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

DATA PACKAGE

SEMI-VOLATILE ORGANICS

PROJECT NAME : NWIRP BETHPAGE - RW5B CTO WE13 112G08005

TETRA TECH NUS, INC.

661 Andersen Drive

Suite 200

Pittsburgh, PA - 15220-2745

Phone No: 412-921-7090

ORDER ID : Q1621

ATTENTION : Ernie Wu

Laboratory Certification ID # 20012

Table Of Contents for Q1621

1) SEMI-VOLATILE DATA 2

2) Signature Page 4

3) Case Narrative 5

4) Qualifier Page 7

5) Conformance/Non Conformance 8

6) QA Checklist 10

7) Chronicle 11

8) Hit Summary 12

9) QC Data Summary For SVOC-SIMGroup1 13

- 9.1) Deuterated Monitoring Compound Summary 14
- 9.2) LCS/LCSD Summary 15
- 9.3) Method Blank Summary 17
- 9.4) GS/MS Tune Summary 18
- 9.5) Internal Standard Area and RT Summary 24

10) Sample Data 34

- 10.1) RW5-SP100-20250320 35
- 10.2) RW5-SP100-20250320DL 46
- 10.3) RW5-SP201-20250320 57
- 10.4) RW5-SP303-20250320 68

11) Calibration Data Summary 79

- 11.1) Initial Calibration Data 3
  - 11.1.1) BN031025 80
- 11.2) Continued Calibration Data 267
  - 11.2.1) BN036729.D 267
  - 11.2.2) BN036736.D 293
  - 11.2.3) BN036738.D 319
  - 11.2.4) BN036755.D 345
  - 11.2.5) BN036757.D 371
  - 11.2.6) BN036771.D 397
  - 11.2.7) BN036791.D 423
  - 11.2.8) BN036807.D 449
  - 11.2.9) BN036809.D 475
  - 11.2.10) BN036815.D 501

12) QC Sample Data 527

- 12.1) Tune Raw Data 528

12.2) Method Blank Data 552
12.3) LCS Data 562
12.4) LCSD Data 585
13) Manual Integration 608
14) Analytical Runlogs 612
15) Extraction Logs 626
15.1) PB167269.pdf 626
15.2) PB167269IC.pdf 628
16) Standard Prep Logs 629
17) Shipping Document 705
17.1) Chain Of Custody 706
17.2) Lab Certificate 707
18) Not Reviewed Data 708

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Cover Page

Order ID : Q1621

Project ID : NWIRP Bethpage - RW5B CTO WE13 112G08005

Client : Tetra Tech NUS, Inc.

Lab Sample Number	Client Sample Number
Q1621-01	RW5-SP100-20250320
Q1621-02	RW5-SP201-20250320
Q1621-03	RW5-SP303-20250320

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: 4/2/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

Tetra Tech NUS, Inc.
Project Name: NWIRP Bethpage - RW5B CTO WE13 112G08005
Project # N/A
Chemtech Project # Q1621
Test Name: SVOC-SIMGroup1

A. Number of Samples and Date of Receipt:
3 Water samples were received on 03/21/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: SVOC-SIMGroup1. 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 PB167269BS [2,4,6-Tribromophenol - 124%, 2-Fluorobiphenyl - 115%, 2-Fluorophenol - 131%], PB167269BSD [2,4,6-Tribromophenol - 128%, 2-Fluorobiphenyl - 116% and 2-Fluorophenol - 138%]. The above failure surrogates not associated with the Client parameters list, therefore no corrective action was taken.

The Internal Standards Areas met the acceptable requirements except for RW5-SP100-20250320, RW5-SP201-20250320 and RW5-SP303-20250320. The above failure of Internal Standards not associated with the client parameters list, therefore no corrective action was taken.

The Retention Times were acceptable for all samples.
The RPD met criteria.
The Blank Spike met requirements for all samples.
The Blank Spike Duplicate 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 File ID BN036757.D met the requirements except for Terphenyl-d14, The above failure compound not associated with the client parameters list, therefore no corrective action was taken.

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The Tuning criteria met requirements.

Sample RW5-SP100-20250320 was diluted due to high concentration.

E. Additional Comments:
As per special requirement for this project form-1 are reported in mg/kg.
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_____

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

DATA REPORTING QUALIFIERS- ORGANIC

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

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

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

CHEMTECH PROJECT NUMBER: Q1621 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 File ID BN036757.D met the requirements except for Terphenyl-d14, The above failure compound not associated with the client parameters list, therefore no corrective action was taken.

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 PB167269BS [2,4,6-Tribromophenol - 124%, 2-Fluorobiphenyl - 115%, 2-Fluorophenol - 131%], PB167269BSD [2,4,6-Tribromophenol - 128%, 2-Fluorobiphenyl - 116% and 2-Fluorophenol - 138%]. The above failure surrogates not associated with the client parameters list, therefore no corrective 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 Blank Spike met requirements for all samples . The Blank Spike Duplicate met requirements for all samples .			
9.	Internal Standard Area/Retention Time Shift Meet Criteria		✓	
	Comments: The Internal Standards Areas met the acceptable requirements except for RW5-SP100-20250320, RW5-SP201-20250320 and RW5-SP303-20250320. The above failure of Internal Standards not associated with the client parameters list, therefore no corrective action was taken.			
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:

Sample RW5-SP100-20250320 was diluted due to high concentration.

As per special requirement for this project form-1 are reported in mg/kg.

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 #: Q1621

	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: Mohammad Ahmed **Date:** 04/02/2025

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LAB CHRONICLE

OrderID:	Q1621	**OrderDate:**	3/21/2025 10:33:00 AM
Client:	Tetra Tech NUS, Inc.	**Project:**	NWIRP Bethpage - RW5B CTO WE13 112G08005
Contact:	Ernie Wu	**Location:**	I31

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1621-01	**RW5-SP100-20250320**	**Water**			**03/20/25**			**03/21/25**
			SVOC-SIMGroup1	8270-Modified		03/24/25	03/27/25	
Q1621-01DL	**RW5-SP100-20250320DL**	**Water**			**03/20/25**			**03/21/25**
			SVOC-SIMGroup1	8270-Modified		03/24/25	03/27/25	
Q1621-02	**RW5-SP201-20250320**	**Water**			**03/20/25**			**03/21/25**
			SVOC-SIMGroup1	8270-Modified		03/24/25	03/27/25	
Q1621-03	**RW5-SP303-20250320**	**Water**			**03/20/25**			**03/21/25**
			SVOC-SIMGroup1	8270-Modified		03/24/25	03/27/25	

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Hit Summary Sheet
SW-846

SDG No.: Q1621

Client: Tetra Tech NUS, Inc.

Sample ID	Client ID		Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : RW5-SP100-20250320									
Q1621-01	RW5-SP100-20250320	WATER	1,4-Dioxane	7.200	E	0.07	0.2	0.2	ug/L
			Total Svoc :	**7.20**					
			Total Concentration:	**7.20**					
Client ID : RW5-SP100-20250320DL									
Q1621-01DL	RW5-SP100-20250320DI	WATER	1,4-Dioxane	7.900	D	0.35	1	1	ug/L
			Total Svoc :	**7.90**					
			Total Concentration:	**7.90**					

QC SUMMARY

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Surrogate Summary

SW-846

SDG No.: Q1621

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB167269BL	PB167269BL	2-Methylnaphthalene-d10	0.4	0.33	83		30	150
		Fluoranthene-d10	0.4	0.41	102		30	150
		Nitrobenzene-d5	0.4	0.31	78		55	111
		2-Fluorobiphenyl	0.4	0.29	73		53	106
		Terphenyl-d14	0.4	0.39	98		58	132
PB167269BS	PB167269BS	2-Methylnaphthalene-d10	0.4	0.40	101		30	150
		Fluoranthene-d10	0.4	0.45	112		30	150
		Nitrobenzene-d5	0.4	0.42	105		55	111
		2-Fluorobiphenyl	0.4	0.46	115	*	53	106
		Terphenyl-d14	0.4	0.49	122		58	132
PB167269BSD	PB167269BSD	2-Methylnaphthalene-d10	0.4	0.43	106		30	150
		Fluoranthene-d10	0.4	0.43	108		30	150
		Nitrobenzene-d5	0.4	0.44	109		55	111
		2-Fluorobiphenyl	0.4	0.46	116	*	53	106
		Terphenyl-d14	0.4	0.52	131		58	132
Q1621-01	RW5-SP100-20250320	2-Methylnaphthalene-d10	0.4	0.30	76		30	150
		Fluoranthene-d10	0.4	0.44	110		30	150
		Nitrobenzene-d5	0.4	0.30	75		55	111
		2-Fluorobiphenyl	0.4	0.33	82		53	106
		Terphenyl-d14	0.4	0.49	123		58	132
Q1621-01DL	RW5-SP100-20250320DL	2-Methylnaphthalene-d10	0.4	0.28	70		30	150
		Fluoranthene-d10	0.4	0.45	111		30	150
		Nitrobenzene-d5	0.4	0.30	75		55	111
		2-Fluorobiphenyl	0.4	0.28	69		53	106
		Terphenyl-d14	0.4	0.48	120		58	132
Q1621-02	RW5-SP201-20250320	2-Methylnaphthalene-d10	0.4	0.32	81		30	150
		Fluoranthene-d10	0.4	0.44	110		30	150
		Nitrobenzene-d5	0.4	0.31	78		55	111
		2-Fluorobiphenyl	0.4	0.34	86		53	106
		Terphenyl-d14	0.4	0.47	118		58	132
Q1621-03	RW5-SP303-20250320	2-Methylnaphthalene-d10	0.4	0.31	79		30	150
		Fluoranthene-d10	0.4	0.46	116		30	150
		Nitrobenzene-d5	0.4	0.29	72		55	111
		2-Fluorobiphenyl	0.4	0.34	84		53	106
		Terphenyl-d14	0.4	0.46	115		58	132

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1621

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified **DataFile:** BN036806.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB167269BS	1,4-Dioxane	0.4	0.38	ug/L	95				70	130	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1621

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified **DataFile:** BN036814.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB167269BSD	1,4-Dioxane	0.4	0.32	ug/L	80	17			70	130	20

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB167269BL

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1621 SAS No.: Q1621 SDG NO.: Q1621

Lab File ID: BN036758.D Lab Sample ID: PB167269BL

Instrument ID: BNA_N Date Extracted: 03/24/2025

Matrix: (soil/water) Water Date Analyzed: 03/28/2025

Level: (low/med) LOW Time Analyzed: 04:22

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
RW5-SP100-20250320	Q1621-01	BN036733.D	03/27/2025
RW5-SP201-20250320	Q1621-02	BN036740.D	03/27/2025
RW5-SP303-20250320	Q1621-03	BN036741.D	03/27/2025
PB167269BS	PB167269BS	BN036806.D	03/29/2025
PB167269BSD	PB167269BSD	BN036814.D	03/31/2025

COMMENTS:

Alliance TECHNICAL GROUP
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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM SAS No.: Q1621 SDG NO.: Q1621

Lab File ID: BN036556.D DFTPP Injection Date: 03/10/2025

Instrument ID: BNA_N DFTPP Injection Time: 11:03

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	58.6
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	52.3
70	Less than 2.0% of mass 69	0.3 (0.7) 1
127	10.0 - 80.0% of mass 198	50.7
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 60.0% of mass 198	24.8
365	Greater than 1% of mass 198	3.8
441	Present, but less than mass 443	9.3
442	Greater than 50% of mass 198	100.0
443	15.0 - 24.0% of mass 442	10.9 (19.6) 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	BN036557.D	03/10/2025	11:42
SSTDICC0.2	SSTDICC0.2	BN036558.D	03/10/2025	12:18
SSTDICCC0.4	SSTDICCC0.4	BN036559.D	03/10/2025	12:54
SSTDICC0.8	SSTDICC0.8	BN036560.D	03/10/2025	13:31
SSTDICC1.6	SSTDICC1.6	BN036561.D	03/10/2025	14:07
SSTDICC3.2	SSTDICC3.2	BN036562.D	03/10/2025	14:43
SSTDICC5.0	SSTDICC5.0	BN036563.D	03/10/2025	15:19

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM SAS No.: Q1621 SDG NO.: Q1621

Lab File ID: BN036728.D DFTPP Injection Date: 03/27/2025

Instrument ID: BNA_N DFTPP Injection Time: 09:10

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	67.4
68	Less than 2.0% of mass 69	0.8 (1.4) 1
69	Mass 69 relative abundance	56.4
70	Less than 2.0% of mass 69	0.8 (1.4) 1
127	10.0 - 80.0% of mass 198	52.6
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 60.0% of mass 198	24.3
365	Greater than 1% of mass 198	3.8
441	Present, but less than mass 443	7.8
442	Greater than 50% of mass 198	100.0
443	15.0 - 24.0% of mass 442	9.3 (19.5) 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	BN036729.D	03/27/2025	09:49
RW5-SP100-20250320	Q1621-01	BN036733.D	03/27/2025	12:14
SSTDCCC0.4EC	SSTDCCC0.4	BN036736.D	03/27/2025	14:02

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM SAS No.: Q1621 SDG NO.: Q1621

Lab File ID: BN036737.D DFTPP Injection Date: 03/27/2025

Instrument ID: BNA_N DFTPP Injection Time: 14:38

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	66.6
68	Less than 2.0% of mass 69	0.8 (1.4) 1
69	Mass 69 relative abundance	56.1
70	Less than 2.0% of mass 69	0.3 (0.6) 1
127	10.0 - 80.0% of mass 198	53
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	24
365	Greater than 1% of mass 198	4
441	Present, but less than mass 443	8.4
442	Greater than 50% of mass 198	100.0
443	15.0 - 24.0% of mass 442	9.8 (19.4) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN036738.D	03/27/2025	15:38
RW5-SP201-20250320	Q1621-02	BN036740.D	03/27/2025	16:50
RW5-SP303-20250320	Q1621-03	BN036741.D	03/27/2025	17:26
RW5-SP100-20250320DL	Q1621-01DL	BN036742.D	03/27/2025	18:02
SSTDCCC0.4EC	SSTDCCC0.4	BN036755.D	03/28/2025	01:52

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM SAS No.: Q1621 SDG NO.: Q1621

Lab File ID: BN036756.D DFTPP Injection Date: 03/28/2025

Instrument ID: BNA_N DFTPP Injection Time: 03:07

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	67
68	Less than 2.0% of mass 69	0.9 (1.5) 1
69	Mass 69 relative abundance	57.5
70	Less than 2.0% of mass 69	0.3 (0.5) 1
127	10.0 - 80.0% of mass 198	53.9
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	7.1
275	10.0 - 60.0% of mass 198	24.9
365	Greater than 1% of mass 198	4.1
441	Present, but less than mass 443	8.9
442	Greater than 50% of mass 198	100.0
443	15.0 - 24.0% of mass 442	10.3 (19.2) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN036757.D	03/28/2025	03:46
PB167269BL	PB167269BL	BN036758.D	03/28/2025	04:22
SSTDCCC0.4EC	SSTDCCC0.4	BN036771.D	03/28/2025	13:58

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM SAS No.: Q1621 SDG NO.: Q1621

Lab File ID: BN036790.D DFTPP Injection Date: 03/29/2025

Instrument ID: BNA_N DFTPP Injection Time: 01:26

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	71.7
68	Less than 2.0% of mass 69	1.1 (1.9) 1
69	Mass 69 relative abundance	58.5
70	Less than 2.0% of mass 69	0.3 (0.6) 1
127	10.0 - 80.0% of mass 198	52.7
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	22.7
365	Greater than 1% of mass 198	3.9
441	Present, but less than mass 443	8.2
442	Greater than 50% of mass 198	100.0
443	15.0 - 24.0% of mass 442	10.1 (20.2) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN036791.D	03/29/2025	02:44
PB167269BS	PB167269BS	BN036806.D	03/29/2025	11:45
SSTDCCC0.4EC	SSTDCCC0.4	BN036807.D	03/29/2025	12:21

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM SAS No.: Q1621 SDG NO.: Q1621

Lab File ID: BN036808.D DFTPP Injection Date: 03/31/2025

Instrument ID: BNA_N DFTPP Injection Time: 10:00

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	70.2
68	Less than 2.0% of mass 69	1 (1.8) 1
69	Mass 69 relative abundance	58.4
70	Less than 2.0% of mass 69	0.4 (0.6) 1
127	10.0 - 80.0% of mass 198	54.1
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	7.2
275	10.0 - 60.0% of mass 198	23.4
365	Greater than 1% of mass 198	4
441	Present, but less than mass 443	8.3
442	Greater than 50% of mass 198	100.0
443	15.0 - 24.0% of mass 442	10 (21.3) 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	BN036809.D	03/31/2025	10:39
PB167269BSD	PB167269BSD	BN036814.D	03/31/2025	14:16
SSTDCCC0.4EC	SSTDCCC0.4	BN036815.D	03/31/2025	15:08

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1621 SAS No.: Q1621 SDG NO.: Q1621

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 03/27/2025

Lab File ID: BN036729.D Time Analyzed: 09:49

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	2892	7.703	7150		10.49	4255		14.35
	UPPER LIMIT	5784	8.203	14300		10.987	8510		14.845
	LOWER LIMIT	1446	7.203	3575		9.987	2127.5		13.845
	EPA SAMPLE NO.								
01	RW5-SP100-20250320	1492	7.70	3351	*	10.49	2085	*	14.35

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.: Q1621 SAS No.: Q1621 SDG NO.: Q1621

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 03/27/2025

Lab File ID: BN036729.D Time Analyzed: 09:49

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	8860	17.086	7759		21.277	6723	23.522
	UPPER LIMIT	17720	17.586	15518		21.777	13446	24.022
	LOWER LIMIT	4430	16.586	3879.5		20.777	3361.5	23.022
	EPA SAMPLE NO.							
01	RW5-SP100-20250320	4625	17.09	3861	*	21.28	3367	23.53

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

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

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

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1621 SAS No.: Q1621 SDG NO.: Q1621

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 03/27/2025

Lab File ID: BN036738.D Time Analyzed: 15:38

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	1523	7.703	3803	10.49	2348	14.35
	UPPER LIMIT	3046	8.203	7606	10.987	4696	14.845
	LOWER LIMIT	761.5	7.203	1901.5	9.987	1174	13.845
	EPA SAMPLE NO.						
01	RW5-SP201-20250320	1438	7.70	3285	10.49	2042	14.35
02	RW5-SP100-20250320DL	1243	7.70	2699	10.50	1836	14.35
03	RW5-SP303-20250320	1324	7.70	3208	10.49	2058	14.35

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.: Q1621 SAS No.: Q1621 SDG NO.: Q1621

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 03/27/2025

Lab File ID: BN036738.D Time Analyzed: 15:38

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	4989	17.086	4385	21.277	4045	23.525
	UPPER LIMIT	9978	17.586	8770	21.777	8090	24.025
	LOWER LIMIT	2494.5	16.586	2192.5	20.777	2022.5	23.025
	EPA SAMPLE NO.						
01	RW5-SP201-20250320	4646	17.09	3789	21.28	3230	23.53
02	RW5-SP100-20250320DL	4032	17.10	3349	21.29	2971	23.53
03	RW5-SP303-20250320	4583	17.09	3932	21.28	3540	23.53

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

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

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

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1621 SAS No.: Q1621 SDG NO.: Q1621

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 03/28/2025

Lab File ID: BN036757.D Time Analyzed: 03:46

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	1974	7.703	4607	10.49	2750	14.33
	UPPER LIMIT	3948	8.203	9214	10.988	5500	14.834
	LOWER LIMIT	987	7.203	2303.5	9.988	1375	13.834
	EPA SAMPLE NO.						
01	PB167269BL	2126	7.70	4744	10.50	2602	14.35

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.: Q1621 SAS No.: Q1621 SDG NO.: Q1621

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 03/28/2025

Lab File ID: BN036757.D Time Analyzed: 03:46

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	5937	17.087	5680	21.277	5140		23.519
	UPPER LIMIT	11874	17.587	11360	21.777	10280		24.019
	LOWER LIMIT	2968.5	16.587	2840	20.777	2570		23.019
	EPA SAMPLE NO.							
01	PB167269BL	5169	17.10	3967	21.28	2206	*	23.53

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

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

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

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1621 SAS No.: Q1621 SDG NO.: Q1621

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 03/29/2025

Lab File ID: BN036791.D Time Analyzed: 02:44

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	1826	7.696	4490	10.48	2701	14.33
	UPPER LIMIT	3652	8.196	8980	10.977	5402	14.834
	LOWER LIMIT	913	7.196	2245	9.977	1350.5	13.834
	EPA SAMPLE NO.						
01	PB167269BS	1846	7.70	4665	10.48	2569	14.33

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.: Q1621 SAS No.: Q1621 SDG NO.: Q1621

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 03/29/2025

Lab File ID: BN036791.D Time Analyzed: 02:44

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	5571	17.087	4634	21.268	4032		23.516
	UPPER LIMIT	11142	17.587	9268	21.768	8064		24.016
	LOWER LIMIT	2785.5	16.587	2317	20.768	2016		23.016
	EPA SAMPLE NO.							
01	PB167269BS	5013	17.09	3219	21.28	1389	*	23.52

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.: Q1621 SAS No.: Q1621 SDG NO.: Q1621

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 03/31/2025

Lab File ID: BN036809.D Time Analyzed: 10:39

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	1888	7.695	4656	10.48	2798	14.33
	UPPER LIMIT	3776	8.195	9312	10.977	5596	14.834
	LOWER LIMIT	944	7.195	2328	9.977	1399	13.834
	EPA SAMPLE NO.						
01	PB167269BSD	2858	7.70	7352	10.48	4021	14.33

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.: Q1621 SAS No.: Q1621 SDG NO.: Q1621

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 03/31/2025

Lab File ID: BN036809.D Time Analyzed: 10:39

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	5809	17.086	4586	21.277	3945		23.522
	UPPER LIMIT	11618	17.586	9172	21.777	7890		24.022
	LOWER LIMIT	2904.5	16.586	2293	20.777	1972.5		23.022
	EPA SAMPLE NO.							
01	PB167269BSD	7787	17.09	4781	21.28	1670	*	23.52

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

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	03/20/25
Project:	NWIRP Bethpage - RW5B CTO WE13 112G08005	Date Received:	03/21/25
Client Sample ID:	RW5-SP100-20250320	SDG No.:	Q1621
Lab Sample ID:	Q1621-01	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
BN036733.D	1	03/24/25 08:15	03/27/25 12:14	PB167269

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	7.20	E	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.30		30 - 150		76%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.44		30 - 150		110%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.30		55 - 111		75%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.33		53 - 106		82%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.49		58 - 132		123%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1490	7.703				
1146-65-2	Naphthalene-d8	3350	10.487				
15067-26-2	Acenaphthene-d10	2090	14.345				
1517-22-2	Phenanthrene-d10	4630	17.086				
1719-03-5	Chrysene-d12	3860	21.277				
1520-96-3	Perylene-d12	3370	23.528				

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\BN032725\
Data File : BN036733.D
Acq On : 27 Mar 2025 12:14
Operator : RC/JU
Sample : Q1621-01
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20250320

Quant Time: Mar 27 12:54:41 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

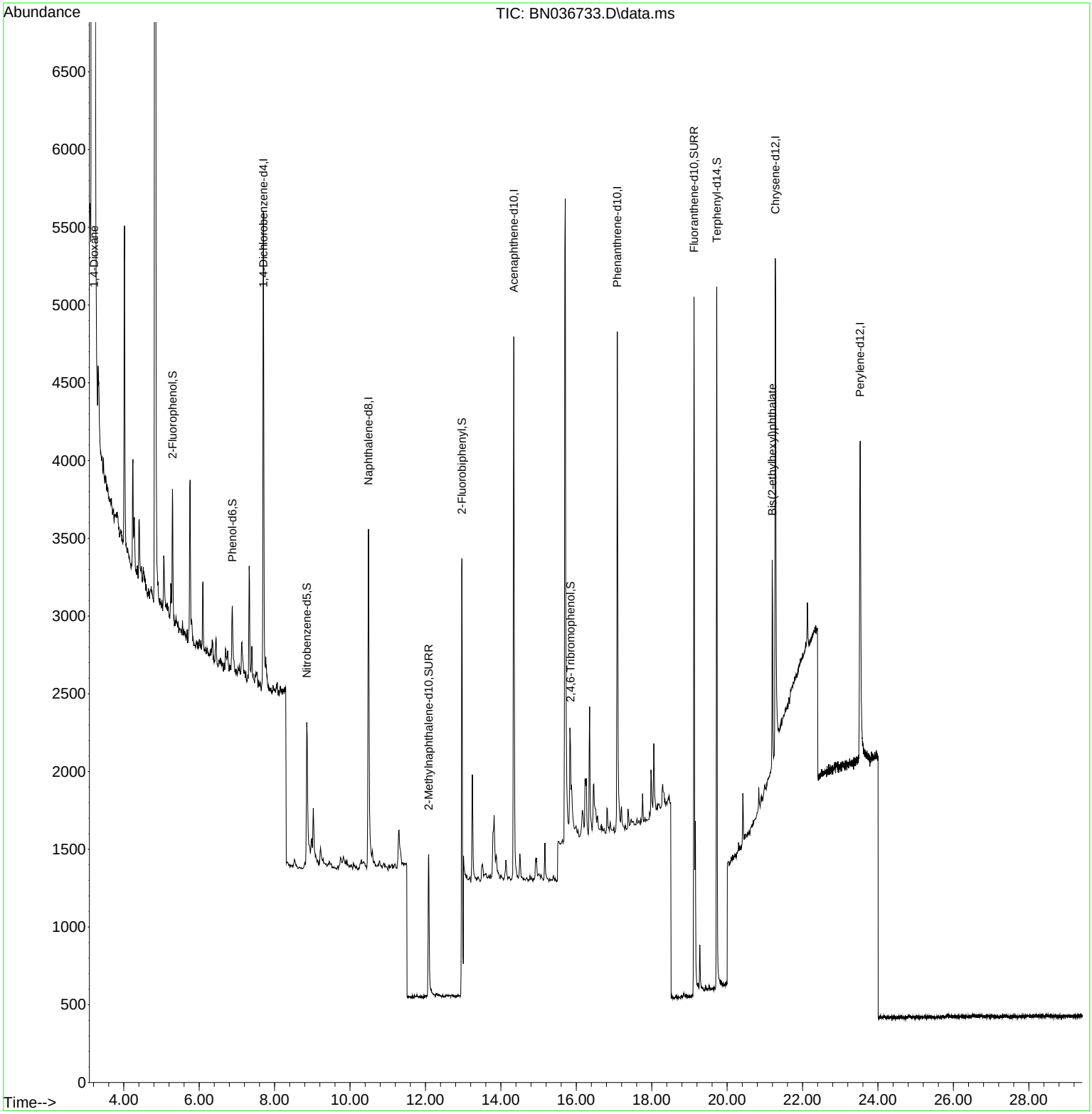
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.703	152	1492	0.400	ng	-0.02
7) Naphthalene-d8	10.487	136	3351	0.400	ng	-0.02
13) Acenaphthene-d10	14.345	164	2085	0.400	ng	-0.02
19) Phenanthrene-d10	17.086	188	4625	0.400	ng	#-0.02
29) Chrysene-d12	21.277	240	3861	0.400	ng	-0.02
35) Perylene-d12	23.528	264	3367	0.400	ng	-0.03
System Monitoring Compounds						
4) 2-Fluorophenol	5.298	112	612	0.176	ng	-0.01
5) Phenol-d6	6.879	99	426	0.099	ng	-0.02
8) Nitrobenzene-d5	8.854	82	1085	0.298	ng	-0.02
11) 2-Methylnaphthalene-d10	12.086	152	1517	0.304	ng	-0.03
14) 2,4,6-Tribromophenol	15.845	330	443	0.468	ng	-0.01
15) 2-Fluorobiphenyl	12.968	172	3963	0.327	ng	-0.02
27) Fluoranthene-d10	19.122	212	5217	0.440	ng	-0.02
31) Terphenyl-d14	19.726	244	4563	0.493	ng	-0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	3.218	88	11914	7.198	ng	98
34) Bis(2-ethylhexyl)phtha...	21.196	149	1392	0.146	ng	96

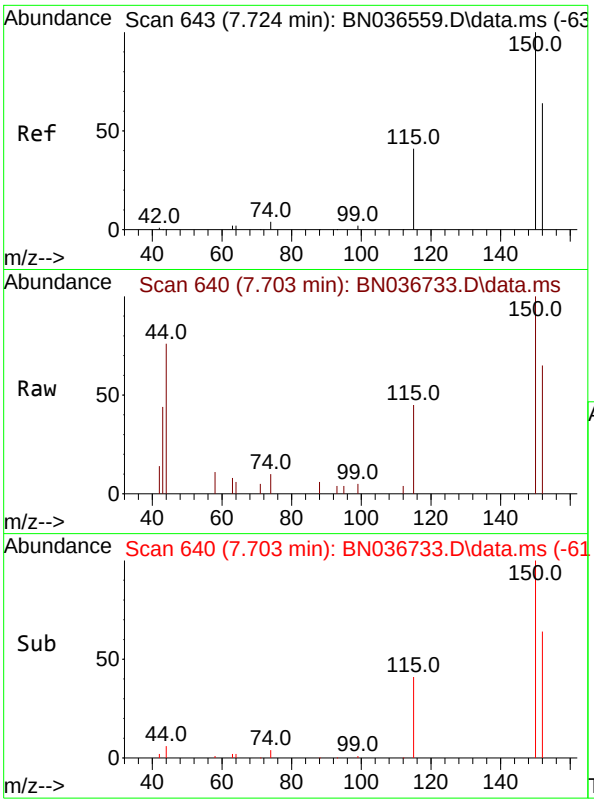
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036733.D
Acq On : 27 Mar 2025 12:14
Operator : RC/JU
Sample : Q1621-01
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20250320

Quant Time: Mar 27 12:54:41 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



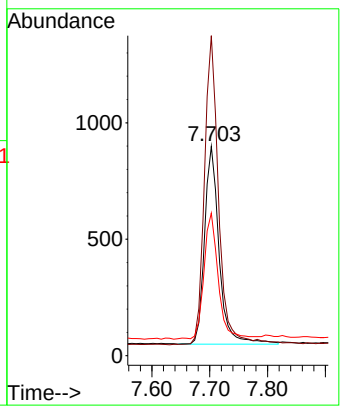


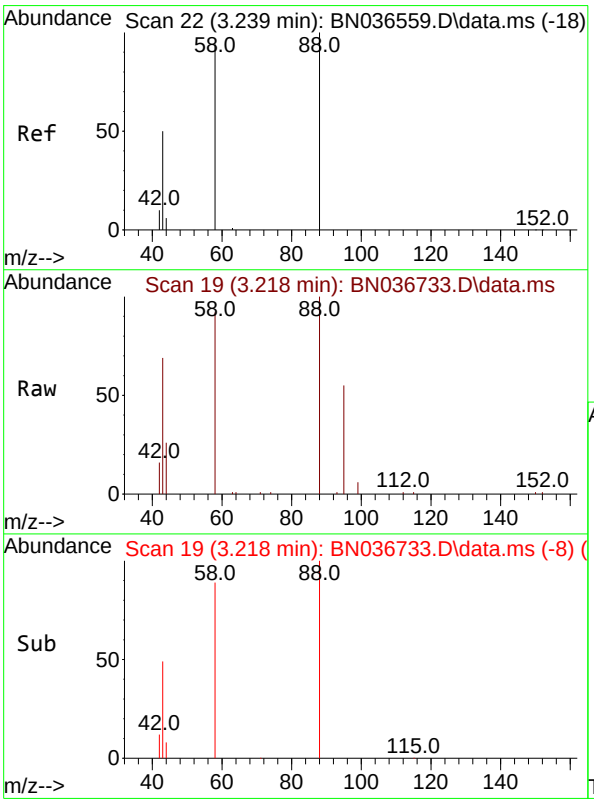
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.703 min Scan# 64
Delta R.T. -0.021 min
Lab File: BN036733.D
Acq: 27 Mar 2025 12:14

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20250320

Tgt Ion:152 Resp: 1492

Ion	Ratio	Lower	Upper
152	100		
150	152.8	123.7	185.5
115	68.1	54.3	81.5

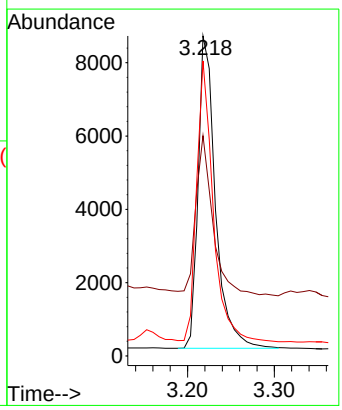


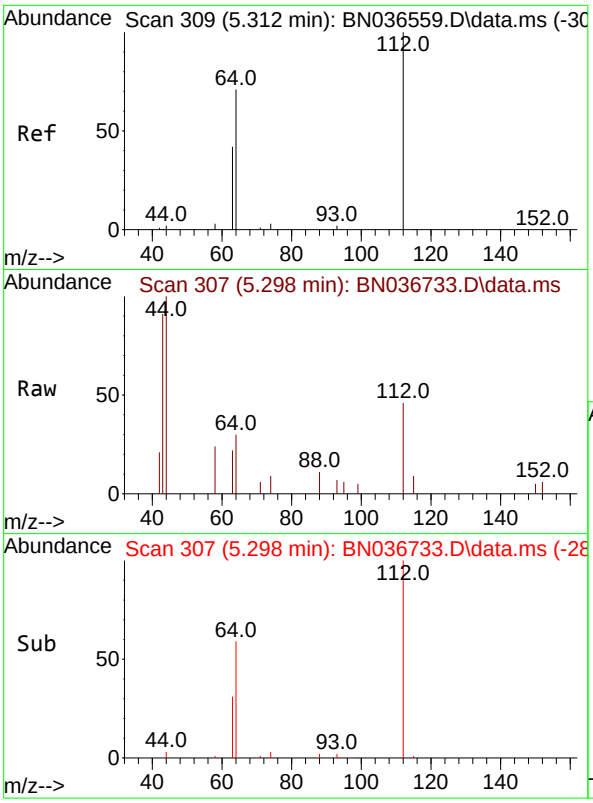


#2
1,4-Dioxane
Concen: 7.198 ng
RT: 3.218 min Scan# 19
Delta R.T. -0.021 min
Lab File: BN036733.D
Acq: 27 Mar 2025 12:14

Tgt Ion: 88 Resp: 11914

Ion	Ratio	Lower	Upper
88	100		
43	50.5	37.8	56.8
58	85.4	67.4	101.2



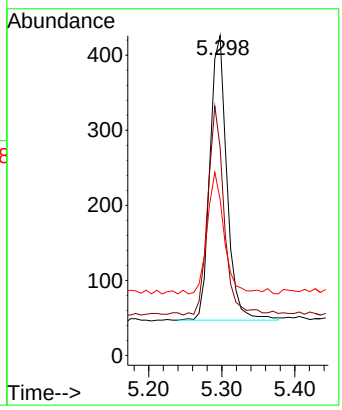


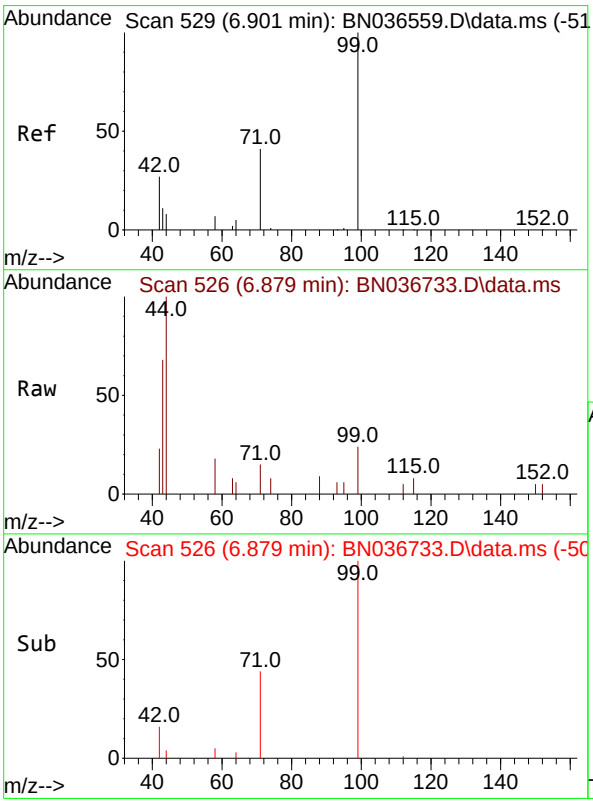
#4
2-Fluorophenol
Concen: 0.176 ng
RT: 5.298 min Scan# 3
Delta R.T. -0.014 min
Lab File: BN036733.D
Acq: 27 Mar 2025 12:14

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20250320

Tgt Ion:112 Resp: 612

Ion	Ratio	Lower	Upper
112	100		
64	70.1	53.1	79.7
63	41.8	31.8	47.8

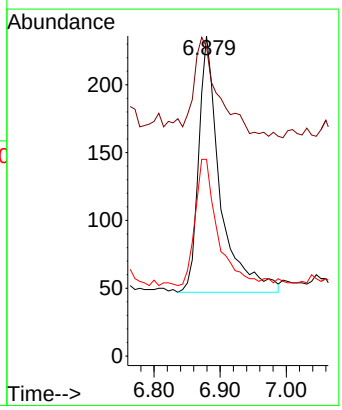


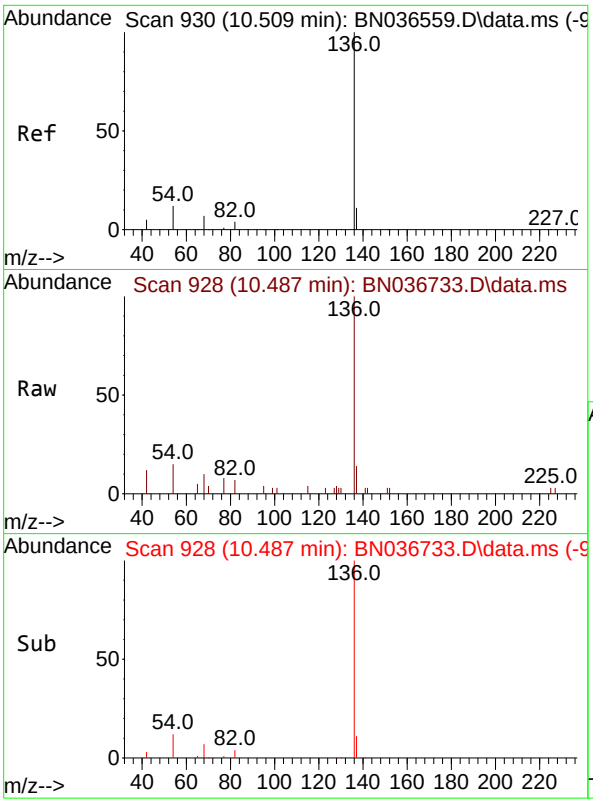


#5
Phenol-d6
Concen: 0.099 ng
RT: 6.879 min Scan# 526
Delta R.T. -0.022 min
Lab File: BN036733.D
Acq: 27 Mar 2025 12:14

Tgt Ion: 99 Resp: 426

Ion	Ratio	Lower	Upper
99	100		
42	46.2	26.5	39.7#
71	51.4	34.1	51.1#



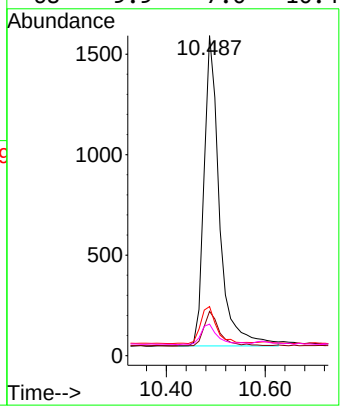


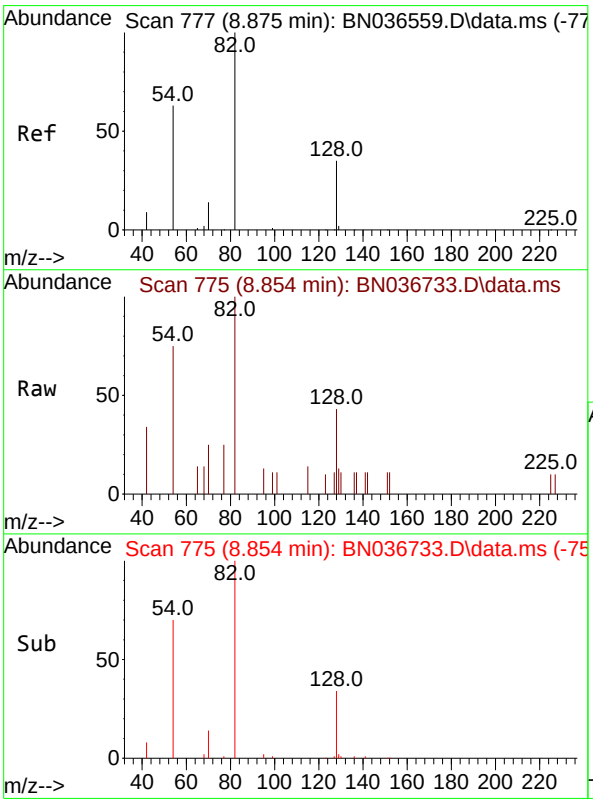
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.487 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN036733.D
Acq: 27 Mar 2025 12:14

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20250320

Tgt Ion:136 Resp: 3351

Ion	Ratio	Lower	Upper
136	100		
137	13.8	10.3	15.5
54	15.3	11.5	17.3
68	9.9	7.0	10.4

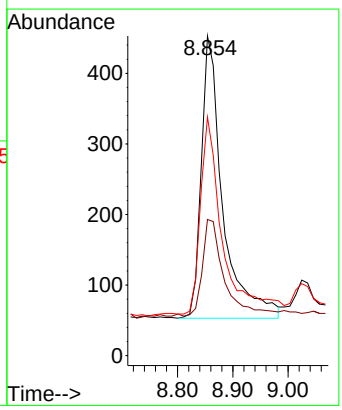


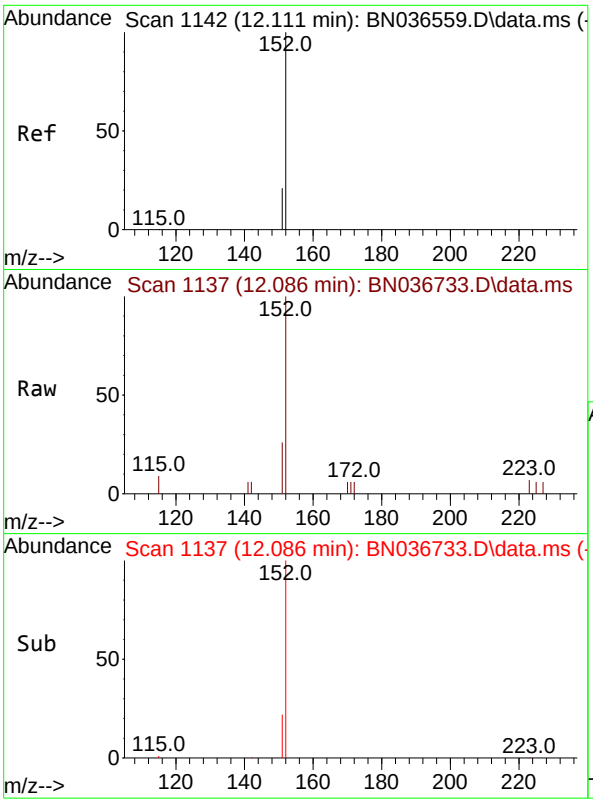


#8
Nitrobenzene-d5
Concen: 0.298 ng
RT: 8.854 min Scan# 775
Delta R.T. -0.021 min
Lab File: BN036733.D
Acq: 27 Mar 2025 12:14

Tgt Ion: 82 Resp: 1085

Ion	Ratio	Lower	Upper
82	100		
128	42.6	30.6	45.8
54	74.6	52.2	78.4



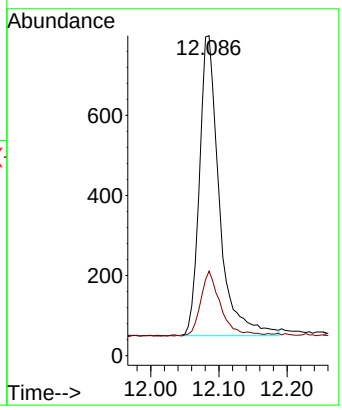


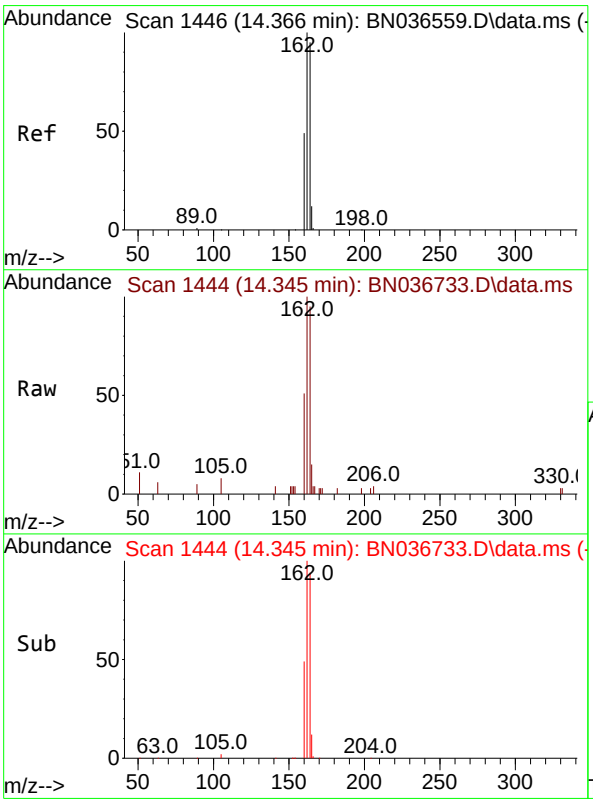
#11
2-Methylnaphthalene-d10
Concen: 0.304 ng
RT: 12.086 min Scan# 11
Delta R.T. -0.025 min
Lab File: BN036733.D
Acq: 27 Mar 2025 12:14

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20250320

Tgt Ion:152 Resp: 1517

Ion	Ratio	Lower	Upper
152	100		
151	21.8	17.0	25.6

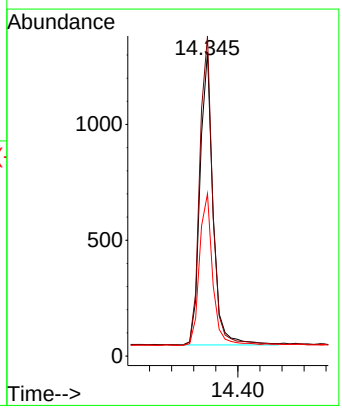


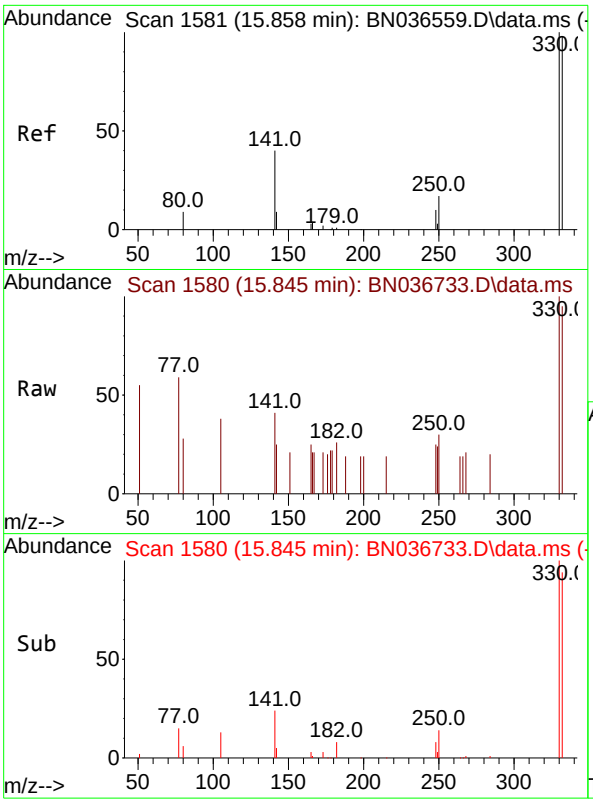


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 1444
Delta R.T. -0.021 min
Lab File: BN036733.D
Acq: 27 Mar 2025 12:14

Tgt Ion:164 Resp: 2085

Ion	Ratio	Lower	Upper
164	100		
162	105.3	84.2	126.2
160	53.3	42.2	63.2



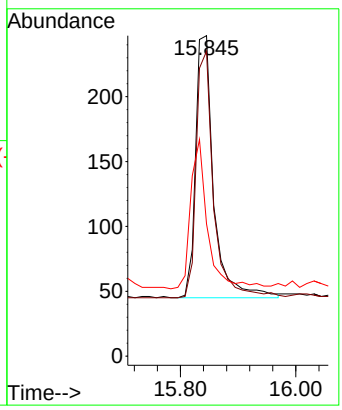


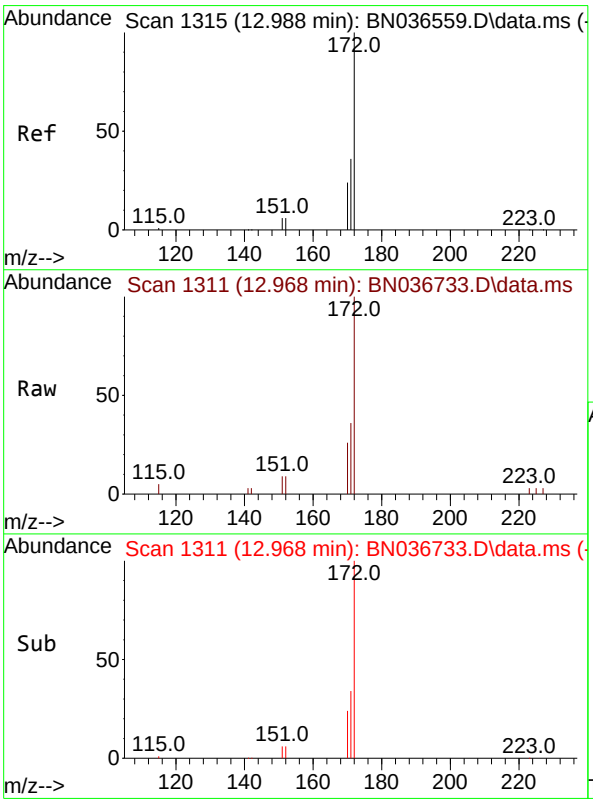
#14
2,4,6-Tribromophenol
Concen: 0.468 ng
RT: 15.845 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN036733.D
Acq: 27 Mar 2025 12:14

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20250320

Tgt Ion:330 Resp: 443

Ion	Ratio	Lower	Upper
330	100		
332	90.3	75.2	112.8
141	53.5	43.4	65.2

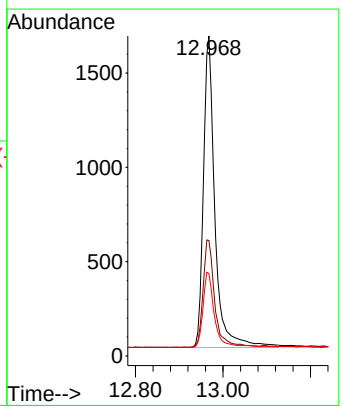


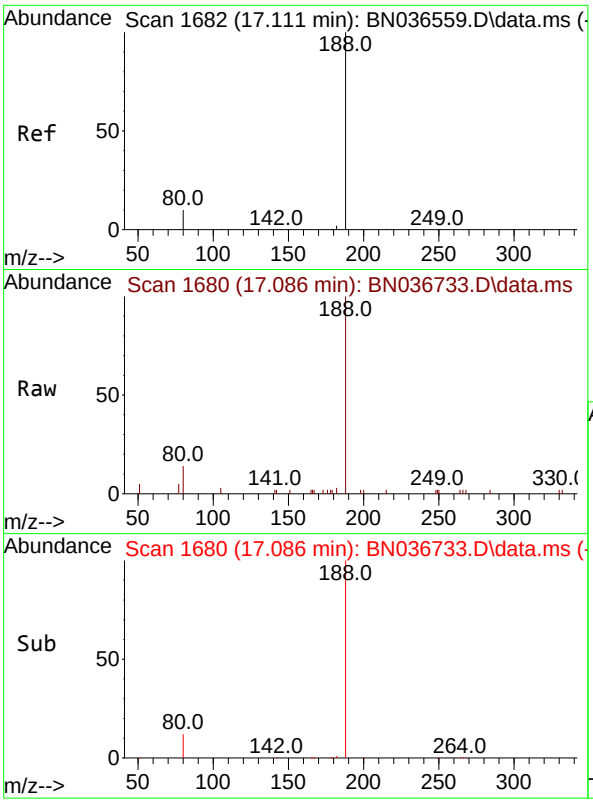


#15
2-Fluorobiphenyl
Concen: 0.327 ng
RT: 12.968 min Scan# 1311
Delta R.T. -0.020 min
Lab File: BN036733.D
Acq: 27 Mar 2025 12:14

Tgt Ion:172 Resp: 3963

Ion	Ratio	Lower	Upper
172	100		
171	36.1	29.5	44.3
170	25.8	20.2	30.4



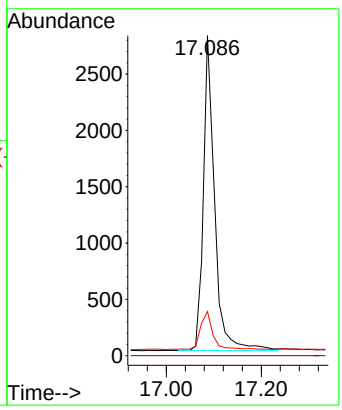


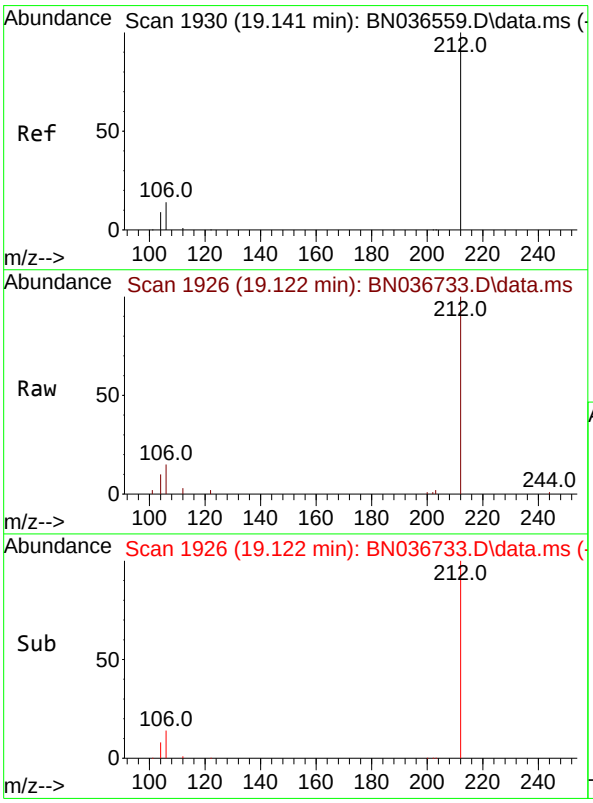
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036733.D
Acq: 27 Mar 2025 12:14

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20250320

Tgt Ion:188 Resp: 4625

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	13.8	8.8	13.2#

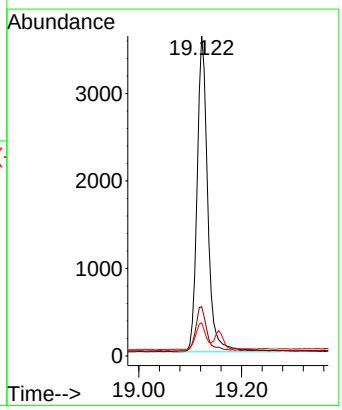


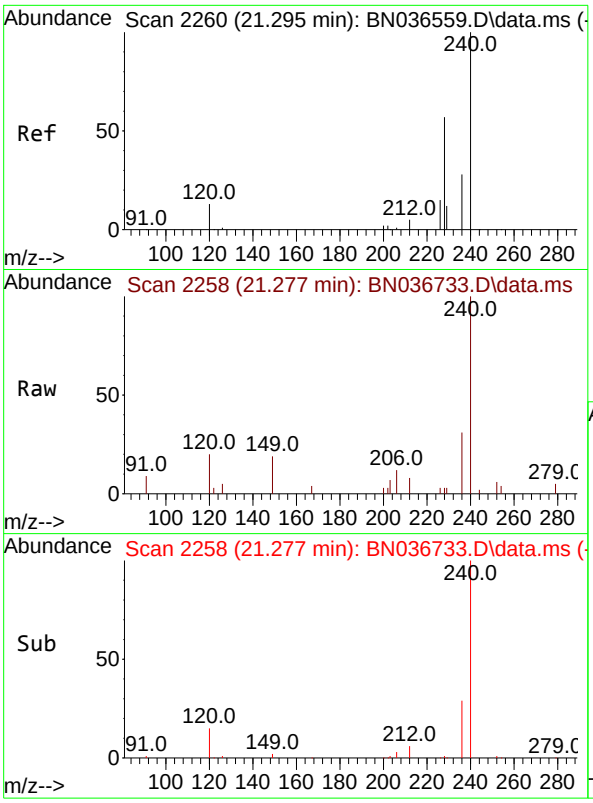


#27
Fluoranthene-d10
Concen: 0.440 ng
RT: 19.122 min Scan# 1926
Delta R.T. -0.018 min
Lab File: BN036733.D
Acq: 27 Mar 2025 12:14

Tgt Ion:212 Resp: 5217

Ion	Ratio	Lower	Upper
212	100		
106	14.7	11.8	17.6
104	8.2	7.3	10.9



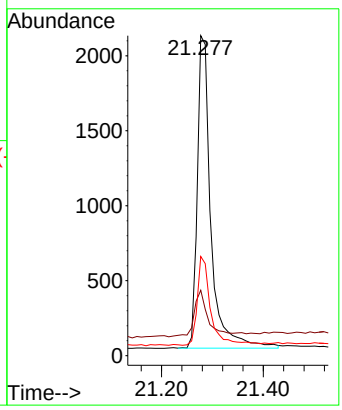


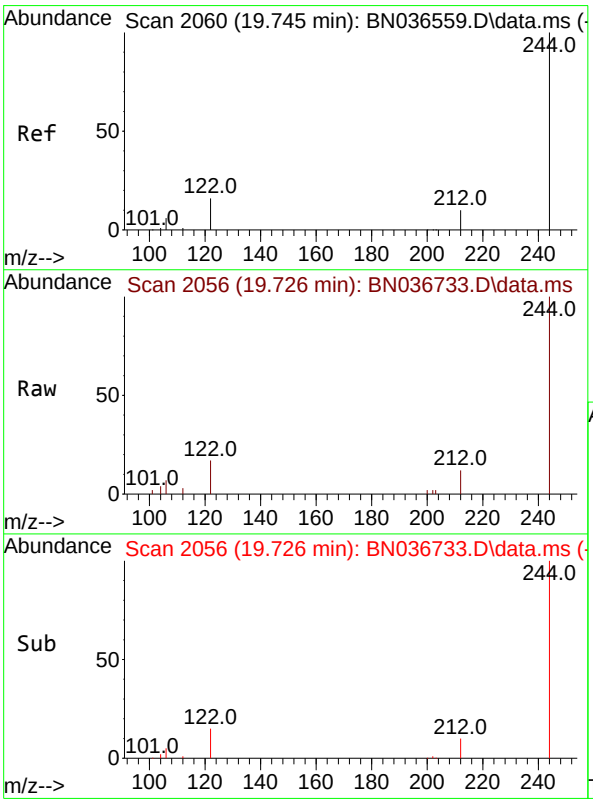
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036733.D
Acq: 27 Mar 2025 12:14

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20250320

Tgt Ion:240 Resp: 3861

Ion	Ratio	Lower	Upper
240	100		
120	20.4	14.6	22.0
236	31.0	24.1	36.1

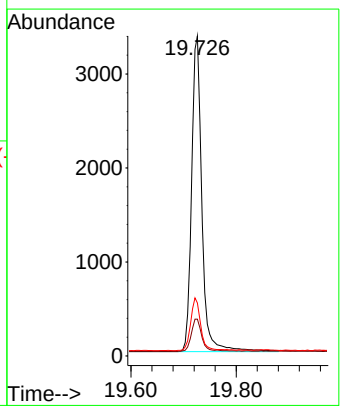


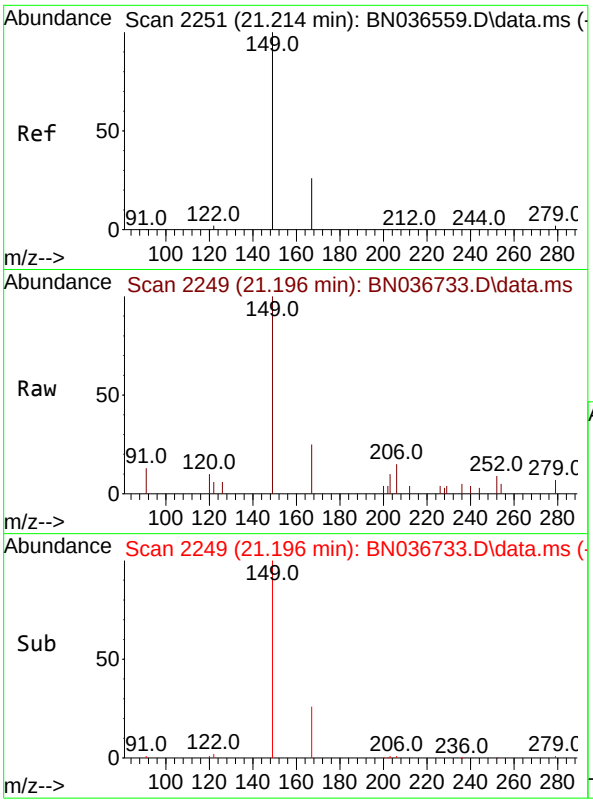


#31
Terphenyl-d14
Concen: 0.493 ng
RT: 19.726 min Scan# 2056
Delta R.T. -0.018 min
Lab File: BN036733.D
Acq: 27 Mar 2025 12:14

Tgt Ion:244 Resp: 4563

Ion	Ratio	Lower	Upper
244	100		
212	11.5	9.6	14.4
122	16.6	13.9	20.9



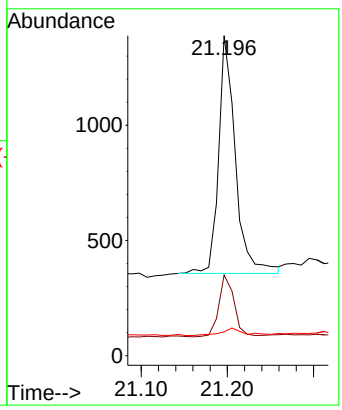


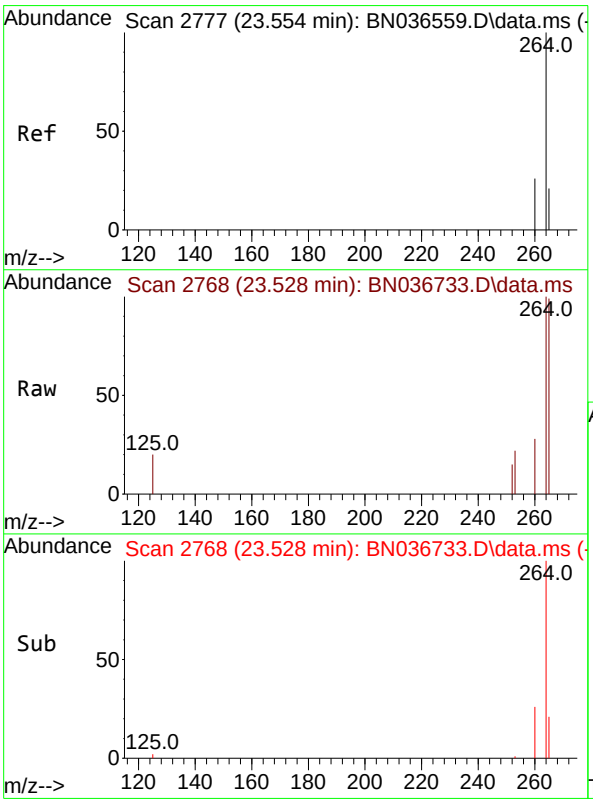
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.146 ng
RT: 21.196 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036733.D
Acq: 27 Mar 2025 12:14

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20250320

Tgt Ion:149 Resp: 1392

Ion	Ratio	Lower	Upper
149	100		
167	23.7	20.7	31.1
279	4.3	3.6	5.4

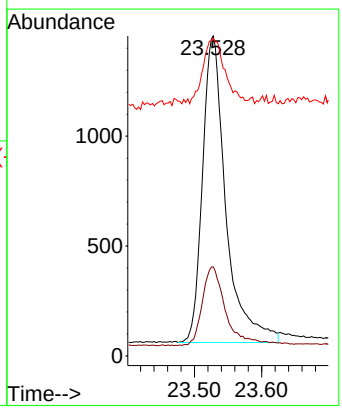




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.528 min Scan# 2768
Delta R.T. -0.026 min
Lab File: BN036733.D
Acq: 27 Mar 2025 12:14

Tgt Ion:264 Resp: 3367

Ion	Ratio	Lower	Upper
264	100		
260	27.8	22.6	33.8
265	99.3	88.1	132.1



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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	03/20/25
Project:	NWIRP Bethpage - RW5B CTO WE13 112G08005	Date Received:	03/21/25
Client Sample ID:	RW5-SP100-20250320DL	SDG No.:	Q1621
Lab Sample ID:	Q1621-01DL	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
BN036742.D	5	03/24/25 08:15	03/27/25 18:02	PB167269

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	7.90	D	0.35	1.00	1.00	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.28		30 - 150		70%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.45		30 - 150		111%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.30		55 - 111		75%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.28		53 - 106		69%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.48		58 - 132		120%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1240	7.703				
1146-65-2	Naphthalene-d8	2700	10.498				
15067-26-2	Acenaphthene-d10	1840	14.345				
1517-22-2	Phenanthrene-d10	4030	17.099				
1719-03-5	Chrysene-d12	3350	21.286				
1520-96-3	Perylene-d12	2970	23.531				

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\BN032725\
Data File : BN036742.D
Acq On : 27 Mar 2025 18:02
Operator : RC/JU
Sample : Q1621-01DL 5X
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20250320DL

Quant Time: Mar 27 18:38:35 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

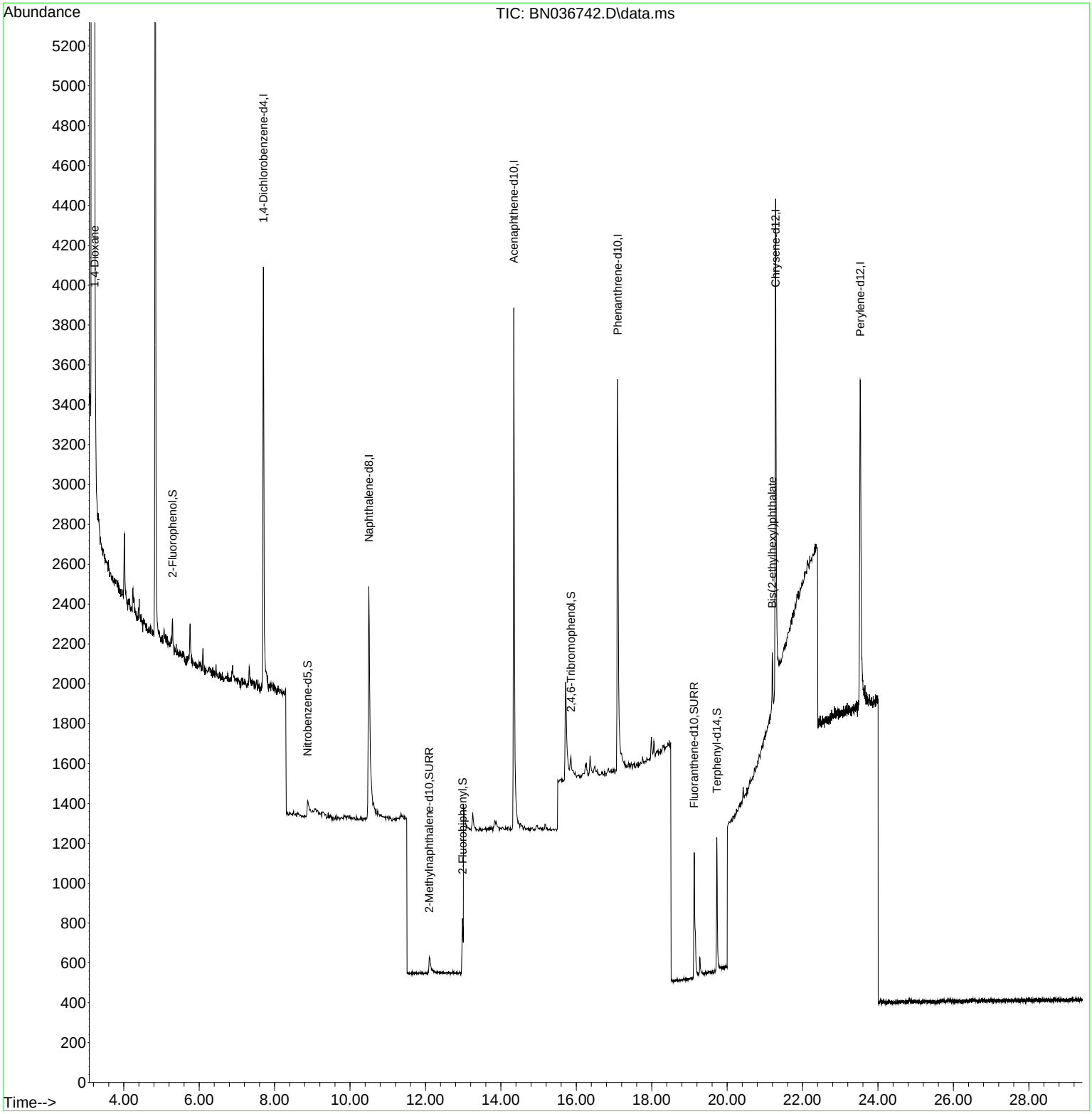
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.703	152	1243	0.400	ng	-0.02
7) Naphthalene-d8	10.498	136	2699	0.400	ng	#-0.01
13) Acenaphthene-d10	14.345	164	1836	0.400	ng	-0.02
19) Phenanthrene-d10	17.099	188	4032	0.400	ng	-0.01
29) Chrysene-d12	21.286	240	3349	0.400	ng	0.00
35) Perylene-d12	23.531	264	2971	0.400	ng	-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.298	112	114	0.039	ng	-0.01
5) Phenol-d6	6.887	99	65	0.018	ng	-0.01
8) Nitrobenzene-d5	8.875	82	177	0.060	ng	0.00
11) 2-Methylnaphthalene-d10	12.101	152	225	0.056	ng	0.00
14) 2,4,6-Tribromophenol	15.858	330	71	0.085	ng	0.00
15) 2-Fluorobiphenyl	12.983	172	587	0.055	ng	0.00
27) Fluoranthene-d10	19.127	212	918	0.089	ng	-0.01
31) Terphenyl-d14	19.726	244	770	0.096	ng	-0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	3.225	88	2189	1.588	ng	95
34) Bis(2-ethylhexyl)phtha...	21.196	149	393	0.047	ng	95

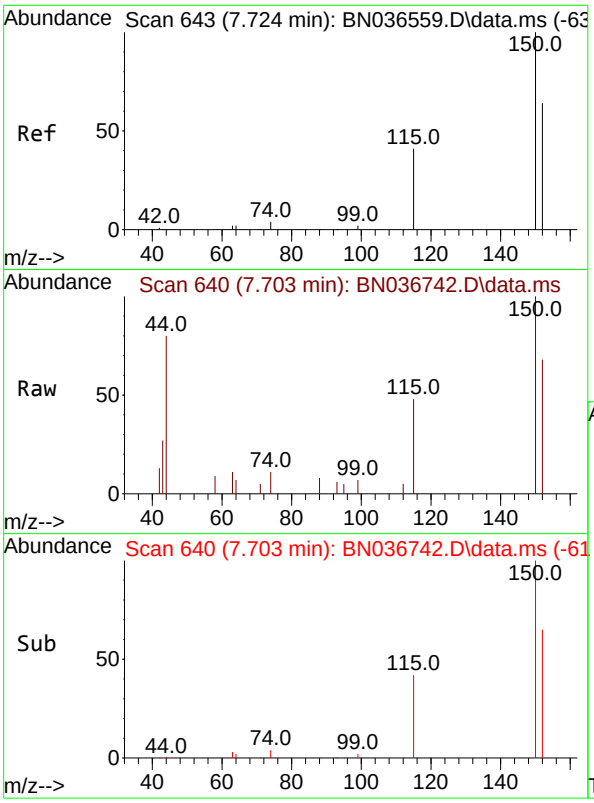
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036742.D
Acq On : 27 Mar 2025 18:02
Operator : RC/JU
Sample : Q1621-01DL 5X
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20250320DL

Quant Time: Mar 27 18:38:35 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



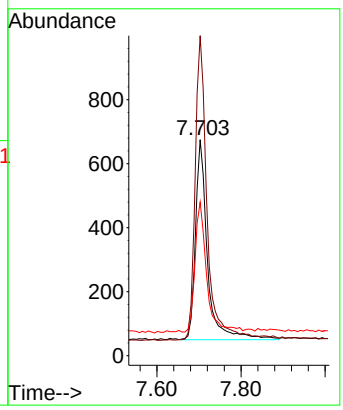


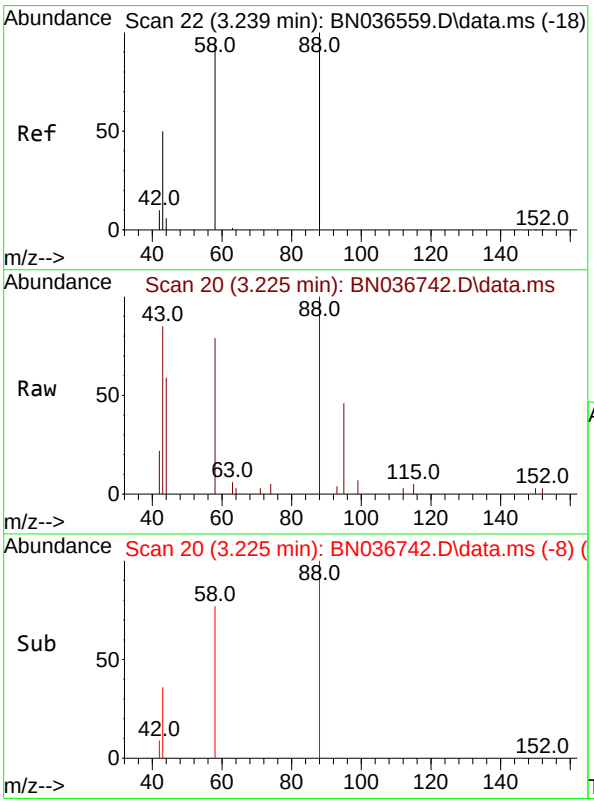
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.703 min Scan# 64
Delta R.T. -0.021 min
Lab File: BN036742.D
Acq: 27 Mar 2025 18:02

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20250320DL

Tgt Ion:152 Resp: 1243

Ion	Ratio	Lower	Upper
152	100		
150	148.1	123.7	185.5
115	71.1	54.3	81.5

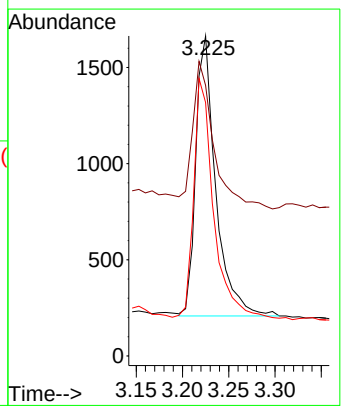


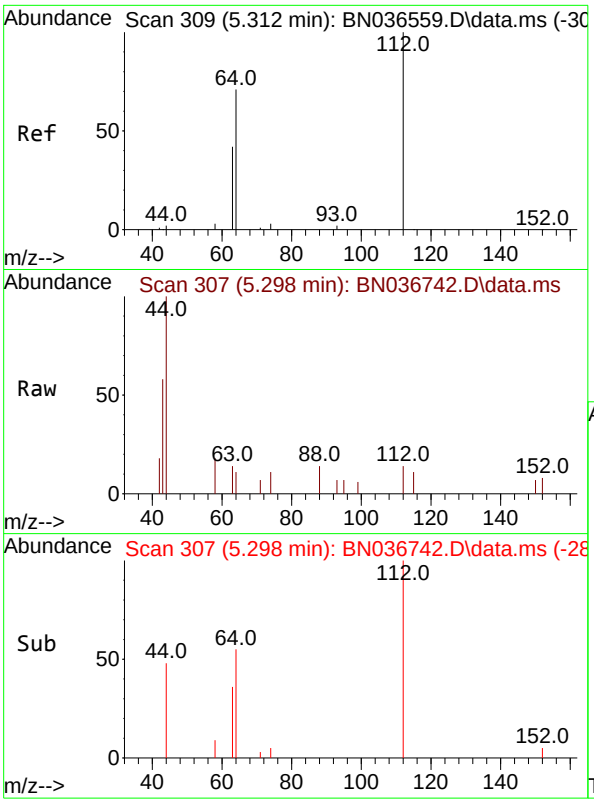


#2
1,4-Dioxane
Concen: 1.588 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036742.D
Acq: 27 Mar 2025 18:02

Tgt Ion: 88 Resp: 2189

Ion	Ratio	Lower	Upper
88	100		
43	55.9	37.8	56.8
58	85.1	67.4	101.2



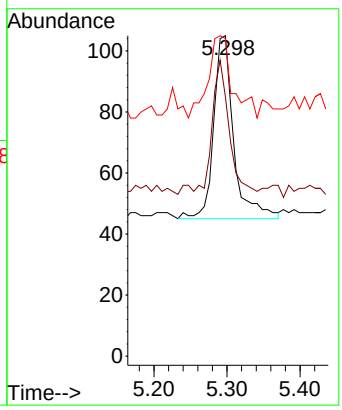


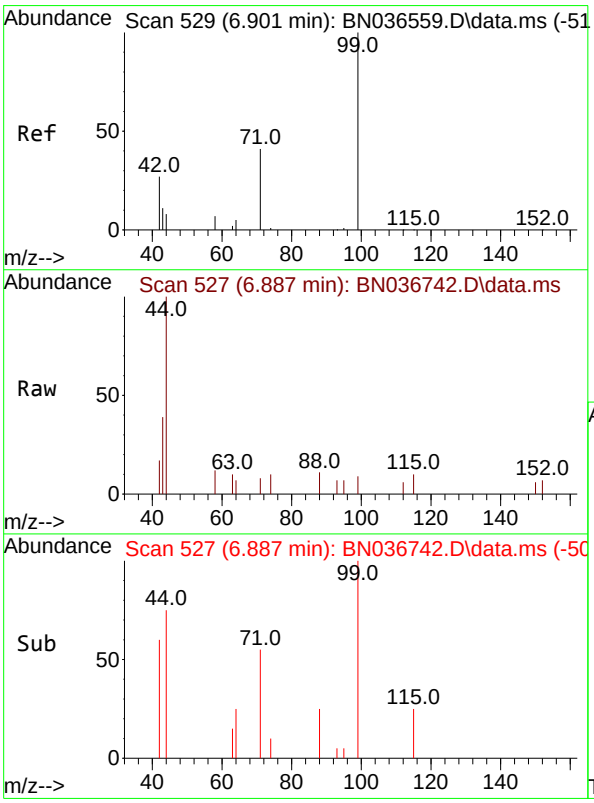
#4
2-Fluorophenol
Concen: 0.039 ng
RT: 5.298 min Scan# 3
Delta R.T. -0.014 min
Lab File: BN036742.D
Acq: 27 Mar 2025 18:02

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20250320DL

Tgt Ion:112 Resp: 114

Ion	Ratio	Lower	Upper
112	100		
64	61.4	53.1	79.7
63	54.4	31.8	47.8#

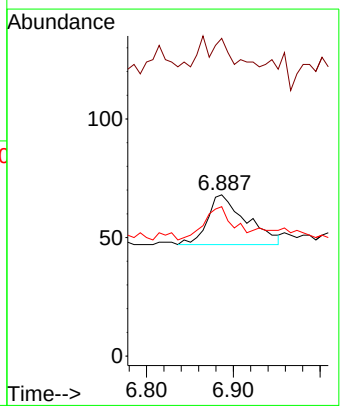


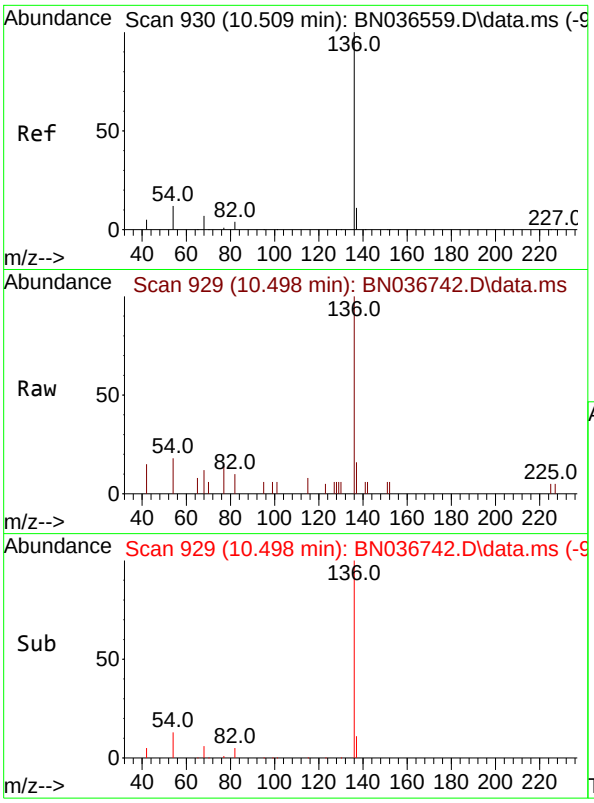


#5
Phenol-d6
Concen: 0.018 ng
RT: 6.887 min Scan# 527
Delta R.T. -0.014 min
Lab File: BN036742.D
Acq: 27 Mar 2025 18:02

Tgt Ion: 99 Resp: 65

Ion	Ratio	Lower	Upper
99	100		
42	0.0	26.5	39.7#
71	52.3	34.1	51.1#



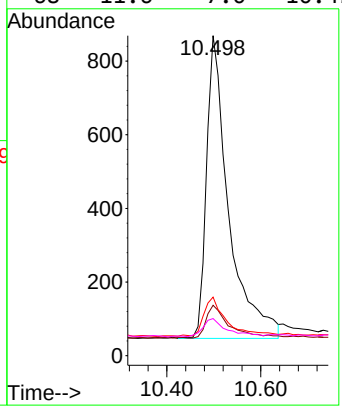


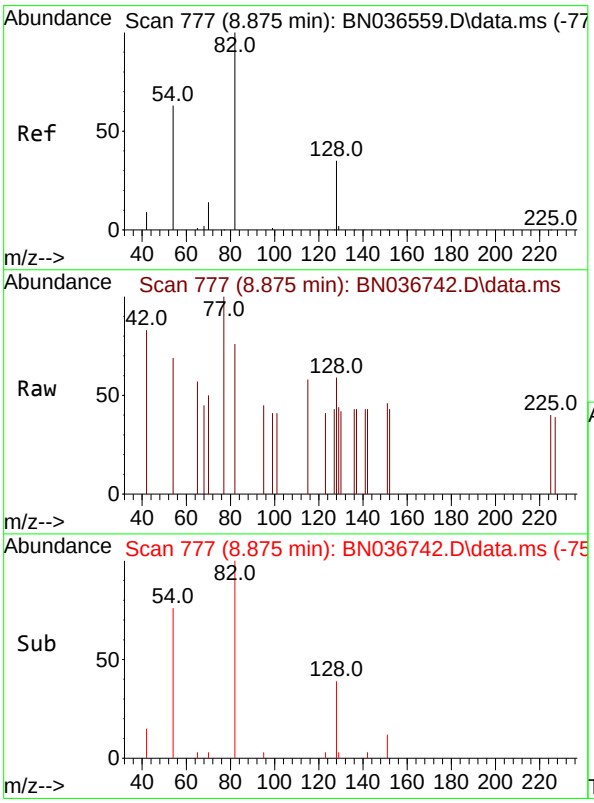
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN036742.D
Acq: 27 Mar 2025 18:02

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20250320DL

Tgt Ion:136 Resp: 2699

Ion	Ratio	Lower	Upper
136	100		
137	15.8	10.3	15.5#
54	18.3	11.5	17.3#
68	11.6	7.0	10.4#

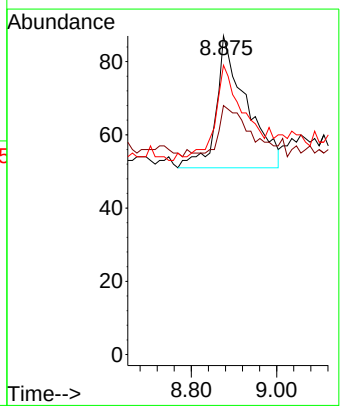


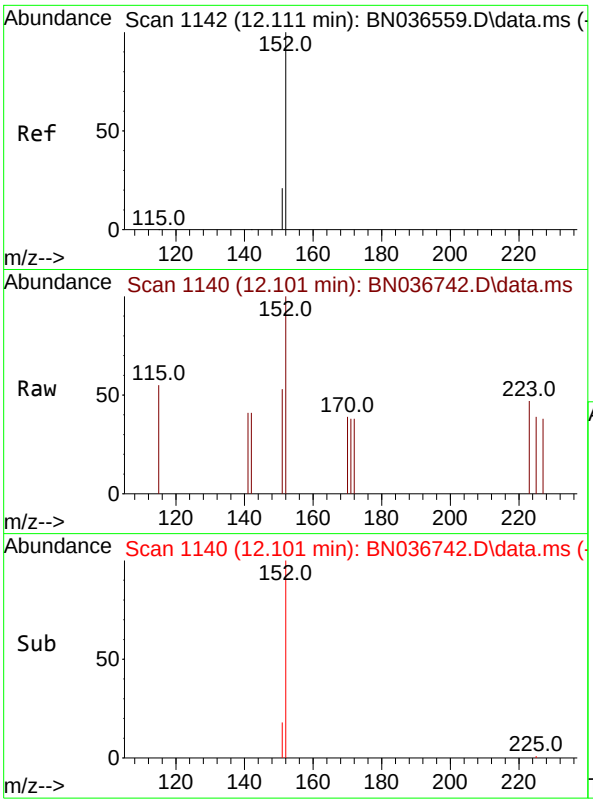


#8
Nitrobenzene-d5
Concen: 0.060 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036742.D
Acq: 27 Mar 2025 18:02

Tgt Ion: 82 Resp: 177

Ion	Ratio	Lower	Upper
82	100		
128	78.2	30.6	45.8#
54	90.8	52.2	78.4#



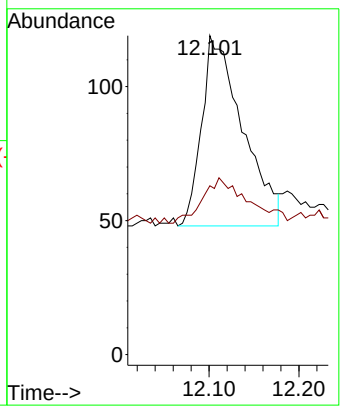


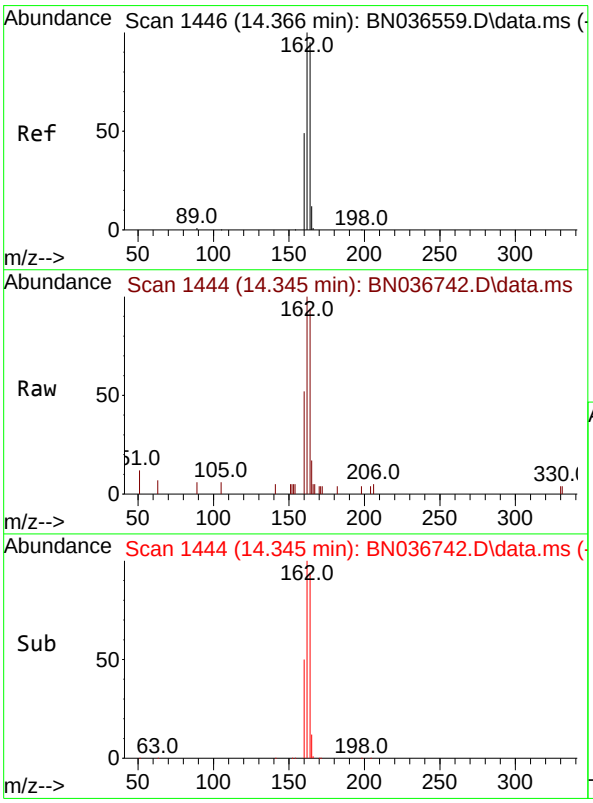
#11
2-Methylnaphthalene-d10
Concen: 0.056 ng
RT: 12.101 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN036742.D
Acq: 27 Mar 2025 18:02

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20250320DL

Tgt Ion:152 Resp: 225

Ion	Ratio	Lower	Upper
152	100		
151	24.4	17.0	25.6

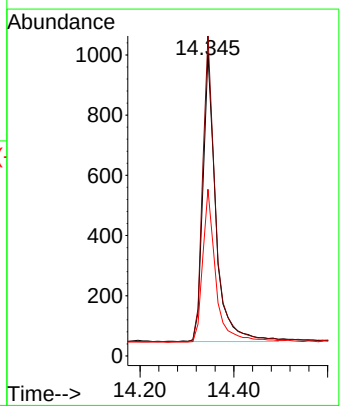


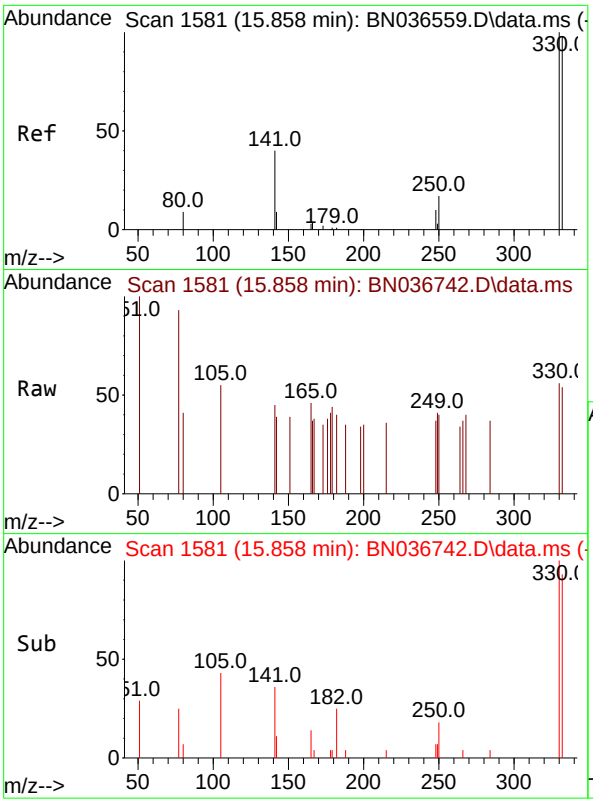


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 1444
Delta R.T. -0.021 min
Lab File: BN036742.D
Acq: 27 Mar 2025 18:02

Tgt Ion:164 Resp: 1836

Ion	Ratio	Lower	Upper
164	100		
162	106.3	84.2	126.2
160	55.4	42.2	63.2



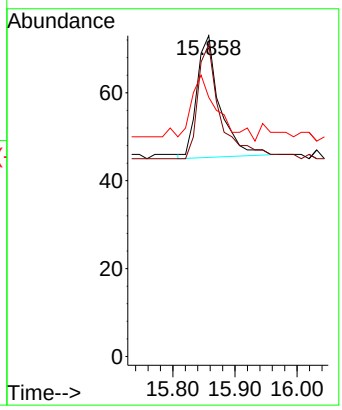


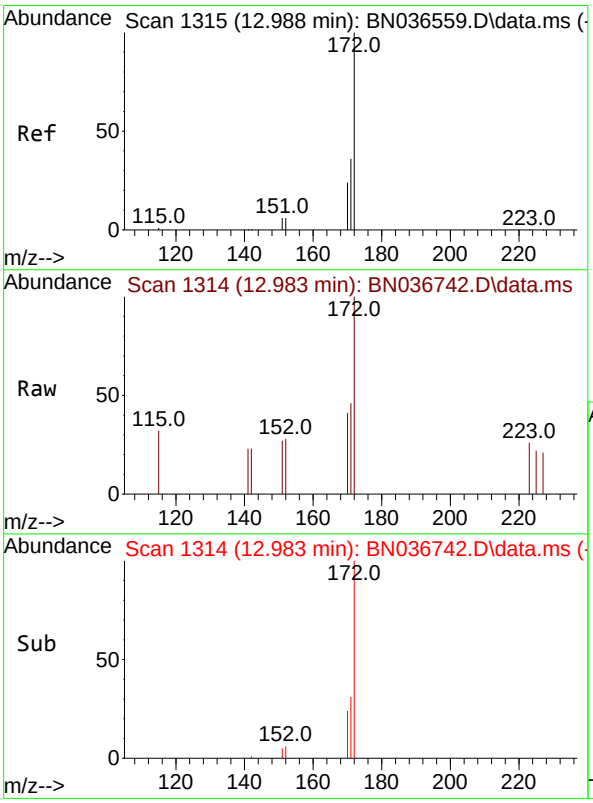
#14
2,4,6-Tribromophenol
Concen: 0.085 ng
RT: 15.858 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036742.D
Acq: 27 Mar 2025 18:02

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20250320DL

Tgt Ion:330 Resp: 71

Ion	Ratio	Lower	Upper
330	100		
332	93.0	75.2	112.8
141	52.1	43.4	65.2

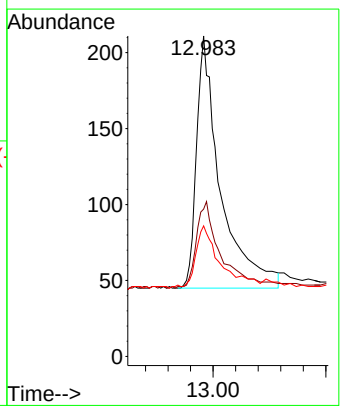


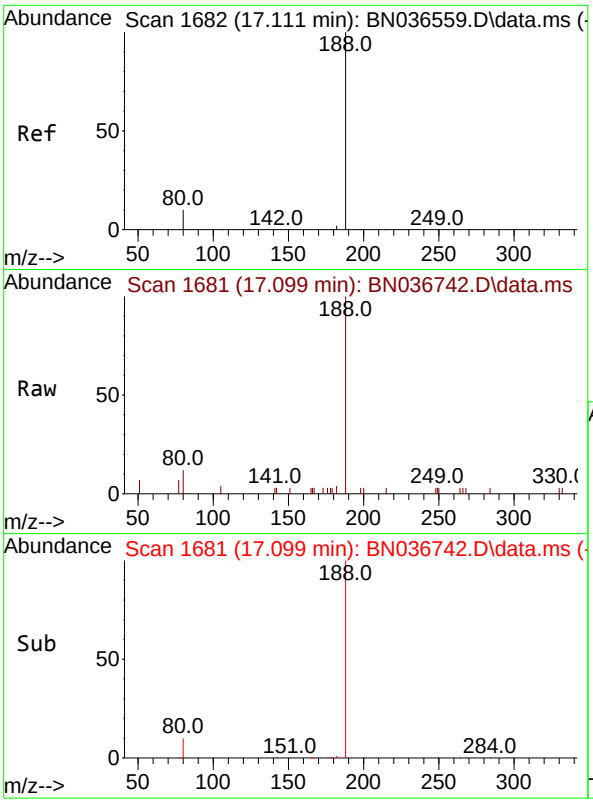


#15
2-Fluorobiphenyl
Concen: 0.055 ng
RT: 12.983 min Scan# 1314
Delta R.T. -0.005 min
Lab File: BN036742.D
Acq: 27 Mar 2025 18:02

Tgt Ion:172 Resp: 587

Ion	Ratio	Lower	Upper
172	100		
171	46.0	29.5	44.3#
170	40.8	20.2	30.4#



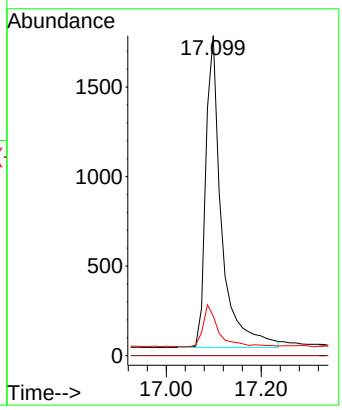


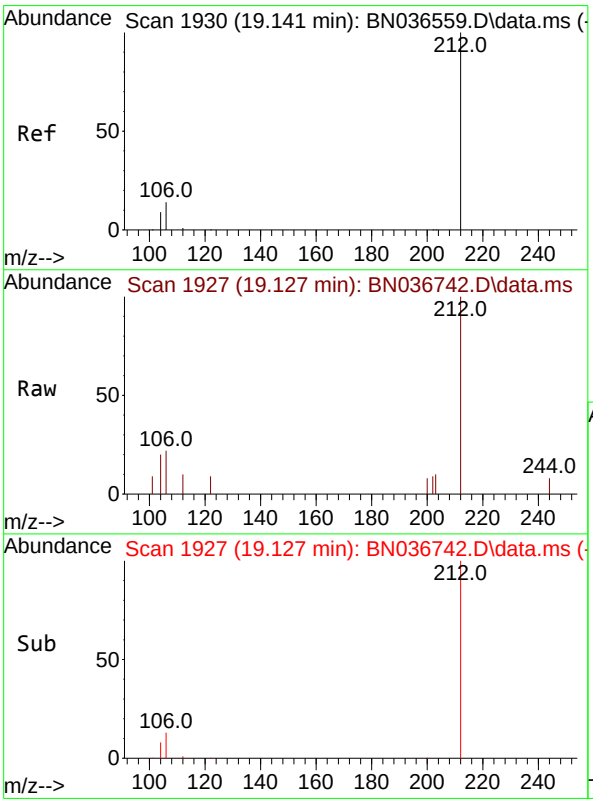
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.099 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN036742.D
Acq: 27 Mar 2025 18:02

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20250320DL

Tgt Ion:188 Resp: 4032

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.4	8.8	13.2

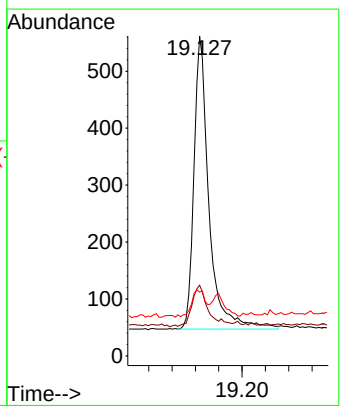


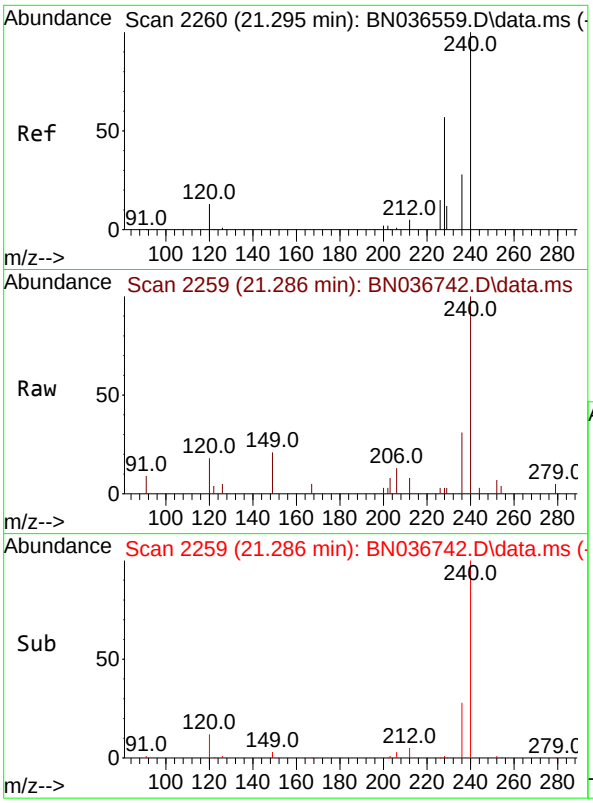


#27
Fluoranthene-d10
Concen: 0.089 ng
RT: 19.127 min Scan# 1927
Delta R.T. -0.014 min
Lab File: BN036742.D
Acq: 27 Mar 2025 18:02

Tgt Ion:212 Resp: 918

Ion	Ratio	Lower	Upper
212	100		
106	15.5	11.8	17.6
104	8.4	7.3	10.9



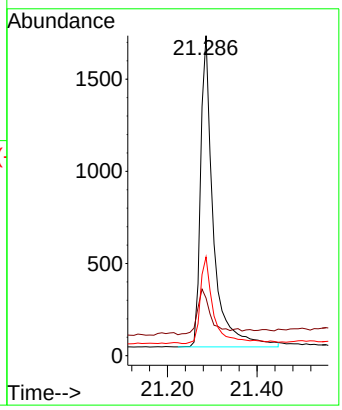


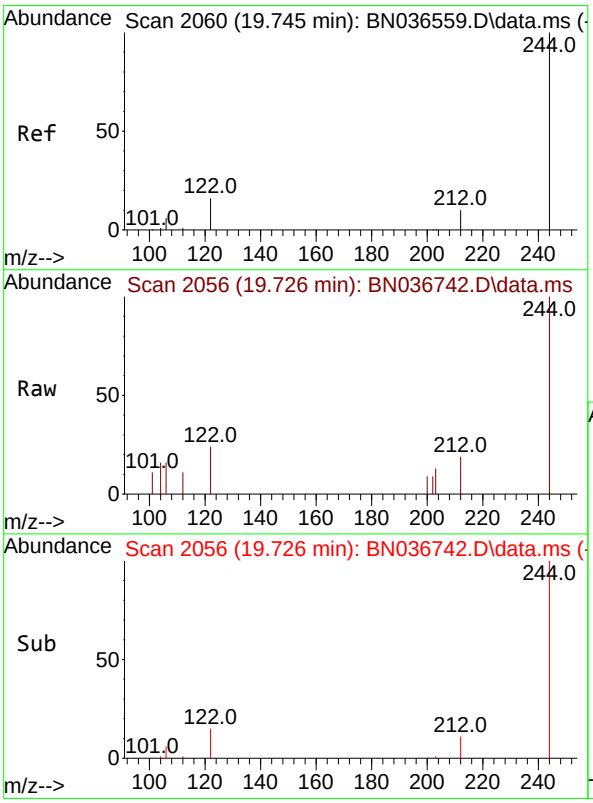
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.286 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN036742.D
Acq: 27 Mar 2025 18:02

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20250320DL

Tgt Ion:240 Resp: 3349

Ion	Ratio	Lower	Upper
240	100		
120	18.0	14.6	22.0
236	30.9	24.1	36.1

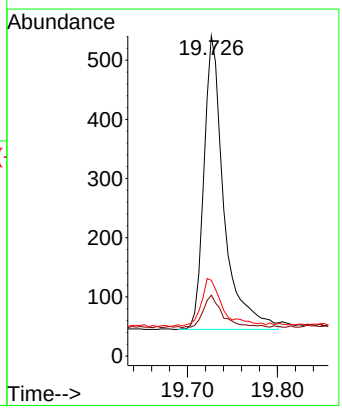


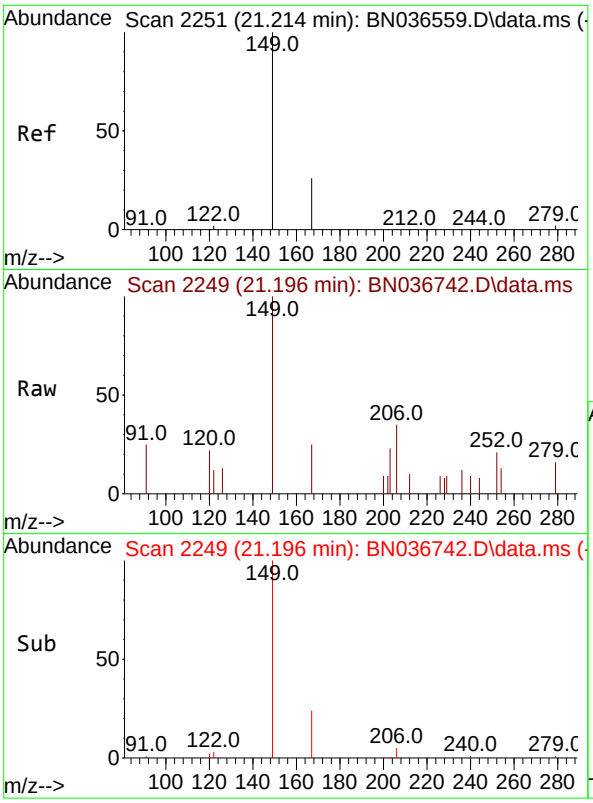


#31
Terphenyl-d14
Concen: 0.096 ng
RT: 19.726 min Scan# 2056
Delta R.T. -0.018 min
Lab File: BN036742.D
Acq: 27 Mar 2025 18:02

Tgt Ion:244 Resp: 770

Ion	Ratio	Lower	Upper
244	100		
212	19.0	9.6	14.4#
122	23.7	13.9	20.9#



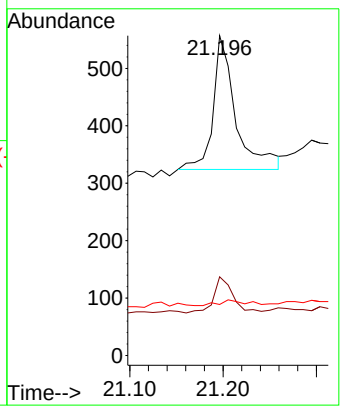


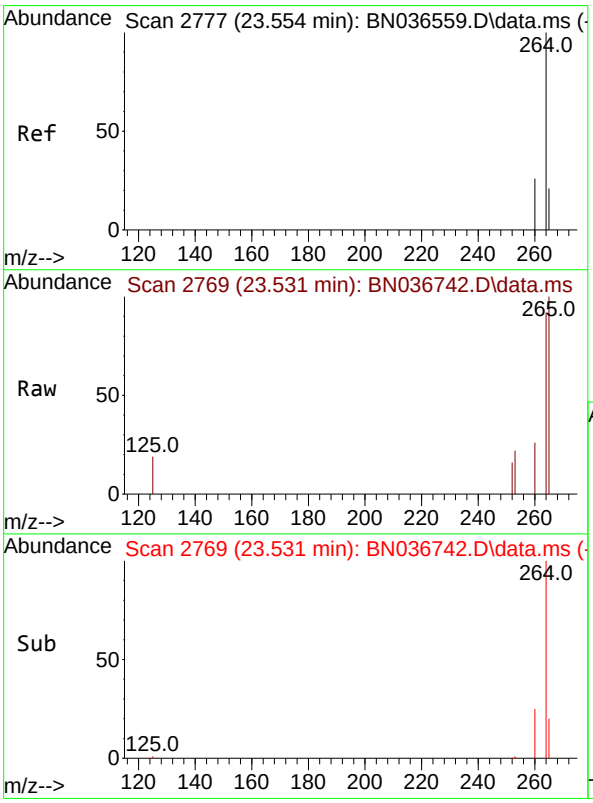
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.047 ng
RT: 21.196 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036742.D
Acq: 27 Mar 2025 18:02

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20250320DL

Tgt Ion:149 Resp: 393

Ion	Ratio	Lower	Upper
149	100		
167	22.9	20.7	31.1
279	5.3	3.6	5.4

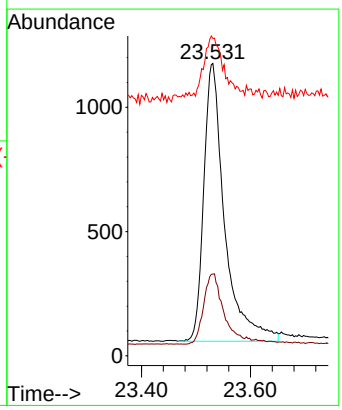




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.531 min Scan# 2769
Delta R.T. -0.023 min
Lab File: BN036742.D
Acq: 27 Mar 2025 18:02

Tgt Ion:264 Resp: 2971

Ion	Ratio	Lower	Upper
264	100		
260	28.0	22.6	33.8
265	108.6	88.1	132.1



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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	03/20/25
Project:	NWIRP Bethpage - RW5B CTO WE13 112G08005	Date Received:	03/21/25
Client Sample ID:	RW5-SP201-20250320	SDG No.:	Q1621
Lab Sample ID:	Q1621-02	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
BN036740.D	1	03/24/25 08:15	03/27/25 16:50	PB167269

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	0.32		30 - 150		81%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.44		30 - 150		110%	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		86%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.47		58 - 132		118%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1440	7.703				
1146-65-2	Naphthalene-d8	3290	10.487				
15067-26-2	Acenaphthene-d10	2040	14.345				
1517-22-2	Phenanthrene-d10	4650	17.086				
1719-03-5	Chrysene-d12	3790	21.277				
1520-96-3	Perylene-d12	3230	23.528				

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\BN032725\
Data File : BN036740.D
Acq On : 27 Mar 2025 16:50
Operator : RC/JU
Sample : Q1621-02
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW5-SP201-20250320

Quant Time: Mar 27 17:35:58 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

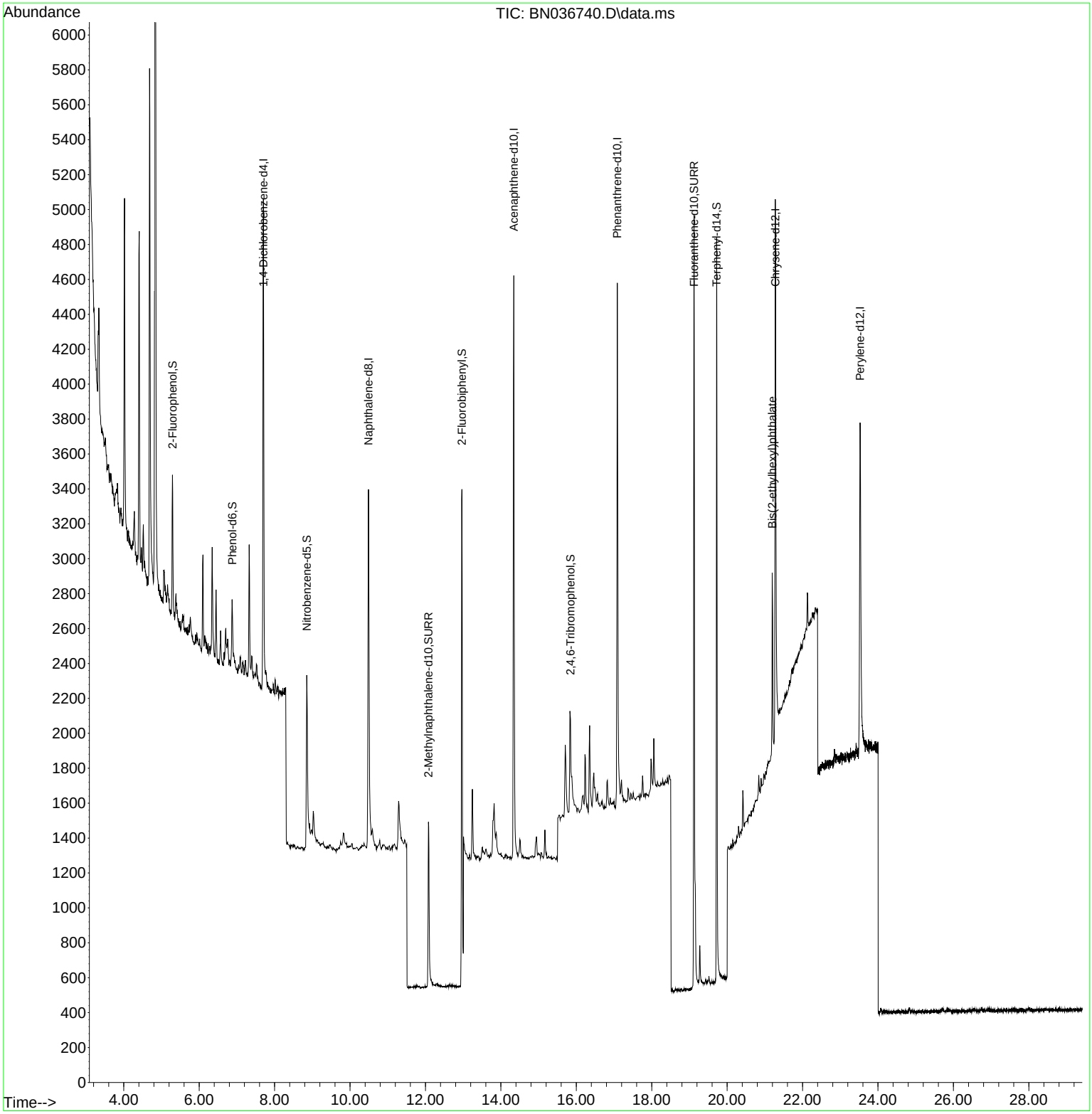
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.703	152	1438	0.400	ng	-0.02
7) Naphthalene-d8	10.487	136	3285	0.400	ng	-0.02
13) Acenaphthene-d10	14.345	164	2042	0.400	ng	-0.02
19) Phenanthrene-d10	17.086	188	4646	0.400	ng	#-0.02
29) Chrysene-d12	21.277	240	3789	0.400	ng	-0.02
35) Perylene-d12	23.528	264	3230	0.400	ng	-0.03
System Monitoring Compounds						
4) 2-Fluorophenol	5.298	112	589	0.176	ng	-0.01
5) Phenol-d6	6.879	99	364	0.088	ng	-0.02
8) Nitrobenzene-d5	8.854	82	1117	0.313	ng	-0.02
11) 2-Methylnaphthalene-d10	12.080	152	1577	0.323	ng	-0.03
14) 2,4,6-Tribromophenol	15.845	330	431	0.465	ng	-0.01
15) 2-Fluorobiphenyl	12.968	172	4062	0.342	ng	-0.02
27) Fluoranthene-d10	19.122	212	5256	0.441	ng	-0.02
31) Terphenyl-d14	19.722	244	4272	0.471	ng	-0.02
Target Compounds						Qvalue
34) Bis(2-ethylhexyl)phtha...	21.196	149	1129	0.120	ng	96

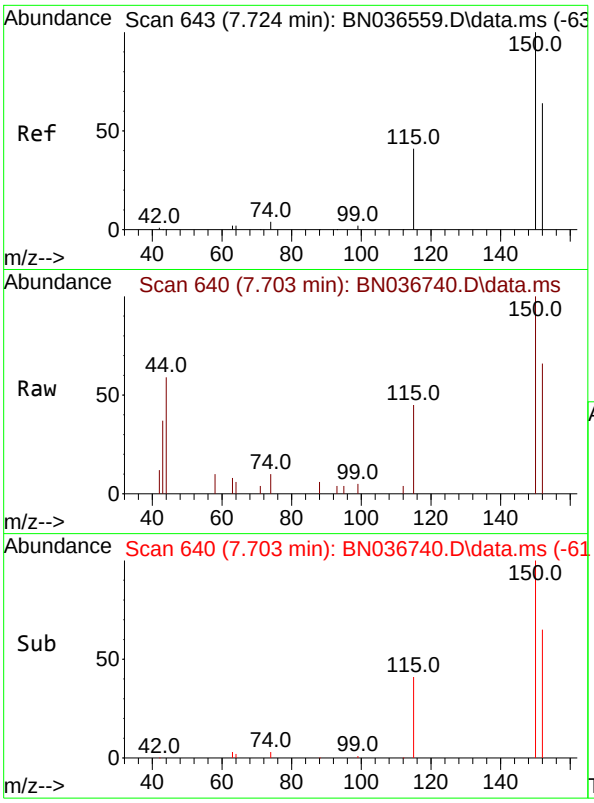
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036740.D
Acq On : 27 Mar 2025 16:50
Operator : RC/JU
Sample : Q1621-02
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW5-SP201-20250320

Quant Time: Mar 27 17:35:58 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



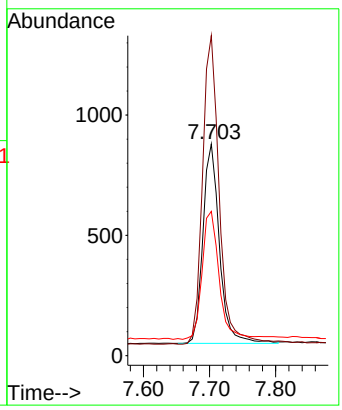


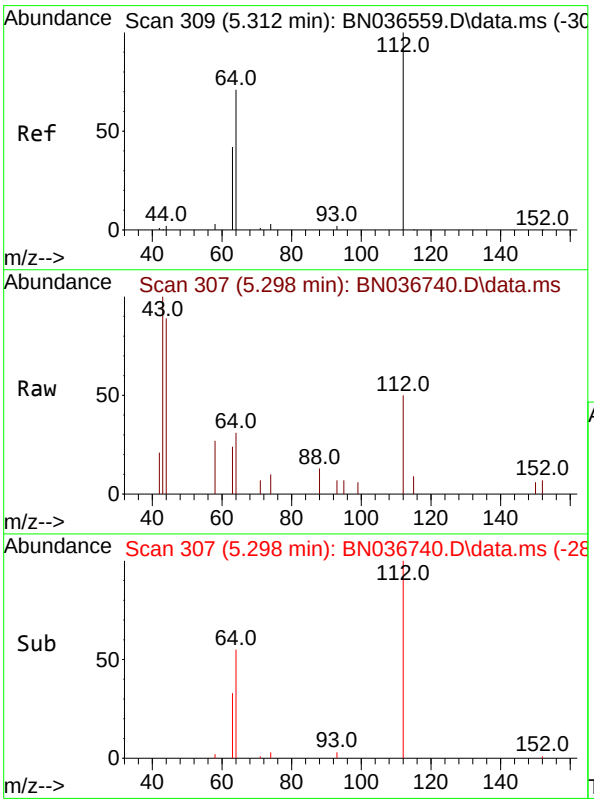
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.703 min Scan# 64
Delta R.T. -0.021 min
Lab File: BN036740.D
Acq: 27 Mar 2025 16:50

Instrument :
BNA_N
ClientSampleId :
RW5-SP201-20250320

Tgt Ion:152 Resp: 1438

Ion	Ratio	Lower	Upper
152	100		
150	151.1	123.7	185.5
115	68.2	54.3	81.5

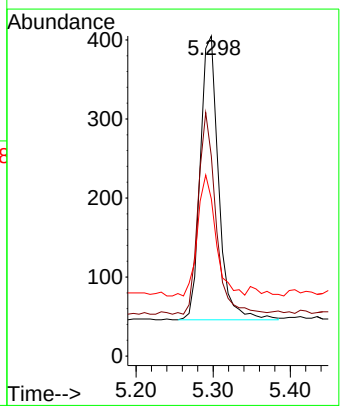


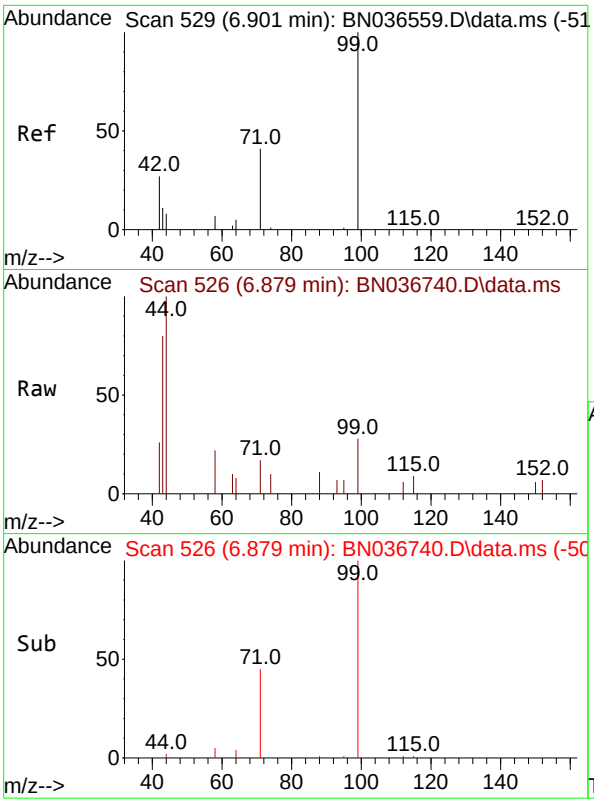


#4
2-Fluorophenol
Concen: 0.176 ng
RT: 5.298 min Scan# 307
Delta R.T. -0.014 min
Lab File: BN036740.D
Acq: 27 Mar 2025 16:50

Tgt Ion:112 Resp: 589

Ion	Ratio	Lower	Upper
112	100		
64	68.6	53.1	79.7
63	43.5	31.8	47.8



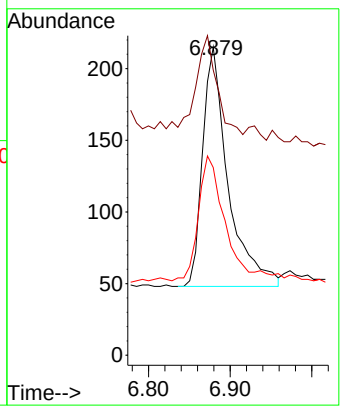


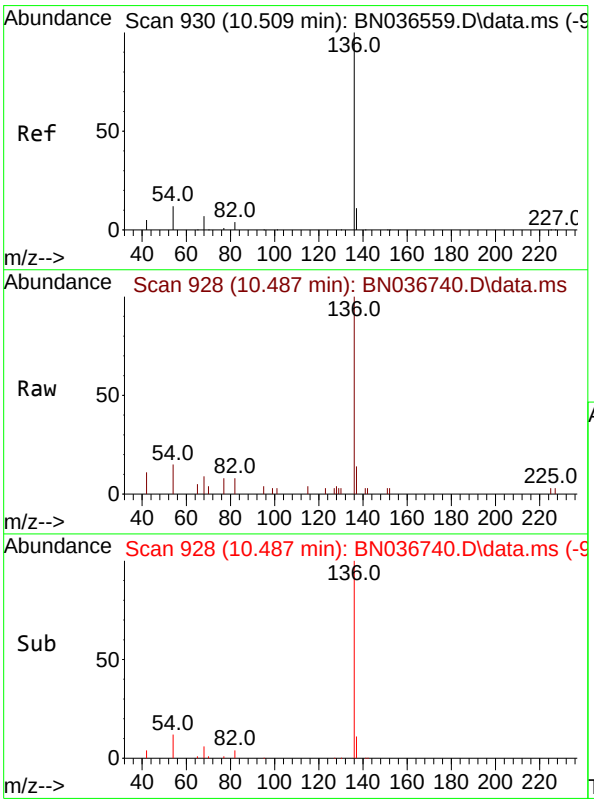
#5
Phenol-d6
Concen: 0.088 ng
RT: 6.879 min Scan# 5
Delta R.T. -0.022 min
Lab File: BN036740.D
Acq: 27 Mar 2025 16:50

Instrument :
BNA_N
ClientSampleId :
RW5-SP201-20250320

Tgt Ion: 99 Resp: 364

Ion	Ratio	Lower	Upper
99	100		
42	33.0	26.5	39.7
71	58.8	34.1	51.1#

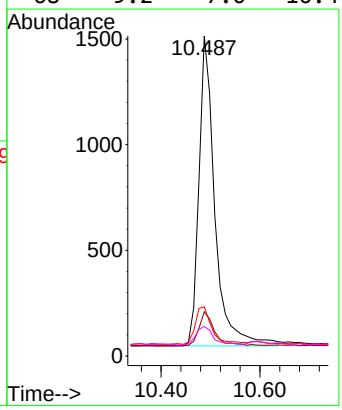


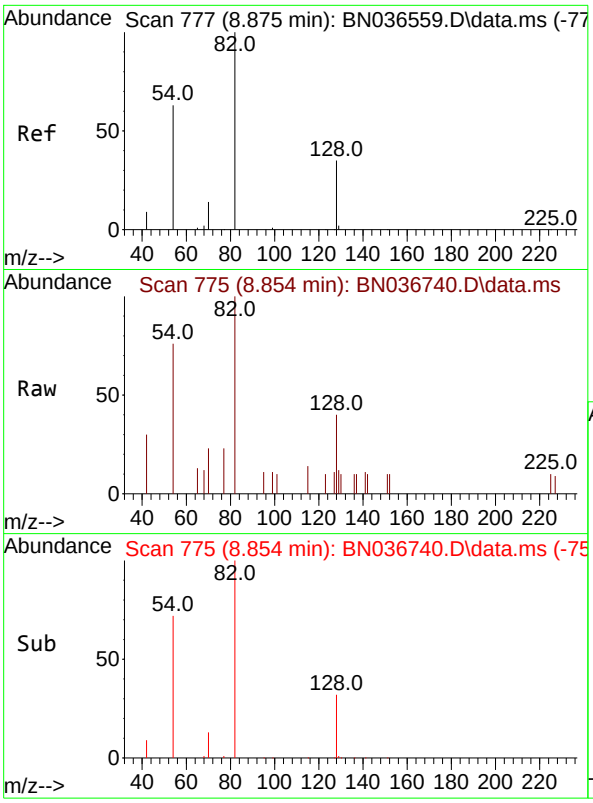


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.487 min Scan# 928
Delta R.T. -0.021 min
Lab File: BN036740.D
Acq: 27 Mar 2025 16:50

Tgt Ion:136 Resp: 3285

Ion	Ratio	Lower	Upper
136	100		
137	13.8	10.3	15.5
54	15.4	11.5	17.3
68	9.2	7.0	10.4



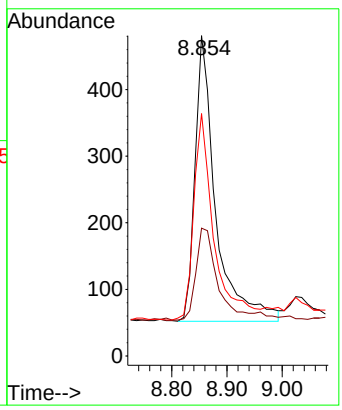


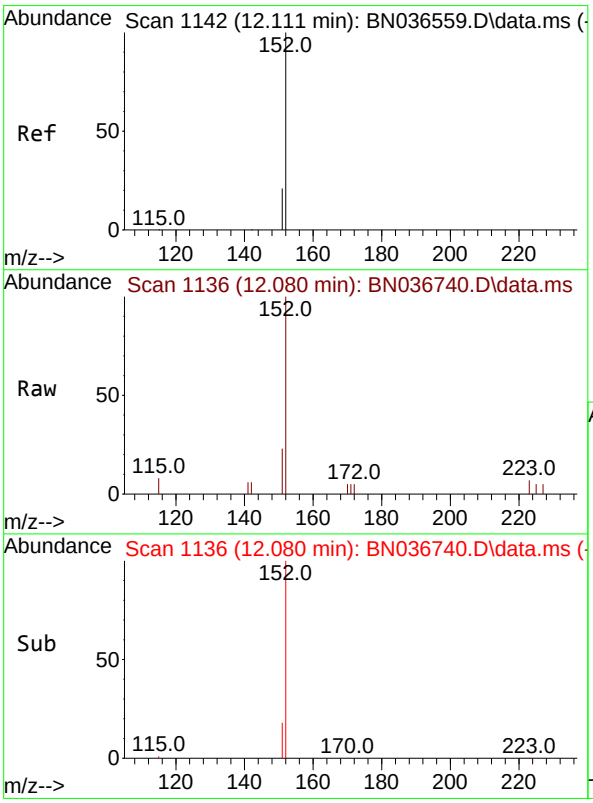
#8
Nitrobenzene-d5
Concen: 0.313 ng
RT: 8.854 min Scan# 7
Delta R.T. -0.021 min
Lab File: BN036740.D
Acq: 27 Mar 2025 16:50

Instrument :
BNA_N
ClientSampleId :
RW5-SP201-20250320

Tgt Ion: 82 Resp: 1117

Ion	Ratio	Lower	Upper
82	100		
128	39.9	30.6	45.8
54	75.7	52.2	78.4

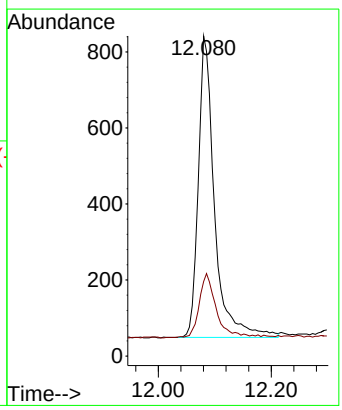


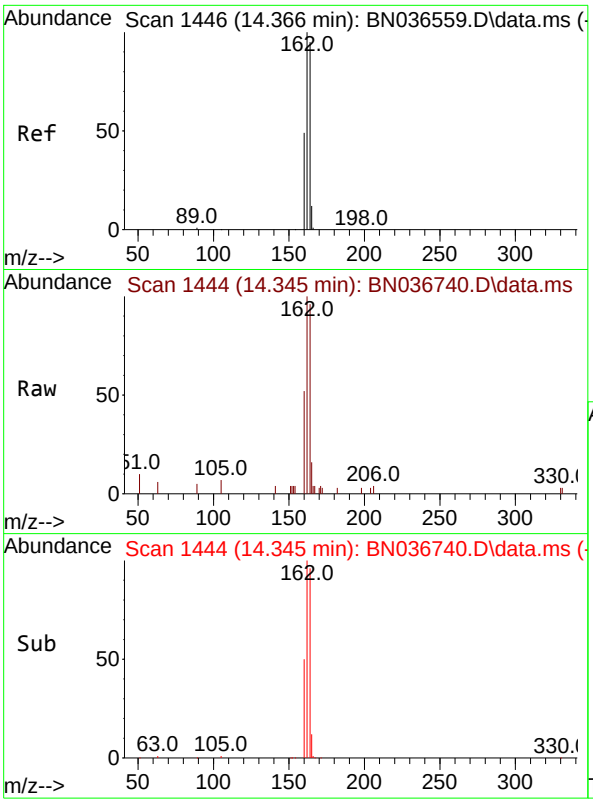


#11
2-Methylnaphthalene-d10
Concen: 0.323 ng
RT: 12.080 min Scan# 1136
Delta R.T. -0.030 min
Lab File: BN036740.D
Acq: 27 Mar 2025 16:50

Tgt Ion:152 Resp: 1577

Ion	Ratio	Lower	Upper
152	100		
151	22.4	17.0	25.6



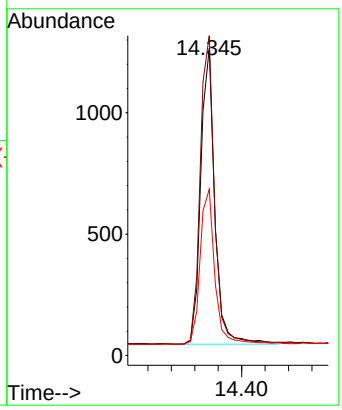


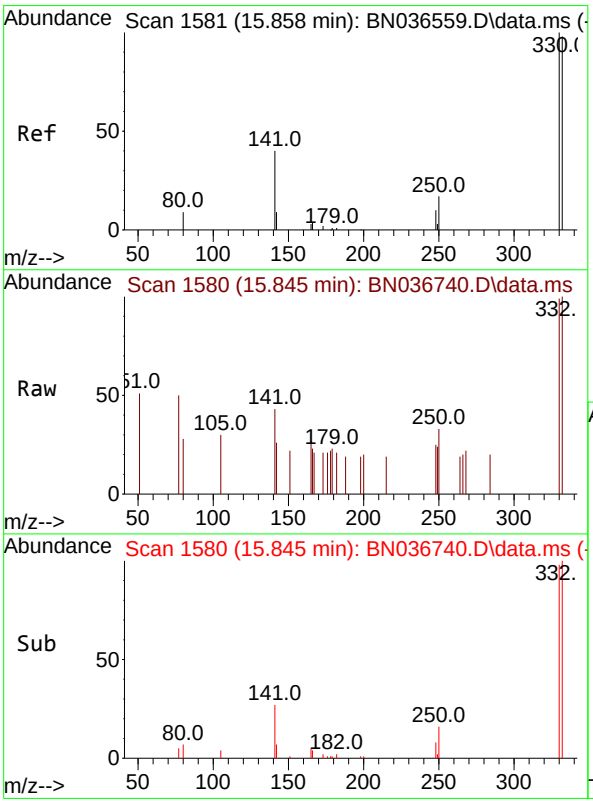
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 14
Delta R.T. -0.021 min
Lab File: BN036740.D
Acq: 27 Mar 2025 16:50

Instrument :
BNA_N
ClientSampleId :
RW5-SP201-20250320

Tgt Ion:164 Resp: 2042

Ion	Ratio	Lower	Upper
164	100		
162	104.2	84.2	126.2
160	54.2	42.2	63.2

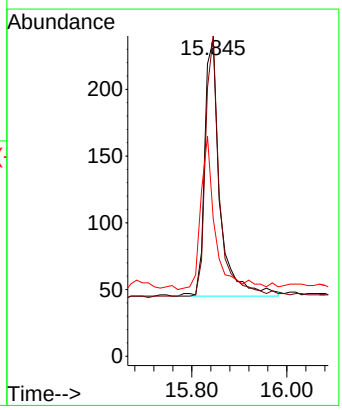


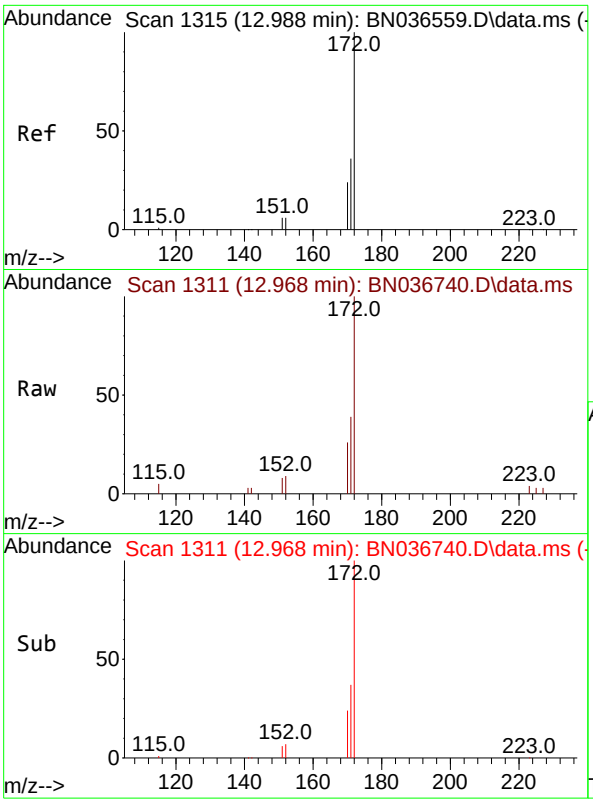


#14
2,4,6-Tribromophenol
Concen: 0.465 ng
RT: 15.845 min Scan# 1580
Delta R.T. -0.012 min
Lab File: BN036740.D
Acq: 27 Mar 2025 16:50

Tgt Ion:330 Resp: 431

Ion	Ratio	Lower	Upper
330	100		
332	94.0	75.2	112.8
141	56.6	43.4	65.2



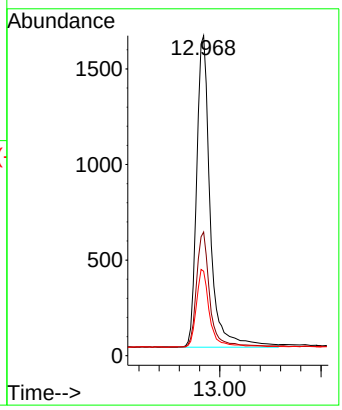


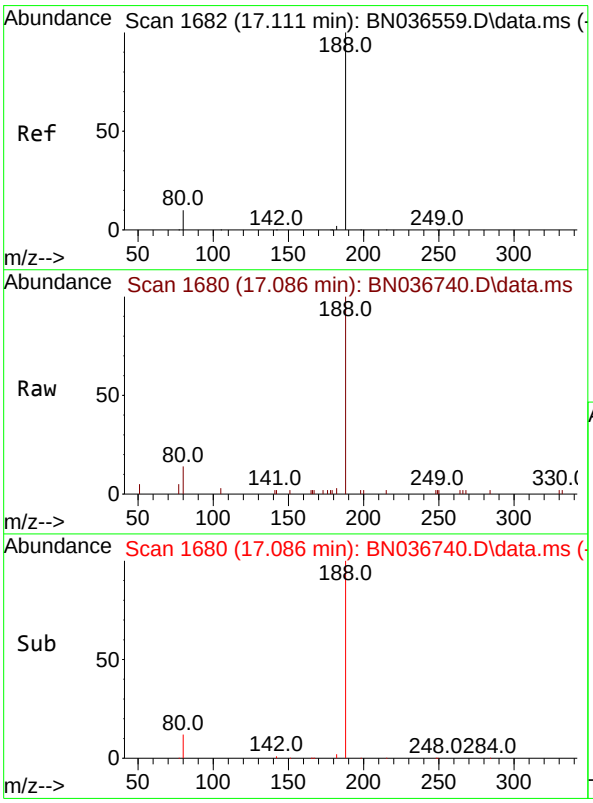
#15
2-Fluorobiphenyl
Concen: 0.342 ng
RT: 12.968 min Scan# 1
Delta R.T. -0.020 min
Lab File: BN036740.D
Acq: 27 Mar 2025 16:50

Instrument :
BNA_N
ClientSampleId :
RW5-SP201-20250320

Tgt Ion:172 Resp: 4062

Ion	Ratio	Lower	Upper
172	100		
171	38.6	29.5	44.3
170	26.4	20.2	30.4

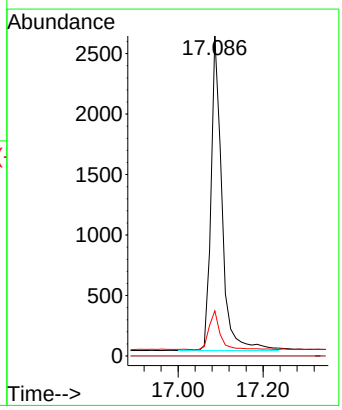


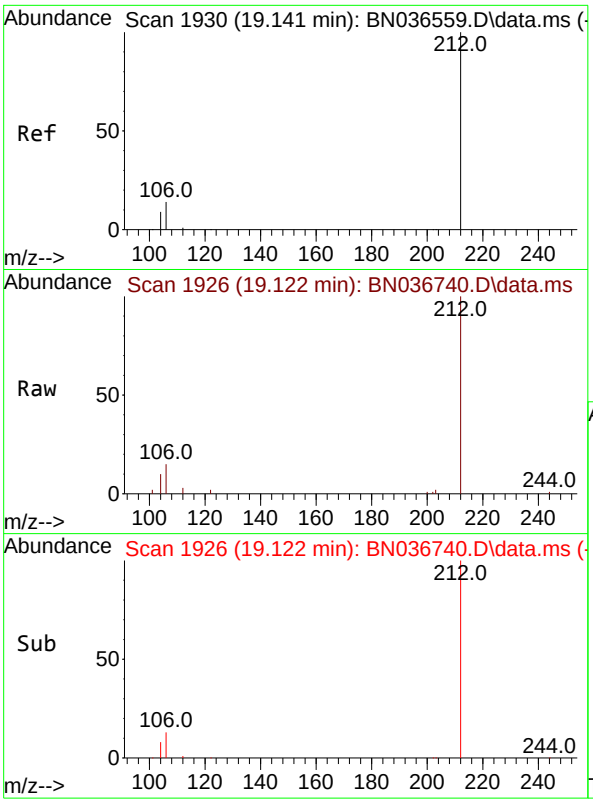


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1680
Delta R.T. -0.025 min
Lab File: BN036740.D
Acq: 27 Mar 2025 16:50

Tgt Ion:188 Resp: 4646

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	14.1	8.8	13.2#



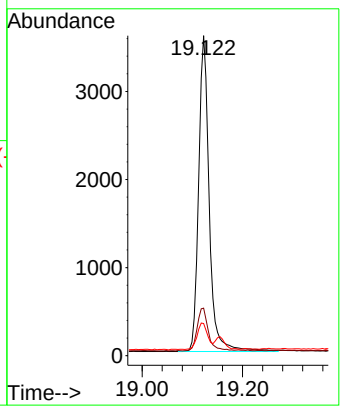


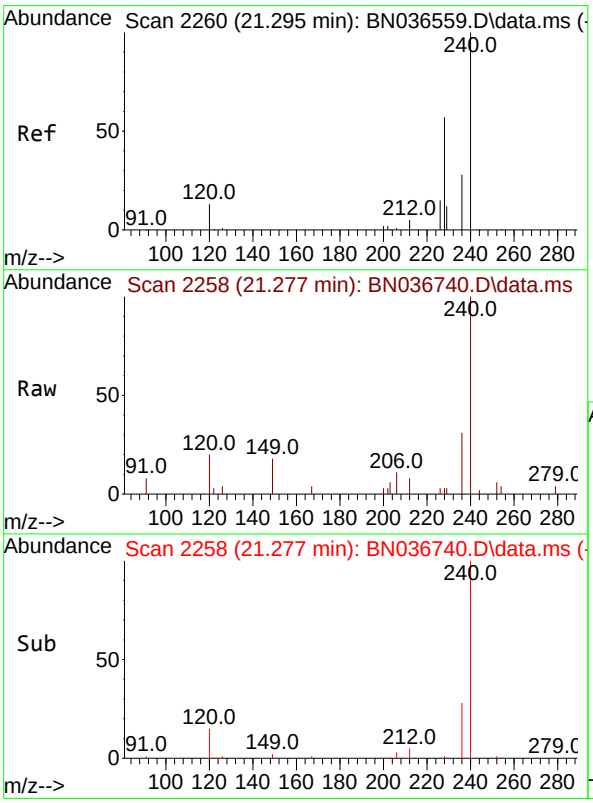
#27
Fluoranthene-d10
Concen: 0.441 ng
RT: 19.122 min Scan# 1
Delta R.T. -0.019 min
Lab File: BN036740.D
Acq: 27 Mar 2025 16:50

Instrument :
BNA_N
ClientSampleId :
RW5-SP201-20250320

Tgt Ion:212 Resp: 5256

Ion	Ratio	Lower	Upper
212	100		
106	14.2	11.8	17.6
104	8.3	7.3	10.9

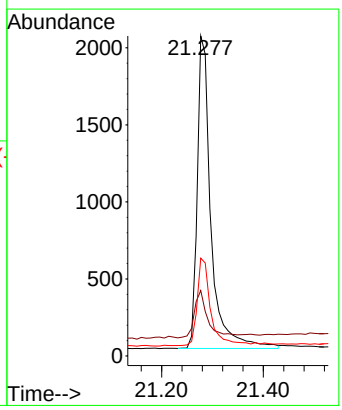


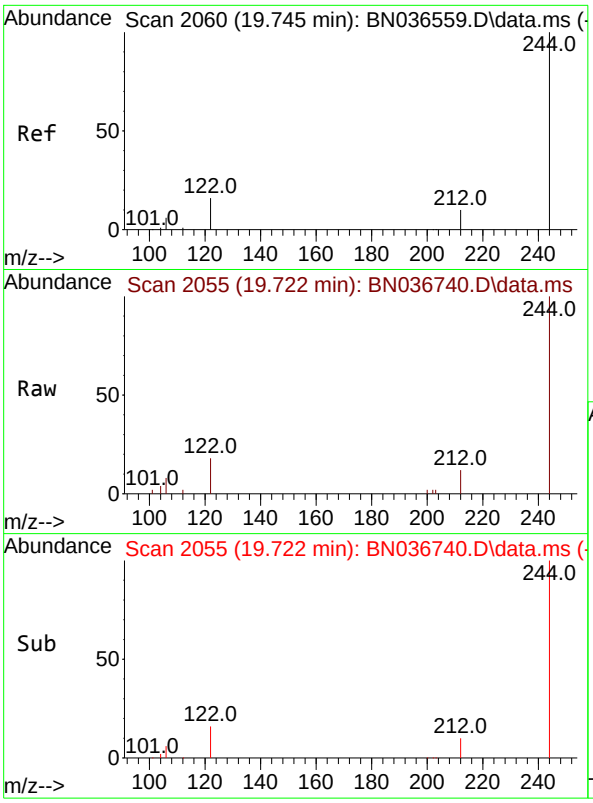


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.018 min
Lab File: BN036740.D
Acq: 27 Mar 2025 16:50

Tgt Ion:240 Resp: 3789

Ion	Ratio	Lower	Upper
240	100		
120	20.5	14.6	22.0
236	30.6	24.1	36.1



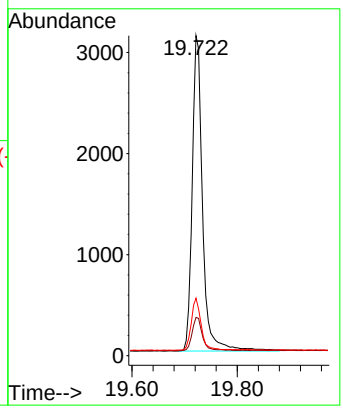


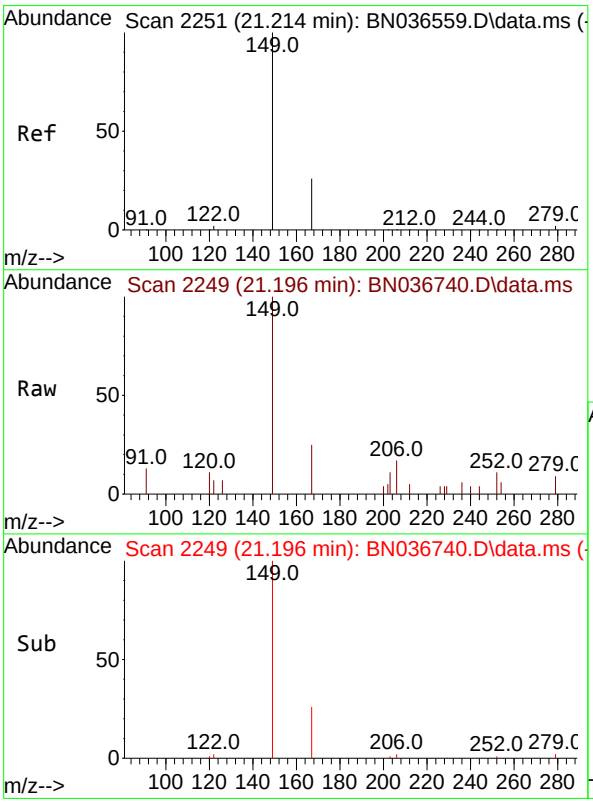
#31
Terphenyl-d14
Concen: 0.471 ng
RT: 19.722 min Scan# 2
Delta R.T. -0.023 min
Lab File: BN036740.D
Acq: 27 Mar 2025 16:50

Instrument :
BNA_N
ClientSampleId :
RW5-SP201-20250320

Tgt Ion:244 Resp: 4272

Ion	Ratio	Lower	Upper
244	100		
212	11.9	9.6	14.4
122	18.0	13.9	20.9

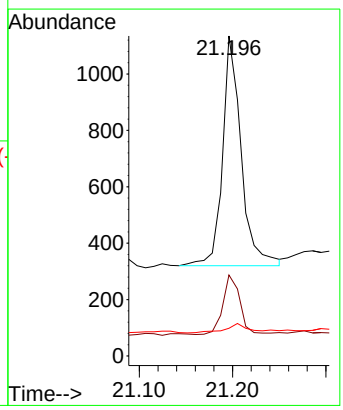


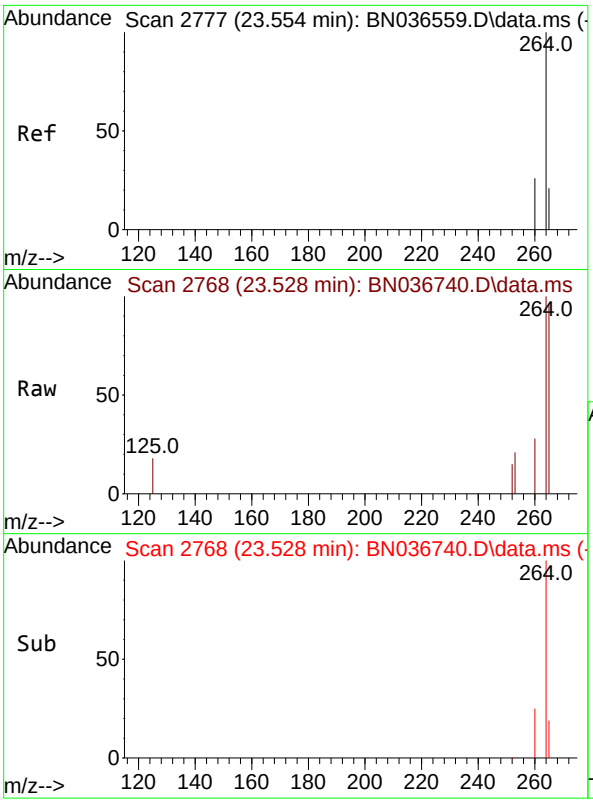


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.120 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036740.D
Acq: 27 Mar 2025 16:50

Tgt Ion:149 Resp: 1129

Ion	Ratio	Lower	Upper
149	100		
167	23.7	20.7	31.1
279	4.8	3.6	5.4



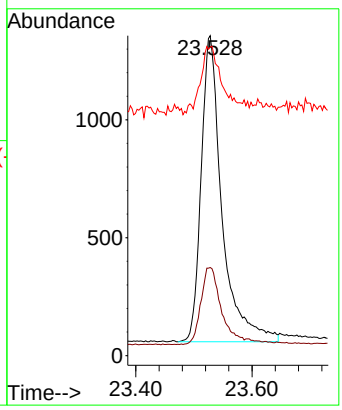


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.528 min Scan# 2
Delta R.T. -0.026 min
Lab File: BN036740.D
Acq: 27 Mar 2025 16:50

Instrument :
BNA_N
ClientSampleId :
RW5-SP201-20250320

Tgt Ion:264 Resp: 3230

Ion	Ratio	Lower	Upper
264	100		
260	27.6	22.6	33.8
265	96.4	88.1	132.1



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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	03/20/25
Project:	NWIRP Bethpage - RW5B CTO WE13 112G08005	Date Received:	03/21/25
Client Sample ID:	RW5-SP303-20250320	SDG No.:	Q1621
Lab Sample ID:	Q1621-03	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
BN036741.D	1	03/24/25 08:15	03/27/25 17:26	PB167269

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	0.31		30 - 150		79%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.46		30 - 150		116%	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		84%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.46		58 - 132		115%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1320	7.703				
1146-65-2	Naphthalene-d8	3210	10.487				
15067-26-2	Acenaphthene-d10	2060	14.345				
1517-22-2	Phenanthrene-d10	4580	17.086				
1719-03-5	Chrysene-d12	3930	21.277				
1520-96-3	Perylene-d12	3540	23.528				

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\BN032725\
Data File : BN036741.D
Acq On : 27 Mar 2025 17:26
Operator : RC/JU
Sample : Q1621-03
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20250320

