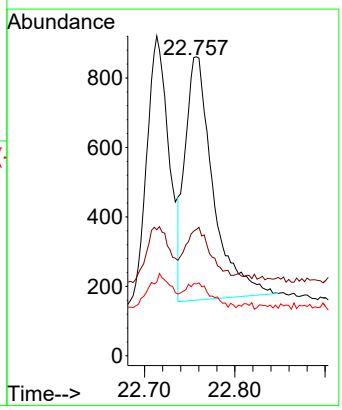


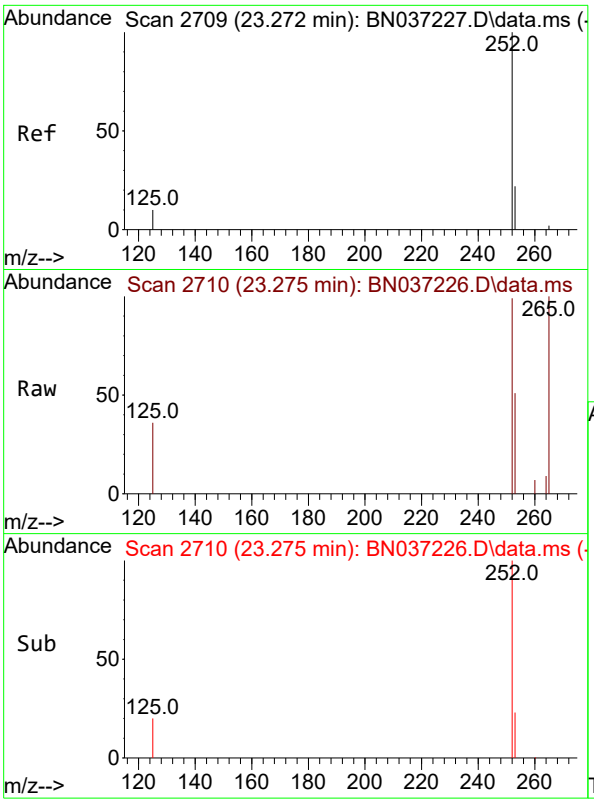


#38
Benzo(k)fluoranthene
Concen: 0.179 ng
RT: 22.757 min Scan# 2533
Delta R.T. 0.003 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

Tgt Ion:252 Resp: 1512

Ion	Ratio	Lower	Upper
252	100		
253	42.3	24.6	37.0#
125	24.0	13.4	20.2#



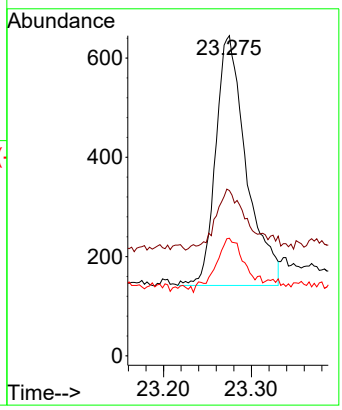


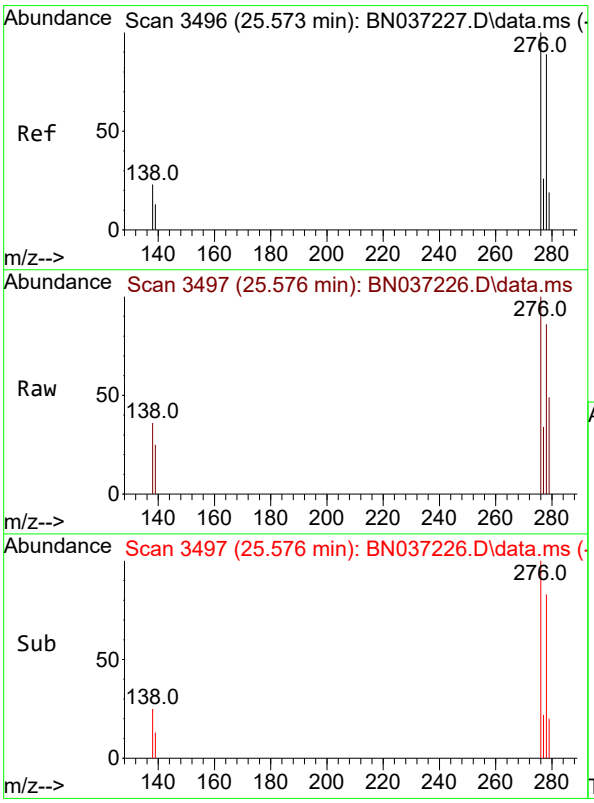
#39
Benzo(a)pyrene
Concen: 0.184 ng
RT: 23.275 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:252 Resp: 1215

Ion	Ratio	Lower	Upper
252	100		
253	51.6	29.4	44.2#
125	36.7	16.2	24.2#

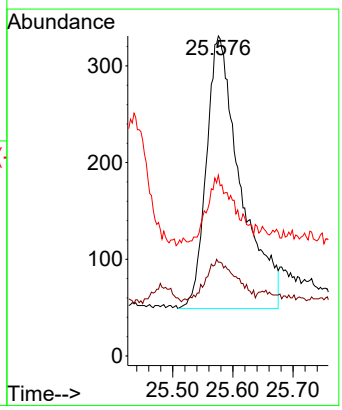


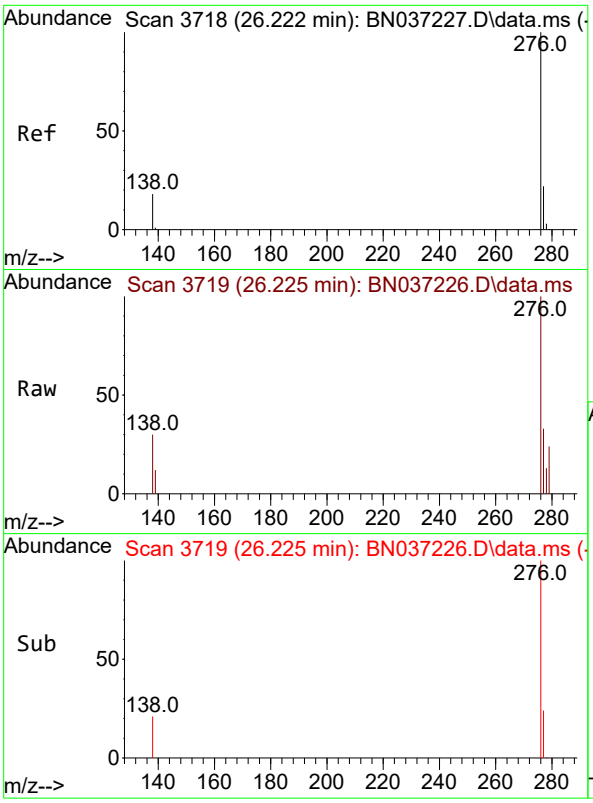


#40
Dibenzo(a,h)anthracene
Concen: 0.181 ng
RT: 25.576 min Scan# 3497
Delta R.T. 0.003 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

Tgt Ion:278 Resp: 1109

Ion	Ratio	Lower	Upper
278	100		
139	29.3	17.8	26.6#
279	56.5	31.3	46.9#



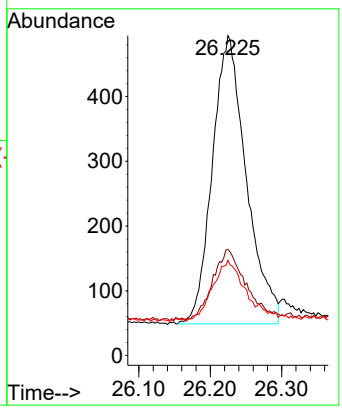


#41
Benzo(g,h,i)perylene
Concen: 0.195 ng
RT: 26.225 min Scan# 3
Delta R.T. 0.003 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:276 Resp: 1469

Ion	Ratio	Lower	Upper
276	100		
277	33.2	22.0	33.0#
138	29.8	18.4	27.6#



Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037227.D
Acq On : 13 Jun 2025 14:46
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Quant Time: Jun 13 18:37:14 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:34:15 2025
Response via : Initial Calibration

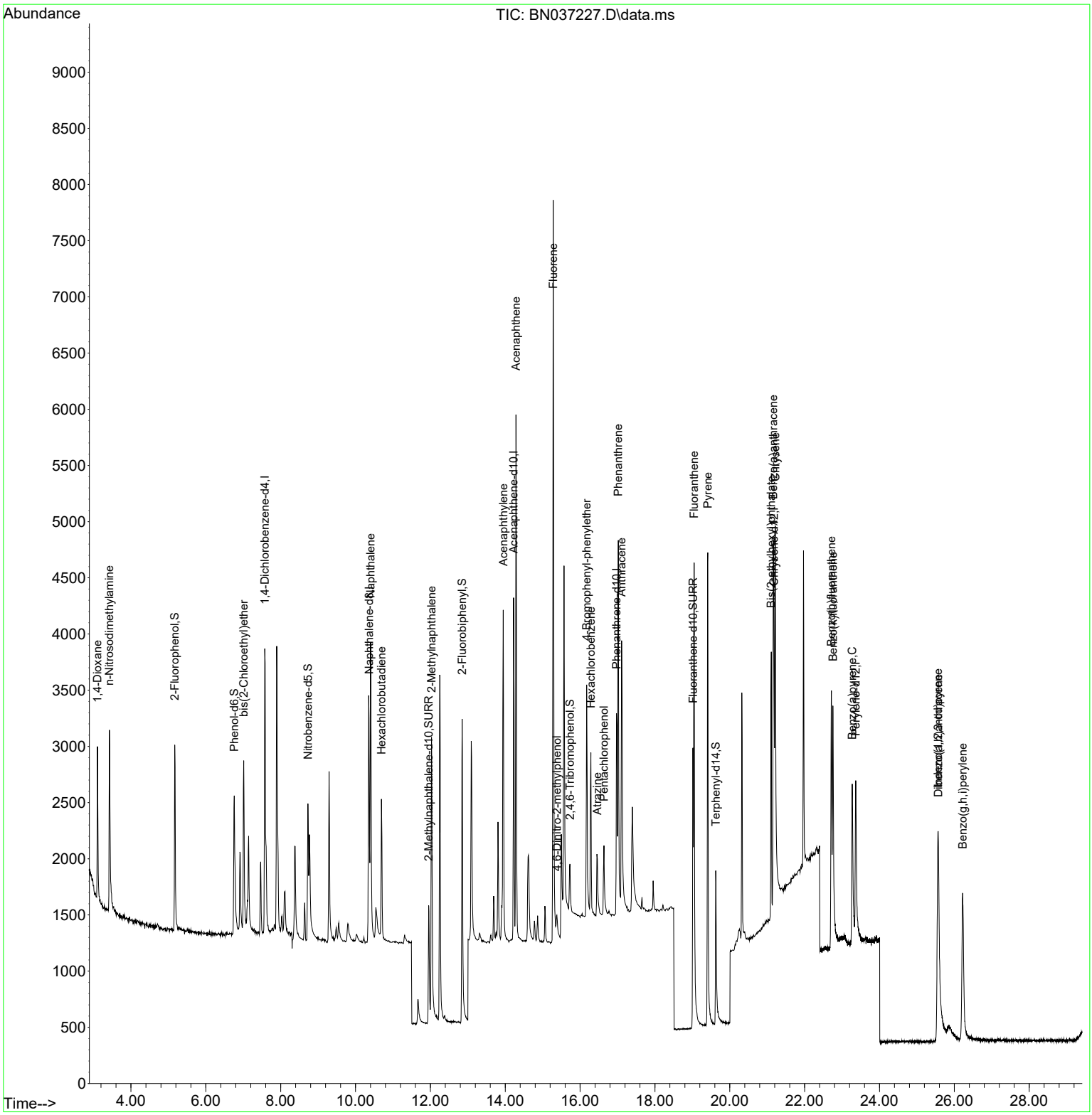
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.575	152	1287	0.400	ng		0.00
7) Naphthalene-d8	10.361	136	3210	0.400	ng		0.00
13) Acenaphthene-d10	14.224	164	1738	0.400	ng		0.00
19) Phenanthrene-d10	16.971	188	3195	0.400	ng		0.00
29) Chrysene-d12	21.179	240	2284	0.400	ng		0.00
35) Perylene-d12	23.365	264	2150	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.170	112	1212	0.383	ng		0.00
5) Phenol-d6	6.759	99	1239	0.372	ng		0.00
8) Nitrobenzene-d5	8.728	82	1234	0.389	ng		0.00
11) 2-Methylnaphthalene-d10	11.955	152	1787	0.415	ng		0.00
14) 2,4,6-Tribromophenol	15.730	330	298	0.413	ng		0.00
15) 2-Fluorobiphenyl	12.848	172	2952	0.404	ng		0.00
27) Fluoranthene-d10	19.017	212	3364	0.402	ng		0.00
31) Terphenyl-d14	19.625	244	2160	0.418	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.104	88	676	0.383	ng		100
3) n-Nitrosodimethylamine	3.422	42	1644	0.409	ng		100
6) bis(2-Chloroethyl)ether	7.011	93	1120	0.375	ng		100
9) Naphthalene	10.404	128	3636	0.391	ng		100
10) Hexachlorobutadiene	10.692	225	968	0.428	ng	#	100
12) 2-Methylnaphthalene	12.031	142	2261	0.400	ng		100
16) Acenaphthylene	13.946	152	3250	0.382	ng		100
17) Acenaphthene	14.288	154	2155	0.392	ng		100
18) Fluorene	15.282	166	2768	0.392	ng		100
20) 4,6-Dinitro-2-methylph...	15.378	198	211	0.368	ng		100
21) 4-Bromophenyl-phenylether	16.177	248	780	0.375	ng		100
22) Hexachlorobenzene	16.289	284	994	0.412	ng		100
23) Atrazine	16.462	200	710	0.382	ng		100
24) Pentachlorophenol	16.636	266	397	0.336	ng		100
25) Phenanthrene	17.021	178	3790	0.374	ng		100
26) Anthracene	17.108	178	3450	0.372	ng		100
28) Fluoranthene	19.045	202	4510	0.380	ng		100
30) Pyrene	19.412	202	4482	0.417	ng		100
32) Benzo(a)anthracene	21.162	228	2798	0.363	ng		100
33) Chrysene	21.215	228	3871	0.403	ng		100
34) Bis(2-ethylhexyl)phtha...	21.108	149	2338	0.407	ng		100
36) Indeno(1,2,3-cd)pyrene	25.561	276	3239	0.374	ng		100
37) Benzo(b)fluoranthene	22.713	252	2958	0.376	ng		100
38) Benzo(k)fluoranthene	22.754	252	3501	0.388	ng		100
39) Benzo(a)pyrene	23.272	252	2653	0.375	ng		100
40) Dibenzo(a,h)anthracene	25.573	278	2256	0.345	ng		100
41) Benzo(g,h,i)perylene	26.222	276	3099	0.385	ng		100

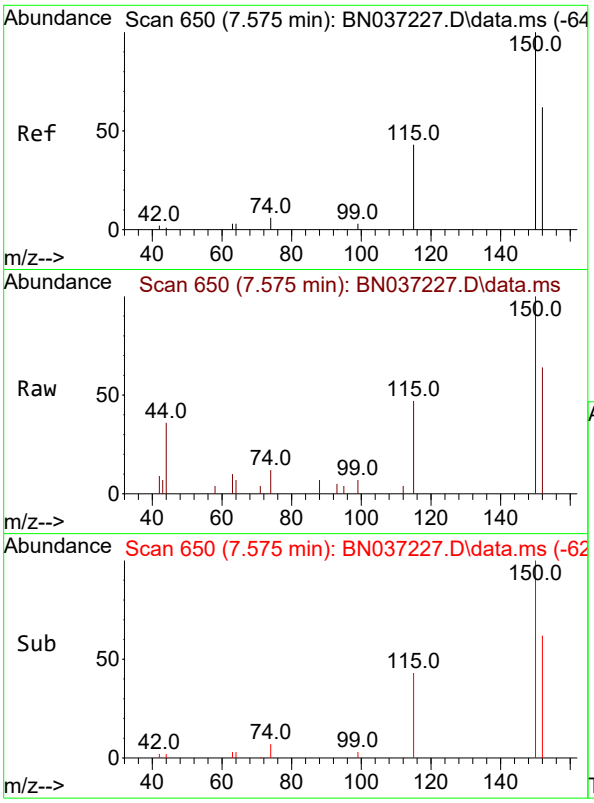
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037227.D
Acq On : 13 Jun 2025 14:46
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Quant Time: Jun 13 18:37:14 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:34:15 2025
Response via : Initial Calibration



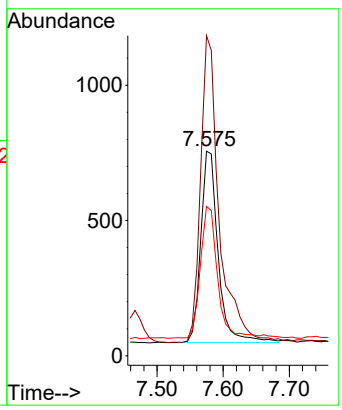


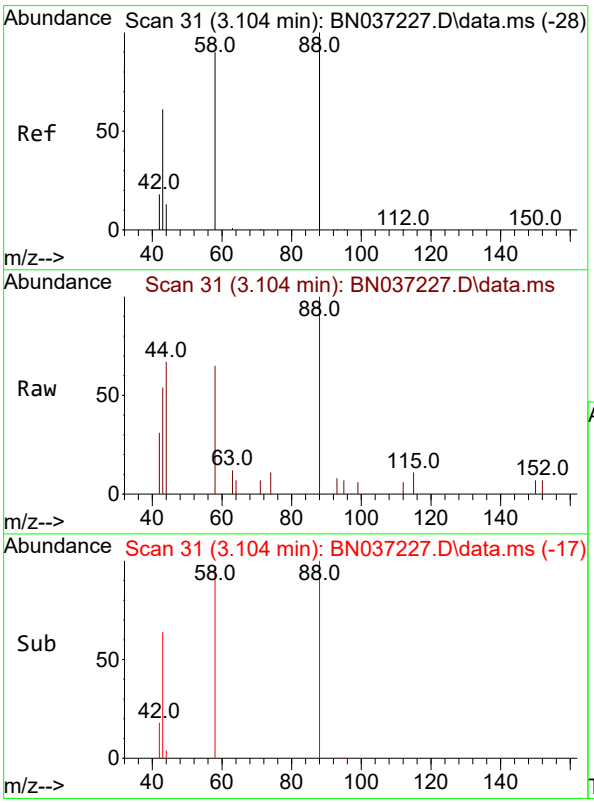
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:152 Resp: 1287

Ion	Ratio	Lower	Upper
152	100		
150	156.5	125.2	187.8
115	73.0	58.4	87.6

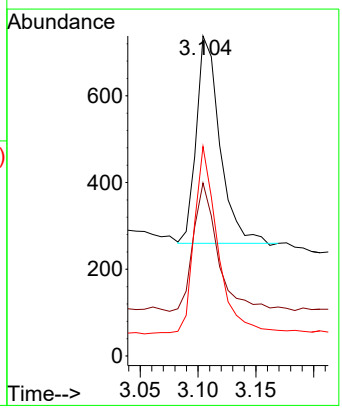


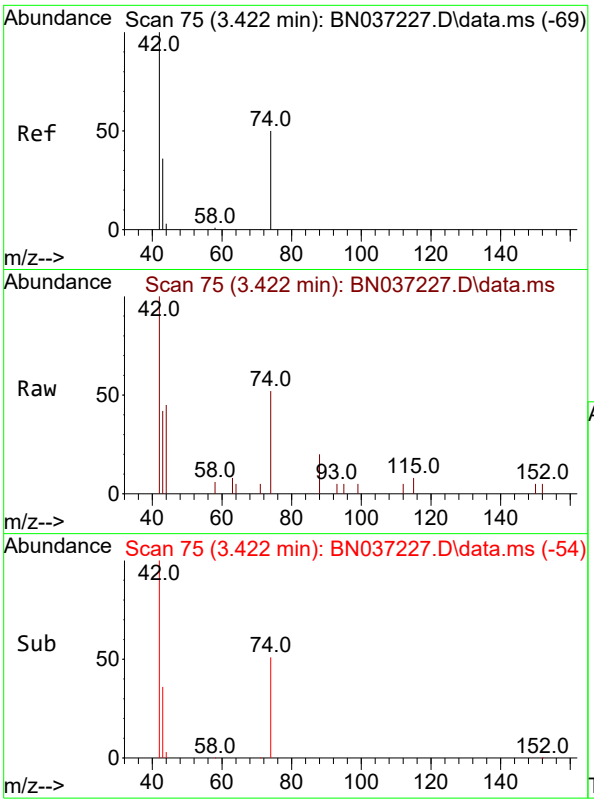


#2
1,4-Dioxane
Concen: 0.383 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

Tgt Ion: 88 Resp: 676

Ion	Ratio	Lower	Upper
88	100		
43	65.8	52.6	79.0
58	91.9	73.5	110.3



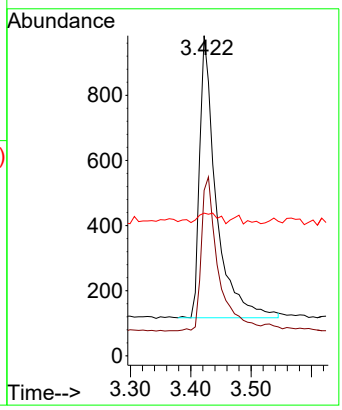


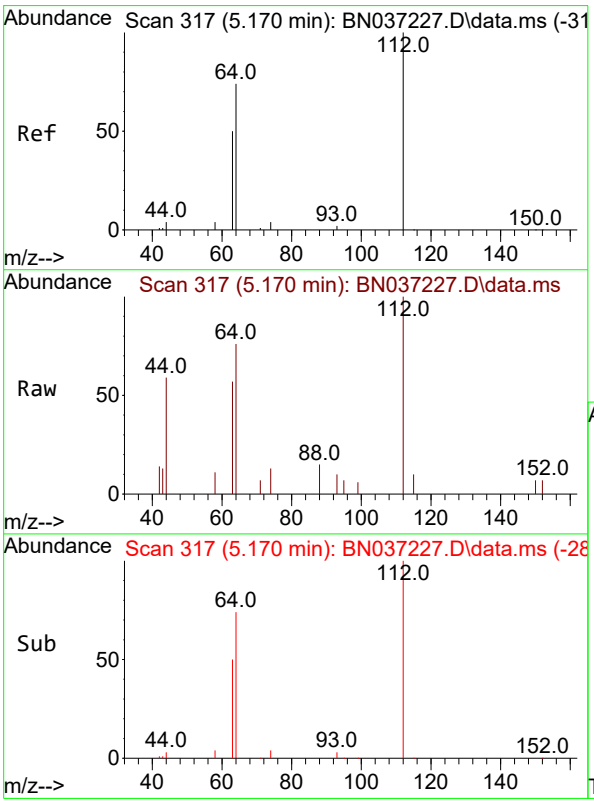
#3
n-Nitrosodimethylamine
Concen: 0.409 ng
RT: 3.422 min Scan# 7
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion: 42 Resp: 1644

Ion	Ratio	Lower	Upper
42	100		
74	55.7	44.6	66.8
44	4.4	3.5	5.3

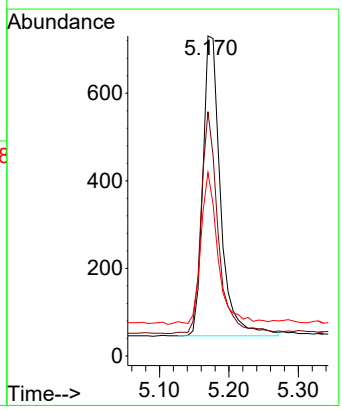


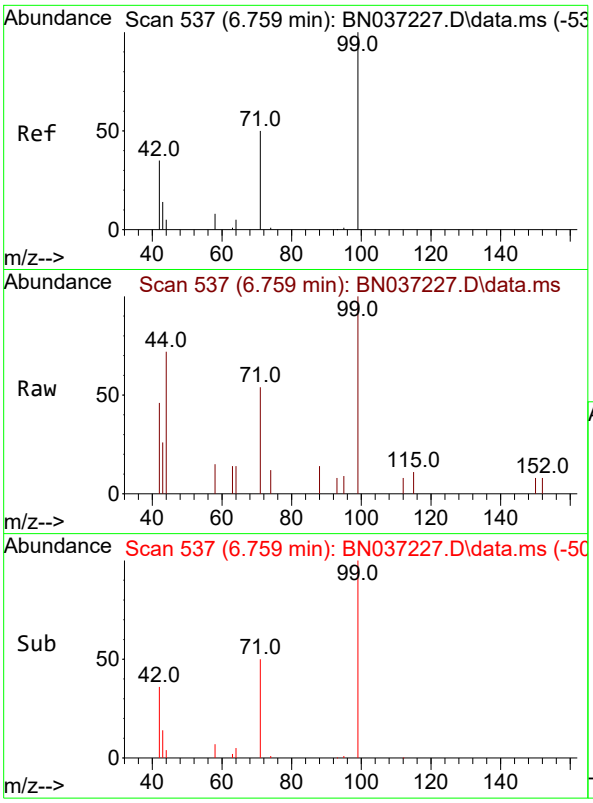


#4
2-Fluorophenol
Concen: 0.383 ng
RT: 5.170 min Scan# 317
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

Tgt Ion:112 Resp: 1212

Ion	Ratio	Lower	Upper
112	100		
64	71.5	57.2	85.8
63	49.7	39.8	59.6



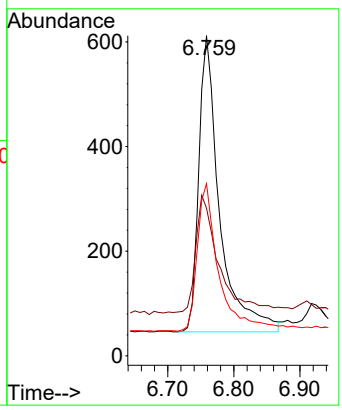


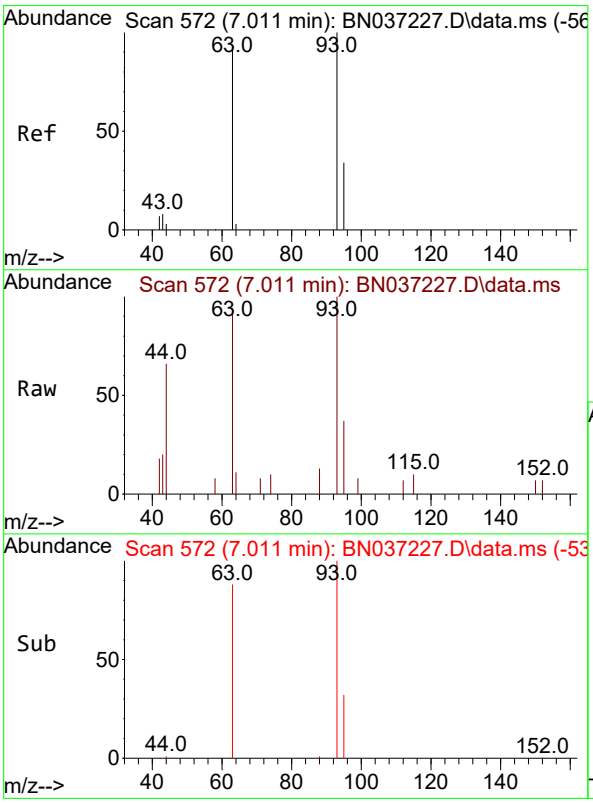
#5
Phenol-d6
Concen: 0.372 ng
RT: 6.759 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion: 99 Resp: 1239

Ion	Ratio	Lower	Upper
99	100		
42	45.3	36.2	54.4
71	53.0	42.4	63.6

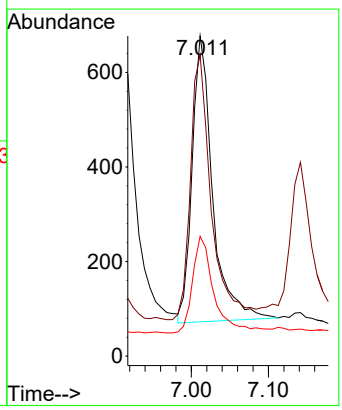


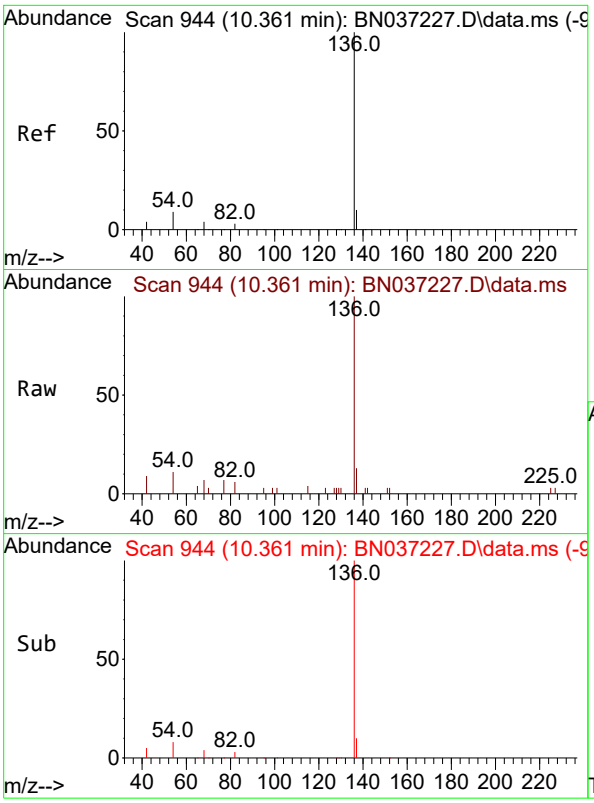


#6
bis(2-Chloroethyl)ether
Concen: 0.375 ng
RT: 7.011 min Scan# 572
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

Tgt Ion: 93 Resp: 1120

Ion	Ratio	Lower	Upper
93	100		
63	94.0	75.2	112.8
95	35.4	28.3	42.5



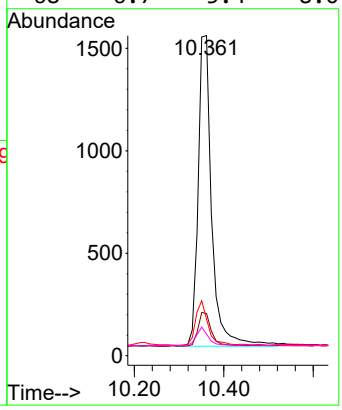


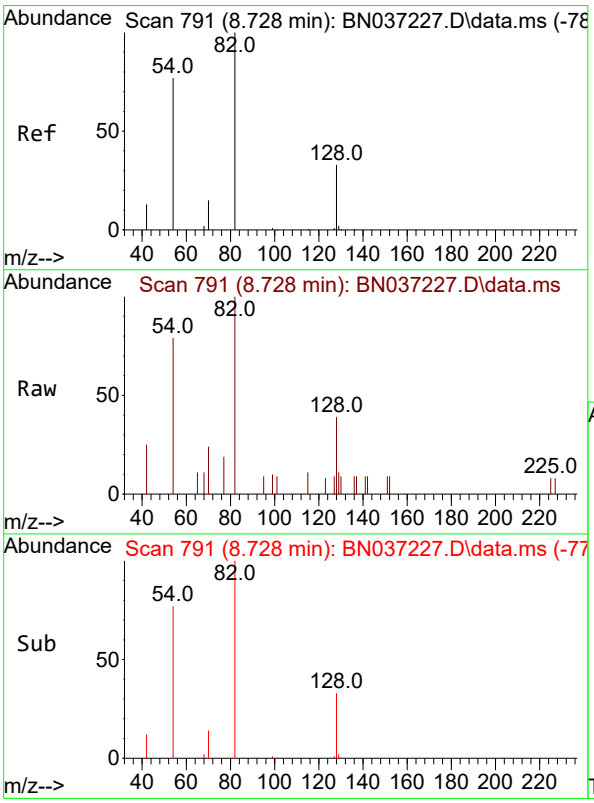
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.361 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:136 Resp: 3210

Ion	Ratio	Lower	Upper
136	100		
137	13.2	10.6	15.8
54	11.5	9.2	13.8
68	6.7	5.4	8.0

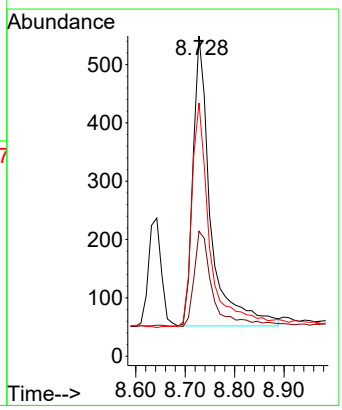


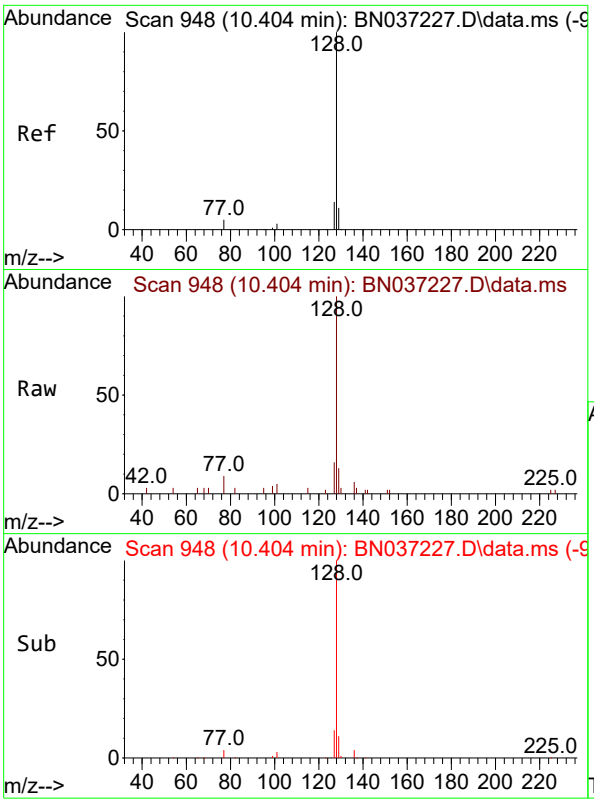


#8
Nitrobenzene-d5
Concen: 0.389 ng
RT: 8.728 min Scan# 791
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

Tgt Ion: 82 Resp: 1234

Ion	Ratio	Lower	Upper
82	100		
128	39.0	31.2	46.8
54	79.1	63.3	94.9



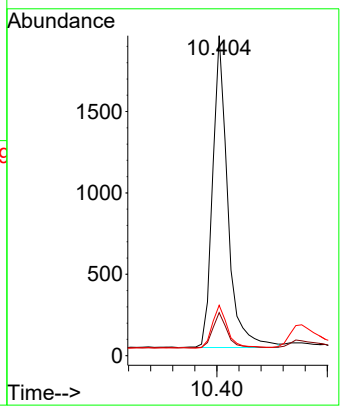


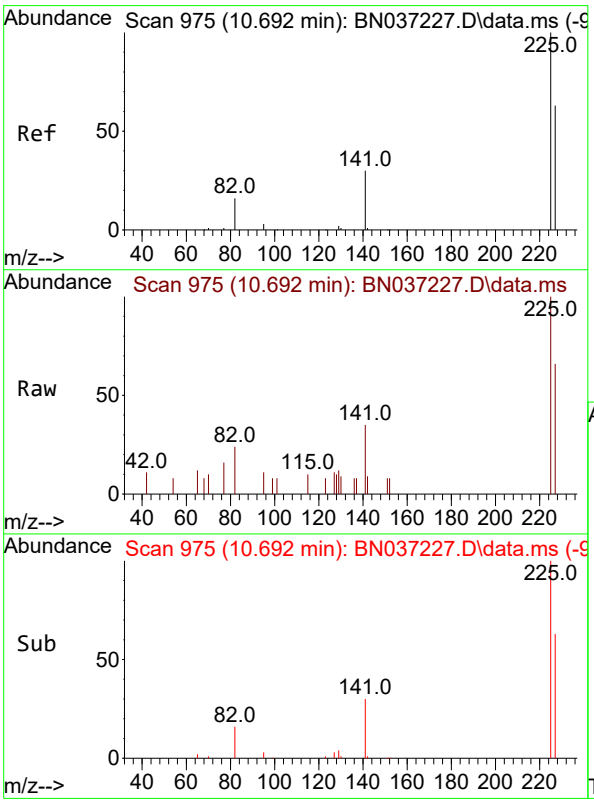
#9
Naphthalene
Concen: 0.391 ng
RT: 10.404 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:128 Resp: 3636

Ion	Ratio	Lower	Upper
128	100		
129	13.4	10.7	16.1
127	15.8	12.6	19.0

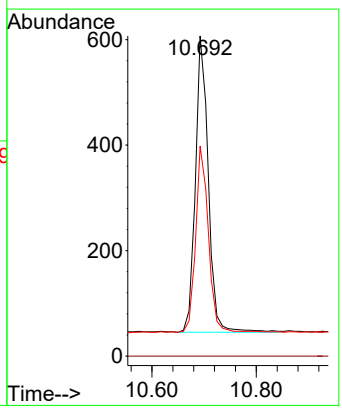


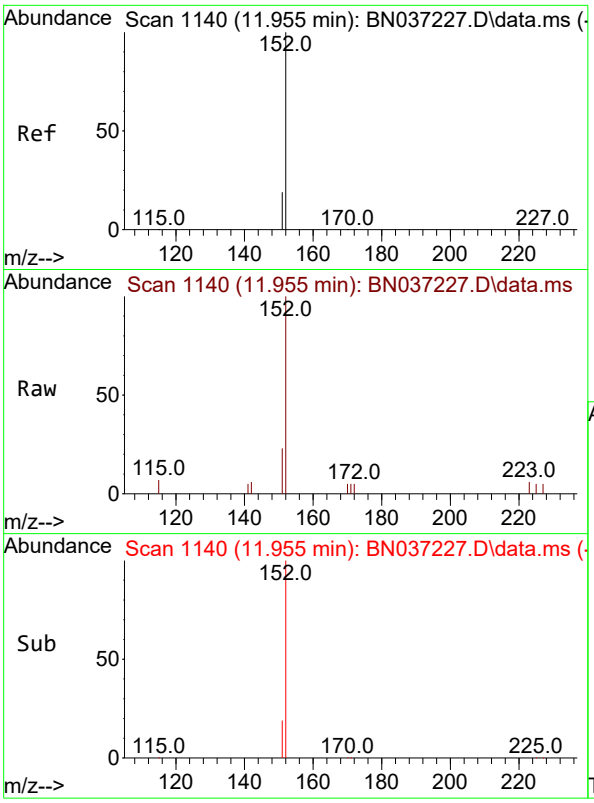


#10
Hexachlorobutadiene
Concen: 0.428 ng
RT: 10.692 min Scan# 975
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

Tgt Ion:225 Resp: 968

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	61.6	49.2	73.8



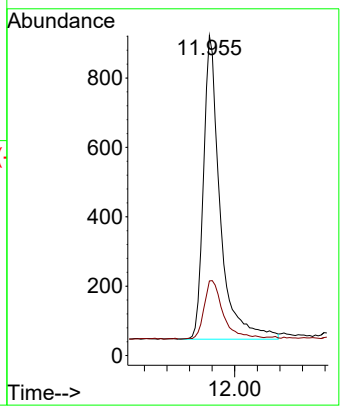


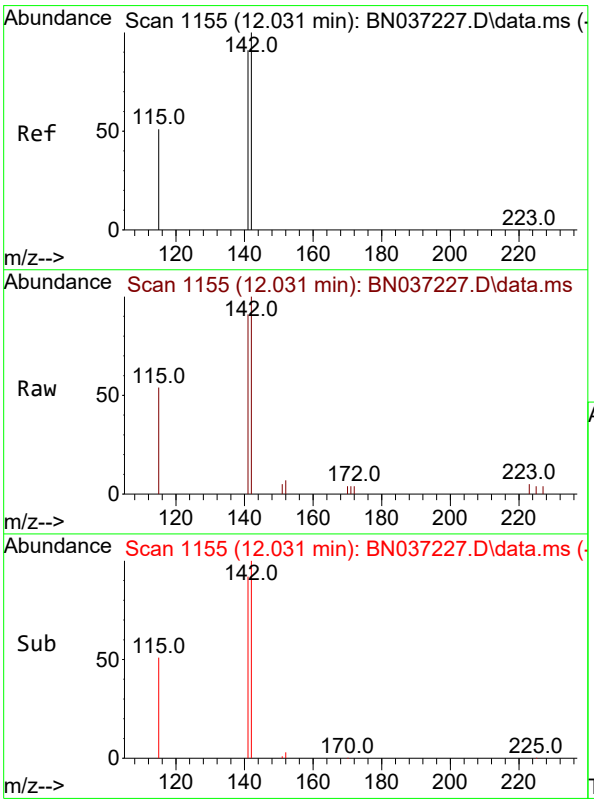
#11
2-Methylnaphthalene-d10
Concen: 0.415 ng
RT: 11.955 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:152 Resp: 1787

Ion	Ratio	Lower	Upper
152	100		
151	22.4	17.9	26.9

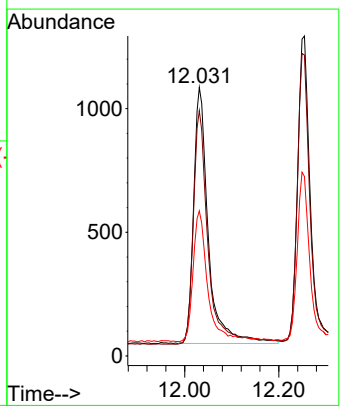


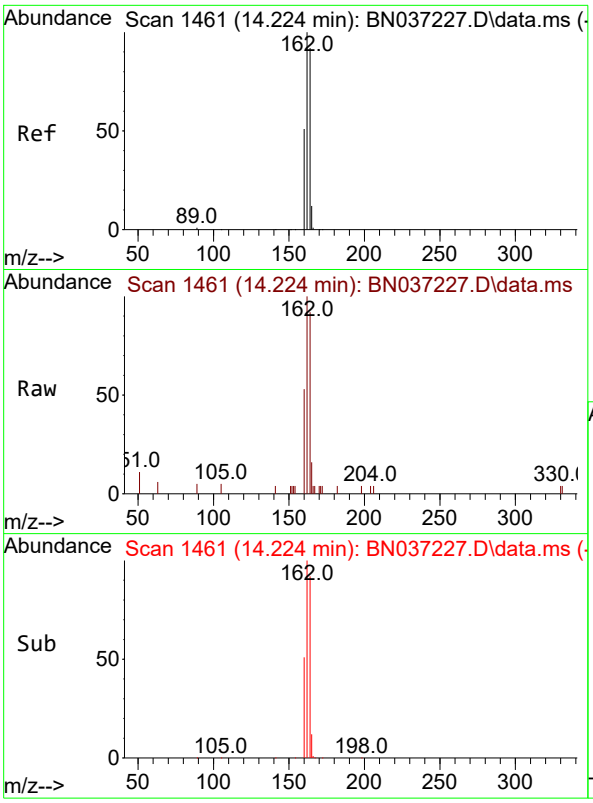


#12
2-Methylnaphthalene
Concen: 0.400 ng
RT: 12.031 min Scan# 1155
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

Tgt Ion:142 Resp: 2261

Ion	Ratio	Lower	Upper
142	100		
141	91.3	73.0	109.6
115	54.1	43.3	64.9



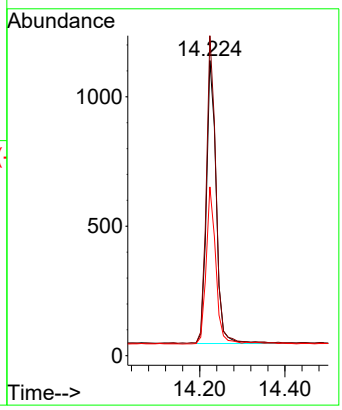


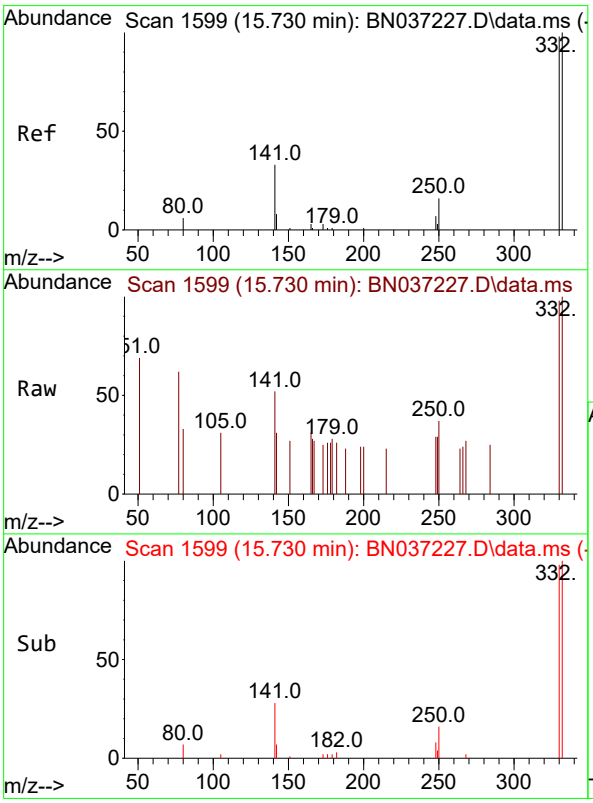
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:164 Resp: 1738

Ion	Ratio	Lower	Upper
164	100		
162	108.4	86.7	130.1
160	57.2	45.8	68.6

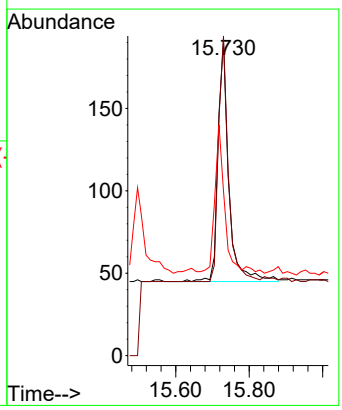


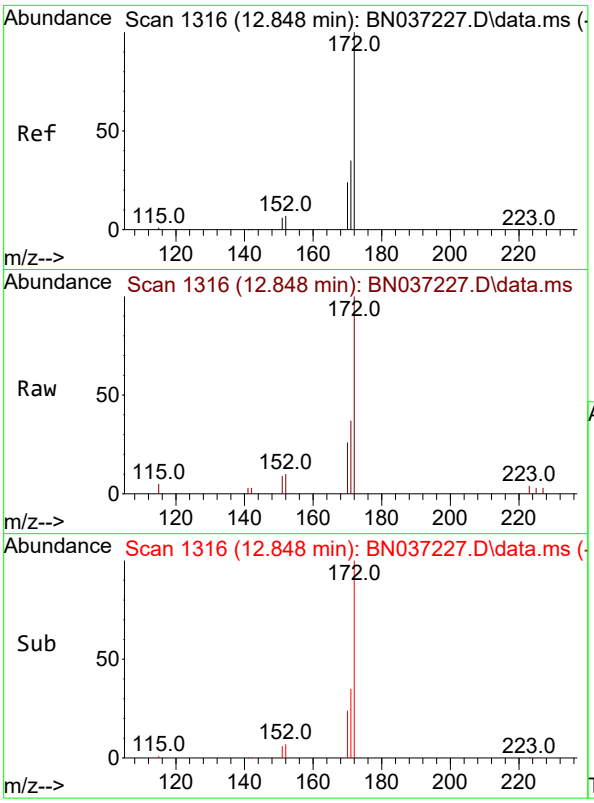


#14
2,4,6-Tribromophenol
Concen: 0.413 ng
RT: 15.730 min Scan# 1599
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

Tgt Ion:330 Resp: 298

Ion	Ratio	Lower	Upper
330	100		
332	93.6	74.9	112.3
141	56.4	45.1	67.7



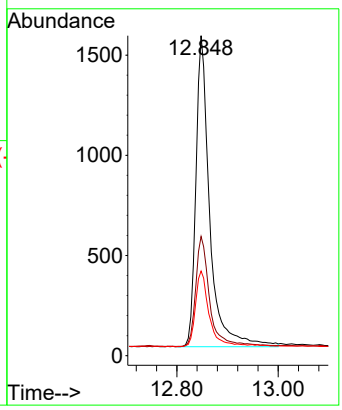


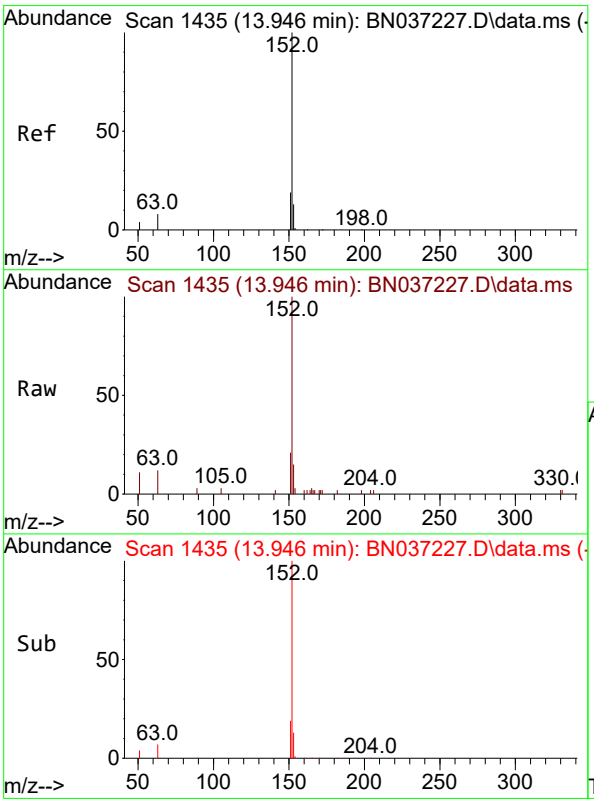
#15
2-Fluorobiphenyl
Concen: 0.404 ng
RT: 12.848 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:172 Resp: 2952

Ion	Ratio	Lower	Upper
172	100		
171	37.3	29.8	44.8
170	26.4	21.1	31.7

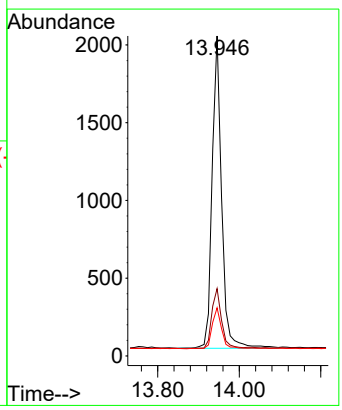


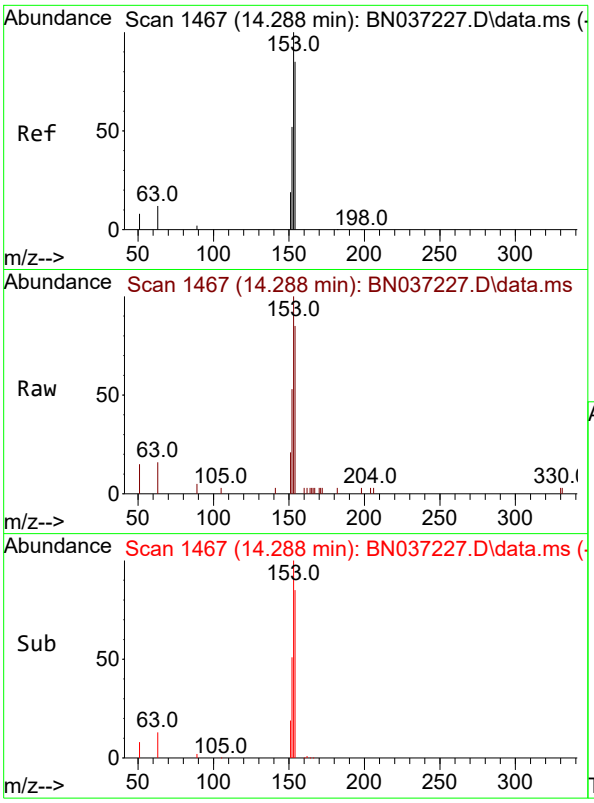


#16
Acenaphthylene
Concen: 0.382 ng
RT: 13.946 min Scan# 1435
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

Tgt Ion:152 Resp: 3250

Ion	Ratio	Lower	Upper
152	100		
151	19.6	15.7	23.5
153	13.4	10.7	16.1



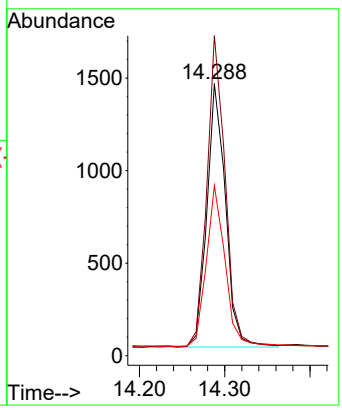


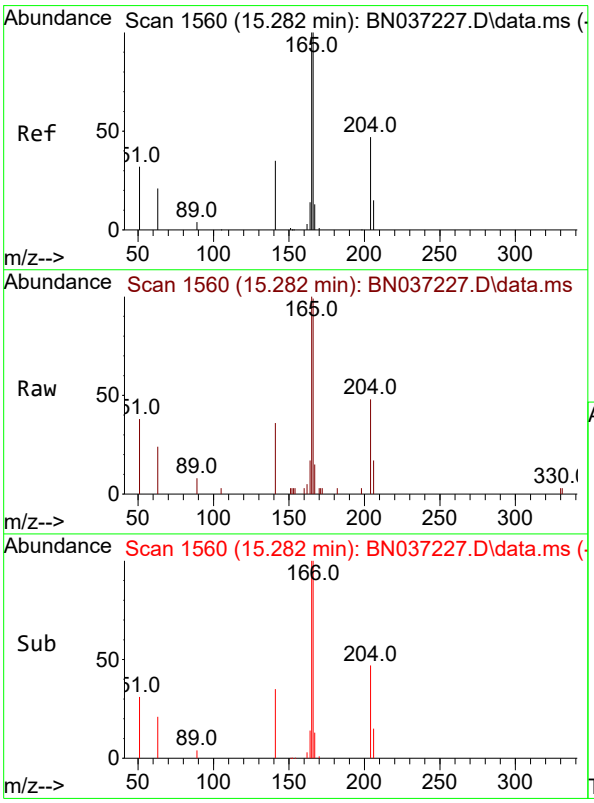
#17
Acenaphthene
Concen: 0.392 ng
RT: 14.288 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:154 Resp: 2155

Ion	Ratio	Lower	Upper
154	100		
153	118.2	94.6	141.8
152	62.0	49.6	74.4

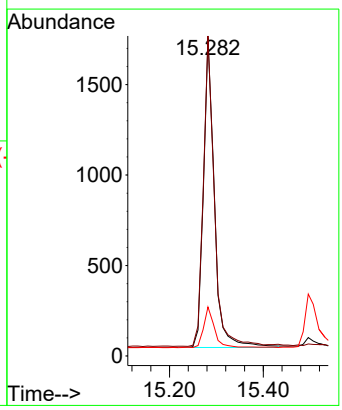


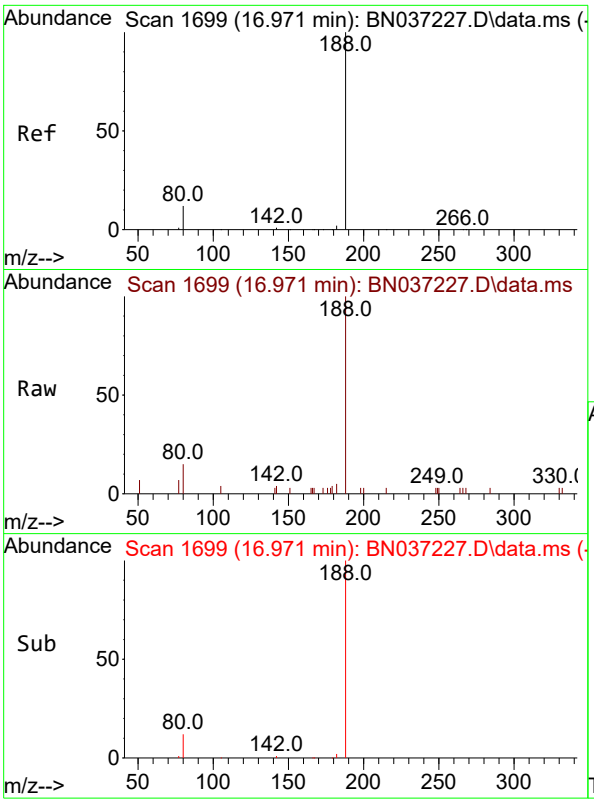


#18
Fluorene
Concen: 0.392 ng
RT: 15.282 min Scan# 1560
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

Tgt Ion:166 Resp: 2768

Ion	Ratio	Lower	Upper
166	100		
165	99.7	79.8	119.6
167	13.5	10.8	16.2



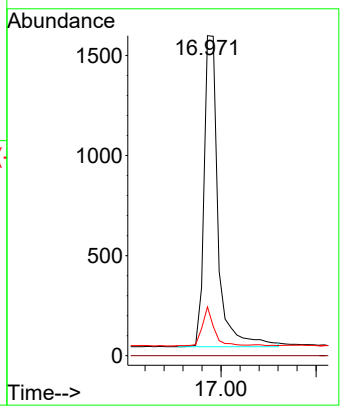


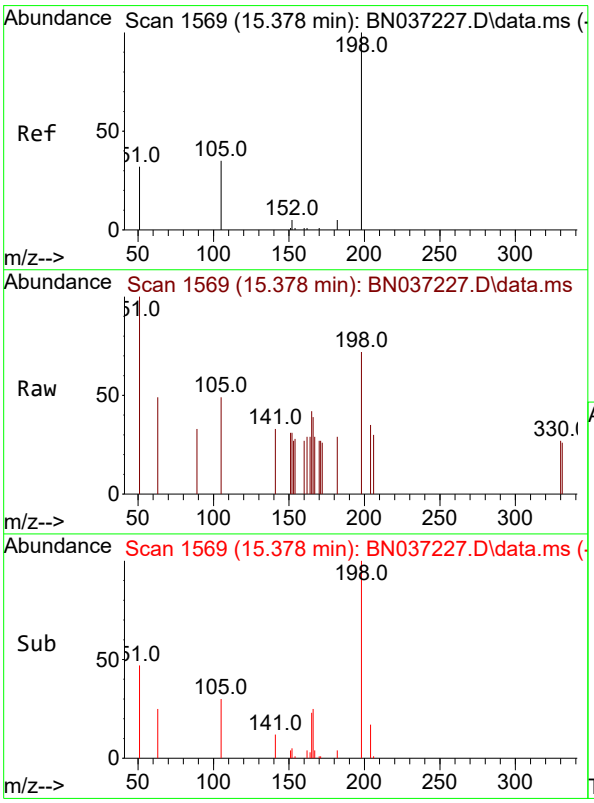
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:188 Resp: 3195

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	15.3	12.2	18.4

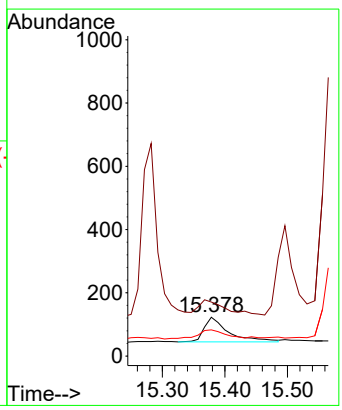


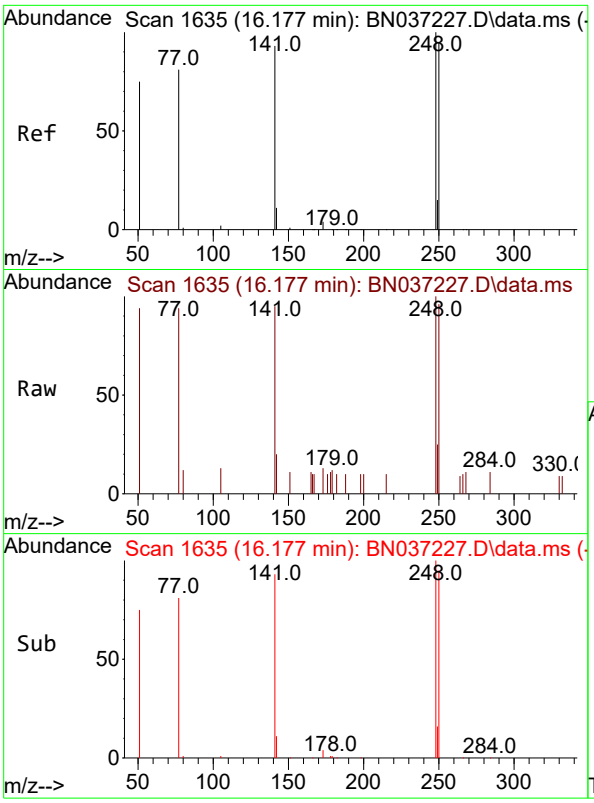


#20
4,6-Dinitro-2-methylphenol
Concen: 0.368 ng
RT: 15.378 min Scan# 1569
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

Tgt Ion:198 Resp: 211

Ion	Ratio	Lower	Upper
198	100		
51	139.0	111.2	166.8
105	67.5	54.0	81.0



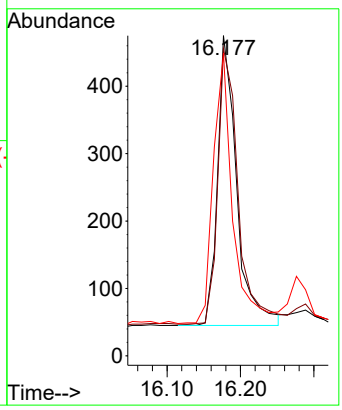


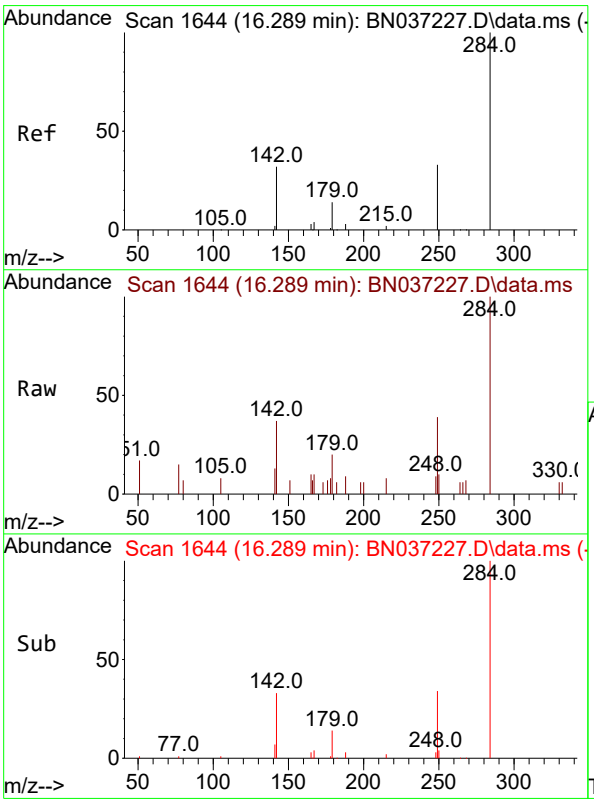
#21
4-Bromophenyl-phenylether
Concen: 0.375 ng
RT: 16.177 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:248 Resp: 780

Ion	Ratio	Lower	Upper
248	100		
250	96.0	76.8	115.2
141	94.5	75.6	113.4

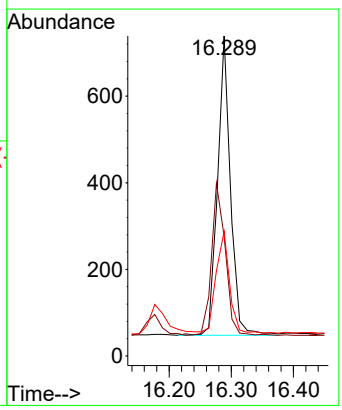


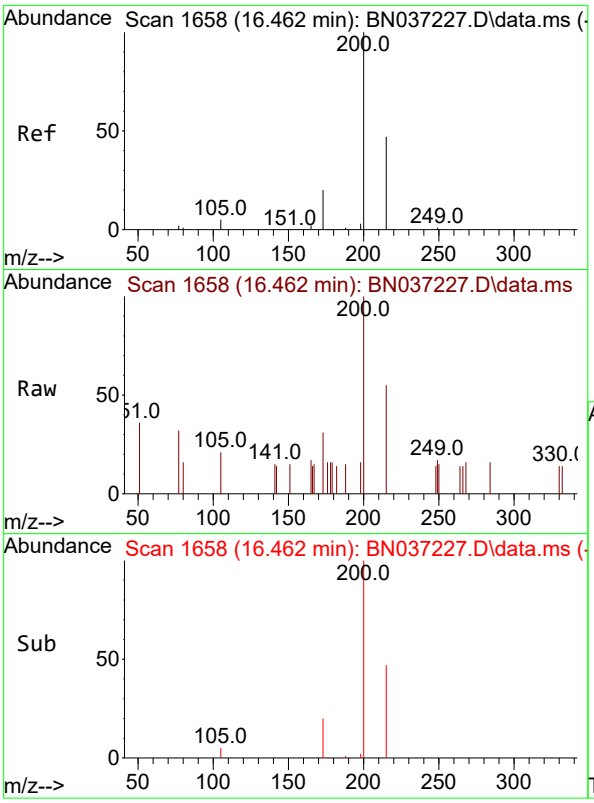


#22
Hexachlorobenzene
Concen: 0.412 ng
RT: 16.289 min Scan# 1644
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

Tgt Ion:284 Resp: 994

Ion	Ratio	Lower	Upper
284	100		
142	54.7	43.8	65.6
249	35.5	28.4	42.6



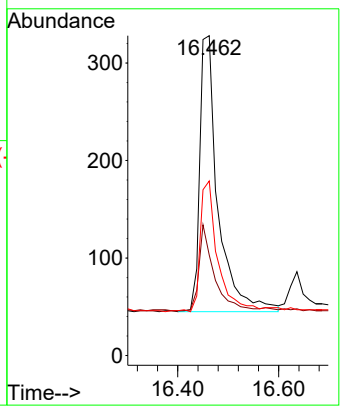


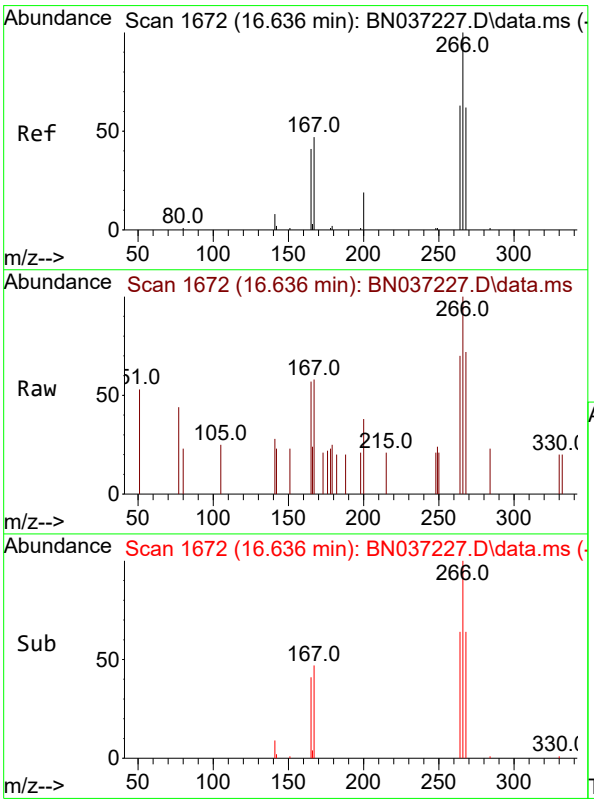
#23
Atrazine
Concen: 0.382 ng
RT: 16.462 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:200 Resp: 710

Ion	Ratio	Lower	Upper
200	100		
173	31.4	25.1	37.7
215	54.6	43.7	65.5

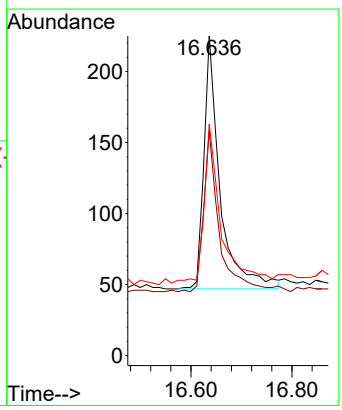


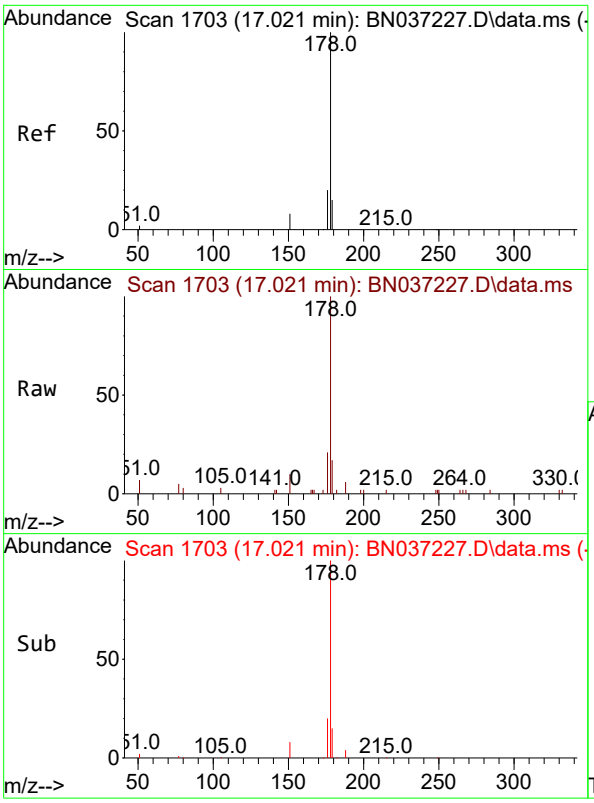


#24
Pentachlorophenol
Concen: 0.336 ng
RT: 16.636 min Scan# 1672
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

Tgt Ion:266 Resp: 397

Ion	Ratio	Lower	Upper
266	100		
264	61.5	49.2	73.8
268	66.8	53.4	80.2



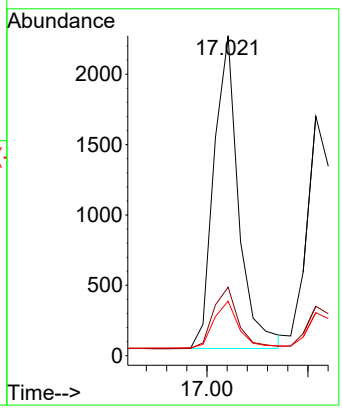


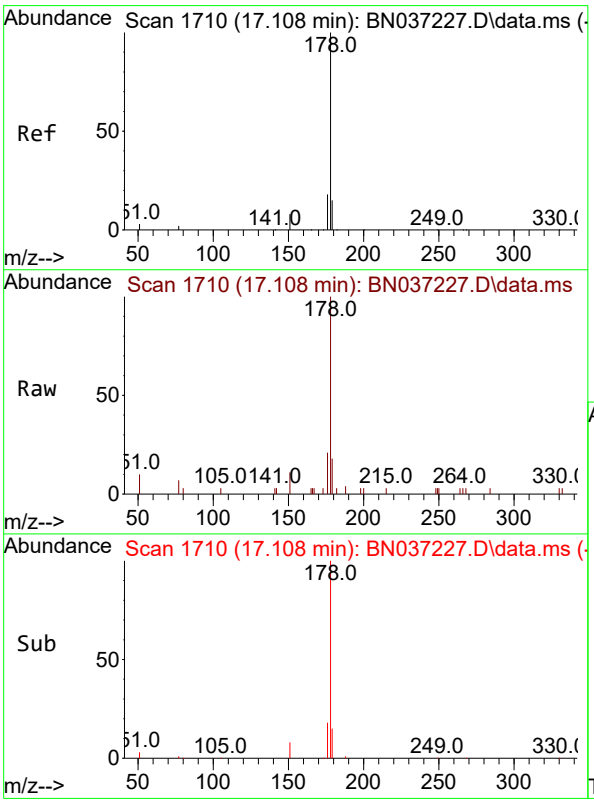
#25
Phenanthrene
Concen: 0.374 ng
RT: 17.021 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:178 Resp: 3790

Ion	Ratio	Lower	Upper
178	100		
176	20.4	16.3	24.5
179	15.7	12.6	18.8

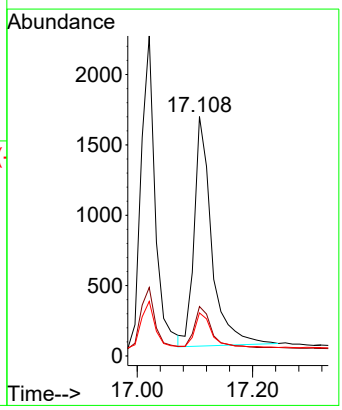


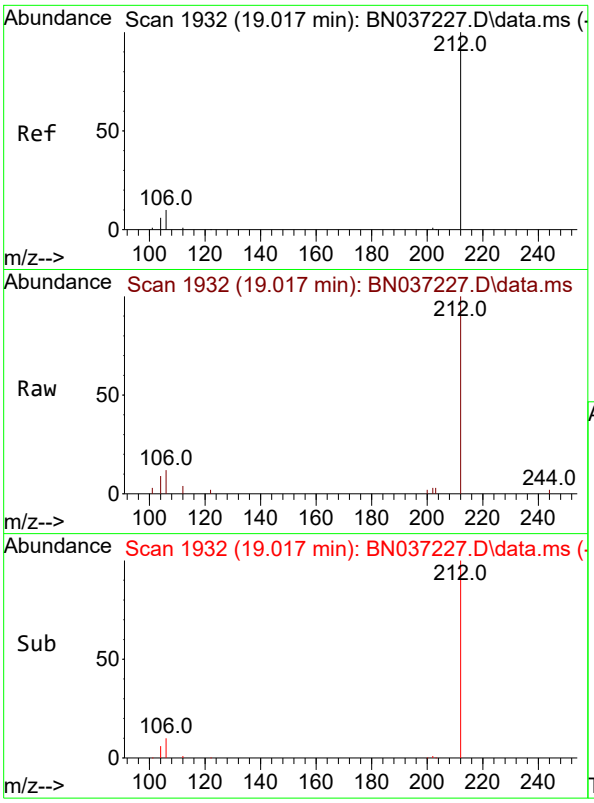


#26
Anthracene
Concen: 0.372 ng
RT: 17.108 min Scan# 1710
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

Tgt Ion:178 Resp: 3450

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.1	22.7
179	15.5	12.4	18.6



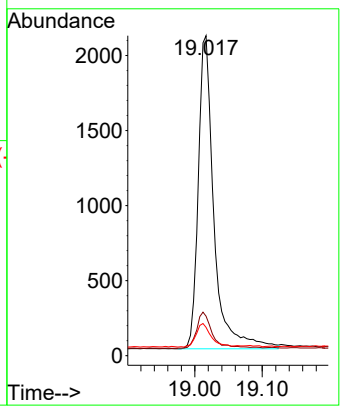


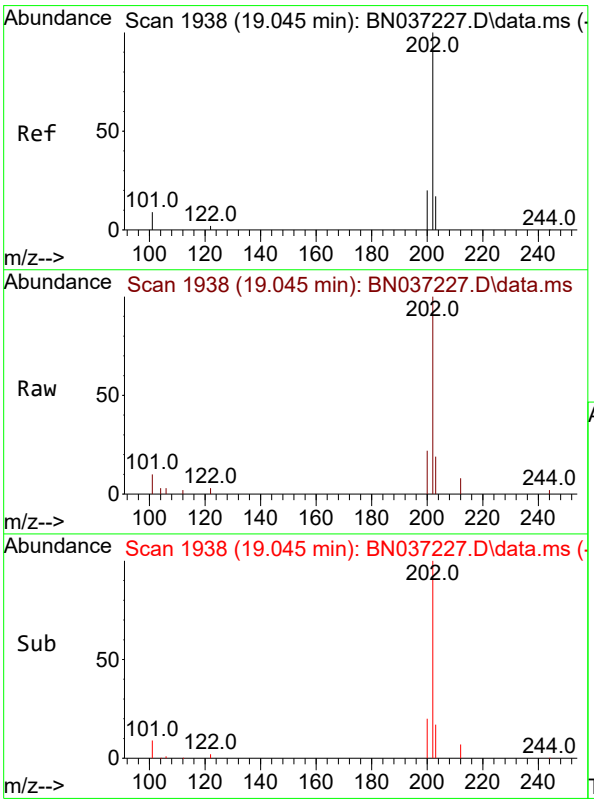
#27
Fluoranthene-d10
Concen: 0.402 ng
RT: 19.017 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:212 Resp: 3364

Ion	Ratio	Lower	Upper
212	100		
106	11.6	9.3	13.9
104	7.1	5.7	8.5

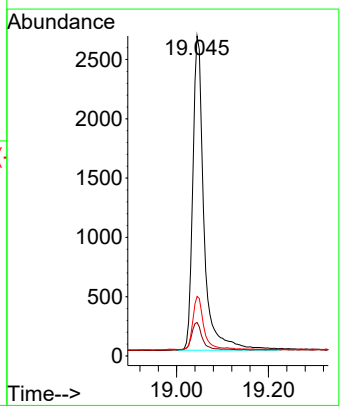


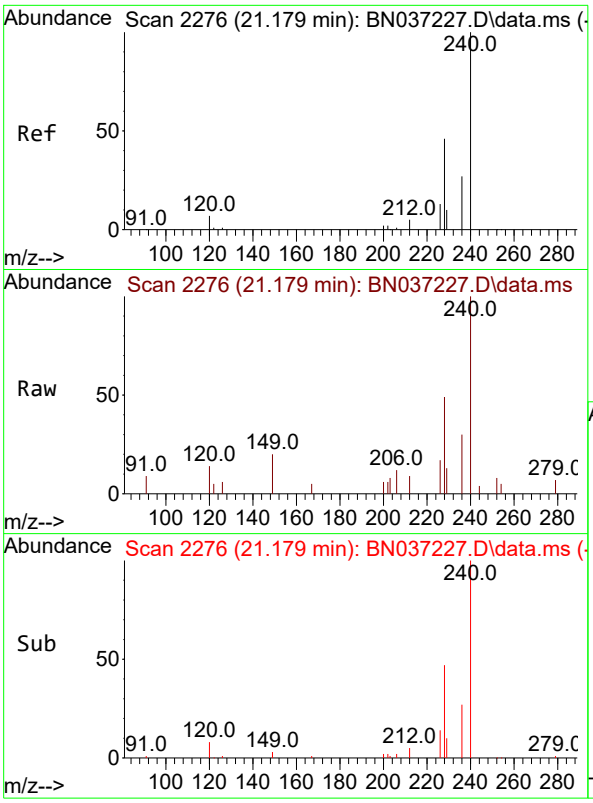


#28
Fluoranthene
Concen: 0.380 ng
RT: 19.045 min Scan# 1938
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

Tgt Ion:202 Resp: 4510

Ion	Ratio	Lower	Upper
202	100		
101	8.9	7.1	10.7
203	16.3	13.0	19.6



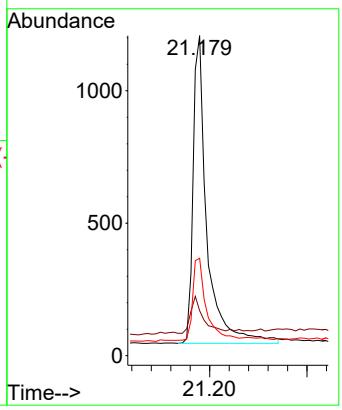


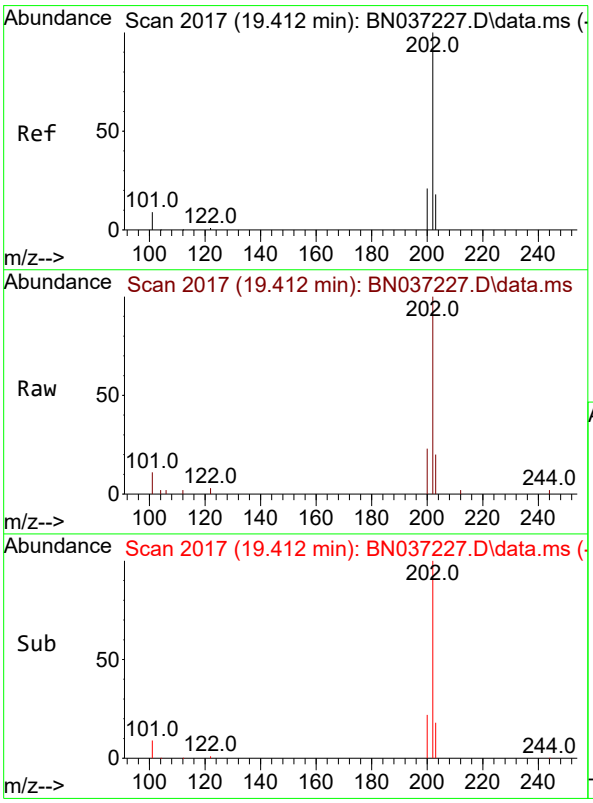
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.179 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:240 Resp: 2284

Ion	Ratio	Lower	Upper
240	100		
120	14.1	11.3	16.9
236	30.5	24.4	36.6

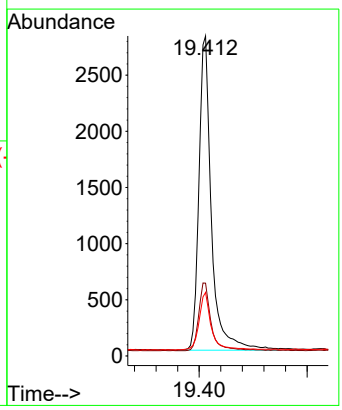


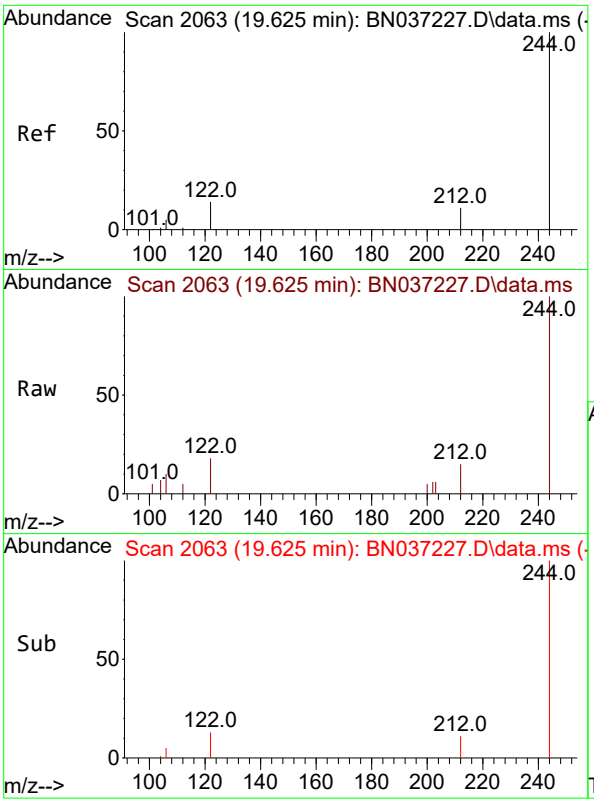


#30
Pyrene
Concen: 0.417 ng
RT: 19.412 min Scan# 2017
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

Tgt Ion:202 Resp: 4482

Ion	Ratio	Lower	Upper
202	100		
200	21.5	17.2	25.8
203	17.9	14.3	21.5



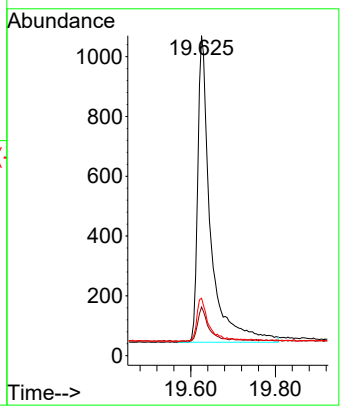


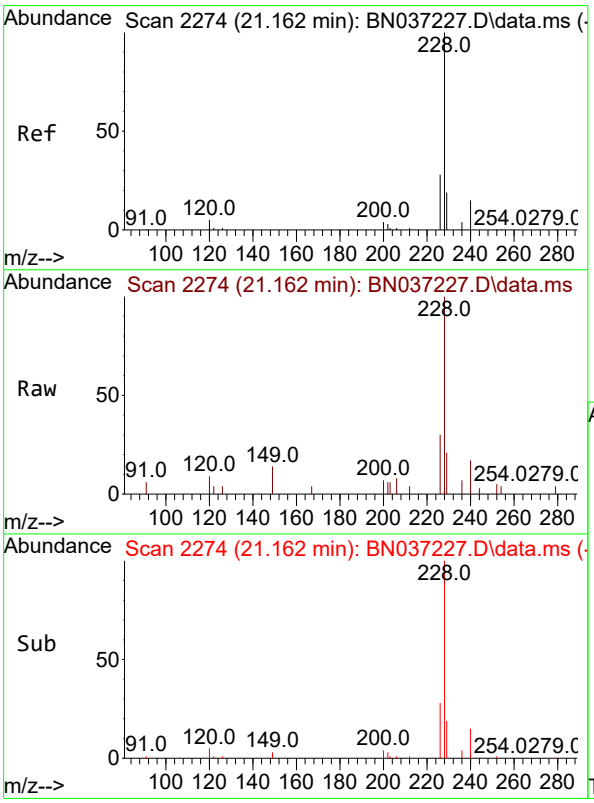
#31
Terphenyl-d14
Concen: 0.418 ng
RT: 19.625 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:244 Resp: 2160

Ion	Ratio	Lower	Upper
244	100		
212	15.2	12.2	18.2
122	17.9	14.3	21.5

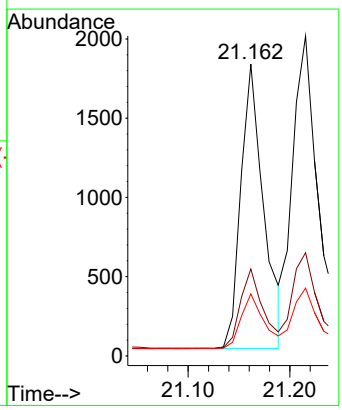


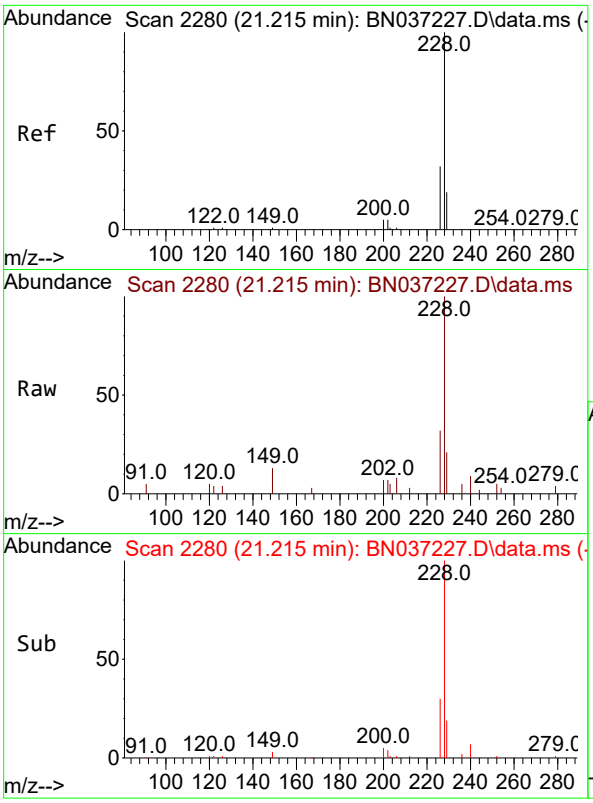


#32
Benzo(a)anthracene
Concen: 0.363 ng
RT: 21.162 min Scan# 2274
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

Tgt Ion:228 Resp: 2798

Ion	Ratio	Lower	Upper
228	100		
226	29.8	23.8	35.8
229	21.2	17.0	25.4



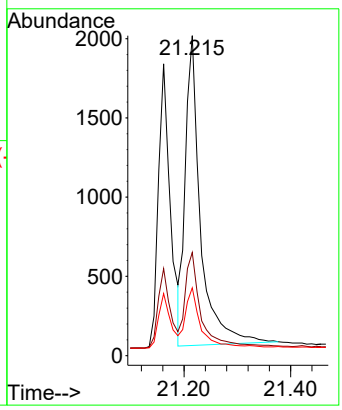


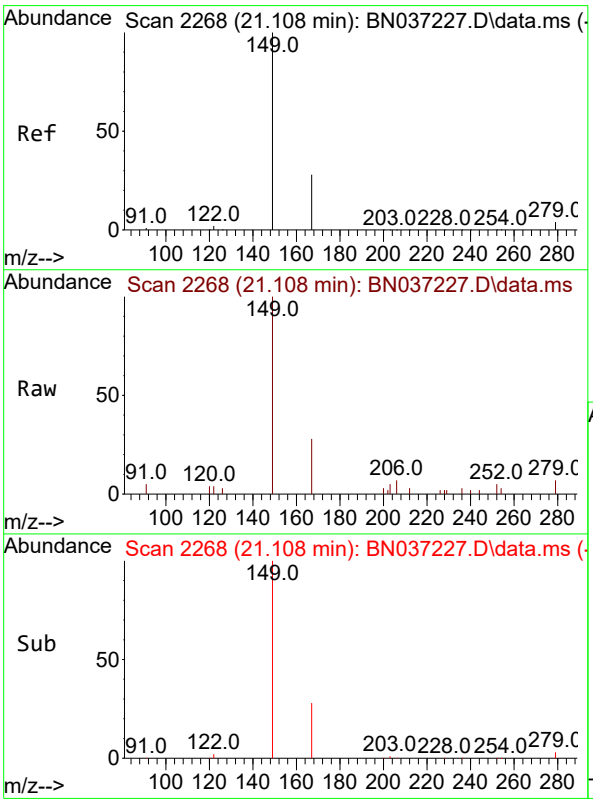
#33
Chrysene
Concen: 0.403 ng
RT: 21.215 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:228 Resp: 3871

Ion	Ratio	Lower	Upper
228	100		
226	32.2	25.8	38.6
229	21.2	17.0	25.4

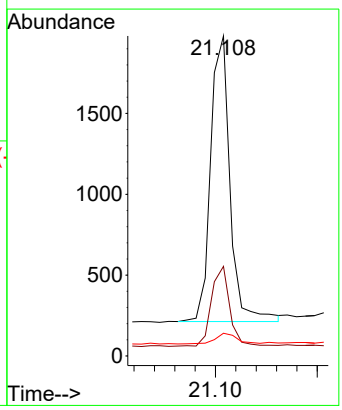


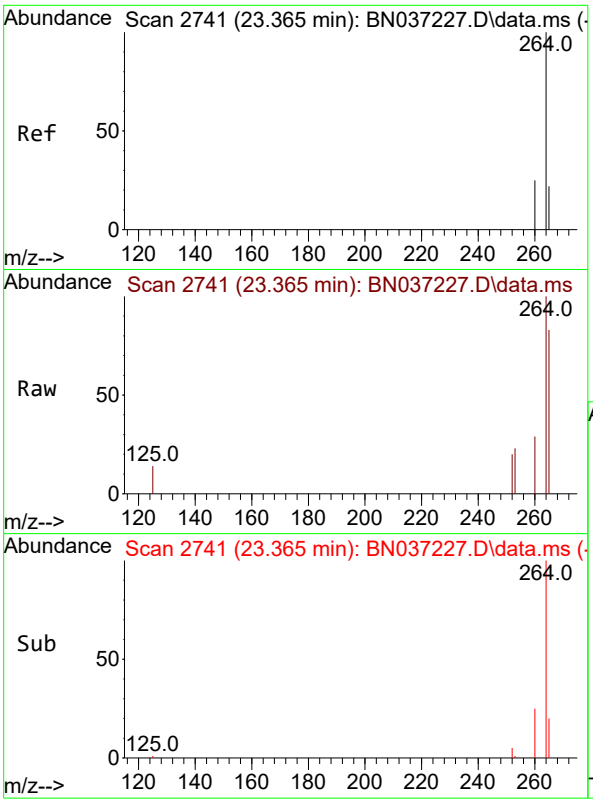


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.407 ng
RT: 21.108 min Scan# 2268
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

Tgt Ion:149 Resp: 2338

Ion	Ratio	Lower	Upper
149	100		
167	26.6	21.3	31.9
279	4.1	3.3	4.9



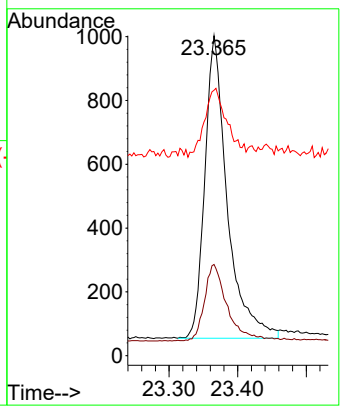


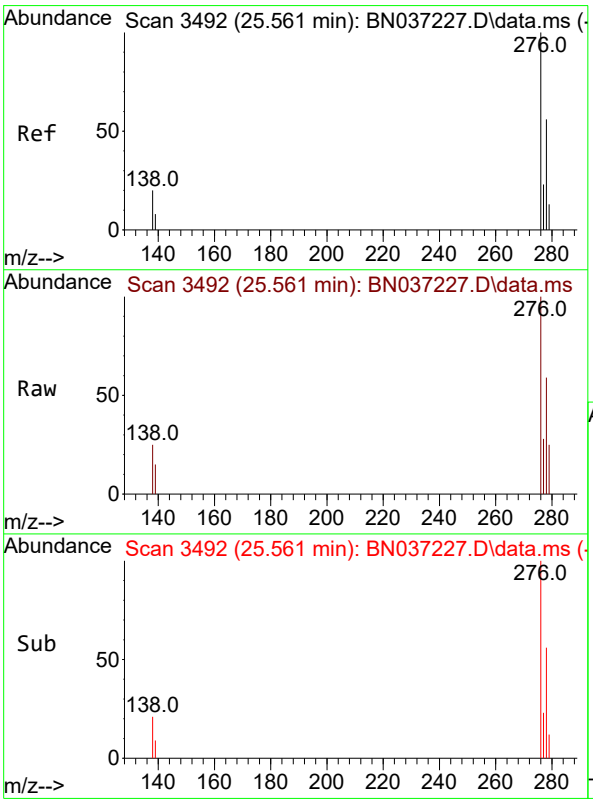
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.365 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:264 Resp: 2150

Ion	Ratio	Lower	Upper
264	100		
260	28.5	22.8	34.2
265	83.0	66.4	99.6

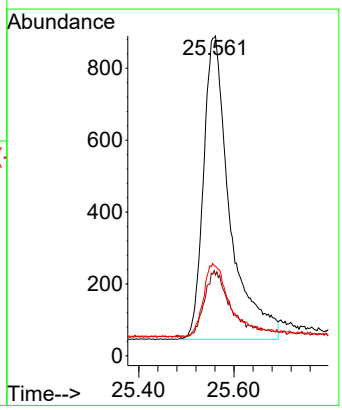


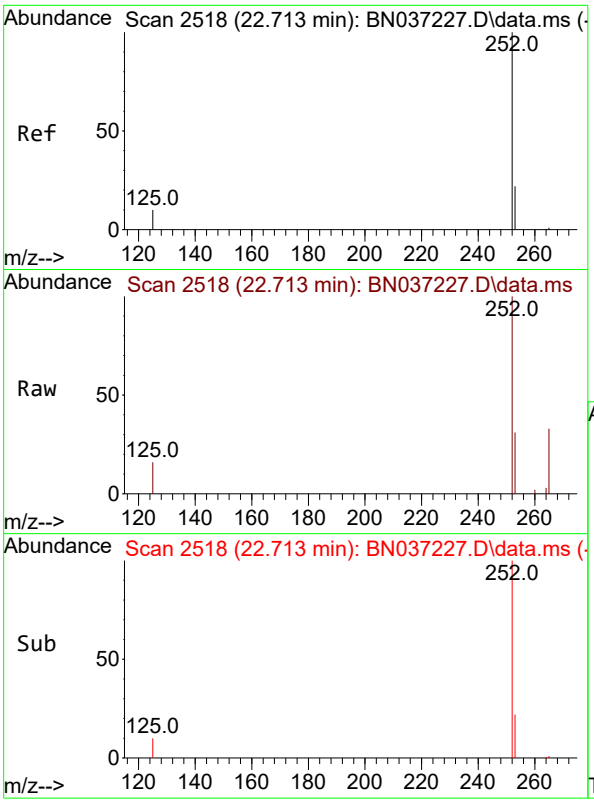


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.374 ng
RT: 25.561 min Scan# 3492
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

Tgt Ion:276 Resp: 3239

Ion	Ratio	Lower	Upper
276	100		
138	21.0	16.8	25.2
277	24.4	19.5	29.3



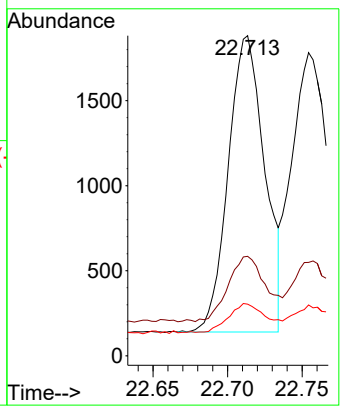


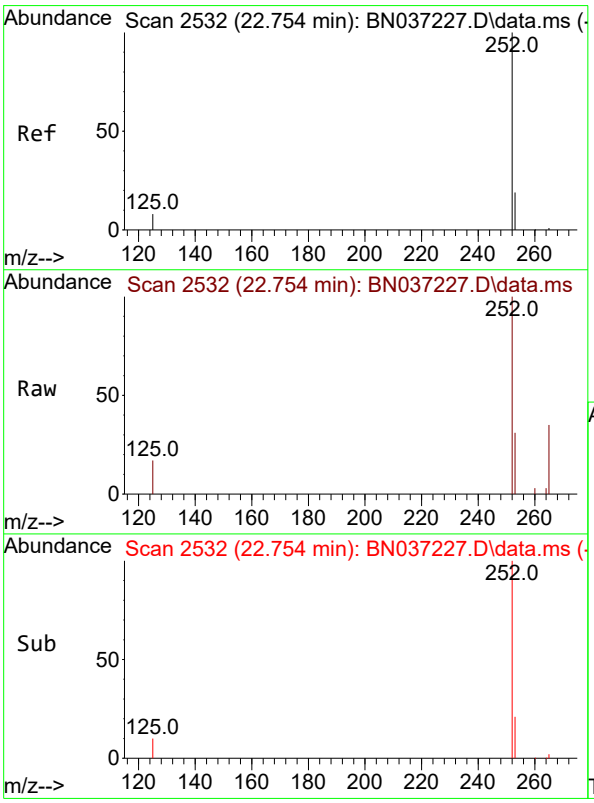
#37
Benzo(b)fluoranthene
Concen: 0.376 ng
RT: 22.713 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:252 Resp: 2958

Ion	Ratio	Lower	Upper
252	100		
253	31.1	24.9	37.3
125	16.1	12.9	19.3

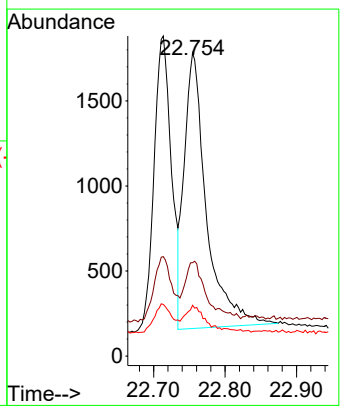


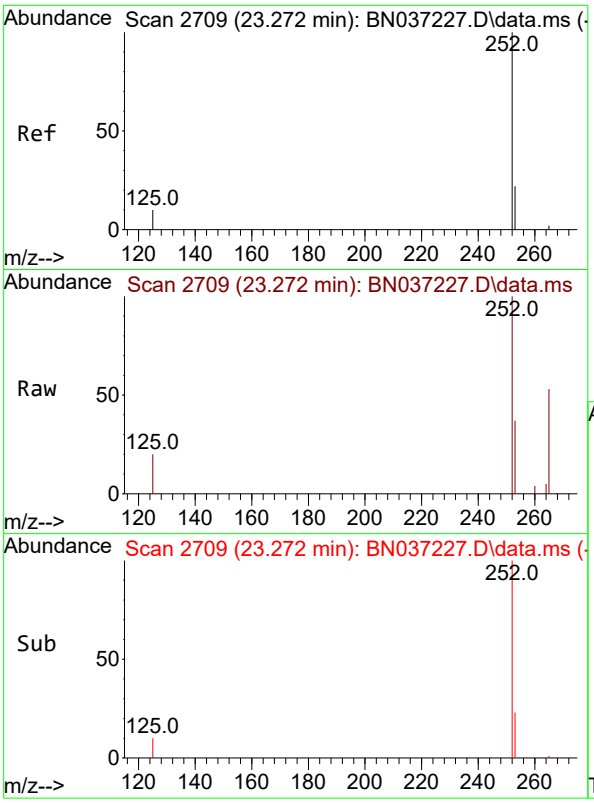


#38
Benzo(k)fluoranthene
Concen: 0.388 ng
RT: 22.754 min Scan# 2532
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

Tgt Ion:252 Resp: 3501

Ion	Ratio	Lower	Upper
252	100		
253	30.8	24.6	37.0
125	16.8	13.4	20.2



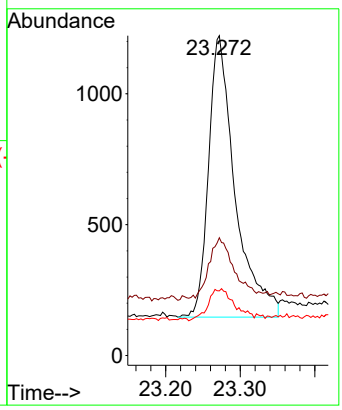


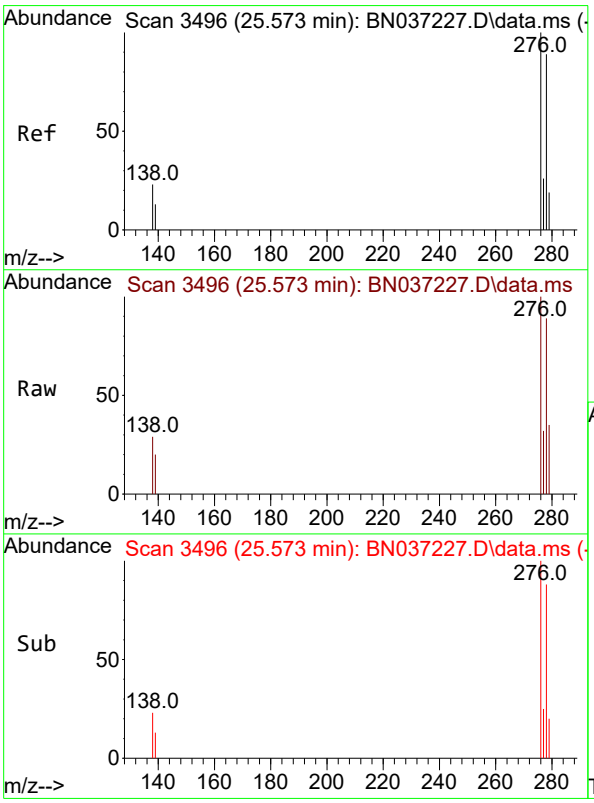
#39
Benzo(a)pyrene
Concen: 0.375 ng
RT: 23.272 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:252 Resp: 2653

Ion	Ratio	Lower	Upper
252	100		
253	36.8	29.4	44.2
125	20.2	16.2	24.2

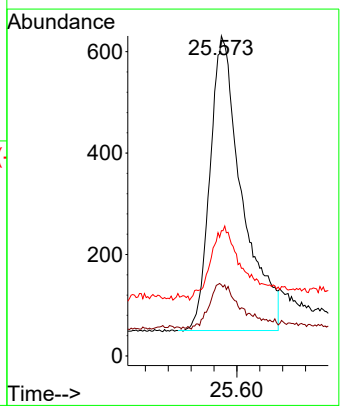


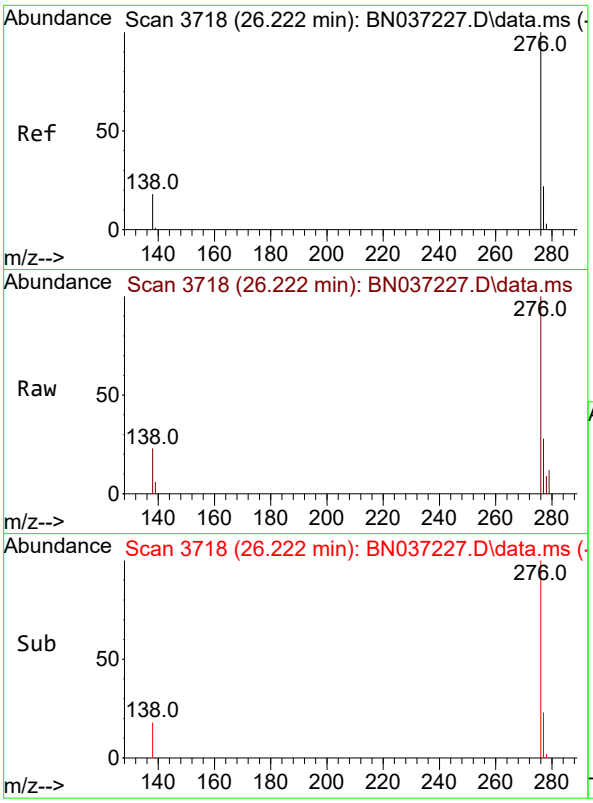


#40
Dibenzo(a,h)anthracene
Concen: 0.345 ng
RT: 25.573 min Scan# 3496
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

Tgt Ion:278 Resp: 2256

Ion	Ratio	Lower	Upper
278	100		
139	22.2	17.8	26.6
279	39.1	31.3	46.9



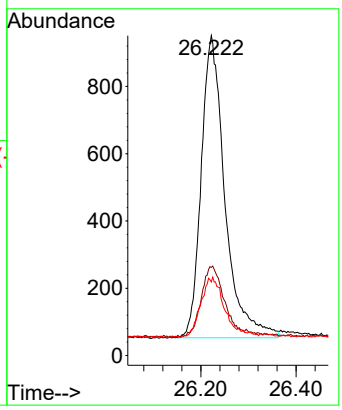


#41
Benzo(g,h,i)perylene
Concen: 0.385 ng
RT: 26.222 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:276 Resp: 3099

Ion	Ratio	Lower	Upper
276	100		
277	27.5	22.0	33.0
138	23.0	18.4	27.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037228.D
Acq On : 13 Jun 2025 15:22
Operator : RC/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Quant Time: Jun 13 18:37:39 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:34:15 2025
Response via : Initial Calibration

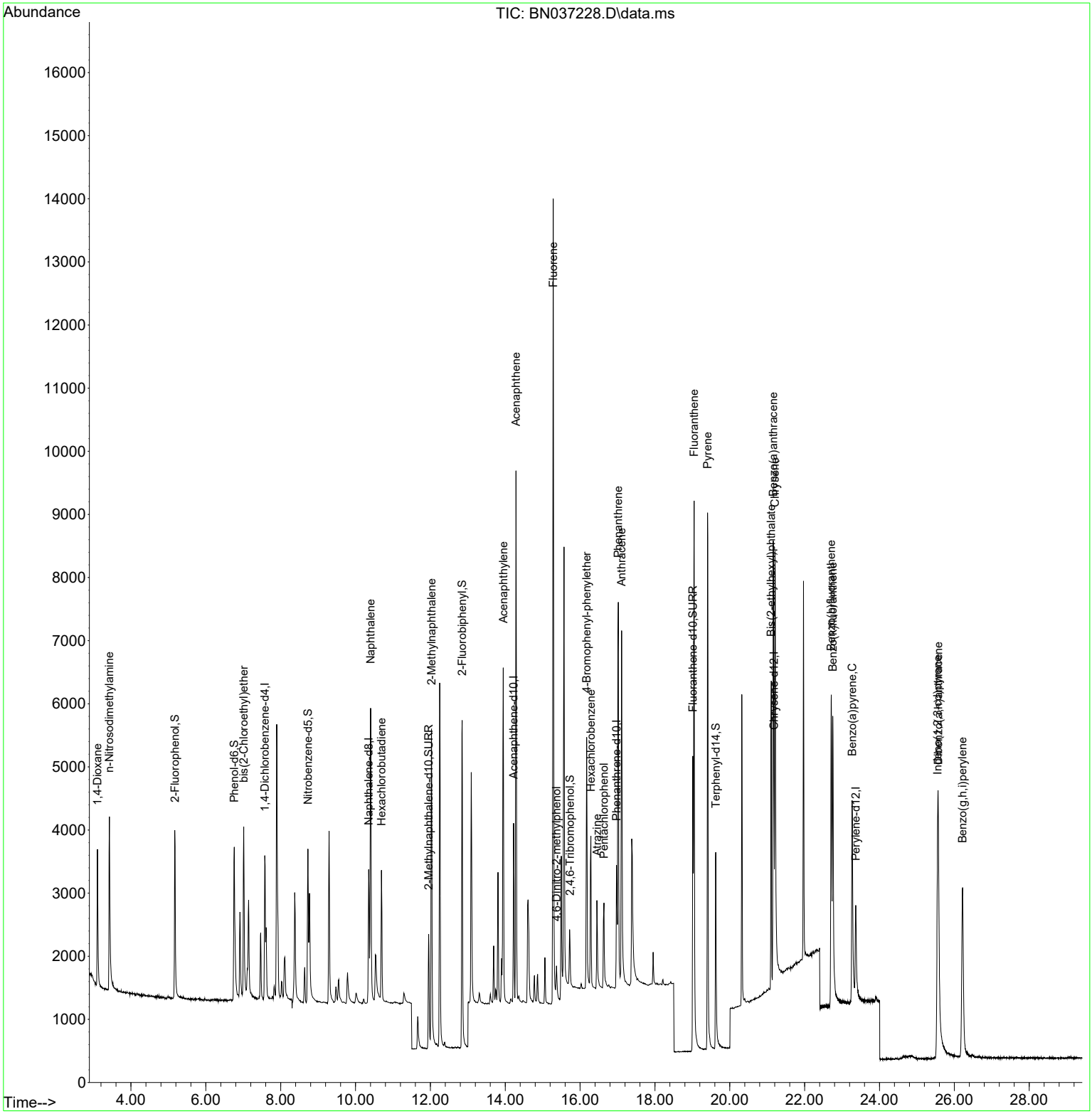
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.575	152	1134	0.400	ng		0.00
7) Naphthalene-d8	10.351	136	2810	0.400	ng		#-0.01
13) Acenaphthene-d10	14.224	164	1528	0.400	ng		0.00
19) Phenanthrene-d10	16.971	188	2916	0.400	ng		0.00
29) Chrysene-d12	21.180	240	2294	0.400	ng		0.00
35) Perylene-d12	23.365	264	2157	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.177	112	2057	0.739	ng		0.00
5) Phenol-d6	6.759	99	2237	0.762	ng		0.00
8) Nitrobenzene-d5	8.728	82	2118	0.763	ng		0.00
11) 2-Methylnaphthalene-d10	11.955	152	2923	0.775	ng		0.00
14) 2,4,6-Tribromophenol	15.730	330	524	0.826	ng		0.00
15) 2-Fluorobiphenyl	12.848	172	5066	0.789	ng		0.00
27) Fluoranthene-d10	19.012	212	5930	0.777	ng		0.00
31) Terphenyl-d14	19.625	244	3995	0.770	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.104	88	1213	0.780	ng		91
3) n-Nitrosodimethylamine	3.422	42	2739	0.773	ng		98
6) bis(2-Chloroethyl)ether	7.011	93	2165	0.823	ng		90
9) Naphthalene	10.404	128	6231	0.766	ng		97
10) Hexachlorobutadiene	10.692	225	1523	0.769	ng	#	97
12) 2-Methylnaphthalene	12.031	142	3926	0.794	ng		99
16) Acenaphthylene	13.946	152	5851	0.781	ng		99
17) Acenaphthene	14.288	154	3758	0.778	ng		100
18) Fluorene	15.282	166	4919	0.792	ng		99
20) 4,6-Dinitro-2-methylph...	15.368	198	499	0.762	ng	#	77
21) 4-Bromophenyl-phenylether	16.177	248	1493	0.786	ng		91
22) Hexachlorobenzene	16.289	284	1655	0.751	ng		97
23) Atrazine	16.450	200	1327	0.783	ng		93
24) Pentachlorophenol	16.636	266	800	0.741	ng		99
25) Phenanthrene	17.021	178	7220	0.781	ng		99
26) Anthracene	17.108	178	6635	0.784	ng		99
28) Fluoranthene	19.045	202	8450	0.781	ng		99
30) Pyrene	19.407	202	8483	0.787	ng		99
32) Benzo(a)anthracene	21.162	228	6109	0.789	ng		98
33) Chrysene	21.206	228	7421	0.769	ng		99
34) Bis(2-ethylhexyl)phtha...	21.108	149	4590	0.796	ng		100
36) Indeno(1,2,3-cd)pyrene	25.552	276	6412	0.737	ng	#	88
37) Benzo(b)fluoranthene	22.711	252	6280	0.796	ng		91
38) Benzo(k)fluoranthene	22.752	252	7192	0.795	ng	#	92
39) Benzo(a)pyrene	23.269	252	5598	0.789	ng	#	88
40) Dibenzo(a,h)anthracene	25.570	278	4824	0.736	ng	#	88
41) Benzo(g,h,i)perylene	26.219	276	5978	0.741	ng		98

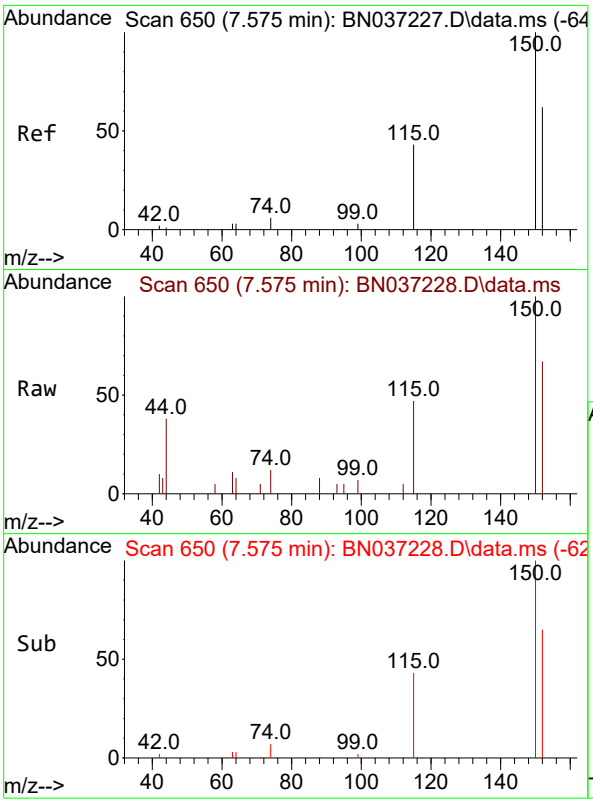
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037228.D
Acq On : 13 Jun 2025 15:22
Operator : RC/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Quant Time: Jun 13 18:37:39 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:34:15 2025
Response via : Initial Calibration



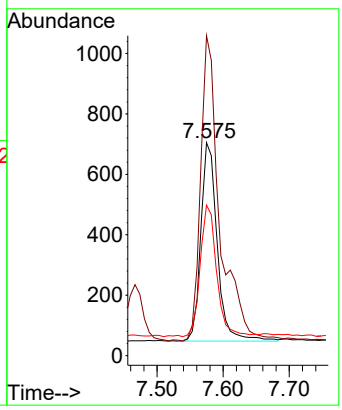


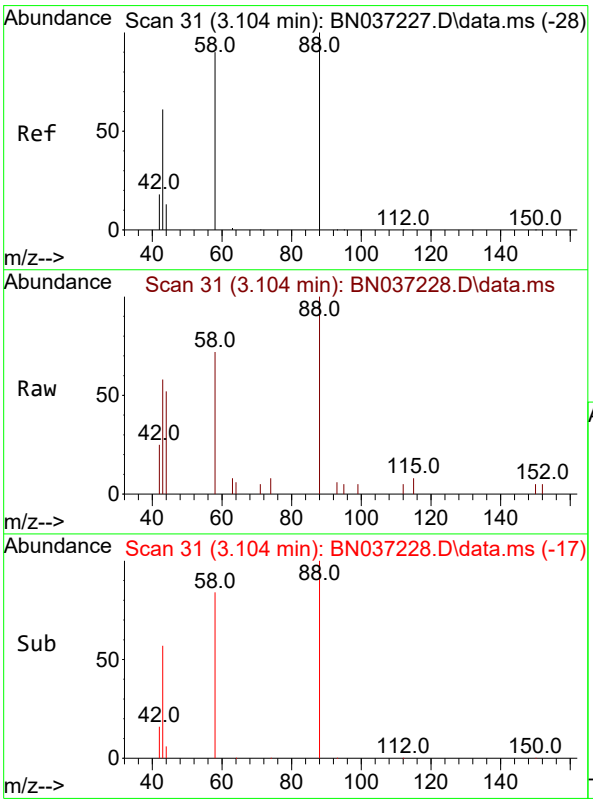
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:152 Resp: 1134

Ion	Ratio	Lower	Upper
152	100		
150	150.2	125.2	187.8
115	70.6	58.4	87.6

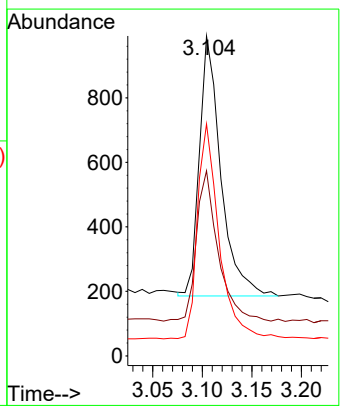


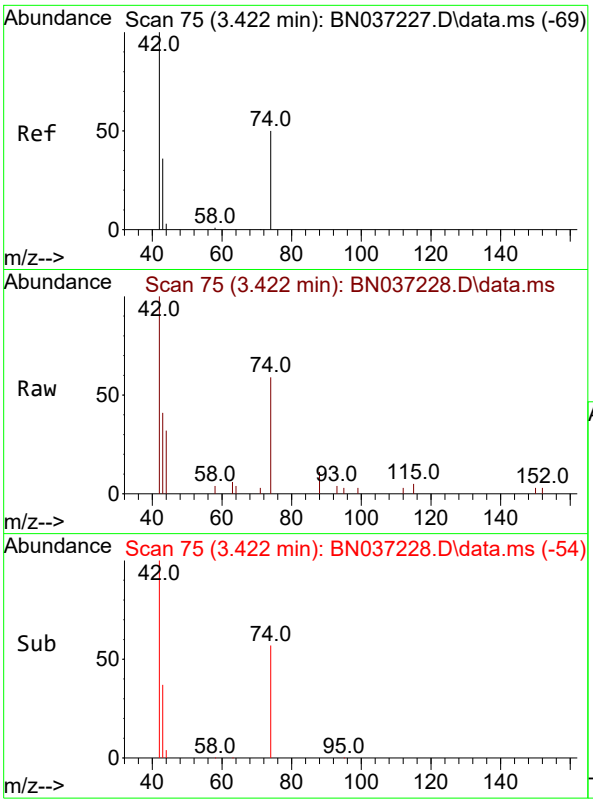


#2
1,4-Dioxane
Concen: 0.780 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

Tgt Ion: 88 Resp: 1213

Ion	Ratio	Lower	Upper
88	100		
43	58.5	52.6	79.0
58	83.3	73.5	110.3



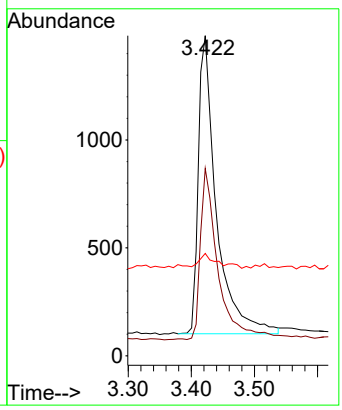


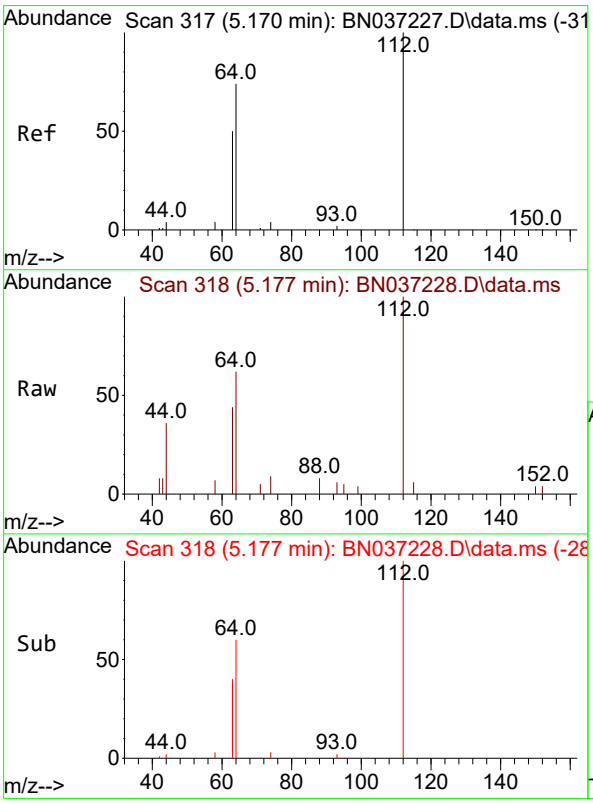
#3
n-Nitrosodimethylamine
Concen: 0.773 ng
RT: 3.422 min Scan# 7
Delta R.T. 0.000 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion: 42 Resp: 2739

Ion	Ratio	Lower	Upper
42	100		
74	56.8	44.6	66.8
44	4.9	3.5	5.3

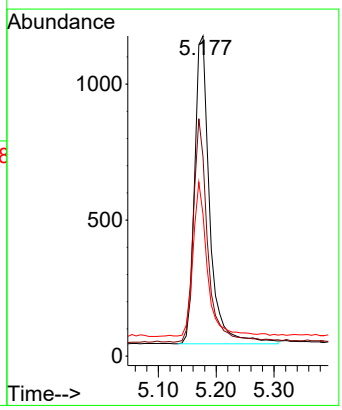


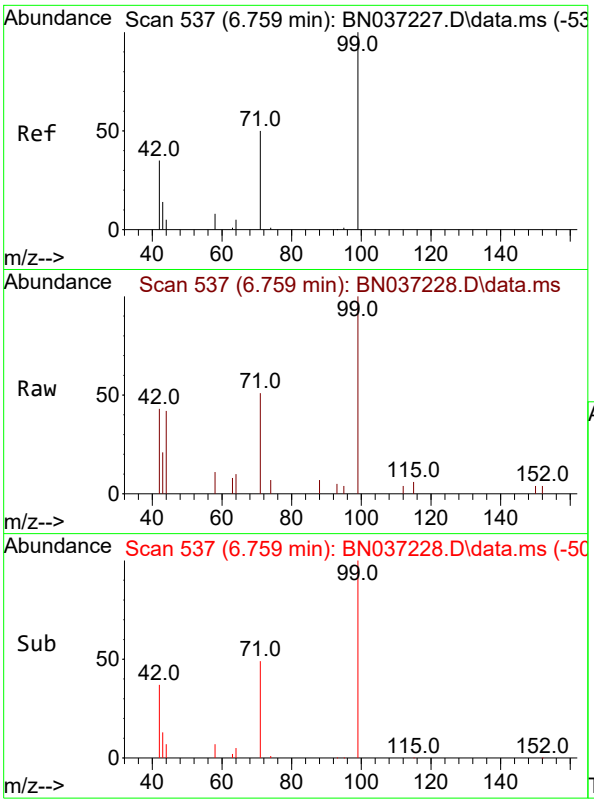


#4
2-Fluorophenol
Concen: 0.739 ng
RT: 5.177 min Scan# 318
Delta R.T. 0.007 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

Tgt Ion:112 Resp: 2057

Ion	Ratio	Lower	Upper
112	100		
64	70.2	57.2	85.8
63	46.4	39.8	59.6



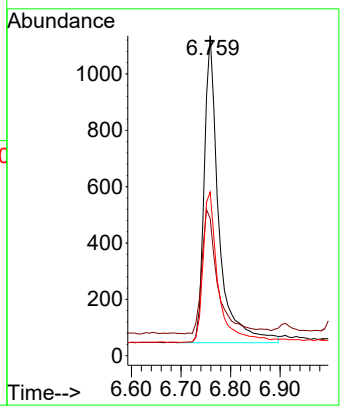


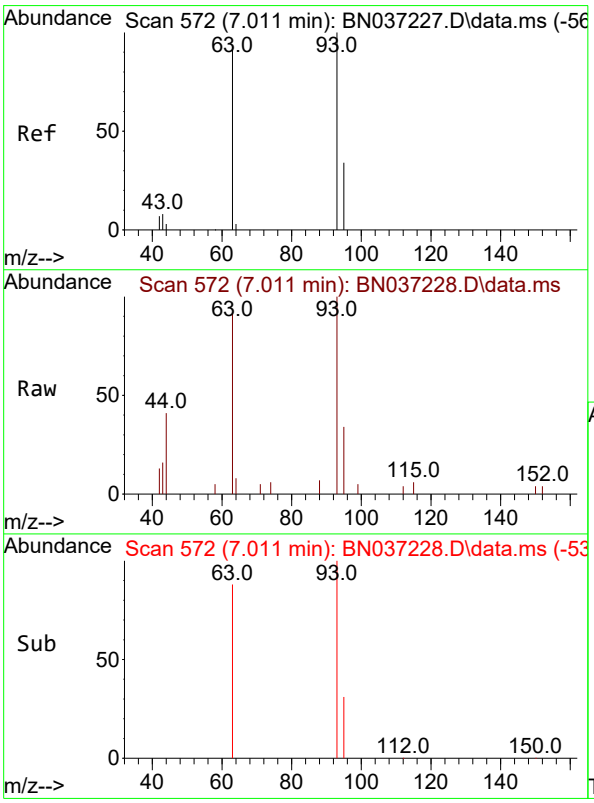
#5
Phenol-d6
Concen: 0.762 ng
RT: 6.759 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion: 99 Resp: 2237

Ion	Ratio	Lower	Upper
99	100		
42	43.8	36.2	54.4
71	50.7	42.4	63.6

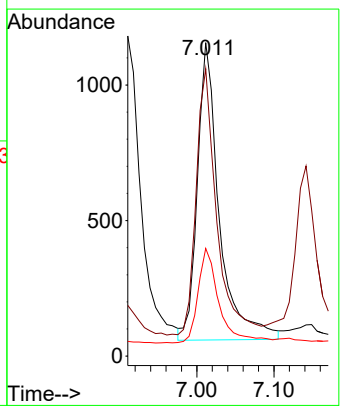


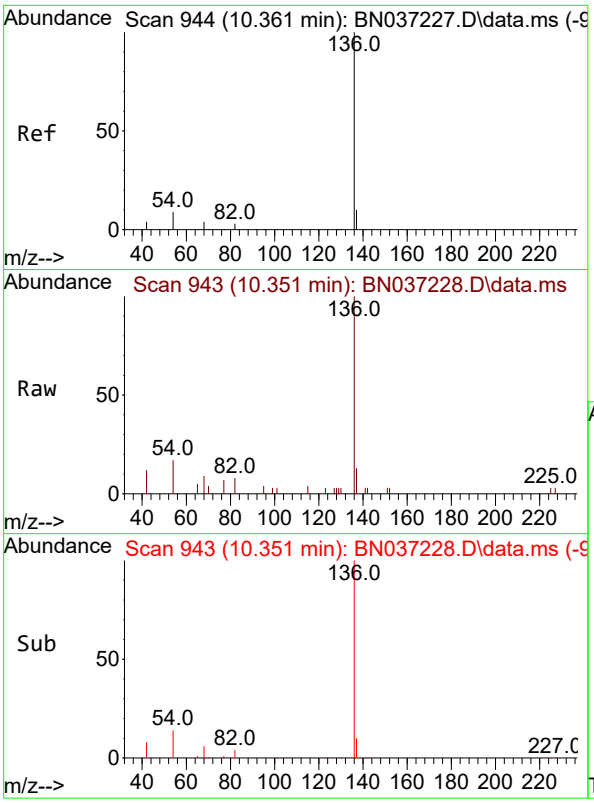


#6
bis(2-Chloroethyl)ether
Concen: 0.823 ng
RT: 7.011 min Scan# 572
Delta R.T. 0.000 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

Tgt Ion: 93 Resp: 2165

Ion	Ratio	Lower	Upper
93	100		
63	83.9	75.2	112.8
95	30.8	28.3	42.5



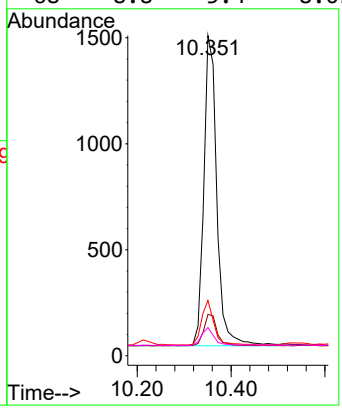


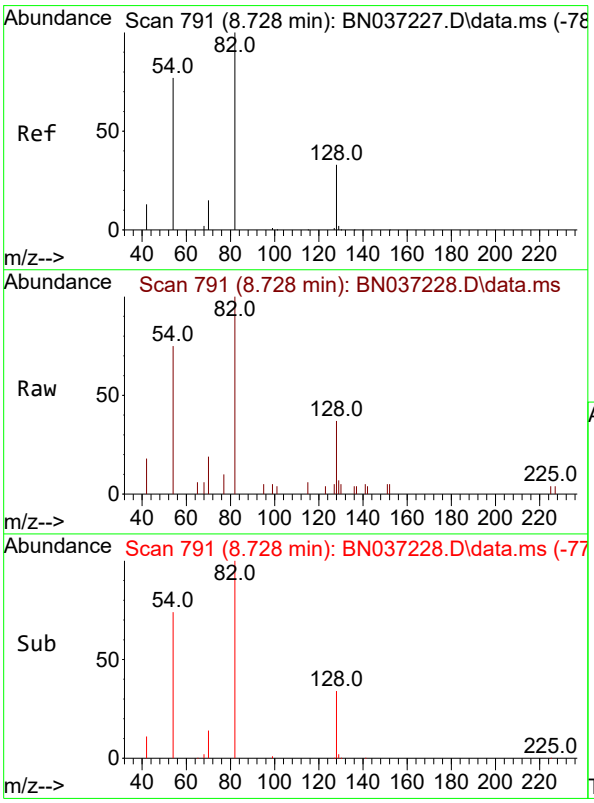
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:136 Resp: 2810

Ion	Ratio	Lower	Upper
136	100		
137	12.9	10.6	15.8
54	17.3	9.2	13.8#
68	8.8	5.4	8.0#

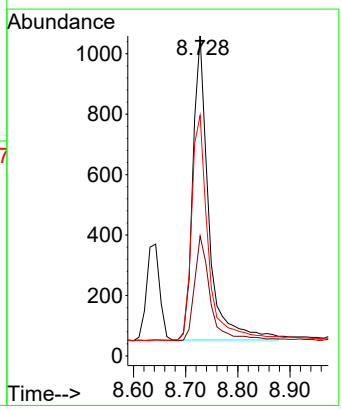


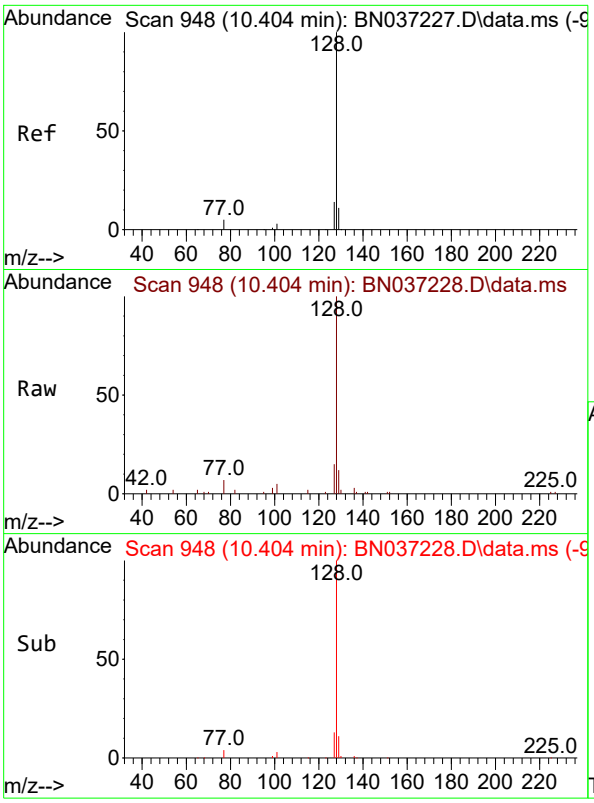


#8
Nitrobenzene-d5
Concen: 0.763 ng
RT: 8.728 min Scan# 791
Delta R.T. 0.000 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

Tgt Ion: 82 Resp: 2118

Ion	Ratio	Lower	Upper
82	100		
128	37.5	31.2	46.8
54	75.2	63.3	94.9



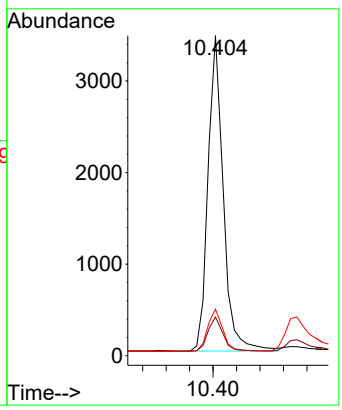


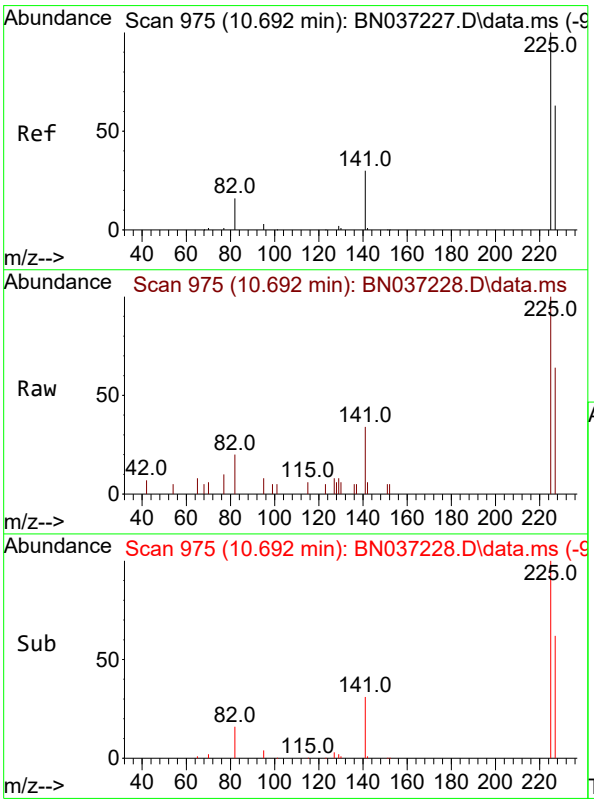
#9
Naphthalene
Concen: 0.766 ng
RT: 10.404 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:128 Resp: 6231

Ion	Ratio	Lower	Upper
128	100		
129	12.1	10.7	16.1
127	14.5	12.6	19.0

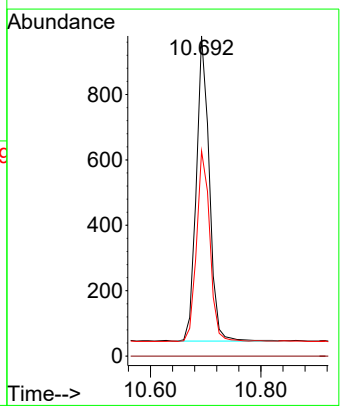


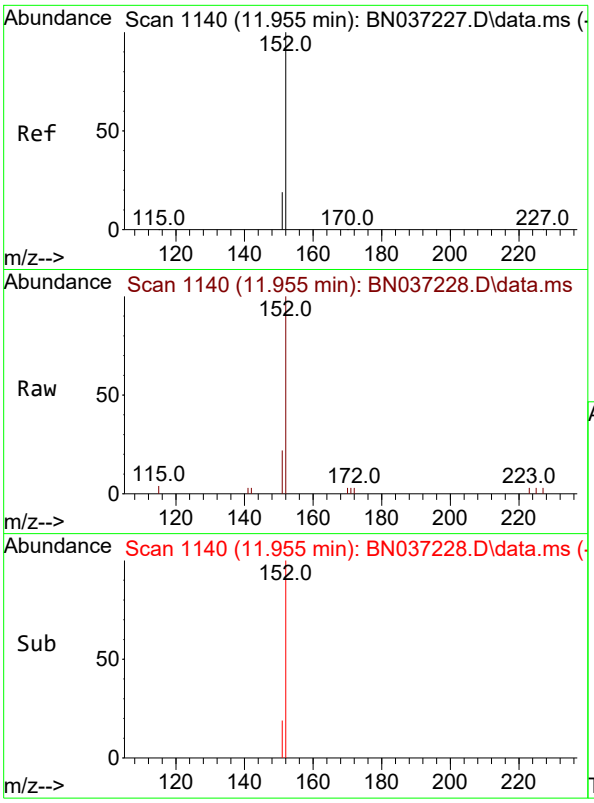


#10
Hexachlorobutadiene
Concen: 0.769 ng
RT: 10.692 min Scan# 975
Delta R.T. 0.000 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

Tgt Ion:225 Resp: 1523

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.8	49.2	73.8



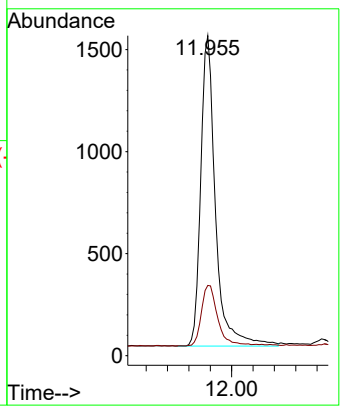


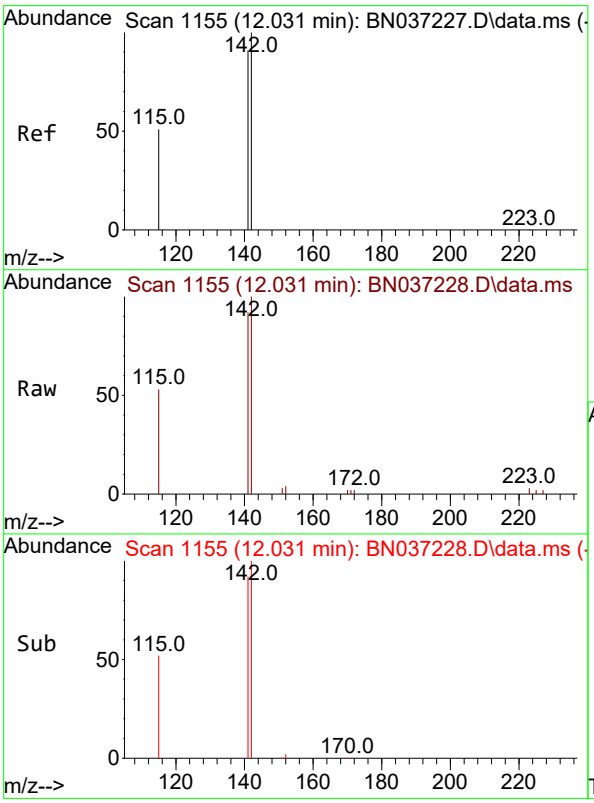
#11
2-Methylnaphthalene-d10
Concen: 0.775 ng
RT: 11.955 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:152 Resp: 2923

Ion	Ratio	Lower	Upper
152	100		
151	21.5	17.9	26.9

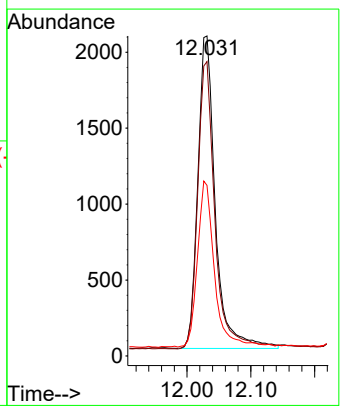


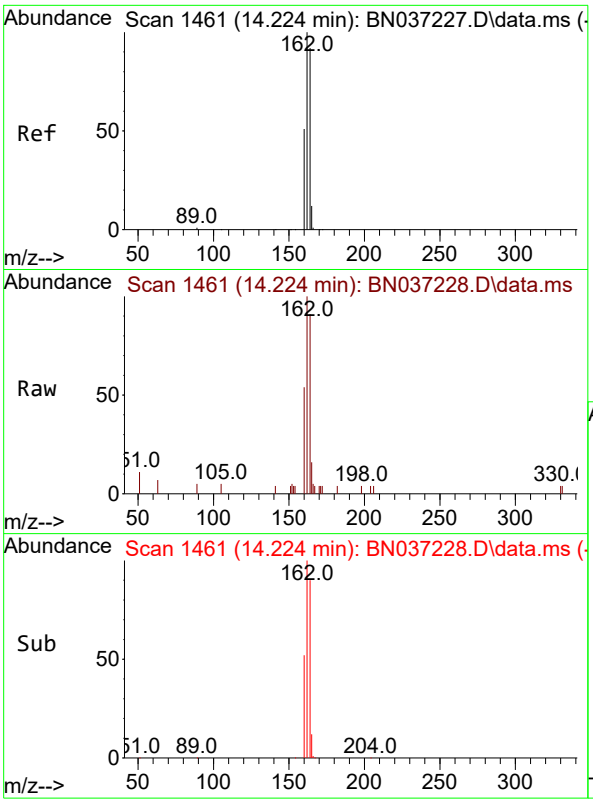


#12
2-Methylnaphthalene
Concen: 0.794 ng
RT: 12.031 min Scan# 1155
Delta R.T. 0.000 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

Tgt Ion:142 Resp: 3926

Ion	Ratio	Lower	Upper
142	100		
141	92.0	73.0	109.6
115	53.3	43.3	64.9



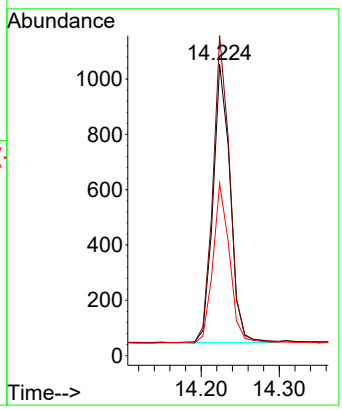


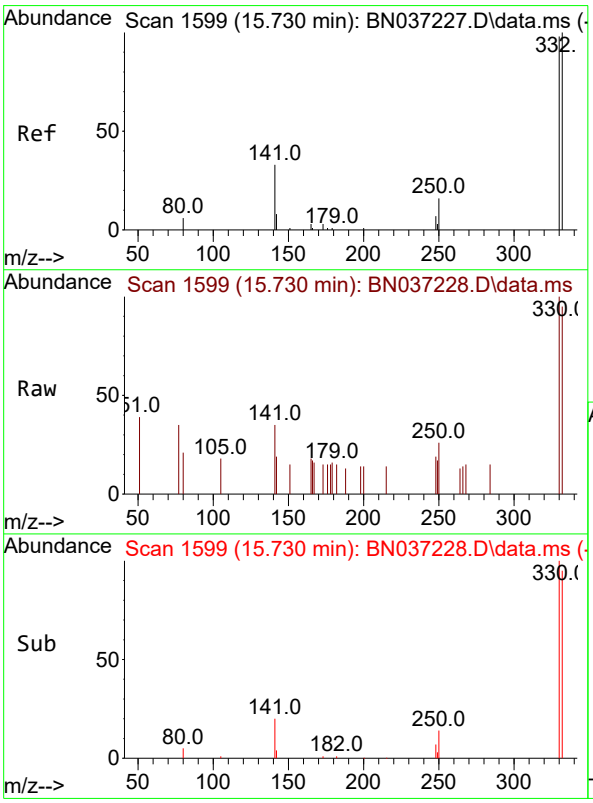
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:164 Resp: 1528

Ion	Ratio	Lower	Upper
164	100		
162	109.9	86.7	130.1
160	59.2	45.8	68.6

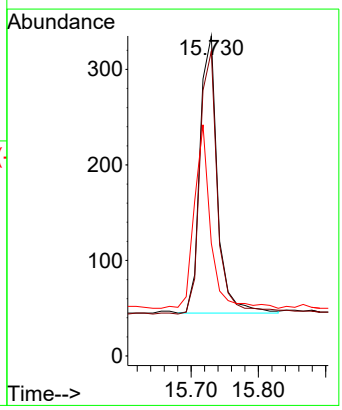


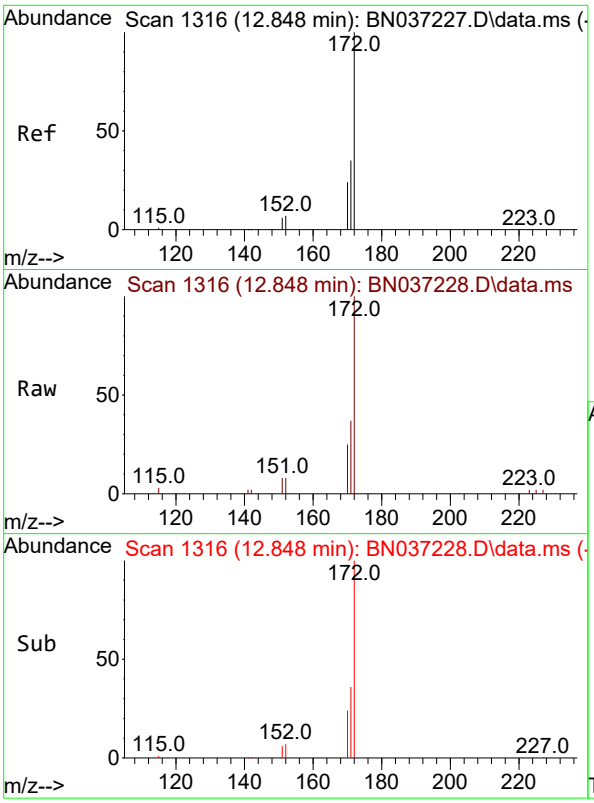


#14
2,4,6-Tribromophenol
Concen: 0.826 ng
RT: 15.730 min Scan# 1599
Delta R.T. 0.000 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

Tgt Ion:330 Resp: 524

Ion	Ratio	Lower	Upper
330	100		
332	98.1	74.9	112.3
141	61.5	45.1	67.7



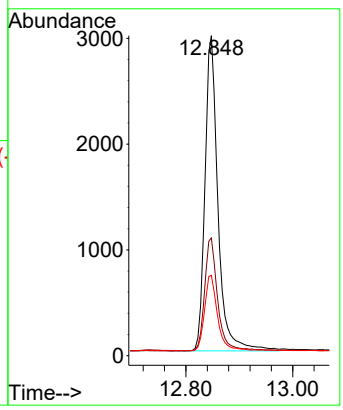


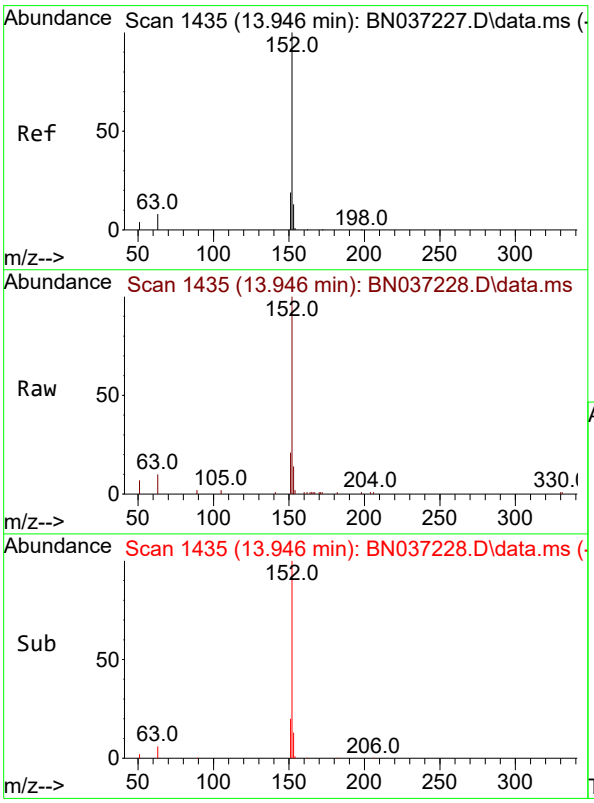
#15
2-Fluorobiphenyl
Concen: 0.789 ng
RT: 12.848 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:172 Resp: 5066

Ion	Ratio	Lower	Upper
172	100		
171	36.8	29.8	44.8
170	25.1	21.1	31.7

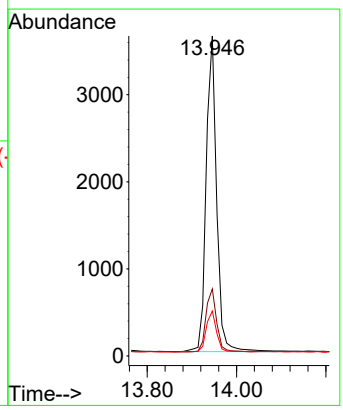


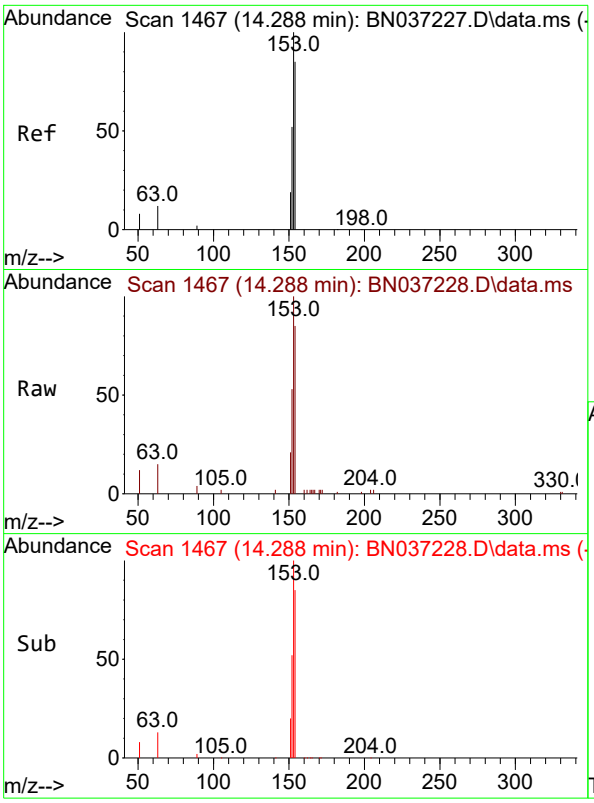


#16
Acenaphthylene
Concen: 0.781 ng
RT: 13.946 min Scan# 1435
Delta R.T. 0.000 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

Tgt Ion:152 Resp: 5851

Ion	Ratio	Lower	Upper
152	100		
151	20.1	15.7	23.5
153	12.9	10.7	16.1



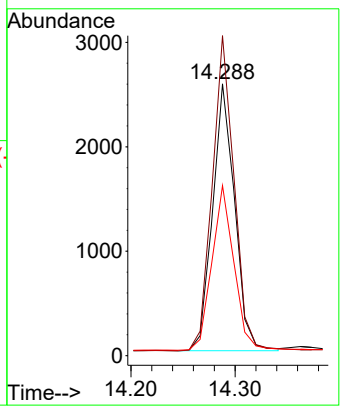


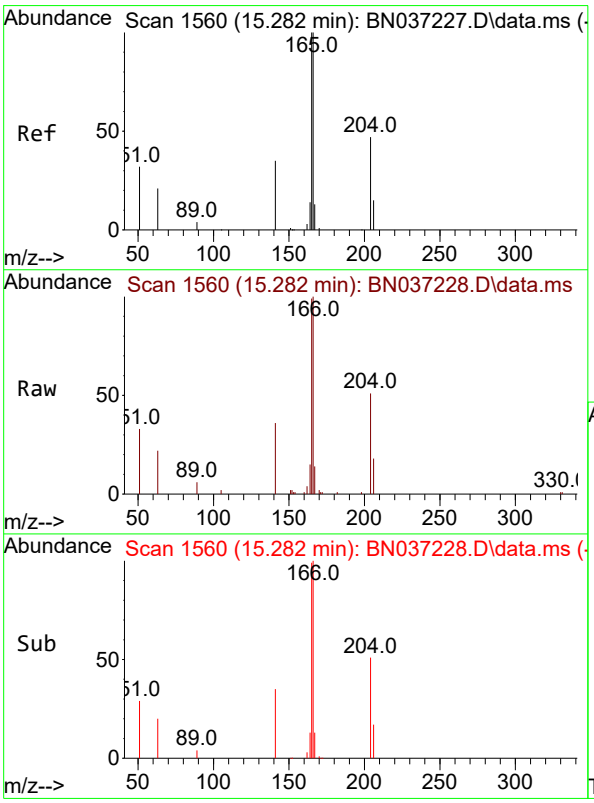
#17
Acenaphthene
Concen: 0.778 ng
RT: 14.288 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:154 Resp: 3758

Ion	Ratio	Lower	Upper
154	100		
153	117.6	94.6	141.8
152	62.3	49.6	74.4

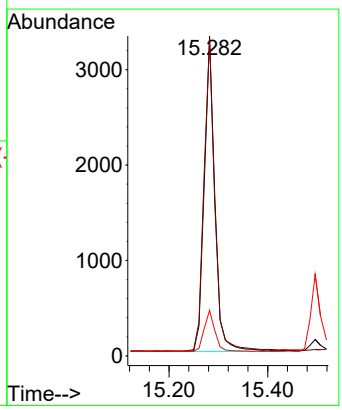


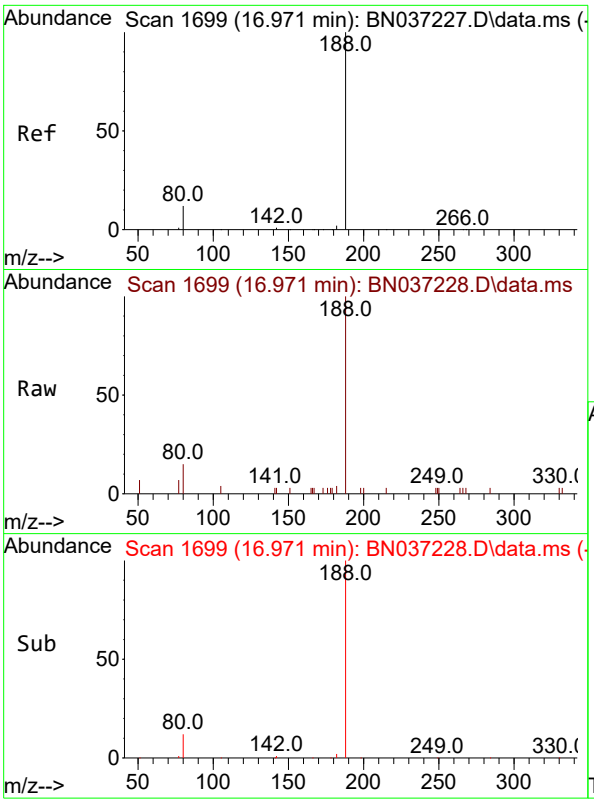


#18
Fluorene
Concen: 0.792 ng
RT: 15.282 min Scan# 1560
Delta R.T. 0.000 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

Tgt Ion:166 Resp: 4919

Ion	Ratio	Lower	Upper
166	100		
165	101.1	79.8	119.6
167	13.5	10.8	16.2



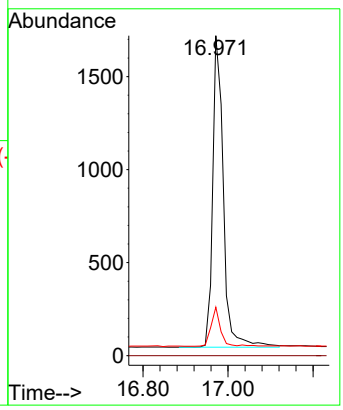


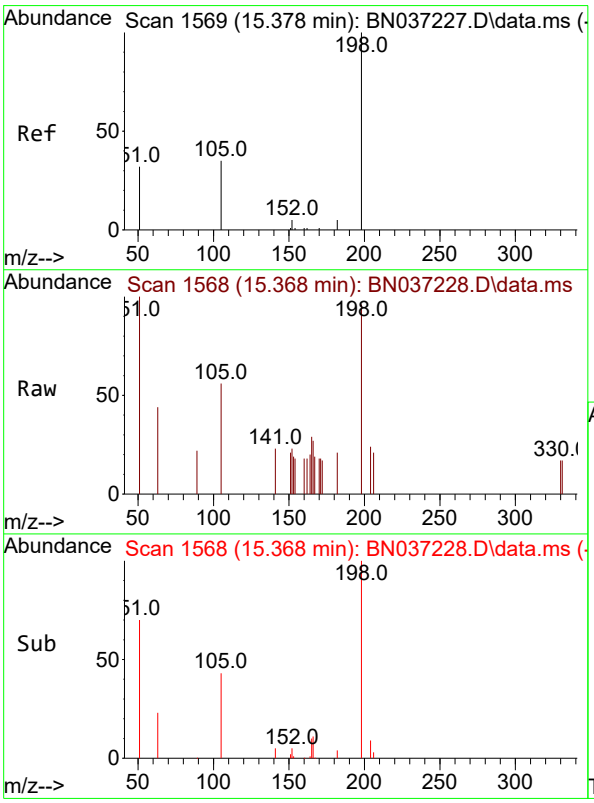
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:188 Resp: 2916

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	15.1	12.2	18.4

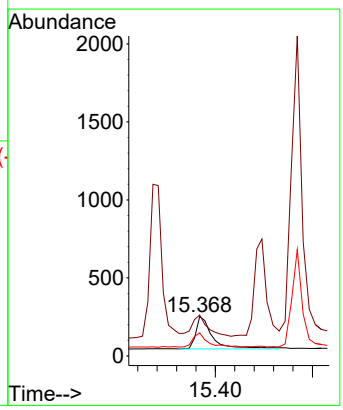


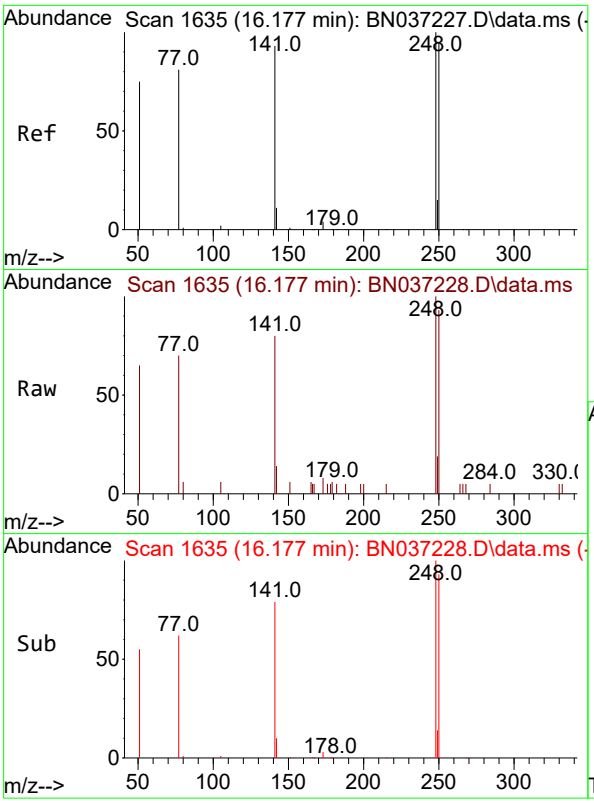


#20
4,6-Dinitro-2-methylphenol
Concen: 0.762 ng
RT: 15.368 min Scan# 1568
Delta R.T. -0.010 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

Tgt Ion:198 Resp: 499

Ion	Ratio	Lower	Upper
198	100		
51	104.0	111.2	166.8#
105	58.3	54.0	81.0



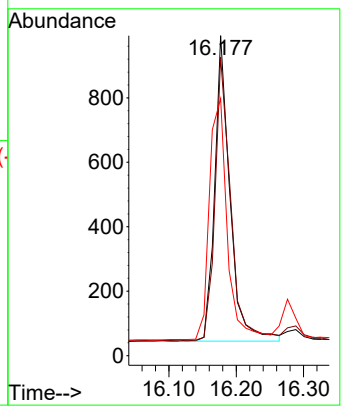


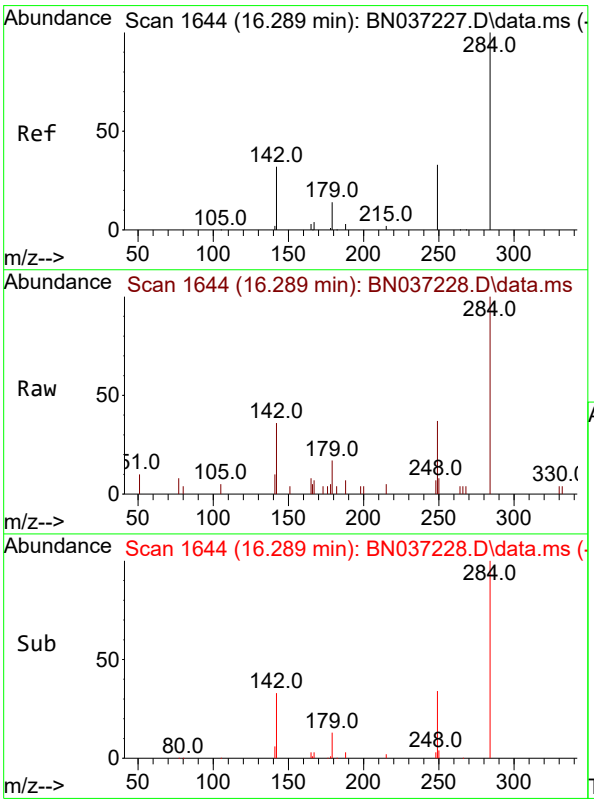
#21
4-Bromophenyl-phenylether
Concen: 0.786 ng
RT: 16.177 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:248 Resp: 1493

Ion	Ratio	Lower	Upper
248	100		
250	93.3	76.8	115.2
141	80.4	75.6	113.4

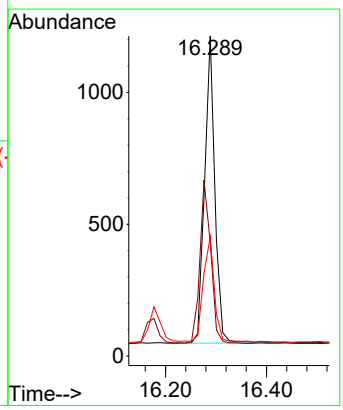


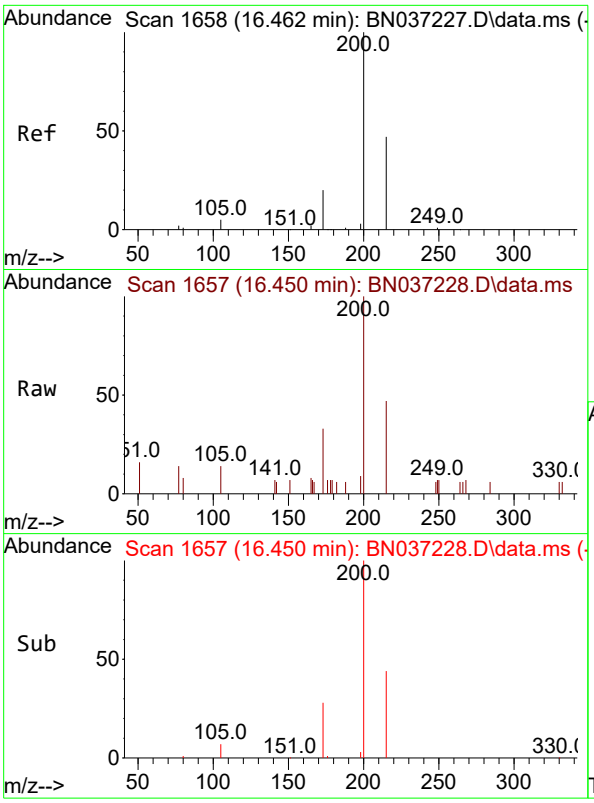


#22
Hexachlorobenzene
Concen: 0.751 ng
RT: 16.289 min Scan# 1644
Delta R.T. 0.000 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

Tgt Ion:284 Resp: 1655

Ion	Ratio	Lower	Upper
284	100		
142	56.3	43.8	65.6
249	37.4	28.4	42.6



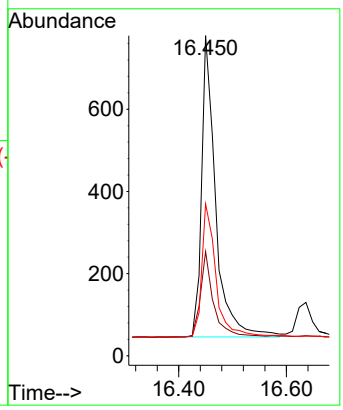


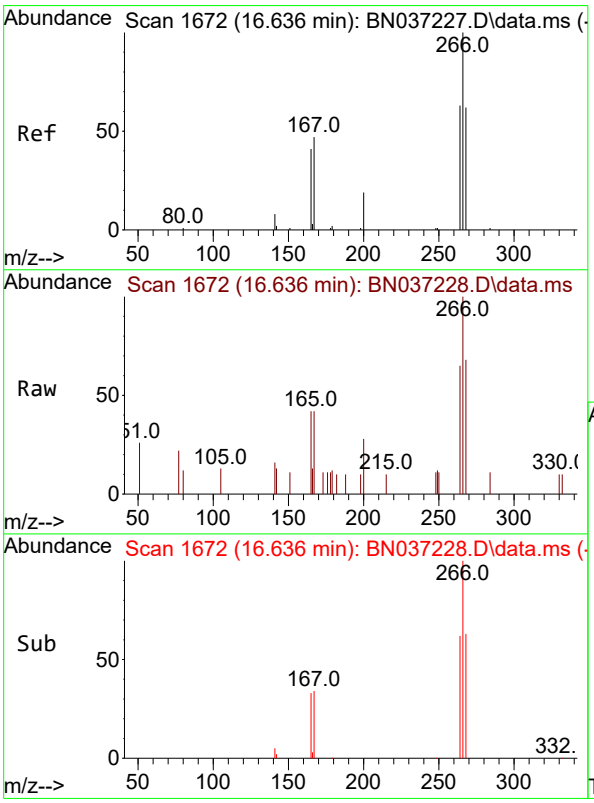
#23
Atrazine
Concen: 0.783 ng
RT: 16.450 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:200 Resp: 1327

Ion	Ratio	Lower	Upper
200	100		
173	32.6	25.1	37.7
215	47.5	43.7	65.5

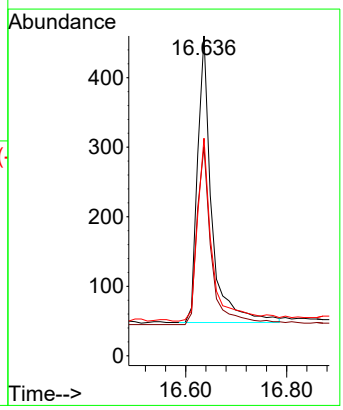


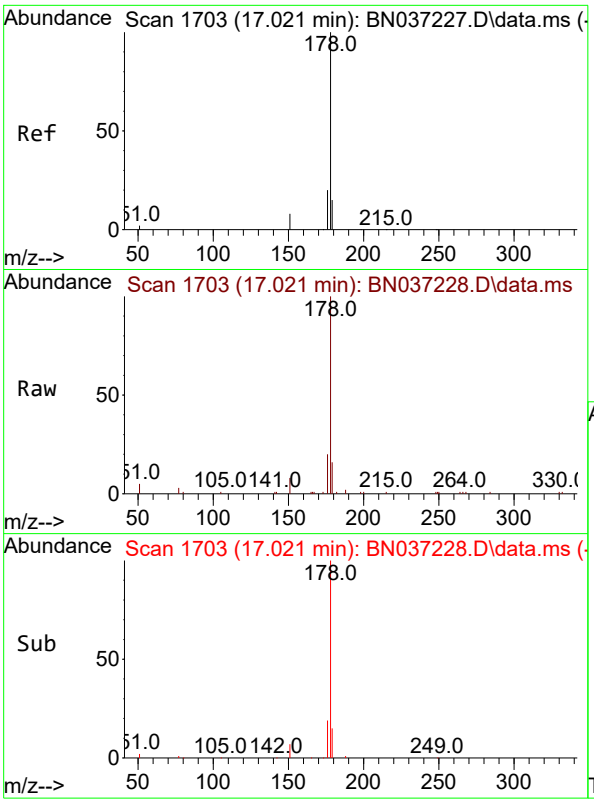


#24
Pentachlorophenol
Concen: 0.741 ng
RT: 16.636 min Scan# 1672
Delta R.T. 0.000 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

Tgt Ion:266 Resp: 800

Ion	Ratio	Lower	Upper
266	100		
264	63.2	49.2	73.8
268	66.6	53.4	80.2



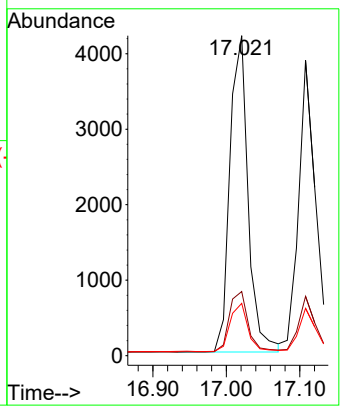


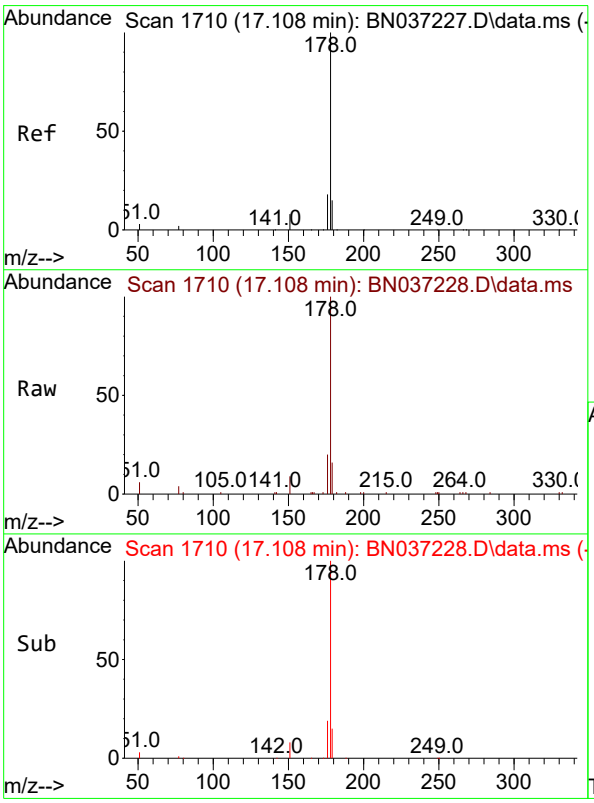
#25
Phenanthrene
Concen: 0.781 ng
RT: 17.021 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:178 Resp: 7220

Ion	Ratio	Lower	Upper
178	100		
176	19.9	16.3	24.5
179	15.0	12.6	18.8

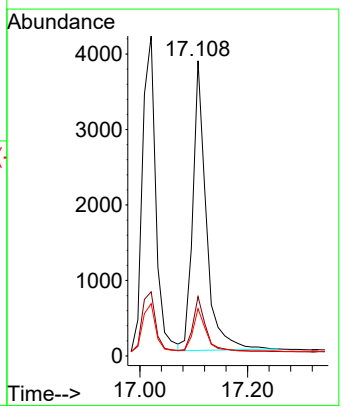


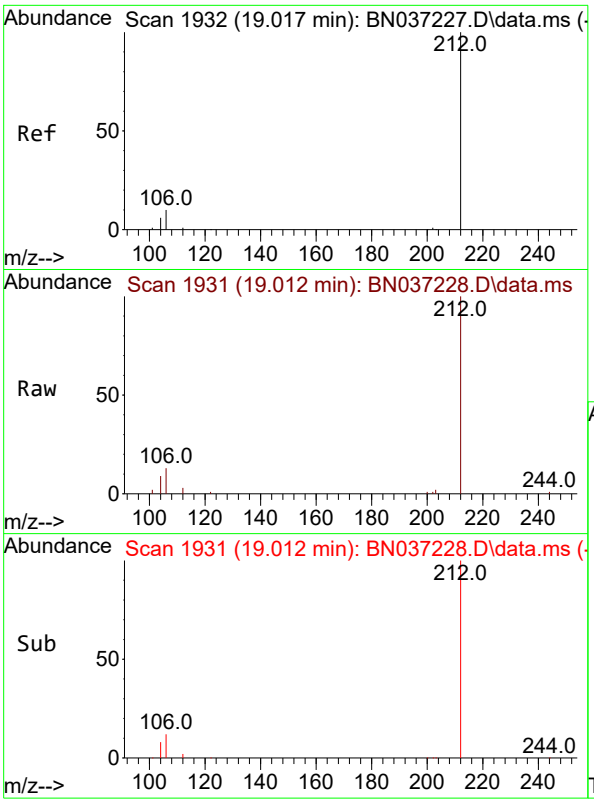


#26
Anthracene
Concen: 0.784 ng
RT: 17.108 min Scan# 1710
Delta R.T. 0.000 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

Tgt Ion:178 Resp: 6635

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.1	22.7
179	14.3	12.4	18.6



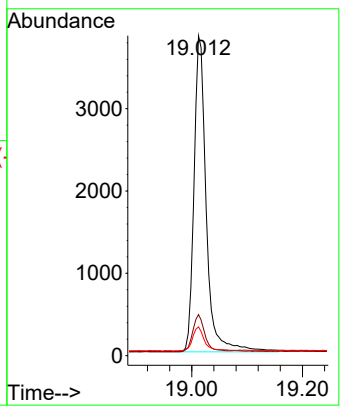


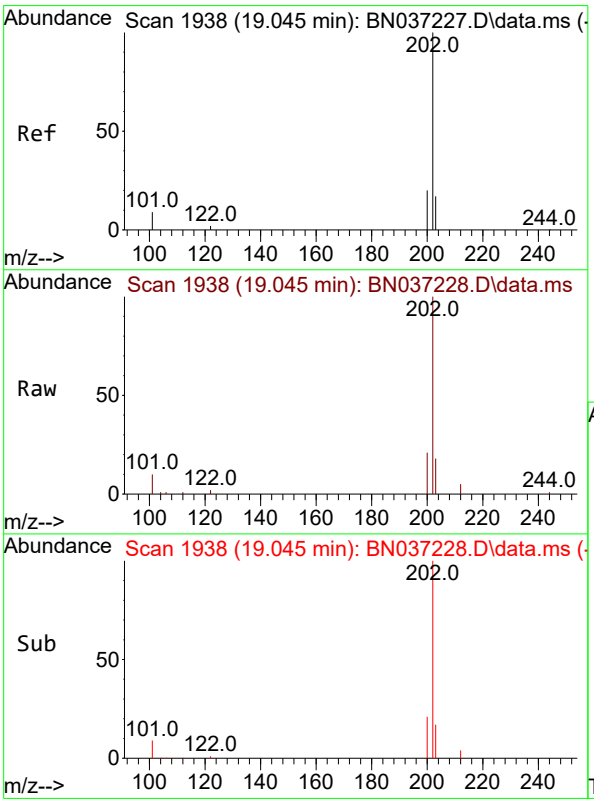
#27
Fluoranthene-d10
Concen: 0.777 ng
RT: 19.012 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:212 Resp: 5930

Ion	Ratio	Lower	Upper
212	100		
106	11.3	9.3	13.9
104	7.3	5.7	8.5

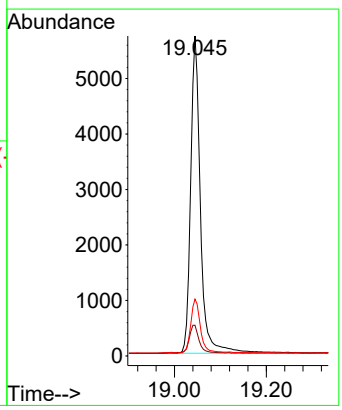


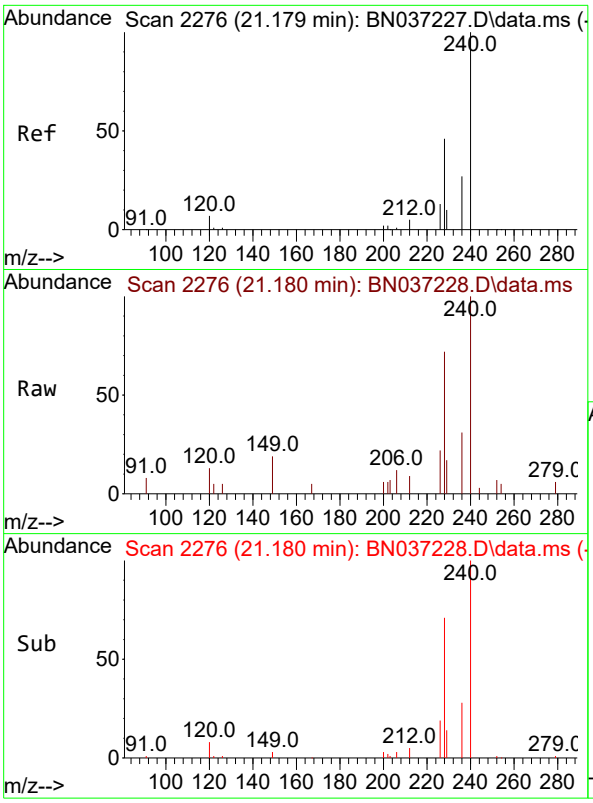


#28
Fluoranthene
Concen: 0.781 ng
RT: 19.045 min Scan# 1938
Delta R.T. 0.000 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

Tgt Ion:202 Resp: 8450

Ion	Ratio	Lower	Upper
202	100		
101	9.3	7.1	10.7
203	16.6	13.0	19.6



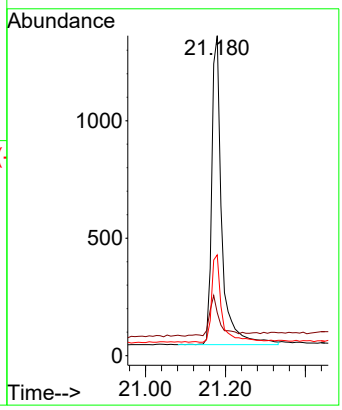


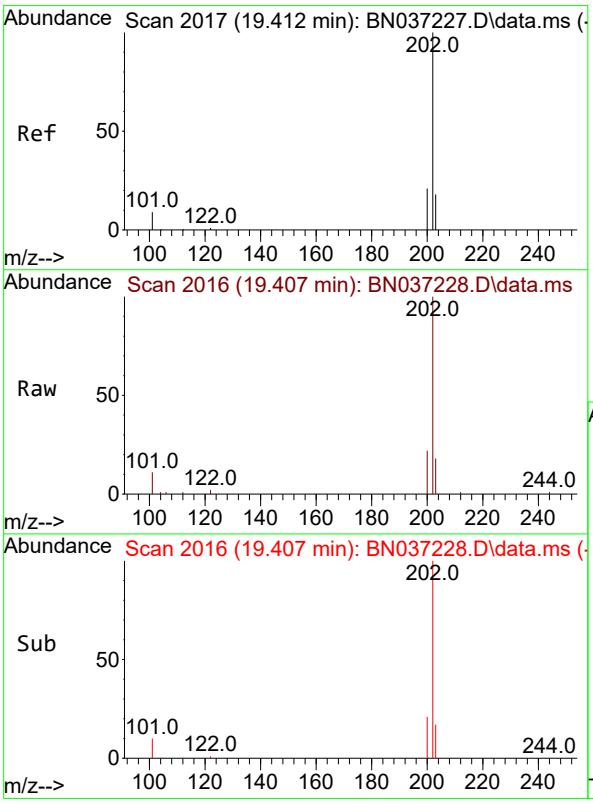
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.180 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:240 Resp: 2294

Ion	Ratio	Lower	Upper
240	100		
120	13.4	11.3	16.9
236	31.5	24.4	36.6

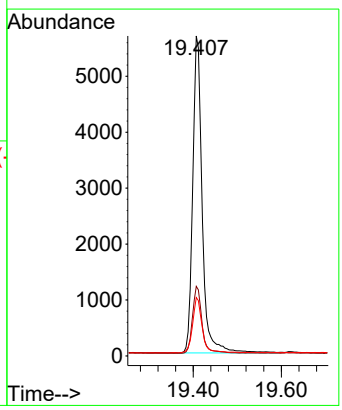


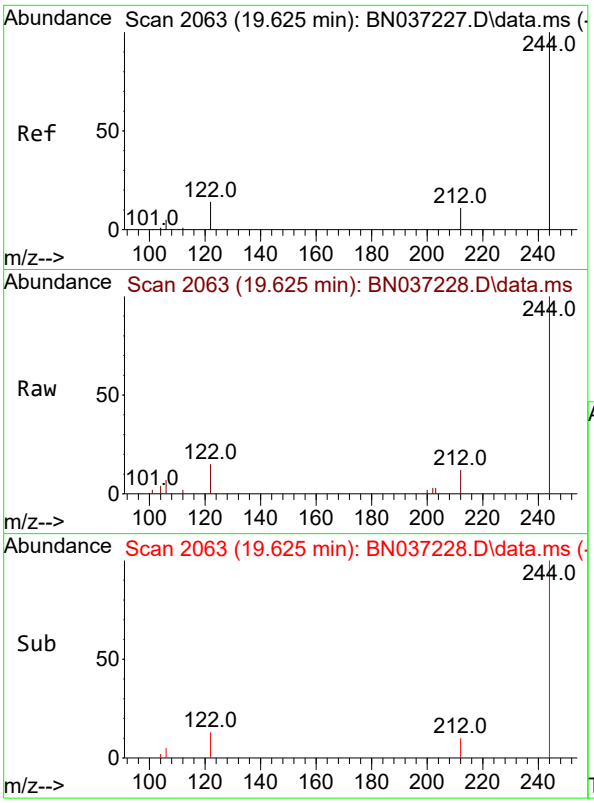


#30
Pyrene
Concen: 0.787 ng
RT: 19.407 min Scan# 2016
Delta R.T. -0.005 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

Tgt Ion:202 Resp: 8483

Ion	Ratio	Lower	Upper
202	100		
200	21.1	17.2	25.8
203	17.4	14.3	21.5



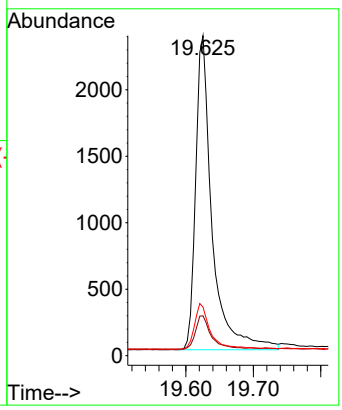


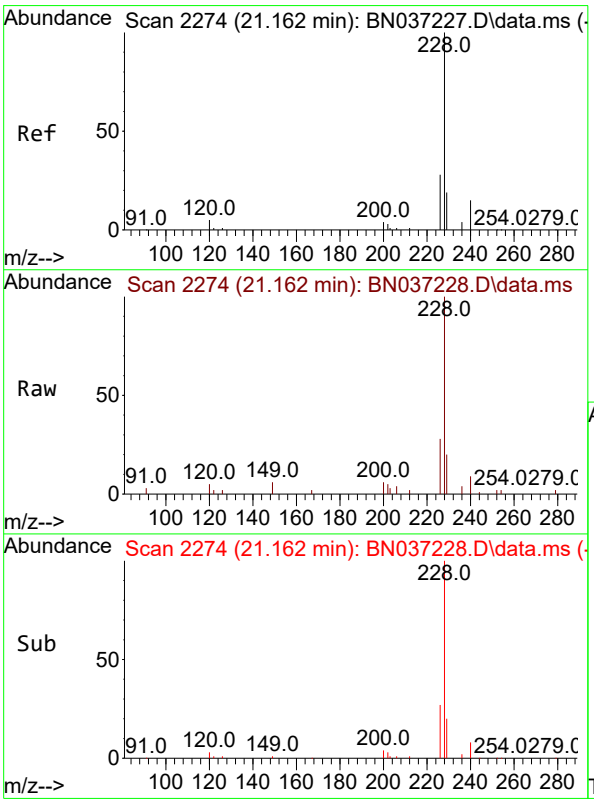
#31
Terphenyl-d14
Concen: 0.770 ng
RT: 19.625 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:244 Resp: 3995

Ion	Ratio	Lower	Upper
244	100		
212	12.5	12.2	18.2
122	15.2	14.3	21.5

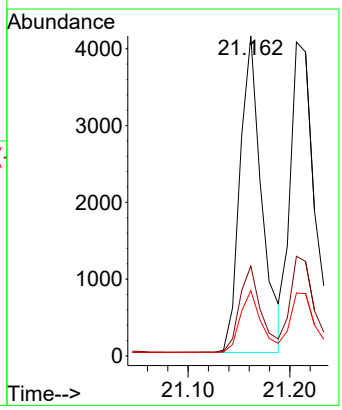


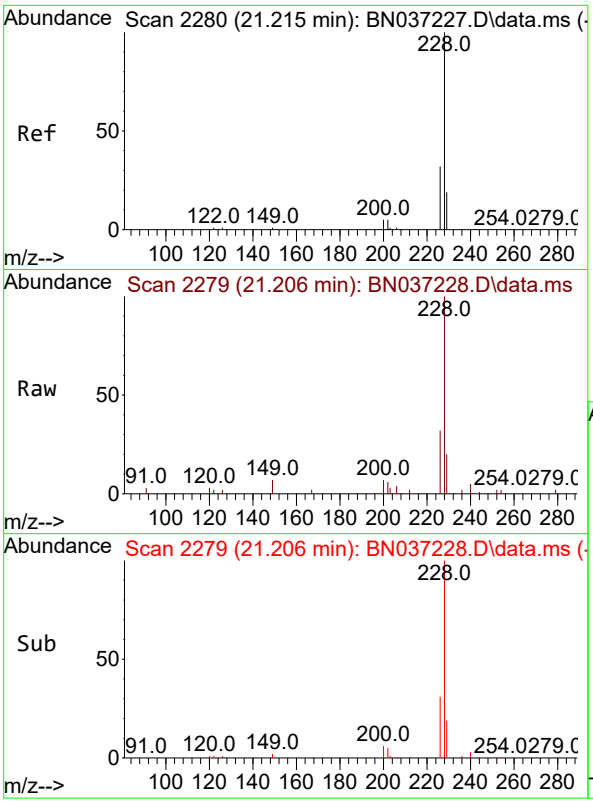


#32
Benzo(a)anthracene
Concen: 0.789 ng
RT: 21.162 min Scan# 2274
Delta R.T. 0.000 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

Tgt Ion:228 Resp: 6109

Ion	Ratio	Lower	Upper
228	100		
226	28.1	23.8	35.8
229	20.4	17.0	25.4



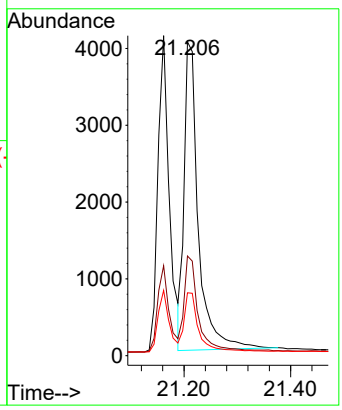


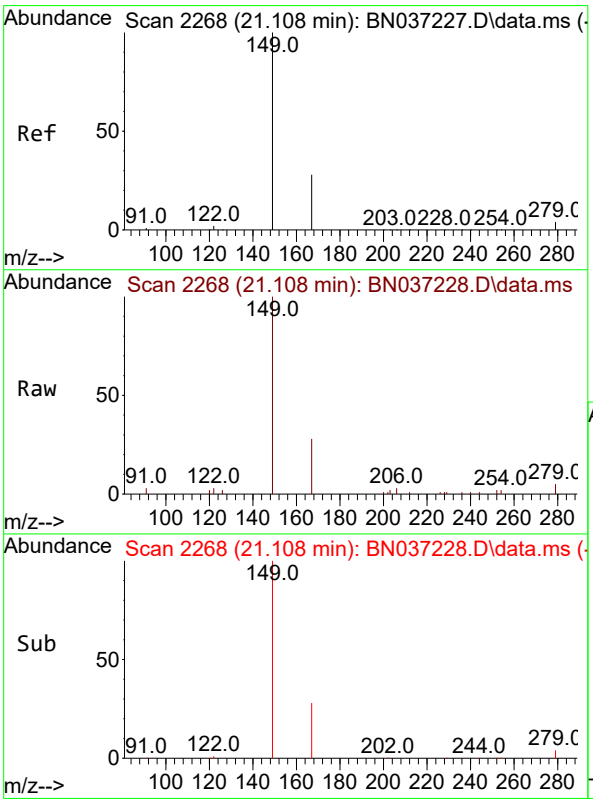
#33
Chrysene
Concen: 0.769 ng
RT: 21.206 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:228 Resp: 7421

Ion	Ratio	Lower	Upper
228	100		
226	31.8	25.8	38.6
229	20.0	17.0	25.4

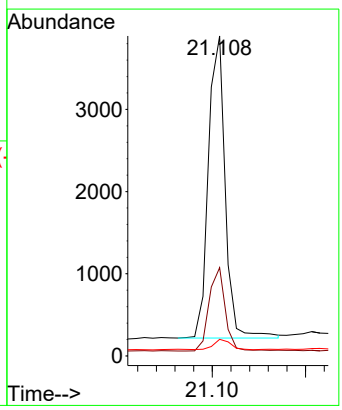


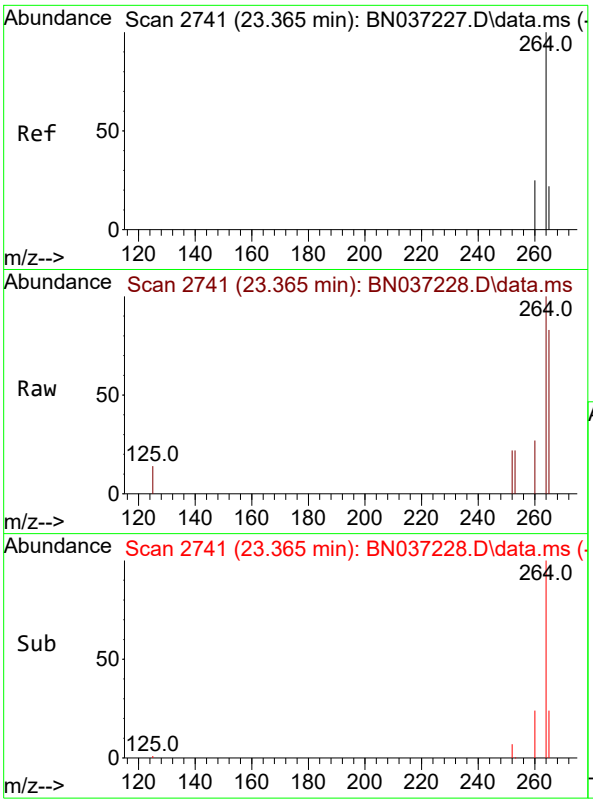


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.796 ng
RT: 21.108 min Scan# 2268
Delta R.T. 0.000 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

Tgt Ion:149 Resp: 4590

Ion	Ratio	Lower	Upper
149	100		
167	26.5	21.3	31.9
279	3.4	3.3	4.9



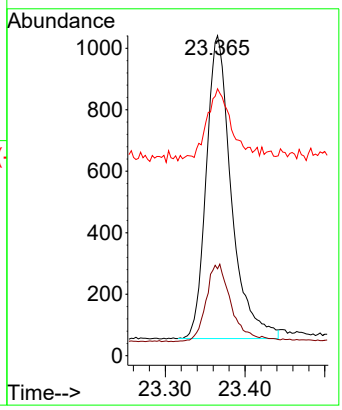


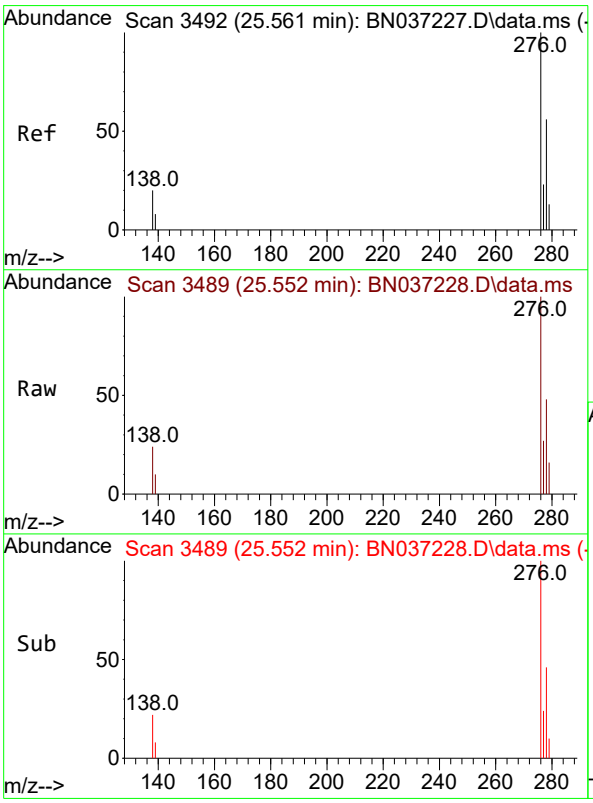
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.365 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:264 Resp: 2157

Ion	Ratio	Lower	Upper
264	100		
260	27.2	22.8	34.2
265	83.4	66.4	99.6

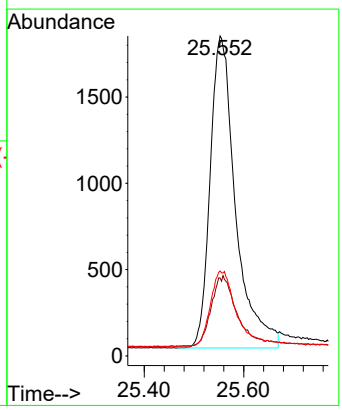


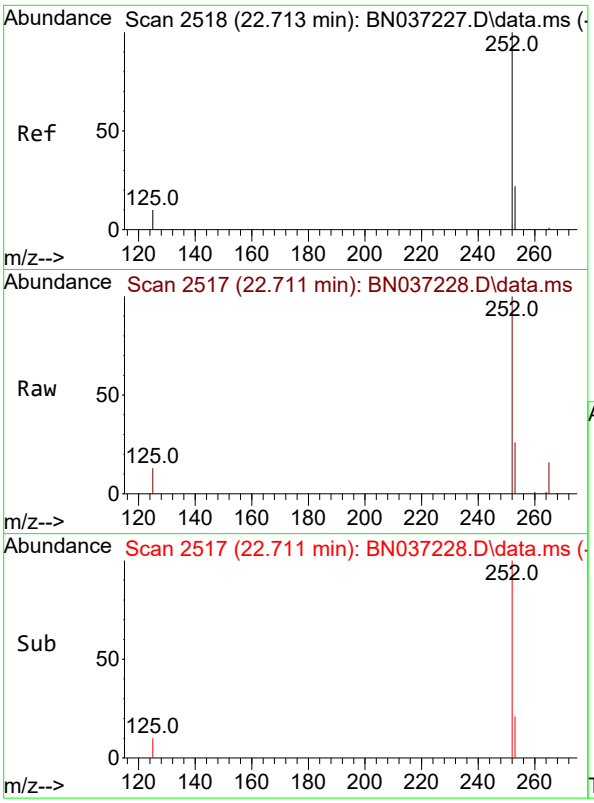


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.737 ng
RT: 25.552 min Scan# 3489
Delta R.T. -0.009 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

Tgt Ion:276 Resp: 6412

Ion	Ratio	Lower	Upper
276	100		
138	9.5	16.8	25.2#
277	24.2	19.5	29.3



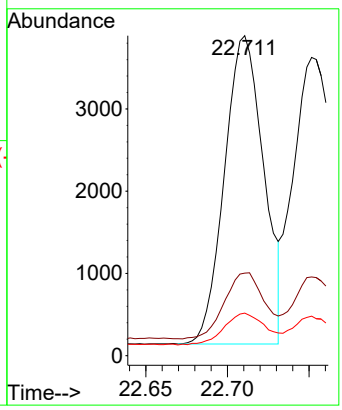


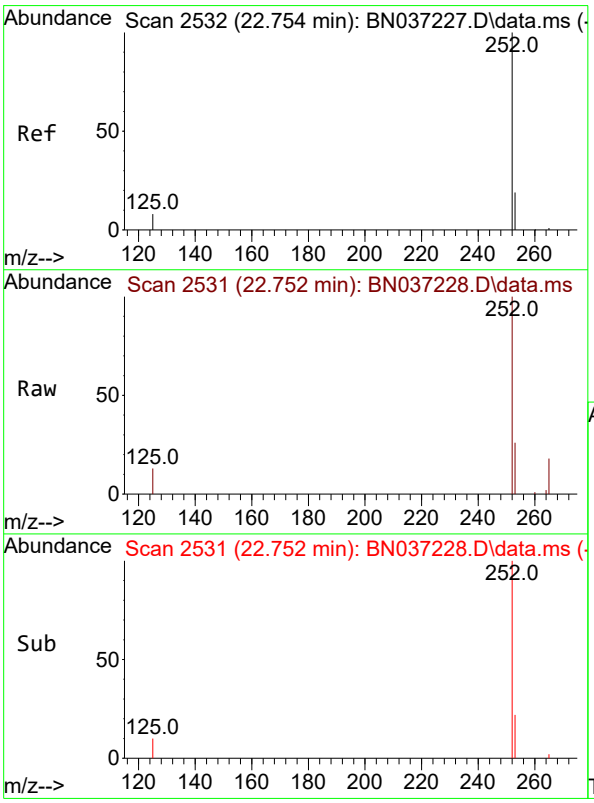
#37
Benzo(b)fluoranthene
Concen: 0.796 ng
RT: 22.711 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:252 Resp: 6280

Ion	Ratio	Lower	Upper
252	100		
253	25.8	24.9	37.3
125	13.3	12.9	19.3

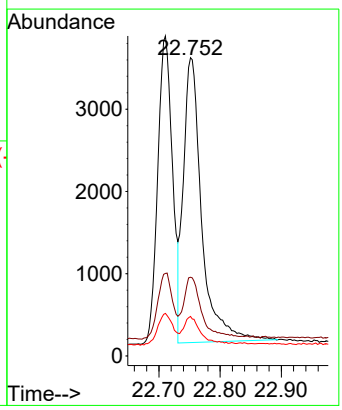


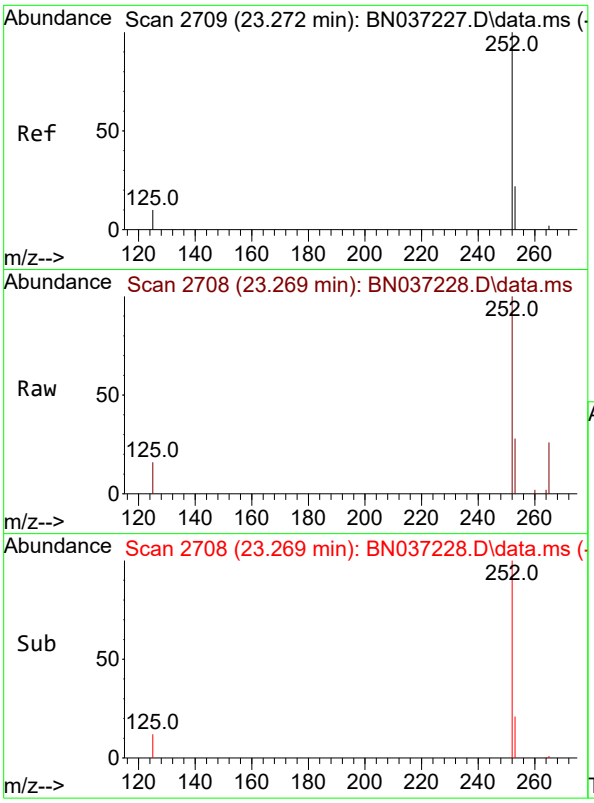


#38
Benzo(k)fluoranthene
Concen: 0.795 ng
RT: 22.752 min Scan# 2531
Delta R.T. -0.003 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

Tgt Ion:252 Resp: 7192

Ion	Ratio	Lower	Upper
252	100		
253	26.4	24.6	37.0
125	13.3	13.4	20.2#



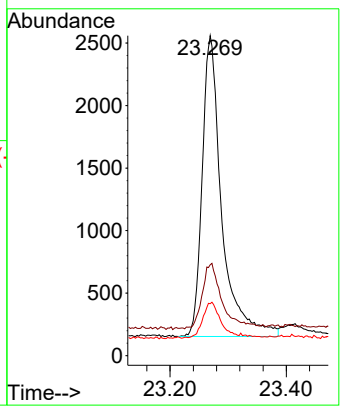


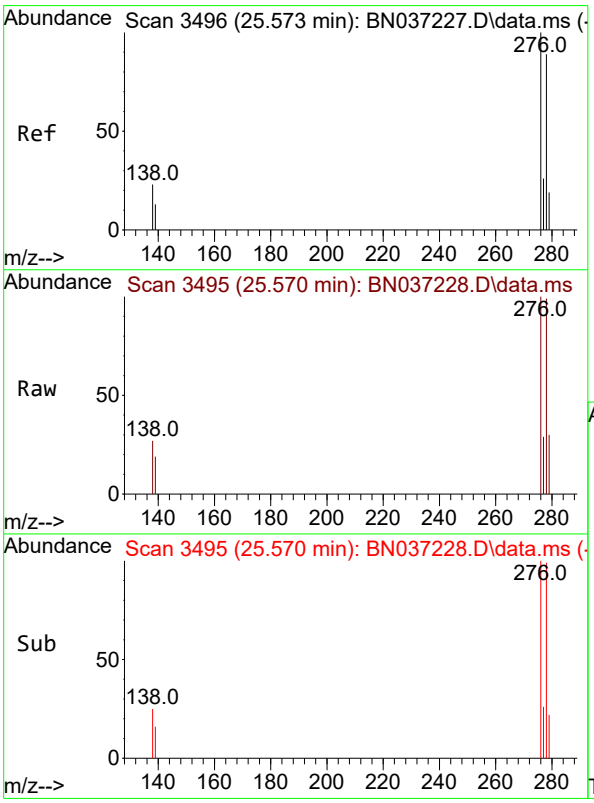
#39
Benzo(a)pyrene
Concen: 0.789 ng
RT: 23.269 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:252 Resp: 5598

Ion	Ratio	Lower	Upper
252	100		
253	28.4	29.4	44.2#
125	16.3	16.2	24.2

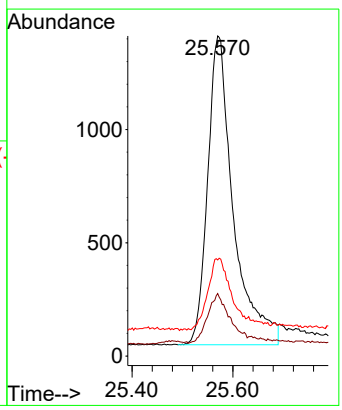


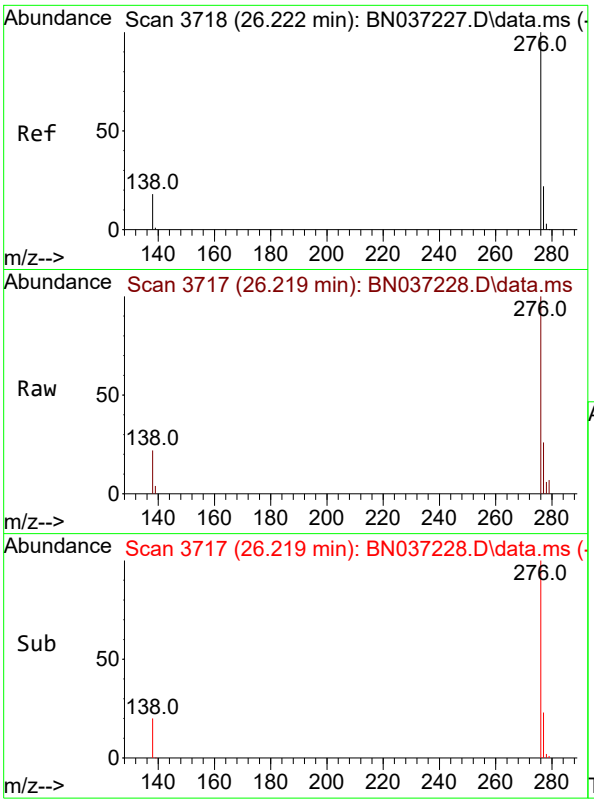


#40
Dibenzo(a,h)anthracene
Concen: 0.736 ng
RT: 25.570 min Scan# 3495
Delta R.T. -0.003 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

Tgt Ion:278 Resp: 4824

Ion	Ratio	Lower	Upper
278	100		
139	19.5	17.8	26.6
279	30.0	31.3	46.9#



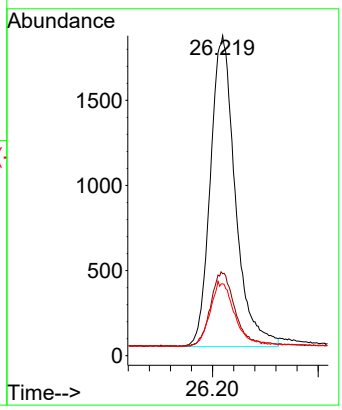


#41
Benzo(g,h,i)perylene
Concen: 0.741 ng
RT: 26.219 min Scan# 3
Delta R.T. -0.003 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:276 Resp: 5978

Ion	Ratio	Lower	Upper
276	100		
277	25.6	22.0	33.0
138	22.4	18.4	27.6



Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037229.D
Acq On : 13 Jun 2025 15:59
Operator : RC/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Quant Time: Jun 13 18:38:03 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:34:15 2025
Response via : Initial Calibration

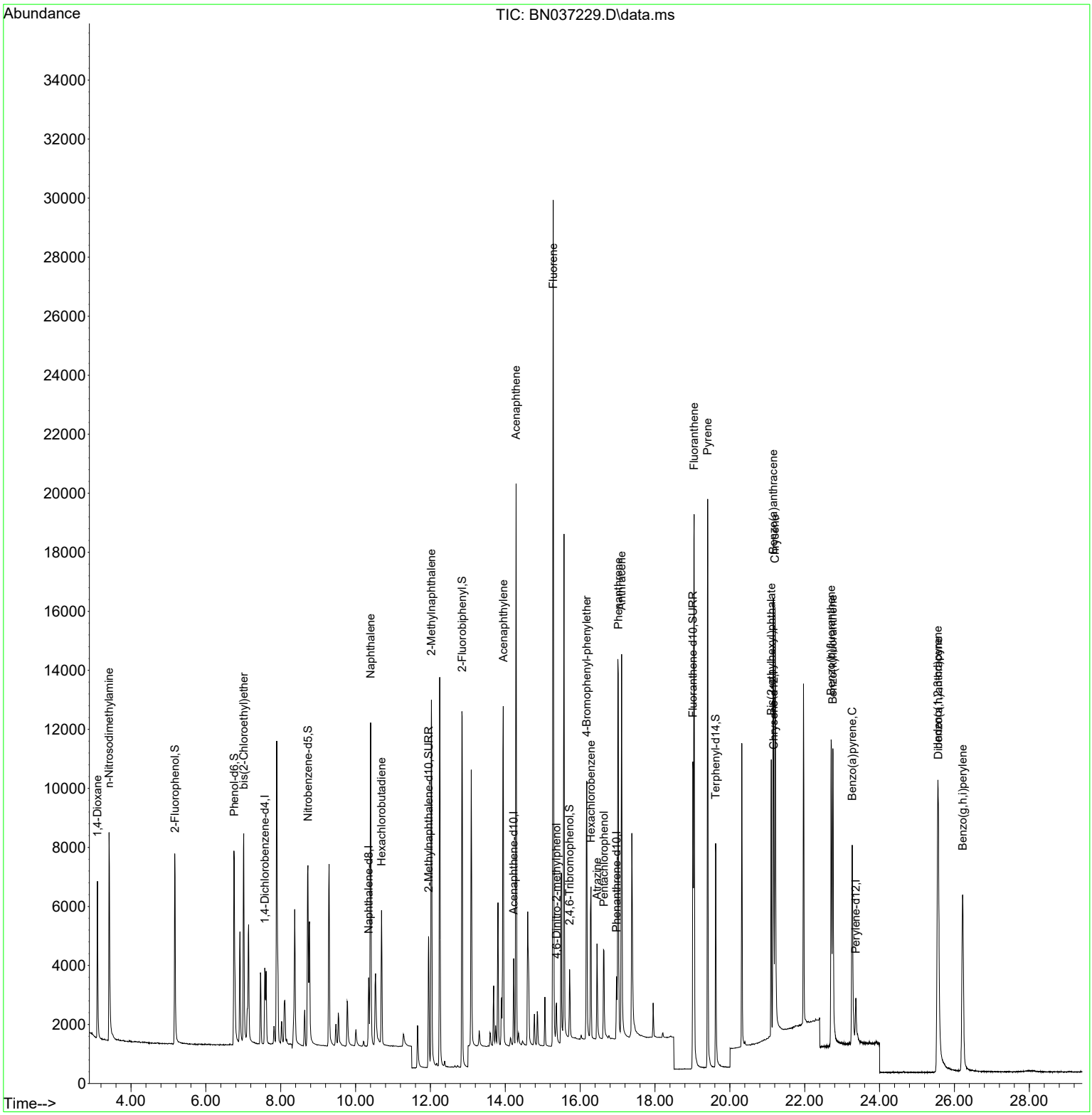
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.575	152	1193	0.400	ng		0.00
7) Naphthalene-d8	10.351	136	2881	0.400	ng		#-0.01
13) Acenaphthene-d10	14.224	164	1539	0.400	ng		0.00
19) Phenanthrene-d10	16.971	188	2917	0.400	ng		0.00
29) Chrysene-d12	21.171	240	2167	0.400	ng		# 0.00
35) Perylene-d12	23.366	264	2036	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.177	112	4755	1.623	ng		0.00
5) Phenol-d6	6.759	99	5480	1.774	ng		0.00
8) Nitrobenzene-d5	8.728	82	5073	1.782	ng		0.00
11) 2-Methylnaphthalene-d10	11.950	152	6642	1.718	ng		0.00
14) 2,4,6-Tribromophenol	15.718	330	1157	1.810	ng		-0.01
15) 2-Fluorobiphenyl	12.848	172	11216	1.734	ng		0.00
27) Fluoranthene-d10	19.012	212	12285	1.610	ng		0.00
31) Terphenyl-d14	19.621	244	8579	1.751	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.104	88	2620	1.601	ng		93
3) n-Nitrosodimethylamine	3.415	42	6179	1.657	ng	#	97
6) bis(2-Chloroethyl)ether	7.012	93	5181	1.873	ng		92
9) Naphthalene	10.404	128	13925	1.669	ng		96
10) Hexachlorobutadiene	10.693	225	3281	1.617	ng	#	96
12) 2-Methylnaphthalene	12.026	142	8865	1.748	ng		99
16) Acenaphthylene	13.946	152	12787	1.696	ng		99
17) Acenaphthene	14.288	154	8258	1.696	ng		99
18) Fluorene	15.282	166	10814	1.730	ng		100
20) 4,6-Dinitro-2-methylph...	15.368	198	1171	1.596	ng	#	47
21) 4-Bromophenyl-phenylether	16.177	248	3248	1.709	ng	#	85
22) Hexachlorobenzene	16.289	284	3460	1.570	ng		98
23) Atrazine	16.450	200	2809	1.657	ng		90
24) Pentachlorophenol	16.636	266	1800	1.667	ng		97
25) Phenanthrene	17.021	178	15448	1.670	ng		99
26) Anthracene	17.108	178	14243	1.682	ng		100
28) Fluoranthene	19.045	202	17611	1.626	ng		99
30) Pyrene	19.407	202	17479	1.716	ng		100
32) Benzo(a)anthracene	21.162	228	13105	1.791	ng		97
33) Chrysene	21.207	228	14835	1.627	ng		98
34) Bis(2-ethylhexyl)phtha...	21.108	149	8716	1.599	ng		99
36) Indeno(1,2,3-cd)pyrene	25.555	276	13992	1.704	ng		97
37) Benzo(b)fluoranthene	22.708	252	13177	1.769	ng	#	87
38) Benzo(k)fluoranthene	22.752	252	14311	1.675	ng	#	88
39) Benzo(a)pyrene	23.269	252	11458	1.710	ng	#	81
40) Dibenzo(a,h)anthracene	25.570	278	11091	1.793	ng	#	83
41) Benzo(g,h,i)perylene	26.219	276	12677	1.665	ng		95

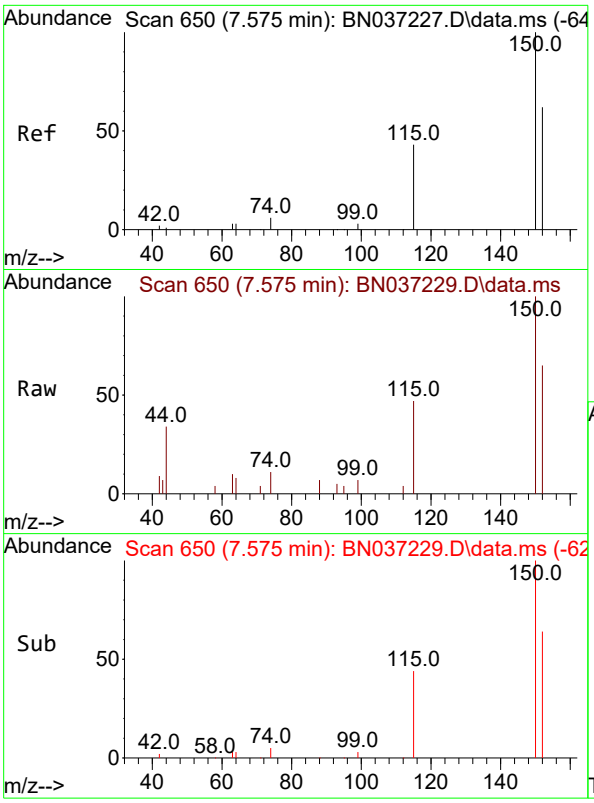
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037229.D
Acq On : 13 Jun 2025 15:59
Operator : RC/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Quant Time: Jun 13 18:38:03 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:34:15 2025
Response via : Initial Calibration



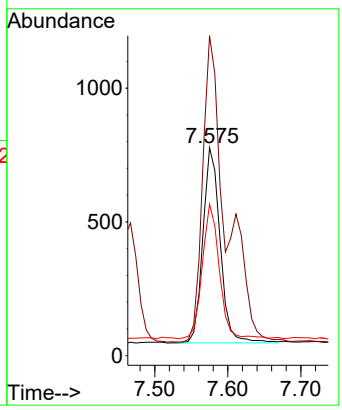


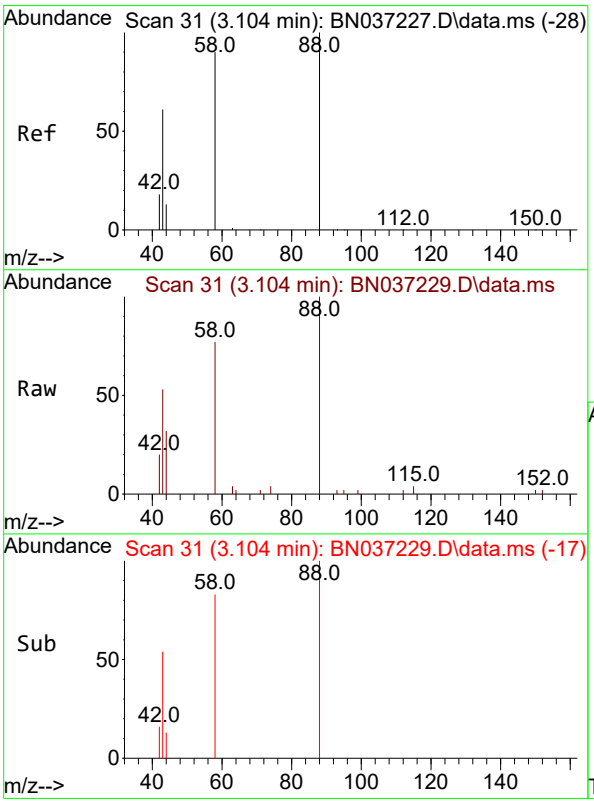
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:152 Resp: 1193

Ion	Ratio	Lower	Upper
152	100		
150	153.7	125.2	187.8
115	72.8	58.4	87.6

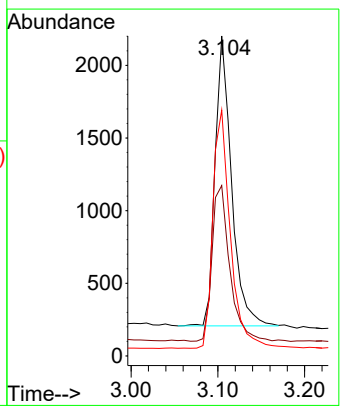


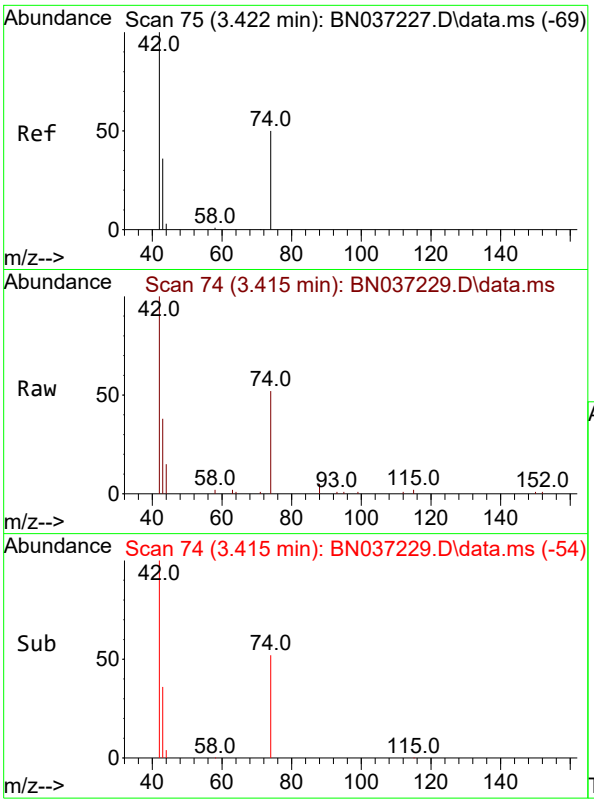


#2
1,4-Dioxane
Concen: 1.601 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

Tgt Ion: 88 Resp: 2620

Ion	Ratio	Lower	Upper
88	100		
43	58.5	52.6	79.0
58	87.4	73.5	110.3



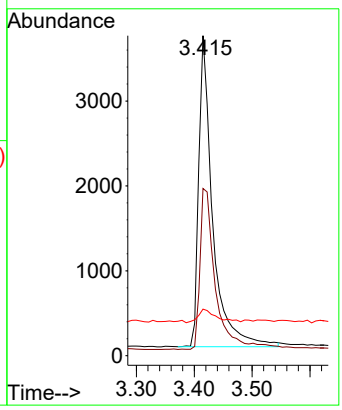


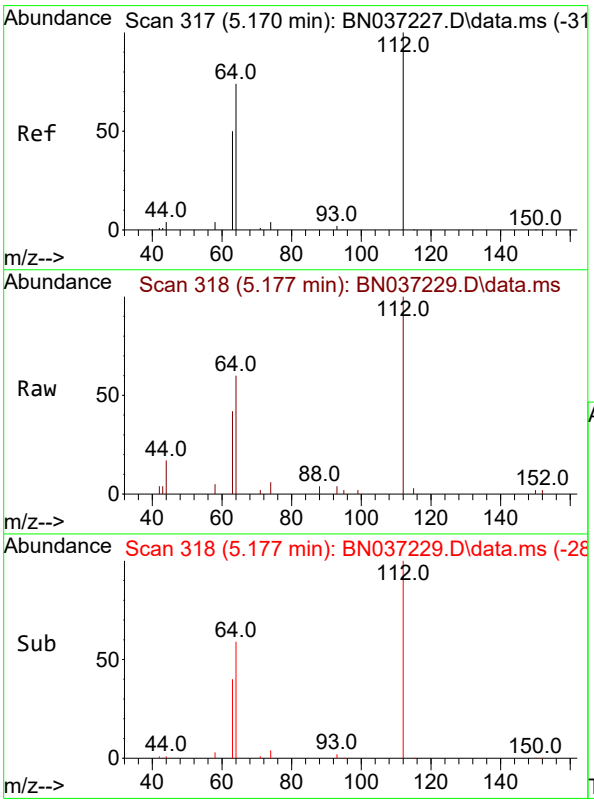
#3
n-Nitrosodimethylamine
Concen: 1.657 ng
RT: 3.415 min Scan# 7
Delta R.T. -0.007 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion: 42 Resp: 6179

Ion	Ratio	Lower	Upper
42	100		
74	57.5	44.6	66.8
44	5.7	3.5	5.3#

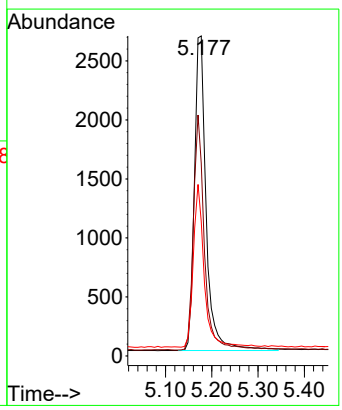


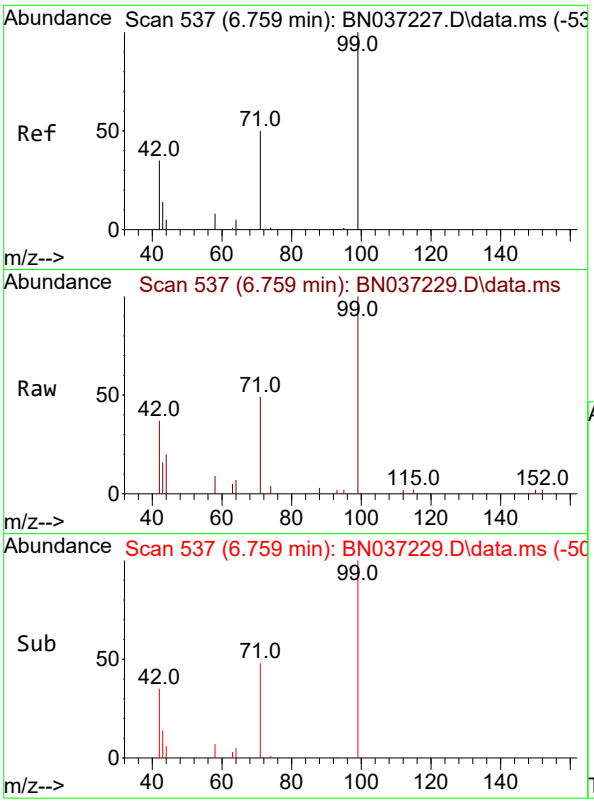


#4
2-Fluorophenol
Concen: 1.623 ng
RT: 5.177 min Scan# 318
Delta R.T. 0.007 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

Tgt Ion:112 Resp: 4755

Ion	Ratio	Lower	Upper
112	100		
64	69.7	57.2	85.8
63	47.7	39.8	59.6



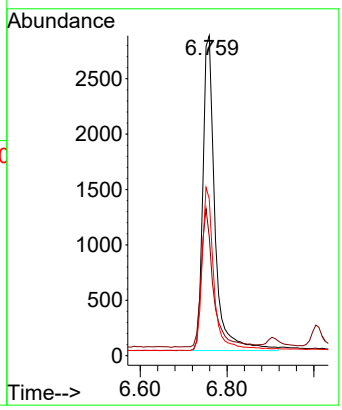


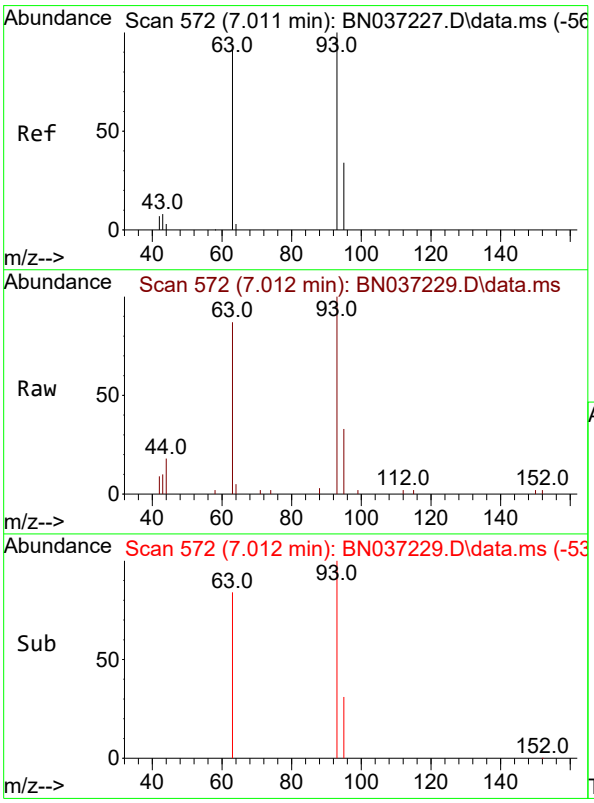
#5
Phenol-d6
Concen: 1.774 ng
RT: 6.759 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion: 99 Resp: 5480

Ion	Ratio	Lower	Upper
99	100		
42	44.0	36.2	54.4
71	50.7	42.4	63.6

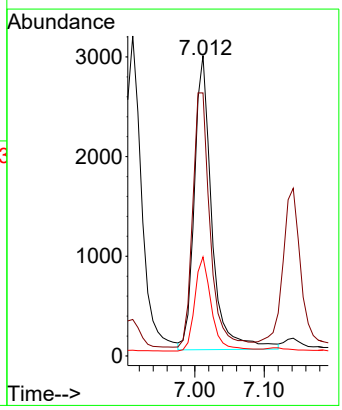


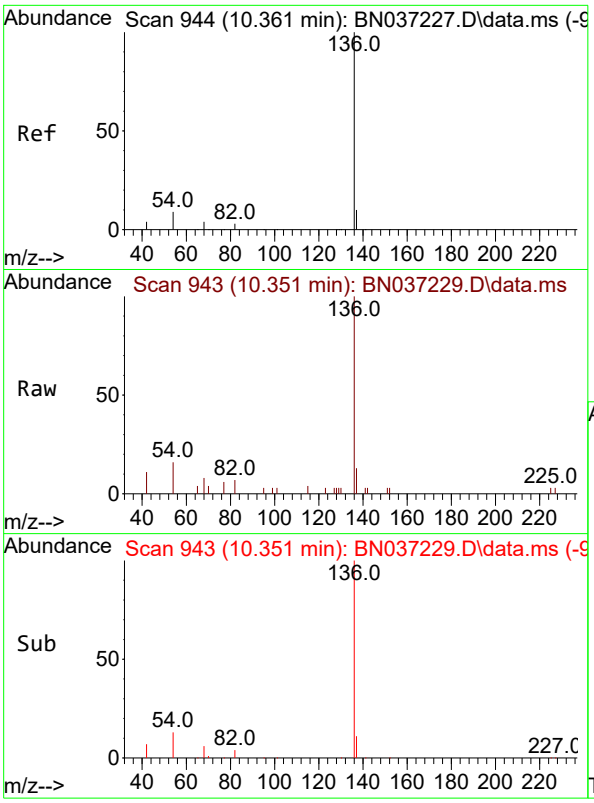


#6
bis(2-Chloroethyl)ether
Concen: 1.873 ng
RT: 7.012 min Scan# 572
Delta R.T. 0.000 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

Tgt Ion: 93 Resp: 5181

Ion	Ratio	Lower	Upper
93	100		
63	86.4	75.2	112.8
95	30.5	28.3	42.5



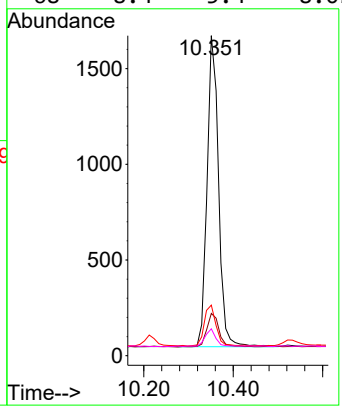


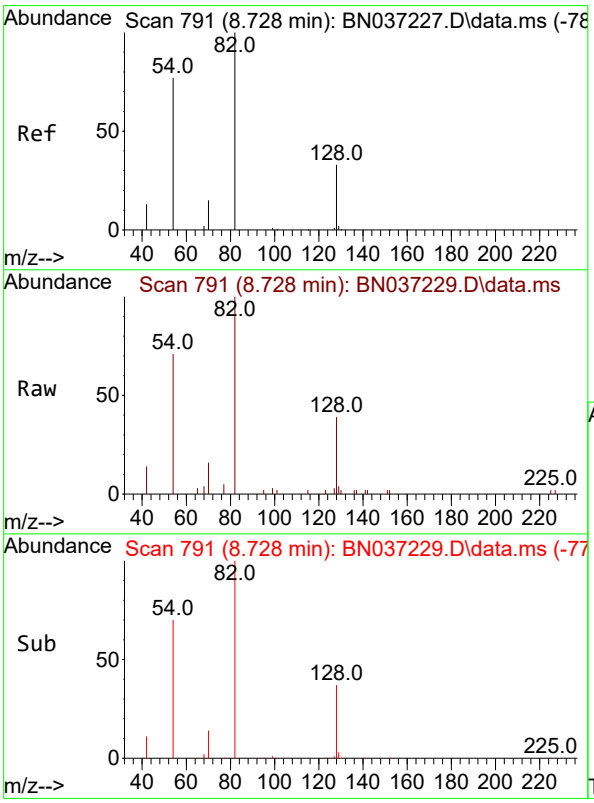
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 94
Delta R.T. -0.010 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:136 Resp: 2881

Ion	Ratio	Lower	Upper
136	100		
137	13.2	10.6	15.8
54	15.8	9.2	13.8#
68	8.4	5.4	8.0#

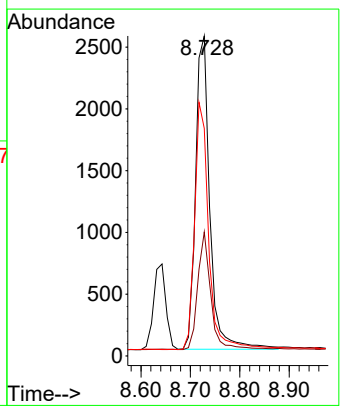


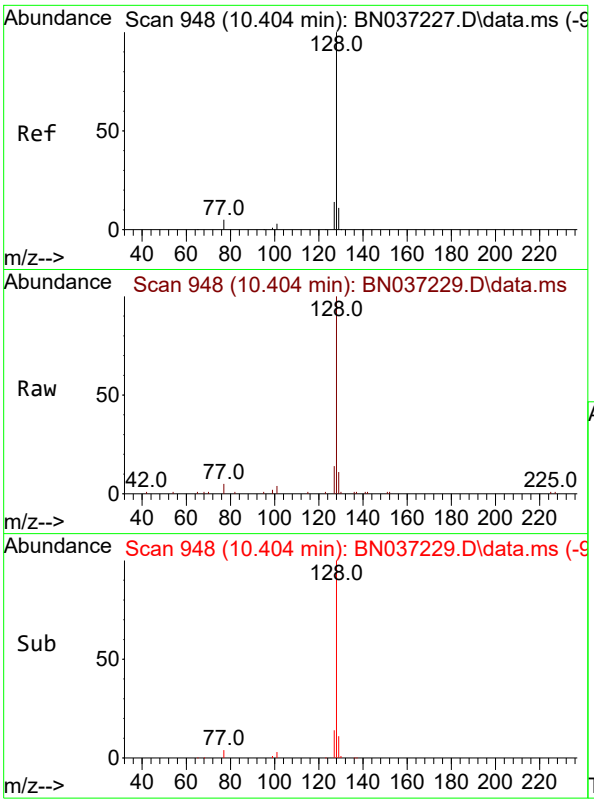


#8
Nitrobenzene-d5
Concen: 1.782 ng
RT: 8.728 min Scan# 791
Delta R.T. 0.000 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

Tgt Ion: 82 Resp: 5073

Ion	Ratio	Lower	Upper
82	100		
128	38.7	31.2	46.8
54	71.1	63.3	94.9



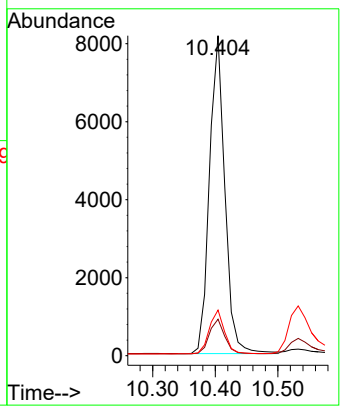


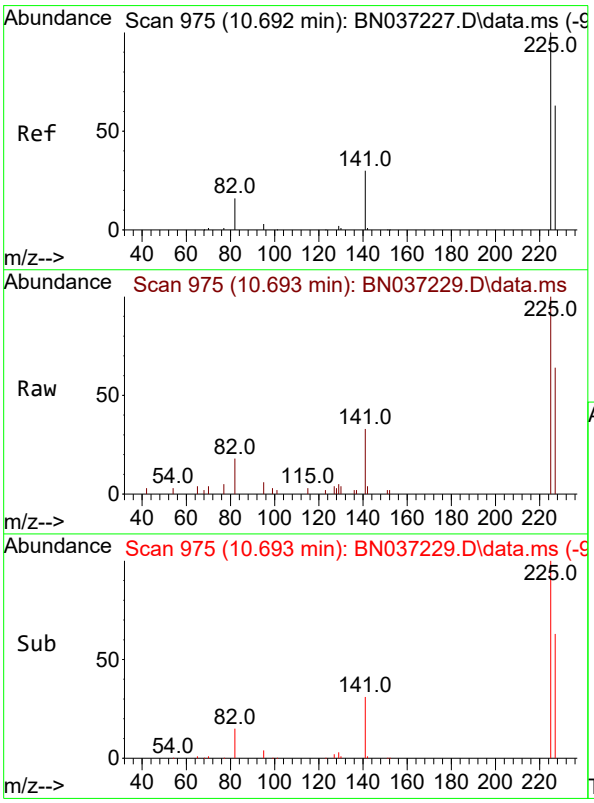
#9
Naphthalene
Concen: 1.669 ng
RT: 10.404 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:128 Resp: 13925

Ion	Ratio	Lower	Upper
128	100		
129	11.4	10.7	16.1
127	14.2	12.6	19.0

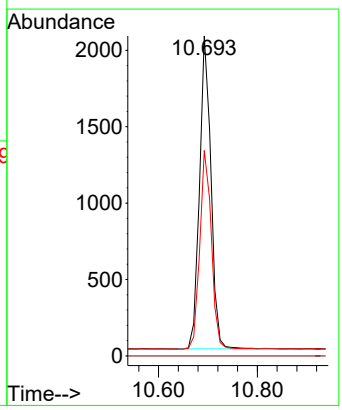


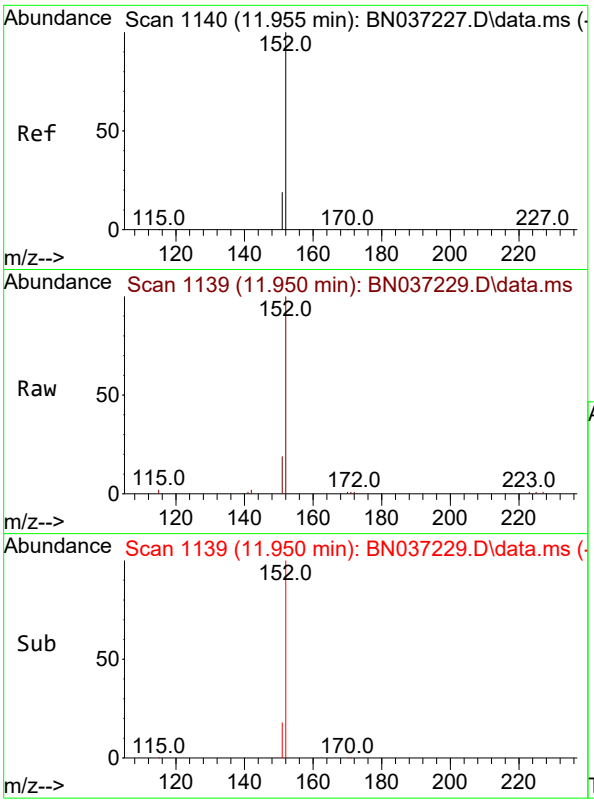


#10
Hexachlorobutadiene
Concen: 1.617 ng
RT: 10.693 min Scan# 975
Delta R.T. 0.000 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

Tgt Ion:225 Resp: 3281

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.2	49.2	73.8



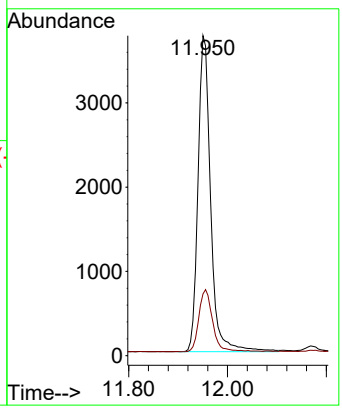


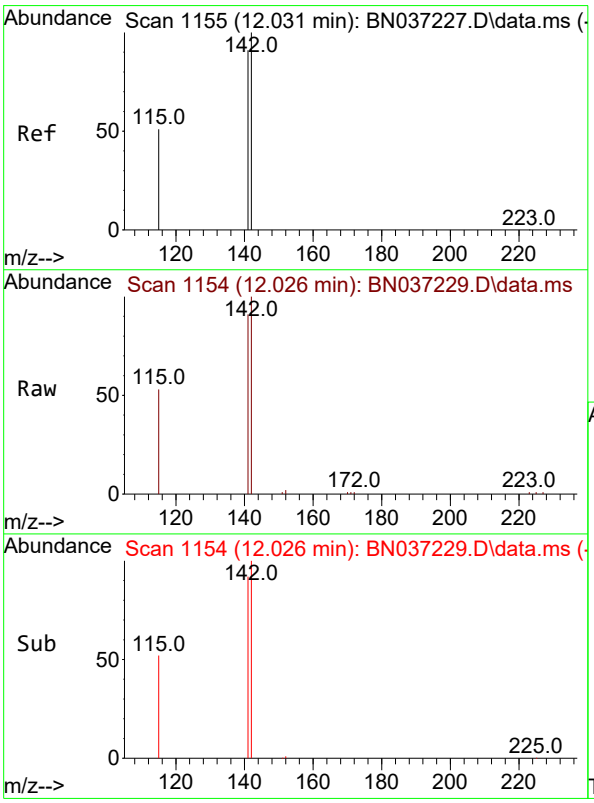
#11
2-Methylnaphthalene-d10
Concen: 1.718 ng
RT: 11.950 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:152 Resp: 6642

Ion	Ratio	Lower	Upper
152	100		
151	21.6	17.9	26.9

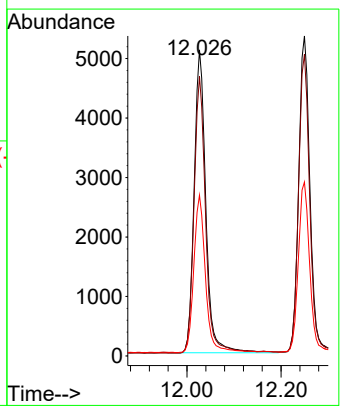


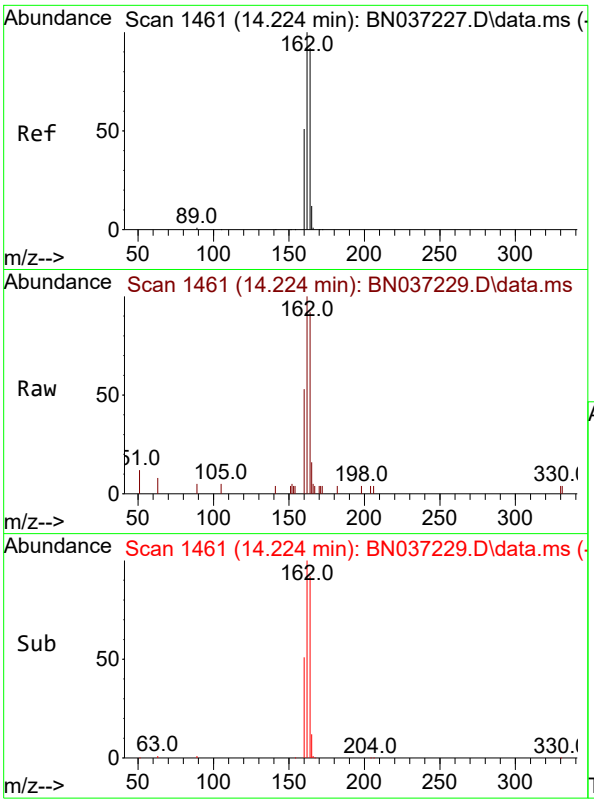


#12
2-Methylnaphthalene
Concen: 1.748 ng
RT: 12.026 min Scan# 1154
Delta R.T. -0.005 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

Tgt Ion:142 Resp: 8865

Ion	Ratio	Lower	Upper
142	100		
141	91.4	73.0	109.6
115	52.5	43.3	64.9



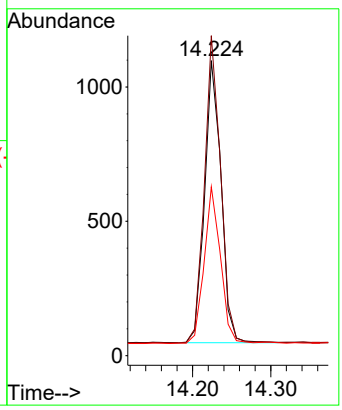


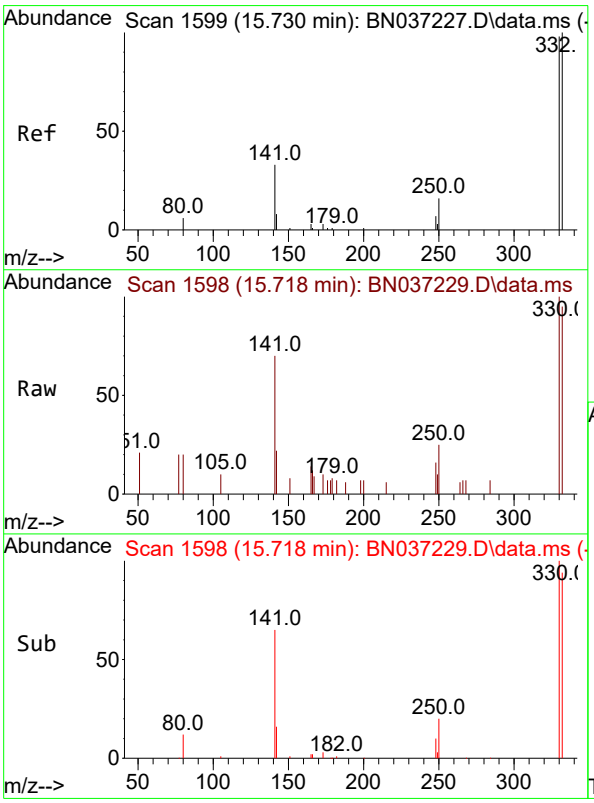
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:164 Resp: 1539

Ion	Ratio	Lower	Upper
164	100		
162	108.5	86.7	130.1
160	57.2	45.8	68.6

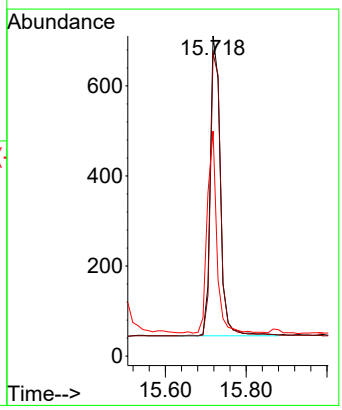


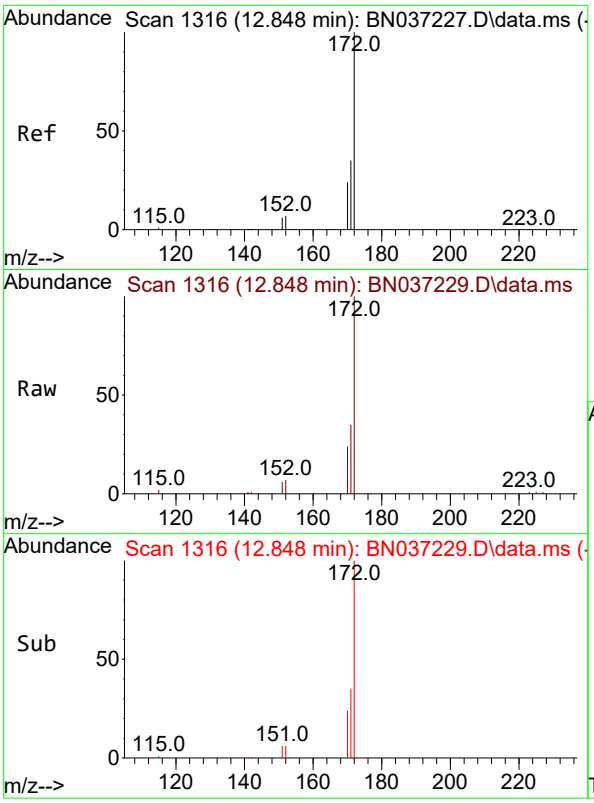


#14
2,4,6-Tribromophenol
Concen: 1.810 ng
RT: 15.718 min Scan# 1598
Delta R.T. -0.012 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

Tgt Ion:330 Resp: 1157

Ion	Ratio	Lower	Upper
330	100		
332	95.2	74.9	112.3
141	63.4	45.1	67.7



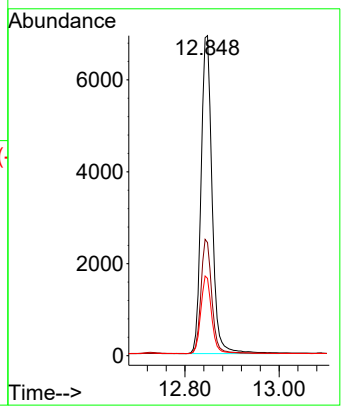


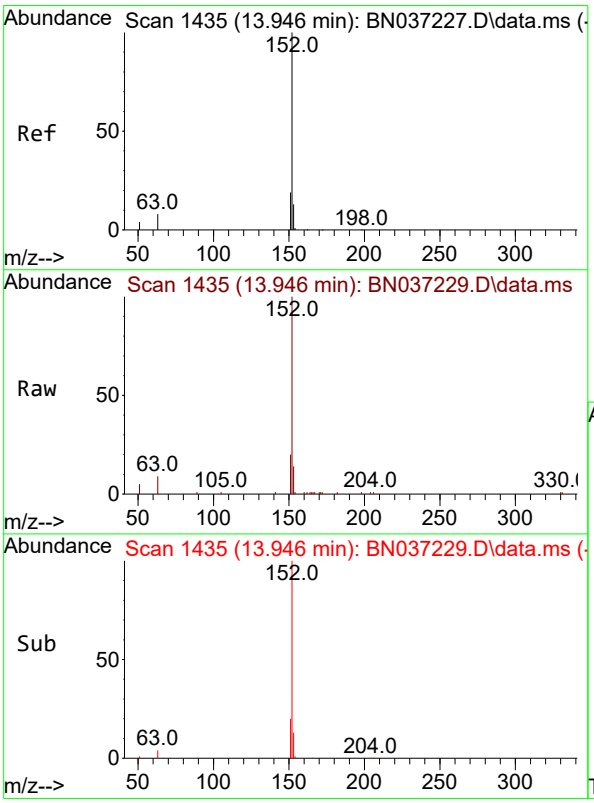
#15
2-Fluorobiphenyl
Concen: 1.734 ng
RT: 12.848 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:172 Resp: 11216

Ion	Ratio	Lower	Upper
172	100		
171	35.4	29.8	44.8
170	24.2	21.1	31.7

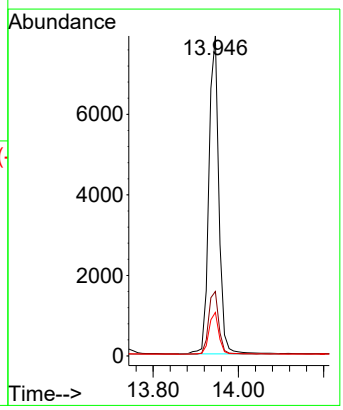


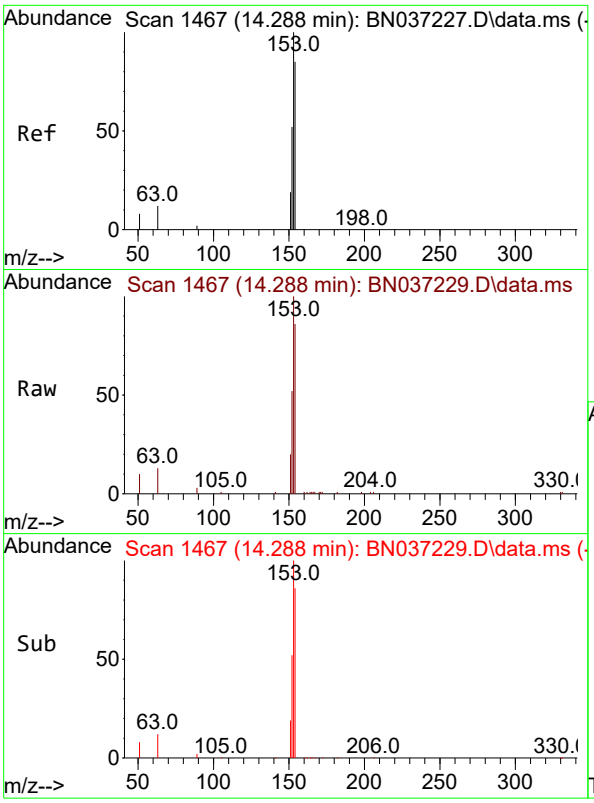


#16
Acenaphthylene
Concen: 1.696 ng
RT: 13.946 min Scan# 1435
Delta R.T. 0.000 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

Tgt Ion:152 Resp: 12787

Ion	Ratio	Lower	Upper
152	100		
151	20.1	15.7	23.5
153	13.1	10.7	16.1



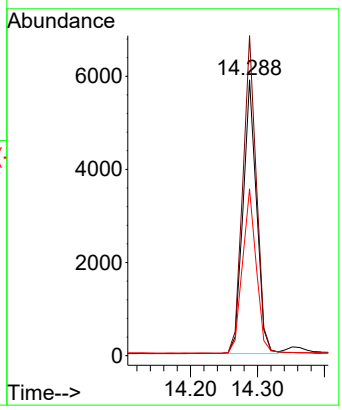


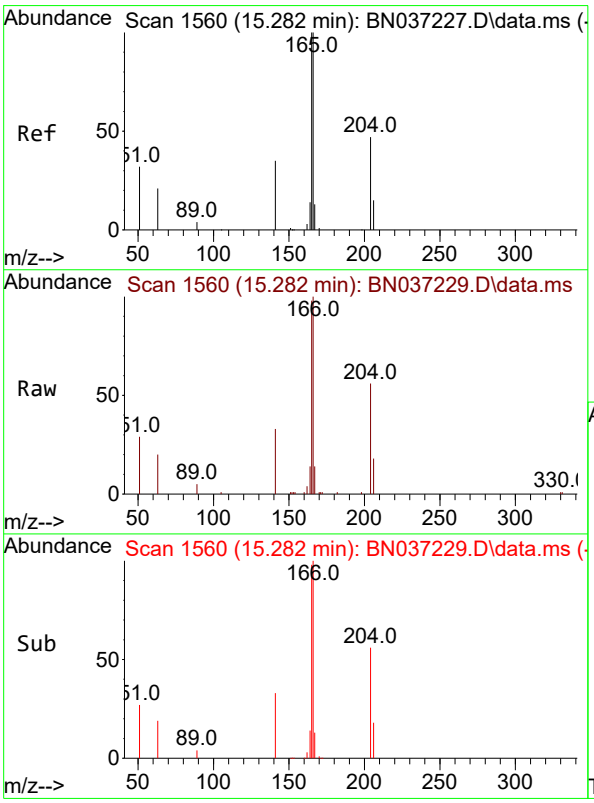
#17
Acenaphthene
Concen: 1.696 ng
RT: 14.288 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:154 Resp: 8258

Ion	Ratio	Lower	Upper
154	100		
153	117.2	94.6	141.8
152	61.4	49.6	74.4

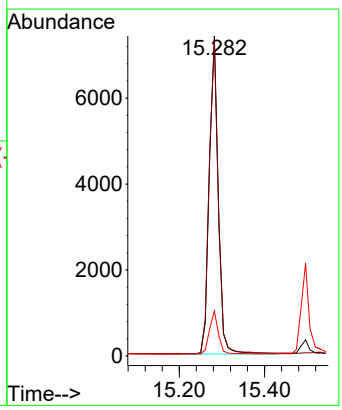


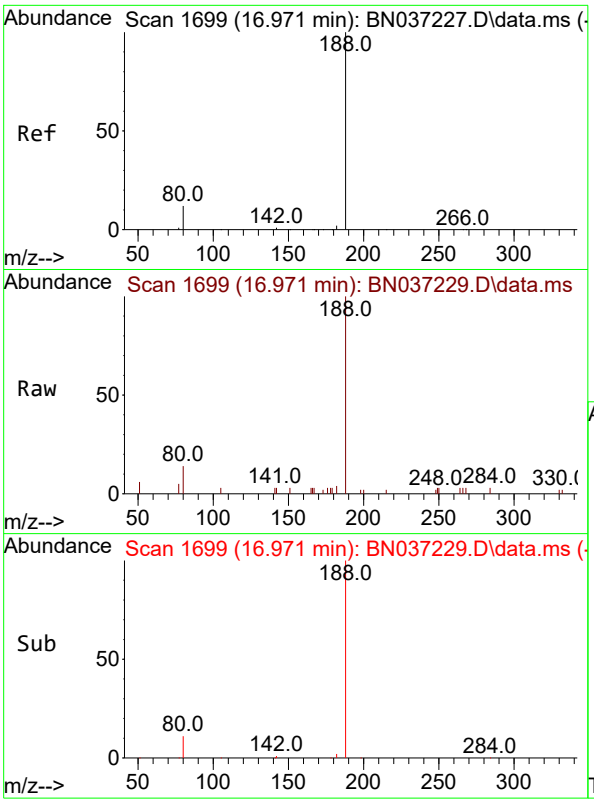


#18
Fluorene
Concen: 1.730 ng
RT: 15.282 min Scan# 1560
Delta R.T. 0.000 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

Tgt Ion:166 Resp: 10814

Ion	Ratio	Lower	Upper
166	100		
165	99.8	79.8	119.6
167	13.5	10.8	16.2



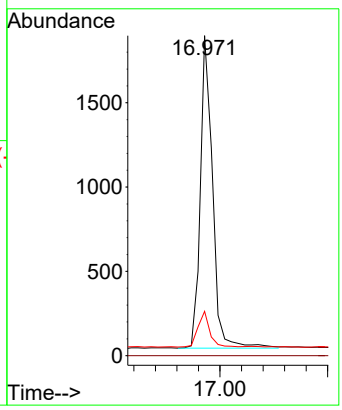


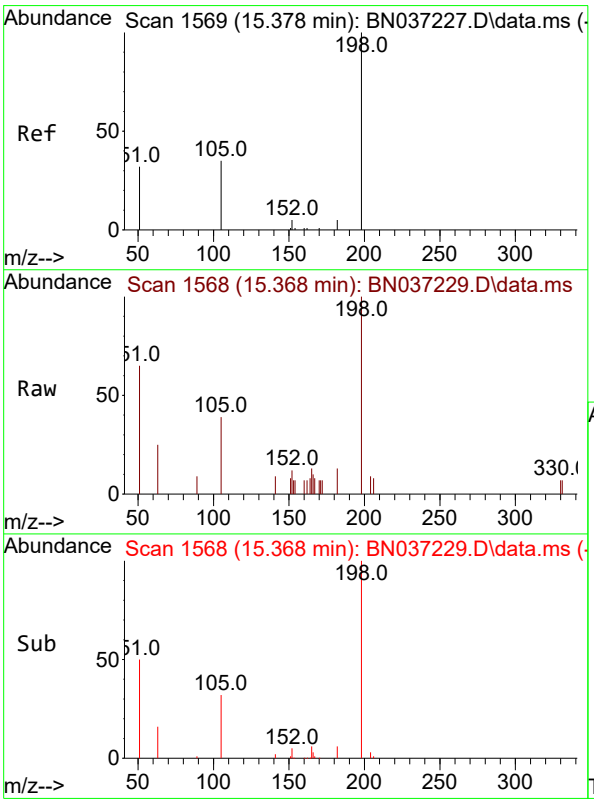
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:188 Resp: 2917

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	13.9	12.2	18.4

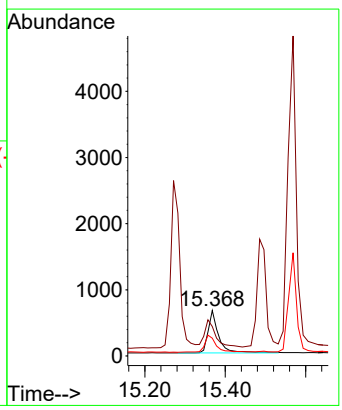


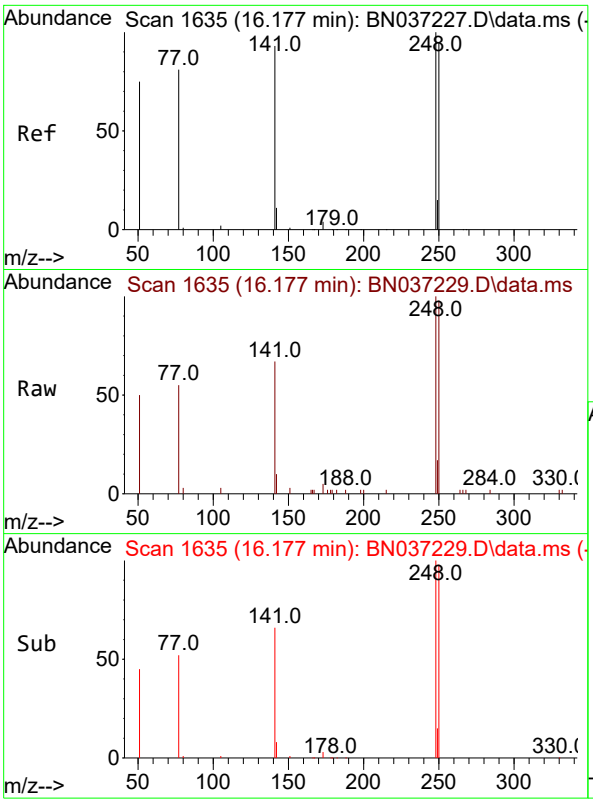


#20
4,6-Dinitro-2-methylphenol
Concen: 1.596 ng
RT: 15.368 min Scan# 1568
Delta R.T. -0.010 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

Tgt Ion:198 Resp: 1171

Ion	Ratio	Lower	Upper
198	100		
51	64.8	111.2	166.8#
105	39.0	54.0	81.0#



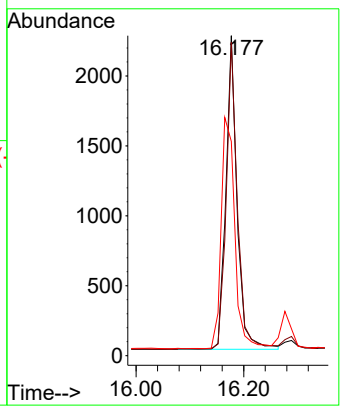


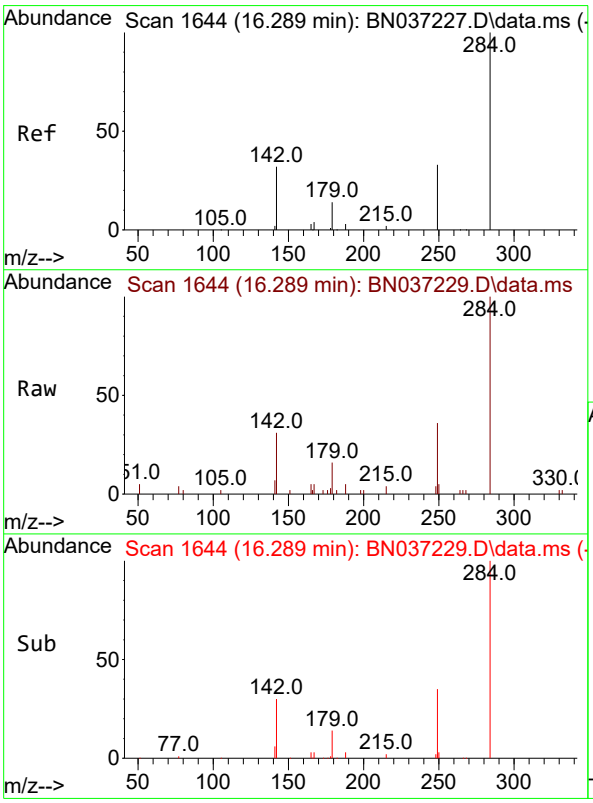
#21
4-Bromophenyl-phenylether
Concen: 1.709 ng
RT: 16.177 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:248 Resp: 3248

Ion	Ratio	Lower	Upper
248	100		
250	98.0	76.8	115.2
141	67.0	75.6	113.4#

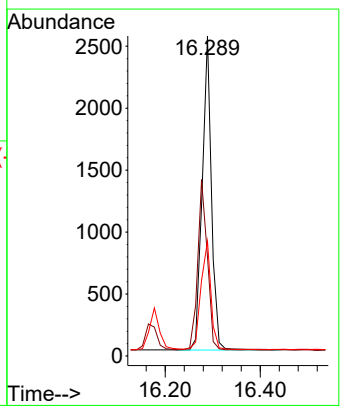


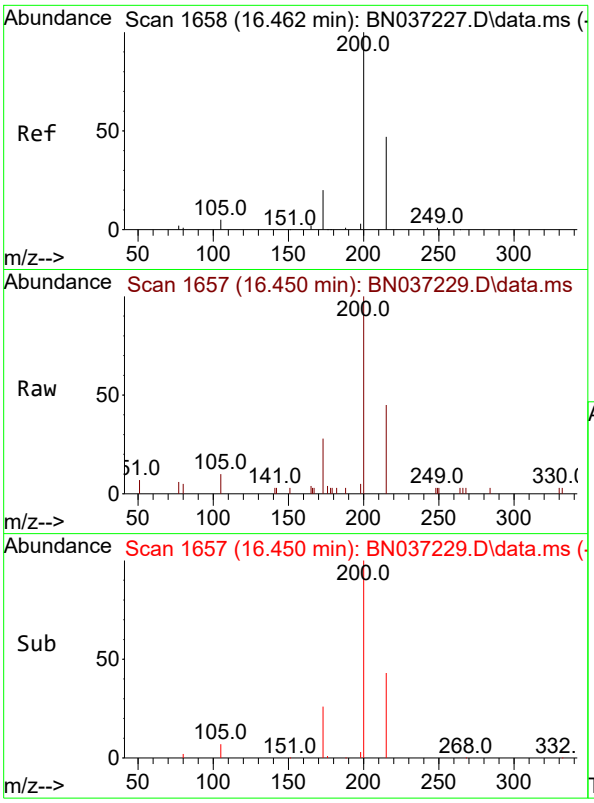


#22
Hexachlorobenzene
Concen: 1.570 ng
RT: 16.289 min Scan# 1644
Delta R.T. 0.000 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

Tgt Ion:284 Resp: 3460

Ion	Ratio	Lower	Upper
284	100		
142	56.0	43.8	65.6
249	36.7	28.4	42.6



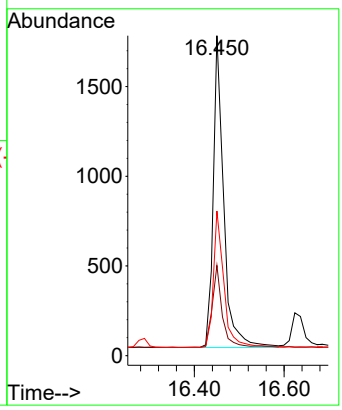


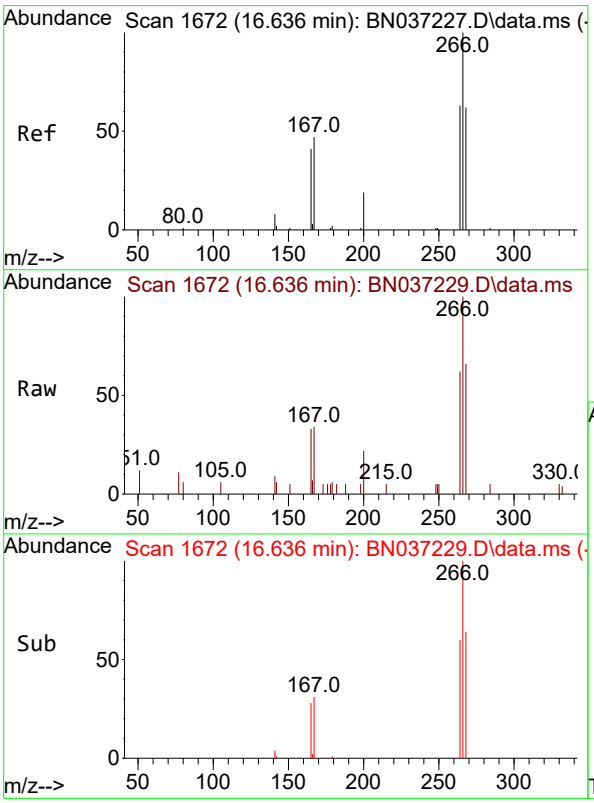
#23
Atrazine
Concen: 1.657 ng
RT: 16.450 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:200 Resp: 2809