Quant Time: Mar 27 18:12:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

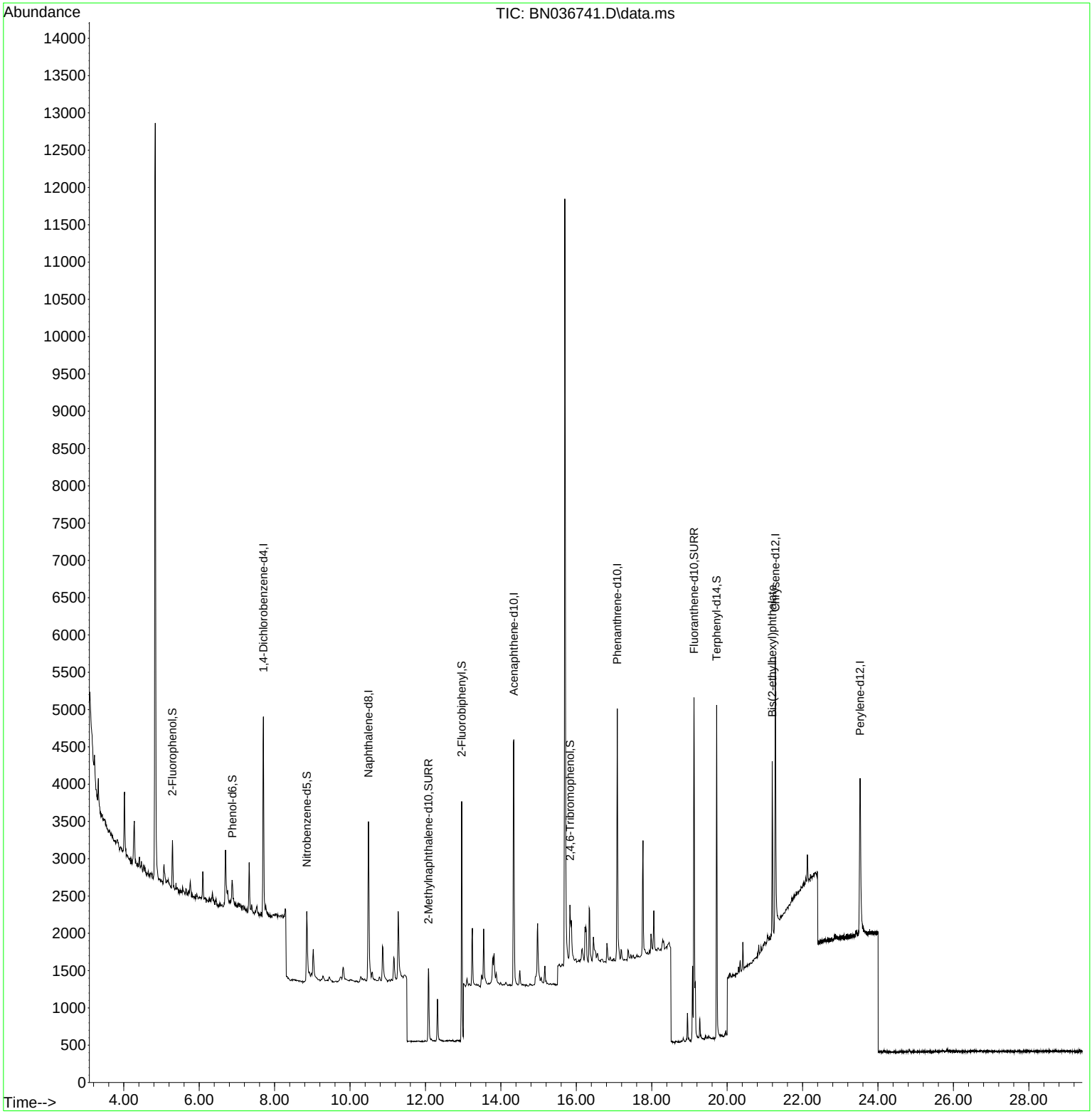
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.703	152	1324	0.400	ng	-0.02
7) Naphthalene-d8	10.487	136	3208	0.400	ng	-0.02
13) Acenaphthene-d10	14.345	164	2058	0.400	ng	-0.02
19) Phenanthrene-d10	17.086	188	4583	0.400	ng	-0.02
29) Chrysene-d12	21.277	240	3932	0.400	ng	-0.02
35) Perylene-d12	23.528	264	3540	0.400	ng	-0.03
System Monitoring Compounds						
4) 2-Fluorophenol	5.290	112	461	0.149	ng	-0.02
5) Phenol-d6	6.879	99	302	0.079	ng	-0.02
8) Nitrobenzene-d5	8.854	82	998	0.286	ng	-0.02
11) 2-Methylnaphthalene-d10	12.080	152	1497	0.314	ng	-0.03
14) 2,4,6-Tribromophenol	15.833	330	448	0.480	ng	-0.02
15) 2-Fluorobiphenyl	12.963	172	4021	0.336	ng	-0.03
27) Fluoranthene-d10	19.122	212	5441	0.463	ng	-0.02
31) Terphenyl-d14	19.722	244	4322	0.459	ng	-0.02
Target Compounds						Qvalue
34) Bis(2-ethylhexyl)phtha...	21.196	149	2170	0.223	ng	# 97

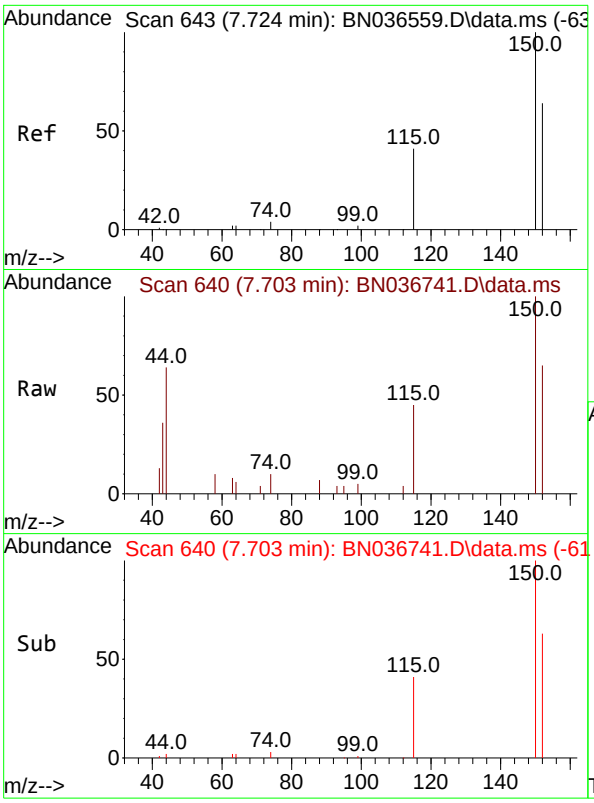
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036741.D
Acq On : 27 Mar 2025 17:26
Operator : RC/JU
Sample : Q1621-03
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20250320

Quant Time: Mar 27 18:12:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



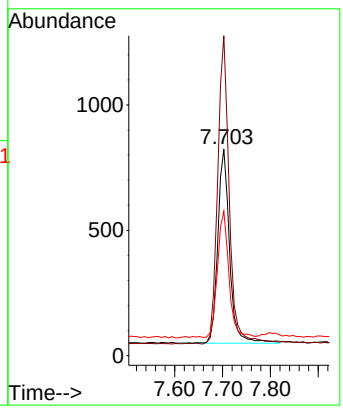


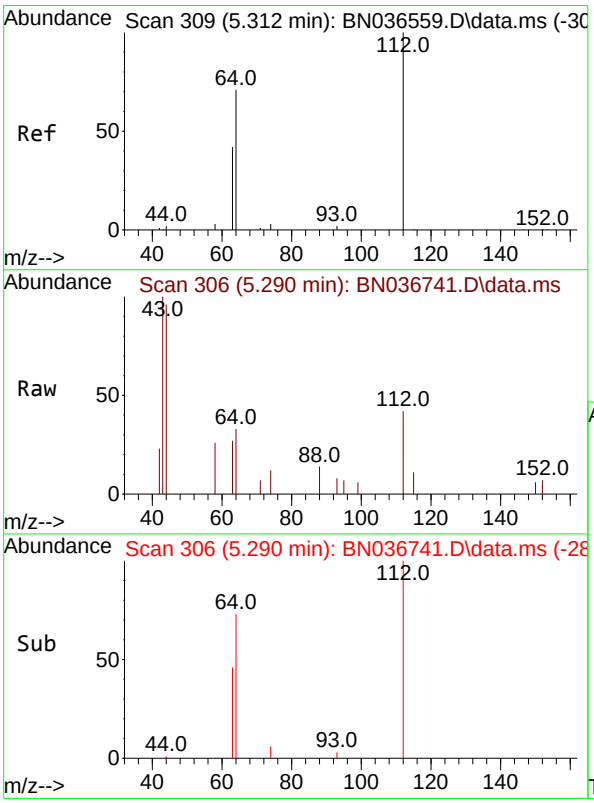
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.703 min Scan# 64
Delta R.T. -0.021 min
Lab File: BN036741.D
Acq: 27 Mar 2025 17:26

Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20250320

Tgt Ion:152 Resp: 1324

Ion	Ratio	Lower	Upper
152	100		
150	154.9	123.7	185.5
115	69.9	54.3	81.5

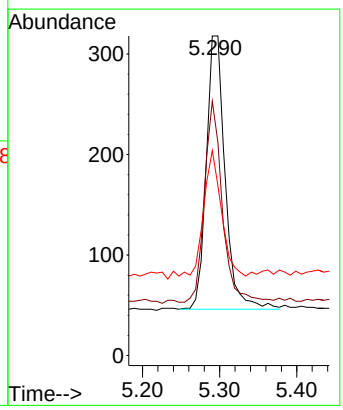


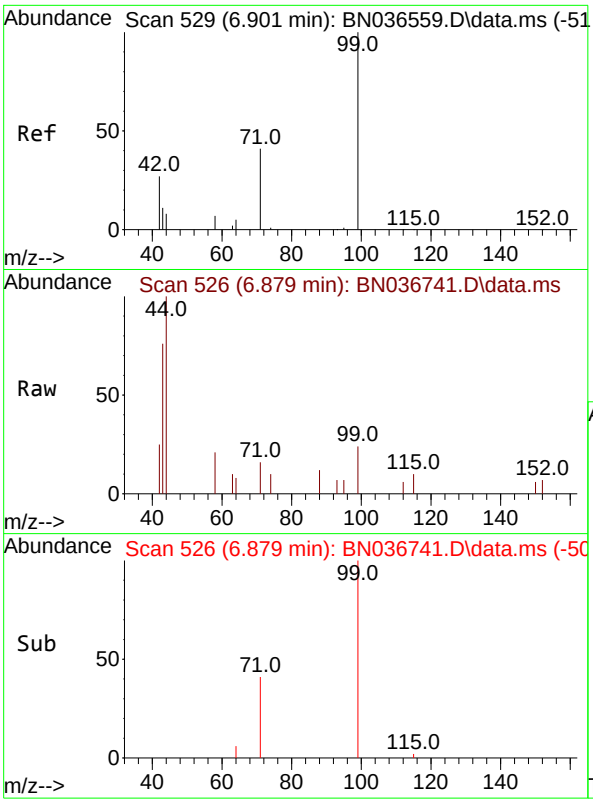


#4
2-Fluorophenol
Concen: 0.149 ng
RT: 5.290 min Scan# 306
Delta R.T. -0.022 min
Lab File: BN036741.D
Acq: 27 Mar 2025 17:26

Tgt Ion:112 Resp: 461

Ion	Ratio	Lower	Upper
112	100		
64	69.6	53.1	79.7
63	46.9	31.8	47.8



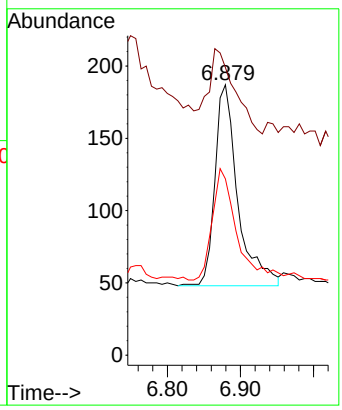


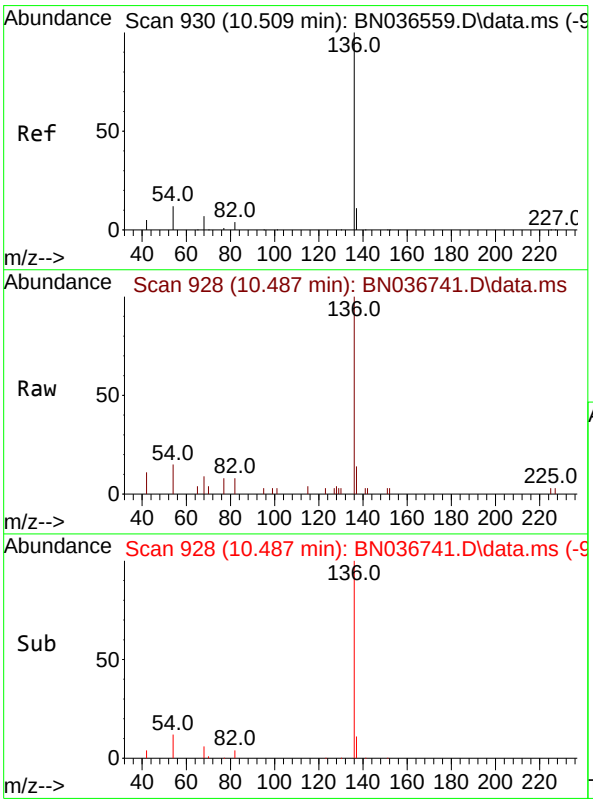
#5
Phenol-d6
Concen: 0.079 ng
RT: 6.879 min Scan# 5
Delta R.T. -0.022 min
Lab File: BN036741.D
Acq: 27 Mar 2025 17:26

Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20250320

Tgt Ion: 99 Resp: 302

Ion	Ratio	Lower	Upper
99	100		
42	50.0	26.5	39.7#
71	58.6	34.1	51.1#

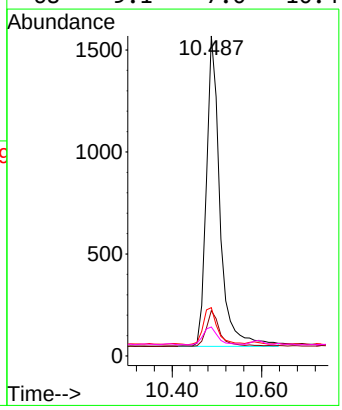


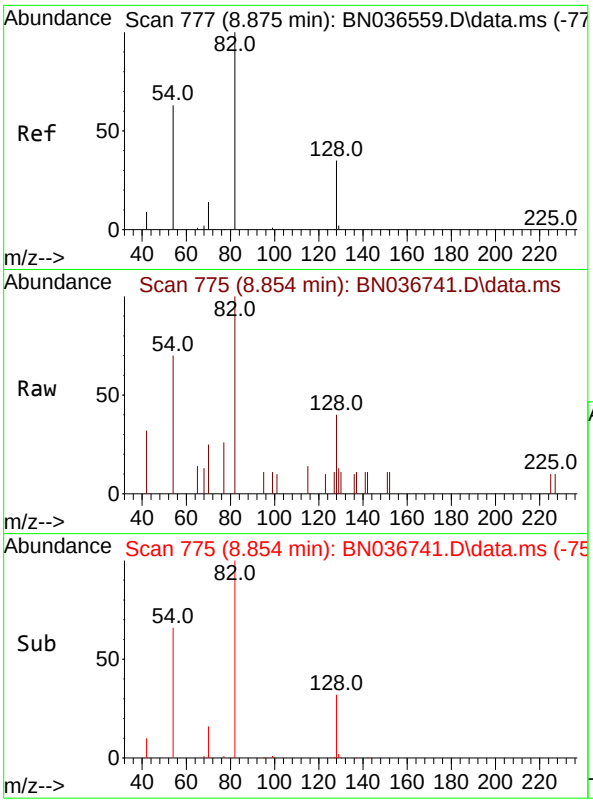


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.487 min Scan# 928
Delta R.T. -0.021 min
Lab File: BN036741.D
Acq: 27 Mar 2025 17:26

Tgt Ion:136 Resp: 3208

Ion	Ratio	Lower	Upper
136	100		
137	14.1	10.3	15.5
54	15.1	11.5	17.3
68	9.1	7.0	10.4



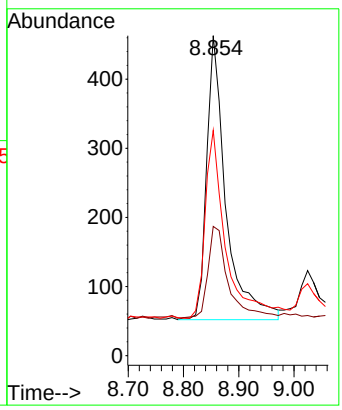


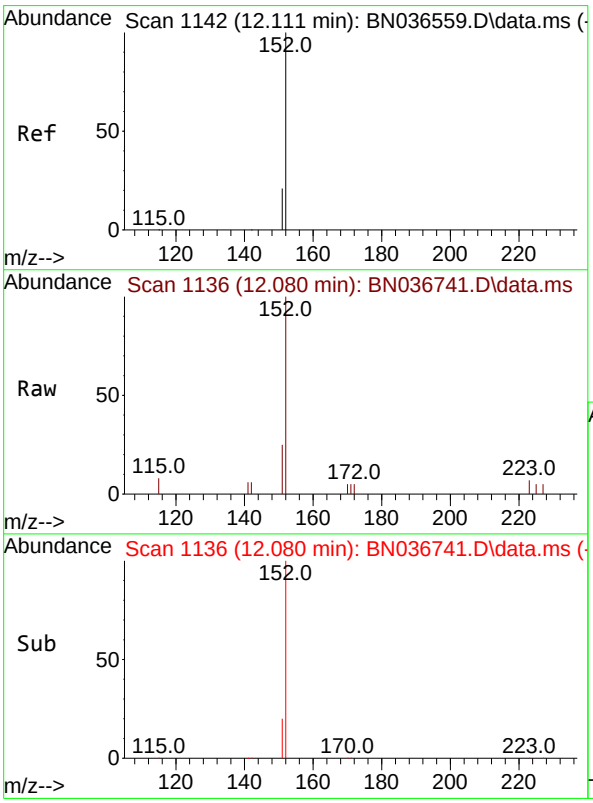
#8
Nitrobenzene-d5
Concen: 0.286 ng
RT: 8.854 min Scan# 7
Delta R.T. -0.021 min
Lab File: BN036741.D
Acq: 27 Mar 2025 17:26

Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20250320

Tgt Ion: 82 Resp: 998

Ion	Ratio	Lower	Upper
82	100		
128	40.4	30.6	45.8
54	70.4	52.2	78.4

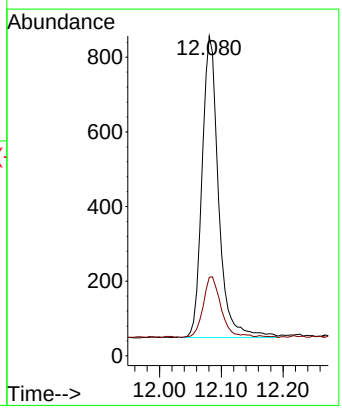


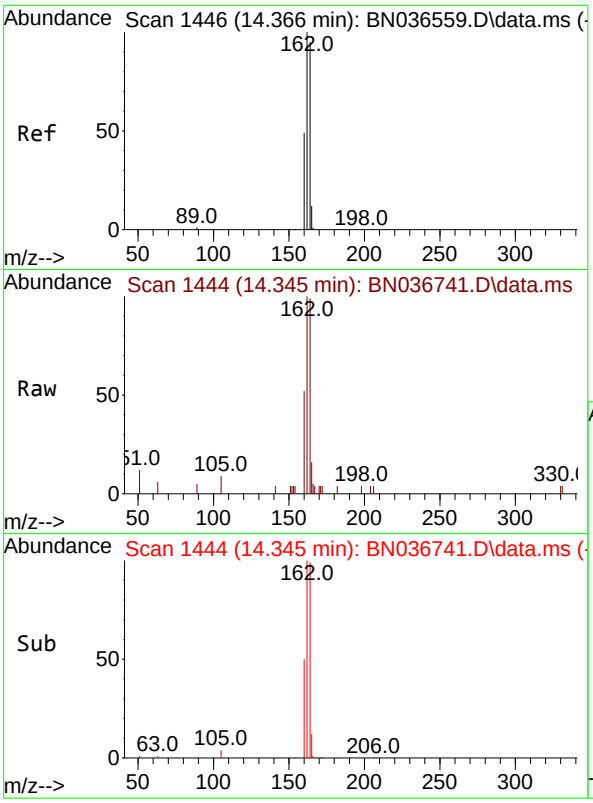


#11
2-Methylnaphthalene-d10
Concen: 0.314 ng
RT: 12.080 min Scan# 1136
Delta R.T. -0.030 min
Lab File: BN036741.D
Acq: 27 Mar 2025 17:26

Tgt Ion:152 Resp: 1497

Ion	Ratio	Lower	Upper
152	100		
151	22.1	17.0	25.6



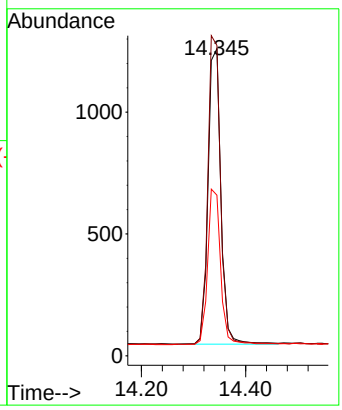


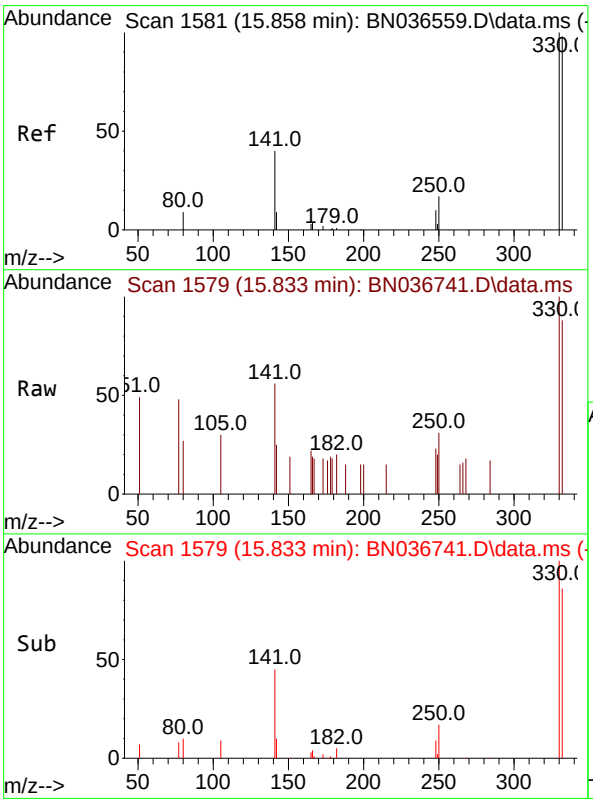
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 14
Delta R.T. -0.021 min
Lab File: BN036741.D
Acq: 27 Mar 2025 17:26

Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20250320

Tgt Ion:164 Resp: 2058

Ion	Ratio	Lower	Upper
164	100		
162	101.0	84.2	126.2
160	52.3	42.2	63.2

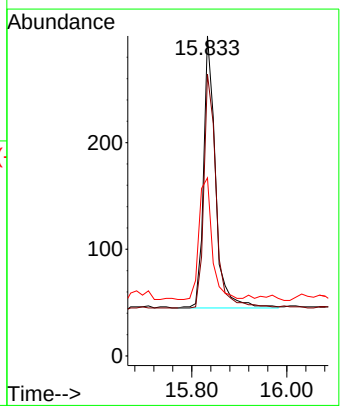


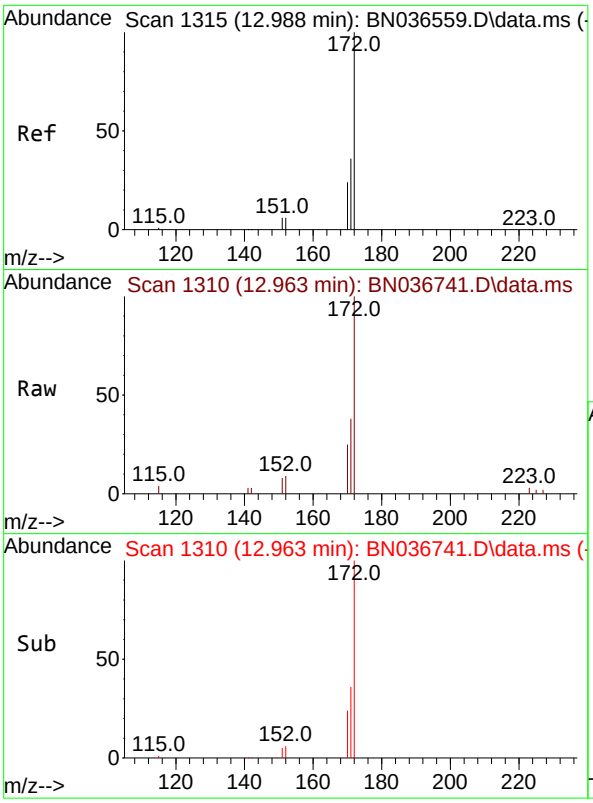


#14
2,4,6-Tribromophenol
Concen: 0.480 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.025 min
Lab File: BN036741.D
Acq: 27 Mar 2025 17:26

Tgt Ion:330 Resp: 448

Ion	Ratio	Lower	Upper
330	100		
332	88.2	75.2	112.8
141	49.1	43.4	65.2



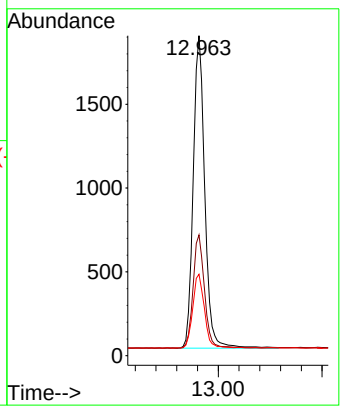


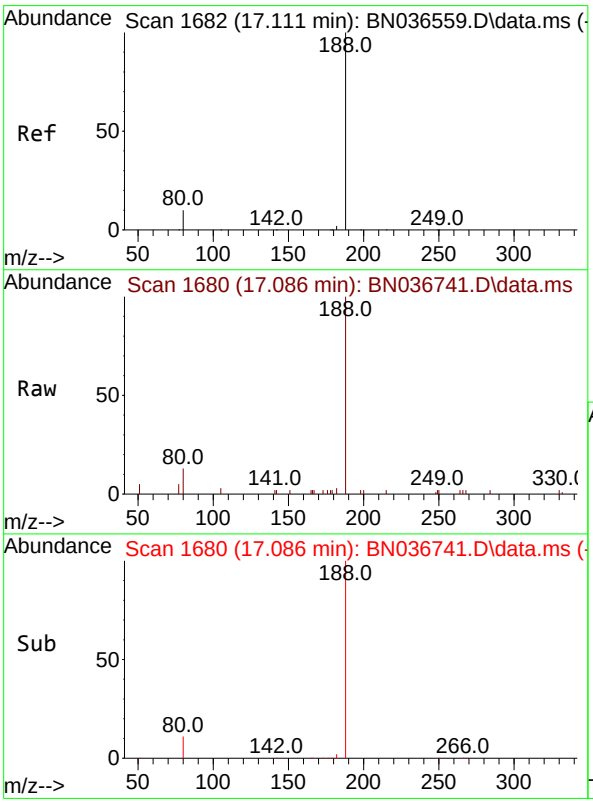
#15
2-Fluorobiphenyl
Concen: 0.336 ng
RT: 12.963 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036741.D
Acq: 27 Mar 2025 17:26

Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20250320

Tgt Ion:172 Resp: 4021

Ion	Ratio	Lower	Upper
172	100		
171	37.8	29.5	44.3
170	25.5	20.2	30.4

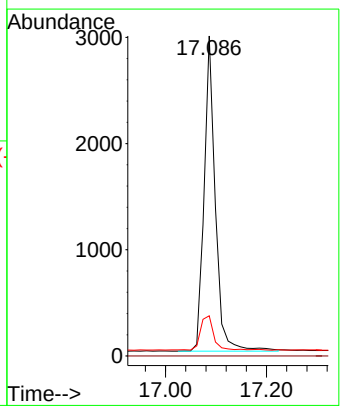


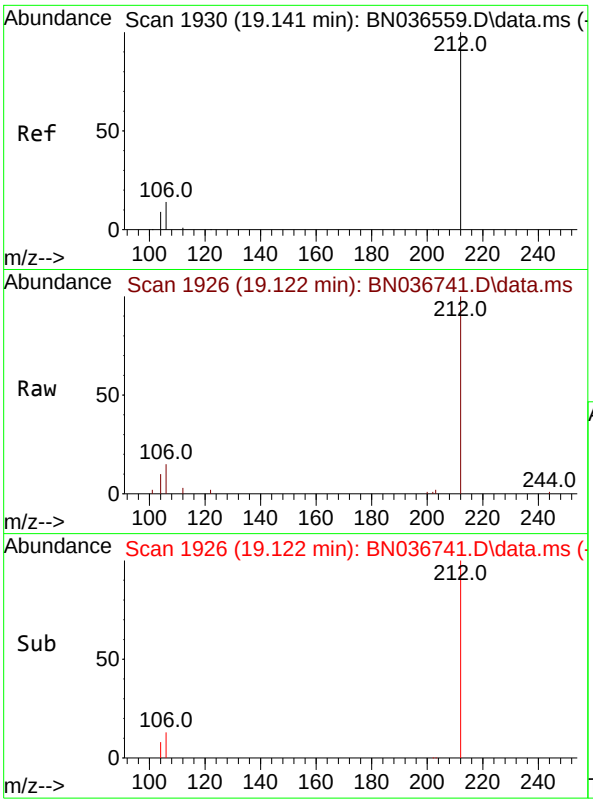


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1680
Delta R.T. -0.025 min
Lab File: BN036741.D
Acq: 27 Mar 2025 17:26

Tgt Ion:188 Resp: 4583

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.5	8.8	13.2



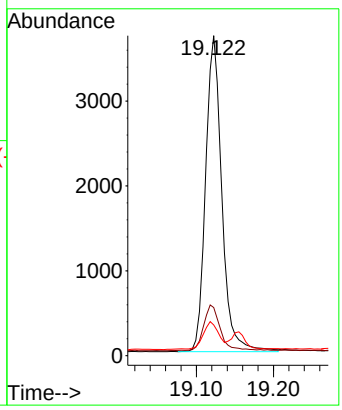


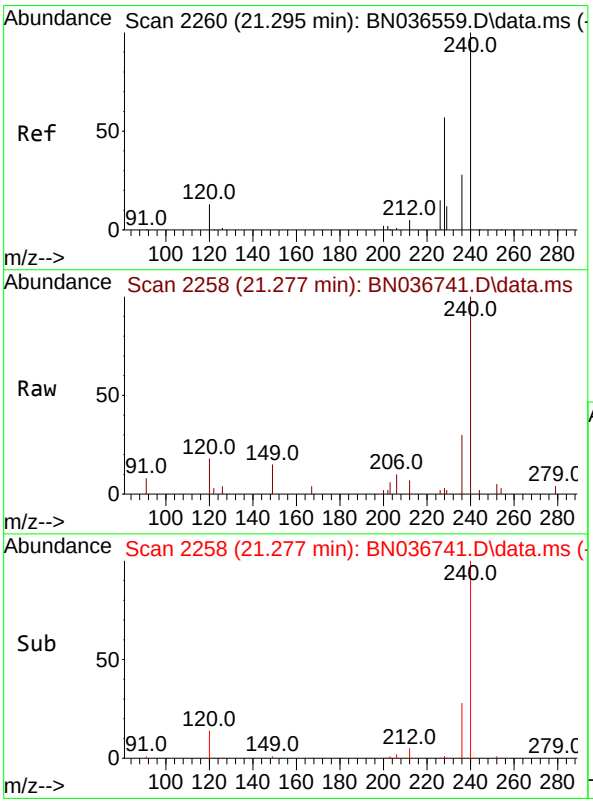
#27
Fluoranthene-d10
Concen: 0.463 ng
RT: 19.122 min Scan# 1
Delta R.T. -0.018 min
Lab File: BN036741.D
Acq: 27 Mar 2025 17:26

Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20250320

Tgt Ion:212 Resp: 5441

Ion	Ratio	Lower	Upper
212	100		
106	15.2	11.8	17.6
104	8.7	7.3	10.9

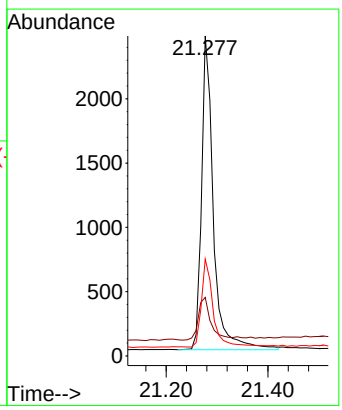


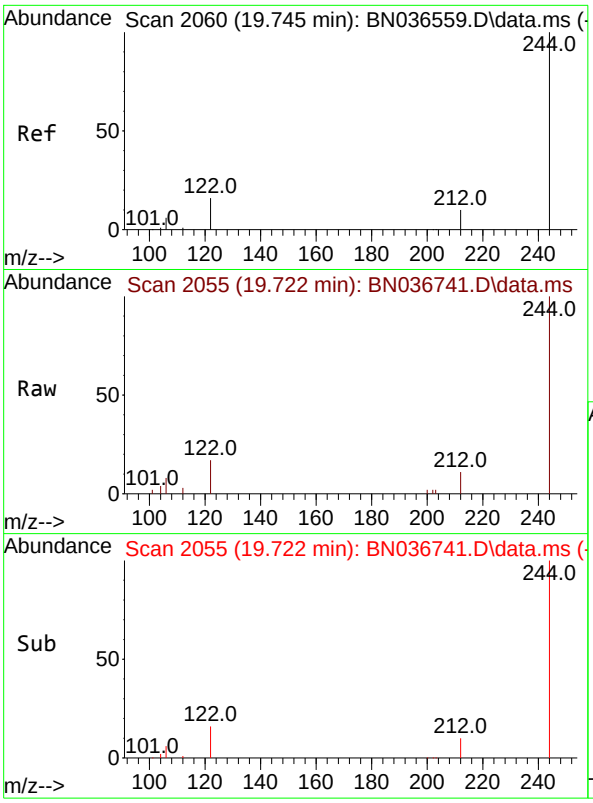


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.018 min
Lab File: BN036741.D
Acq: 27 Mar 2025 17:26

Tgt Ion:240 Resp: 3932

Ion	Ratio	Lower	Upper
240	100		
120	18.3	14.6	22.0
236	30.3	24.1	36.1



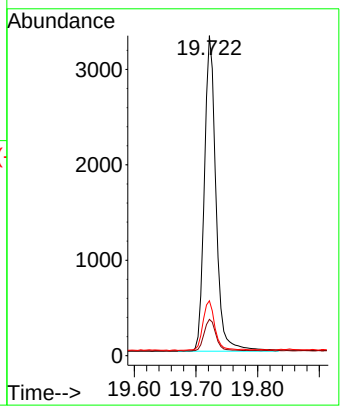


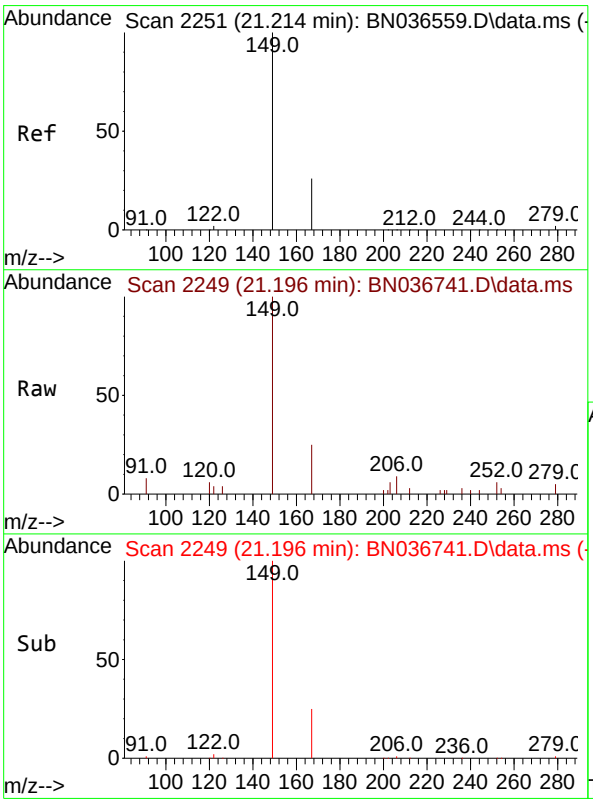
#31
Terphenyl-d14
Concen: 0.459 ng
RT: 19.722 min Scan# 2
Delta R.T. -0.023 min
Lab File: BN036741.D
Acq: 27 Mar 2025 17:26

Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20250320

Tgt Ion:244 Resp: 4322

Ion	Ratio	Lower	Upper
244	100		
212	11.3	9.6	14.4
122	17.1	13.9	20.9

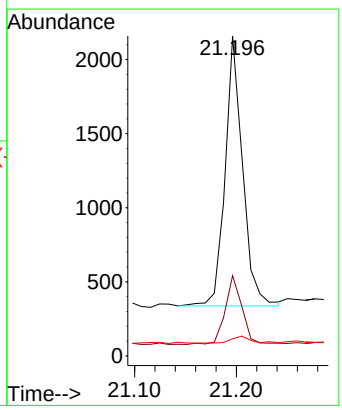


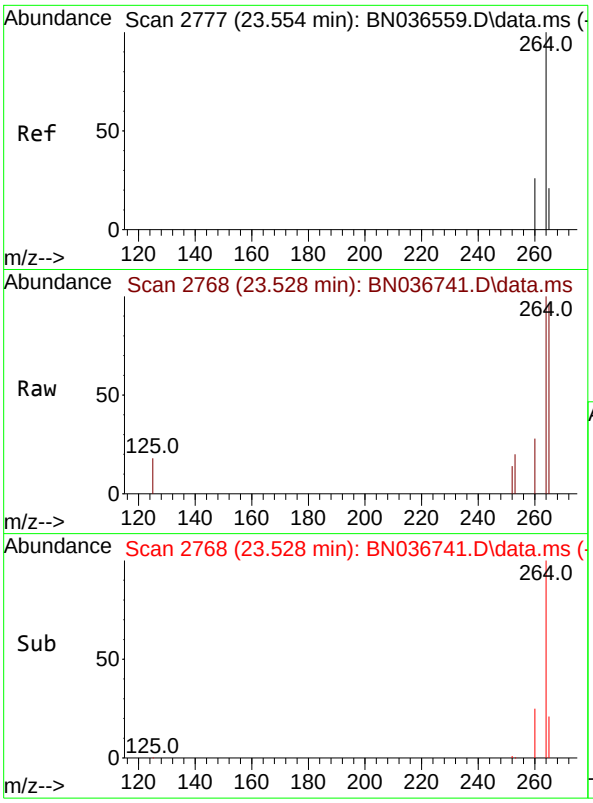


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.223 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036741.D
Acq: 27 Mar 2025 17:26

Tgt Ion:149 Resp: 2170

Ion	Ratio	Lower	Upper
149	100		
167	24.7	20.7	31.1
279	2.9	3.6	5.4#



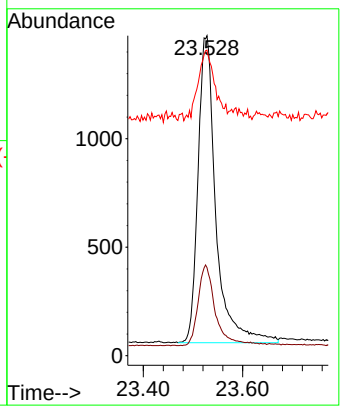


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.528 min Scan# 2
Delta R.T. -0.026 min
Lab File: BN036741.D
Acq: 27 Mar 2025 17:26

Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20250320

Tgt Ion:264 Resp: 3540

Ion	Ratio	Lower	Upper
264	100		
260	27.5	22.6	33.8
265	95.5	88.1	132.1



CALIBRATION SUMMARY

Response Factor Report BNA_N

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN031025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Mon Mar 10 16:06:28 2025
Response Via : Initial Calibration

Calibration Files
0.1 =BN036557.D 0.2 =BN036558.D 0.4 =BN036559.D 0.8 =BN036560.D 1.6 =BN036561.D 3.2 =BN036562.D 5.0 =BN036563.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	0.434	0.439	0.498	0.451	0.440	0.445	0.399	0.444	6.60
3)		n-Nitrosodimet...	1.112	0.874	0.935	0.841	0.850	0.883	0.789	0.898	11.64
4)	S	2-Fluorophenol	0.931	0.908	0.987	0.878	0.914	0.996	0.911	0.932	4.67
5)	S	Phenol-d6	1.243	1.057	1.128	1.067	1.133	1.254	1.180	1.152	6.79
6)		bis(2-Chloroet...	1.426	1.150	1.183	1.129	1.132	1.210	1.104	1.190	9.22
7)	I	Naphthalene-d8	----------ISTD----------								
8)	S	Nitrobenzene-d5	0.572	0.396	0.415	0.401	0.402	0.450	0.411	0.435	14.47
9)		Naphthalene	1.371	1.125	1.206	1.111	1.108	1.222	1.094	1.177	8.45
10)		Hexachlorobuta...	0.296	0.283	0.294	0.267	0.261	0.286	0.251	0.277	6.24
11)	SURR	2-Methylnaphth...	0.656	0.549	0.606	0.562	0.577	0.633	0.581	0.595	6.55
12)		2-Methylnaphth...	0.810	0.696	0.765	0.703	0.734	0.802	0.731	0.749	6.03
13)	I	Acenaphthene-d10	----------ISTD----------								
14)	S	2,4,6-Tribromo...	0.181	0.160	0.187	0.169	0.188	0.197	0.188	0.182	7.04
15)	S	2-Fluorobiphenyl	2.208	1.982	2.398	2.350	2.364	2.566	2.419	2.327	7.96
16)		Acenaphthylene	1.882	1.756	1.938	1.794	1.834	2.074	1.935	1.888	5.66
17)		Acenaphthene	1.257	1.159	1.281	1.171	1.199	1.339	1.243	1.236	5.17
18)		Fluorene	1.629	1.600	1.764	1.609	1.670	1.778	1.650	1.672	4.32
19)	I	Phenanthrene-d10	----------ISTD----------								
20)		4,6-Dinitro-2-...		0.057	0.077	0.075	0.088	0.110	0.111	0.086	24.66
21)		4-Bromophenyl-...	0.243	0.227	0.274	0.238	0.241	0.278	0.253	0.251	7.53
22)		Hexachlorobenzene	0.306	0.288	0.336	0.295	0.283	0.322	0.289	0.303	6.58
23)		Atrazine	0.193	0.191	0.213	0.192	0.200	0.216	0.200	0.201	5.08
24)		Pentachlorophenol	0.140	0.116	0.137	0.122	0.135	0.161	0.155	0.138	11.76
25)		Phenanthrene	1.190	1.111	1.297	1.141	1.165	1.300	1.195	1.200	6.09
26)		Anthracene	1.026	0.971	1.147	1.033	1.075	1.215	1.112	1.083	7.60
27)	SURR	Fluoranthene-d10	1.037	0.955	1.116	0.956	1.025	1.087	1.000	1.025	5.98
28)		Fluoranthene	1.341	1.243	1.452	1.272	1.364	1.447	1.316	1.348	5.95
29)	I	Chrysene-d12	----------ISTD----------								
30)		Pyrene	1.945	2.005	2.131	1.910	1.870	1.992	1.837	1.956	5.04
31)	S	Terphenyl-d14	0.962	0.965	1.028	0.924	0.915	0.987	0.926	0.958	4.23
32)		Benzo(a)anthra...	1.389	1.315	1.437	1.304	1.347	1.528	1.415	1.391	5.63
33)		Chrysene	1.486	1.509	1.610	1.507	1.462	1.616	1.448	1.520	4.44
34)		Bis(2-ethylhex...	1.196	1.100	1.044	0.865	0.946	0.912	0.870	0.990	12.74
35)	I	Perylene-d12	----------ISTD----------								

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN031025.M

36)		Indeno(1,2,3-c...	1.160	1.316	1.546	1.404	1.417	1.693	1.571	1.444	12.27
37)		Benzo(b)fluora...	1.311	1.360	1.547	1.402	1.477	1.595	1.498	1.456	7.04
38)		Benzo(k)fluora...	1.504	1.397	1.620	1.481	1.521	1.635	1.534	1.527	5.34
39)	C	Benzo(a)pyrene	1.090	1.152	1.303	1.195	1.223	1.350	1.268	1.226	7.29
40)		Dibenzo(a,h)an...	0.893	0.981	1.163	1.126	1.102	1.351	1.252	1.124	13.76
41)		Benzo(g,h,i)pe...	1.138	1.213	1.382	1.250	1.233	1.449	1.334	1.286	8.36

(#) = Out of Range

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036557.D
Acq On : 10 Mar 2025 11:42
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 10 16:00:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:54:23 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.724	152	2755	0.400	ng		0.00
7) Naphthalene-d8	10.509	136	6575	0.400	ng		0.00
13) Acenaphthene-d10	14.366	164	3958	0.400	ng		0.00
19) Phenanthrene-d10	17.111	188	8269	0.400	ng		0.00
29) Chrysene-d12	21.295	240	5886	0.400	ng		0.00
35) Perylene-d12	23.554	264	5207	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.312	112	641	0.100	ng		0.00
5) Phenol-d6	6.901	99	856	0.108	ng		0.00
8) Nitrobenzene-d5	8.875	82	940	0.131	ng		0.00
11) 2-Methylnaphthalene-d10	12.111	152	1079	0.110	ng		0.00
14) 2,4,6-Tribromophenol	15.858	330	179	0.100	ng		0.00
15) 2-Fluorobiphenyl	12.993	172	2185	0.095	ng		0.00
27) Fluoranthene-d10	19.141	212	2144	0.101	ng		0.00
31) Terphenyl-d14	19.745	244	1416	0.100	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.247	88	299m	0.098	ng		
3) n-Nitrosodimethylamine	3.557	42	766	0.124	ng	#	95
6) bis(2-Chloroethyl)ether	7.154	93	982	0.120	ng		98
9) Naphthalene	10.562	128	2254	0.117	ng	#	94
10) Hexachlorobutadiene	10.850	225	486	0.107	ng	#	100
12) 2-Methylnaphthalene	12.187	142	1331	0.108	ng		96
16) Acenaphthylene	14.078	152	1862	0.100	ng		99
17) Acenaphthene	14.430	154	1244	0.102	ng		99
18) Fluorene	15.414	166	1612	0.097	ng		99
21) 4-Bromophenyl-phenylether	16.304	248	502	0.097	ng		95
22) Hexachlorobenzene	16.416	284	632	0.101	ng		98
23) Atrazine	16.578	200	400	0.096	ng	#	90
24) Pentachlorophenol	16.776	266	290	0.102	ng		98
25) Phenanthrene	17.148	178	2459	0.099	ng		99
26) Anthracene	17.248	178	2121	0.095	ng		100
28) Fluoranthene	19.174	202	2772	0.099	ng		97
30) Pyrene	19.536	202	2862	0.099	ng		100
32) Benzo(a)anthracene	21.286	228	2044	0.100	ng		94
33) Chrysene	21.331	228	2187	0.098	ng		93
34) Bis(2-ethylhexyl)phtha...	21.214	149	1760	0.121	ng		96
36) Indeno(1,2,3-cd)pyrene	25.841	276	1510	0.080	ng		98
37) Benzo(b)fluoranthene	22.876	252	1707	0.090	ng	#	62
38) Benzo(k)fluoranthene	22.923	252	1958	0.098	ng	#	62
39) Benzo(a)pyrene	23.458	252	1419	0.089	ng	#	51
40) Dibenzo(a,h)anthracene	25.861	278	1163	0.079	ng	#	59
41) Benzo(g,h,i)perylene	26.539	276	1482	0.089	ng	#	84

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

ICAL Form

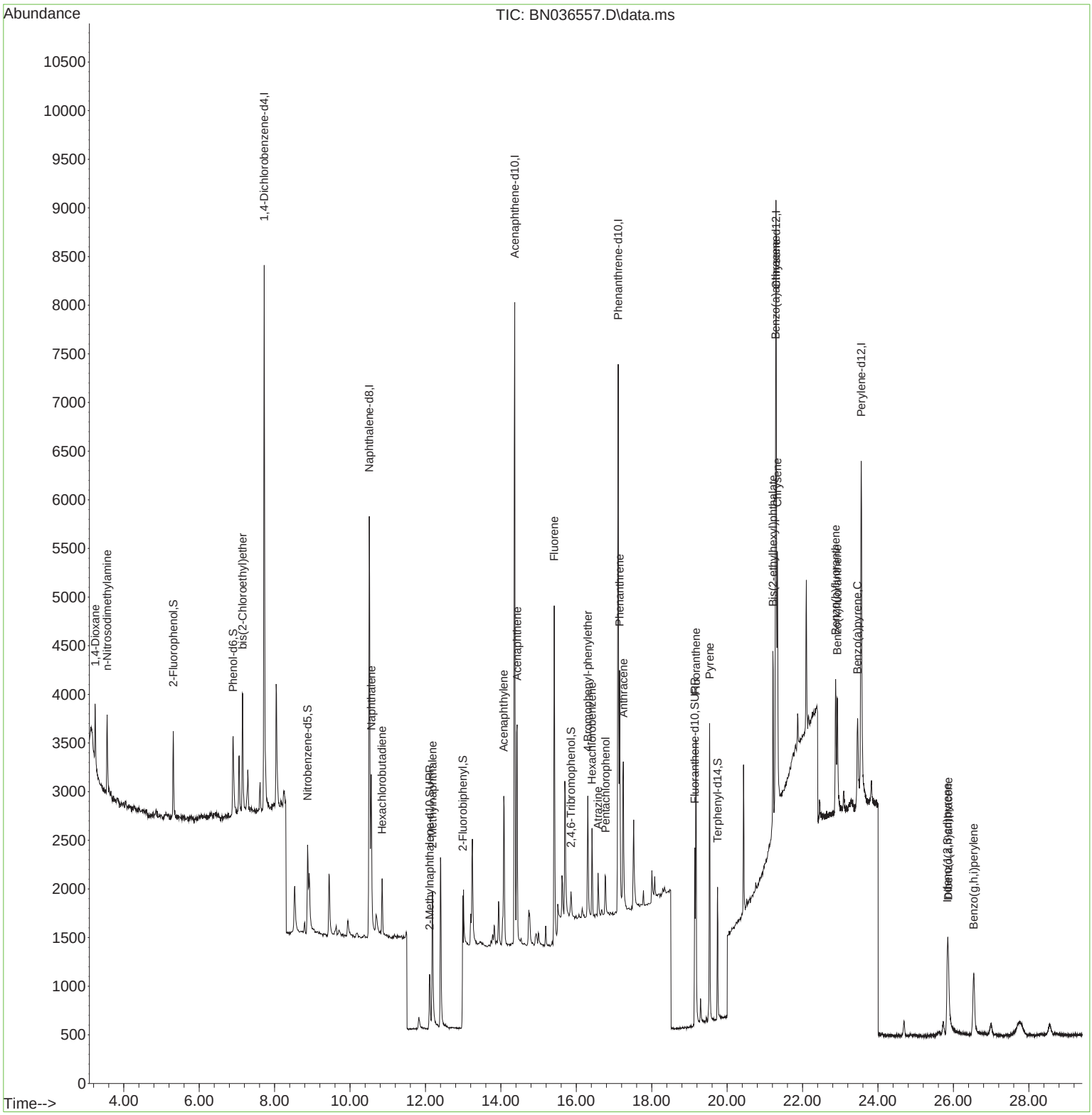
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036557.D
Acq On : 10 Mar 2025 11:42
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

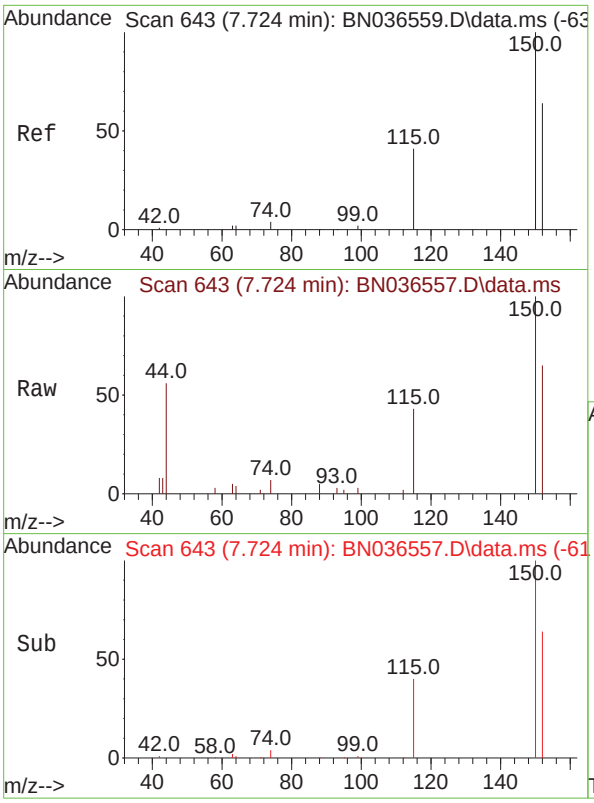
Quant Time: Mar 10 16:00:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:54:23 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

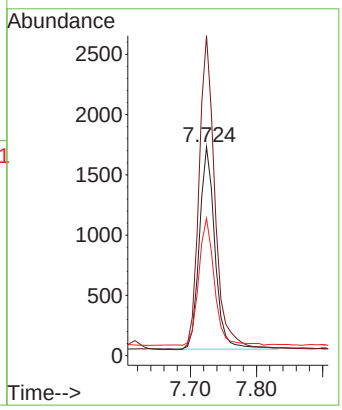




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:152 Resp: 275

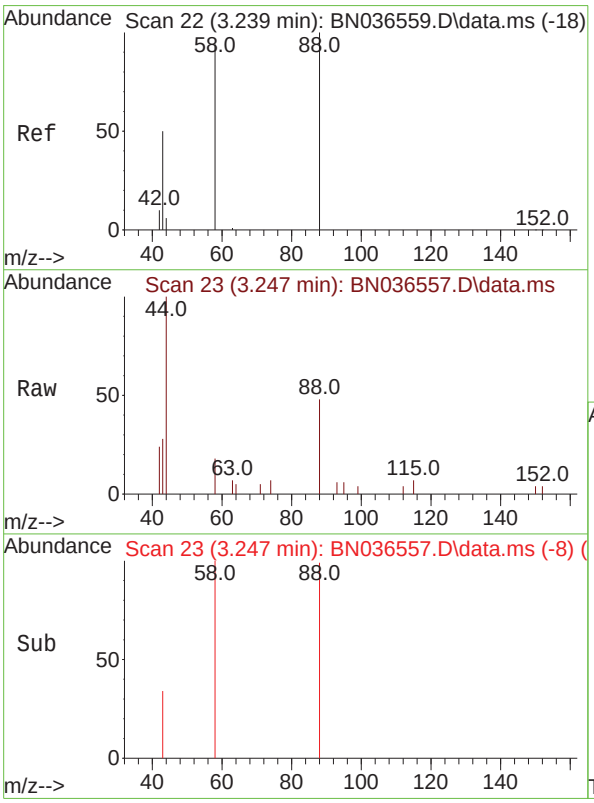
Ion	Ratio	Lower	Upper
152	100		
150	153.3	123.7	185.5
115	65.8	54.3	81.5



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

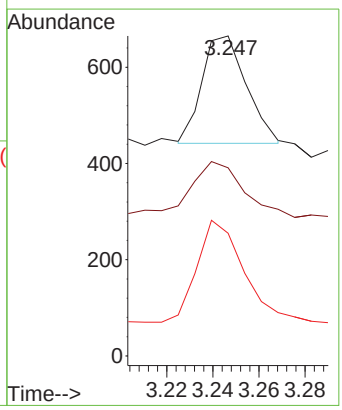
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

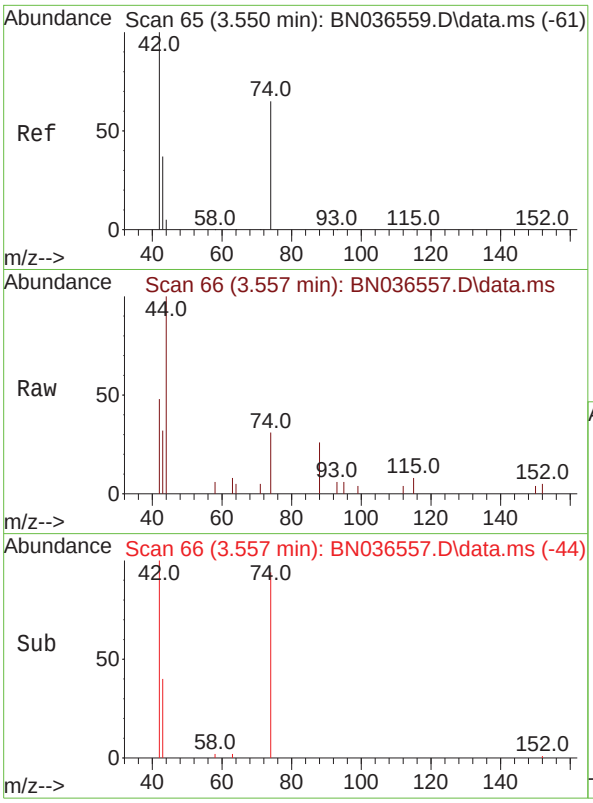


#2
1,4-Dioxane
Concen: 0.098 ng m
RT: 3.247 min Scan# 23
Delta R.T. 0.007 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion: 88 Resp: 299

Ion	Ratio	Lower	Upper
88	100		
43	94.6	37.8	56.8#
58	102.3	67.4	101.2#

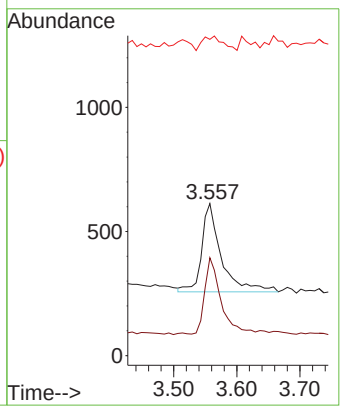




#3
n-Nitrosodimethylamine
Concen: 0.124 ng
RT: 3.557 min Scan# 6
Delta R.T. 0.007 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion: 42 Resp: 76

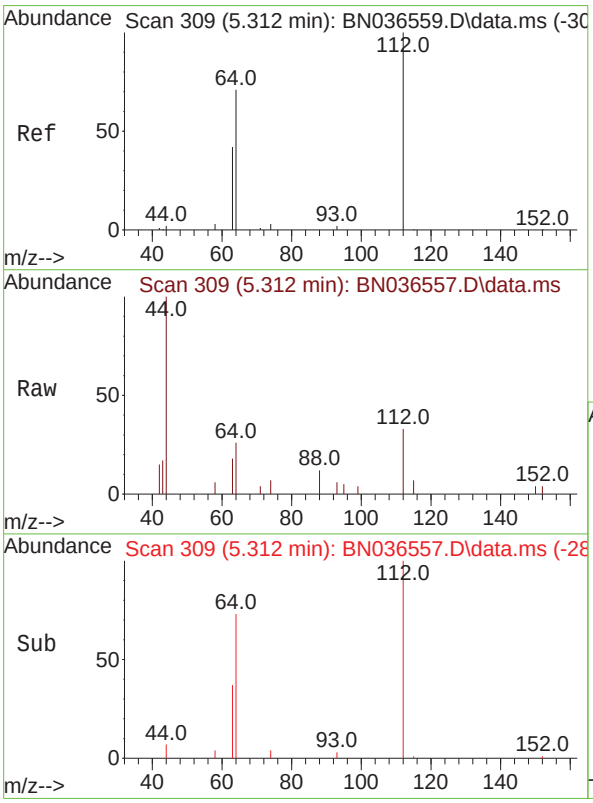
Ion	Ratio	Lower	Upper
42	100		
74	73.0	60.6	90.8
44	16.6	6.3	9.5



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

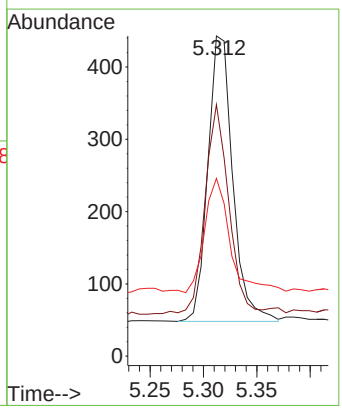
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

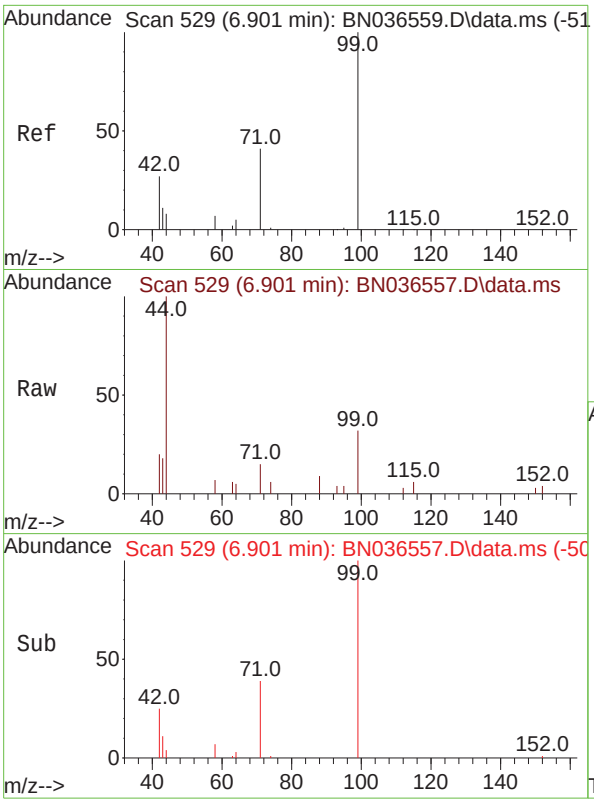


#4
2-Fluorophenol
Concen: 0.100 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:112 Resp: 641

Ion	Ratio	Lower	Upper
112	100		
64	70.4	53.1	79.7
63	40.9	31.8	47.8

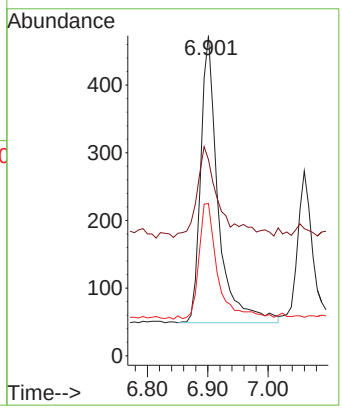




#5
Phenol-d6
Concen: 0.108 ng
RT: 6.901 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion: 99 Resp: 85

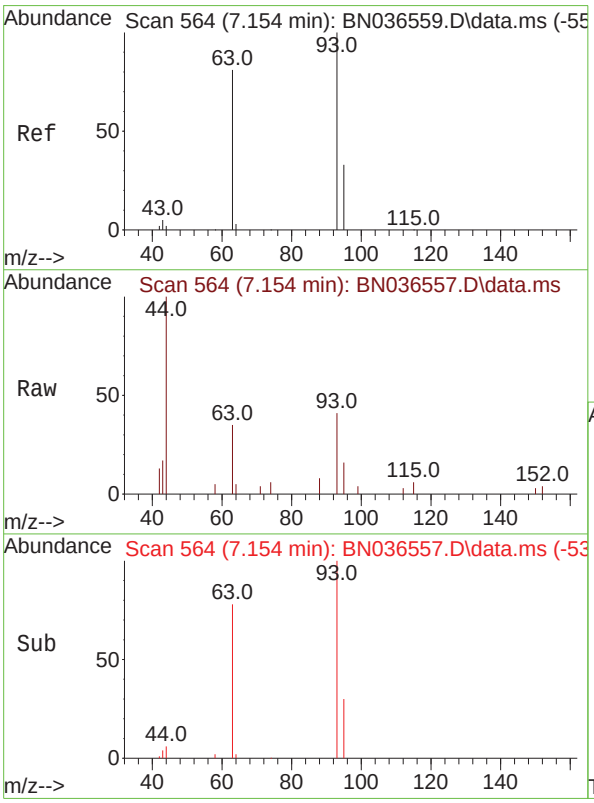
Ion	Ratio	Lower	Upper
99	100		
42	39.8	26.5	39.7#
71	42.8	34.1	51.1



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

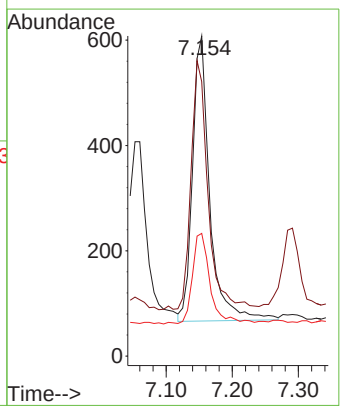
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

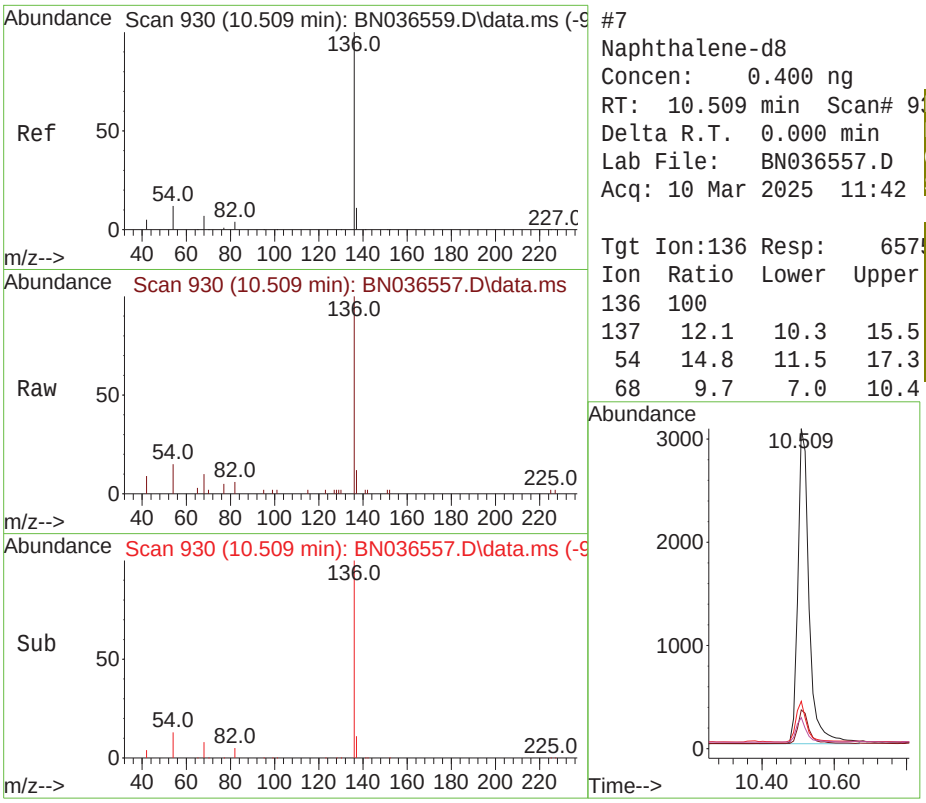


#6
bis(2-Chloroethyl)ether
Concen: 0.120 ng
RT: 7.154 min Scan# 564
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion: 93 Resp: 982

Ion	Ratio	Lower	Upper
93	100		
63	86.7	67.7	101.5
95	33.0	25.6	38.4





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

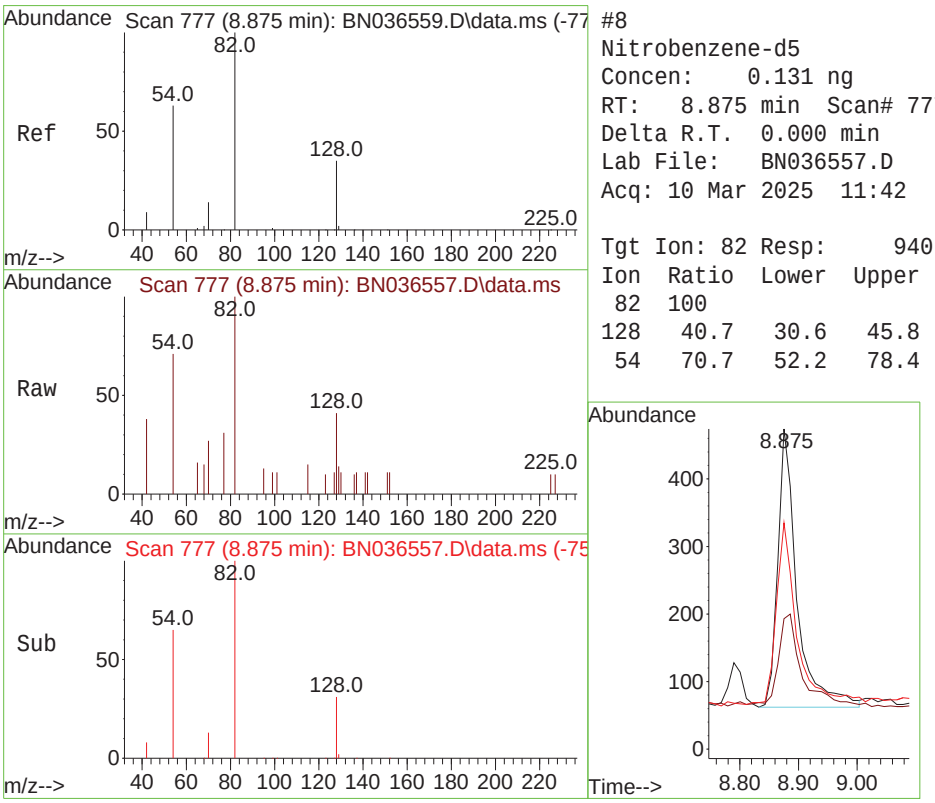
Tgt Ion:136 Resp: 657

Ion	Ratio	Lower	Upper
136	100		
137	12.1	10.3	15.5
54	14.8	11.5	17.3
68	9.7	7.0	10.4

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

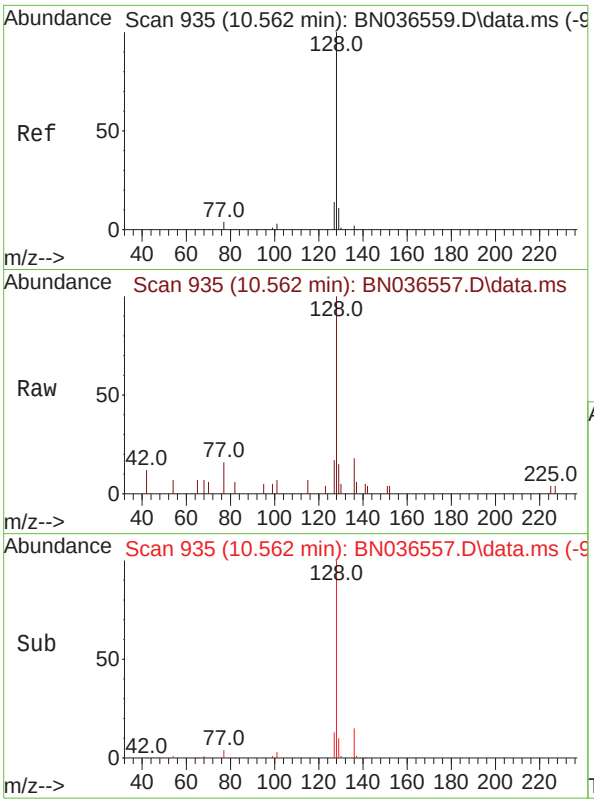
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#8
Nitrobenzene-d5
Concen: 0.131 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion: 82 Resp: 940

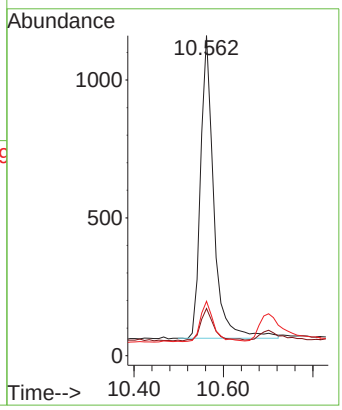
Ion	Ratio	Lower	Upper
82	100		
128	40.7	30.6	45.8
54	70.7	52.2	78.4



#9
Naphthalene
Concen: 0.117 ng
RT: 10.562 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:128 Resp: 225

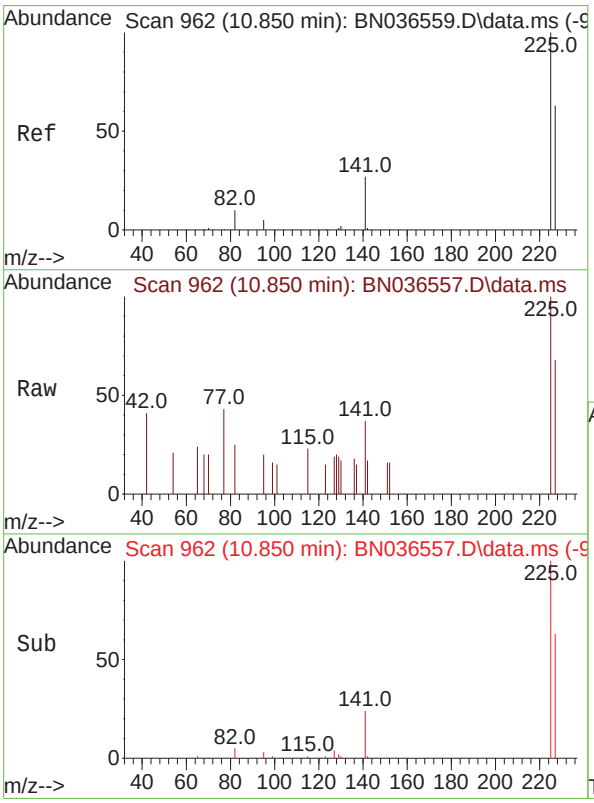
Ion	Ratio	Lower	Upper
128	100		
129	14.7	9.8	14.6#
127	17.0	11.8	17.8



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

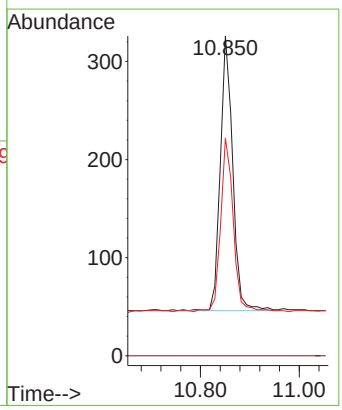
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

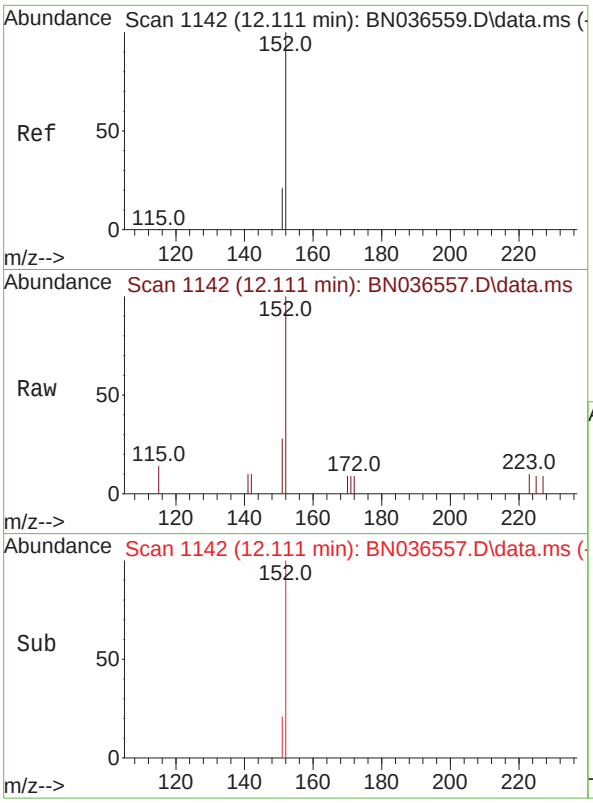


#10
Hexachlorobutadiene
Concen: 0.107 ng
RT: 10.850 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:225 Resp: 486

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.8	51.8	77.8





#11
2-Methylnaphthalene-d10
Concen: 0.110 ng
RT: 12.111 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:152 Resp: 107

Ion	Ratio	Lower	Upper
152	100		
151	19.5	17.0	25.6

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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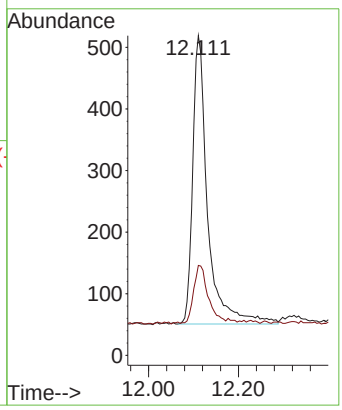
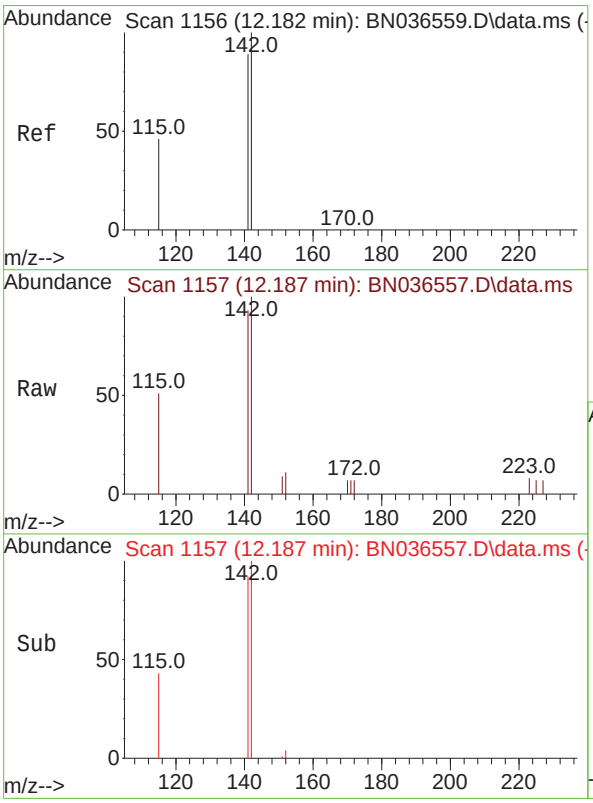
Supervised By :Jagrut Upadhyay 03/11/2025

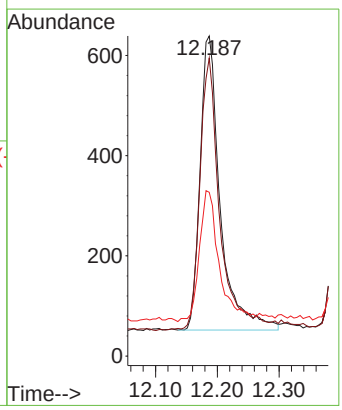


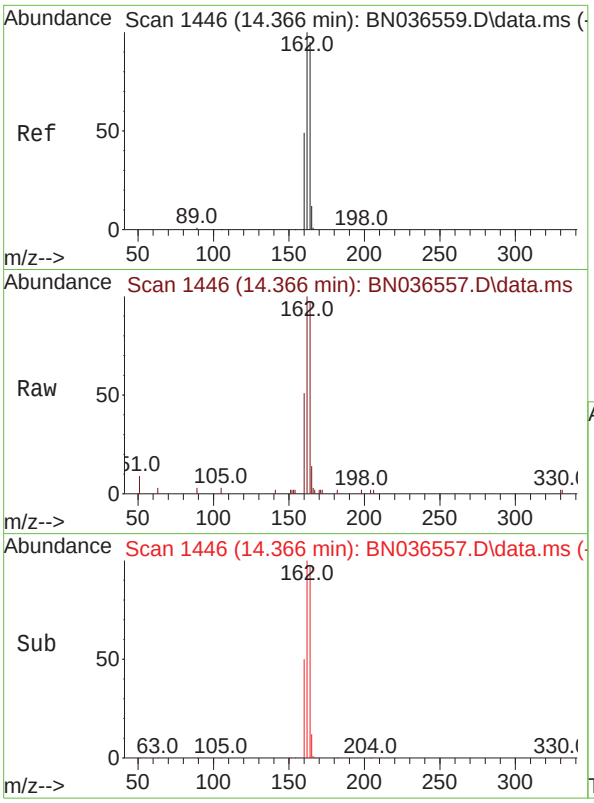


#12
2-Methylnaphthalene
Concen: 0.108 ng
RT: 12.187 min Scan# 1157
Delta R.T. 0.005 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:142 Resp: 1331

Ion	Ratio	Lower	Upper
142	100		
141	93.1	71.7	107.5
115	51.2	38.3	57.5





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:164 Resp: 395

Ion	Ratio	Lower	Upper
164	100		
162	103.3	84.2	126.2
160	53.0	42.2	63.2

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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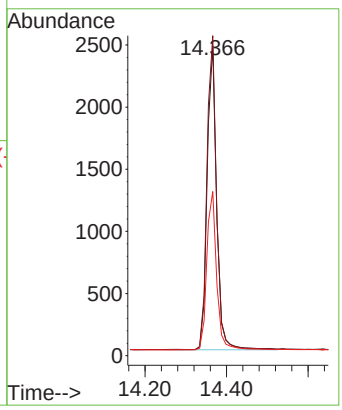
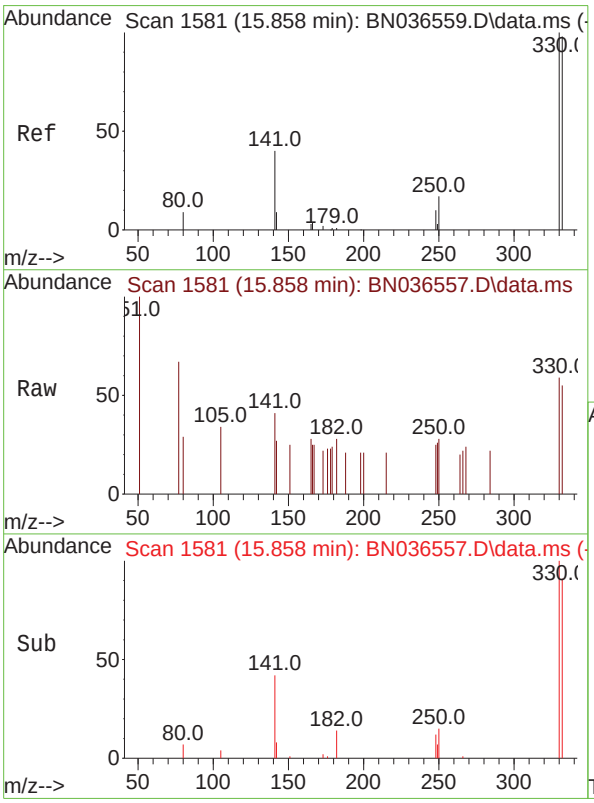
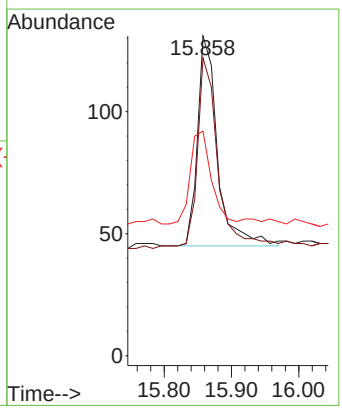


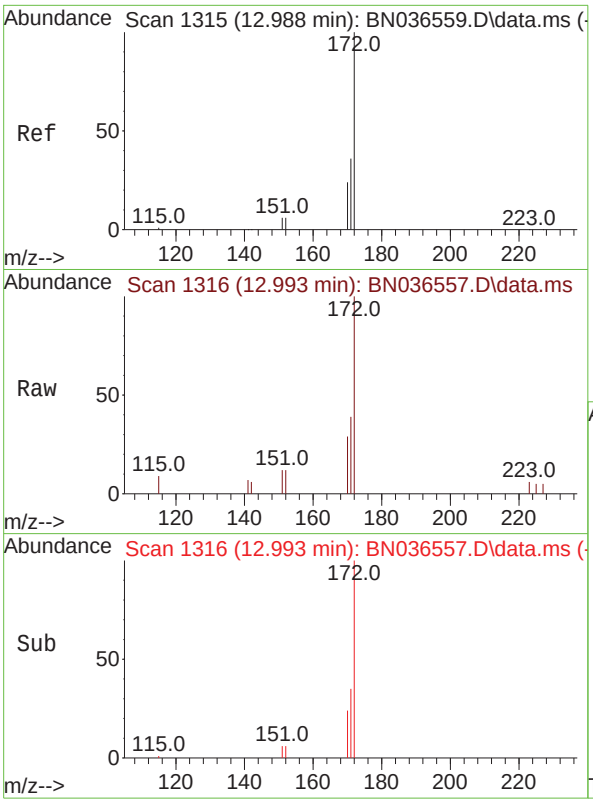


#14
2,4,6-Tribromophenol
Concen: 0.100 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:330 Resp: 179

Ion	Ratio	Lower	Upper
330	100		
332	96.1	75.2	112.8
141	46.4	43.4	65.2

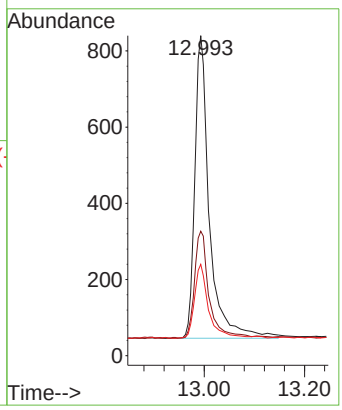




#15
2-Fluorobiphenyl
Concen: 0.095 ng
RT: 12.993 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:172 Resp: 218

Ion	Ratio	Lower	Upper
172	100		
171	38.9	29.5	44.3
170	28.6	20.2	30.4



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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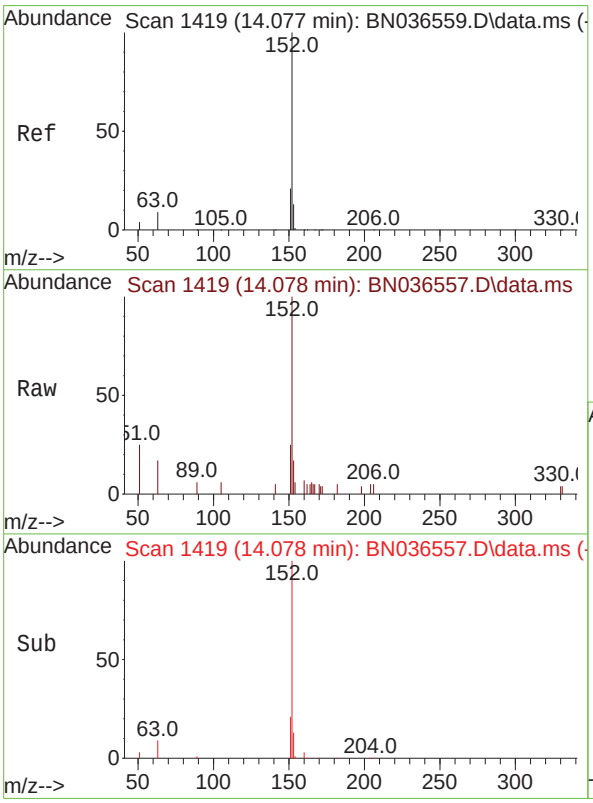
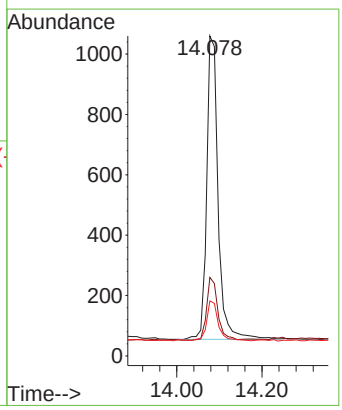
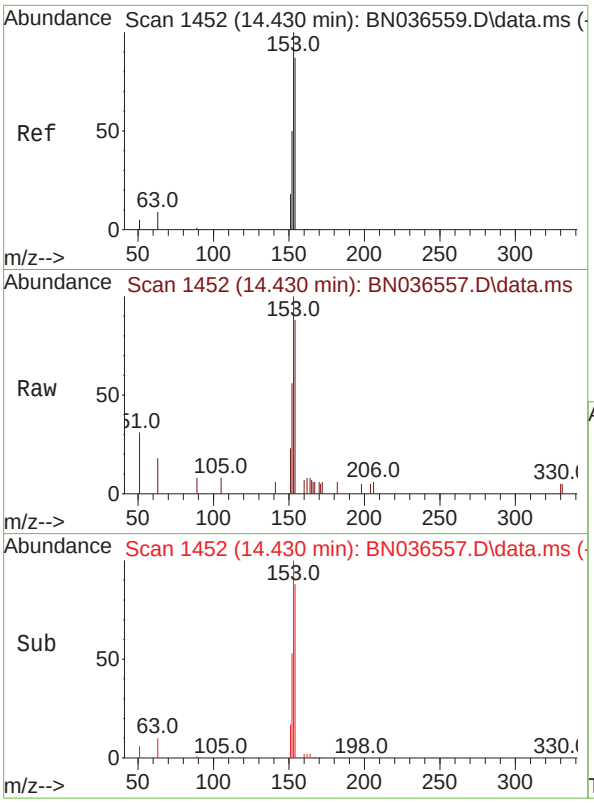


#16
Acenaphthylene
Concen: 0.100 ng
RT: 14.078 min Scan# 1419
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:152 Resp: 1862

Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.2	24.4
153	14.1	10.6	15.8

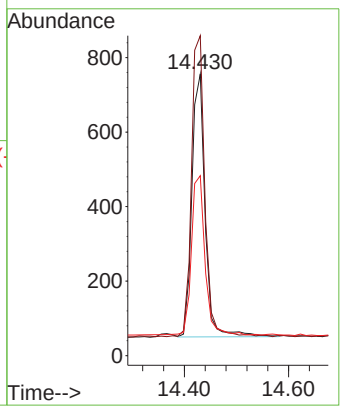




#17
Acenaphthene
Concen: 0.102 ng
RT: 14.430 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:154 Resp: 124

Ion	Ratio	Lower	Upper
154	100		
153	115.9	94.1	141.1
152	62.5	49.8	74.6



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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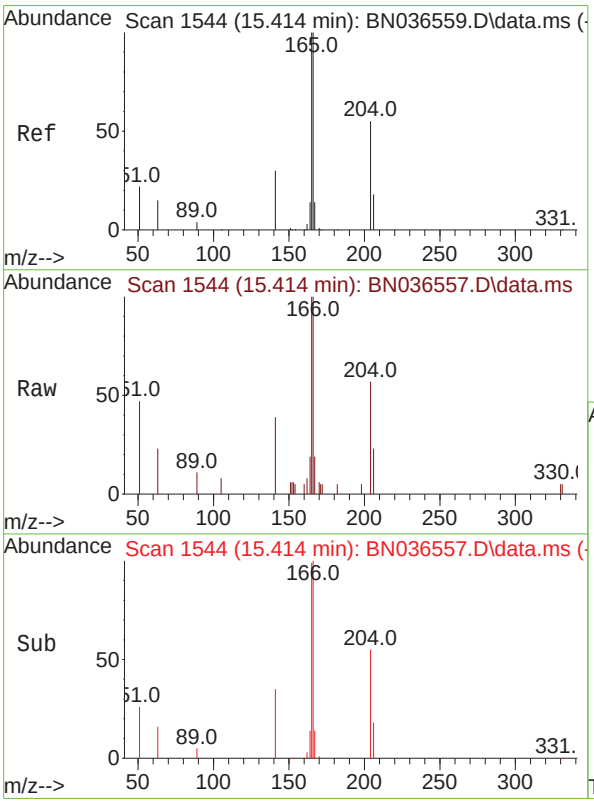
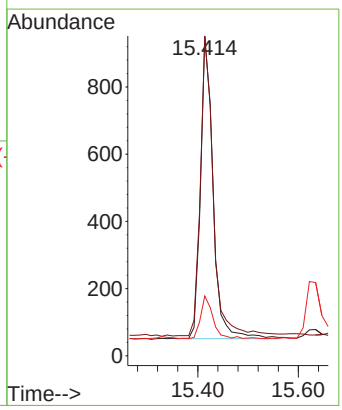
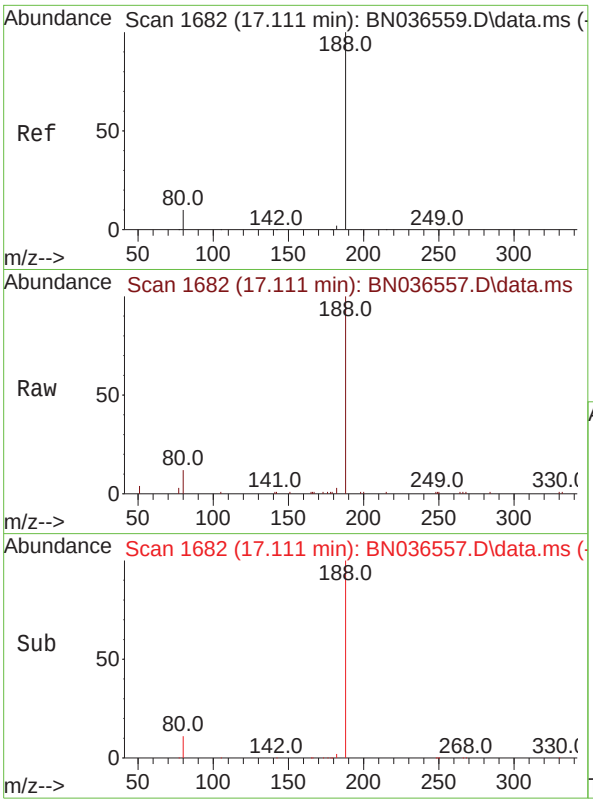


#18
Fluorene
Concen: 0.097 ng
RT: 15.414 min Scan# 1544
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:166 Resp: 1612

Ion	Ratio	Lower	Upper
166	100		
165	100.9	79.8	119.8
167	13.9	10.6	15.8

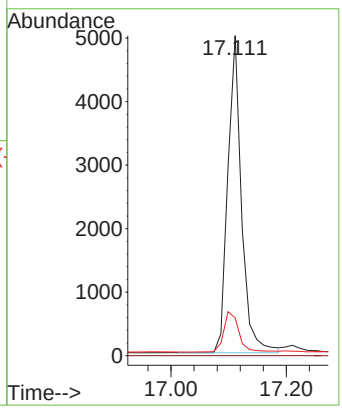




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:188 Resp: 826

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.8	8.8	13.2



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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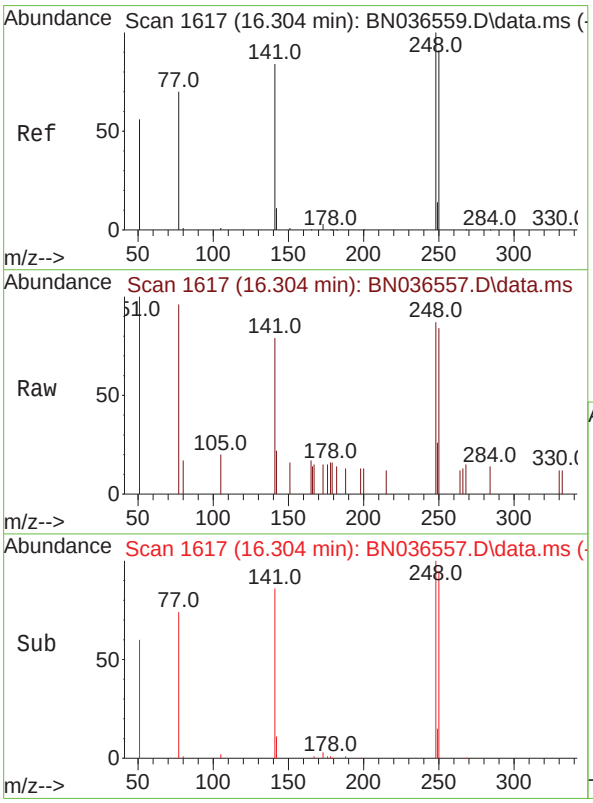
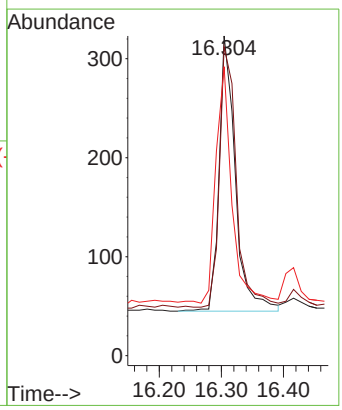
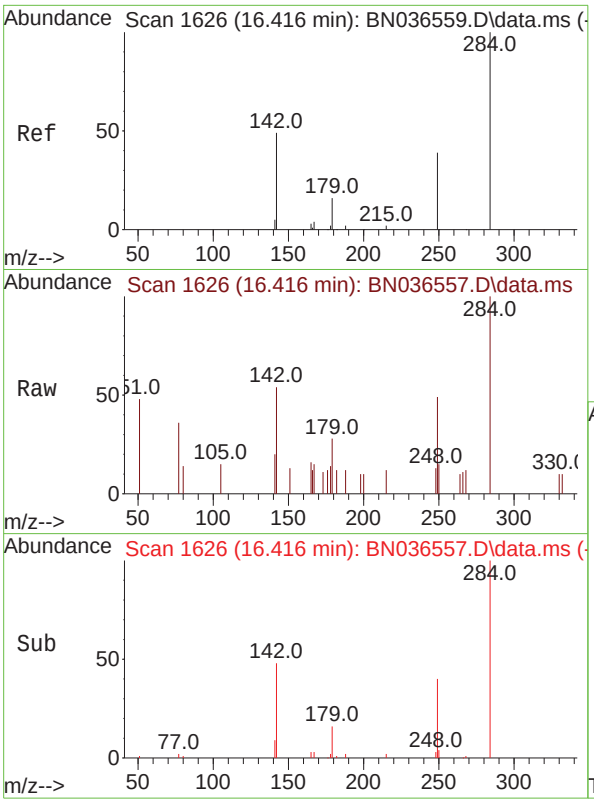


#21
4-Bromophenyl-phenylether
Concen: 0.097 ng
RT: 16.304 min Scan# 1617
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:248 Resp: 502

Ion	Ratio	Lower	Upper
248	100		
250	96.6	73.0	109.6
141	90.4	68.6	103.0

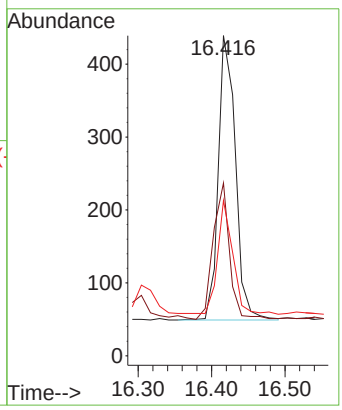




#22
Hexachlorobenzene
Concen: 0.101 ng
RT: 16.416 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:284 Resp: 63

Ion	Ratio	Lower	Upper
284	100		
142	45.7	37.0	55.4
249	37.2	28.1	42.1



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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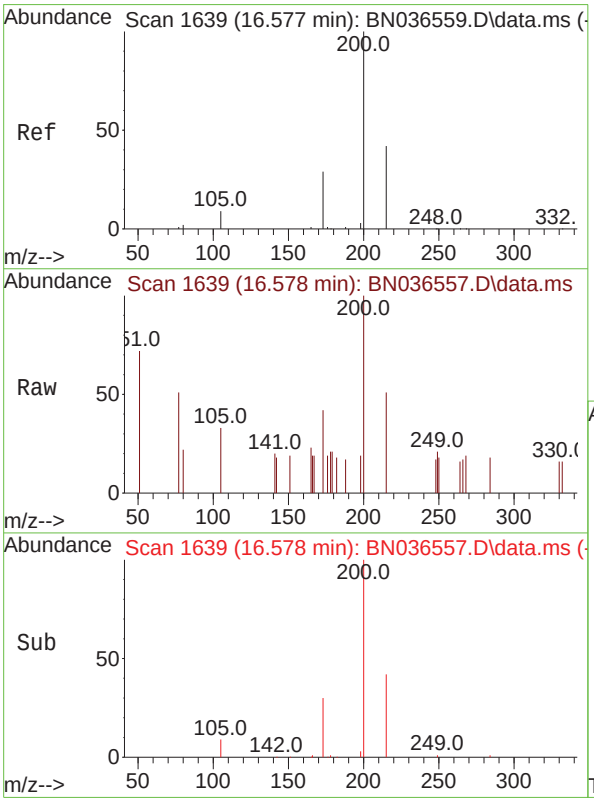
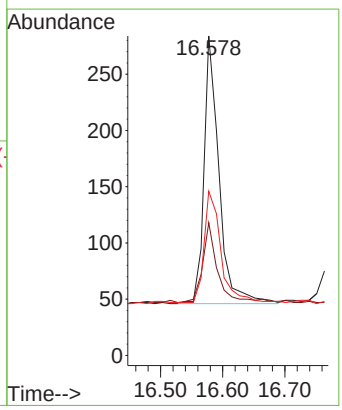
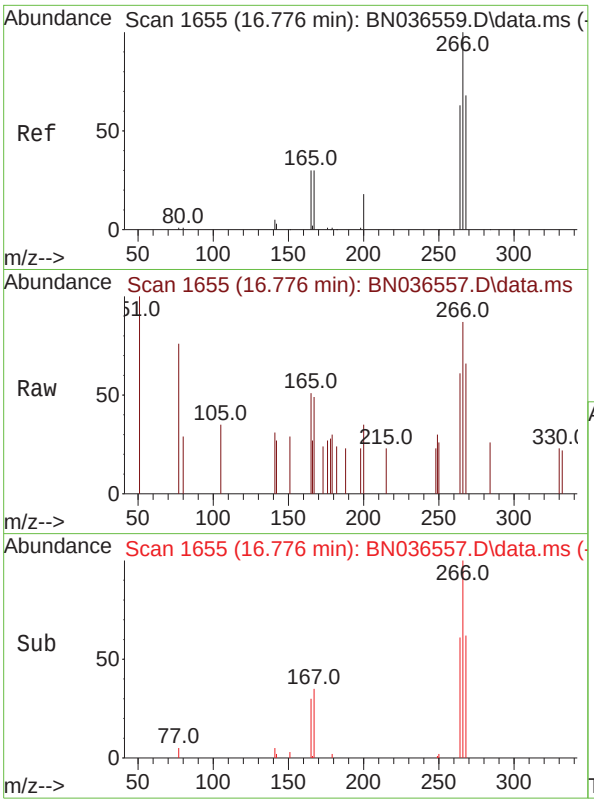


#23
Atrazine
Concen: 0.096 ng
RT: 16.578 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:200 Resp: 400

Ion	Ratio	Lower	Upper
200	100		
173	41.5	27.3	40.9#
215	51.4	36.8	55.2

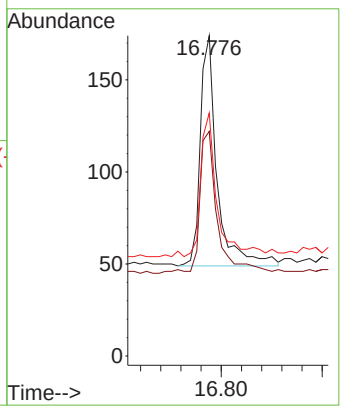




#24
Pentachlorophenol
Concen: 0.102 ng
RT: 16.776 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:266 Resp: 29

Ion	Ratio	Lower	Upper
266	100		
264	64.8	49.6	74.4
268	62.8	50.9	76.3



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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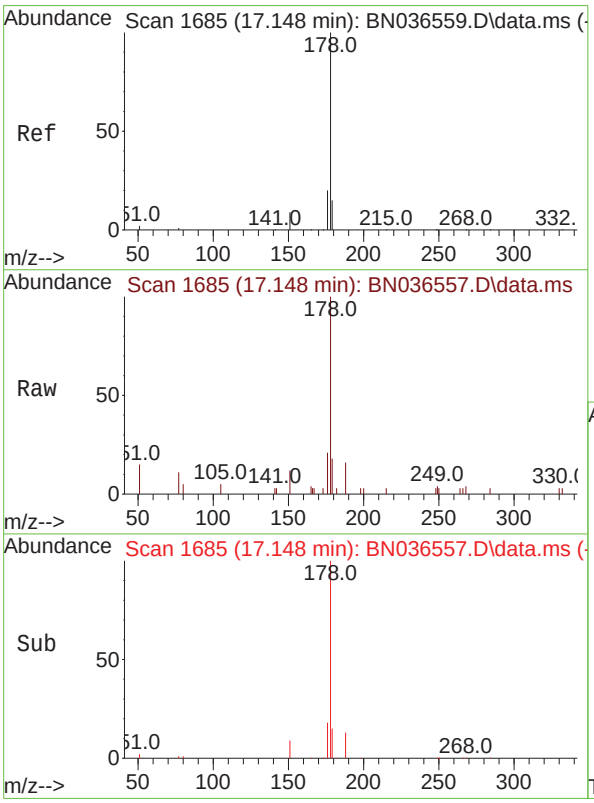
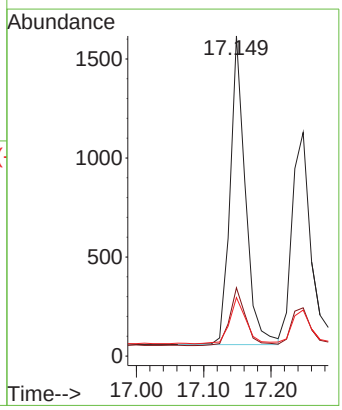
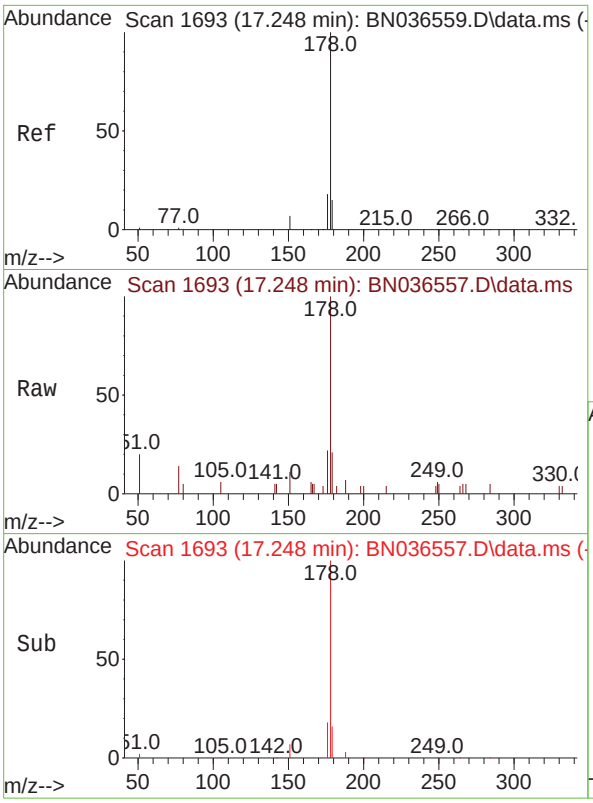


#25
Phenanthrene
Concen: 0.099 ng
RT: 17.148 min Scan# 1685
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:178 Resp: 2459

Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.9	23.9
179	16.1	12.2	18.4

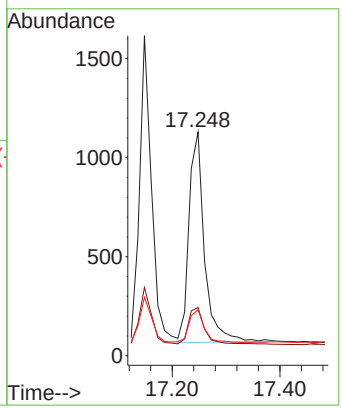




#26
Anthracene
Concen: 0.095 ng
RT: 17.248 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:178 Resp: 212

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.4	23.2
179	15.7	12.6	18.8



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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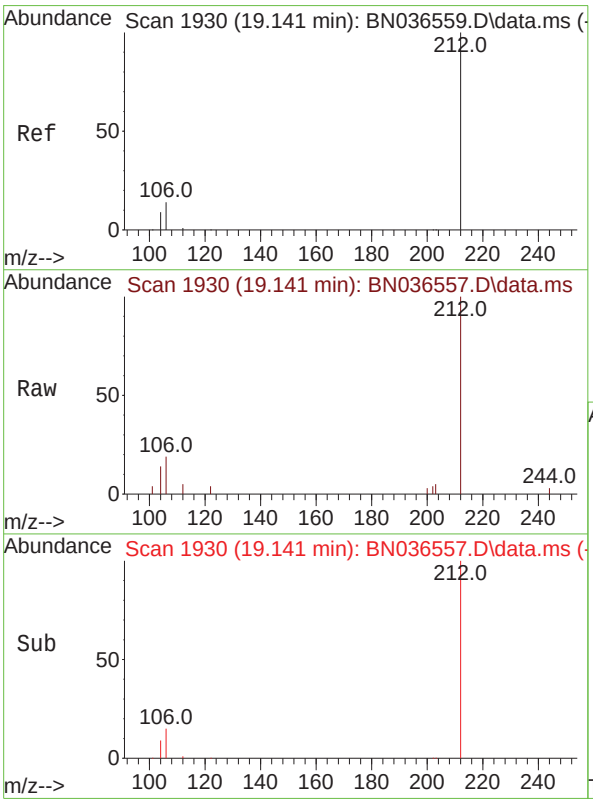
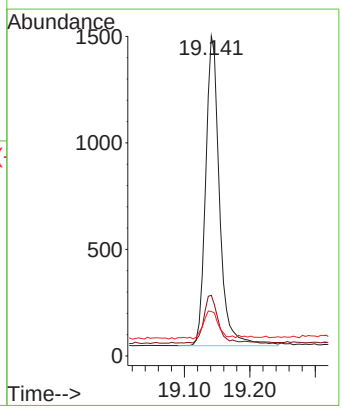
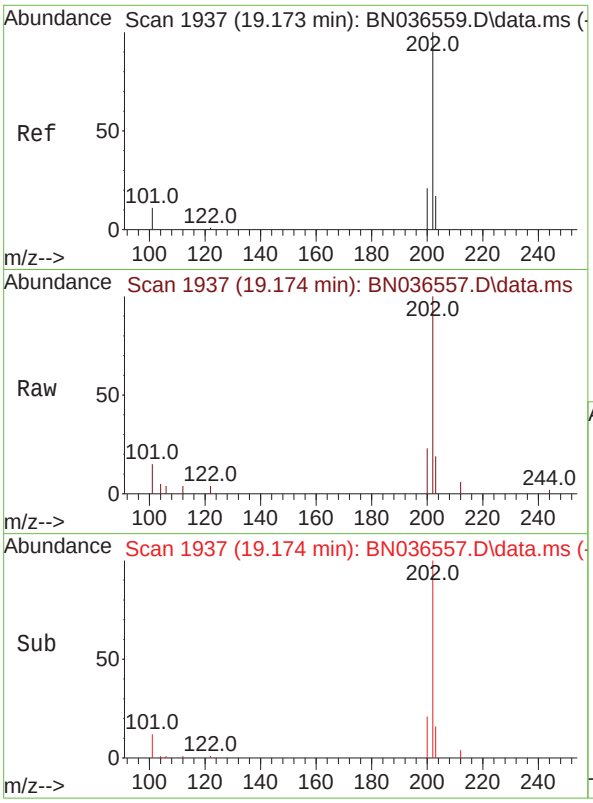


#27
Fluoranthene-d10
Concen: 0.101 ng
RT: 19.141 min Scan# 1930
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:212 Resp: 2144

Ion	Ratio	Lower	Upper
212	100		
106	15.5	11.8	17.6
104	9.7	7.3	10.9

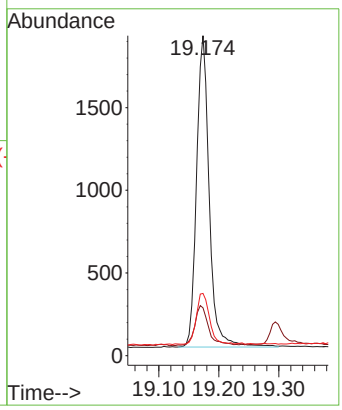




#28
Fluoranthene
Concen: 0.099 ng
RT: 19.174 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:202 Resp: 277

Ion	Ratio	Lower	Upper
202	100		
101	14.0	9.4	14.0
203	17.0	13.5	20.3



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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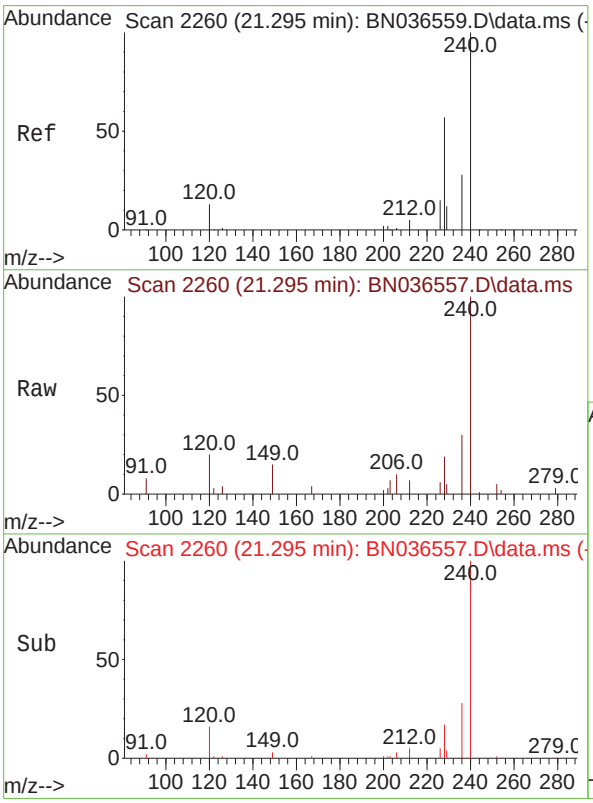
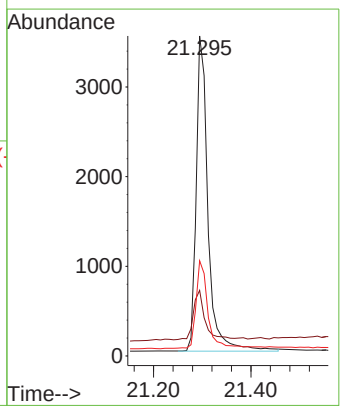
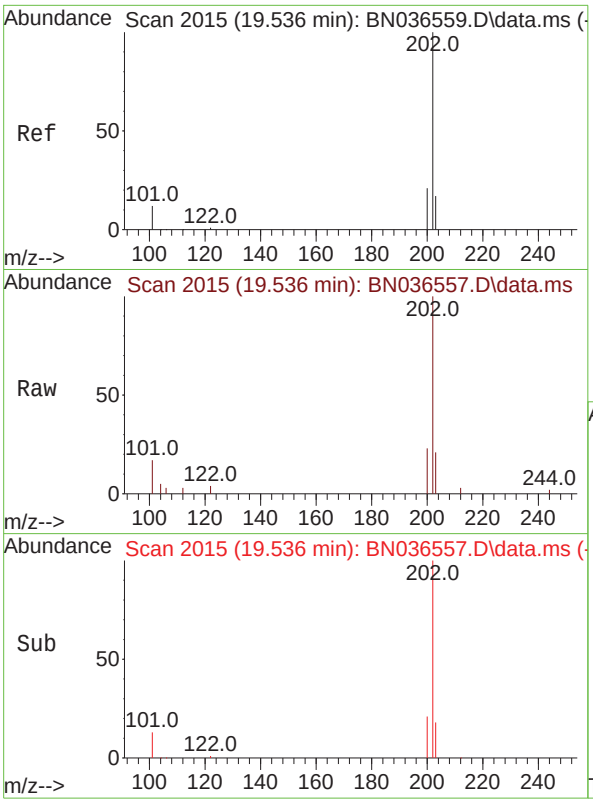


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2260
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:240 Resp: 5886

Ion	Ratio	Lower	Upper
240	100		
120	20.5	14.6	22.0
236	29.8	24.1	36.1

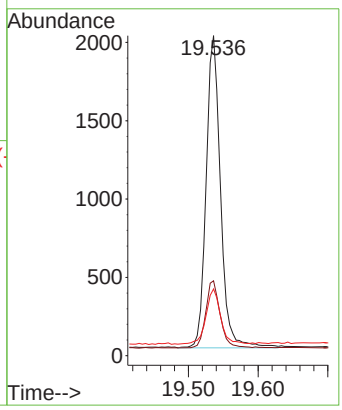




#30
Pyrene
Concen: 0.099 ng
RT: 19.536 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:202 Resp: 286

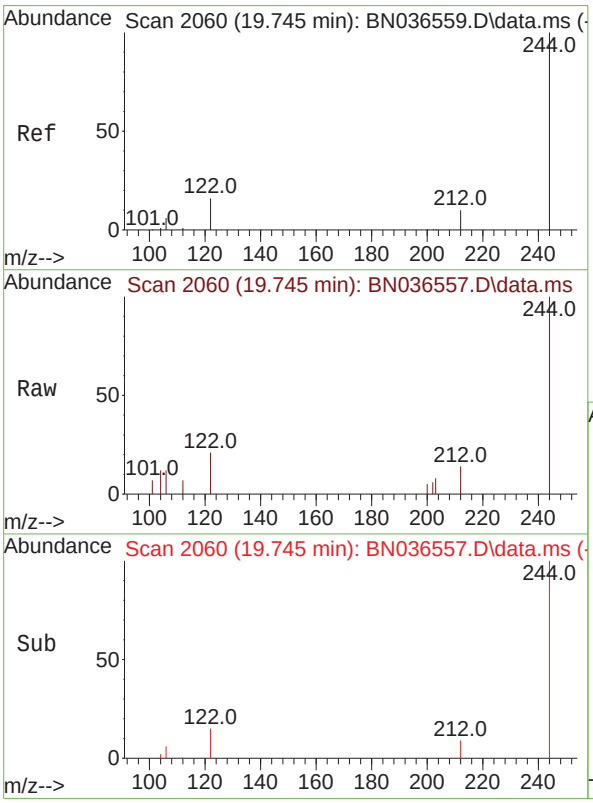
Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.1	25.7
203	17.9	14.1	21.1



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

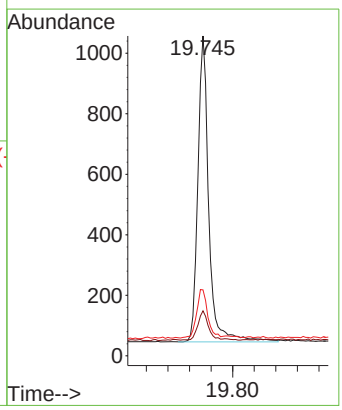
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

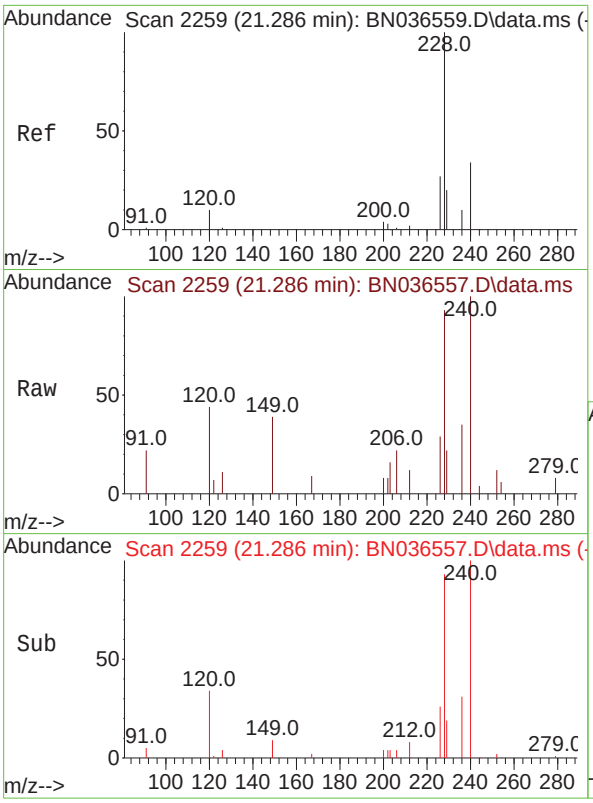


#31
Terphenyl-d14
Concen: 0.100 ng
RT: 19.745 min Scan# 2060
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:244 Resp: 1416

Ion	Ratio	Lower	Upper
244	100		
212	14.1	9.6	14.4
122	20.6	13.9	20.9

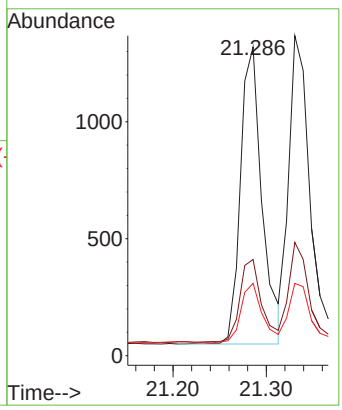




#32
Benzo(a)anthracene
Concen: 0.100 ng
RT: 21.286 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:228 Resp: 204

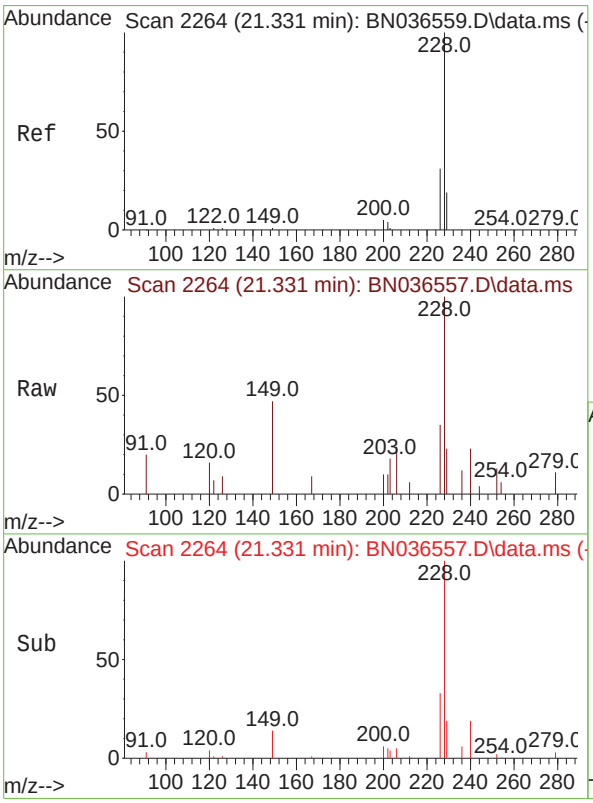
Ion	Ratio	Lower	Upper
228	100		
226	31.1	22.5	33.7
229	23.4	16.6	25.0



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations APPROVED

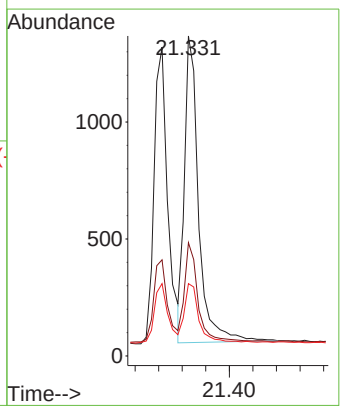
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

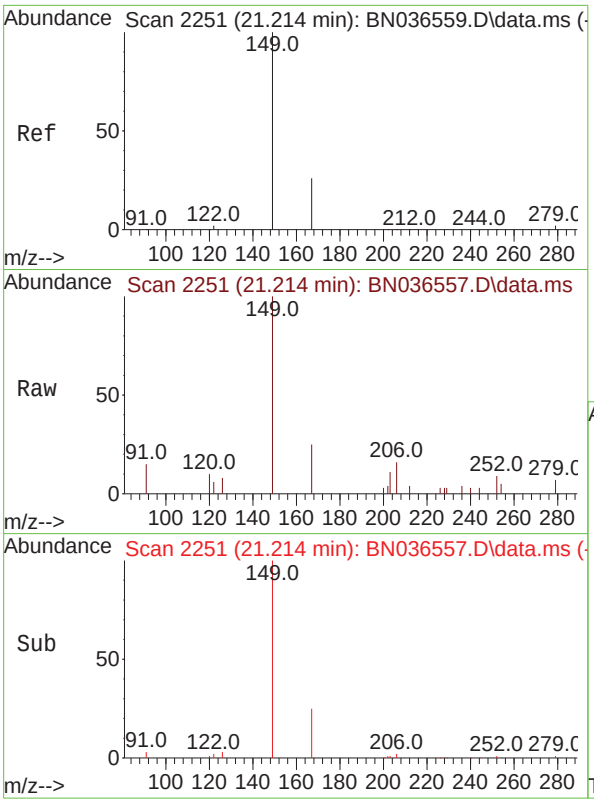


#33
Chrysene
Concen: 0.098 ng
RT: 21.331 min Scan# 2264
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:228 Resp: 2187

Ion	Ratio	Lower	Upper
228	100		
226	35.4	25.3	37.9
229	22.6	15.8	23.8





#34
Bis(2-ethylhexyl)phthalate
Concen: 0.121 ng
RT: 21.214 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:149 Resp: 176

Ion	Ratio	Lower	Upper
149	100		
167	27.9	20.7	31.1
279	4.9	3.6	5.4

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
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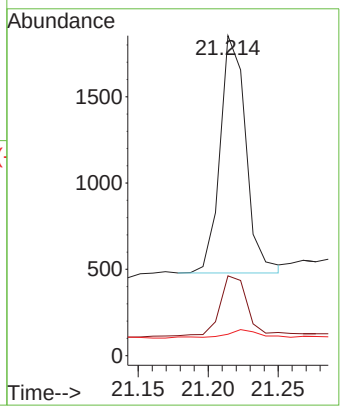
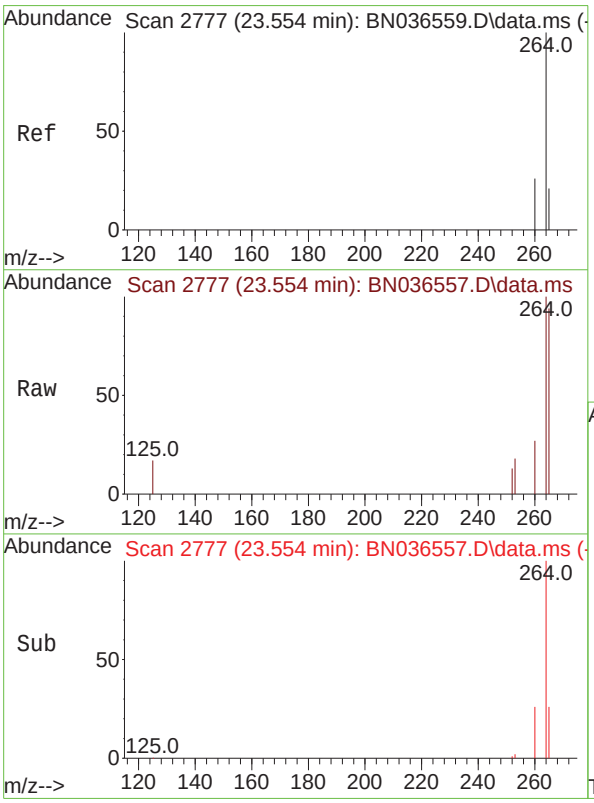
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

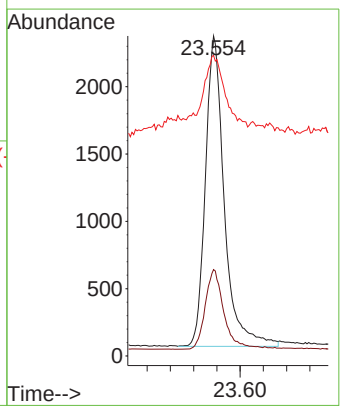


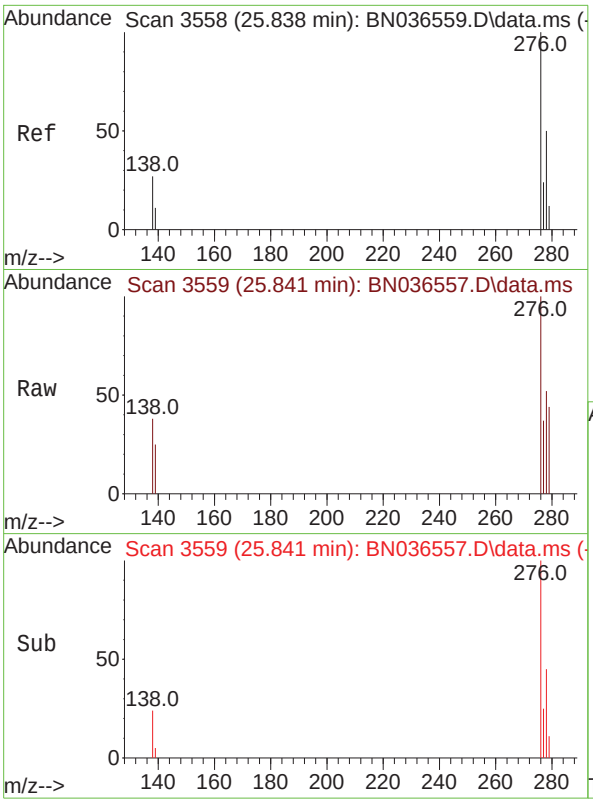


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.554 min Scan# 2777
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:264 Resp: 5207

Ion	Ratio	Lower	Upper
264	100		
260	27.0	22.6	33.8
265	93.9	88.1	132.1

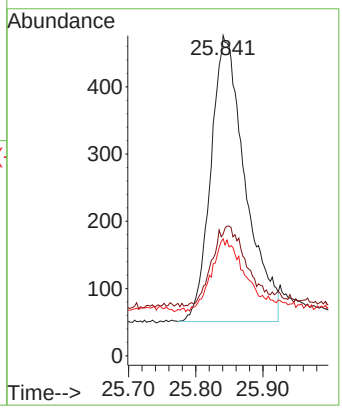




#36
Indeno(1,2,3-cd)pyrene
Concen: 0.080 ng
RT: 25.841 min Scan# 3
Delta R.T. 0.003 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:276 Resp: 151

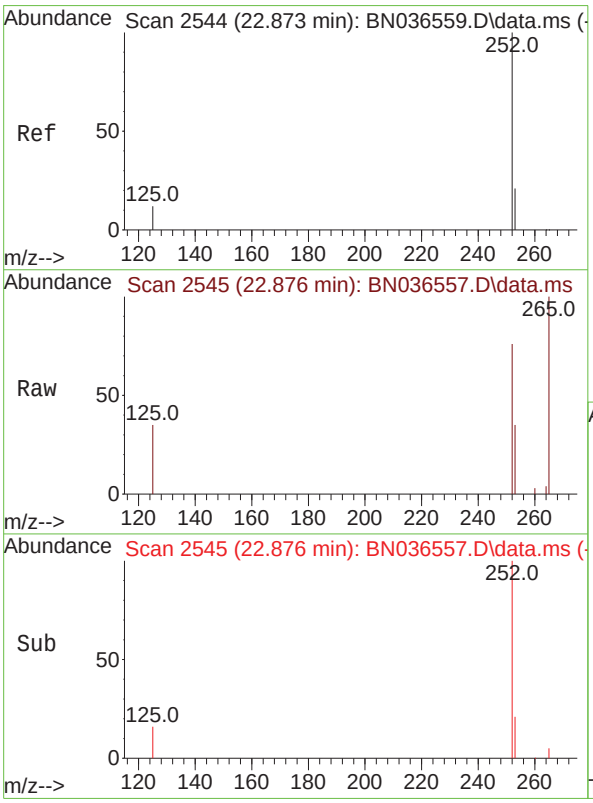
Ion	Ratio	Lower	Upper
276	100		
138	27.6	23.4	35.2
277	24.2	20.0	30.0



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

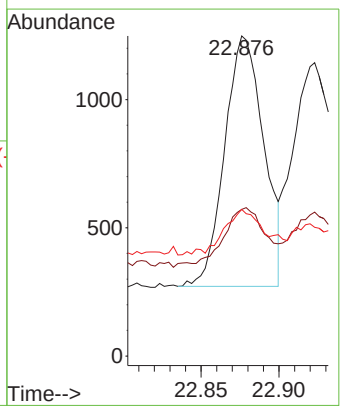
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

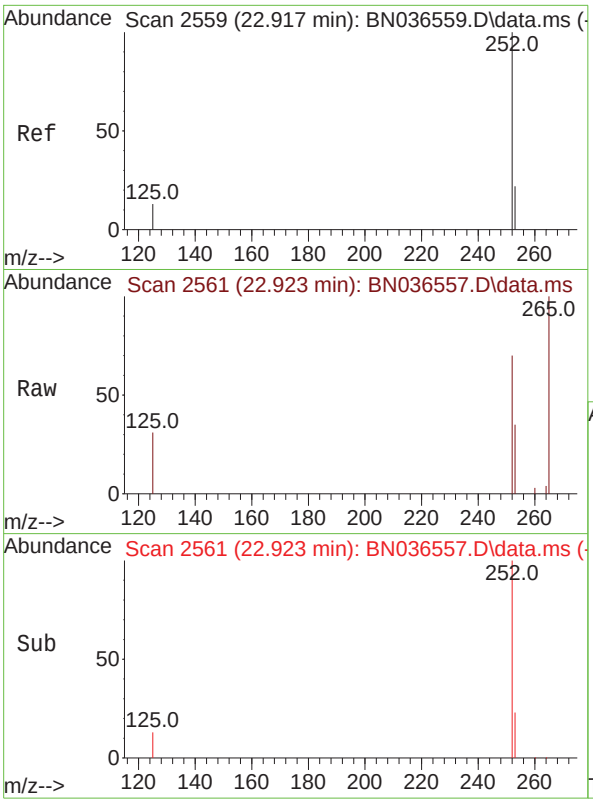


#37
Benzo(b)fluoranthene
Concen: 0.090 ng
RT: 22.876 min Scan# 2545
Delta R.T. 0.003 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:252 Resp: 1707

Ion	Ratio	Lower	Upper
252	100		
253	45.8	23.9	35.9#
125	45.8	17.4	26.2#





#38
Benzo(k)fluoranthene
Concen: 0.098 ng
RT: 22.923 min Scan# 2
Delta R.T. 0.006 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:252 Resp: 195

Ion	Ratio	Lower	Upper
252	100		
253	49.0	24.6	36.8#
125	43.9	17.8	26.8#

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
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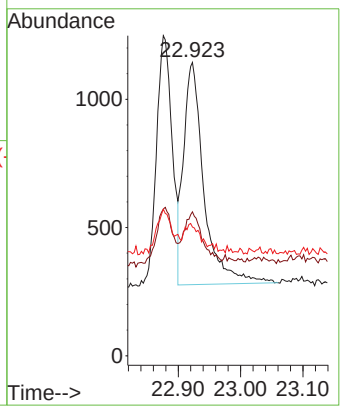
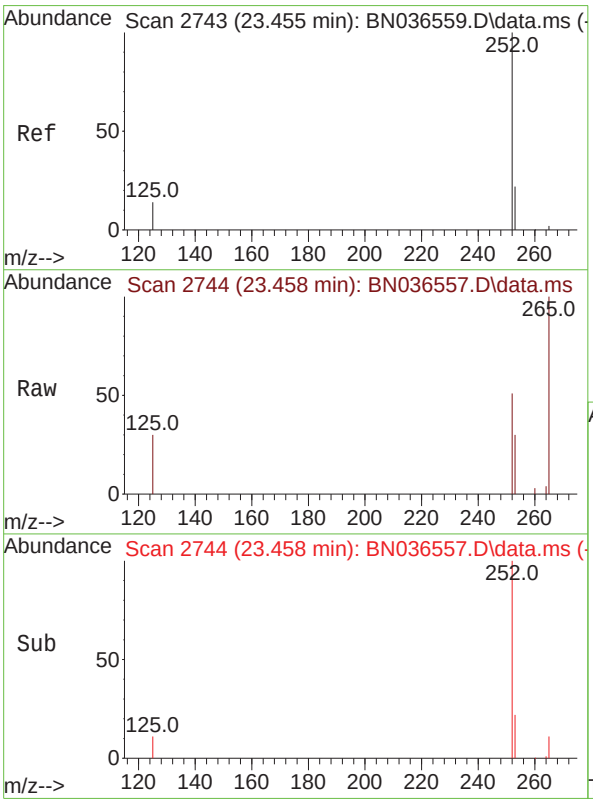
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

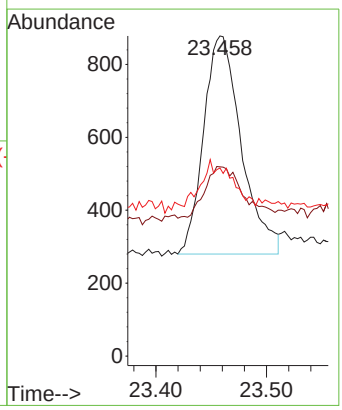


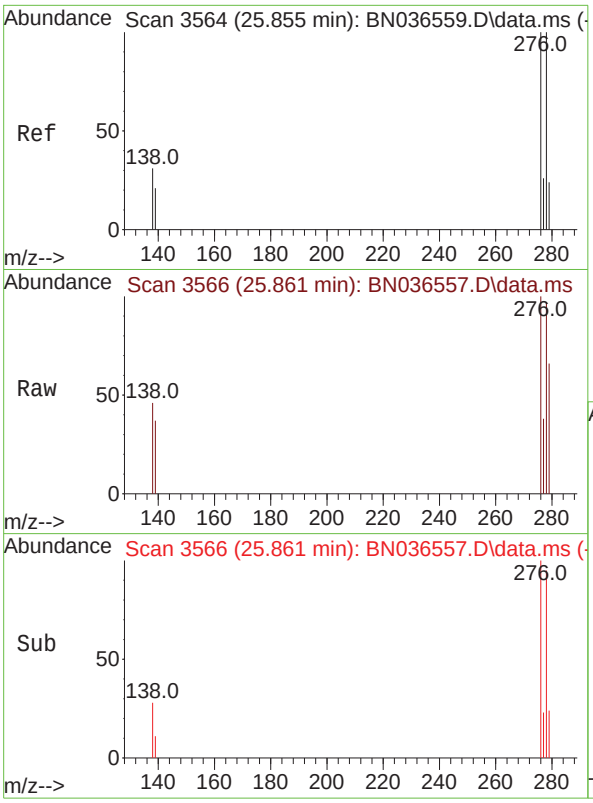


#39
Benzo(a)pyrene
Concen: 0.089 ng
RT: 23.458 min Scan# 2744
Delta R.T. 0.003 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:252 Resp: 1419

Ion	Ratio	Lower	Upper
252	100		
253	59.1	27.8	41.8#
125	58.8	22.7	34.1#

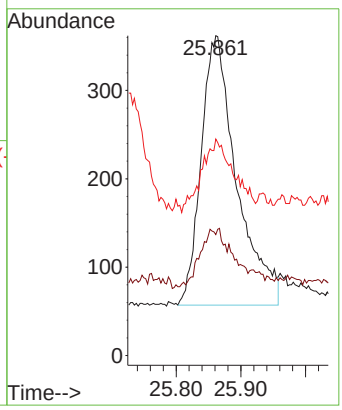




#40
Dibenzo(a,h)anthracene
Concen: 0.079 ng
RT: 25.861 min Scan# 3
Delta R.T. 0.006 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:278 Resp: 116

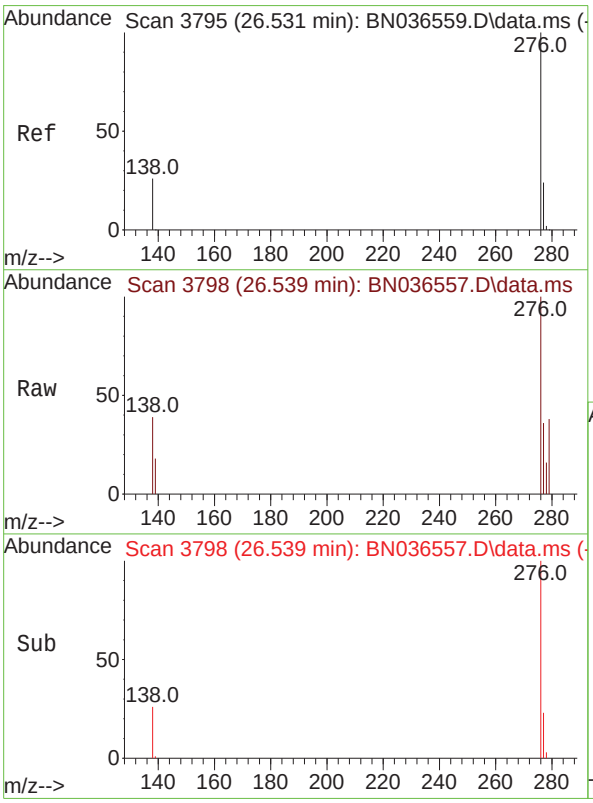
Ion	Ratio	Lower	Upper
278	100		
139	37.8	20.8	31.2#
279	67.7	28.8	43.2#



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

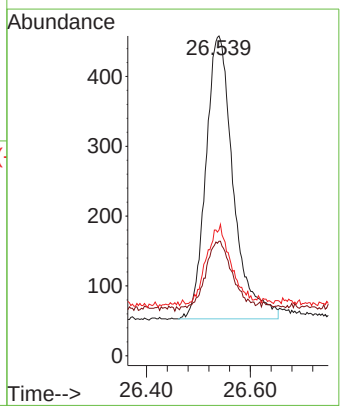
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#41
Benzo(g,h,i)perylene
Concen: 0.089 ng
RT: 26.539 min Scan# 3798
Delta R.T. 0.009 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:276 Resp: 1482

Ion	Ratio	Lower	Upper
276	100		
277	35.8	22.2	33.4#
138	39.3	24.1	36.1#



ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036558.D
Acq On : 10 Mar 2025 12:18
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

Quant Time: Mar 10 16:00:58 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:54:23 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.724	152	2504	0.400	ng		0.00
7) Naphthalene-d8	10.509	136	5844	0.400	ng		0.00
13) Acenaphthene-d10	14.366	164	3516	0.400	ng		0.00
19) Phenanthrene-d10	17.111	188	7506	0.400	ng		0.00
29) Chrysene-d12	21.295	240	4730	0.400	ng		0.00
35) Perylene-d12	23.554	264	4241	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.312	112	1137	0.195	ng		0.00
5) Phenol-d6	6.901	99	1323	0.184	ng		0.00
8) Nitrobenzene-d5	8.875	82	1156	0.182	ng		0.00
11) 2-Methylnaphthalene-d10	12.111	152	1603	0.184	ng		0.00
14) 2,4,6-Tribromophenol	15.858	330	282	0.177	ng		0.00
15) 2-Fluorobiphenyl	12.993	172	3485	0.170	ng		0.00
27) Fluoranthene-d10	19.146	212	3583	0.186	ng		0.00
31) Terphenyl-d14	19.745	244	2283	0.201	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.247	88	550m	0.198	ng		
3) n-Nitrosodimethylamine	3.557	42	1094	0.195	ng		92
6) bis(2-Chloroethyl)ether	7.154	93	1440	0.193	ng		99
9) Naphthalene	10.562	128	3286	0.191	ng		97
10) Hexachlorobutadiene	10.850	225	828	0.205	ng	#	97
12) 2-Methylnaphthalene	12.187	142	2034	0.186	ng		97
16) Acenaphthylene	14.088	152	3087	0.186	ng		100
17) Acenaphthene	14.430	154	2038	0.188	ng		99
18) Fluorene	15.414	166	2813	0.191	ng		99
20) 4,6-Dinitro-2-methylph...	15.510	198	214	0.258	ng	#	69
21) 4-Bromophenyl-phenylether	16.304	248	853	0.181	ng		93
22) Hexachlorobenzene	16.416	284	1079	0.190	ng		99
23) Atrazine	16.578	200	716	0.190	ng		97
24) Pentachlorophenol	16.776	266	435	0.168	ng		98
25) Phenanthrene	17.148	178	4171	0.185	ng		100
26) Anthracene	17.248	178	3645	0.179	ng		99
28) Fluoranthene	19.174	202	4666	0.184	ng		99
30) Pyrene	19.536	202	4742	0.205	ng		100
32) Benzo(a)anthracene	21.286	228	3111	0.189	ng		97
33) Chrysene	21.331	228	3568	0.199	ng		97
34) Bis(2-ethylhexyl)phtha...	21.214	149	2601	0.222	ng	#	97
36) Indeno(1,2,3-cd)pyrene	25.844	276	2790	0.182	ng		98
37) Benzo(b)fluoranthene	22.876	252	2883	0.187	ng	#	83
38) Benzo(k)fluoranthene	22.917	252	2962	0.183	ng	#	86
39) Benzo(a)pyrene	23.458	252	2443	0.188	ng	#	76
40) Dibenzo(a,h)anthracene	25.858	278	2080	0.175	ng	#	83
41) Benzo(g,h,i)perylene	26.536	276	2573	0.189	ng		95

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

ICAL Form

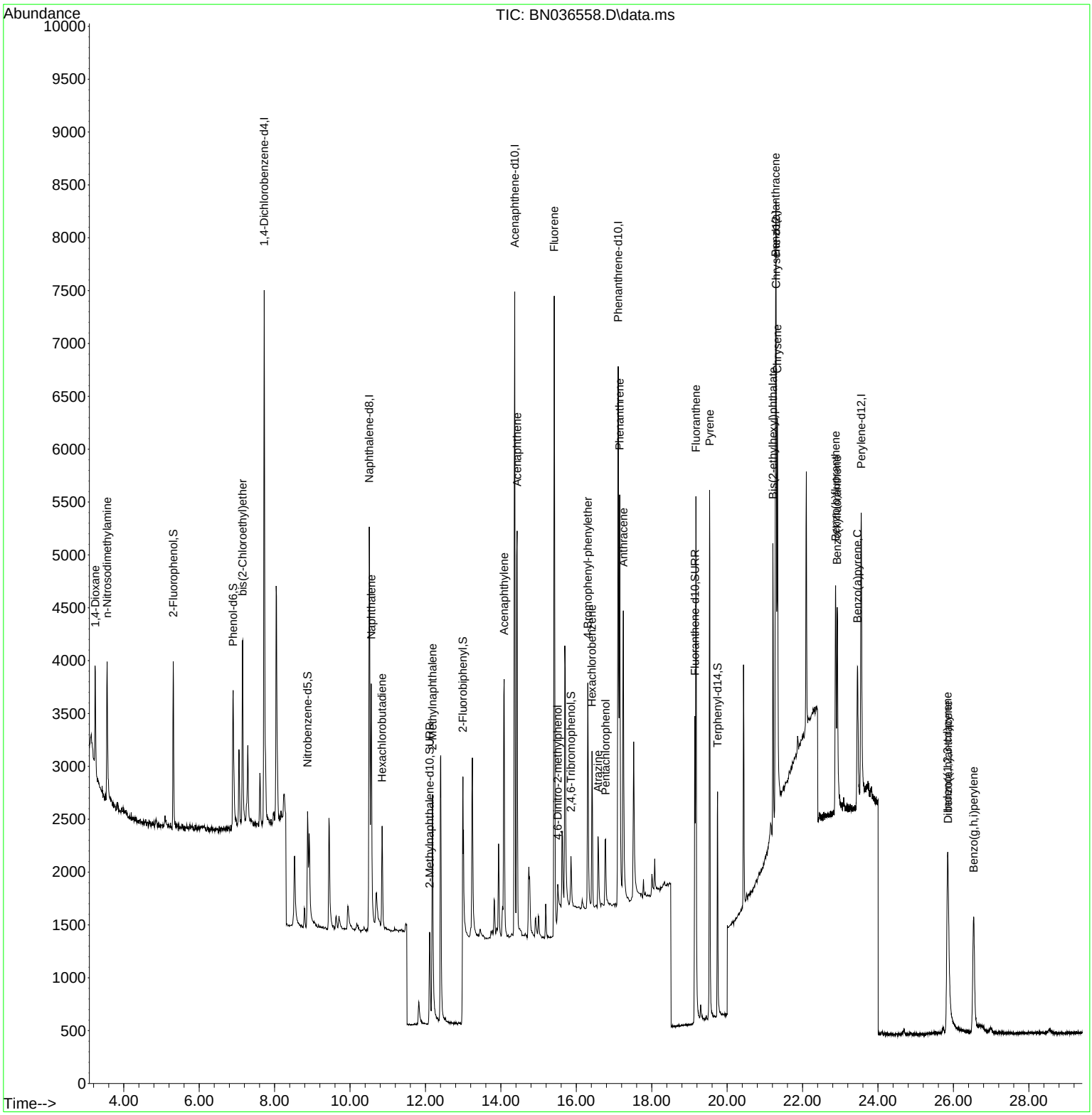
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036558.D
Acq On : 10 Mar 2025 12:18
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

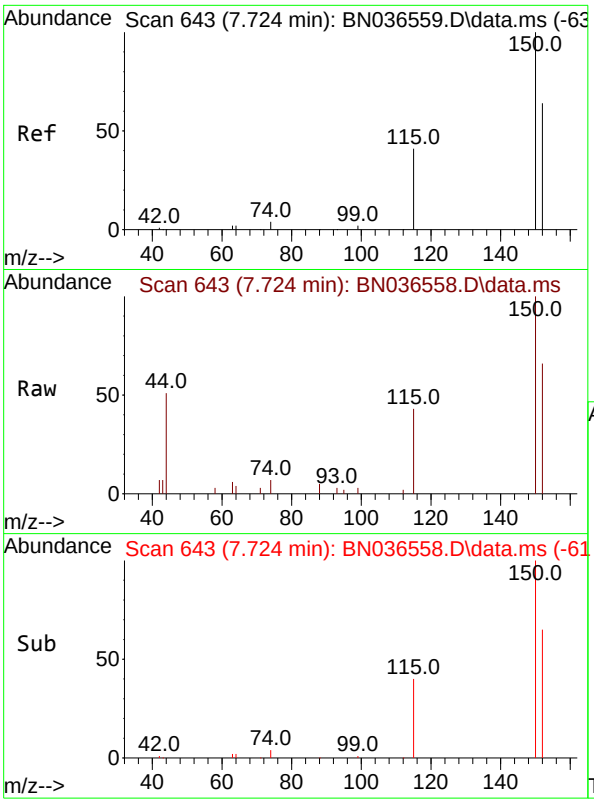
Quant Time: Mar 10 16:00:58 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:54:23 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

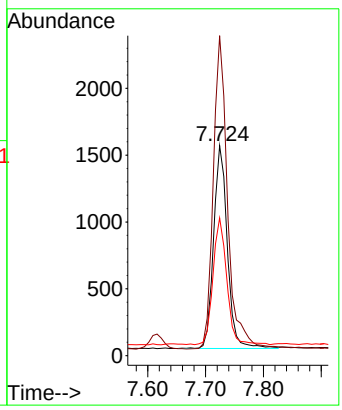




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:152 Resp: 250

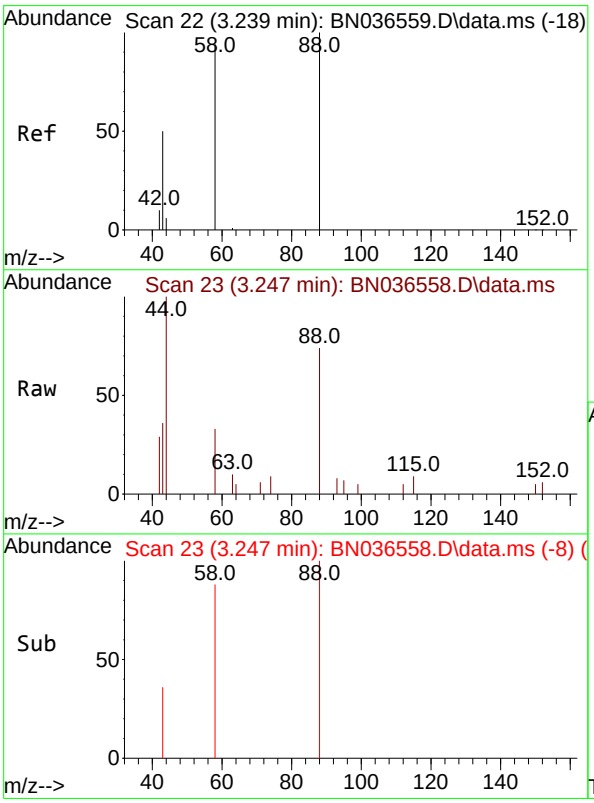
Ion	Ratio	Lower	Upper
152	100		
150	152.3	123.7	185.5
115	65.5	54.3	81.5



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

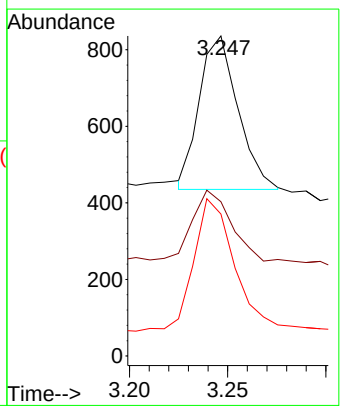
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

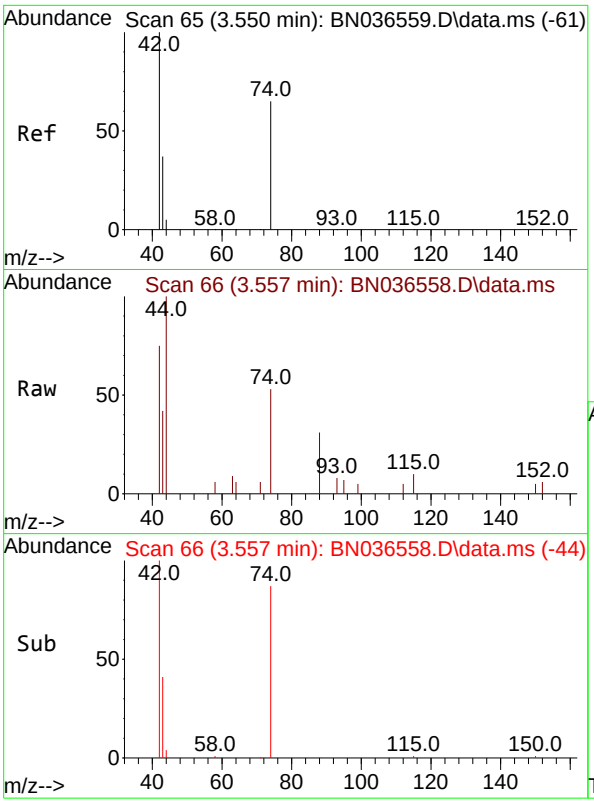


#2
1,4-Dioxane
Concen: 0.198 ng m
RT: 3.247 min Scan# 23
Delta R.T. 0.007 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion: 88 Resp: 550

Ion	Ratio	Lower	Upper
88	100		
43	56.5	37.8	56.8
58	93.8	67.4	101.2

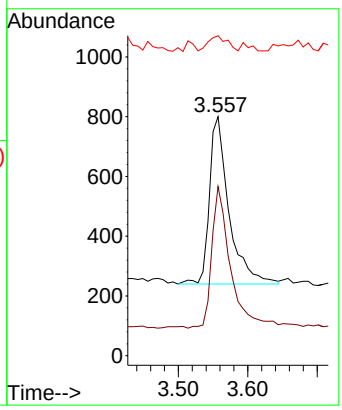




#3
n-Nitrosodimethylamine
Concen: 0.195 ng
RT: 3.557 min Scan# 6
Delta R.T. 0.007 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion: 42 Resp: 109

Ion	Ratio	Lower	Upper
42	100		
74	83.2	60.6	90.8
44	8.5	6.3	9.5



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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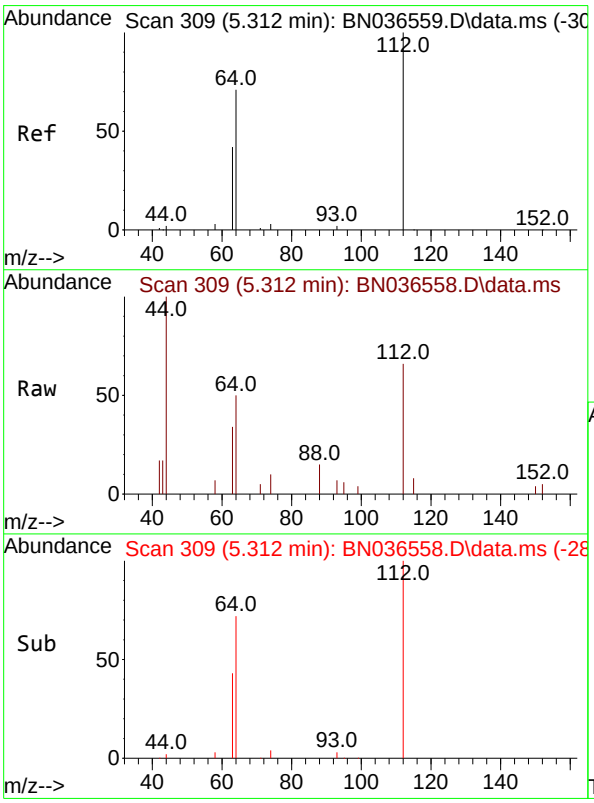
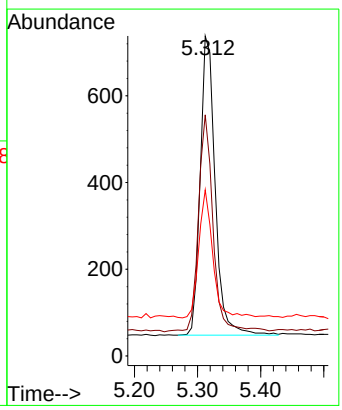
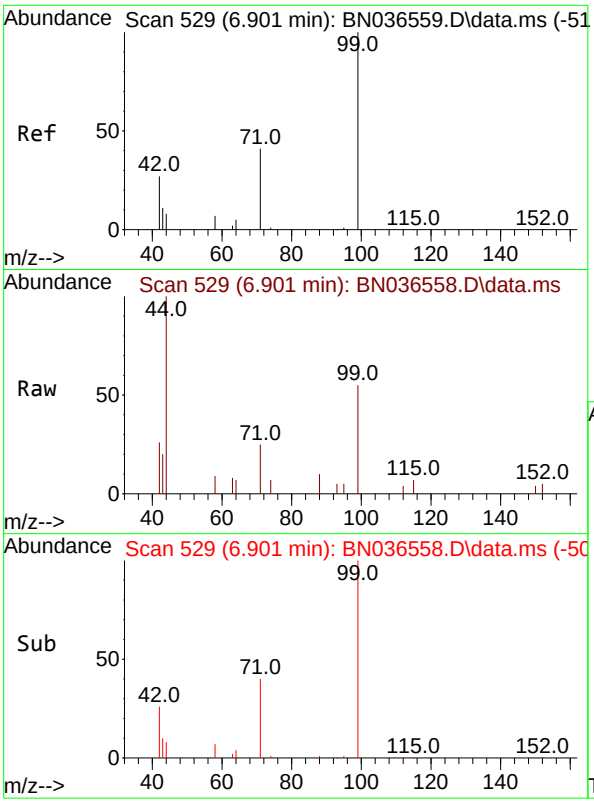


#4
2-Fluorophenol
Concen: 0.195 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:112 Resp: 1137

Ion	Ratio	Lower	Upper
112	100		
64	70.6	53.1	79.7
63	40.3	31.8	47.8

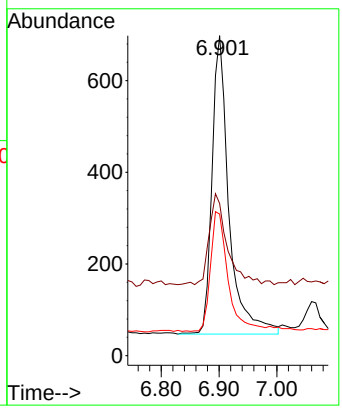




#5
Phenol-d6
Concen: 0.184 ng
RT: 6.901 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion: 99 Resp: 132

Ion	Ratio	Lower	Upper
99	100		
42	32.7	26.5	39.7
71	41.3	34.1	51.1



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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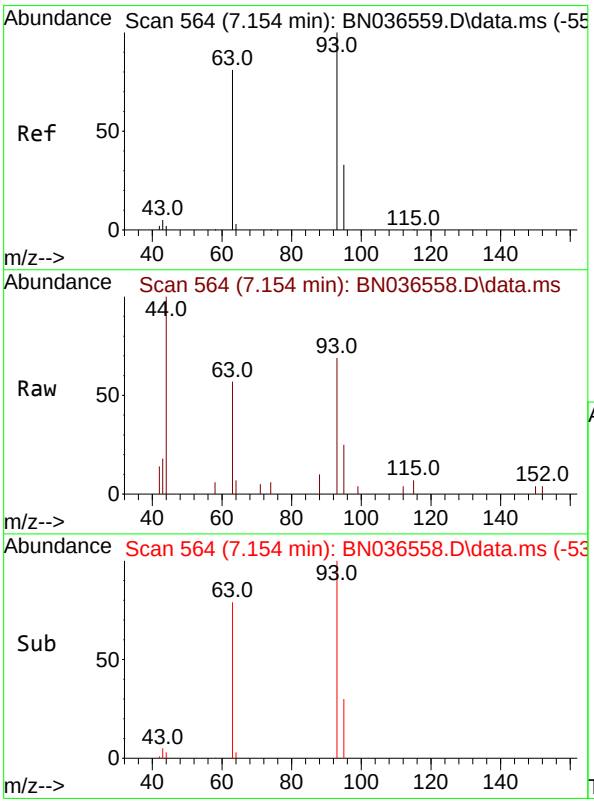
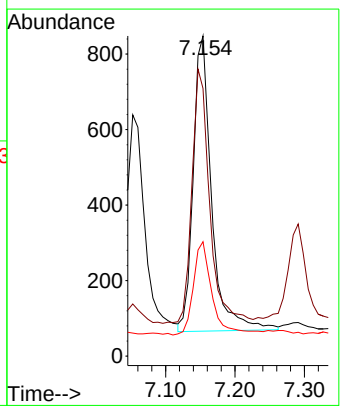
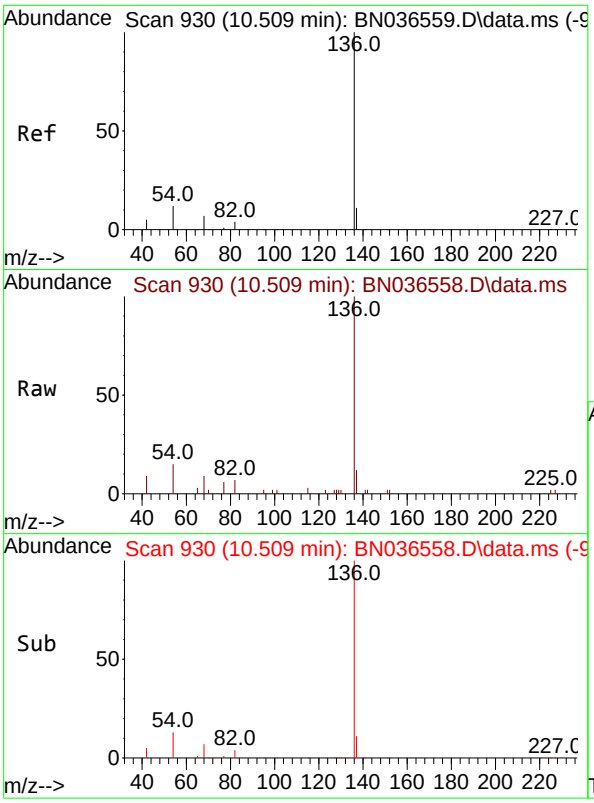


#6
bis(2-Chloroethyl)ether
Concen: 0.193 ng
RT: 7.154 min Scan# 564
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion: 93 Resp: 1440

Ion	Ratio	Lower	Upper
93	100		
63	82.9	67.7	101.5
95	31.9	25.6	38.4

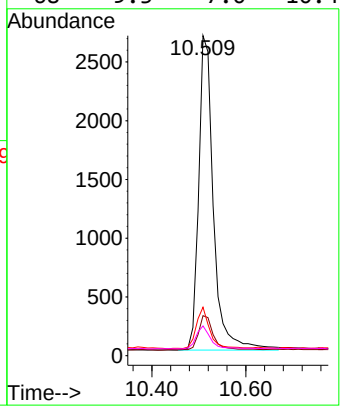




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:136 Resp: 584

Ion	Ratio	Lower	Upper
136	100		
137	12.5	10.3	15.5
54	15.1	11.5	17.3
68	9.3	7.0	10.4



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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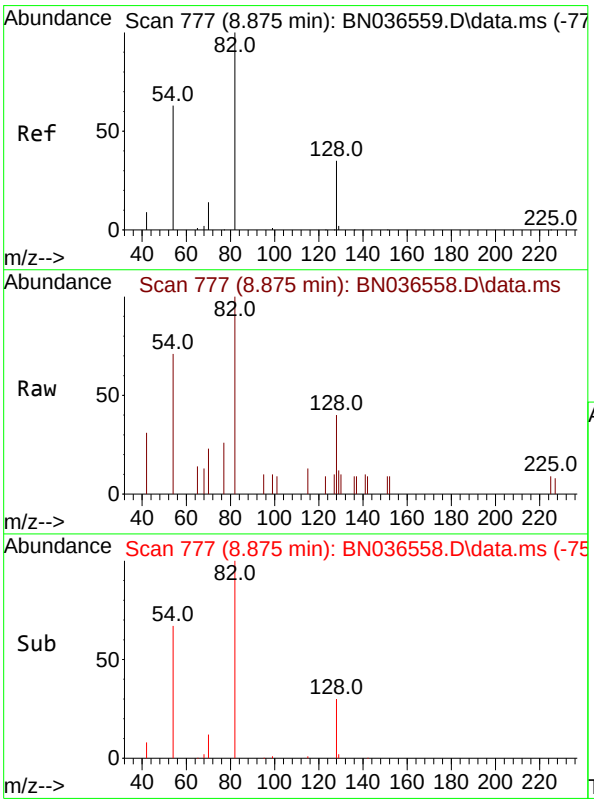
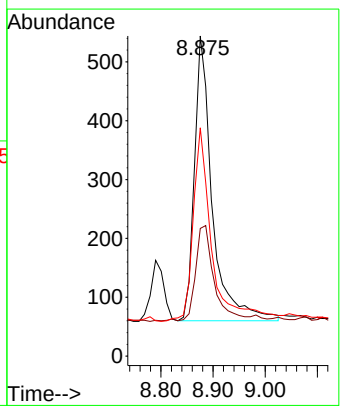
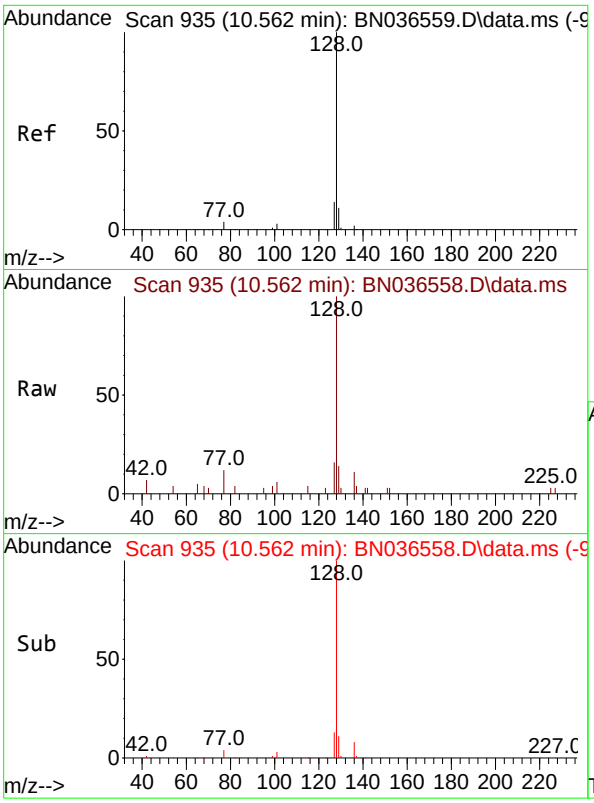


#8
Nitrobenzene-d5
Concen: 0.182 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion: 82 Resp: 1156

Ion	Ratio	Lower	Upper
82	100		
128	39.9	30.6	45.8
54	71.3	52.2	78.4

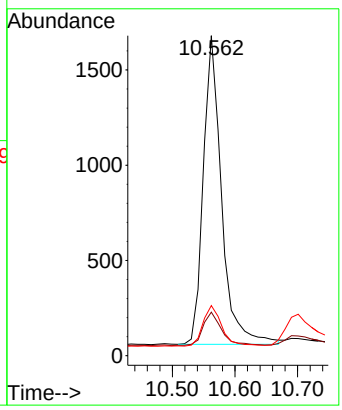




#9
Naphthalene
Concen: 0.191 ng
RT: 10.562 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:128 Resp: 328

Ion	Ratio	Lower	Upper
128	100		
129	13.6	9.8	14.6
127	15.7	11.8	17.8



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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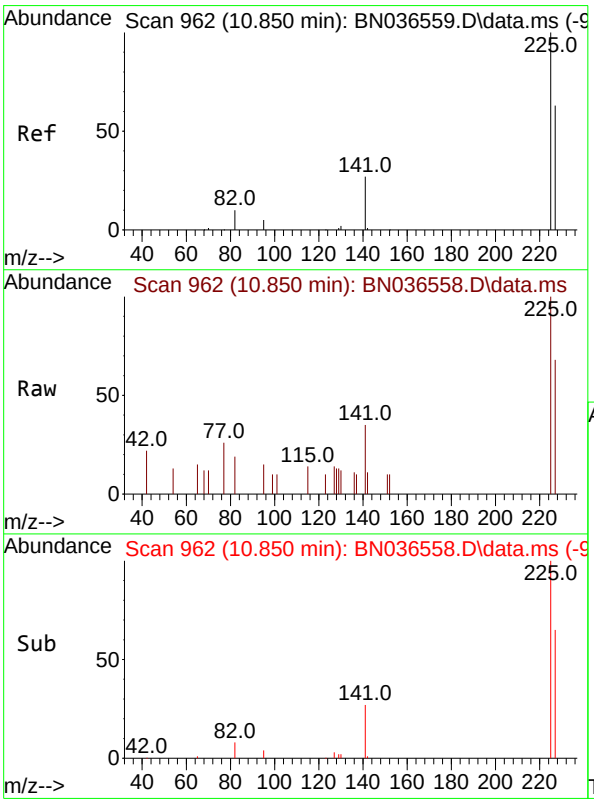
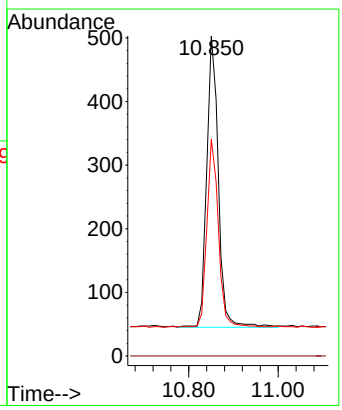
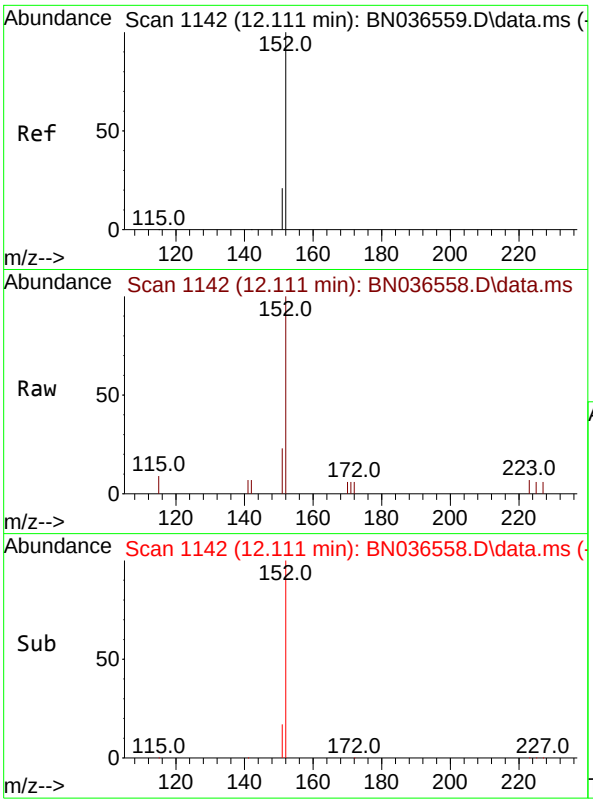


#10
Hexachlorobutadiene
Concen: 0.205 ng
RT: 10.850 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:225 Resp: 828

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	62.6	51.8	77.8

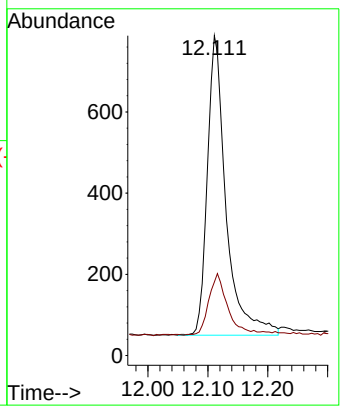




#11
2-Methylnaphthalene-d10
Concen: 0.184 ng
RT: 12.111 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:152 Resp: 160

Ion	Ratio	Lower	Upper
152	100		
151	21.0	17.0	25.6



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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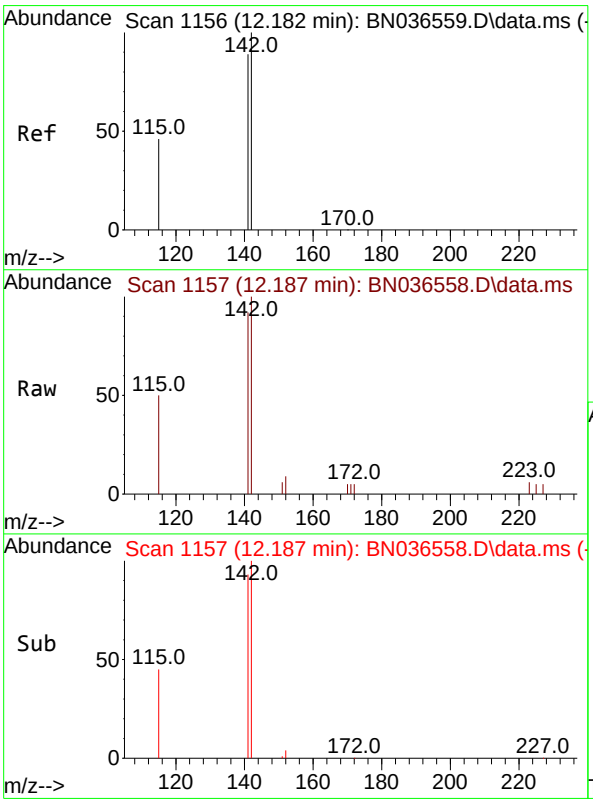
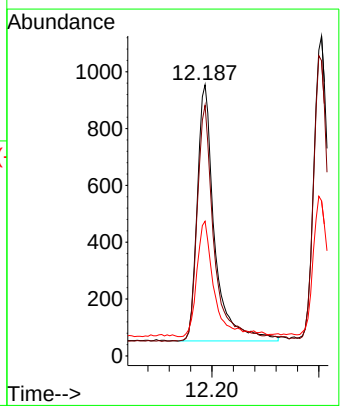
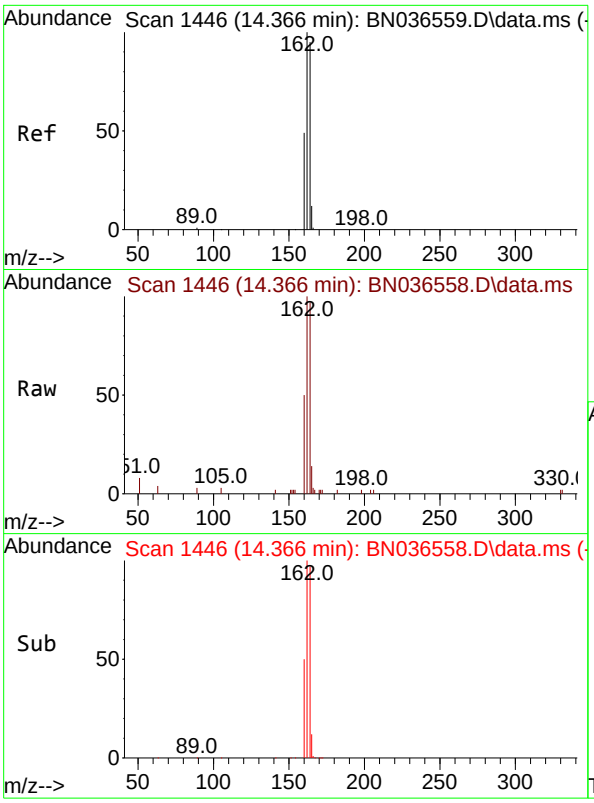


#12
2-Methylnaphthalene
Concen: 0.186 ng
RT: 12.187 min Scan# 1157
Delta R.T. 0.005 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:142 Resp: 2034

Ion	Ratio	Lower	Upper
142	100		
141	92.5	71.7	107.5
115	49.7	38.3	57.5

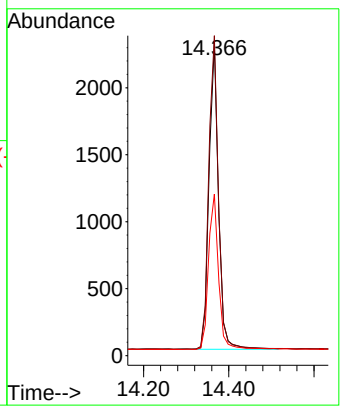




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:164 Resp: 351

Ion	Ratio	Lower	Upper
164	100		
162	102.6	84.2	126.2
160	51.8	42.2	63.2



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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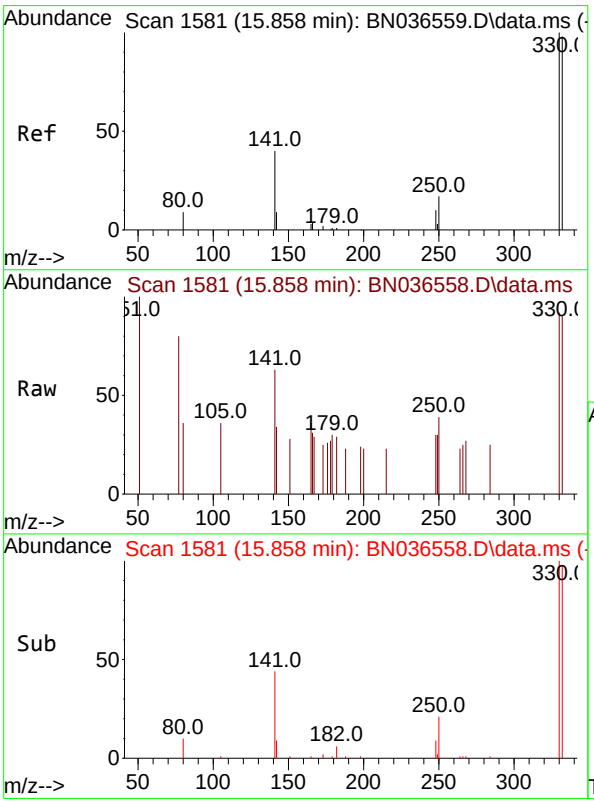
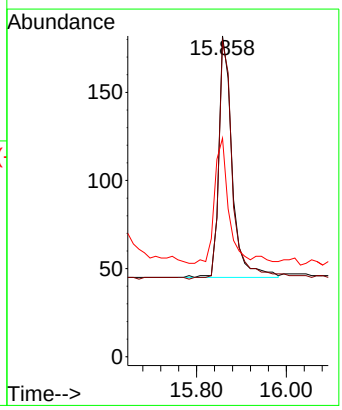
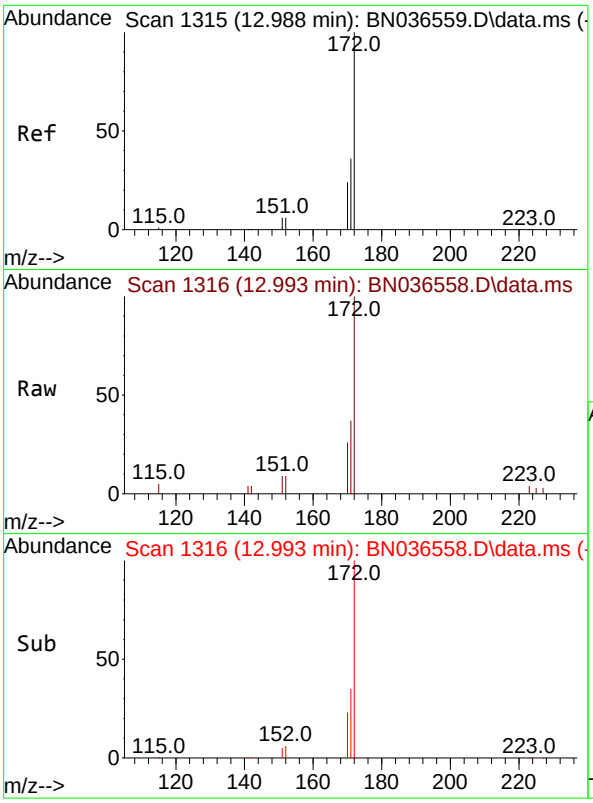


#14
2,4,6-Tribromophenol
Concen: 0.177 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:330 Resp: 282

Ion	Ratio	Lower	Upper
330	100		
332	103.5	75.2	112.8
141	53.9	43.4	65.2

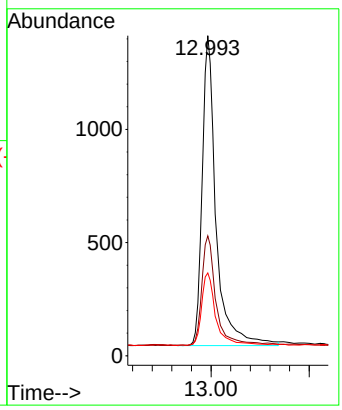




#15
2-Fluorobiphenyl
Concen: 0.170 ng
RT: 12.993 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:172 Resp: 348

Ion	Ratio	Lower	Upper
172	100		
171	37.5	29.5	44.3
170	25.9	20.2	30.4



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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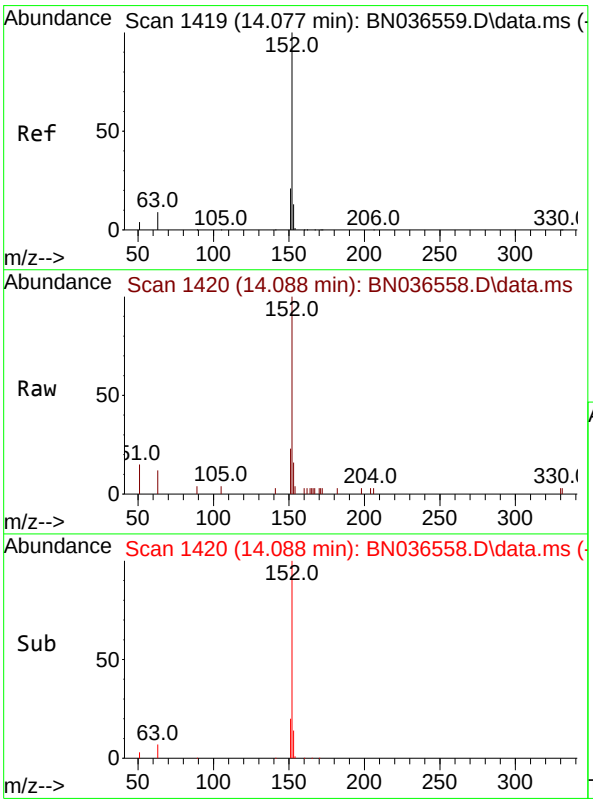
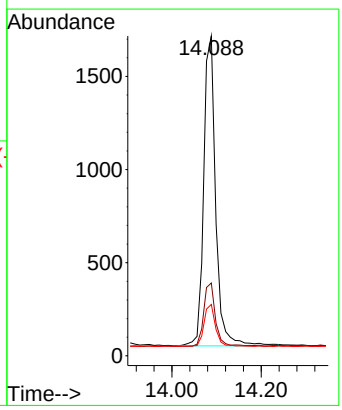
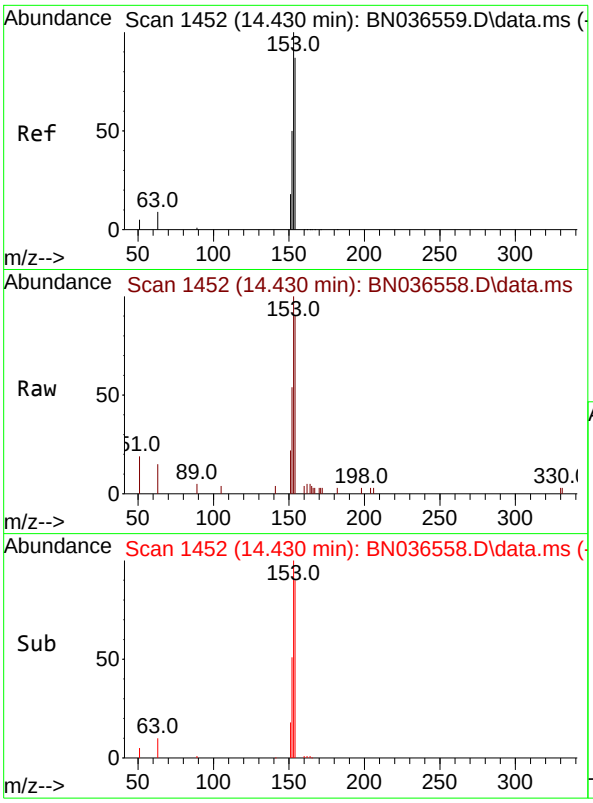


#16
Acenaphthylene
Concen: 0.186 ng
RT: 14.088 min Scan# 1420
Delta R.T. 0.011 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:152 Resp: 3087

Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.2	24.4
153	13.0	10.6	15.8

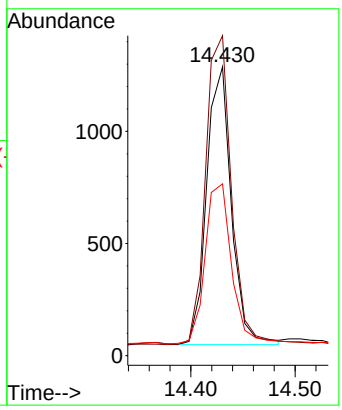




#17
Acenaphthene
Concen: 0.188 ng
RT: 14.430 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:154 Resp: 203

Ion	Ratio	Lower	Upper
154	100		
153	117.8	94.1	141.1
152	63.1	49.8	74.6



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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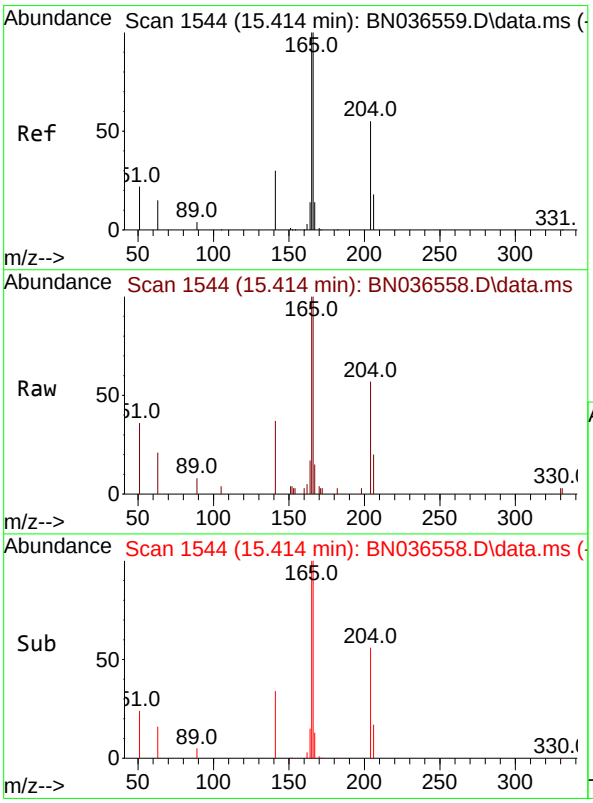
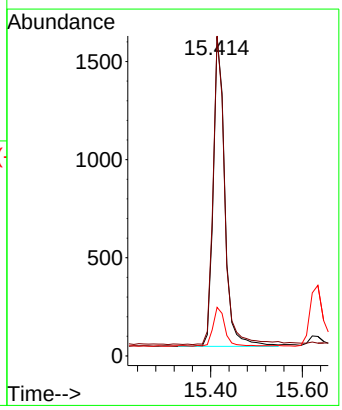
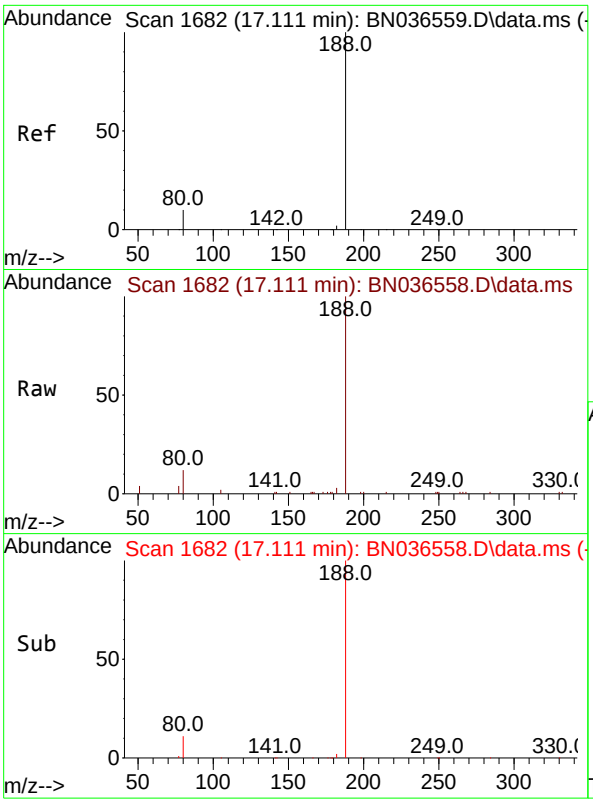


#18
Fluorene
Concen: 0.191 ng
RT: 15.414 min Scan# 1544
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:166 Resp: 2813

Ion	Ratio	Lower	Upper
166	100		
165	101.1	79.8	119.8
167	12.6	10.6	15.8

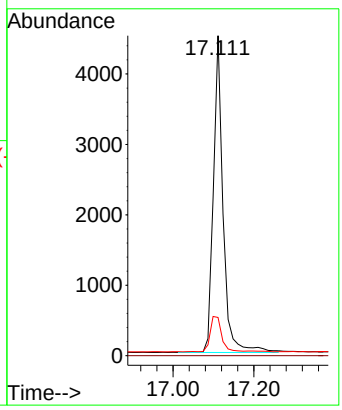




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:188 Resp: 750

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.9	8.8	13.2



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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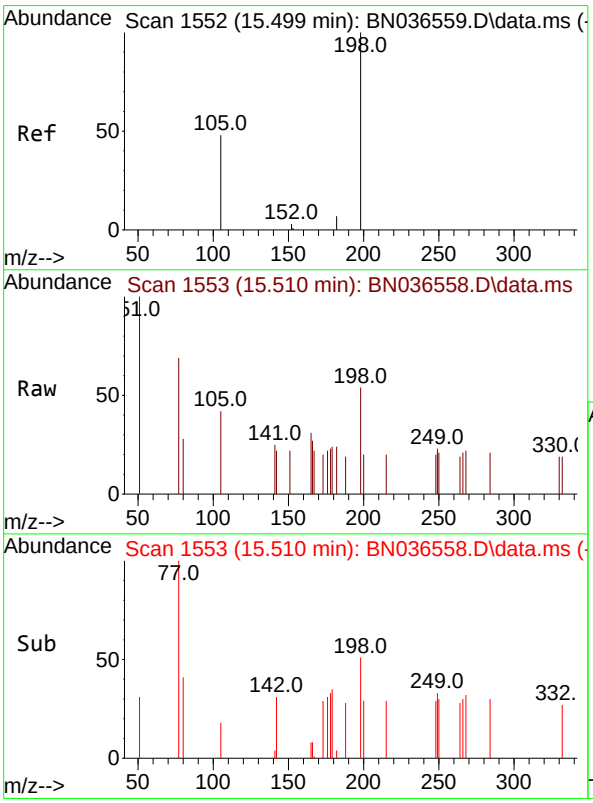
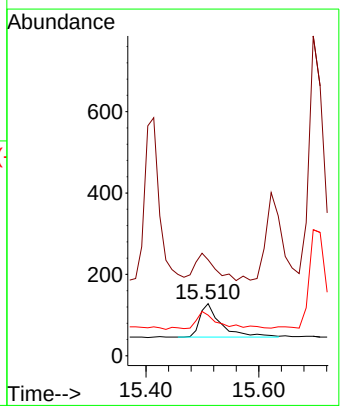
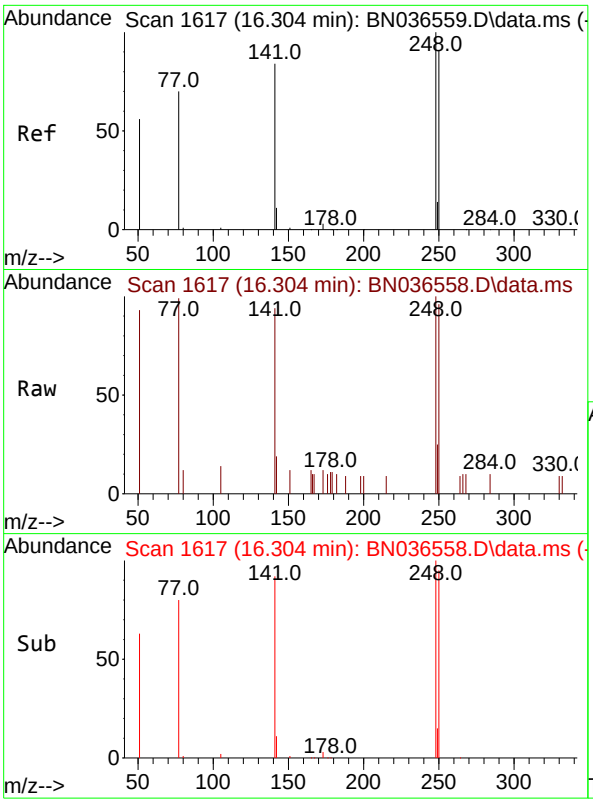


#20
4,6-Dinitro-2-methylphenol
Concen: 0.258 ng
RT: 15.510 min Scan# 1553
Delta R.T. 0.011 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:198 Resp: 214

Ion	Ratio	Lower	Upper
198	100		
51	184.4	107.9	161.9#
105	78.1	56.2	84.2





#21
4-Bromophenyl-phenylether
Concen: 0.181 ng
RT: 16.304 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:248 Resp: 85

Ion	Ratio	Lower	Upper
248	100		
250	95.9	73.0	109.6
141	93.7	68.6	103.0

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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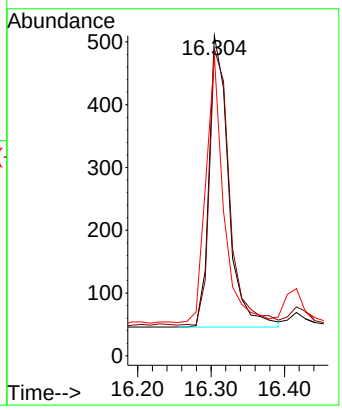
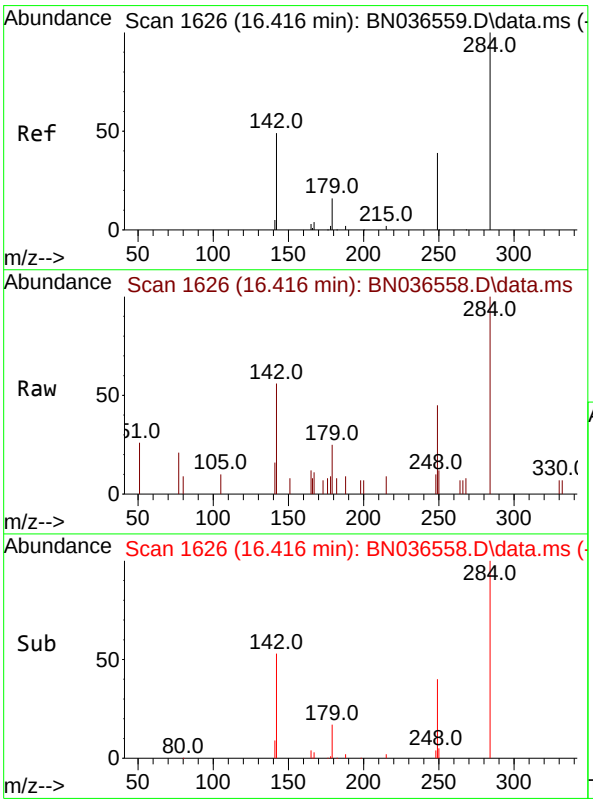
Supervised By :Jagrut Upadhyay 03/11/2025

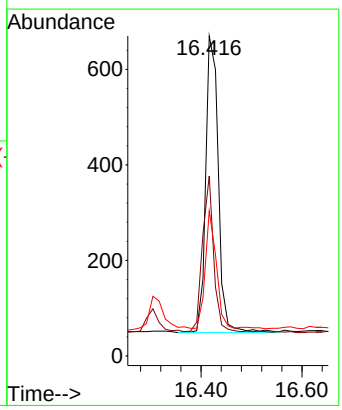


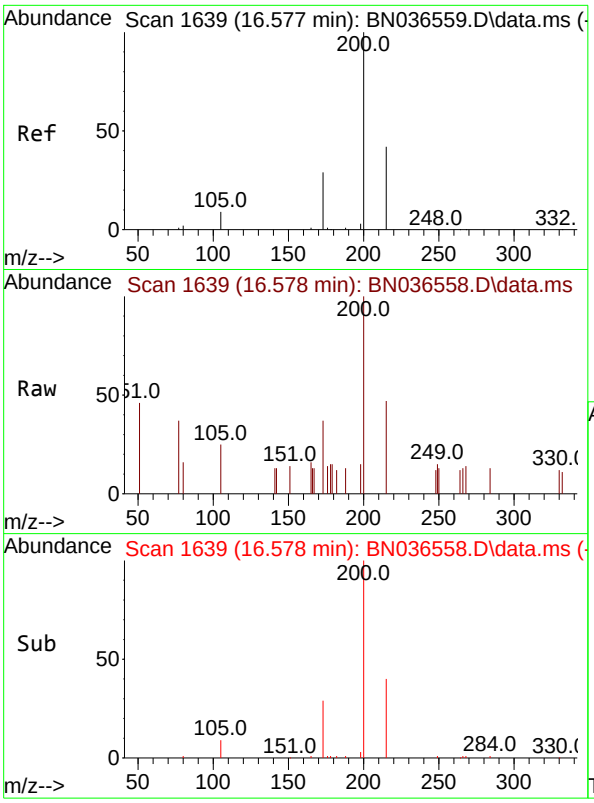


#22
Hexachlorobenzene
Concen: 0.190 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:284 Resp: 1079

Ion	Ratio	Lower	Upper
284	100		
142	47.0	37.0	55.4
249	34.8	28.1	42.1

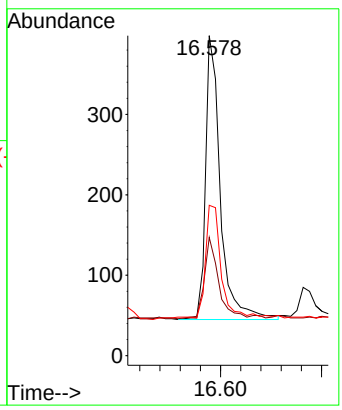




#23
Atrazine
Concen: 0.190 ng
RT: 16.578 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:200 Resp: 71(

Ion	Ratio	Lower	Upper
200	100		
173	36.9	27.3	40.9
215	47.0	36.8	55.2



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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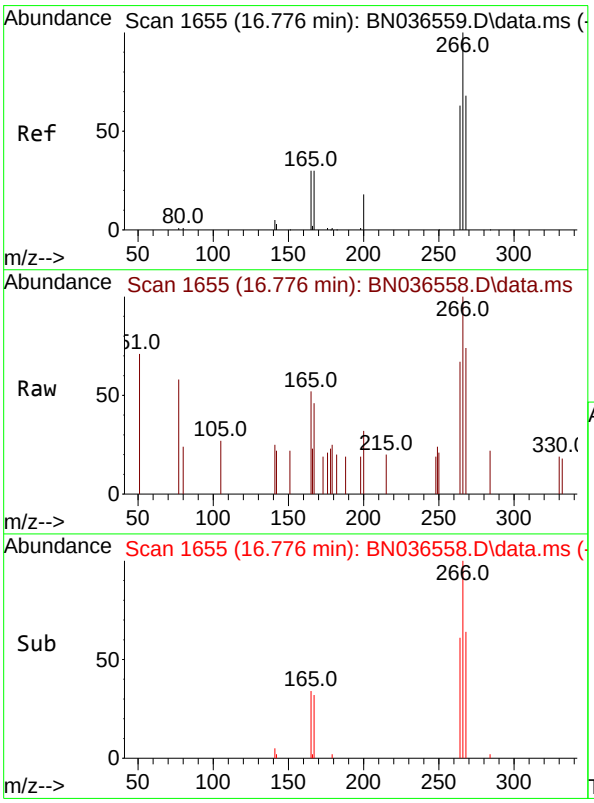
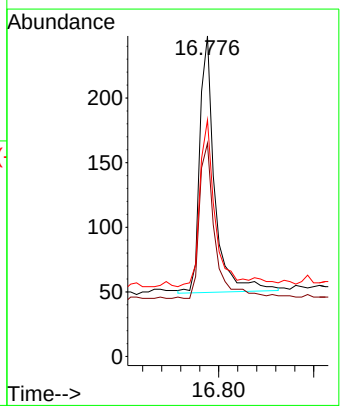
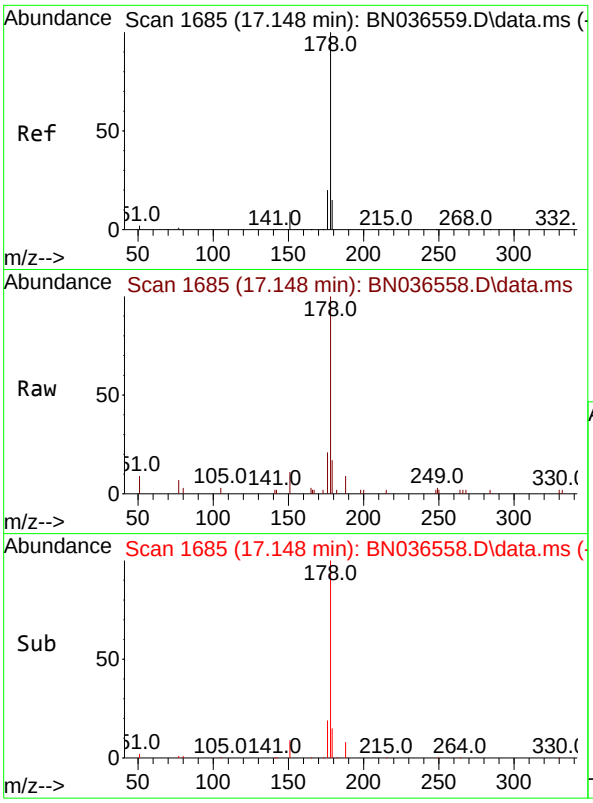


#24
Pentachlorophenol
Concen: 0.168 ng
RT: 16.776 min Scan# 1655
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:266 Resp: 435

Ion	Ratio	Lower	Upper
266	100		
264	63.4	49.6	74.4
268	65.7	50.9	76.3

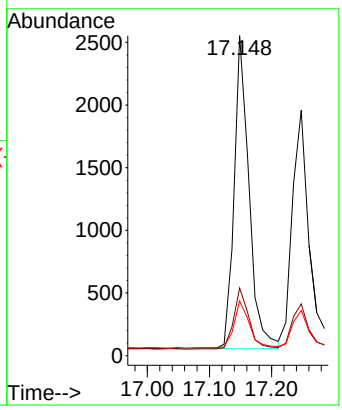




#25
Phenanthrene
Concen: 0.185 ng
RT: 17.148 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:178 Resp: 417

Ion	Ratio	Lower	Upper
178	100		
176	20.0	15.9	23.9
179	15.5	12.2	18.4



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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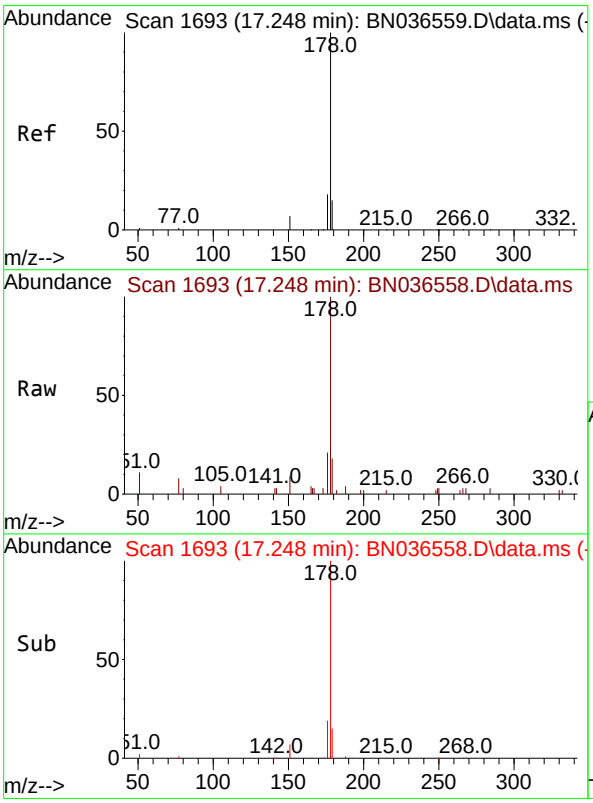
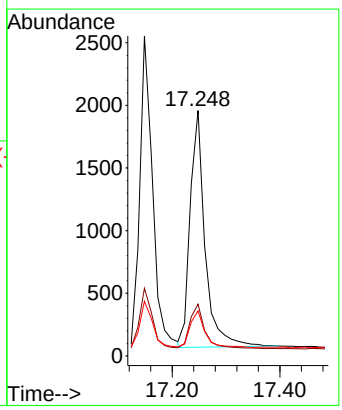
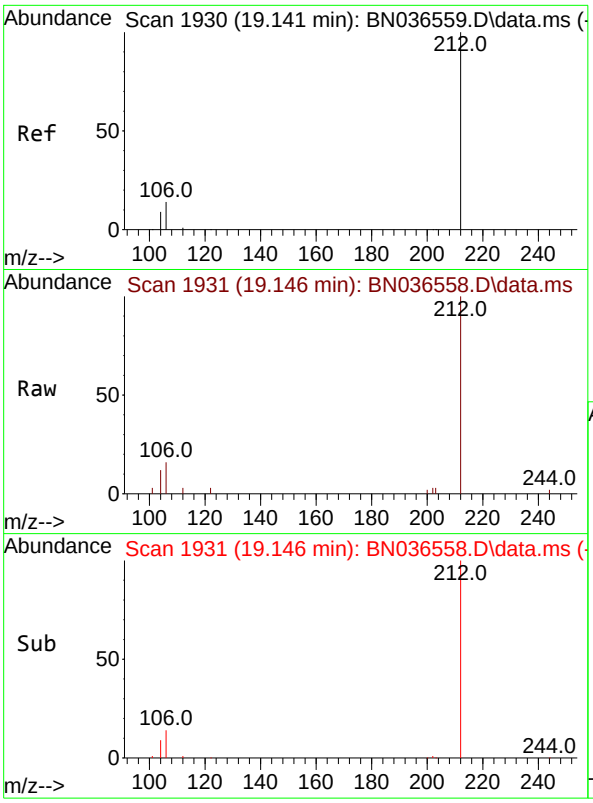


#26
Anthracene
Concen: 0.179 ng
RT: 17.248 min Scan# 1693
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:178 Resp: 3645

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.4	23.2
179	15.1	12.6	18.8





#27
Fluoranthene-d10
Concen: 0.186 ng
RT: 19.146 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:212 Resp: 358

Ion	Ratio	Lower	Upper
212	100		
106	15.0	11.8	17.6
104	9.3	7.3	10.9

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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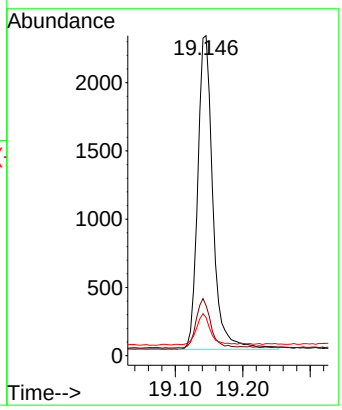
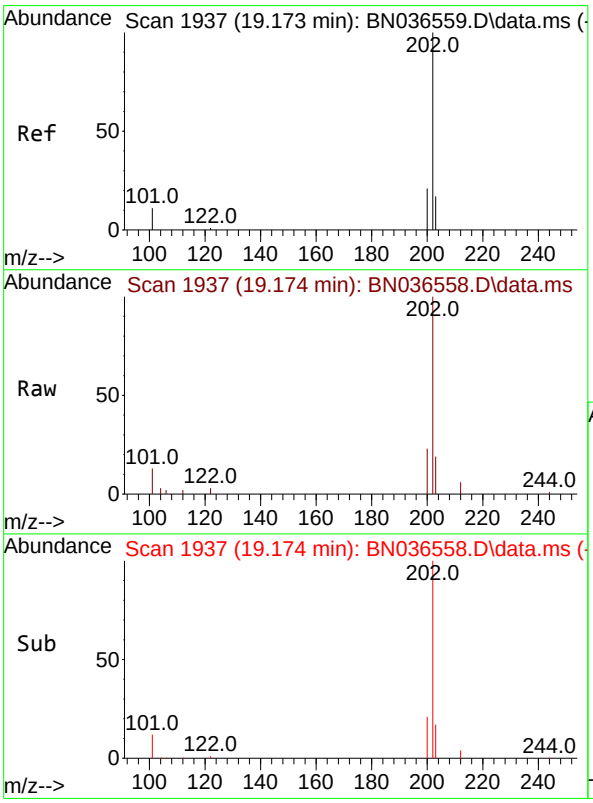
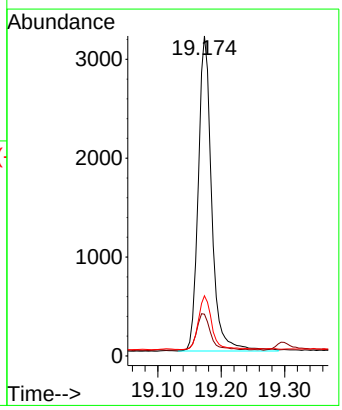


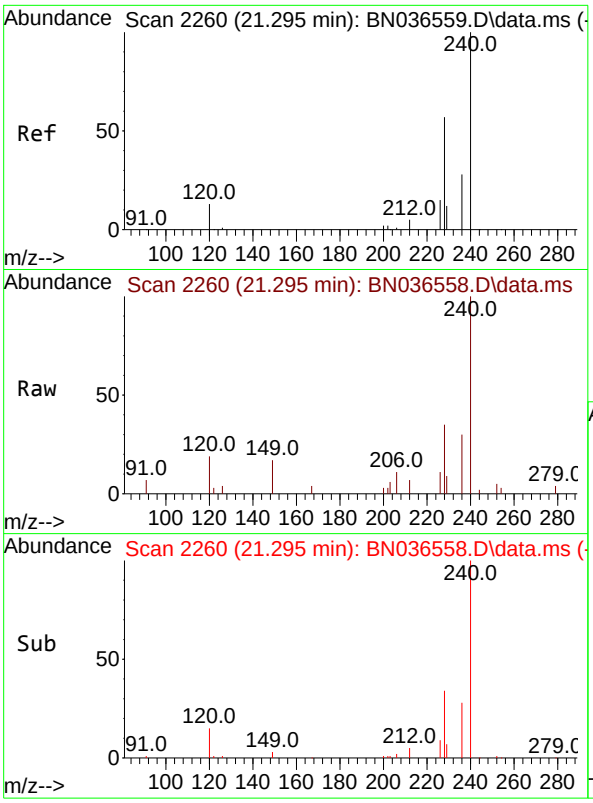


#28
Fluoranthene
Concen: 0.184 ng
RT: 19.174 min Scan# 1937
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:202 Resp: 4666

Ion	Ratio	Lower	Upper
202	100		
101	12.1	9.4	14.0
203	17.1	13.5	20.3

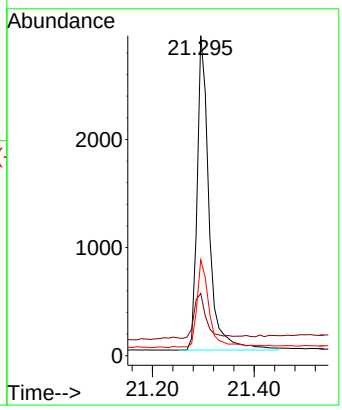




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:240 Resp: 473

Ion	Ratio	Lower	Upper
240	100		
120	19.5	14.6	22.0
236	29.9	24.1	36.1



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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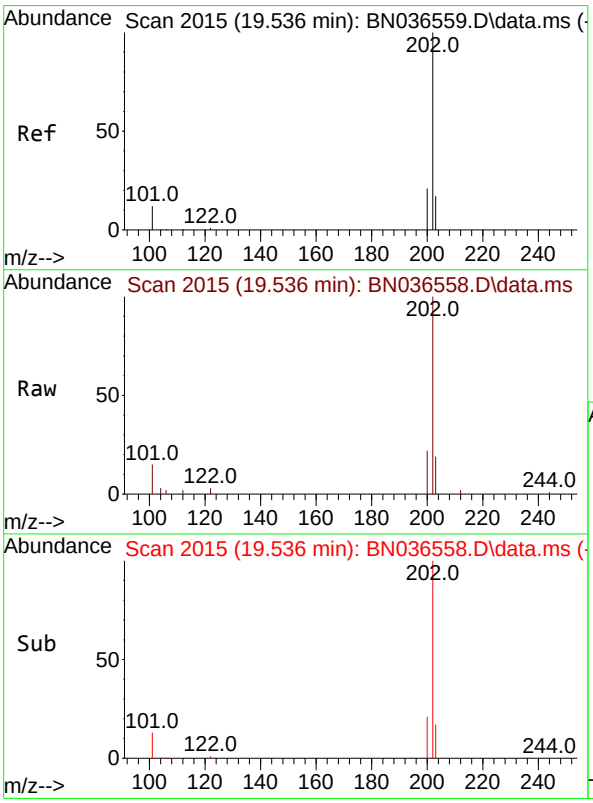
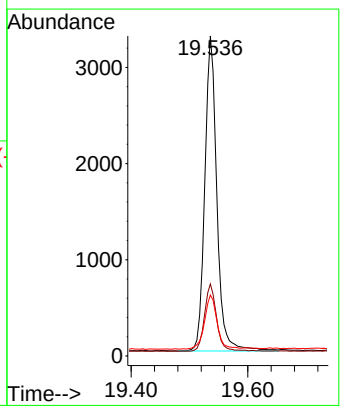
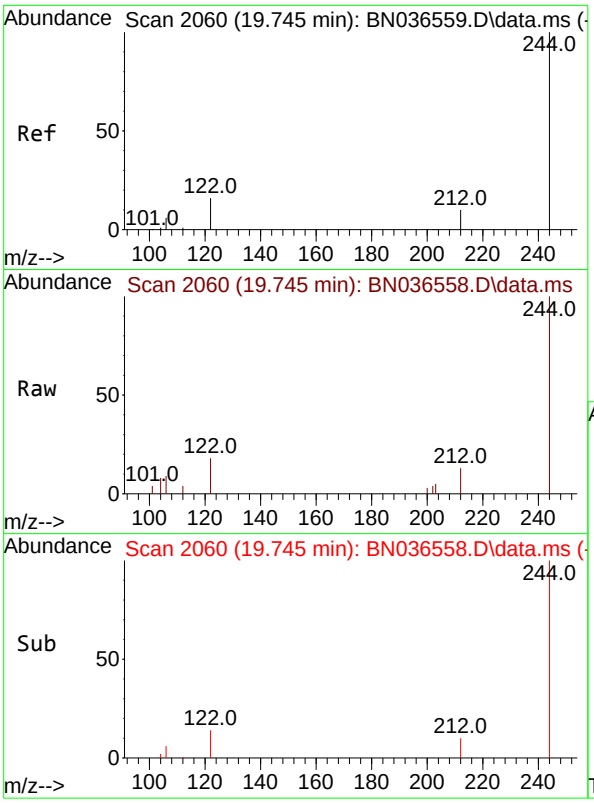


#30
Pyrene
Concen: 0.205 ng
RT: 19.536 min Scan# 2015
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:202 Resp: 4742

Ion	Ratio	Lower	Upper
202	100		
200	21.1	17.1	25.7
203	17.7	14.1	21.1

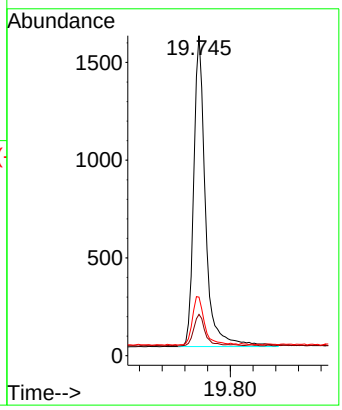




#31
Terphenyl-d14
Concen: 0.201 ng
RT: 19.745 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:244 Resp: 228

Ion	Ratio	Lower	Upper
244	100		
212	12.9	9.6	14.4
122	18.3	13.9	20.9



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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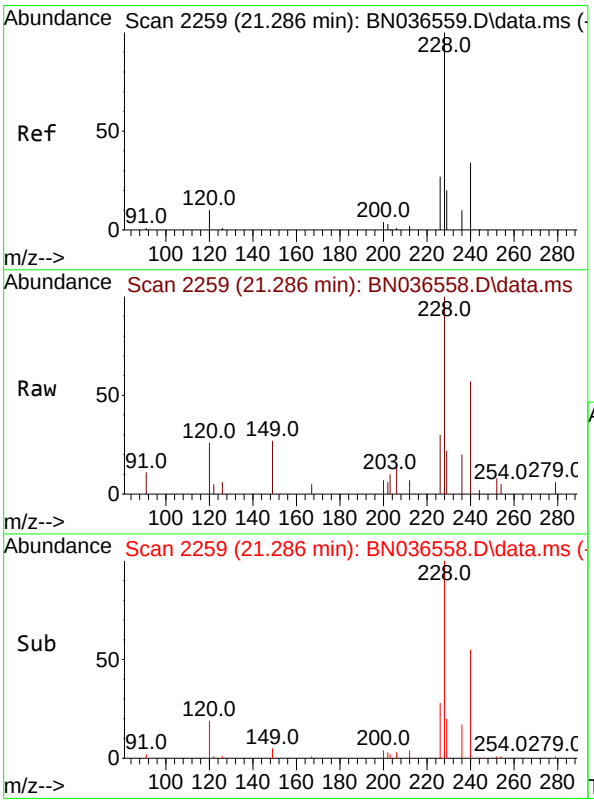
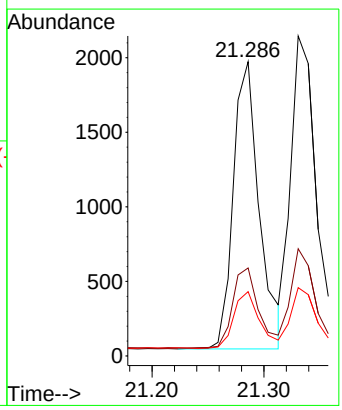
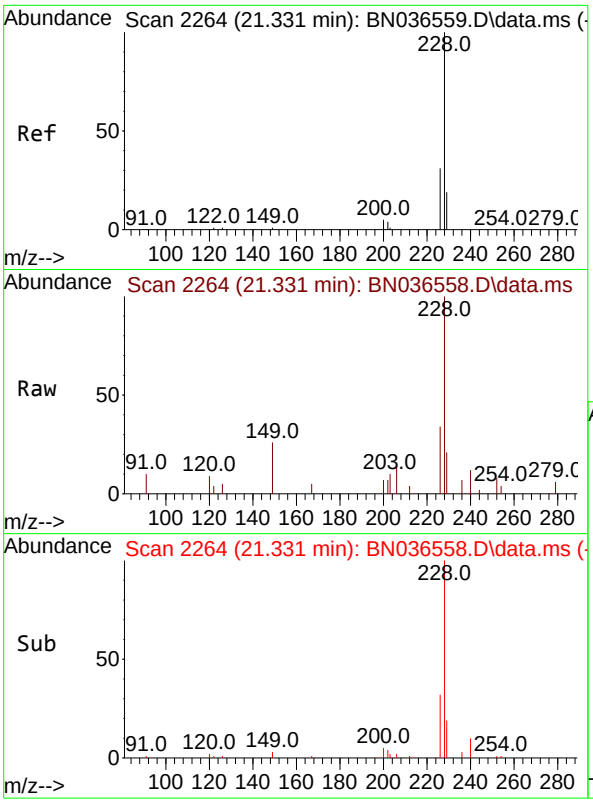


#32
Benzo(a)anthracene
Concen: 0.189 ng
RT: 21.286 min Scan# 2259
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:228 Resp: 3111

Ion	Ratio	Lower	Upper
228	100		
226	29.9	22.5	33.7
229	21.9	16.6	25.0

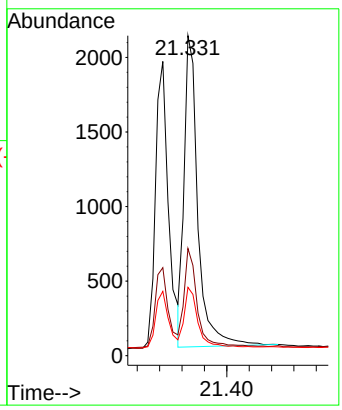




#33
Chrysene
Concen: 0.199 ng
RT: 21.331 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:228 Resp: 356

Ion	Ratio	Lower	Upper
228	100		
226	33.5	25.3	37.9
229	21.4	15.8	23.8



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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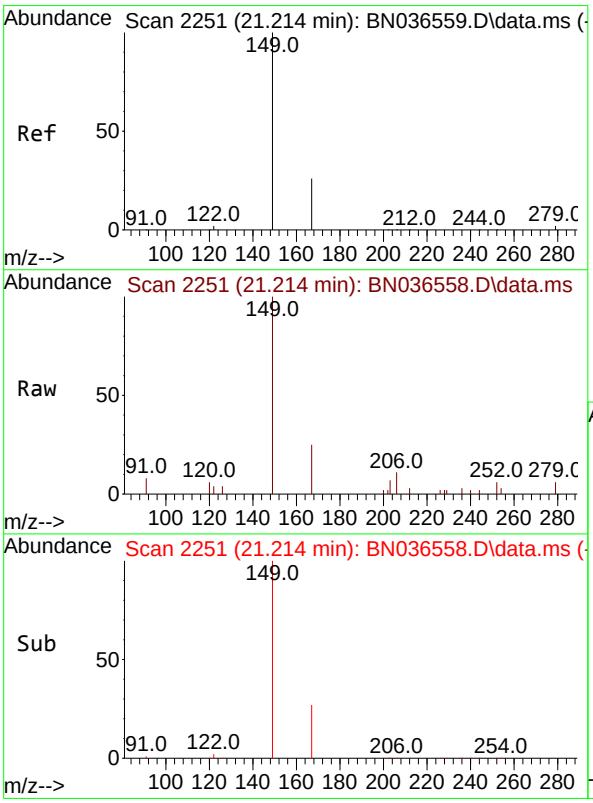
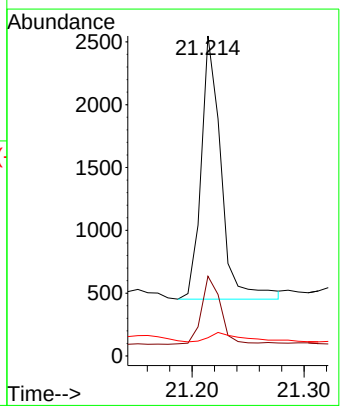
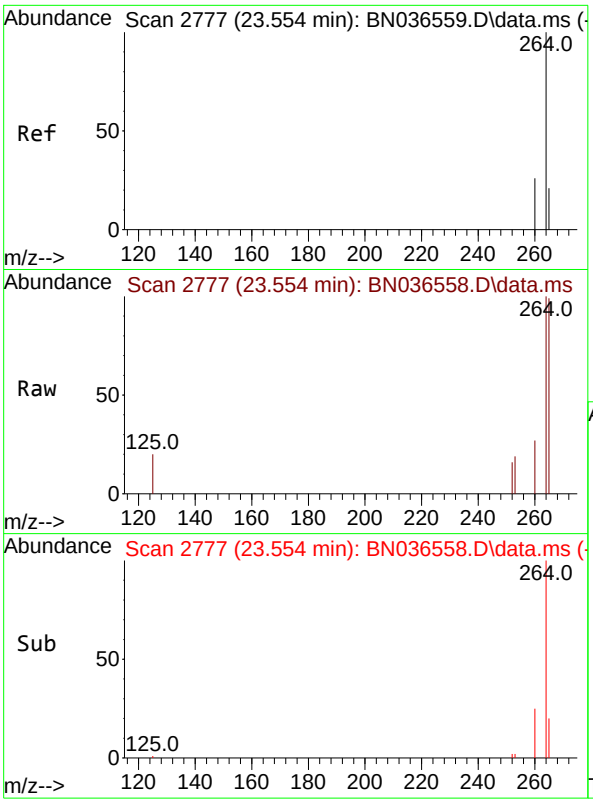


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.222 ng
RT: 21.214 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:149 Resp: 2601

Ion	Ratio	Lower	Upper
149	100		
167	24.7	20.7	31.1
279	5.7	3.6	5.4#

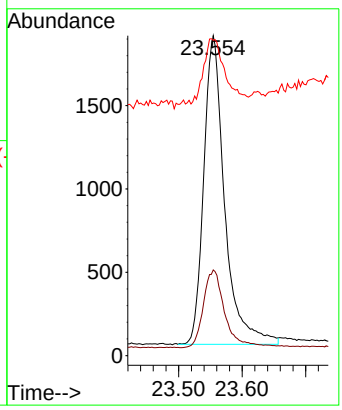




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.554 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:264 Resp: 424

Ion	Ratio	Lower	Upper
264	100		
260	26.8	22.6	33.8
265	98.5	88.1	132.1



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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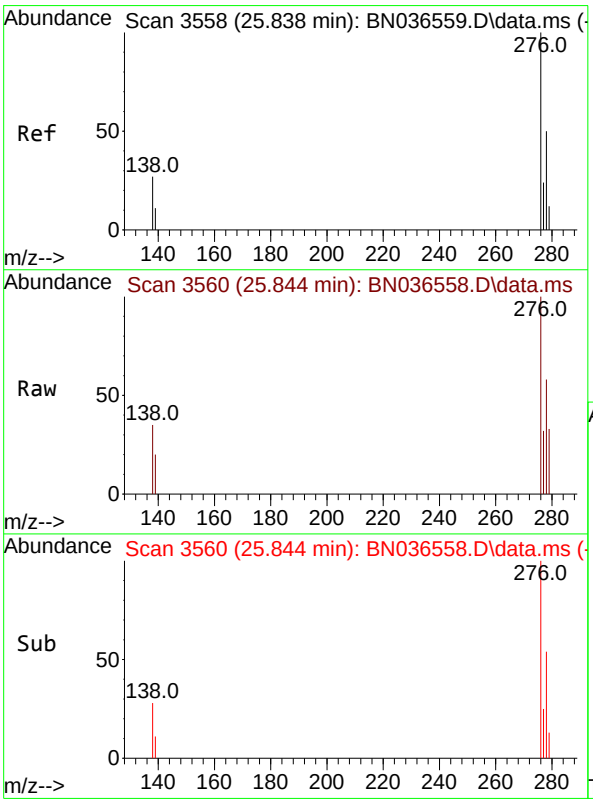
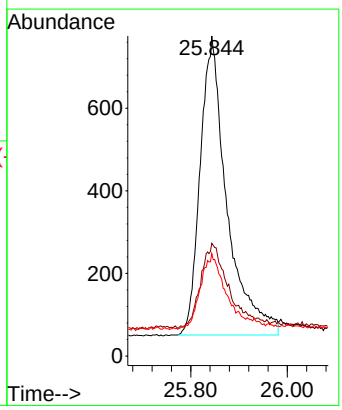
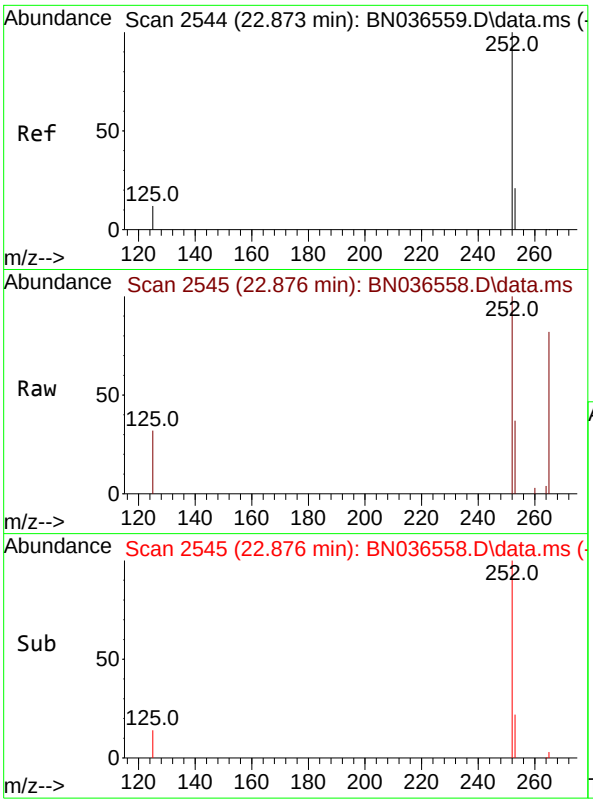


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.182 ng
RT: 25.844 min Scan# 3560
Delta R.T. 0.006 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:276 Resp: 2790

Ion	Ratio	Lower	Upper
276	100		
138	29.1	23.4	35.2
277	23.4	20.0	30.0





#37
Benzo(b)fluoranthene
Concen: 0.187 ng
RT: 22.876 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:252 Resp: 288

Ion	Ratio	Lower	Upper
252	100		
253	37.1	23.9	35.9#
125	32.2	17.4	26.2#

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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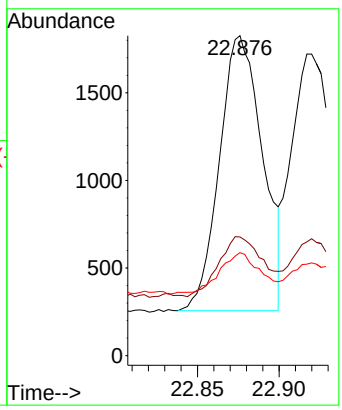
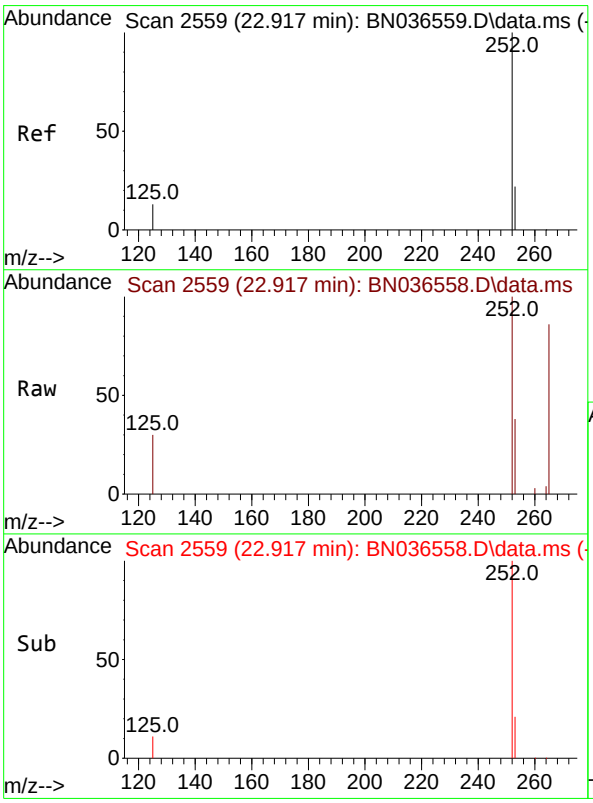
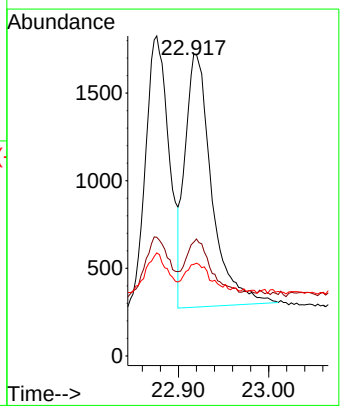


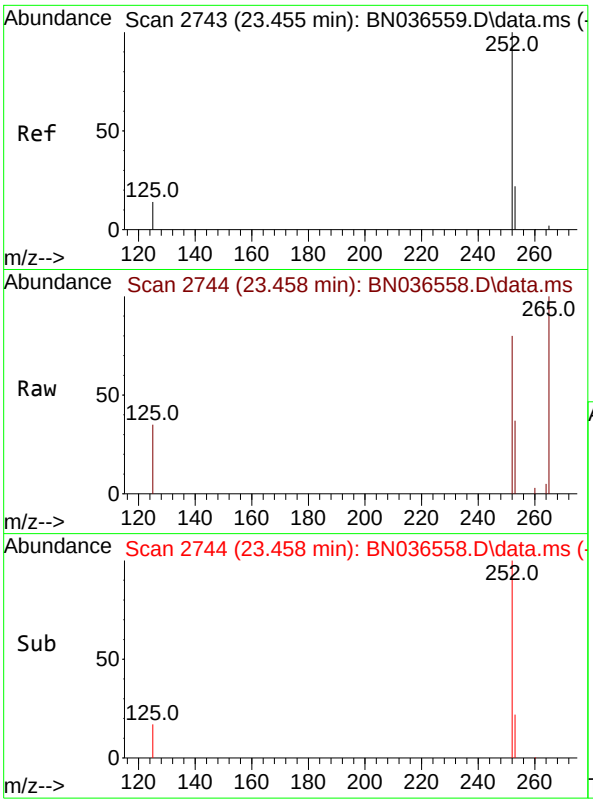


#38
Benzo(k)fluoranthene
Concen: 0.183 ng
RT: 22.917 min Scan# 2559
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:252 Resp: 2962

Ion	Ratio	Lower	Upper
252	100		
253	37.7	24.6	36.8#
125	30.3	17.8	26.8#

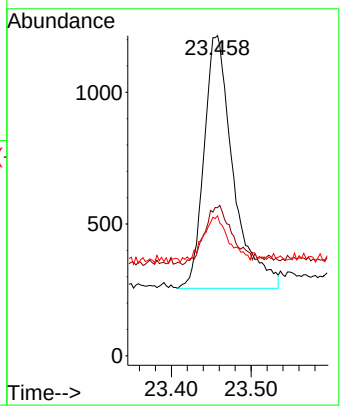




#39
Benzo(a)pyrene
Concen: 0.188 ng
RT: 23.458 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:252 Resp: 244

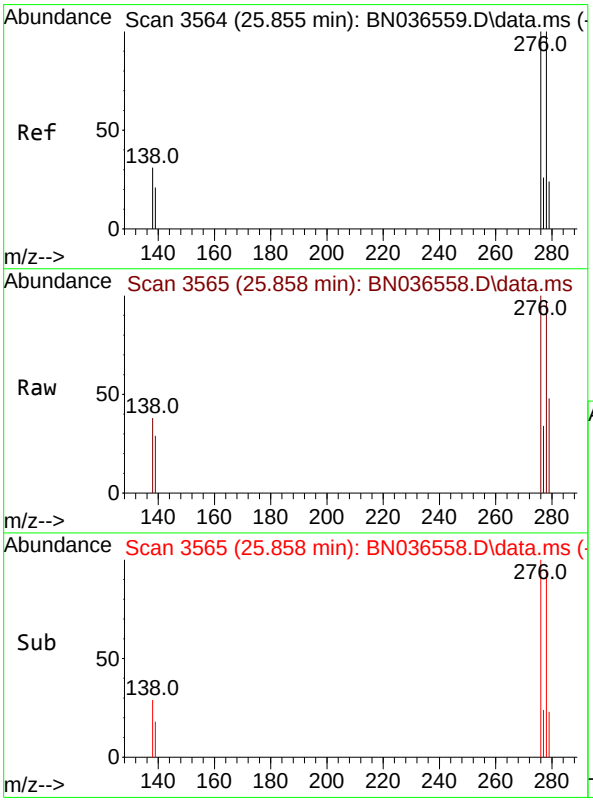
Ion	Ratio	Lower	Upper
252	100		
253	46.3	27.8	41.8#
125	43.7	22.7	34.1#



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

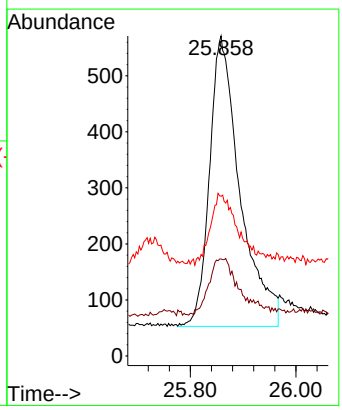
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

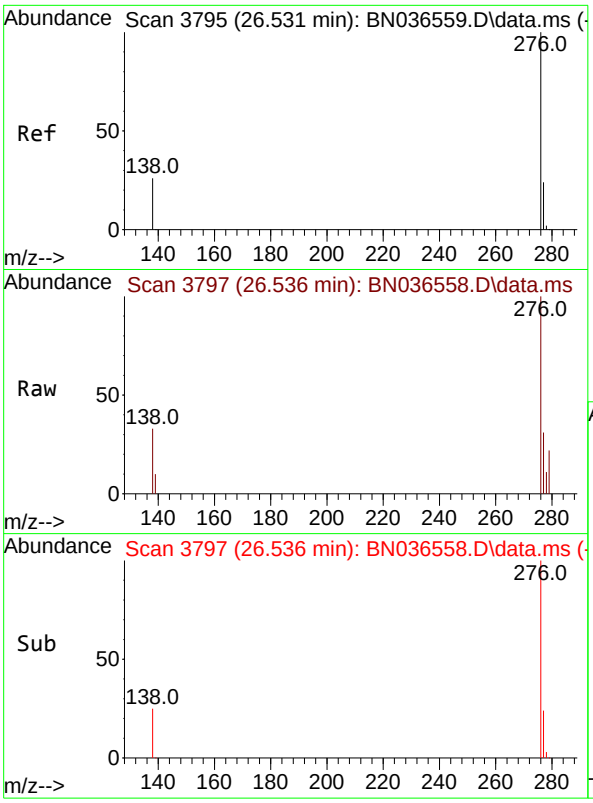


#40
Dibenzo(a,h)anthracene
Concen: 0.175 ng
RT: 25.858 min Scan# 3565
Delta R.T. 0.003 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:278 Resp: 2080

Ion	Ratio	Lower	Upper
278	100		
139	30.3	20.8	31.2
279	49.9	28.8	43.2#

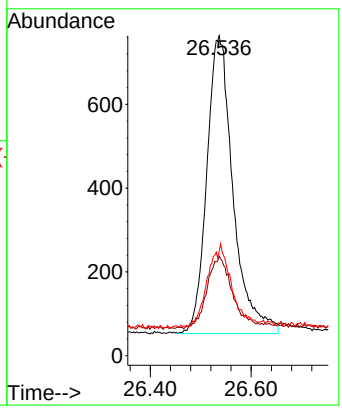




#41
Benzo(g,h,i)perylene
Concen: 0.189 ng
RT: 26.536 min Scan# 3
Delta R.T. 0.006 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:276 Resp: 257

Ion	Ratio	Lower	Upper
276	100		
277	31.2	22.2	33.4
138	32.6	24.1	36.1



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036559.D
Acq On : 10 Mar 2025 12:54
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Quant Time: Mar 10 16:01:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:54:23 2025
Response via : Initial Calibration

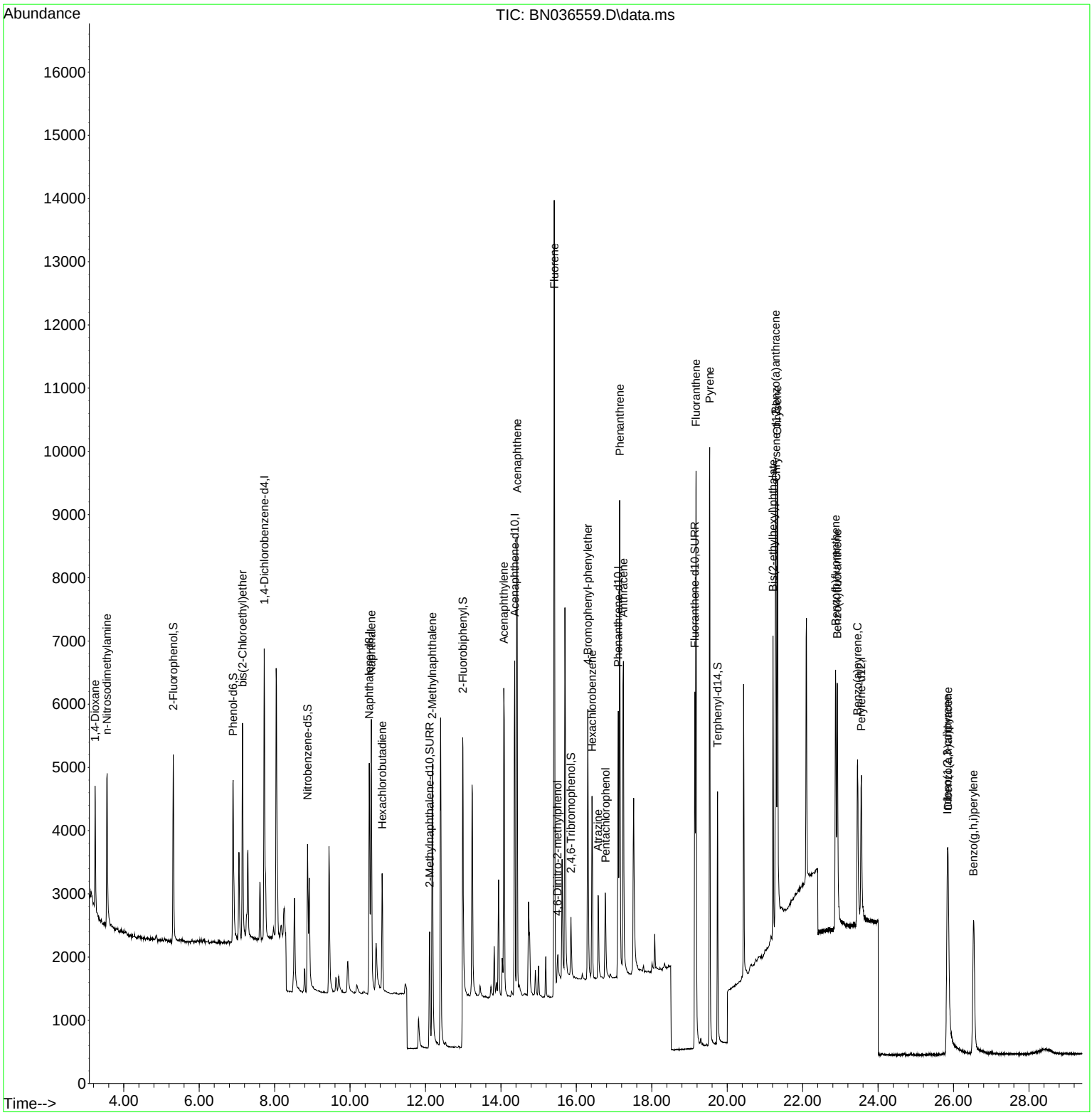
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.724	152	2207	0.400	ng		0.00
7) Naphthalene-d8	10.509	136	5091	0.400	ng		0.00
13) Acenaphthene-d10	14.366	164	3026	0.400	ng		0.00
19) Phenanthrene-d10	17.111	188	6005	0.400	ng		0.00
29) Chrysene-d12	21.295	240	4110	0.400	ng		0.00
35) Perylene-d12	23.554	264	3539	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.312	112	2178	0.423	ng		0.00
5) Phenol-d6	6.901	99	2489	0.392	ng		0.00
8) Nitrobenzene-d5	8.875	82	2113	0.382	ng		0.00
11) 2-Methylnaphthalene-d10	12.111	152	3085	0.407	ng		0.00
14) 2,4,6-Tribromophenol	15.858	330	567	0.413	ng		0.00
15) 2-Fluorobiphenyl	12.988	172	7257	0.412	ng		0.00
27) Fluoranthene-d10	19.141	212	6699	0.435	ng		0.00
31) Terphenyl-d14	19.745	244	4226	0.429	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.239	88	1099	0.449	ng		100
3) n-Nitrosodimethylamine	3.550	42	2063	0.417	ng		100
6) bis(2-Chloroethyl)ether	7.154	93	2610	0.397	ng		100
9) Naphthalene	10.562	128	6139	0.410	ng		100
10) Hexachlorobutadiene	10.850	225	1498	0.425	ng	#	100
12) 2-Methylnaphthalene	12.182	142	3897	0.409	ng		100
16) Acenaphthylene	14.077	152	5865	0.411	ng		100
17) Acenaphthene	14.430	154	3877	0.415	ng		100
18) Fluorene	15.414	166	5338	0.422	ng		100
20) 4,6-Dinitro-2-methylph...	15.499	198	462	0.447	ng		100
21) 4-Bromophenyl-phenylether	16.304	248	1644	0.437	ng		100
22) Hexachlorobenzene	16.416	284	2018	0.444	ng		100
23) Atrazine	16.577	200	1279	0.424	ng		100
24) Pentachlorophenol	16.776	266	821	0.396	ng		100
25) Phenanthrene	17.148	178	7786	0.432	ng		100
26) Anthracene	17.248	178	6886	0.424	ng		100
28) Fluoranthene	19.173	202	8717	0.431	ng		100
30) Pyrene	19.536	202	8759	0.436	ng		100
32) Benzo(a)anthracene	21.286	228	5908	0.413	ng		100
33) Chrysene	21.331	228	6617	0.424	ng		100
34) Bis(2-ethylhexyl)phtha...	21.214	149	4291	0.422	ng		100
36) Indeno(1,2,3-cd)pyrene	25.838	276	5470	0.428	ng		100
37) Benzo(b)fluoranthene	22.873	252	5475	0.425	ng		100
38) Benzo(k)fluoranthene	22.917	252	5732	0.424	ng		100
39) Benzo(a)pyrene	23.455	252	4612	0.425	ng		100
40) Dibenzo(a,h)anthracene	25.855	278	4117	0.414	ng		100
41) Benzo(g,h,i)perylene	26.531	276	4891	0.430	ng		100

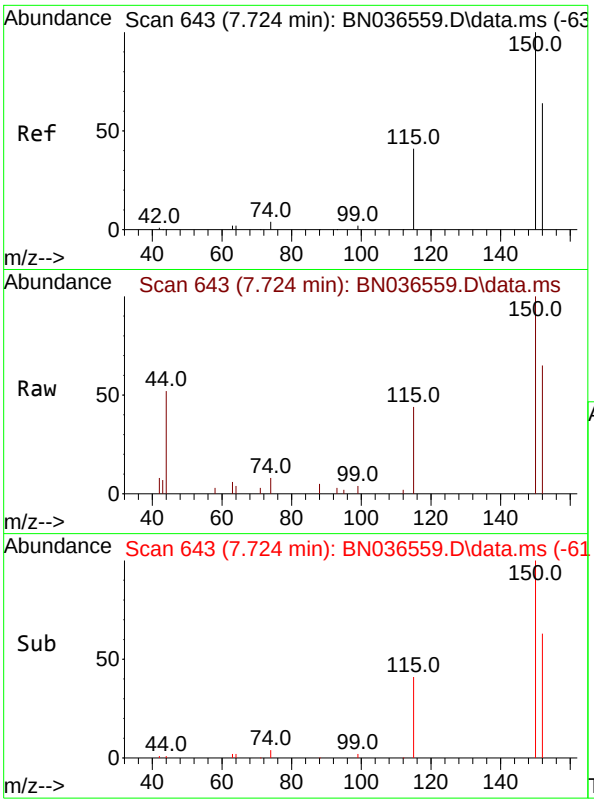
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036559.D
Acq On : 10 Mar 2025 12:54
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Quant Time: Mar 10 16:01:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:54:23 2025
Response via : Initial Calibration



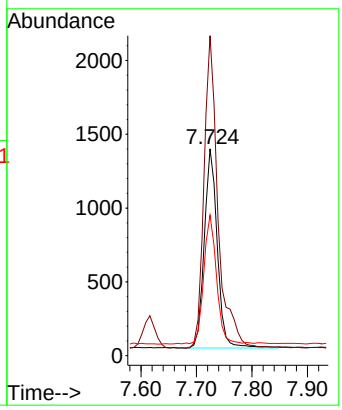


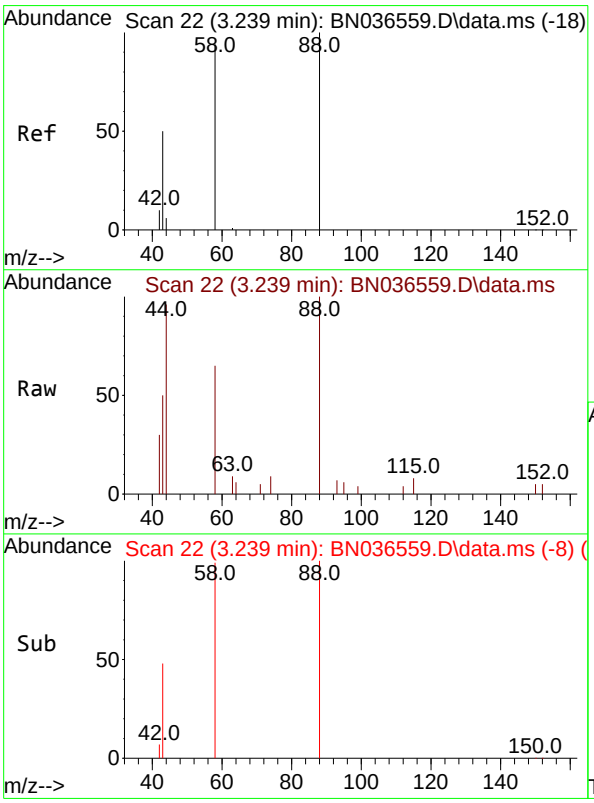
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:152 Resp: 2207

Ion	Ratio	Lower	Upper
152	100		
150	154.6	123.7	185.5
115	67.9	54.3	81.5

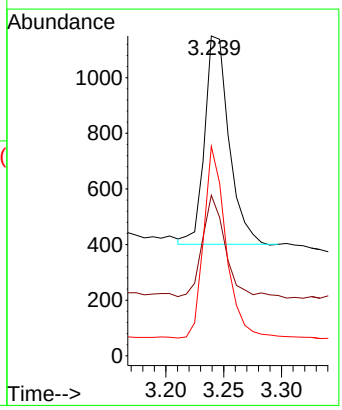


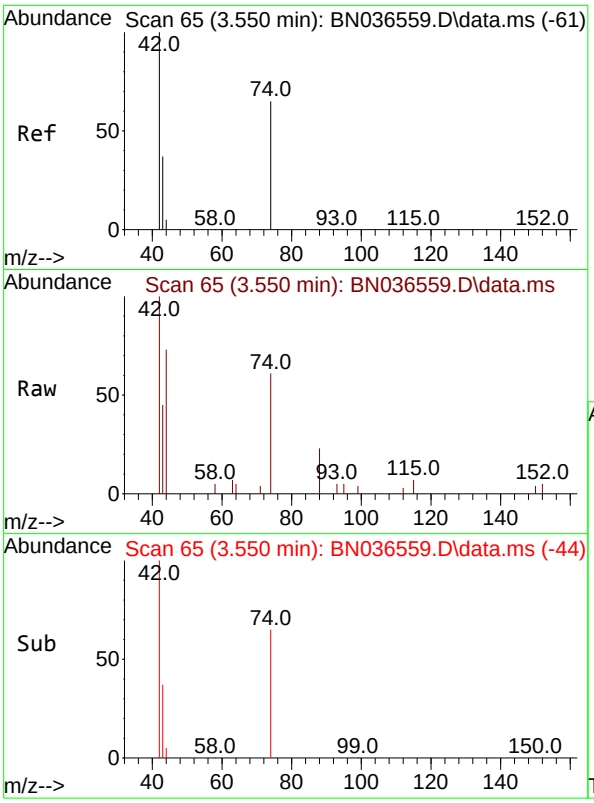


#2
1,4-Dioxane
Concen: 0.449 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion: 88 Resp: 1099

Ion	Ratio	Lower	Upper
88	100		
43	47.3	37.8	56.8
58	84.3	67.4	101.2



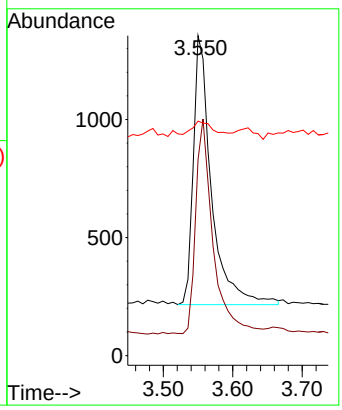


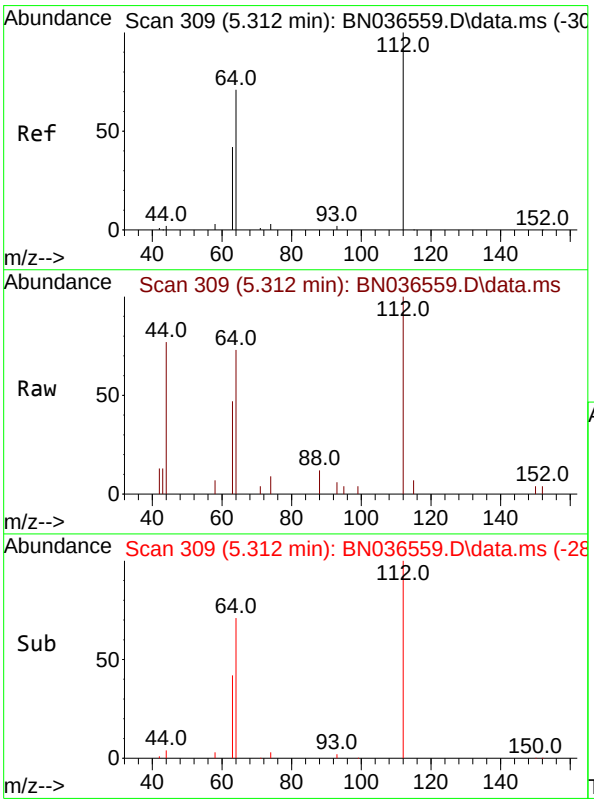
#3
n-Nitrosodimethylamine
Concen: 0.417 ng
RT: 3.550 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion: 42 Resp: 2063

Ion	Ratio	Lower	Upper
42	100		
74	75.7	60.6	90.8
44	7.9	6.3	9.5

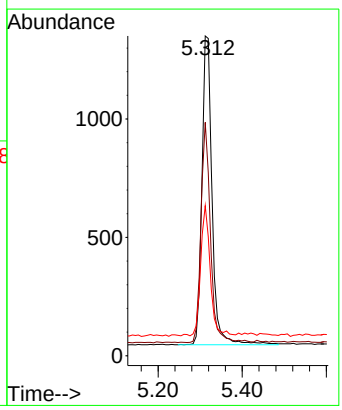


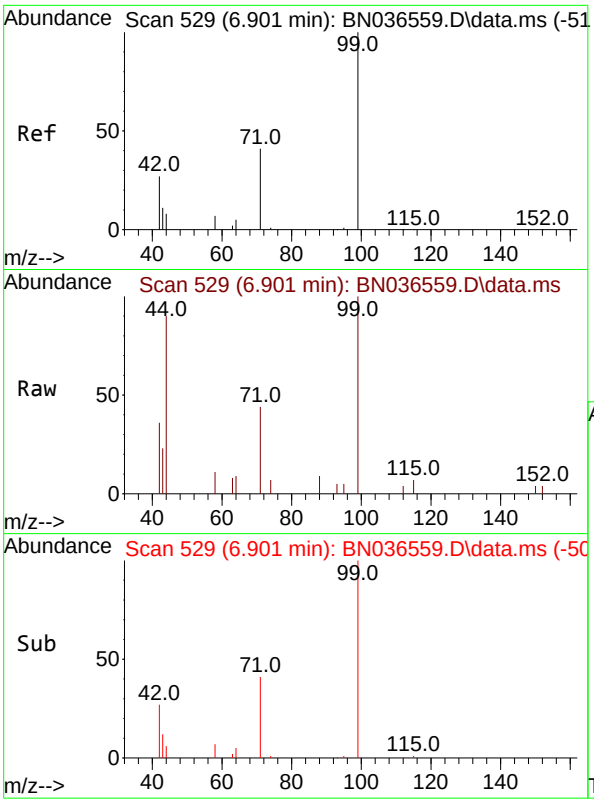


#4
2-Fluorophenol
Concen: 0.423 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:112 Resp: 2178

Ion	Ratio	Lower	Upper
112	100		
64	66.4	53.1	79.7
63	39.8	31.8	47.8



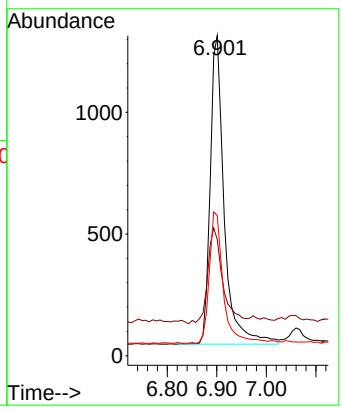


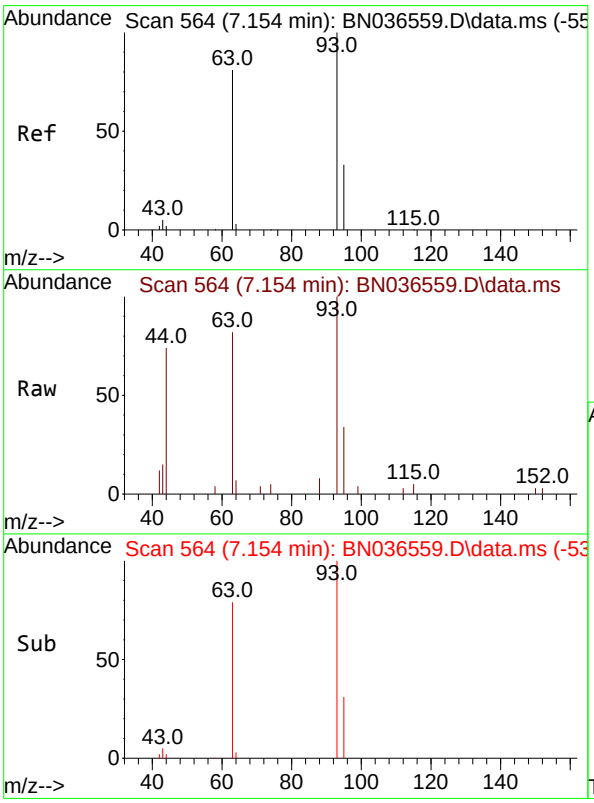
#5
Phenol-d6
Concen: 0.392 ng
RT: 6.901 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion: 99 Resp: 2489

Ion	Ratio	Lower	Upper
99	100		
42	33.1	26.5	39.7
71	42.6	34.1	51.1

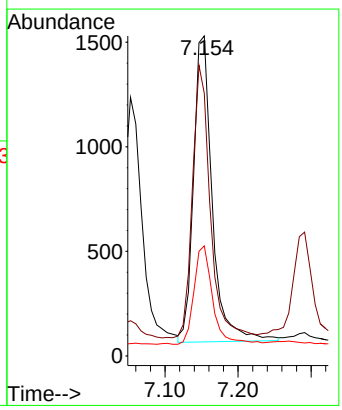


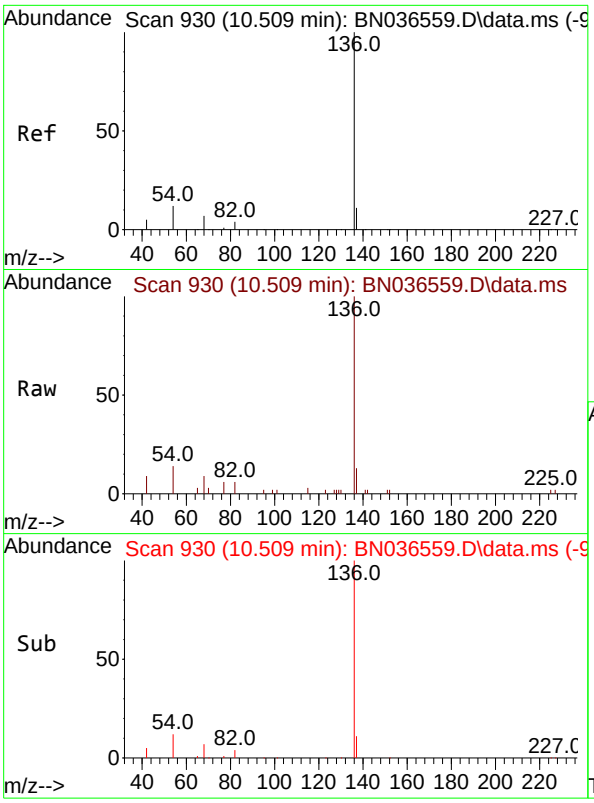


#6
bis(2-Chloroethyl)ether
Concen: 0.397 ng
RT: 7.154 min Scan# 564
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion: 93 Resp: 2610

Ion	Ratio	Lower	Upper
93	100		
63	84.6	67.7	101.5
95	32.0	25.6	38.4



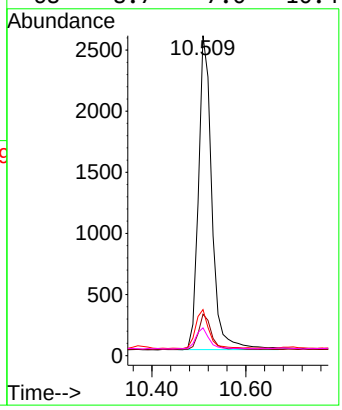


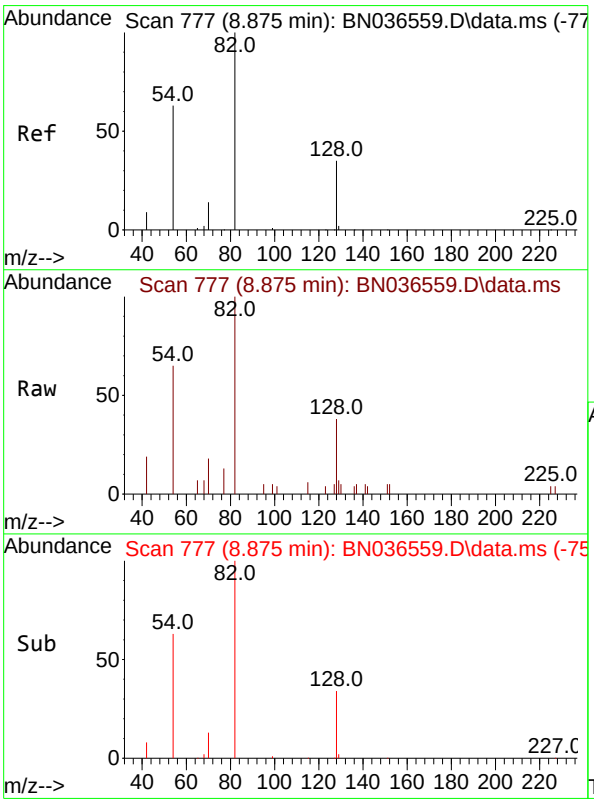
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:136 Resp: 5091

Ion	Ratio	Lower	Upper
136	100		
137	12.9	10.3	15.5
54	14.4	11.5	17.3
68	8.7	7.0	10.4

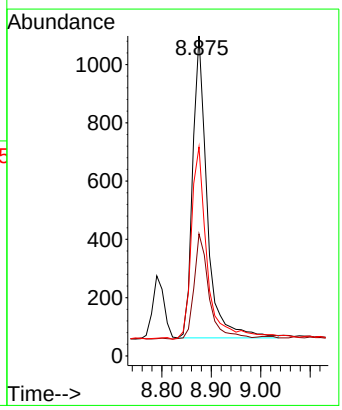


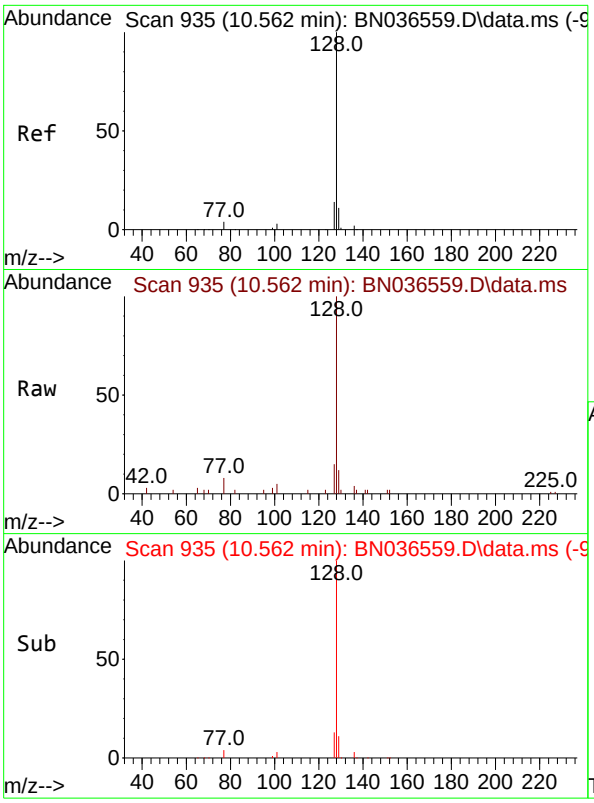


#8
Nitrobenzene-d5
Concen: 0.382 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion: 82 Resp: 2113

Ion	Ratio	Lower	Upper
82	100		
128	38.2	30.6	45.8
54	65.3	52.2	78.4



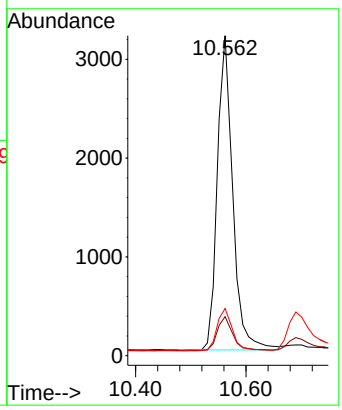


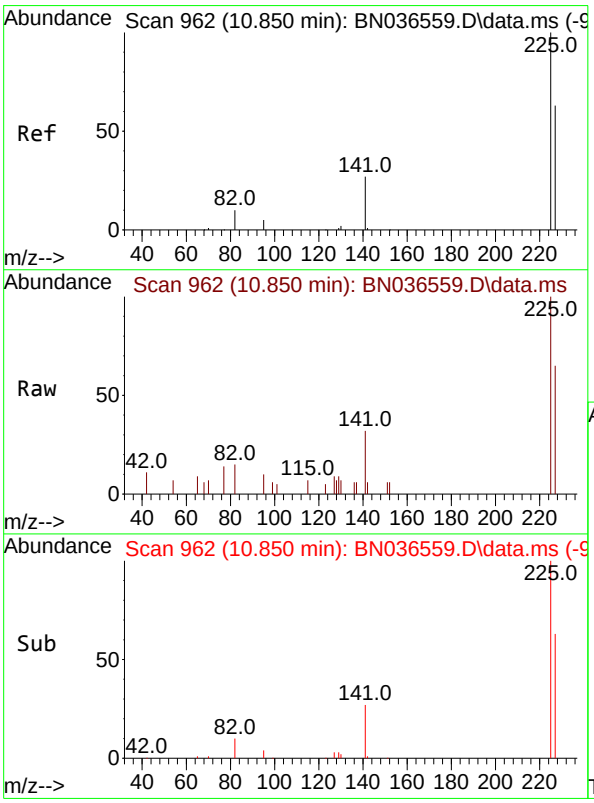
#9
Naphthalene
Concen: 0.410 ng
RT: 10.562 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:128 Resp: 6139

Ion	Ratio	Lower	Upper
128	100		
129	12.2	9.8	14.6
127	14.8	11.8	17.8

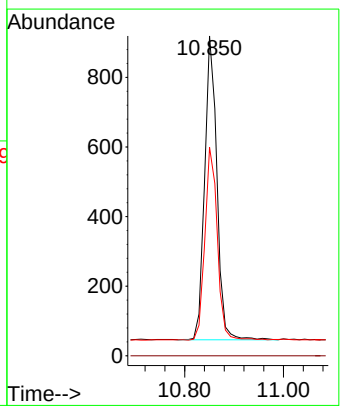


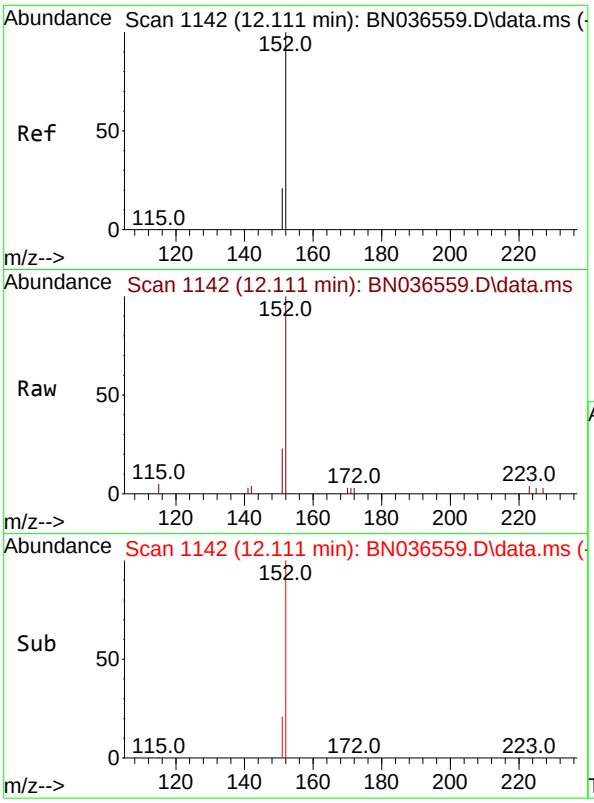


#10
Hexachlorobutadiene
Concen: 0.425 ng
RT: 10.850 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:225 Resp: 1498

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.8	51.8	77.8



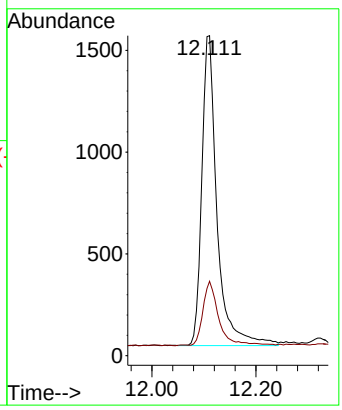


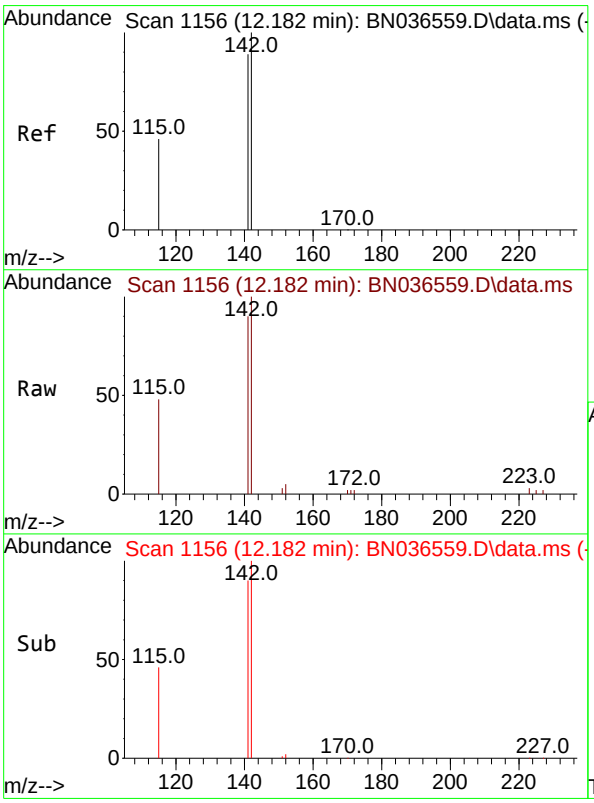
#11
2-Methylnaphthalene-d10
Concen: 0.407 ng
RT: 12.111 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:152 Resp: 3085

Ion	Ratio	Lower	Upper
152	100		
151	21.3	17.0	25.6

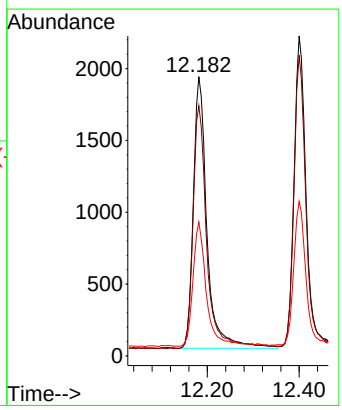


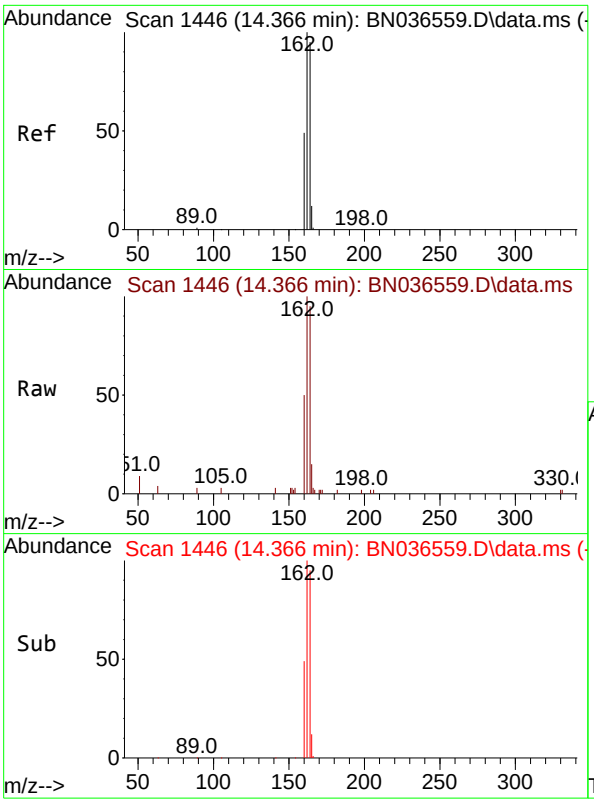


#12
2-Methylnaphthalene
Concen: 0.409 ng
RT: 12.182 min Scan# 1156
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:142 Resp: 3897

Ion	Ratio	Lower	Upper
142	100		
141	89.6	71.7	107.5
115	47.9	38.3	57.5



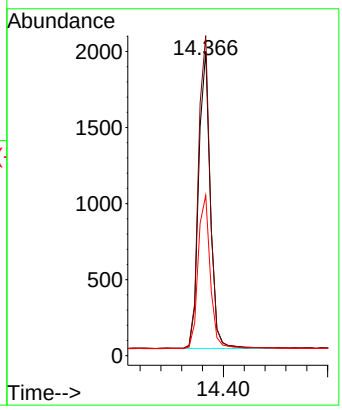


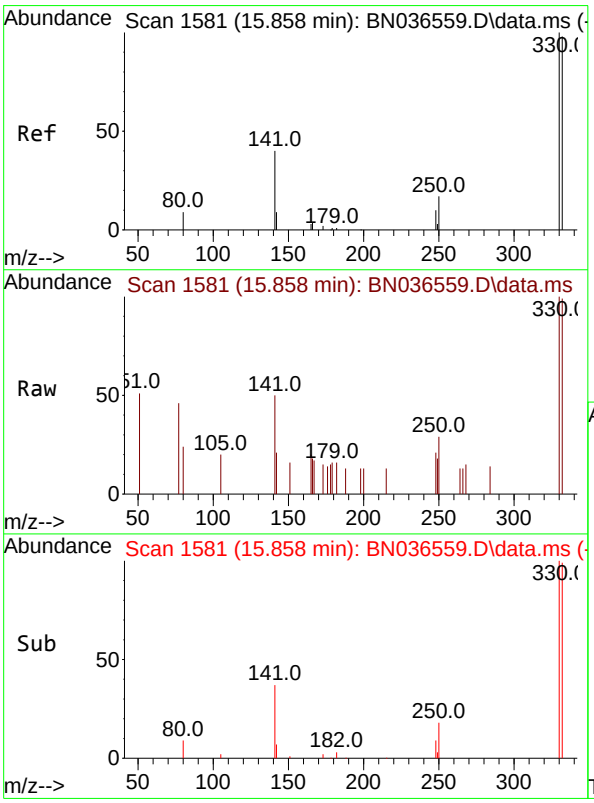
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:164 Resp: 3026

Ion	Ratio	Lower	Upper
164	100		
162	105.2	84.2	126.2
160	52.7	42.2	63.2

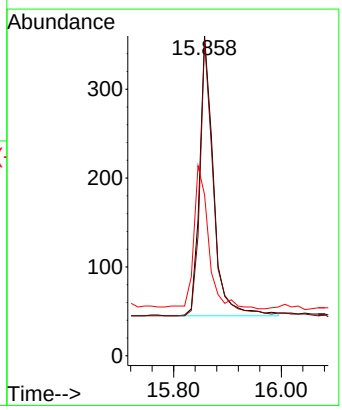


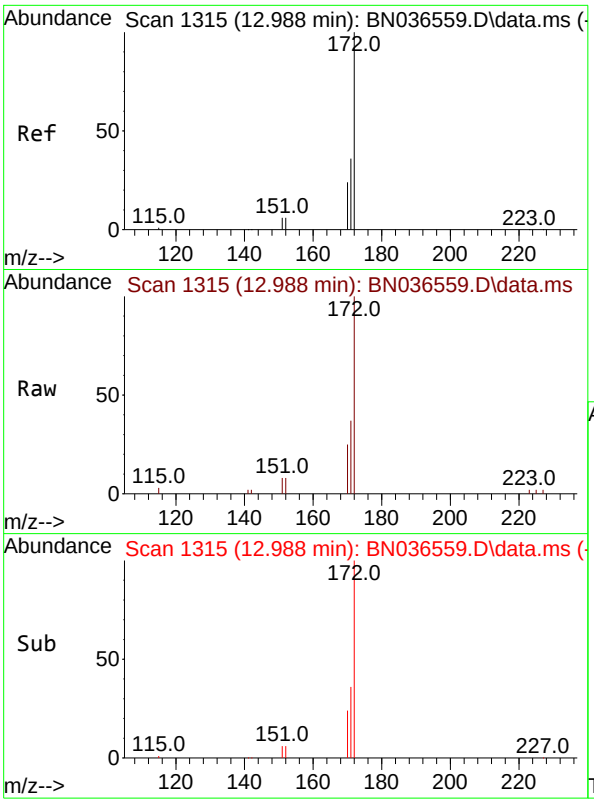


#14
2,4,6-Tribromophenol
Concen: 0.413 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:330 Resp: 567

Ion	Ratio	Lower	Upper
330	100		
332	94.0	75.2	112.8
141	54.3	43.4	65.2



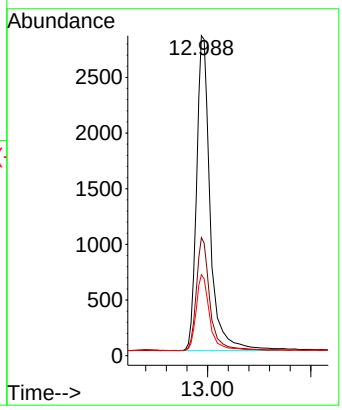


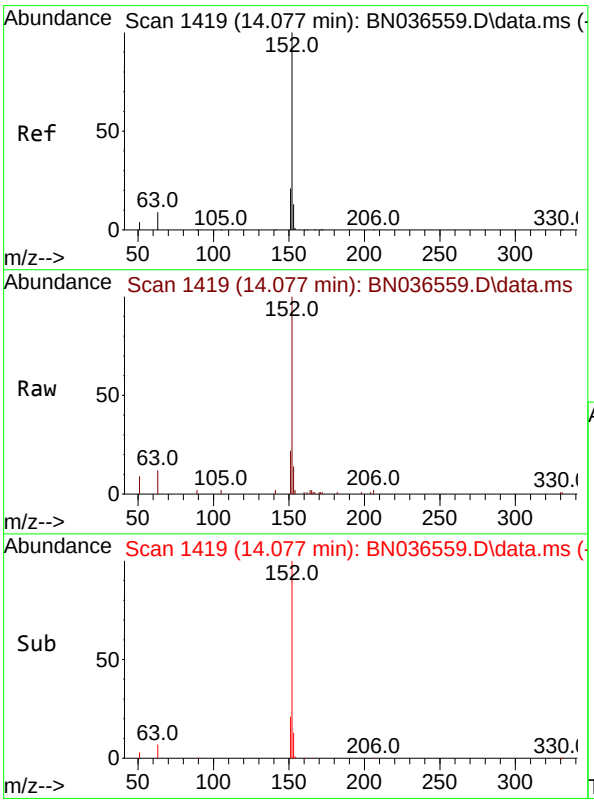
#15
2-Fluorobiphenyl
Concen: 0.412 ng
RT: 12.988 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:172 Resp: 7257

Ion	Ratio	Lower	Upper
172	100		
171	36.9	29.5	44.3
170	25.3	20.2	30.4

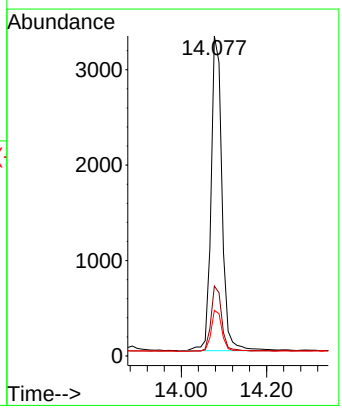


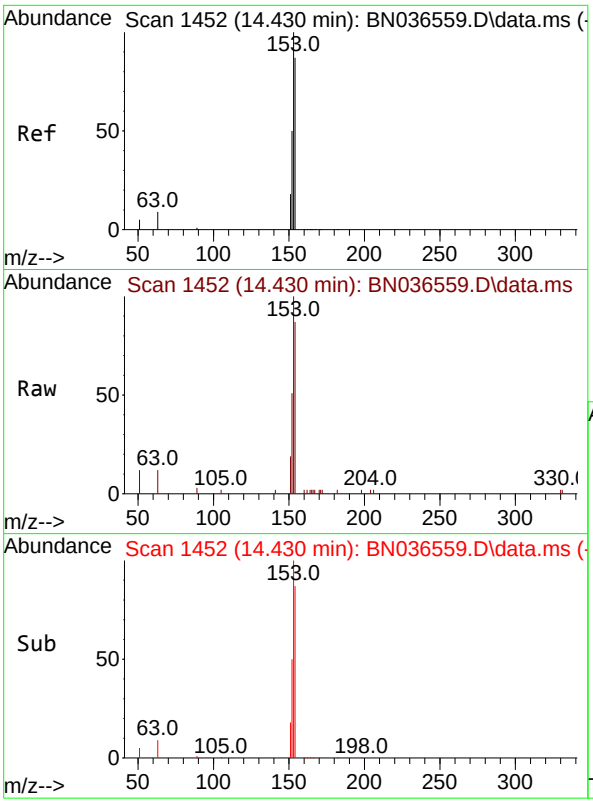


#16
Acenaphthylene
Concen: 0.411 ng
RT: 14.077 min Scan# 1419
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:152 Resp: 5865

Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.2	24.4
153	13.2	10.6	15.8



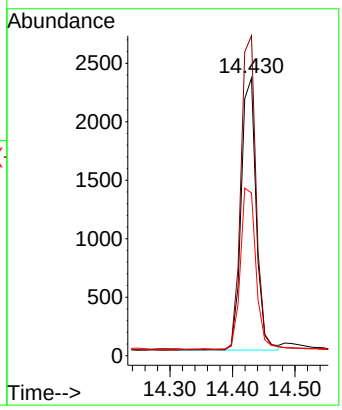


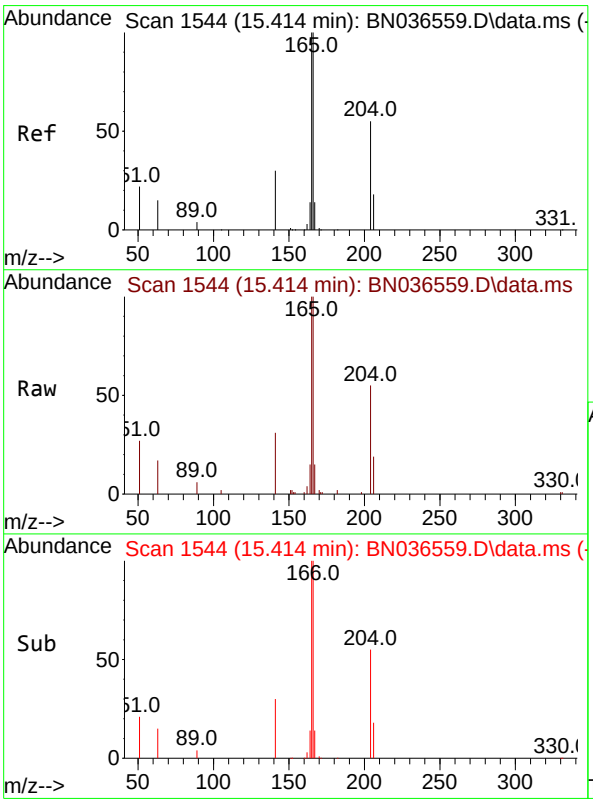
#17
Acenaphthene
Concen: 0.415 ng
RT: 14.430 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:154 Resp: 3877

Ion	Ratio	Lower	Upper
154	100		
153	117.6	94.1	141.1
152	62.2	49.8	74.6

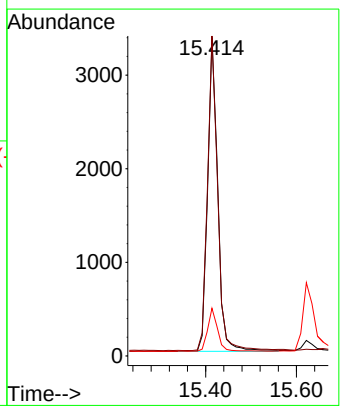


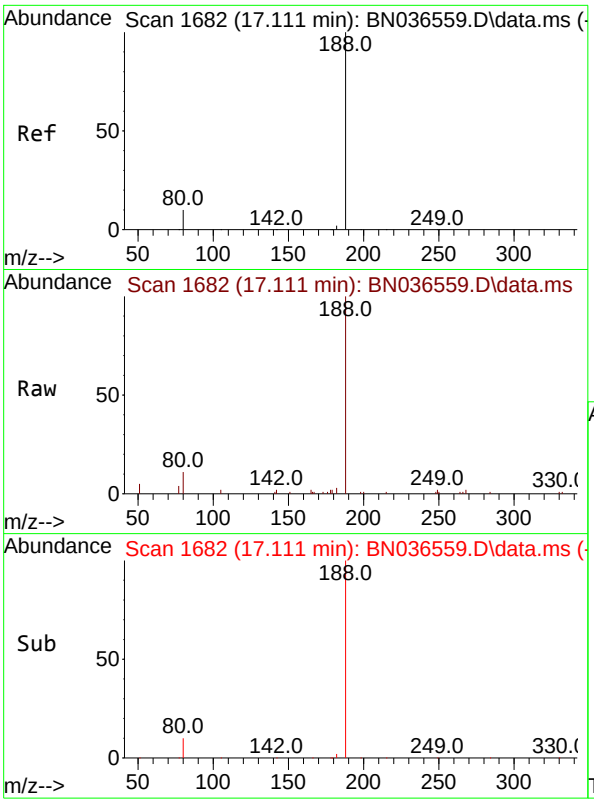


#18
Fluorene
Concen: 0.422 ng
RT: 15.414 min Scan# 1544
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:166 Resp: 5338

Ion	Ratio	Lower	Upper
166	100		
165	99.8	79.8	119.8
167	13.2	10.6	15.8



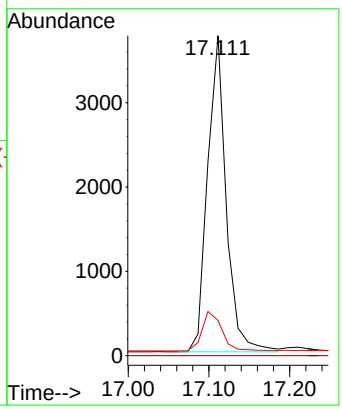


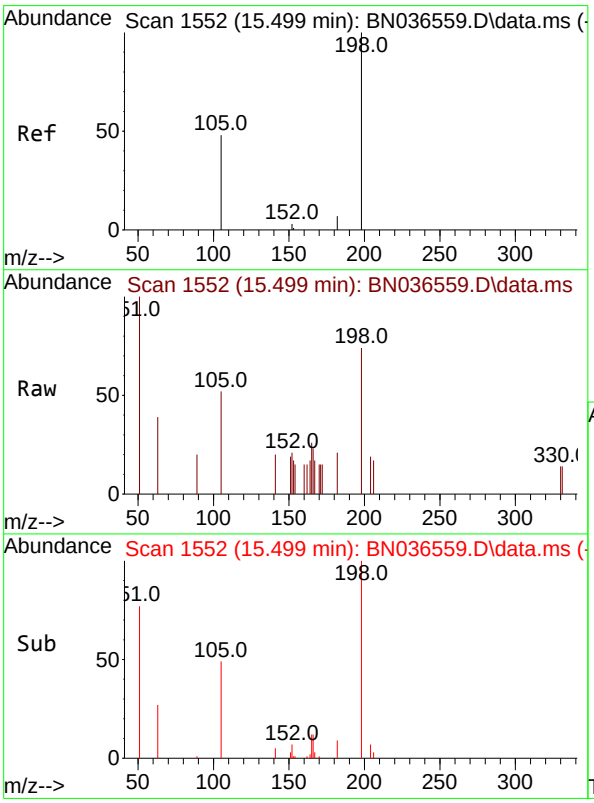
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:188 Resp: 6005

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.0	8.8	13.2

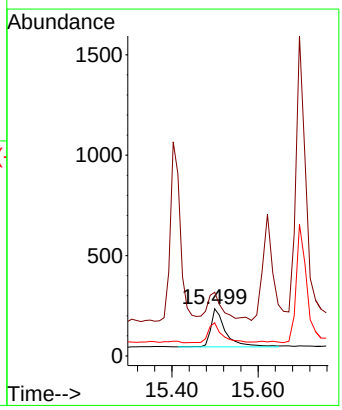


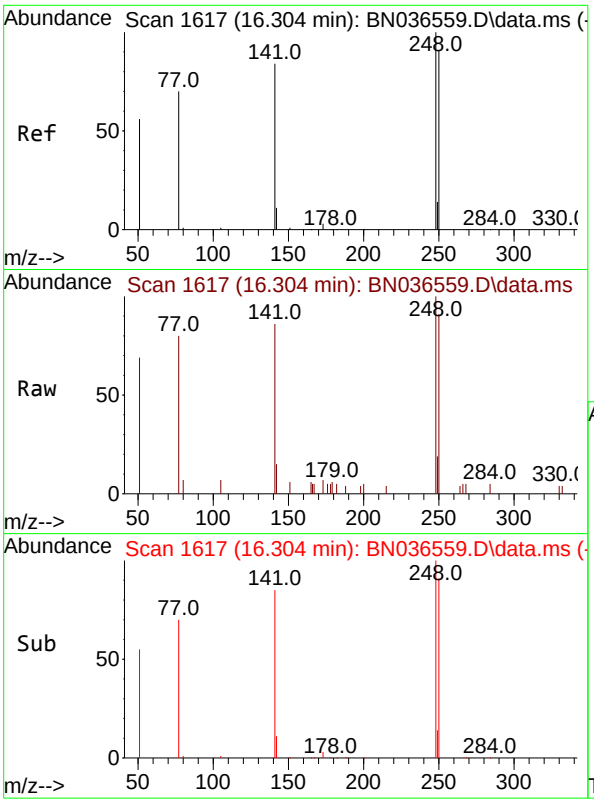


#20
4,6-Dinitro-2-methylphenol
Concen: 0.447 ng
RT: 15.499 min Scan# 1552
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:198 Resp: 462

Ion	Ratio	Lower	Upper
198	100		
51	134.9	107.9	161.9
105	70.2	56.2	84.2



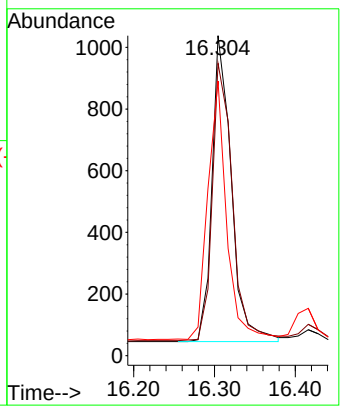


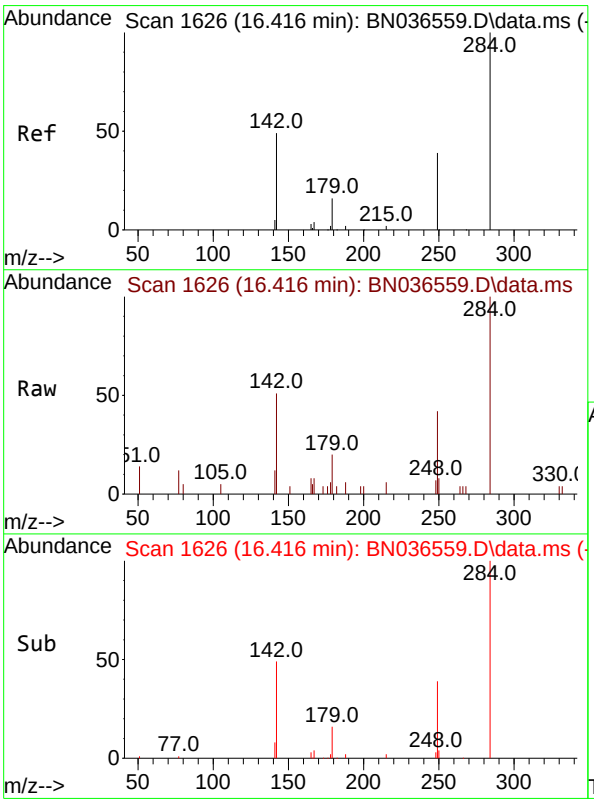
#21
4-Bromophenyl-phenylether
Concen: 0.437 ng
RT: 16.304 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:248 Resp: 1644

Ion	Ratio	Lower	Upper
248	100		
250	91.3	73.0	109.6
141	85.8	68.6	103.0

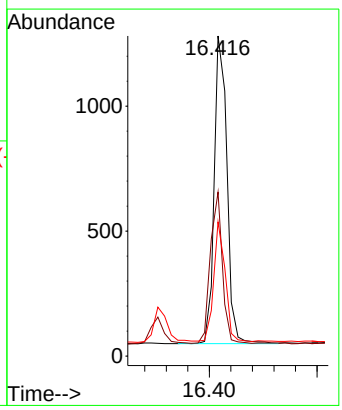


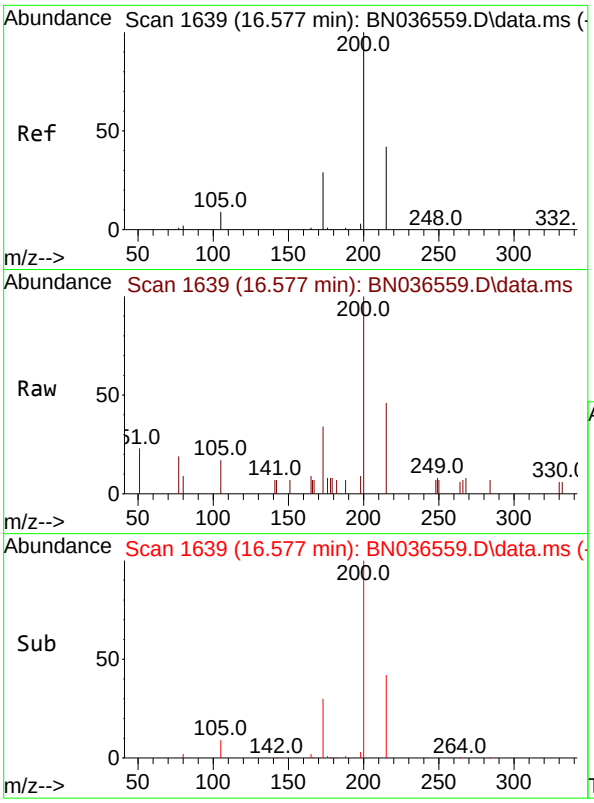


#22
Hexachlorobenzene
Concen: 0.444 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:284 Resp: 2018

Ion	Ratio	Lower	Upper
284	100		
142	46.2	37.0	55.4
249	35.1	28.1	42.1



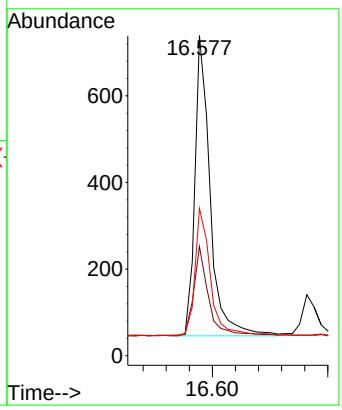


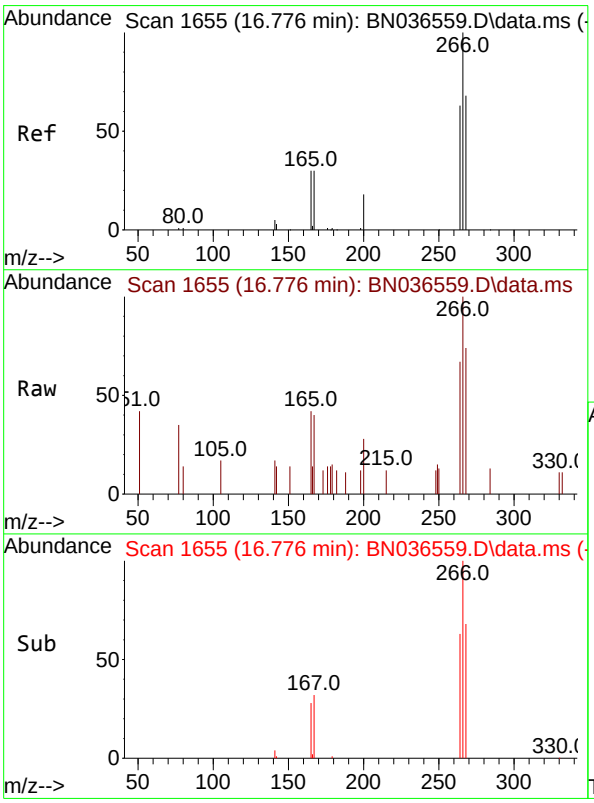
#23
Atrazine
Concen: 0.424 ng
RT: 16.577 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:200 Resp: 1279

Ion	Ratio	Lower	Upper
200	100		
173	34.1	27.3	40.9
215	46.0	36.8	55.2

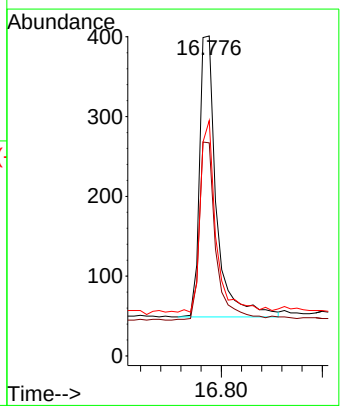


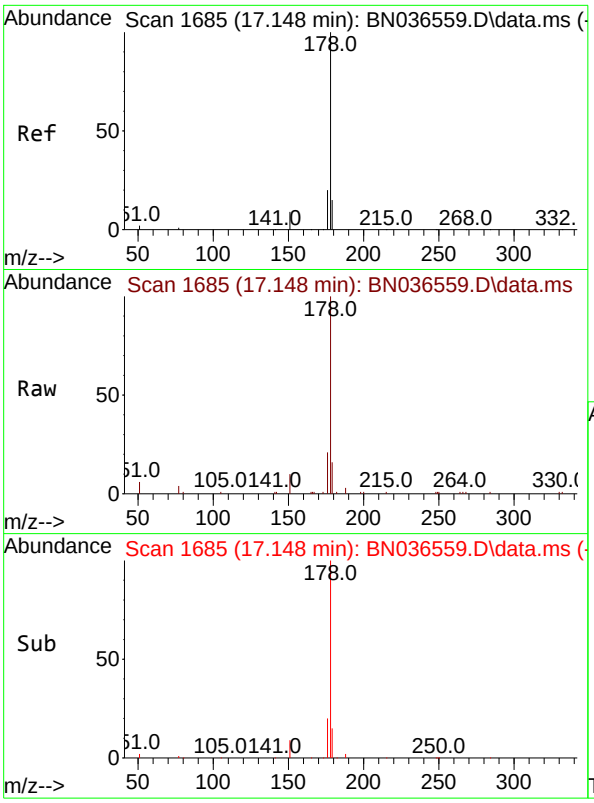


#24
Pentachlorophenol
Concen: 0.396 ng
RT: 16.776 min Scan# 1655
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:266 Resp: 821

Ion	Ratio	Lower	Upper
266	100		
264	62.0	49.6	74.4
268	63.6	50.9	76.3



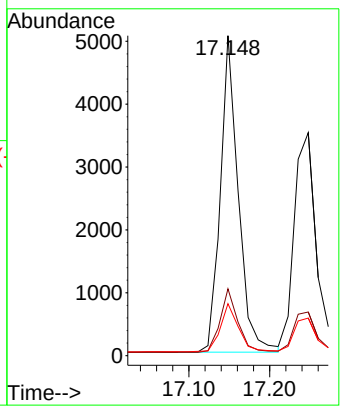


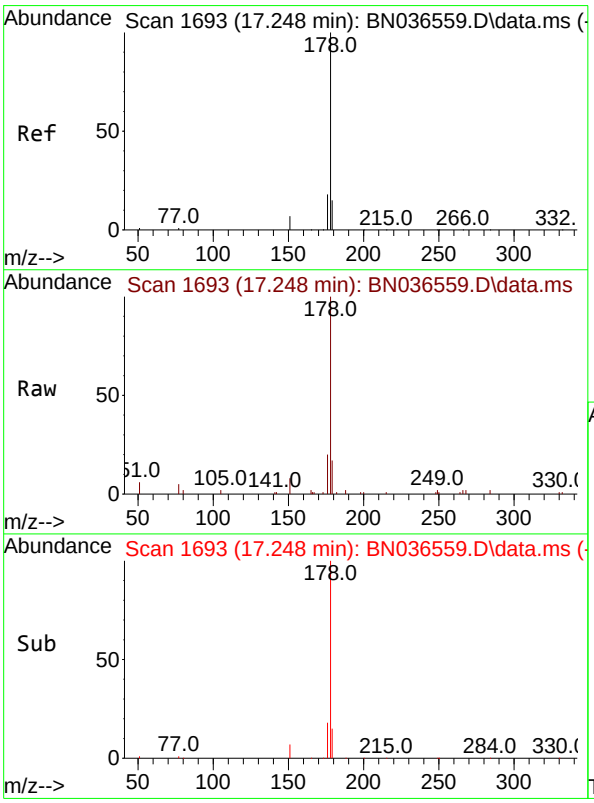
#25
Phenanthrene
Concen: 0.432 ng
RT: 17.148 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:178 Resp: 7786

Ion	Ratio	Lower	Upper
178	100		
176	19.9	15.9	23.9
179	15.3	12.2	18.4

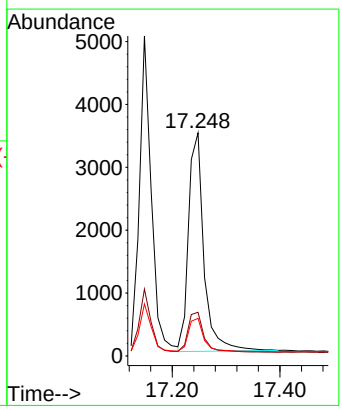


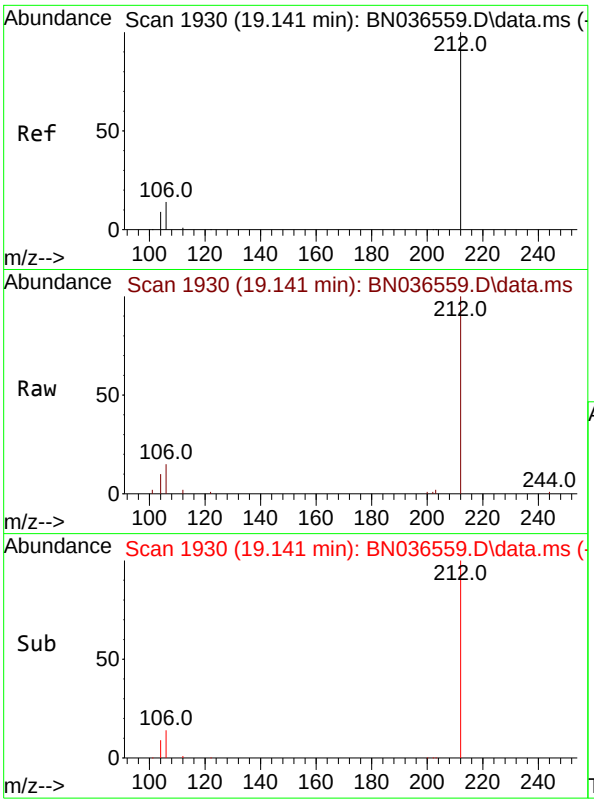


#26
Anthracene
Concen: 0.424 ng
RT: 17.248 min Scan# 1693
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:178 Resp: 6886