Ion	Ratio	Lower	Upper
200	100		
173	28.2	25.1	37.7
215	45.2	43.7	65.5

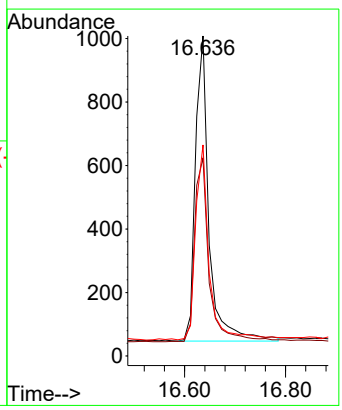


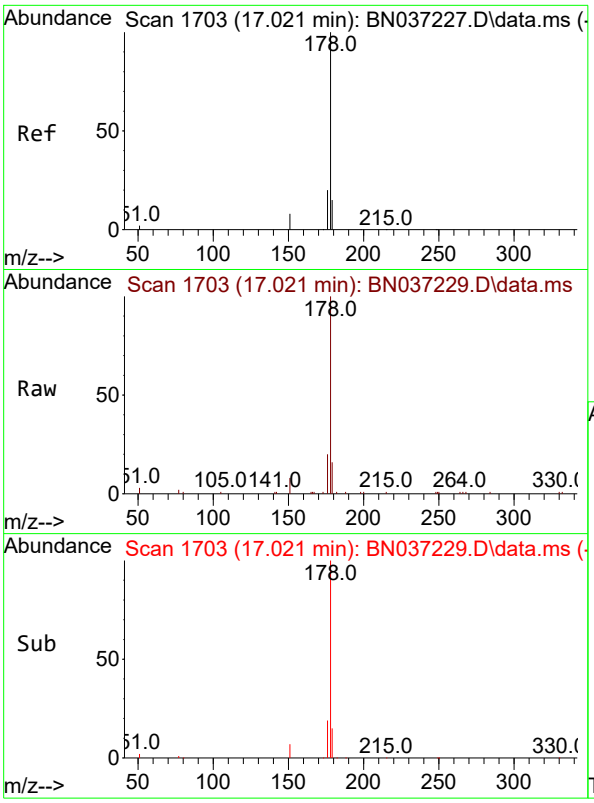


#24
Pentachlorophenol
Concen: 1.667 ng
RT: 16.636 min Scan# 1672
Delta R.T. 0.000 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

Tgt Ion:266 Resp: 1800

Ion	Ratio	Lower	Upper
266	100		
264	63.8	49.2	73.8
268	63.8	53.4	80.2



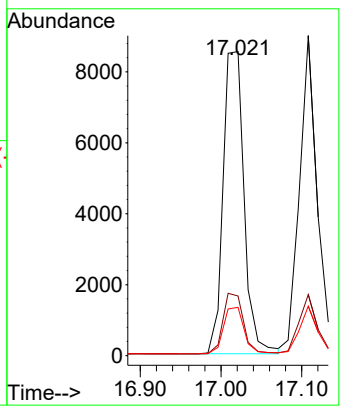


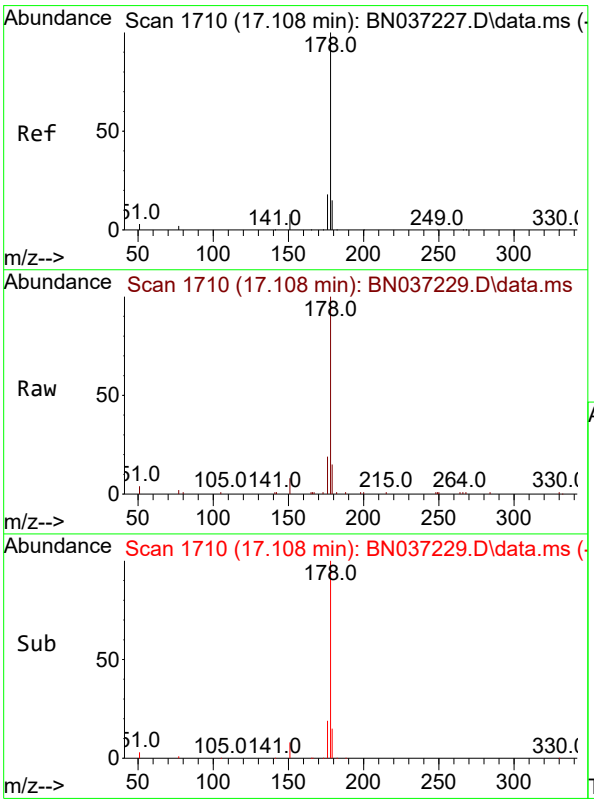
#25
Phenanthrene
Concen: 1.670 ng
RT: 17.021 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:178 Resp: 15448

Ion	Ratio	Lower	Upper
178	100		
176	19.7	16.3	24.5
179	15.2	12.6	18.8

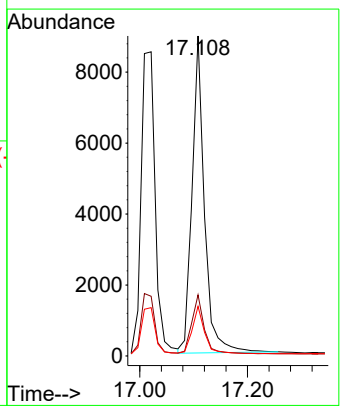


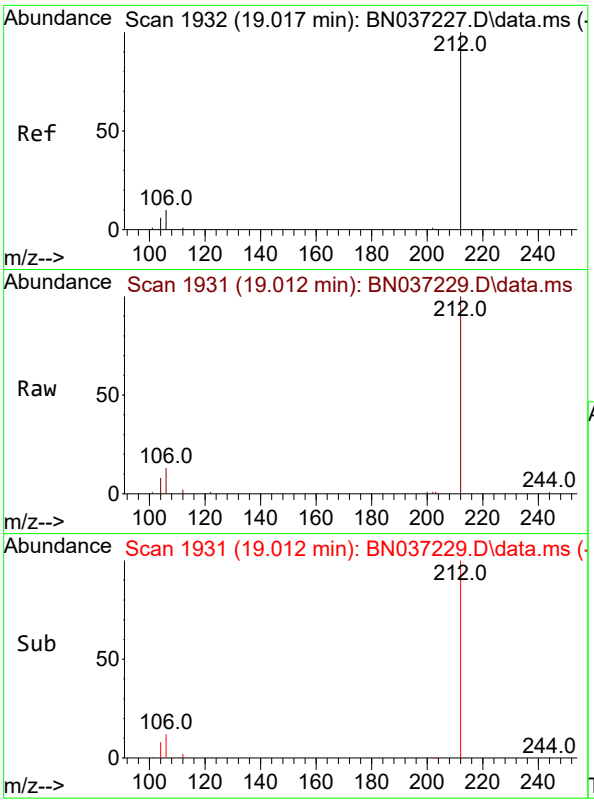


#26
Anthracene
Concen: 1.682 ng
RT: 17.108 min Scan# 1710
Delta R.T. 0.000 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

Tgt Ion:178 Resp: 14243

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.1	22.7
179	15.2	12.4	18.6



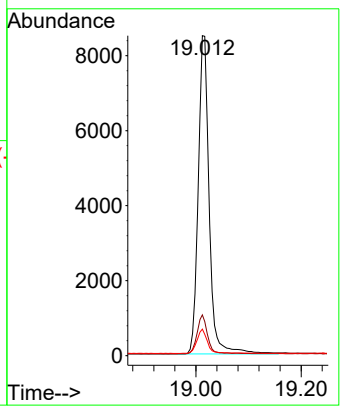


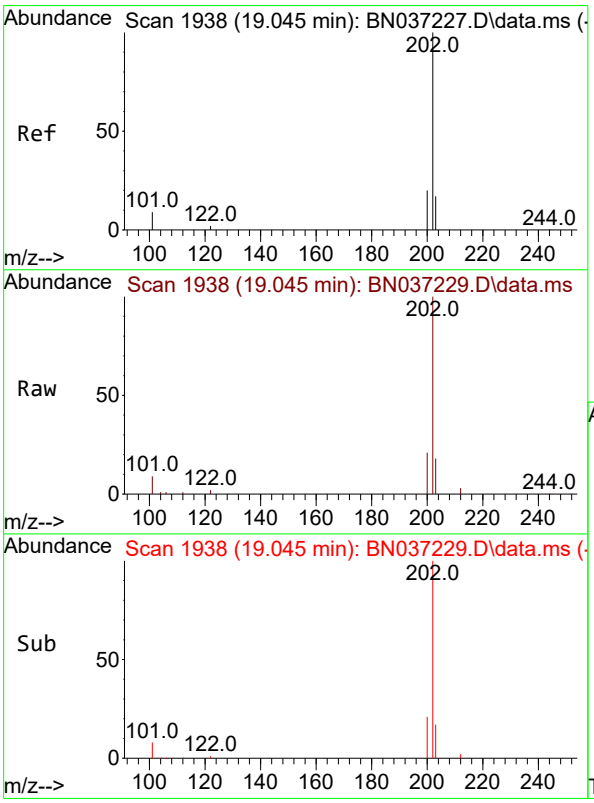
#27
Fluoranthene-d10
Concen: 1.610 ng
RT: 19.012 min Scan# 1
Delta R.T. -0.004 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:212 Resp: 12285

Ion	Ratio	Lower	Upper
212	100		
106	11.4	9.3	13.9
104	7.2	5.7	8.5

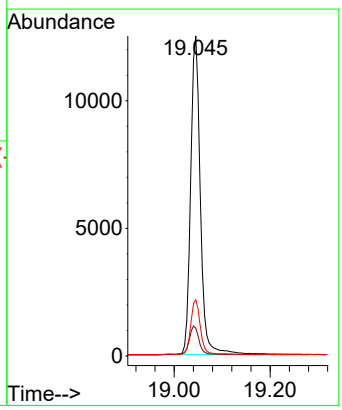


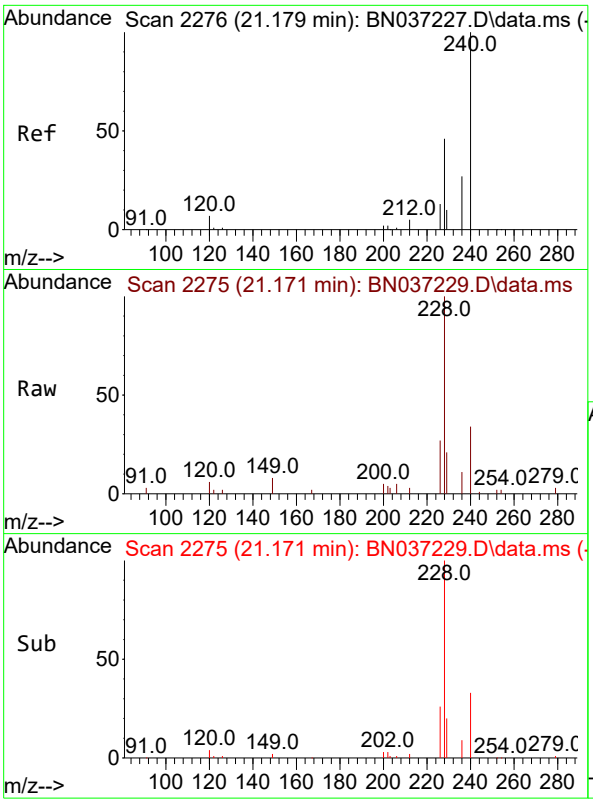


#28
Fluoranthene
Concen: 1.626 ng
RT: 19.045 min Scan# 1938
Delta R.T. 0.000 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

Tgt Ion:202 Resp: 17611

Ion	Ratio	Lower	Upper
202	100		
101	9.3	7.1	10.7
203	17.0	13.0	19.6



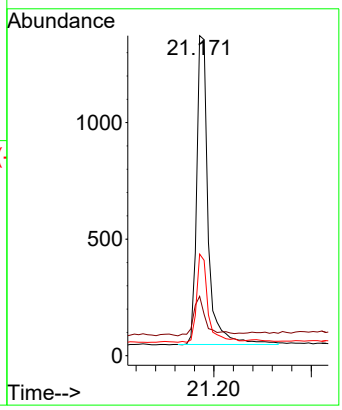


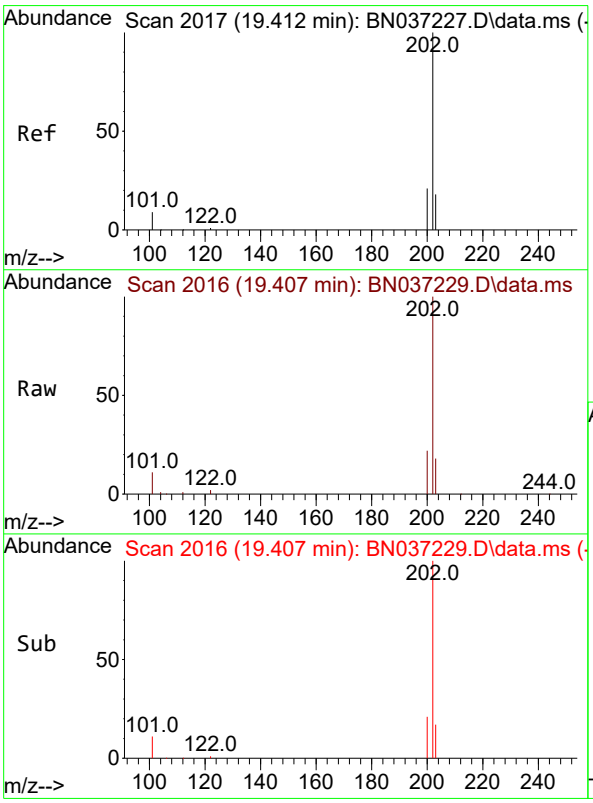
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.171 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:240 Resp: 2167

Ion	Ratio	Lower	Upper
240	100		
120	18.6	11.3	16.9#
236	31.8	24.4	36.6

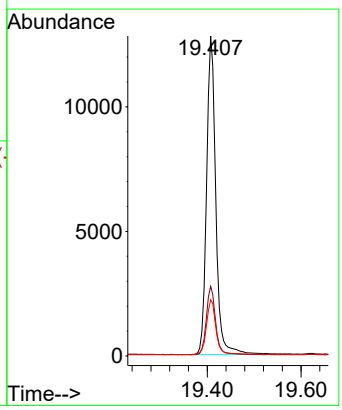


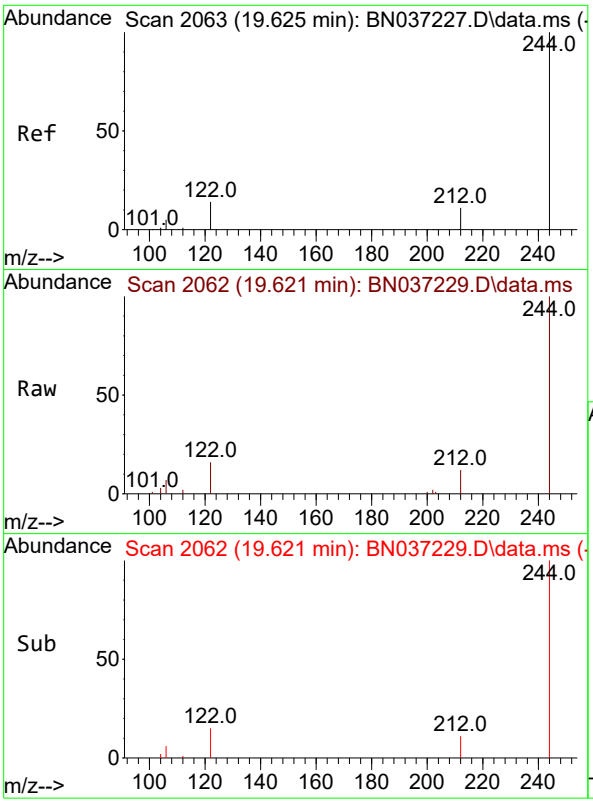


#30
Pyrene
Concen: 1.716 ng
RT: 19.407 min Scan# 2016
Delta R.T. -0.004 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

Tgt Ion:202 Resp: 17479

Ion	Ratio	Lower	Upper
202	100		
200	21.6	17.2	25.8
203	17.7	14.3	21.5



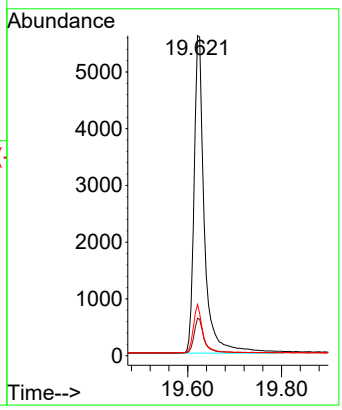


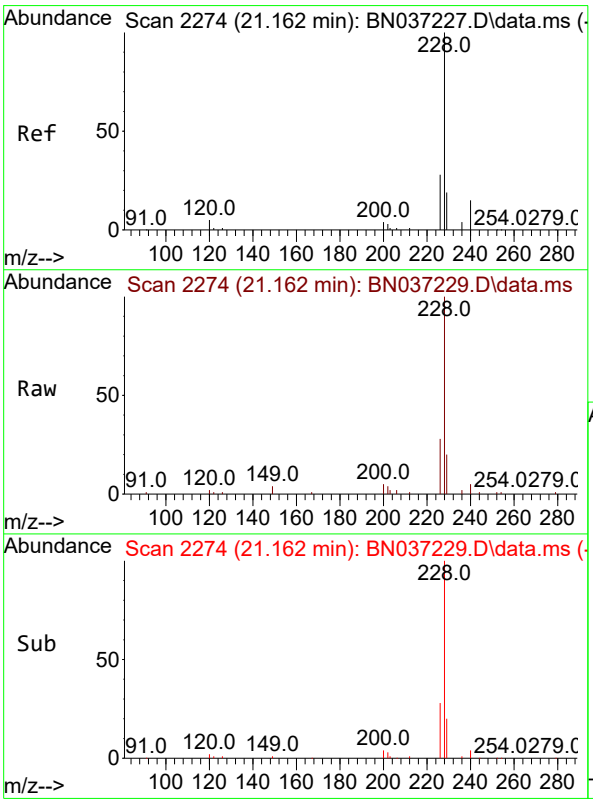
#31
Terphenyl-d14
Concen: 1.751 ng
RT: 19.621 min Scan# 2
Delta R.T. -0.004 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:244 Resp: 8579

Ion	Ratio	Lower	Upper
244	100		
212	11.7	12.2	18.2#
122	16.0	14.3	21.5

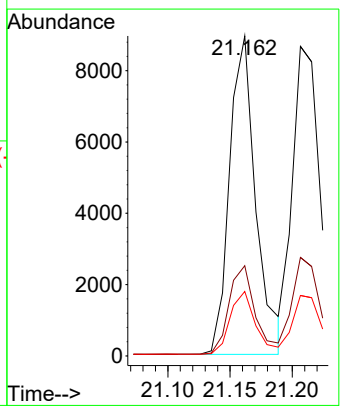


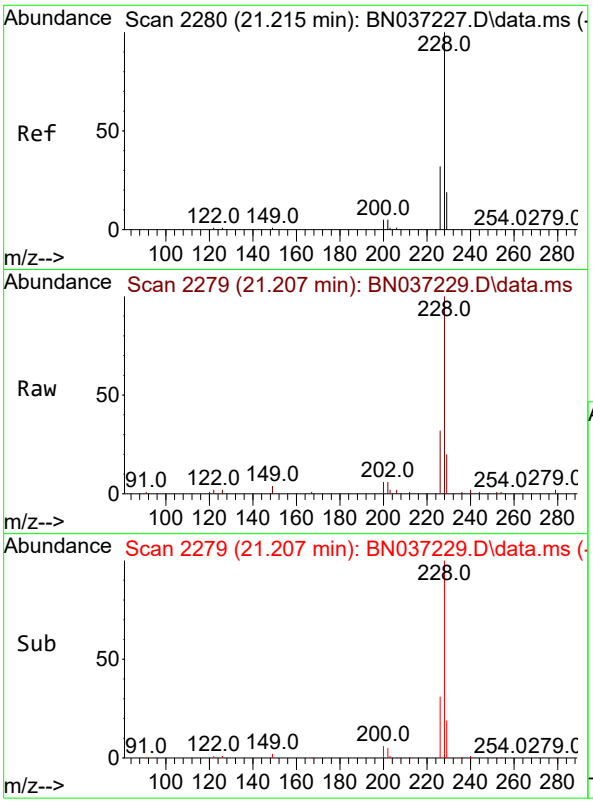


#32
Benzo(a)anthracene
Concen: 1.791 ng
RT: 21.162 min Scan# 2274
Delta R.T. 0.000 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

Tgt Ion:228 Resp: 13105

Ion	Ratio	Lower	Upper
228	100		
226	28.2	23.8	35.8
229	20.1	17.0	25.4



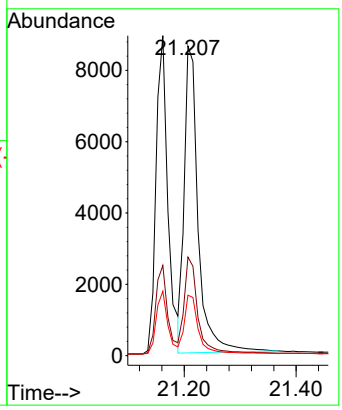


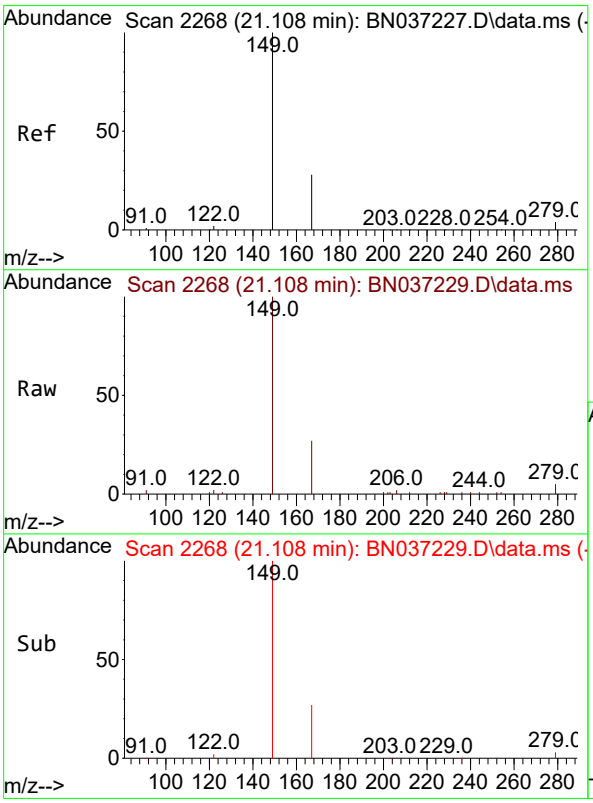
#33
Chrysene
Concen: 1.627 ng
RT: 21.207 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:228 Resp: 14835

Ion	Ratio	Lower	Upper
228	100		
226	31.8	25.8	38.6
229	19.6	17.0	25.4

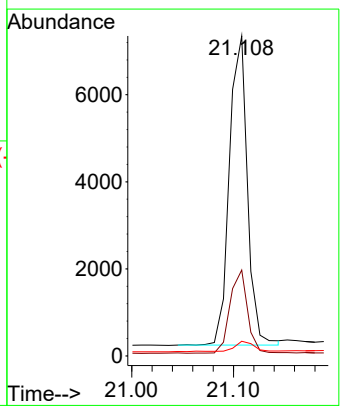


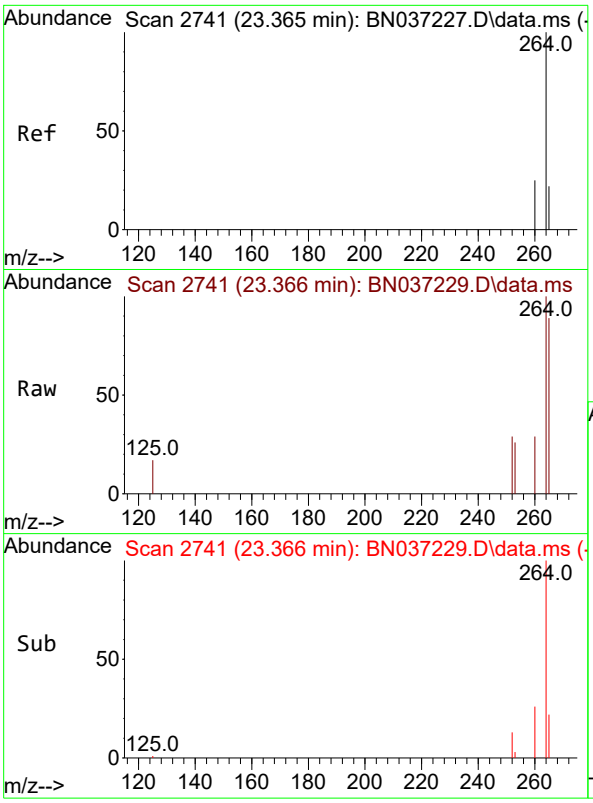


#34
Bis(2-ethylhexyl)phthalate
Concen: 1.599 ng
RT: 21.108 min Scan# 2268
Delta R.T. 0.000 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

Tgt Ion:149 Resp: 8716

Ion	Ratio	Lower	Upper
149	100		
167	26.3	21.3	31.9
279	3.7	3.3	4.9



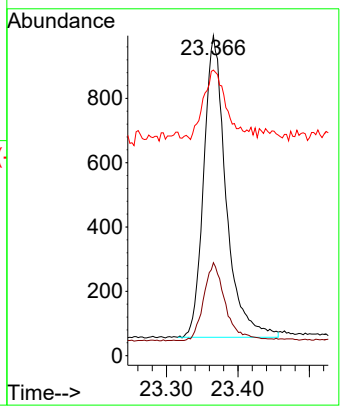


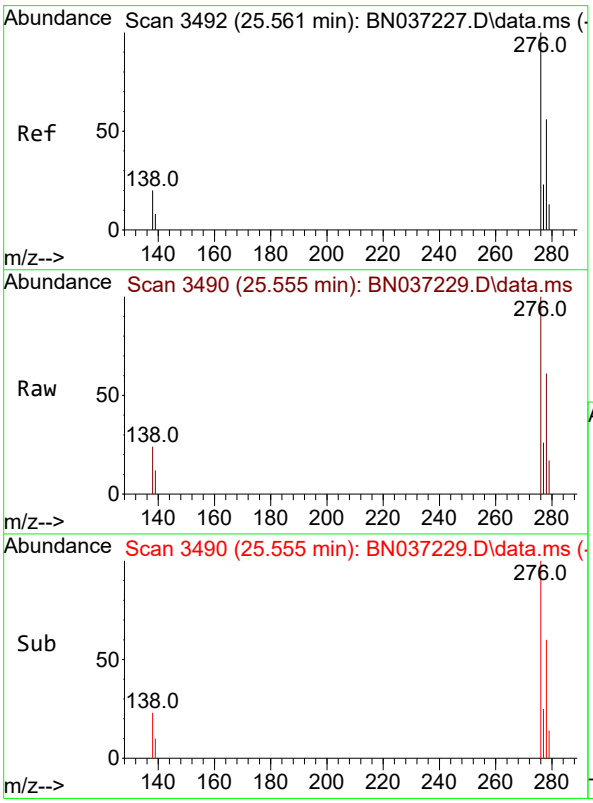
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.366 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:264 Resp: 2036

Ion	Ratio	Lower	Upper
264	100		
260	29.0	22.8	34.2
265	89.2	66.4	99.6

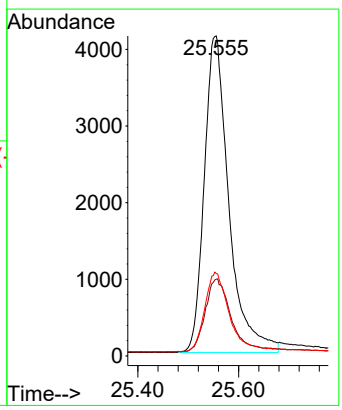


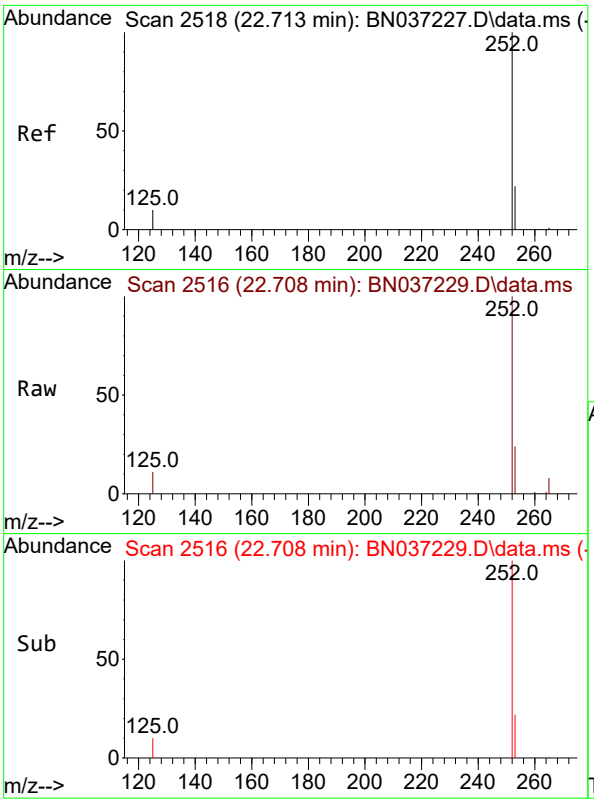


#36
Indeno(1,2,3-cd)pyrene
Concen: 1.704 ng
RT: 25.555 min Scan# 3490
Delta R.T. -0.006 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

Tgt Ion:276 Resp: 13992

Ion	Ratio	Lower	Upper
276	100		
138	23.7	16.8	25.2
277	24.9	19.5	29.3



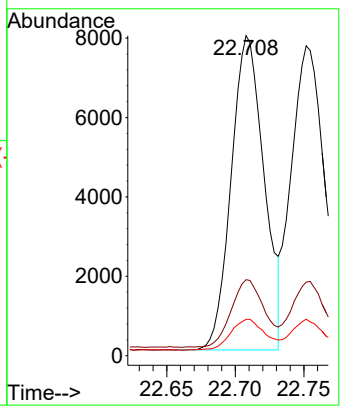


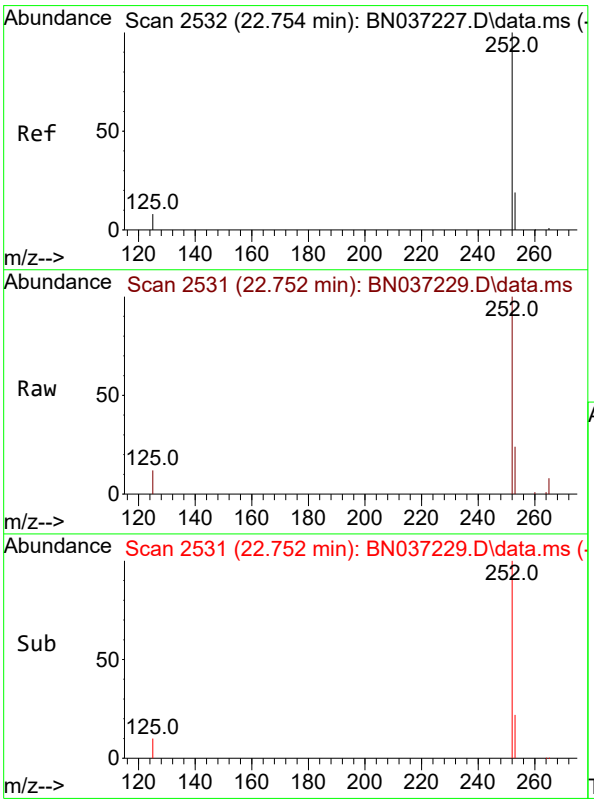
#37
Benzo(b)fluoranthene
Concen: 1.769 ng
RT: 22.708 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:252 Resp: 13177

Ion	Ratio	Lower	Upper
252	100		
253	23.8	24.9	37.3#
125	11.4	12.9	19.3#

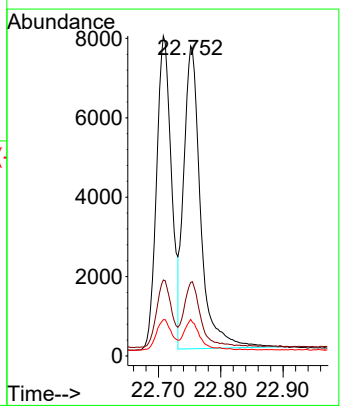


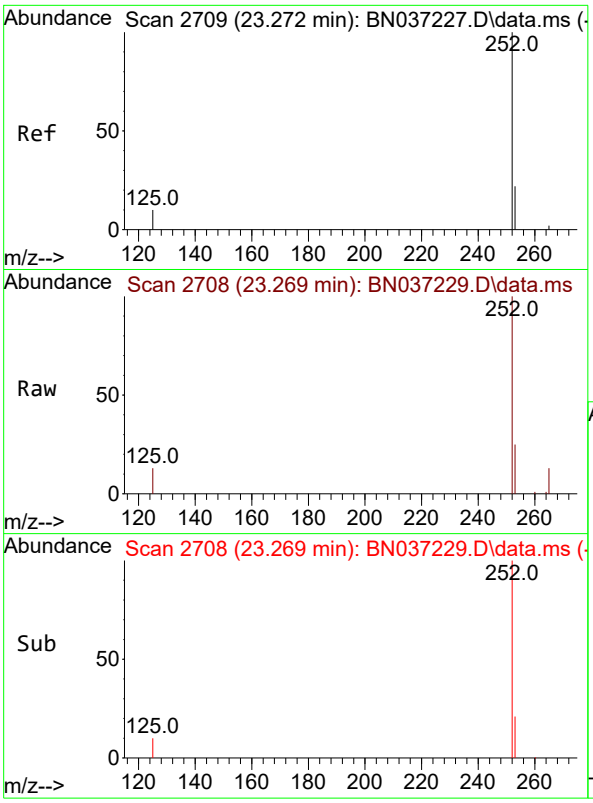


#38
Benzo(k)fluoranthene
Concen: 1.675 ng
RT: 22.752 min Scan# 2531
Delta R.T. -0.003 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

Tgt Ion:252 Resp: 14311

Ion	Ratio	Lower	Upper
252	100		
253	23.8	24.6	37.0#
125	11.8	13.4	20.2#



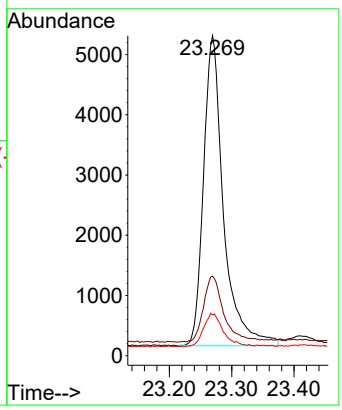


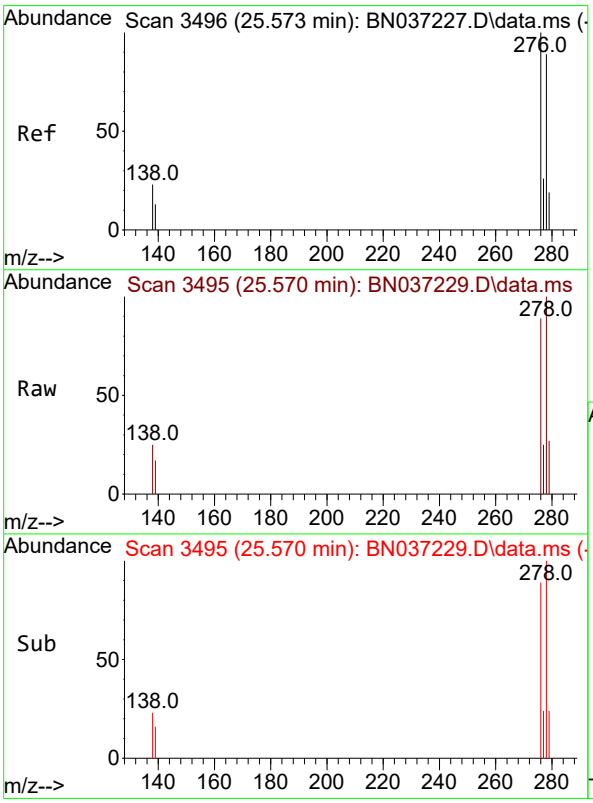
#39
Benzo(a)pyrene
Concen: 1.710 ng
RT: 23.269 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:252 Resp: 11458

Ion	Ratio	Lower	Upper
252	100		
253	24.9	29.4	44.2#
125	12.7	16.2	24.2#

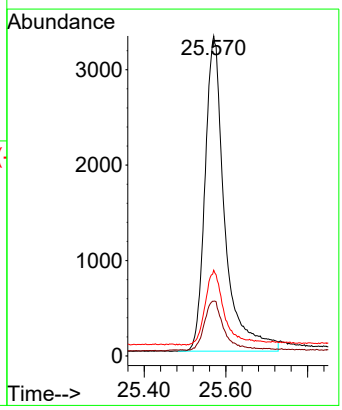


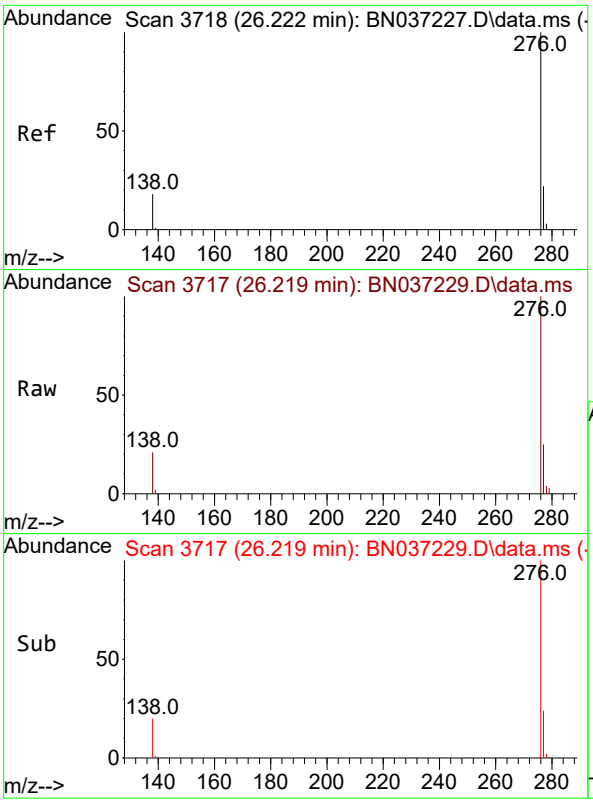


#40
Dibenzo(a,h)anthracene
Concen: 1.793 ng
RT: 25.570 min Scan# 3495
Delta R.T. -0.003 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

Tgt Ion:278 Resp: 11091

Ion	Ratio	Lower	Upper
278	100		
139	17.1	17.8	26.6#
279	26.8	31.3	46.9#



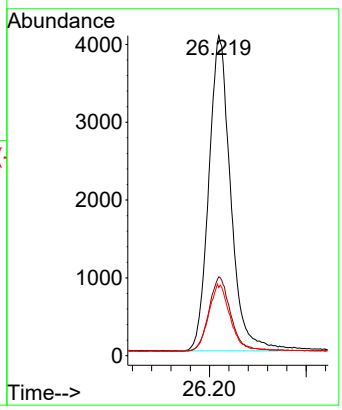


#41
Benzo(g,h,i)perylene
Concen: 1.665 ng
RT: 26.219 min Scan# 3
Delta R.T. -0.003 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:276 Resp: 12677

Ion	Ratio	Lower	Upper
276	100		
277	24.7	22.0	33.0
138	21.3	18.4	27.6



Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037230.D
Acq On : 13 Jun 2025 16:35
Operator : RC/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Quant Time: Jun 13 18:38:27 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:34:15 2025
Response via : Initial Calibration

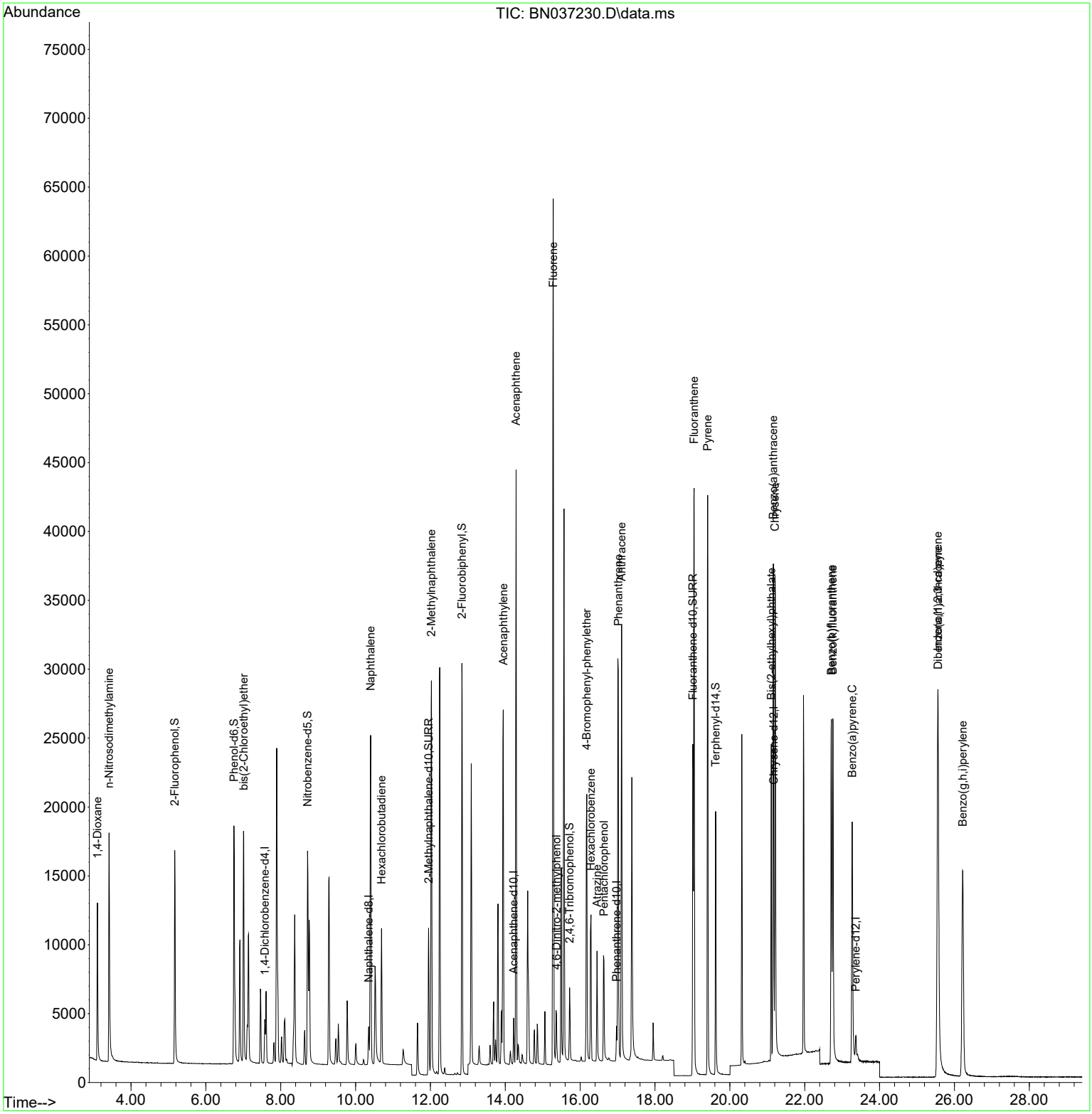
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.575	152	1362	0.400	ng		0.00
7) Naphthalene-d8	10.351	136	3277	0.400	ng		#-0.01
13) Acenaphthene-d10	14.224	164	1730	0.400	ng		0.00
19) Phenanthrene-d10	16.971	188	3218	0.400	ng		0.00
29) Chrysene-d12	21.171	240	2562	0.400	ng		# 0.00
35) Perylene-d12	23.366	264	2434	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.170	112	10792	3.226	ng		0.00
5) Phenol-d6	6.752	99	12700	3.602	ng		0.00
8) Nitrobenzene-d5	8.717	82	11592	3.579	ng		-0.01
11) 2-Methylnaphthalene-d10	11.950	152	14468	3.290	ng		0.00
14) 2,4,6-Tribromophenol	15.718	330	2530	3.521	ng		-0.01
15) 2-Fluorobiphenyl	12.843	172	24600	3.384	ng		0.00
27) Fluoranthene-d10	19.012	212	26844	3.188	ng		0.00
31) Terphenyl-d14	19.621	244	19247	3.323	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.104	88	5606	3.000	ng		94
3) n-Nitrosodimethylamine	3.415	42	13425	3.153	ng		97
6) bis(2-Chloroethyl)ether	7.012	93	11592	3.671	ng		94
9) Naphthalene	10.404	128	30442	3.208	ng		95
10) Hexachlorobutadiene	10.693	225	6997	3.031	ng	#	98
12) 2-Methylnaphthalene	12.026	142	19566	3.392	ng		98
16) Acenaphthylene	13.946	152	28536	3.366	ng		99
17) Acenaphthene	14.288	154	18242	3.334	ng		98
18) Fluorene	15.282	166	23723	3.375	ng		100
20) 4,6-Dinitro-2-methylph...	15.368	198	2836	3.223	ng	#	37
21) 4-Bromophenyl-phenylether	16.177	248	7106	3.389	ng	#	83
22) Hexachlorobenzene	16.289	284	7308	3.006	ng		97
23) Atrazine	16.450	200	6193	3.311	ng		88
24) Pentachlorophenol	16.636	266	4179	3.508	ng		98
25) Phenanthrene	17.021	178	34176	3.349	ng		99
26) Anthracene	17.108	178	32366	3.464	ng		99
28) Fluoranthene	19.045	202	38876	3.254	ng		98
30) Pyrene	19.407	202	38772	3.219	ng		100
32) Benzo(a)anthracene	21.162	228	30893	3.571	ng		96
33) Chrysene	21.207	228	33474	3.106	ng		97
34) Bis(2-ethylhexyl)phtha...	21.108	149	19300	2.996	ng	#	99
36) Indeno(1,2,3-cd)pyrene	25.556	276	34219	3.486	ng	#	94
37) Benzo(b)fluoranthene	22.711	252	30687	3.447	ng	#	85
38) Benzo(k)fluoranthene	22.752	252	33172	3.248	ng	#	85
39) Benzo(a)pyrene	23.269	252	26918	3.361	ng	#	79
40) Dibenzo(a,h)anthracene	25.564	278	27744	3.751	ng	#	81
41) Benzo(g,h,i)perylene	26.219	276	30489	3.350	ng		95

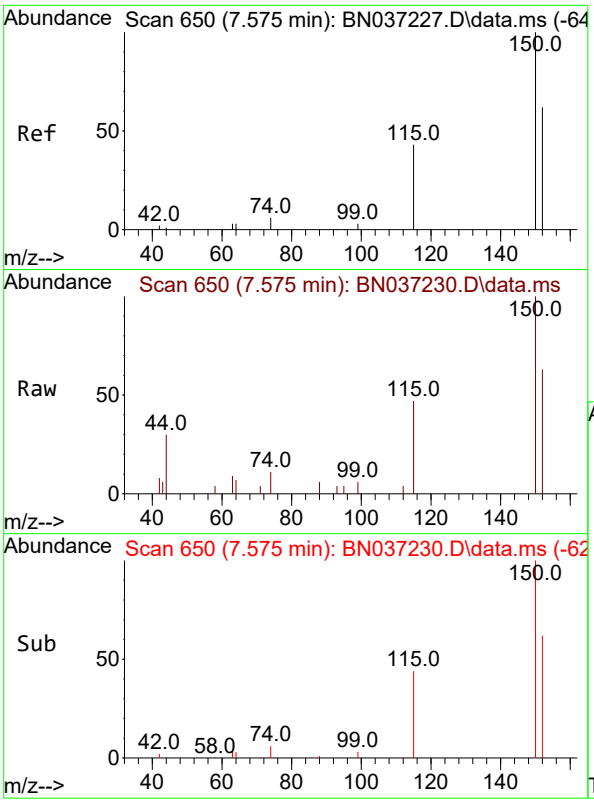
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037230.D
Acq On : 13 Jun 2025 16:35
Operator : RC/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Quant Time: Jun 13 18:38:27 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:34:15 2025
Response via : Initial Calibration



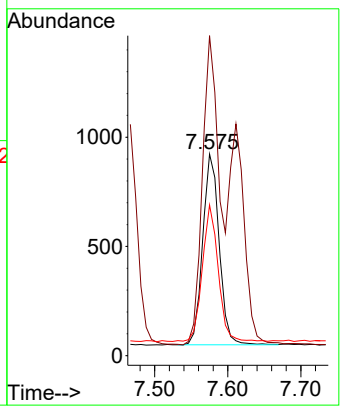


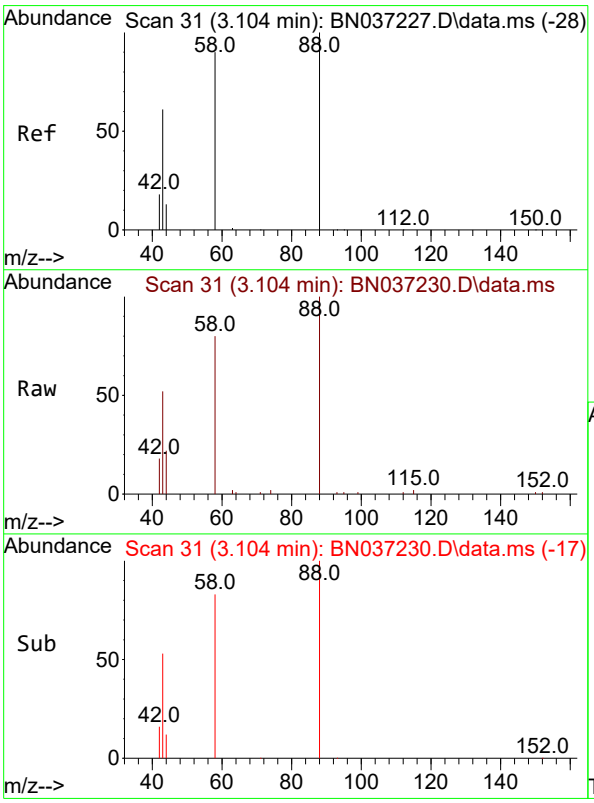
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:152 Resp: 1362

Ion	Ratio	Lower	Upper
152	100		
150	158.7	125.2	187.8
115	74.8	58.4	87.6

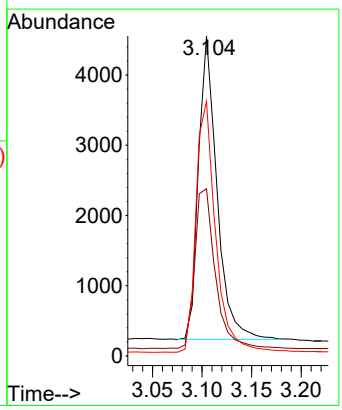


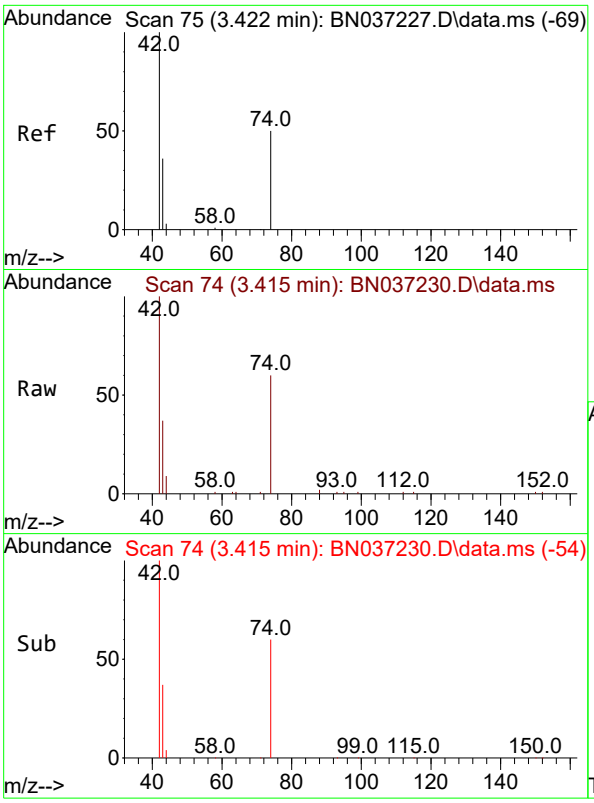


#2
1,4-Dioxane
Concen: 3.000 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

Tgt Ion: 88 Resp: 5606

Ion	Ratio	Lower	Upper
88	100		
43	58.5	52.6	79.0
58	88.1	73.5	110.3



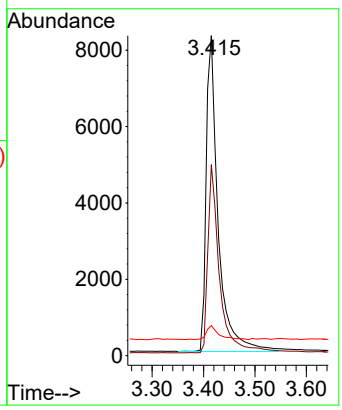


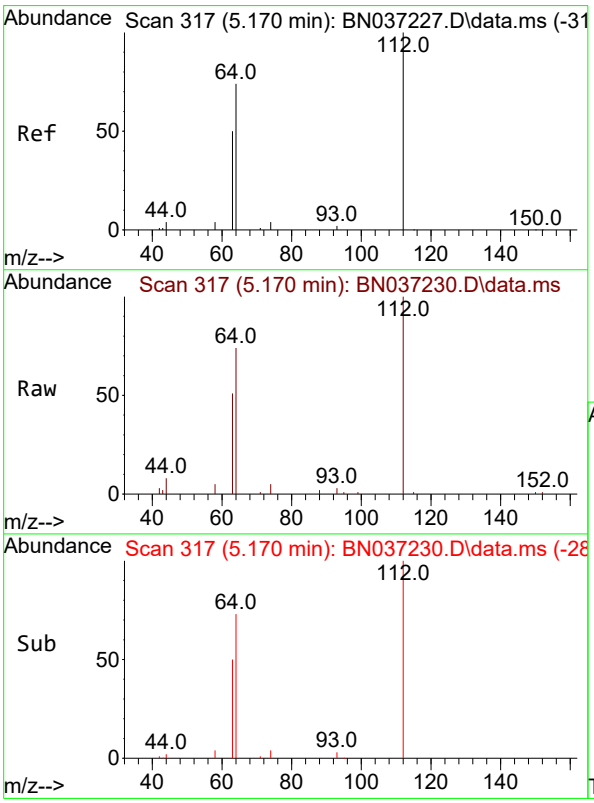
#3
n-Nitrosodimethylamine
Concen: 3.153 ng
RT: 3.415 min Scan# 7
Delta R.T. -0.007 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion: 42 Resp: 13425

Ion	Ratio	Lower	Upper
42	100		
74	58.0	44.6	66.8
44	4.7	3.5	5.3

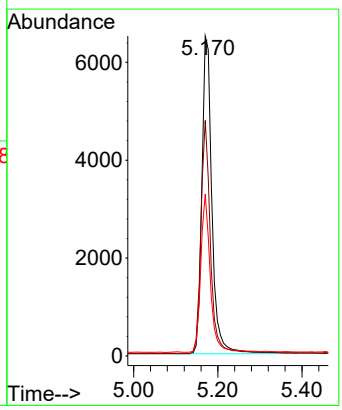


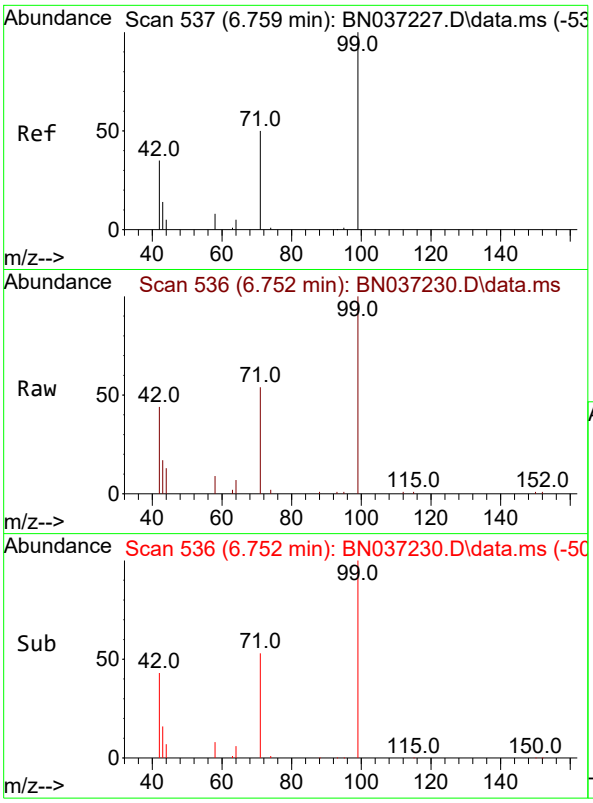


#4
2-Fluorophenol
Concen: 3.226 ng
RT: 5.170 min Scan# 317
Delta R.T. 0.000 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

Tgt Ion:112 Resp: 10792

Ion	Ratio	Lower	Upper
112	100		
64	69.7	57.2	85.8
63	47.3	39.8	59.6



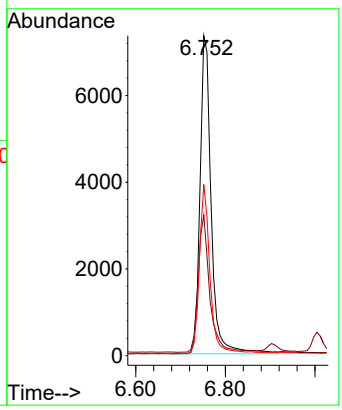


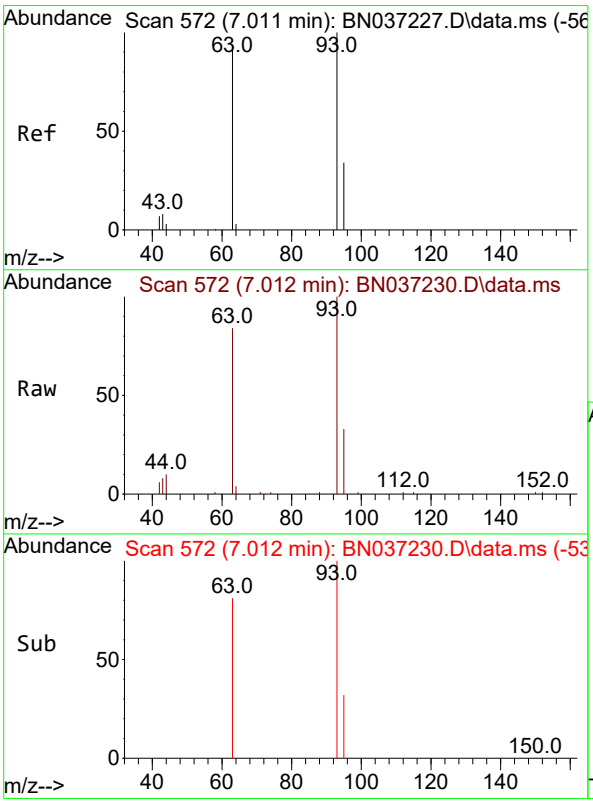
#5
Phenol-d6
Concen: 3.602 ng
RT: 6.752 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion: 99 Resp: 12700

Ion	Ratio	Lower	Upper
99	100		
42	44.5	36.2	54.4
71	51.2	42.4	63.6

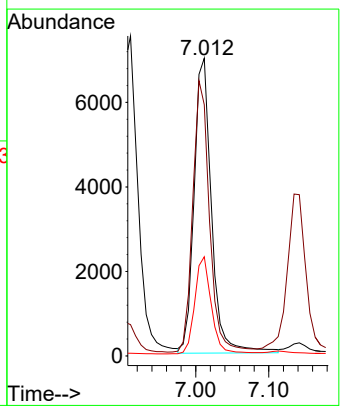


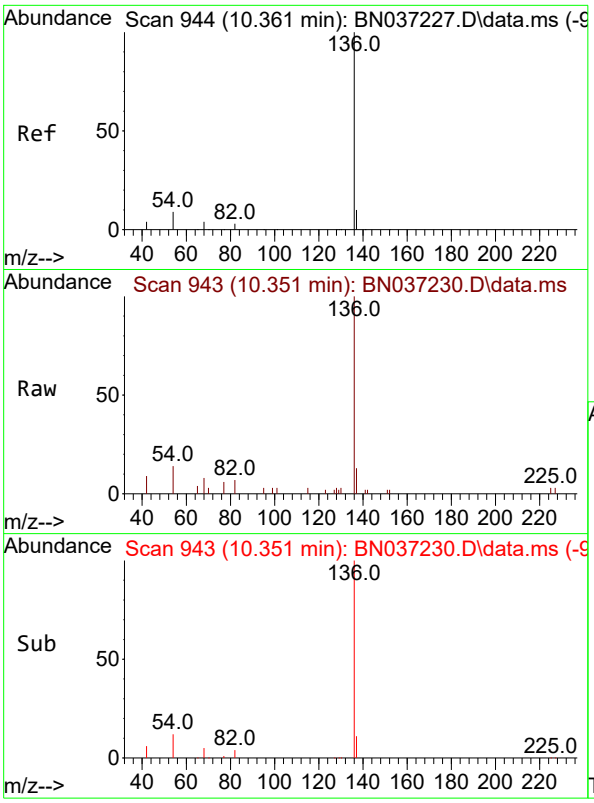


#6
bis(2-Chloroethyl)ether
Concen: 3.671 ng
RT: 7.012 min Scan# 572
Delta R.T. 0.000 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

Tgt Ion: 93 Resp: 11592

Ion	Ratio	Lower	Upper
93	100		
63	88.1	75.2	112.8
95	31.1	28.3	42.5



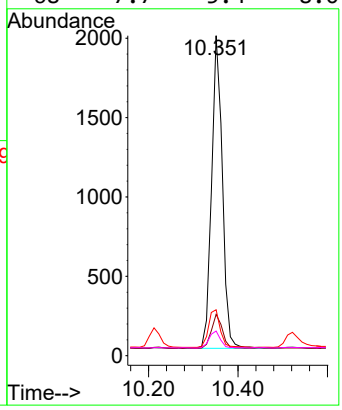


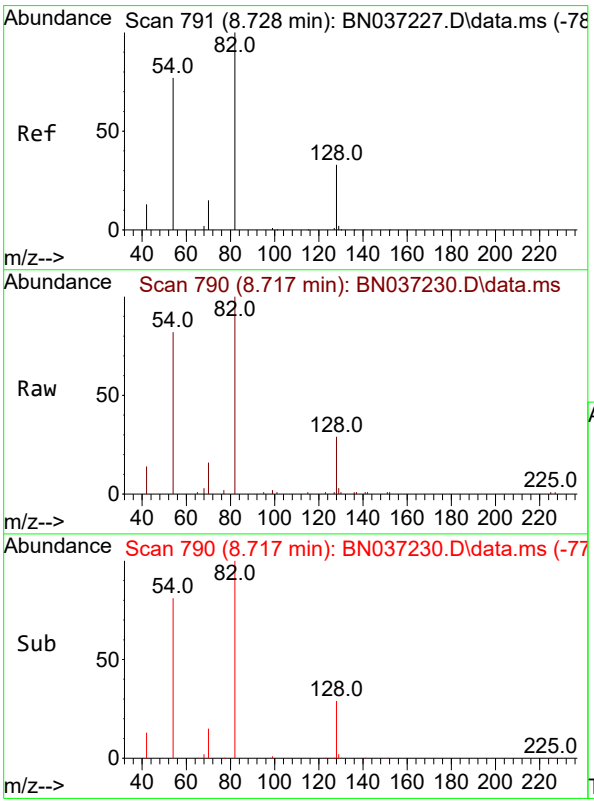
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 94
Delta R.T. -0.010 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:136 Resp: 3277

Ion	Ratio	Lower	Upper
136	100		
137	12.9	10.6	15.8
54	14.4	9.2	13.8#
68	7.7	5.4	8.0

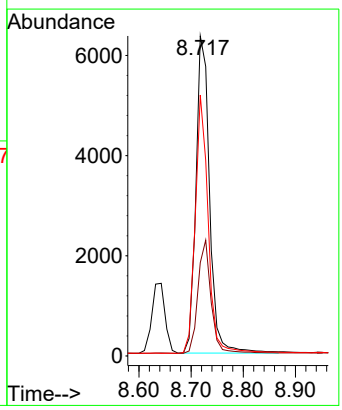


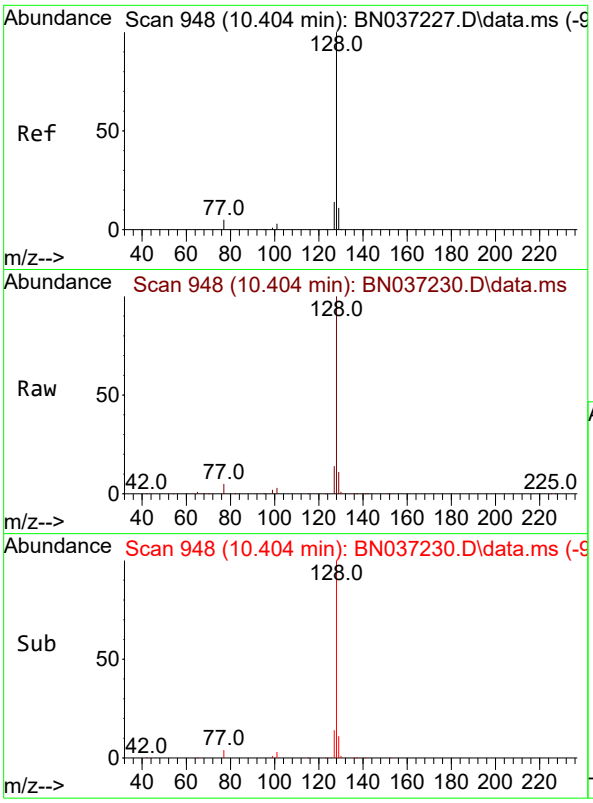


#8
Nitrobenzene-d5
Concen: 3.579 ng
RT: 8.717 min Scan# 790
Delta R.T. -0.010 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

Tgt Ion: 82 Resp: 11592

Ion	Ratio	Lower	Upper
82	100		
128	29.1	31.2	46.8#
54	81.6	63.3	94.9



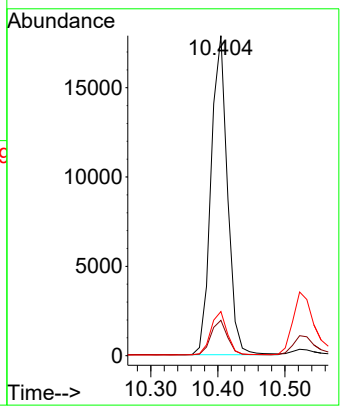


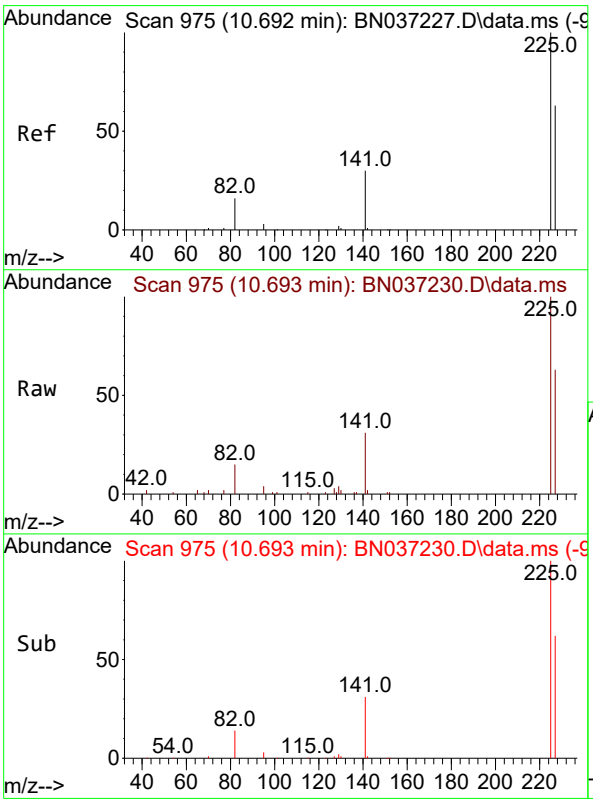
#9
Naphthalene
Concen: 3.208 ng
RT: 10.404 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:128 Resp: 30442

Ion	Ratio	Lower	Upper
128	100		
129	11.1	10.7	16.1
127	13.8	12.6	19.0

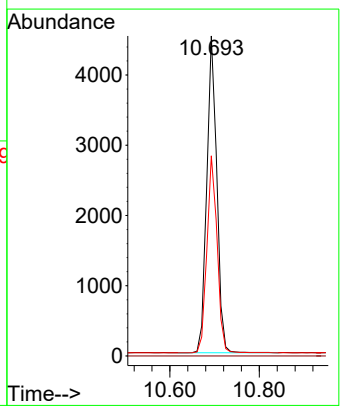


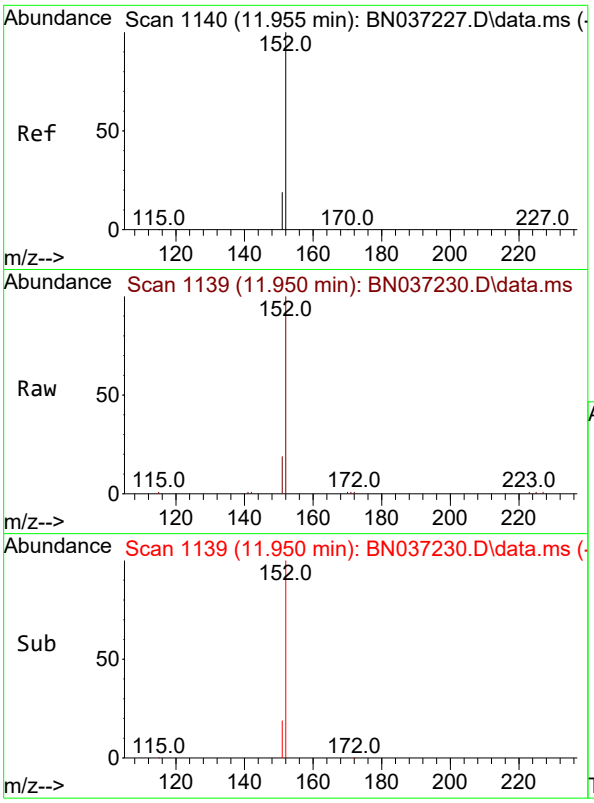


#10
Hexachlorobutadiene
Concen: 3.031 ng
RT: 10.693 min Scan# 975
Delta R.T. 0.000 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

Tgt Ion:225 Resp: 6997

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.2	49.2	73.8



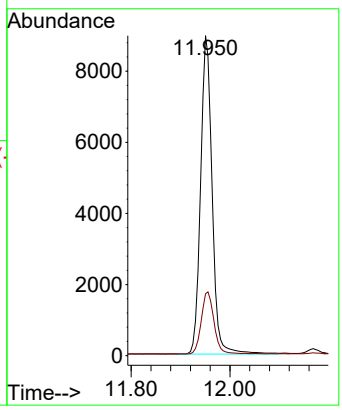


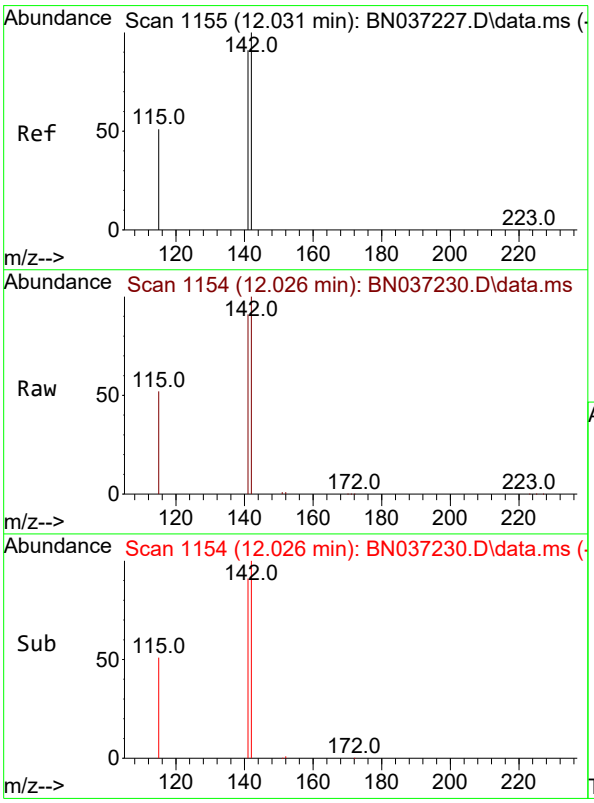
#11
2-Methylnaphthalene-d10
Concen: 3.290 ng
RT: 11.950 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:152 Resp: 14468

Ion	Ratio	Lower	Upper
152	100		
151	21.4	17.9	26.9

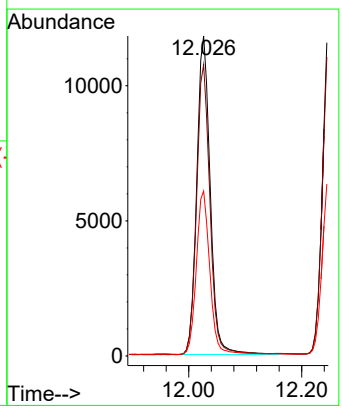


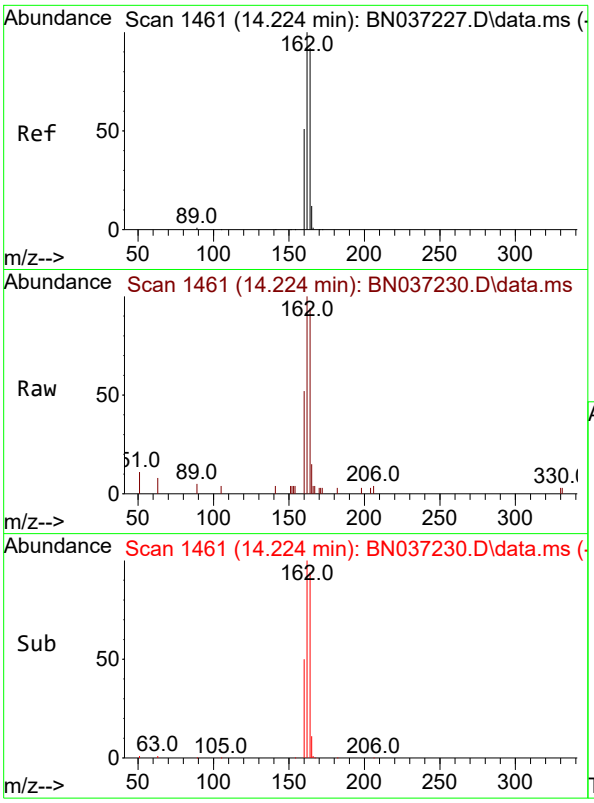


#12
2-Methylnaphthalene
Concen: 3.392 ng
RT: 12.026 min Scan# 1154
Delta R.T. -0.005 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

Tgt Ion:142 Resp: 19566

Ion	Ratio	Lower	Upper
142	100		
141	91.0	73.0	109.6
115	51.5	43.3	64.9



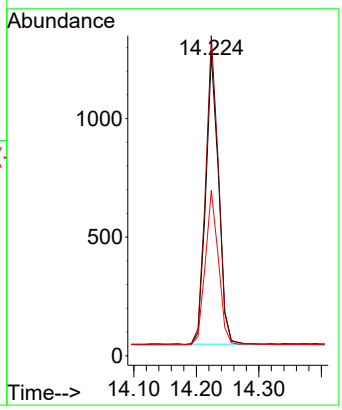


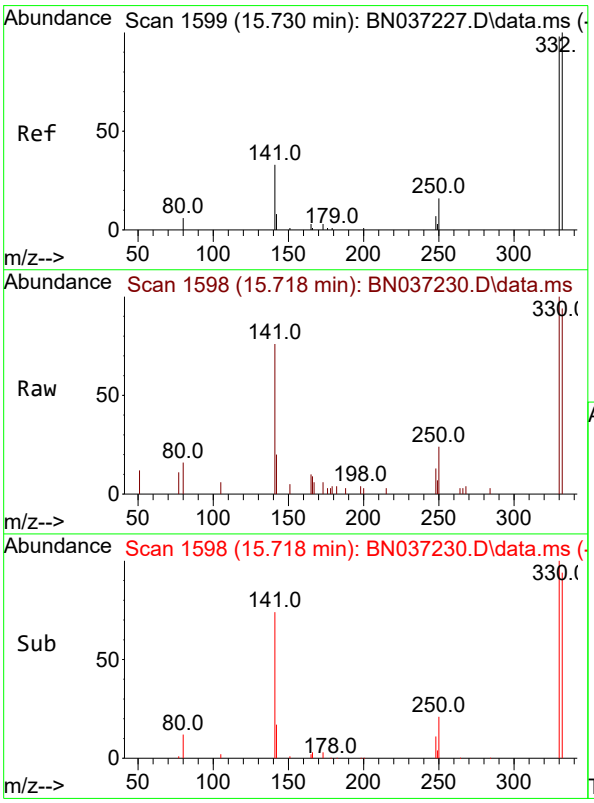
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:164 Resp: 1730

Ion	Ratio	Lower	Upper
164	100		
162	106.3	86.7	130.1
160	55.0	45.8	68.6

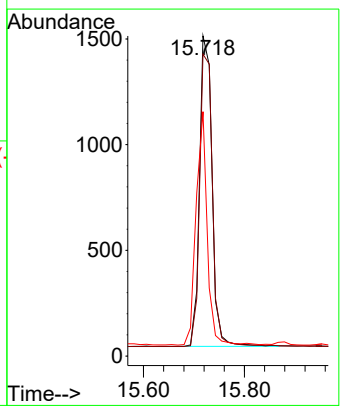


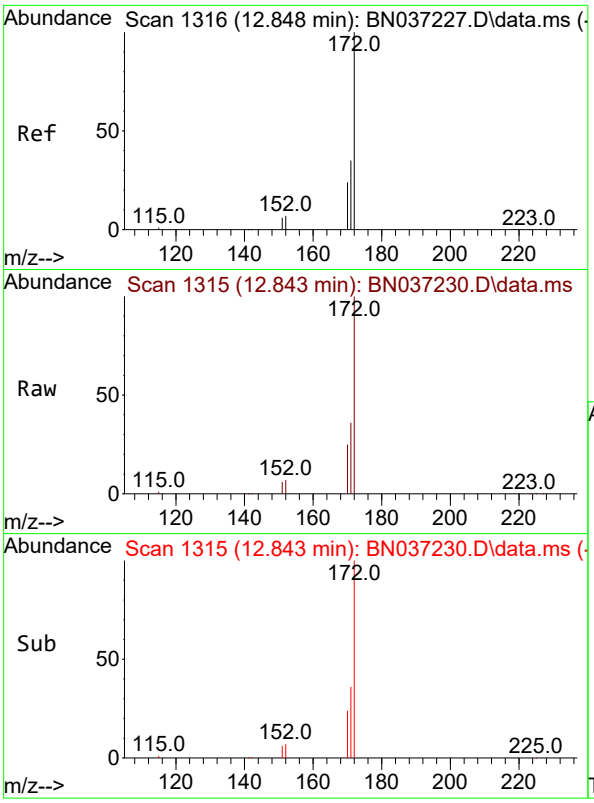


#14
2,4,6-Tribromophenol
Concen: 3.521 ng
RT: 15.718 min Scan# 1598
Delta R.T. -0.012 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

Tgt Ion:330 Resp: 2530

Ion	Ratio	Lower	Upper
330	100		
332	96.8	74.9	112.3
141	67.2	45.1	67.7



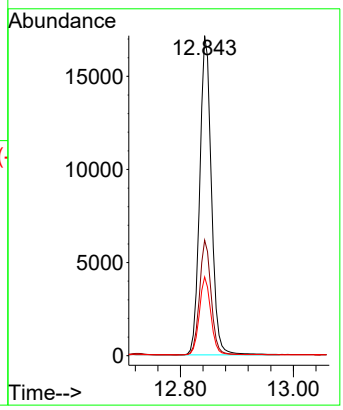


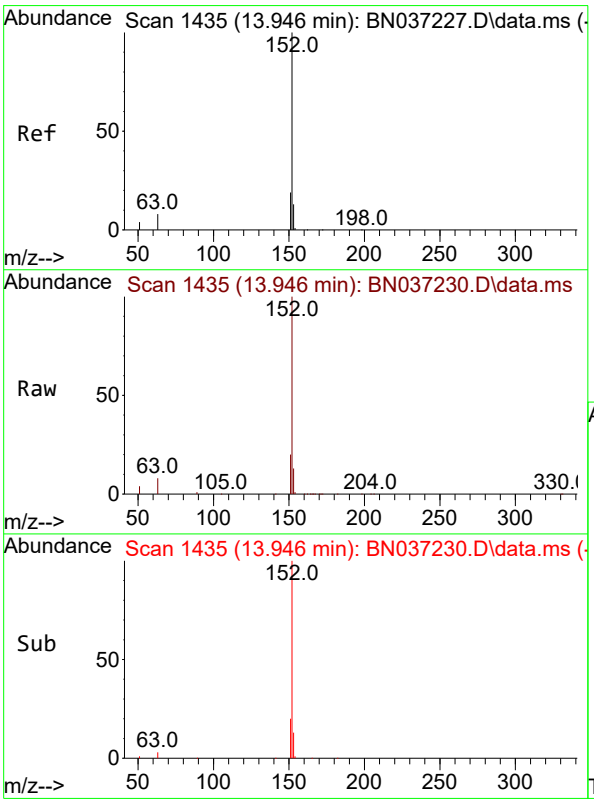
#15
2-Fluorobiphenyl
Concen: 3.384 ng
RT: 12.843 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:172 Resp: 24600

Ion	Ratio	Lower	Upper
172	100		
171	36.1	29.8	44.8
170	24.6	21.1	31.7

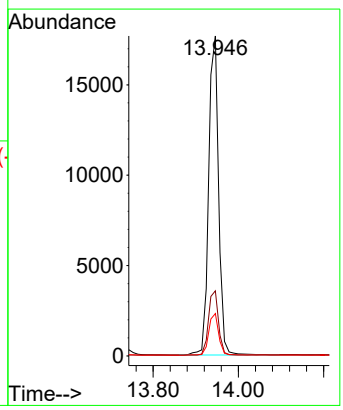


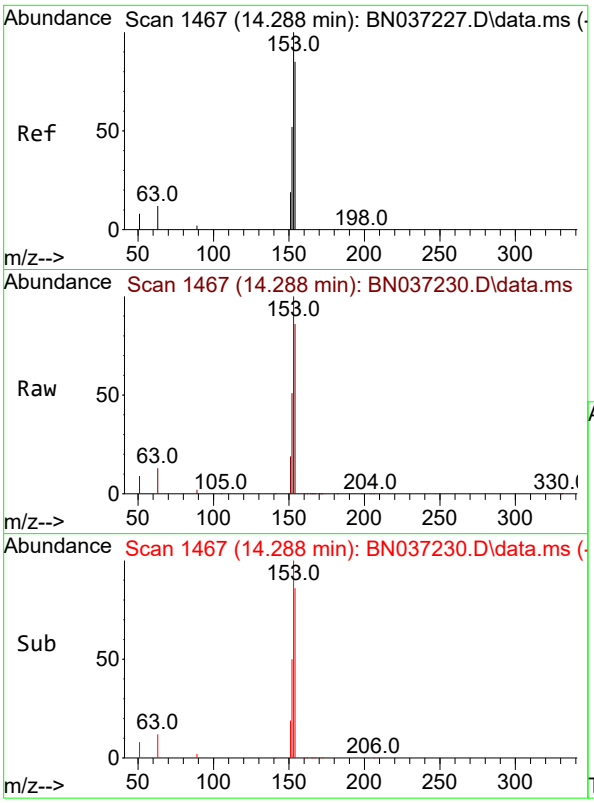


#16
Acenaphthylene
Concen: 3.366 ng
RT: 13.946 min Scan# 1435
Delta R.T. 0.000 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

Tgt Ion:152 Resp: 28536

Ion	Ratio	Lower	Upper
152	100		
151	20.3	15.7	23.5
153	12.9	10.7	16.1



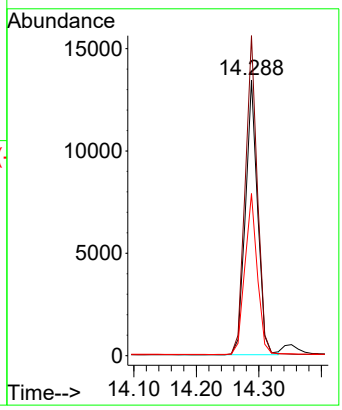


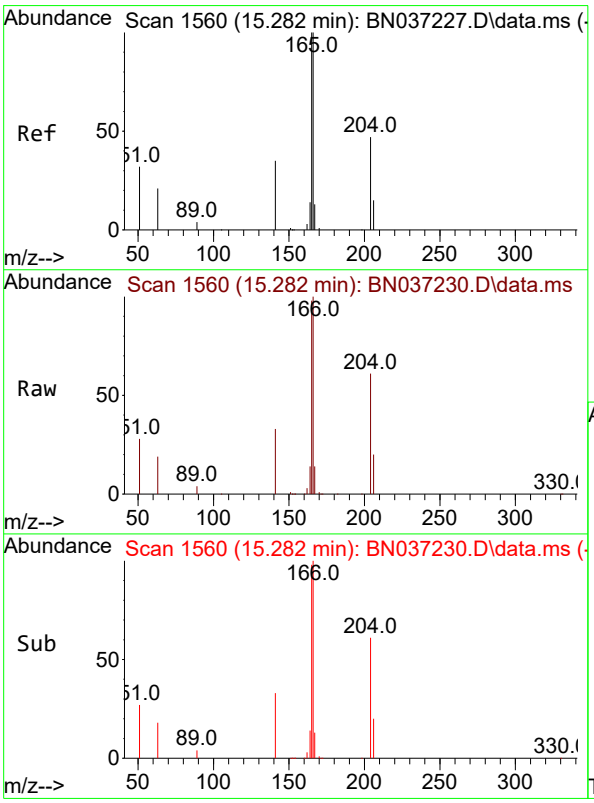
#17
Acenaphthene
Concen: 3.334 ng
RT: 14.288 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:154 Resp: 18242

Ion	Ratio	Lower	Upper
154	100		
153	116.2	94.6	141.8
152	60.0	49.6	74.4

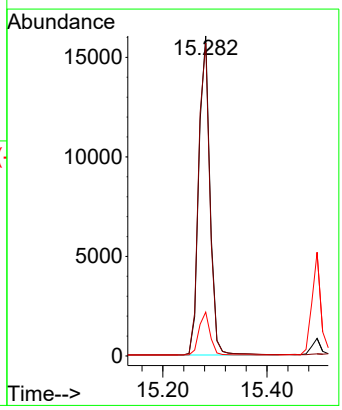


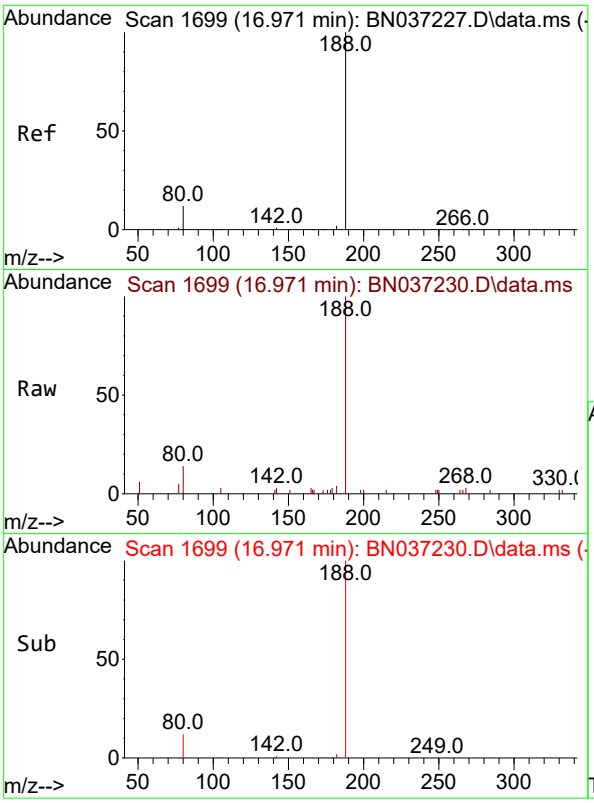


#18
Fluorene
Concen: 3.375 ng
RT: 15.282 min Scan# 1560
Delta R.T. 0.000 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

Tgt Ion:166 Resp: 23723

Ion	Ratio	Lower	Upper
166	100		
165	99.9	79.8	119.6
167	13.4	10.8	16.2



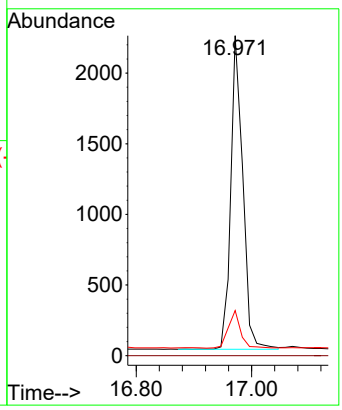


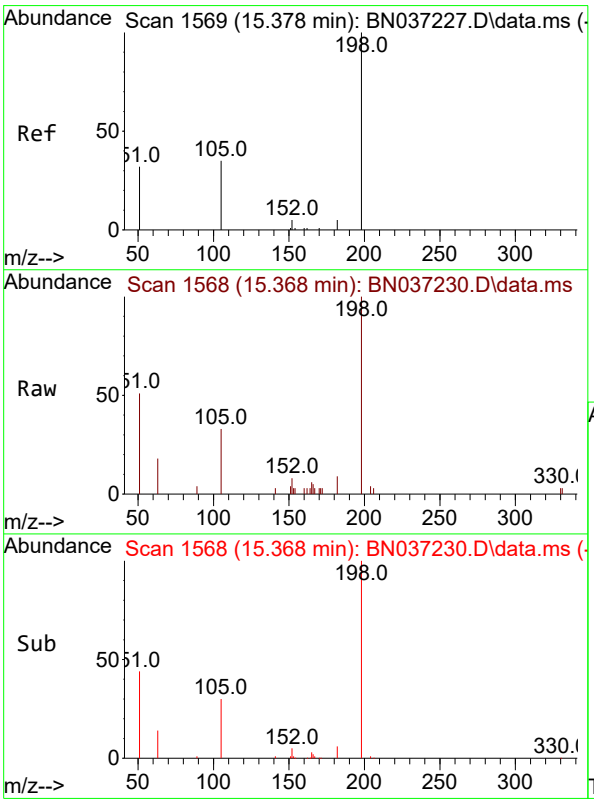
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:188 Resp: 3218

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	14.1	12.2	18.4

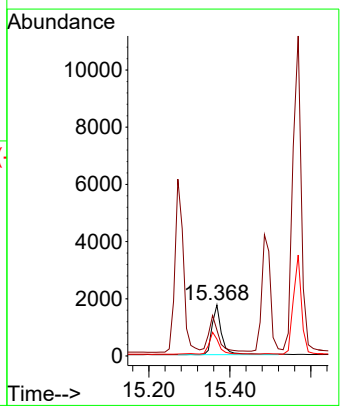


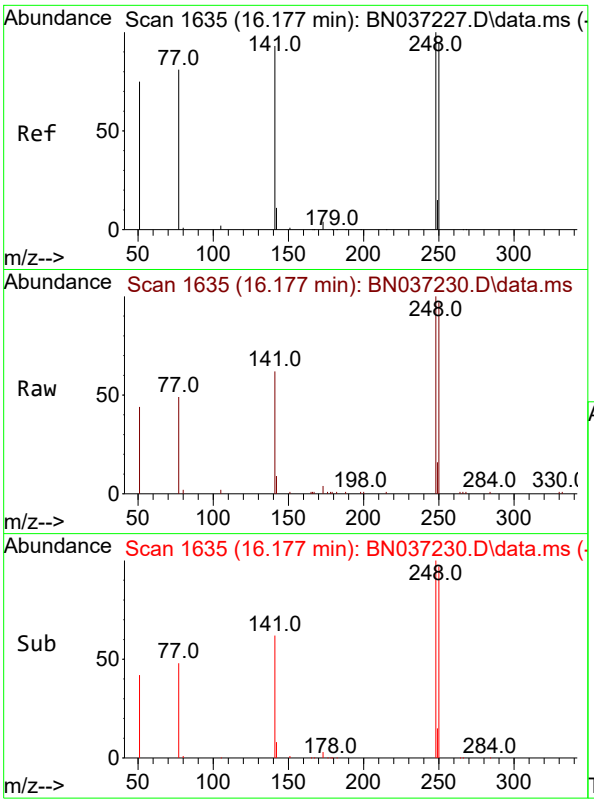


#20
4,6-Dinitro-2-methylphenol
Concen: 3.223 ng
RT: 15.368 min Scan# 1568
Delta R.T. -0.010 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

Tgt Ion:198 Resp: 2836

Ion	Ratio	Lower	Upper
198	100		
51	50.6	111.2	166.8#
105	32.9	54.0	81.0#



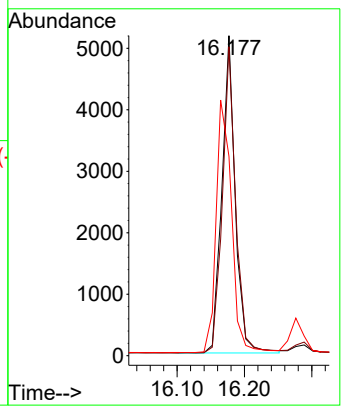


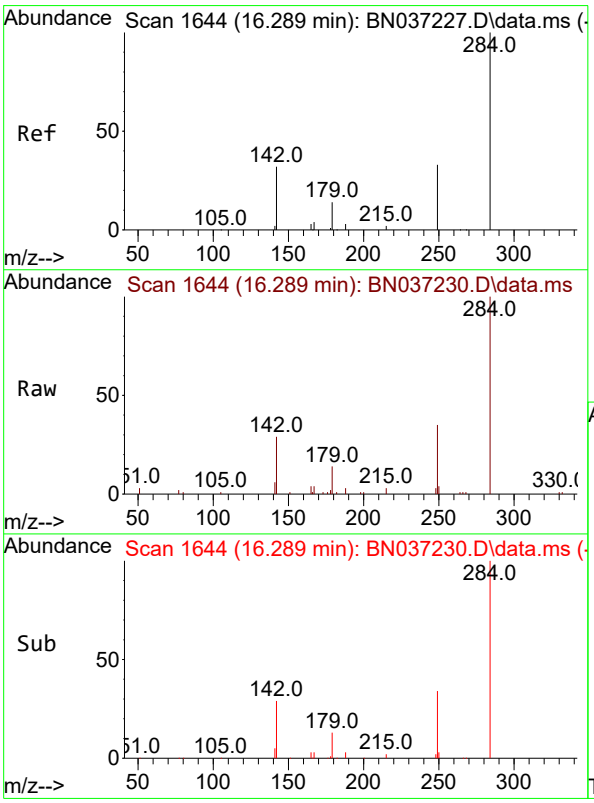
#21
4-Bromophenyl-phenylether
Concen: 3.389 ng
RT: 16.177 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:248 Resp: 7106

Ion	Ratio	Lower	Upper
248	100		
250	96.6	76.8	115.2
141	62.3	75.6	113.4#

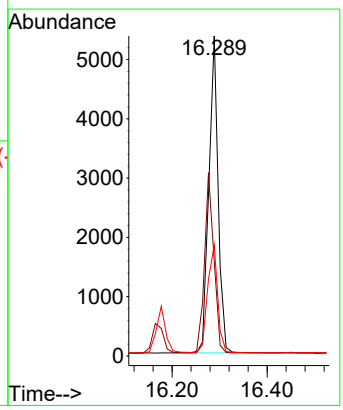


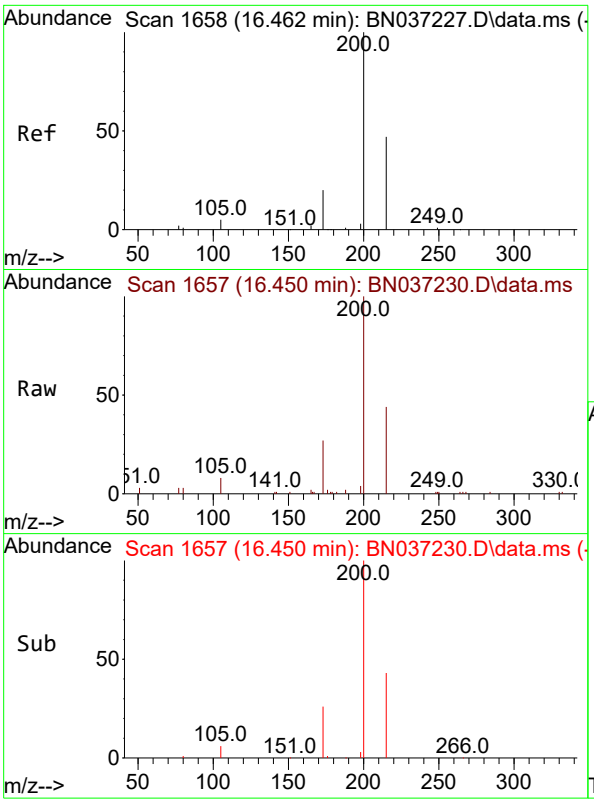


#22
Hexachlorobenzene
Concen: 3.006 ng
RT: 16.289 min Scan# 1644
Delta R.T. 0.000 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

Tgt Ion:284 Resp: 7308

Ion	Ratio	Lower	Upper
284	100		
142	57.3	43.8	65.6
249	36.7	28.4	42.6



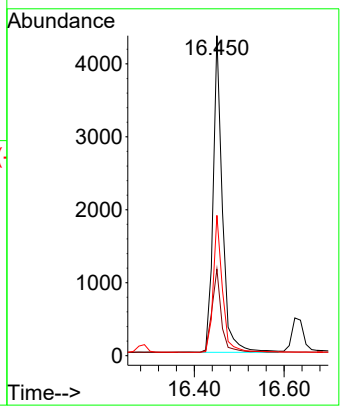


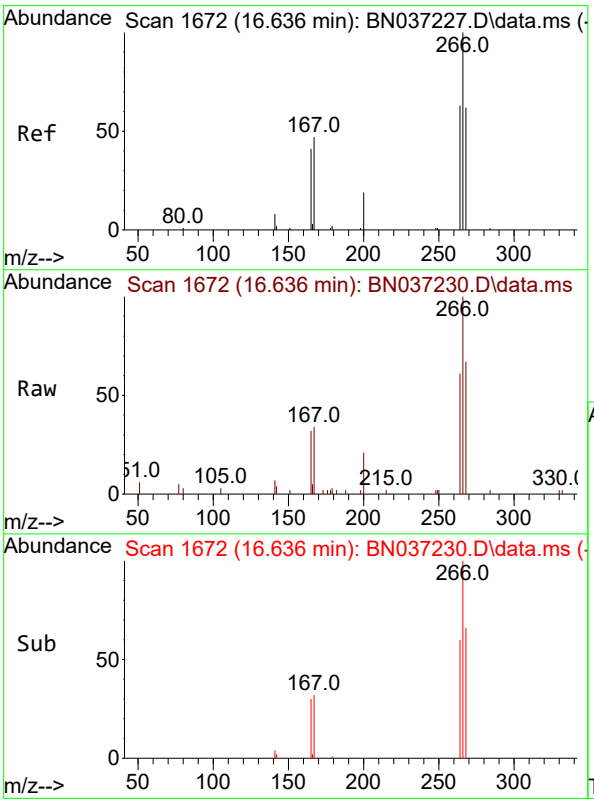
#23
Atrazine
Concen: 3.311 ng
RT: 16.450 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:200 Resp: 6193

Ion	Ratio	Lower	Upper
200	100		
173	27.0	25.1	37.7
215	43.8	43.7	65.5

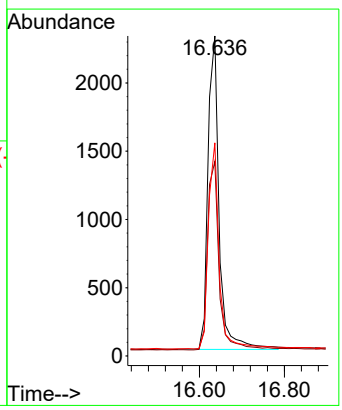


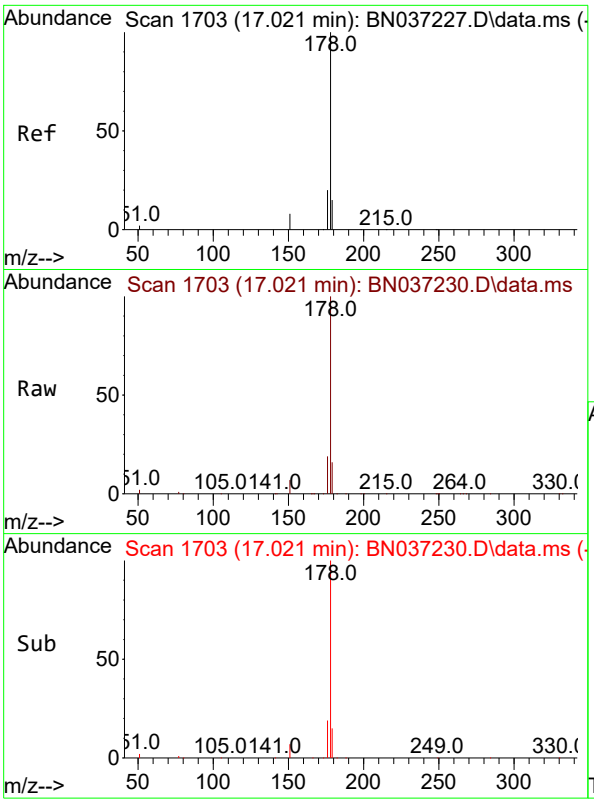


#24
Pentachlorophenol
Concen: 3.508 ng
RT: 16.636 min Scan# 1672
Delta R.T. 0.000 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

Tgt Ion:266 Resp: 4179

Ion	Ratio	Lower	Upper
266	100		
264	62.2	49.2	73.8
268	64.6	53.4	80.2



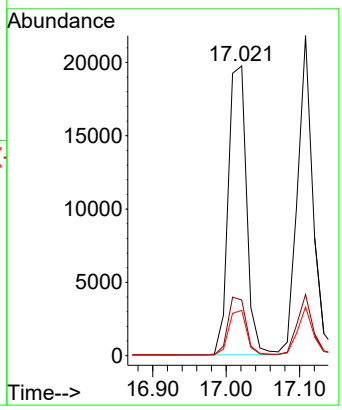


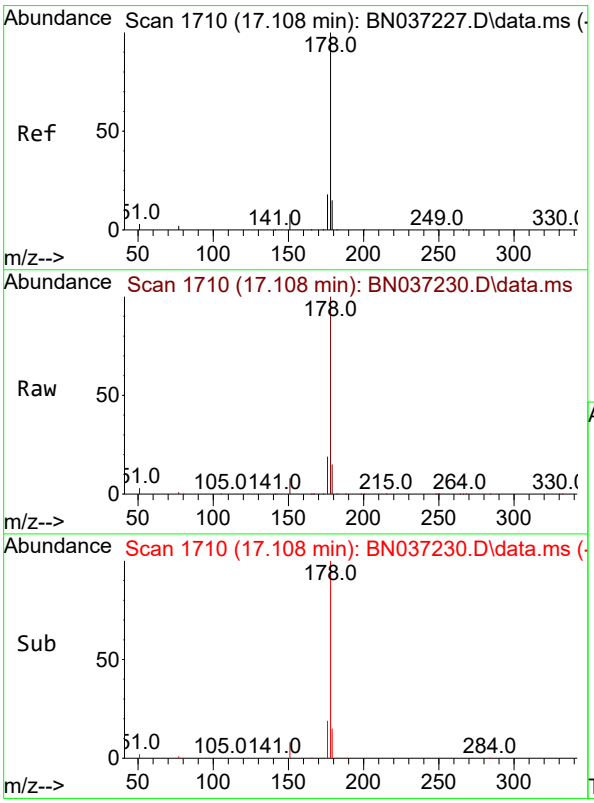
#25
Phenanthrene
Concen: 3.349 ng
RT: 17.021 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:178 Resp: 34176

Ion	Ratio	Lower	Upper
178	100		
176	19.9	16.3	24.5
179	15.1	12.6	18.8

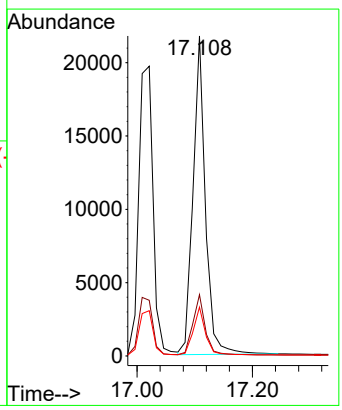


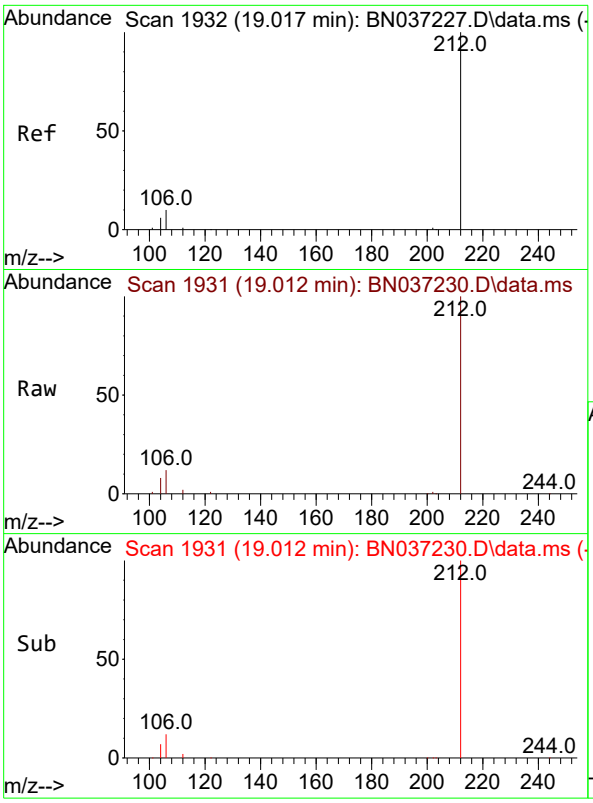


#26
Anthracene
Concen: 3.464 ng
RT: 17.108 min Scan# 1710
Delta R.T. 0.000 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

Tgt Ion:178 Resp: 32366

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.1	22.7
179	15.0	12.4	18.6



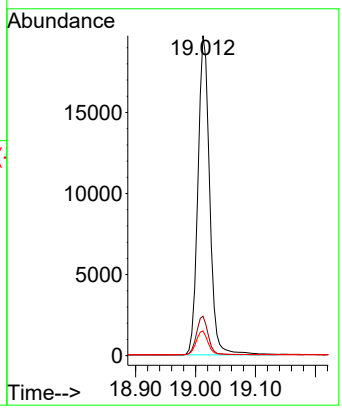


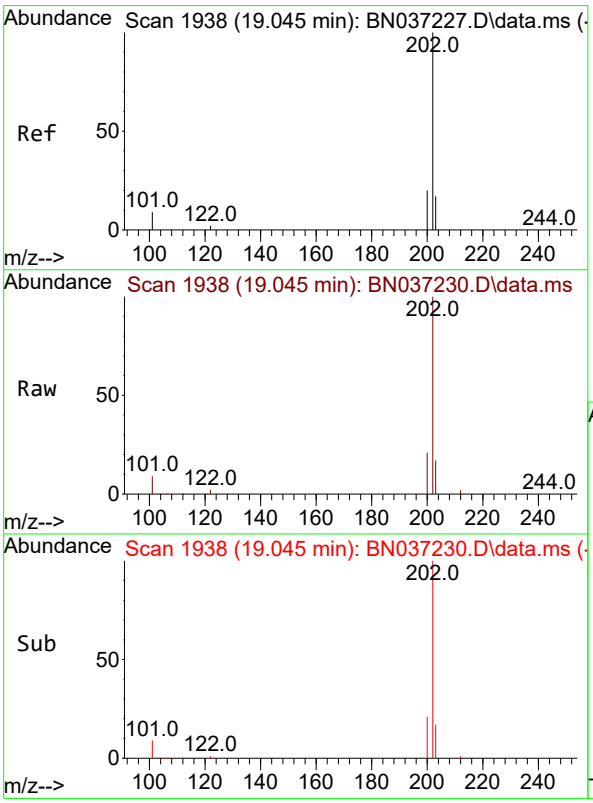
#27
Fluoranthene-d10
Concen: 3.188 ng
RT: 19.012 min Scan# 1
Delta R.T. -0.004 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:212 Resp: 26844

Ion	Ratio	Lower	Upper
212	100		
106	12.1	9.3	13.9
104	7.6	5.7	8.5

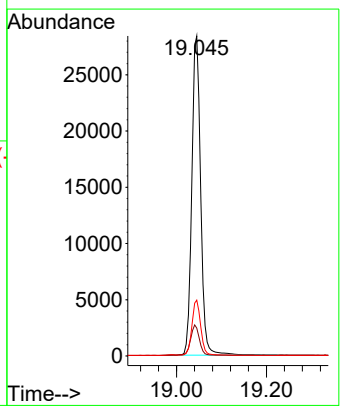


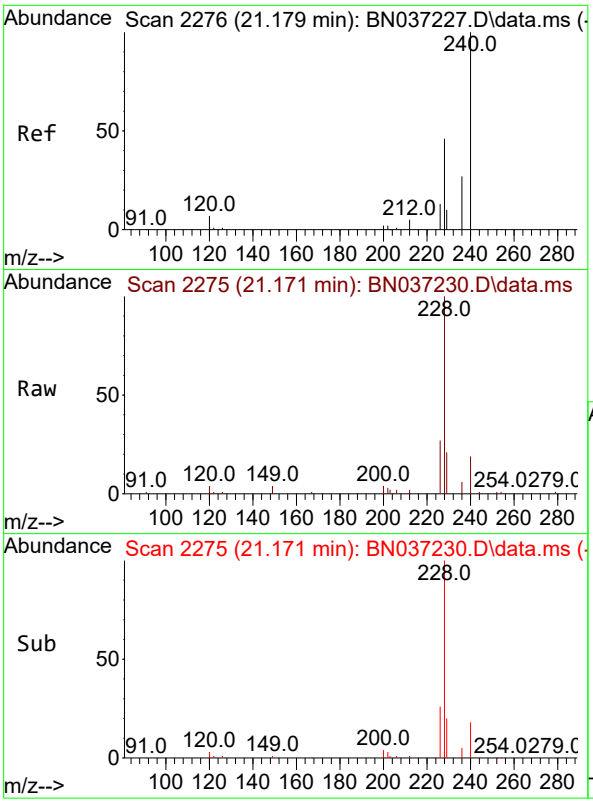


#28
Fluoranthene
Concen: 3.254 ng
RT: 19.045 min Scan# 1938
Delta R.T. 0.000 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

Tgt Ion:202 Resp: 38876

Ion	Ratio	Lower	Upper
202	100		
101	9.7	7.1	10.7
203	17.1	13.0	19.6



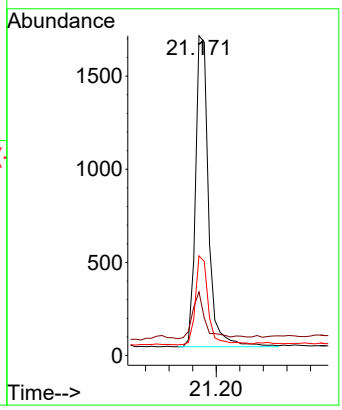


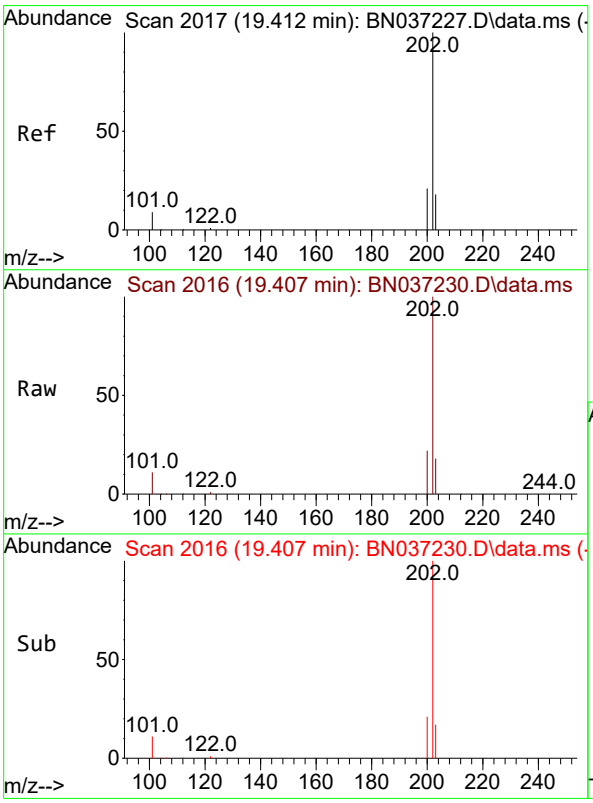
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.171 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:240 Resp: 2562

Ion	Ratio	Lower	Upper
240	100		
120	19.9	11.3	16.9#
236	31.2	24.4	36.6

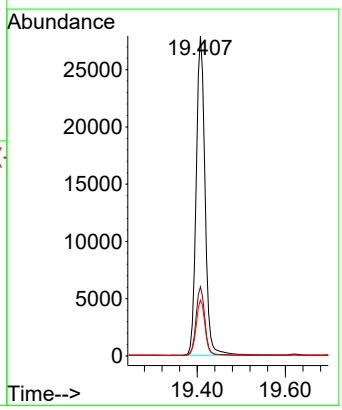


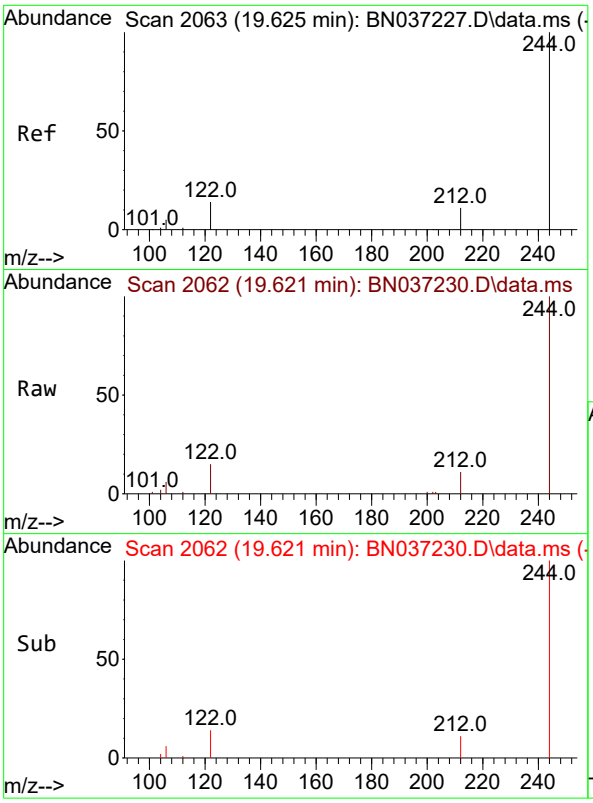


#30
Pyrene
Concen: 3.219 ng
RT: 19.407 min Scan# 2016
Delta R.T. -0.004 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

Tgt Ion:202 Resp: 38772

Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.2	25.8
203	17.7	14.3	21.5



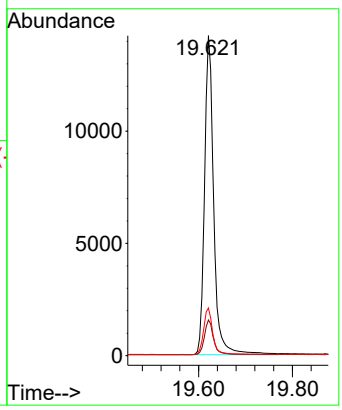


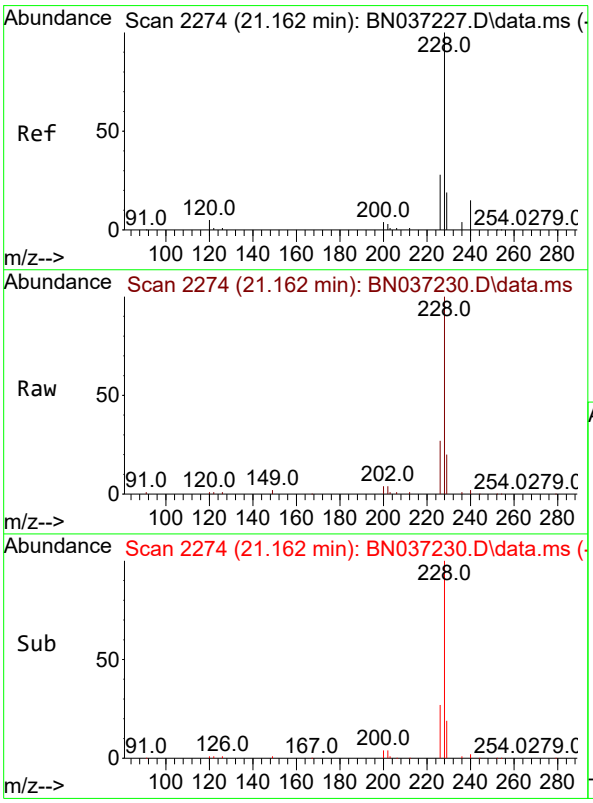
#31
Terphenyl-d14
Concen: 3.323 ng
RT: 19.621 min Scan# 2
Delta R.T. -0.004 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:244 Resp: 19247

Ion	Ratio	Lower	Upper
244	100		
212	11.2	12.2	18.2#
122	14.9	14.3	21.5

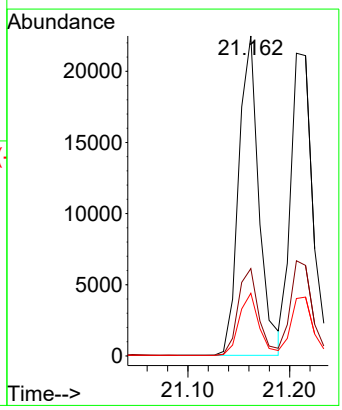


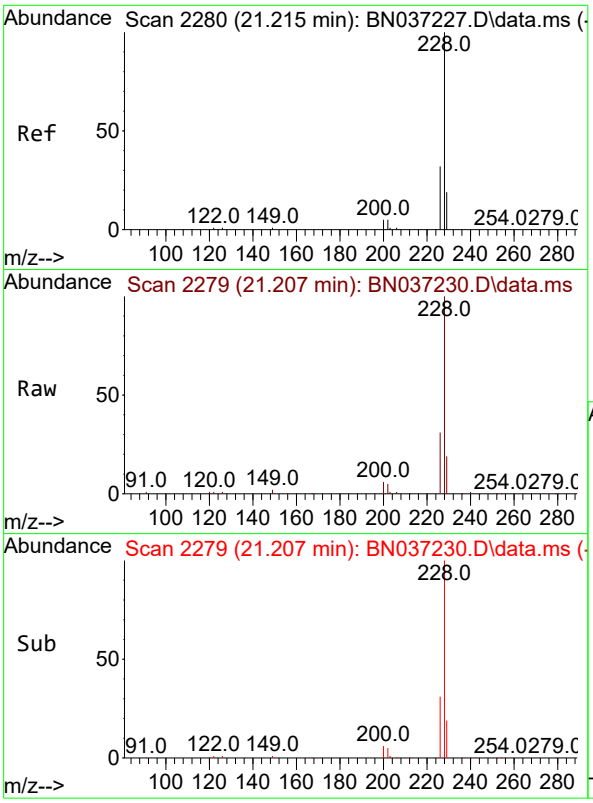


#32
Benzo(a)anthracene
Concen: 3.571 ng
RT: 21.162 min Scan# 2274
Delta R.T. 0.000 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

Tgt Ion:228 Resp: 30893

Ion	Ratio	Lower	Upper
228	100		
226	27.3	23.8	35.8
229	19.6	17.0	25.4



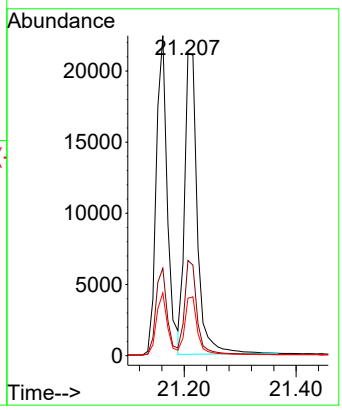


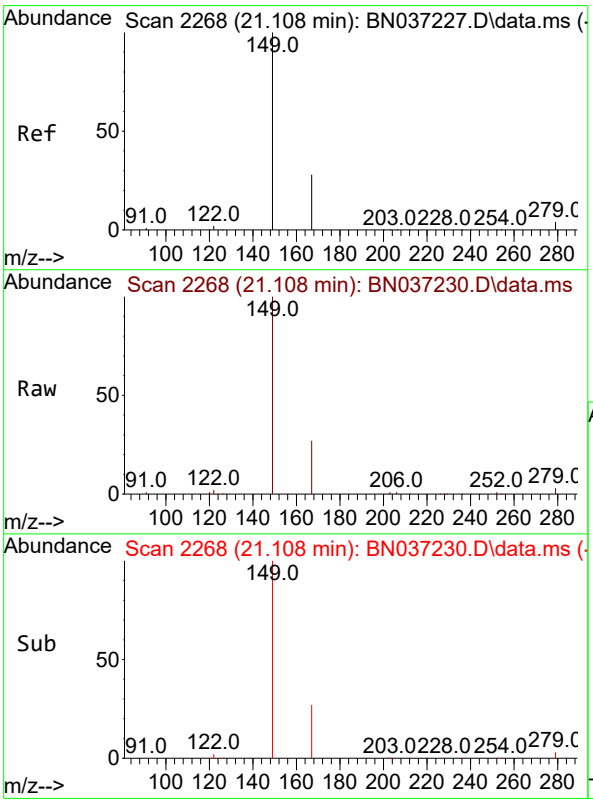
#33
Chrysene
Concen: 3.106 ng
RT: 21.207 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:228 Resp: 33474

Ion	Ratio	Lower	Upper
228	100		
226	31.4	25.8	38.6
229	19.0	17.0	25.4

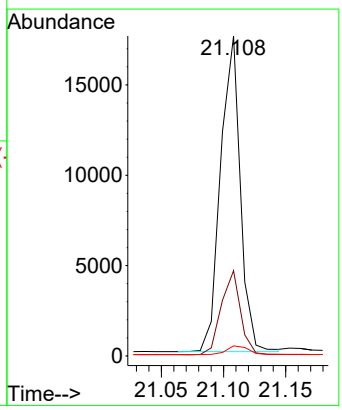


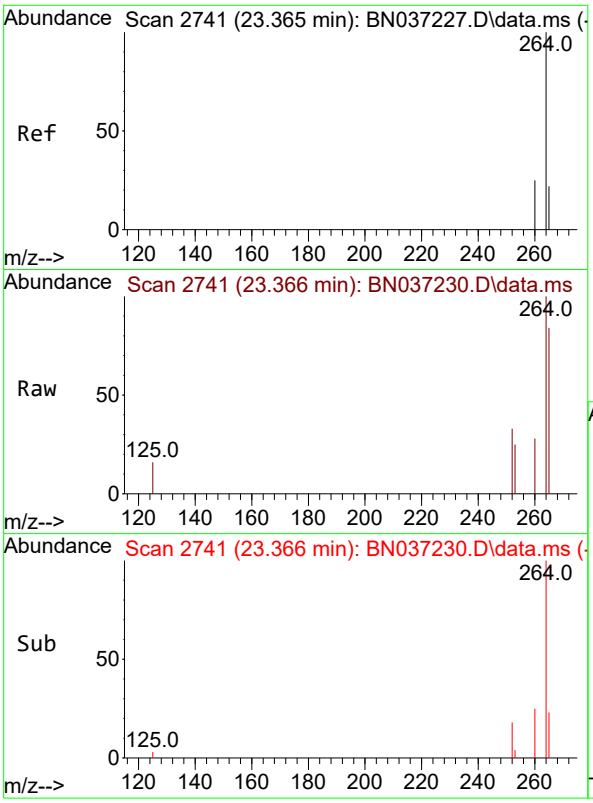


#34
Bis(2-ethylhexyl)phthalate
Concen: 2.996 ng
RT: 21.108 min Scan# 2268
Delta R.T. 0.000 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

Tgt Ion:149 Resp: 19300

Ion	Ratio	Lower	Upper
149	100		
167	26.1	21.3	31.9
279	3.0	3.3	4.9#



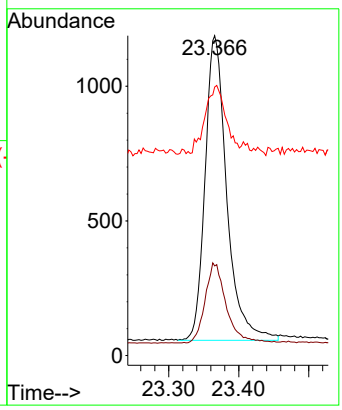


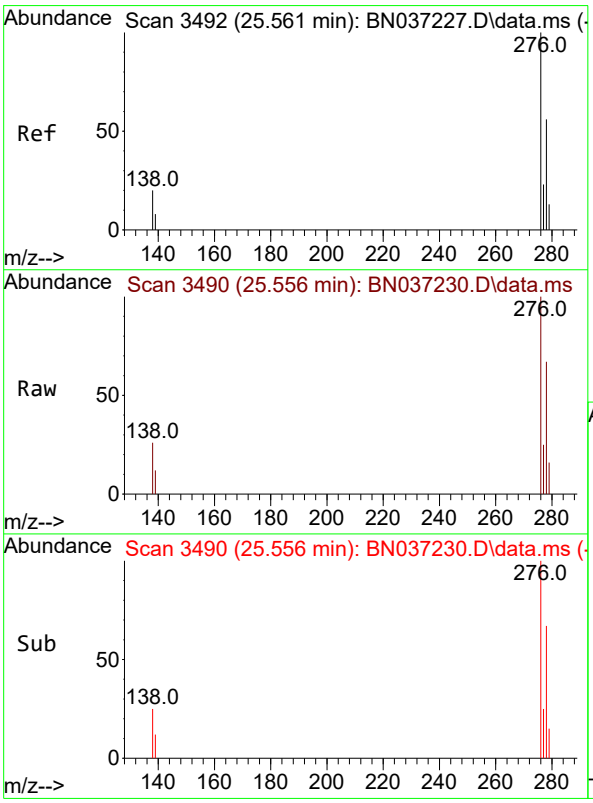
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.366 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:264 Resp: 2434

Ion	Ratio	Lower	Upper
264	100		
260	28.0	22.8	34.2
265	83.9	66.4	99.6

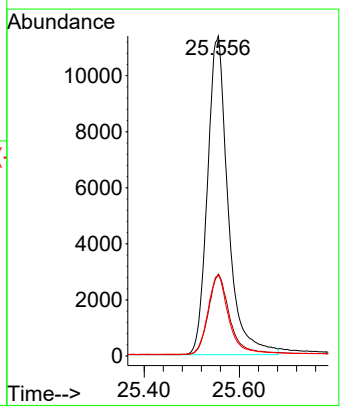


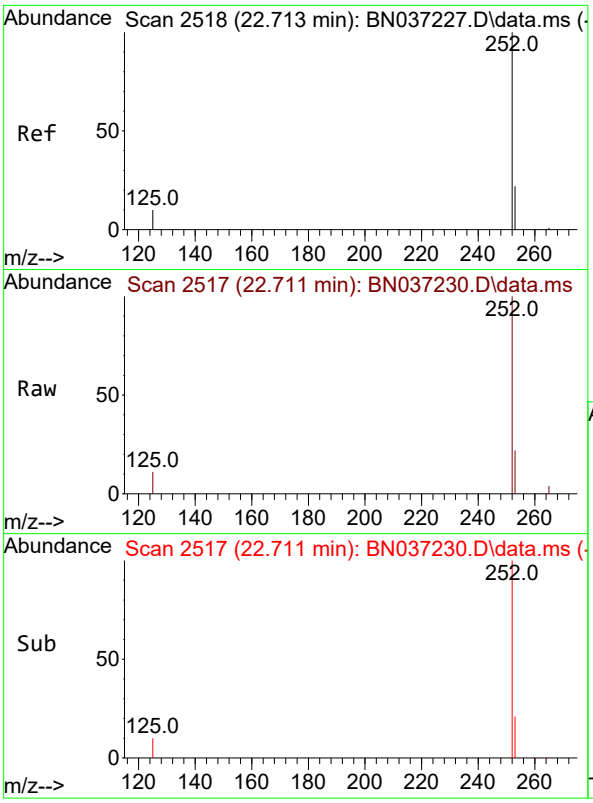


#36
Indeno(1,2,3-cd)pyrene
Concen: 3.486 ng
RT: 25.556 min Scan# 3490
Delta R.T. -0.006 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

Tgt Ion:276 Resp: 34219

Ion	Ratio	Lower	Upper
276	100		
138	25.9	16.8	25.2#
277	25.3	19.5	29.3



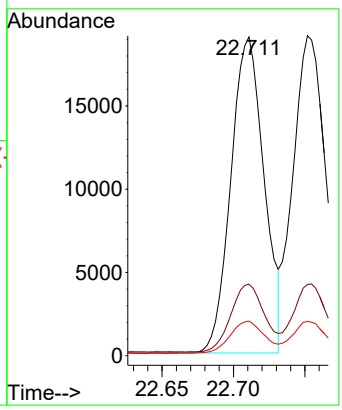


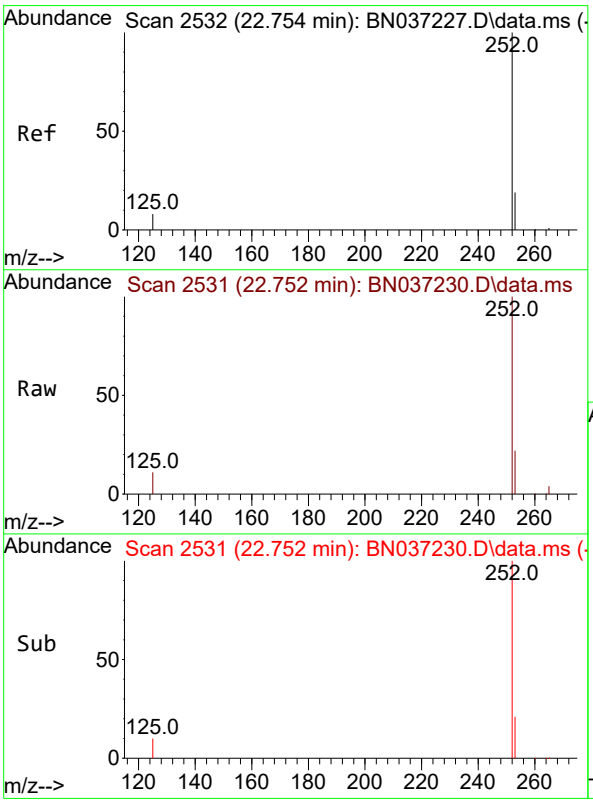
#37
Benzo(b)fluoranthene
Concen: 3.447 ng
RT: 22.711 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:252 Resp: 30687

Ion	Ratio	Lower	Upper
252	100		
253	22.5	24.9	37.3#
125	10.8	12.9	19.3#

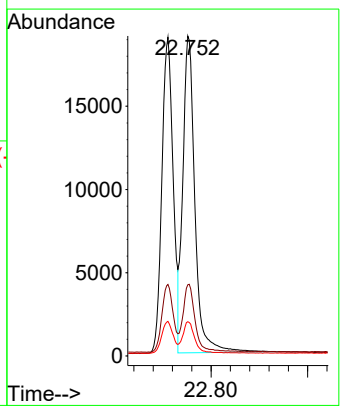


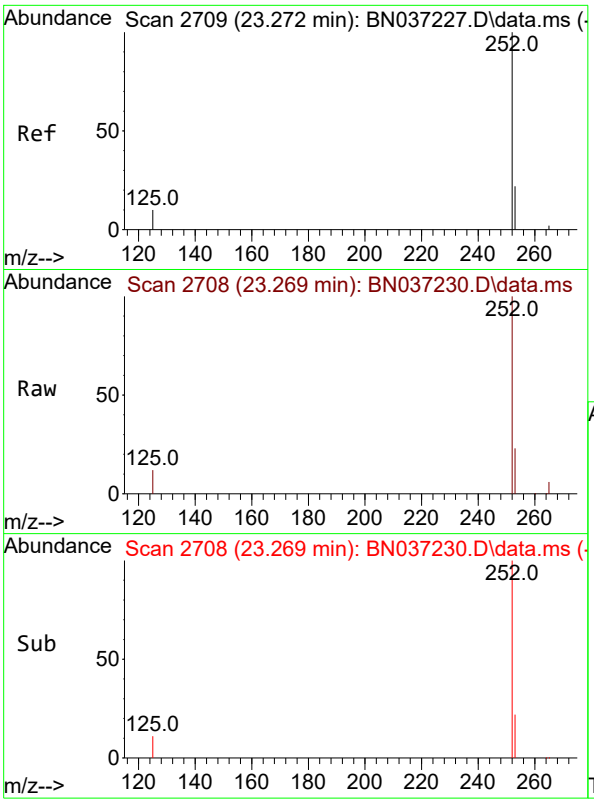


#38
Benzo(k)fluoranthene
Concen: 3.248 ng
RT: 22.752 min Scan# 2531
Delta R.T. -0.003 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

Tgt Ion:252 Resp: 33172

Ion	Ratio	Lower	Upper
252	100		
253	22.2	24.6	37.0#
125	10.7	13.4	20.2#



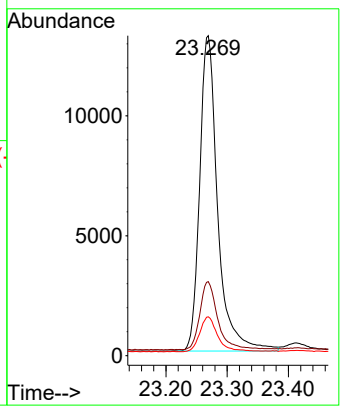


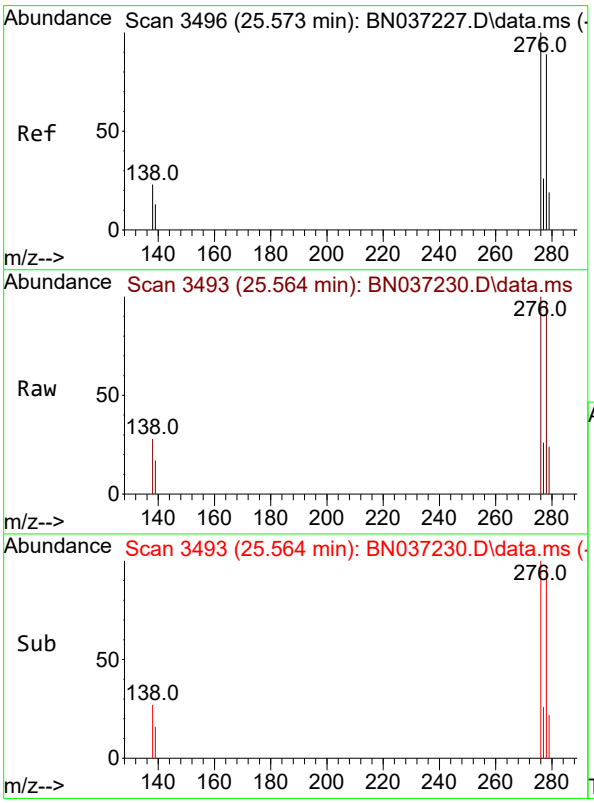
#39
Benzo(a)pyrene
Concen: 3.361 ng
RT: 23.269 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:252 Resp: 26918

Ion	Ratio	Lower	Upper
252	100		
253	23.2	29.4	44.2#
125	12.2	16.2	24.2#

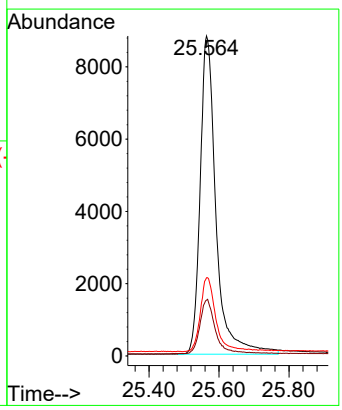


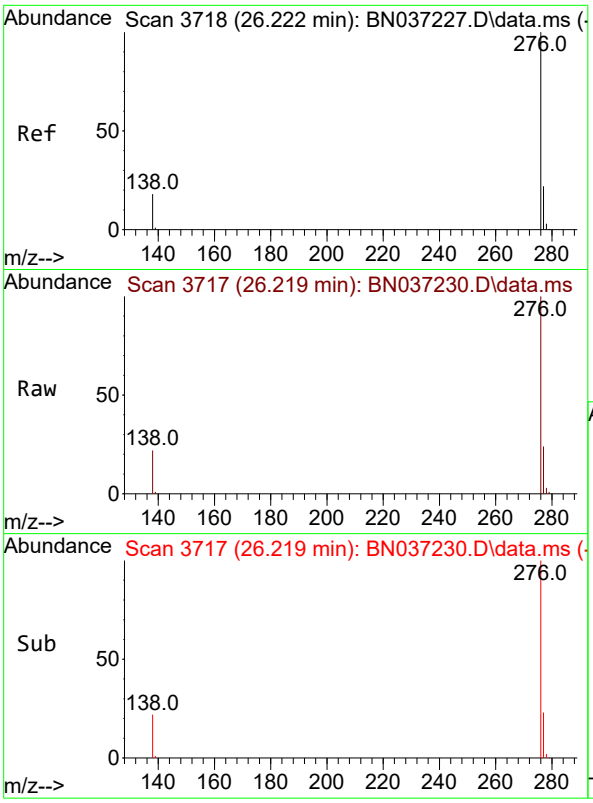


#40
Dibenzo(a,h)anthracene
Concen: 3.751 ng
RT: 25.564 min Scan# 3493
Delta R.T. -0.009 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

Tgt Ion:278 Resp: 27744

Ion	Ratio	Lower	Upper
278	100		
139	17.4	17.8	26.6#
279	24.5	31.3	46.9#



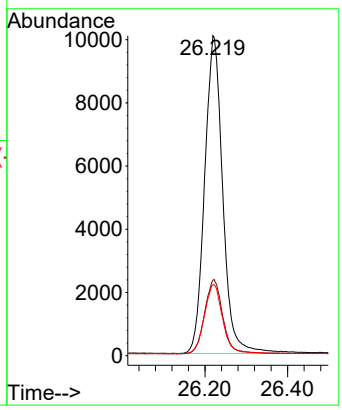


#41
Benzo(g,h,i)perylene
Concen: 3.350 ng
RT: 26.219 min Scan# 3
Delta R.T. -0.003 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:276 Resp: 30489

Ion	Ratio	Lower	Upper
276	100		
277	23.6	22.0	33.0
138	22.2	18.4	27.6



Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037231.D
Acq On : 13 Jun 2025 17:11
Operator : RC/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Quant Time: Jun 13 18:38:52 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:34:15 2025
Response via : Initial Calibration

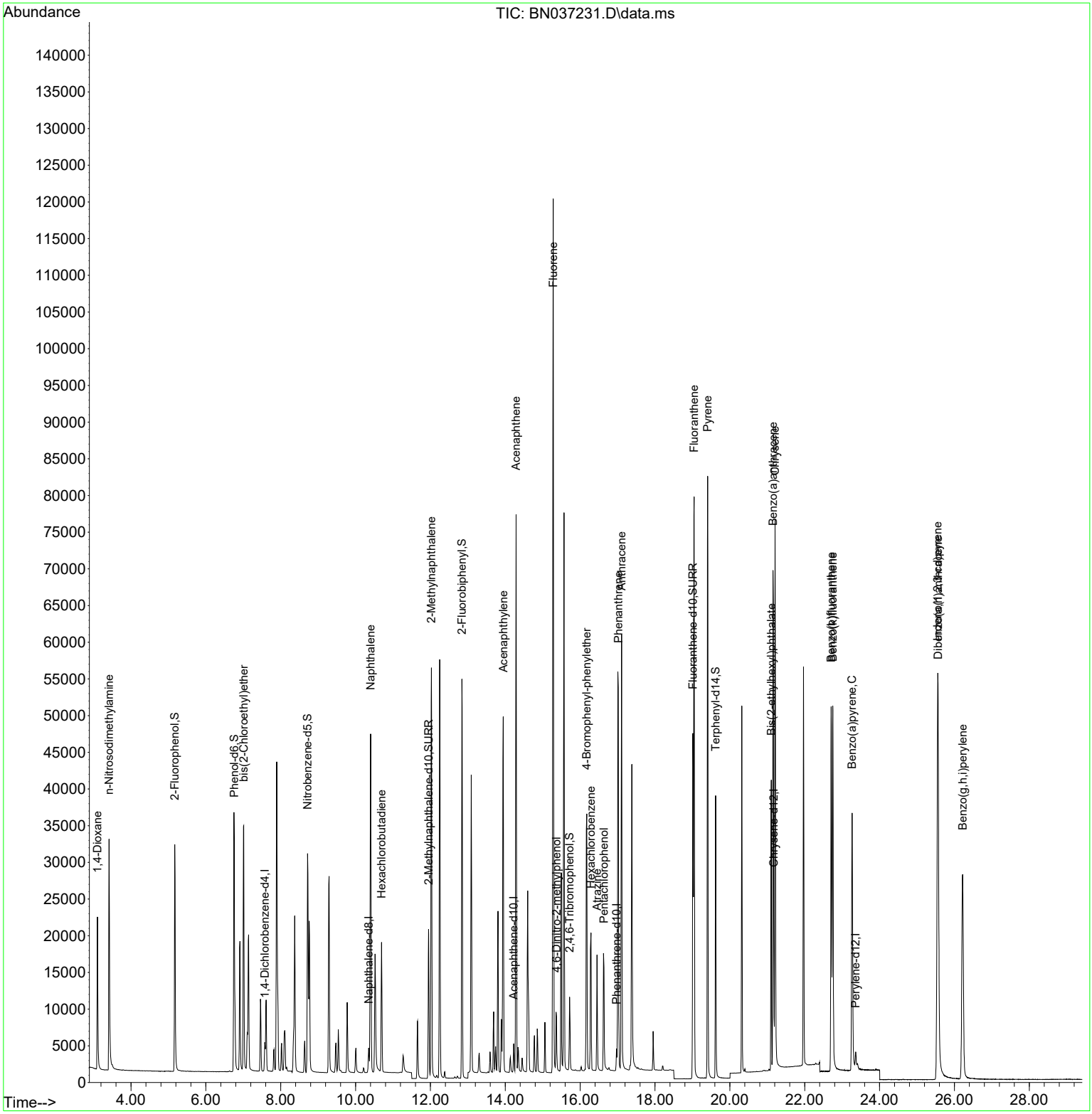
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.575	152	1719	0.400	ng		0.00
7) Naphthalene-d8	10.351	136	3927	0.400	ng		#-0.01
13) Acenaphthene-d10	14.224	164	2088	0.400	ng		0.00
19) Phenanthrene-d10	16.971	188	3744	0.400	ng		0.00
29) Chrysene-d12	21.171	240	3121	0.400	ng		0.00
35) Perylene-d12	23.360	264	2895	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.170	112	20890	4.948	ng		0.00
5) Phenol-d6	6.759	99	25211	5.666	ng		0.00
8) Nitrobenzene-d5	8.717	82	22243	5.731	ng		-0.01
11) 2-Methylnaphthalene-d10	11.950	152	27140	5.150	ng		0.00
14) 2,4,6-Tribromophenol	15.718	330	4635	5.344	ng		-0.01
15) 2-Fluorobiphenyl	12.843	172	44772	5.103	ng		0.00
27) Fluoranthene-d10	19.012	212	50205	5.125	ng		0.00
31) Terphenyl-d14	19.621	244	36062	5.111	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.104	88	10450	4.431	ng		92
3) n-Nitrosodimethylamine	3.415	42	24357	4.533	ng		94
6) bis(2-Chloroethyl)ether	7.012	93	22354	5.609	ng		94
9) Naphthalene	10.404	128	56880	5.002	ng		94
10) Hexachlorobutadiene	10.692	225	12686	4.586	ng	#	98
12) 2-Methylnaphthalene	12.026	142	36587	5.292	ng		98
16) Acenaphthylene	13.946	152	52739	5.154	ng		99
17) Acenaphthene	14.288	154	33323	5.045	ng		97
18) Fluorene	15.282	166	43051	5.075	ng		100
20) 4,6-Dinitro-2-methylph...	15.368	198	5424	4.992	ng	#	36
21) 4-Bromophenyl-phenylether	16.177	248	12785	5.240	ng	#	81
22) Hexachlorobenzene	16.289	284	13054	4.616	ng		98
23) Atrazine	16.450	200	11399	5.239	ng	#	87
24) Pentachlorophenol	16.636	266	8014	5.782	ng		97
25) Phenanthrene	17.021	178	62123	5.232	ng		99
26) Anthracene	17.108	178	59009	5.429	ng		99
28) Fluoranthene	19.045	202	71952	5.177	ng		98
30) Pyrene	19.407	202	72342	4.930	ng		99
32) Benzo(a)anthracene	21.153	228	58498	5.551	ng		97
33) Chrysene	21.206	228	63057	4.803	ng		98
34) Bis(2-ethylhexyl)phtha...	21.108	149	37466	4.774	ng	#	99
36) Indeno(1,2,3-cd)pyrene	25.552	276	65610	5.620	ng	#	94
37) Benzo(b)fluoranthene	22.708	252	58631	5.536	ng	#	85
38) Benzo(k)fluoranthene	22.749	252	62537	5.148	ng	#	85
39) Benzo(a)pyrene	23.266	252	51138	5.368	ng	#	78
40) Dibenzo(a,h)anthracene	25.564	278	51648	5.871	ng	#	81
41) Benzo(g,h,i)perylene	26.219	276	56339	5.204	ng		96

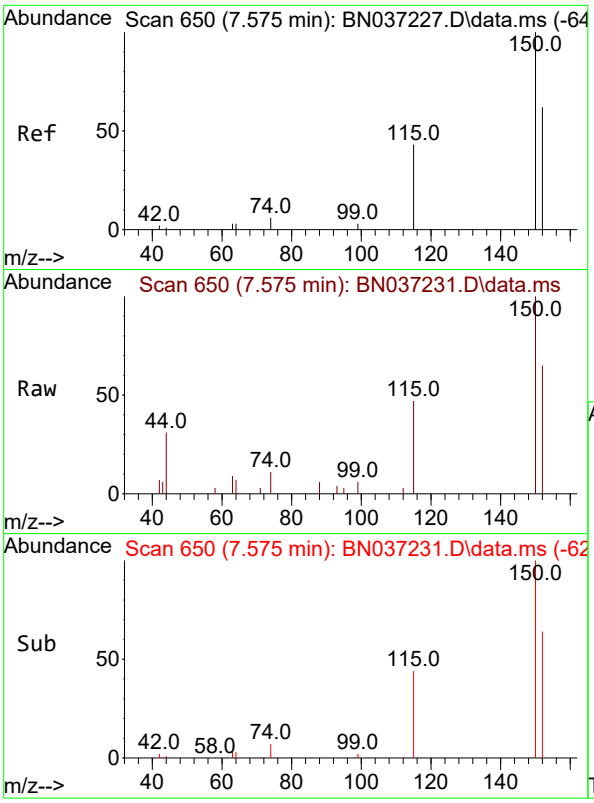
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037231.D
Acq On : 13 Jun 2025 17:11
Operator : RC/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Quant Time: Jun 13 18:38:52 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:34:15 2025
Response via : Initial Calibration



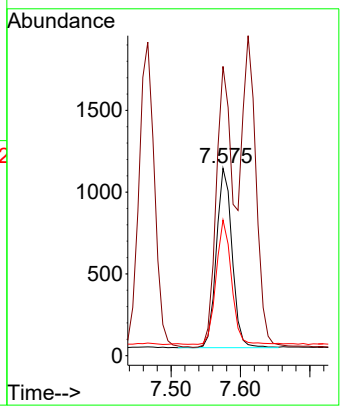


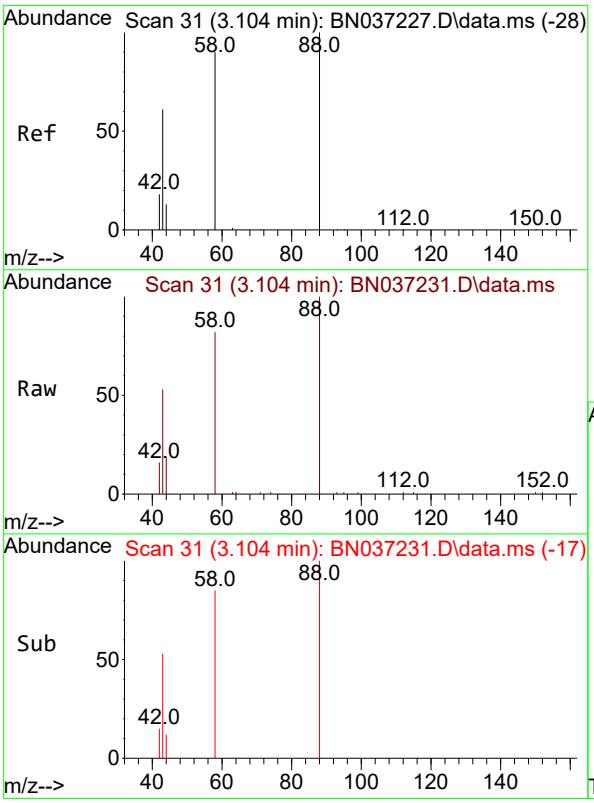
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:152 Resp: 1719

Ion	Ratio	Lower	Upper
152	100		
150	154.4	125.2	187.8
115	72.4	58.4	87.6

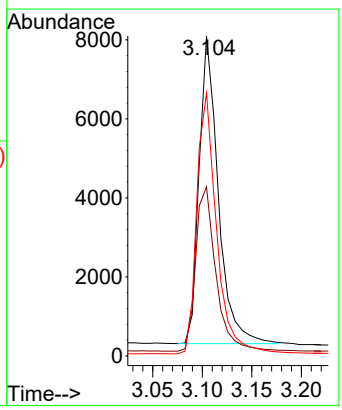


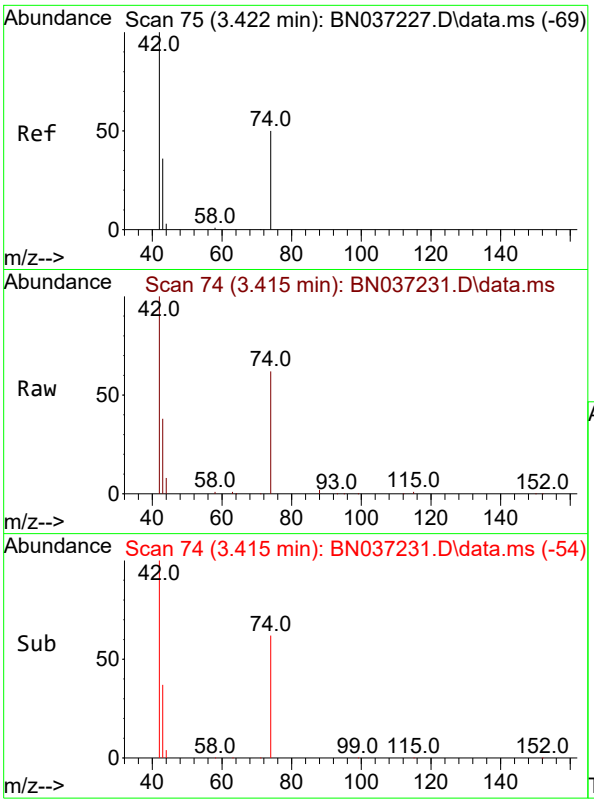


#2
1,4-Dioxane
Concen: 4.431 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

Tgt Ion: 88 Resp: 10450

Ion	Ratio	Lower	Upper
88	100		
43	56.4	52.6	79.0
58	87.7	73.5	110.3



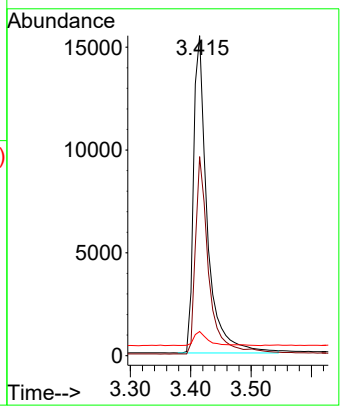


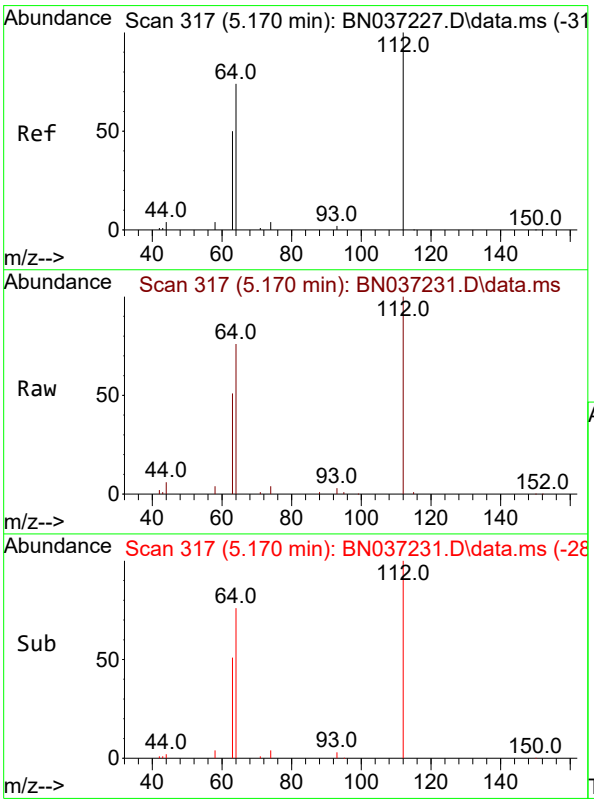
#3
n-Nitrosodimethylamine
Concen: 4.533 ng
RT: 3.415 min Scan# 7
Delta R.T. -0.007 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion: 42 Resp: 24357

Ion	Ratio	Lower	Upper
42	100		
74	60.7	44.6	66.8
44	4.7	3.5	5.3

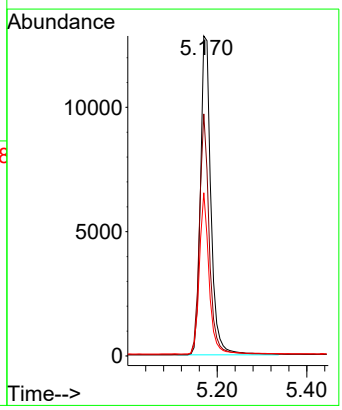


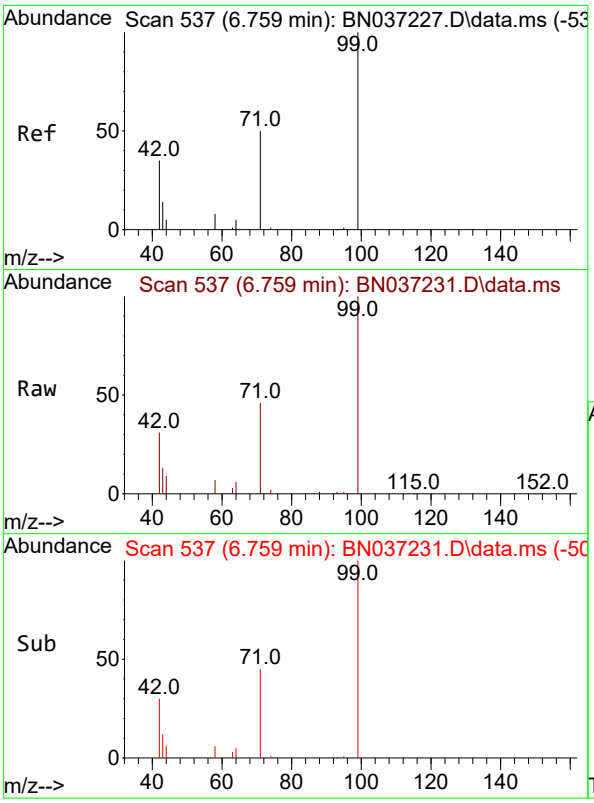


#4
2-Fluorophenol
Concen: 4.948 ng
RT: 5.170 min Scan# 317
Delta R.T. 0.000 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

Tgt Ion:112 Resp: 20890

Ion	Ratio	Lower	Upper
112	100		
64	70.8	57.2	85.8
63	47.0	39.8	59.6



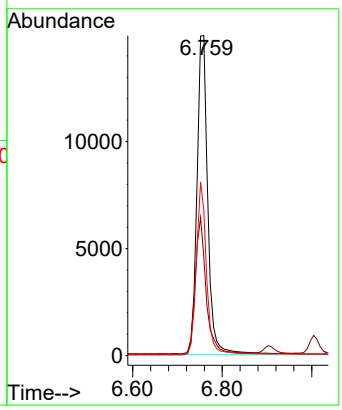


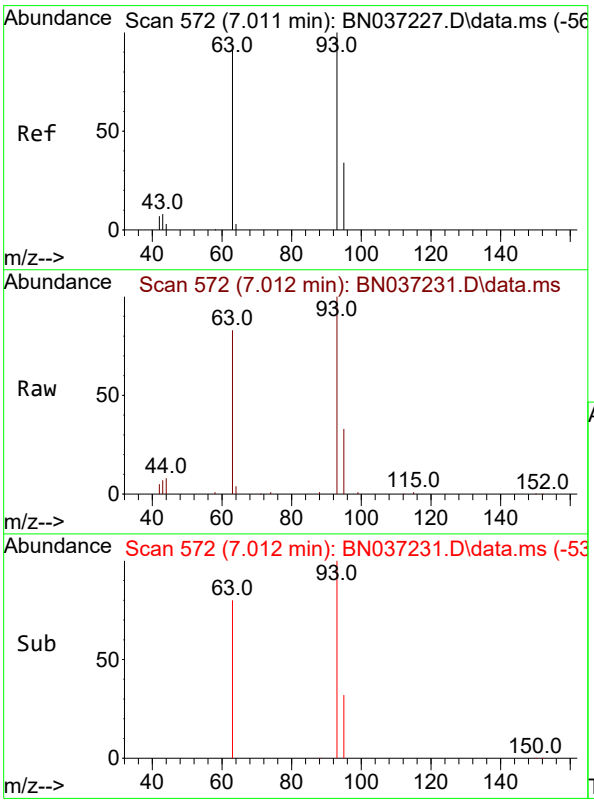
#5
Phenol-d6
Concen: 5.666 ng
RT: 6.759 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion: 99 Resp: 25211

Ion	Ratio	Lower	Upper
99	100		
42	42.3	36.2	54.4
71	50.9	42.4	63.6

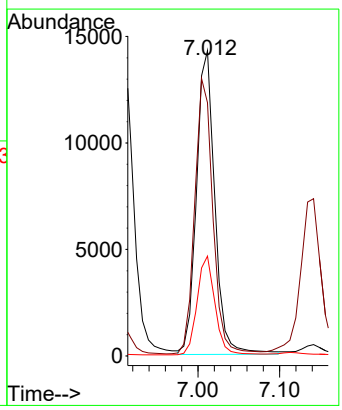


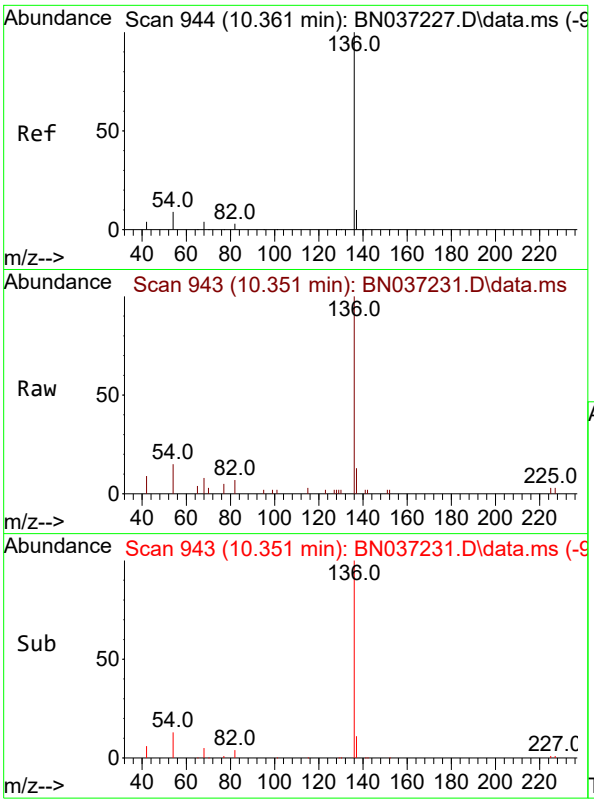


#6
bis(2-Chloroethyl)ether
Concen: 5.609 ng
RT: 7.012 min Scan# 572
Delta R.T. 0.000 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

Tgt Ion: 93 Resp: 22354

Ion	Ratio	Lower	Upper
93	100		
63	88.9	75.2	112.8
95	31.6	28.3	42.5



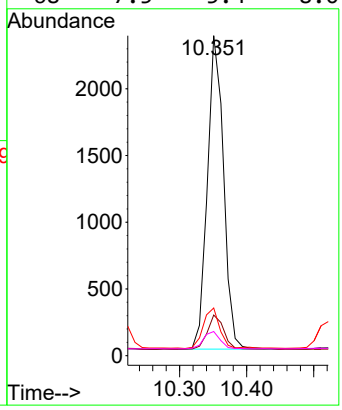


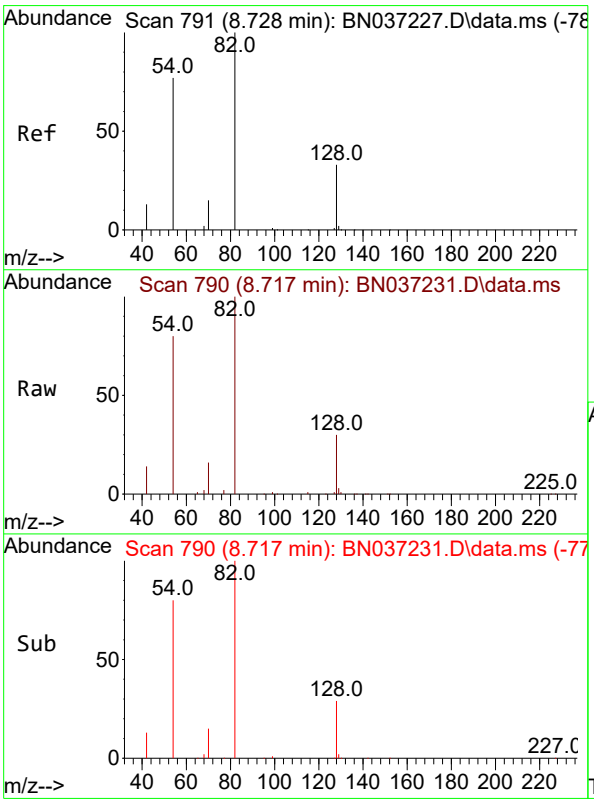
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:136 Resp: 3927

Ion	Ratio	Lower	Upper
136	100		
137	12.7	10.6	15.8
54	14.9	9.2	13.8#
68	7.5	5.4	8.0

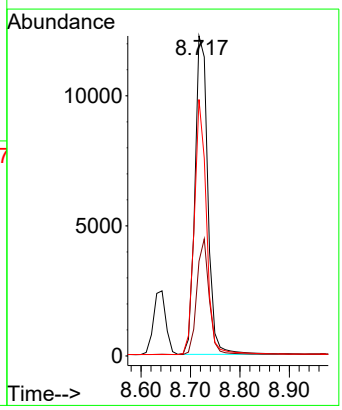


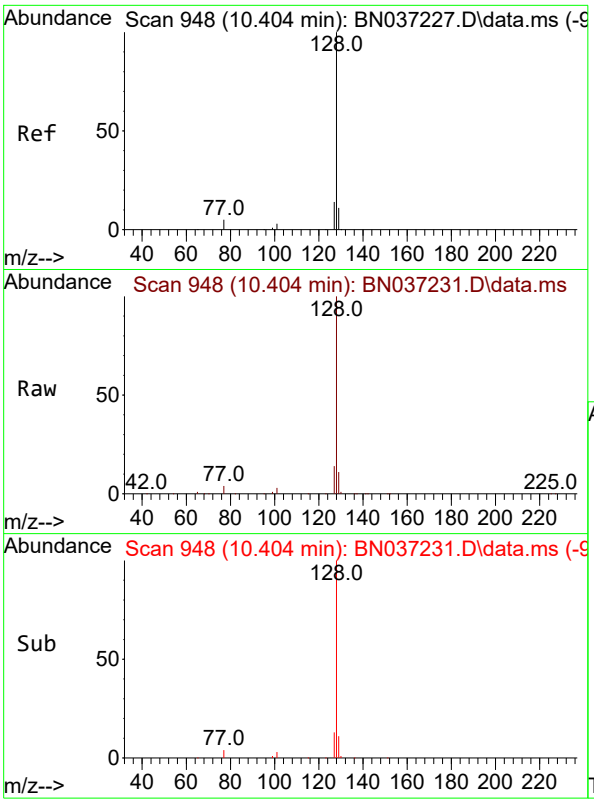


#8
Nitrobenzene-d5
Concen: 5.731 ng
RT: 8.717 min Scan# 790
Delta R.T. -0.011 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

Tgt Ion: 82 Resp: 22243

Ion	Ratio	Lower	Upper
82	100		
128	29.6	31.2	46.8#
54	80.1	63.3	94.9



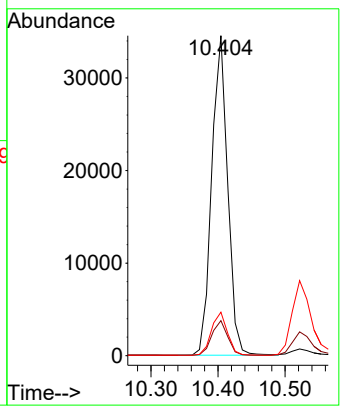


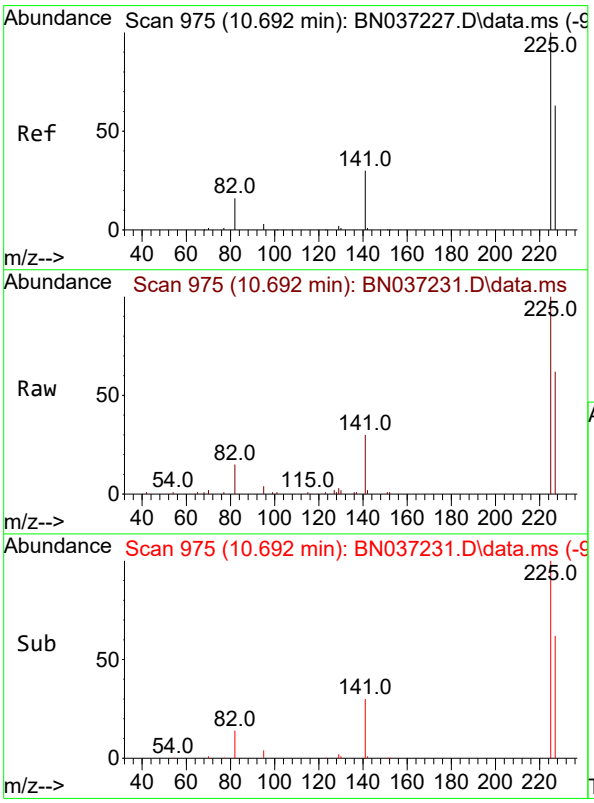
#9
Naphthalene
Concen: 5.002 ng
RT: 10.404 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:128 Resp: 56880

Ion	Ratio	Lower	Upper
128	100		
129	10.9	10.7	16.1
127	13.6	12.6	19.0

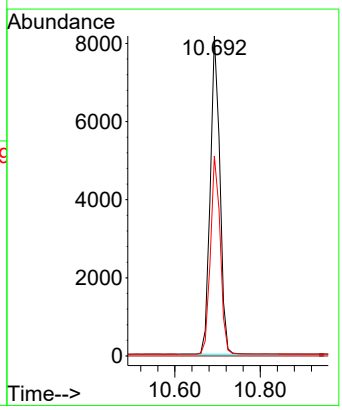


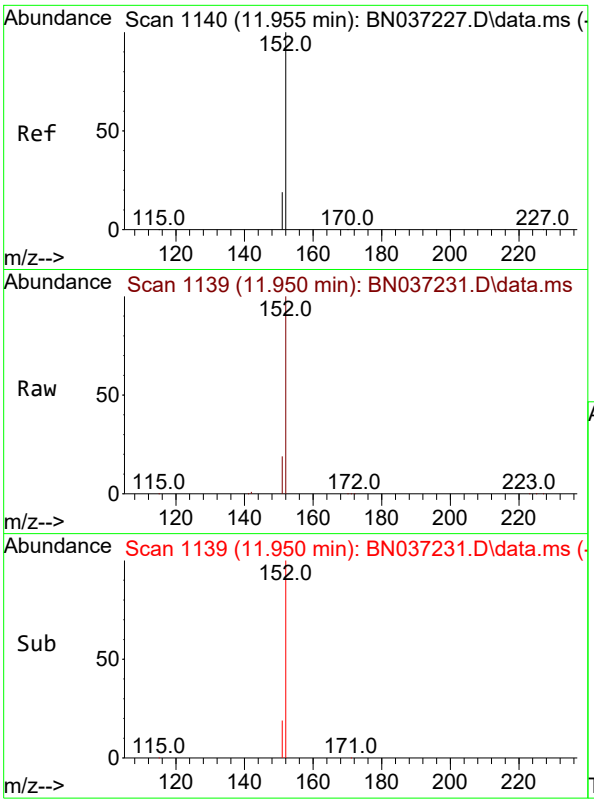


#10
Hexachlorobutadiene
Concen: 4.586 ng
RT: 10.692 min Scan# 975
Delta R.T. 0.000 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

Tgt Ion:225 Resp: 12686

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.2	49.2	73.8



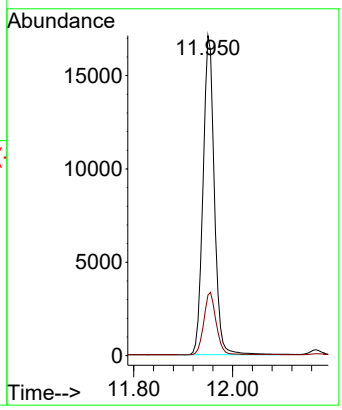


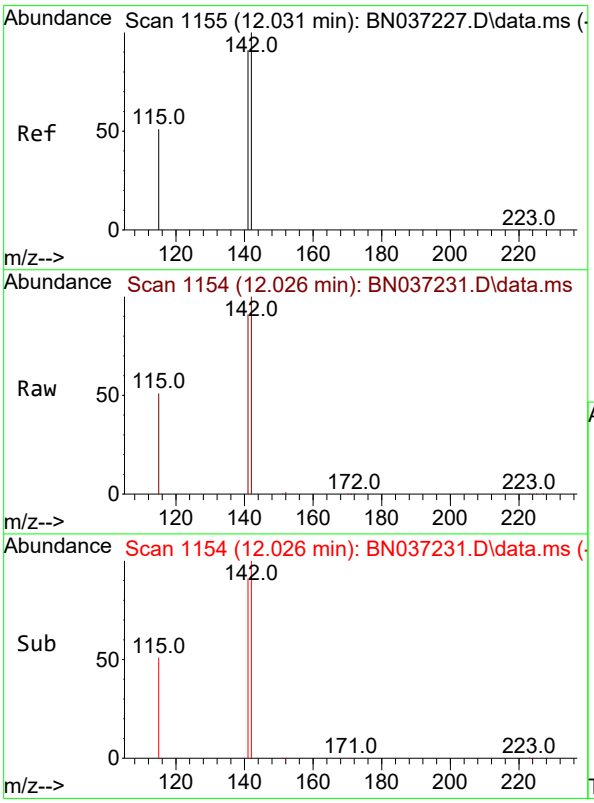
#11
2-Methylnaphthalene-d10
Concen: 5.150 ng
RT: 11.950 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:152 Resp: 27140

Ion	Ratio	Lower	Upper
152	100		
151	21.4	17.9	26.9

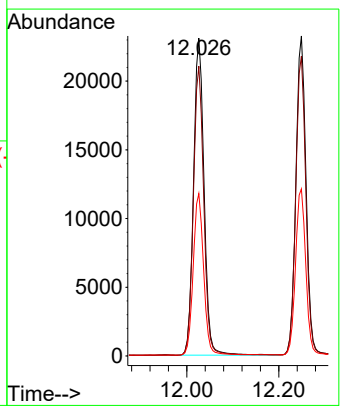


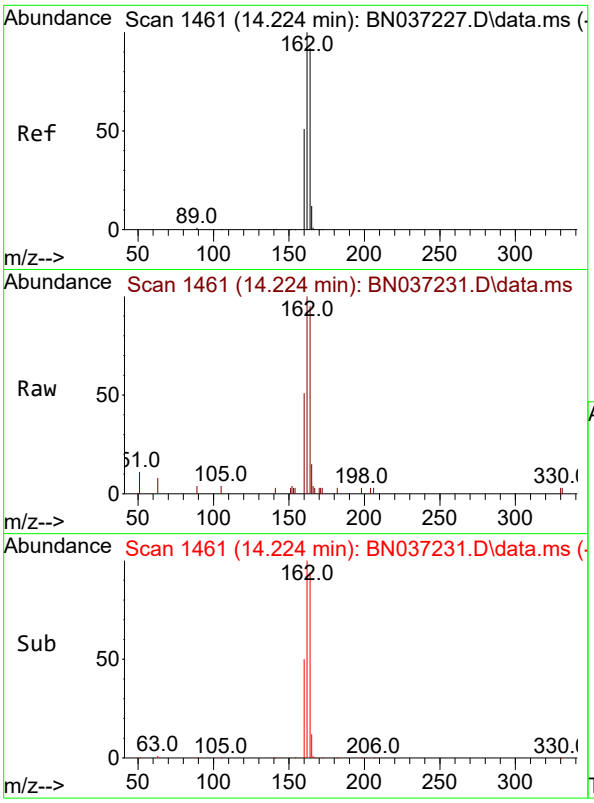


#12
2-Methylnaphthalene
Concen: 5.292 ng
RT: 12.026 min Scan# 1154
Delta R.T. -0.005 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

Tgt Ion:142 Resp: 36587

Ion	Ratio	Lower	Upper
142	100		
141	91.2	73.0	109.6
115	51.1	43.3	64.9



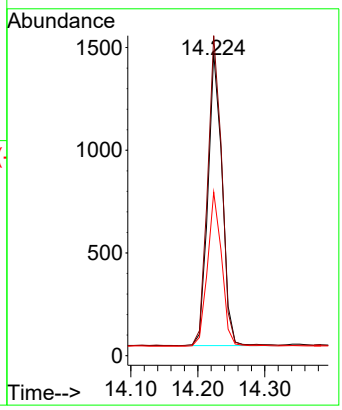


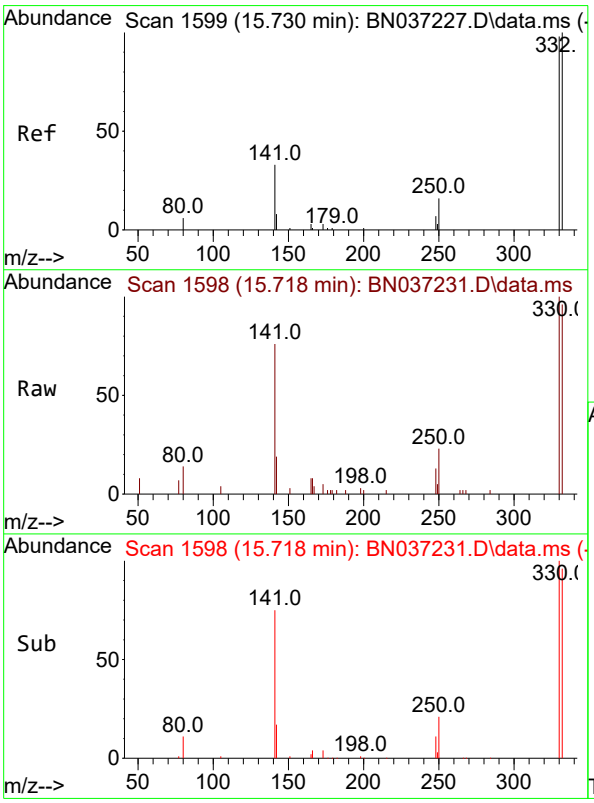
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:164 Resp: 2088

Ion	Ratio	Lower	Upper
164	100		
162	105.6	86.7	130.1
160	54.0	45.8	68.6

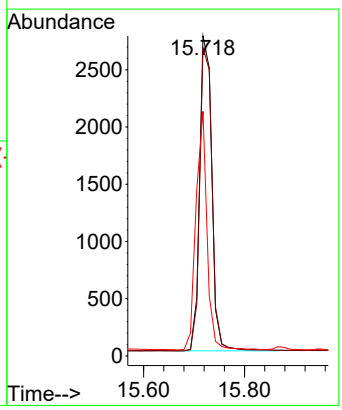


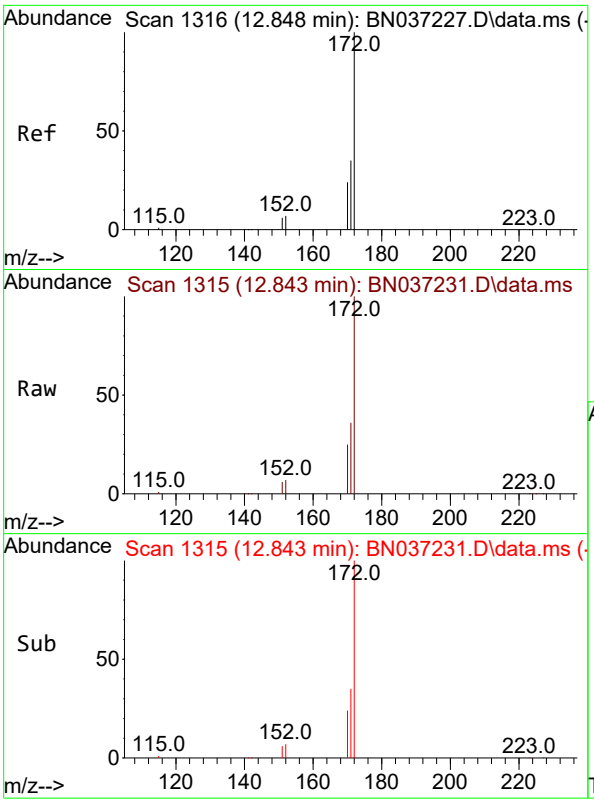


#14
2,4,6-Tribromophenol
Concen: 5.344 ng
RT: 15.718 min Scan# 1598
Delta R.T. -0.012 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

Tgt Ion:330 Resp: 4635

Ion	Ratio	Lower	Upper
330	100		
332	97.5	74.9	112.3
141	68.7	45.1	67.7#



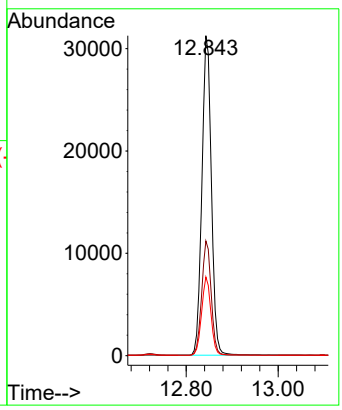


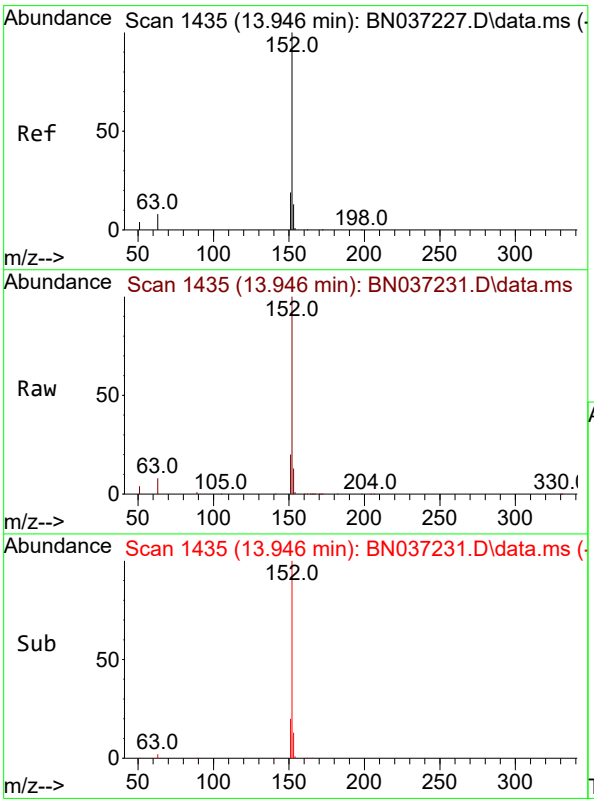
#15
2-Fluorobiphenyl
Concen: 5.103 ng
RT: 12.843 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:172 Resp: 44772

Ion	Ratio	Lower	Upper
172	100		
171	35.9	29.8	44.8
170	24.6	21.1	31.7

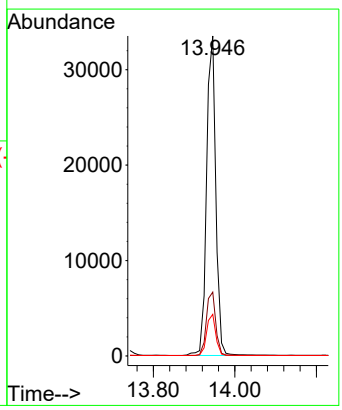


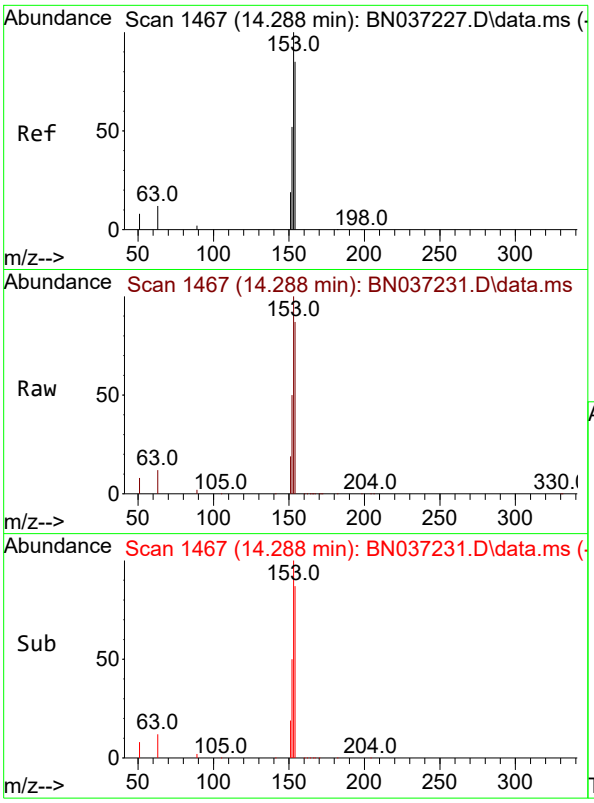


#16
Acenaphthylene
Concen: 5.154 ng
RT: 13.946 min Scan# 1435
Delta R.T. 0.000 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

Tgt Ion:152 Resp: 52739

Ion	Ratio	Lower	Upper
152	100		
151	20.1	15.7	23.5
153	12.9	10.7	16.1



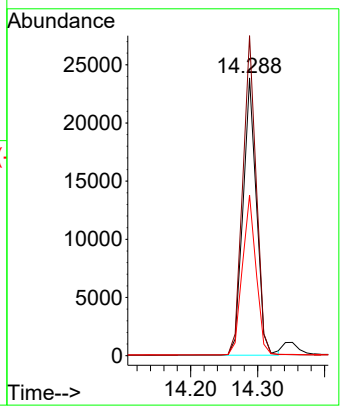


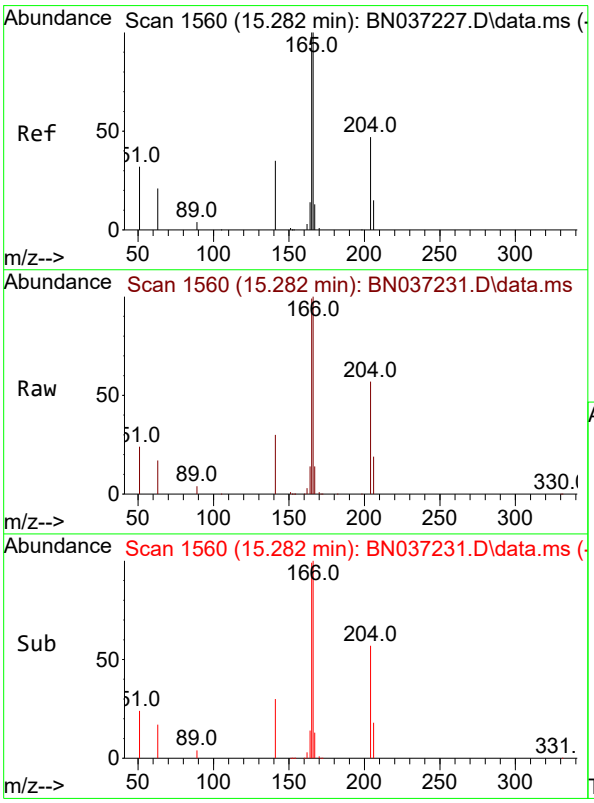
#17
Acenaphthene
Concen: 5.045 ng
RT: 14.288 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:154 Resp: 33323

Ion	Ratio	Lower	Upper
154	100		
153	115.1	94.6	141.8
152	58.6	49.6	74.4

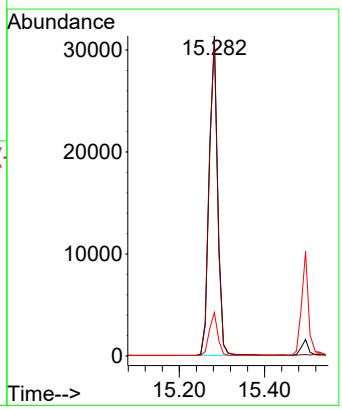


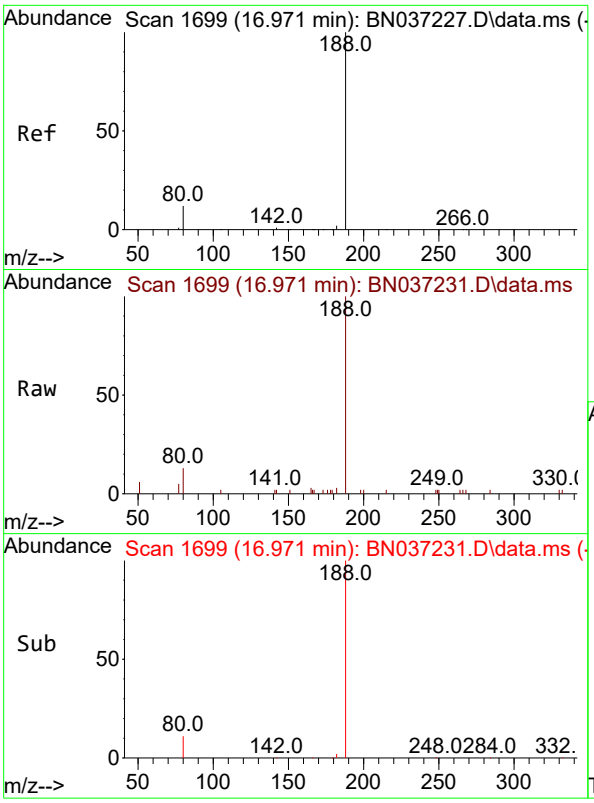


#18
Fluorene
Concen: 5.075 ng
RT: 15.282 min Scan# 1560
Delta R.T. 0.000 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

Tgt Ion:166 Resp: 43051

Ion	Ratio	Lower	Upper
166	100		
165	99.9	79.8	119.6
167	13.3	10.8	16.2



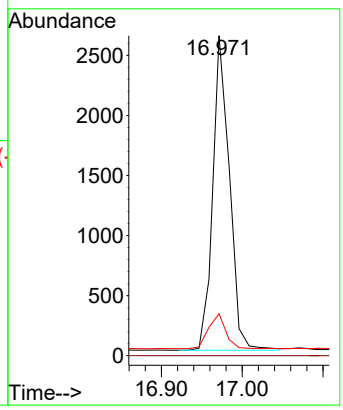


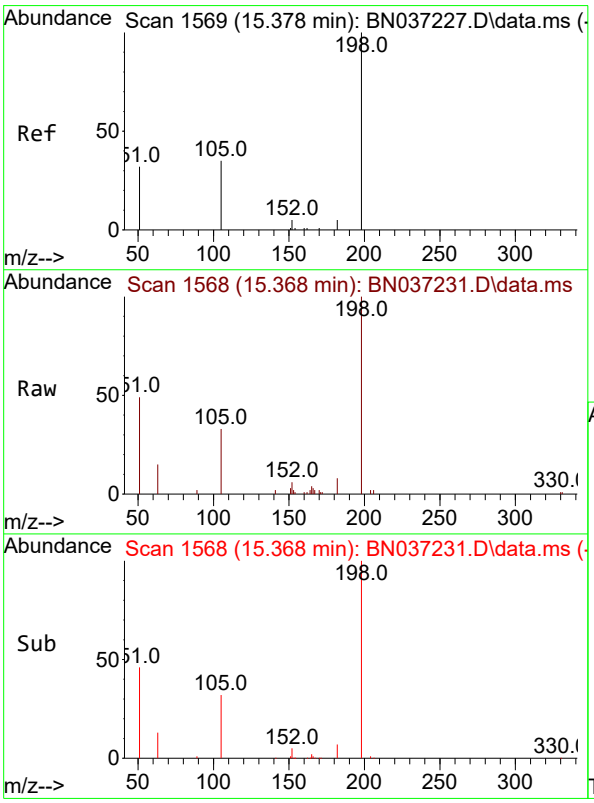
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:188 Resp: 3744

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	13.1	12.2	18.4

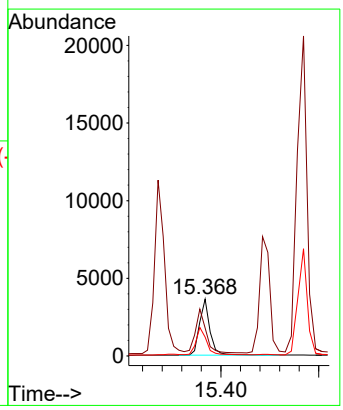


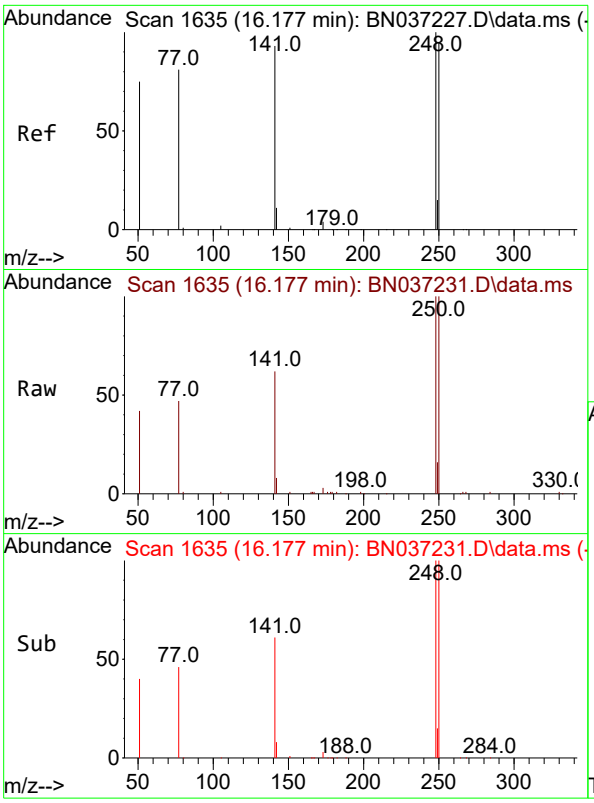


#20
4,6-Dinitro-2-methylphenol
Concen: 4.992 ng
RT: 15.368 min Scan# 1568
Delta R.T. -0.010 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

Tgt Ion:198 Resp: 5424

Ion	Ratio	Lower	Upper
198	100		
51	49.4	111.2	166.8#
105	33.2	54.0	81.0#



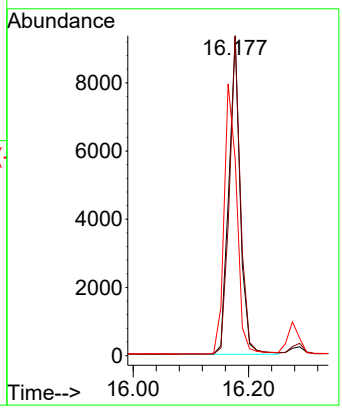


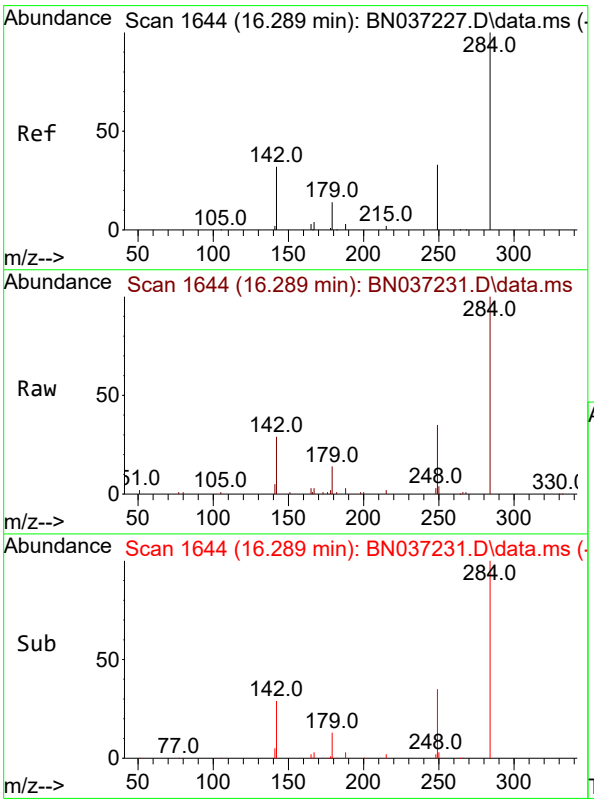
#21
4-Bromophenyl-phenylether
Concen: 5.240 ng
RT: 16.177 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:248 Resp: 12785

Ion	Ratio	Lower	Upper
248	100		
250	100.3	76.8	115.2
141	61.8	75.6	113.4#

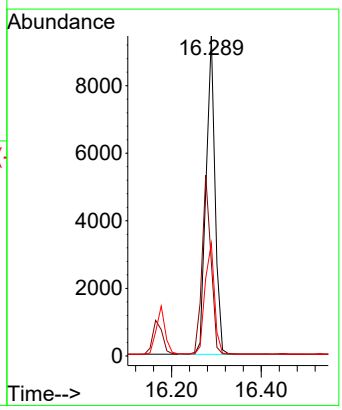


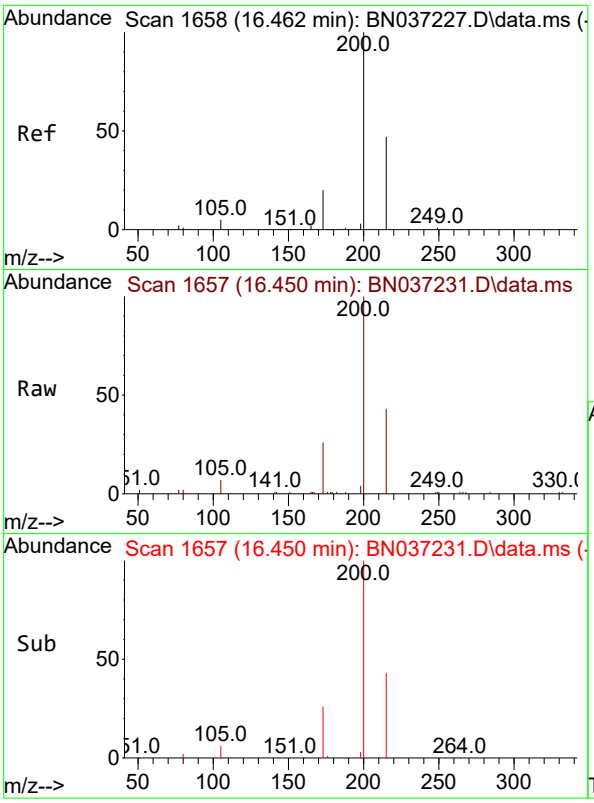


#22
Hexachlorobenzene
Concen: 4.616 ng
RT: 16.289 min Scan# 1644
Delta R.T. 0.000 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

Tgt Ion:284 Resp: 13054

Ion	Ratio	Lower	Upper
284	100		
142	56.1	43.8	65.6
249	37.0	28.4	42.6



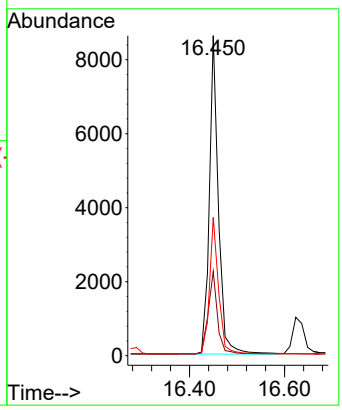


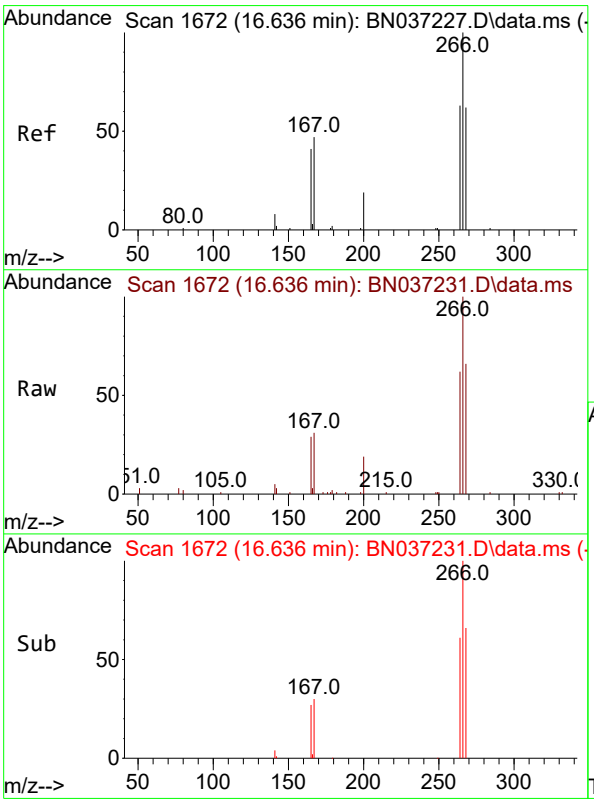
#23
Atrazine
Concen: 5.239 ng
RT: 16.450 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:200 Resp: 11399

Ion	Ratio	Lower	Upper
200	100		
173	26.4	25.1	37.7
215	43.2	43.7	65.5#

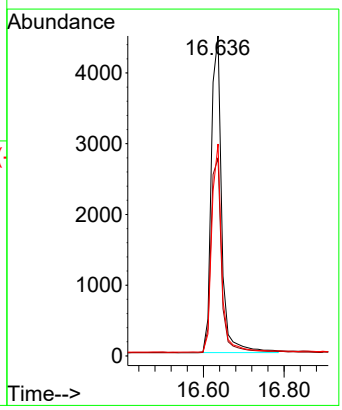


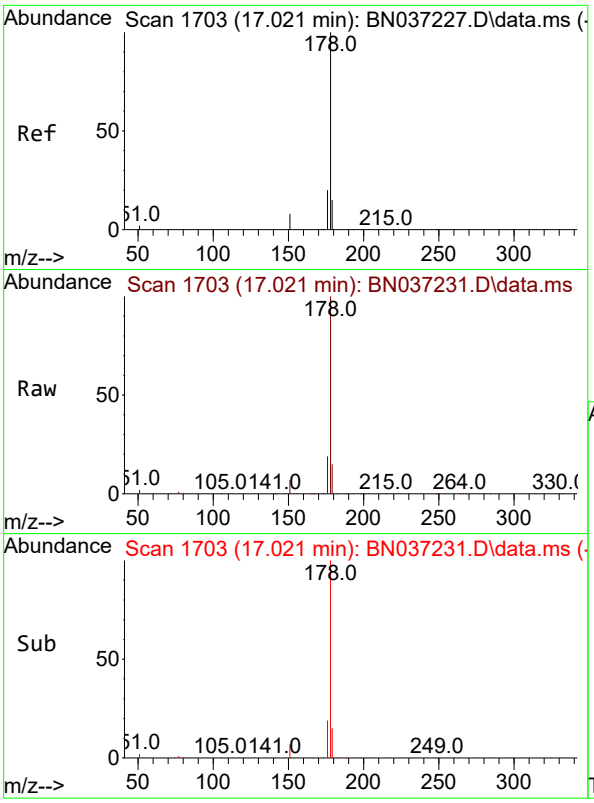


#24
Pentachlorophenol
Concen: 5.782 ng
RT: 16.636 min Scan# 1672
Delta R.T. 0.000 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

Tgt Ion:266 Resp: 8014

Ion	Ratio	Lower	Upper
266	100		
264	63.1	49.2	73.8
268	63.1	53.4	80.2



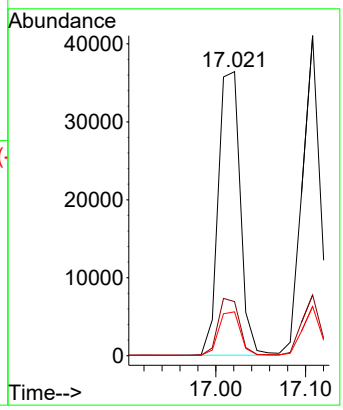


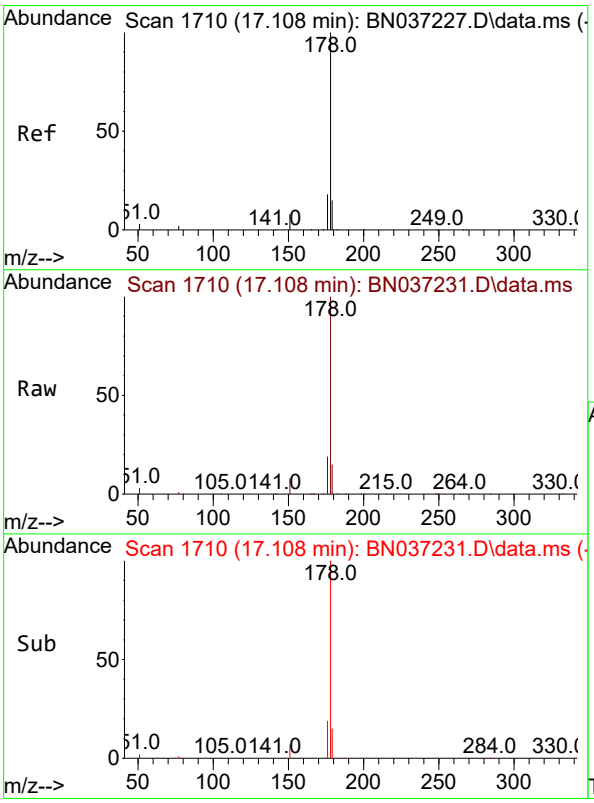
#25
Phenanthrene
Concen: 5.232 ng
RT: 17.021 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:178 Resp: 62123

Ion	Ratio	Lower	Upper
178	100		
176	19.7	16.3	24.5
179	15.2	12.6	18.8

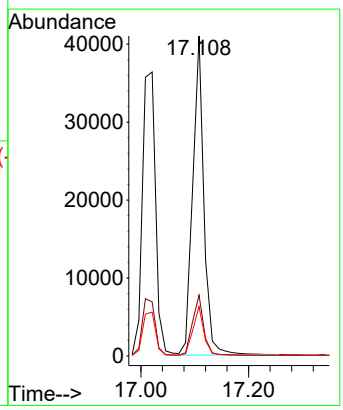


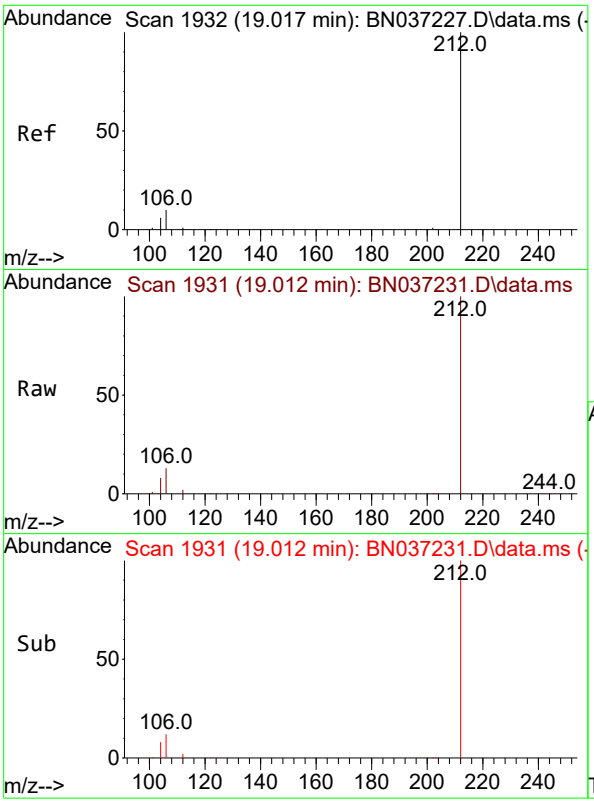


#26
Anthracene
Concen: 5.429 ng
RT: 17.108 min Scan# 1710
Delta R.T. 0.000 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

Tgt Ion:178 Resp: 59009

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.1	22.7
179	15.2	12.4	18.6



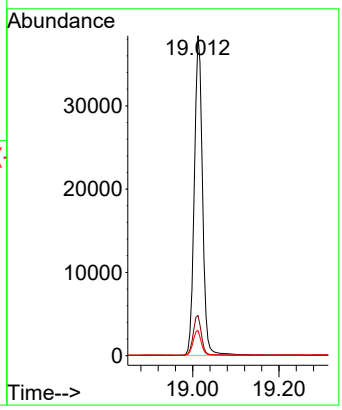


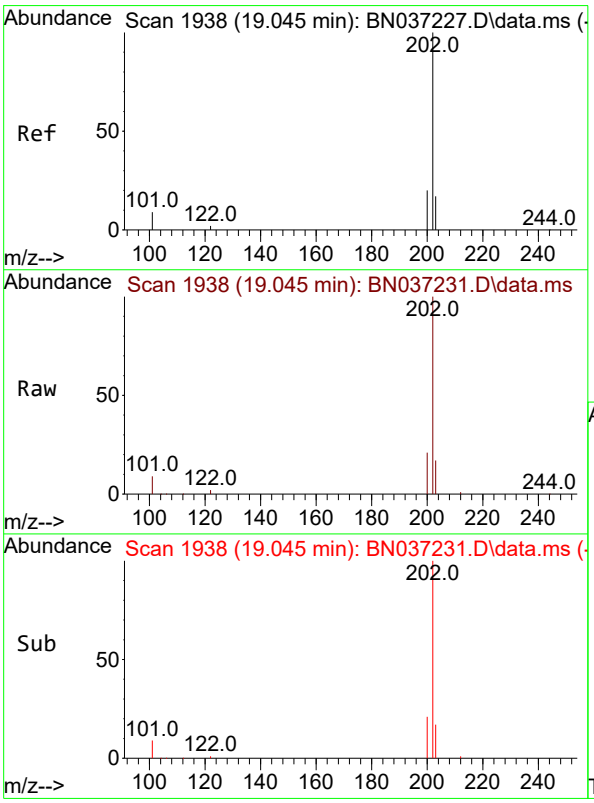
#27
Fluoranthene-d10
Concen: 5.125 ng
RT: 19.012 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:212 Resp: 50205

Ion	Ratio	Lower	Upper
212	100		
106	12.6	9.3	13.9
104	7.7	5.7	8.5

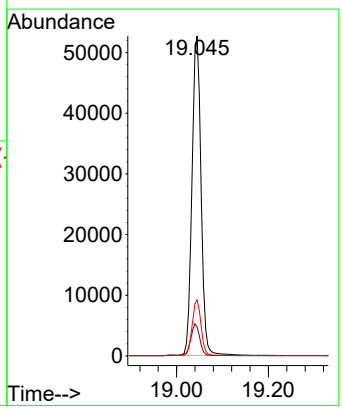


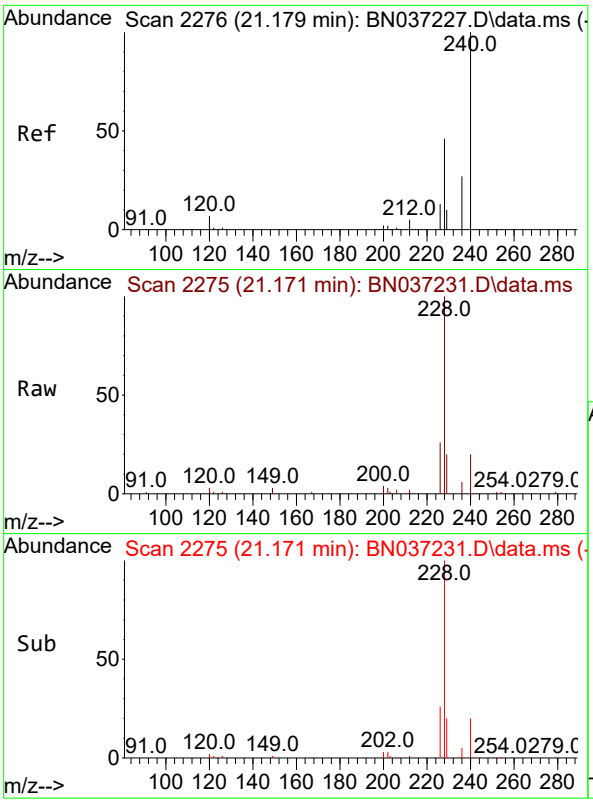


#28
Fluoranthene
Concen: 5.177 ng
RT: 19.045 min Scan# 1938
Delta R.T. 0.000 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

Tgt Ion:202 Resp: 71952

Ion	Ratio	Lower	Upper
202	100		
101	10.0	7.1	10.7
203	17.2	13.0	19.6



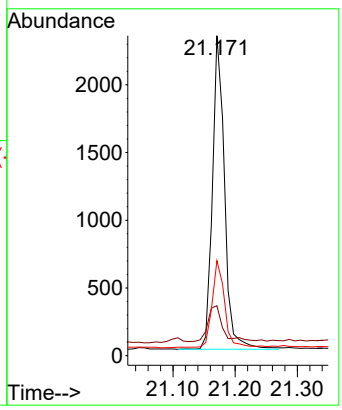


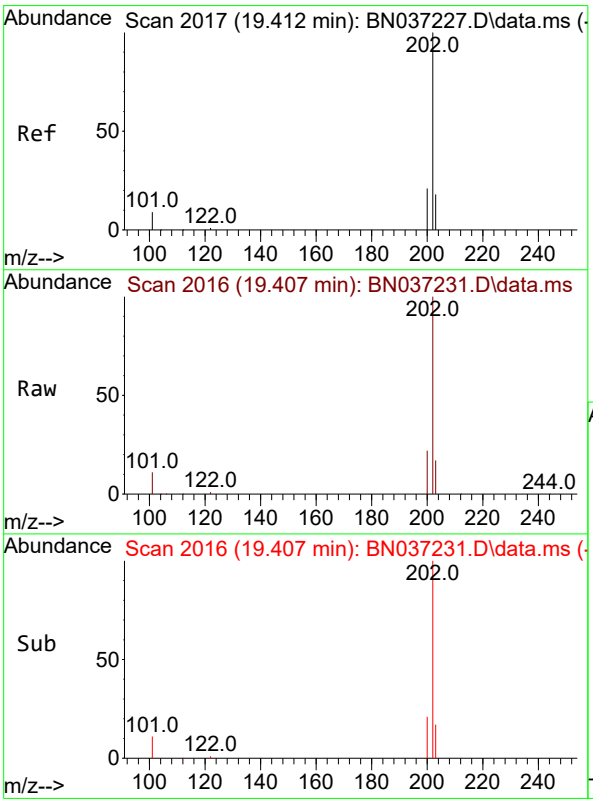
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.171 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:240 Resp: 3121

Ion	Ratio	Lower	Upper
240	100		
120	15.6	11.3	16.9
236	29.7	24.4	36.6

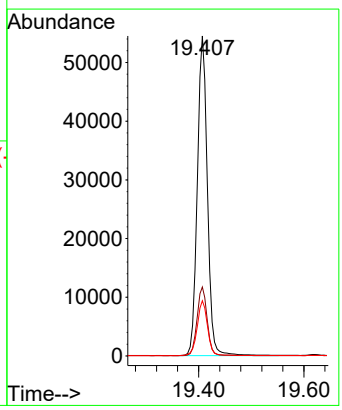


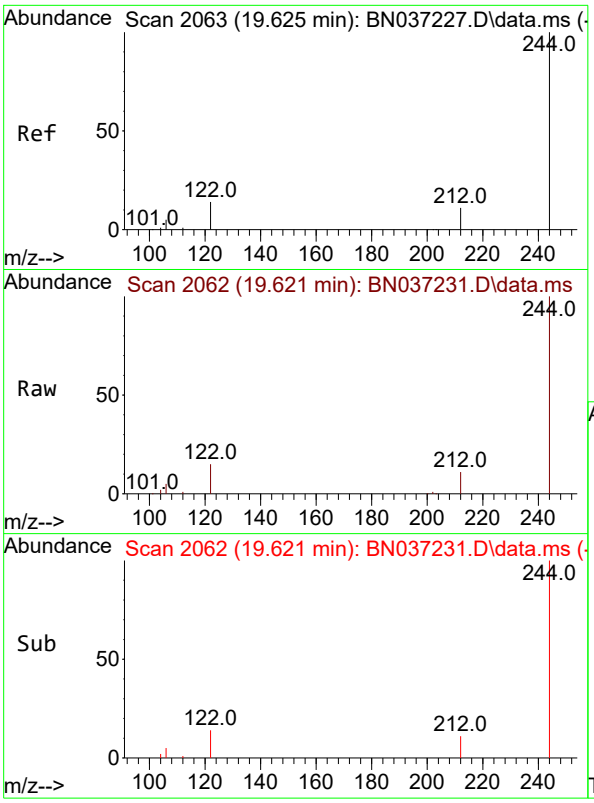


#30
Pyrene
Concen: 4.930 ng
RT: 19.407 min Scan# 2016
Delta R.T. -0.005 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

Tgt Ion:202 Resp: 72342

Ion	Ratio	Lower	Upper
202	100		
200	21.6	17.2	25.8
203	17.6	14.3	21.5



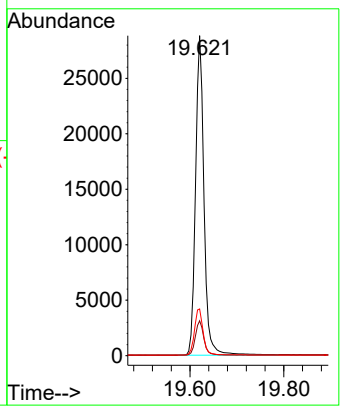


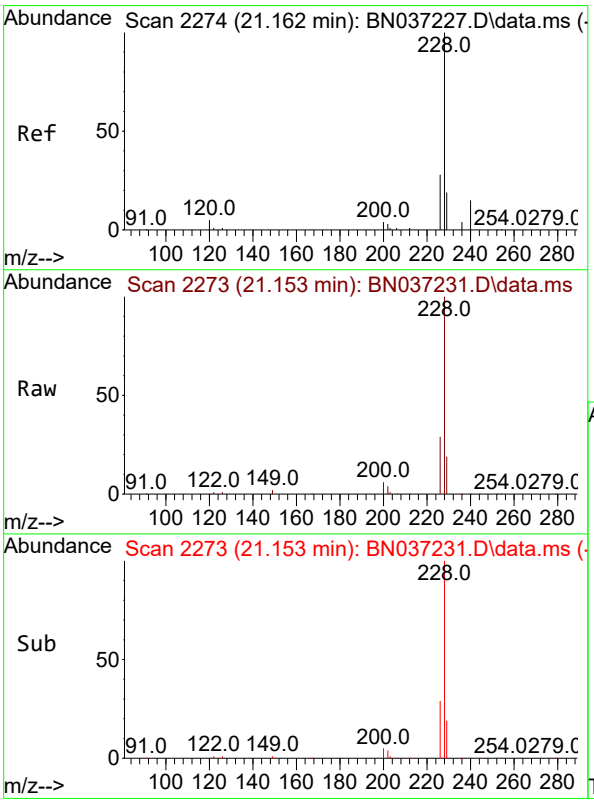
#31
Terphenyl-d14
Concen: 5.111 ng
RT: 19.621 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:244 Resp: 36062

Ion	Ratio	Lower	Upper
244	100		
212	10.9	12.2	18.2#
122	14.6	14.3	21.5

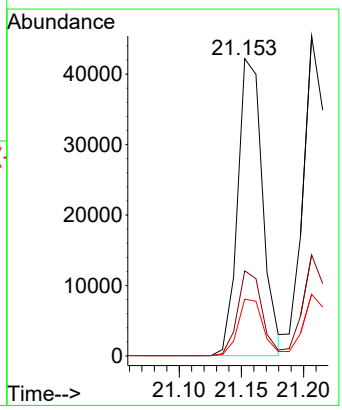


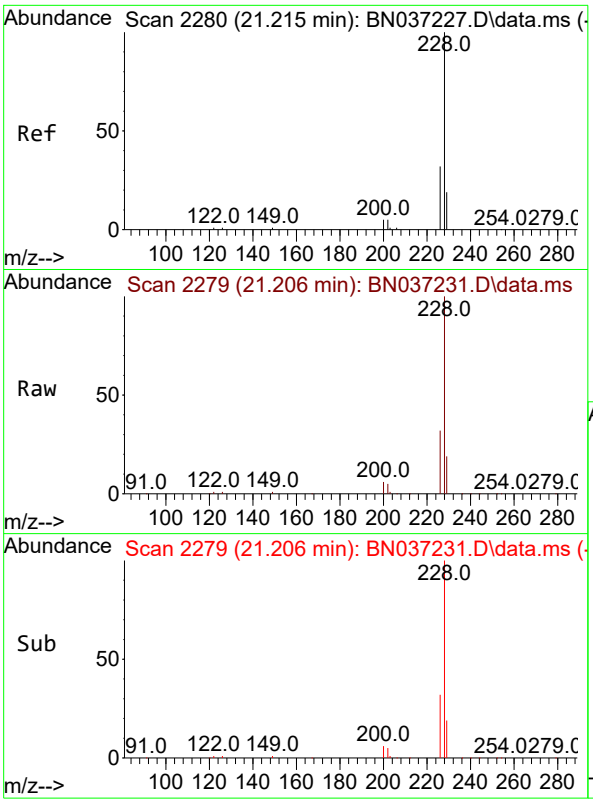


#32
Benzo(a)anthracene
Concen: 5.551 ng
RT: 21.153 min Scan# 2273
Delta R.T. -0.009 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

Tgt Ion:228 Resp: 58498

Ion	Ratio	Lower	Upper
228	100		
226	28.6	23.8	35.8
229	19.1	17.0	25.4



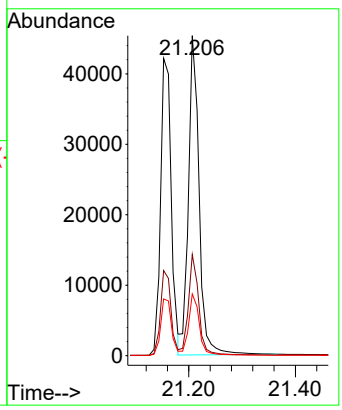


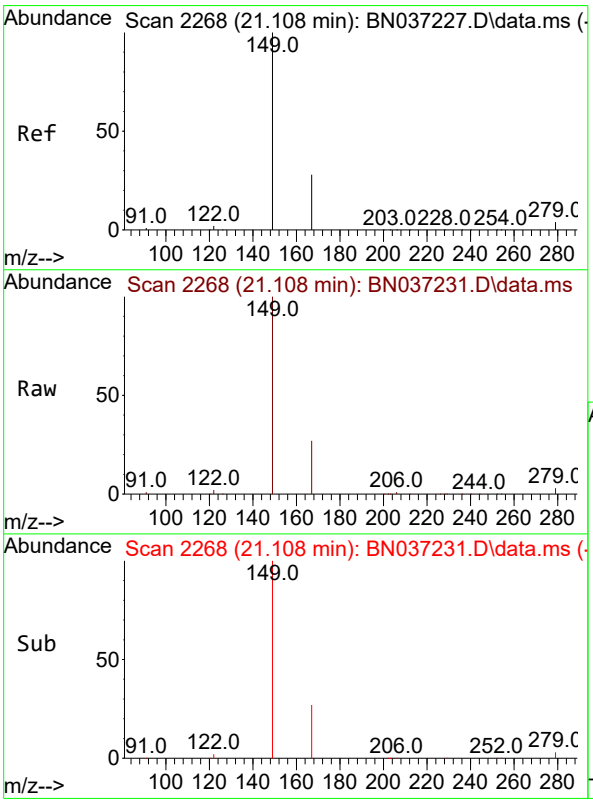
#33
Chrysene
Concen: 4.803 ng
RT: 21.206 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:228 Resp: 63057

Ion	Ratio	Lower	Upper
228	100		
226	31.6	25.8	38.6
229	19.3	17.0	25.4

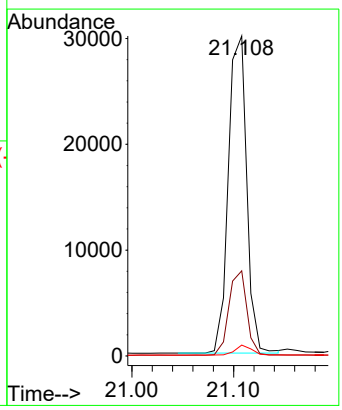


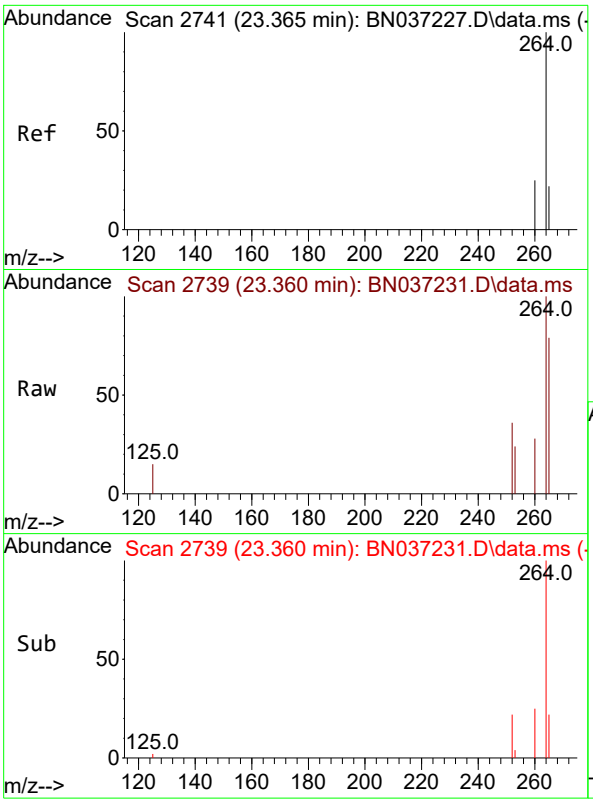


#34
Bis(2-ethylhexyl)phthalate
Concen: 4.774 ng
RT: 21.108 min Scan# 2268
Delta R.T. 0.000 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

Tgt Ion:149 Resp: 37466

Ion	Ratio	Lower	Upper
149	100		
167	26.0	21.3	31.9
279	2.9	3.3	4.9#



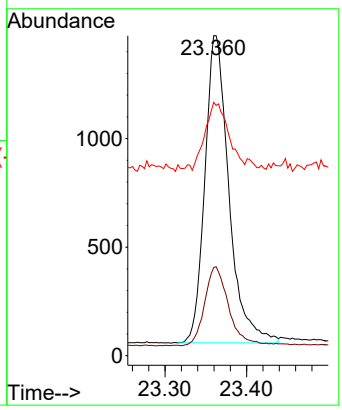


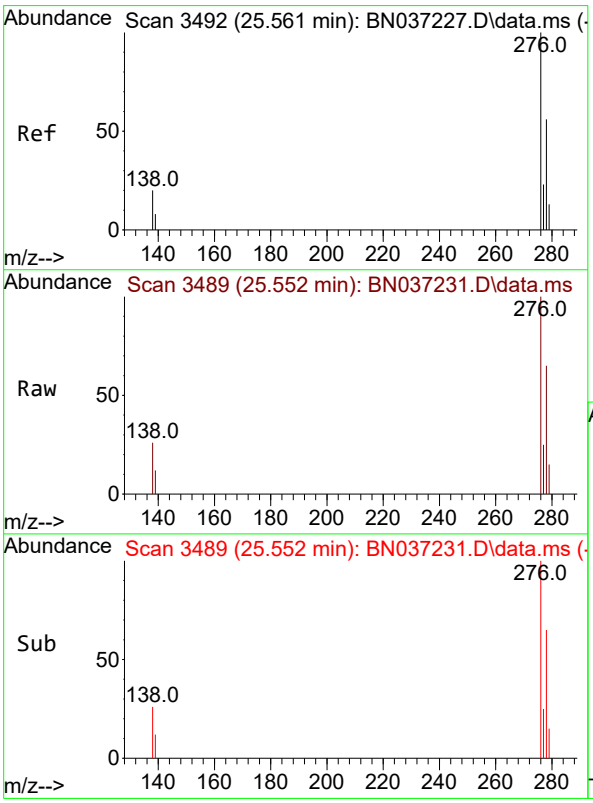
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.360 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:264 Resp: 2895

Ion	Ratio	Lower	Upper
264	100		
260	27.5	22.8	34.2
265	79.2	66.4	99.6

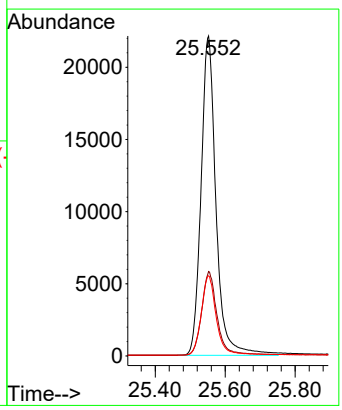


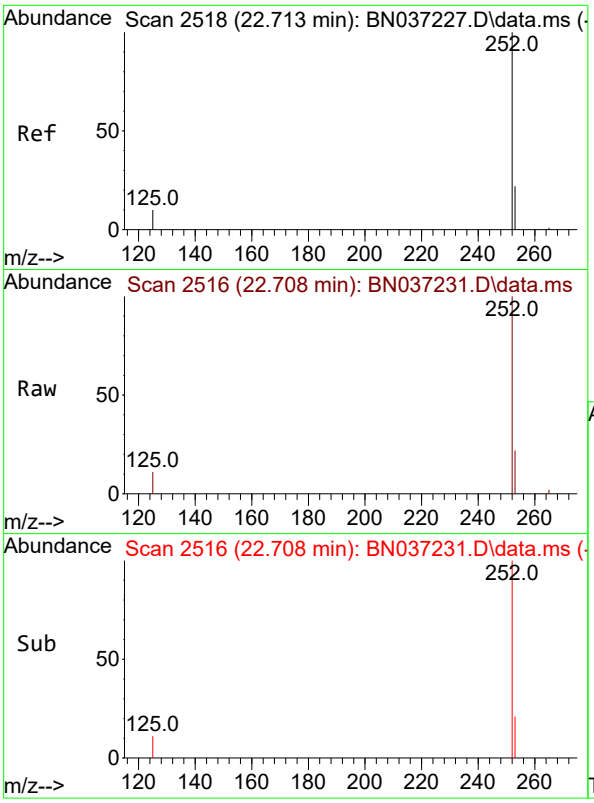


#36
Indeno(1,2,3-cd)pyrene
Concen: 5.620 ng
RT: 25.552 min Scan# 3489
Delta R.T. -0.009 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

Tgt Ion:276 Resp: 65610

Ion	Ratio	Lower	Upper
276	100		
138	26.6	16.8	25.2#
277	24.9	19.5	29.3



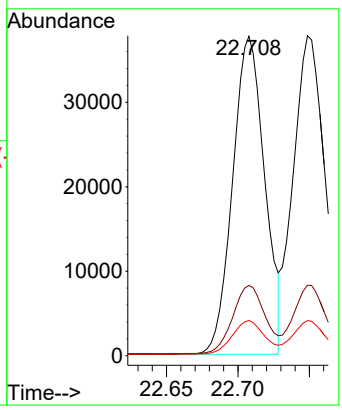


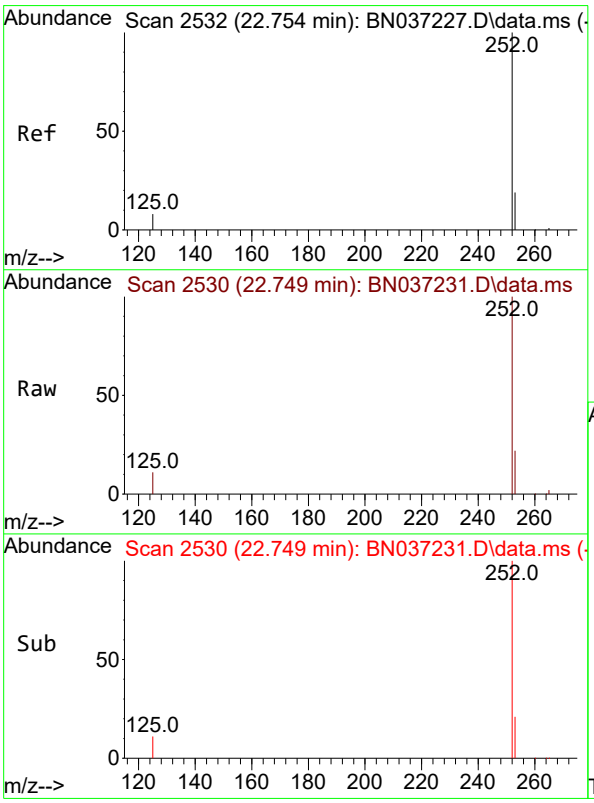
#37
Benzo(b)fluoranthene
Concen: 5.536 ng
RT: 22.708 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:252 Resp: 58631

Ion	Ratio	Lower	Upper
252	100		
253	22.0	24.9	37.3#
125	11.0	12.9	19.3#

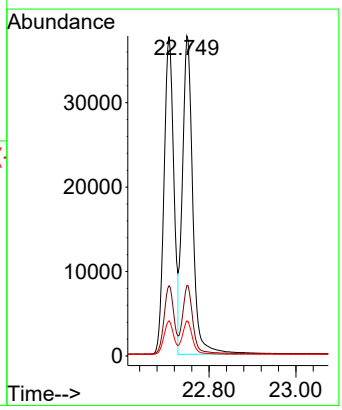


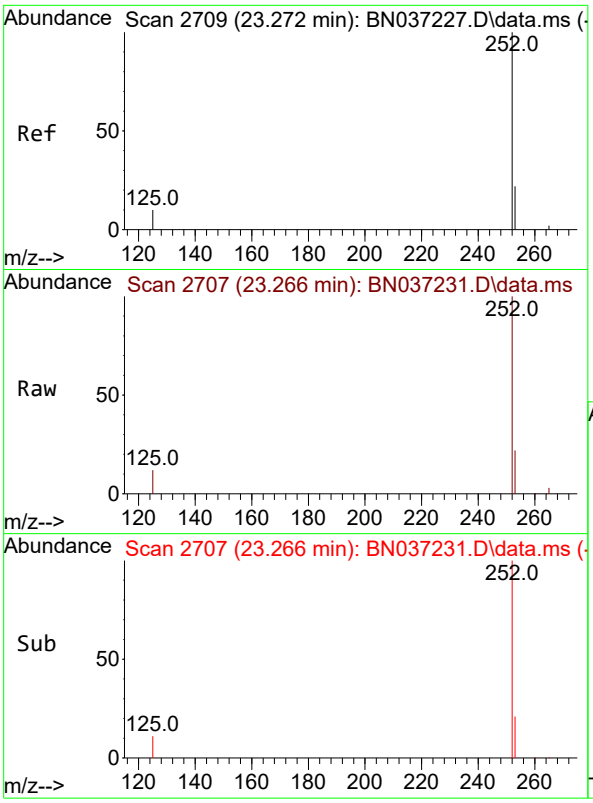


#38
Benzo(k)fluoranthene
Concen: 5.148 ng
RT: 22.749 min Scan# 2530
Delta R.T. -0.006 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

Tgt Ion:252 Resp: 62537

Ion	Ratio	Lower	Upper
252	100		
253	22.0	24.6	37.0#
125	11.0	13.4	20.2#



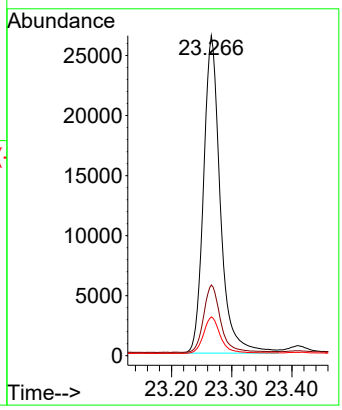


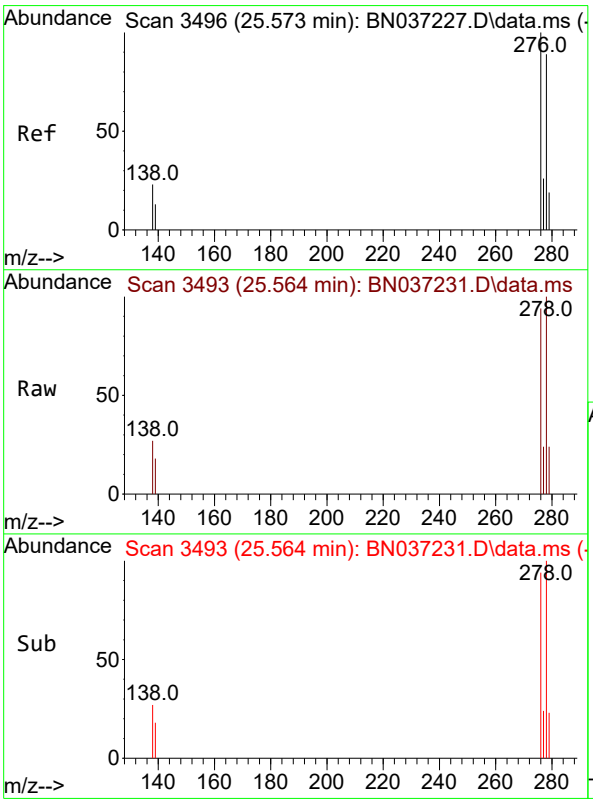
#39
Benzo(a)pyrene
Concen: 5.368 ng
RT: 23.266 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:252 Resp: 51138

Ion	Ratio	Lower	Upper
252	100		
253	22.1	29.4	44.2#
125	12.1	16.2	24.2#

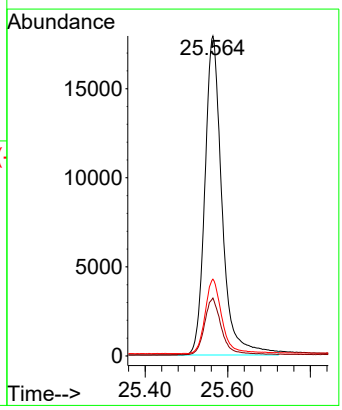


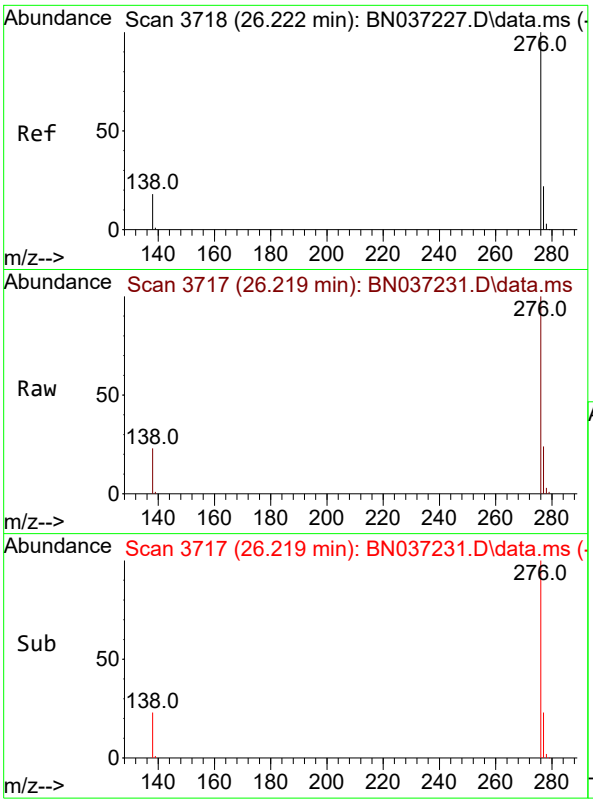


#40
Dibenzo(a,h)anthracene
Concen: 5.871 ng
RT: 25.564 min Scan# 3493
Delta R.T. -0.009 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

Tgt Ion:278 Resp: 51648

Ion	Ratio	Lower	Upper
278	100		
139	18.1	17.8	26.6
279	24.0	31.3	46.9#



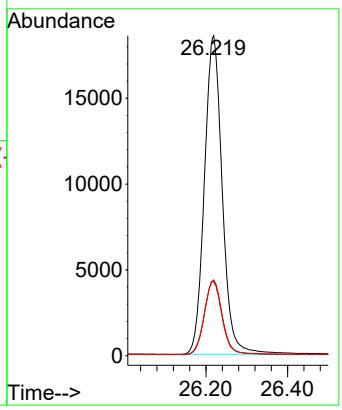


#41
Benzo(g,h,i)perylene
Concen: 5.204 ng
RT: 26.219 min Scan# 3
Delta R.T. -0.003 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:276 Resp: 56339

Ion	Ratio	Lower	Upper
276	100		
277	23.7	22.0	33.0
138	23.2	18.4	27.6



Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037232.D
Acq On : 13 Jun 2025 17:47
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN061325

Quant Time: Jun 13 18:44:16 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration

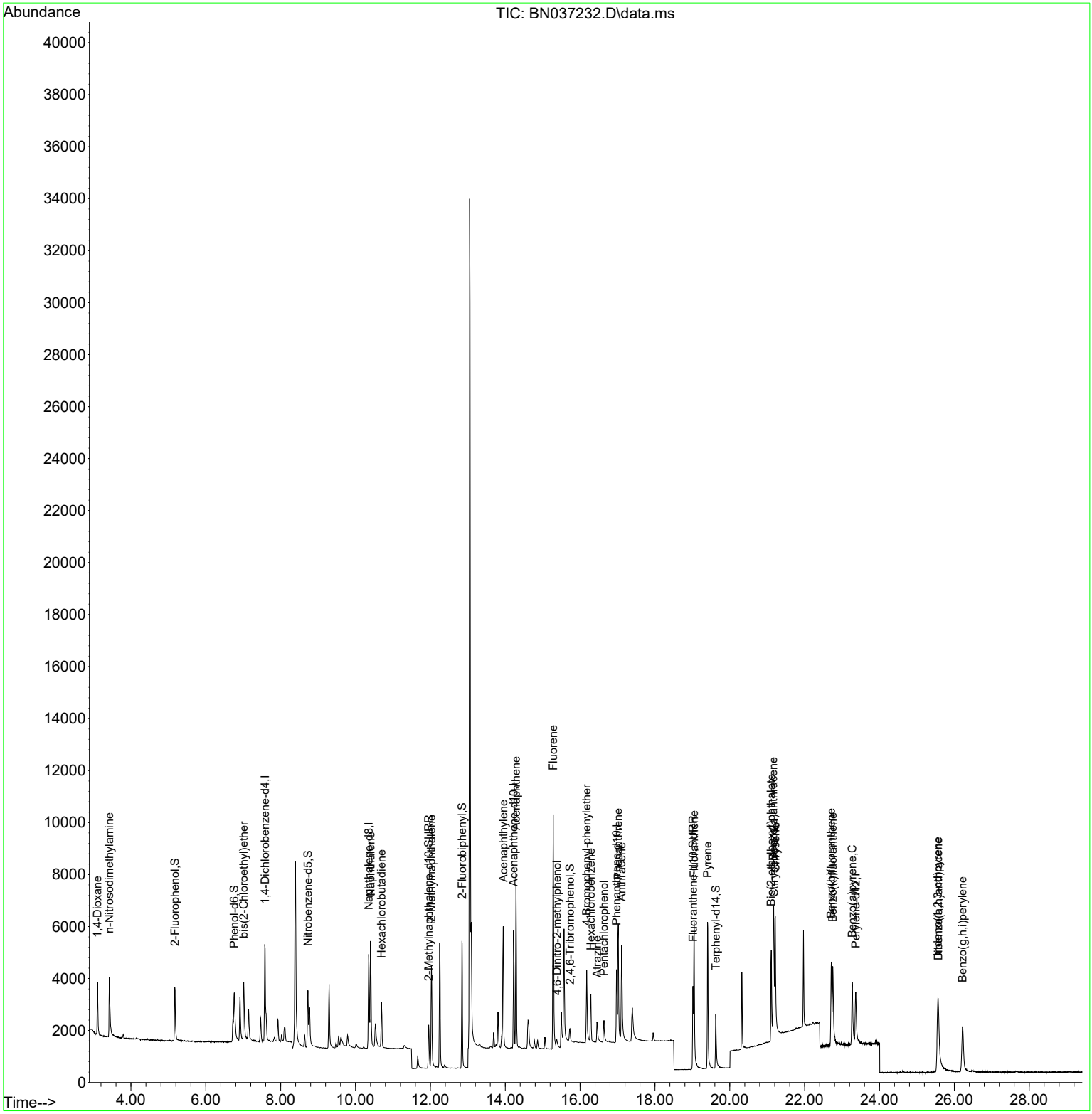
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.582	152	1986	0.400	ng		0.00
7) Naphthalene-d8	10.351	136	4902	0.400	ng		#-0.01
13) Acenaphthene-d10	14.224	164	2552	0.400	ng		0.00
19) Phenanthrene-d10	16.971	188	4515	0.400	ng		0.00
29) Chrysene-d12	21.180	240	3230	0.400	ng		0.00
35) Perylene-d12	23.366	264	3076	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.177	112	1716	0.352	ng		0.00
5) Phenol-d6	6.759	99	1849	0.360	ng		0.00
8) Nitrobenzene-d5	8.728	82	1988	0.410	ng		0.00
11) 2-Methylnaphthalene-d10	11.955	152	2615	0.398	ng		0.00
14) 2,4,6-Tribromophenol	15.730	330	327	0.308	ng		0.00
15) 2-Fluorobiphenyl	12.848	172	4427	0.413	ng		0.00
27) Fluoranthene-d10	19.017	212	4358	0.369	ng		0.00
31) Terphenyl-d14	19.625	244	3044	0.417	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.104	88	1095	0.402	ng		91
3) n-Nitrosodimethylamine	3.422	42	2259	0.364	ng	#	91
6) bis(2-Chloroethyl)ether	7.012	93	2110	0.458	ng		89
9) Naphthalene	10.404	128	5483	0.386	ng		97
10) Hexachlorobutadiene	10.693	225	1319	0.382	ng	#	97
12) 2-Methylnaphthalene	12.026	142	3073	0.356	ng		99
16) Acenaphthylene	13.946	152	5109	0.409	ng		98
17) Acenaphthene	14.288	154	3050	0.378	ng		99
18) Fluorene	15.282	166	3826	0.369	ng		100
20) 4,6-Dinitro-2-methylph...	15.378	198	326	0.392	ng		92
21) 4-Bromophenyl-phenylether	16.177	248	1082	0.368	ng		97
22) Hexachlorobenzene	16.289	284	1296	0.380	ng		98
23) Atrazine	16.450	200	1004	0.383	ng		89
24) Pentachlorophenol	16.636	266	540	0.323	ng		95
25) Phenanthrene	17.021	178	5458	0.381	ng		99
26) Anthracene	17.108	178	4934	0.376	ng		100
28) Fluoranthene	19.045	202	5935	0.354	ng		98
30) Pyrene	19.407	202	5948	0.392	ng		100
32) Benzo(a)anthracene	21.162	228	4183	0.384	ng		99
33) Chrysene	21.215	228	5302	0.390	ng		98
34) Bis(2-ethylhexyl)phtha...	21.108	149	3027	0.373	ng		100
36) Indeno(1,2,3-cd)pyrene	25.558	276	4825	0.389	ng		99
37) Benzo(b)fluoranthene	22.711	252	4122	0.366	ng		96
38) Benzo(k)fluoranthene	22.752	252	4721	0.363	ng		98
39) Benzo(a)pyrene	23.272	252	4086	0.404	ng	#	93
40) Dibenzo(a,h)anthracene	25.573	278	3443	0.365	ng		94
41) Benzo(g,h,i)perylene	26.219	276	4068	0.354	ng		97

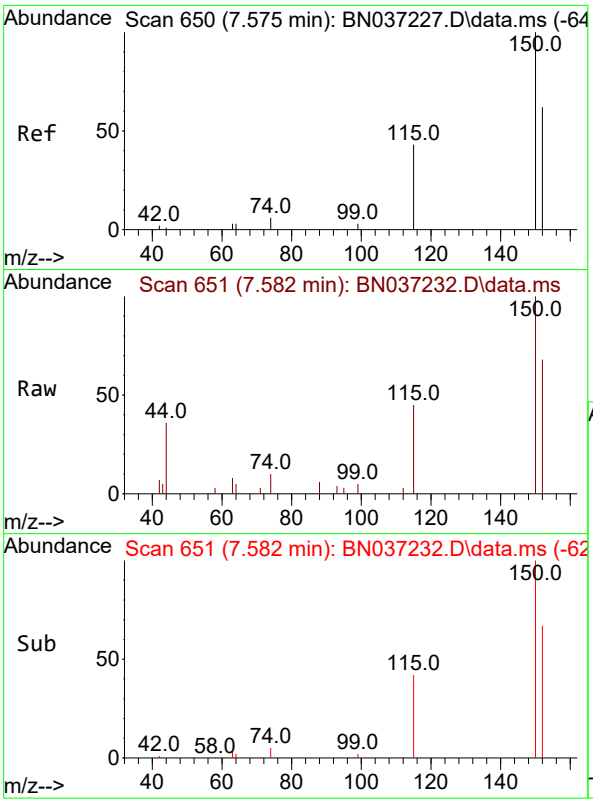
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037232.D
Acq On : 13 Jun 2025 17:47
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN061325

Quant Time: Jun 13 18:44:16 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration



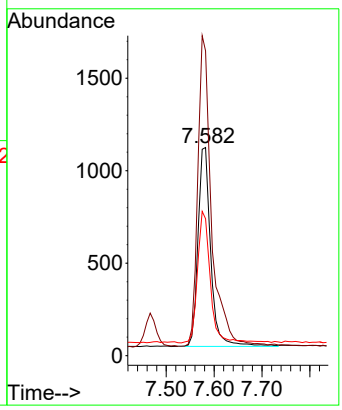


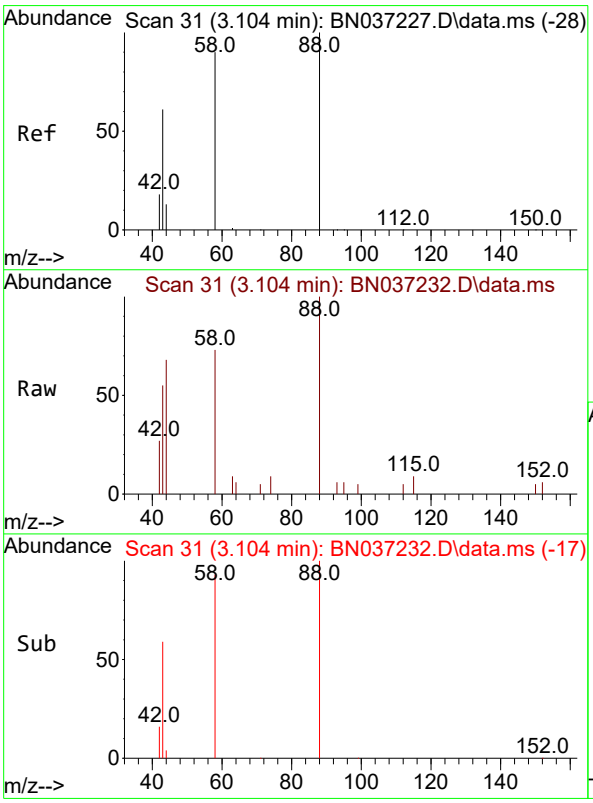
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.582 min Scan# 6
Delta R.T. 0.007 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

Instrument :
BNA_N
ClientSampleId :
ICVBN061325

Tgt Ion:152 Resp: 1986

Ion	Ratio	Lower	Upper
152	100		
150	146.5	125.2	187.8
115	65.8	58.4	87.6

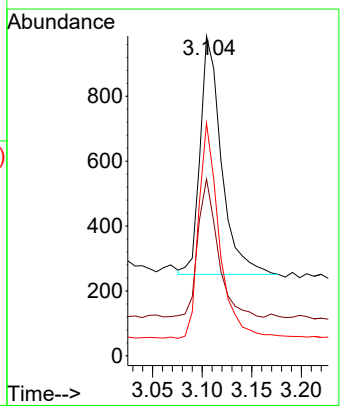


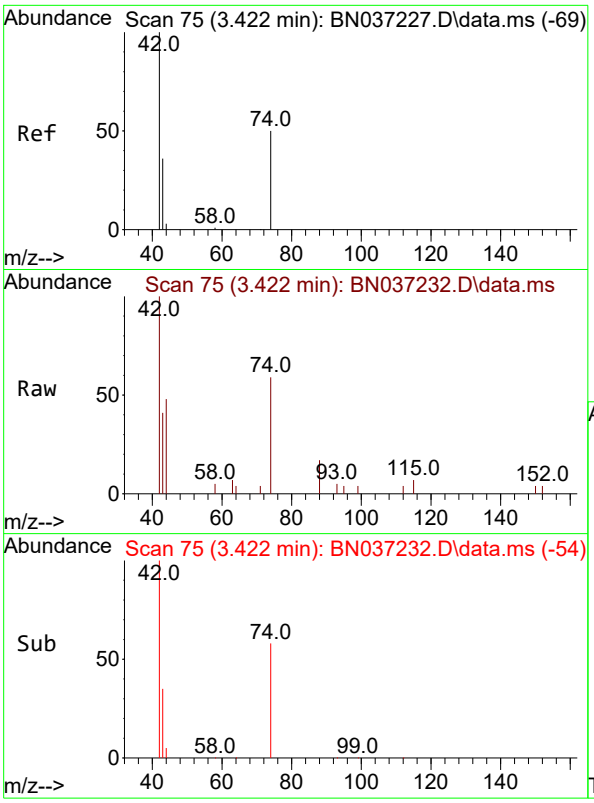


#2
1,4-Dioxane
Concen: 0.402 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

Tgt Ion: 88 Resp: 1095

Ion	Ratio	Lower	Upper
88	100		
43	54.6	52.6	79.0
58	86.8	73.5	110.3



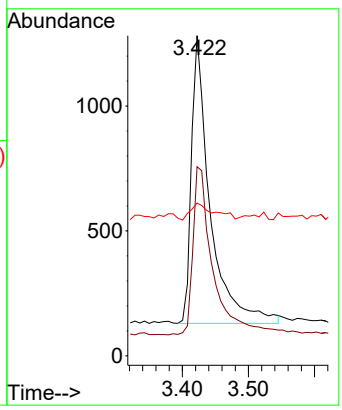


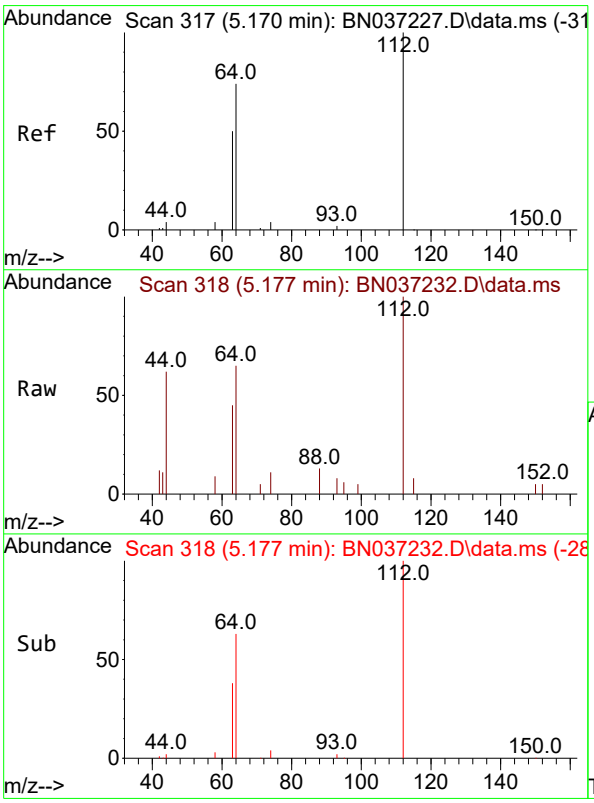
#3
n-Nitrosodimethylamine
Concen: 0.364 ng
RT: 3.422 min Scan# 7
Delta R.T. 0.000 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

Instrument :
BNA_N
ClientSampleId :
ICVBN061325

Tgt Ion: 42 Resp: 2259

Ion	Ratio	Lower	Upper
42	100		
74	62.0	44.6	66.8
44	7.5	3.5	5.3#

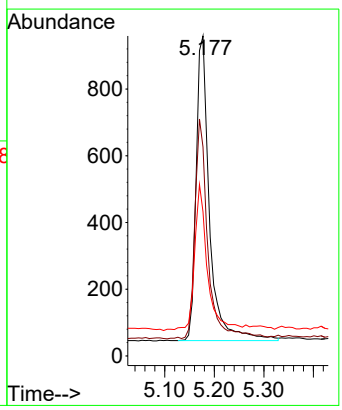


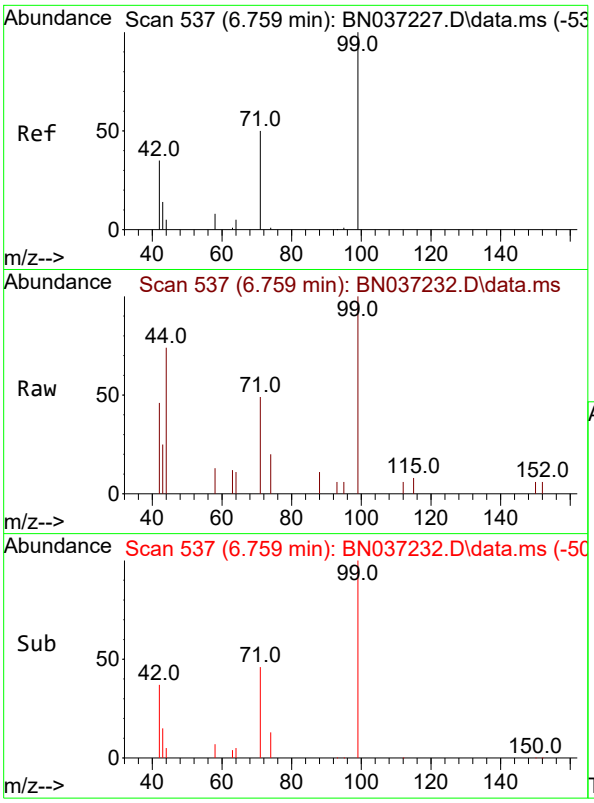


#4
2-Fluorophenol
Concen: 0.352 ng
RT: 5.177 min Scan# 318
Delta R.T. 0.007 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

Tgt Ion:112 Resp: 1716

Ion	Ratio	Lower	Upper
112	100		
64	70.6	57.2	85.8
63	45.6	39.8	59.6



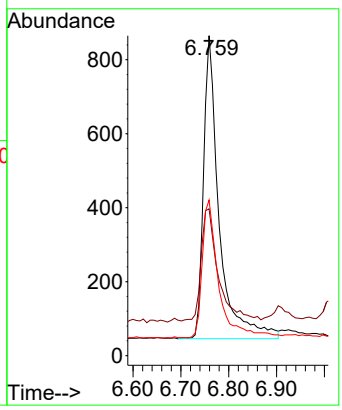


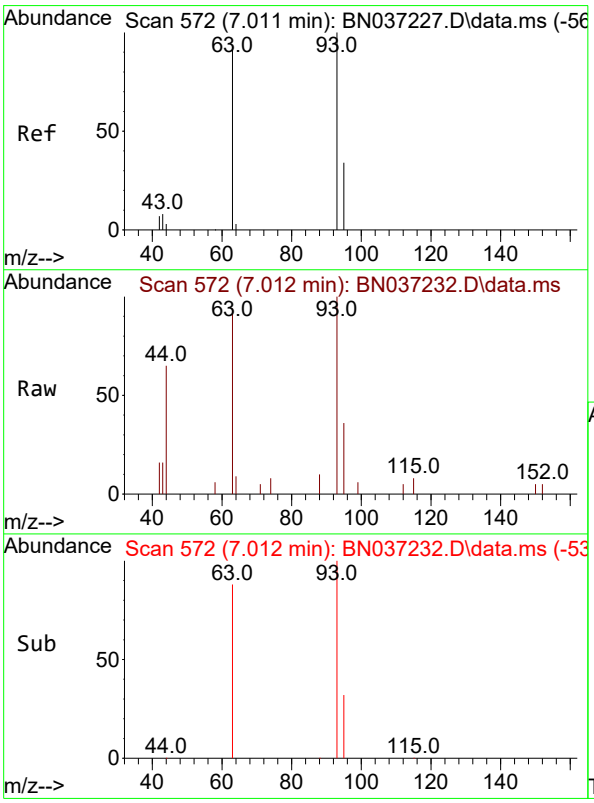
#5
Phenol-d6
Concen: 0.360 ng
RT: 6.759 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

Instrument :
BNA_N
ClientSampleId :
ICVBN061325

Tgt Ion: 99 Resp: 1849

Ion	Ratio	Lower	Upper
99	100		
42	40.9	36.2	54.4
71	48.2	42.4	63.6

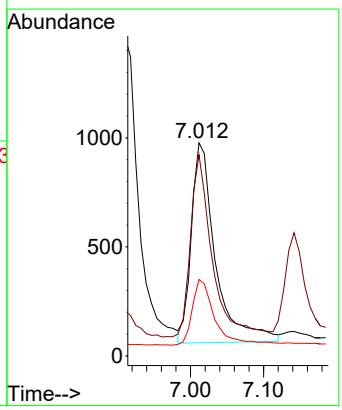


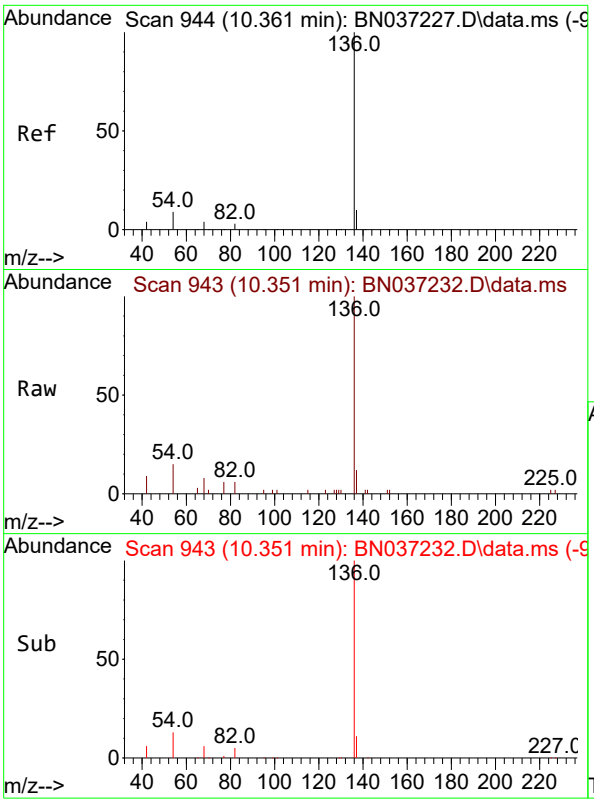


#6
bis(2-Chloroethyl)ether
Concen: 0.458 ng
RT: 7.012 min Scan# 572
Delta R.T. 0.000 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

Tgt Ion: 93 Resp: 2110

Ion	Ratio	Lower	Upper
93	100		
63	81.0	75.2	112.8
95	31.9	28.3	42.5



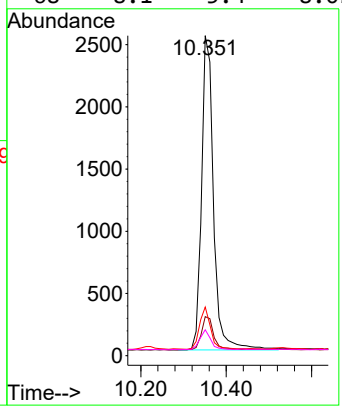


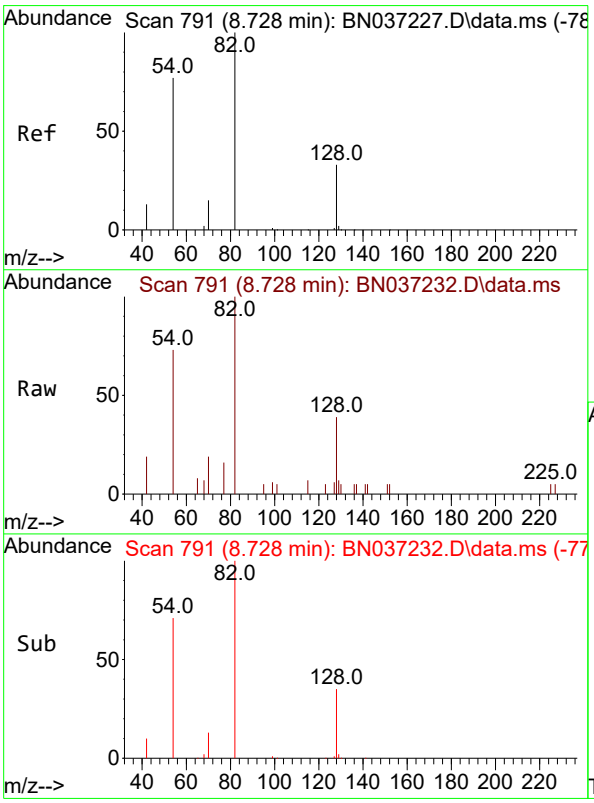
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

Instrument :
BNA_N
ClientSampleId :
ICVBN061325

Tgt Ion:136 Resp: 4902

Ion	Ratio	Lower	Upper
136	100		
137	12.2	10.6	15.8
54	15.2	9.2	13.8#
68	8.1	5.4	8.0#

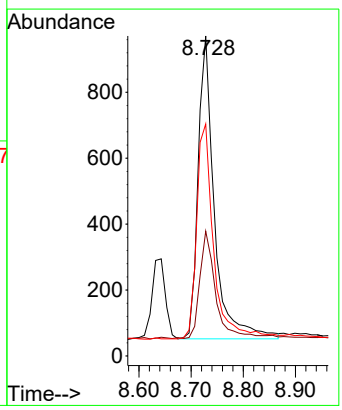


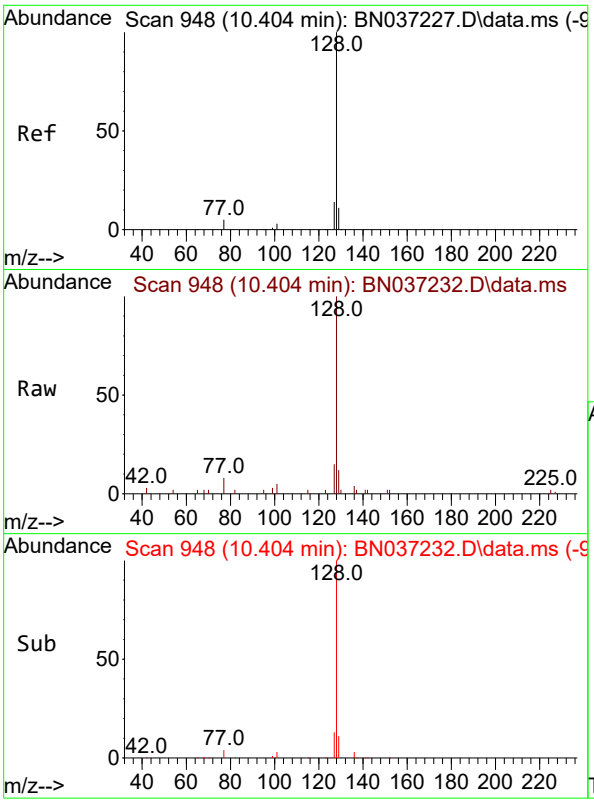


#8
Nitrobenzene-d5
Concen: 0.410 ng
RT: 8.728 min Scan# 791
Delta R.T. 0.000 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

Tgt Ion: 82 Resp: 1988

Ion	Ratio	Lower	Upper
82	100		
128	39.0	31.2	46.8
54	72.5	63.3	94.9



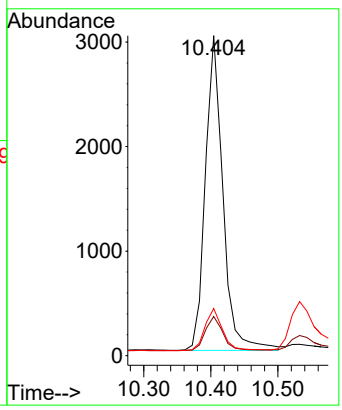


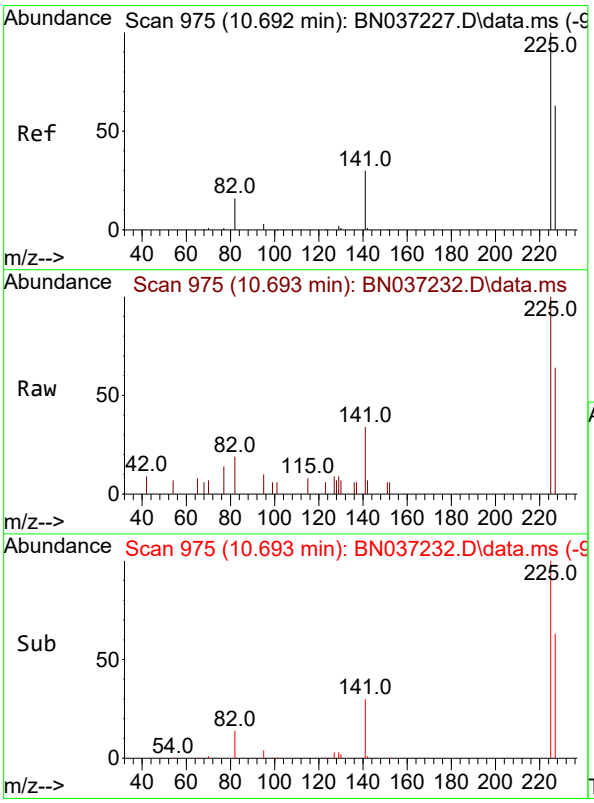
#9
Naphthalene
Concen: 0.386 ng
RT: 10.404 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