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.4	23.2
179	15.7	12.6	18.8



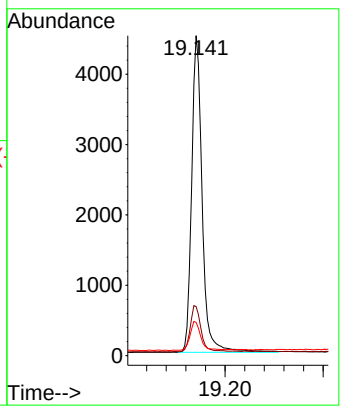


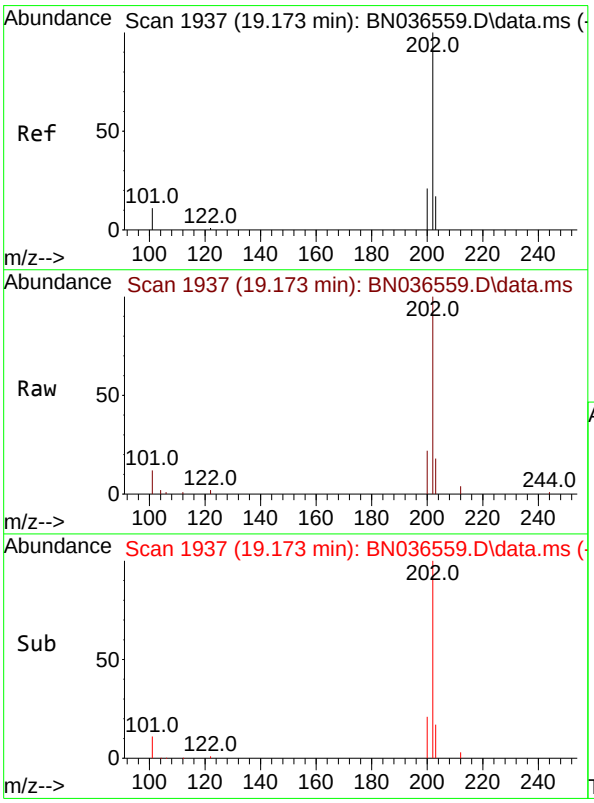
#27
Fluoranthene-d10
Concen: 0.435 ng
RT: 19.141 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:212 Resp: 6699

Ion	Ratio	Lower	Upper
212	100		
106	14.7	11.8	17.6
104	9.1	7.3	10.9

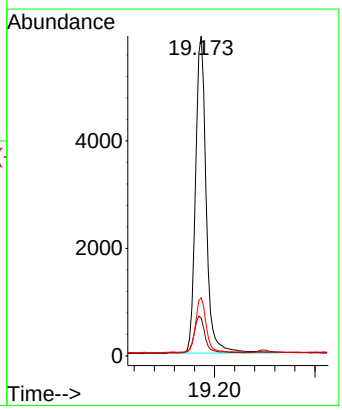


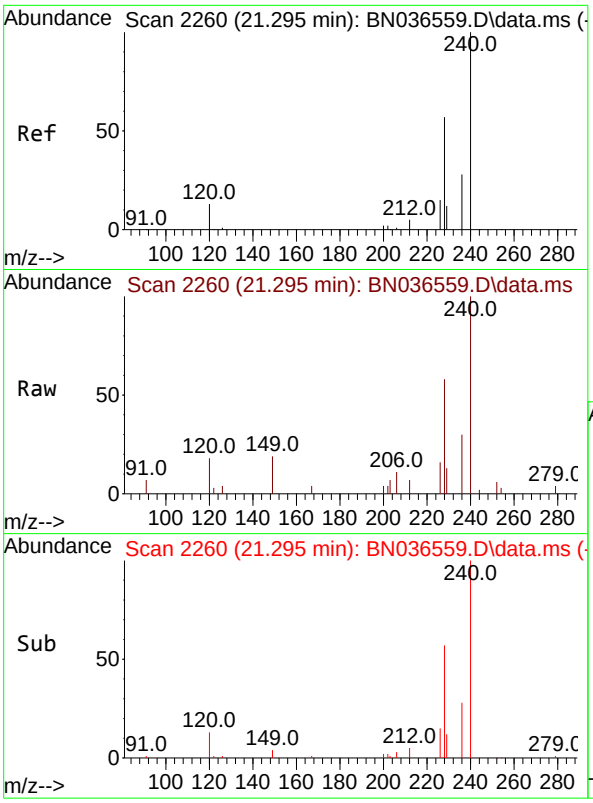


#28
Fluoranthene
Concen: 0.431 ng
RT: 19.173 min Scan# 1937
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:202 Resp: 8717

Ion	Ratio	Lower	Upper
202	100		
101	11.7	9.4	14.0
203	16.9	13.5	20.3



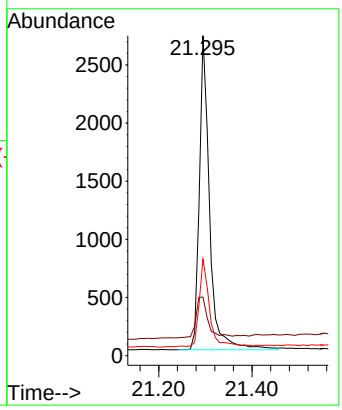


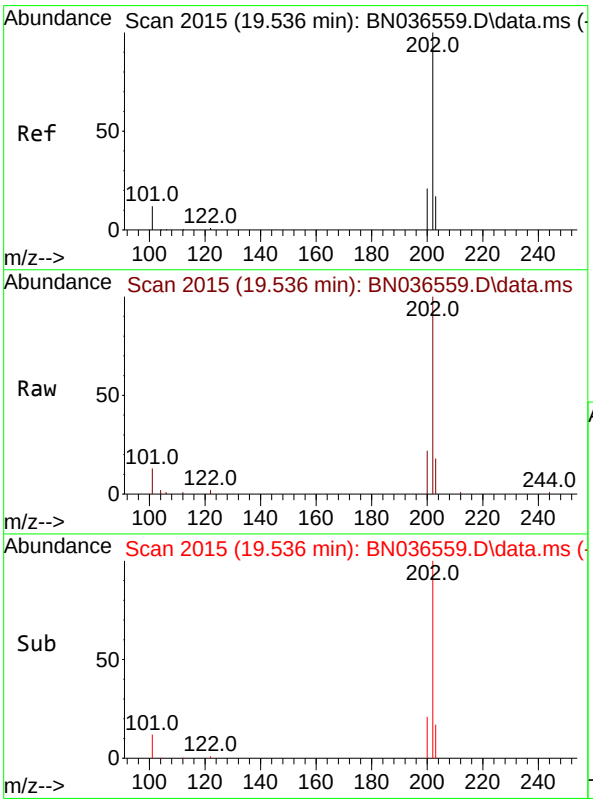
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:240 Resp: 4110

Ion	Ratio	Lower	Upper
240	100		
120	18.3	14.6	22.0
236	30.1	24.1	36.1

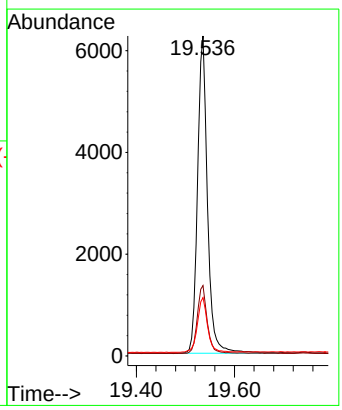


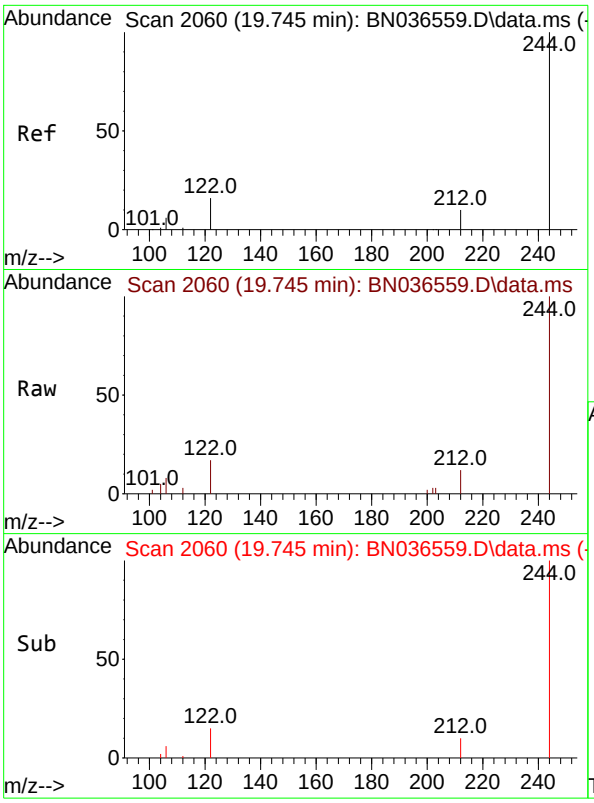


#30
Pyrene
Concen: 0.436 ng
RT: 19.536 min Scan# 2015
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:202 Resp: 8759

Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.1	25.7
203	17.6	14.1	21.1



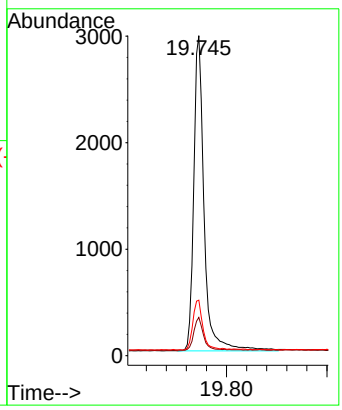


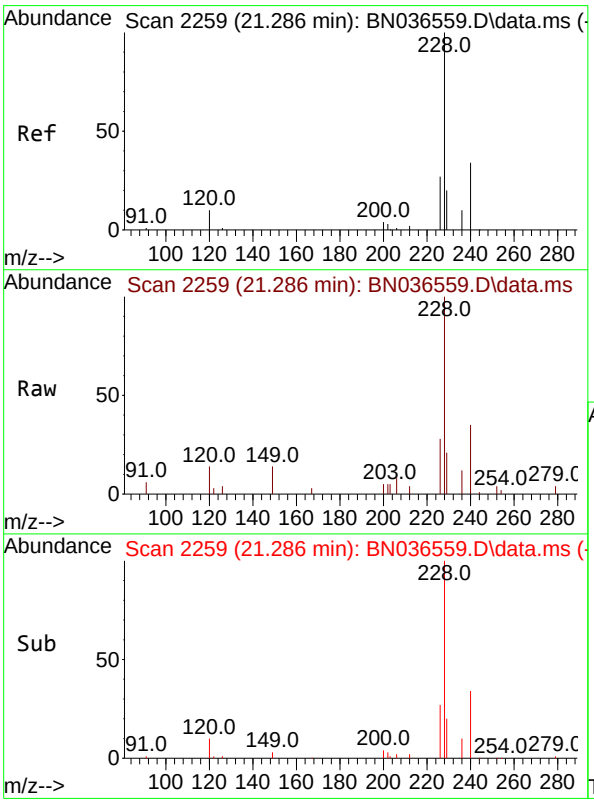
#31
Terphenyl-d14
Concen: 0.429 ng
RT: 19.745 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:244 Resp: 4226

Ion	Ratio	Lower	Upper
244	100		
212	12.0	9.6	14.4
122	17.4	13.9	20.9

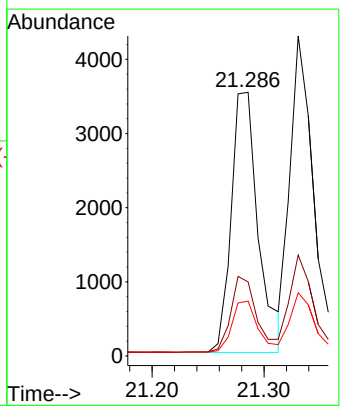


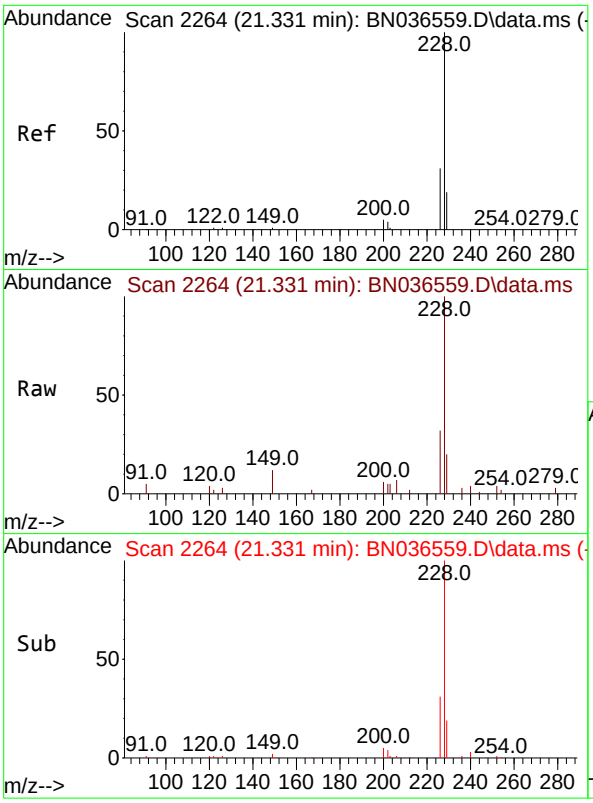


#32
Benzo(a)anthracene
Concen: 0.413 ng
RT: 21.286 min Scan# 2259
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:228 Resp: 5908

Ion	Ratio	Lower	Upper
228	100		
226	28.1	22.5	33.7
229	20.8	16.6	25.0



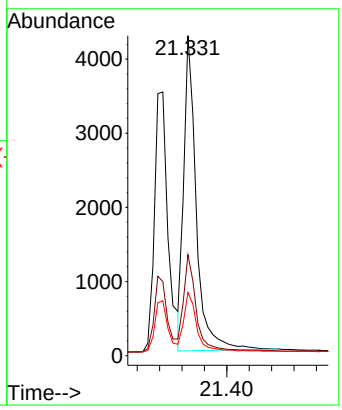


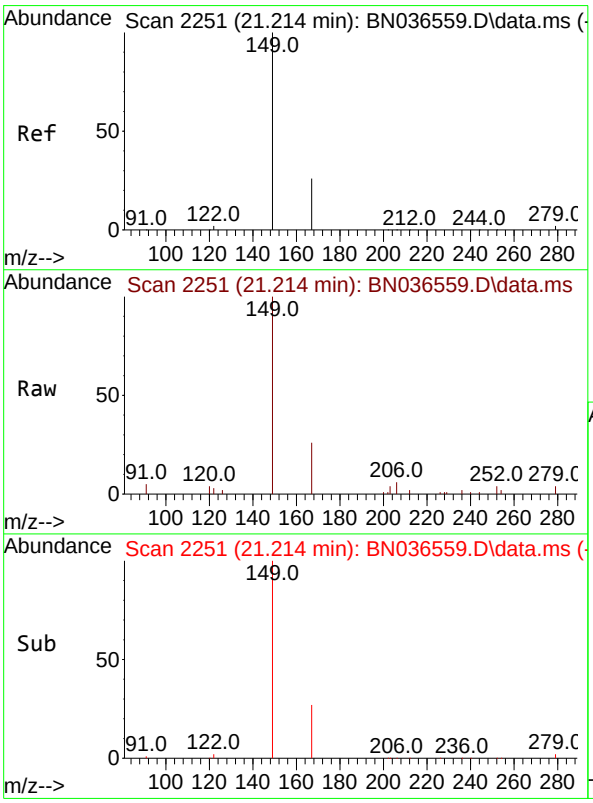
#33
Chrysene
Concen: 0.424 ng
RT: 21.331 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:228 Resp: 6617

Ion	Ratio	Lower	Upper
228	100		
226	31.6	25.3	37.9
229	19.8	15.8	23.8

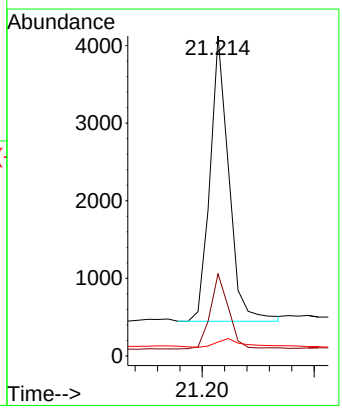


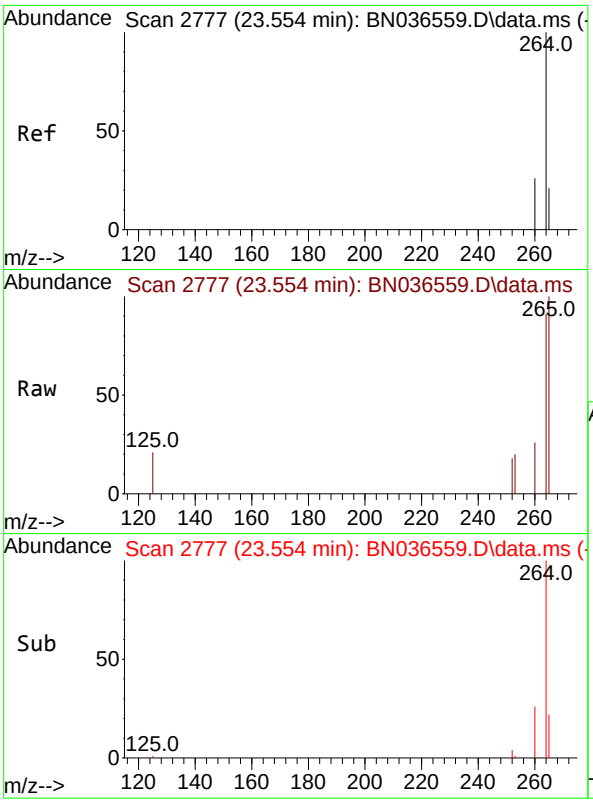


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.422 ng
RT: 21.214 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:149 Resp: 4291

Ion	Ratio	Lower	Upper
149	100		
167	25.9	20.7	31.1
279	4.5	3.6	5.4



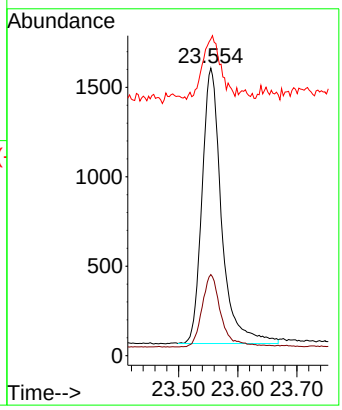


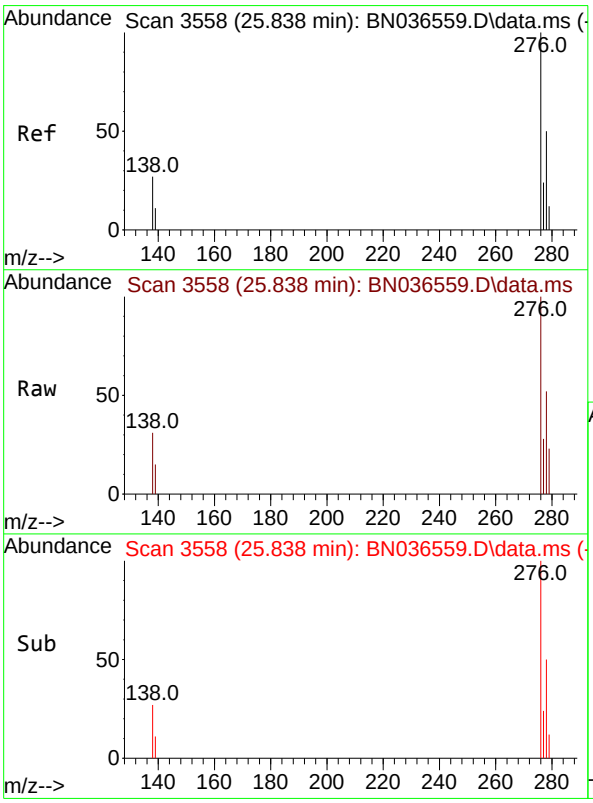
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.554 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:264 Resp: 3539

Ion	Ratio	Lower	Upper
264	100		
260	28.2	22.6	33.8
265	110.1	88.1	132.1

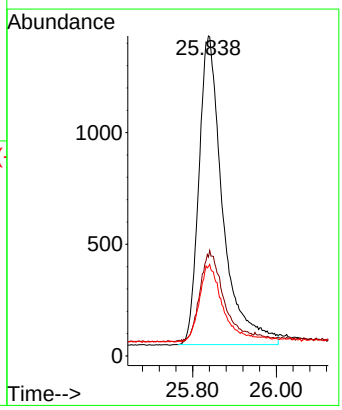


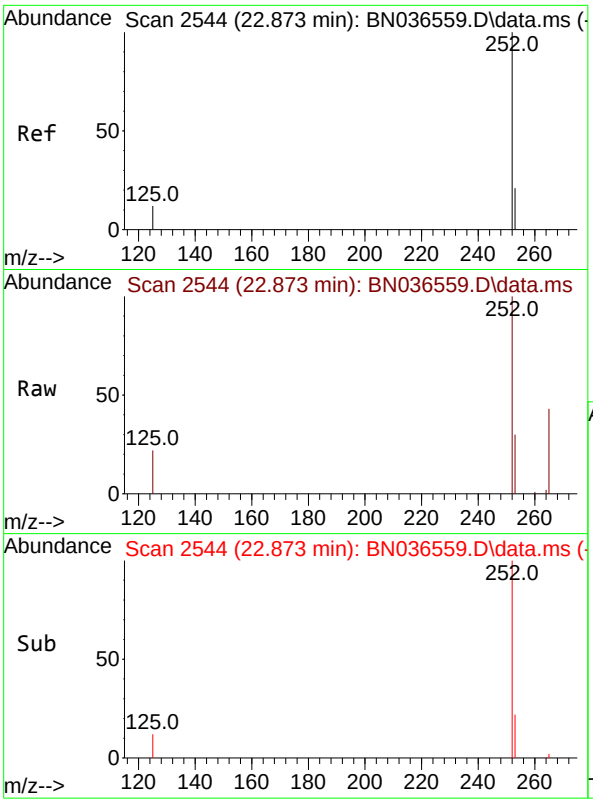


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.428 ng
RT: 25.838 min Scan# 3558
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:276 Resp: 5470

Ion	Ratio	Lower	Upper
276	100		
138	29.3	23.4	35.2
277	25.0	20.0	30.0



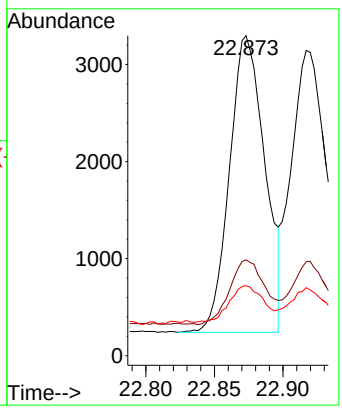


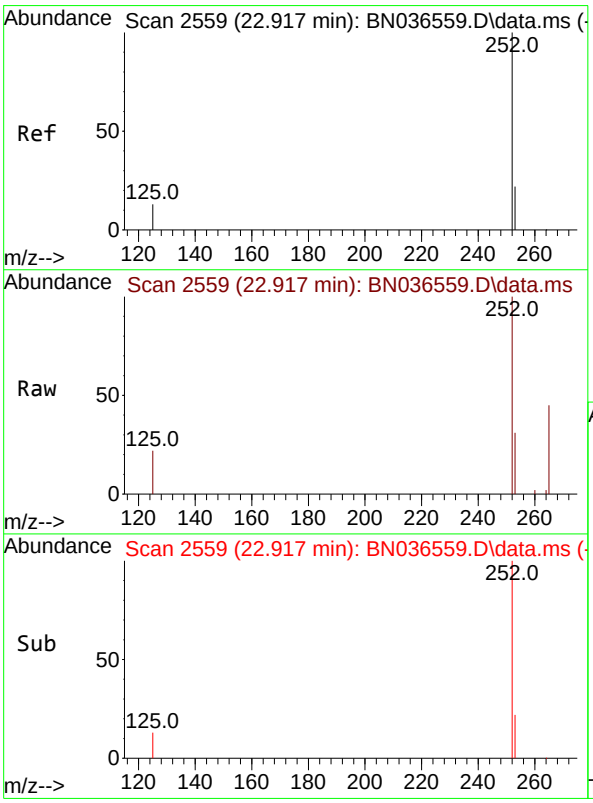
#37
Benzo(b)fluoranthene
Concen: 0.425 ng
RT: 22.873 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:252 Resp: 5475

Ion	Ratio	Lower	Upper
252	100		
253	29.9	23.9	35.9
125	21.8	17.4	26.2

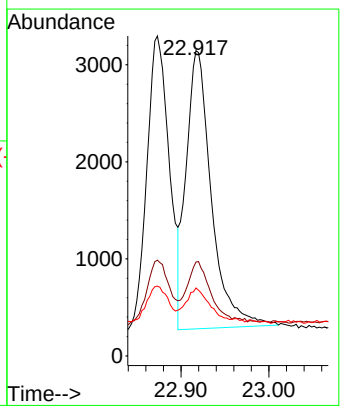


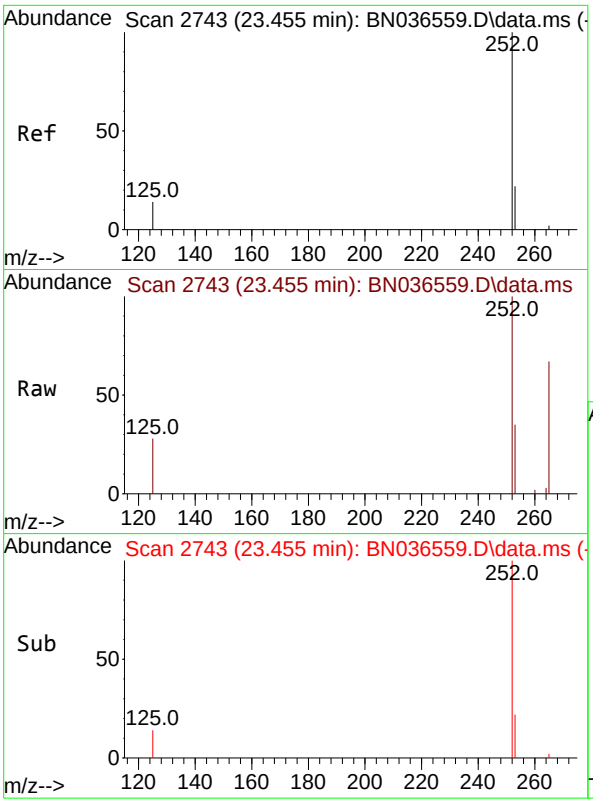


#38
Benzo(k)fluoranthene
Concen: 0.424 ng
RT: 22.917 min Scan# 2559
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:252 Resp: 5732

Ion	Ratio	Lower	Upper
252	100		
253	30.7	24.6	36.8
125	22.3	17.8	26.8



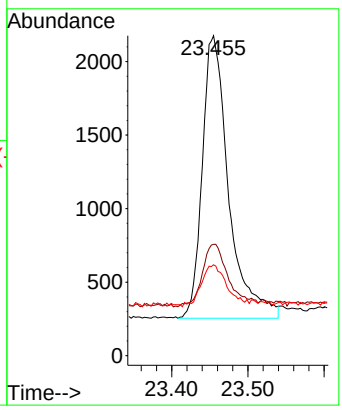


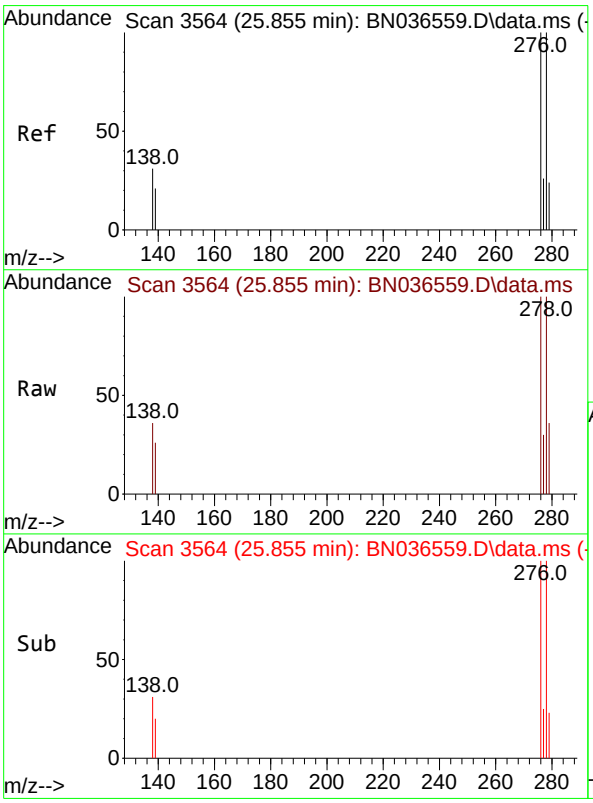
#39
Benzo(a)pyrene
Concen: 0.425 ng
RT: 23.455 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:252 Resp: 4612

Ion	Ratio	Lower	Upper
252	100		
253	34.8	27.8	41.8
125	28.4	22.7	34.1

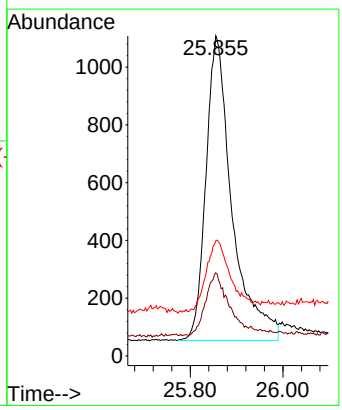


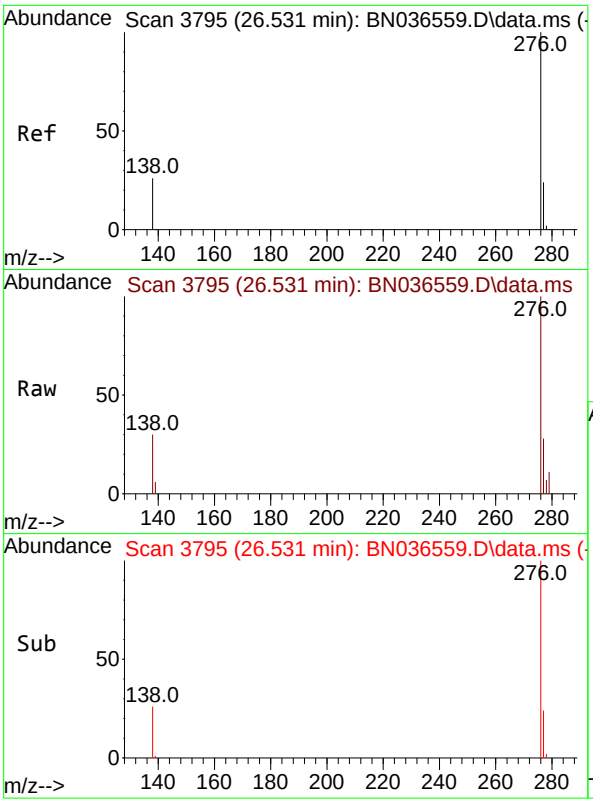


#40
Dibenzo(a,h)anthracene
Concen: 0.414 ng
RT: 25.855 min Scan# 3564
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:278 Resp: 4117

Ion	Ratio	Lower	Upper
278	100		
139	26.0	20.8	31.2
279	36.0	28.8	43.2



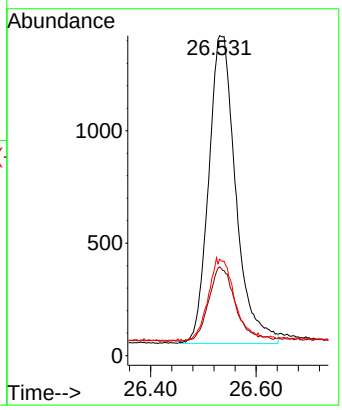


#41
Benzo(g,h,i)perylene
Concen: 0.430 ng
RT: 26.531 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:276 Resp: 4891

Ion	Ratio	Lower	Upper
276	100		
277	27.8	22.2	33.4
138	30.1	24.1	36.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036560.D
Acq On : 10 Mar 2025 13:31
Operator : RC/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Quant Time: Mar 10 16:01:54 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:54:23 2025
Response via : Initial Calibration

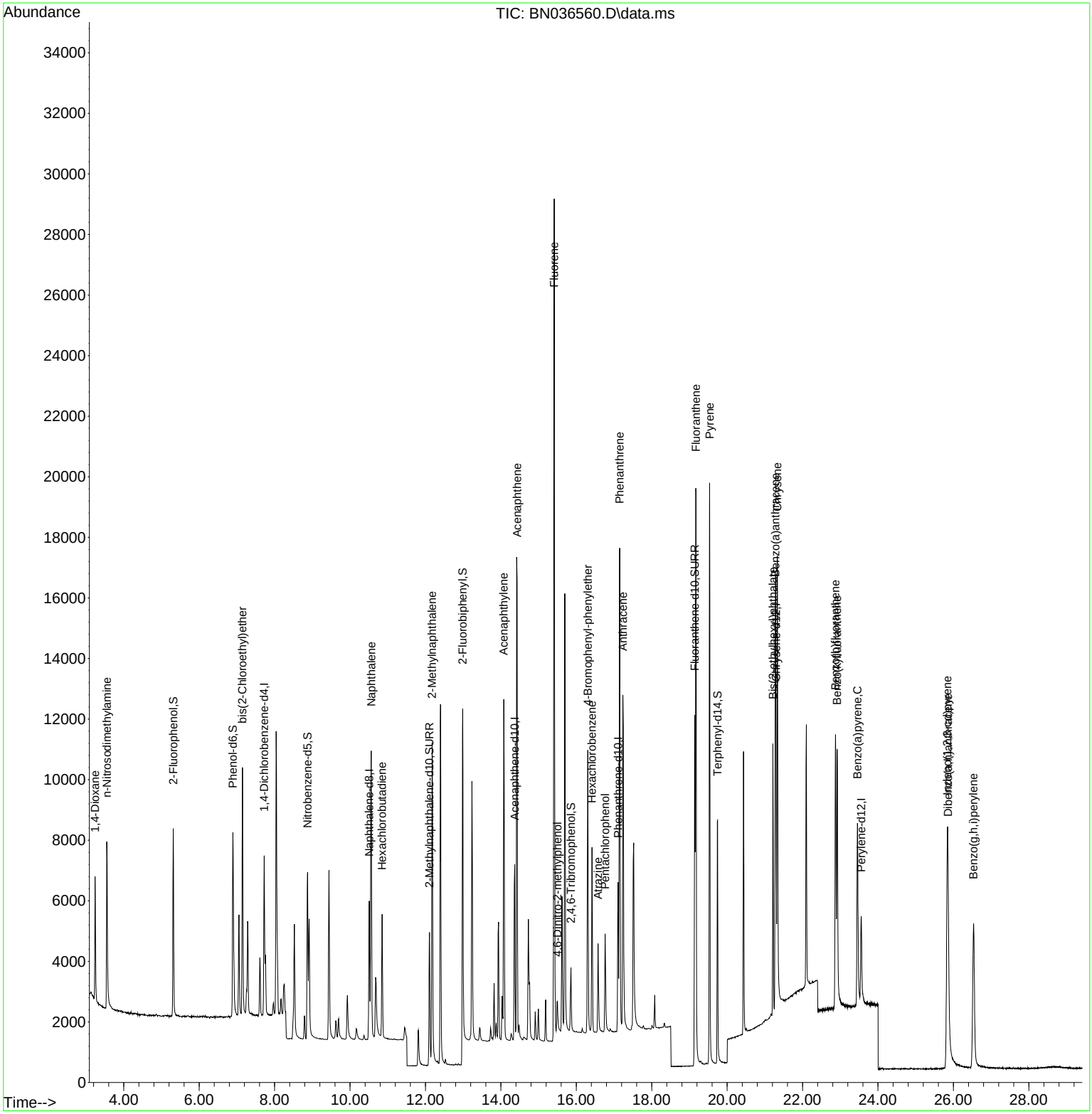
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.724	152	2495	0.400	ng		0.00
7) Naphthalene-d8	10.509	136	5884	0.400	ng		0.00
13) Acenaphthene-d10	14.366	164	3456	0.400	ng		0.00
19) Phenanthrene-d10	17.111	188	6971	0.400	ng		0.00
29) Chrysene-d12	21.295	240	4636	0.400	ng		0.00
35) Perylene-d12	23.554	264	4198	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.312	112	4381	0.753	ng		0.00
5) Phenol-d6	6.894	99	5324	0.741	ng		0.00
8) Nitrobenzene-d5	8.875	82	4717	0.737	ng		0.00
11) 2-Methylnaphthalene-d10	12.106	152	6616	0.756	ng		0.00
14) 2,4,6-Tribromophenol	15.858	330	1166	0.744	ng		0.00
15) 2-Fluorobiphenyl	12.988	172	16243	0.808	ng		0.00
27) Fluoranthene-d10	19.141	212	13330	0.746	ng		0.00
31) Terphenyl-d14	19.745	244	8571	0.772	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.239	88	2251	0.813	ng		99
3) n-Nitrosodimethylamine	3.550	42	4197	0.750	ng		96
6) bis(2-Chloroethyl)ether	7.147	93	5632	0.759	ng		99
9) Naphthalene	10.562	128	13078	0.756	ng		98
10) Hexachlorobutadiene	10.851	225	3147	0.772	ng	#	99
12) 2-Methylnaphthalene	12.177	142	8272	0.751	ng		98
16) Acenaphthylene	14.078	152	12403	0.760	ng		100
17) Acenaphthene	14.430	154	8096	0.758	ng		99
18) Fluorene	15.414	166	11120	0.770	ng		100
20) 4,6-Dinitro-2-methylph...	15.499	198	1039	0.724	ng	#	59
21) 4-Bromophenyl-phenylether	16.305	248	3324	0.761	ng		93
22) Hexachlorobenzene	16.416	284	4115	0.780	ng		99
23) Atrazine	16.578	200	2677	0.764	ng		94
24) Pentachlorophenol	16.764	266	1701	0.707	ng		98
25) Phenanthrene	17.149	178	15910	0.761	ng		99
26) Anthracene	17.236	178	14403	0.763	ng		99
28) Fluoranthene	19.174	202	17738	0.755	ng		99
30) Pyrene	19.536	202	17714	0.781	ng		100
32) Benzo(a)anthracene	21.277	228	12089	0.750	ng		98
33) Chrysene	21.331	228	13974	0.793	ng		100
34) Bis(2-ethylhexyl)phtha...	21.214	149	8021	0.699	ng	#	99
36) Indeno(1,2,3-cd)pyrene	25.838	276	11785	0.778	ng		99
37) Benzo(b)fluoranthene	22.873	252	11771	0.770	ng	#	91
38) Benzo(k)fluoranthene	22.917	252	12432	0.776	ng	#	90
39) Benzo(a)pyrene	23.455	252	10036	0.780	ng	#	87
40) Dibenzo(a,h)anthracene	25.858	278	9450	0.801	ng		91
41) Benzo(g,h,i)perylene	26.534	276	10494	0.778	ng		96

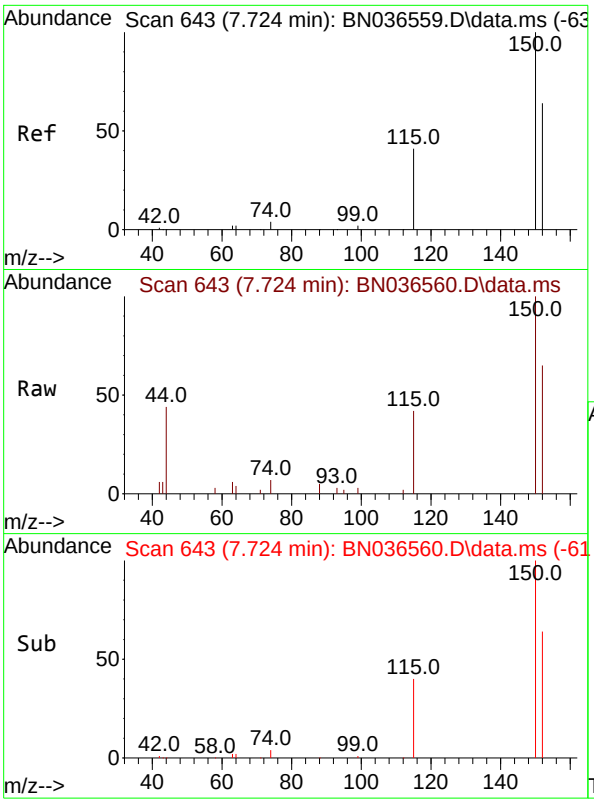
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036560.D
Acq On : 10 Mar 2025 13:31
Operator : RC/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Quant Time: Mar 10 16:01:54 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:54:23 2025
Response via : Initial Calibration



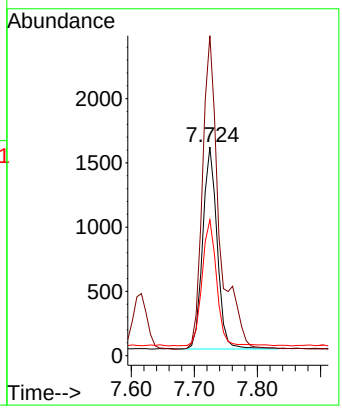


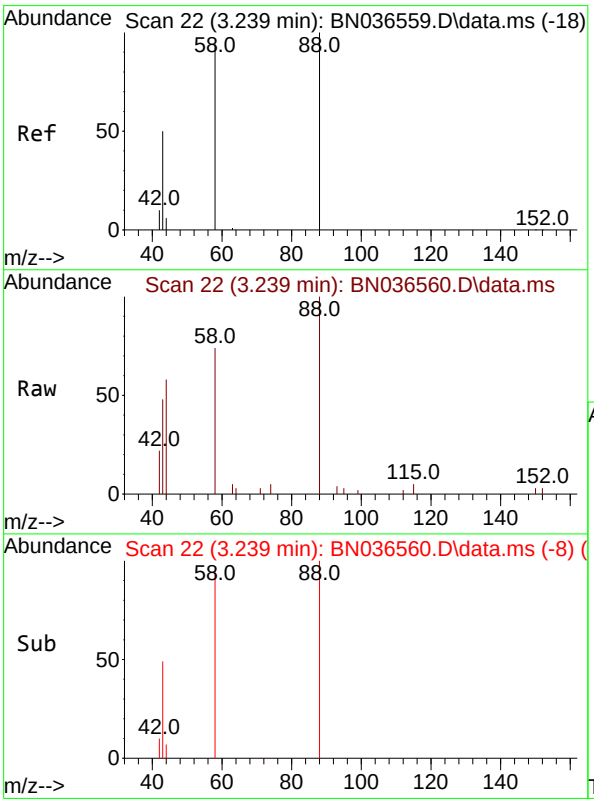
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:152 Resp: 2495

Ion	Ratio	Lower	Upper
152	100		
150	153.3	123.7	185.5
115	65.1	54.3	81.5

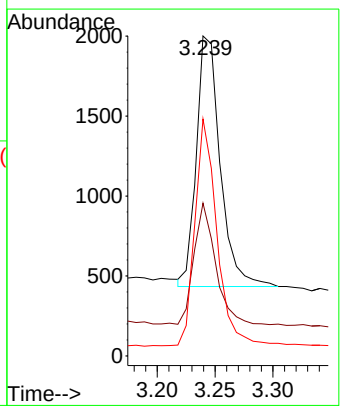


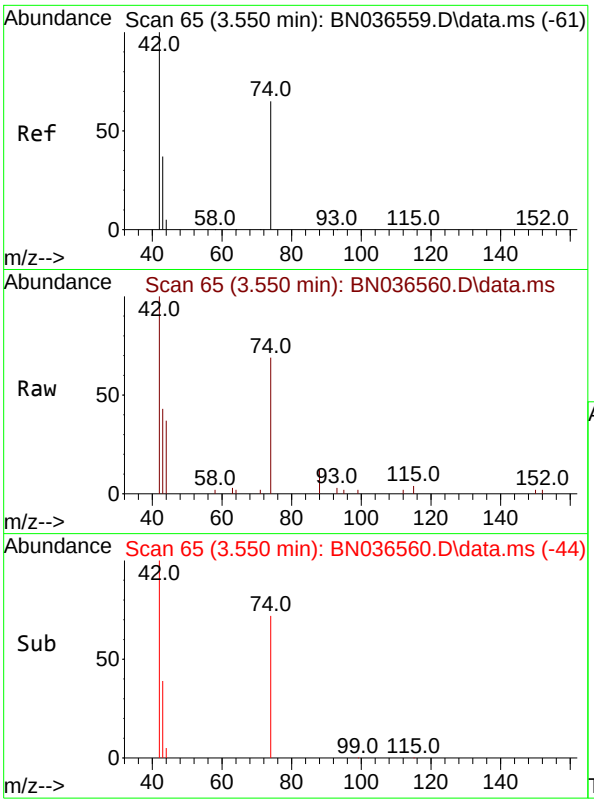


#2
1,4-Dioxane
Concen: 0.813 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion: 88 Resp: 2251

Ion	Ratio	Lower	Upper
88	100		
43	45.6	37.8	56.8
58	84.5	67.4	101.2



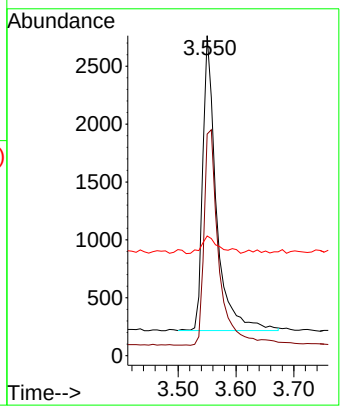


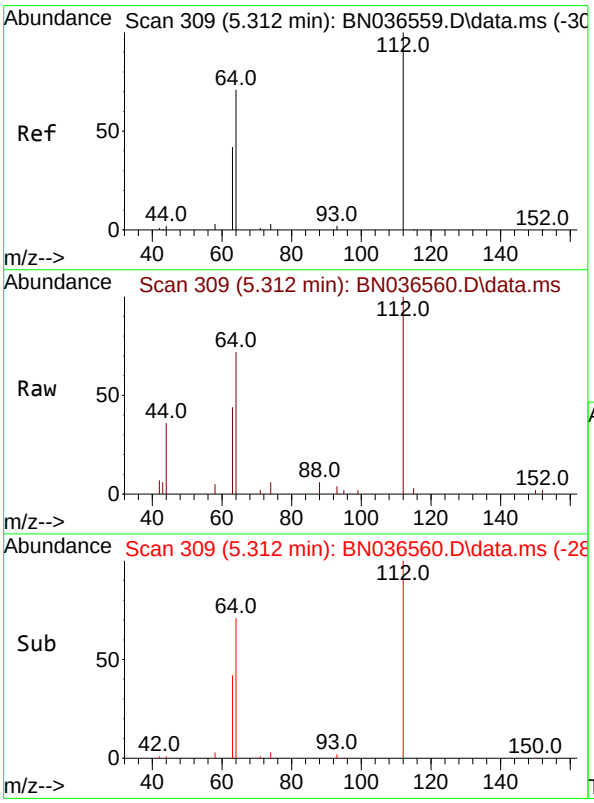
#3
n-Nitrosodimethylamine
Concen: 0.750 ng
RT: 3.550 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion: 42 Resp: 4197

Ion	Ratio	Lower	Upper
42	100		
74	79.3	60.6	90.8
44	7.4	6.3	9.5

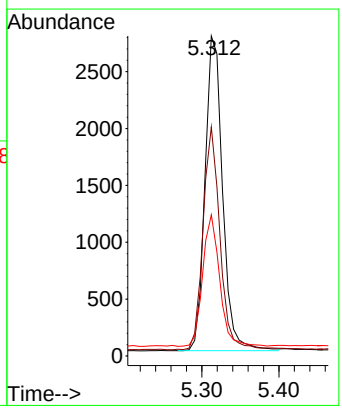


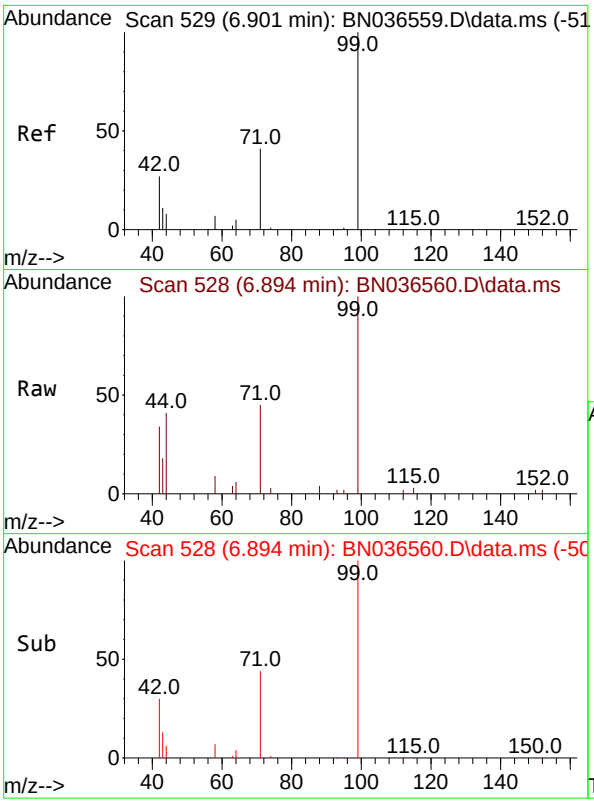


#4
2-Fluorophenol
Concen: 0.753 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion:112 Resp: 4381

Ion	Ratio	Lower	Upper
112	100		
64	68.8	53.1	79.7
63	40.4	31.8	47.8



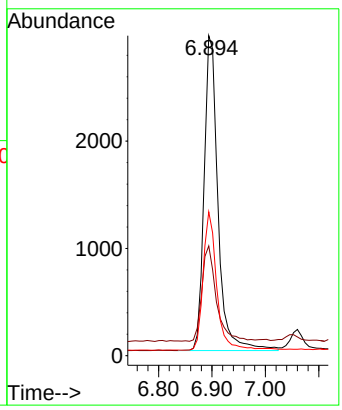


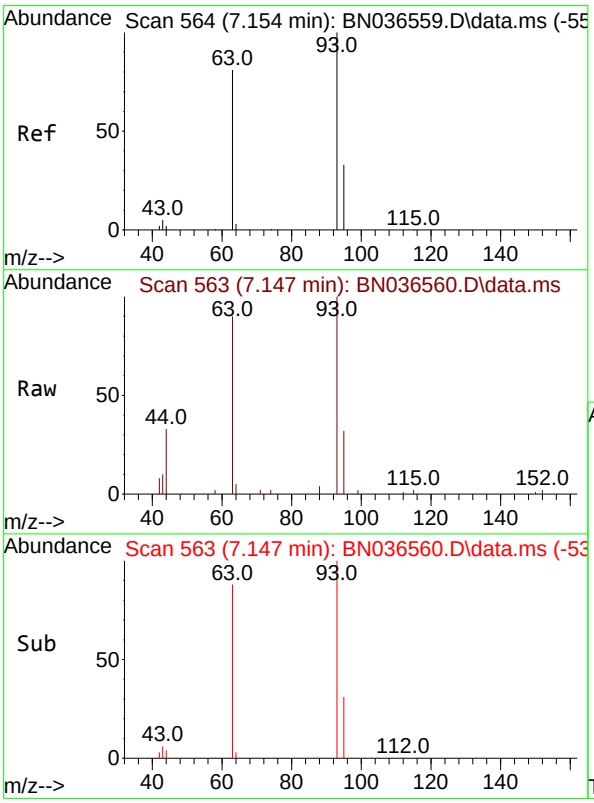
#5
Phenol-d6
Concen: 0.741 ng
RT: 6.894 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion: 99 Resp: 5324

Ion	Ratio	Lower	Upper
99	100		
42	31.3	26.5	39.7
71	42.6	34.1	51.1

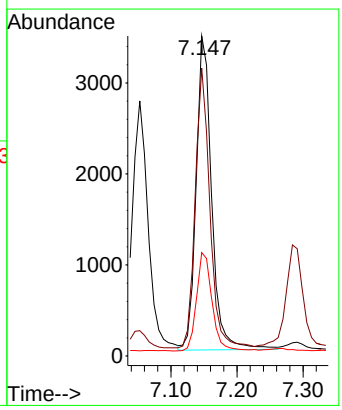


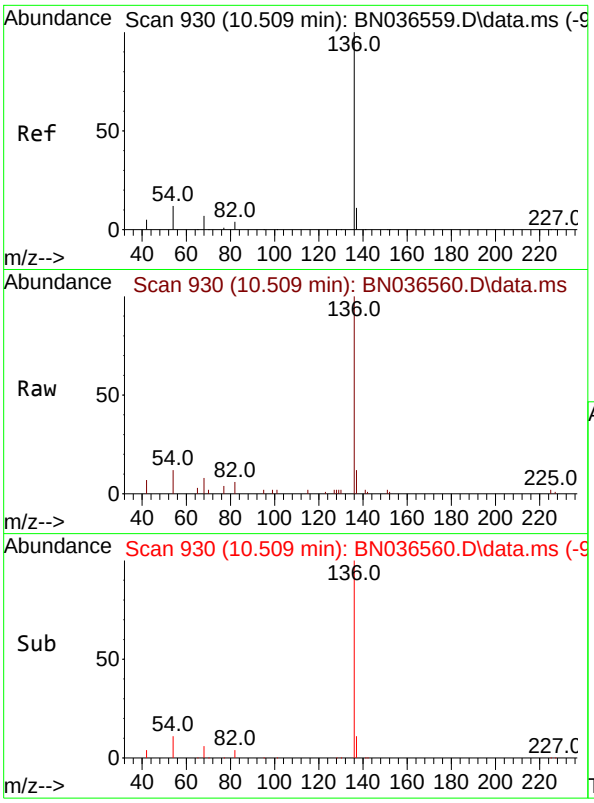


#6
bis(2-Chloroethyl)ether
Concen: 0.759 ng
RT: 7.147 min Scan# 563
Delta R.T. -0.007 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion: 93 Resp: 5632

Ion	Ratio	Lower	Upper
93	100		
63	84.0	67.7	101.5
95	31.6	25.6	38.4



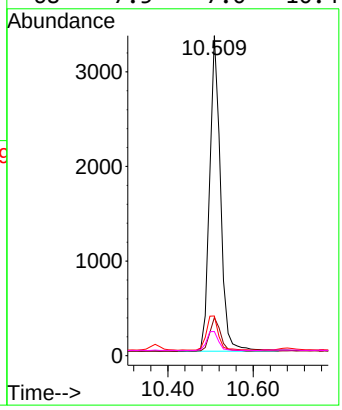


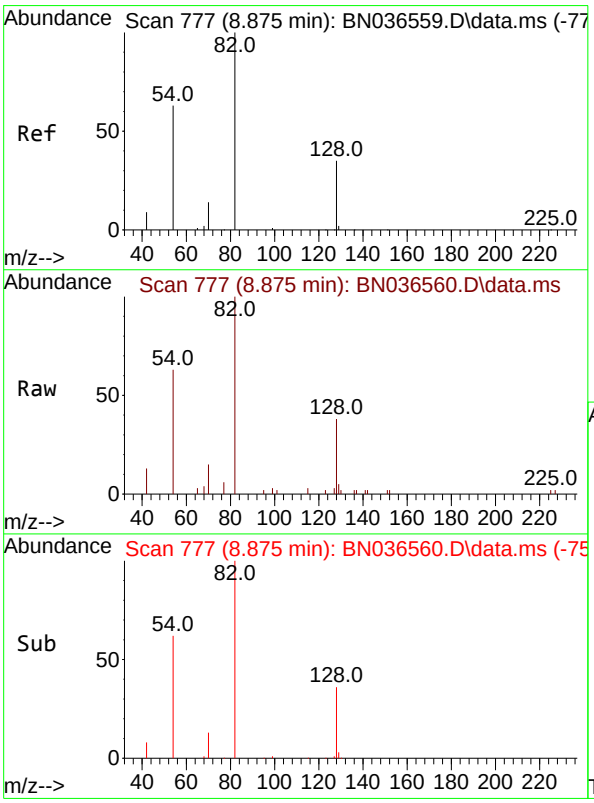
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:136 Resp: 5884

Ion	Ratio	Lower	Upper
136	100		
137	11.9	10.3	15.5
54	12.4	11.5	17.3
68	7.5	7.0	10.4

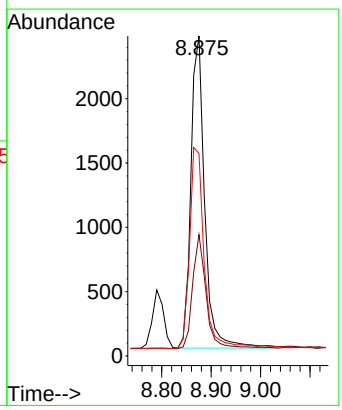


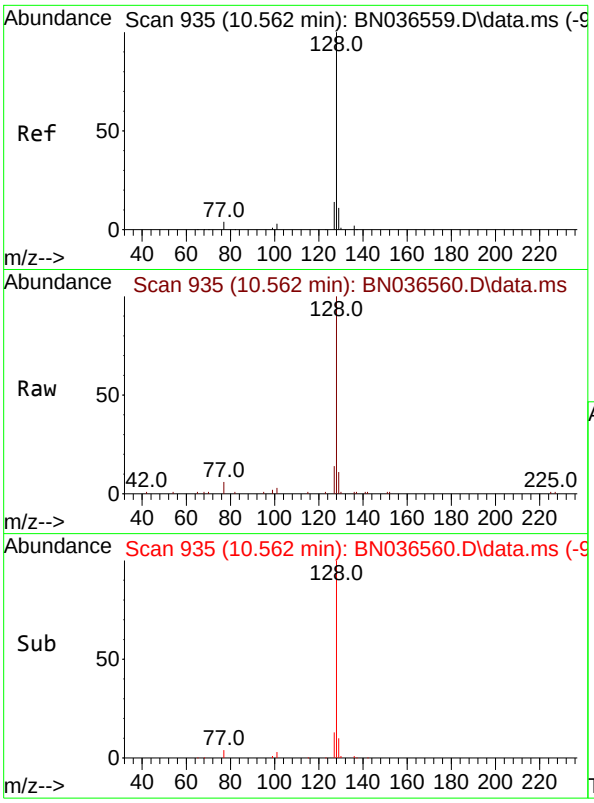


#8
Nitrobenzene-d5
Concen: 0.737 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion: 82 Resp: 4717

Ion	Ratio	Lower	Upper
82	100		
128	37.9	30.6	45.8
54	63.2	52.2	78.4



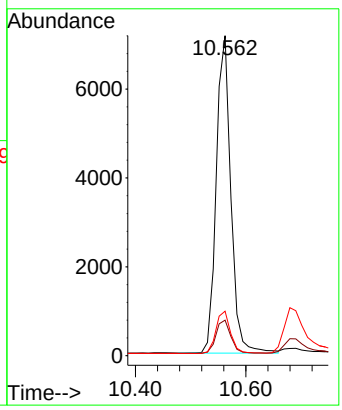


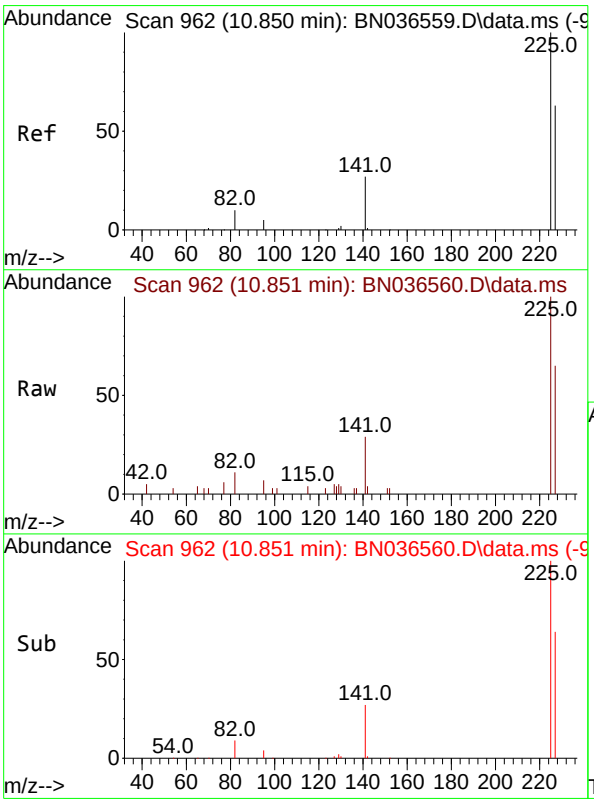
#9
Naphthalene
Concen: 0.756 ng
RT: 10.562 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:128 Resp: 13078

Ion	Ratio	Lower	Upper
128	100		
129	11.1	9.8	14.6
127	13.9	11.8	17.8

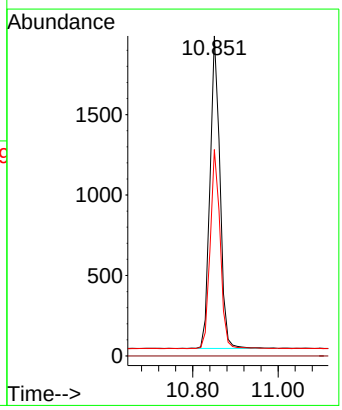


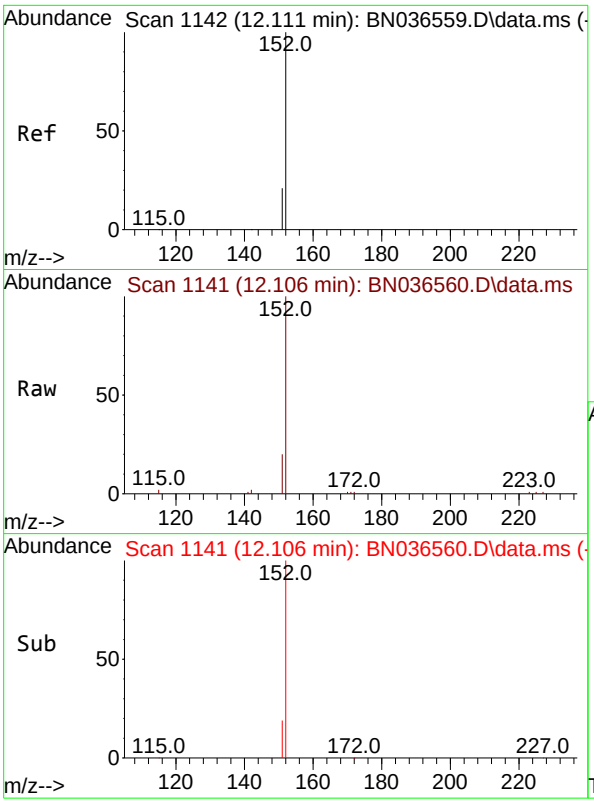


#10
Hexachlorobutadiene
Concen: 0.772 ng
RT: 10.851 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion:225 Resp: 3147

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.7	51.8	77.8



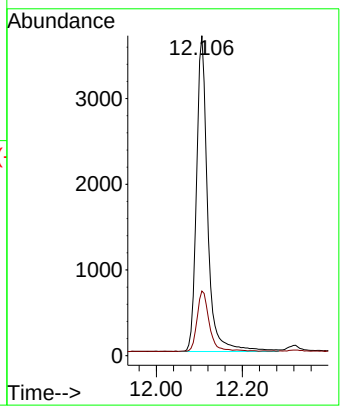


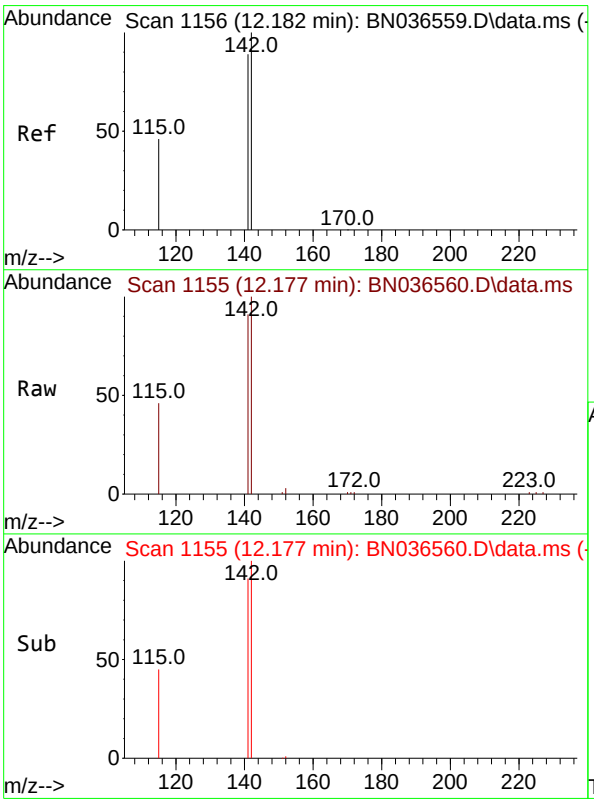
#11
2-Methylnaphthalene-d10
Concen: 0.756 ng
RT: 12.106 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:152 Resp: 6616

Ion	Ratio	Lower	Upper
152	100		
151	20.8	17.0	25.6

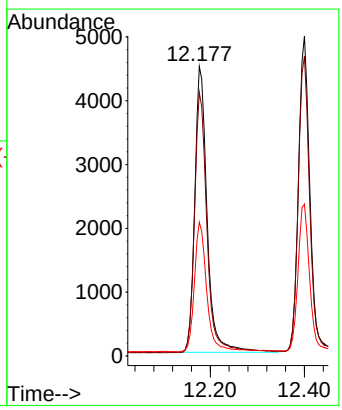


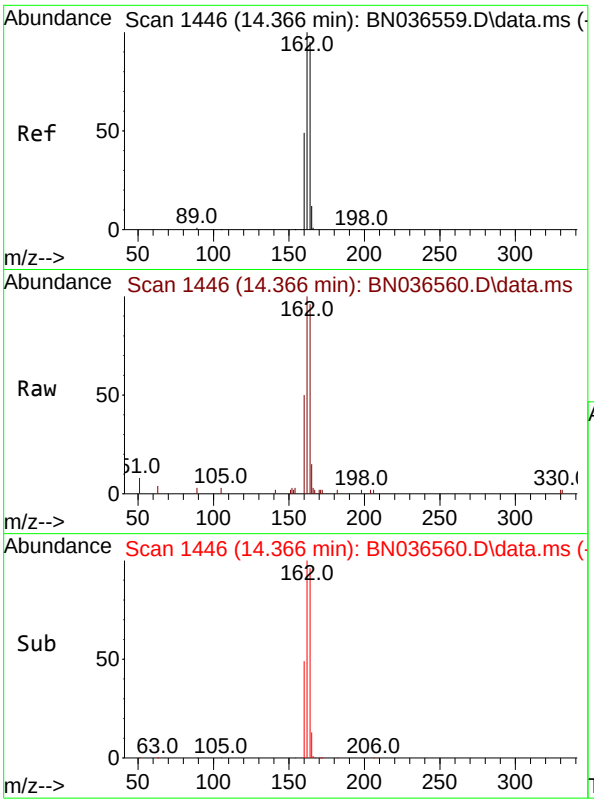


#12
2-Methylnaphthalene
Concen: 0.751 ng
RT: 12.177 min Scan# 1155
Delta R.T. -0.005 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion:142 Resp: 8272

Ion	Ratio	Lower	Upper
142	100		
141	91.0	71.7	107.5
115	46.2	38.3	57.5



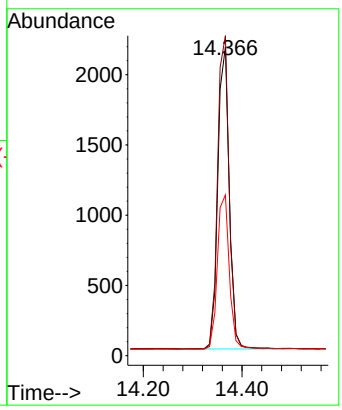


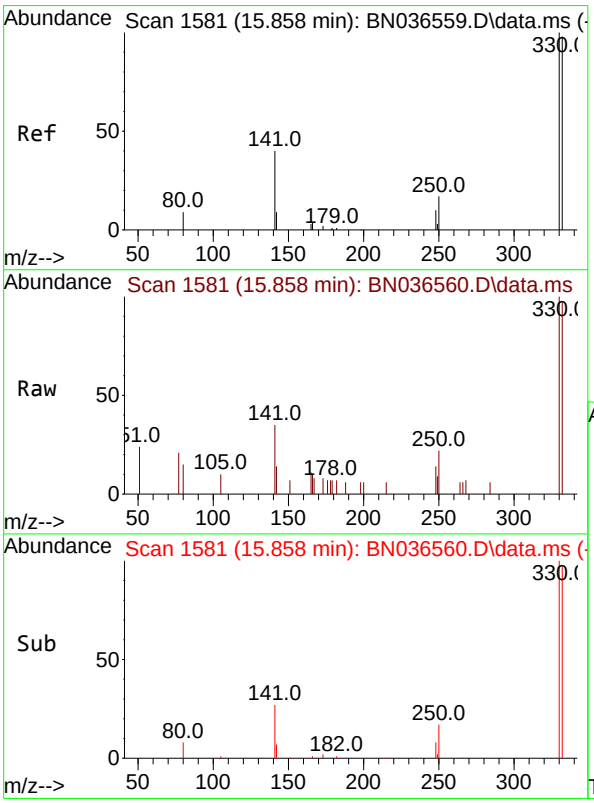
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:164 Resp: 3456

Ion	Ratio	Lower	Upper
164	100		
162	103.6	84.2	126.2
160	52.1	42.2	63.2

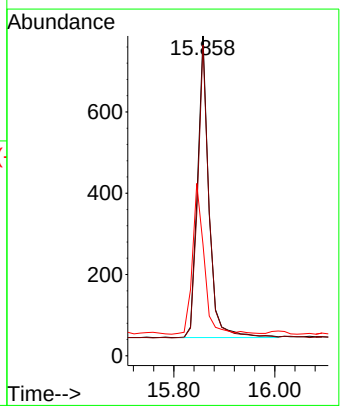


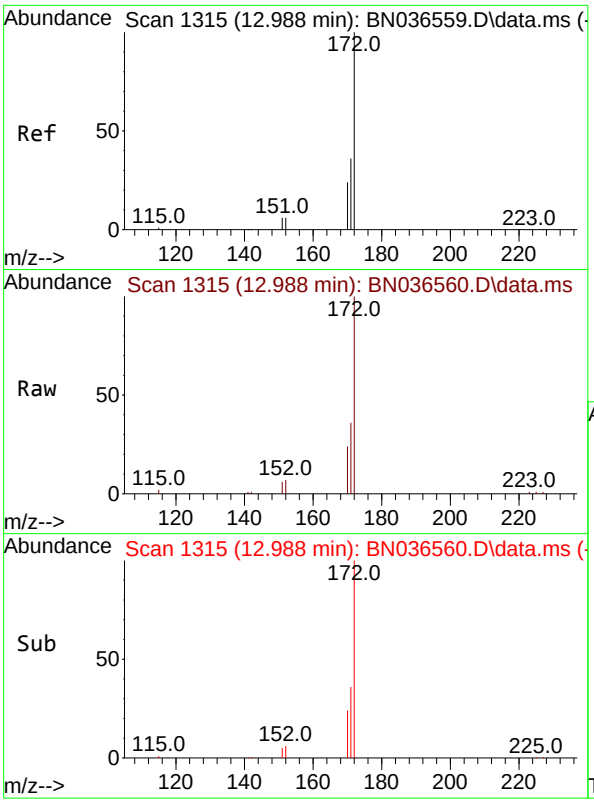


#14
2,4,6-Tribromophenol
Concen: 0.744 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion:330 Resp: 1166

Ion	Ratio	Lower	Upper
330	100		
332	97.6	75.2	112.8
141	51.8	43.4	65.2



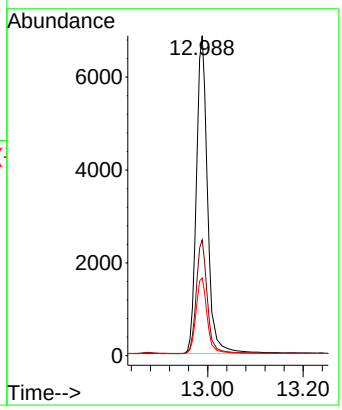


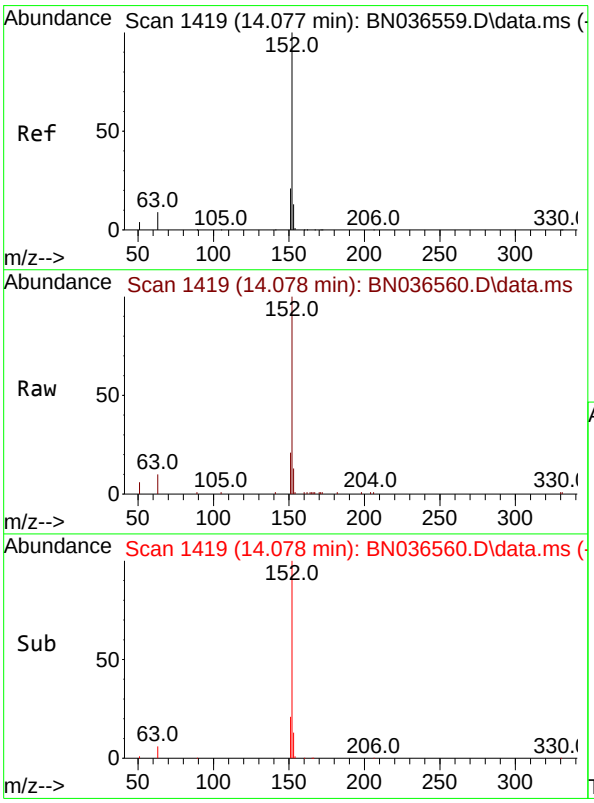
#15
2-Fluorobiphenyl
Concen: 0.808 ng
RT: 12.988 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:172 Resp: 16243

Ion	Ratio	Lower	Upper
172	100		
171	36.2	29.5	44.3
170	24.3	20.2	30.4

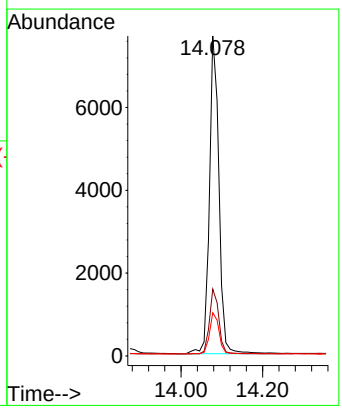


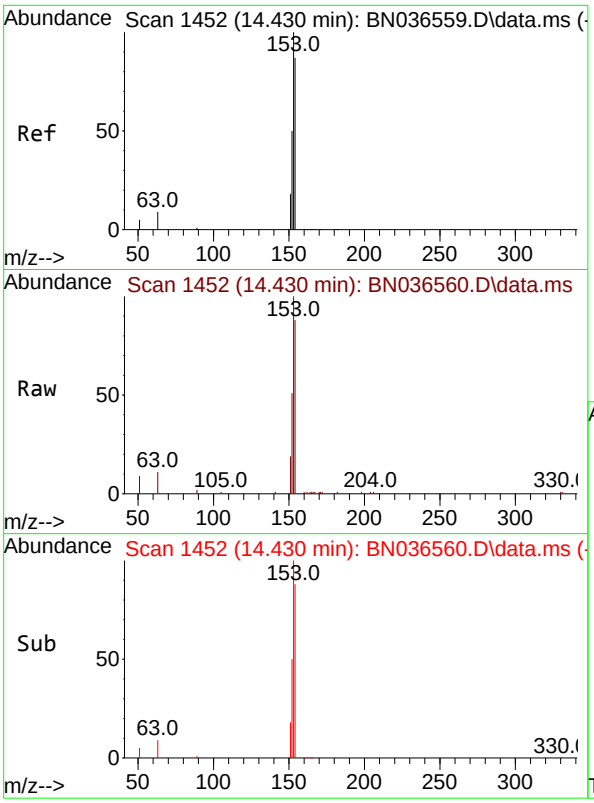


#16
Acenaphthylene
Concen: 0.760 ng
RT: 14.078 min Scan# 1419
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion:152 Resp: 12403

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.2	24.4
153	13.1	10.6	15.8



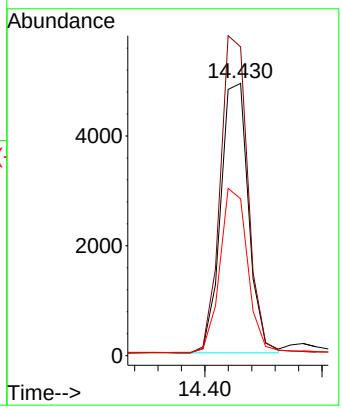


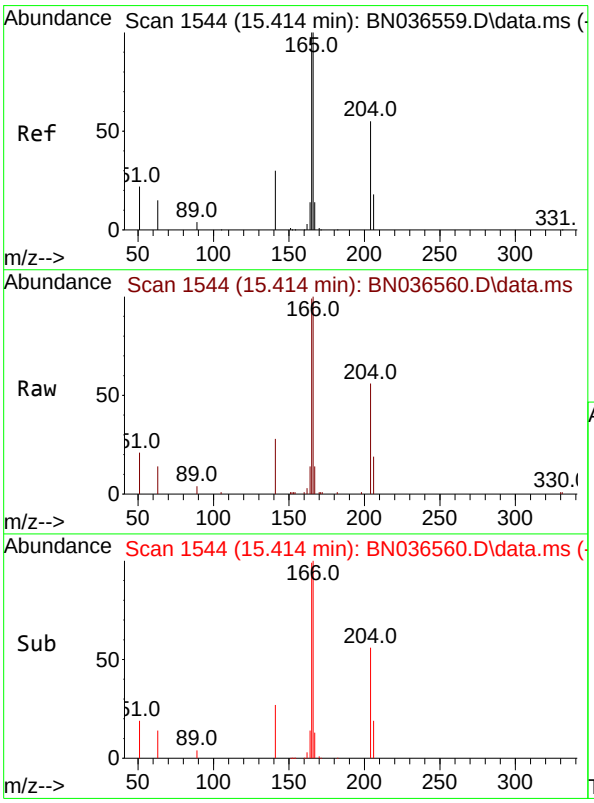
#17
Acenaphthene
Concen: 0.758 ng
RT: 14.430 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:154 Resp: 8096

Ion	Ratio	Lower	Upper
154	100		
153	117.8	94.1	141.1
152	60.9	49.8	74.6

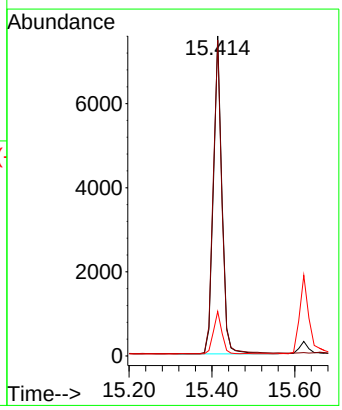


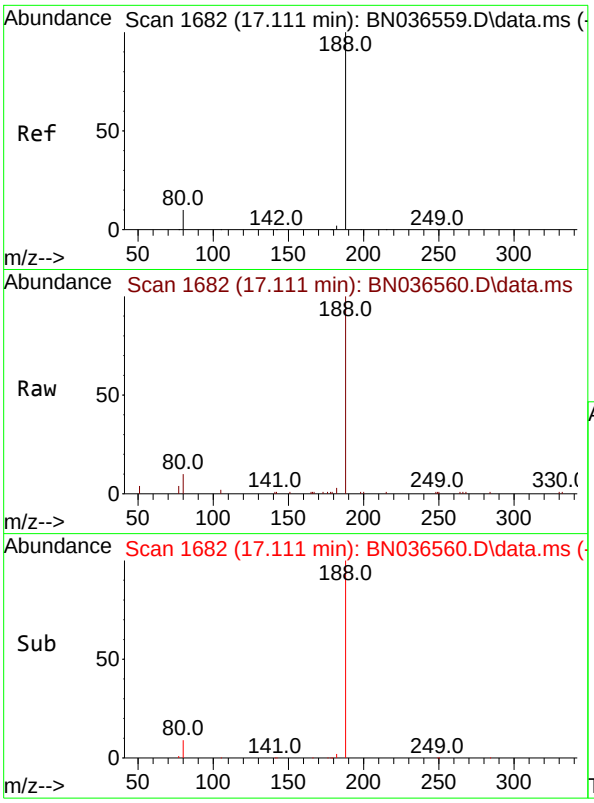


#18
Fluorene
Concen: 0.770 ng
RT: 15.414 min Scan# 1544
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion:166 Resp: 11120

Ion	Ratio	Lower	Upper
166	100		
165	99.8	79.8	119.8
167	13.3	10.6	15.8



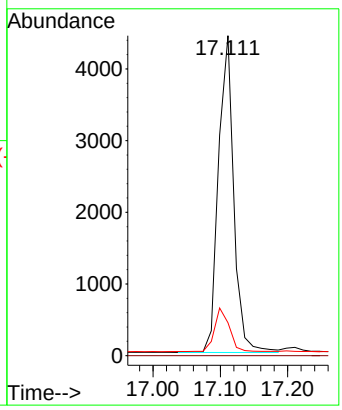


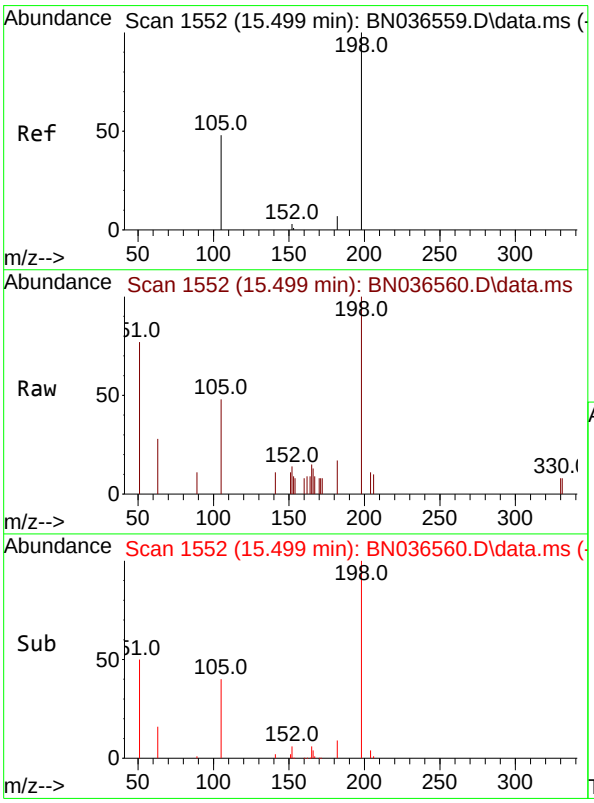
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:188 Resp: 6971

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.3	8.8	13.2

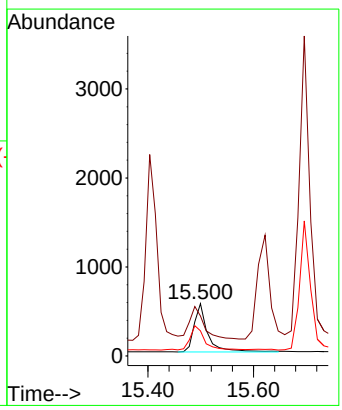


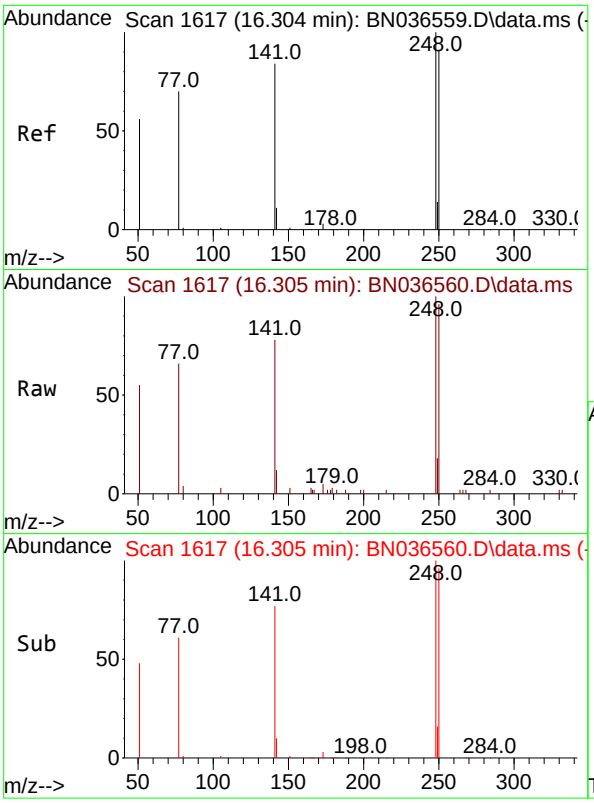


#20
4,6-Dinitro-2-methylphenol
Concen: 0.724 ng
RT: 15.499 min Scan# 1552
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion:198 Resp: 1039

Ion	Ratio	Lower	Upper
198	100		
51	76.5	107.9	161.9#
105	48.1	56.2	84.2#



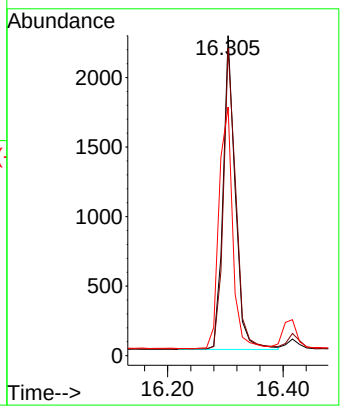


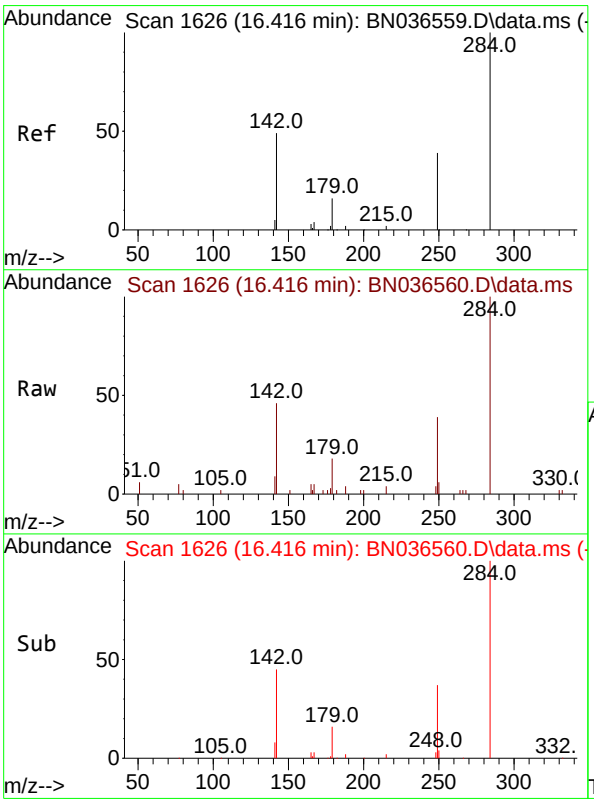
#21
4-Bromophenyl-phenylether
Concen: 0.761 ng
RT: 16.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:248 Resp: 3324

Ion	Ratio	Lower	Upper
248	100		
250	96.2	73.0	109.6
141	77.7	68.6	103.0

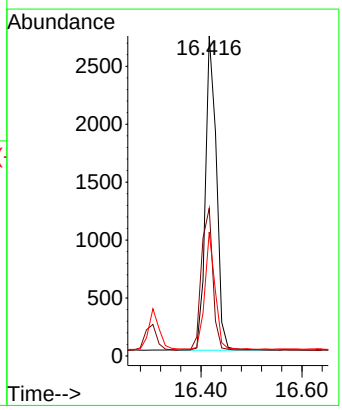


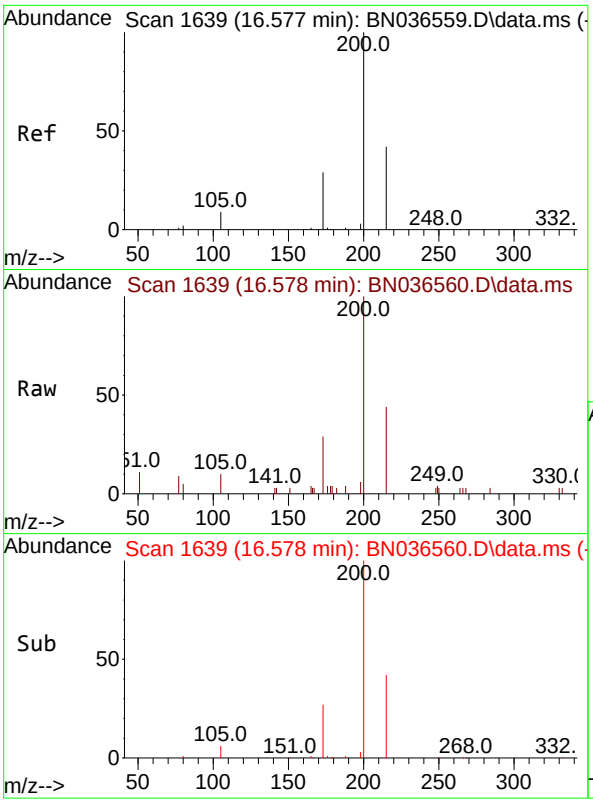


#22
Hexachlorobenzene
Concen: 0.780 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion:284 Resp: 4115

Ion	Ratio	Lower	Upper
284	100		
142	47.2	37.0	55.4
249	34.7	28.1	42.1



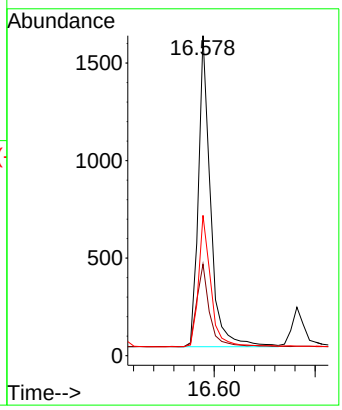


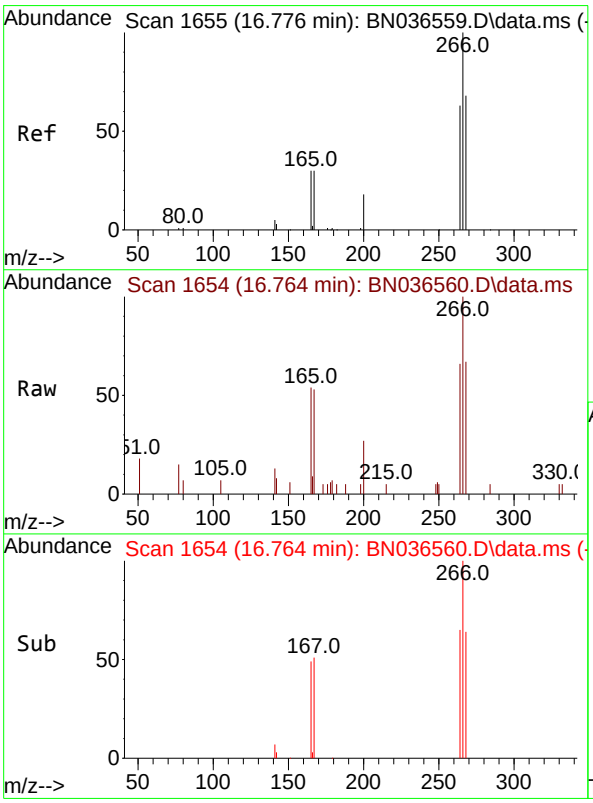
#23
Atrazine
Concen: 0.764 ng
RT: 16.578 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:200 Resp: 2677

Ion	Ratio	Lower	Upper
200	100		
173	28.6	27.3	40.9
215	43.8	36.8	55.2

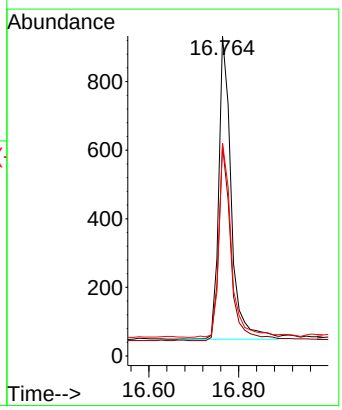


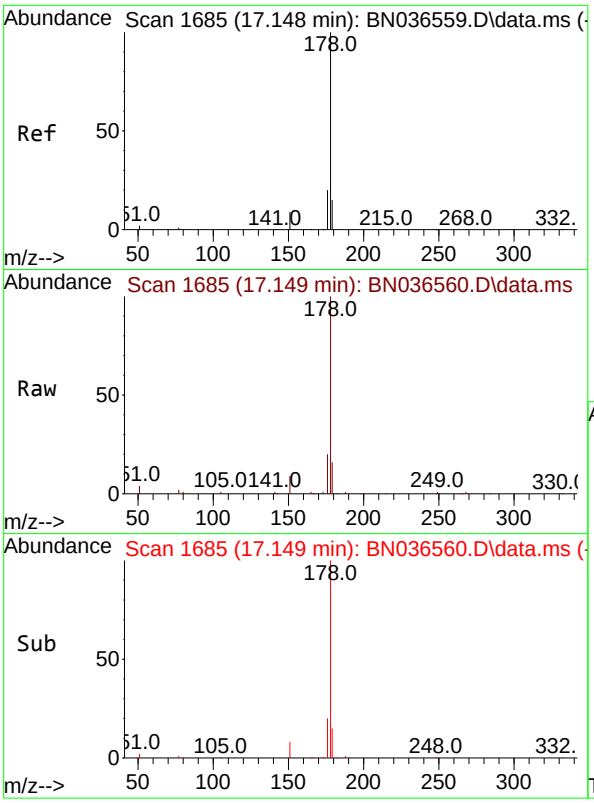


#24
Pentachlorophenol
Concen: 0.707 ng
RT: 16.764 min Scan# 1654
Delta R.T. -0.012 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion:266 Resp: 1701

Ion	Ratio	Lower	Upper
266	100		
264	63.5	49.6	74.4
268	65.1	50.9	76.3



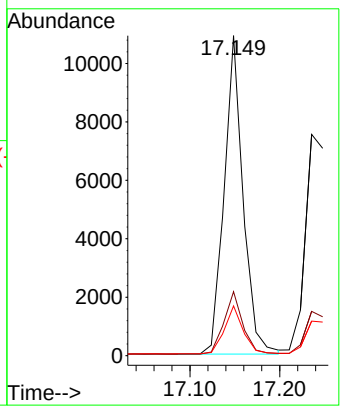


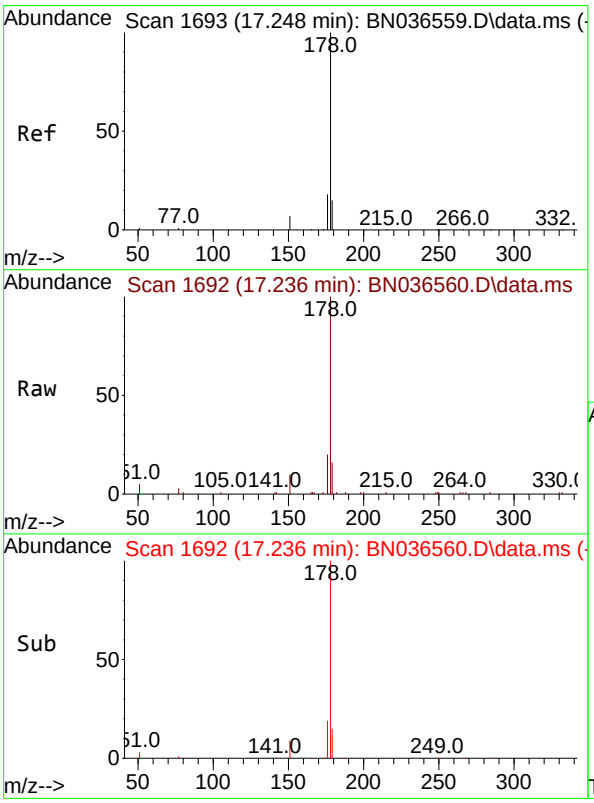
#25
Phenanthrene
Concen: 0.761 ng
RT: 17.149 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:178 Resp: 15910

Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.9	23.9
179	15.1	12.2	18.4

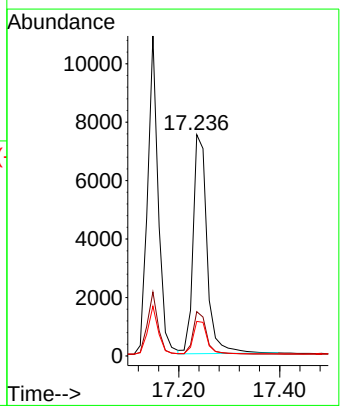


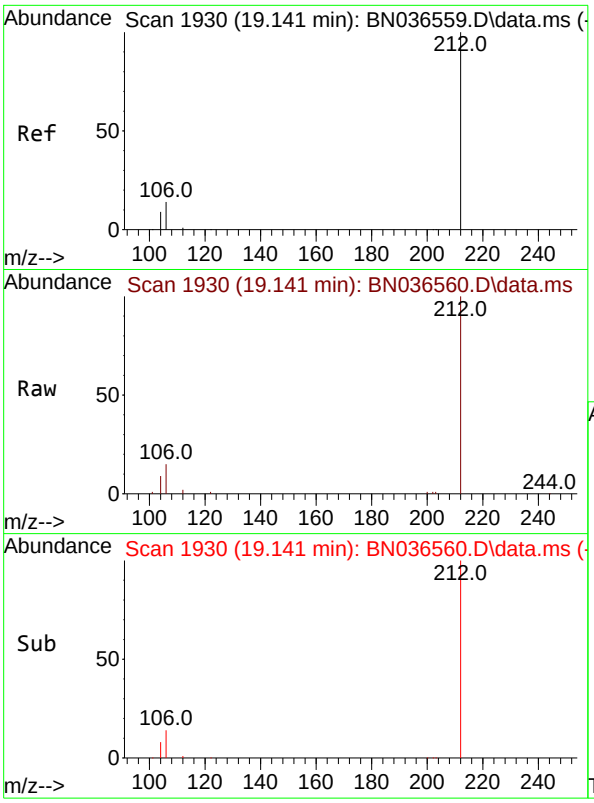


#26
Anthracene
Concen: 0.763 ng
RT: 17.236 min Scan# 1692
Delta R.T. -0.012 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion:178 Resp: 14403

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.4	23.2
179	15.1	12.6	18.8



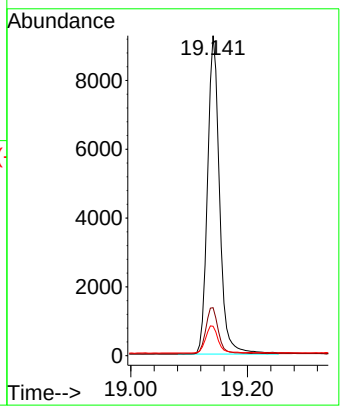


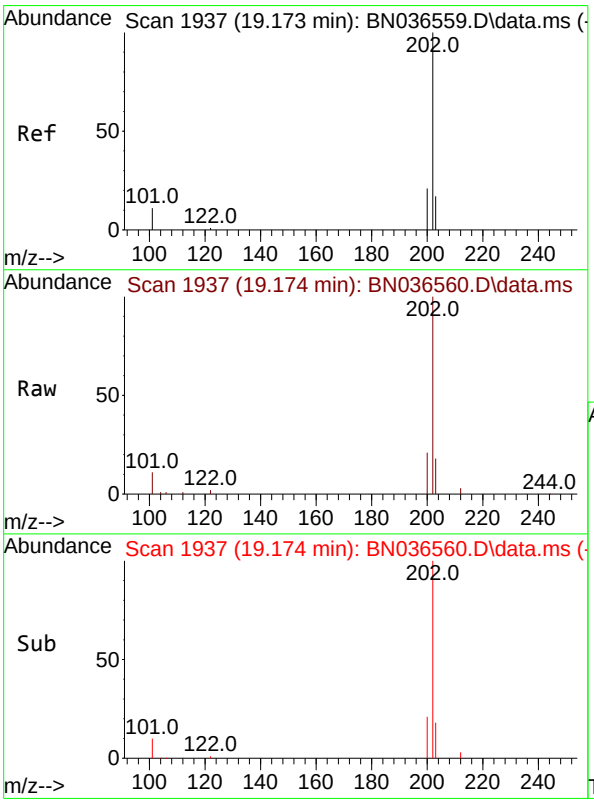
#27
Fluoranthene-d10
Concen: 0.746 ng
RT: 19.141 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:212 Resp: 13330

Ion	Ratio	Lower	Upper
212	100		
106	15.2	11.8	17.6
104	8.9	7.3	10.9

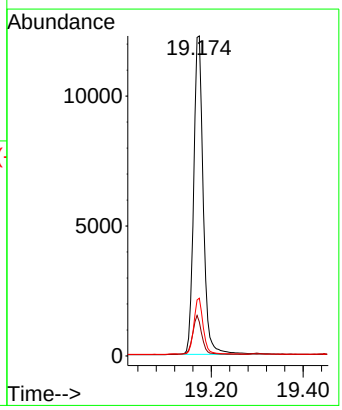


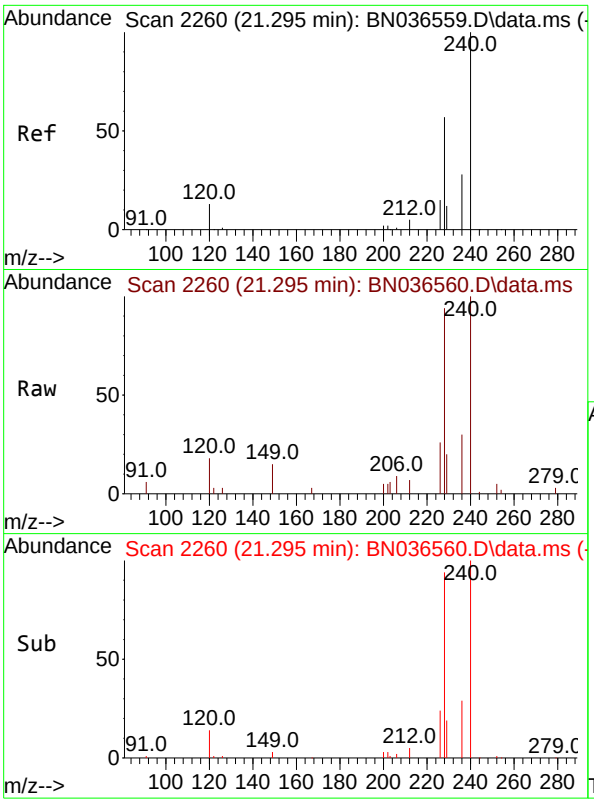


#28
Fluoranthene
Concen: 0.755 ng
RT: 19.174 min Scan# 1937
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion:202 Resp: 17738

Ion	Ratio	Lower	Upper
202	100		
101	12.1	9.4	14.0
203	17.0	13.5	20.3



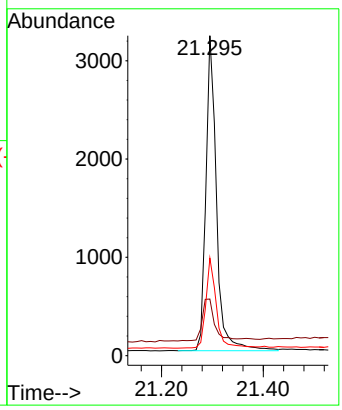


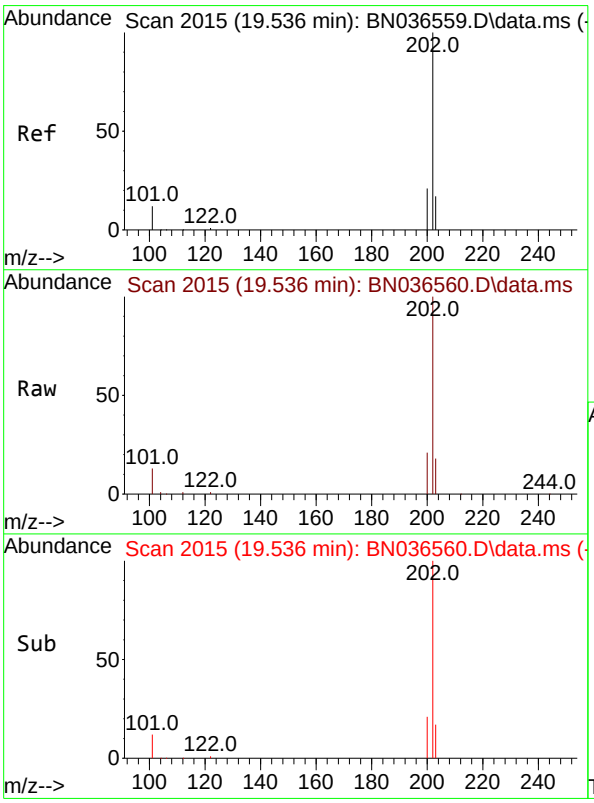
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:240 Resp: 4636

Ion	Ratio	Lower	Upper
240	100		
120	17.7	14.6	22.0
236	30.5	24.1	36.1

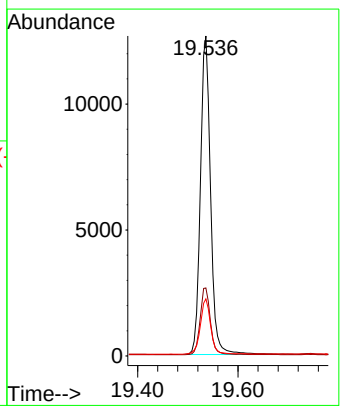


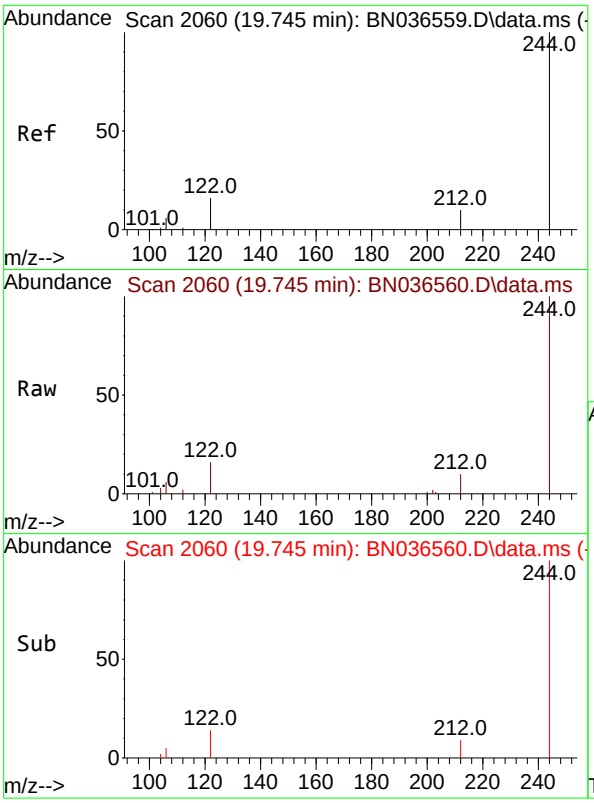


#30
Pyrene
Concen: 0.781 ng
RT: 19.536 min Scan# 2015
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion:202 Resp: 17714

Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.1	25.7
203	17.5	14.1	21.1



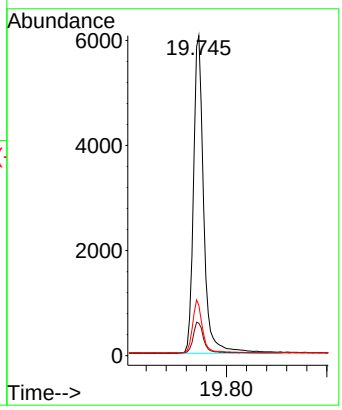


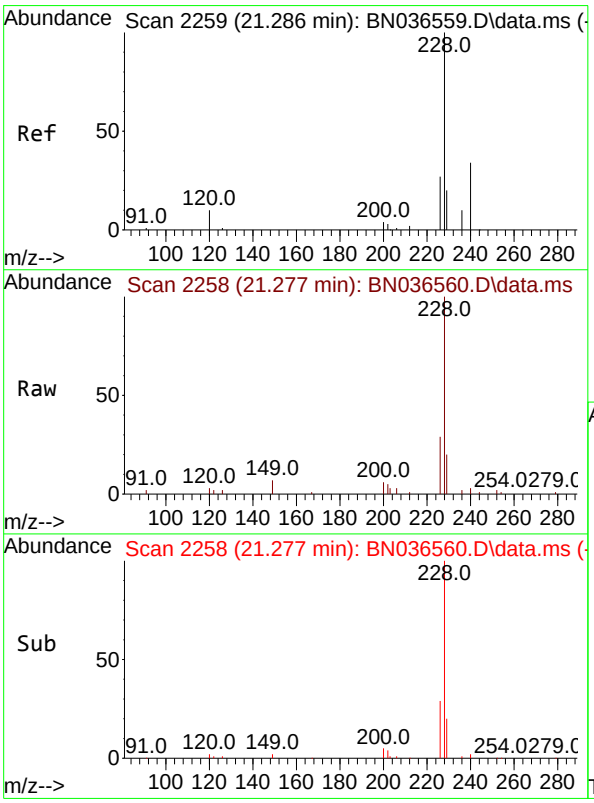
#31
Terphenyl-d14
Concen: 0.772 ng
RT: 19.745 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:244 Resp: 8571

Ion	Ratio	Lower	Upper
244	100		
212	10.1	9.6	14.4
122	15.8	13.9	20.9

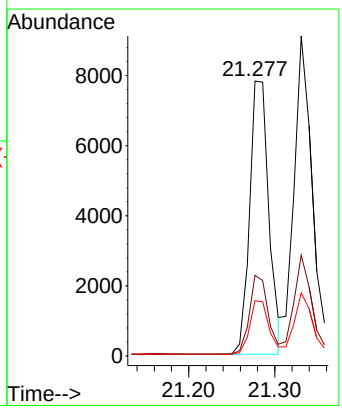


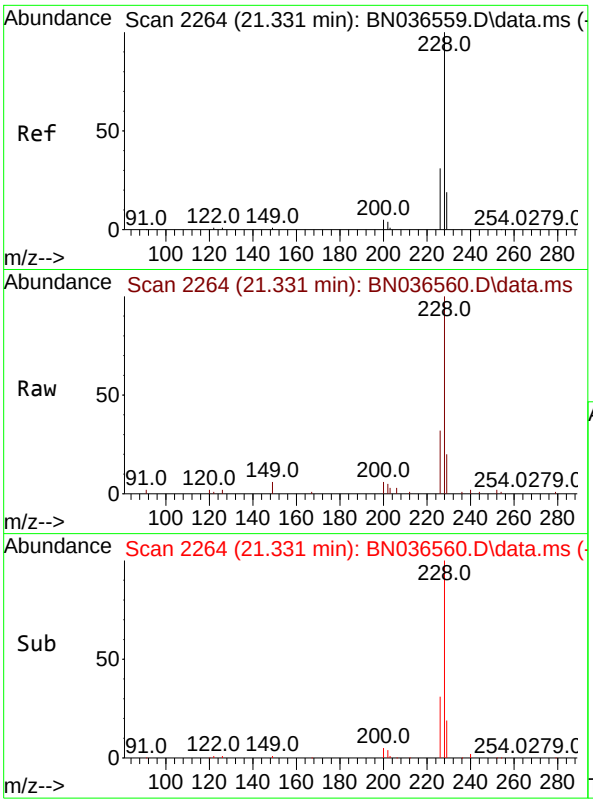


#32
Benzo(a)anthracene
Concen: 0.750 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.009 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion:228 Resp: 12089

Ion	Ratio	Lower	Upper
228	100		
226	29.3	22.5	33.7
229	20.1	16.6	25.0



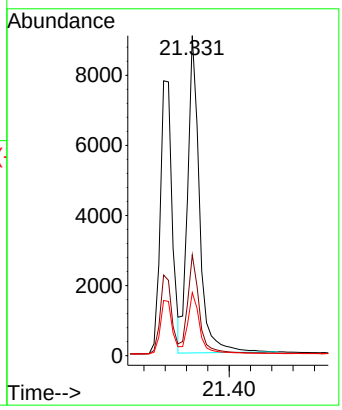


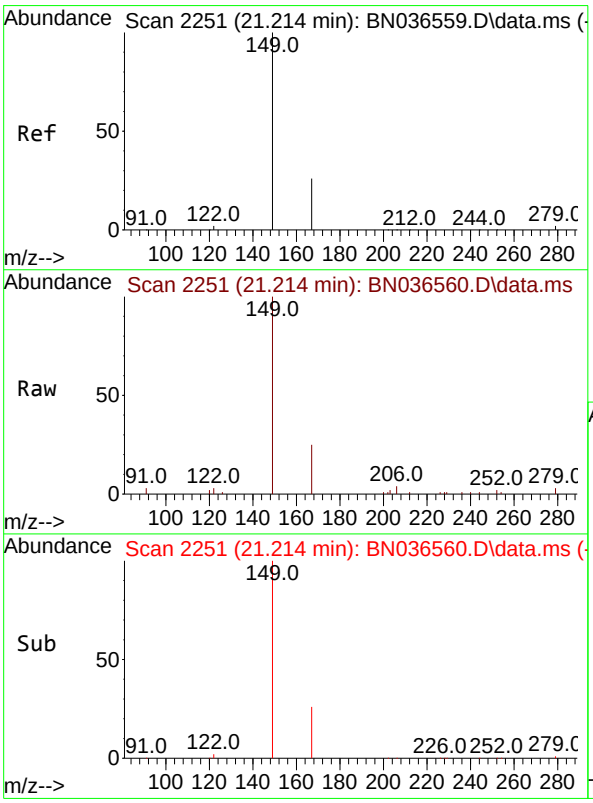
#33
Chrysene
Concen: 0.793 ng
RT: 21.331 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:228 Resp: 13974

Ion	Ratio	Lower	Upper
228	100		
226	31.5	25.3	37.9
229	19.7	15.8	23.8

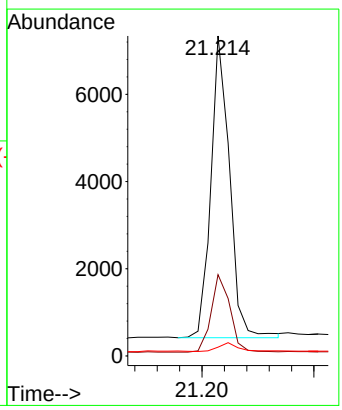


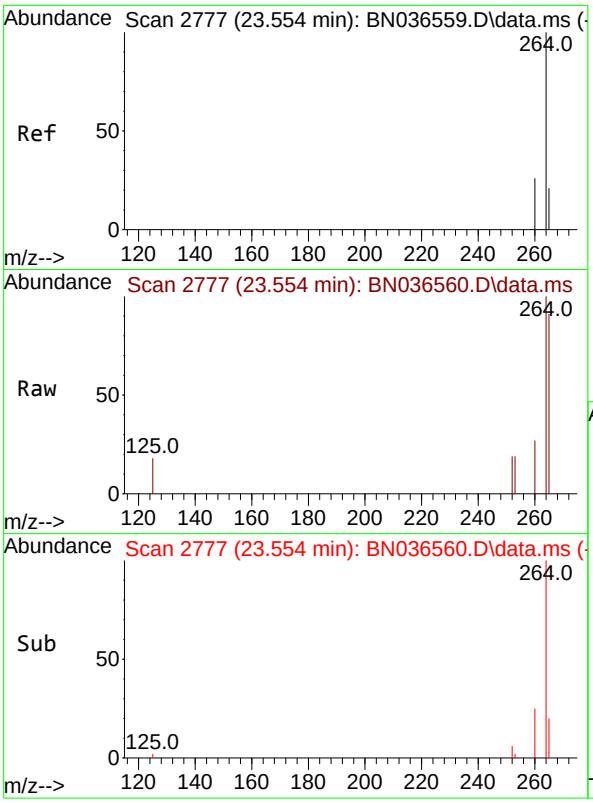


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.699 ng
RT: 21.214 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion:149 Resp: 8021

Ion	Ratio	Lower	Upper
149	100		
167	25.9	20.7	31.1
279	3.2	3.6	5.4#



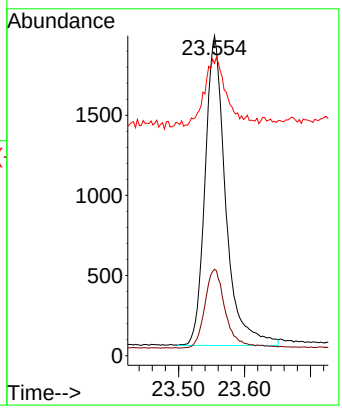


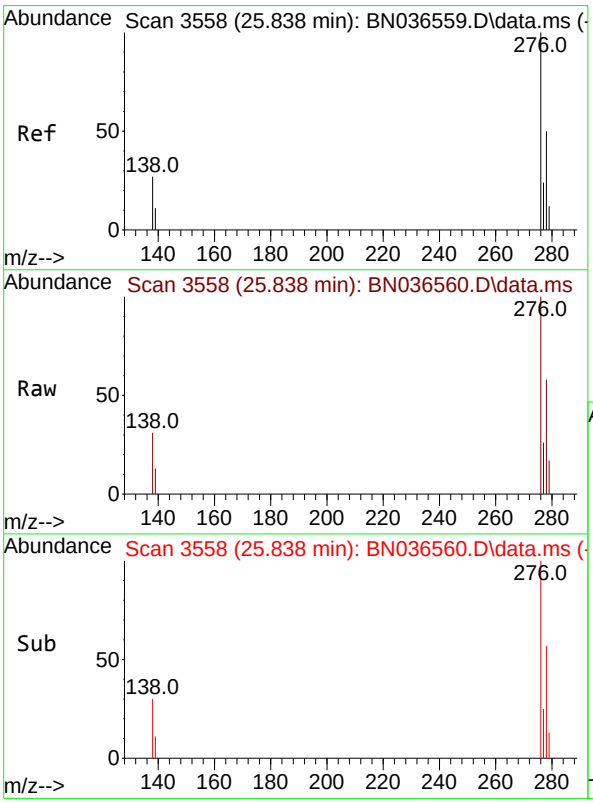
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.554 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:264 Resp: 4198

Ion	Ratio	Lower	Upper
264	100		
260	27.0	22.6	33.8
265	91.3	88.1	132.1

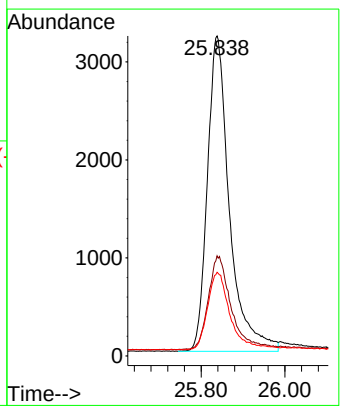


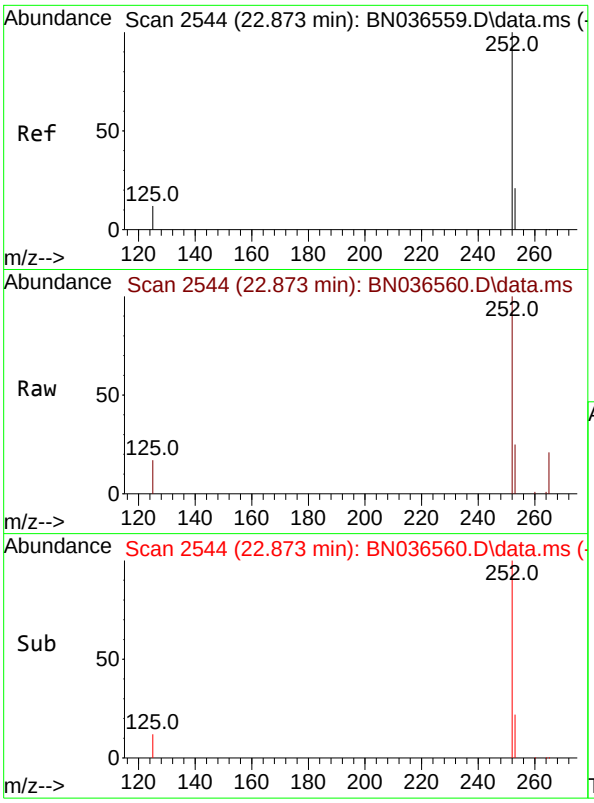


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.778 ng
RT: 25.838 min Scan# 3558
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion:276 Resp: 11785

Ion	Ratio	Lower	Upper
276	100		
138	29.6	23.4	35.2
277	24.7	20.0	30.0



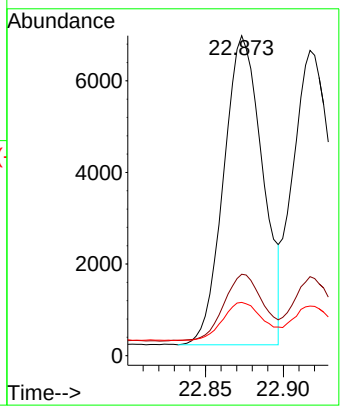


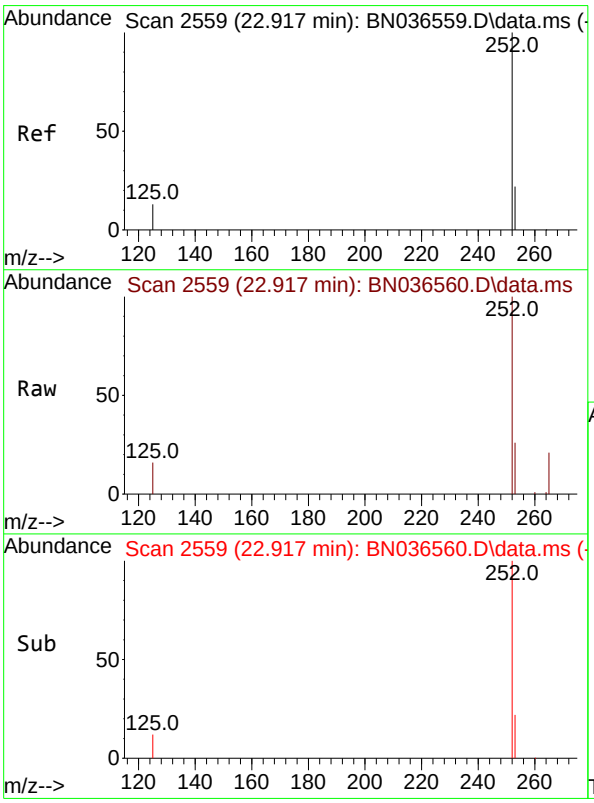
#37
Benzo(b)fluoranthene
Concen: 0.770 ng
RT: 22.873 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:252 Resp: 11771

Ion	Ratio	Lower	Upper
252	100		
253	25.5	23.9	35.9
125	16.7	17.4	26.2#

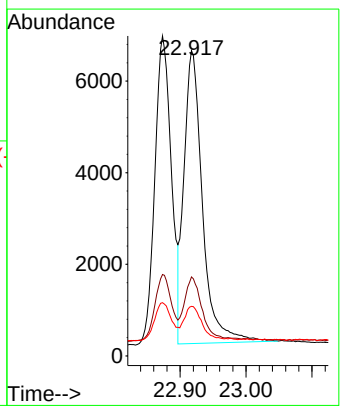


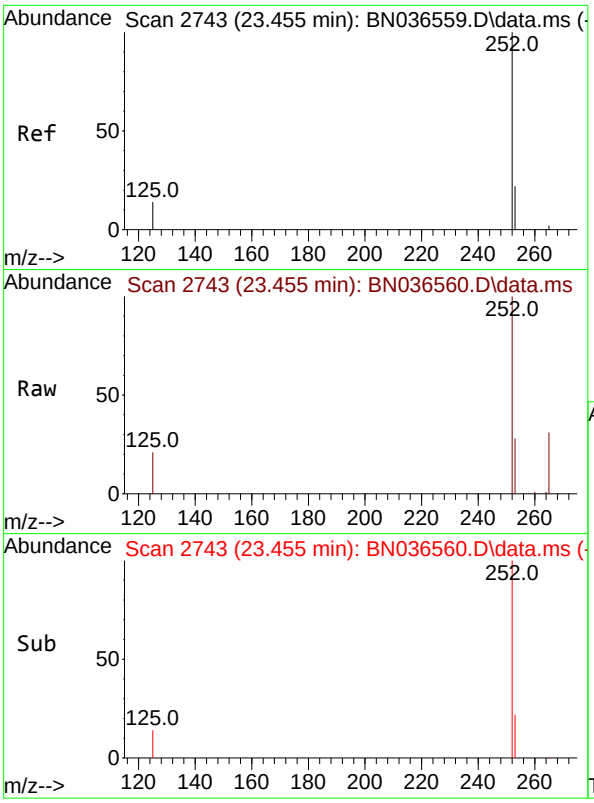


#38
Benzo(k)fluoranthene
Concen: 0.776 ng
RT: 22.917 min Scan# 2559
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion:252 Resp: 12432

Ion	Ratio	Lower	Upper
252	100		
253	25.9	24.6	36.8
125	16.2	17.8	26.8#



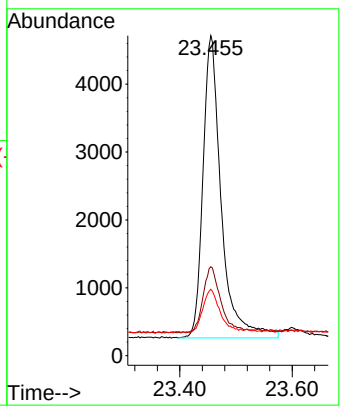


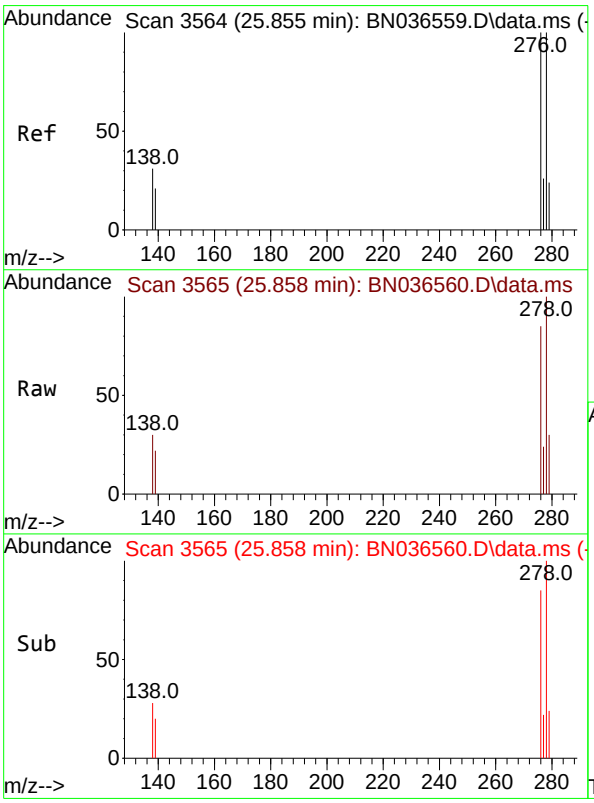
#39
Benzo(a)pyrene
Concen: 0.780 ng
RT: 23.455 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:252 Resp: 10036

Ion	Ratio	Lower	Upper
252	100		
253	27.8	27.8	41.8#
125	20.7	22.7	34.1#

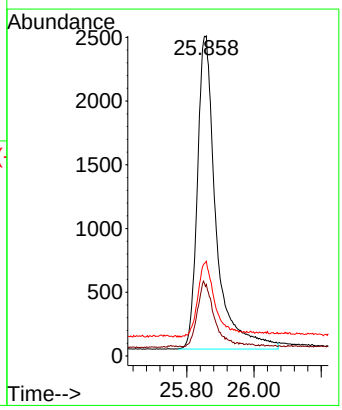


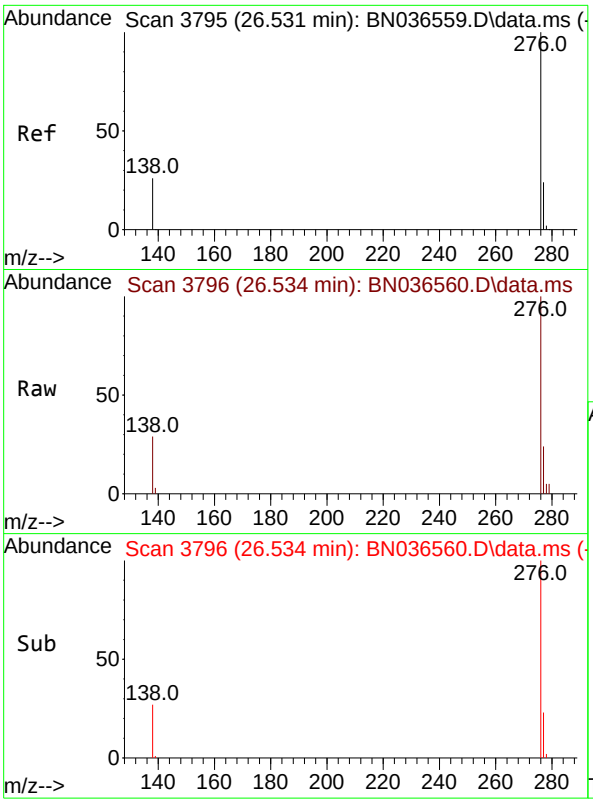


#40
Dibenzo(a,h)anthracene
Concen: 0.801 ng
RT: 25.858 min Scan# 3565
Delta R.T. 0.003 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion:278 Resp: 9450

Ion	Ratio	Lower	Upper
278	100		
139	22.3	20.8	31.2
279	29.6	28.8	43.2



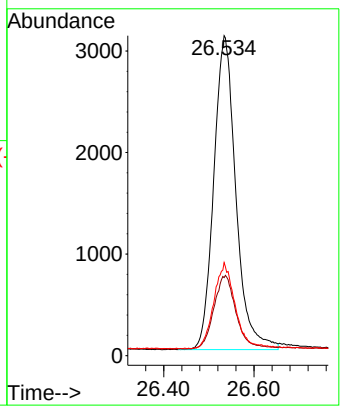


#41
Benzo(g,h,i)perylene
Concen: 0.778 ng
RT: 26.534 min Scan# 3
Delta R.T. 0.003 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:276 Resp: 10494

Ion	Ratio	Lower	Upper
276	100		
277	24.4	22.2	33.4
138	29.1	24.1	36.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036561.D
Acq On : 10 Mar 2025 14:07
Operator : RC/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Quant Time: Mar 10 16:02:21 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:54:23 2025
Response via : Initial Calibration

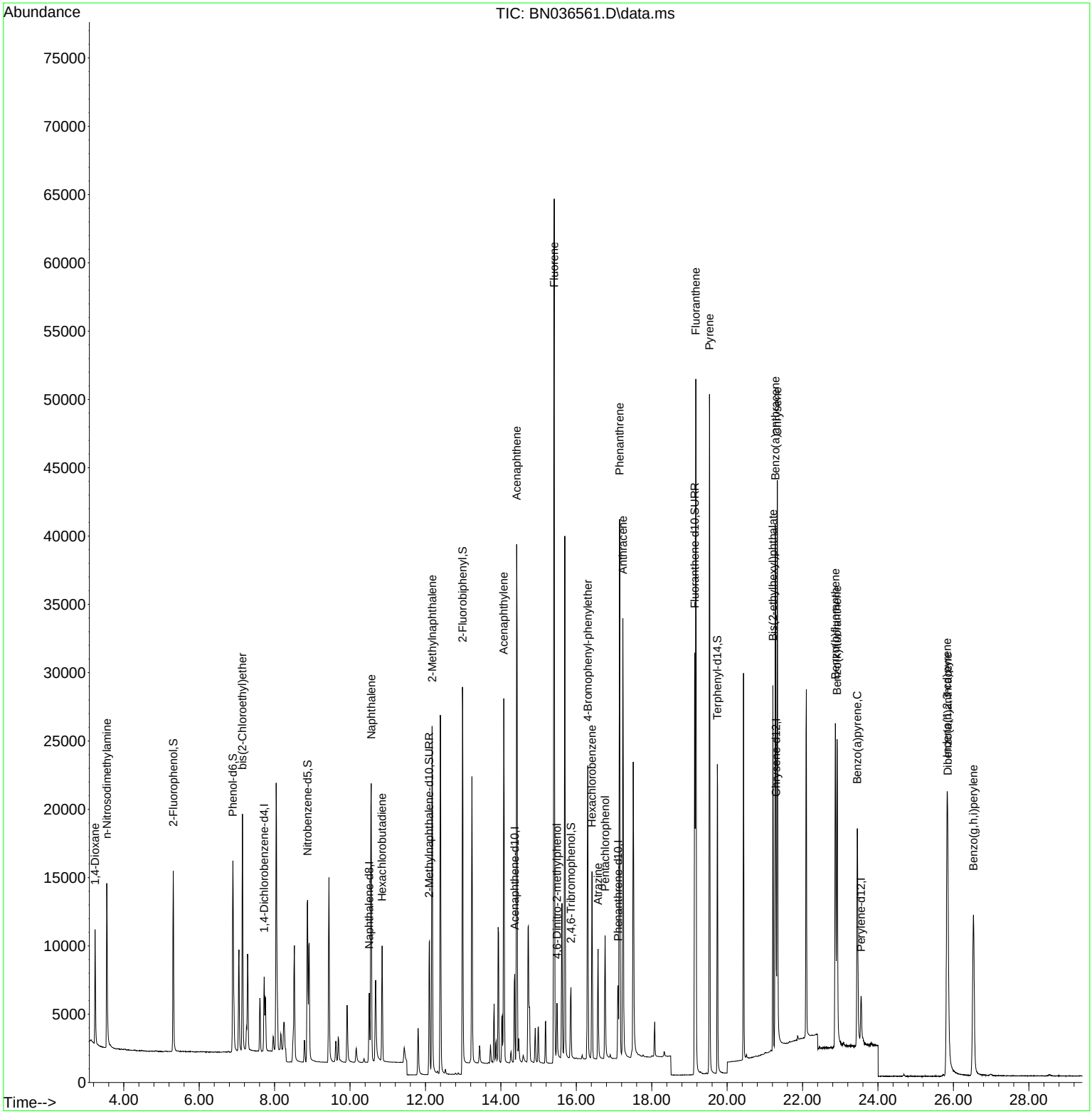
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.724	152	2537	0.400	ng		0.00
7) Naphthalene-d8	10.509	136	6200	0.400	ng		0.00
13) Acenaphthene-d10	14.366	164	3827	0.400	ng		0.00
19) Phenanthrene-d10	17.111	188	8149	0.400	ng		0.00
29) Chrysene-d12	21.295	240	5977	0.400	ng		# 0.00
35) Perylene-d12	23.552	264	5048	0.400	ng		# 0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.312	112	9276	1.569	ng		0.00
5) Phenol-d6	6.894	99	11493	1.574	ng		0.00
8) Nitrobenzene-d5	8.875	82	9959	1.477	ng		0.00
11) 2-Methylnaphthalene-d10	12.101	152	14319	1.553	ng		0.00
14) 2,4,6-Tribromophenol	15.858	330	2872	1.654	ng		0.00
15) 2-Fluorobiphenyl	12.983	172	36192	1.626	ng		0.00
27) Fluoranthene-d10	19.141	212	33414	1.600	ng		0.00
31) Terphenyl-d14	19.740	244	21872	1.527	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.239	88	4464	1.586	ng		98
3) n-Nitrosodimethylamine	3.550	42	8625	1.515	ng	#	96
6) bis(2-Chloroethyl)ether	7.147	93	11485	1.521	ng		99
9) Naphthalene	10.562	128	27473	1.506	ng		97
10) Hexachlorobutadiene	10.851	225	6466	1.506	ng	#	99
12) 2-Methylnaphthalene	12.177	142	18206	1.569	ng		98
16) Acenaphthylene	14.078	152	28080	1.555	ng		100
17) Acenaphthene	14.420	154	18355	1.553	ng		98
18) Fluorene	15.414	166	25565	1.599	ng		99
20) 4,6-Dinitro-2-methylph...	15.489	198	2879	1.488	ng	#	64
21) 4-Bromophenyl-phenylether	16.305	248	7859	1.539	ng	#	85
22) Hexachlorobenzene	16.416	284	9216	1.495	ng		100
23) Atrazine	16.578	200	6530	1.595	ng	#	91
24) Pentachlorophenol	16.764	266	4395	1.563	ng		99
25) Phenanthrene	17.149	178	37989	1.554	ng		99
26) Anthracene	17.235	178	35054	1.589	ng		99
28) Fluoranthene	19.169	202	44451	1.619	ng		99
30) Pyrene	19.531	202	44705	1.530	ng		100
32) Benzo(a)anthracene	21.277	228	32205	1.550	ng		98
33) Chrysene	21.331	228	34953	1.539	ng		99
34) Bis(2-ethylhexyl)phtha...	21.214	149	22621	1.529	ng	#	99
36) Indeno(1,2,3-cd)pyrene	25.832	276	28605	1.570	ng		99
37) Benzo(b)fluoranthene	22.870	252	29819	1.623	ng	#	86
38) Benzo(k)fluoranthene	22.917	252	30710	1.593	ng	#	85
39) Benzo(a)pyrene	23.452	252	24696	1.596	ng	#	79
40) Dibenzo(a,h)anthracene	25.850	278	22248	1.569	ng	#	85
41) Benzo(g,h,i)perylene	26.531	276	24906	1.535	ng		93

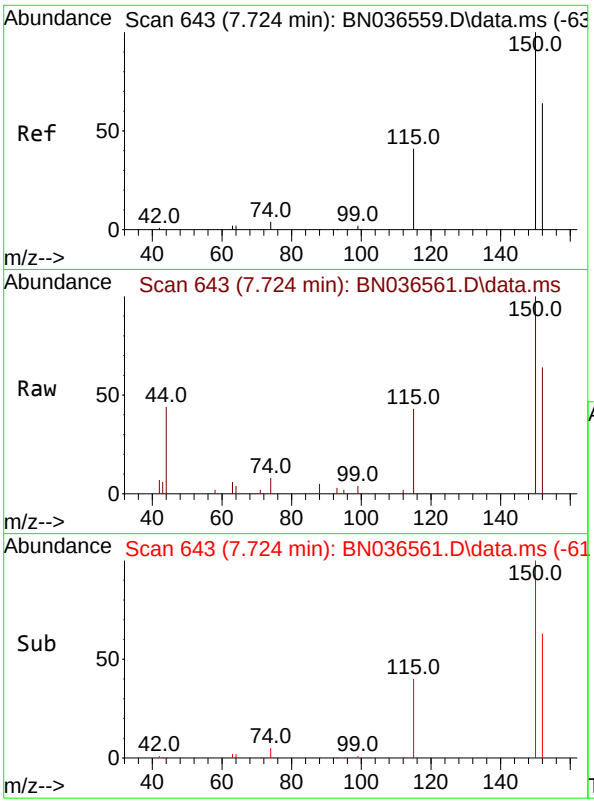
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036561.D
Acq On : 10 Mar 2025 14:07
Operator : RC/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Quant Time: Mar 10 16:02:21 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:54:23 2025
Response via : Initial Calibration



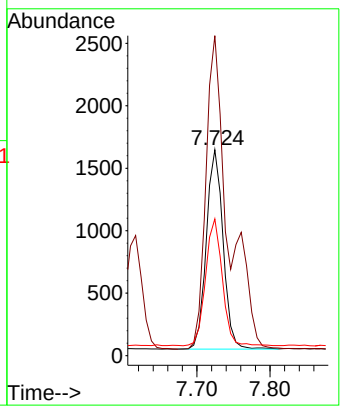


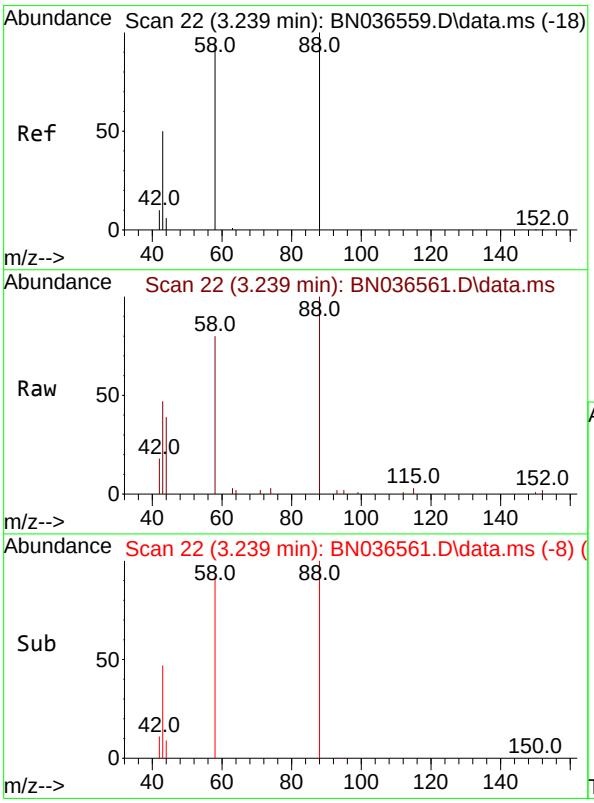
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:152 Resp: 2537

Ion	Ratio	Lower	Upper
152	100		
150	155.4	123.7	185.5
115	66.4	54.3	81.5

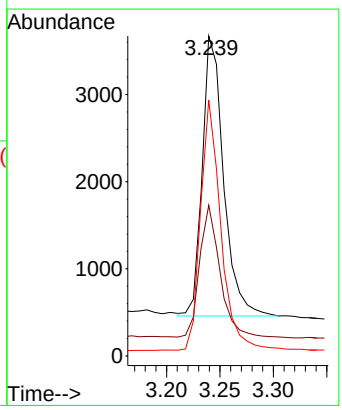


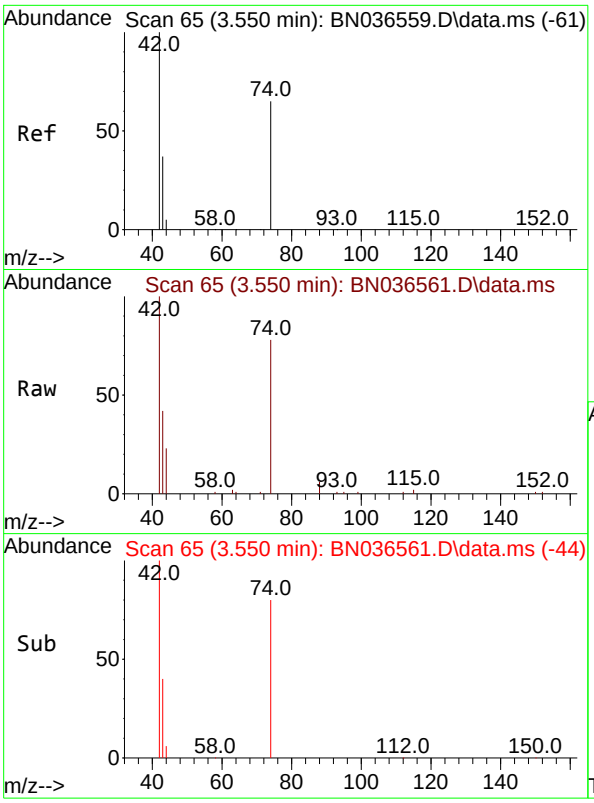


#2
1,4-Dioxane
Concen: 1.586 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion: 88 Resp: 4464

Ion	Ratio	Lower	Upper
88	100		
43	45.1	37.8	56.8
58	85.6	67.4	101.2



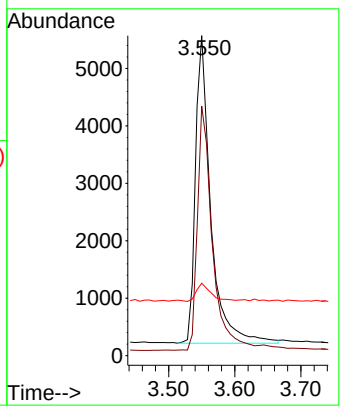


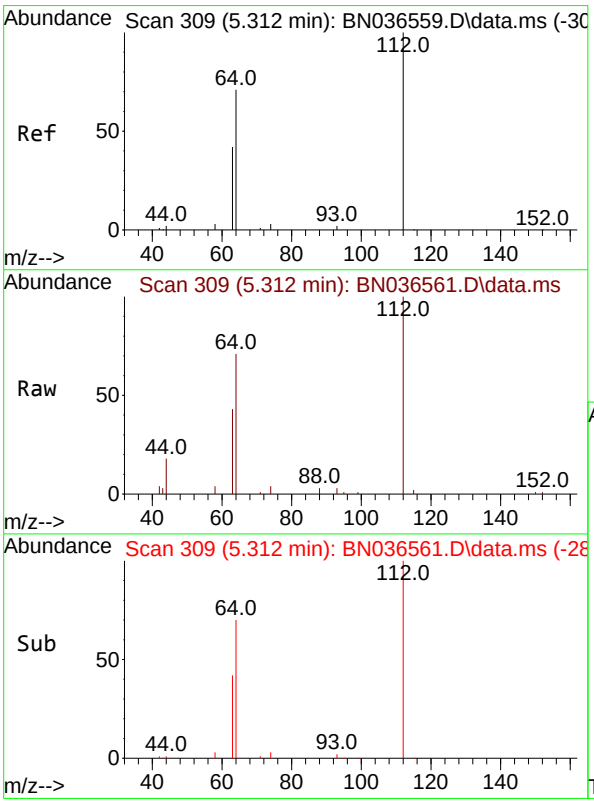
#3
n-Nitrosodimethylamine
Concen: 1.515 ng
RT: 3.550 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion: 42 Resp: 8625

Ion	Ratio	Lower	Upper
42	100		
74	79.2	60.6	90.8
44	5.8	6.3	9.5#

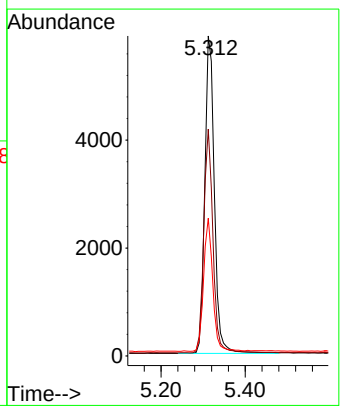


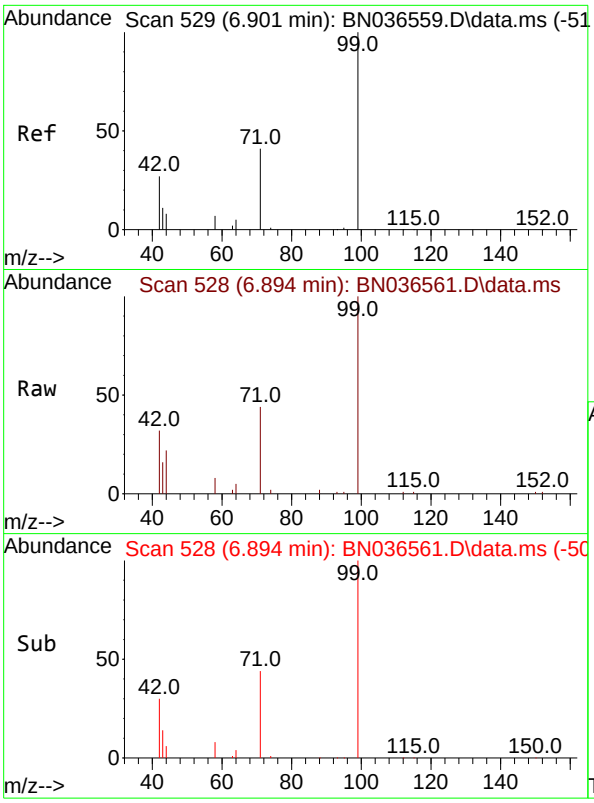


#4
2-Fluorophenol
Concen: 1.569 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion:112 Resp: 9276

Ion	Ratio	Lower	Upper
112	100		
64	68.3	53.1	79.7
63	40.1	31.8	47.8



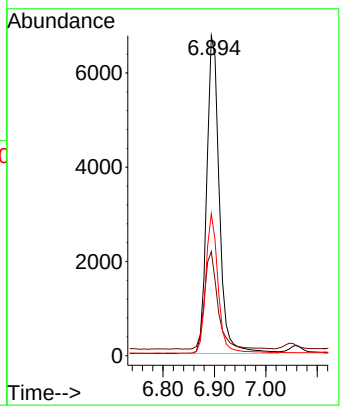


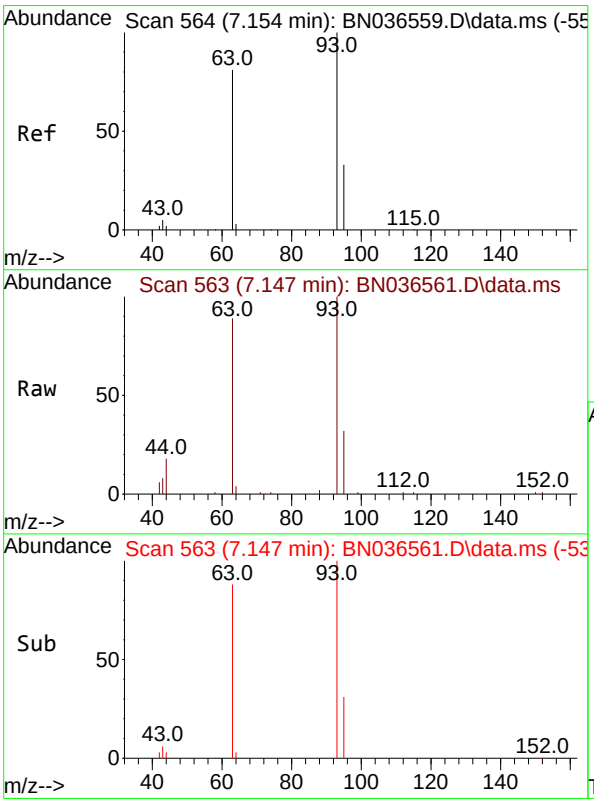
#5
Phenol-d6
Concen: 1.574 ng
RT: 6.894 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion: 99 Resp: 11493

Ion	Ratio	Lower	Upper
99	100		
42	32.6	26.5	39.7
71	43.3	34.1	51.1

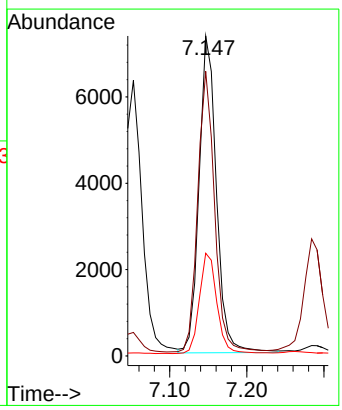


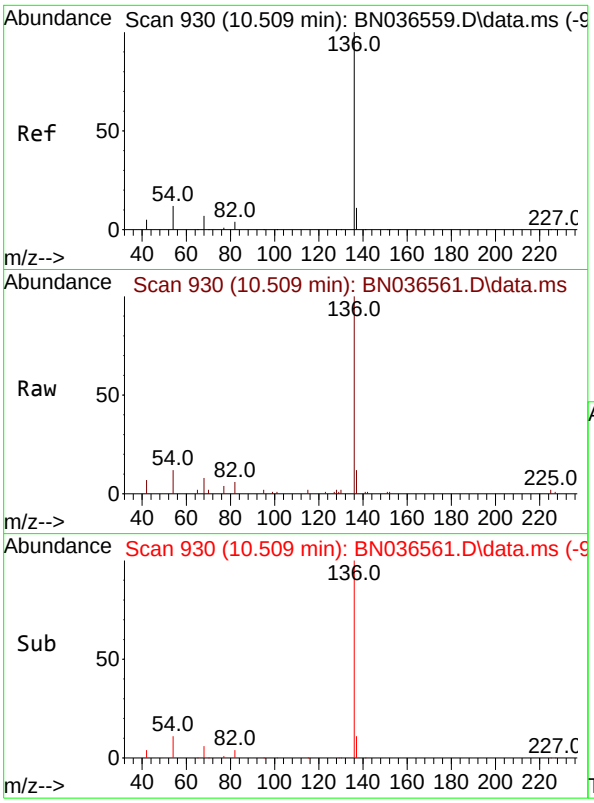


#6
bis(2-Chloroethyl)ether
Concen: 1.521 ng
RT: 7.147 min Scan# 563
Delta R.T. -0.007 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion: 93 Resp: 11485

Ion	Ratio	Lower	Upper
93	100		
63	85.8	67.7	101.5
95	31.8	25.6	38.4



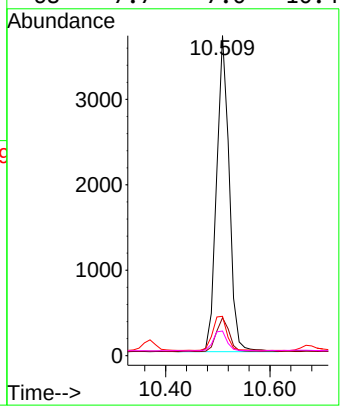


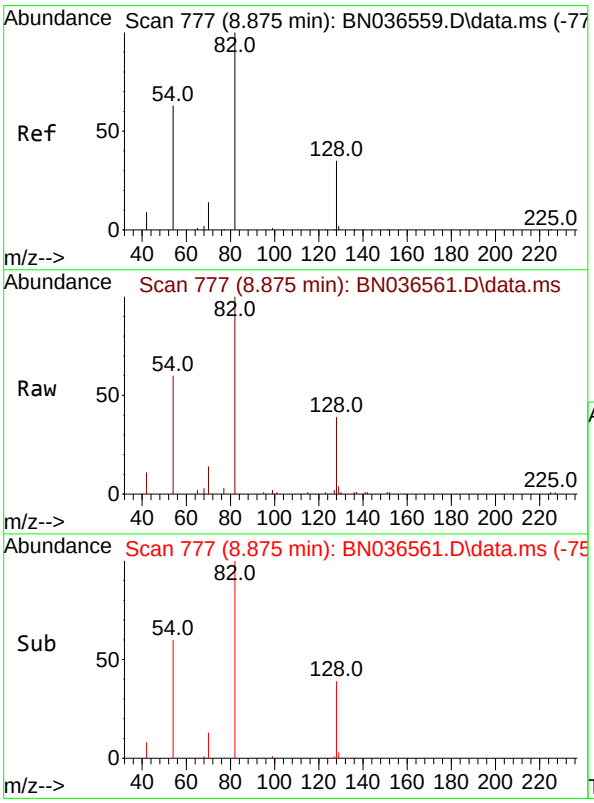
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:136 Resp: 6200

Ion	Ratio	Lower	Upper
136	100		
137	11.9	10.3	15.5
54	12.3	11.5	17.3
68	7.7	7.0	10.4

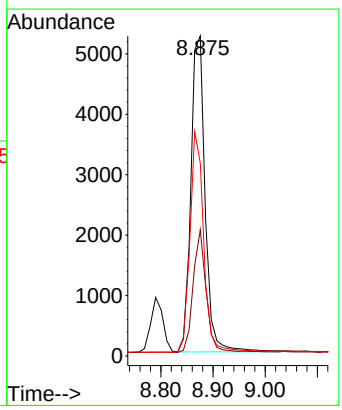


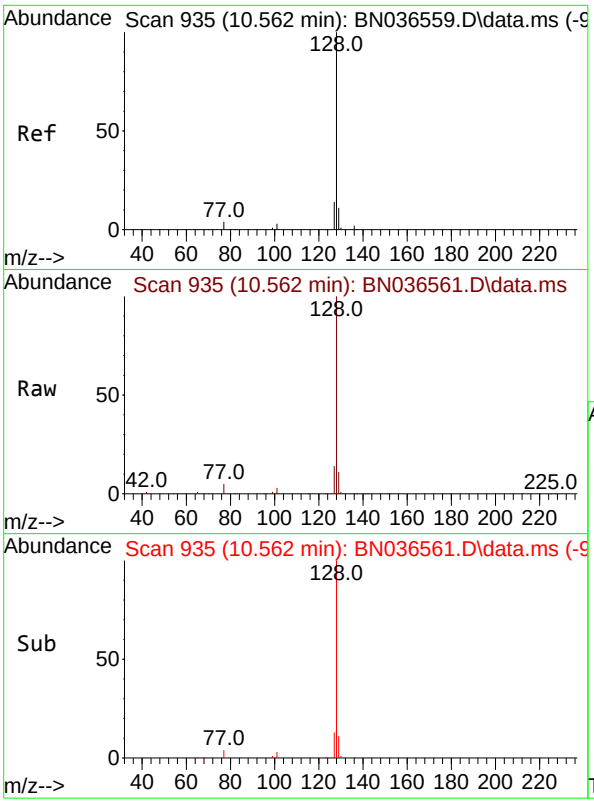


#8
Nitrobenzene-d5
Concen: 1.477 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion: 82 Resp: 9959

Ion	Ratio	Lower	Upper
82	100		
128	39.4	30.6	45.8
54	60.4	52.2	78.4



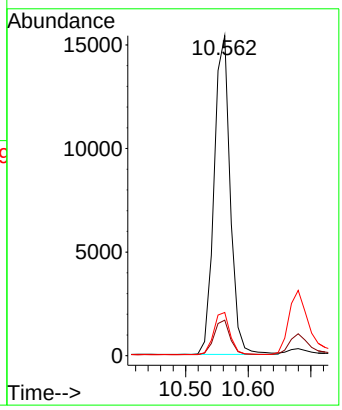


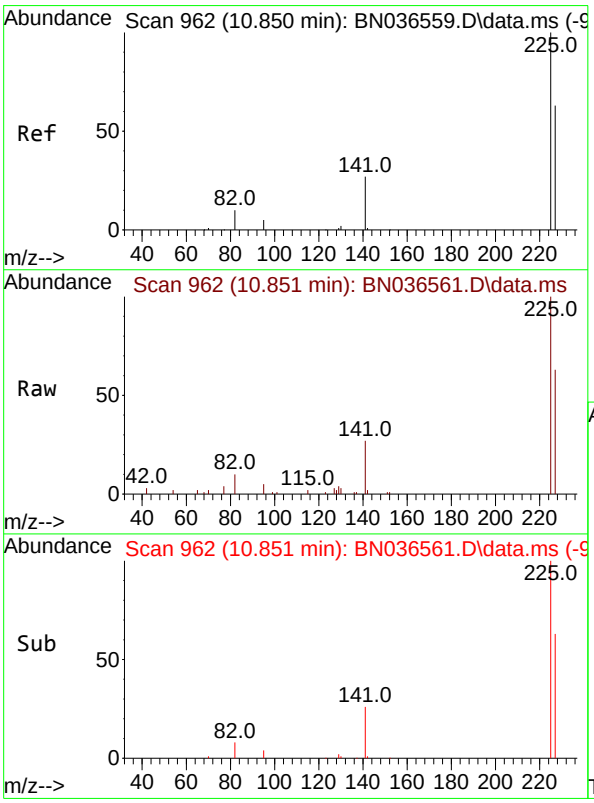
#9
Naphthalene
Concen: 1.506 ng
RT: 10.562 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:128 Resp: 27473

Ion	Ratio	Lower	Upper
128	100		
129	11.1	9.8	14.6
127	13.5	11.8	17.8

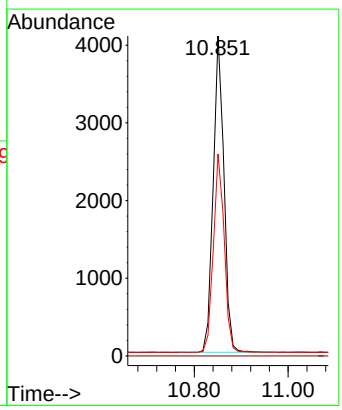


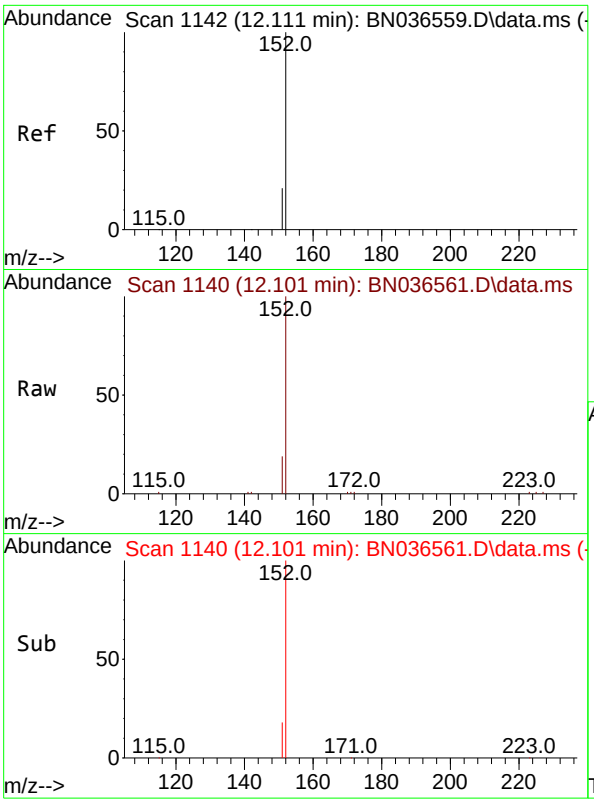


#10
Hexachlorobutadiene
Concen: 1.506 ng
RT: 10.851 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion:225 Resp: 6466

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.8	51.8	77.8



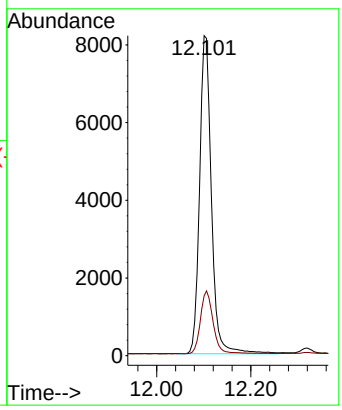


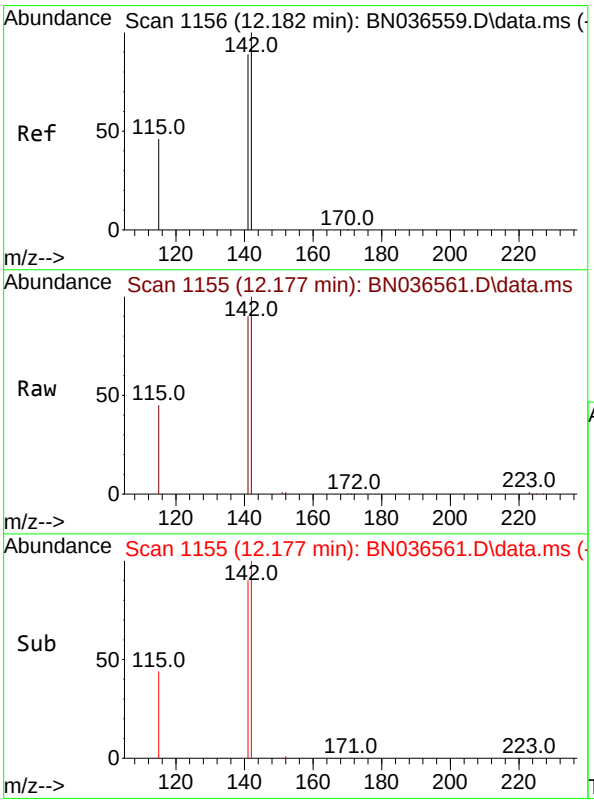
#11
2-Methylnaphthalene-d10
Concen: 1.553 ng
RT: 12.101 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:152 Resp: 14319

Ion	Ratio	Lower	Upper
152	100		
151	21.3	17.0	25.6

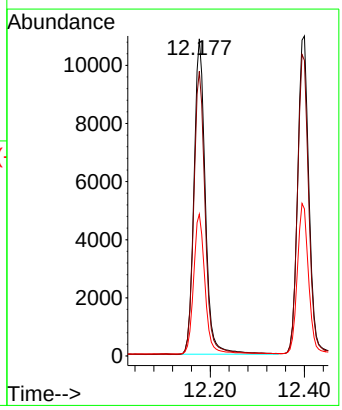


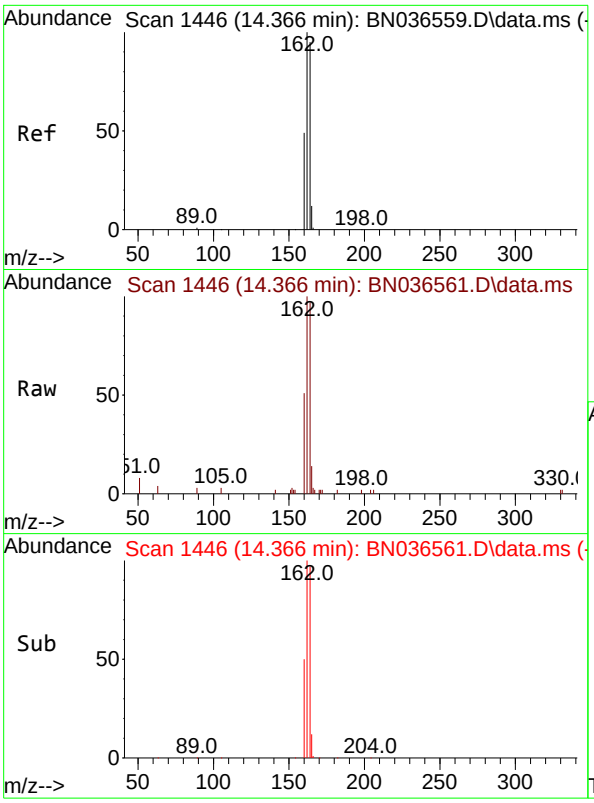


#12
2-Methylnaphthalene
Concen: 1.569 ng
RT: 12.177 min Scan# 1155
Delta R.T. -0.005 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion:142 Resp: 18206

Ion	Ratio	Lower	Upper
142	100		
141	89.7	71.7	107.5
115	44.7	38.3	57.5



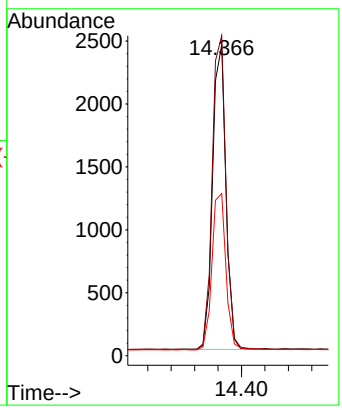


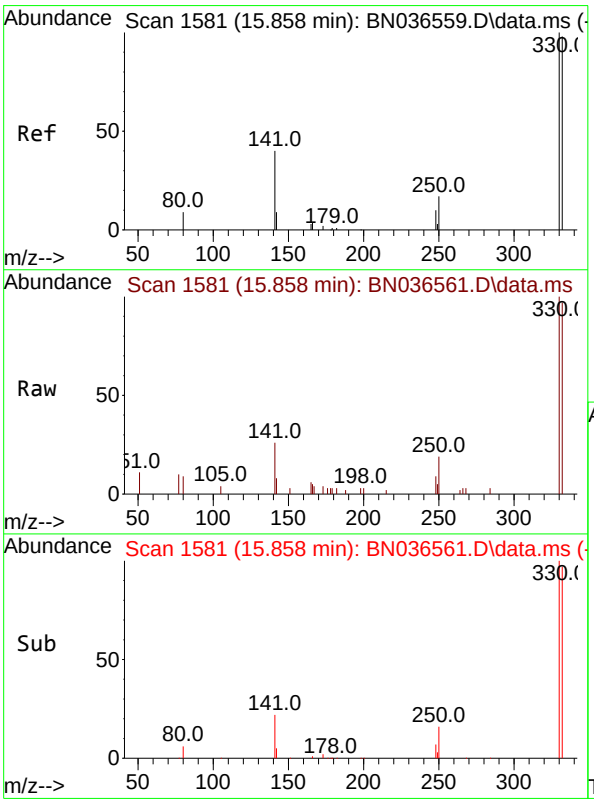
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:164 Resp: 3827

Ion	Ratio	Lower	Upper
164	100		
162	102.9	84.2	126.2
160	52.1	42.2	63.2

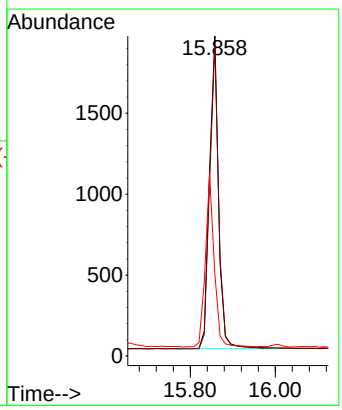


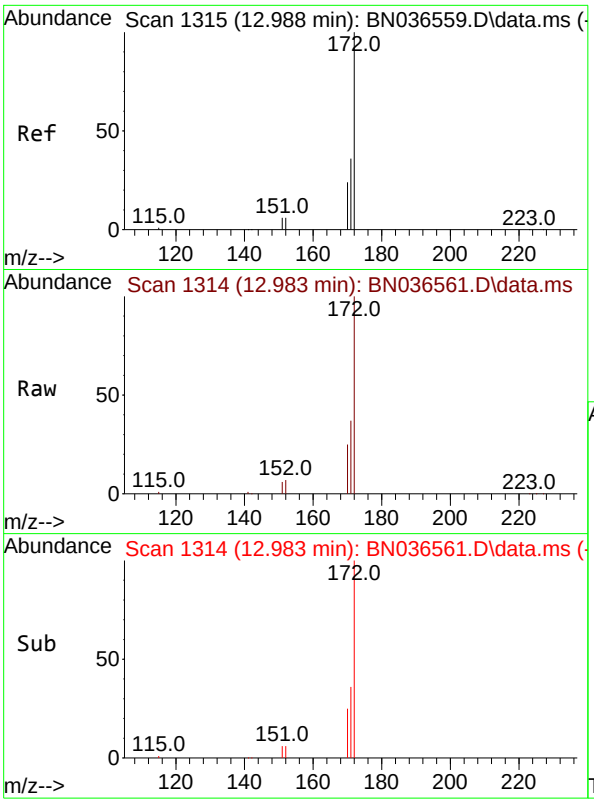


#14
2,4,6-Tribromophenol
Concen: 1.654 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion:330 Resp: 2872

Ion	Ratio	Lower	Upper
330	100		
332	96.3	75.2	112.8
141	53.8	43.4	65.2



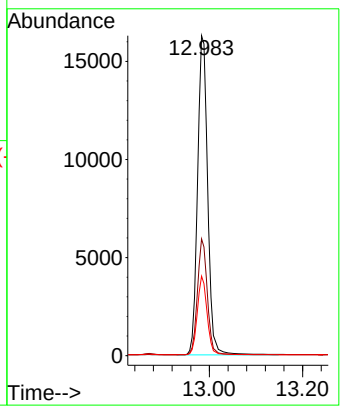


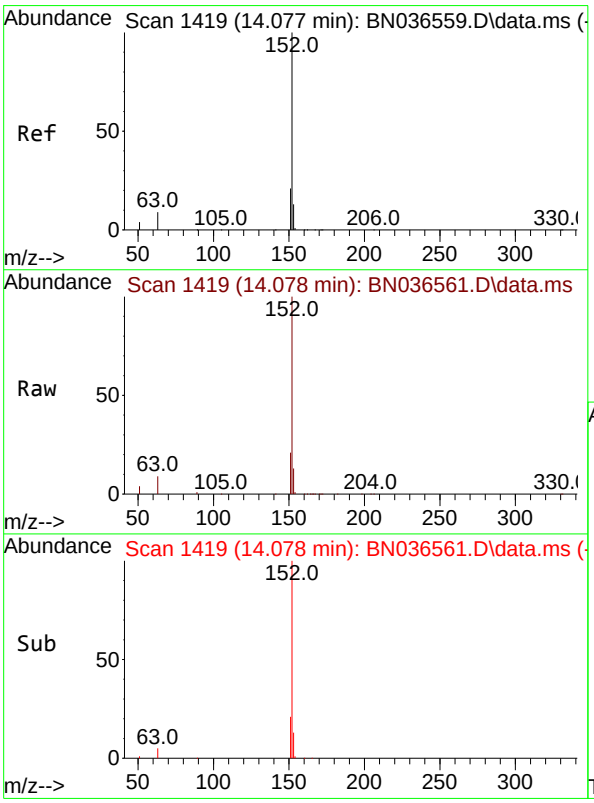
#15
2-Fluorobiphenyl
Concen: 1.626 ng
RT: 12.983 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:172 Resp: 36192

Ion	Ratio	Lower	Upper
172	100		
171	36.5	29.5	44.3
170	24.9	20.2	30.4

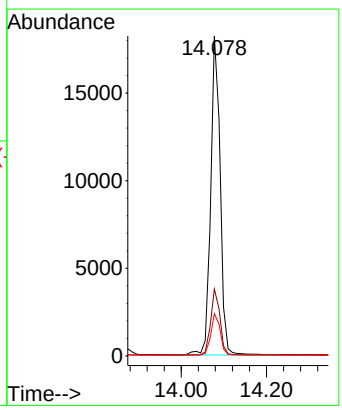


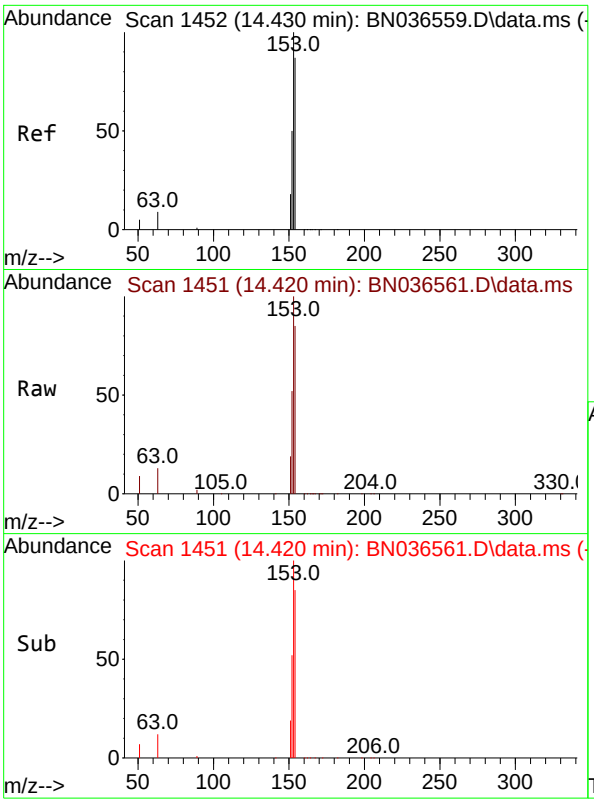


#16
Acenaphthylene
Concen: 1.555 ng
RT: 14.078 min Scan# 1419
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion:152 Resp: 28080

Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.2	24.4
153	13.0	10.6	15.8



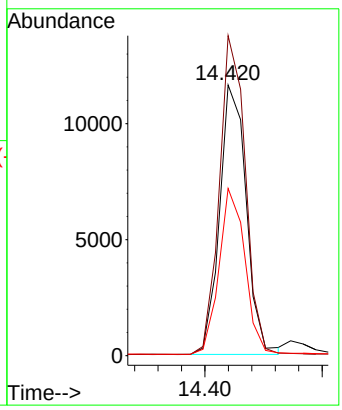


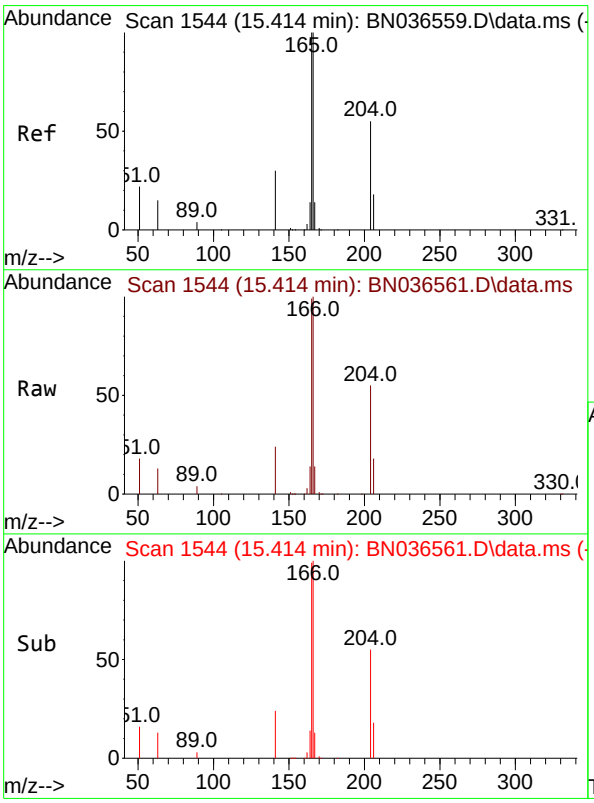
#17
Acenaphthene
Concen: 1.553 ng
RT: 14.420 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:154 Resp: 18355

Ion	Ratio	Lower	Upper
154	100		
153	115.7	94.1	141.1
152	60.3	49.8	74.6

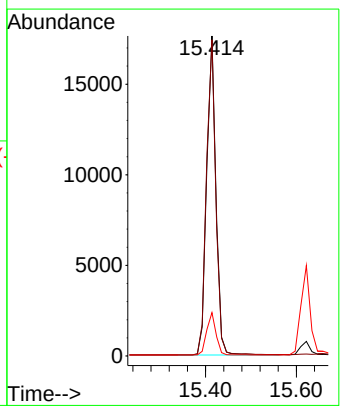


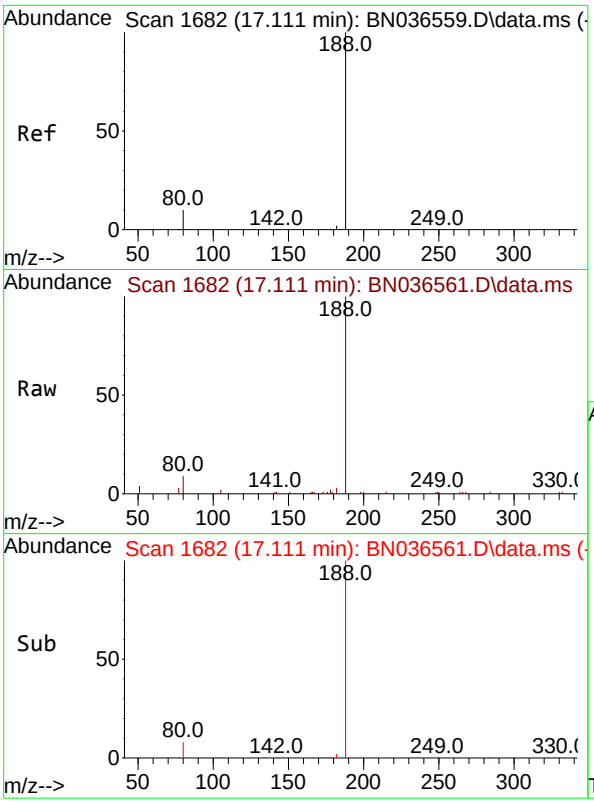


#18
Fluorene
Concen: 1.599 ng
RT: 15.414 min Scan# 1544
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion:166 Resp: 25565

Ion	Ratio	Lower	Upper
166	100		
165	100.5	79.8	119.8
167	13.1	10.6	15.8



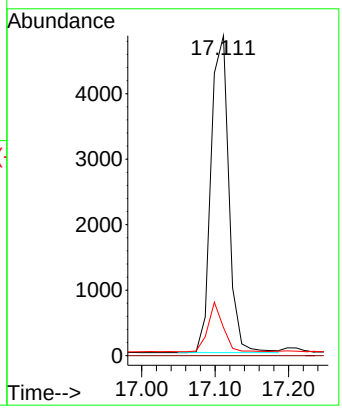


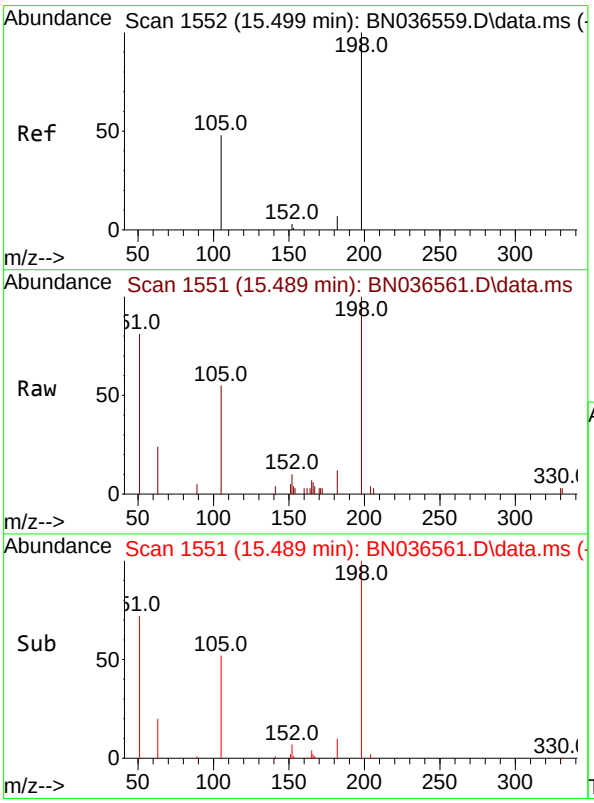
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:188 Resp: 8149

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.8	8.8	13.2

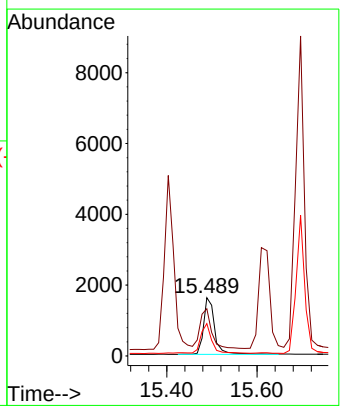


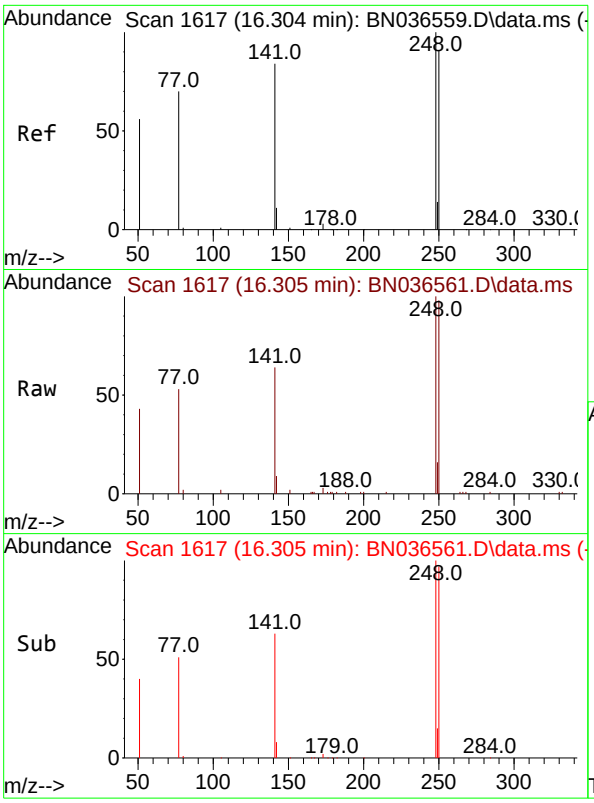


#20
4,6-Dinitro-2-methylphenol
Concen: 1.488 ng
RT: 15.489 min Scan# 1551
Delta R.T. -0.010 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion:198 Resp: 2879

Ion	Ratio	Lower	Upper
198	100		
51	81.2	107.9	161.9#
105	55.5	56.2	84.2#



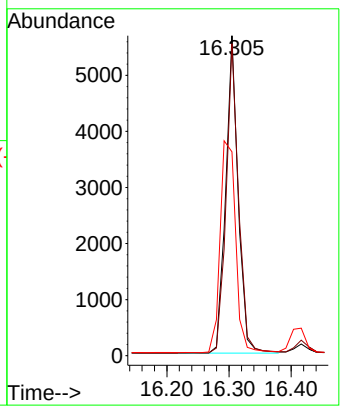


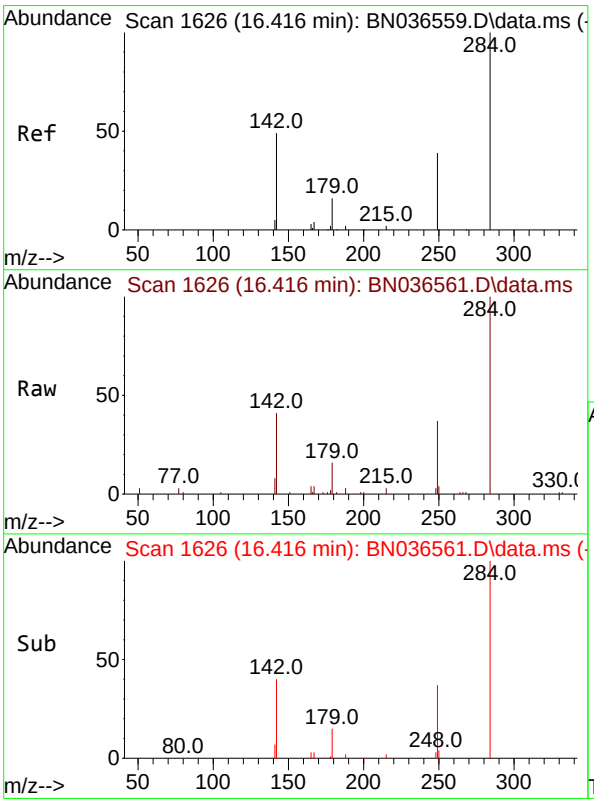
#21
4-Bromophenyl-phenylether
Concen: 1.539 ng
RT: 16.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:248 Resp: 7859

Ion	Ratio	Lower	Upper
248	100		
250	97.5	73.0	109.6
141	63.7	68.6	103.0#

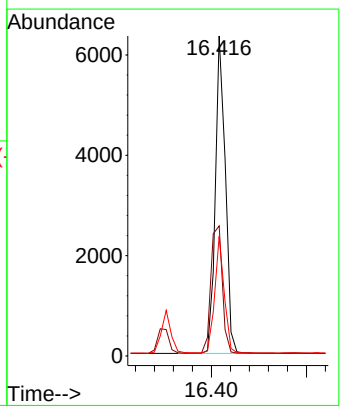


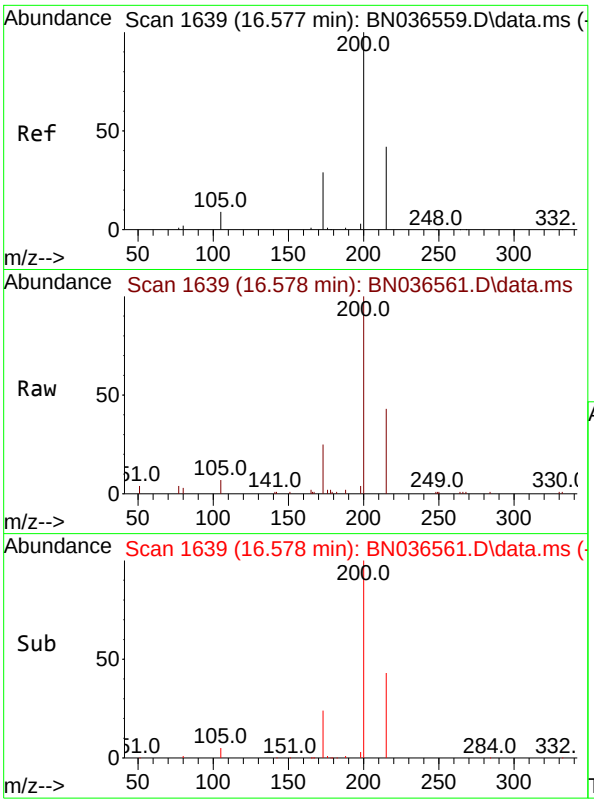


#22
Hexachlorobenzene
Concen: 1.495 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion:284 Resp: 9216

Ion	Ratio	Lower	Upper
284	100		
142	46.6	37.0	55.4
249	35.1	28.1	42.1



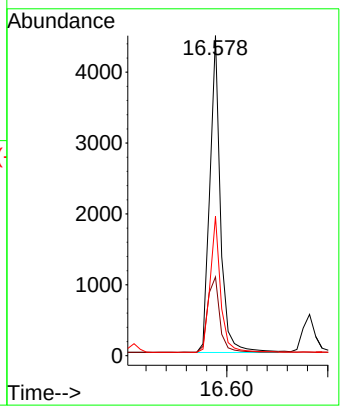


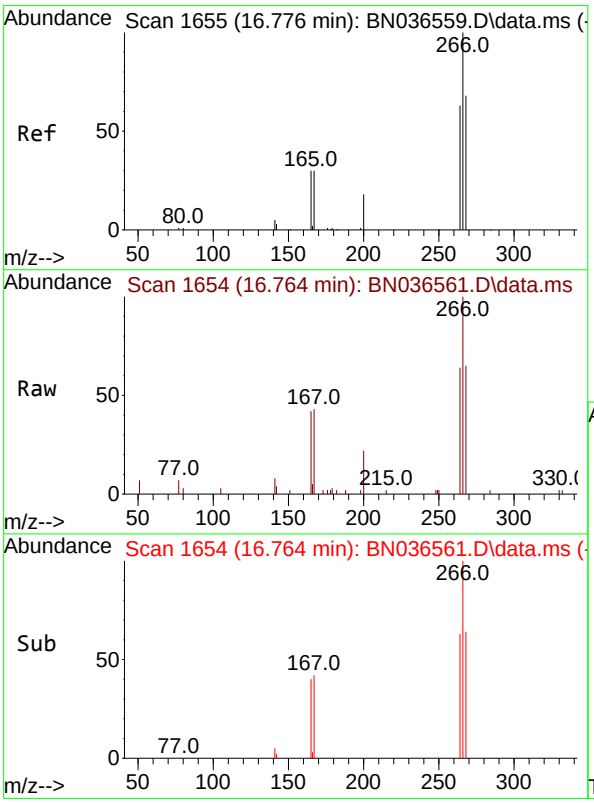
#23
Atrazine
Concen: 1.595 ng
RT: 16.578 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:200 Resp: 6530

Ion	Ratio	Lower	Upper
200	100		
173	24.6	27.3	40.9#
215	43.5	36.8	55.2

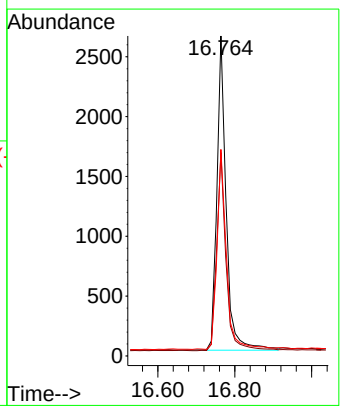


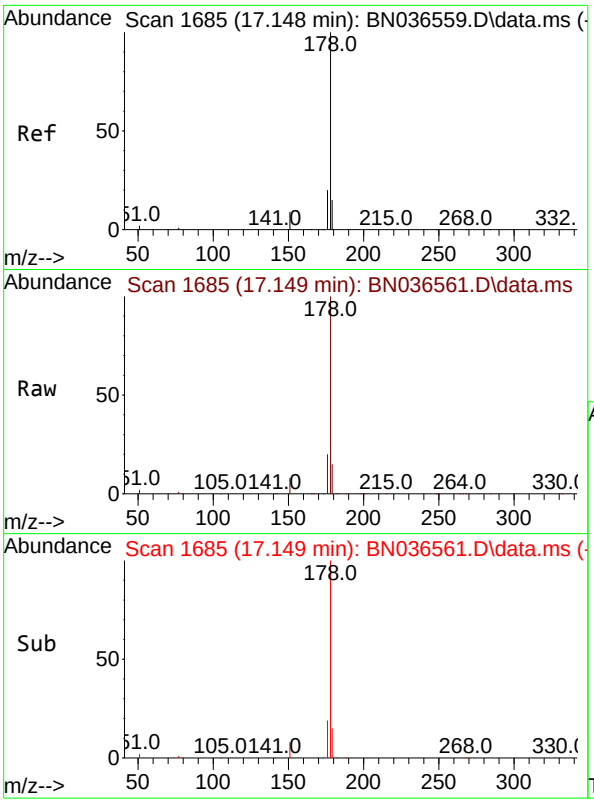


#24
Pentachlorophenol
Concen: 1.563 ng
RT: 16.764 min Scan# 1654
Delta R.T. -0.012 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion:266 Resp: 4395

Ion	Ratio	Lower	Upper
266	100		
264	63.5	49.6	74.4
268	64.4	50.9	76.3



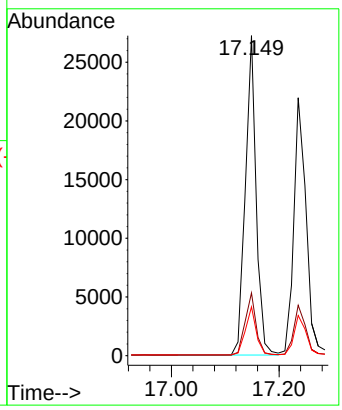


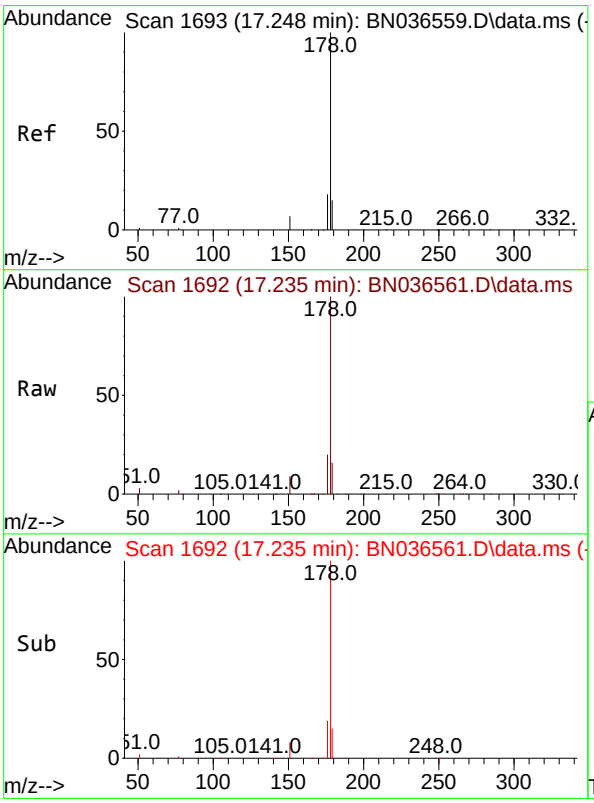
#25
Phenanthrene
Concen: 1.554 ng
RT: 17.149 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:178 Resp: 37989

Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.9	23.9
179	15.1	12.2	18.4

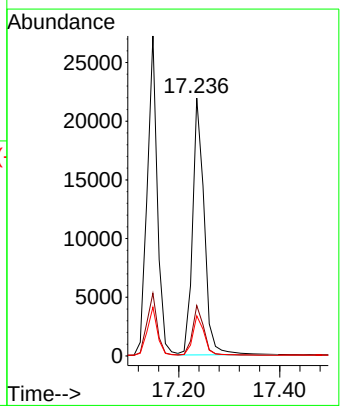


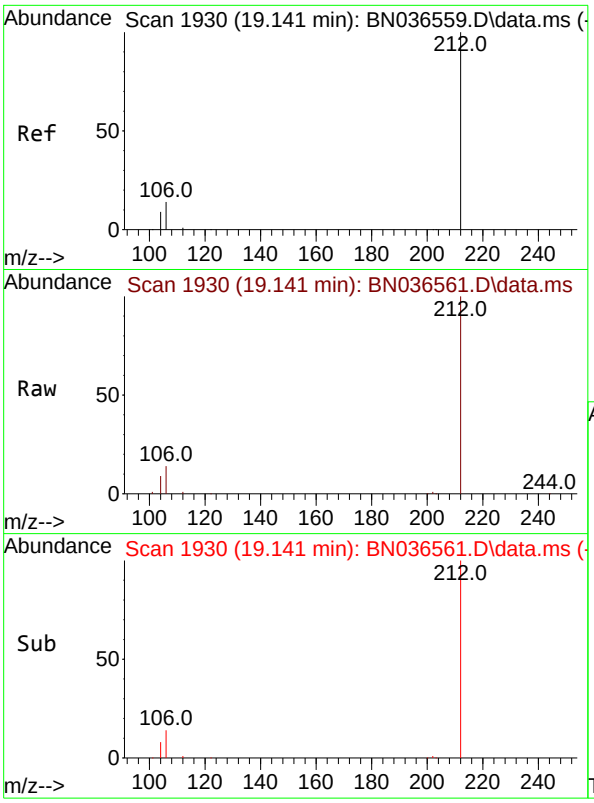


#26
Anthracene
Concen: 1.589 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.012 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion:178 Resp: 35054

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.4	23.2
179	15.3	12.6	18.8



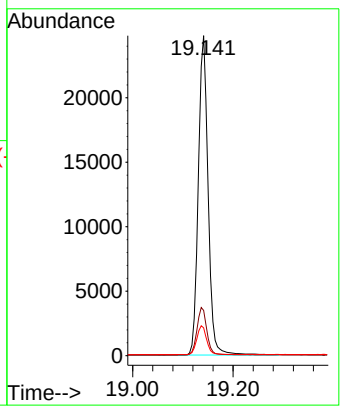


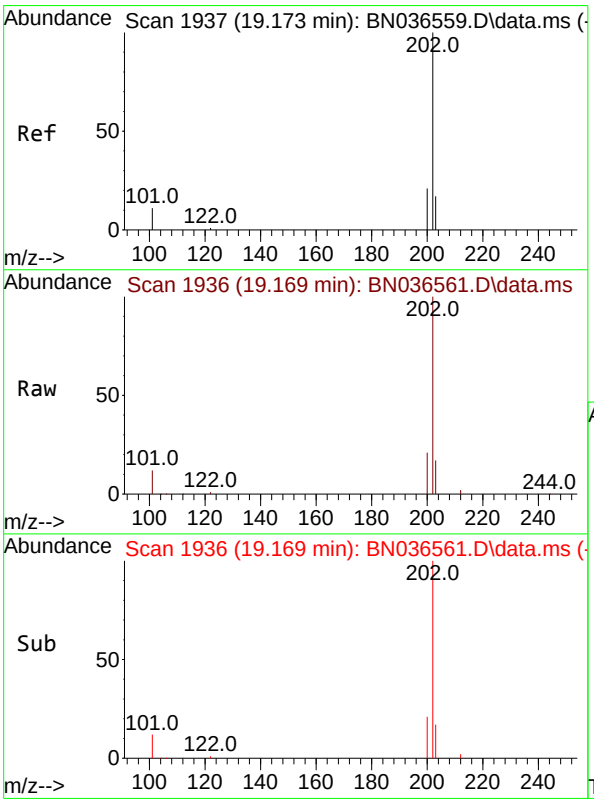
#27
Fluoranthene-d10
Concen: 1.600 ng
RT: 19.141 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:212 Resp: 33414

Ion	Ratio	Lower	Upper
212	100		
106	15.0	11.8	17.6
104	9.1	7.3	10.9

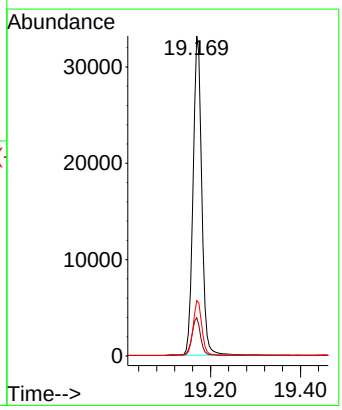


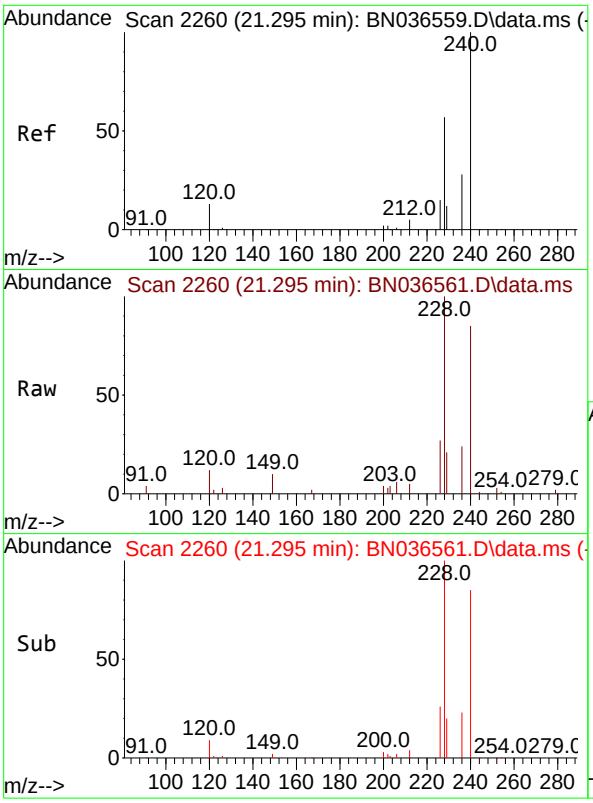


#28
Fluoranthene
Concen: 1.619 ng
RT: 19.169 min Scan# 1936
Delta R.T. -0.004 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion:202 Resp: 44451

Ion	Ratio	Lower	Upper
202	100		
101	12.0	9.4	14.0
203	17.2	13.5	20.3



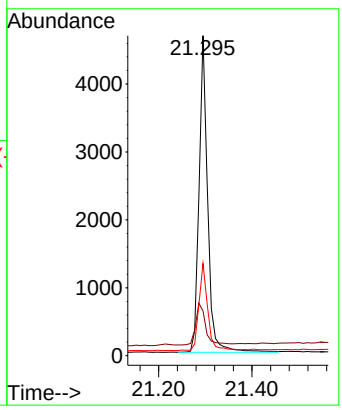


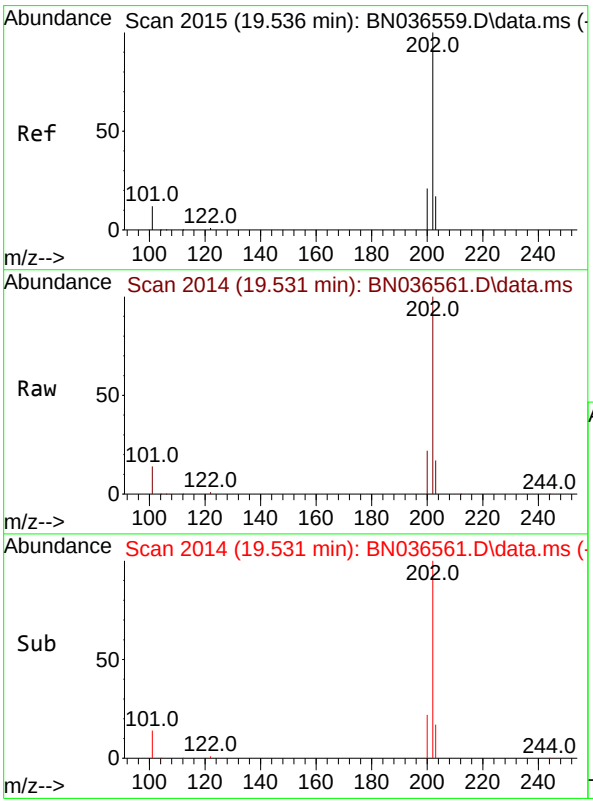
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:240 Resp: 5977

Ion	Ratio	Lower	Upper
240	100		
120	14.0	14.6	22.0#
236	28.9	24.1	36.1

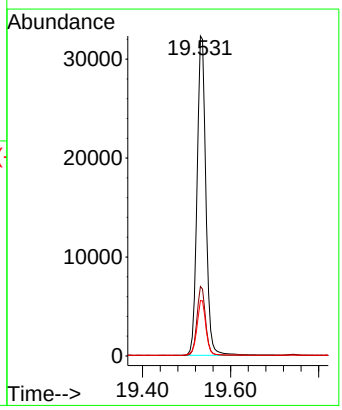


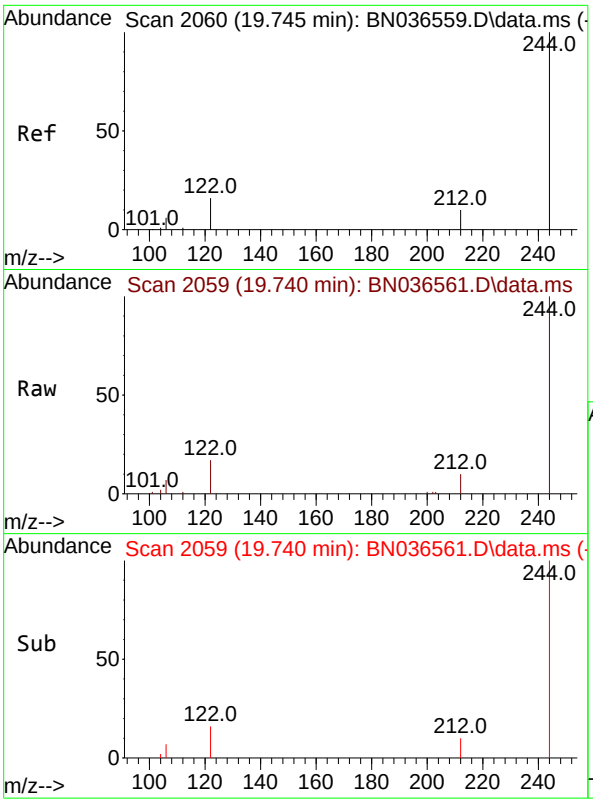


#30
Pyrene
Concen: 1.530 ng
RT: 19.531 min Scan# 2014
Delta R.T. -0.004 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion:202 Resp: 44705

Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.1	25.7
203	17.5	14.1	21.1



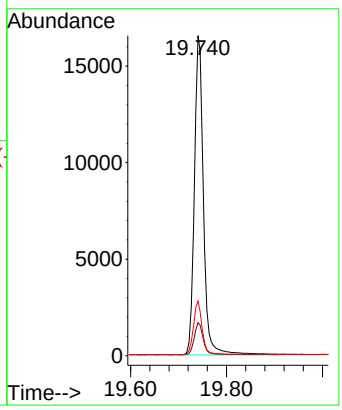


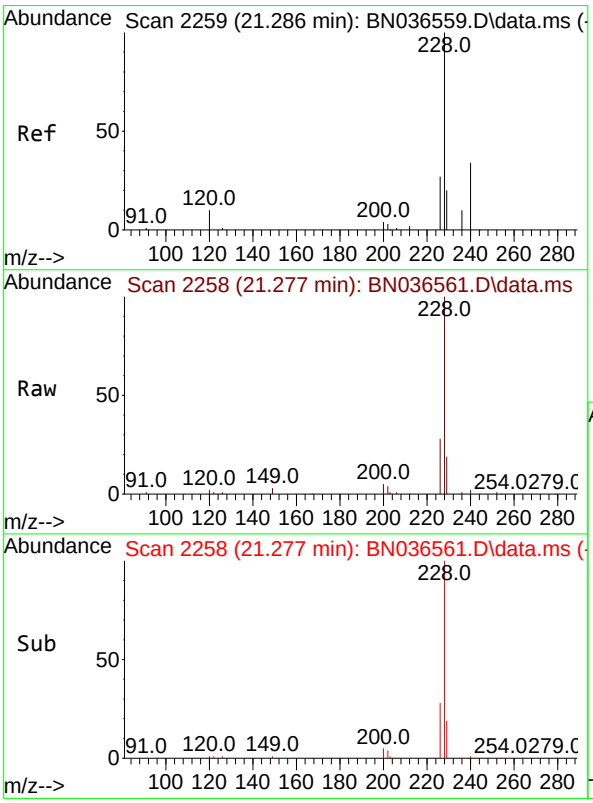
#31
Terphenyl-d14
Concen: 1.527 ng
RT: 19.740 min Scan# 2
Delta R.T. -0.004 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:244 Resp: 21872

Ion	Ratio	Lower	Upper
244	100		
212	10.3	9.6	14.4
122	17.0	13.9	20.9

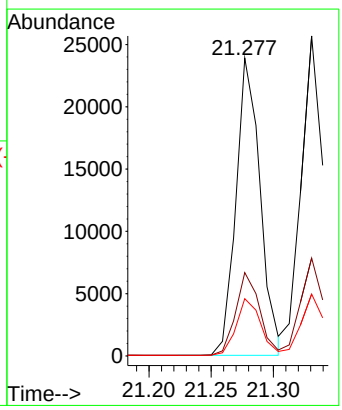


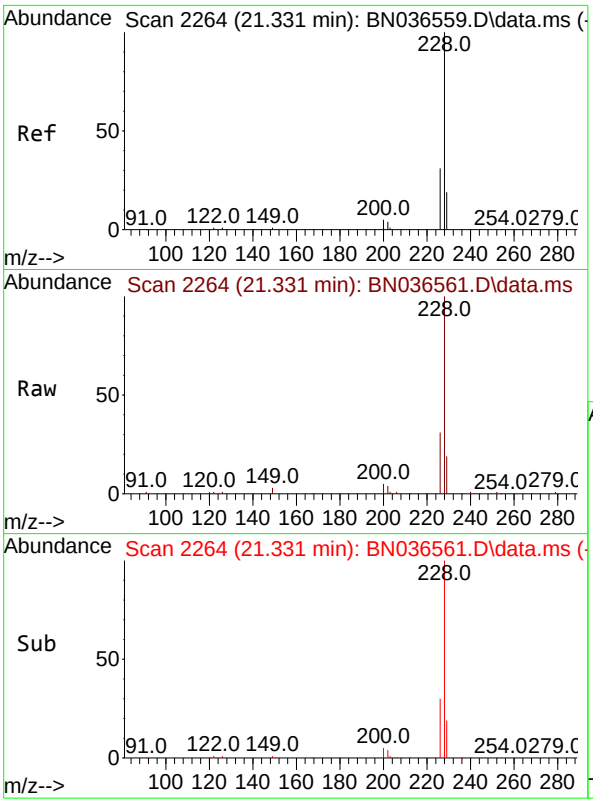


#32
Benzo(a)anthracene
Concen: 1.550 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.009 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion:228 Resp: 32205

Ion	Ratio	Lower	Upper
228	100		
226	28.0	22.5	33.7
229	19.2	16.6	25.0



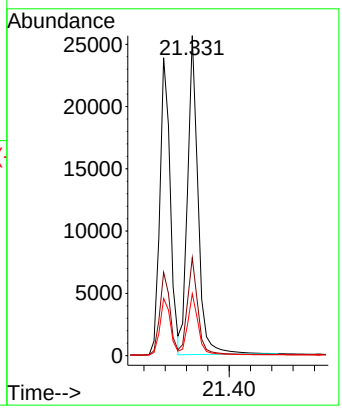


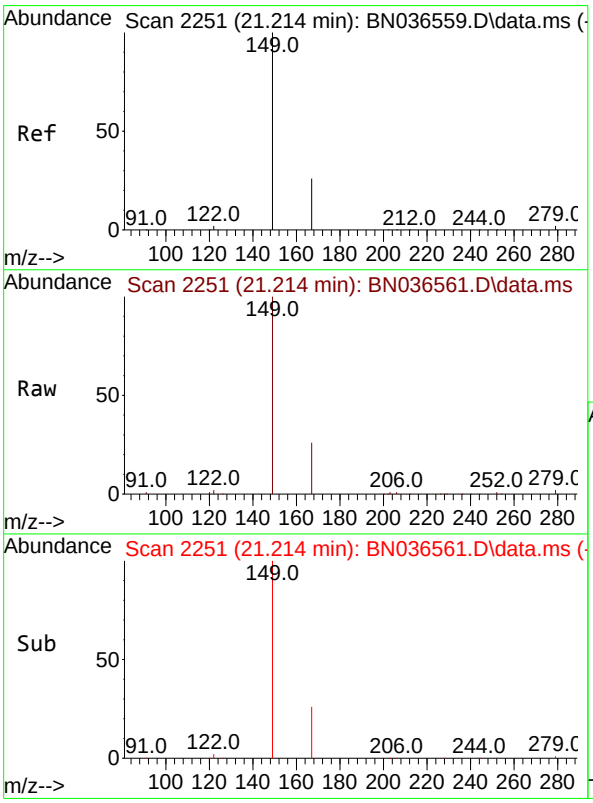
#33
Chrysene
Concen: 1.539 ng
RT: 21.331 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:228 Resp: 34953

Ion	Ratio	Lower	Upper
228	100		
226	30.6	25.3	37.9
229	19.3	15.8	23.8

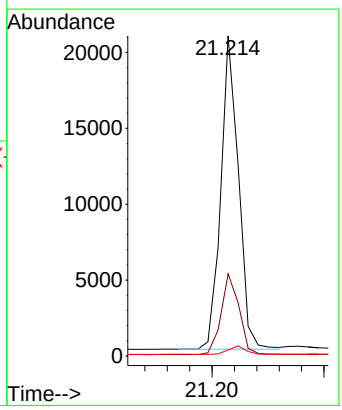


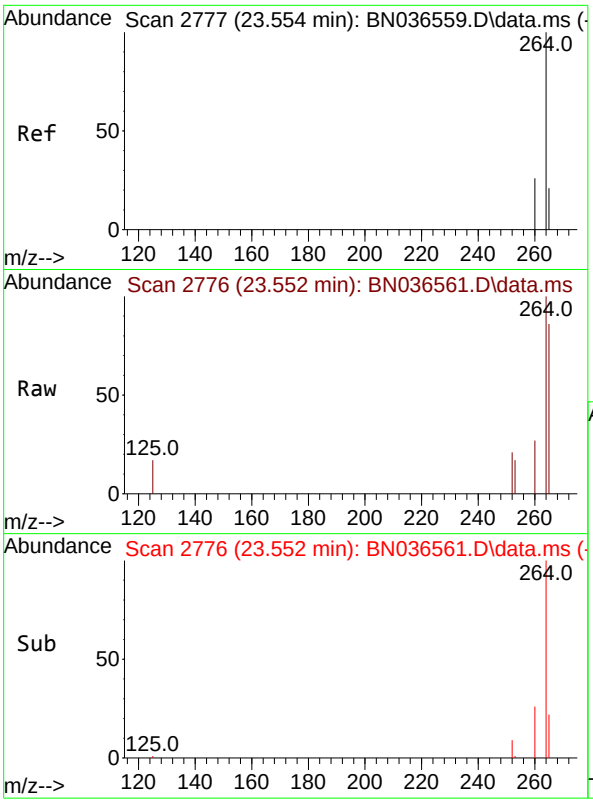


#34
Bis(2-ethylhexyl)phthalate
Concen: 1.529 ng
RT: 21.214 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion:149 Resp: 22621

Ion	Ratio	Lower	Upper
149	100		
167	26.3	20.7	31.1
279	2.7	3.6	5.4#



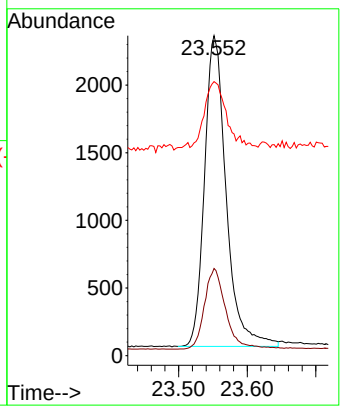


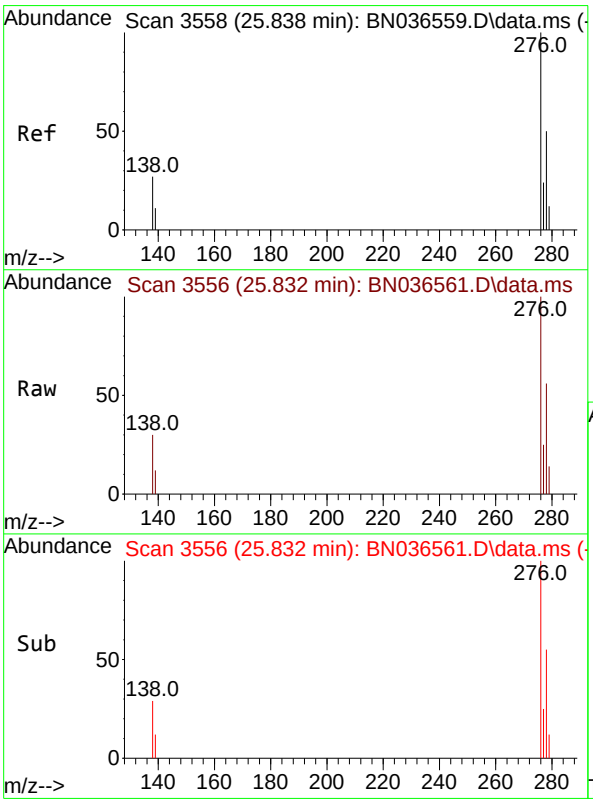
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.552 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:264 Resp: 5048

Ion	Ratio	Lower	Upper
264	100		
260	27.2	22.6	33.8
265	85.7	88.1	132.1#

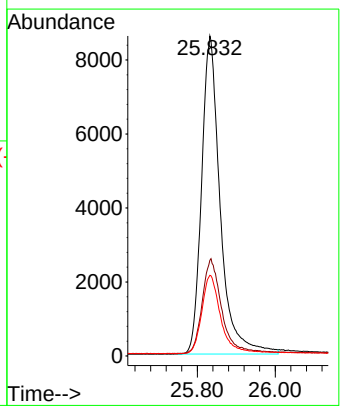


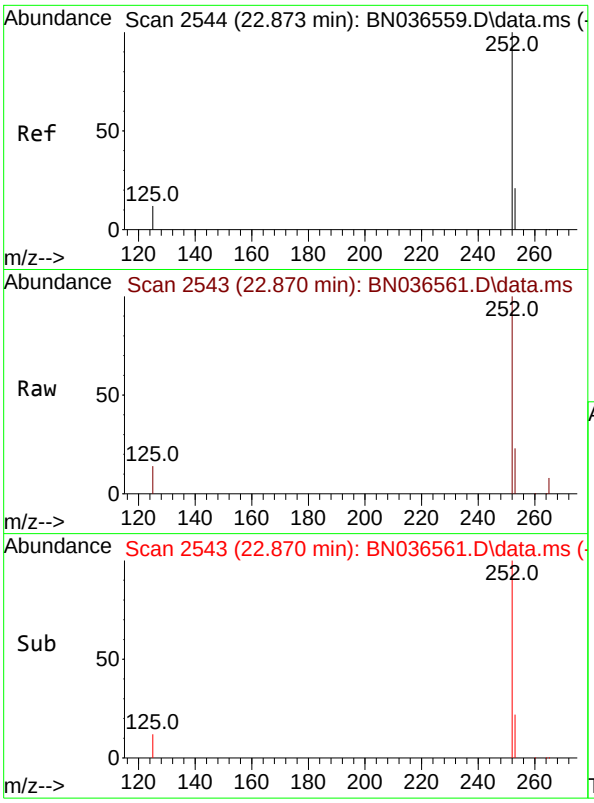


#36
Indeno(1,2,3-cd)pyrene
Concen: 1.570 ng
RT: 25.832 min Scan# 3556
Delta R.T. -0.006 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion:276 Resp: 28605

Ion	Ratio	Lower	Upper
276	100		
138	30.4	23.4	35.2
277	24.9	20.0	30.0



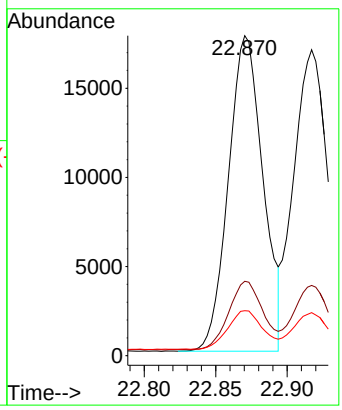


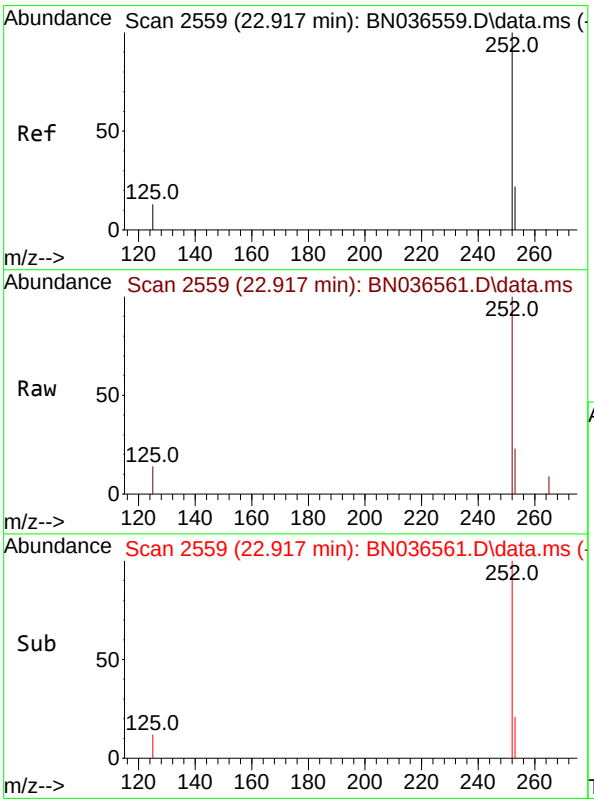
#37
Benzo(b)fluoranthene
Concen: 1.623 ng
RT: 22.870 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:252 Resp: 29819

Ion	Ratio	Lower	Upper
252	100		
253	23.3	23.9	35.9#
125	14.0	17.4	26.2#

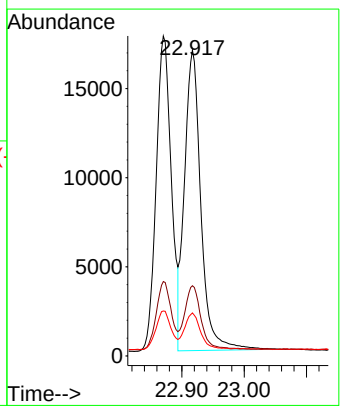


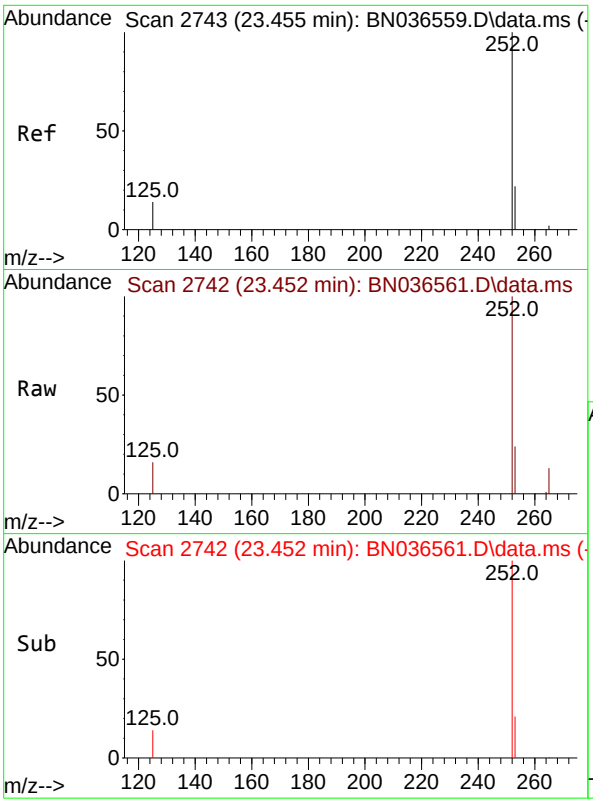


#38
Benzo(k)fluoranthene
Concen: 1.593 ng
RT: 22.917 min Scan# 2559
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion:252 Resp: 30710

Ion	Ratio	Lower	Upper
252	100		
253	23.0	24.6	36.8#
125	14.1	17.8	26.8#



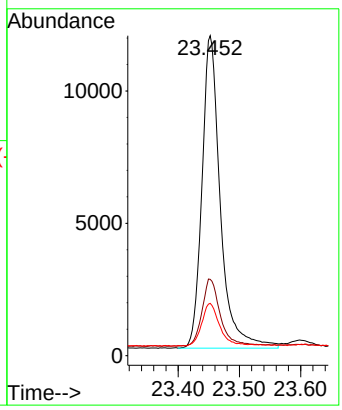


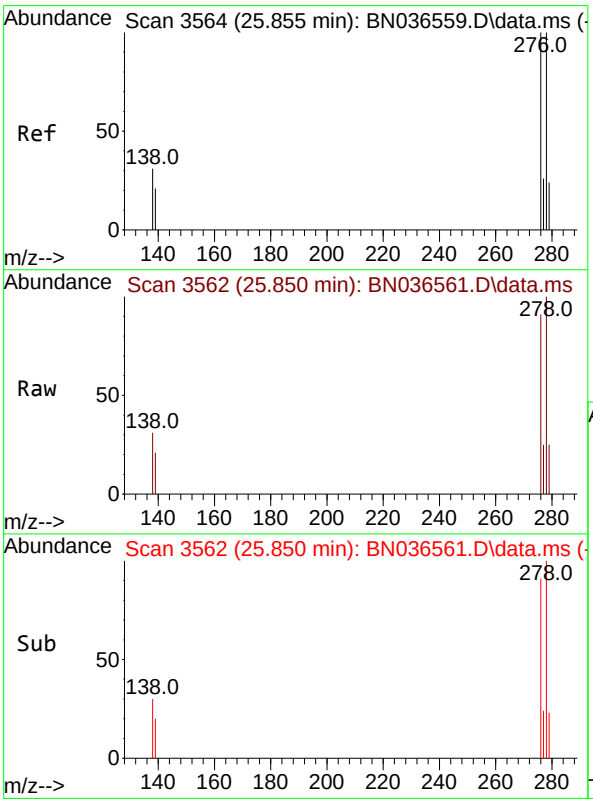
#39
Benzo(a)pyrene
Concen: 1.596 ng
RT: 23.452 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:252 Resp: 24696

Ion	Ratio	Lower	Upper
252	100		
253	23.9	27.8	41.8#
125	16.3	22.7	34.1#

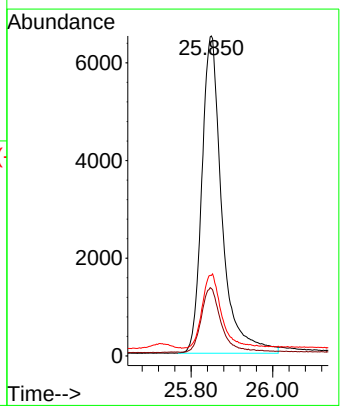


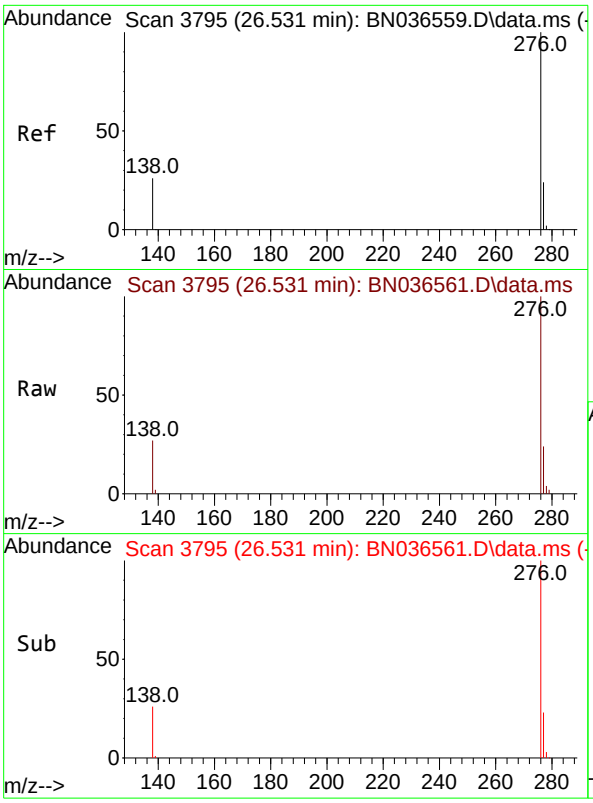


#40
Dibenzo(a,h)anthracene
Concen: 1.569 ng
RT: 25.850 min Scan# 3562
Delta R.T. -0.006 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion:278 Resp: 22248

Ion	Ratio	Lower	Upper
278	100		
139	21.1	20.8	31.2
279	25.1	28.8	43.2#



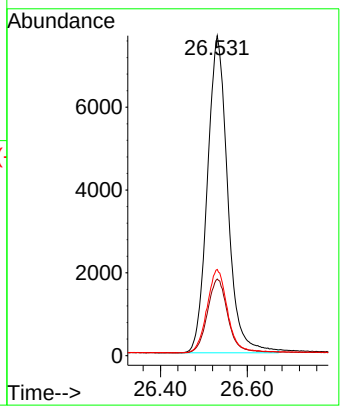


#41
Benzo(g,h,i)perylene
Concen: 1.535 ng
RT: 26.531 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:276 Resp: 24906

Ion	Ratio	Lower	Upper
276	100		
277	23.9	22.2	33.4
138	26.9	24.1	36.1



Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036562.D
Acq On : 10 Mar 2025 14:43
Operator : RC/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Quant Time: Mar 10 16:02:50 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:54:23 2025
Response via : Initial Calibration

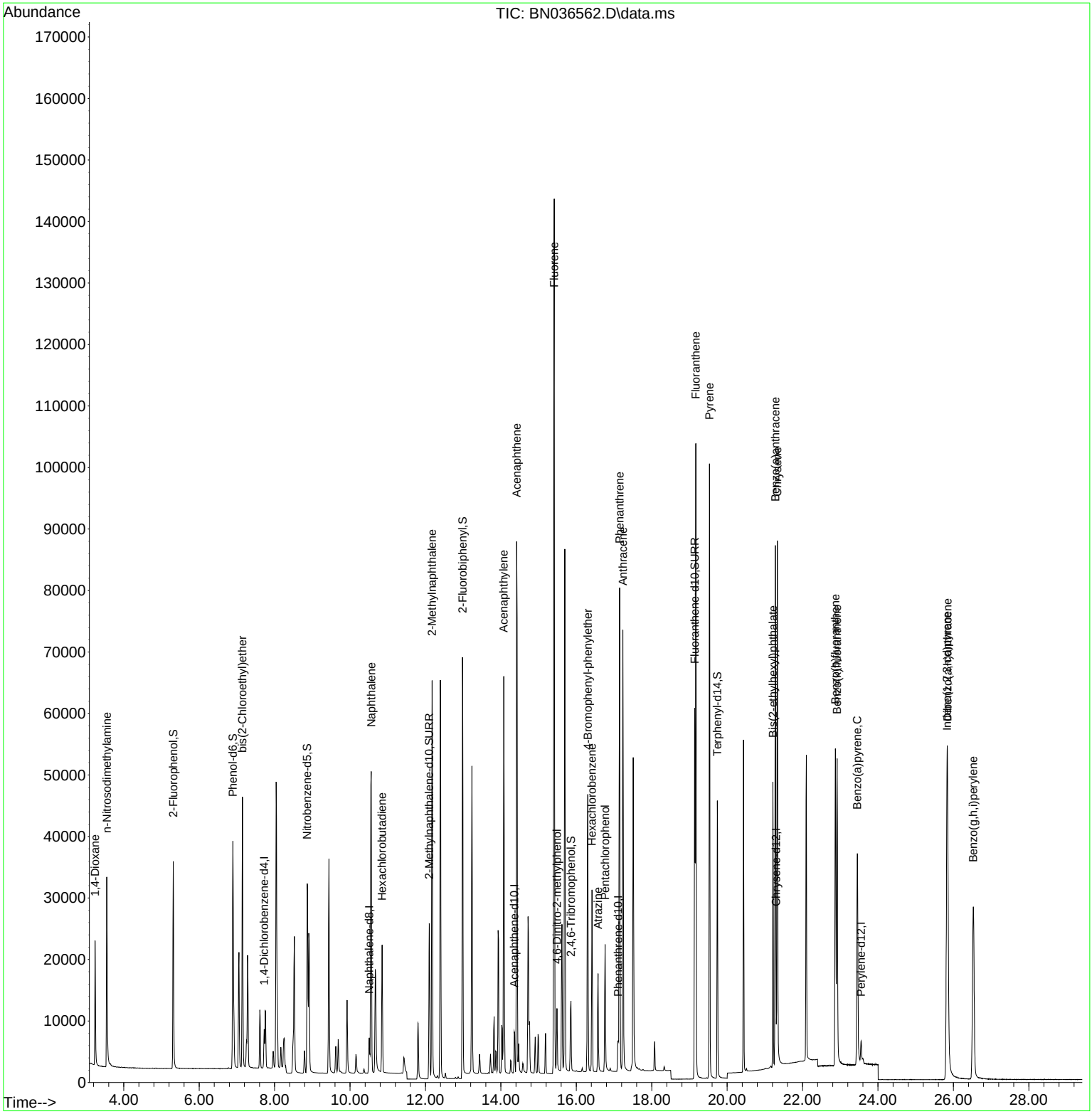
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.724	152	2890	0.400	ng		0.00
7) Naphthalene-d8	10.509	136	6824	0.400	ng		0.00
13) Acenaphthene-d10	14.355	164	3957	0.400	ng		-0.01
19) Phenanthrene-d10	17.111	188	7488	0.400	ng		0.00
29) Chrysene-d12	21.295	240	5439	0.400	ng		0.00
35) Perylene-d12	23.551	264	5002	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.312	112	23032	3.420	ng		0.00
5) Phenol-d6	6.894	99	28996	3.485	ng		0.00
8) Nitrobenzene-d5	8.864	82	24586	3.312	ng		-0.01
11) 2-Methylnaphthalene-d10	12.101	152	34578	3.407	ng		-0.01
14) 2,4,6-Tribromophenol	15.858	330	6252	3.482	ng		0.00
15) 2-Fluorobiphenyl	12.983	172	81236	3.529	ng		0.00
27) Fluoranthene-d10	19.141	212	65134	3.394	ng		0.00
31) Terphenyl-d14	19.740	244	42959	3.297	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.239	88	10288	3.209	ng		97
3) n-Nitrosodimethylamine	3.550	42	20412	3.147	ng	#	96
6) bis(2-Chloroethyl)ether	7.146	93	27978	3.253	ng		99
9) Naphthalene	10.562	128	66694	3.323	ng		96
10) Hexachlorobutadiene	10.850	225	15618	3.305	ng	#	99
12) 2-Methylnaphthalene	12.177	142	43768	3.427	ng		97
16) Acenaphthylene	14.077	152	65654	3.516	ng		99
17) Acenaphthene	14.420	154	42378	3.467	ng		97
18) Fluorene	15.414	166	56295	3.404	ng		100
20) 4,6-Dinitro-2-methylph...	15.489	198	6567	3.315	ng	#	58
21) 4-Bromophenyl-phenylether	16.304	248	16652	3.549	ng	#	82
22) Hexachlorobenzene	16.416	284	19287	3.406	ng		100
23) Atrazine	16.577	200	12969	3.448	ng	#	90
24) Pentachlorophenol	16.764	266	9625	3.726	ng		99
25) Phenanthrene	17.148	178	77903	3.468	ng		99
26) Anthracene	17.235	178	72775	3.590	ng		99
28) Fluoranthene	19.169	202	86688	3.436	ng		99
30) Pyrene	19.531	202	86694	3.260	ng		100
32) Benzo(a)anthracene	21.277	228	66496	3.516	ng		99
33) Chrysene	21.331	228	70334	3.403	ng		99
34) Bis(2-ethylhexyl)phtha...	21.214	149	39682	2.947	ng	#	98
36) Indeno(1,2,3-cd)pyrene	25.829	276	67767	3.754	ng		98
37) Benzo(b)fluoranthene	22.870	252	63823	3.506	ng	#	84
38) Benzo(k)fluoranthene	22.914	252	65410	3.425	ng	#	83
39) Benzo(a)pyrene	23.452	252	54009	3.523	ng	#	77
40) Dibenzo(a,h)anthracene	25.843	278	54058	3.846	ng	#	84
41) Benzo(g,h,i)perylene	26.528	276	57986	3.606	ng		94

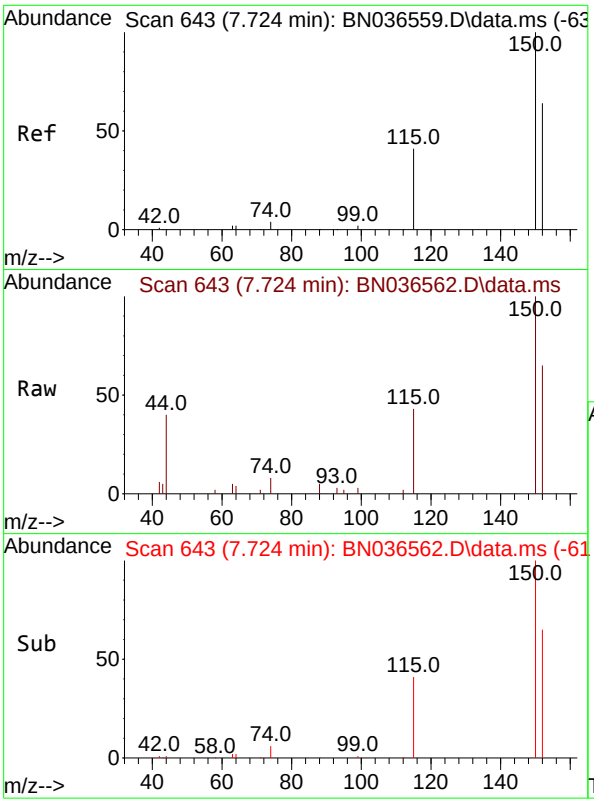
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036562.D
Acq On : 10 Mar 2025 14:43
Operator : RC/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Quant Time: Mar 10 16:02:50 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:54:23 2025
Response via : Initial Calibration



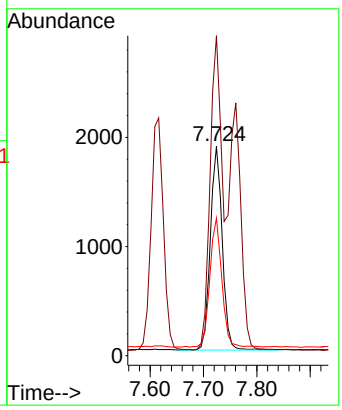


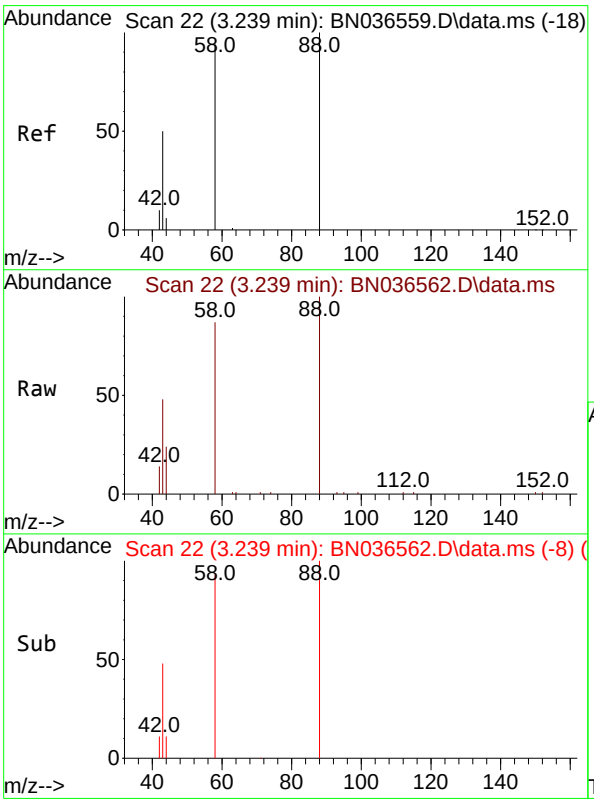
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:152 Resp: 2890

Ion	Ratio	Lower	Upper
152	100		
150	152.9	123.7	185.5
115	65.7	54.3	81.5

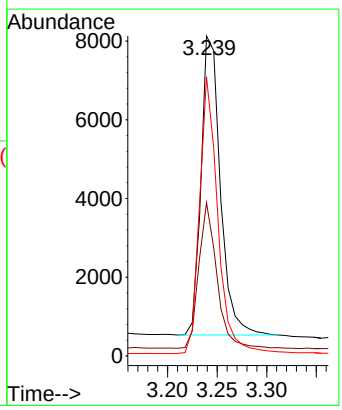


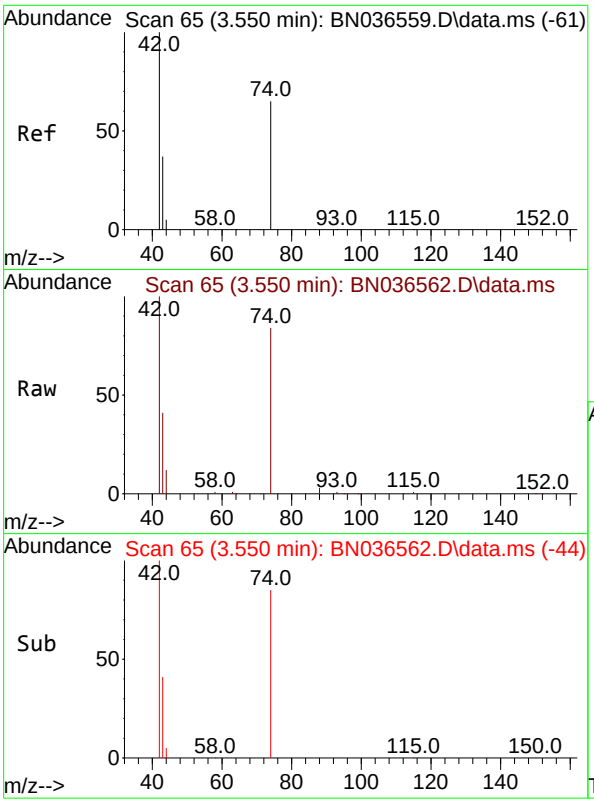


#2
1,4-Dioxane
Concen: 3.209 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion: 88 Resp: 10288

Ion	Ratio	Lower	Upper
88	100		
43	45.2	37.8	56.8
58	87.2	67.4	101.2



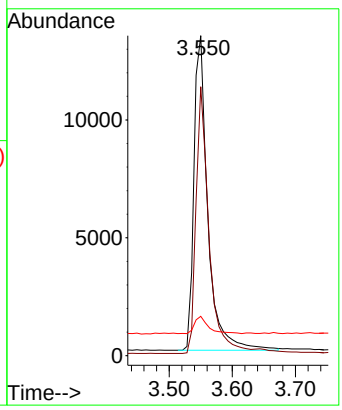


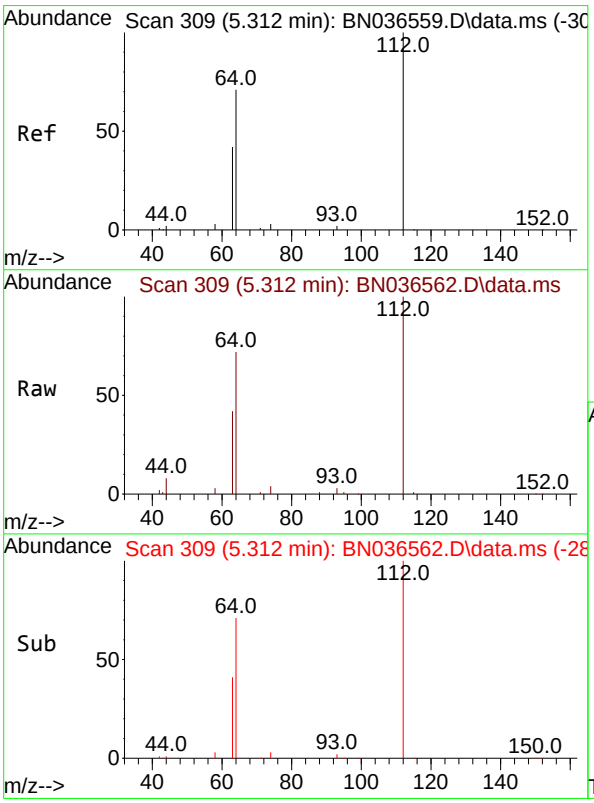
#3
n-Nitrosodimethylamine
Concen: 3.147 ng
RT: 3.550 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion: 42 Resp: 20412

Ion	Ratio	Lower	Upper
42	100		
74	78.8	60.6	90.8
44	5.5	6.3	9.5#

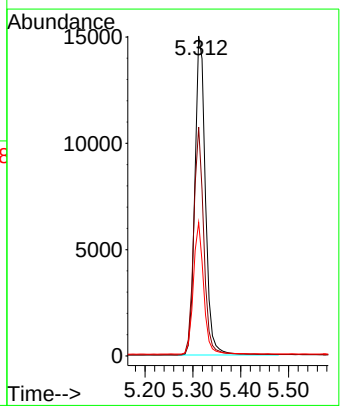


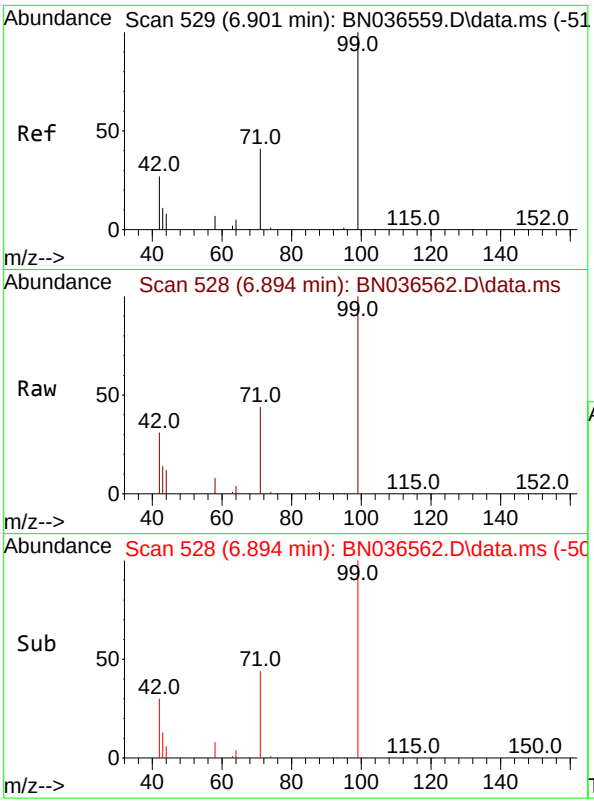


#4
2-Fluorophenol
Concen: 3.420 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:112 Resp: 23032

Ion	Ratio	Lower	Upper
112	100		
64	68.4	53.1	79.7
63	39.8	31.8	47.8



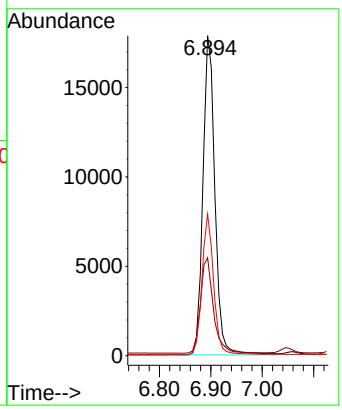


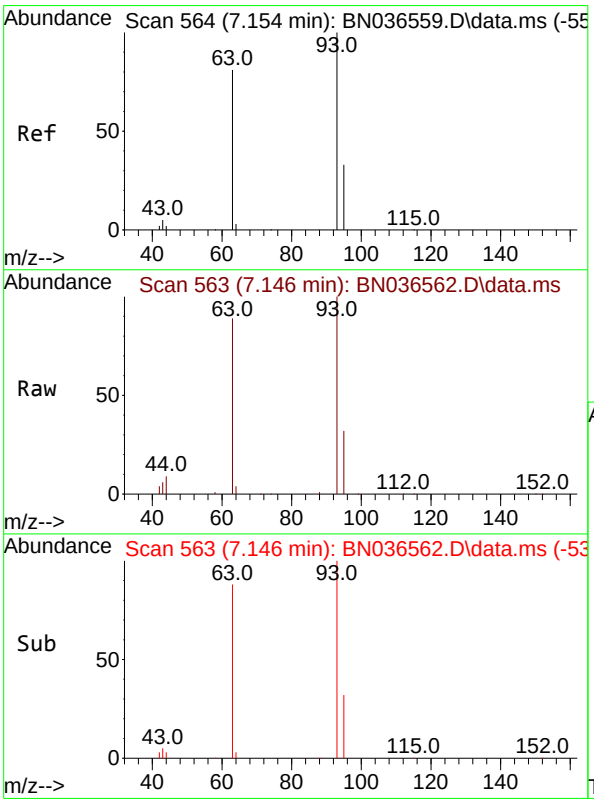
#5
Phenol-d6
Concen: 3.485 ng
RT: 6.894 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion: 99 Resp: 28996

Ion	Ratio	Lower	Upper
99	100		
42	32.3	26.5	39.7
71	43.2	34.1	51.1

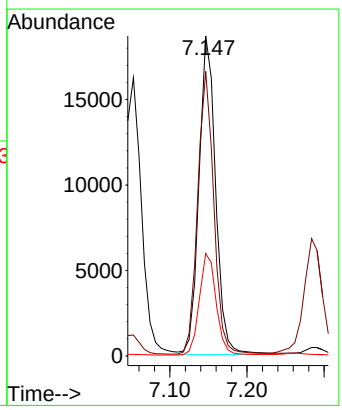


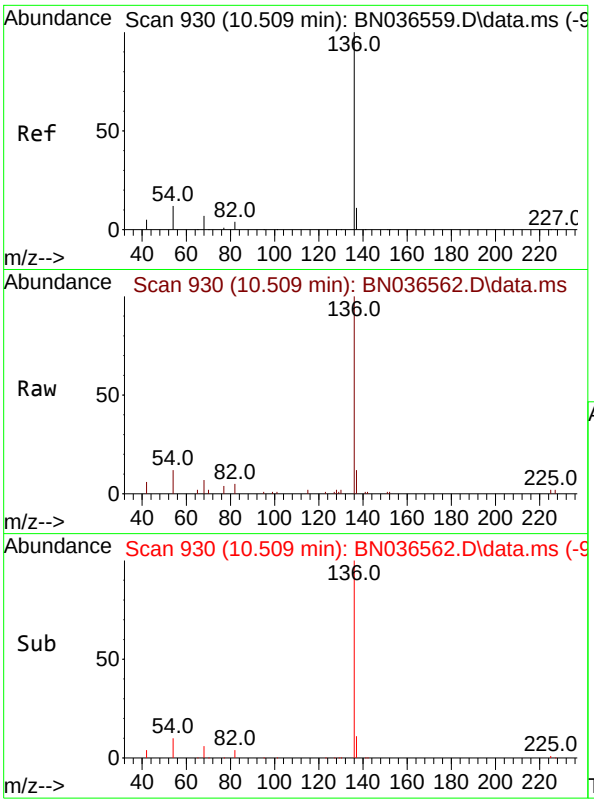


#6
bis(2-Chloroethyl)ether
Concen: 3.253 ng
RT: 7.146 min Scan# 563
Delta R.T. -0.007 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion: 93 Resp: 27978

Ion	Ratio	Lower	Upper
93	100		
63	85.7	67.7	101.5
95	32.0	25.6	38.4



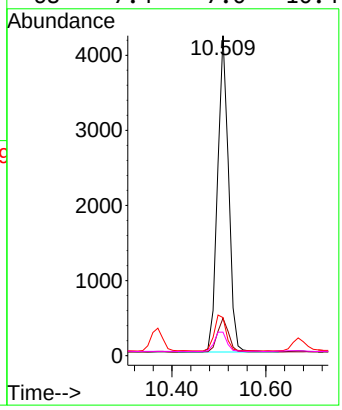


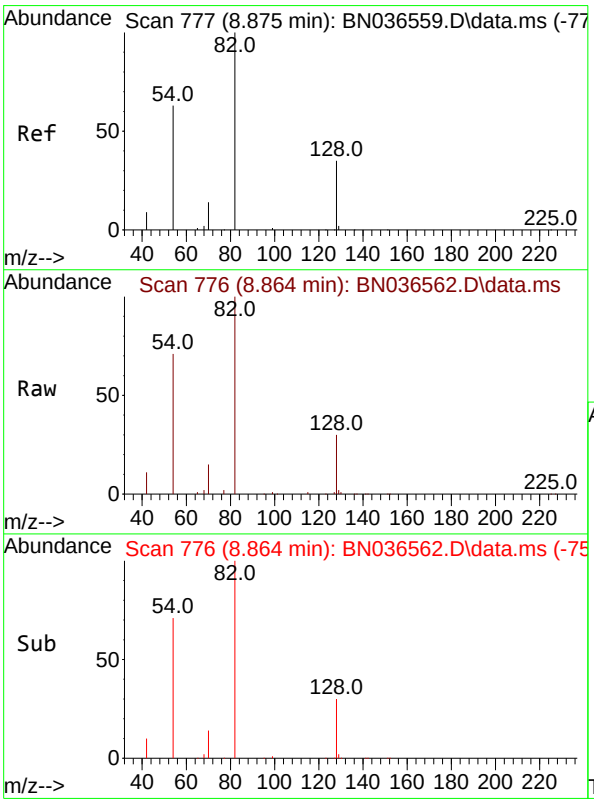
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:136 Resp: 6824

Ion	Ratio	Lower	Upper
136	100		
137	11.7	10.3	15.5
54	11.9	11.5	17.3
68	7.4	7.0	10.4

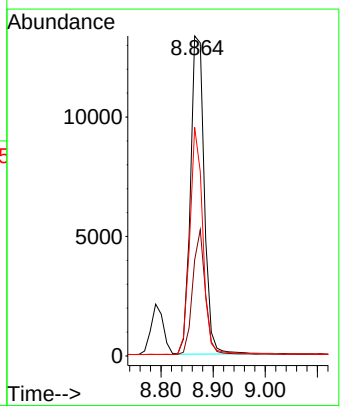


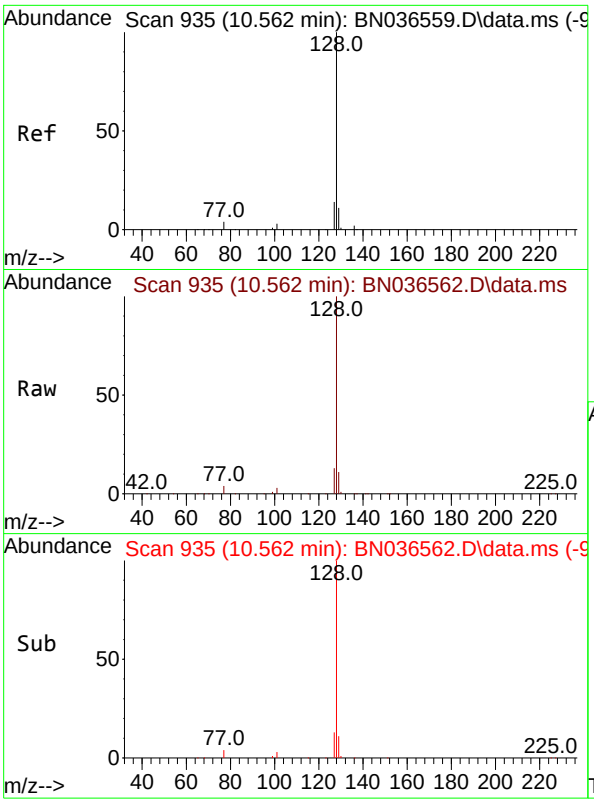


#8
Nitrobenzene-d5
Concen: 3.312 ng
RT: 8.864 min Scan# 776
Delta R.T. -0.011 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion: 82 Resp: 24586

Ion	Ratio	Lower	Upper
82	100		
128	30.0	30.6	45.8#
54	71.4	52.2	78.4



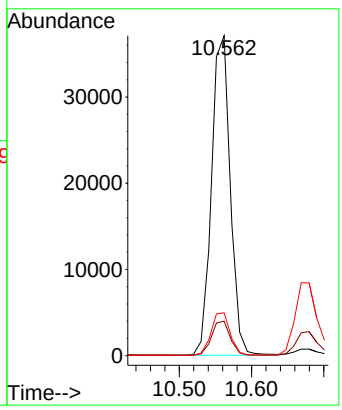


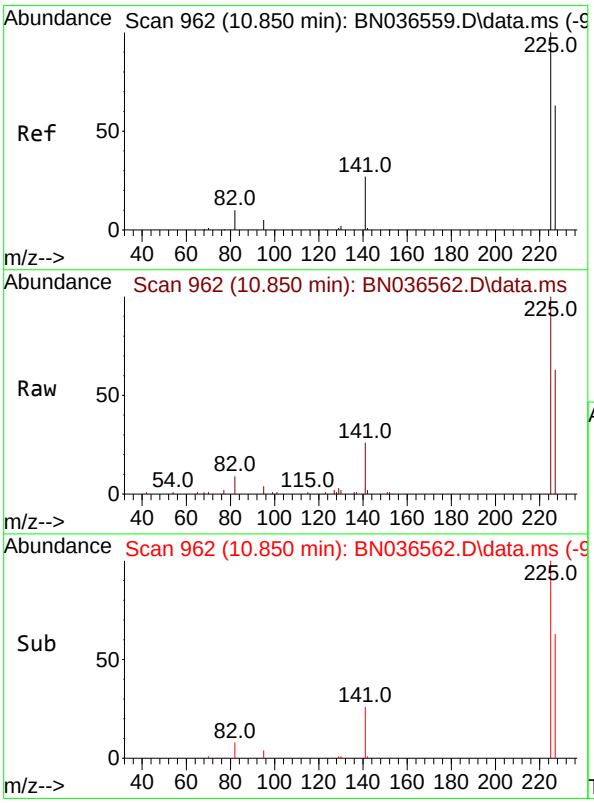
#9
Naphthalene
Concen: 3.323 ng
RT: 10.562 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:128 Resp: 66694

Ion	Ratio	Lower	Upper
128	100		
129	10.8	9.8	14.6
127	13.4	11.8	17.8

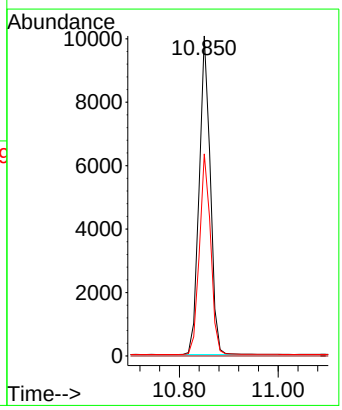


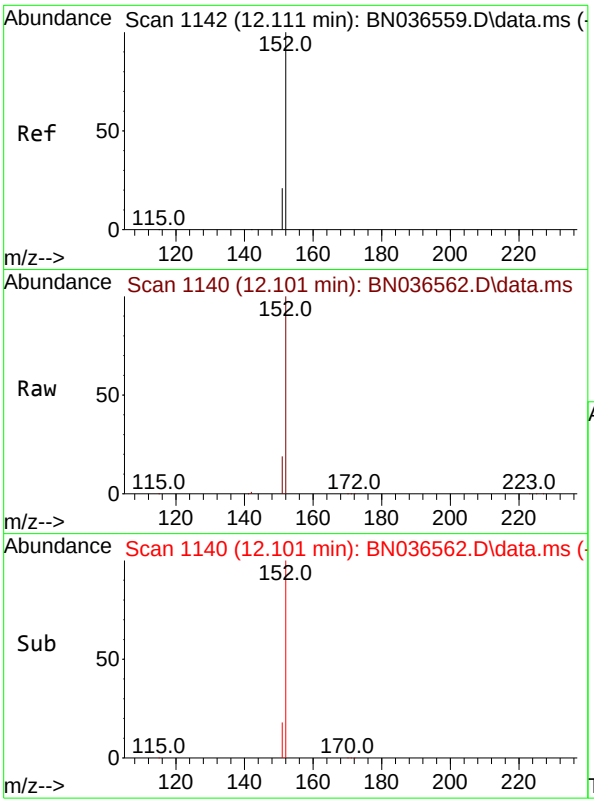


#10
Hexachlorobutadiene
Concen: 3.305 ng
RT: 10.850 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:225 Resp: 15618

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.6	51.8	77.8



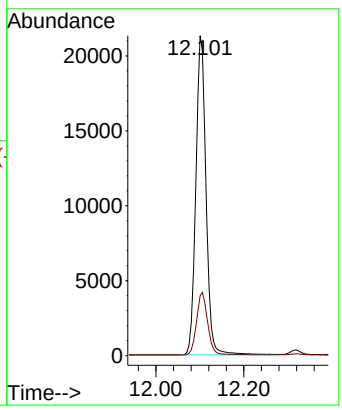


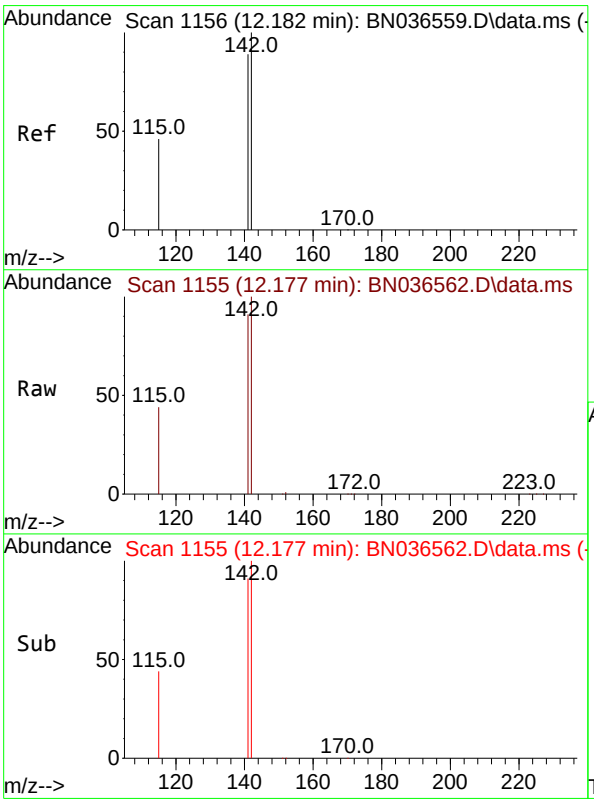
#11
2-Methylnaphthalene-d10
Concen: 3.407 ng
RT: 12.101 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:152 Resp: 34578

Ion	Ratio	Lower	Upper
152	100		
151	21.2	17.0	25.6

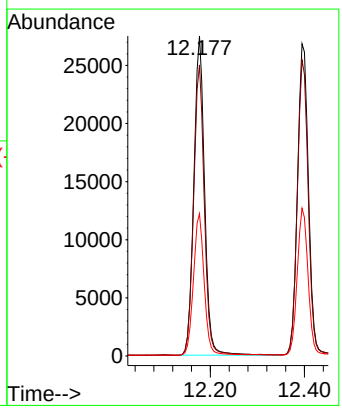


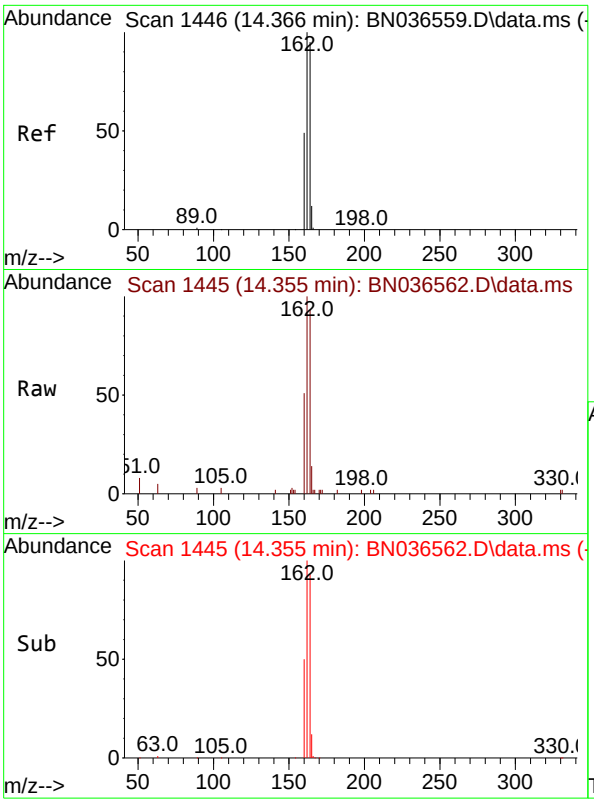


#12
2-Methylnaphthalene
Concen: 3.427 ng
RT: 12.177 min Scan# 1155
Delta R.T. -0.005 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:142 Resp: 43768

Ion	Ratio	Lower	Upper
142	100		
141	90.9	71.7	107.5
115	44.5	38.3	57.5



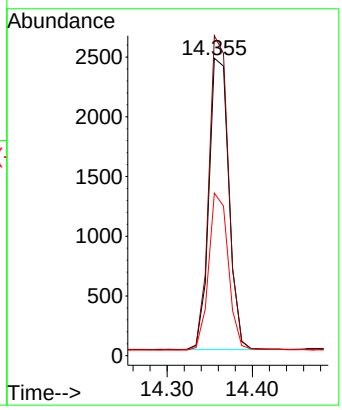


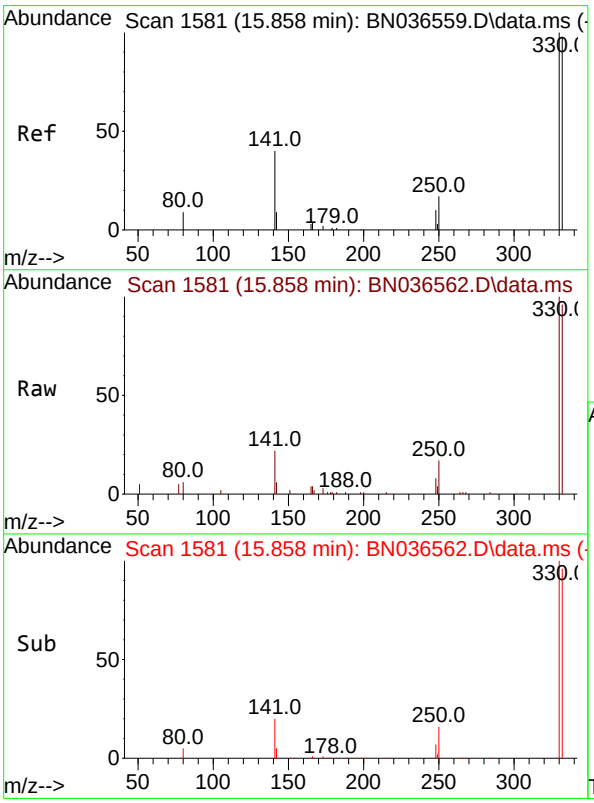
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.355 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:164 Resp: 3957

Ion	Ratio	Lower	Upper
164	100		
162	107.6	84.2	126.2
160	54.7	42.2	63.2

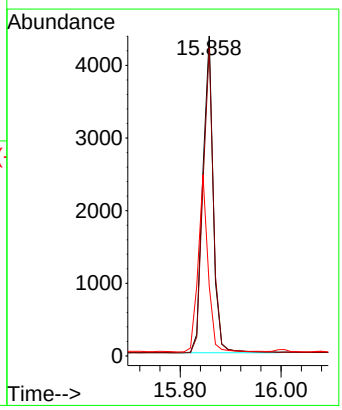


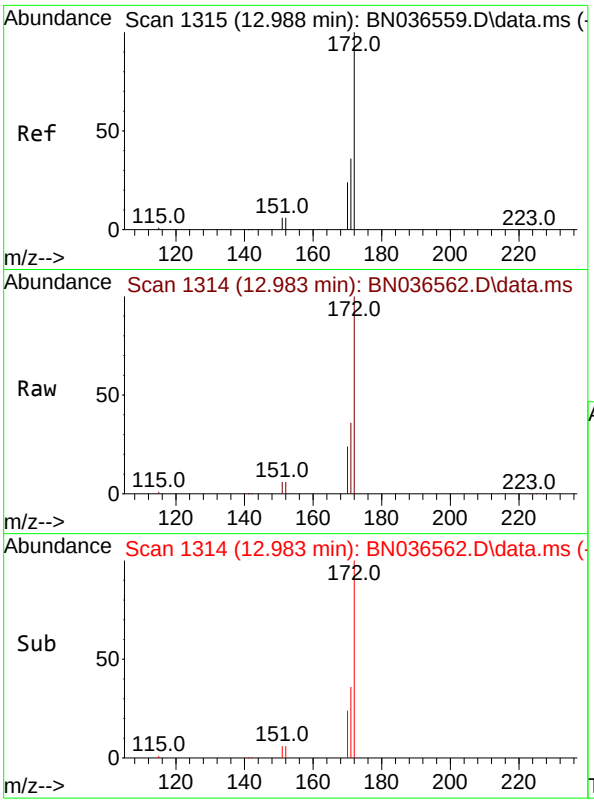


#14
2,4,6-Tribromophenol
Concen: 3.482 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:330 Resp: 6252

Ion	Ratio	Lower	Upper
330	100		
332	96.1	75.2	112.8
141	53.7	43.4	65.2



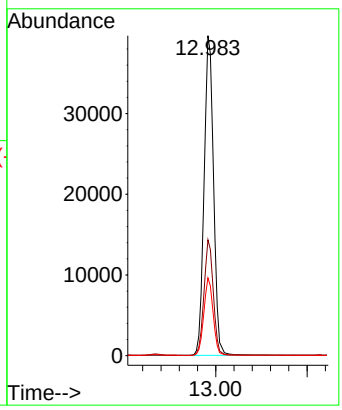


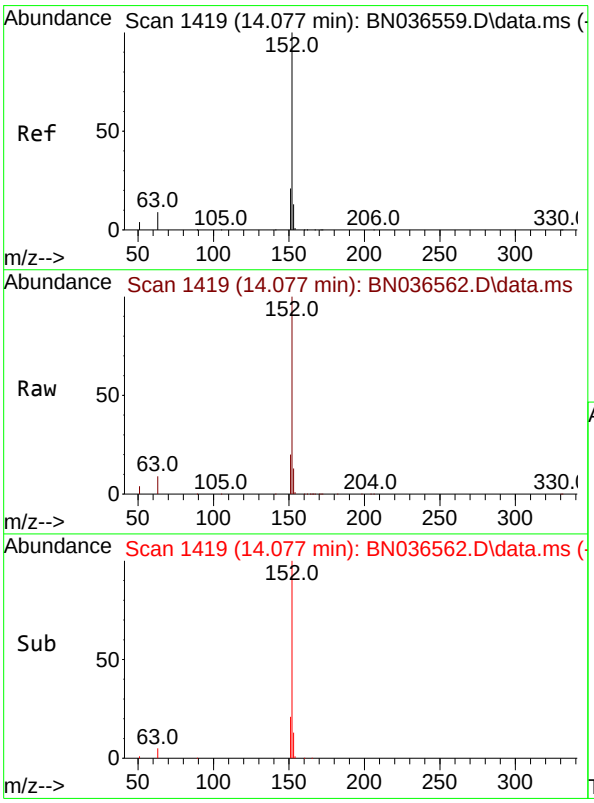
#15
2-Fluorobiphenyl
Concen: 3.529 ng
RT: 12.983 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:172 Resp: 81236

Ion	Ratio	Lower	Upper
172	100		
171	36.2	29.5	44.3
170	24.3	20.2	30.4

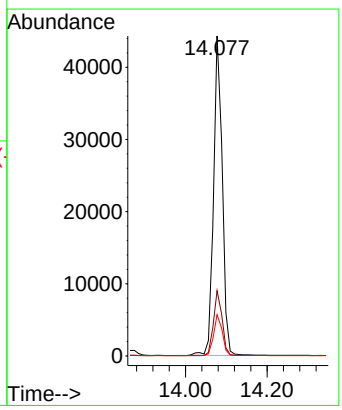


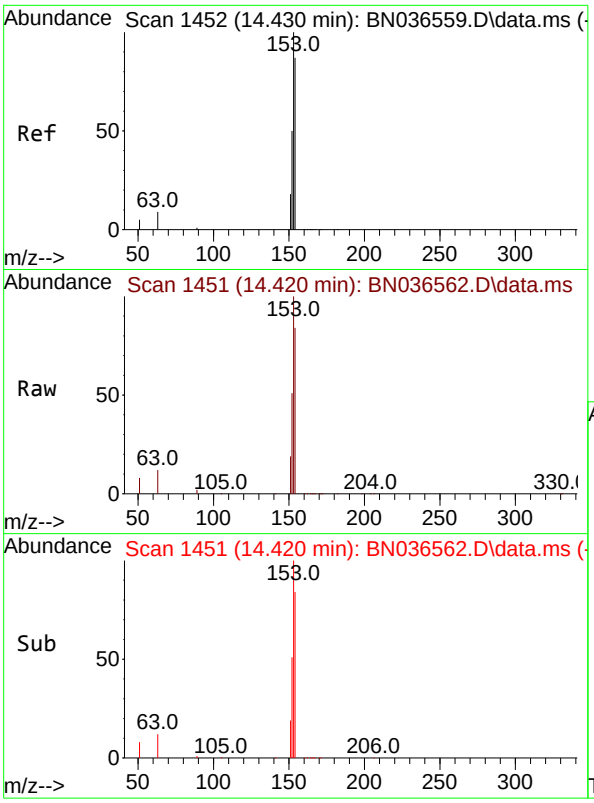


#16
Acenaphthylene
Concen: 3.516 ng
RT: 14.077 min Scan# 1419
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:152 Resp: 65654

Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.2	24.4
153	12.8	10.6	15.8



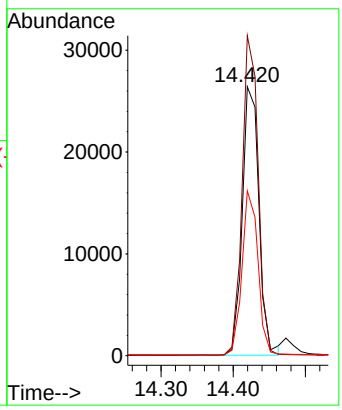


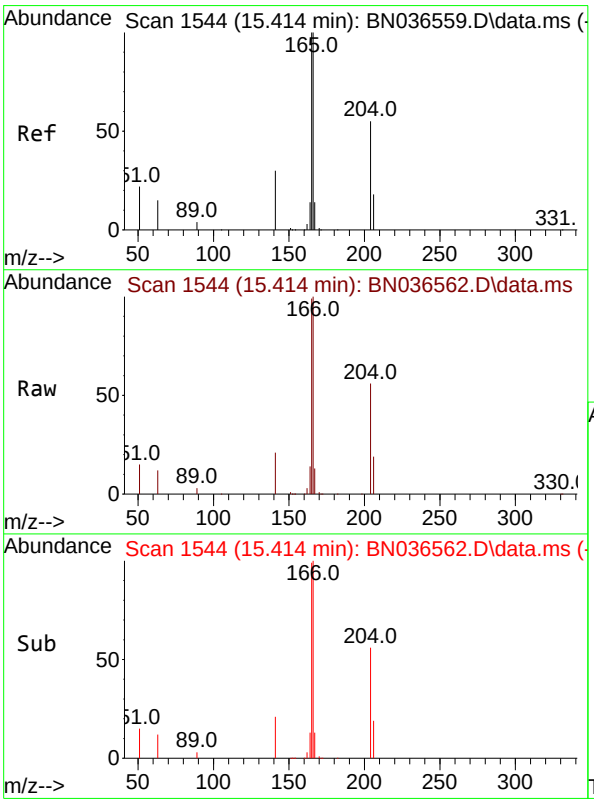
#17
Acenaphthene
Concen: 3.467 ng
RT: 14.420 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:154 Resp: 42378

Ion	Ratio	Lower	Upper
154	100		
153	114.6	94.1	141.1
152	58.9	49.8	74.6

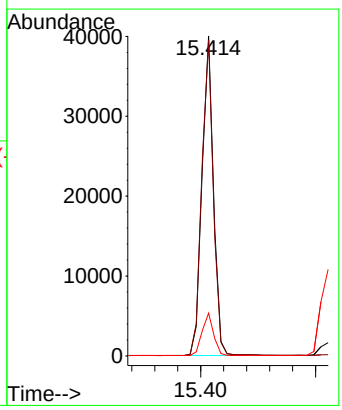


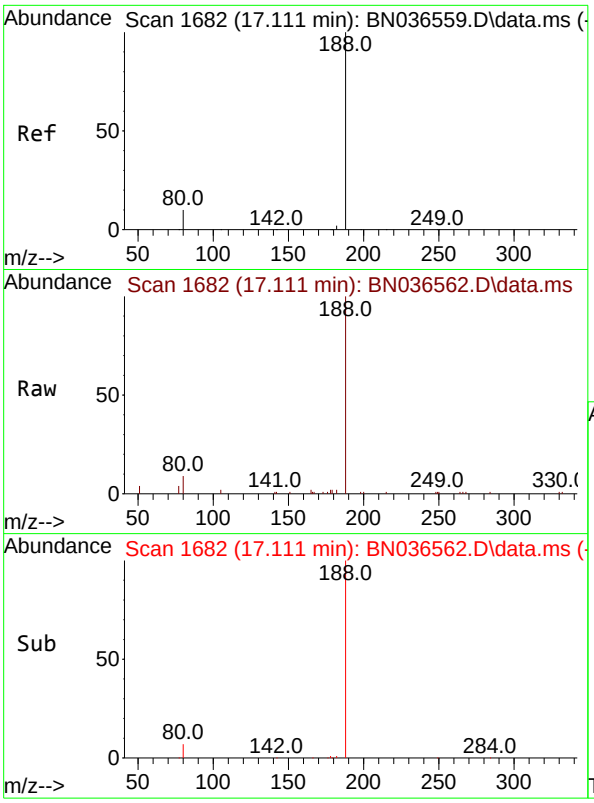


#18
Fluorene
Concen: 3.404 ng
RT: 15.414 min Scan# 1544
Delta R.T. -0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:166 Resp: 56295

Ion	Ratio	Lower	Upper
166	100		
165	100.2	79.8	119.8
167	13.0	10.6	15.8



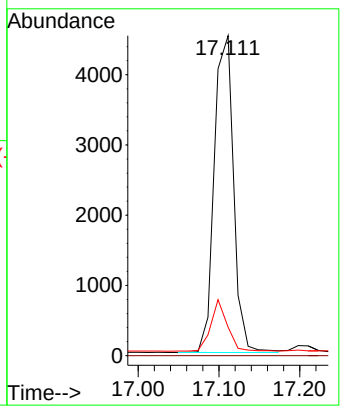


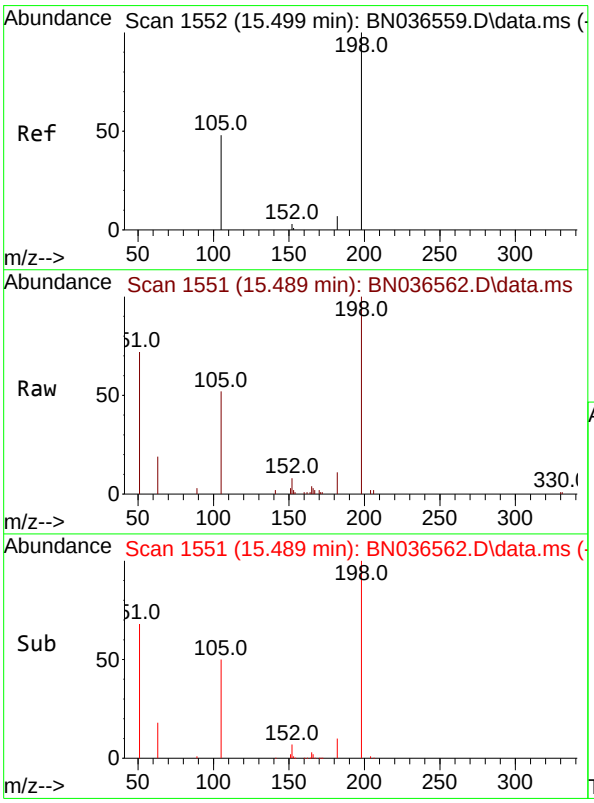
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:188 Resp: 7488

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.9	8.8	13.2

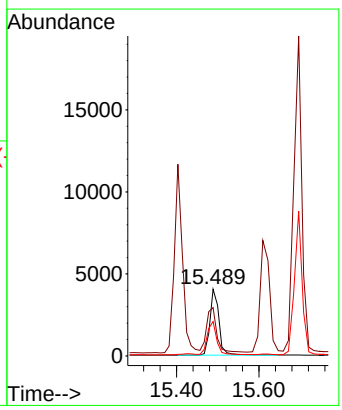


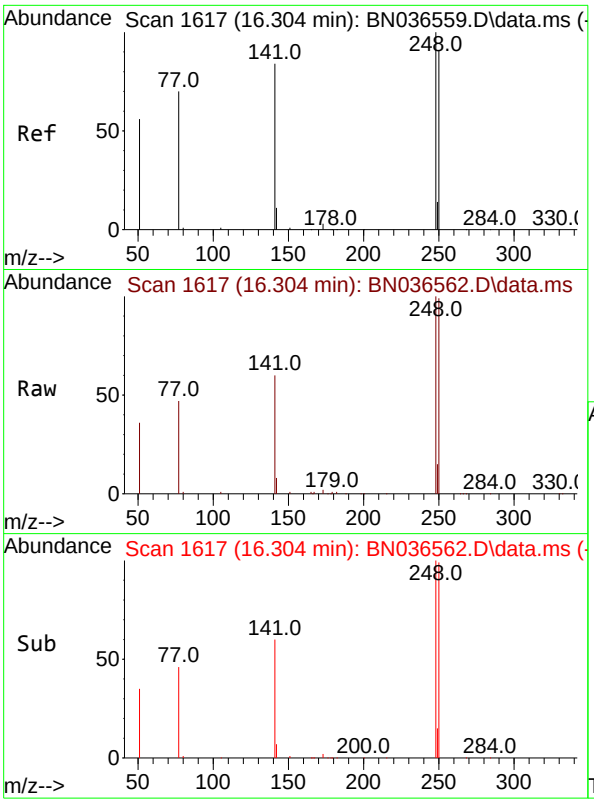


#20
4,6-Dinitro-2-methylphenol
Concen: 3.315 ng
RT: 15.489 min Scan# 1551
Delta R.T. -0.010 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:198 Resp: 6567

Ion	Ratio	Lower	Upper
198	100		
51	72.3	107.9	161.9#
105	51.5	56.2	84.2#



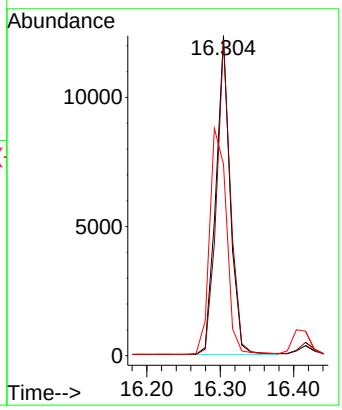


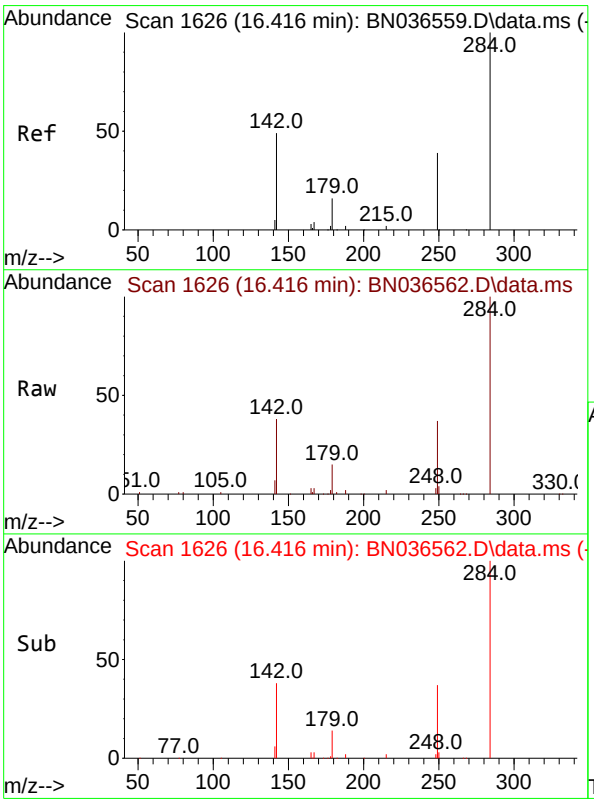
#21
4-Bromophenyl-phenylether
Concen: 3.549 ng
RT: 16.304 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:248 Resp: 16652

Ion	Ratio	Lower	Upper
248	100		
250	98.6	73.0	109.6
141	59.8	68.6	103.0#

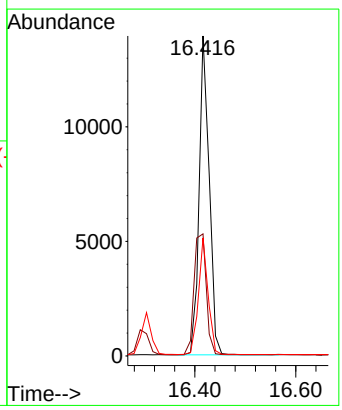


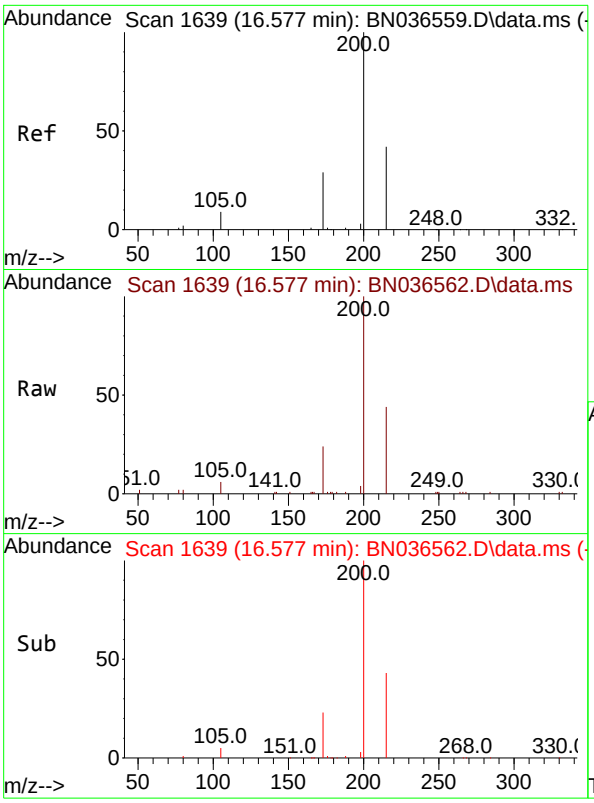


#22
Hexachlorobenzene
Concen: 3.406 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:284 Resp: 19287

Ion	Ratio	Lower	Upper
284	100		
142	46.2	37.0	55.4
249	35.5	28.1	42.1



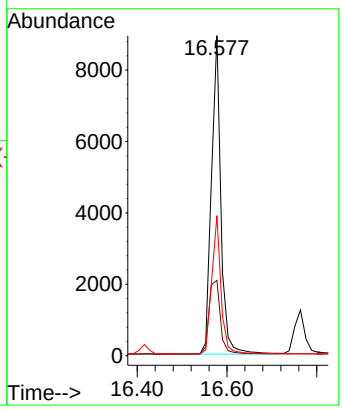


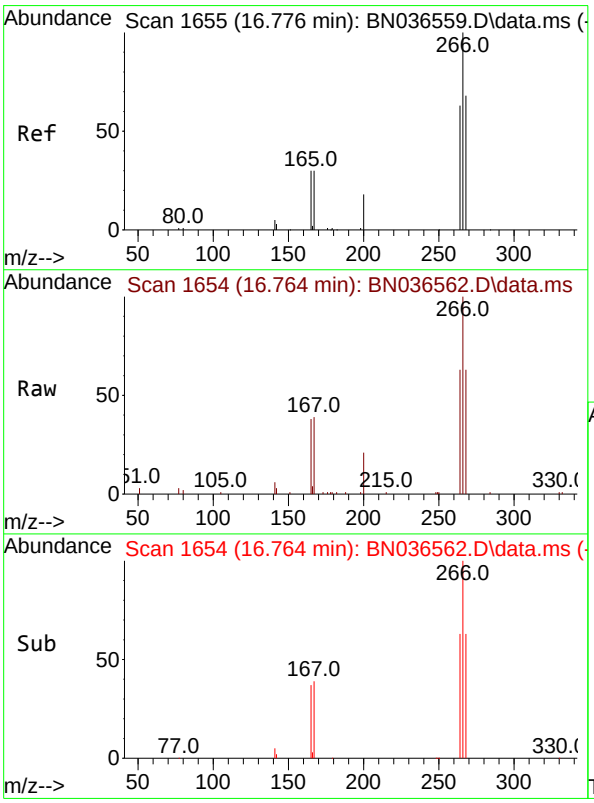
#23
Atrazine
Concen: 3.448 ng
RT: 16.577 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:200 Resp: 12969

Ion	Ratio	Lower	Upper
200	100		
173	23.6	27.3	40.9#
215	43.7	36.8	55.2

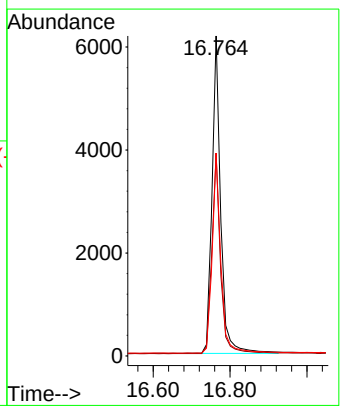


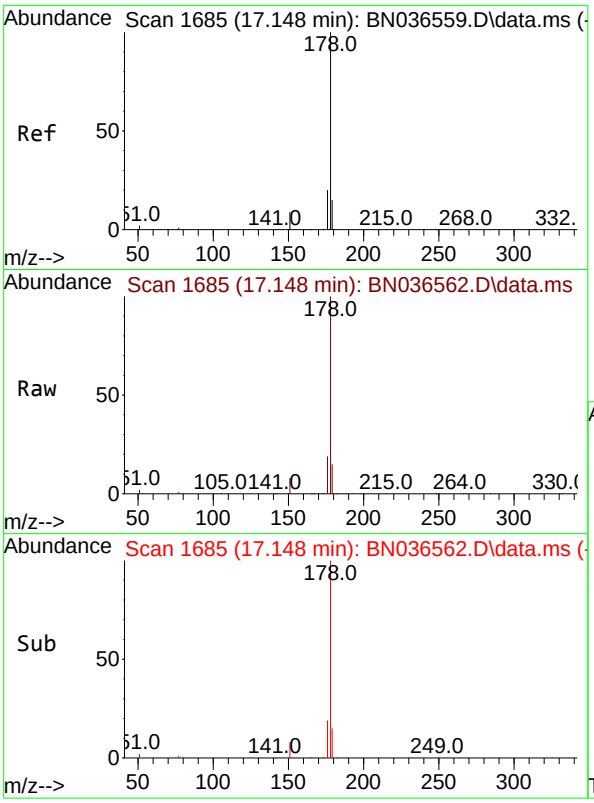


#24
Pentachlorophenol
Concen: 3.726 ng
RT: 16.764 min Scan# 1654
Delta R.T. -0.012 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:266 Resp: 9625

Ion	Ratio	Lower	Upper
266	100		
264	63.1	49.6	74.4
268	63.1	50.9	76.3



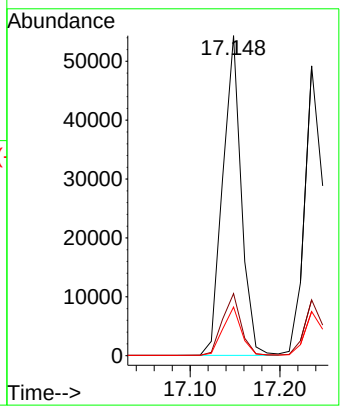


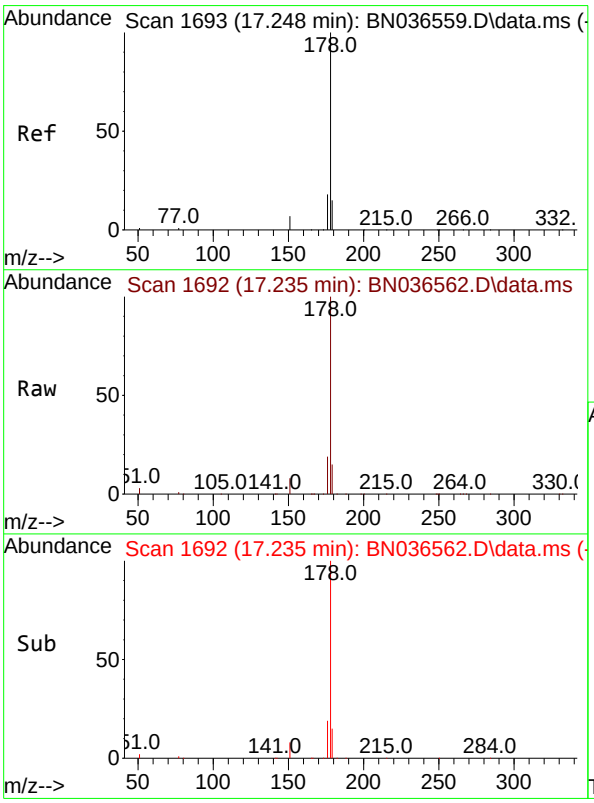
#25
Phenanthrene
Concen: 3.468 ng
RT: 17.148 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:178 Resp: 77903

Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.9	23.9
179	15.1	12.2	18.4

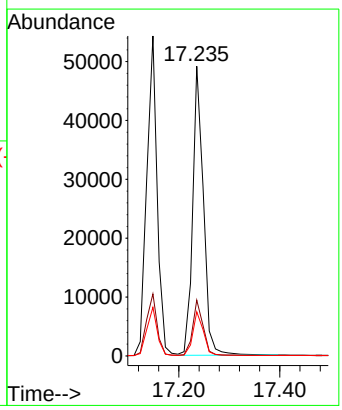


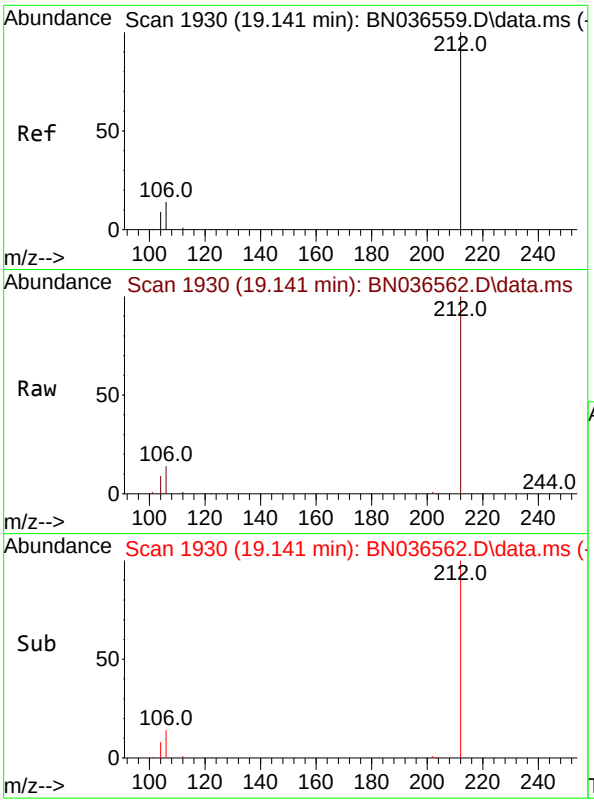


#26
Anthracene
Concen: 3.590 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.012 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:178 Resp: 72775

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.4	23.2
179	15.2	12.6	18.8



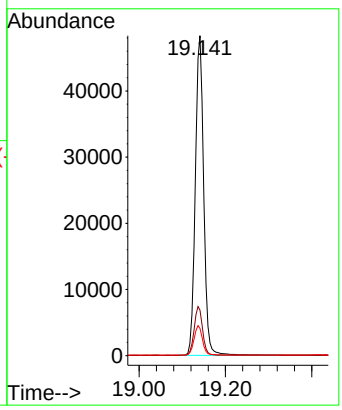


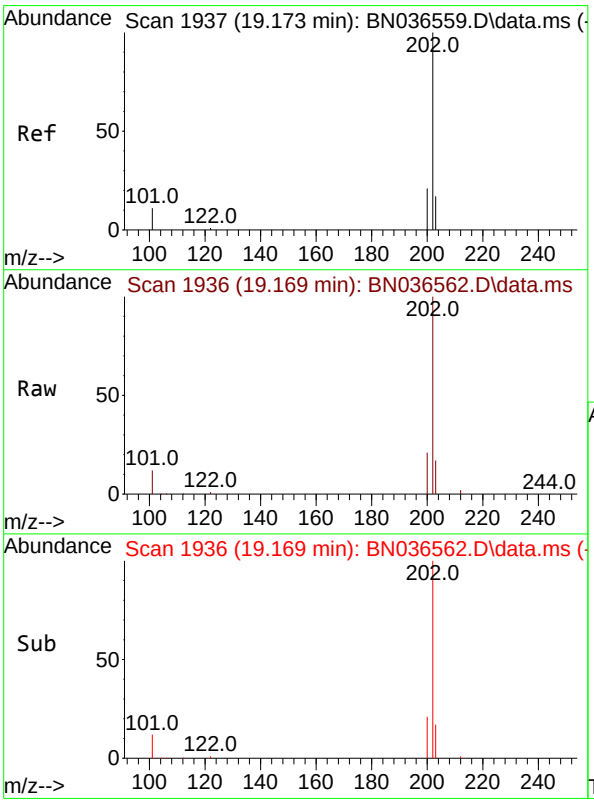
#27
Fluoranthene-d10
Concen: 3.394 ng
RT: 19.141 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:212 Resp: 65134

Ion	Ratio	Lower	Upper
212	100		
106	15.4	11.8	17.6
104	9.2	7.3	10.9

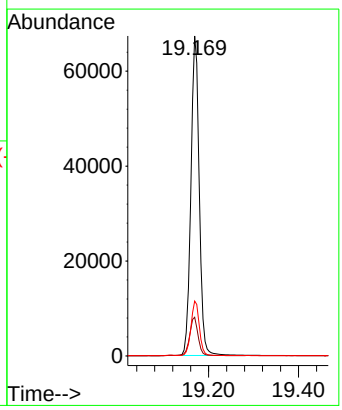


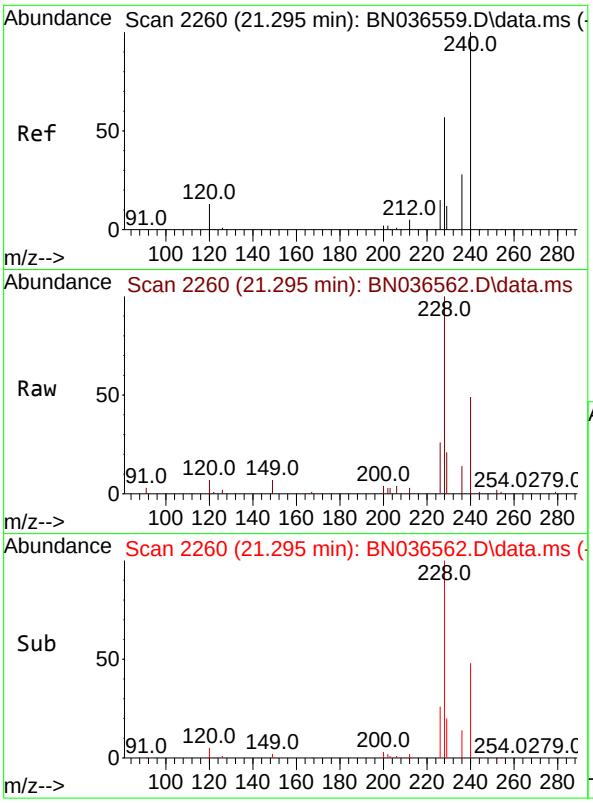


#28
Fluoranthene
Concen: 3.436 ng
RT: 19.169 min Scan# 1936
Delta R.T. -0.005 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:202 Resp: 86688

Ion	Ratio	Lower	Upper
202	100		
101	12.3	9.4	14.0
203	17.0	13.5	20.3



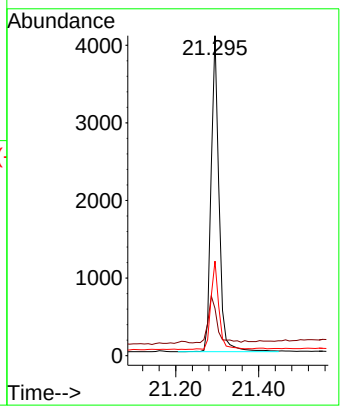


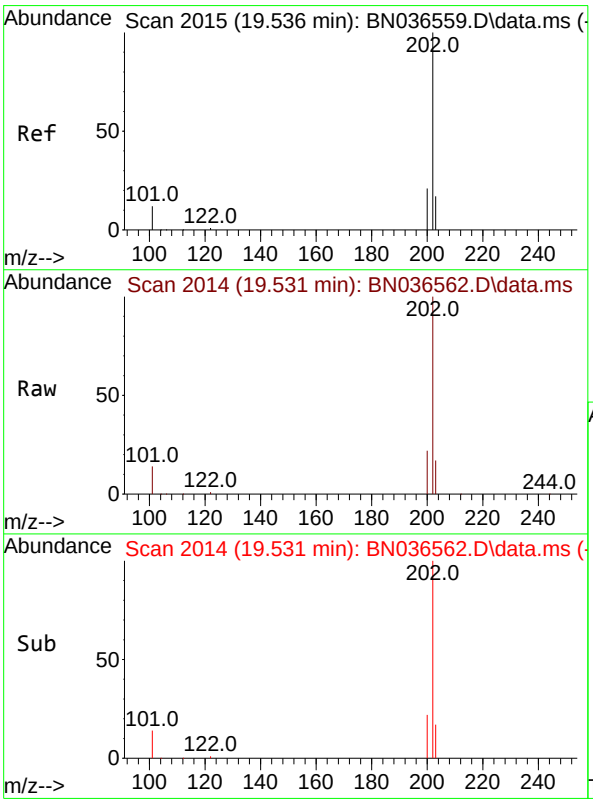
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:240 Resp: 5439

Ion	Ratio	Lower	Upper
240	100		
120	14.8	14.6	22.0
236	29.5	24.1	36.1

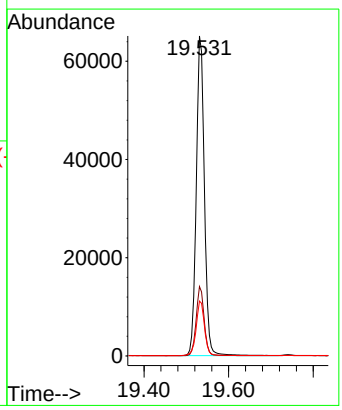


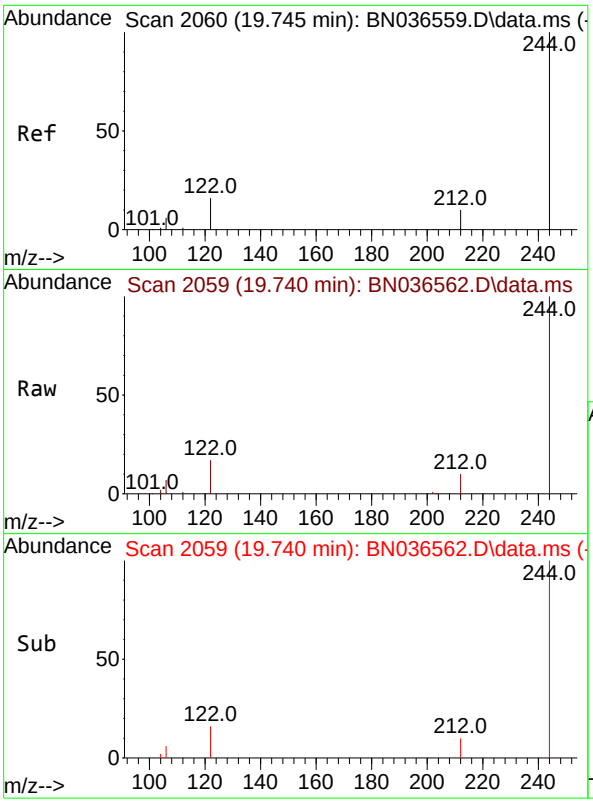


#30
Pyrene
Concen: 3.260 ng
RT: 19.531 min Scan# 2014
Delta R.T. -0.005 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:202 Resp: 86694

Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.1	25.7
203	17.6	14.1	21.1



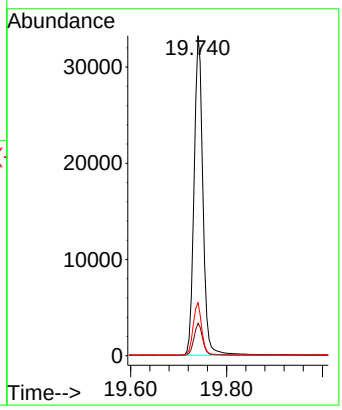


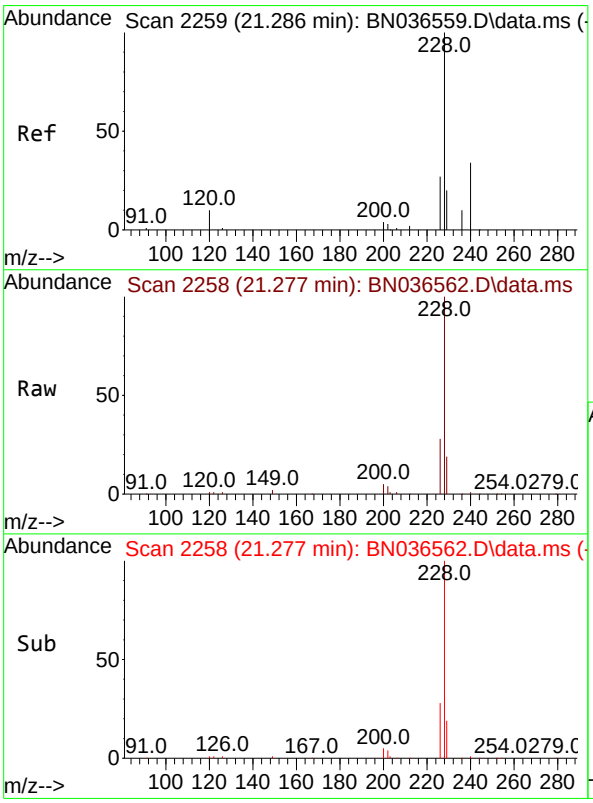
#31
Terphenyl-d14
Concen: 3.297 ng
RT: 19.740 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:244 Resp: 42959