Instrument :
BNA_N
ClientSampleId :
ICVBN061325

Tgt Ion:128 Resp: 5483

Ion	Ratio	Lower	Upper
128	100		
129	12.3	10.7	16.1
127	14.7	12.6	19.0

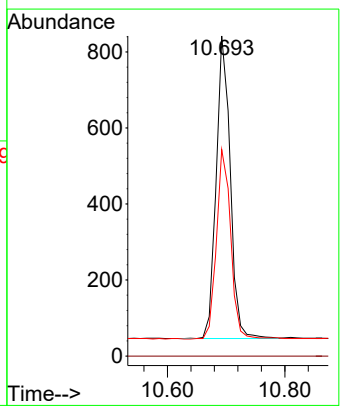


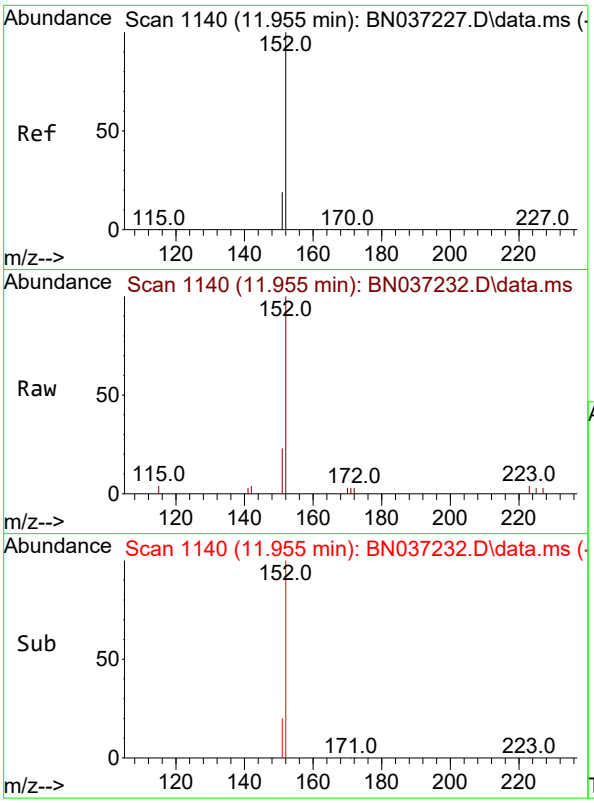


#10
Hexachlorobutadiene
Concen: 0.382 ng
RT: 10.693 min Scan# 975
Delta R.T. 0.000 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

Tgt Ion:225 Resp: 1319

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.6	49.2	73.8



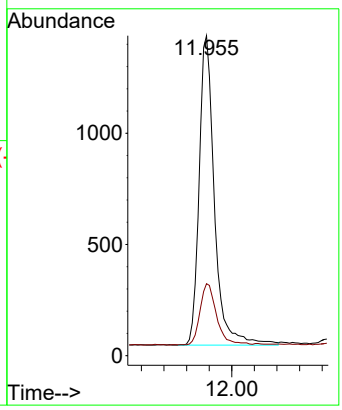


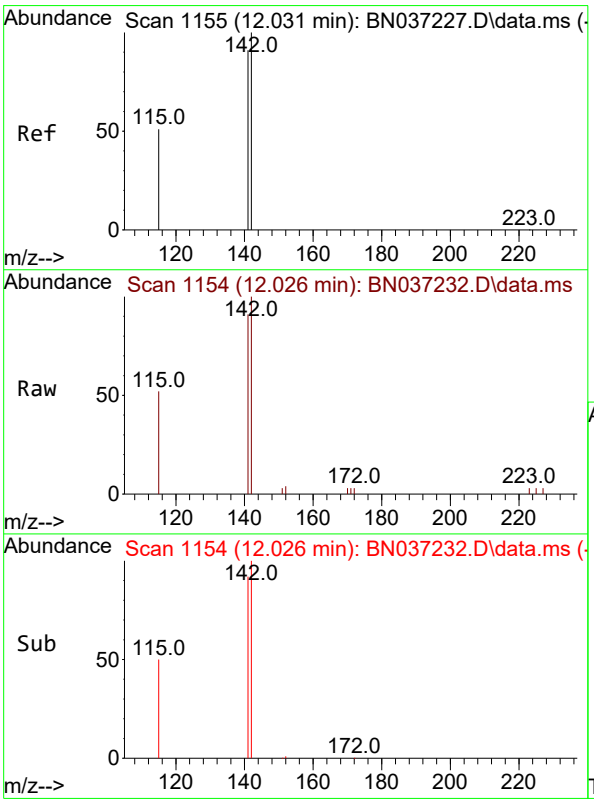
#11
2-Methylnaphthalene-d10
Concen: 0.398 ng
RT: 11.955 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

Instrument :
BNA_N
ClientSampleId :
ICVBN061325

Tgt Ion:152 Resp: 2615

Ion	Ratio	Lower	Upper
152	100		
151	21.3	17.9	26.9

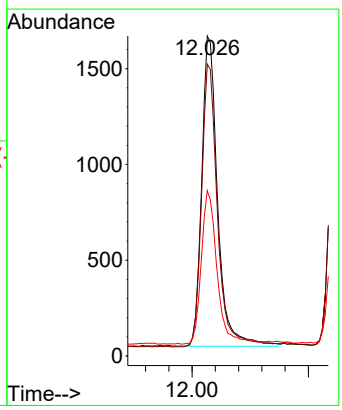


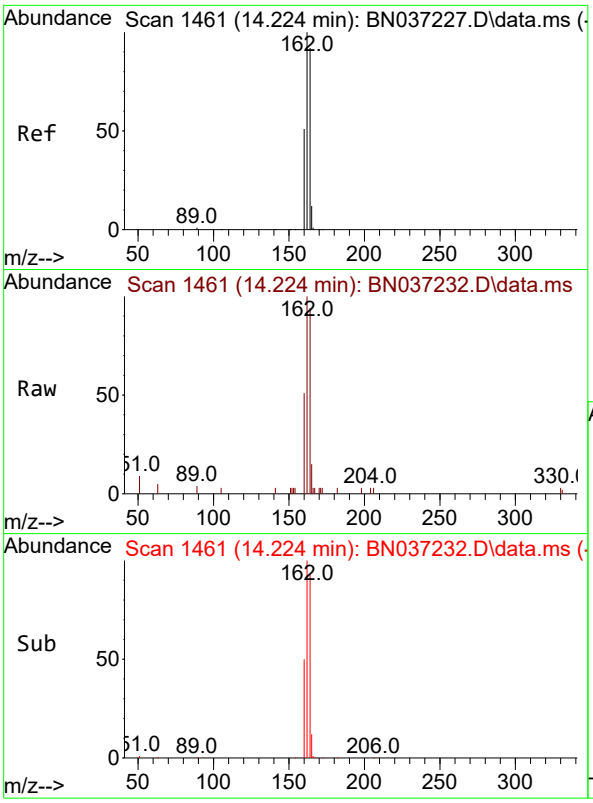


#12
2-Methylnaphthalene
Concen: 0.356 ng
RT: 12.026 min Scan# 1154
Delta R.T. -0.005 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

Tgt Ion:142 Resp: 3073

Ion	Ratio	Lower	Upper
142	100		
141	91.2	73.0	109.6
115	51.6	43.3	64.9



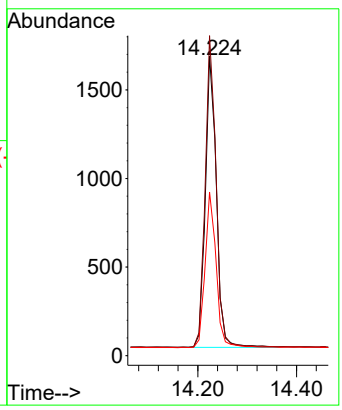


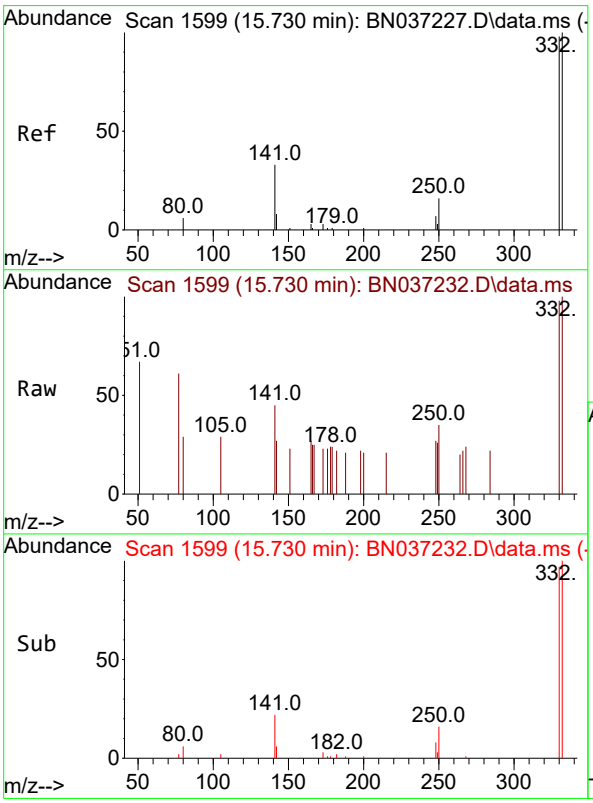
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

Instrument :
BNA_N
ClientSampleId :
ICVBN061325

Tgt Ion:164 Resp: 2552

Ion	Ratio	Lower	Upper
164	100		
162	106.8	86.7	130.1
160	54.6	45.8	68.6

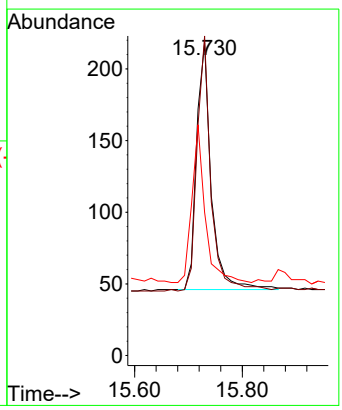


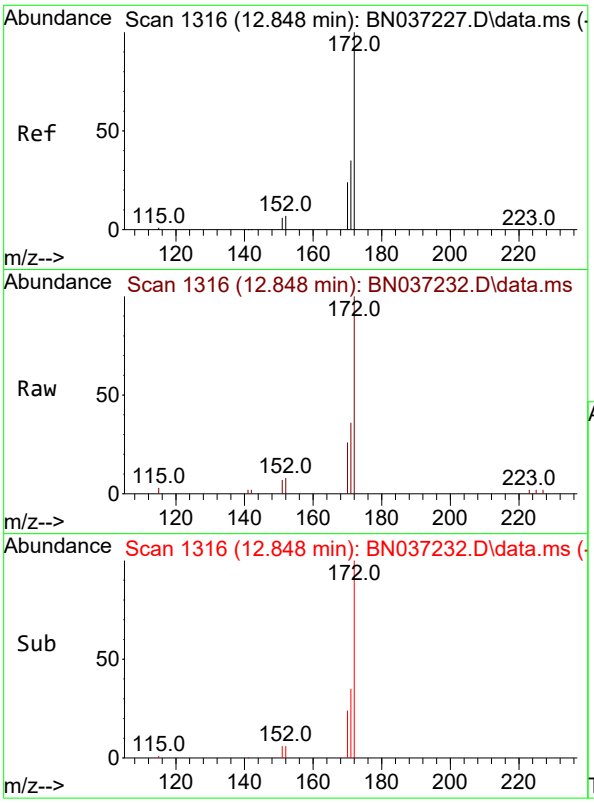


#14
2,4,6-Tribromophenol
Concen: 0.308 ng
RT: 15.730 min Scan# 1599
Delta R.T. 0.000 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

Tgt Ion:330 Resp: 327

Ion	Ratio	Lower	Upper
330	100		
332	97.6	74.9	112.3
141	57.2	45.1	67.7



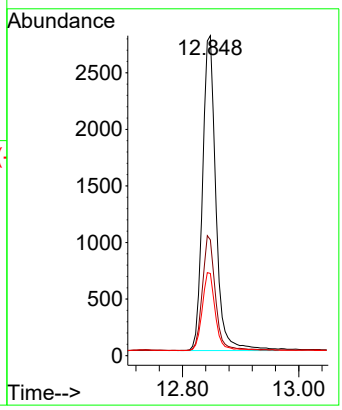


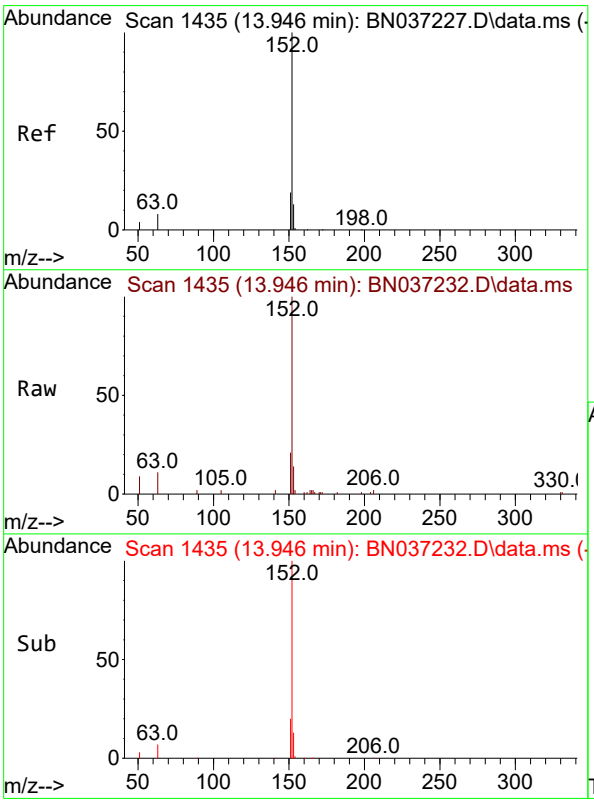
#15
2-Fluorobiphenyl
Concen: 0.413 ng
RT: 12.848 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

Instrument :
BNA_N
ClientSampleId :
ICVBN061325

Tgt Ion:172 Resp: 4427

Ion	Ratio	Lower	Upper
172	100		
171	36.2	29.8	44.8
170	25.7	21.1	31.7

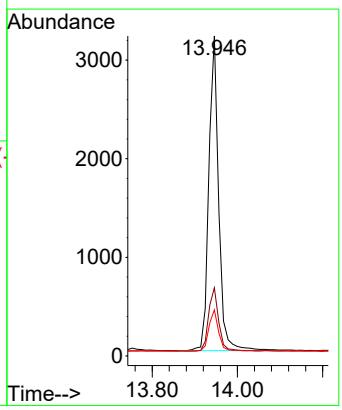


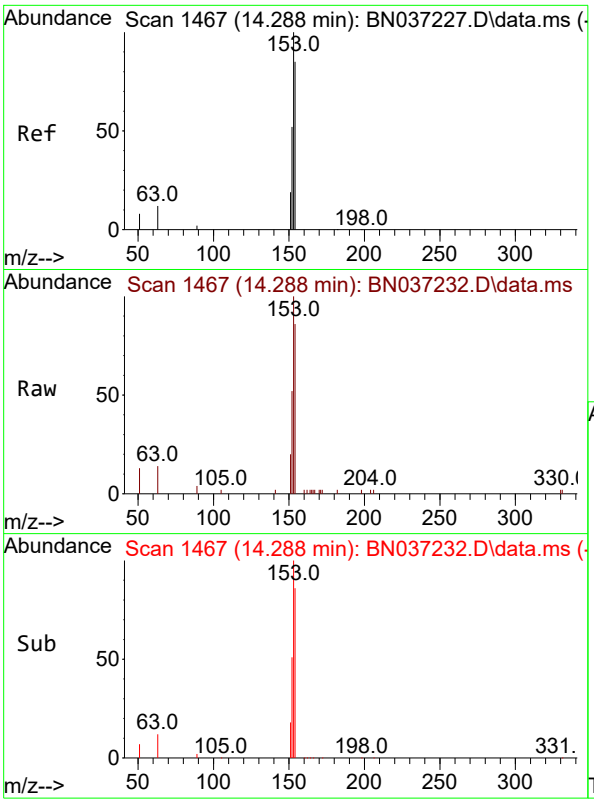


#16
Acenaphthylene
Concen: 0.409 ng
RT: 13.946 min Scan# 1435
Delta R.T. 0.000 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

Tgt Ion:152 Resp: 5109

Ion	Ratio	Lower	Upper
152	100		
151	20.7	15.7	23.5
153	12.9	10.7	16.1



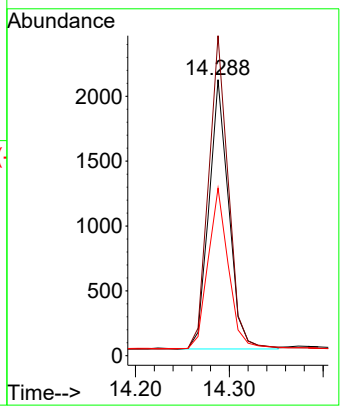


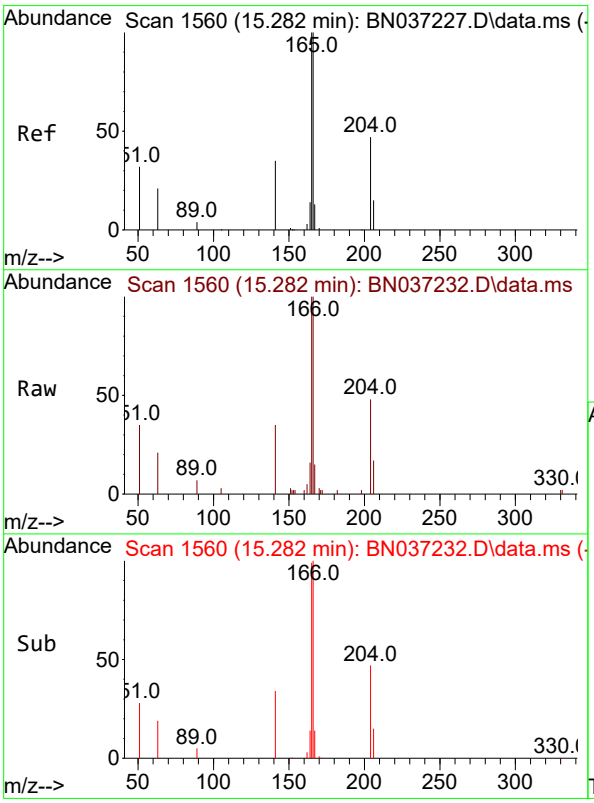
#17
Acenaphthene
Concen: 0.378 ng
RT: 14.288 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

Instrument :
BNA_N
ClientSampleId :
ICVBN061325

Tgt Ion:154 Resp: 3050

Ion	Ratio	Lower	Upper
154	100		
153	117.3	94.6	141.8
152	61.5	49.6	74.4

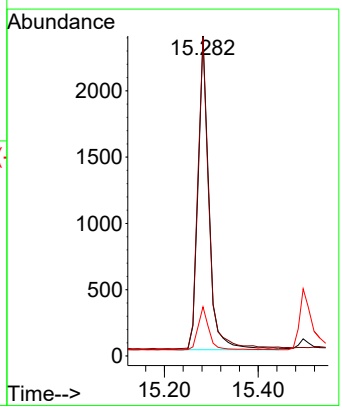


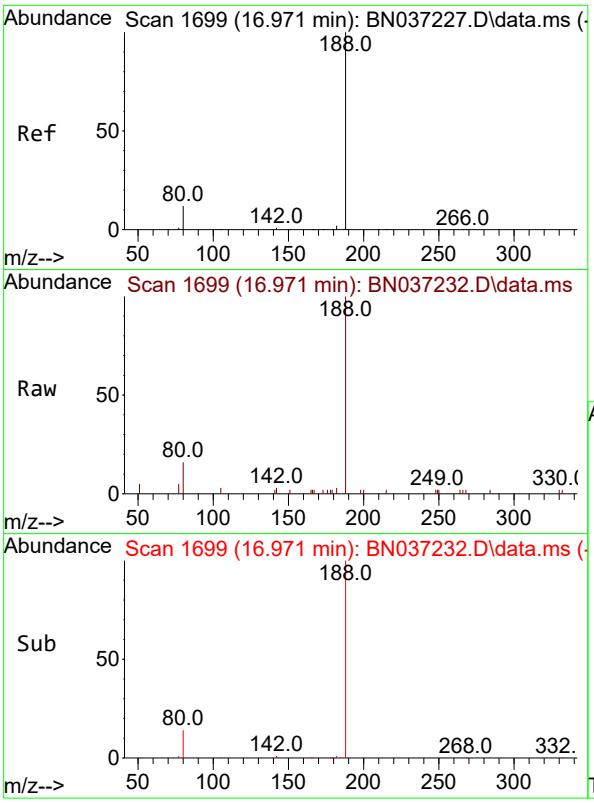


#18
Fluorene
Concen: 0.369 ng
RT: 15.282 min Scan# 1560
Delta R.T. 0.000 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

Tgt Ion:166 Resp: 3826

Ion	Ratio	Lower	Upper
166	100		
165	99.5	79.8	119.6
167	13.7	10.8	16.2



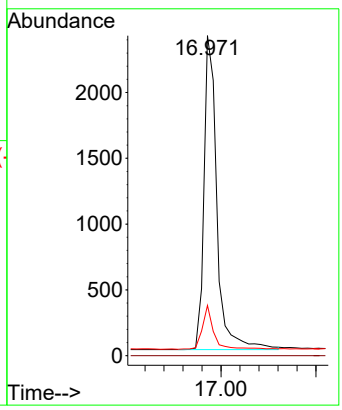


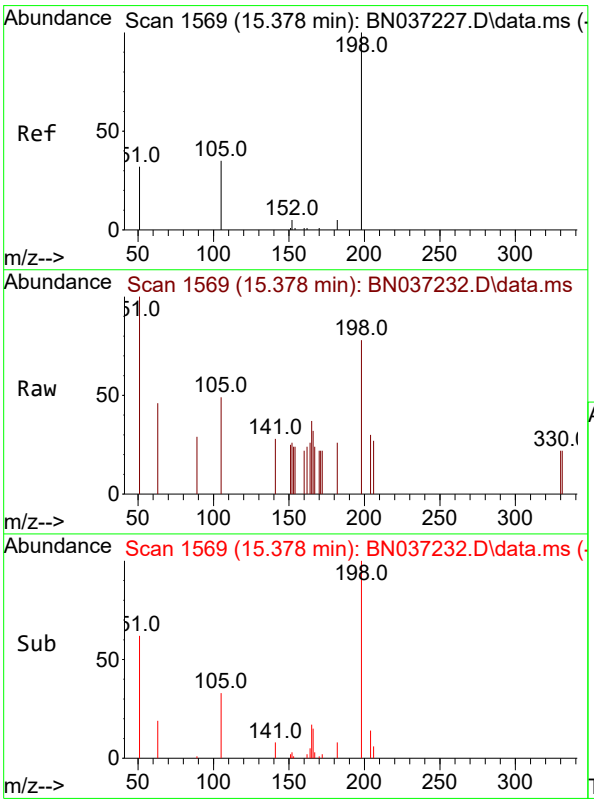
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

Instrument :
BNA_N
ClientSampleId :
ICVBN061325

Tgt Ion:188 Resp: 4515

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	15.7	12.2	18.4

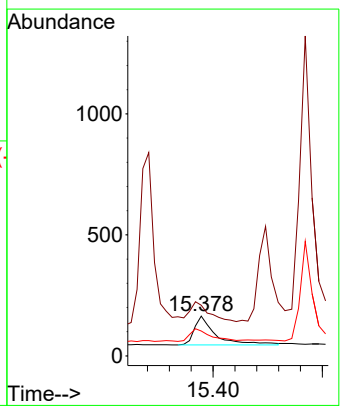


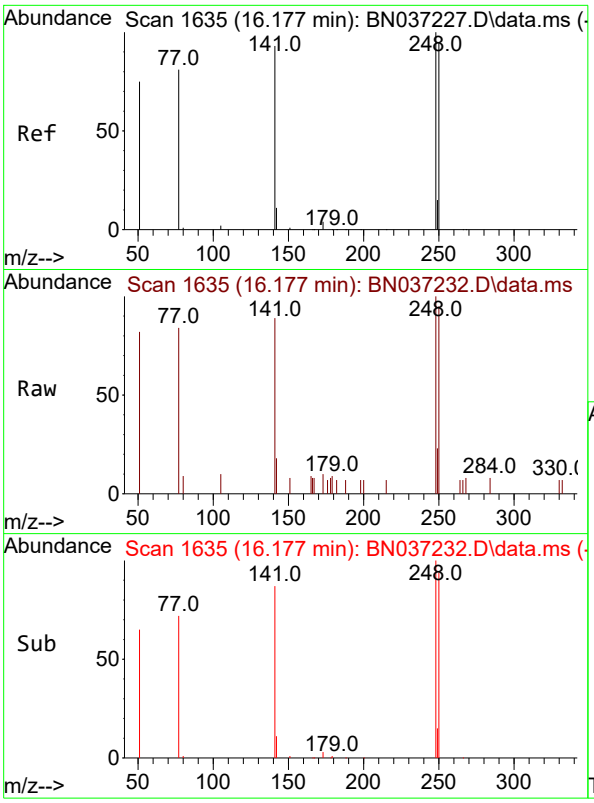


#20
4,6-Dinitro-2-methylphenol
Concen: 0.392 ng
RT: 15.378 min Scan# 1569
Delta R.T. 0.000 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

Tgt Ion:198 Resp: 326

Ion	Ratio	Lower	Upper
198	100		
51	127.4	111.2	166.8
105	62.8	54.0	81.0



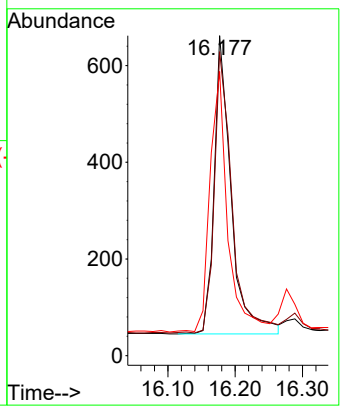


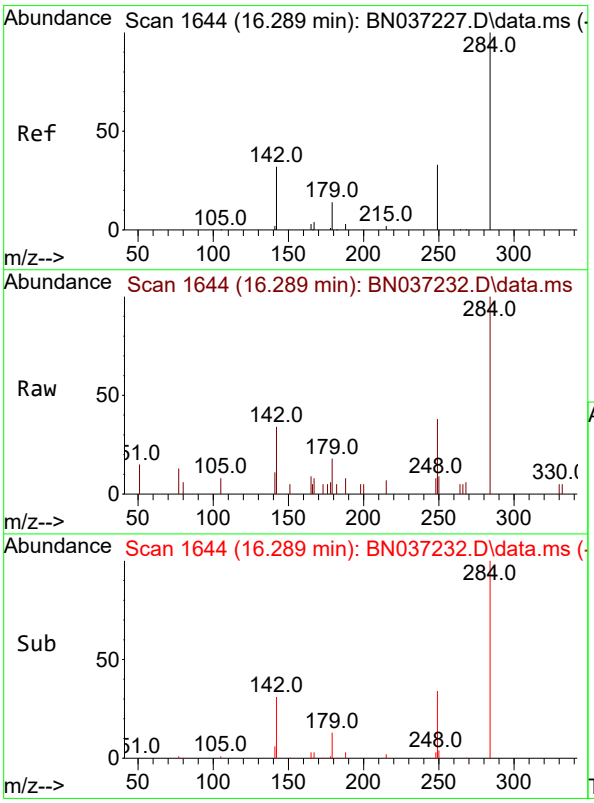
#21
4-Bromophenyl-phenylether
Concen: 0.368 ng
RT: 16.177 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

Instrument :
BNA_N
ClientSampleId :
ICVBN061325

Tgt Ion:248 Resp: 1082

Ion	Ratio	Lower	Upper
248	100		
250	95.0	76.8	115.2
141	88.8	75.6	113.4

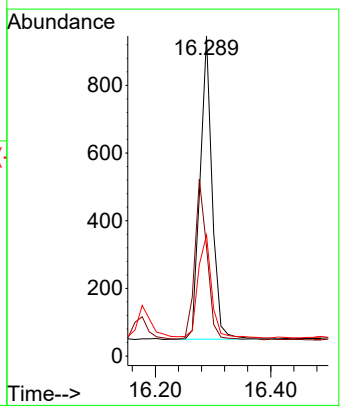


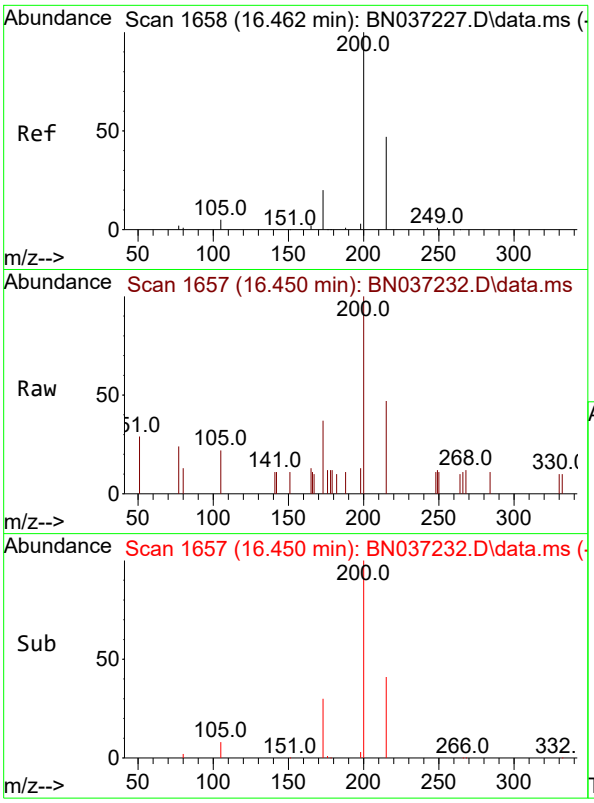


#22
Hexachlorobenzene
Concen: 0.380 ng
RT: 16.289 min Scan# 1644
Delta R.T. 0.000 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

Tgt Ion:284 Resp: 1296

Ion	Ratio	Lower	Upper
284	100		
142	55.1	43.8	65.6
249	38.3	28.4	42.6



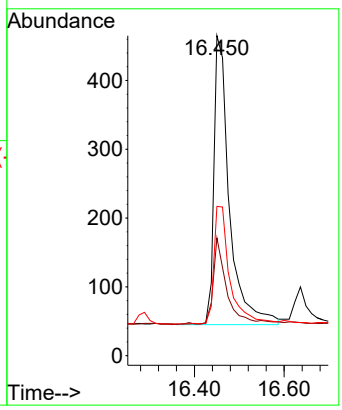


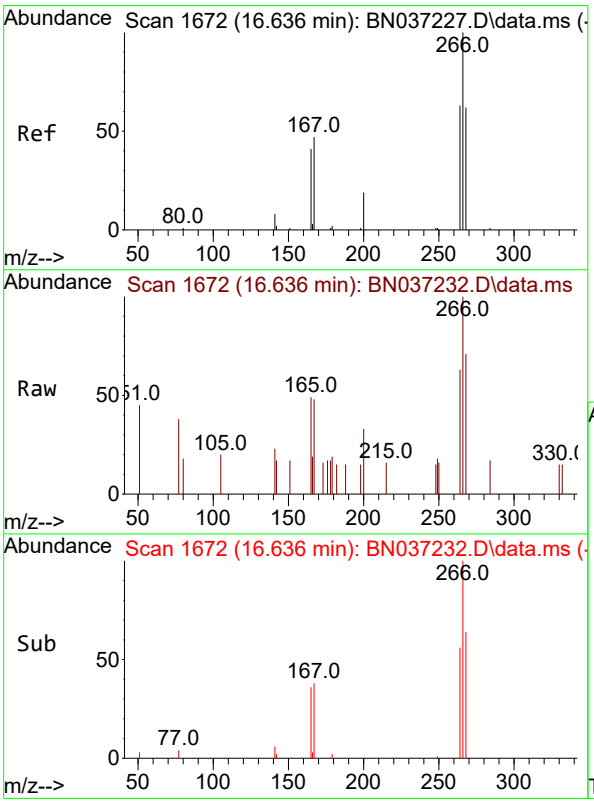
#23
Atrazine
Concen: 0.383 ng
RT: 16.450 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

Instrument :
BNA_N
ClientSampleId :
ICVBN061325

Tgt Ion:200 Resp: 1004

Ion	Ratio	Lower	Upper
200	100		
173	36.8	25.1	37.7
215	46.7	43.7	65.5

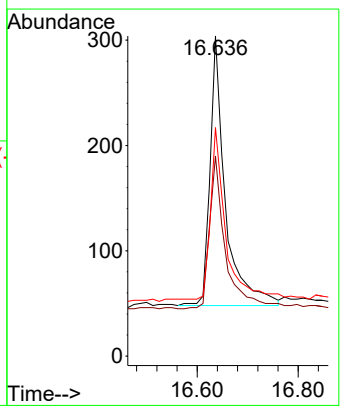


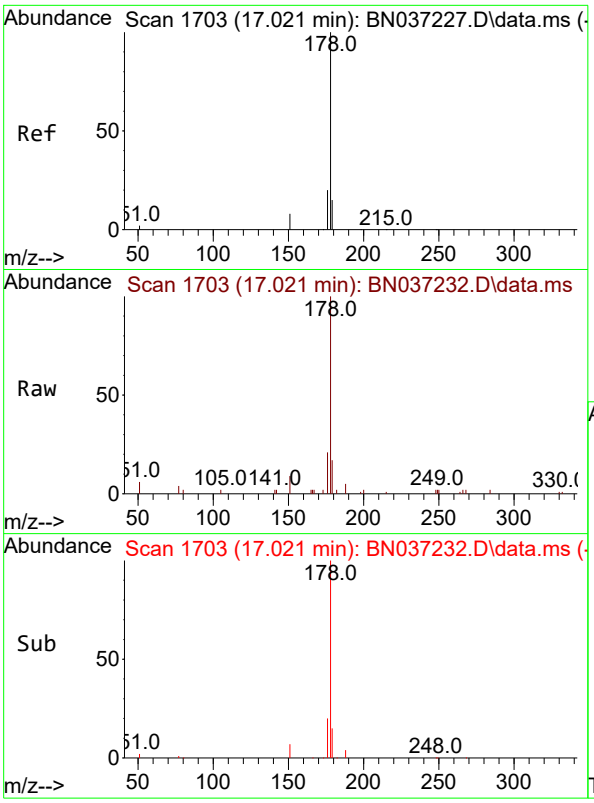


#24
Pentachlorophenol
Concen: 0.323 ng
RT: 16.636 min Scan# 1672
Delta R.T. 0.000 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

Tgt Ion:266 Resp: 540

Ion	Ratio	Lower	Upper
266	100		
264	59.1	49.2	73.8
268	62.0	53.4	80.2



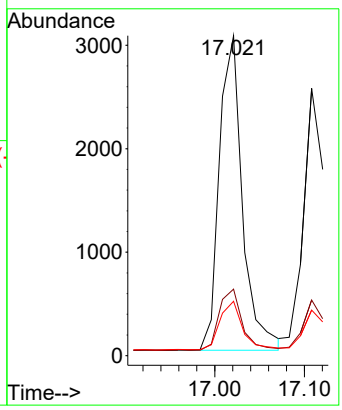


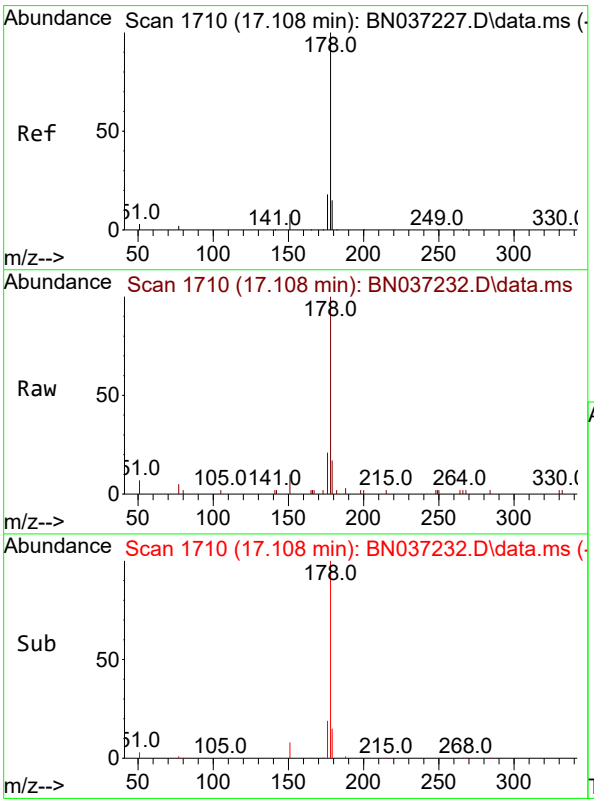
#25
Phenanthrene
Concen: 0.381 ng
RT: 17.021 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

Instrument :
BNA_N
ClientSampleId :
ICVBN061325

Tgt Ion:178 Resp: 5458

Ion	Ratio	Lower	Upper
178	100		
176	19.8	16.3	24.5
179	15.4	12.6	18.8

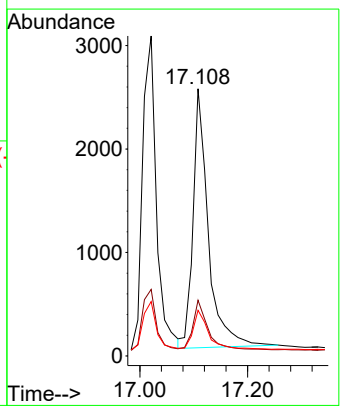


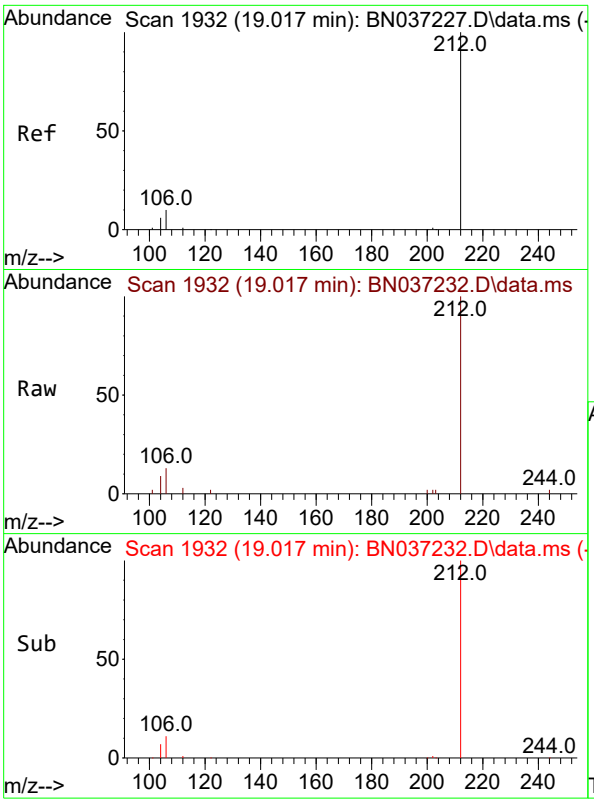


#26
Anthracene
Concen: 0.376 ng
RT: 17.108 min Scan# 1710
Delta R.T. 0.000 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

Tgt Ion:178 Resp: 4934

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.1	22.7
179	15.6	12.4	18.6



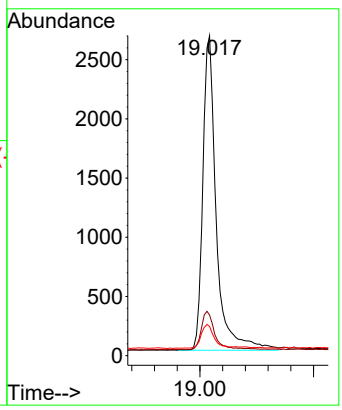


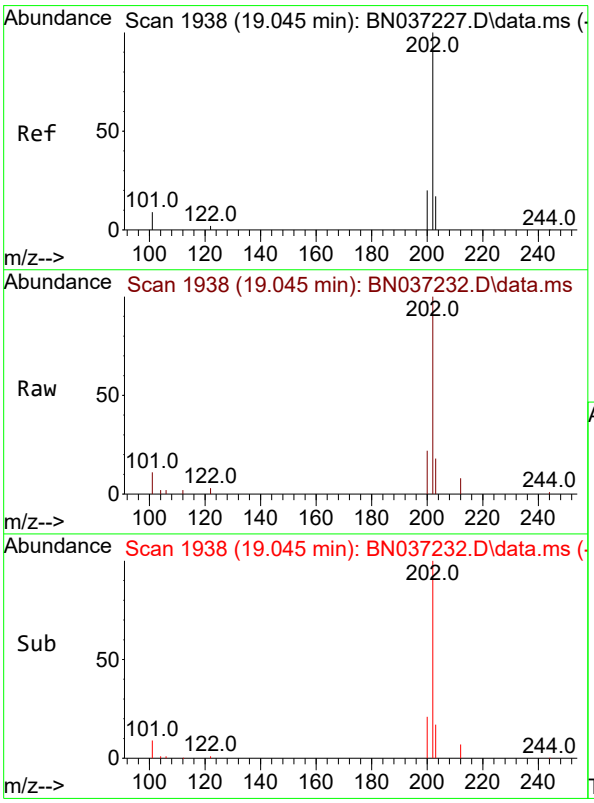
#27
Fluoranthene-d10
Concen: 0.369 ng
RT: 19.017 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

Instrument :
BNA_N
ClientSampleId :
ICVBN061325

Tgt Ion:212 Resp: 4358

Ion	Ratio	Lower	Upper
212	100		
106	12.4	9.3	13.9
104	7.2	5.7	8.5

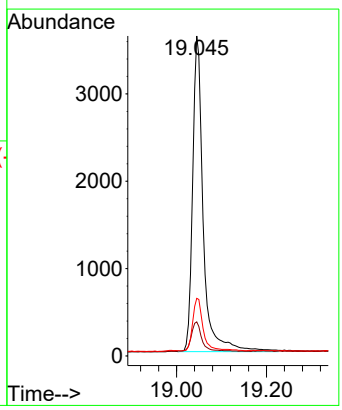


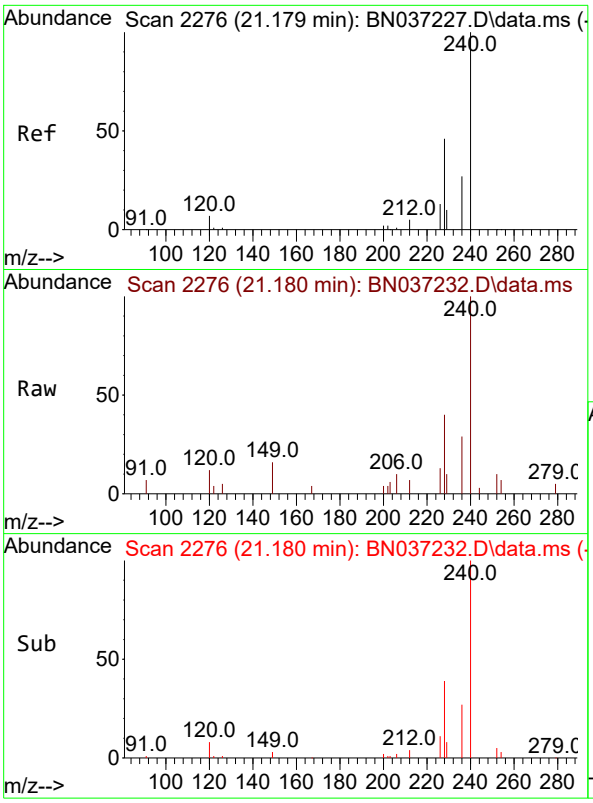


#28
Fluoranthene
Concen: 0.354 ng
RT: 19.045 min Scan# 1938
Delta R.T. 0.000 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

Tgt Ion:202 Resp: 5935

Ion	Ratio	Lower	Upper
202	100		
101	10.1	7.1	10.7
203	16.8	13.0	19.6



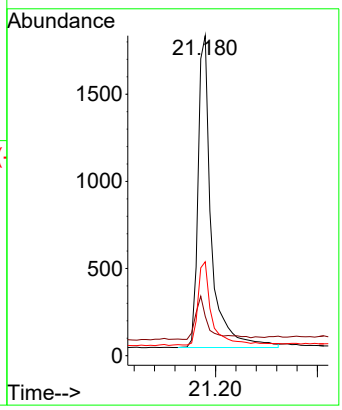


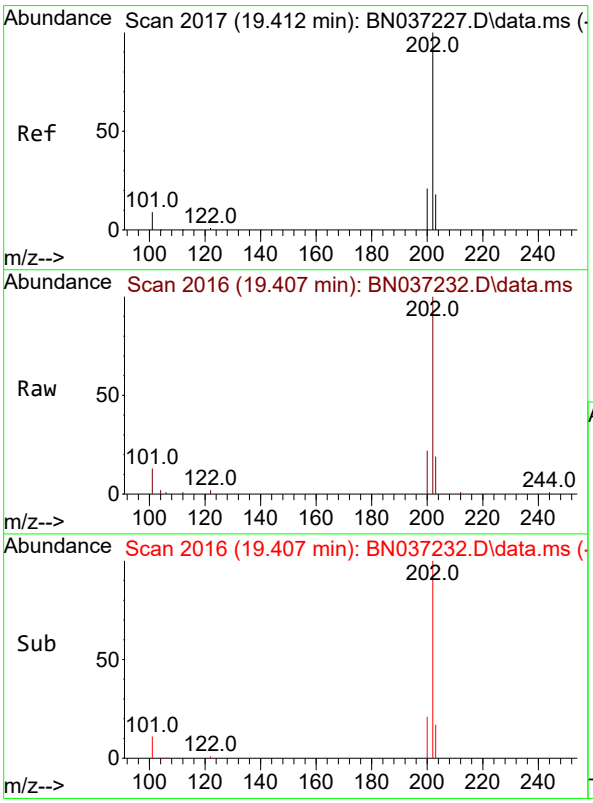
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.180 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

Instrument :
BNA_N
ClientSampleId :
ICVBN061325

Tgt Ion:240 Resp: 3230

Ion	Ratio	Lower	Upper
240	100		
120	12.3	11.3	16.9
236	29.4	24.4	36.6

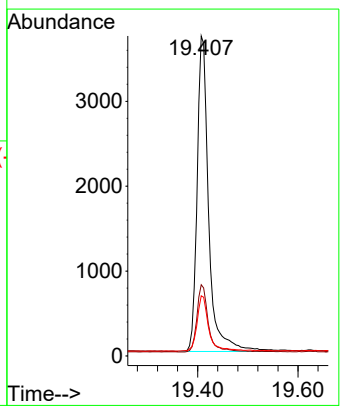


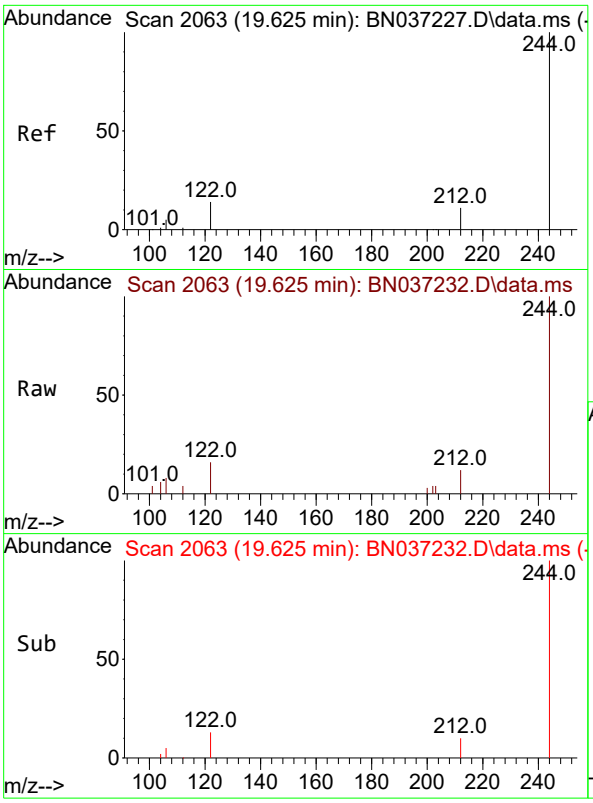


#30
Pyrene
Concen: 0.392 ng
RT: 19.407 min Scan# 2016
Delta R.T. -0.005 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

Tgt Ion:202 Resp: 5948

Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.2	25.8
203	17.7	14.3	21.5



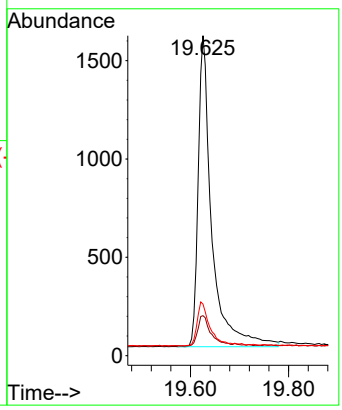


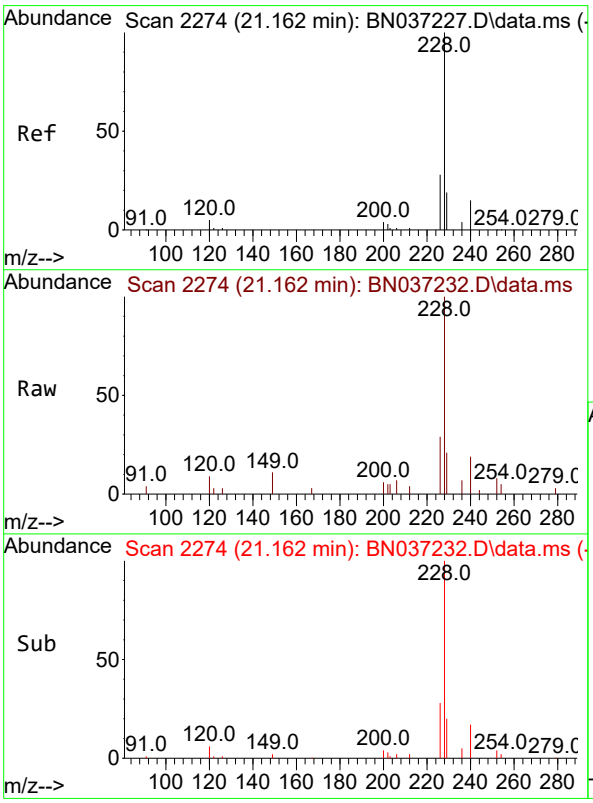
#31
Terphenyl-d14
Concen: 0.417 ng
RT: 19.625 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

Instrument :
BNA_N
ClientSampleId :
ICVBN061325

Tgt Ion:244 Resp: 3044

Ion	Ratio	Lower	Upper
244	100		
212	12.5	12.2	18.2
122	16.1	14.3	21.5

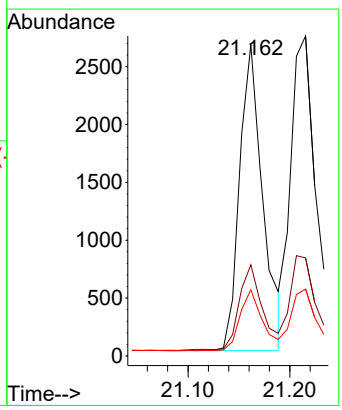


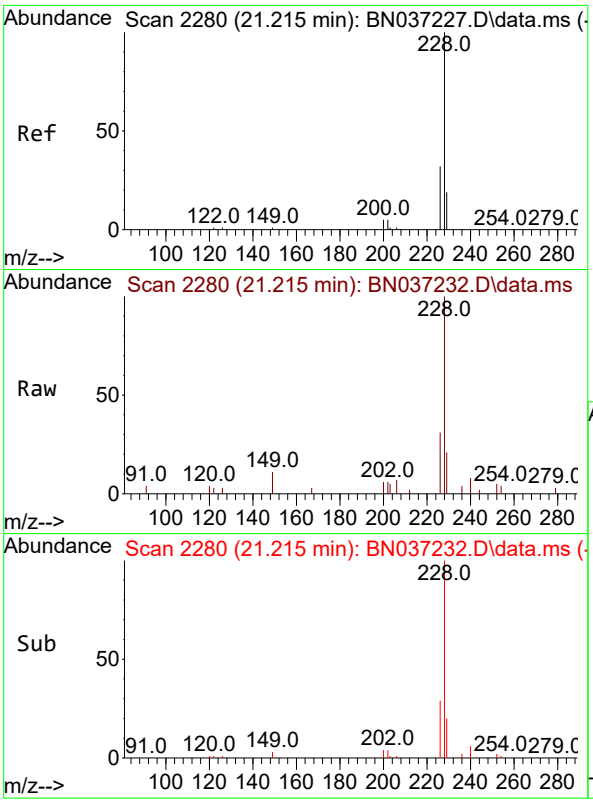


#32
Benzo(a)anthracene
Concen: 0.384 ng
RT: 21.162 min Scan# 2274
Delta R.T. 0.000 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

Tgt Ion:228 Resp: 4183

Ion	Ratio	Lower	Upper
228	100		
226	29.3	23.8	35.8
229	21.2	17.0	25.4



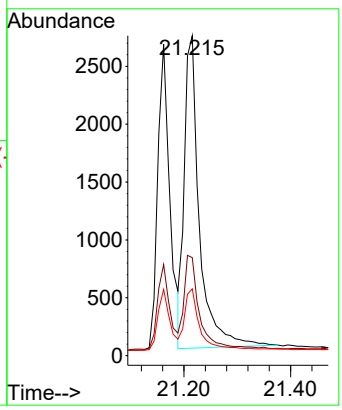


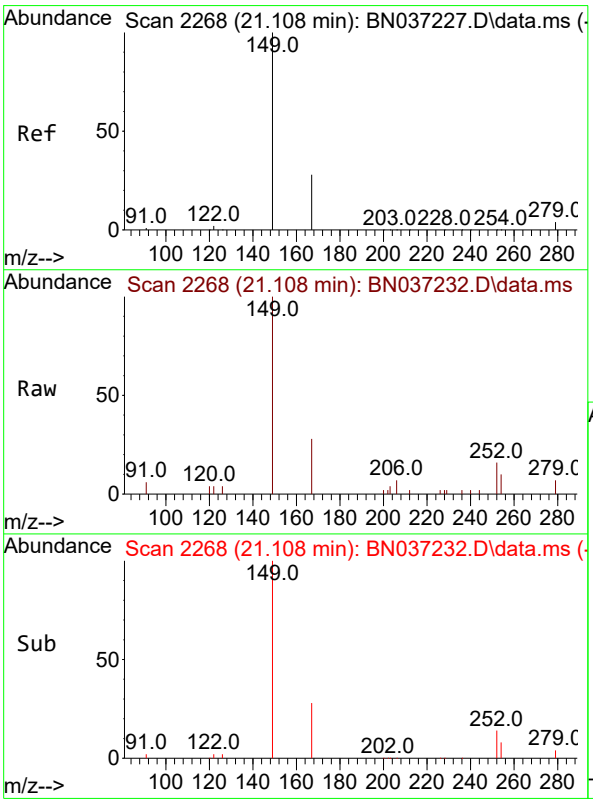
#33
Chrysene
Concen: 0.390 ng
RT: 21.215 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

Instrument :
BNA_N
ClientSampleId :
ICVBN061325

Tgt Ion:228 Resp: 5302

Ion	Ratio	Lower	Upper
228	100		
226	30.6	25.8	38.6
229	20.9	17.0	25.4

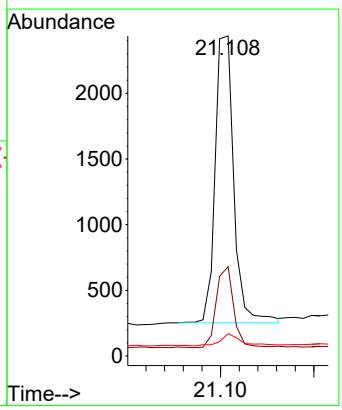


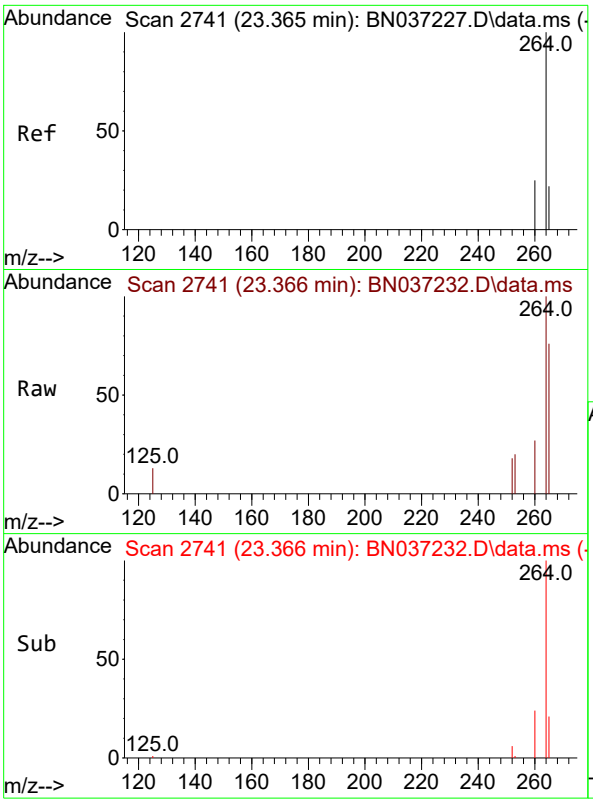


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.373 ng
RT: 21.108 min Scan# 2268
Delta R.T. 0.000 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

Tgt Ion:149 Resp: 3027

Ion	Ratio	Lower	Upper
149	100		
167	26.6	21.3	31.9
279	4.7	3.3	4.9



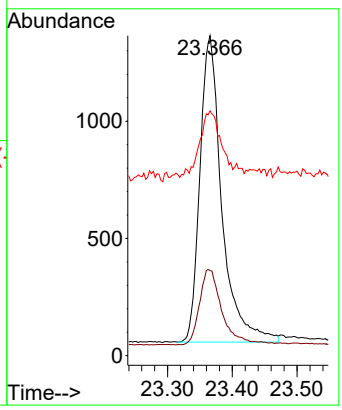


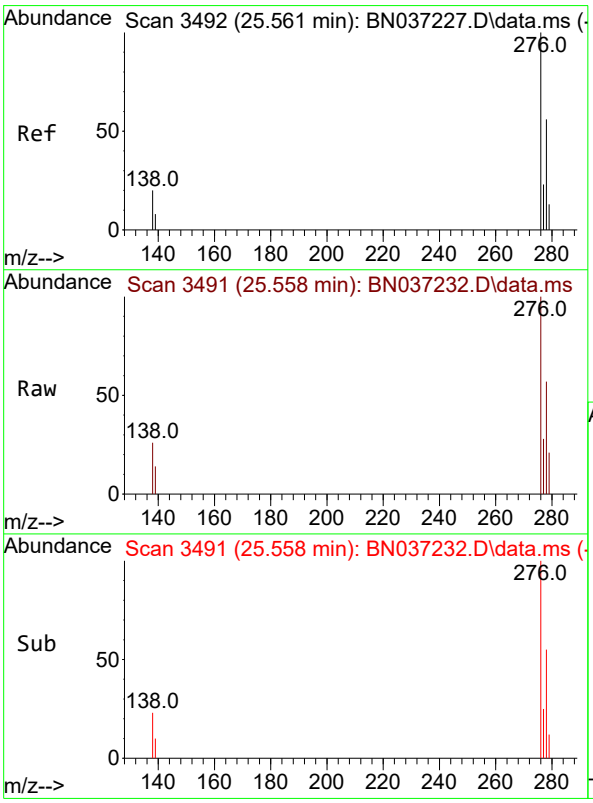
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.366 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

Instrument :
BNA_N
ClientSampleId :
ICVBN061325

Tgt Ion:264 Resp: 3076

Ion	Ratio	Lower	Upper
264	100		
260	26.6	22.8	34.2
265	76.5	66.4	99.6

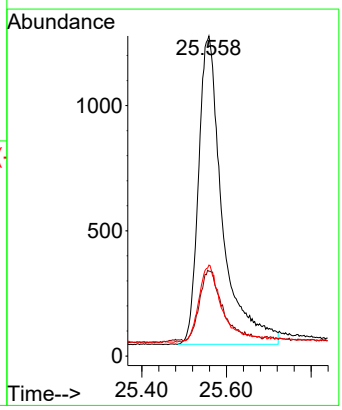


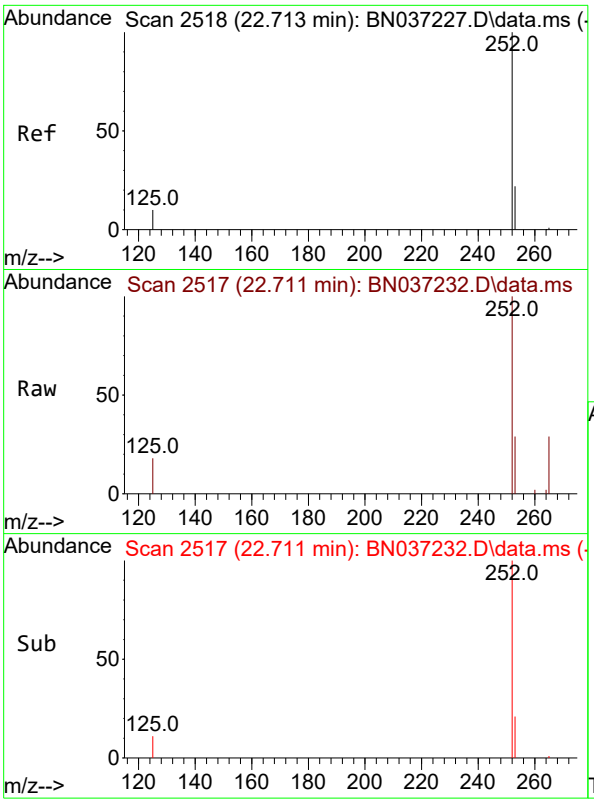


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.389 ng
RT: 25.558 min Scan# 3491
Delta R.T. -0.003 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

Tgt Ion:276 Resp: 4825

Ion	Ratio	Lower	Upper
276	100		
138	21.3	16.8	25.2
277	23.4	19.5	29.3



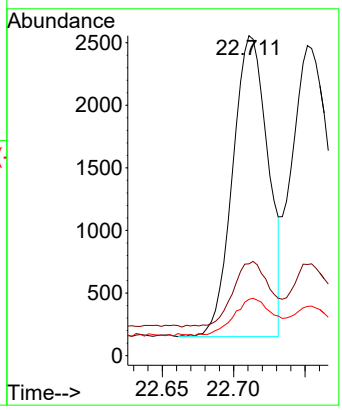


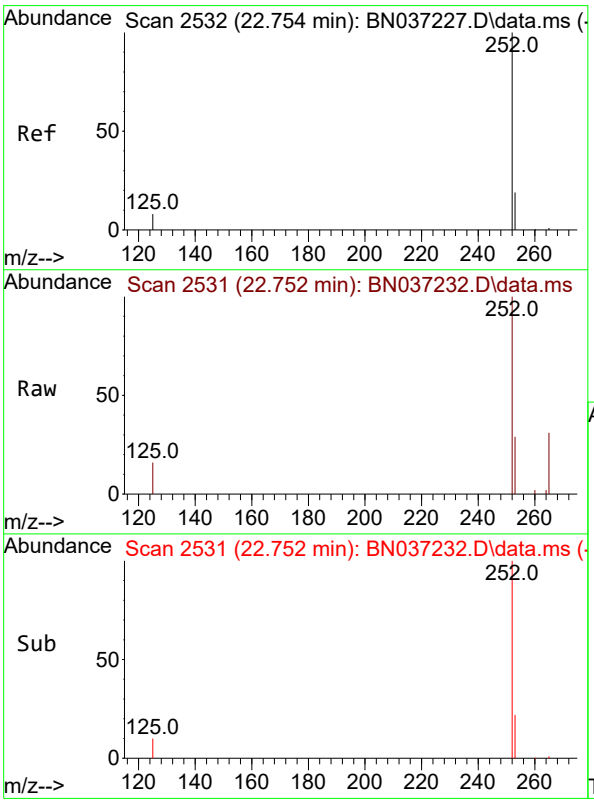
#37
Benzo(b)fluoranthene
Concen: 0.366 ng
RT: 22.711 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

Instrument :
BNA_N
ClientSampleId :
ICVBN061325

Tgt Ion:252 Resp: 4122

Ion	Ratio	Lower	Upper
252	100		
253	28.7	24.9	37.3
125	17.6	12.9	19.3

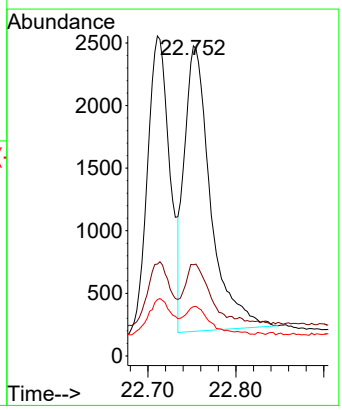


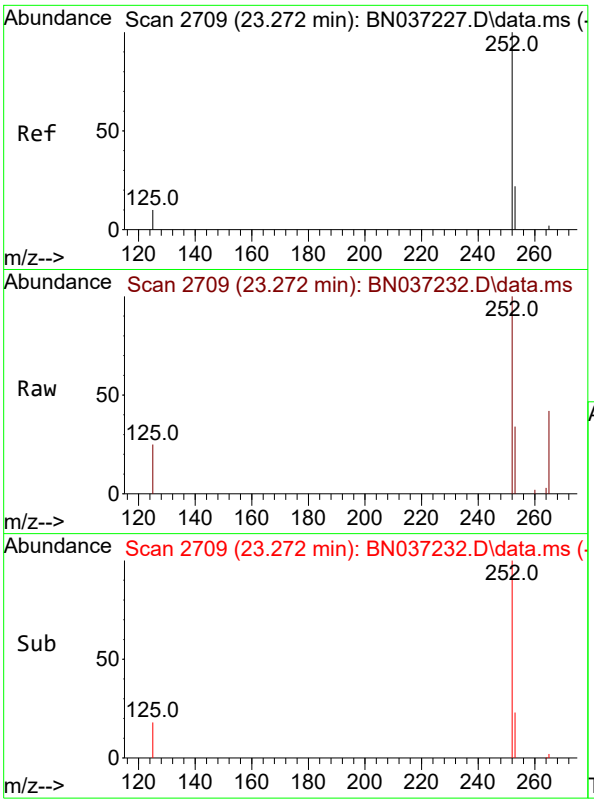


#38
Benzo(k)fluoranthene
Concen: 0.363 ng
RT: 22.752 min Scan# 2531
Delta R.T. -0.003 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

Tgt Ion:252 Resp: 4721

Ion	Ratio	Lower	Upper
252	100		
253	29.4	24.6	37.0
125	15.9	13.4	20.2



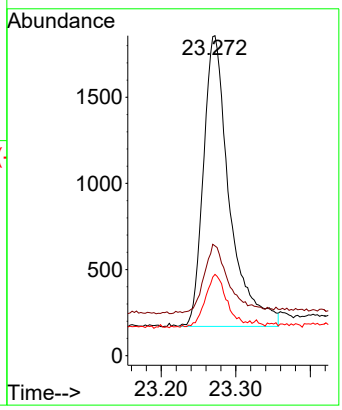


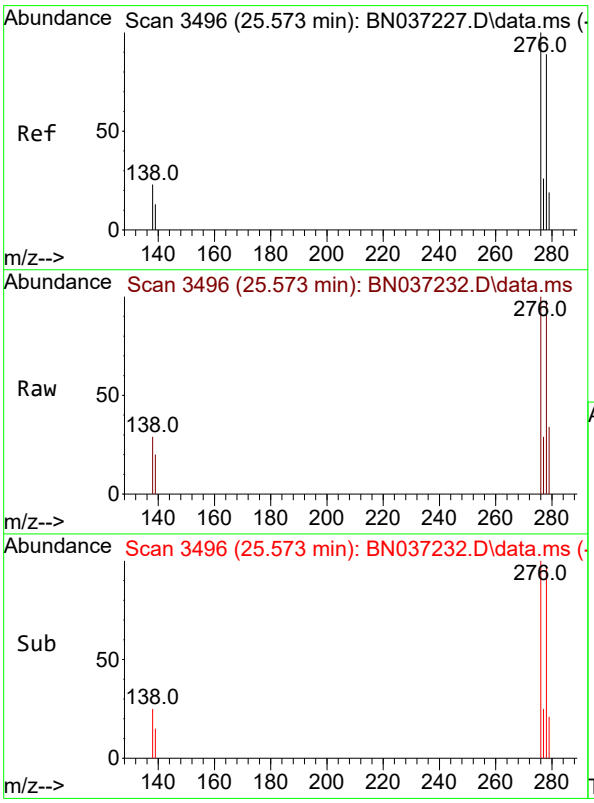
#39
Benzo(a)pyrene
Concen: 0.404 ng
RT: 23.272 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

Instrument :
BNA_N
ClientSampleId :
ICVBN061325

Tgt Ion:252 Resp: 4086

Ion	Ratio	Lower	Upper
252	100		
253	34.3	29.4	44.2
125	25.4	16.2	24.2#

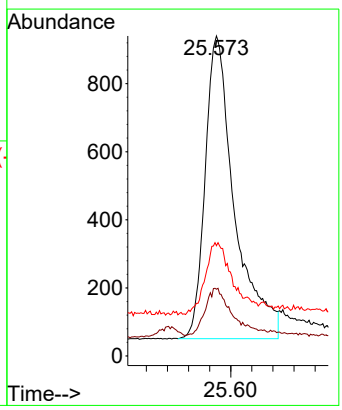


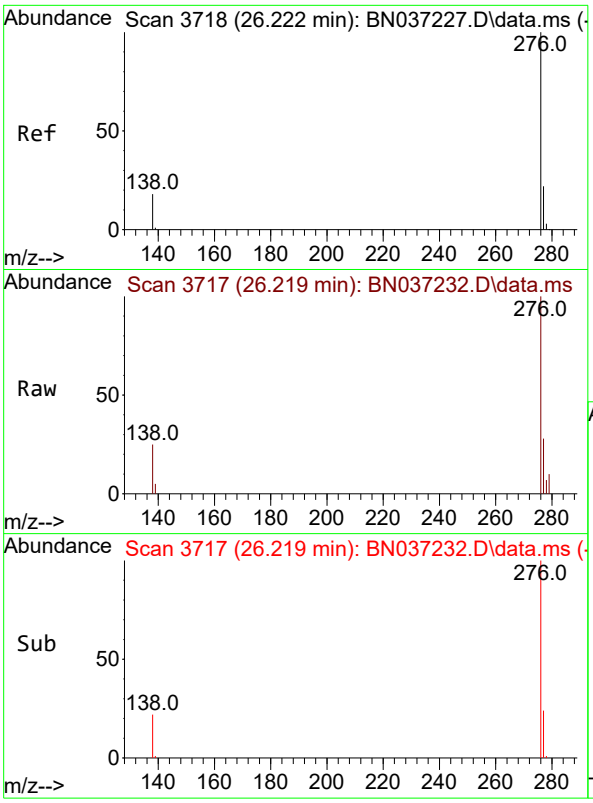


#40
Dibenzo(a,h)anthracene
Concen: 0.365 ng
RT: 25.573 min Scan# 3496
Delta R.T. 0.000 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

Tgt Ion:278 Resp: 3443

Ion	Ratio	Lower	Upper
278	100		
139	20.9	17.8	26.6
279	34.5	31.3	46.9



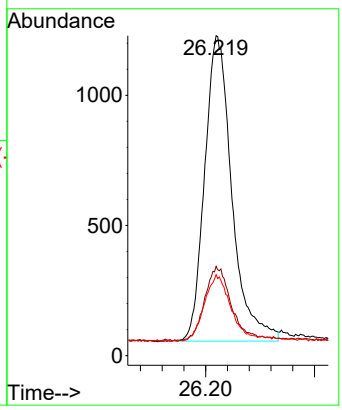


#41
Benzo(g,h,i)perylene
Concen: 0.354 ng
RT: 26.219 min Scan# 3
Delta R.T. -0.003 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

Instrument :
BNA_N
ClientSampleId :
ICVBN061325

Tgt Ion:276 Resp: 4068

Ion	Ratio	Lower	Upper
276	100		
277	27.9	22.0	33.0
138	25.3	18.4	27.6



Evaluate Continuing Calibration Report

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037232.D
Acq On : 13 Jun 2025 17:47
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN061325

Quant Time: Jun 13 18:44:16 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 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	154#	0.00
2		1,4-Dioxane	0.549	0.551	-0.4	162#	0.00
3		n-Nitrosodimethylamine	1.250	1.137	9.0	137	0.00
4	S	2-Fluorophenol	0.982	0.864	12.0	142	0.00
5	S	Phenol-d6	1.035	0.931	10.0	149	0.00
6		bis(2-Chloroethyl)ether	0.927	1.062	-14.6	188#	0.00
7	I	Naphthalene-d8	1.000	1.000	0.0	153#	-0.01
8	S	Nitrobenzene-d5	0.395	0.406	-2.8	161#	0.00
9		Naphthalene	1.158	1.119	3.4	151#	0.00
10		Hexachlorobutadiene	0.282	0.269	4.6	136	0.00
11	SURR	2-Methylnaphthalene-d10	0.537	0.533	0.7	146	0.00
12		2-Methylnaphthalene	0.704	0.627	10.9	136	0.00
13	I	Acenaphthene-d10	1.000	1.000	0.0	147	0.00
14	S	2,4,6-Tribromophenol	0.166	0.128	22.9	110	0.00
15	S	2-Fluorobiphenyl	1.681	1.735	-3.2	150	0.00
16		Acenaphthylene	1.960	2.002	-2.1	157#	0.00
17		Acenaphthene	1.265	1.195	5.5	142	0.00
18		Fluorene	1.625	1.499	7.8	138	0.00
19	I	Phenanthrene-d10	1.000	1.000	0.0	141	0.00
20		4,6-Dinitro-2-methylphenol	0.092	0.072	21.7	155#	0.00
21		4-Bromophenyl-phenylether	0.261	0.240	8.0	139	0.00
22		Hexachlorobenzene	0.302	0.287	5.0	130	0.00
23		Atrazine	0.232	0.222	4.3	141	-0.01
24		Pentachlorophenol	0.148	0.120	18.9	136	0.00
25		Phenanthrene	1.269	1.209	4.7	144	0.00
26		Anthracene	1.161	1.093	5.9	143	0.00
27	SURR	Fluoranthene-d10	1.046	0.965	7.7	130	0.00
28		Fluoranthene	1.485	1.315	11.4	132	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	141	0.00
30		Pyrene	1.881	1.841	2.1	133	0.00
31	S	Terphenyl-d14	0.904	0.942	-4.2	141	0.00
32		Benzo(a)anthracene	1.351	1.295	4.1	149	0.00
33		Chrysene	1.683	1.641	2.5	137	0.00
34		Bis(2-ethylhexyl)phthalate	1.006	0.937	6.9	129	0.00
35	I	Perylene-d12	1.000	1.000	0.0	143	0.00
36		Indeno(1,2,3-cd)pyrene	1.613	1.569	2.7	149	0.00
37		Benzo(b)fluoranthene	1.463	1.340	8.4	139	0.00
38		Benzo(k)fluoranthene	1.689	1.535	9.1	135	0.00
39	C	Benzo(a)pyrene	1.316	1.328	-0.9	154#	0.00
40		Dibenzo(a,h)anthracene	1.227	1.119	8.8	153#	0.00
41		Benzo(g,h,i)perylene	1.496	1.322	11.6	131	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037232.D
Acq On : 13 Jun 2025 17:47
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN061325

Quant Time: Jun 13 18:44:16 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 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	0.400	0.400	0.0	154	0.00
2		1,4-Dioxane	0.400	0.402	-0.5	162	0.00
3		n-Nitrosodimethylamine	0.400	0.364	9.0	137	0.00
4	S	2-Fluorophenol	0.400	0.352	12.0	142	0.00
5	S	Phenol-d6	0.400	0.360	10.0	149	0.00
6		bis(2-Chloroethyl)ether	0.400	0.458	-14.5	188	0.00
7	I	Naphthalene-d8	0.400	0.400	0.0	153	-0.01
8	S	Nitrobenzene-d5	0.400	0.410	-2.5	161	0.00
9		Naphthalene	0.400	0.386	3.5	151	0.00
10		Hexachlorobutadiene	0.400	0.382	4.5	136	0.00
11	SURR	2-Methylnaphthalene-d10	0.400	0.398	0.5	146	0.00
12		2-Methylnaphthalene	0.400	0.356	11.0	136	0.00
13	I	Acenaphthene-d10	0.400	0.400	0.0	147	0.00
14	S	2,4,6-Tribromophenol	0.400	0.308	23.0	110	0.00
15	S	2-Fluorobiphenyl	0.400	0.413	-3.2	150	0.00
16		Acenaphthylene	0.400	0.409	-2.2	157	0.00
17		Acenaphthene	0.400	0.378	5.5	142	0.00
18		Fluorene	0.400	0.369	7.8	138	0.00
19	I	Phenanthrene-d10	0.400	0.400	0.0	141	0.00
20		4,6-Dinitro-2-methylphenol	0.400	0.392	2.0	155	0.00
21		4-Bromophenyl-phenylether	0.400	0.368	8.0	139	0.00
22		Hexachlorobenzene	0.400	0.380	5.0	130	0.00
23		Atrazine	0.400	0.383	4.3	141	-0.01
24		Pentachlorophenol	0.400	0.323	19.3	136	0.00
25		Phenanthrene	0.400	0.381	4.8	144	0.00
26		Anthracene	0.400	0.376	6.0	143	0.00
27	SURR	Fluoranthene-d10	0.400	0.369	7.8	130	0.00
28		Fluoranthene	0.400	0.354	11.5	132	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	141	0.00
30		Pyrene	0.400	0.392	2.0	133	0.00
31	S	Terphenyl-d14	0.400	0.417	-4.2	141	0.00
32		Benzo(a)anthracene	0.400	0.384	4.0	149	0.00
33		Chrysene	0.400	0.390	2.5	137	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.373	6.8	129	0.00
35	I	Perylene-d12	0.400	0.400	0.0	143	0.00
36		Indeno(1,2,3-cd)pyrene	0.400	0.389	2.8	149	0.00
37		Benzo(b)fluoranthene	0.400	0.366	8.5	139	0.00
38		Benzo(k)fluoranthene	0.400	0.363	9.3	135	0.00
39	C	Benzo(a)pyrene	0.400	0.404	-1.0	154	0.00
40		Dibenzo(a,h)anthracene	0.400	0.365	8.8	153	0.00
41		Benzo(g,h,i)perylene	0.400	0.354	11.5	131	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q2299 SAS No.: Q2299 SDG No.: Q2299

Instrument ID: BNA_N Calibration Date/Time: 06/13/2025 23:55

Lab File ID: BN037240.D Init. Calib. Date(s): 06/13/2025 06/13/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 13:33 17:11

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.537	0.559		4.1	20.0
Fluoranthene-d10	1.047	1.058		1.1	20.0
2-Fluorophenol	0.982	0.884		-10.0	20.0
Phenol-d6	1.035	0.970		-6.3	20.0
Nitrobenzene-d5	0.395	0.404		2.3	20.0
2-Fluorobiphenyl	1.681	1.759		4.6	20.0
2,4,6-Tribromophenol	0.166	0.171		3.0	20.0
Terphenyl-d14	0.904	0.889		-1.7	20.0
1,4-Dioxane	0.549	0.484		-11.8	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037240.D
Acq On : 13 Jun 2025 23:55
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Jun 14 02:05:21 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration

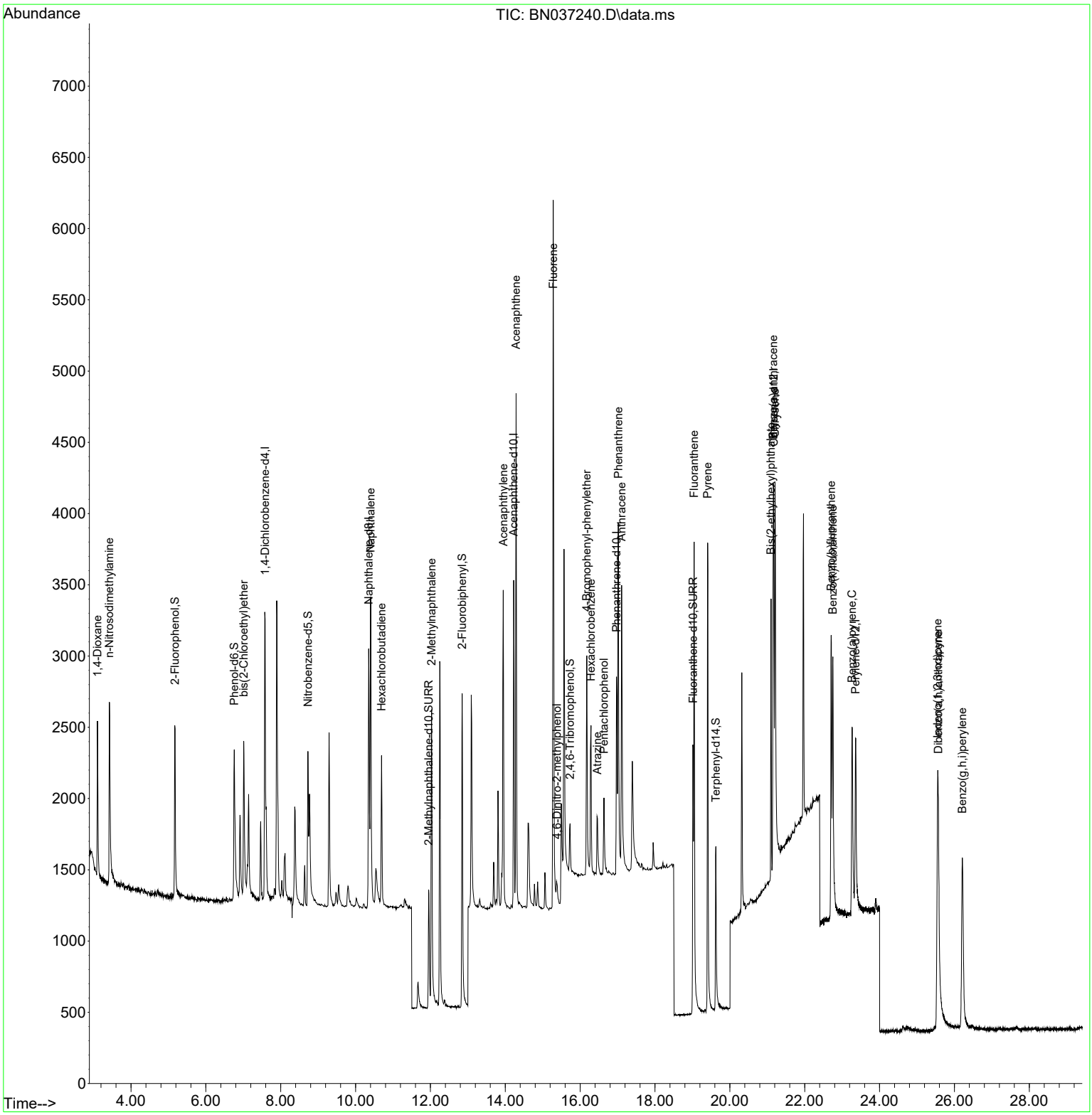
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.582	152	1101	0.400	ng		0.00
7) Naphthalene-d8	10.351	136	2581	0.400	ng		#-0.01
13) Acenaphthene-d10	14.224	164	1319	0.400	ng		0.00
19) Phenanthrene-d10	16.971	188	2396	0.400	ng		0.00
29) Chrysene-d12	21.171	240	1787	0.400	ng		# 0.00
35) Perylene-d12	23.360	264	1797	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.177	112	973	0.360	ng		0.00
5) Phenol-d6	6.759	99	1068	0.375	ng		0.00
8) Nitrobenzene-d5	8.728	82	1042	0.408	ng		0.00
11) 2-Methylnaphthalene-d10	11.955	152	1443	0.417	ng		0.00
14) 2,4,6-Tribromophenol	15.730	330	226	0.413	ng		0.00
15) 2-Fluorobiphenyl	12.848	172	2320	0.419	ng		0.00
27) Fluoranthene-d10	19.017	212	2535	0.404	ng		0.00
31) Terphenyl-d14	19.625	244	1588	0.393	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.104	88	533	0.353	ng		99
3) n-Nitrosodimethylamine	3.422	42	1393	0.405	ng	#	94
6) bis(2-Chloroethyl)ether	7.012	93	1005	0.394	ng		92
9) Naphthalene	10.404	128	2951	0.395	ng		98
10) Hexachlorobutadiene	10.693	225	755	0.415	ng	#	97
12) 2-Methylnaphthalene	12.031	142	1743	0.384	ng		99
16) Acenaphthylene	13.946	152	2529	0.391	ng		98
17) Acenaphthene	14.288	154	1605	0.385	ng		98
18) Fluorene	15.282	166	2071	0.386	ng		100
20) 4,6-Dinitro-2-methylph...	15.378	198	193	0.423	ng		93
21) 4-Bromophenyl-phenylether	16.177	248	591	0.379	ng		97
22) Hexachlorobenzene	16.289	284	711	0.393	ng		95
23) Atrazine	16.463	200	518	0.372	ng		97
24) Pentachlorophenol	16.636	266	337	0.380	ng		96
25) Phenanthrene	17.021	178	2895	0.381	ng		98
26) Anthracene	17.108	178	2630	0.378	ng		98
28) Fluoranthene	19.045	202	3316	0.373	ng		98
30) Pyrene	19.407	202	3339	0.397	ng		98
32) Benzo(a)anthracene	21.162	228	2395	0.397	ng		99
33) Chrysene	21.207	228	2954	0.393	ng		99
34) Bis(2-ethylhexyl)phtha...	21.099	149	1731	0.385	ng		100
36) Indeno(1,2,3-cd)pyrene	25.550	276	2982	0.412	ng		98
37) Benzo(b)fluoranthene	22.708	252	2552	0.388	ng		97
38) Benzo(k)fluoranthene	22.749	252	2779	0.366	ng		96
39) Benzo(a)pyrene	23.266	252	2340	0.396	ng	#	94
40) Dibenzo(a,h)anthracene	25.570	278	2263	0.411	ng		98
41) Benzo(g,h,i)perylene	26.210	276	2727	0.406	ng		99

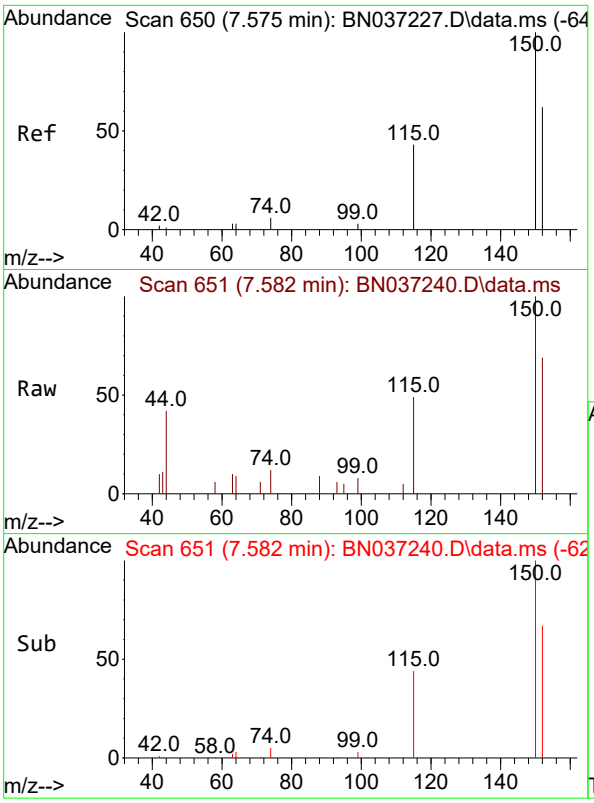
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037240.D
Acq On : 13 Jun 2025 23:55
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Jun 14 02:05:21 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration



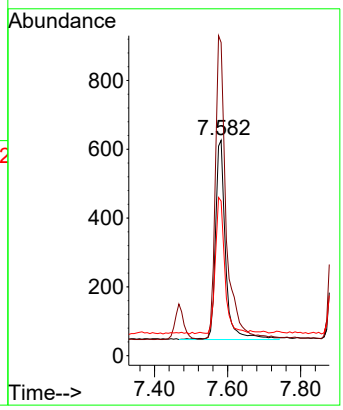


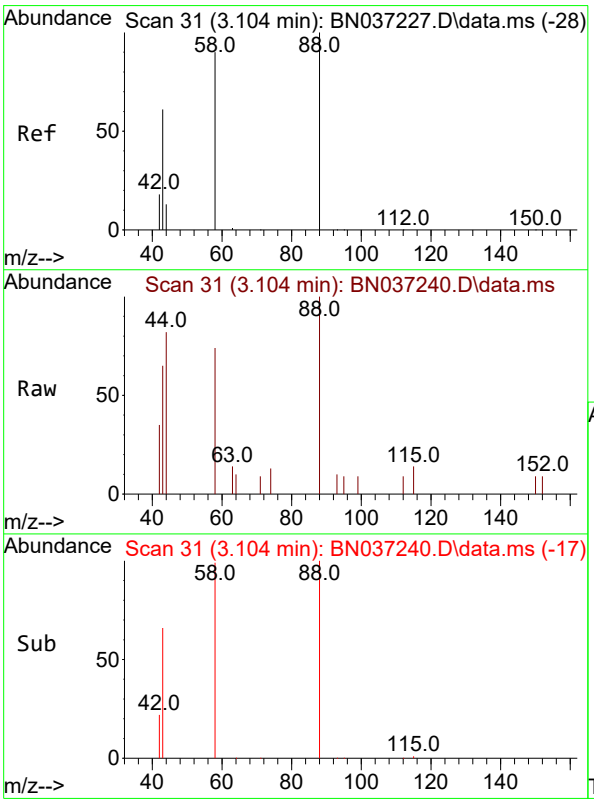
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.582 min Scan# 6
Delta R.T. 0.007 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 1101

Ion	Ratio	Lower	Upper
152	100		
150	145.4	125.2	187.8
115	71.7	58.4	87.6

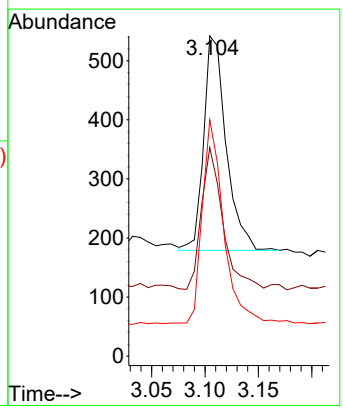


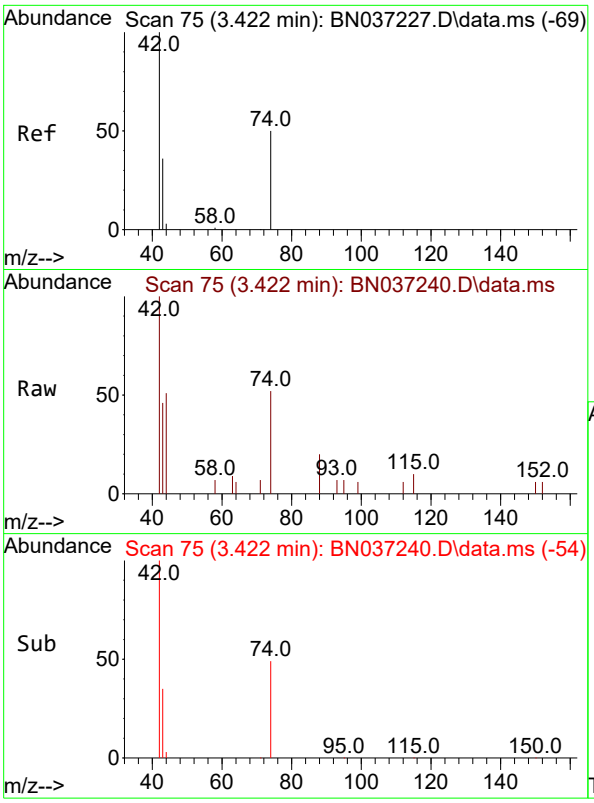


#2
1,4-Dioxane
Concen: 0.353 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

Tgt Ion: 88 Resp: 533

Ion	Ratio	Lower	Upper
88	100		
43	65.1	52.6	79.0
58	90.2	73.5	110.3



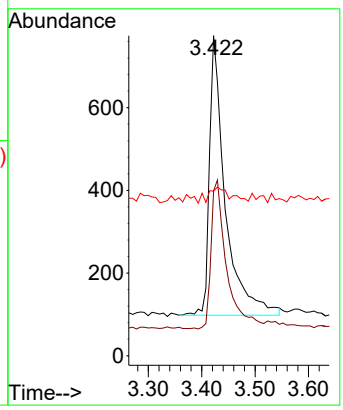


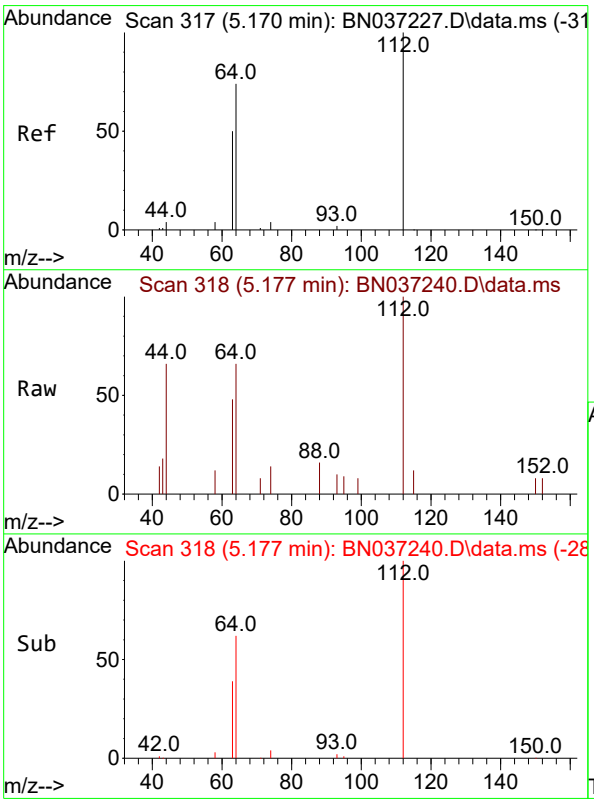
#3
n-Nitrosodimethylamine
Concen: 0.405 ng
RT: 3.422 min Scan# 7
Delta R.T. 0.000 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 42 Resp: 1393

Ion	Ratio	Lower	Upper
42	100		
74	51.8	44.6	66.8
44	8.1	3.5	5.3#

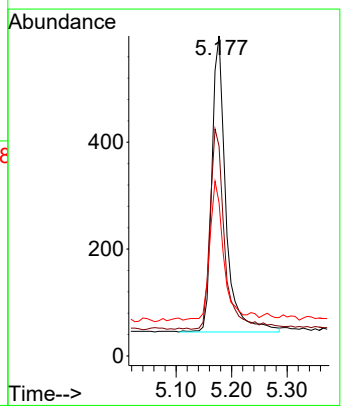


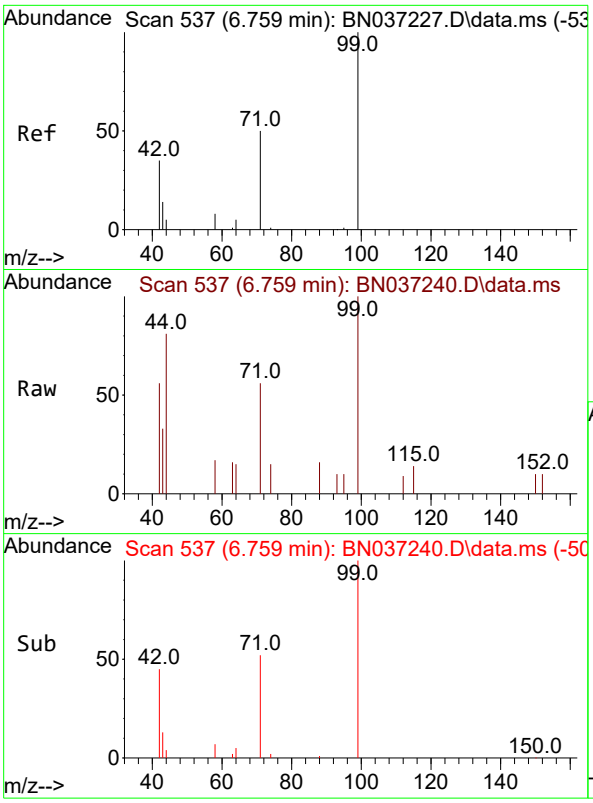


#4
2-Fluorophenol
Concen: 0.360 ng
RT: 5.177 min Scan# 318
Delta R.T. 0.007 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

Tgt Ion:112 Resp: 973

Ion	Ratio	Lower	Upper
112	100		
64	71.5	57.2	85.8
63	46.1	39.8	59.6



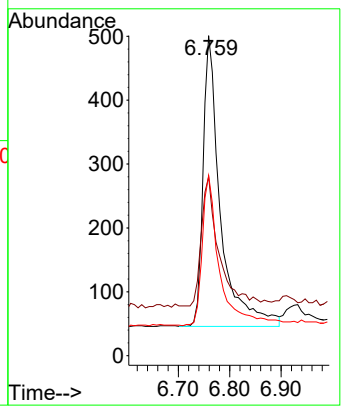


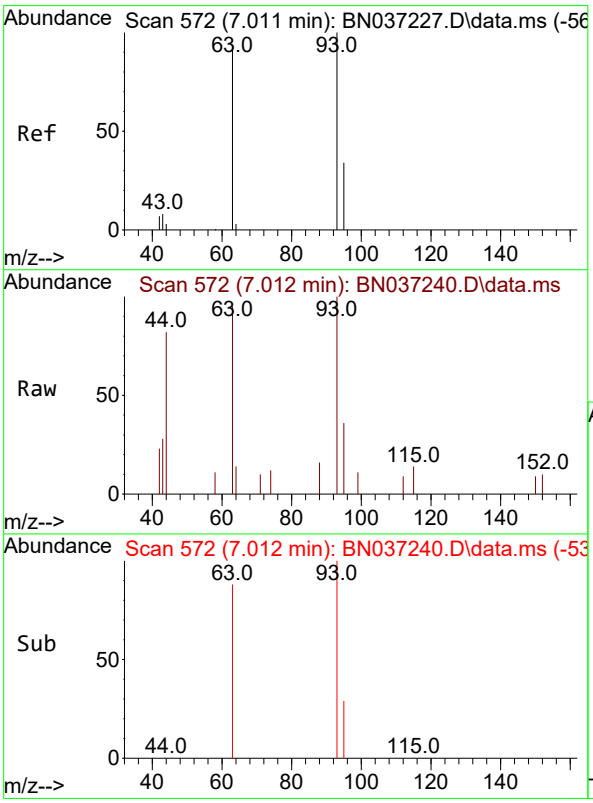
#5
Phenol-d6
Concen: 0.375 ng
RT: 6.759 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 99 Resp: 1068

Ion	Ratio	Lower	Upper
99	100		
42	45.7	36.2	54.4
71	52.2	42.4	63.6

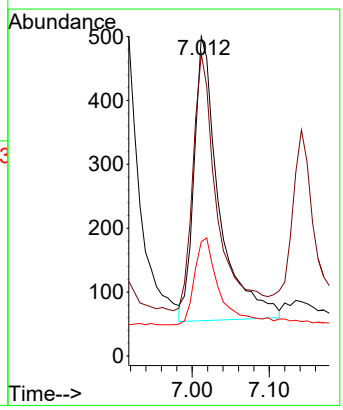


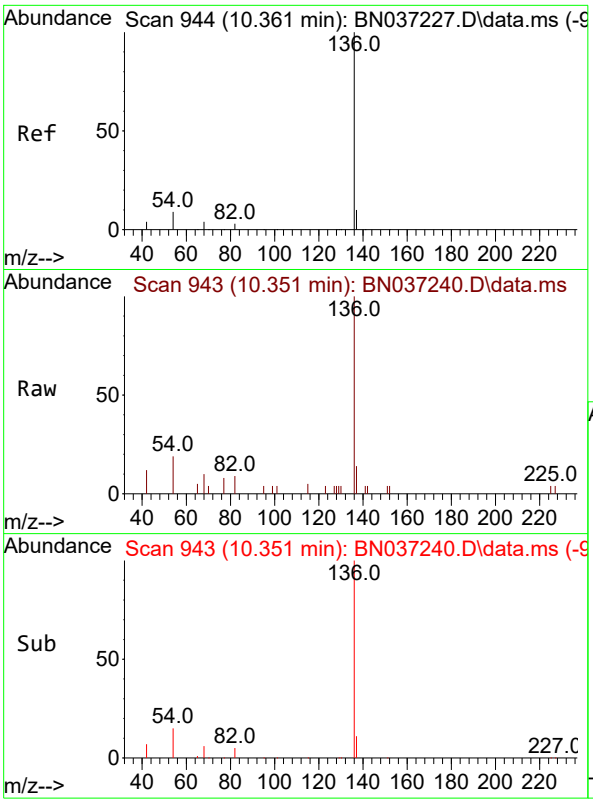


#6
bis(2-Chloroethyl)ether
Concen: 0.394 ng
RT: 7.012 min Scan# 572
Delta R.T. 0.000 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

Tgt Ion: 93 Resp: 1005

Ion	Ratio	Lower	Upper
93	100		
63	86.4	75.2	112.8
95	30.5	28.3	42.5



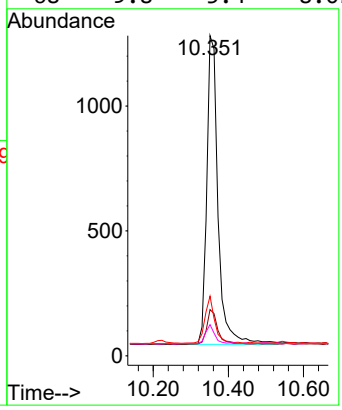


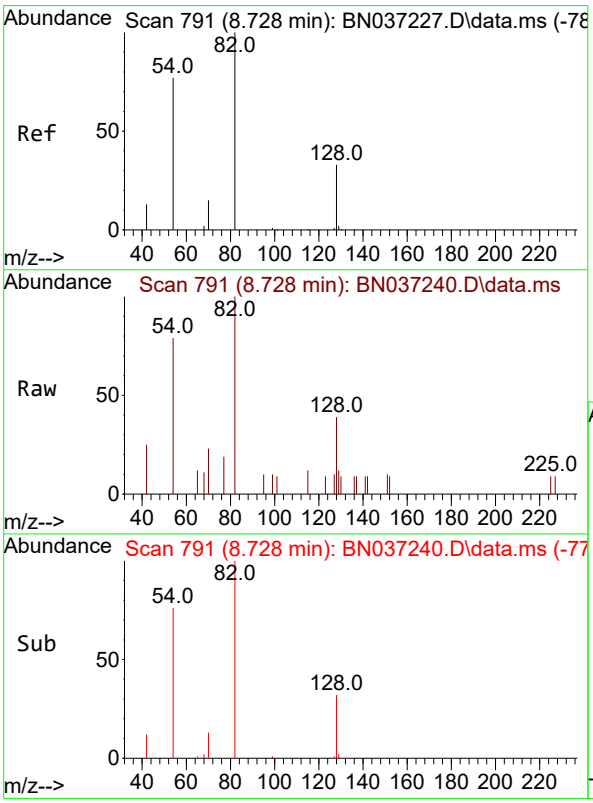
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 94
Delta R.T. -0.010 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:136 Resp: 2581

Ion	Ratio	Lower	Upper
136	100		
137	14.4	10.6	15.8
54	18.6	9.2	13.8#
68	9.8	5.4	8.0#

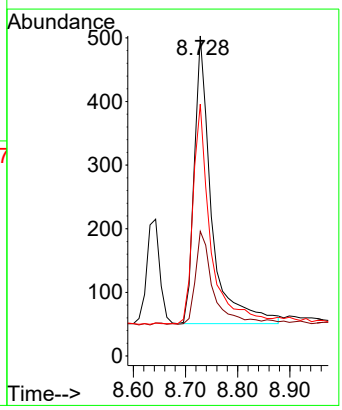


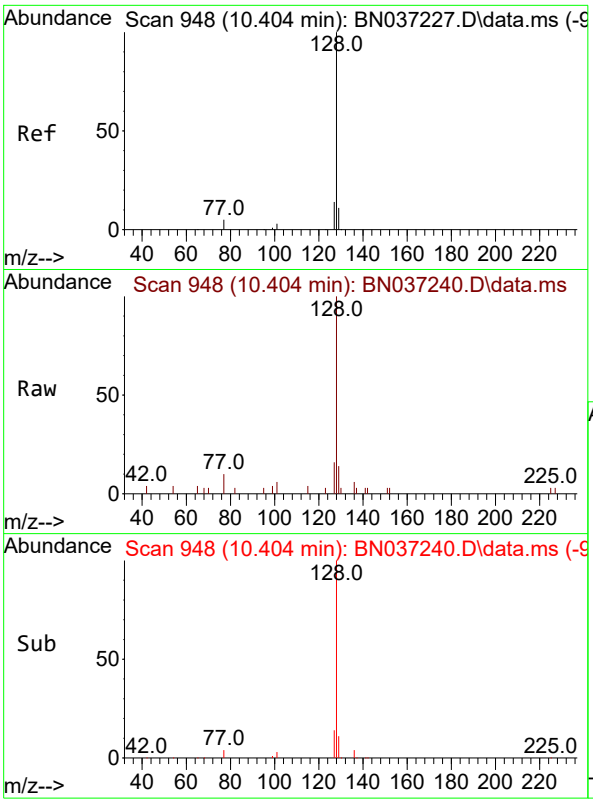


#8
Nitrobenzene-d5
Concen: 0.408 ng
RT: 8.728 min Scan# 791
Delta R.T. 0.000 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

Tgt Ion: 82 Resp: 1042

Ion	Ratio	Lower	Upper
82	100		
128	39.0	31.2	46.8
54	78.7	63.3	94.9



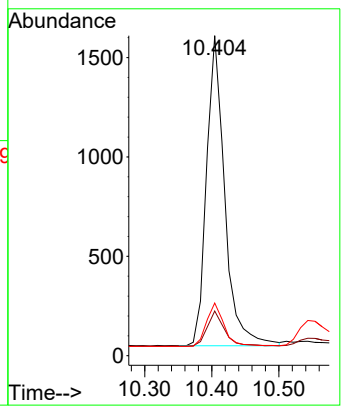


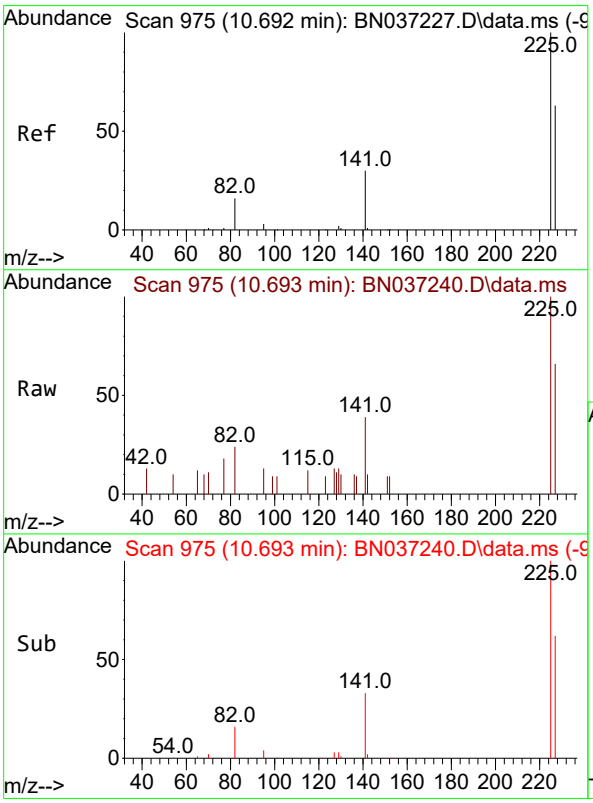
#9
Naphthalene
Concen: 0.395 ng
RT: 10.404 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:128 Resp: 2951

Ion	Ratio	Lower	Upper
128	100		
129	14.0	10.7	16.1
127	16.5	12.6	19.0

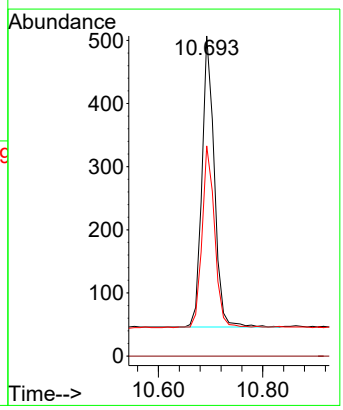


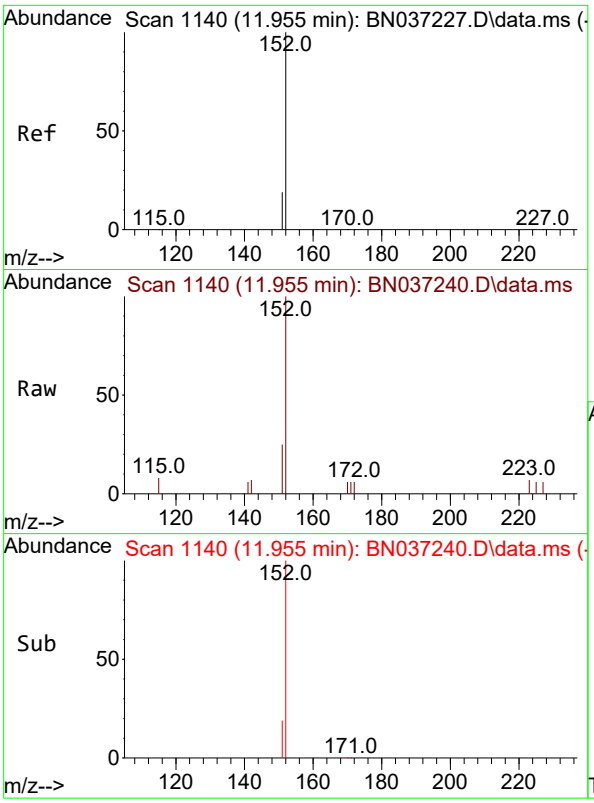


#10
Hexachlorobutadiene
Concen: 0.415 ng
RT: 10.693 min Scan# 975
Delta R.T. 0.000 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

Tgt Ion:225 Resp: 755

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.1	49.2	73.8



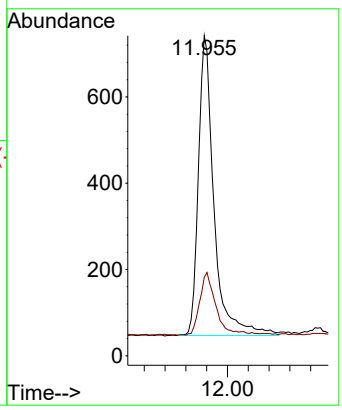


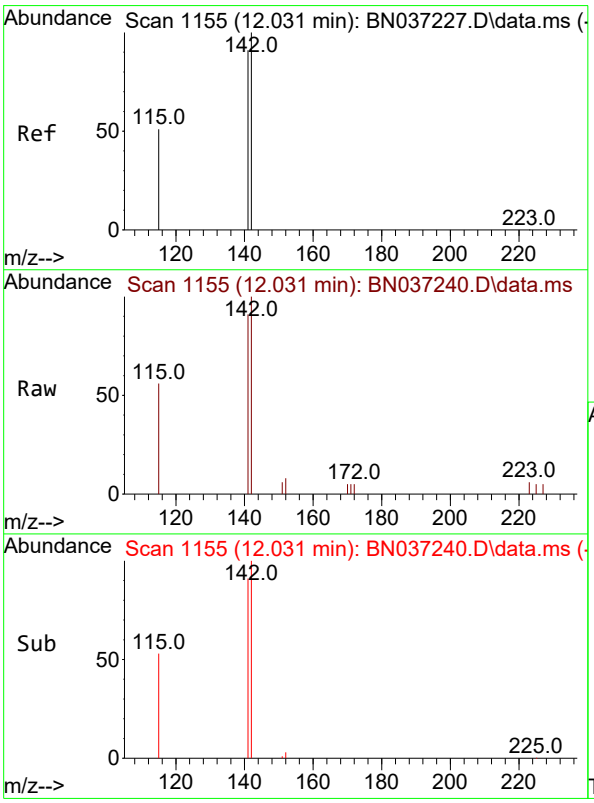
#11
2-Methylnaphthalene-d10
Concen: 0.417 ng
RT: 11.955 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 1443

Ion	Ratio	Lower	Upper
152	100		
151	20.9	17.9	26.9

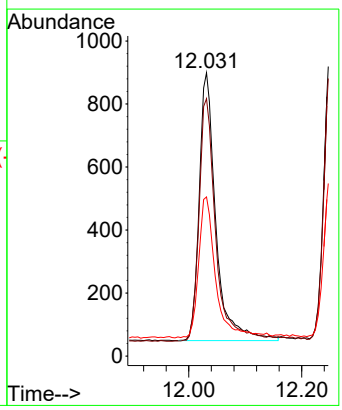


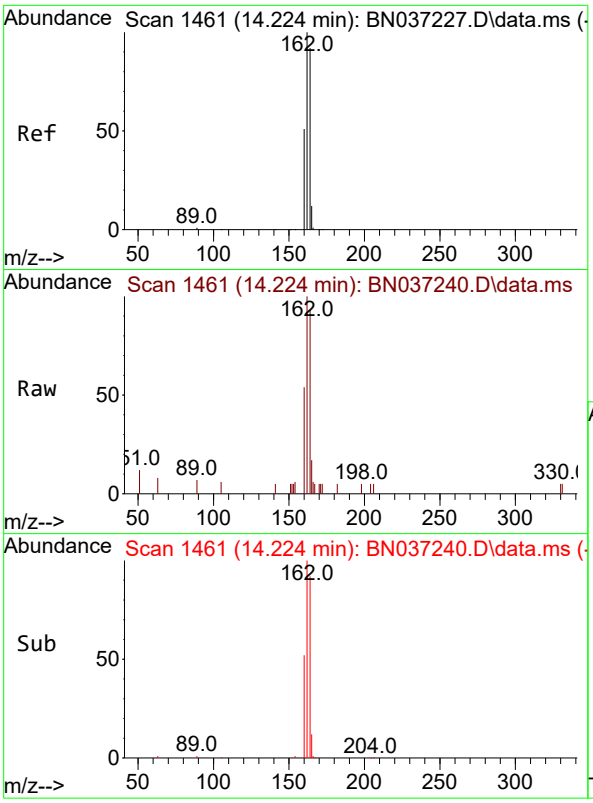


#12
2-Methylnaphthalene
Concen: 0.384 ng
RT: 12.031 min Scan# 1155
Delta R.T. 0.000 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

Tgt Ion:142 Resp: 1743

Ion	Ratio	Lower	Upper
142	100		
141	90.9	73.0	109.6
115	56.2	43.3	64.9



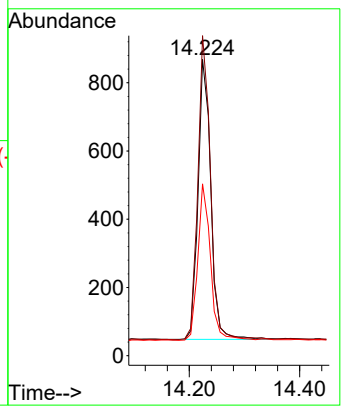


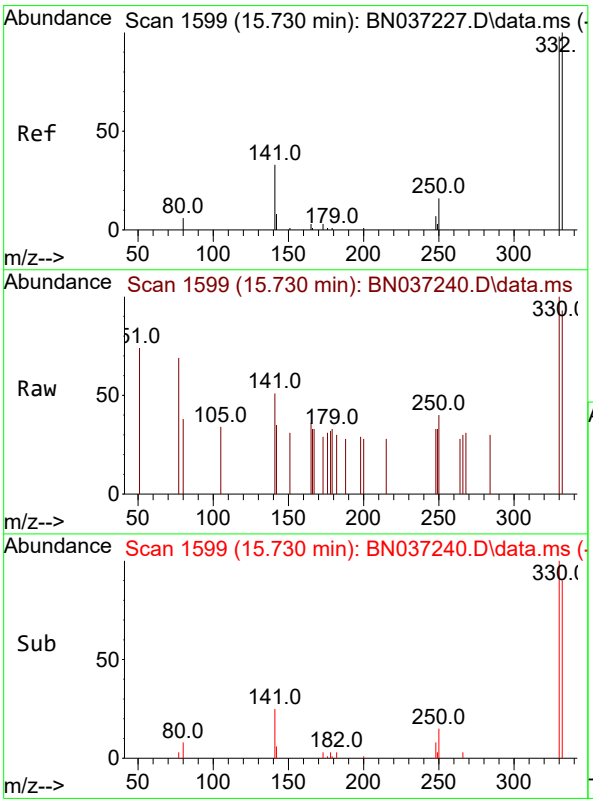
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:164 Resp: 1319

Ion	Ratio	Lower	Upper
164	100		
162	108.1	86.7	130.1
160	58.1	45.8	68.6

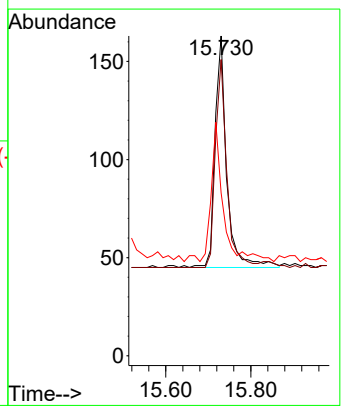


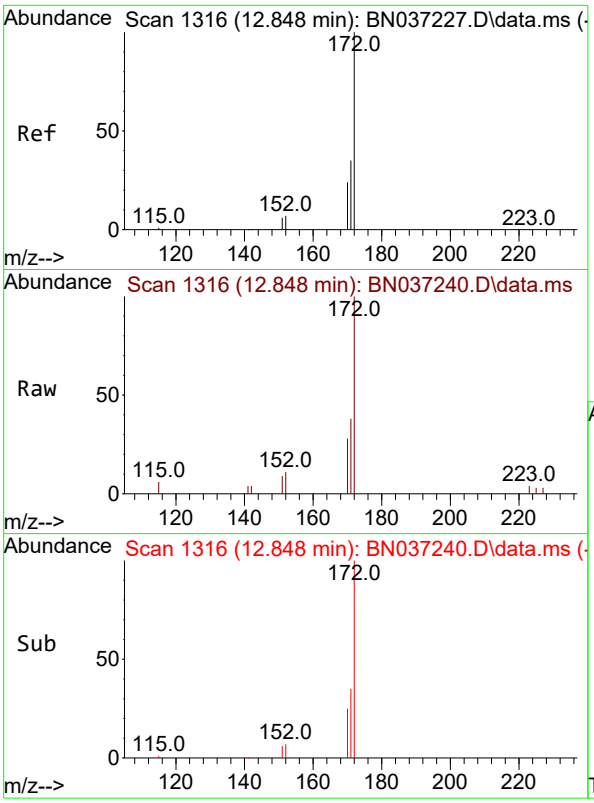


#14
2,4,6-Tribromophenol
Concen: 0.413 ng
RT: 15.730 min Scan# 1599
Delta R.T. 0.000 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

Tgt Ion:330 Resp: 226

Ion	Ratio	Lower	Upper
330	100		
332	86.7	74.9	112.3
141	62.4	45.1	67.7



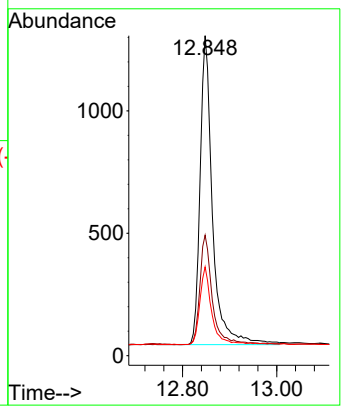


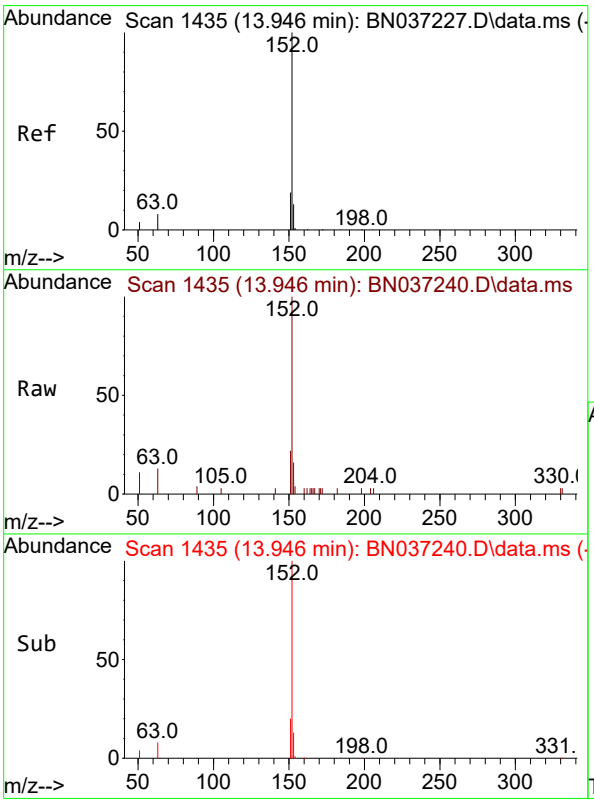
#15
2-Fluorobiphenyl
Concen: 0.419 ng
RT: 12.848 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:172 Resp: 2320

Ion	Ratio	Lower	Upper
172	100		
171	37.6	29.8	44.8
170	27.8	21.1	31.7

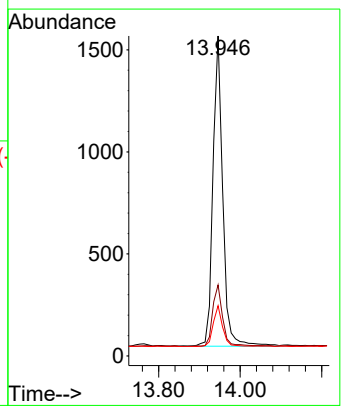


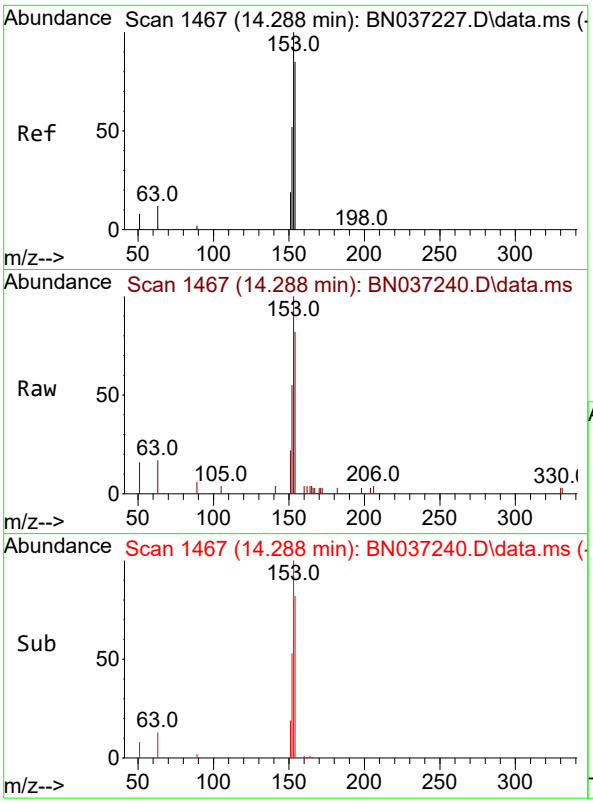


#16
Acenaphthylene
Concen: 0.391 ng
RT: 13.946 min Scan# 1435
Delta R.T. 0.000 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

Tgt Ion:152 Resp: 2529

Ion	Ratio	Lower	Upper
152	100		
151	20.8	15.7	23.5
153	12.9	10.7	16.1



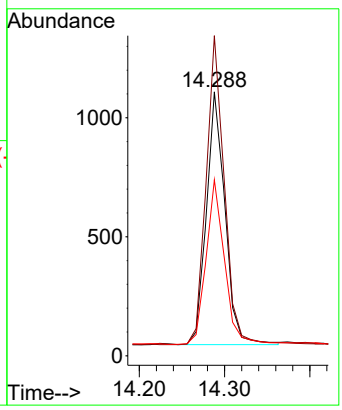


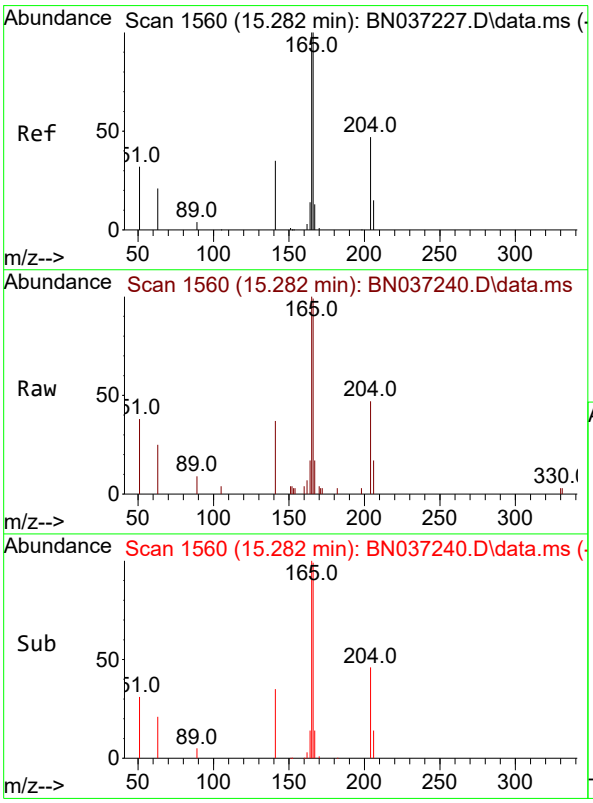
#17
Acenaphthene
Concen: 0.385 ng
RT: 14.288 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:154 Resp: 1605

Ion	Ratio	Lower	Upper
154	100		
153	120.3	94.6	141.8
152	64.7	49.6	74.4

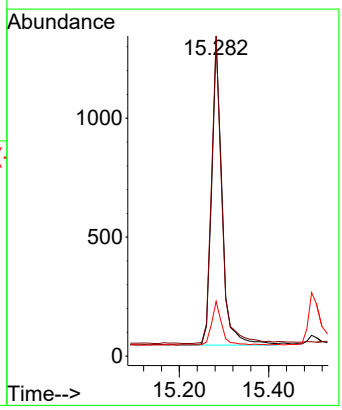


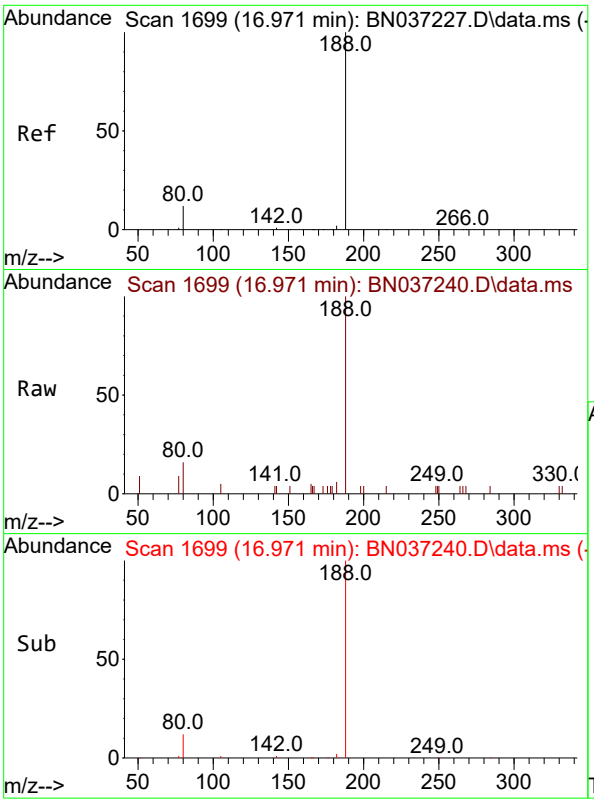


#18
Fluorene
Concen: 0.386 ng
RT: 15.282 min Scan# 1560
Delta R.T. 0.000 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

Tgt Ion:166 Resp: 2071

Ion	Ratio	Lower	Upper
166	100		
165	99.7	79.8	119.6
167	13.4	10.8	16.2



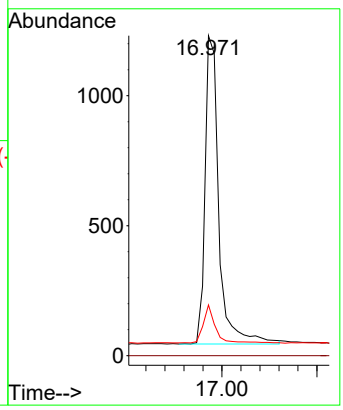


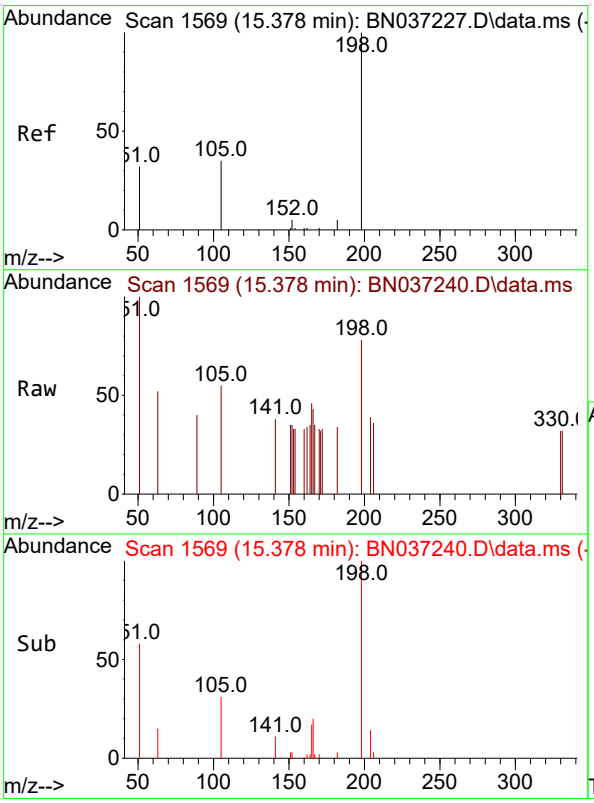
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:188 Resp: 2396

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	15.8	12.2	18.4

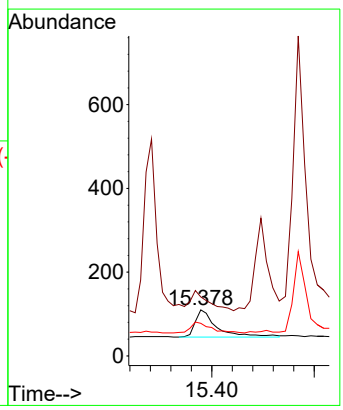


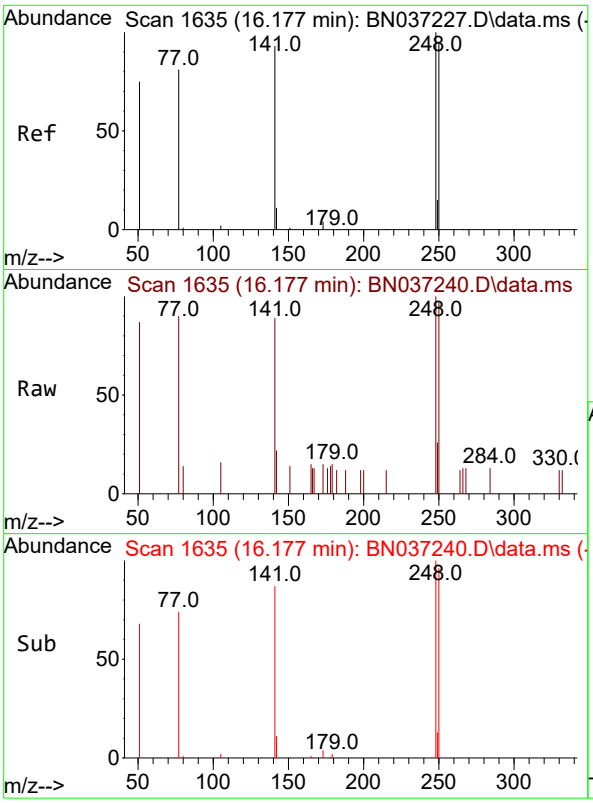


#20
4,6-Dinitro-2-methylphenol
Concen: 0.423 ng
RT: 15.378 min Scan# 1569
Delta R.T. 0.000 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

Tgt Ion:198 Resp: 193

Ion	Ratio	Lower	Upper
198	100		
51	128.2	111.2	166.8
105	70.9	54.0	81.0



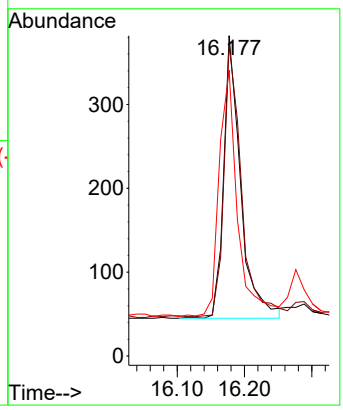


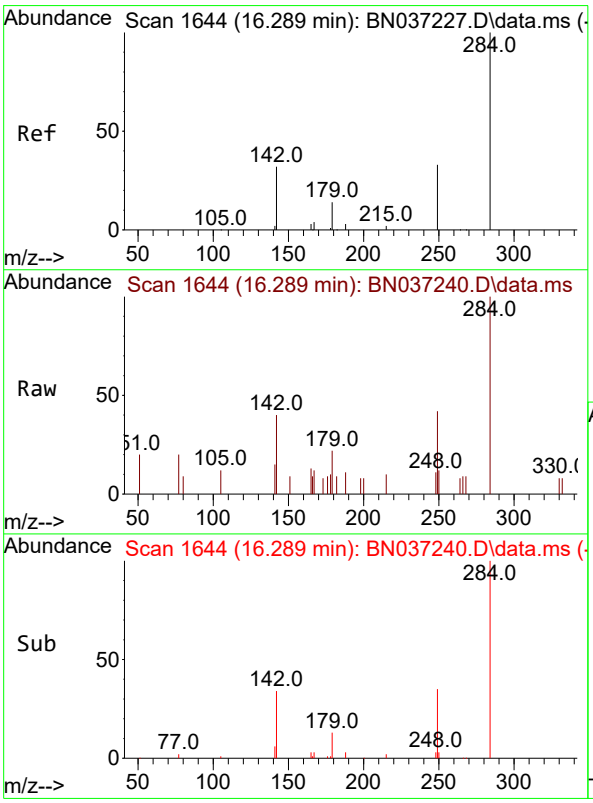
#21
4-Bromophenyl-phenylether
Concen: 0.379 ng
RT: 16.177 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:248 Resp: 591

Ion	Ratio	Lower	Upper
248	100		
250	97.1	76.8	115.2
141	89.3	75.6	113.4

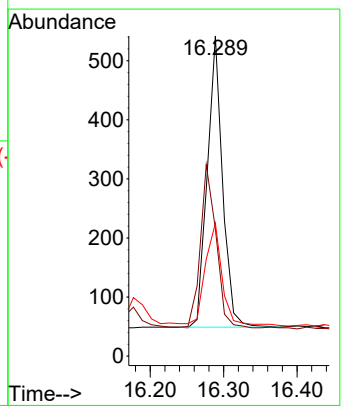


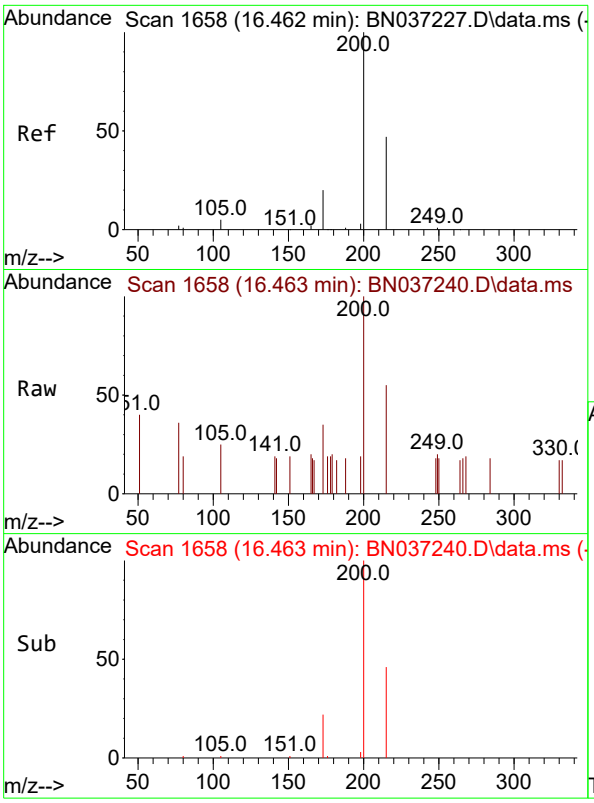


#22
Hexachlorobenzene
Concen: 0.393 ng
RT: 16.289 min Scan# 1644
Delta R.T. 0.000 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

Tgt Ion:284 Resp: 711

Ion	Ratio	Lower	Upper
284	100		
142	57.4	43.8	65.6
249	39.7	28.4	42.6



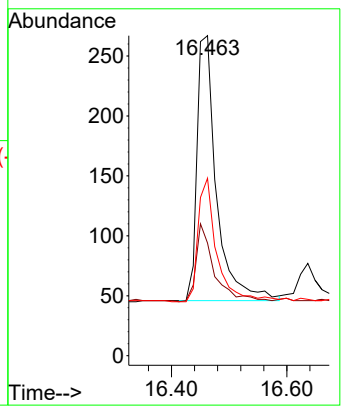


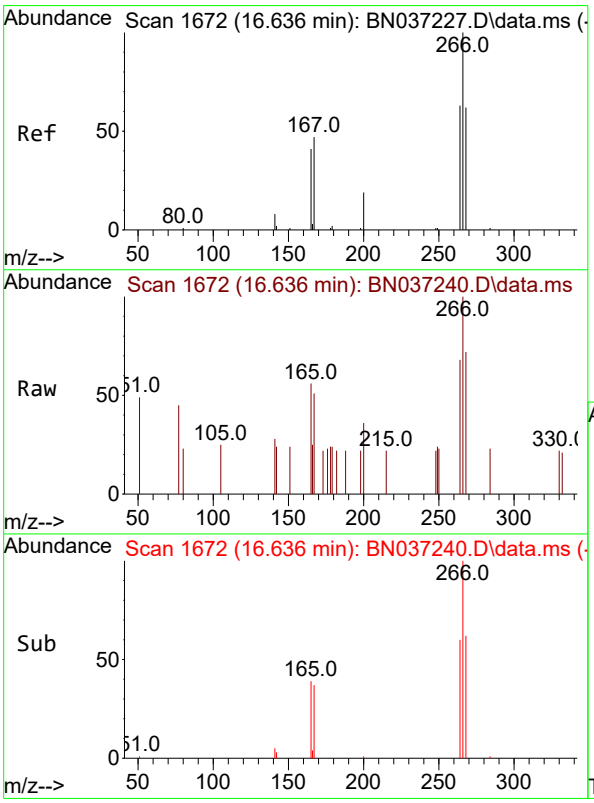
#23
Atrazine
Concen: 0.372 ng
RT: 16.463 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:200 Resp: 518

Ion	Ratio	Lower	Upper
200	100		
173	35.2	25.1	37.7
215	55.4	43.7	65.5

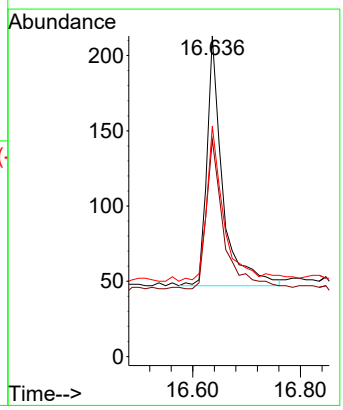


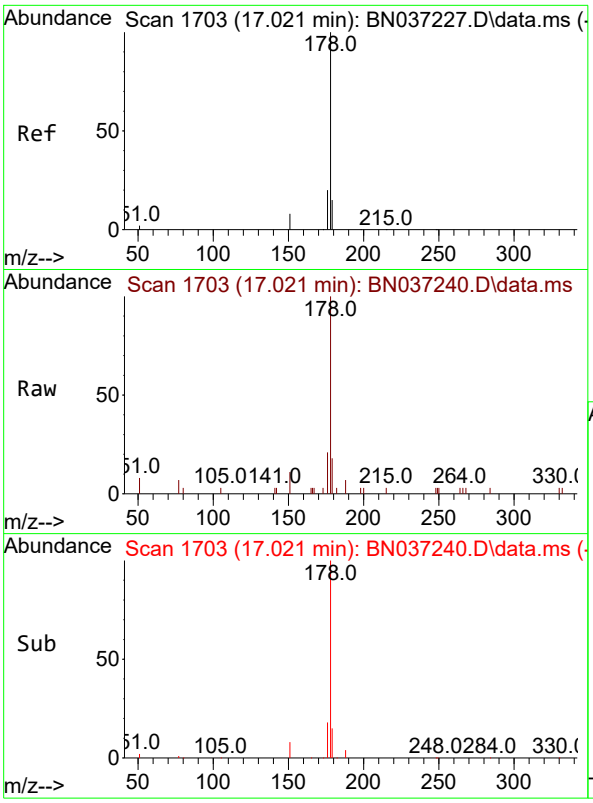


#24
Pentachlorophenol
Concen: 0.380 ng
RT: 16.636 min Scan# 1672
Delta R.T. 0.000 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

Tgt Ion:266 Resp: 337

Ion	Ratio	Lower	Upper
266	100		
264	66.2	49.2	73.8
268	68.8	53.4	80.2



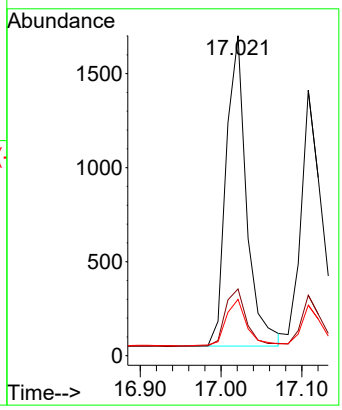


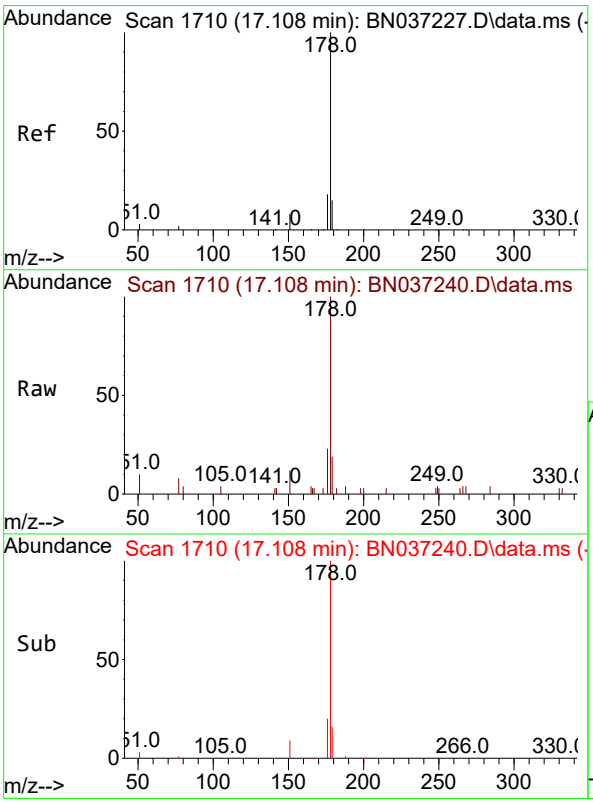
#25
Phenanthrene
Concen: 0.381 ng
RT: 17.021 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:178 Resp: 2895

Ion	Ratio	Lower	Upper
178	100		
176	19.4	16.3	24.5
179	15.4	12.6	18.8

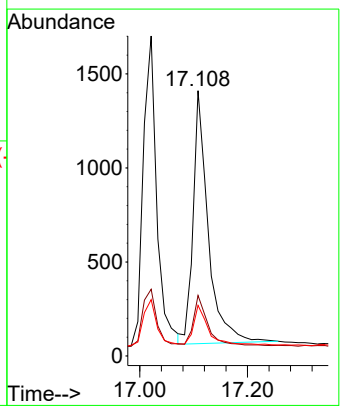


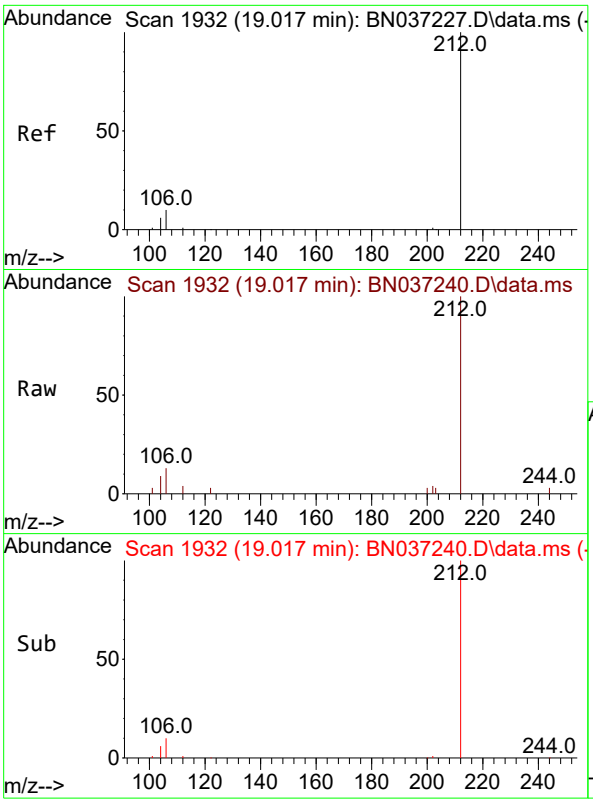


#26
Anthracene
Concen: 0.378 ng
RT: 17.108 min Scan# 1710
Delta R.T. 0.000 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

Tgt Ion:178 Resp: 2630

Ion	Ratio	Lower	Upper
178	100		
176	19.9	15.1	22.7
179	15.9	12.4	18.6



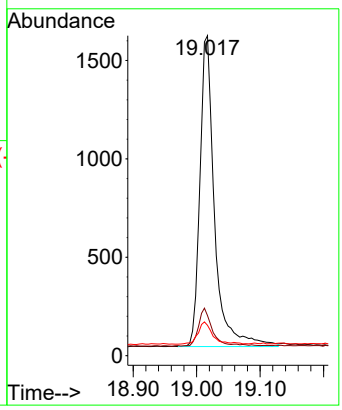


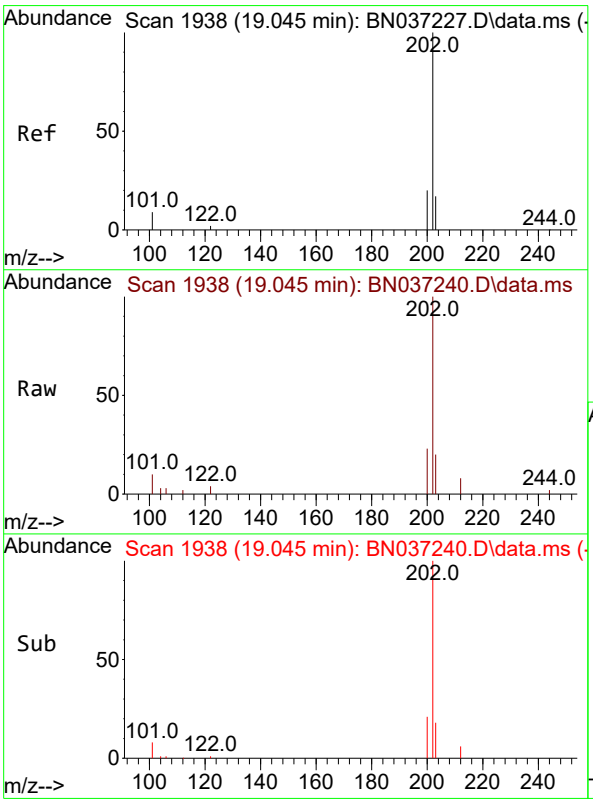
#27
Fluoranthene-d10
Concen: 0.404 ng
RT: 19.017 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:212 Resp: 2535

Ion	Ratio	Lower	Upper
212	100		
106	11.5	9.3	13.9
104	6.9	5.7	8.5

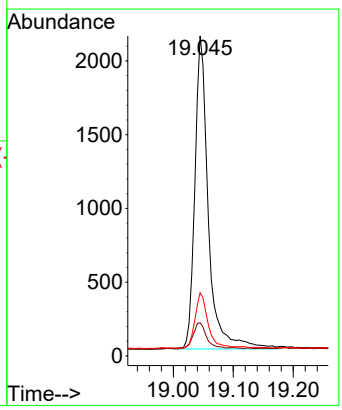


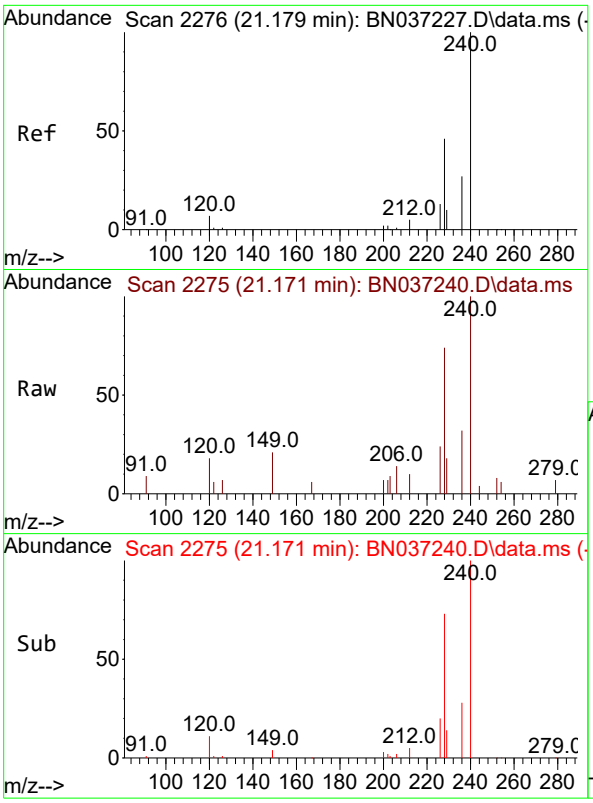


#28
Fluoranthene
Concen: 0.373 ng
RT: 19.045 min Scan# 1938
Delta R.T. 0.000 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

Tgt Ion:202 Resp: 3316

Ion	Ratio	Lower	Upper
202	100		
101	8.7	7.1	10.7
203	17.3	13.0	19.6



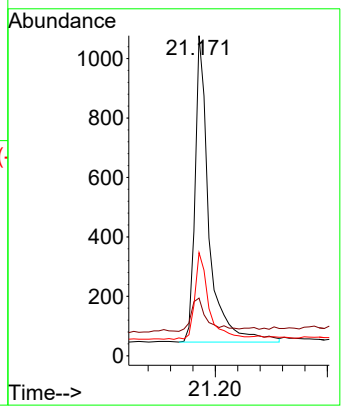


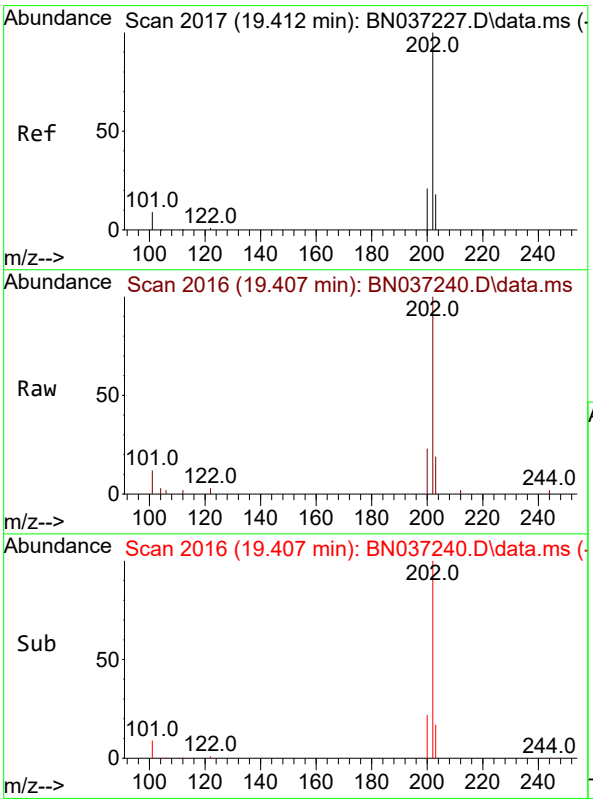
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.171 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:240 Resp: 1787

Ion	Ratio	Lower	Upper
240	100		
120	18.0	11.3	16.9#
236	32.2	24.4	36.6

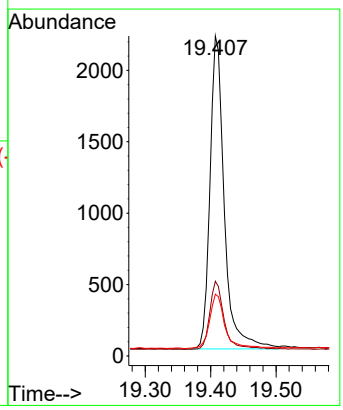


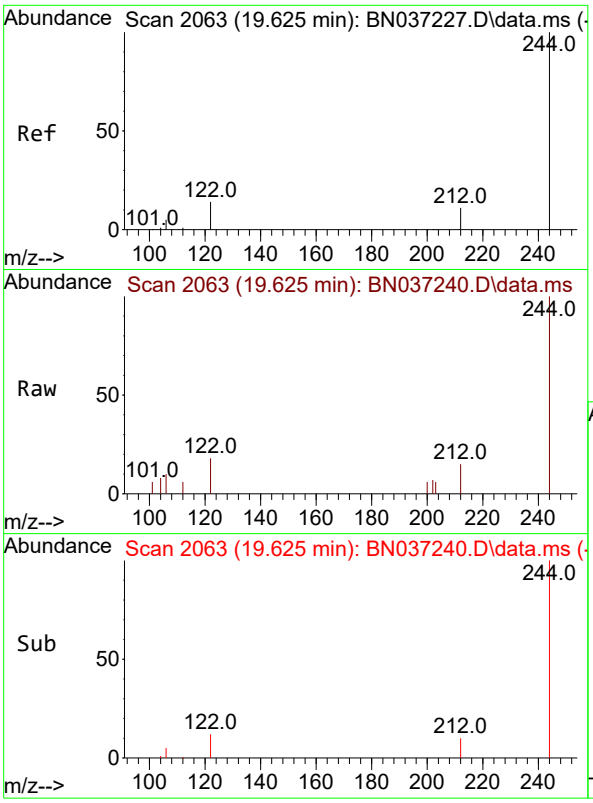


#30
Pyrene
Concen: 0.397 ng
RT: 19.407 min Scan# 2016
Delta R.T. -0.004 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

Tgt Ion:202 Resp: 3339

Ion	Ratio	Lower	Upper
202	100		
200	22.0	17.2	25.8
203	18.8	14.3	21.5



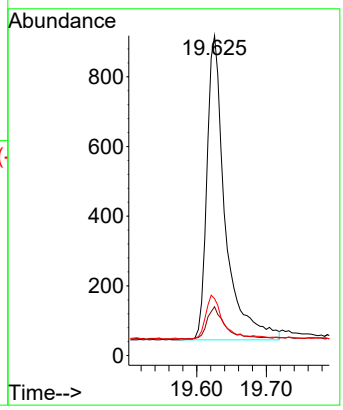


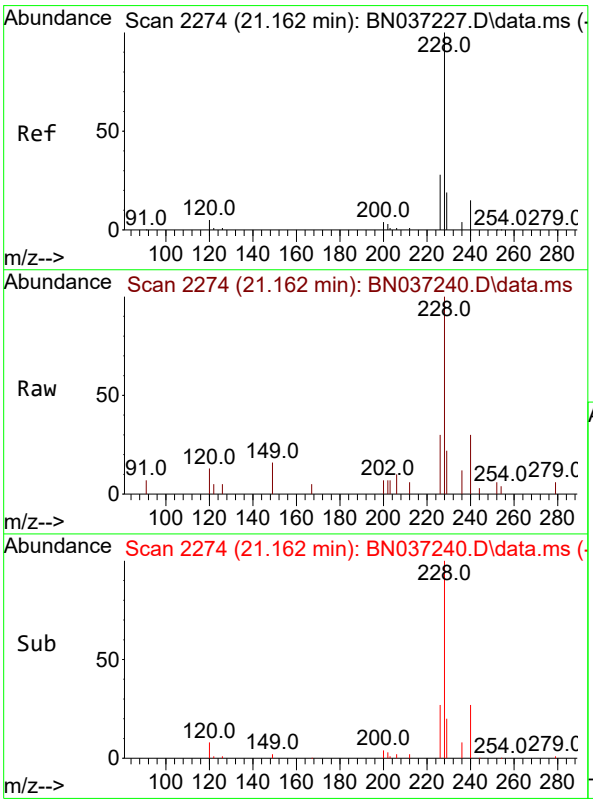
#31
Terphenyl-d14
Concen: 0.393 ng
RT: 19.625 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:244 Resp: 1588

Ion	Ratio	Lower	Upper
244	100		
212	15.3	12.2	18.2
122	17.8	14.3	21.5

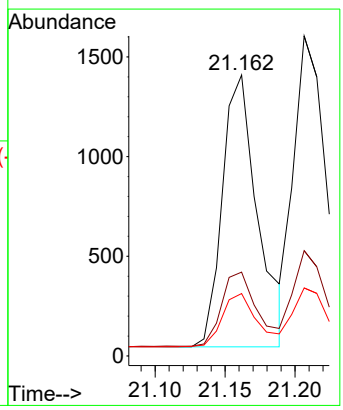


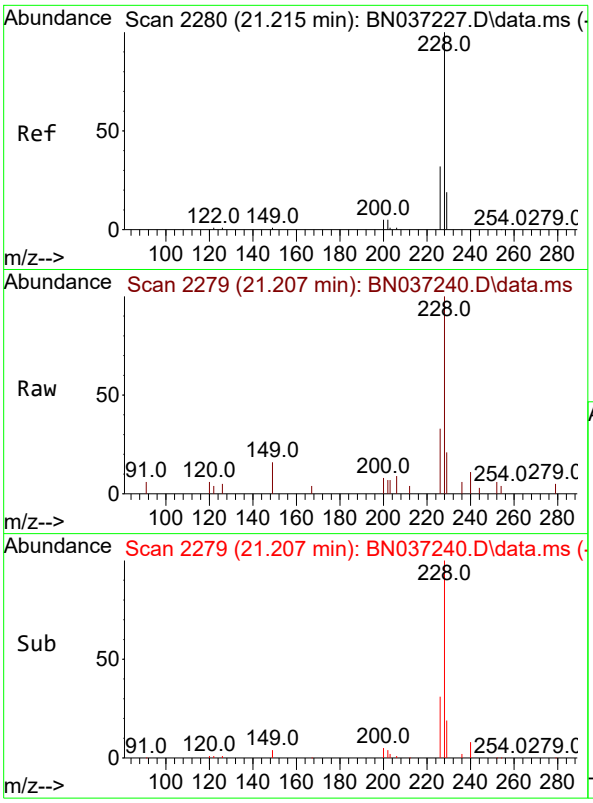


#32
Benzo(a)anthracene
Concen: 0.397 ng
RT: 21.162 min Scan# 2274
Delta R.T. 0.000 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

Tgt Ion:228 Resp: 2395

Ion	Ratio	Lower	Upper
228	100		
226	29.9	23.8	35.8
229	22.2	17.0	25.4



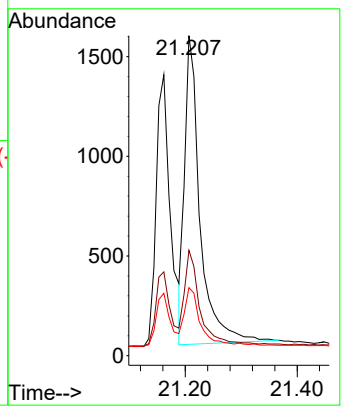


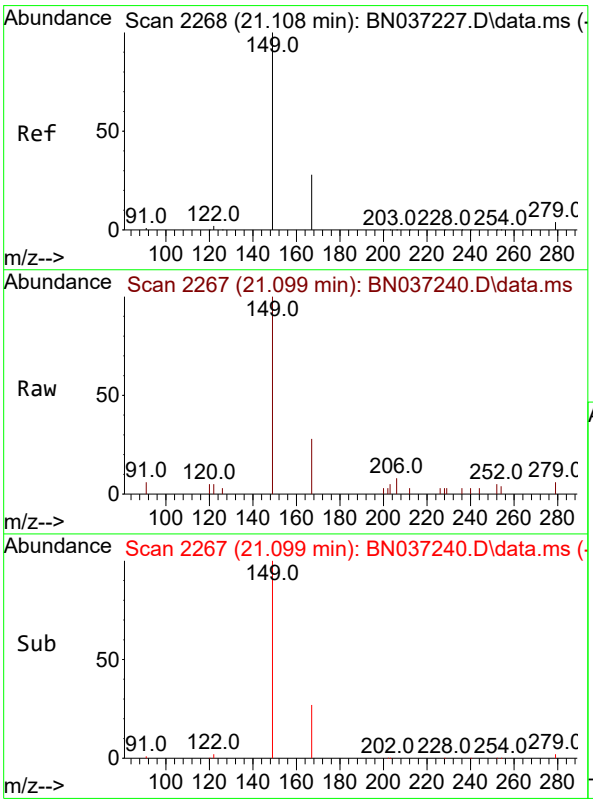
#33
Chrysene
Concen: 0.393 ng
RT: 21.207 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:228 Resp: 2954

Ion	Ratio	Lower	Upper
228	100		
226	32.9	25.8	38.6
229	21.2	17.0	25.4

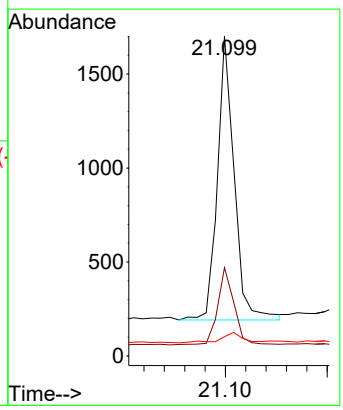


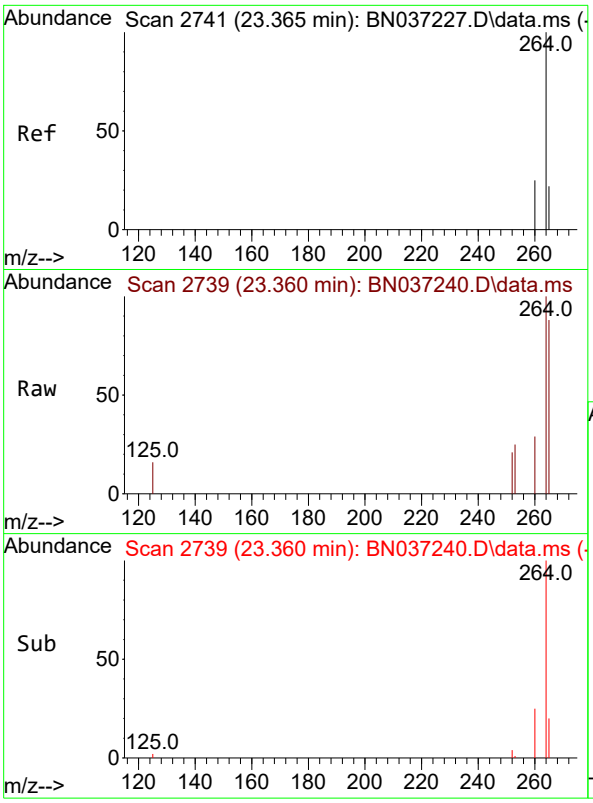


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.385 ng
RT: 21.099 min Scan# 2267
Delta R.T. -0.009 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

Tgt Ion:149 Resp: 1731

Ion	Ratio	Lower	Upper
149	100		
167	26.6	21.3	31.9
279	4.7	3.3	4.9



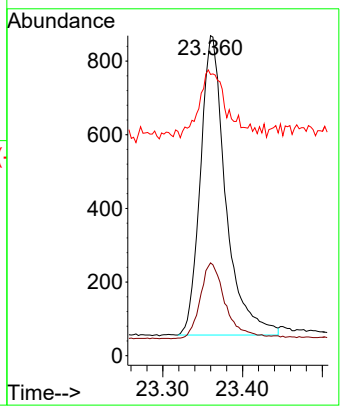


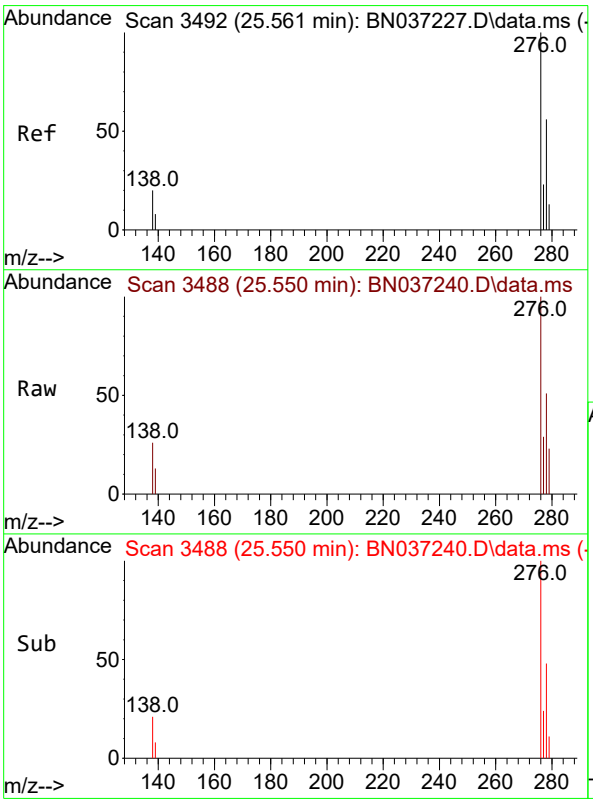
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.360 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:264 Resp: 1797

Ion	Ratio	Lower	Upper
264	100		
260	29.0	22.8	34.2
265	87.9	66.4	99.6

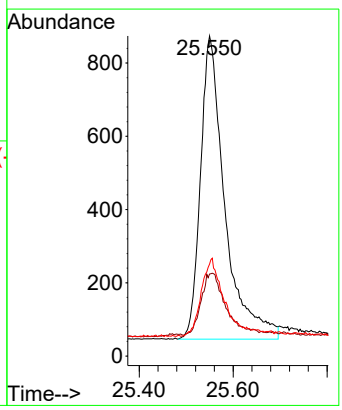


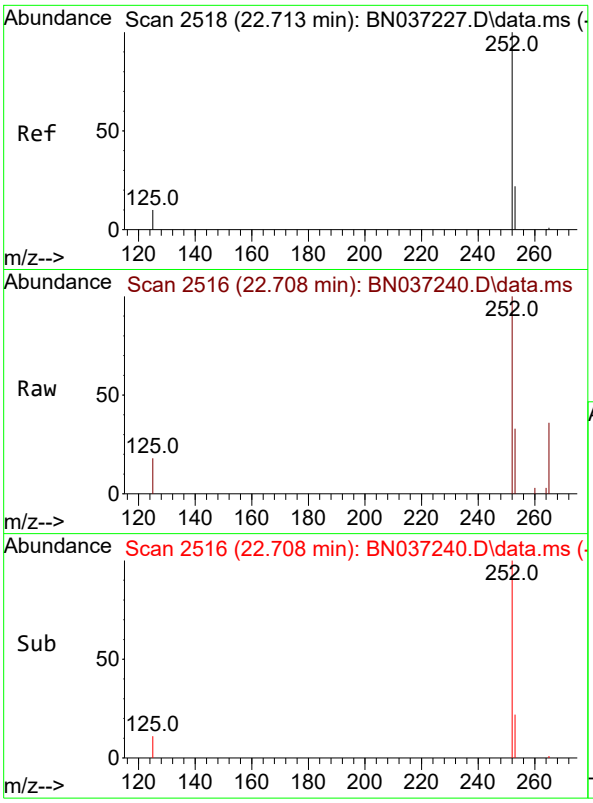


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.412 ng
RT: 25.550 min Scan# 3488
Delta R.T. -0.011 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

Tgt Ion:276 Resp: 2982

Ion	Ratio	Lower	Upper
276	100		
138	20.1	16.8	25.2
277	23.2	19.5	29.3



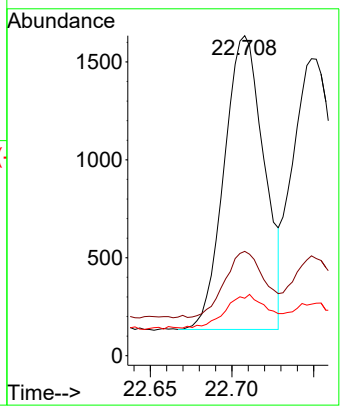


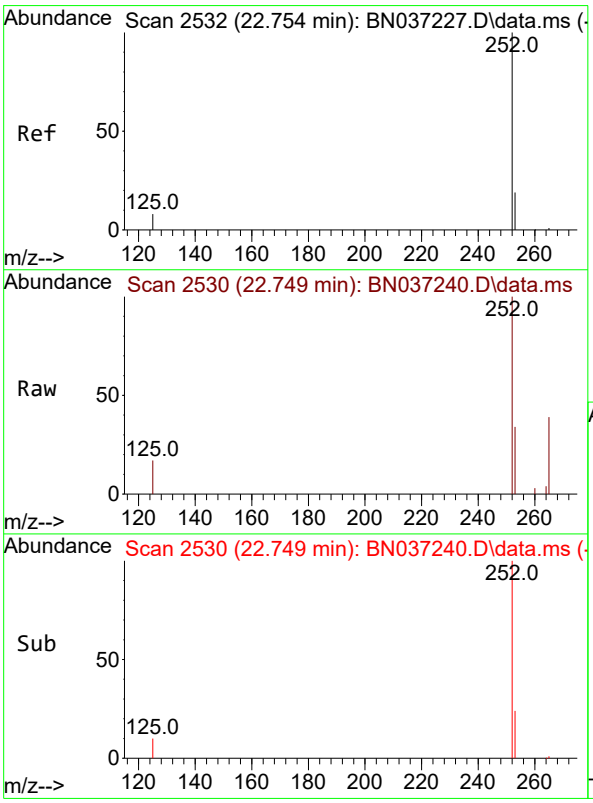
#37
Benzo(b)fluoranthene
Concen: 0.388 ng
RT: 22.708 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 2552

Ion	Ratio	Lower	Upper
252	100		
253	32.6	24.9	37.3
125	17.9	12.9	19.3

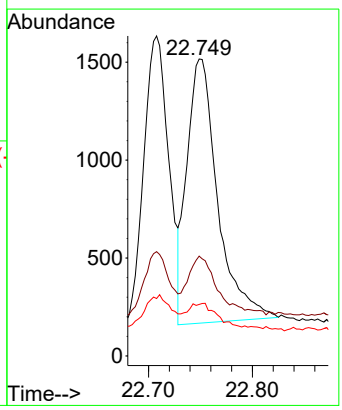


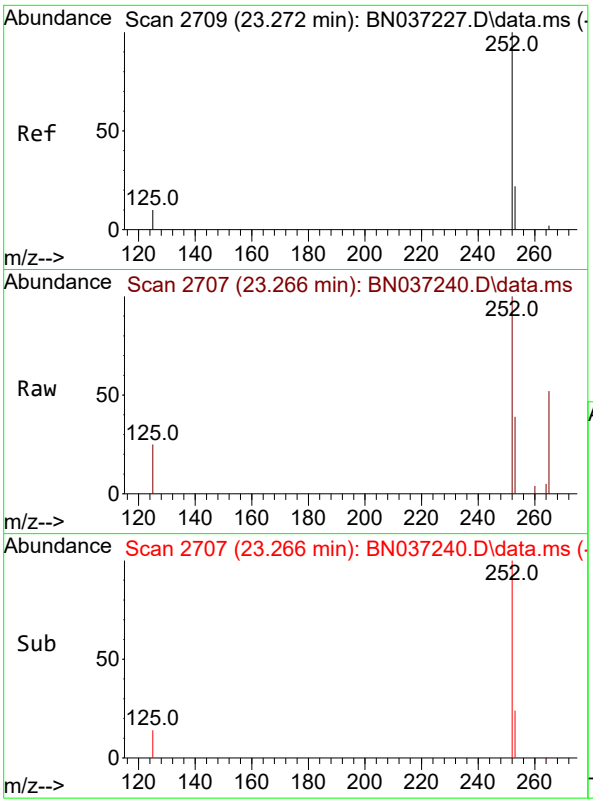


#38
Benzo(k)fluoranthene
Concen: 0.366 ng
RT: 22.749 min Scan# 2530
Delta R.T. -0.006 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

Tgt Ion:252 Resp: 2779

Ion	Ratio	Lower	Upper
252	100		
253	33.6	24.6	37.0
125	17.3	13.4	20.2



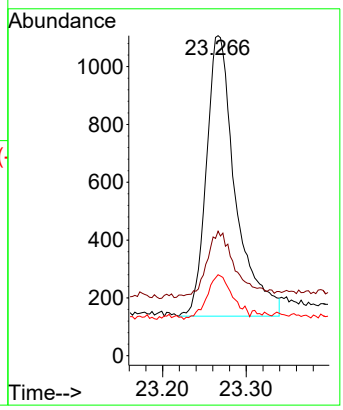


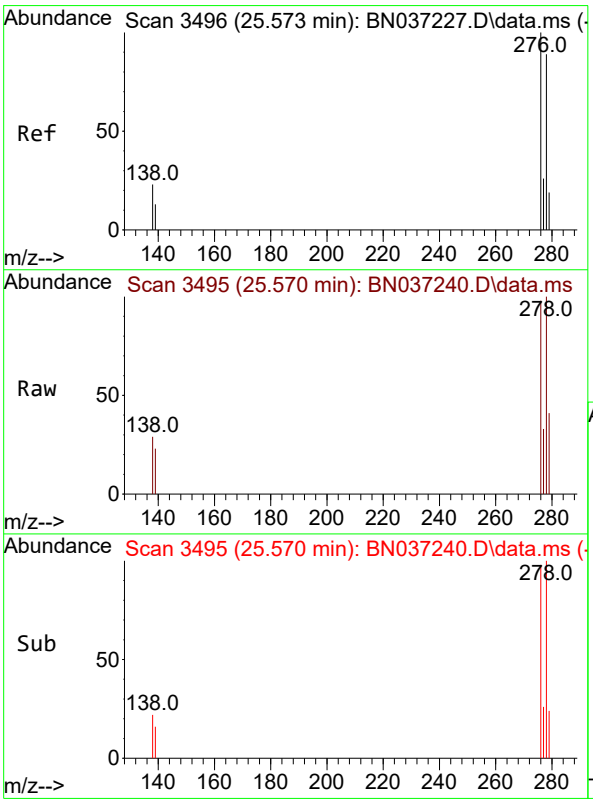
#39
Benzo(a)pyrene
Concen: 0.396 ng
RT: 23.266 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 2340

Ion	Ratio	Lower	Upper
252	100		
253	38.9	29.4	44.2
125	25.3	16.2	24.2#

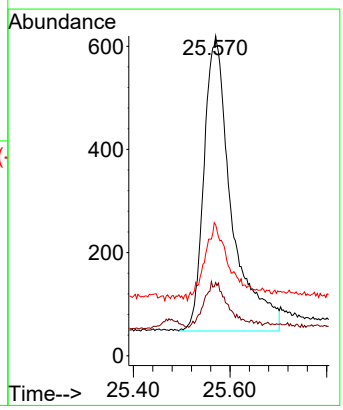


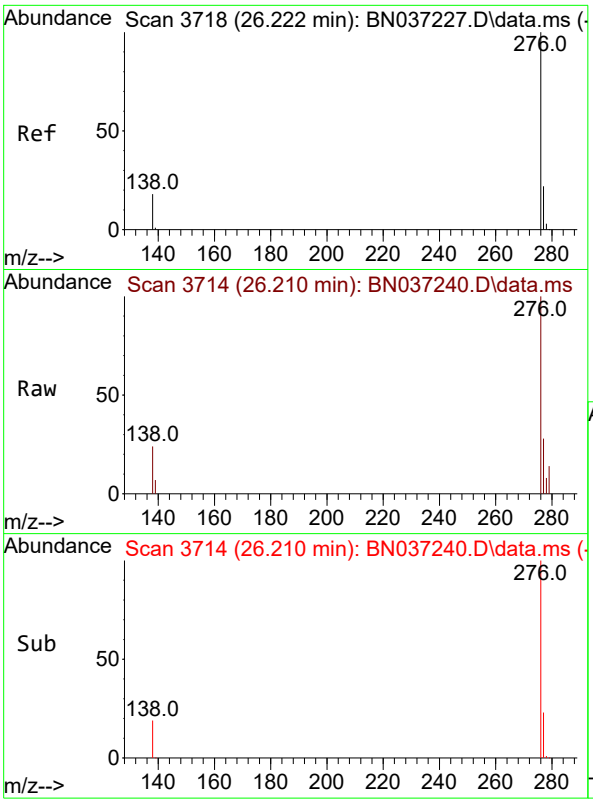


#40
Dibenzo(a,h)anthracene
Concen: 0.411 ng
RT: 25.570 min Scan# 3495
Delta R.T. -0.003 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

Tgt Ion:278 Resp: 2263

Ion	Ratio	Lower	Upper
278	100		
139	22.9	17.8	26.6
279	41.0	31.3	46.9



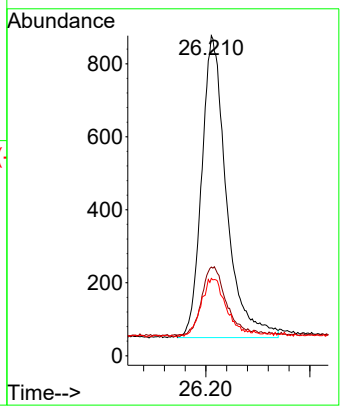


#41
Benzo(g,h,i)perylene
Concen: 0.406 ng
RT: 26.210 min Scan# 3
Delta R.T. -0.012 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:276 Resp: 2727

Ion	Ratio	Lower	Upper
276	100		
277	27.7	22.0	33.0
138	24.2	18.4	27.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037240.D
Acq On : 13 Jun 2025 23:55
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Jun 14 02:05:21 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 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	0.549	0.484	11.8	79	0.00
3		n-Nitrosodimethylamine	1.250	1.265	-1.2	85	0.00
4	S	2-Fluorophenol	0.982	0.884	10.0	80	0.00
5	S	Phenol-d6	1.035	0.970	6.3	86	0.00
6		bis(2-Chloroethyl)ether	0.927	0.913	1.5	90	0.00
7	I	Naphthalene-d8	1.000	1.000	0.0	80	-0.01
8	S	Nitrobenzene-d5	0.395	0.404	-2.3	84	0.00
9		Naphthalene	1.158	1.143	1.3	81	0.00
10		Hexachlorobutadiene	0.282	0.293	-3.9	78	0.00
11	SURR	2-Methylnaphthalene-d10	0.537	0.559	-4.1	81	0.00
12		2-Methylnaphthalene	0.704	0.675	4.1	77	0.00
13	I	Acenaphthene-d10	1.000	1.000	0.0	76	0.00
14	S	2,4,6-Tribromophenol	0.166	0.171	-3.0	76	0.00
15	S	2-Fluorobiphenyl	1.681	1.759	-4.6	79	0.00
16		Acenaphthylene	1.960	1.917	2.2	78	0.00
17		Acenaphthene	1.265	1.217	3.8	74	0.00
18		Fluorene	1.625	1.570	3.4	75	0.00
19	I	Phenanthrene-d10	1.000	1.000	0.0	75	0.00
20		4,6-Dinitro-2-methylphenol	0.092	0.081	12.0	91	0.00
21		4-Bromophenyl-phenylether	0.261	0.247	5.4	76	0.00
22		Hexachlorobenzene	0.302	0.297	1.7	72	0.00
23		Atrazine	0.232	0.216	6.9	73	0.00
24		Pentachlorophenol	0.148	0.141	4.7	85	0.00
25		Phenanthrene	1.269	1.208	4.8	76	0.00
26		Anthracene	1.161	1.098	5.4	76	0.00
27	SURR	Fluoranthene-d10	1.046	1.058	-1.1	75	0.00
28		Fluoranthene	1.485	1.384	6.8	74	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	78	0.00
30		Pyrene	1.881	1.868	0.7	74	0.00
31	S	Terphenyl-d14	0.904	0.889	1.7	74	0.00
32		Benzo(a)anthracene	1.351	1.340	0.8	86	0.00
33		Chrysene	1.683	1.653	1.8	76	0.00
34		Bis(2-ethylhexyl)phthalate	1.006	0.969	3.7	74	0.00
35	I	Perylene-d12	1.000	1.000	0.0	84	0.00
36		Indeno(1,2,3-cd)pyrene	1.613	1.659	-2.9	92	-0.01
37		Benzo(b)fluoranthene	1.463	1.420	2.9	86	0.00
38		Benzo(k)fluoranthene	1.689	1.546	8.5	79	0.00
39	C	Benzo(a)pyrene	1.316	1.302	1.1	88	0.00
40		Dibenzo(a,h)anthracene	1.227	1.259	-2.6	100	0.00
41		Benzo(g,h,i)perylene	1.496	1.518	-1.5	88	-0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037240.D
Acq On : 13 Jun 2025 23:55
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Jun 14 02:05:21 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 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	0.400	0.400	0.0	86	0.00
2		1,4-Dioxane	0.400	0.353	11.8	79	0.00
3		n-Nitrosodimethylamine	0.400	0.405	-1.3	85	0.00
4	S	2-Fluorophenol	0.400	0.360	10.0	80	0.00
5	S	Phenol-d6	0.400	0.375	6.3	86	0.00
6		bis(2-Chloroethyl)ether	0.400	0.394	1.5	90	0.00
7	I	Naphthalene-d8	0.400	0.400	0.0	80	-0.01
8	S	Nitrobenzene-d5	0.400	0.408	-2.0	84	0.00
9		Naphthalene	0.400	0.395	1.3	81	0.00
10		Hexachlorobutadiene	0.400	0.415	-3.7	78	0.00
11	SURR	2-Methylnaphthalene-d10	0.400	0.417	-4.2	81	0.00
12		2-Methylnaphthalene	0.400	0.384	4.0	77	0.00
13	I	Acenaphthene-d10	0.400	0.400	0.0	76	0.00
14	S	2,4,6-Tribromophenol	0.400	0.413	-3.2	76	0.00
15	S	2-Fluorobiphenyl	0.400	0.419	-4.7	79	0.00
16		Acenaphthylene	0.400	0.391	2.3	78	0.00
17		Acenaphthene	0.400	0.385	3.8	74	0.00
18		Fluorene	0.400	0.386	3.5	75	0.00
19	I	Phenanthrene-d10	0.400	0.400	0.0	75	0.00
20		4,6-Dinitro-2-methylphenol	0.400	0.423	-5.7	91	0.00
21		4-Bromophenyl-phenylether	0.400	0.379	5.3	76	0.00
22		Hexachlorobenzene	0.400	0.393	1.8	72	0.00
23		Atrazine	0.400	0.372	7.0	73	0.00
24		Pentachlorophenol	0.400	0.380	5.0	85	0.00
25		Phenanthrene	0.400	0.381	4.8	76	0.00
26		Anthracene	0.400	0.378	5.5	76	0.00
27	SURR	Fluoranthene-d10	0.400	0.404	-1.0	75	0.00
28		Fluoranthene	0.400	0.373	6.8	74	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	78	0.00
30		Pyrene	0.400	0.397	0.8	74	0.00
31	S	Terphenyl-d14	0.400	0.393	1.8	74	0.00
32		Benzo(a)anthracene	0.400	0.397	0.8	86	0.00
33		Chrysene	0.400	0.393	1.8	76	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.385	3.8	74	0.00
35	I	Perylene-d12	0.400	0.400	0.0	84	0.00
36		Indeno(1,2,3-cd)pyrene	0.400	0.412	-3.0	92	-0.01
37		Benzo(b)fluoranthene	0.400	0.388	3.0	86	0.00
38		Benzo(k)fluoranthene	0.400	0.366	8.5	79	0.00
39	C	Benzo(a)pyrene	0.400	0.396	1.0	88	0.00
40		Dibenzo(a,h)anthracene	0.400	0.411	-2.7	100	0.00
41		Benzo(g,h,i)perylene	0.400	0.406	-1.5	88	-0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q2299 SAS No.: Q2299 SDG No.: Q2299

Instrument ID: BNA_N Calibration Date/Time: 06/14/2025 10:10

Lab File ID: BN037257.D Init. Calib. Date(s): 06/13/2025 06/13/2025

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 13:33 17:11

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.537	0.557		3.7	50.0
Fluoranthene-d10	1.047	1.058		1.1	50.0
2-Fluorophenol	0.982	0.966		-1.6	50.0
Phenol-d6	1.035	1.004		-3.0	50.0
Nitrobenzene-d5	0.395	0.401		1.5	50.0
2-Fluorobiphenyl	1.681	1.713		1.9	50.0
2,4,6-Tribromophenol	0.166	0.169		1.8	50.0
Terphenyl-d14	0.904	0.905		0.1	50.0
1,4-Dioxane	0.549	0.503		-8.4	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037257.D
Acq On : 14 Jun 2025 10:10
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 36 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Jun 16 01:01:42 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration

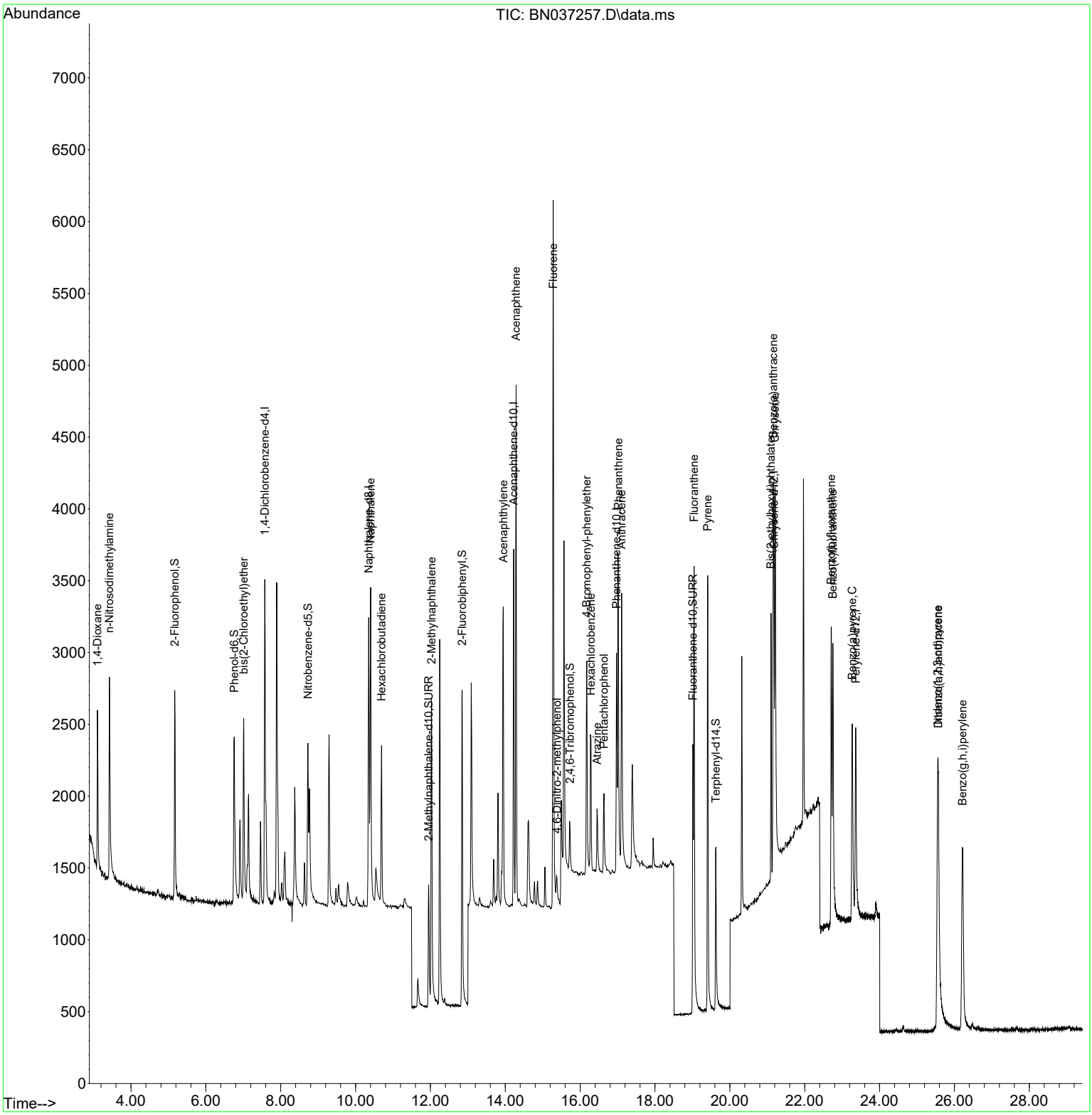
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.575	152	1123	0.400	ng		0.00
7) Naphthalene-d8	10.351	136	2673	0.400	ng		#-0.01
13) Acenaphthene-d10	14.224	164	1354	0.400	ng		0.00
19) Phenanthrene-d10	16.971	188	2362	0.400	ng		0.00
29) Chrysene-d12	21.179	240	1800	0.400	ng		0.00
35) Perylene-d12	23.362	264	1888	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.170	112	1085	0.393	ng		0.00
5) Phenol-d6	6.759	99	1128	0.388	ng		0.00
8) Nitrobenzene-d5	8.728	82	1072	0.406	ng		0.00
11) 2-Methylnaphthalene-d10	11.950	152	1489	0.415	ng		0.00
14) 2,4,6-Tribromophenol	15.730	330	229	0.407	ng		0.00
15) 2-Fluorobiphenyl	12.848	172	2320	0.408	ng		0.00
27) Fluoranthene-d10	19.012	212	2499	0.404	ng		0.00
31) Terphenyl-d14	19.625	244	1629	0.400	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.104	88	565	0.367	ng		97
3) n-Nitrosodimethylamine	3.422	42	1468	0.418	ng	#	95
6) bis(2-Chloroethyl)ether	7.011	93	1041	0.400	ng		93
9) Naphthalene	10.404	128	3065	0.396	ng		99
10) Hexachlorobutadiene	10.692	225	789	0.419	ng	#	97
12) 2-Methylnaphthalene	12.031	142	1789	0.380	ng		98
16) Acenaphthylene	13.946	152	2535	0.382	ng		99
17) Acenaphthene	14.288	154	1658	0.387	ng		100
18) Fluorene	15.282	166	2058	0.374	ng		98
20) 4,6-Dinitro-2-methylph...	15.378	198	192	0.426	ng		89
21) 4-Bromophenyl-phenylether	16.177	248	592	0.385	ng		91
22) Hexachlorobenzene	16.289	284	720	0.404	ng		99
23) Atrazine	16.450	200	530	0.386	ng	#	93
24) Pentachlorophenol	16.636	266	343	0.392	ng		99
25) Phenanthrene	17.021	178	2864	0.382	ng		99
26) Anthracene	17.108	178	2628	0.383	ng		98
28) Fluoranthene	19.045	202	3275	0.373	ng		99
30) Pyrene	19.407	202	3356	0.397	ng		99
32) Benzo(a)anthracene	21.162	228	2378	0.391	ng		99
33) Chrysene	21.206	228	3069	0.405	ng		99
34) Bis(2-ethylhexyl)phtha...	21.099	149	1780	0.393	ng		100
36) Indeno(1,2,3-cd)pyrene	25.552	276	3254	0.427	ng		97
37) Benzo(b)fluoranthene	22.708	252	2661	0.385	ng		99
38) Benzo(k)fluoranthene	22.751	252	2970	0.373	ng		98
39) Benzo(a)pyrene	23.269	252	2477	0.399	ng	#	95
40) Dibenzo(a,h)anthracene	25.570	278	2342	0.404	ng		97
41) Benzo(g,h,i)perylene	26.213	276	2869	0.406	ng		98

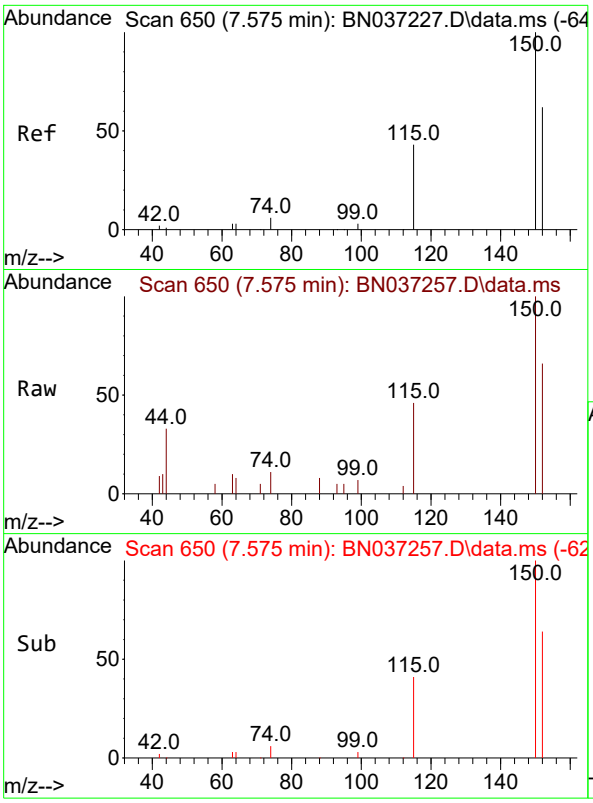
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037257.D
Acq On : 14 Jun 2025 10:10
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 36 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Jun 16 01:01:42 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration



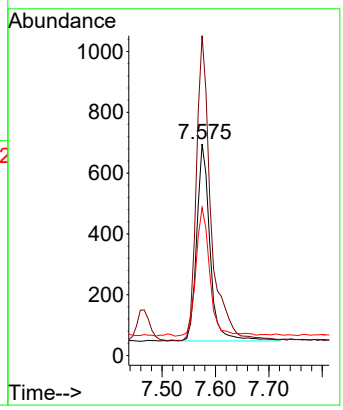


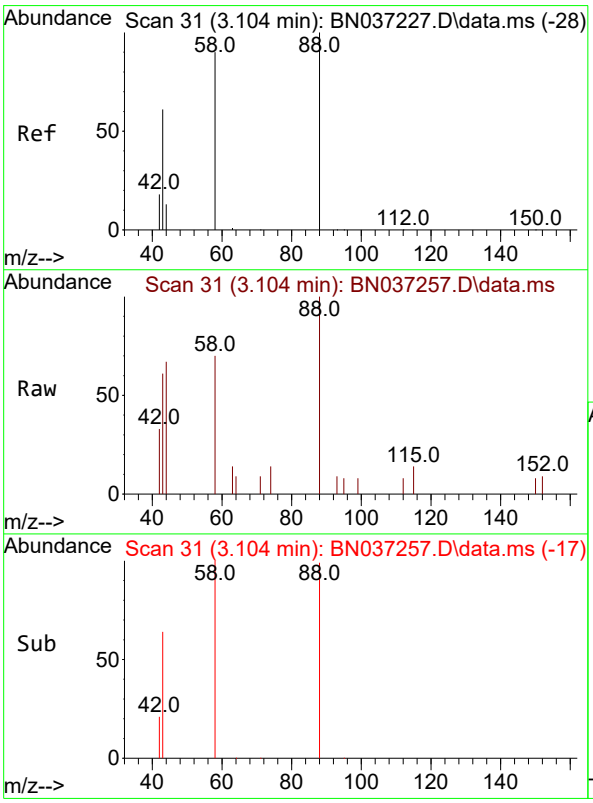
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 1123

Ion	Ratio	Lower	Upper
152	100		
150	151.1	125.2	187.8
115	70.0	58.4	87.6

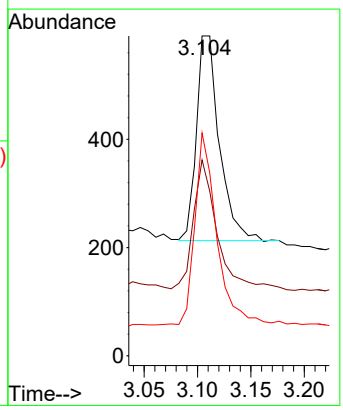


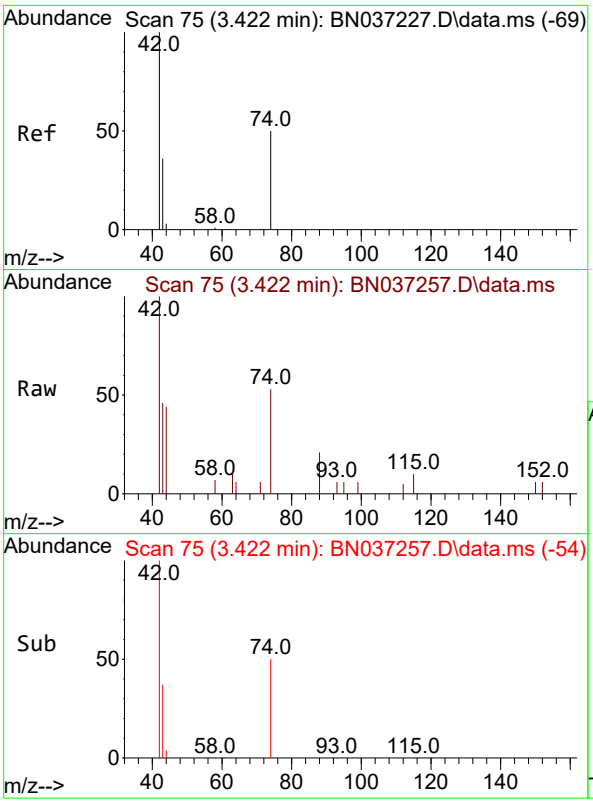


#2
1,4-Dioxane
Concen: 0.367 ng
RT: 3.104 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

Tgt Ion: 88 Resp: 565

Ion	Ratio	Lower	Upper
88	100		
43	63.7	52.6	79.0
58	89.4	73.5	110.3



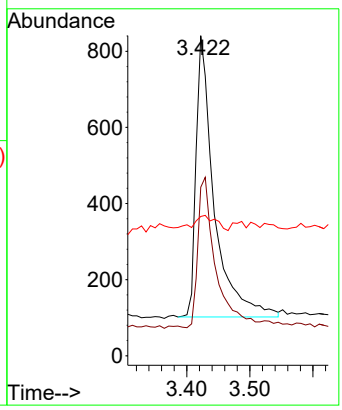


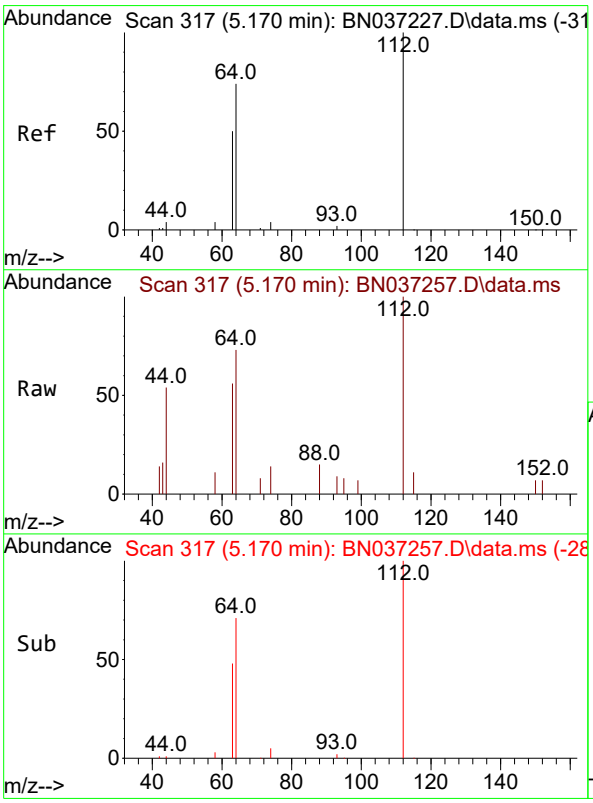
#3
n-Nitrosodimethylamine
Concen: 0.418 ng
RT: 3.422 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 42 Resp: 1468

Ion	Ratio	Lower	Upper
42	100		
74	52.7	44.6	66.8
44	7.5	3.5	5.3#

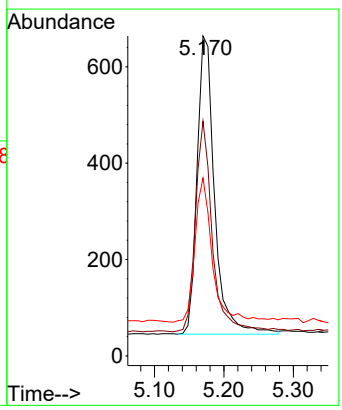


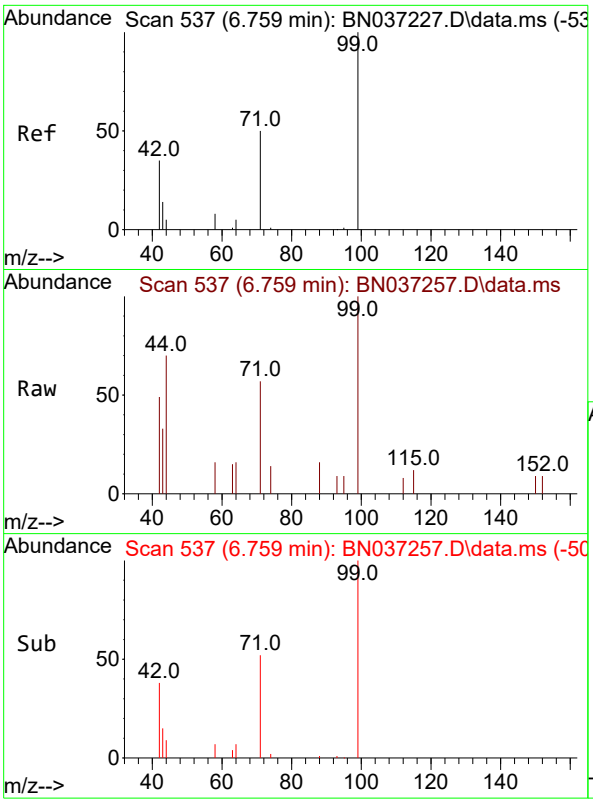


#4
2-Fluorophenol
Concen: 0.393 ng
RT: 5.170 min Scan# 317
Delta R.T. 0.000 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

Tgt Ion:112 Resp: 1085

Ion	Ratio	Lower	Upper
112	100		
64	68.8	57.2	85.8
63	48.2	39.8	59.6



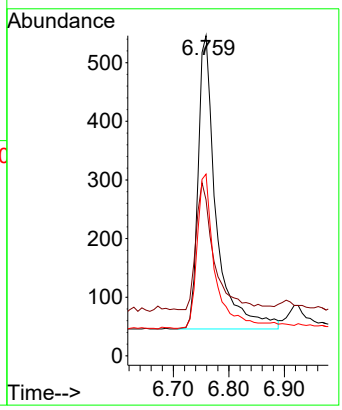


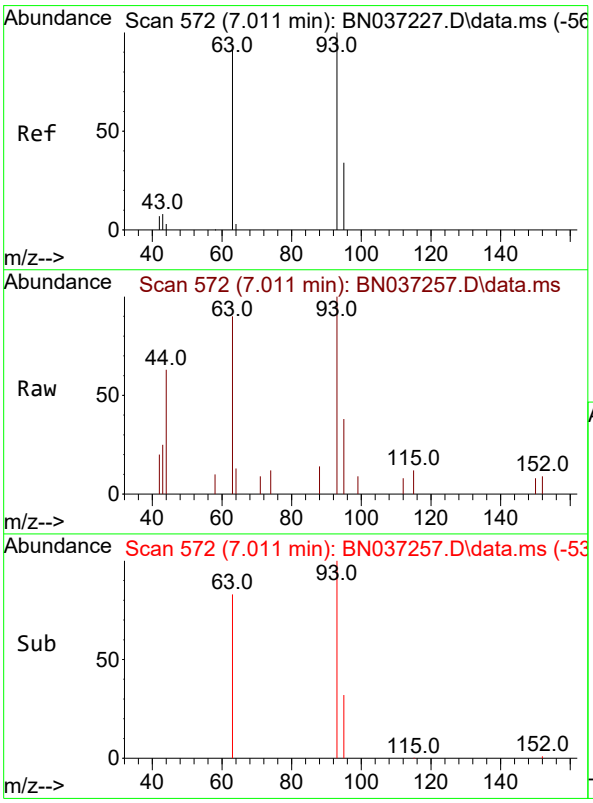
#5
Phenol-d6
Concen: 0.388 ng
RT: 6.759 min Scan# 5
Delta R.T. -0.000 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 99 Resp: 1128

Ion	Ratio	Lower	Upper
99	100		
42	43.6	36.2	54.4
71	51.4	42.4	63.6

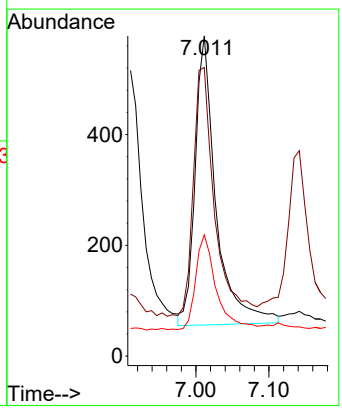


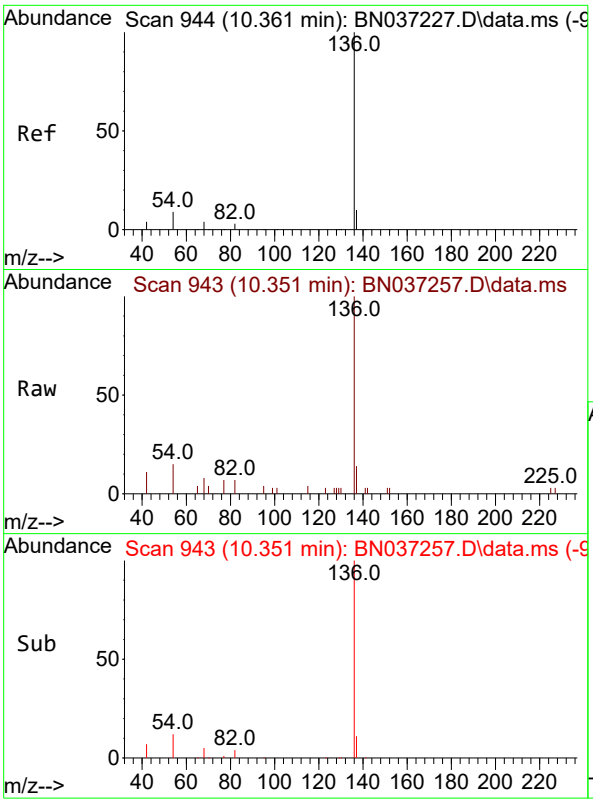


#6
bis(2-Chloroethyl)ether
Concen: 0.400 ng
RT: 7.011 min Scan# 572
Delta R.T. -0.000 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

Tgt Ion: 93 Resp: 1041

Ion	Ratio	Lower	Upper
93	100		
63	86.9	75.2	112.8
95	31.9	28.3	42.5



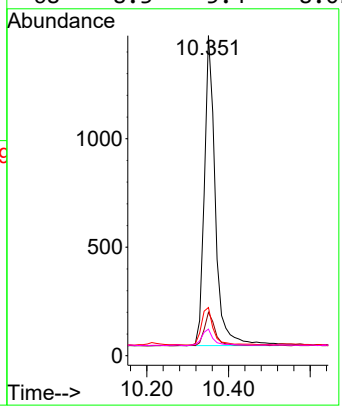


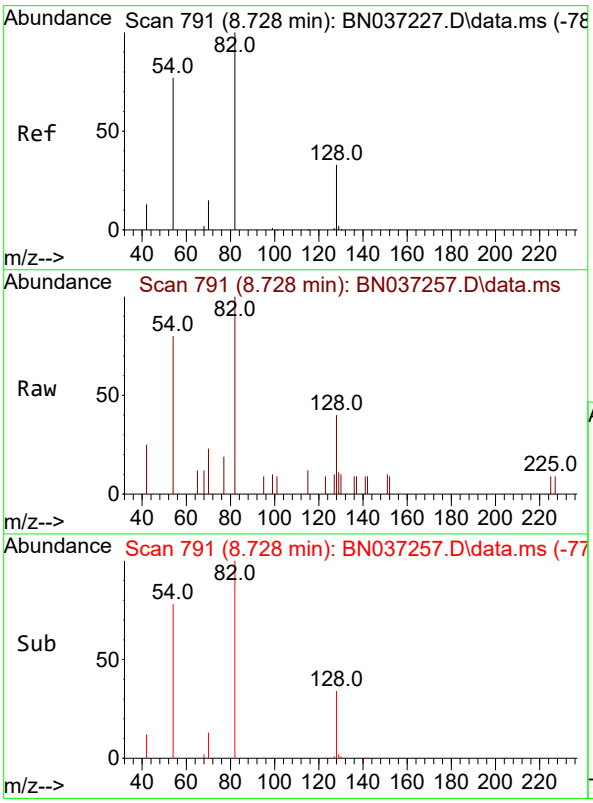
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:136 Resp: 2673

Ion	Ratio	Lower	Upper
136	100		
137	13.6	10.6	15.8
54	15.1	9.2	13.8#
68	8.3	5.4	8.0#

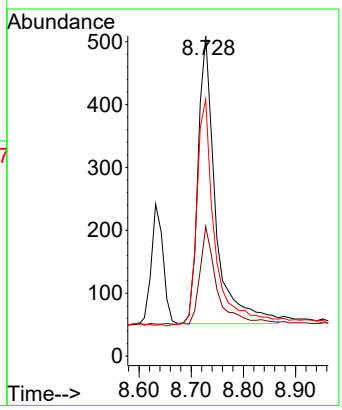


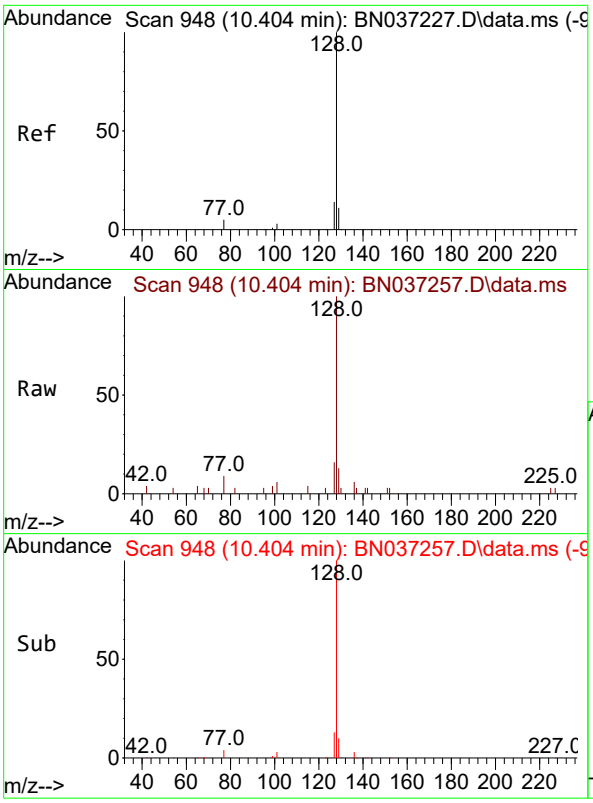


#8
Nitrobenzene-d5
Concen: 0.406 ng
RT: 8.728 min Scan# 791
Delta R.T. -0.000 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

Tgt Ion: 82 Resp: 1072

Ion	Ratio	Lower	Upper
82	100		
128	40.5	31.2	46.8
54	80.2	63.3	94.9



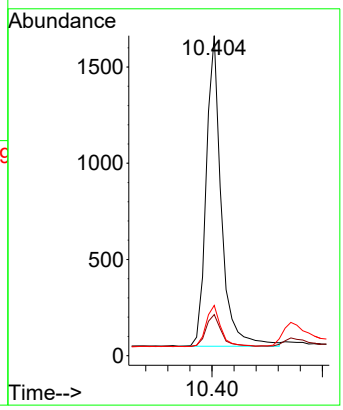


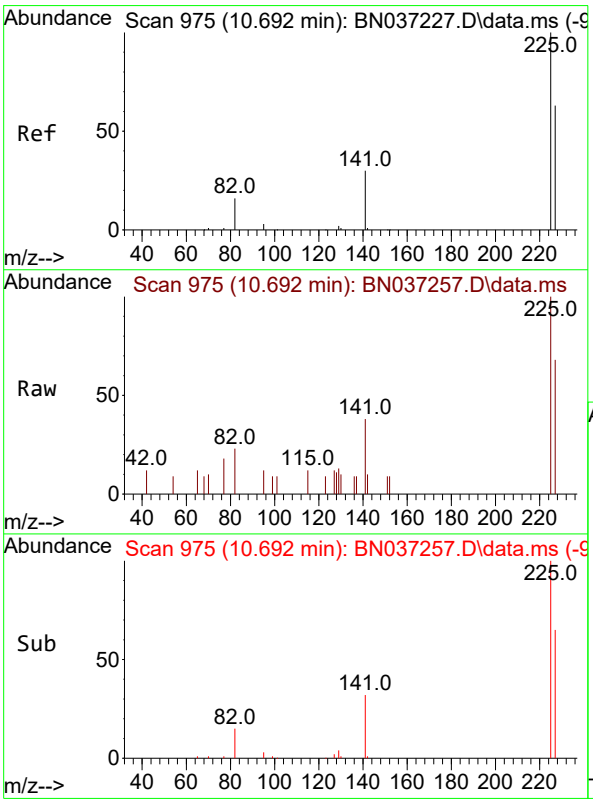
#9
Naphthalene
Concen: 0.396 ng
RT: 10.404 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:128 Resp: 3065

Ion	Ratio	Lower	Upper
128	100		
129	12.9	10.7	16.1
127	15.7	12.6	19.0

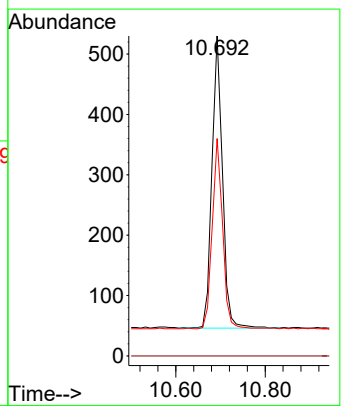


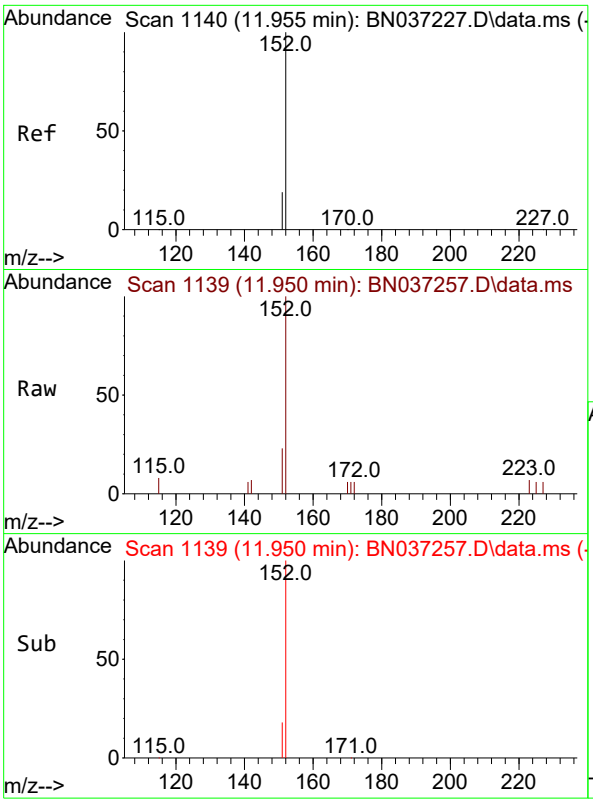


#10
Hexachlorobutadiene
Concen: 0.419 ng
RT: 10.692 min Scan# 975
Delta R.T. -0.000 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

Tgt Ion:225 Resp: 789

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.1	49.2	73.8



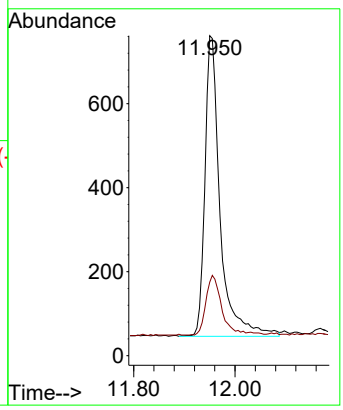


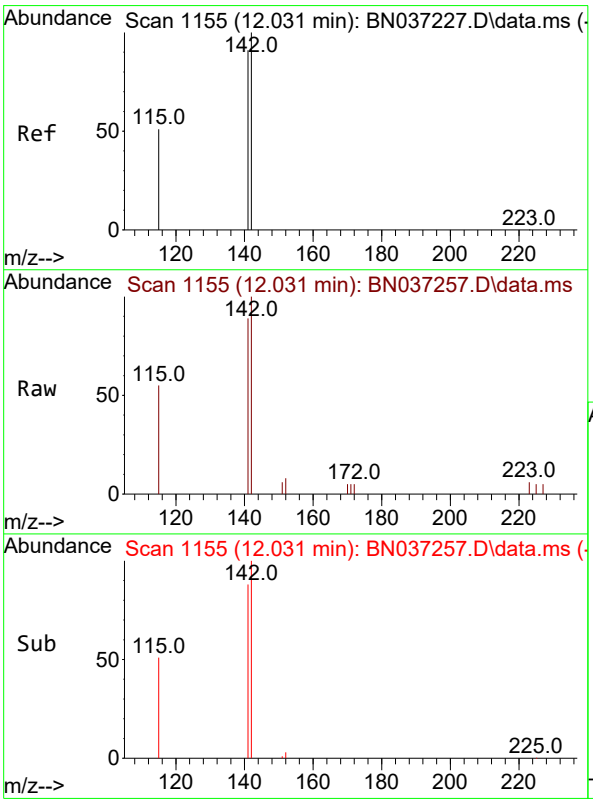
#11
2-Methylnaphthalene-d10
Concen: 0.415 ng
RT: 11.950 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 1489

Ion	Ratio	Lower	Upper
152	100		
151	20.5	17.9	26.9

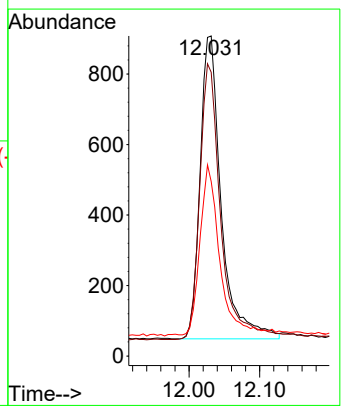


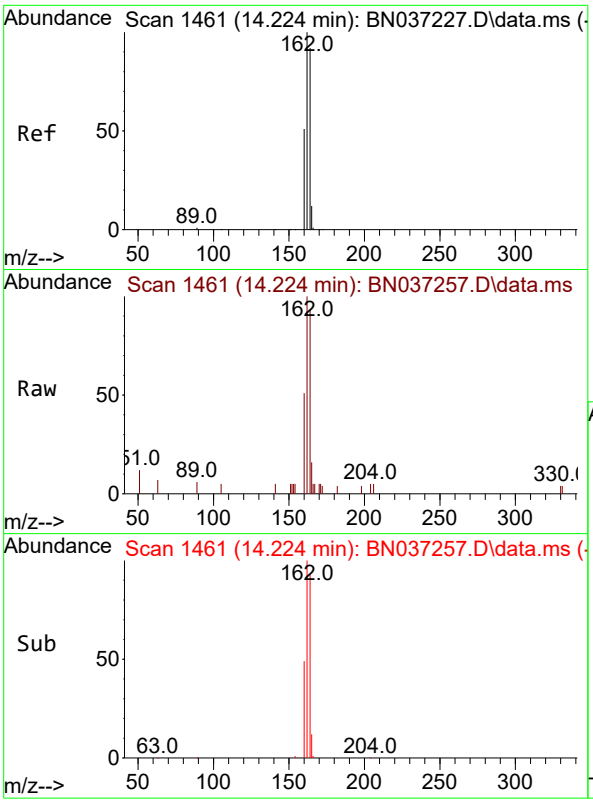


#12
2-Methylnaphthalene
Concen: 0.380 ng
RT: 12.031 min Scan# 1155
Delta R.T. -0.000 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

Tgt Ion:142 Resp: 1789

Ion	Ratio	Lower	Upper
142	100		
141	88.7	73.0	109.6
115	54.5	43.3	64.9



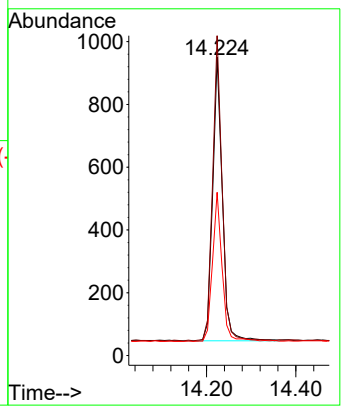


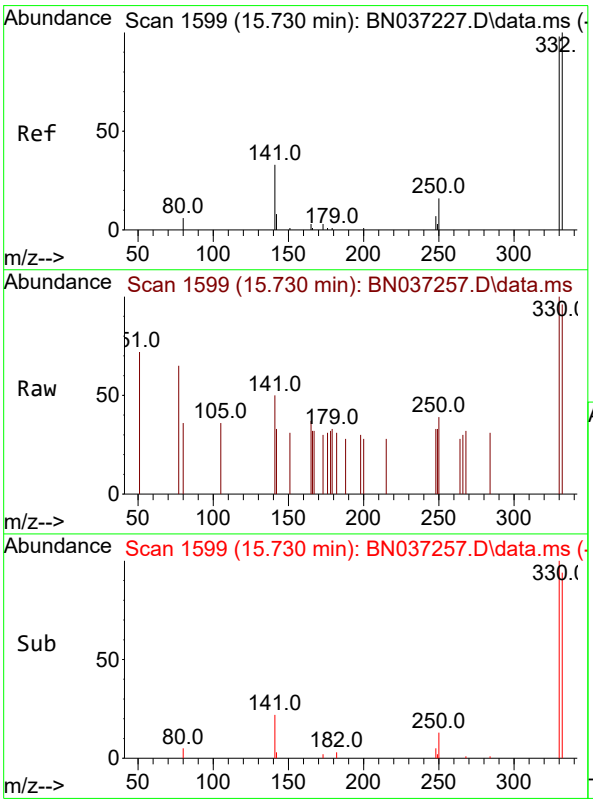
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:164 Resp: 1354

Ion	Ratio	Lower	Upper
164	100		
162	107.2	86.7	130.1
160	54.7	45.8	68.6

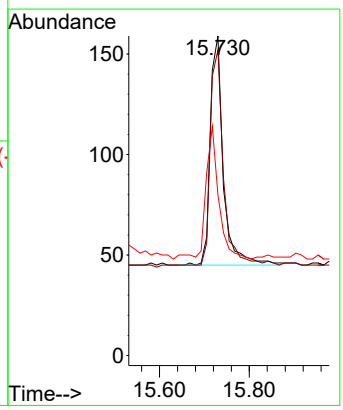


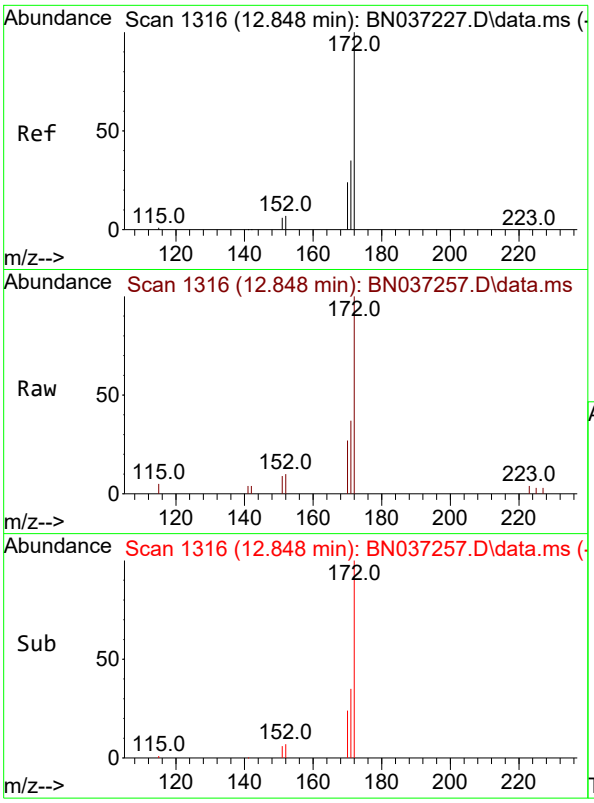


#14
2,4,6-Tribromophenol
Concen: 0.407 ng
RT: 15.730 min Scan# 1599
Delta R.T. 0.000 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

Tgt Ion:330 Resp: 229

Ion	Ratio	Lower	Upper
330	100		
332	94.8	74.9	112.3
141	57.2	45.1	67.7



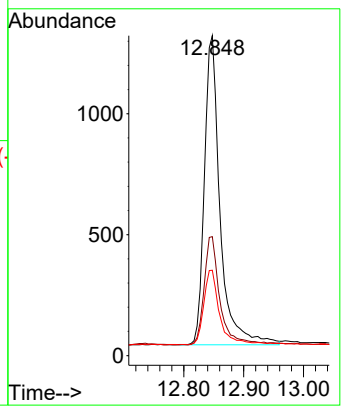


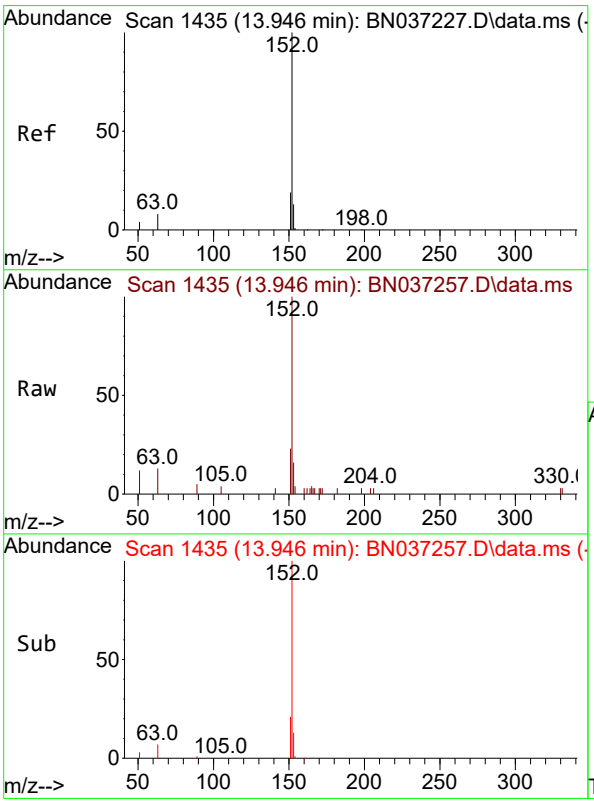
#15
2-Fluorobiphenyl
Concen: 0.408 ng
RT: 12.848 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:172 Resp: 2320

Ion	Ratio	Lower	Upper
172	100		
171	37.2	29.8	44.8
170	26.7	21.1	31.7

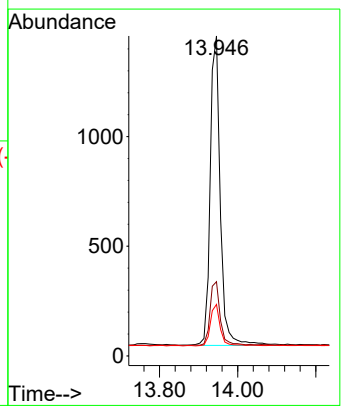


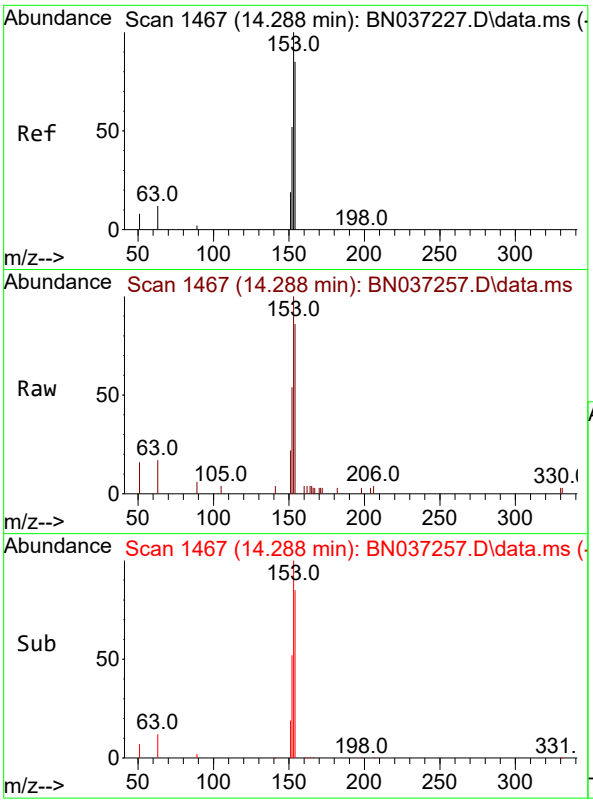


#16
Acenaphthylene
Concen: 0.382 ng
RT: 13.946 min Scan# 1435
Delta R.T. -0.000 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

Tgt Ion:152 Resp: 2535

Ion	Ratio	Lower	Upper
152	100		
151	20.5	15.7	23.5
153	13.2	10.7	16.1



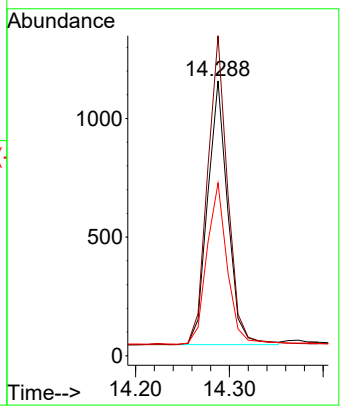


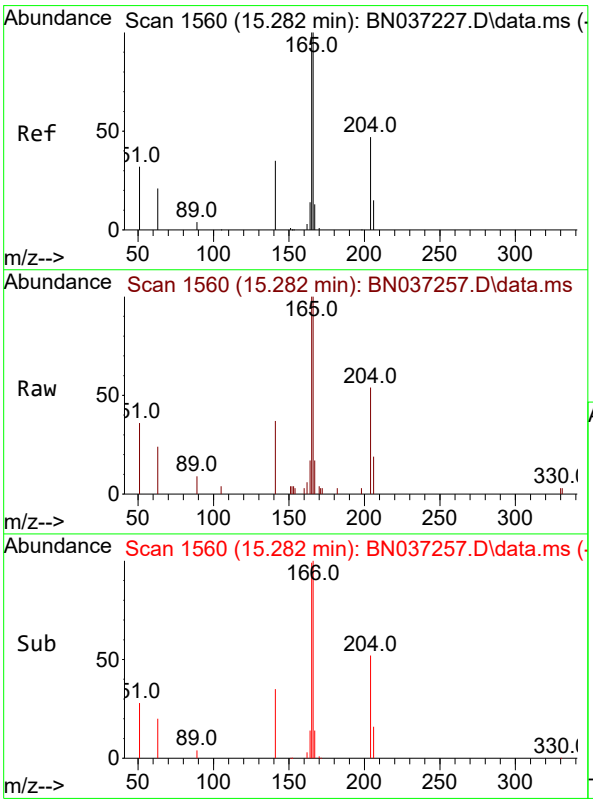
#17
Acenaphthene
Concen: 0.387 ng
RT: 14.288 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:154 Resp: 1658

Ion	Ratio	Lower	Upper
154	100		
153	117.9	94.6	141.8
152	62.4	49.6	74.4

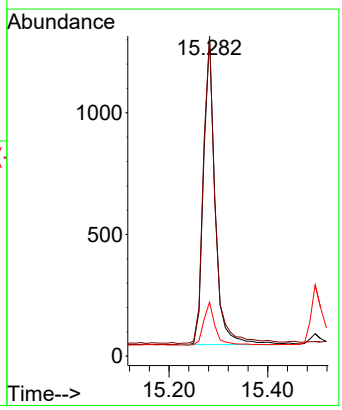


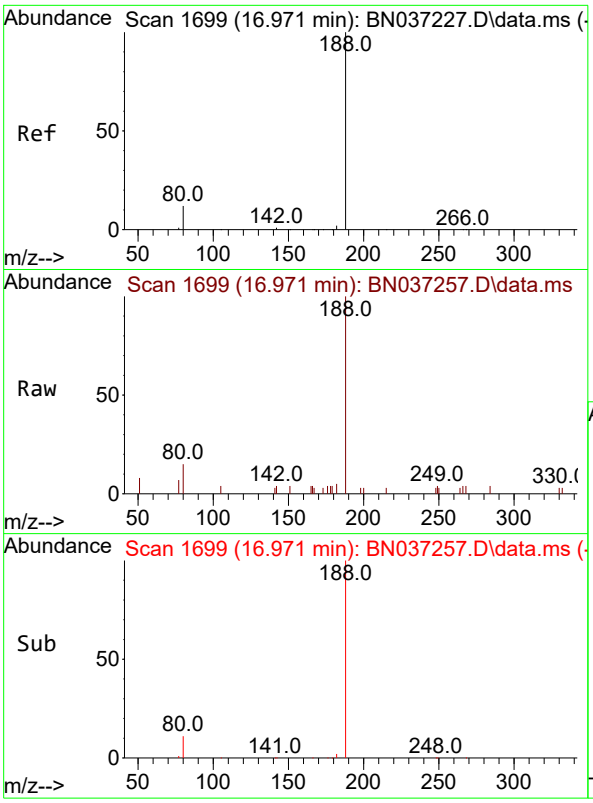


#18
Fluorene
Concen: 0.374 ng
RT: 15.282 min Scan# 1560
Delta R.T. -0.000 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

Tgt Ion:166 Resp: 2058

Ion	Ratio	Lower	Upper
166	100		
165	102.0	79.8	119.6
167	14.1	10.8	16.2



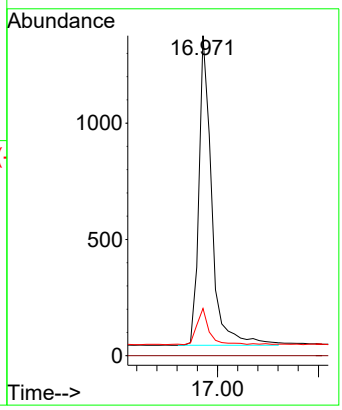


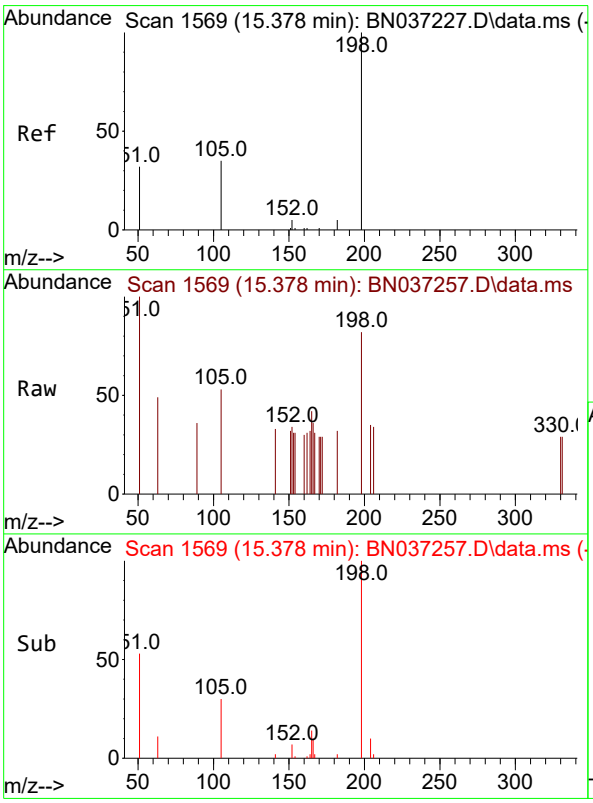
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:188 Resp: 2362

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	14.8	12.2	18.4

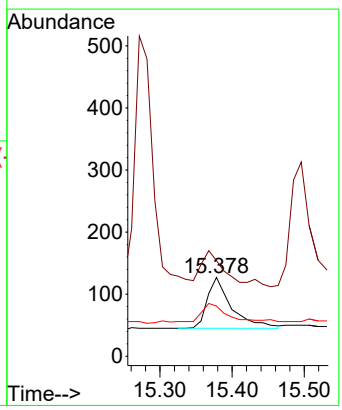


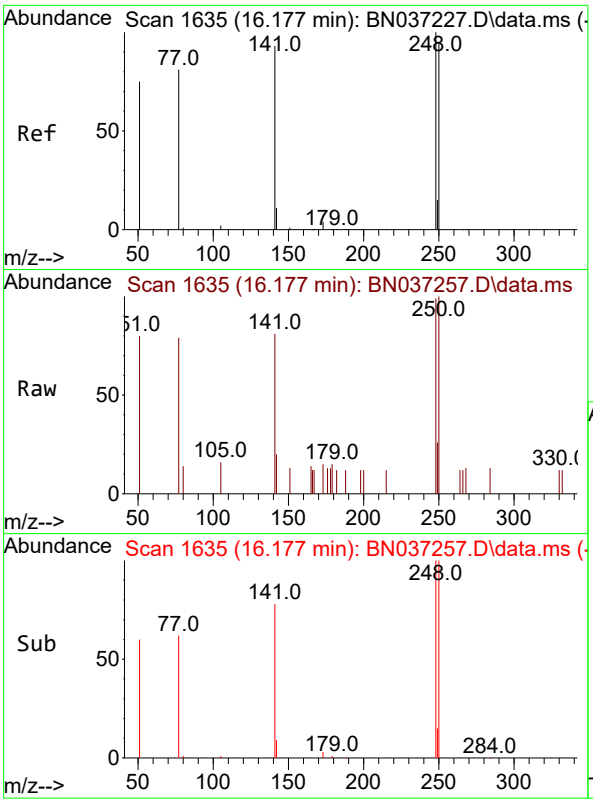


#20
4,6-Dinitro-2-methylphenol
Concen: 0.426 ng
RT: 15.378 min Scan# 1569
Delta R.T. 0.000 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

Tgt Ion:198 Resp: 192

Ion	Ratio	Lower	Upper
198	100		
51	121.3	111.2	166.8
105	63.8	54.0	81.0



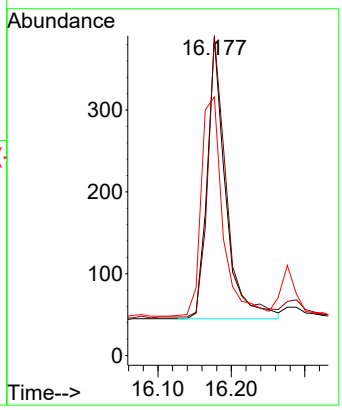


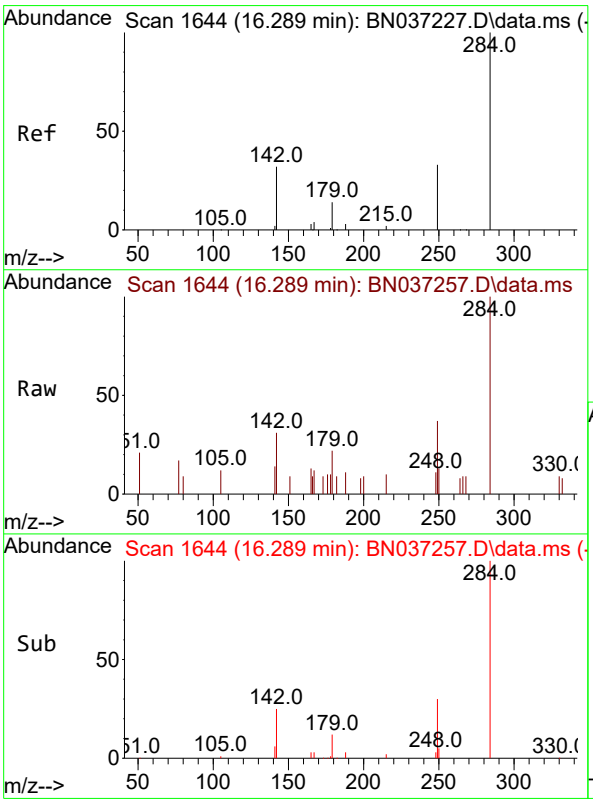
#21
4-Bromophenyl-phenylether
Concen: 0.385 ng
RT: 16.177 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:248 Resp: 592

Ion	Ratio	Lower	Upper
248	100		
250	100.8	76.8	115.2
141	81.4	75.6	113.4

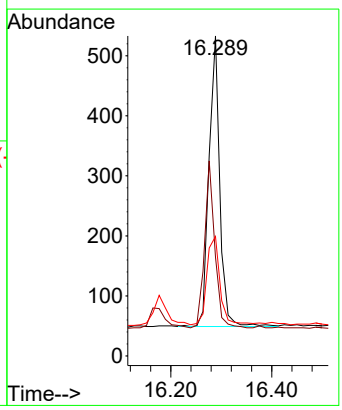


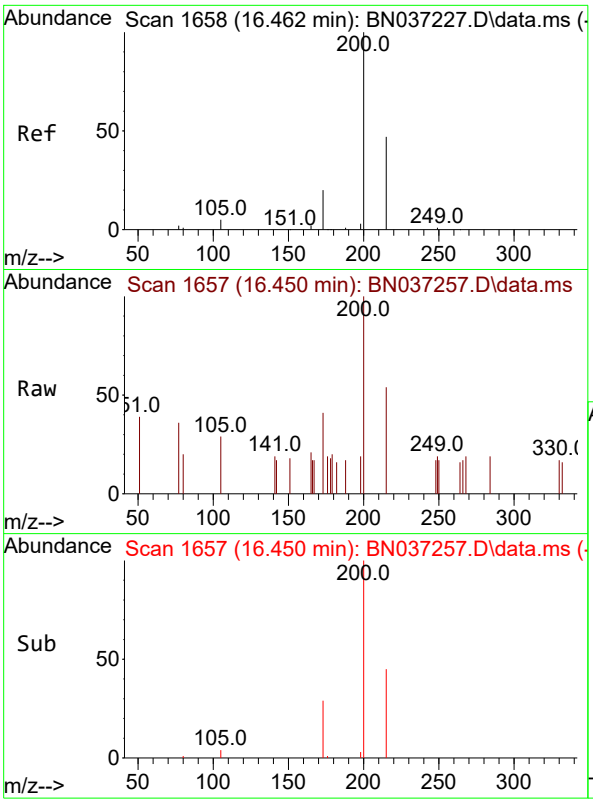


#22
Hexachlorobenzene
Concen: 0.404 ng
RT: 16.289 min Scan# 1644
Delta R.T. -0.000 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

Tgt Ion:284 Resp: 720

Ion	Ratio	Lower	Upper
284	100		
142	54.0	43.8	65.6
249	36.7	28.4	42.6



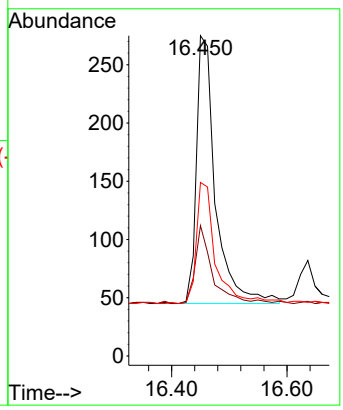


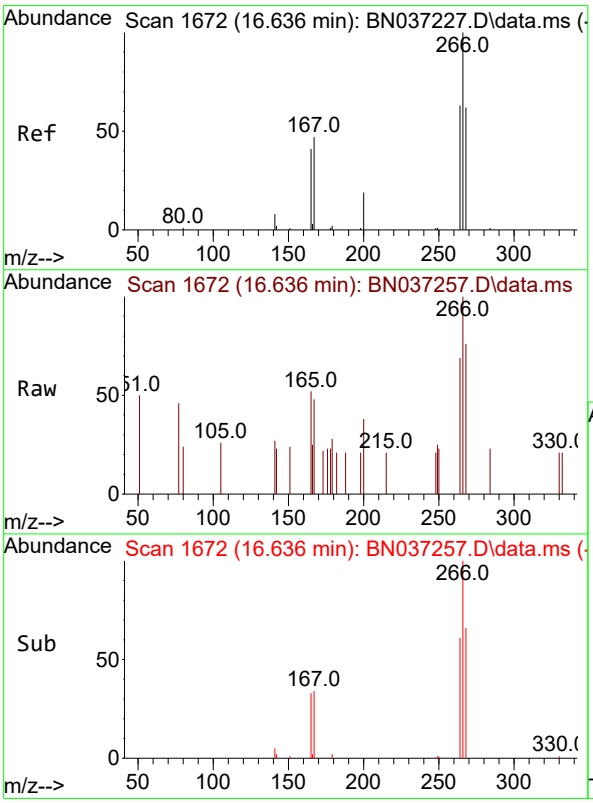
#23
Atrazine
Concen: 0.386 ng
RT: 16.450 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:200 Resp: 530

Ion	Ratio	Lower	Upper
200	100		
173	40.7	25.1	37.7#
215	54.2	43.7	65.5

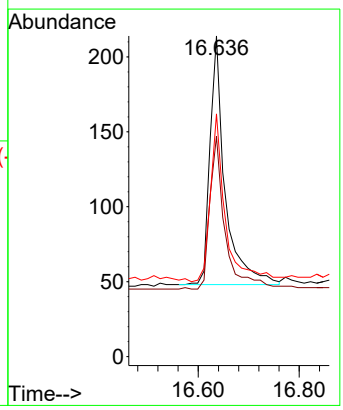


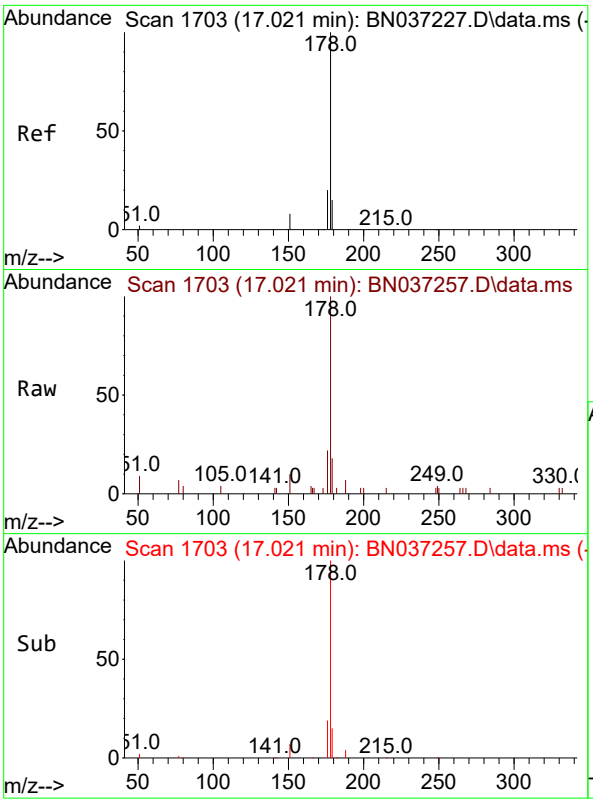


#24
Pentachlorophenol
Concen: 0.392 ng
RT: 16.636 min Scan# 1672
Delta R.T. 0.000 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

Tgt Ion:266 Resp: 343

Ion	Ratio	Lower	Upper
266	100		
264	62.7	49.2	73.8
268	67.6	53.4	80.2



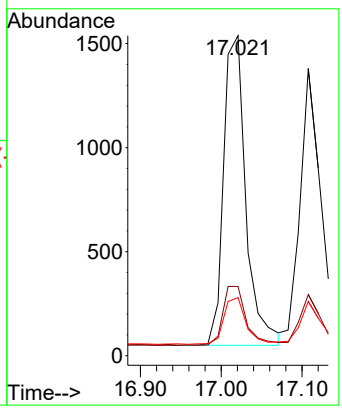


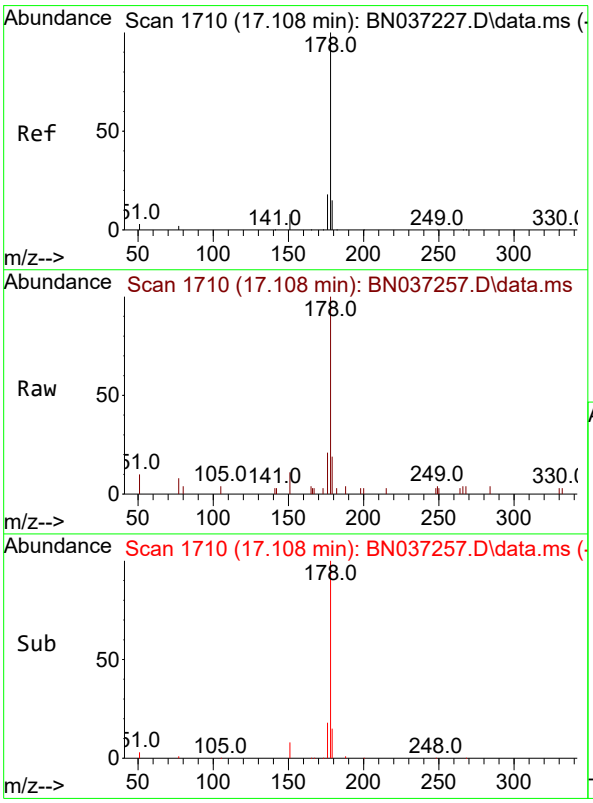
#25
Phenanthrene
Concen: 0.382 ng
RT: 17.021 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:178 Resp: 2864

Ion	Ratio	Lower	Upper
178	100		
176	20.2	16.3	24.5
179	14.8	12.6	18.8

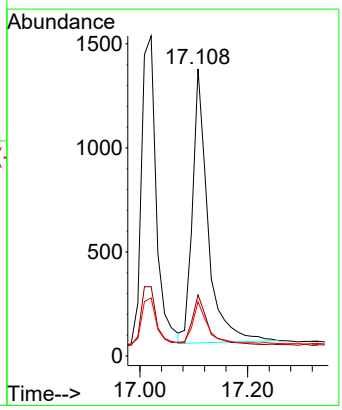


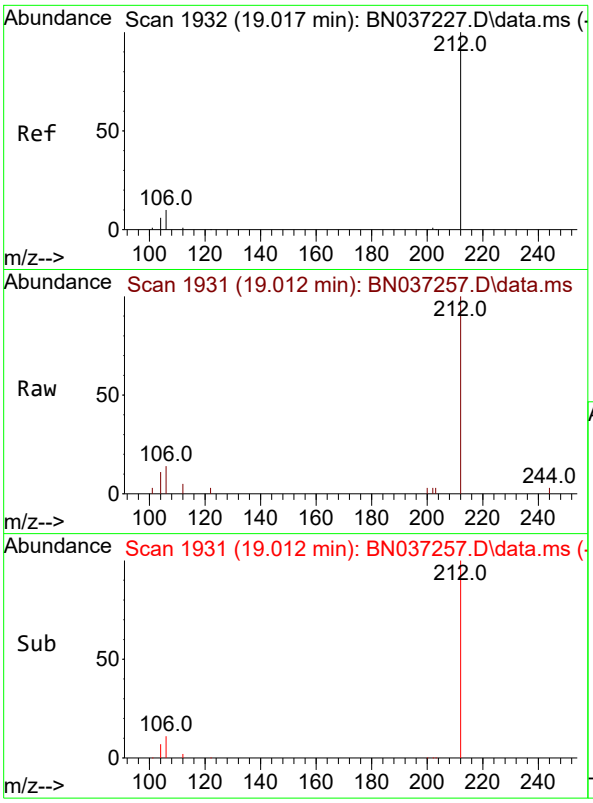


#26
Anthracene
Concen: 0.383 ng
RT: 17.108 min Scan# 1710
Delta R.T. -0.000 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

Tgt Ion:178 Resp: 2628

Ion	Ratio	Lower	Upper
178	100		
176	18.3	15.1	22.7
179	14.5	12.4	18.6



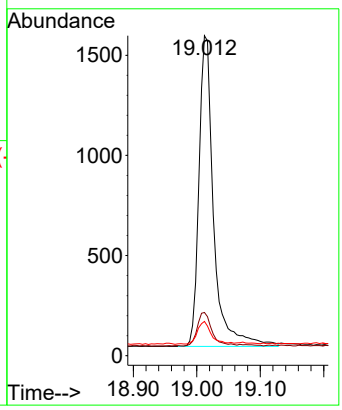


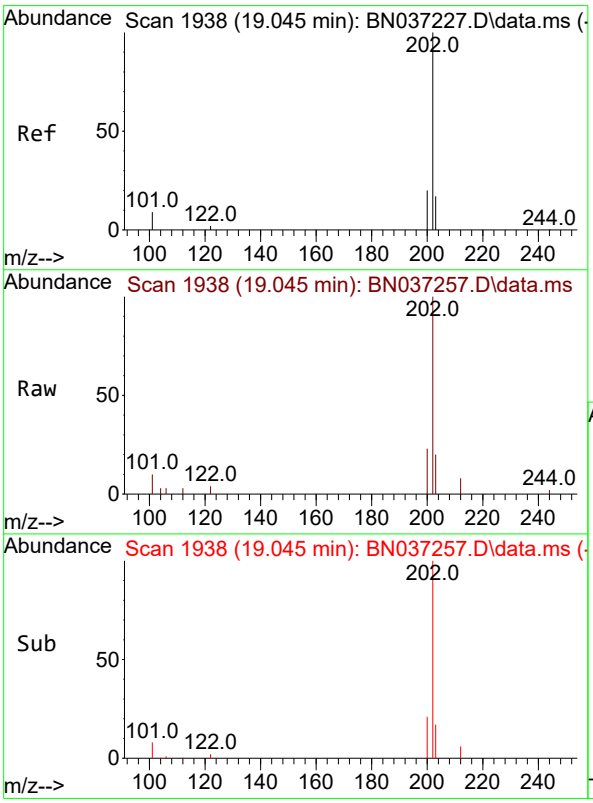
#27
Fluoranthene-d10
Concen: 0.404 ng
RT: 19.012 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:212 Resp: 2499

Ion	Ratio	Lower	Upper
212	100		
106	10.8	9.3	13.9
104	7.0	5.7	8.5

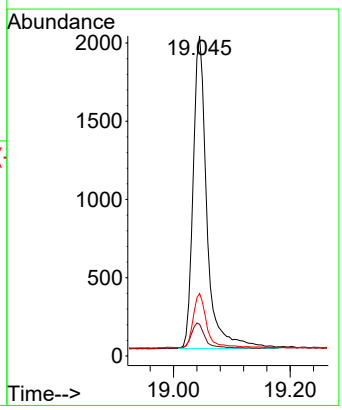


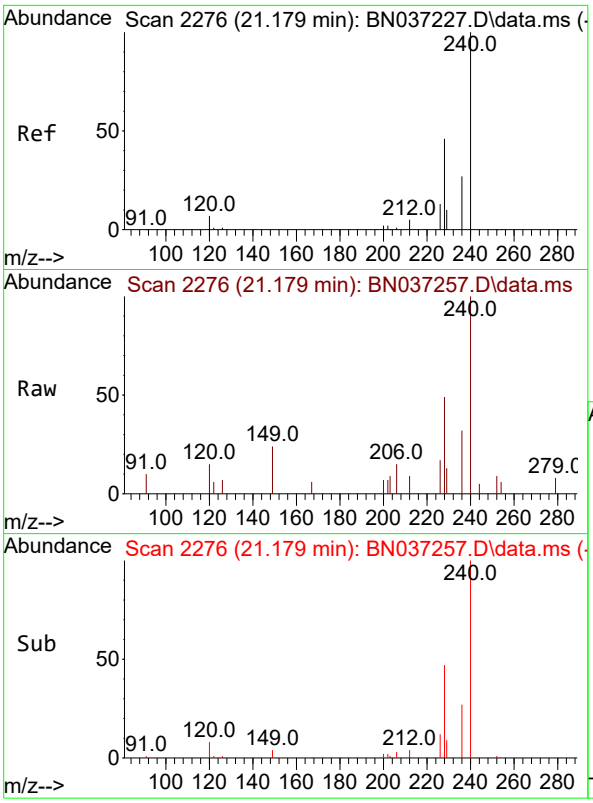


#28
Fluoranthene
Concen: 0.373 ng
RT: 19.045 min Scan# 1938
Delta R.T. -0.000 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

Tgt Ion:202 Resp: 3275

Ion	Ratio	Lower	Upper
202	100		
101	8.4	7.1	10.7
203	16.9	13.0	19.6



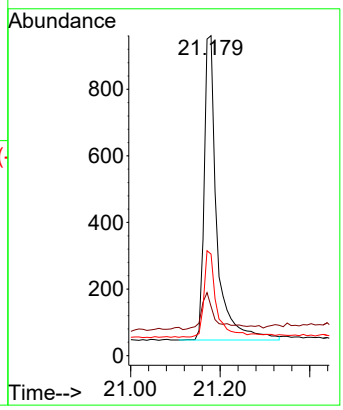


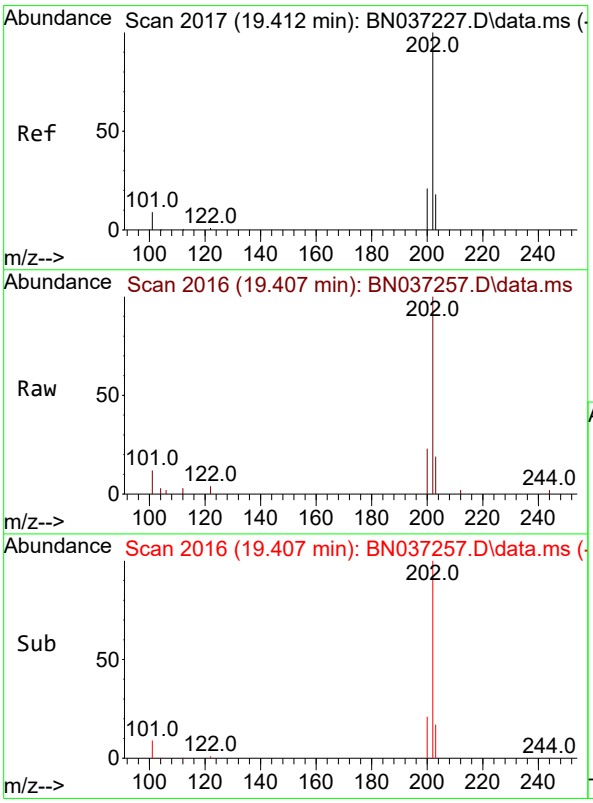
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.179 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:240 Resp: 1800

Ion	Ratio	Lower	Upper
240	100		
120	15.4	11.3	16.9
236	31.7	24.4	36.6

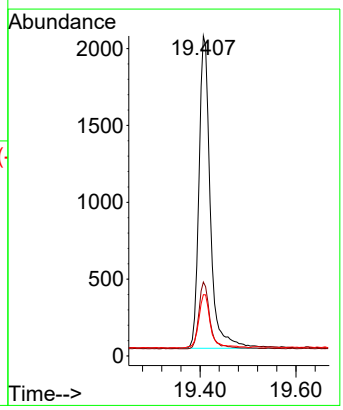


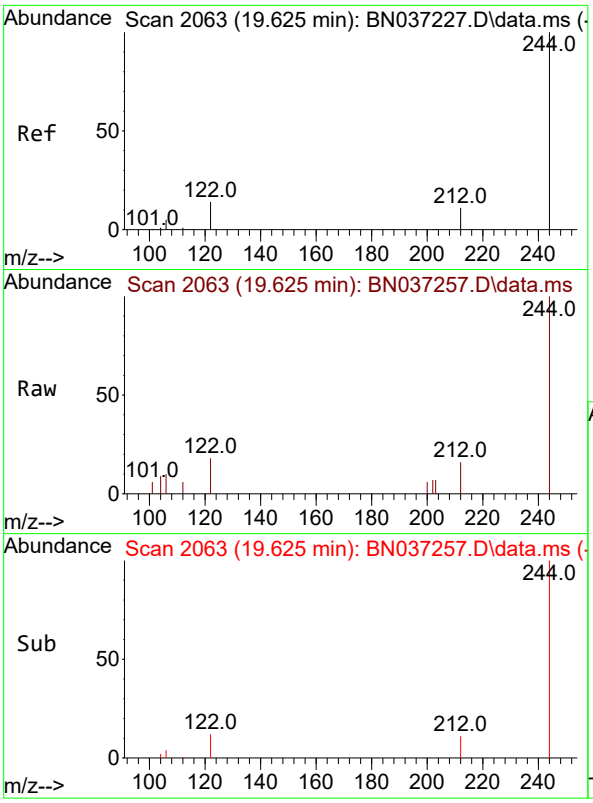


#30
Pyrene
Concen: 0.397 ng
RT: 19.407 min Scan# 2016
Delta R.T. -0.005 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

Tgt Ion:202 Resp: 3356

Ion	Ratio	Lower	Upper
202	100		
200	21.1	17.2	25.8
203	17.7	14.3	21.5



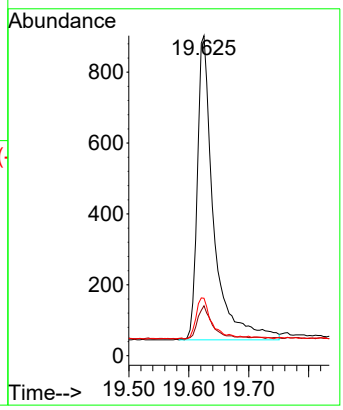


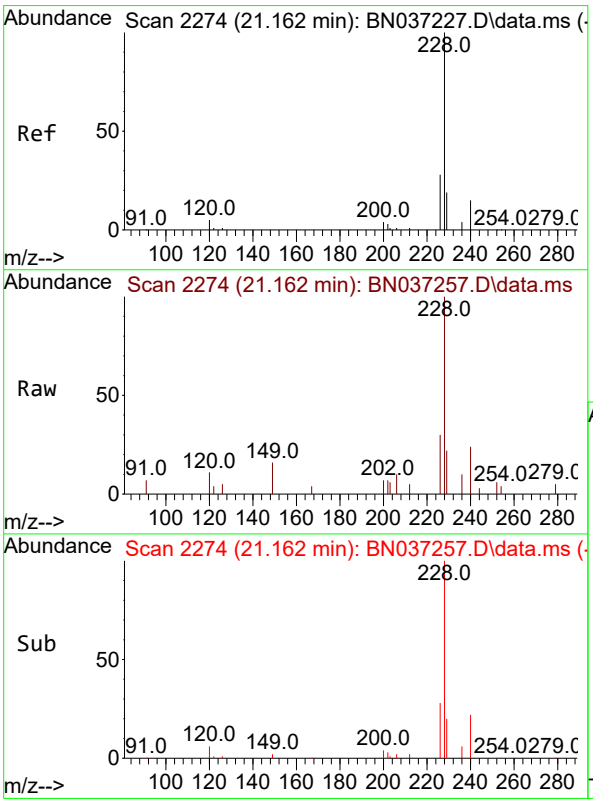
#31
Terphenyl-d14
Concen: 0.400 ng
RT: 19.625 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:244 Resp: 1629

Ion	Ratio	Lower	Upper
244	100		
212	15.6	12.2	18.2
122	17.9	14.3	21.5

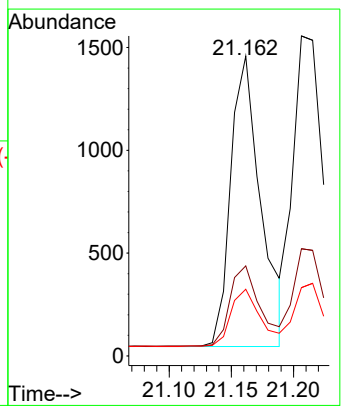


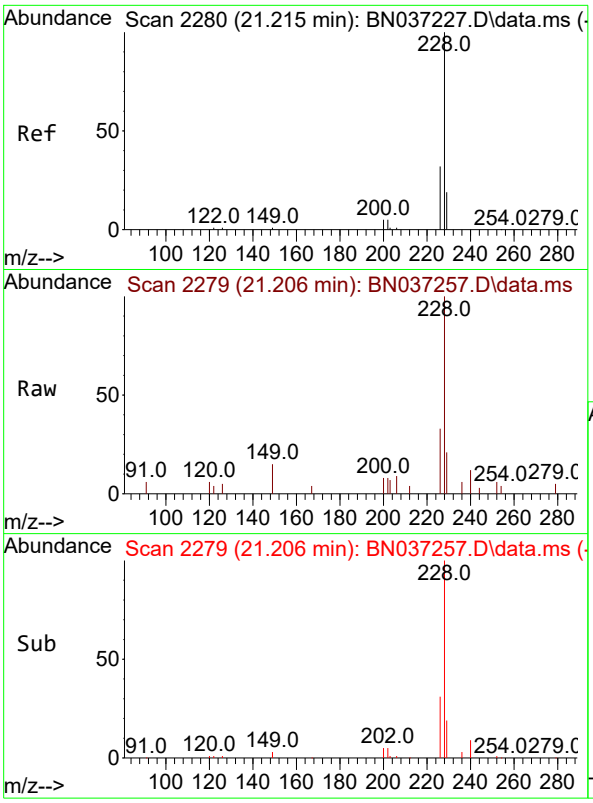


#32
Benzo(a)anthracene
Concen: 0.391 ng
RT: 21.162 min Scan# 2274
Delta R.T. -0.000 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

Tgt Ion:228 Resp: 2378

Ion	Ratio	Lower	Upper
228	100		
226	30.0	23.8	35.8
229	22.2	17.0	25.4



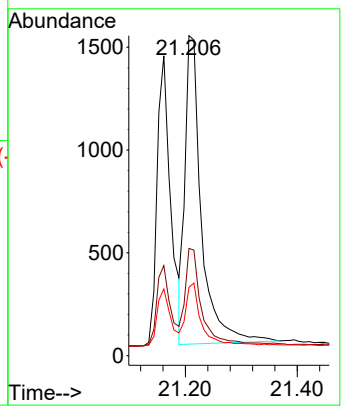


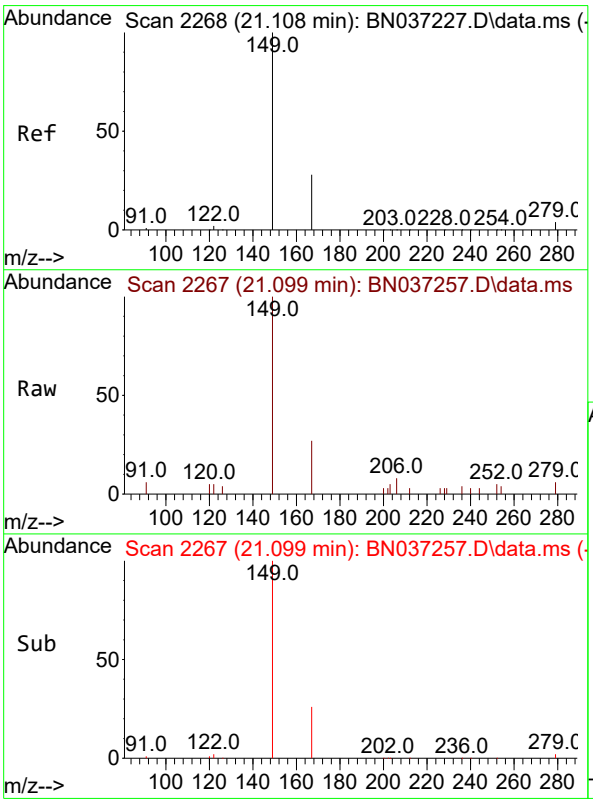
#33
Chrysene
Concen: 0.405 ng
RT: 21.206 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:228 Resp: 3069