Ion	Ratio	Lower	Upper
244	100		
212	10.1	9.6	14.4
122	16.6	13.9	20.9

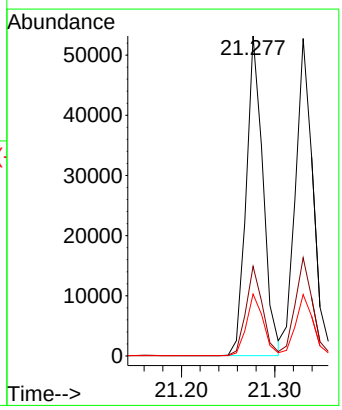


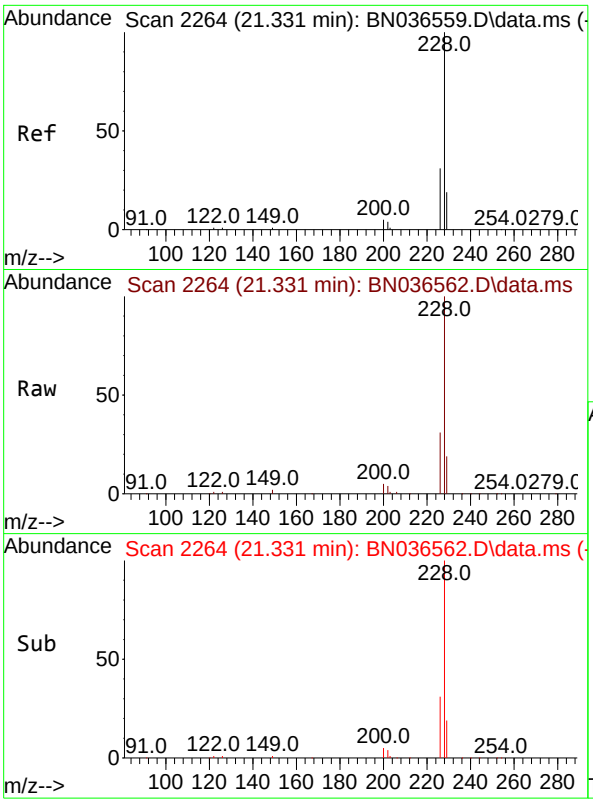


#32
Benzo(a)anthracene
Concen: 3.516 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.009 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:228 Resp: 66496

Ion	Ratio	Lower	Upper
228	100		
226	28.0	22.5	33.7
229	19.4	16.6	25.0



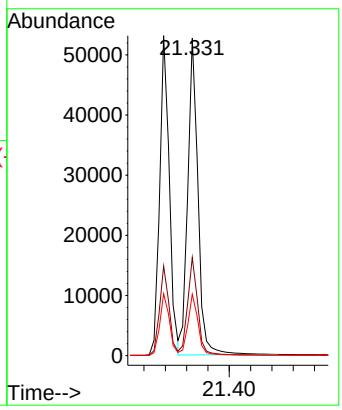


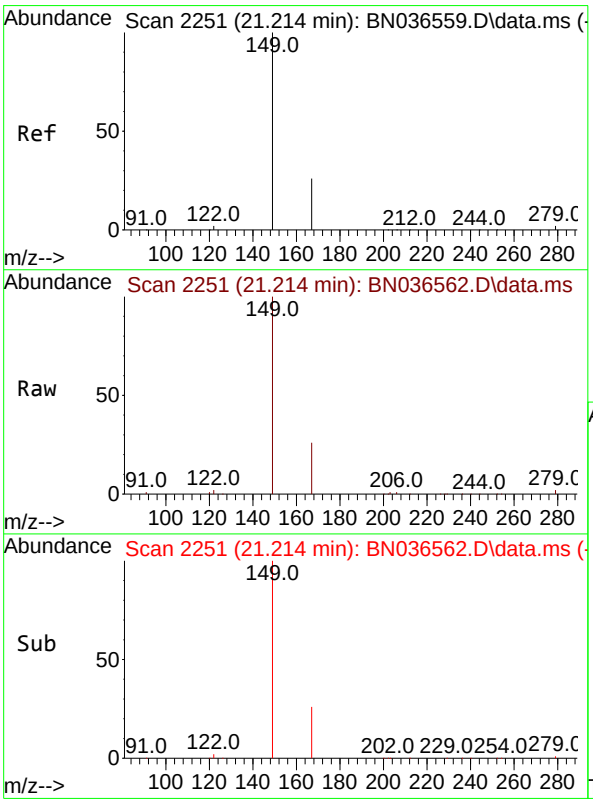
#33
Chrysene
Concen: 3.403 ng
RT: 21.331 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:228 Resp: 70334

Ion	Ratio	Lower	Upper
228	100		
226	31.0	25.3	37.9
229	19.4	15.8	23.8

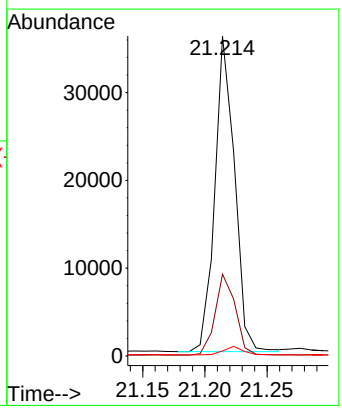


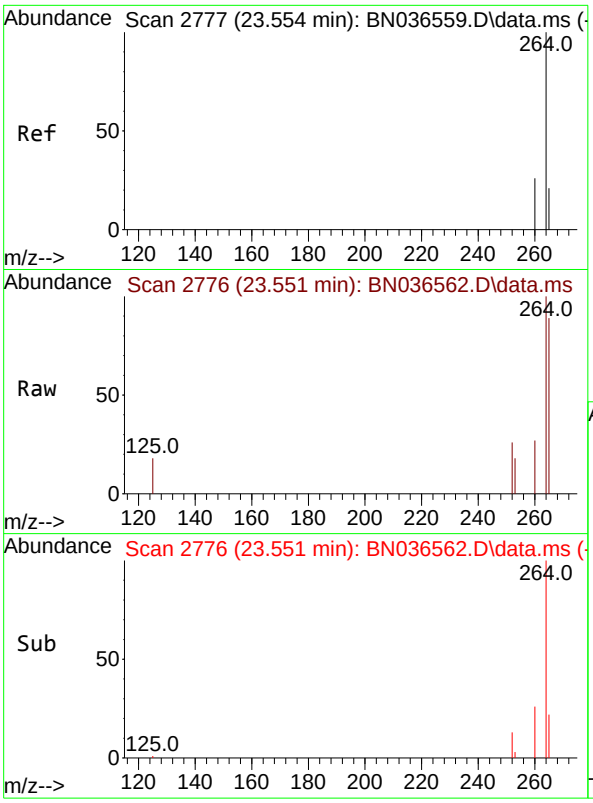


#34
Bis(2-ethylhexyl)phthalate
Concen: 2.947 ng
RT: 21.214 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:149 Resp: 39682

Ion	Ratio	Lower	Upper
149	100		
167	26.3	20.7	31.1
279	2.6	3.6	5.4#



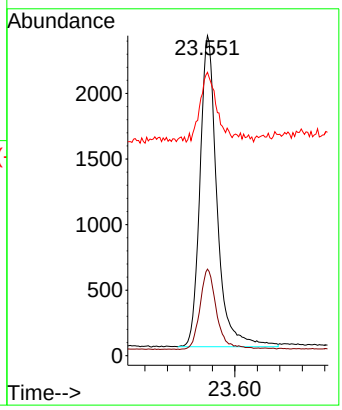


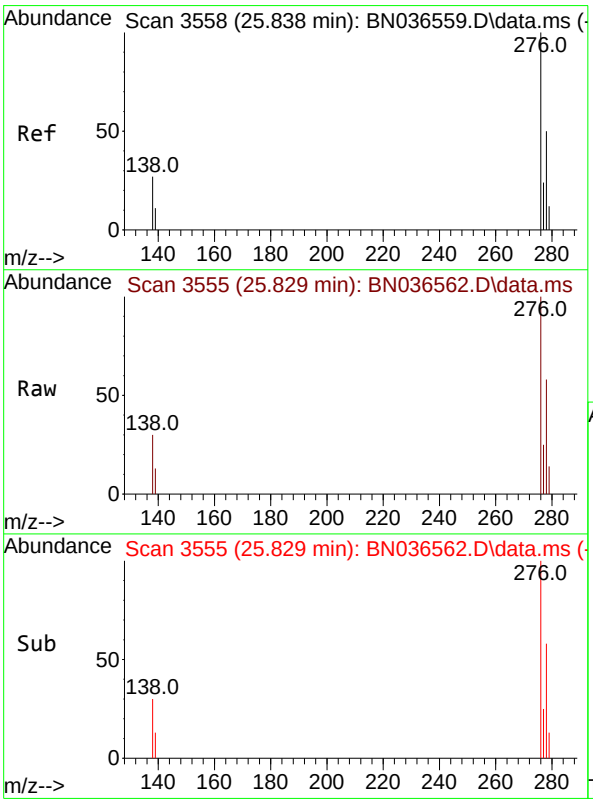
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.551 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:264 Resp: 5002

Ion	Ratio	Lower	Upper
264	100		
260	27.0	22.6	33.8
265	88.6	88.1	132.1

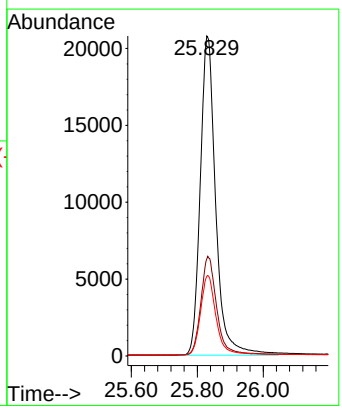


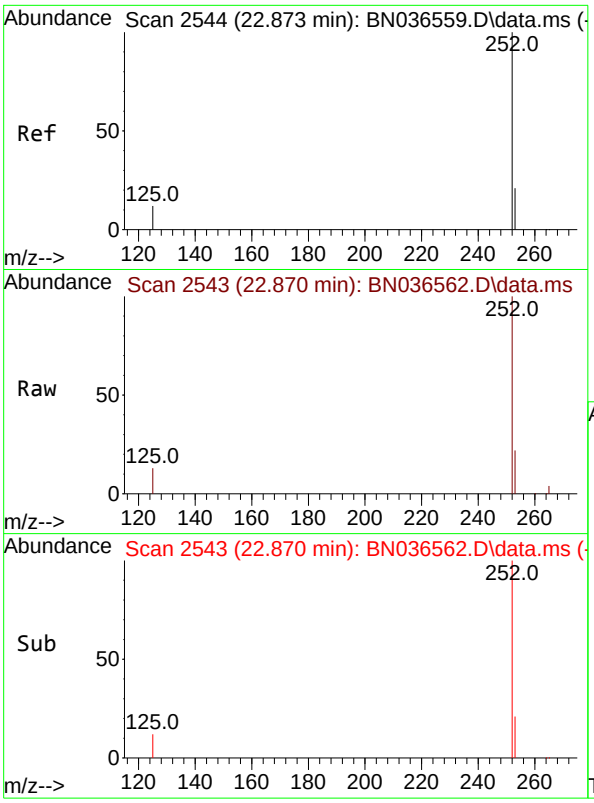


#36
Indeno(1,2,3-cd)pyrene
Concen: 3.754 ng
RT: 25.829 min Scan# 3555
Delta R.T. -0.009 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:276 Resp: 67767

Ion	Ratio	Lower	Upper
276	100		
138	31.3	23.4	35.2
277	24.8	20.0	30.0



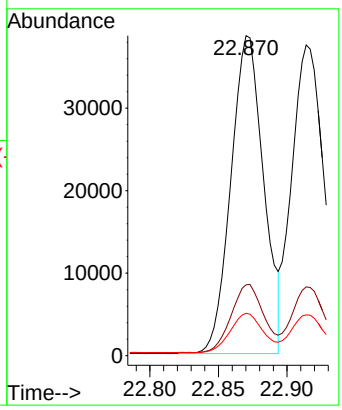


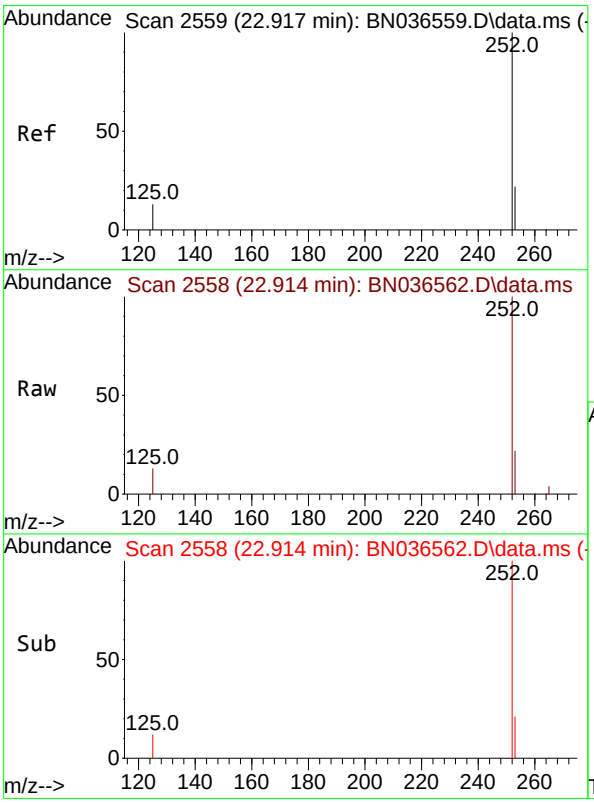
#37
Benzo(b)fluoranthene
Concen: 3.506 ng
RT: 22.870 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:252 Resp: 63823

Ion	Ratio	Lower	Upper
252	100		
253	22.2	23.9	35.9#
125	13.3	17.4	26.2#

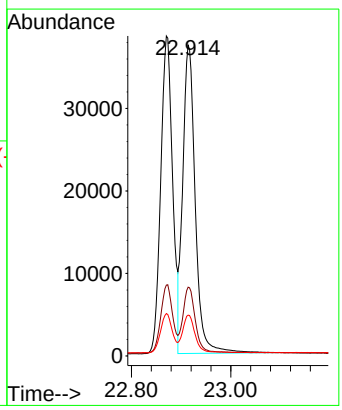


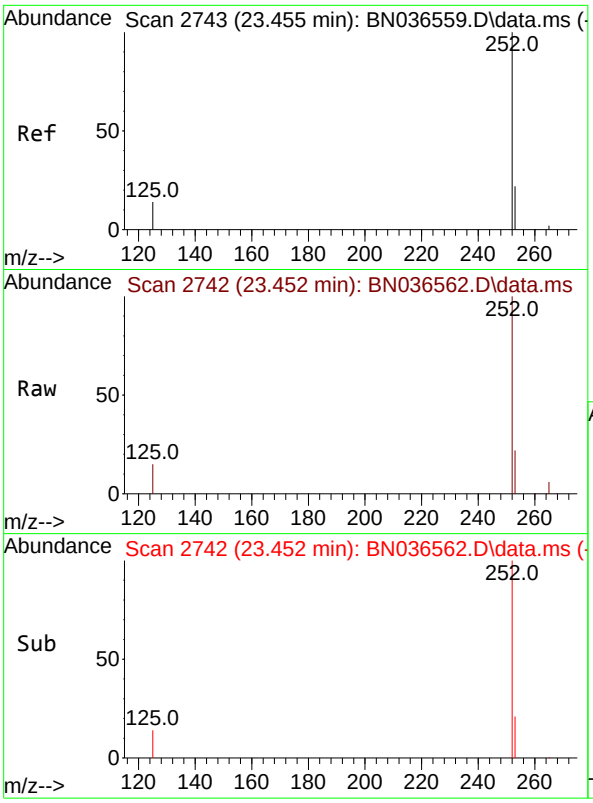


#38
Benzo(k)fluoranthene
Concen: 3.425 ng
RT: 22.914 min Scan# 2558
Delta R.T. -0.003 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:252 Resp: 65410

Ion	Ratio	Lower	Upper
252	100		
253	22.1	24.6	36.8#
125	13.2	17.8	26.8#



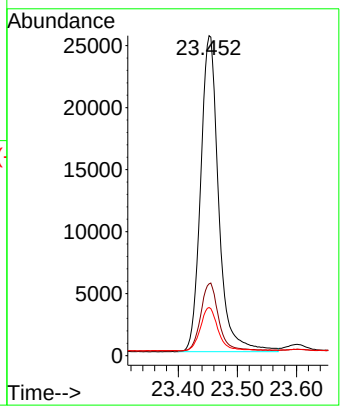


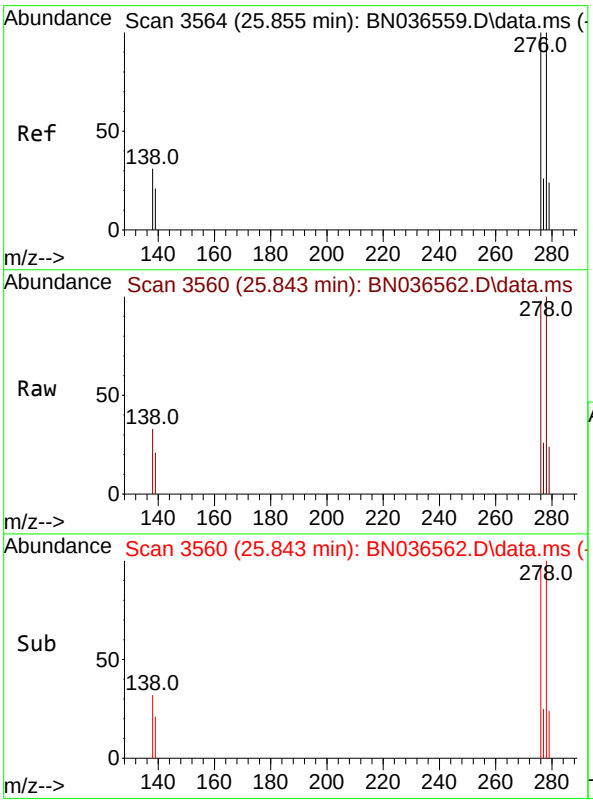
#39
Benzo(a)pyrene
Concen: 3.523 ng
RT: 23.452 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:252 Resp: 54009

Ion	Ratio	Lower	Upper
252	100		
253	22.4	27.8	41.8#
125	15.1	22.7	34.1#

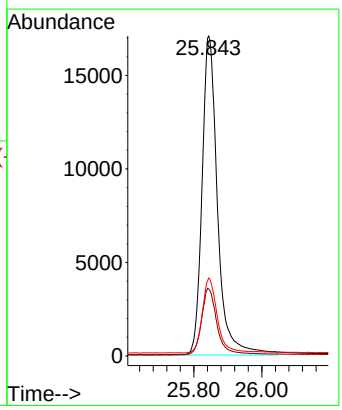


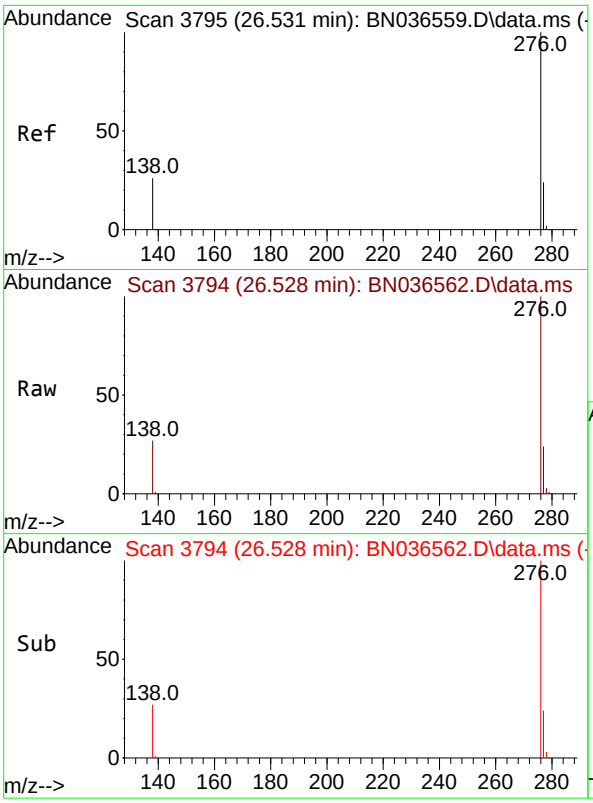


#40
Dibenzo(a,h)anthracene
Concen: 3.846 ng
RT: 25.843 min Scan# 3560
Delta R.T. -0.012 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:278 Resp: 54058

Ion	Ratio	Lower	Upper
278	100		
139	20.9	20.8	31.2
279	24.4	28.8	43.2#



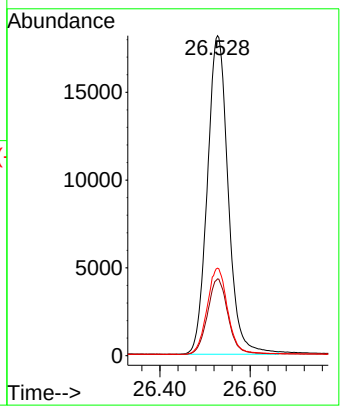


#41
Benzo(g,h,i)perylene
Concen: 3.606 ng
RT: 26.528 min Scan# 3
Delta R.T. -0.003 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:276 Resp: 57986

Ion	Ratio	Lower	Upper
276	100		
277	24.0	22.2	33.4
138	27.4	24.1	36.1



Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036563.D
Acq On : 10 Mar 2025 15:19
Operator : RC/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Quant Time: Mar 10 16:03:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:54:23 2025
Response via : Initial Calibration

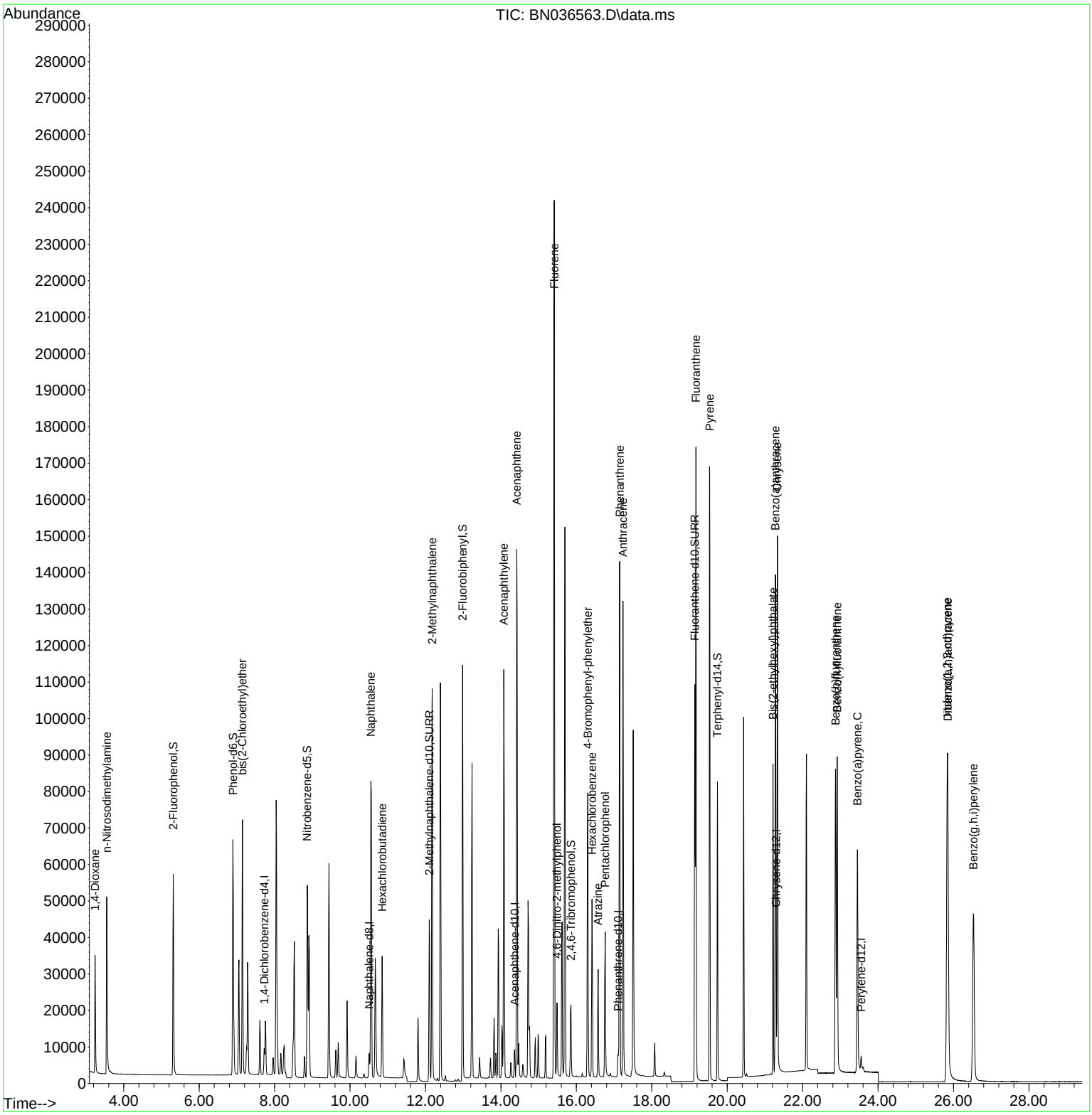
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	3261	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	7995	0.400	ng	# 0.00
13) Acenaphthene-d10	14.366	164	4664	0.400	ng	0.00
19) Phenanthrene-d10	17.111	188	9061	0.400	ng	0.00
29) Chrysene-d12	21.295	240	6472	0.400	ng	0.00
35) Perylene-d12	23.551	264	5580	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	37154	4.889	ng	0.00
5) Phenol-d6	6.894	99	48085	5.122	ng	0.00
8) Nitrobenzene-d5	8.864	82	41042	4.719	ng	-0.01
11) 2-Methylnaphthalene-d10	12.101	152	58048	4.881	ng	-0.01
14) 2,4,6-Tribromophenol	15.858	330	10964	5.181	ng	0.00
15) 2-Fluorobiphenyl	12.983	172	141052	5.199	ng	0.00
27) Fluoranthene-d10	19.141	212	113317	4.879	ng	0.00
31) Terphenyl-d14	19.740	244	74923	4.832	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.239	88	16253	4.492	ng	97
3) n-Nitrosodimethylamine	3.550	42	32163	4.395	ng	# 95
6) bis(2-Chloroethyl)ether	7.146	93	44986	4.636	ng	99
9) Naphthalene	10.551	128	109289	4.647	ng	97
10) Hexachlorobutadiene	10.850	225	25105	4.535	ng	# 99
12) 2-Methylnaphthalene	12.177	142	73010	4.879	ng	98
16) Acenaphthylene	14.077	152	112792	5.125	ng	99
17) Acenaphthene	14.420	154	72446	5.028	ng	96
18) Fluorene	15.414	166	96215	4.937	ng	97
20) 4,6-Dinitro-2-methylph...	15.489	198	12627	4.968	ng	# 56
21) 4-Bromophenyl-phenylether	16.304	248	28657	5.048	ng	# 81
22) Hexachlorobenzene	16.416	284	32686	4.770	ng	99
23) Atrazine	16.577	200	22705	4.988	ng	# 90
24) Pentachlorophenol	16.764	266	17612	5.634	ng	99
25) Phenanthrene	17.148	178	135347	4.979	ng	100
26) Anthracene	17.235	178	125954	5.135	ng	99
28) Fluoranthene	19.169	202	149107	4.883	ng	99
30) Pyrene	19.536	202	148584	4.695	ng	100
32) Benzo(a)anthracene	21.277	228	114481	5.087	ng	98
33) Chrysene	21.331	228	117149	4.764	ng	99
34) Bis(2-ethylhexyl)phtha...	21.214	149	70345	4.390	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.835	276	109561	5.440	ng	98
37) Benzo(b)fluoranthene	22.873	252	104498	5.146	ng	# 84
38) Benzo(k)fluoranthene	22.917	252	106995	5.022	ng	# 82
39) Benzo(a)pyrene	23.452	252	88413	5.170	ng	# 76
40) Dibenzo(a,h)anthracene	25.846	278	87308	5.568	ng	# 84
41) Benzo(g,h,i)perylene	26.531	276	93067	5.189	ng	93

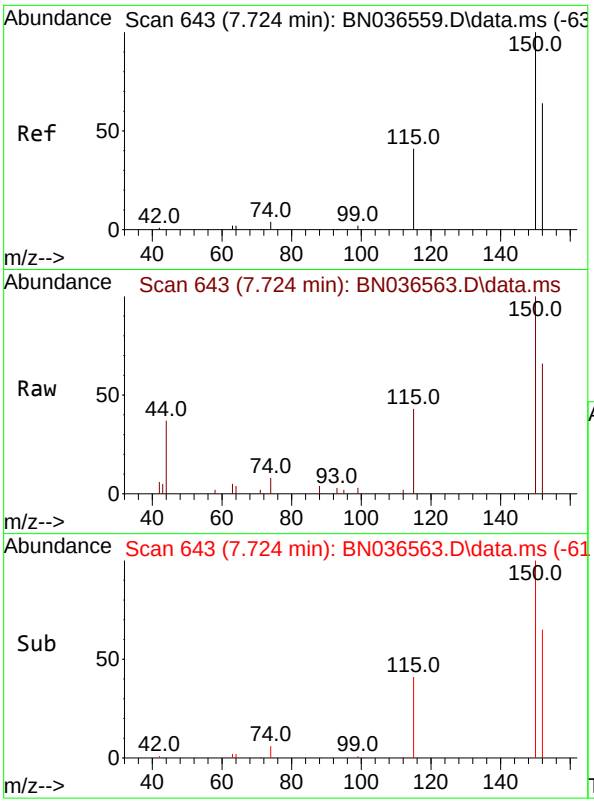
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036563.D
Acq On : 10 Mar 2025 15:19
Operator : RC/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Quant Time: Mar 10 16:03:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:54:23 2025
Response via : Initial Calibration



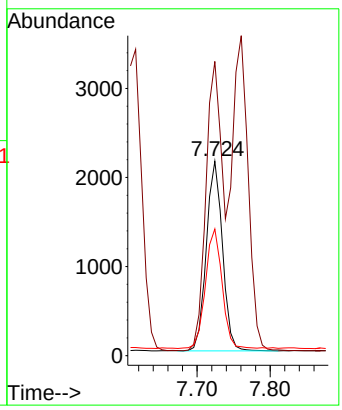


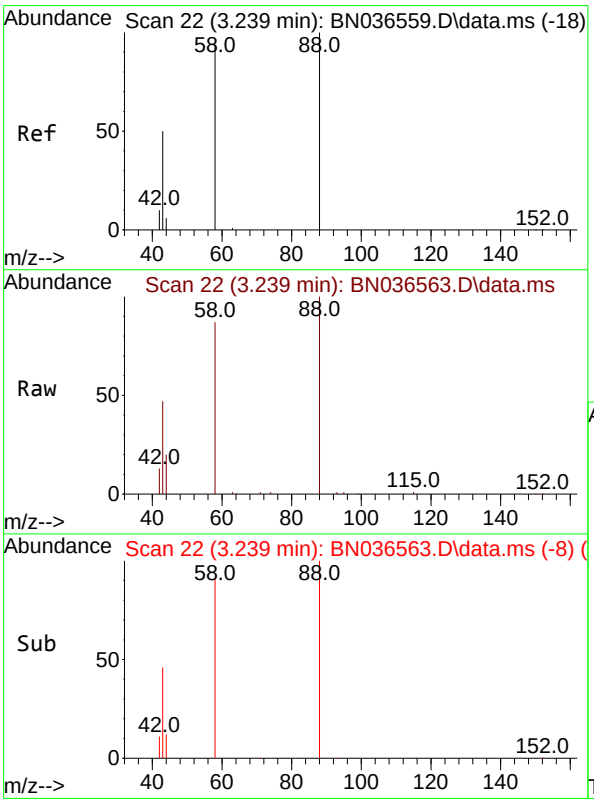
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:152 Resp: 3261

Ion	Ratio	Lower	Upper
152	100		
150	151.3	123.7	185.5
115	65.2	54.3	81.5

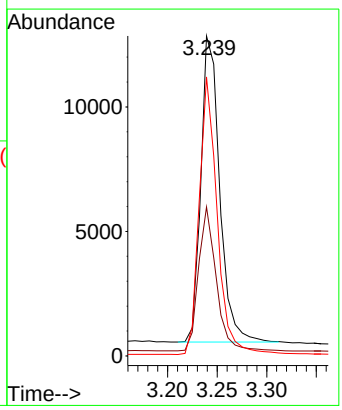


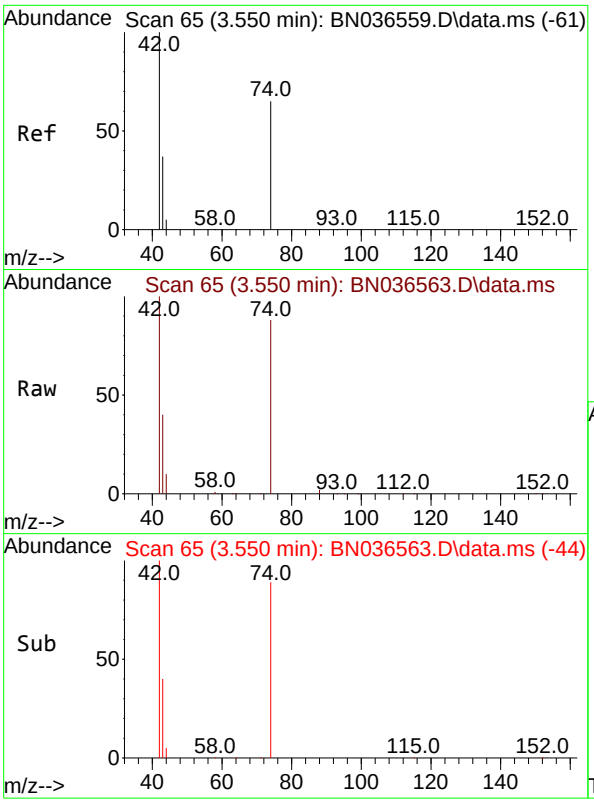


#2
1,4-Dioxane
Concen: 4.492 ng
RT: 3.239 min Scan# 22
Delta R.T. -0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion: 88 Resp: 16253

Ion	Ratio	Lower	Upper
88	100		
43	44.3	37.8	56.8
58	86.4	67.4	101.2



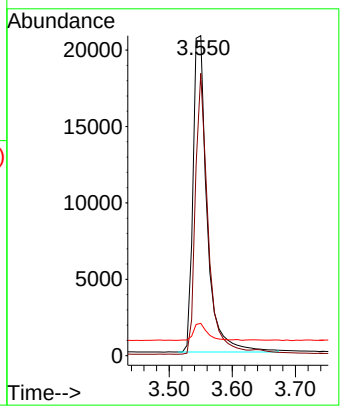


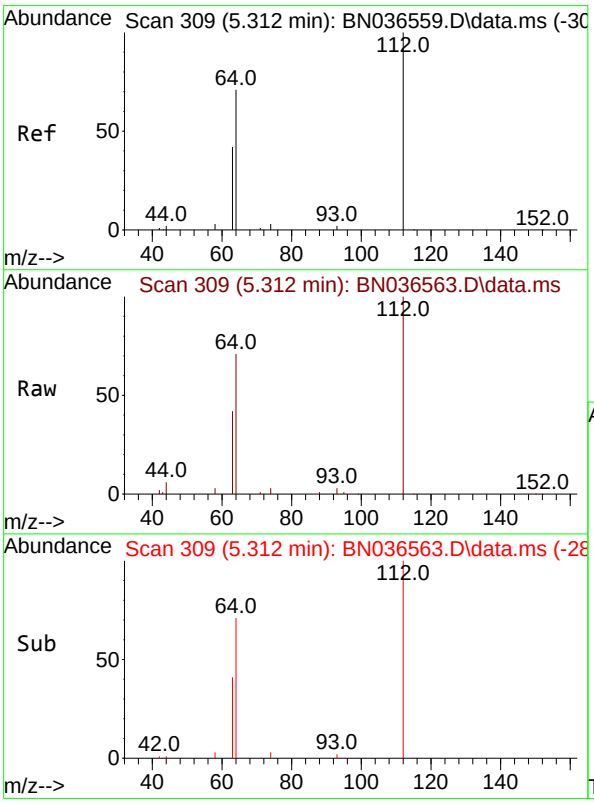
#3
n-Nitrosodimethylamine
Concen: 4.395 ng
RT: 3.550 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion: 42 Resp: 32163

Ion	Ratio	Lower	Upper
42	100		
74	79.9	60.6	90.8
44	5.3	6.3	9.5#

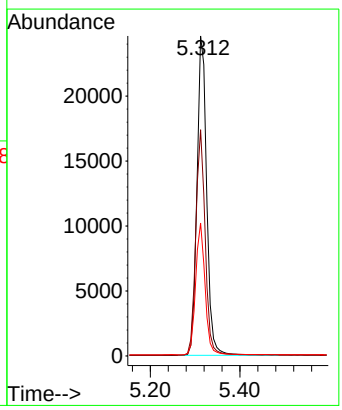


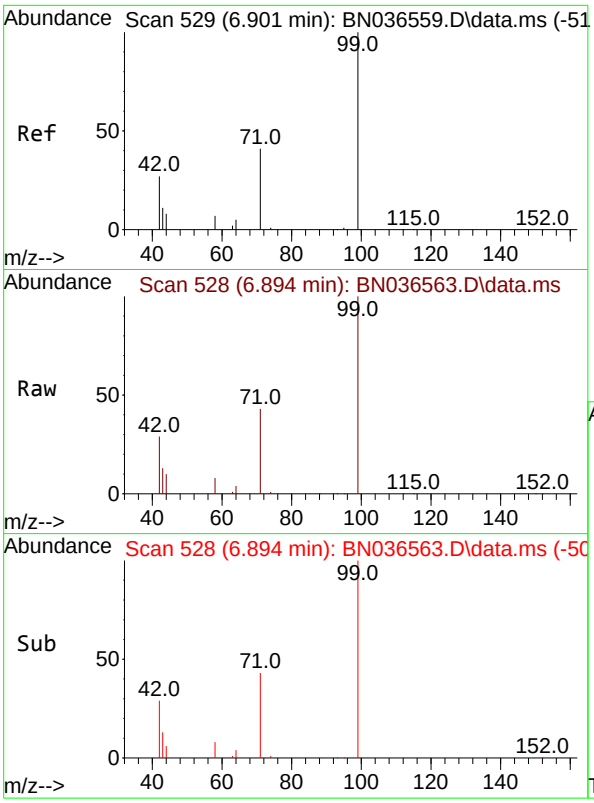


#4
2-Fluorophenol
Concen: 4.889 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion:112 Resp: 37154

Ion	Ratio	Lower	Upper
112	100		
64	68.5	53.1	79.7
63	40.1	31.8	47.8



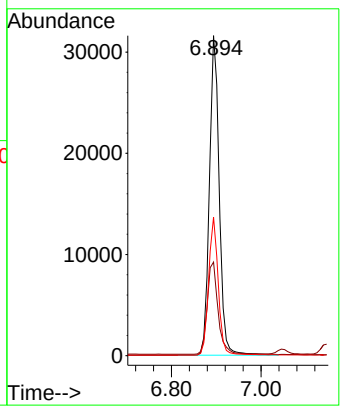


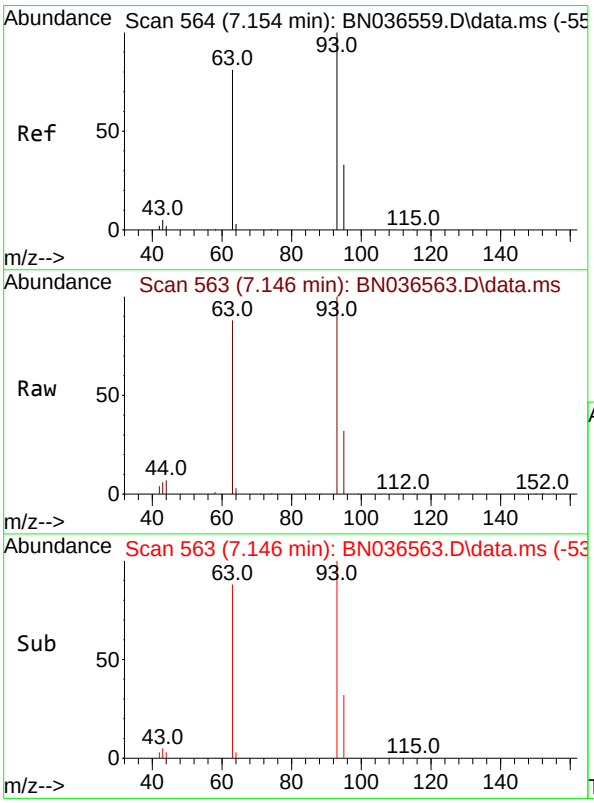
#5
Phenol-d6
Concen: 5.122 ng
RT: 6.894 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion: 99 Resp: 48085

Ion	Ratio	Lower	Upper
99	100		
42	31.8	26.5	39.7
71	42.6	34.1	51.1

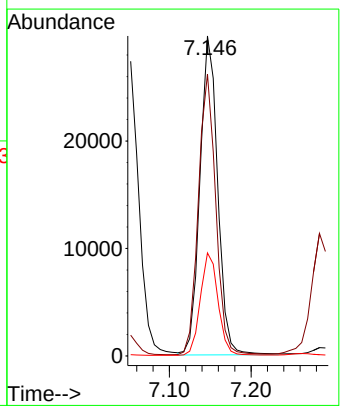


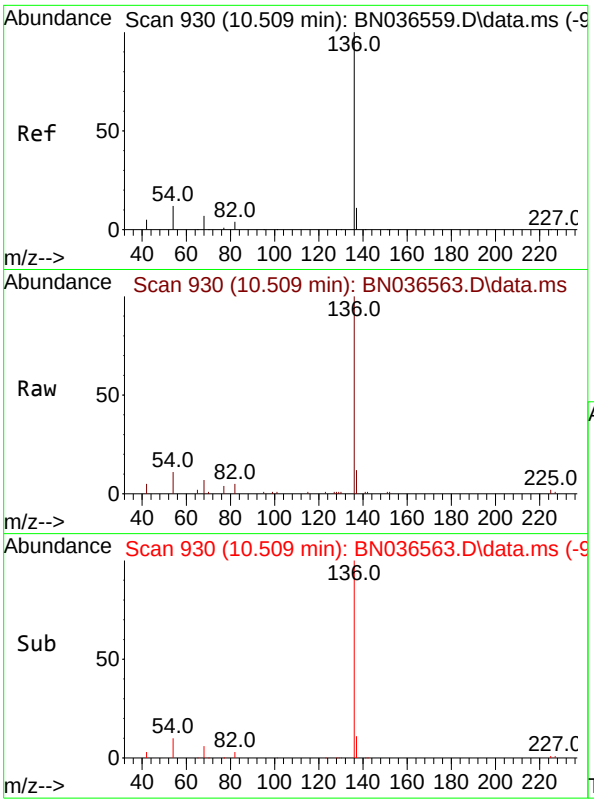


#6
bis(2-Chloroethyl)ether
Concen: 4.636 ng
RT: 7.146 min Scan# 563
Delta R.T. -0.007 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion: 93 Resp: 44986

Ion	Ratio	Lower	Upper
93	100		
63	85.8	67.7	101.5
95	32.0	25.6	38.4



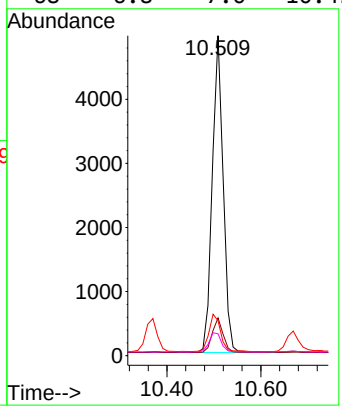


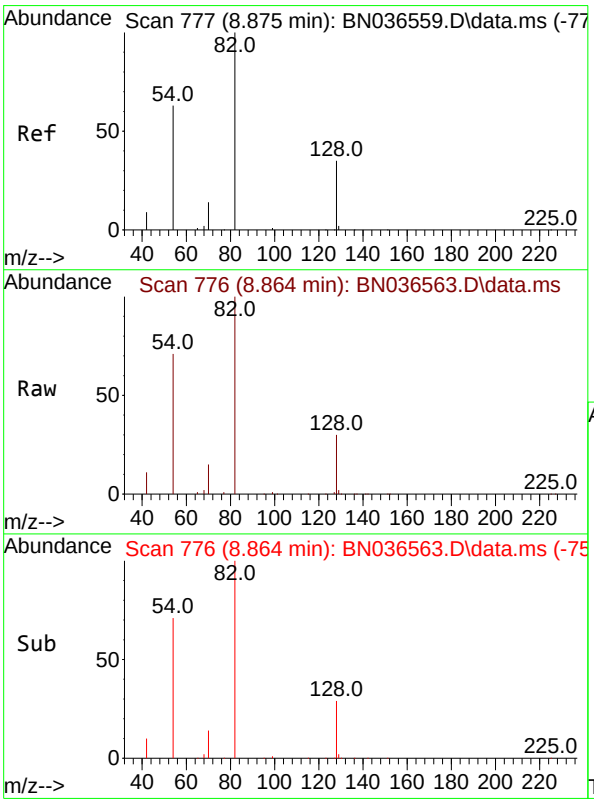
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:136 Resp: 7995

Ion	Ratio	Lower	Upper
136	100		
137	11.8	10.3	15.5
54	10.9	11.5	17.3#
68	6.8	7.0	10.4#

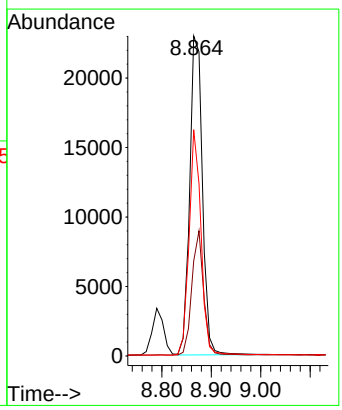


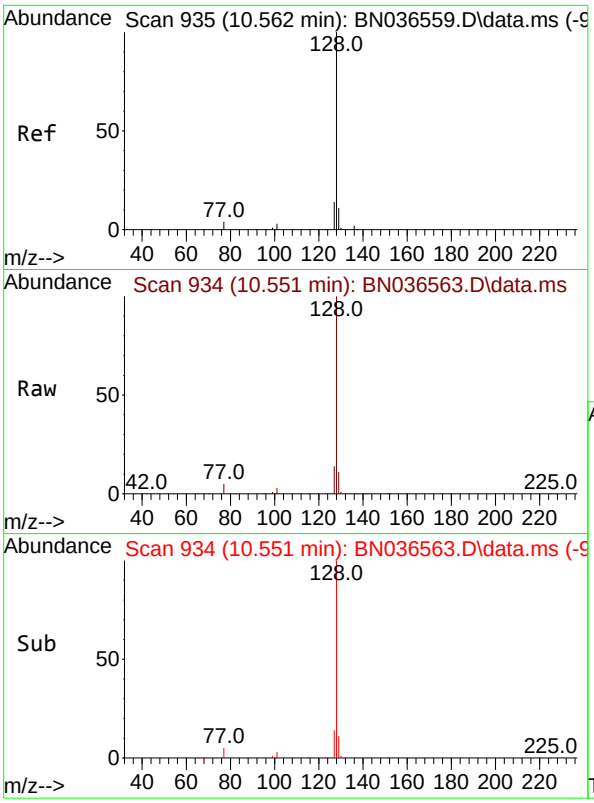


#8
Nitrobenzene-d5
Concen: 4.719 ng
RT: 8.864 min Scan# 776
Delta R.T. -0.011 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion: 82 Resp: 41042

Ion	Ratio	Lower	Upper
82	100		
128	29.7	30.6	45.8#
54	70.7	52.2	78.4



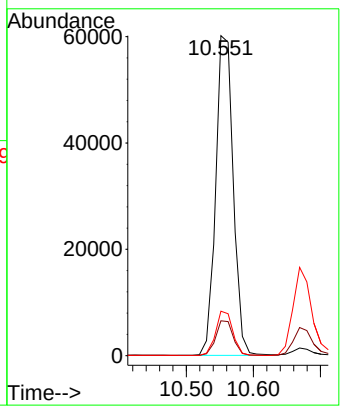


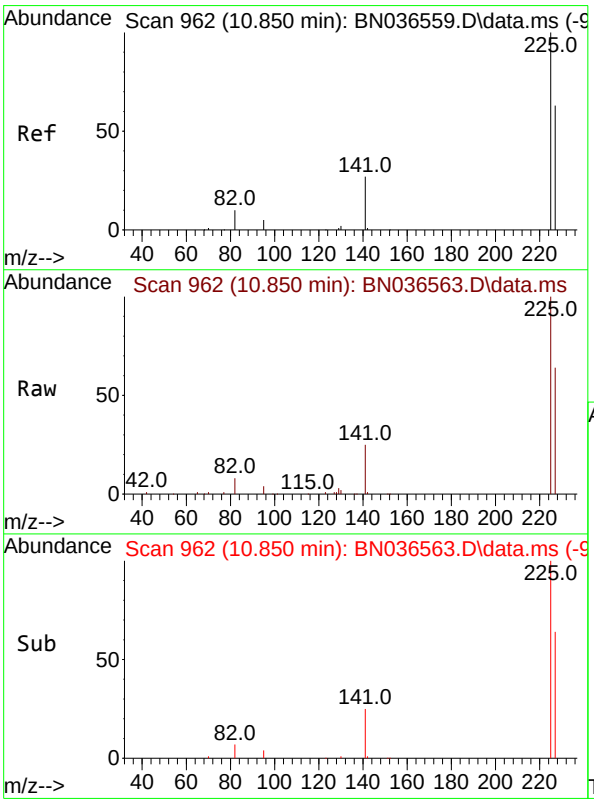
#9
Naphthalene
Concen: 4.647 ng
RT: 10.551 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:128 Resp: 109289

Ion	Ratio	Lower	Upper
128	100		
129	10.9	9.8	14.6
127	13.9	11.8	17.8

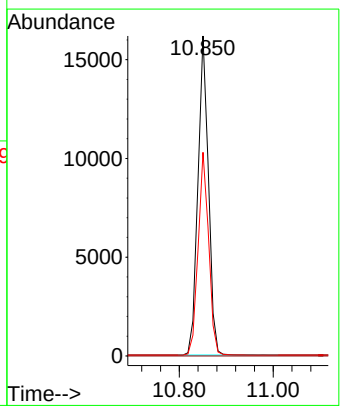


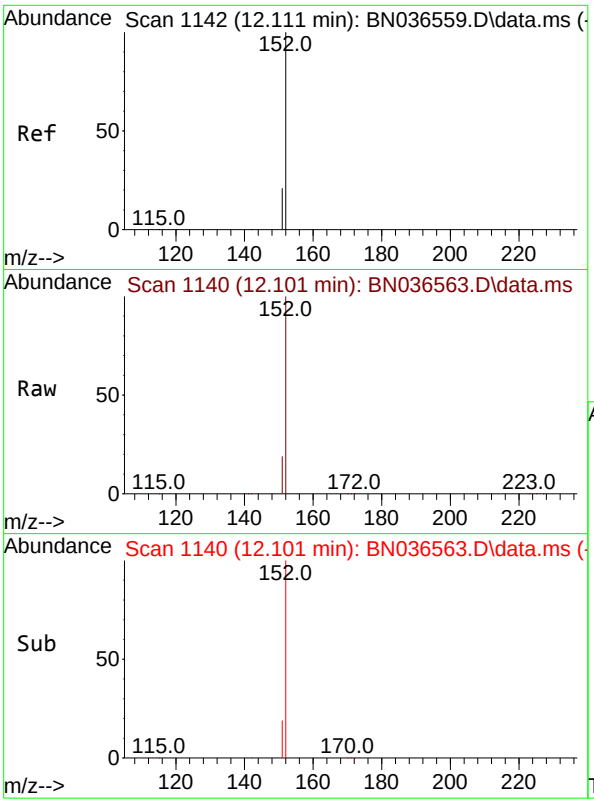


#10
Hexachlorobutadiene
Concen: 4.535 ng
RT: 10.850 min Scan# 962
Delta R.T. -0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion:225 Resp: 25105

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.7	51.8	77.8



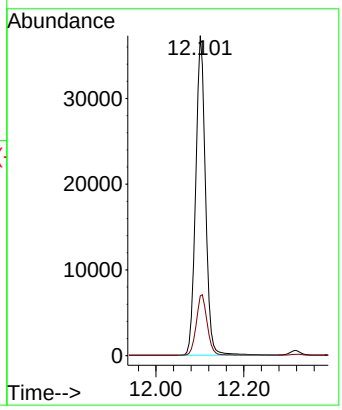


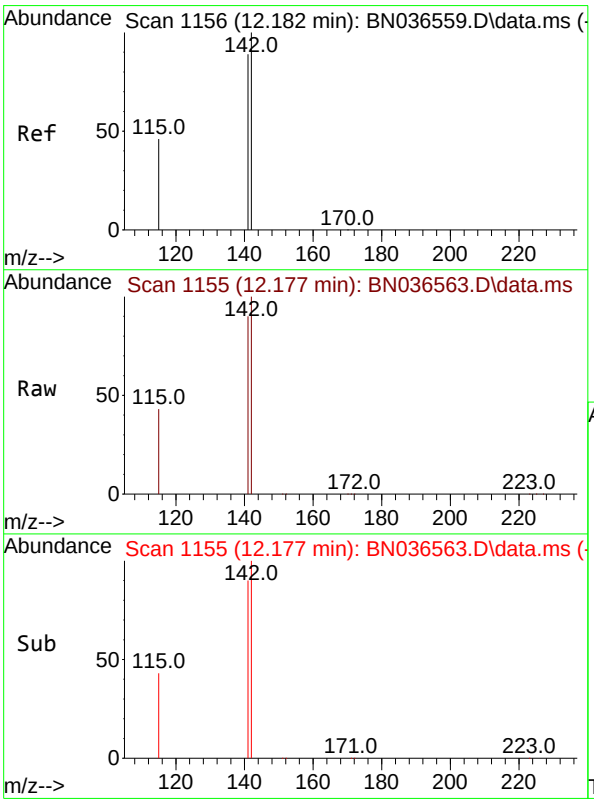
#11
2-Methylnaphthalene-d10
Concen: 4.881 ng
RT: 12.101 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:152 Resp: 58048

Ion	Ratio	Lower	Upper
152	100		
151	21.2	17.0	25.6

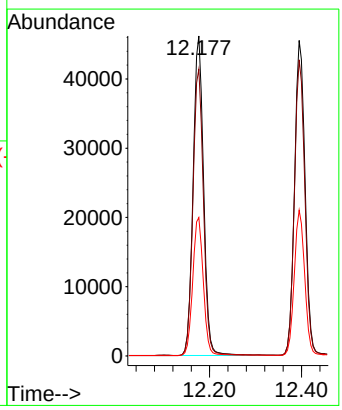


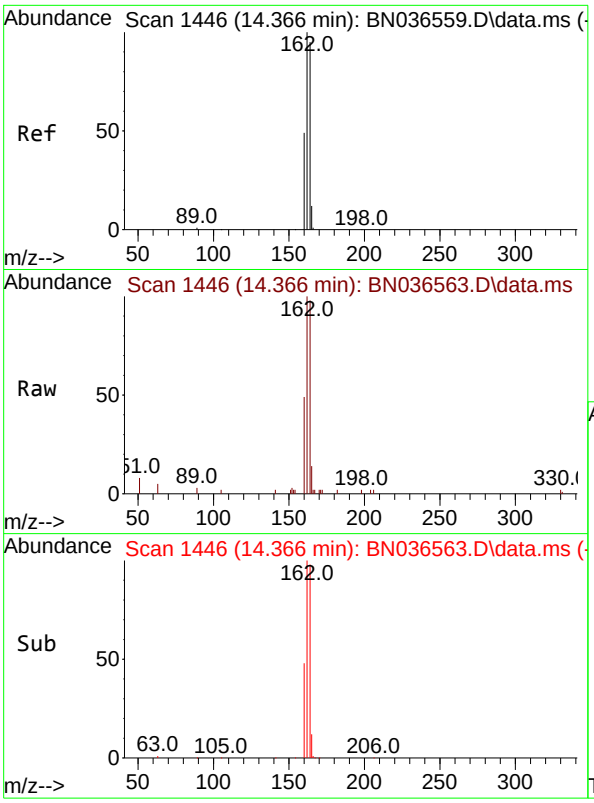


#12
2-Methylnaphthalene
Concen: 4.879 ng
RT: 12.177 min Scan# 1155
Delta R.T. -0.005 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion:142 Resp: 73010

Ion	Ratio	Lower	Upper
142	100		
141	89.6	71.7	107.5
115	43.2	38.3	57.5



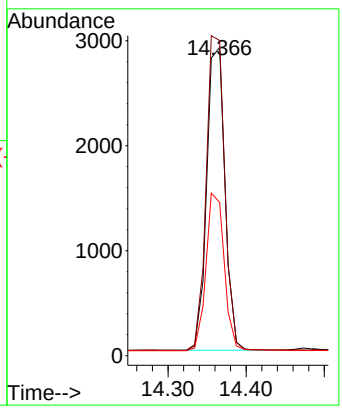


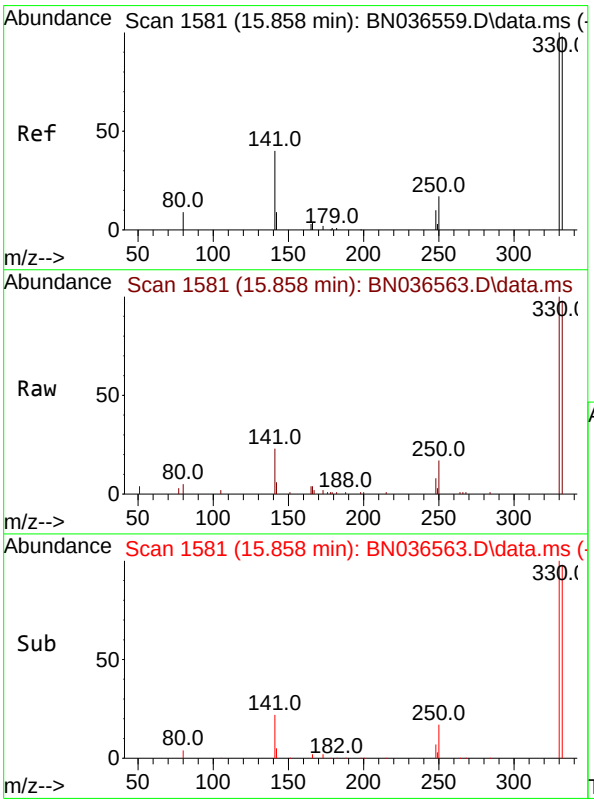
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:164 Resp: 4664

Ion	Ratio	Lower	Upper
164	100		
162	102.2	84.2	126.2
160	49.7	42.2	63.2

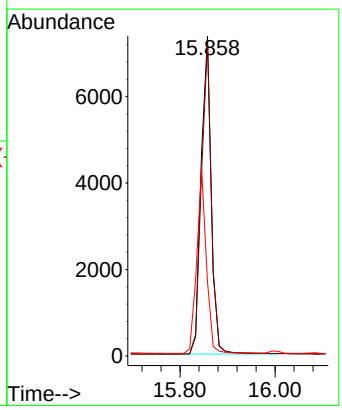


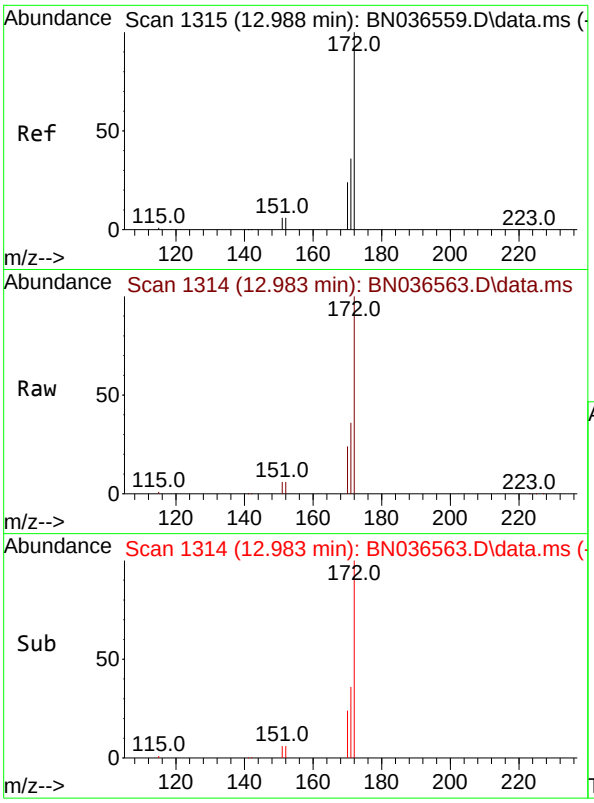


#14
2,4,6-Tribromophenol
Concen: 5.181 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion:330 Resp: 10964

Ion	Ratio	Lower	Upper
330	100		
332	95.9	75.2	112.8
141	54.7	43.4	65.2



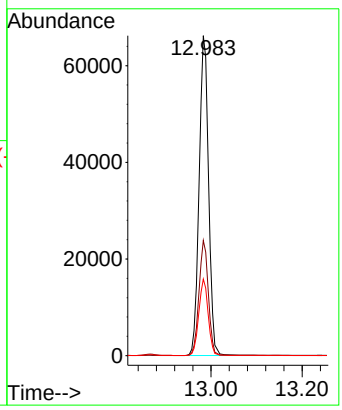


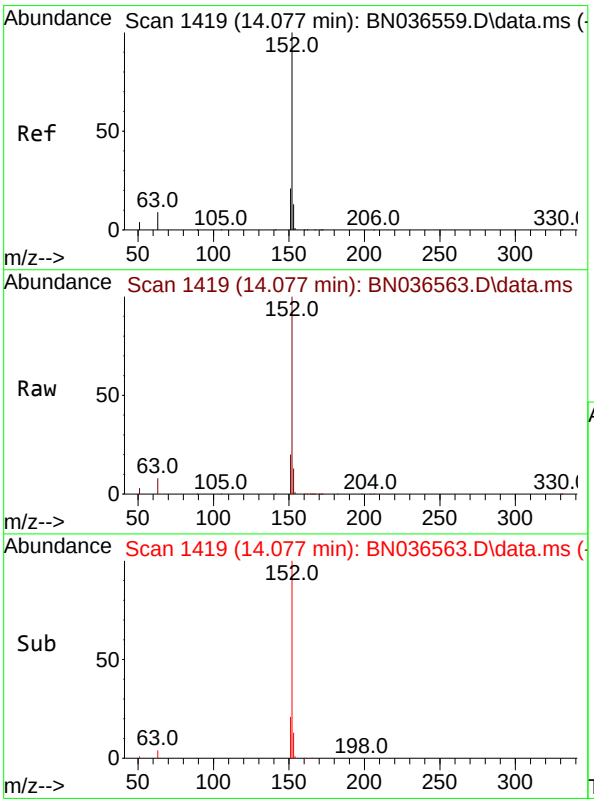
#15
2-Fluorobiphenyl
Concen: 5.199 ng
RT: 12.983 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:172 Resp: 141052

Ion	Ratio	Lower	Upper
172	100		
171	36.0	29.5	44.3
170	24.0	20.2	30.4

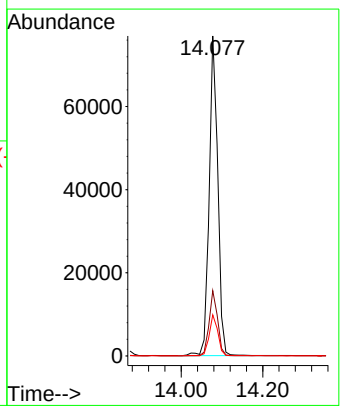


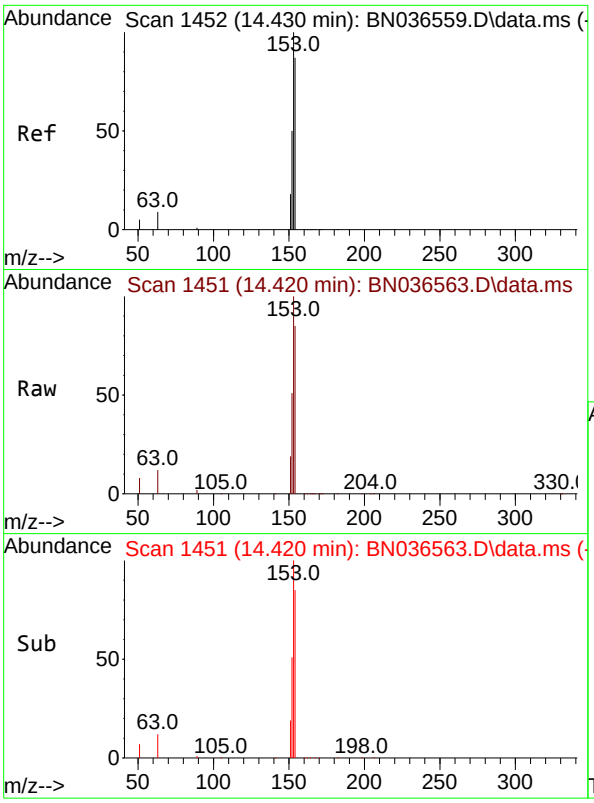


#16
Acenaphthylene
Concen: 5.125 ng
RT: 14.077 min Scan# 1419
Delta R.T. -0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion:152 Resp: 112792

Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.2	24.4
153	12.8	10.6	15.8



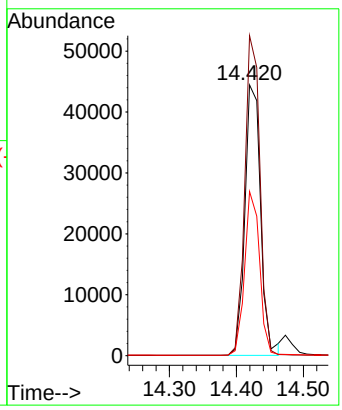


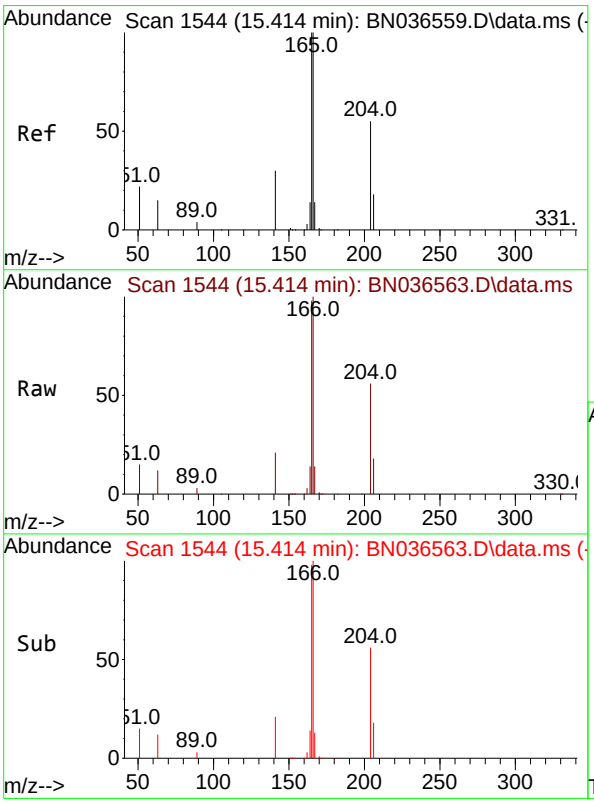
#17
Acenaphthene
Concen: 5.028 ng
RT: 14.420 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:154 Resp: 72446

Ion	Ratio	Lower	Upper
154	100		
153	114.1	94.1	141.1
152	57.7	49.8	74.6

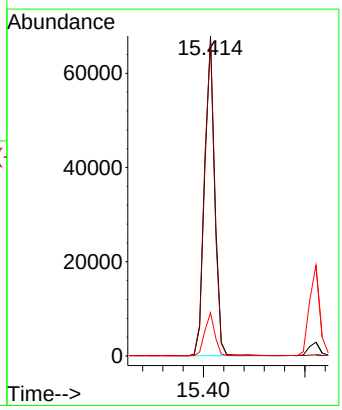


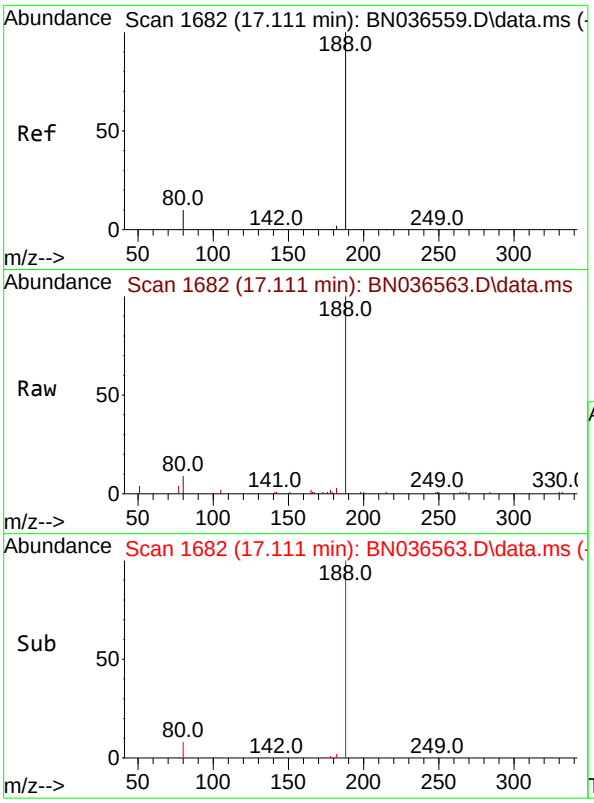


#18
Fluorene
Concen: 4.937 ng
RT: 15.414 min Scan# 1544
Delta R.T. -0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion:166 Resp: 96215

Ion	Ratio	Lower	Upper
166	100		
165	96.5	79.8	119.8
167	13.0	10.6	15.8



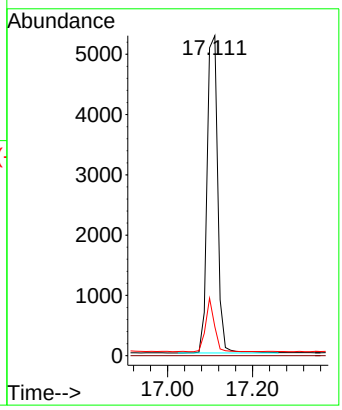


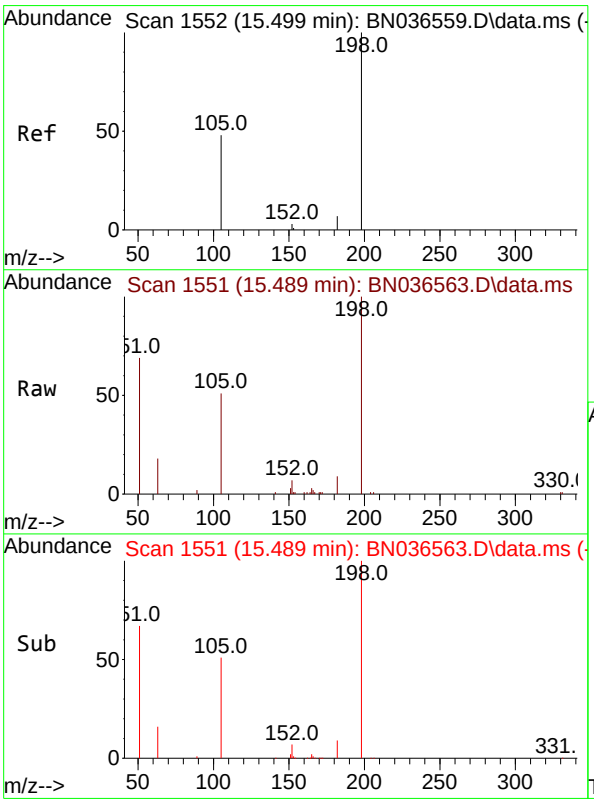
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:188 Resp: 9061

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.1	8.8	13.2

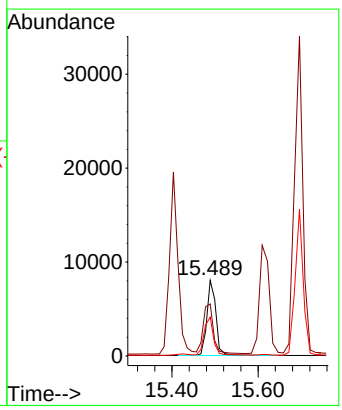


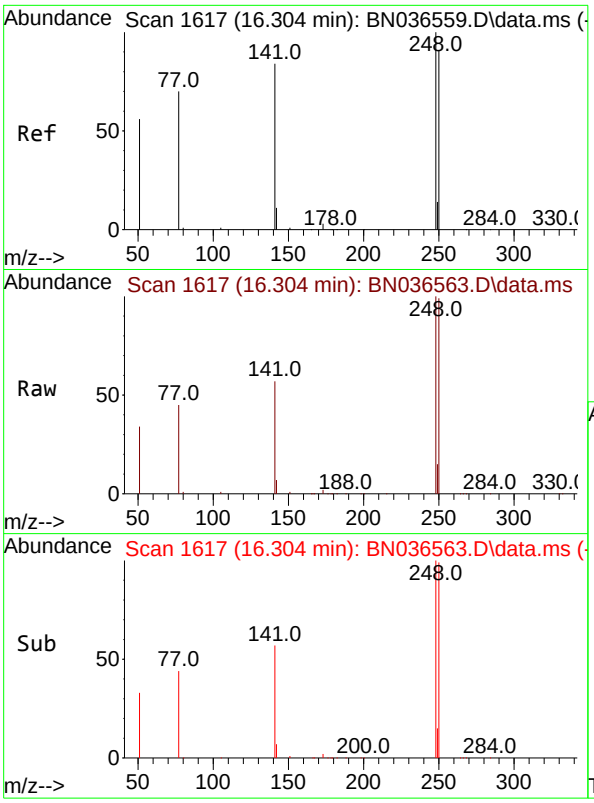


#20
4,6-Dinitro-2-methylphenol
Concen: 4.968 ng
RT: 15.489 min Scan# 1551
Delta R.T. -0.010 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion:198 Resp: 12627

Ion	Ratio	Lower	Upper
198	100		
51	68.9	107.9	161.9#
105	51.3	56.2	84.2#



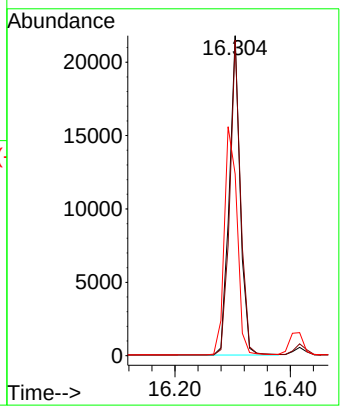


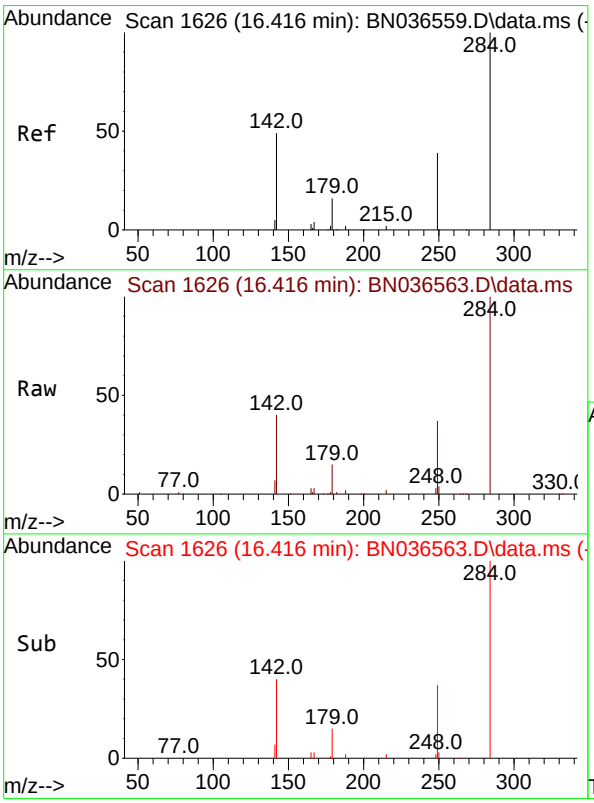
#21
4-Bromophenyl-phenylether
Concen: 5.048 ng
RT: 16.304 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:248 Resp: 28657

Ion	Ratio	Lower	Upper
248	100		
250	98.6	73.0	109.6
141	56.7	68.6	103.0#

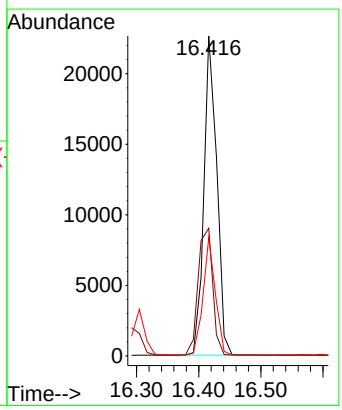


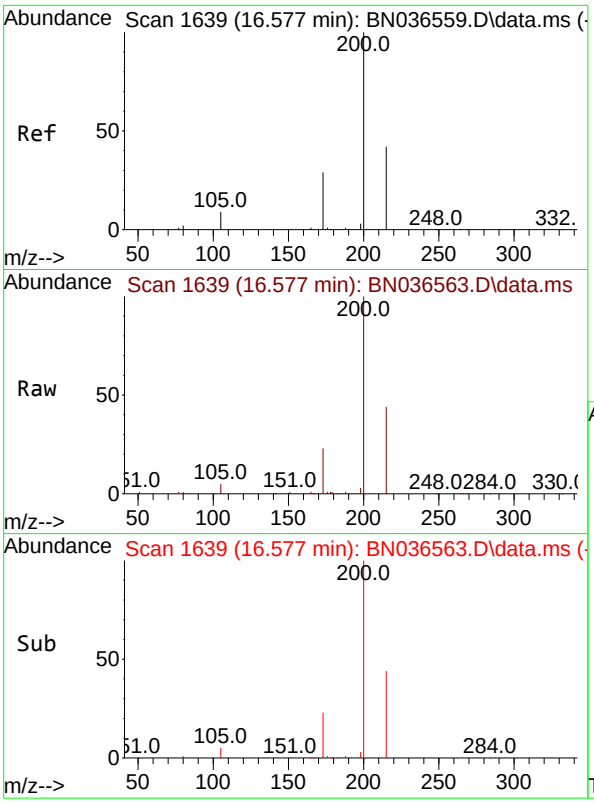


#22
Hexachlorobenzene
Concen: 4.770 ng
RT: 16.416 min Scan# 1626
Delta R.T. -0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion:284 Resp: 32686

Ion	Ratio	Lower	Upper
284	100		
142	45.1	37.0	55.4
249	35.1	28.1	42.1



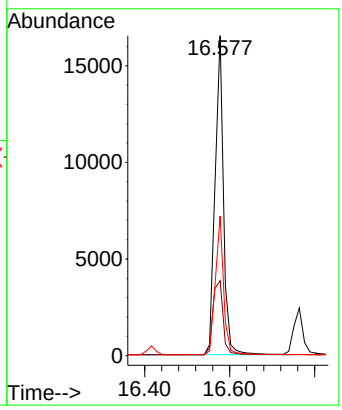


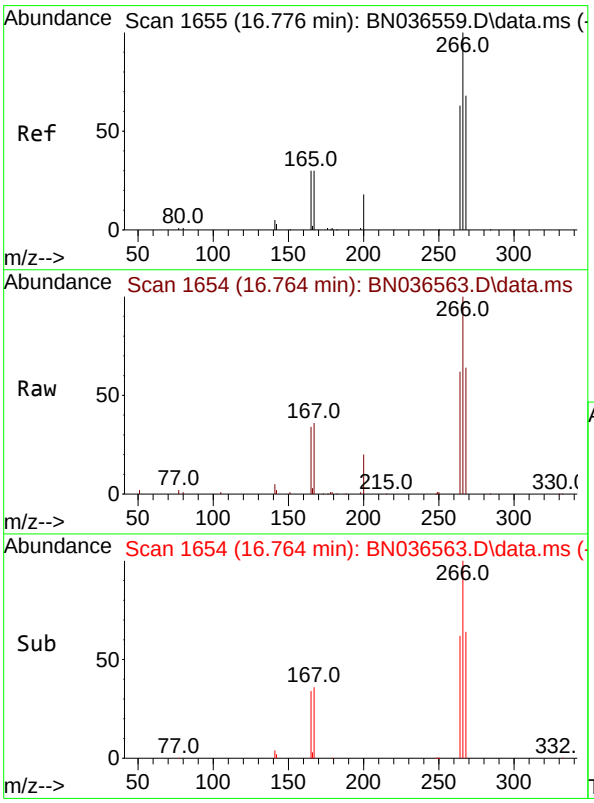
#23
Atrazine
Concen: 4.988 ng
RT: 16.577 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:200 Resp: 22705

Ion	Ratio	Lower	Upper
200	100		
173	23.4	27.3	40.9#
215	43.7	36.8	55.2

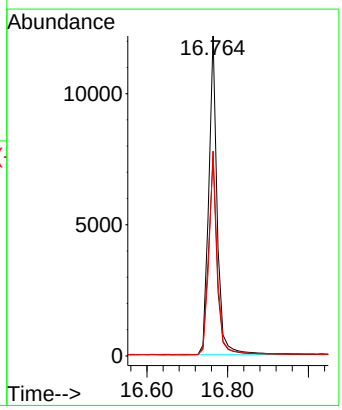


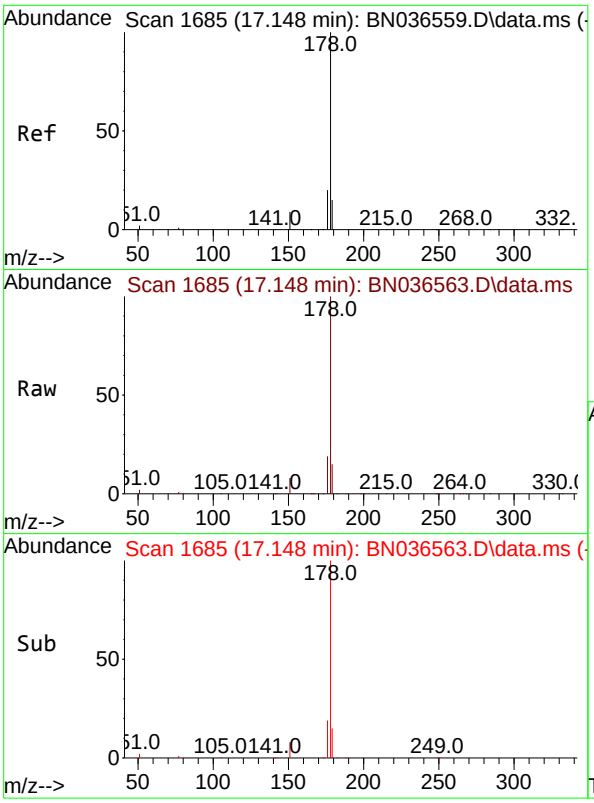


#24
Pentachlorophenol
Concen: 5.634 ng
RT: 16.764 min Scan# 1654
Delta R.T. -0.012 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion:266 Resp: 17612

Ion	Ratio	Lower	Upper
266	100		
264	63.1	49.6	74.4
268	63.7	50.9	76.3



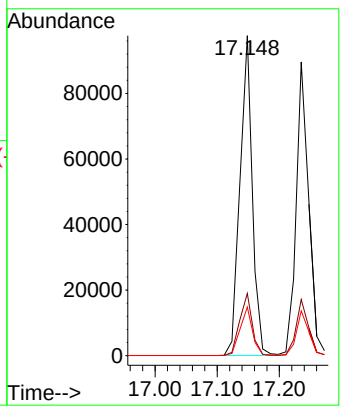


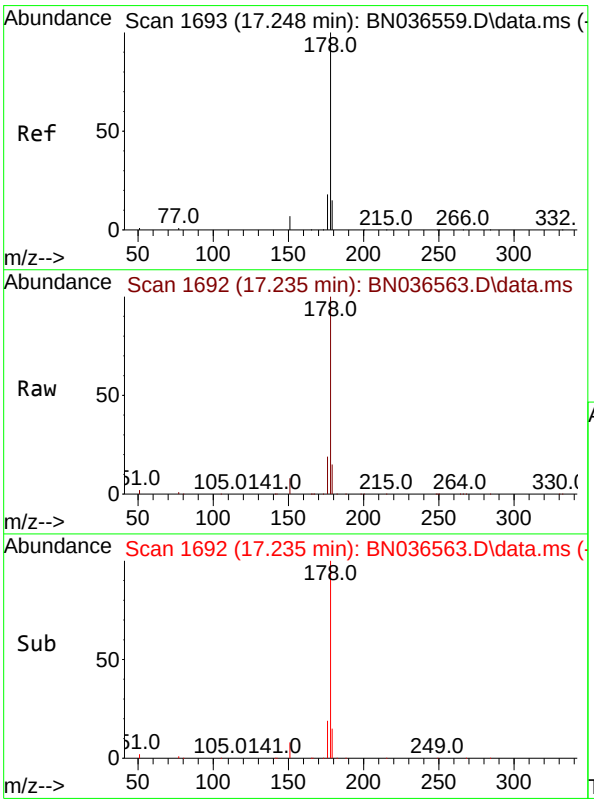
#25
Phenanthrene
Concen: 4.979 ng
RT: 17.148 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:178 Resp: 135347

Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.9	23.9
179	15.2	12.2	18.4

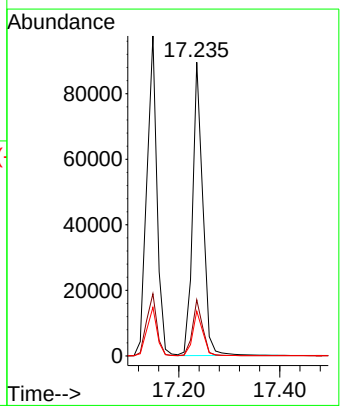


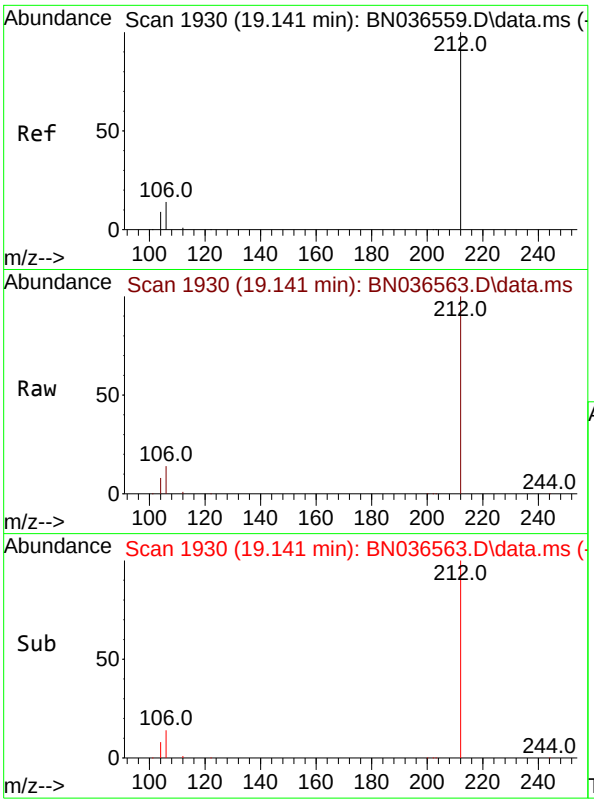


#26
Anthracene
Concen: 5.135 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.012 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion:178 Resp: 125954

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.4	23.2
179	15.2	12.6	18.8



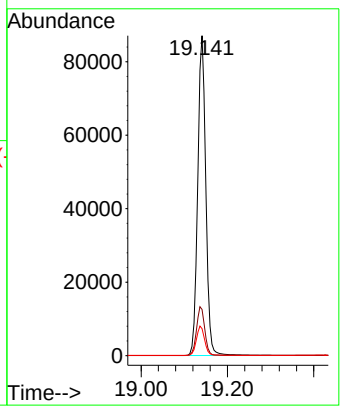


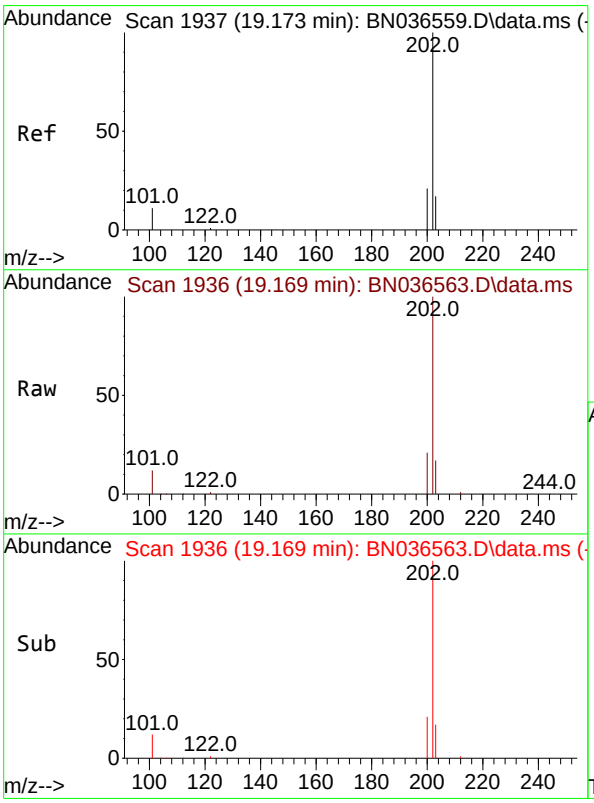
#27
Fluoranthene-d10
Concen: 4.879 ng
RT: 19.141 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:212 Resp: 113317

Ion	Ratio	Lower	Upper
212	100		
106	15.5	11.8	17.6
104	9.2	7.3	10.9

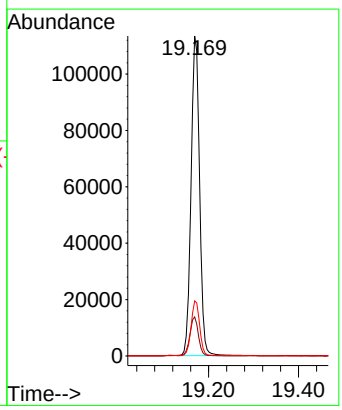


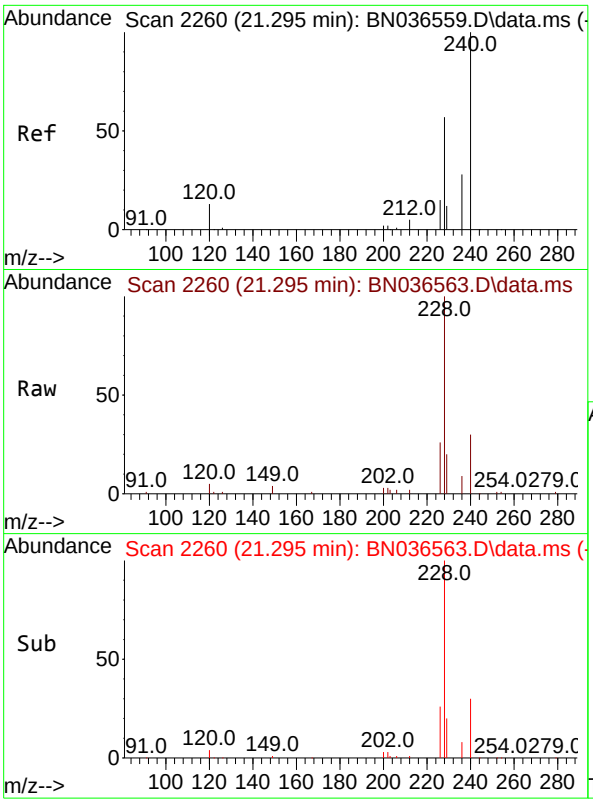


#28
Fluoranthene
Concen: 4.883 ng
RT: 19.169 min Scan# 1936
Delta R.T. -0.005 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion:202 Resp: 149107

Ion	Ratio	Lower	Upper
202	100		
101	12.3	9.4	14.0
203	17.3	13.5	20.3



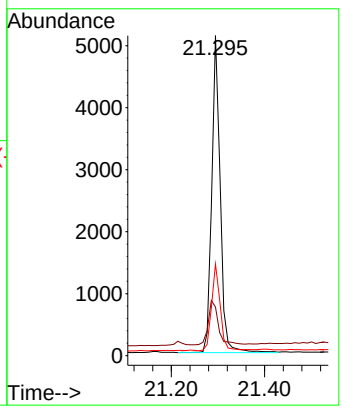


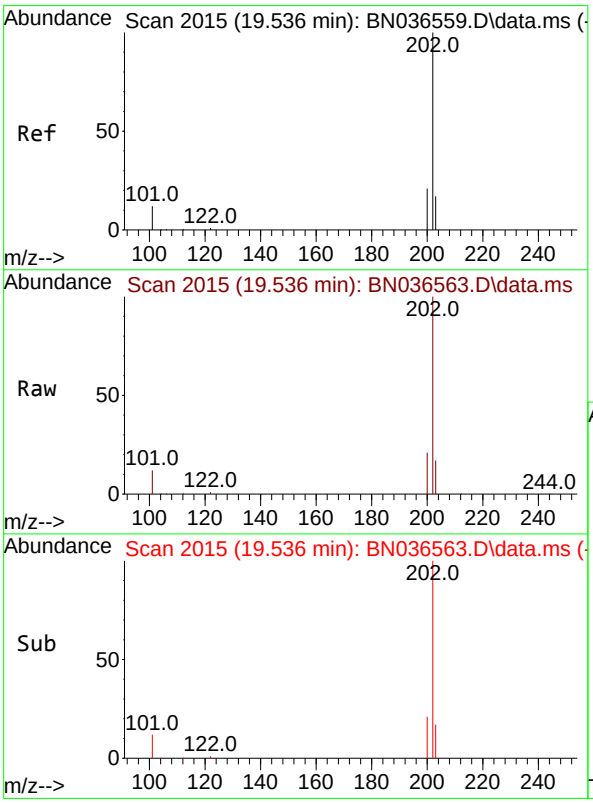
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:240 Resp: 6472

Ion	Ratio	Lower	Upper
240	100		
120	15.2	14.6	22.0
236	28.7	24.1	36.1

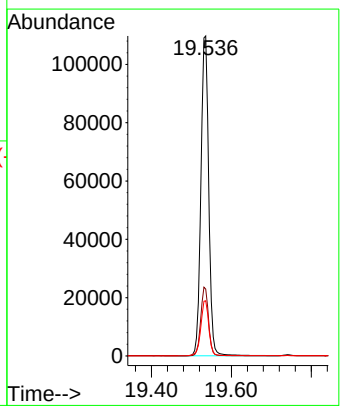


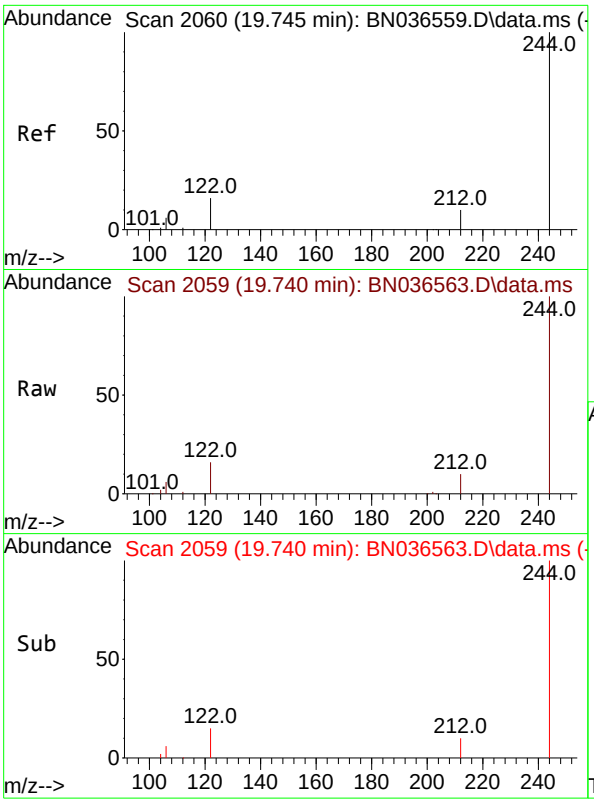


#30
Pyrene
Concen: 4.695 ng
RT: 19.536 min Scan# 2015
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion:202 Resp: 148584

Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.1	25.7
203	17.7	14.1	21.1



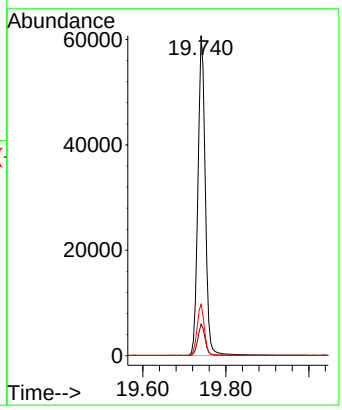


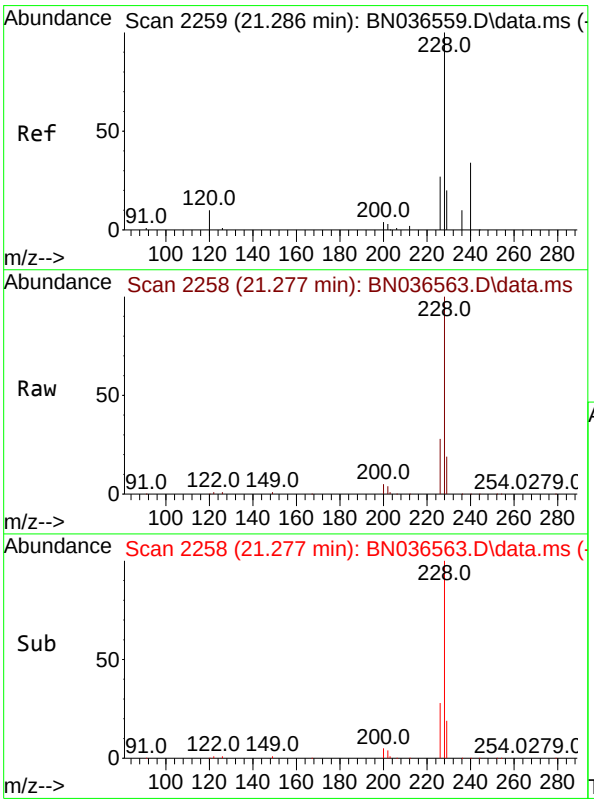
#31
Terphenyl-d14
Concen: 4.832 ng
RT: 19.740 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:244 Resp: 74923

Ion	Ratio	Lower	Upper
244	100		
212	9.9	9.6	14.4
122	16.1	13.9	20.9

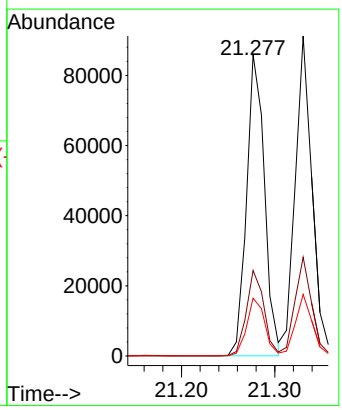


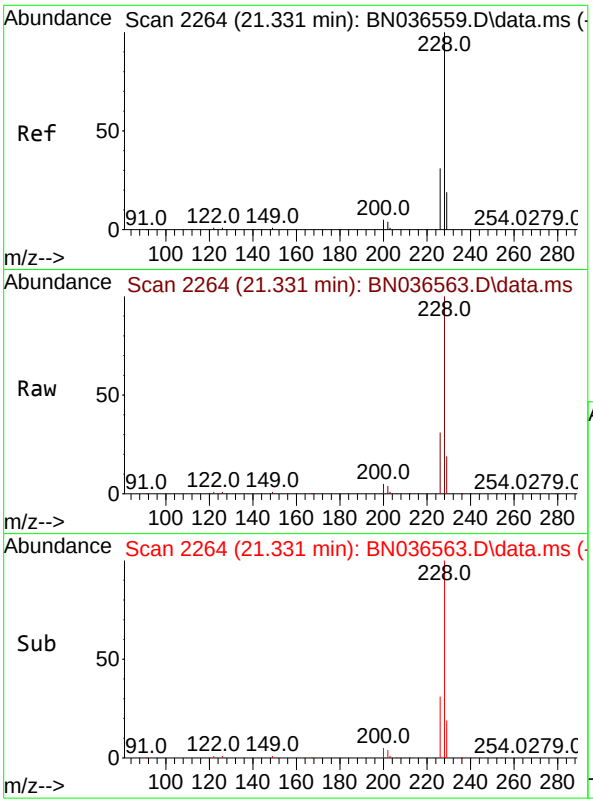


#32
Benzo(a)anthracene
Concen: 5.087 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.009 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion:228 Resp: 114481

Ion	Ratio	Lower	Upper
228	100		
226	28.3	22.5	33.7
229	19.2	16.6	25.0



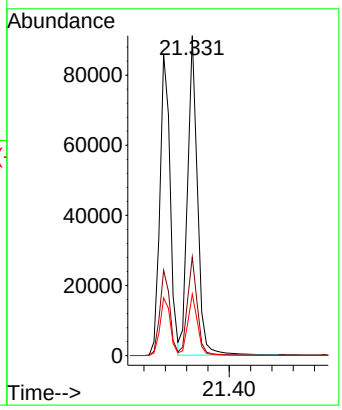


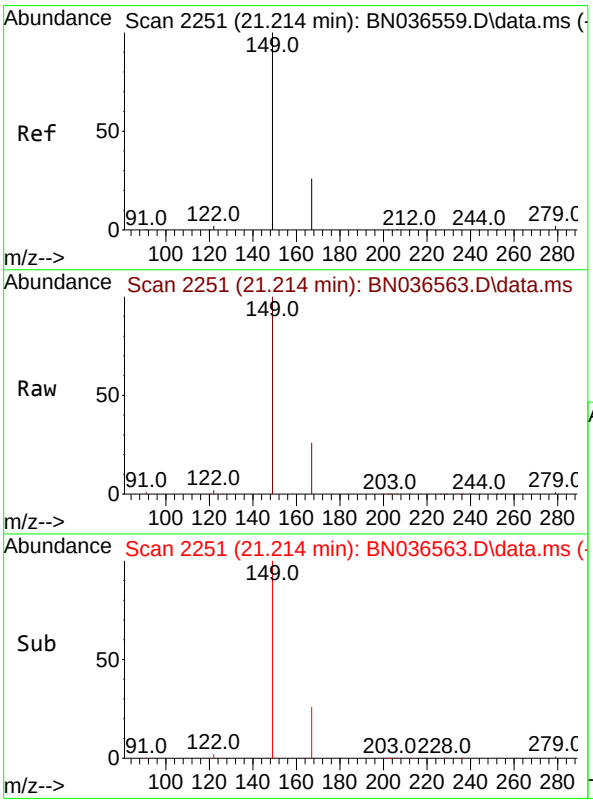
#33
Chrysene
Concen: 4.764 ng
RT: 21.331 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:228 Resp: 117149

Ion	Ratio	Lower	Upper
228	100		
226	30.9	25.3	37.9
229	19.3	15.8	23.8

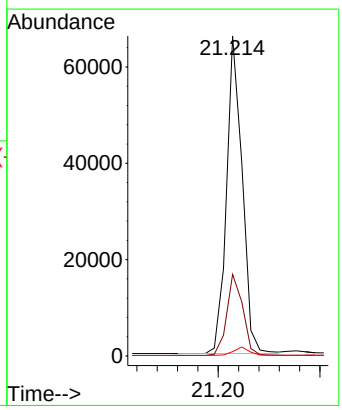


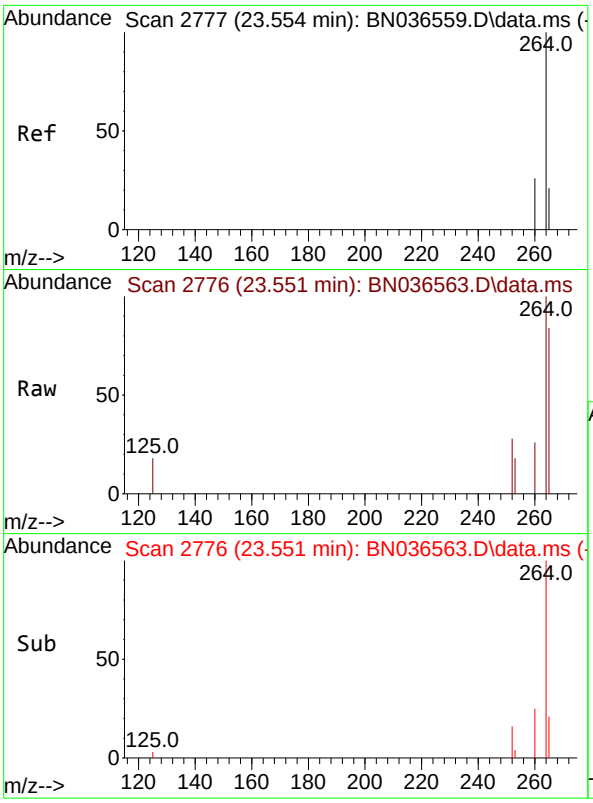


#34
Bis(2-ethylhexyl)phthalate
Concen: 4.390 ng
RT: 21.214 min Scan# 2251
Delta R.T. -0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion:149 Resp: 70345

Ion	Ratio	Lower	Upper
149	100		
167	26.2	20.7	31.1
279	2.6	3.6	5.4#



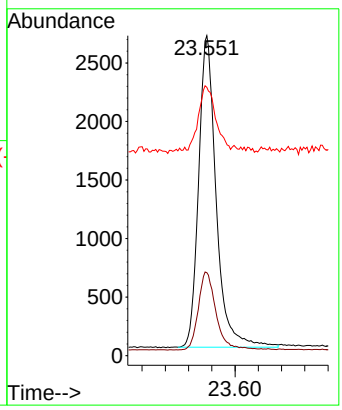


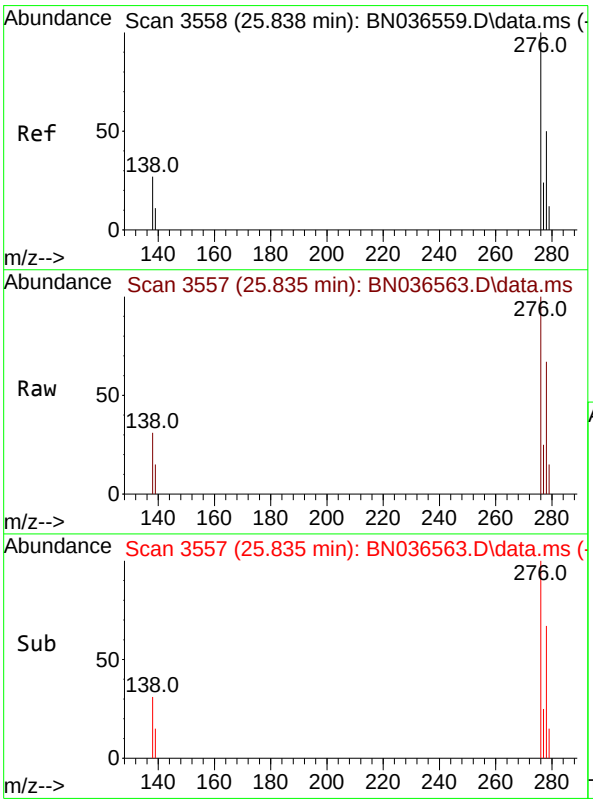
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.551 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:264 Resp: 5580

Ion	Ratio	Lower	Upper
264	100		
260	25.9	22.6	33.8
265	83.8	88.1	132.1#

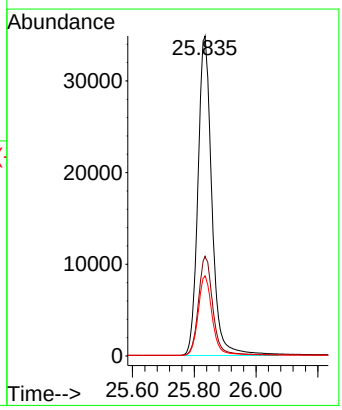


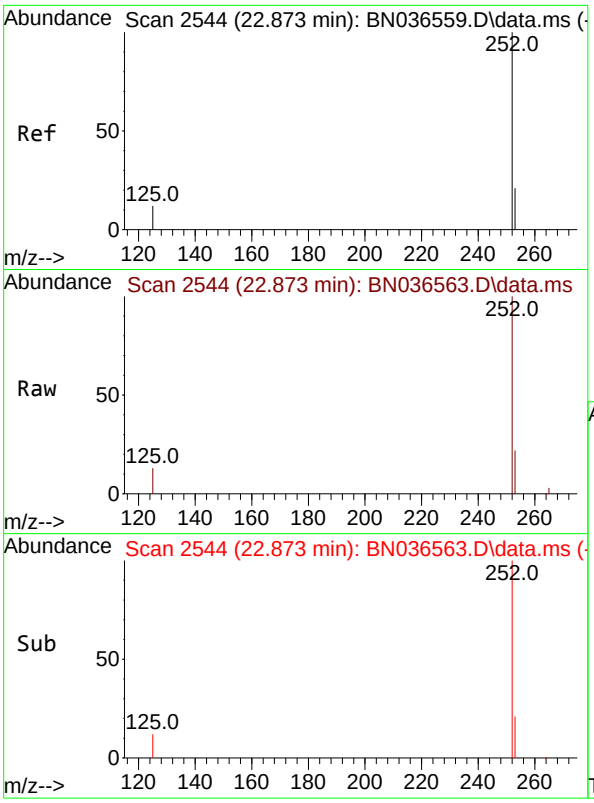


#36
Indeno(1,2,3-cd)pyrene
Concen: 5.440 ng
RT: 25.835 min Scan# 3557
Delta R.T. -0.003 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion:276 Resp: 109561

Ion	Ratio	Lower	Upper
276	100		
138	31.6	23.4	35.2
277	24.9	20.0	30.0



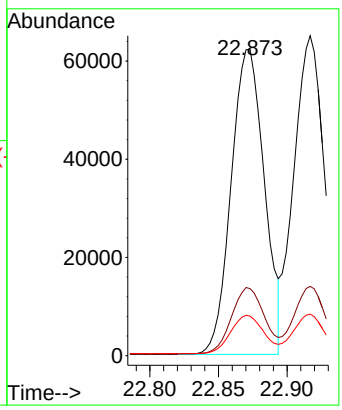


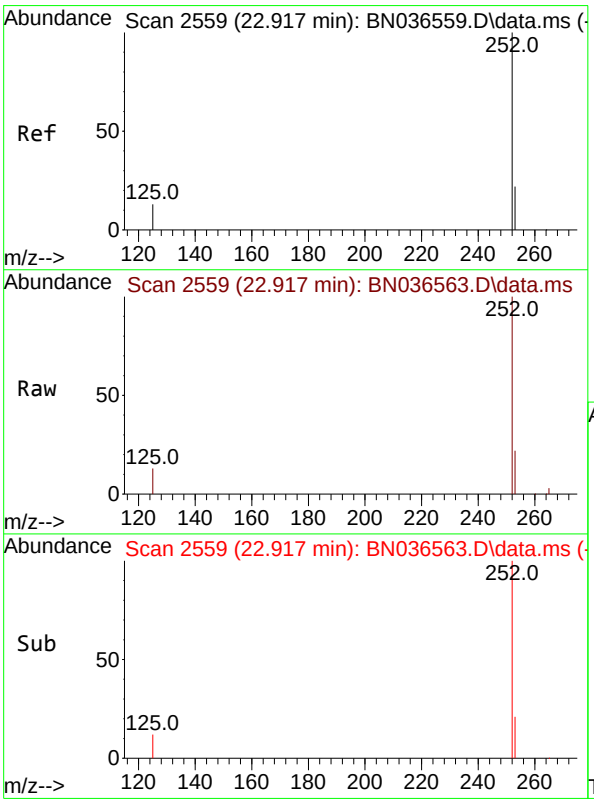
#37
Benzo(b)fluoranthene
Concen: 5.146 ng
RT: 22.873 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:252 Resp: 104498

Ion	Ratio	Lower	Upper
252	100		
253	21.9	23.9	35.9#
125	12.9	17.4	26.2#

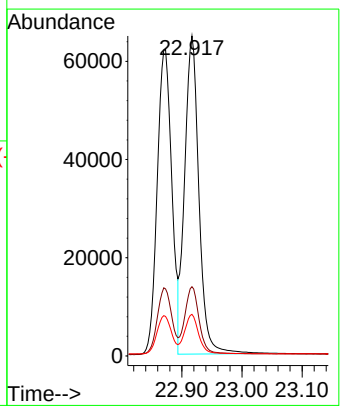


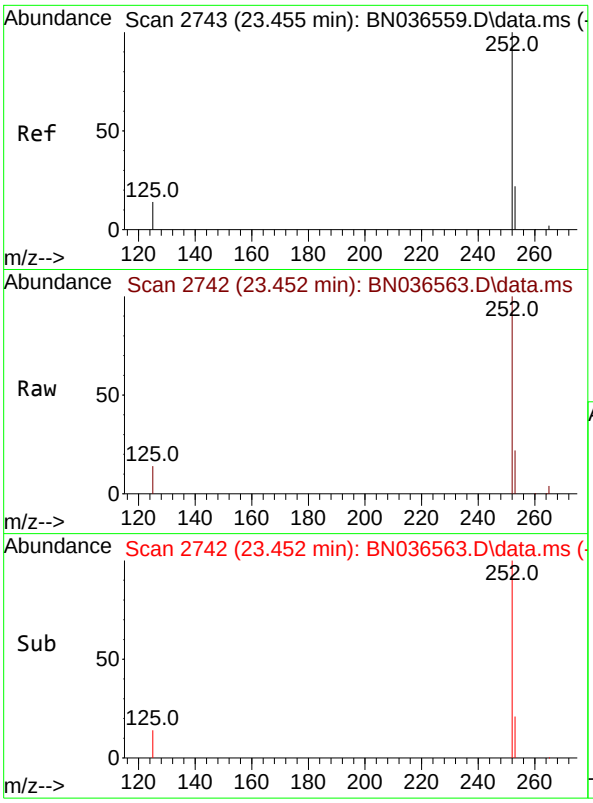


#38
Benzo(k)fluoranthene
Concen: 5.022 ng
RT: 22.917 min Scan# 2559
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion:252 Resp: 106995

Ion	Ratio	Lower	Upper
252	100		
253	21.6	24.6	36.8#
125	13.0	17.8	26.8#



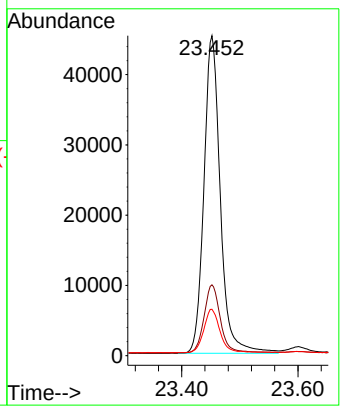


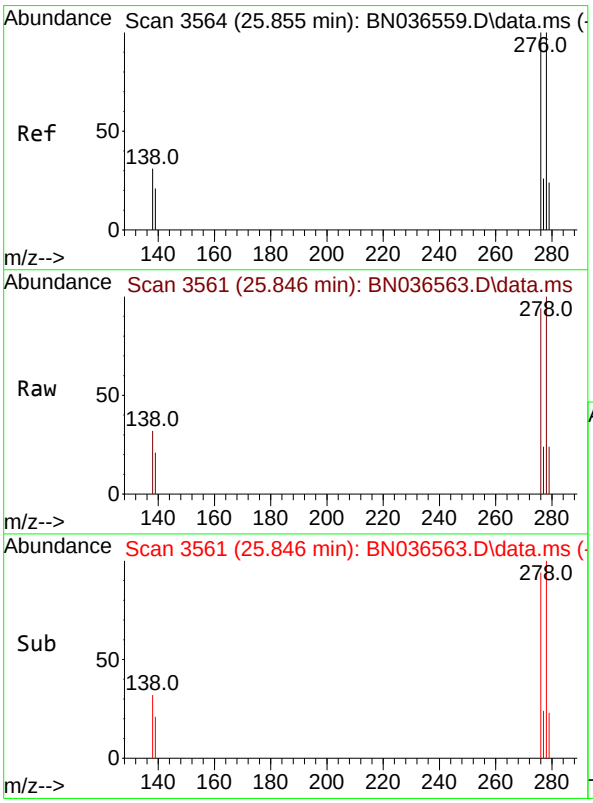
#39
Benzo(a)pyrene
Concen: 5.170 ng
RT: 23.452 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:252 Resp: 88413

Ion	Ratio	Lower	Upper
252	100		
253	22.2	27.8	41.8#
125	14.5	22.7	34.1#

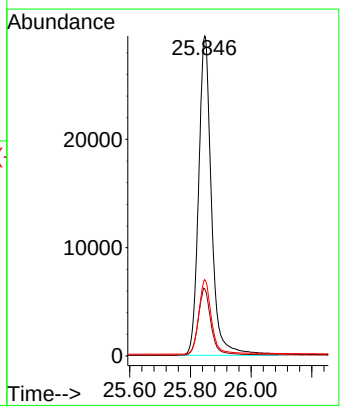


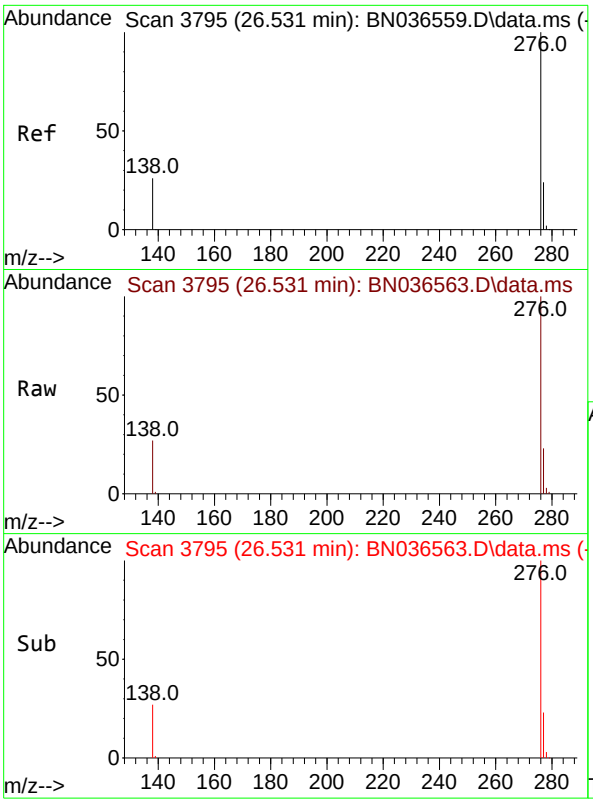


#40
Dibenzo(a,h)anthracene
Concen: 5.568 ng
RT: 25.846 min Scan# 3561
Delta R.T. -0.009 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion:278 Resp: 87308

Ion	Ratio	Lower	Upper
278	100		
139	21.0	20.8	31.2
279	23.9	28.8	43.2#



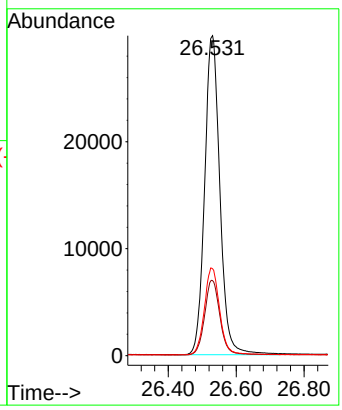


#41
Benzo(g,h,i)perylene
Concen: 5.189 ng
RT: 26.531 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:276 Resp: 93067

Ion	Ratio	Lower	Upper
276	100		
277	23.4	22.2	33.4
138	27.1	24.1	36.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036564.D
Acq On : 10 Mar 2025 16:38
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Quant Time: Mar 10 17:10:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

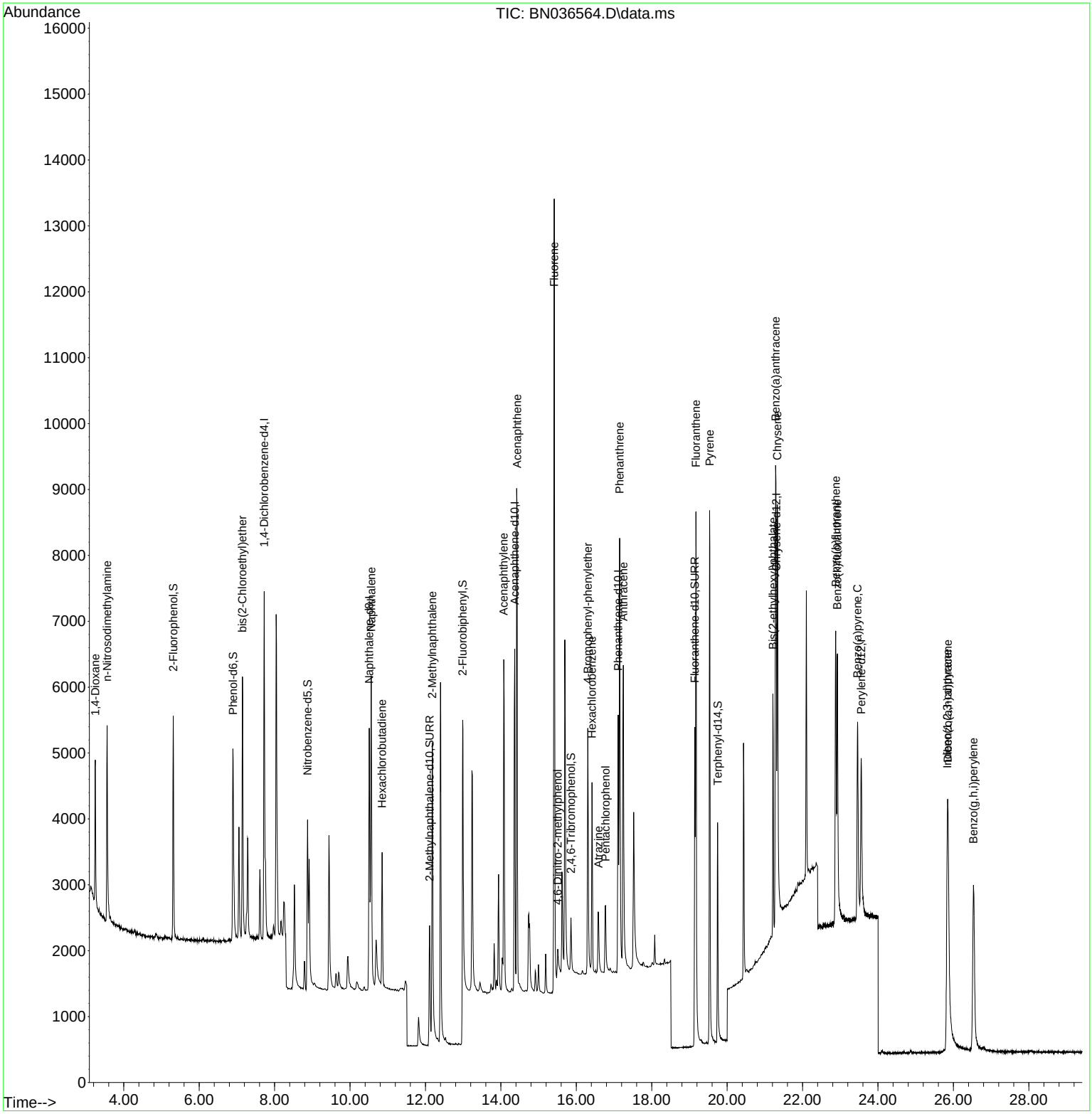
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.724	152	2488	0.400	ng		0.00
7) Naphthalene-d8	10.509	136	5634	0.400	ng		0.00
13) Acenaphthene-d10	14.366	164	3085	0.400	ng		0.00
19) Phenanthrene-d10	17.111	188	5778	0.400	ng		0.00
29) Chrysene-d12	21.304	240	4219	0.400	ng		0.00
35) Perylene-d12	23.554	264	3835	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.312	112	2418	0.417	ng		0.00
5) Phenol-d6	6.901	99	2744	0.383	ng		0.00
8) Nitrobenzene-d5	8.875	82	2356	0.384	ng		0.00
11) 2-Methylnaphthalene-d10	12.111	152	3345	0.399	ng		0.00
14) 2,4,6-Tribromophenol	15.858	330	511	0.365	ng		0.00
15) 2-Fluorobiphenyl	12.988	172	7753	0.432	ng		0.00
27) Fluoranthene-d10	19.141	212	6152	0.415	ng		0.00
31) Terphenyl-d14	19.750	244	3880	0.384	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.247	88	1297	0.470	ng		97
3) n-Nitrosodimethylamine	3.557	42	2284	0.409	ng		96
6) bis(2-Chloroethyl)ether	7.147	93	2945	0.398	ng		100
9) Naphthalene	10.562	128	6710	0.405	ng		99
10) Hexachlorobutadiene	10.850	225	1694	0.434	ng	#	98
12) 2-Methylnaphthalene	12.182	142	4064	0.385	ng		99
16) Acenaphthylene	14.077	152	6059	0.416	ng		99
17) Acenaphthene	14.430	154	4035	0.423	ng		99
18) Fluorene	15.414	166	5226	0.405	ng		99
20) 4,6-Dinitro-2-methylph...	15.510	198	404	0.420	ng		94
21) 4-Bromophenyl-phenylether	16.304	248	1524	0.421	ng		96
22) Hexachlorobenzene	16.416	284	1987	0.455	ng		99
23) Atrazine	16.590	200	1165	0.401	ng		95
24) Pentachlorophenol	16.776	266	699	0.351	ng		95
25) Phenanthrene	17.148	178	7229	0.417	ng		99
26) Anthracene	17.248	178	6358	0.407	ng		99
28) Fluoranthene	19.174	202	8068	0.414	ng		100
30) Pyrene	19.536	202	8156	0.395	ng		100
32) Benzo(a)anthracene	21.286	228	5814	0.396	ng		100
33) Chrysene	21.331	228	6940	0.433	ng		98
34) Bis(2-ethylhexyl)phtha...	21.214	149	3594	0.344	ng		98
36) Indeno(1,2,3-cd)pyrene	25.841	276	6410	0.463	ng		98
37) Benzo(b)fluoranthene	22.879	252	5902	0.423	ng		99
38) Benzo(k)fluoranthene	22.923	252	6286	0.429	ng		98
39) Benzo(a)pyrene	23.458	252	5147	0.438	ng		99
40) Dibenzo(a,h)anthracene	25.855	278	4740	0.440	ng		97
41) Benzo(g,h,i)perylene	26.534	276	5877	0.477	ng		97

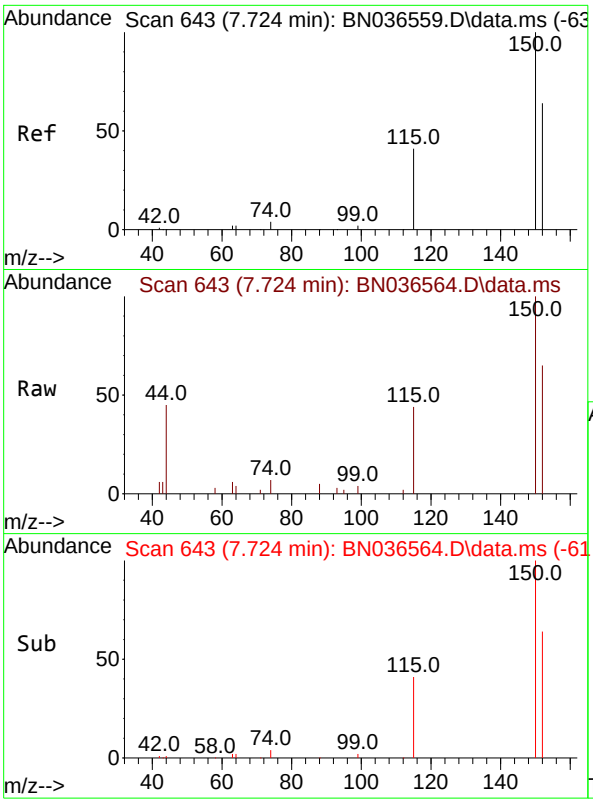
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036564.D
Acq On : 10 Mar 2025 16:38
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Quant Time: Mar 10 17:10:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



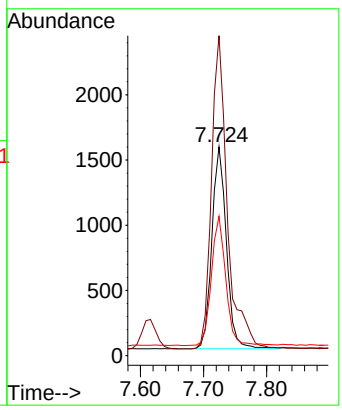


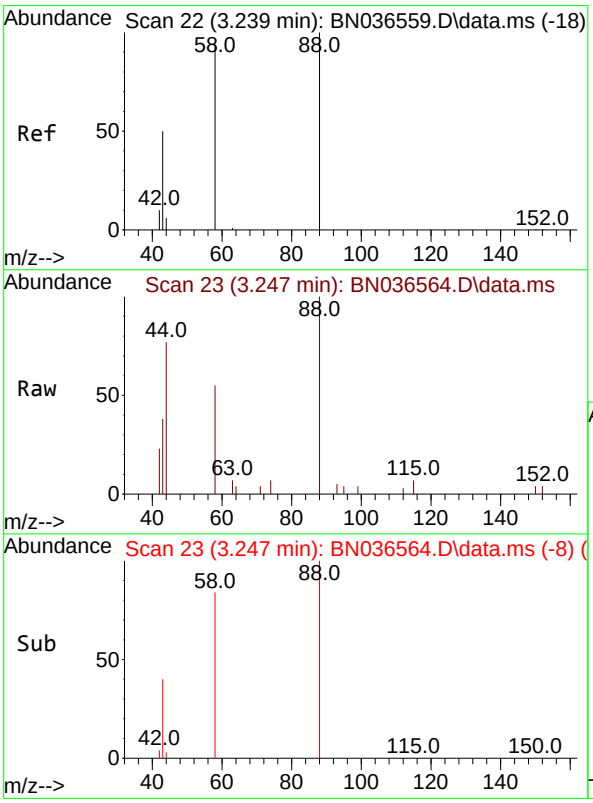
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Tgt Ion:152 Resp: 2488

Ion	Ratio	Lower	Upper
152	100		
150	153.3	123.7	185.5
115	66.7	54.3	81.5

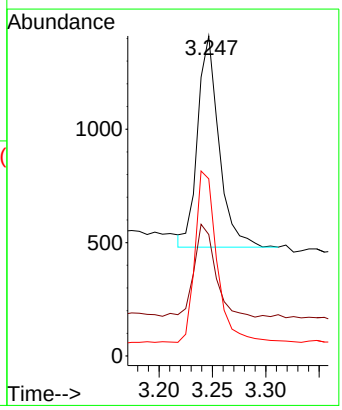


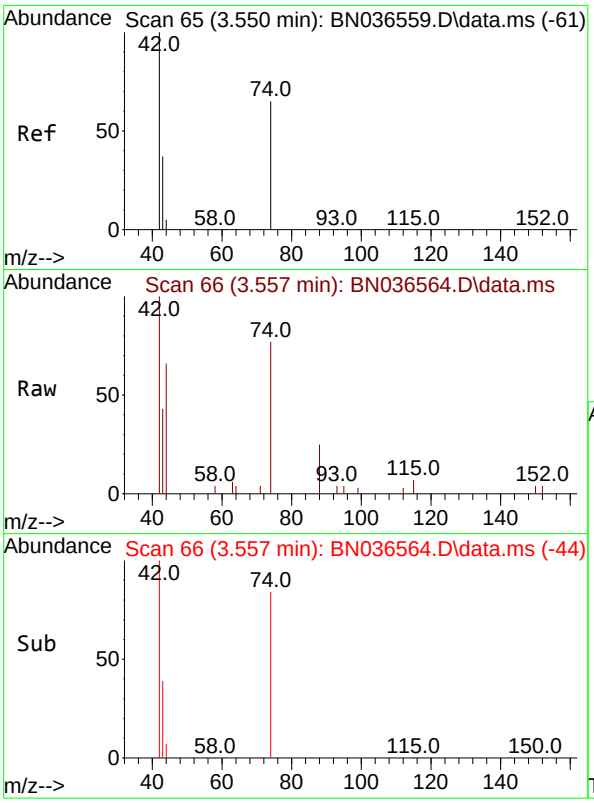


#2
1,4-Dioxane
Concen: 0.470 ng
RT: 3.247 min Scan# 23
Delta R.T. 0.008 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion: 88 Resp: 1297

Ion	Ratio	Lower	Upper
88	100		
43	44.1	37.8	56.8
58	82.4	67.4	101.2



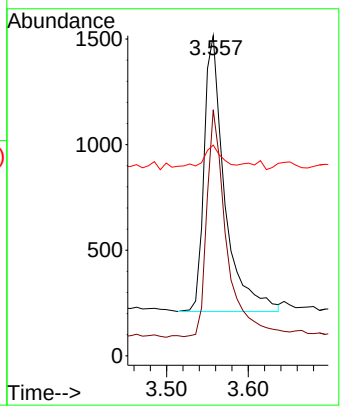


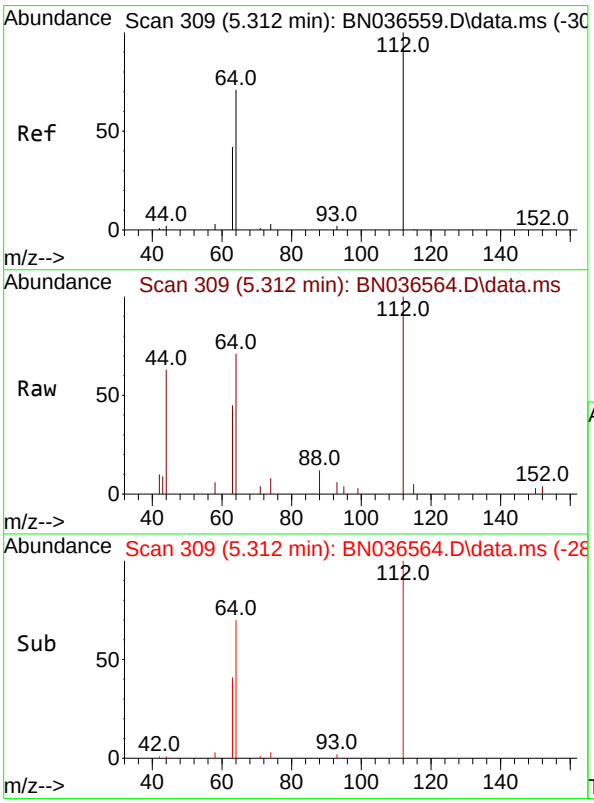
#3
n-Nitrosodimethylamine
Concen: 0.409 ng
RT: 3.557 min Scan# 6
Delta R.T. 0.007 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Tgt Ion: 42 Resp: 2284

Ion	Ratio	Lower	Upper
42	100		
74	79.2	60.6	90.8
44	8.2	6.3	9.5

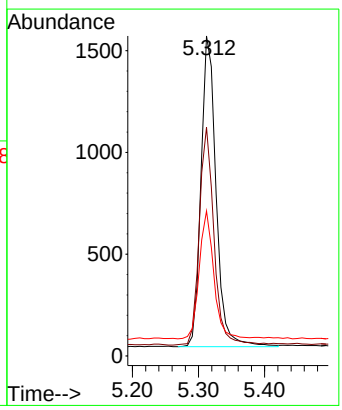


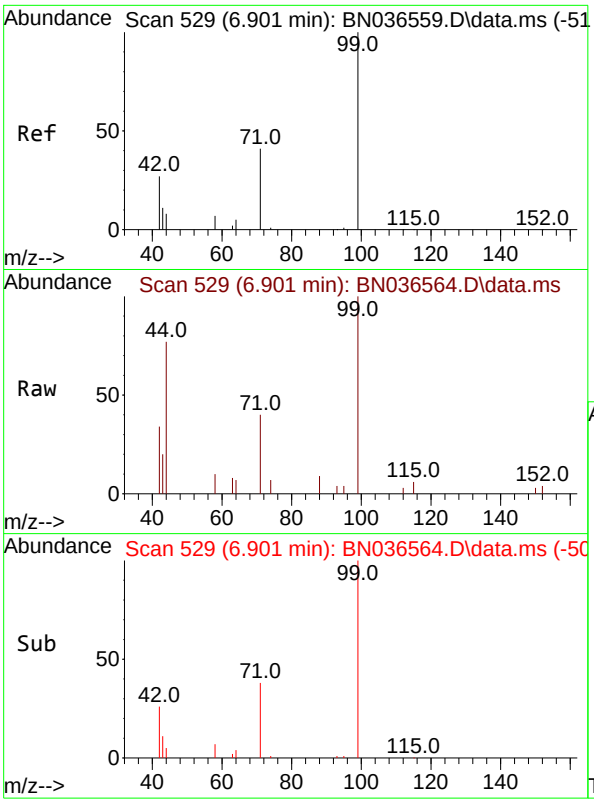


#4
2-Fluorophenol
Concen: 0.417 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion:112 Resp: 2418

Ion	Ratio	Lower	Upper
112	100		
64	68.2	53.1	79.7
63	39.8	31.8	47.8



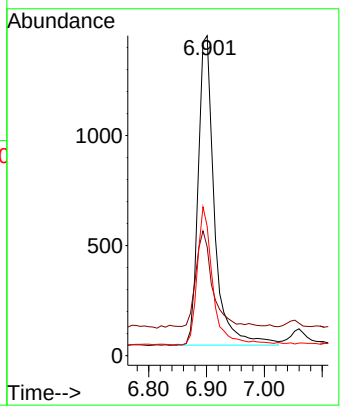


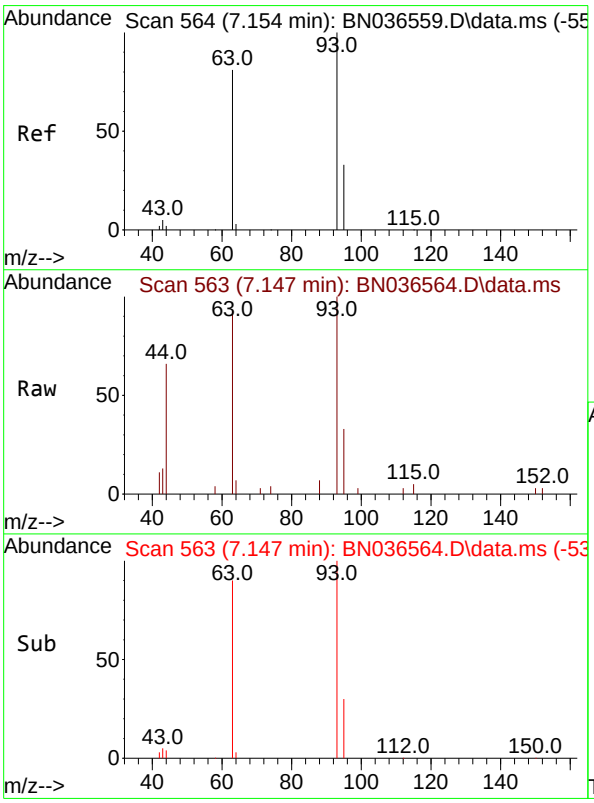
#5
Phenol-d6
Concen: 0.383 ng
RT: 6.901 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Tgt Ion: 99 Resp: 2744

Ion	Ratio	Lower	Upper
99	100		
42	32.1	26.5	39.7
71	42.9	34.1	51.1

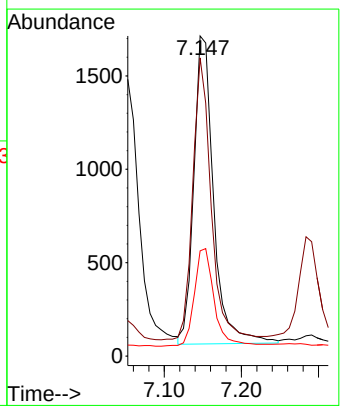


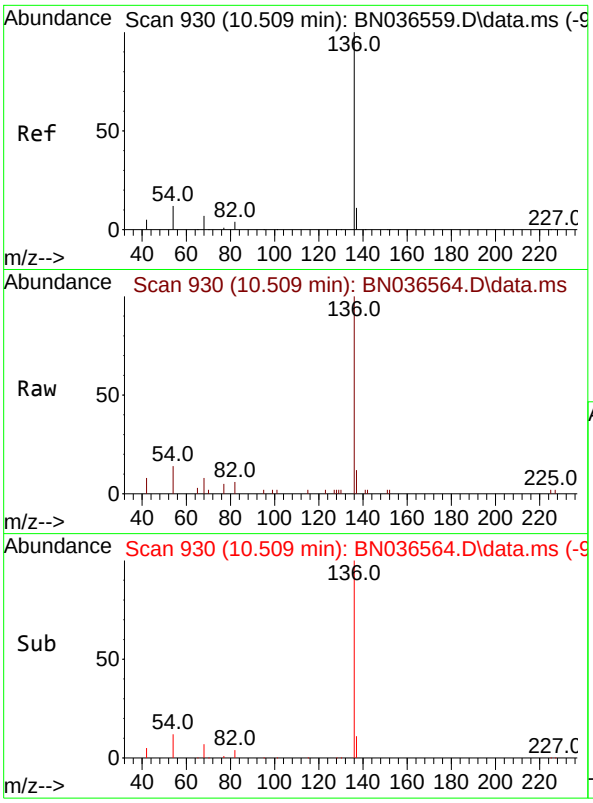


#6
bis(2-Chloroethyl)ether
Concen: 0.398 ng
RT: 7.147 min Scan# 563
Delta R.T. -0.007 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion: 93 Resp: 2945

Ion	Ratio	Lower	Upper
93	100		
63	85.1	67.7	101.5
95	31.7	25.6	38.4



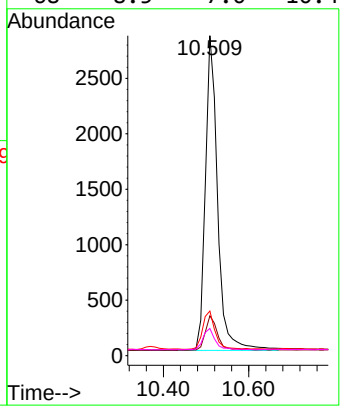


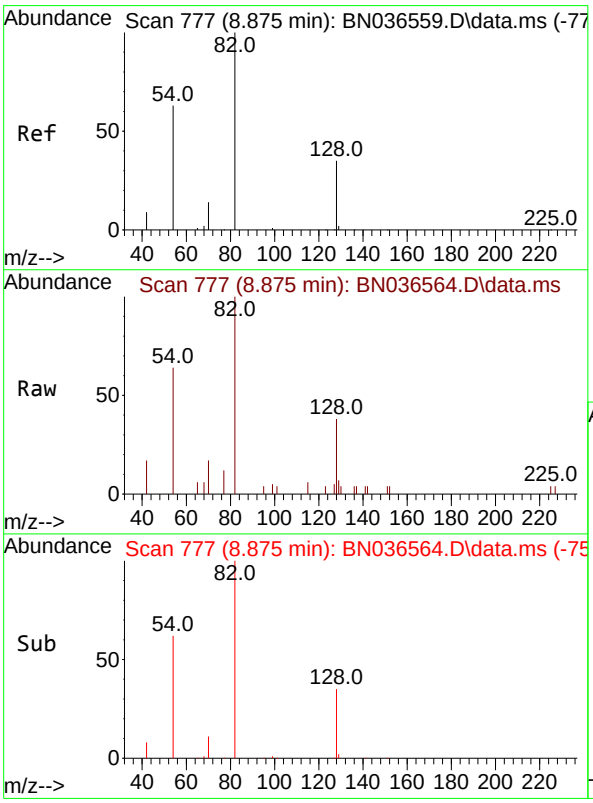
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Tgt Ion:136 Resp: 5634

Ion	Ratio	Lower	Upper
136	100		
137	12.4	10.3	15.5
54	13.9	11.5	17.3
68	8.5	7.0	10.4

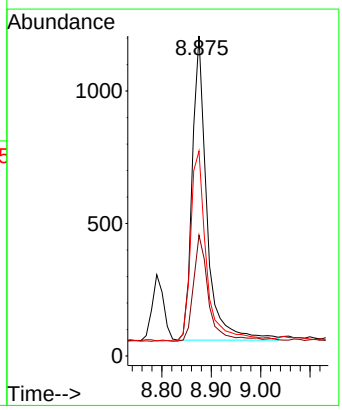


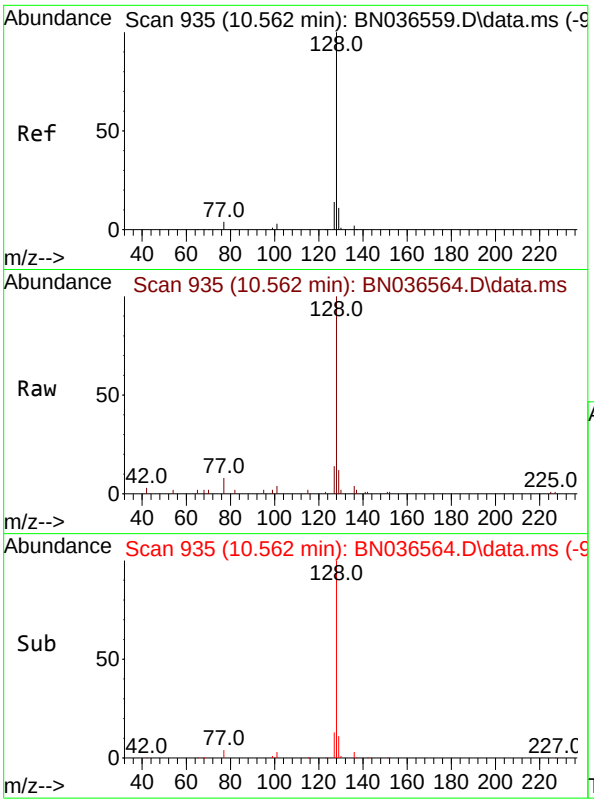


#8
Nitrobenzene-d5
Concen: 0.384 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion: 82 Resp: 2356

Ion	Ratio	Lower	Upper
82	100		
128	37.7	30.6	45.8
54	64.1	52.2	78.4



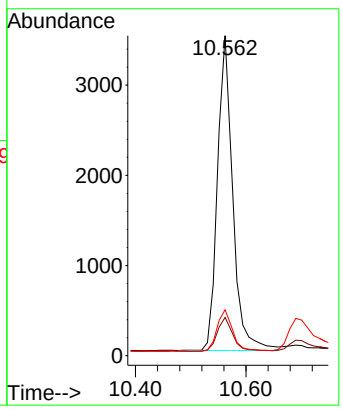


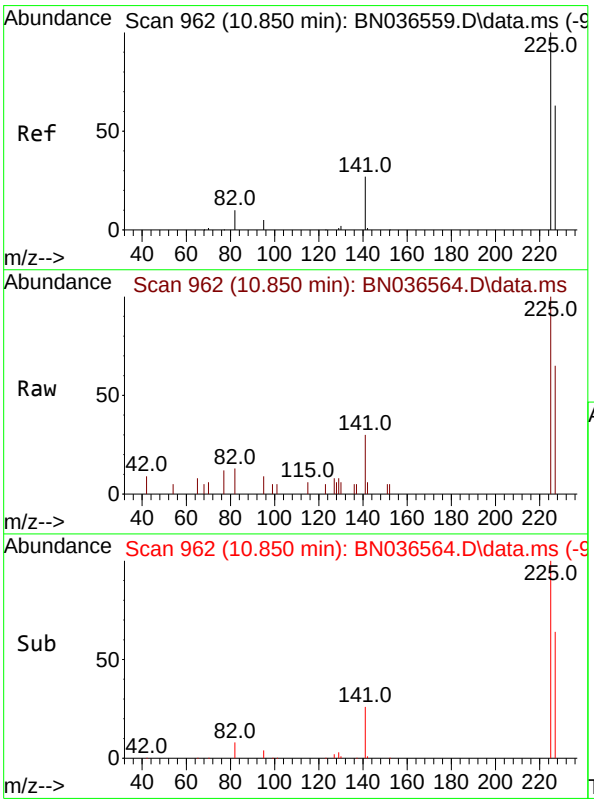
#9
Naphthalene
Concen: 0.405 ng
RT: 10.562 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Tgt Ion:128 Resp: 6710

Ion	Ratio	Lower	Upper
128	100		
129	11.9	9.8	14.6
127	14.3	11.8	17.8

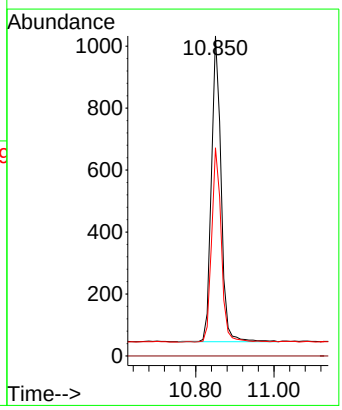


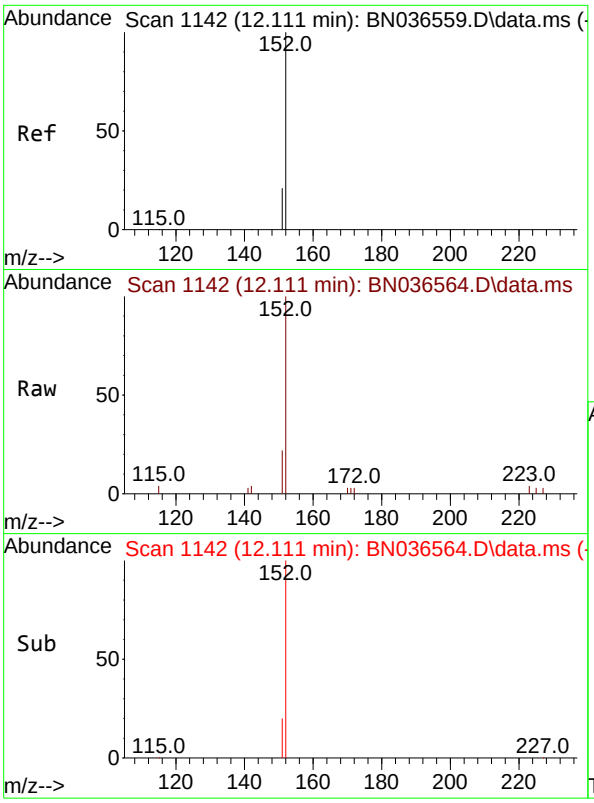


#10
Hexachlorobutadiene
Concen: 0.434 ng
RT: 10.850 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion:225 Resp: 1694

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.5	51.8	77.8



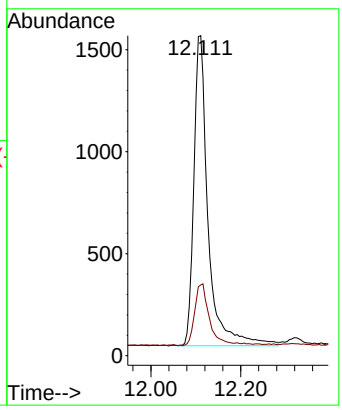


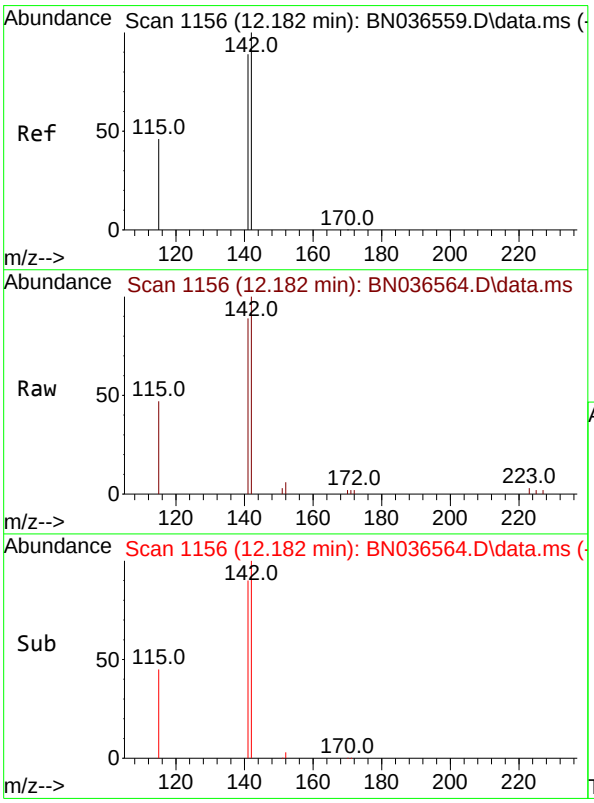
#11
2-Methylnaphthalene-d10
Concen: 0.399 ng
RT: 12.111 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Tgt Ion:152 Resp: 3345

Ion	Ratio	Lower	Upper
152	100		
151	20.2	17.0	25.6

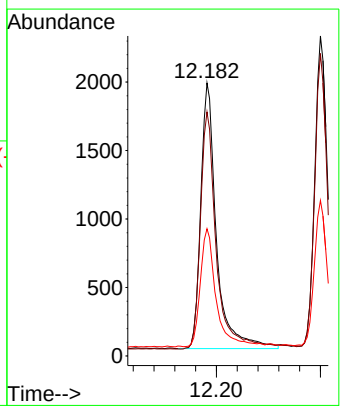


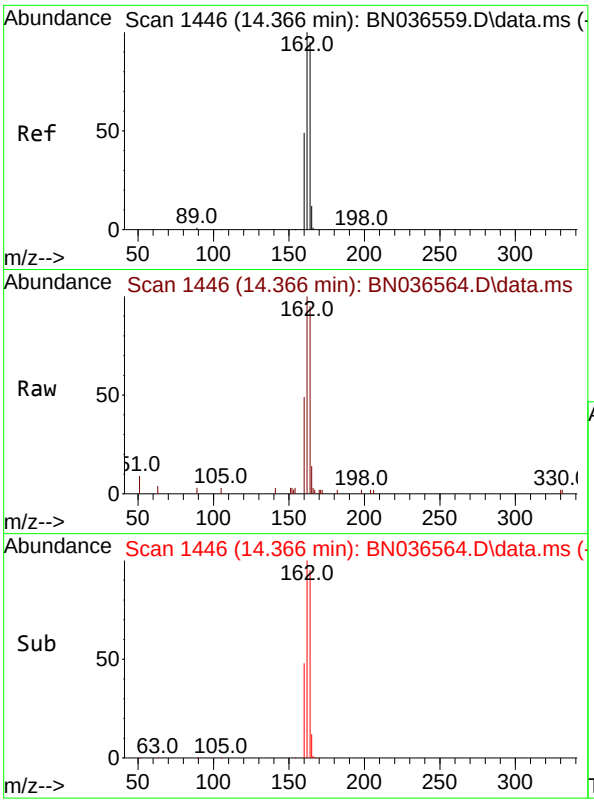


#12
2-Methylnaphthalene
Concen: 0.385 ng
RT: 12.182 min Scan# 1156
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion:142 Resp: 4064

Ion	Ratio	Lower	Upper
142	100		
141	89.4	71.7	107.5
115	46.6	38.3	57.5



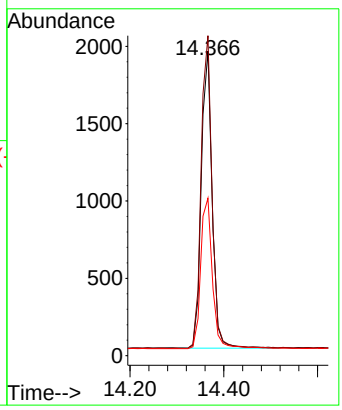


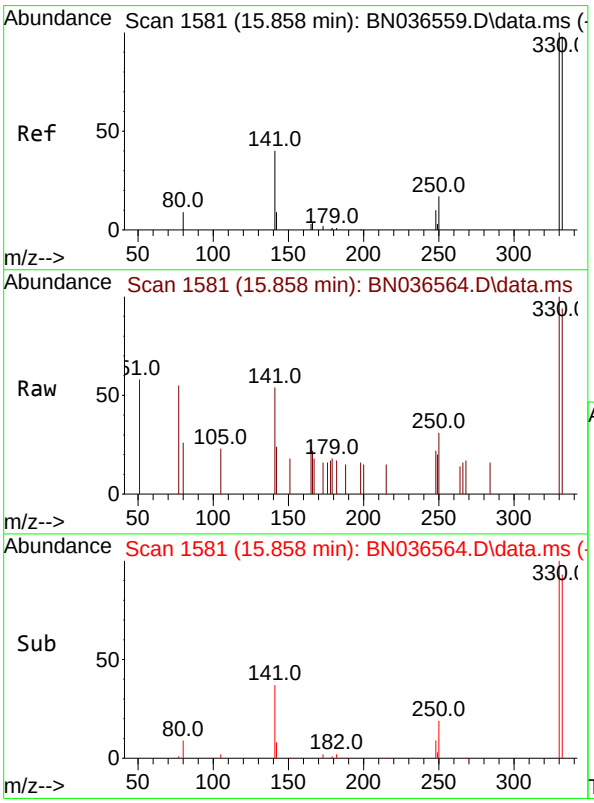
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Tgt Ion:164 Resp: 3085

Ion	Ratio	Lower	Upper
164	100		
162	105.0	84.2	126.2
160	51.7	42.2	63.2

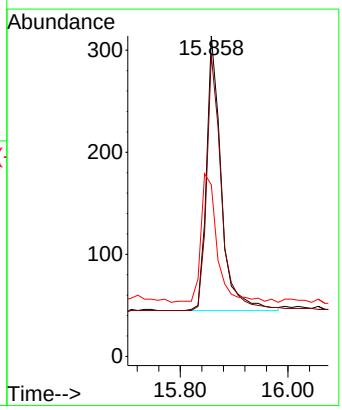


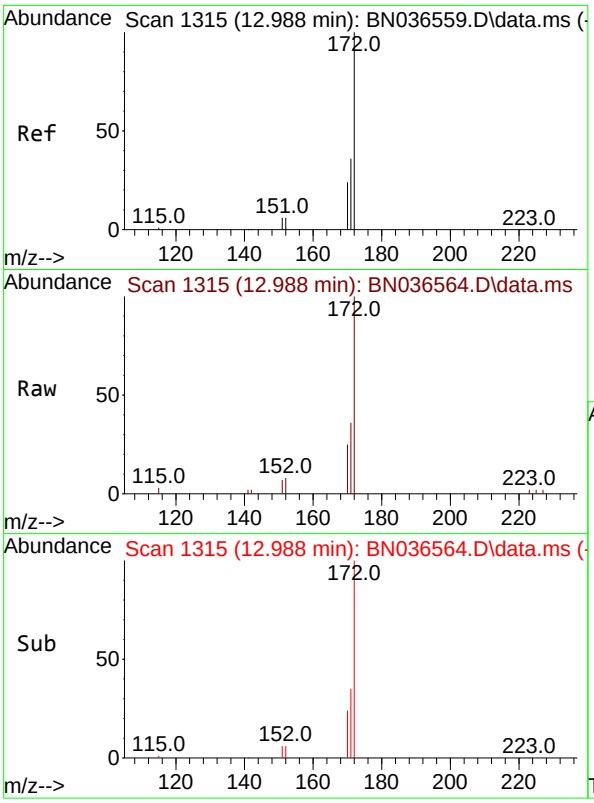


#14
2,4,6-Tribromophenol
Concen: 0.365 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion:330 Resp: 511

Ion	Ratio	Lower	Upper
330	100		
332	93.9	75.2	112.8
141	51.5	43.4	65.2



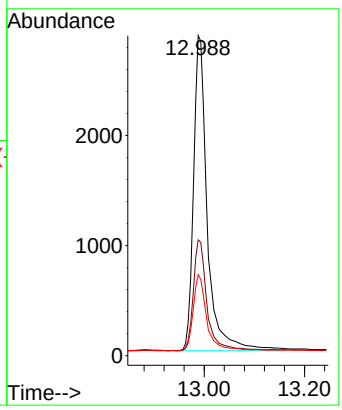


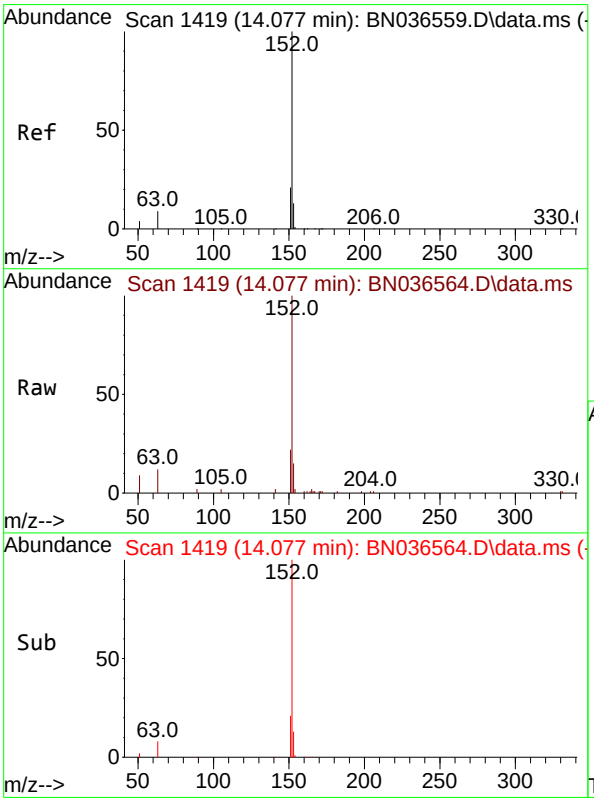
#15
2-Fluorobiphenyl
Concen: 0.432 ng
RT: 12.988 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Tgt Ion:172 Resp: 7753

Ion	Ratio	Lower	Upper
172	100		
171	36.2	29.5	44.3
170	25.3	20.2	30.4

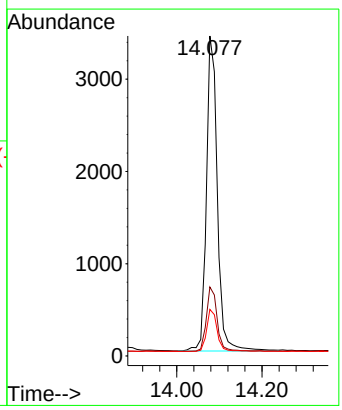


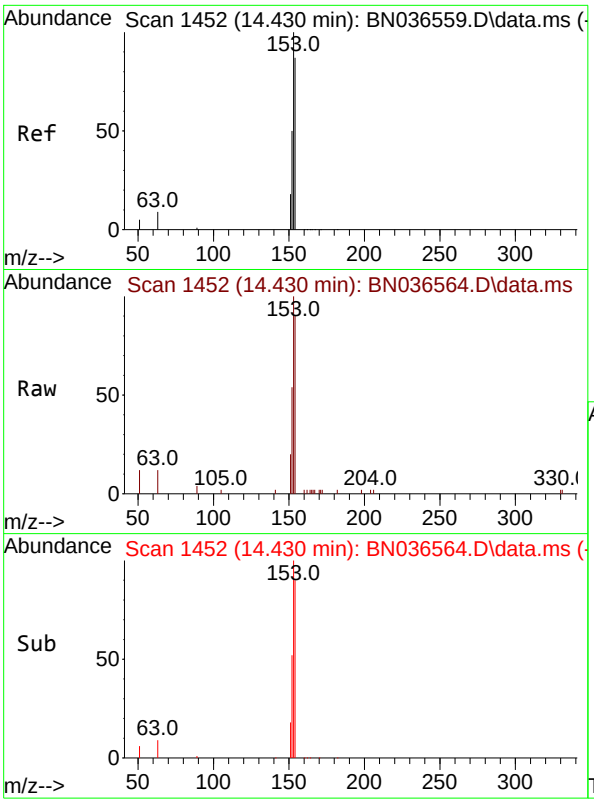


#16
Acenaphthylene
Concen: 0.416 ng
RT: 14.077 min Scan# 1419
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion:152 Resp: 6059

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.2	24.4
153	12.9	10.6	15.8



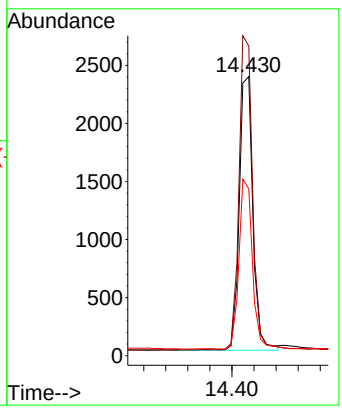


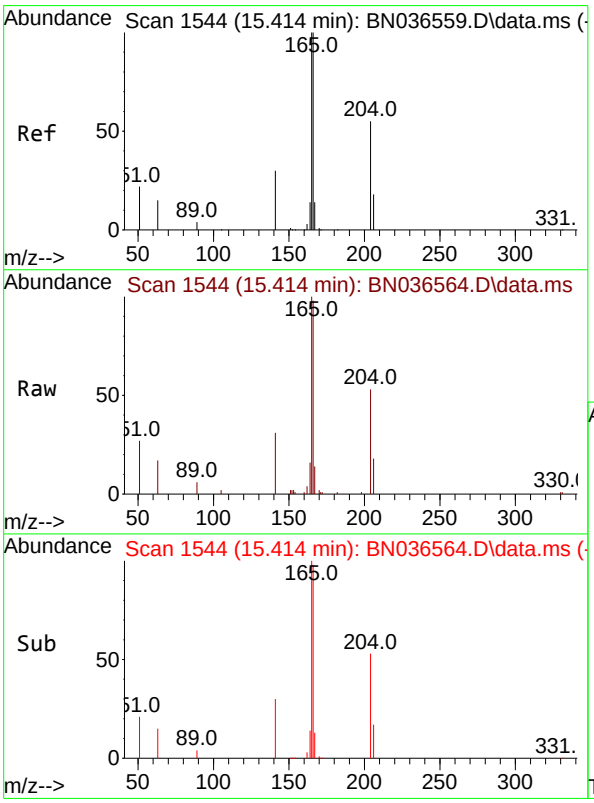
#17
Acenaphthene
Concen: 0.423 ng
RT: 14.430 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Tgt Ion:154 Resp: 4035

Ion	Ratio	Lower	Upper
154	100		
153	115.5	94.1	141.1
152	61.9	49.8	74.6

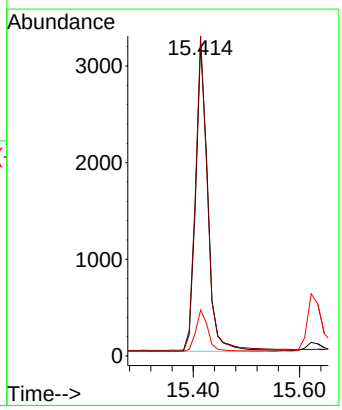


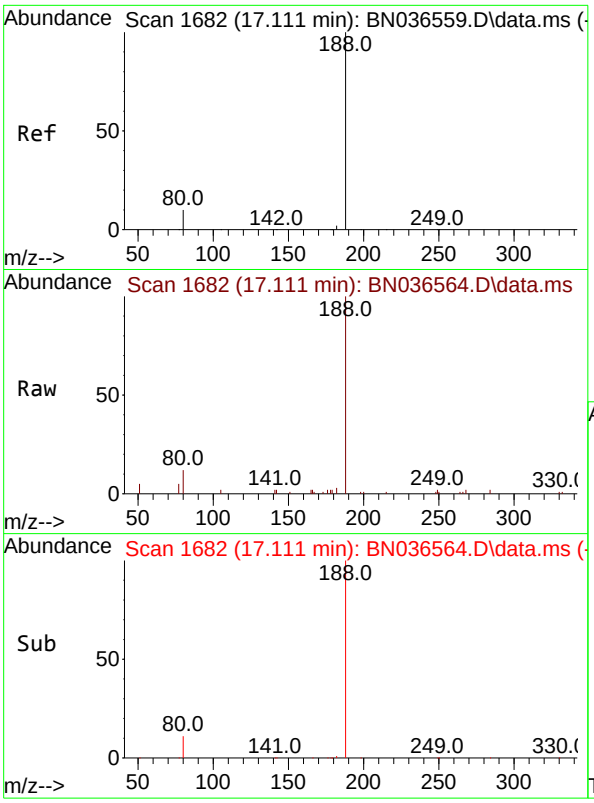


#18
Fluorene
Concen: 0.405 ng
RT: 15.414 min Scan# 1544
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion:166 Resp: 5226

Ion	Ratio	Lower	Upper
166	100		
165	101.1	79.8	119.8
167	13.1	10.6	15.8



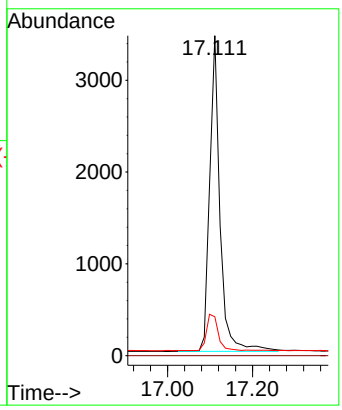


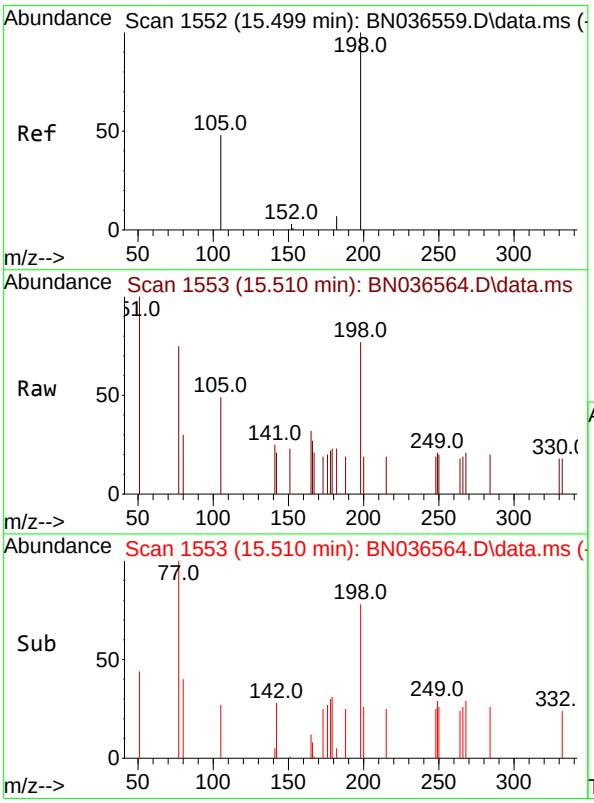
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Tgt Ion:188 Resp: 5778

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.2	8.8	13.2

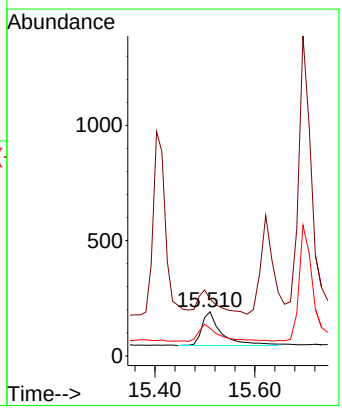


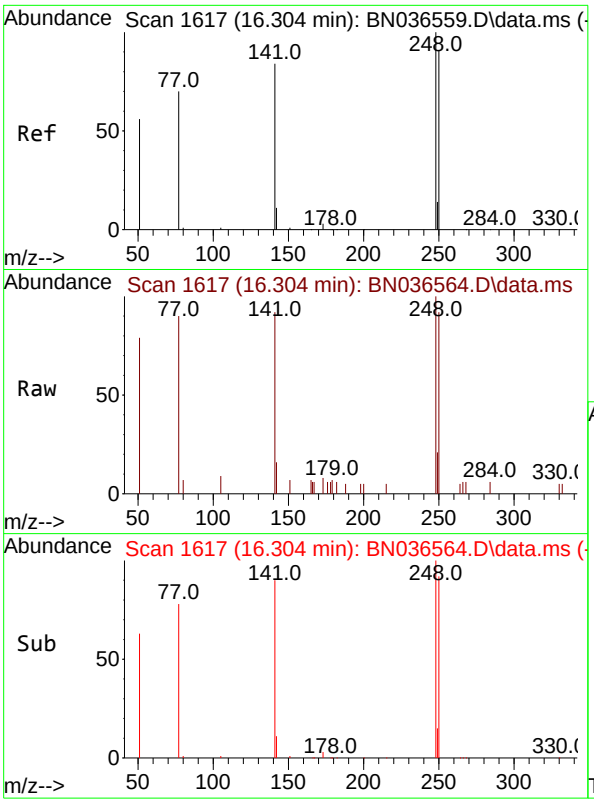


#20
4,6-Dinitro-2-methylphenol
Concen: 0.420 ng
RT: 15.510 min Scan# 1553
Delta R.T. 0.011 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion:198 Resp: 404

Ion	Ratio	Lower	Upper
198	100		
51	129.3	107.9	161.9
105	62.8	56.2	84.2



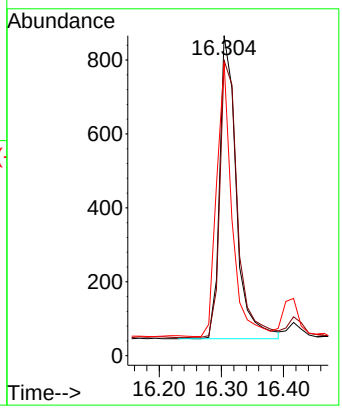


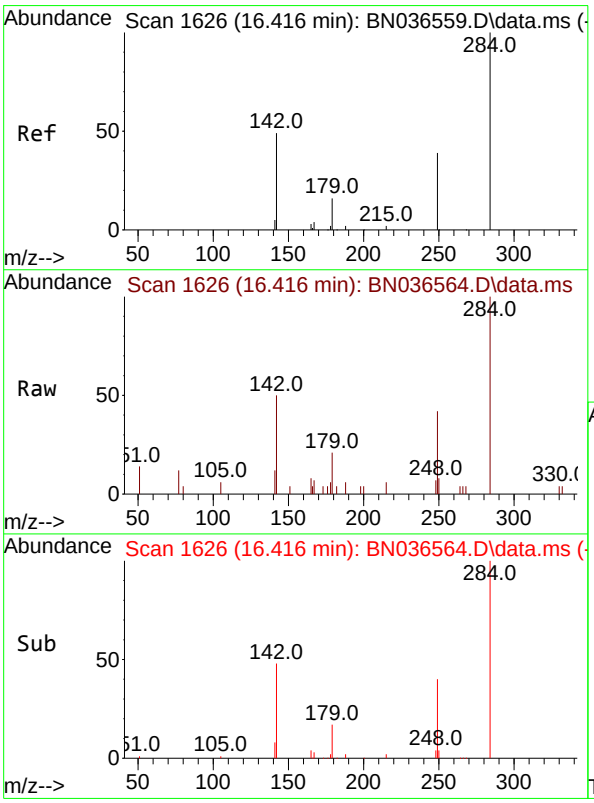
#21
4-Bromophenyl-phenylether
Concen: 0.421 ng
RT: 16.304 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Tgt Ion:248 Resp: 1524

Ion	Ratio	Lower	Upper
248	100		
250	92.3	73.0	109.6
141	91.6	68.6	103.0

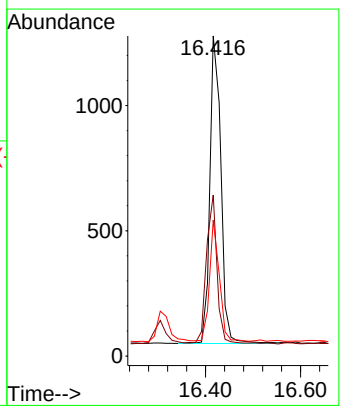


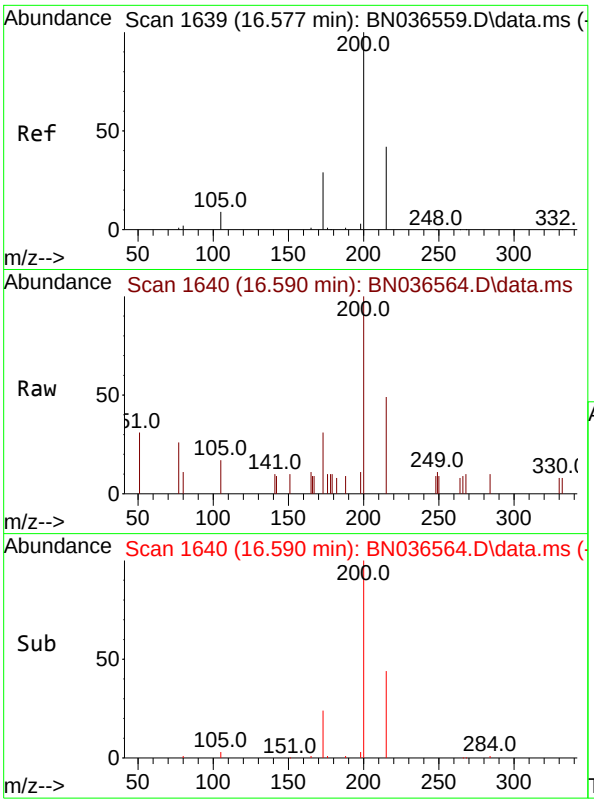


#22
Hexachlorobenzene
Concen: 0.455 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion:284 Resp: 1987

Ion	Ratio	Lower	Upper
284	100		
142	47.5	37.0	55.4
249	34.9	28.1	42.1



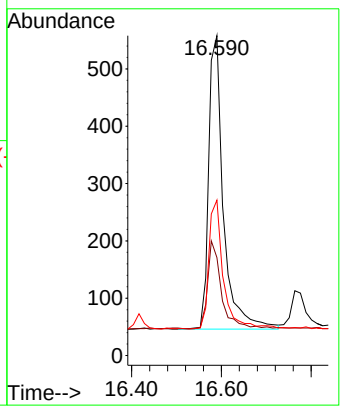


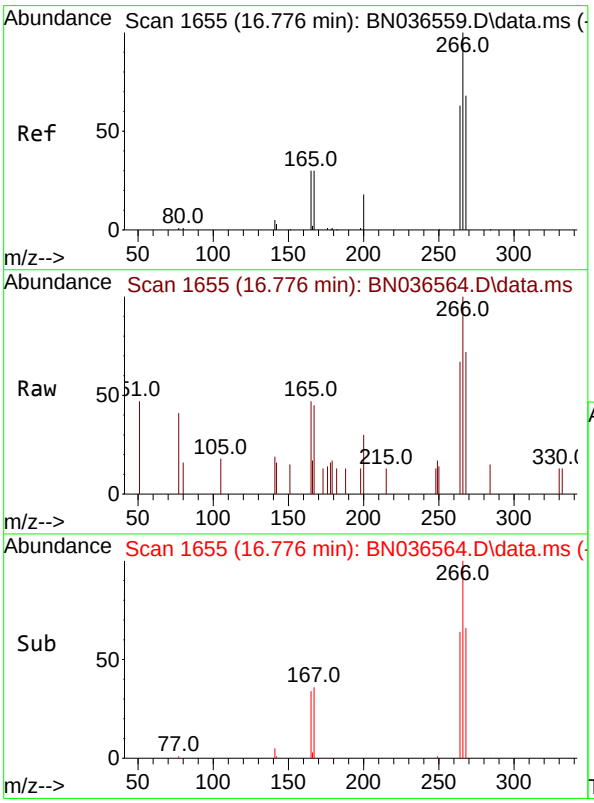
#23
Atrazine
Concen: 0.401 ng
RT: 16.590 min Scan# 1
Delta R.T. 0.012 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Tgt Ion:200 Resp: 1165

Ion	Ratio	Lower	Upper
200	100		
173	30.6	27.3	40.9
215	48.6	36.8	55.2

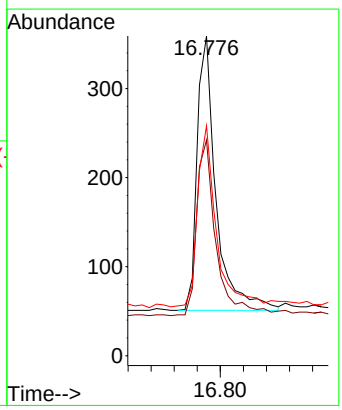


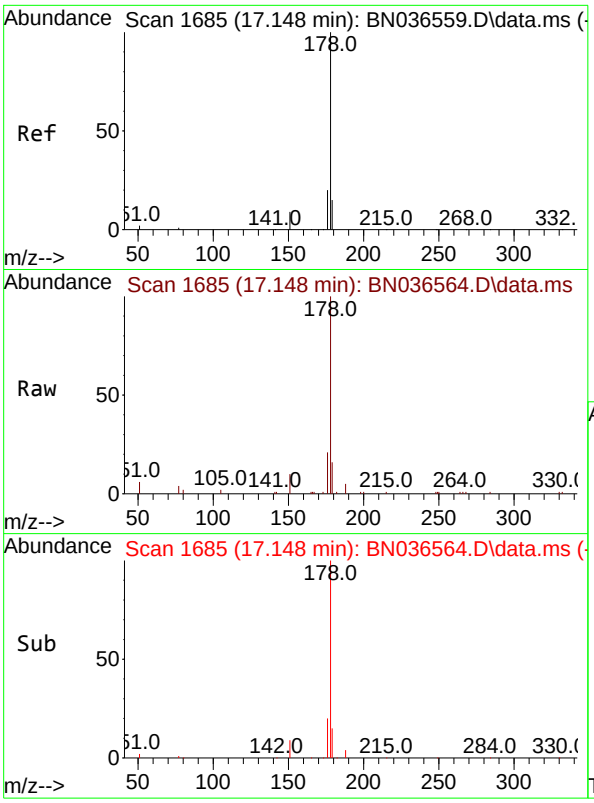


#24
Pentachlorophenol
Concen: 0.351 ng
RT: 16.776 min Scan# 1655
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion:266 Resp: 699

Ion	Ratio	Lower	Upper
266	100		
264	67.1	49.6	74.4
268	66.7	50.9	76.3



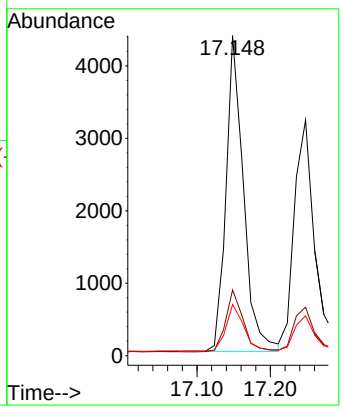


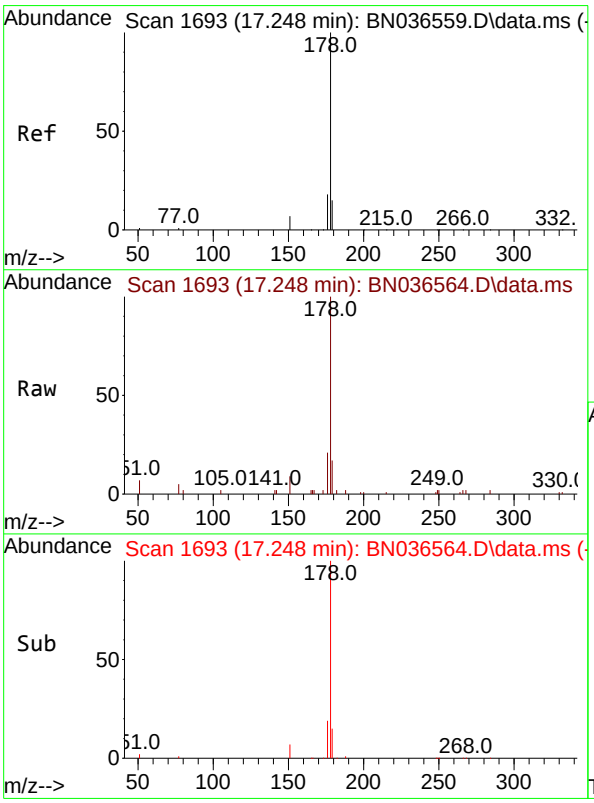
#25
Phenanthrene
Concen: 0.417 ng
RT: 17.148 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Tgt Ion:178 Resp: 7229

Ion	Ratio	Lower	Upper
178	100		
176	19.8	15.9	23.9
179	15.0	12.2	18.4

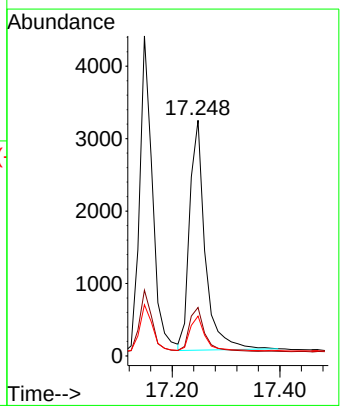


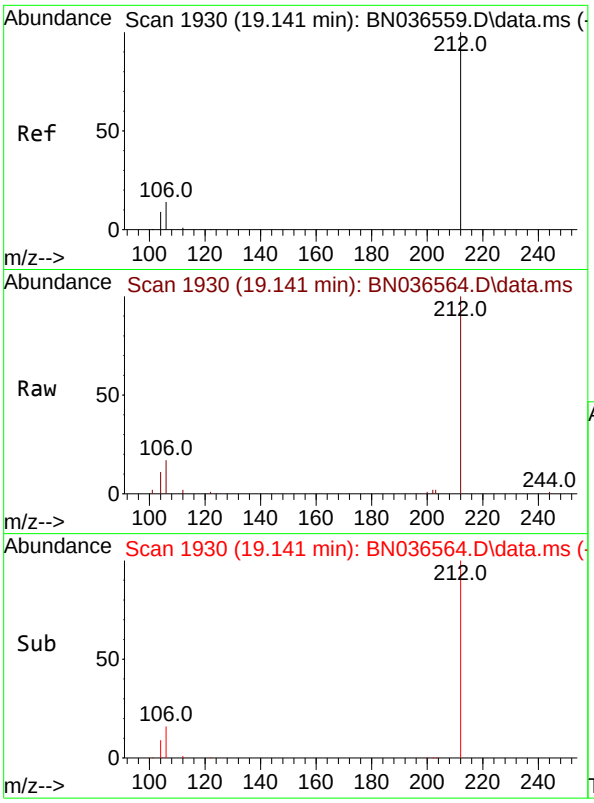


#26
Anthracene
Concen: 0.407 ng
RT: 17.248 min Scan# 1693
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion:178 Resp: 6358

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.4	23.2
179	14.8	12.6	18.8



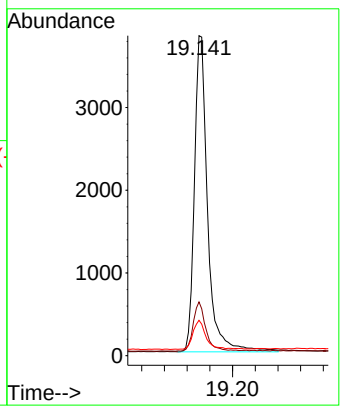


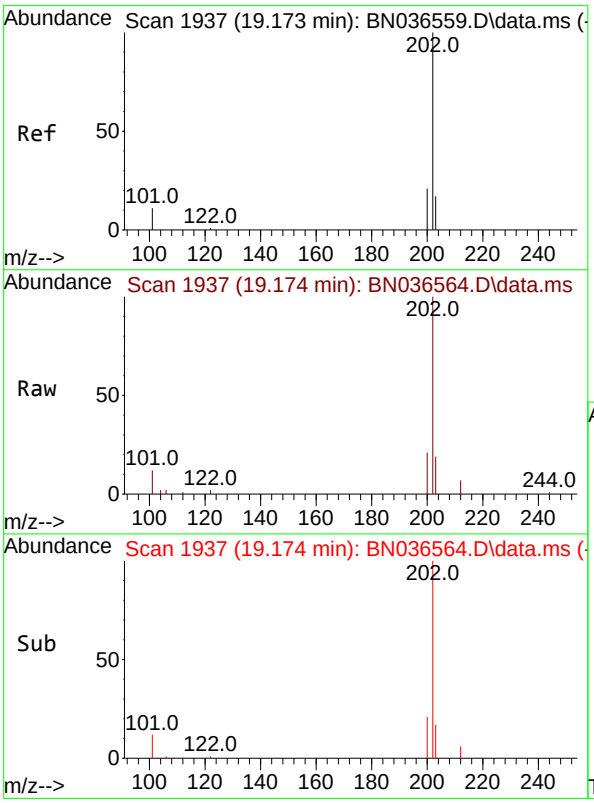
#27
Fluoranthene-d10
Concen: 0.415 ng
RT: 19.141 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Tgt Ion:212 Resp: 6152

Ion	Ratio	Lower	Upper
212	100		
106	14.8	11.8	17.6
104	8.8	7.3	10.9

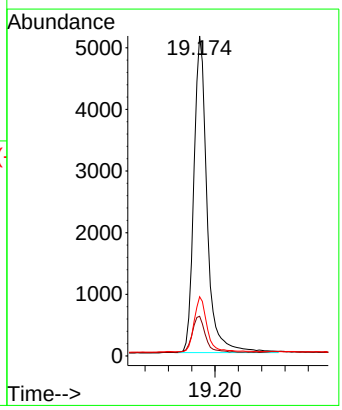


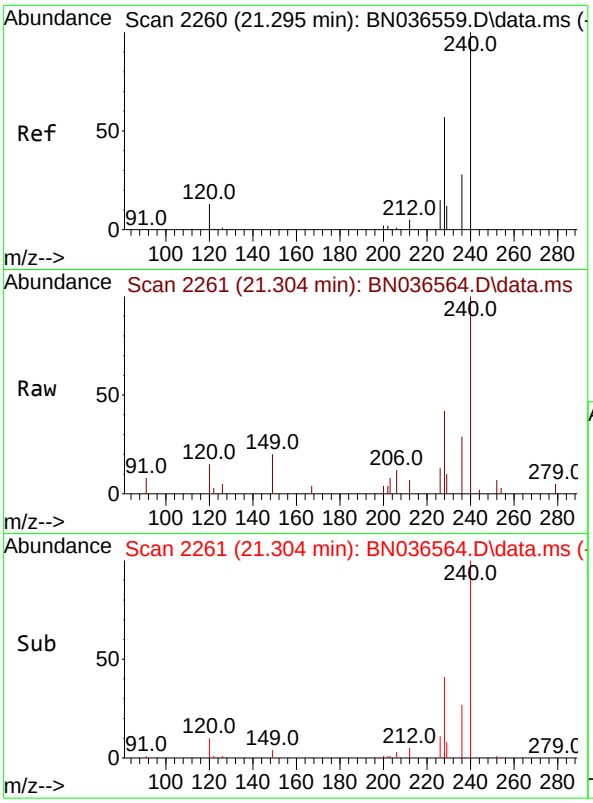


#28
Fluoranthene
Concen: 0.414 ng
RT: 19.174 min Scan# 1937
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion:202 Resp: 8068

Ion	Ratio	Lower	Upper
202	100		
101	11.6	9.4	14.0
203	16.8	13.5	20.3



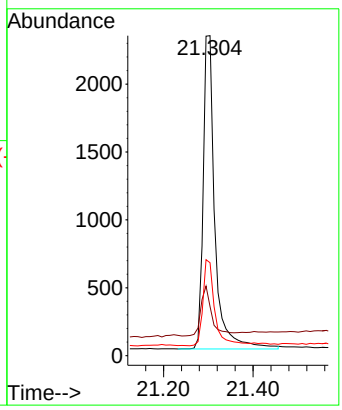


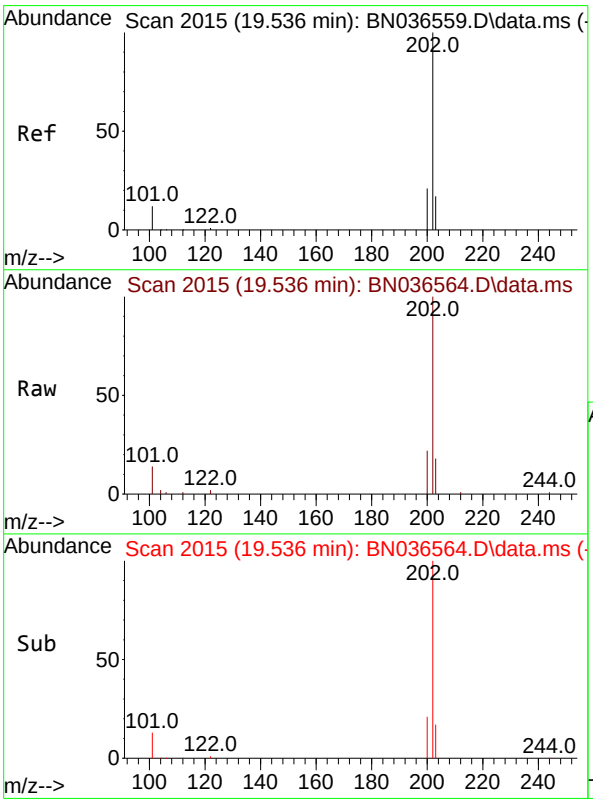
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.304 min Scan# 2
Delta R.T. 0.009 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Tgt Ion:240 Resp: 4219

Ion	Ratio	Lower	Upper
240	100		
120	15.4	14.6	22.0
236	29.1	24.1	36.1

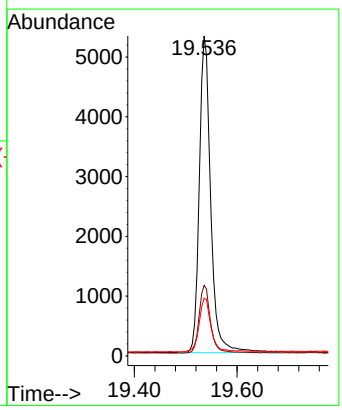


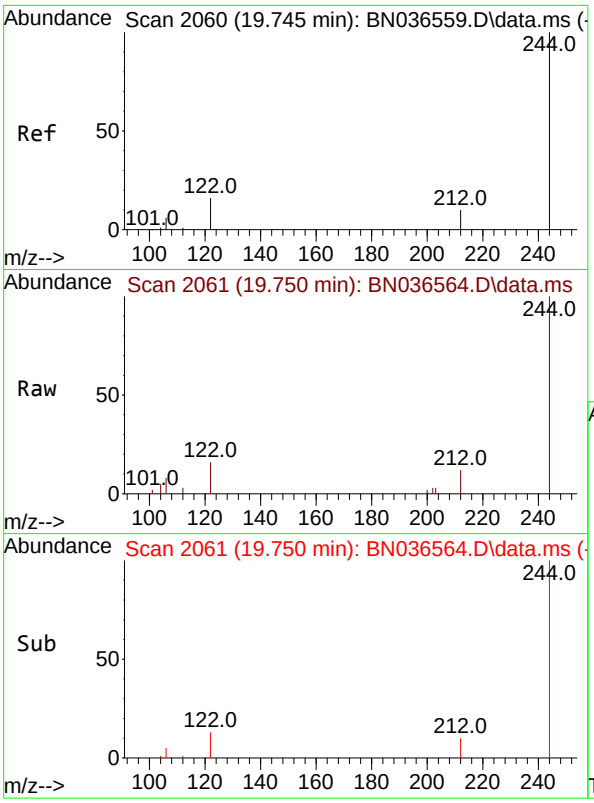


#30
Pyrene
Concen: 0.395 ng
RT: 19.536 min Scan# 2015
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion:202 Resp: 8156

Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.1	25.7
203	17.4	14.1	21.1



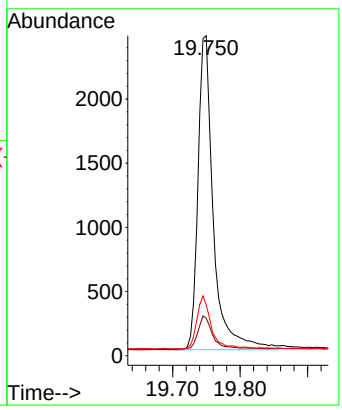


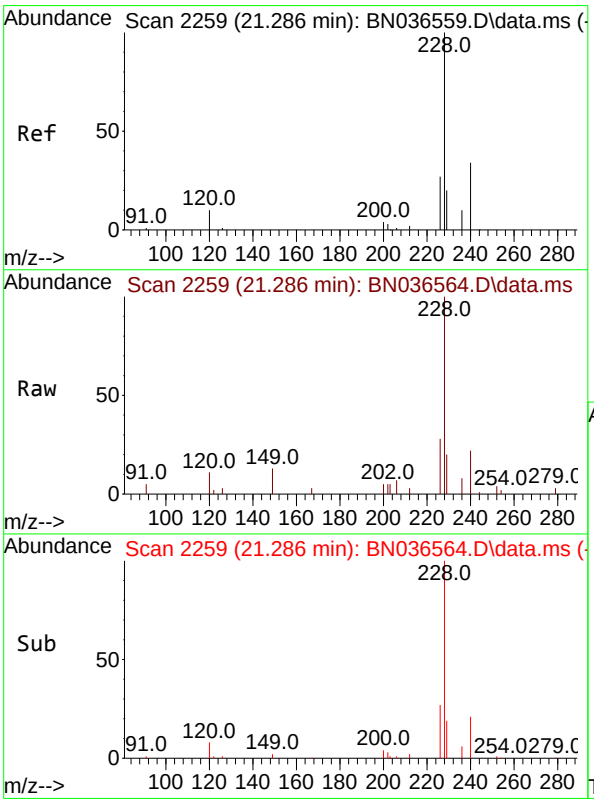
#31
Terphenyl-d14
Concen: 0.384 ng
RT: 19.750 min Scan# 2
Delta R.T. 0.005 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Tgt Ion:244 Resp: 3880

Ion	Ratio	Lower	Upper
244	100		
212	11.7	9.6	14.4
122	15.8	13.9	20.9

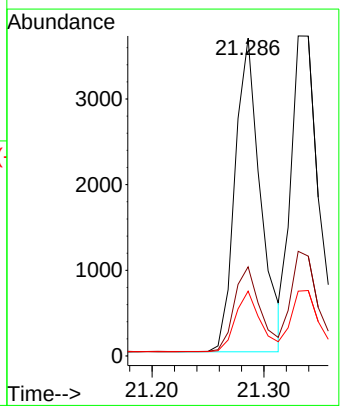


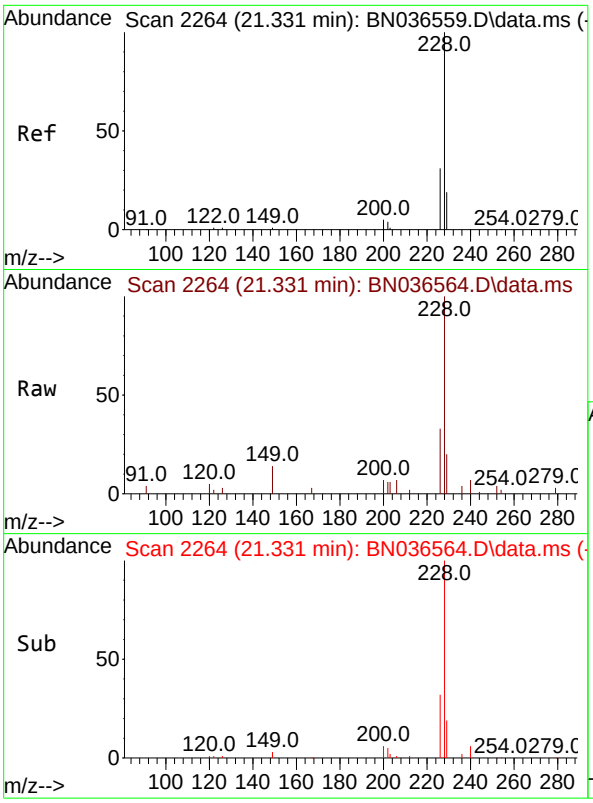


#32
Benzo(a)anthracene
Concen: 0.396 ng
RT: 21.286 min Scan# 2259
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion:228 Resp: 5814

Ion	Ratio	Lower	Upper
228	100		
226	28.1	22.5	33.7
229	20.4	16.6	25.0



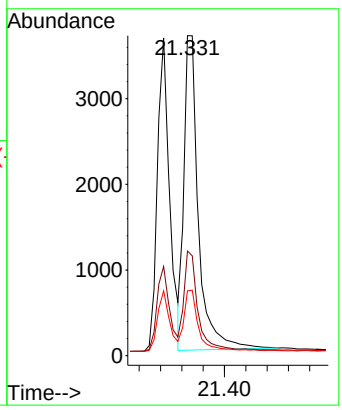


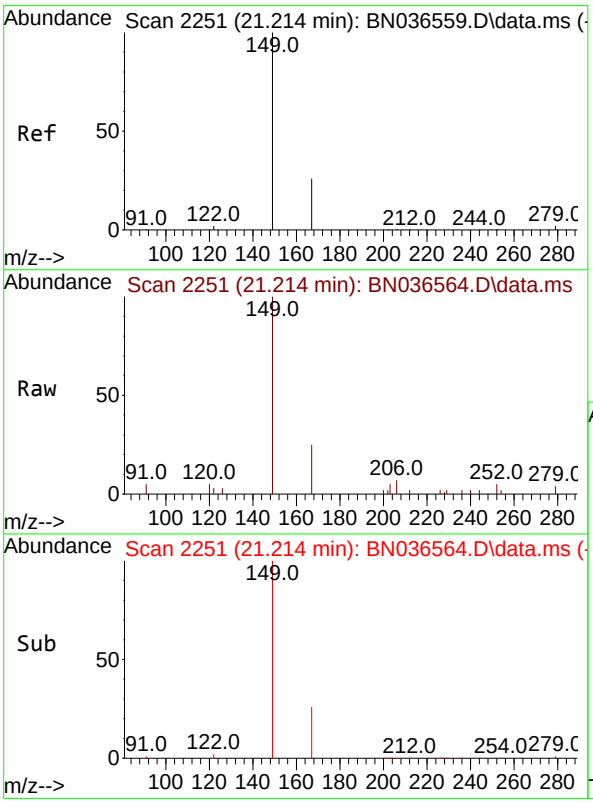
#33
Chrysene
Concen: 0.433 ng
RT: 21.331 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Tgt Ion:228 Resp: 6940

Ion	Ratio	Lower	Upper
228	100		
226	32.7	25.3	37.9
229	20.3	15.8	23.8

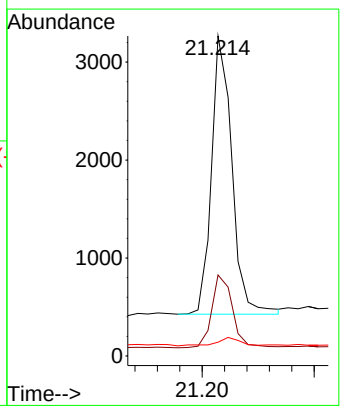


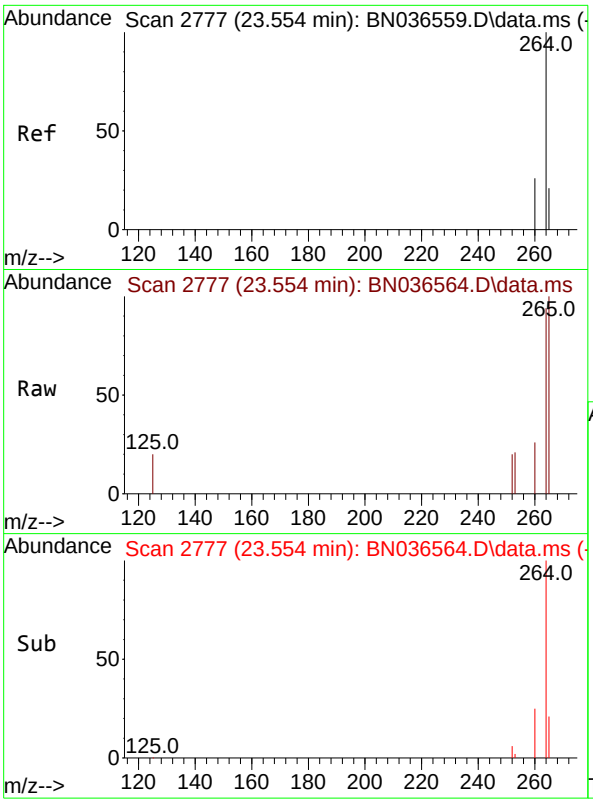


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.344 ng
RT: 21.214 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion:149 Resp: 3594

Ion	Ratio	Lower	Upper
149	100		
167	26.6	20.7	31.1
279	3.7	3.6	5.4



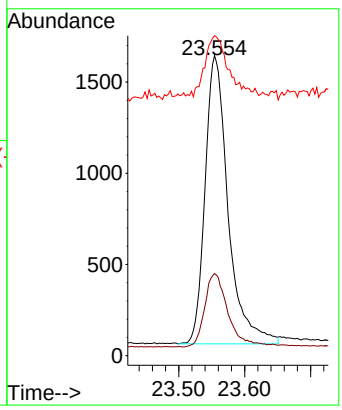


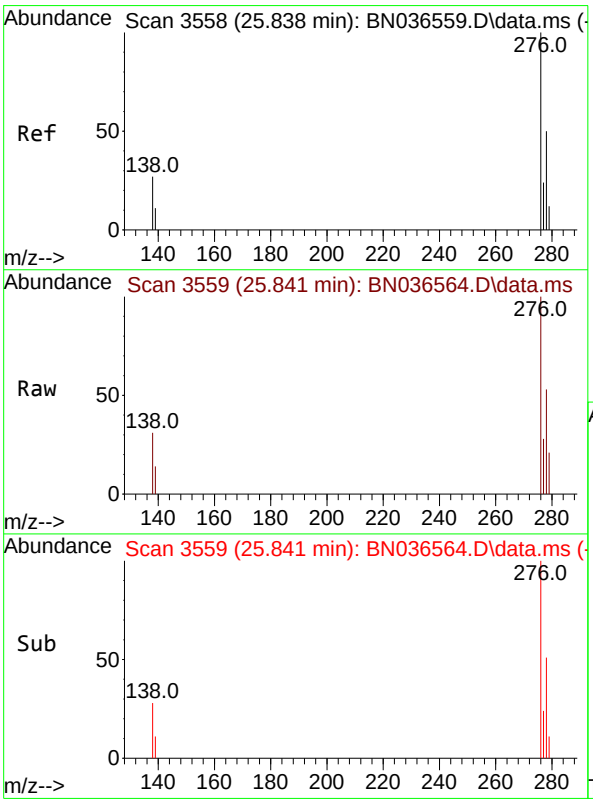
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.554 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Tgt Ion:264 Resp: 3835

Ion	Ratio	Lower	Upper
264	100		
260	27.4	22.6	33.8
265	106.6	88.1	132.1

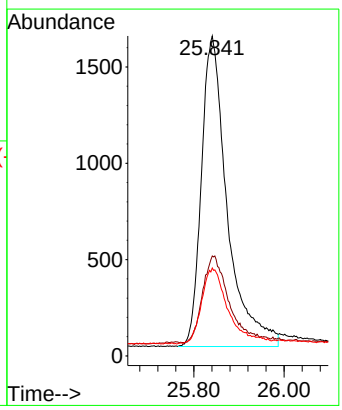


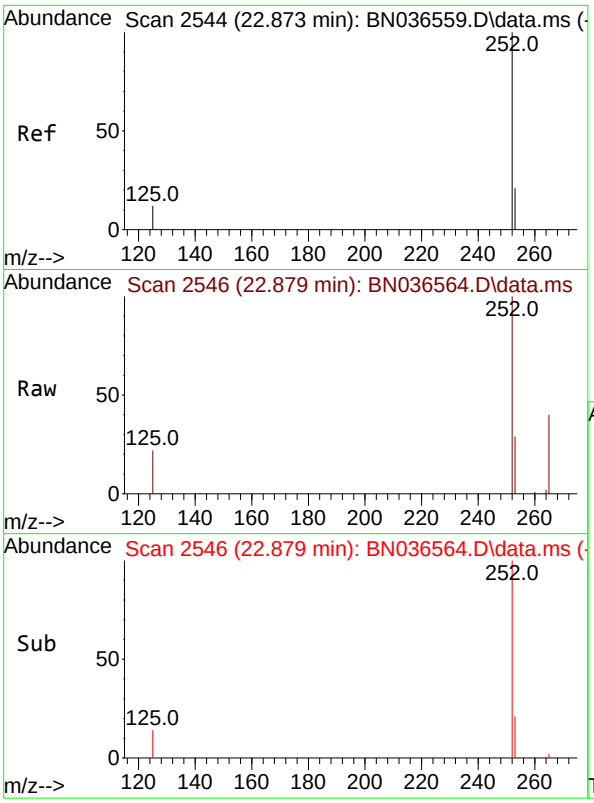


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.463 ng
RT: 25.841 min Scan# 3559
Delta R.T. 0.003 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion:276 Resp: 6410

Ion	Ratio	Lower	Upper
276	100		
138	28.1	23.4	35.2
277	24.5	20.0	30.0



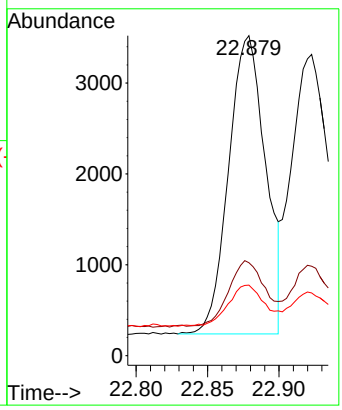


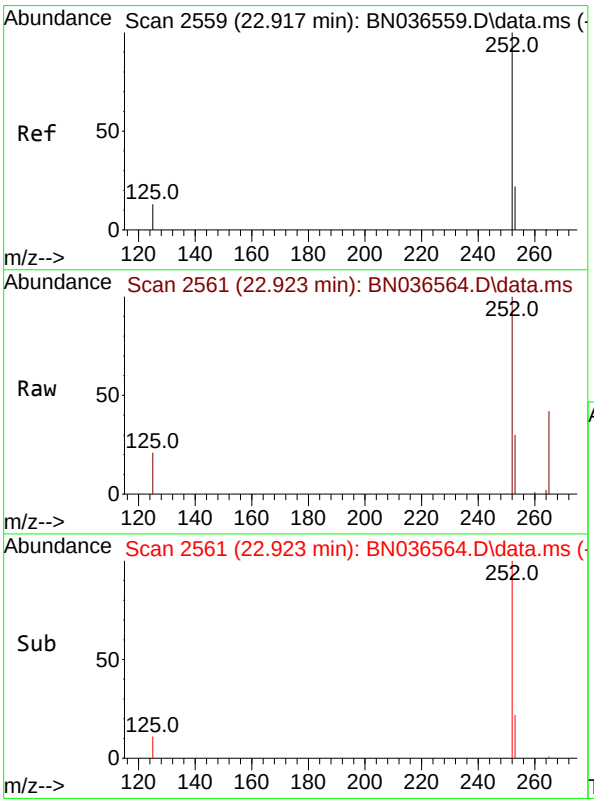
#37
Benzo(b)fluoranthene
Concen: 0.423 ng
RT: 22.879 min Scan# 2
Delta R.T. 0.006 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Tgt Ion:252 Resp: 5902

Ion	Ratio	Lower	Upper
252	100		
253	29.0	23.9	35.9
125	22.1	17.4	26.2

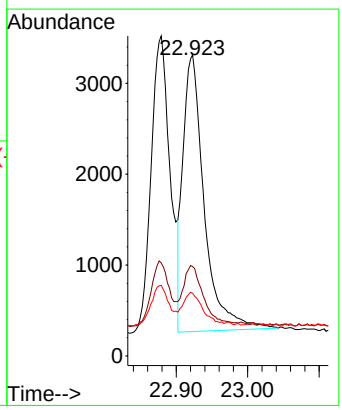


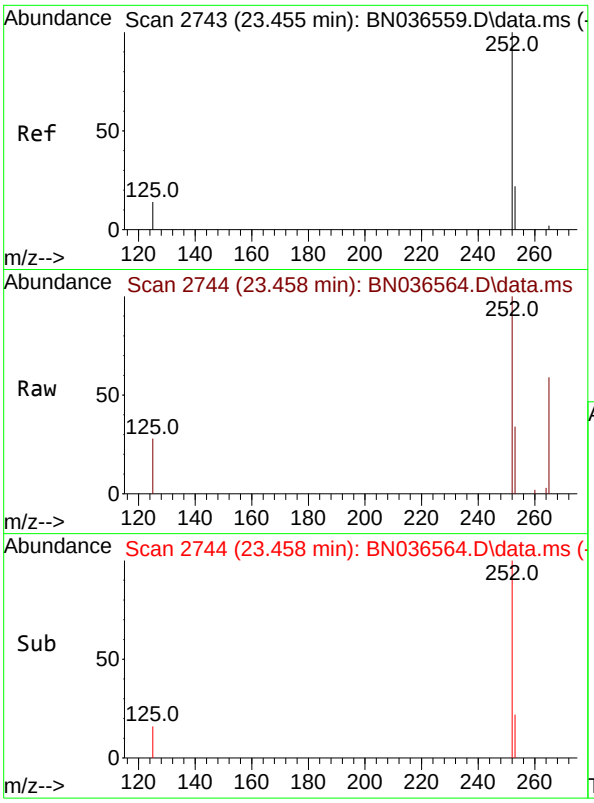


#38
Benzo(k)fluoranthene
Concen: 0.429 ng
RT: 22.923 min Scan# 2561
Delta R.T. 0.006 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion:252 Resp: 6286

Ion	Ratio	Lower	Upper
252	100		
253	29.7	24.6	36.8
125	20.8	17.8	26.8



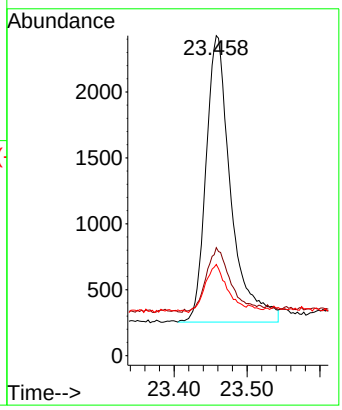


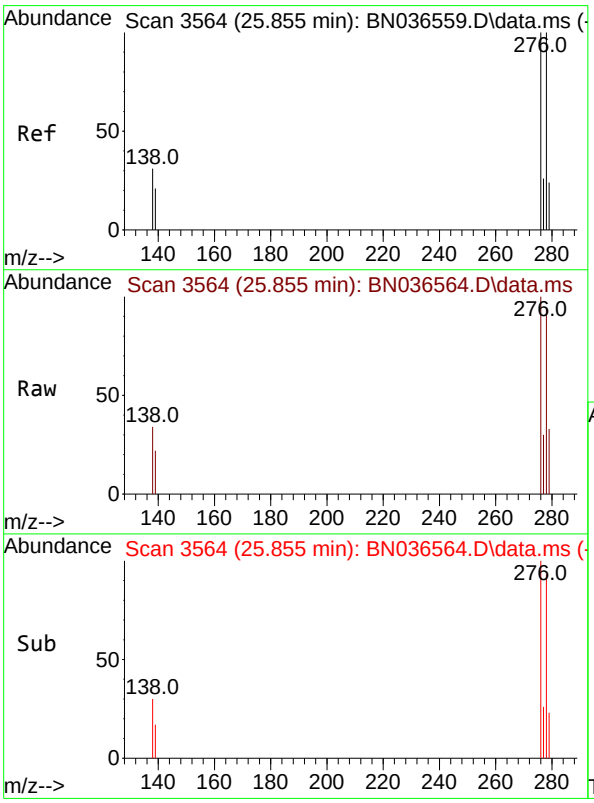
#39
Benzo(a)pyrene
Concen: 0.438 ng
RT: 23.458 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Tgt Ion:252 Resp: 5147

Ion	Ratio	Lower	Upper
252	100		
253	33.7	27.8	41.8
125	28.5	22.7	34.1

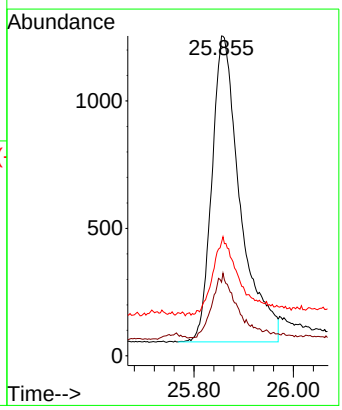


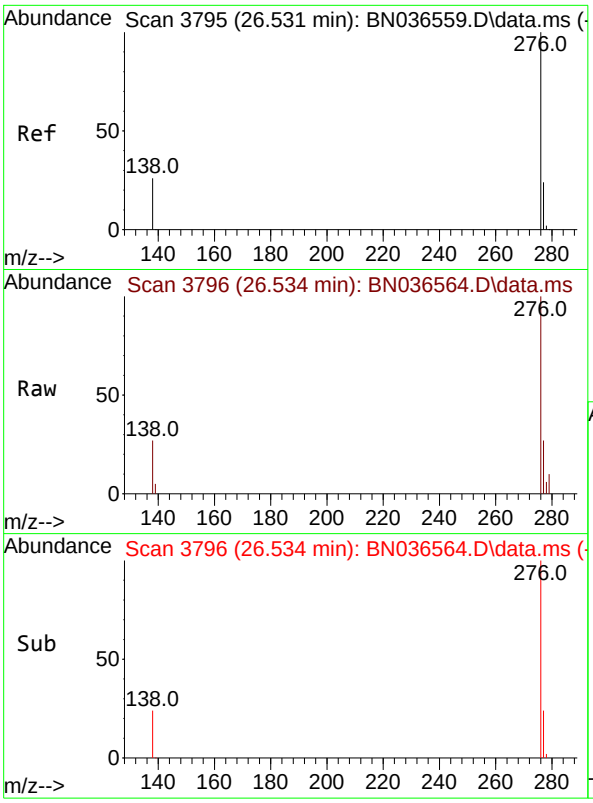


#40
Dibenzo(a,h)anthracene
Concen: 0.440 ng
RT: 25.855 min Scan# 3564
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion:278 Resp: 4740

Ion	Ratio	Lower	Upper
278	100		
139	23.0	20.8	31.2
279	35.5	28.8	43.2



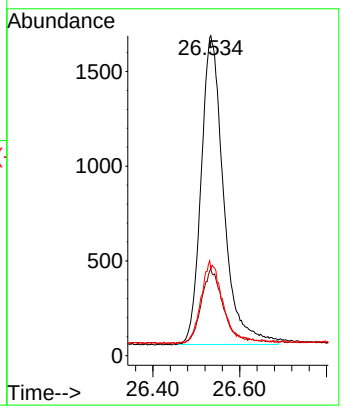


#41
Benzo(g,h,i)perylene
Concen: 0.477 ng
RT: 26.534 min Scan# 3
Delta R.T. 0.003 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Tgt Ion:276 Resp: 5877

Ion	Ratio	Lower	Upper
276	100		
277	27.2	22.2	33.4
138	27.2	24.1	36.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036564.D
Acq On : 10 Mar 2025 16:38
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Quant Time: Mar 10 17:10:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 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	113	0.00
2		1,4-Dioxane	0.444	0.521	-17.3	118	0.00
3		n-Nitrosodimethylamine	0.898	0.918	-2.2	111	0.00
4	S	2-Fluorophenol	0.932	0.972	-4.3	111	0.00
5	S	Phenol-d6	1.152	1.103	4.3	110	0.00
6		bis(2-Chloroethyl)ether	1.190	1.184	0.5	113	0.00
7	I	Naphthalene-d8	1.000	1.000	0.0	111	0.00
8	S	Nitrobenzene-d5	0.435	0.418	3.9	112	0.00
9		Naphthalene	1.177	1.191	-1.2	109	0.00
10		Hexachlorobutadiene	0.277	0.301	-8.7	113	0.00
11	SURR	2-Methylnaphthalene-d10	0.595	0.594	0.2	108	0.00
12		2-Methylnaphthalene	0.749	0.721	3.7	104	0.00
13	I	Acenaphthene-d10	1.000	1.000	0.0	102	0.00
14	S	2,4,6-Tribromophenol	0.182	0.166	8.8	90	0.00
15	S	2-Fluorobiphenyl	2.327	2.513	-8.0	107	0.00
16		Acenaphthylene	1.888	1.964	-4.0	103	0.00
17		Acenaphthene	1.236	1.308	-5.8	104	0.00
18		Fluorene	1.672	1.694	-1.3	98	0.00
19	I	Phenanthrene-d10	1.000	1.000	0.0	96	0.00
20		4,6-Dinitro-2-methylphenol	0.086	0.070	18.6	87	0.01
21		4-Bromophenyl-phenylether	0.251	0.264	-5.2	93	0.00
22		Hexachlorobenzene	0.303	0.344	-13.5	98	0.00
23		Atrazine	0.201	0.202	-0.5	91	0.01
24		Pentachlorophenol	0.138	0.121	12.3	85	0.00
25		Phenanthrene	1.200	1.251	-4.2	93	0.00
26		Anthracene	1.083	1.100	-1.6	92	0.00
27	SURR	Fluoranthene-d10	1.025	1.065	-3.9	92	0.00
28		Fluoranthene	1.348	1.396	-3.6	93	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	103	0.00
30		Pyrene	1.956	1.933	1.2	93	0.00
31	S	Terphenyl-d14	0.958	0.920	4.0	92	0.00
32		Benzo(a)anthracene	1.391	1.378	0.9	98	0.00
33		Chrysene	1.520	1.645	-8.2	105	0.00
34		Bis(2-ethylhexyl)phthalate	0.990	0.852	13.9	84	0.00
35	I	Perylene-d12	1.000	1.000	0.0	108	0.00
36		Indeno(1,2,3-cd)pyrene	1.444	1.671	-15.7	117	0.00
37		Benzo(b)fluoranthene	1.456	1.539	-5.7	108	0.00
38		Benzo(k)fluoranthene	1.527	1.639	-7.3	110	0.00
39	C	Benzo(a)pyrene	1.226	1.342	-9.5	112	0.00
40		Dibenzo(a,h)anthracene	1.124	1.236	-10.0	115	0.00
41		Benzo(g,h,i)perylene	1.286	1.532	-19.1	120	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036564.D
Acq On : 10 Mar 2025 16:38
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Quant Time: Mar 10 17:10:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 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	113	0.00
2		1,4-Dioxane	0.400	0.470	-17.5	118	0.00
3		n-Nitrosodimethylamine	0.400	0.409	-2.2	111	0.00
4	S	2-Fluorophenol	0.400	0.417	-4.2	111	0.00
5	S	Phenol-d6	0.400	0.383	4.3	110	0.00
6		bis(2-Chloroethyl)ether	0.400	0.398	0.5	113	0.00
7	I	Naphthalene-d8	0.400	0.400	0.0	111	0.00
8	S	Nitrobenzene-d5	0.400	0.384	4.0	112	0.00
9		Naphthalene	0.400	0.405	-1.3	109	0.00
10		Hexachlorobutadiene	0.400	0.434	-8.5	113	0.00
11	SURR	2-Methylnaphthalene-d10	0.400	0.399	0.3	108	0.00
12		2-Methylnaphthalene	0.400	0.385	3.8	104	0.00
13	I	Acenaphthene-d10	0.400	0.400	0.0	102	0.00
14	S	2,4,6-Tribromophenol	0.400	0.365	8.8	90	0.00
15	S	2-Fluorobiphenyl	0.400	0.432	-8.0	107	0.00
16		Acenaphthylene	0.400	0.416	-4.0	103	0.00
17		Acenaphthene	0.400	0.423	-5.7	104	0.00
18		Fluorene	0.400	0.405	-1.3	98	0.00
19	I	Phenanthrene-d10	0.400	0.400	0.0	96	0.00
20		4,6-Dinitro-2-methylphenol	0.400	0.420	-5.0	87	0.01
21		4-Bromophenyl-phenylether	0.400	0.421	-5.2	93	0.00
22		Hexachlorobenzene	0.400	0.455	-13.7	98	0.00
23		Atrazine	0.400	0.401	-0.3	91	0.01
24		Pentachlorophenol	0.400	0.351	12.3	85	0.00
25		Phenanthrene	0.400	0.417	-4.2	93	0.00
26		Anthracene	0.400	0.407	-1.7	92	0.00
27	SURR	Fluoranthene-d10	0.400	0.415	-3.7	92	0.00
28		Fluoranthene	0.400	0.414	-3.5	93	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	103	0.00
30		Pyrene	0.400	0.395	1.3	93	0.00
31	S	Terphenyl-d14	0.400	0.384	4.0	92	0.00
32		Benzo(a)anthracene	0.400	0.396	1.0	98	0.00
33		Chrysene	0.400	0.433	-8.2	105	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.344	14.0	84	0.00
35	I	Perylene-d12	0.400	0.400	0.0	108	0.00
36		Indeno(1,2,3-cd)pyrene	0.400	0.463	-15.8	117	0.00
37		Benzo(b)fluoranthene	0.400	0.423	-5.7	108	0.00
38		Benzo(k)fluoranthene	0.400	0.429	-7.2	110	0.00
39	C	Benzo(a)pyrene	0.400	0.438	-9.5	112	0.00
40		Dibenzo(a,h)anthracene	0.400	0.440	-10.0	115	0.00
41		Benzo(g,h,i)perylene	0.400	0.477	-19.2	120	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: TETR06

Lab Code: CHEM Case No.: Q1621 SAS No.: Q1621 SDG No.: Q1621

Instrument ID: BNA_N Calibration Date/Time: 03/27/2025 09:49

Lab File ID: BN036729.D Init. Calib. Date(s): 03/10/2025 03/10/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 11:42 15:19

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.595	0.536		-9.9	20.0
Fluoranthene-d10	1.025	1.110		8.3	20.0
2-Fluorophenol	0.932	0.879		-5.7	20.0
Phenol-d6	1.152	1.073		-6.9	20.0
Nitrobenzene-d5	0.435	0.371		-14.7	20.0
2-Fluorobiphenyl	2.327	1.998		-14.1	20.0
2,4,6-Tribromophenol	0.182	0.167		-8.2	20.0
Terphenyl-d14	0.958	0.820		-14.4	20.0
1,4-Dioxane	0.444	0.426		-4.1	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036729.D
Acq On : 27 Mar 2025 09:49
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Mar 27 10:52:22 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

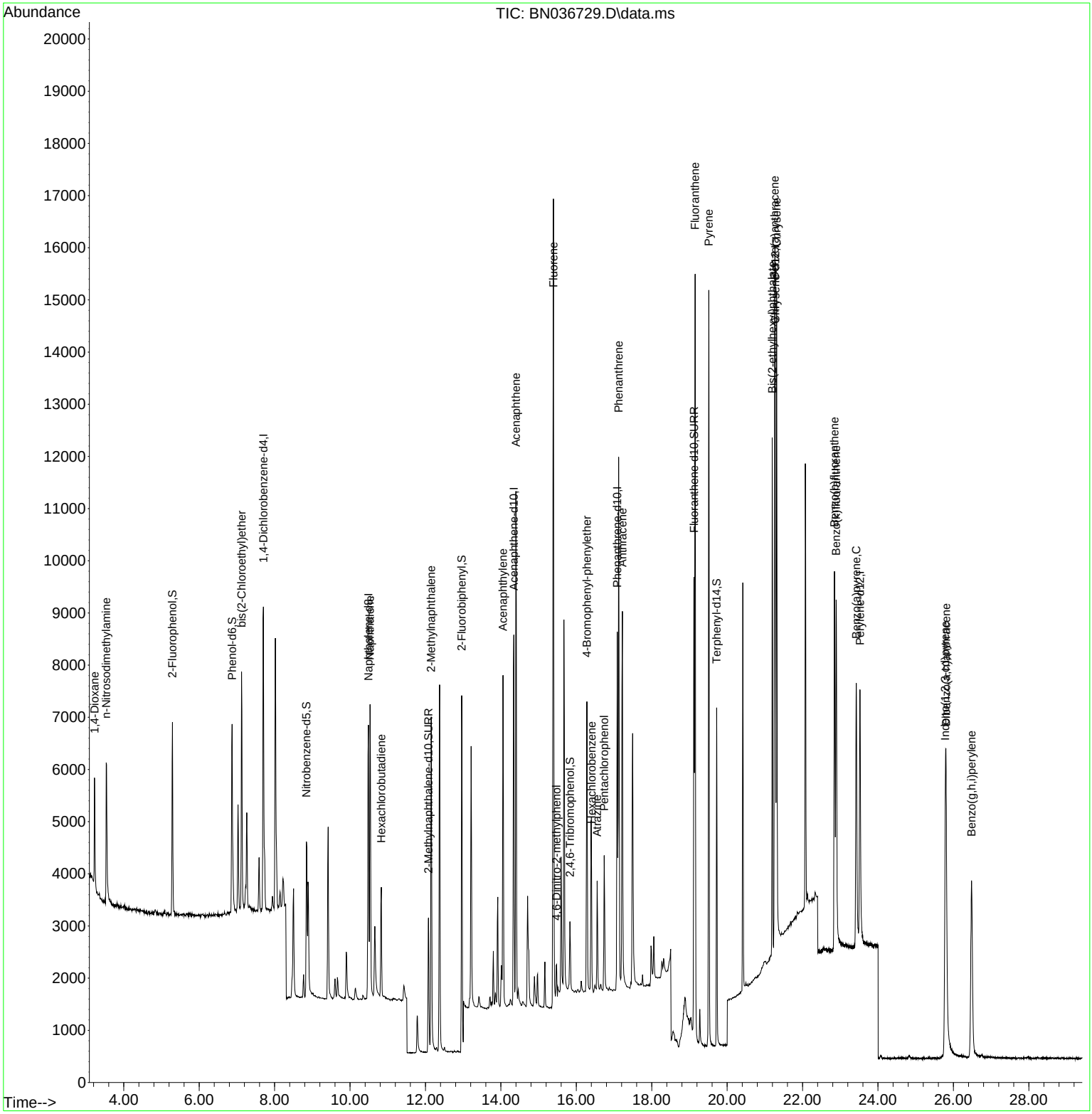
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.703	152	2892	0.400	ng		-0.02
7) Naphthalene-d8	10.487	136	7150	0.400	ng		#-0.02
13) Acenaphthene-d10	14.345	164	4255	0.400	ng		-0.02
19) Phenanthrene-d10	17.086	188	8860	0.400	ng		-0.02
29) Chrysene-d12	21.277	240	7759	0.400	ng		#-0.02
35) Perylene-d12	23.522	264	6723	0.400	ng		#-0.03
System Monitoring Compounds							
4) 2-Fluorophenol	5.290	112	2542	0.377	ng		-0.02
5) Phenol-d6	6.872	99	3104	0.373	ng		-0.03
8) Nitrobenzene-d5	8.843	82	2653	0.341	ng		-0.03
11) 2-Methylnaphthalene-d10	12.080	152	3831	0.360	ng		-0.03
14) 2,4,6-Tribromophenol	15.833	330	711	0.368	ng		-0.02
15) 2-Fluorobiphenyl	12.963	172	8502	0.343	ng		-0.03
27) Fluoranthene-d10	19.122	212	9834	0.433	ng		-0.02
31) Terphenyl-d14	19.722	244	6361	0.342	ng		-0.02
Target Compounds							Qvalue
2) 1,4-Dioxane	3.225	88	1232	0.384	ng		99
3) n-Nitrosodimethylamine	3.535	42	2246	0.346	ng		91
6) bis(2-Chloroethyl)ether	7.125	93	3157	0.367	ng		100
9) Naphthalene	10.530	128	7512	0.357	ng		99
10) Hexachlorobutadiene	10.829	225	1698	0.343	ng	#	98
12) 2-Methylnaphthalene	12.151	142	4804	0.359	ng		97
16) Acenaphthylene	14.056	152	6856	0.341	ng		99
17) Acenaphthene	14.398	154	4636	0.353	ng		100
18) Fluorene	15.392	166	6299	0.354	ng		100
20) 4,6-Dinitro-2-methylph...	15.478	198	636	0.427	ng	#	74
21) 4-Bromophenyl-phenylether	16.280	248	1998	0.360	ng		99
22) Hexachlorobenzene	16.404	284	2370	0.354	ng		98
23) Atrazine	16.553	200	1715	0.385	ng		98
24) Pentachlorophenol	16.739	266	1259	0.412	ng		98
25) Phenanthrene	17.124	178	10196	0.384	ng		99
26) Anthracene	17.223	178	8794	0.367	ng		99
28) Fluoranthene	19.150	202	12984	0.435	ng		99
30) Pyrene	19.513	202	12887	0.340	ng		100
32) Benzo(a)anthracene	21.259	228	9768	0.362	ng		98
33) Chrysene	21.313	228	10899	0.370	ng		100
34) Bis(2-ethylhexyl)phtha...	21.196	149	8379	0.436	ng	#	98
36) Indeno(1,2,3-cd)pyrene	25.785	276	8360	0.345	ng		99
37) Benzo(b)fluoranthene	22.847	252	9234	0.377	ng		96
38) Benzo(k)fluoranthene	22.891	252	8958	0.349	ng		94
39) Benzo(a)pyrene	23.426	252	7680	0.373	ng		93
40) Dibenzo(a,h)anthracene	25.806	278	6473	0.343	ng		93
41) Benzo(g,h,i)perylene	26.481	276	7201	0.333	ng		98

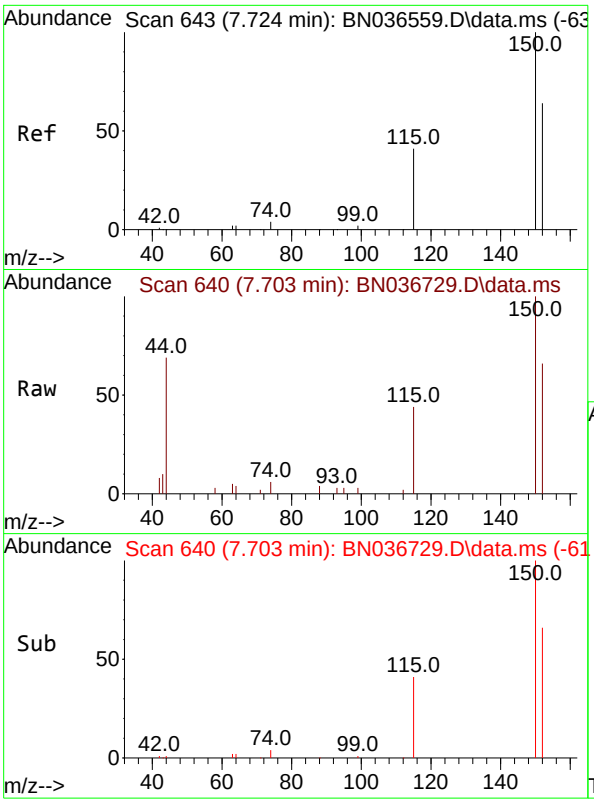
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036729.D
Acq On : 27 Mar 2025 09:49
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Mar 27 10:52:22 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



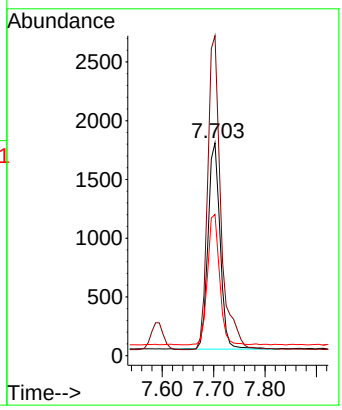


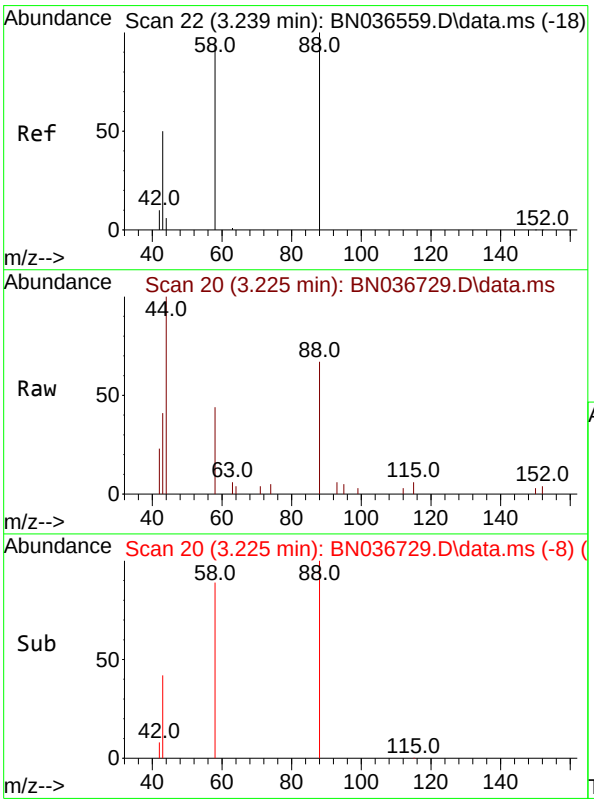
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.703 min Scan# 64
Delta R.T. -0.021 min
Lab File: BN036729.D
Acq: 27 Mar 2025 09:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 2892

Ion	Ratio	Lower	Upper
152	100		
150	150.4	123.7	185.5
115	66.4	54.3	81.5

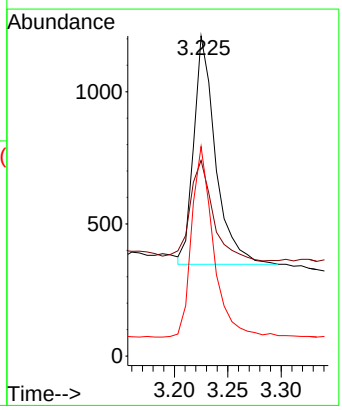


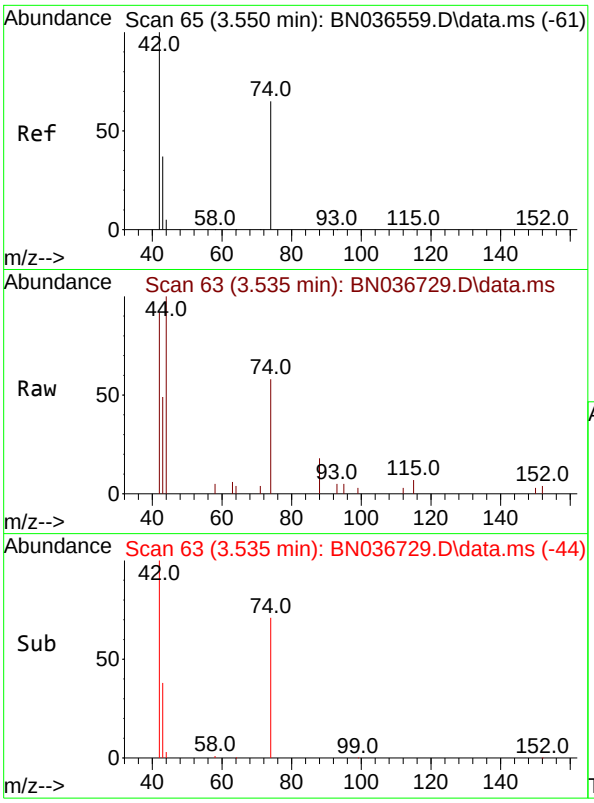


#2
1,4-Dioxane
Concen: 0.384 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036729.D
Acq: 27 Mar 2025 09:49

Tgt Ion: 88 Resp: 1232

Ion	Ratio	Lower	Upper
88	100		
43	47.5	37.8	56.8
58	83.5	67.4	101.2



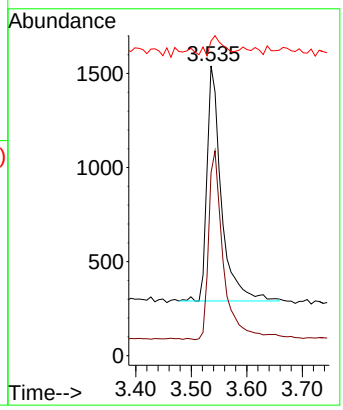


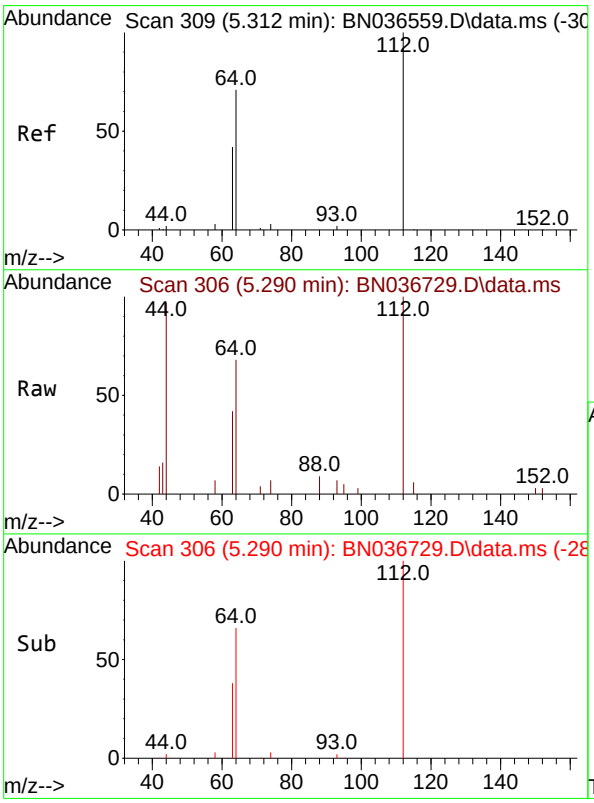
#3
n-Nitrosodimethylamine
Concen: 0.346 ng
RT: 3.535 min Scan# 6
Delta R.T. -0.014 min
Lab File: BN036729.D
Acq: 27 Mar 2025 09:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 42 Resp: 2246

Ion	Ratio	Lower	Upper
42	100		
74	83.6	60.6	90.8
44	7.1	6.3	9.5

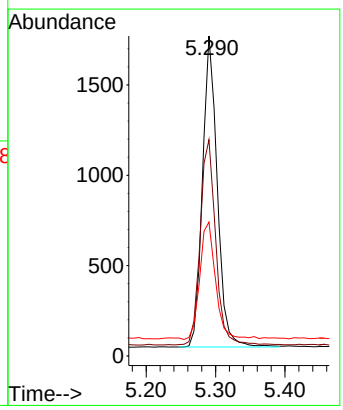


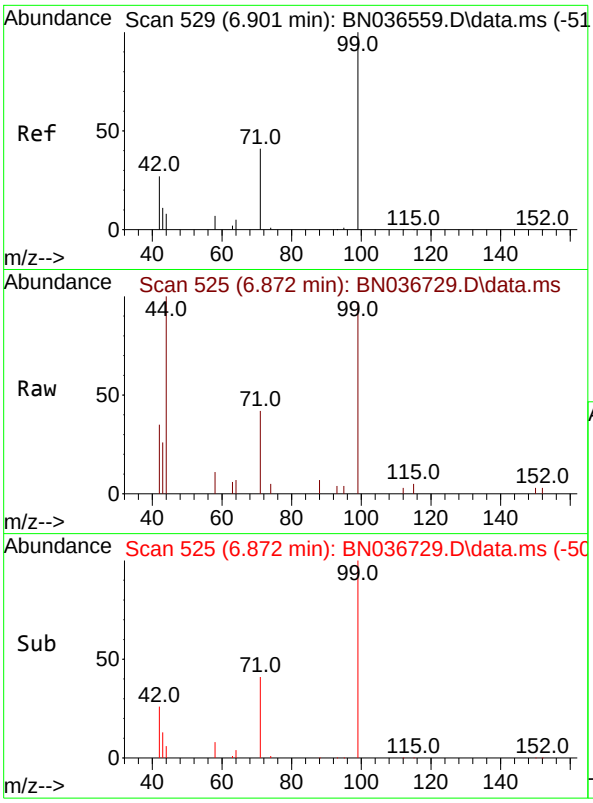


#4
2-Fluorophenol
Concen: 0.377 ng
RT: 5.290 min Scan# 306
Delta R.T. -0.022 min
Lab File: BN036729.D
Acq: 27 Mar 2025 09:49

Tgt Ion:112 Resp: 2542

Ion	Ratio	Lower	Upper
112	100		
64	69.3	53.1	79.7
63	41.4	31.8	47.8



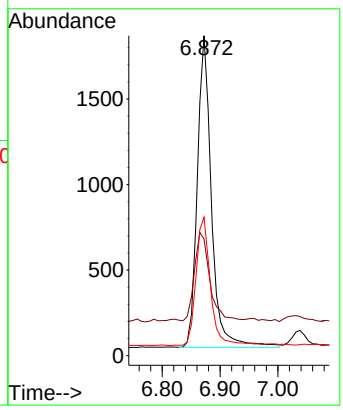


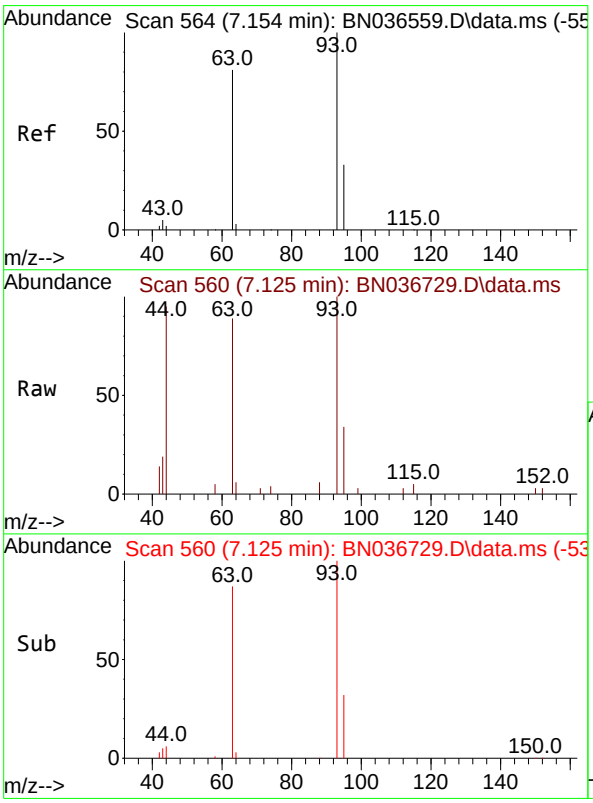
#5
Phenol-d6
Concen: 0.373 ng
RT: 6.872 min Scan# 5
Delta R.T. -0.029 min
Lab File: BN036729.D
Acq: 27 Mar 2025 09:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 99 Resp: 3104

Ion	Ratio	Lower	Upper
99	100		
42	30.5	26.5	39.7
71	42.2	34.1	51.1

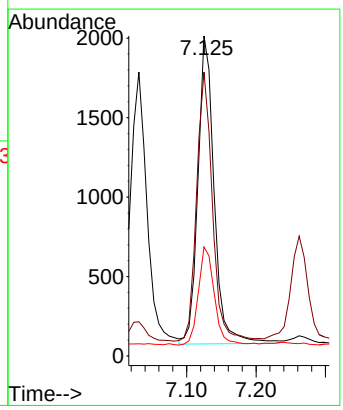


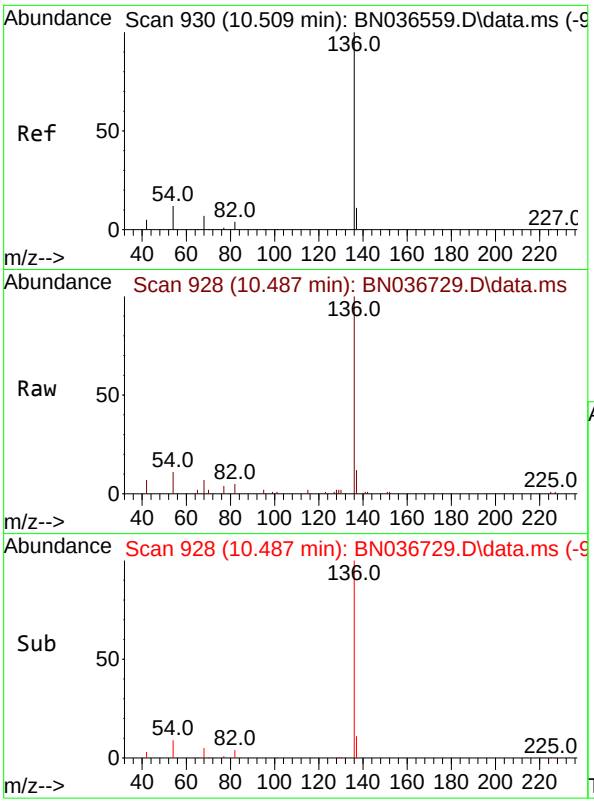


#6
bis(2-Chloroethyl)ether
Concen: 0.367 ng
RT: 7.125 min Scan# 560
Delta R.T. -0.029 min
Lab File: BN036729.D
Acq: 27 Mar 2025 09:49

Tgt Ion: 93 Resp: 3157

Ion	Ratio	Lower	Upper
93	100		
63	84.6	67.7	101.5
95	31.4	25.6	38.4



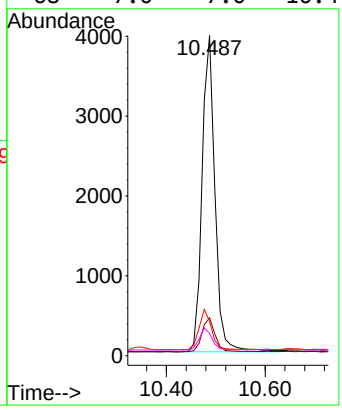


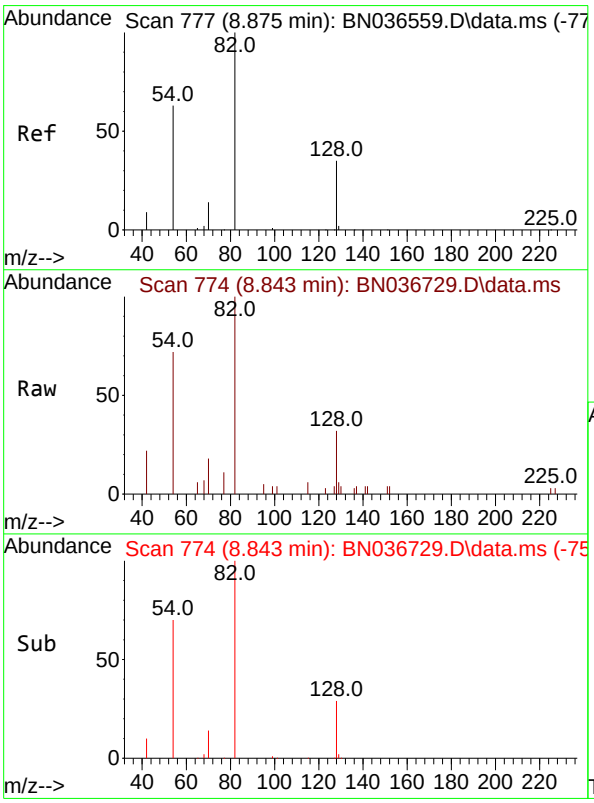
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.487 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN036729.D
Acq: 27 Mar 2025 09:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:136 Resp: 7150

Ion	Ratio	Lower	Upper
136	100		
137	11.9	10.3	15.5
54	10.8	11.5	17.3#
68	7.0	7.0	10.4

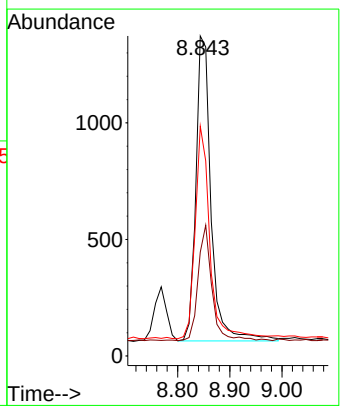


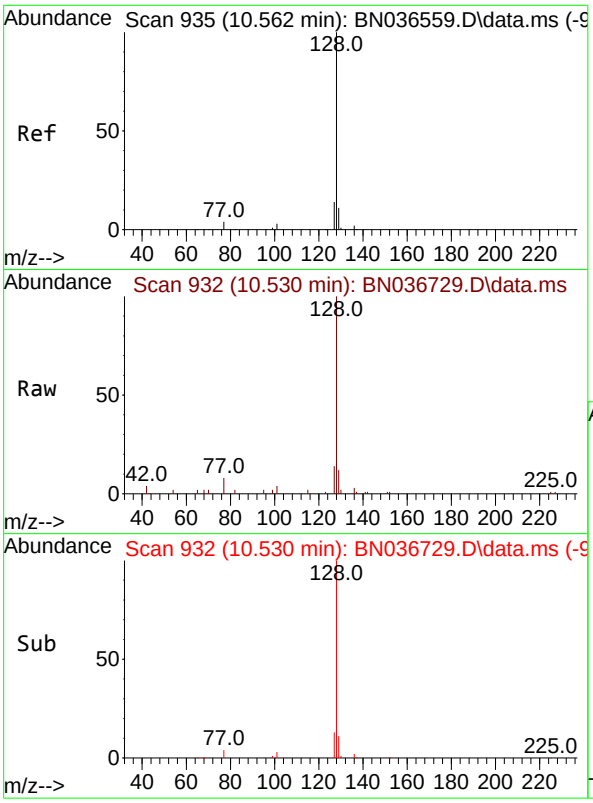


#8
Nitrobenzene-d5
Concen: 0.341 ng
RT: 8.843 min Scan# 774
Delta R.T. -0.032 min
Lab File: BN036729.D
Acq: 27 Mar 2025 09:49

Tgt Ion: 82 Resp: 2653

Ion	Ratio	Lower	Upper
82	100		
128	32.5	30.6	45.8
54	71.8	52.2	78.4



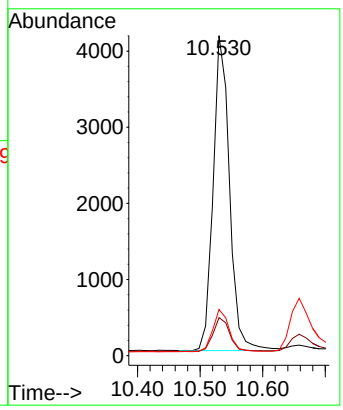


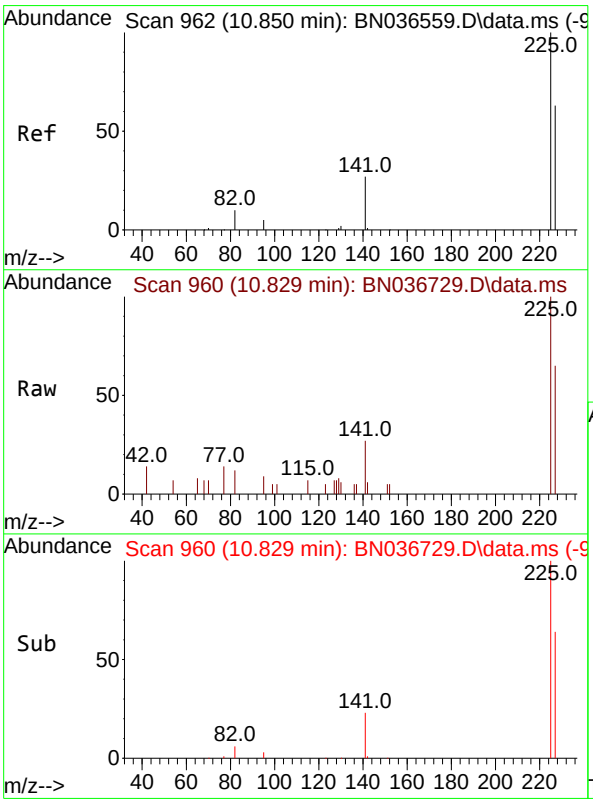
#9
Naphthalene
Concen: 0.357 ng
RT: 10.530 min Scan# 9
Delta R.T. -0.032 min
Lab File: BN036729.D
Acq: 27 Mar 2025 09:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:128 Resp: 7512

Ion	Ratio	Lower	Upper
128	100		
129	11.9	9.8	14.6
127	14.4	11.8	17.8

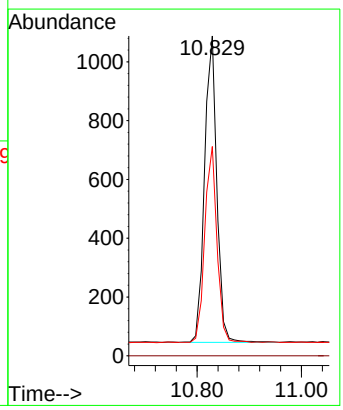


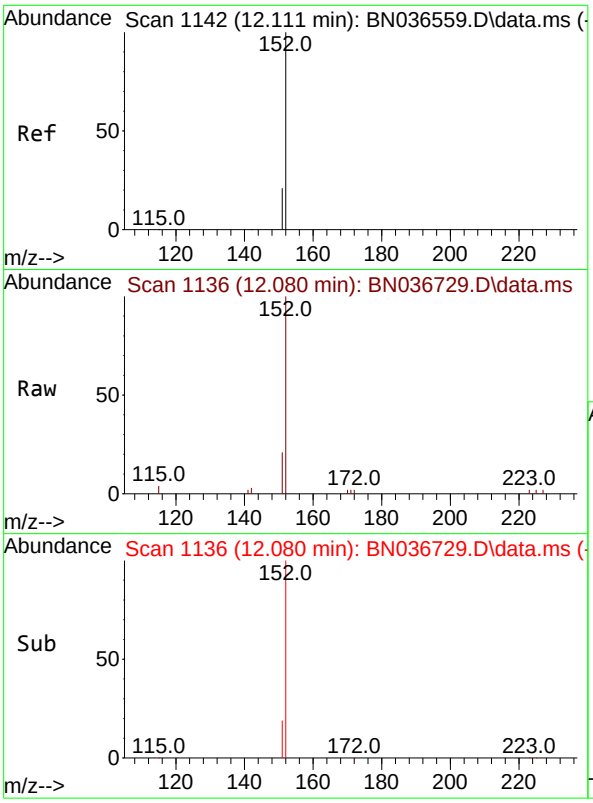


#10
Hexachlorobutadiene
Concen: 0.343 ng
RT: 10.829 min Scan# 960
Delta R.T. -0.021 min
Lab File: BN036729.D
Acq: 27 Mar 2025 09:49

Tgt Ion:225 Resp: 1698

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.4	51.8	77.8



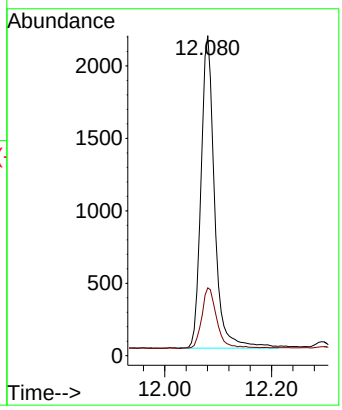


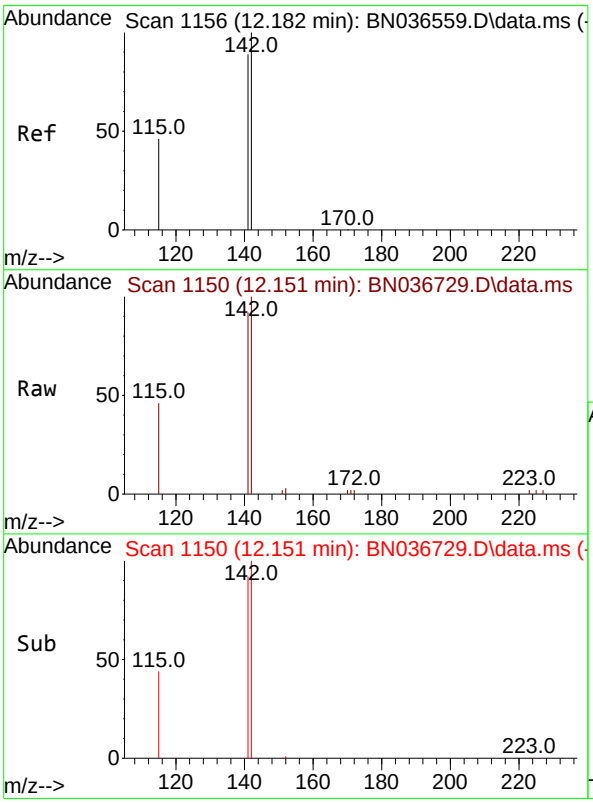
#11
2-Methylnaphthalene-d10
Concen: 0.360 ng
RT: 12.080 min Scan# 11
Delta R.T. -0.030 min
Lab File: BN036729.D
Acq: 27 Mar 2025 09:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 3831

Ion	Ratio	Lower	Upper
152	100		
151	21.6	17.0	25.6

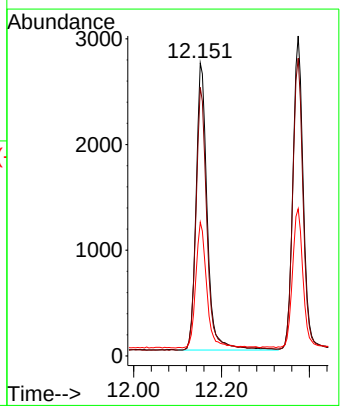


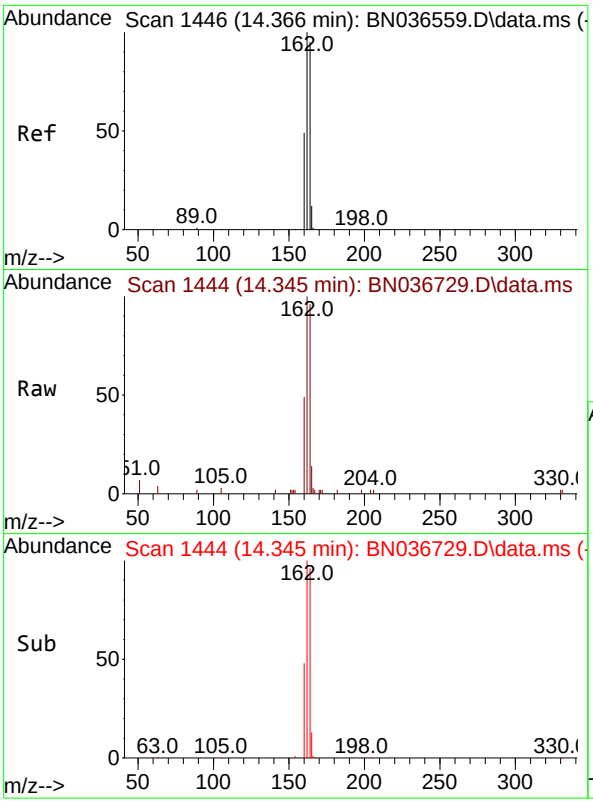


#12
2-Methylnaphthalene
Concen: 0.359 ng
RT: 12.151 min Scan# 1150
Delta R.T. -0.030 min
Lab File: BN036729.D
Acq: 27 Mar 2025 09:49

Tgt Ion:142 Resp: 4804

Ion	Ratio	Lower	Upper
142	100		
141	91.7	71.7	107.5
115	45.7	38.3	57.5



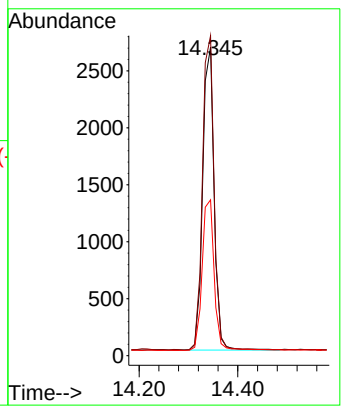


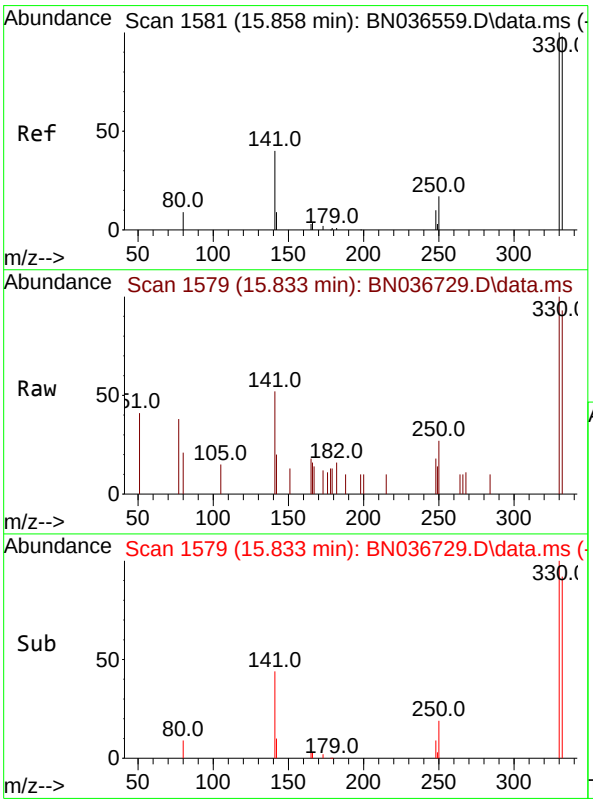
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 14
Delta R.T. -0.021 min
Lab File: BN036729.D
Acq: 27 Mar 2025 09:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:164 Resp: 4255

Ion	Ratio	Lower	Upper
164	100		
162	103.7	84.2	126.2
160	50.5	42.2	63.2

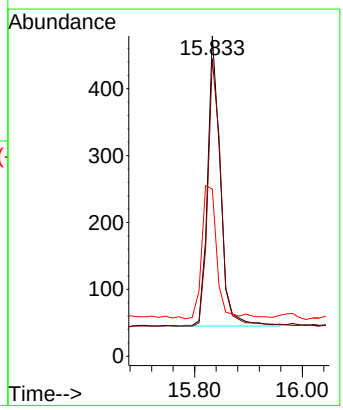


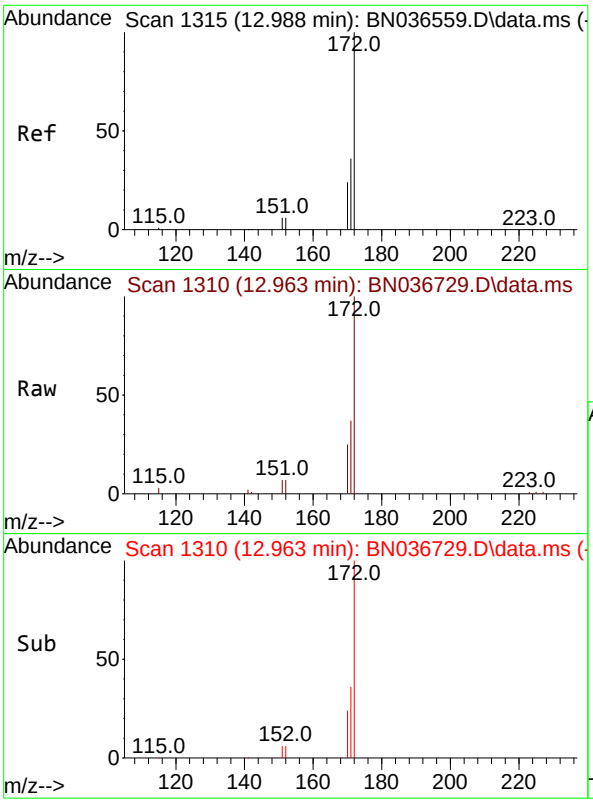


#14
2,4,6-Tribromophenol
Concen: 0.368 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.025 min
Lab File: BN036729.D
Acq: 27 Mar 2025 09:49

Tgt Ion:330 Resp: 711

Ion	Ratio	Lower	Upper
330	100		
332	95.2	75.2	112.8
141	55.1	43.4	65.2



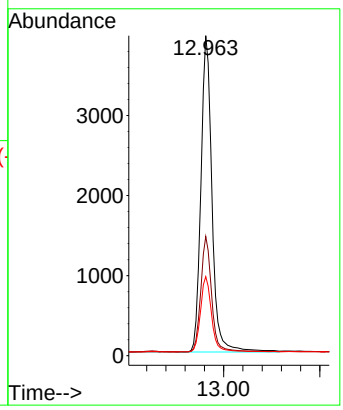


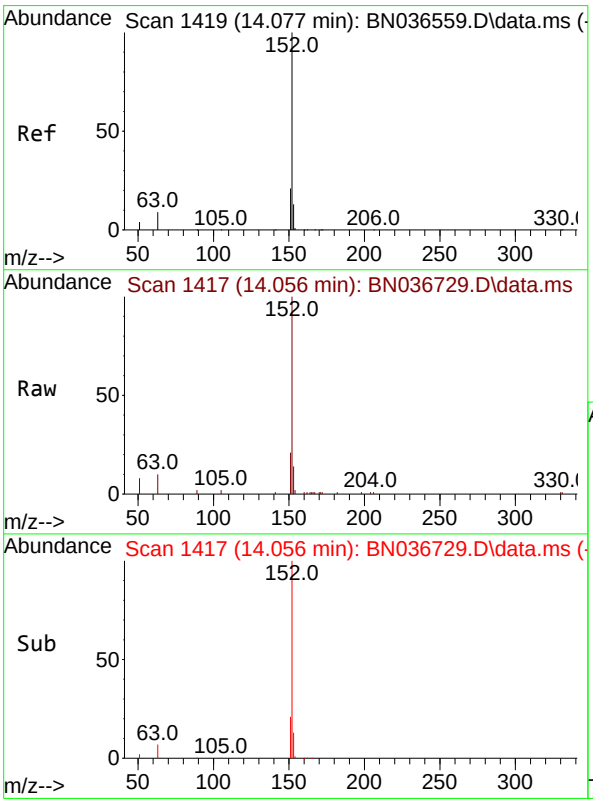
#15
2-Fluorobiphenyl
Concen: 0.343 ng
RT: 12.963 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036729.D
Acq: 27 Mar 2025 09:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:172 Resp: 8502

Ion	Ratio	Lower	Upper
172	100		
171	37.2	29.5	44.3
170	24.7	20.2	30.4

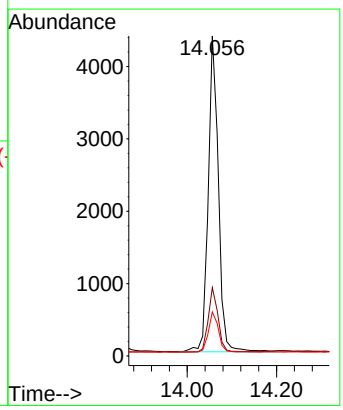


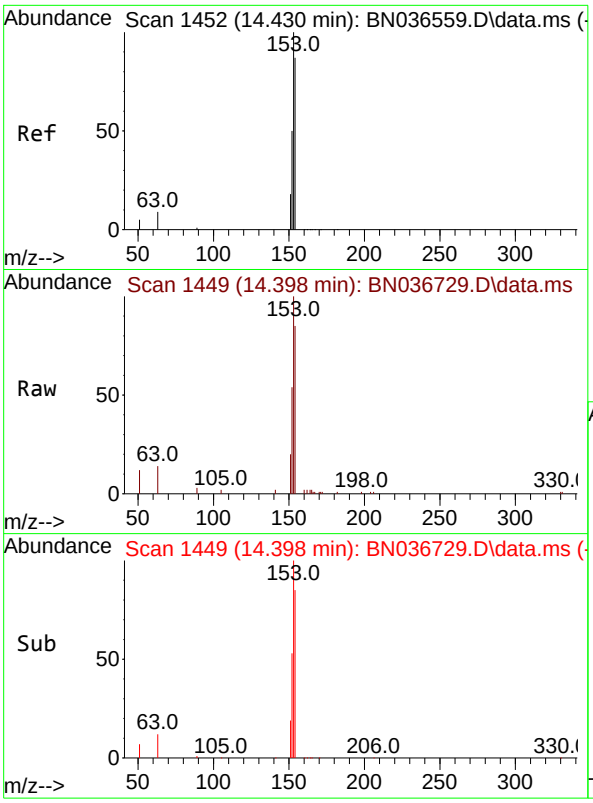


#16
Acenaphthylene
Concen: 0.341 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.021 min
Lab File: BN036729.D
Acq: 27 Mar 2025 09:49

Tgt Ion:152 Resp: 6856

Ion	Ratio	Lower	Upper
152	100		
151	19.7	16.2	24.4
153	12.8	10.6	15.8



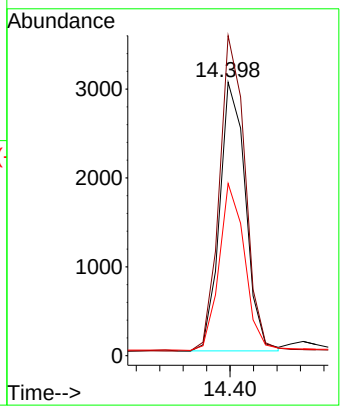


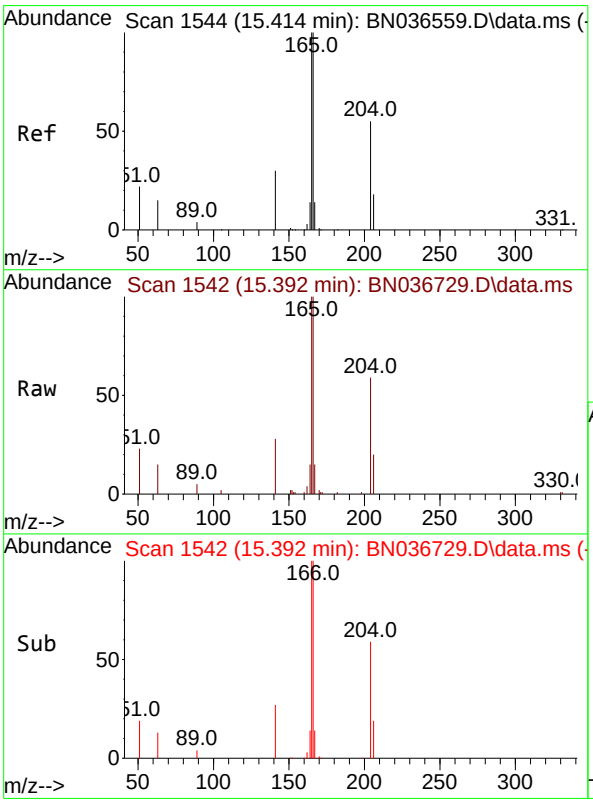
#17
Acenaphthene
Concen: 0.353 ng
RT: 14.398 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036729.D
Acq: 27 Mar 2025 09:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:154 Resp: 4636

Ion	Ratio	Lower	Upper
154	100		
153	118.1	94.1	141.1
152	62.4	49.8	74.6

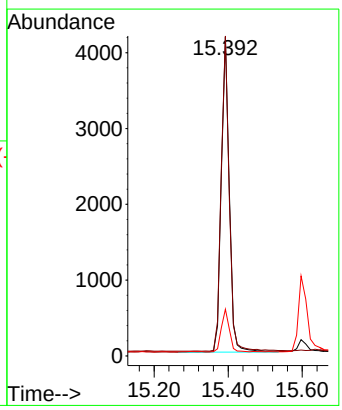


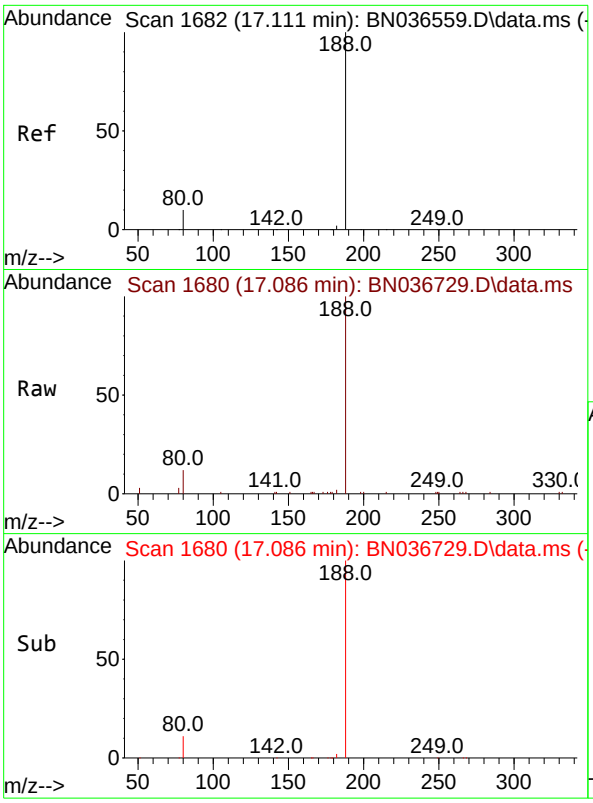


#18
Fluorene
Concen: 0.354 ng
RT: 15.392 min Scan# 1542
Delta R.T. -0.021 min
Lab File: BN036729.D
Acq: 27 Mar 2025 09:49

Tgt Ion:166 Resp: 6299

Ion	Ratio	Lower	Upper
166	100		
165	99.8	79.8	119.8
167	13.4	10.6	15.8



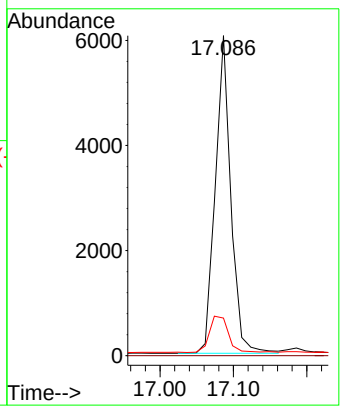


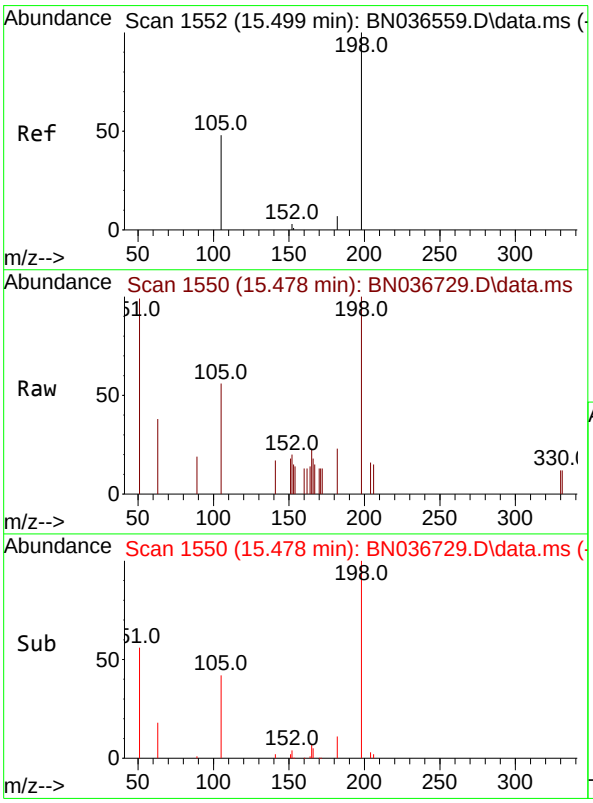
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036729.D
Acq: 27 Mar 2025 09:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:188 Resp: 8860

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.8	8.8	13.2

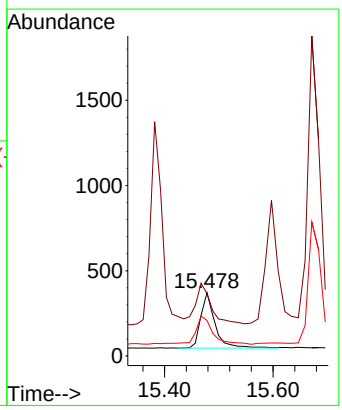


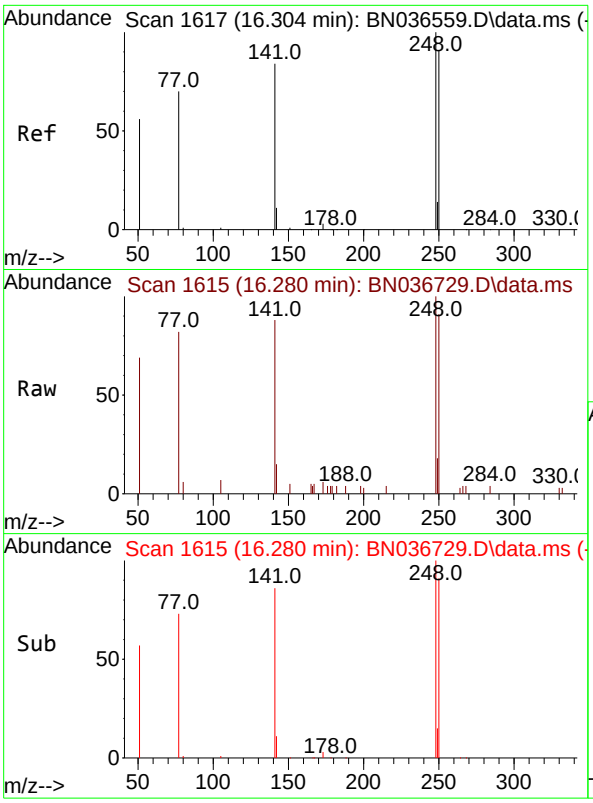


#20
4,6-Dinitro-2-methylphenol
Concen: 0.427 ng
RT: 15.478 min Scan# 1550
Delta R.T. -0.021 min
Lab File: BN036729.D
Acq: 27 Mar 2025 09:49

Tgt Ion:198 Resp: 636

Ion	Ratio	Lower	Upper
198	100		
51	98.7	107.9	161.9#
105	56.3	56.2	84.2



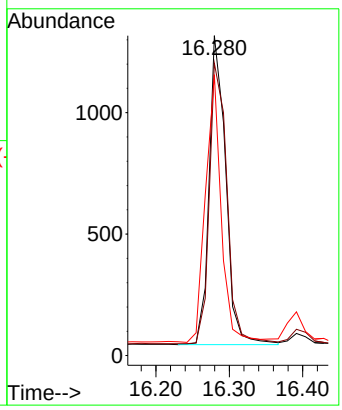


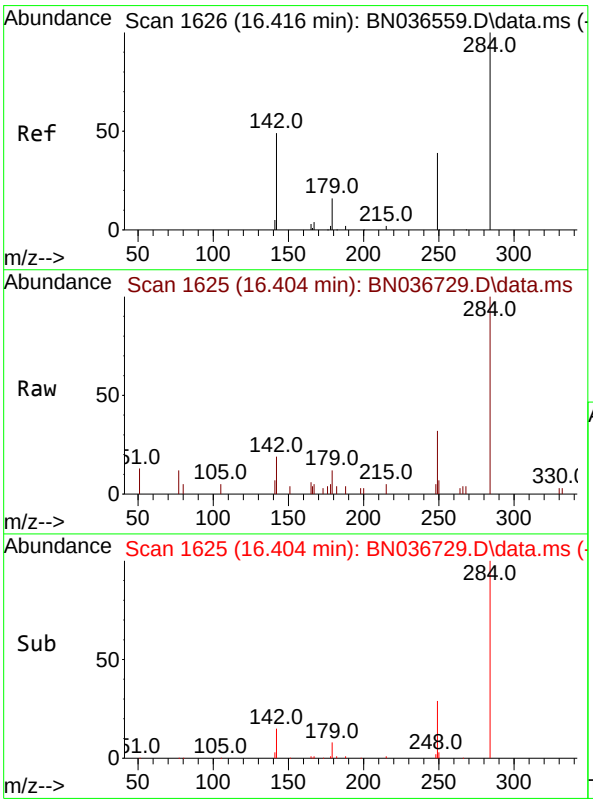
#21
4-Bromophenyl-phenylether
Concen: 0.360 ng
RT: 16.280 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036729.D
Acq: 27 Mar 2025 09:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:248 Resp: 1998

Ion	Ratio	Lower	Upper
248	100		
250	91.4	73.0	109.6
141	87.8	68.6	103.0

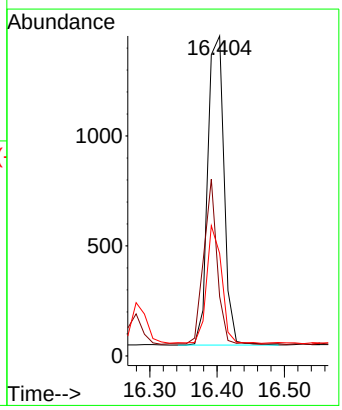


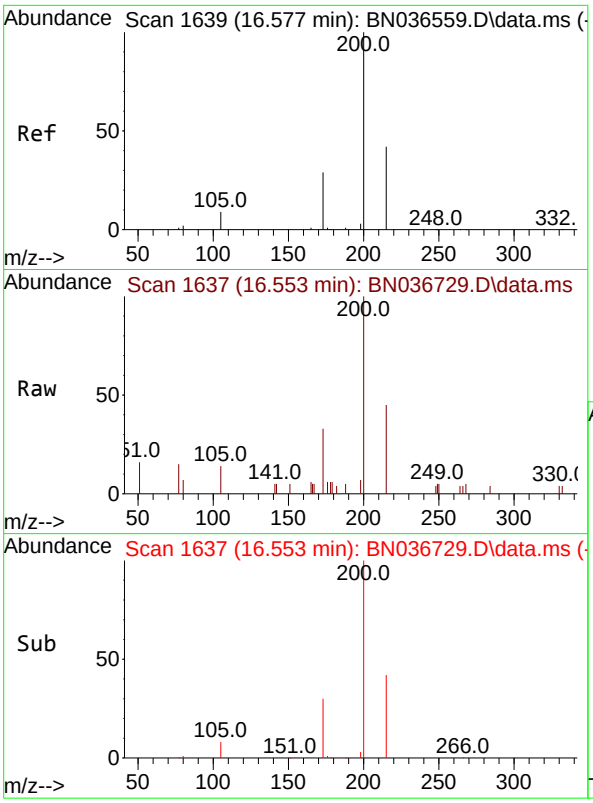


#22
Hexachlorobenzene
Concen: 0.354 ng
RT: 16.404 min Scan# 1625
Delta R.T. -0.012 min
Lab File: BN036729.D
Acq: 27 Mar 2025 09:49

Tgt Ion:284 Resp: 2370

Ion	Ratio	Lower	Upper
284	100		
142	44.0	37.0	55.4
249	35.1	28.1	42.1



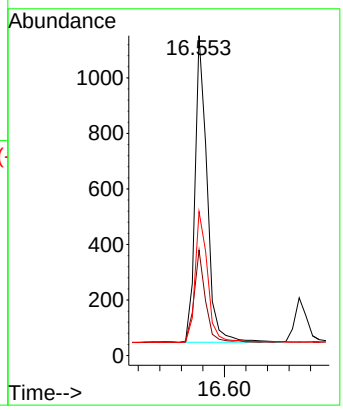


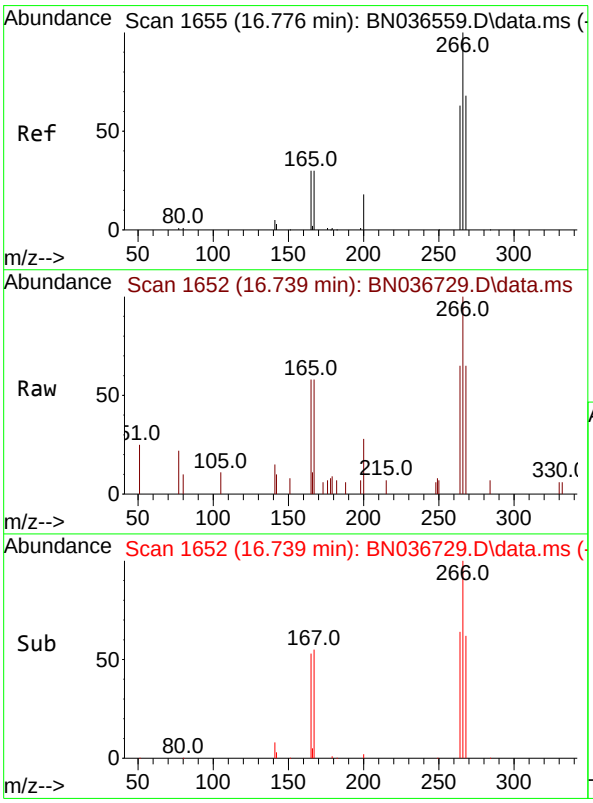
#23
Atrazine
Concen: 0.385 ng
RT: 16.553 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036729.D
Acq: 27 Mar 2025 09:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:200 Resp: 1715

Ion	Ratio	Lower	Upper
200	100		
173	33.0	27.3	40.9
215	45.1	36.8	55.2

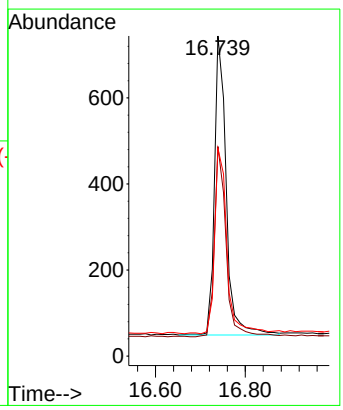


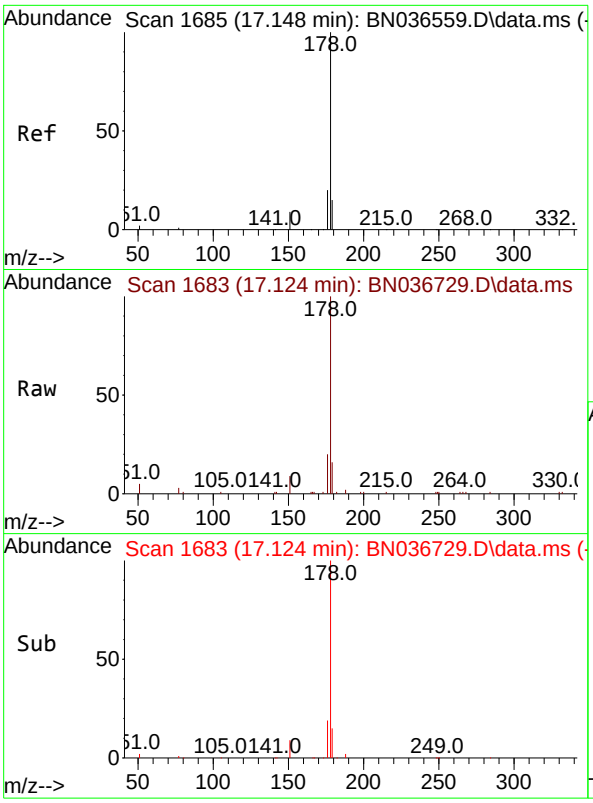


#24
Pentachlorophenol
Concen: 0.412 ng
RT: 16.739 min Scan# 1652
Delta R.T. -0.037 min
Lab File: BN036729.D
Acq: 27 Mar 2025 09:49

Tgt Ion:266 Resp: 1259

Ion	Ratio	Lower	Upper
266	100		
264	63.4	49.6	74.4
268	65.0	50.9	76.3



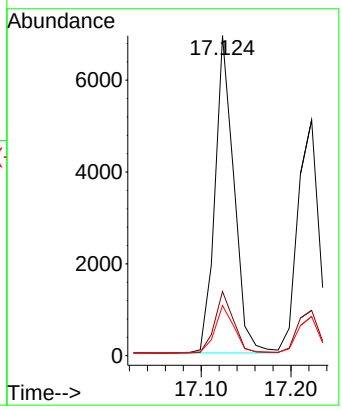


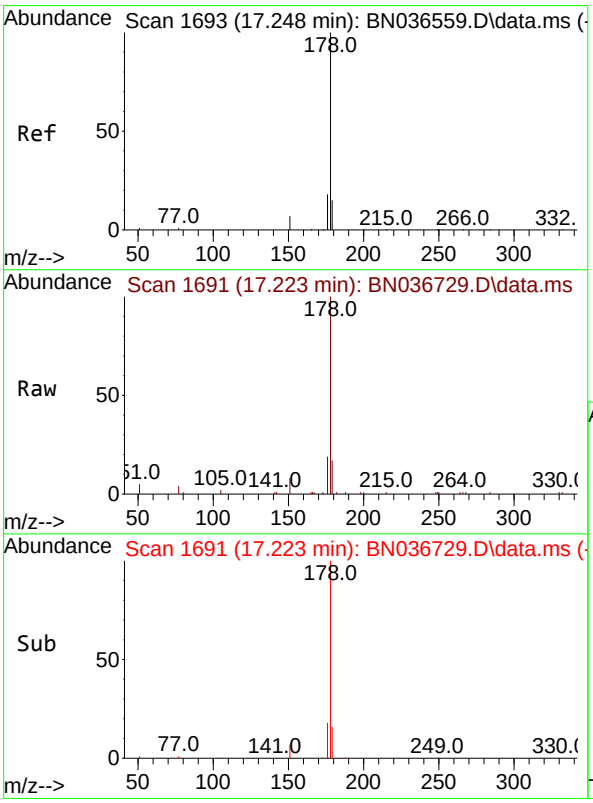
#25
Phenanthrene
Concen: 0.384 ng
RT: 17.124 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036729.D
Acq: 27 Mar 2025 09:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:178 Resp: 10196

Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.9	23.9
179	15.0	12.2	18.4

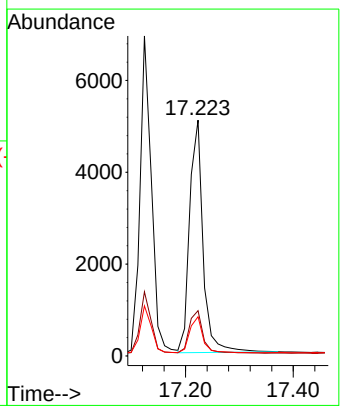


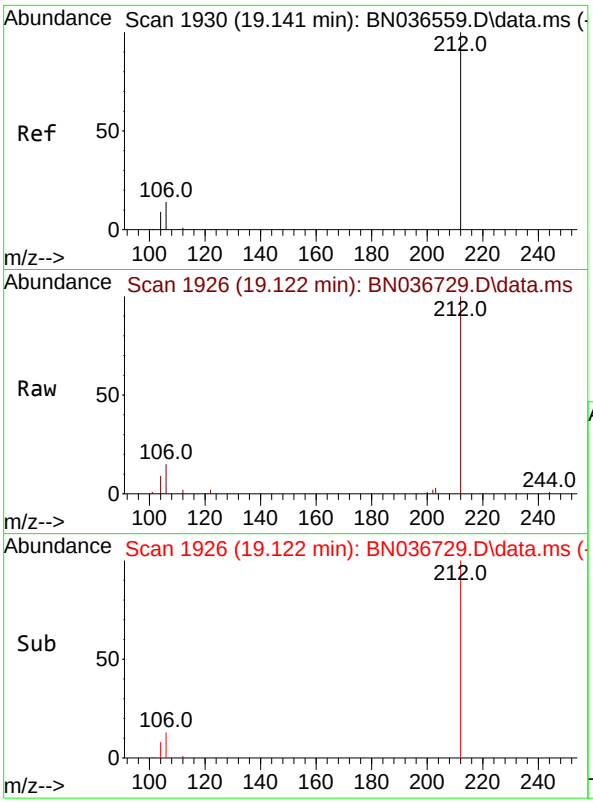


#26
Anthracene
Concen: 0.367 ng
RT: 17.223 min Scan# 1691
Delta R.T. -0.025 min
Lab File: BN036729.D
Acq: 27 Mar 2025 09:49

Tgt Ion:178 Resp: 8794

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.4	23.2
179	15.2	12.6	18.8



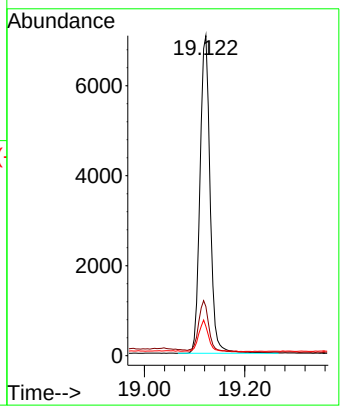


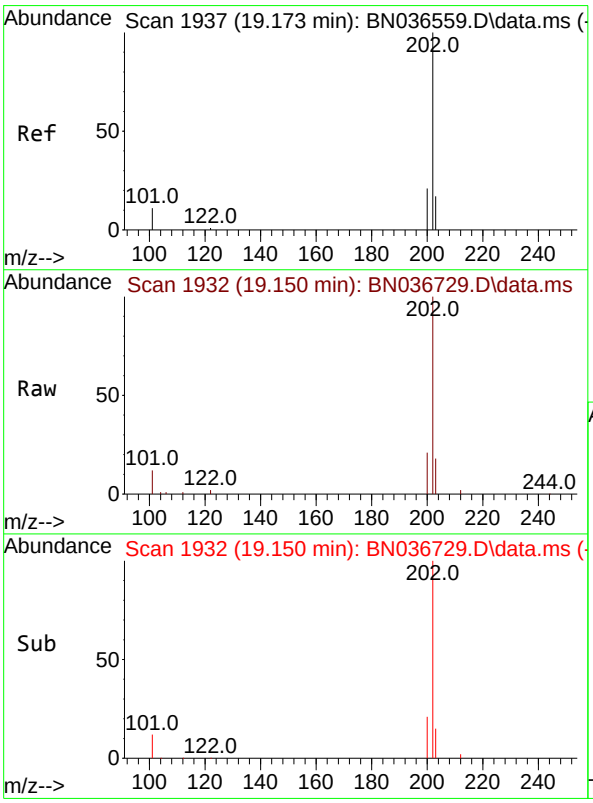
#27
Fluoranthene-d10
Concen: 0.433 ng
RT: 19.122 min Scan# 1
Delta R.T. -0.019 min
Lab File: BN036729.D
Acq: 27 Mar 2025 09:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:212 Resp: 9834

Ion	Ratio	Lower	Upper
212	100		
106	16.6	11.8	17.6
104	9.6	7.3	10.9

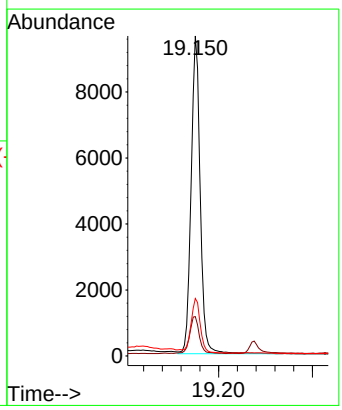


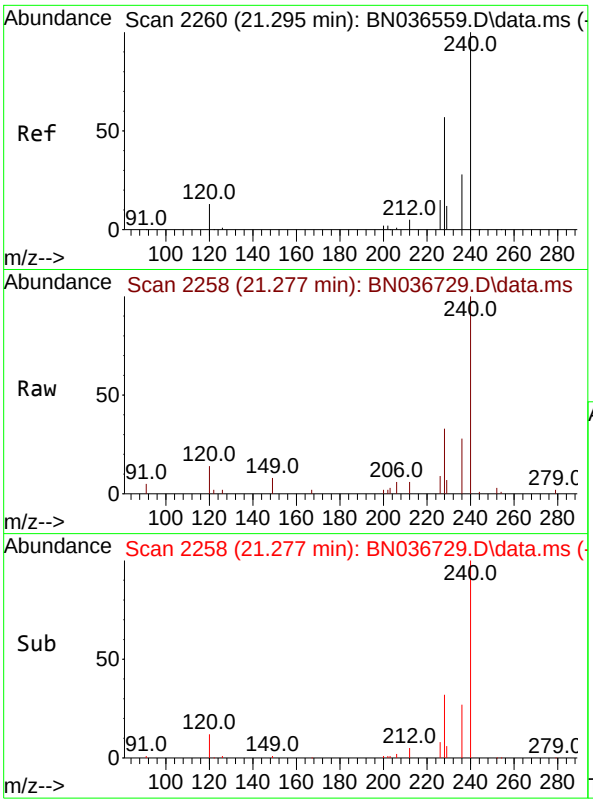


#28
Fluoranthene
Concen: 0.435 ng
RT: 19.150 min Scan# 1932
Delta R.T. -0.023 min
Lab File: BN036729.D
Acq: 27 Mar 2025 09:49

Tgt Ion:202 Resp: 12984

Ion	Ratio	Lower	Upper
202	100		
101	12.1	9.4	14.0
203	17.4	13.5	20.3



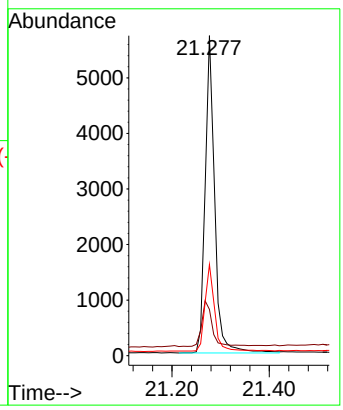


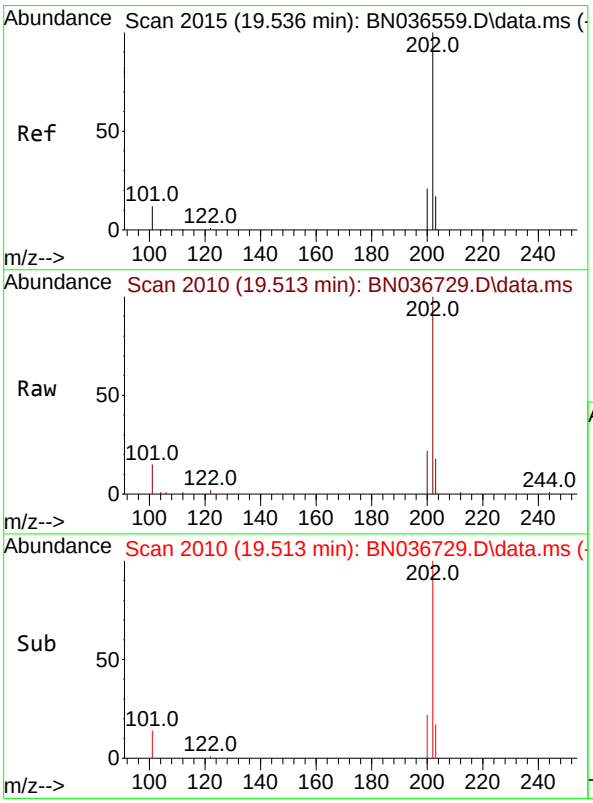
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036729.D
Acq: 27 Mar 2025 09:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:240 Resp: 7759

Ion	Ratio	Lower	Upper
240	100		
120	14.5	14.6	22.0#
236	28.5	24.1	36.1

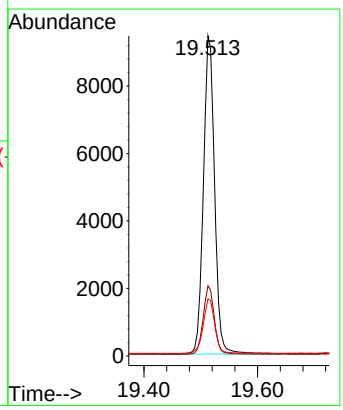


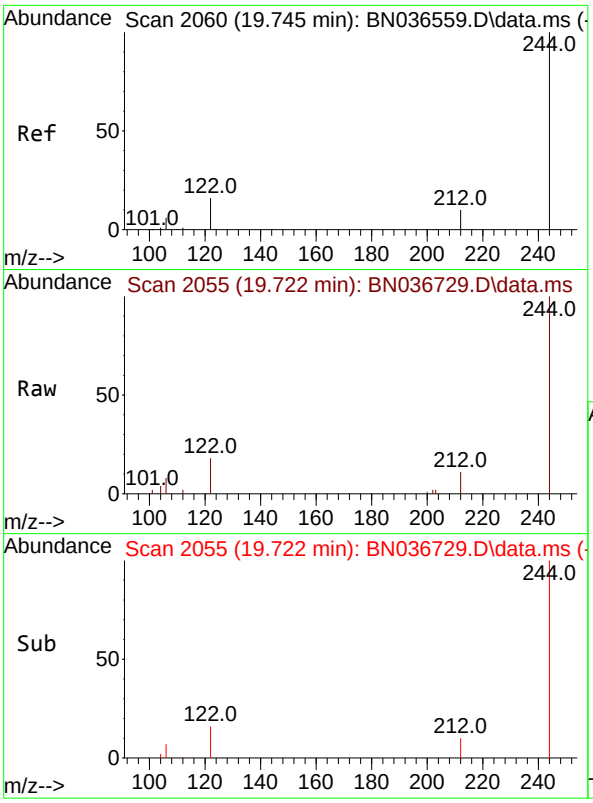


#30
Pyrene
Concen: 0.340 ng
RT: 19.513 min Scan# 2010
Delta R.T. -0.023 min
Lab File: BN036729.D
Acq: 27 Mar 2025 09:49

Tgt Ion:202 Resp: 12887

Ion	Ratio	Lower	Upper
202	100		
200	21.5	17.1	25.7
203	17.9	14.1	21.1



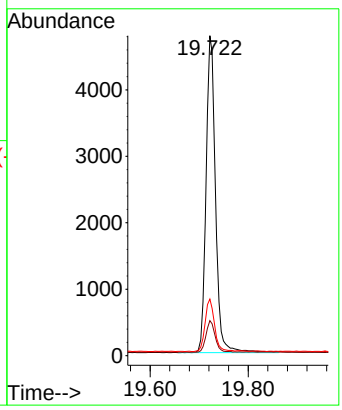


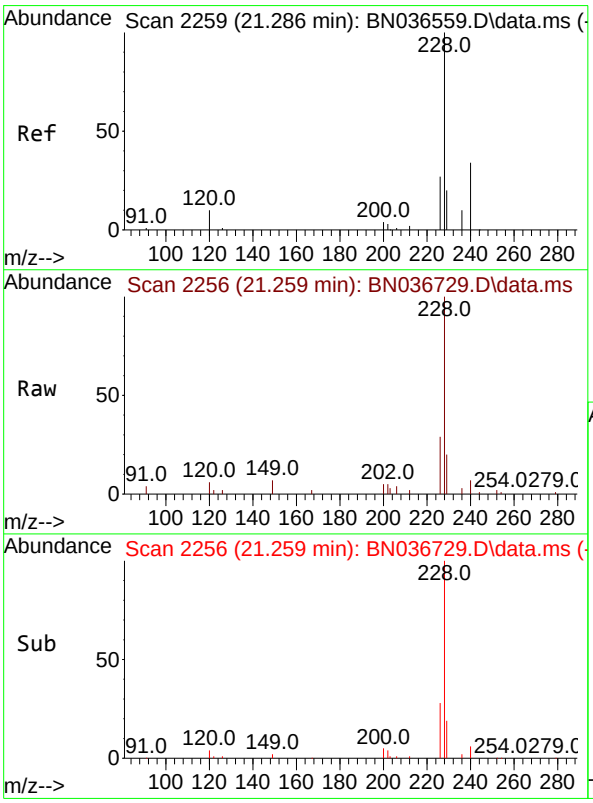
#31
Terphenyl-d14
Concen: 0.342 ng
RT: 19.722 min Scan# 2
Delta R.T. -0.023 min
Lab File: BN036729.D
Acq: 27 Mar 2025 09:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:244 Resp: 6361