Ion	Ratio	Lower	Upper
228	100		
226	33.5	25.8	38.6
229	21.3	17.0	25.4

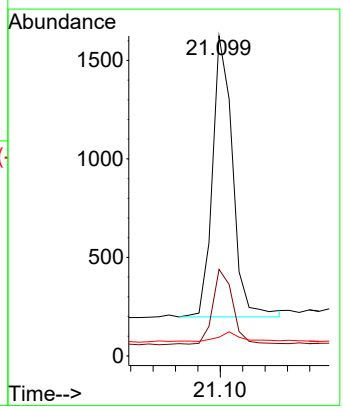


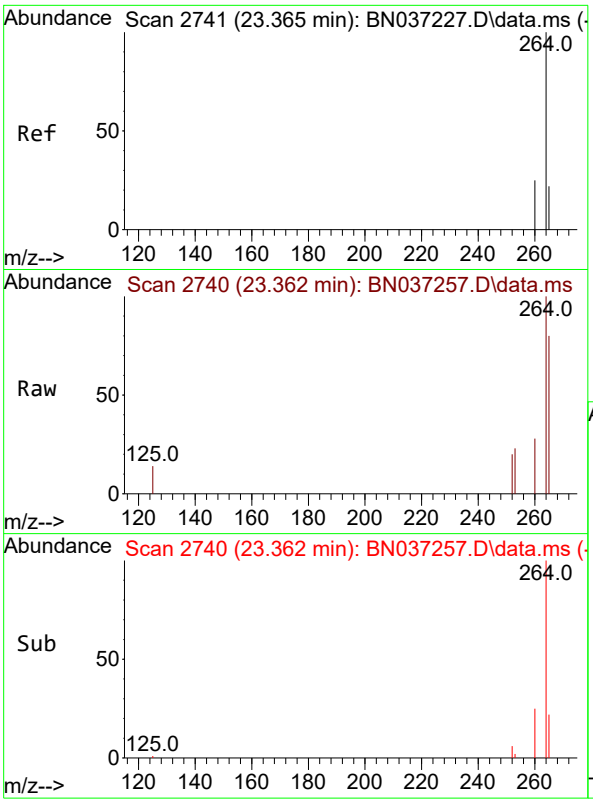


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.393 ng
RT: 21.099 min Scan# 2267
Delta R.T. -0.009 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

Tgt Ion:149 Resp: 1780

Ion	Ratio	Lower	Upper
149	100		
167	26.7	21.3	31.9
279	3.5	3.3	4.9



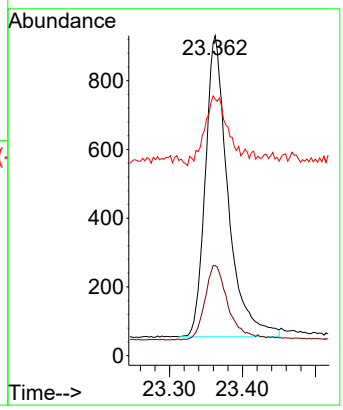


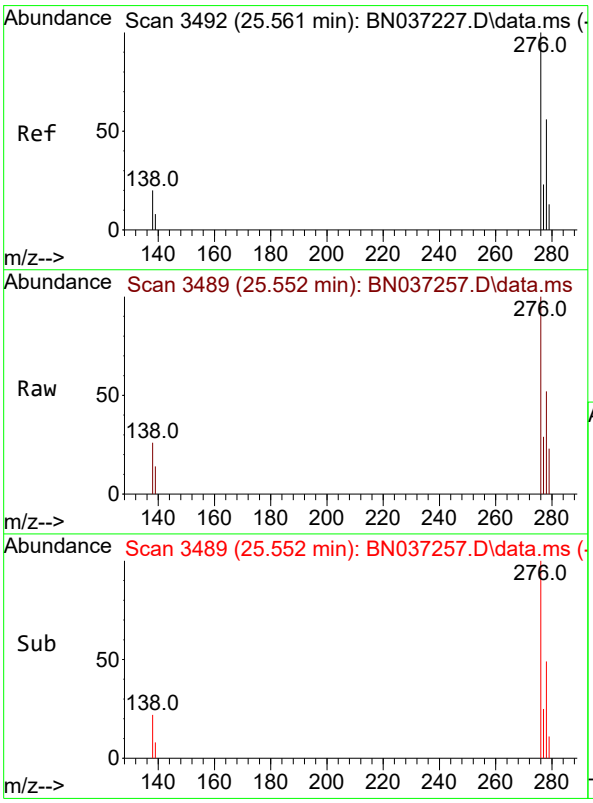
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.362 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:264 Resp: 1888

Ion	Ratio	Lower	Upper
264	100		
260	28.1	22.8	34.2
265	80.2	66.4	99.6

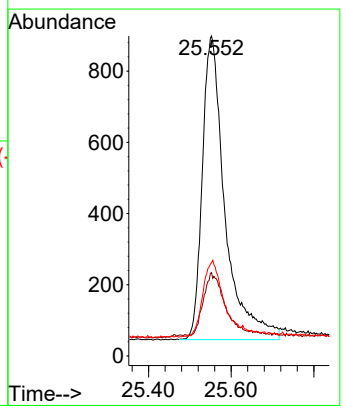


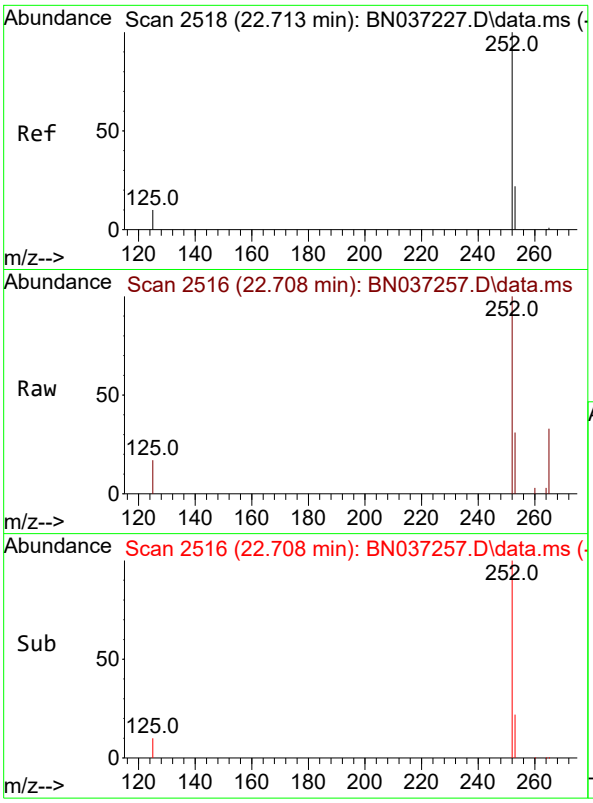


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.427 ng
RT: 25.552 min Scan# 3489
Delta R.T. -0.009 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

Tgt Ion:276 Resp: 3254

Ion	Ratio	Lower	Upper
276	100		
138	19.4	16.8	25.2
277	22.9	19.5	29.3



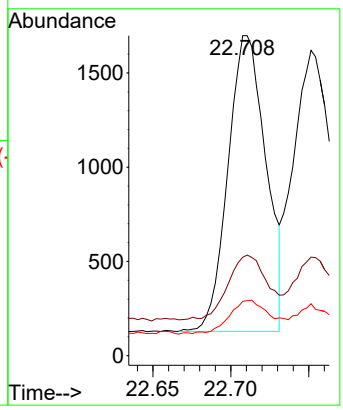


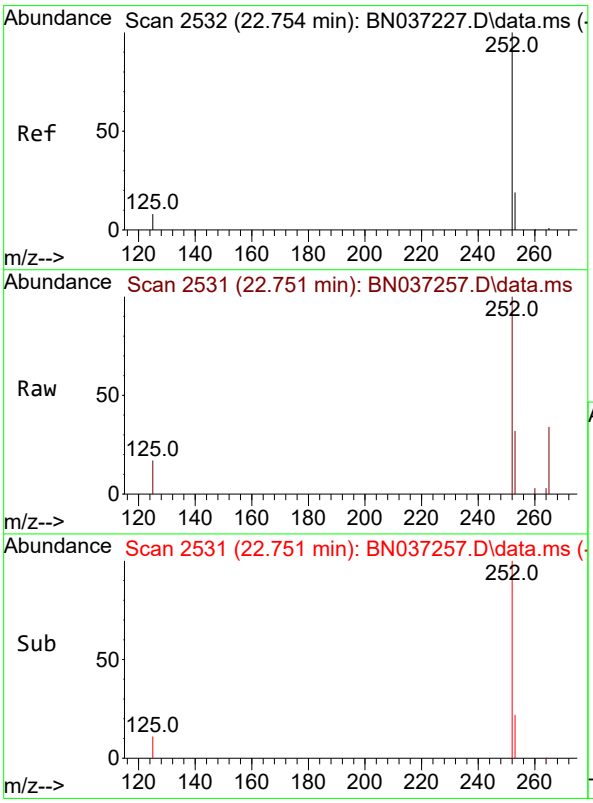
#37
Benzo(b)fluoranthene
Concen: 0.385 ng
RT: 22.708 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:252 Resp: 2661

Ion	Ratio	Lower	Upper
252	100		
253	30.7	24.9	37.3
125	17.0	12.9	19.3

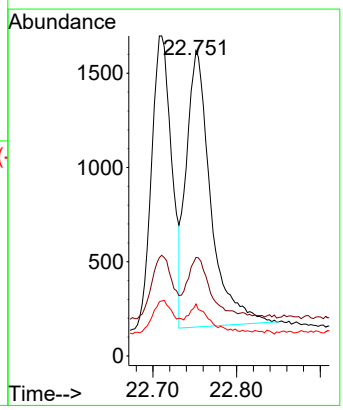


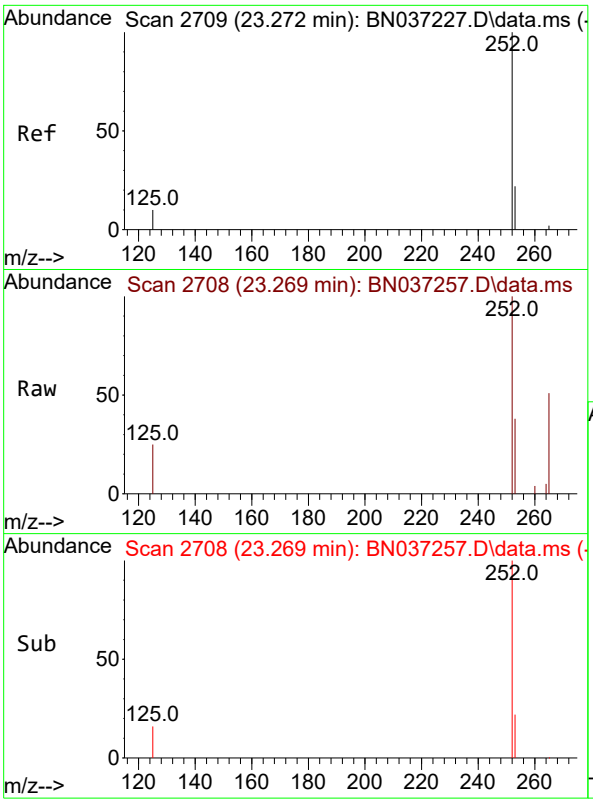


#38
Benzo(k)fluoranthene
Concen: 0.373 ng
RT: 22.751 min Scan# 2531
Delta R.T. -0.003 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

Tgt Ion:252 Resp: 2970

Ion	Ratio	Lower	Upper
252	100		
253	32.3	24.6	37.0
125	17.0	13.4	20.2



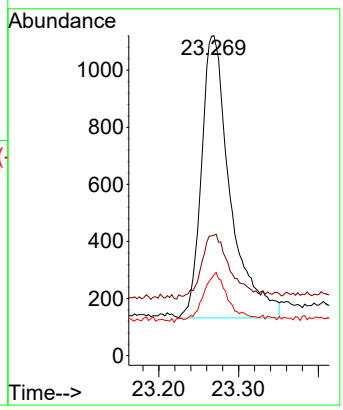


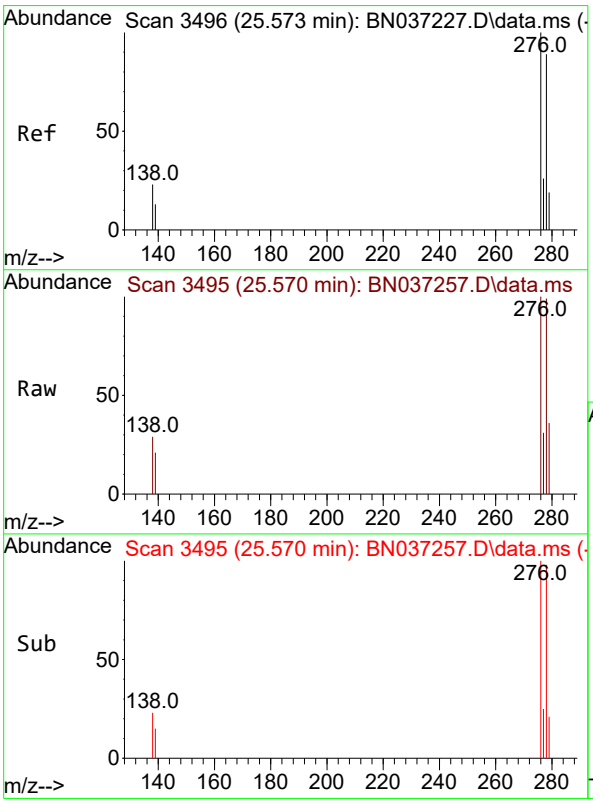
#39
Benzo(a)pyrene
Concen: 0.399 ng
RT: 23.269 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:252 Resp: 2477

Ion	Ratio	Lower	Upper
252	100		
253	37.6	29.4	44.2
125	25.2	16.2	24.2#

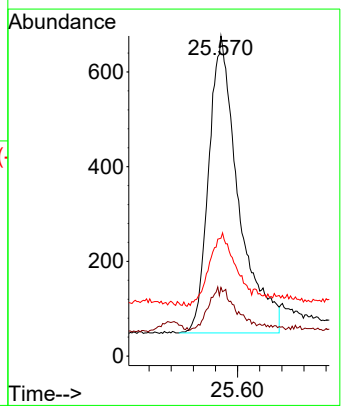


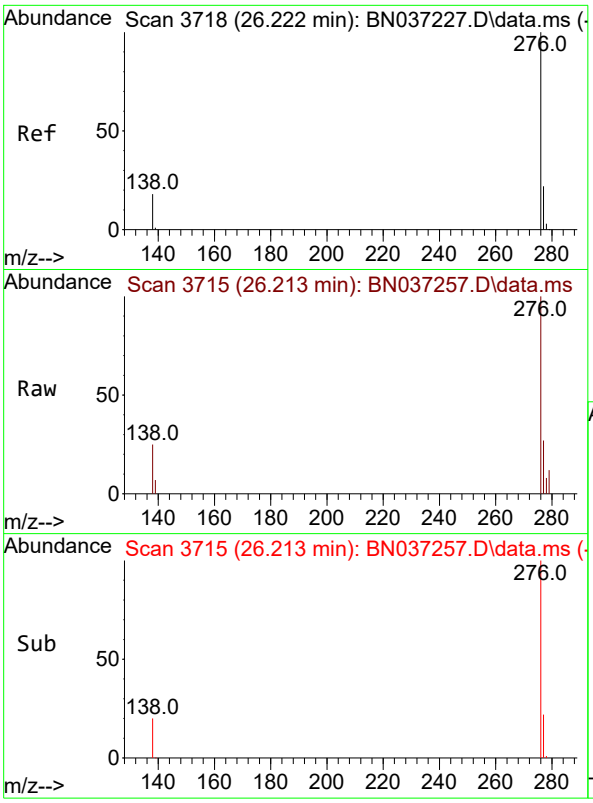


#40
Dibenzo(a,h)anthracene
Concen: 0.404 ng
RT: 25.570 min Scan# 3495
Delta R.T. -0.003 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

Tgt Ion:278 Resp: 2342

Ion	Ratio	Lower	Upper
278	100		
139	21.4	17.8	26.6
279	36.8	31.3	46.9



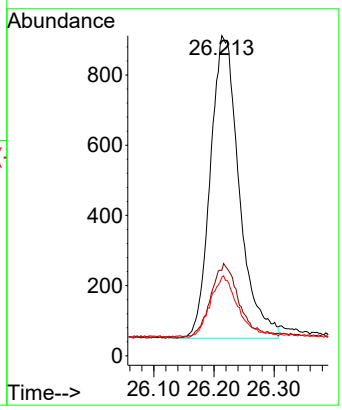


#41
Benzo(g,h,i)perylene
Concen: 0.406 ng
RT: 26.213 min Scan# 3
Delta R.T. -0.009 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:276 Resp: 2869

Ion	Ratio	Lower	Upper
276	100		
277	26.8	22.0	33.0
138	24.6	18.4	27.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037257.D
Acq On : 14 Jun 2025 10:10
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 36 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Jun 16 01:01:42 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 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	87	0.00
2		1,4-Dioxane	0.549	0.503	8.4	84	0.00
3		n-Nitrosodimethylamine	1.250	1.307	-4.6	89	0.00
4	S	2-Fluorophenol	0.982	0.966	1.6	90	0.00
5	S	Phenol-d6	1.035	1.004	3.0	91	0.00
6		bis(2-Chloroethyl)ether	0.927	0.927	0.0	93	0.00
7	I	Naphthalene-d8	1.000	1.000	0.0	83	-0.01
8	S	Nitrobenzene-d5	0.395	0.401	-1.5	87	0.00
9		Naphthalene	1.158	1.147	0.9	84	0.00
10		Hexachlorobutadiene	0.282	0.295	-4.6	82	0.00
11	SURR	2-Methylnaphthalene-d10	0.537	0.557	-3.7	83	0.00
12		2-Methylnaphthalene	0.704	0.669	5.0	79	0.00
13	I	Acenaphthene-d10	1.000	1.000	0.0	78	0.00
14	S	2,4,6-Tribromophenol	0.166	0.169	-1.8	77	0.00
15	S	2-Fluorobiphenyl	1.681	1.713	-1.9	79	0.00
16		Acenaphthylene	1.960	1.872	4.5	78	0.00
17		Acenaphthene	1.265	1.225	3.2	77	0.00
18		Fluorene	1.625	1.520	6.5	74	0.00
19	I	Phenanthrene-d10	1.000	1.000	0.0	74	0.00
20		4,6-Dinitro-2-methylphenol	0.092	0.081	12.0	91	0.00
21		4-Bromophenyl-phenylether	0.261	0.251	3.8	76	0.00
22		Hexachlorobenzene	0.302	0.305	-1.0	72	0.00
23		Atrazine	0.232	0.224	3.4	75	-0.01
24		Pentachlorophenol	0.148	0.145	2.0	86	0.00
25		Phenanthrene	1.269	1.213	4.4	76	0.00
26		Anthracene	1.161	1.113	4.1	76	0.00
27	SURR	Fluoranthene-d10	1.046	1.058	-1.1	74	0.00
28		Fluoranthene	1.485	1.387	6.6	73	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	79	0.00
30		Pyrene	1.881	1.864	0.9	75	0.00
31	S	Terphenyl-d14	0.904	0.905	-0.1	75	0.00
32		Benzo(a)anthracene	1.351	1.321	2.2	85	0.00
33		Chrysene	1.683	1.705	-1.3	79	0.00
34		Bis(2-ethylhexyl)phthalate	1.006	0.989	1.7	76	0.00
35	I	Perylene-d12	1.000	1.000	0.0	88	0.00
36		Indeno(1,2,3-cd)pyrene	1.613	1.724	-6.9	100	0.00
37		Benzo(b)fluoranthene	1.463	1.409	3.7	90	0.00
38		Benzo(k)fluoranthene	1.689	1.573	6.9	85	0.00
39	C	Benzo(a)pyrene	1.316	1.312	0.3	93	0.00
40		Dibenzo(a,h)anthracene	1.227	1.240	-1.1	104	0.00
41		Benzo(g,h,i)perylene	1.496	1.520	-1.6	93	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037257.D
Acq On : 14 Jun 2025 10:10
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 36 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Jun 16 01:01:42 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 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	0.400	0.400	0.0	87	0.00
2		1,4-Dioxane	0.400	0.367	8.3	84	0.00
3		n-Nitrosodimethylamine	0.400	0.418	-4.5	89	0.00
4	S	2-Fluorophenol	0.400	0.393	1.8	90	0.00
5	S	Phenol-d6	0.400	0.388	3.0	91	0.00
6		bis(2-Chloroethyl)ether	0.400	0.400	0.0	93	0.00
7	I	Naphthalene-d8	0.400	0.400	0.0	83	-0.01
8	S	Nitrobenzene-d5	0.400	0.406	-1.5	87	0.00
9		Naphthalene	0.400	0.396	1.0	84	0.00
10		Hexachlorobutadiene	0.400	0.419	-4.7	82	0.00
11	SURR	2-Methylnaphthalene-d10	0.400	0.415	-3.7	83	0.00
12		2-Methylnaphthalene	0.400	0.380	5.0	79	0.00
13	I	Acenaphthene-d10	0.400	0.400	0.0	78	0.00
14	S	2,4,6-Tribromophenol	0.400	0.407	-1.7	77	0.00
15	S	2-Fluorobiphenyl	0.400	0.408	-2.0	79	0.00
16		Acenaphthylene	0.400	0.382	4.5	78	0.00
17		Acenaphthene	0.400	0.387	3.3	77	0.00
18		Fluorene	0.400	0.374	6.5	74	0.00
19	I	Phenanthrene-d10	0.400	0.400	0.0	74	0.00
20		4,6-Dinitro-2-methylphenol	0.400	0.426	-6.5	91	0.00
21		4-Bromophenyl-phenylether	0.400	0.385	3.8	76	0.00
22		Hexachlorobenzene	0.400	0.404	-1.0	72	0.00
23		Atrazine	0.400	0.386	3.5	75	-0.01
24		Pentachlorophenol	0.400	0.392	2.0	86	0.00
25		Phenanthrene	0.400	0.382	4.5	76	0.00
26		Anthracene	0.400	0.383	4.3	76	0.00
27	SURR	Fluoranthene-d10	0.400	0.404	-1.0	74	0.00
28		Fluoranthene	0.400	0.373	6.8	73	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	79	0.00
30		Pyrene	0.400	0.397	0.8	75	0.00
31	S	Terphenyl-d14	0.400	0.400	0.0	75	0.00
32		Benzo(a)anthracene	0.400	0.391	2.3	85	0.00
33		Chrysene	0.400	0.405	-1.3	79	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.393	1.8	76	0.00
35	I	Perylene-d12	0.400	0.400	0.0	88	0.00
36		Indeno(1,2,3-cd)pyrene	0.400	0.427	-6.7	100	0.00
37		Benzo(b)fluoranthene	0.400	0.385	3.8	90	0.00
38		Benzo(k)fluoranthene	0.400	0.373	6.8	85	0.00
39	C	Benzo(a)pyrene	0.400	0.399	0.3	93	0.00
40		Dibenzo(a,h)anthracene	0.400	0.404	-1.0	104	0.00
41		Benzo(g,h,i)perylene	0.400	0.406	-1.5	93	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q2299 SAS No.: Q2299 SDG No.: Q2299

Instrument ID: BNA_N Calibration Date/Time: 06/14/2025 13:23

Lab File ID: BN037259.D Init. Calib. Date(s): 06/13/2025 06/13/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 13:33 17:11

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.537	0.549		2.2	20.0
Fluoranthene-d10	1.047	1.028		-1.7	20.0
2-Fluorophenol	0.982	0.983		0.1	20.0
Phenol-d6	1.035	1.050		1.4	20.0
Nitrobenzene-d5	0.395	0.417		5.6	20.0
2-Fluorobiphenyl	1.681	1.791		6.5	20.0
2,4,6-Tribromophenol	0.166	0.181		9.0	20.0
Terphenyl-d14	0.904	0.907		0.3	20.0
1,4-Dioxane	0.549	0.538		-2.0	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037259.D
Acq On : 14 Jun 2025 13:23
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 38 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Jun 16 02:42:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration

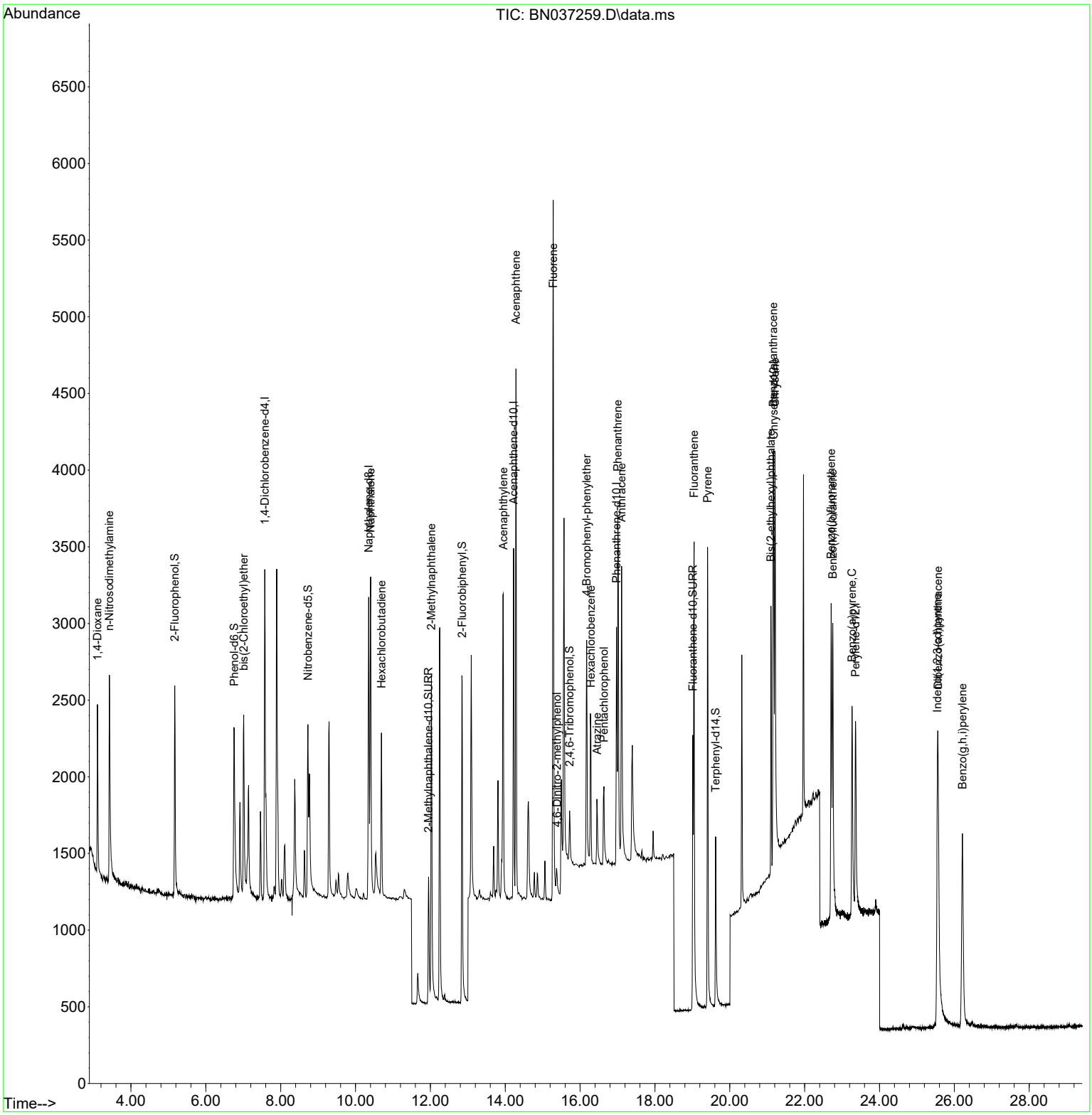
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	1044	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	2562	0.400	ng	#-0.01
13) Acenaphthene-d10	14.224	164	1268	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	2318	0.400	ng	0.00
29) Chrysene-d12	21.171	240	1702	0.400	ng	# 0.00
35) Perylene-d12	23.360	264	1789	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.170	112	1026	0.400	ng	0.00
5) Phenol-d6	6.759	99	1096	0.406	ng	0.00
8) Nitrobenzene-d5	8.728	82	1069	0.422	ng	0.00
11) 2-Methylnaphthalene-d10	11.950	152	1407	0.409	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	230	0.437	ng	-0.01
15) 2-Fluorobiphenyl	12.848	172	2271	0.426	ng	0.00
27) Fluoranthene-d10	19.012	212	2382	0.393	ng	0.00
31) Terphenyl-d14	19.621	244	1544	0.401	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.104	88	562	0.392	ng	92
3) n-Nitrosodimethylamine	3.422	42	1426	0.437	ng	# 97
6) bis(2-Chloroethyl)ether	7.012	93	1026	0.424	ng	94
9) Naphthalene	10.404	128	2969	0.400	ng	100
10) Hexachlorobutadiene	10.693	225	761	0.422	ng	# 97
12) 2-Methylnaphthalene	12.026	142	1778	0.394	ng	97
16) Acenaphthylene	13.946	152	2462	0.396	ng	99
17) Acenaphthene	14.288	154	1581	0.394	ng	98
18) Fluorene	15.282	166	1985	0.385	ng	100
20) 4,6-Dinitro-2-methylph...	15.378	198	199	0.443	ng	90
21) 4-Bromophenyl-phenylether	16.177	248	578	0.383	ng	88
22) Hexachlorobenzene	16.289	284	670	0.383	ng	94
23) Atrazine	16.450	200	489	0.363	ng	# 95
24) Pentachlorophenol	16.636	266	367	0.428	ng	94
25) Phenanthrene	17.009	178	2788	0.379	ng	98
26) Anthracene	17.108	178	2496	0.371	ng	99
28) Fluoranthene	19.045	202	3112	0.362	ng	98
30) Pyrene	19.407	202	3140	0.392	ng	100
32) Benzo(a)anthracene	21.162	228	2322	0.404	ng	99
33) Chrysene	21.206	228	2833	0.396	ng	99
34) Bis(2-ethylhexyl)phtha...	21.099	149	1690	0.395	ng	98
36) Indeno(1,2,3-cd)pyrene	25.547	276	3038	0.421	ng	99
37) Benzo(b)fluoranthene	22.708	252	2598	0.397	ng	99
38) Benzo(k)fluoranthene	22.752	252	2852	0.378	ng	99
39) Benzo(a)pyrene	23.266	252	2372	0.403	ng	96
40) Dibenzo(a,h)anthracene	25.561	278	2198	0.401	ng	97
41) Benzo(g,h,i)perylene	26.216	276	2747	0.411	ng	97

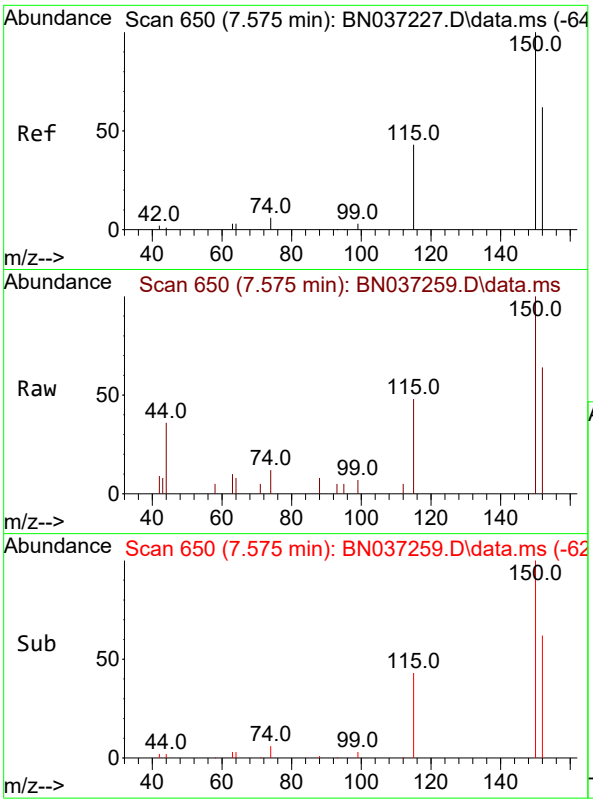
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037259.D
Acq On : 14 Jun 2025 13:23
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 38 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Jun 16 02:42:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration



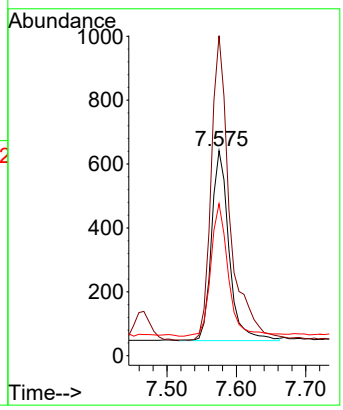


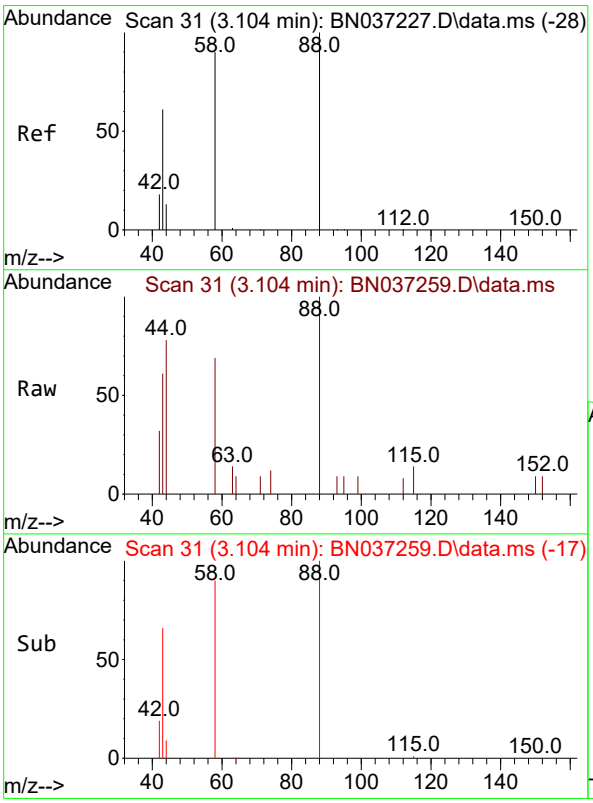
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN037259.D
Acq: 14 Jun 2025 13:23

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 1044

Ion	Ratio	Lower	Upper
152	100		
150	156.1	125.2	187.8
115	74.1	58.4	87.6

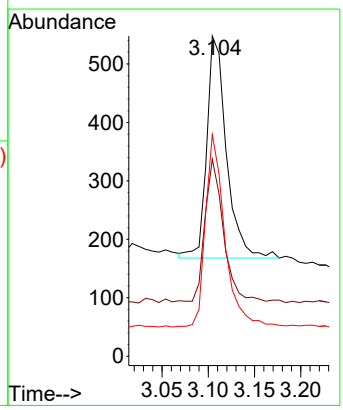


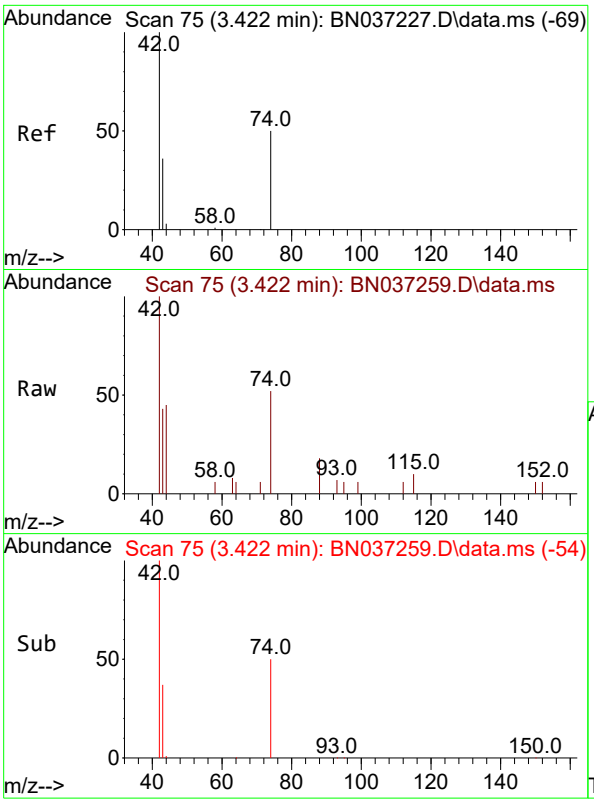


#2
1,4-Dioxane
Concen: 0.392 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037259.D
Acq: 14 Jun 2025 13:23

Tgt Ion: 88 Resp: 562

Ion	Ratio	Lower	Upper
88	100		
43	59.3	52.6	79.0
58	85.2	73.5	110.3



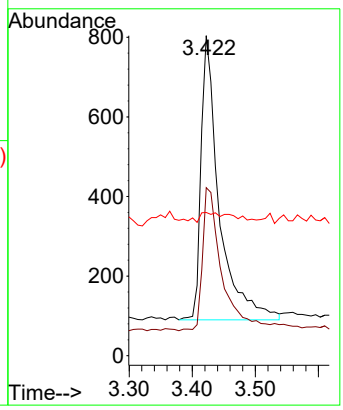


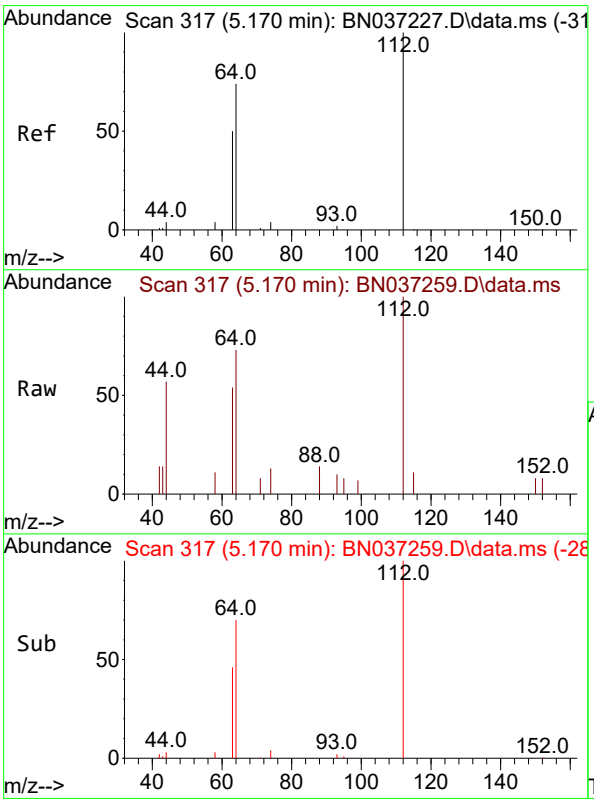
#3
n-Nitrosodimethylamine
Concen: 0.437 ng
RT: 3.422 min Scan# 7
Delta R.T. 0.000 min
Lab File: BN037259.D
Acq: 14 Jun 2025 13:23

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 42 Resp: 1426

Ion	Ratio	Lower	Upper
42	100		
74	53.4	44.6	66.8
44	2.7	3.5	5.3#

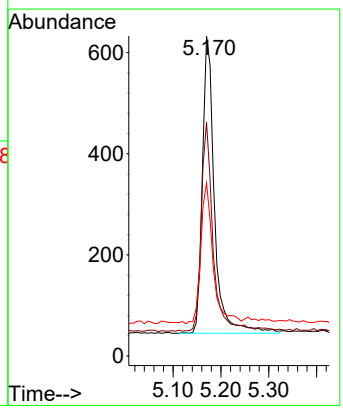


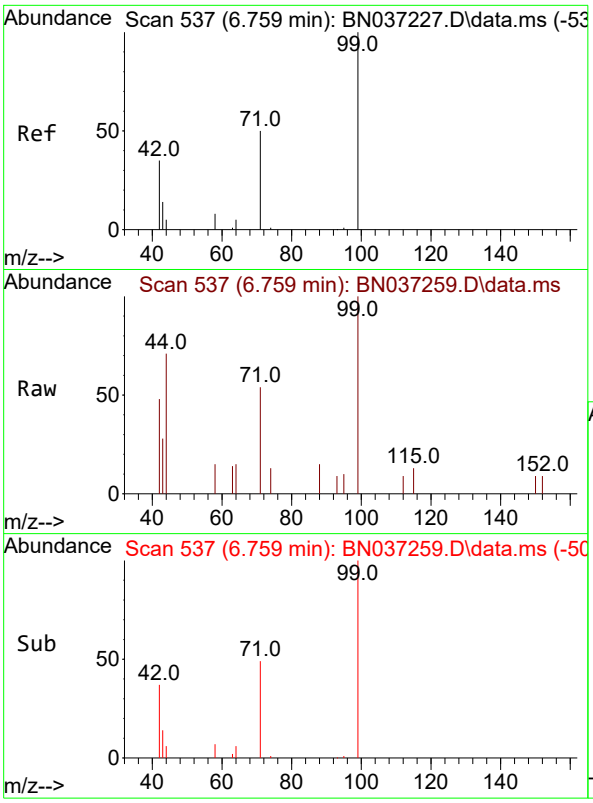


#4
2-Fluorophenol
Concen: 0.400 ng
RT: 5.170 min Scan# 317
Delta R.T. 0.000 min
Lab File: BN037259.D
Acq: 14 Jun 2025 13:23

Tgt Ion:112 Resp: 1026

Ion	Ratio	Lower	Upper
112	100		
64	68.1	57.2	85.8
63	47.9	39.8	59.6



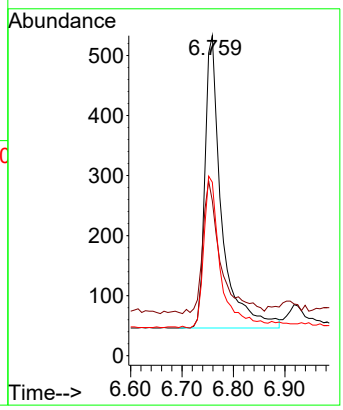


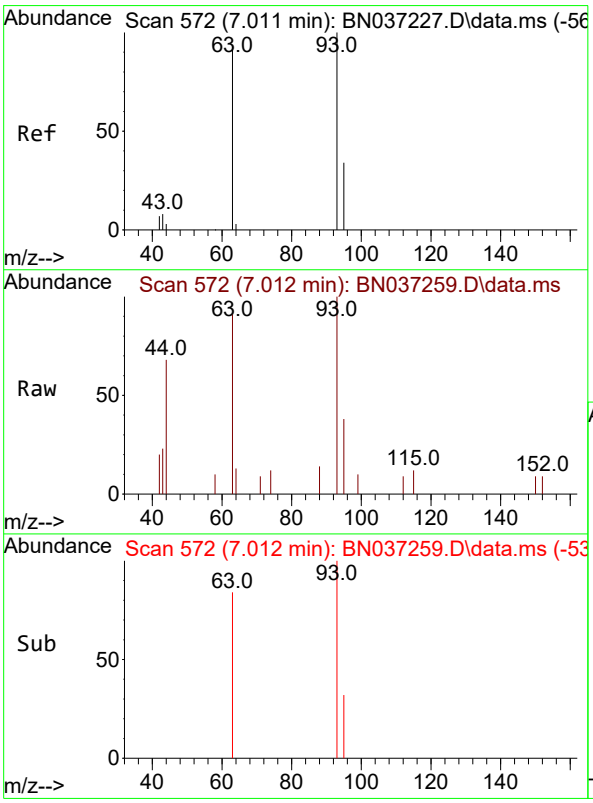
#5
Phenol-d6
Concen: 0.406 ng
RT: 6.759 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN037259.D
Acq: 14 Jun 2025 13:23

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 99 Resp: 1096

Ion	Ratio	Lower	Upper
99	100		
42	48.5	36.2	54.4
71	52.5	42.4	63.6

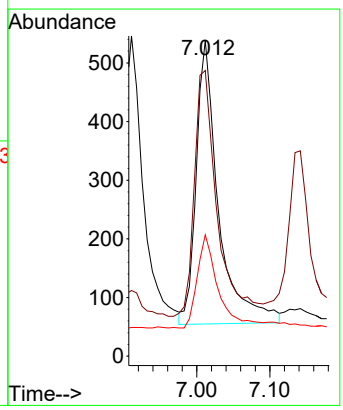


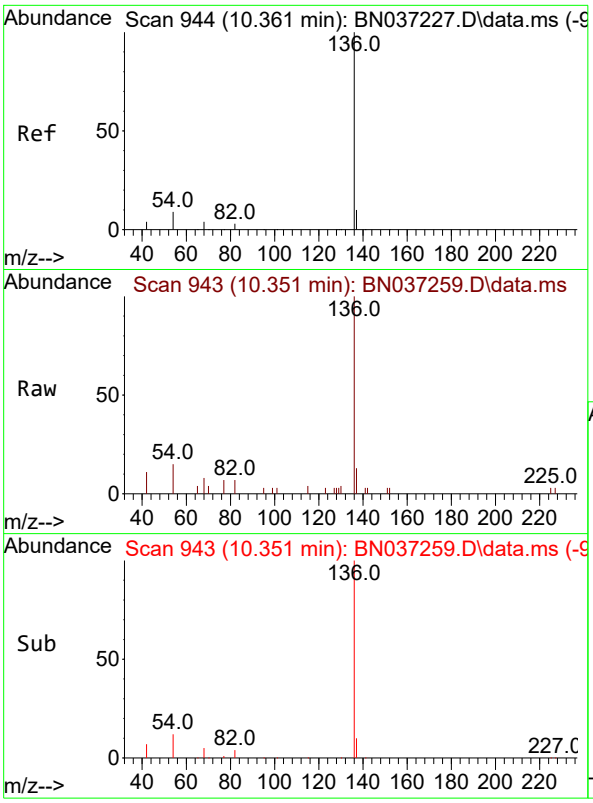


#6
bis(2-Chloroethyl)ether
Concen: 0.424 ng
RT: 7.012 min Scan# 572
Delta R.T. 0.000 min
Lab File: BN037259.D
Acq: 14 Jun 2025 13:23

Tgt Ion: 93 Resp: 1026

Ion	Ratio	Lower	Upper
93	100		
63	88.1	75.2	112.8
95	31.0	28.3	42.5



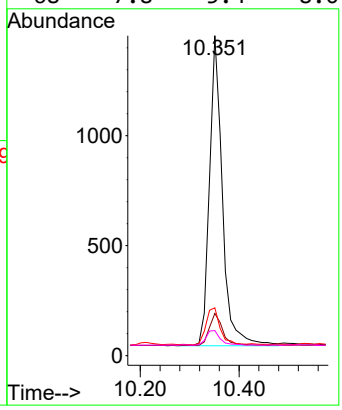


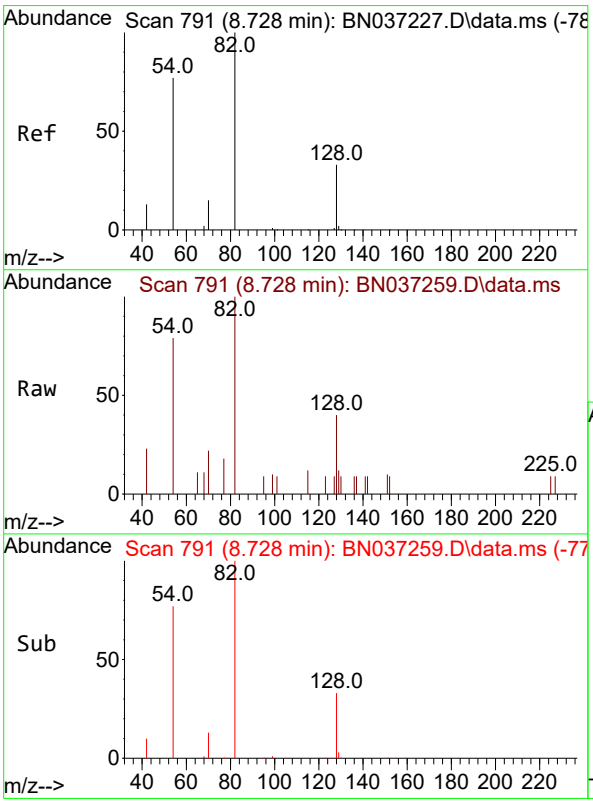
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037259.D
Acq: 14 Jun 2025 13:23

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:136 Resp: 2562

Ion	Ratio	Lower	Upper
136	100		
137	13.2	10.6	15.8
54	14.9	9.2	13.8#
68	7.8	5.4	8.0

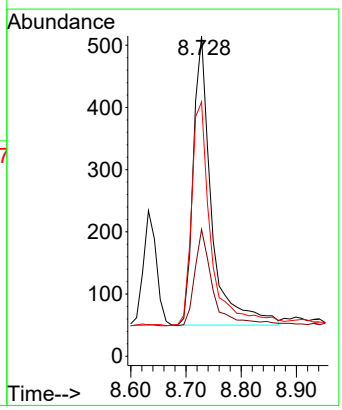


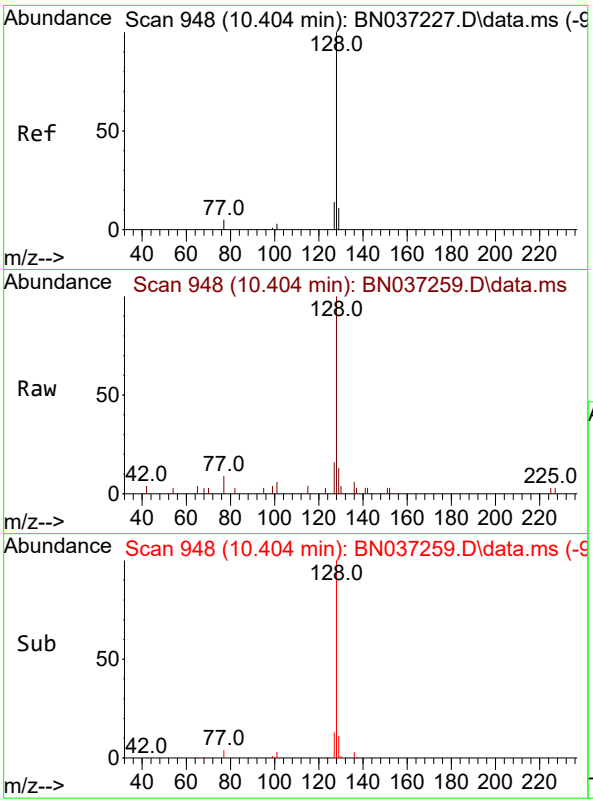


#8
Nitrobenzene-d5
Concen: 0.422 ng
RT: 8.728 min Scan# 791
Delta R.T. 0.000 min
Lab File: BN037259.D
Acq: 14 Jun 2025 13:23

Tgt Ion: 82 Resp: 1069

Ion	Ratio	Lower	Upper
82	100		
128	39.6	31.2	46.8
54	79.4	63.3	94.9



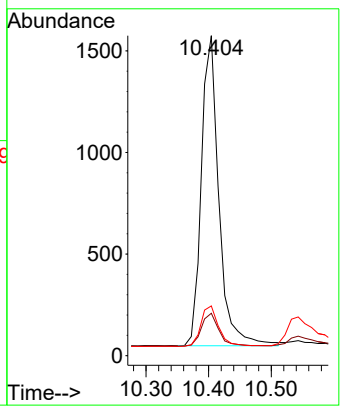


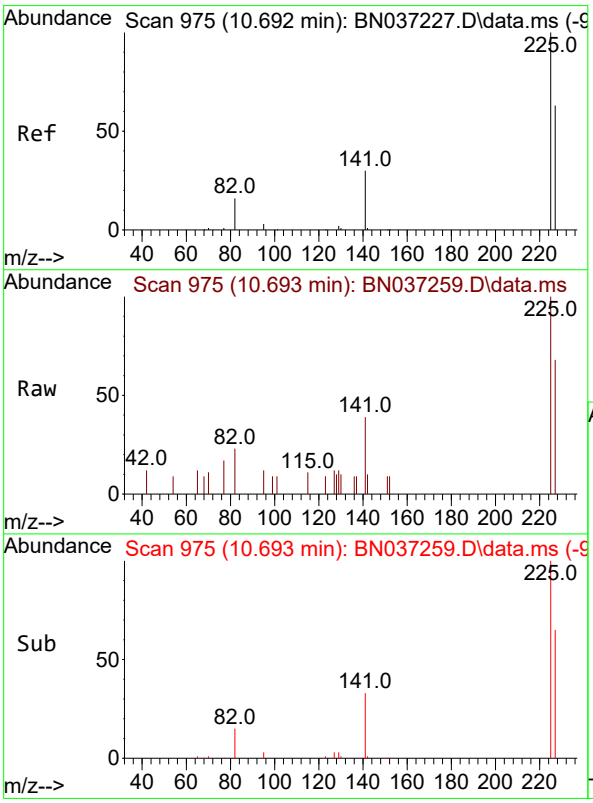
#9
Naphthalene
Concen: 0.400 ng
RT: 10.404 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037259.D
Acq: 14 Jun 2025 13:23

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:128 Resp: 2969

Ion	Ratio	Lower	Upper
128	100		
129	13.3	10.7	16.1
127	15.6	12.6	19.0

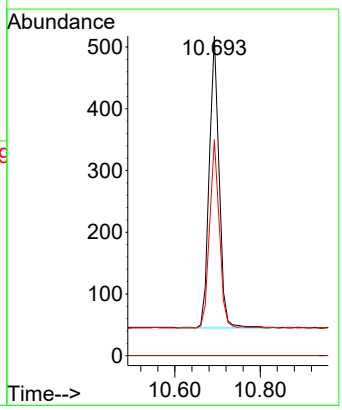


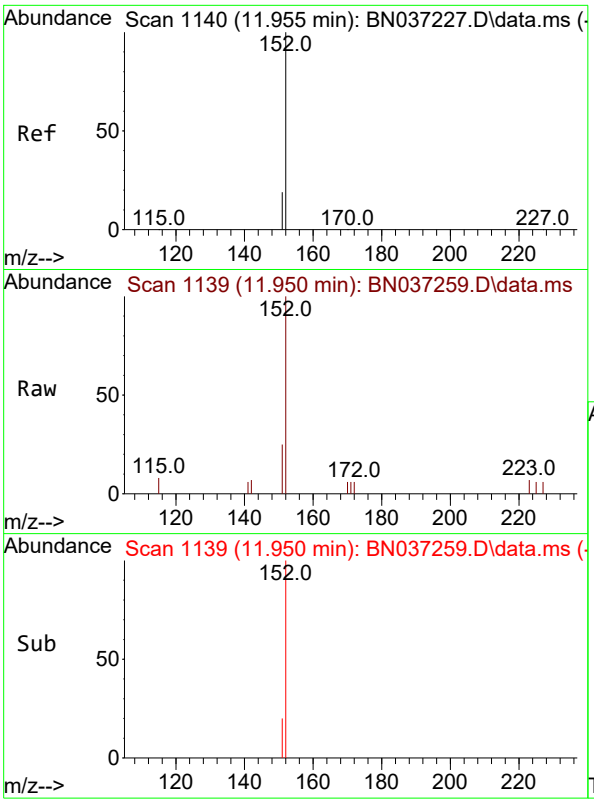


#10
Hexachlorobutadiene
Concen: 0.422 ng
RT: 10.693 min Scan# 975
Delta R.T. 0.000 min
Lab File: BN037259.D
Acq: 14 Jun 2025 13:23

Tgt Ion:225 Resp: 761

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.7	49.2	73.8



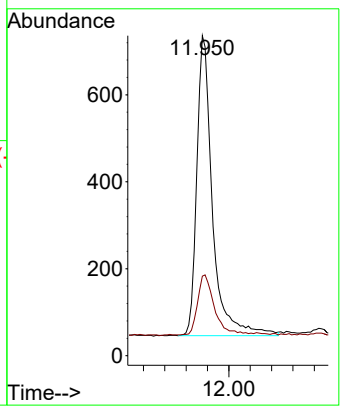


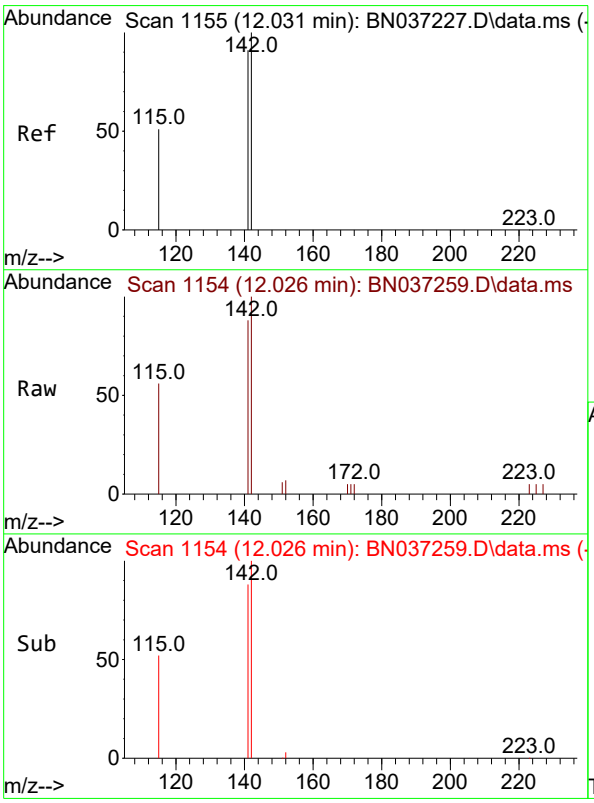
#11
2-Methylnaphthalene-d10
Concen: 0.409 ng
RT: 11.950 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN037259.D
Acq: 14 Jun 2025 13:23

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 1407

Ion	Ratio	Lower	Upper
152	100		
151	21.4	17.9	26.9

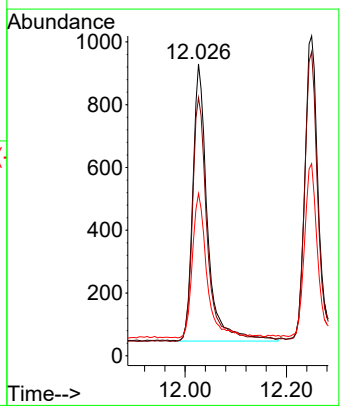


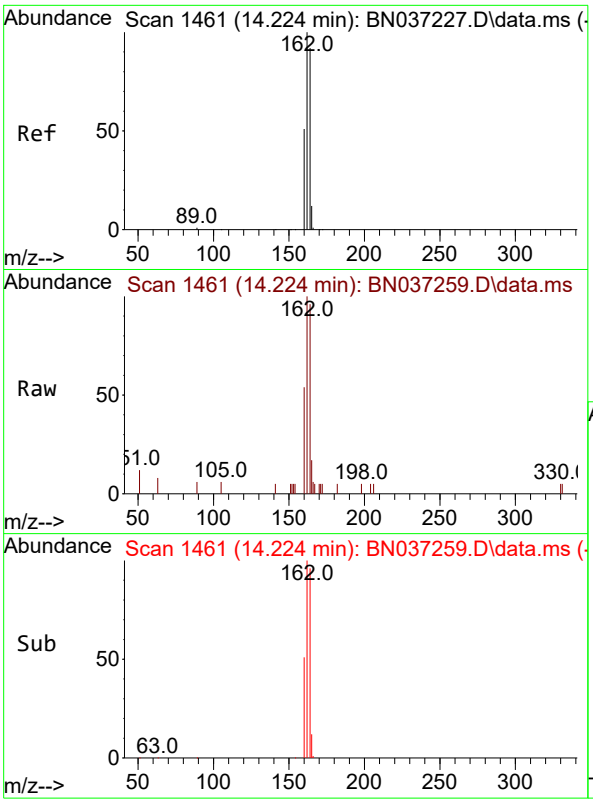


#12
2-Methylnaphthalene
Concen: 0.394 ng
RT: 12.026 min Scan# 1154
Delta R.T. -0.005 min
Lab File: BN037259.D
Acq: 14 Jun 2025 13:23

Tgt Ion:142 Resp: 1778

Ion	Ratio	Lower	Upper
142	100		
141	88.5	73.0	109.6
115	55.6	43.3	64.9



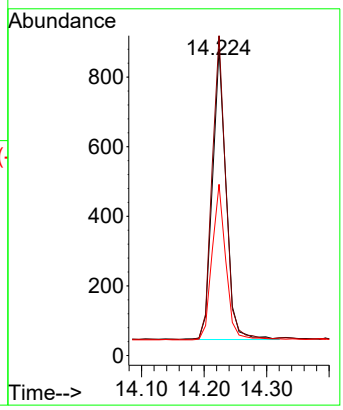


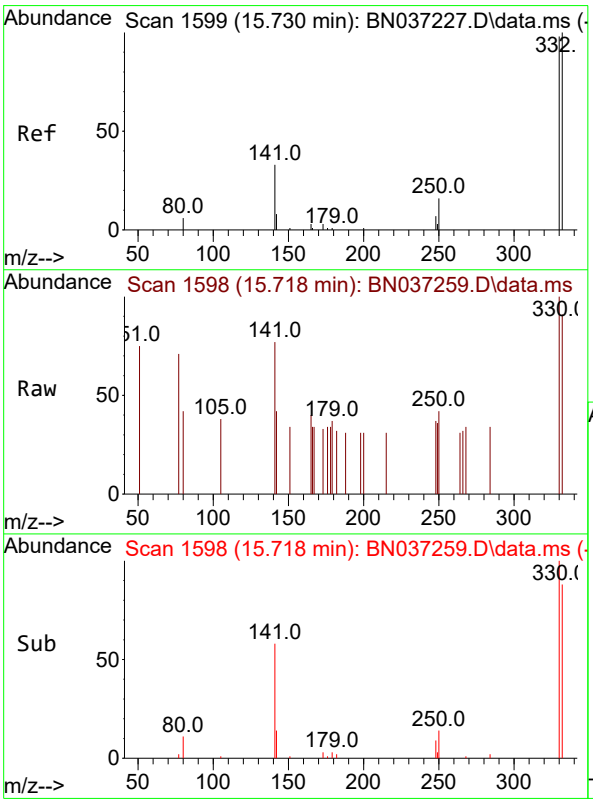
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037259.D
Acq: 14 Jun 2025 13:23

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:164 Resp: 1268

Ion	Ratio	Lower	Upper
164	100		
162	104.2	86.7	130.1
160	55.8	45.8	68.6

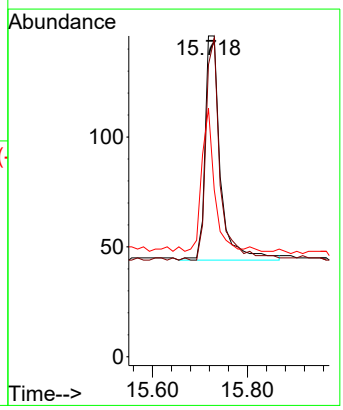


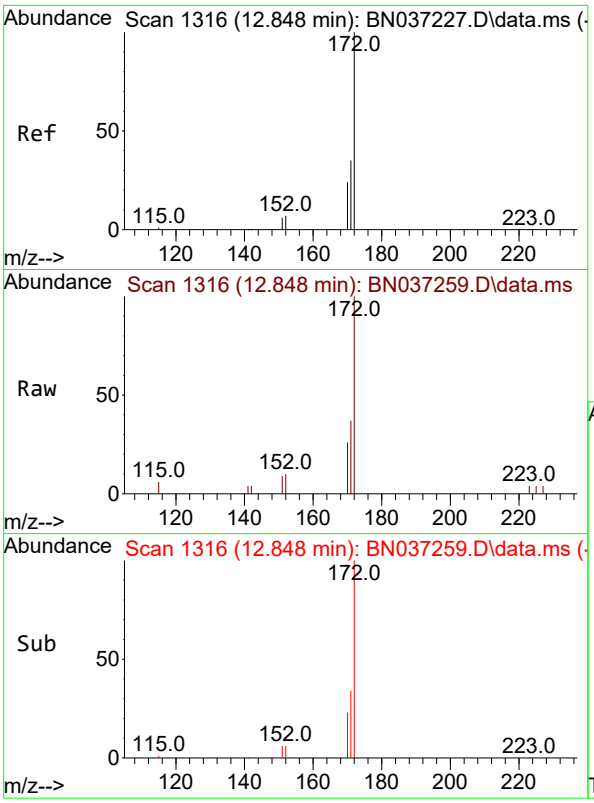


#14
2,4,6-Tribromophenol
Concen: 0.437 ng
RT: 15.718 min Scan# 1598
Delta R.T. -0.012 min
Lab File: BN037259.D
Acq: 14 Jun 2025 13:23

Tgt Ion:330 Resp: 230

Ion	Ratio	Lower	Upper
330	100		
332	92.2	74.9	112.3
141	52.6	45.1	67.7



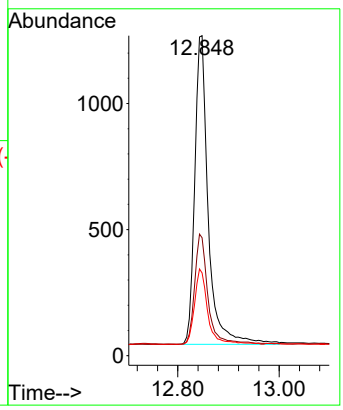


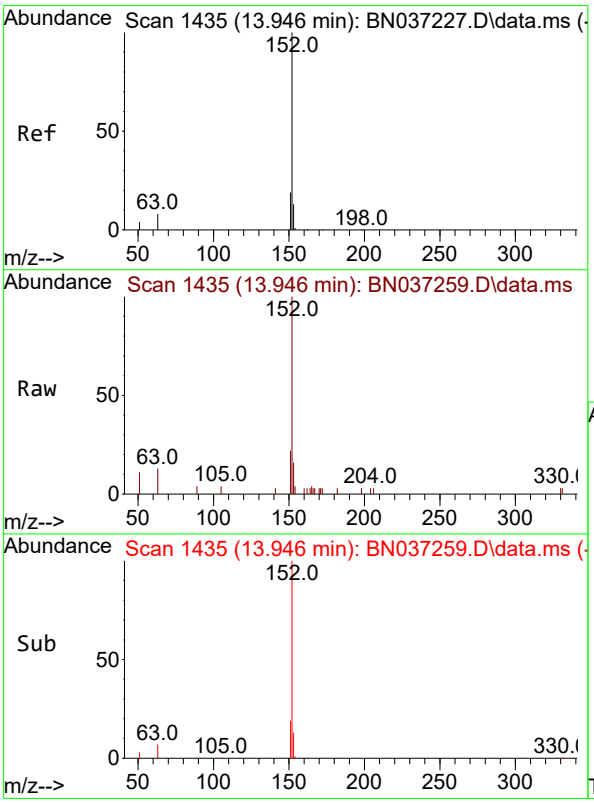
#15
2-Fluorobiphenyl
Concen: 0.426 ng
RT: 12.848 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037259.D
Acq: 14 Jun 2025 13:23

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:172 Resp: 2271

Ion	Ratio	Lower	Upper
172	100		
171	36.9	29.8	44.8
170	25.8	21.1	31.7

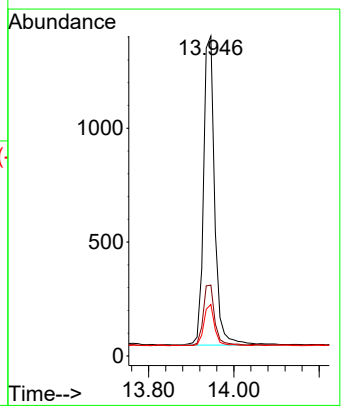


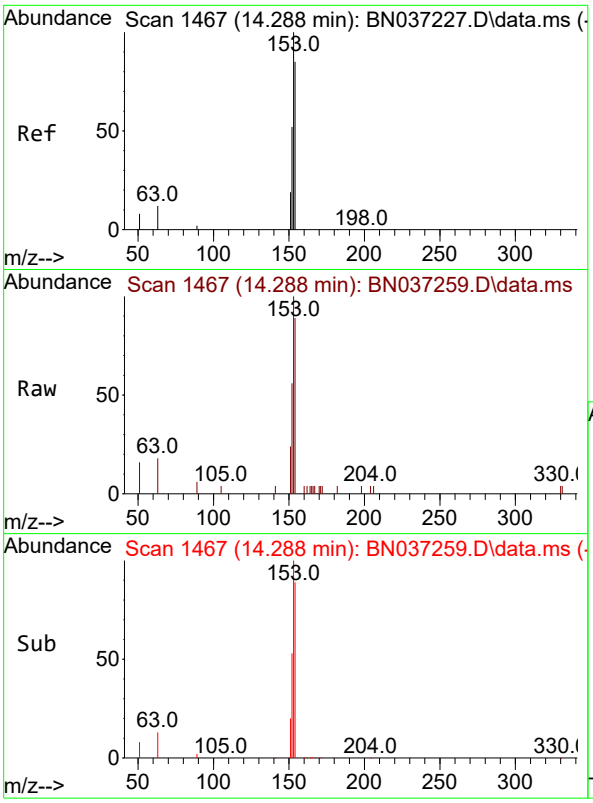


#16
Acenaphthylene
Concen: 0.396 ng
RT: 13.946 min Scan# 1435
Delta R.T. 0.000 min
Lab File: BN037259.D
Acq: 14 Jun 2025 13:23

Tgt Ion:152 Resp: 2462

Ion	Ratio	Lower	Upper
152	100		
151	20.0	15.7	23.5
153	13.3	10.7	16.1



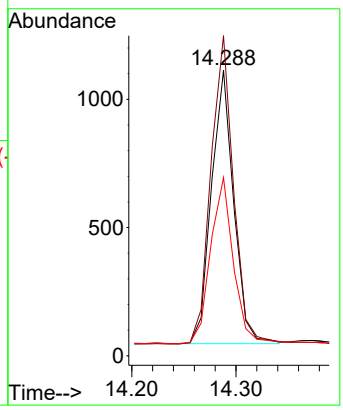


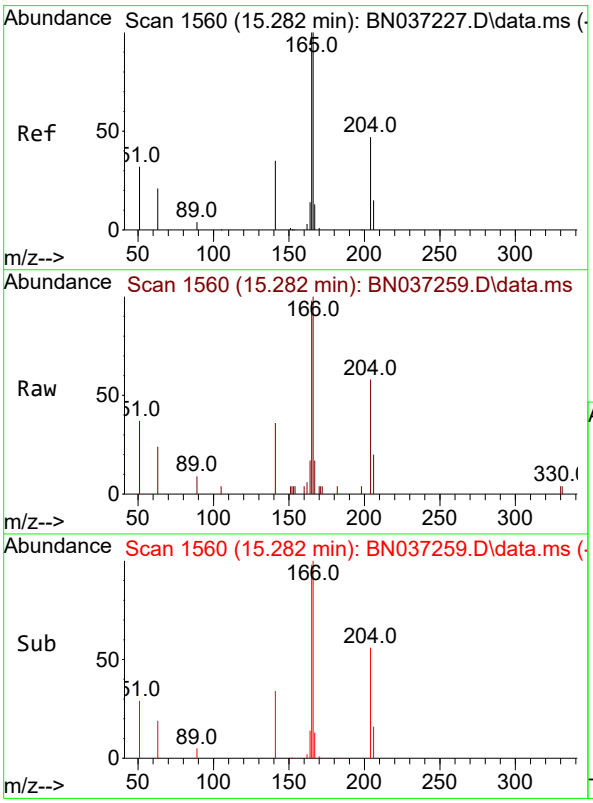
#17
Acenaphthene
Concen: 0.394 ng
RT: 14.288 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037259.D
Acq: 14 Jun 2025 13:23

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:154 Resp: 1581

Ion	Ratio	Lower	Upper
154	100		
153	115.4	94.6	141.8
152	63.3	49.6	74.4

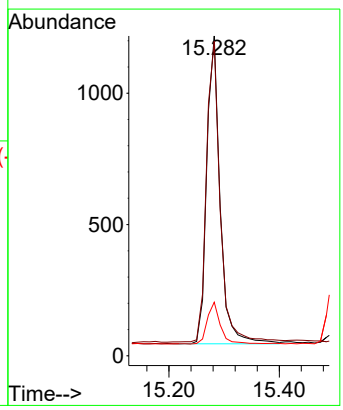


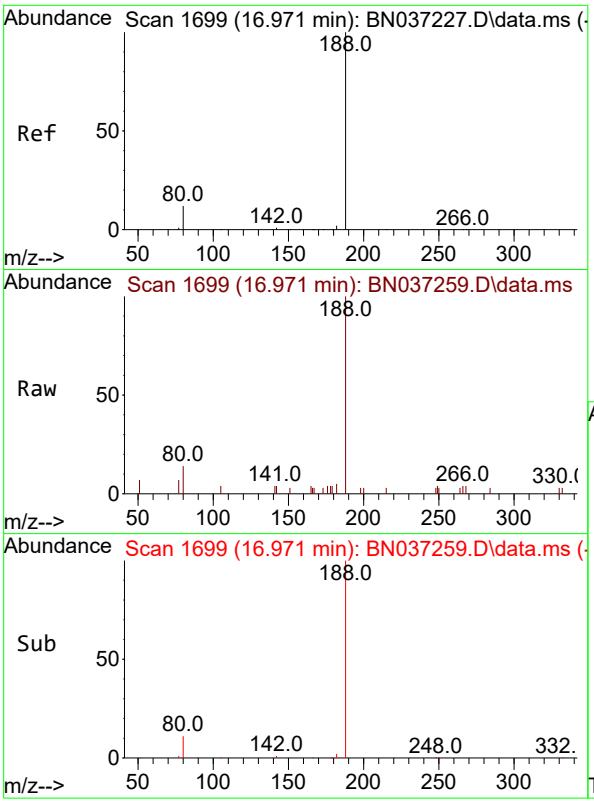


#18
Fluorene
Concen: 0.385 ng
RT: 15.282 min Scan# 1560
Delta R.T. 0.000 min
Lab File: BN037259.D
Acq: 14 Jun 2025 13:23

Tgt Ion:166 Resp: 1985

Ion	Ratio	Lower	Upper
166	100		
165	99.8	79.8	119.6
167	13.5	10.8	16.2



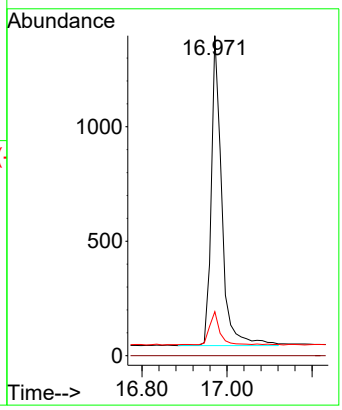


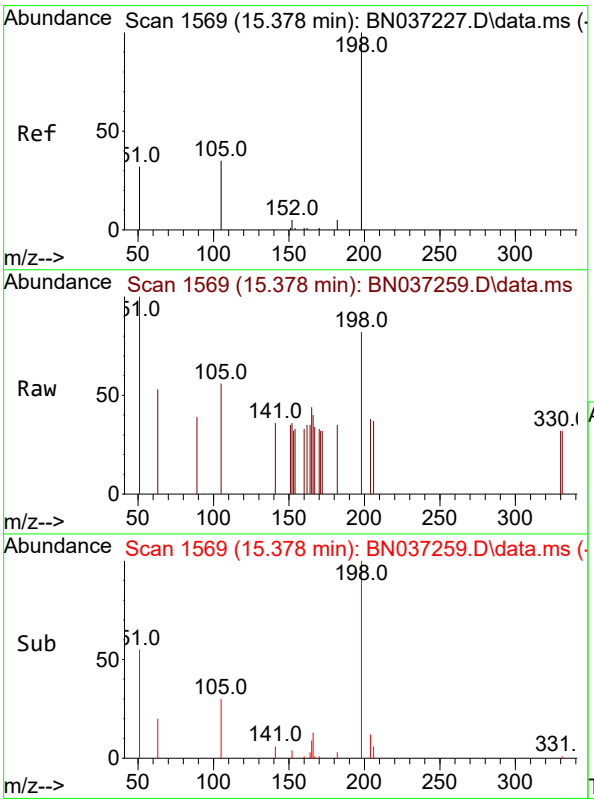
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037259.D
Acq: 14 Jun 2025 13:23

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:188 Resp: 2318

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	13.7	12.2	18.4

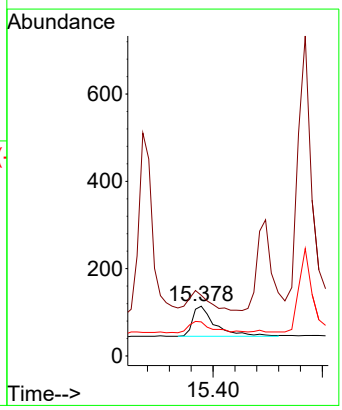


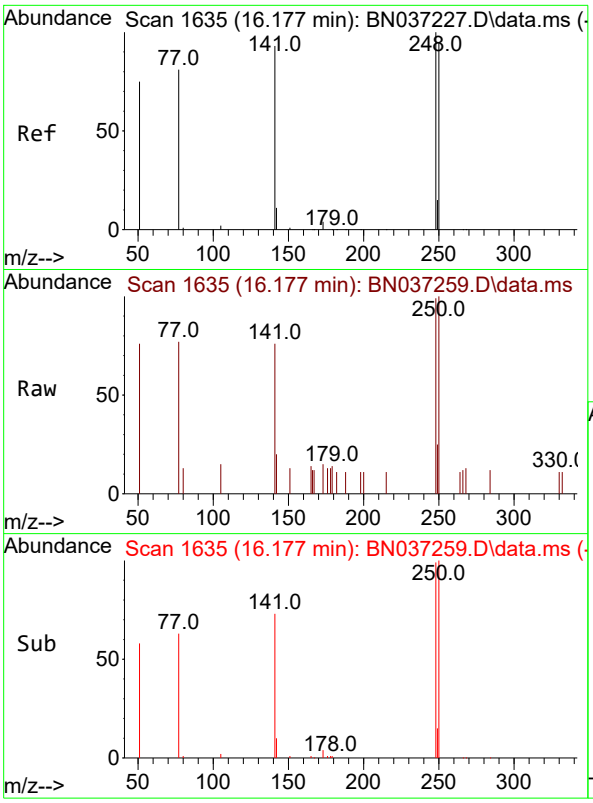


#20
4,6-Dinitro-2-methylphenol
Concen: 0.443 ng
RT: 15.378 min Scan# 1569
Delta R.T. 0.000 min
Lab File: BN037259.D
Acq: 14 Jun 2025 13:23

Tgt Ion:198 Resp: 199

Ion	Ratio	Lower	Upper
198	100		
51	121.9	111.2	166.8
105	68.4	54.0	81.0



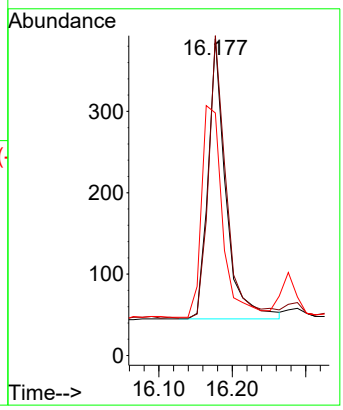


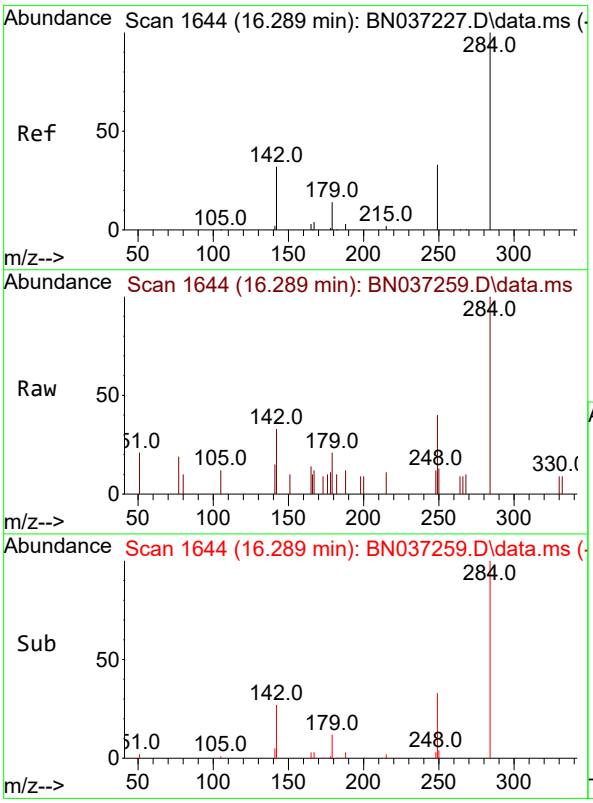
#21
4-Bromophenyl-phenylether
Concen: 0.383 ng
RT: 16.177 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037259.D
Acq: 14 Jun 2025 13:23

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:248 Resp: 578

Ion	Ratio	Lower	Upper
248	100		
250	101.0	76.8	115.2
141	76.6	75.6	113.4

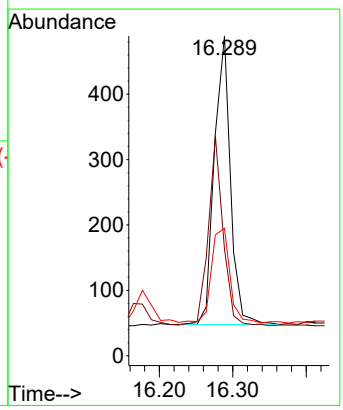


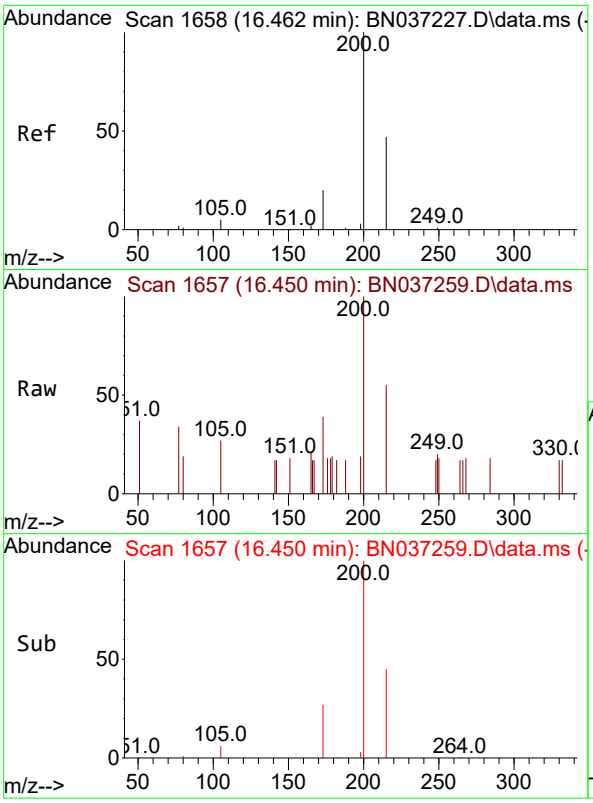


#22
Hexachlorobenzene
Concen: 0.383 ng
RT: 16.289 min Scan# 1644
Delta R.T. 0.000 min
Lab File: BN037259.D
Acq: 14 Jun 2025 13:23

Tgt Ion:284 Resp: 670

Ion	Ratio	Lower	Upper
284	100		
142	60.3	43.8	65.6
249	37.5	28.4	42.6



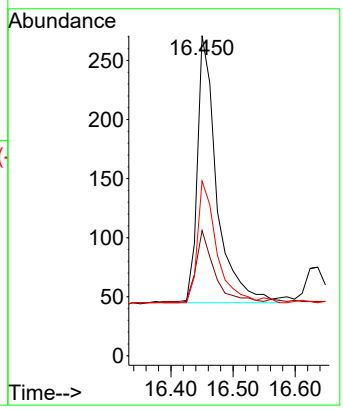


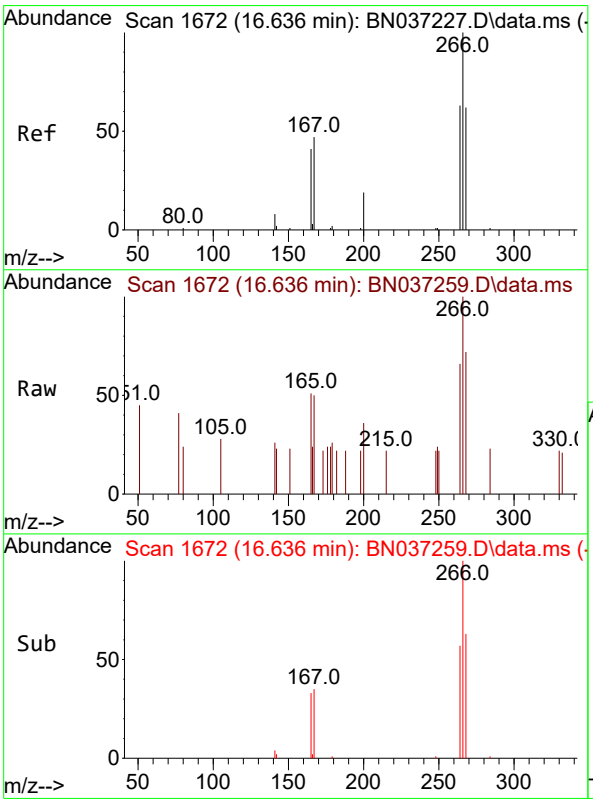
#23
Atrazine
Concen: 0.363 ng
RT: 16.450 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037259.D
Acq: 14 Jun 2025 13:23

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:200 Resp: 489

Ion	Ratio	Lower	Upper
200	100		
173	39.1	25.1	37.7#
215	54.6	43.7	65.5

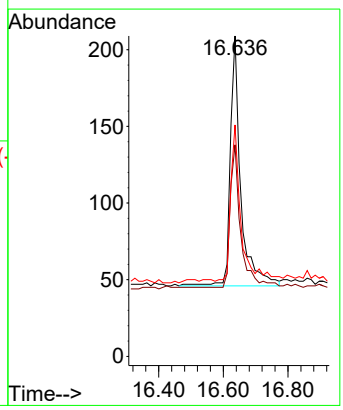


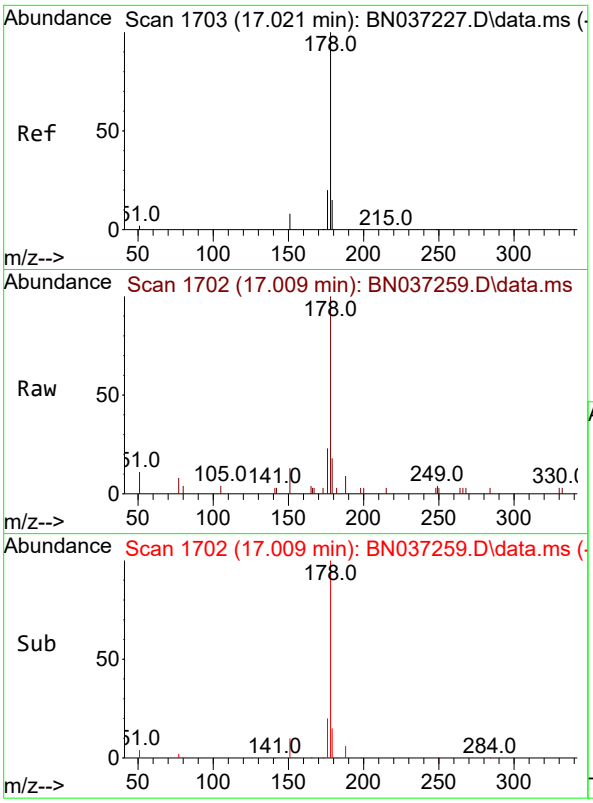


#24
Pentachlorophenol
Concen: 0.428 ng
RT: 16.636 min Scan# 1672
Delta R.T. 0.000 min
Lab File: BN037259.D
Acq: 14 Jun 2025 13:23

Tgt Ion:266 Resp: 367

Ion	Ratio	Lower	Upper
266	100		
264	56.9	49.2	73.8
268	62.1	53.4	80.2



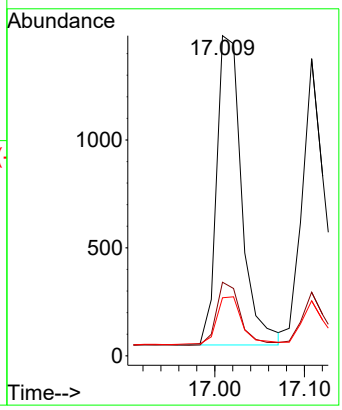


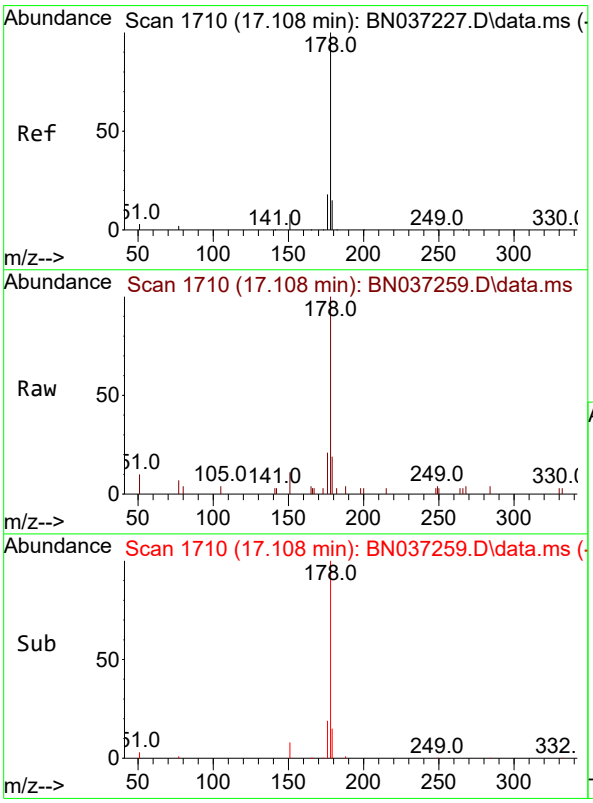
#25
Phenanthrene
Concen: 0.379 ng
RT: 17.009 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037259.D
Acq: 14 Jun 2025 13:23

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:178 Resp: 2788

Ion	Ratio	Lower	Upper
178	100		
176	19.5	16.3	24.5
179	16.3	12.6	18.8

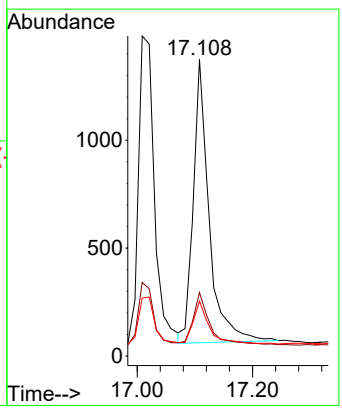


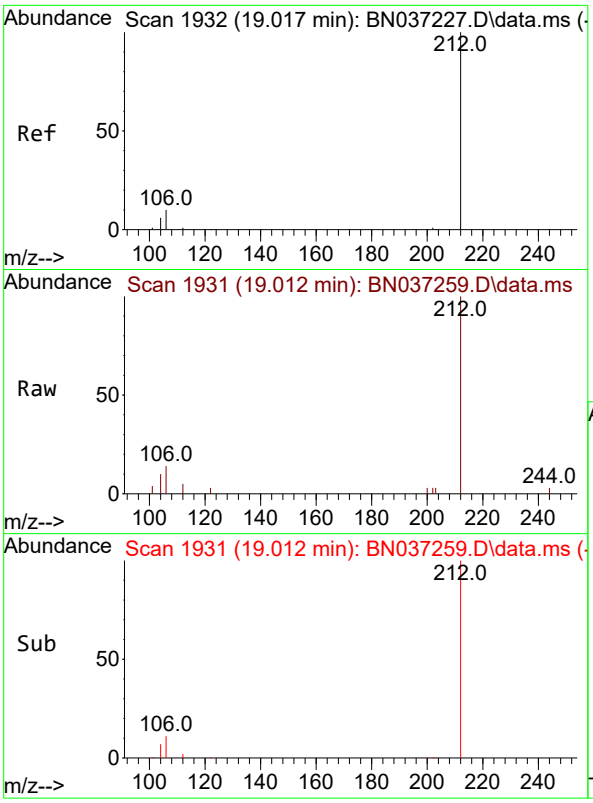


#26
Anthracene
Concen: 0.371 ng
RT: 17.108 min Scan# 1710
Delta R.T. 0.000 min
Lab File: BN037259.D
Acq: 14 Jun 2025 13:23

Tgt Ion:178 Resp: 2496

Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.1	22.7
179	16.0	12.4	18.6



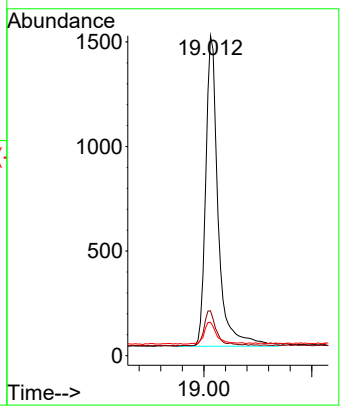


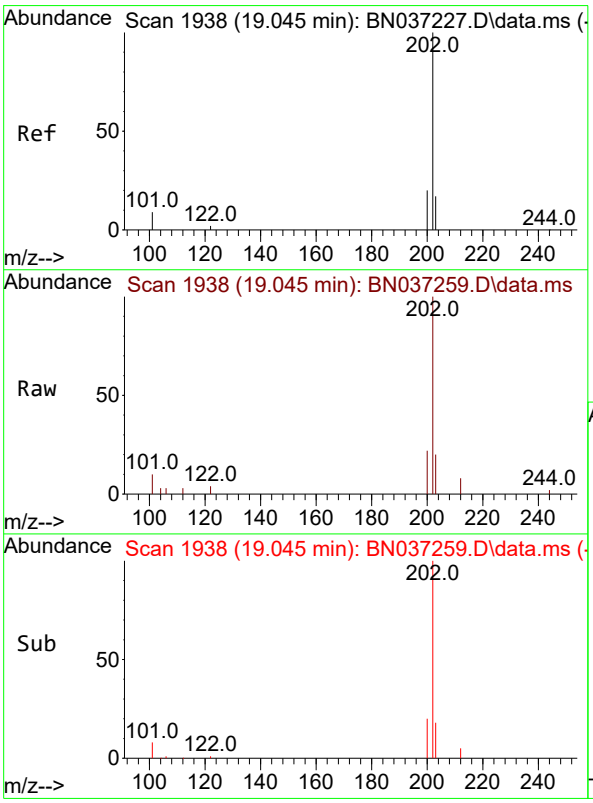
#27
Fluoranthene-d10
Concen: 0.393 ng
RT: 19.012 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN037259.D
Acq: 14 Jun 2025 13:23

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:212 Resp: 2382

Ion	Ratio	Lower	Upper
212	100		
106	11.0	9.3	13.9
104	6.9	5.7	8.5

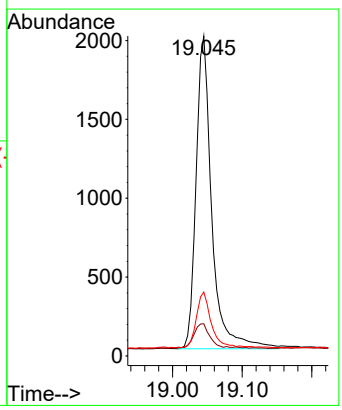


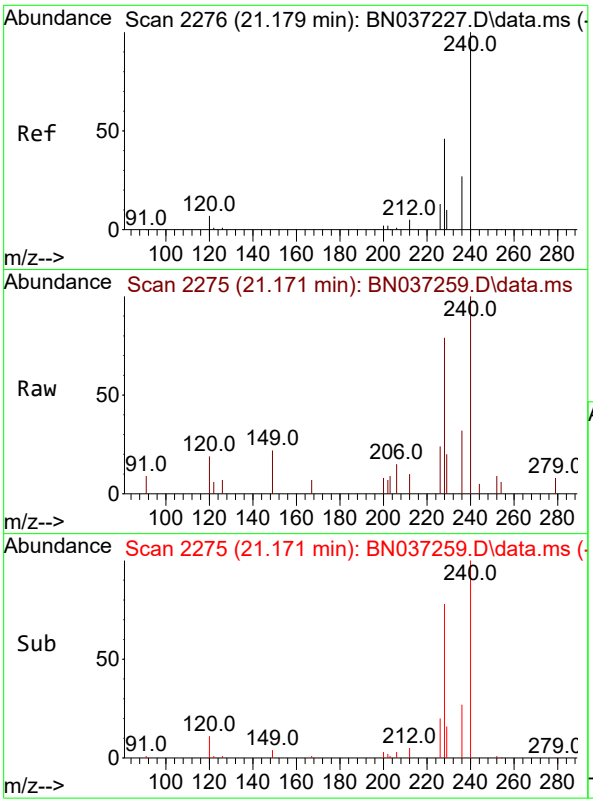


#28
Fluoranthene
Concen: 0.362 ng
RT: 19.045 min Scan# 1938
Delta R.T. 0.000 min
Lab File: BN037259.D
Acq: 14 Jun 2025 13:23

Tgt Ion:202 Resp: 3112

Ion	Ratio	Lower	Upper
202	100		
101	8.5	7.1	10.7
203	17.1	13.0	19.6



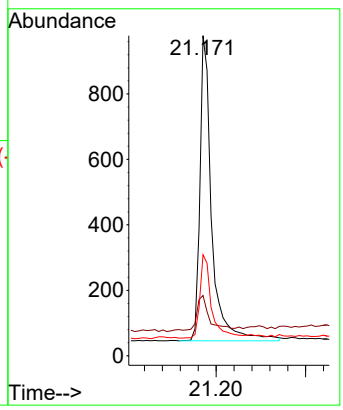


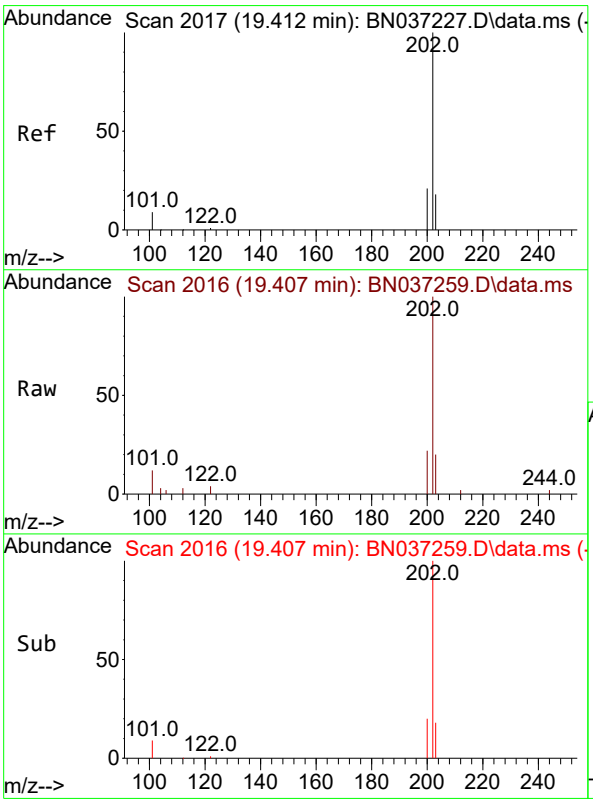
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.171 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037259.D
Acq: 14 Jun 2025 13:23

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:240 Resp: 1702

Ion	Ratio	Lower	Upper
240	100		
120	18.8	11.3	16.9#
236	31.6	24.4	36.6

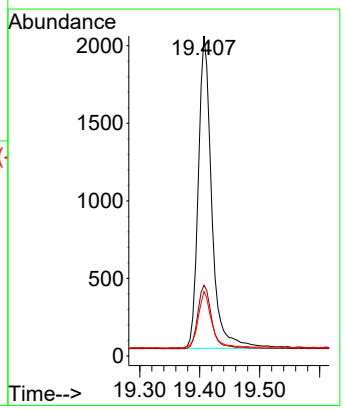


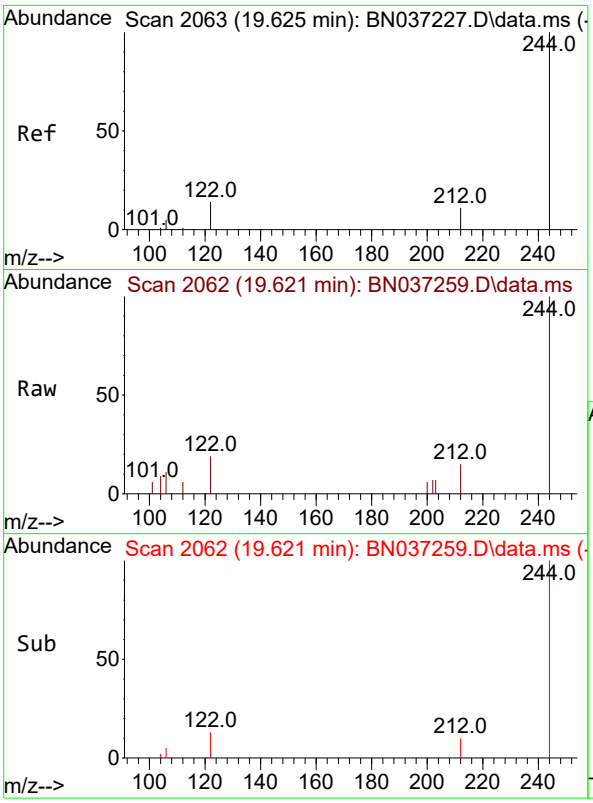


#30
Pyrene
Concen: 0.392 ng
RT: 19.407 min Scan# 2016
Delta R.T. -0.005 min
Lab File: BN037259.D
Acq: 14 Jun 2025 13:23

Tgt Ion:202 Resp: 3140

Ion	Ratio	Lower	Upper
202	100		
200	21.5	17.2	25.8
203	18.3	14.3	21.5



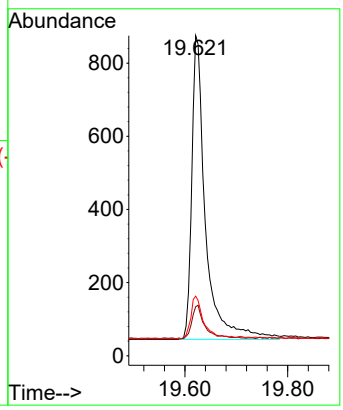


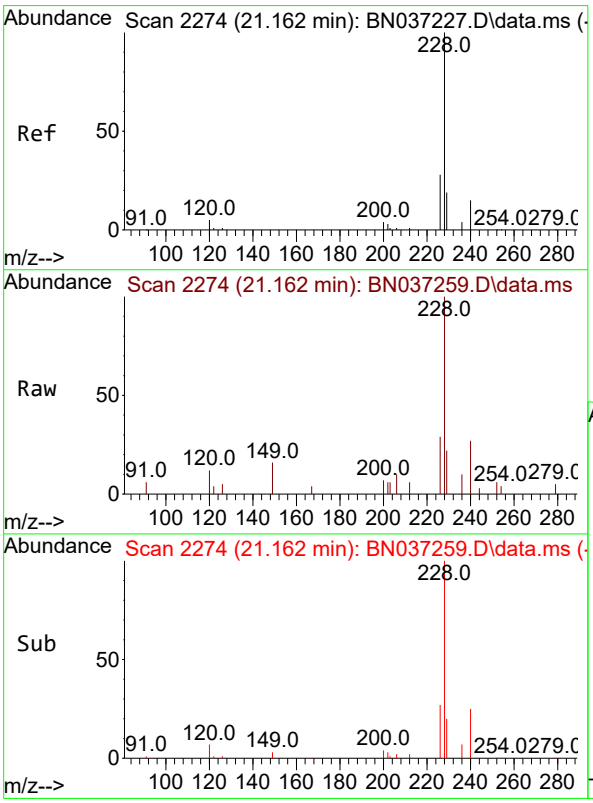
#31
Terphenyl-d14
Concen: 0.401 ng
RT: 19.621 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN037259.D
Acq: 14 Jun 2025 13:23

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:244 Resp: 1544

Ion	Ratio	Lower	Upper
244	100		
212	15.3	12.2	18.2
122	18.6	14.3	21.5

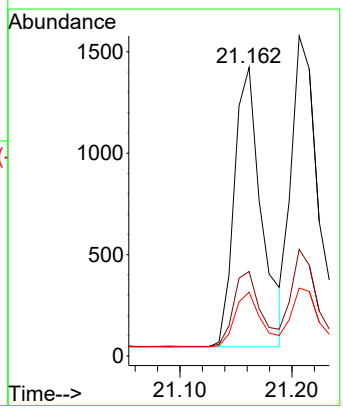


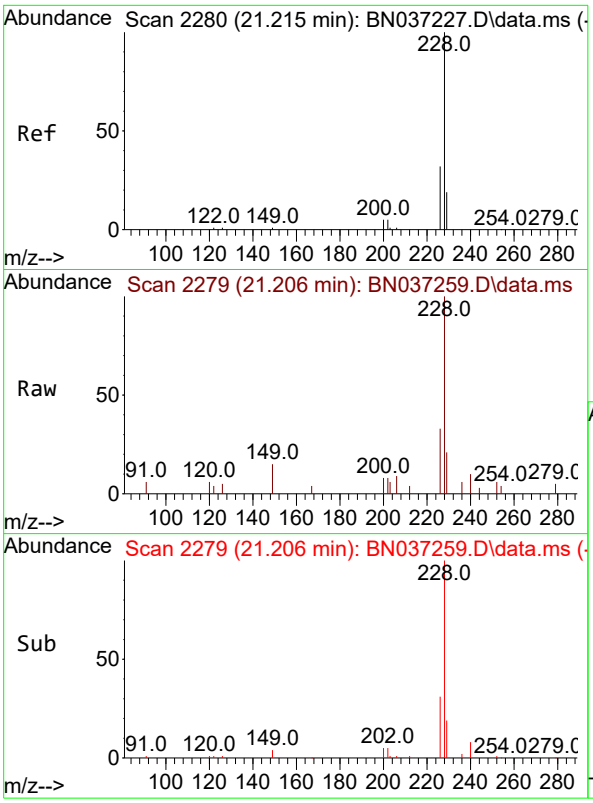


#32
Benzo(a)anthracene
Concen: 0.404 ng
RT: 21.162 min Scan# 2274
Delta R.T. 0.000 min
Lab File: BN037259.D
Acq: 14 Jun 2025 13:23

Tgt Ion:228 Resp: 2322

Ion	Ratio	Lower	Upper
228	100		
226	29.3	23.8	35.8
229	22.1	17.0	25.4



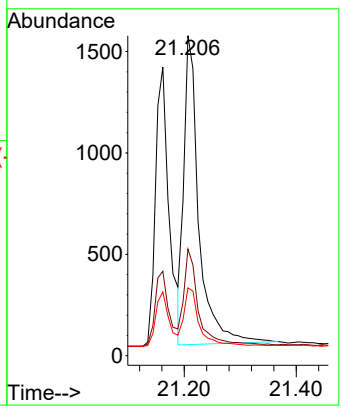


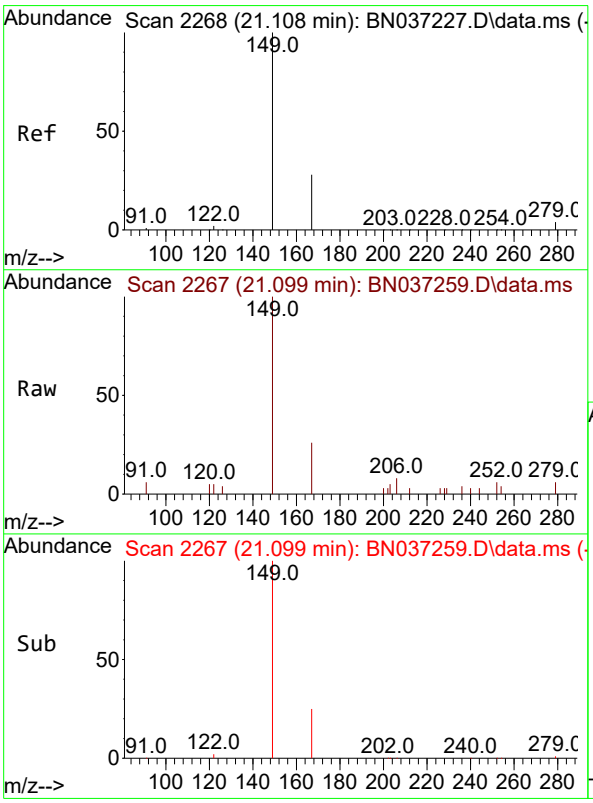
#33
Chrysene
Concen: 0.396 ng
RT: 21.206 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037259.D
Acq: 14 Jun 2025 13:23

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:228 Resp: 2833

Ion	Ratio	Lower	Upper
228	100		
226	33.3	25.8	38.6
229	21.2	17.0	25.4

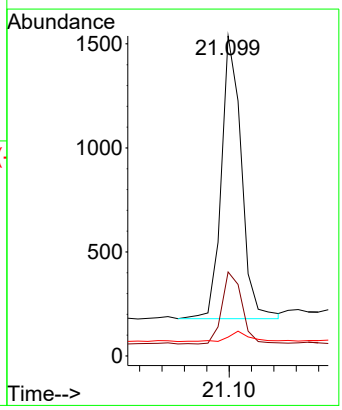


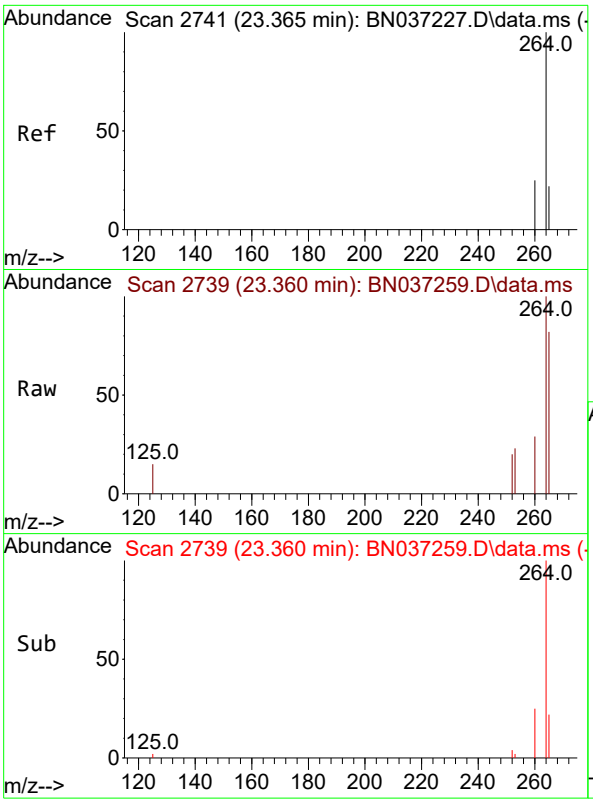


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.395 ng
RT: 21.099 min Scan# 2267
Delta R.T. -0.009 min
Lab File: BN037259.D
Acq: 14 Jun 2025 13:23

Tgt Ion:149 Resp: 1690

Ion	Ratio	Lower	Upper
149	100		
167	25.6	21.3	31.9
279	4.0	3.3	4.9



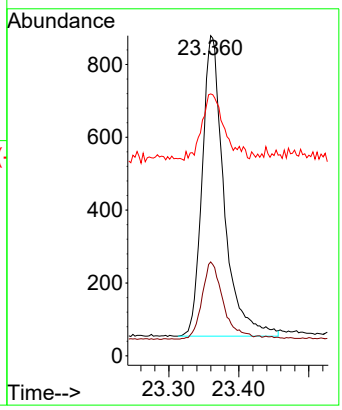


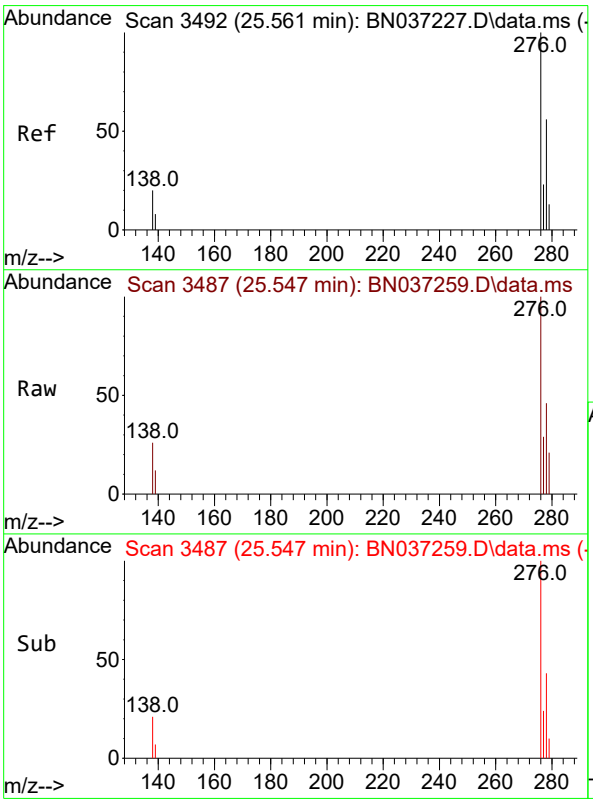
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.360 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN037259.D
Acq: 14 Jun 2025 13:23

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:264 Resp: 1789

Ion	Ratio	Lower	Upper
264	100		
260	29.4	22.8	34.2
265	81.8	66.4	99.6

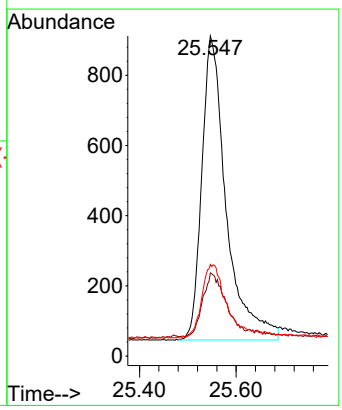


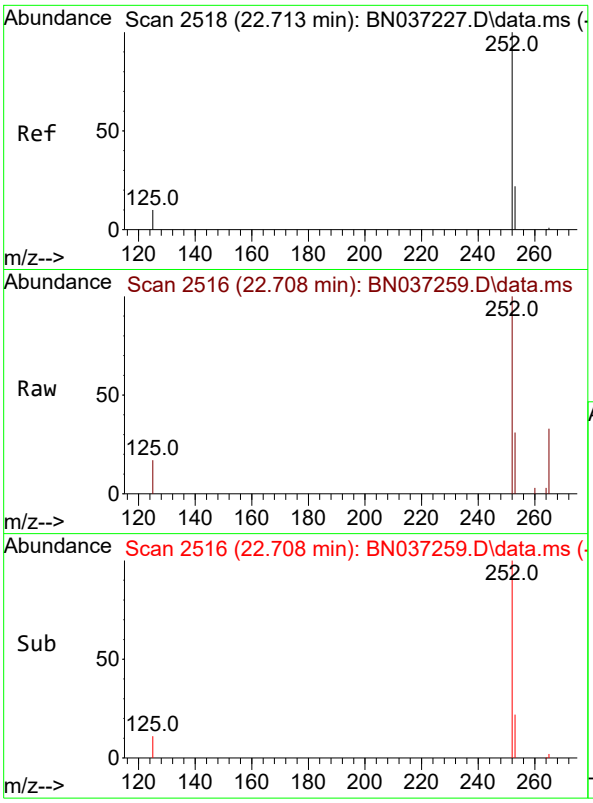


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.421 ng
RT: 25.547 min Scan# 3487
Delta R.T. -0.014 min
Lab File: BN037259.D
Acq: 14 Jun 2025 13:23

Tgt Ion:276 Resp: 3038

Ion	Ratio	Lower	Upper
276	100		
138	20.2	16.8	25.2
277	23.9	19.5	29.3



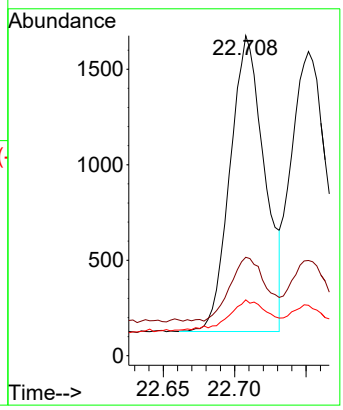


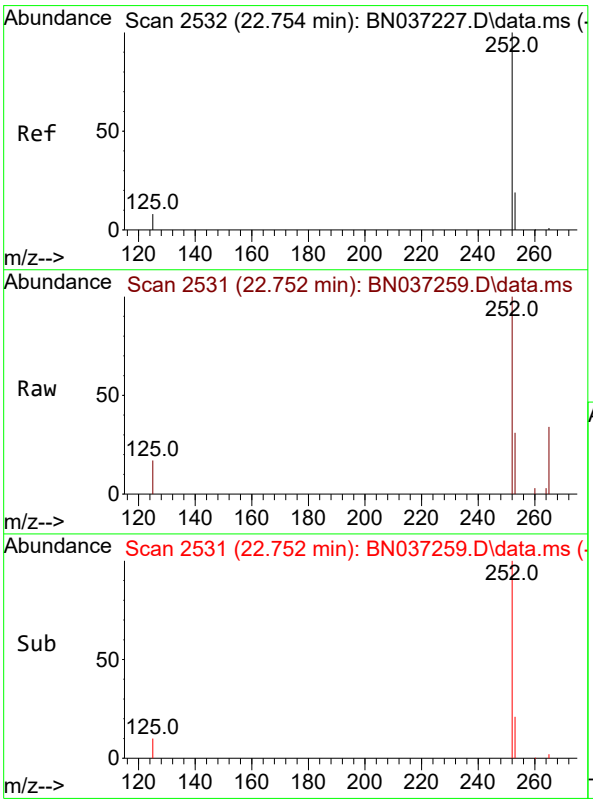
#37
Benzo(b)fluoranthene
Concen: 0.397 ng
RT: 22.708 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN037259.D
Acq: 14 Jun 2025 13:23

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 2598

Ion	Ratio	Lower	Upper
252	100		
253	30.8	24.9	37.3
125	17.5	12.9	19.3

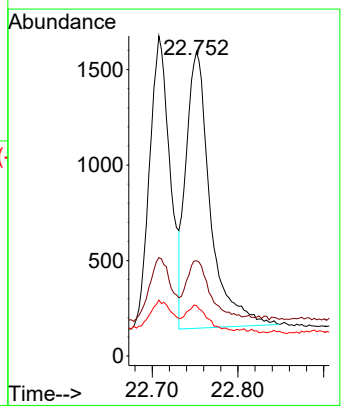


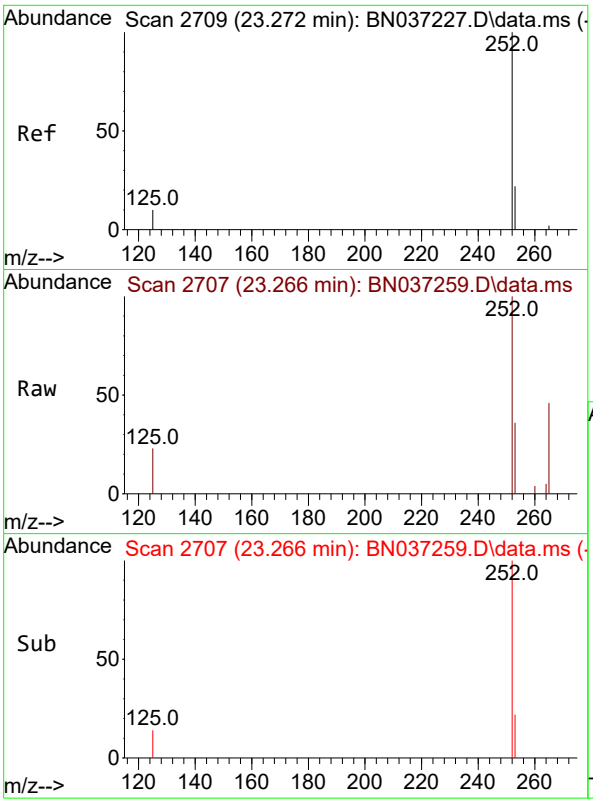


#38
Benzo(k)fluoranthene
Concen: 0.378 ng
RT: 22.752 min Scan# 2531
Delta R.T. -0.003 min
Lab File: BN037259.D
Acq: 14 Jun 2025 13:23

Tgt Ion:252 Resp: 2852

Ion	Ratio	Lower	Upper
252	100		
253	31.3	24.6	37.0
125	16.6	13.4	20.2



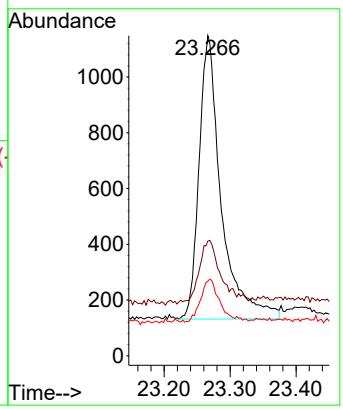


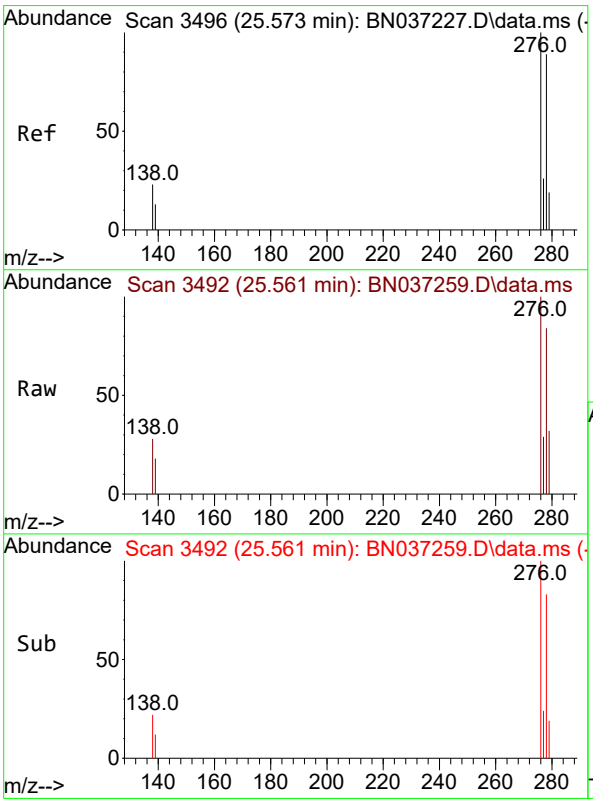
#39
Benzo(a)pyrene
Concen: 0.403 ng
RT: 23.266 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN037259.D
Acq: 14 Jun 2025 13:23

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 2372

Ion	Ratio	Lower	Upper
252	100		
253	35.8	29.4	44.2
125	23.3	16.2	24.2

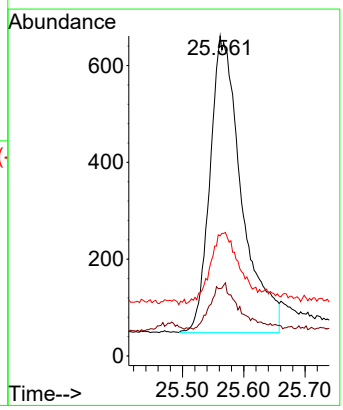


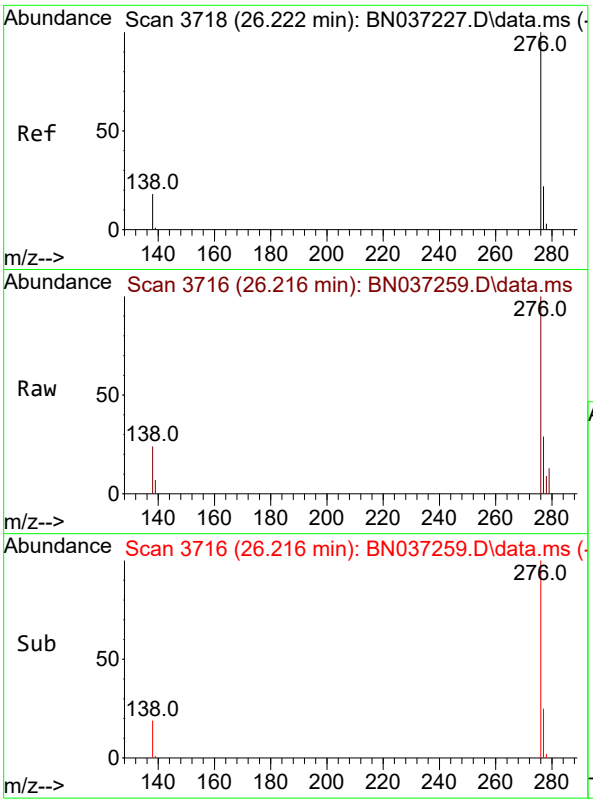


#40
Dibenzo(a,h)anthracene
Concen: 0.401 ng
RT: 25.561 min Scan# 3492
Delta R.T. -0.012 min
Lab File: BN037259.D
Acq: 14 Jun 2025 13:23

Tgt Ion:278 Resp: 2198

Ion	Ratio	Lower	Upper
278	100		
139	21.0	17.8	26.6
279	37.5	31.3	46.9



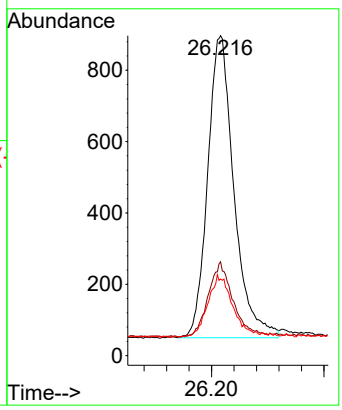


#41
Benzo(g,h,i)perylene
Concen: 0.411 ng
RT: 26.216 min Scan# 3
Delta R.T. -0.006 min
Lab File: BN037259.D
Acq: 14 Jun 2025 13:23

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:276 Resp: 2747

Ion	Ratio	Lower	Upper
276	100		
277	29.3	22.0	33.0
138	24.0	18.4	27.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037259.D
Acq On : 14 Jun 2025 13:23
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 38 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Jun 16 02:42:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 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	81	0.00
2		1,4-Dioxane	0.549	0.538	2.0	83	0.00
3		n-Nitrosodimethylamine	1.250	1.366	-9.3	87	0.00
4	S	2-Fluorophenol	0.982	0.983	-0.1	85	0.00
5	S	Phenol-d6	1.035	1.050	-1.4	88	0.00
6		bis(2-Chloroethyl)ether	0.927	0.983	-6.0	92	0.00
7	I	Naphthalene-d8	1.000	1.000	0.0	80	-0.01
8	S	Nitrobenzene-d5	0.395	0.417	-5.6	87	0.00
9		Naphthalene	1.158	1.159	-0.1	82	0.00
10		Hexachlorobutadiene	0.282	0.297	-5.3	79	0.00
11	SURR	2-Methylnaphthalene-d10	0.537	0.549	-2.2	79	0.00
12		2-Methylnaphthalene	0.704	0.694	1.4	79	0.00
13	I	Acenaphthene-d10	1.000	1.000	0.0	73	0.00
14	S	2,4,6-Tribromophenol	0.166	0.181	-9.0	77	-0.01
15	S	2-Fluorobiphenyl	1.681	1.791	-6.5	77	0.00
16		Acenaphthylene	1.960	1.942	0.9	76	0.00
17		Acenaphthene	1.265	1.247	1.4	73	0.00
18		Fluorene	1.625	1.565	3.7	72	0.00
19	I	Phenanthrene-d10	1.000	1.000	0.0	73	0.00
20		4,6-Dinitro-2-methylphenol	0.092	0.086	6.5	94	0.00
21		4-Bromophenyl-phenylether	0.261	0.249	4.6	74	0.00
22		Hexachlorobenzene	0.302	0.289	4.3	67	0.00
23		Atrazine	0.232	0.211	9.1	69	-0.01
24		Pentachlorophenol	0.148	0.158	-6.8	92	0.00
25		Phenanthrene	1.269	1.203	5.2	74	-0.01
26		Anthracene	1.161	1.077	7.2	72	0.00
27	SURR	Fluoranthene-d10	1.046	1.028	1.7	71	0.00
28		Fluoranthene	1.485	1.343	9.6	69	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	75	0.00
30		Pyrene	1.881	1.845	1.9	70	0.00
31	S	Terphenyl-d14	0.904	0.907	-0.3	71	0.00
32		Benzo(a)anthracene	1.351	1.364	-1.0	83	0.00
33		Chrysene	1.683	1.665	1.1	73	0.00
34		Bis(2-ethylhexyl)phthalate	1.006	0.993	1.3	72	0.00
35	I	Perylene-d12	1.000	1.000	0.0	83	0.00
36		Indeno(1,2,3-cd)pyrene	1.613	1.698	-5.3	94	-0.01
37		Benzo(b)fluoranthene	1.463	1.452	0.8	88	0.00
38		Benzo(k)fluoranthene	1.689	1.594	5.6	81	0.00
39	C	Benzo(a)pyrene	1.316	1.326	-0.8	89	0.00
40		Dibenzo(a,h)anthracene	1.227	1.229	-0.2	97	-0.01
41		Benzo(g,h,i)perylene	1.496	1.535	-2.6	89	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037259.D
Acq On : 14 Jun 2025 13:23
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 38 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Jun 16 02:42:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 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	0.400	0.400	0.0	81	0.00
2		1,4-Dioxane	0.400	0.392	2.0	83	0.00
3		n-Nitrosodimethylamine	0.400	0.437	-9.2	87	0.00
4	S	2-Fluorophenol	0.400	0.400	0.0	85	0.00
5	S	Phenol-d6	0.400	0.406	-1.5	88	0.00
6		bis(2-Chloroethyl)ether	0.400	0.424	-6.0	92	0.00
7	I	Naphthalene-d8	0.400	0.400	0.0	80	-0.01
8	S	Nitrobenzene-d5	0.400	0.422	-5.5	87	0.00
9		Naphthalene	0.400	0.400	0.0	82	0.00
10		Hexachlorobutadiene	0.400	0.422	-5.5	79	0.00
11	SURR	2-Methylnaphthalene-d10	0.400	0.409	-2.2	79	0.00
12		2-Methylnaphthalene	0.400	0.394	1.5	79	0.00
13	I	Acenaphthene-d10	0.400	0.400	0.0	73	0.00
14	S	2,4,6-Tribromophenol	0.400	0.437	-9.2	77	-0.01
15	S	2-Fluorobiphenyl	0.400	0.426	-6.5	77	0.00
16		Acenaphthylene	0.400	0.396	1.0	76	0.00
17		Acenaphthene	0.400	0.394	1.5	73	0.00
18		Fluorene	0.400	0.385	3.8	72	0.00
19	I	Phenanthrene-d10	0.400	0.400	0.0	73	0.00
20		4,6-Dinitro-2-methylphenol	0.400	0.443	-10.7	94	0.00
21		4-Bromophenyl-phenylether	0.400	0.383	4.3	74	0.00
22		Hexachlorobenzene	0.400	0.383	4.3	67	0.00
23		Atrazine	0.400	0.363	9.3	69	-0.01
24		Pentachlorophenol	0.400	0.428	-7.0	92	0.00
25		Phenanthrene	0.400	0.379	5.3	74	-0.01
26		Anthracene	0.400	0.371	7.3	72	0.00
27	SURR	Fluoranthene-d10	0.400	0.393	1.8	71	0.00
28		Fluoranthene	0.400	0.362	9.5	69	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	75	0.00
30		Pyrene	0.400	0.392	2.0	70	0.00
31	S	Terphenyl-d14	0.400	0.401	-0.3	71	0.00
32		Benzo(a)anthracene	0.400	0.404	-1.0	83	0.00
33		Chrysene	0.400	0.396	1.0	73	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.395	1.3	72	0.00
35	I	Perylene-d12	0.400	0.400	0.0	83	0.00
36		Indeno(1,2,3-cd)pyrene	0.400	0.421	-5.2	94	-0.01
37		Benzo(b)fluoranthene	0.400	0.397	0.8	88	0.00
38		Benzo(k)fluoranthene	0.400	0.378	5.5	81	0.00
39	C	Benzo(a)pyrene	0.400	0.403	-0.8	89	0.00
40		Dibenzo(a,h)anthracene	0.400	0.401	-0.3	97	-0.01
41		Benzo(g,h,i)perylene	0.400	0.411	-2.7	89	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q2299 SAS No.: Q2299 SDG No.: Q2299

Instrument ID: BNA_N Calibration Date/Time: 06/14/2025 20:36

Lab File ID: BN037271.D Init. Calib. Date(s): 06/13/2025 06/13/2025

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 13:33 17:11

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.537	0.576		7.3	50.0
Fluoranthene-d10	1.047	1.069		2.2	50.0
2-Fluorophenol	0.982	0.935		-4.8	50.0
Phenol-d6	1.035	1.035		0.0	50.0
Nitrobenzene-d5	0.395	0.414		4.8	50.0
2-Fluorobiphenyl	1.681	1.725		2.6	50.0
2,4,6-Tribromophenol	0.166	0.164		-1.2	50.0
Terphenyl-d14	0.904	0.930		2.9	50.0
1,4-Dioxane	0.549	0.489		-10.9	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037271.D
Acq On : 14 Jun 2025 20:36
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 50 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Jun 16 02:45:14 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration

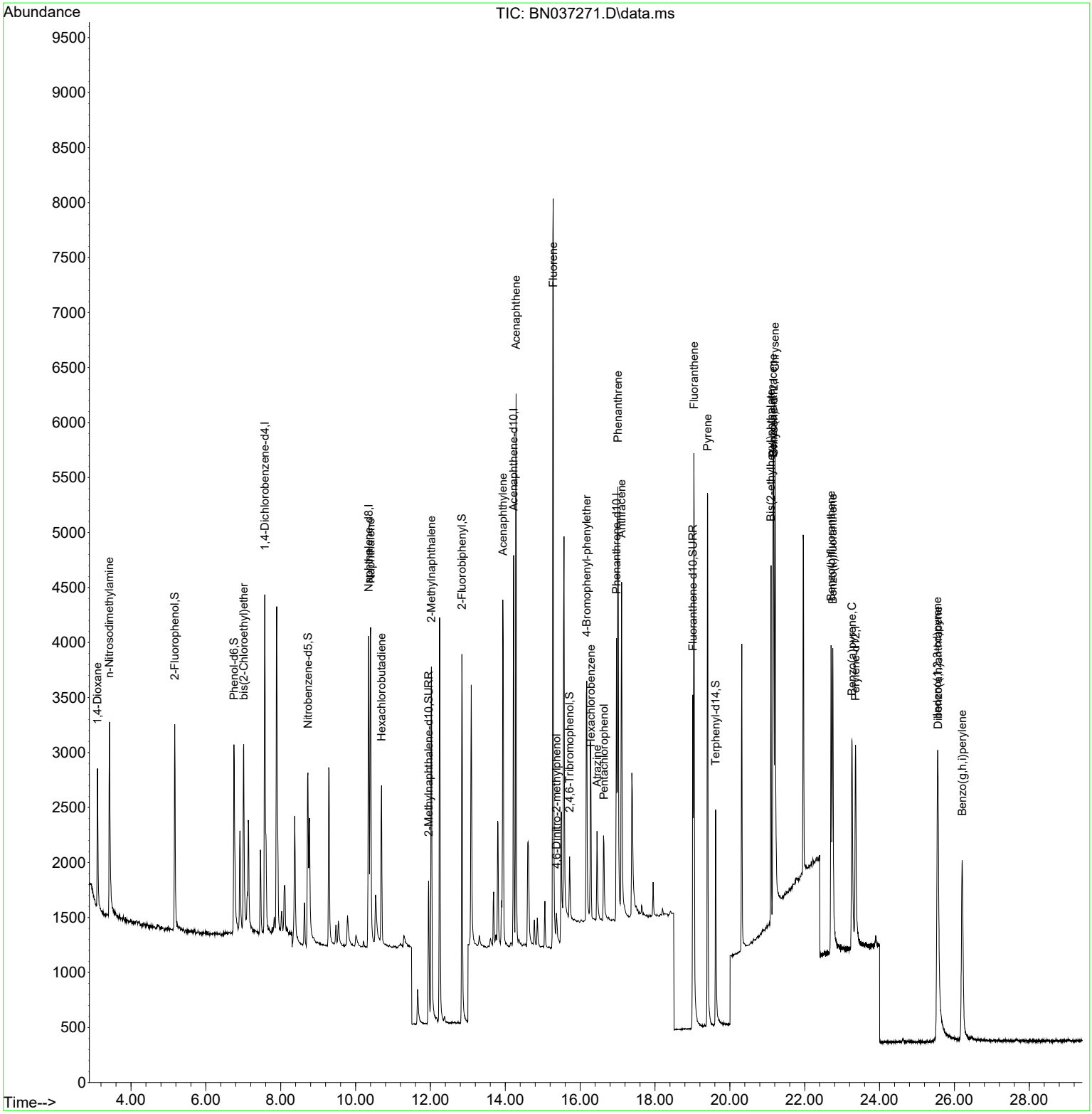
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.575	152	1498	0.400	ng		0.00
7) Naphthalene-d8	10.351	136	3700	0.400	ng		-0.01
13) Acenaphthene-d10	14.224	164	1979	0.400	ng		0.00
19) Phenanthrene-d10	16.971	188	3588	0.400	ng	#	0.00
29) Chrysene-d12	21.171	240	2692	0.400	ng		0.00
35) Perylene-d12	23.357	264	2531	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.170	112	1401	0.381	ng		0.00
5) Phenol-d6	6.752	99	1550	0.400	ng		0.00
8) Nitrobenzene-d5	8.728	82	1531	0.419	ng		0.00
11) 2-Methylnaphthalene-d10	11.950	152	2132	0.429	ng		0.00
14) 2,4,6-Tribromophenol	15.718	330	325	0.395	ng		-0.01
15) 2-Fluorobiphenyl	12.843	172	3413	0.410	ng		0.00
27) Fluoranthene-d10	19.012	212	3834	0.408	ng		0.00
31) Terphenyl-d14	19.621	244	2504	0.411	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.104	88	732	0.356	ng		95
3) n-Nitrosodimethylamine	3.422	42	1876	0.401	ng		99
6) bis(2-Chloroethyl)ether	7.012	93	1530	0.441	ng		89
9) Naphthalene	10.404	128	4283	0.400	ng		99
10) Hexachlorobutadiene	10.693	225	1093	0.419	ng	#	100
12) 2-Methylnaphthalene	12.026	142	2597	0.399	ng		97
16) Acenaphthylene	13.935	152	3671	0.379	ng		99
17) Acenaphthene	14.288	154	2389	0.382	ng		99
18) Fluorene	15.282	166	3061	0.381	ng		99
20) 4,6-Dinitro-2-methylph...	15.368	198	271	0.404	ng		93
21) 4-Bromophenyl-phenylether	16.177	248	920	0.393	ng	#	84
22) Hexachlorobenzene	16.289	284	1060	0.391	ng		96
23) Atrazine	16.450	200	816	0.391	ng		94
24) Pentachlorophenol	16.636	266	503	0.379	ng		99
25) Phenanthrene	17.009	178	4398	0.386	ng		99
26) Anthracene	17.108	178	3988	0.383	ng		100
28) Fluoranthene	19.040	202	5054	0.379	ng		99
30) Pyrene	19.407	202	5049	0.399	ng		100
32) Benzo(a)anthracene	21.153	228	3437	0.378	ng		100
33) Chrysene	21.207	228	4510	0.398	ng		100
34) Bis(2-ethylhexyl)phtha...	21.099	149	2710	0.400	ng		98
36) Indeno(1,2,3-cd)pyrene	25.547	276	3975	0.389	ng		99
37) Benzo(b)fluoranthene	22.705	252	3621	0.391	ng		98
38) Benzo(k)fluoranthene	22.749	252	3967	0.371	ng		96
39) Benzo(a)pyrene	23.260	252	3312	0.398	ng		95
40) Dibenzo(a,h)anthracene	25.561	278	3030	0.390	ng		94
41) Benzo(g,h,i)perylene	26.208	276	3692	0.390	ng		99

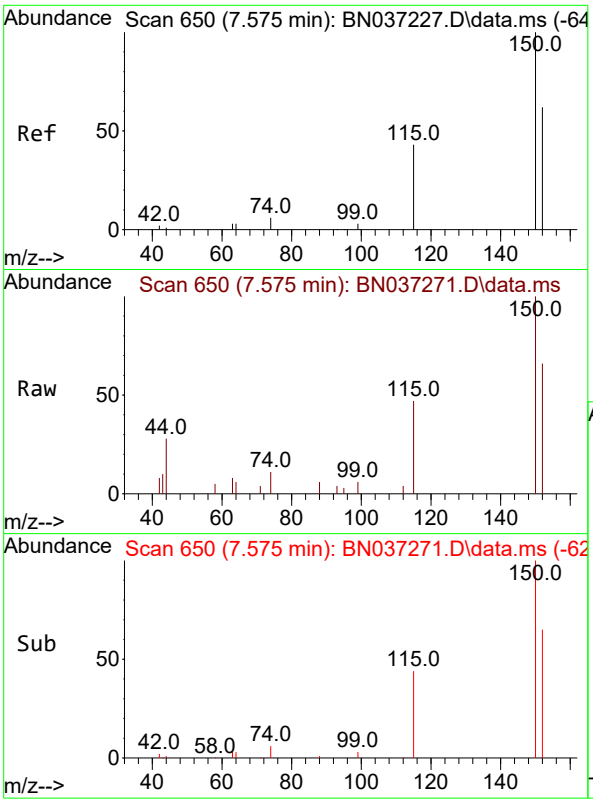
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037271.D
Acq On : 14 Jun 2025 20:36
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 50 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Jun 16 02:45:14 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration



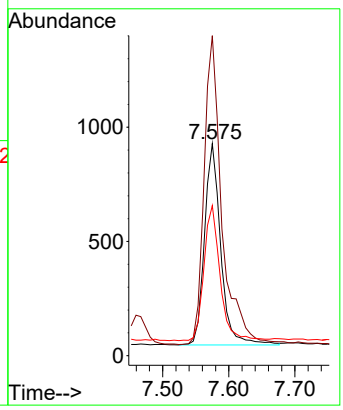


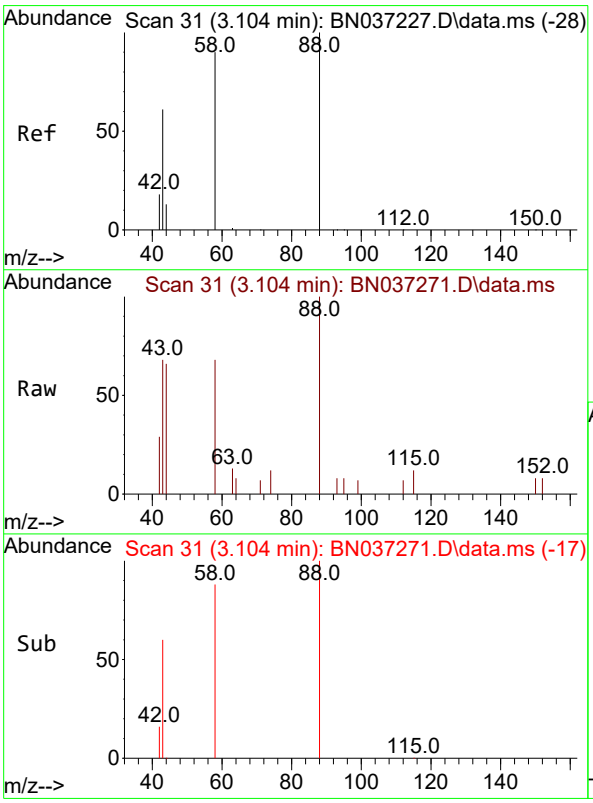
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN037271.D
Acq: 14 Jun 2025 20:36

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 1498

Ion	Ratio	Lower	Upper
152	100		
150	151.0	125.2	187.8
115	70.8	58.4	87.6

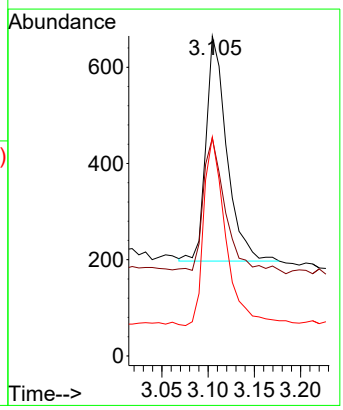


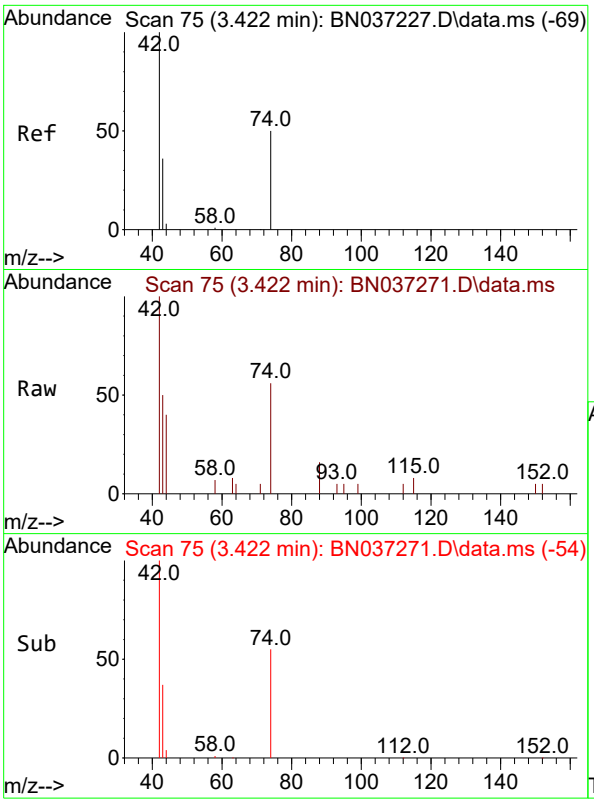


#2
1,4-Dioxane
Concen: 0.356 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037271.D
Acq: 14 Jun 2025 20:36

Tgt Ion: 88 Resp: 732

Ion	Ratio	Lower	Upper
88	100		
43	59.4	52.6	79.0
58	89.2	73.5	110.3



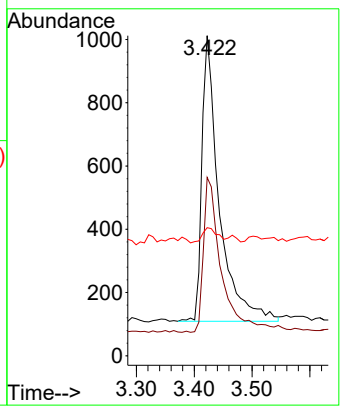


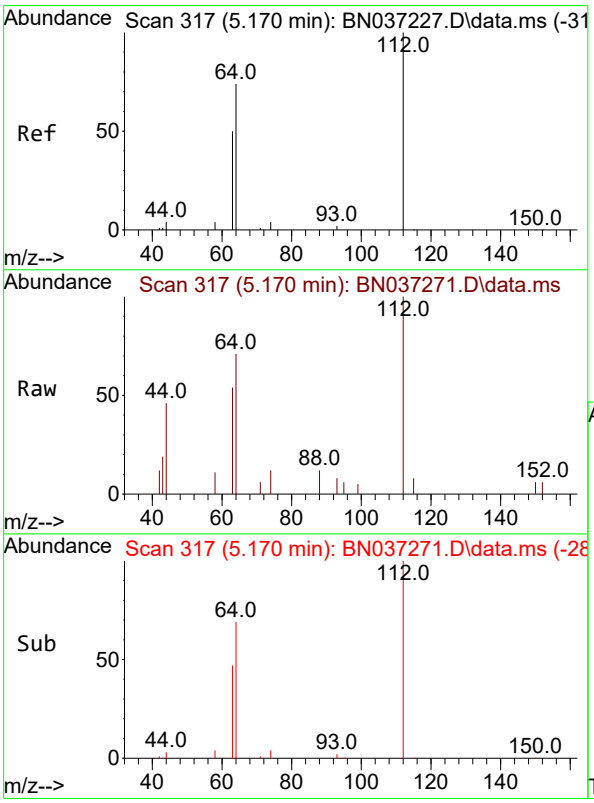
#3
n-Nitrosodimethylamine
Concen: 0.401 ng
RT: 3.422 min Scan# 7
Delta R.T. 0.000 min
Lab File: BN037271.D
Acq: 14 Jun 2025 20:36

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 42 Resp: 1876

Ion	Ratio	Lower	Upper
42	100		
74	56.1	44.6	66.8
44	4.6	3.5	5.3

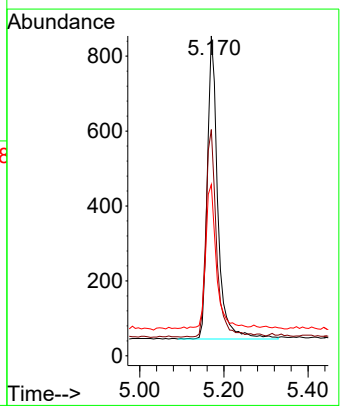


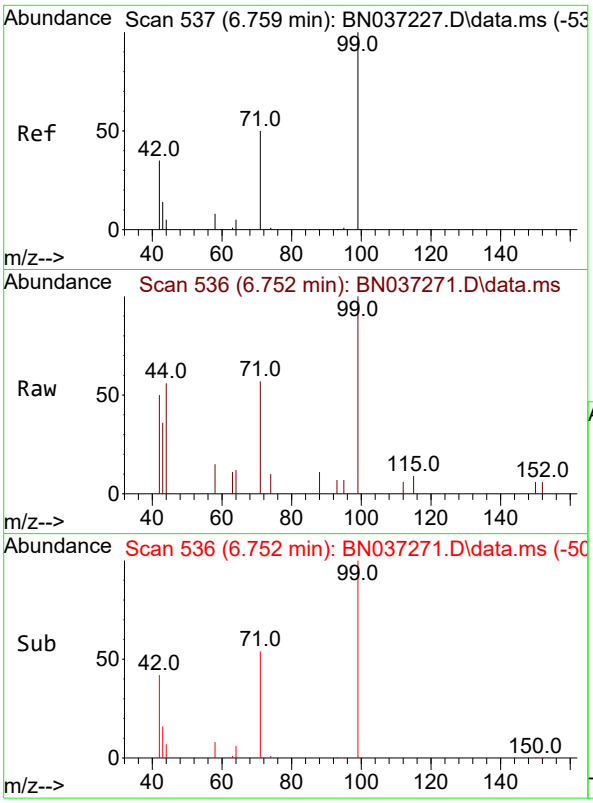


#4
2-Fluorophenol
Concen: 0.381 ng
RT: 5.170 min Scan# 317
Delta R.T. 0.000 min
Lab File: BN037271.D
Acq: 14 Jun 2025 20:36

Tgt Ion:112 Resp: 1401

Ion	Ratio	Lower	Upper
112	100		
64	68.4	57.2	85.8
63	48.5	39.8	59.6



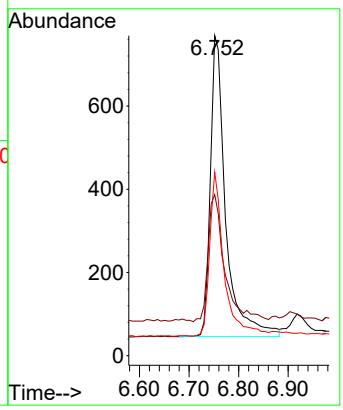


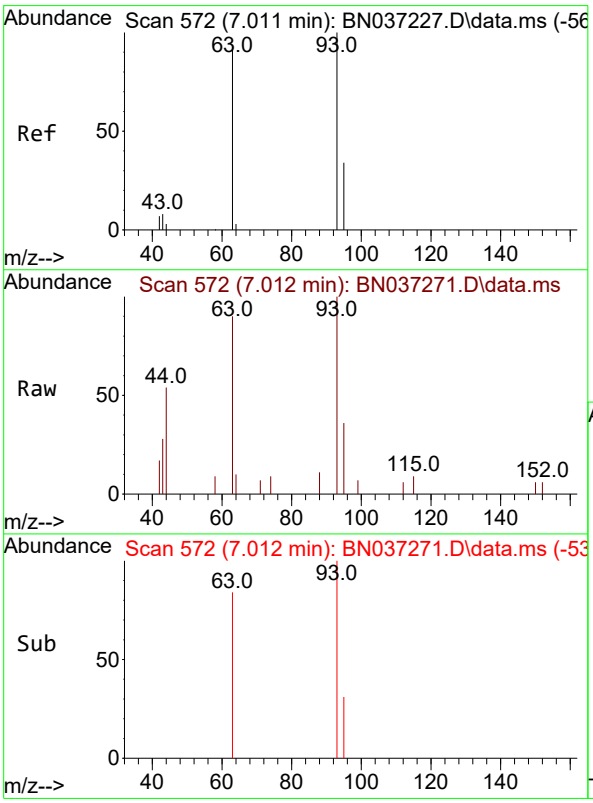
#5
Phenol-d6
Concen: 0.400 ng
RT: 6.752 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN037271.D
Acq: 14 Jun 2025 20:36

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 99 Resp: 1550

Ion	Ratio	Lower	Upper
99	100		
42	45.9	36.2	54.4
71	51.2	42.4	63.6

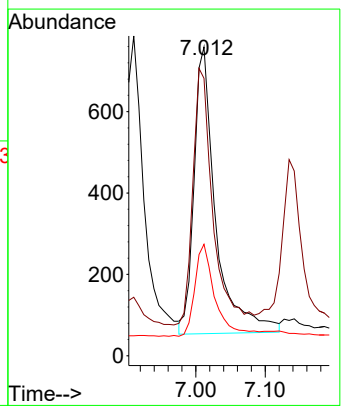


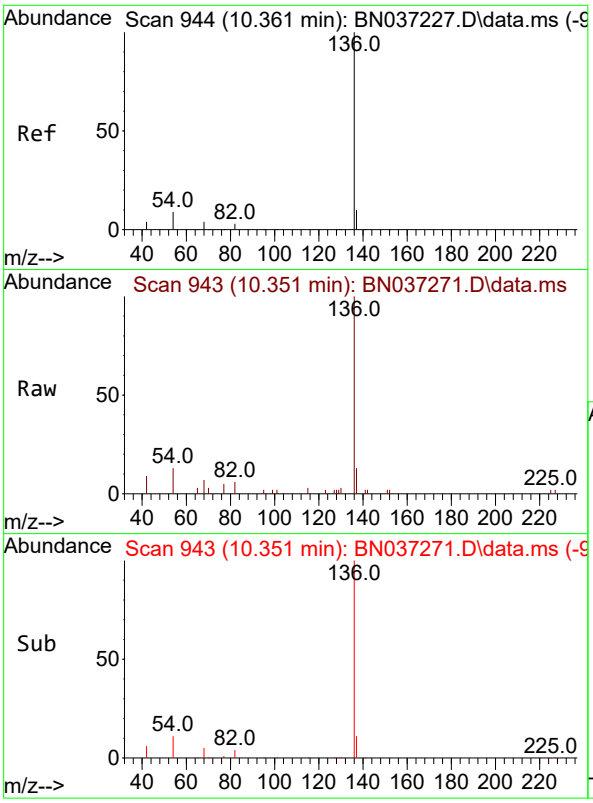


#6
bis(2-Chloroethyl)ether
Concen: 0.441 ng
RT: 7.012 min Scan# 572
Delta R.T. 0.000 min
Lab File: BN037271.D
Acq: 14 Jun 2025 20:36

Tgt Ion: 93 Resp: 1530

Ion	Ratio	Lower	Upper
93	100		
63	82.7	75.2	112.8
95	30.0	28.3	42.5



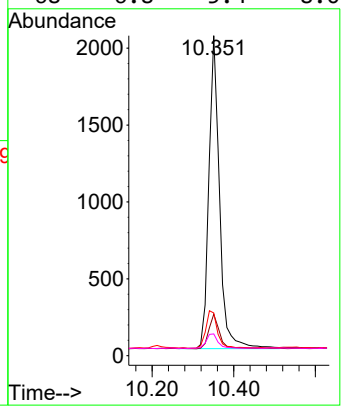


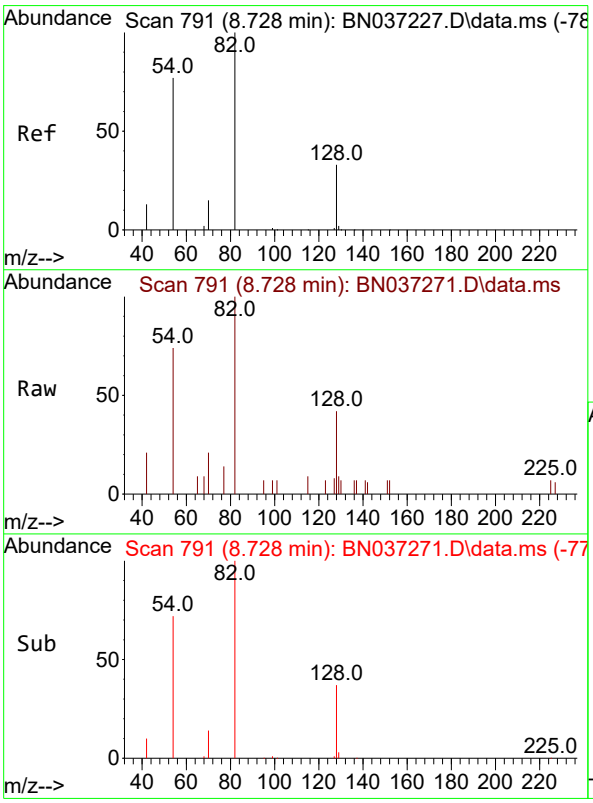
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 94
Delta R.T. -0.010 min
Lab File: BN037271.D
Acq: 14 Jun 2025 20:36

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:136 Resp: 3700

Ion	Ratio	Lower	Upper
136	100		
137	13.0	10.6	15.8
54	13.4	9.2	13.8
68	6.8	5.4	8.0

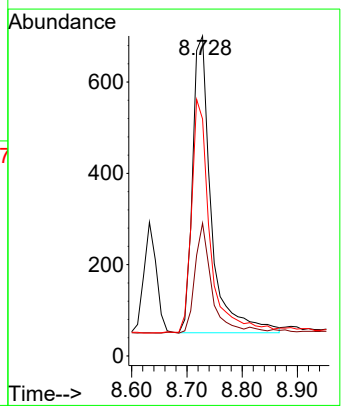


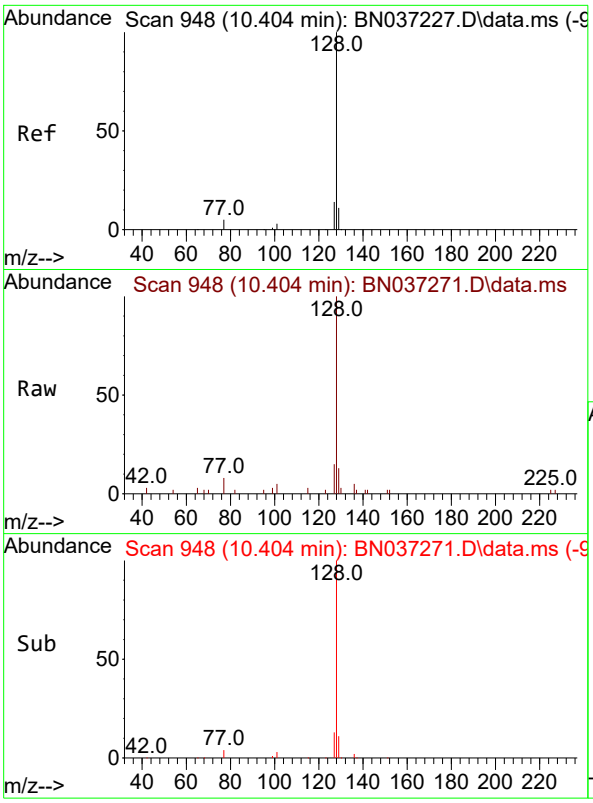


#8
Nitrobenzene-d5
Concen: 0.419 ng
RT: 8.728 min Scan# 791
Delta R.T. 0.000 min
Lab File: BN037271.D
Acq: 14 Jun 2025 20:36

Tgt Ion: 82 Resp: 1531

Ion	Ratio	Lower	Upper
82	100		
128	41.5	31.2	46.8
54	74.0	63.3	94.9



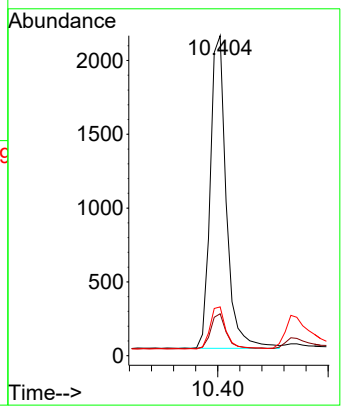


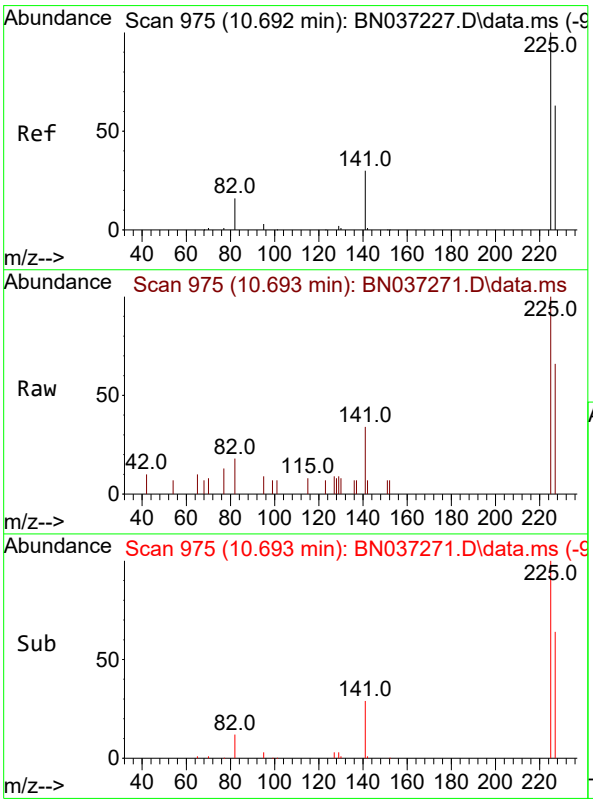
#9
Naphthalene
Concen: 0.400 ng
RT: 10.404 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037271.D
Acq: 14 Jun 2025 20:36

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:128 Resp: 4283

Ion	Ratio	Lower	Upper
128	100		
129	13.1	10.7	16.1
127	15.3	12.6	19.0

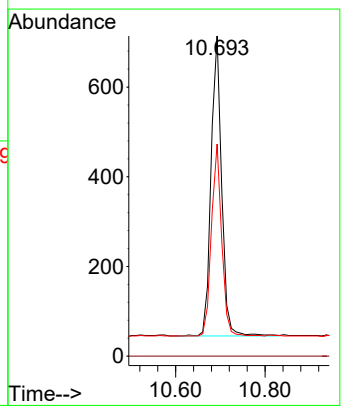


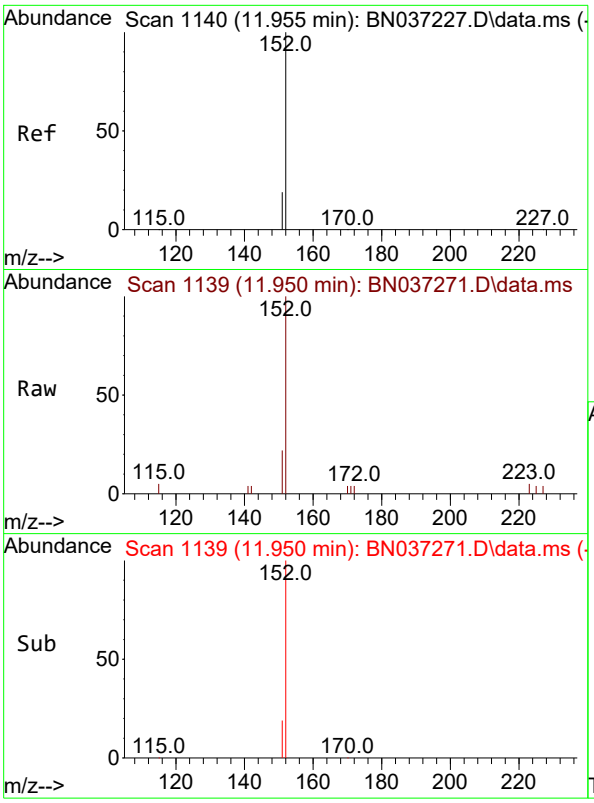


#10
Hexachlorobutadiene
Concen: 0.419 ng
RT: 10.693 min Scan# 975
Delta R.T. 0.000 min
Lab File: BN037271.D
Acq: 14 Jun 2025 20:36

Tgt Ion:225 Resp: 1093

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	61.8	49.2	73.8



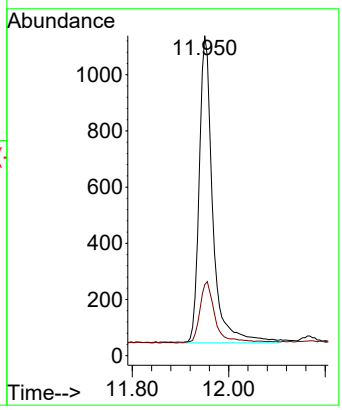


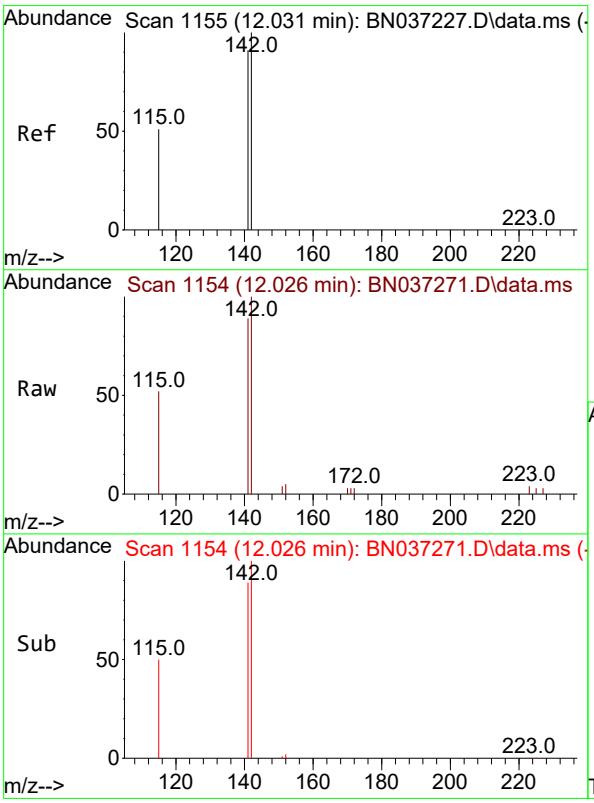
#11
2-Methylnaphthalene-d10
Concen: 0.429 ng
RT: 11.950 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN037271.D
Acq: 14 Jun 2025 20:36

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 2132

Ion	Ratio	Lower	Upper
152	100		
151	21.2	17.9	26.9

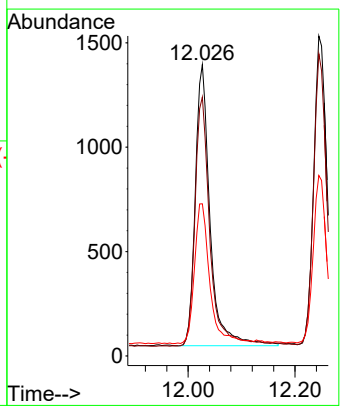


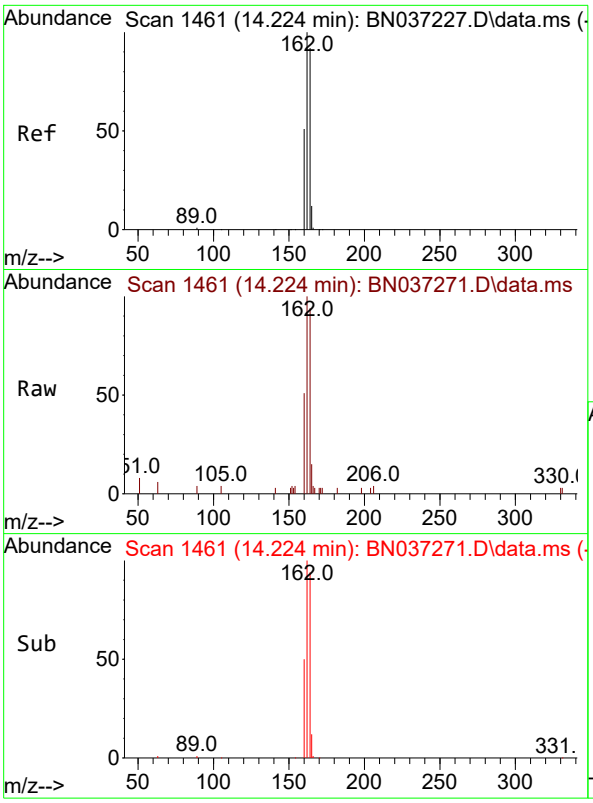


#12
2-Methylnaphthalene
Concen: 0.399 ng
RT: 12.026 min Scan# 1154
Delta R.T. -0.005 min
Lab File: BN037271.D
Acq: 14 Jun 2025 20:36

Tgt Ion:142 Resp: 2597

Ion	Ratio	Lower	Upper
142	100		
141	88.8	73.0	109.6
115	52.2	43.3	64.9



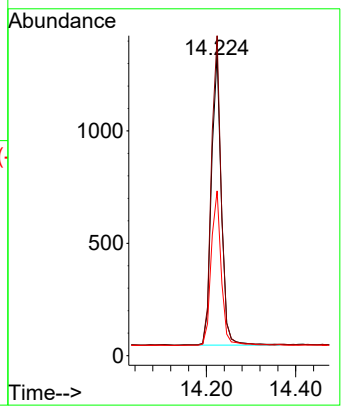


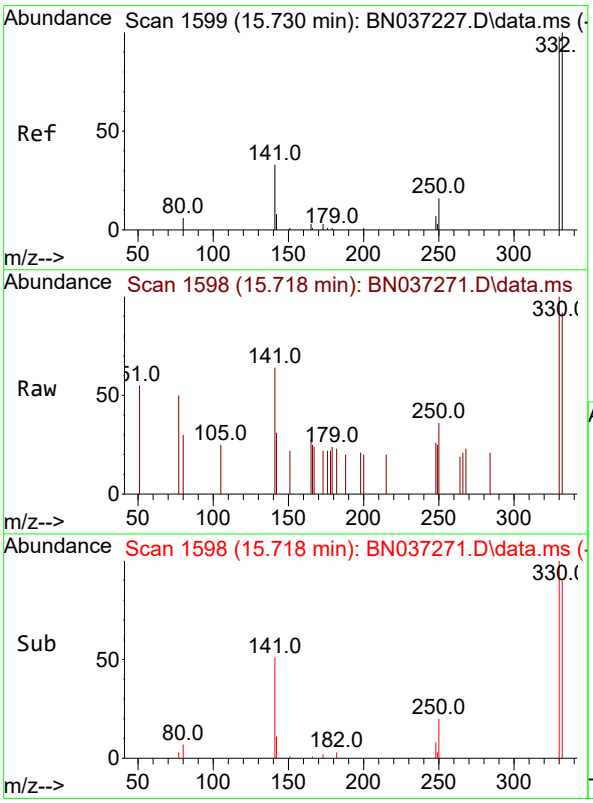
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037271.D
Acq: 14 Jun 2025 20:36

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:164 Resp: 1979

Ion	Ratio	Lower	Upper
164	100		
162	106.4	86.7	130.1
160	54.8	45.8	68.6

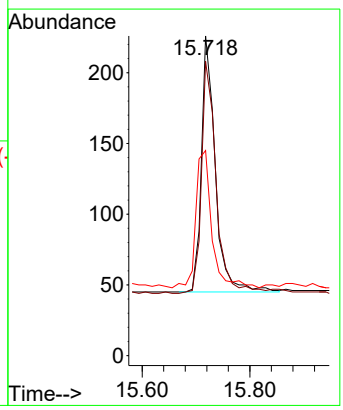


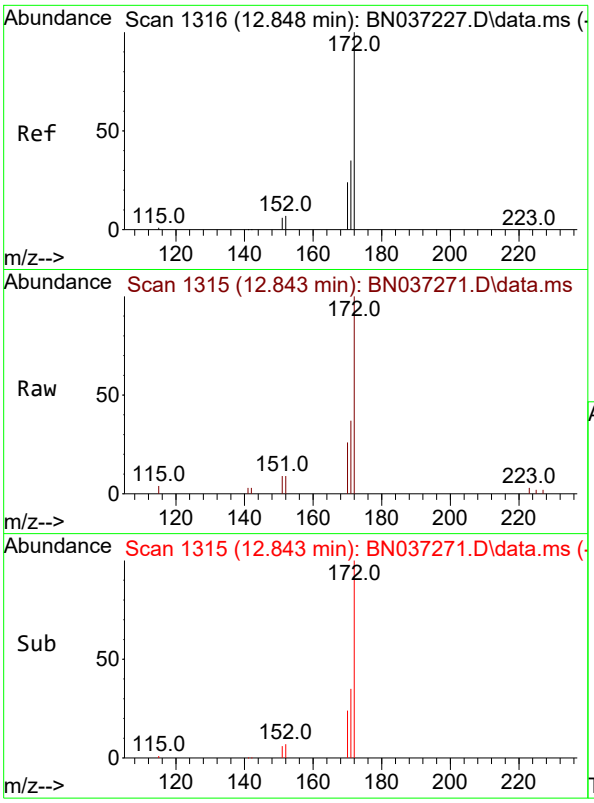


#14
2,4,6-Tribromophenol
Concen: 0.395 ng
RT: 15.718 min Scan# 1598
Delta R.T. -0.012 min
Lab File: BN037271.D
Acq: 14 Jun 2025 20:36

Tgt Ion:330 Resp: 325

Ion	Ratio	Lower	Upper
330	100		
332	95.4	74.9	112.3
141	61.2	45.1	67.7



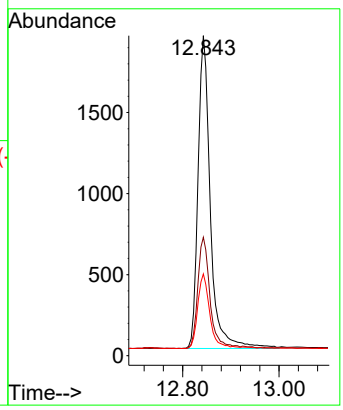


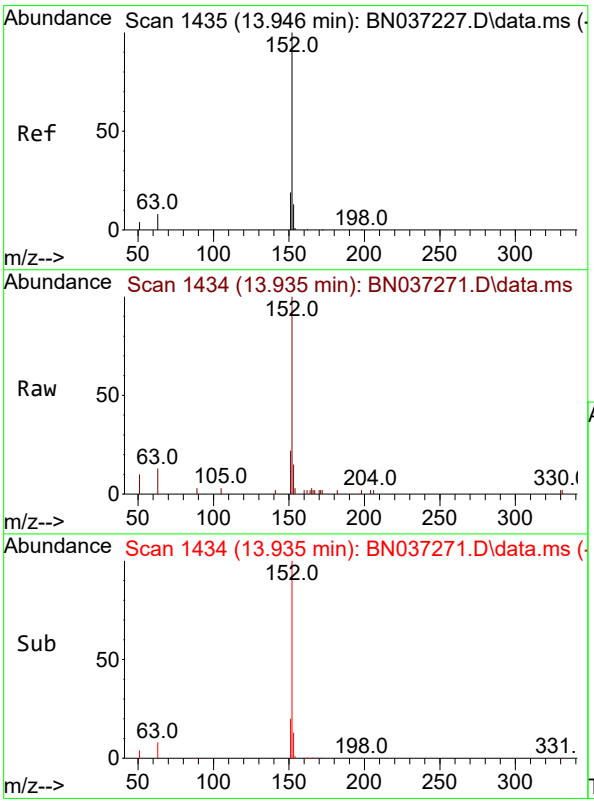
#15
2-Fluorobiphenyl
Concen: 0.410 ng
RT: 12.843 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN037271.D
Acq: 14 Jun 2025 20:36

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:172 Resp: 3413

Ion	Ratio	Lower	Upper
172	100		
171	37.0	29.8	44.8
170	25.6	21.1	31.7

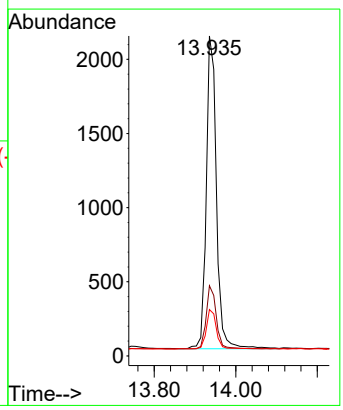


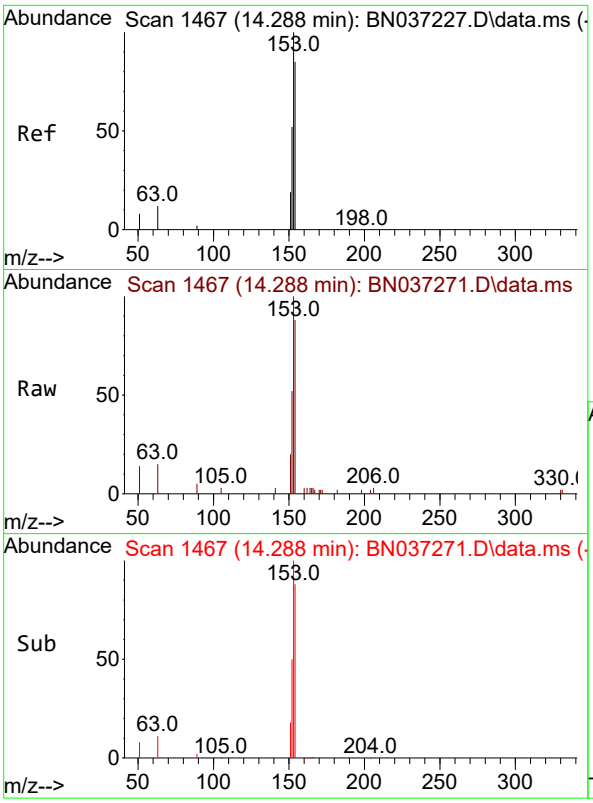


#16
Acenaphthylene
Concen: 0.379 ng
RT: 13.935 min Scan# 1434
Delta R.T. -0.010 min
Lab File: BN037271.D
Acq: 14 Jun 2025 20:36

Tgt Ion:152 Resp: 3671

Ion	Ratio	Lower	Upper
152	100		
151	19.8	15.7	23.5
153	12.9	10.7	16.1



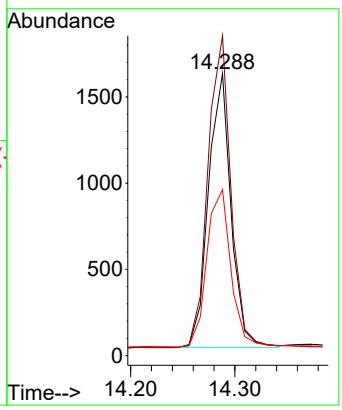


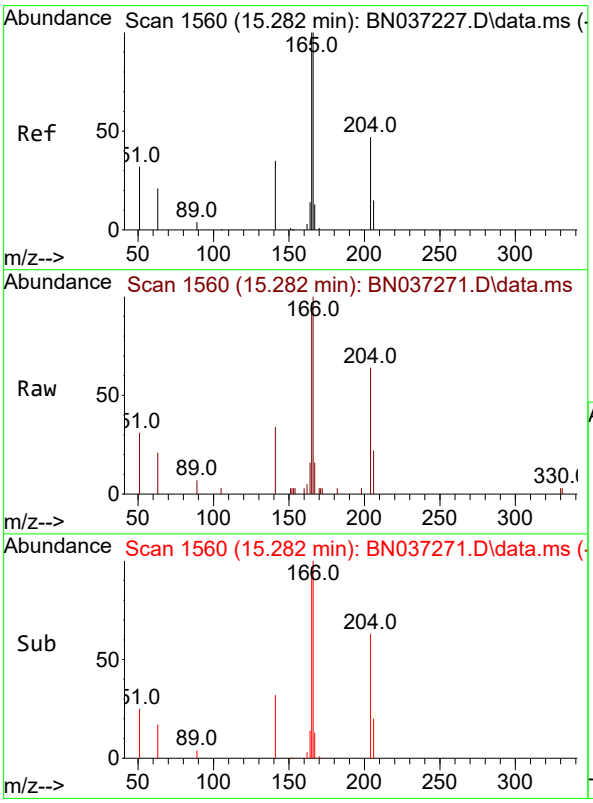
#17
Acenaphthene
Concen: 0.382 ng
RT: 14.288 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037271.D
Acq: 14 Jun 2025 20:36

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:154 Resp: 2389

Ion	Ratio	Lower	Upper
154	100		
153	117.5	94.6	141.8
152	61.7	49.6	74.4

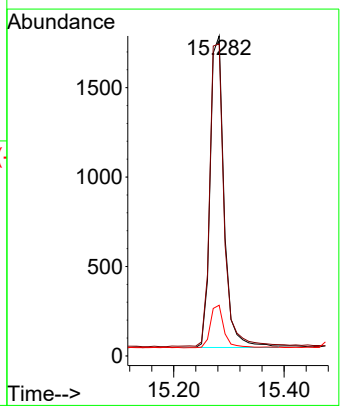


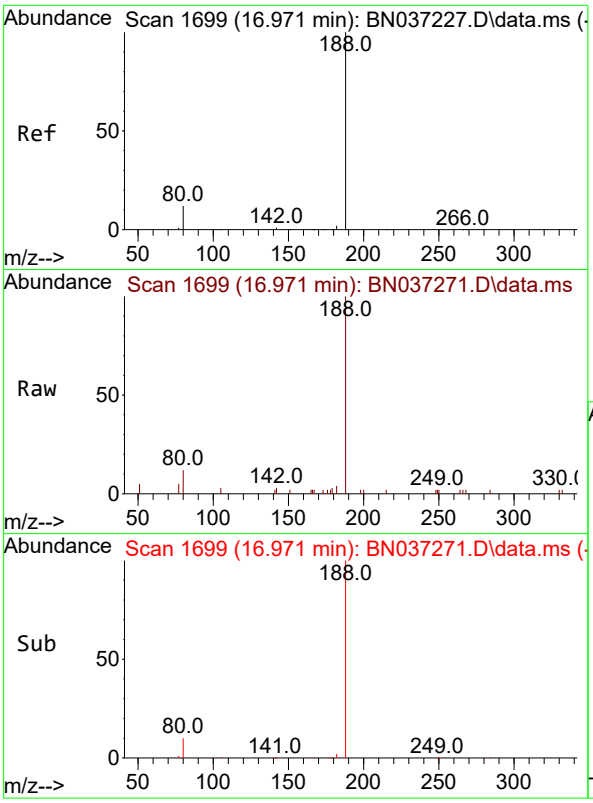


#18
Fluorene
Concen: 0.381 ng
RT: 15.282 min Scan# 1560
Delta R.T. 0.000 min
Lab File: BN037271.D
Acq: 14 Jun 2025 20:36

Tgt Ion:166 Resp: 3061

Ion	Ratio	Lower	Upper
166	100		
165	100.6	79.8	119.6
167	13.6	10.8	16.2



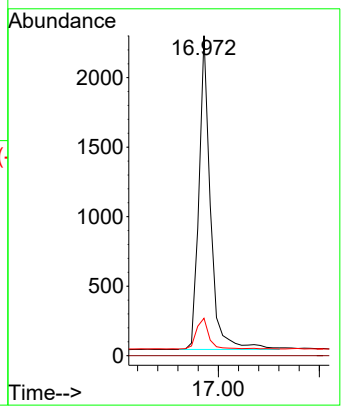


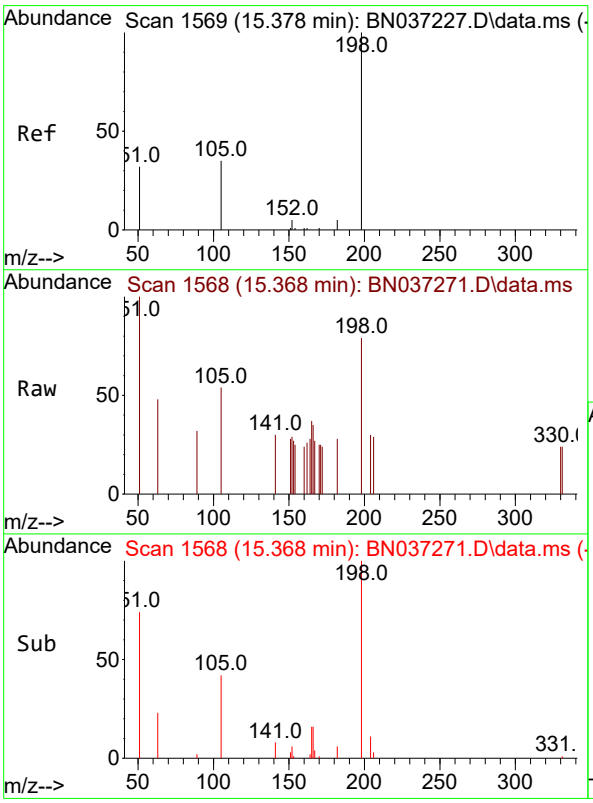
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037271.D
Acq: 14 Jun 2025 20:36

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:188 Resp: 3588

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.7	12.2	18.4#

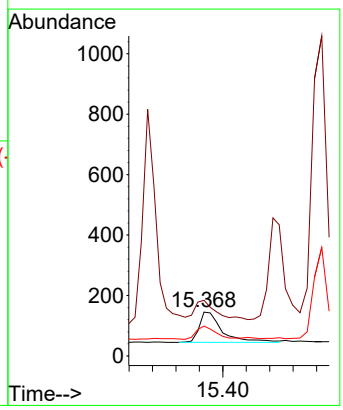


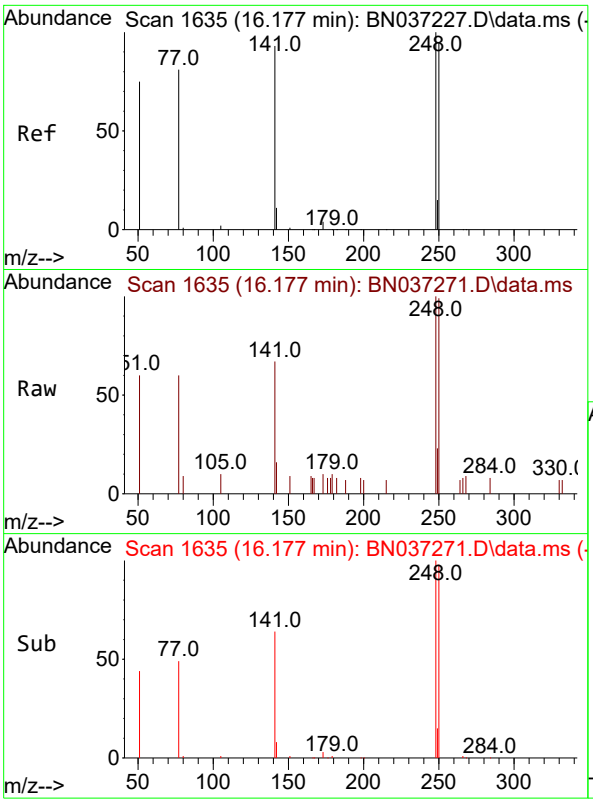


#20
4,6-Dinitro-2-methylphenol
Concen: 0.404 ng
RT: 15.368 min Scan# 1568
Delta R.T. -0.010 min
Lab File: BN037271.D
Acq: 14 Jun 2025 20:36

Tgt Ion:198 Resp: 271

Ion	Ratio	Lower	Upper
198	100		
51	126.9	111.2	166.8
105	68.3	54.0	81.0



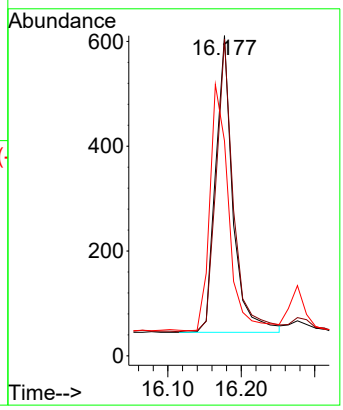


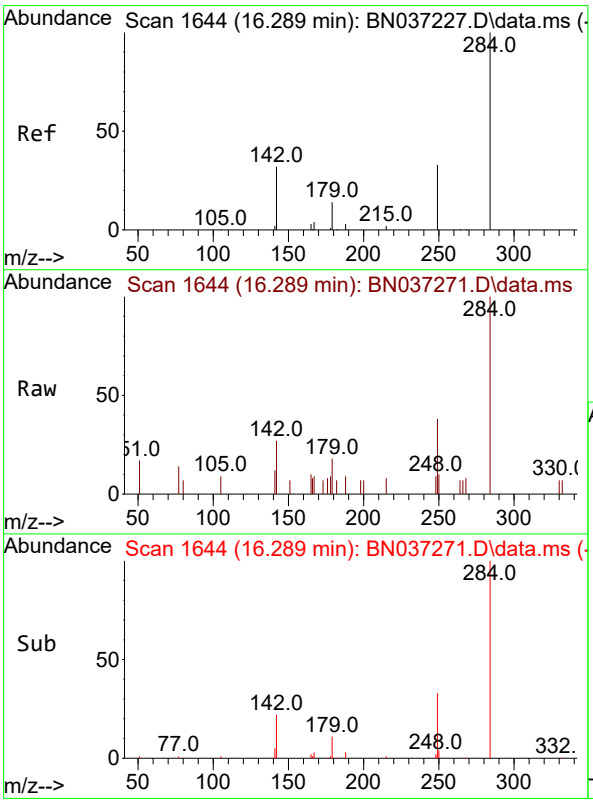
#21
4-Bromophenyl-phenylether
Concen: 0.393 ng
RT: 16.177 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037271.D
Acq: 14 Jun 2025 20:36

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:248 Resp: 920

Ion	Ratio	Lower	Upper
248	100		
250	98.9	76.8	115.2
141	67.1	75.6	113.4#

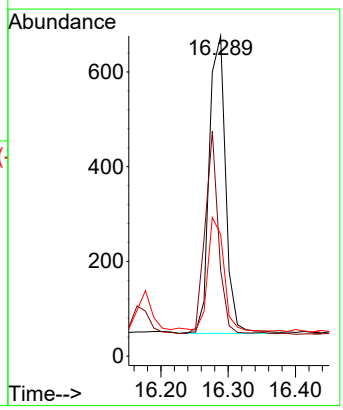


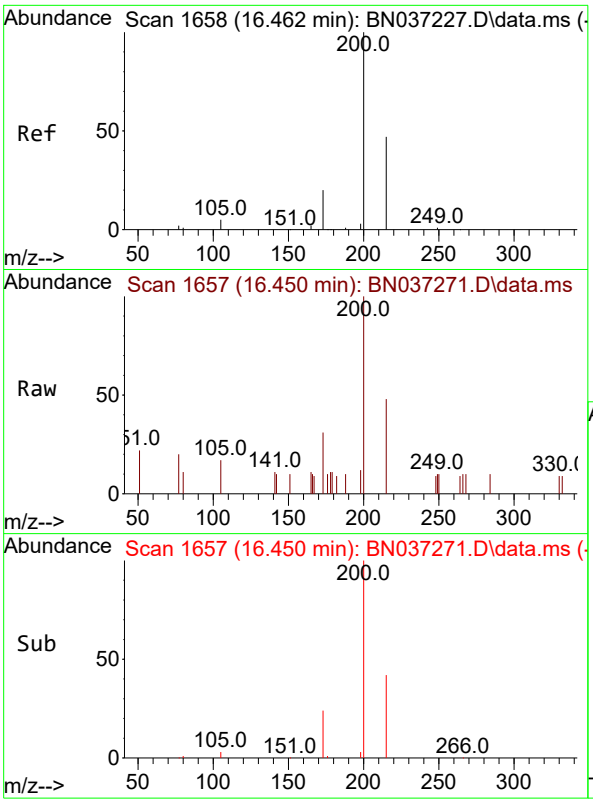


#22
Hexachlorobenzene
Concen: 0.391 ng
RT: 16.289 min Scan# 1644
Delta R.T. 0.000 min
Lab File: BN037271.D
Acq: 14 Jun 2025 20:36

Tgt Ion:284 Resp: 1060

Ion	Ratio	Lower	Upper
284	100		
142	57.3	43.8	65.6
249	38.2	28.4	42.6



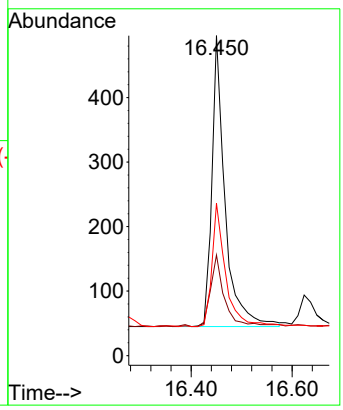


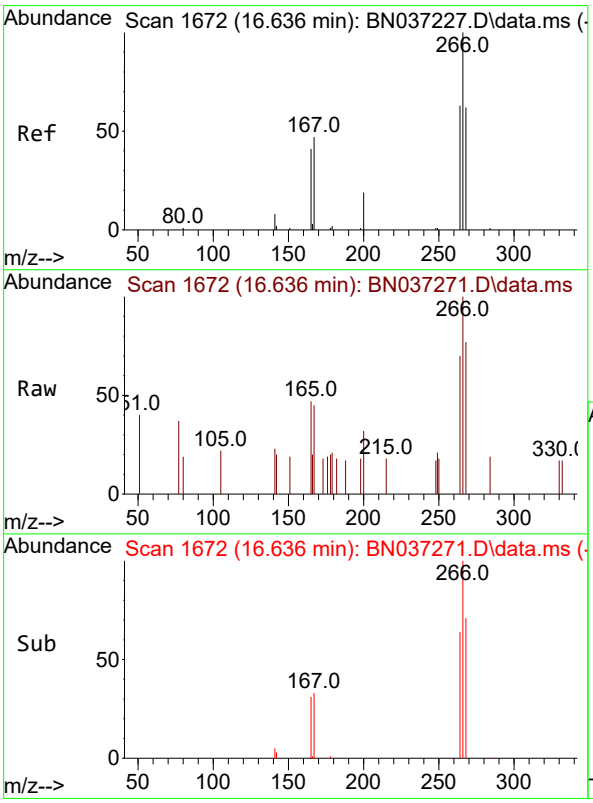
#23
Atrazine
Concen: 0.391 ng
RT: 16.450 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN037271.D
Acq: 14 Jun 2025 20:36

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:200 Resp: 816

Ion	Ratio	Lower	Upper
200	100		
173	31.5	25.1	37.7
215	47.6	43.7	65.5

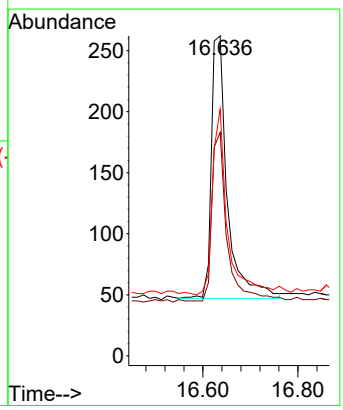


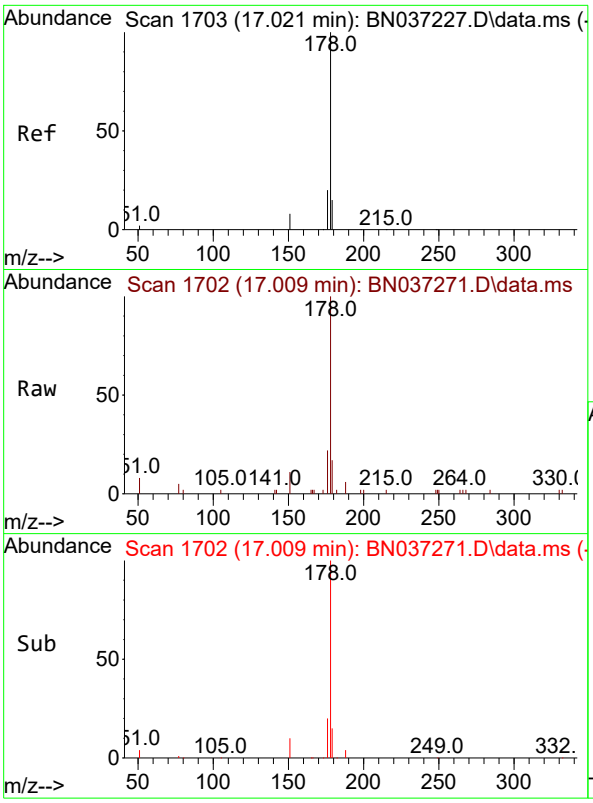


#24
Pentachlorophenol
Concen: 0.379 ng
RT: 16.636 min Scan# 1672
Delta R.T. 0.000 min
Lab File: BN037271.D
Acq: 14 Jun 2025 20:36

Tgt Ion:266 Resp: 503

Ion	Ratio	Lower	Upper
266	100		
264	60.0	49.2	73.8
268	67.4	53.4	80.2



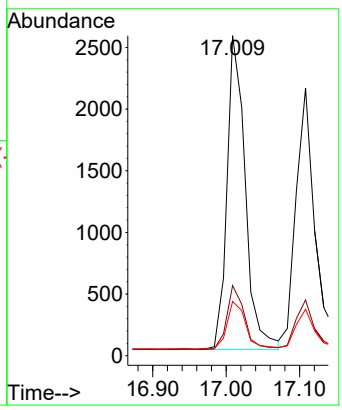


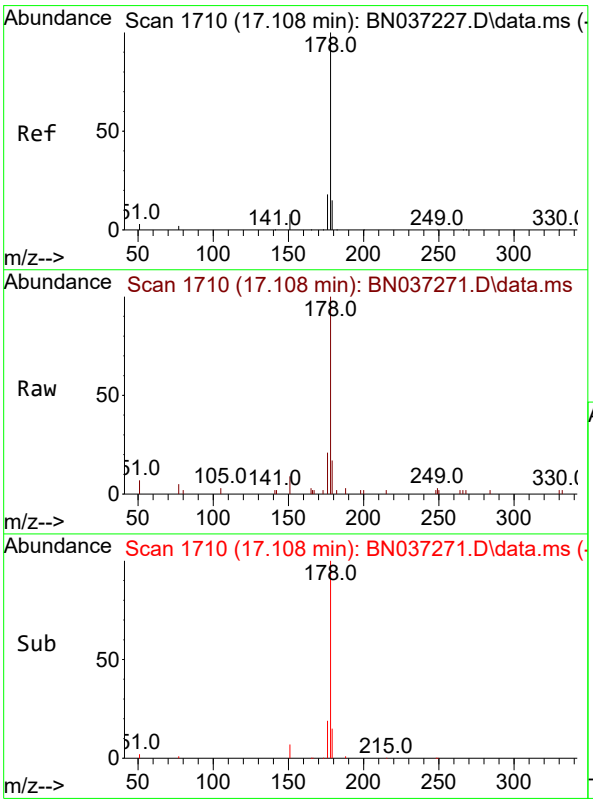
#25
Phenanthrene
Concen: 0.386 ng
RT: 17.009 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037271.D
Acq: 14 Jun 2025 20:36

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:178 Resp: 4398

Ion	Ratio	Lower	Upper
178	100		
176	19.7	16.3	24.5
179	15.6	12.6	18.8

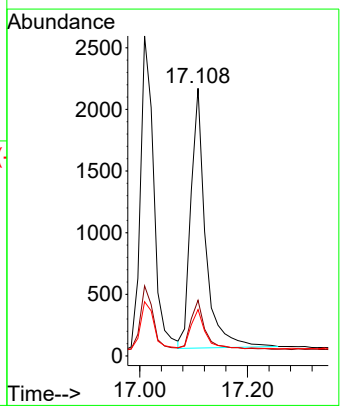


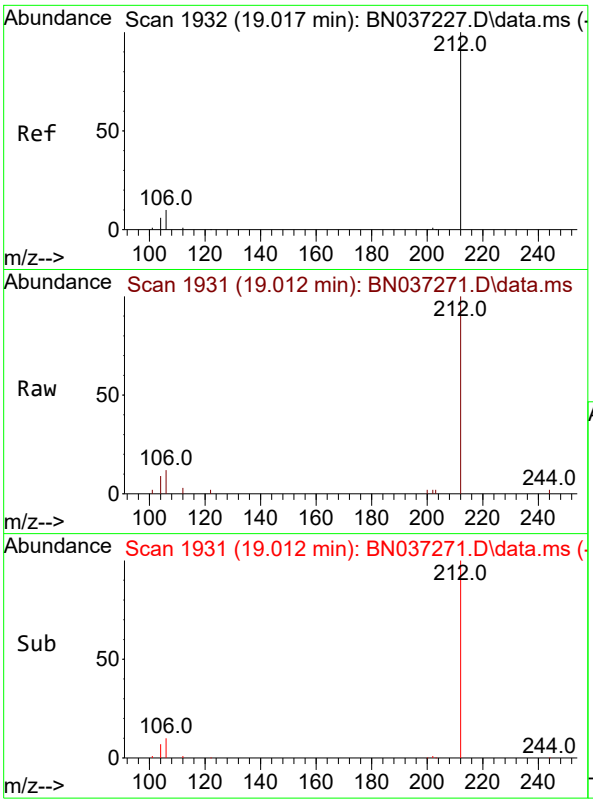


#26
Anthracene
Concen: 0.383 ng
RT: 17.108 min Scan# 1710
Delta R.T. 0.000 min
Lab File: BN037271.D
Acq: 14 Jun 2025 20:36

Tgt Ion:178 Resp: 3988

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.1	22.7
179	15.4	12.4	18.6



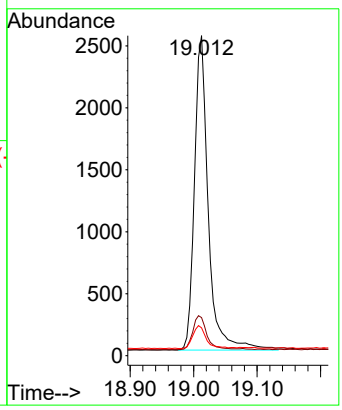


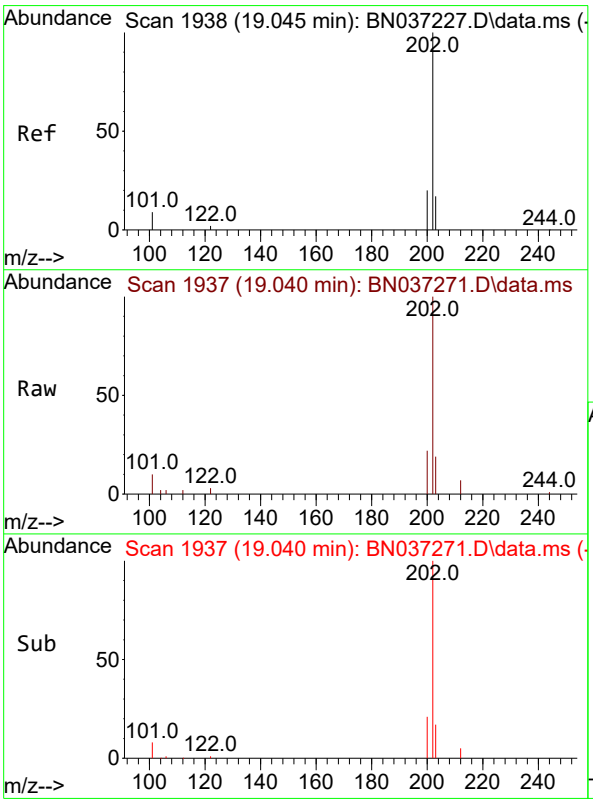
#27
Fluoranthene-d10
Concen: 0.408 ng
RT: 19.012 min Scan# 1
Delta R.T. -0.004 min
Lab File: BN037271.D
Acq: 14 Jun 2025 20:36

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:212 Resp: 3834

Ion	Ratio	Lower	Upper
212	100		
106	10.9	9.3	13.9
104	6.9	5.7	8.5

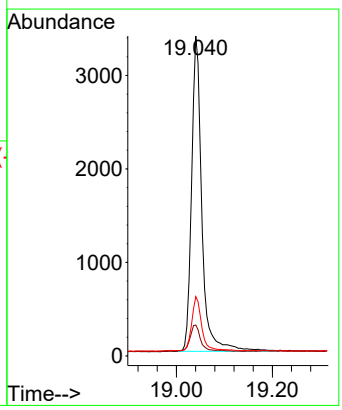


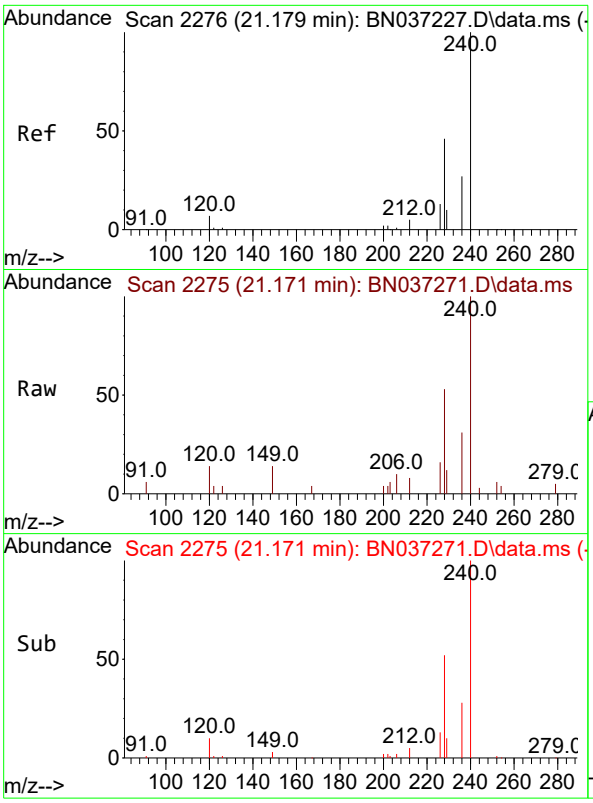


#28
Fluoranthene
Concen: 0.379 ng
RT: 19.040 min Scan# 1937
Delta R.T. -0.004 min
Lab File: BN037271.D
Acq: 14 Jun 2025 20:36

Tgt Ion:202 Resp: 5054

Ion	Ratio	Lower	Upper
202	100		
101	9.2	7.1	10.7
203	16.6	13.0	19.6



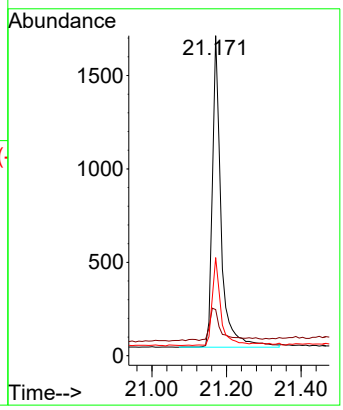


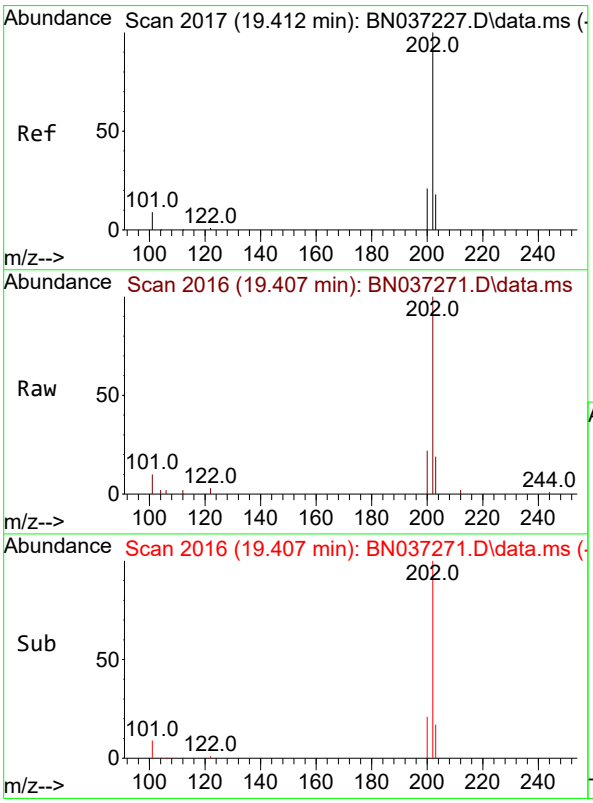
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.171 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037271.D
Acq: 14 Jun 2025 20:36

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:240 Resp: 2692

Ion	Ratio	Lower	Upper
240	100		
120	14.4	11.3	16.9
236	30.6	24.4	36.6

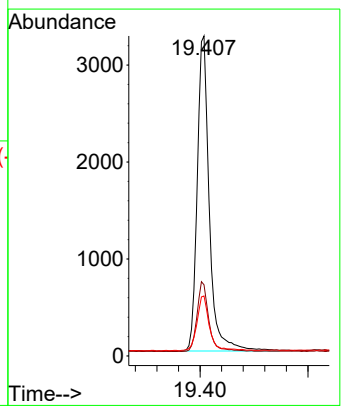


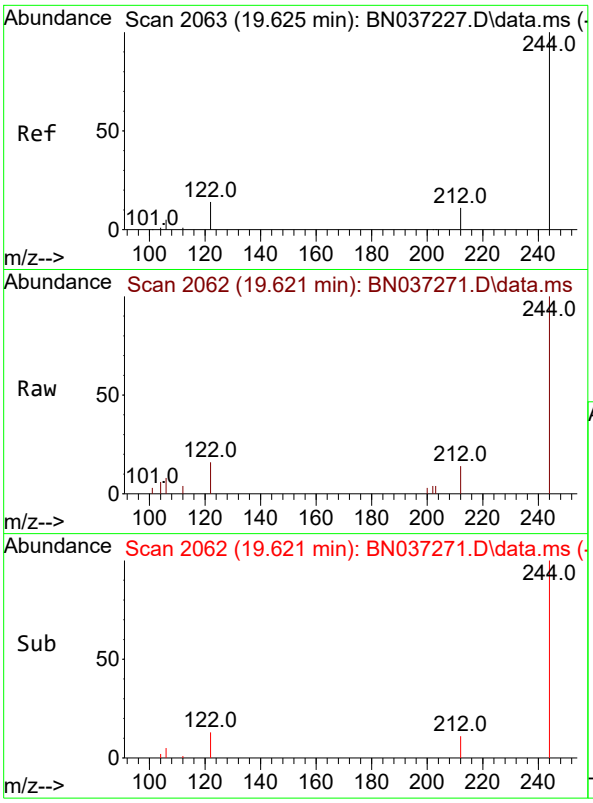


#30
Pyrene
Concen: 0.399 ng
RT: 19.407 min Scan# 2016
Delta R.T. -0.004 min
Lab File: BN037271.D
Acq: 14 Jun 2025 20:36

Tgt Ion:202 Resp: 5049

Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.2	25.8
203	18.2	14.3	21.5



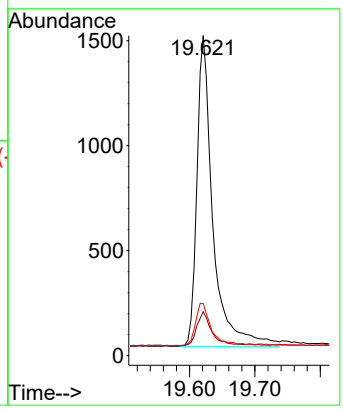


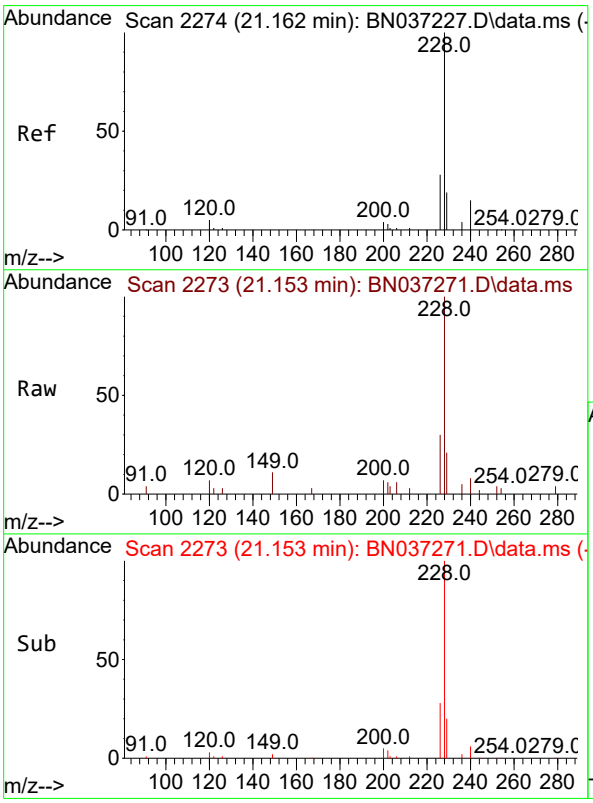
#31
Terphenyl-d14
Concen: 0.411 ng
RT: 19.621 min Scan# 2
Delta R.T. -0.004 min
Lab File: BN037271.D
Acq: 14 Jun 2025 20:36

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:244 Resp: 2504

Ion	Ratio	Lower	Upper
244	100		
212	13.7	12.2	18.2
122	16.3	14.3	21.5

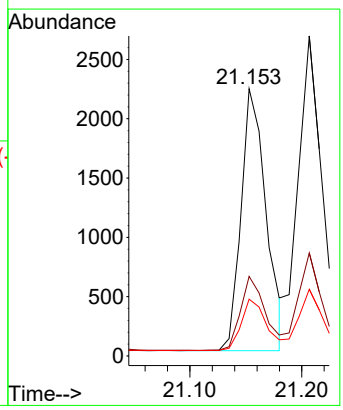


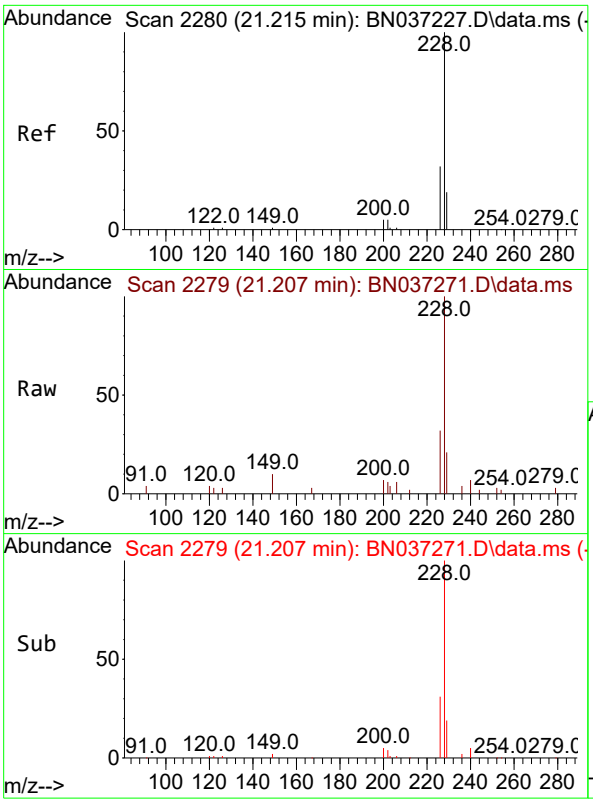


#32
Benzo(a)anthracene
Concen: 0.378 ng
RT: 21.153 min Scan# 2273
Delta R.T. -0.009 min
Lab File: BN037271.D
Acq: 14 Jun 2025 20:36

Tgt Ion:228 Resp: 3437

Ion	Ratio	Lower	Upper
228	100		
226	29.8	23.8	35.8
229	21.3	17.0	25.4



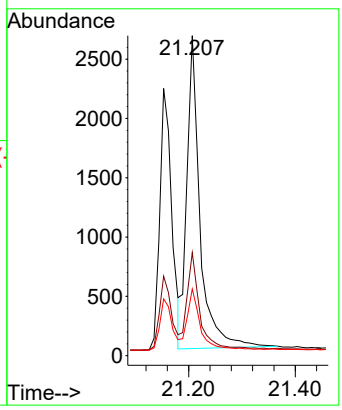


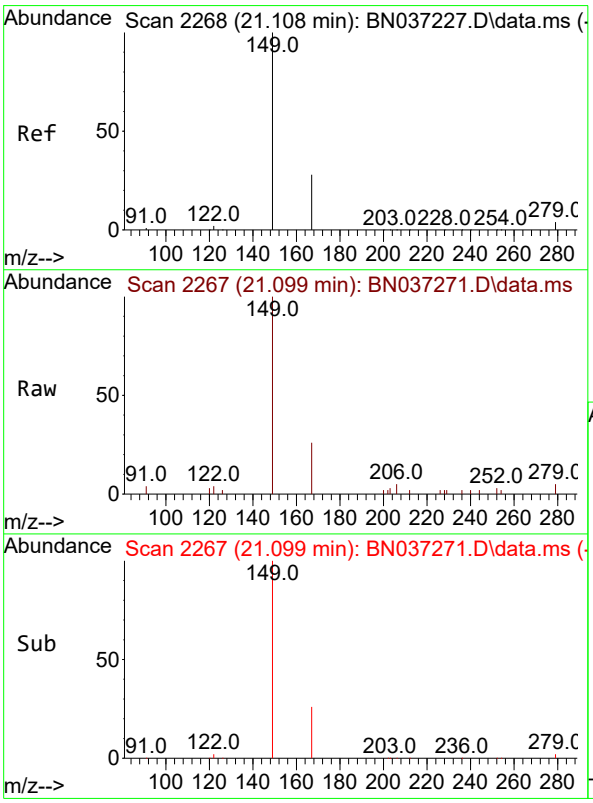
#33
Chrysene
Concen: 0.398 ng
RT: 21.207 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037271.D
Acq: 14 Jun 2025 20:36

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:228 Resp: 4510

Ion	Ratio	Lower	Upper
228	100		
226	32.2	25.8	38.6
229	20.8	17.0	25.4

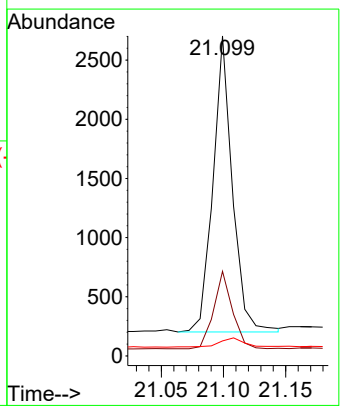


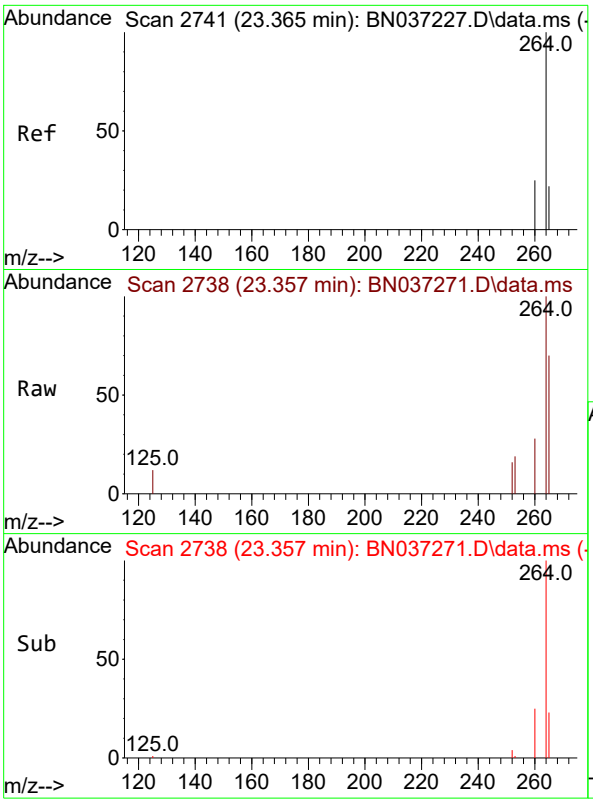


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.400 ng
RT: 21.099 min Scan# 2267
Delta R.T. -0.009 min
Lab File: BN037271.D
Acq: 14 Jun 2025 20:36

Tgt Ion:149 Resp: 2710

Ion	Ratio	Lower	Upper
149	100		
167	25.2	21.3	31.9
279	4.0	3.3	4.9



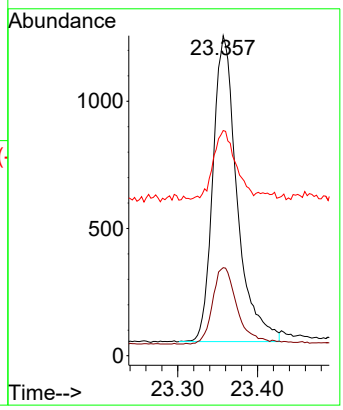


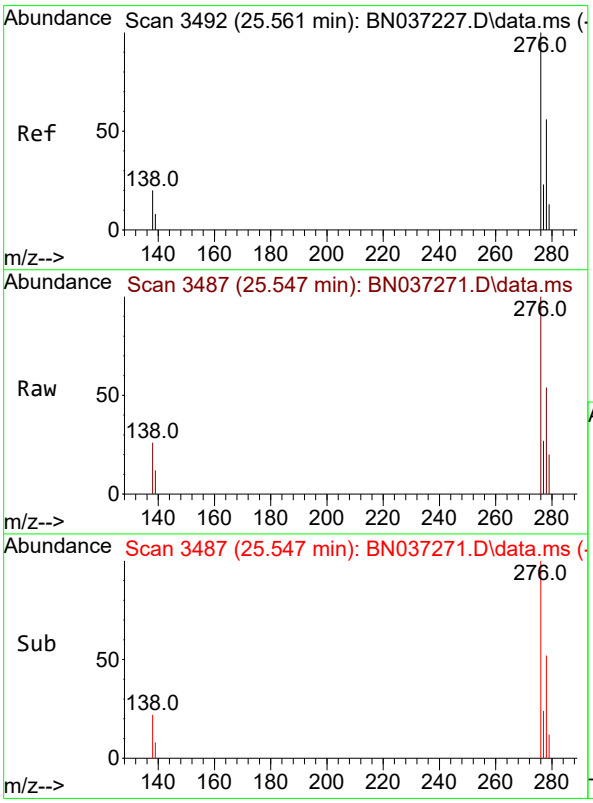
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.357 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037271.D
Acq: 14 Jun 2025 20:36

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:264 Resp: 2531

Ion	Ratio	Lower	Upper
264	100		
260	27.5	22.8	34.2
265	70.3	66.4	99.6

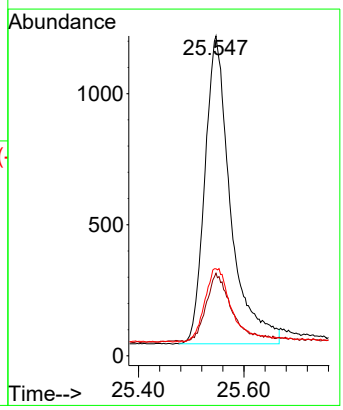


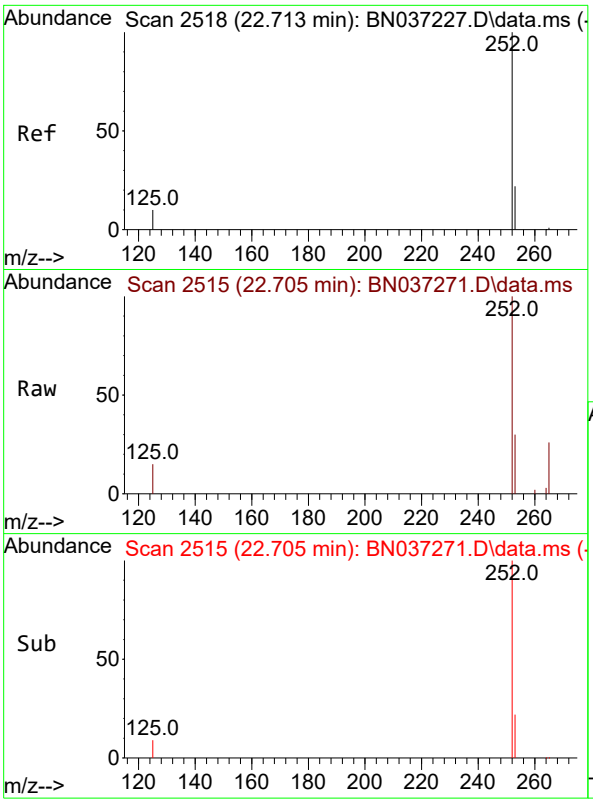


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.389 ng
RT: 25.547 min Scan# 3487
Delta R.T. -0.014 min
Lab File: BN037271.D
Acq: 14 Jun 2025 20:36

Tgt Ion:276 Resp: 3975

Ion	Ratio	Lower	Upper
276	100		
138	20.7	16.8	25.2
277	24.9	19.5	29.3



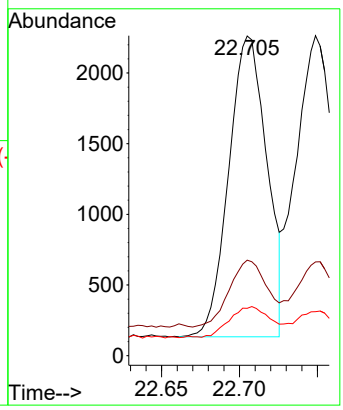


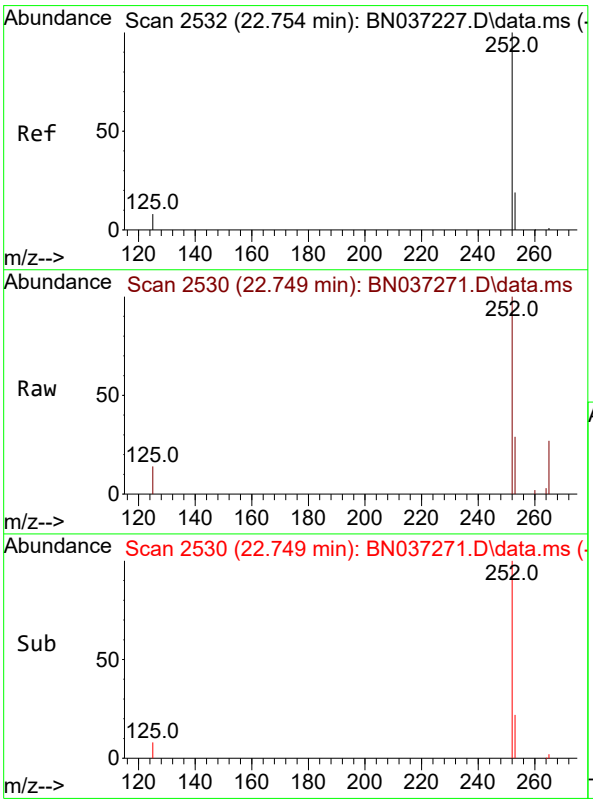
#37
Benzo(b)fluoranthene
Concen: 0.391 ng
RT: 22.705 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037271.D
Acq: 14 Jun 2025 20:36

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:252 Resp: 3621

Ion	Ratio	Lower	Upper
252	100		
253	29.9	24.9	37.3
125	14.8	12.9	19.3

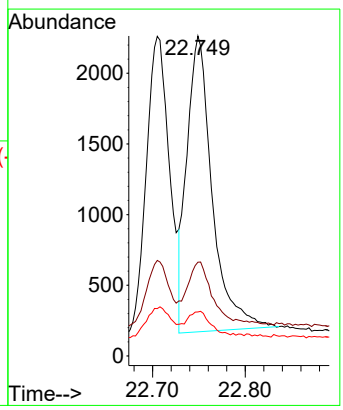


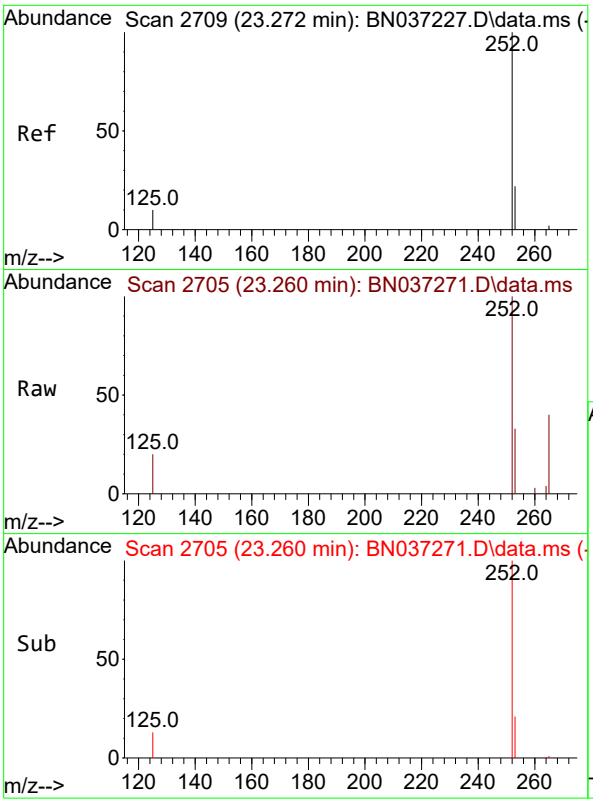


#38
Benzo(k)fluoranthene
Concen: 0.371 ng
RT: 22.749 min Scan# 2530
Delta R.T. -0.006 min
Lab File: BN037271.D
Acq: 14 Jun 2025 20:36

Tgt Ion:252 Resp: 3967

Ion	Ratio	Lower	Upper
252	100		
253	29.3	24.6	37.0
125	13.7	13.4	20.2



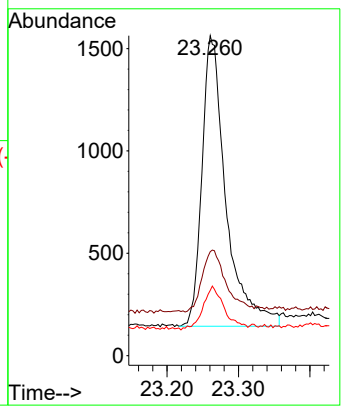


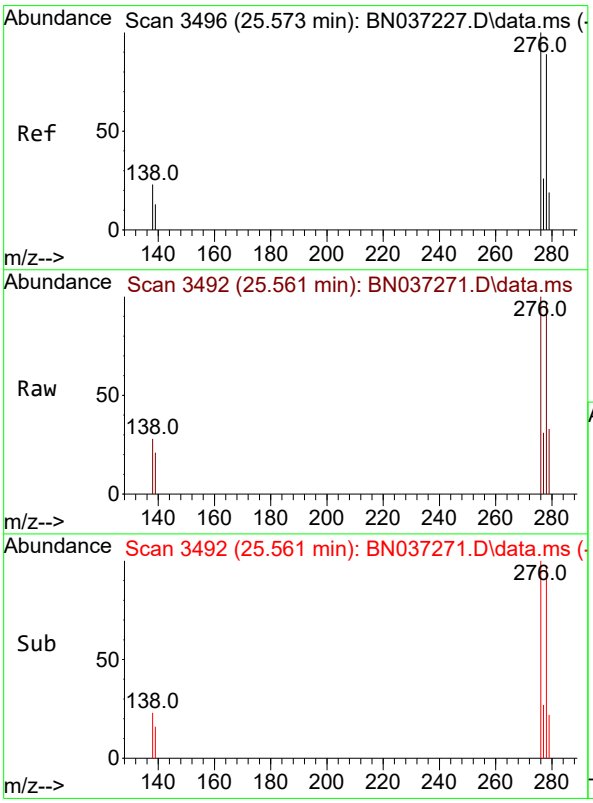
#39
Benzo(a)pyrene
Concen: 0.398 ng
RT: 23.260 min Scan# 2
Delta R.T. -0.011 min
Lab File: BN037271.D
Acq: 14 Jun 2025 20:36

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:252 Resp: 3312

Ion	Ratio	Lower	Upper
252	100		
253	32.5	29.4	44.2
125	20.4	16.2	24.2

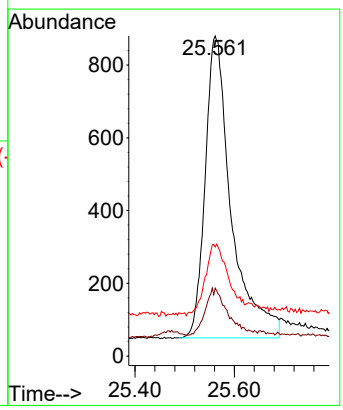


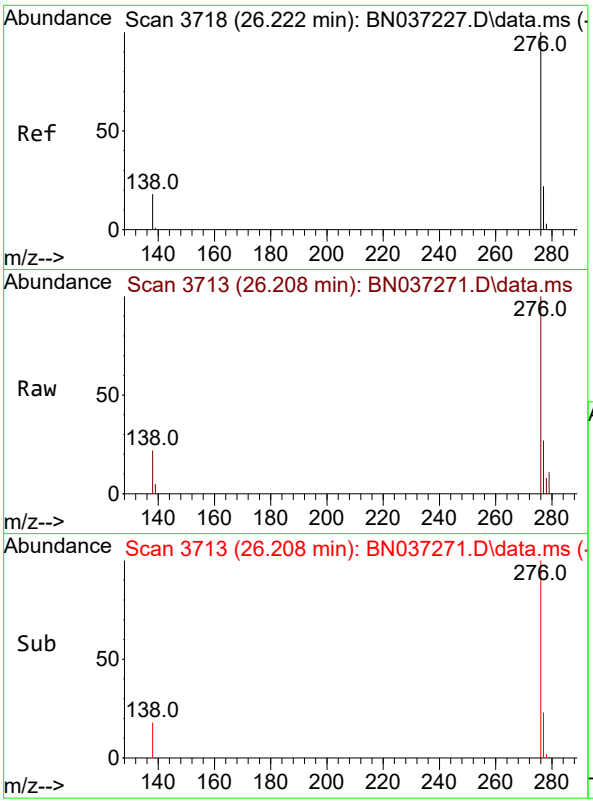


#40
Dibenzo(a,h)anthracene
Concen: 0.390 ng
RT: 25.561 min Scan# 3492
Delta R.T. -0.011 min
Lab File: BN037271.D
Acq: 14 Jun 2025 20:36

Tgt Ion:278 Resp: 3030

Ion	Ratio	Lower	Upper
278	100		
139	21.3	17.8	26.6
279	34.1	31.3	46.9



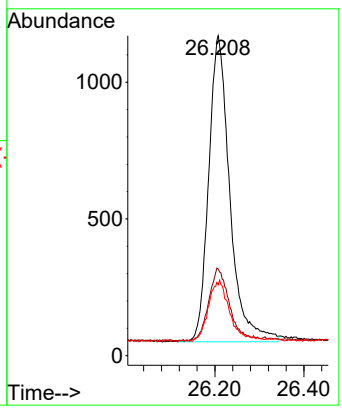


#41
Benzo(g,h,i)perylene
Concen: 0.390 ng
RT: 26.208 min Scan# 3
Delta R.T. -0.014 min
Lab File: BN037271.D
Acq: 14 Jun 2025 20:36

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:276 Resp: 3692

Ion	Ratio	Lower	Upper
276	100		
277	27.1	22.0	33.0
138	22.1	18.4	27.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037271.D
Acq On : 14 Jun 2025 20:36
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 50 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Jun 16 02:45:14 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 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	116	0.00
2		1,4-Dioxane	0.549	0.489	10.9	108	0.00
3		n-Nitrosodimethylamine	1.250	1.252	-0.2	114	0.00
4	S	2-Fluorophenol	0.982	0.935	4.8	116	0.00
5	S	Phenol-d6	1.035	1.035	0.0	125	0.00
6		bis(2-Chloroethyl)ether	0.927	1.021	-10.1	137	0.00
7	I	Naphthalene-d8	1.000	1.000	0.0	115	-0.01
8	S	Nitrobenzene-d5	0.395	0.414	-4.8	124	0.00
9		Naphthalene	1.158	1.158	0.0	118	0.00
10		Hexachlorobutadiene	0.282	0.295	-4.6	113	0.00
11	SURR	2-Methylnaphthalene-d10	0.537	0.576	-7.3	119	0.00
12		2-Methylnaphthalene	0.704	0.702	0.3	115	0.00
13	I	Acenaphthene-d10	1.000	1.000	0.0	114	0.00
14	S	2,4,6-Tribromophenol	0.166	0.164	1.2	109	-0.01
15	S	2-Fluorobiphenyl	1.681	1.725	-2.6	116	0.00
16		Acenaphthylene	1.960	1.855	5.4	113	-0.01
17		Acenaphthene	1.265	1.207	4.6	111	0.00
18		Fluorene	1.625	1.547	4.8	111	0.00
19	I	Phenanthrene-d10	1.000	1.000	0.0	112	0.00
20		4,6-Dinitro-2-methylphenol	0.092	0.076	17.4	128	-0.01
21		4-Bromophenyl-phenylether	0.261	0.256	1.9	118	0.00
22		Hexachlorobenzene	0.302	0.295	2.3	107	0.00
23		Atrazine	0.232	0.227	2.2	115	-0.01
24		Pentachlorophenol	0.148	0.140	5.4	127	0.00
25		Phenanthrene	1.269	1.226	3.4	116	-0.01
26		Anthracene	1.161	1.111	4.3	116	0.00
27	SURR	Fluoranthene-d10	1.046	1.069	-2.2	114	0.00
28		Fluoranthene	1.485	1.409	5.1	112	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	118	0.00
30		Pyrene	1.881	1.876	0.3	113	0.00
31	S	Terphenyl-d14	0.904	0.930	-2.9	116	0.00
32		Benzo(a)anthracene	1.351	1.277	5.5	123	0.00
33		Chrysene	1.683	1.675	0.5	117	0.00
34		Bis(2-ethylhexyl)phthalate	1.006	1.007	-0.1	116	0.00
35	I	Perylene-d12	1.000	1.000	0.0	118	0.00
36		Indeno(1,2,3-cd)pyrene	1.613	1.571	2.6	123	-0.01
37		Benzo(b)fluoranthene	1.463	1.431	2.2	122	0.00
38		Benzo(k)fluoranthene	1.689	1.567	7.2	113	0.00
39	C	Benzo(a)pyrene	1.316	1.309	0.5	125	-0.01
40		Dibenzo(a,h)anthracene	1.227	1.197	2.4	134	-0.01
41		Benzo(g,h,i)perylene	1.496	1.459	2.5	119	-0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037271.D
Acq On : 14 Jun 2025 20:36
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 50 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Jun 16 02:45:14 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 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	0.400	0.400	0.0	116	0.00
2		1,4-Dioxane	0.400	0.356	11.0	108	0.00
3		n-Nitrosodimethylamine	0.400	0.401	-0.3	114	0.00
4	S	2-Fluorophenol	0.400	0.381	4.8	116	0.00
5	S	Phenol-d6	0.400	0.400	0.0	125	0.00
6		bis(2-Chloroethyl)ether	0.400	0.441	-10.2	137	0.00
7	I	Naphthalene-d8	0.400	0.400	0.0	115	-0.01
8	S	Nitrobenzene-d5	0.400	0.419	-4.7	124	0.00
9		Naphthalene	0.400	0.400	0.0	118	0.00
10		Hexachlorobutadiene	0.400	0.419	-4.7	113	0.00
11	SURR	2-Methylnaphthalene-d10	0.400	0.429	-7.2	119	0.00
12		2-Methylnaphthalene	0.400	0.399	0.3	115	0.00
13	I	Acenaphthene-d10	0.400	0.400	0.0	114	0.00
14	S	2,4,6-Tribromophenol	0.400	0.395	1.3	109	-0.01
15	S	2-Fluorobiphenyl	0.400	0.410	-2.5	116	0.00
16		Acenaphthylene	0.400	0.379	5.3	113	-0.01
17		Acenaphthene	0.400	0.382	4.5	111	0.00
18		Fluorene	0.400	0.381	4.8	111	0.00
19	I	Phenanthrene-d10	0.400	0.400	0.0	112	0.00
20		4,6-Dinitro-2-methylphenol	0.400	0.404	-1.0	128	-0.01
21		4-Bromophenyl-phenylether	0.400	0.393	1.8	118	0.00
22		Hexachlorobenzene	0.400	0.391	2.3	107	0.00
23		Atrazine	0.400	0.391	2.3	115	-0.01
24		Pentachlorophenol	0.400	0.379	5.3	127	0.00
25		Phenanthrene	0.400	0.386	3.5	116	-0.01
26		Anthracene	0.400	0.383	4.3	116	0.00
27	SURR	Fluoranthene-d10	0.400	0.408	-2.0	114	0.00
28		Fluoranthene	0.400	0.379	5.3	112	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	118	0.00
30		Pyrene	0.400	0.399	0.3	113	0.00
31	S	Terphenyl-d14	0.400	0.411	-2.7	116	0.00
32		Benzo(a)anthracene	0.400	0.378	5.5	123	0.00
33		Chrysene	0.400	0.398	0.5	117	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.400	0.0	116	0.00
35	I	Perylene-d12	0.400	0.400	0.0	118	0.00
36		Indeno(1,2,3-cd)pyrene	0.400	0.389	2.8	123	-0.01
37		Benzo(b)fluoranthene	0.400	0.391	2.3	122	0.00
38		Benzo(k)fluoranthene	0.400	0.371	7.3	113	0.00
39	C	Benzo(a)pyrene	0.400	0.398	0.5	125	-0.01
40		Dibenzo(a,h)anthracene	0.400	0.390	2.5	134	-0.01
41		Benzo(g,h,i)perylene	0.400	0.390	2.5	119	-0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q2299 SAS No.: Q2299 SDG No.: Q2299

Instrument ID: BNA_N Calibration Date/Time: 06/16/2025 10:23

Lab File ID: BN037284.D Init. Calib. Date(s): 06/13/2025 06/13/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 13:33 17:11

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.537	0.560		4.3	20.0
Fluoranthene-d10	1.047	1.053		0.7	20.0
2-Fluorophenol	0.982	0.918		-6.5	20.0
Phenol-d6	1.035	1.022		-1.3	20.0
Nitrobenzene-d5	0.395	0.424		7.3	20.0
2-Fluorobiphenyl	1.681	1.751		4.2	20.0
2,4,6-Tribromophenol	0.166	0.178		7.2	20.0
Terphenyl-d14	0.904	0.946		4.6	20.0
1,4-Dioxane	0.549	0.530		-3.5	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061625\
Data File : BN037284.D
Acq On : 16 Jun 2025 10:23
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Jun 16 11:17:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration

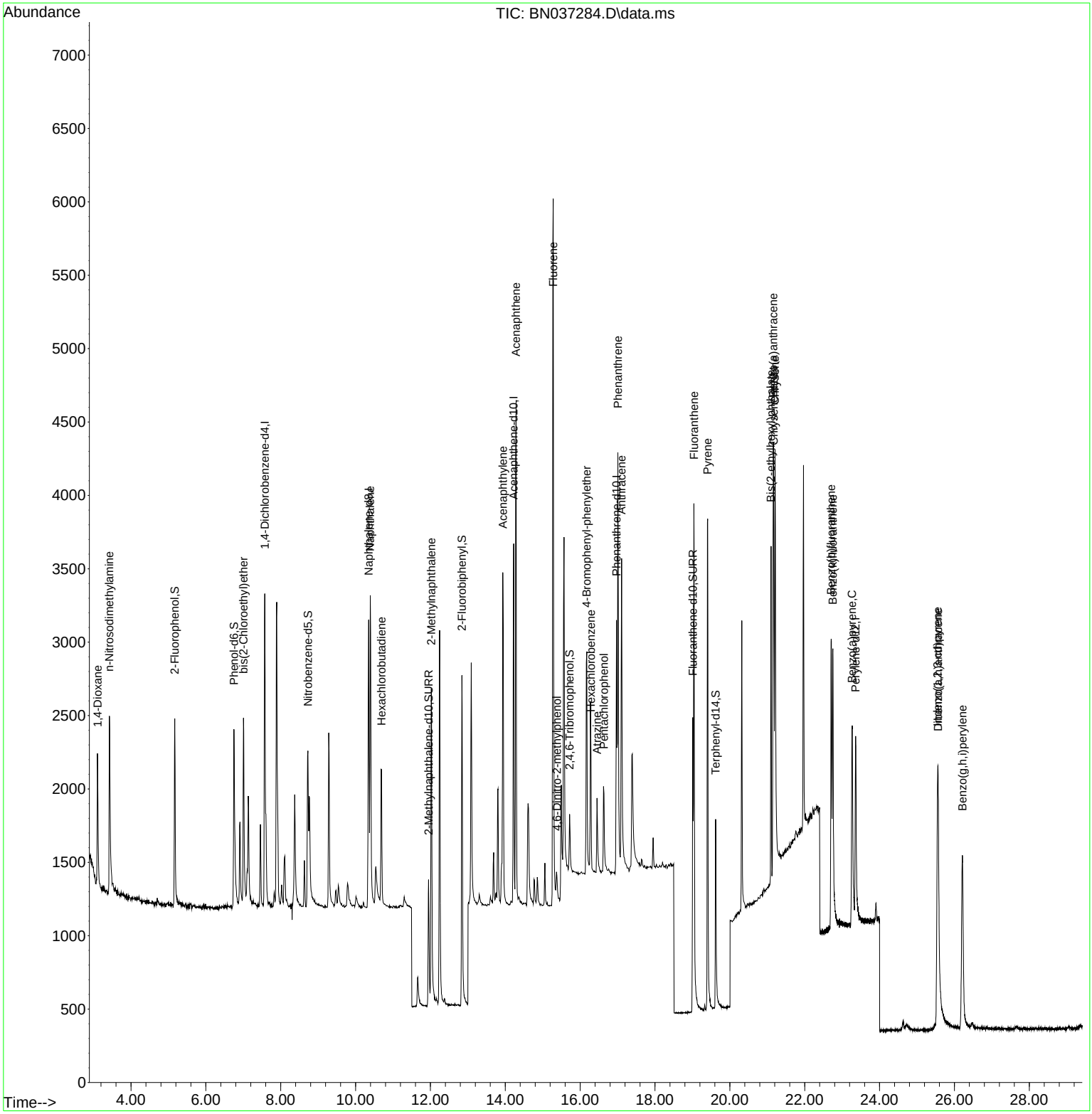
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.575	152	1056	0.400	ng		0.00
7) Naphthalene-d8	10.351	136	2600	0.400	ng		#-0.01
13) Acenaphthene-d10	14.224	164	1364	0.400	ng		0.00
19) Phenanthrene-d10	16.971	188	2522	0.400	ng		# 0.00
29) Chrysene-d12	21.171	240	1830	0.400	ng		# 0.00
35) Perylene-d12	23.360	264	1806	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.170	112	969	0.374	ng		0.00
5) Phenol-d6	6.752	99	1079	0.395	ng		0.00
8) Nitrobenzene-d5	8.728	82	1102	0.429	ng		0.00
11) 2-Methylnaphthalene-d10	11.950	152	1456	0.417	ng		0.00
14) 2,4,6-Tribromophenol	15.718	330	243	0.429	ng		-0.01
15) 2-Fluorobiphenyl	12.843	172	2388	0.417	ng		0.00
27) Fluoranthene-d10	19.012	212	2655	0.402	ng		0.00
31) Terphenyl-d14	19.621	244	1731	0.418	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.112	88	560	0.387	ng		90
3) n-Nitrosodimethylamine	3.422	42	1389	0.421	ng	#	93
6) bis(2-Chloroethyl)ether	7.005	93	1037	0.424	ng		92
9) Naphthalene	10.394	128	2984	0.396	ng		99
10) Hexachlorobutadiene	10.693	225	747	0.408	ng	#	94
12) 2-Methylnaphthalene	12.026	142	1824	0.398	ng		99
16) Acenaphthylene	13.935	152	2640	0.395	ng		100
17) Acenaphthene	14.288	154	1681	0.390	ng		99
18) Fluorene	15.282	166	2137	0.386	ng		97
20) 4,6-Dinitro-2-methylph...	15.379	198	220	0.449	ng		88
21) 4-Bromophenyl-phenylether	16.177	248	666	0.405	ng	#	84
22) Hexachlorobenzene	16.289	284	769	0.404	ng		97
23) Atrazine	16.450	200	556	0.379	ng		95
24) Pentachlorophenol	16.636	266	387	0.415	ng		95
25) Phenanthrene	17.009	178	3070	0.384	ng		99
26) Anthracene	17.108	178	2780	0.380	ng		99
28) Fluoranthene	19.040	202	3477	0.371	ng		99
30) Pyrene	19.407	202	3532	0.411	ng		100
32) Benzo(a)anthracene	21.162	228	2471	0.400	ng		99
33) Chrysene	21.207	228	3003	0.390	ng		99
34) Bis(2-ethylhexyl)phtha...	21.099	149	2037	0.443	ng		98
36) Indeno(1,2,3-cd)pyrene	25.553	276	2942	0.404	ng		96
37) Benzo(b)fluoranthene	22.708	252	2557	0.387	ng		99
38) Benzo(k)fluoranthene	22.752	252	2890	0.379	ng		98
39) Benzo(a)pyrene	23.263	252	2325	0.391	ng	#	94
40) Dibenzo(a,h)anthracene	25.564	278	2093	0.378	ng		97
41) Benzo(g,h,i)perylene	26.213	276	2630	0.389	ng		98

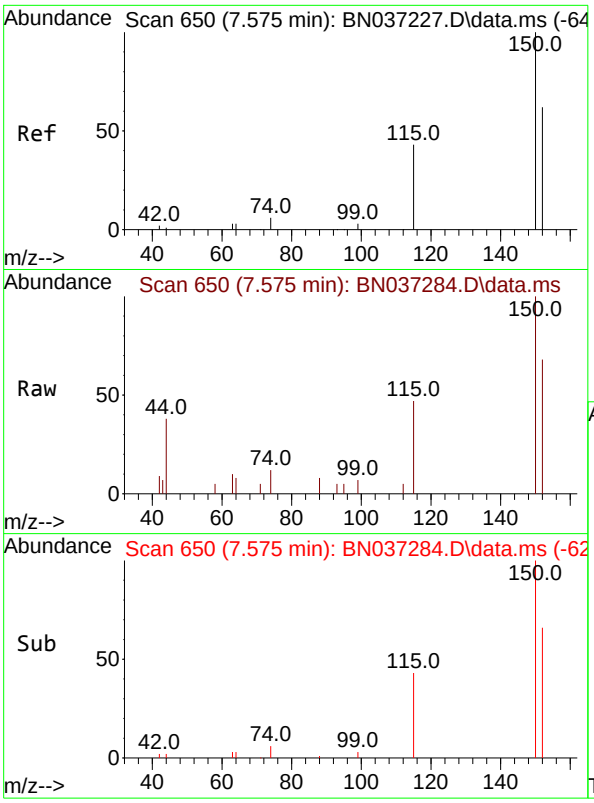
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061625\
Data File : BN037284.D
Acq On : 16 Jun 2025 10:23
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Jun 16 11:17:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration



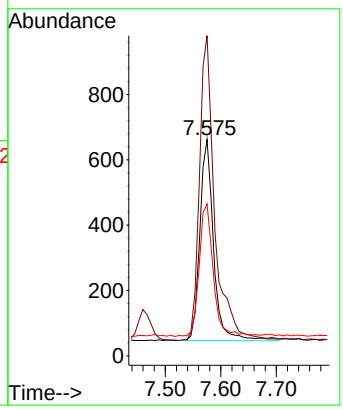


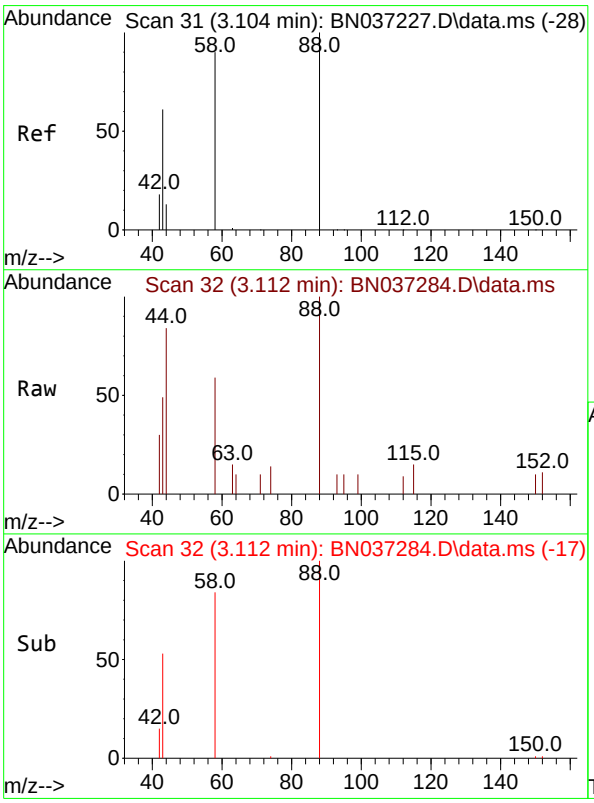
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN037284.D
Acq: 16 Jun 2025 10:23

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 1056

Ion	Ratio	Lower	Upper
152	100		
150	148.0	125.2	187.8
115	70.2	58.4	87.6

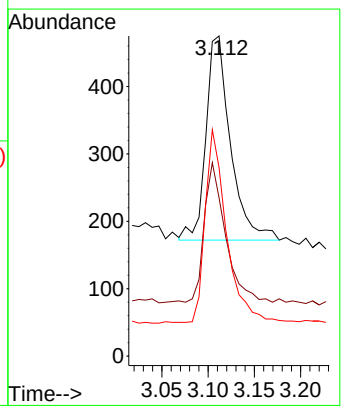


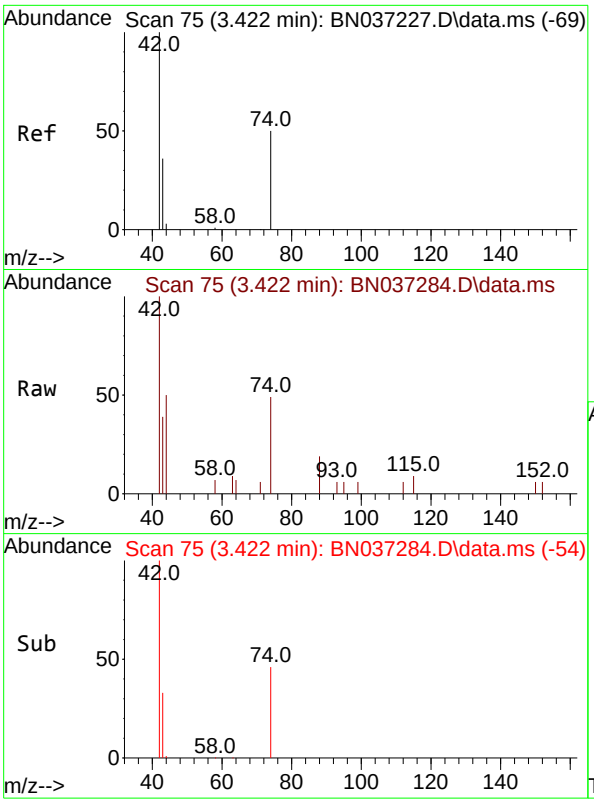


#2
1,4-Dioxane
Concen: 0.387 ng
RT: 3.112 min Scan# 32
Delta R.T. 0.007 min
Lab File: BN037284.D
Acq: 16 Jun 2025 10:23

Tgt Ion: 88 Resp: 560

Ion	Ratio	Lower	Upper
88	100		
43	59.1	52.6	79.0
58	81.6	73.5	110.3



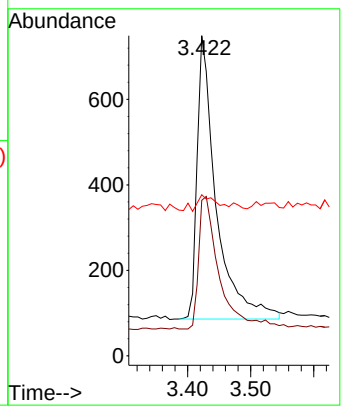


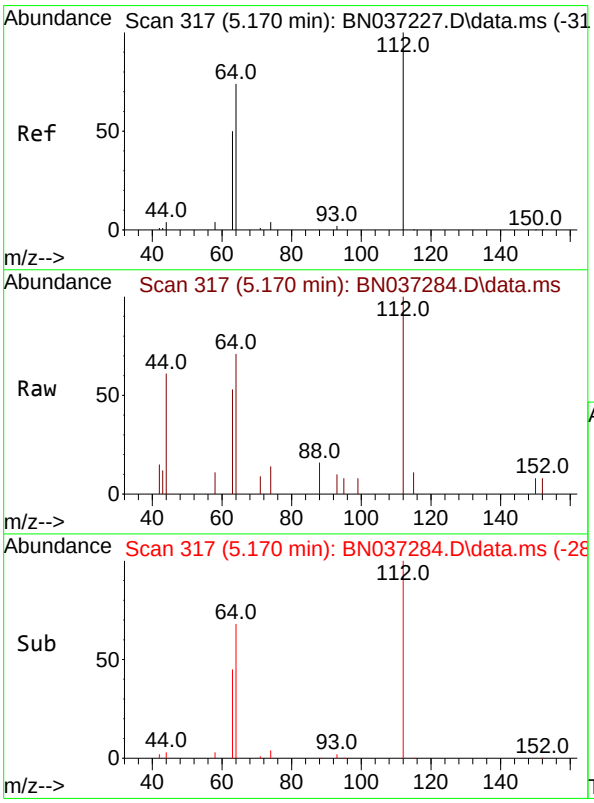
#3
n-Nitrosodimethylamine
Concen: 0.421 ng
RT: 3.422 min Scan# 7
Delta R.T. 0.000 min
Lab File: BN037284.D
Acq: 16 Jun 2025 10:23

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 42 Resp: 1389

Ion	Ratio	Lower	Upper
42	100		
74	50.5	44.6	66.8
44	5.7	3.5	5.3#

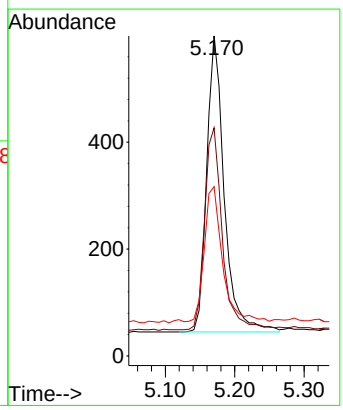


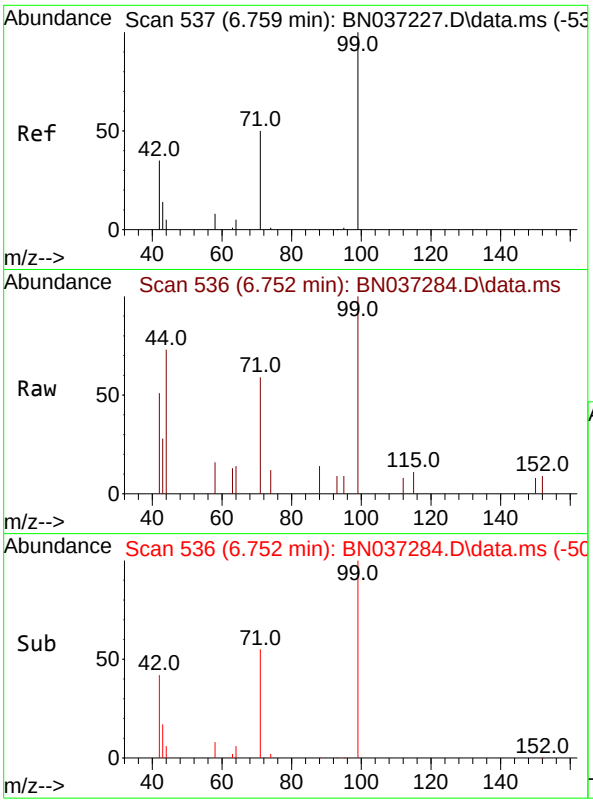


#4
2-Fluorophenol
Concen: 0.374 ng
RT: 5.170 min Scan# 317
Delta R.T. 0.000 min
Lab File: BN037284.D
Acq: 16 Jun 2025 10:23

Tgt Ion:112 Resp: 969

Ion	Ratio	Lower	Upper
112	100		
64	69.3	57.2	85.8
63	47.0	39.8	59.6



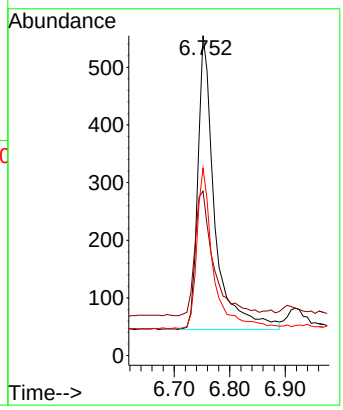


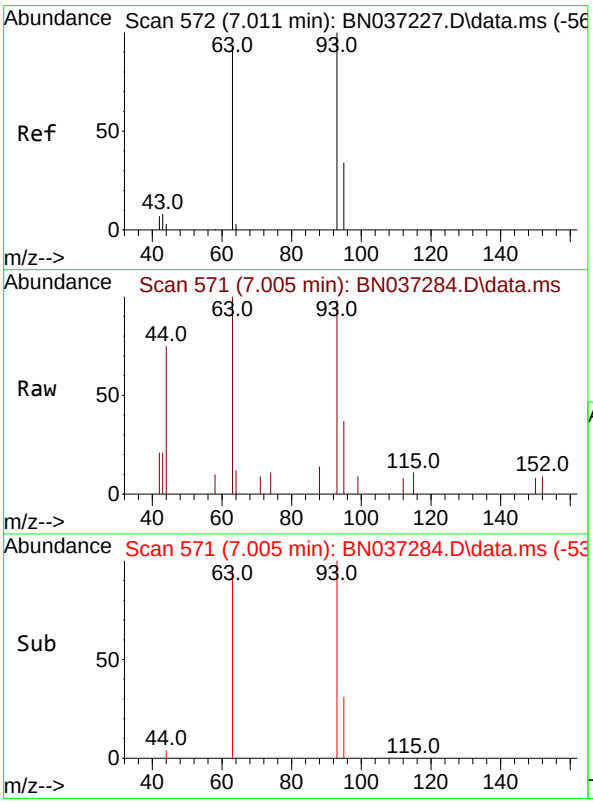
#5
Phenol-d6
Concen: 0.395 ng
RT: 6.752 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN037284.D
Acq: 16 Jun 2025 10:23

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 99 Resp: 1079

Ion	Ratio	Lower	Upper
99	100		
42	46.8	36.2	54.4
71	52.6	42.4	63.6

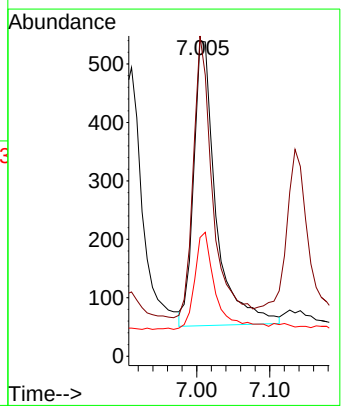


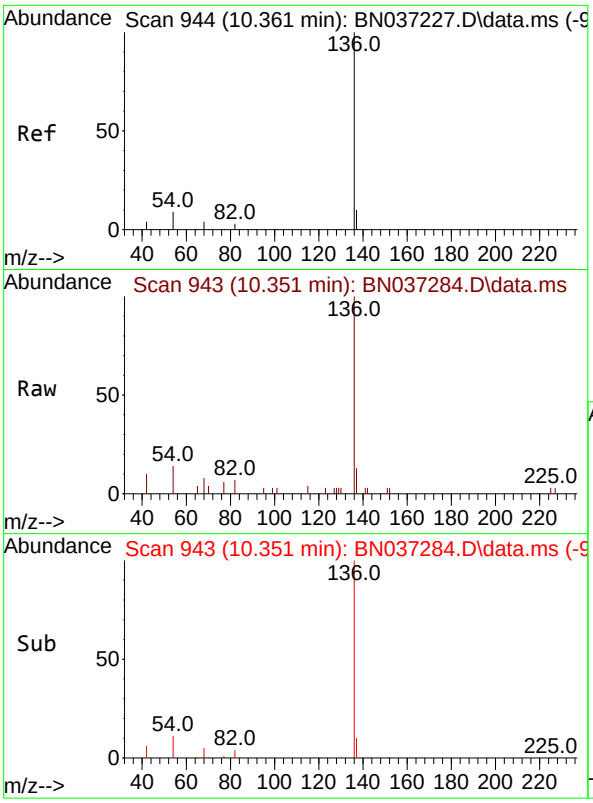


#6
bis(2-Chloroethyl)ether
Concen: 0.424 ng
RT: 7.005 min Scan# 571
Delta R.T. -0.007 min
Lab File: BN037284.D
Acq: 16 Jun 2025 10:23

Tgt Ion: 93 Resp: 1037

Ion	Ratio	Lower	Upper
93	100		
63	85.1	75.2	112.8
95	31.8	28.3	42.5



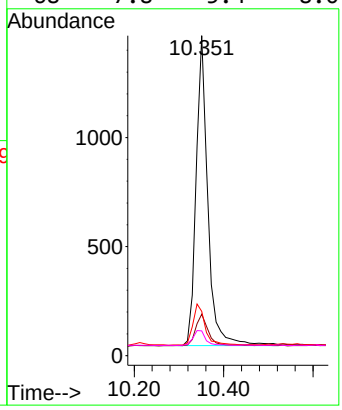


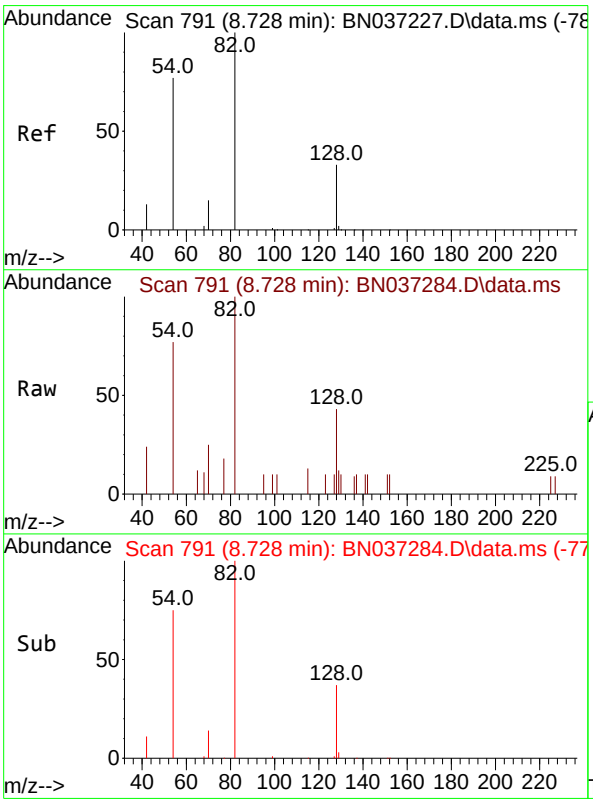
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 94
Delta R.T. -0.010 min
Lab File: BN037284.D
Acq: 16 Jun 2025 10:23

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:136 Resp: 2600

Ion	Ratio	Lower	Upper
136	100		
137	13.0	10.6	15.8
54	13.8	9.2	13.8#
68	7.8	5.4	8.0

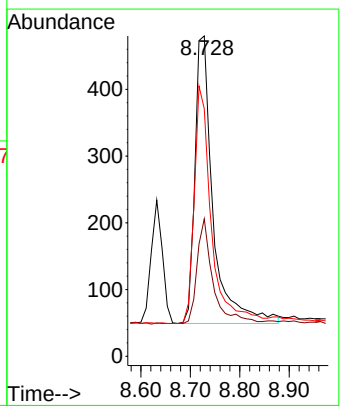


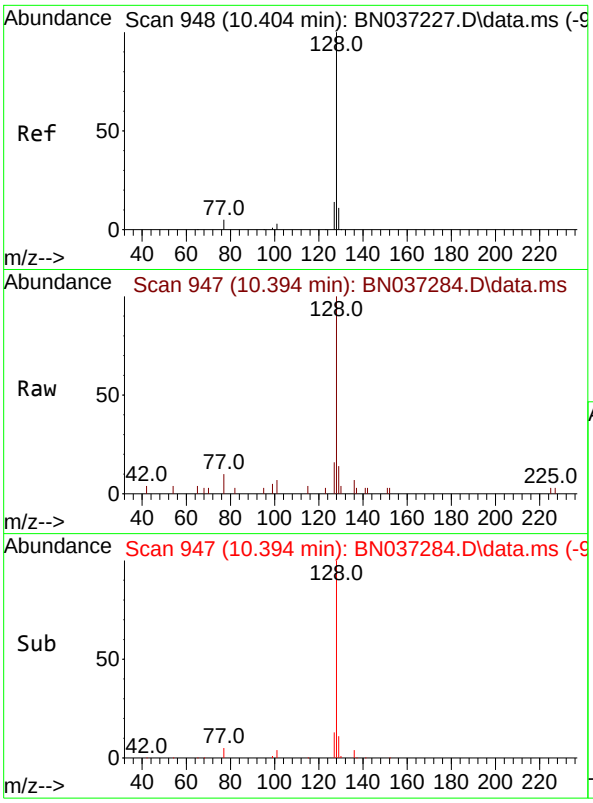


#8
Nitrobenzene-d5
Concen: 0.429 ng
RT: 8.728 min Scan# 791
Delta R.T. 0.000 min
Lab File: BN037284.D
Acq: 16 Jun 2025 10:23

Tgt Ion: 82 Resp: 1102

Ion	Ratio	Lower	Upper
82	100		
128	42.9	31.2	46.8
54	77.3	63.3	94.9



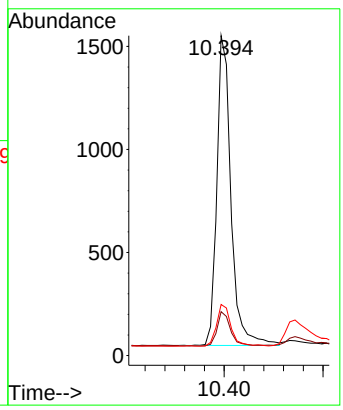


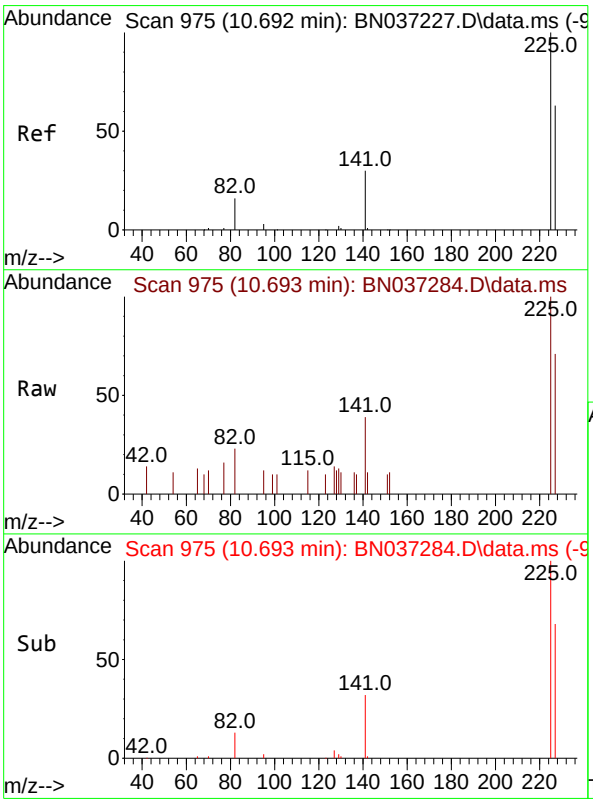
#9
Naphthalene
Concen: 0.396 ng
RT: 10.394 min Scan# 94
Delta R.T. -0.010 min
Lab File: BN037284.D
Acq: 16 Jun 2025 10:23

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:128 Resp: 2984

Ion	Ratio	Lower	Upper
128	100		
129	13.7	10.7	16.1
127	16.0	12.6	19.0

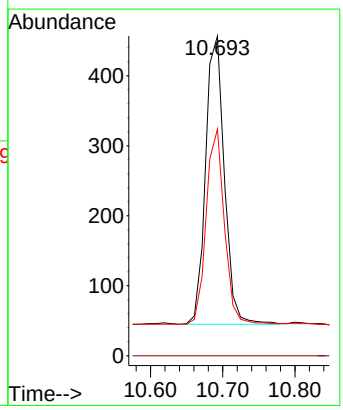


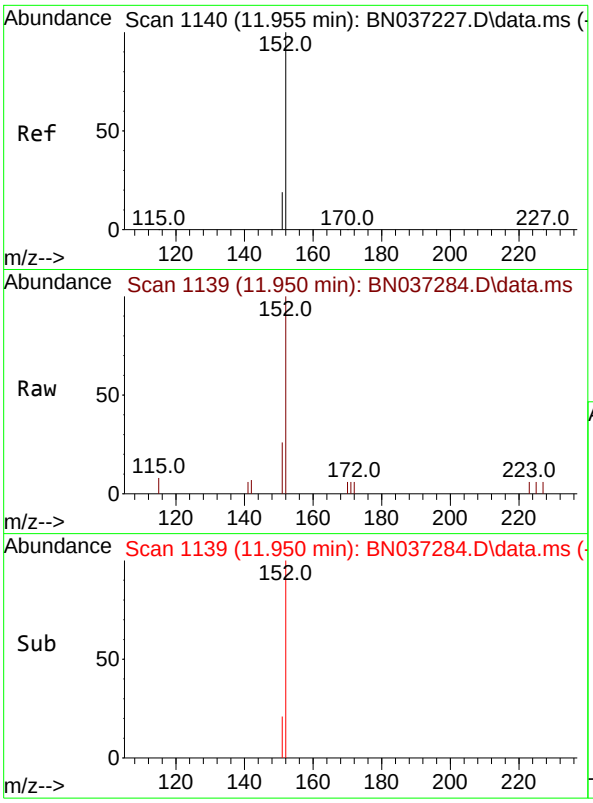


#10
Hexachlorobutadiene
Concen: 0.408 ng
RT: 10.693 min Scan# 975
Delta R.T. 0.000 min
Lab File: BN037284.D
Acq: 16 Jun 2025 10:23

Tgt Ion:225 Resp: 747

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	65.7	49.2	73.8



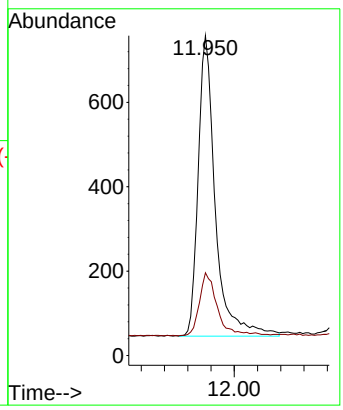


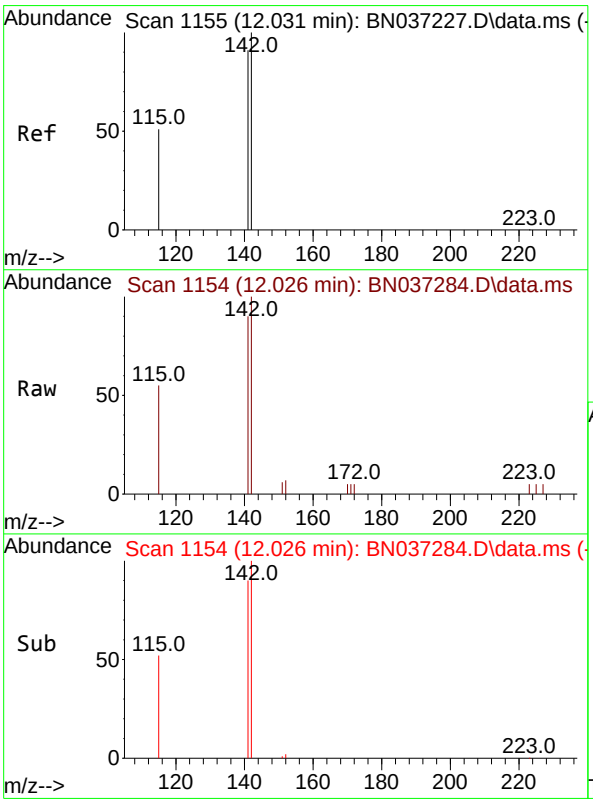
#11
2-Methylnaphthalene-d10
Concen: 0.417 ng
RT: 11.950 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN037284.D
Acq: 16 Jun 2025 10:23

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 1456

Ion	Ratio	Lower	Upper
152	100		
151	22.0	17.9	26.9

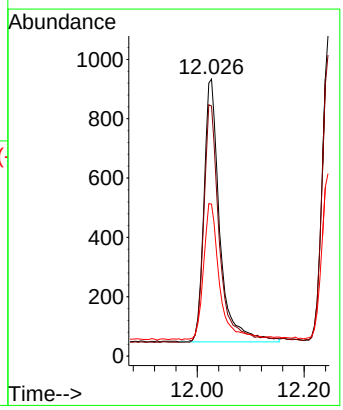


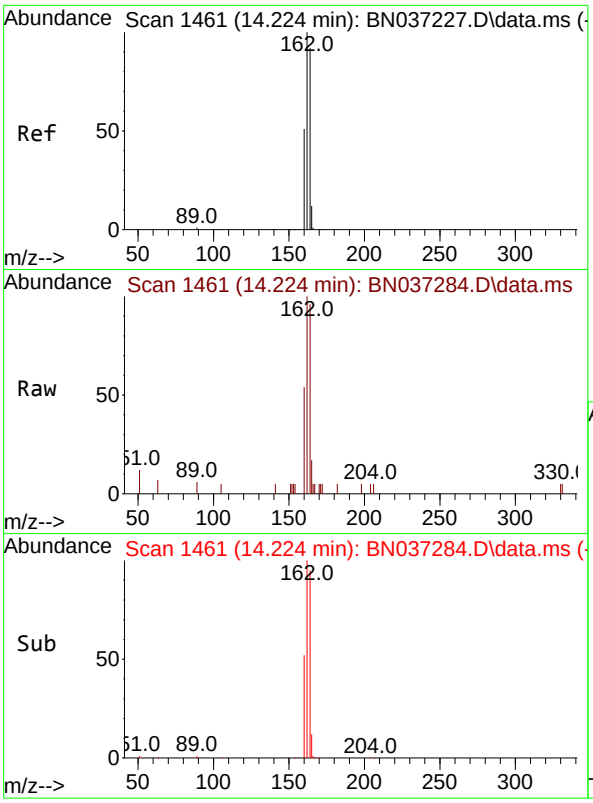


#12
2-Methylnaphthalene
Concen: 0.398 ng
RT: 12.026 min Scan# 1154
Delta R.T. -0.005 min
Lab File: BN037284.D
Acq: 16 Jun 2025 10:23

Tgt Ion:142 Resp: 1824

Ion	Ratio	Lower	Upper
142	100		
141	90.3	73.0	109.6
115	54.8	43.3	64.9



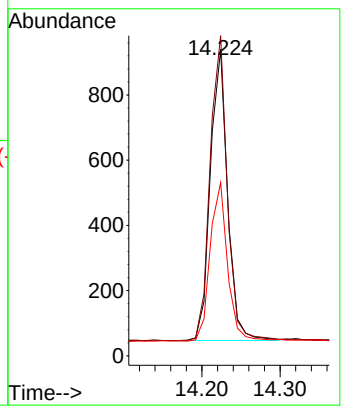


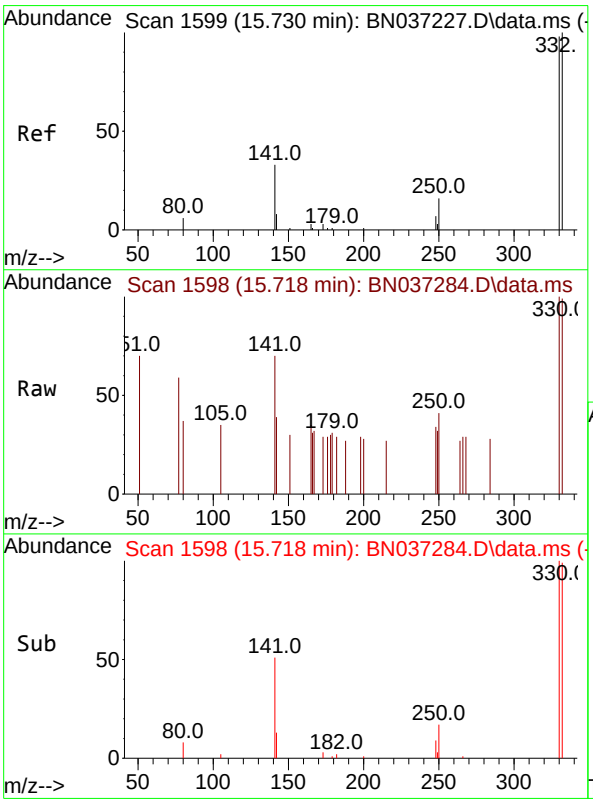
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037284.D
Acq: 16 Jun 2025 10:23

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:164 Resp: 1364

Ion	Ratio	Lower	Upper
164	100		
162	104.5	86.7	130.1
160	56.5	45.8	68.6

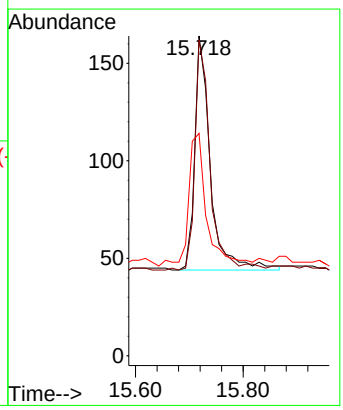


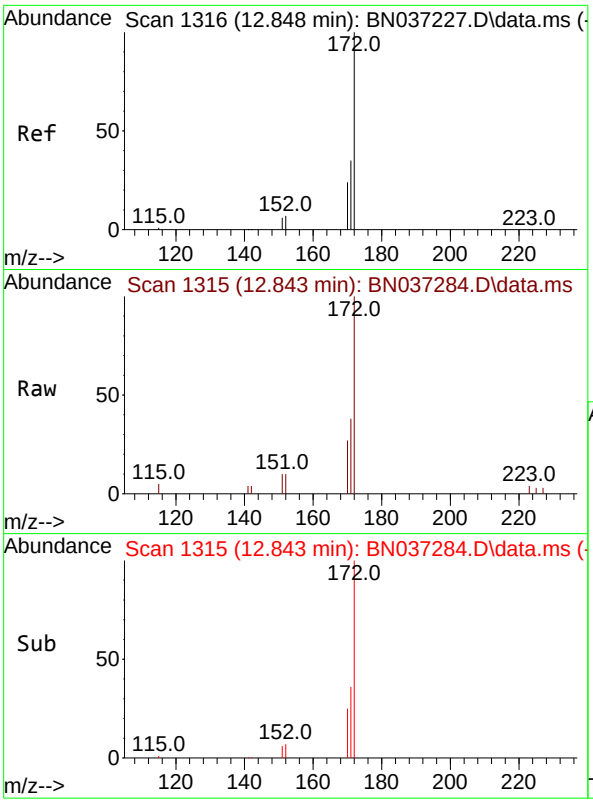


#14
2,4,6-Tribromophenol
Concen: 0.429 ng
RT: 15.718 min Scan# 1598
Delta R.T. -0.012 min
Lab File: BN037284.D
Acq: 16 Jun 2025 10:23

Tgt Ion:330 Resp: 243

Ion	Ratio	Lower	Upper
330	100		
332	95.5	74.9	112.3
141	65.4	45.1	67.7



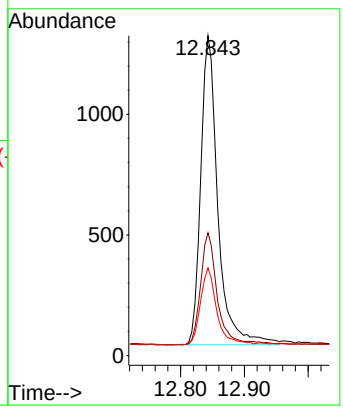


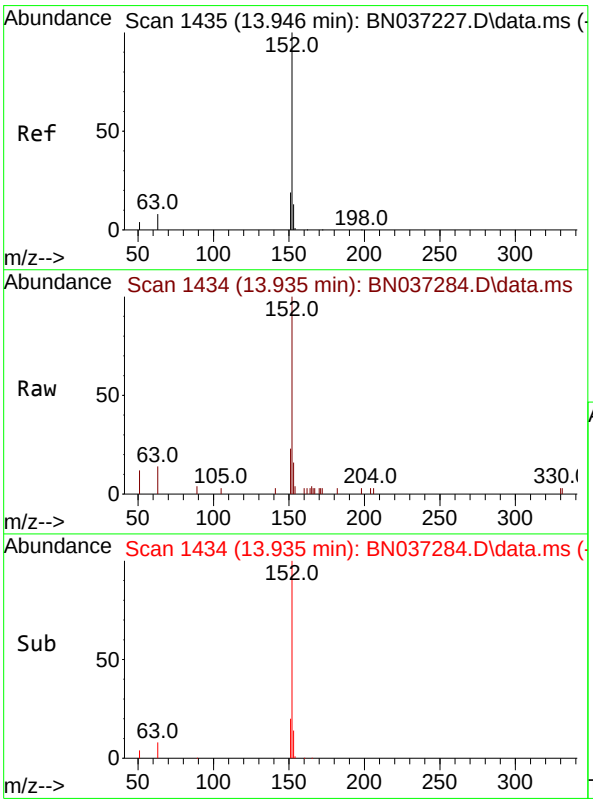
#15
2-Fluorobiphenyl
Concen: 0.417 ng
RT: 12.843 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN037284.D
Acq: 16 Jun 2025 10:23

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:172 Resp: 2388

Ion	Ratio	Lower	Upper
172	100		
171	38.4	29.8	44.8
170	27.4	21.1	31.7

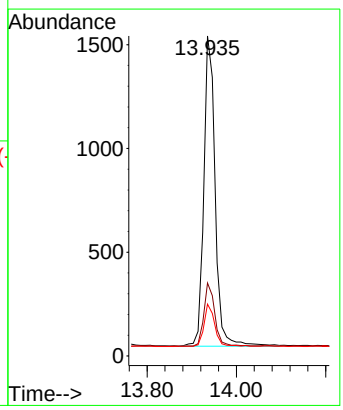


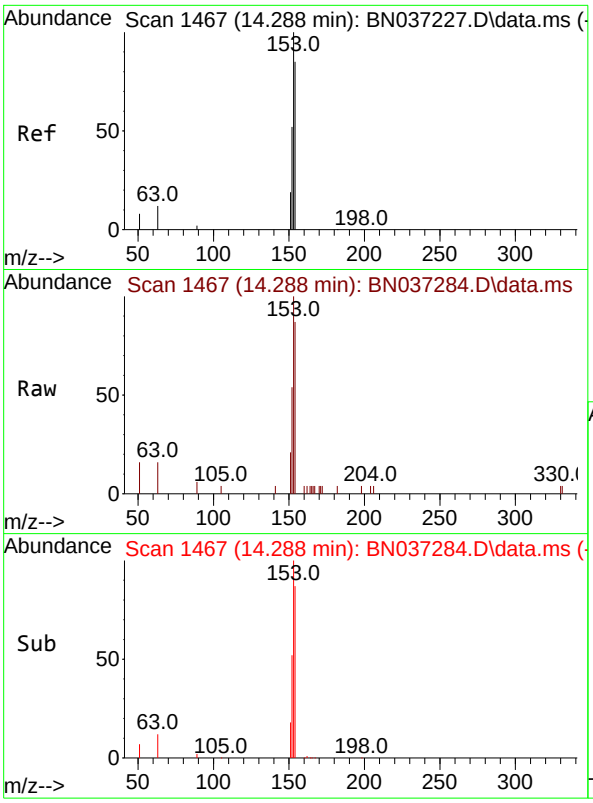


#16
Acenaphthylene
Concen: 0.395 ng
RT: 13.935 min Scan# 1434
Delta R.T. -0.010 min
Lab File: BN037284.D
Acq: 16 Jun 2025 10:23

Tgt Ion:152 Resp: 2640

Ion	Ratio	Lower	Upper
152	100		
151	19.6	15.7	23.5
153	13.0	10.7	16.1



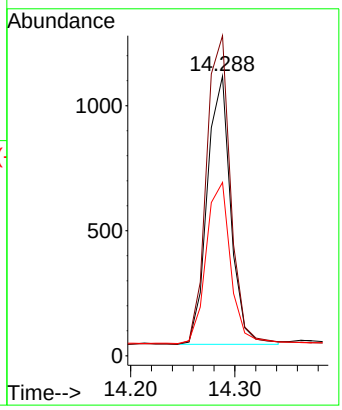


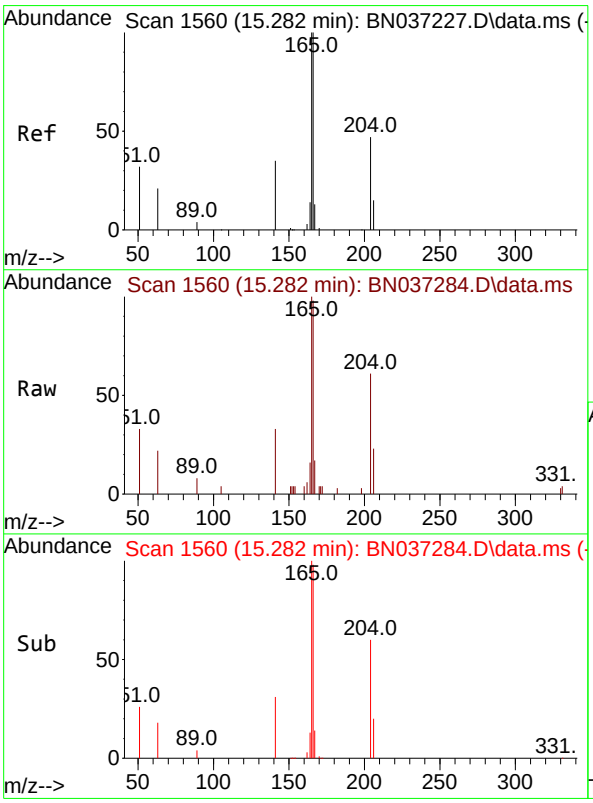
#17
Acenaphthene
Concen: 0.390 ng
RT: 14.288 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037284.D
Acq: 16 Jun 2025 10:23

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:154 Resp: 1681

Ion	Ratio	Lower	Upper
154	100		
153	119.0	94.6	141.8
152	63.5	49.6	74.4

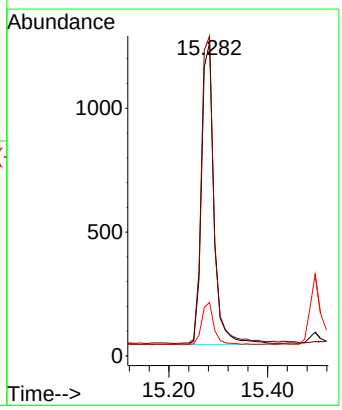


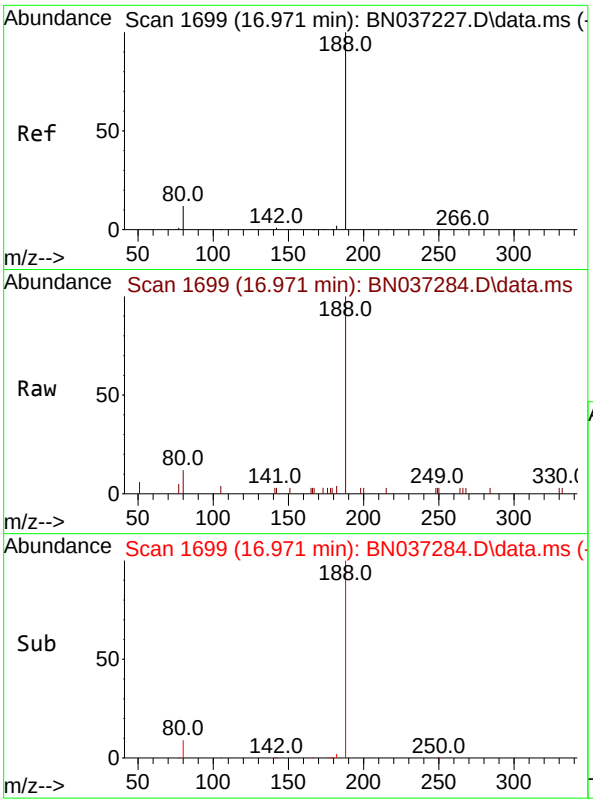


#18
Fluorene
Concen: 0.386 ng
RT: 15.282 min Scan# 1560
Delta R.T. 0.000 min
Lab File: BN037284.D
Acq: 16 Jun 2025 10:23

Tgt Ion:166 Resp: 2137

Ion	Ratio	Lower	Upper
166	100		
165	103.3	79.8	119.6
167	14.0	10.8	16.2



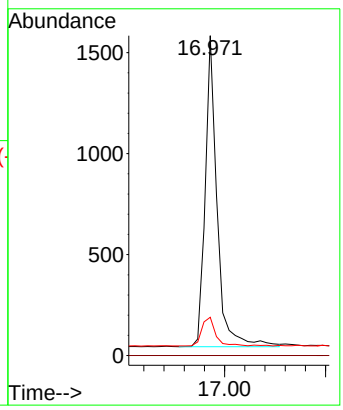


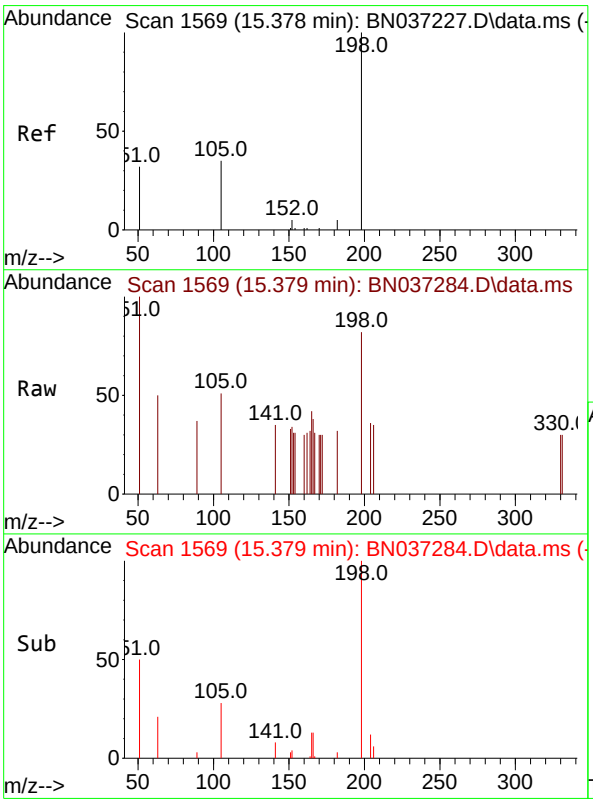
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN037284.D
Acq: 16 Jun 2025 10:23

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:188 Resp: 2522

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.0	12.2	18.4#

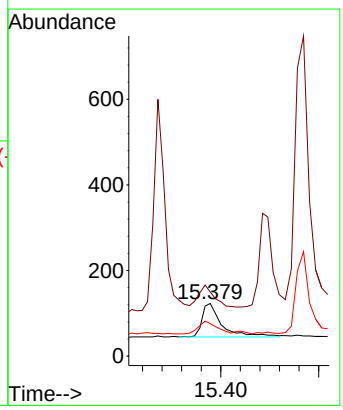


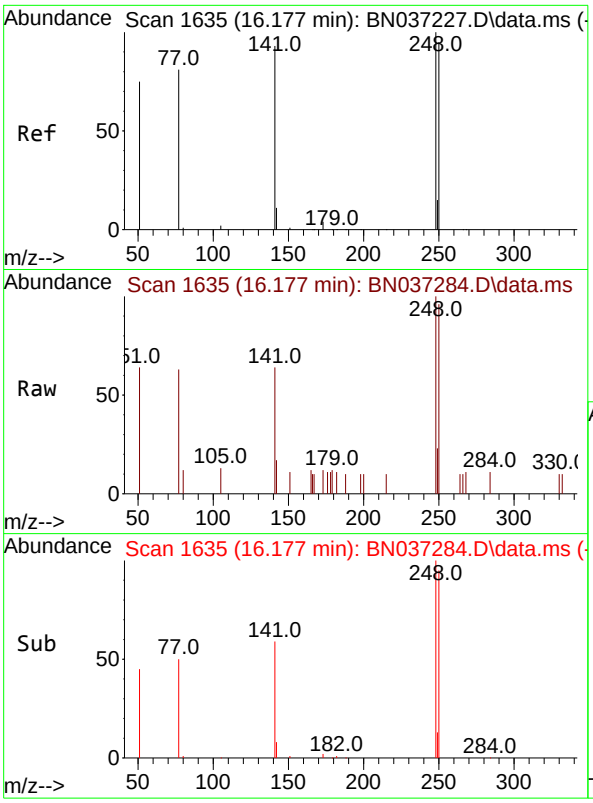


#20
4,6-Dinitro-2-methylphenol
Concen: 0.449 ng
RT: 15.379 min Scan# 1569
Delta R.T. 0.001 min
Lab File: BN037284.D
Acq: 16 Jun 2025 10:23

Tgt Ion:198 Resp: 220

Ion	Ratio	Lower	Upper
198	100		
51	122.0	111.2	166.8
105	61.8	54.0	81.0



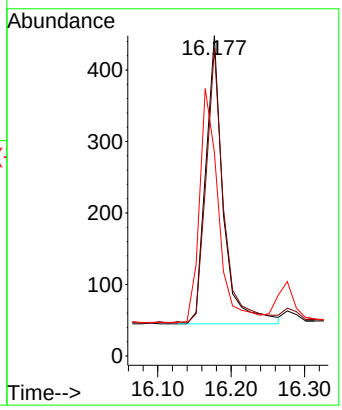


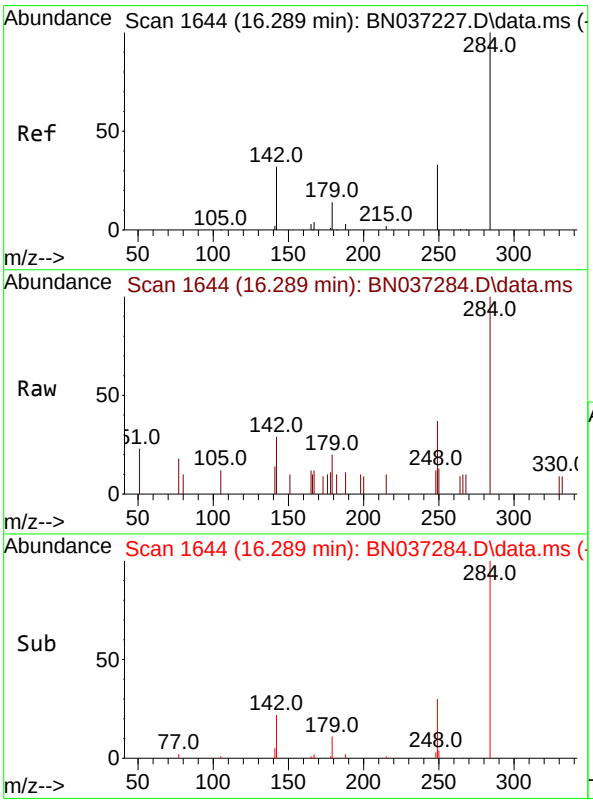
#21
4-Bromophenyl-phenylether
Concen: 0.405 ng
RT: 16.177 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037284.D
Acq: 16 Jun 2025 10:23

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:248 Resp: 666

Ion	Ratio	Lower	Upper
248	100		
250	96.2	76.8	115.2
141	63.6	75.6	113.4#

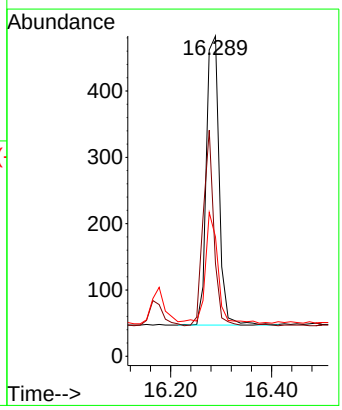


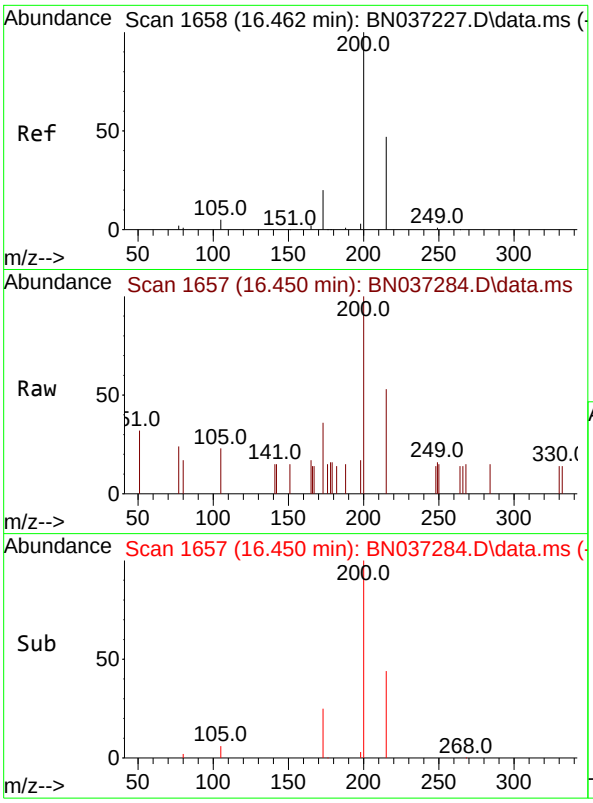


#22
Hexachlorobenzene
Concen: 0.404 ng
RT: 16.289 min Scan# 1644
Delta R.T. 0.000 min
Lab File: BN037284.D
Acq: 16 Jun 2025 10:23

Tgt Ion:284 Resp: 769

Ion	Ratio	Lower	Upper
284	100		
142	57.1	43.8	65.6
249	37.5	28.4	42.6



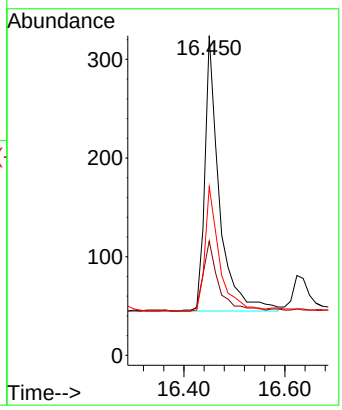


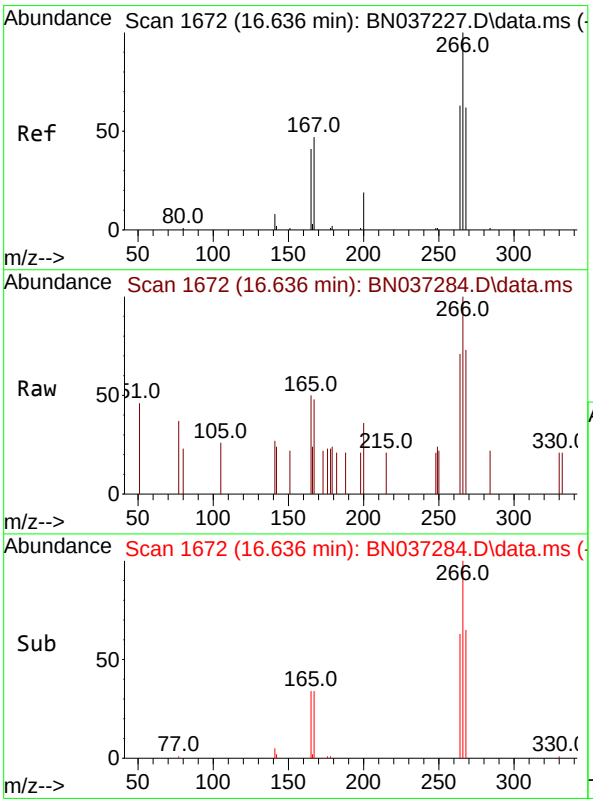
#23
Atrazine
Concen: 0.379 ng
RT: 16.450 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037284.D
Acq: 16 Jun 2025 10:23

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:200 Resp: 556

Ion	Ratio	Lower	Upper
200	100		
173	35.8	25.1	37.7
215	52.8	43.7	65.5

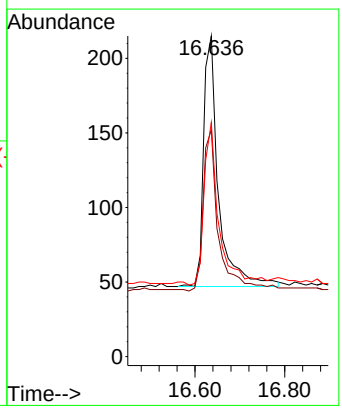


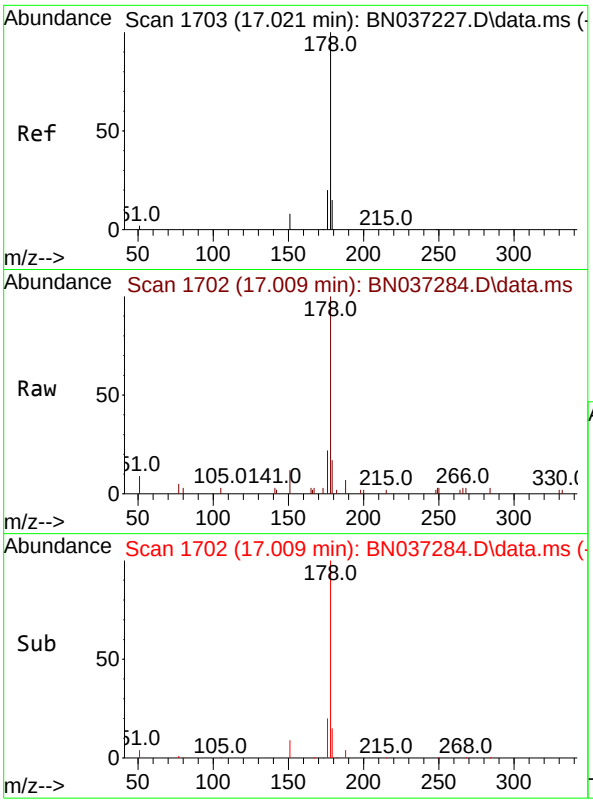


#24
Pentachlorophenol
Concen: 0.415 ng
RT: 16.636 min Scan# 1672
Delta R.T. 0.000 min
Lab File: BN037284.D
Acq: 16 Jun 2025 10:23

Tgt Ion:266 Resp: 387

Ion	Ratio	Lower	Upper
266	100		
264	67.2	49.2	73.8
268	64.9	53.4	80.2



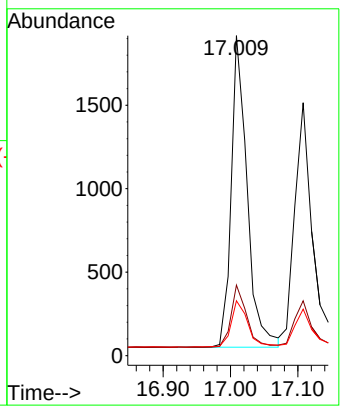


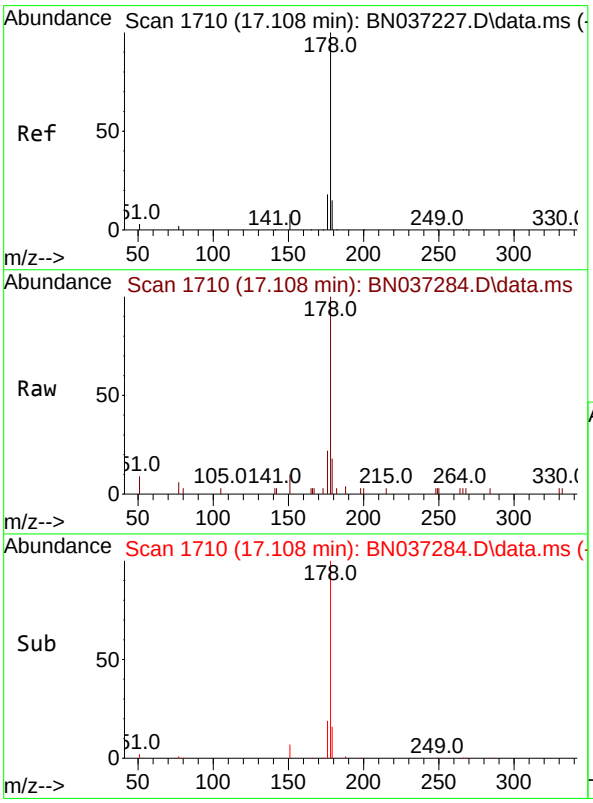
#25
Phenanthrene
Concen: 0.384 ng
RT: 17.009 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037284.D
Acq: 16 Jun 2025 10:23

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:178 Resp: 3070

Ion	Ratio	Lower	Upper
178	100		
176	19.6	16.3	24.5
179	15.9	12.6	18.8

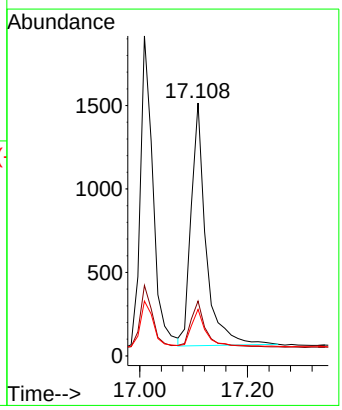


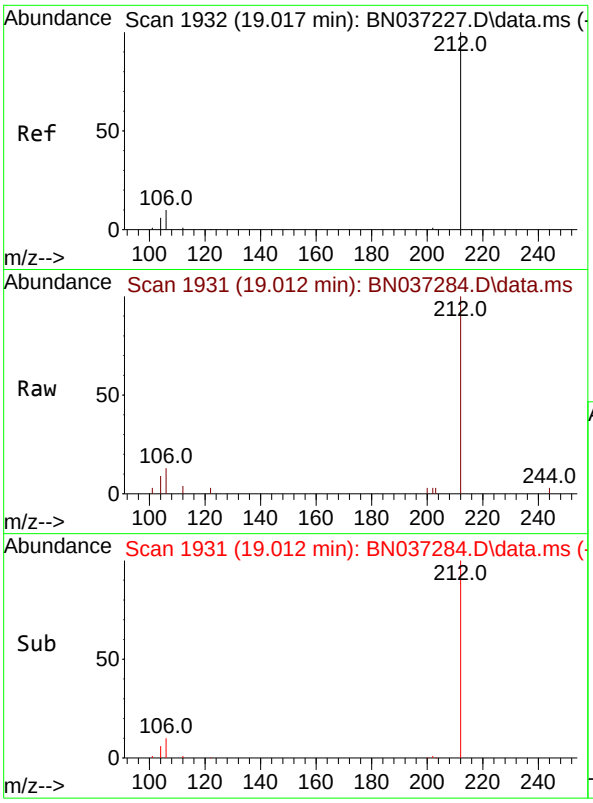


#26
Anthracene
Concen: 0.380 ng
RT: 17.108 min Scan# 1710
Delta R.T. 0.000 min
Lab File: BN037284.D
Acq: 16 Jun 2025 10:23

Tgt Ion:178 Resp: 2780

Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.1	22.7
179	15.6	12.4	18.6



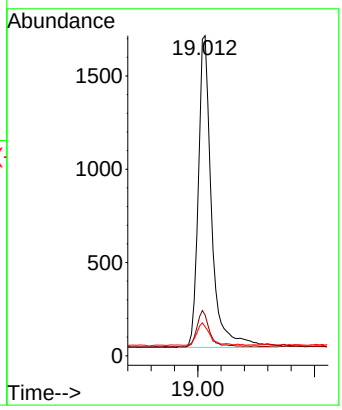


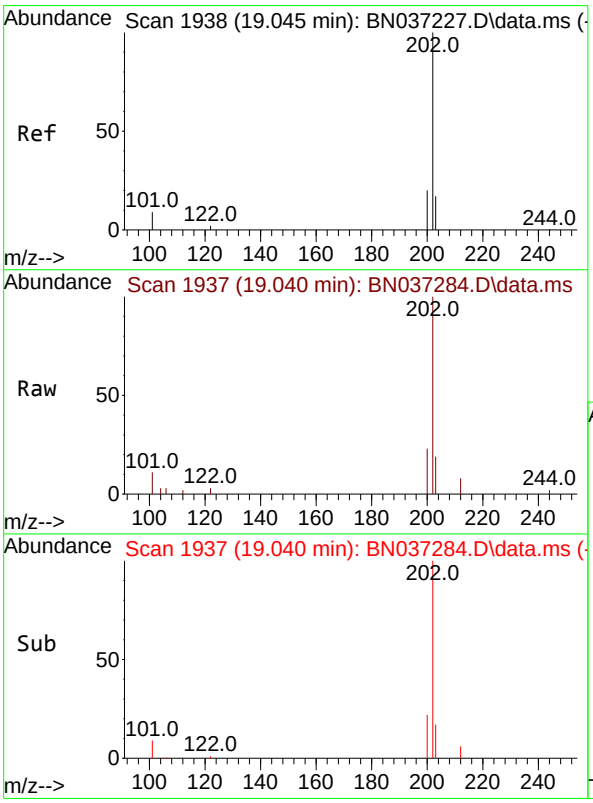
#27
Fluoranthene-d10
Concen: 0.402 ng
RT: 19.012 min Scan# 1
Delta R.T. -0.004 min
Lab File: BN037284.D
Acq: 16 Jun 2025 10:23

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:212 Resp: 2655

Ion	Ratio	Lower	Upper
212	100		
106	11.0	9.3	13.9
104	7.0	5.7	8.5

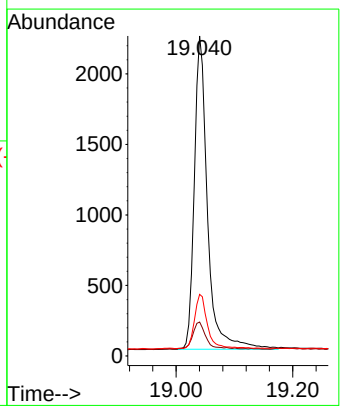


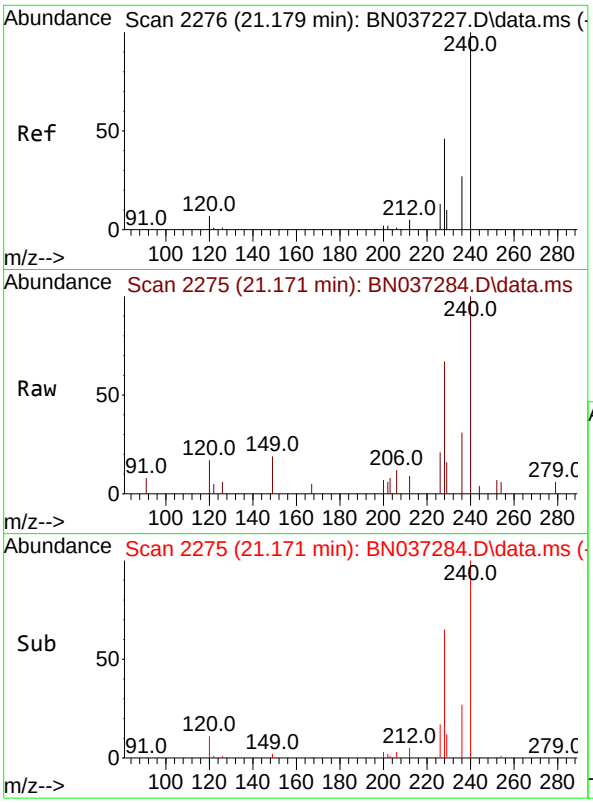


#28
Fluoranthene
Concen: 0.371 ng
RT: 19.040 min Scan# 1937
Delta R.T. -0.004 min
Lab File: BN037284.D
Acq: 16 Jun 2025 10:23

Tgt Ion:202 Resp: 3477

Ion	Ratio	Lower	Upper
202	100		
101	9.0	7.1	10.7
203	16.7	13.0	19.6



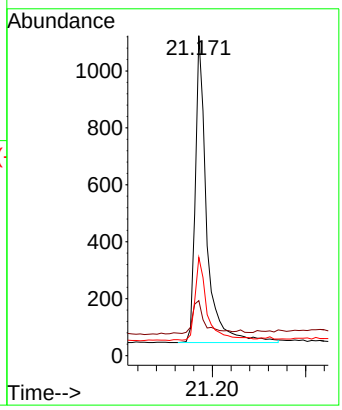


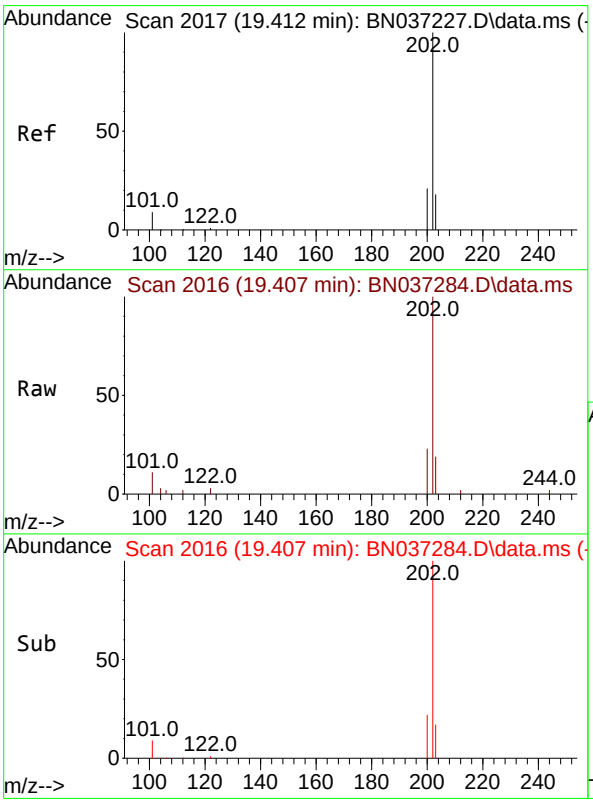
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.171 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037284.D
Acq: 16 Jun 2025 10:23

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:240 Resp: 1830

Ion	Ratio	Lower	Upper
240	100		
120	17.2	11.3	16.9#
236	30.7	24.4	36.6

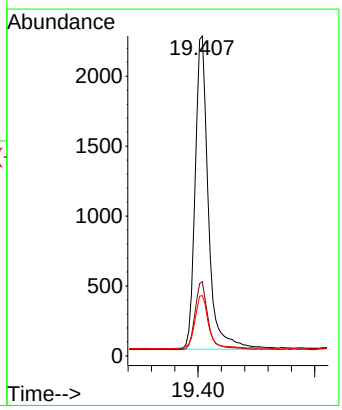


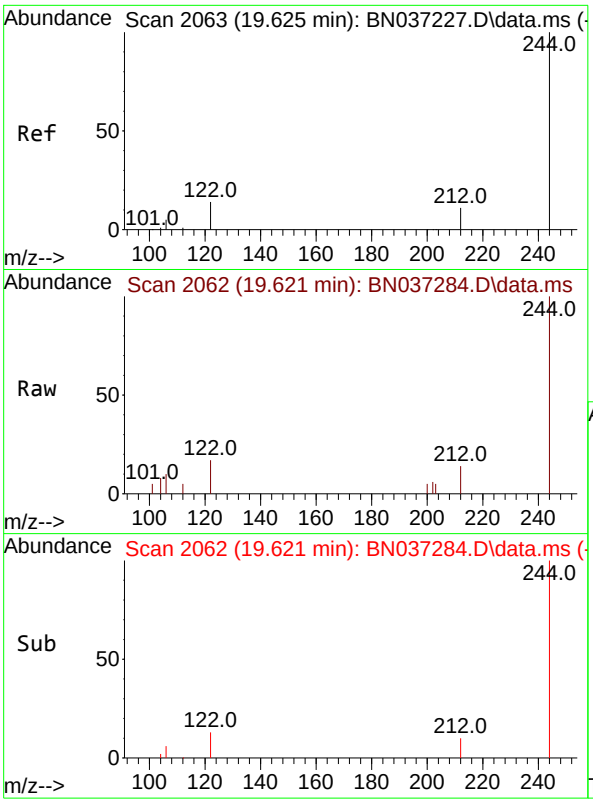


#30
Pyrene
Concen: 0.411 ng
RT: 19.407 min Scan# 2016
Delta R.T. -0.004 min
Lab File: BN037284.D
Acq: 16 Jun 2025 10:23

Tgt Ion:202 Resp: 3532

Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.2	25.8
203	17.9	14.3	21.5



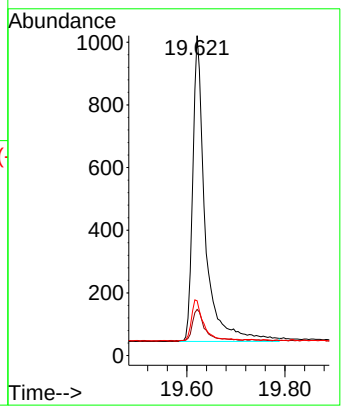


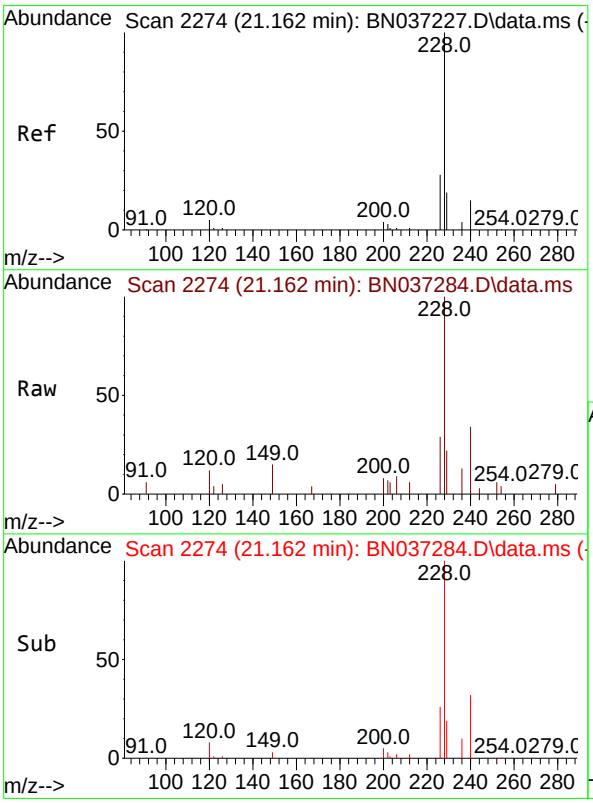
#31
Terphenyl-d14
Concen: 0.418 ng
RT: 19.621 min Scan# 2
Delta R.T. -0.004 min
Lab File: BN037284.D
Acq: 16 Jun 2025 10:23

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:244 Resp: 1731

Ion	Ratio	Lower	Upper
244	100		
212	14.4	12.2	18.2
122	17.1	14.3	21.5

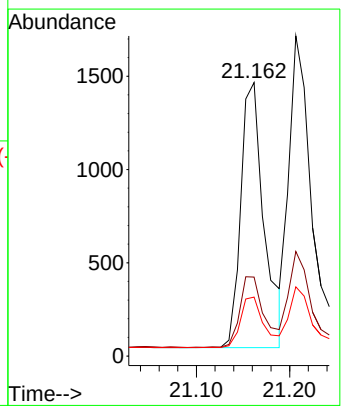


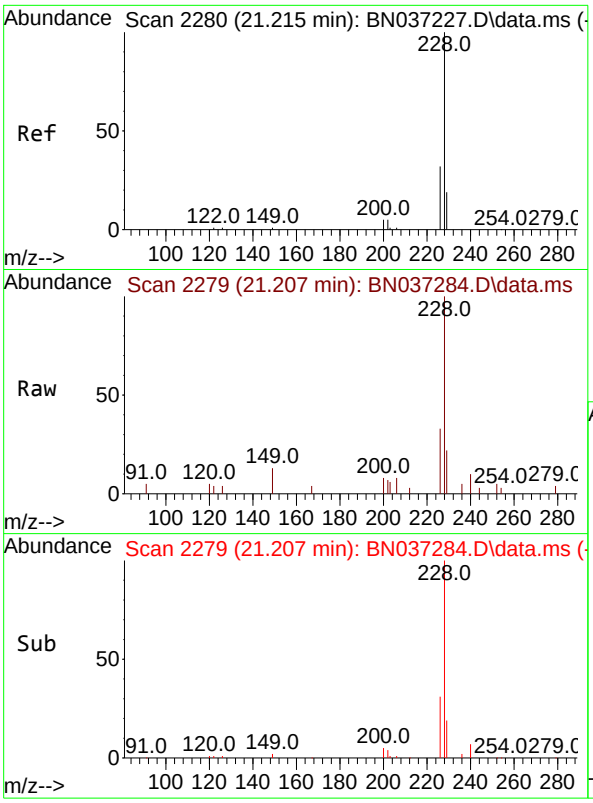


#32
Benzo(a)anthracene
Concen: 0.400 ng
RT: 21.162 min Scan# 2274
Delta R.T. 0.000 min
Lab File: BN037284.D
Acq: 16 Jun 2025 10:23

Tgt Ion:228 Resp: 2471

Ion	Ratio	Lower	Upper
228	100		
226	28.9	23.8	35.8
229	21.6	17.0	25.4



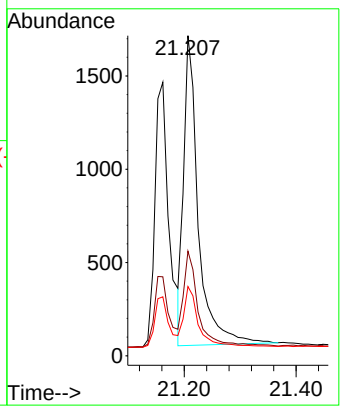


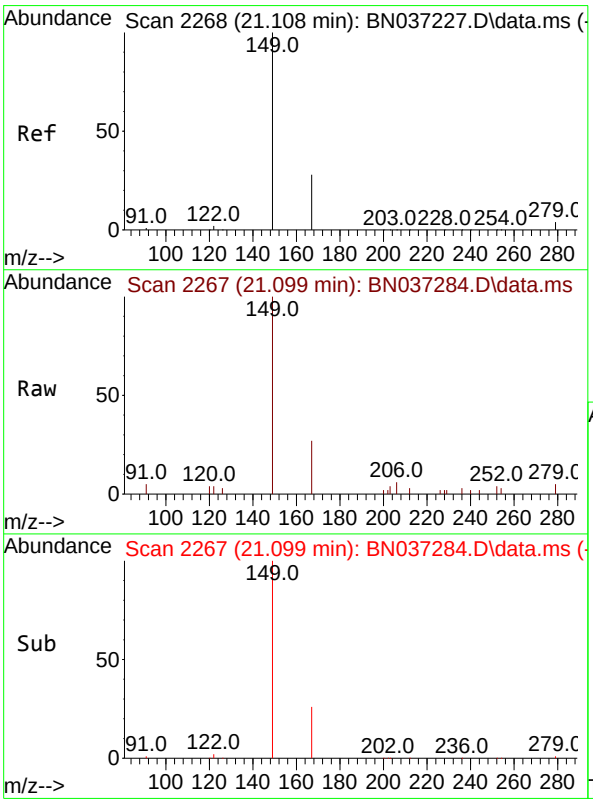
#33
Chrysene
Concen: 0.390 ng
RT: 21.207 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037284.D
Acq: 16 Jun 2025 10:23

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:228 Resp: 3003

Ion	Ratio	Lower	Upper
228	100		
226	32.7	25.8	38.6
229	21.6	17.0	25.4

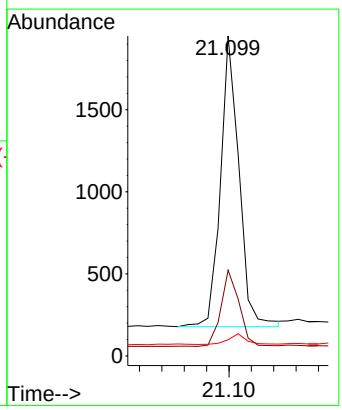


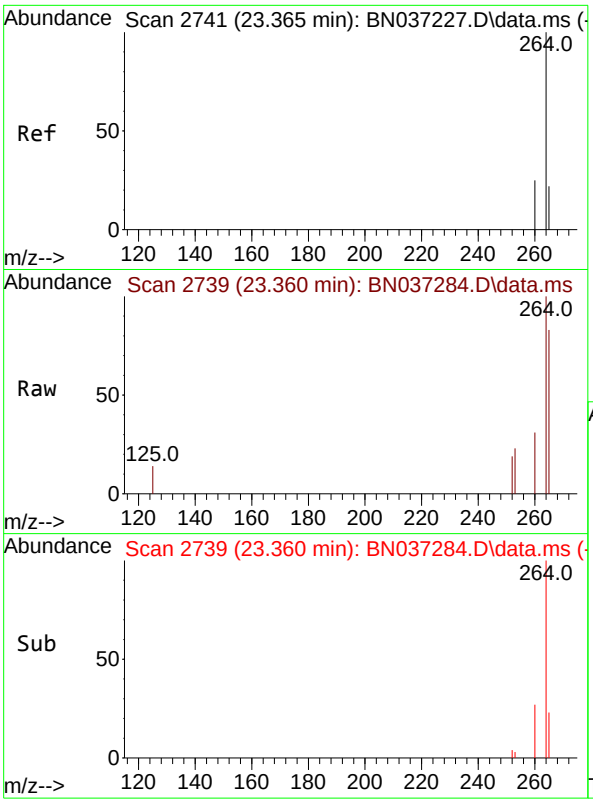


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.443 ng
RT: 21.099 min Scan# 2267
Delta R.T. -0.009 min
Lab File: BN037284.D
Acq: 16 Jun 2025 10:23

Tgt Ion:149 Resp: 2037

Ion	Ratio	Lower	Upper
149	100		
167	25.8	21.3	31.9
279	3.4	3.3	4.9



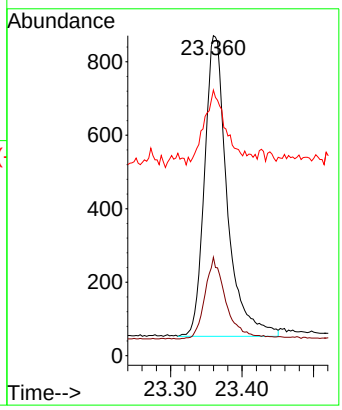


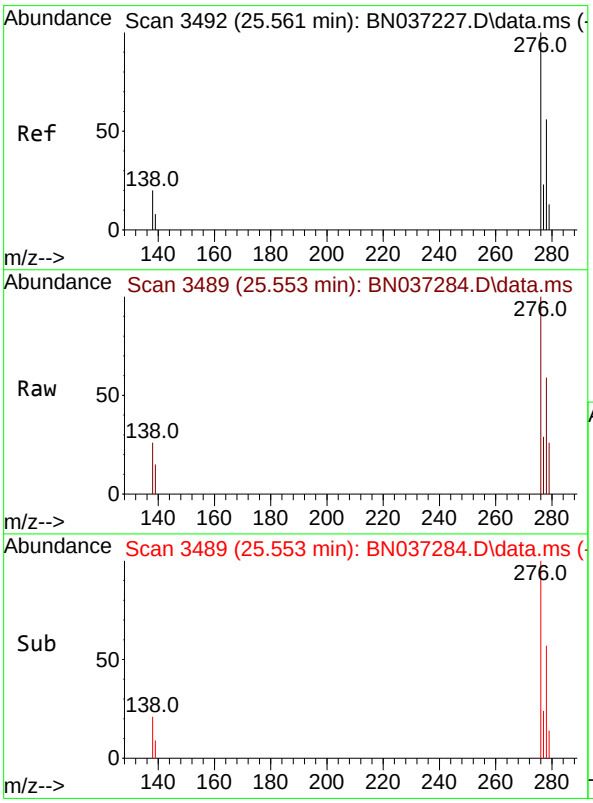
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.360 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN037284.D
Acq: 16 Jun 2025 10:23

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:264 Resp: 1806

Ion	Ratio	Lower	Upper
264	100		
260	30.8	22.8	34.2
265	83.0	66.4	99.6

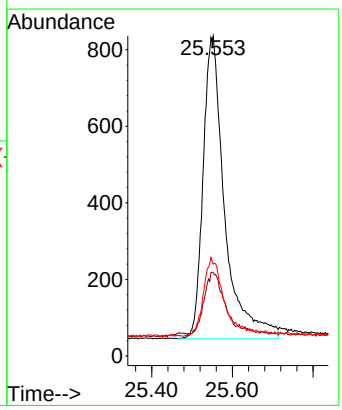


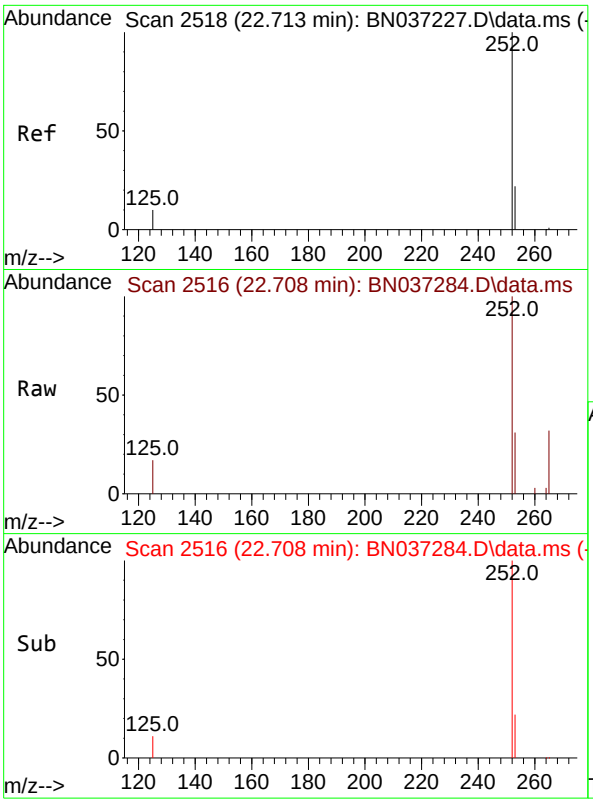


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.404 ng
RT: 25.553 min Scan# 3489
Delta R.T. -0.008 min
Lab File: BN037284.D
Acq: 16 Jun 2025 10:23

Tgt Ion:276 Resp: 2942

Ion	Ratio	Lower	Upper
276	100		
138	18.6	16.8	25.2
277	23.3	19.5	29.3



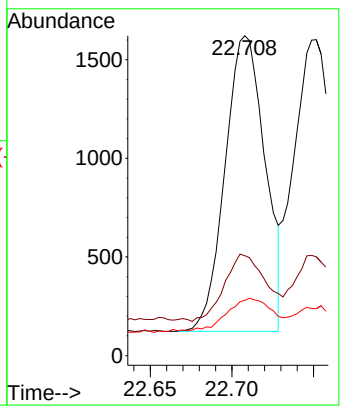


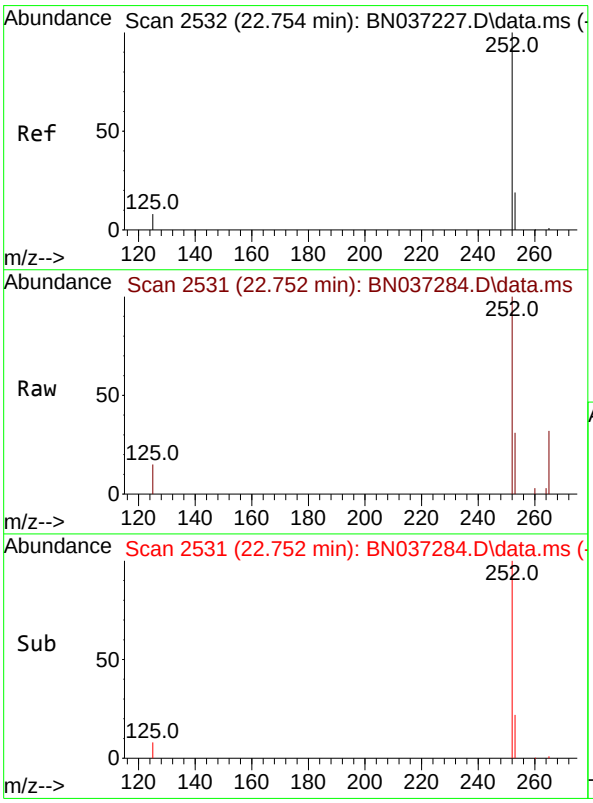
#37
Benzo(b)fluoranthene
Concen: 0.387 ng
RT: 22.708 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN037284.D
Acq: 16 Jun 2025 10:23

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 2557

Ion	Ratio	Lower	Upper
252	100		
253	31.3	24.9	37.3
125	17.3	12.9	19.3

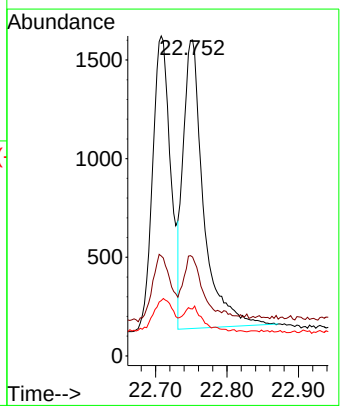


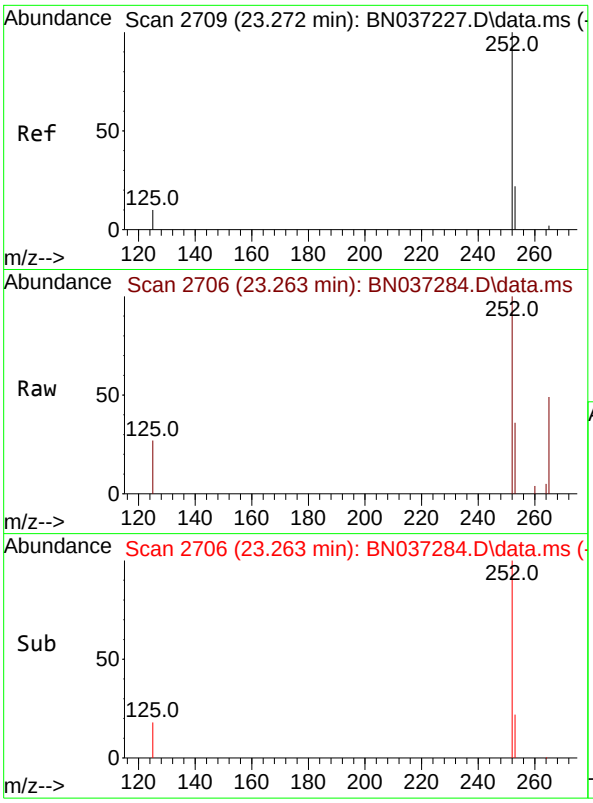


#38
Benzo(k)fluoranthene
Concen: 0.379 ng
RT: 22.752 min Scan# 2531
Delta R.T. -0.003 min
Lab File: BN037284.D
Acq: 16 Jun 2025 10:23

Tgt Ion:252 Resp: 2890

Ion	Ratio	Lower	Upper
252	100		
253	31.3	24.6	37.0
125	14.9	13.4	20.2



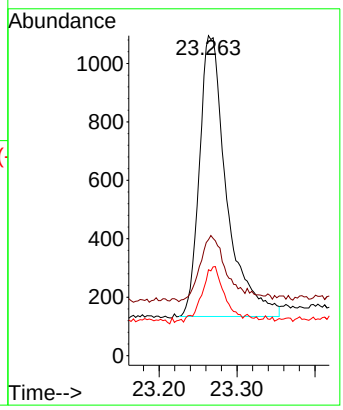


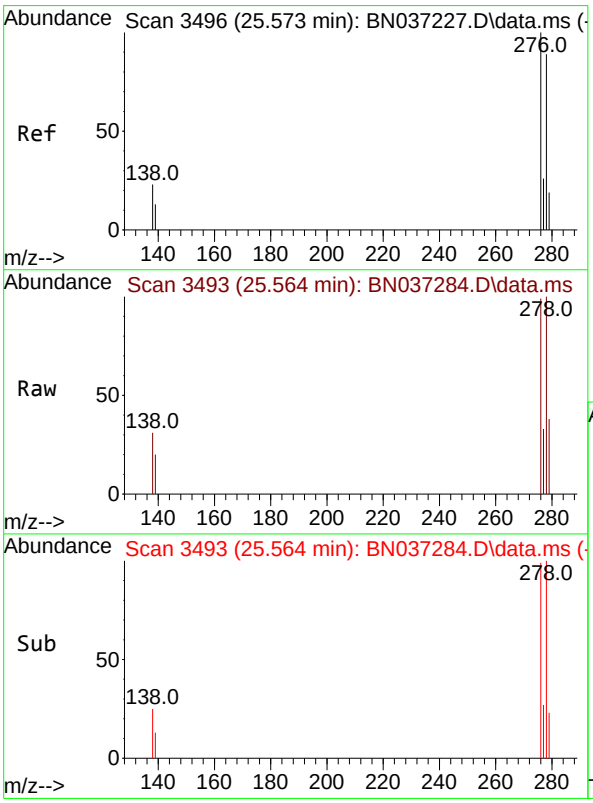
#39
Benzo(a)pyrene
Concen: 0.391 ng
RT: 23.263 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037284.D
Acq: 16 Jun 2025 10:23

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 2325

Ion	Ratio	Lower	Upper
252	100		
253	36.3	29.4	44.2
125	26.8	16.2	24.2#

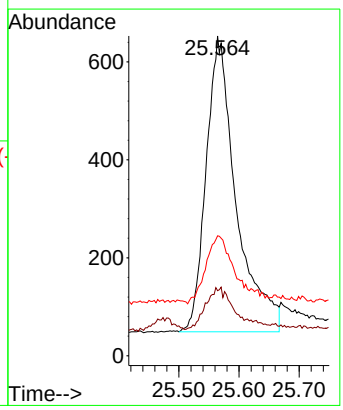


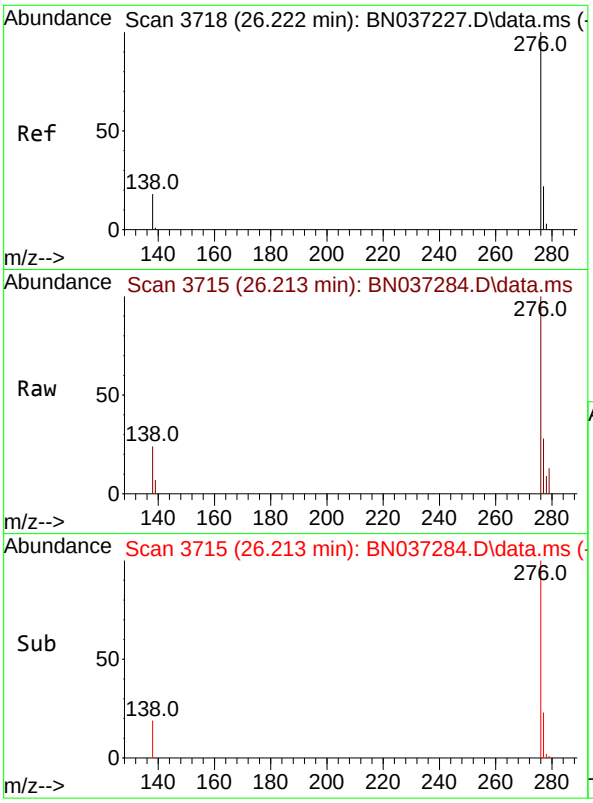


#40
Dibenzo(a,h)anthracene
Concen: 0.378 ng
RT: 25.564 min Scan# 3493
Delta R.T. -0.009 min
Lab File: BN037284.D
Acq: 16 Jun 2025 10:23

Tgt Ion:278 Resp: 2093

Ion	Ratio	Lower	Upper
278	100		
139	20.4	17.8	26.6
279	37.5	31.3	46.9



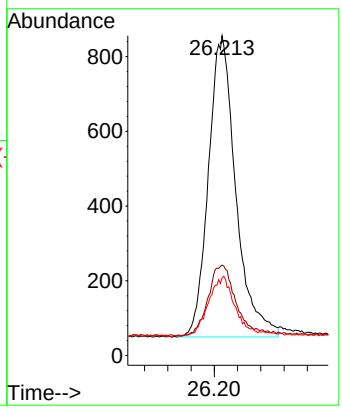


#41
Benzo(g,h,i)perylene
Concen: 0.389 ng
RT: 26.213 min Scan# 3
Delta R.T. -0.009 min
Lab File: BN037284.D
Acq: 16 Jun 2025 10:23

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:276 Resp: 2630

Ion	Ratio	Lower	Upper
276	100		
277	28.3	22.0	33.0
138	24.3	18.4	27.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061625\
Data File : BN037284.D
Acq On : 16 Jun 2025 10:23
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Jun 16 11:17:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 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	82	0.00
2		1,4-Dioxane	0.549	0.530	3.5	83	0.00
3		n-Nitrosodimethylamine	1.250	1.315	-5.2	84	0.00
4	S	2-Fluorophenol	0.982	0.918	6.5	80	0.00
5	S	Phenol-d6	1.035	1.022	1.3	87	0.00
6		bis(2-Chloroethyl)ether	0.927	0.982	-5.9	93	0.00
7	I	Naphthalene-d8	1.000	1.000	0.0	81	-0.01
8	S	Nitrobenzene-d5	0.395	0.424	-7.3	89	0.00
9		Naphthalene	1.158	1.148	0.9	82	-0.01
10		Hexachlorobutadiene	0.282	0.287	-1.8	77	0.00
11	SURR	2-Methylnaphthalene-d10	0.537	0.560	-4.3	81	0.00
12		2-Methylnaphthalene	0.704	0.702	0.3	81	0.00
13	I	Acenaphthene-d10	1.000	1.000	0.0	78	0.00
14	S	2,4,6-Tribromophenol	0.166	0.178	-7.2	82	-0.01
15	S	2-Fluorobiphenyl	1.681	1.751	-4.2	81	0.00
16		Acenaphthylene	1.960	1.935	1.3	81	-0.01
17		Acenaphthene	1.265	1.232	2.6	78	0.00
18		Fluorene	1.625	1.567	3.6	77	0.00
19	I	Phenanthrene-d10	1.000	1.000	0.0	79	0.00
20		4,6-Dinitro-2-methylphenol	0.092	0.087	5.4	104	0.00
21		4-Bromophenyl-phenylether	0.261	0.264	-1.1	85	0.00
22		Hexachlorobenzene	0.302	0.305	-1.0	77	0.00
23		Atrazine	0.232	0.220	5.2	78	-0.01
24		Pentachlorophenol	0.148	0.153	-3.4	97	0.00
25		Phenanthrene	1.269	1.217	4.1	81	-0.01
26		Anthracene	1.161	1.102	5.1	81	0.00
27	SURR	Fluoranthene-d10	1.046	1.053	-0.7	79	0.00
28		Fluoranthene	1.485	1.379	7.1	77	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	80	0.00
30		Pyrene	1.881	1.930	-2.6	79	0.00
31	S	Terphenyl-d14	0.904	0.946	-4.6	80	0.00
32		Benzo(a)anthracene	1.351	1.350	0.1	88	0.00
33		Chrysene	1.683	1.641	2.5	78	0.00
34		Bis(2-ethylhexyl)phthalate	1.006	1.113	-10.6	87	0.00
35	I	Perylene-d12	1.000	1.000	0.0	84	0.00
36		Indeno(1,2,3-cd)pyrene	1.613	1.629	-1.0	91	0.00
37		Benzo(b)fluoranthene	1.463	1.416	3.2	86	0.00
38		Benzo(k)fluoranthene	1.689	1.600	5.3	83	0.00
39	C	Benzo(a)pyrene	1.316	1.287	2.2	88	0.00
40		Dibenzo(a,h)anthracene	1.227	1.159	5.5	93	0.00
41		Benzo(g,h,i)perylene	1.496	1.456	2.7	85	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061625\
Data File : BN037284.D
Acq On : 16 Jun 2025 10:23
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Jun 16 11:17:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 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	0.400	0.400	0.0	82	0.00
2		1,4-Dioxane	0.400	0.387	3.3	83	0.00
3		n-Nitrosodimethylamine	0.400	0.421	-5.2	84	0.00
4	S	2-Fluorophenol	0.400	0.374	6.5	80	0.00
5	S	Phenol-d6	0.400	0.395	1.3	87	0.00
6		bis(2-Chloroethyl)ether	0.400	0.424	-6.0	93	0.00
7	I	Naphthalene-d8	0.400	0.400	0.0	81	-0.01
8	S	Nitrobenzene-d5	0.400	0.429	-7.2	89	0.00
9		Naphthalene	0.400	0.396	1.0	82	-0.01
10		Hexachlorobutadiene	0.400	0.408	-2.0	77	0.00
11	SURR	2-Methylnaphthalene-d10	0.400	0.417	-4.2	81	0.00
12		2-Methylnaphthalene	0.400	0.398	0.5	81	0.00
13	I	Acenaphthene-d10	0.400	0.400	0.0	78	0.00
14	S	2,4,6-Tribromophenol	0.400	0.429	-7.2	82	-0.01
15	S	2-Fluorobiphenyl	0.400	0.417	-4.2	81	0.00
16		Acenaphthylene	0.400	0.395	1.3	81	-0.01
17		Acenaphthene	0.400	0.390	2.5	78	0.00
18		Fluorene	0.400	0.386	3.5	77	0.00
19	I	Phenanthrene-d10	0.400	0.400	0.0	79	0.00
20		4,6-Dinitro-2-methylphenol	0.400	0.449	-12.2	104	0.00
21		4-Bromophenyl-phenylether	0.400	0.405	-1.3	85	0.00
22		Hexachlorobenzene	0.400	0.404	-1.0	77	0.00
23		Atrazine	0.400	0.379	5.3	78	-0.01
24		Pentachlorophenol	0.400	0.415	-3.7	97	0.00
25		Phenanthrene	0.400	0.384	4.0	81	-0.01
26		Anthracene	0.400	0.380	5.0	81	0.00
27	SURR	Fluoranthene-d10	0.400	0.402	-0.5	79	0.00
28		Fluoranthene	0.400	0.371	7.3	77	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	80	0.00
30		Pyrene	0.400	0.411	-2.7	79	0.00
31	S	Terphenyl-d14	0.400	0.418	-4.5	80	0.00
32		Benzo(a)anthracene	0.400	0.400	0.0	88	0.00
33		Chrysene	0.400	0.390	2.5	78	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.443	-10.7	87	0.00
35	I	Perylene-d12	0.400	0.400	0.0	84	0.00
36		Indeno(1,2,3-cd)pyrene	0.400	0.404	-1.0	91	0.00
37		Benzo(b)fluoranthene	0.400	0.387	3.3	86	0.00
38		Benzo(k)fluoranthene	0.400	0.379	5.3	83	0.00
39	C	Benzo(a)pyrene	0.400	0.391	2.3	88	0.00
40		Dibenzo(a,h)anthracene	0.400	0.378	5.5	93	0.00
41		Benzo(g,h,i)perylene	0.400	0.389	2.8	85	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q2299 SAS No.: Q2299 SDG No.: Q2299

Instrument ID: BNA_N Calibration Date/Time: 06/16/2025 13:53

Lab File ID: BN037289.D Init. Calib. Date(s): 06/13/2025 06/13/2025

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 13:33 17:11

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.537	0.562		4.7	50.0
Fluoranthene-d10	1.047	1.069		2.2	50.0
2-Fluorophenol	0.982	0.975		-0.7	50.0
Phenol-d6	1.035	1.052		1.6	50.0
Nitrobenzene-d5	0.395	0.419		6.1	50.0
2-Fluorobiphenyl	1.681	1.752		4.2	50.0
2,4,6-Tribromophenol	0.166	0.186		12.0	50.0
Terphenyl-d14	0.904	0.931		3.0	50.0
1,4-Dioxane	0.549	0.534		-2.7	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061625\
Data File : BN037289.D
Acq On : 16 Jun 2025 13:53
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Jun 16 14:25:47 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration

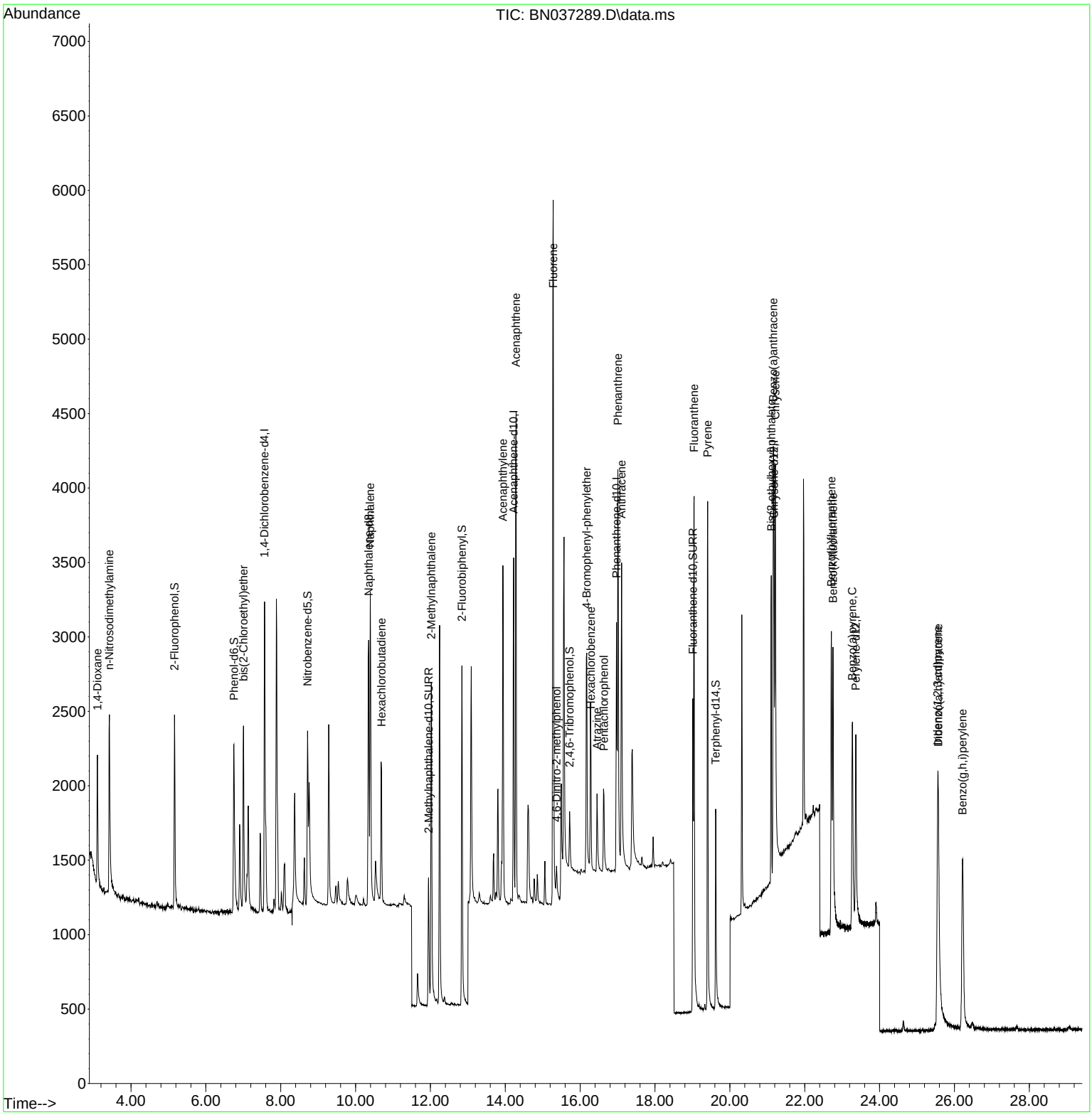
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.568	152	1004	0.400	ng		0.00
7) Naphthalene-d8	10.351	136	2564	0.400	ng		-0.01
13) Acenaphthene-d10	14.224	164	1325	0.400	ng		0.00
19) Phenanthrene-d10	16.971	188	2457	0.400	ng		0.00
29) Chrysene-d12	21.180	240	1850	0.400	ng		0.00
35) Perylene-d12	23.366	264	1831	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.163	112	979	0.397	ng		0.00
5) Phenol-d6	6.752	99	1056	0.406	ng		0.00
8) Nitrobenzene-d5	8.717	82	1074	0.424	ng		-0.01
11) 2-Methylnaphthalene-d10	11.950	152	1441	0.419	ng		0.00
14) 2,4,6-Tribromophenol	15.718	330	246	0.447	ng		-0.01
15) 2-Fluorobiphenyl	12.843	172	2322	0.417	ng		0.00
27) Fluoranthene-d10	19.012	212	2626	0.409	ng		0.00
31) Terphenyl-d14	19.621	244	1723	0.412	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.104	88	536	0.389	ng		89
3) n-Nitrosodimethylamine	3.422	42	1384	0.441	ng	#	95
6) bis(2-Chloroethyl)ether	7.004	93	1005	0.432	ng		92
9) Naphthalene	10.394	128	2880	0.388	ng		98
10) Hexachlorobutadiene	10.693	225	758	0.420	ng	#	100
12) 2-Methylnaphthalene	12.026	142	1802	0.399	ng		99
16) Acenaphthylene	13.935	152	2517	0.388	ng		99
17) Acenaphthene	14.288	154	1632	0.389	ng		99
18) Fluorene	15.282	166	2119	0.394	ng		100
20) 4,6-Dinitro-2-methylph...	15.368	198	232	0.476	ng		93
21) 4-Bromophenyl-phenylether	16.177	248	641	0.400	ng	#	82
22) Hexachlorobenzene	16.289	284	750	0.404	ng		98
23) Atrazine	16.450	200	552	0.387	ng		93
24) Pentachlorophenol	16.636	266	364	0.400	ng		97
25) Phenanthrene	17.009	178	3022	0.388	ng		99
26) Anthracene	17.108	178	2722	0.382	ng		99
28) Fluoranthene	19.045	202	3429	0.376	ng		99
30) Pyrene	19.407	202	3525	0.405	ng		100
32) Benzo(a)anthracene	21.162	228	2410	0.386	ng		98
33) Chrysene	21.215	228	3068	0.394	ng		99
34) Bis(2-ethylhexyl)phtha...	21.108	149	2027	0.436	ng		100
36) Indeno(1,2,3-cd)pyrene	25.552	276	2713	0.367	ng		97
37) Benzo(b)fluoranthene	22.711	252	2629	0.393	ng		99
38) Benzo(k)fluoranthene	22.755	252	2896	0.375	ng		99
39) Benzo(a)pyrene	23.269	252	2331	0.387	ng	#	94
40) Dibenzo(a,h)anthracene	25.570	278	2205	0.393	ng		98
41) Benzo(g,h,i)perylene	26.216	276	2595	0.379	ng		96

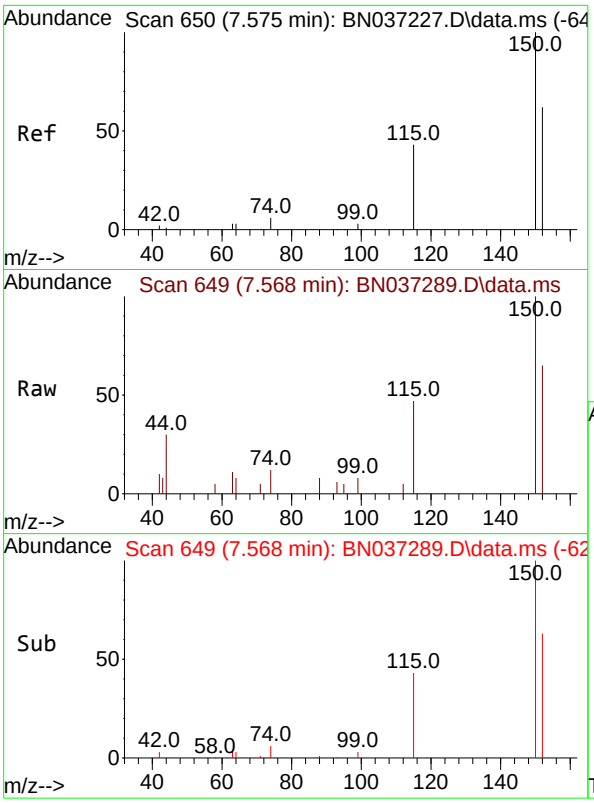
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061625\
Data File : BN037289.D
Acq On : 16 Jun 2025 13:53
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Jun 16 14:25:47 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration



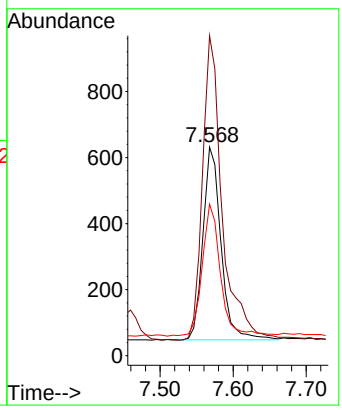


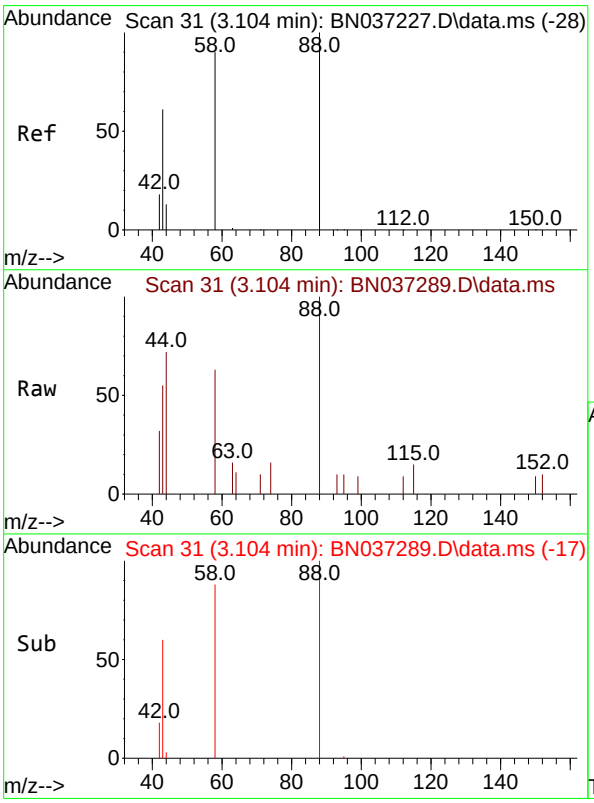
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.568 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN037289.D
Acq: 16 Jun 2025 13:53

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 1004

Ion	Ratio	Lower	Upper
152	100		
150	153.3	125.2	187.8
115	72.6	58.4	87.6

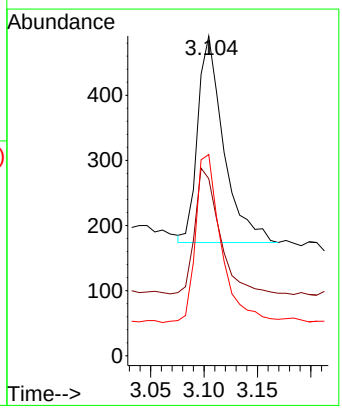


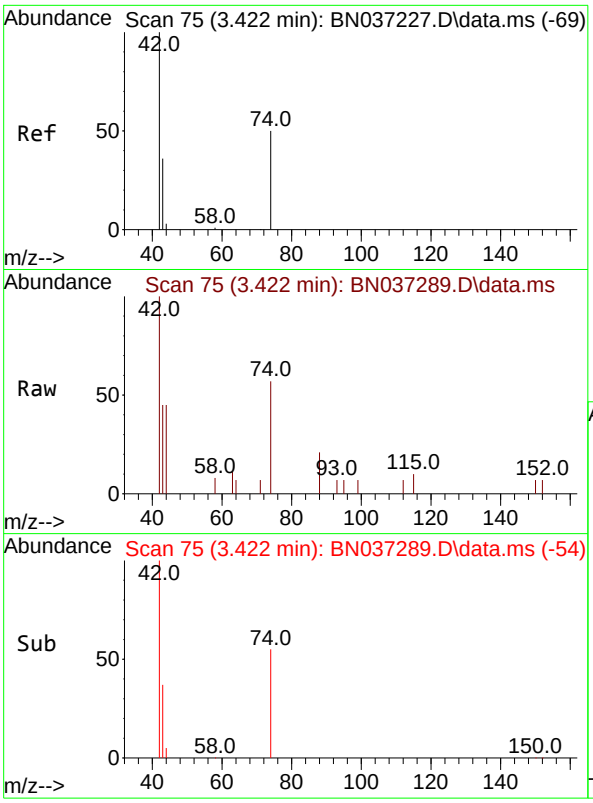


#2
1,4-Dioxane
Concen: 0.389 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037289.D
Acq: 16 Jun 2025 13:53

Tgt Ion: 88 Resp: 536

Ion	Ratio	Lower	Upper
88	100		
43	58.2	52.6	79.0
58	81.0	73.5	110.3



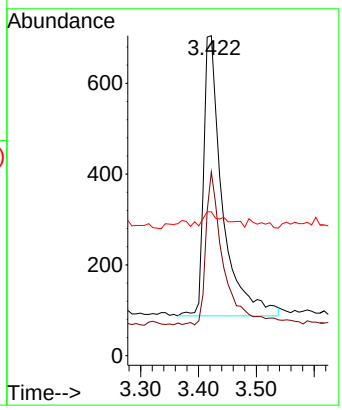


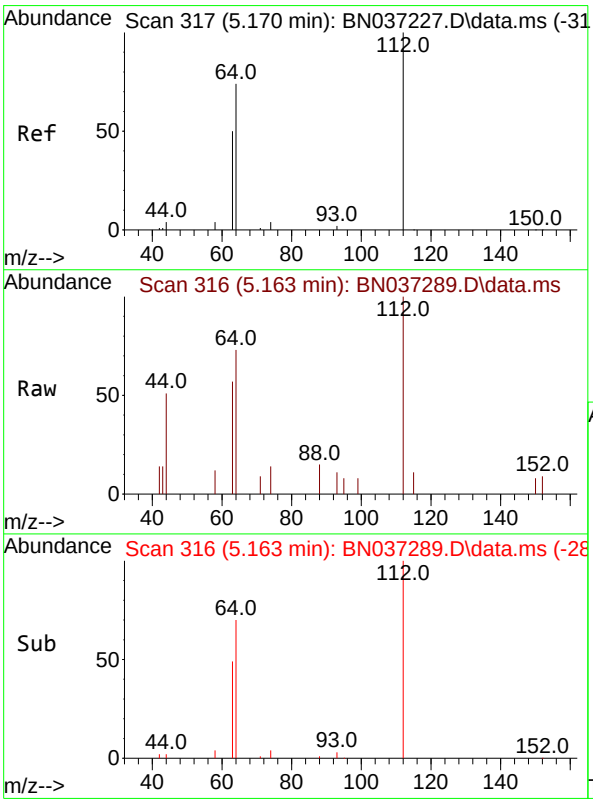
#3
n-Nitrosodimethylamine
Concen: 0.441 ng
RT: 3.422 min Scan# 7
Delta R.T. 0.000 min
Lab File: BN037289.D
Acq: 16 Jun 2025 13:53

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 42 Resp: 1384

Ion	Ratio	Lower	Upper
42	100		
74	51.8	44.6	66.8
44	6.6	3.5	5.3#

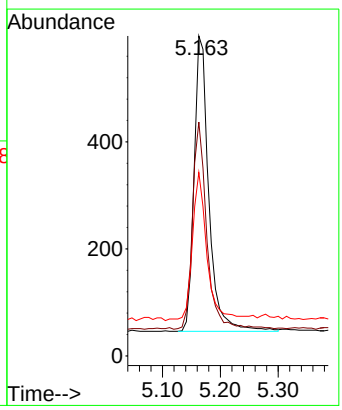


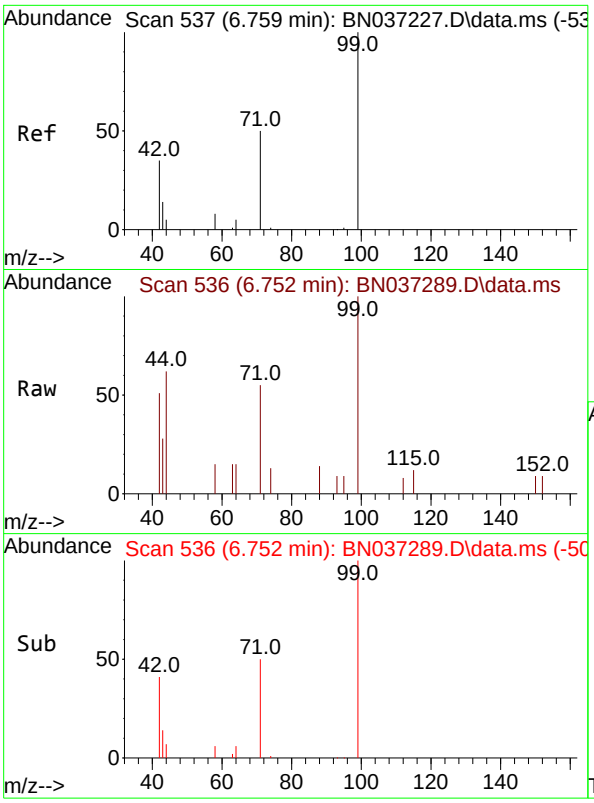


#4
2-Fluorophenol
Concen: 0.397 ng
RT: 5.163 min Scan# 316
Delta R.T. -0.007 min
Lab File: BN037289.D
Acq: 16 Jun 2025 13:53

Tgt Ion:112 Resp: 979

Ion	Ratio	Lower	Upper
112	100		
64	68.3	57.2	85.8
63	49.4	39.8	59.6



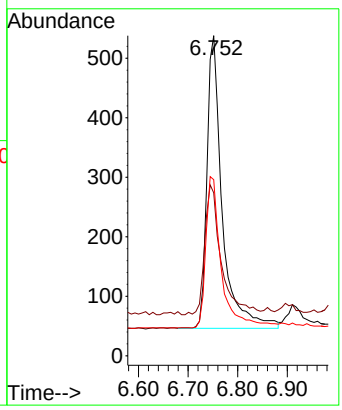


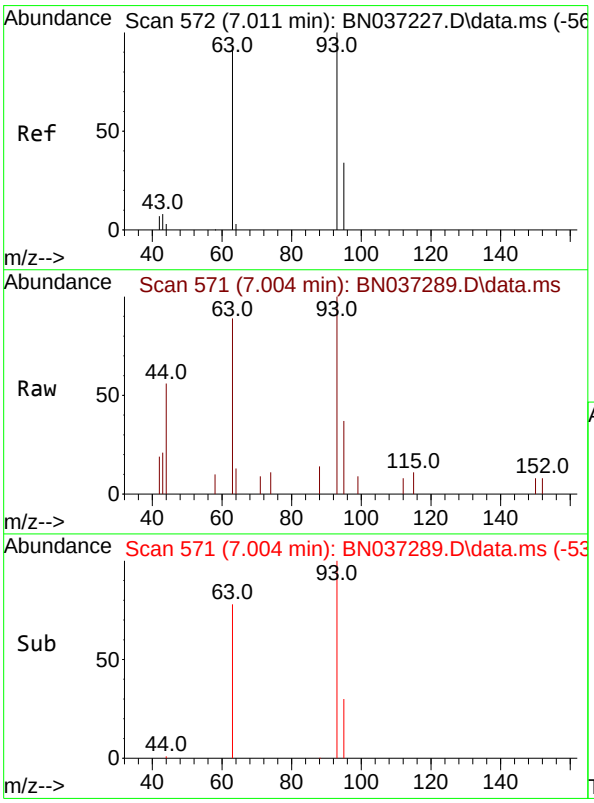
#5
Phenol-d6
Concen: 0.406 ng
RT: 6.752 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN037289.D
Acq: 16 Jun 2025 13:53

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 99 Resp: 1056

Ion	Ratio	Lower	Upper
99	100		
42	47.7	36.2	54.4
71	54.3	42.4	63.6

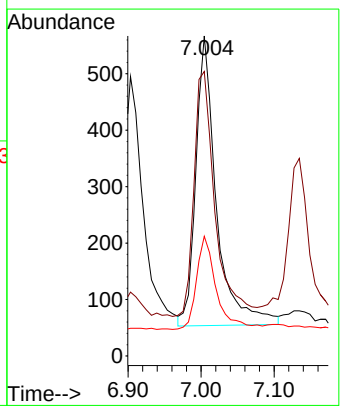


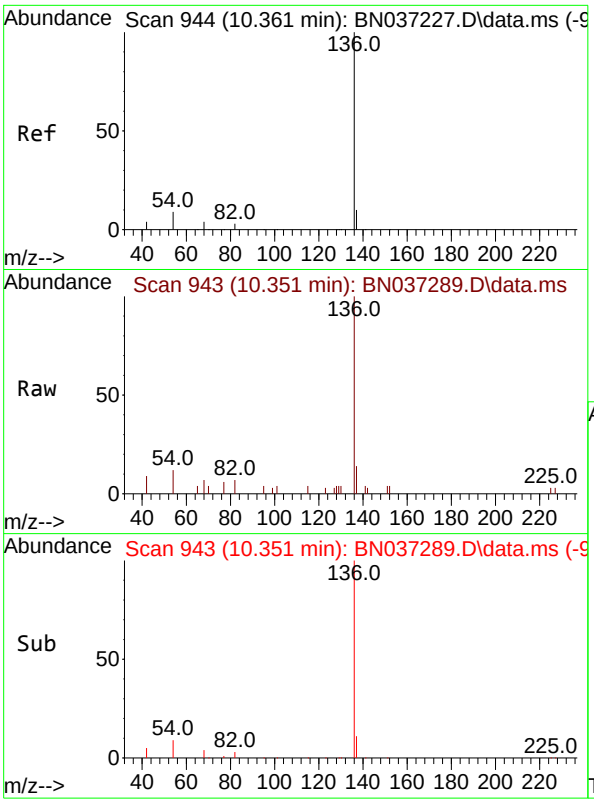


#6
bis(2-Chloroethyl)ether
Concen: 0.432 ng
RT: 7.004 min Scan# 571
Delta R.T. -0.007 min
Lab File: BN037289.D
Acq: 16 Jun 2025 13:53

Tgt Ion: 93 Resp: 1005

Ion	Ratio	Lower	Upper
93	100		
63	86.2	75.2	112.8
95	31.0	28.3	42.5



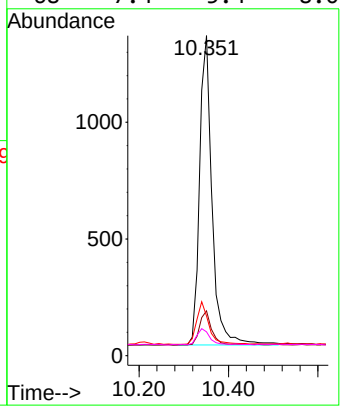


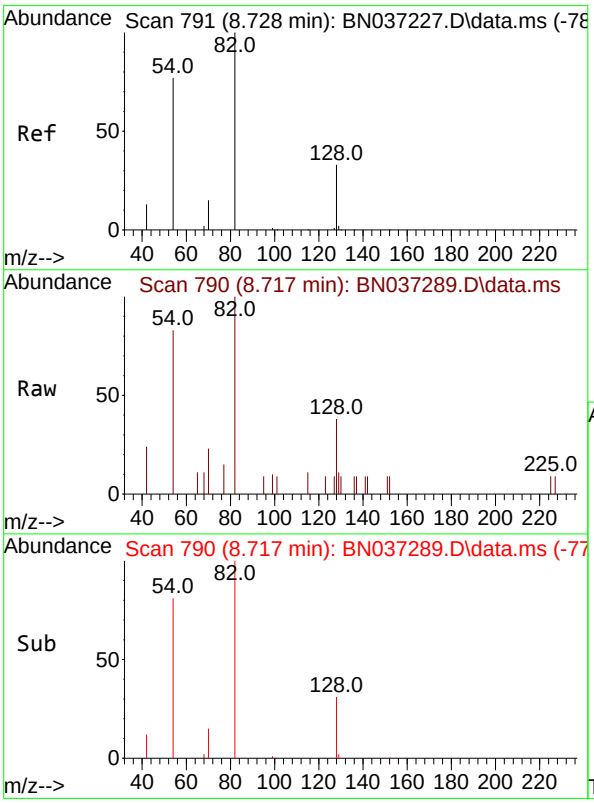
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037289.D
Acq: 16 Jun 2025 13:53

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:136 Resp: 2564

Ion	Ratio	Lower	Upper
136	100		
137	14.0	10.6	15.8
54	12.4	9.2	13.8
68	7.4	5.4	8.0

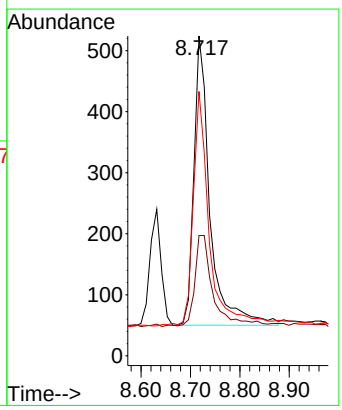


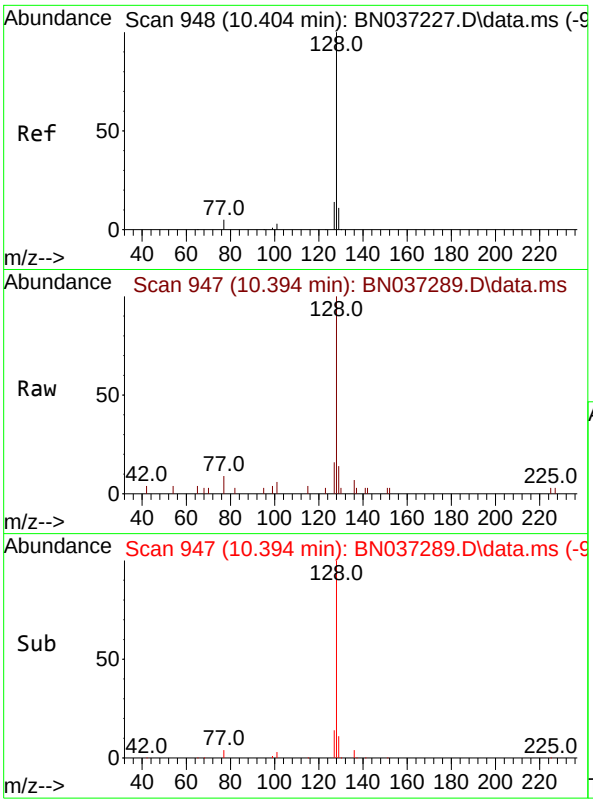


#8
Nitrobenzene-d5
Concen: 0.424 ng
RT: 8.717 min Scan# 790
Delta R.T. -0.011 min
Lab File: BN037289.D
Acq: 16 Jun 2025 13:53

Tgt Ion: 82 Resp: 1074

Ion	Ratio	Lower	Upper
82	100		
128	37.6	31.2	46.8
54	82.6	63.3	94.9



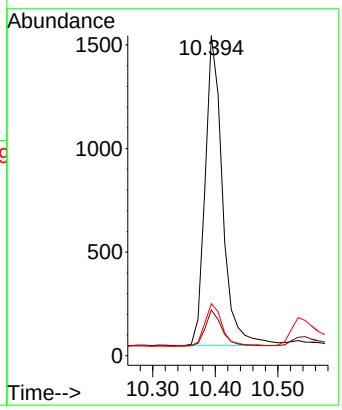


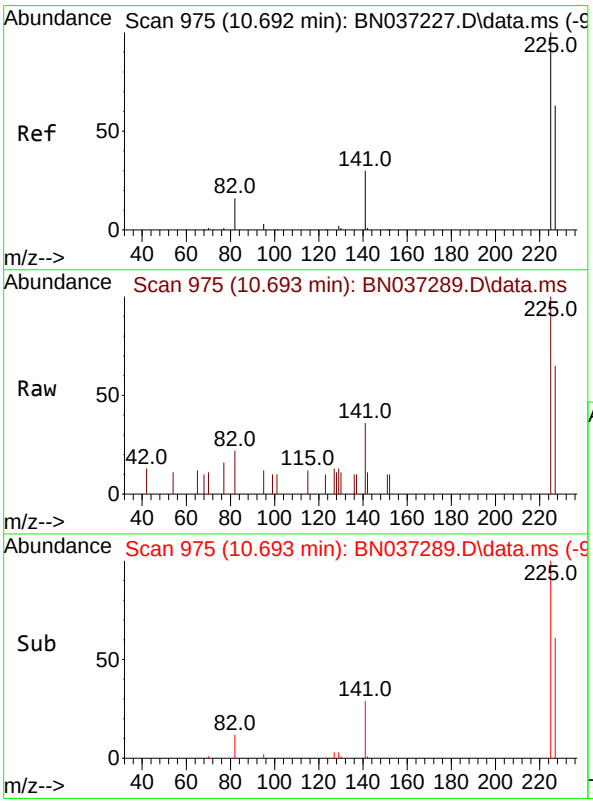
#9
Naphthalene
Concen: 0.388 ng
RT: 10.394 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037289.D
Acq: 16 Jun 2025 13:53

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:128 Resp: 2880

Ion	Ratio	Lower	Upper
128	100		
129	14.3	10.7	16.1
127	16.2	12.6	19.0

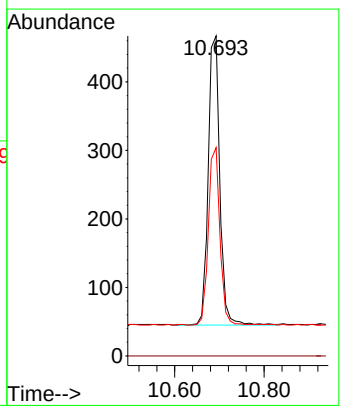


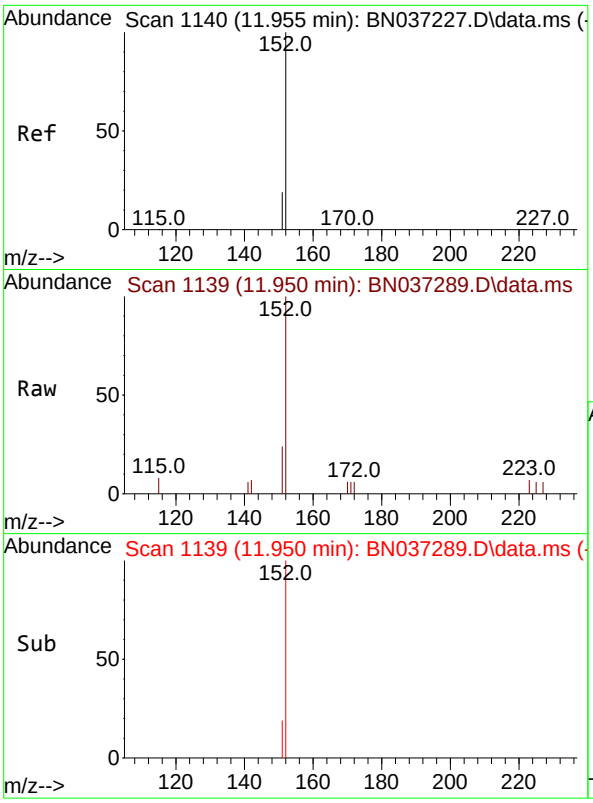


#10
Hexachlorobutadiene
Concen: 0.420 ng
RT: 10.693 min Scan# 975
Delta R.T. 0.000 min
Lab File: BN037289.D
Acq: 16 Jun 2025 13:53

Tgt Ion:225 Resp: 758

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	61.5	49.2	73.8



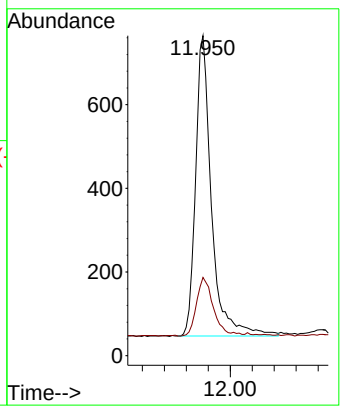


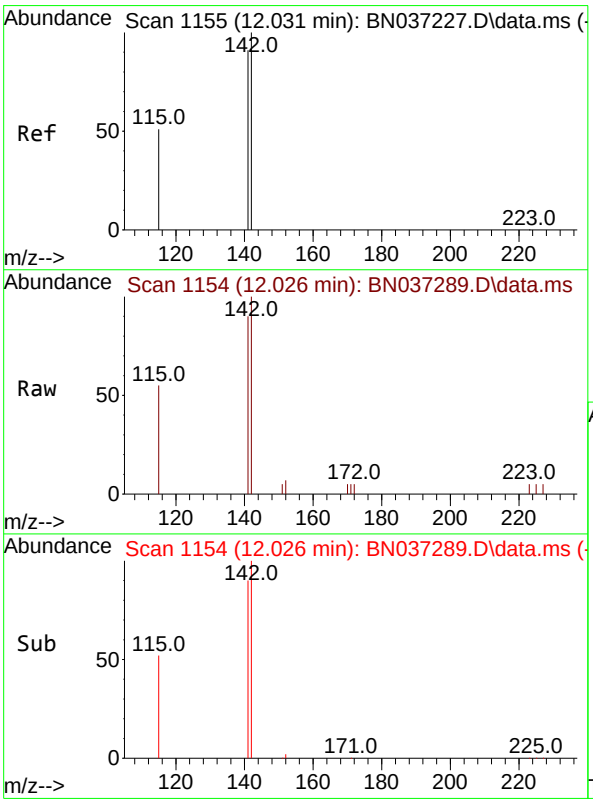
#11
2-Methylnaphthalene-d10
Concen: 0.419 ng
RT: 11.950 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN037289.D
Acq: 16 Jun 2025 13:53

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 1441

Ion	Ratio	Lower	Upper
152	100		
151	20.7	17.9	26.9

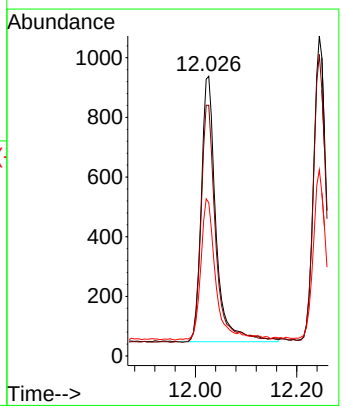


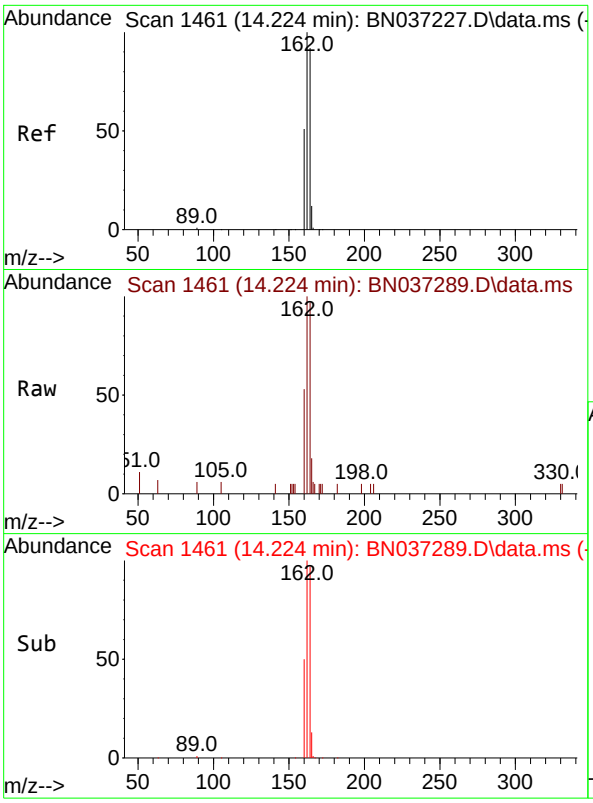


#12
2-Methylnaphthalene
Concen: 0.399 ng
RT: 12.026 min Scan# 1154
Delta R.T. -0.005 min
Lab File: BN037289.D
Acq: 16 Jun 2025 13:53

Tgt Ion:142 Resp: 1802

Ion	Ratio	Lower	Upper
142	100		
141	89.7	73.0	109.6
115	54.8	43.3	64.9



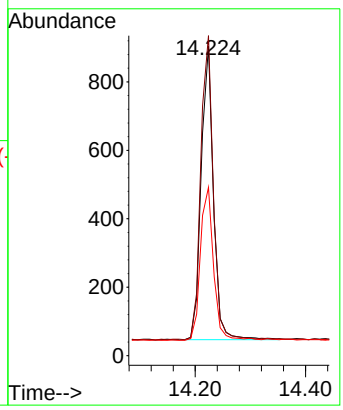


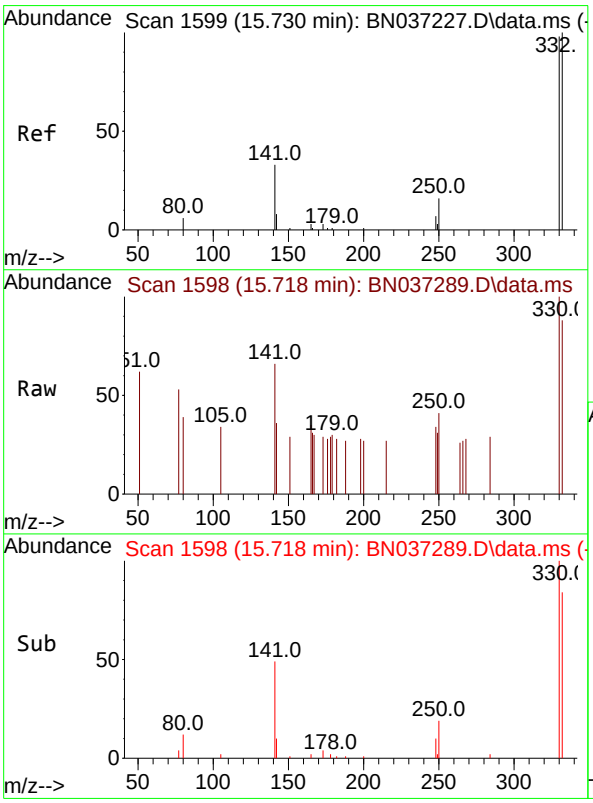
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037289.D
Acq: 16 Jun 2025 13:53

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:164 Resp: 1325

Ion	Ratio	Lower	Upper
164	100		
162	103.4	86.7	130.1
160	54.4	45.8	68.6

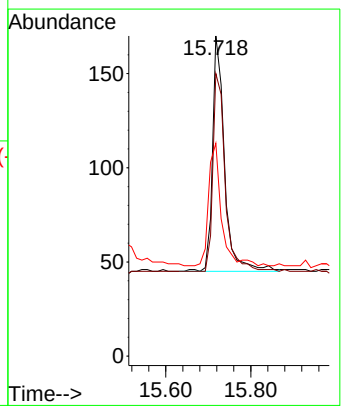


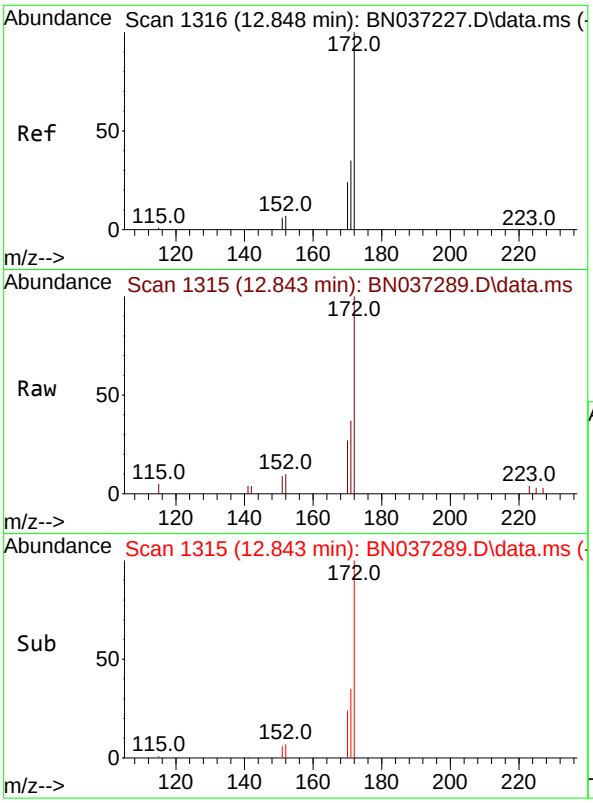


#14
2,4,6-Tribromophenol
Concen: 0.447 ng
RT: 15.718 min Scan# 1598
Delta R.T. -0.012 min
Lab File: BN037289.D
Acq: 16 Jun 2025 13:53

Tgt Ion:330 Resp: 246

Ion	Ratio	Lower	Upper
330	100		
332	85.8	74.9	112.3
141	55.3	45.1	67.7



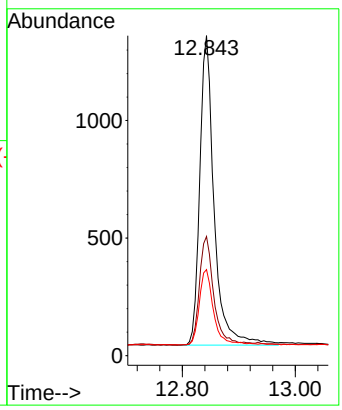


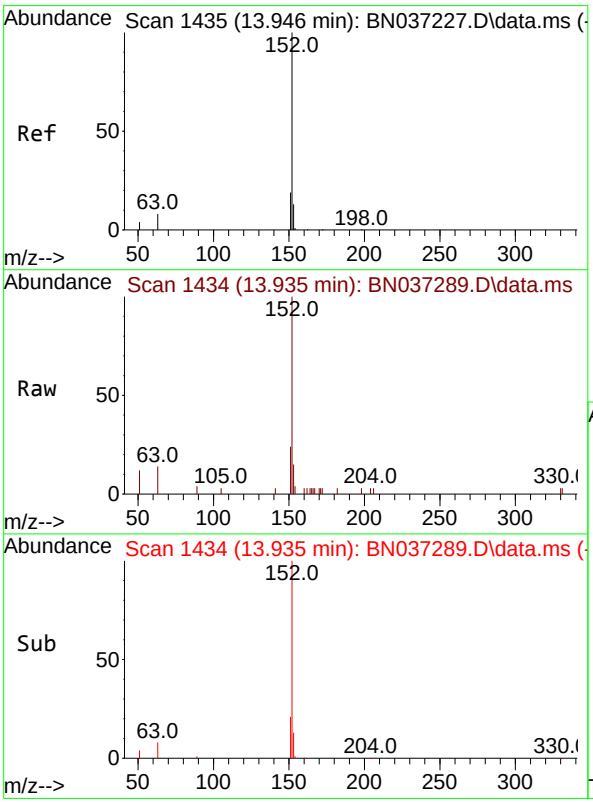
#15
2-Fluorobiphenyl
Concen: 0.417 ng
RT: 12.843 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN037289.D
Acq: 16 Jun 2025 13:53

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:172 Resp: 2322

Ion	Ratio	Lower	Upper
172	100		
171	37.3	29.8	44.8
170	26.9	21.1	31.7

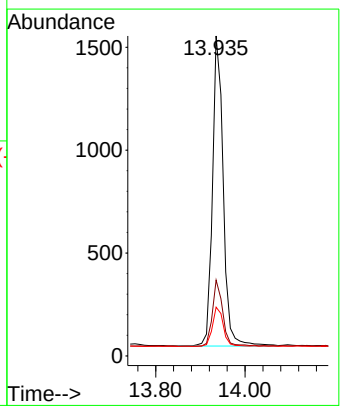


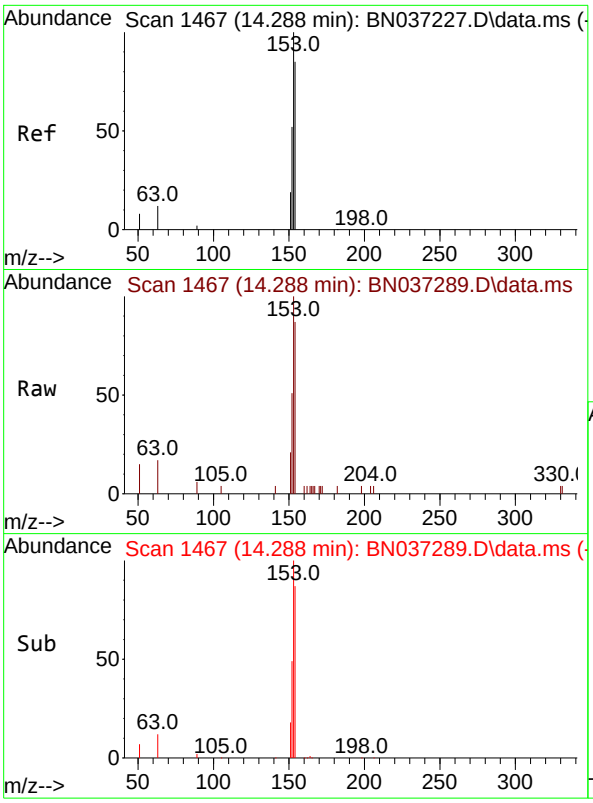


#16
Acenaphthylene
Concen: 0.388 ng
RT: 13.935 min Scan# 1434
Delta R.T. -0.011 min
Lab File: BN037289.D
Acq: 16 Jun 2025 13:53

Tgt Ion:152 Resp: 2517

Ion	Ratio	Lower	Upper
152	100		
151	20.6	15.7	23.5
153	13.2	10.7	16.1



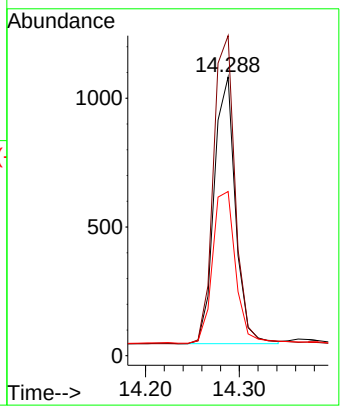


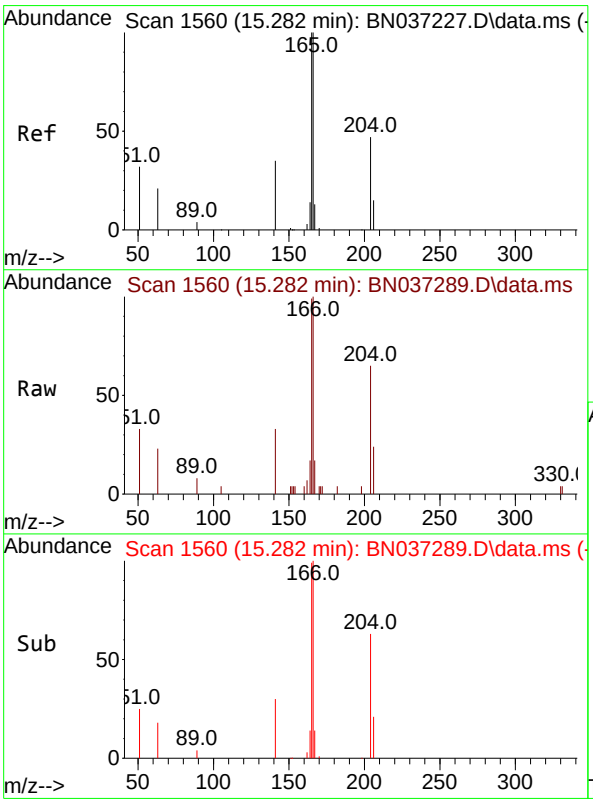
#17
Acenaphthene
Concen: 0.389 ng
RT: 14.288 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037289.D
Acq: 16 Jun 2025 13:53

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:154 Resp: 1632

Ion	Ratio	Lower	Upper
154	100		
153	119.7	94.6	141.8
152	62.4	49.6	74.4

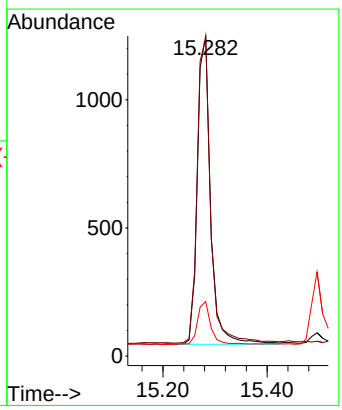


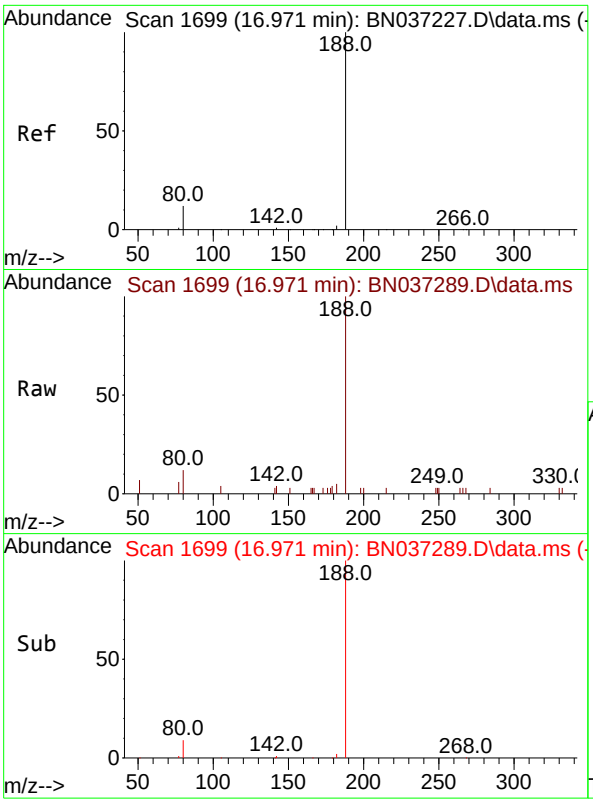


#18
Fluorene
Concen: 0.394 ng
RT: 15.282 min Scan# 1560
Delta R.T. 0.000 min
Lab File: BN037289.D
Acq: 16 Jun 2025 13:53

Tgt Ion:166 Resp: 2119

Ion	Ratio	Lower	Upper
166	100		
165	99.8	79.8	119.6
167	14.2	10.8	16.2



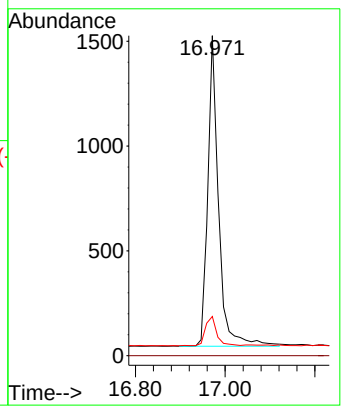


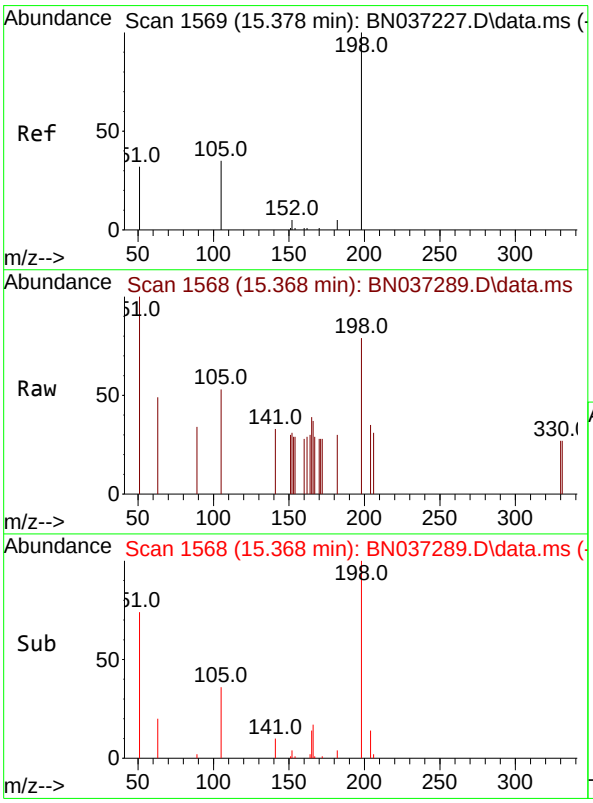
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037289.D
Acq: 16 Jun 2025 13:53

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:188 Resp: 2457

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.2	12.2	18.4

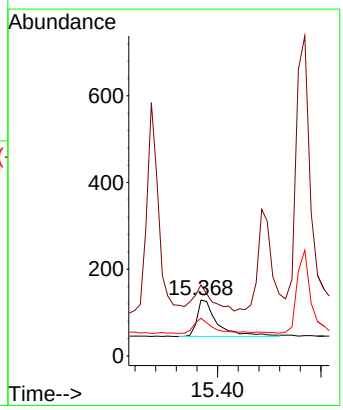


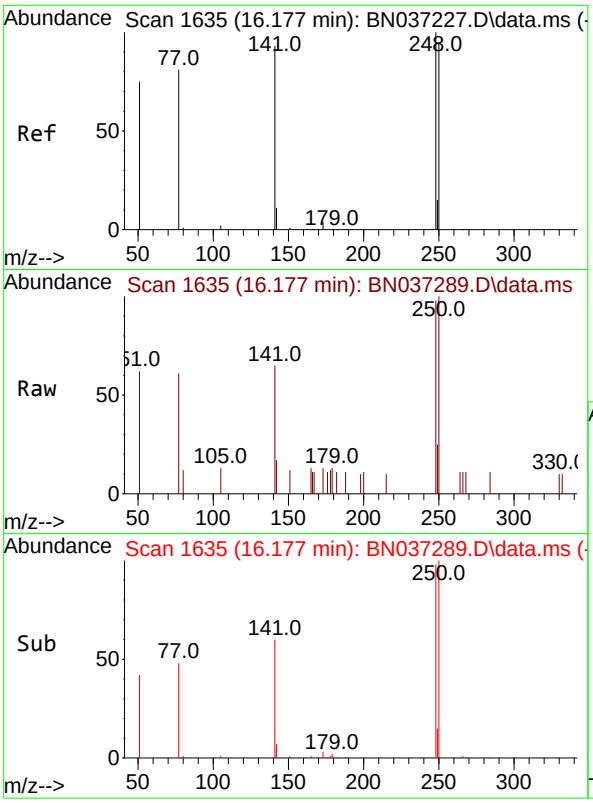


#20
4,6-Dinitro-2-methylphenol
Concen: 0.476 ng
RT: 15.368 min Scan# 1568
Delta R.T. -0.010 min
Lab File: BN037289.D
Acq: 16 Jun 2025 13:53

Tgt Ion:198 Resp: 232

Ion	Ratio	Lower	Upper
198	100		
51	127.1	111.2	166.8
105	67.4	54.0	81.0



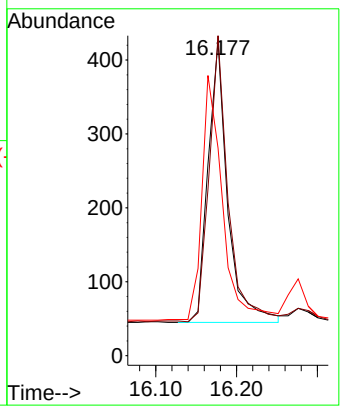


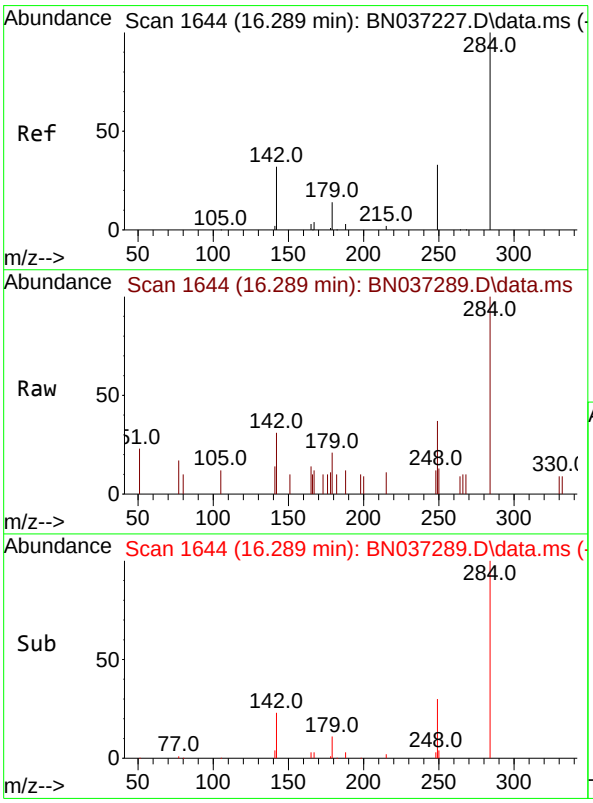
#21
4-Bromophenyl-phenylether
Concen: 0.400 ng
RT: 16.177 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN037289.D
Acq: 16 Jun 2025 13:53

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:248 Resp: 641

Ion	Ratio	Lower	Upper
248	100		
250	101.6	76.8	115.2
141	66.0	75.6	113.4#

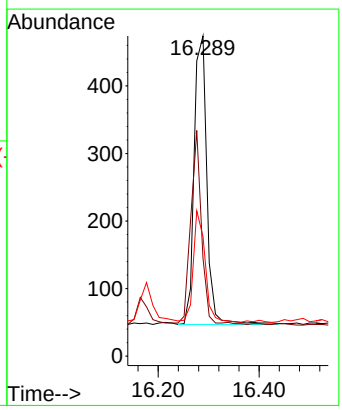


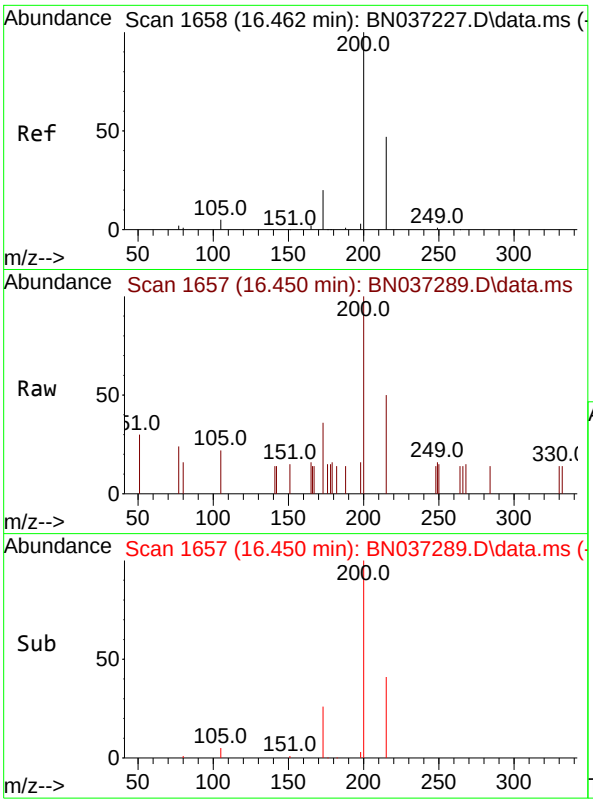


#22
Hexachlorobenzene
Concen: 0.404 ng
RT: 16.289 min Scan# 1644
Delta R.T. 0.000 min
Lab File: BN037289.D
Acq: 16 Jun 2025 13:53

Tgt Ion:284 Resp: 750

Ion	Ratio	Lower	Upper
284	100		
142	57.5	43.8	65.6
249	35.6	28.4	42.6



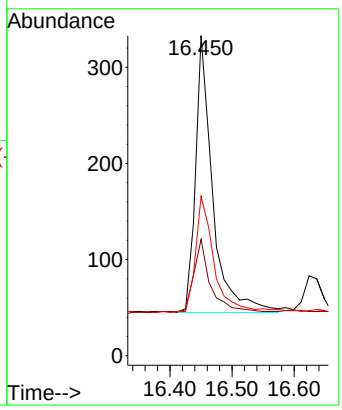


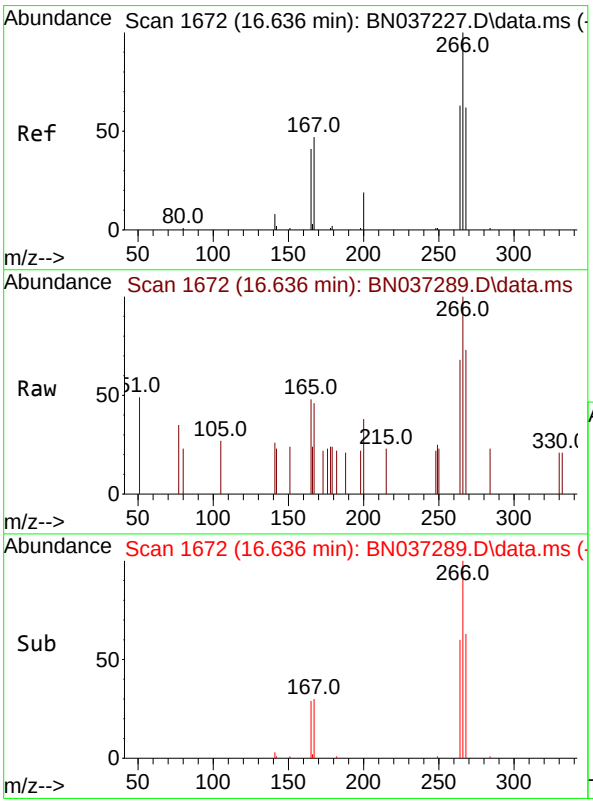
#23
Atrazine
Concen: 0.387 ng
RT: 16.450 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037289.D
Acq: 16 Jun 2025 13:53

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:200 Resp: 552

Ion	Ratio	Lower	Upper
200	100		
173	36.3	25.1	37.7
215	49.8	43.7	65.5

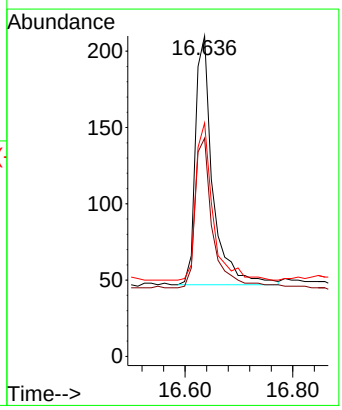


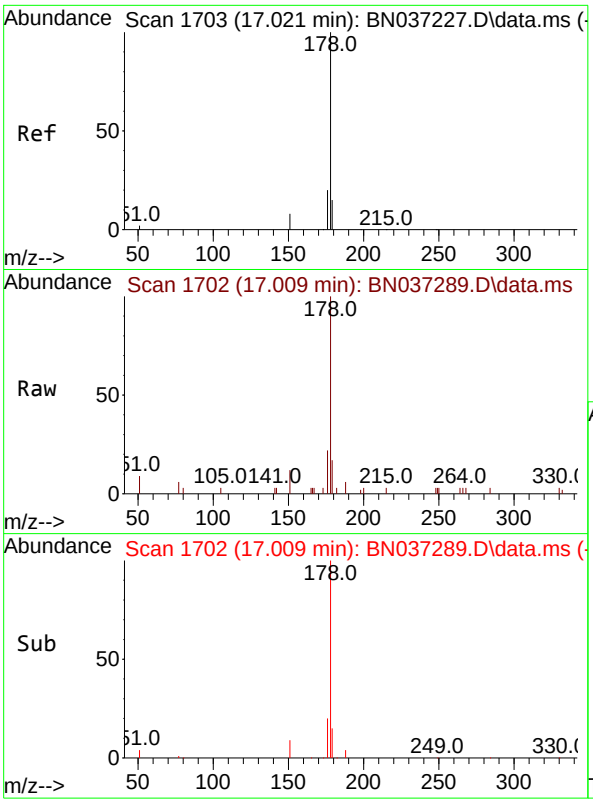


#24
Pentachlorophenol
Concen: 0.400 ng
RT: 16.636 min Scan# 1672
Delta R.T. 0.000 min
Lab File: BN037289.D
Acq: 16 Jun 2025 13:53

Tgt Ion:266 Resp: 364

Ion	Ratio	Lower	Upper
266	100		
264	61.3	49.2	73.8
268	62.9	53.4	80.2



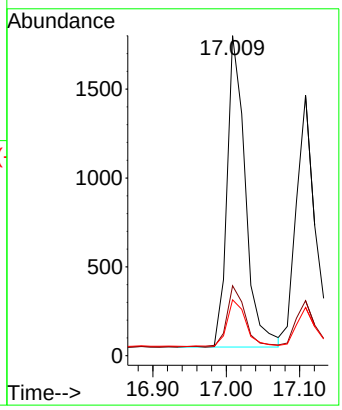


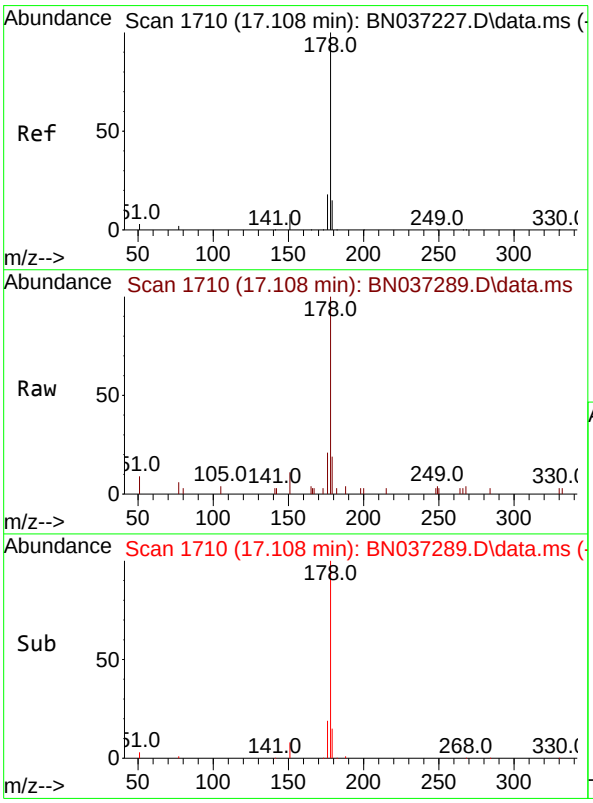
#25
Phenanthrene
Concen: 0.388 ng
RT: 17.009 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037289.D
Acq: 16 Jun 2025 13:53

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:178 Resp: 3022

Ion	Ratio	Lower	Upper
178	100		
176	19.8	16.3	24.5
179	15.6	12.6	18.8

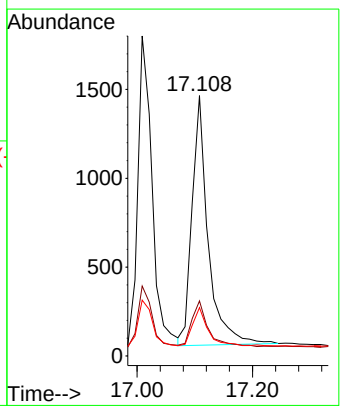


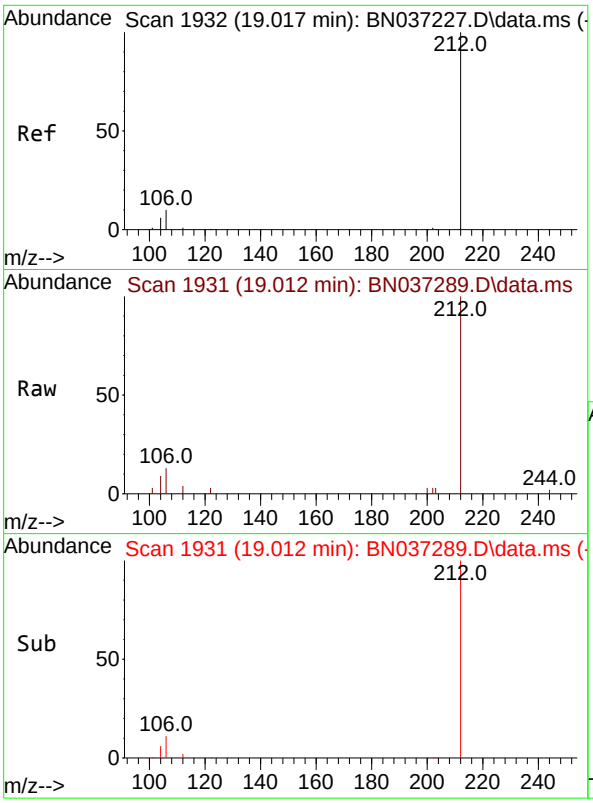


#26
Anthracene
Concen: 0.382 ng
RT: 17.108 min Scan# 1710
Delta R.T. 0.000 min
Lab File: BN037289.D
Acq: 16 Jun 2025 13:53

Tgt Ion:178 Resp: 2722

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.1	22.7
179	14.6	12.4	18.6



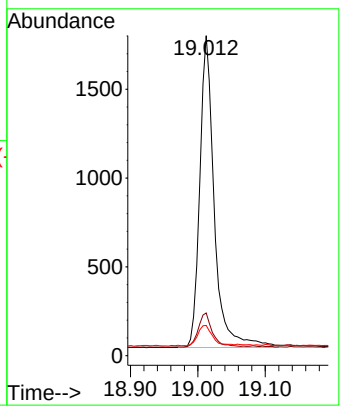


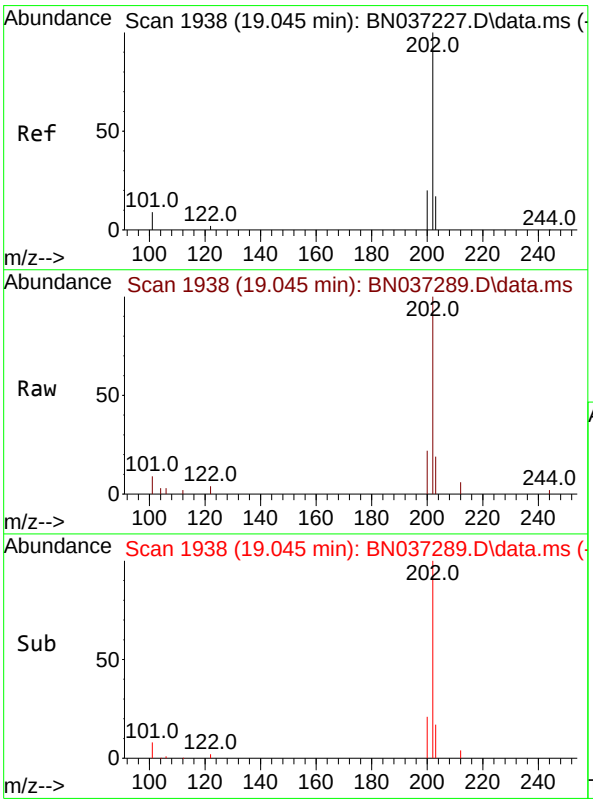
#27
Fluoranthene-d10
Concen: 0.409 ng
RT: 19.012 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN037289.D
Acq: 16 Jun 2025 13:53

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:212 Resp: 2626

Ion	Ratio	Lower	Upper
212	100		
106	10.5	9.3	13.9
104	6.7	5.7	8.5

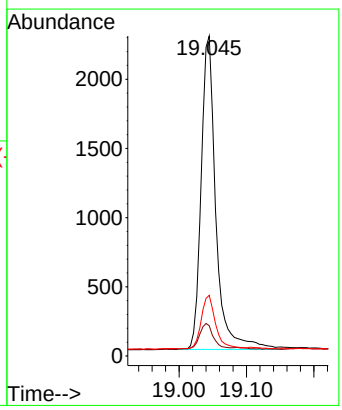


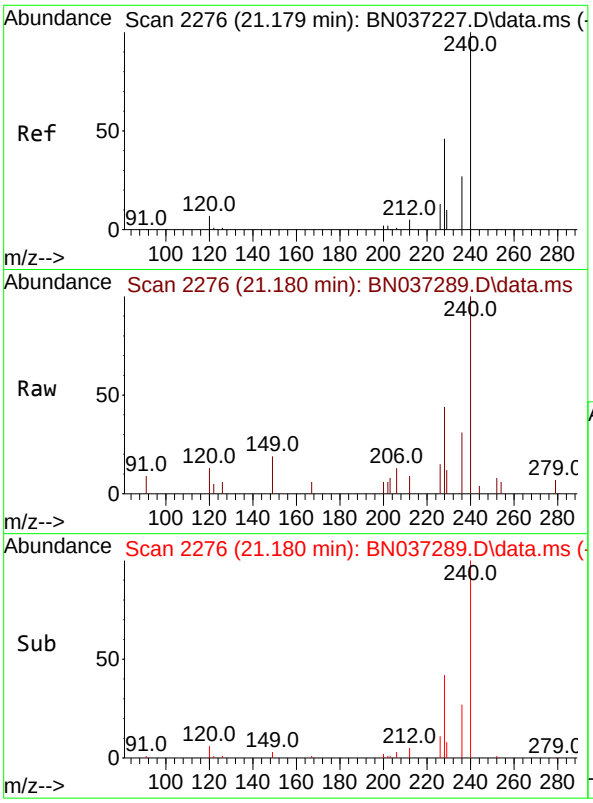


#28
Fluoranthene
Concen: 0.376 ng
RT: 19.045 min Scan# 1938
Delta R.T. 0.000 min
Lab File: BN037289.D
Acq: 16 Jun 2025 13:53

Tgt Ion:202 Resp: 3429

Ion	Ratio	Lower	Upper
202	100		
101	8.0	7.1	10.7
203	16.6	13.0	19.6



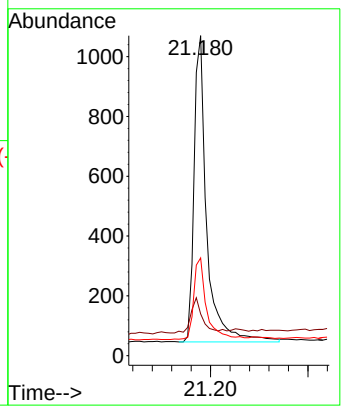


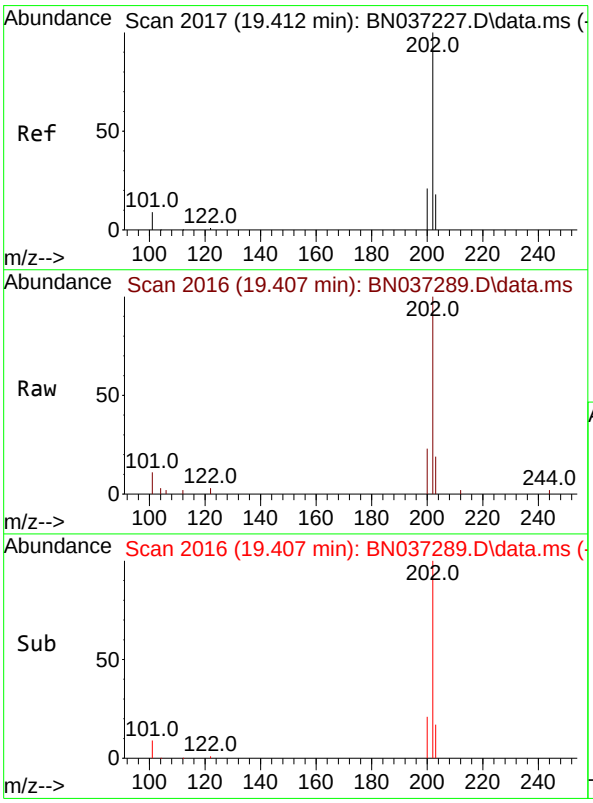
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.180 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037289.D
Acq: 16 Jun 2025 13:53

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:240 Resp: 1850

Ion	Ratio	Lower	Upper
240	100		
120	13.1	11.3	16.9
236	30.6	24.4	36.6

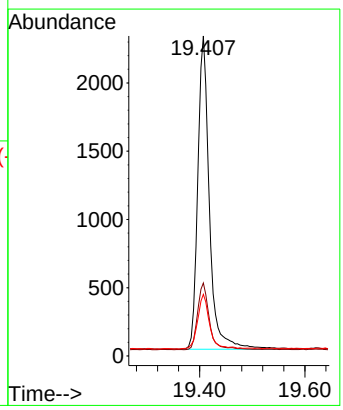


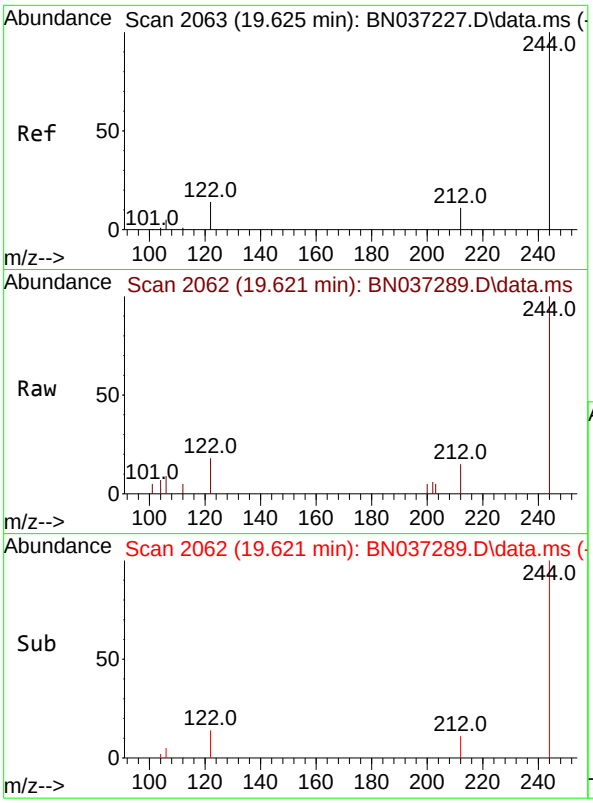


#30
Pyrene
Concen: 0.405 ng
RT: 19.407 min Scan# 2016
Delta R.T. -0.005 min
Lab File: BN037289.D
Acq: 16 Jun 2025 13:53

Tgt Ion:202 Resp: 3525

Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.2	25.8
203	17.8	14.3	21.5



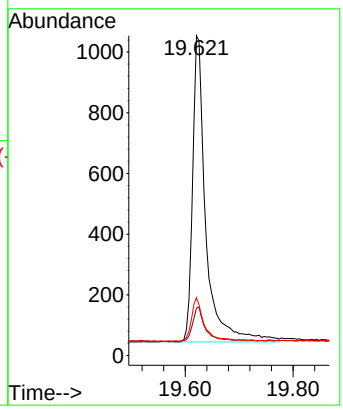


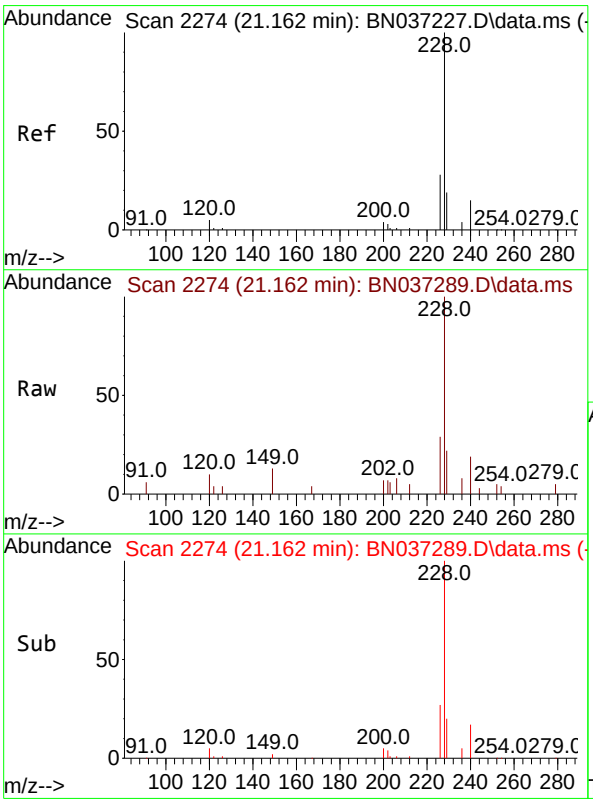
#31
Terphenyl-d14
Concen: 0.412 ng
RT: 19.621 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN037289.D
Acq: 16 Jun 2025 13:53

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:244 Resp: 1723

Ion	Ratio	Lower	Upper
244	100		
212	14.8	12.2	18.2
122	18.1	14.3	21.5

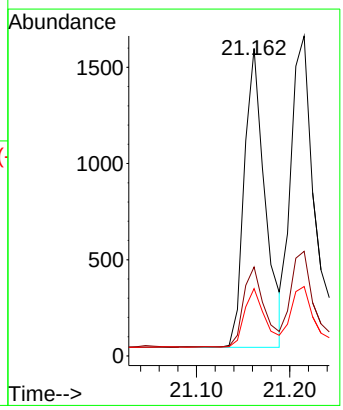


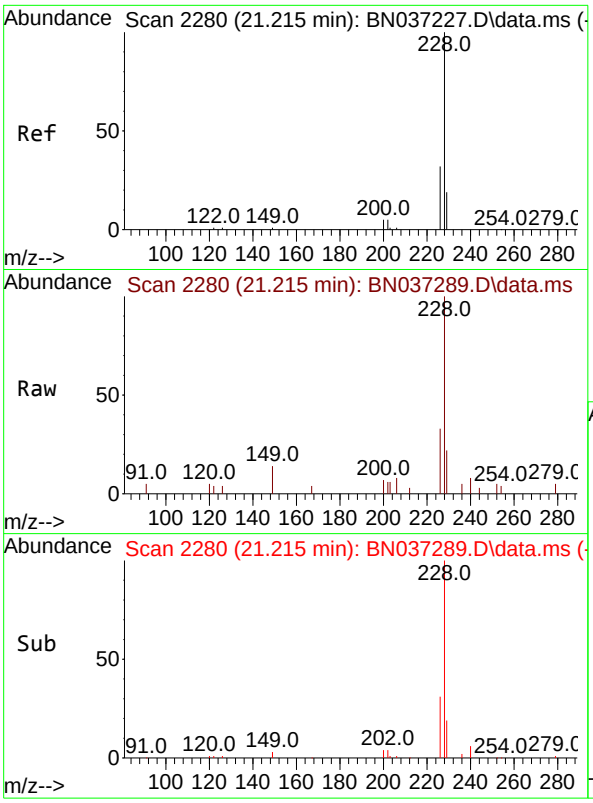


#32
Benzo(a)anthracene
Concen: 0.386 ng
RT: 21.162 min Scan# 2274
Delta R.T. 0.000 min
Lab File: BN037289.D
Acq: 16 Jun 2025 13:53

Tgt Ion:228 Resp: 2410

Ion	Ratio	Lower	Upper
228	100		
226	28.9	23.8	35.8
229	21.9	17.0	25.4



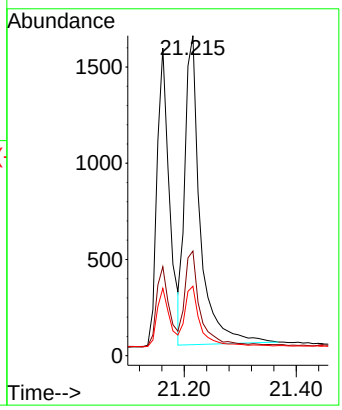


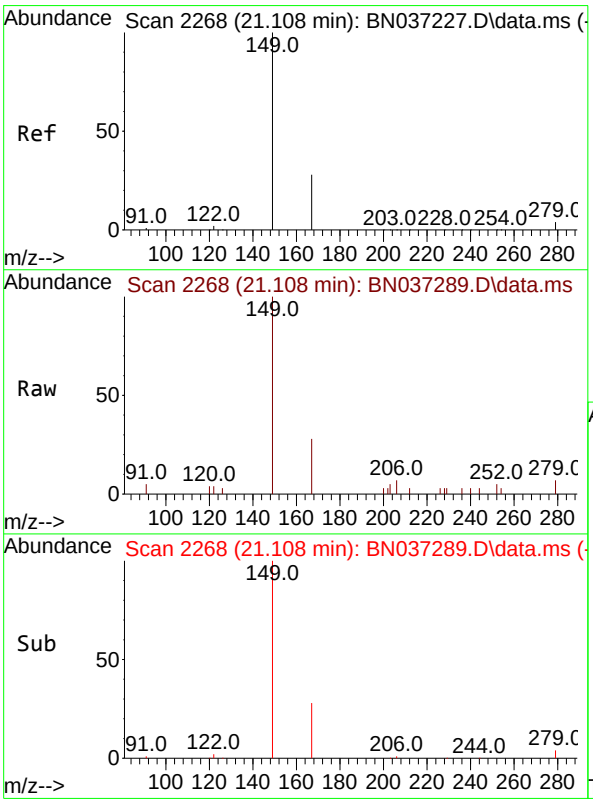
#33
Chrysene
Concen: 0.394 ng
RT: 21.215 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037289.D
Acq: 16 Jun 2025 13:53

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:228 Resp: 3068

Ion	Ratio	Lower	Upper
228	100		
226	32.7	25.8	38.6
229	21.7	17.0	25.4

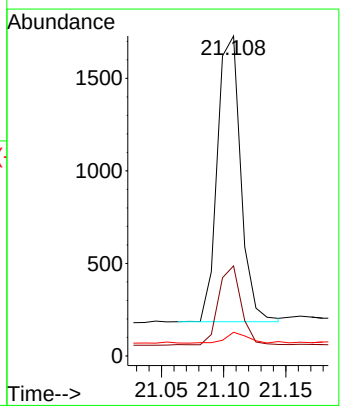


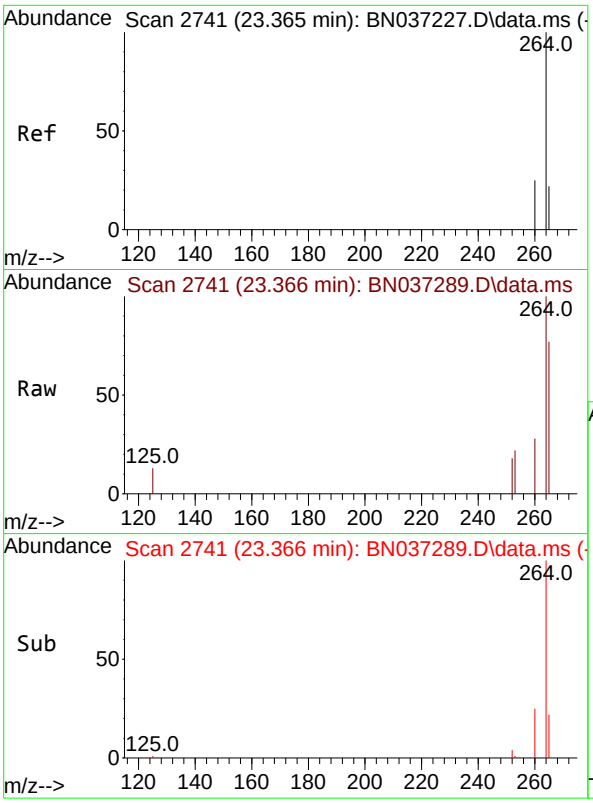


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.436 ng
RT: 21.108 min Scan# 2268
Delta R.T. 0.000 min
Lab File: BN037289.D
Acq: 16 Jun 2025 13:53

Tgt Ion:149 Resp: 2027

Ion	Ratio	Lower	Upper
149	100		
167	26.8	21.3	31.9
279	4.0	3.3	4.9



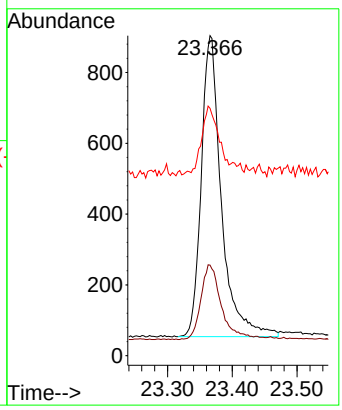


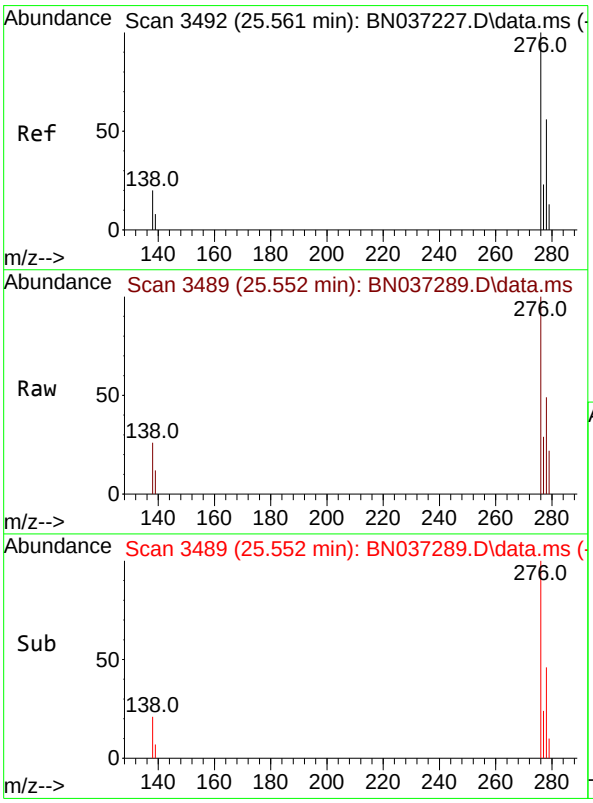
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.366 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037289.D
Acq: 16 Jun 2025 13:53

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:264 Resp: 1831

Ion	Ratio	Lower	Upper
264	100		
260	28.3	22.8	34.2
265	77.3	66.4	99.6

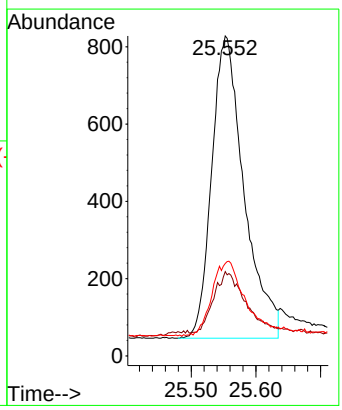


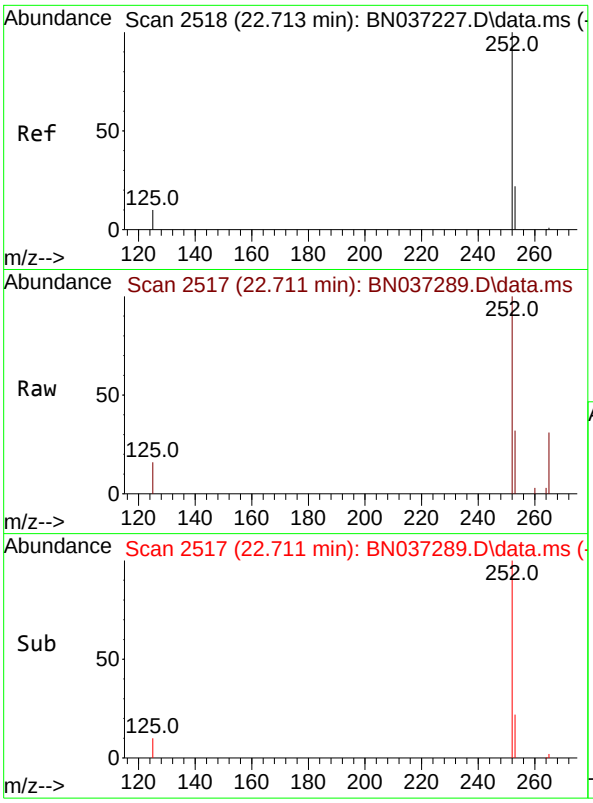


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.367 ng
RT: 25.552 min Scan# 3489
Delta R.T. -0.009 min
Lab File: BN037289.D
Acq: 16 Jun 2025 13:53

Tgt Ion:276 Resp: 2713

Ion	Ratio	Lower	Upper
276	100		
138	19.8	16.8	25.2
277	25.9	19.5	29.3



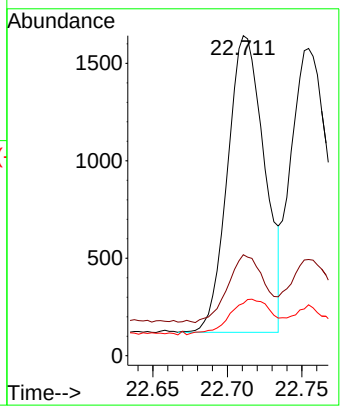


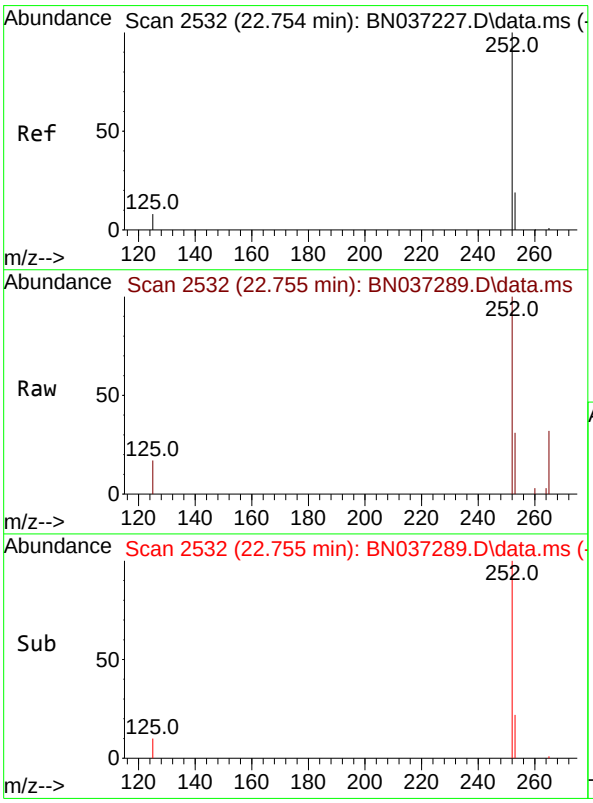
#37
Benzo(b)fluoranthene
Concen: 0.393 ng
RT: 22.711 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN037289.D
Acq: 16 Jun 2025 13:53

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:252 Resp: 2629

Ion	Ratio	Lower	Upper
252	100		
253	31.5	24.9	37.3
125	16.4	12.9	19.3

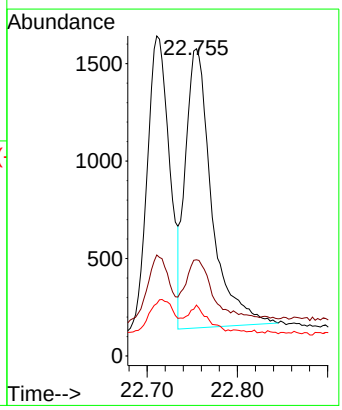


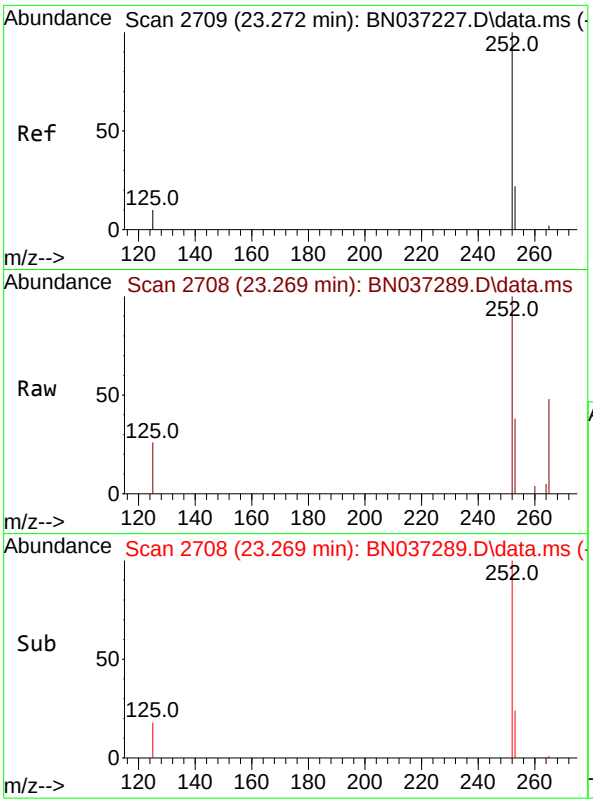


#38
Benzo(k)fluoranthene
Concen: 0.375 ng
RT: 22.755 min Scan# 2532
Delta R.T. 0.000 min
Lab File: BN037289.D
Acq: 16 Jun 2025 13:53

Tgt Ion:252 Resp: 2896

Ion	Ratio	Lower	Upper
252	100		
253	31.3	24.6	37.0
125	16.6	13.4	20.2



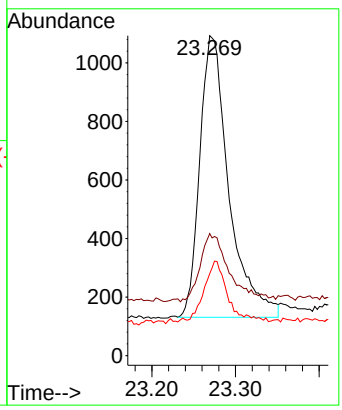


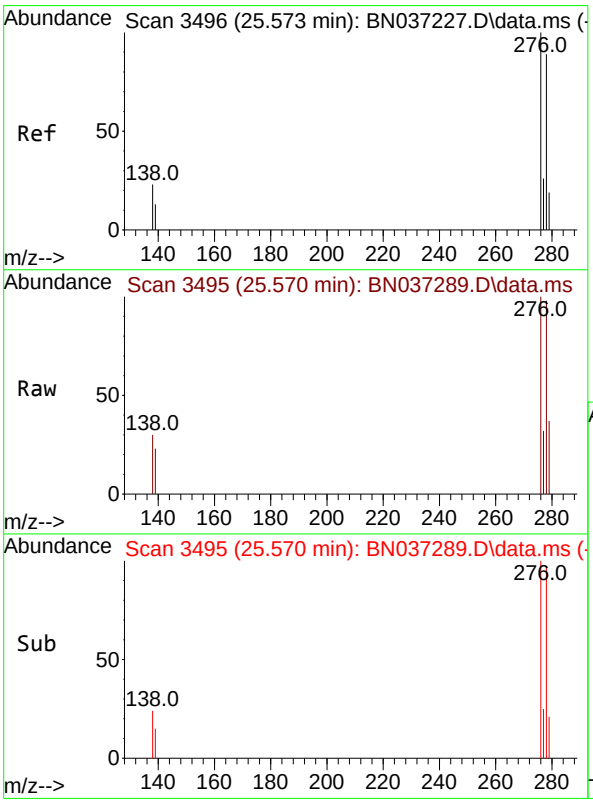
#39
Benzo(a)pyrene
Concen: 0.387 ng
RT: 23.269 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN037289.D
Acq: 16 Jun 2025 13:53

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:252 Resp: 2331

Ion	Ratio	Lower	Upper
252	100		
253	38.2	29.4	44.2
125	25.6	16.2	24.2#

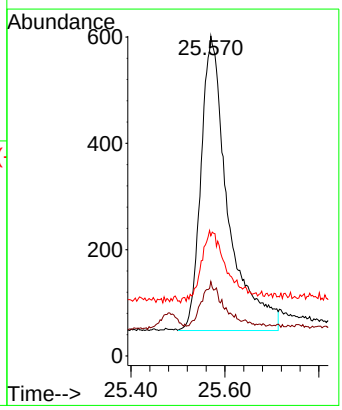


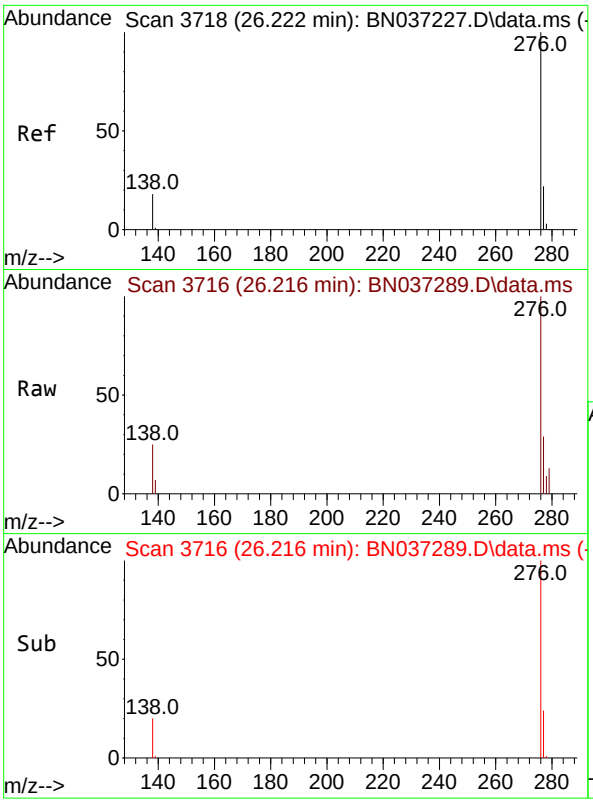


#40
Dibenzo(a,h)anthracene
Concen: 0.393 ng
RT: 25.570 min Scan# 3495
Delta R.T. -0.003 min
Lab File: BN037289.D
Acq: 16 Jun 2025 13:53

Tgt Ion:278 Resp: 2205

Ion	Ratio	Lower	Upper
278	100		
139	23.3	17.8	26.6
279	37.5	31.3	46.9



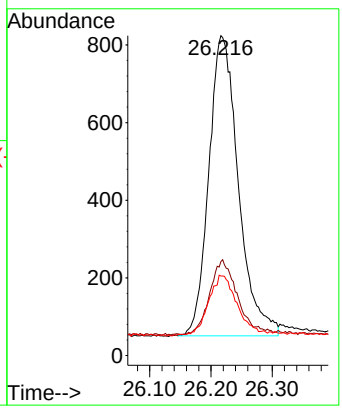


#41
Benzo(g,h,i)perylene
Concen: 0.379 ng
RT: 26.216 min Scan# 3
Delta R.T. -0.006 min
Lab File: BN037289.D
Acq: 16 Jun 2025 13:53

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:276 Resp: 2595

Ion	Ratio	Lower	Upper
276	100		
277	29.4	22.0	33.0
138	24.9	18.4	27.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061625\
Data File : BN037289.D
Acq On : 16 Jun 2025 13:53
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Jun 16 14:25:47 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 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	78	0.00
2		1,4-Dioxane	0.549	0.534	2.7	79	0.00
3		n-Nitrosodimethylamine	1.250	1.378	-10.2	84	0.00
4	S	2-Fluorophenol	0.982	0.975	0.7	81	0.00
5	S	Phenol-d6	1.035	1.052	-1.6	85	0.00
6		bis(2-Chloroethyl)ether	0.927	1.001	-8.0	90	0.00
7	I	Naphthalene-d8	1.000	1.000	0.0	80	-0.01
8	S	Nitrobenzene-d5	0.395	0.419	-6.1	87	-0.01
9		Naphthalene	1.158	1.123	3.0	79	-0.01
10		Hexachlorobutadiene	0.282	0.296	-5.0	78	0.00
11	SURR	2-Methylnaphthalene-d10	0.537	0.562	-4.7	81	0.00
12		2-Methylnaphthalene	0.704	0.703	0.1	80	0.00
13	I	Acenaphthene-d10	1.000	1.000	0.0	76	0.00
14	S	2,4,6-Tribromophenol	0.166	0.186	-12.0	83	-0.01
15	S	2-Fluorobiphenyl	1.681	1.752	-4.2	79	0.00
16		Acenaphthylene	1.960	1.900	3.1	77	-0.01
17		Acenaphthene	1.265	1.232	2.6	76	0.00
18		Fluorene	1.625	1.599	1.6	77	0.00
19	I	Phenanthrene-d10	1.000	1.000	0.0	77	0.00
20		4,6-Dinitro-2-methylphenol	0.092	0.094	-2.2	110	-0.01
21		4-Bromophenyl-phenylether	0.261	0.261	0.0	82	0.00
22		Hexachlorobenzene	0.302	0.305	-1.0	75	0.00
23		Atrazine	0.232	0.225	3.0	78	-0.01
24		Pentachlorophenol	0.148	0.148	0.0	92	0.00
25		Phenanthrene	1.269	1.230	3.1	80	-0.01
26		Anthracene	1.161	1.108	4.6	79	0.00
27	SURR	Fluoranthene-d10	1.046	1.069	-2.2	78	0.00
28		Fluoranthene	1.485	1.396	6.0	76	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	81	0.00
30		Pyrene	1.881	1.905	-1.3	79	0.00
31	S	Terphenyl-d14	0.904	0.931	-3.0	80	0.00
32		Benzo(a)anthracene	1.351	1.303	3.6	86	0.00
33		Chrysene	1.683	1.658	1.5	79	0.00
34		Bis(2-ethylhexyl)phthalate	1.006	1.096	-8.9	87	0.00
35	I	Perylene-d12	1.000	1.000	0.0	85	0.00
36		Indeno(1,2,3-cd)pyrene	1.613	1.482	8.1	84	0.00
37		Benzo(b)fluoranthene	1.463	1.436	1.8	89	0.00
38		Benzo(k)fluoranthene	1.689	1.582	6.3	83	0.00
39	C	Benzo(a)pyrene	1.316	1.273	3.3	88	0.00
40		Dibenzo(a,h)anthracene	1.227	1.204	1.9	98	0.00
41		Benzo(g,h,i)perylene	1.496	1.417	5.3	84	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061625\
Data File : BN037289.D
Acq On : 16 Jun 2025 13:53
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Jun 16 14:25:47 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 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	0.400	0.400	0.0	78	0.00
2		1,4-Dioxane	0.400	0.389	2.8	79	0.00
3		n-Nitrosodimethylamine	0.400	0.441	-10.2	84	0.00
4	S	2-Fluorophenol	0.400	0.397	0.8	81	0.00
5	S	Phenol-d6	0.400	0.406	-1.5	85	0.00
6		bis(2-Chloroethyl)ether	0.400	0.432	-8.0	90	0.00
7	I	Naphthalene-d8	0.400	0.400	0.0	80	-0.01
8	S	Nitrobenzene-d5	0.400	0.424	-6.0	87	-0.01
9		Naphthalene	0.400	0.388	3.0	79	-0.01
10		Hexachlorobutadiene	0.400	0.420	-5.0	78	0.00
11	SURR	2-Methylnaphthalene-d10	0.400	0.419	-4.7	81	0.00
12		2-Methylnaphthalene	0.400	0.399	0.3	80	0.00
13	I	Acenaphthene-d10	0.400	0.400	0.0	76	0.00
14	S	2,4,6-Tribromophenol	0.400	0.447	-11.7	83	-0.01
15	S	2-Fluorobiphenyl	0.400	0.417	-4.2	79	0.00
16		Acenaphthylene	0.400	0.388	3.0	77	-0.01
17		Acenaphthene	0.400	0.389	2.8	76	0.00
18		Fluorene	0.400	0.394	1.5	77	0.00
19	I	Phenanthrene-d10	0.400	0.400	0.0	77	0.00
20		4,6-Dinitro-2-methylphenol	0.400	0.476	-19.0	110	-0.01
21		4-Bromophenyl-phenylether	0.400	0.400	0.0	82	0.00
22		Hexachlorobenzene	0.400	0.404	-1.0	75	0.00
23		Atrazine	0.400	0.387	3.3	78	-0.01
24		Pentachlorophenol	0.400	0.400	0.0	92	0.00
25		Phenanthrene	0.400	0.388	3.0	80	-0.01
26		Anthracene	0.400	0.382	4.5	79	0.00
27	SURR	Fluoranthene-d10	0.400	0.409	-2.2	78	0.00
28		Fluoranthene	0.400	0.376	6.0	76	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	81	0.00
30		Pyrene	0.400	0.405	-1.3	79	0.00
31	S	Terphenyl-d14	0.400	0.412	-3.0	80	0.00
32		Benzo(a)anthracene	0.400	0.386	3.5	86	0.00
33		Chrysene	0.400	0.394	1.5	79	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.436	-9.0	87	0.00
35	I	Perylene-d12	0.400	0.400	0.0	85	0.00
36		Indeno(1,2,3-cd)pyrene	0.400	0.367	8.3	84	0.00
37		Benzo(b)fluoranthene	0.400	0.393	1.8	89	0.00
38		Benzo(k)fluoranthene	0.400	0.375	6.3	83	0.00
39	C	Benzo(a)pyrene	0.400	0.387	3.3	88	0.00
40		Dibenzo(a,h)anthracene	0.400	0.393	1.8	98	0.00
41		Benzo(g,h,i)perylene	0.400	0.379	5.3	84	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

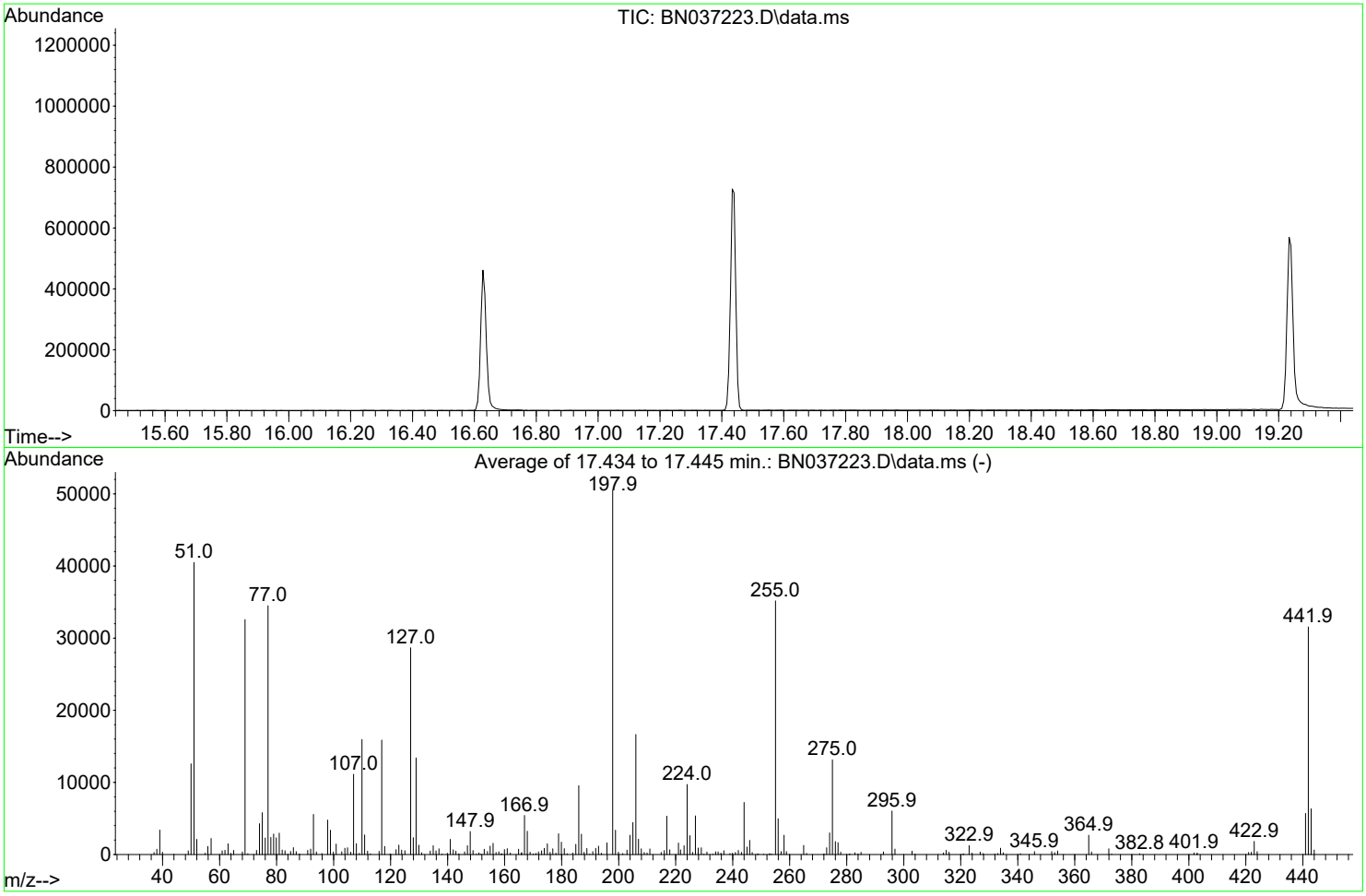
QC SAMPLE DATA

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037223.D
Acq On : 13 Jun 2025 11:34
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Jun 19 02:50:12 2025



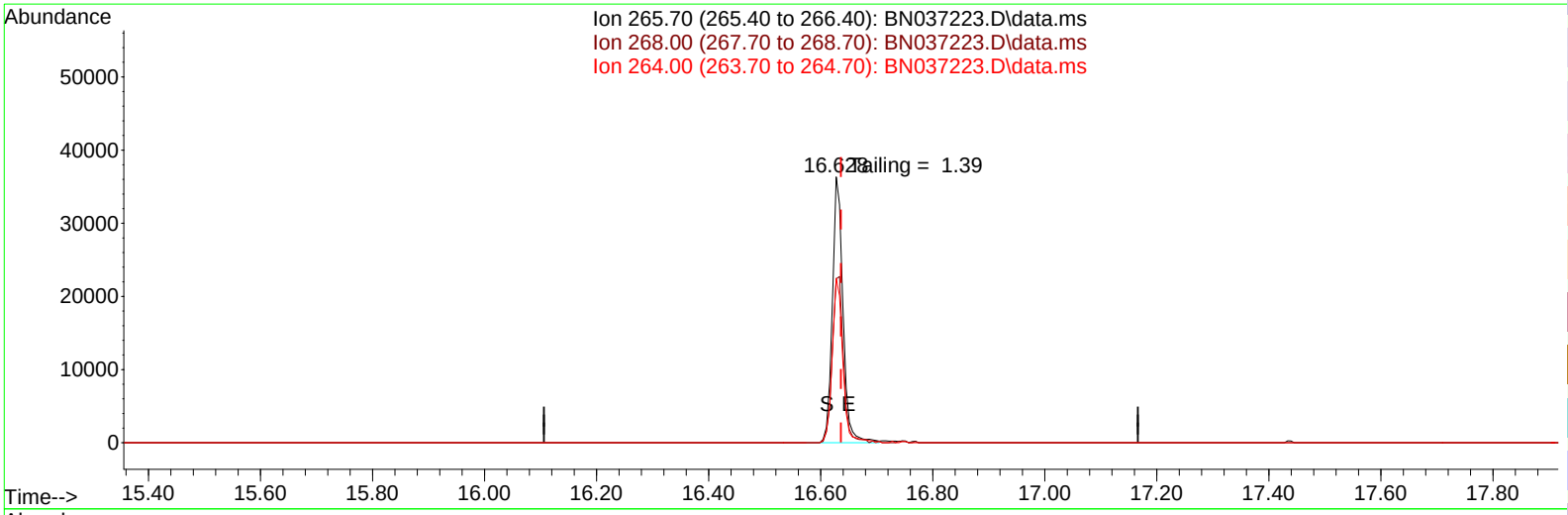
AutoFind: Scans 2473, 2474, 2475; Background Corrected with Scan 2466

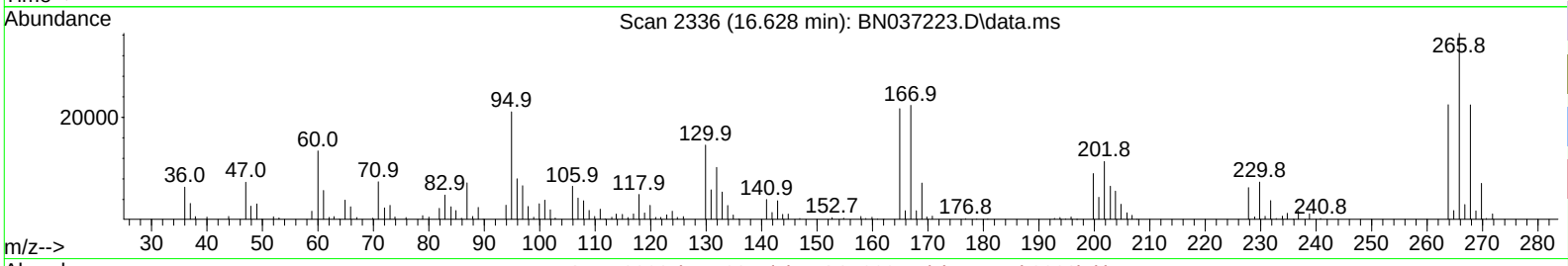
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
68	69	0.00	2	1.1	362	PASS
69	69	100	100	100.0	32573	PASS
70	69	0.00	2	0.4	132	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	50453	PASS
199	198	5	9	6.7	3367	PASS
365	198	1	100	5.3	2675	PASS
441	443	0.01	150	90.1	5714	PASS
442	442	100	100	100.0	31557	PASS
443	442	15	24	20.1	6344	PASS

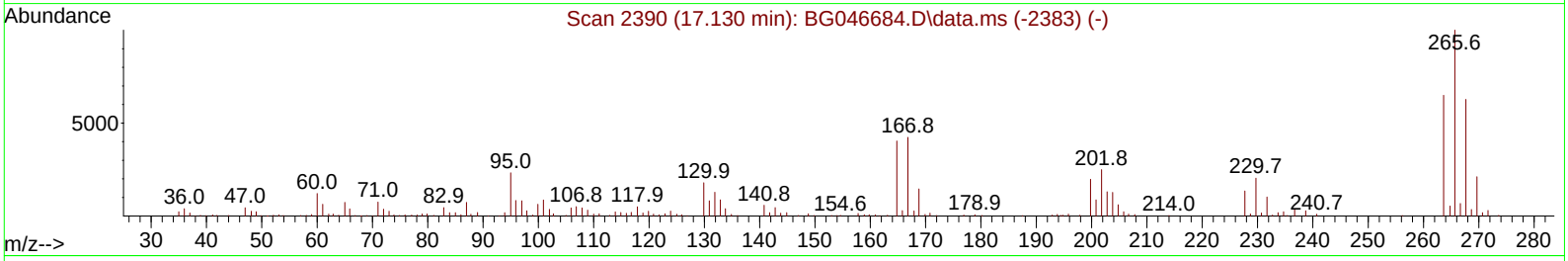
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037223.D
Acq On : 13 Jun 2025 11:34
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Jun 13 18:35:45 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jun 10 06:01:37 2025
Response via : Initial Calibration







TIC: BN037223.D\data.ms

(70) Pentachlorophenol (C)

16.628min (-0.008) 13765.31 ng

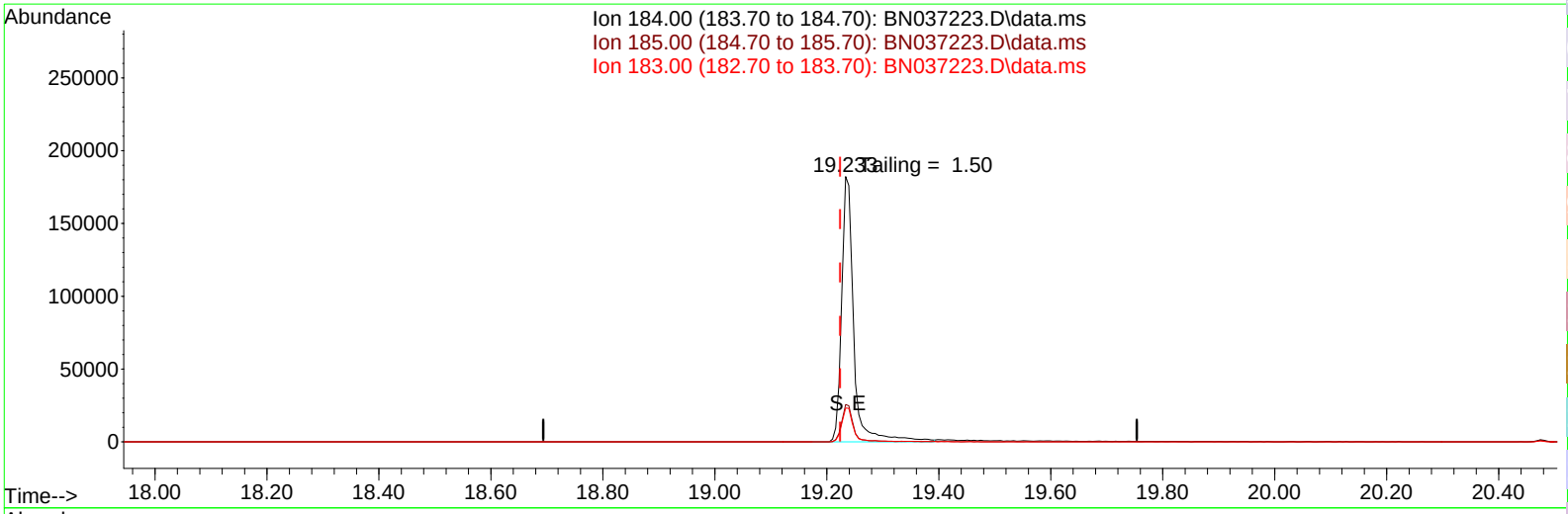
response 48504

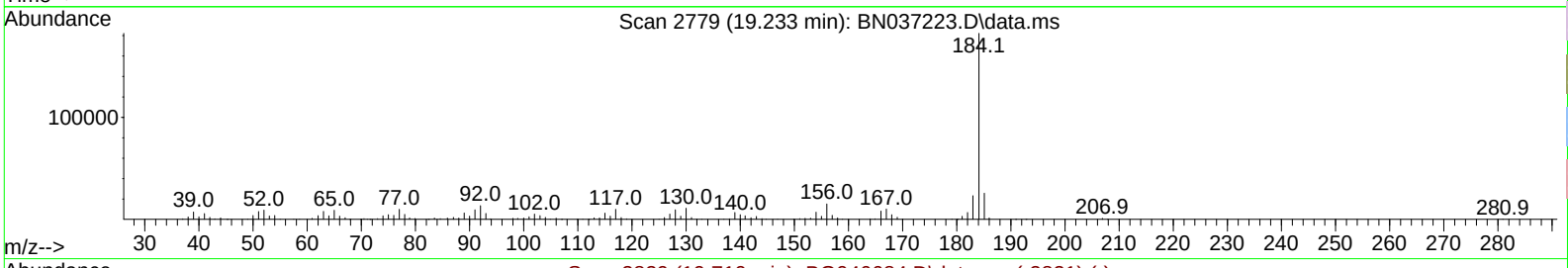
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	61.73
264.00	61.60	61.82
0.00	0.00	0.00

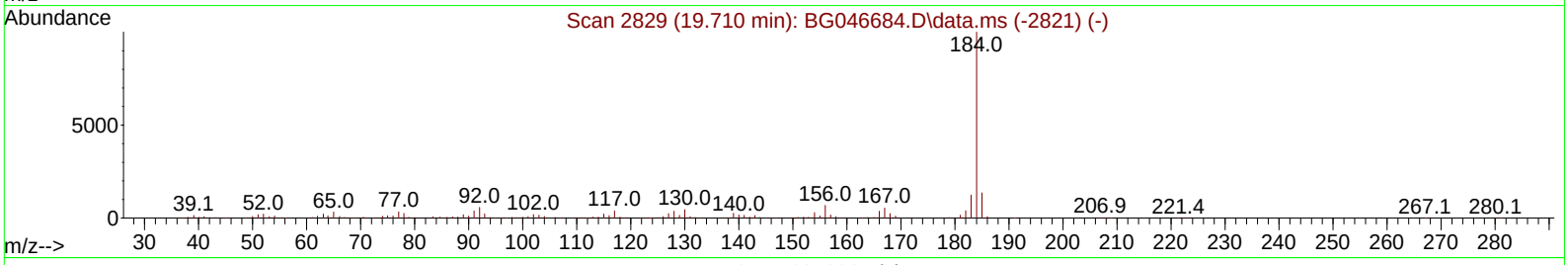
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037223.D
Acq On : 13 Jun 2025 11:34
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Jun 13 18:35:45 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jun 10 06:01:37 2025
Response via : Initial Calibration







TIC: BN037223.D\data.ms

(77) Benzidine

19.233min (+ 0.009) 0.00 ng

response 272616

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.12
183.00	13.20	12.75
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

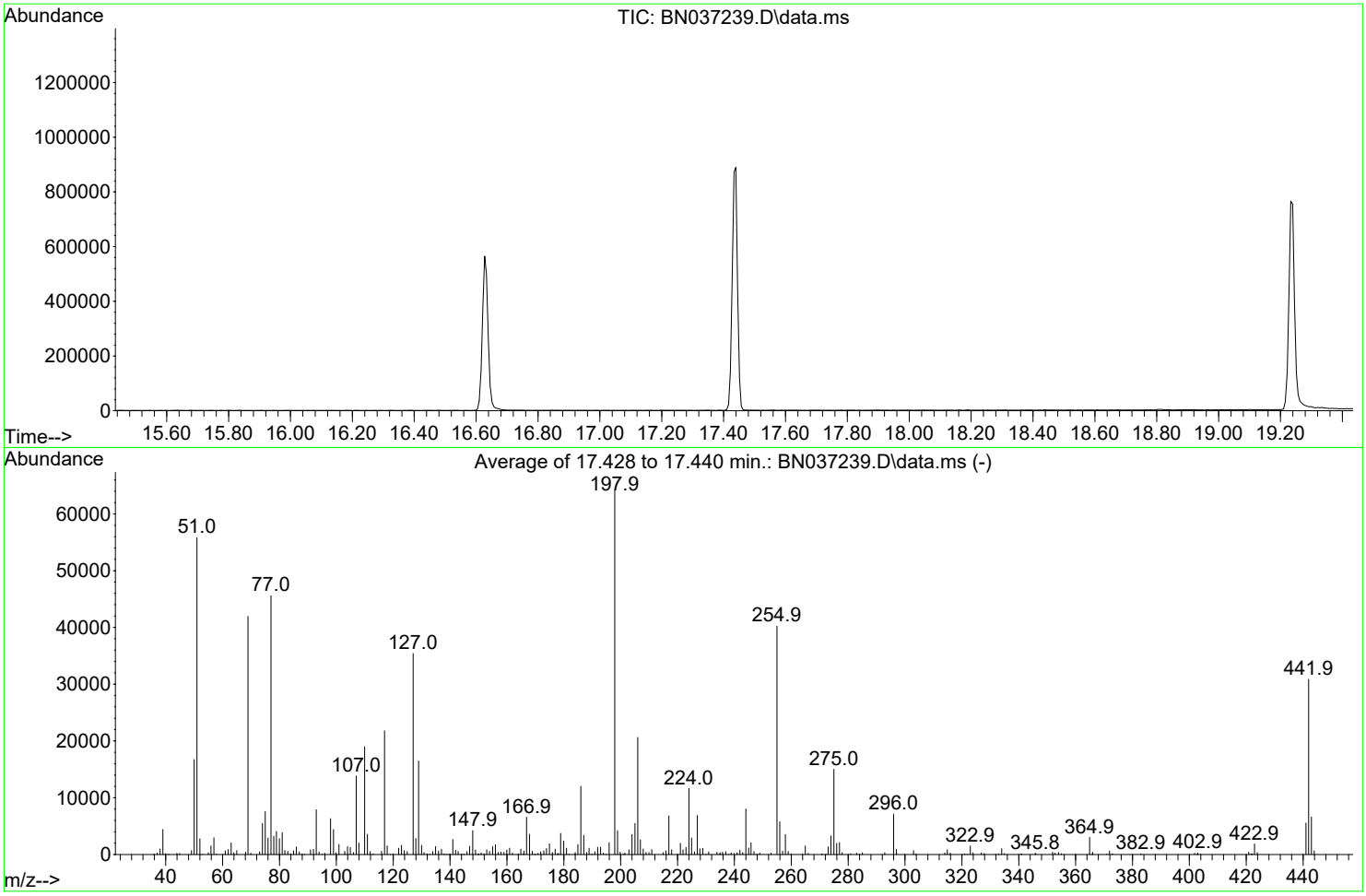
Date	Instrument Name	DFTPP Data File
6/13/2025	BNA_N	BN037223.D
Compound Name	**Response**	**Retention Time**
DDT	179828	20.475
DDD	1789	20.086
DDE	62	19.528
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
1851	181679	1.02

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037239.D
Acq On : 13 Jun 2025 23:16
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Jun 19 02:50:12 2025



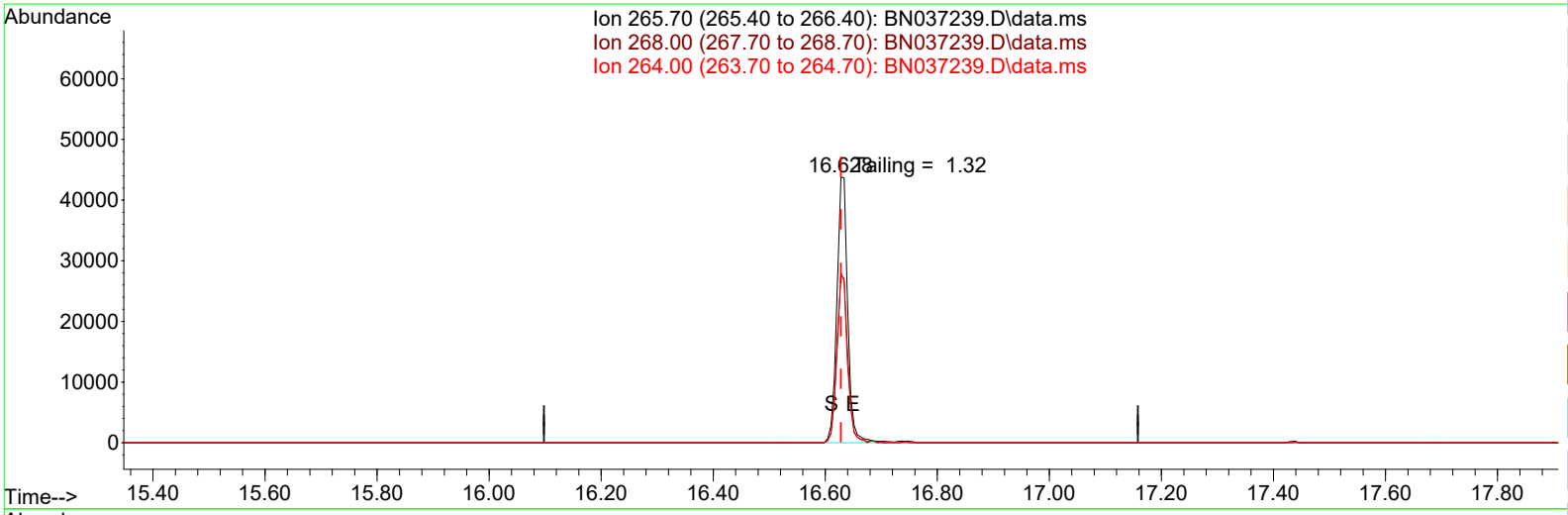
AutoFind: Scans 2472, 2473, 2474; Background Corrected with Scan 2466

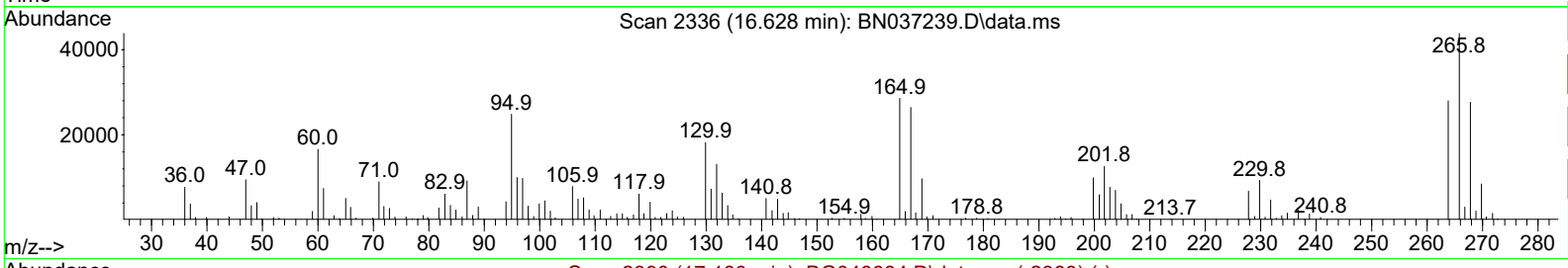
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
68	69	0.00	2	1.0	417	PASS
69	69	100	100	100.0	41957	PASS
70	69	0.00	2	0.6	239	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	64112	PASS
199	198	5	9	6.5	4172	PASS
365	198	1	100	4.7	3005	PASS
441	443	0.01	150	83.9	5553	PASS
442	442	100	100	100.0	30862	PASS
443	442	15	24	21.5	6621	PASS

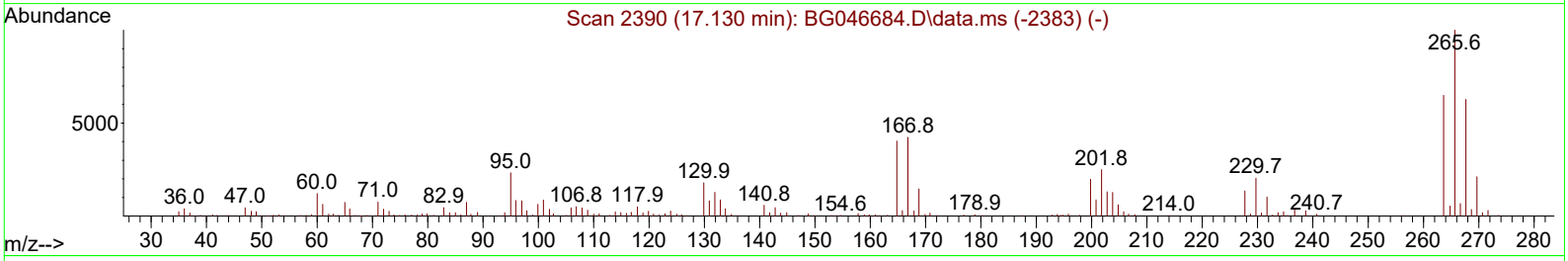
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037239.D
Acq On : 13 Jun 2025 23:16
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Jun 14 03:28:48 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Jun 14 03:28:35 2025
Response via : Initial Calibration







TIC: BN037239.D\data.ms

(70) Pentachlorophenol (C)

16.628min (0.000) 18785.64 ng

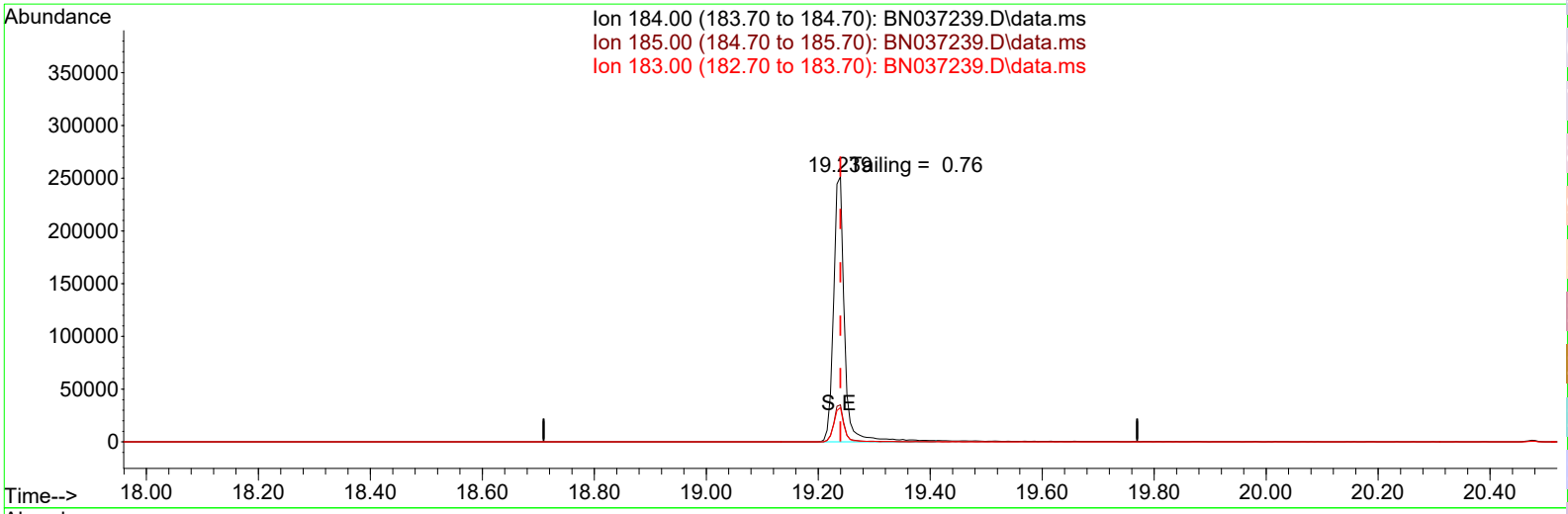
response 58970

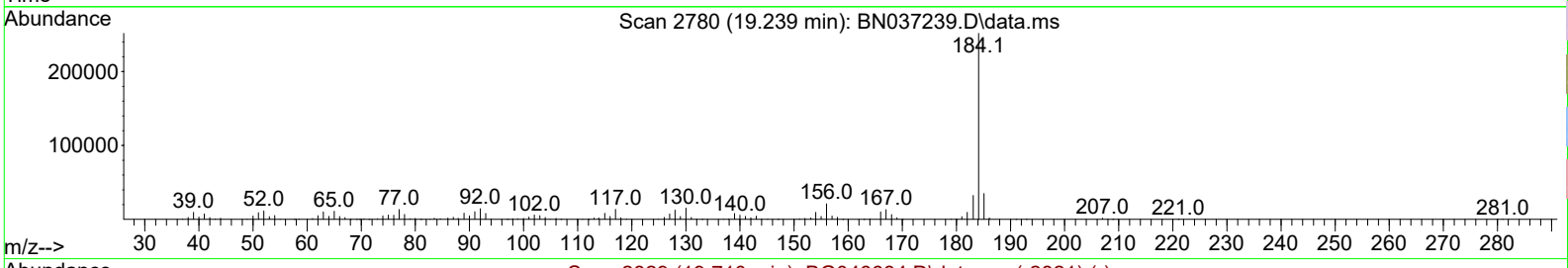
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	63.13
264.00	61.60	63.84
0.00	0.00	0.00

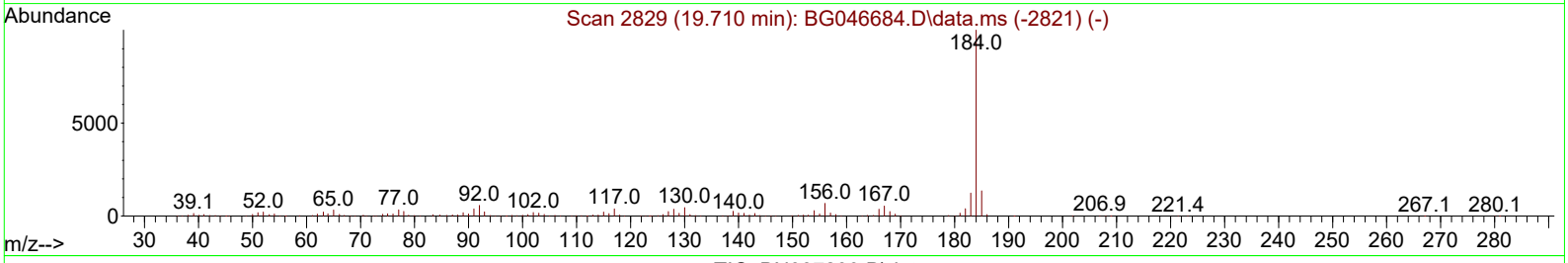
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037239.D
Acq On : 13 Jun 2025 23:16
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Jun 14 03:28:48 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Jun 14 03:28:35 2025
Response via : Initial Calibration







TIC: BN037239.D\data.ms

(77) Benzidine

19.239min (0.000) 0.00 ng

response 344668

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	13.97
183.00	13.20	12.95
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

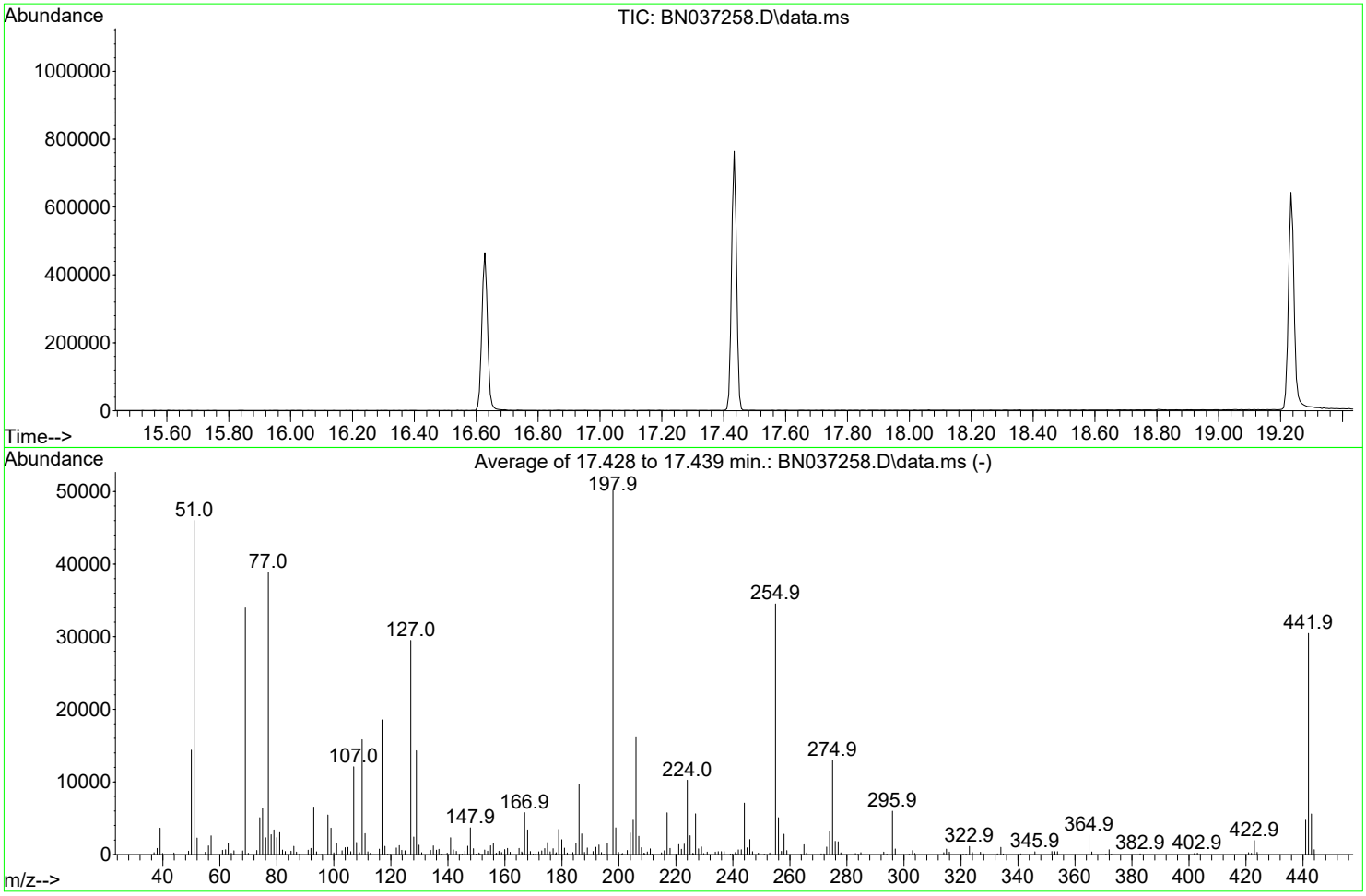
Date	Instrument Name	DFTPP Data File
6/13/2025	BNA_N	BN037239.D
Compound Name	**Response**	**Retention Time**
DDT	204788	20.475
DDD	3055	20.039
DDE	55	19.528
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
3110	207898	1.50

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037258.D
Acq On : 14 Jun 2025 12:44
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 37 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Jun 19 02:50:12 2025



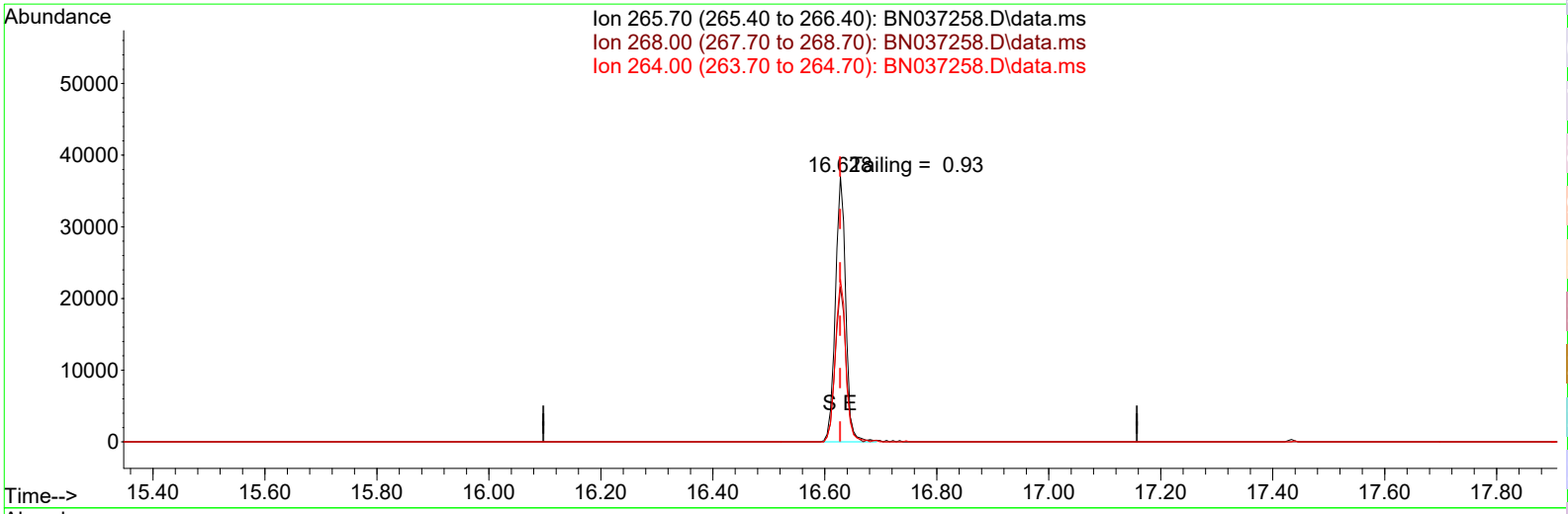
AutoFind: Scans 2472, 2473, 2474; Background Corrected with Scan 2466

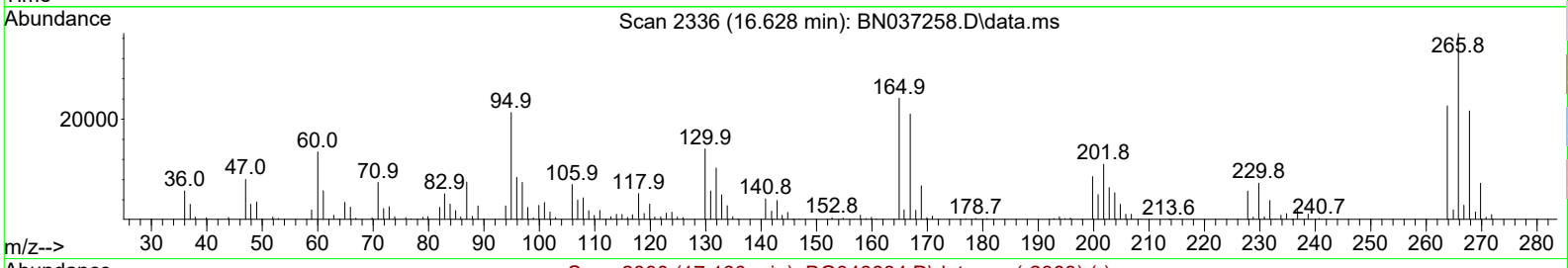
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
68	69	0.00	2	1.5	513	PASS
69	69	100	100	100.0	33968	PASS
70	69	0.00	2	0.6	187	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	50133	PASS
199	198	5	9	7.3	3674	PASS
365	198	1	100	5.4	2731	PASS
441	443	0.01	150	84.6	4726	PASS
442	442	100	100	100.0	30451	PASS
443	442	15	24	18.3	5584	PASS

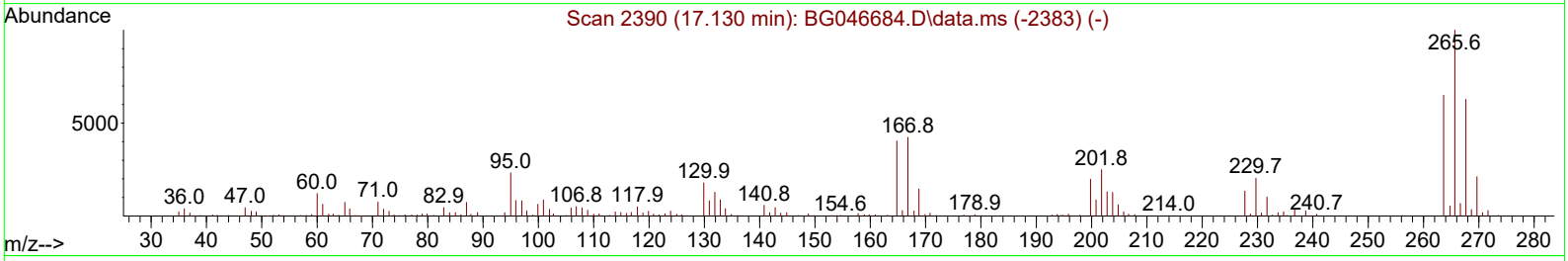
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037258.D
Acq On : 14 Jun 2025 12:44
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 37 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Jun 16 01:30:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jun 16 01:30:21 2025
Response via : Initial Calibration







TIC: BN037258.D\data.ms

(70) Pentachlorophenol (C)

16.628min (0.000) 18255.95 ng

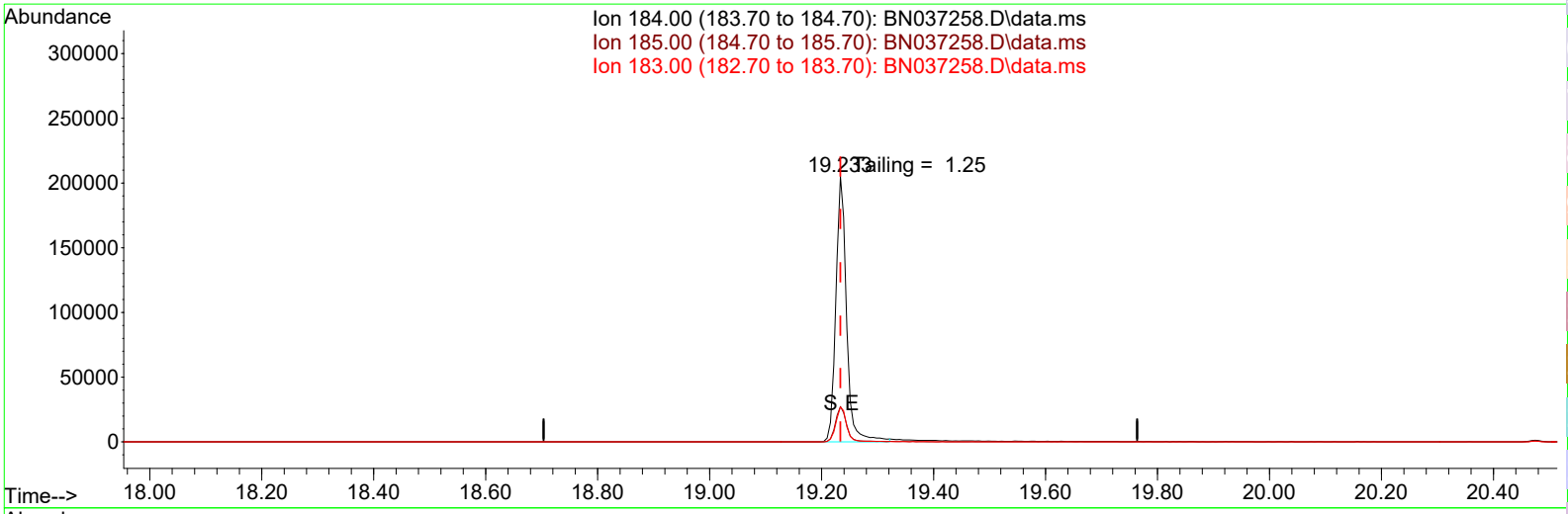
response 47565

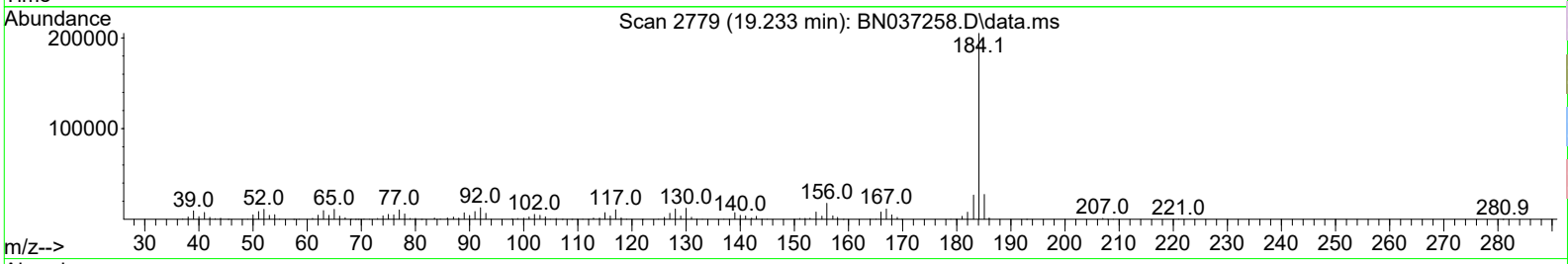
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	58.50
264.00	61.60	61.21
0.00	0.00	0.00

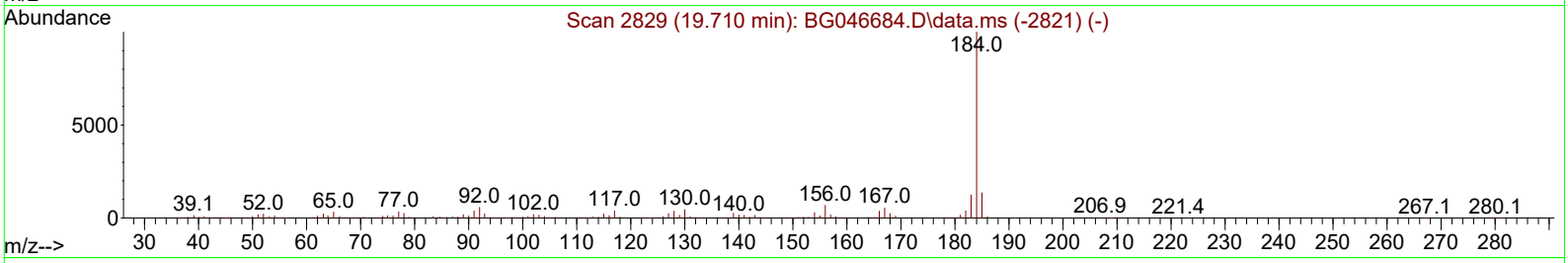
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037258.D
Acq On : 14 Jun 2025 12:44
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 37 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Jun 16 01:30:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jun 16 01:30:21 2025
Response via : Initial Calibration







TIC: BN037258.D\data.ms

(77) Benzidine

19.233min (0.000) 0.00 ng

response 278955

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	13.39
183.00	13.20	13.11
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

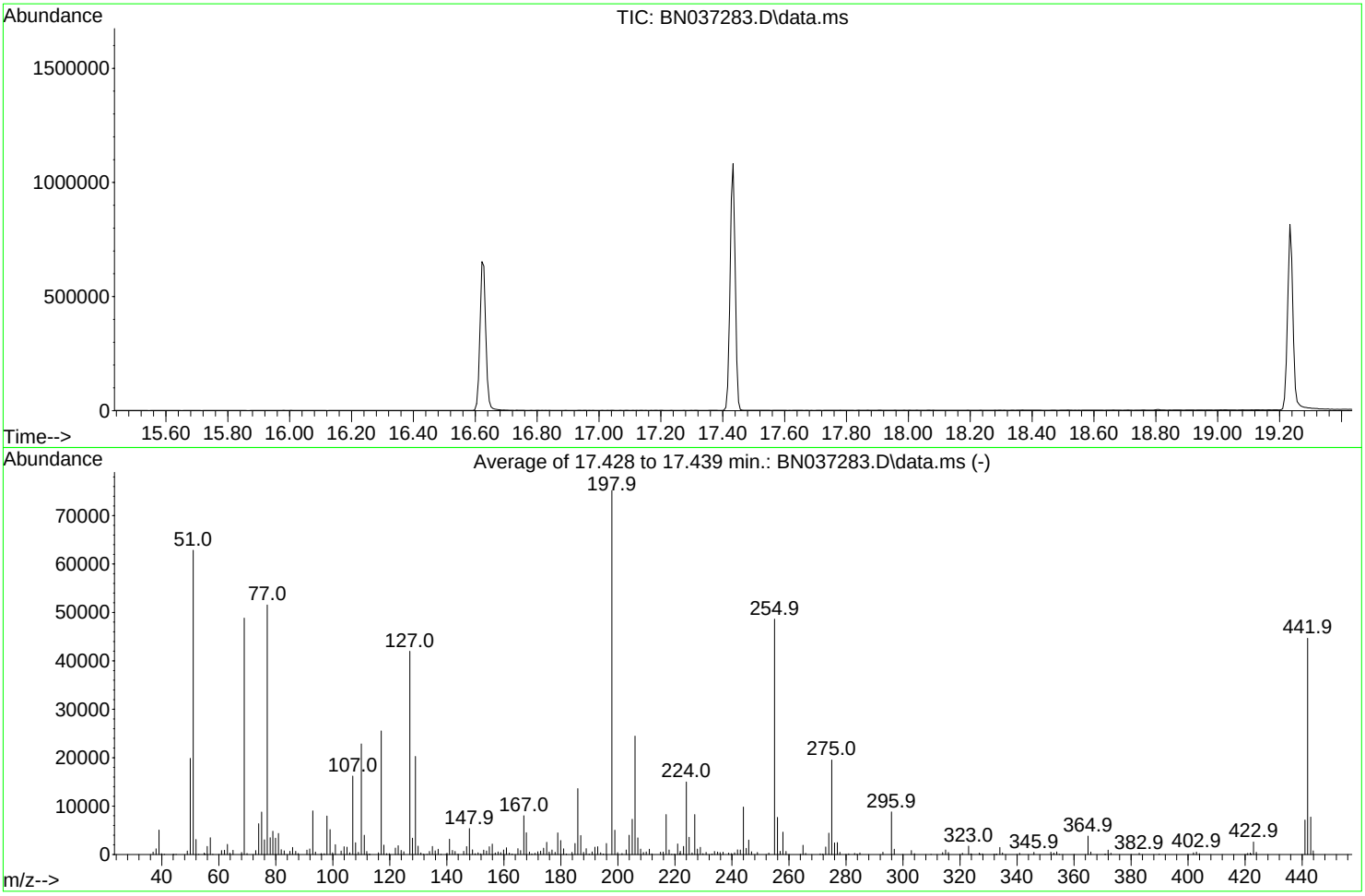
Date	Instrument Name	DFTPP Data File
6/13/2025	BNA_N	BN037258.D
Compound Name	**Response**	**Retention Time**
DDT	157903	20.475
DDD	2424	20.033
DDE	2656	17.434
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
5080	162983	3.12

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061625\
Data File : BN037283.D
Acq On : 16 Jun 2025 09:44
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Mon Jun 16 03:00:26 2025



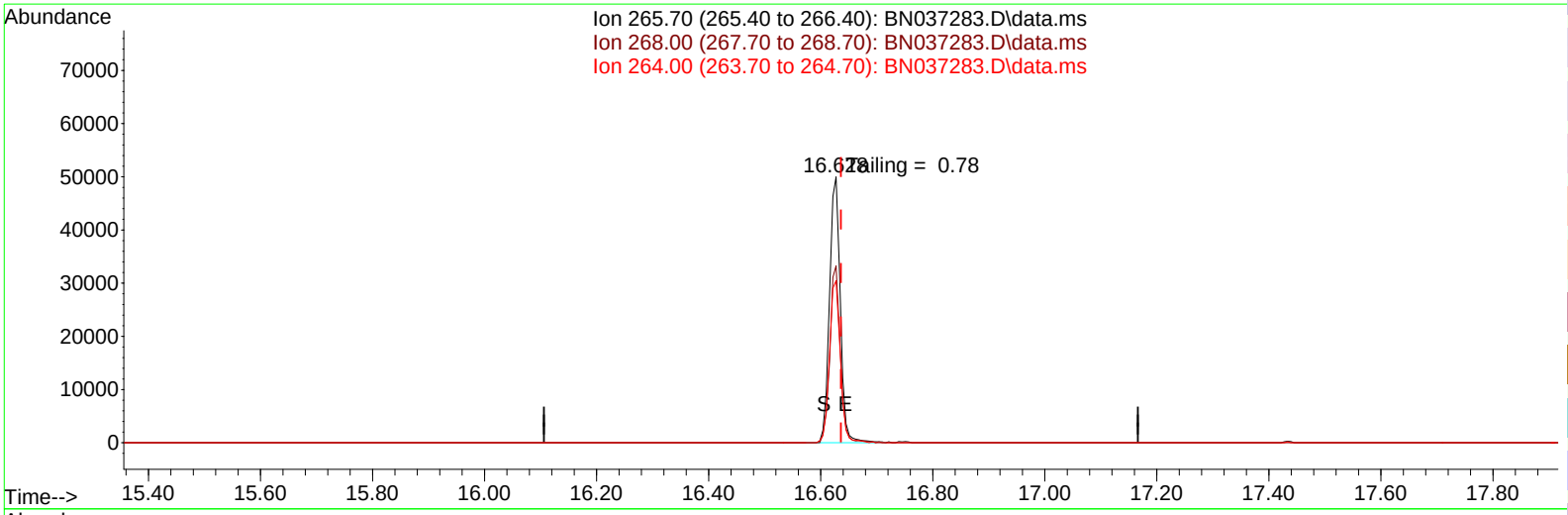
AutoFind: Scans 2472, 2473, 2474; Background Corrected with Scan 2465

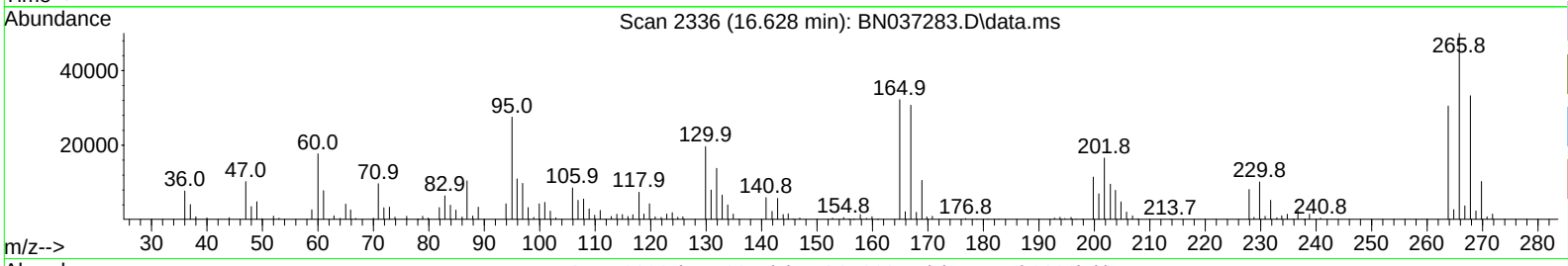
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
68	69	0.00	2	0.9	440	PASS
69	69	100	100	100.0	48840	PASS
70	69	0.00	2	0.4	216	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	75176	PASS
199	198	5	9	6.7	5035	PASS
365	198	1	100	5.1	3812	PASS
441	443	0.01	150	92.0	7125	PASS
442	442	100	100	100.0	44672	PASS
443	442	15	24	17.3	7741	PASS

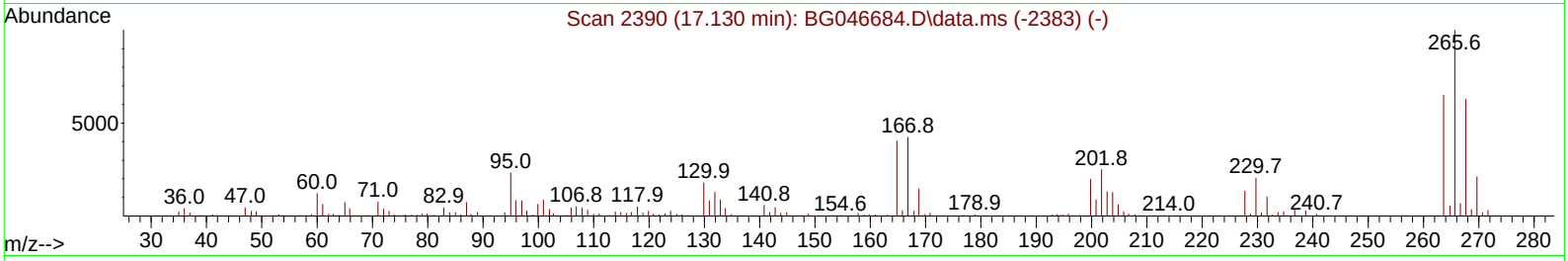
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061625\
Data File : BN037283.D
Acq On : 16 Jun 2025 09:44
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Jun 16 15:21:54 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jun 16 03:00:26 2025
Response via : Initial Calibration







TIC: BN037283.D\data.ms

(70) Pentachlorophenol (C)

16.628min (-0.008) 14961.68 ng

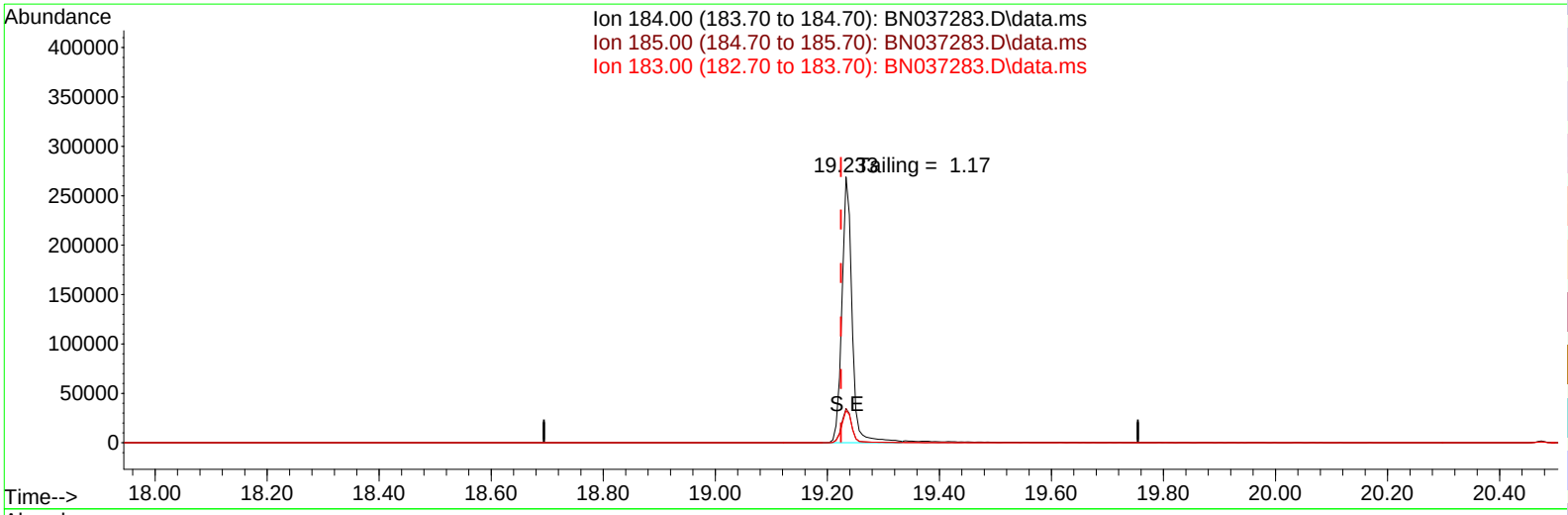
response 66692

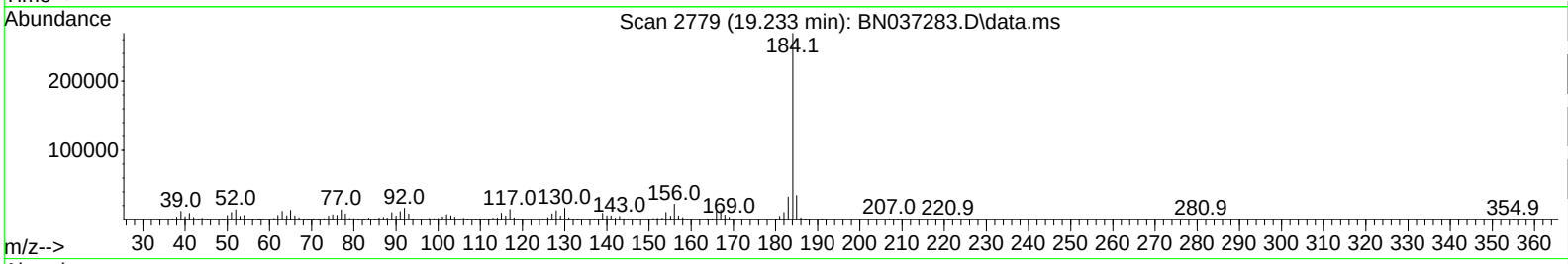
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	66.54
264.00	61.60	61.02
0.00	0.00	0.00

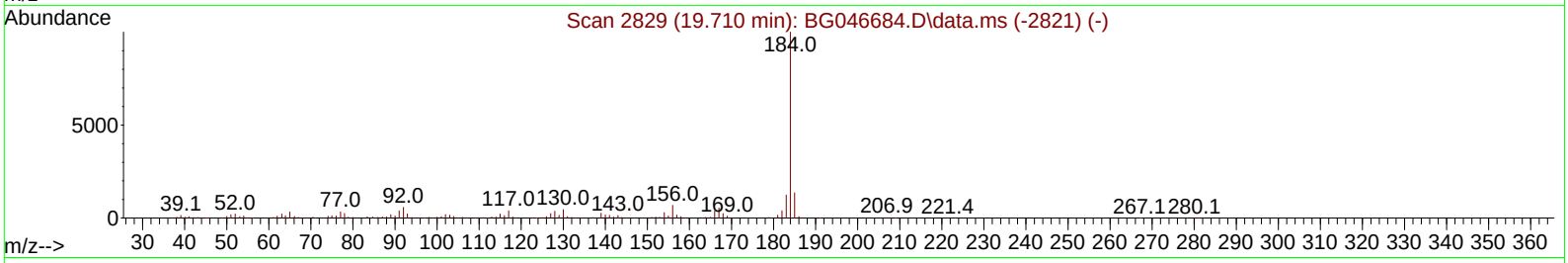
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061625\
Data File : BN037283.D
Acq On : 16 Jun 2025 09:44
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Jun 16 15:21:54 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jun 16 03:00:26 2025
Response via : Initial Calibration







TIC: BN037283.D\data.ms

(77) Benzidine

19.233min (+ 0.009) 0.00 ng

response 337105

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	12.90
183.00	13.20	12.04
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

Date	Instrument Name	DFTPP Data File
6/16/2025	BNA_N	BN037283.D
Compound Name	**Response**	**Retention Time**
DDT	229373	20.474
DDD	3011	20.086
DDE	0	0
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
3011	232384	1.30

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	PB168458BL	SDG No.:	Q2299
Lab Sample ID:	PB168458BL	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037241.D	1	06/13/25 08:03	06/14/25 00:31	PB168458

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.33		30 - 150		82%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.37		30 - 150		92%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.26		55 - 111		65%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.33		53 - 106		81%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.39		58 - 132		98%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1030	7.582				
1146-65-2	Naphthalene-d8	2350	10.362				
15067-26-2	Acenaphthene-d10	1250	14.235				
1517-22-2	Phenanthrene-d10	2010	16.984				
1719-03-5	Chrysene-d12	1420	21.18				
1520-96-3	Perylene-d12	1180	23.369				

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_N\Data\BN061325\
Data File : BN037241.D
Acq On : 14 Jun 2025 00:31
Operator : RC/JU
Sample : PB168458BL
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB168458BL

Quant Time: Jun 14 02:05:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration

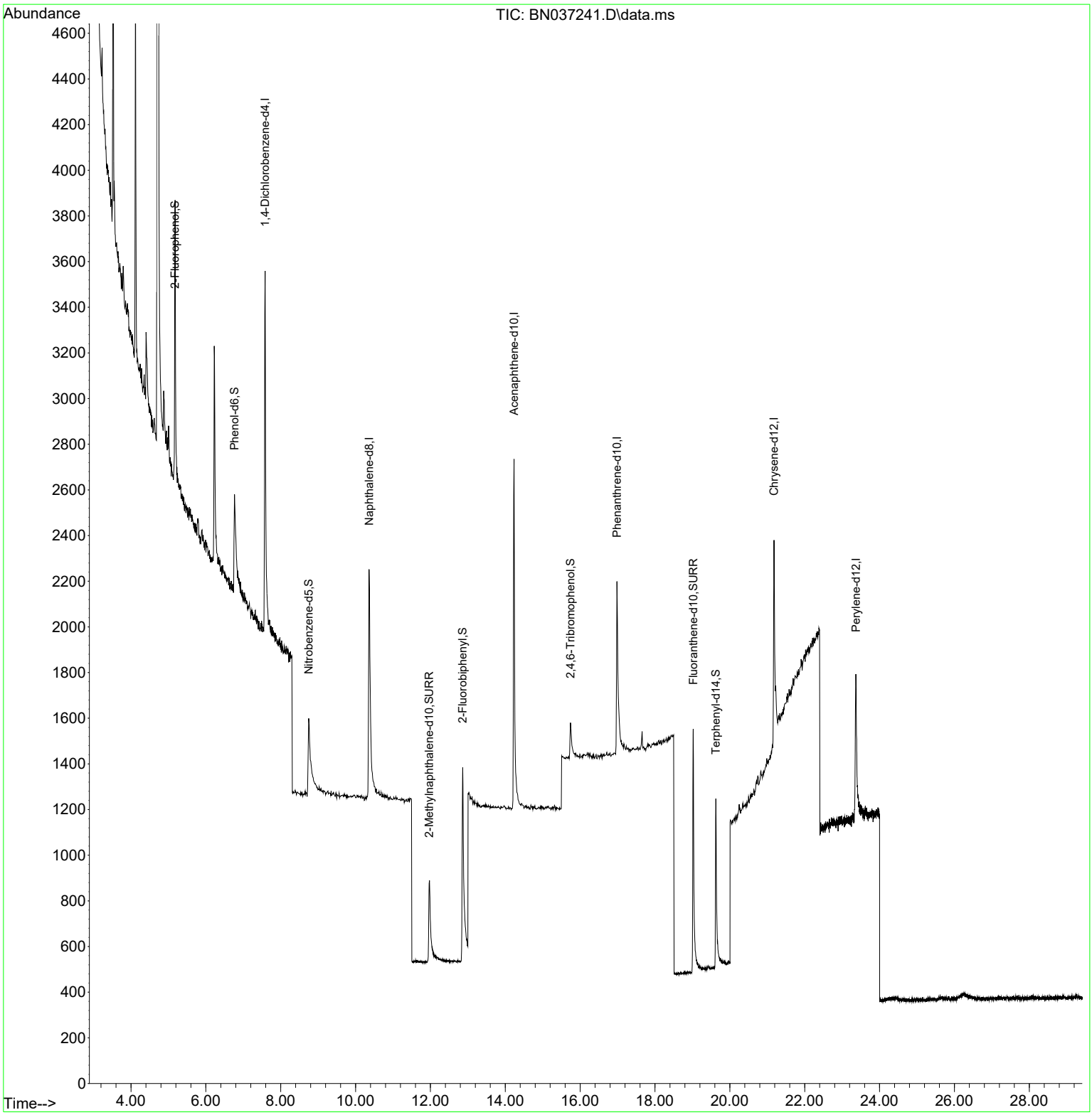
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.582	152	1034	0.400	ng	0.00
7) Naphthalene-d8	10.362	136	2349	0.400	ng	# 0.00
13) Acenaphthene-d10	14.235	164	1253	0.400	ng	0.01
19) Phenanthrene-d10	16.984	188	2010	0.400	ng	0.01
29) Chrysene-d12	21.180	240	1424	0.400	ng	# 0.00
35) Perylene-d12	23.369	264	1183	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	900	0.354	ng	0.00
5) Phenol-d6	6.766	99	773	0.289	ng	0.00
8) Nitrobenzene-d5	8.749	82	607	0.261	ng	0.02
11) 2-Methylnaphthalene-d10	11.971	152	1037	0.329	ng	0.02
14) 2,4,6-Tribromophenol	15.743	330	150	0.288	ng	0.01
15) 2-Fluorobiphenyl	12.863	172	1717	0.326	ng	0.02
27) Fluoranthene-d10	19.022	212	1933	0.368	ng	0.00
31) Terphenyl-d14	19.626	244	1259	0.391	ng	0.00
Target Compounds						Qvalue

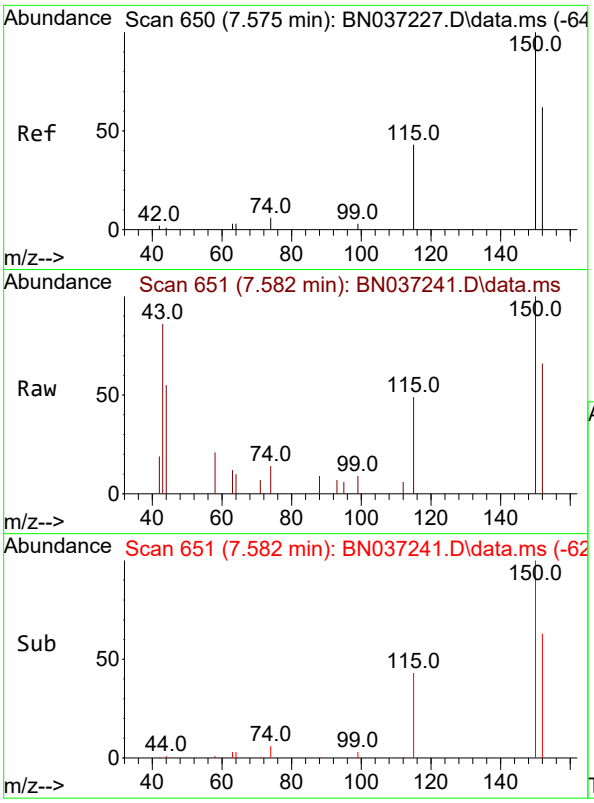
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037241.D
Acq On : 14 Jun 2025 00:31
Operator : RC/JU
Sample : PB168458BL
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB168458BL

Quant Time: Jun 14 02:05:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration



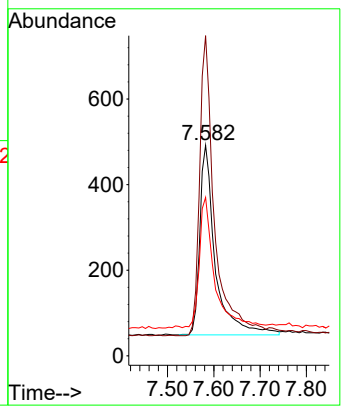


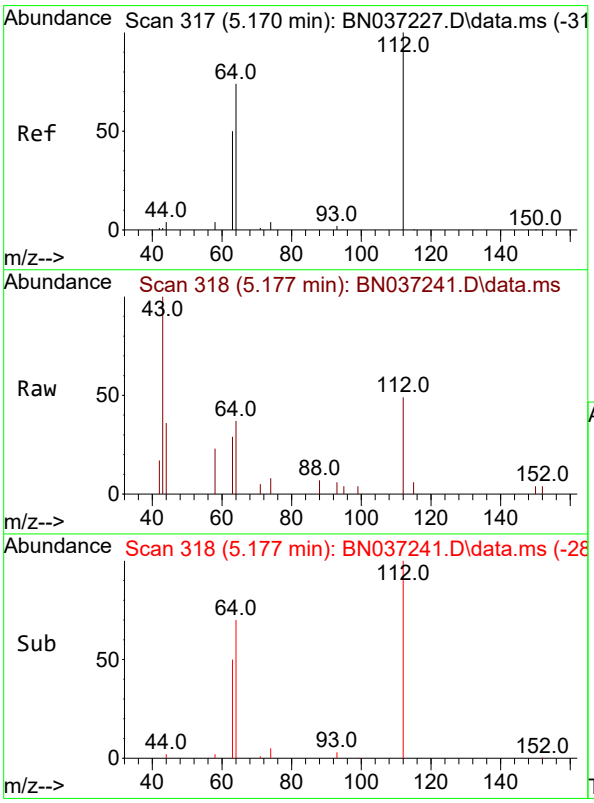
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.582 min Scan# 6
Delta R.T. 0.007 min
Lab File: BN037241.D
Acq: 14 Jun 2025 00:31

Instrument :
BNA_N
ClientSampleId :
PB168458BL

Tgt Ion:152 Resp: 1034

Ion	Ratio	Lower	Upper
152	100		
150	152.0	125.2	187.8
115	75.2	58.4	87.6

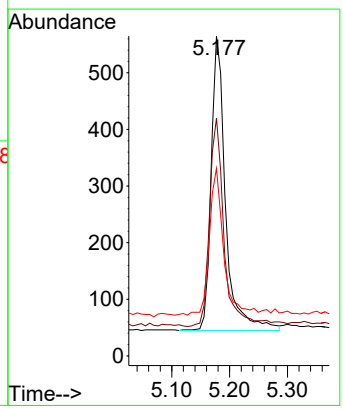


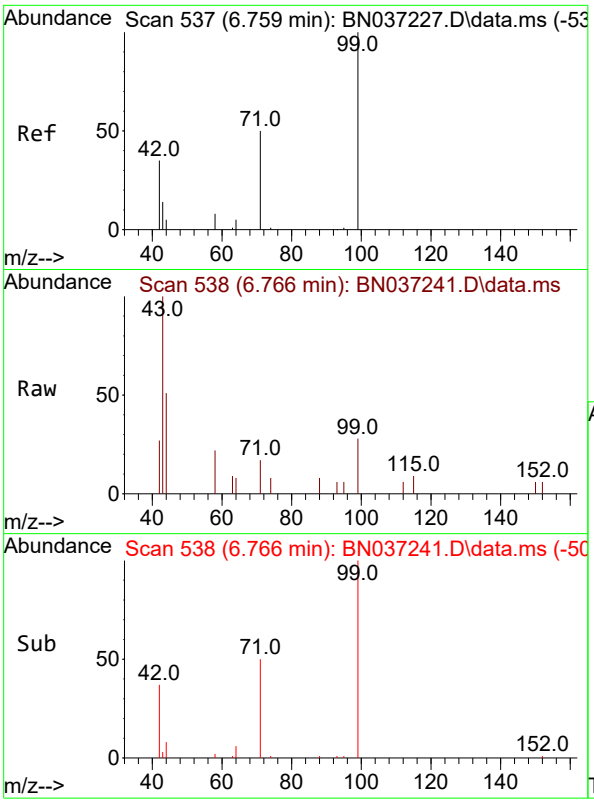


#4
2-Fluorophenol
Concen: 0.354 ng
RT: 5.177 min Scan# 318
Delta R.T. 0.007 min
Lab File: BN037241.D
Acq: 14 Jun 2025 00:31

Tgt Ion:112 Resp: 900

Ion	Ratio	Lower	Upper
112	100		
64	72.9	57.2	85.8
63	50.1	39.8	59.6



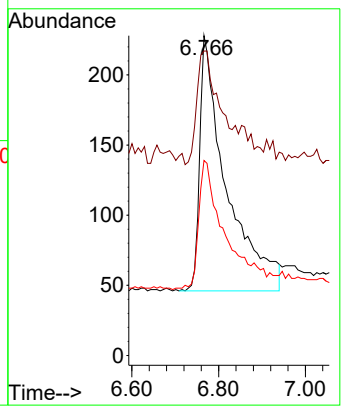


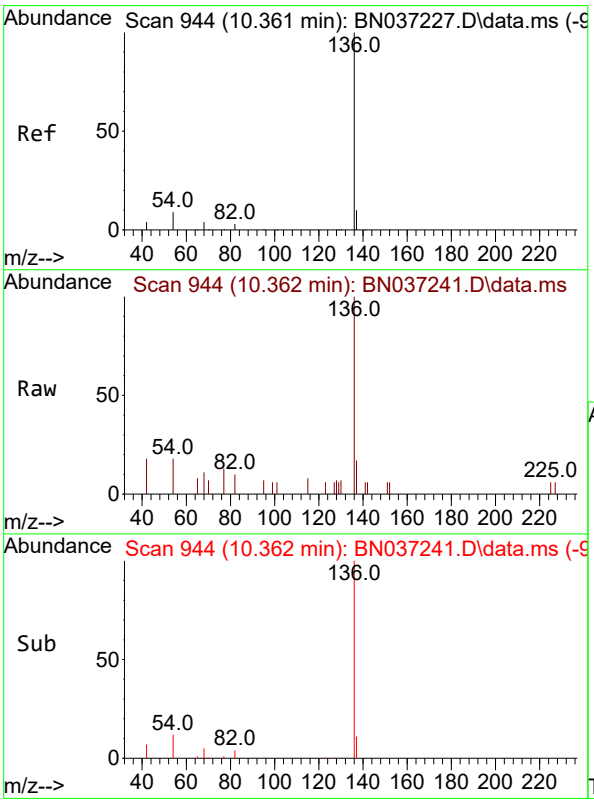
#5
Phenol-d6
Concen: 0.289 ng
RT: 6.766 min Scan# 5
Delta R.T. 0.007 min
Lab File: BN037241.D
Acq: 14 Jun 2025 00:31

Instrument :
BNA_N
ClientSampleId :
PB168458BL

Tgt Ion: 99 Resp: 773

Ion	Ratio	Lower	Upper
99	100		
42	37.0	36.2	54.4
71	52.5	42.4	63.6

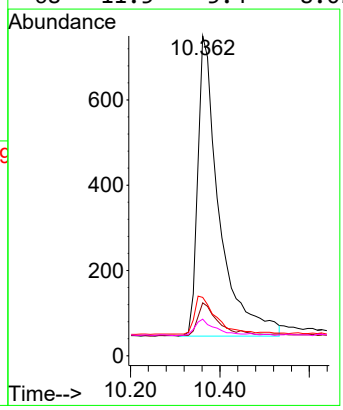


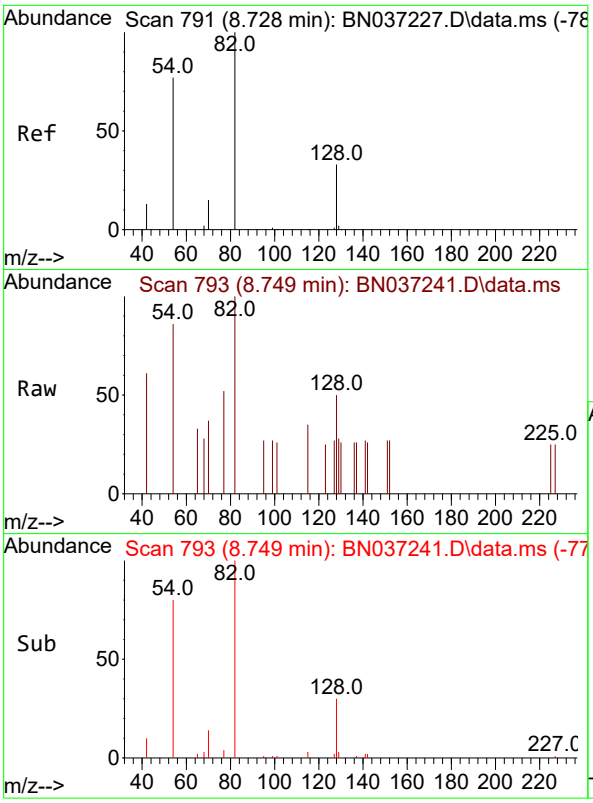


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.362 min Scan# 944
Delta R.T. 0.000 min
Lab File: BN037241.D
Acq: 14 Jun 2025 00:31

Tgt Ion:136 Resp: 2349

Ion	Ratio	Lower	Upper
136	100		
137	16.5	10.6	15.8#
54	18.3	9.2	13.8#
68	11.5	5.4	8.0#



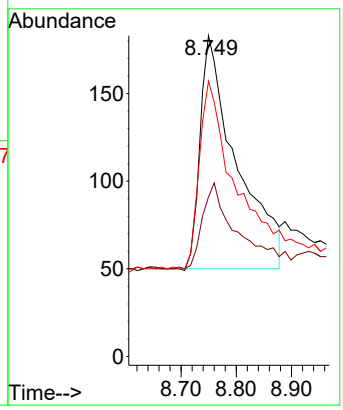


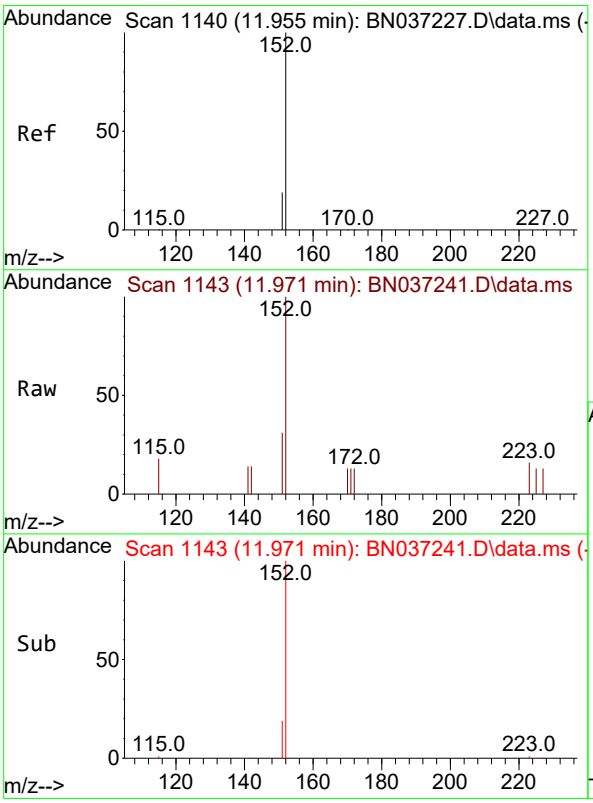
#8
Nitrobenzene-d5
Concen: 0.261 ng
RT: 8.749 min Scan# 7
Delta R.T. 0.022 min
Lab File: BN037241.D
Acq: 14 Jun 2025 00:31

Instrument :
BNA_N
ClientSampleId :
PB168458BL

Tgt Ion: 82 Resp: 607

Ion	Ratio	Lower	Upper
82	100		
128	49.7	31.2	46.8#
54	85.8	63.3	94.9

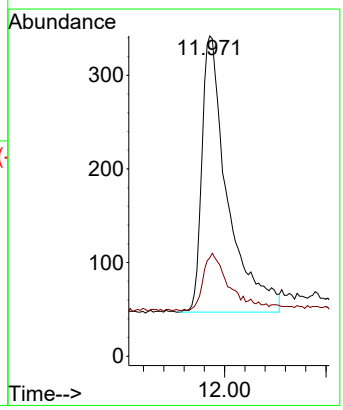


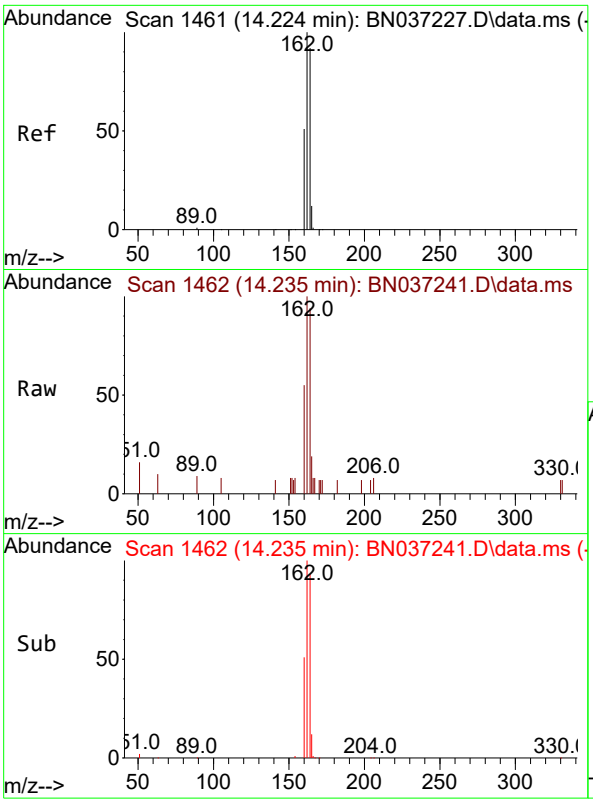


#11
2-Methylnaphthalene-d10
Concen: 0.329 ng
RT: 11.971 min Scan# 1143
Delta R.T. 0.015 min
Lab File: BN037241.D
Acq: 14 Jun 2025 00:31

Tgt Ion:152 Resp: 1037

Ion	Ratio	Lower	Upper
152	100		
151	21.0	17.9	26.9



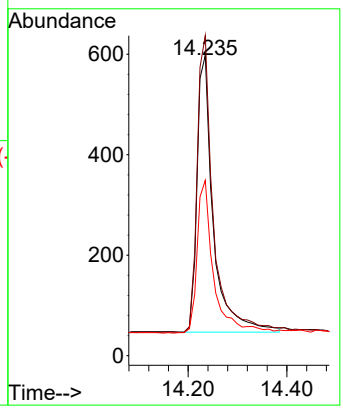


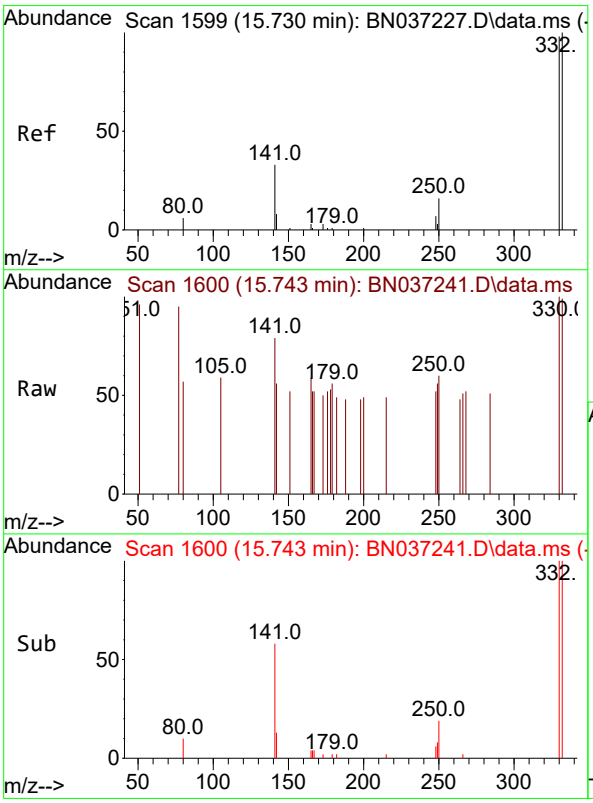
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.235 min Scan# 14
Delta R.T. 0.011 min
Lab File: BN037241.D
Acq: 14 Jun 2025 00:31

Instrument :
BNA_N
ClientSampleId :
PB168458BL

Tgt Ion:164 Resp: 1253

Ion	Ratio	Lower	Upper
164	100		
162	106.5	86.7	130.1
160	58.4	45.8	68.6

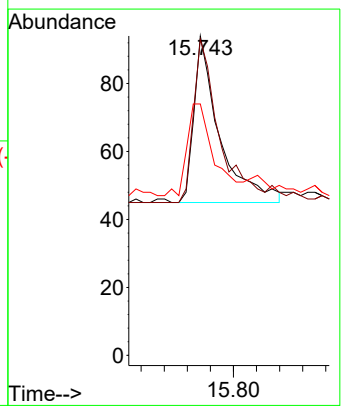


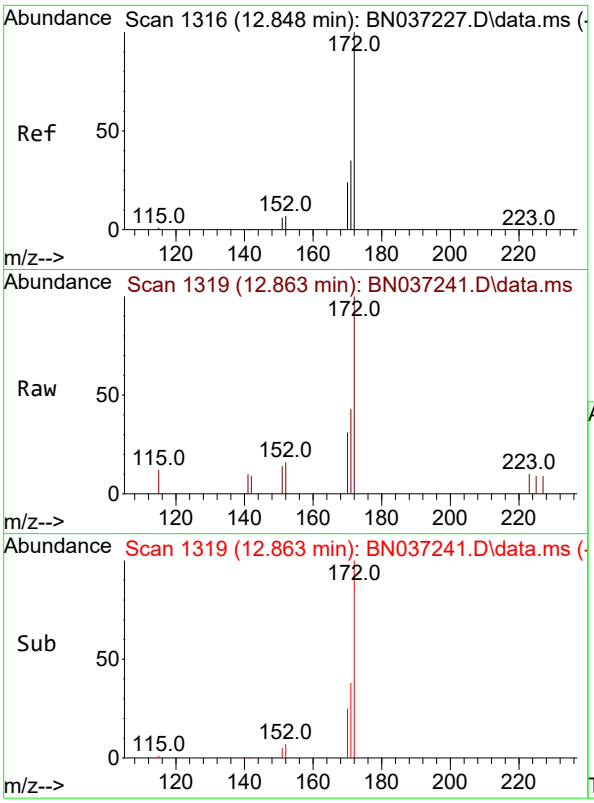


#14
2,4,6-Tribromophenol
Concen: 0.288 ng
RT: 15.743 min Scan# 1600
Delta R.T. 0.013 min
Lab File: BN037241.D
Acq: 14 Jun 2025 00:31

Tgt Ion:330 Resp: 150

Ion	Ratio	Lower	Upper
330	100		
332	98.7	74.9	112.3
141	58.7	45.1	67.7



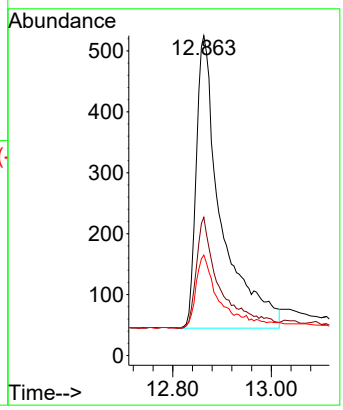


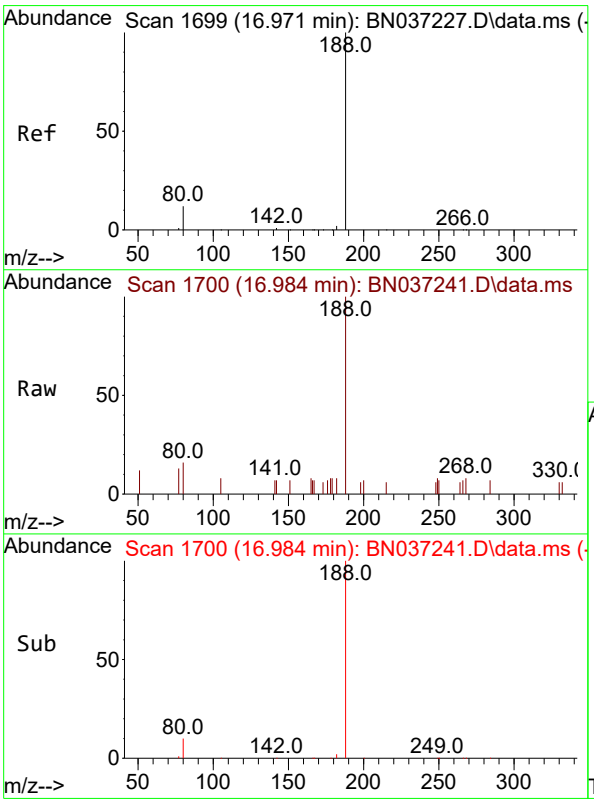
#15
2-Fluorobiphenyl
Concen: 0.326 ng
RT: 12.863 min Scan# 1
Delta R.T. 0.015 min
Lab File: BN037241.D
Acq: 14 Jun 2025 00:31

Instrument :
BNA_N
ClientSampleId :
PB168458BL

Tgt Ion:172 Resp: 1717

Ion	Ratio	Lower	Upper
172	100		
171	43.2	29.8	44.8
170	31.4	21.1	31.7

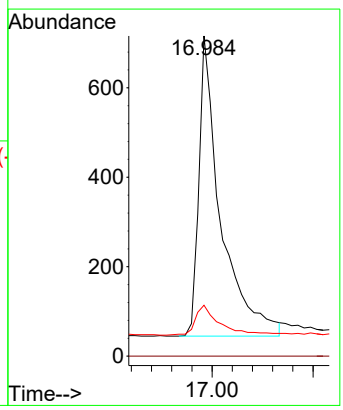


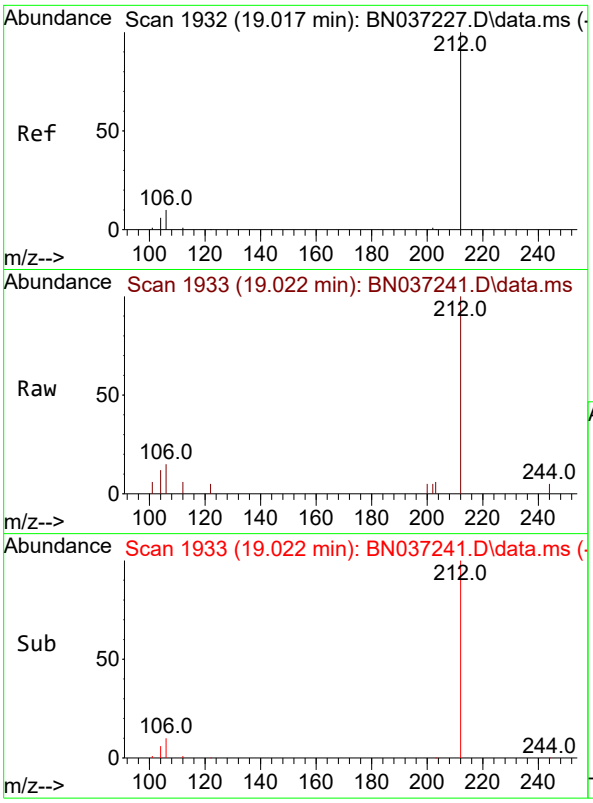


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.984 min Scan# 1700
Delta R.T. 0.013 min
Lab File: BN037241.D
Acq: 14 Jun 2025 00:31

Tgt Ion:188 Resp: 2010

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	15.9	12.2	18.4



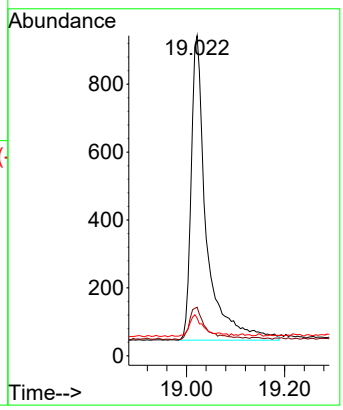


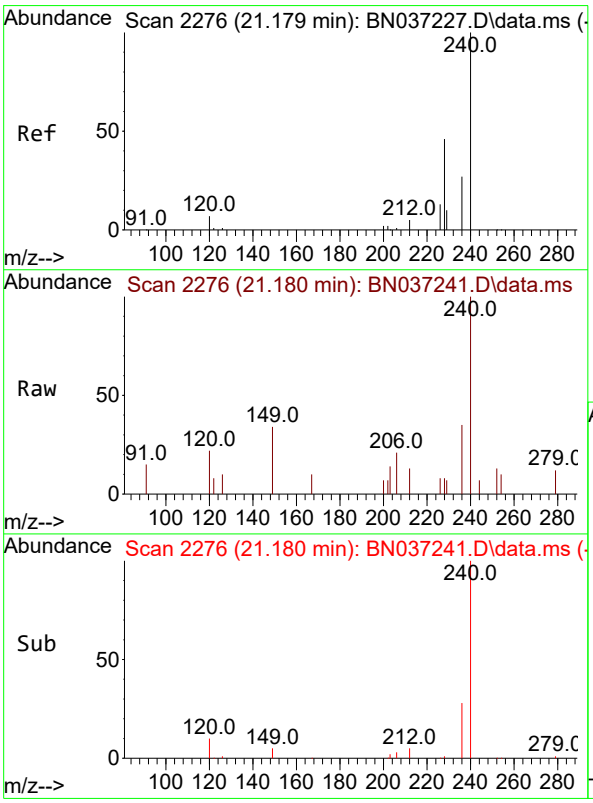
#27
Fluoranthene-d10
Concen: 0.368 ng
RT: 19.022 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN037241.D
Acq: 14 Jun 2025 00:31

Instrument :
BNA_N
ClientSampleId :
PB168458BL

Tgt Ion:212 Resp: 1933

Ion	Ratio	Lower	Upper
212	100		
106	11.3	9.3	13.9
104	5.8	5.7	8.5

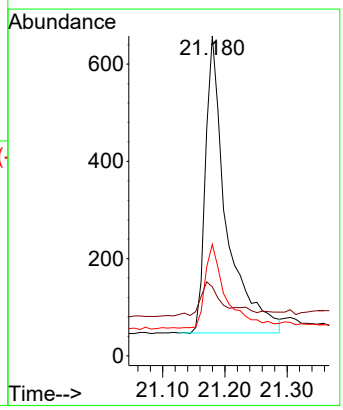


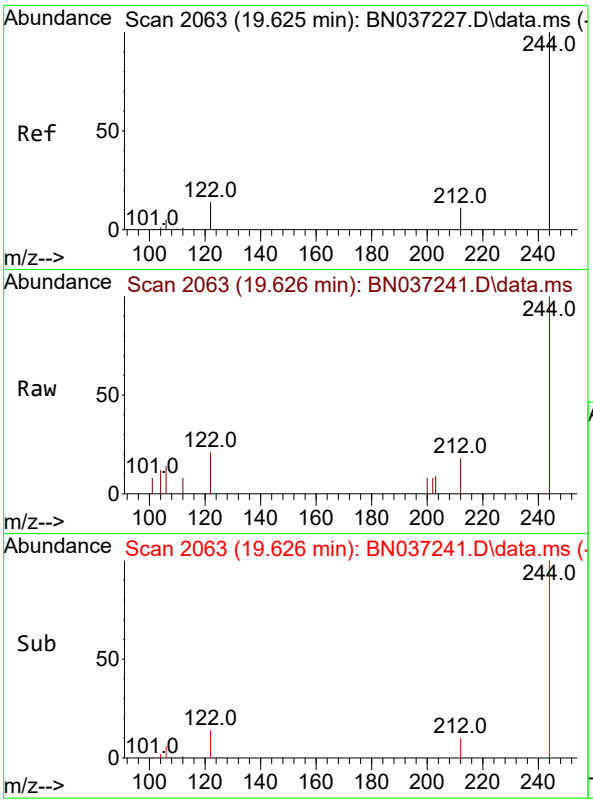


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.180 min Scan# 2276
Delta R.T. 0.000 min
Lab File: BN037241.D
Acq: 14 Jun 2025 00:31

Tgt Ion:240 Resp: 1424

Ion	Ratio	Lower	Upper
240	100		
120	21.6	11.3	16.9#
236	34.8	24.4	36.6



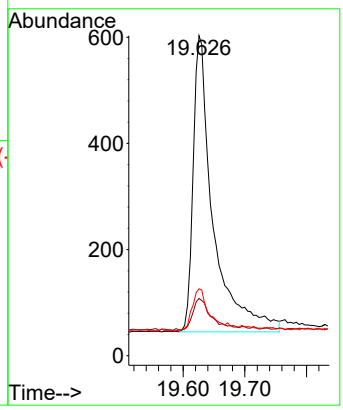


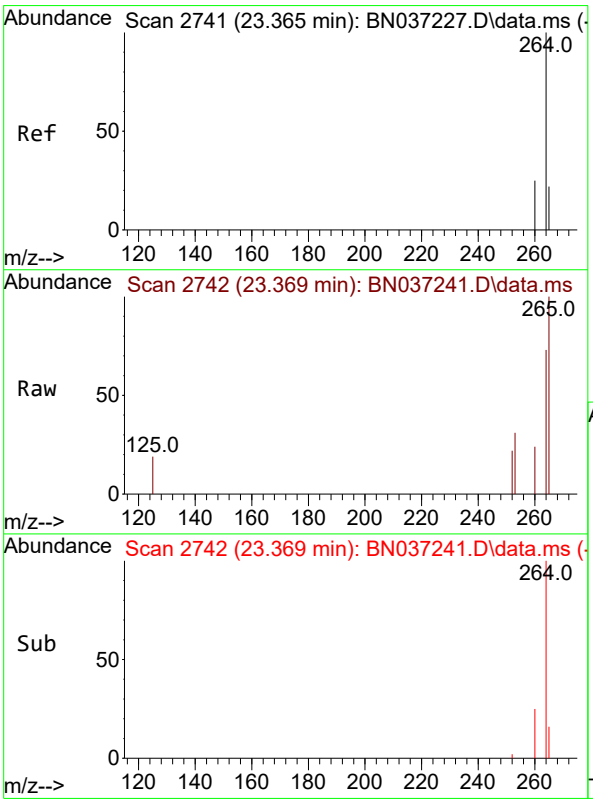
#31
Terphenyl-d14
Concen: 0.391 ng
RT: 19.626 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037241.D
Acq: 14 Jun 2025 00:31

Instrument :
BNA_N
ClientSampleId :
PB168458BL

Tgt Ion:244 Resp: 1259

Ion	Ratio	Lower	Upper
244	100		
212	17.9	12.2	18.2
122	20.9	14.3	21.5

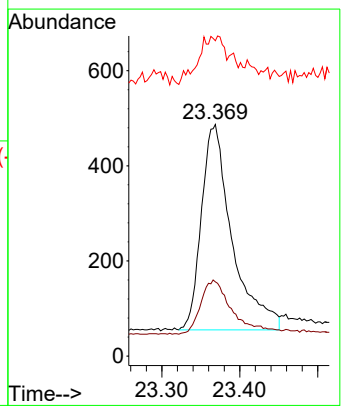




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.369 min Scan# 2742
Delta R.T. 0.003 min
Lab File: BN037241.D
Acq: 14 Jun 2025 00:31

Tgt Ion:264 Resp: 1183

Ion	Ratio	Lower	Upper
264	100		
260	32.0	22.8	34.2
265	136.1	66.4	99.6#



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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	PB168458BS	SDG No.:	Q2299
Lab Sample ID:	PB168458BS	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037270.D	1	06/13/25 08:03	06/14/25 20:00	PB168458

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.36		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.41		30 - 150		102%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.34		30 - 150		85%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.36		55 - 111		90%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.37		53 - 106		93%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.38		58 - 132		94%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1590	7.575				
1146-65-2	Naphthalene-d8	3910	10.351				
15067-26-2	Acenaphthene-d10	1940	14.224				
1517-22-2	Phenanthrene-d10	3410	16.971				
1719-03-5	Chrysene-d12	2500	21.171				
1520-96-3	Perylene-d12	2300	23.36				

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_N\Data\BN061325\
Data File : BN037270.D
Acq On : 14 Jun 2025 20:00
Operator : RC/JU
Sample : PB168458BS
Misc :
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Jun 16 02:44:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
PB168458BS

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	1588	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	3911	0.400	ng	-0.01
13) Acenaphthene-d10	14.224	164	1944	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	3410	0.400	ng	# 0.00
29) Chrysene-d12	21.171	240	2495	0.400	ng	0.00
35) Perylene-d12	23.360	264	2298	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	1318	0.338	ng	0.00
5) Phenol-d6	6.759	99	1473	0.358	ng	0.00
8) Nitrobenzene-d5	8.717	82	1391	0.360	ng	-0.01
11) 2-Methylnaphthalene-d10	11.950	152	2152m	0.410	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	247	0.306	ng	-0.01
15) 2-Fluorobiphenyl	12.843	172	3044	0.373	ng	0.00
27) Fluoranthene-d10	19.012	212	3035	0.340	ng	0.00
31) Terphenyl-d14	19.621	244	2131	0.378	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.104	88	779	0.358	ng	# 35
3) n-Nitrosodimethylamine	3.415	42	1716	0.346	ng	# 98
6) bis(2-Chloroethyl)ether	7.004	93	1351	0.367	ng	97
9) Naphthalene	10.404	128	3863	0.341	ng	99
10) Hexachlorobutadiene	10.692	225	984	0.357	ng	# 96
12) 2-Methylnaphthalene	12.026	142	2180	0.317	ng	99
16) Acenaphthylene	13.935	152	3608	0.379	ng	99
17) Acenaphthene	14.288	154	2128	0.346	ng	99
18) Fluorene	15.282	166	2799	0.354	ng	99
20) 4,6-Dinitro-2-methylph...	15.378	198	248	0.394	ng	# 77
21) 4-Bromophenyl-phenylether	16.177	248	830	0.374	ng	# 84
22) Hexachlorobenzene	16.289	284	927	0.360	ng	98
23) Atrazine	16.450	200	760	0.383	ng	94
24) Pentachlorophenol	16.636	266	252	0.200	ng	94
25) Phenanthrene	17.009	178	3936	0.364	ng	99
26) Anthracene	17.108	178	3696	0.373	ng	99
28) Fluoranthene	19.040	202	4192	0.331	ng	98
30) Pyrene	19.407	202	4321	0.368	ng	100
32) Benzo(a)anthracene	21.153	228	3158	0.375	ng	99
33) Chrysene	21.206	228	3873	0.369	ng	99
34) Bis(2-ethylhexyl)phtha...	21.099	149	2339	0.373	ng	100
36) Indeno(1,2,3-cd)pyrene	25.544	276	3705	0.400	ng	100
37) Benzo(b)fluoranthene	22.705	252	3140	0.374	ng	98
38) Benzo(k)fluoranthene	22.749	252	3614	0.372	ng	99
39) Benzo(a)pyrene	23.260	252	3030	0.401	ng	98
40) Dibenzo(a,h)anthracene	25.558	278	2809	0.398	ng	96
41) Benzo(g,h,i)perylene	26.210	276	3183	0.370	ng	99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037270.D
Acq On : 14 Jun 2025 20:00
Operator : RC/JU
Sample : PB168458BS
Misc :
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Jun 16 02:44:55 2025
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Instrument :
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ClientSampleId :
PB168458BS

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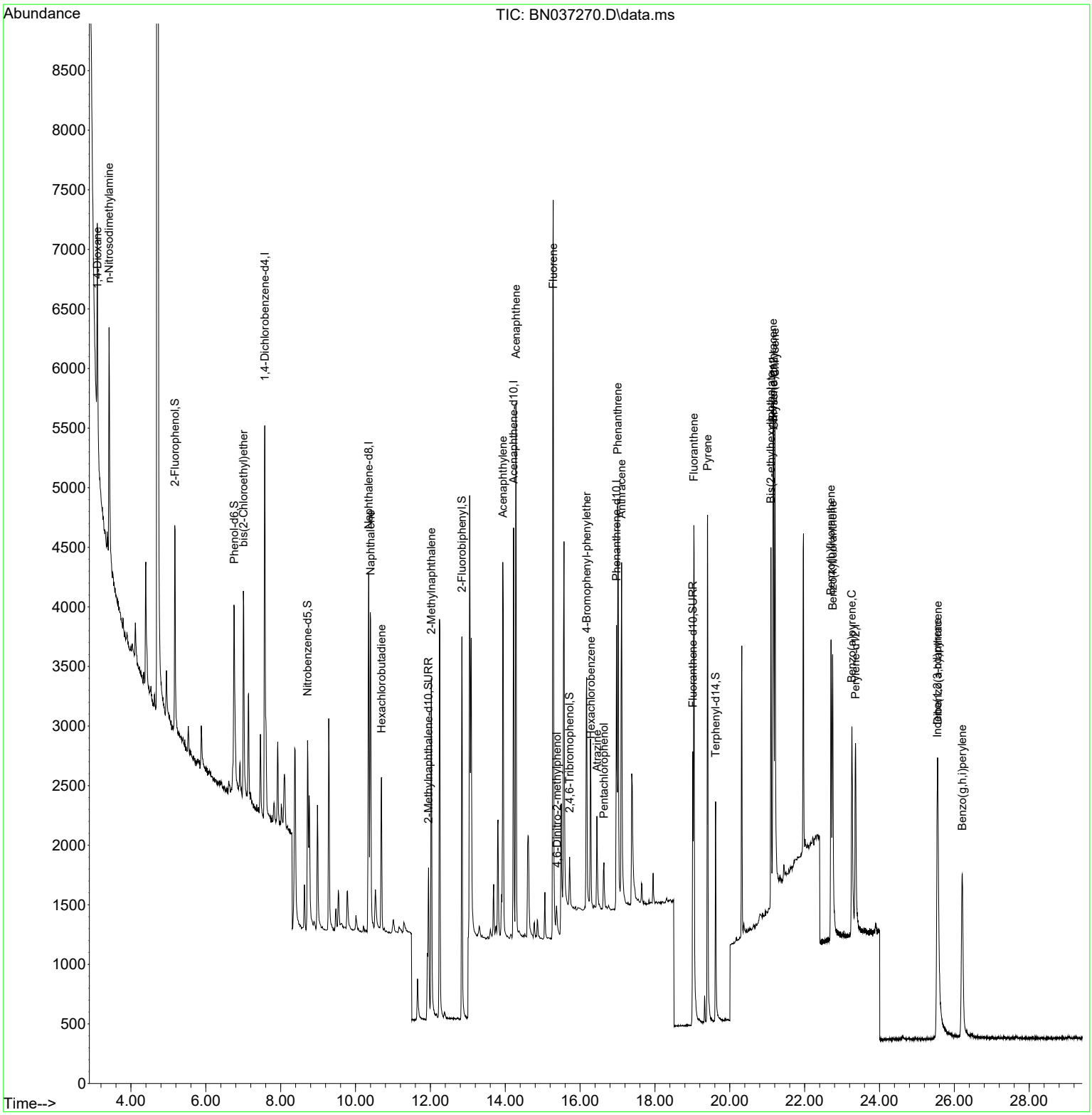
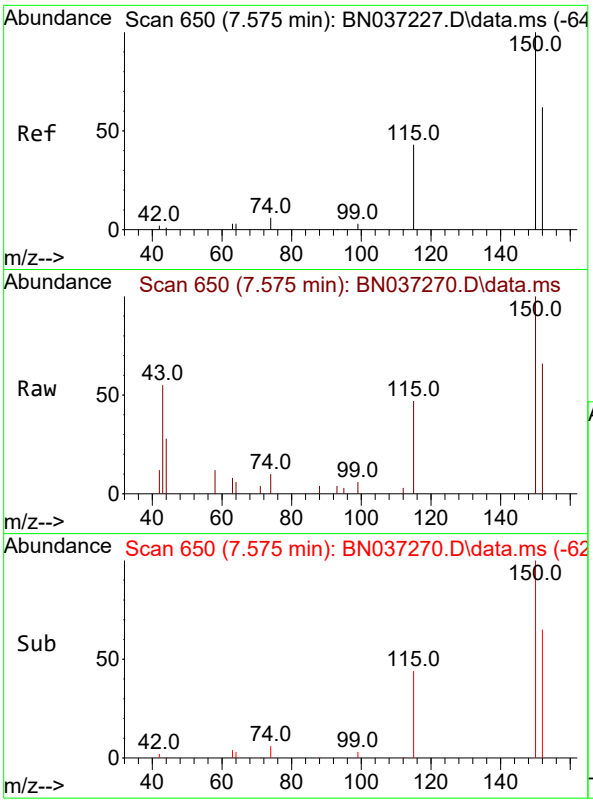
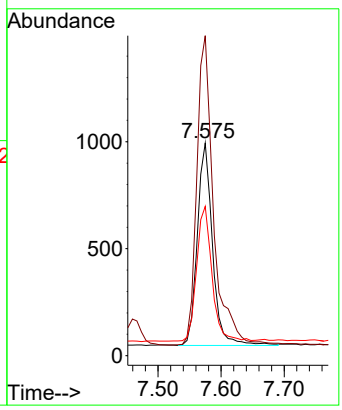




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Tgt Ion:152 Resp: 158

Ion	Ratio	Lower	Upper
152	100		
150	150.5	125.2	187.8
115	70.2	58.4	87.6



Instrument :
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ClientSampleId :
PB168458BS

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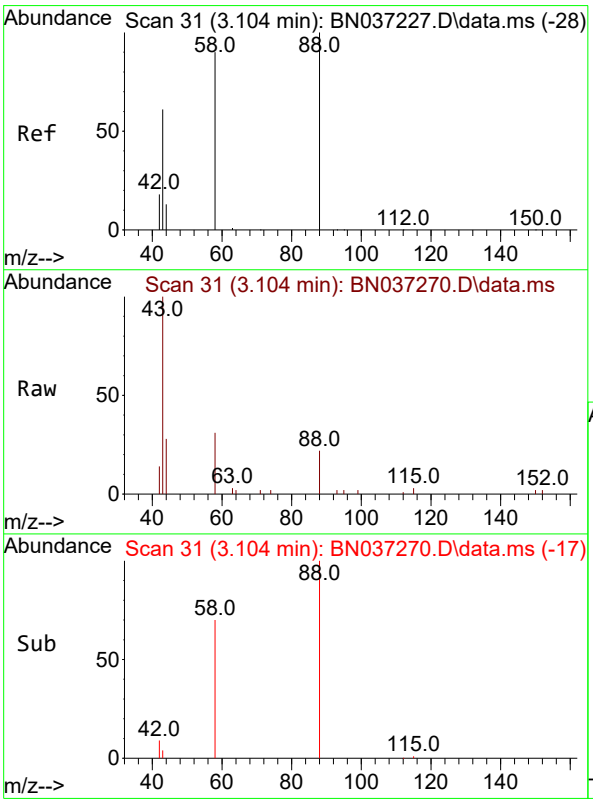
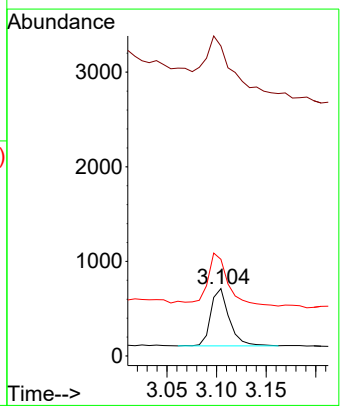
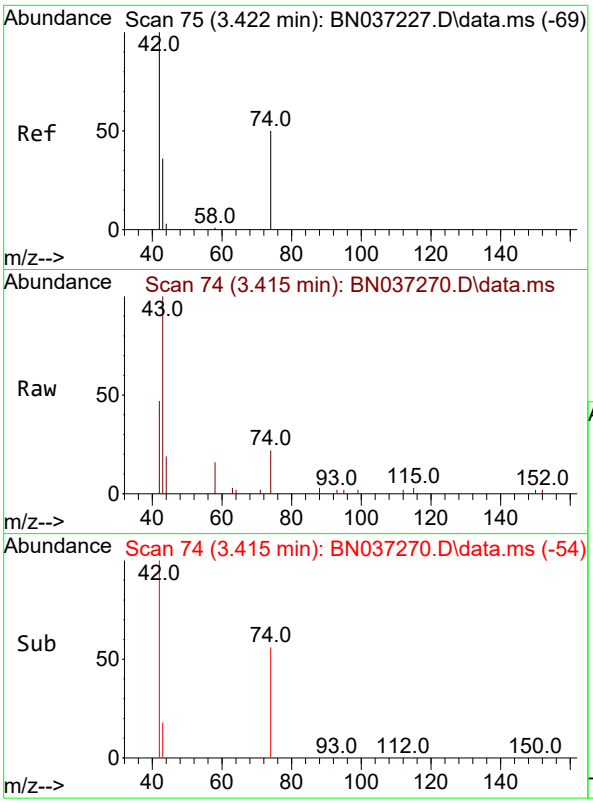


#2
1,4-Dioxane
Concen: 0.358 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Tgt Ion: 88 Resp: 779

Ion	Ratio	Lower	Upper
88	100		
43	177.2	52.6	79.0#
58	103.1	73.5	110.3





#3
n-Nitrosodimethylamine
Concen: 0.346 ng
RT: 3.415 min Scan# 7
Delta R.T. -0.007 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Tgt Ion: 42 Resp: 171

Ion	Ratio	Lower	Upper
42	100		
74	54.8	44.6	66.8
44	7.2	3.5	5.3

Instrument :
BNA_N
ClientSampleId :
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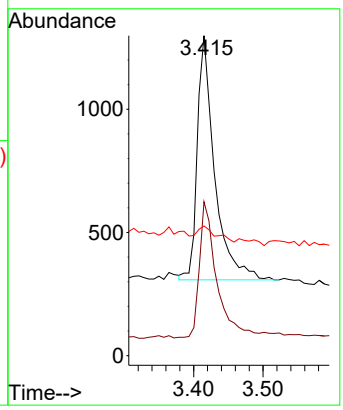
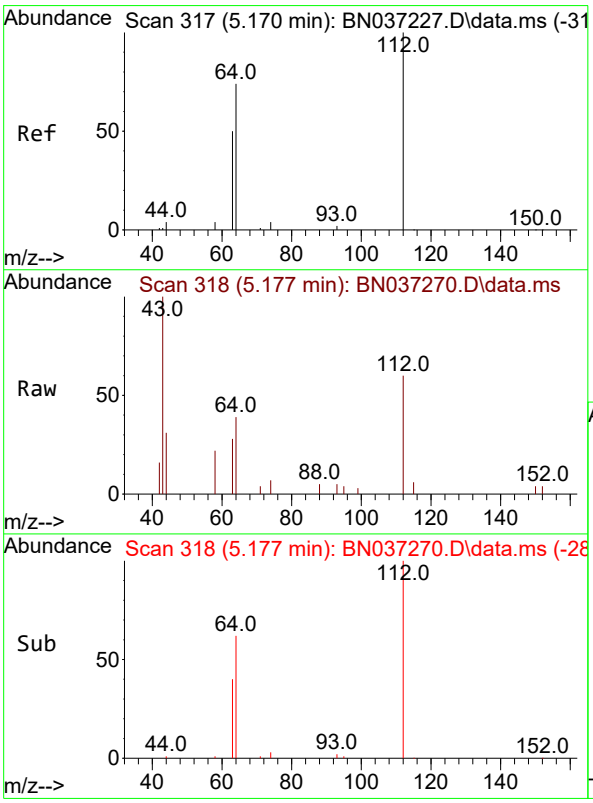
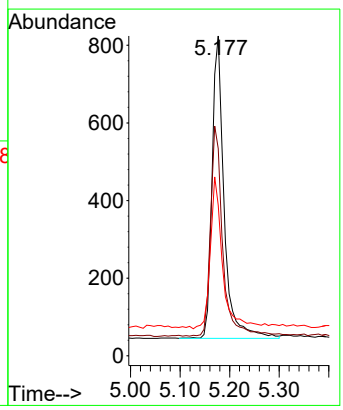


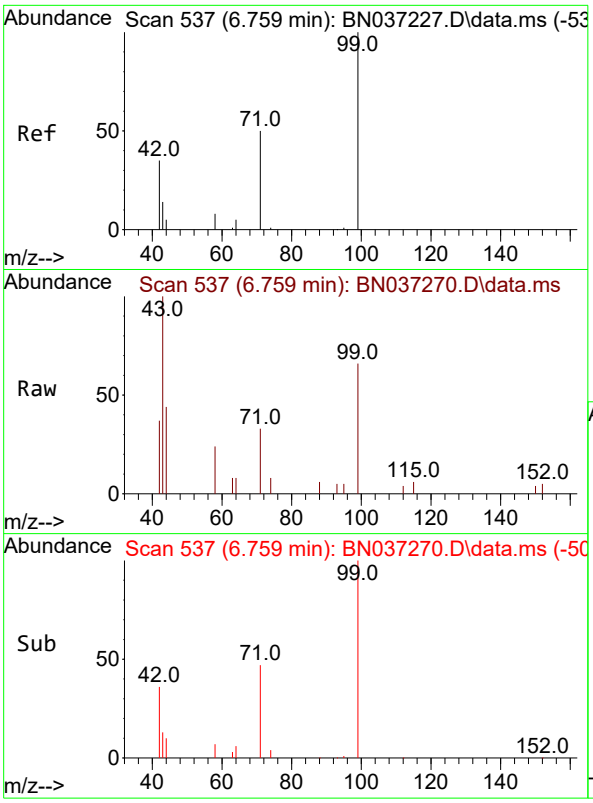


#4
2-Fluorophenol
Concen: 0.338 ng
RT: 5.177 min Scan# 318
Delta R.T. 0.007 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Tgt Ion:112 Resp: 1318

Ion	Ratio	Lower	Upper
112	100		
64	70.6	57.2	85.8
63	50.7	39.8	59.6

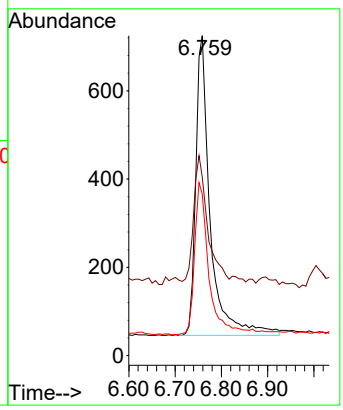




#5
Phenol-d6
Concen: 0.358 ng
RT: 6.759 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Tgt Ion: 99 Resp: 147

Ion	Ratio	Lower	Upper
99	100		
42	40.4	36.2	54.4
71	51.6	42.4	63.6



Instrument :
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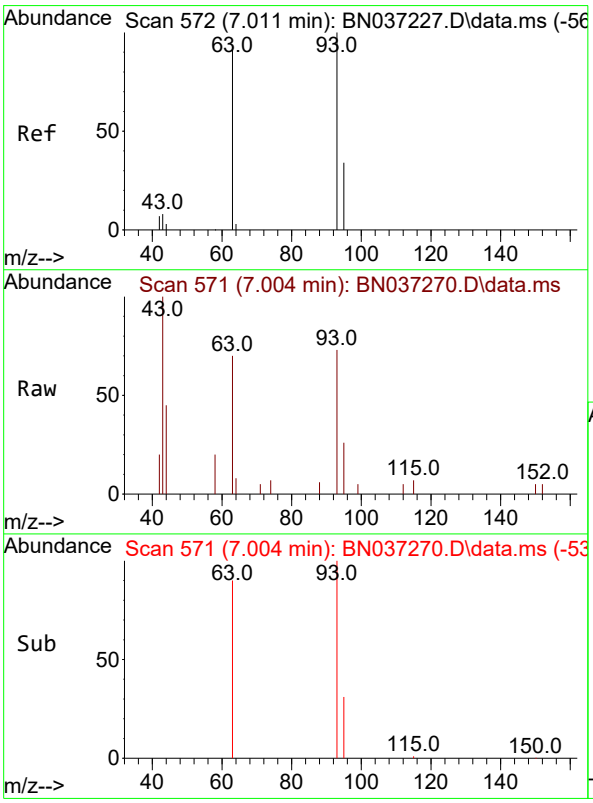
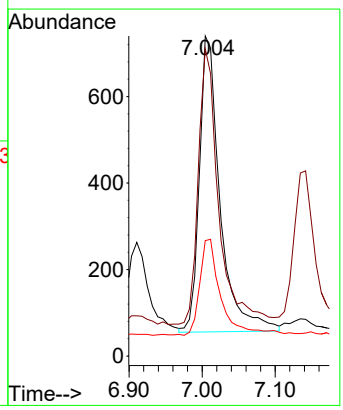
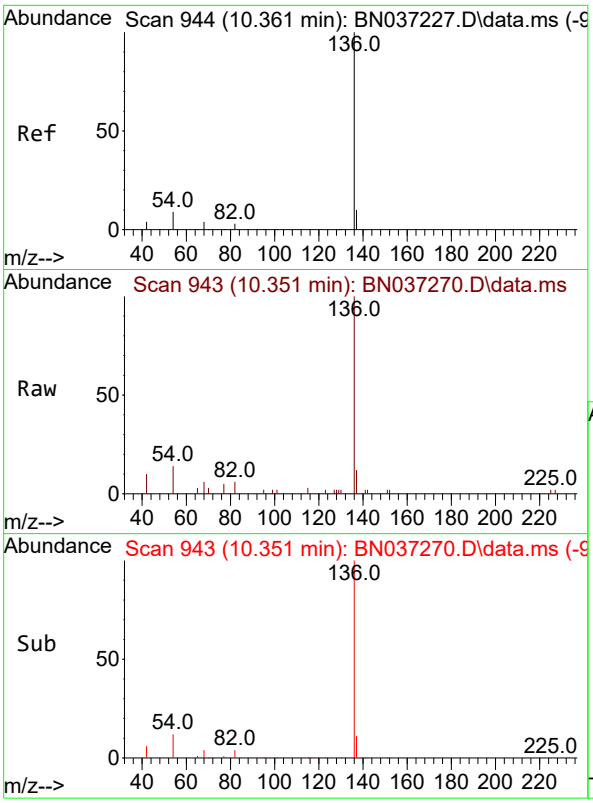


#6
bis(2-Chloroethyl)ether
Concen: 0.367 ng
RT: 7.004 min Scan# 571
Delta R.T. -0.007 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Tgt Ion: 93 Resp: 1351

Ion	Ratio	Lower	Upper
93	100		
63	91.2	75.2	112.8
95	32.8	28.3	42.5

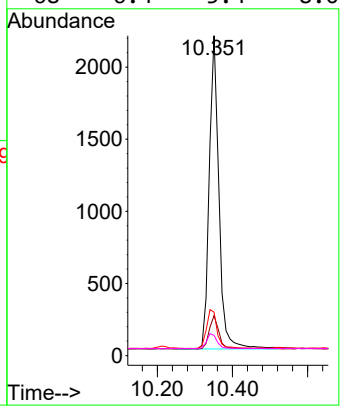




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Tgt Ion:136 Resp: 391

Ion	Ratio	Lower	Upper
136	100		
137	12.5	10.6	15.8
54	13.6	9.2	13.8
68	6.4	5.4	8.0



Instrument :
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ClientSampleId :
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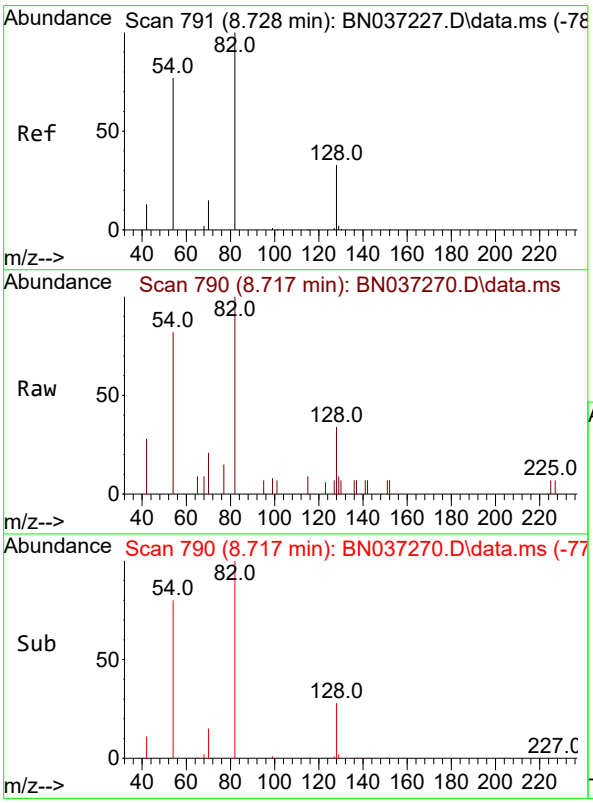
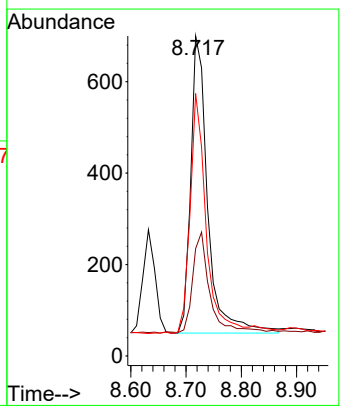
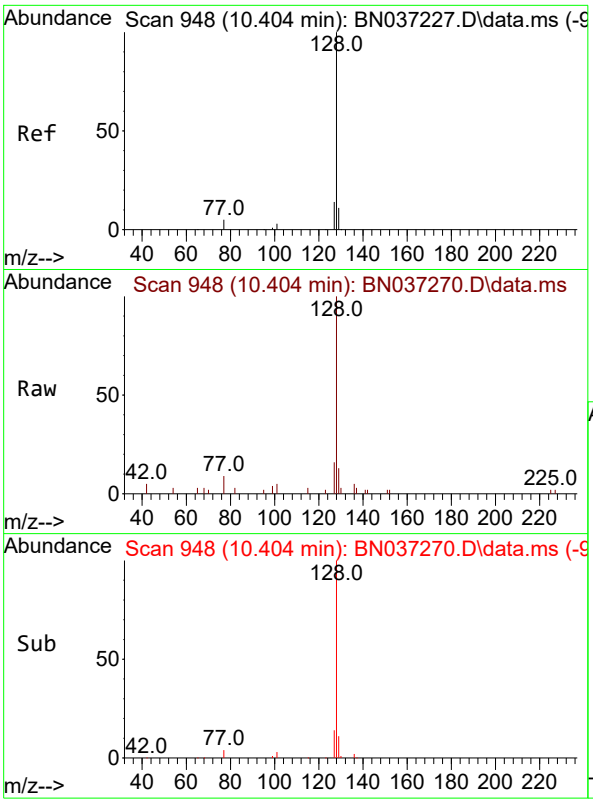


#8
Nitrobenzene-d5
Concen: 0.360 ng
RT: 8.717 min Scan# 790
Delta R.T. -0.011 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Tgt Ion: 82 Resp: 1391

Ion	Ratio	Lower	Upper
82	100		
128	33.6	31.2	46.8
54	82.0	63.3	94.9

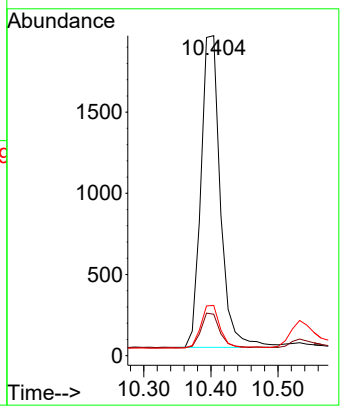




#9
Naphthalene
Concen: 0.341 ng
RT: 10.404 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Tgt Ion:128 Resp: 386

Ion	Ratio	Lower	Upper
128	100		
129	12.9	10.7	16.1
127	15.7	12.6	19.0



Instrument :
BNA_N
ClientSampleId :
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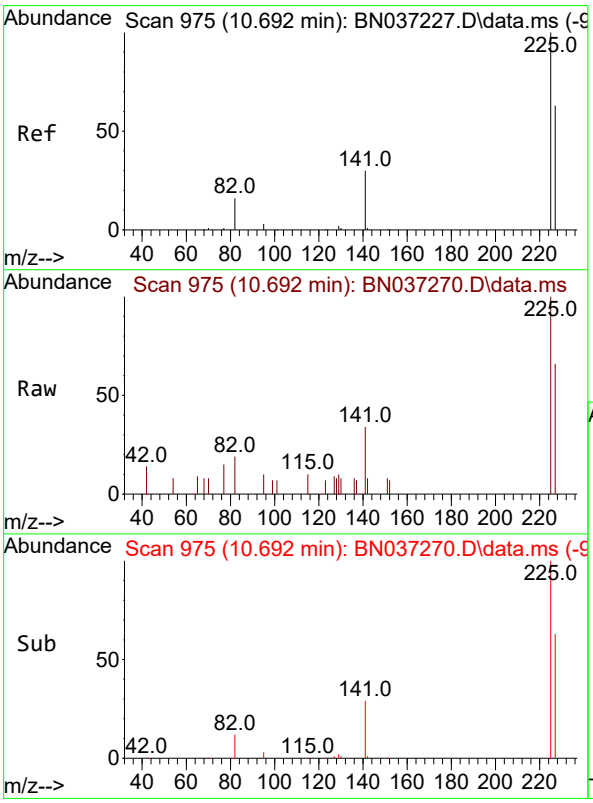
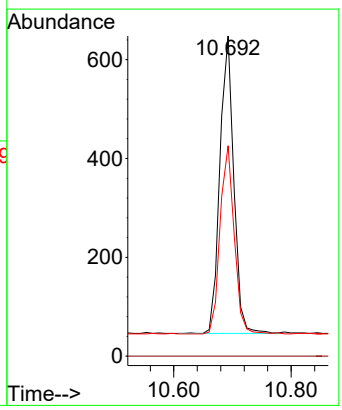
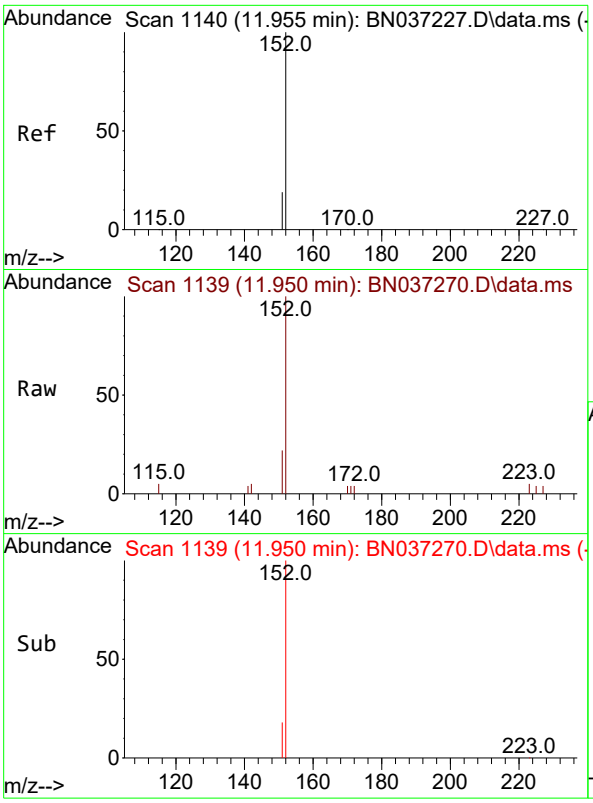


#10
Hexachlorobutadiene
Concen: 0.357 ng
RT: 10.692 min Scan# 975
Delta R.T. 0.000 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Tgt Ion:225 Resp: 984

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.4	49.2	73.8

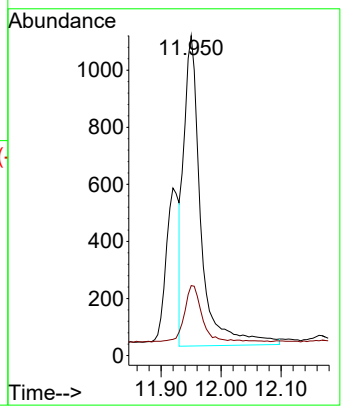




#11
2-Methylnaphthalene-d10
Concen: 0.410 ng m
RT: 11.950 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Tgt Ion:152 Resp: 215

Ion	Ratio	Lower	Upper
152	100		
151	18.4	17.9	26.9



Instrument :
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ClientSampleId :
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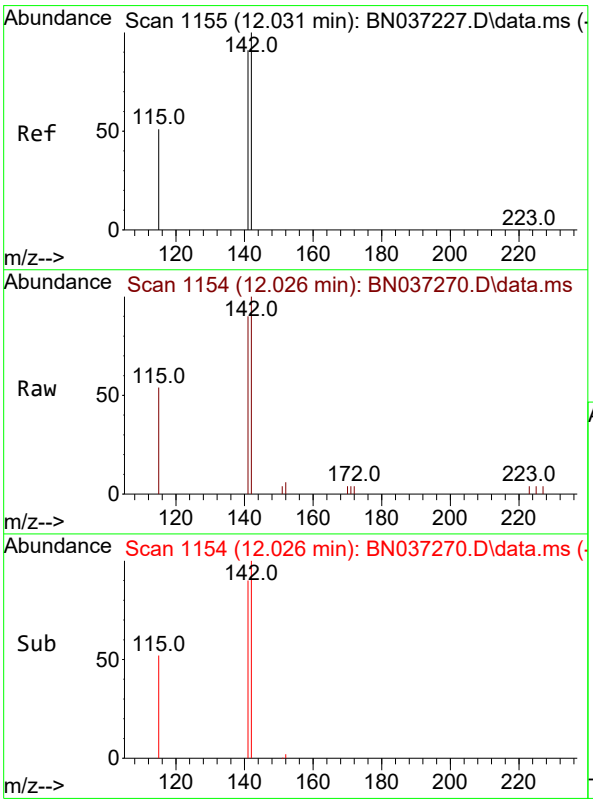
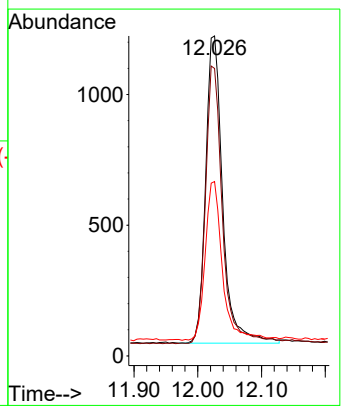
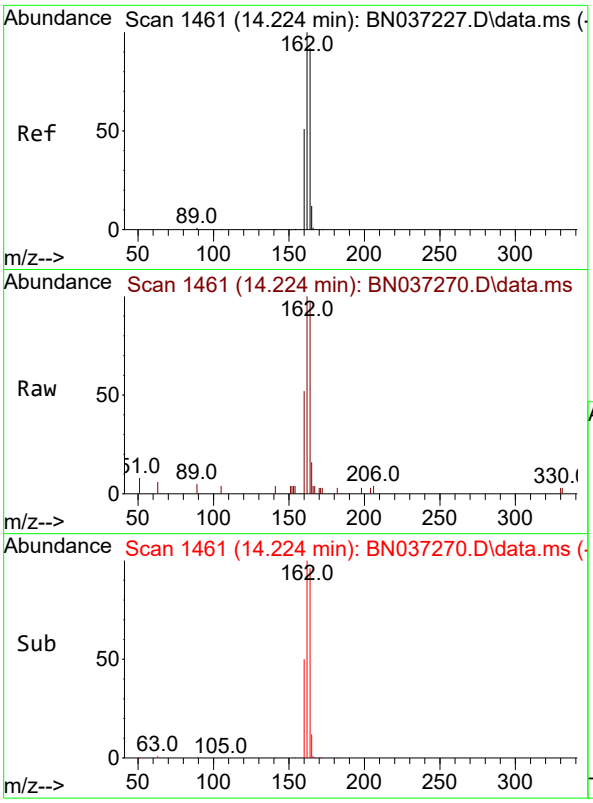


#12
2-Methylnaphthalene
Concen: 0.317 ng
RT: 12.026 min Scan# 1154
Delta R.T. -0.005 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Tgt Ion:142 Resp: 2180

Ion	Ratio	Lower	Upper
142	100		
141	89.9	73.0	109.6
115	54.5	43.3	64.9

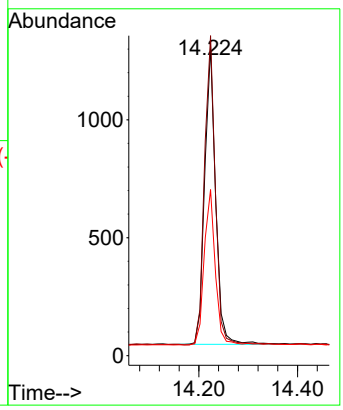




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Tgt Ion:164 Resp: 194

Ion	Ratio	Lower	Upper
164	100		
162	103.5	86.7	130.1
160	53.7	45.8	68.6



Instrument :
BNA_N
ClientSampleId :
PB168458BS

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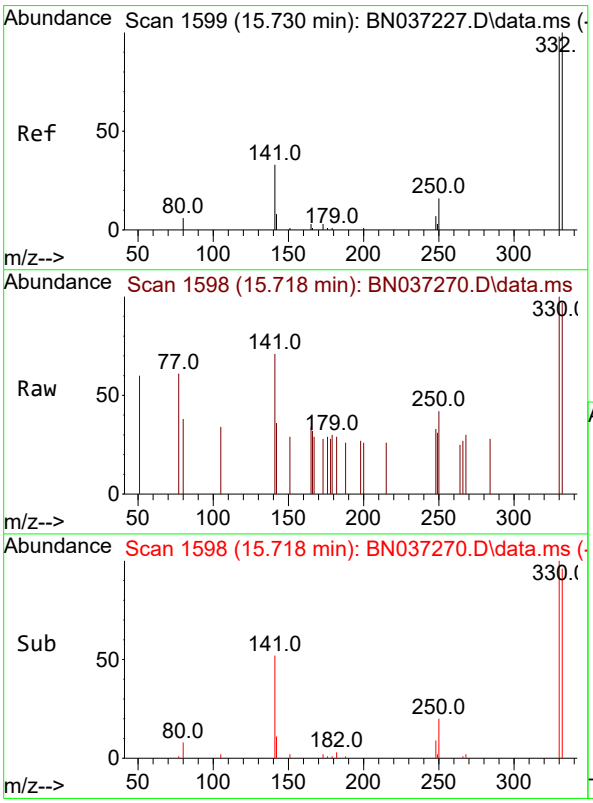
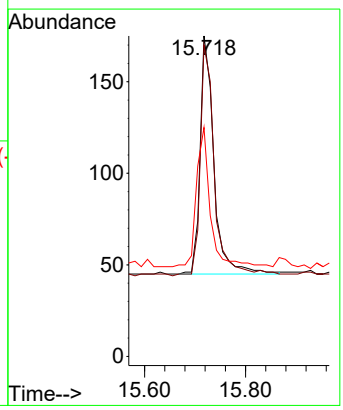
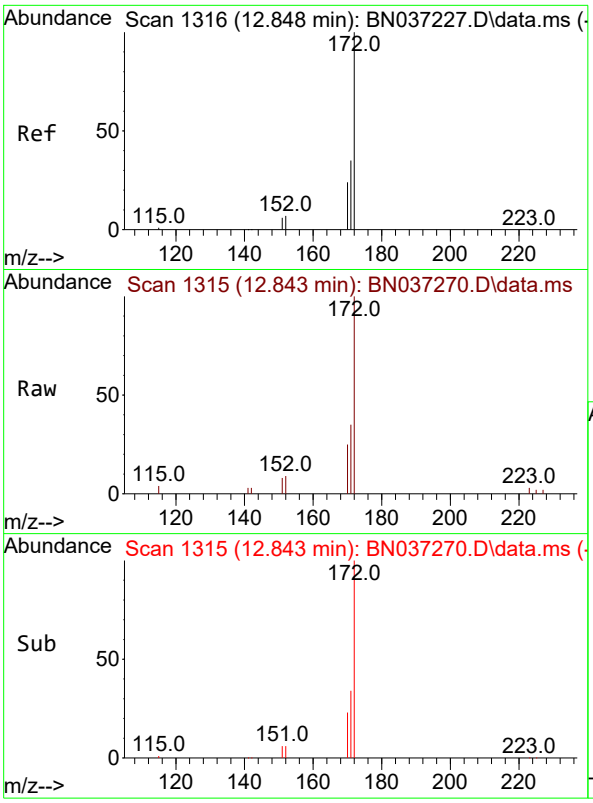


#14
2,4,6-Tribromophenol
Concen: 0.306 ng
RT: 15.718 min Scan# 1598
Delta R.T. -0.012 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Tgt Ion:330 Resp: 247

Ion	Ratio	Lower	Upper
330	100		
332	100.8	74.9	112.3
141	57.9	45.1	67.7

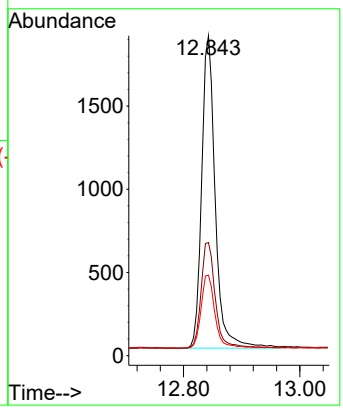




#15
2-Fluorobiphenyl
Concen: 0.373 ng
RT: 12.843 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Tgt Ion:172 Resp: 304

Ion	Ratio	Lower	Upper
172	100		
171	35.4	29.8	44.8
170	25.1	21.1	31.7



Instrument :
BNA_N
ClientSampleId :
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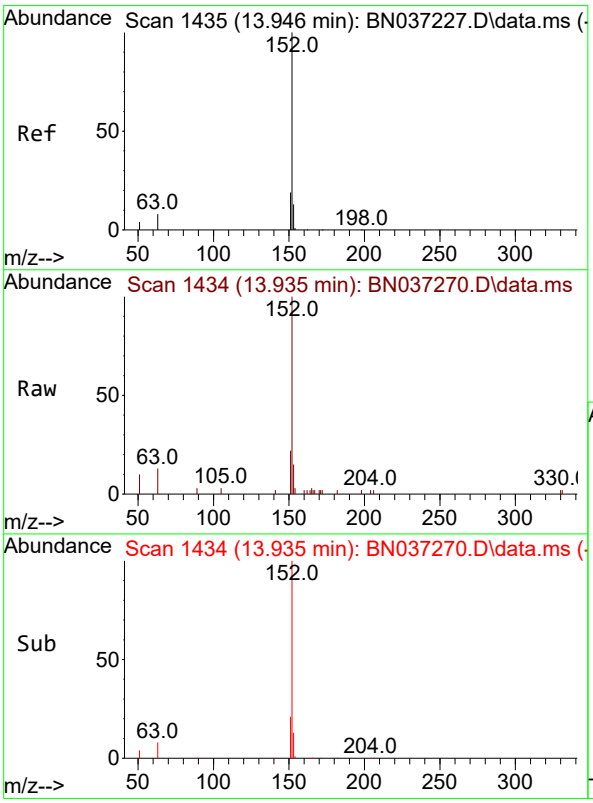
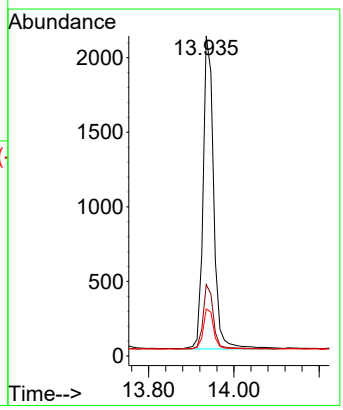
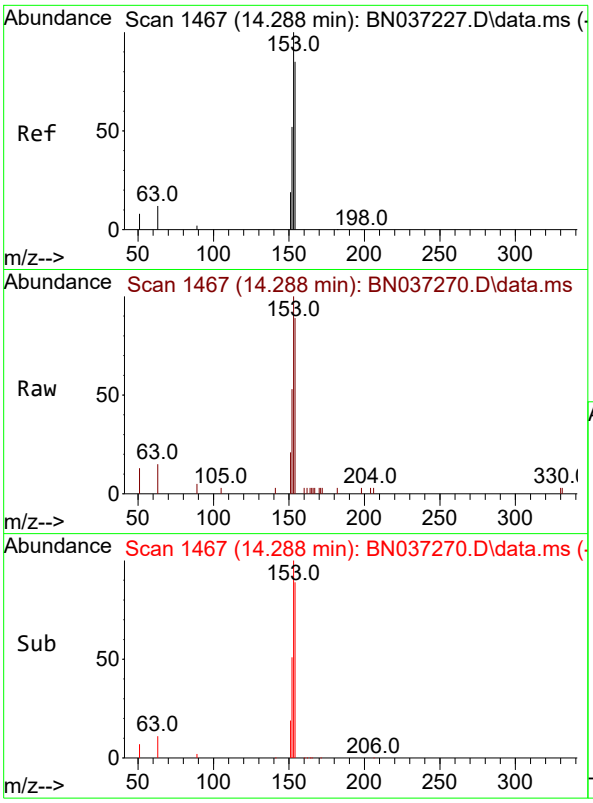


#16
Acenaphthylene
Concen: 0.379 ng
RT: 13.935 min Scan# 1434
Delta R.T. -0.011 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Tgt Ion:152 Resp: 3608

Ion	Ratio	Lower	Upper
152	100		
151	19.7	15.7	23.5
153	12.9	10.7	16.1

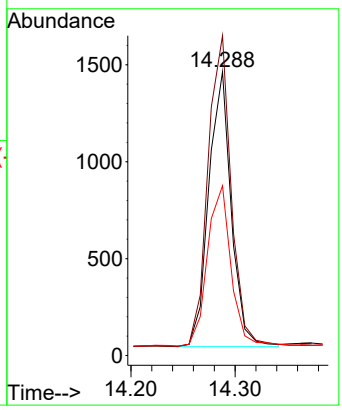




#17
Acenaphthene
Concen: 0.346 ng
RT: 14.288 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Tgt Ion:154 Resp: 212

Ion	Ratio	Lower	Upper
154	100		
153	116.9	94.6	141.8
152	61.9	49.6	74.4



Instrument :
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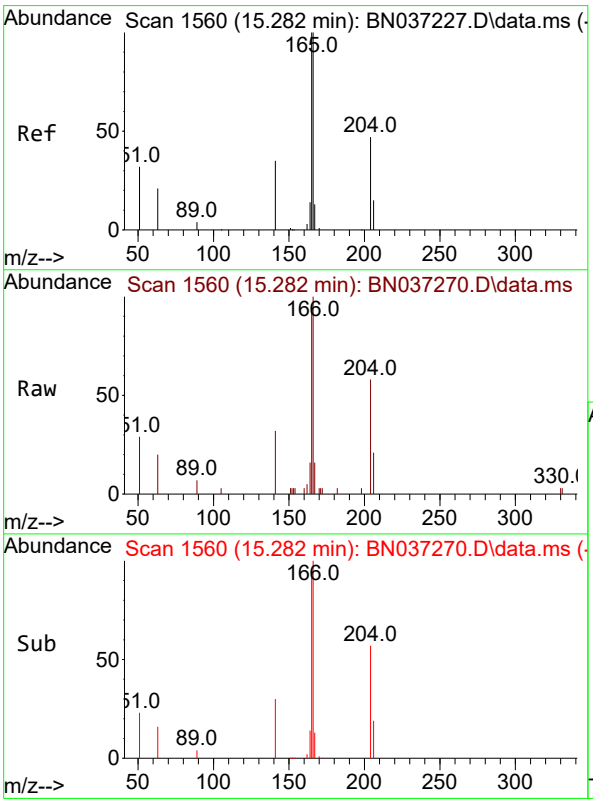
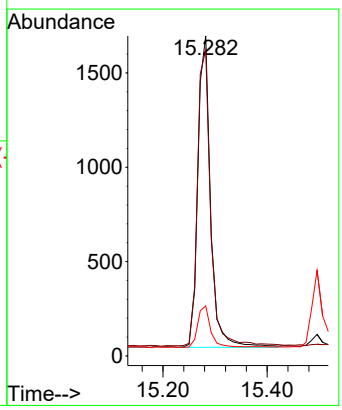
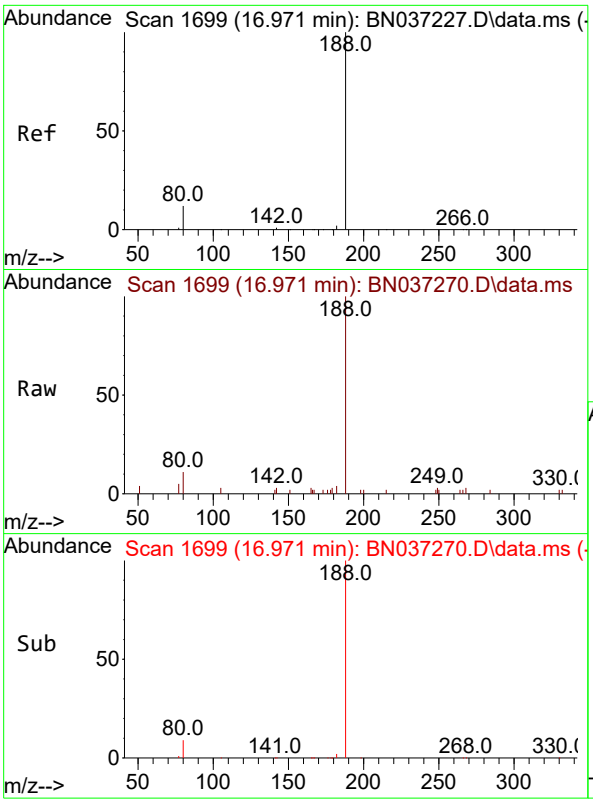


#18
Fluorene
Concen: 0.354 ng
RT: 15.282 min Scan# 1560
Delta R.T. 0.000 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Tgt Ion:166 Resp: 2799

Ion	Ratio	Lower	Upper
166	100		
165	98.9	79.8	119.6
167	13.6	10.8	16.2

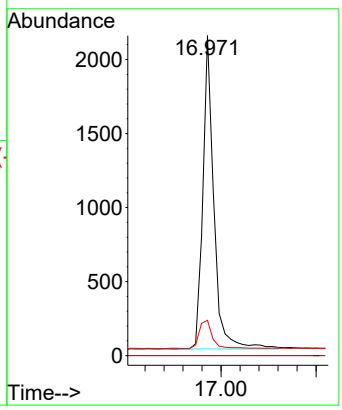




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Tgt Ion:188 Resp: 341

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.1	12.2	18.4#



Instrument :
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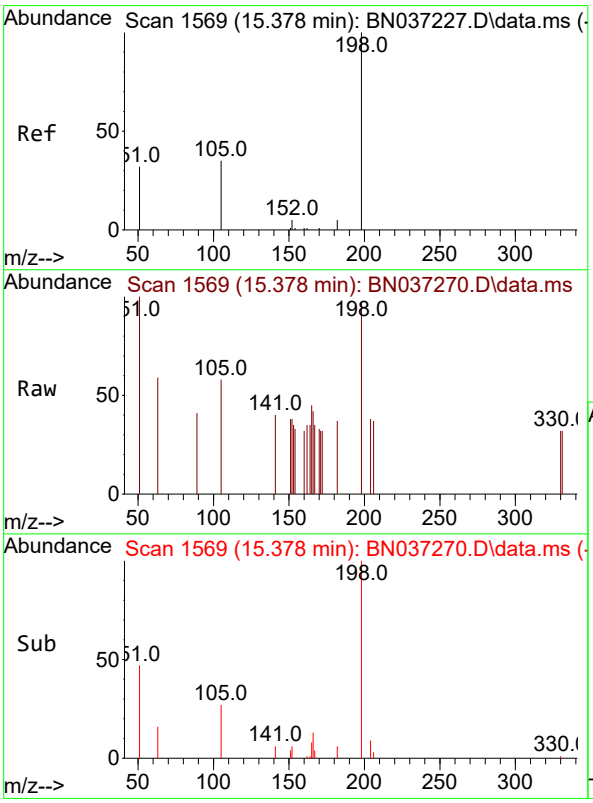
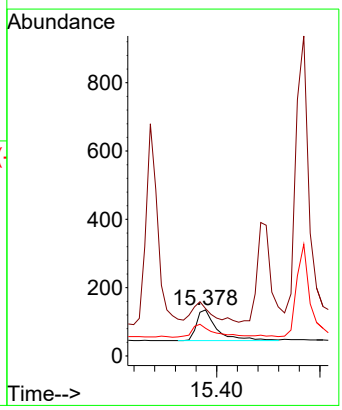
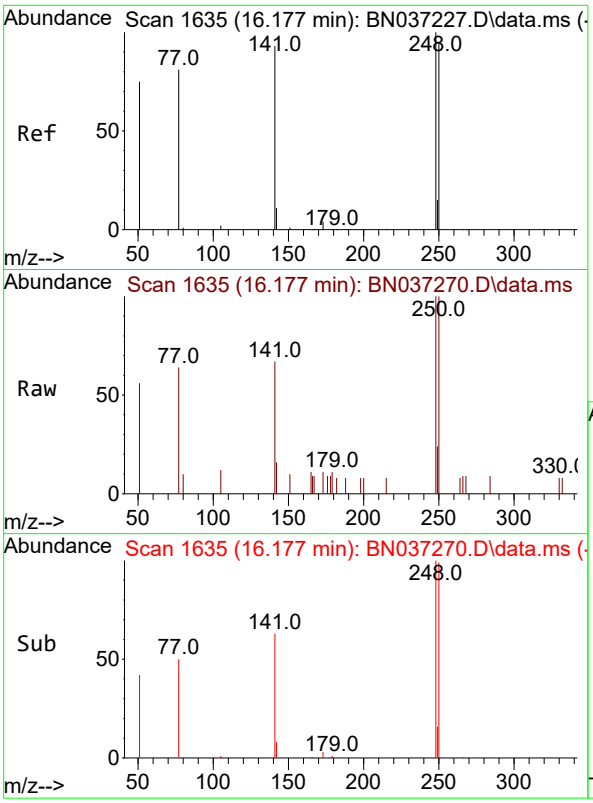


#20
4,6-Dinitro-2-methylphenol
Concen: 0.394 ng
RT: 15.378 min Scan# 1569
Delta R.T. 0.000 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Tgt Ion:198 Resp: 248

Ion	Ratio	Lower	Upper
198	100		
51	103.0	111.2	166.8#
105	60.0	54.0	81.0





#21
4-Bromophenyl-phenylether
Concen: 0.374 ng
RT: 16.177 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Tgt Ion:248 Resp: 83(

Ion	Ratio	Lower	Upper
248	100		
250	99.6	76.8	115.2
141	66.7	75.6	113.4

Instrument :
BNA_N
ClientSampleId :
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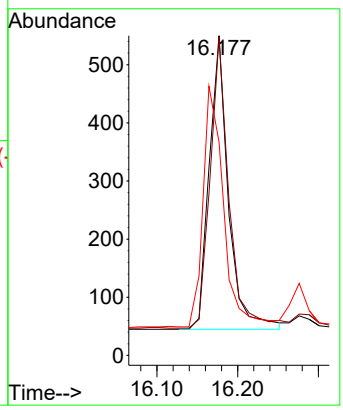
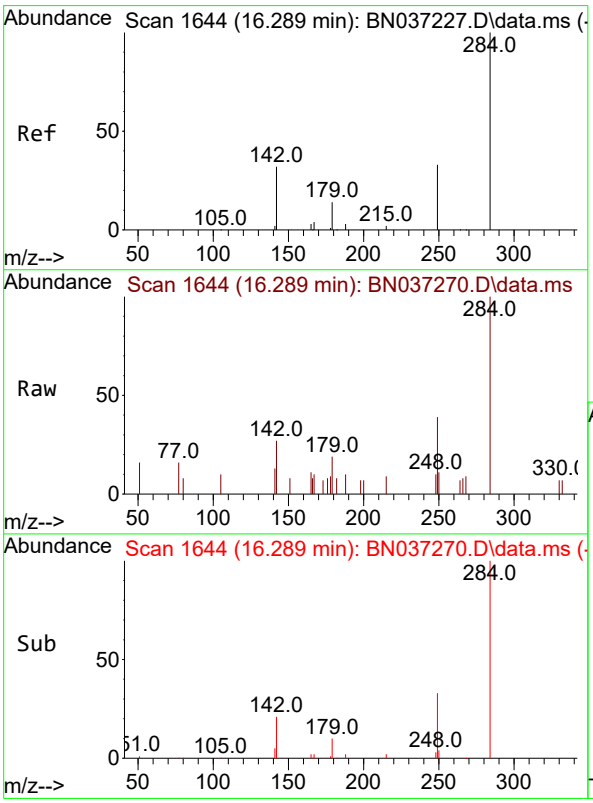
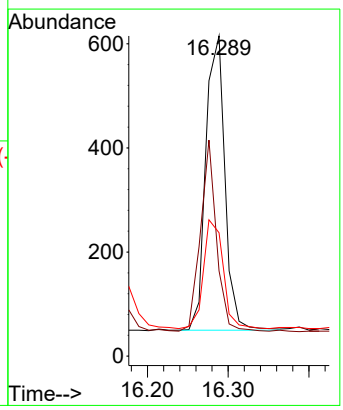


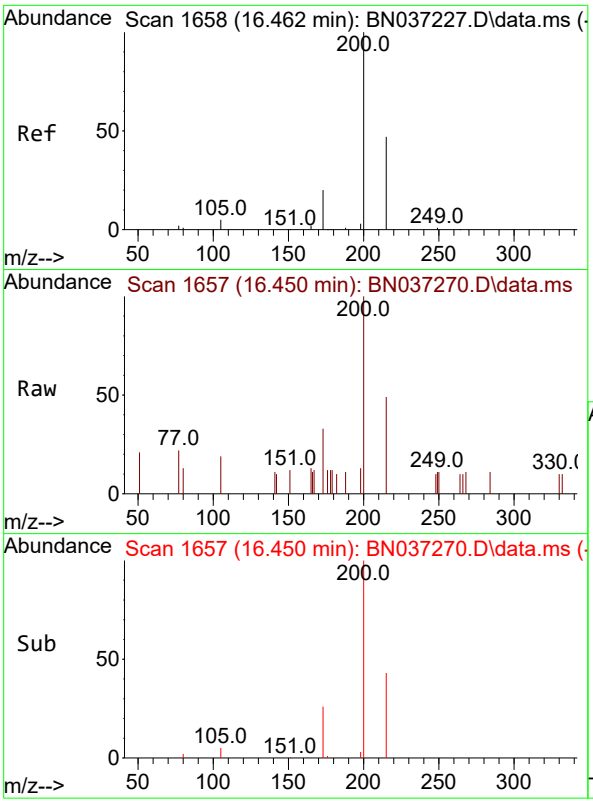


#22
Hexachlorobenzene
Concen: 0.360 ng
RT: 16.289 min Scan# 1644
Delta R.T. 0.000 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Tgt Ion:284 Resp: 927

Ion	Ratio	Lower	Upper
284	100		
142	54.5	43.8	65.6
249	38.4	28.4	42.6

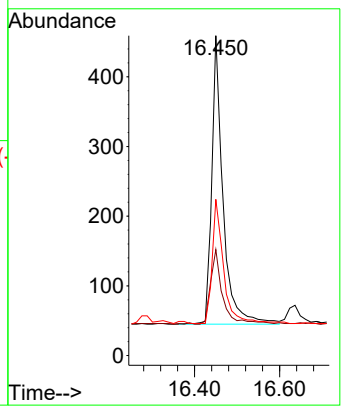




#23
Atrazine
Concen: 0.383 ng
RT: 16.450 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Tgt Ion:200 Resp: 76(

Ion	Ratio	Lower	Upper
200	100		
173	33.1	25.1	37.7
215	48.8	43.7	65.5



Instrument :
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ClientSampleId :
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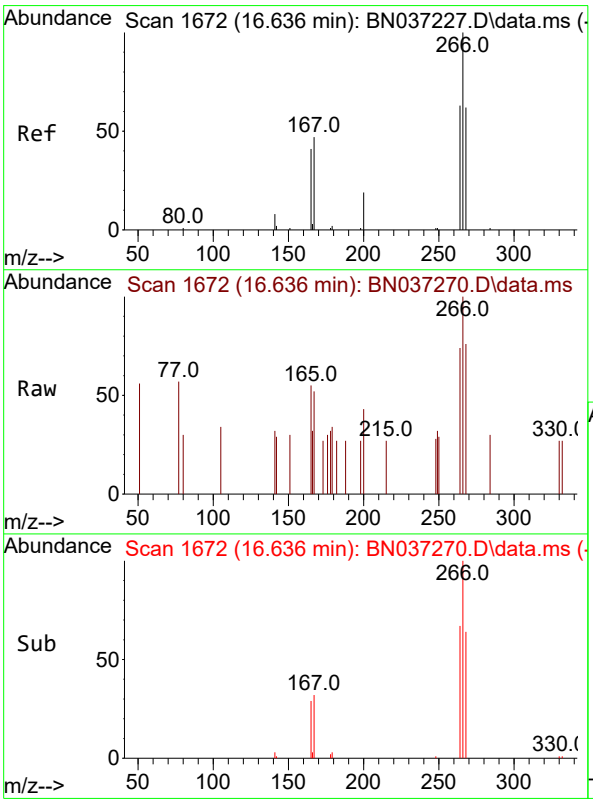
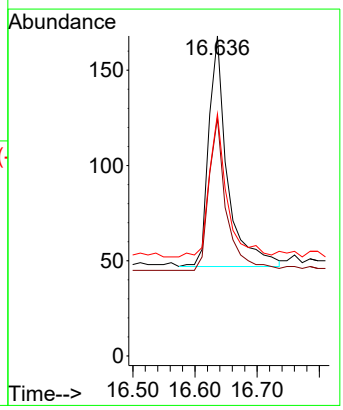
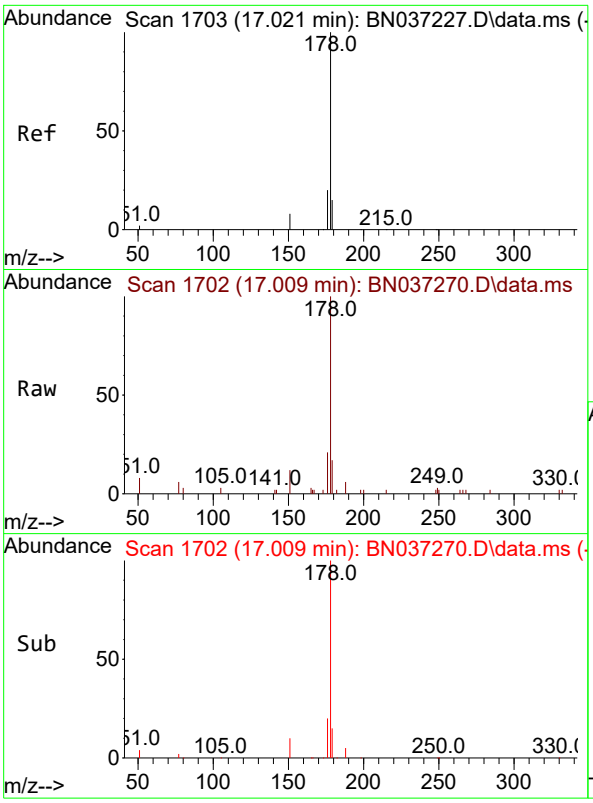


#24
Pentachlorophenol
Concen: 0.200 ng
RT: 16.636 min Scan# 1672
Delta R.T. 0.000 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Tgt Ion:266 Resp: 252

Ion	Ratio	Lower	Upper
266	100		
264	61.9	49.2	73.8
268	58.7	53.4	80.2

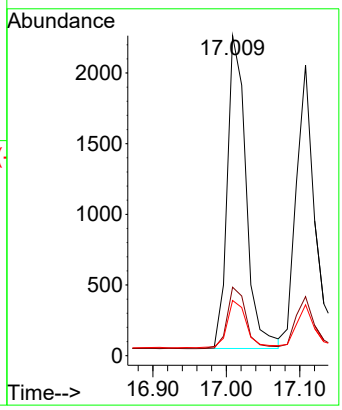




#25
Phenanthrene
Concen: 0.364 ng
RT: 17.009 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Tgt Ion:178 Resp: 393

Ion	Ratio	Lower	Upper
178	100		
176	19.8	16.3	24.5
179	15.9	12.6	18.8



Instrument :
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ClientSampleId :
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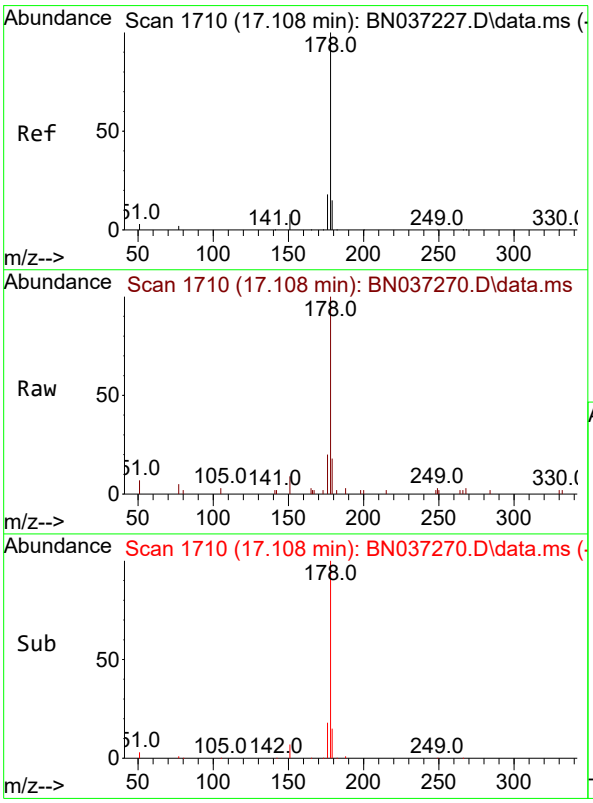
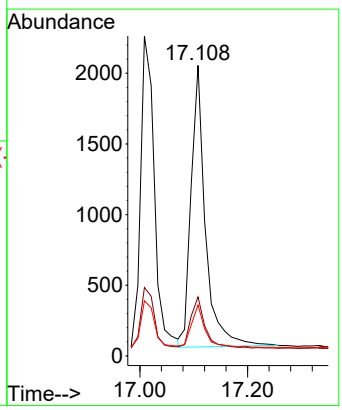
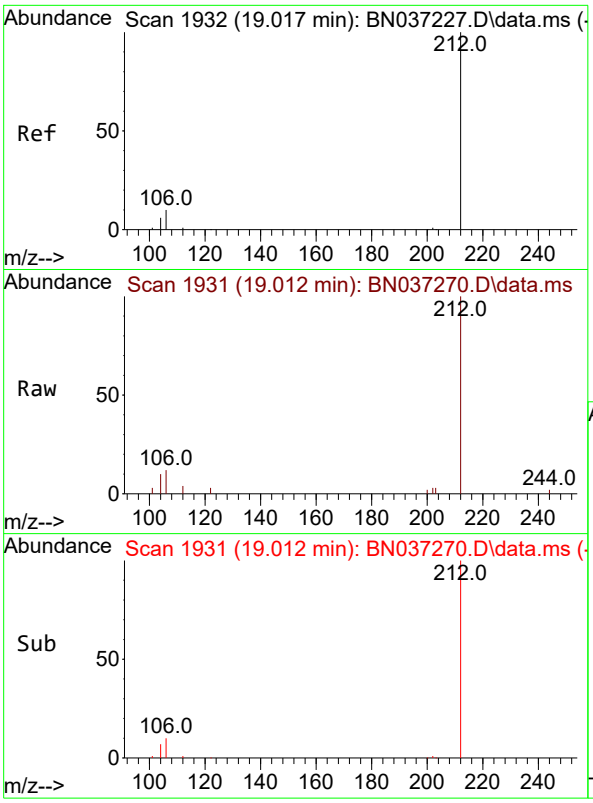


#26
Anthracene
Concen: 0.373 ng
RT: 17.108 min Scan# 1710
Delta R.T. 0.000 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Tgt Ion:178 Resp: 3696

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.1	22.7
179	14.5	12.4	18.6

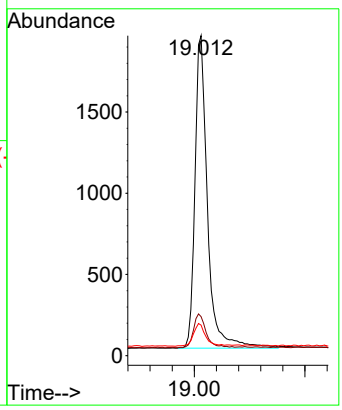




#27
Fluoranthene-d10
Concen: 0.340 ng
RT: 19.012 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Tgt Ion:212 Resp: 303

Ion	Ratio	Lower	Upper
212	100		
106	10.8	9.3	13.9
104	7.3	5.7	8.5



Instrument :
BNA_N
ClientSampleId :
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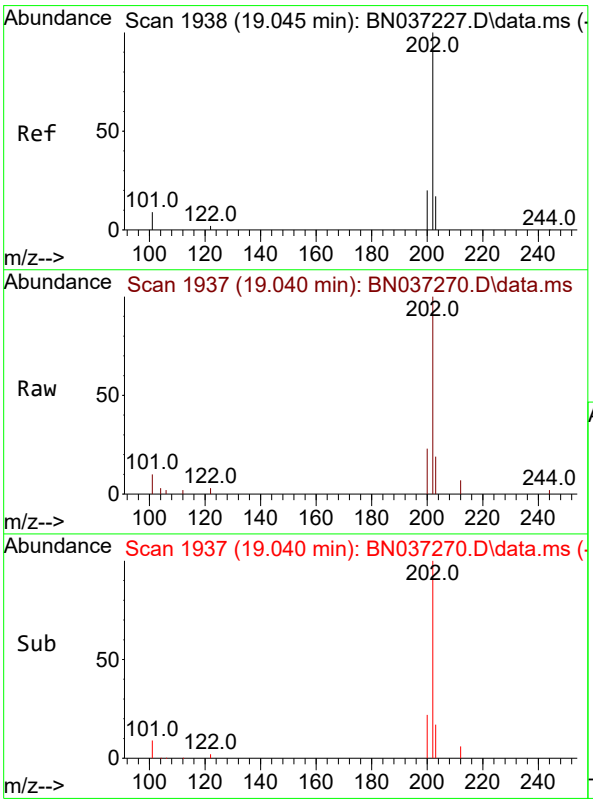
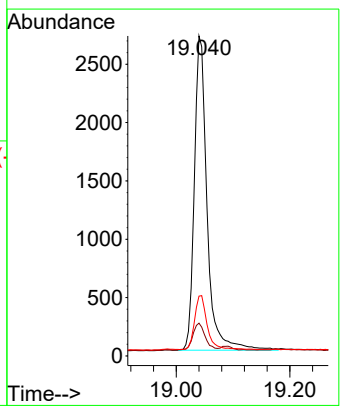
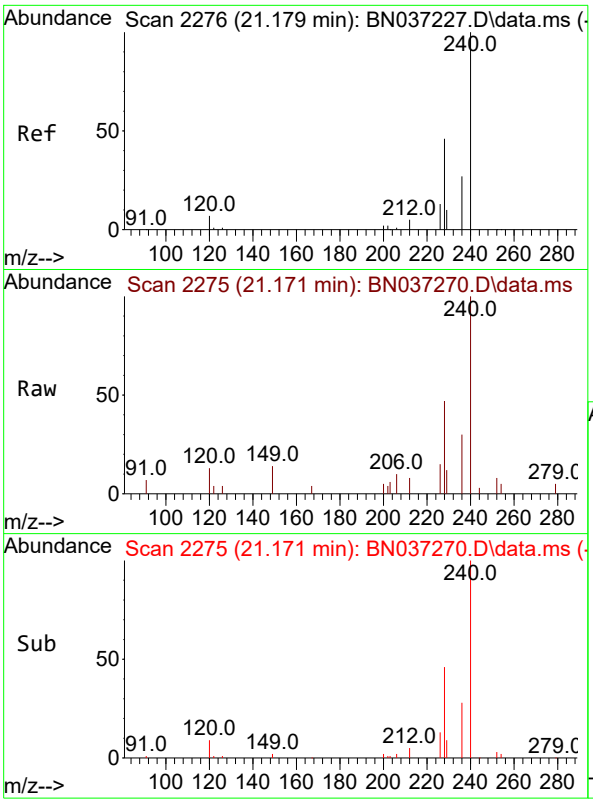


#28
Fluoranthene
Concen: 0.331 ng
RT: 19.040 min Scan# 1937
Delta R.T. -0.005 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Tgt Ion:202 Resp: 4192

Ion	Ratio	Lower	Upper
202	100		
101	8.3	7.1	10.7
203	17.2	13.0	19.6

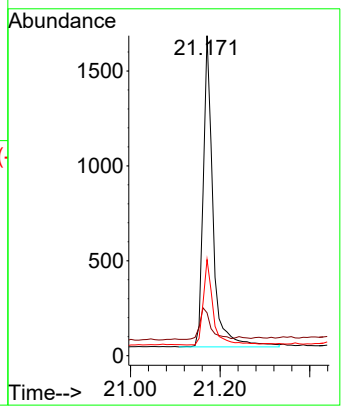




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.171 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Tgt Ion:240 Resp: 249

Ion	Ratio	Lower	Upper
240	100		
120	13.4	11.3	16.9
236	30.0	24.4	36.6



Instrument :
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ClientSampleId :
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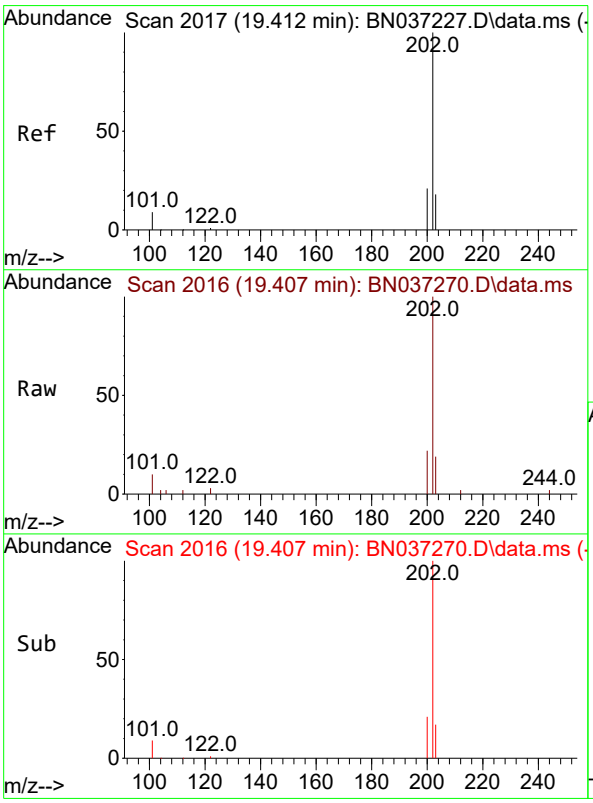
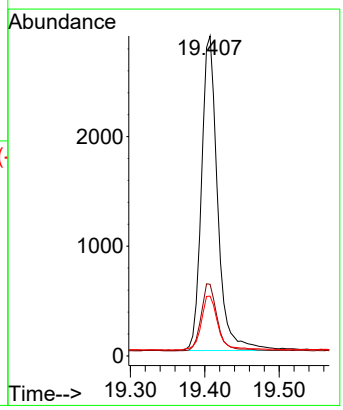
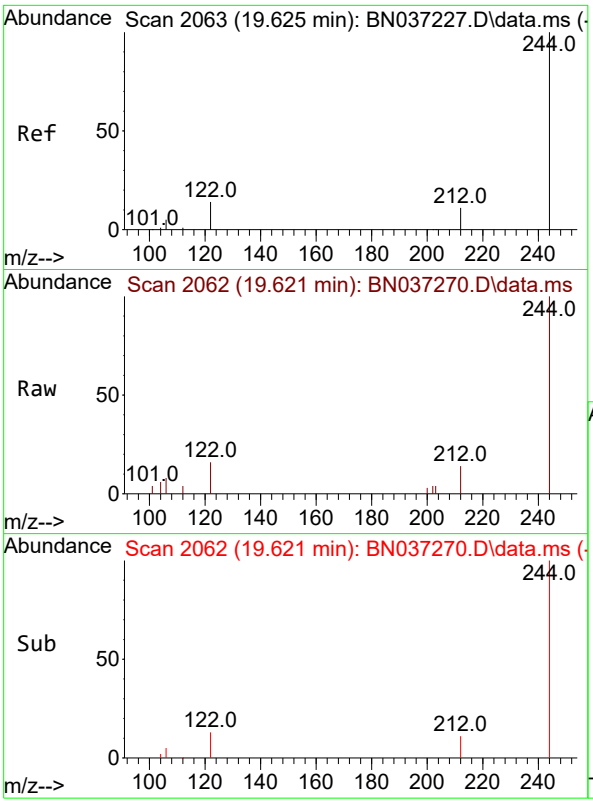


#30
Pyrene
Concen: 0.368 ng
RT: 19.407 min Scan# 2016
Delta R.T. -0.005 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Tgt Ion:202 Resp: 4321

Ion	Ratio	Lower	Upper
202	100		
200	21.5	17.2	25.8
203	18.0	14.3	21.5

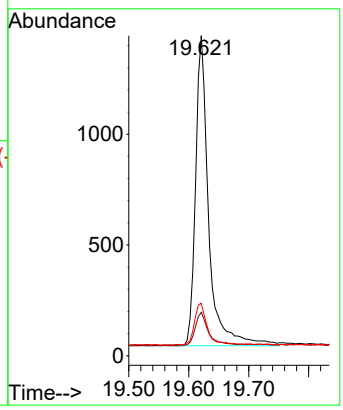




#31
Terphenyl-d14
Concen: 0.378 ng
RT: 19.621 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Tgt Ion:244 Resp: 213

Ion	Ratio	Lower	Upper
244	100		
212	13.6	12.2	18.2
122	16.4	14.3	21.5



Instrument :
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ClientSampleId :
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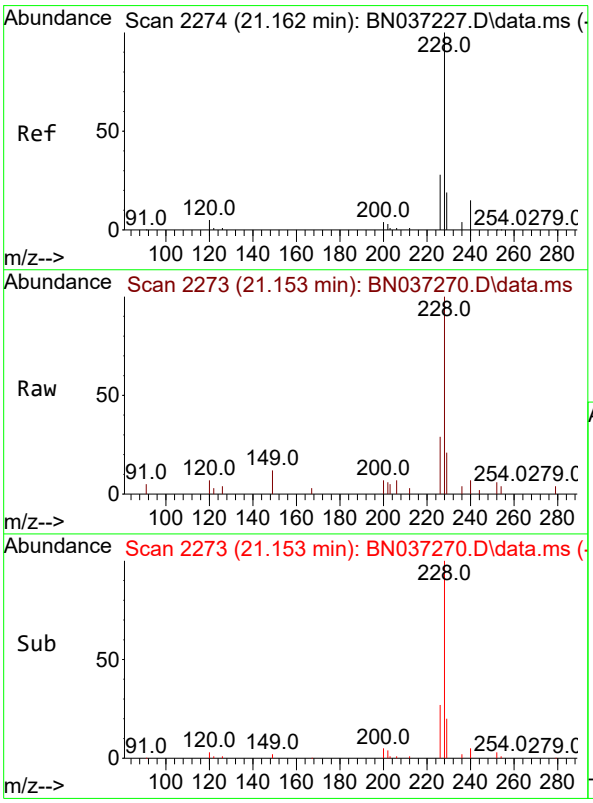
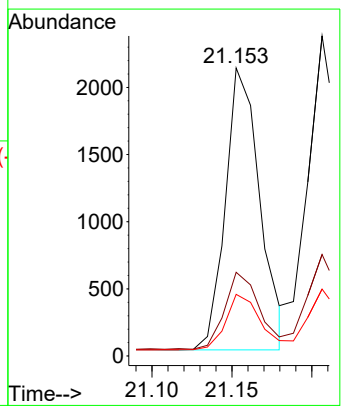
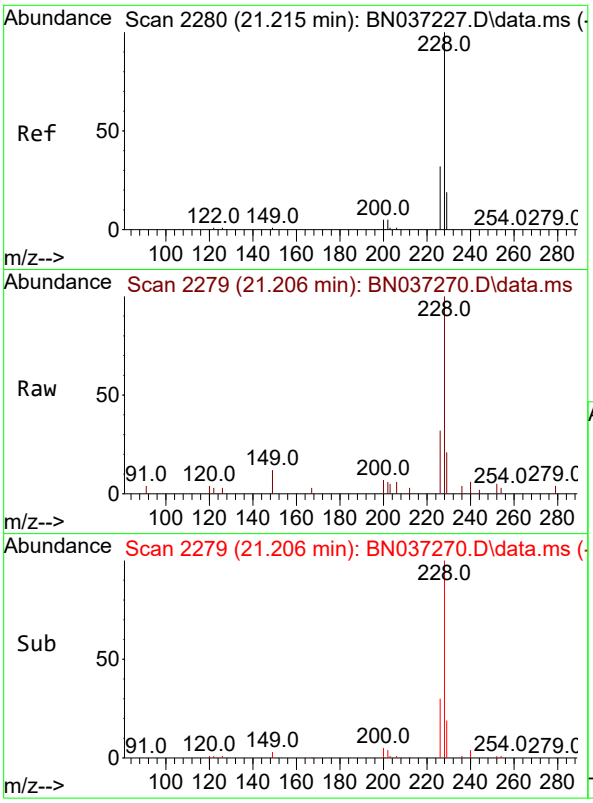


#32
Benzo(a)anthracene
Concen: 0.375 ng
RT: 21.153 min Scan# 2273
Delta R.T. -0.009 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Tgt Ion:228 Resp: 3158

Ion	Ratio	Lower	Upper
228	100		
226	29.1	23.8	35.8
229	21.4	17.0	25.4

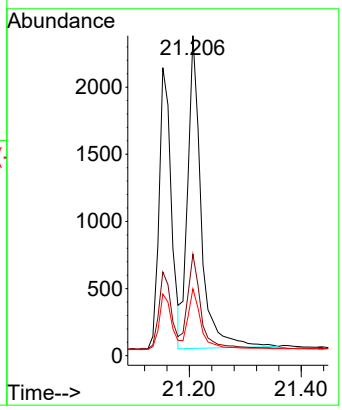




#33
Chrysene
Concen: 0.369 ng
RT: 21.206 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Tgt Ion:228 Resp: 387

Ion	Ratio	Lower	Upper
228	100		
226	31.7	25.8	38.6
229	20.9	17.0	25.4



Instrument :
BNA_N
ClientSampleId :
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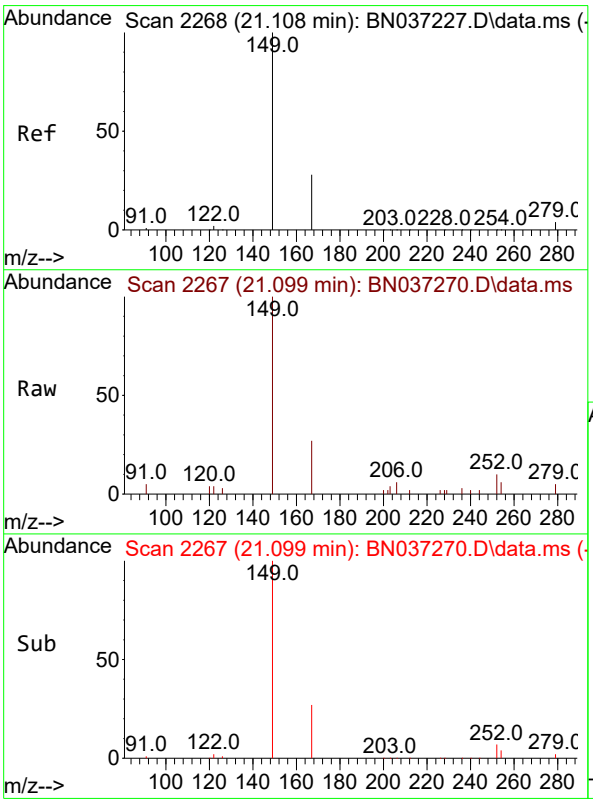
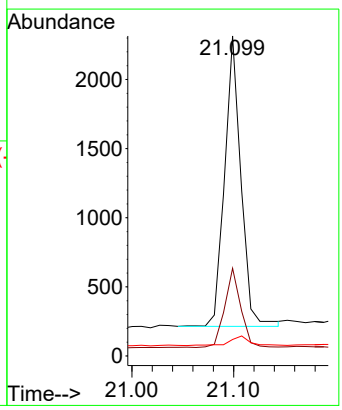
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025

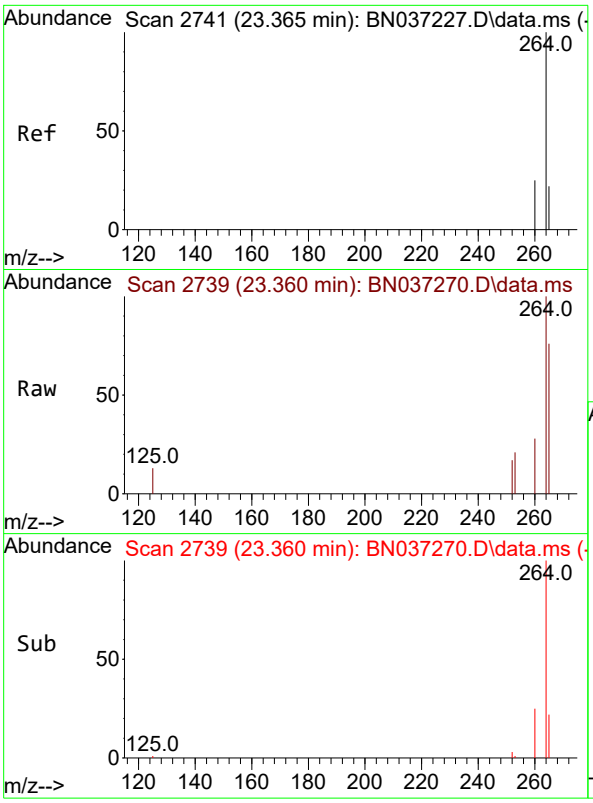


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.373 ng
RT: 21.099 min Scan# 2267
Delta R.T. -0.009 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Tgt Ion:149 Resp: 2339

Ion	Ratio	Lower	Upper
149	100		
167	26.5	21.3	31.9
279	3.8	3.3	4.9

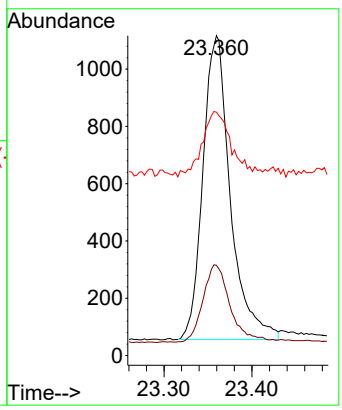




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.360 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Tgt Ion:264 Resp: 229

Ion	Ratio	Lower	Upper
264	100		
260	28.2	22.8	34.2
265	76.1	66.4	99.6



Instrument :
BNA_N
ClientSampleId :
PB168458BS

Manual Integrations
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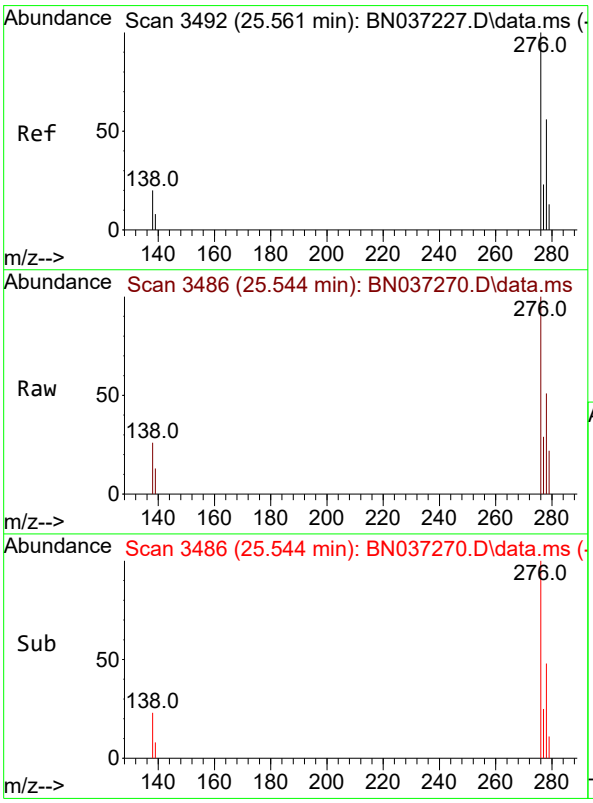
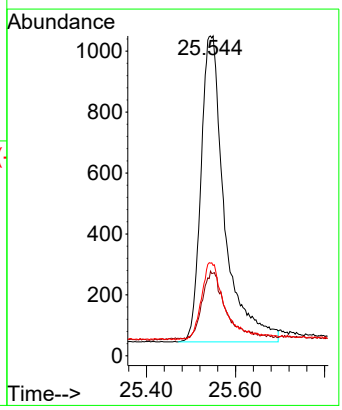
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025

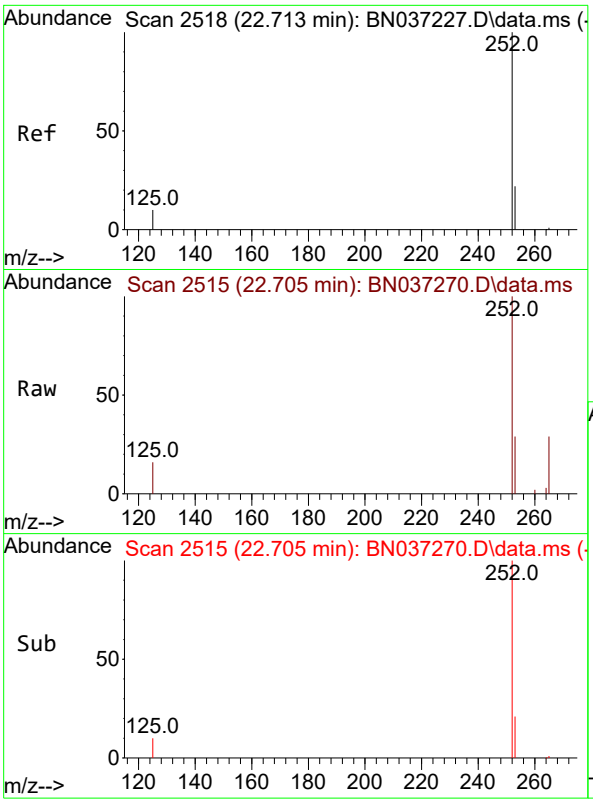


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.400 ng
RT: 25.544 min Scan# 3486
Delta R.T. -0.017 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Tgt Ion:276 Resp: 3705

Ion	Ratio	Lower	Upper
276	100		
138	21.3	16.8	25.2
277	24.4	19.5	29.3

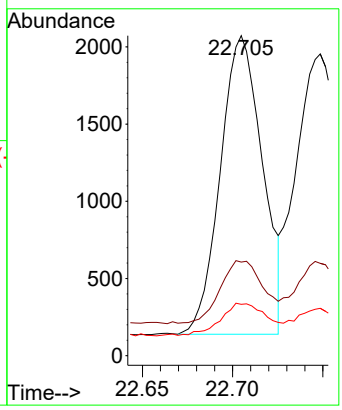




#37
Benzo(b)fluoranthene
Concen: 0.374 ng
RT: 22.705 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Tgt Ion:252 Resp: 314

Ion	Ratio	Lower	Upper
252	100		
253	29.2	24.9	37.3
125	16.1	12.9	19.3



Instrument :
BNA_N
ClientSampleId :
PB168458BS

Manual Integrations
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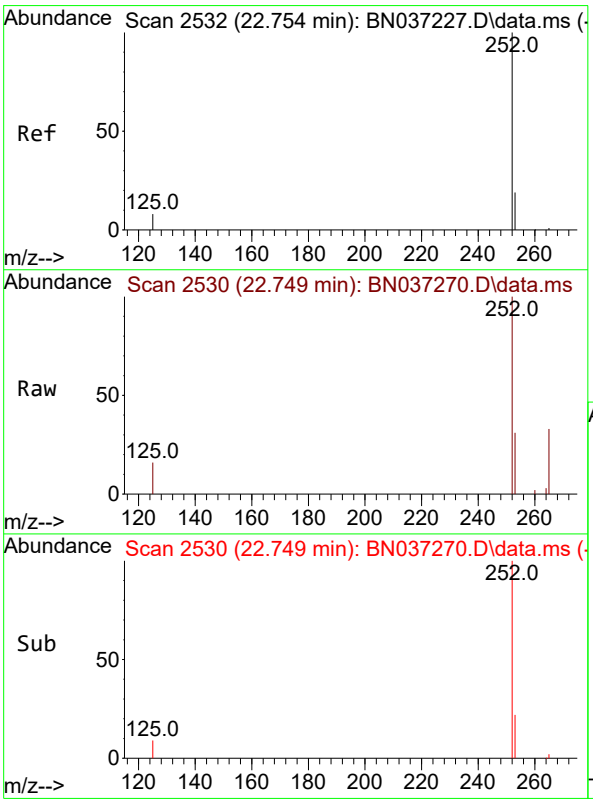
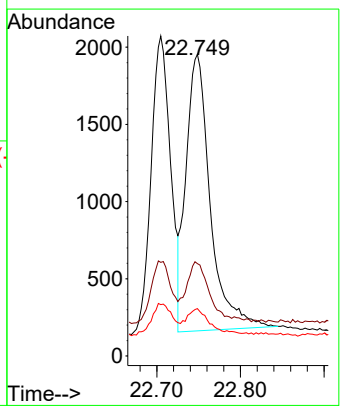
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025

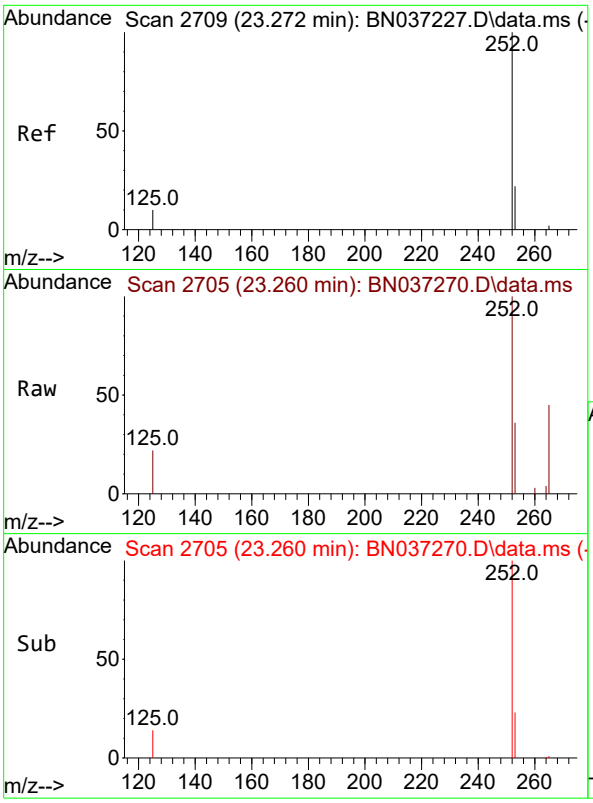


#38
Benzo(k)fluoranthene
Concen: 0.372 ng
RT: 22.749 min Scan# 2530
Delta R.T. -0.006 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Tgt Ion:252 Resp: 3614

Ion	Ratio	Lower	Upper
252	100		
253	30.6	24.6	37.0
125	15.7	13.4	20.2

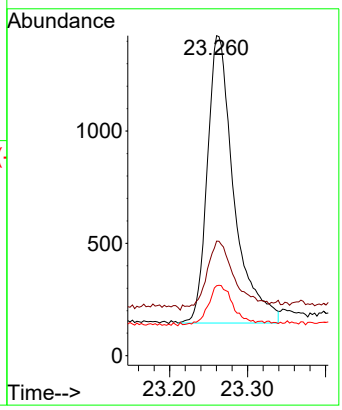




#39
Benzo(a)pyrene
Concen: 0.401 ng
RT: 23.260 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Tgt Ion:252 Resp: 303

Ion	Ratio	Lower	Upper
252	100		
253	35.8	29.4	44.2
125	21.8	16.2	24.2



Instrument :
BNA_N
ClientSampleId :
PB168458BS

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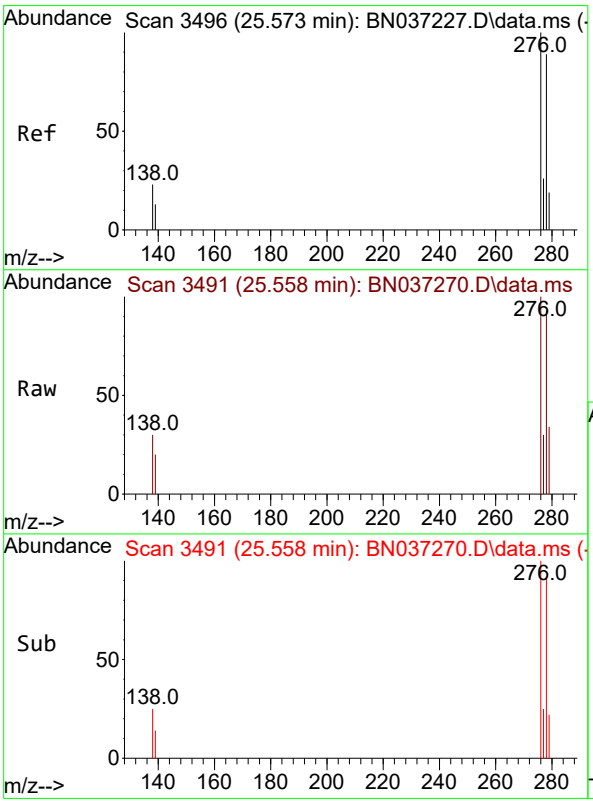
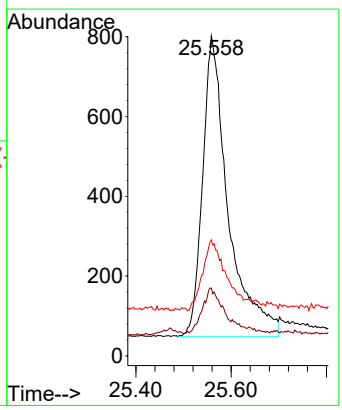
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025

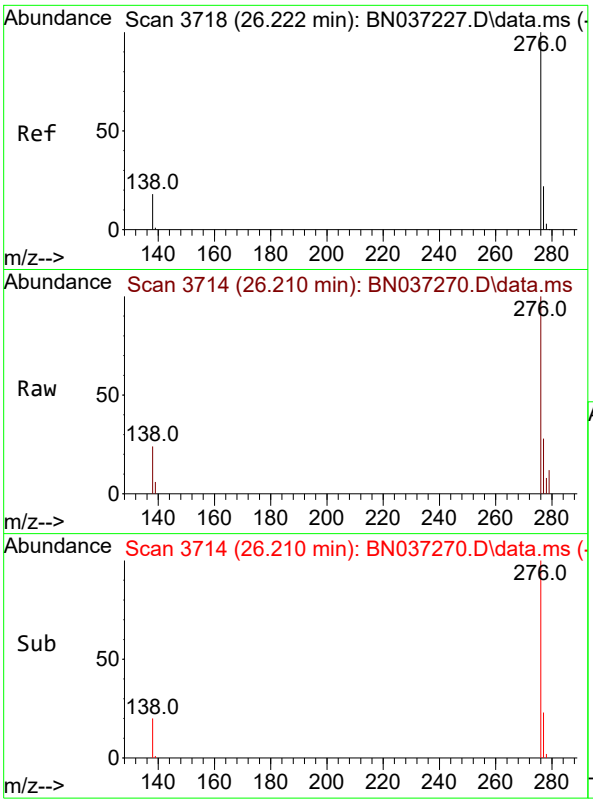


#40
Dibenzo(a,h)anthracene
Concen: 0.398 ng
RT: 25.558 min Scan# 3491
Delta R.T. -0.015 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Tgt Ion:278 Resp: 2809

Ion	Ratio	Lower	Upper
278	100		
139	21.2	17.8	26.6
279	36.3	31.3	46.9

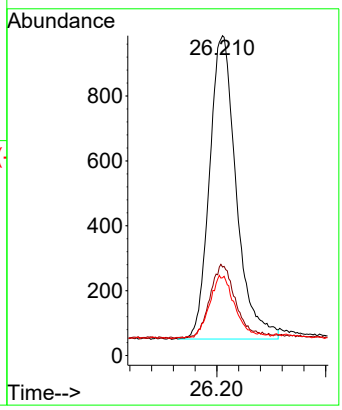




#41
Benzo(g,h,i)perylene
Concen: 0.370 ng
RT: 26.210 min Scan# 3
Delta R.T. -0.012 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Tgt Ion:276 Resp: 318

Ion	Ratio	Lower	Upper
276	100		
277	27.7	22.0	33.0
138	24.3	18.4	27.6



Instrument :
BNA_N
ClientSampleId :
PB168458BS

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/09/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/11/25
Client Sample ID:	TT191D1-20250609MS	SDG No.:	Q2299
Lab Sample ID:	Q2299-03MS	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037246.D	1	06/13/25 08:03	06/14/25 03:32	PB168458

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	2.10		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.26		30 - 150		66%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.35		30 - 150		86%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.29		55 - 111		72%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.30		53 - 106		74%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.42		58 - 132		105%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	952	7.575				
1146-65-2	Naphthalene-d8	2350	10.351				
15067-26-2	Acenaphthene-d10	1210	14.224				
1517-22-2	Phenanthrene-d10	2150	16.971				
1719-03-5	Chrysene-d12	1730	21.171				
1520-96-3	Perylene-d12	1760	23.363				

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_N\Data\BN061325\
Data File : BN037246.D
Acq On : 14 Jun 2025 03:32
Operator : RC/JU
Sample : Q2299-03MS
Misc :
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jun 14 04:22:07 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MS

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	952	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	2349	0.400	ng	#-0.01
13) Acenaphthene-d10	14.224	164	1209	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	2152	0.400	ng	0.00
29) Chrysene-d12	21.171	240	1734	0.400	ng	0.00
35) Perylene-d12	23.363	264	1757	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	294	0.126	ng	0.00
5) Phenol-d6	6.766	99	177	0.072	ng	0.00
8) Nitrobenzene-d5	8.728	82	665	0.286	ng	0.00
11) 2-Methylnaphthalene-d10	11.955	152	830m	0.263	ng	0.00
14) 2,4,6-Tribromophenol	15.730	330	173	0.345	ng	0.00
15) 2-Fluorobiphenyl	12.848	172	1503	0.296	ng	0.00
27) Fluoranthene-d10	19.017	212	1941	0.345	ng	0.00
31) Terphenyl-d14	19.621	244	1642	0.419	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.104	88	2754	2.109	ng	# 91
3) n-Nitrosodimethylamine	3.422	42	489	0.164	ng	99
6) bis(2-Chloroethyl)ether	7.011	93	689	0.312	ng	94
9) Naphthalene	10.404	128	2106	0.310	ng	98
10) Hexachlorobutadiene	10.692	225	492	0.297	ng	# 99
12) 2-Methylnaphthalene	12.031	142	1184	0.286	ng	97
16) Acenaphthylene	13.946	152	2092	0.353	ng	98
17) Acenaphthene	14.288	154	1223	0.320	ng	100
18) Fluorene	15.282	166	1616	0.329	ng	98
20) 4,6-Dinitro-2-methylph...	15.378	198	182	0.438	ng	88
21) 4-Bromophenyl-phenylether	16.177	248	506	0.361	ng	92
22) Hexachlorobenzene	16.289	284	539	0.332	ng	96
23) Atrazine	16.462	200	508	0.406	ng	97
24) Pentachlorophenol	16.636	266	556	0.698	ng	98
25) Phenanthrene	17.021	178	2496	0.366	ng	98
26) Anthracene	17.108	178	2343	0.375	ng	99
28) Fluoranthene	19.045	202	3009	0.377	ng	# 95
30) Pyrene	19.407	202	3076	0.377	ng	100
32) Benzo(a)anthracene	21.162	228	2465	0.421	ng	99
33) Chrysene	21.206	228	2864	0.393	ng	99
34) Bis(2-ethylhexyl)phtha...	21.099	149	1818	0.417	ng	# 98
36) Indeno(1,2,3-cd)pyrene	25.549	276	2816	0.397	ng	99
37) Benzo(b)fluoranthene	22.708	252	2482	0.386	ng	97
38) Benzo(k)fluoranthene	22.751	252	2823	0.381	ng	98
39) Benzo(a)pyrene	23.266	252	2344	0.405	ng	99
40) Dibenzo(a,h)anthracene	25.564	278	2000	0.371	ng	98
41) Benzo(g,h,i)perylene	26.219	276	2427	0.369	ng	97

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

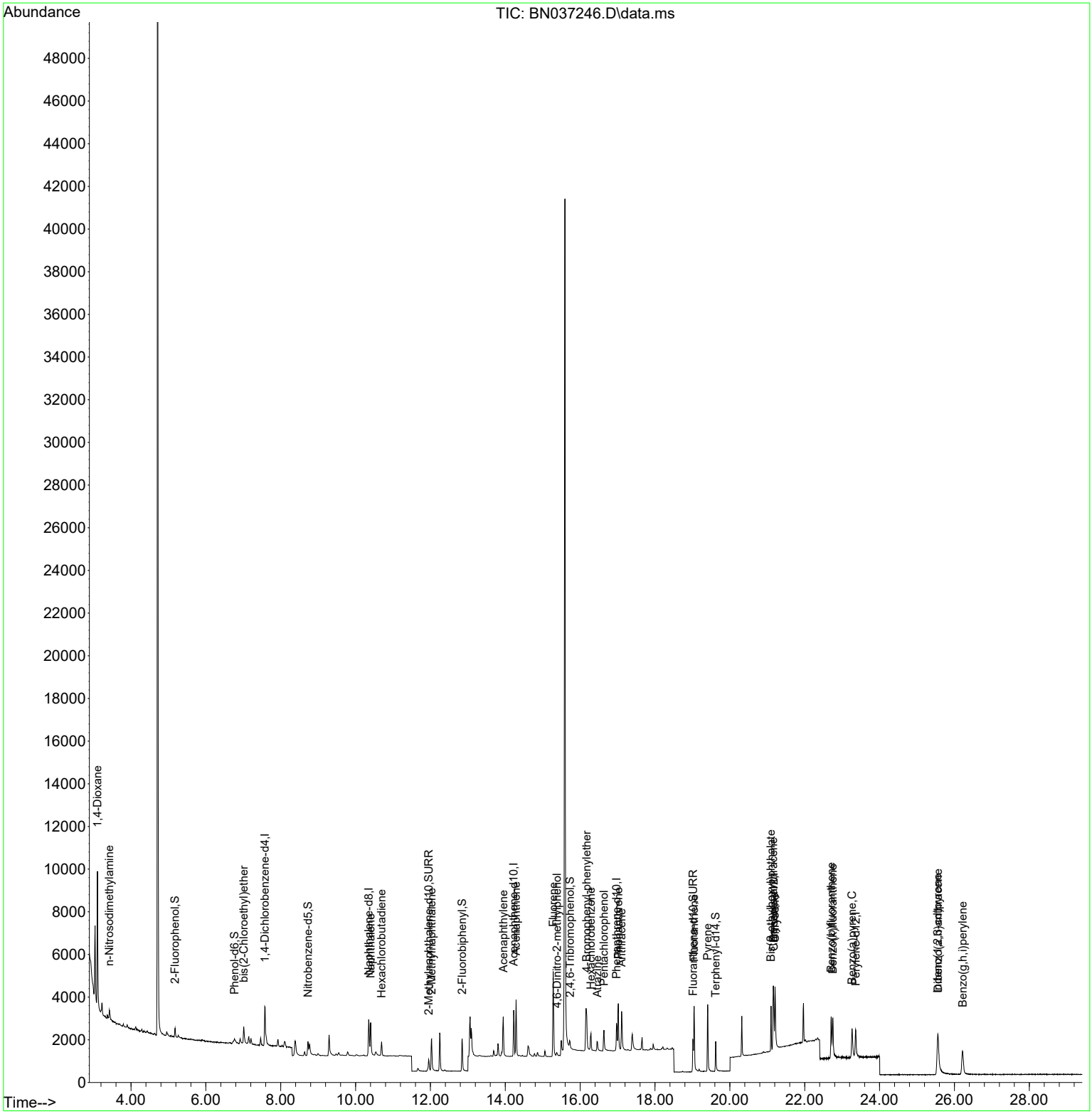
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037246.D
Acq On : 14 Jun 2025 03:32
Operator : RC/JU
Sample : Q2299-03MS
Misc :
ALS Vial : 25 Sample Multiplier: 1

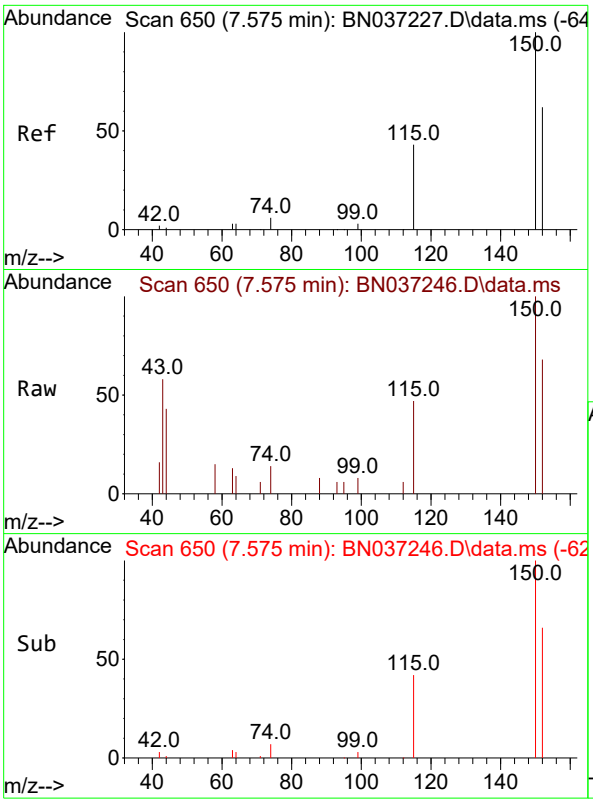
Quant Time: Jun 14 04:22:07 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MS

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025

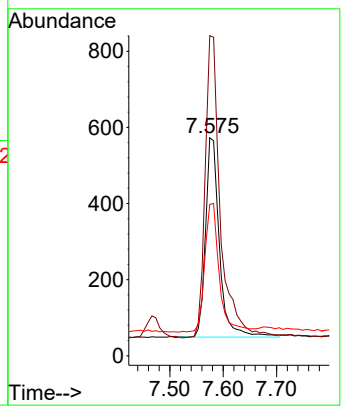




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Tgt Ion:152 Resp: 95

Ion	Ratio	Lower	Upper
152	100		
150	146.8	125.2	187.8
115	69.5	58.4	87.6



Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MS

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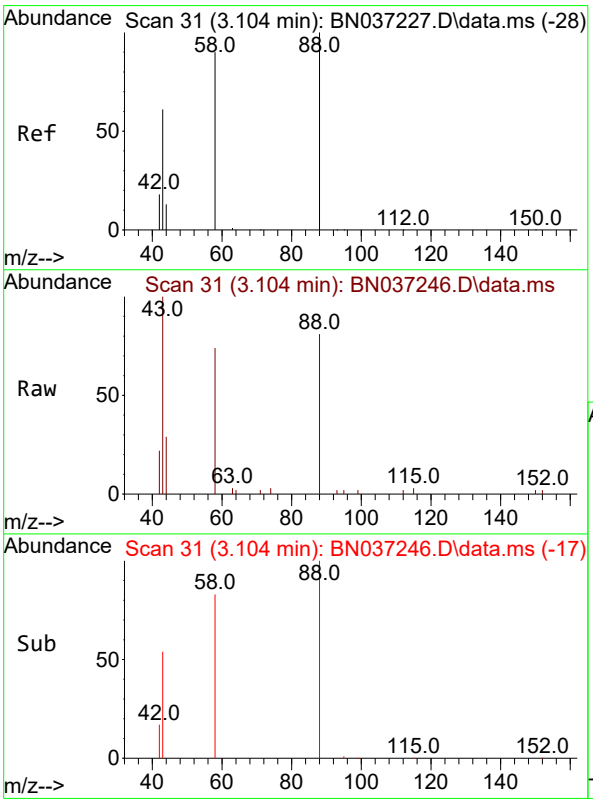
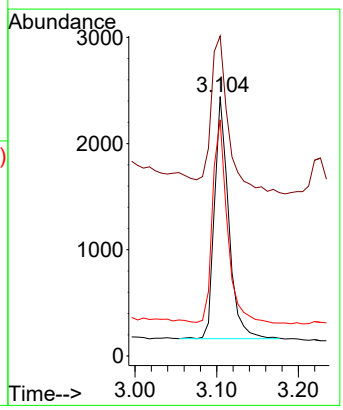
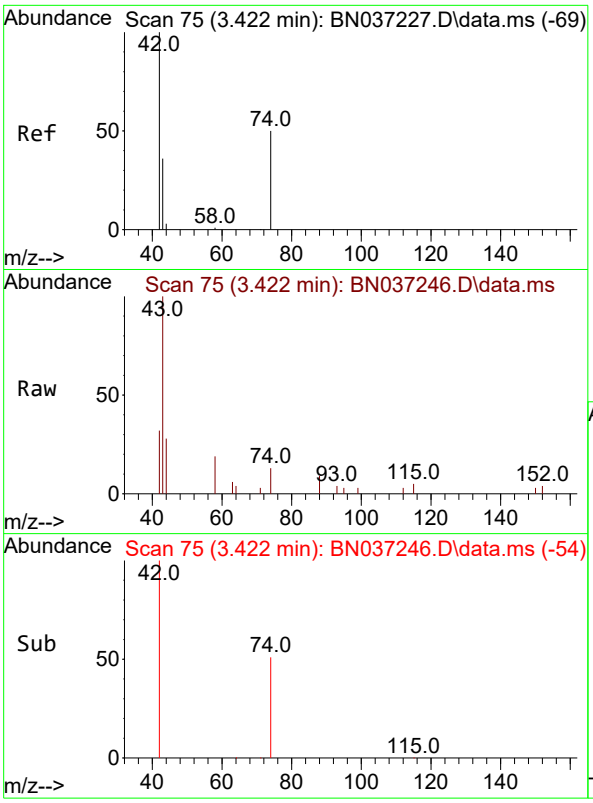


#2
1,4-Dioxane
Concen: 2.109 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Tgt Ion: 88 Resp: 2754

Ion	Ratio	Lower	Upper
88	100		
43	79.0	52.6	79.0#
58	88.0	73.5	110.3

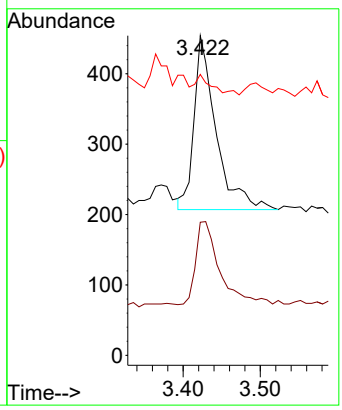




#3
n-Nitrosodimethylamine
Concen: 0.164 ng
RT: 3.422 min Scan# 7
Delta R.T. 0.000 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Tgt Ion: 42 Resp: 48

Ion	Ratio	Lower	Upper
42	100		
74	54.6	44.6	66.8
44	4.7	3.5	5.3



Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MS

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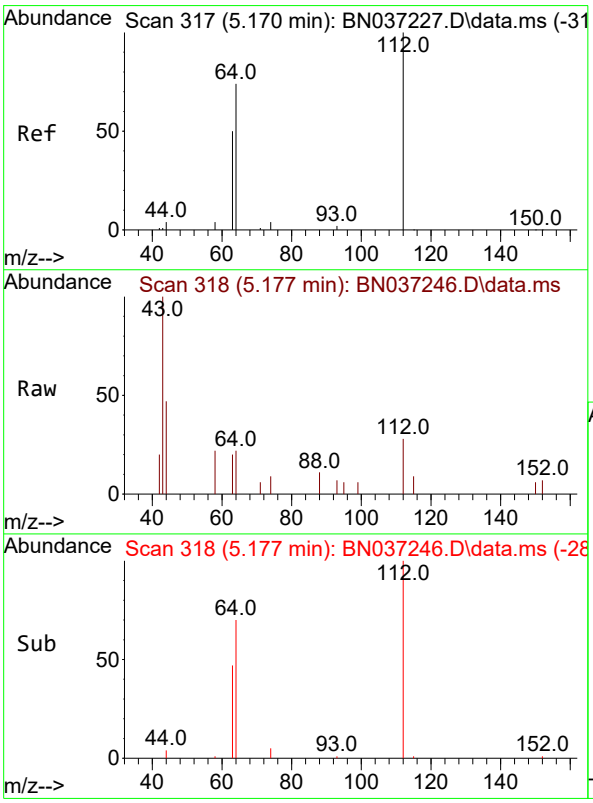
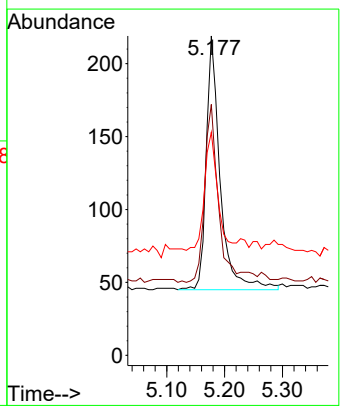
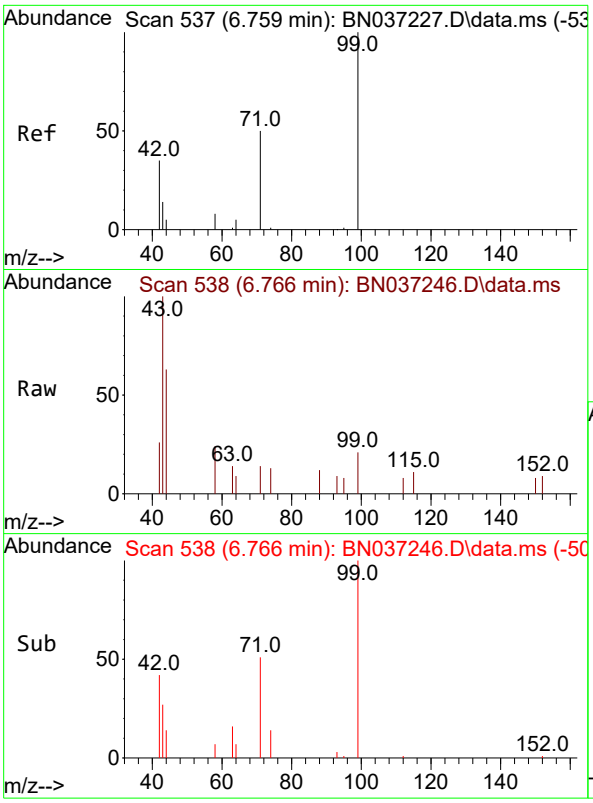


#4
2-Fluorophenol
Concen: 0.126 ng
RT: 5.177 min Scan# 318
Delta R.T. 0.007 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Tgt Ion:112 Resp: 294

Ion	Ratio	Lower	Upper
112	100		
64	67.7	57.2	85.8
63	43.5	39.8	59.6

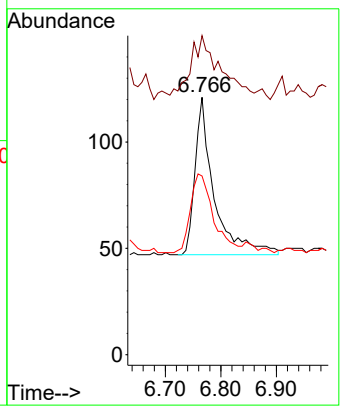




#5
Phenol-d6
Concen: 0.072 ng
RT: 6.766 min Scan# 5
Delta R.T. 0.007 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Tgt Ion: 99 Resp: 17

Ion	Ratio	Lower	Upper
99	100		
42	54.2	36.2	54.4
71	59.3	42.4	63.6



Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MS

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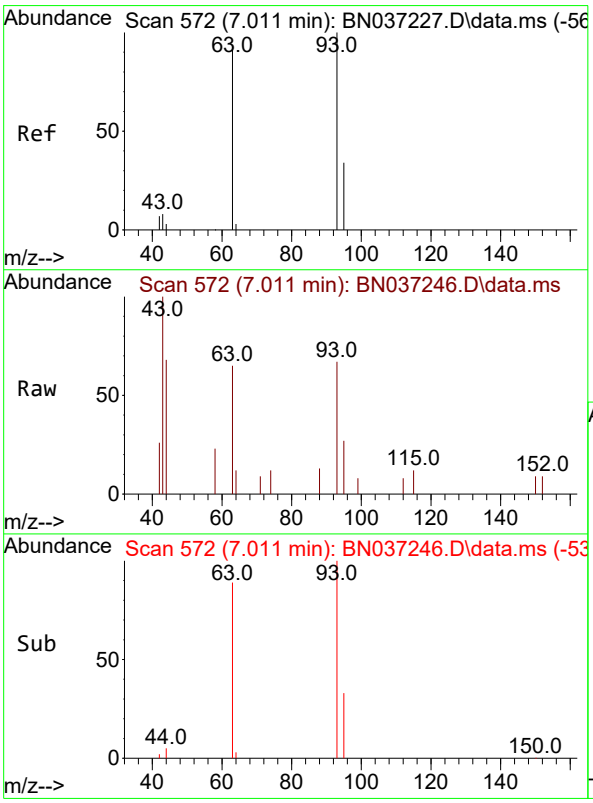
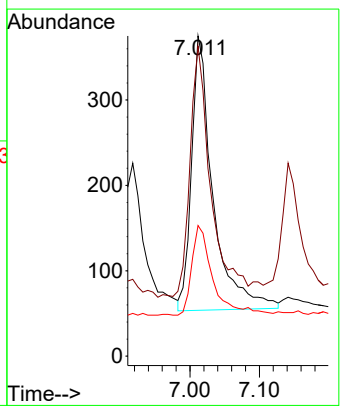
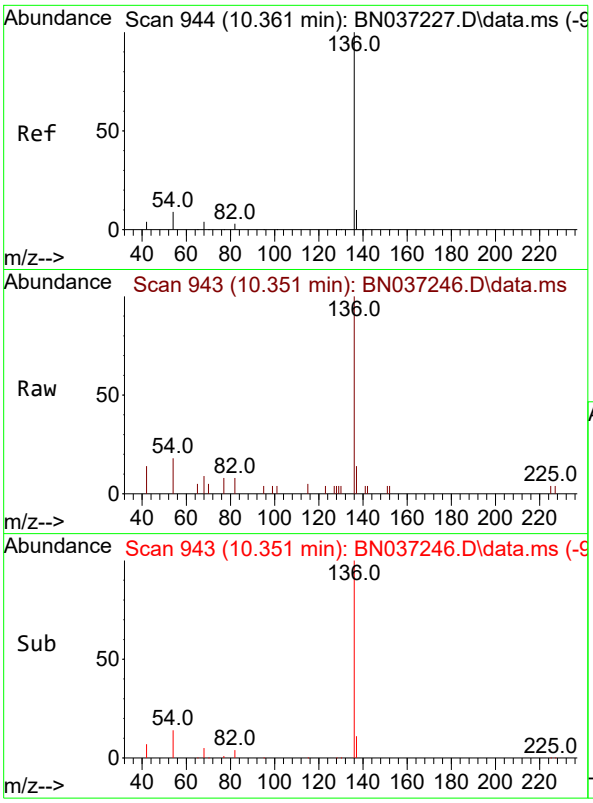


#6
bis(2-Chloroethyl)ether
Concen: 0.312 ng
RT: 7.011 min Scan# 572
Delta R.T. 0.000 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Tgt Ion: 93 Resp: 689

Ion	Ratio	Lower	Upper
93	100		
63	87.7	75.2	112.8
95	32.2	28.3	42.5

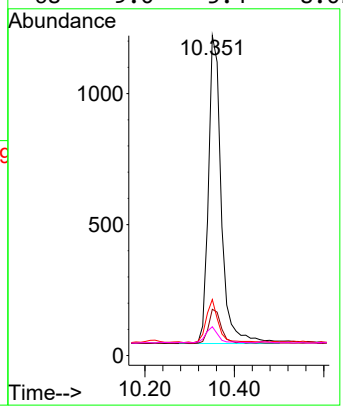




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Tgt Ion:136 Resp: 234

Ion	Ratio	Lower	Upper
136	100		
137	14.5	10.6	15.8
54	17.5	9.2	13.8#
68	9.0	5.4	8.0#



Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MS

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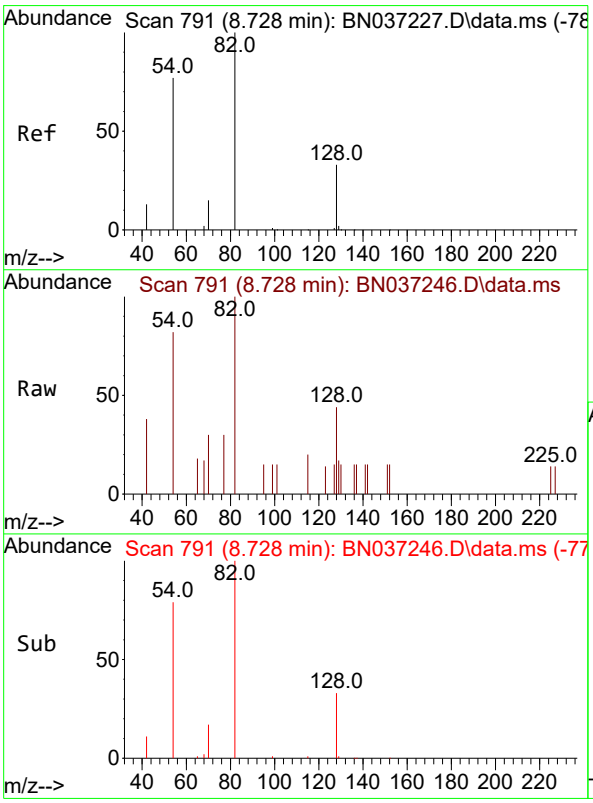
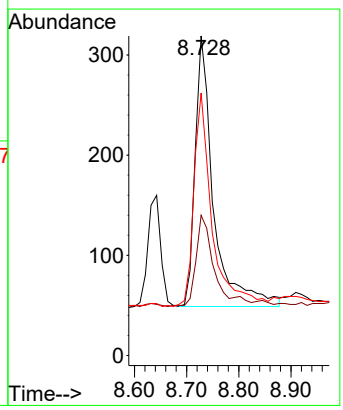
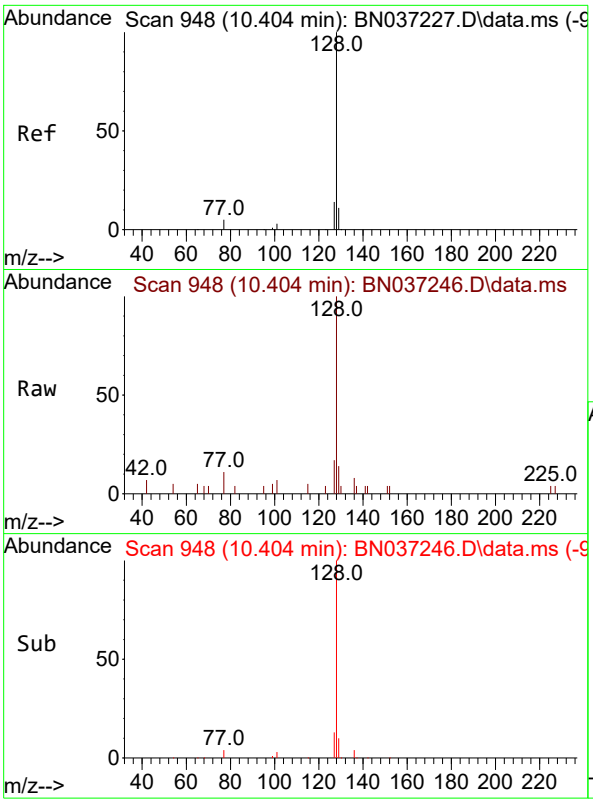


#8
Nitrobenzene-d5
Concen: 0.286 ng
RT: 8.728 min Scan# 791
Delta R.T. 0.000 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Tgt Ion: 82 Resp: 665

Ion	Ratio	Lower	Upper
82	100		
128	43.9	31.2	46.8
54	82.1	63.3	94.9

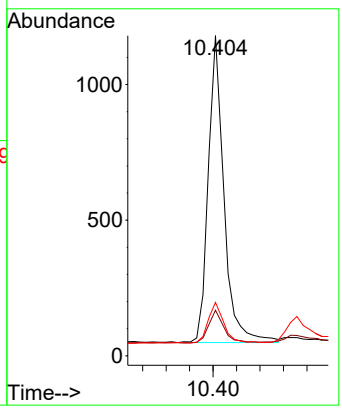




#9
Naphthalene
Concen: 0.310 ng
RT: 10.404 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Tgt Ion:128 Resp: 210

Ion	Ratio	Lower	Upper
128	100		
129	14.2	10.7	16.1
127	16.7	12.6	19.0



Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MS

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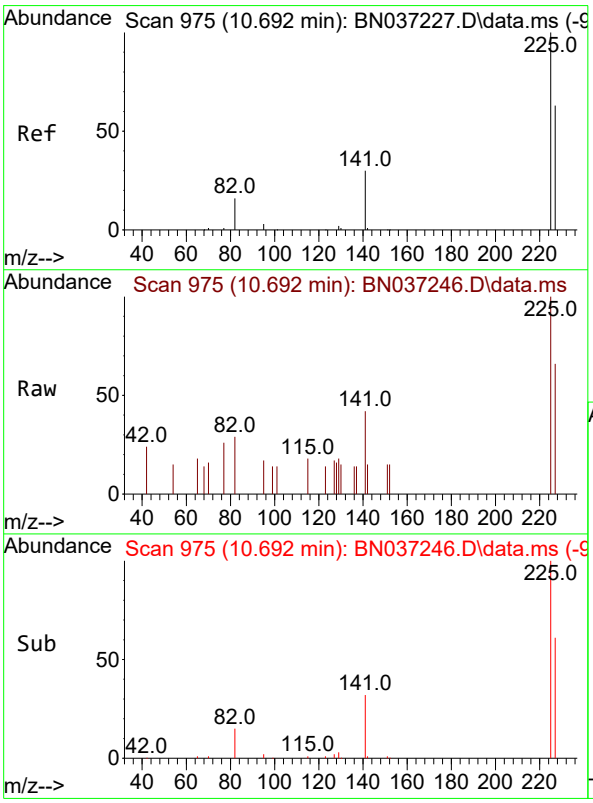
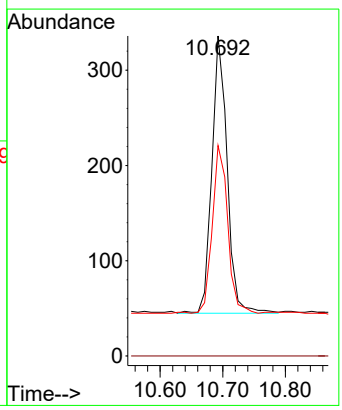
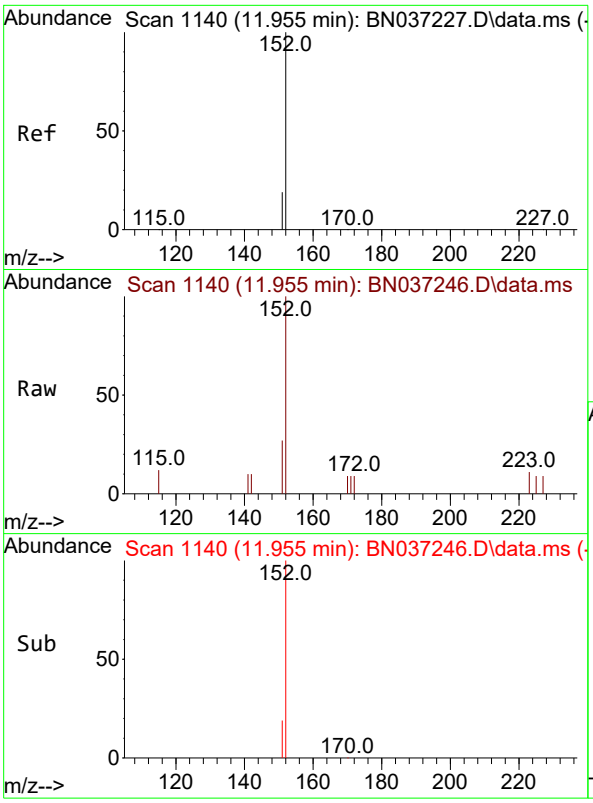


#10
Hexachlorobutadiene
Concen: 0.297 ng
RT: 10.692 min Scan# 975
Delta R.T. 0.000 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Tgt Ion:225 Resp: 492

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	61.0	49.2	73.8

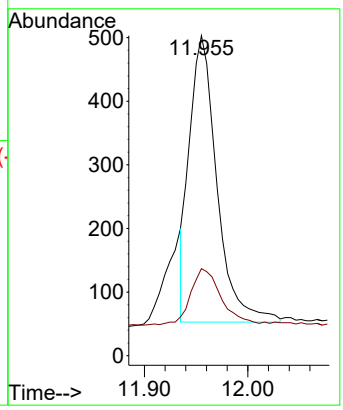




#11
2-Methylnaphthalene-d10
Concen: 0.263 ng m
RT: 11.955 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Tgt Ion:152 Resp: 83

Ion	Ratio	Lower	Upper
152	100		
151	22.3	17.9	26.9



Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MS

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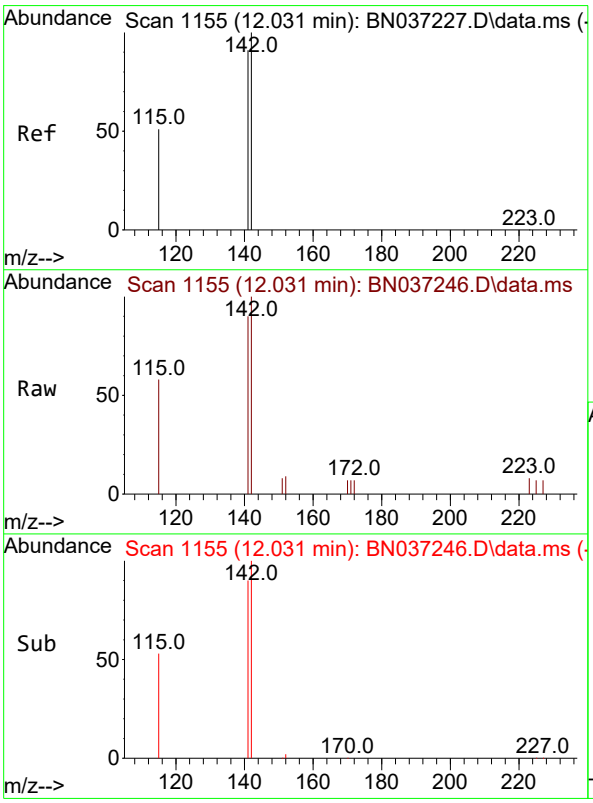
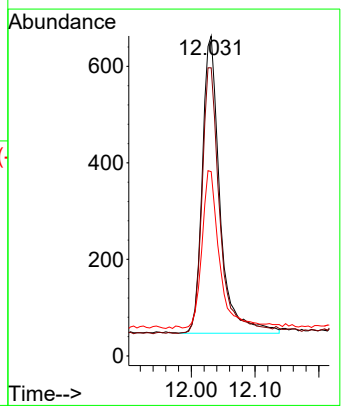
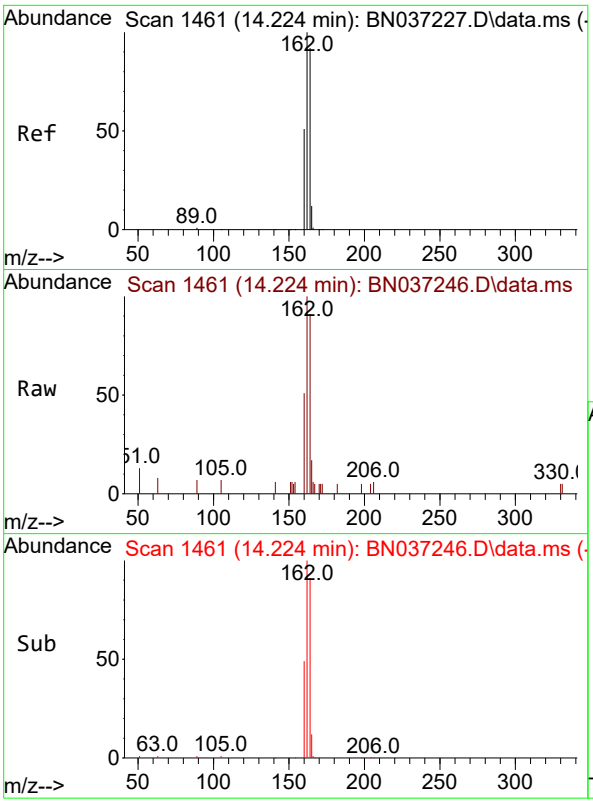


#12
2-Methylnaphthalene
Concen: 0.286 ng
RT: 12.031 min Scan# 1155
Delta R.T. 0.000 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Tgt Ion:142 Resp: 1184

Ion	Ratio	Lower	Upper
142	100		
141	90.0	73.0	109.6
115	57.6	43.3	64.9

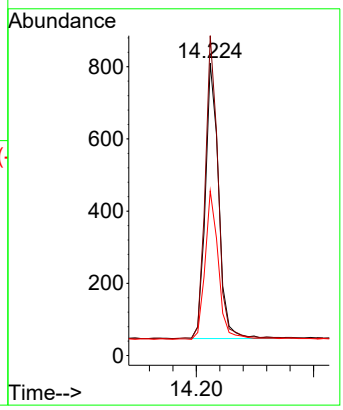




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Tgt Ion:164 Resp: 120

Ion	Ratio	Lower	Upper
164	100		
162	109.4	86.7	130.1
160	56.3	45.8	68.6



Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MS

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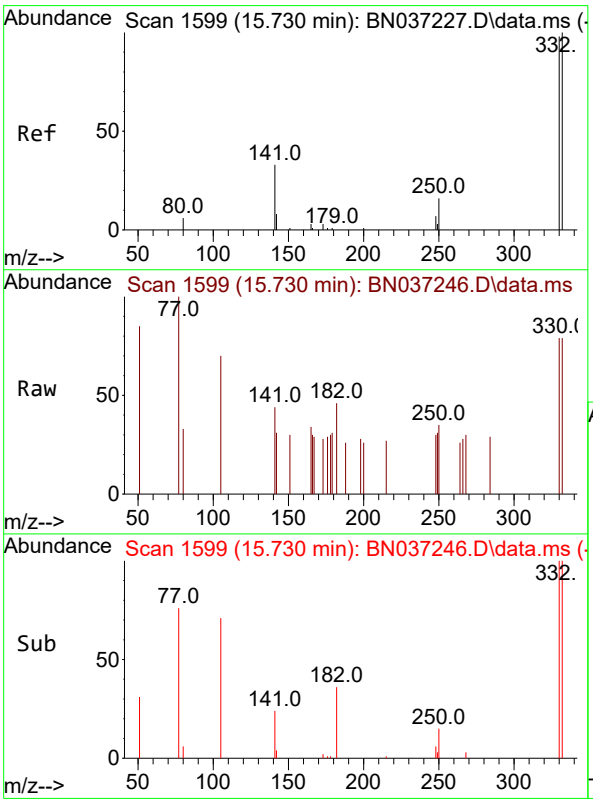
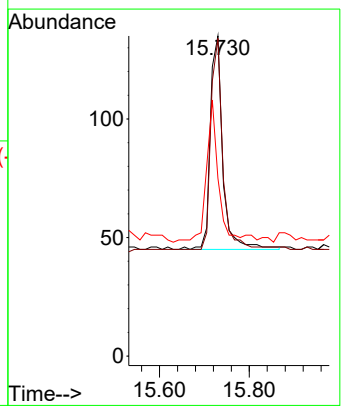
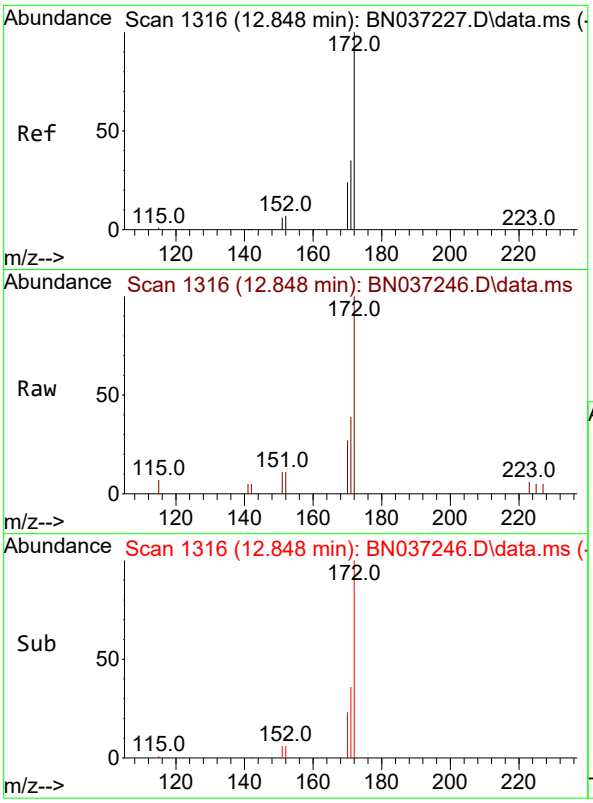


#14
2,4,6-Tribromophenol
Concen: 0.345 ng
RT: 15.730 min Scan# 1599
Delta R.T. 0.000 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Tgt Ion:330 Resp: 173

Ion	Ratio	Lower	Upper
330	100		
332	94.8	74.9	112.3
141	63.0	45.1	67.7

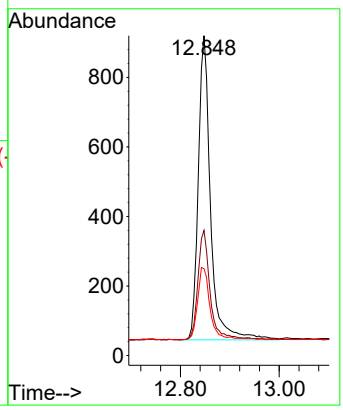




#15
2-Fluorobiphenyl
Concen: 0.296 ng
RT: 12.848 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Tgt Ion:172 Resp: 150

Ion	Ratio	Lower	Upper
172	100		
171	39.1	29.8	44.8
170	27.2	21.1	31.7



Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MS

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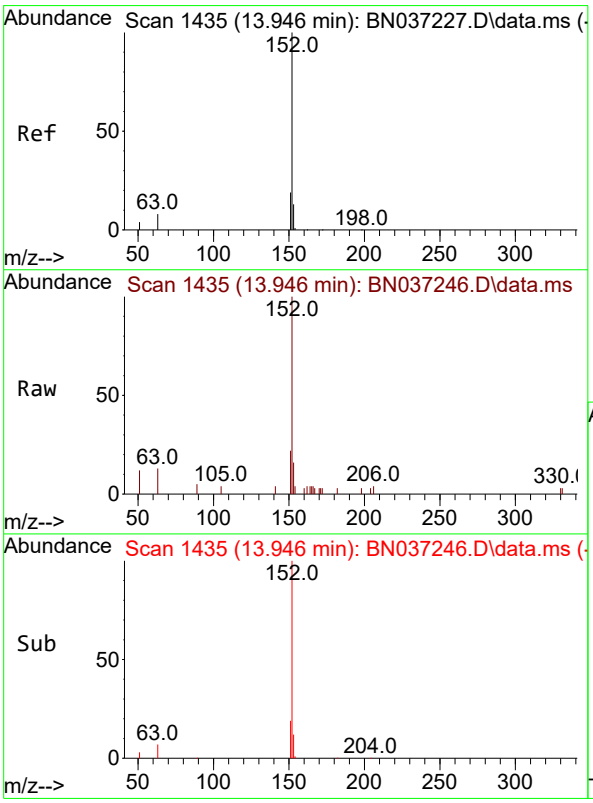
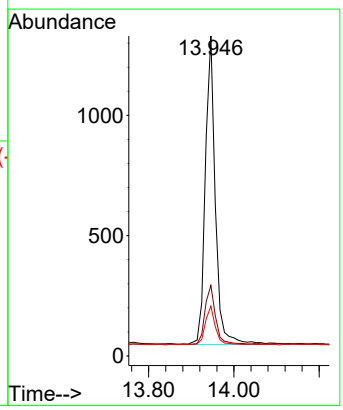
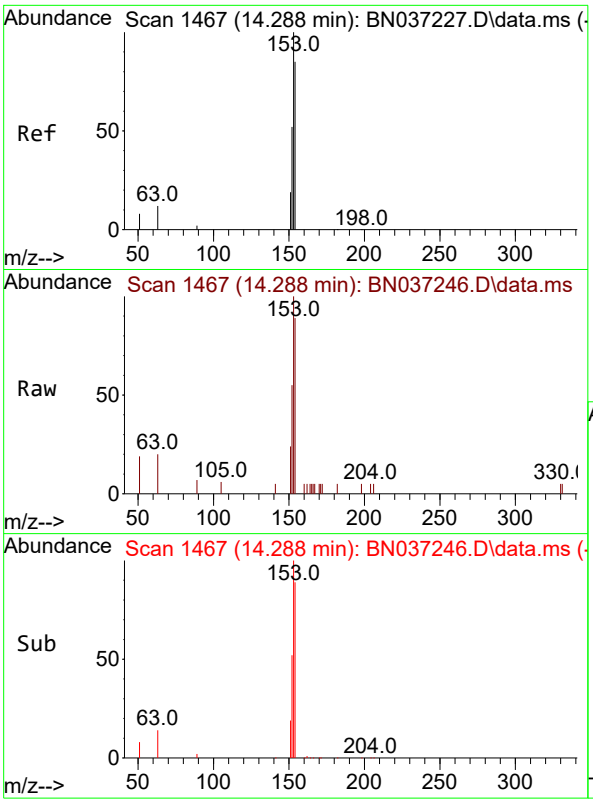


#16
Acenaphthylene
Concen: 0.353 ng
RT: 13.946 min Scan# 1435
Delta R.T. 0.000 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Tgt Ion:152 Resp: 2092

Ion	Ratio	Lower	Upper
152	100		
151	20.0	15.7	23.5
153	12.4	10.7	16.1

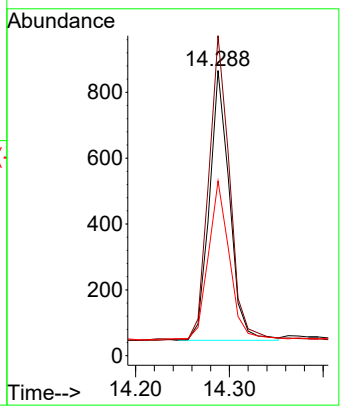




#17
Acenaphthene
Concen: 0.320 ng
RT: 14.288 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Tgt Ion:154 Resp: 122

Ion	Ratio	Lower	Upper
154	100		
153	118.6	94.6	141.8
152	61.7	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
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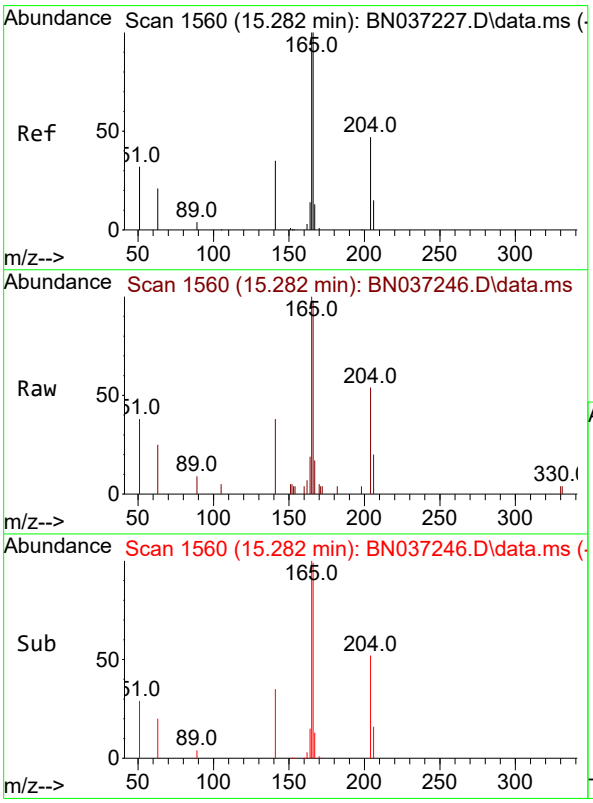
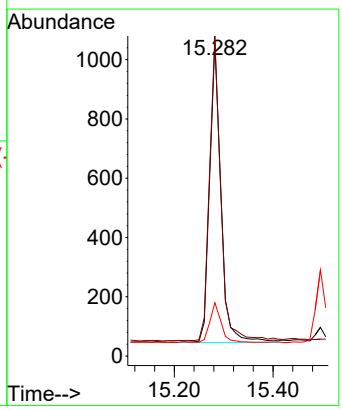
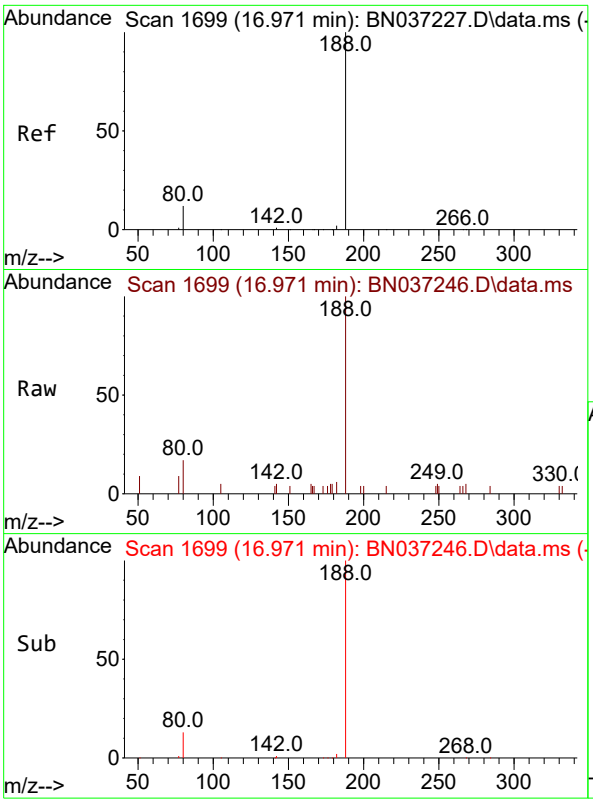


#18
Fluorene
Concen: 0.329 ng
RT: 15.282 min Scan# 1560
Delta R.T. 0.000 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Tgt Ion:166 Resp: 1616

Ion	Ratio	Lower	Upper
166	100		
165	101.5	79.8	119.6
167	12.6	10.8	16.2





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Tgt Ion:188 Resp: 215

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	16.7	12.2	18.4

Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MS

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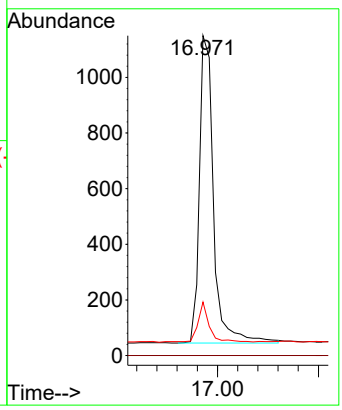
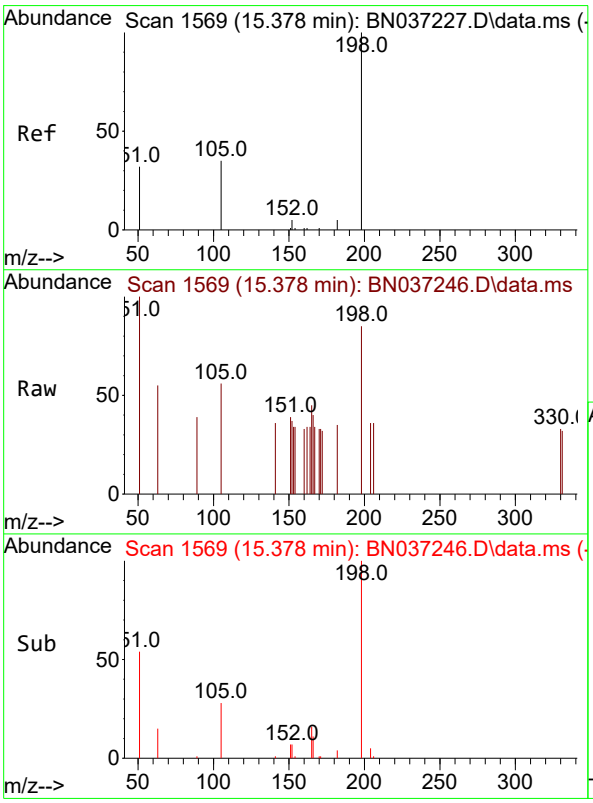
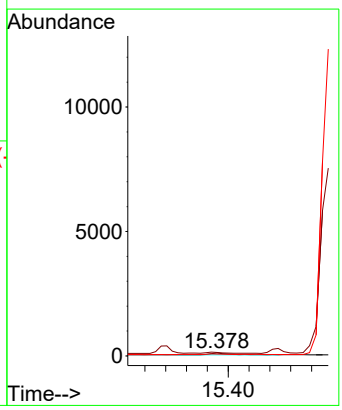


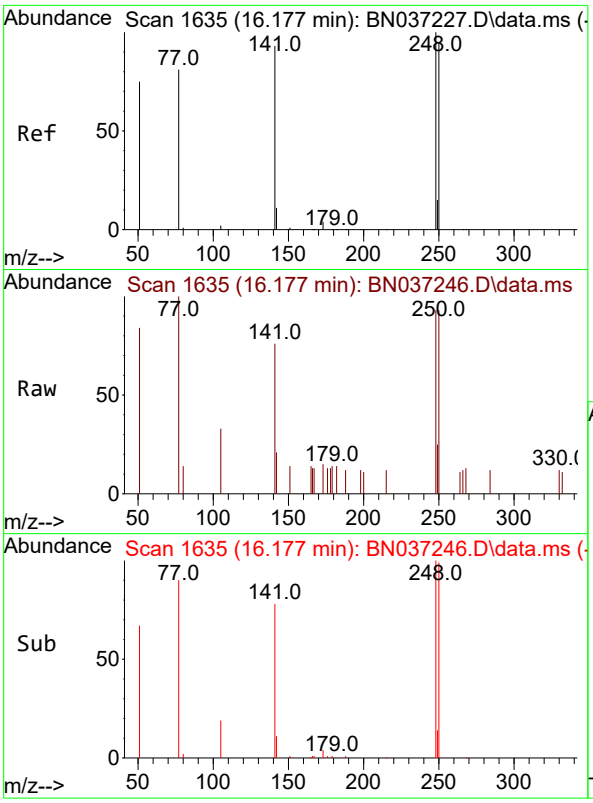


#20
4,6-Dinitro-2-methylphenol
Concen: 0.438 ng
RT: 15.378 min Scan# 1569
Delta R.T. 0.000 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Tgt Ion:198 Resp: 182

Ion	Ratio	Lower	Upper
198	100		
51	117.6	111.2	166.8
105	66.4	54.0	81.0





#21
4-Bromophenyl-phenylether
Concen: 0.361 ng
RT: 16.177 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Tgt Ion:248 Resp: 50(

Ion	Ratio	Lower	Upper
248	100		
250	99.7	76.8	115.2
141	81.9	75.6	113.4

Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MS

Manual Integrations
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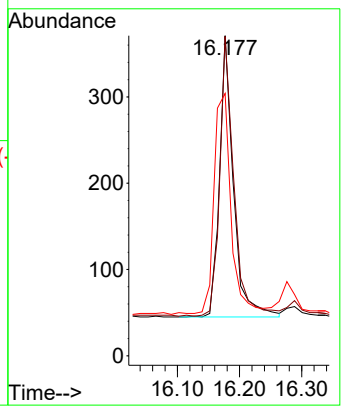
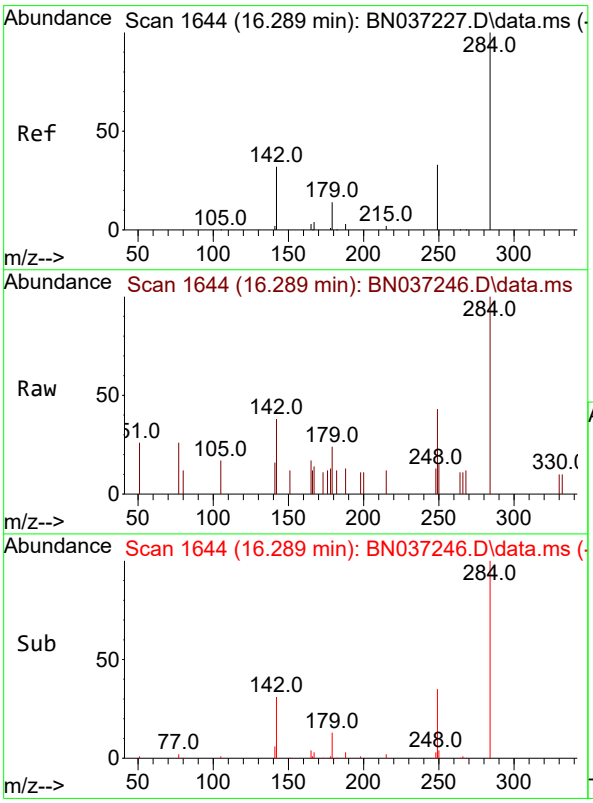
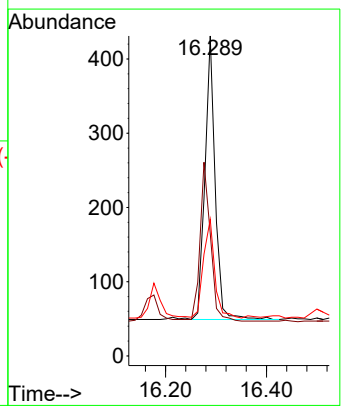


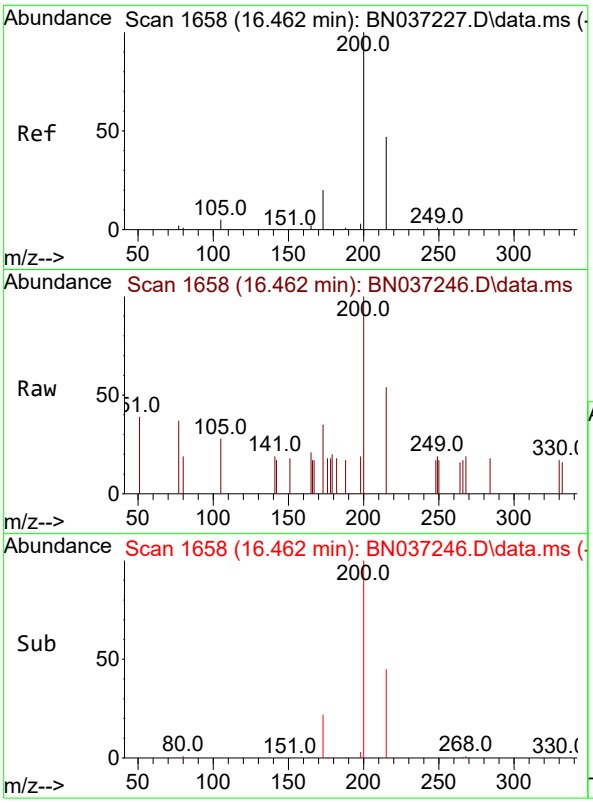


#22
Hexachlorobenzene
Concen: 0.332 ng
RT: 16.289 min Scan# 1644
Delta R.T. 0.000 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Tgt Ion:284 Resp: 539

Ion	Ratio	Lower	Upper
284	100		
142	57.1	43.8	65.6
249	38.8	28.4	42.6





#23
Atrazine
Concen: 0.406 ng
RT: 16.462 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MS

Tgt Ion:200 Resp: 50

Ion	Ratio	Lower	Upper
200	100		
173	34.7	25.1	37.7
215	54.2	43.7	65.5

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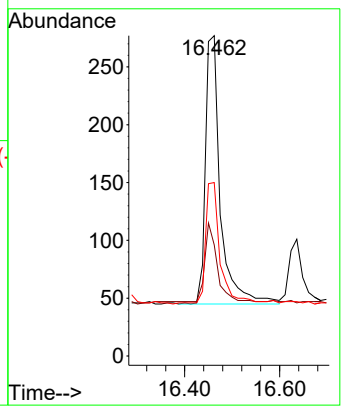
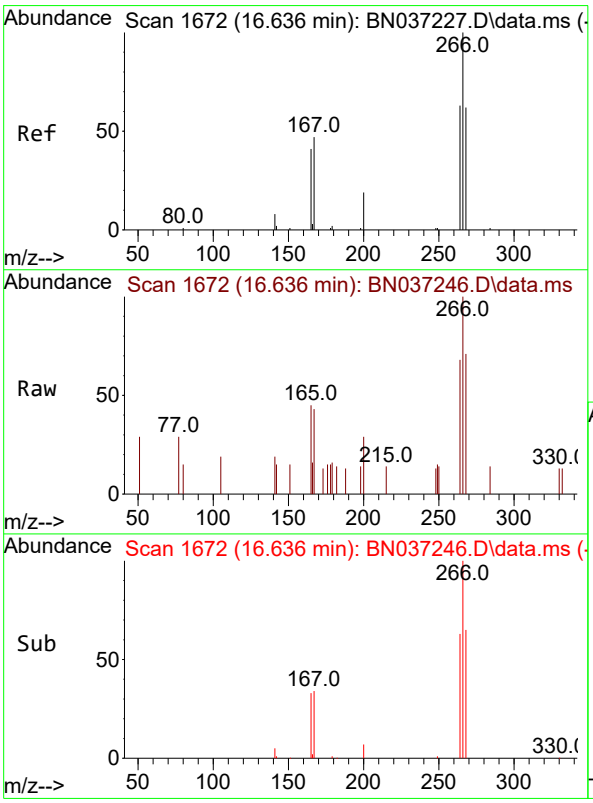
Supervised By :Jagrut Upadhyay 06/16/2025

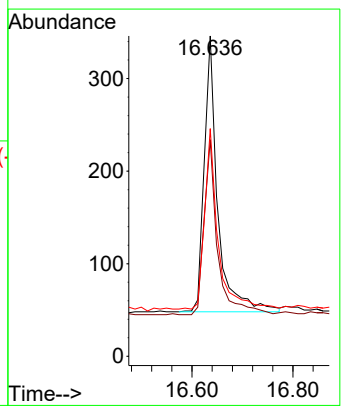


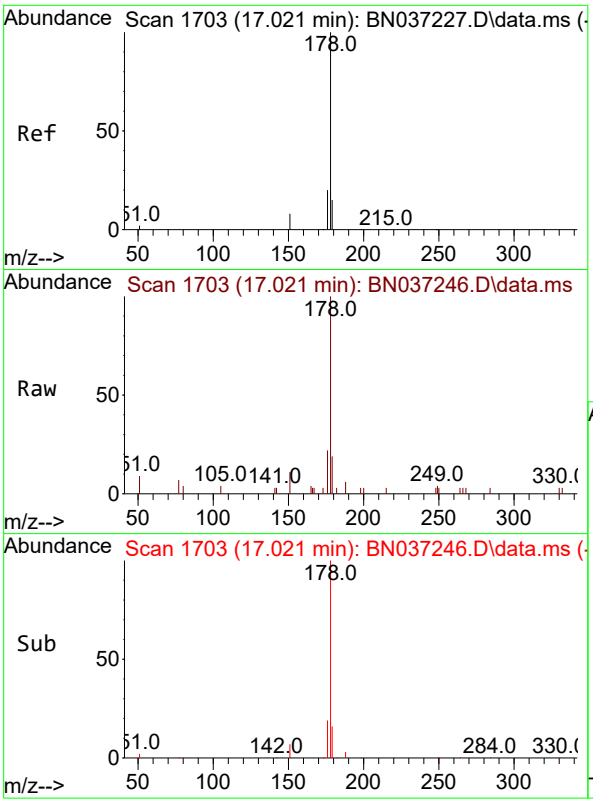


#24
Pentachlorophenol
Concen: 0.698 ng
RT: 16.636 min Scan# 1672
Delta R.T. 0.000 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Tgt Ion:266 Resp: 556

Ion	Ratio	Lower	Upper
266	100		
264	62.8	49.2	73.8
268	65.5	53.4	80.2

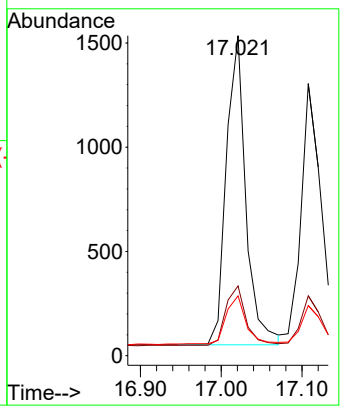




#25
Phenanthrene
Concen: 0.366 ng
RT: 17.021 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Tgt Ion:178 Resp: 249

Ion	Ratio	Lower	Upper
178	100		
176	19.8	16.3	24.5
179	16.6	12.6	18.8



Instrument :
BNA_N
ClientSampleId :
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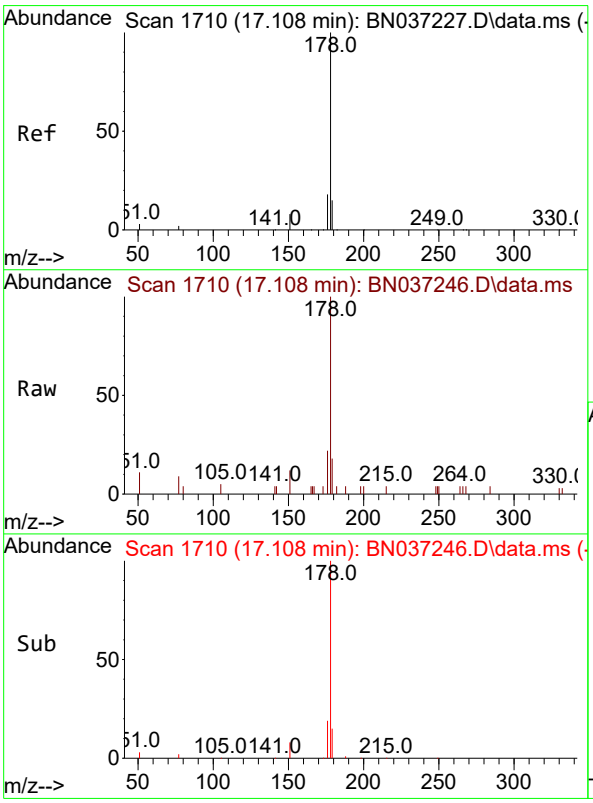
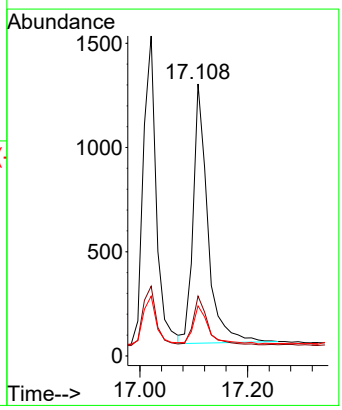
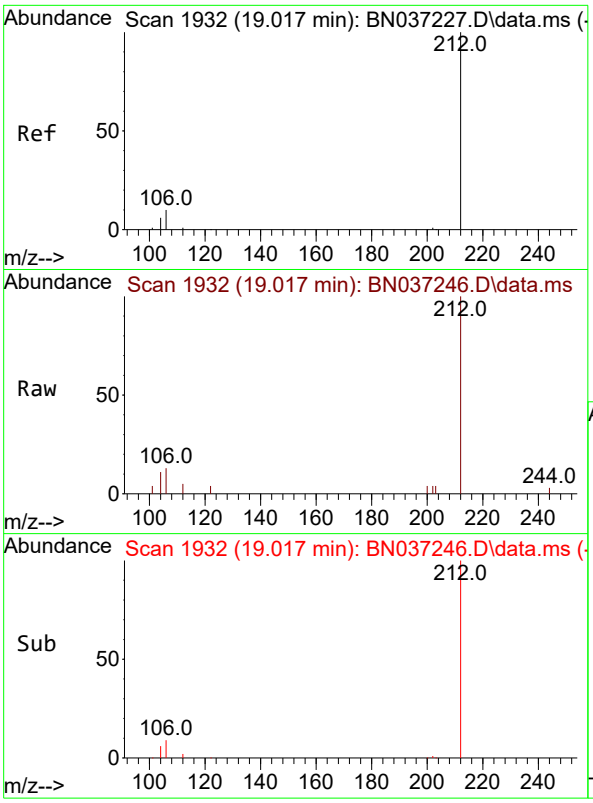


#26
Anthracene
Concen: 0.375 ng
RT: 17.108 min Scan# 1710
Delta R.T. 0.000 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Tgt Ion:178 Resp: 2343

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.1	22.7
179	15.0	12.4	18.6

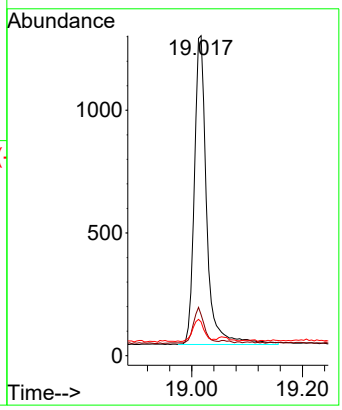




#27
Fluoranthene-d10
Concen: 0.345 ng
RT: 19.017 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Tgt Ion:212 Resp: 194

Ion	Ratio	Lower	Upper
212	100		
106	9.9	9.3	13.9
104	6.5	5.7	8.5



Instrument :
BNA_N
ClientSampleId :
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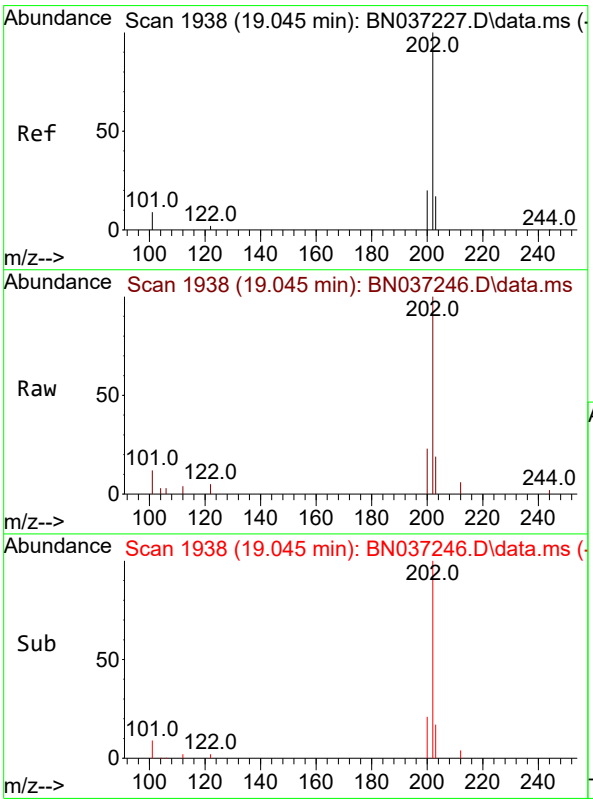
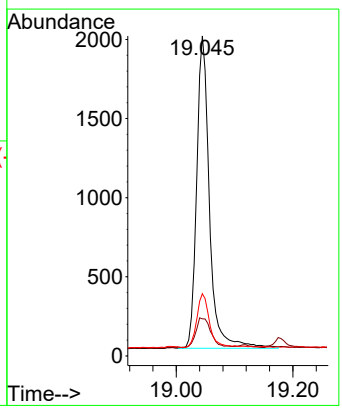
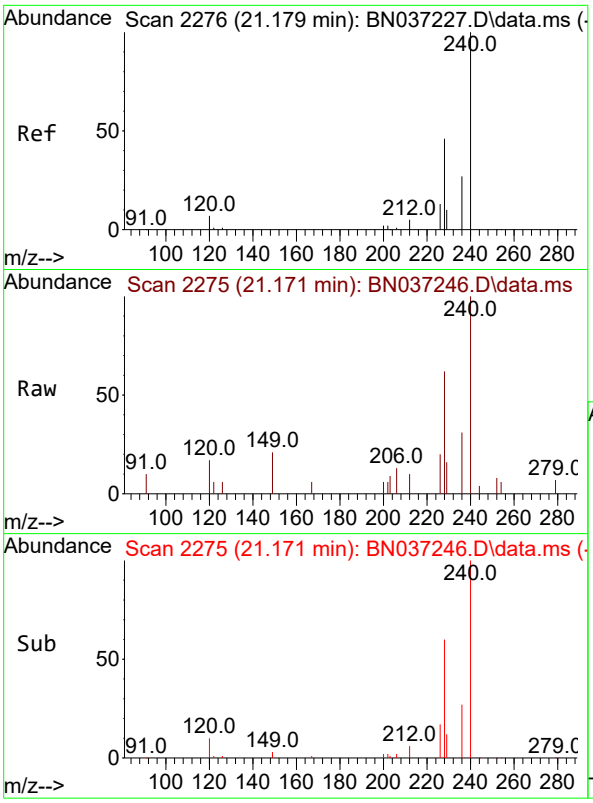


#28
Fluoranthene
Concen: 0.377 ng
RT: 19.045 min Scan# 1938
Delta R.T. 0.000 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Tgt Ion:202 Resp: 3009

Ion	Ratio	Lower	Upper
202	100		
101	12.1	7.1	10.7#
203	17.5	13.0	19.6





#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.171 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MS

Tgt Ion:240 Resp: 173

Ion	Ratio	Lower	Upper
240	100		
120	16.6	11.3	16.9
236	30.6	24.4	36.6

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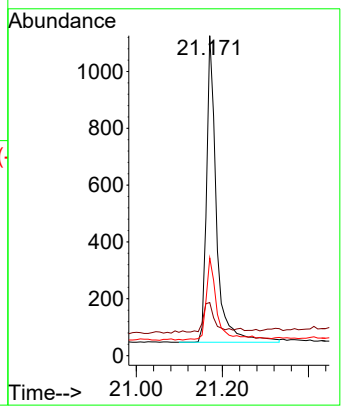
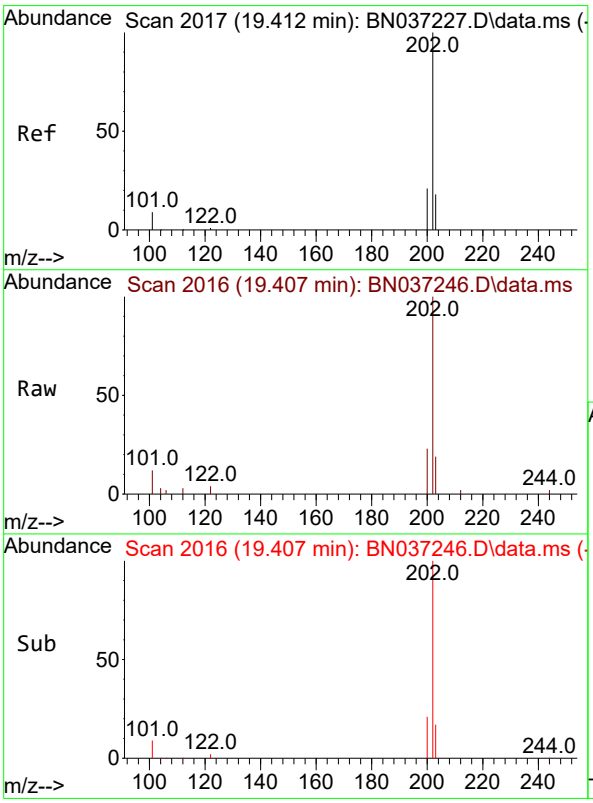
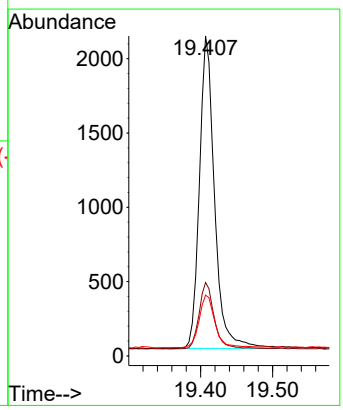


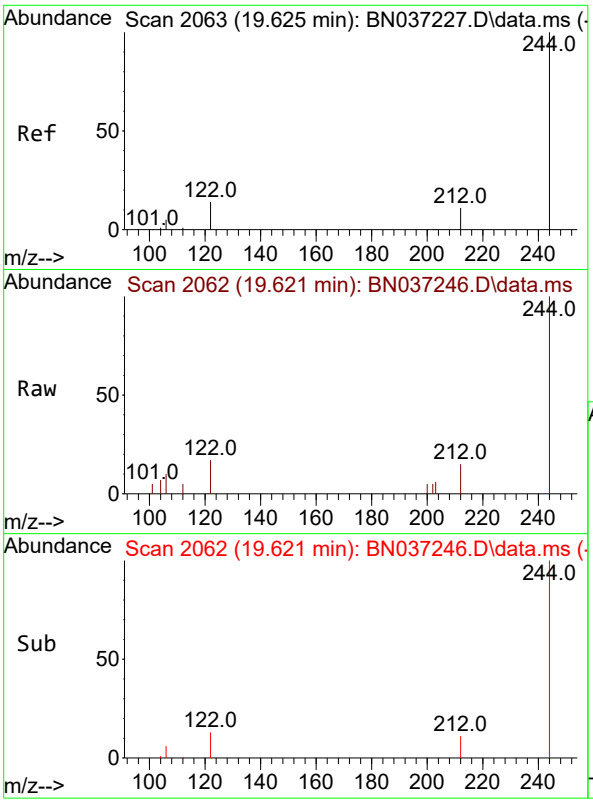


#30
Pyrene
Concen: 0.377 ng
RT: 19.407 min Scan# 2016
Delta R.T. -0.005 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Tgt Ion:202 Resp: 3076

Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.2	25.8
203	17.8	14.3	21.5

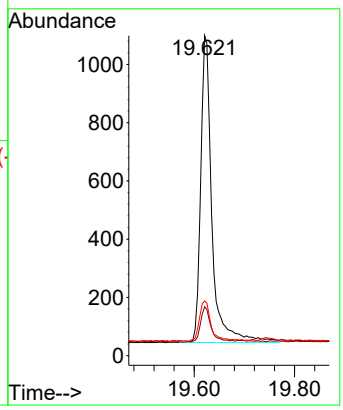




#31
Terphenyl-d14
Concen: 0.419 ng
RT: 19.621 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Tgt Ion:244 Resp: 164

Ion	Ratio	Lower	Upper
244	100		
212	15.3	12.2	18.2
122	17.1	14.3	21.5



Instrument :
BNA_N
ClientSampleId :
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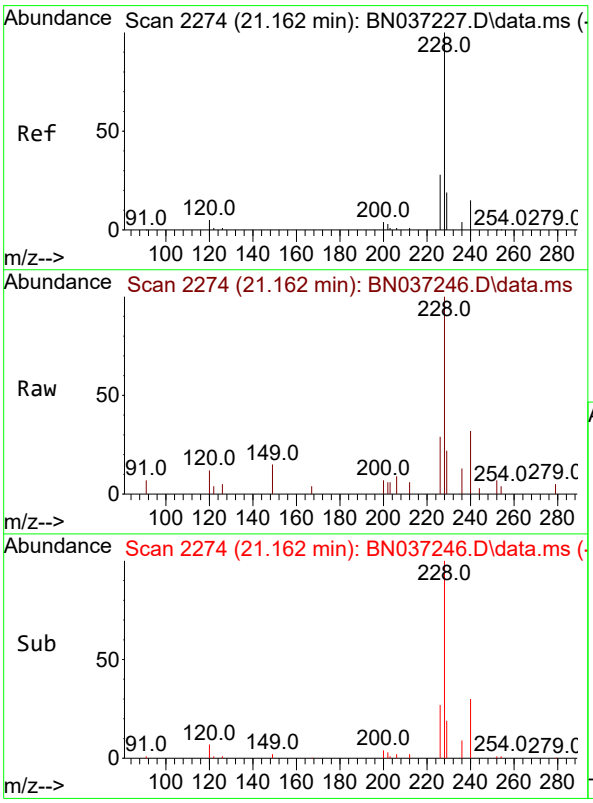
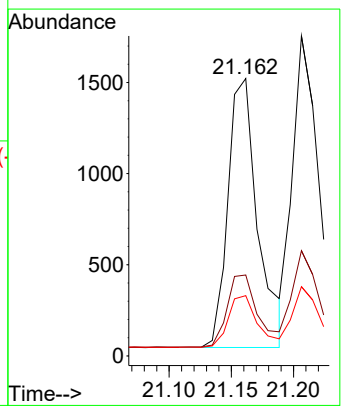
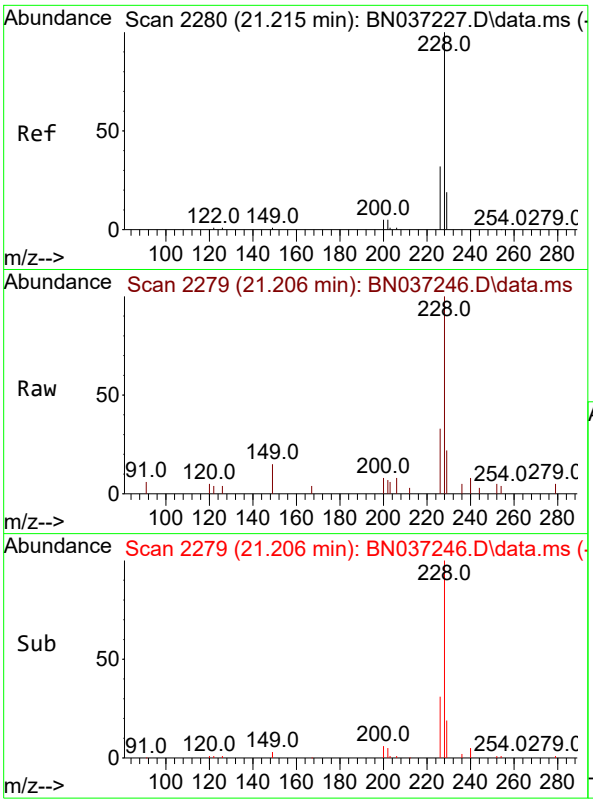


#32
Benzo(a)anthracene
Concen: 0.421 ng
RT: 21.162 min Scan# 2274
Delta R.T. 0.000 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Tgt Ion:228 Resp: 2465

Ion	Ratio	Lower	Upper
228	100		
226	29.2	23.8	35.8
229	21.7	17.0	25.4

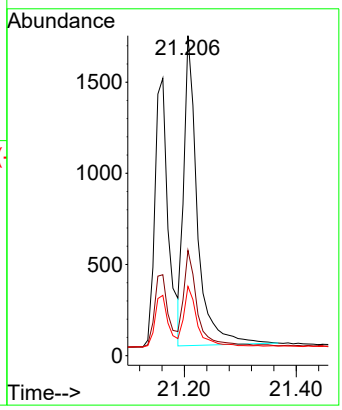




#33
Chrysene
Concen: 0.393 ng
RT: 21.206 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Tgt Ion:228 Resp: 286

Ion	Ratio	Lower	Upper
228	100		
226	32.9	25.8	38.6
229	21.7	17.0	25.4



Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MS

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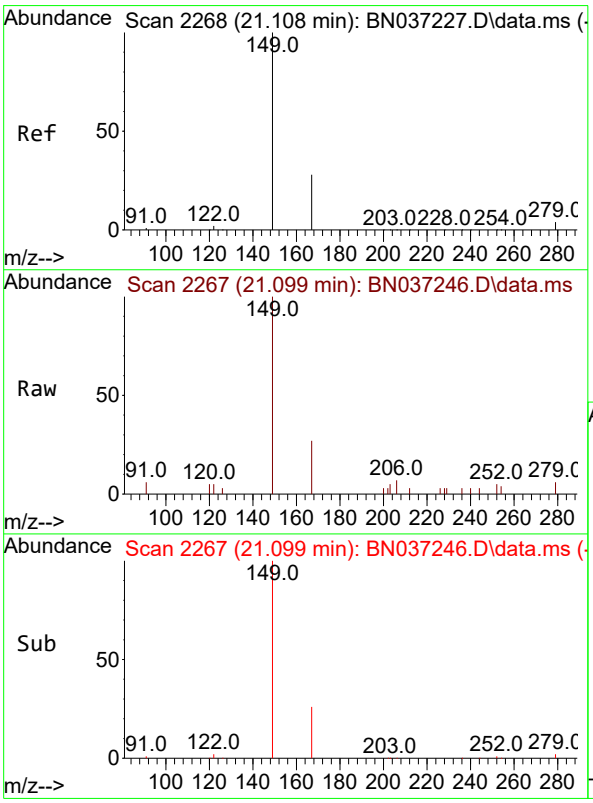
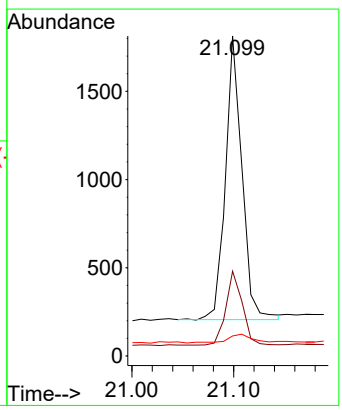
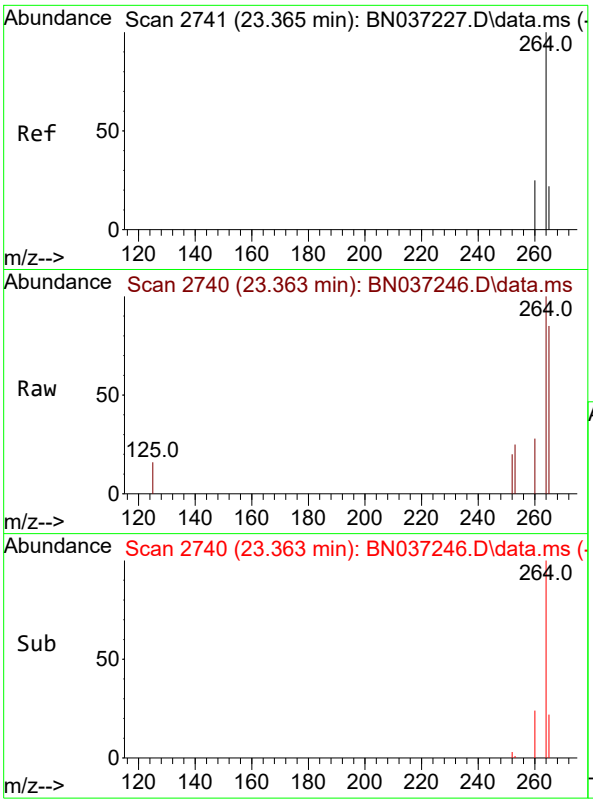


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.417 ng
RT: 21.099 min Scan# 2267
Delta R.T. -0.009 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Tgt Ion:149 Resp: 1818

Ion	Ratio	Lower	Upper
149	100		
167	25.7	21.3	31.9
279	5.3	3.3	4.9#

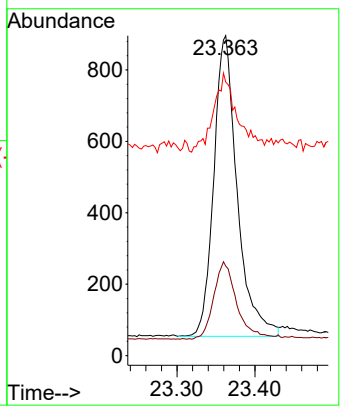




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.363 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Tgt Ion:264 Resp: 175

Ion	Ratio	Lower	Upper
264	100		
260	28.0	22.8	34.2
265	85.5	66.4	99.6



Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MS

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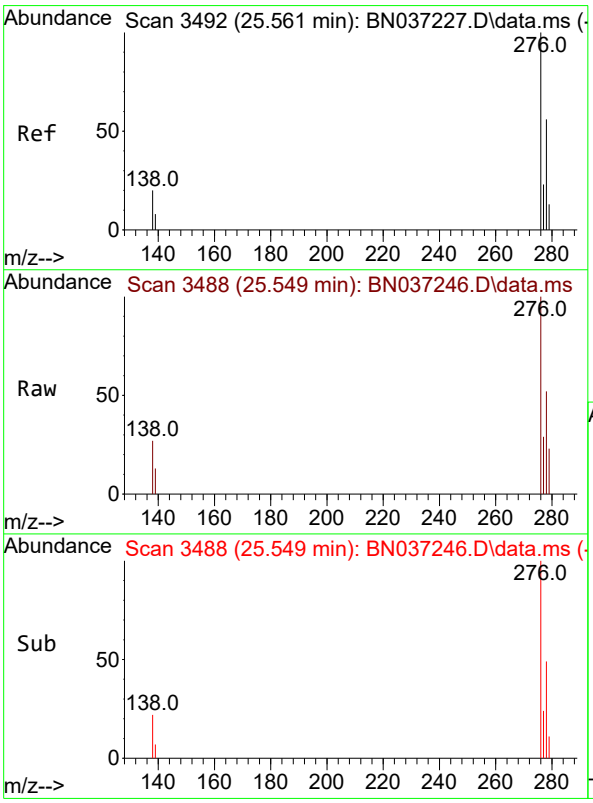
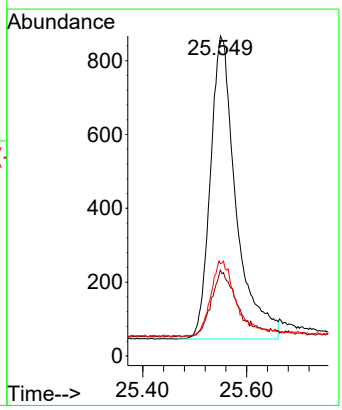
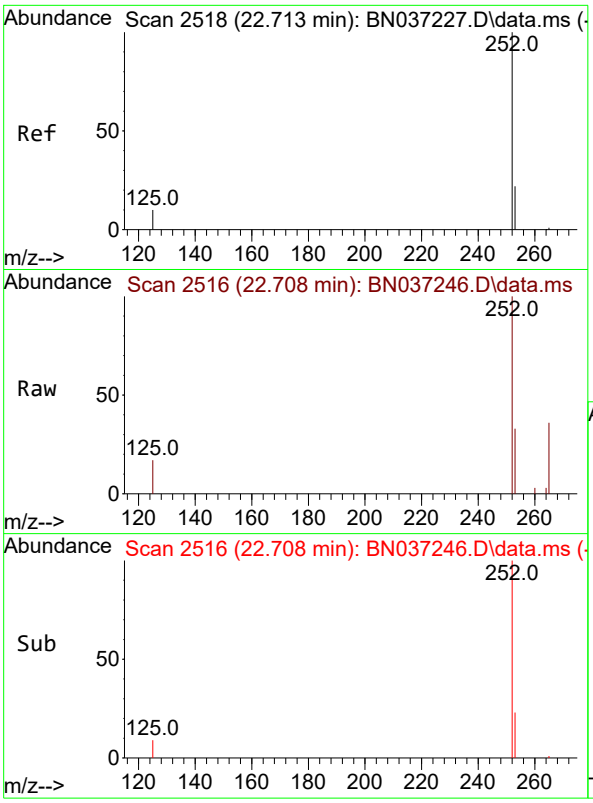


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.397 ng
RT: 25.549 min Scan# 3488
Delta R.T. -0.012 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Tgt Ion:276 Resp: 2816

Ion	Ratio	Lower	Upper
276	100		
138	20.7	16.8	25.2
277	25.1	19.5	29.3

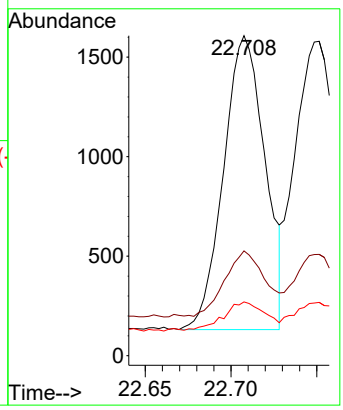




#37
Benzo(b)fluoranthene
Concen: 0.386 ng
RT: 22.708 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Tgt Ion:252 Resp: 248

Ion	Ratio	Lower	Upper
252	100		
253	32.8	24.9	37.3
125	16.8	12.9	19.3



Instrument :
BNA_N
ClientSampleId :
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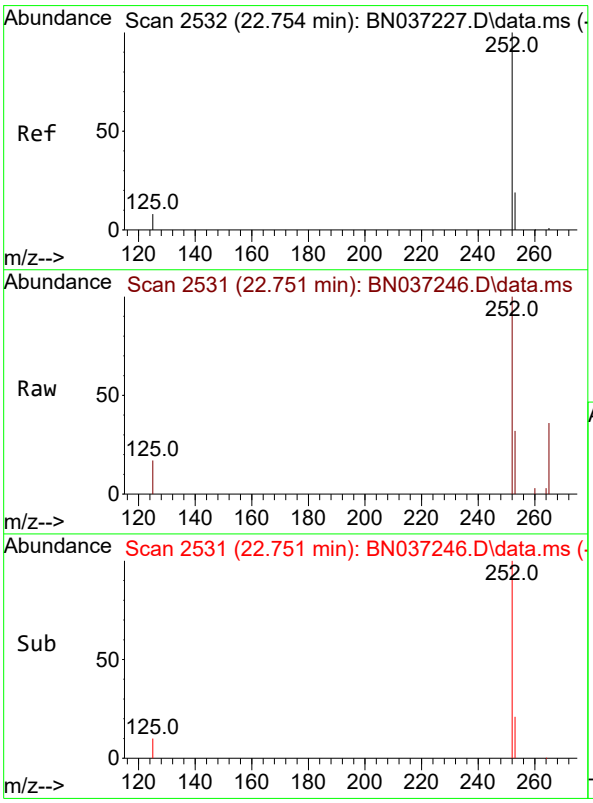
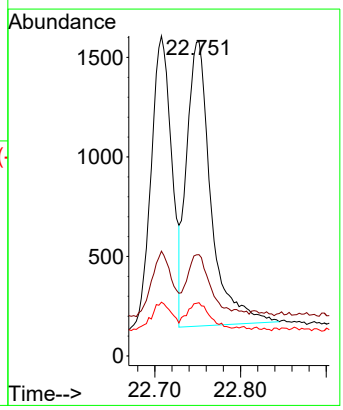
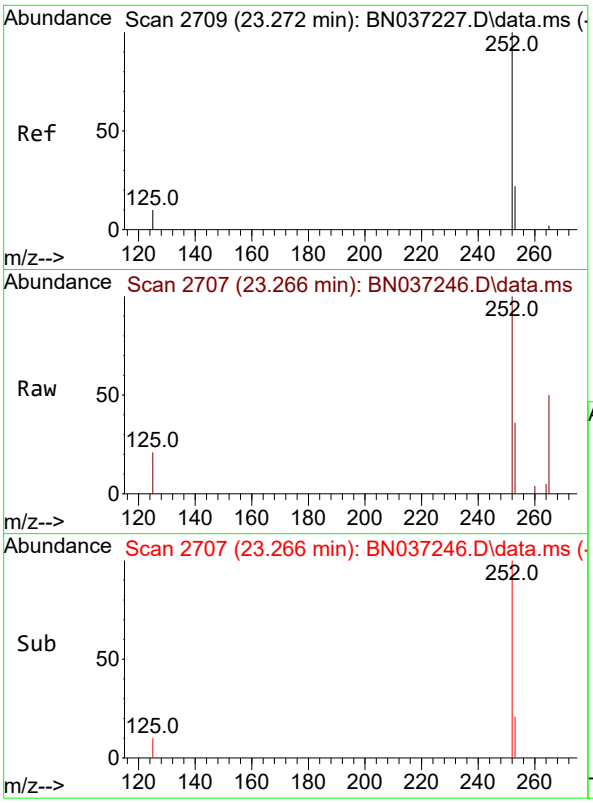


#38
Benzo(k)fluoranthene
Concen: 0.381 ng
RT: 22.751 min Scan# 2531
Delta R.T. -0.003 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Tgt Ion:252 Resp: 2823

Ion	Ratio	Lower	Upper
252	100		
253	32.2	24.6	37.0
125	17.0	13.4	20.2

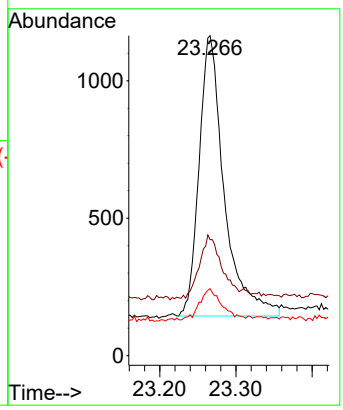




#39
Benzo(a)pyrene
Concen: 0.405 ng
RT: 23.266 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Tgt Ion:252 Resp: 234

Ion	Ratio	Lower	Upper
252	100		
253	36.3	29.4	44.2
125	21.0	16.2	24.2



Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MS

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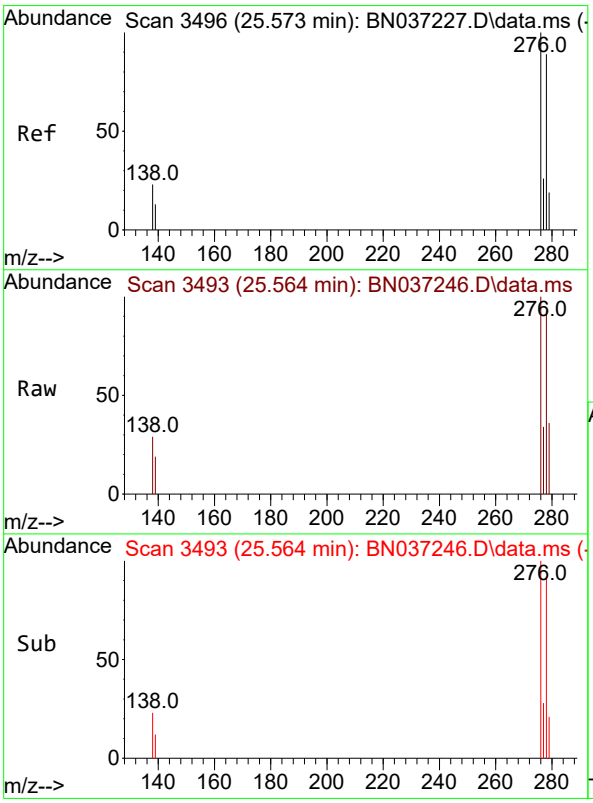
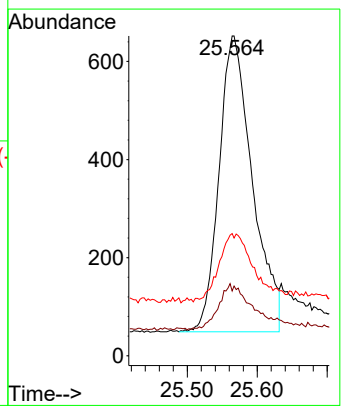
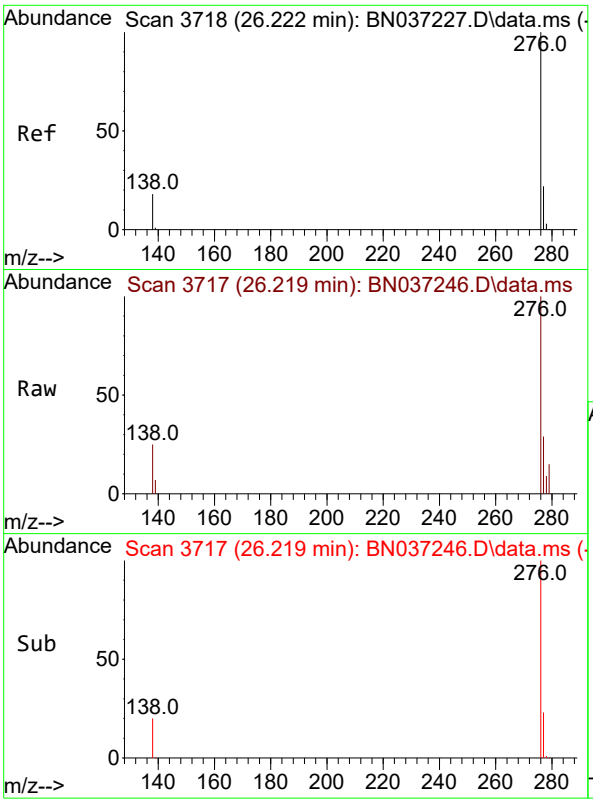


#40
Dibenzo(a,h)anthracene
Concen: 0.371 ng
RT: 25.564 min Scan# 3493
Delta R.T. -0.009 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Tgt Ion:278 Resp: 2000

Ion	Ratio	Lower	Upper
278	100		
139	20.2	17.8	26.6
279	38.2	31.3	46.9

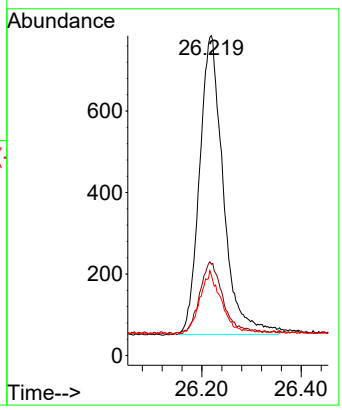




#41
Benzo(g,h,i)perylene
Concen: 0.369 ng
RT: 26.219 min Scan# 3
Delta R.T. -0.003 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Tgt Ion:276 Resp: 242

Ion	Ratio	Lower	Upper
276	100		
277	28.5	22.0	33.0
138	25.1	18.4	27.6



Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MS

Manual Integrations
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Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025

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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/09/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/11/25
Client Sample ID:	TT191D1-20250609MSD	SDG No.:	Q2299
Lab Sample ID:	Q2299-04MSD	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037247.D	1	06/13/25 08:03	06/14/25 04:08	PB168458

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	2.30		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.28		30 - 150		69%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.38		30 - 150		94%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.28		55 - 111		69%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.30		53 - 106		75%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.43		58 - 132		106%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	888	7.575				
1146-65-2	Naphthalene-d8	2240	10.351				
15067-26-2	Acenaphthene-d10	1180	14.224				
1517-22-2	Phenanthrene-d10	2200	16.971				
1719-03-5	Chrysene-d12	1960	21.17				
1520-96-3	Perylene-d12	1970	23.357				

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_N\Data\BN061325\
Data File : BN037247.D
Acq On : 14 Jun 2025 04:08
Operator : RC/JU
Sample : Q2299-04MSD
Misc :
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jun 14 05:09:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MSD

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	888	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	2241	0.400	ng	#-0.01
13) Acenaphthene-d10	14.224	164	1184	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	2199	0.400	ng	0.00
29) Chrysene-d12	21.170	240	1956	0.400	ng	0.00
35) Perylene-d12	23.357	264	1969	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	288	0.132	ng	0.00
5) Phenol-d6	6.766	99	162	0.070	ng	0.00
8) Nitrobenzene-d5	8.728	82	616	0.278	ng	0.00
11) 2-Methylnaphthalene-d10	11.955	152	831m	0.276	ng	0.00
14) 2,4,6-Tribromophenol	15.730	330	182	0.370	ng	0.00
15) 2-Fluorobiphenyl	12.848	172	1504	0.302	ng	0.00
27) Fluoranthene-d10	19.012	212	2166	0.376	ng	0.00
31) Terphenyl-d14	19.621	244	1884	0.426	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.104	88	2832	2.325	ng	# 87
3) n-Nitrosodimethylamine	3.422	42	510	0.184	ng	# 96
6) bis(2-Chloroethyl)ether	7.011	93	668	0.324	ng	98
9) Naphthalene	10.404	128	2101	0.324	ng	97
10) Hexachlorobutadiene	10.692	225	485	0.307	ng	# 95
12) 2-Methylnaphthalene	12.031	142	1206	0.306	ng	98
16) Acenaphthylene	13.946	152	2106	0.363	ng	99
17) Acenaphthene	14.288	154	1244	0.332	ng	98
18) Fluorene	15.282	166	1681	0.349	ng	99
20) 4,6-Dinitro-2-methylph...	15.378	198	206	0.473	ng	86
21) 4-Bromophenyl-phenylether	16.177	248	538	0.375	ng	89
22) Hexachlorobenzene	16.288	284	573	0.345	ng	93
23) Atrazine	16.450	200	567	0.444	ng	92
24) Pentachlorophenol	16.636	266	614	0.754	ng	97
25) Phenanthrene	17.021	178	2705	0.388	ng	99
26) Anthracene	17.108	178	2547	0.399	ng	98
28) Fluoranthene	19.045	202	3333	0.408	ng	# 95
30) Pyrene	19.407	202	3474	0.378	ng	99
32) Benzo(a)anthracene	21.153	228	2751	0.417	ng	99
33) Chrysene	21.206	228	3522	0.428	ng	100
34) Bis(2-ethylhexyl)phtha...	21.099	149	2078	0.422	ng	99
36) Indeno(1,2,3-cd)pyrene	25.549	276	3380	0.426	ng	99
37) Benzo(b)fluoranthene	22.705	252	3013	0.418	ng	99
38) Benzo(k)fluoranthene	22.749	252	3339	0.402	ng	98
39) Benzo(a)pyrene	23.266	252	2791	0.431	ng	96
40) Dibenzo(a,h)anthracene	25.564	278	2637	0.437	ng	95
41) Benzo(g,h,i)perylene	26.216	276	2894	0.393	ng	99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037247.D
Acq On : 14 Jun 2025 04:08
Operator : RC/JU
Sample : Q2299-04MSD
Misc :
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jun 14 05:09:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration

Instrument :
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ClientSampleId :
TT191D1-20250609MSD

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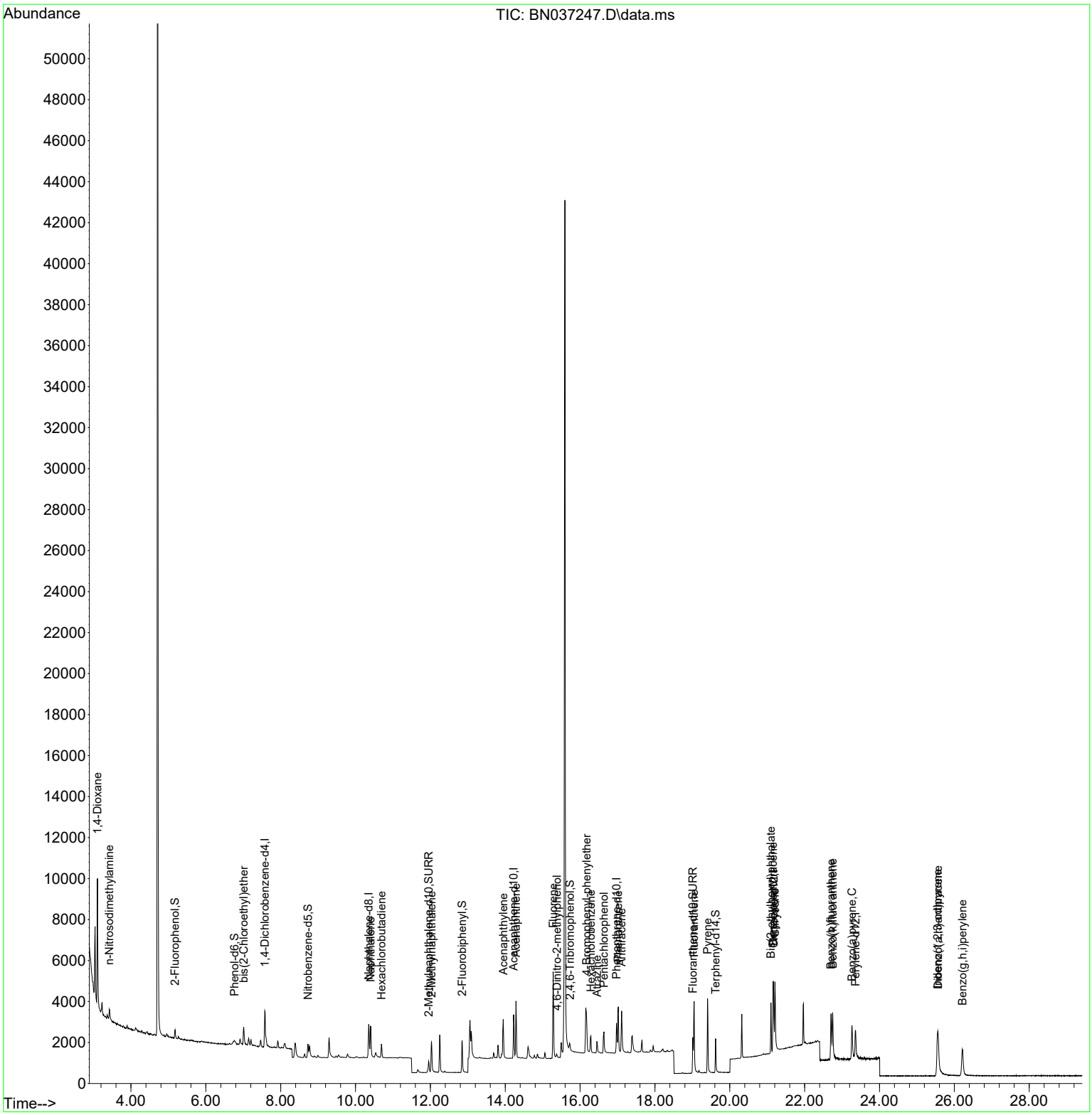
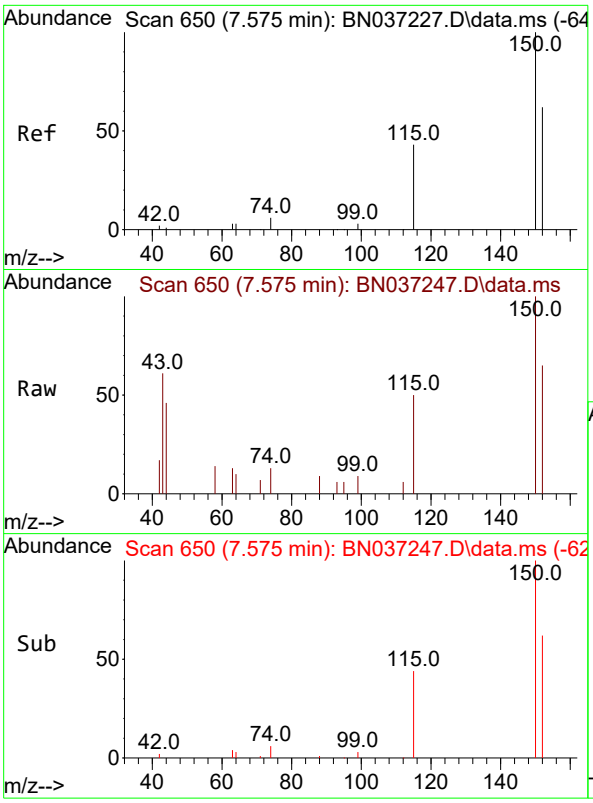
Supervised By :Jagrut Upadhyay 06/16/2025

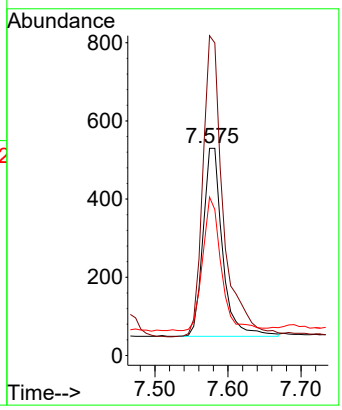




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Tgt Ion:152 Resp: 88

Ion	Ratio	Lower	Upper
152	100		
150	154.3	125.2	187.8
115	76.4	58.4	87.6



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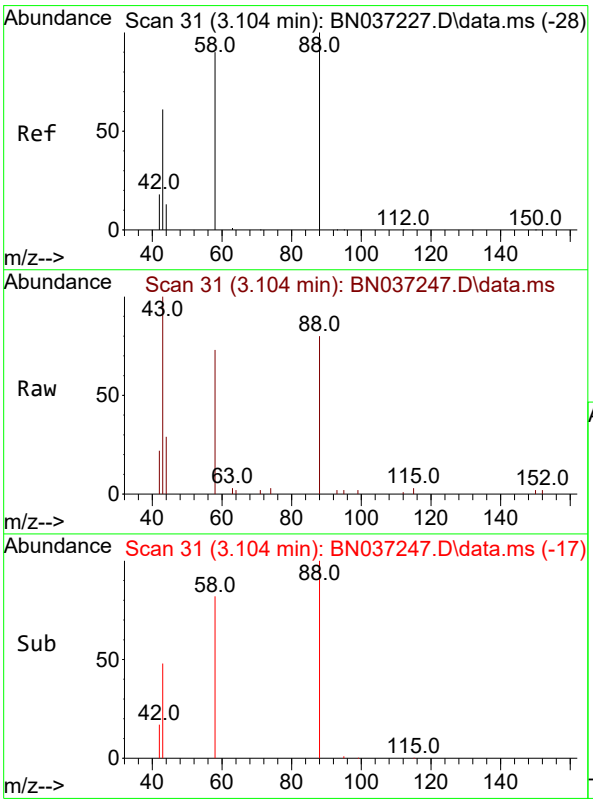
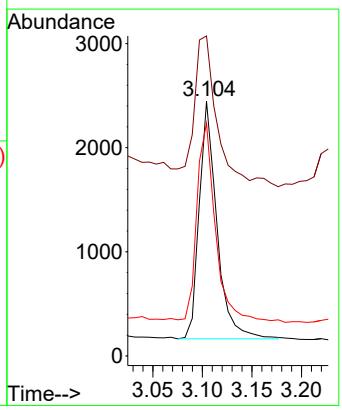
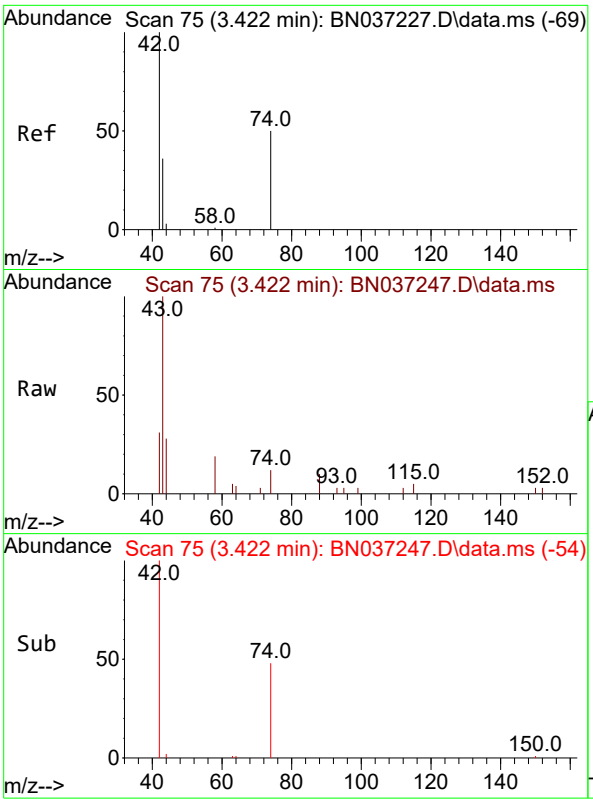


#2
1,4-Dioxane
Concen: 2.325 ng
RT: 3.104 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Tgt Ion: 88 Resp: 2832

Ion	Ratio	Lower	Upper
88	100		
43	83.5	52.6	79.0#
58	85.5	73.5	110.3

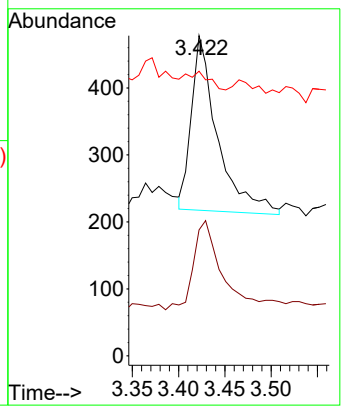




#3
n-Nitrosodimethylamine
Concen: 0.184 ng
RT: 3.422 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Tgt Ion: 42 Resp: 51

Ion	Ratio	Lower	Upper
42	100		
74	58.2	44.6	66.8
44	0.0	3.5	5.3



Instrument :
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ClientSampleId :
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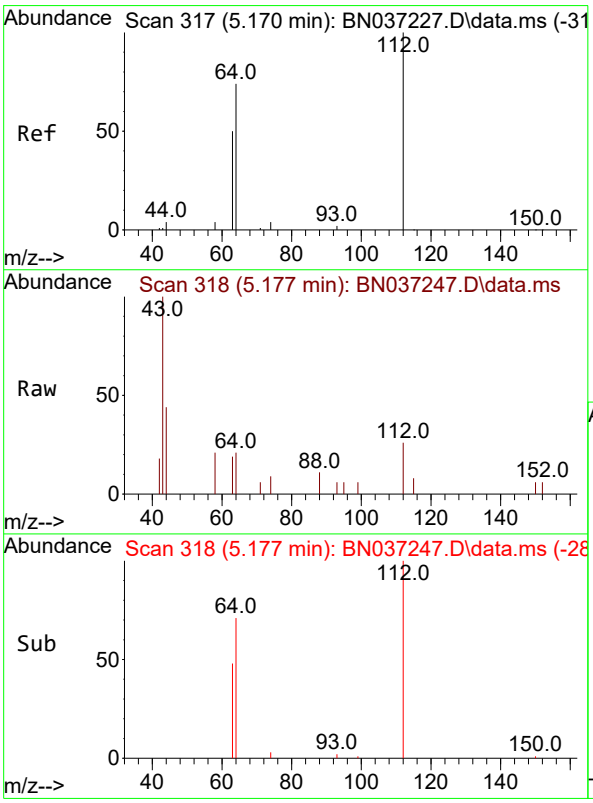
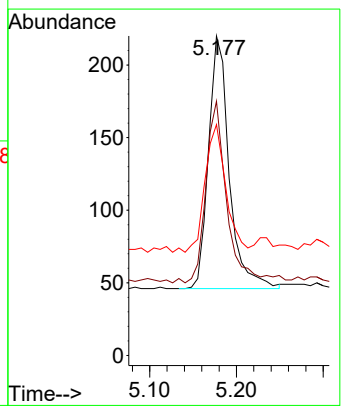
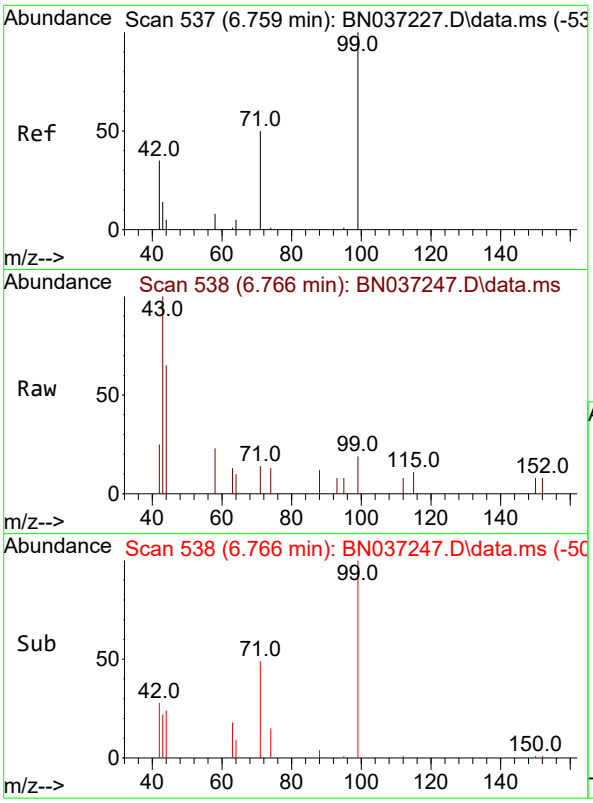


#4
2-Fluorophenol
Concen: 0.132 ng
RT: 5.177 min Scan# 318
Delta R.T. 0.007 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Tgt Ion:112 Resp: 288

Ion	Ratio	Lower	Upper
112	100		
64	73.3	57.2	85.8
63	50.7	39.8	59.6

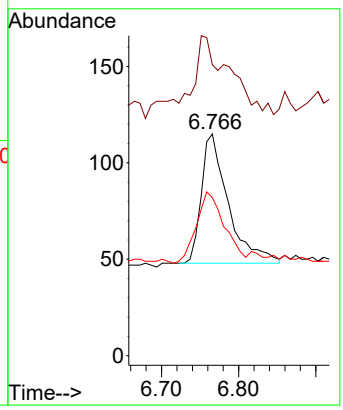




#5
Phenol-d6
Concen: 0.070 ng
RT: 6.766 min Scan# 5
Delta R.T. 0.007 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Tgt Ion: 99 Resp: 16

Ion	Ratio	Lower	Upper
99	100		
42	62.3	36.2	54.4
71	58.0	42.4	63.6



Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MSD

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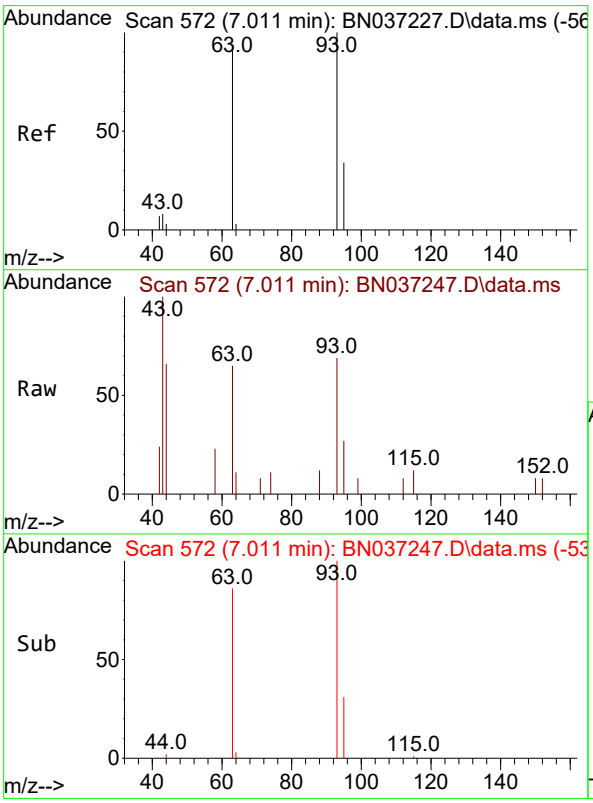
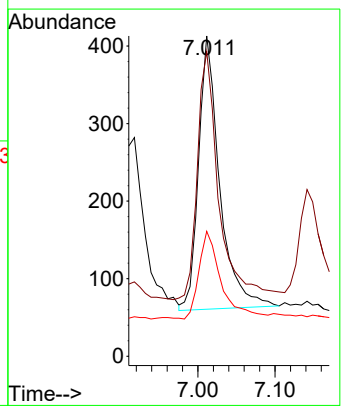
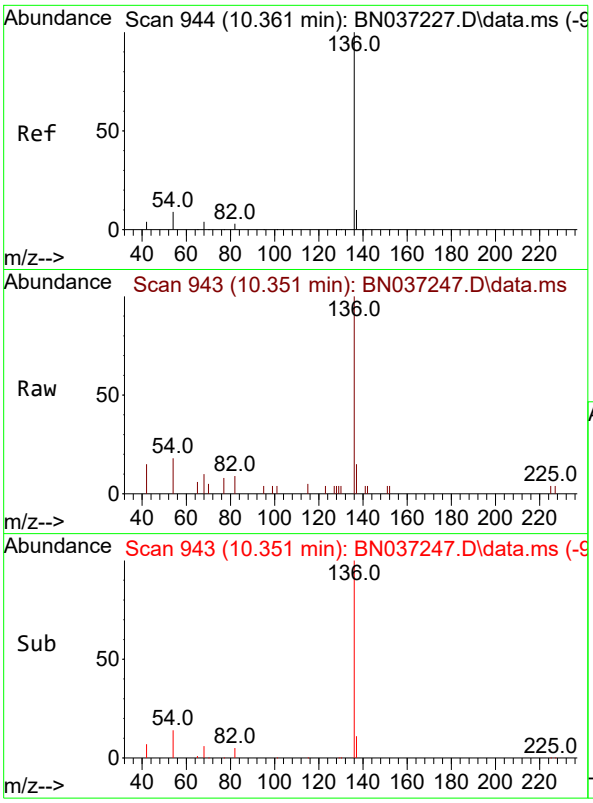


#6
bis(2-Chloroethyl)ether
Concen: 0.324 ng
RT: 7.011 min Scan# 572
Delta R.T. -0.000 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Tgt Ion: 93 Resp: 668

Ion	Ratio	Lower	Upper
93	100		
63	93.1	75.2	112.8
95	33.1	28.3	42.5

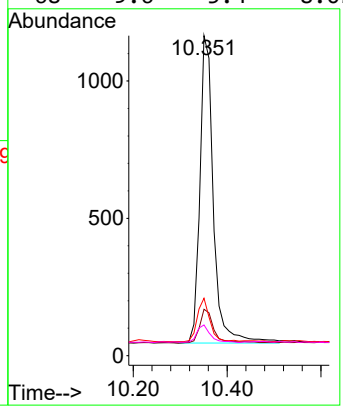




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Tgt Ion:136 Resp: 224

Ion	Ratio	Lower	Upper
136	100		
137	14.5	10.6	15.8
54	17.9	9.2	13.8#
68	9.6	5.4	8.0#



Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MSD

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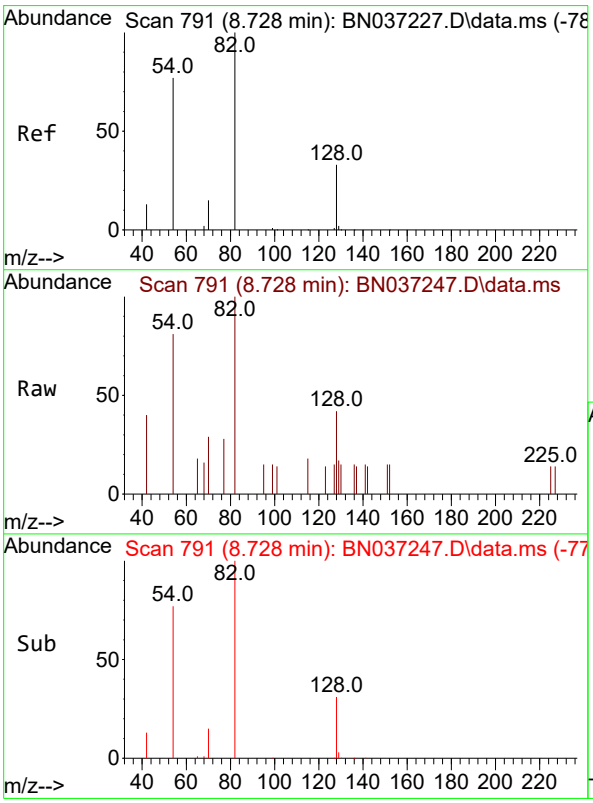
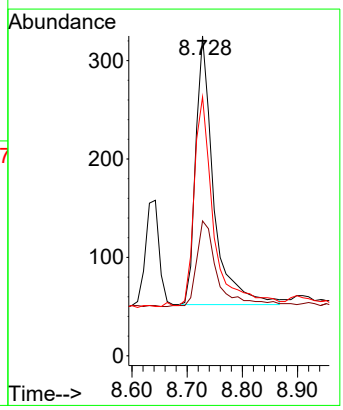
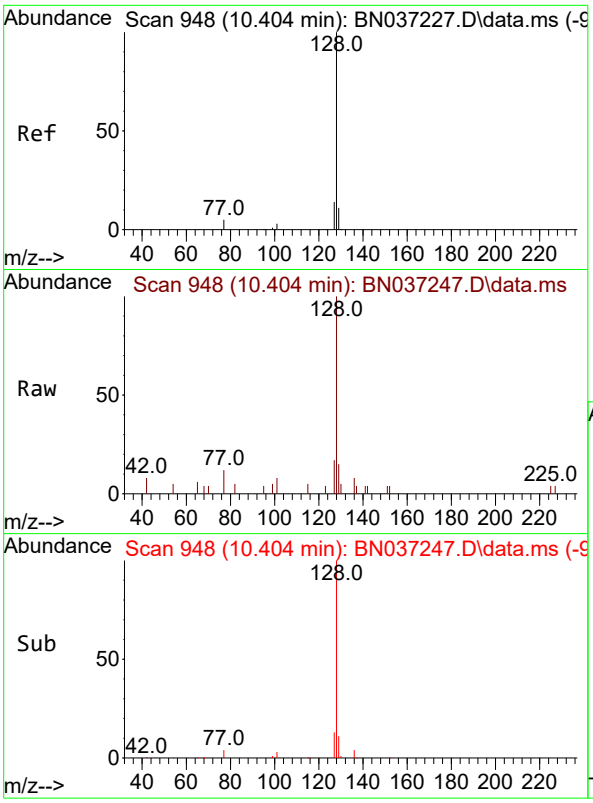


#8
Nitrobenzene-d5
Concen: 0.278 ng
RT: 8.728 min Scan# 791
Delta R.T. -0.000 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Tgt Ion: 82 Resp: 616

Ion	Ratio	Lower	Upper
82	100		
128	42.2	31.2	46.8
54	80.9	63.3	94.9

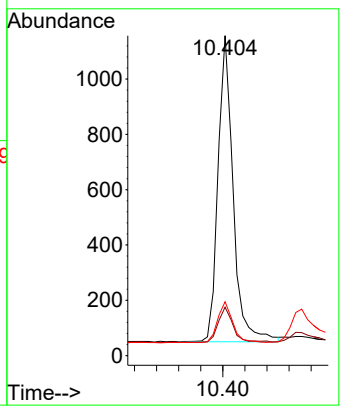




#9
Naphthalene
Concen: 0.324 ng
RT: 10.404 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Tgt Ion:128 Resp: 210

Ion	Ratio	Lower	Upper
128	100		
129	15.1	10.7	16.1
127	16.9	12.6	19.0



Instrument :
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ClientSampleId :
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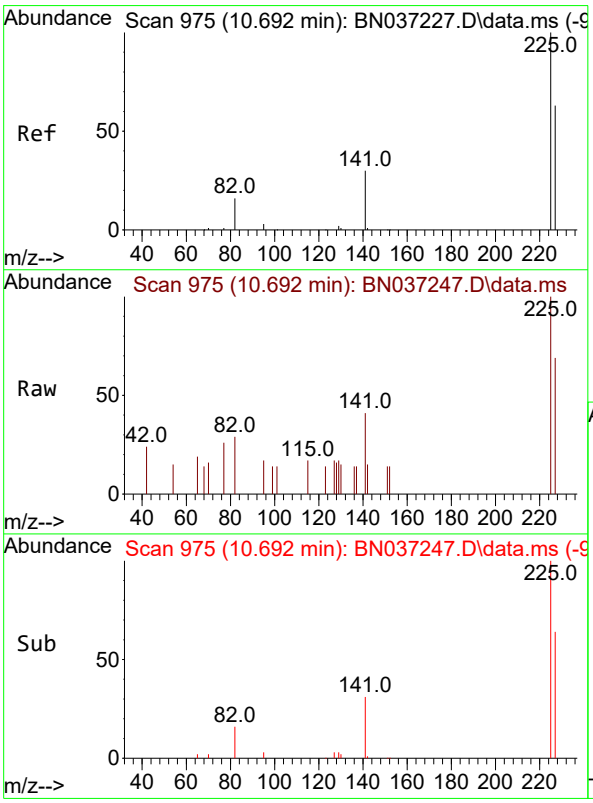
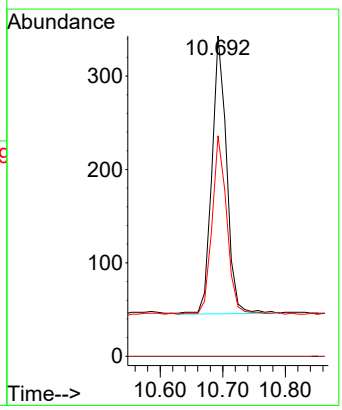
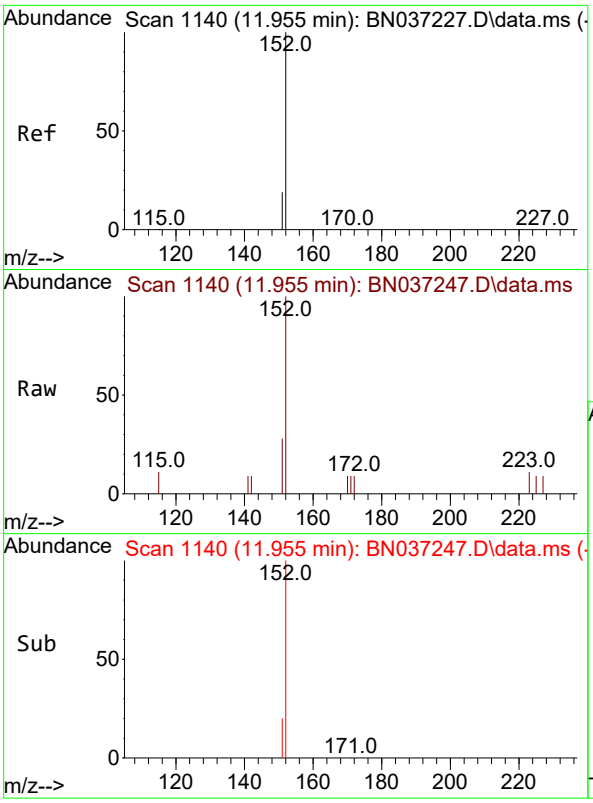


#10
Hexachlorobutadiene
Concen: 0.307 ng
RT: 10.692 min Scan# 975
Delta R.T. -0.000 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Tgt Ion:225 Resp: 485

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.9	49.2	73.8

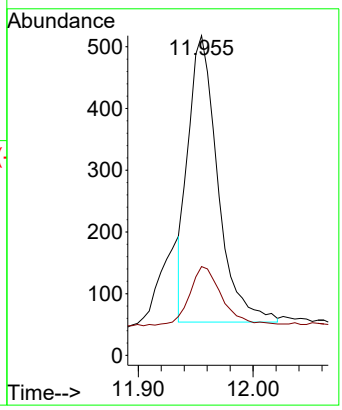




#11
2-Methylnaphthalene-d10
Concen: 0.276 ng m
RT: 11.955 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Tgt Ion:152 Resp: 83

Ion	Ratio	Lower	Upper
152	100		
151	23.2	17.9	26.9



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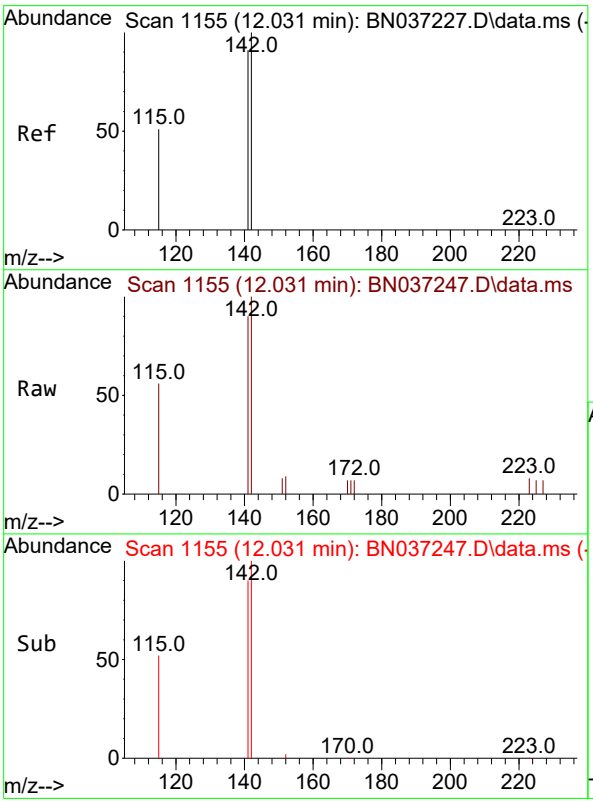
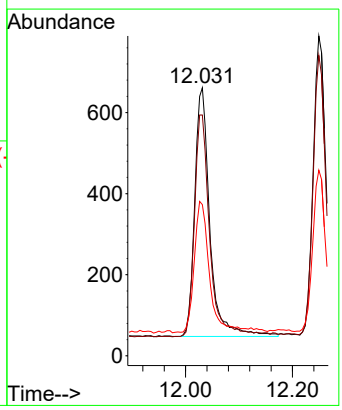
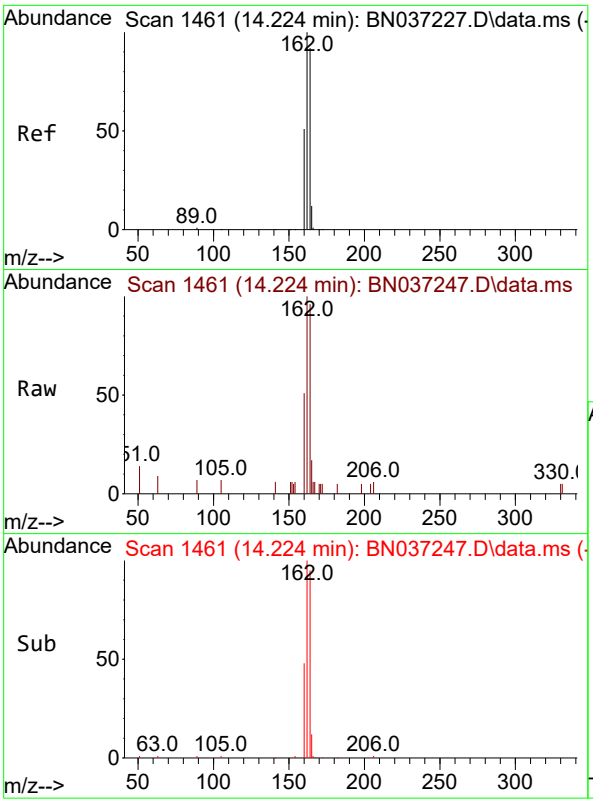


#12
2-Methylnaphthalene
Concen: 0.306 ng
RT: 12.031 min Scan# 1155
Delta R.T. -0.000 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Tgt Ion:142 Resp: 1206

Ion	Ratio	Lower	Upper
142	100		
141	89.9	73.0	109.6
115	56.4	43.3	64.9

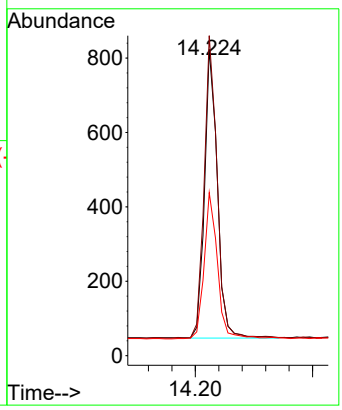




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Tgt Ion:164 Resp: 118

Ion	Ratio	Lower	Upper
164	100		
162	104.5	86.7	130.1
160	53.2	45.8	68.6



Instrument :
BNA_N
ClientSampleId :
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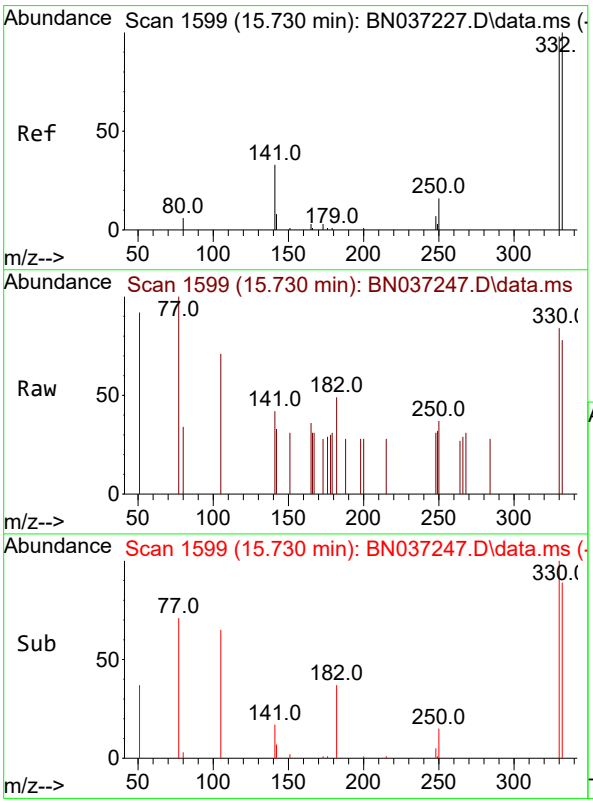
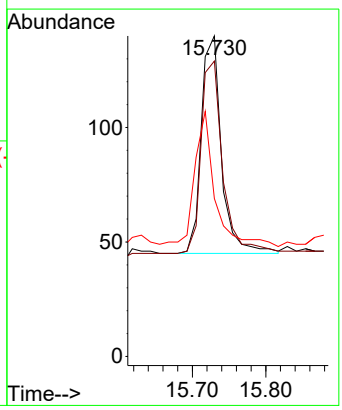
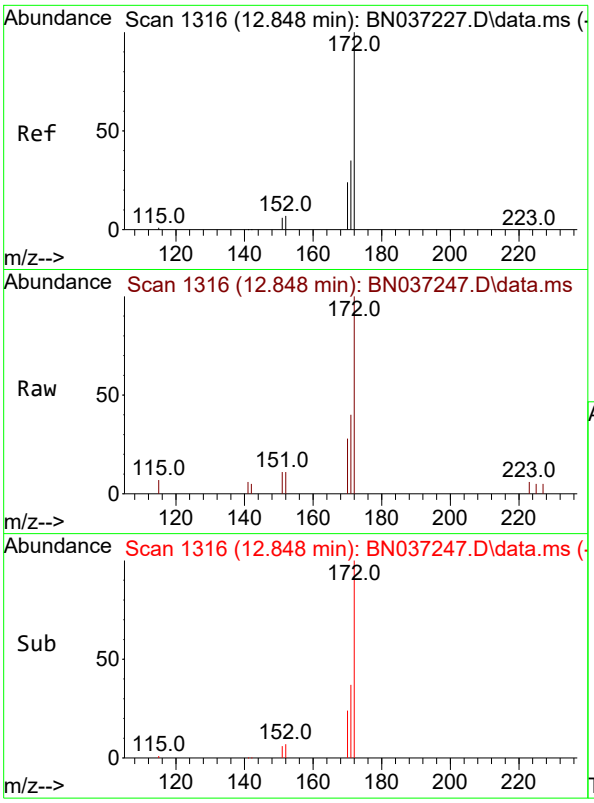


#14
2,4,6-Tribromophenol
Concen: 0.370 ng
RT: 15.730 min Scan# 1599
Delta R.T. -0.000 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Tgt Ion:330 Resp: 182

Ion	Ratio	Lower	Upper
330	100		
332	96.7	74.9	112.3
141	62.6	45.1	67.7

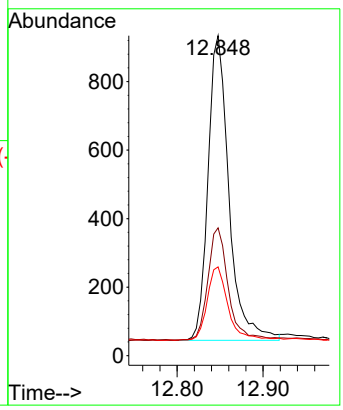




#15
2-Fluorobiphenyl
Concen: 0.302 ng
RT: 12.848 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Tgt Ion:172 Resp: 150

Ion	Ratio	Lower	Upper
172	100		
171	39.9	29.8	44.8
170	27.7	21.1	31.7



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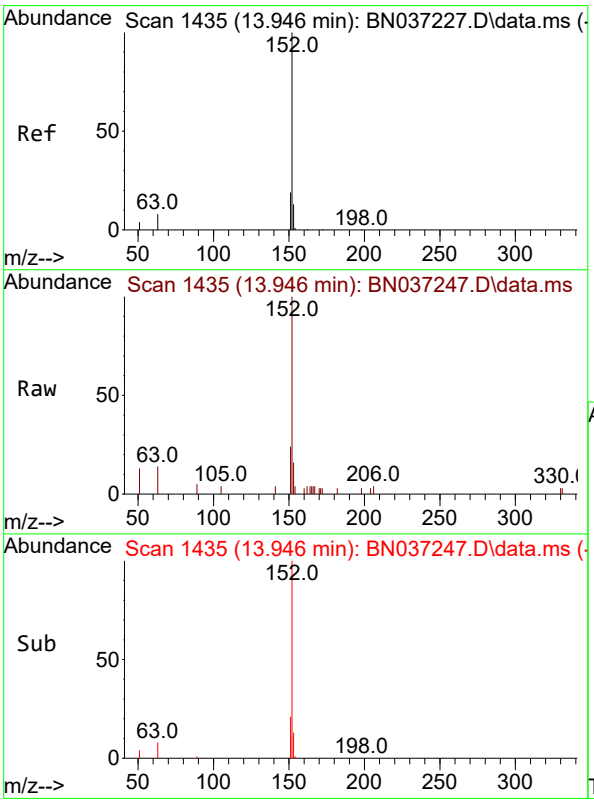
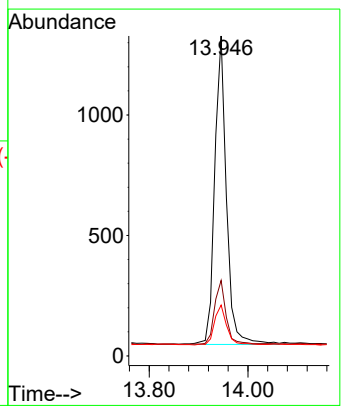
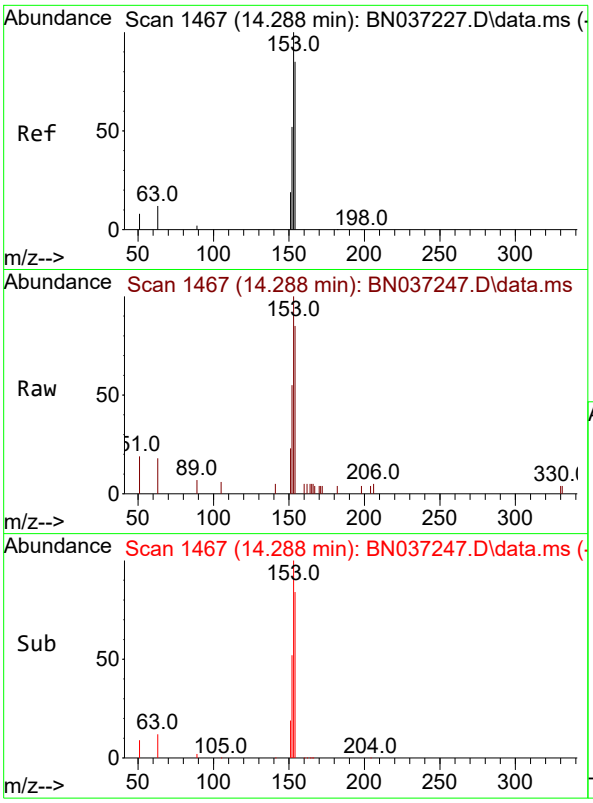


#16
Acenaphthylene
Concen: 0.363 ng
RT: 13.946 min Scan# 1435
Delta R.T. -0.000 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Tgt Ion:152 Resp: 2106

Ion	Ratio	Lower	Upper
152	100		
151	20.0	15.7	23.5
153	13.6	10.7	16.1

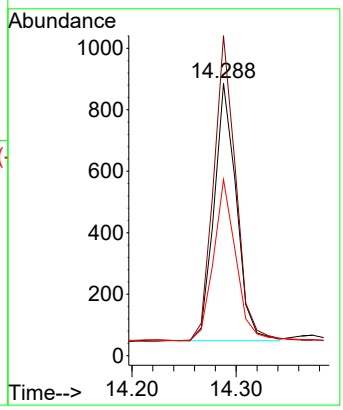




#17
Acenaphthene
Concen: 0.332 ng
RT: 14.288 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Tgt Ion:154 Resp: 124

Ion	Ratio	Lower	Upper
154	100		
153	119.7	94.6	141.8
152	64.1	49.6	74.4



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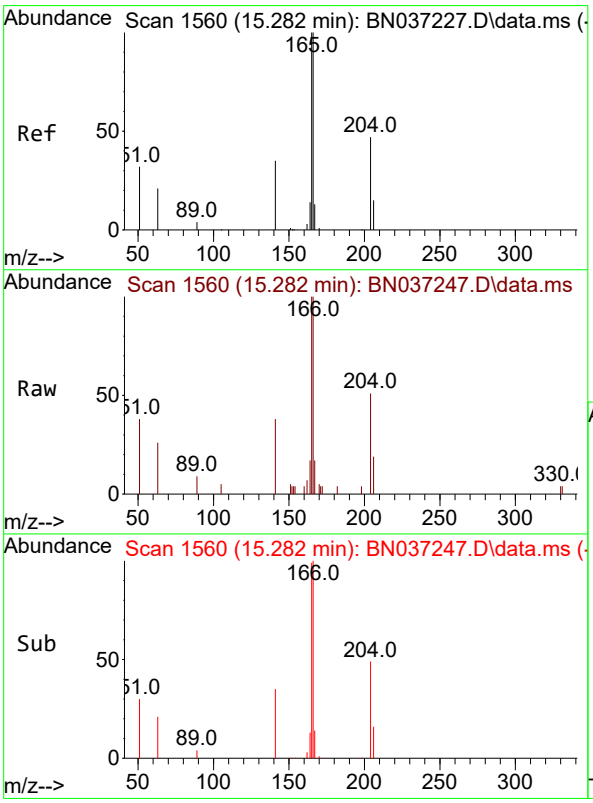
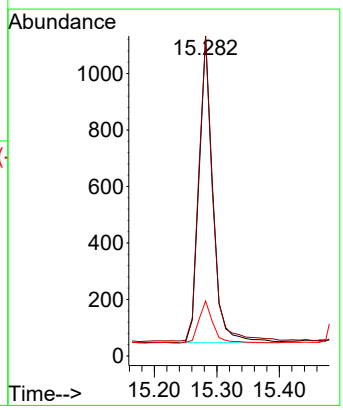
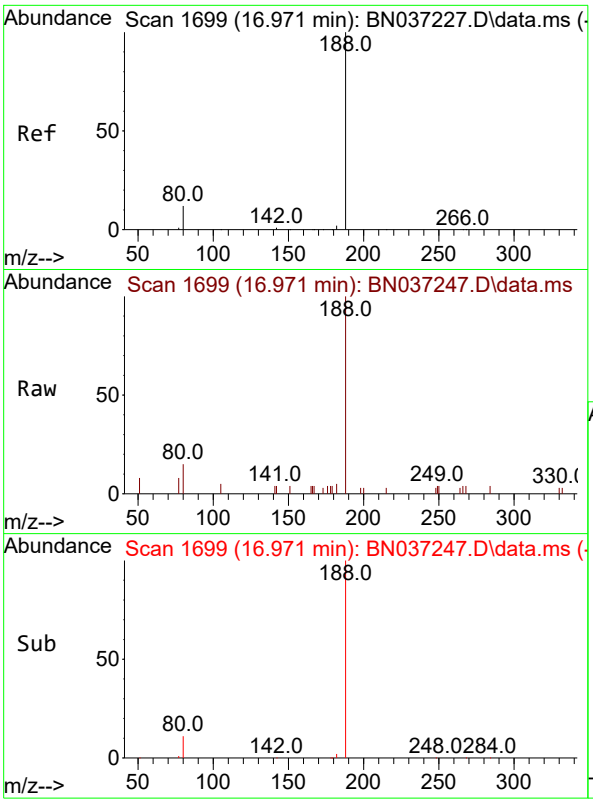


#18
Fluorene
Concen: 0.349 ng
RT: 15.282 min Scan# 1560
Delta R.T. -0.000 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Tgt Ion:166 Resp: 1681

Ion	Ratio	Lower	Upper
166	100		
165	99.1	79.8	119.6
167	13.9	10.8	16.2

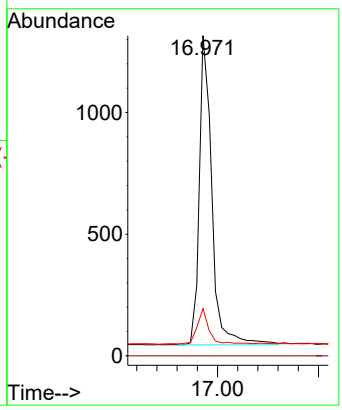




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Tgt Ion:188 Resp: 219

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	14.7	12.2	18.4



Instrument :
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ClientSampleId :
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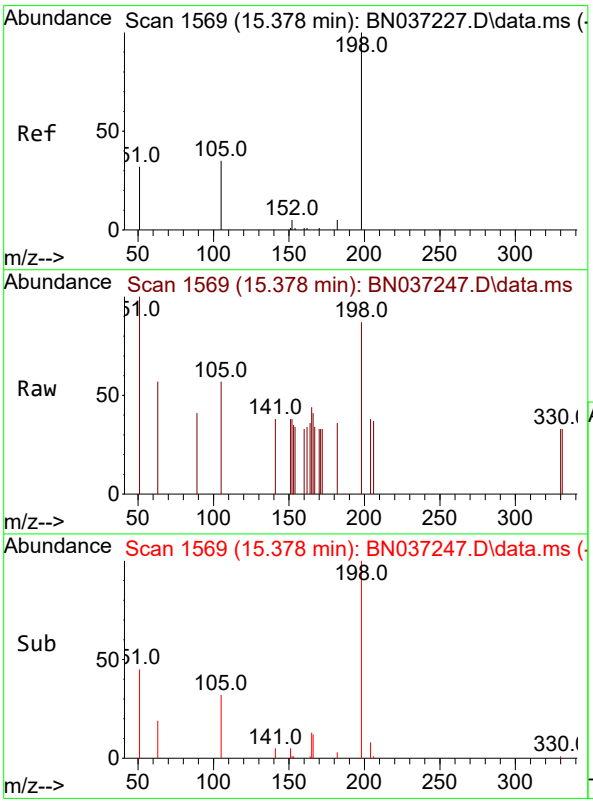
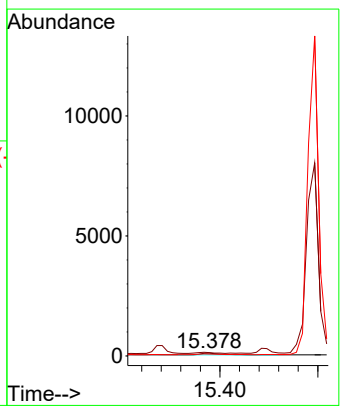
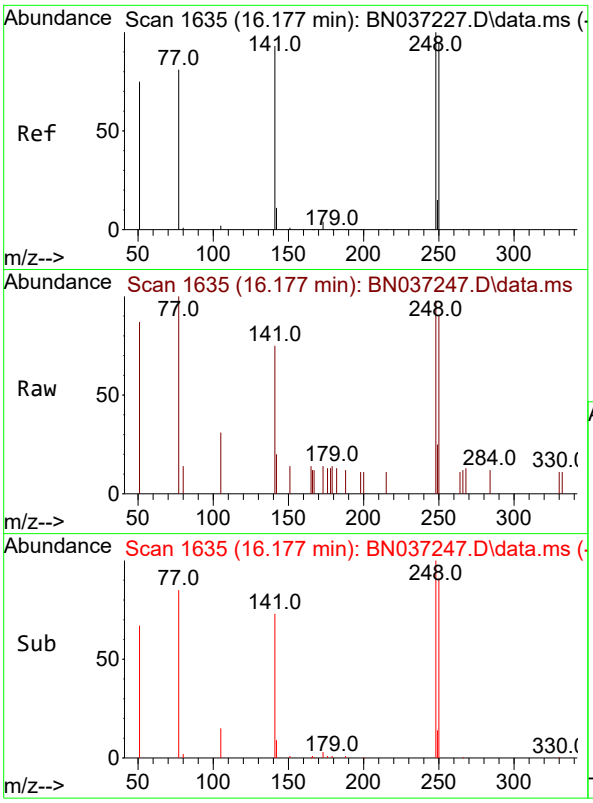


#20
4,6-Dinitro-2-methylphenol
Concen: 0.473 ng
RT: 15.378 min Scan# 1569
Delta R.T. 0.000 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Tgt Ion:198 Resp: 206

Ion	Ratio	Lower	Upper
198	100		
51	115.0	111.2	166.8
105	65.8	54.0	81.0

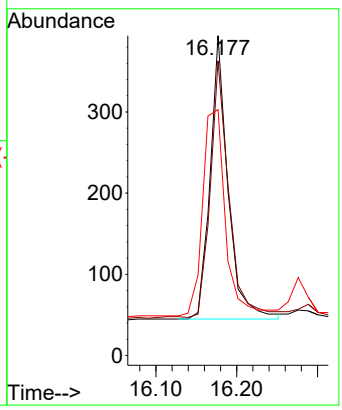




#21
4-Bromophenyl-phenylether
Concen: 0.375 ng
RT: 16.177 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Tgt Ion:248 Resp: 53

Ion	Ratio	Lower	Upper
248	100		
250	92.1	76.8	115.2
141	76.9	75.6	113.4



Instrument :
BNA_N
ClientSampleId :
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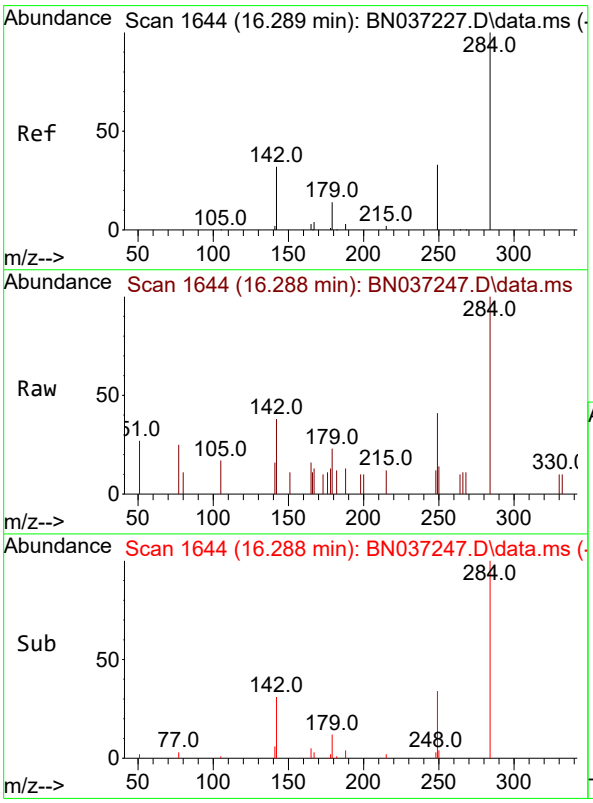
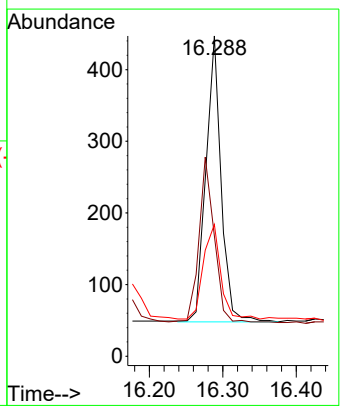
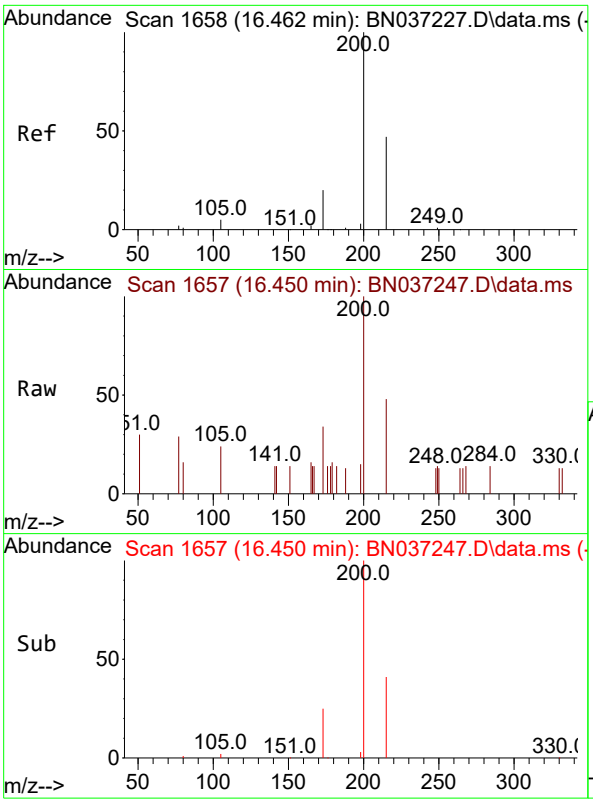


#22
Hexachlorobenzene
Concen: 0.345 ng
RT: 16.288 min Scan# 1644
Delta R.T. -0.000 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Tgt Ion:284 Resp: 573

Ion	Ratio	Lower	Upper
284	100		
142	58.3	43.8	65.6
249	42.1	28.4	42.6

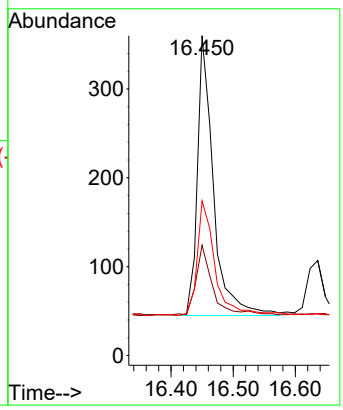




#23
Atrazine
Concen: 0.444 ng
RT: 16.450 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Tgt Ion:200 Resp: 56

Ion	Ratio	Lower	Upper
200	100		
173	34.4	25.1	37.7
215	48.3	43.7	65.5



Instrument :
BNA_N
ClientSampleId :
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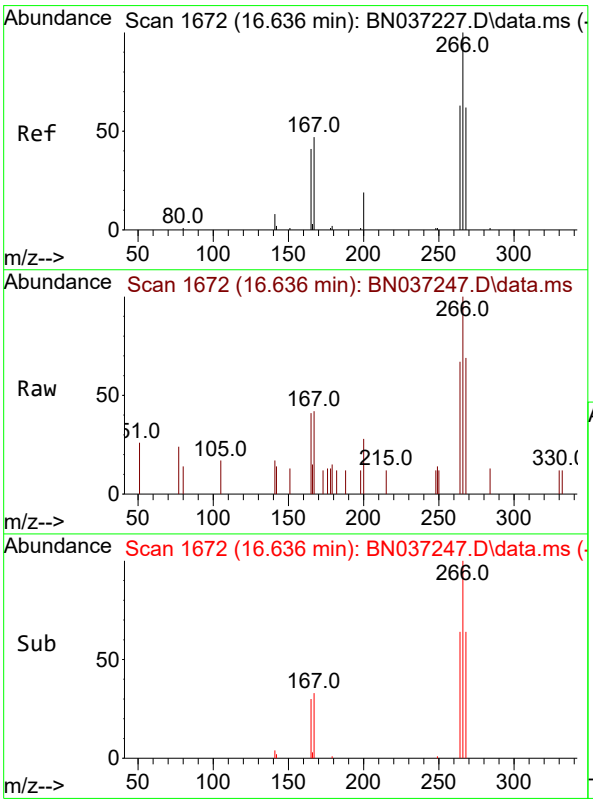
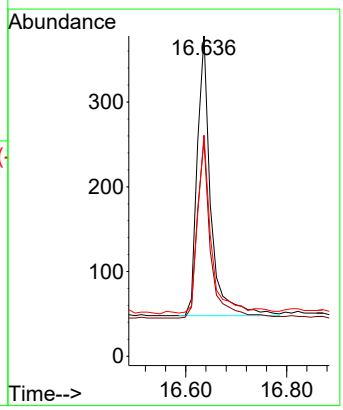
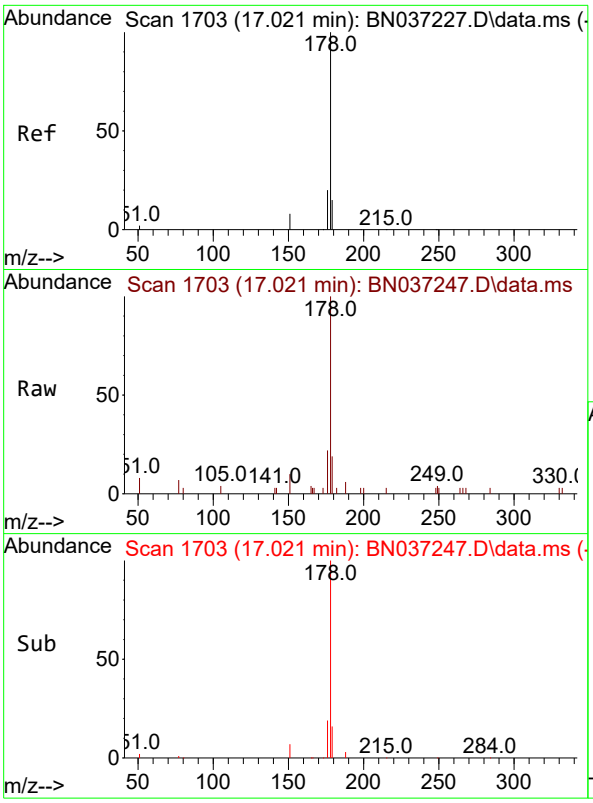


#24
Pentachlorophenol
Concen: 0.754 ng
RT: 16.636 min Scan# 1672
Delta R.T. -0.000 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Tgt Ion:266 Resp: 614

Ion	Ratio	Lower	Upper
266	100		
264	63.4	49.2	73.8
268	63.4	53.4	80.2

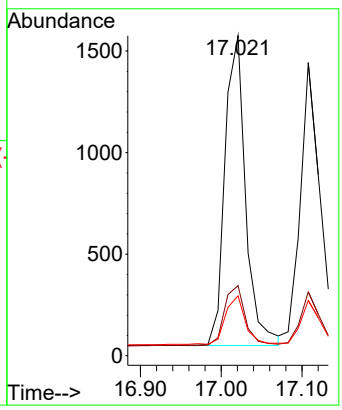




#25
Phenanthrene
Concen: 0.388 ng
RT: 17.021 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Tgt Ion:178 Resp: 270

Ion	Ratio	Lower	Upper
178	100		
176	19.6	16.3	24.5
179	15.6	12.6	18.8



Instrument :
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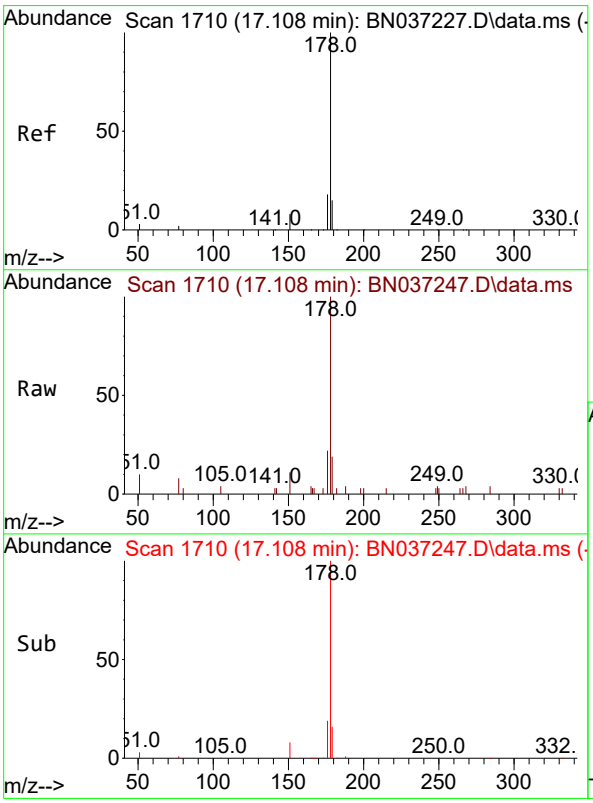
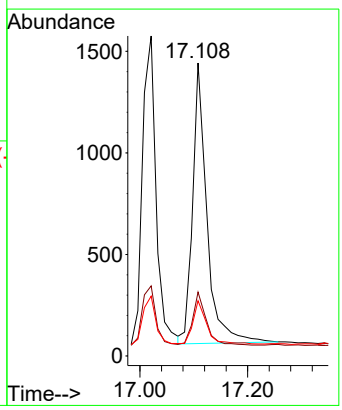
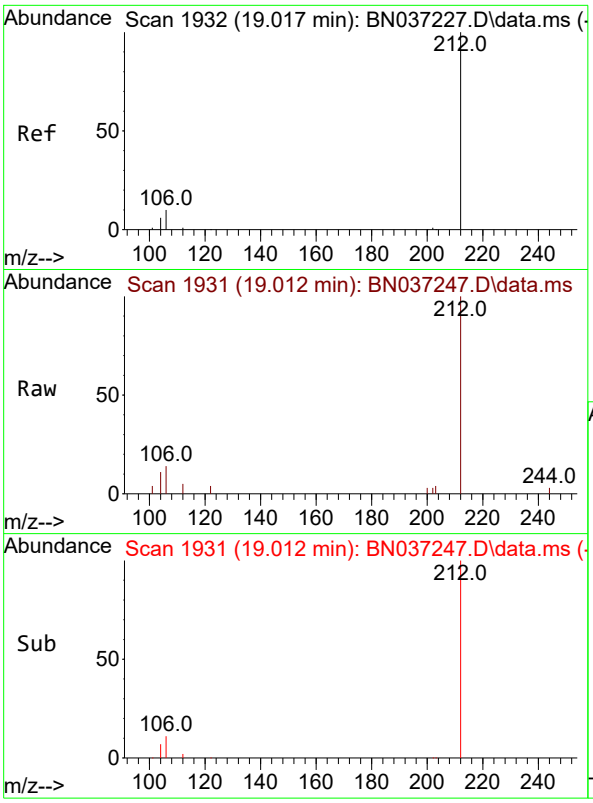


#26
Anthracene
Concen: 0.399 ng
RT: 17.108 min Scan# 1710
Delta R.T. -0.000 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Tgt Ion:178 Resp: 2547

Ion	Ratio	Lower	Upper
178	100		
176	18.0	15.1	22.7
179	15.0	12.4	18.6

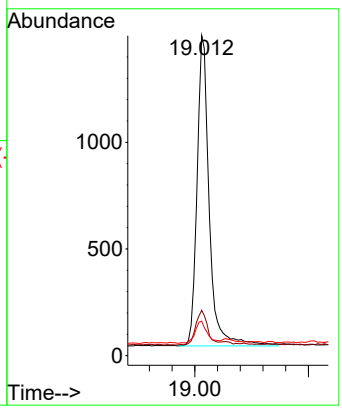




#27
Fluoranthene-d10
Concen: 0.376 ng
RT: 19.012 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Tgt Ion:212 Resp: 216

Ion	Ratio	Lower	Upper
212	100		
106	10.8	9.3	13.9
104	7.1	5.7	8.5



Instrument :
BNA_N
ClientSampleId :
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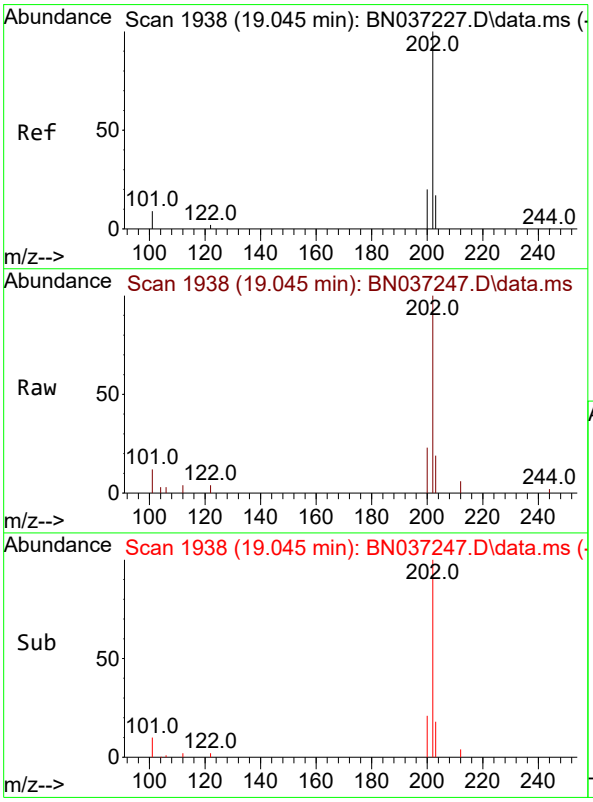
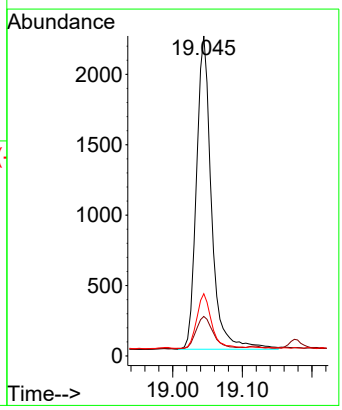
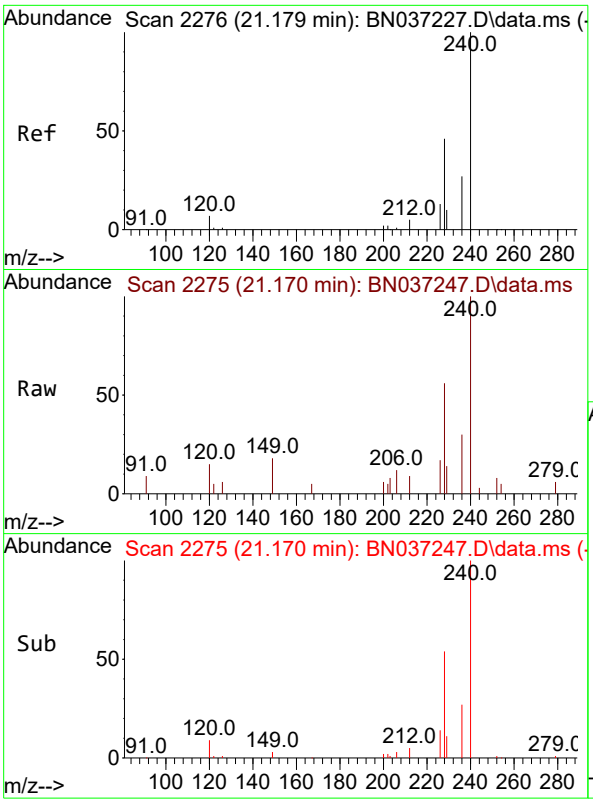


#28
Fluoranthene
Concen: 0.408 ng
RT: 19.045 min Scan# 1938
Delta R.T. -0.000 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Tgt Ion:202 Resp: 3333

Ion	Ratio	Lower	Upper
202	100		
101	12.3	7.1	10.7#
203	17.1	13.0	19.6

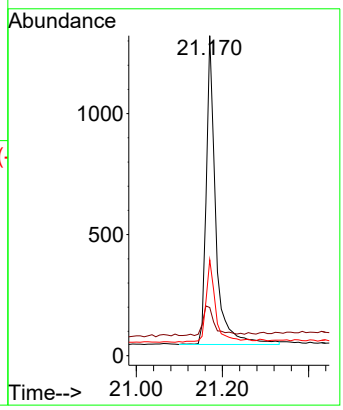




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.170 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Tgt Ion:240 Resp: 195

Ion	Ratio	Lower	Upper
240	100		
120	15.1	11.3	16.9
236	30.0	24.4	36.6



Instrument :
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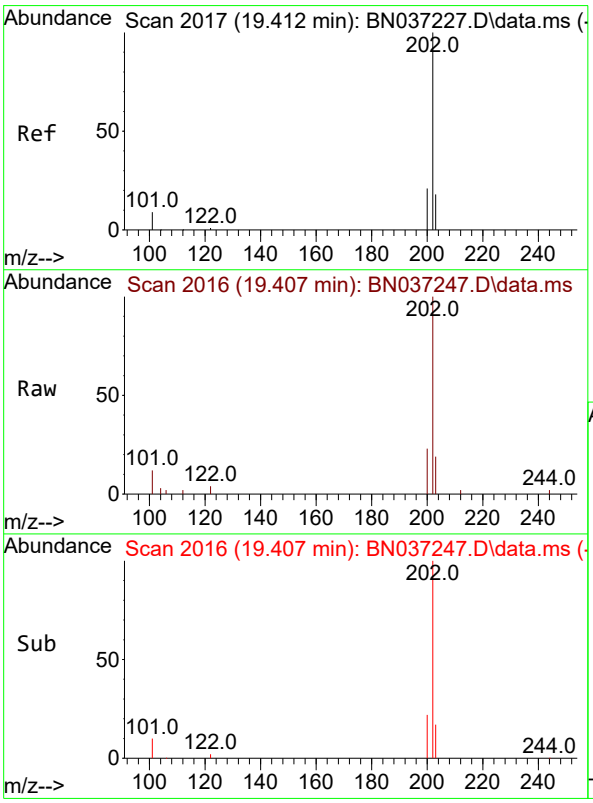
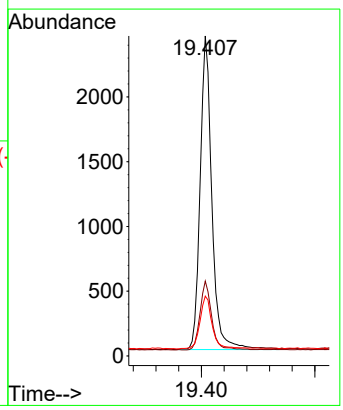
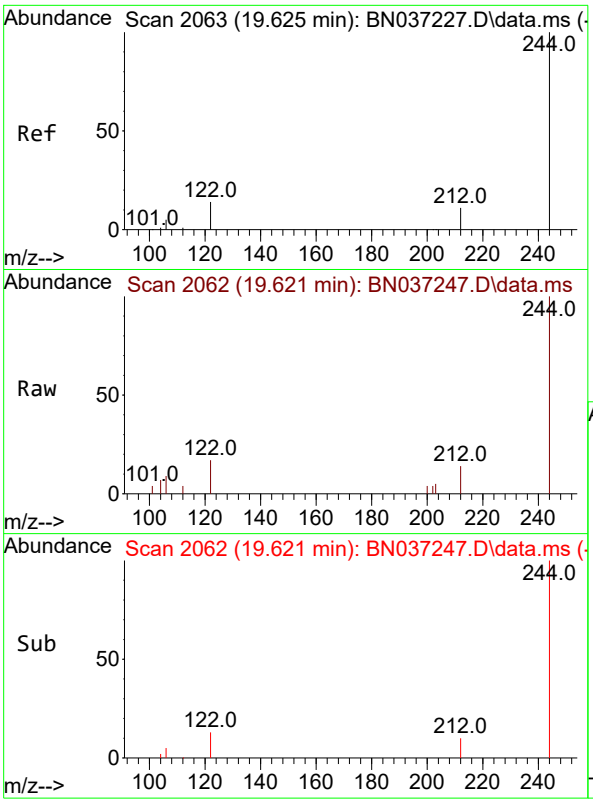


#30
Pyrene
Concen: 0.378 ng
RT: 19.407 min Scan# 2016
Delta R.T. -0.005 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Tgt Ion:202 Resp: 3474

Ion	Ratio	Lower	Upper
202	100		
200	21.7	17.2	25.8
203	17.5	14.3	21.5

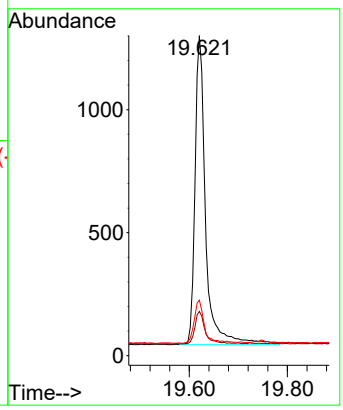




#31
Terphenyl-d14
Concen: 0.426 ng
RT: 19.621 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Tgt Ion:244 Resp: 188

Ion	Ratio	Lower	Upper
244	100		
212	13.8	12.2	18.2
122	17.4	14.3	21.5



Instrument :
BNA_N
ClientSampleId :
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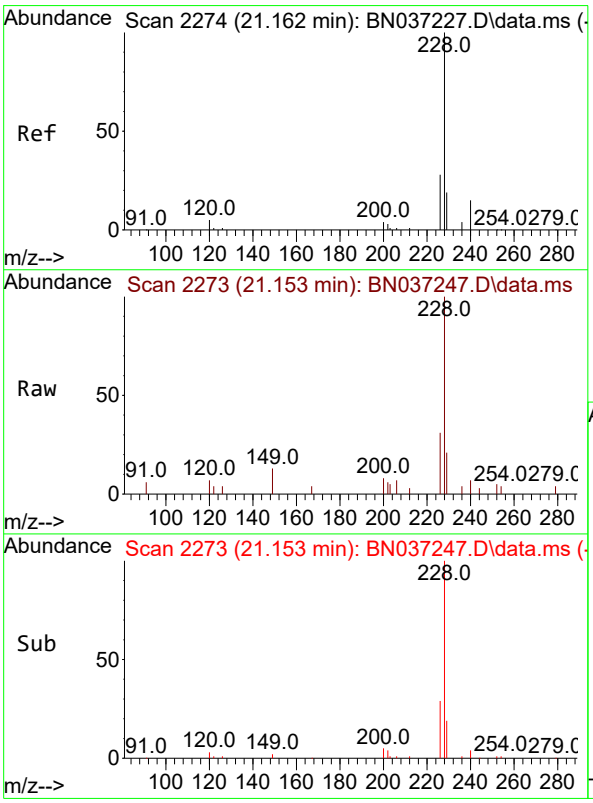
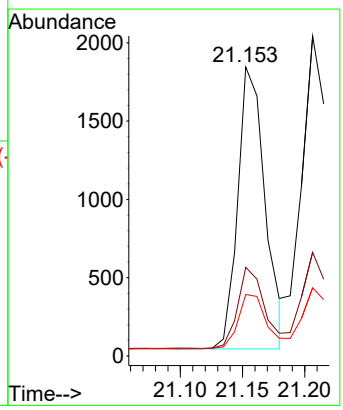
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025

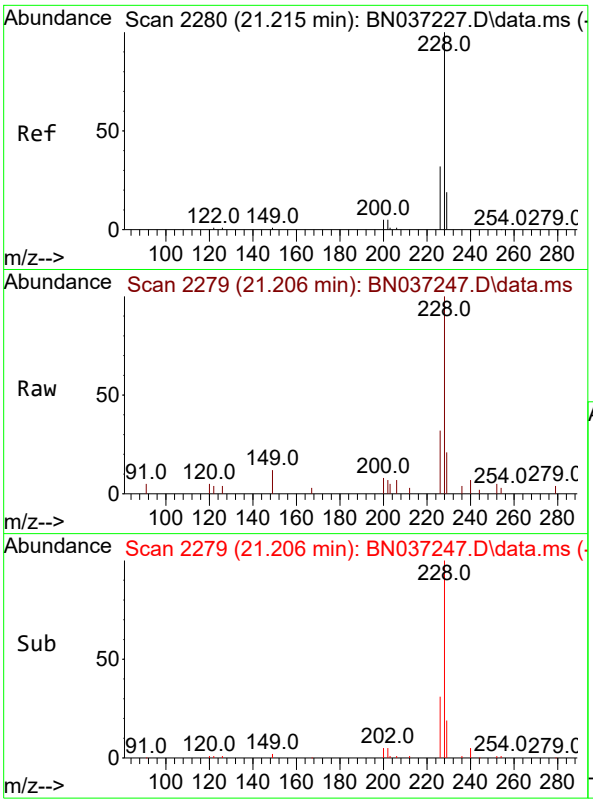


#32
Benzo(a)anthracene
Concen: 0.417 ng
RT: 21.153 min Scan# 2273
Delta R.T. -0.009 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Tgt Ion:228 Resp: 2751

Ion	Ratio	Lower	Upper
228	100		
226	30.7	23.8	35.8
229	21.3	17.0	25.4

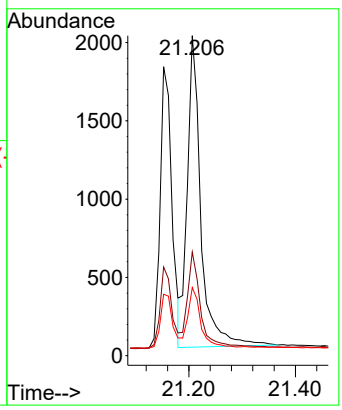




#33
Chrysene
Concen: 0.428 ng
RT: 21.206 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Tgt Ion:228 Resp: 352

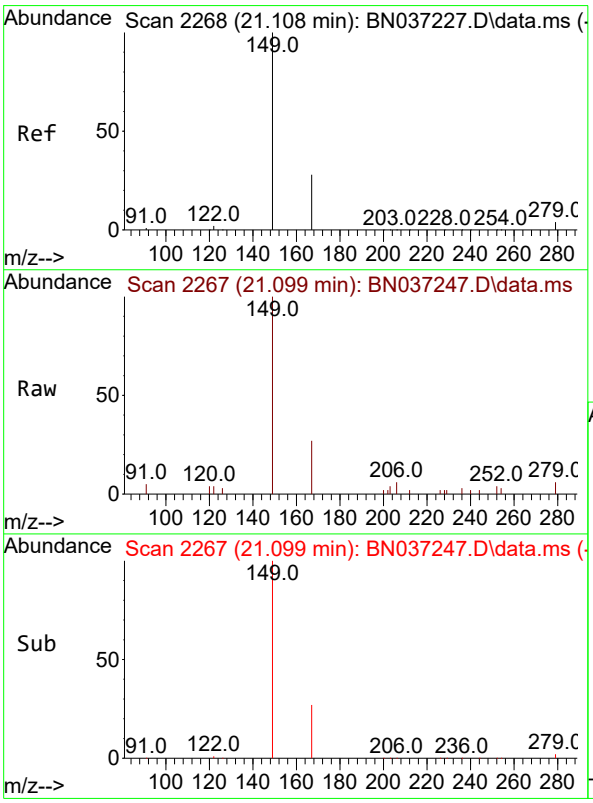
Ion	Ratio	Lower	Upper
228	100		
226	32.4	25.8	38.6
229	21.3	17.0	25.4



Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MSD

Manual Integrations
APPROVED

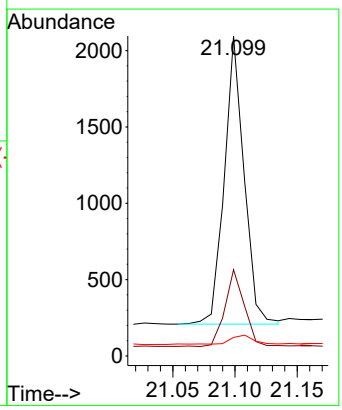
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025

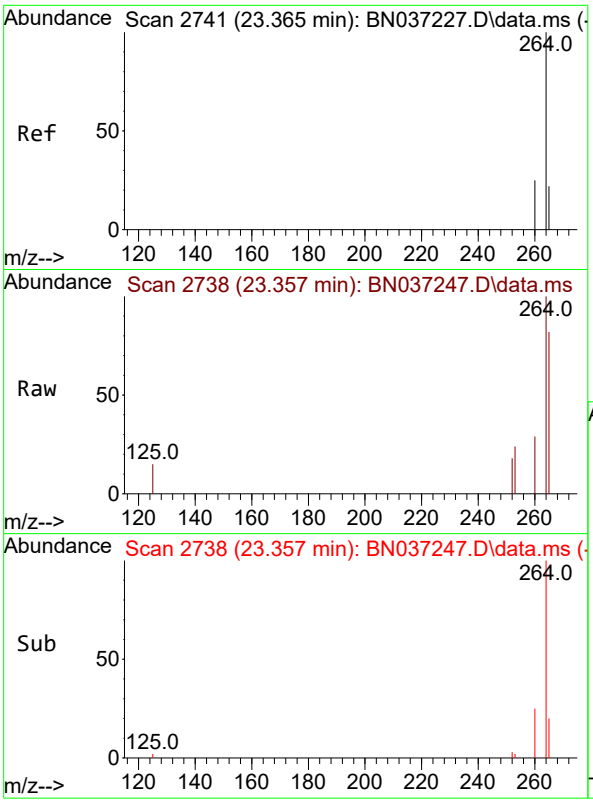


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.422 ng
RT: 21.099 min Scan# 2267
Delta R.T. -0.009 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Tgt Ion:149 Resp: 2078

Ion	Ratio	Lower	Upper
149	100		
167	26.0	21.3	31.9
279	4.0	3.3	4.9

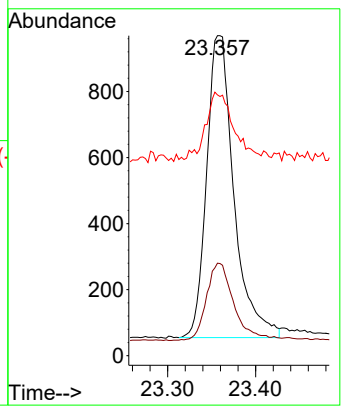




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.357 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Tgt Ion:264 Resp: 196

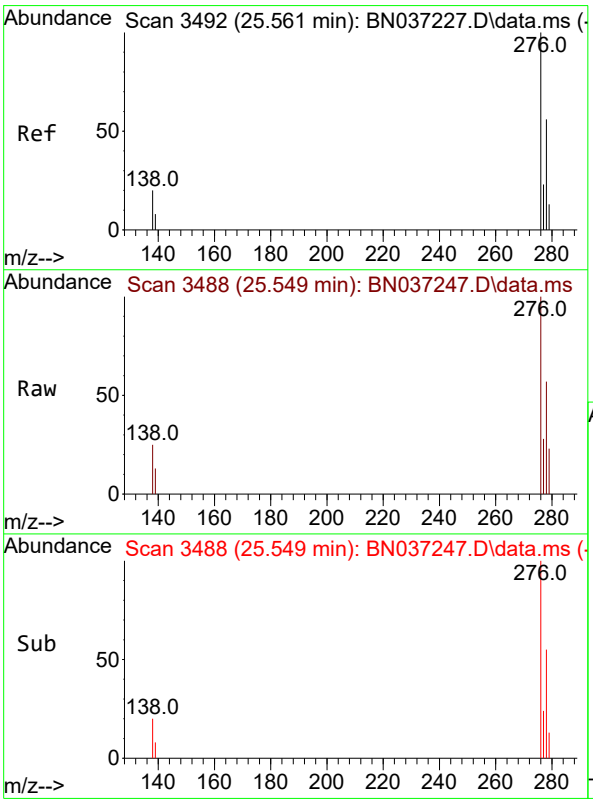
Ion	Ratio	Lower	Upper
264	100		
260	28.9	22.8	34.2
265	81.5	66.4	99.6



Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MSD

Manual Integrations
APPROVED

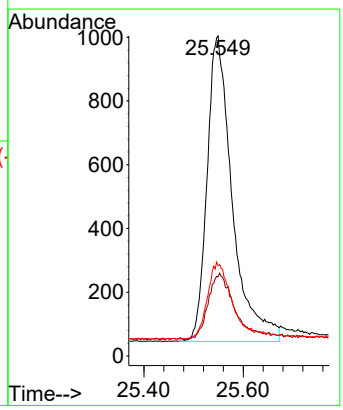
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025

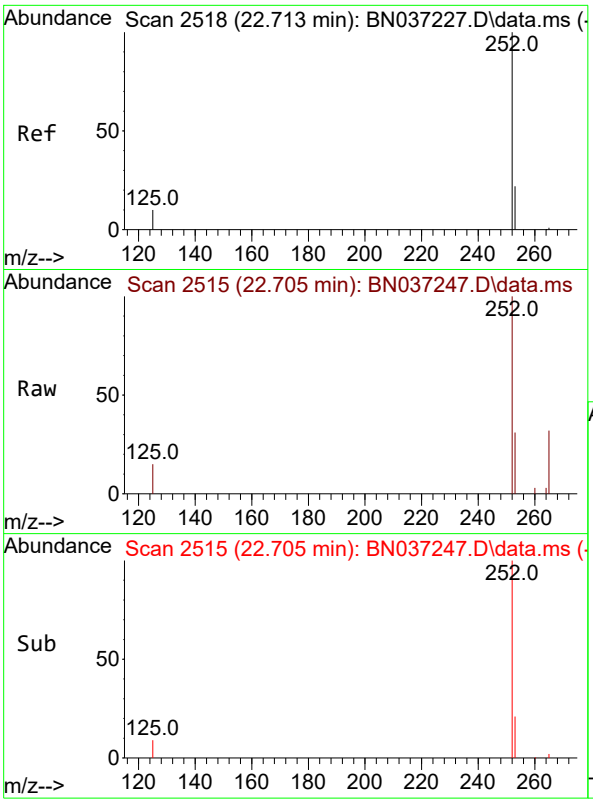


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.426 ng
RT: 25.549 min Scan# 3488
Delta R.T. -0.012 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Tgt Ion:276 Resp: 3380

Ion	Ratio	Lower	Upper
276	100		
138	21.5	16.8	25.2
277	24.0	19.5	29.3





#37
Benzo(b)fluoranthene
Concen: 0.418 ng
RT: 22.705 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

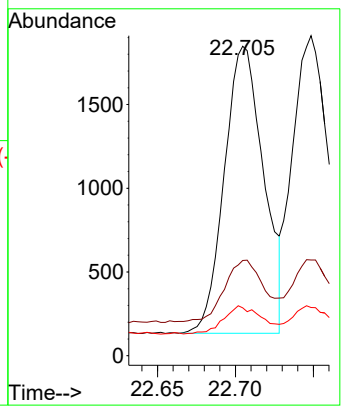
Tgt Ion:252 Resp: 301

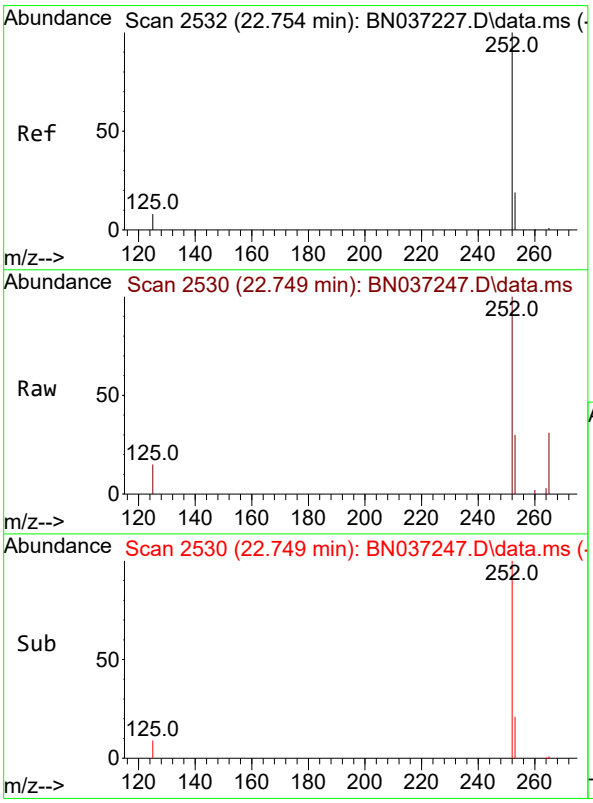
Ion	Ratio	Lower	Upper
252	100		
253	30.8	24.9	37.3
125	15.5	12.9	19.3

Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MSD

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025

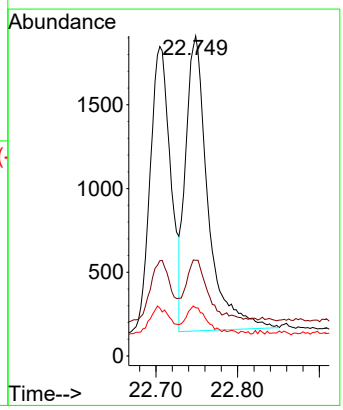


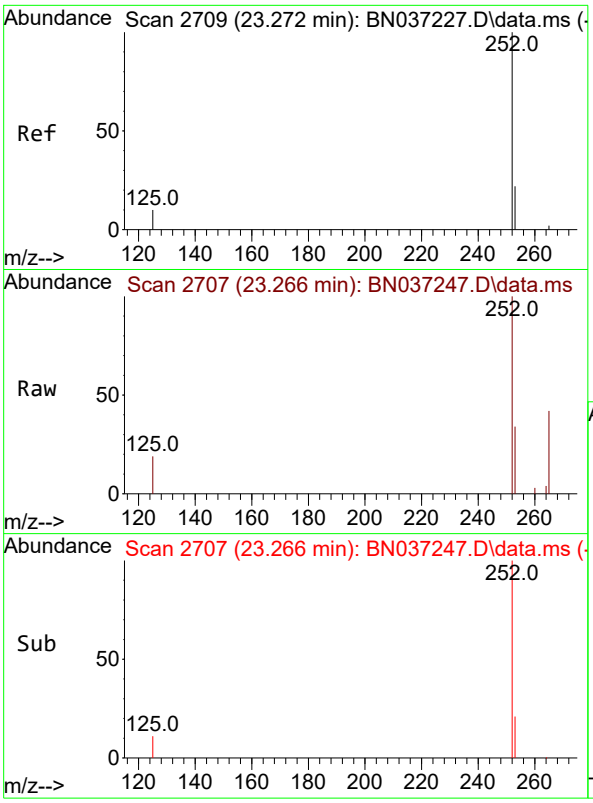


#38
Benzo(k)fluoranthene
Concen: 0.402 ng
RT: 22.749 min Scan# 2530
Delta R.T. -0.006 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Tgt Ion:252 Resp: 3339

Ion	Ratio	Lower	Upper
252	100		
253	29.9	24.6	37.0
125	15.1	13.4	20.2





#39
Benzo(a)pyrene
Concen: 0.431 ng
RT: 23.266 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

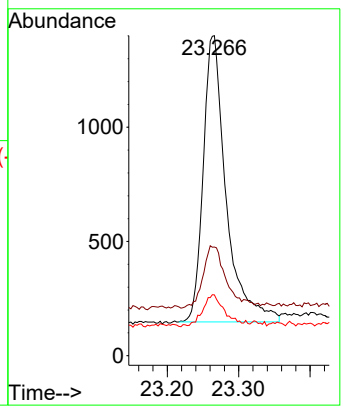
Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MSD

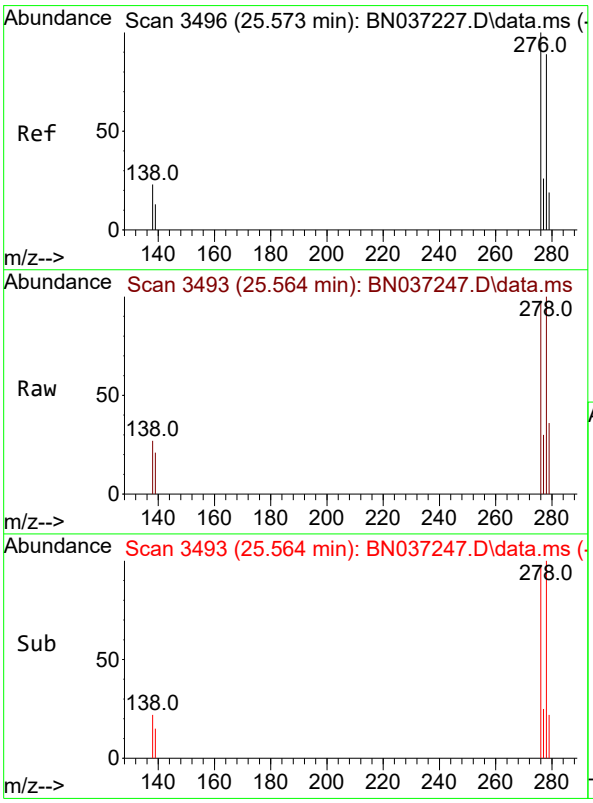
Tgt Ion:252 Resp: 279

Ion	Ratio	Lower	Upper
252	100		
253	34.0	29.4	44.2
125	19.0	16.2	24.2

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025

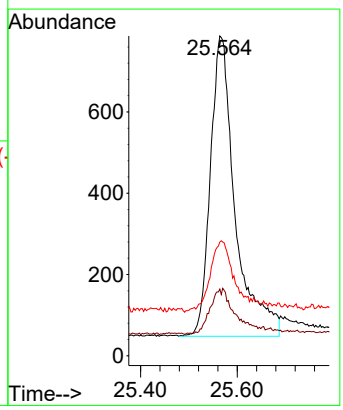


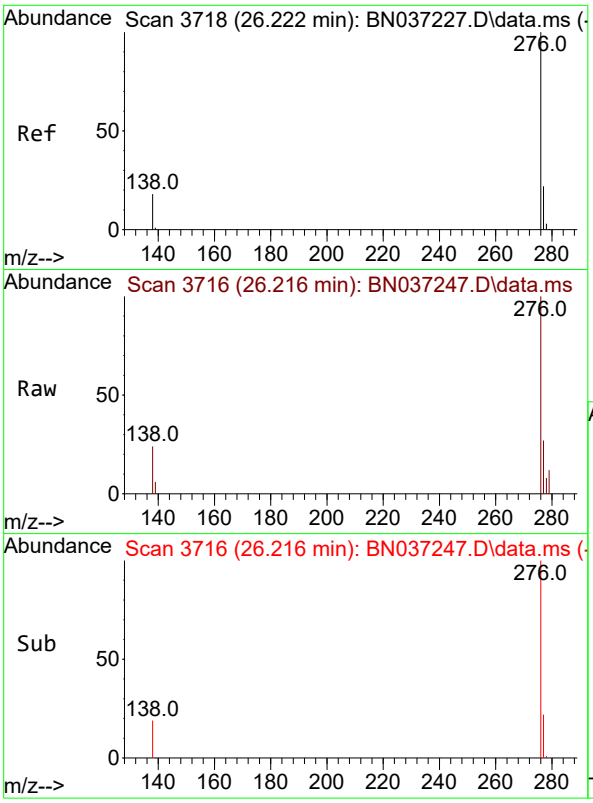


#40
Dibenzo(a,h)anthracene
Concen: 0.437 ng
RT: 25.564 min Scan# 3493
Delta R.T. -0.009 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Tgt Ion:278 Resp: 2637

Ion	Ratio	Lower	Upper
278	100		
139	20.8	17.8	26.6
279	35.6	31.3	46.9

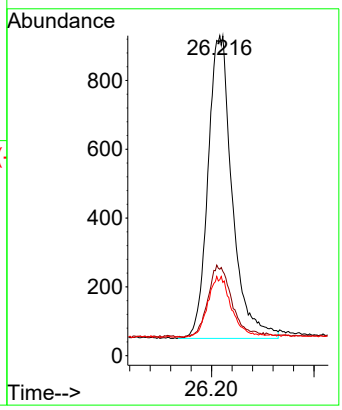




#41
Benzo(g,h,i)perylene
Concen: 0.393 ng
RT: 26.216 min Scan# 3
Delta R.T. -0.006 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Tgt Ion:276 Resp: 289

Ion	Ratio	Lower	Upper
276	100		
277	27.0	22.0	33.0
138	23.8	18.4	27.6



Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MSD

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025

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

Manual Integration Report

Sequence:	BN061325	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC0.1	BN037225.D	Benzo(k)fluoranthene	anahy	6/16/2025 10:00:46 AM	Jagrut	6/16/2025 10:17:11 AM	Peak Integrated by Software
SSTDICC0.1	BN037225.D	Dibenzo(a,h)anthracene	anahy	6/16/2025 10:00:46 AM	Jagrut	6/16/2025 10:17:11 AM	Peak Integrated by Software
Q2299-03MS	BN037246.D	2-Methylnaphthalene-d10	anahy	6/16/2025 10:02:44 AM	Jagrut	6/16/2025 10:16:56 AM	Peak Integrated by Software
Q2299-04MSD	BN037247.D	2-Methylnaphthalene-d10	anahy	6/16/2025 10:03:18 AM	Jagrut	6/16/2025 10:16:58 AM	Peak Integrated by Software
PB168458BS	BN037270.D	2-Methylnaphthalene-d10	anahy	6/16/2025 10:03:58 AM	Jagrut	6/16/2025 10:17:01 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	BN061625	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

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

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN061325

Review By	anahy	Review On	6/16/2025 10:18:23 AM		
Supervise By	Jagrut	Supervise On	6/16/2025 10:18:34 AM		
SubDirectory	BN061325	HP Acquire Method	BNA_N, 8270_SIM	HP Processing Method	bn061325

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6781,SP6780,SP6779,SP6778,SP6777,SP6776,SP6775
CCC	SP6779
Internal Standard/PEM	SP6740,1ul/100ul sample
ICV/I.BLK	SP6768
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN037223.D	13 Jun 2025 11:34	RC/JU	Ok
2	SSTDCCC0.4	BN037224.D	13 Jun 2025 12:50	RC/JU	Not Ok
3	SSTDICC0.1	BN037225.D	13 Jun 2025 13:33	RC/JU	Ok,M
4	SSTDICC0.2	BN037226.D	13 Jun 2025 14:10	RC/JU	Ok
5	SSTDICCC0.4	BN037227.D	13 Jun 2025 14:46	RC/JU	Ok
6	SSTDICC0.8	BN037228.D	13 Jun 2025 15:22	RC/JU	Ok
7	SSTDICC1.6	BN037229.D	13 Jun 2025 15:59	RC/JU	Ok
8	SSTDICC3.2	BN037230.D	13 Jun 2025 16:35	RC/JU	Ok
9	SSTDICC5.0	BN037231.D	13 Jun 2025 17:11	RC/JU	Ok
10	SSTDICV0.4	BN037232.D	13 Jun 2025 17:47	RC/JU	Ok
11	PB168391BL	BN037233.D	13 Jun 2025 19:00	RC/JU	Ok
12	Q2275-01	BN037234.D	13 Jun 2025 19:36	RC/JU	Ok
13	Q2275-03	BN037235.D	13 Jun 2025 20:12	RC/JU	Ok
14	PB168391BS	BN037236.D	13 Jun 2025 20:49	RC/JU	Ok,M
15	PB168391BSD	BN037237.D	13 Jun 2025 21:25	RC/JU	Ok,M
16	SSTDCCC0.4	BN037238.D	13 Jun 2025 22:01	RC/JU	Ok
17	DFTPP	BN037239.D	13 Jun 2025 23:16	RC/JU	Ok
18	SSTDCCC0.4	BN037240.D	13 Jun 2025 23:55	RC/JU	Ok
19	PB168458BL	BN037241.D	14 Jun 2025 00:31	RC/JU	Ok
20	Q2263-01	BN037242.D	14 Jun 2025 01:08	RC/JU	Ok
21	Q2263-02	BN037243.D	14 Jun 2025 01:44	RC/JU	Ok

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN061325

Review By	anahy	Review On	6/16/2025 10:18:23 AM		
Supervise By	Jagrut	Supervise On	6/16/2025 10:18:34 AM		
SubDirectory	BN061325	HP Acquire Method	BNA_N, 8270_SIM	HP Processing Method	bn061325

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6781,SP6780,SP6779,SP6778,SP6777,SP6776,SP6775
CCC	SP6779
Internal Standard/PEM	SP6740,1ul/100ul sample
ICV/I.BLK	SP6768
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q2299-01	BN037244.D	14 Jun 2025 02:20	RC/JU	Ok
23	Q2299-02	BN037245.D	14 Jun 2025 02:56	RC/JU	Ok
24	Q2299-03MS	BN037246.D	14 Jun 2025 03:32	RC/JU	Ok,M
25	Q2299-04MSD	BN037247.D	14 Jun 2025 04:08	RC/JU	Ok,M
26	Q2299-05	BN037248.D	14 Jun 2025 04:45	RC/JU	Ok
27	Q2299-06	BN037249.D	14 Jun 2025 05:21	RC/JU	Ok
28	Q2299-07	BN037250.D	14 Jun 2025 05:57	RC/JU	Ok
29	Q2299-08	BN037251.D	14 Jun 2025 06:33	RC/JU	Ok
30	Q2299-09	BN037252.D	14 Jun 2025 07:09	RC/JU	Ok
31	Q2299-10	BN037253.D	14 Jun 2025 07:46	RC/JU	Ok
32	Q2299-11	BN037254.D	14 Jun 2025 08:22	RC/JU	Ok
33	Q2299-12	BN037255.D	14 Jun 2025 08:58	RC/JU	Ok
34	Q2299-13	BN037256.D	14 Jun 2025 09:34	RC/JU	Dilution
35	SSTDCCC0.4	BN037257.D	14 Jun 2025 10:10	RC/JU	Ok
36	DFTPP	BN037258.D	14 Jun 2025 12:44	RC/JU	Ok
37	SSTDCCC0.4	BN037259.D	14 Jun 2025 13:23	RC/JU	Ok
38	PB168336BL	BN037260.D	14 Jun 2025 13:59	RC/JU	Ok
39	Q2299-14	BN037261.D	14 Jun 2025 14:35	RC/JU	Dilution
40	Q2299-15	BN037262.D	14 Jun 2025 15:11	RC/JU	Ok
41	Q2299-16	BN037263.D	14 Jun 2025 15:47	RC/JU	Ok
42	Q2299-17	BN037264.D	14 Jun 2025 16:23	RC/JU	Dilution
43	Q2299-18	BN037265.D	14 Jun 2025 17:00	RC/JU	Ok
44	Q2299-19	BN037266.D	14 Jun 2025 17:36	RC/JU	Ok

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN061325

Review By	anahy	Review On	6/16/2025 10:18:23 AM		
Supervise By	Jagrut	Supervise On	6/16/2025 10:18:34 AM		
SubDirectory	BN061325	HP Acquire Method	BNA_N, 8270_SIM	HP Processing Method	bn061325

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6781,SP6780,SP6779,SP6778,SP6777,SP6776,SP6775
CCC	SP6779
Internal Standard/PEM	SP6740,1ul/100ul sample
ICV/I.BLK	SP6768
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

45	Q2299-20	BN037267.D	14 Jun 2025 18:12	RC/JU	Ok
46	Q2299-21	BN037268.D	14 Jun 2025 18:48	RC/JU	Ok
47	Q2299-22	BN037269.D	14 Jun 2025 19:24	RC/JU	Ok
48	PB168458BS	BN037270.D	14 Jun 2025 20:00	RC/JU	Ok,M
49	SSTDCCC0.4	BN037271.D	14 Jun 2025 20:36	RC/JU	Ok
50	DFTPP	BN037272.D	14 Jun 2025 21:51	RC/JU	Ok
51	SSTDCCC0.4	BN037273.D	14 Jun 2025 22:31	RC/JU	Ok
52	PB168476BL	BN037274.D	14 Jun 2025 23:07	RC/JU	Ok
53	Q2314-04	BN037275.D	14 Jun 2025 23:43	RC/JU	Ok
54	Q2314-05	BN037276.D	15 Jun 2025 00:18	RC/JU	Ok
55	Q2314-06	BN037277.D	15 Jun 2025 00:54	RC/JU	Ok
56	Q2316-01	BN037278.D	15 Jun 2025 01:30	RC/JU	Ok
57	Q2316-02	BN037279.D	15 Jun 2025 02:06	RC/JU	Ok
58	PB168476BS	BN037280.D	15 Jun 2025 02:42	RC/JU	Ok,M
59	PB168476BSD	BN037281.D	15 Jun 2025 03:18	RC/JU	Ok,M
60	SSTDCCC0.4	BN037282.D	15 Jun 2025 03:54	RC/JU	Ok

M : Manual Integration

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Fax : 908 789 8922

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN061625

Review By	Rahul	Review On	6/17/2025 9:15:34 AM		
Supervise By	Jagrut	Supervise On	6/17/2025 9:20:17 AM		
SubDirectory	BN061625	HP Acquire Method	BNA_N, 8270_SIM	HP Processing Method	bn061325

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6781,SP6780,SP6779,SP6778,SP6777,SP6776,SP6775
CCC	SP6779
Internal Standard/PEM	SP6740,1ul/100ul sample
ICV/I.BLK	SP6768
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN037283.D	16 Jun 2025 09:44	RC/JU	Ok
2	SSTDCCC0.4	BN037284.D	16 Jun 2025 10:23 am	RC/JU	Ok
3	PB168391BL	BN037285.D	16 Jun 2025 11:03	RC/JU	Ok
4	Q2299-17DL	BN037286.D	16 Jun 2025 11:39	RC/JU	Ok
5	Q2299-13DL	BN037287.D	16 Jun 2025 12:15	RC/JU	Ok
6	Q2299-14DL	BN037288.D	16 Jun 2025 12:51	RC/JU	Ok
7	SSTDCCC0.4	BN037289.D	16 Jun 2025 13:53	RC/JU	Ok

M : Manual Integration

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Fax : 908 789 8922

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN061325

Review By	anahy	Review On	6/16/2025 10:18:23 AM	
Supervise By	Jagrut	Supervise On	6/16/2025 10:18:34 AM	
SubDirectory	BN061325	HP Acquire Method	BNA_N, 8270_HP Processing Method	bn061325

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6781,SP6780,SP6779,SP6778,SP6777,SP6776,SP6775
CCC	SP6779
Internal Standard/PEM	SP6740,1ul/100ul sample
ICV/I.BLK	SP6768
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN037223.D	13 Jun 2025 11:34		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN037224.D	13 Jun 2025 12:50	A Fresh Calibration is required.	RC/JU	Not Ok
3	SSTDICC0.1	SSTDICC0.1	BN037225.D	13 Jun 2025 13:33	Compound #02,03,20,24,34 remvoed from 0.1 PPM	RC/JU	Ok,M
4	SSTDICC0.2	SSTDICC0.2	BN037226.D	13 Jun 2025 14:10		RC/JU	Ok
5	SSTDICCC0.4	SSTDICCC0.4	BN037227.D	13 Jun 2025 14:46	Compound#20 Kept on QR	RC/JU	Ok
6	SSTDICC0.8	SSTDICC0.8	BN037228.D	13 Jun 2025 15:22		RC/JU	Ok
7	SSTDICC1.6	SSTDICC1.6	BN037229.D	13 Jun 2025 15:59		RC/JU	Ok
8	SSTDICC3.2	SSTDICC3.2	BN037230.D	13 Jun 2025 16:35		RC/JU	Ok
9	SSTDICC5.0	SSTDICC5.0	BN037231.D	13 Jun 2025 17:11		RC/JU	Ok
10	SSTDICV0.4	ICVBN061325	BN037232.D	13 Jun 2025 17:47		RC/JU	Ok
11	PB168391BL	PB168391BL	BN037233.D	13 Jun 2025 19:00		RC/JU	Ok
12	Q2275-01	OW-08B-72.5-060925	BN037234.D	13 Jun 2025 19:36		RC/JU	Ok
13	Q2275-03	EB01-060925	BN037235.D	13 Jun 2025 20:12		RC/JU	Ok
14	PB168391BS	PB168391BS	BN037236.D	13 Jun 2025 20:49		RC/JU	Ok,M
15	PB168391BSD	PB168391BSD	BN037237.D	13 Jun 2025 21:25		RC/JU	Ok,M
16	SSTDCCC0.4	SSTDCCC0.4EC	BN037238.D	13 Jun 2025 22:01		RC/JU	Ok
17	DFTPP	DFTPP	BN037239.D	13 Jun 2025 23:16		RC/JU	Ok

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN061325

Review By	anahy	Review On	6/16/2025 10:18:23 AM	
Supervise By	Jagrut	Supervise On	6/16/2025 10:18:34 AM	
SubDirectory	BN061325	HP Acquire Method	BNA_N, 8270_HP Processing Method	bn061325

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6781,SP6780,SP6779,SP6778,SP6777,SP6776,SP6775
CCC	SP6779
Internal Standard/PEM	SP6740,1ul/100ul sample
ICV/I.BLK	SP6768
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	SSTDCCC0.4	SSTDCCC0.4	BN037240.D	13 Jun 2025 23:55		RC/JU	Ok
19	PB168458BL	PB168458BL	BN037241.D	14 Jun 2025 00:31		RC/JU	Ok
20	Q2263-01	RW9-MW01D3-202506	BN037242.D	14 Jun 2025 01:08		RC/JU	Ok
21	Q2263-02	RW9-MW01S-2025060	BN037243.D	14 Jun 2025 01:44		RC/JU	Ok
22	Q2299-01	RE117D1-20250609	BN037244.D	14 Jun 2025 02:20		RC/JU	Ok
23	Q2299-02	RE117D2-20250609	BN037245.D	14 Jun 2025 02:56		RC/JU	Ok
24	Q2299-03MS	TT191D1-20250609MS	BN037246.D	14 Jun 2025 03:32		RC/JU	Ok,M
25	Q2299-04MSD	TT191D1-20250609MS	BN037247.D	14 Jun 2025 04:08		RC/JU	Ok,M
26	Q2299-05	TT191D1-20250609	BN037248.D	14 Jun 2025 04:45		RC/JU	Ok
27	Q2299-06	TT191D2-20250609	BN037249.D	14 Jun 2025 05:21		RC/JU	Ok
28	Q2299-07	RW10-MW01S-202506	BN037250.D	14 Jun 2025 05:57		RC/JU	Ok
29	Q2299-08	RW10-MW01D-202506	BN037251.D	14 Jun 2025 06:33		RC/JU	Ok
30	Q2299-09	RW10A-MW01S-20250	BN037252.D	14 Jun 2025 07:09		RC/JU	Ok
31	Q2299-10	RW10A-MW01I-202506	BN037253.D	14 Jun 2025 07:46		RC/JU	Ok
32	Q2299-11	TT158I1-20250610	BN037254.D	14 Jun 2025 08:22		RC/JU	Ok
33	Q2299-12	DUP01-20250610	BN037255.D	14 Jun 2025 08:58		RC/JU	Ok
34	Q2299-13	RE131D2-20250610	BN037256.D	14 Jun 2025 09:34	Need 5X Dilution	RC/JU	Dilution
35	SSTDCCC0.4	SSTDCCC0.4EC	BN037257.D	14 Jun 2025 10:10		RC/JU	Ok
36	DFTPP	DFTPP	BN037258.D	14 Jun 2025 12:44		RC/JU	Ok

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN061325

Review By	anahy	Review On	6/16/2025 10:18:23 AM	
Supervise By	Jagrut	Supervise On	6/16/2025 10:18:34 AM	
SubDirectory	BN061325	HP Acquire Method	BNA_N, 8270_HP Processing Method	bn061325

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6781,SP6780,SP6779,SP6778,SP6777,SP6776,SP6775
CCC	SP6779
Internal Standard/PEM	SP6740,1ul/100ul sample
ICV/I.BLK	SP6768
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

37	SSTDCCC0.4	SSTDCCC0.4	BN037259.D	14 Jun 2025 13:23		RC/JU	Ok
38	PB168336BL	PB168336BL	BN037260.D	14 Jun 2025 13:59		RC/JU	Ok
39	Q2299-14	DUP02-20250610	BN037261.D	14 Jun 2025 14:35	Need 5X Dilution	RC/JU	Dilution
40	Q2299-15	TT174I1-20250610	BN037262.D	14 Jun 2025 15:11		RC/JU	Ok
41	Q2299-16	RE134D4-20250610	BN037263.D	14 Jun 2025 15:47		RC/JU	Ok
42	Q2299-17	RE134D3-20250610	BN037264.D	14 Jun 2025 16:23	Need 2X Dilution	RC/JU	Dilution
43	Q2299-18	TT190D1-20250611	BN037265.D	14 Jun 2025 17:00		RC/JU	Ok
44	Q2299-19	RW11-MW01I-2025061	BN037266.D	14 Jun 2025 17:36		RC/JU	Ok
45	Q2299-20	RW11-MW01S-202506	BN037267.D	14 Jun 2025 18:12		RC/JU	Ok
46	Q2299-21	RE134D1-20250611	BN037268.D	14 Jun 2025 18:48		RC/JU	Ok
47	Q2299-22	TT190D2-20250611	BN037269.D	14 Jun 2025 19:24		RC/JU	Ok
48	PB168458BS	PB168458BS	BN037270.D	14 Jun 2025 20:00		RC/JU	Ok,M
49	SSTDCCC0.4	SSTDCCC0.4EC	BN037271.D	14 Jun 2025 20:36		RC/JU	Ok
50	DFTPP	DFTPP	BN037272.D	14 Jun 2025 21:51		RC/JU	Ok
51	SSTDCCC0.4	SSTDCCC0.4	BN037273.D	14 Jun 2025 22:31		RC/JU	Ok
52	PB168476BL	PB168476BL	BN037274.D	14 Jun 2025 23:07		RC/JU	Ok
53	Q2314-04	BP-VPB-182-GW-880-8	BN037275.D	14 Jun 2025 23:43		RC/JU	Ok
54	Q2314-05	BP-VPB-182-EB-20250	BN037276.D	15 Jun 2025 00:18		RC/JU	Ok
55	Q2314-06	VPB182-HYD-2025061	BN037277.D	15 Jun 2025 00:54	Surrogate fail	RC/JU	Ok

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN061325

Review By	anahy	Review On	6/16/2025 10:18:23 AM	
Supervise By	Jagrut	Supervise On	6/16/2025 10:18:34 AM	
SubDirectory	BN061325	HP Acquire Method	BNA_N, 8270_HP Processing Method	bn061325

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6781,SP6780,SP6779,SP6778,SP6777,SP6776,SP6775
CCC	SP6779
Internal Standard/PEM	SP6740,1ul/100ul sample
ICV/I.BLK	SP6768
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

56	Q2316-01	RW8-SP100-20250612	BN037278.D	15 Jun 2025 01:30		RC/JU	Ok
57	Q2316-02	RW8-SP303-20250612	BN037279.D	15 Jun 2025 02:06		RC/JU	Ok
58	PB168476BS	PB168476BS	BN037280.D	15 Jun 2025 02:42		RC/JU	Ok,M
59	PB168476BSD	PB168476BSD	BN037281.D	15 Jun 2025 03:18		RC/JU	Ok,M
60	SSTDCCC0.4	SSTDCCC0.4EC	BN037282.D	15 Jun 2025 03:54		RC/JU	Ok

M : Manual Integration

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN061625

Review By	Rahul	Review On	6/17/2025 9:15:34 AM	
Supervise By	Jagrut	Supervise On	6/17/2025 9:20:17 AM	
SubDirectory	BN061625	HP Acquire Method	BNA_N, 8270_HP Processing Method	bn061325

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6781,SP6780,SP6779,SP6778,SP6777,SP6776,SP6775
CCC	SP6779
Internal Standard/PEM	SP6740,1ul/100ul sample
ICV/I.BLK	SP6768
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN037283.D	16 Jun 2025 09:44		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN037284.D	16 Jun 2025 10:23 am		RC/JU	Ok
3	PB168391BL	PB168391BL	BN037285.D	16 Jun 2025 11:03		RC/JU	Ok
4	Q2299-17DL	RE134D3-20250610DL	BN037286.D	16 Jun 2025 11:39		RC/JU	Ok
5	Q2299-13DL	RE131D2-20250610DL	BN037287.D	16 Jun 2025 12:15		RC/JU	Ok
6	Q2299-14DL	DUP02-20250610DL	BN037288.D	16 Jun 2025 12:51		RC/JU	Ok
7	SSTDCCC0.4	SSTDCCC0.4EC	BN037289.D	16 Jun 2025 13:53		RC/JU	Ok

M : Manual Integration

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB168458

SOP ID: M3510C,3580A-Extraction SVOC-20

Clean Up SOP #: N/A

Matrix : Water

Weigh By: N/A

Balance check: N/A

Balance ID: N/A

pH Strip Lot#: E3880

Extraction By: RS

Filter By: RJ

pH Meter ID: N/A

Hood ID: 4,5,6,7

Extraction Start Date : 06/13/2025

Extraction Start Time : 08:03

Extraction End Date : 06/13/2025

Extraction End Time : 13:00

Concentration By: EH

Supervisor By : RUPESH

Extraction Method: [√] Seperatory Funnel [_] Continious Liquid/Liquid [_] Sonication [_] Waste Dilution [_] Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	0.4 PPM	SP6756
Surrogate	1.0ML	0.4 PPM	SP6758
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Methylene Chloride	N/A	E3939
Baked Na2SO4	N/A	EP2620
10N NaoH	N/A	EP2609
H2SO4 1:1	N/A	EP2610
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial lot# 2210443. pH Adjusted<2 with 1:1 H2SO4 &>11 with 10 N NaOH.

KD Bath ID: WATER BATH-1,2

KD Bath Temperature: 60 °C

Envap ID: NEVAP-02

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
06/13/25	RP (Set 1 of 5)	RC/SVOC
13:05	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB168458

Analytical Method: M3510C,3580A-Extraction SVOC-20 **Concentration Date:** 06/13/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB168458BL	SBLK458	SVOC-SIMGroup1	1000	6	RUPESH	rajesh	1			SEP-1
PB168458BS	SLCS458	SVOC-SIMGroup1	1000	6	RUPESH	rajesh	1			2
Q2299-01	RE117D1-20250609	SVOC-SIMGroup1	1000	6	RUPESH	rajesh	1	C		3
Q2299-02	RE117D2-20250609	SVOC-SIMGroup1	1000	6	RUPESH	rajesh	1	C		4
Q2299-03	Q2299-05MS	SVOC-SIMGroup1	1000	6	RUPESH	rajesh	1	C		5
Q2299-04	Q2299-05MSD	SVOC-SIMGroup1	1000	6	RUPESH	rajesh	1	C		6
Q2299-05	TT191D1-20250609	SVOC-SIMGroup1	1000	6	RUPESH	rajesh	1	C		7
Q2299-06	TT191D2-20250609	SVOC-SIMGroup1	1000	6	RUPESH	rajesh	1	C		8
Q2299-07	RW10-MW01S-20250609	SVOC-SIMGroup1	1000	6	RUPESH	rajesh	1	C		9
Q2299-08	RW10-MW01D-20250609	SVOC-SIMGroup1	1000	6	RUPESH	rajesh	1	C		10
Q2299-09	RW10A-MW01S-20250609	SVOC-SIMGroup1	970	6	RUPESH	rajesh	1	C		11
Q2299-10	RW10A-MW01I-20250609	SVOC-SIMGroup1	970	6	RUPESH	rajesh	1	C		12
Q2299-11	TT158I1-20250610	SVOC-SIMGroup1	1000	6	RUPESH	rajesh	1	C		13
Q2299-12	DUP01-20250610	SVOC-SIMGroup1	1000	6	RUPESH	rajesh	1	C		14
Q2299-13	RE131D2-20250610	SVOC-SIMGroup1	1000	6	RUPESH	rajesh	1	C		15
Q2299-14	DUP02-20250610	SVOC-SIMGroup1	1000	6	RUPESH	rajesh	1	C		16
Q2299-15	TT174I1-20250610	SVOC-SIMGroup1	1000	6	RUPESH	rajesh	1	C		SEP-01
Q2299-16	RE134D4-20250610	SVOC-SIMGroup1	1000	6	RUPESH	rajesh	1	C		2
Q2299-17	RE134D3-20250610	SVOC-SIMGroup1	1000	6	RUPESH	rajesh	1	C		3
Q2299-18	TT190D1-20250611	SVOC-SIMGroup1	1000	6	RUPESH	rajesh	1	C		4
Q2299-19	RW11-MW01I-20250611	SVOC-SIMGroup1	1000	6	RUPESH	rajesh	1	C		5
Q2299-20	RW11-MW01S-20250611	SVOC-SIMGroup1	1000	6	RUPESH	rajesh	1	C		6
Q2299-21	RE134D1-20250611	SVOC-SIMGroup1	960	6	RUPESH	rajesh	1	C		7
Q2299-22	TT190D2-20250611	SVOC-SIMGroup1	1000	6	RUPESH	rajesh	1	C		8

6/13/25

* **Extracts relinquished on the same date as received.**

1684 SD 8:03

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q2299 **WorkList ID :** 190171 **Department :** Extraction **Date :** 06-13-2025 07:57:13

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2299-01	RE117D1-20250609	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	06/09/2025	8270-Modified
Q2299-02	RE117D2-20250609	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	06/09/2025	8270-Modified
Q2299-03	Q2299-05MS	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	06/09/2025	8270-Modified
Q2299-04	Q2299-05MSD	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	06/09/2025	8270-Modified
Q2299-05	TT191D1-20250609	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	06/09/2025	8270-Modified
Q2299-06	TT191D2-20250609	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	06/09/2025	8270-Modified
Q2299-19	RW11-MW01I-20250611	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	06/11/2025	8270-Modified
Q2299-20	RW11-MW01S-20250611	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	06/11/2025	8270-Modified
Q2299-21	RE134D1-20250611	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	06/11/2025	8270-Modified
Q2299-22	TT190D2-20250611	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	06/11/2025	8270-Modified
Q2299-13	RE131D2-20250610	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	06/10/2025	8270-Modified
Q2299-14	DUP02-20250610	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	06/10/2025	8270-Modified
Q2299-15	TT174I1-20250610	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	06/10/2025	8270-Modified
Q2299-16	RE134D4-20250610	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	06/10/2025	8270-Modified
Q2299-17	RE134D3-20250610	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	06/10/2025	8270-Modified
Q2299-18	TT190D1-20250611	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	06/11/2025	8270-Modified
Q2299-07	RW10-MW01S-20250609	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	06/09/2025	8270-Modified
Q2299-08	RW10-MW01D-20250609	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	06/09/2025	8270-Modified
Q2299-09	RW10A-MW01S-20250609	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	06/09/2025	8270-Modified
Q2299-10	RW10A-MW01I-20250609	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	06/09/2025	8270-Modified
Q2299-11	TT158I1-20250610	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	06/10/2025	8270-Modified

Date/Time 6/13/25 8:00

Raw Sample Received by: RS (Ext-Labs)

Raw Sample Relinquished by: SM

Date/Time 6/13/25 8:45

Raw Sample Received by: SL

Raw Sample Relinquished by: RS (Ext-Labs)

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q2299 **WorkList ID :** 190171 **Department :** Extraction **Date :** 06-13-2025 07:57:13

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2299-12	DUP01-20250610	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	06/10/2025	8270-Modified

Date/Time 6/13/25 8:00

Raw Sample Received by: RS (BCL Lab)

Raw Sample Relinquished by: SM

Date/Time 6/13/25 8:45

Raw Sample Received by: SM

Raw Sample Relinquished by: RS (BCL Lab)

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Prep Standard - Chemical Standard Summary

Order ID : Q2299

Test : SVOC-SIMGroup1

Prepbatch ID : PB168458,

Sequence ID/Qc Batch ID: BN061325,BN061625,

Standard ID :
EP2609,EP2610,EP2620,SP6740,SP6756,SP6757,SP6758,SP6767,SP6768,SP6774,SP6775,SP6776,SP6777,SP6778,SP6779,SP6780,SP6781,

Chemical ID :
1ul/100ul sample,E3551,E3657,E3874,E3902,E3904,E3915,E3926,E3939,M6157,S10104,S11496,S11650,S11788,S11832,S12115,S12195,S12216,S12271,S12486,S12533,S12577,S12651,S12792,S12974,W3112,

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Extractions STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1874	10 N SODIUM HYDROXIDE SOLN	EP2609	05/07/2025	11/07/2025	RUPESHKUMAR SHAH	Extraction_SCALE_2 (EX-SC-2)	None	Riteshkumar Patel 05/07/2025

FROM 1000.00000ml of W3112 + 400.00000gram of E3657 = Final Quantity: 1000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
314	1.1 H2SO4 SOLN	EP2610	05/07/2025	11/07/2025	RUPESHKUMAR SHAH	Extraction_SCALE_2 (EX-SC-2)	None	Riteshkumar Patel 05/07/2025

FROM 1000.00000ml of M6157 + 1000.00000ml of W3112 = Final Quantity: 2000.000 ml

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Extractions STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3923	Baked Sodium Sulfate	EP2620	05/30/2025	07/01/2025	RUPESHKUMAR SHAH	Extraction_SCALE_2 (EX-SC-2)	None	Riteshkumar Patel 05/30/2025

FROM 4000.00000gram of E3551 = Final Quantity: 4000.000 gram

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3493	Internal Standard 0.4 PPM	SP6740	02/13/2025	07/30/2025	Rahul Chavli	None	None	Yogesh Patel 02/28/2025

FROM 0.10000ml of S12651 + 4.90000ml of E3874 = Final Quantity: 5.000 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
3492	8270-SIM-Spike 0.4 PPM	SP6756	03/24/2025	07/29/2025	Rahul Chavli	None	None	mohammad ahmed 04/07/2025

FROM 0.00160ml of S11650 + 0.02000ml of S11788 + 0.04000ml of S12486 + 0.04000ml of S12533 + 0.04000ml of S12974 + 99.85840ml of E3902 = Final Quantity: 100.000 ml

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

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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
3491	8270-SIM-Surrogate 0.4 PPM	SP6758	04/03/2025	07/24/2025	Rahul Chavli	None	None	mohammad ahmed 04/07/2025

FROM 0.00800ml of S12195 + 0.01600ml of S12216 + 0.04000ml of S11832 + 199.93600ml of E3915 = Final Quantity: 200.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3355	8270-SIM MDL-3.2PPM CALIBRATION STOCK SOL- 2ND SOURCE	SP6767	04/10/2025	07/24/2025	Jagrut Upadhyay	None	None	Sohil Jodhani 04/16/2025

FROM 0.00630ml of S12195 + 0.01280ml of S12216 + 0.03200ml of S11788 + 0.03200ml of S11832 + 0.06400ml of S12486 + 0.06400ml of S12533 + 0.06400ml of S12974 + 19.72490ml of E3926 = Final Quantity: 20.000 ml

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SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3356	8270-SIM MDL-0.4PPM CALIBRATION SOL ICV-2ND SOURCE	SP6768	04/10/2025	07/24/2025	Jagrut Upadhyay	None	None	Sohil Jodhani 04/16/2025

FROM 0.87500ml of E3926 + 0.01000ml of SP6740 + 0.12500ml of SP6767 = Final Quantity: 1.010 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3339	8270 sim calibration stock 10ppm (CPI)	SP6774	04/28/2025	06/21/2025	Jagrut Upadhyay	None	None	Rahul Chavli 05/16/2025

FROM 0.03350ml of S10104 + 0.05000ml of S11496 + 0.12500ml of S11832 + 0.12500ml of S12115 + 0.25000ml of S12271 + 0.25000ml of S12792 + 24.16650ml of E3926 = Final Quantity: 25.000 ml

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SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3361	8270-SIM MDL-5PPM CALIBRATION SOLUTION	SP6775	04/28/2025	06/21/2025	Jagrut Upadhyay	None	None	Rahul Chavli 05/16/2025

FROM 0.50000ml of E3926 + 0.01000ml of SP6740 + 0.50000ml of SP6774 = Final Quantity: 1.010 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3341	8270-SIM MDL-3.2PPM CALIBRATION SOLUTION	SP6776	04/28/2025	06/21/2025	Jagrut Upadhyay	None	None	Rahul Chavli 05/16/2025

FROM 0.68000ml of E3926 + 0.01000ml of SP6740 + 0.32000ml of SP6774 = 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
3344	8270-SIM MDL-1.6PPM CALIBRATION SOLUTION	SP6777	04/28/2025	06/21/2025	Jagrut Upadhyay	None	None	Rahul Chavli 05/16/2025

FROM 0.84000ml of E3926 + 0.01000ml of SP6740 + 0.16000ml of SP6774 = Final Quantity: 1.010 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3342	8270-SIM MDL-0.8PPM CALIBRATION SOLUTION	SP6778	04/28/2025	06/21/2025	Jagrut Upadhyay	None	None	Rahul Chavli 05/16/2025

FROM 0.92000ml of E3926 + 0.01000ml of SP6740 + 0.08000ml of SP6774 = 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
3343	8270-SIM MDL-0.4PPM CALIBRATION SOLUTION	SP6779	04/28/2025	06/21/2025	Jagrut Upadhyay	None	None	Rahul Chavli 05/16/2025

FROM 0.96000ml of E3926 + 0.01000ml of SP6740 + 0.04000ml of SP6774 = Final Quantity: 1.010 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3345	8270-SIM MDL-0.2PPM CALIBRATION SOLUTION	SP6780	04/28/2025	06/21/2025	Jagrut Upadhyay	None	None	Rahul Chavli 05/16/2025

FROM 0.50000ml of E3926 + 0.01000ml of SP6740 + 0.50000ml of SP6779 = 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
3346	8270-SIM MDL-0.1PPM CALIBRATION SOLUTION	SP6781	04/28/2025	06/21/2025	Jagrut Upadhyay	None	None	Rahul Chavli 05/16/2025

FROM 0.75000ml of E3926 + 0.01000ml of SP6740 + 0.25000ml of SP6779 = Final Quantity: 1.010 ml

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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 #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	313201	12/04/2025	01/03/2024 / Rajesh	07/20/2023 / Rajesh	E3551

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19510-5 / Sodium Hydroxide Pellets 2.5 Kg, Pk of 4	23B1556310	12/31/2025	12/04/2023 / Rajesh	12/01/2023 / Rajesh	E3657

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	25A0262002	07/30/2025	01/30/2025 / Rajesh	01/20/2025 / Rajesh	E3874

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H2762008	09/18/2025	03/18/2025 / RUPESH	02/12/2025 / RUPESH	E3902

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-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H2762008	09/26/2025	03/26/2025 / Rajesh	03/19/2025 / RUPESH	E3915

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	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-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	25A2862010	11/22/2025	05/22/2025 / RUPESH	02/28/2025 / RUPESH	E3939

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	24i1262013	11/07/2025	05/07/2025 / RUPESH	02/18/2025 / Mohan	M6157

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-112090-04 / CLP Acid Surrogate Solution, 7500 mg/L, 1ml	440246	07/30/2025	01/30/2025 / anahy	12/09/2021 / Christian	S10104

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555872 / Custom Standard, pentachlorophenol Std [CS 5328-5]	A0201728	07/29/2025	01/29/2025 / anahy	11/09/2023 / Yogesh	S11650

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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	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	33913 / SOM01.0 SIM Analysis Standard (Surrogate), 2000 PPM	A0201976	07/24/2025	01/24/2025 / anahy	11/21/2023 / rahul	S11832

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	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 #
CPI International	z-110381-01 / 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1ml	520963	10/28/2025	04/28/2025 / Jagrut	05/24/2024 / Rahul	S12271

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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	09/10/2025	03/10/2025 / anahy	07/23/2024 / RAHUL	S12486

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	09/10/2025	03/10/2025 / anahy	07/23/2024 / RAHUL	S12533

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	08/07/2025	02/07/2025 / anahy	09/20/2024 / anahy	S12651

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110816-01 / Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL, (Maximum Expiration: 180 Days)	414127	06/21/2025	04/28/2025 / Jagrut	05/24/2024 / Rahul	S12792

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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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112

CPI INTERNATIONAL

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. MEXICO
CP 64070
TEL +52 81 13 52 57 57
www.pqm.com.mx

CERTIFICATE OF ANALYSIS

PRODUCT :	SODIUM SULFATE CRYSTALS ANHYDROUS		
QUALITY :	ACS (CODE RMB3375)	FORMULA :	Na_2SO_4
SPECIFICATION NUMBER :	6399	RELEASE DATE:	ABR/21/2023
LOT NUMBER :	313201		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na_2SO_4)	Min. 99.0%	99.7 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.1
Insoluble matter	Max. 0.01%	0.005 %
Loss on ignition	Max. 0.5%	0.1 %
Chloride (Cl)	Max. 0.001%	<0.001 %
Nitrogen compounds (as N)	Max. 5 ppm	<5 ppm
Phosphate (PO_4)	Max. 0.001%	<0.001 %
Heavy metals (as Pb)	Max. 5 ppm	<5 ppm
Iron (Fe)	Max. 0.001%	<0.001 %
Calcium (Ca)	Max. 0.01%	0.002 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.003 %
Extraction-concentration suitability	Passes test	Passes test
Appearance	Passes test	Passes test
Identification	Passes test	Passes test
Solubility and foreing matter	Passes test	Passes test
Retained on US Standard No. 10 sieve	Max. 1%	0.1 %
Retained on US Standard No. 60 sieve	Min. 94%	97.3 %
Through US Standard No. 60 sieve	Max. 5%	2.5 %
Through US Standard No. 100 sieve	Max. 10%	0.1 %

COMMENTS

QC: PhC Irma Belmares

If you need further details, please call our factory or contact our local distributor.

RG-02-01, Ed. 3

Recd. by RP on 7/24/23 E3551

VWR®

Certificate of Analysis

Sodium Hydroxide (Pellets)

Material: 0583
Grade: ACS GRADE
Batch Number: 23B1556310

Chemical Formula: NaOH
Molecular Weight: 40
CAS #: 1310-73-2
Appearance:

Pellets

Manufacture Date: 12/14/2022
Expiration Date: 12/31/2025

Storage: Room Temperature

TEST	SPECIFICATION	ANALYSIS	DISPOSITION
Calcium	<= 0.005 %	<0.005 %	PASS
Chloride	<= 0.005 %	0.002 %	PASS
Heavy Metals	<= 0.002 %	<0.002 %	PASS
Iron	<= 0.001 %	<0.001 %	PASS
Magnesium	<= 0.002 %	<0.002 %	PASS
Mercury	<= 0.1 ppm	<0.1 ppm	PASS
Nickel	<= 0.001 %	<0.001 %	PASS
Nitrogen Compounds	<= 0.001 %	<0.001 %	PASS
Phosphate	<= 0.001 %	<0.001 %	PASS
Potassium	<= 0.02 %	<0.02 %	PASS
Purity	>= 97.0 %	99.2 %	PASS
Sodium Carbonate	<= 1.0 %	0.5 %	PASS
Sulfate	<= 0.003 %	<0.003 %	PASS

Internal ID #: 710

Signature

We certify that this batch conforms to the specifications listed.

This document has been electronically produced and is valid without a signature.

Leona Edwardson, Quality Control Sr. Manager - Solon
VWR Chemicals, LLC.
28600 Fountain Parkway, Solon OH 44139 USA

Additional Information

Analysis may have been rounded to significant digits in specification limits.

Product meets analytical specifications of the grades listed.

E 3657	E 3659
E 3654	E 3660

PO: PO2-1178.2 PRODUCT CODE: SHIP DATE: 1/20/2025

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor | J.T.Baker

Material No.: 9266-A4
Batch No.: 25A0262002
Manufactured Date: 2024-11-21
Expiration Date:2026-02-20
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	4
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	>= 99.8 %	99.9 %
Color (APHA)	<= 10	10
Residue after Evaporation	<= 1.0 ppm	0.8 ppm
Titrable Acid (µeq/g)	<= 0.3	<0.1
Chloride (Cl)	<= 10 ppm	<5 ppm
Water (by KF, coulometric)	<= 0.02 %	<0.01 %

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3874

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials,LLC
100 Matsonford Rd, Suite 200,Radnor,PA,19087.U.S.A.Phone 610.386.1700

Page 1 of 1

PO: PO2-798 PRODUCT CODE: SHIP DATE: 12/9/2024

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

E 3902

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials,LLC
100 Matsonford Rd, Suite 200,Radnor,PA,19087.U.S.A.Phone 610.386.1700

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™ | J.T.Baker

Material No.: 9254-03
Batch No.: 24H2762008
Manufactured Date: 2024-04-18
Expiration Date:2027-04-18
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ($(CH_3)_2CO$) (by GC, corrected forwater)	>= 99.4 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.0 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titrable Acid (µeq/g)	<= 0.3	0.2
Titrable Base (µeq/g)	<= 0.6	<0.1
Water (H_2O)	<= 0.5 %	<0.1 %
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Recd. by RS on 3/19/25

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E3915

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

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

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

E3939

J Croak
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
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Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

M615 MB

avantor™ | J.T.Baker

Material No.: 9673-33
Batch No.: 24I1262013
Manufactured Date: 2024-08-07
Retest Date:2029-08-06
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS – Assay (H_2SO_4)	95.0 – 98.0 %	96.2 %
Appearance	Passes Test	Passes Test
ACS – Color (APHA)	<= 10	5
ACS – Residue after Ignition	<= 3 ppm	<1 ppm
ACS – Substances Reducing Permanganate(as SO2)	<= 2 ppm	<2 ppm
Ammonium (NH_4)	<= 1 ppm	<1 ppm
Chloride (Cl)	<= 0.1 ppm	<0.1 ppm
Nitrate (NO_3)	<= 0.2 ppm	0.1 ppm
Phosphate (PO_4)	<= 0.5 ppm	<0.1 ppm
Trace Impurities – Aluminum (Al)	<= 30.0 ppb	<5.0 ppb
Arsenic & Antimony (as As)	<= 4.0 ppb	<2.0 ppb
Trace Impurities – Boron (B)	<= 10.0 ppb	<5.0 ppb
Trace Impurities – Cadmium (Cd)	<= 2.0 ppb	<1.0 ppb
Trace Impurities – Chromium (Cr)	<= 6.0 ppb	<1.0 ppb
Trace Impurities – Cobalt (Co)	<= 0.5 ppb	<0.3 ppb
Trace Impurities – Copper (Cu)	<= 1.0 ppb	<1.0 ppb
Trace Impurities – Gold (Au)	<= 10.0 ppb	<5.0 ppb
Heavy Metals (as Pb)	<= 500.0 ppb	<100.0 ppb
Trace Impurities – Iron (Fe)	<= 50.0 ppb	<1.0 ppb
Trace Impurities – Lead (Pb)	<= 0.5 ppb	<0.5 ppb
Trace Impurities – Magnesium (Mg)	<= 7.0 ppb	<1.0 ppb
Trace Impurities – Manganese (Mn)	<= 1.0 ppb	<1.0 ppb
Trace Impurities – Mercury (Hg)	<= 0.5 ppb	<0.1 ppb
Trace Impurities – Nickel (Ni)	<= 2.0 ppb	<0.3 ppb
Trace Impurities – Potassium (K)	<= 500.0 ppb	<10.0 ppb
Trace Impurities – Selenium (Se)	<= 50.0 ppb	7.2 ppb
Trace Impurities – Silicon (Si)	<= 100.0 ppb	12.8 ppb
Trace Impurities – Silver (Ag)	<= 1.0 ppb	<1.0 ppb

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

avantor™ | J.T.Baker

Material No.: 9673-33
Batch No.: 24I1262013

Test	Specification	Result
Trace Impurities - Sodium (Na)	<= 500.0 ppb	<5.0 ppb
Trace Impurities - Strontium (Sr)	<= 5.0 ppb	<1.0 ppb
Trace Impurities - Tin (Sn)	<= 5.0 ppb	1.1 ppb
Trace Impurities - Zinc (Zn)	<= 5.0 ppb	<1.0 ppb

For Laboratory,Research,or Manufacturing Use

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

J Croak

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

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Santa Rosa, CA 95403

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(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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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555872 **Lot No.:** A0201728

Description : Custom Pentachlorophenol Standard

Custom Pentachlorophenol Standard 25,000µg/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2026 **Storage:** 10°C or colder

Ship: Ambient

511649 ↓ 511658 Y.P. 11/13/23

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pentachlorophenol	87-86-5	RP230530RSR	99%	25,000.0 µg/mL	+/- 777.0837

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Josh McCloskey - Operations Technician I

Date Mixed: 05-Sep-2023 **Balance:** B251644995

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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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. : 31853 **Lot No.:** A0196453

Description : 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2028 **Storage:** 0°C or colder

Ship: Ambient

S11749 ↓ S11794 RC 11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBN3770	99%	2,013.0 µg/mL	+/- 25.0521

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant flow 1.8 mL/min.

Temp. Program:
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

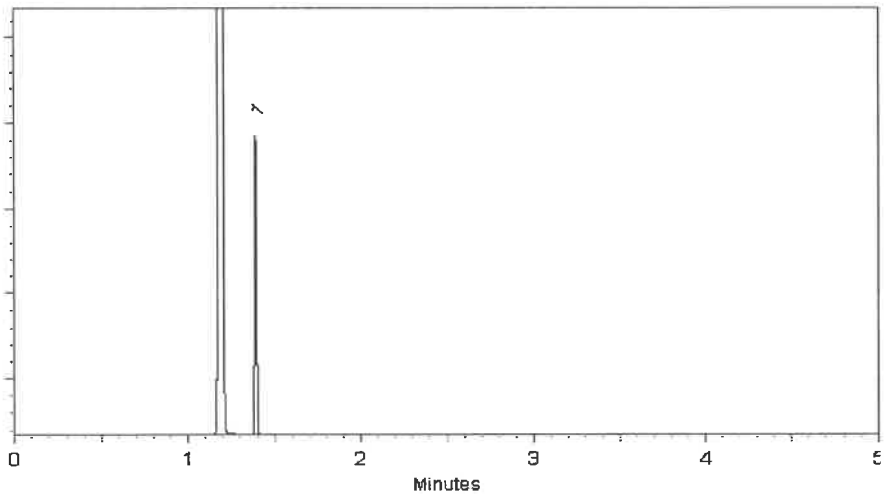
Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID

Split Vent:
100 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 31-Mar-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Certificate of Analysis

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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. : 33913 **Lot No.:** A0201976

Description : SOM01.0 SIM Analysis Standard

SOM01.0 SIM Analysis Standard 2000µg/mL, Methylene chloride, 1mL /ampul

S11828 ↓ S11832 RC/ 11/30/23

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2029 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Methylnaphthalene-d10	7297-45-2	EF-135	98%	2,015.9 µg/mL	+/- 90.8098
2	Fluoranthene-d10	93951-69-0	PR-32557	99%	2,020.0 µg/mL	+/- 90.9963

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

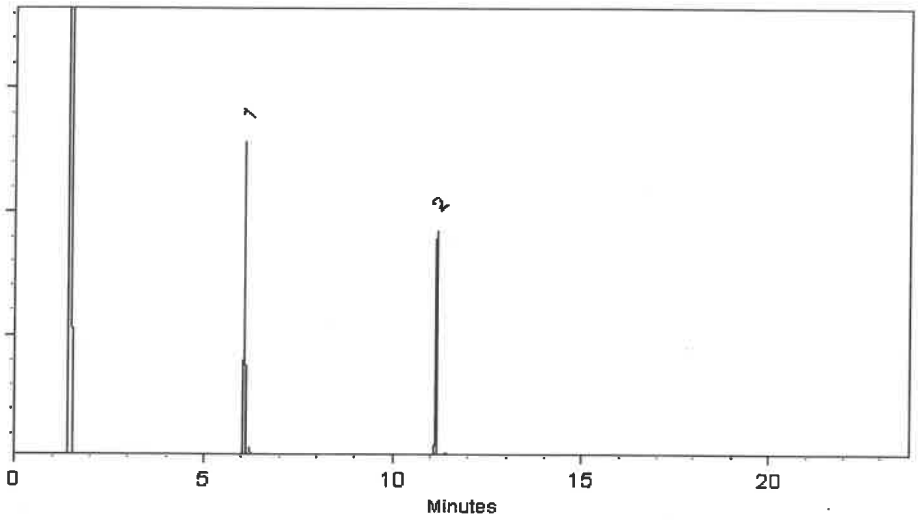
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



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.

Dakota Parson - Operations Technician I **Date Mixed:** 13-Sep-2023 **Balance Serial #** B442140311

Jennifer Pollino - Operations Tech III - ARM QC **Date Passed:** 28-Sep-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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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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CERTIFIED REFERENCE MATERIAL

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. : 31087 **Lot No.:** A0206206

S12187 ↓ S12206 } RC/ 03/18/24

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

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.)

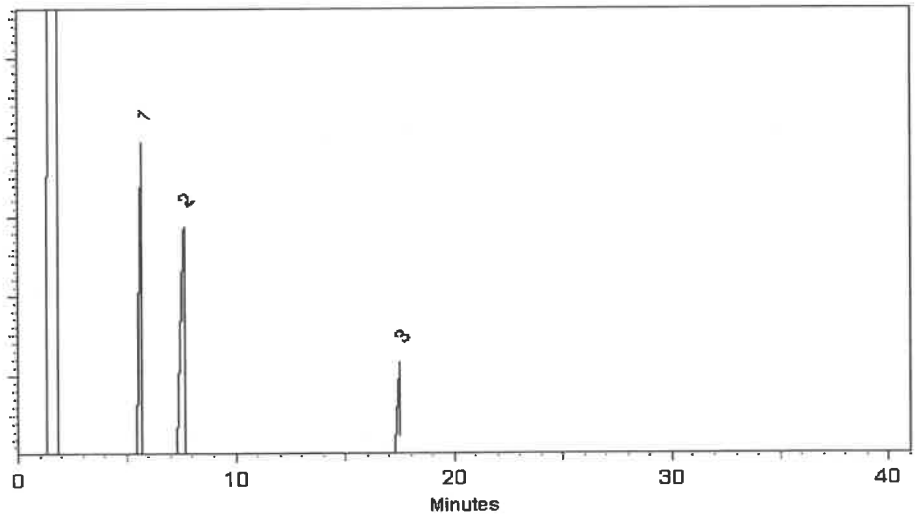
Inj. Temp:
250°C

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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Certificate #3222.01

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Testing Laboratory
Certificate #3222.02

Certificate of Analysis

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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. : 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.)

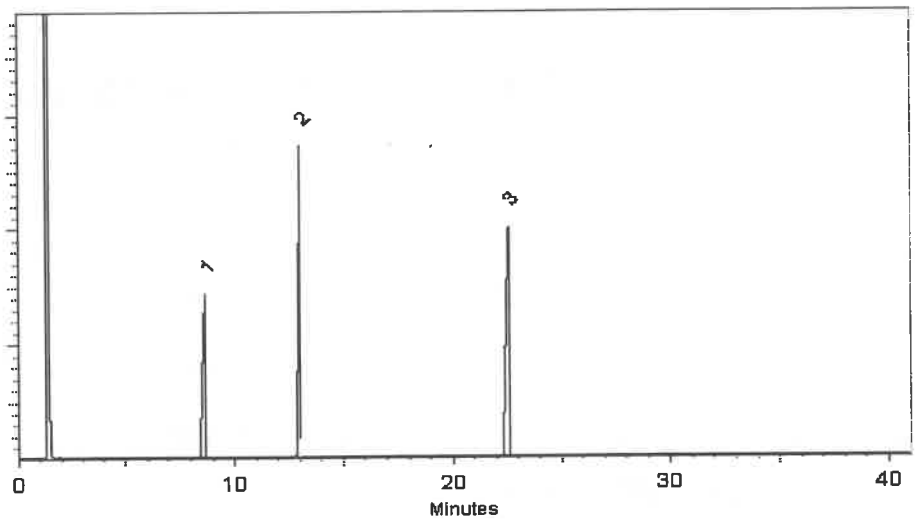
Inj. Temp:
250°C

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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Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110381-01	520963	≤ -10 °C	Methylene Chloride	10/10/2028	Method 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
acenaphthene	83-32-9	99.9	13.1.5P	1010 ± 9.89
acenaphthylene	208-96-8	97.6	14.290.1P	1014 ± 9.93
aniline	62-53-3	99.97	64.1.4P	1001 ± 9.8
anthracene	120-12-7	99.5	15.7.1P	999.6 ± 9.79
azobenzene	103-33-3	98.1	252.7.2P	999.1 ± 9.8
benzo[a]anthracene	56-55-3	100	16.7.3P	1007 ± 9.86
benzo[b]fluoranthene	205-99-2	99.8	17.421.3P	1011 ± 14.11
benzo[k]fluoranthene	207-08-9	98.9	18.421.4P	1001 ± 10.96
benzo[ghi]perylene	191-24-2	93	19.286.4P	999.6 ± 13.95
benzo[a]pyrene	50-32-8	97	20.286.2P	999.9 ± 22.24
benzyl alcohol	100-51-6	99.9	65.18.1P	1001 ± 9.82
bis(2-chloroethoxy)methane	111-91-1	99.1	31.3.15P	1000 ± 14.69
bis(2-chloroethyl)ether	111-44-4	99.8	32.7.1P	1003 ± 13.89
bis(2-chloro-1-methylethyl) ether	108-60-1	99.5	34.3.15P	999.4 ± 14.68
bis(2-ethylhexyl)adipate	103-23-1	99.5	874.7.1P	999.5 ± 9.8
bis(2-ethylhexyl)phthalate	117-81-7	99.4	33.29.1P	998.8 ± 17.03
4-bromophenyl phenyl ether	101-55-3	99.4	35.7.1.1P	1000 ± 13.85
butyl benzyl phthalate	85-68-7	98.4	36.1.6P	984.7 ± 16.79
carbazole	86-74-8	99.4	239.7.2P	1000 ± 9.8

S12270 ↓ S12274 } RC 05/24/24

*Not a certified value

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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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. : 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.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Certificate #3222.02

Certificate of Analysis

gravimetric

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ S12568 } RC/ 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- 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

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. : 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.)

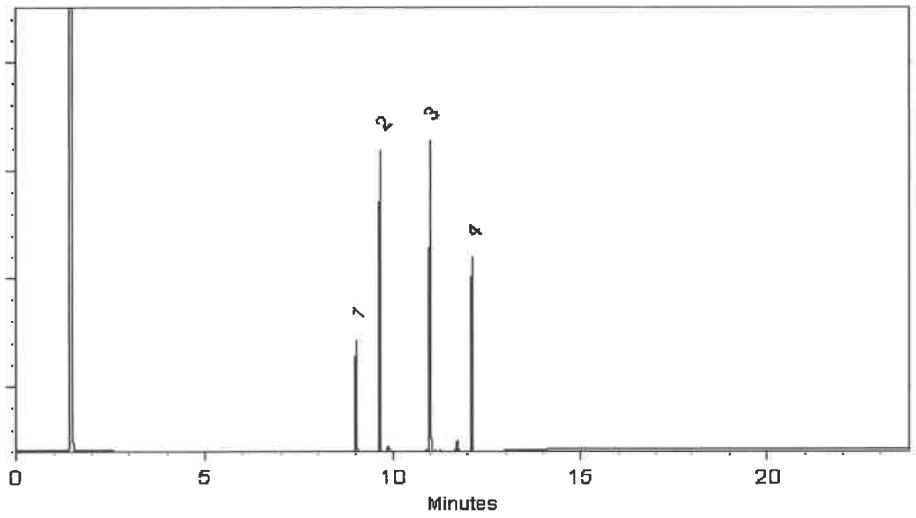
Inj. Temp:
250°C

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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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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Date Received:_____

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Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110816-01	414127	≤-10 °C	Methylene Chloride	6/21/2025	Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
atrazine	1912-24-9	99.5	337.7.3P	997 ± 5.81
benzidine	92-87-5	99.9	124.18.6.2P	991.8 ± 5.77
caprolactam	105-60-2	99.9	271.1.6P	999 ± 5.82

S12280 → S12284 RCI 05/24/24

New numbers Generated.

S12790 → S12794 RCI 11/12/24

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: _____
Shane Overcash
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

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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. : 31850 **Lot No.:** A0219438

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12963 ↓ S12992 AC 12/17/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,008.3 µg/mL	+/- 36.6849
2	N-Nitrosodimethylamine	62-75-9	S240313RSR	99%	1,008.6 µg/mL	+/- 36.6985
3	Phenol	108-95-2	MKCK1120	99%	1,003.5 µg/mL	+/- 36.5120
4	Aniline	62-53-3	X22F726	99%	1,002.9 µg/mL	+/- 36.4893
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,003.0 µg/mL	+/- 36.4938
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.6 µg/mL	+/- 36.5894
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.1 µg/mL	+/- 36.5348
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,002.1 µg/mL	+/- 36.4620
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,003.5 µg/mL	+/- 36.5120
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,005.3 µg/mL	+/- 36.5757
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,008.4 µg/mL	+/- 36.6894
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,004.6 µg/mL	+/- 36.5530
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.1 µg/mL	+/- 18.2697
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.8 µg/mL	+/- 18.3288
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,006.5 µg/mL	+/- 36.6212
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.5 µg/mL	+/- 36.5484
17	Nitrobenzene	98-95-3	10224044	99%	1,002.5 µg/mL	+/- 36.4757

18	Isophorone	78-59-1	MKCR3249	99%	1,003.4	µg/mL	+/- 36.5075
19	2-Nitrophenol	88-75-5	RP230710	99%	1,002.5	µg/mL	+/- 36.4757
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,006.5	µg/mL	+/- 36.6212
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,006.6	µg/mL	+/- 36.6257
22	2,4-Dichlorophenol	120-83-2	BCCK6969	99%	1,001.5	µg/mL	+/- 36.4393
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,006.4	µg/mL	+/- 36.6166
24	Naphthalene	91-20-3	STBL1057	99%	1,002.1	µg/mL	+/- 36.4620
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,004.4	µg/mL	+/- 36.5439
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,002.5	µg/mL	+/- 36.4771
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,004.5	µg/mL	+/- 36.5484
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,000.0	µg/mL	+/- 36.3847
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	µg/mL	+/- 36.0269
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,001.3	µg/mL	+/- 36.4325
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,006.4	µg/mL	+/- 36.6166
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.6	µg/mL	+/- 36.5505
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,004.3	µg/mL	+/- 36.5393
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.4	µg/mL	+/- 36.5439
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,002.8	µg/mL	+/- 36.4847
36	Acenaphthylene	208-96-8	RP241029RSR	98%	1,000.0	µg/mL	+/- 36.3835
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,006.3	µg/mL	+/- 36.6121
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,008.9	µg/mL	+/- 36.7076
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,006.6	µg/mL	+/- 36.6257
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,002.5	µg/mL	+/- 36.4757
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/- 36.3847
42	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,004.6	µg/mL	+/- 36.5530
43	2,4-Dinitrophenol	51-28-5	D240927RSR	----%	1,005.6	µg/mL	+/- 36.5894
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,003.5	µg/mL	+/- 36.5120
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,008.3	µg/mL	+/- 36.6849
46	4-Nitrophenol	100-02-7	20241029-2-AN	99%	1,004.8	µg/mL	+/- 36.5575
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,005.8	µg/mL	+/- 36.5939
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP231219RSR	99%	1,006.4	µg/mL	+/- 36.6166
49	Fluorene	86-73-7	10246250	98%	1,000.7	µg/mL	+/- 36.4102
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,004.9	µg/mL	+/- 36.5621
51	Diethylphthalate	84-66-2	BCCJ6241	99%	1,003.9	µg/mL	+/- 36.5257
52	4-Nitroaniline	100-01-6	RP230111	99%	1,006.6	µg/mL	+/- 36.6257
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	1,001.3	µg/mL	+/- 36.4302

54	Diphenylamine	122-39-4	MKCT1512	99%	1,003.0	µg/mL	+/- 36.4938
55	Azobenzene	103-33-3	BCCK0887	99%	1,002.4	µg/mL	+/- 36.4711
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,008.8	µg/mL	+/- 36.7031
57	Hexachlorobenzene	118-74-1	15458400	99%	1,005.1	µg/mL	+/- 36.5712
58	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,005.9	µg/mL	+/- 36.5984
59	Phenanthrene	85-01-8	MKCT3391	99%	1,004.9	µg/mL	+/- 36.5621
60	Anthracene	120-12-7	101492T18R	99%	1,005.1	µg/mL	+/- 36.5712
61	Carbazole	86-74-8	15276700	99%	1,005.4	µg/mL	+/- 36.5803
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,006.3	µg/mL	+/- 36.6121
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,003.5	µg/mL	+/- 36.5120
64	Pyrene	129-00-0	BCCK2592	99%	1,002.0	µg/mL	+/- 36.4575
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,007.5	µg/mL	+/- 36.6576
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.9	µg/mL	+/- 36.5984
67	Benz(a)anthracene	56-55-3	I70012022BAA	99%	1,005.5	µg/mL	+/- 36.5848
68	Chrysene	218-01-9	RP241007RSR	99%	1,005.3	µg/mL	+/- 36.5757
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,007.5	µg/mL	+/- 36.6576
70	Di-n-octyl phthalate	117-84-0	15566400	99%	1,002.3	µg/mL	+/- 36.4666
71	Benzo(b)fluoranthene	205-99-2	052013B	99%	1,004.1	µg/mL	+/- 36.5348
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,002.8	µg/mL	+/- 36.4847
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,006.2	µg/mL	+/- 36.6108
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,001.8	µg/mL	+/- 36.4490
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,003.3	µg/mL	+/- 36.5029
76	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,003.8	µg/mL	+/- 36.5217

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.

SHIPPING DOCUMENTS

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

ALLIANCE PROJECT NO.
QUOTE NO. Q2299
COC Number 2046494

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Resolution Consultants
ADDRESS:
CITY STATE: ZIP:
ATTENTION: Eleanor Vivadou
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: NWIRP BETHPAGE
PROJECT NO.: 60731872 LOCATION: BETHPAGE
PROJECT MANAGER: Eleanor Vivadou
e-mail: Eleanor.Vivadou@AECOM.com
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: Eleanor V. PO#:
ADDRESS: 27 Ellis place
CITY OSSINING STATE: NY ZIP: 10562
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) DAYS*
HARDCOPY (DATA PACKAGE): Standard DAYS*
EDD: Standard DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only)
- ☐ Level 2 (Results + QC)
- ☐ Level 3 (Results + QC + Raw Data)
- ☐ Level 4 (QC + Full Raw Data)
- ☐ NJ Reduced ☐ US EPA CLP
- ☐ NYS ASP A ☐ NYS ASP B
- ☐ Other
- ☐ EDD FORMAT

ANALYSIS

1. VOCs 8260
2. 1,4-dioxane 8270SIM
3.
4.
5.
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
								A	F								← Specify Preservatives A-HCl D-NaOH B-HN03 E-ICE C-H2SO4 F-OTHER
1.	RE117D1-20250609	GW		X	06/09/25	1130	3	2	1								
2.	RE117D2-20250609	GW		X		1150	3	2	1								
3.	TT191D1-20250609	GW		X		1400	9	6	3								Additional vol for MS/MSD collected
4.	TT191D2-20250609	GW		X		1515	3	2	1								
5.	RW10-MW01S-20250609	GW		X		1000	3	2	1								
6.	RW10-MW01D-20250609	GW		X		1010	3	2	1								
7.	RW10A-MW01S-20250609	GW		X		1240	3	2	1								
8.	RW10A-MW01I-20250609	GW		X	↓	1320	3	2	1								
9.	TT158I1-20250610	GW		X	06/10/25	1000	3	2	1								
10.	DUP01-20250610	GW		X	↓	1005	3	2	1								

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1. Momo Achek	1440 6-11-2025	1.
2.		2.
3.	1745 6-11-2025	3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☒ COOLER TEMP 2.8 °C
Comments:

Page 1 of 2

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete ☐ YES ☐ NO

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Alliance TECHNICAL GROUP

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www.chemtech.net

ALLIANCE PROJECT NO. Q2299
QUOTE NO.
COC Number 2046495

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Resolution Consultants
ADDRESS:
CITY STATE: ZIP:
ATTENTION: Eleanor vivadou
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: NWIRP BETHPAGE
PROJECT NO.: 60731872 LOCATION: BETHPAGE
PROJECT MANAGER: Eleanor Vivadou
e-mail: Eleanor.vivadou@aecom.com
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: Eleanor V. PO#:
ADDRESS: 27 Ellis Place
CITY OSSINING STATE: NY ZIP: 10563
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): Standard DAYS*
EDD: Standard DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

- ❑ Level 1 (Results Only)
- ❑ Level 2 (Results + QC)
- ❑ Level 3 (Results + QC + Raw Data)
- ❑ EDD FORMAT
- ❑ Level 4 (QC + Full Raw Data)
- ❑ NJ Reduced ❑ US EPA CLP
- ❑ NYS ASP A ❑ NYS ASP B
- ❑ Other

ANALYSIS

1 vocs 8260
2 1,4dioxane 8270sim
3
4
5
6
7
8
9

PRESERVATIVES

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	A 1	F 2	3	4	5	6	7	8	9	COMMENTS ← Specify Preservatives A-HCl D-NaOH B-HN03 E-ICE C-H2SO4 F-OTHER
1.	RE131D2-20250610	GW		X	06/10/25	1150	3	2	1								
2.	DUP02-20250610	GW		X	06/10/25	1155	3	2	1								
3.	TT174I1-20250610	GW		X	06/10/25	1020	3	2	1								
4.	RE134D4-20250610	GW		X	06/10/25	1000	3	2	1								
5.	RE134D3-20250610	GW		X	06/10/25	1140	3	2	1								
6.	TT190D1-20250611	GW		X	06/11/25	1135	3	2	1								
7.	RW11-MW01I-20250611	GW		X		0930	3	2	1								
8.	RW11-MW01S-20250611	GW		X		0935	3	2	1								
9.	RE134D1-20250611	GW		X		0950	3	2	1								
10.	TT190D2-20250611	GW		X		1135	3	2	1								

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1. Mamo Achek	1440 6-11-2025	1. [signature]
2.		2.
3. [signature]	1745 6-11-2025	3. [signature]

Conditions of bottles or coolers at receipt: ❑ COMPLIANT ❑ NON COMPLIANT ☒ COOLER TEMP 2.8°C °C
Comments:

Page 2 of 2

CLIENT: ❑ Hand Delivered ❑ Other

Shipment Complete ❑ YES ❑ NO

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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 : Q2299 AECO15
Client Name : AECOM Technical Service
Client Contact : Eleanor Vivadou
Invoice Name : AECOM Technical Service
Invoice Contact : Eleanor Vivadou

Order Date : 6/12/2025 12:06:00 PM
Project Name : NAVFAC NWIRP Bethpag
Receive DateTime : 6/11/2025 5:45:00 PM
Purchase Order :

Project Mgr :
Report Type : ~~Results Only~~ NYS ASP B
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
Q2299-01	RE117D1-20250609	Water	06/09/2025	11:30					
					VOCMS Group1		8260-Low		10 Bus. Days
Q2299-02	RE117D2-20250609	Water	06/09/2025	11:50					
					VOCMS Group1		8260-Low		10 Bus. Days
Q2299-03	Q2299-~~02~~05MS	Water	06/09/2025	14:00 ~~11:50~~					
					VOCMS Group1		8260-Low		10 Bus. Days
Q2299-04	Q2299-~~02~~5MSD	Water	06/09/2025	14:00 ~~11:50~~					
					VOCMS Group1		8260-Low		10 Bus. Days
Q2299-05	TT191D1-20250609	Water	06/09/2025	14:00					
					VOCMS Group1		8260-Low		10 Bus. Days
Q2299-06	TT191D2-20250609	Water	06/09/2025	15:15					
					VOCMS Group1		8260-Low		10 Bus. Days
Q2299-07	RW10-MW01S-20250609	Water	06/09/2025	10:00					
					VOCMS Group1		8260-Low		10 Bus. Days
Q2299-08	RW10-MW01D-20250609	Water	06/09/2025	10:10					

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

LOGIN REPORT/SAMPLE TRANSFER

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Client Name : AECOM Technical Service
Client Contact : Eleanor Vivadou
Invoice Name : AECOM Technical Service
Invoice Contact : Eleanor Vivadou

Order Date : 6/12/2025 12:06:00 PM
Project Name : NAVFAC NWIRP Bethpag
Receive DateTime : 6/11/2025 5:45:00 PM
Purchase Order :

Project Mgr :
Report Type : ~~Results Only~~ NYS ASP B
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
					VOCMS Group1		8260-Low		10 Bus. Days
Q2299-09	RW10A-MW01S-20250609	Water	06/09/2025	12:40					
					VOCMS Group1		8260-Low		10 Bus. Days
Q2299-10	RW10A-MW01I-20250609	Water	06/09/2025	13:20					
					VOCMS Group1		8260-Low		10 Bus. Days
Q2299-11	TT158I1-20250610	Water	06/09/2025	10:00					
					VOCMS Group1		8260-Low		10 Bus. Days
Q2299-12	DUP01-20250610	Water	06/10/2025	10:05					
					VOCMS Group1		8260-Low		10 Bus. Days
Q2299-13	RE131D2-20250610	Water	06/10/2025	11:50					
					VOCMS Group1		8260-Low		10 Bus. Days
Q2299-14	DUP02-20250610	Water	06/10/2025	11:55					
					VOCMS Group1		8260-Low		10 Bus. Days
Q2299-15	TT174I1-20250610	Water	06/10/2025	10:20					
					VOCMS Group1		8260-Low		10 Bus. Days

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2299 AECO15
Client Name : AECOM Technical Service
Client Contact : Eleanor Vivadou
Invoice Name : AECOM Technical Service
Invoice Contact : Eleanor Vivadou

Order Date : 6/12/2025 12:06:00 PM
Project Name : NAVFAC NWIRP Bethpag
Receive DateTime : 6/11/2025 5:45:00 PM
Purchase Order :

Project Mgr :
Report Type : ~~Results Only~~ NYS ASP B
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
Q2299-16	RE134D4-20250610	Water	06/10/2025	10:00					
					VOCMS Group1		8260-Low		10 Bus. Days
Q2299-17	RE134D3-20250610	Water	06/10/2025	11:40					
					VOCMS Group1		8260-Low		10 Bus. Days
Q2299-18	TT190D1-20250611	Water	06/10/2025	11:35					
					VOCMS Group1		8260-Low		10 Bus. Days
Q2299-19	RW11-MW01I-20250611	Water	06/11/2025	09:30					
					VOCMS Group1		8260-Low		10 Bus. Days
Q2299-20	RW11-MW01S-20250611	Water	06/11/2025	09:35					
					VOCMS Group1		8260-Low		10 Bus. Days
Q2299-21	RE134D1-20250611	Water	06/11/2025	09:50					
					VOCMS Group1		8260-Low		10 Bus. Days
Q2299-22	TT190D2-20250611	Water	06/11/2025	11:35					
					VOCMS Group1		8260-Low		10 Bus. Days
~~Q2299-23~~	~~CANCEL~~	Water	06/11/2025	00:00					

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2299 AECO15
Client Name : AECOM Technical Service
Client Contact : Eleanor Vivadou
Invoice Name : AECOM Technical Service
Invoice Contact : Eleanor Vivadou

Order Date : 6/12/2025 12:06:00 PM
Project Name : NAVFAC NWIRP Bethpage
Receive DateTime : 6/11/2025 5:45:00 PM
Purchase Order :

Project Mgr :
Report Type : ~~Results Only~~ NYS ASP B
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
					~~VOCMS Group1~~		8260-Low	~~10 Bus. Days~~	

Relinguished By :
Date / Time : 6/12/25 1255

Received By :
Date / Time : 06/12/25 12:55
Storage Area : VOA Refridgerator Room

Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037225.D
Acq On : 13 Jun 2025 13:33
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Quant Time: Jun 13 18:36:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:34:15 2025
Response via : Initial Calibration

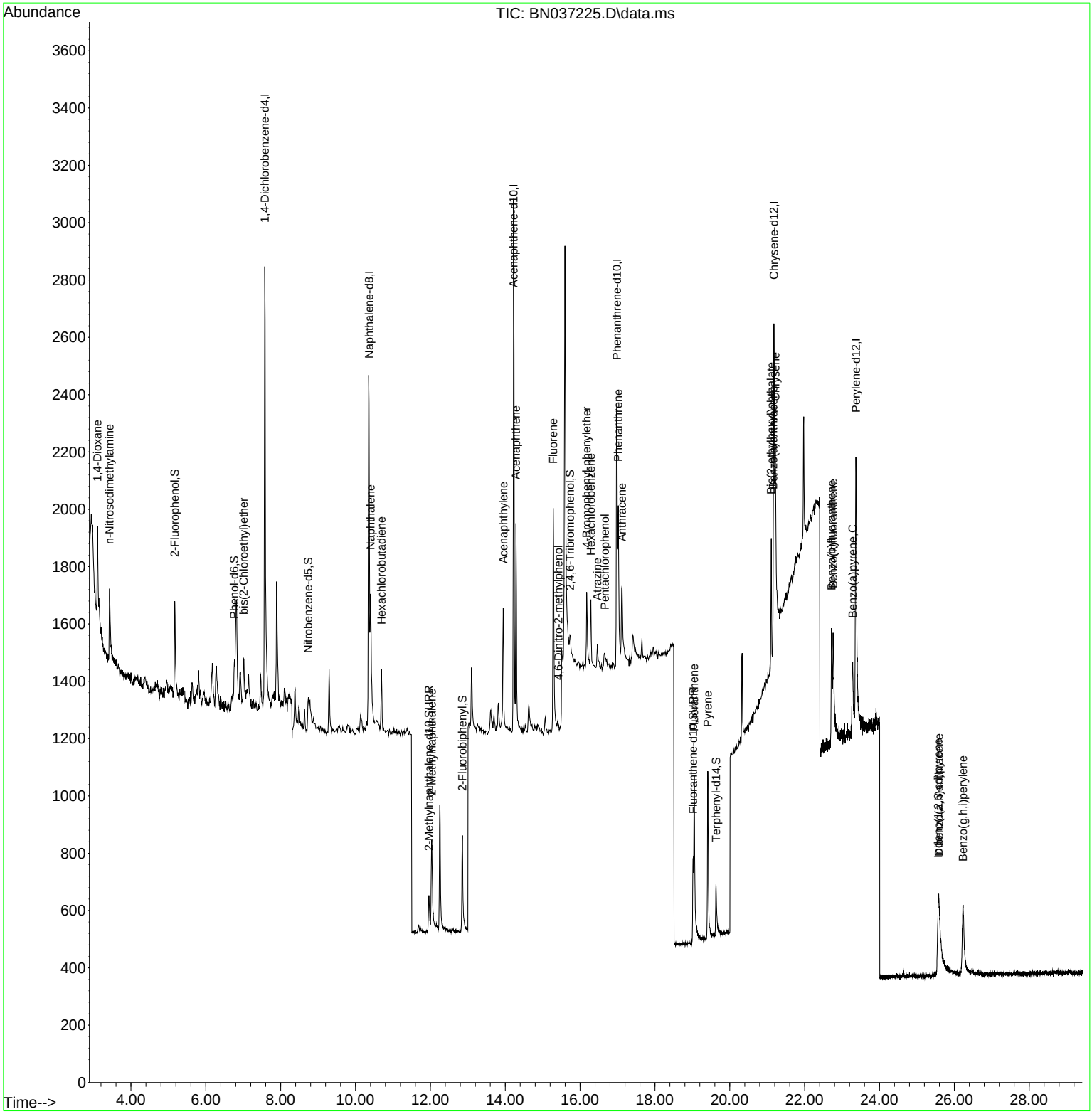
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	859	0.400	ng	0.00
7) Naphthalene-d8	10.362	136	2097	0.400	ng	# 0.00
13) Acenaphthene-d10	14.224	164	1114	0.400	ng	0.00
19) Phenanthrene-d10	16.984	188	1916	0.400	ng	0.01
29) Chrysene-d12	21.180	240	1546	0.400	ng	# 0.00
35) Perylene-d12	23.368	264	1617	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.170	112	224	0.106	ng	0.00
5) Phenol-d6	6.759	99	188	0.085	ng	0.00
8) Nitrobenzene-d5	8.739	82	192	0.093	ng	0.01
11) 2-Methylnaphthalene-d10	11.960	152	260	0.092	ng	0.00
14) 2,4,6-Tribromophenol	15.730	330	35	0.076	ng	0.00
15) 2-Fluorobiphenyl	12.853	172	436	0.093	ng	0.00
27) Fluoranthene-d10	19.021	212	486	0.097	ng	0.00
31) Terphenyl-d14	19.635	244	315	0.090	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.104	88	145	0.123	ng	# 54
3) n-Nitrosodimethylamine	3.429	42	293	0.109	ng	# 97
6) bis(2-Chloroethyl)ether	7.012	93	165	0.083	ng	85
9) Naphthalene	10.404	128	622	0.102	ng	# 77
10) Hexachlorobutadiene	10.693	225	157	0.106	ng	# 95
12) 2-Methylnaphthalene	12.036	142	331	0.090	ng	# 93
16) Acenaphthylene	13.946	152	531	0.097	ng	95
17) Acenaphthene	14.288	154	346	0.098	ng	96
18) Fluorene	15.282	166	430	0.095	ng	100
20) 4,6-Dinitro-2-methylph...	15.421	198	15	0.146	ng	# 26
21) 4-Bromophenyl-phenylether	16.177	248	119	0.095	ng	91
22) Hexachlorobenzene	16.289	284	164	0.113	ng	96
23) Atrazine	16.462	200	107	0.096	ng	# 63
24) Pentachlorophenol	16.661	266	52	0.073	ng	# 82
25) Phenanthrene	17.021	178	600	0.099	ng	100
26) Anthracene	17.120	178	524	0.094	ng	100
28) Fluoranthene	19.049	202	704	0.099	ng	99
30) Pyrene	19.412	202	715	0.098	ng	99
32) Benzo(a)anthracene	21.162	228	454	0.087	ng	# 79
33) Chrysene	21.215	228	689	0.106	ng	# 85
34) Bis(2-ethylhexyl)phtha...	21.108	149	432	0.111	ng	# 96
36) Indeno(1,2,3-cd)pyrene	25.570	276	609	0.093	ng	# 74
37) Benzo(b)fluoranthene	22.719	252	529	0.089	ng	# 41
38) Benzo(k)fluoranthene	22.760	252	488	0.072	ng	# 40
39) Benzo(a)pyrene	23.284	252	514	0.097	ng	# 23
40) Dibenzo(a,h)anthracene	25.590	278	313	0.064	ng	# 13
41) Benzo(g,h,i)perylene	26.228	276	608	0.101	ng	# 64

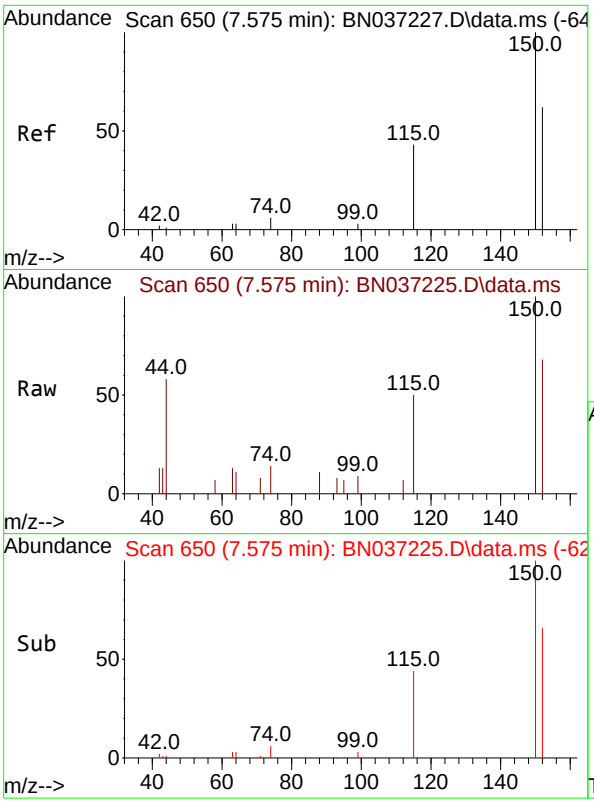
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037225.D
Acq On : 13 Jun 2025 13:33
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Quant Time: Jun 13 18:36:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:34:15 2025
Response via : Initial Calibration



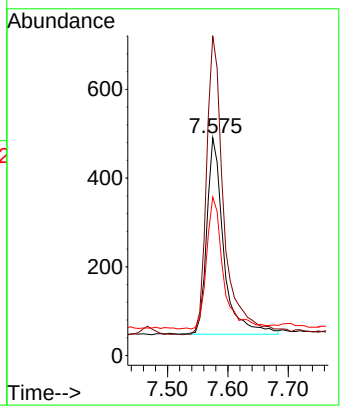


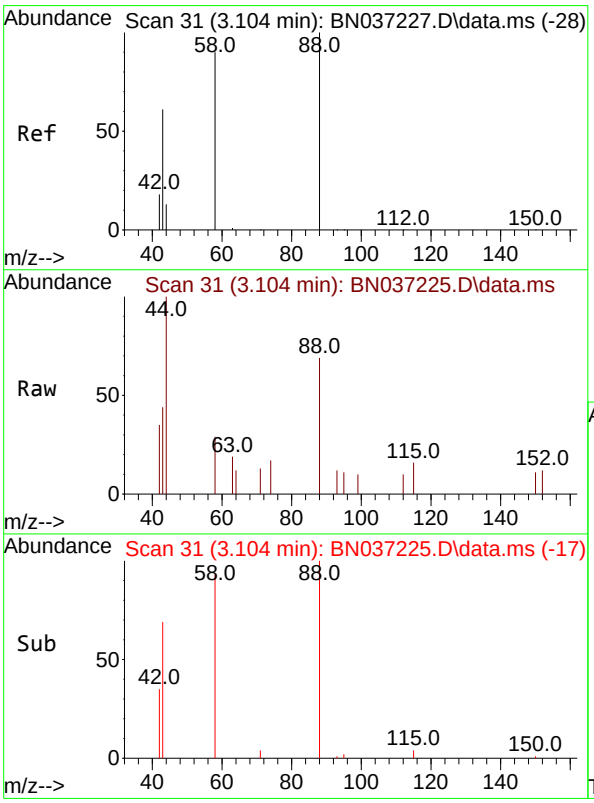
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:152 Resp: 859

Ion	Ratio	Lower	Upper
152	100		
150	146.8	125.2	187.8
115	72.7	58.4	87.6

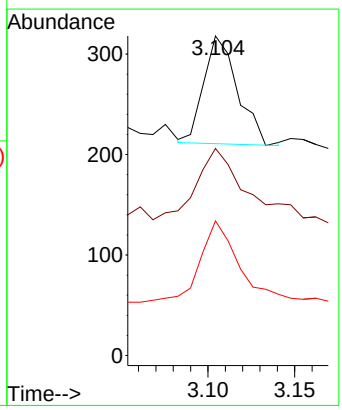


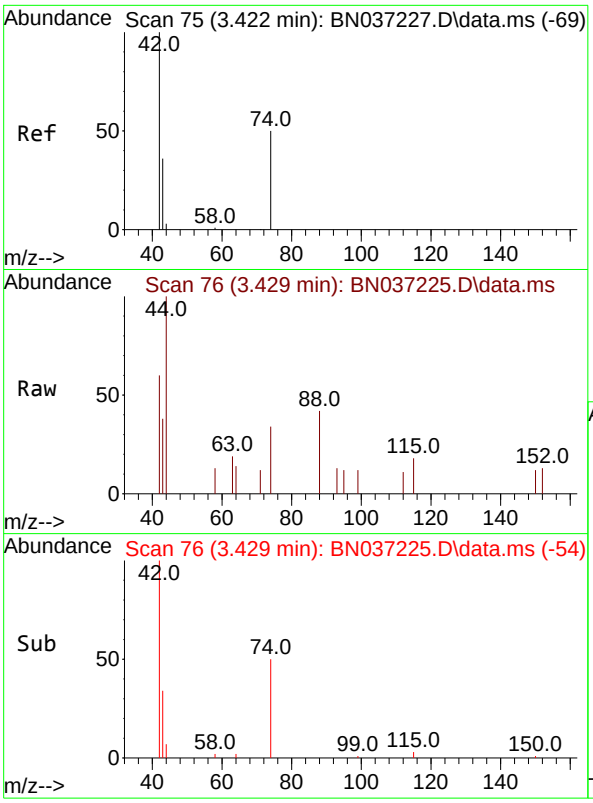


#2
1,4-Dioxane
Concen: 0.123 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion: 88 Resp: 145

Ion	Ratio	Lower	Upper
88	100		
43	144.8	52.6	79.0#
58	84.8	73.5	110.3



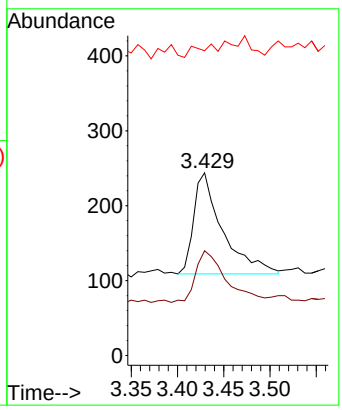


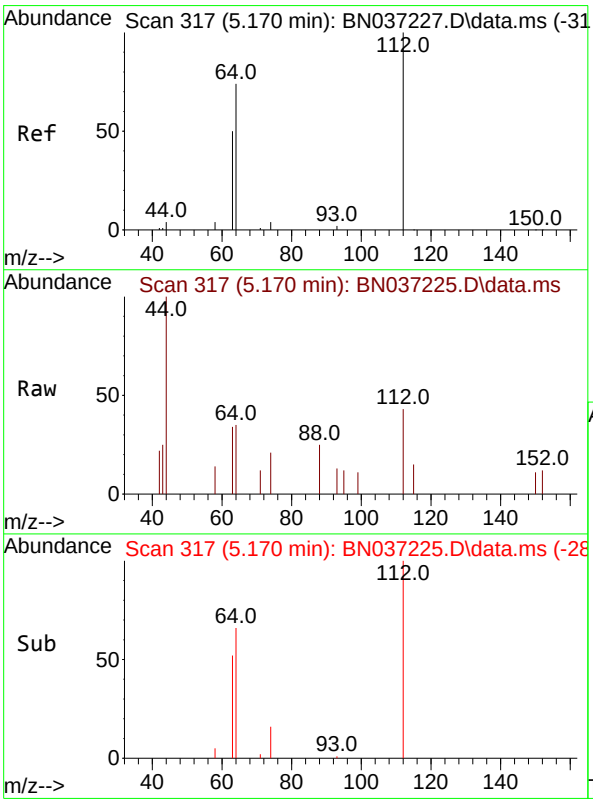
#3
n-Nitrosodimethylamine
Concen: 0.109 ng
RT: 3.429 min Scan# 7
Delta R.T. 0.007 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion: 42 Resp: 293

Ion	Ratio	Lower	Upper
42	100		
74	53.6	44.6	66.8
44	5.5	3.5	5.3#

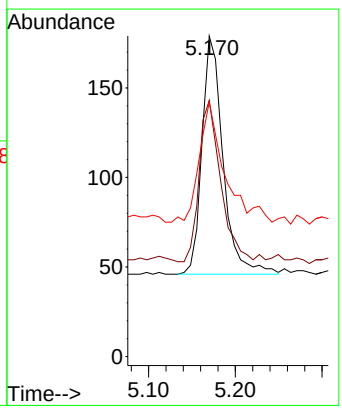


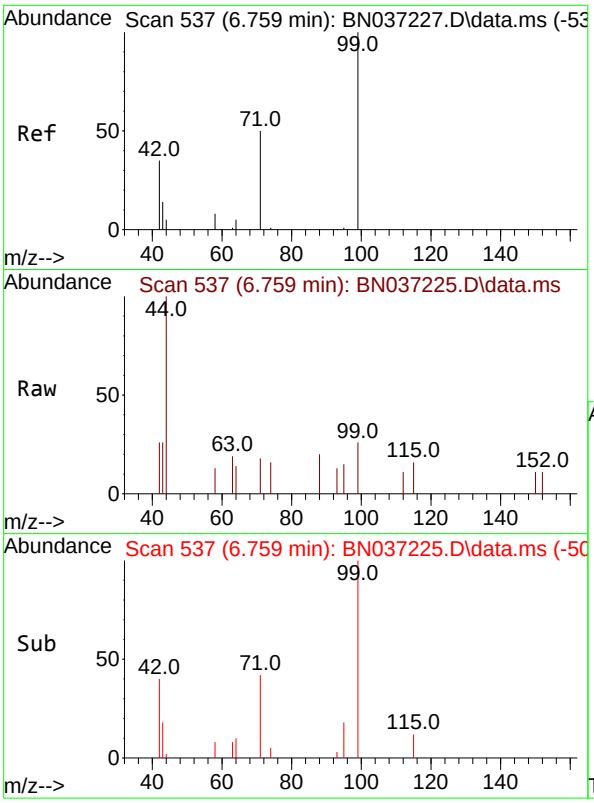


#4
2-Fluorophenol
Concen: 0.106 ng
RT: 5.170 min Scan# 317
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion:112 Resp: 224

Ion	Ratio	Lower	Upper
112	100		
64	69.2	57.2	85.8
63	65.6	39.8	59.6#



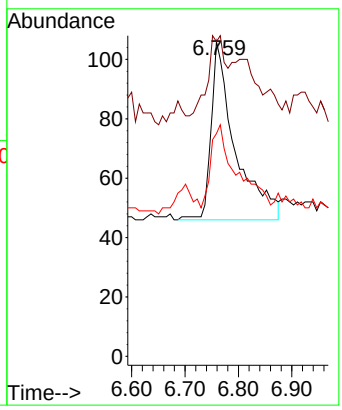


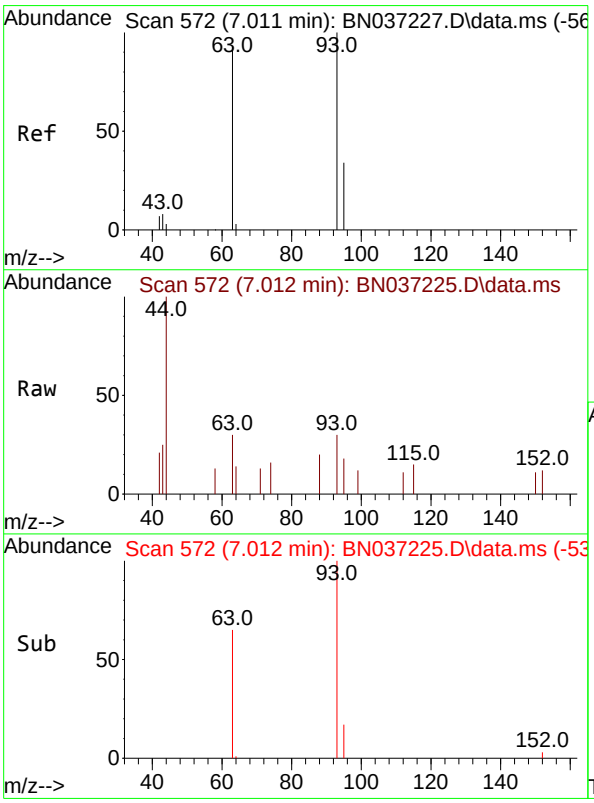
#5
Phenol-d6
Concen: 0.085 ng
RT: 6.759 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion: 99 Resp: 188

Ion	Ratio	Lower	Upper
99	100		
42	33.0	36.2	54.4#
71	51.1	42.4	63.6

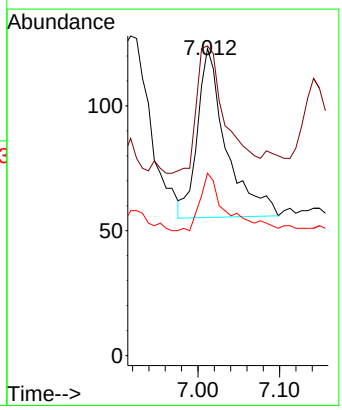


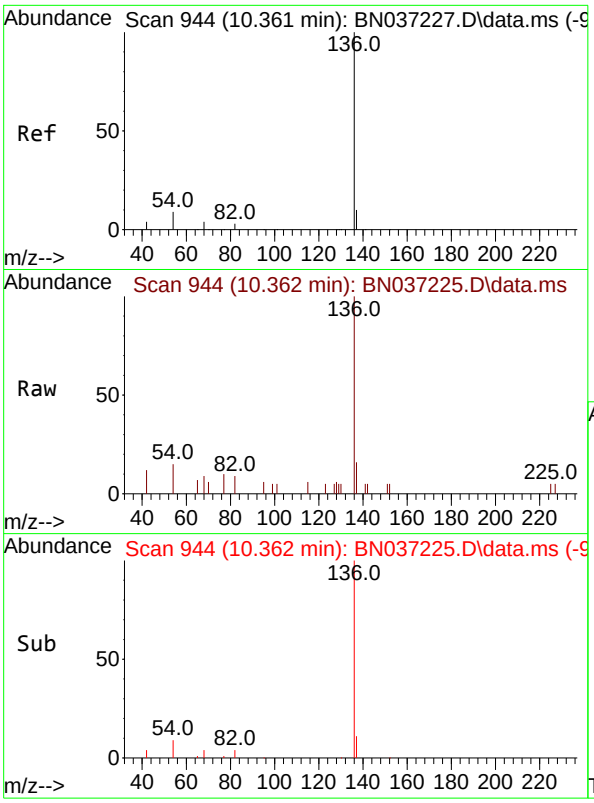


#6
bis(2-Chloroethyl)ether
Concen: 0.083 ng
RT: 7.012 min Scan# 572
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion: 93 Resp: 165

Ion	Ratio	Lower	Upper
93	100		
63	76.4	75.2	112.8
95	30.9	28.3	42.5



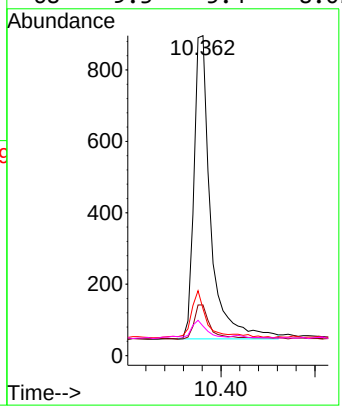


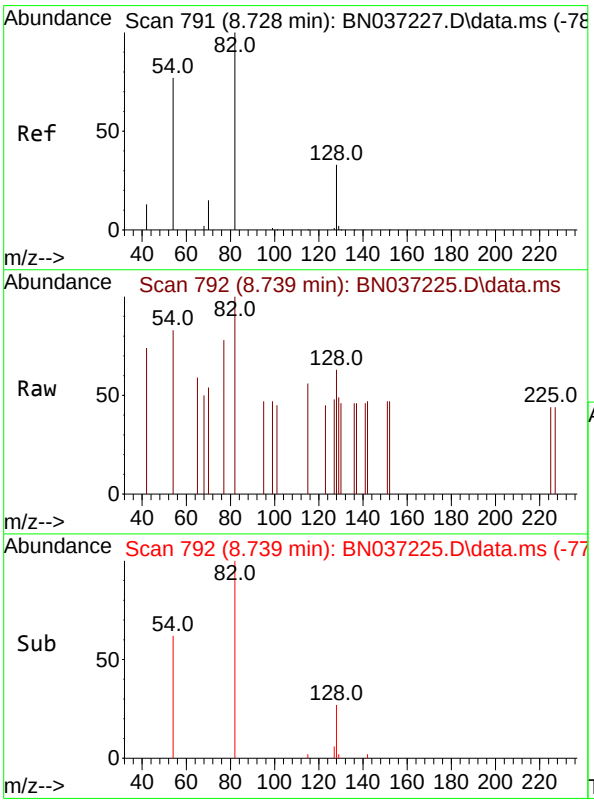
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.362 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:136 Resp: 2097

Ion	Ratio	Lower	Upper
136	100		
137	15.8	10.6	15.8#
54	14.6	9.2	13.8#
68	9.3	5.4	8.0#

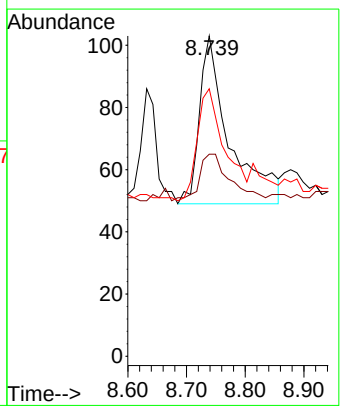


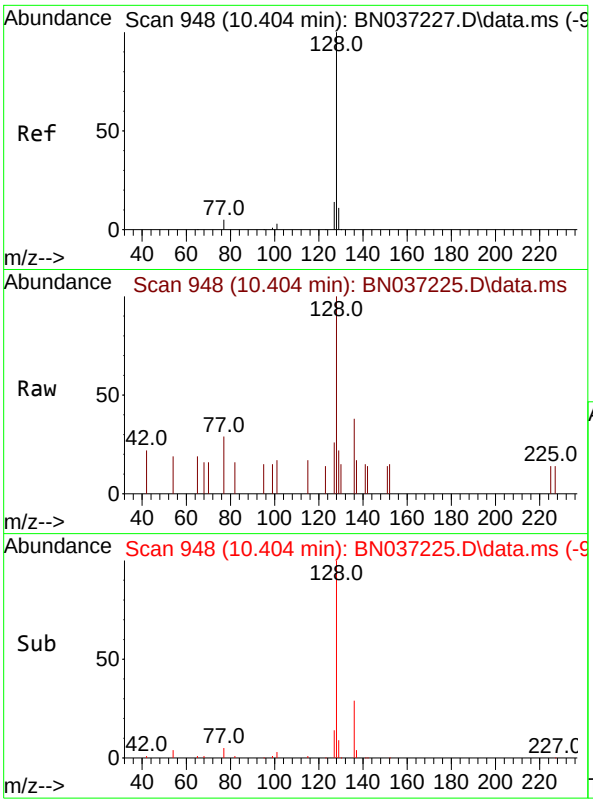


#8
Nitrobenzene-d5
Concen: 0.093 ng
RT: 8.739 min Scan# 792
Delta R.T. 0.011 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion: 82 Resp: 192

Ion	Ratio	Lower	Upper
82	100		
128	63.1	31.2	46.8#
54	83.5	63.3	94.9



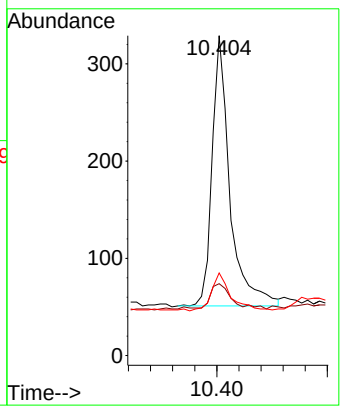


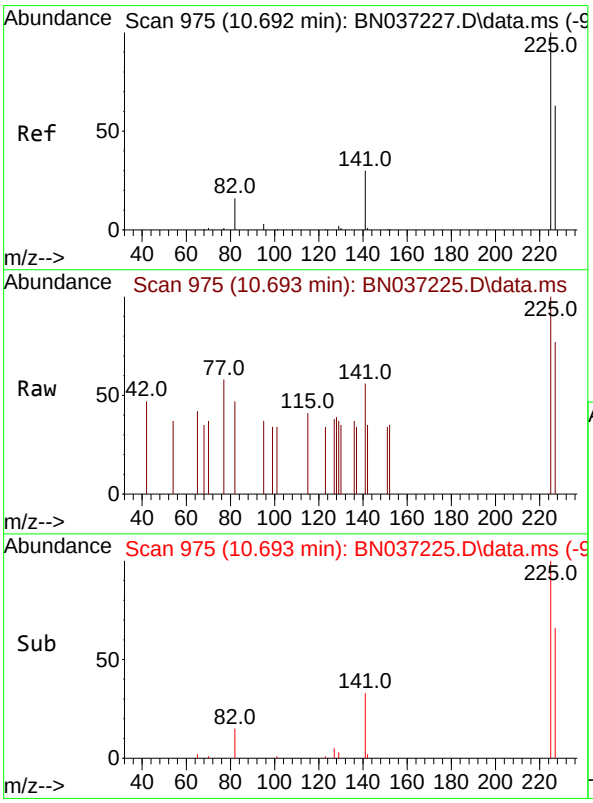
#9
Naphthalene
Concen: 0.102 ng
RT: 10.404 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:128 Resp: 622

Ion	Ratio	Lower	Upper
128	100		
129	22.5	10.7	16.1#
127	25.8	12.6	19.0#

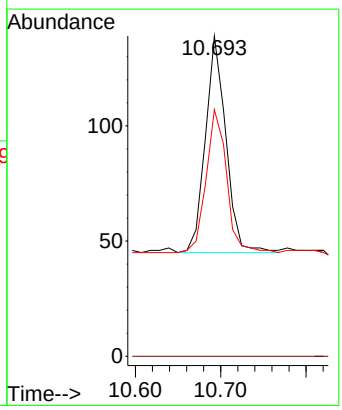


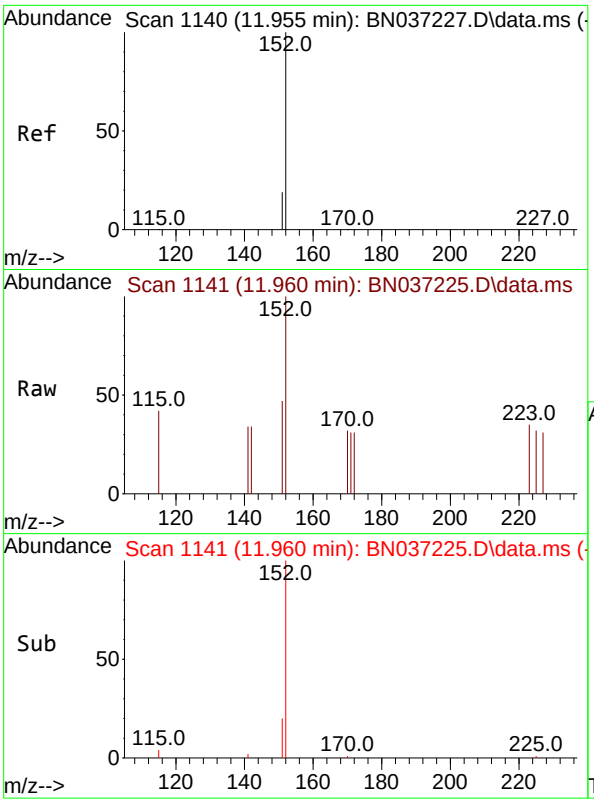


#10
Hexachlorobutadiene
Concen: 0.106 ng
RT: 10.693 min Scan# 975
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion:225 Resp: 157

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	65.6	49.2	73.8



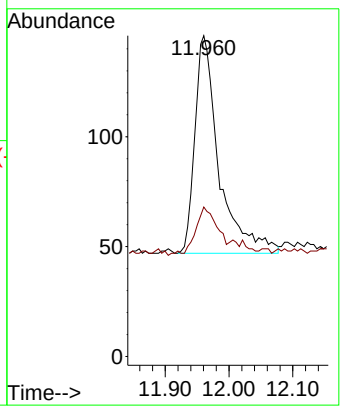


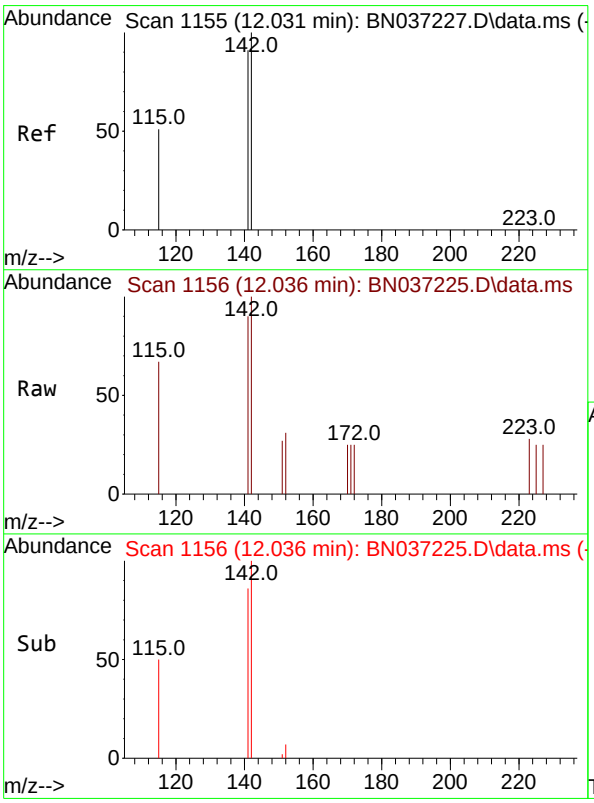
#11
2-Methylnaphthalene-d10
Concen: 0.092 ng
RT: 11.960 min Scan# 11
Delta R.T. 0.005 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:152 Resp: 260

Ion	Ratio	Lower	Upper
152	100		
151	20.8	17.9	26.9

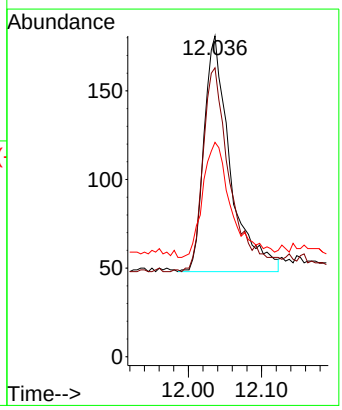


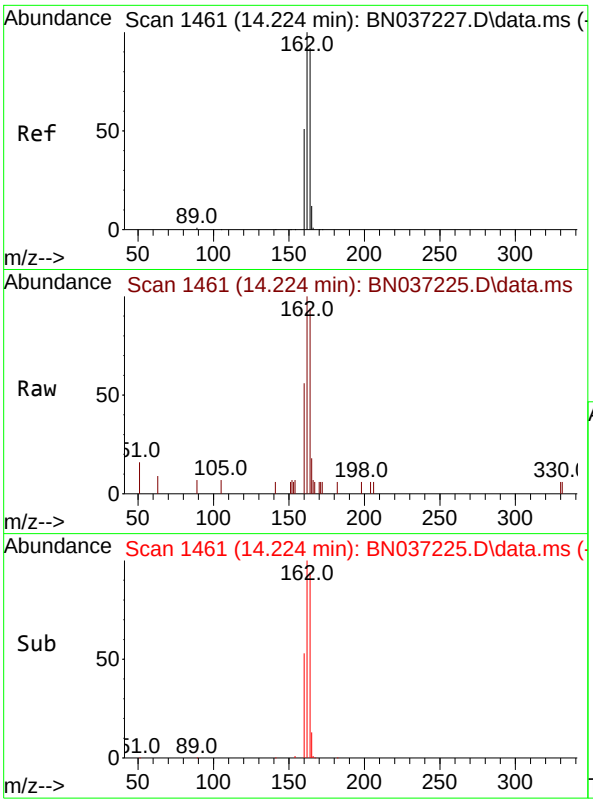


#12
2-Methylnaphthalene
Concen: 0.090 ng
RT: 12.036 min Scan# 1156
Delta R.T. 0.005 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion:142 Resp: 331

Ion	Ratio	Lower	Upper
142	100		
141	90.1	73.0	109.6
115	66.9	43.3	64.9#



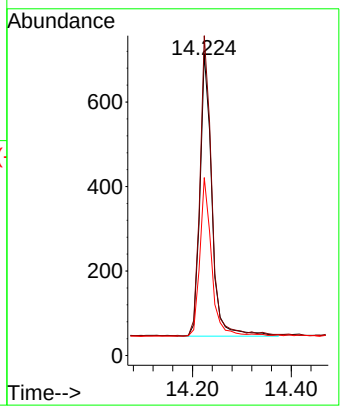


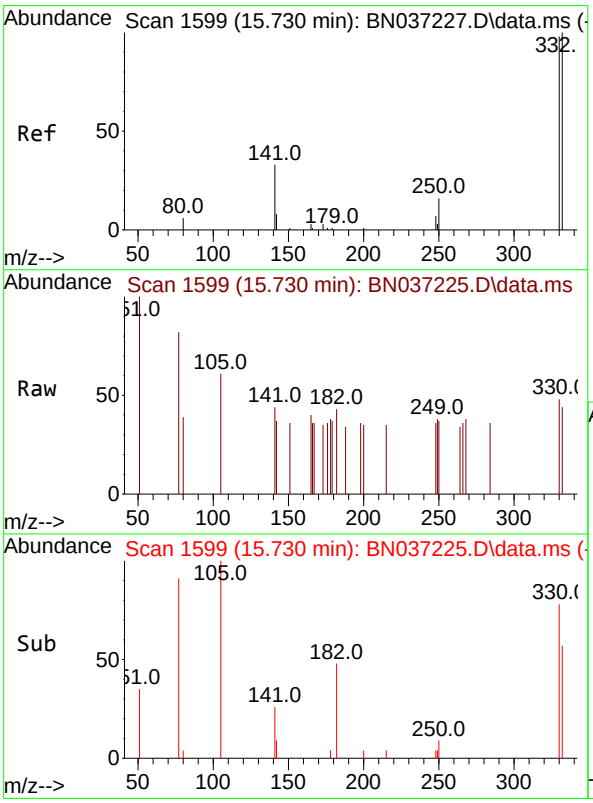
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:164 Resp: 1114

Ion	Ratio	Lower	Upper
164	100		
162	106.2	86.7	130.1
160	59.0	45.8	68.6

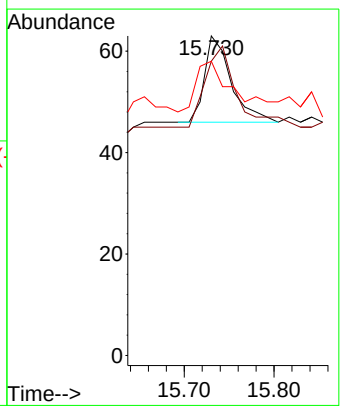


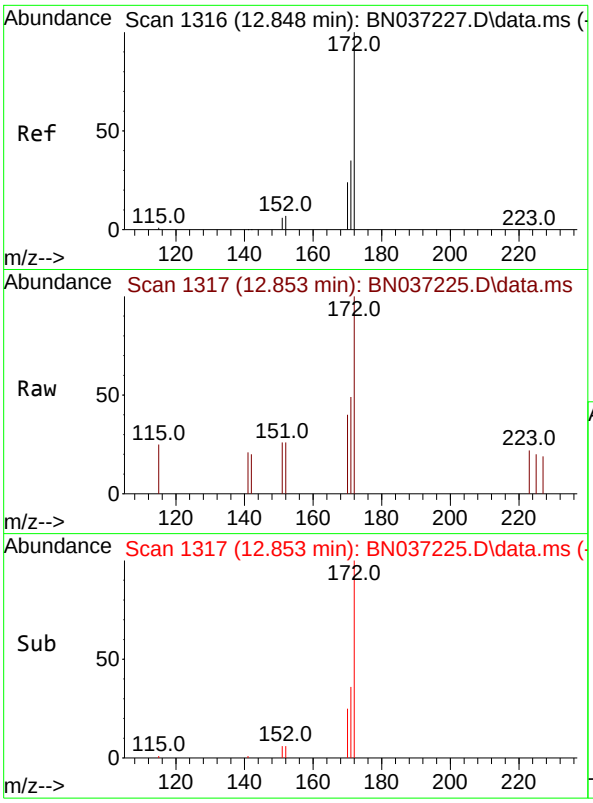


#14
2,4,6-Tribromophenol
Concen: 0.076 ng
RT: 15.730 min Scan# 1599
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion:330 Resp: 35

Ion	Ratio	Lower	Upper
330	100		
332	111.4	74.9	112.3
141	82.9	45.1	67.7#



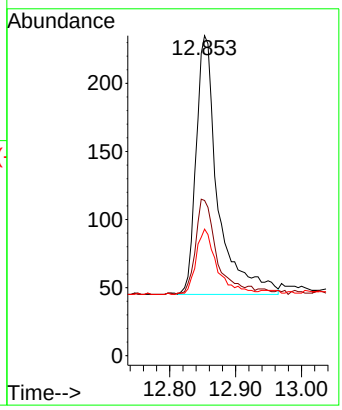


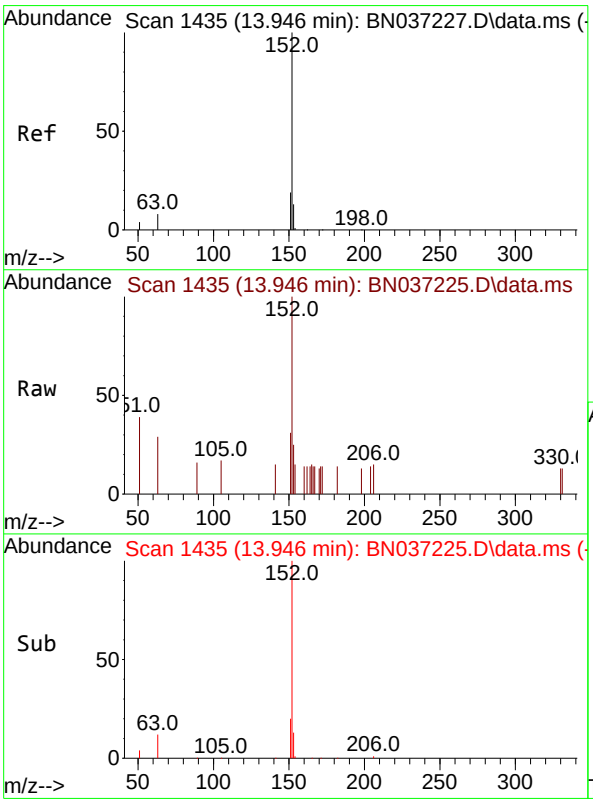
#15
2-Fluorobiphenyl
Concen: 0.093 ng
RT: 12.853 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:172 Resp: 436

Ion	Ratio	Lower	Upper
172	100		
171	48.5	29.8	44.8#
170	39.6	21.1	31.7#

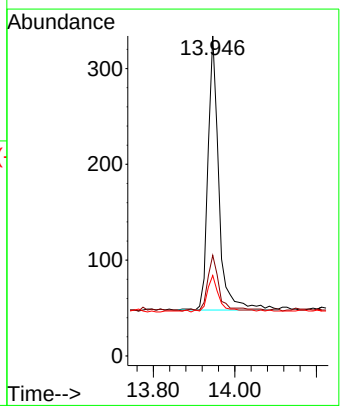


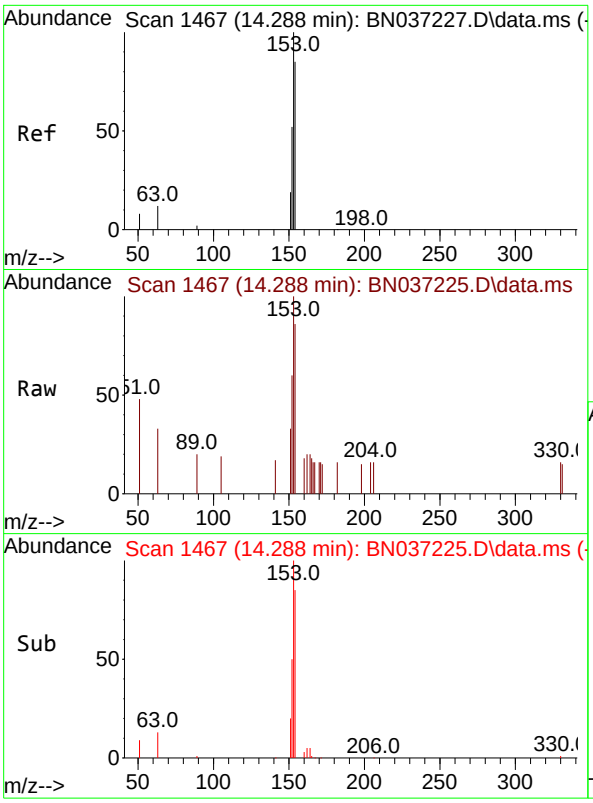


#16
Acenaphthylene
Concen: 0.097 ng
RT: 13.946 min Scan# 1435
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion:152 Resp: 531

Ion	Ratio	Lower	Upper
152	100		
151	22.4	15.7	23.5
153	14.9	10.7	16.1



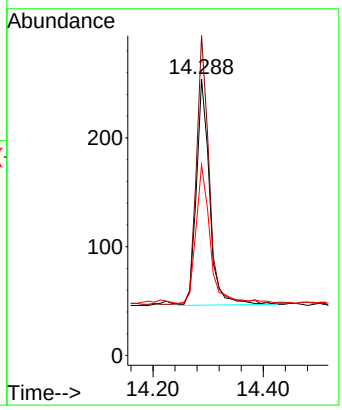


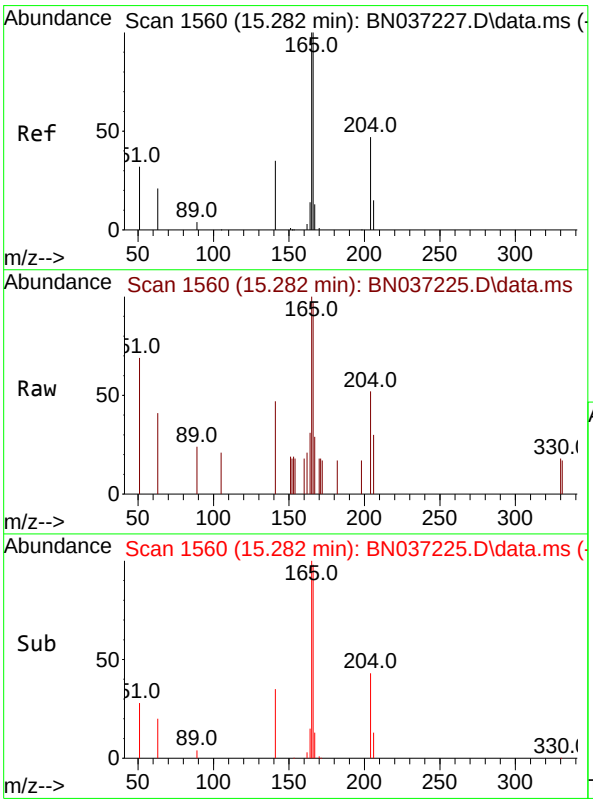
#17
Acenaphthene
Concen: 0.098 ng
RT: 14.288 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:154 Resp: 346

Ion	Ratio	Lower	Upper
154	100		
153	114.5	94.6	141.8
152	65.9	49.6	74.4

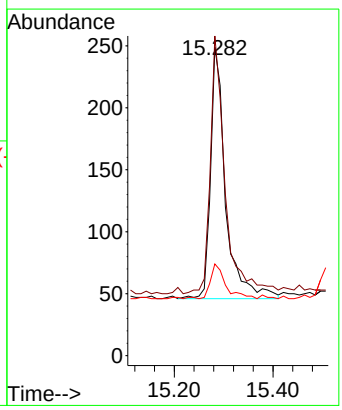


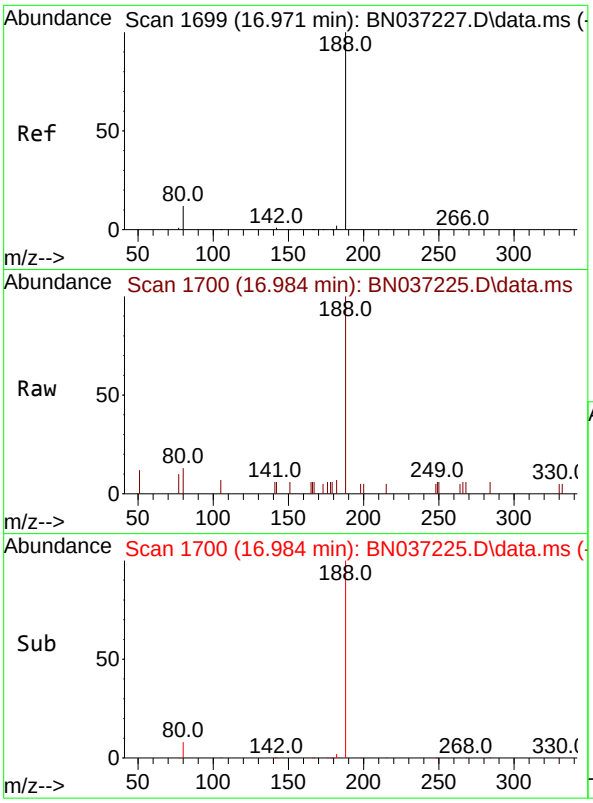


#18
Fluorene
Concen: 0.095 ng
RT: 15.282 min Scan# 1560
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion:166 Resp: 430

Ion	Ratio	Lower	Upper
166	100		
165	99.3	79.8	119.6
167	14.0	10.8	16.2



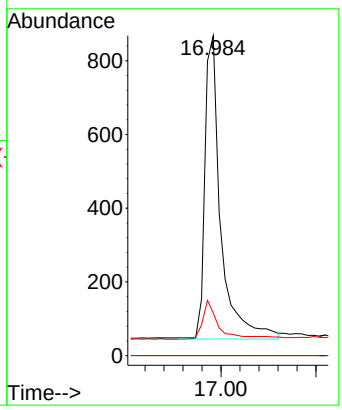


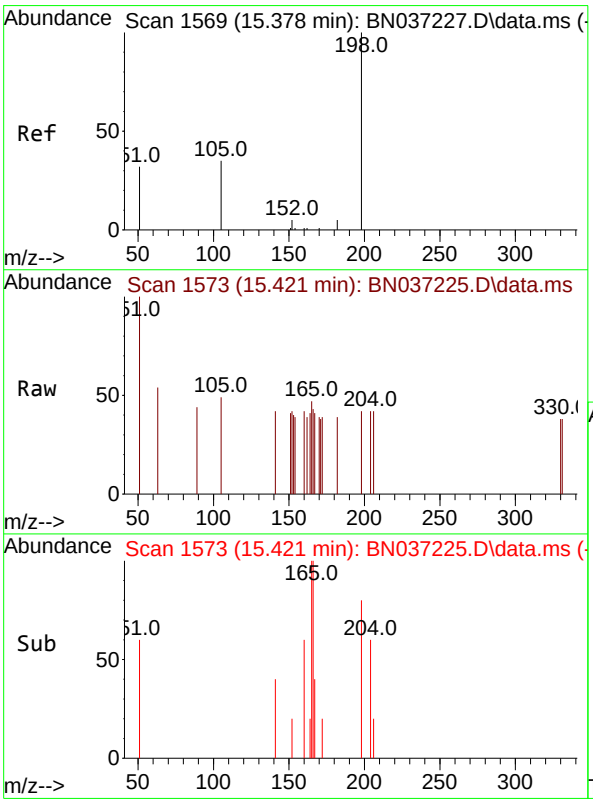
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.984 min Scan# 1
Delta R.T. 0.013 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:188 Resp: 1916

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	13.4	12.2	18.4

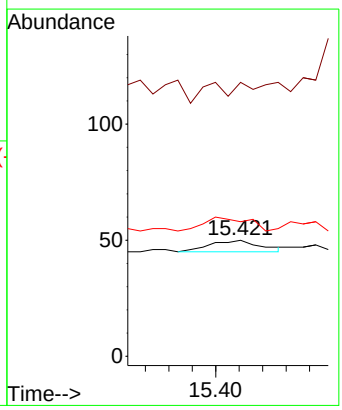


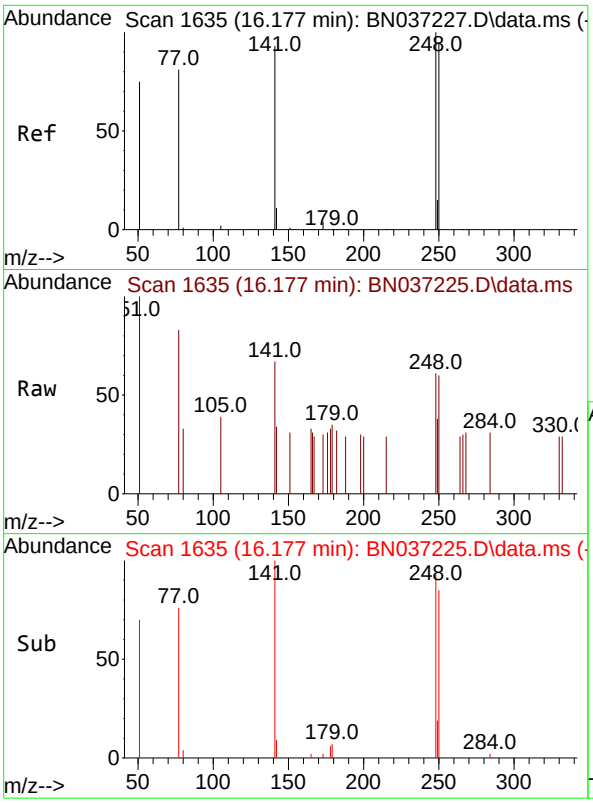


#20
4,6-Dinitro-2-methylphenol
Concen: 0.146 ng
RT: 15.421 min Scan# 1573
Delta R.T. 0.043 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion:198 Resp: 15

Ion	Ratio	Lower	Upper
198	100		
51	236.0	111.2	166.8#
105	116.0	54.0	81.0#



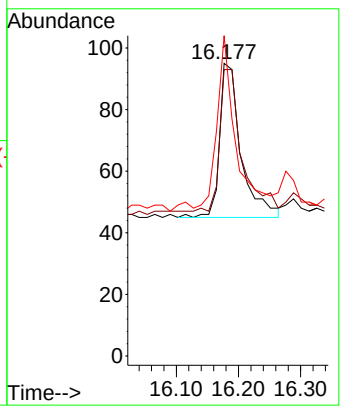


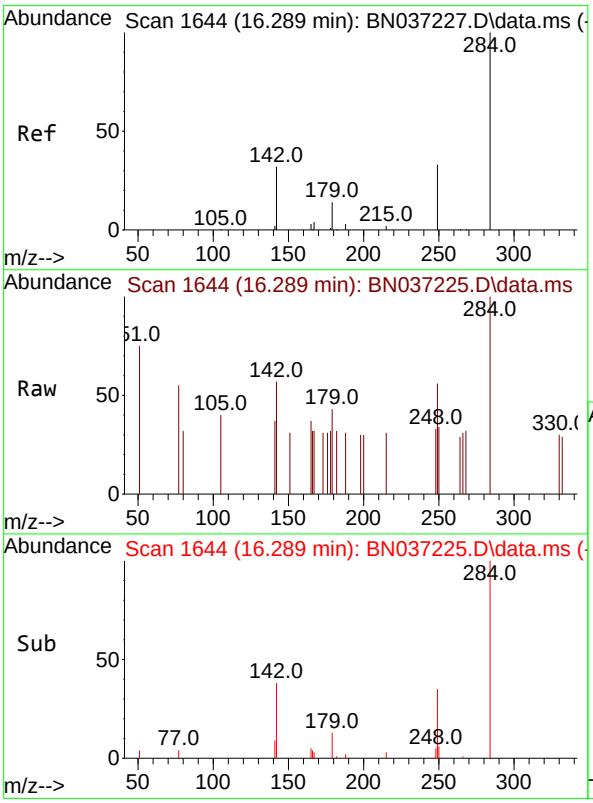
#21
4-Bromophenyl-phenylether
Concen: 0.095 ng
RT: 16.177 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:248 Resp: 119

Ion	Ratio	Lower	Upper
248	100		
250	97.9	76.8	115.2
141	109.5	75.6	113.4

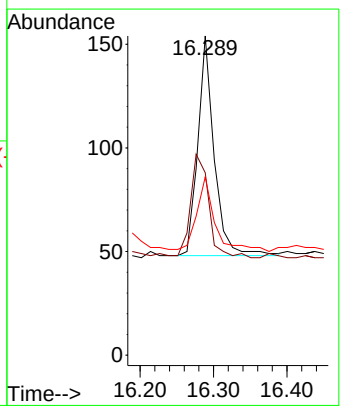


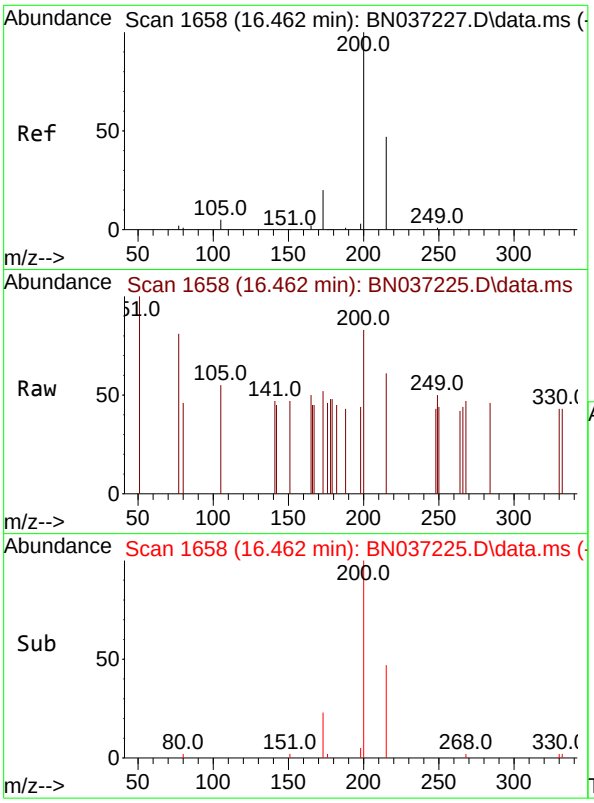


#22
Hexachlorobenzene
Concen: 0.113 ng
RT: 16.289 min Scan# 1644
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion:284 Resp: 164

Ion	Ratio	Lower	Upper
284	100		
142	52.4	43.8	65.6
249	38.4	28.4	42.6



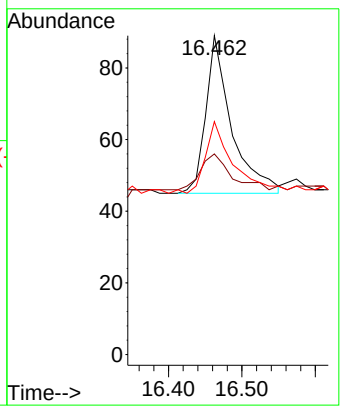


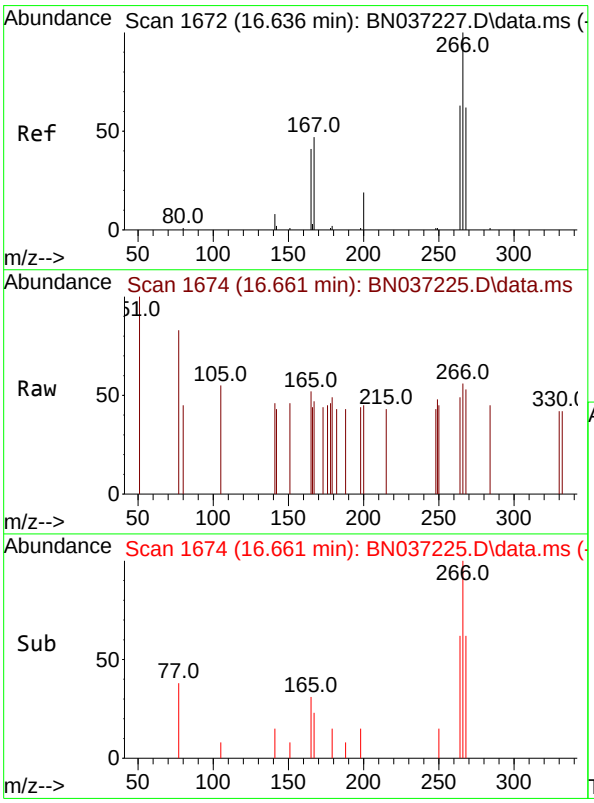
#23
Atrazine
Concen: 0.096 ng
RT: 16.462 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:200 Resp: 107

Ion	Ratio	Lower	Upper
200	100		
173	62.9	25.1	37.7#
215	73.0	43.7	65.5#

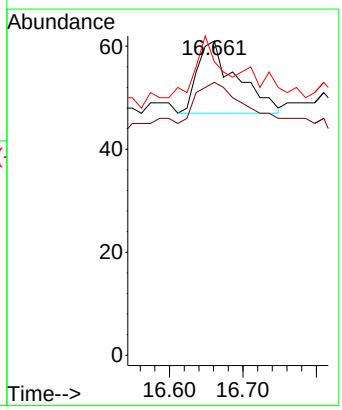


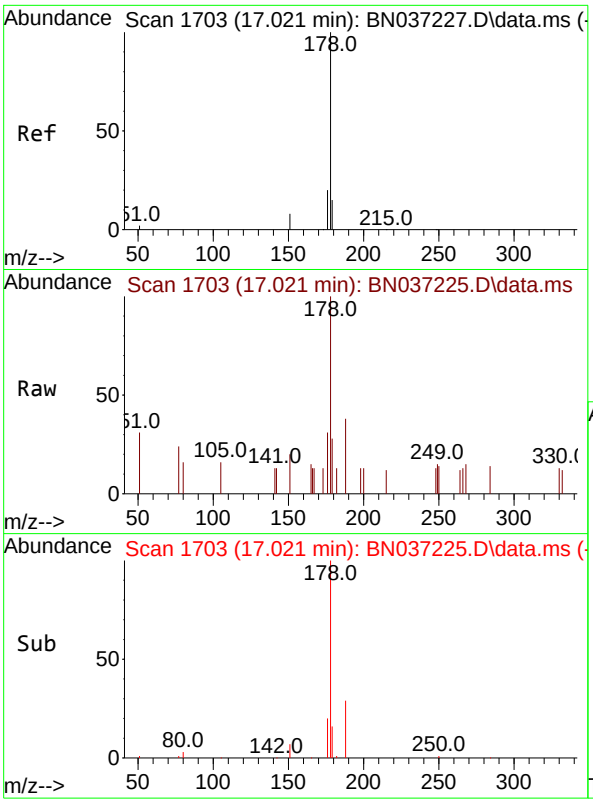


#24
Pentachlorophenol
Concen: 0.073 ng
RT: 16.661 min Scan# 1674
Delta R.T. 0.025 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion:266 Resp: 52

Ion	Ratio	Lower	Upper
266	100		
264	73.1	49.2	73.8
268	82.7	53.4	80.2#



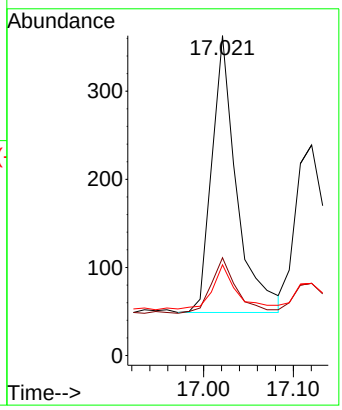


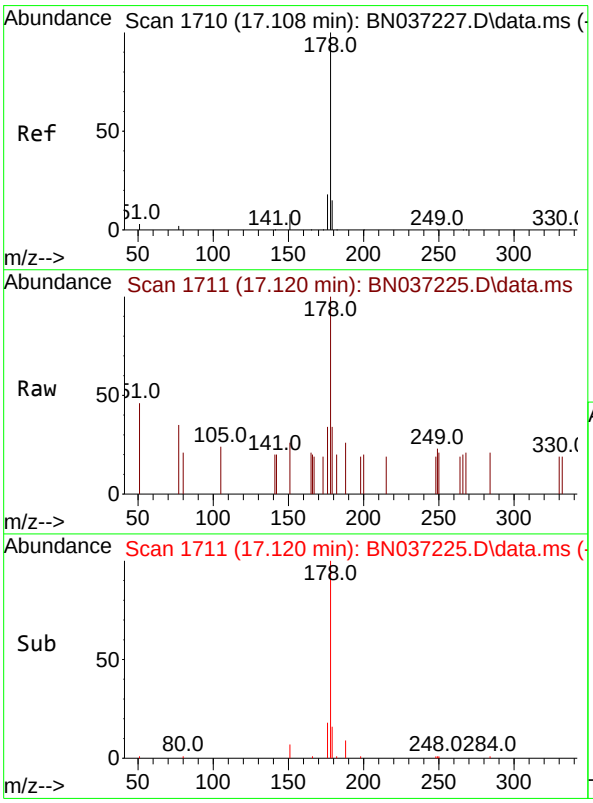
#25
Phenanthrene
Concen: 0.099 ng
RT: 17.021 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:178 Resp: 600

Ion	Ratio	Lower	Upper
178	100		
176	20.3	16.3	24.5
179	15.8	12.6	18.8

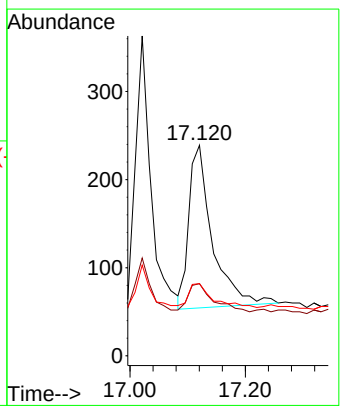


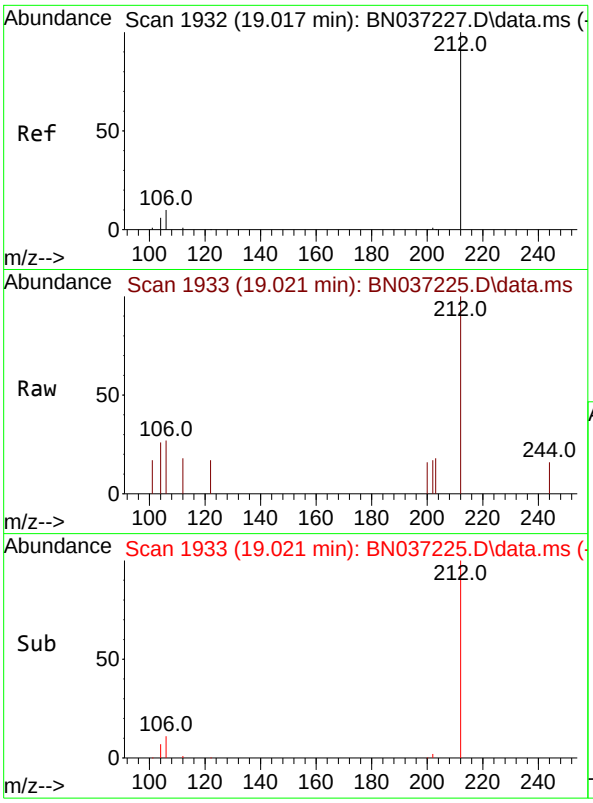


#26
Anthracene
Concen: 0.094 ng
RT: 17.120 min Scan# 1711
Delta R.T. 0.013 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion:178 Resp: 524

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.1	22.7
179	15.1	12.4	18.6



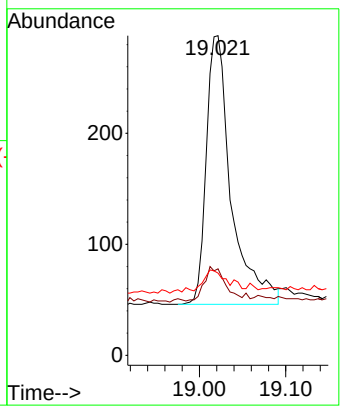


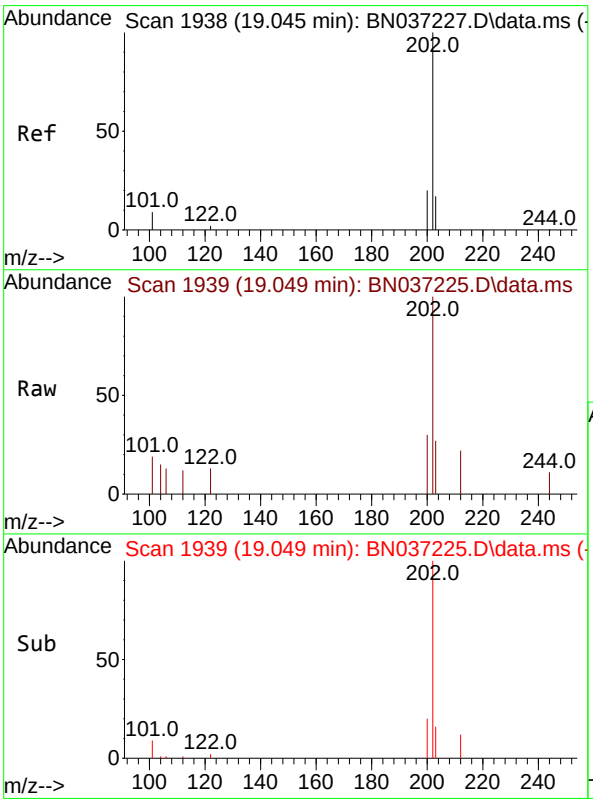
#27
Fluoranthene-d10
Concen: 0.097 ng
RT: 19.021 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:212 Resp: 486

Ion	Ratio	Lower	Upper
212	100		
106	10.5	9.3	13.9
104	9.7	5.7	8.5#

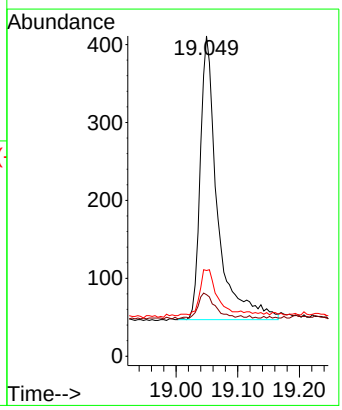


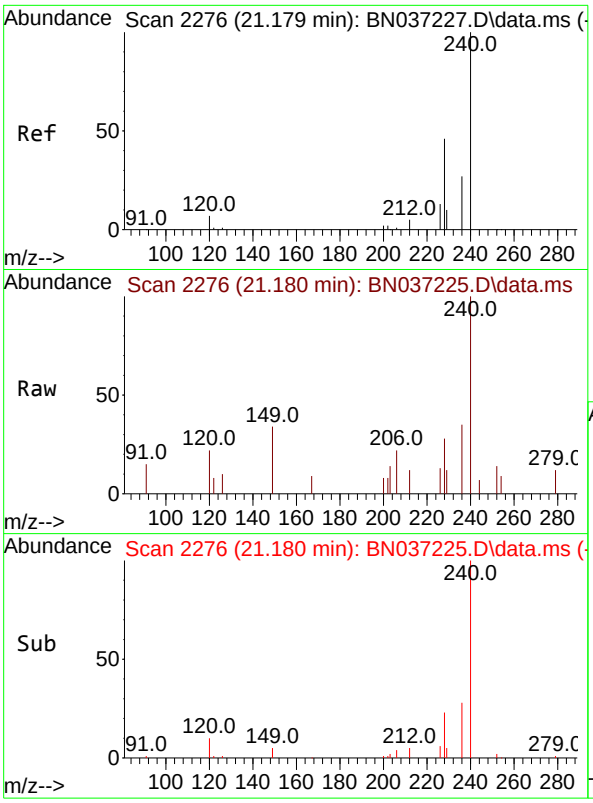


#28
Fluoranthene
Concen: 0.099 ng
RT: 19.049 min Scan# 1939
Delta R.T. 0.005 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion:202 Resp: 704

Ion	Ratio	Lower	Upper
202	100		
101	9.1	7.1	10.7
203	15.9	13.0	19.6



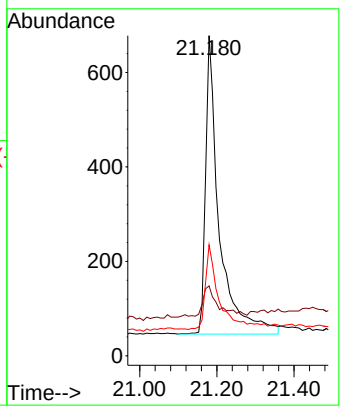


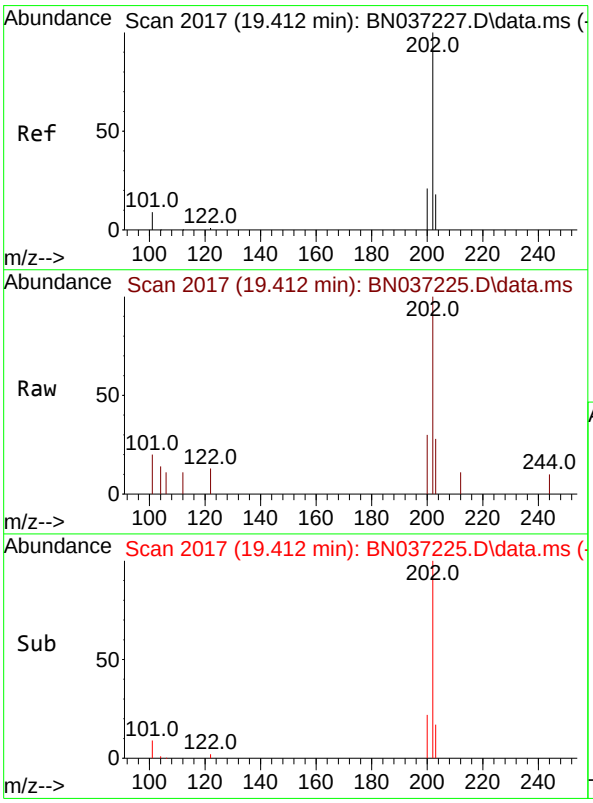
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.180 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:240 Resp: 1546

Ion	Ratio	Lower	Upper
240	100		
120	21.8	11.3	16.9#
236	34.7	24.4	36.6

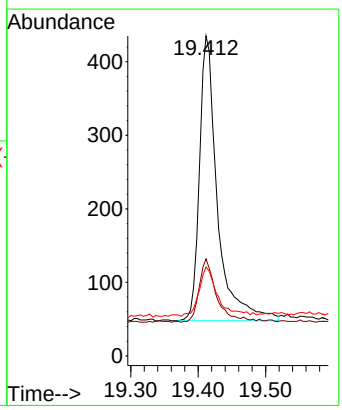


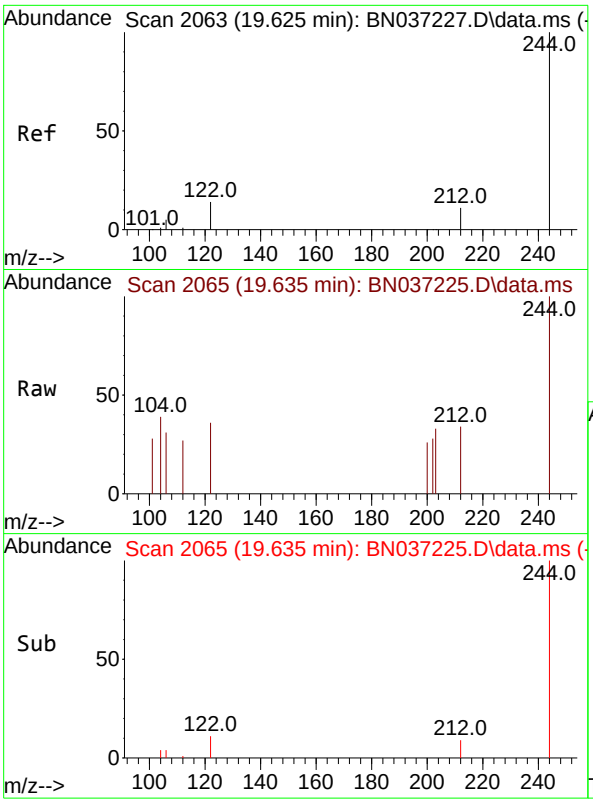


#30
Pyrene
Concen: 0.098 ng
RT: 19.412 min Scan# 2017
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion:202 Resp: 715

Ion	Ratio	Lower	Upper
202	100		
200	21.8	17.2	25.8
203	18.0	14.3	21.5



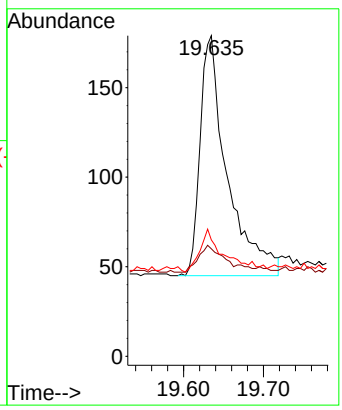


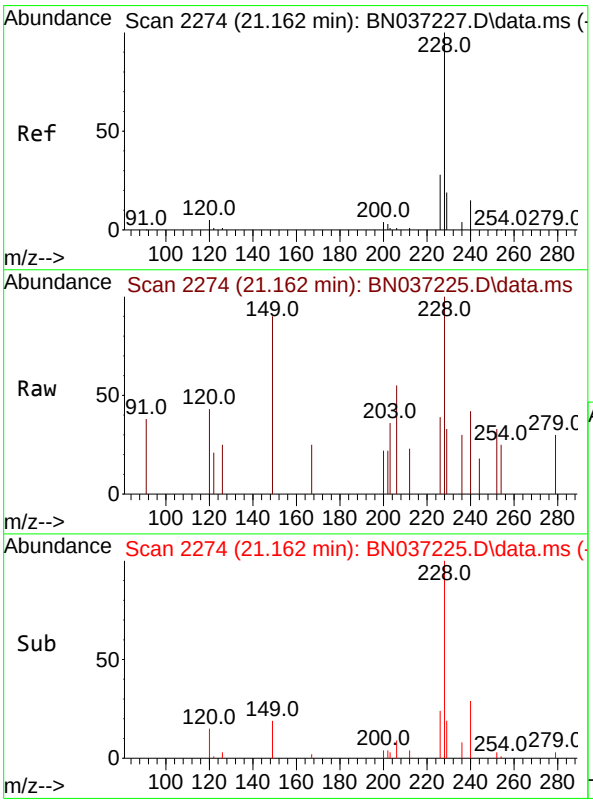
#31
Terphenyl-d14
Concen: 0.090 ng
RT: 19.635 min Scan# 2
Delta R.T. 0.009 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:244 Resp: 315

Ion	Ratio	Lower	Upper
244	100		
212	33.5	12.2	18.2#
122	36.3	14.3	21.5#

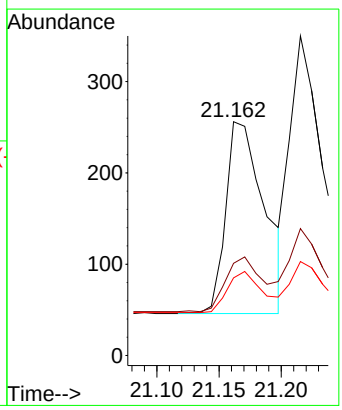


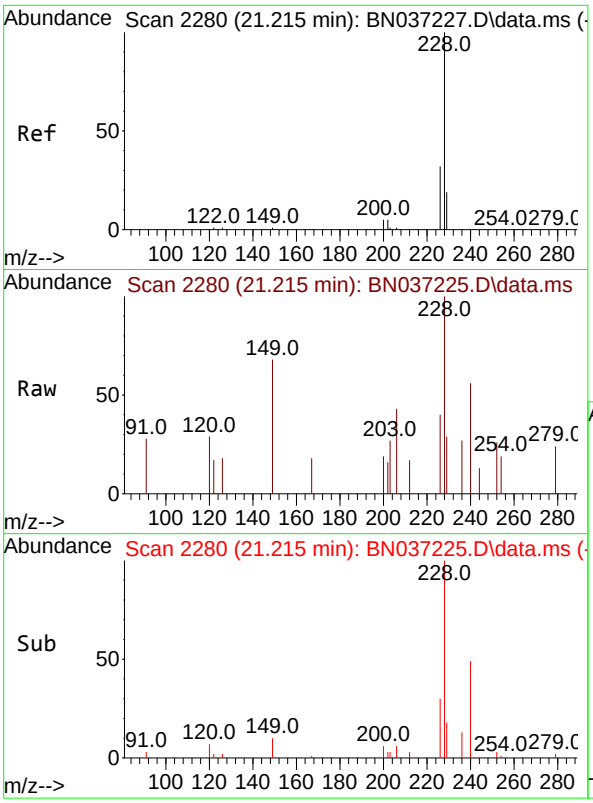


#32
Benzo(a)anthracene
Concen: 0.087 ng
RT: 21.162 min Scan# 2274
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion:228 Resp: 454

Ion	Ratio	Lower	Upper
228	100		
226	39.5	23.8	35.8#
229	33.2	17.0	25.4#



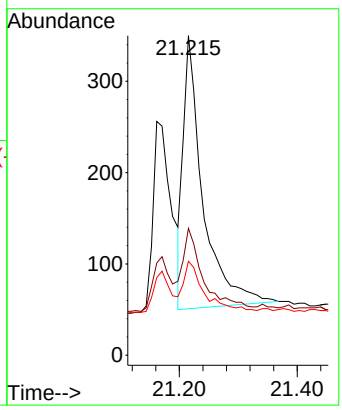


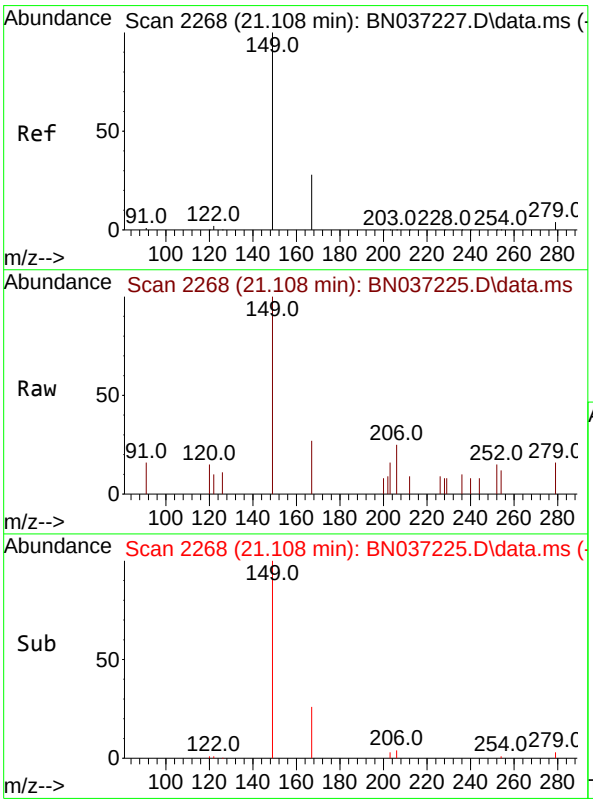
#33
Chrysene
Concen: 0.106 ng
RT: 21.215 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:228 Resp: 689

Ion	Ratio	Lower	Upper
228	100		
226	39.7	25.8	38.6#
229	29.4	17.0	25.4#

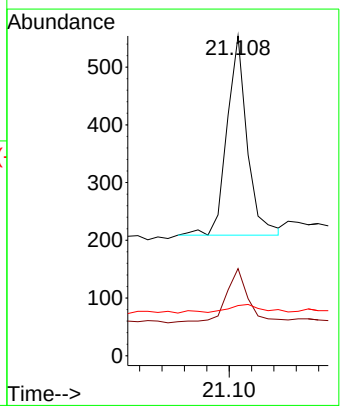


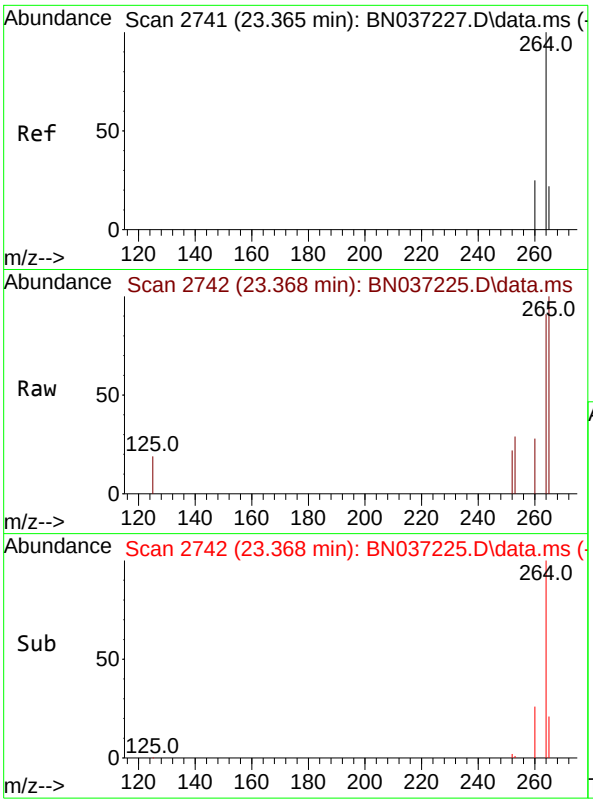


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.111 ng
RT: 21.108 min Scan# 2268
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion:149 Resp: 432

Ion	Ratio	Lower	Upper
149	100		
167	27.8	21.3	31.9
279	8.3	3.3	4.9#



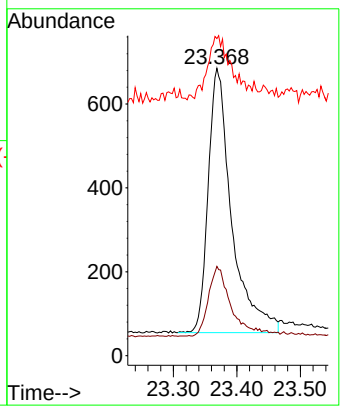


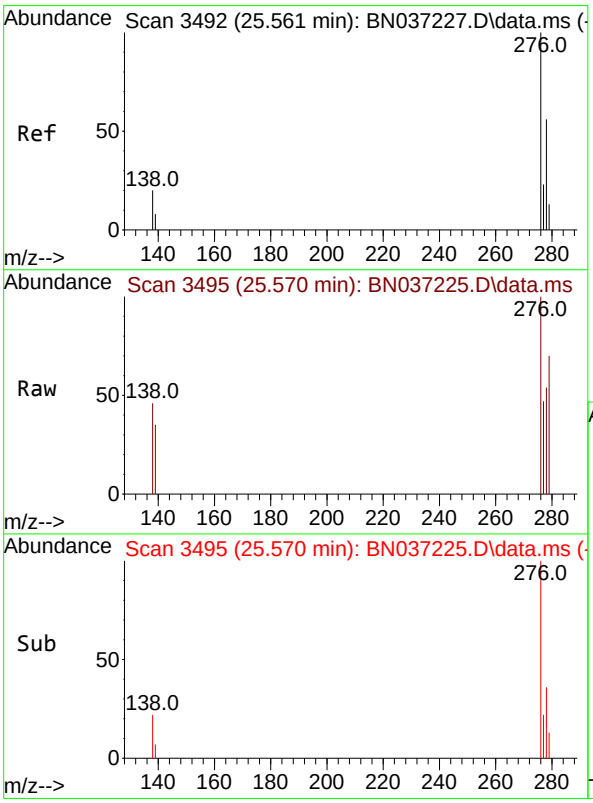
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.368 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:264 Resp: 1617

Ion	Ratio	Lower	Upper
264	100		
260	31.1	22.8	34.2
265	110.4	66.4	99.6#

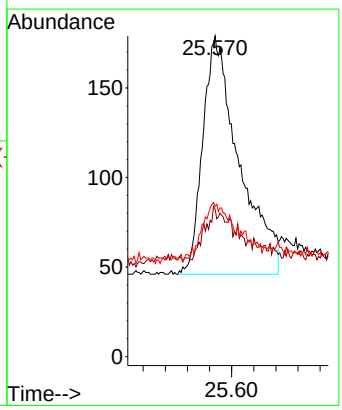


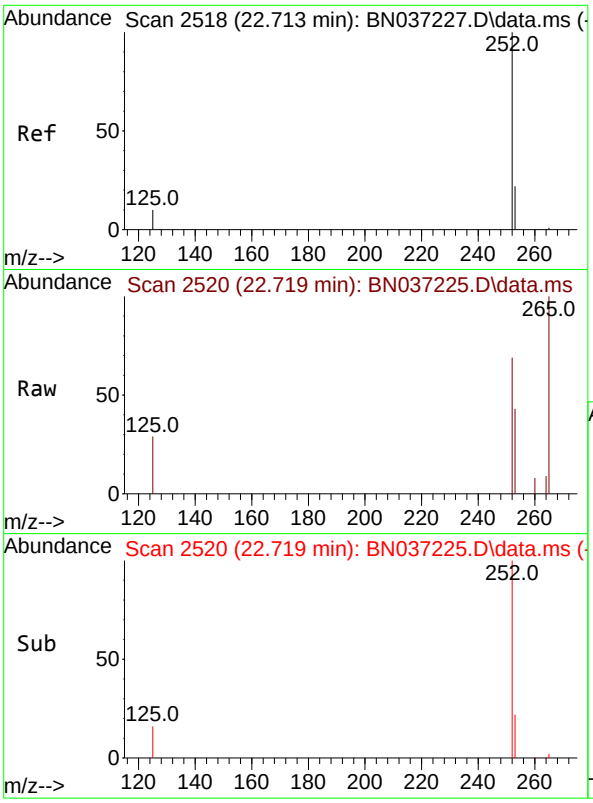


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.093 ng
RT: 25.570 min Scan# 3495
Delta R.T. 0.009 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion:276 Resp: 609

Ion	Ratio	Lower	Upper
276	100		
138	1.3	16.8	25.2#
277	18.6	19.5	29.3#



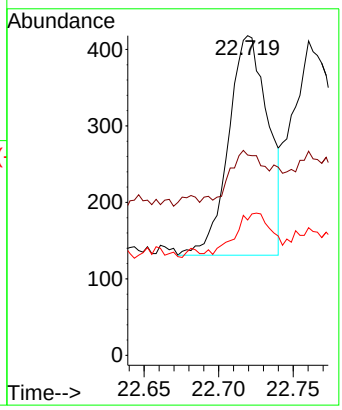


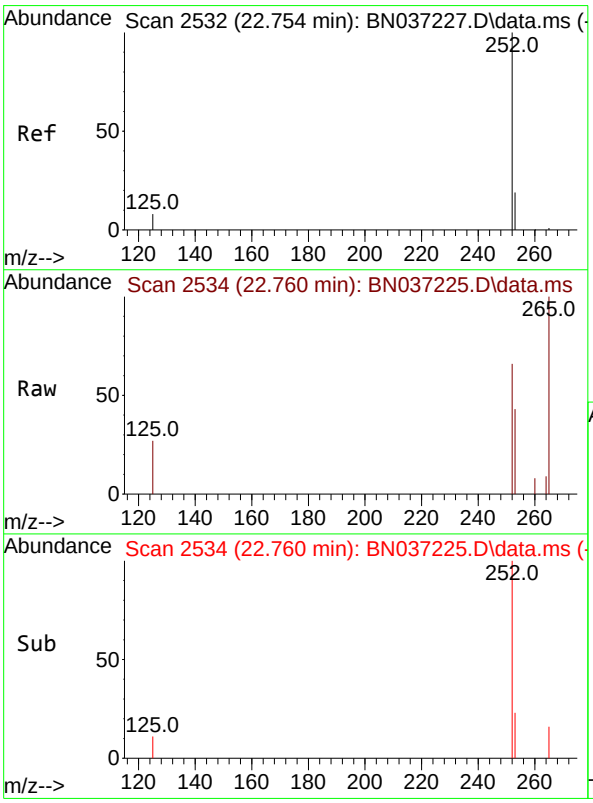
#37
Benzo(b)fluoranthene
Concen: 0.089 ng
RT: 22.719 min Scan# 2
Delta R.T. 0.006 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:252 Resp: 529

Ion	Ratio	Lower	Upper
252	100		
253	62.7	24.9	37.3#
125	42.3	12.9	19.3#

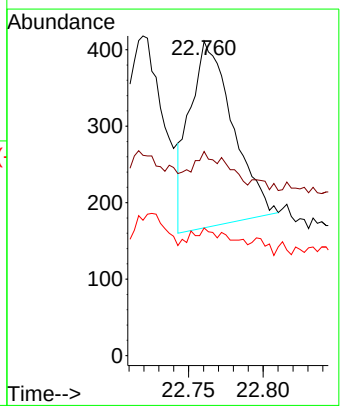


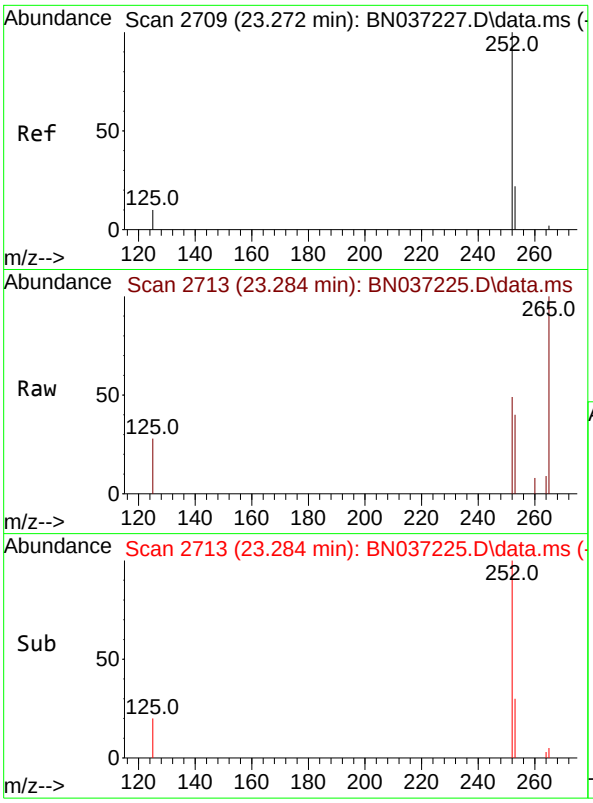


#38
Benzo(k)fluoranthene
Concen: 0.072 ng
RT: 22.760 min Scan# 2534
Delta R.T. 0.006 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion:252 Resp: 488

Ion	Ratio	Lower	Upper
252	100		
253	65.0	24.6	37.0#
125	40.6	13.4	20.2#



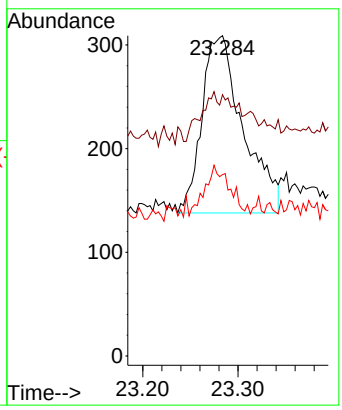


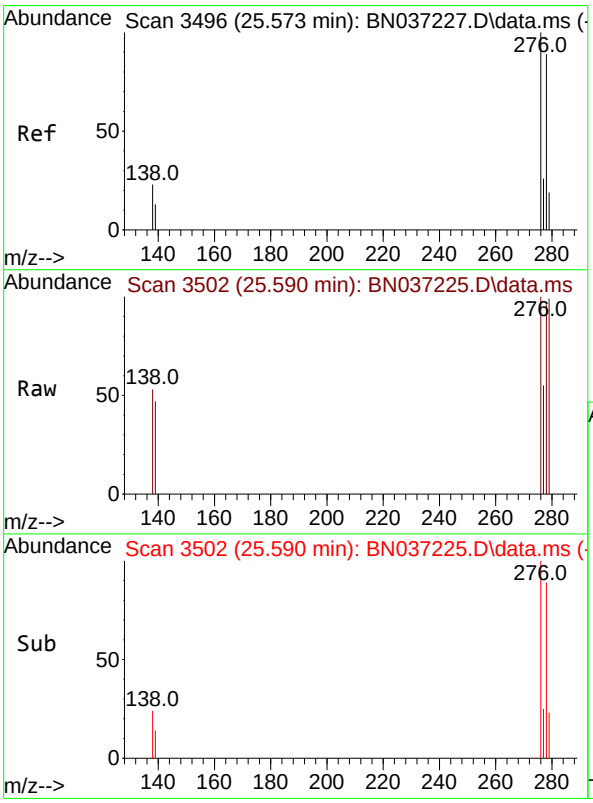
#39
Benzo(a)pyrene
Concen: 0.097 ng
RT: 23.284 min Scan# 2
Delta R.T. 0.012 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:252 Resp: 514

Ion	Ratio	Lower	Upper
252	100		
253	81.6	29.4	44.2#
125	56.6	16.2	24.2#

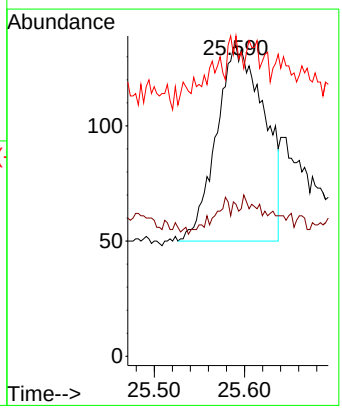


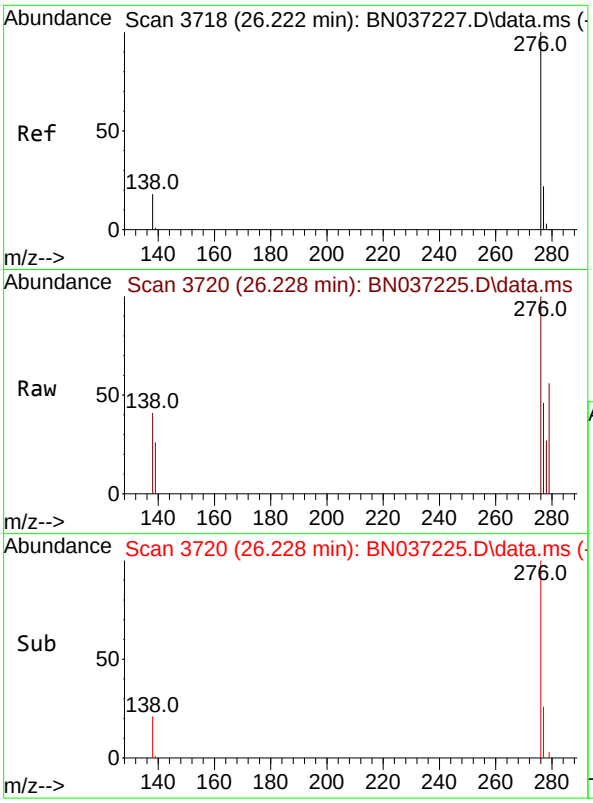


#40
Dibenzo(a,h)anthracene
Concen: 0.064 ng
RT: 25.590 min Scan# 3502
Delta R.T. 0.018 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion:278 Resp: 313

Ion	Ratio	Lower	Upper
278	100		
139	48.9	17.8	26.6#
279	103.0	31.3	46.9#



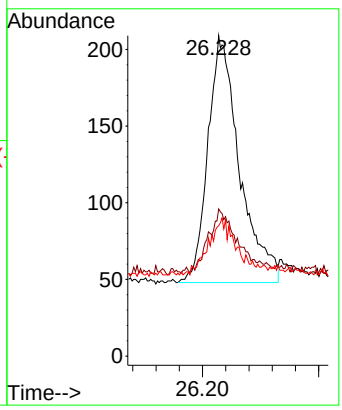


#41
Benzo(g,h,i)perylene
Concen: 0.101 ng
RT: 26.228 min Scan# 3
Delta R.T. 0.006 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:276 Resp: 608

Ion	Ratio	Lower	Upper
276	100		
277	45.9	22.0	33.0#
138	40.7	18.4	27.6#



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037246.D
Acq On : 14 Jun 2025 03:32
Operator : RC/JU
Sample : Q2299-03MS
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MS

Quant Time: Jun 14 04:22:07 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration

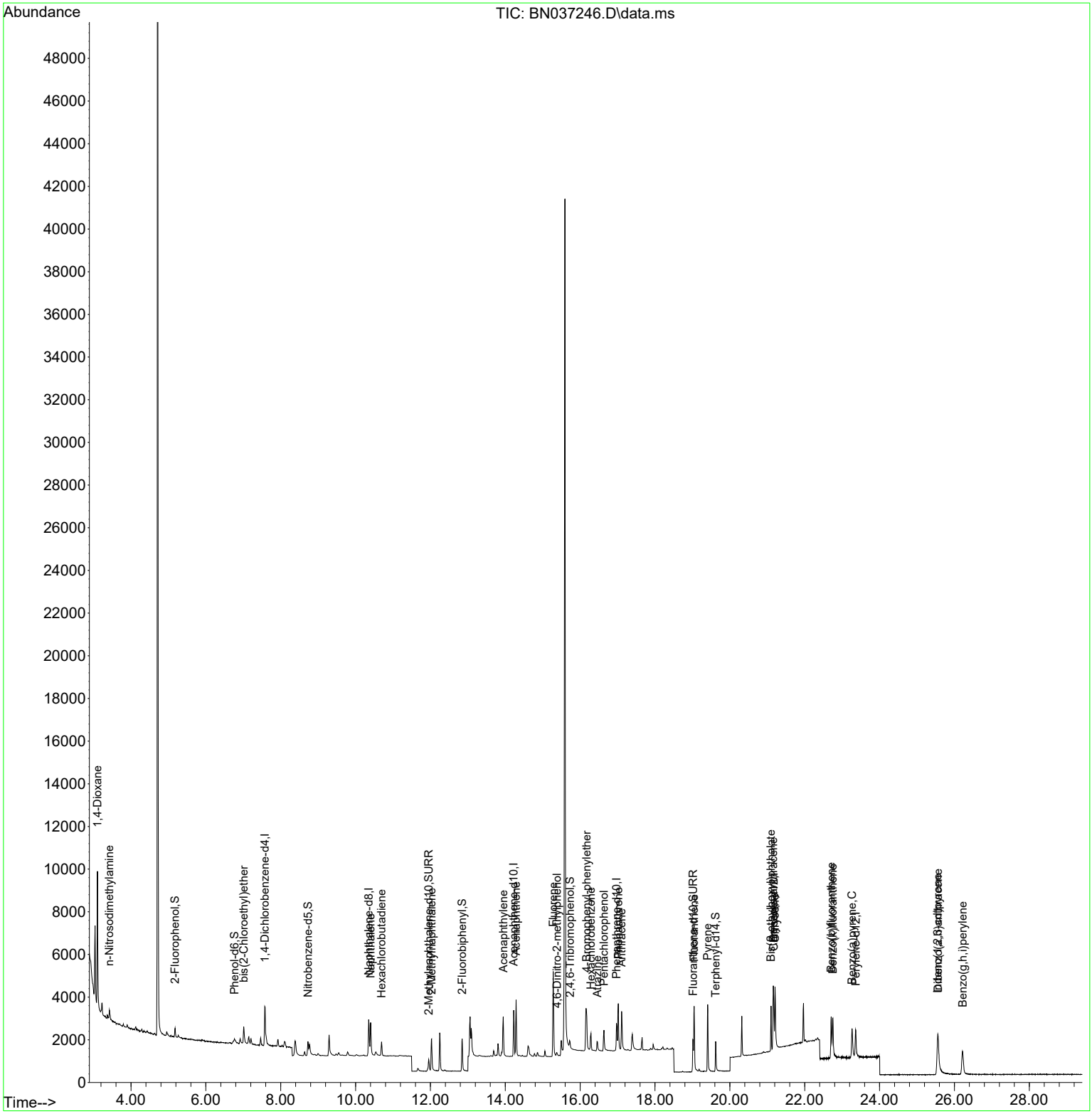
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.575	152	952	0.400	ng		0.00
7) Naphthalene-d8	10.351	136	2349	0.400	ng		#-0.01
13) Acenaphthene-d10	14.224	164	1209	0.400	ng		0.00
19) Phenanthrene-d10	16.971	188	2152	0.400	ng		0.00
29) Chrysene-d12	21.171	240	1734	0.400	ng		0.00
35) Perylene-d12	23.363	264	1757	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.177	112	294	0.126	ng		0.00
5) Phenol-d6	6.766	99	177	0.072	ng		0.00
8) Nitrobenzene-d5	8.728	82	665	0.286	ng		0.00
11) 2-Methylnaphthalene-d10	11.955	152	1062	0.337	ng		0.00
14) 2,4,6-Tribromophenol	15.730	330	173	0.345	ng		0.00
15) 2-Fluorobiphenyl	12.848	172	1503	0.296	ng		0.00
27) Fluoranthene-d10	19.017	212	1941	0.345	ng		0.00
31) Terphenyl-d14	19.621	244	1642	0.419	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.104	88	2754	2.109	ng	#	91
3) n-Nitrosodimethylamine	3.422	42	489	0.164	ng		99
6) bis(2-Chloroethyl)ether	7.011	93	689	0.312	ng		94
9) Naphthalene	10.404	128	2106	0.310	ng		98
10) Hexachlorobutadiene	10.692	225	492	0.297	ng	#	99
12) 2-Methylnaphthalene	12.031	142	1184	0.286	ng		97
16) Acenaphthylene	13.946	152	2092	0.353	ng		98
17) Acenaphthene	14.288	154	1223	0.320	ng		100
18) Fluorene	15.282	166	1616	0.329	ng		98
20) 4,6-Dinitro-2-methylph...	15.378	198	182	0.438	ng		88
21) 4-Bromophenyl-phenylether	16.177	248	506	0.361	ng		92
22) Hexachlorobenzene	16.289	284	539	0.332	ng		96
23) Atrazine	16.462	200	508	0.406	ng		97
24) Pentachlorophenol	16.636	266	556	0.698	ng		98
25) Phenanthrene	17.021	178	2496	0.366	ng		98
26) Anthracene	17.108	178	2343	0.375	ng		99
28) Fluoranthene	19.045	202	3009	0.377	ng	#	95
30) Pyrene	19.407	202	3076	0.377	ng		100
32) Benzo(a)anthracene	21.162	228	2465	0.421	ng		99
33) Chrysene	21.206	228	2864	0.393	ng		99
34) Bis(2-ethylhexyl)phtha...	21.099	149	1818	0.417	ng	#	98
36) Indeno(1,2,3-cd)pyrene	25.549	276	2816	0.397	ng		99
37) Benzo(b)fluoranthene	22.708	252	2482	0.386	ng		97
38) Benzo(k)fluoranthene	22.751	252	2823	0.381	ng		98
39) Benzo(a)pyrene	23.266	252	2344	0.405	ng		99
40) Dibenzo(a,h)anthracene	25.564	278	2000	0.371	ng		98
41) Benzo(g,h,i)perylene	26.219	276	2427	0.369	ng		97

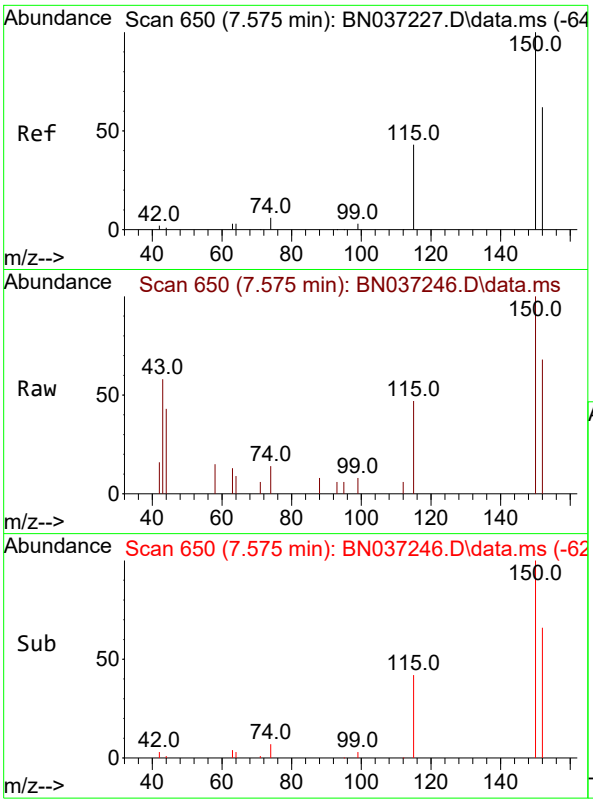
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037246.D
Acq On : 14 Jun 2025 03:32
Operator : RC/JU
Sample : Q2299-03MS
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MS

Quant Time: Jun 14 04:22:07 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration



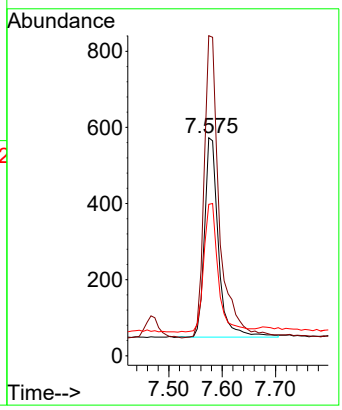


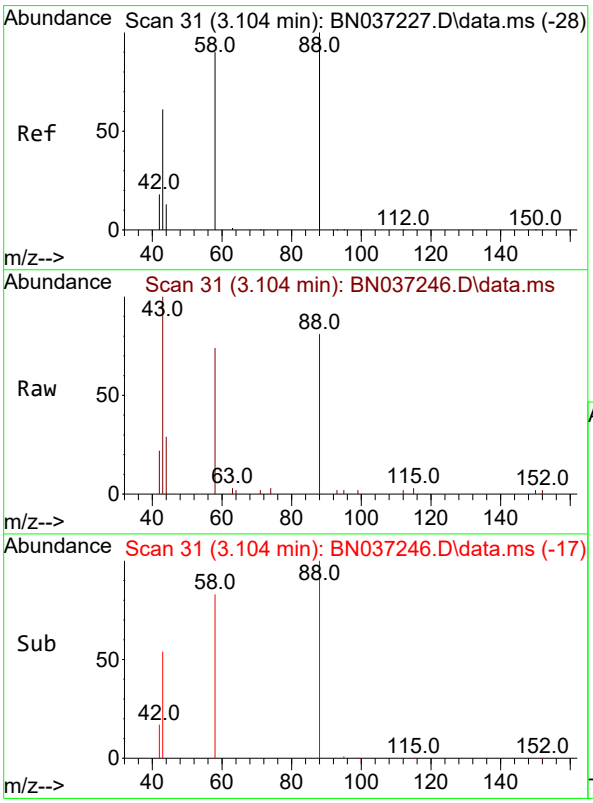
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MS

Tgt Ion:152 Resp: 952

Ion	Ratio	Lower	Upper
152	100		
150	146.8	125.2	187.8
115	69.5	58.4	87.6

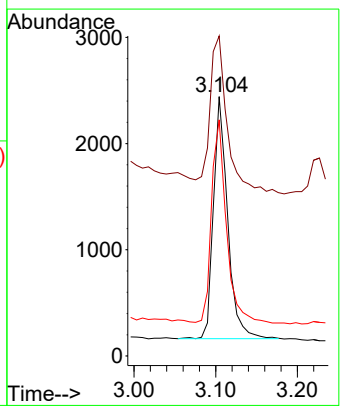


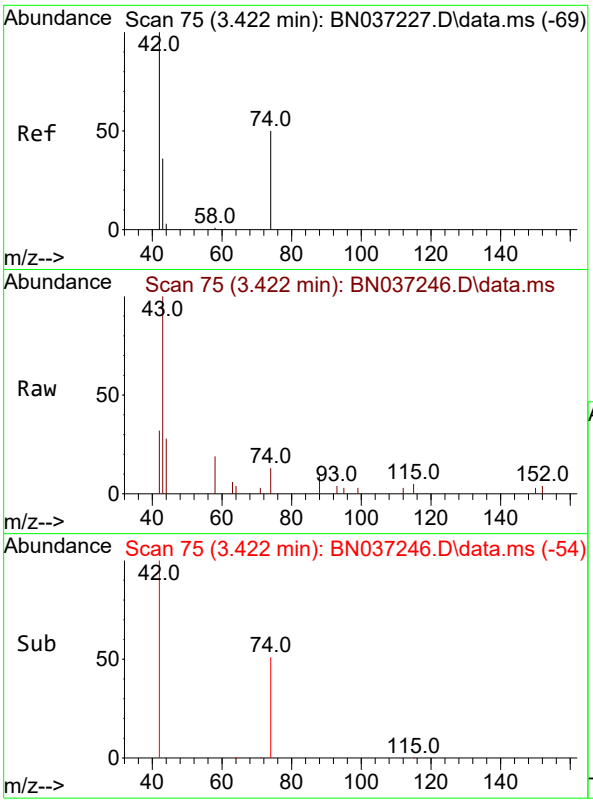


#2
1,4-Dioxane
Concen: 2.109 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Tgt Ion: 88 Resp: 2754

Ion	Ratio	Lower	Upper
88	100		
43	79.0	52.6	79.0#
58	88.0	73.5	110.3



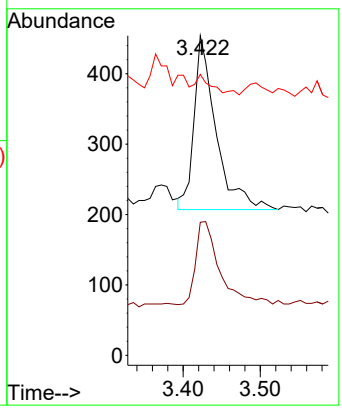


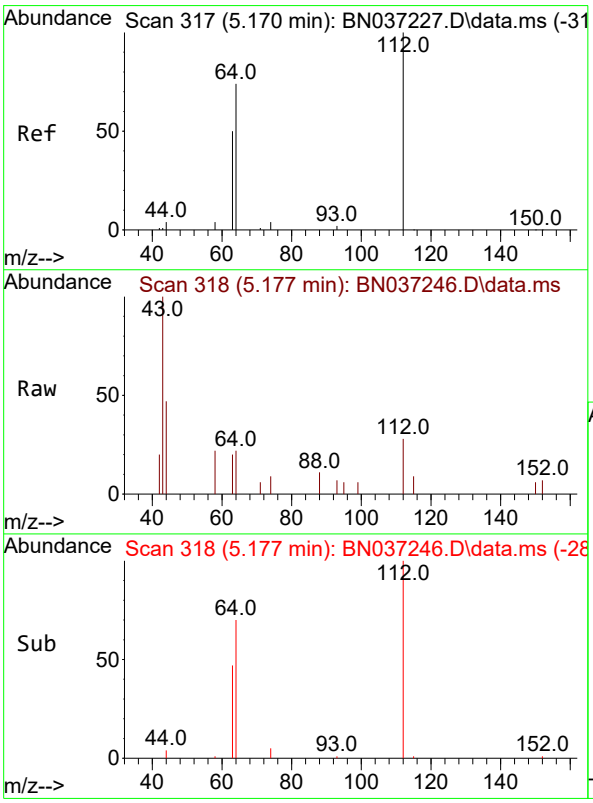
#3
n-Nitrosodimethylamine
Concen: 0.164 ng
RT: 3.422 min Scan# 7
Delta R.T. 0.000 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MS

Tgt Ion: 42 Resp: 489

Ion	Ratio	Lower	Upper
42	100		
74	54.6	44.6	66.8
44	4.7	3.5	5.3

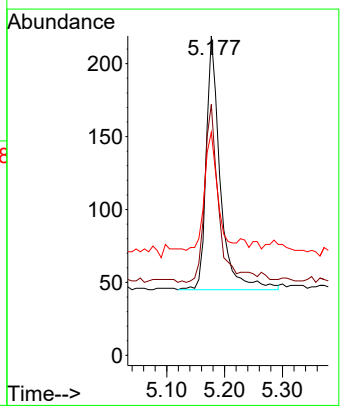


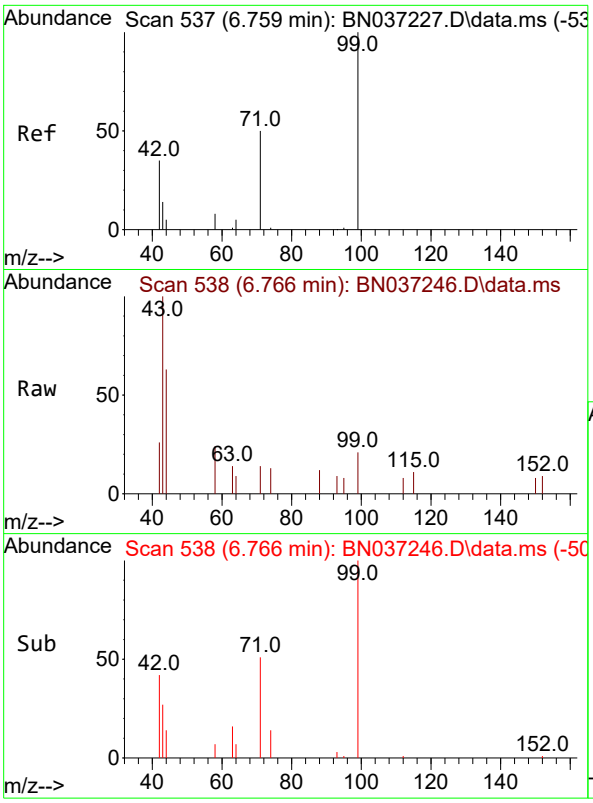


#4
2-Fluorophenol
Concen: 0.126 ng
RT: 5.177 min Scan# 318
Delta R.T. 0.007 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Tgt Ion:112 Resp: 294

Ion	Ratio	Lower	Upper
112	100		
64	67.7	57.2	85.8
63	43.5	39.8	59.6



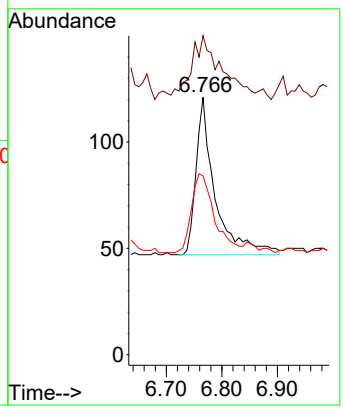


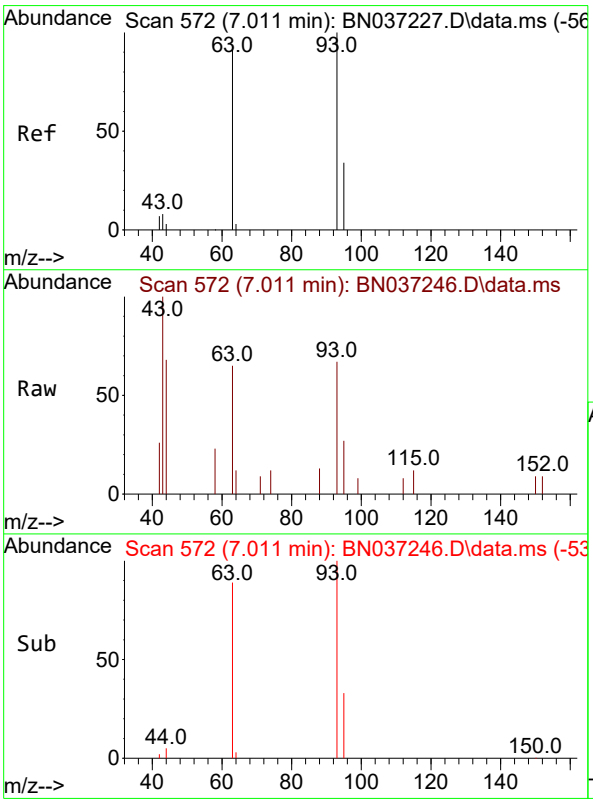
#5
Phenol-d6
Concen: 0.072 ng
RT: 6.766 min Scan# 5
Delta R.T. 0.007 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MS

Tgt Ion: 99 Resp: 177

Ion	Ratio	Lower	Upper
99	100		
42	54.2	36.2	54.4
71	59.3	42.4	63.6

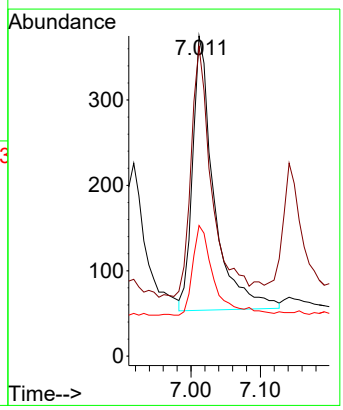


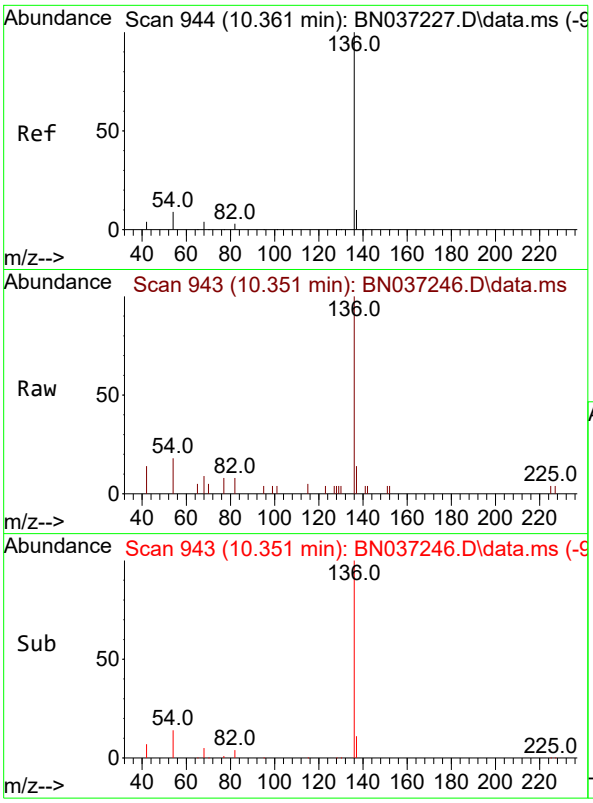


#6
bis(2-Chloroethyl)ether
Concen: 0.312 ng
RT: 7.011 min Scan# 572
Delta R.T. 0.000 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Tgt Ion: 93 Resp: 689

Ion	Ratio	Lower	Upper
93	100		
63	87.7	75.2	112.8
95	32.2	28.3	42.5



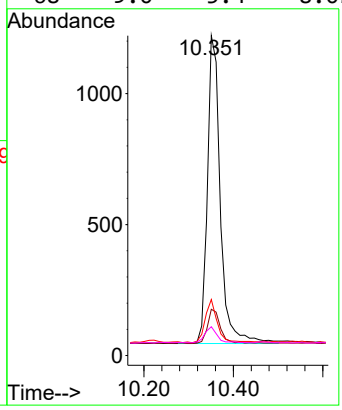


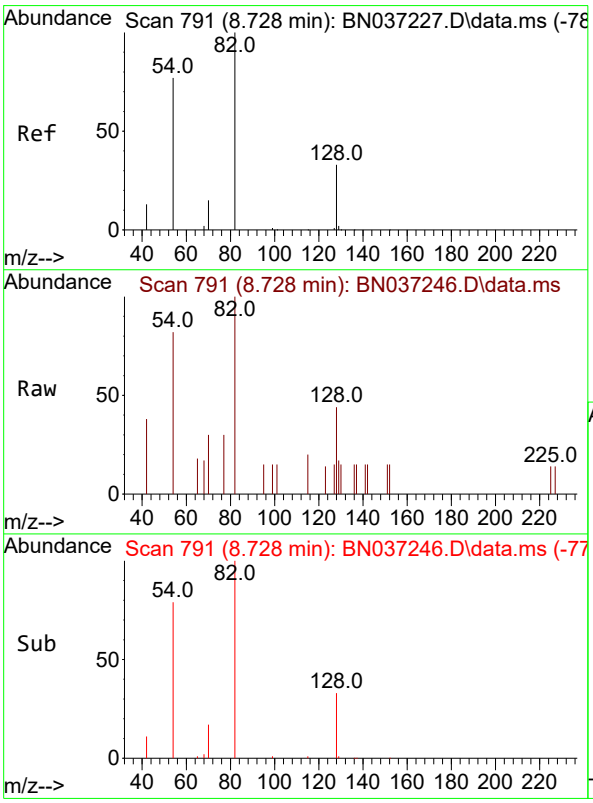
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MS

Tgt Ion:136 Resp: 2349

Ion	Ratio	Lower	Upper
136	100		
137	14.5	10.6	15.8
54	17.5	9.2	13.8#
68	9.0	5.4	8.0#

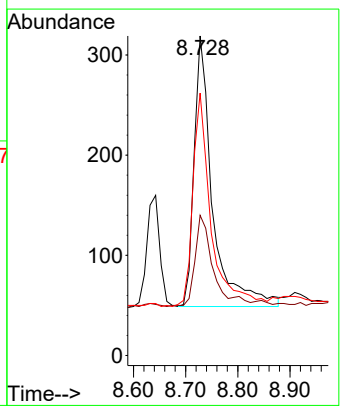


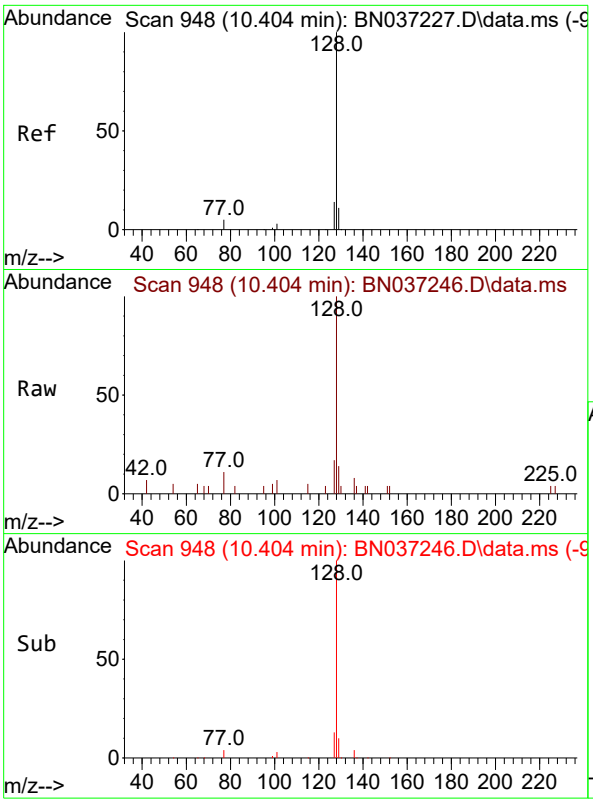


#8
Nitrobenzene-d5
Concen: 0.286 ng
RT: 8.728 min Scan# 791
Delta R.T. 0.000 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Tgt Ion: 82 Resp: 665

Ion	Ratio	Lower	Upper
82	100		
128	43.9	31.2	46.8
54	82.1	63.3	94.9



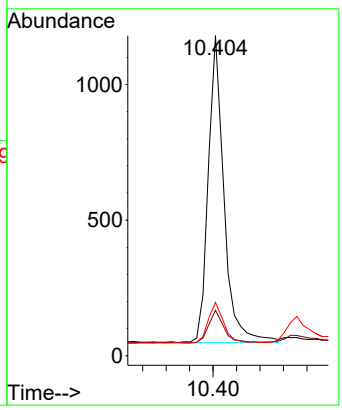


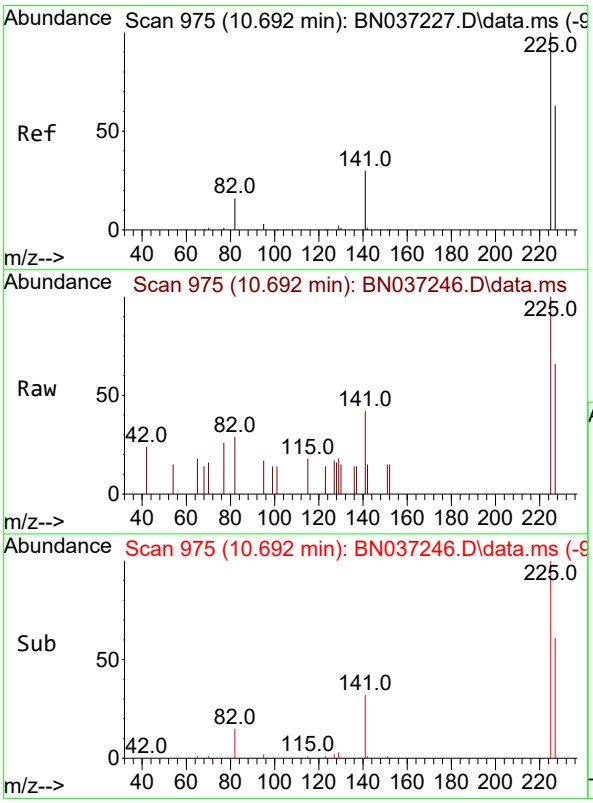
#9
Naphthalene
Concen: 0.310 ng
RT: 10.404 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MS

Tgt Ion:128 Resp: 2106

Ion	Ratio	Lower	Upper
128	100		
129	14.2	10.7	16.1
127	16.7	12.6	19.0

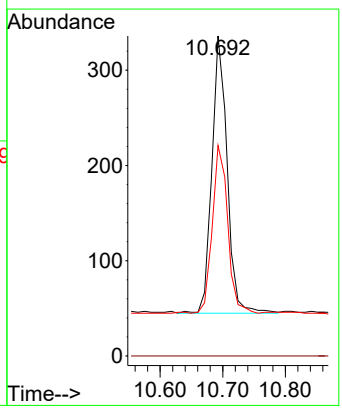


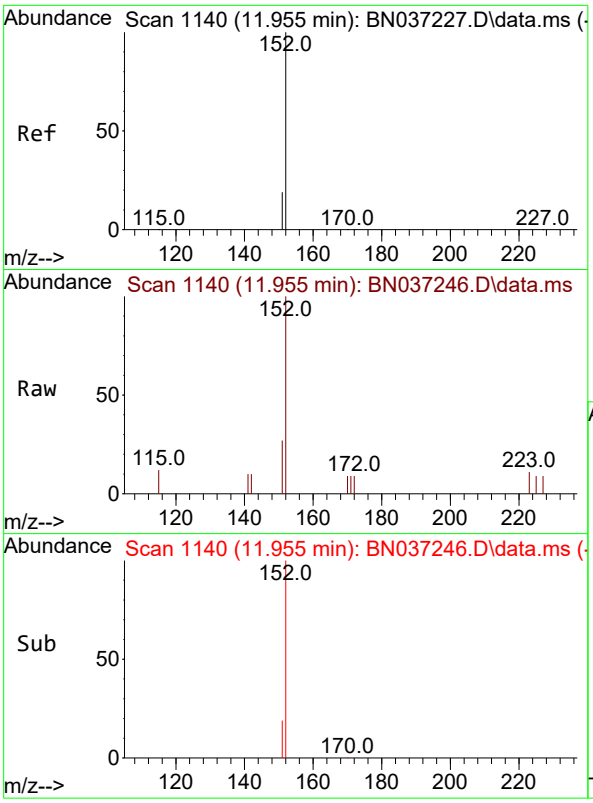


#10
Hexachlorobutadiene
Concen: 0.297 ng
RT: 10.692 min Scan# 975
Delta R.T. 0.000 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Tgt Ion:225 Resp: 492

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	61.0	49.2	73.8



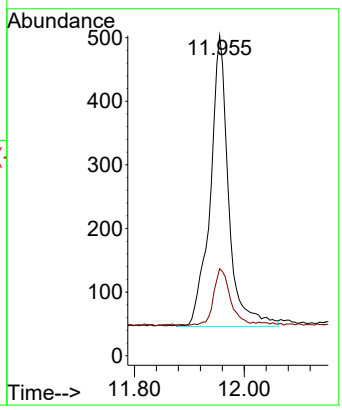


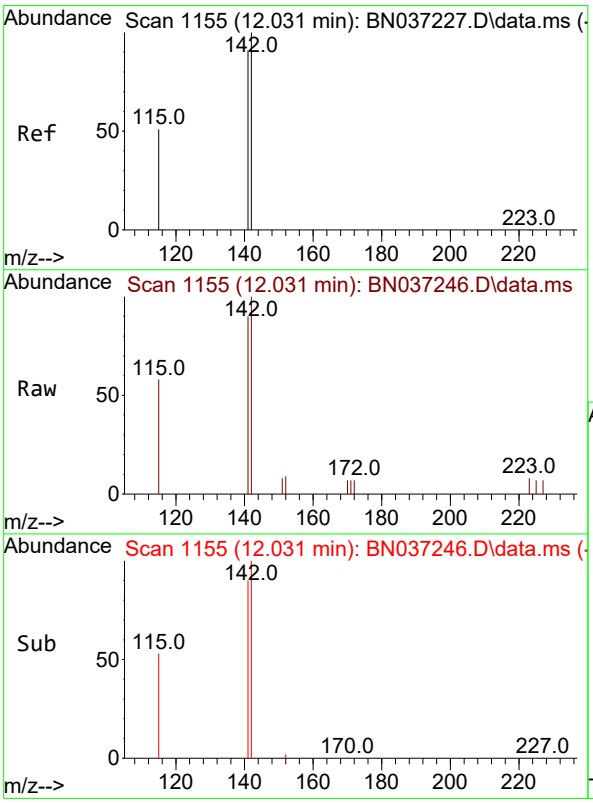
#11
2-Methylnaphthalene-d10
Concen: 0.337 ng
RT: 11.955 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MS

Tgt Ion:152 Resp: 1062

Ion	Ratio	Lower	Upper
152	100		
151	17.4	17.9	26.9#

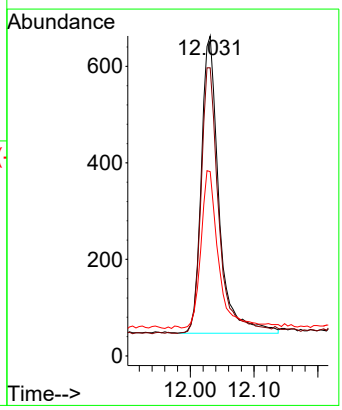


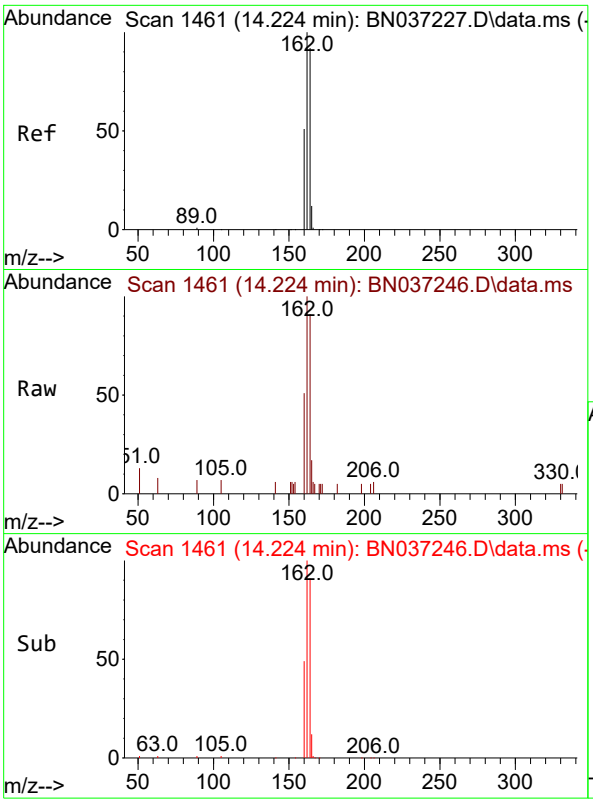


#12
2-Methylnaphthalene
Concen: 0.286 ng
RT: 12.031 min Scan# 1155
Delta R.T. 0.000 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Tgt Ion:142 Resp: 1184

Ion	Ratio	Lower	Upper
142	100		
141	90.0	73.0	109.6
115	57.6	43.3	64.9



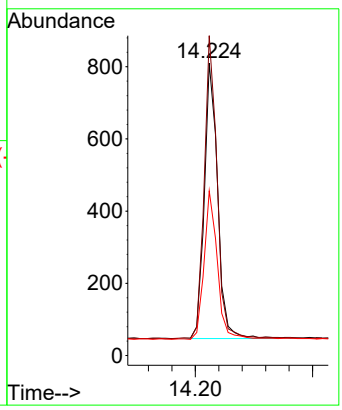


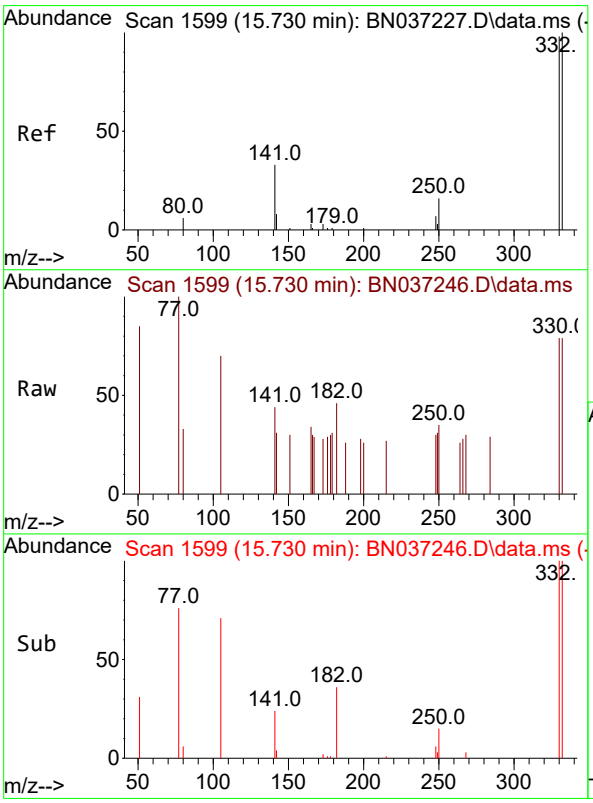
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MS

Tgt Ion:164 Resp: 1209

Ion	Ratio	Lower	Upper
164	100		
162	109.4	86.7	130.1
160	56.3	45.8	68.6

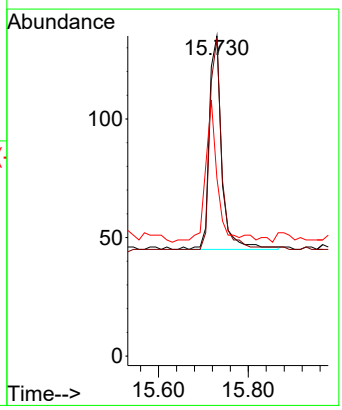


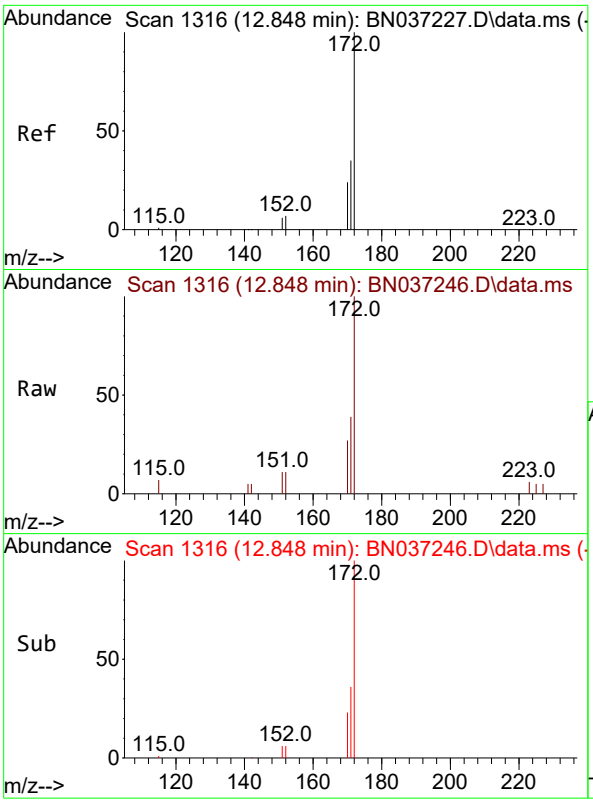


#14
2,4,6-Tribromophenol
Concen: 0.345 ng
RT: 15.730 min Scan# 1599
Delta R.T. 0.000 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Tgt Ion:330 Resp: 173

Ion	Ratio	Lower	Upper
330	100		
332	94.8	74.9	112.3
141	63.0	45.1	67.7



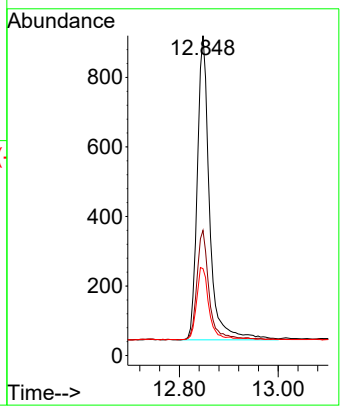


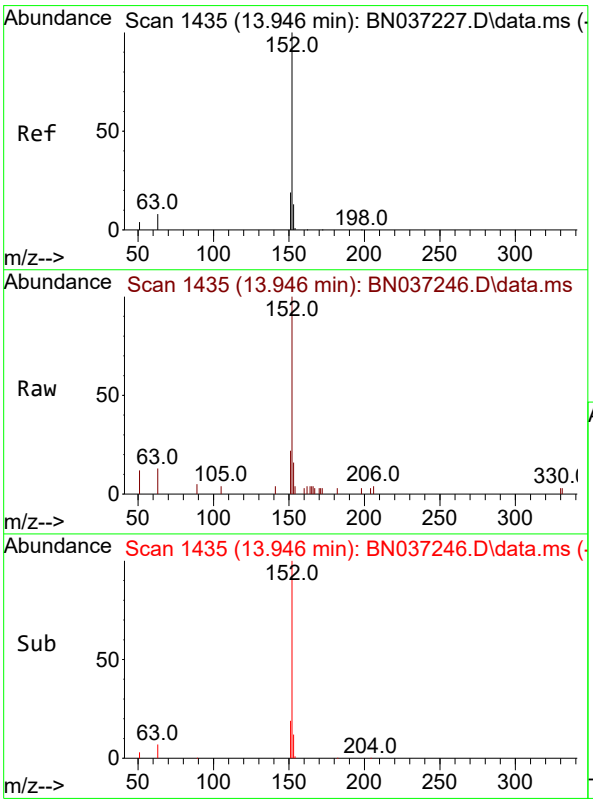
#15
2-Fluorobiphenyl
Concen: 0.296 ng
RT: 12.848 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MS

Tgt Ion:172 Resp: 1503

Ion	Ratio	Lower	Upper
172	100		
171	39.1	29.8	44.8
170	27.2	21.1	31.7

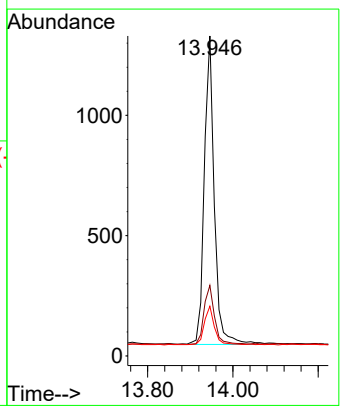


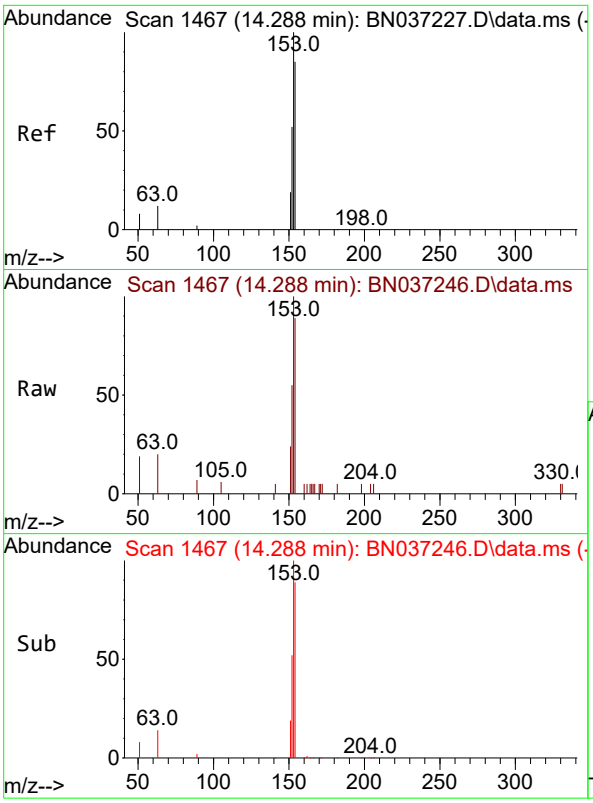


#16
Acenaphthylene
Concen: 0.353 ng
RT: 13.946 min Scan# 1435
Delta R.T. 0.000 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Tgt Ion:152 Resp: 2092

Ion	Ratio	Lower	Upper
152	100		
151	20.0	15.7	23.5
153	12.4	10.7	16.1



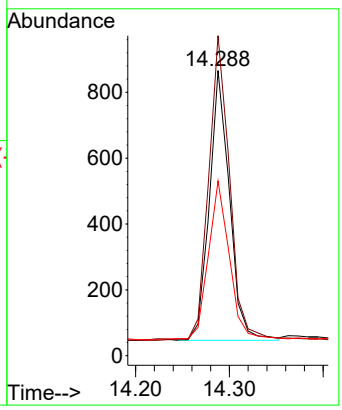


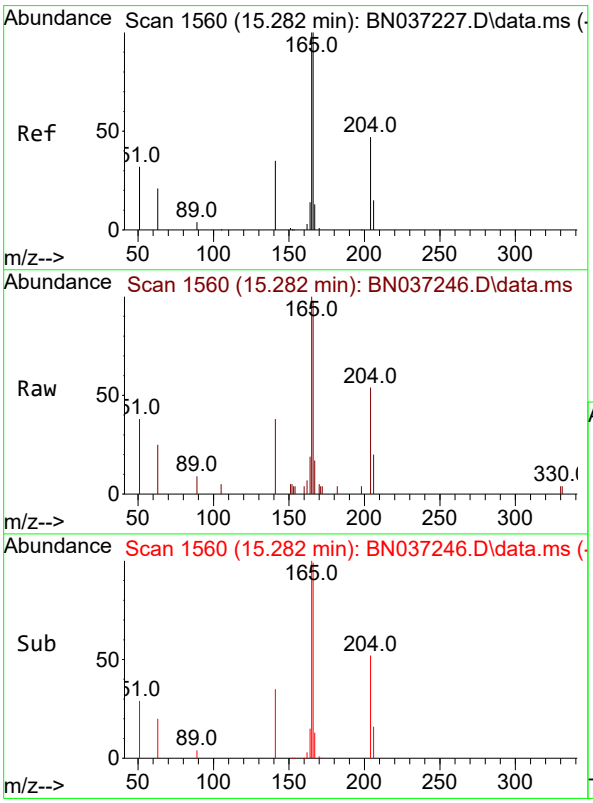
#17
Acenaphthene
Concen: 0.320 ng
RT: 14.288 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MS

Tgt Ion:154 Resp: 1223

Ion	Ratio	Lower	Upper
154	100		
153	118.6	94.6	141.8
152	61.7	49.6	74.4

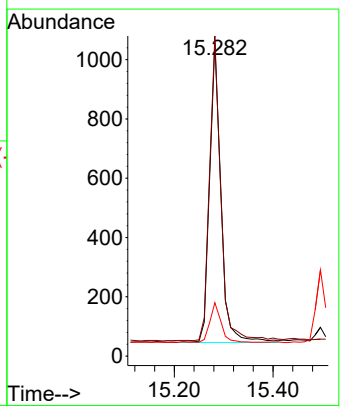


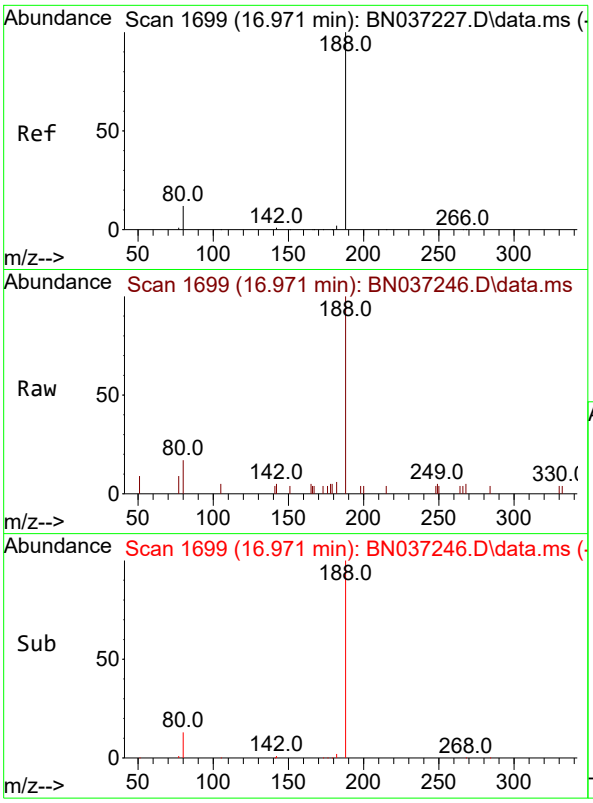


#18
Fluorene
Concen: 0.329 ng
RT: 15.282 min Scan# 1560
Delta R.T. 0.000 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Tgt Ion:166 Resp: 1616

Ion	Ratio	Lower	Upper
166	100		
165	101.5	79.8	119.6
167	12.6	10.8	16.2



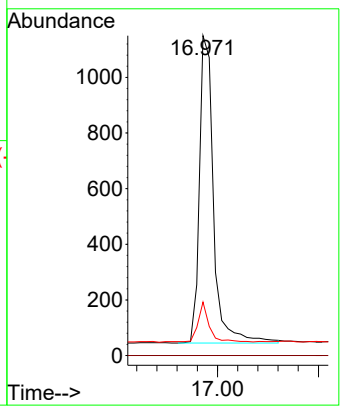


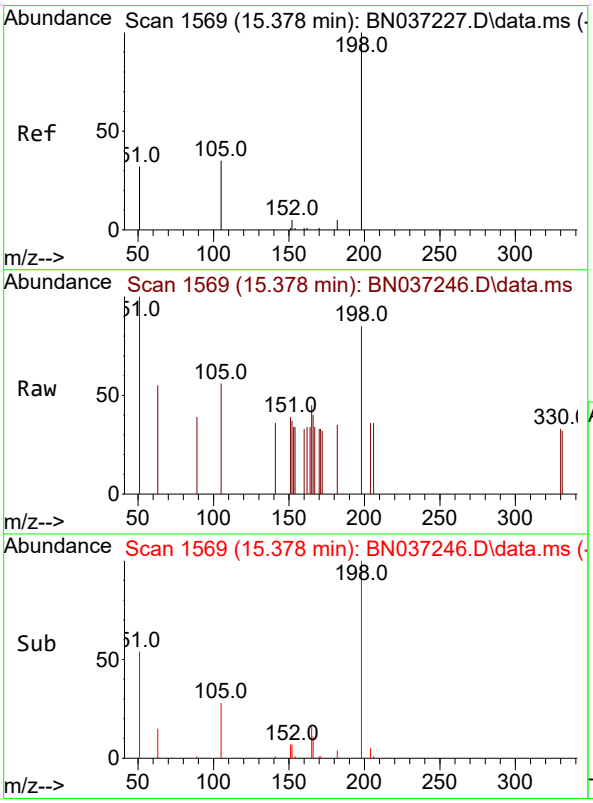
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MS

Tgt Ion:188 Resp: 2152

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	16.7	12.2	18.4

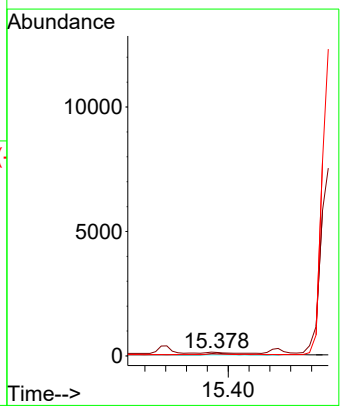


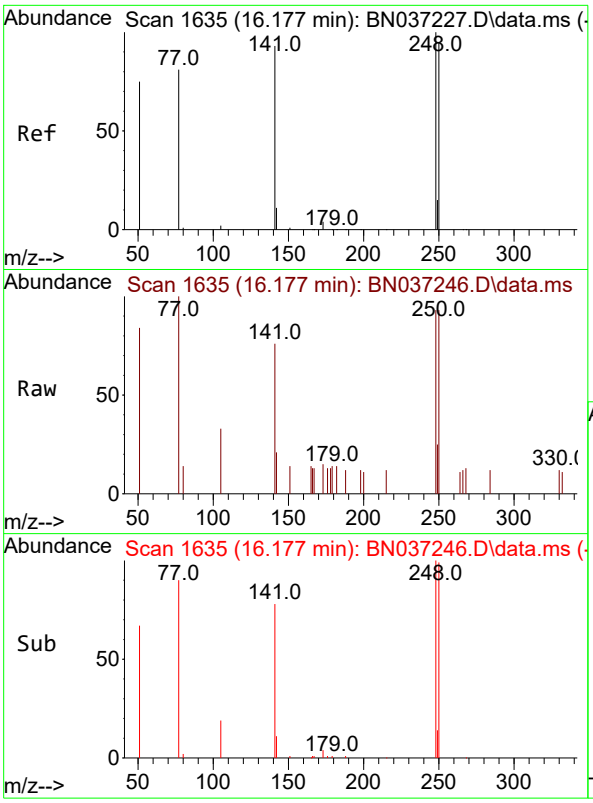


#20
4,6-Dinitro-2-methylphenol
Concen: 0.438 ng
RT: 15.378 min Scan# 1569
Delta R.T. 0.000 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Tgt Ion:198 Resp: 182

Ion	Ratio	Lower	Upper
198	100		
51	117.6	111.2	166.8
105	66.4	54.0	81.0



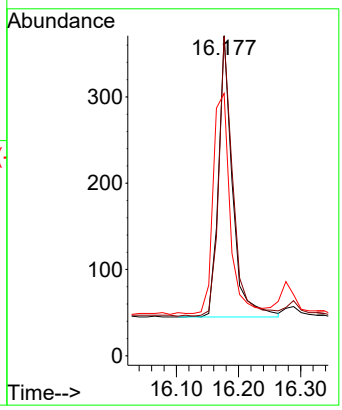


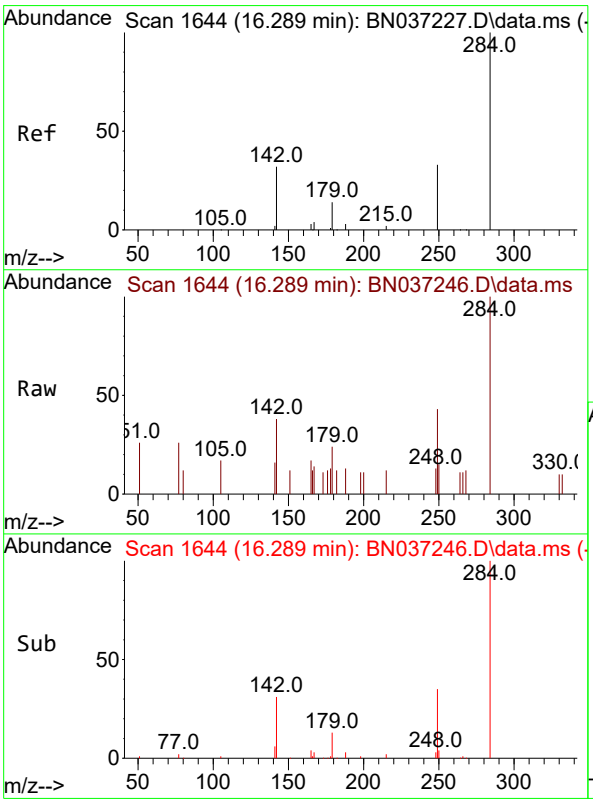
#21
4-Bromophenyl-phenylether
Concen: 0.361 ng
RT: 16.177 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MS

Tgt Ion:248 Resp: 506

Ion	Ratio	Lower	Upper
248	100		
250	99.7	76.8	115.2
141	81.9	75.6	113.4

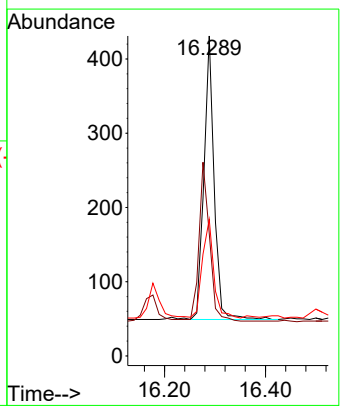


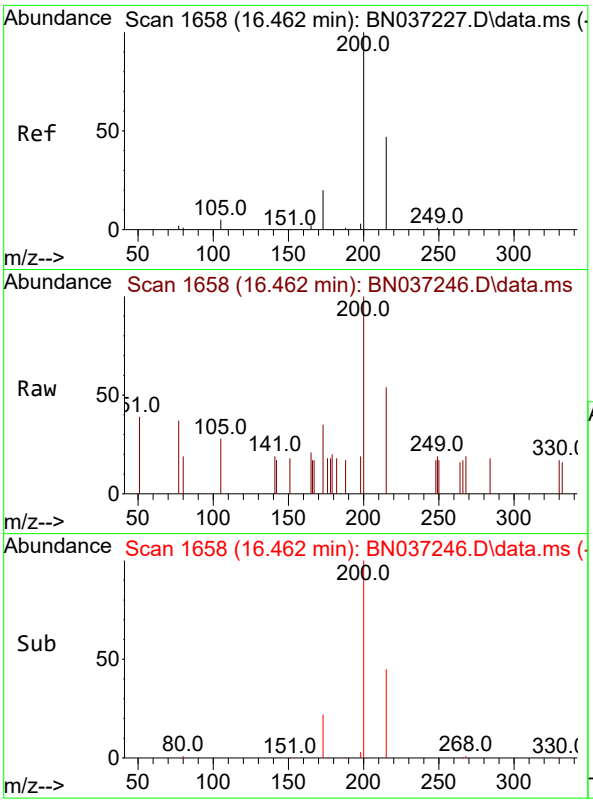


#22
Hexachlorobenzene
Concen: 0.332 ng
RT: 16.289 min Scan# 1644
Delta R.T. 0.000 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Tgt Ion:284 Resp: 539

Ion	Ratio	Lower	Upper
284	100		
142	57.1	43.8	65.6
249	38.8	28.4	42.6



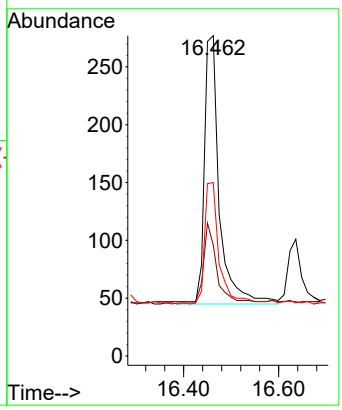


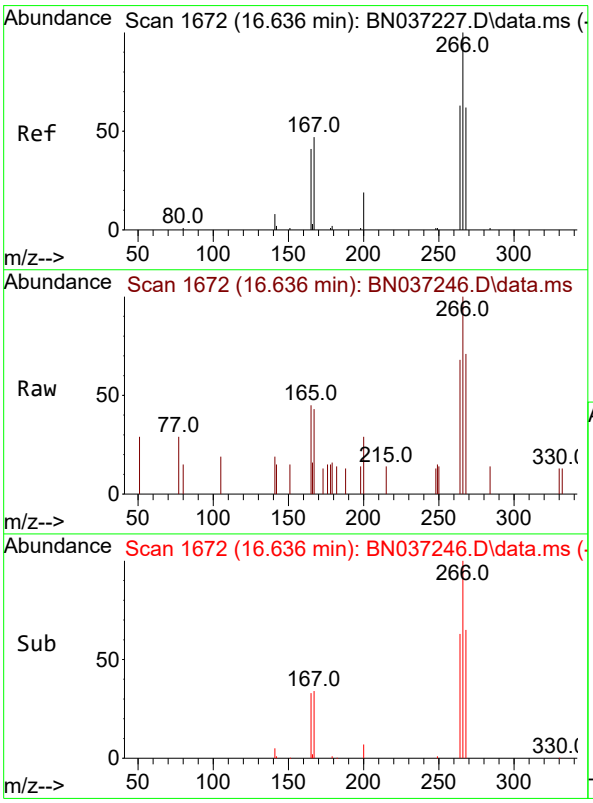
#23
Atrazine
Concen: 0.406 ng
RT: 16.462 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MS

Tgt Ion:200 Resp: 508

Ion	Ratio	Lower	Upper
200	100		
173	34.7	25.1	37.7
215	54.2	43.7	65.5

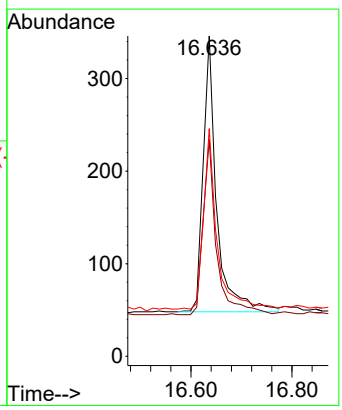


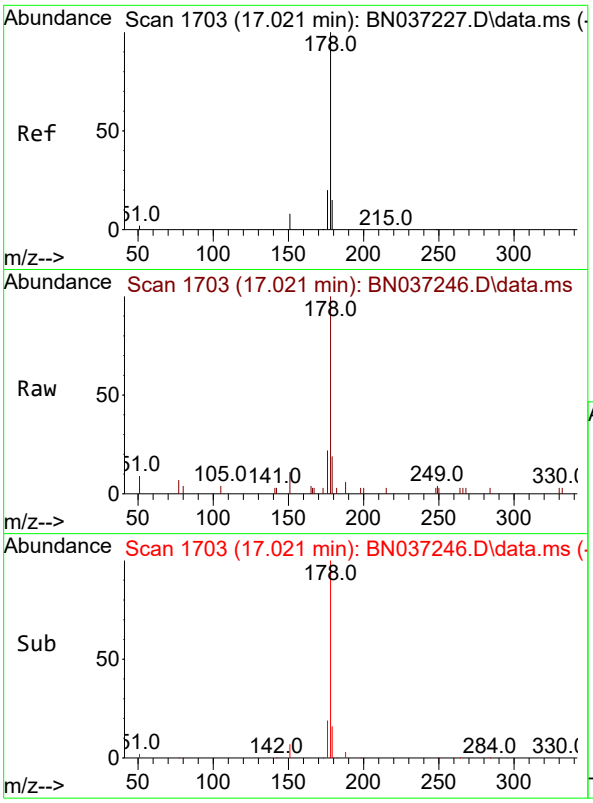


#24
Pentachlorophenol
Concen: 0.698 ng
RT: 16.636 min Scan# 1672
Delta R.T. 0.000 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Tgt Ion:266 Resp: 556

Ion	Ratio	Lower	Upper
266	100		
264	62.8	49.2	73.8
268	65.5	53.4	80.2



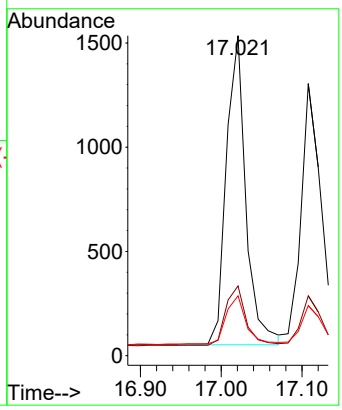


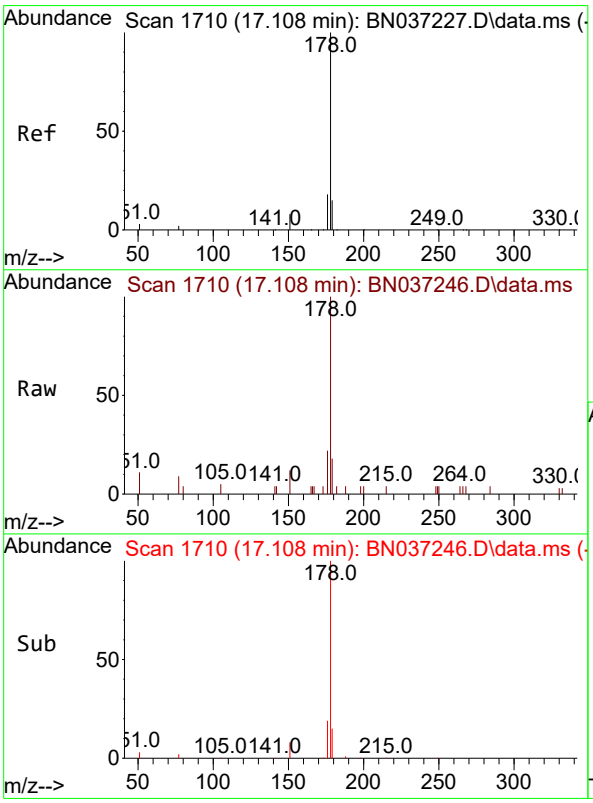
#25
Phenanthrene
Concen: 0.366 ng
RT: 17.021 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MS

Tgt Ion:178 Resp: 2496

Ion	Ratio	Lower	Upper
178	100		
176	19.8	16.3	24.5
179	16.6	12.6	18.8

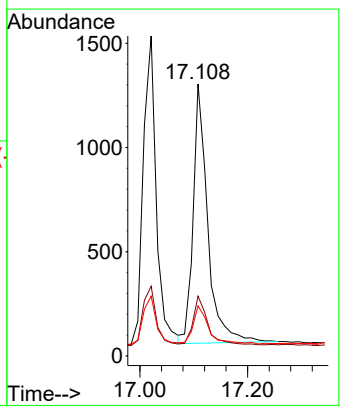


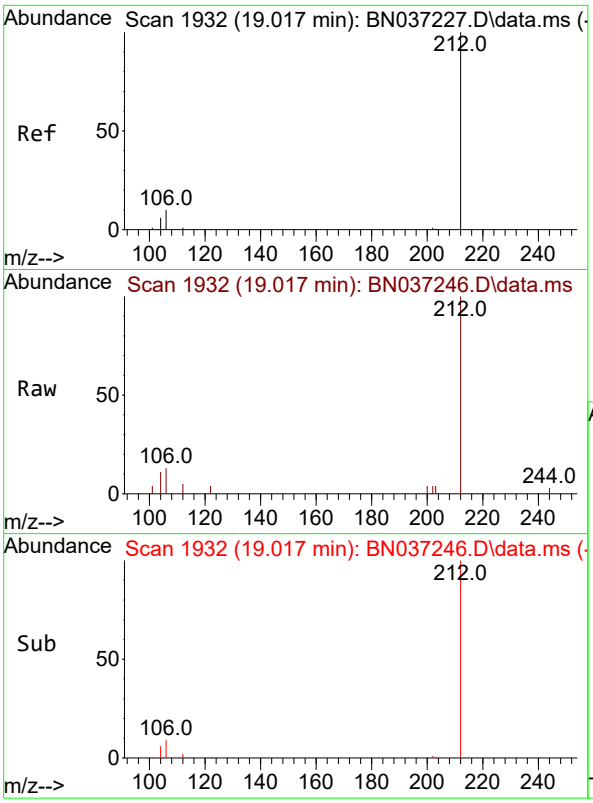


#26
Anthracene
Concen: 0.375 ng
RT: 17.108 min Scan# 1710
Delta R.T. 0.000 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Tgt Ion:178 Resp: 2343

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.1	22.7
179	15.0	12.4	18.6



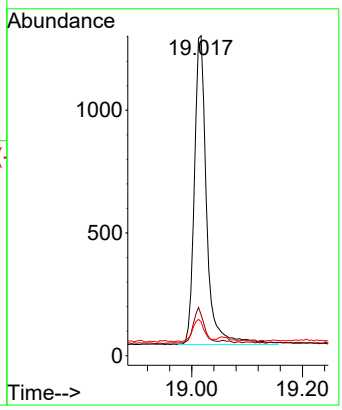


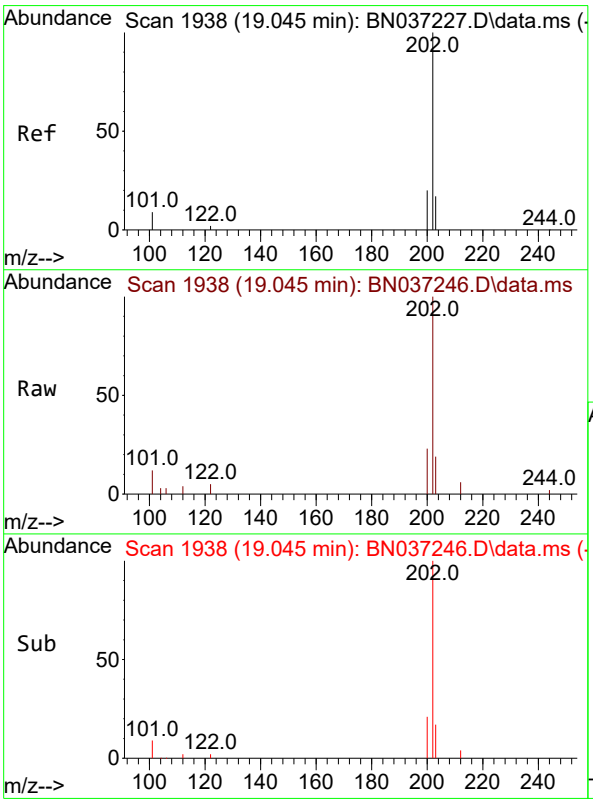
#27
Fluoranthene-d10
Concen: 0.345 ng
RT: 19.017 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MS

Tgt Ion:212 Resp: 1941

Ion	Ratio	Lower	Upper
212	100		
106	9.9	9.3	13.9
104	6.5	5.7	8.5

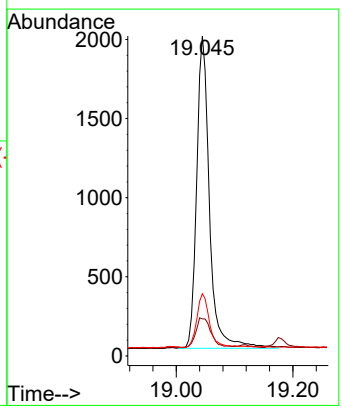


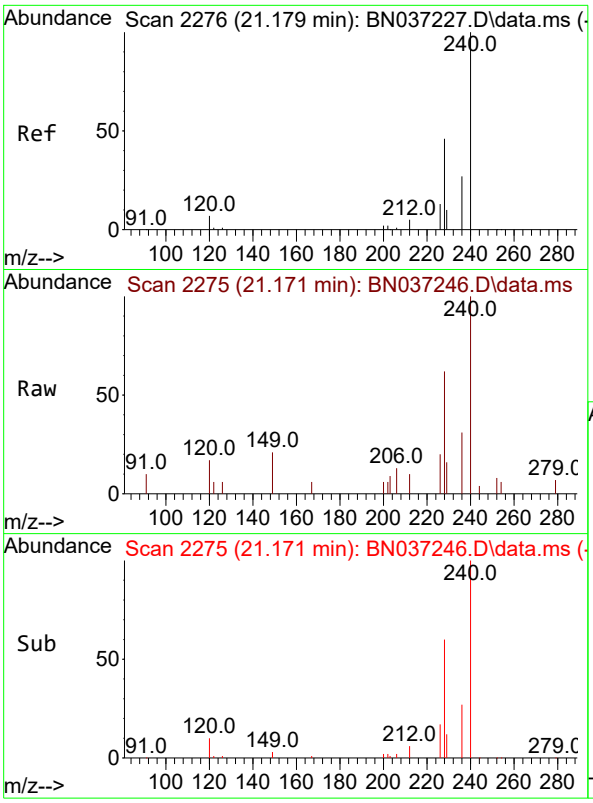


#28
Fluoranthene
Concen: 0.377 ng
RT: 19.045 min Scan# 1938
Delta R.T. 0.000 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Tgt Ion:202 Resp: 3009

Ion	Ratio	Lower	Upper
202	100		
101	12.1	7.1	10.7#
203	17.5	13.0	19.6



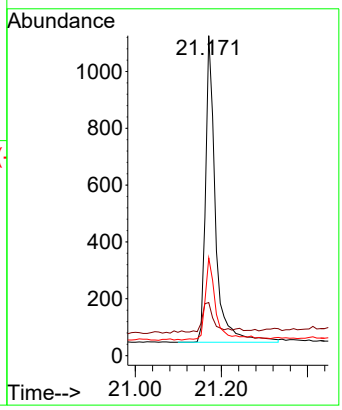


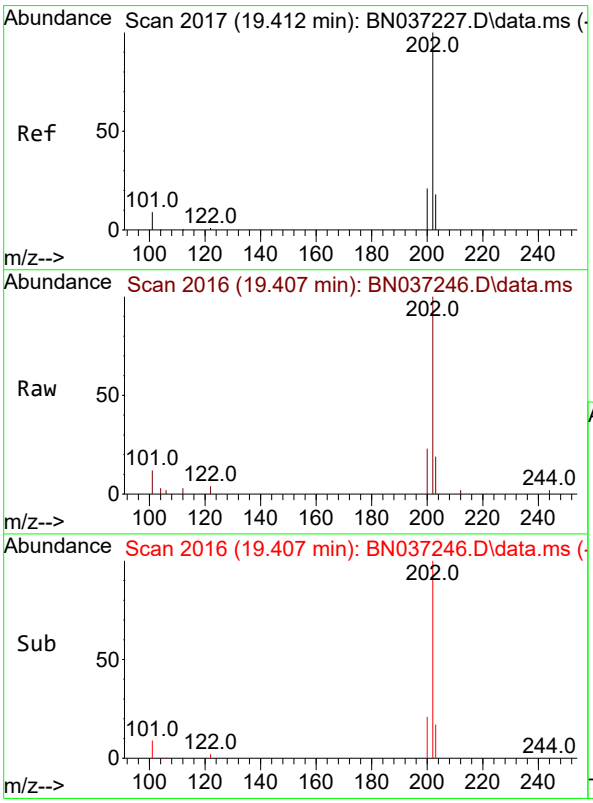
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.171 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MS

Tgt Ion:240 Resp: 1734

Ion	Ratio	Lower	Upper
240	100		
120	16.6	11.3	16.9
236	30.6	24.4	36.6

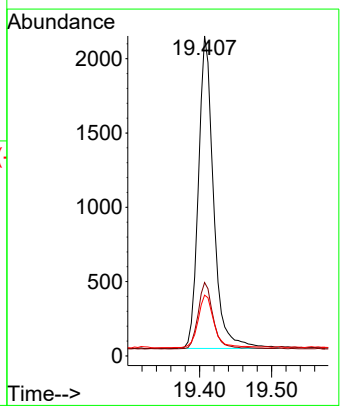


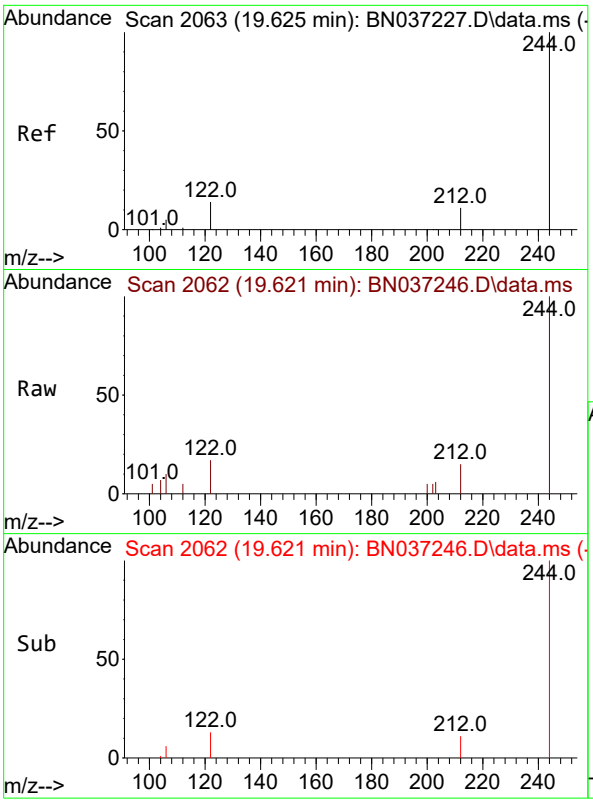


#30
Pyrene
Concen: 0.377 ng
RT: 19.407 min Scan# 2016
Delta R.T. -0.005 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Tgt Ion:202 Resp: 3076

Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.2	25.8
203	17.8	14.3	21.5



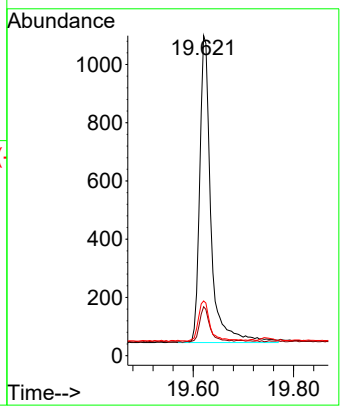


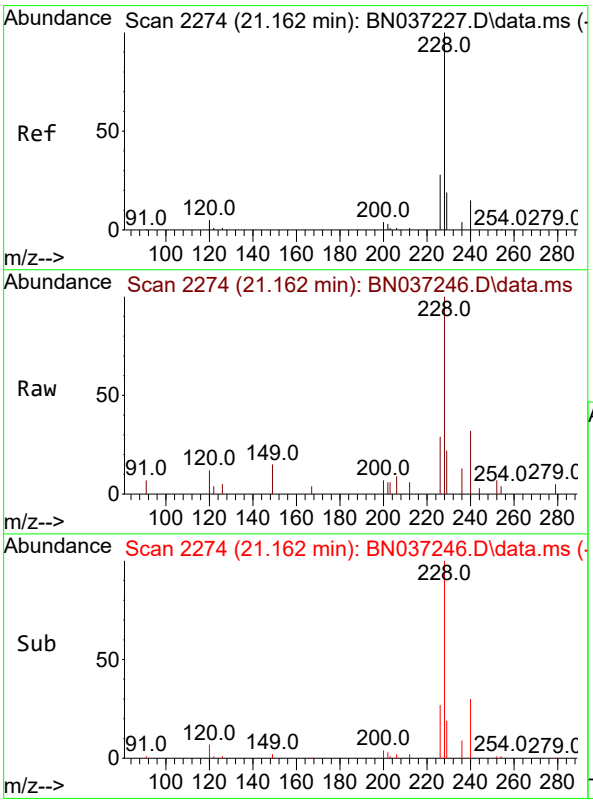
#31
Terphenyl-d14
Concen: 0.419 ng
RT: 19.621 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MS

Tgt Ion:244 Resp: 1642

Ion	Ratio	Lower	Upper
244	100		
212	15.3	12.2	18.2
122	17.1	14.3	21.5

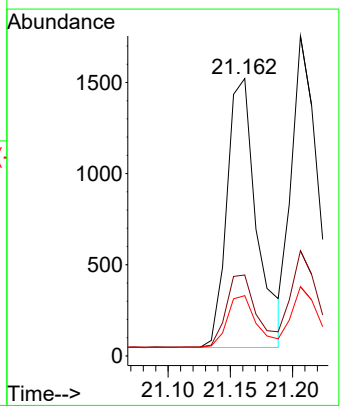


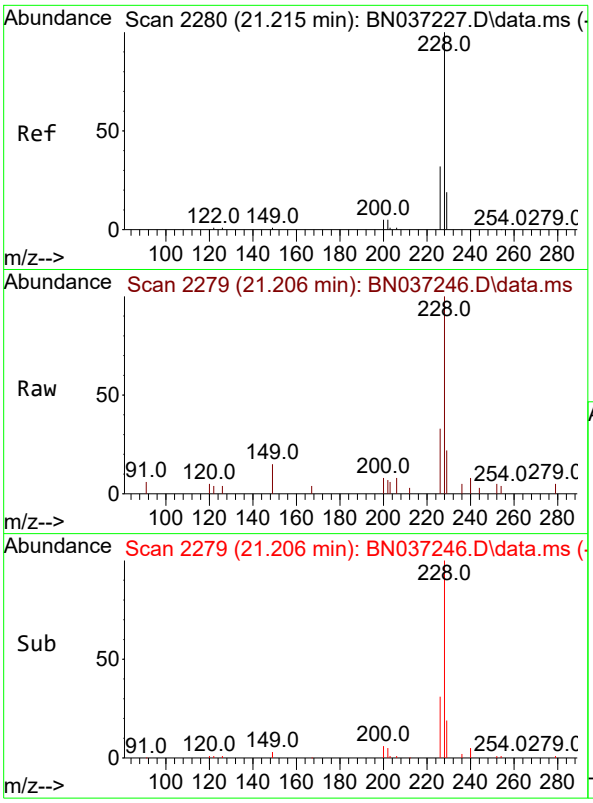


#32
Benzo(a)anthracene
Concen: 0.421 ng
RT: 21.162 min Scan# 2274
Delta R.T. 0.000 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Tgt Ion:228 Resp: 2465

Ion	Ratio	Lower	Upper
228	100		
226	29.2	23.8	35.8
229	21.7	17.0	25.4



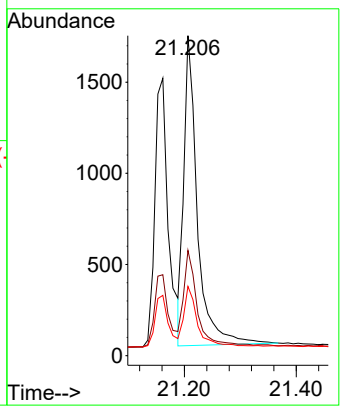


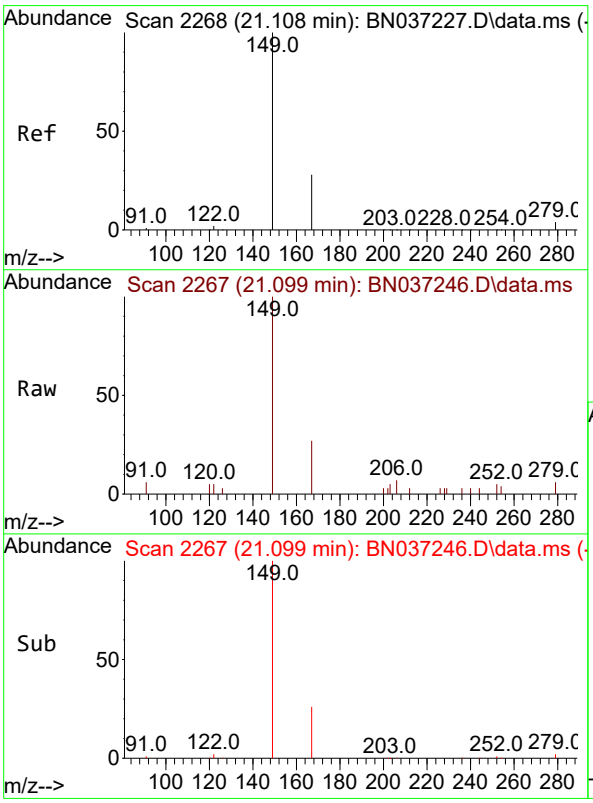
#33
Chrysene
Concen: 0.393 ng
RT: 21.206 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MS

Tgt Ion:228 Resp: 2864

Ion	Ratio	Lower	Upper
228	100		
226	32.9	25.8	38.6
229	21.7	17.0	25.4

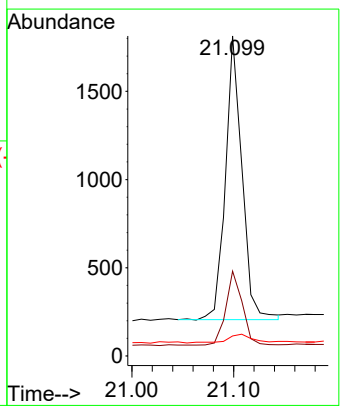


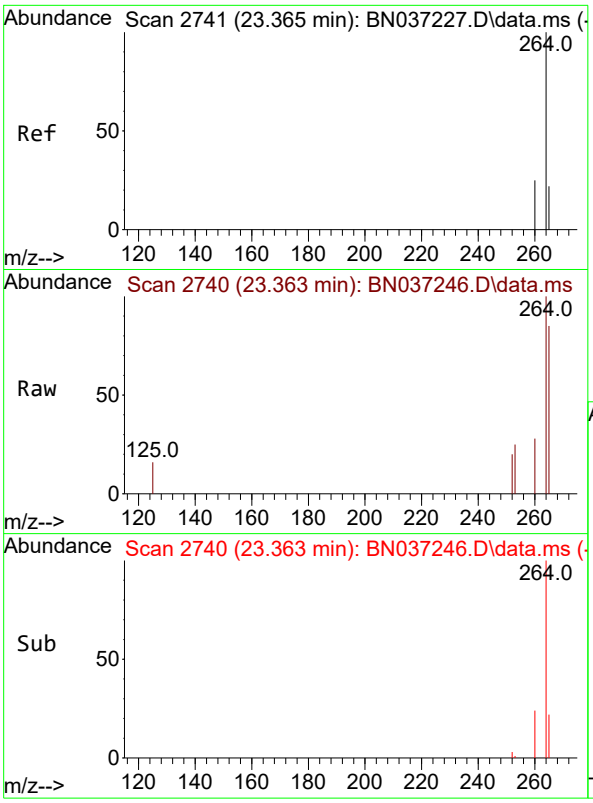


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.417 ng
RT: 21.099 min Scan# 2267
Delta R.T. -0.009 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Tgt Ion:149 Resp: 1818

Ion	Ratio	Lower	Upper
149	100		
167	25.7	21.3	31.9
279	5.3	3.3	4.9#



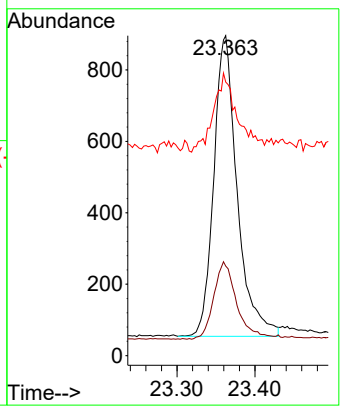


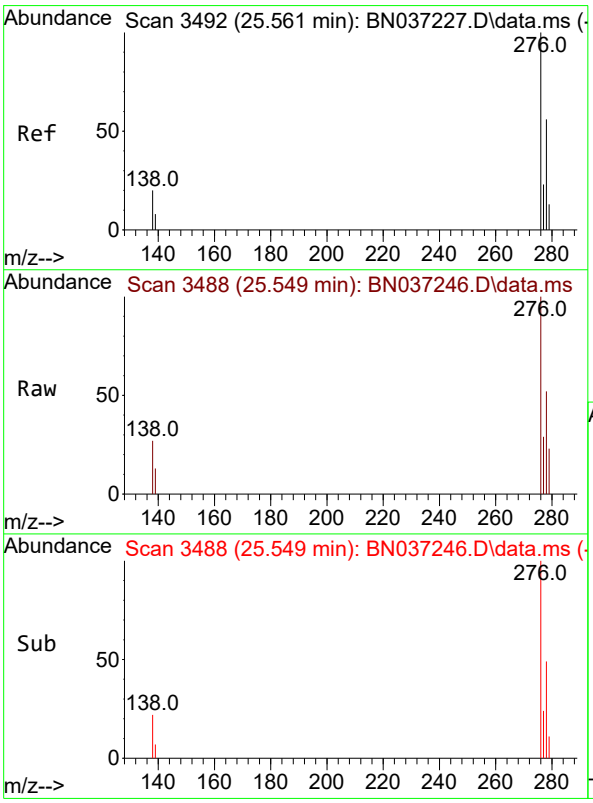
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.363 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MS

Tgt Ion:264 Resp: 1757

Ion	Ratio	Lower	Upper
264	100		
260	28.0	22.8	34.2
265	85.5	66.4	99.6

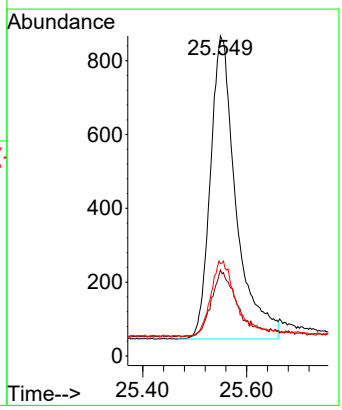


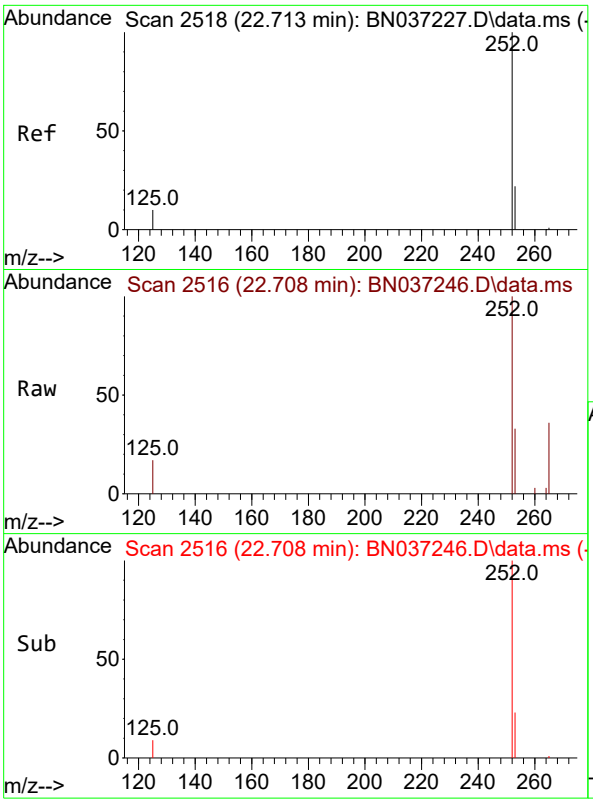


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.397 ng
RT: 25.549 min Scan# 3488
Delta R.T. -0.012 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Tgt Ion:276 Resp: 2816

Ion	Ratio	Lower	Upper
276	100		
138	20.7	16.8	25.2
277	25.1	19.5	29.3



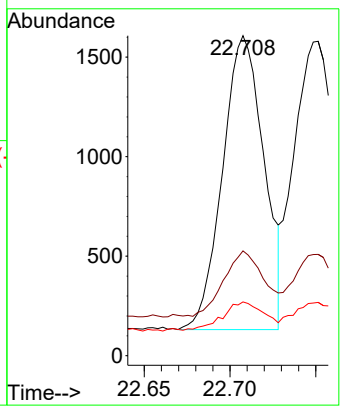


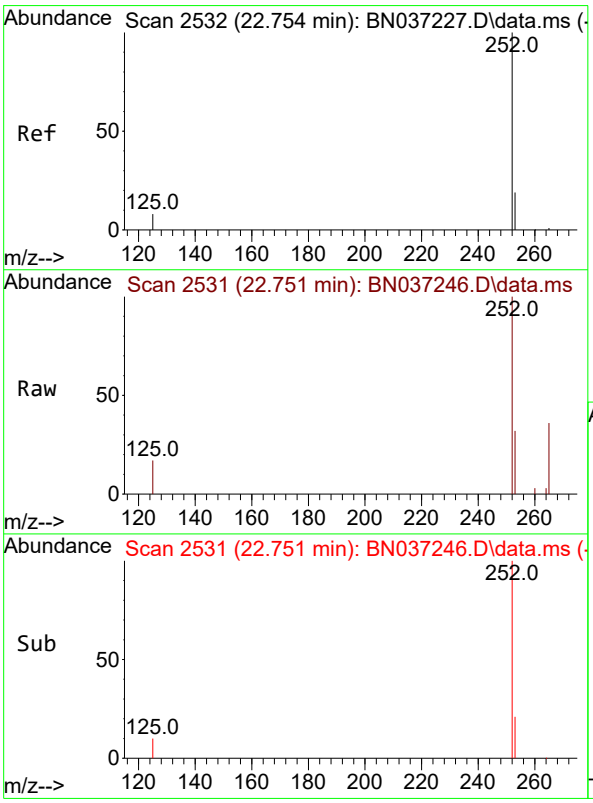
#37
Benzo(b)fluoranthene
Concen: 0.386 ng
RT: 22.708 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MS

Tgt Ion:252 Resp: 2482

Ion	Ratio	Lower	Upper
252	100		
253	32.8	24.9	37.3
125	16.8	12.9	19.3

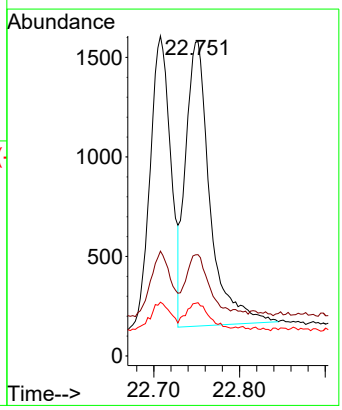


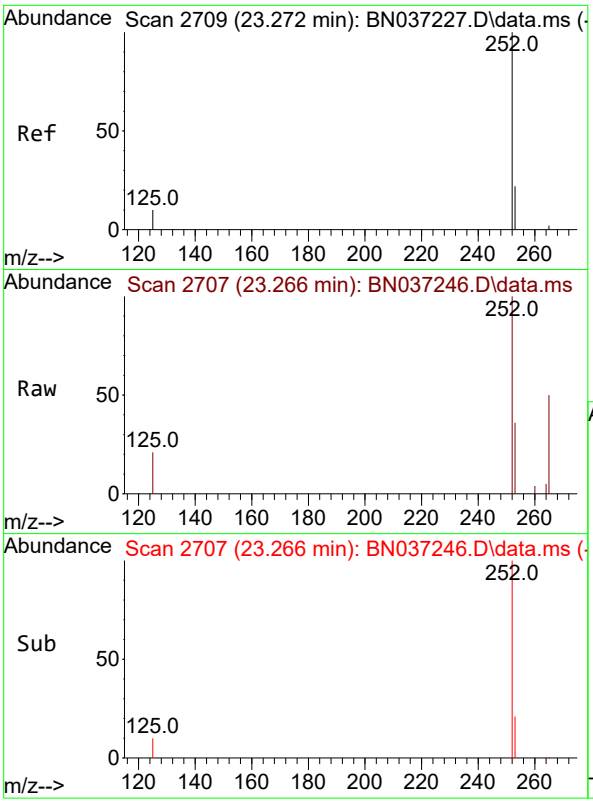


#38
Benzo(k)fluoranthene
Concen: 0.381 ng
RT: 22.751 min Scan# 2531
Delta R.T. -0.003 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Tgt Ion:252 Resp: 2823

Ion	Ratio	Lower	Upper
252	100		
253	32.2	24.6	37.0
125	17.0	13.4	20.2



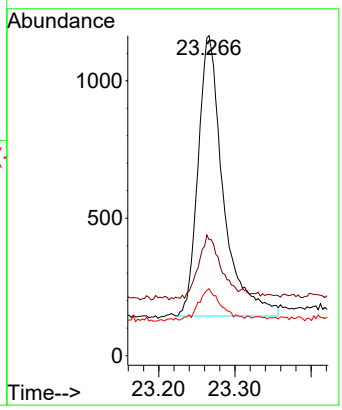


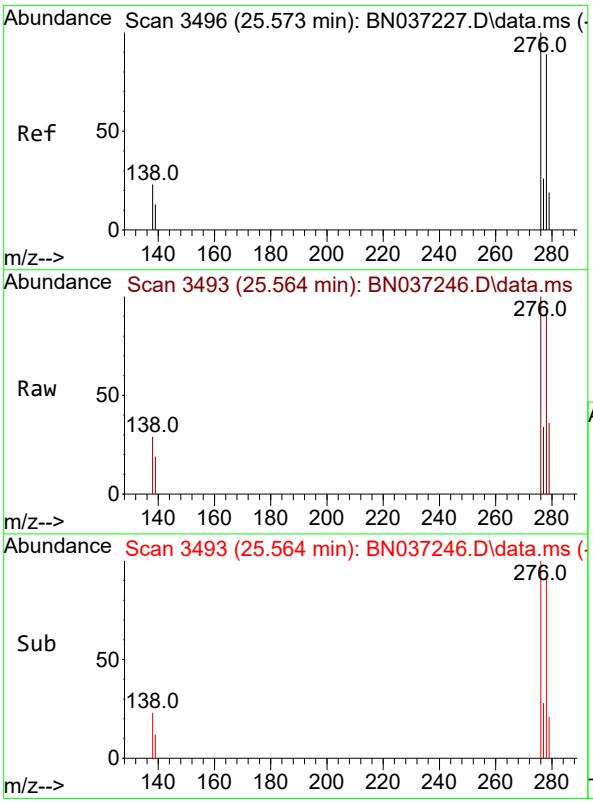
#39
Benzo(a)pyrene
Concen: 0.405 ng
RT: 23.266 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MS

Tgt Ion:252 Resp: 2344

Ion	Ratio	Lower	Upper
252	100		
253	36.3	29.4	44.2
125	21.0	16.2	24.2

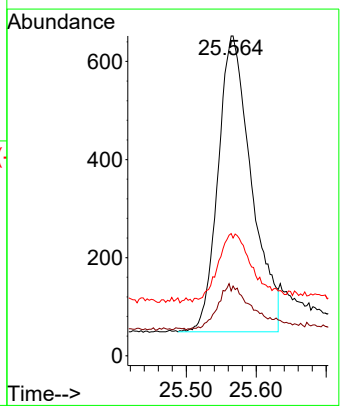


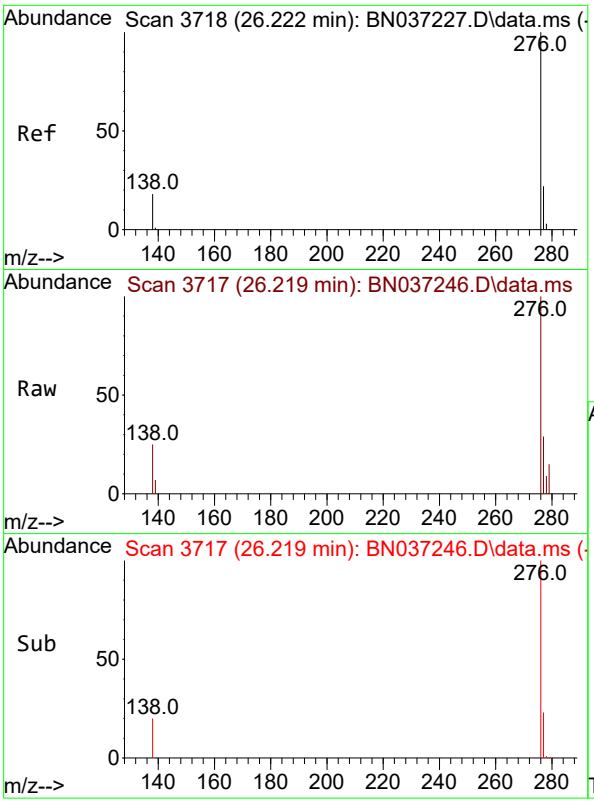


#40
Dibenzo(a,h)anthracene
Concen: 0.371 ng
RT: 25.564 min Scan# 3493
Delta R.T. -0.009 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Tgt Ion:278 Resp: 2000

Ion	Ratio	Lower	Upper
278	100		
139	20.2	17.8	26.6
279	38.2	31.3	46.9



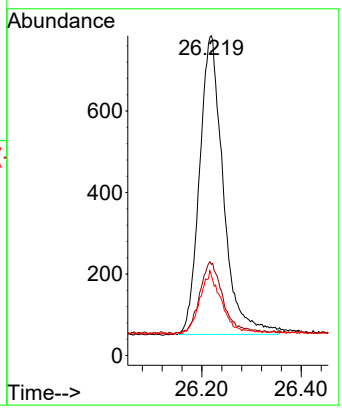


#41
Benzo(g,h,i)perylene
Concen: 0.369 ng
RT: 26.219 min Scan# 3
Delta R.T. -0.003 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MS

Tgt Ion:276 Resp: 2427

Ion	Ratio	Lower	Upper
276	100		
277	28.5	22.0	33.0
138	25.1	18.4	27.6



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037247.D
Acq On : 14 Jun 2025 04:08
Operator : RC/JU
Sample : Q2299-04MSD
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MSD

Quant Time: Jun 14 05:09:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration

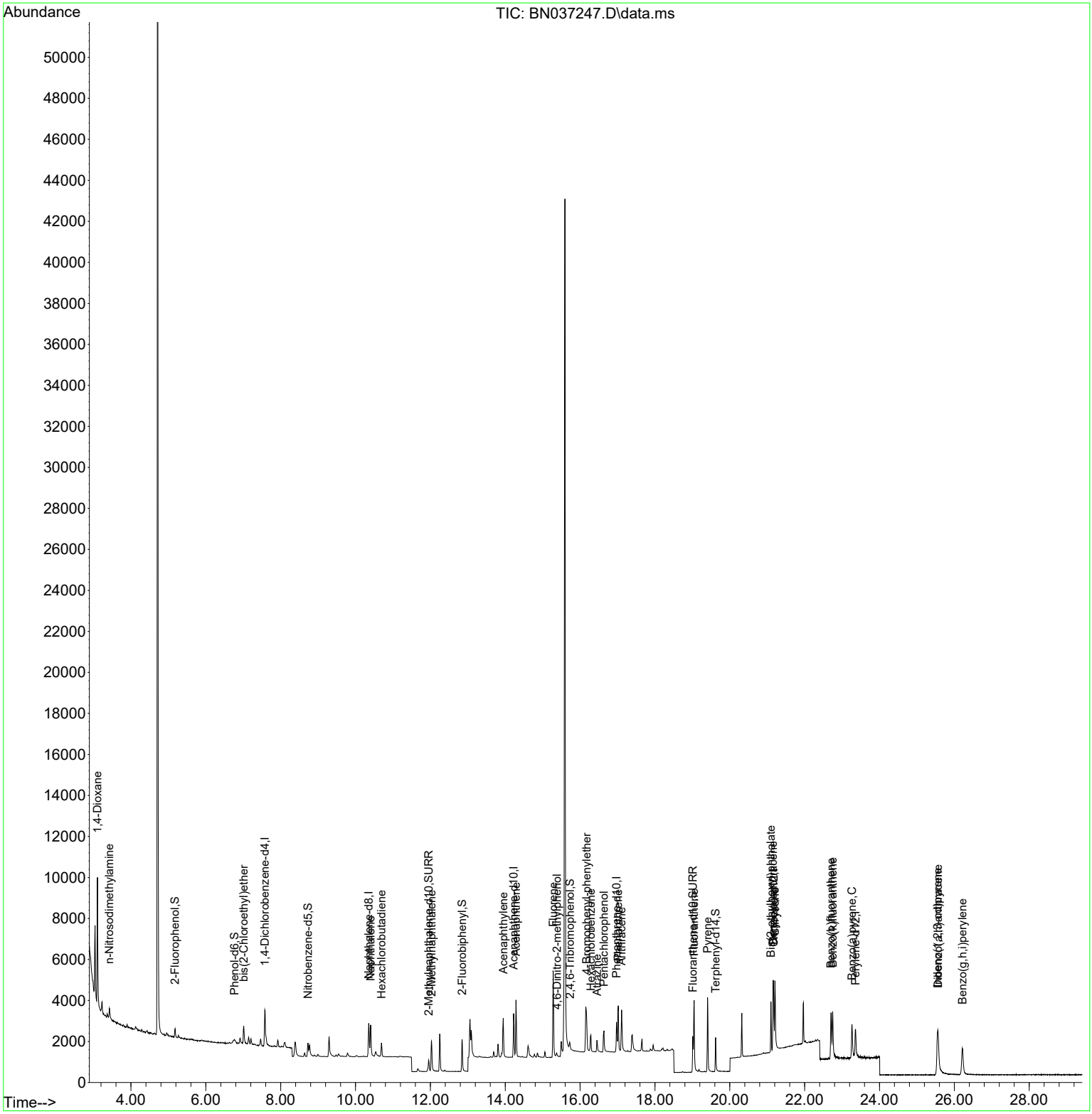
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	888	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	2241	0.400	ng	#-0.01
13) Acenaphthene-d10	14.224	164	1184	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	2199	0.400	ng	0.00
29) Chrysene-d12	21.170	240	1956	0.400	ng	0.00
35) Perylene-d12	23.357	264	1969	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	288	0.132	ng	0.00
5) Phenol-d6	6.766	99	162	0.070	ng	0.00
8) Nitrobenzene-d5	8.728	82	616	0.278	ng	0.00
11) 2-Methylnaphthalene-d10	11.955	152	1075	0.357	ng	0.00
14) 2,4,6-Tribromophenol	15.730	330	182	0.370	ng	0.00
15) 2-Fluorobiphenyl	12.848	172	1504	0.302	ng	0.00
27) Fluoranthene-d10	19.012	212	2166	0.376	ng	0.00
31) Terphenyl-d14	19.621	244	1884	0.426	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.104	88	2832	2.325	ng	# 87
3) n-Nitrosodimethylamine	3.422	42	510	0.184	ng	# 96
6) bis(2-Chloroethyl)ether	7.011	93	668	0.324	ng	98
9) Naphthalene	10.404	128	2101	0.324	ng	97
10) Hexachlorobutadiene	10.692	225	485	0.307	ng	# 95
12) 2-Methylnaphthalene	12.031	142	1206	0.306	ng	98
16) Acenaphthylene	13.946	152	2106	0.363	ng	99
17) Acenaphthene	14.288	154	1244	0.332	ng	98
18) Fluorene	15.282	166	1681	0.349	ng	99
20) 4,6-Dinitro-2-methylph...	15.378	198	206	0.473	ng	86
21) 4-Bromophenyl-phenylether	16.177	248	538	0.375	ng	89
22) Hexachlorobenzene	16.288	284	573	0.345	ng	93
23) Atrazine	16.450	200	567	0.444	ng	92
24) Pentachlorophenol	16.636	266	614	0.754	ng	97
25) Phenanthrene	17.021	178	2705	0.388	ng	99
26) Anthracene	17.108	178	2547	0.399	ng	98
28) Fluoranthene	19.045	202	3333	0.408	ng	# 95
30) Pyrene	19.407	202	3474	0.378	ng	99
32) Benzo(a)anthracene	21.153	228	2751	0.417	ng	99
33) Chrysene	21.206	228	3522	0.428	ng	100
34) Bis(2-ethylhexyl)phtha...	21.099	149	2078	0.422	ng	99
36) Indeno(1,2,3-cd)pyrene	25.549	276	3380	0.426	ng	99
37) Benzo(b)fluoranthene	22.705	252	3013	0.418	ng	99
38) Benzo(k)fluoranthene	22.749	252	3339	0.402	ng	98
39) Benzo(a)pyrene	23.266	252	2791	0.431	ng	96
40) Dibenzo(a,h)anthracene	25.564	278	2637	0.437	ng	95
41) Benzo(g,h,i)perylene	26.216	276	2894	0.393	ng	99

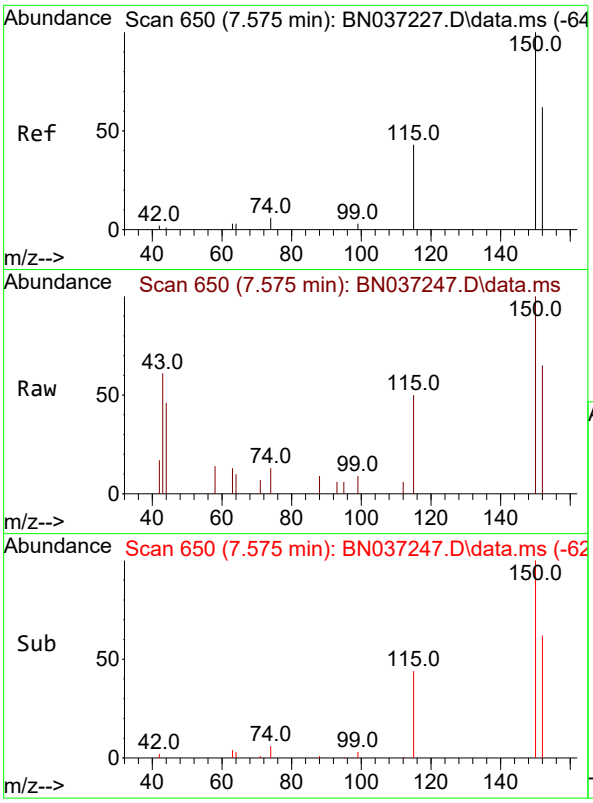
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037247.D
Acq On : 14 Jun 2025 04:08
Operator : RC/JU
Sample : Q2299-04MSD
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MSD

Quant Time: Jun 14 05:09:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration



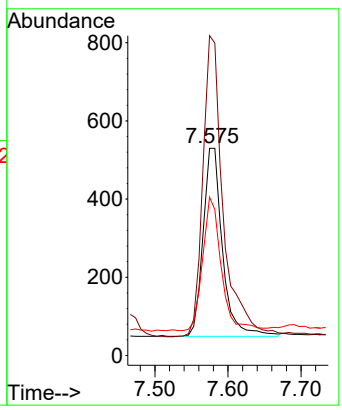


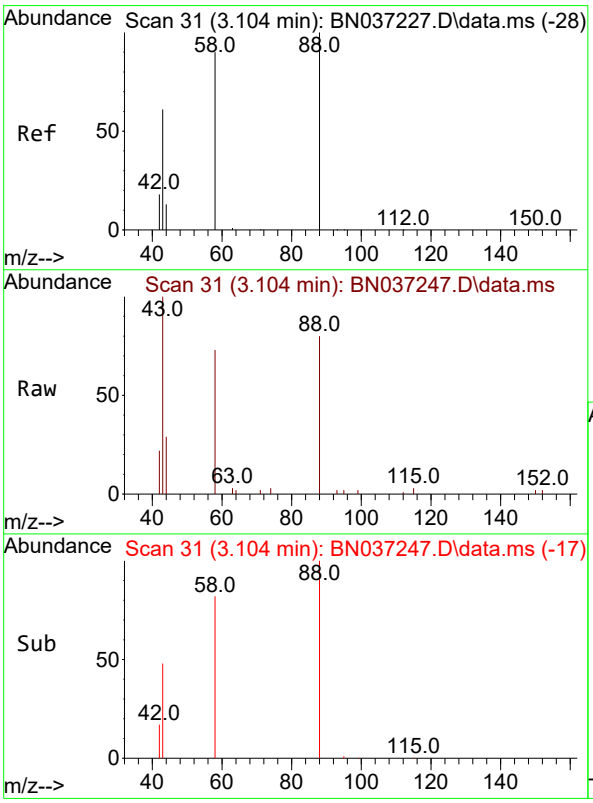
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MSD

Tgt Ion:152 Resp: 888

Ion	Ratio	Lower	Upper
152	100		
150	154.3	125.2	187.8
115	76.4	58.4	87.6

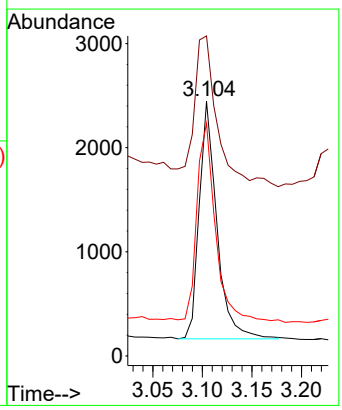


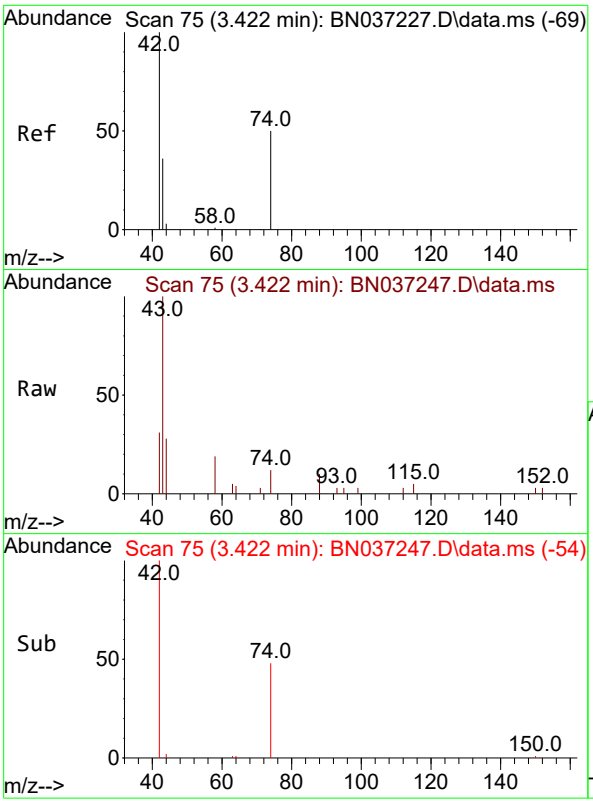


#2
1,4-Dioxane
Concen: 2.325 ng
RT: 3.104 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Tgt Ion: 88 Resp: 2832

Ion	Ratio	Lower	Upper
88	100		
43	83.5	52.6	79.0#
58	85.5	73.5	110.3



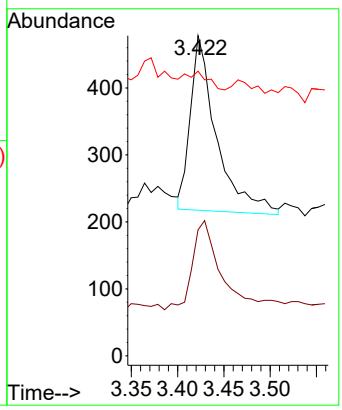


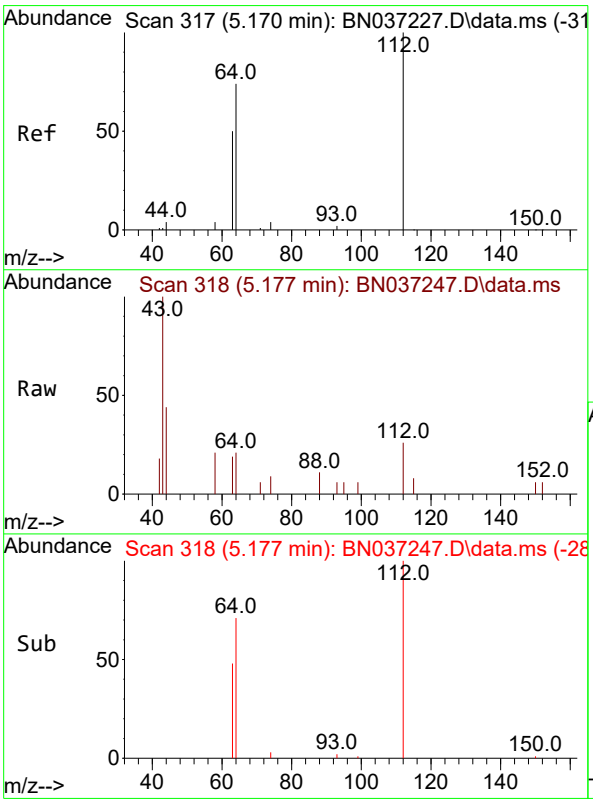
#3
n-Nitrosodimethylamine
Concen: 0.184 ng
RT: 3.422 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MSD

Tgt Ion: 42 Resp: 510

Ion	Ratio	Lower	Upper
42	100		
74	58.2	44.6	66.8
44	0.0	3.5	5.3#

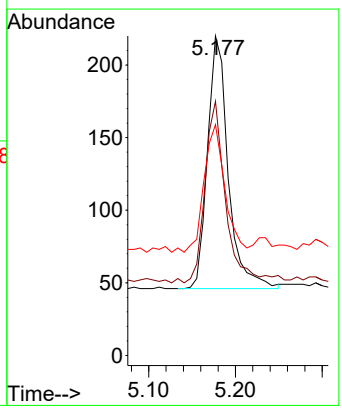


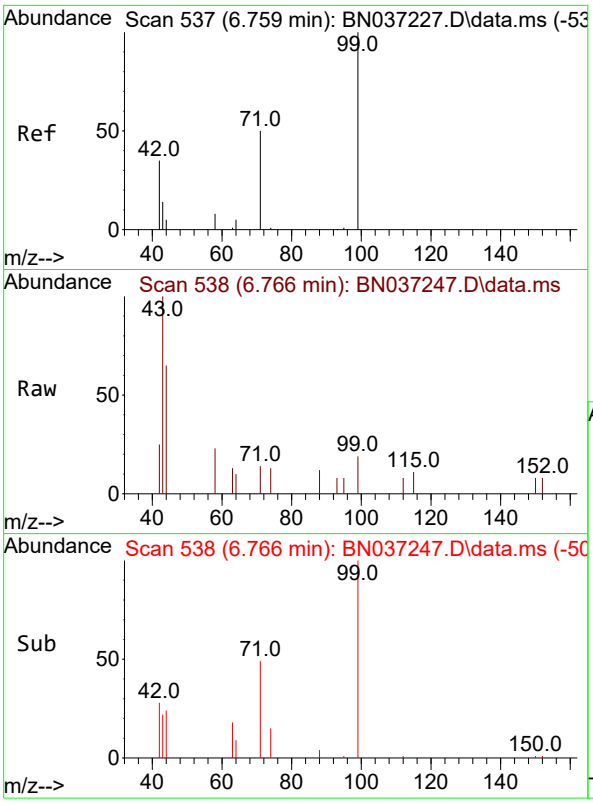


#4
2-Fluorophenol
Concen: 0.132 ng
RT: 5.177 min Scan# 318
Delta R.T. 0.007 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Tgt Ion:112 Resp: 288

Ion	Ratio	Lower	Upper
112	100		
64	73.3	57.2	85.8
63	50.7	39.8	59.6



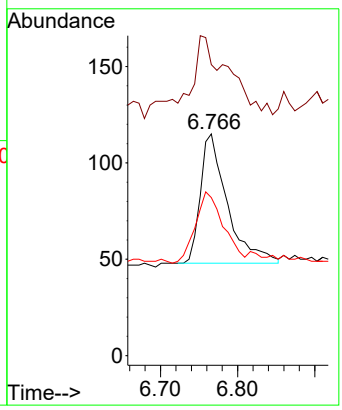


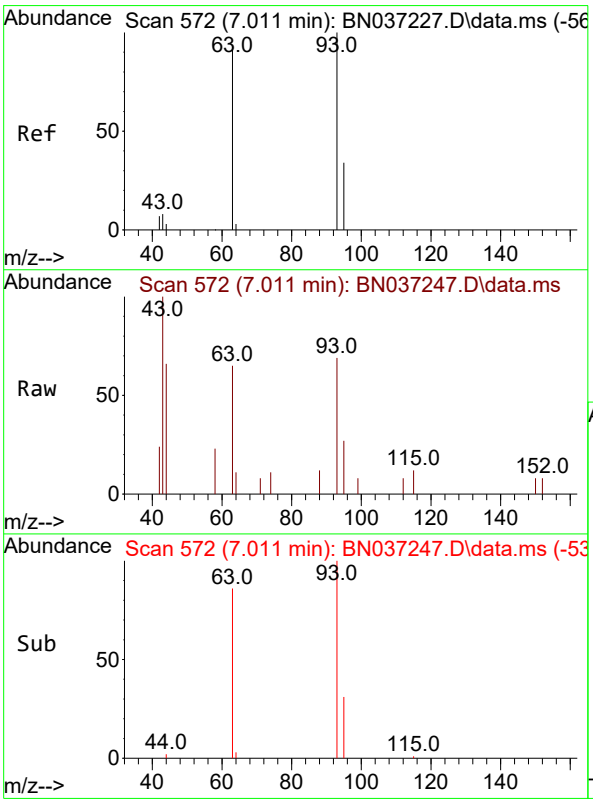
#5
Phenol-d6
Concen: 0.070 ng
RT: 6.766 min Scan# 5
Delta R.T. 0.007 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MSD

Tgt Ion: 99 Resp: 162

Ion	Ratio	Lower	Upper
99	100		
42	62.3	36.2	54.4#
71	58.0	42.4	63.6

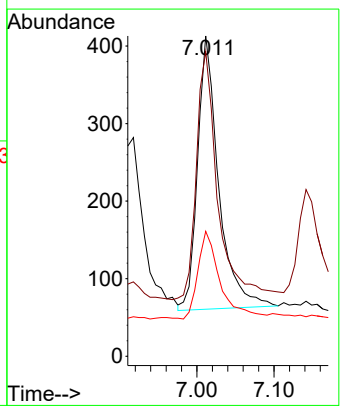


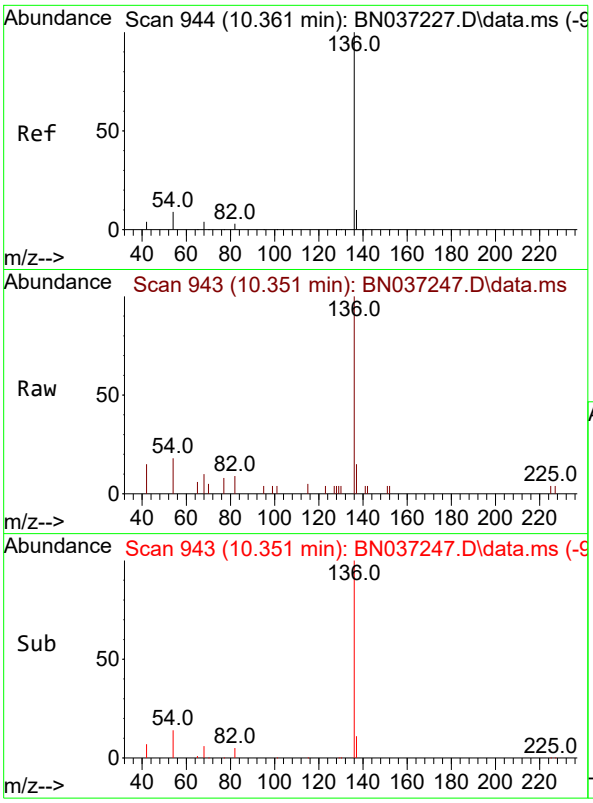


#6
bis(2-Chloroethyl)ether
Concen: 0.324 ng
RT: 7.011 min Scan# 572
Delta R.T. -0.000 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Tgt Ion: 93 Resp: 668

Ion	Ratio	Lower	Upper
93	100		
63	93.1	75.2	112.8
95	33.1	28.3	42.5



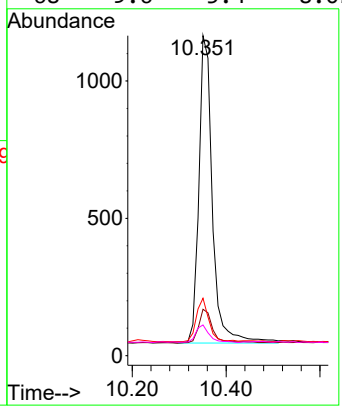


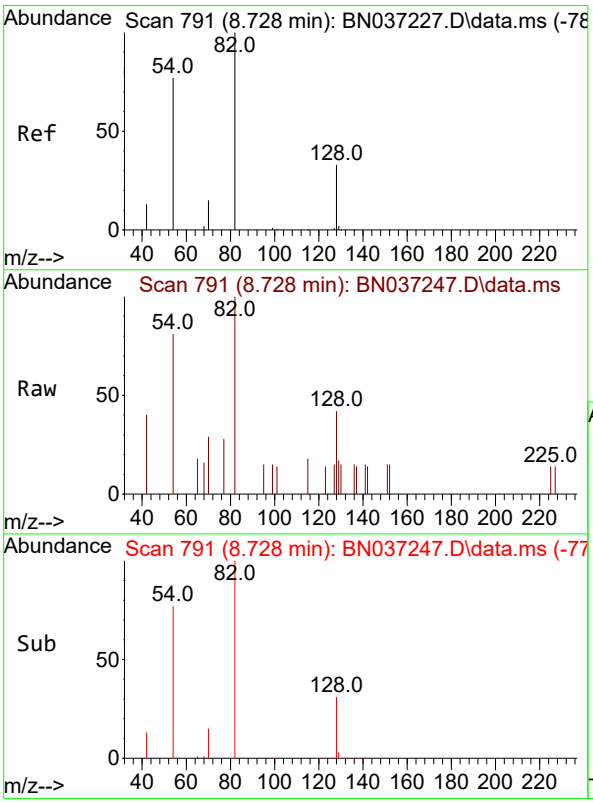
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MSD

Tgt Ion:136 Resp: 2241

Ion	Ratio	Lower	Upper
136	100		
137	14.5	10.6	15.8
54	17.9	9.2	13.8#
68	9.6	5.4	8.0#

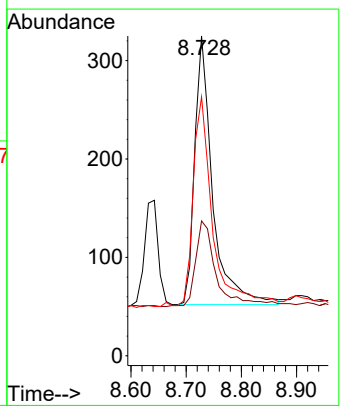


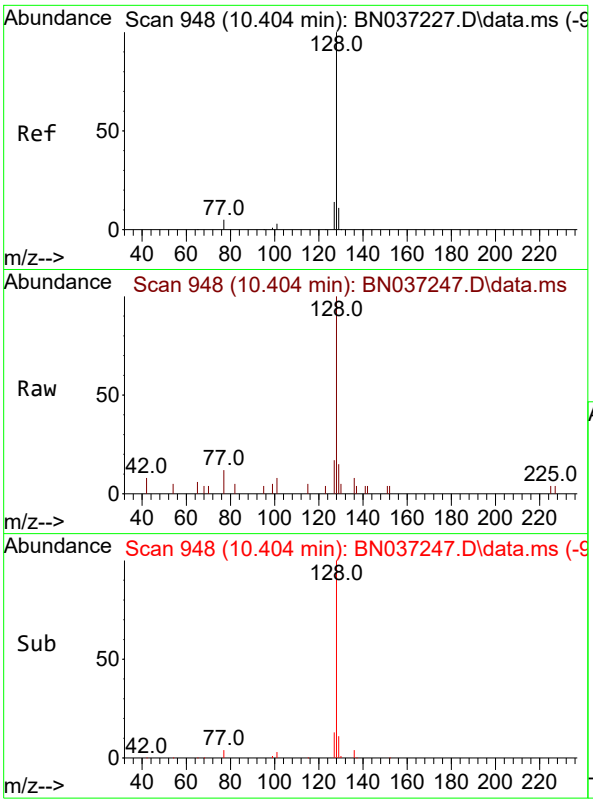


#8
Nitrobenzene-d5
Concen: 0.278 ng
RT: 8.728 min Scan# 791
Delta R.T. -0.000 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Tgt Ion: 82 Resp: 616

Ion	Ratio	Lower	Upper
82	100		
128	42.2	31.2	46.8
54	80.9	63.3	94.9



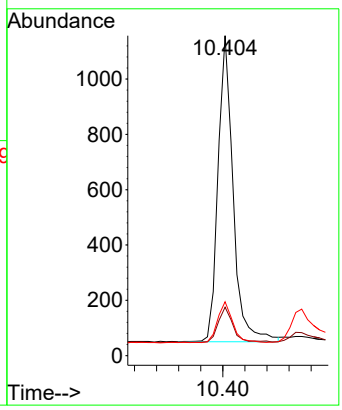


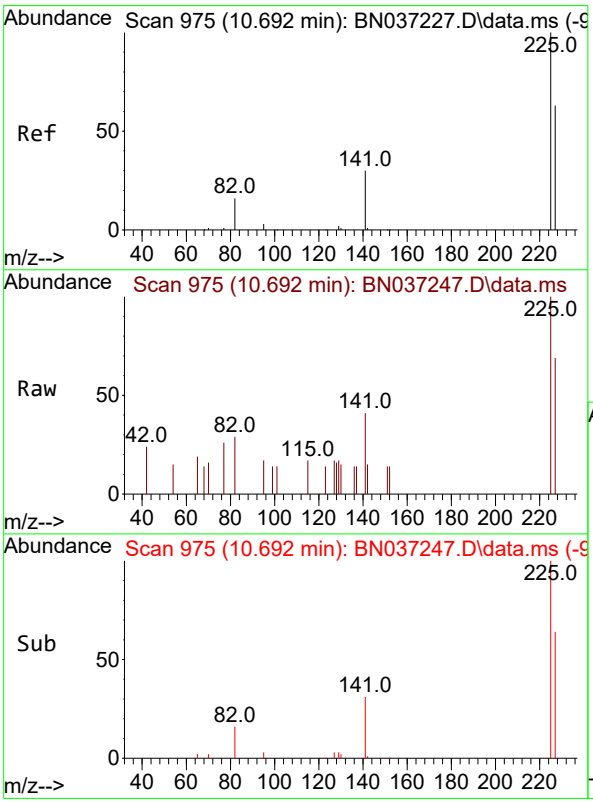
#9
Naphthalene
Concen: 0.324 ng
RT: 10.404 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MSD

Tgt Ion:128 Resp: 2101

Ion	Ratio	Lower	Upper
128	100		
129	15.1	10.7	16.1
127	16.9	12.6	19.0

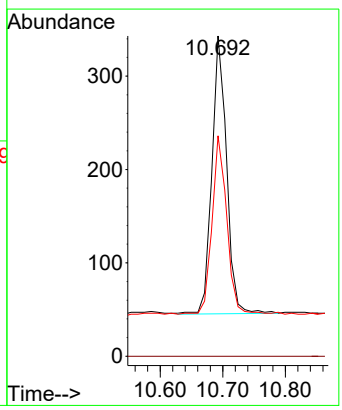


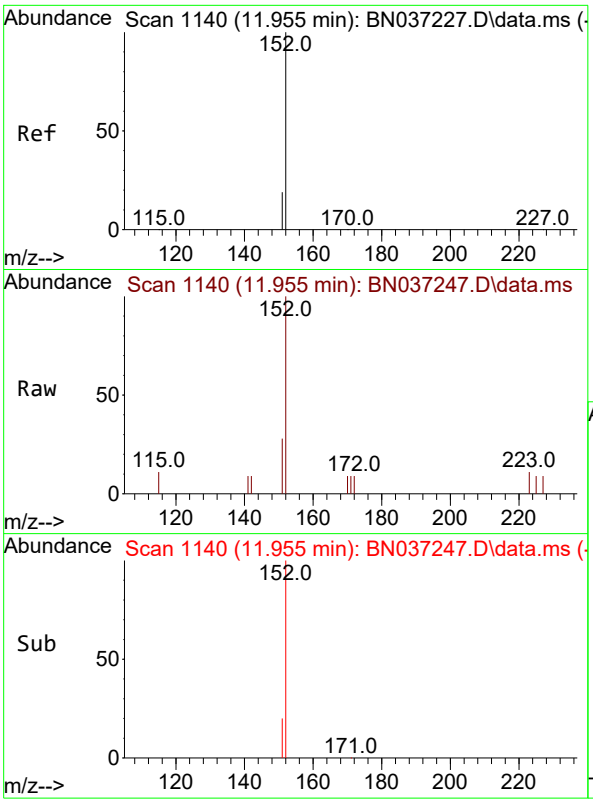


#10
Hexachlorobutadiene
Concen: 0.307 ng
RT: 10.692 min Scan# 975
Delta R.T. -0.000 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Tgt Ion:225 Resp: 485

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.9	49.2	73.8



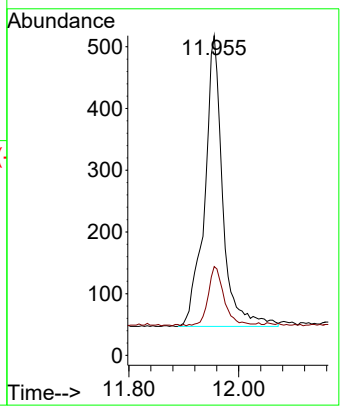


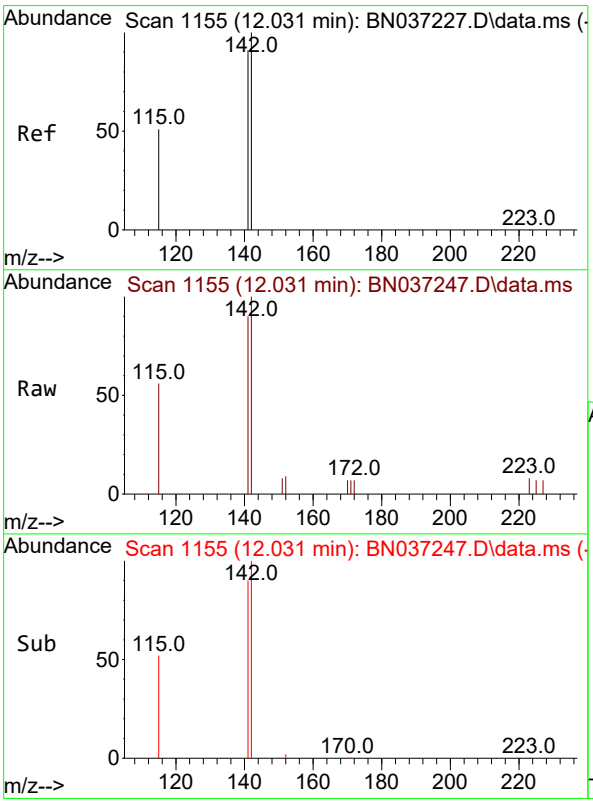
#11
2-Methylnaphthalene-d10
Concen: 0.357 ng
RT: 11.955 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MSD

Tgt Ion:152 Resp: 1075

Ion	Ratio	Lower	Upper
152	100		
151	18.0	17.9	26.9

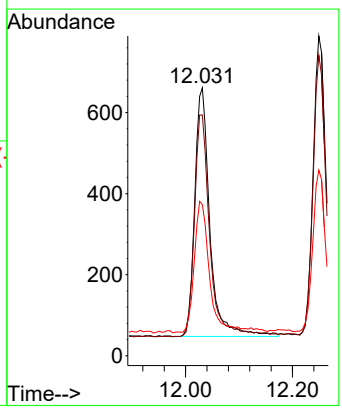


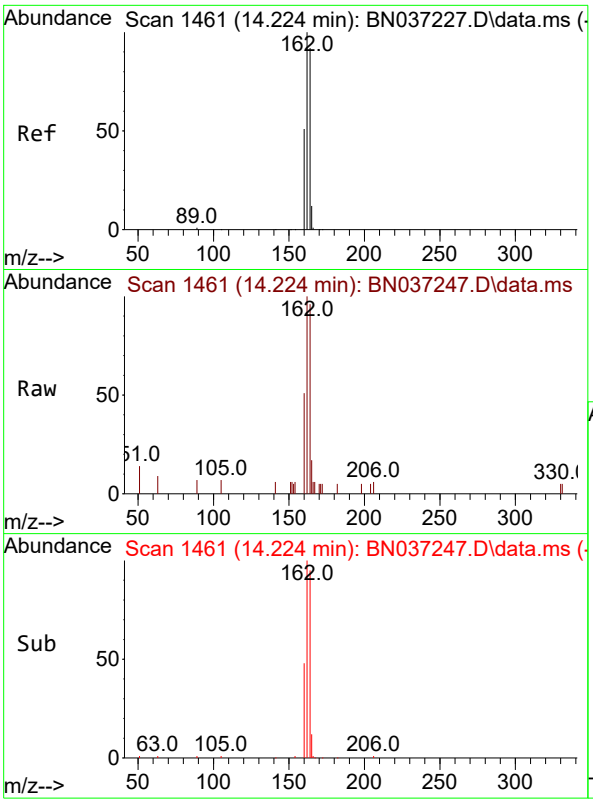


#12
2-Methylnaphthalene
Concen: 0.306 ng
RT: 12.031 min Scan# 1155
Delta R.T. -0.000 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Tgt Ion:142 Resp: 1206

Ion	Ratio	Lower	Upper
142	100		
141	89.9	73.0	109.6
115	56.4	43.3	64.9



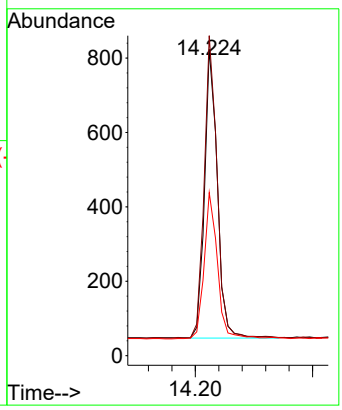


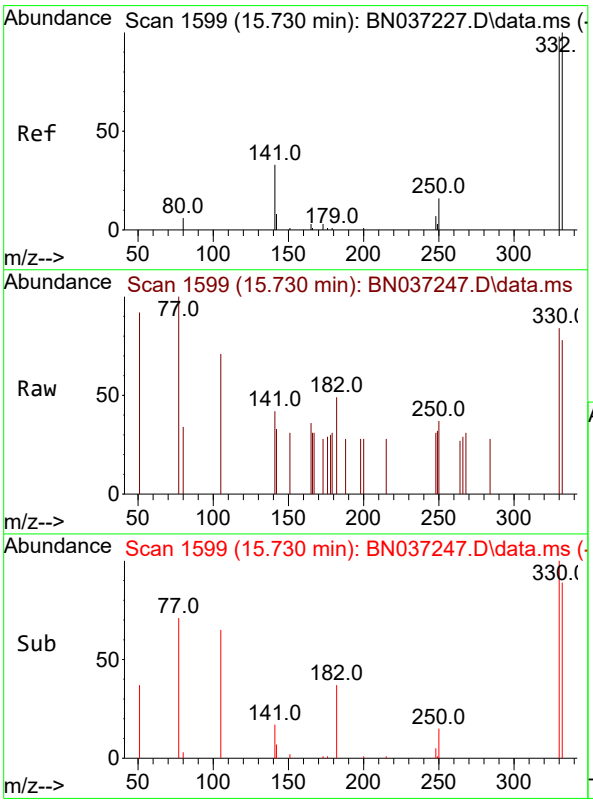
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MSD

Tgt Ion:164 Resp: 1184

Ion	Ratio	Lower	Upper
164	100		
162	104.5	86.7	130.1
160	53.2	45.8	68.6

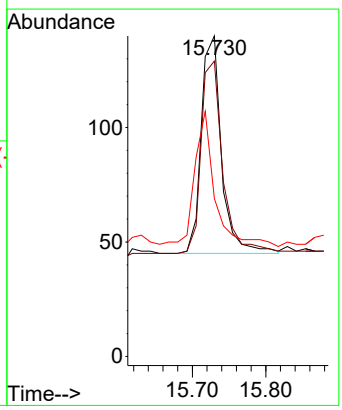


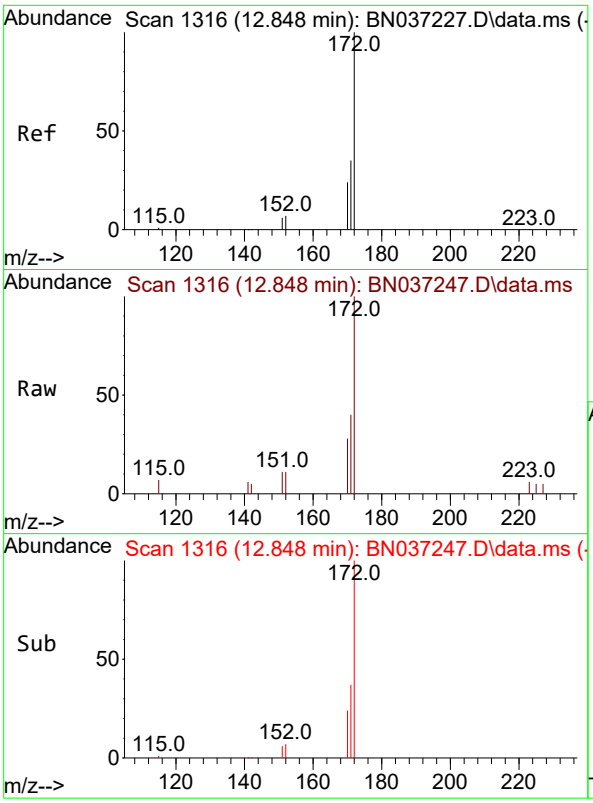


#14
2,4,6-Tribromophenol
Concen: 0.370 ng
RT: 15.730 min Scan# 1599
Delta R.T. -0.000 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Tgt Ion:330 Resp: 182

Ion	Ratio	Lower	Upper
330	100		
332	96.7	74.9	112.3
141	62.6	45.1	67.7



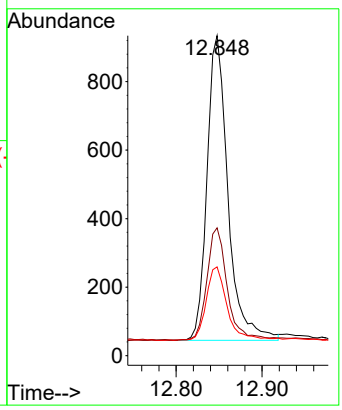


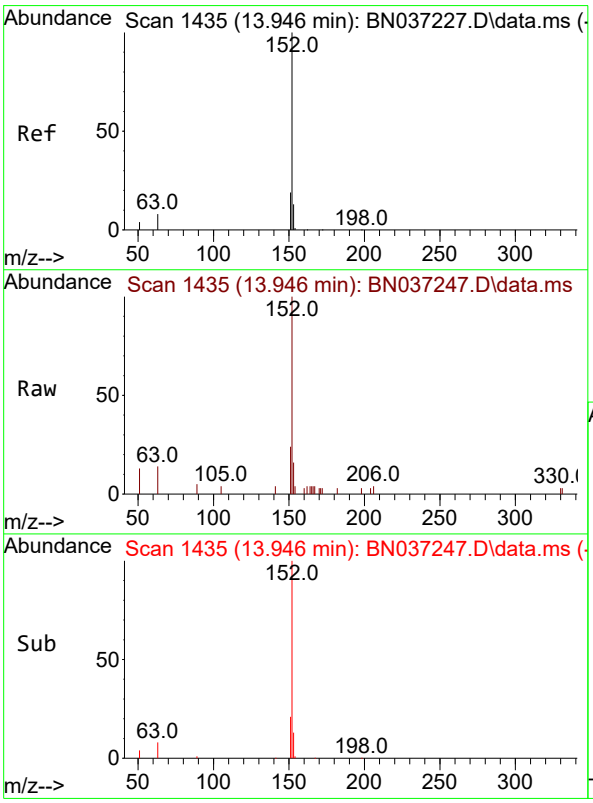
#15
2-Fluorobiphenyl
Concen: 0.302 ng
RT: 12.848 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MSD

Tgt Ion:172 Resp: 1504

Ion	Ratio	Lower	Upper
172	100		
171	39.9	29.8	44.8
170	27.7	21.1	31.7

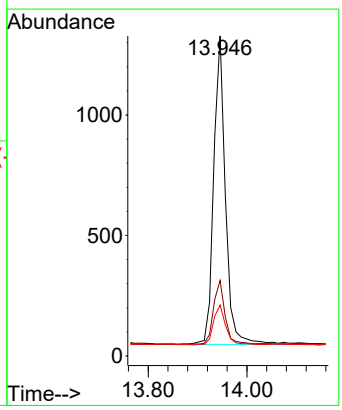


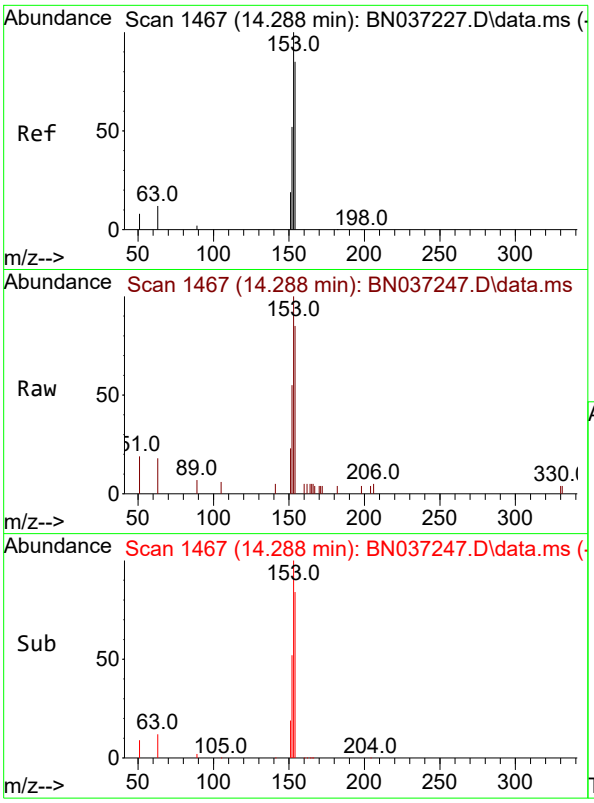


#16
Acenaphthylene
Concen: 0.363 ng
RT: 13.946 min Scan# 1435
Delta R.T. -0.000 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Tgt Ion:152 Resp: 2106

Ion	Ratio	Lower	Upper
152	100		
151	20.0	15.7	23.5
153	13.6	10.7	16.1



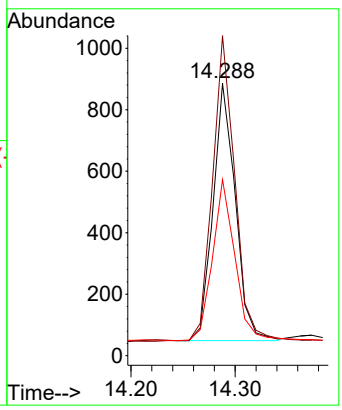


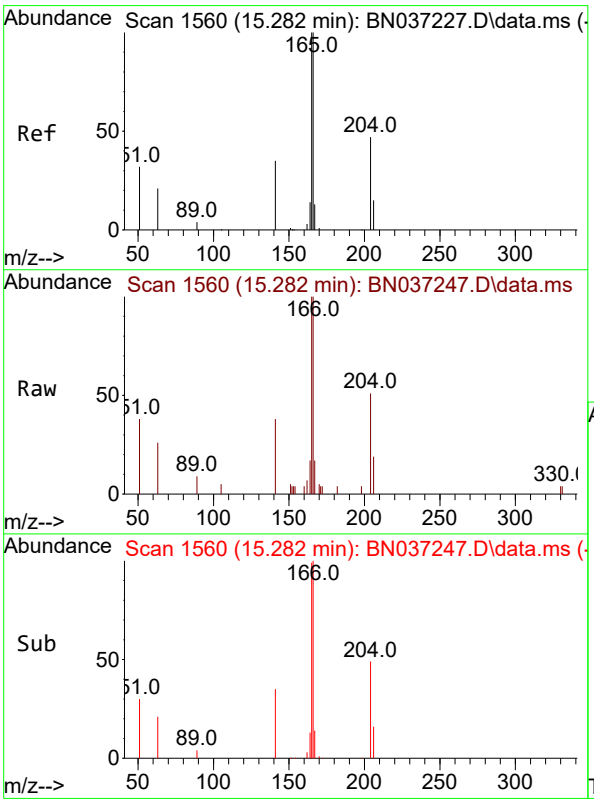
#17
Acenaphthene
Concen: 0.332 ng
RT: 14.288 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MSD

Tgt Ion:154 Resp: 1244

Ion	Ratio	Lower	Upper
154	100		
153	119.7	94.6	141.8
152	64.1	49.6	74.4

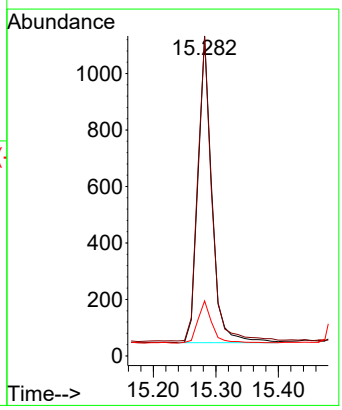


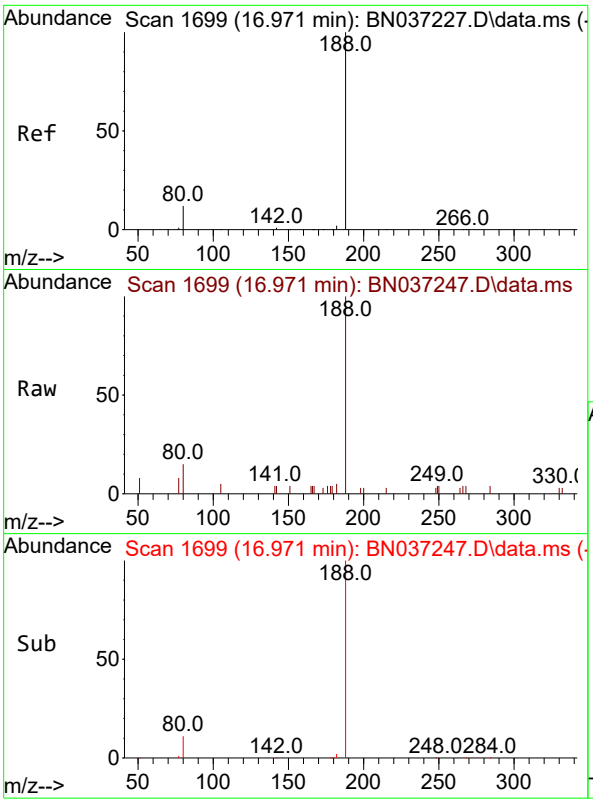


#18
Fluorene
Concen: 0.349 ng
RT: 15.282 min Scan# 1560
Delta R.T. -0.000 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Tgt Ion:166 Resp: 1681

Ion	Ratio	Lower	Upper
166	100		
165	99.1	79.8	119.6
167	13.9	10.8	16.2



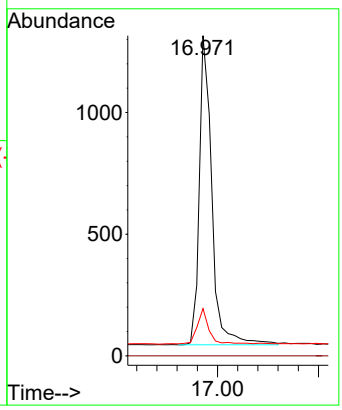


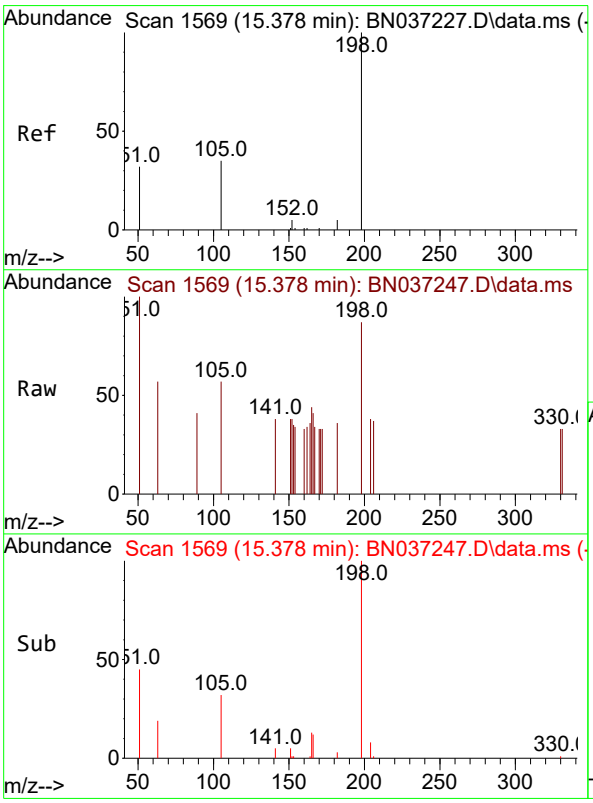
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MSD

Tgt Ion:188 Resp: 2199

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	14.7	12.2	18.4

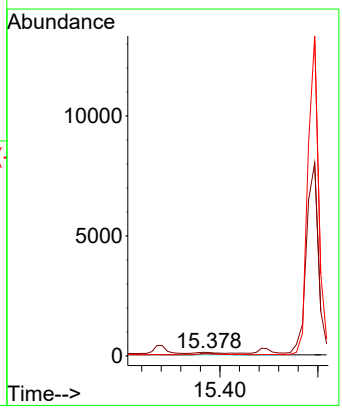


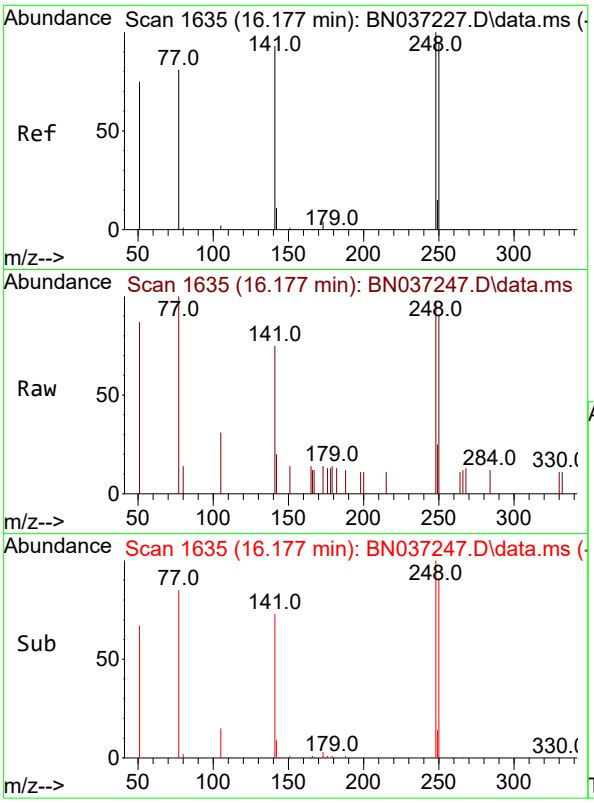


#20
4,6-Dinitro-2-methylphenol
Concen: 0.473 ng
RT: 15.378 min Scan# 1569
Delta R.T. 0.000 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Tgt Ion:198 Resp: 206

Ion	Ratio	Lower	Upper
198	100		
51	115.0	111.2	166.8
105	65.8	54.0	81.0



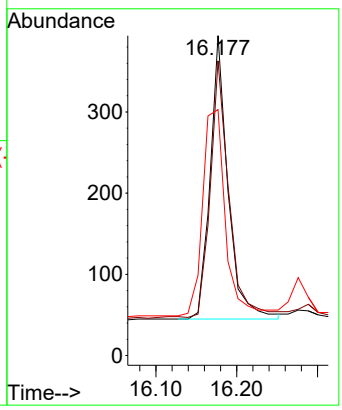


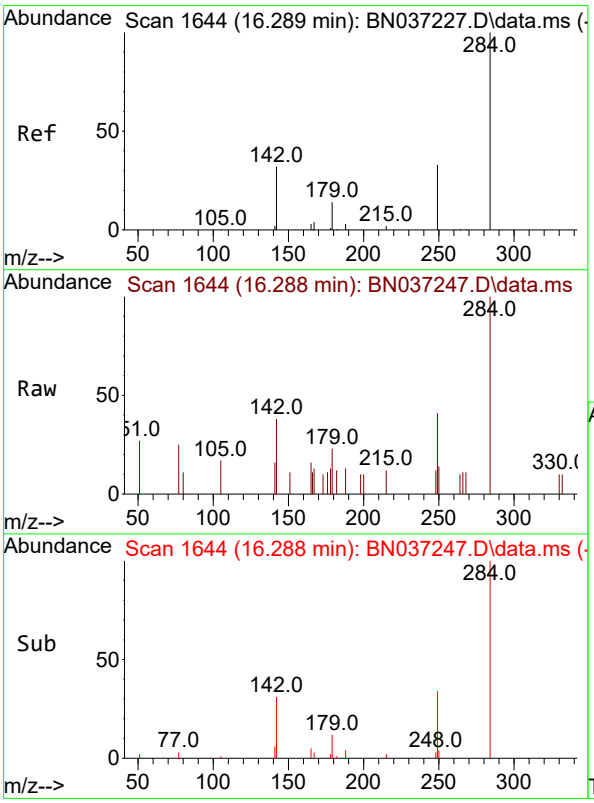
#21
4-Bromophenyl-phenylether
Concen: 0.375 ng
RT: 16.177 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MSD

Tgt Ion:248 Resp: 538

Ion	Ratio	Lower	Upper
248	100		
250	92.1	76.8	115.2
141	76.9	75.6	113.4

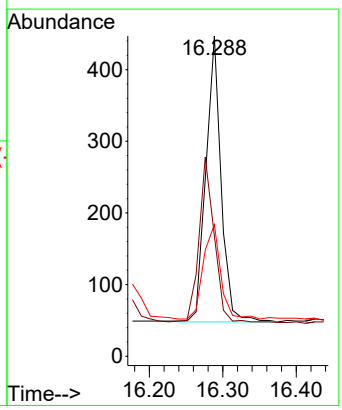


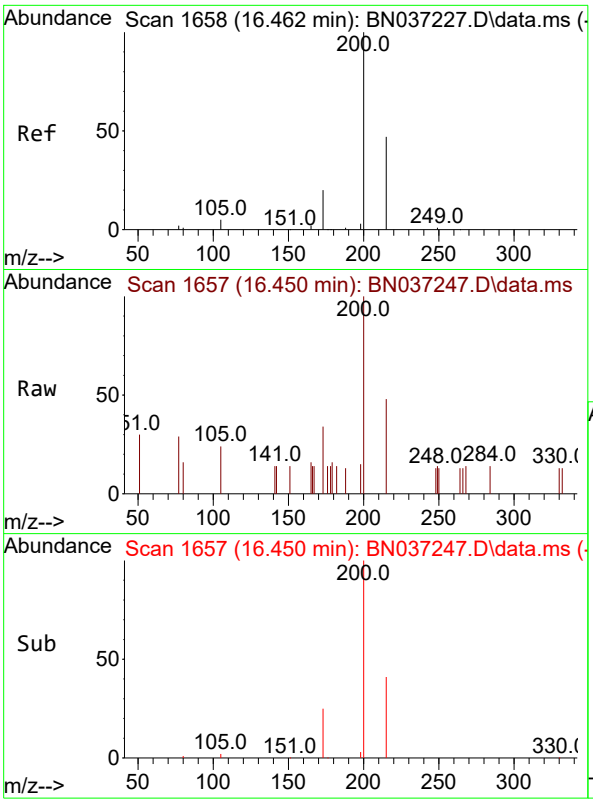


#22
Hexachlorobenzene
Concen: 0.345 ng
RT: 16.288 min Scan# 1644
Delta R.T. -0.000 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Tgt Ion:284 Resp: 573

Ion	Ratio	Lower	Upper
284	100		
142	58.3	43.8	65.6
249	42.1	28.4	42.6



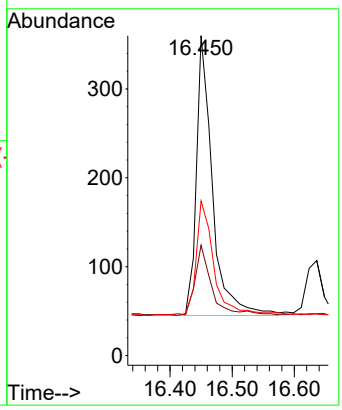


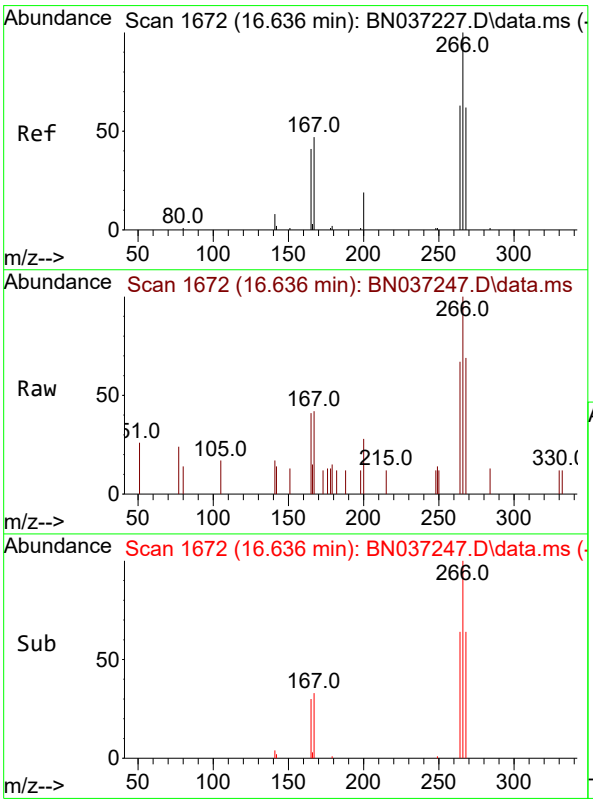
#23
Atrazine
Concen: 0.444 ng
RT: 16.450 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MSD

Tgt Ion:200 Resp: 567

Ion	Ratio	Lower	Upper
200	100		
173	34.4	25.1	37.7
215	48.3	43.7	65.5

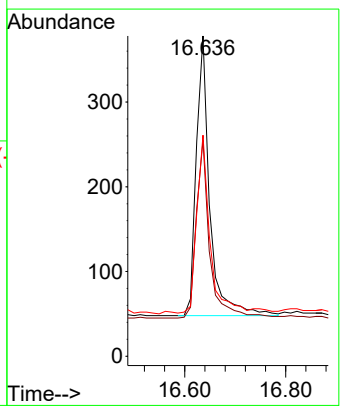


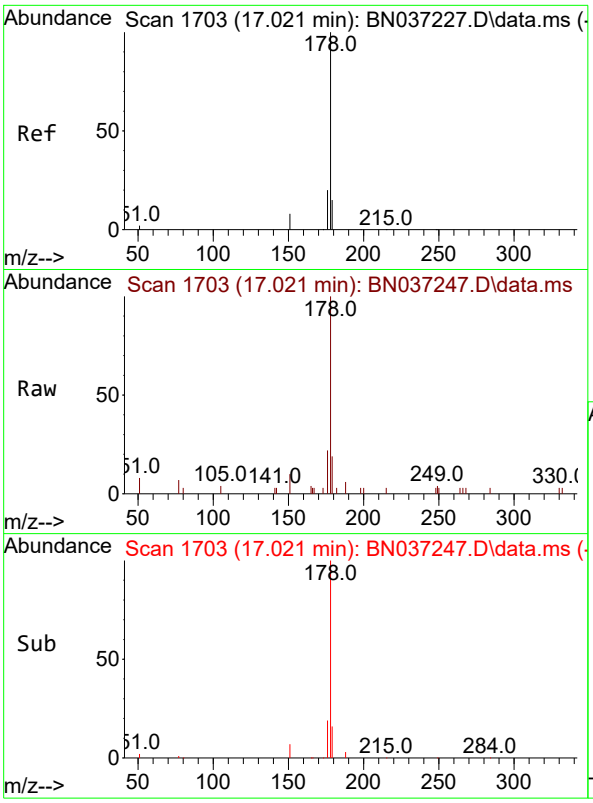


#24
Pentachlorophenol
Concen: 0.754 ng
RT: 16.636 min Scan# 1672
Delta R.T. -0.000 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Tgt Ion:266 Resp: 614

Ion	Ratio	Lower	Upper
266	100		
264	63.4	49.2	73.8
268	63.4	53.4	80.2



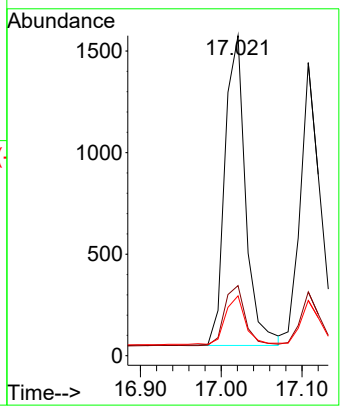


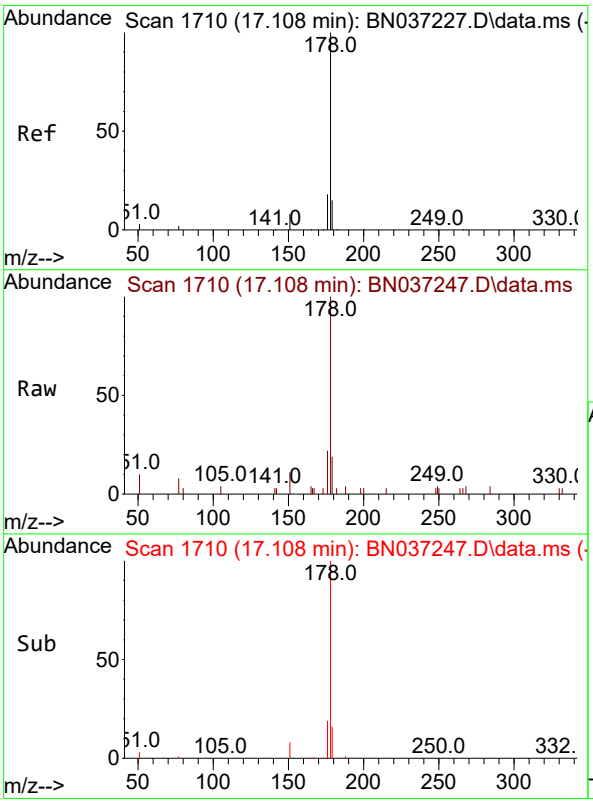
#25
Phenanthrene
Concen: 0.388 ng
RT: 17.021 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MSD

Tgt Ion:178 Resp: 2705

Ion	Ratio	Lower	Upper
178	100		
176	19.6	16.3	24.5
179	15.6	12.6	18.8

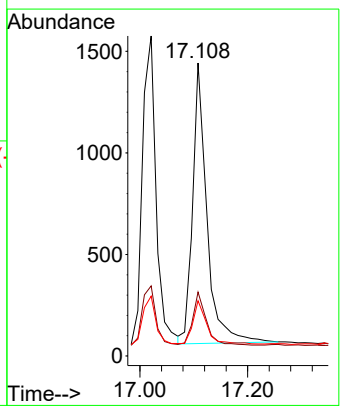


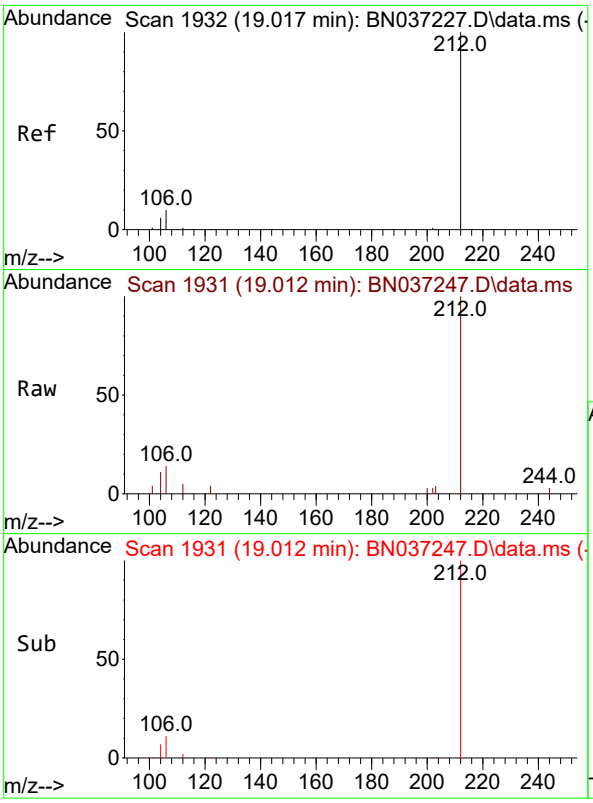


#26
Anthracene
Concen: 0.399 ng
RT: 17.108 min Scan# 1710
Delta R.T. -0.000 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Tgt Ion:178 Resp: 2547

Ion	Ratio	Lower	Upper
178	100		
176	18.0	15.1	22.7
179	15.0	12.4	18.6



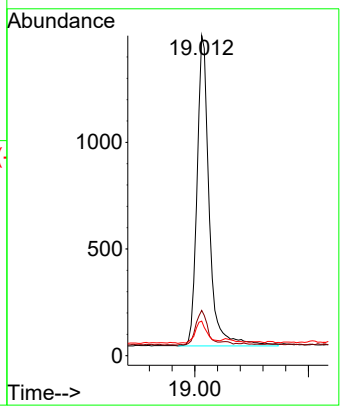


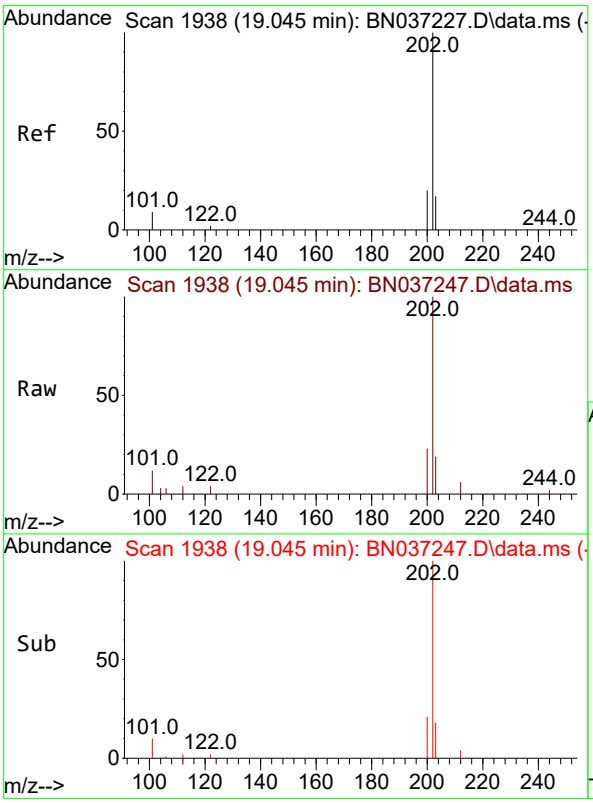
#27
Fluoranthene-d10
Concen: 0.376 ng
RT: 19.012 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MSD

Tgt Ion:212 Resp: 2166

Ion	Ratio	Lower	Upper
212	100		
106	10.8	9.3	13.9
104	7.1	5.7	8.5

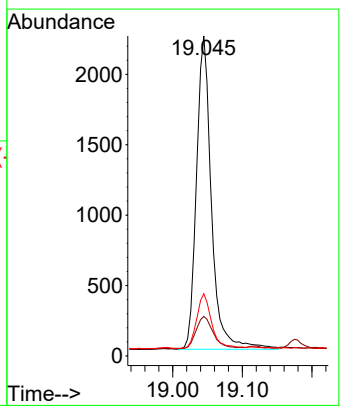


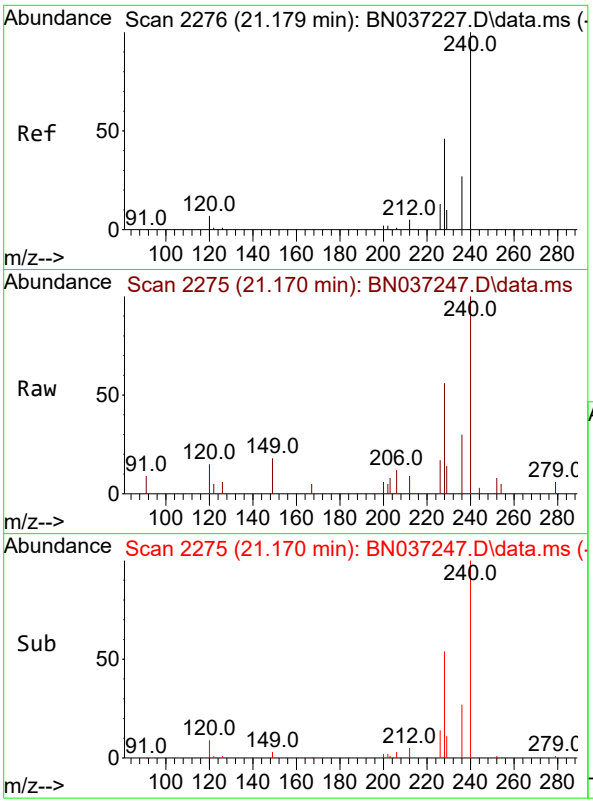


#28
Fluoranthene
Concen: 0.408 ng
RT: 19.045 min Scan# 1938
Delta R.T. -0.000 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Tgt Ion:202 Resp: 3333

Ion	Ratio	Lower	Upper
202	100		
101	12.3	7.1	10.7#
203	17.1	13.0	19.6



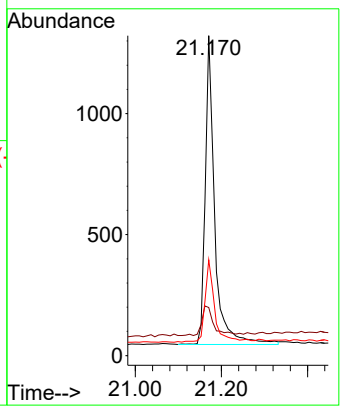


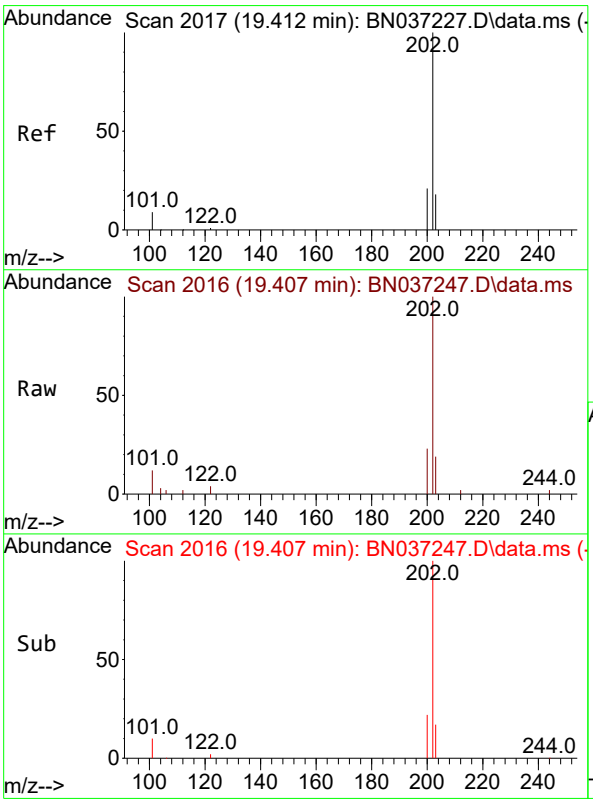
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.170 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MSD

Tgt Ion:240 Resp: 1956

Ion	Ratio	Lower	Upper
240	100		
120	15.1	11.3	16.9
236	30.0	24.4	36.6

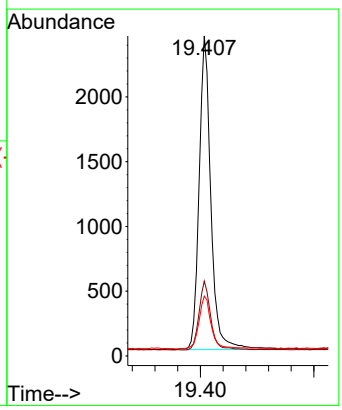


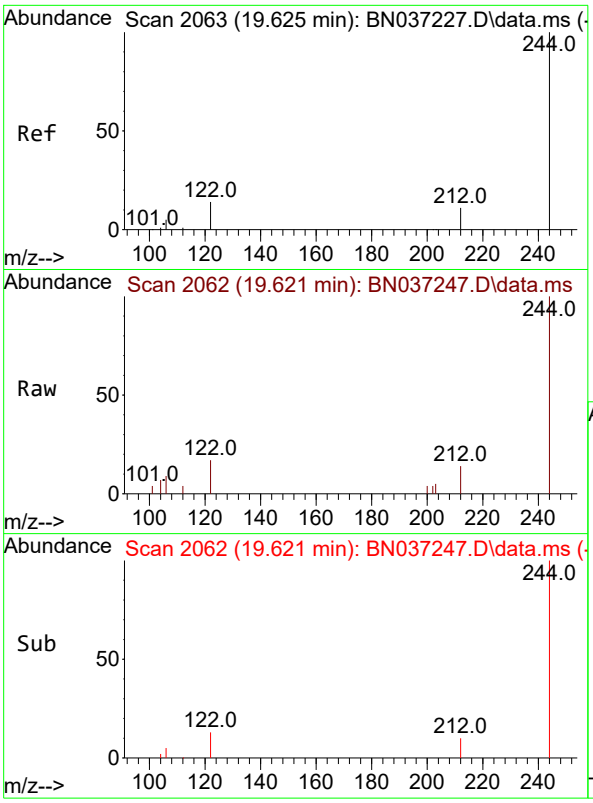


#30
Pyrene
Concen: 0.378 ng
RT: 19.407 min Scan# 2016
Delta R.T. -0.005 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Tgt Ion:202 Resp: 3474

Ion	Ratio	Lower	Upper
202	100		
200	21.7	17.2	25.8
203	17.5	14.3	21.5



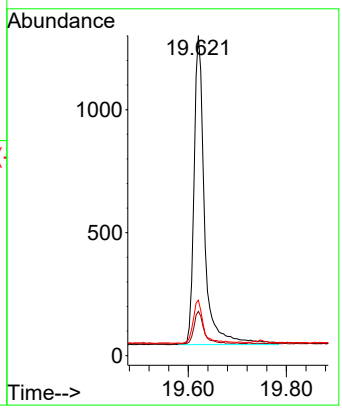


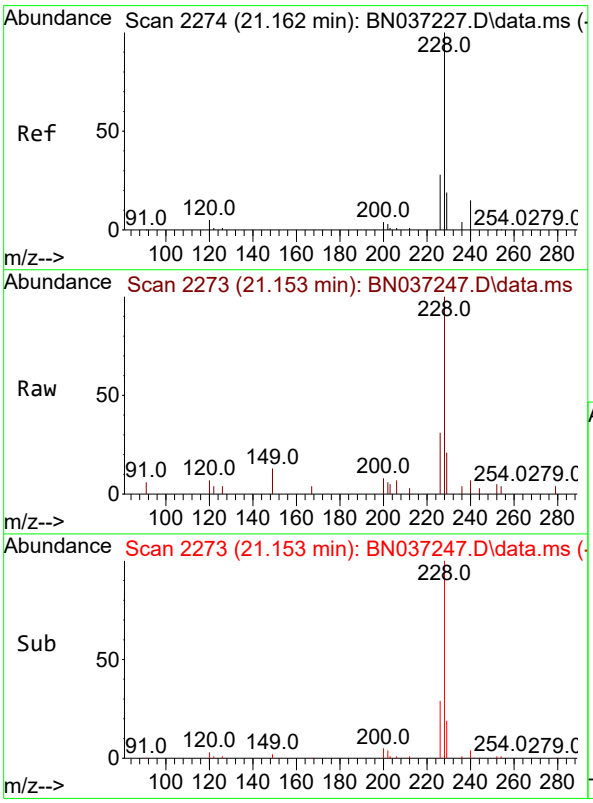
#31
Terphenyl-d14
Concen: 0.426 ng
RT: 19.621 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MSD

Tgt Ion:244 Resp: 1884

Ion	Ratio	Lower	Upper
244	100		
212	13.8	12.2	18.2
122	17.4	14.3	21.5

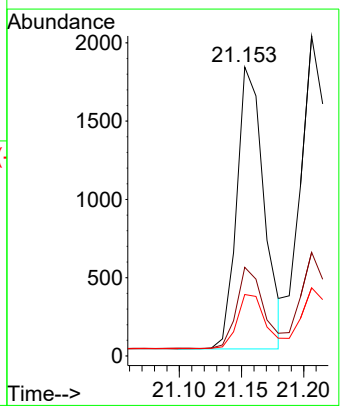


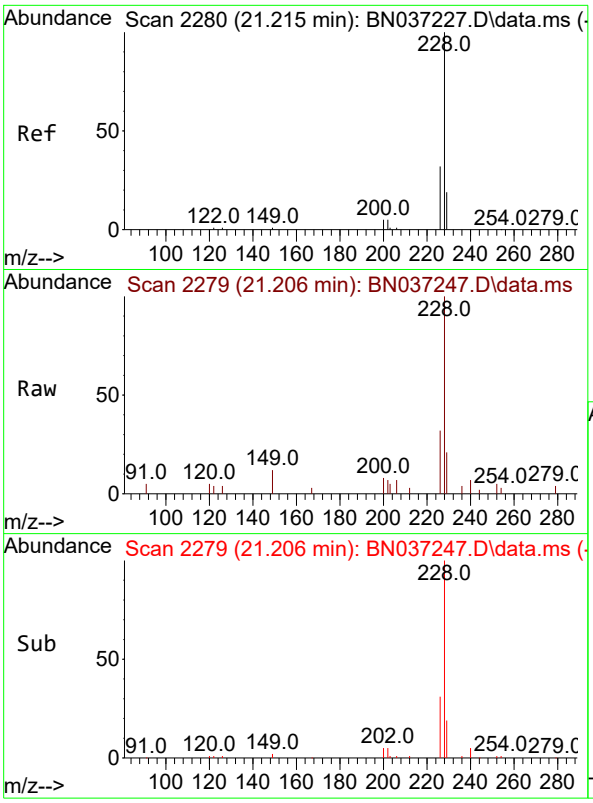


#32
Benzo(a)anthracene
Concen: 0.417 ng
RT: 21.153 min Scan# 2273
Delta R.T. -0.009 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Tgt Ion:228 Resp: 2751

Ion	Ratio	Lower	Upper
228	100		
226	30.7	23.8	35.8
229	21.3	17.0	25.4



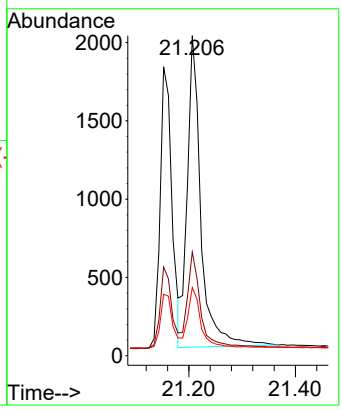


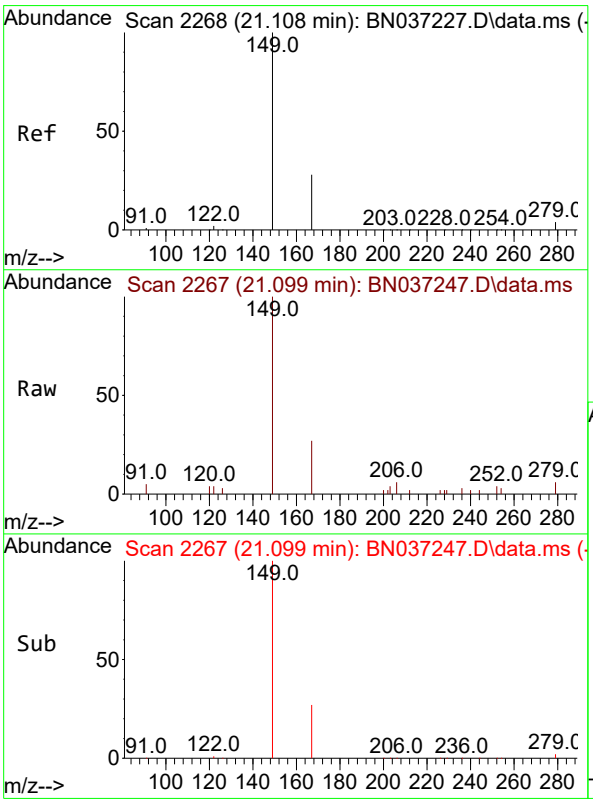
#33
Chrysene
Concen: 0.428 ng
RT: 21.206 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MSD

Tgt Ion:228 Resp: 3522

Ion	Ratio	Lower	Upper
228	100		
226	32.4	25.8	38.6
229	21.3	17.0	25.4

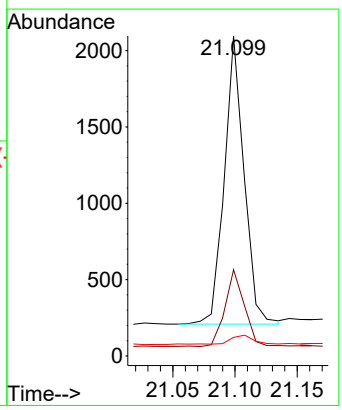


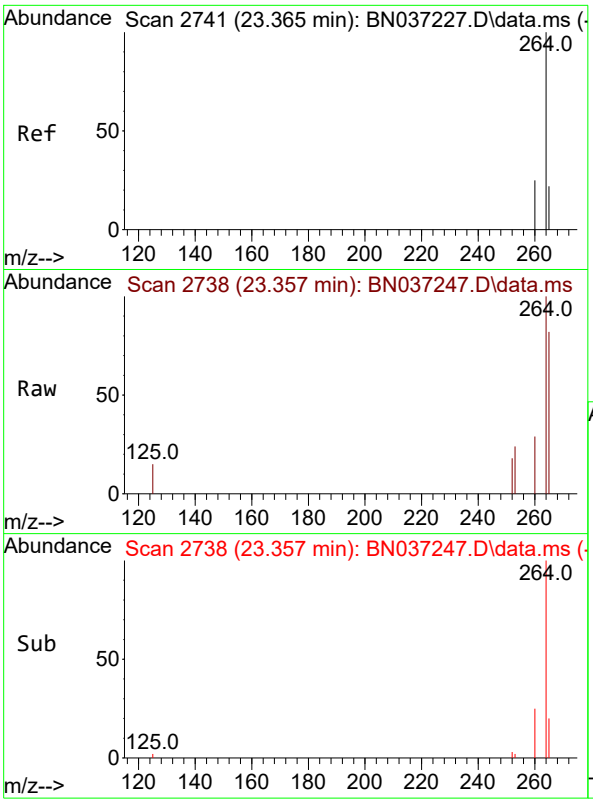


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.422 ng
RT: 21.099 min Scan# 2267
Delta R.T. -0.009 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Tgt Ion:149 Resp: 2078

Ion	Ratio	Lower	Upper
149	100		
167	26.0	21.3	31.9
279	4.0	3.3	4.9



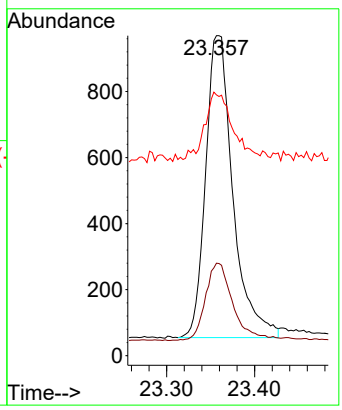


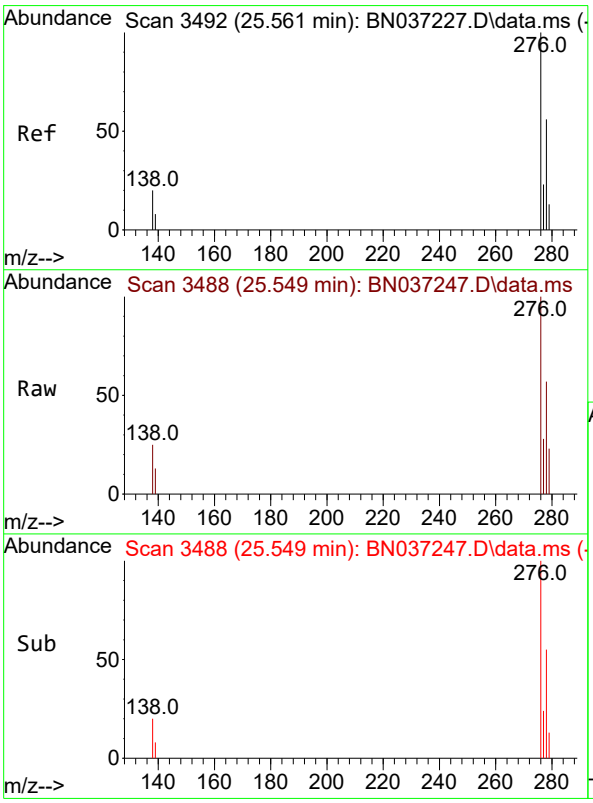
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.357 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MSD

Tgt Ion:264 Resp: 1969

Ion	Ratio	Lower	Upper
264	100		
260	28.9	22.8	34.2
265	81.5	66.4	99.6

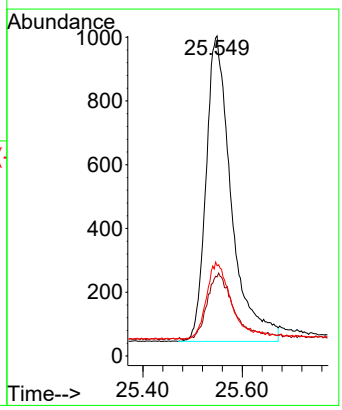


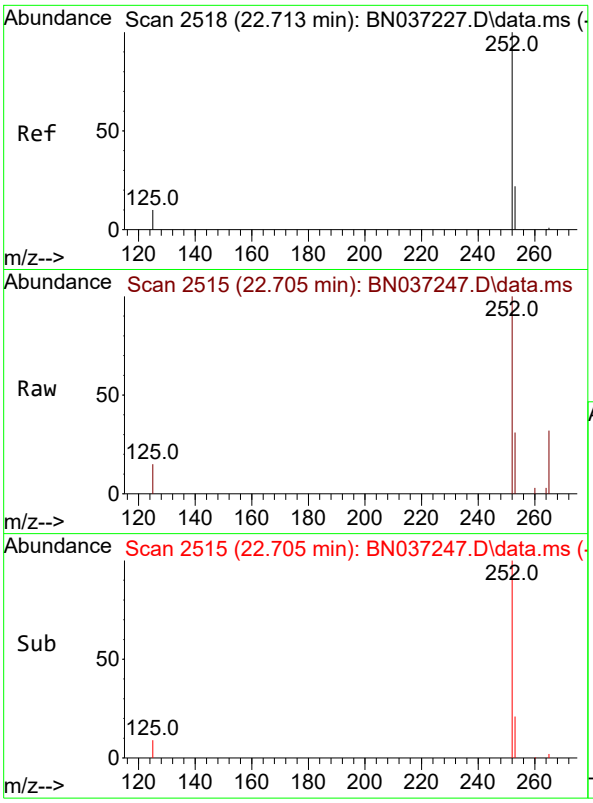


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.426 ng
RT: 25.549 min Scan# 3488
Delta R.T. -0.012 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Tgt Ion:276 Resp: 3380

Ion	Ratio	Lower	Upper
276	100		
138	21.5	16.8	25.2
277	24.0	19.5	29.3



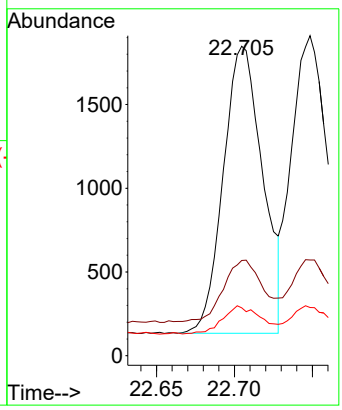


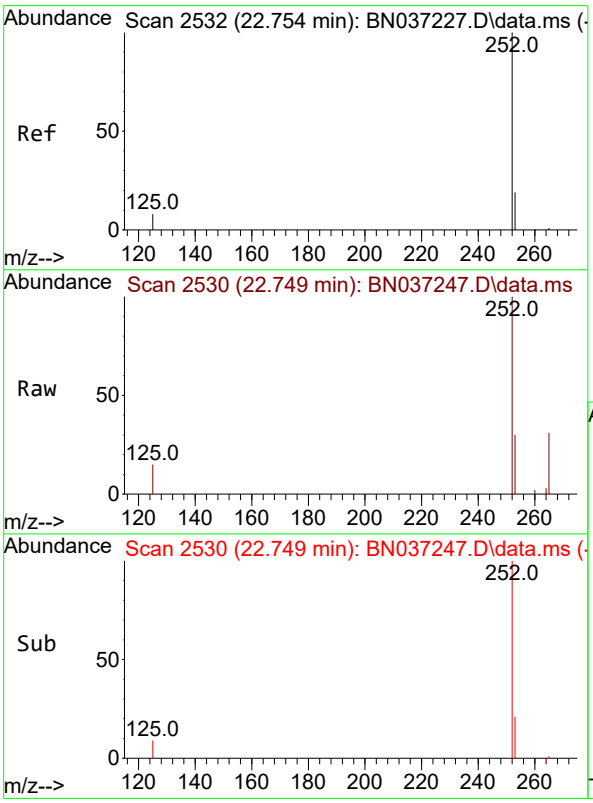
#37
Benzo(b)fluoranthene
Concen: 0.418 ng
RT: 22.705 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MSD

Tgt Ion:252 Resp: 3013

Ion	Ratio	Lower	Upper
252	100		
253	30.8	24.9	37.3
125	15.5	12.9	19.3

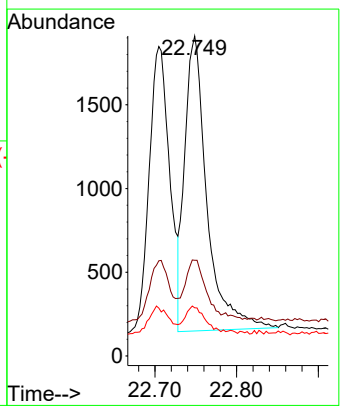


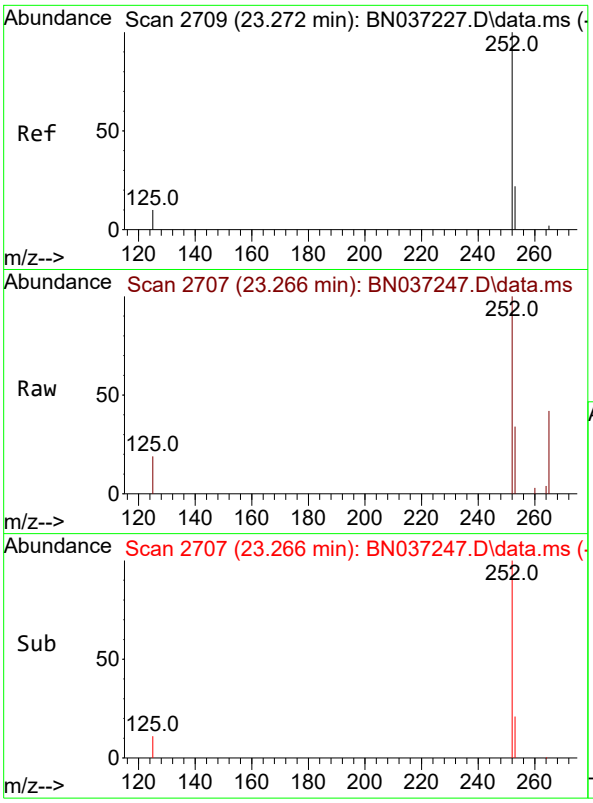


#38
Benzo(k)fluoranthene
Concen: 0.402 ng
RT: 22.749 min Scan# 2530
Delta R.T. -0.006 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Tgt Ion:252 Resp: 3339

Ion	Ratio	Lower	Upper
252	100		
253	29.9	24.6	37.0
125	15.1	13.4	20.2



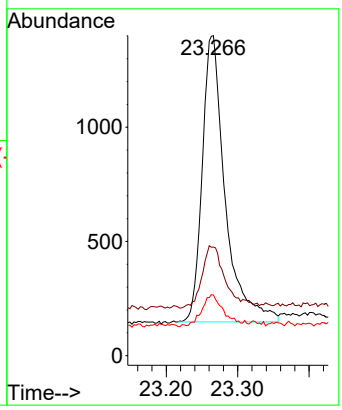


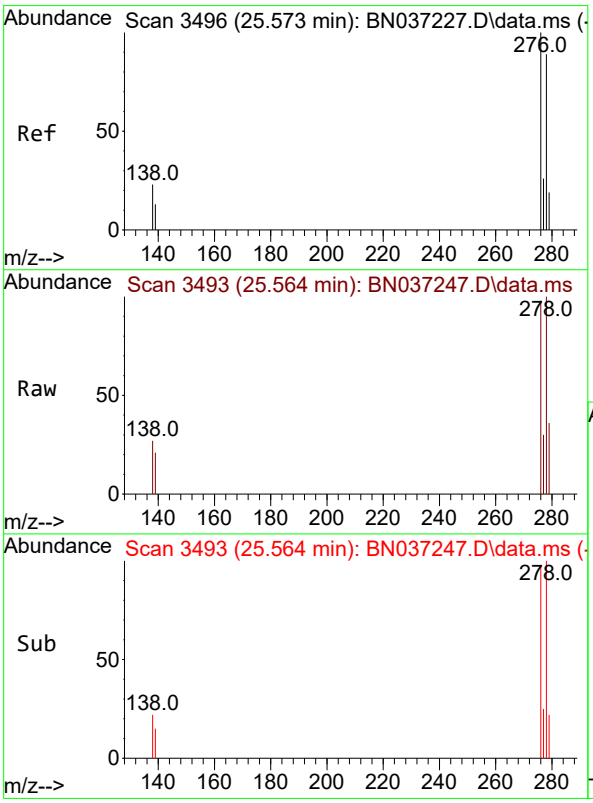
#39
Benzo(a)pyrene
Concen: 0.431 ng
RT: 23.266 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MSD

Tgt Ion:252 Resp: 2791

Ion	Ratio	Lower	Upper
252	100		
253	34.0	29.4	44.2
125	19.0	16.2	24.2

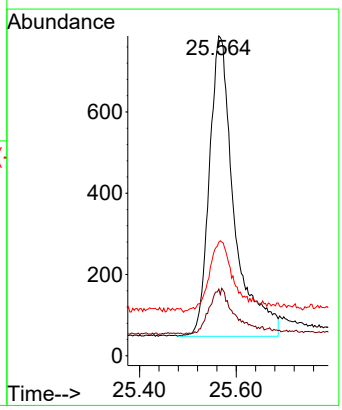


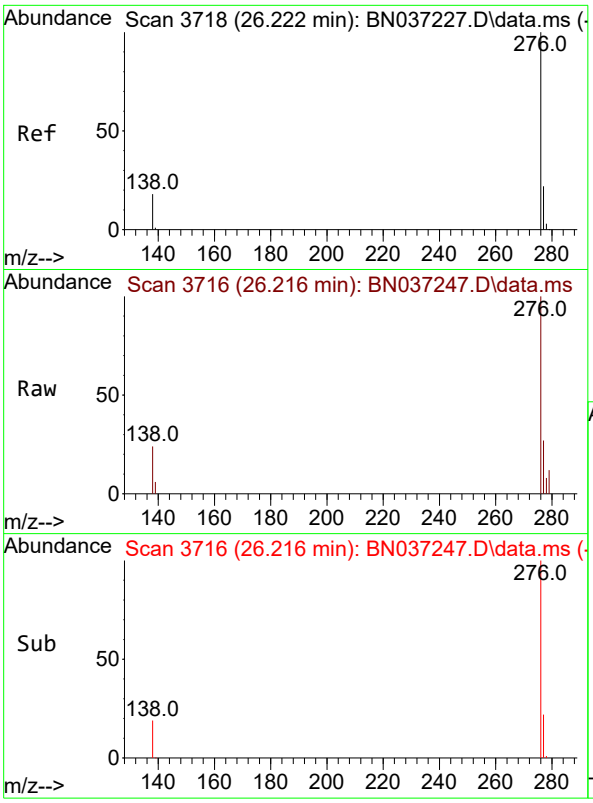


#40
Dibenzo(a,h)anthracene
Concen: 0.437 ng
RT: 25.564 min Scan# 3493
Delta R.T. -0.009 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Tgt Ion:278 Resp: 2637

Ion	Ratio	Lower	Upper
278	100		
139	20.8	17.8	26.6
279	35.6	31.3	46.9



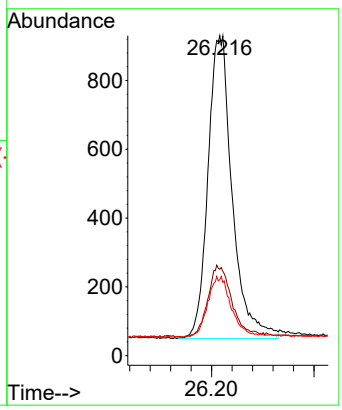


#41
Benzo(g,h,i)perylene
Concen: 0.393 ng
RT: 26.216 min Scan# 3
Delta R.T. -0.006 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MSD

Tgt Ion:276 Resp: 2894

Ion	Ratio	Lower	Upper
276	100		
277	27.0	22.0	33.0
138	23.8	18.4	27.6



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037270.D
Acq On : 14 Jun 2025 20:00
Operator : RC/JU
Sample : PB168458BS
Misc :
ALS Vial : 49 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB168458BS

Quant Time: Jun 16 02:44:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration

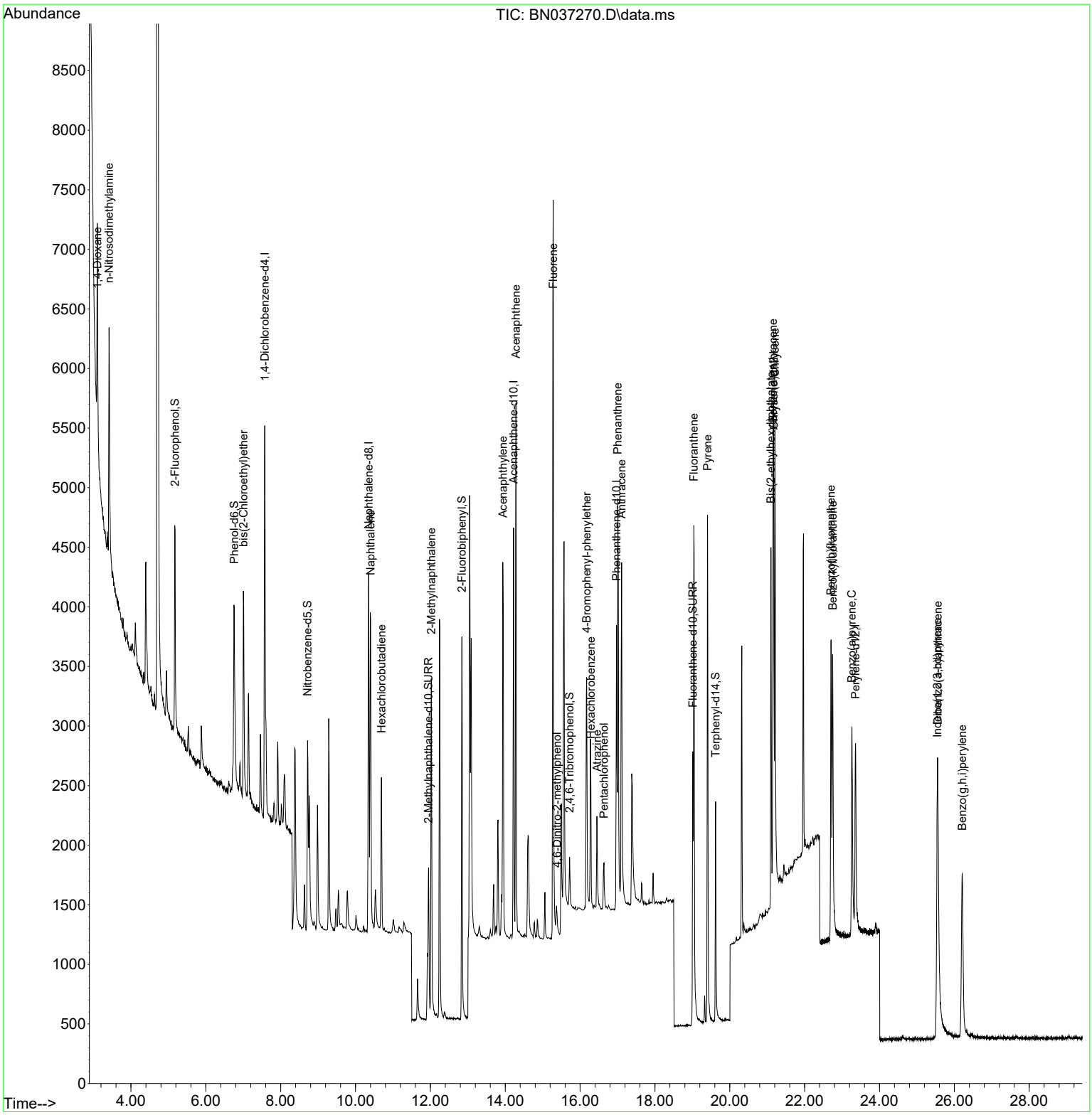
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	1588	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	3911	0.400	ng	-0.01
13) Acenaphthene-d10	14.224	164	1944	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	3410	0.400	ng	# 0.00
29) Chrysene-d12	21.171	240	2495	0.400	ng	0.00
35) Perylene-d12	23.360	264	2298	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	1318	0.338	ng	0.00
5) Phenol-d6	6.759	99	1473	0.358	ng	0.00
8) Nitrobenzene-d5	8.717	82	1391	0.360	ng	-0.01
11) 2-Methylnaphthalene-d10	11.950	152	2854	0.544	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	247	0.306	ng	-0.01
15) 2-Fluorobiphenyl	12.843	172	3044	0.373	ng	0.00
27) Fluoranthene-d10	19.012	212	3035	0.340	ng	0.00
31) Terphenyl-d14	19.621	244	2131	0.378	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.104	88	779	0.358	ng	# 35
3) n-Nitrosodimethylamine	3.415	42	1716	0.346	ng	# 98
6) bis(2-Chloroethyl)ether	7.004	93	1351	0.367	ng	97
9) Naphthalene	10.404	128	3863	0.341	ng	99
10) Hexachlorobutadiene	10.692	225	984	0.357	ng	# 96
12) 2-Methylnaphthalene	12.026	142	2180	0.317	ng	99
16) Acenaphthylene	13.935	152	3608	0.379	ng	99
17) Acenaphthene	14.288	154	2128	0.346	ng	99
18) Fluorene	15.282	166	2799	0.354	ng	99
20) 4,6-Dinitro-2-methylph...	15.378	198	248	0.394	ng	# 77
21) 4-Bromophenyl-phenylether	16.177	248	830	0.374	ng	# 84
22) Hexachlorobenzene	16.289	284	927	0.360	ng	98
23) Atrazine	16.450	200	760	0.383	ng	94
24) Pentachlorophenol	16.636	266	252	0.200	ng	94
25) Phenanthrene	17.009	178	3936	0.364	ng	99
26) Anthracene	17.108	178	3696	0.373	ng	99
28) Fluoranthene	19.040	202	4192	0.331	ng	98
30) Pyrene	19.407	202	4321	0.368	ng	100
32) Benzo(a)anthracene	21.153	228	3158	0.375	ng	99
33) Chrysene	21.206	228	3873	0.369	ng	99
34) Bis(2-ethylhexyl)phtha...	21.099	149	2339	0.373	ng	100
36) Indeno(1,2,3-cd)pyrene	25.544	276	3705	0.400	ng	100
37) Benzo(b)fluoranthene	22.705	252	3140	0.374	ng	98
38) Benzo(k)fluoranthene	22.749	252	3614	0.372	ng	99
39) Benzo(a)pyrene	23.260	252	3030	0.401	ng	98
40) Dibenzo(a,h)anthracene	25.558	278	2809	0.398	ng	96
41) Benzo(g,h,i)perylene	26.210	276	3183	0.370	ng	99

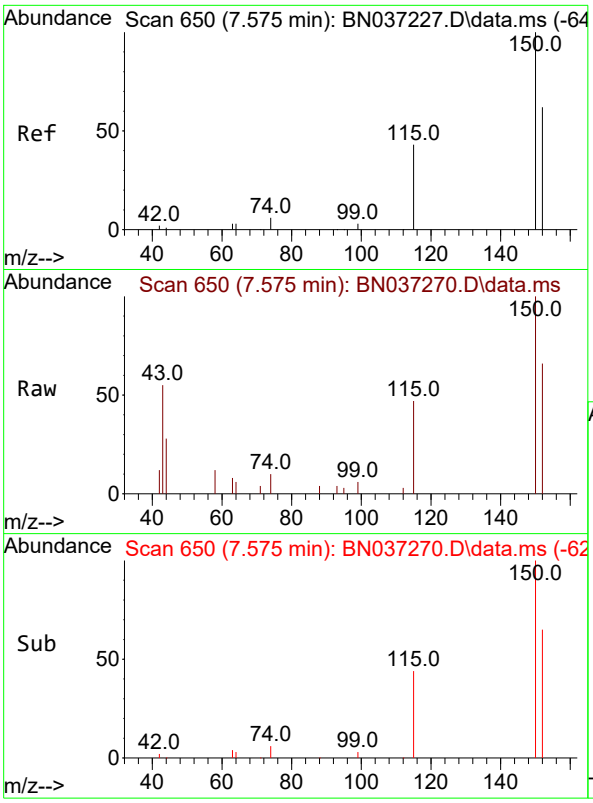
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037270.D
Acq On : 14 Jun 2025 20:00
Operator : RC/JU
Sample : PB168458BS
Misc :
ALS Vial : 49 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB168458BS

Quant Time: Jun 16 02:44:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration



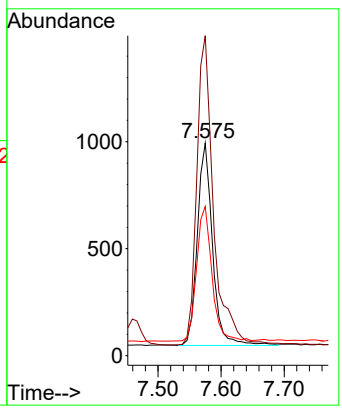


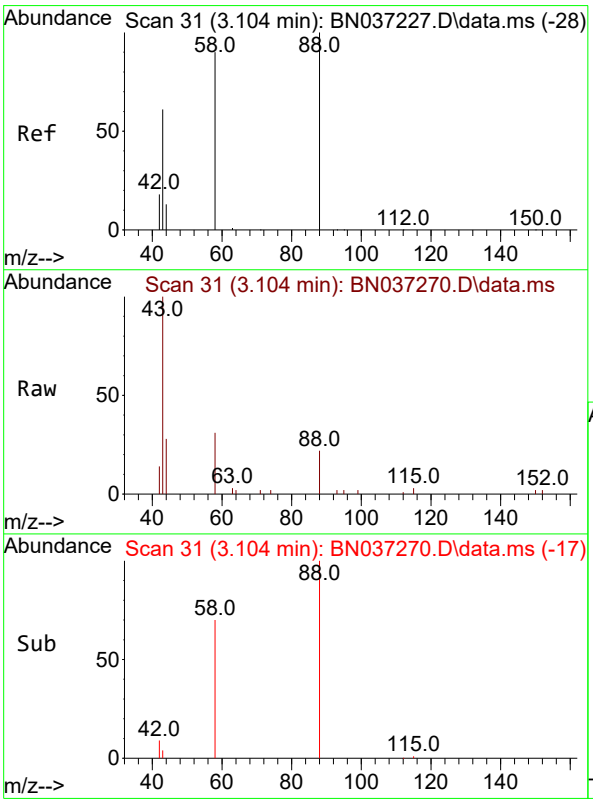
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Instrument :
BNA_N
ClientSampleId :
PB168458BS

Tgt Ion:152 Resp: 1588

Ion	Ratio	Lower	Upper
152	100		
150	150.5	125.2	187.8
115	70.2	58.4	87.6

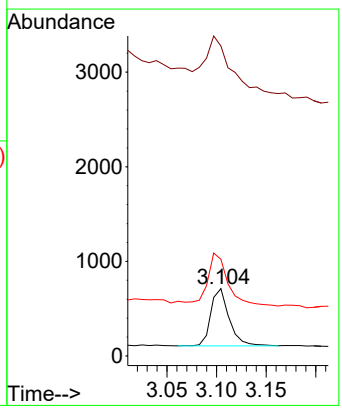


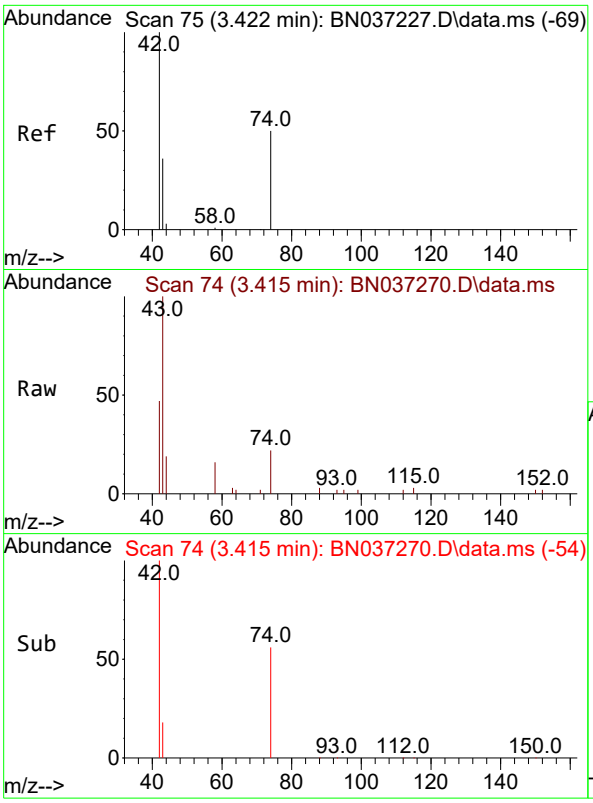


#2
1,4-Dioxane
Concen: 0.358 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Tgt Ion: 88 Resp: 779

Ion	Ratio	Lower	Upper
88	100		
43	177.2	52.6	79.0#
58	103.1	73.5	110.3



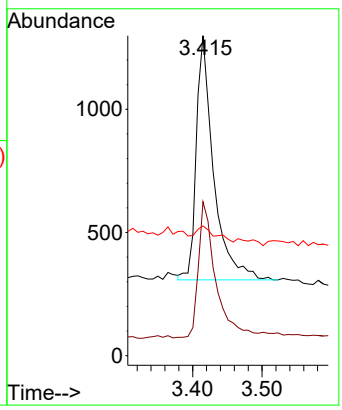


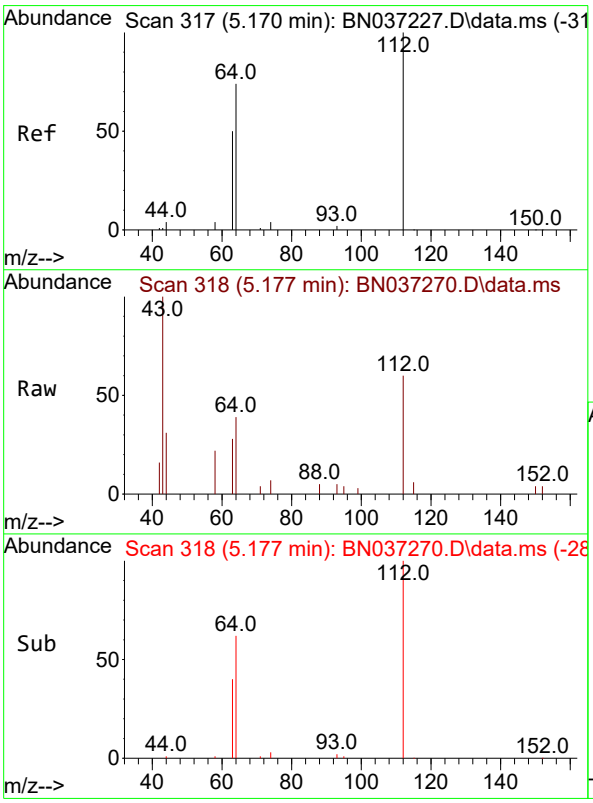
#3
n-Nitrosodimethylamine
Concen: 0.346 ng
RT: 3.415 min Scan# 7
Delta R.T. -0.007 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Instrument :
BNA_N
ClientSampleId :
PB168458BS

Tgt Ion: 42 Resp: 1716

Ion	Ratio	Lower	Upper
42	100		
74	54.8	44.6	66.8
44	7.2	3.5	5.3#

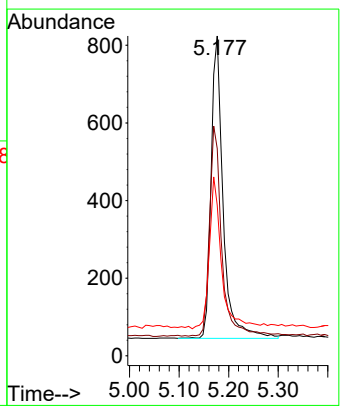


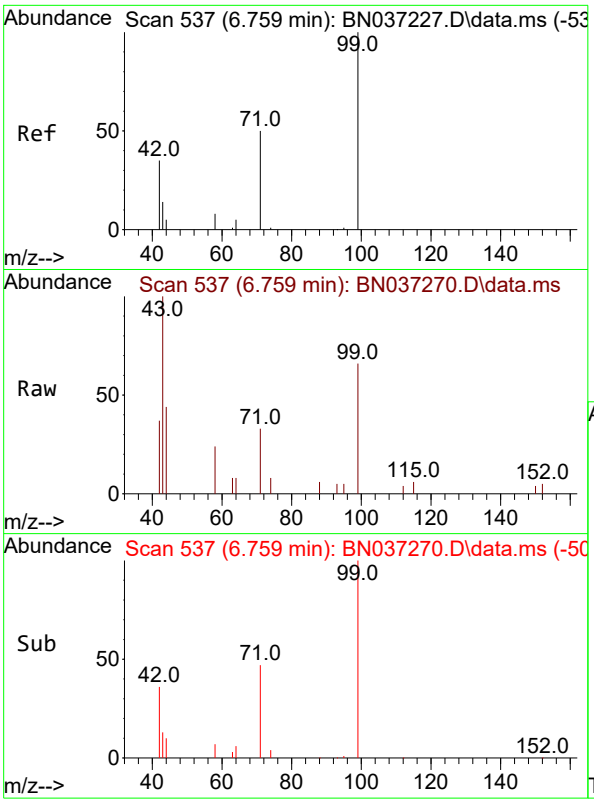


#4
2-Fluorophenol
Concen: 0.338 ng
RT: 5.177 min Scan# 318
Delta R.T. 0.007 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Tgt Ion:112 Resp: 1318

Ion	Ratio	Lower	Upper
112	100		
64	70.6	57.2	85.8
63	50.7	39.8	59.6



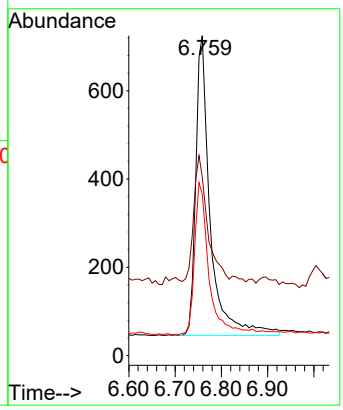


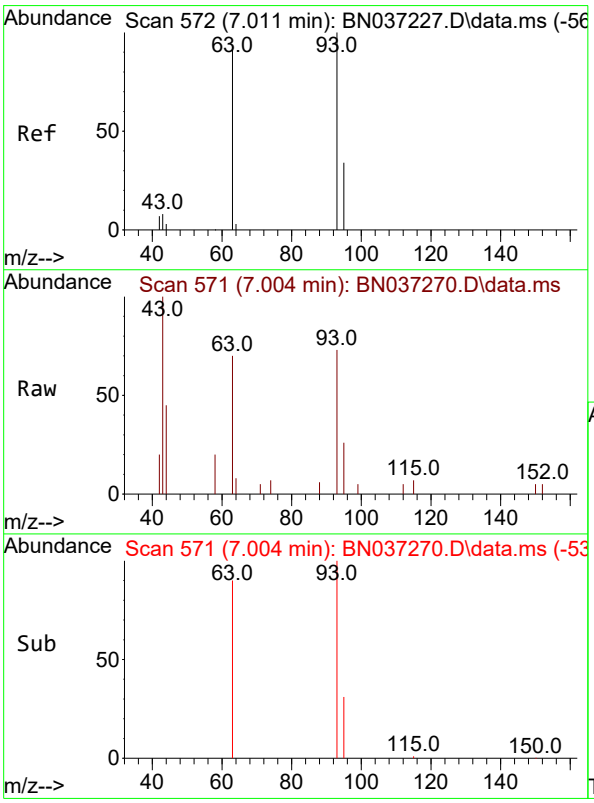
#5
Phenol-d6
Concen: 0.358 ng
RT: 6.759 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Instrument :
BNA_N
ClientSampleId :
PB168458BS

Tgt Ion: 99 Resp: 1473

Ion	Ratio	Lower	Upper
99	100		
42	40.4	36.2	54.4
71	51.6	42.4	63.6

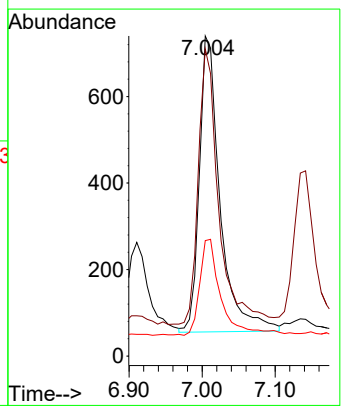


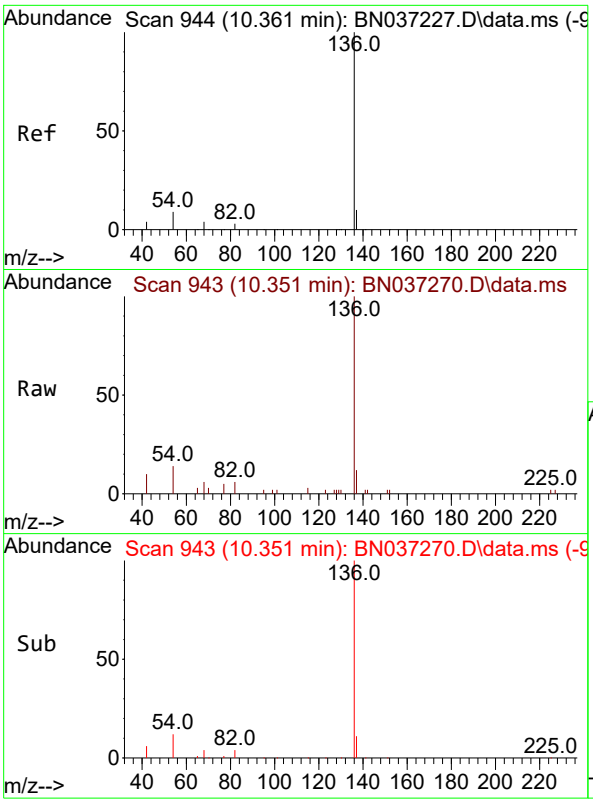


#6
bis(2-Chloroethyl)ether
Concen: 0.367 ng
RT: 7.004 min Scan# 571
Delta R.T. -0.007 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Tgt Ion: 93 Resp: 1351

Ion	Ratio	Lower	Upper
93	100		
63	91.2	75.2	112.8
95	32.8	28.3	42.5



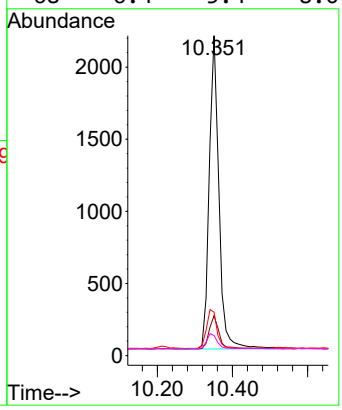


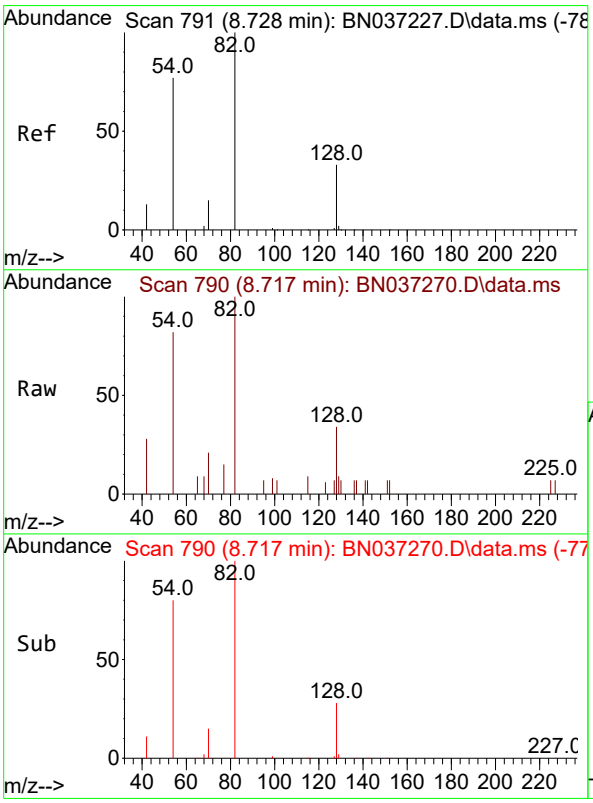
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Instrument :
BNA_N
ClientSampleId :
PB168458BS

Tgt Ion:136 Resp: 3911

Ion	Ratio	Lower	Upper
136	100		
137	12.5	10.6	15.8
54	13.6	9.2	13.8
68	6.4	5.4	8.0

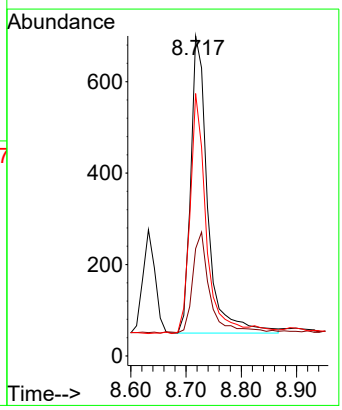


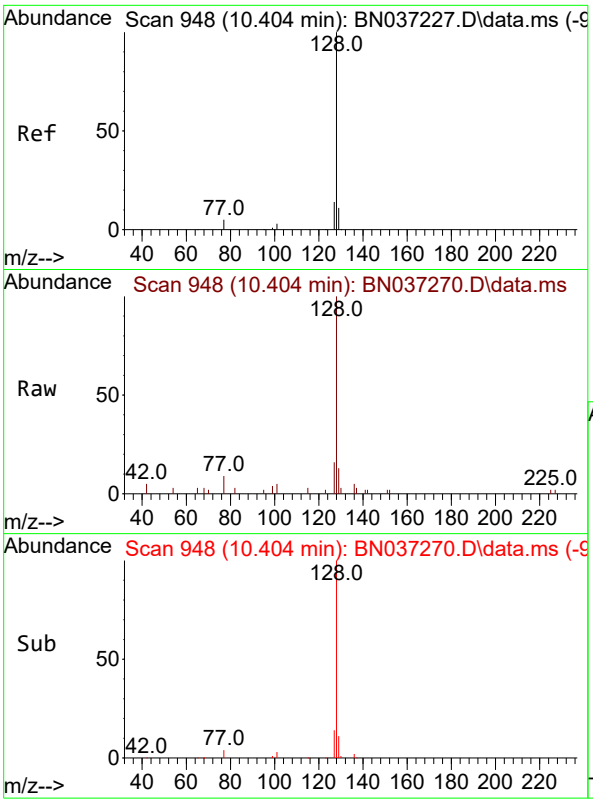


#8
Nitrobenzene-d5
Concen: 0.360 ng
RT: 8.717 min Scan# 790
Delta R.T. -0.011 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Tgt Ion: 82 Resp: 1391

Ion	Ratio	Lower	Upper
82	100		
128	33.6	31.2	46.8
54	82.0	63.3	94.9



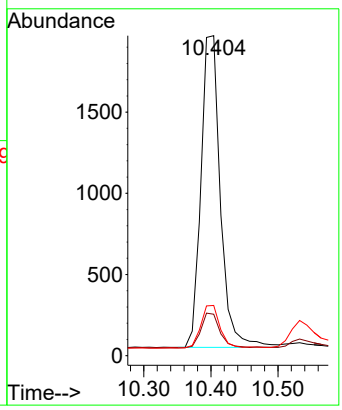


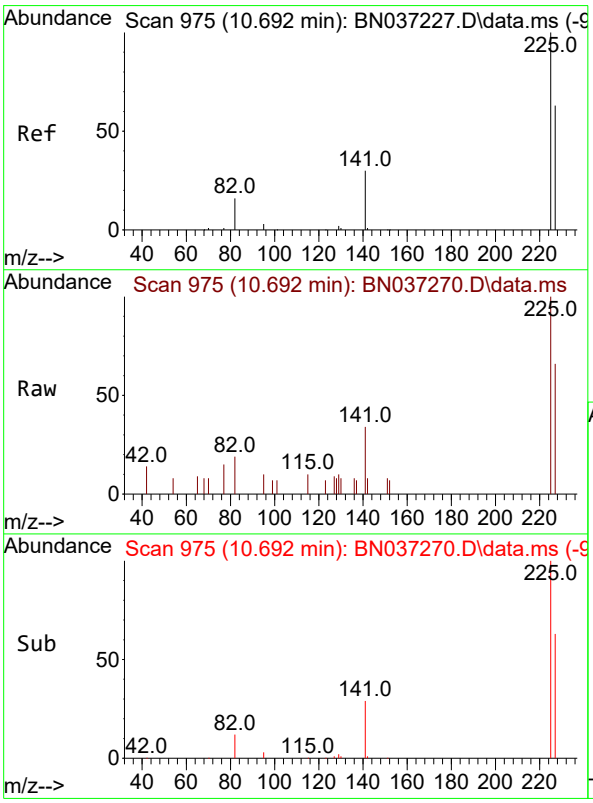
#9
Naphthalene
Concen: 0.341 ng
RT: 10.404 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Instrument :
BNA_N
ClientSampleId :
PB168458BS

Tgt Ion:128 Resp: 3863

Ion	Ratio	Lower	Upper
128	100		
129	12.9	10.7	16.1
127	15.7	12.6	19.0

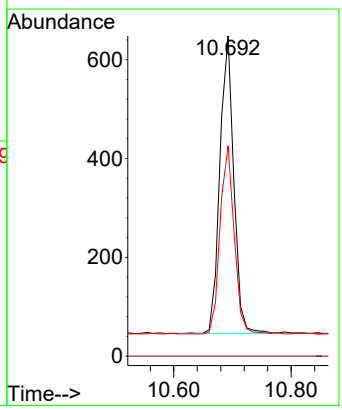


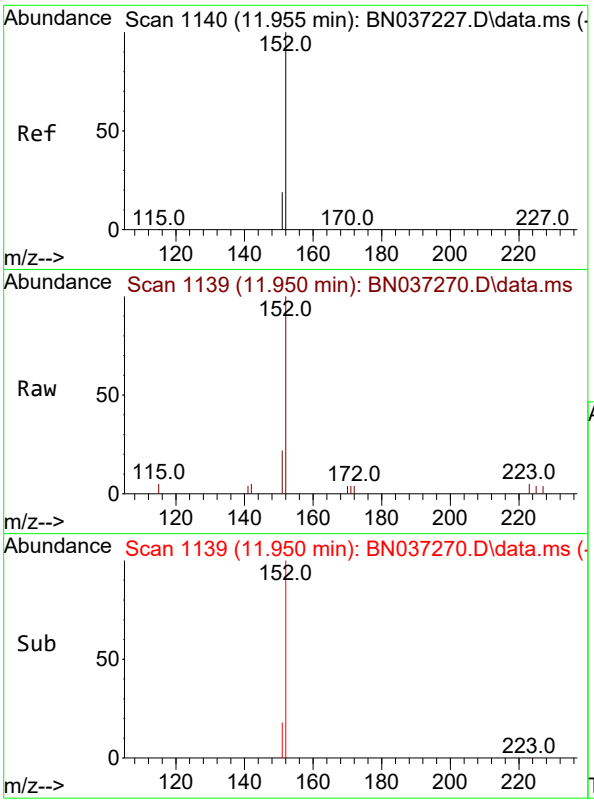


#10
Hexachlorobutadiene
Concen: 0.357 ng
RT: 10.692 min Scan# 975
Delta R.T. 0.000 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Tgt Ion:225 Resp: 984

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.4	49.2	73.8



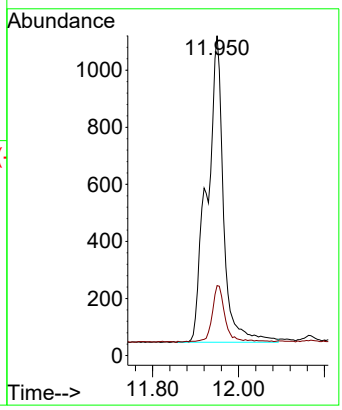


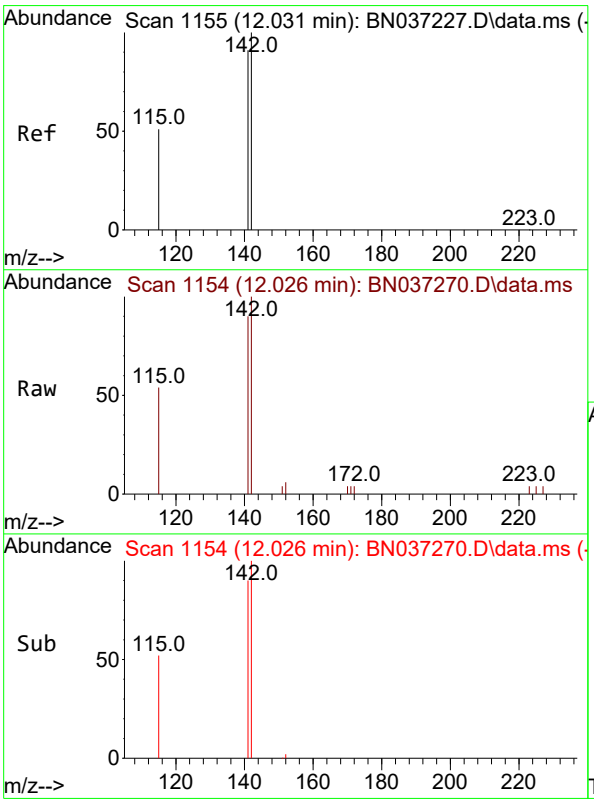
#11
2-Methylnaphthalene-d10
Concen: 0.544 ng
RT: 11.950 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Instrument :
BNA_N
ClientSampleId :
PB168458BS

Tgt Ion:152 Resp: 2854

Ion	Ratio	Lower	Upper
152	100		
151	13.8	17.9	26.9#

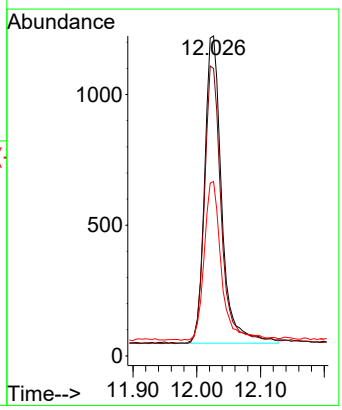


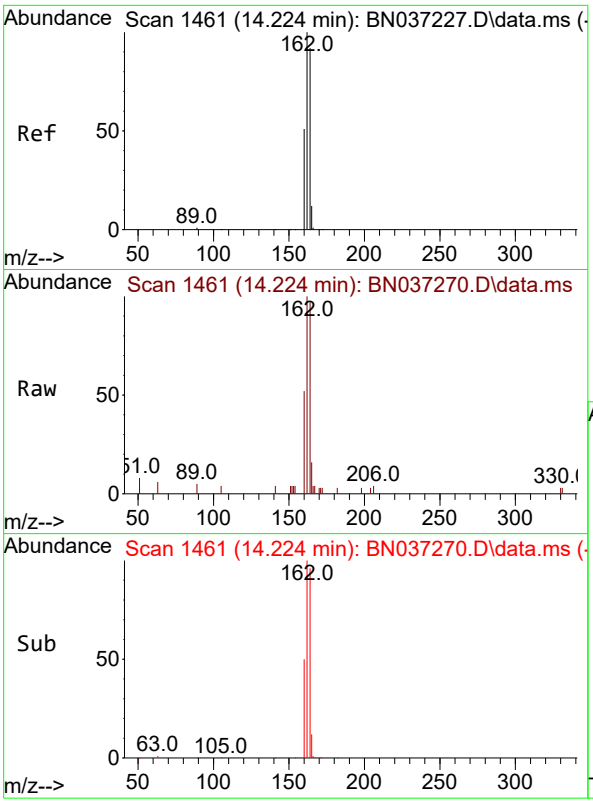


#12
2-Methylnaphthalene
Concen: 0.317 ng
RT: 12.026 min Scan# 1154
Delta R.T. -0.005 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Tgt Ion:142 Resp: 2180

Ion	Ratio	Lower	Upper
142	100		
141	89.9	73.0	109.6
115	54.5	43.3	64.9



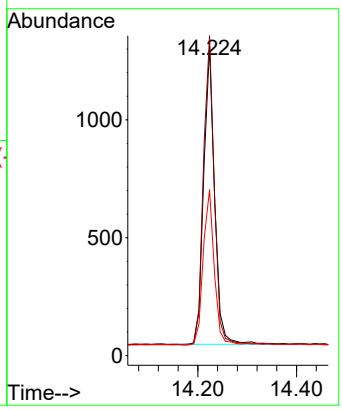


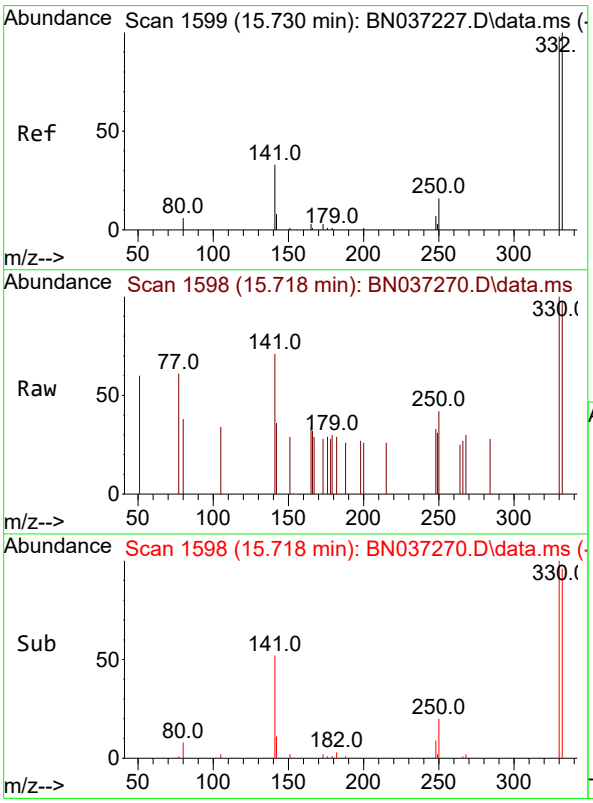
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Instrument :
BNA_N
ClientSampleId :
PB168458BS

Tgt Ion:164 Resp: 1944

Ion	Ratio	Lower	Upper
164	100		
162	103.5	86.7	130.1
160	53.7	45.8	68.6

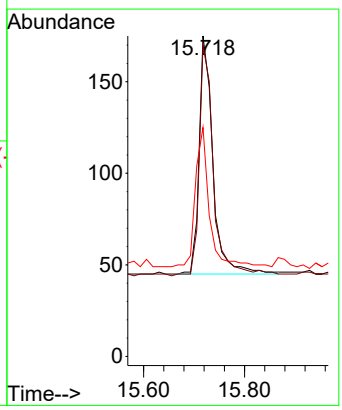


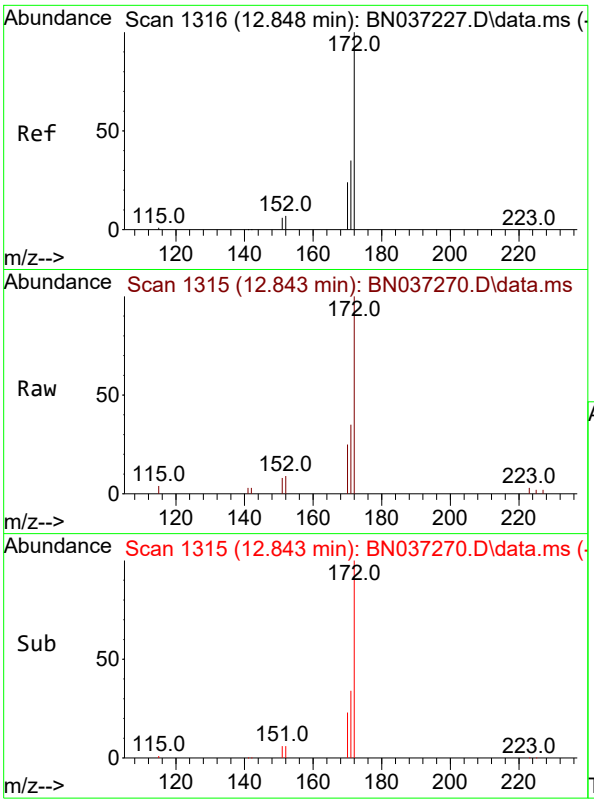


#14
2,4,6-Tribromophenol
Concen: 0.306 ng
RT: 15.718 min Scan# 1598
Delta R.T. -0.012 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Tgt Ion:330 Resp: 247

Ion	Ratio	Lower	Upper
330	100		
332	100.8	74.9	112.3
141	57.9	45.1	67.7



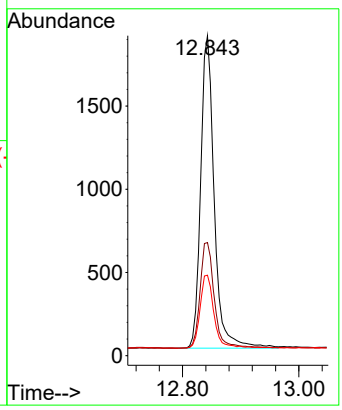


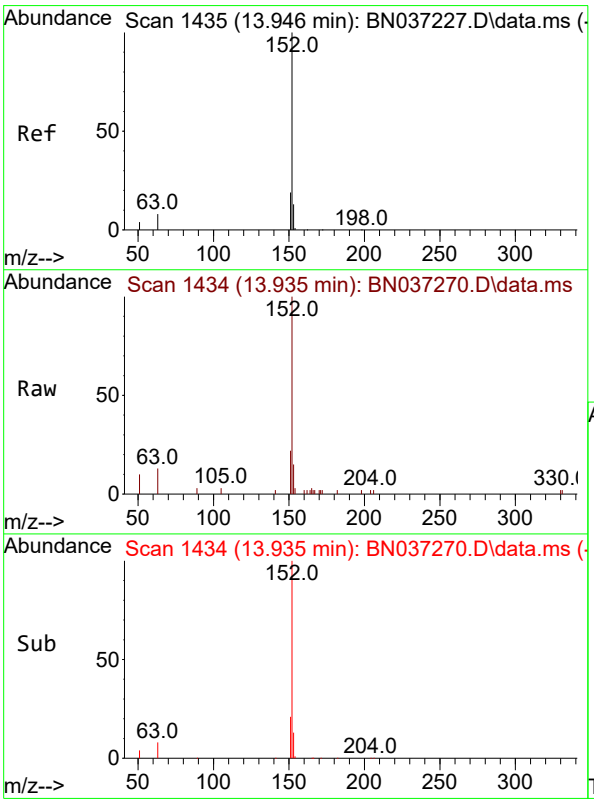
#15
2-Fluorobiphenyl
Concen: 0.373 ng
RT: 12.843 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Instrument :
BNA_N
ClientSampleId :
PB168458BS

Tgt Ion:172 Resp: 3044

Ion	Ratio	Lower	Upper
172	100		
171	35.4	29.8	44.8
170	25.1	21.1	31.7

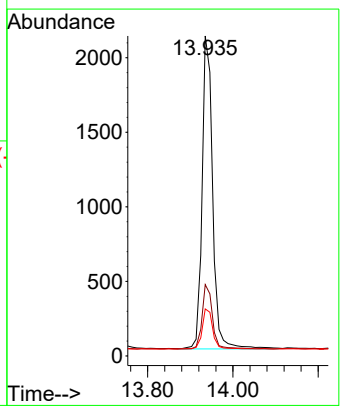


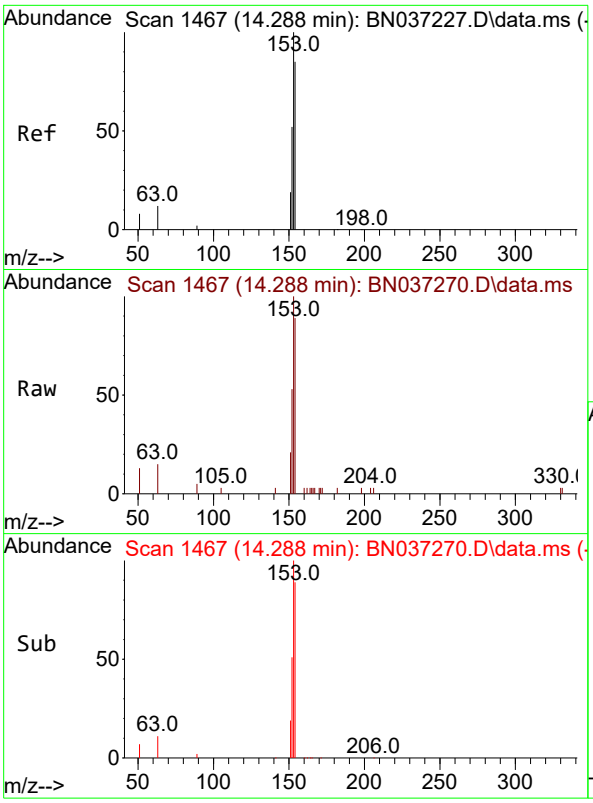


#16
Acenaphthylene
Concen: 0.379 ng
RT: 13.935 min Scan# 1434
Delta R.T. -0.011 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Tgt Ion:152 Resp: 3608

Ion	Ratio	Lower	Upper
152	100		
151	19.7	15.7	23.5
153	12.9	10.7	16.1



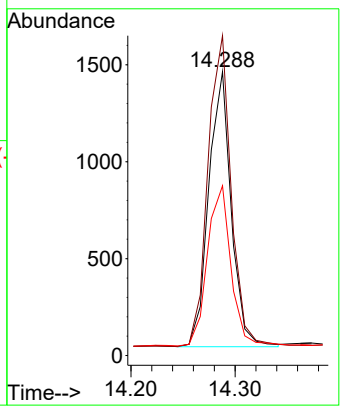


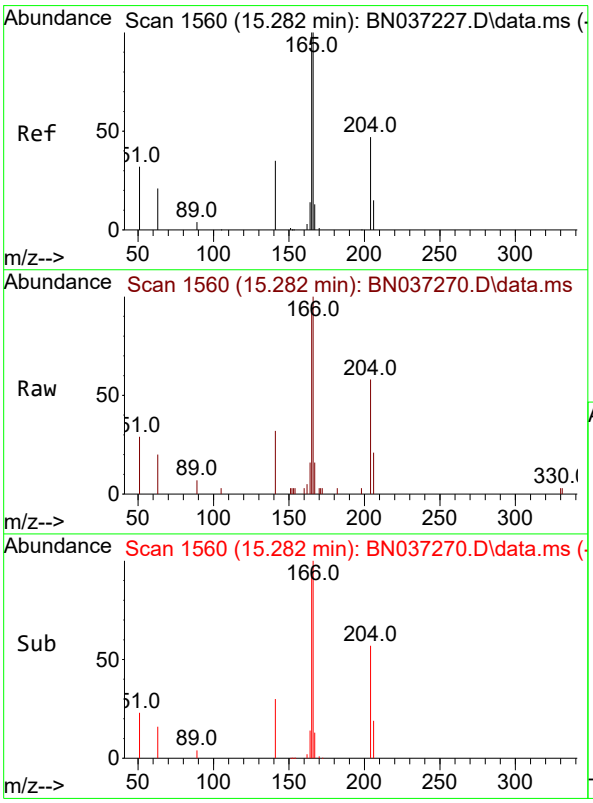
#17
Acenaphthene
Concen: 0.346 ng
RT: 14.288 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Instrument :
BNA_N
ClientSampleId :
PB168458BS

Tgt Ion:154 Resp: 2128

Ion	Ratio	Lower	Upper
154	100		
153	116.9	94.6	141.8
152	61.9	49.6	74.4

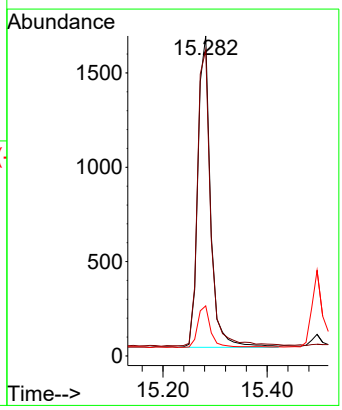


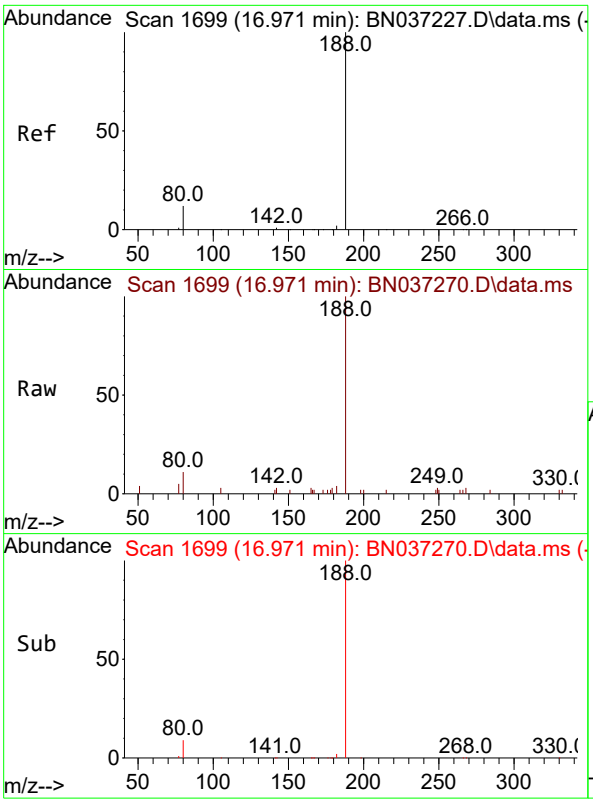


#18
Fluorene
Concen: 0.354 ng
RT: 15.282 min Scan# 1560
Delta R.T. 0.000 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Tgt Ion:166 Resp: 2799

Ion	Ratio	Lower	Upper
166	100		
165	98.9	79.8	119.6
167	13.6	10.8	16.2



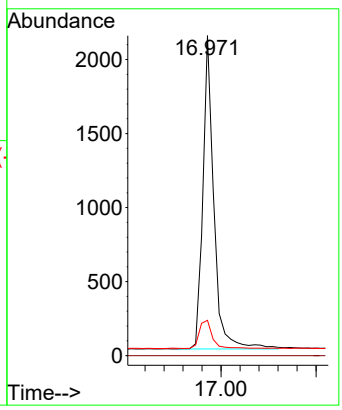


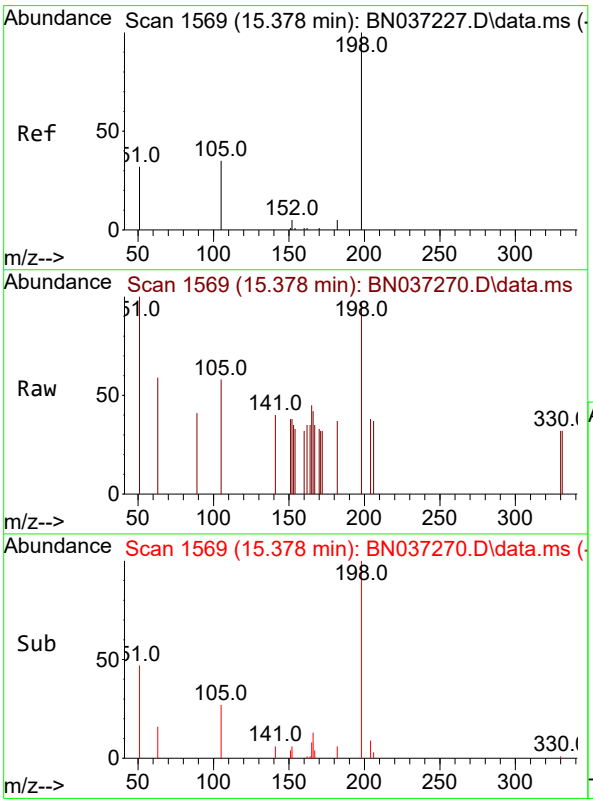
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Instrument :
BNA_N
ClientSampleId :
PB168458BS

Tgt Ion:188 Resp: 3410

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.1	12.2	18.4#

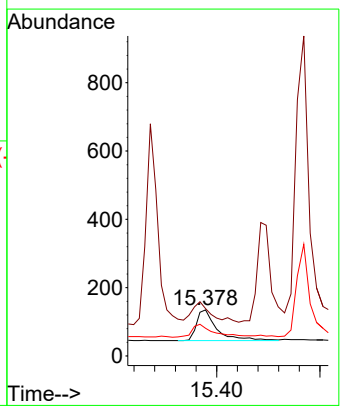


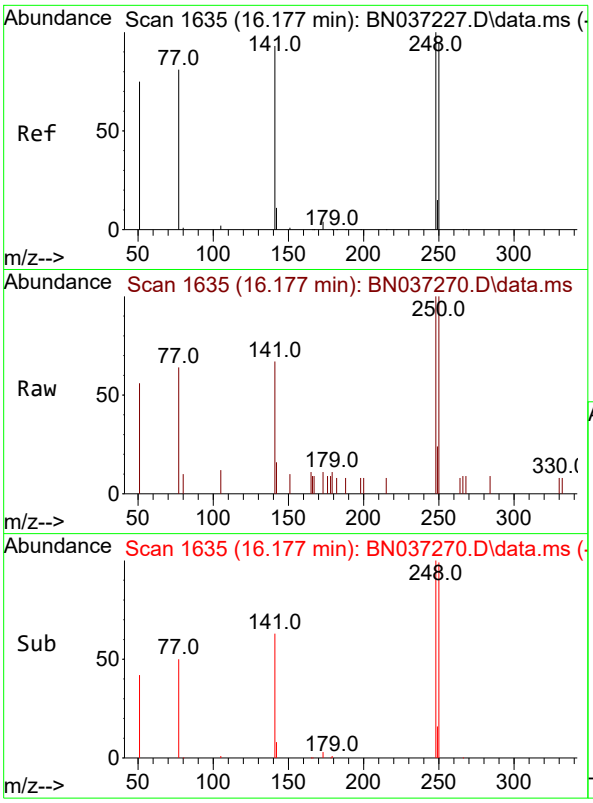


#20
4,6-Dinitro-2-methylphenol
Concen: 0.394 ng
RT: 15.378 min Scan# 1569
Delta R.T. 0.000 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Tgt Ion:198 Resp: 248

Ion	Ratio	Lower	Upper
198	100		
51	103.0	111.2	166.8#
105	60.0	54.0	81.0



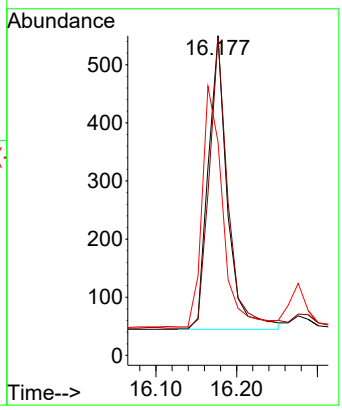


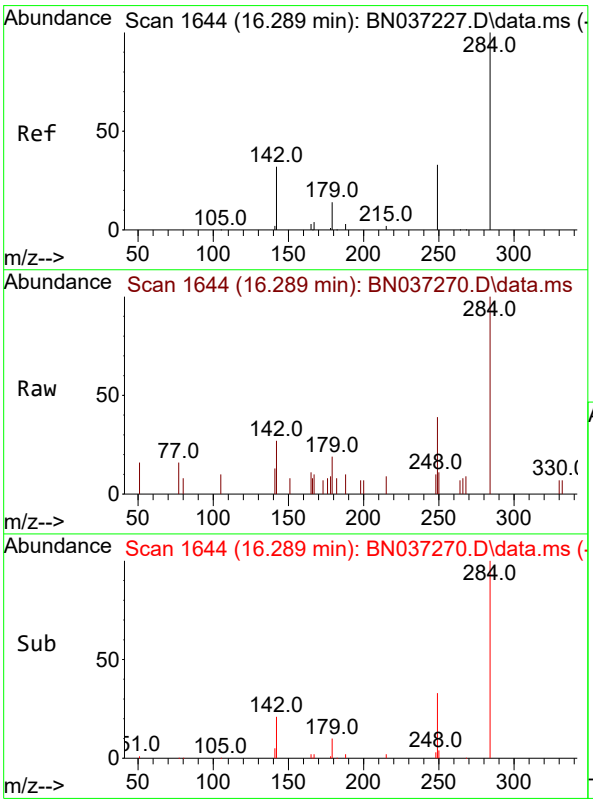
#21
4-Bromophenyl-phenylether
Concen: 0.374 ng
RT: 16.177 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Instrument :
BNA_N
ClientSampleId :
PB168458BS

Tgt Ion:248 Resp: 830

Ion	Ratio	Lower	Upper
248	100		
250	99.6	76.8	115.2
141	66.7	75.6	113.4#

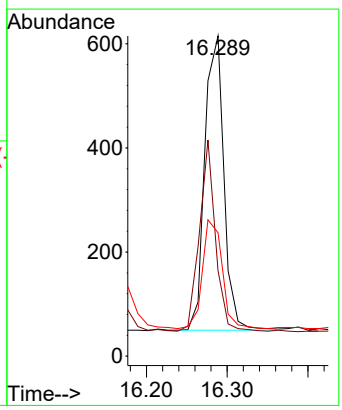


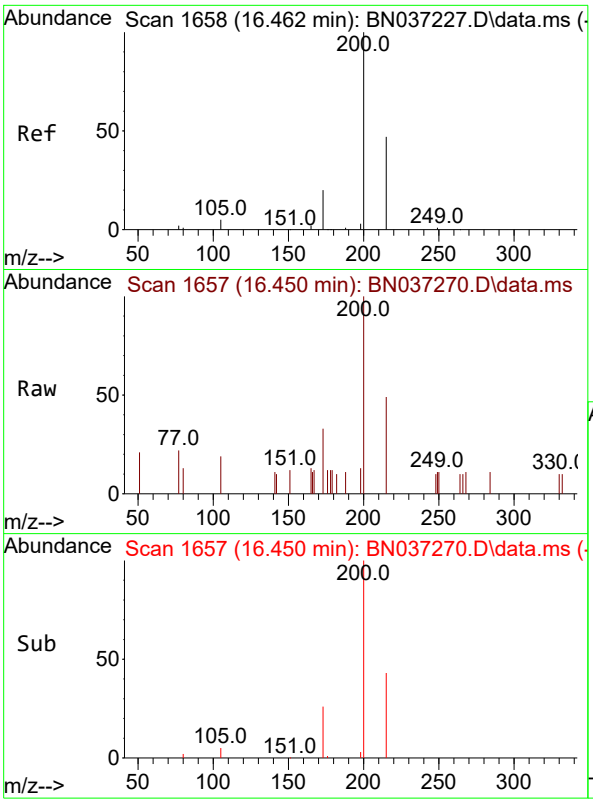


#22
Hexachlorobenzene
Concen: 0.360 ng
RT: 16.289 min Scan# 1644
Delta R.T. 0.000 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Tgt Ion:284 Resp: 927

Ion	Ratio	Lower	Upper
284	100		
142	54.5	43.8	65.6
249	38.4	28.4	42.6



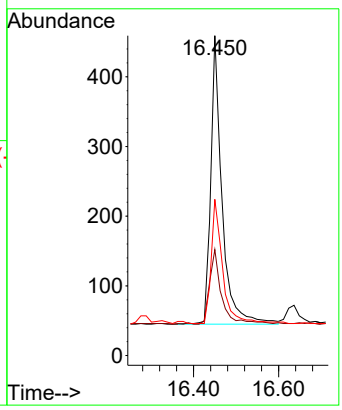


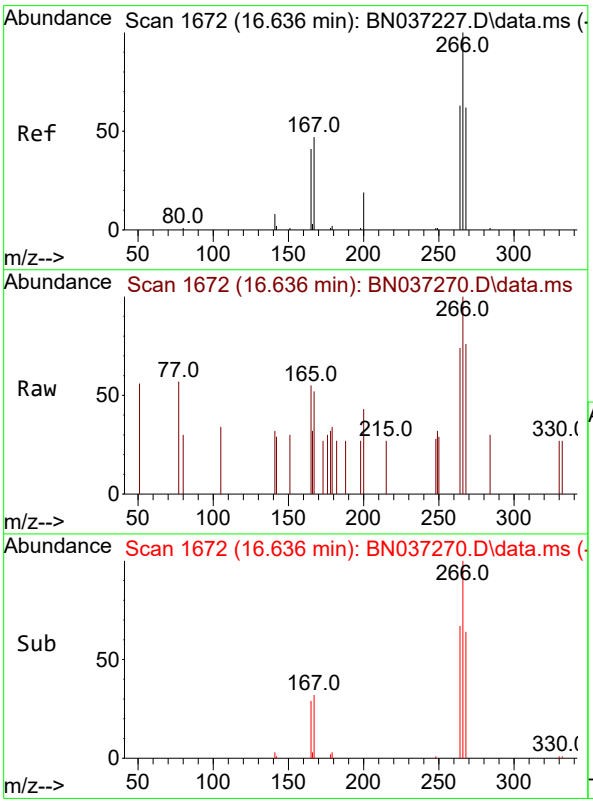
#23
Atrazine
Concen: 0.383 ng
RT: 16.450 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Instrument :
BNA_N
ClientSampleId :
PB168458BS

Tgt Ion:200 Resp: 760

Ion	Ratio	Lower	Upper
200	100		
173	33.1	25.1	37.7
215	48.8	43.7	65.5

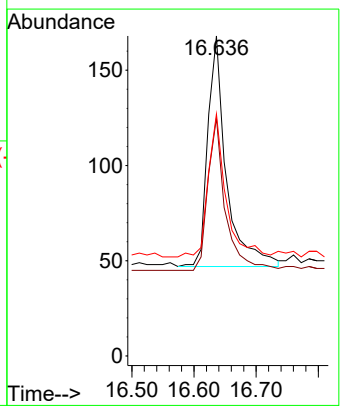


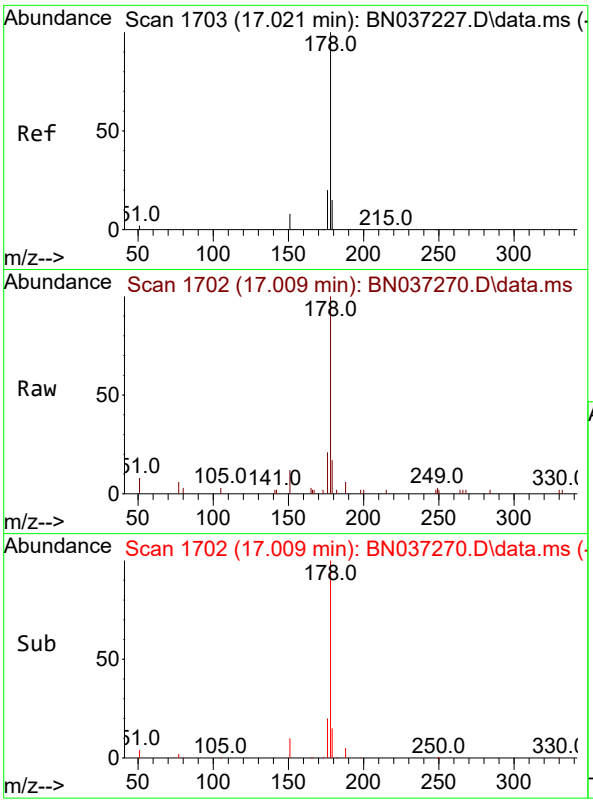


#24
Pentachlorophenol
Concen: 0.200 ng
RT: 16.636 min Scan# 1672
Delta R.T. 0.000 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Tgt Ion:266 Resp: 252

Ion	Ratio	Lower	Upper
266	100		
264	61.9	49.2	73.8
268	58.7	53.4	80.2



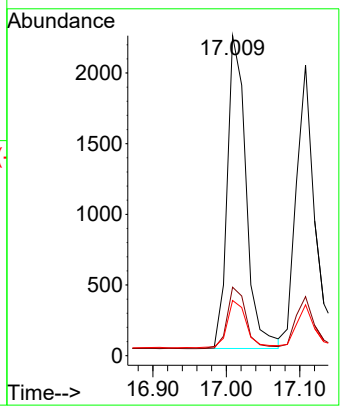


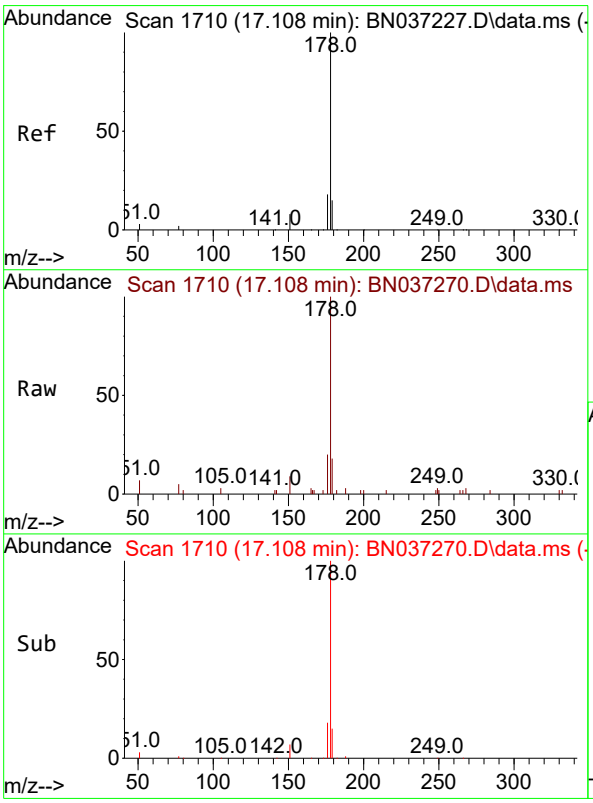
#25
Phenanthrene
Concen: 0.364 ng
RT: 17.009 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Instrument :
BNA_N
ClientSampleId :
PB168458BS

Tgt Ion:178 Resp: 3936

Ion	Ratio	Lower	Upper
178	100		
176	19.8	16.3	24.5
179	15.9	12.6	18.8

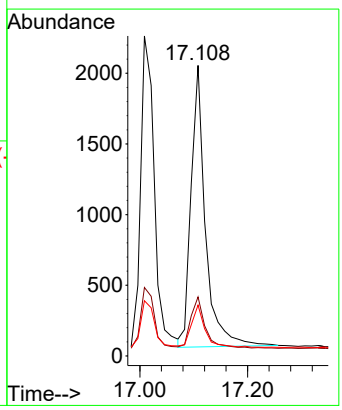


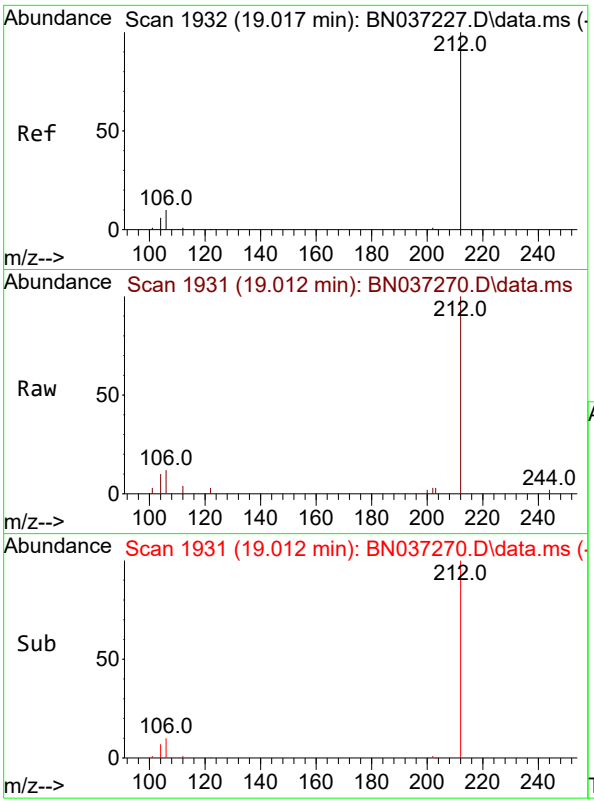


#26
Anthracene
Concen: 0.373 ng
RT: 17.108 min Scan# 1710
Delta R.T. 0.000 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Tgt Ion:178 Resp: 3696

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.1	22.7
179	14.5	12.4	18.6



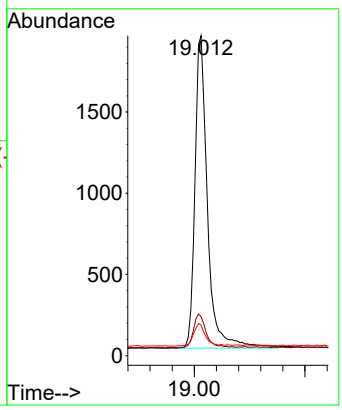


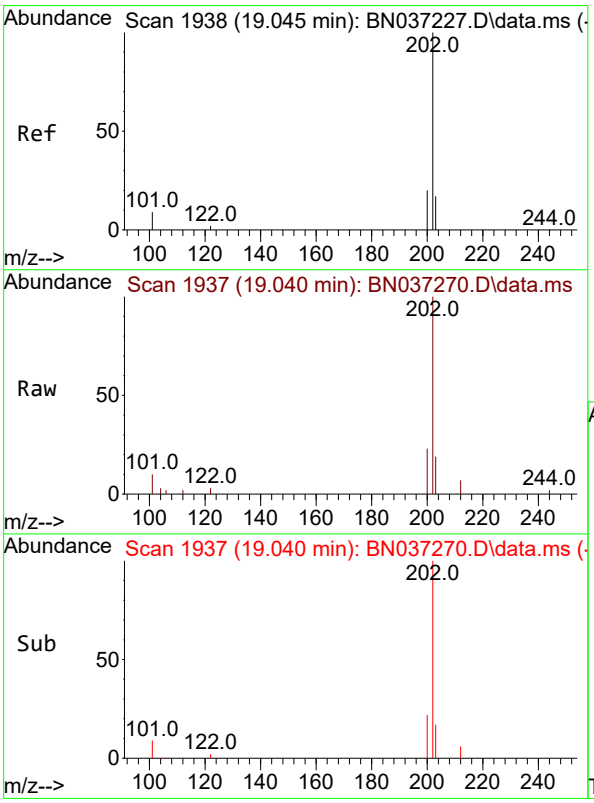
#27
Fluoranthene-d10
Concen: 0.340 ng
RT: 19.012 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Instrument :
BNA_N
ClientSampleId :
PB168458BS

Tgt Ion:212 Resp: 3035

Ion	Ratio	Lower	Upper
212	100		
106	10.8	9.3	13.9
104	7.3	5.7	8.5

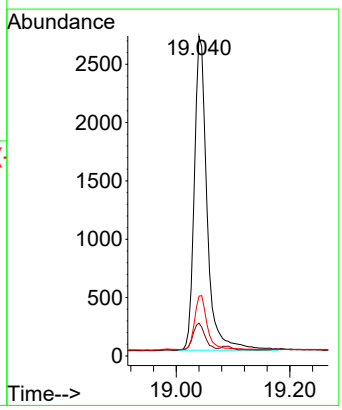


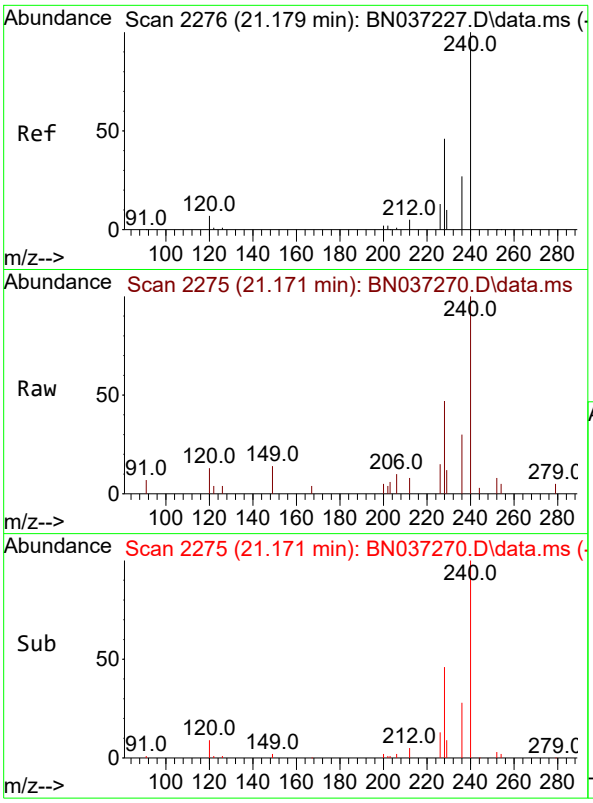


#28
Fluoranthene
Concen: 0.331 ng
RT: 19.040 min Scan# 1937
Delta R.T. -0.005 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Tgt Ion:202 Resp: 4192

Ion	Ratio	Lower	Upper
202	100		
101	8.3	7.1	10.7
203	17.2	13.0	19.6



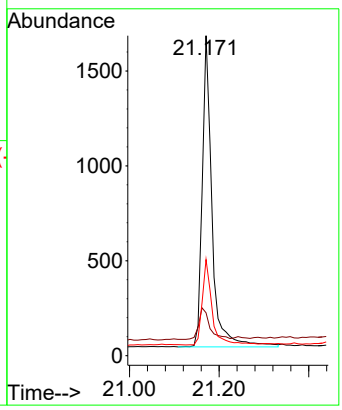


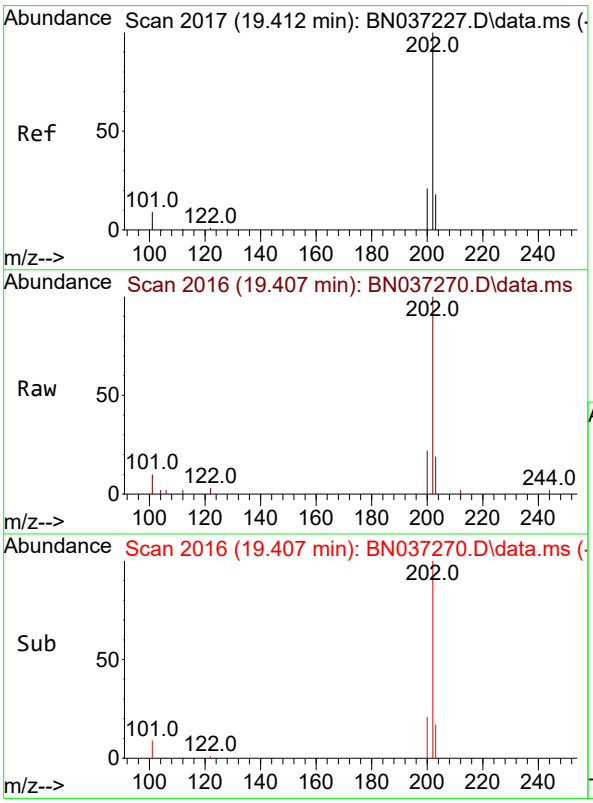
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.171 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Instrument :
BNA_N
ClientSampleId :
PB168458BS

Tgt Ion:240 Resp: 2495

Ion	Ratio	Lower	Upper
240	100		
120	13.4	11.3	16.9
236	30.0	24.4	36.6

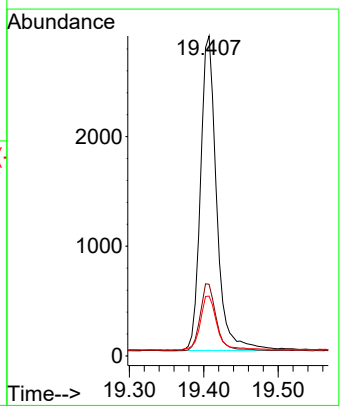


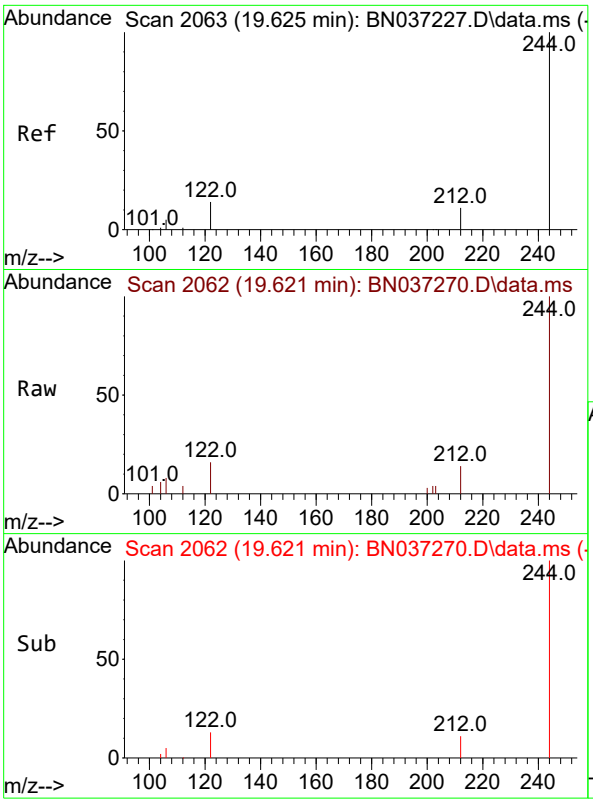


#30
Pyrene
Concen: 0.368 ng
RT: 19.407 min Scan# 2016
Delta R.T. -0.005 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Tgt Ion:202 Resp: 4321

Ion	Ratio	Lower	Upper
202	100		
200	21.5	17.2	25.8
203	18.0	14.3	21.5



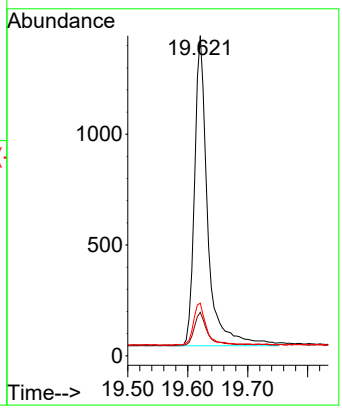


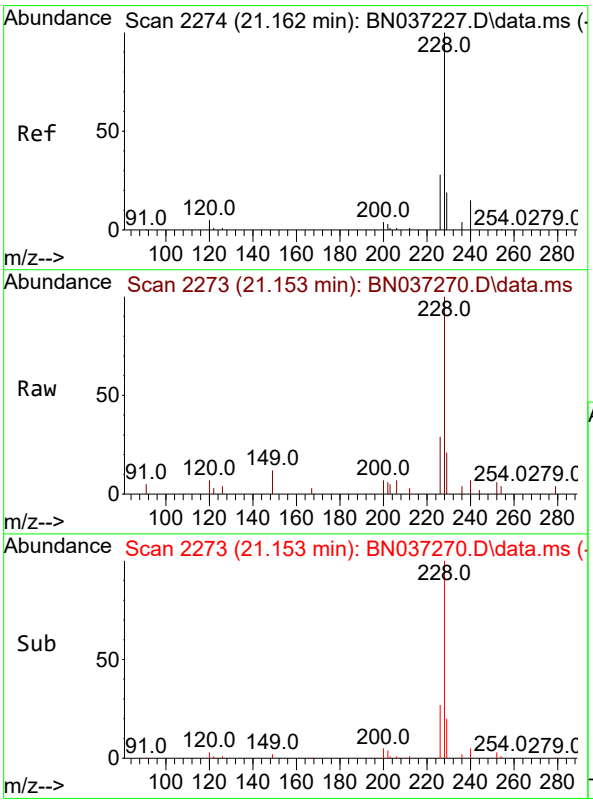
#31
Terphenyl-d14
Concen: 0.378 ng
RT: 19.621 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Instrument :
BNA_N
ClientSampleId :
PB168458BS

Tgt Ion:244 Resp: 2131

Ion	Ratio	Lower	Upper
244	100		
212	13.6	12.2	18.2
122	16.4	14.3	21.5

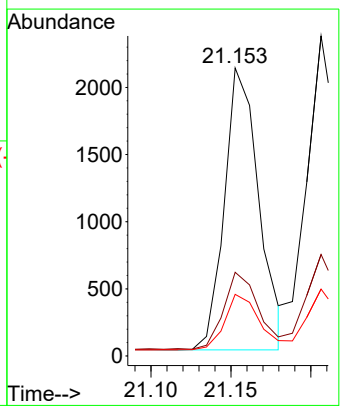


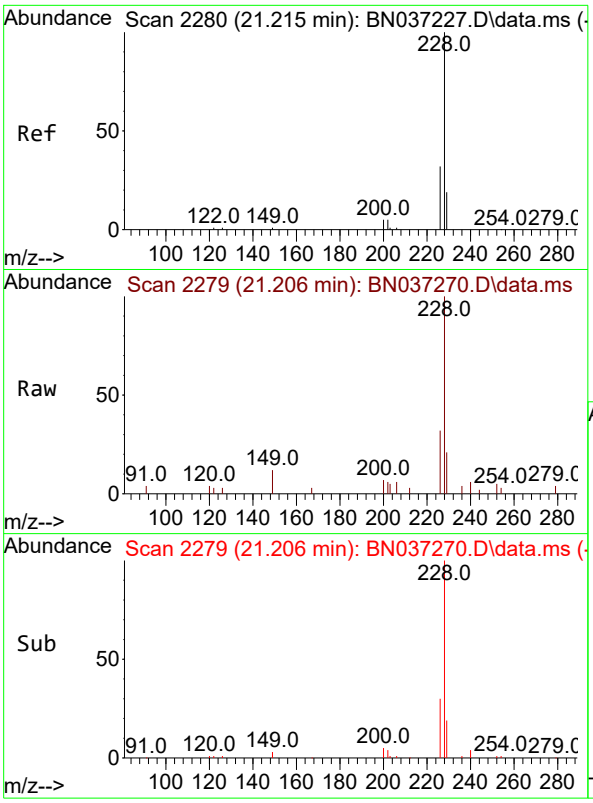


#32
Benzo(a)anthracene
Concen: 0.375 ng
RT: 21.153 min Scan# 2273
Delta R.T. -0.009 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Tgt Ion:228 Resp: 3158

Ion	Ratio	Lower	Upper
228	100		
226	29.1	23.8	35.8
229	21.4	17.0	25.4



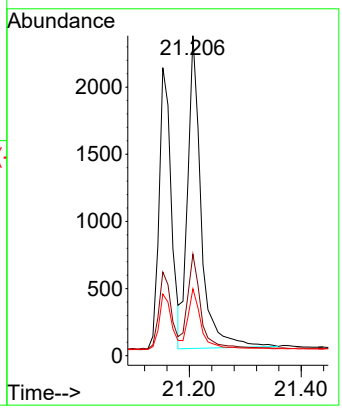


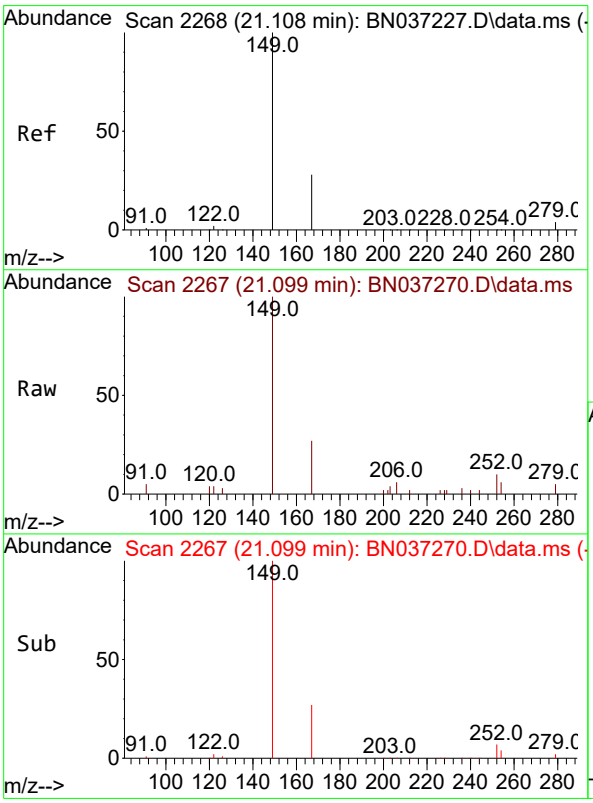
#33
Chrysene
Concen: 0.369 ng
RT: 21.206 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Instrument :
BNA_N
ClientSampleId :
PB168458BS

Tgt Ion:228 Resp: 3873

Ion	Ratio	Lower	Upper
228	100		
226	31.7	25.8	38.6
229	20.9	17.0	25.4

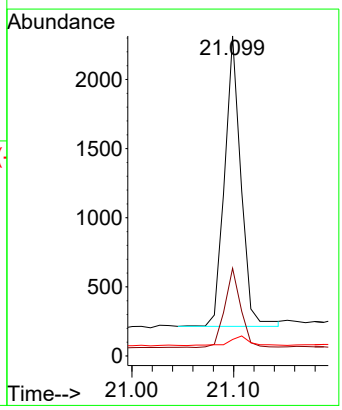


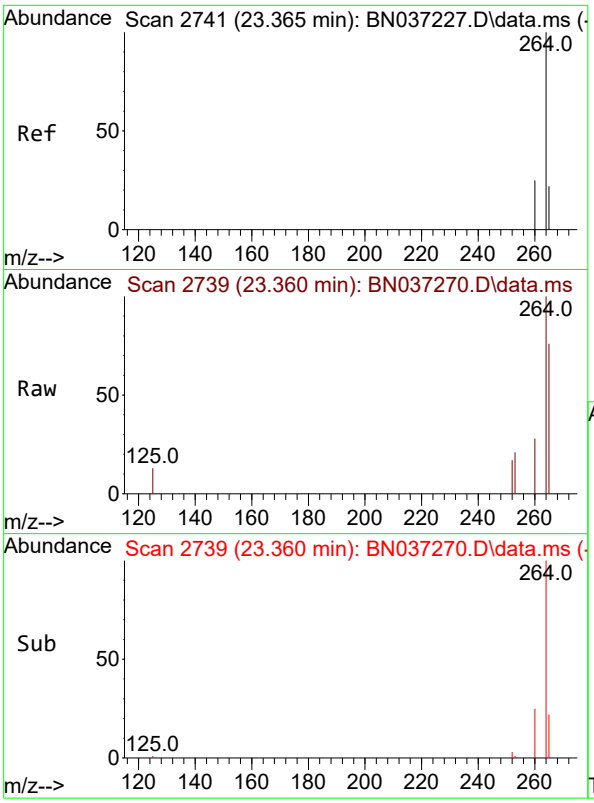


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.373 ng
RT: 21.099 min Scan# 2267
Delta R.T. -0.009 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Tgt Ion:149 Resp: 2339

Ion	Ratio	Lower	Upper
149	100		
167	26.5	21.3	31.9
279	3.8	3.3	4.9



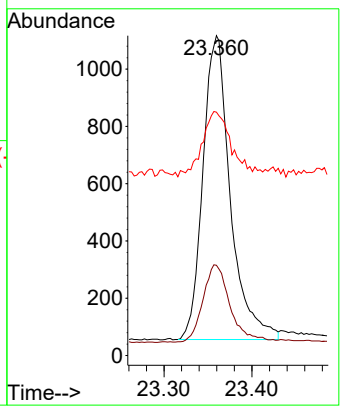


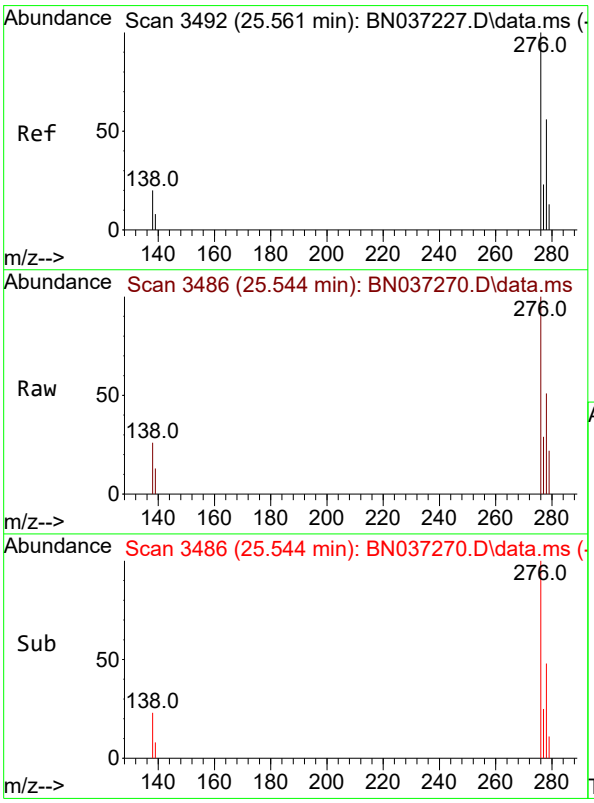
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.360 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Instrument :
BNA_N
ClientSampleId :
PB168458BS

Tgt Ion:264 Resp: 2298

Ion	Ratio	Lower	Upper
264	100		
260	28.2	22.8	34.2
265	76.1	66.4	99.6

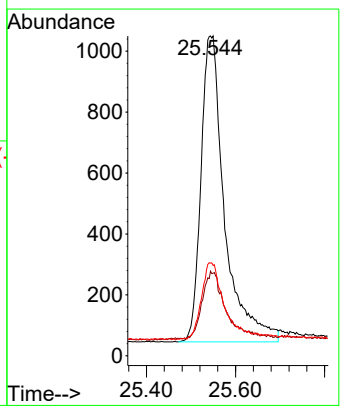


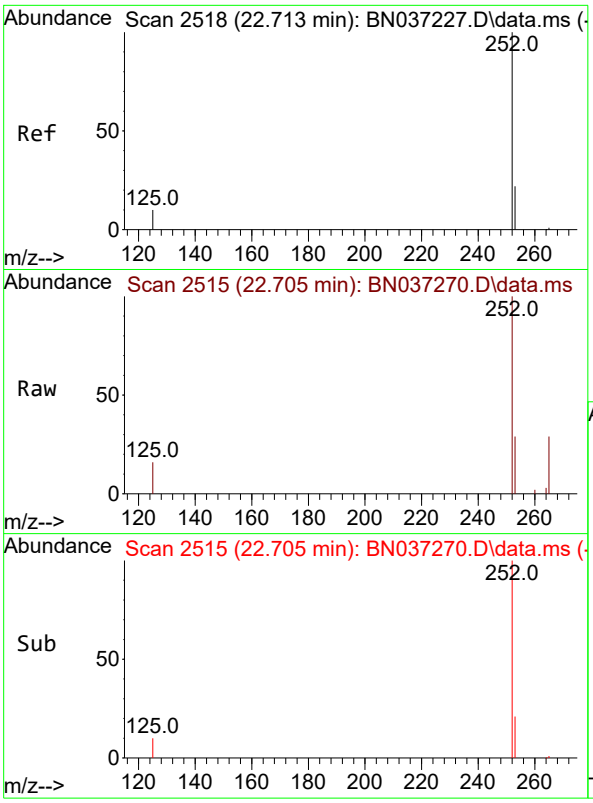


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.400 ng
RT: 25.544 min Scan# 3486
Delta R.T. -0.017 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Tgt Ion:276 Resp: 3705

Ion	Ratio	Lower	Upper
276	100		
138	21.3	16.8	25.2
277	24.4	19.5	29.3



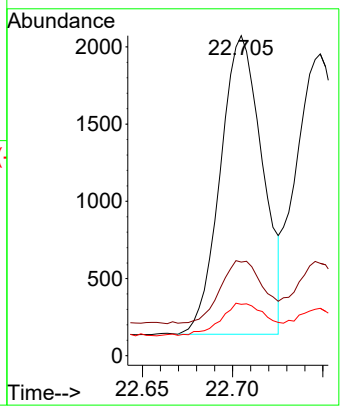


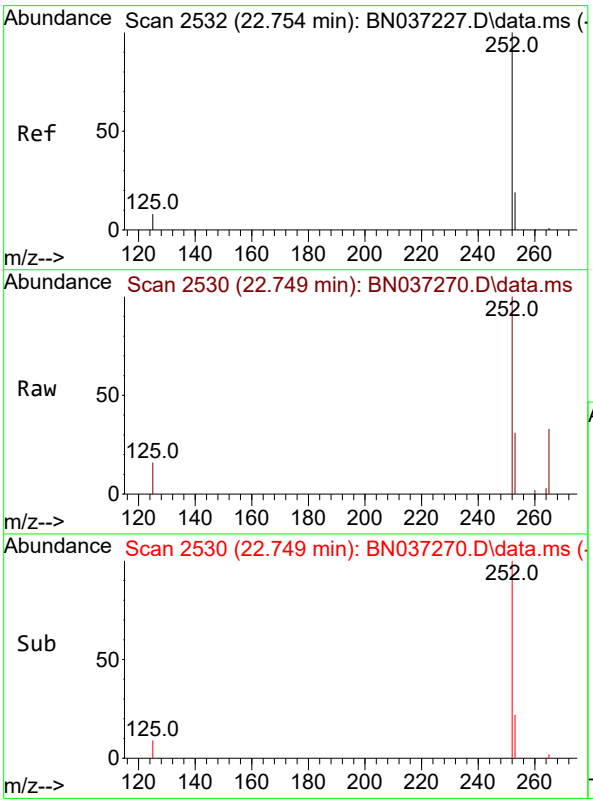
#37
Benzo(b)fluoranthene
Concen: 0.374 ng
RT: 22.705 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Instrument :
BNA_N
ClientSampleId :
PB168458BS

Tgt Ion:252 Resp: 3140

Ion	Ratio	Lower	Upper
252	100		
253	29.2	24.9	37.3
125	16.1	12.9	19.3

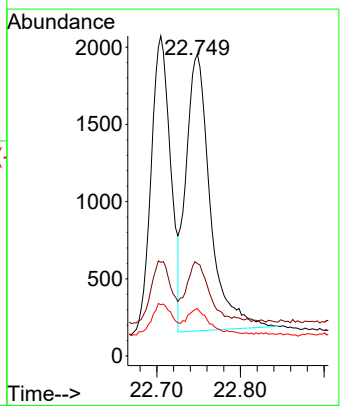


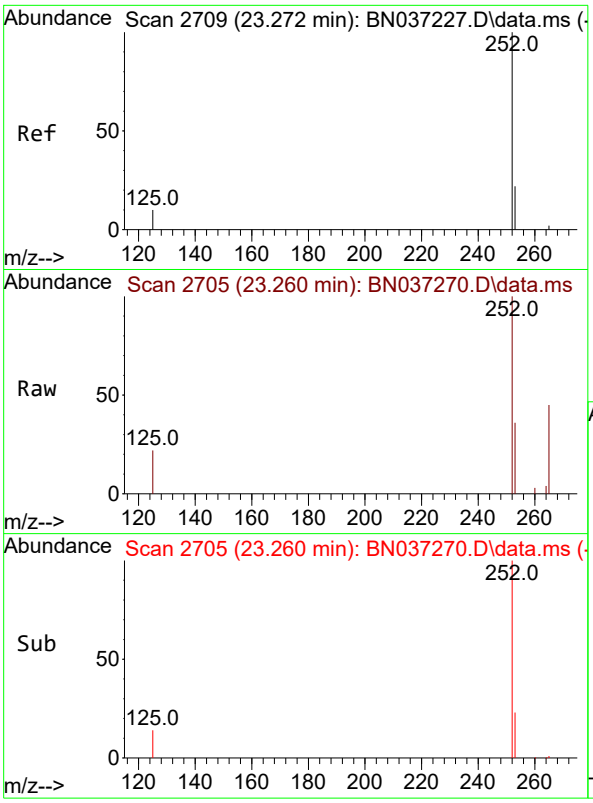


#38
Benzo(k)fluoranthene
Concen: 0.372 ng
RT: 22.749 min Scan# 2530
Delta R.T. -0.006 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Tgt Ion:252 Resp: 3614

Ion	Ratio	Lower	Upper
252	100		
253	30.6	24.6	37.0
125	15.7	13.4	20.2



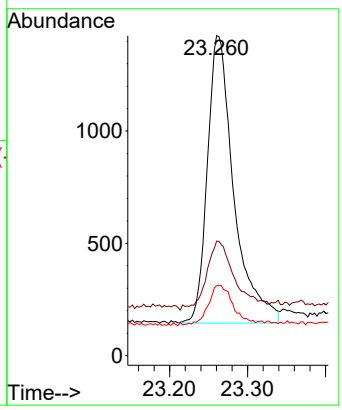


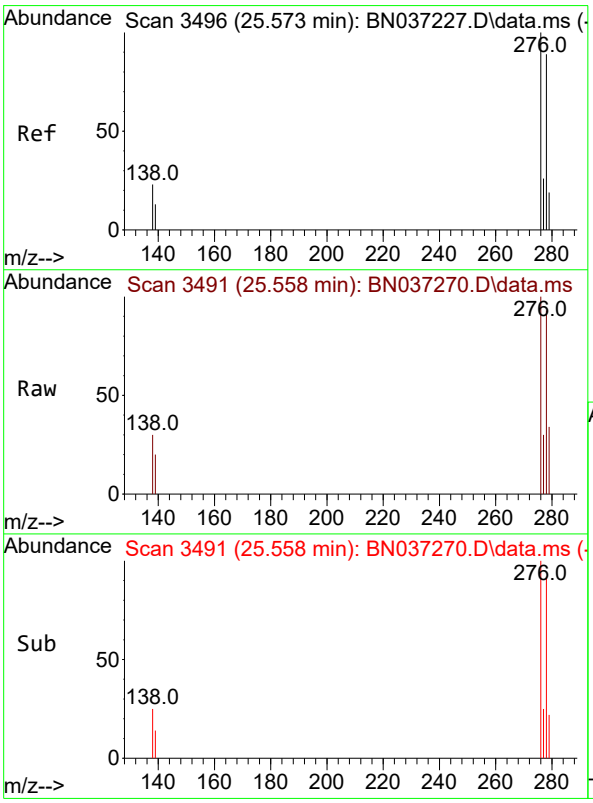
#39
Benzo(a)pyrene
Concen: 0.401 ng
RT: 23.260 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Instrument :
BNA_N
ClientSampleId :
PB168458BS

Tgt Ion:252 Resp: 3030

Ion	Ratio	Lower	Upper
252	100		
253	35.8	29.4	44.2
125	21.8	16.2	24.2

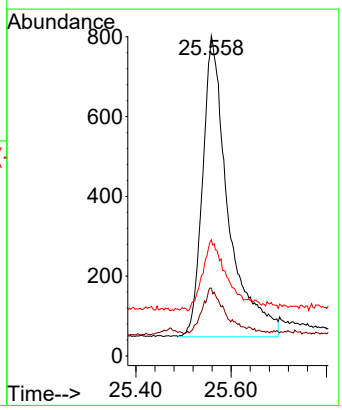


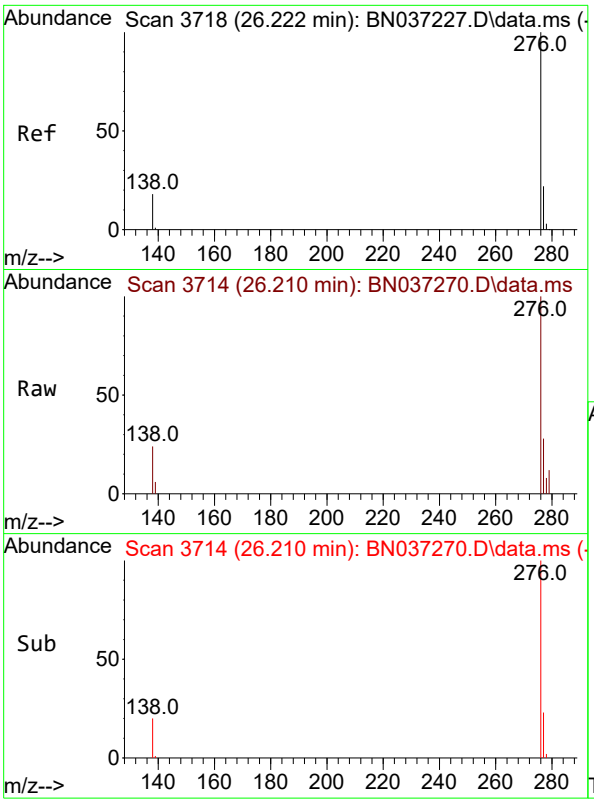


#40
Dibenzo(a,h)anthracene
Concen: 0.398 ng
RT: 25.558 min Scan# 3491
Delta R.T. -0.015 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Tgt Ion:278 Resp: 2809

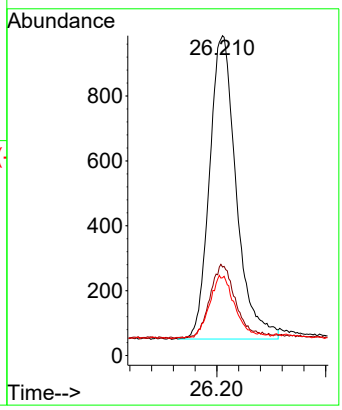
Ion	Ratio	Lower	Upper
278	100		
139	21.2	17.8	26.6
279	36.3	31.3	46.9





#41
Benzo(g,h,i)perylene
Concen: 0.370 ng
RT: 26.210 min Scan# 3
Delta R.T. -0.012 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Instrument :
BNA_N
ClientSampleId :
PB168458BS

Tgt Ion:276 Resp: 3183

Ion	Ratio	Lower	Upper
276	100		
277	27.7	22.0	33.0
138	24.3	18.4	27.6