Ion	Ratio	Lower	Upper
244	100		
212	10.9	9.6	14.4
122	17.7	13.9	20.9

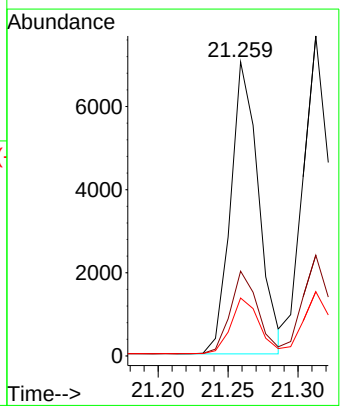


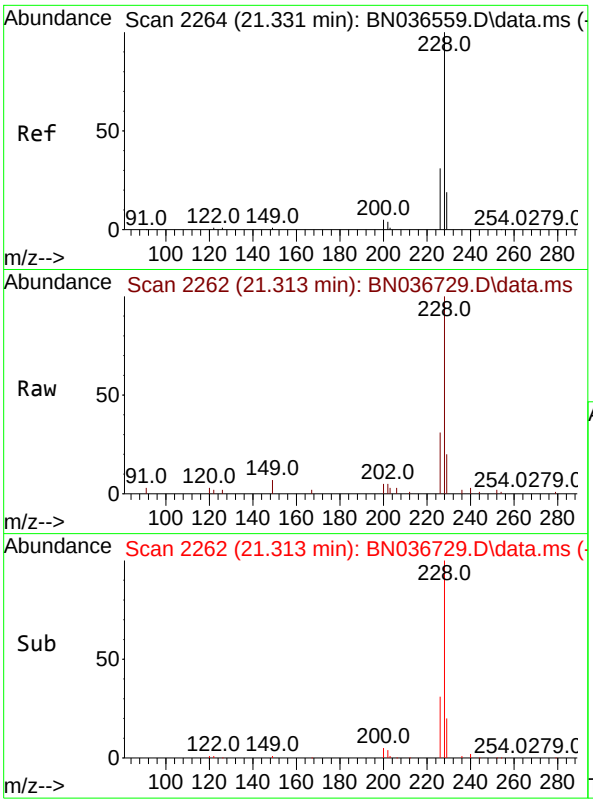


#32
Benzo(a)anthracene
Concen: 0.362 ng
RT: 21.259 min Scan# 2256
Delta R.T. -0.027 min
Lab File: BN036729.D
Acq: 27 Mar 2025 09:49

Tgt Ion:228 Resp: 9768

Ion	Ratio	Lower	Upper
228	100		
226	28.8	22.5	33.7
229	19.7	16.6	25.0



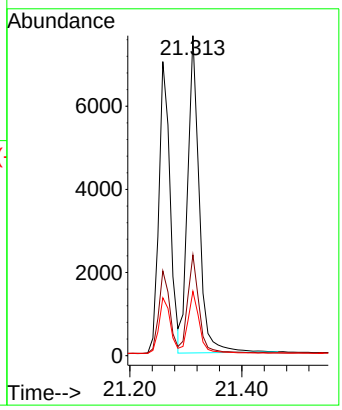


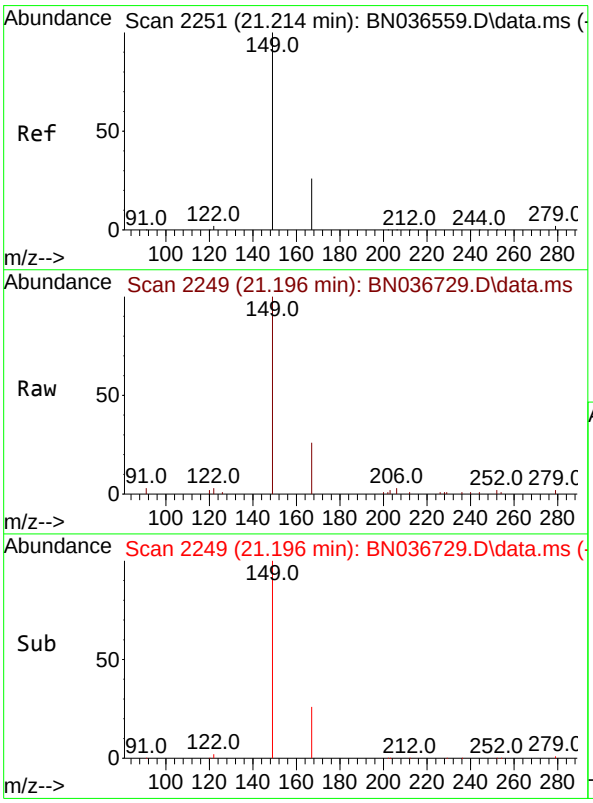
#33
Chrysene
Concen: 0.370 ng
RT: 21.313 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036729.D
Acq: 27 Mar 2025 09:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:228 Resp: 10899

Ion	Ratio	Lower	Upper
228	100		
226	31.5	25.3	37.9
229	20.1	15.8	23.8

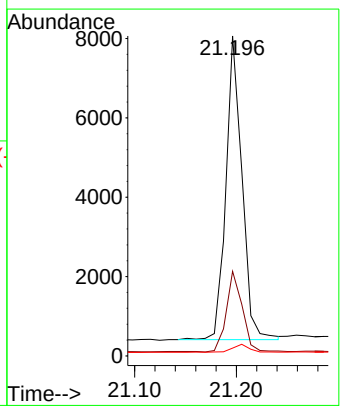


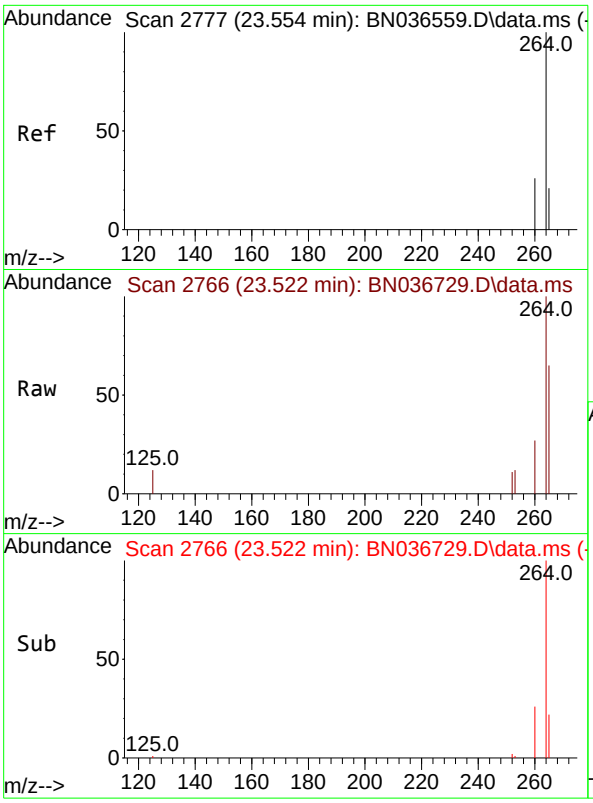


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.436 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036729.D
Acq: 27 Mar 2025 09:49

Tgt Ion:149 Resp: 8379

Ion	Ratio	Lower	Upper
149	100		
167	26.5	20.7	31.1
279	2.8	3.6	5.4#



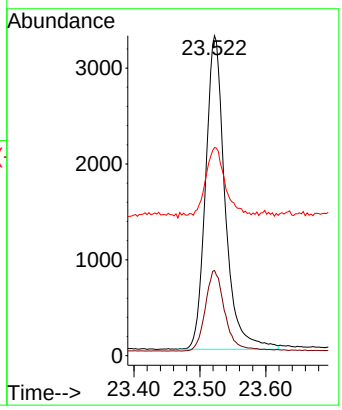


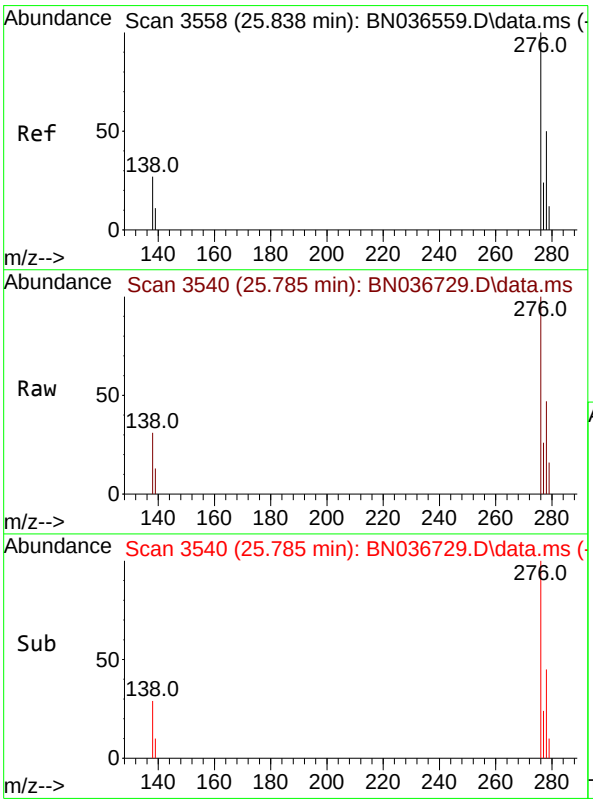
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.522 min Scan# 2
Delta R.T. -0.032 min
Lab File: BN036729.D
Acq: 27 Mar 2025 09:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:264 Resp: 6723

Ion	Ratio	Lower	Upper
264	100		
260	26.6	22.6	33.8
265	65.0	88.1	132.1#

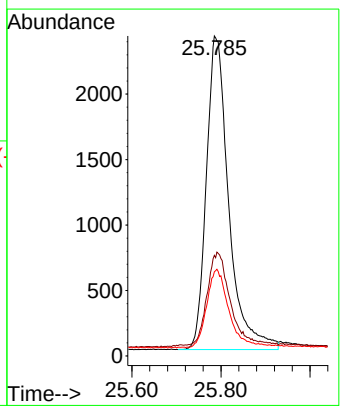


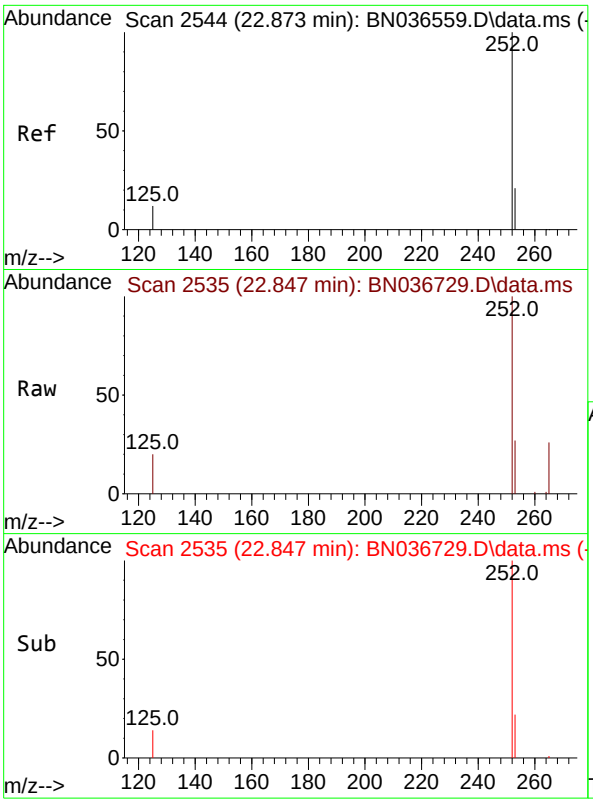


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.345 ng
RT: 25.785 min Scan# 3540
Delta R.T. -0.053 min
Lab File: BN036729.D
Acq: 27 Mar 2025 09:49

Tgt Ion:276 Resp: 8360

Ion	Ratio	Lower	Upper
276	100		
138	29.6	23.4	35.2
277	24.6	20.0	30.0



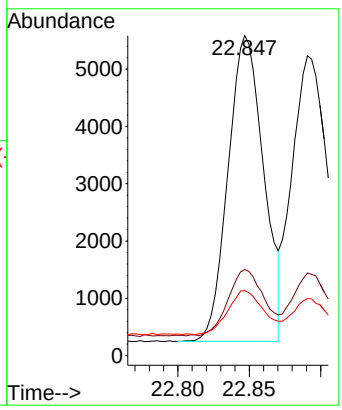


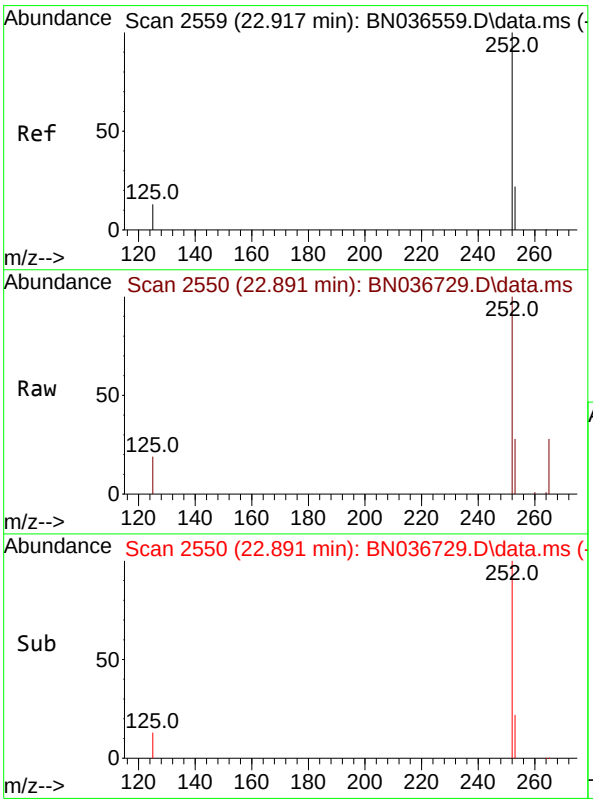
#37
Benzo(b)fluoranthene
Concen: 0.377 ng
RT: 22.847 min Scan# 2
Delta R.T. -0.026 min
Lab File: BN036729.D
Acq: 27 Mar 2025 09:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 9234

Ion	Ratio	Lower	Upper
252	100		
253	27.0	23.9	35.9
125	20.3	17.4	26.2

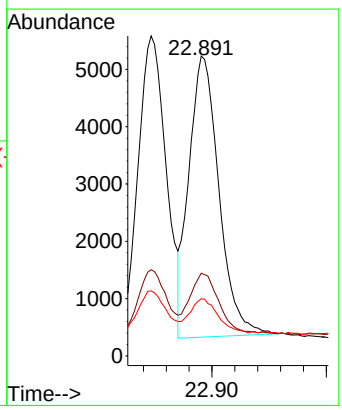


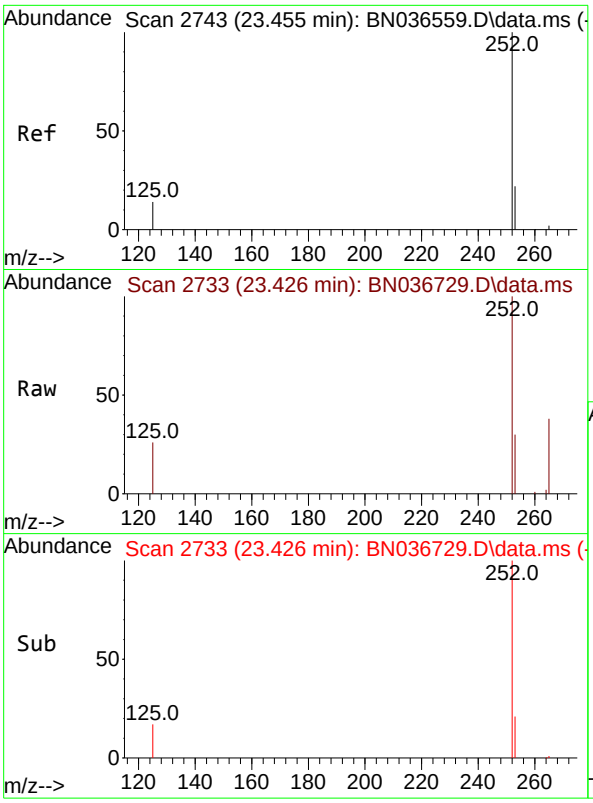


#38
Benzo(k)fluoranthene
Concen: 0.349 ng
RT: 22.891 min Scan# 2550
Delta R.T. -0.026 min
Lab File: BN036729.D
Acq: 27 Mar 2025 09:49

Tgt Ion:252 Resp: 8958

Ion	Ratio	Lower	Upper
252	100		
253	27.6	24.6	36.8
125	19.0	17.8	26.8



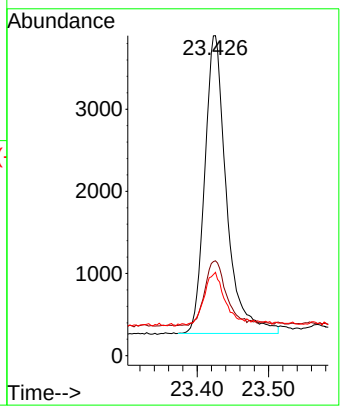


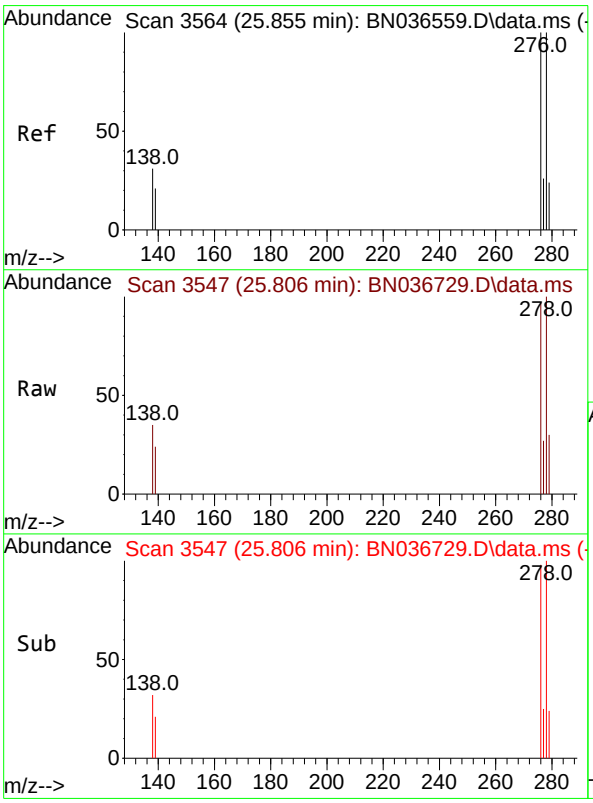
#39
Benzo(a)pyrene
Concen: 0.373 ng
RT: 23.426 min Scan# 2
Delta R.T. -0.029 min
Lab File: BN036729.D
Acq: 27 Mar 2025 09:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 7680

Ion	Ratio	Lower	Upper
252	100		
253	29.7	27.8	41.8
125	26.0	22.7	34.1

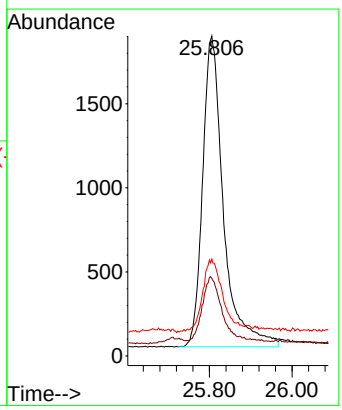


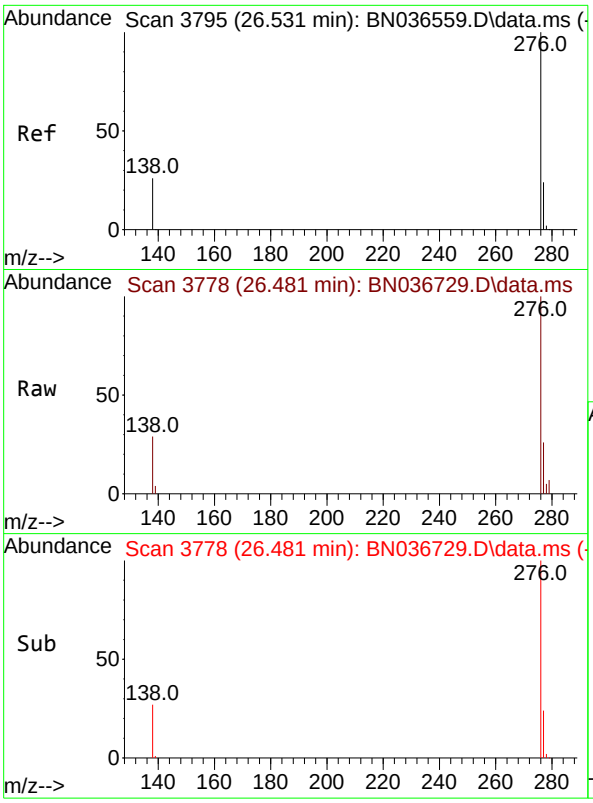


#40
Dibenzo(a,h)anthracene
Concen: 0.343 ng
RT: 25.806 min Scan# 3547
Delta R.T. -0.050 min
Lab File: BN036729.D
Acq: 27 Mar 2025 09:49

Tgt Ion:278 Resp: 6473

Ion	Ratio	Lower	Upper
278	100		
139	24.3	20.8	31.2
279	30.3	28.8	43.2



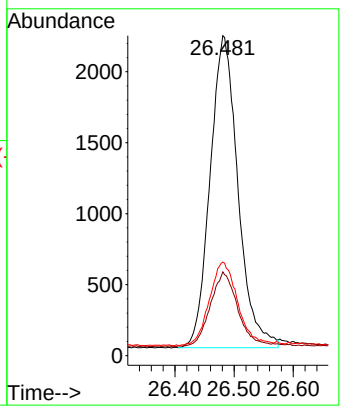


#41
Benzo(g,h,i)perylene
Concen: 0.333 ng
RT: 26.481 min Scan# 3
Delta R.T. -0.050 min
Lab File: BN036729.D
Acq: 27 Mar 2025 09:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:276 Resp: 7201

Ion	Ratio	Lower	Upper
276	100		
277	26.2	22.2	33.4
138	29.2	24.1	36.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036729.D
Acq On : 27 Mar 2025 09:49
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Mar 27 10:52:22 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 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	131	-0.02
2		1,4-Dioxane	0.444	0.426	4.1	112	-0.01
3		n-Nitrosodimethylamine	0.898	0.777	13.5	109	-0.01
4	S	2-Fluorophenol	0.932	0.879	5.7	117	-0.02
5	S	Phenol-d6	1.152	1.073	6.9	125	-0.03
6		bis(2-Chloroethyl)ether	1.190	1.092	8.2	121	-0.03
7	I	Naphthalene-d8	1.000	1.000	0.0	140	-0.02
8	S	Nitrobenzene-d5	0.435	0.371	14.7	126	-0.03
9		Naphthalene	1.177	1.051	10.7	122	-0.03
10		Hexachlorobutadiene	0.277	0.237	14.4	113	-0.02
11	SURR	2-Methylnaphthalene-d10	0.595	0.536	9.9	124	-0.03
12		2-Methylnaphthalene	0.749	0.672	10.3	123	-0.03
13	I	Acenaphthene-d10	1.000	1.000	0.0	141	-0.02
14	S	2,4,6-Tribromophenol	0.182	0.167	8.2	125	-0.02
15	S	2-Fluorobiphenyl	2.327	1.998	14.1	117	-0.03
16		Acenaphthylene	1.888	1.611	14.7	117	-0.02
17		Acenaphthene	1.236	1.090	11.8	120	-0.03
18		Fluorene	1.672	1.480	11.5	118	-0.02
19	I	Phenanthrene-d10	1.000	1.000	0.0	148	-0.02
20		4,6-Dinitro-2-methylphenol	0.086	0.072	16.3	138	-0.02
21		4-Bromophenyl-phenylether	0.251	0.226	10.0	122	-0.02
22		Hexachlorobenzene	0.303	0.267	11.9	117	-0.01
23		Atrazine	0.201	0.194	3.5	134	-0.02
24		Pentachlorophenol	0.138	0.142	-2.9	153#	-0.04
25		Phenanthrene	1.200	1.151	4.1	131	-0.02
26		Anthracene	1.083	0.993	8.3	128	-0.02
27	SURR	Fluoranthene-d10	1.025	1.110	-8.3	147	-0.02
28		Fluoranthene	1.348	1.465	-8.7	149	-0.02
29	I	Chrysene-d12	1.000	1.000	0.0	189#	-0.02
30		Pyrene	1.956	1.661	15.1	147	-0.02
31	S	Terphenyl-d14	0.958	0.820	14.4	151#	-0.02
32		Benzo(a)anthracene	1.391	1.259	9.5	165#	-0.03
33		Chrysene	1.520	1.405	7.6	165#	-0.02
34		Bis(2-ethylhexyl)phthalate	0.990	1.080	-9.1	195#	-0.02
35	I	Perylene-d12	1.000	1.000	0.0	190#	-0.03
36		Indeno(1,2,3-cd)pyrene	1.444	1.243	13.9	153#	-0.05
37		Benzo(b)fluoranthene	1.456	1.373	5.7	169#	-0.03
38		Benzo(k)fluoranthene	1.527	1.332	12.8	156#	-0.03
39	C	Benzo(a)pyrene	1.226	1.142	6.9	167#	-0.03
40		Dibenzo(a,h)anthracene	1.124	0.963	14.3	157#	-0.05
41		Benzo(g,h,i)perylene	1.286	1.071	16.7	147	-0.05

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036729.D
Acq On : 27 Mar 2025 09:49
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Mar 27 10:52:22 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 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	131	-0.02
2		1,4-Dioxane	0.400	0.384	4.0	112	-0.01
3		n-Nitrosodimethylamine	0.400	0.346	13.5	109	-0.01
4	S	2-Fluorophenol	0.400	0.377	5.8	117	-0.02
5	S	Phenol-d6	0.400	0.373	6.8	125	-0.03
6		bis(2-Chloroethyl)ether	0.400	0.367	8.3	121	-0.03
7	I	Naphthalene-d8	0.400	0.400	0.0	140	-0.02
8	S	Nitrobenzene-d5	0.400	0.341	14.8	126	-0.03
9		Naphthalene	0.400	0.357	10.8	122	-0.03
10		Hexachlorobutadiene	0.400	0.343	14.2	113	-0.02
11	SURR	2-Methylnaphthalene-d10	0.400	0.360	10.0	124	-0.03
12		2-Methylnaphthalene	0.400	0.359	10.3	123	-0.03
13	I	Acenaphthene-d10	0.400	0.400	0.0	141	-0.02
14	S	2,4,6-Tribromophenol	0.400	0.368	8.0	125	-0.02
15	S	2-Fluorobiphenyl	0.400	0.343	14.2	117	-0.03
16		Acenaphthylene	0.400	0.341	14.8	117	-0.02
17		Acenaphthene	0.400	0.353	11.8	120	-0.03
18		Fluorene	0.400	0.354	11.5	118	-0.02
19	I	Phenanthrene-d10	0.400	0.400	0.0	148	-0.02
20		4,6-Dinitro-2-methylphenol	0.400	0.427	-6.7	138	-0.02
21		4-Bromophenyl-phenylether	0.400	0.360	10.0	122	-0.02
22		Hexachlorobenzene	0.400	0.354	11.5	117	-0.01
23		Atrazine	0.400	0.385	3.8	134	-0.02
24		Pentachlorophenol	0.400	0.412	-3.0	153	-0.04
25		Phenanthrene	0.400	0.384	4.0	131	-0.02
26		Anthracene	0.400	0.367	8.3	128	-0.02
27	SURR	Fluoranthene-d10	0.400	0.433	-8.2	147	-0.02
28		Fluoranthene	0.400	0.435	-8.7	149	-0.02
29	I	Chrysene-d12	0.400	0.400	0.0	189	-0.02
30		Pyrene	0.400	0.340	15.0	147	-0.02
31	S	Terphenyl-d14	0.400	0.342	14.5	151	-0.02
32		Benzo(a)anthracene	0.400	0.362	9.5	165	-0.03
33		Chrysene	0.400	0.370	7.5	165	-0.02
34		Bis(2-ethylhexyl)phthalate	0.400	0.436	-9.0	195	-0.02
35	I	Perylene-d12	0.400	0.400	0.0	190	-0.03
36		Indeno(1,2,3-cd)pyrene	0.400	0.345	13.8	153	-0.05
37		Benzo(b)fluoranthene	0.400	0.377	5.8	169	-0.03
38		Benzo(k)fluoranthene	0.400	0.349	12.8	156	-0.03
39	C	Benzo(a)pyrene	0.400	0.373	6.8	167	-0.03
40		Dibenzo(a,h)anthracene	0.400	0.343	14.2	157	-0.05
41		Benzo(g,h,i)perylene	0.400	0.333	16.8	147	-0.05

(#) = 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: TETR06

Lab Code: CHEM Case No.: Q1621 SAS No.: Q1621 SDG No.: Q1621

Instrument ID: BNA_N Calibration Date/Time: 03/27/2025 14:02

Lab File ID: BN036736.D Init. Calib. Date(s): 03/10/2025 03/10/2025

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 11:42 15:19

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.595	0.530		-10.9	50.0
Fluoranthene-d10	1.025	1.022		-0.3	50.0
2-Fluorophenol	0.932	0.868		-6.9	50.0
Phenol-d6	1.152	1.008		-12.5	50.0
Nitrobenzene-d5	0.435	0.361		-17.0	50.0
2-Fluorobiphenyl	2.327	2.004		-13.9	50.0
2,4,6-Tribromophenol	0.182	0.174		-4.4	50.0
Terphenyl-d14	0.958	0.810		-15.4	50.0
1,4-Dioxane	0.444	0.491		10.6	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036736.D
Acq On : 27 Mar 2025 14:02
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 27 14:28:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.703	152	1995	0.400	ng		-0.02
7) Naphthalene-d8	10.487	136	4873	0.400	ng		-0.02
13) Acenaphthene-d10	14.345	164	2980	0.400	ng		-0.02
19) Phenanthrene-d10	17.086	188	6276	0.400	ng		-0.02
29) Chrysene-d12	21.277	240	5211	0.400	ng		-0.02
35) Perylene-d12	23.525	264	4739	0.400	ng		#-0.03
System Monitoring Compounds							
4) 2-Fluorophenol	5.290	112	1732	0.373	ng		-0.02
5) Phenol-d6	6.872	99	2011	0.350	ng		-0.03
8) Nitrobenzene-d5	8.854	82	1760	0.332	ng		-0.02
11) 2-Methylnaphthalene-d10	12.085	152	2584	0.356	ng		-0.03
14) 2,4,6-Tribromophenol	15.833	330	518	0.383	ng		-0.02
15) 2-Fluorobiphenyl	12.968	172	5972	0.344	ng		-0.02
27) Fluoranthene-d10	19.122	212	6412	0.399	ng		-0.02
31) Terphenyl-d14	19.726	244	4220	0.338	ng		-0.02
Target Compounds							Qvalue
2) 1,4-Dioxane	3.225	88	979	0.442	ng		93
3) n-Nitrosodimethylamine	3.543	42	1688	0.377	ng		98
6) bis(2-Chloroethyl)ether	7.132	93	2087	0.352	ng		99
9) Naphthalene	10.530	128	5118	0.357	ng		99
10) Hexachlorobutadiene	10.829	225	1232	0.365	ng	#	96
12) 2-Methylnaphthalene	12.156	142	3238	0.355	ng		99
16) Acenaphthylene	14.056	152	4782	0.340	ng		100
17) Acenaphthene	14.398	154	3313	0.360	ng		100
18) Fluorene	15.392	166	4544	0.365	ng		99
20) 4,6-Dinitro-2-methylph...	15.489	198	478	0.444	ng	#	75
21) 4-Bromophenyl-phenylether	16.292	248	1431	0.364	ng	#	76
22) Hexachlorobenzene	16.404	284	1682	0.354	ng		96
23) Atrazine	16.565	200	1221	0.387	ng		95
24) Pentachlorophenol	16.751	266	801	0.370	ng		98
25) Phenanthrene	17.124	178	7195	0.382	ng		100
26) Anthracene	17.223	178	6283	0.370	ng		100
28) Fluoranthene	19.150	202	8617	0.407	ng		99
30) Pyrene	19.513	202	8868	0.348	ng		100
32) Benzo(a)anthracene	21.259	228	6412	0.354	ng		98
33) Chrysene	21.313	228	7670	0.387	ng		99
34) Bis(2-ethylhexyl)phtha...	21.196	149	4505	0.349	ng	#	99
36) Indeno(1,2,3-cd)pyrene	25.791	276	6199	0.362	ng		98
37) Benzo(b)fluoranthene	22.847	252	6514	0.378	ng		95
38) Benzo(k)fluoranthene	22.891	252	7579m	0.419	ng		
39) Benzo(a)pyrene	23.426	252	5338	0.368	ng		94
40) Dibenzo(a,h)anthracene	25.808	278	4803	0.361	ng		95
41) Benzo(g,h,i)perylene	26.481	276	5667	0.372	ng		98

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

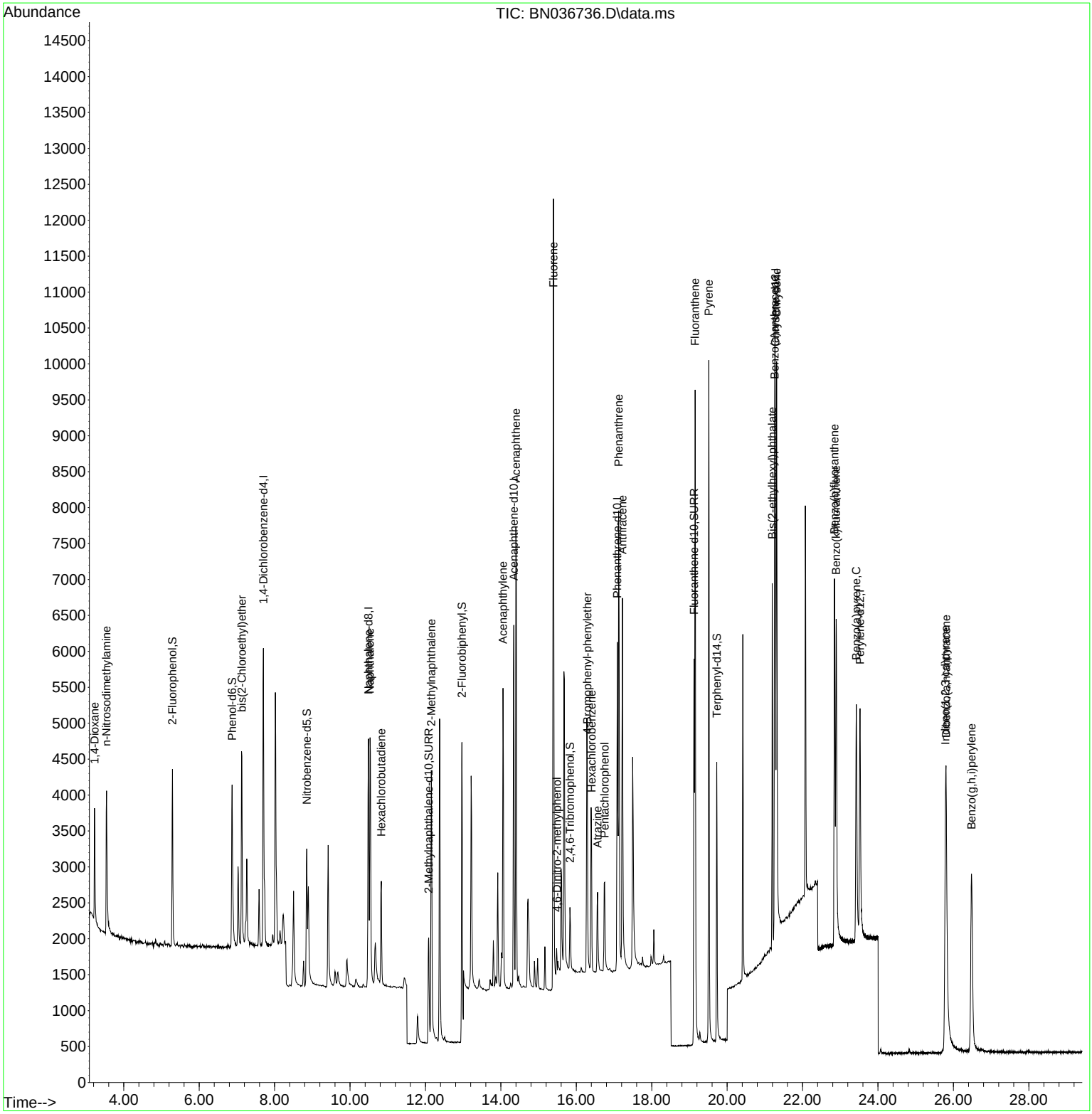
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036736.D
Acq On : 27 Mar 2025 14:02
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

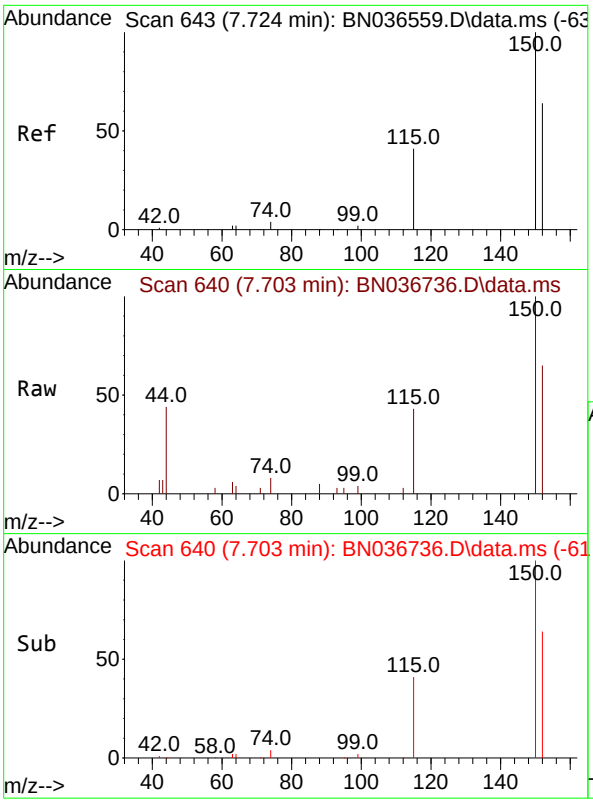
Quant Time: Mar 27 14:28:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

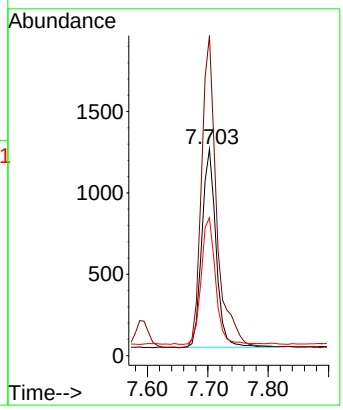




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.703 min Scan# 64
Delta R.T. -0.021 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:152 Resp: 199

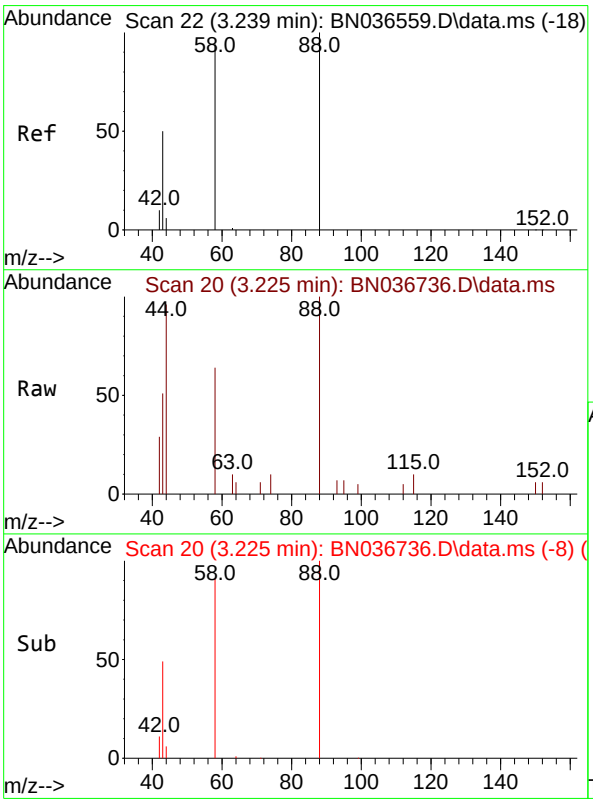
Ion	Ratio	Lower	Upper
152	100		
150	154.9	123.7	185.5
115	66.7	54.3	81.5



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

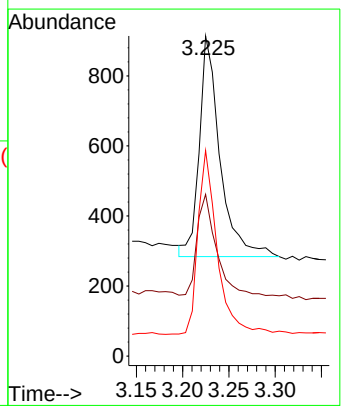
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

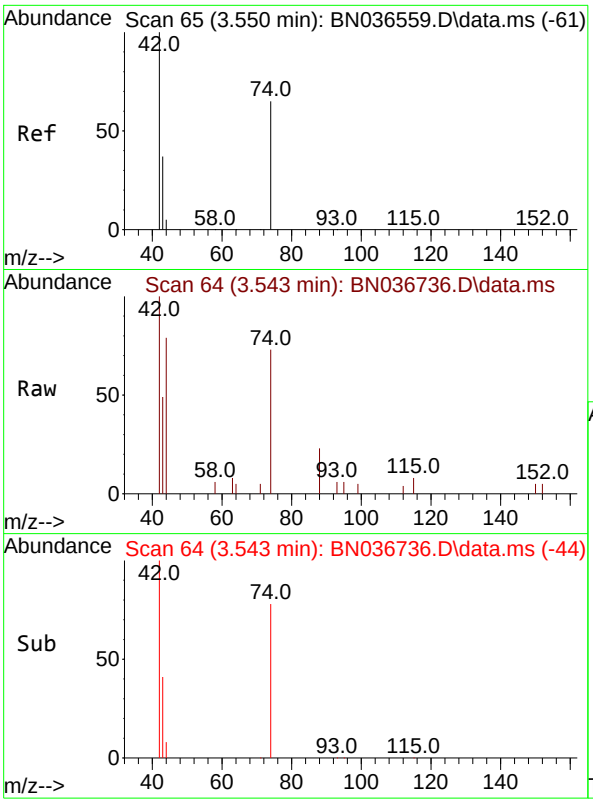


#2
1,4-Dioxane
Concen: 0.442 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion: 88 Resp: 979

Ion	Ratio	Lower	Upper
88	100		
43	43.0	37.8	56.8
58	77.9	67.4	101.2

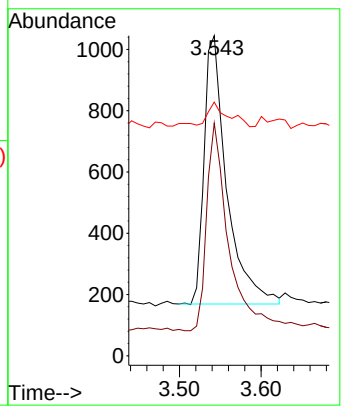




#3
n-Nitrosodimethylamine
Concen: 0.377 ng
RT: 3.543 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion: 42 Resp: 168

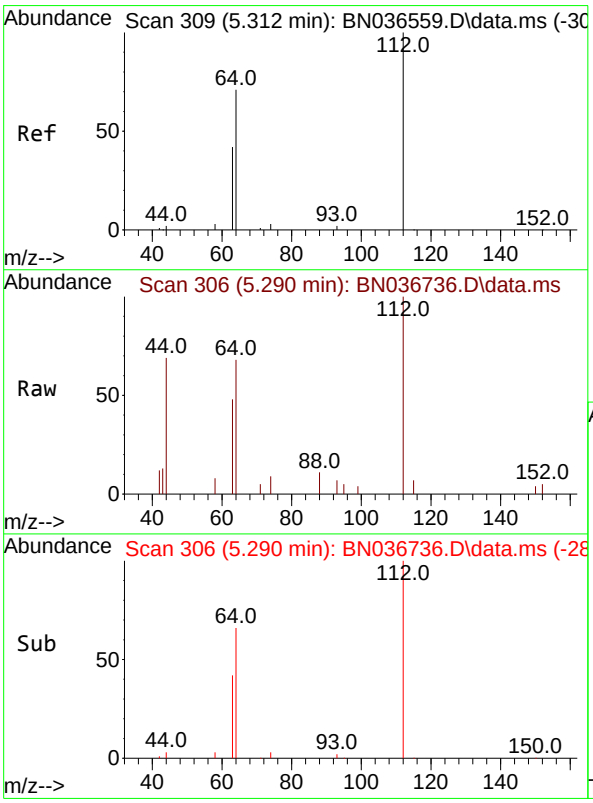
Ion	Ratio	Lower	Upper
42	100		
74	77.4	60.6	90.8
44	7.9	6.3	9.5



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

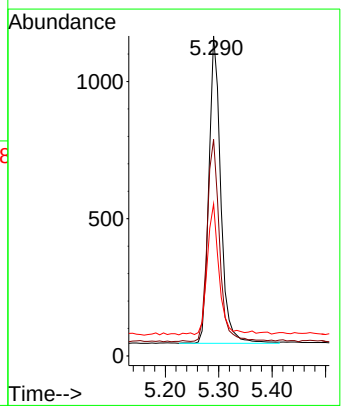
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

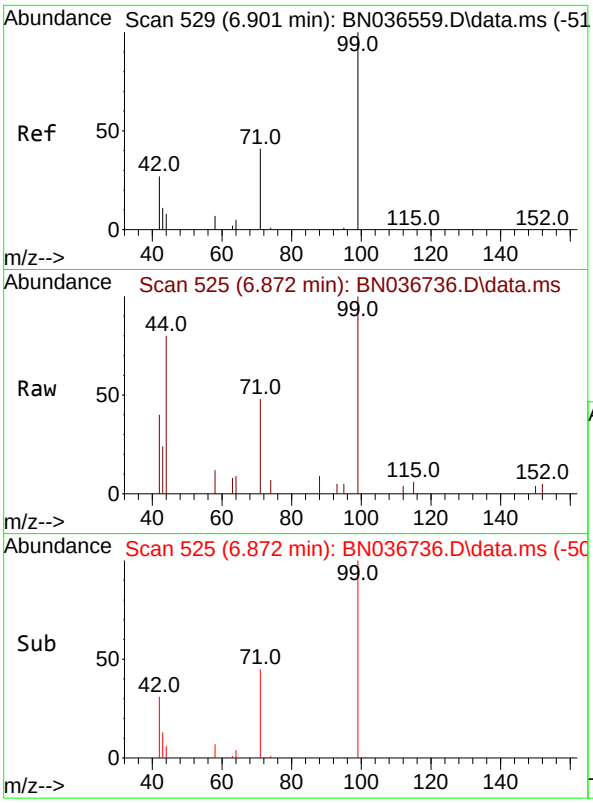


#4
2-Fluorophenol
Concen: 0.373 ng
RT: 5.290 min Scan# 306
Delta R.T. -0.022 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:112 Resp: 1732

Ion	Ratio	Lower	Upper
112	100		
64	67.9	53.1	79.7
63	42.6	31.8	47.8





#5
Phenol-d6
Concen: 0.350 ng
RT: 6.872 min Scan# 5
Delta R.T. -0.029 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion: 99 Resp: 201

Ion	Ratio	Lower	Upper
99	100		
42	35.9	26.5	39.7
71	45.0	34.1	51.1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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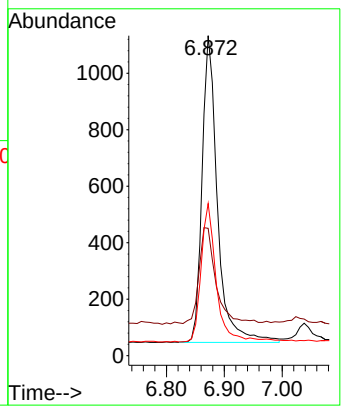
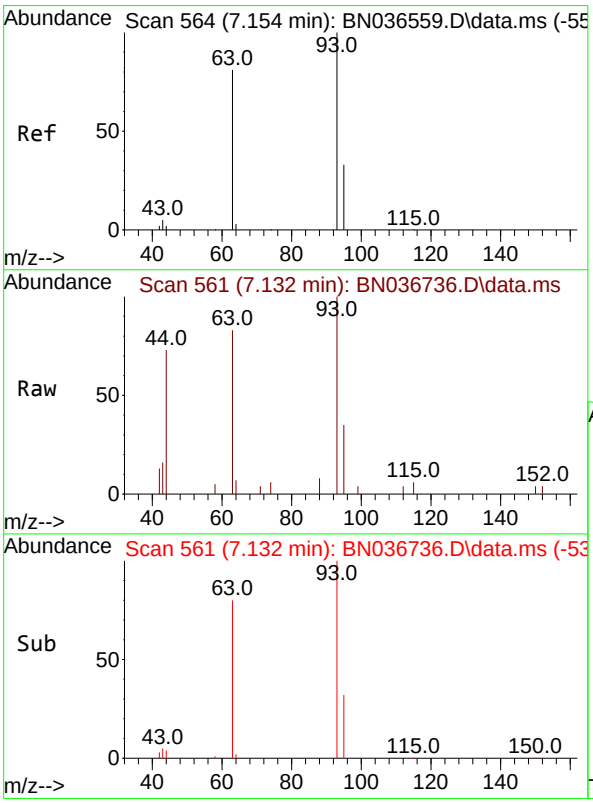
Supervised By :Jagrut Upadhyay 04/01/2025

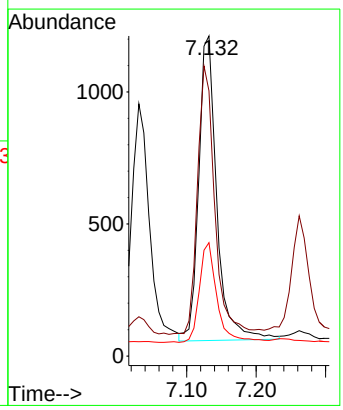


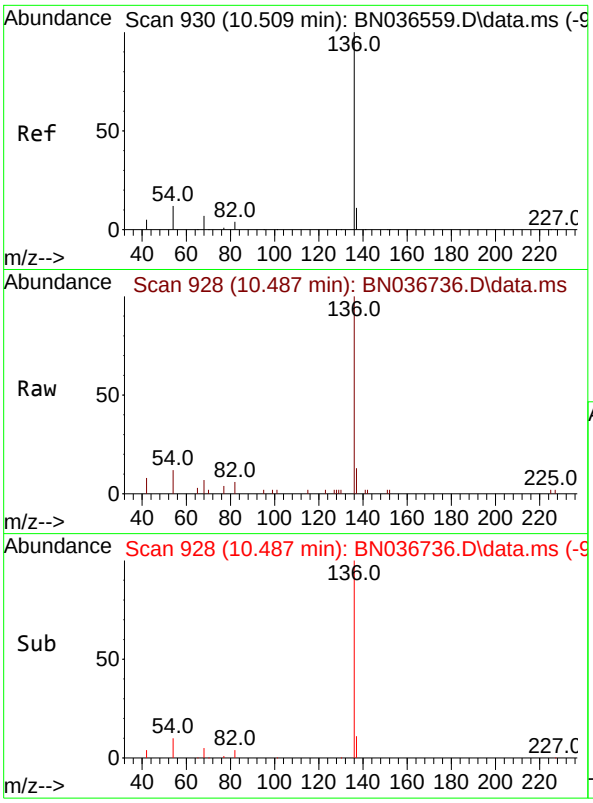


#6
bis(2-Chloroethyl)ether
Concen: 0.352 ng
RT: 7.132 min Scan# 561
Delta R.T. -0.022 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion: 93 Resp: 2087

Ion	Ratio	Lower	Upper
93	100		
63	83.9	67.7	101.5
95	32.0	25.6	38.4

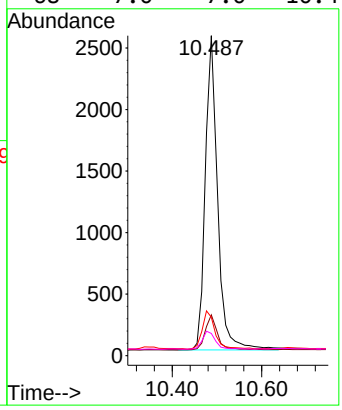




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.487 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:136 Resp: 487

Ion	Ratio	Lower	Upper
136	100		
137	12.8	10.3	15.5
54	12.0	11.5	17.3
68	7.0	7.0	10.4



Instrument :
BNA_N
ClientSampleId :
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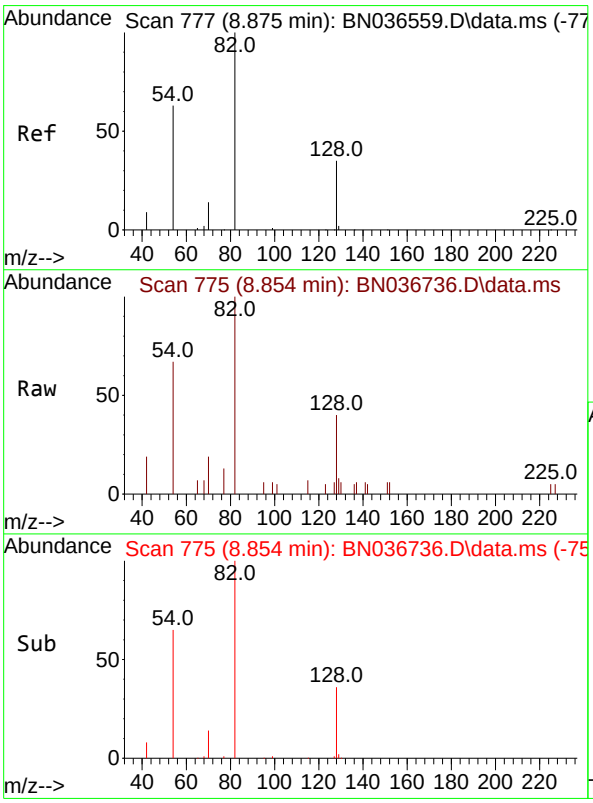
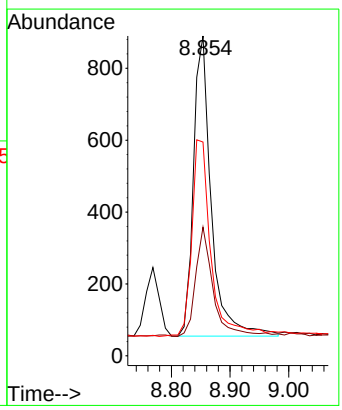
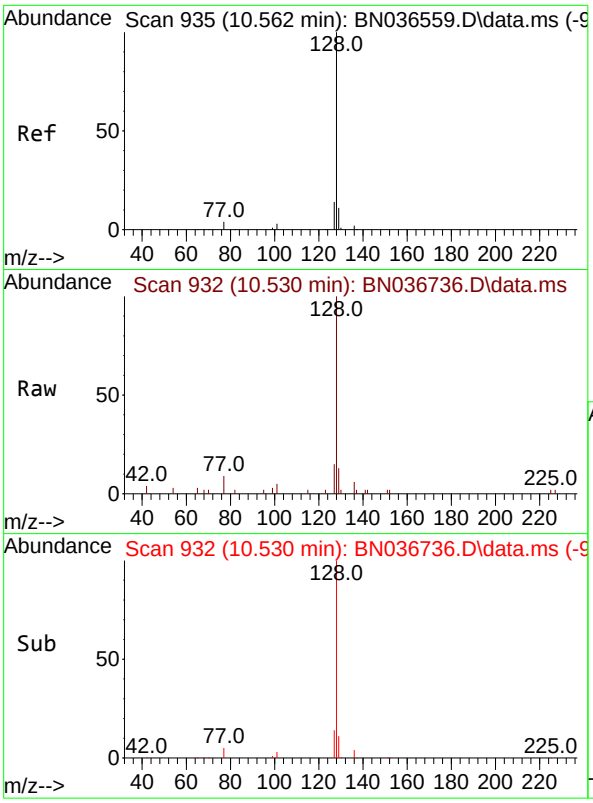


#8
Nitrobenzene-d5
Concen: 0.332 ng
RT: 8.854 min Scan# 775
Delta R.T. -0.021 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion: 82 Resp: 1760

Ion	Ratio	Lower	Upper
82	100		
128	40.2	30.6	45.8
54	66.9	52.2	78.4

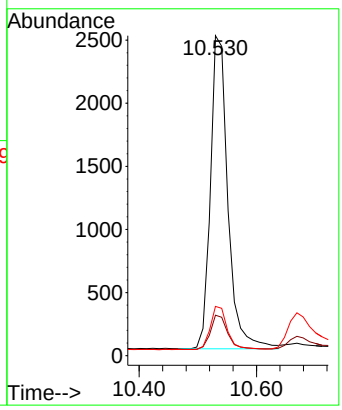




#9
Naphthalene
Concen: 0.357 ng
RT: 10.530 min Scan# 9
Delta R.T. -0.032 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:128 Resp: 511

Ion	Ratio	Lower	Upper
128	100		
129	12.7	9.8	14.6
127	15.4	11.8	17.8



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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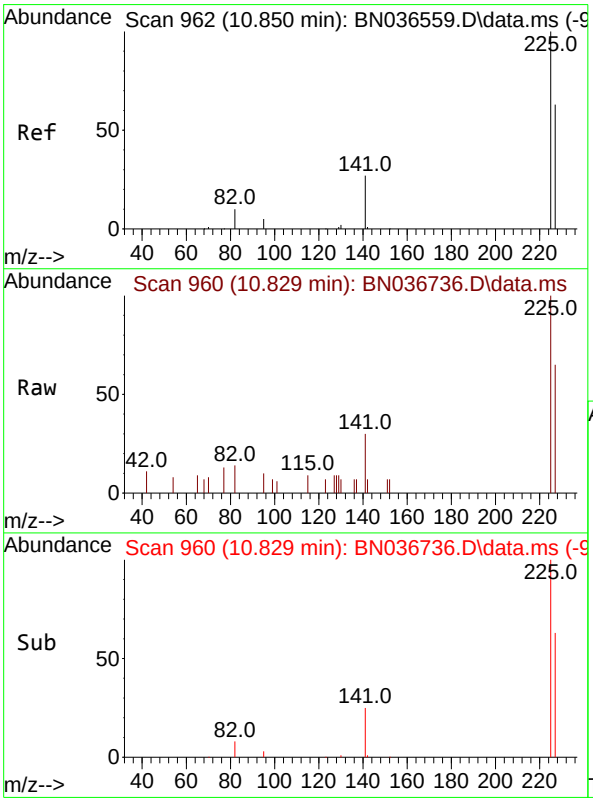
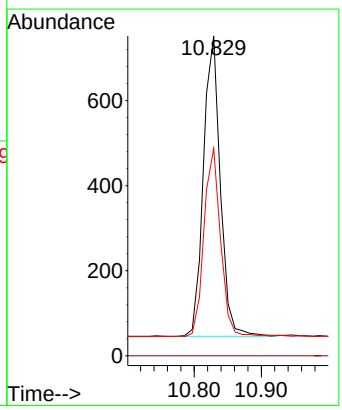
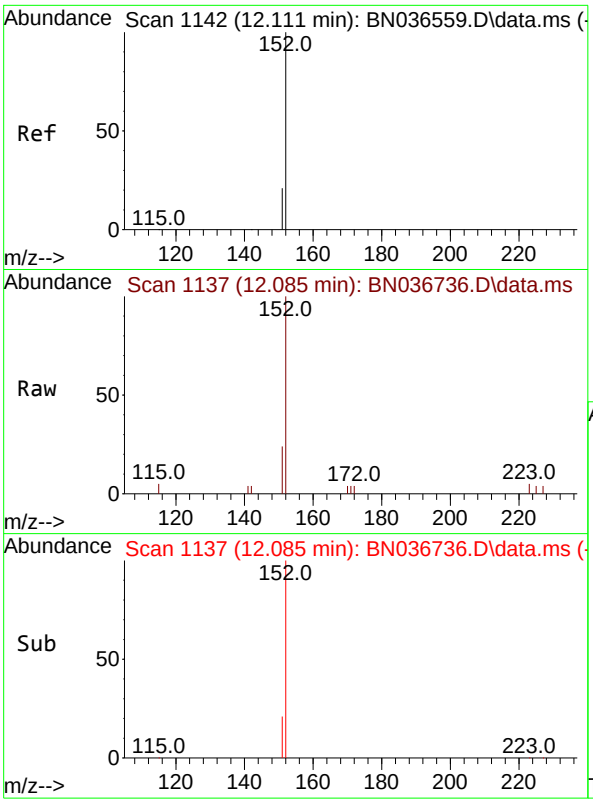


#10
Hexachlorobutadiene
Concen: 0.365 ng
RT: 10.829 min Scan# 960
Delta R.T. -0.021 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:225 Resp: 1232

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	61.7	51.8	77.8





#11
2-Methylnaphthalene-d10
Concen: 0.356 ng
RT: 12.085 min Scan# 11
Delta R.T. -0.025 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:152 Resp: 258

Ion	Ratio	Lower	Upper
152	100		
151	21.2	17.0	25.6

Instrument :
BNA_N
ClientSampleId :
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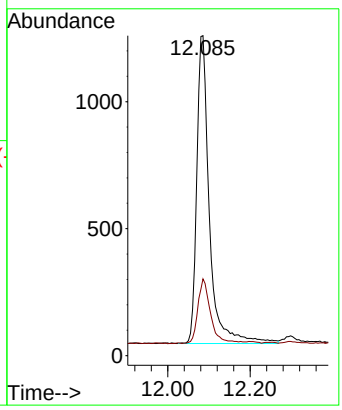
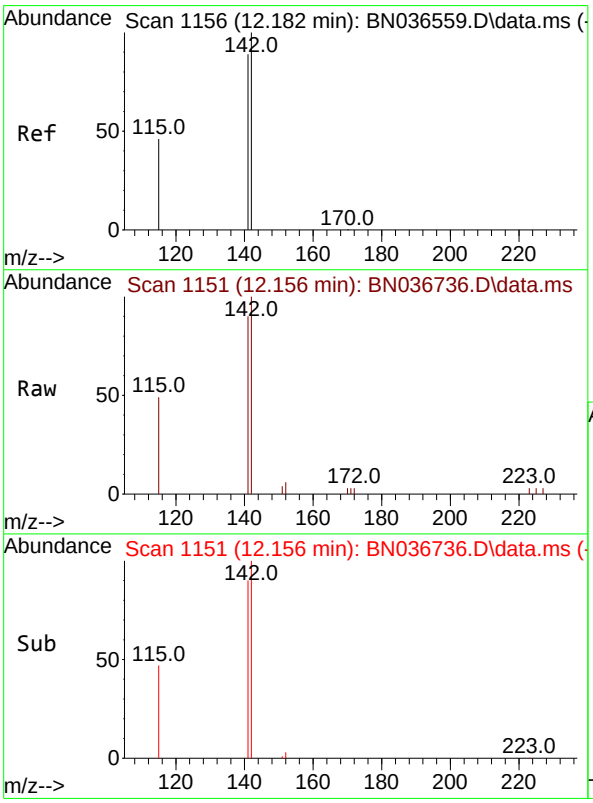
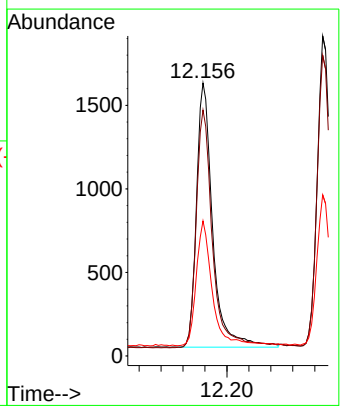


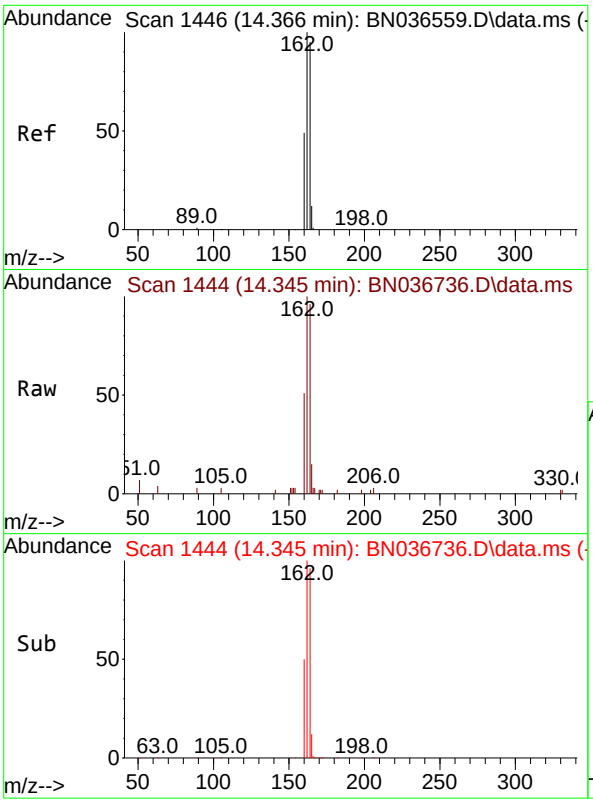


#12
2-Methylnaphthalene
Concen: 0.355 ng
RT: 12.156 min Scan# 1151
Delta R.T. -0.025 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:142 Resp: 3238

Ion	Ratio	Lower	Upper
142	100		
141	90.1	71.7	107.5
115	49.4	38.3	57.5

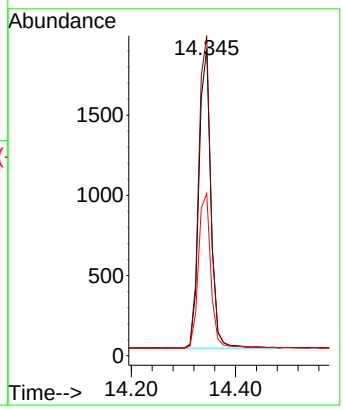




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 14
Delta R.T. -0.021 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:164 Resp: 298

Ion	Ratio	Lower	Upper
164	100		
162	104.2	84.2	126.2
160	52.8	42.2	63.2



Instrument :
BNA_N
ClientSampleId :
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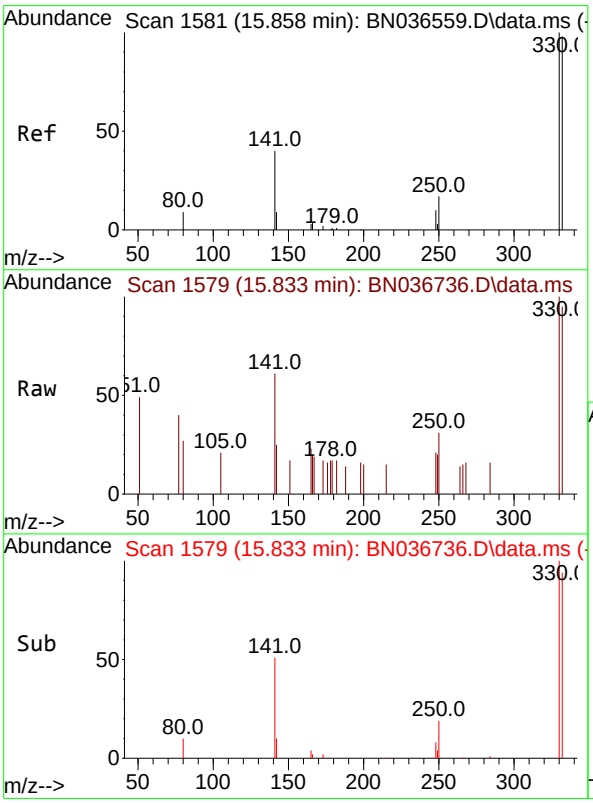
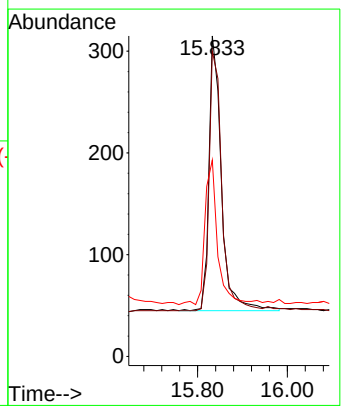
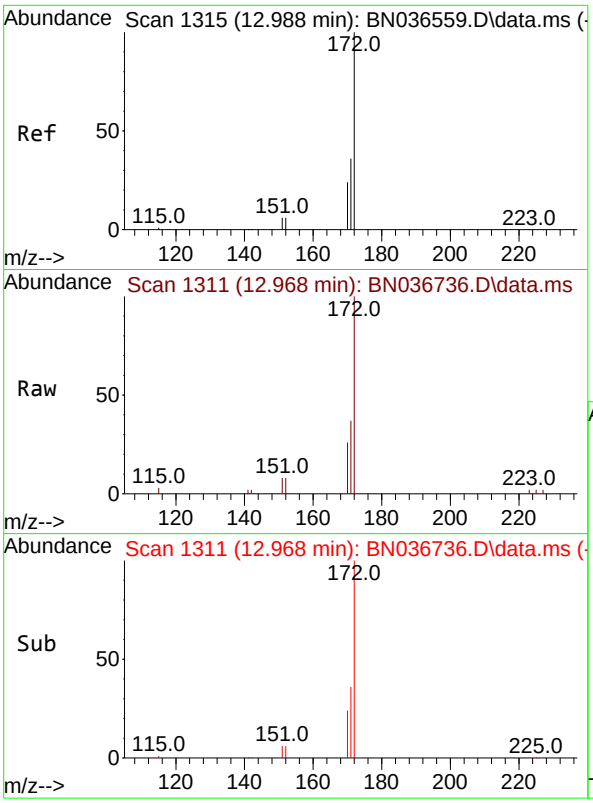


#14
2,4,6-Tribromophenol
Concen: 0.383 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.025 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:330 Resp: 518

Ion	Ratio	Lower	Upper
330	100		
332	95.4	75.2	112.8
141	53.3	43.4	65.2

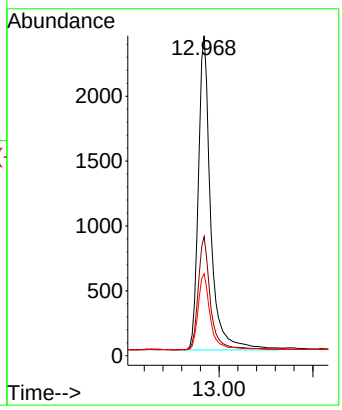




#15
2-Fluorobiphenyl
Concen: 0.344 ng
RT: 12.968 min Scan# 1
Delta R.T. -0.020 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:172 Resp: 597

Ion	Ratio	Lower	Upper
172	100		
171	37.2	29.5	44.3
170	25.6	20.2	30.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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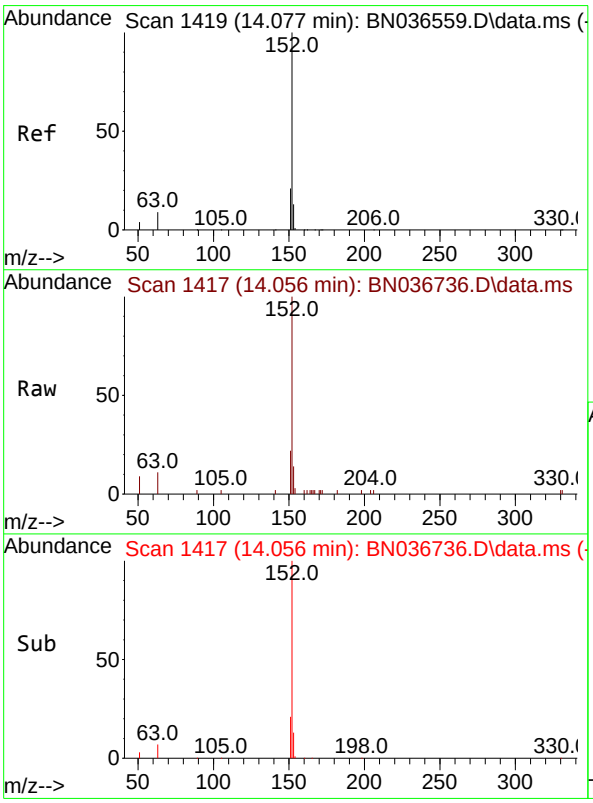
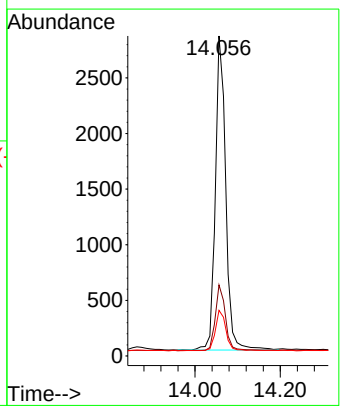
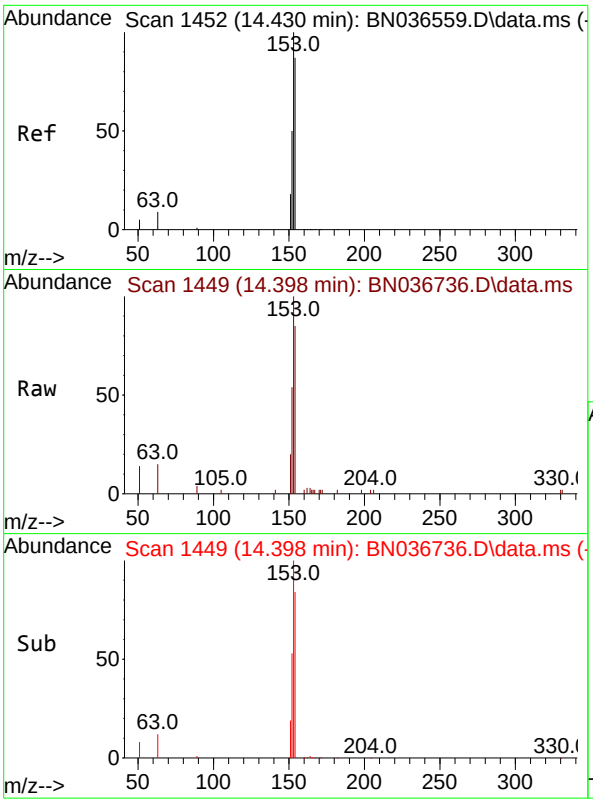


#16
Acenaphthylene
Concen: 0.340 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.021 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:152 Resp: 4782

Ion	Ratio	Lower	Upper
152	100		
151	20.5	16.2	24.4
153	13.0	10.6	15.8





#17
Acenaphthene
Concen: 0.360 ng
RT: 14.398 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:154 Resp: 331

Ion	Ratio	Lower	Upper
154	100		
153	118.1	94.1	141.1
152	62.4	49.8	74.6

Instrument :
BNA_N
ClientSampleId :
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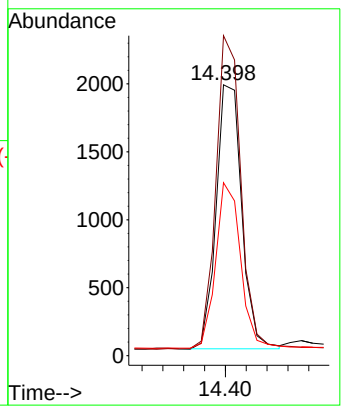
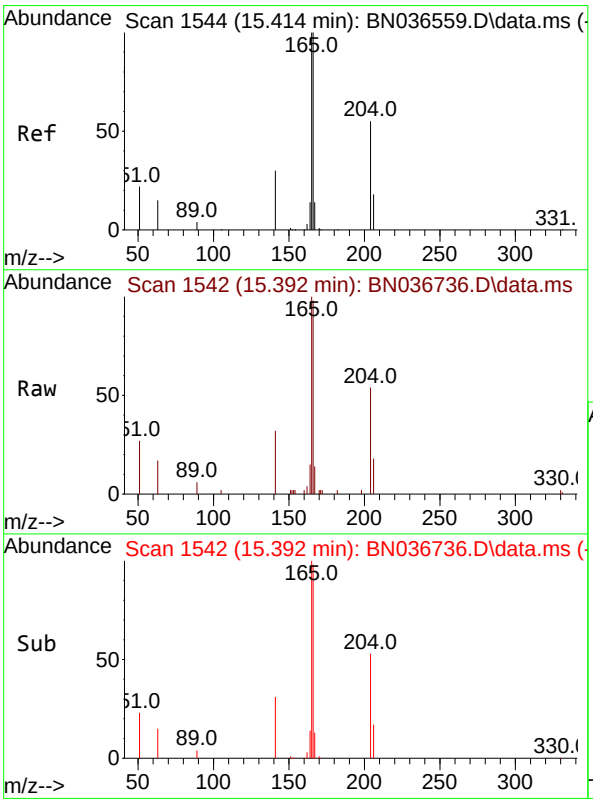
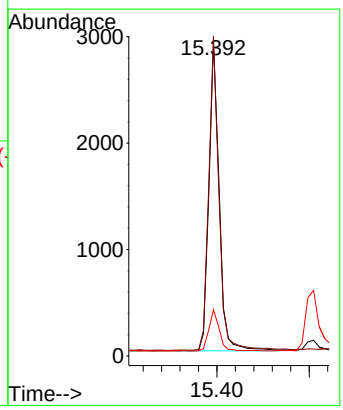


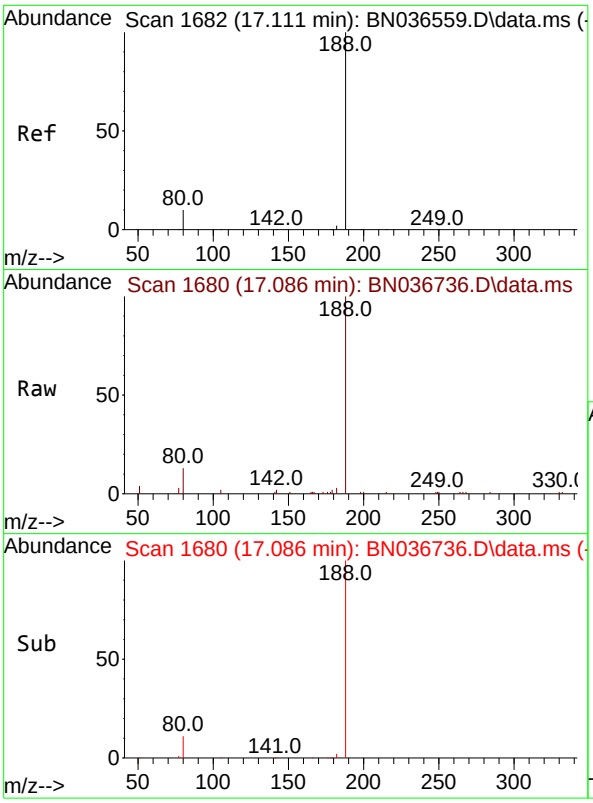


#18
Fluorene
Concen: 0.365 ng
RT: 15.392 min Scan# 1542
Delta R.T. -0.021 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:166 Resp: 4544

Ion	Ratio	Lower	Upper
166	100		
165	100.6	79.8	119.8
167	13.2	10.6	15.8

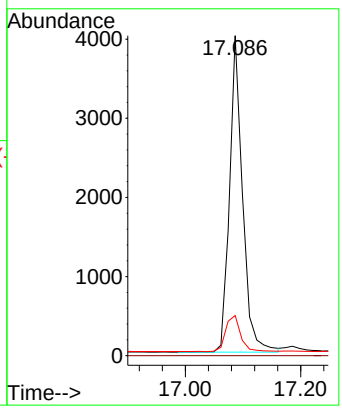




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:188 Resp: 627

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.6	8.8	13.2



Instrument :
BNA_N
ClientSampleId :
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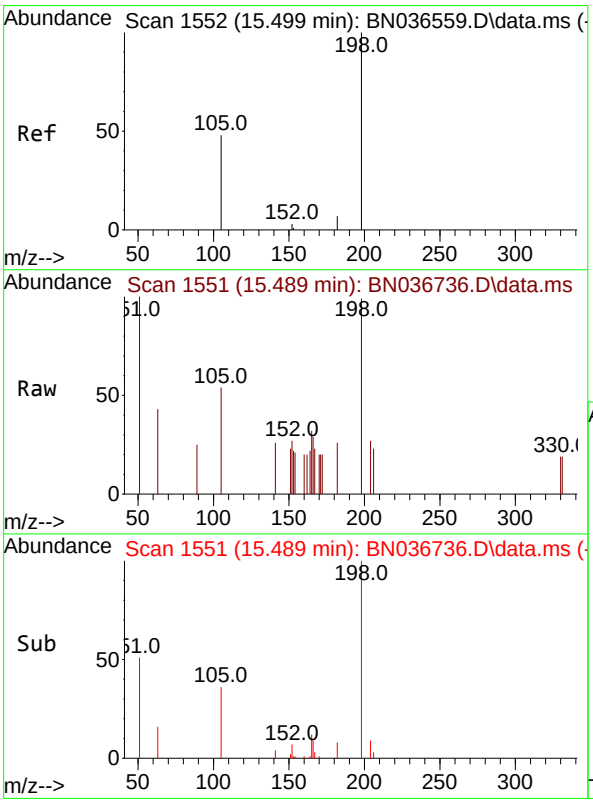
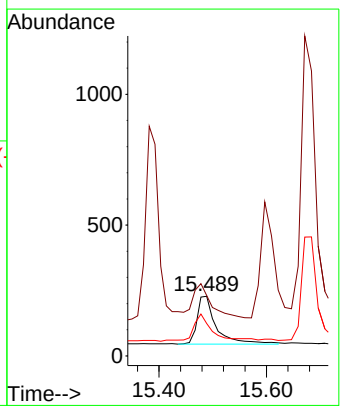
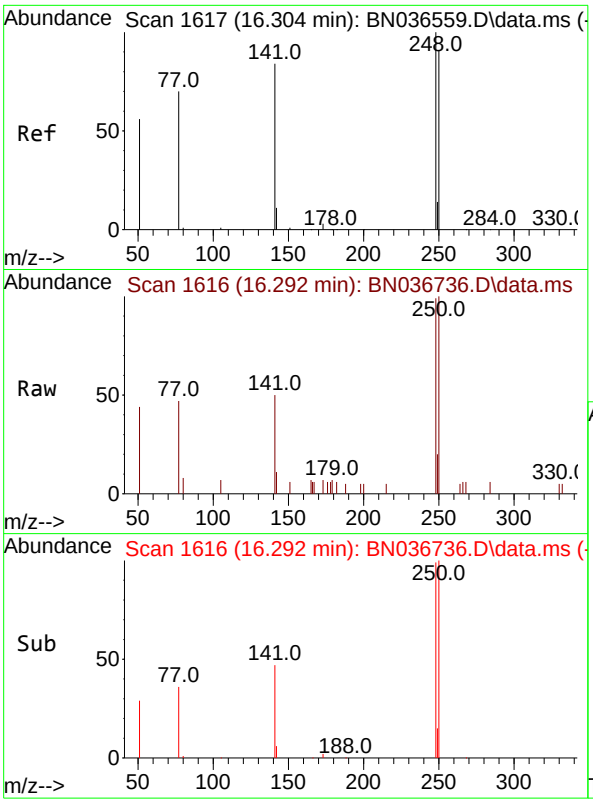


#20
4,6-Dinitro-2-methylphenol
Concen: 0.444 ng
RT: 15.489 min Scan# 1551
Delta R.T. -0.010 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:198 Resp: 478

Ion	Ratio	Lower	Upper
198	100		
51	101.3	107.9	161.9#
105	54.4	56.2	84.2#

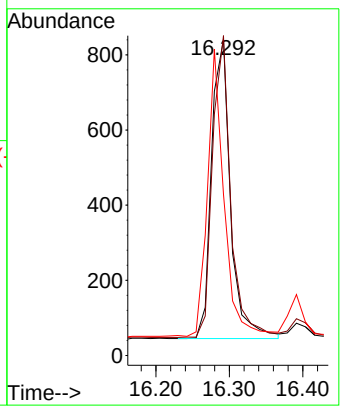




#21
4-Bromophenyl-phenylether
Concen: 0.364 ng
RT: 16.292 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:248 Resp: 143

Ion	Ratio	Lower	Upper
248	100		
250	101.2	73.0	109.6
141	51.0	68.6	103.0#



Instrument :
BNA_N
ClientSampleId :
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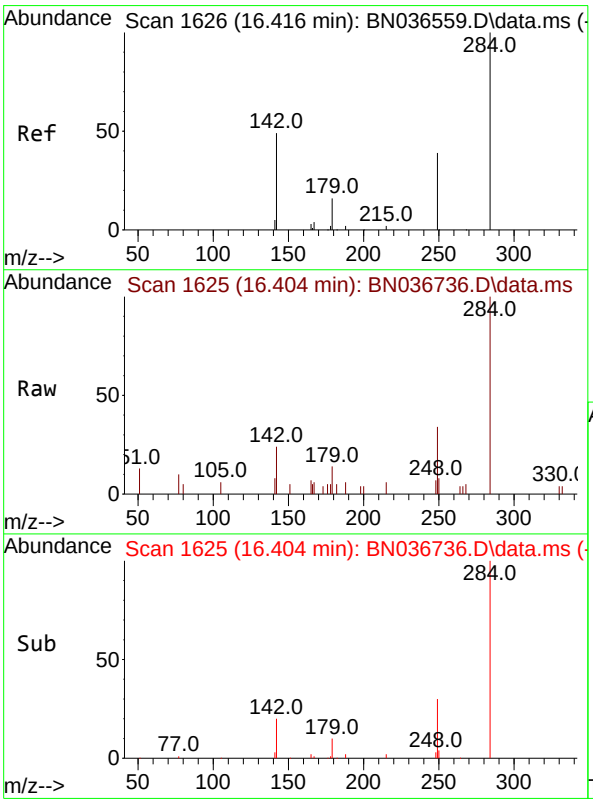
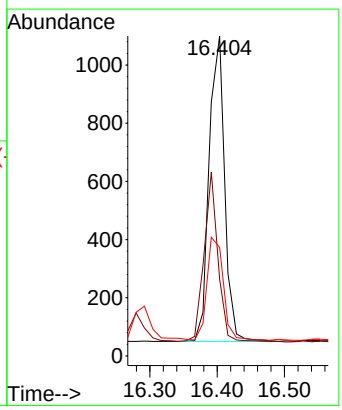
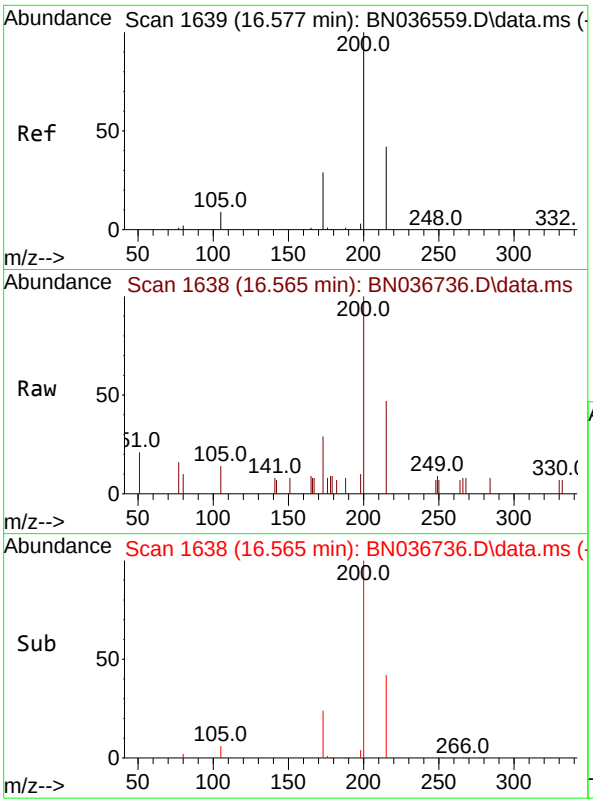


#22
Hexachlorobenzene
Concen: 0.354 ng
RT: 16.404 min Scan# 1625
Delta R.T. -0.012 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:284 Resp: 1682

Ion	Ratio	Lower	Upper
284	100		
142	50.2	37.0	55.4
249	35.7	28.1	42.1





#23
Atrazine
Concen: 0.387 ng
RT: 16.565 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:200 Resp: 122

Ion	Ratio	Lower	Upper
200	100		
173	28.9	27.3	40.9
215	47.0	36.8	55.2

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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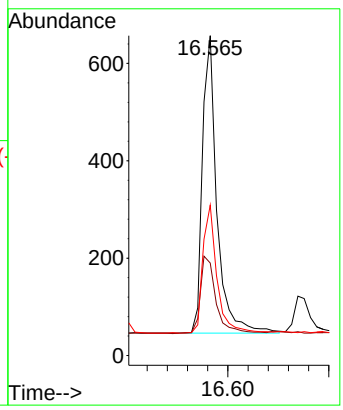
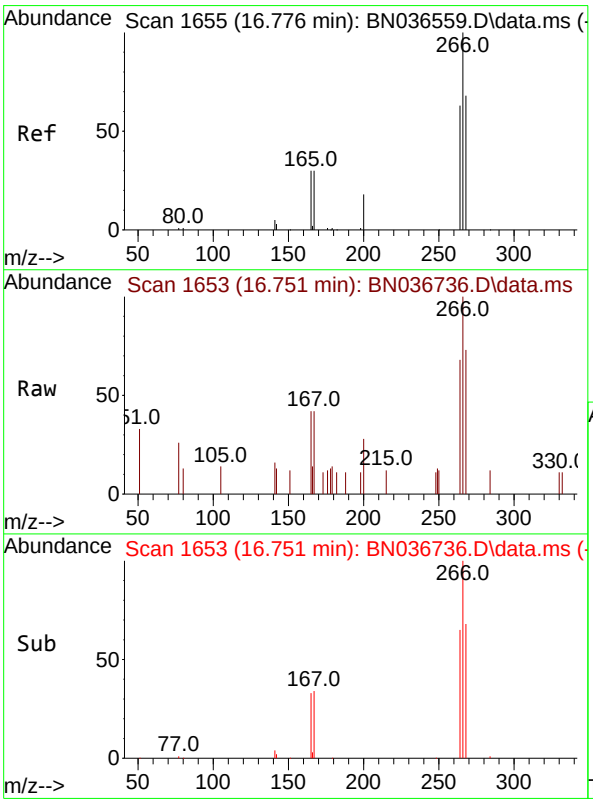
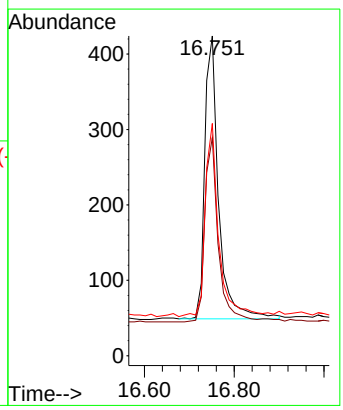


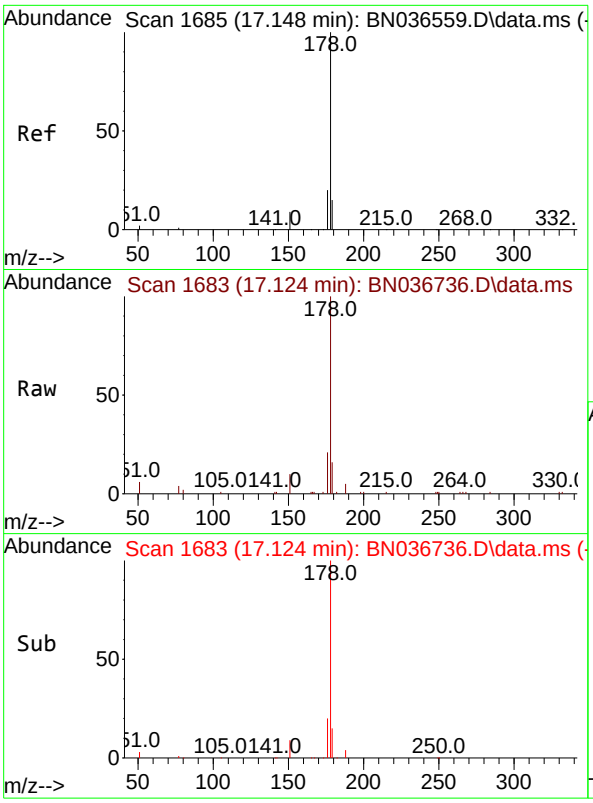


#24
Pentachlorophenol
Concen: 0.370 ng
RT: 16.751 min Scan# 1653
Delta R.T. -0.025 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:266 Resp: 801

Ion	Ratio	Lower	Upper
266	100		
264	62.7	49.6	74.4
268	66.5	50.9	76.3

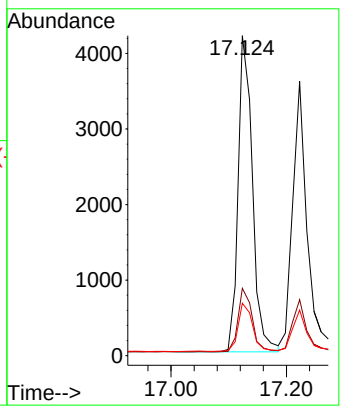




#25
Phenanthrene
Concen: 0.382 ng
RT: 17.124 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:178 Resp: 719

Ion	Ratio	Lower	Upper
178	100		
176	19.8	15.9	23.9
179	15.3	12.2	18.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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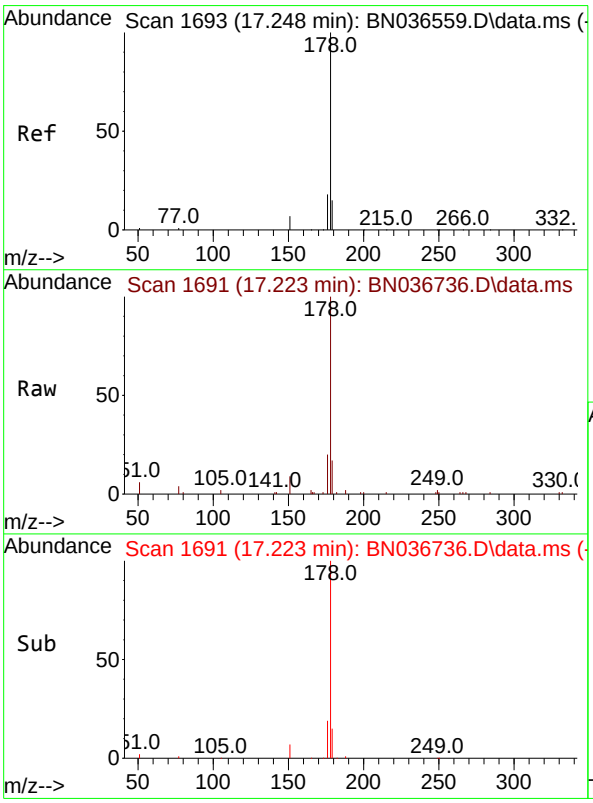
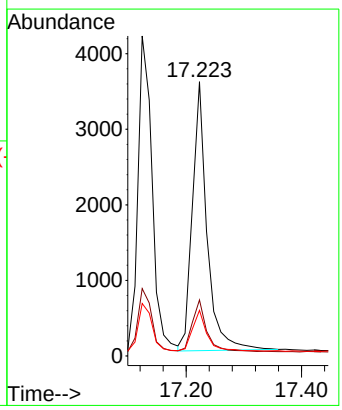
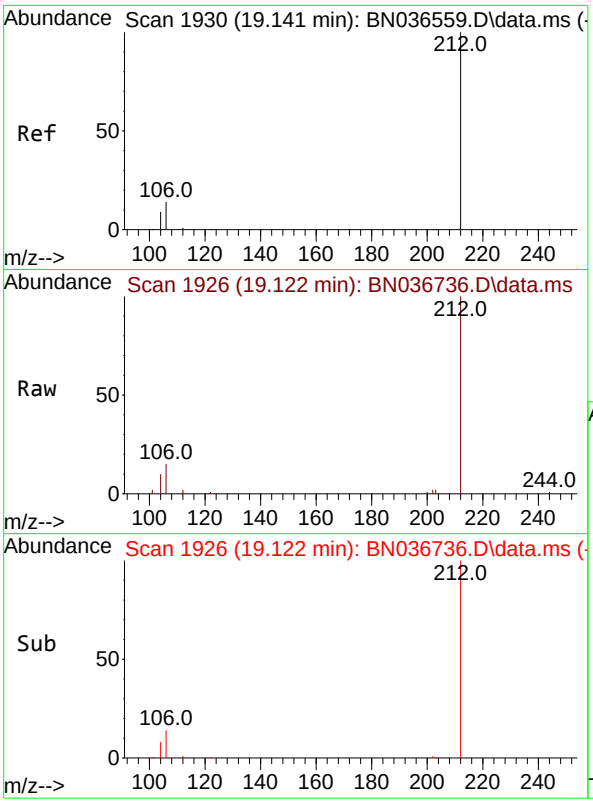


#26
Anthracene
Concen: 0.370 ng
RT: 17.223 min Scan# 1691
Delta R.T. -0.025 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:178 Resp: 6283

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.4	23.2
179	15.8	12.6	18.8

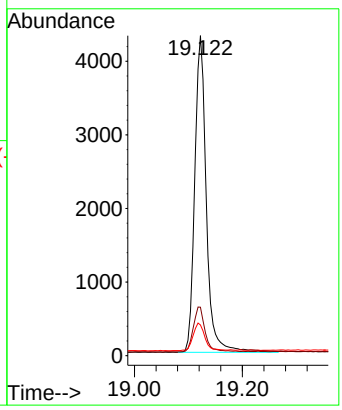




#27
Fluoranthene-d10
Concen: 0.399 ng
RT: 19.122 min Scan# 1
Delta R.T. -0.019 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:212 Resp: 641

Ion	Ratio	Lower	Upper
212	100		
106	14.4	11.8	17.6
104	8.9	7.3	10.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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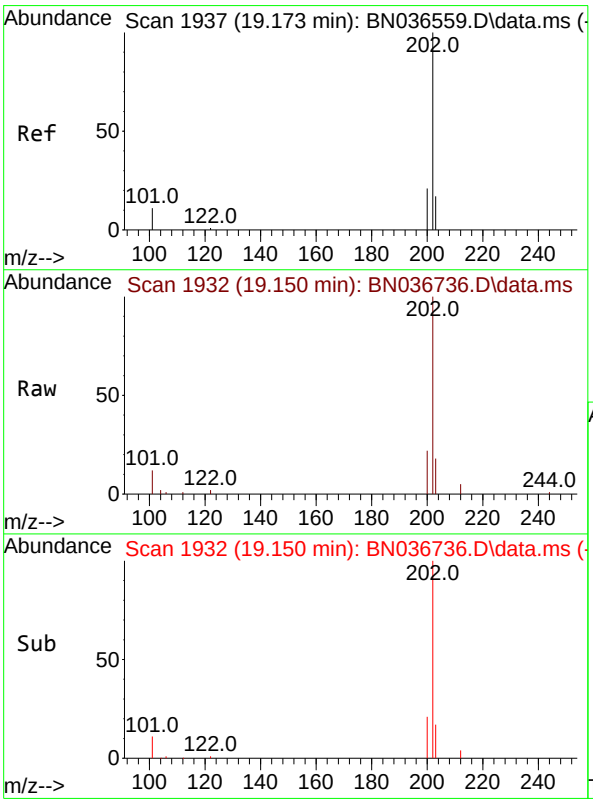
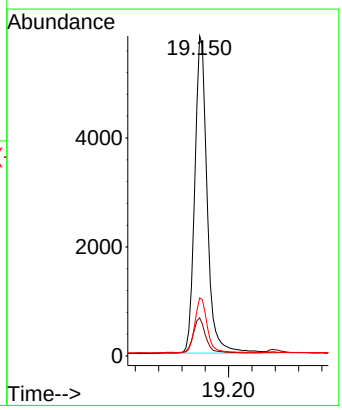
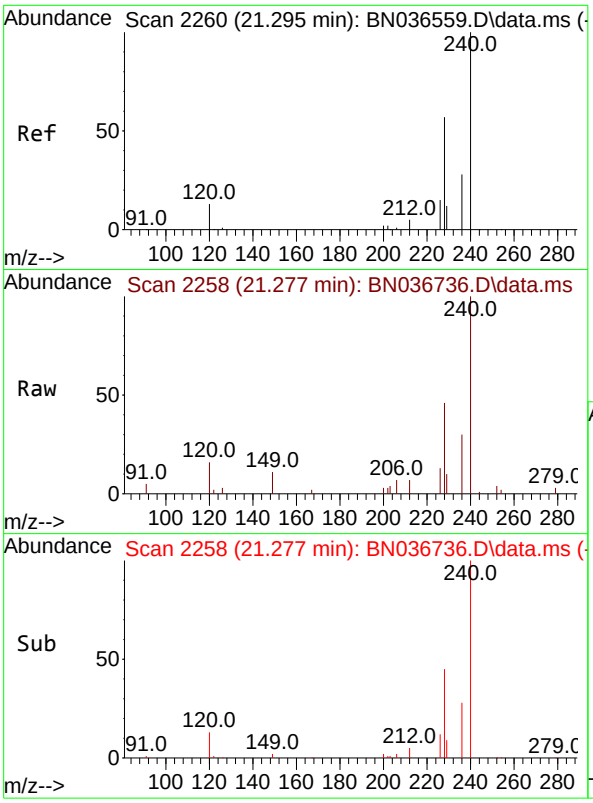


#28
Fluoranthene
Concen: 0.407 ng
RT: 19.150 min Scan# 1932
Delta R.T. -0.023 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:202 Resp: 8617

Ion	Ratio	Lower	Upper
202	100		
101	11.2	9.4	14.0
203	17.1	13.5	20.3

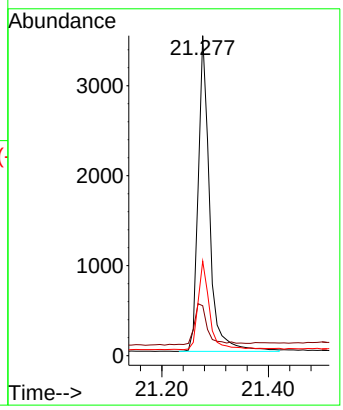




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:240 Resp: 521

Ion	Ratio	Lower	Upper
240	100		
120	15.6	14.6	22.0
236	29.6	24.1	36.1



Instrument :
BNA_N
ClientSampleId :
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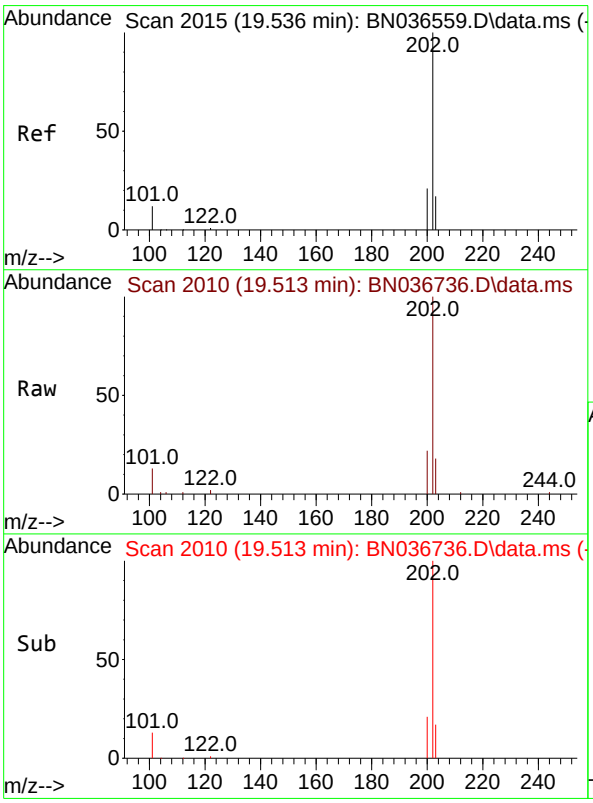
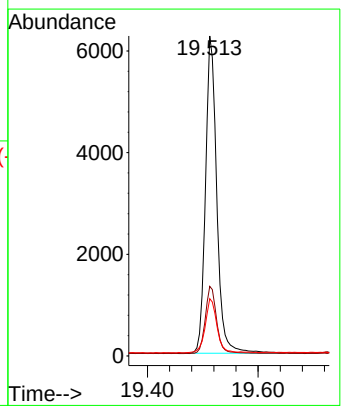
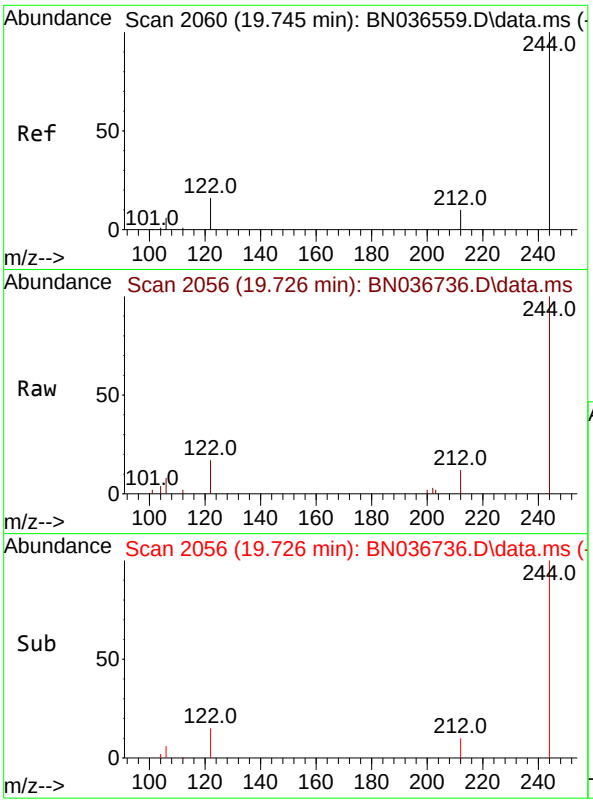


#30
Pyrene
Concen: 0.348 ng
RT: 19.513 min Scan# 2010
Delta R.T. -0.023 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:202 Resp: 8868

Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.1	25.7
203	17.4	14.1	21.1

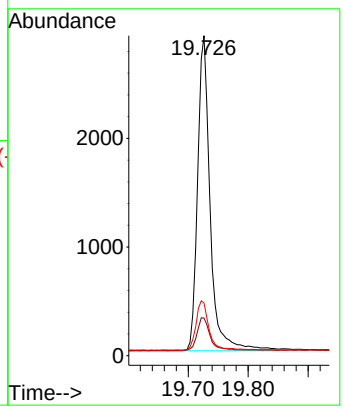




#31
Terphenyl-d14
Concen: 0.338 ng
RT: 19.726 min Scan# 2
Delta R.T. -0.019 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:244 Resp: 422

Ion	Ratio	Lower	Upper
244	100		
212	11.7	9.6	14.4
122	16.5	13.9	20.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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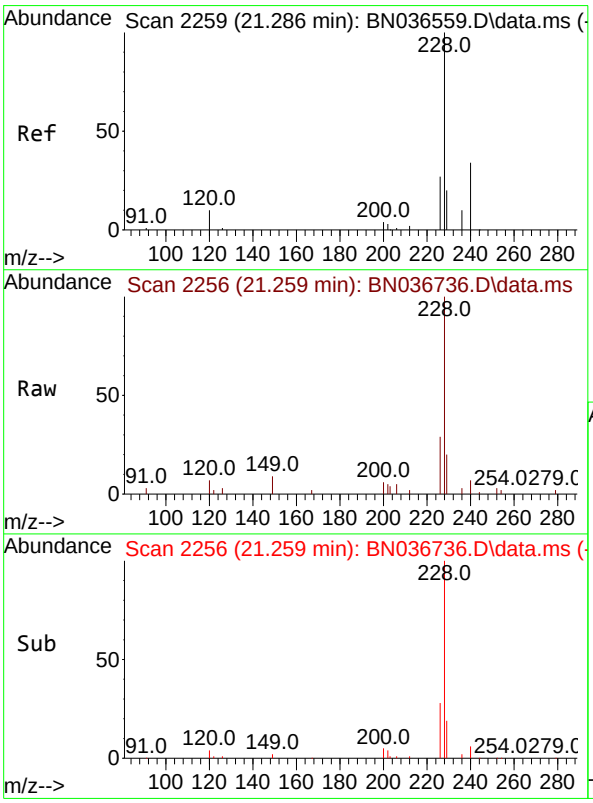
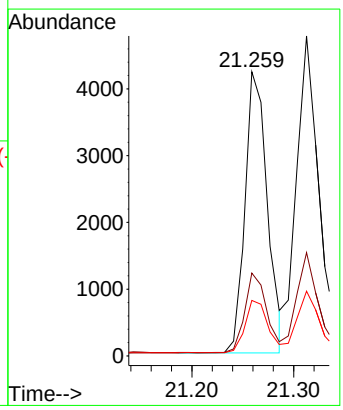
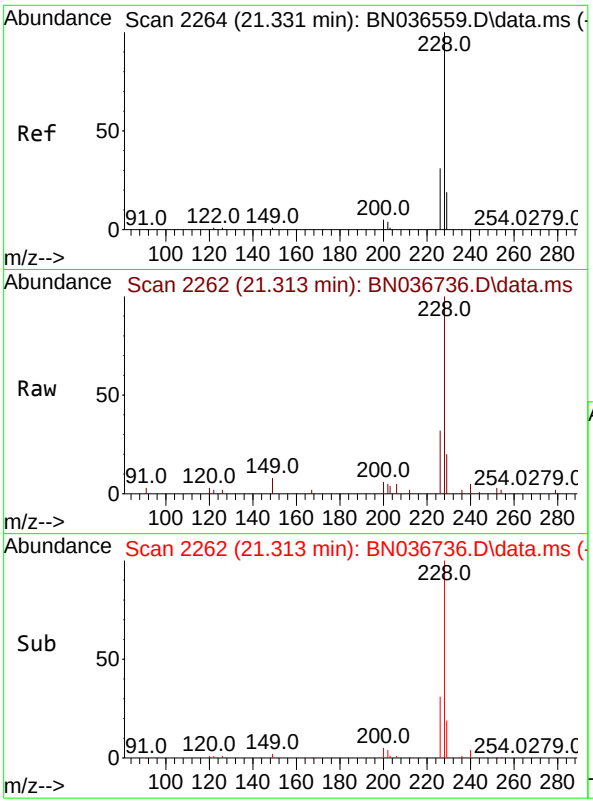


#32
Benzo(a)anthracene
Concen: 0.354 ng
RT: 21.259 min Scan# 2256
Delta R.T. -0.027 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:228 Resp: 6412

Ion	Ratio	Lower	Upper
228	100		
226	29.2	22.5	33.7
229	19.5	16.6	25.0

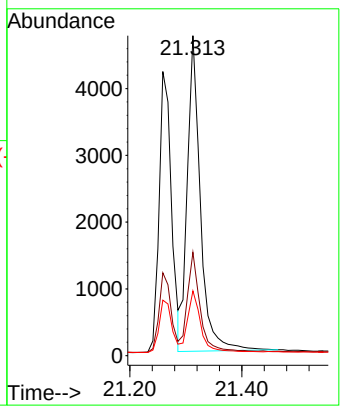




#33
Chrysene
Concen: 0.387 ng
RT: 21.313 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:228 Resp: 767

Ion	Ratio	Lower	Upper
228	100		
226	32.3	25.3	37.9
229	20.2	15.8	23.8



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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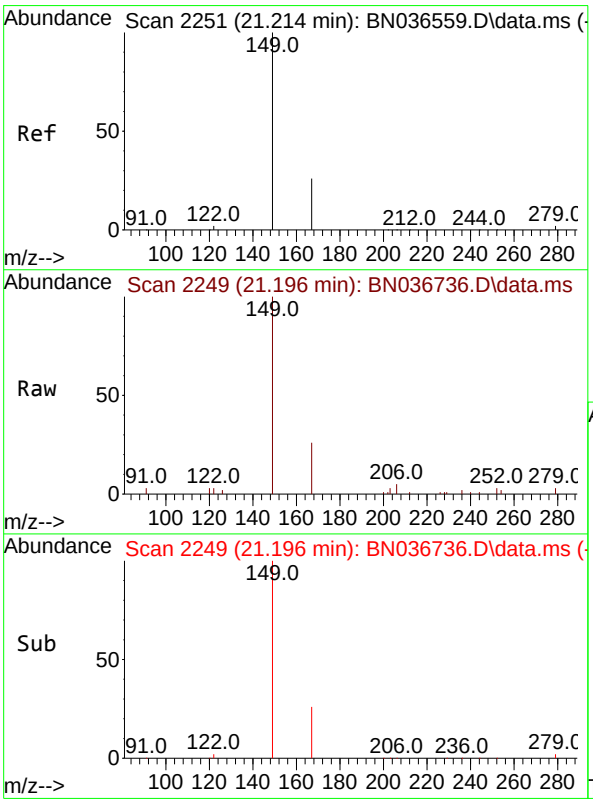
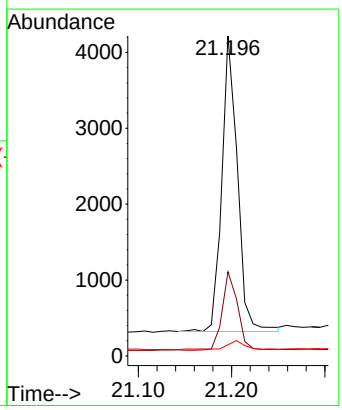
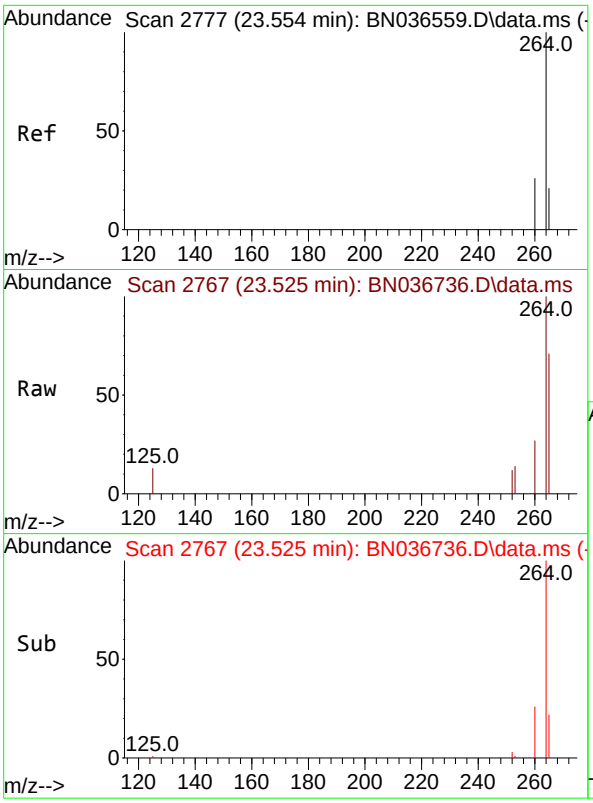


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.349 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:149 Resp: 4505

Ion	Ratio	Lower	Upper
149	100		
167	26.3	20.7	31.1
279	2.9	3.6	5.4#

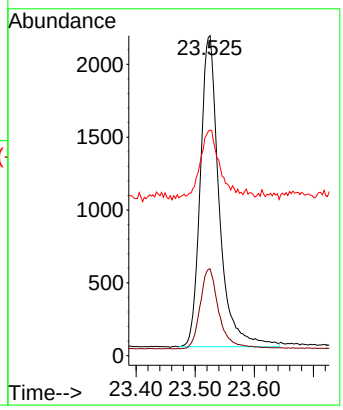




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.525 min Scan# 2
Delta R.T. -0.029 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:264 Resp: 473

Ion	Ratio	Lower	Upper
264	100		
260	27.1	22.6	33.8
265	70.5	88.1	132.1



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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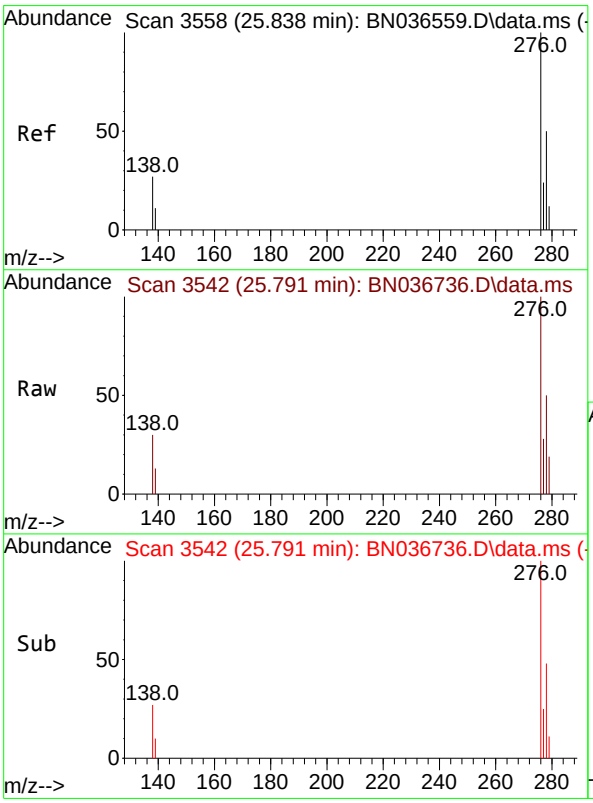
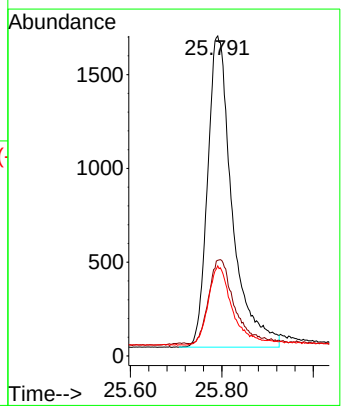
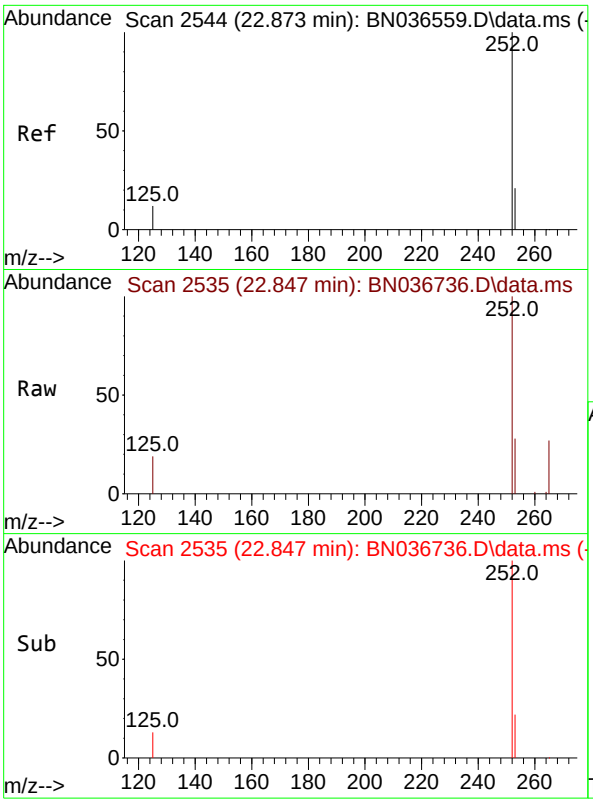


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.362 ng
RT: 25.791 min Scan# 3542
Delta R.T. -0.047 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:276 Resp: 6199

Ion	Ratio	Lower	Upper
276	100		
138	27.5	23.4	35.2
277	24.9	20.0	30.0

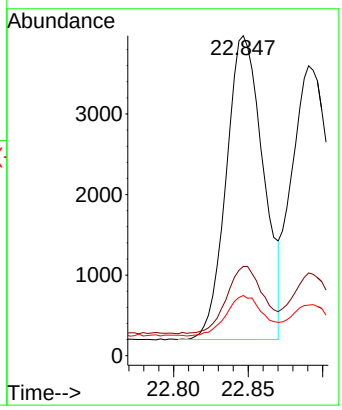




#37
Benzo(b)fluoranthene
Concen: 0.378 ng
RT: 22.847 min Scan# 2
Delta R.T. -0.026 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:252 Resp: 651

Ion	Ratio	Lower	Upper
252	100		
253	27.9	23.9	35.9
125	18.8	17.4	26.2



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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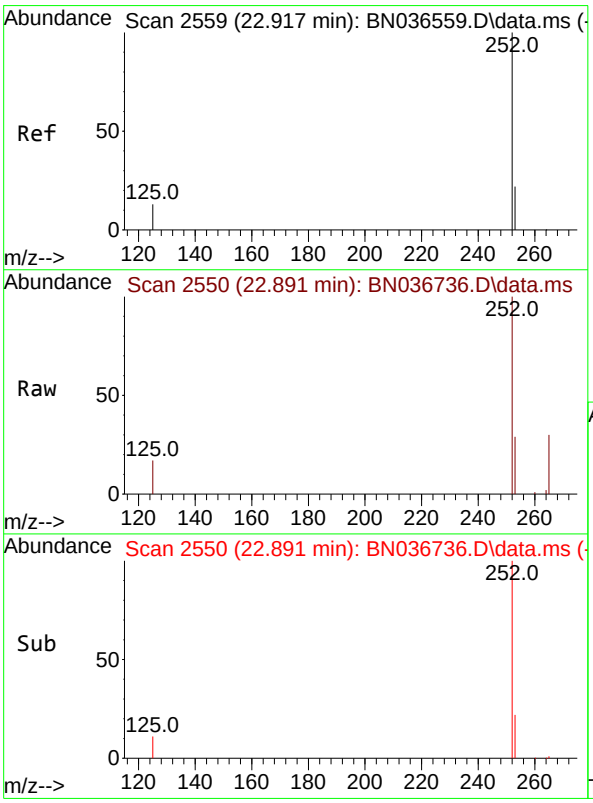
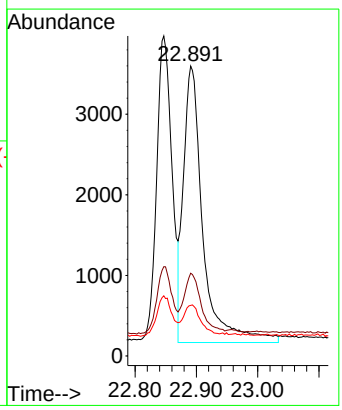
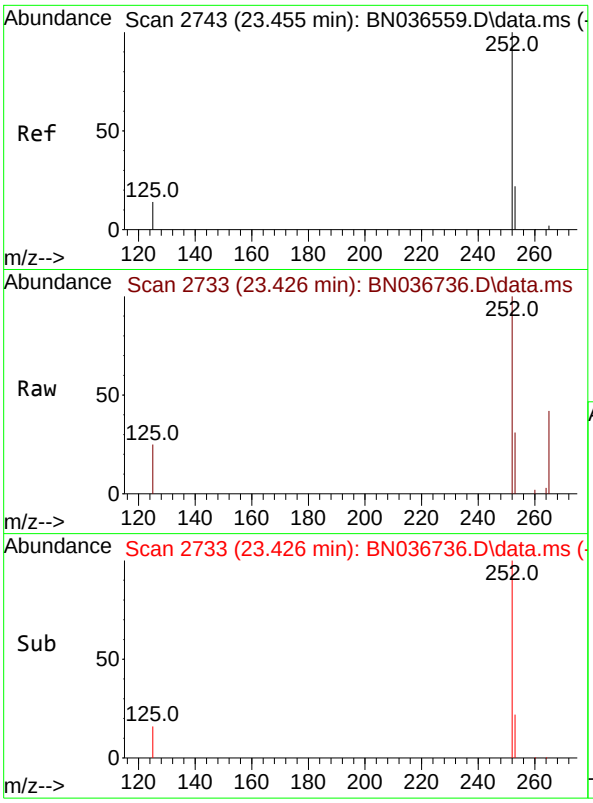


#38
Benzo(k)fluoranthene
Concen: 0.419 ng m
RT: 22.891 min Scan# 2550
Delta R.T. -0.026 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:252 Resp: 7579

Ion	Ratio	Lower	Upper
252	100		
253	28.5	24.6	36.8
125	17.5	17.8	26.8#

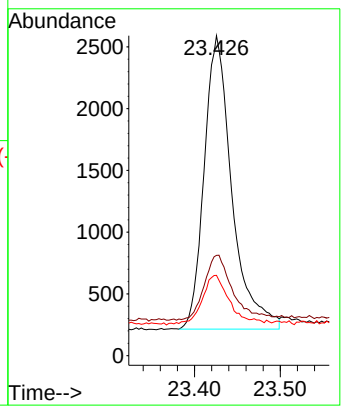




#39
Benzo(a)pyrene
Concen: 0.368 ng
RT: 23.426 min Scan# 2
Delta R.T. -0.029 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:252 Resp: 533

Ion	Ratio	Lower	Upper
252	100		
253	31.3	27.8	41.8
125	25.1	22.7	34.1



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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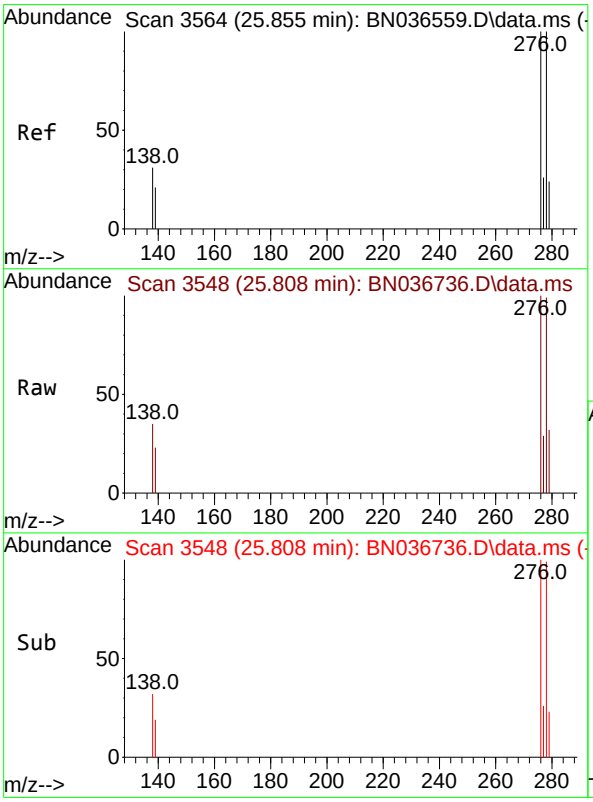
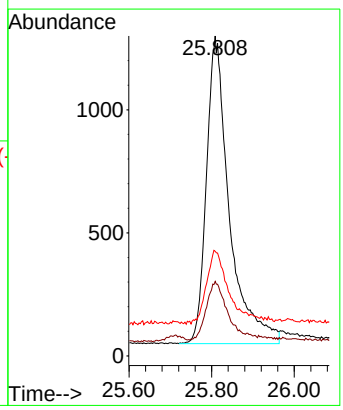
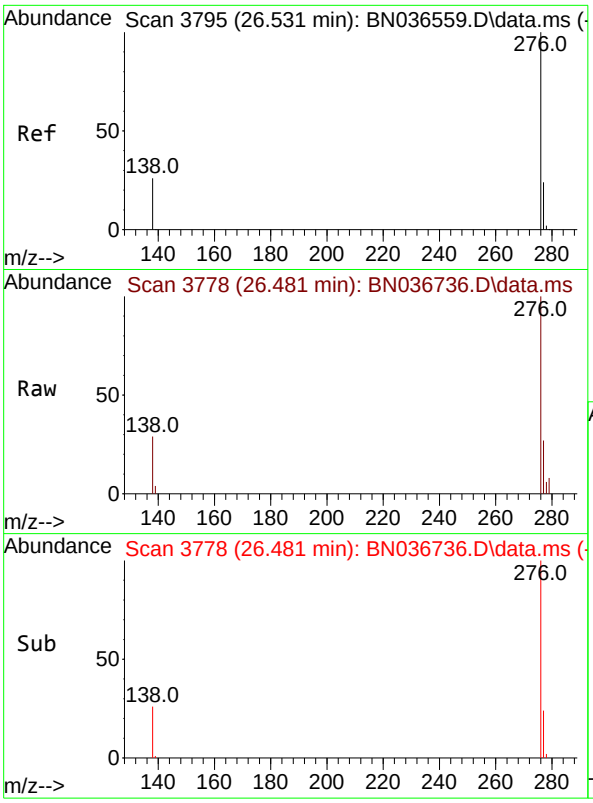


#40
Dibenzo(a,h)anthracene
Concen: 0.361 ng
RT: 25.808 min Scan# 3548
Delta R.T. -0.047 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:278 Resp: 4803

Ion	Ratio	Lower	Upper
278	100		
139	23.3	20.8	31.2
279	32.7	28.8	43.2

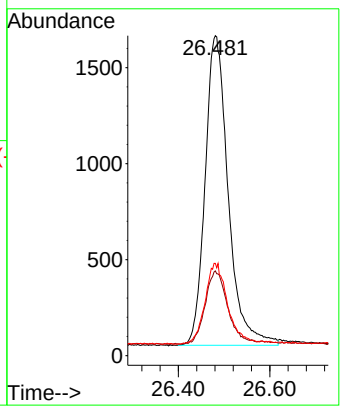




#41
Benzo(g,h,i)perylene
Concen: 0.372 ng
RT: 26.481 min Scan# 3
Delta R.T. -0.050 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:276 Resp: 566

Ion	Ratio	Lower	Upper
276	100		
277	26.5	22.2	33.4
138	28.9	24.1	36.1



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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Supervised By :Jagrut Upadhyay 04/01/2025

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036736.D
Acq On : 27 Mar 2025 14:02
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Mar 27 14:28:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 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	90	-0.02
2		1,4-Dioxane	0.444	0.491	-10.6	89	-0.01
3		n-Nitrosodimethylamine	0.898	0.846	5.8	82	0.00
4	S	2-Fluorophenol	0.932	0.868	6.9	80	-0.02
5	S	Phenol-d6	1.152	1.008	12.5	81	-0.03
6		bis(2-Chloroethyl)ether	1.190	1.046	12.1	80	-0.02
7	I	Naphthalene-d8	1.000	1.000	0.0	96	-0.02
8	S	Nitrobenzene-d5	0.435	0.361	17.0	83	-0.02
9		Naphthalene	1.177	1.050	10.8	83	-0.03
10		Hexachlorobutadiene	0.277	0.253	8.7	82	-0.02
11	SURR	2-Methylnaphthalene-d10	0.595	0.530	10.9	84	-0.03
12		2-Methylnaphthalene	0.749	0.664	11.3	83	-0.03
13	I	Acenaphthene-d10	1.000	1.000	0.0	98	-0.02
14	S	2,4,6-Tribromophenol	0.182	0.174	4.4	91	-0.02
15	S	2-Fluorobiphenyl	2.327	2.004	13.9	82	-0.02
16		Acenaphthylene	1.888	1.605	15.0	82	-0.02
17		Acenaphthene	1.236	1.112	10.0	85	-0.03
18		Fluorene	1.672	1.525	8.8	85	-0.02
19	I	Phenanthrene-d10	1.000	1.000	0.0	105	-0.02
20		4,6-Dinitro-2-methylphenol	0.086	0.076	11.6	103	-0.01
21		4-Bromophenyl-phenylether	0.251	0.228	9.2	87	-0.01
22		Hexachlorobenzene	0.303	0.268	11.6	83	-0.01
23		Atrazine	0.201	0.195	3.0	95	-0.01
24		Pentachlorophenol	0.138	0.128	7.2	98	-0.02
25		Phenanthrene	1.200	1.146	4.5	92	-0.02
26		Anthracene	1.083	1.001	7.6	91	-0.02
27	SURR	Fluoranthene-d10	1.025	1.022	0.3	96	-0.02
28		Fluoranthene	1.348	1.373	-1.9	99	-0.02
29	I	Chrysene-d12	1.000	1.000	0.0	127	-0.02
30		Pyrene	1.956	1.702	13.0	101	-0.02
31	S	Terphenyl-d14	0.958	0.810	15.4	100	-0.02
32		Benzo(a)anthracene	1.391	1.230	11.6	109	-0.03
33		Chrysene	1.520	1.472	3.2	116	-0.02
34		Bis(2-ethylhexyl)phthalate	0.990	0.865	12.6	105	-0.02
35	I	Perylene-d12	1.000	1.000	0.0	134	-0.03
36		Indeno(1,2,3-cd)pyrene	1.444	1.308	9.4	113	-0.05
37		Benzo(b)fluoranthene	1.456	1.375	5.6	119	-0.03
38		Benzo(k)fluoranthene	1.527	1.599	-4.7	132	-0.03
39	C	Benzo(a)pyrene	1.226	1.126	8.2	116	-0.03
40		Dibenzo(a,h)anthracene	1.124	1.014	9.8	117	-0.05
41		Benzo(g,h,i)perylene	1.286	1.196	7.0	116	-0.05

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036736.D
Acq On : 27 Mar 2025 14:02
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Mar 27 14:28:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 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	90	-0.02
2		1,4-Dioxane	0.400	0.442	-10.5	89	-0.01
3		n-Nitrosodimethylamine	0.400	0.377	5.8	82	0.00
4	S	2-Fluorophenol	0.400	0.373	6.8	80	-0.02
5	S	Phenol-d6	0.400	0.350	12.5	81	-0.03
6		bis(2-Chloroethyl)ether	0.400	0.352	12.0	80	-0.02
7	I	Naphthalene-d8	0.400	0.400	0.0	96	-0.02
8	S	Nitrobenzene-d5	0.400	0.332	17.0	83	-0.02
9		Naphthalene	0.400	0.357	10.8	83	-0.03
10		Hexachlorobutadiene	0.400	0.365	8.8	82	-0.02
11	SURR	2-Methylnaphthalene-d10	0.400	0.356	11.0	84	-0.03
12		2-Methylnaphthalene	0.400	0.355	11.3	83	-0.03
13	I	Acenaphthene-d10	0.400	0.400	0.0	98	-0.02
14	S	2,4,6-Tribromophenol	0.400	0.383	4.3	91	-0.02
15	S	2-Fluorobiphenyl	0.400	0.344	14.0	82	-0.02
16		Acenaphthylene	0.400	0.340	15.0	82	-0.02
17		Acenaphthene	0.400	0.360	10.0	85	-0.03
18		Fluorene	0.400	0.365	8.8	85	-0.02
19	I	Phenanthrene-d10	0.400	0.400	0.0	105	-0.02
20		4,6-Dinitro-2-methylphenol	0.400	0.444	-11.0	103	-0.01
21		4-Bromophenyl-phenylether	0.400	0.364	9.0	87	-0.01
22		Hexachlorobenzene	0.400	0.354	11.5	83	-0.01
23		Atrazine	0.400	0.387	3.3	95	-0.01
24		Pentachlorophenol	0.400	0.370	7.5	98	-0.02
25		Phenanthrene	0.400	0.382	4.5	92	-0.02
26		Anthracene	0.400	0.370	7.5	91	-0.02
27	SURR	Fluoranthene-d10	0.400	0.399	0.3	96	-0.02
28		Fluoranthene	0.400	0.407	-1.7	99	-0.02
29	I	Chrysene-d12	0.400	0.400	0.0	127	-0.02
30		Pyrene	0.400	0.348	13.0	101	-0.02
31	S	Terphenyl-d14	0.400	0.338	15.5	100	-0.02
32		Benzo(a)anthracene	0.400	0.354	11.5	109	-0.03
33		Chrysene	0.400	0.387	3.3	116	-0.02
34		Bis(2-ethylhexyl)phthalate	0.400	0.349	12.8	105	-0.02
35	I	Perylene-d12	0.400	0.400	0.0	134	-0.03
36		Indeno(1,2,3-cd)pyrene	0.400	0.362	9.5	113	-0.05
37		Benzo(b)fluoranthene	0.400	0.378	5.5	119	-0.03
38		Benzo(k)fluoranthene	0.400	0.419	-4.7	132	-0.03
39	C	Benzo(a)pyrene	0.400	0.368	8.0	116	-0.03
40		Dibenzo(a,h)anthracene	0.400	0.361	9.8	117	-0.05
41		Benzo(g,h,i)perylene	0.400	0.372	7.0	116	-0.05

(#) = 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: TETR06

Lab Code: CHEM Case No.: Q1621 SAS No.: Q1621 SDG No.: Q1621

Instrument ID: BNA_N Calibration Date/Time: 03/27/2025 15:38

Lab File ID: BN036738.D Init. Calib. Date(s): 03/10/2025 03/10/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 11:42 15:19

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.595	0.535		-10.1	20.0
Fluoranthene-d10	1.025	1.046		2.0	20.0
2-Fluorophenol	0.932	0.850		-8.8	20.0
Phenol-d6	1.152	1.009		-12.4	20.0
Nitrobenzene-d5	0.435	0.358		-17.7	20.0
2-Fluorobiphenyl	2.327	2.012		-13.5	20.0
2,4,6-Tribromophenol	0.182	0.176		-3.3	20.0
Terphenyl-d14	0.958	0.790		-17.5	20.0
1,4-Dioxane	0.444	0.473		6.5	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036738.D
Acq On : 27 Mar 2025 15:38
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 27 16:33:11 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.703	152	1523	0.400	ng	-0.02
7) Naphthalene-d8	10.487	136	3803	0.400	ng	-0.02
13) Acenaphthene-d10	14.345	164	2348	0.400	ng	-0.02
19) Phenanthrene-d10	17.086	188	4989	0.400	ng	#-0.02
29) Chrysene-d12	21.277	240	4385	0.400	ng	-0.02
35) Perylene-d12	23.525	264	4045	0.400	ng	#-0.03
System Monitoring Compounds						
4) 2-Fluorophenol	5.290	112	1294	0.365	ng	-0.02
5) Phenol-d6	6.872	99	1536	0.350	ng	-0.03
8) Nitrobenzene-d5	8.854	82	1363	0.329	ng	-0.02
11) 2-Methylnaphthalene-d10	12.085	152	2034	0.360	ng	-0.03
14) 2,4,6-Tribromophenol	15.833	330	414	0.389	ng	-0.02
15) 2-Fluorobiphenyl	12.968	172	4725	0.346	ng	-0.02
27) Fluoranthene-d10	19.122	212	5220	0.408	ng	-0.02
31) Terphenyl-d14	19.726	244	3465	0.330	ng	-0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	3.225	88	721	0.427	ng	93
3) n-Nitrosodimethylamine	3.535	42	1301	0.381	ng	# 99
6) bis(2-Chloroethyl)ether	7.132	93	1533	0.338	ng	95
9) Naphthalene	10.541	128	4045	0.362	ng	98
10) Hexachlorobutadiene	10.829	225	955	0.363	ng	# 98
12) 2-Methylnaphthalene	12.156	142	2514	0.353	ng	96
16) Acenaphthylene	14.056	152	3861	0.348	ng	100
17) Acenaphthene	14.398	154	2582	0.356	ng	99
18) Fluorene	15.392	166	3631	0.370	ng	99
20) 4,6-Dinitro-2-methylph...	15.489	198	370	0.436	ng	81
21) 4-Bromophenyl-phenylether	16.292	248	1147	0.367	ng	# 80
22) Hexachlorobenzene	16.404	284	1358	0.360	ng	97
23) Atrazine	16.565	200	991	0.395	ng	95
24) Pentachlorophenol	16.751	266	662	0.385	ng	95
25) Phenanthrene	17.124	178	5704	0.381	ng	100
26) Anthracene	17.223	178	4989	0.369	ng	99
28) Fluoranthene	19.150	202	6959	0.414	ng	99
30) Pyrene	19.517	202	7305	0.341	ng	100
32) Benzo(a)anthracene	21.259	228	5558	0.365	ng	98
33) Chrysene	21.313	228	6163	0.370	ng	100
34) Bis(2-ethylhexyl)phtha...	21.196	149	3633	0.335	ng	# 98
36) Indeno(1,2,3-cd)pyrene	25.791	276	5346	0.366	ng	98
37) Benzo(b)fluoranthene	22.850	252	5508	0.374	ng	97
38) Benzo(k)fluoranthene	22.893	252	5730m	0.371	ng	
39) Benzo(a)pyrene	23.426	252	4841	0.391	ng	96
40) Dibenzo(a,h)anthracene	25.814	278	4114	0.362	ng	95
41) Benzo(g,h,i)perylene	26.481	276	4859	0.374	ng	97

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

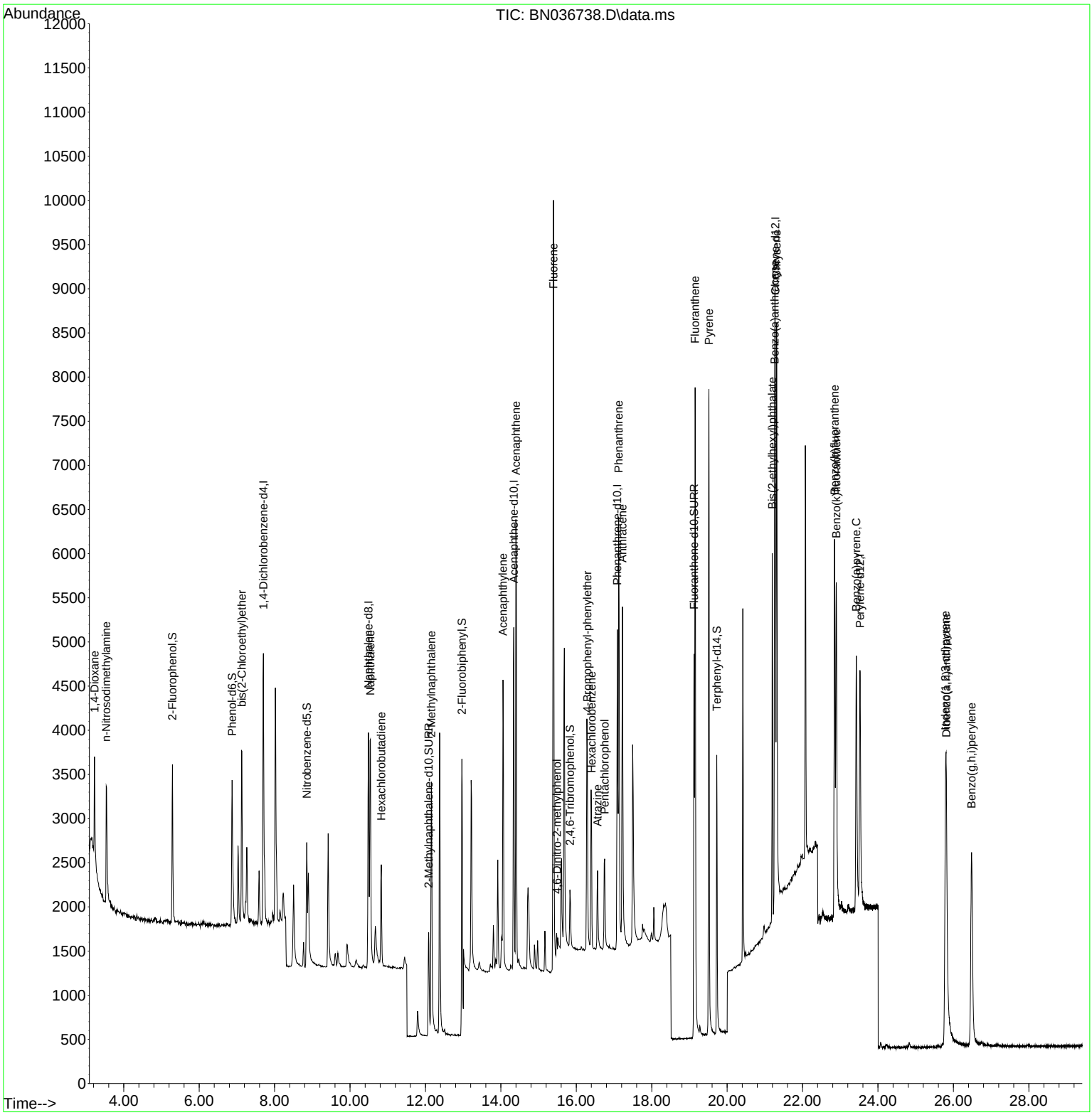
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036738.D
Acq On : 27 Mar 2025 15:38
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

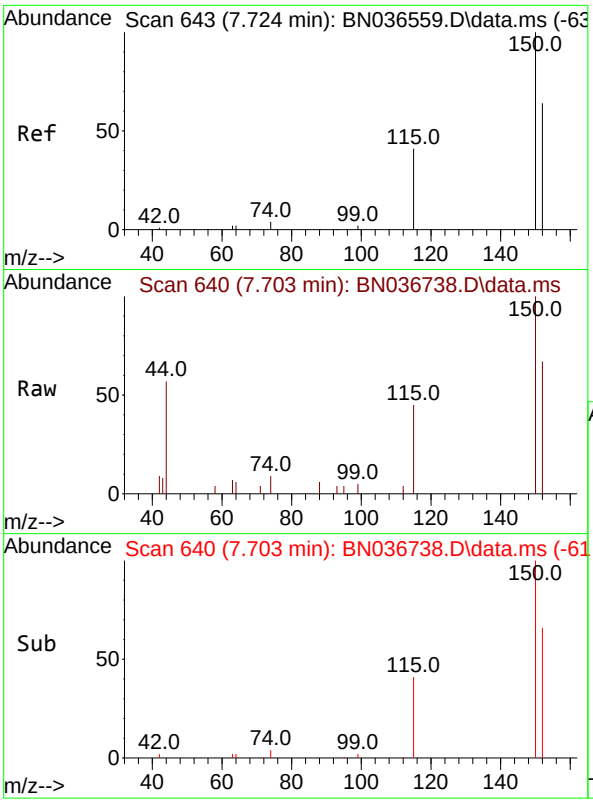
Quant Time: Mar 27 16:33:11 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

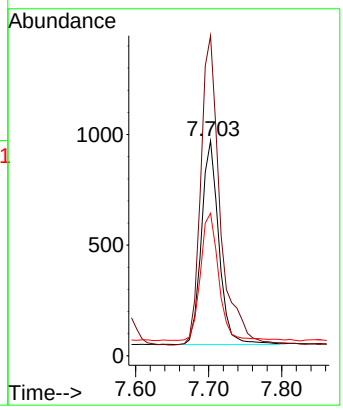




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.703 min Scan# 64
Delta R.T. -0.021 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:152 Resp: 152

Ion	Ratio	Lower	Upper
152	100		
150	148.9	123.7	185.5
115	66.3	54.3	81.5



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/28/2025
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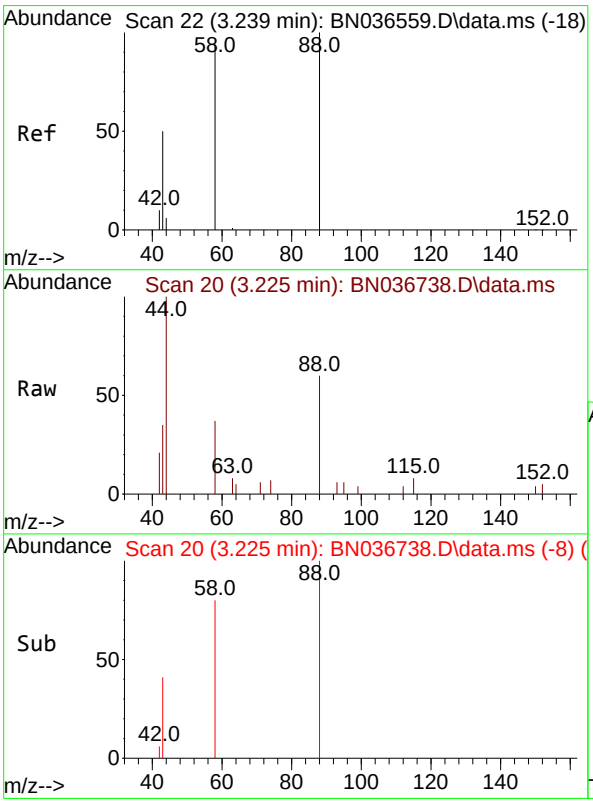
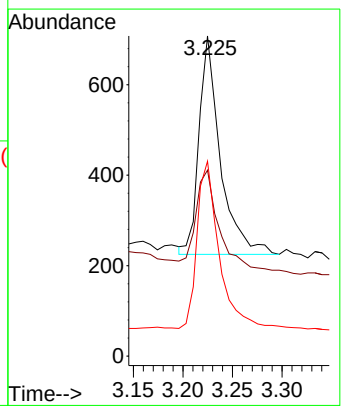
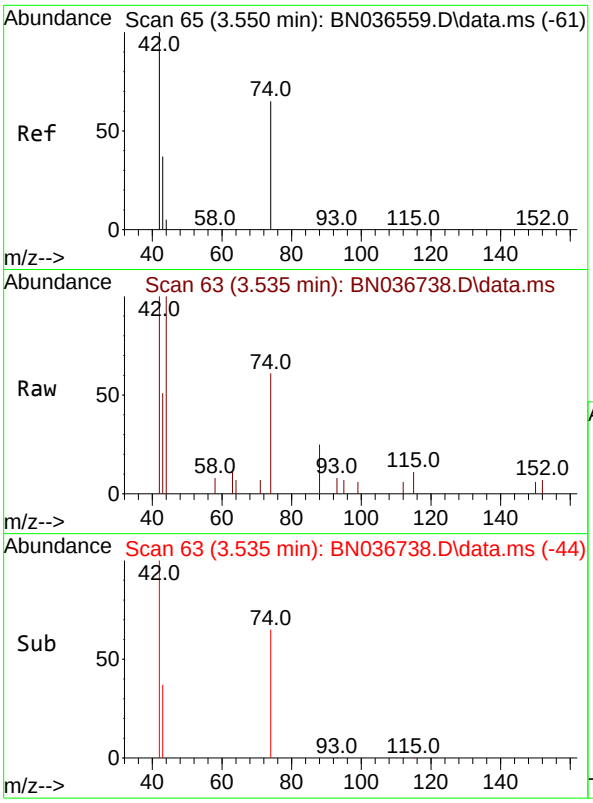


#2
1,4-Dioxane
Concen: 0.427 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion: 88 Resp: 721

Ion	Ratio	Lower	Upper
88	100		
43	52.3	37.8	56.8
58	78.6	67.4	101.2

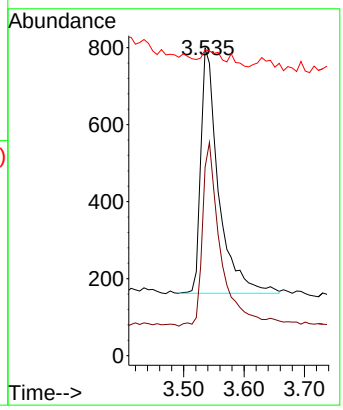




#3
n-Nitrosodimethylamine
Concen: 0.381 ng
RT: 3.535 min Scan# 6
Delta R.T. -0.014 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion: 42 Resp: 130

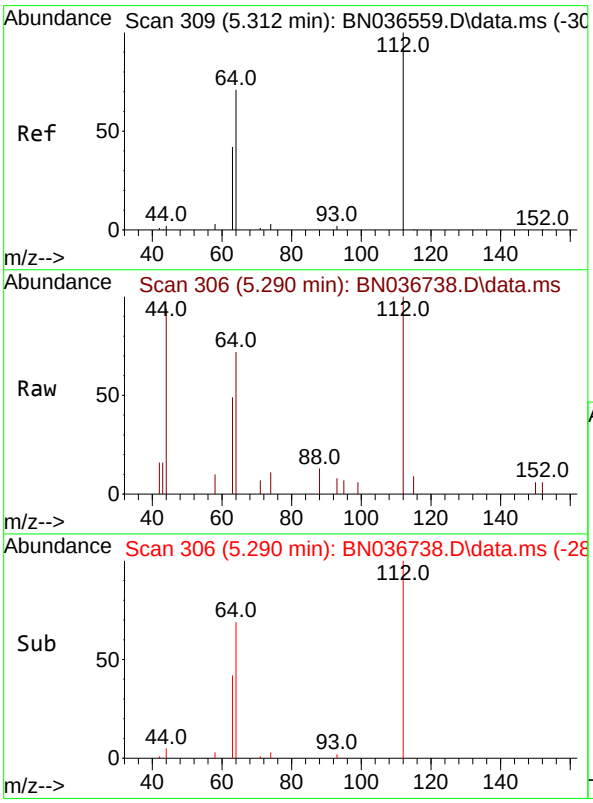
Ion	Ratio	Lower	Upper
42	100		
74	75.9	60.6	90.8
44	4.1	6.3	9.5#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations APPROVED

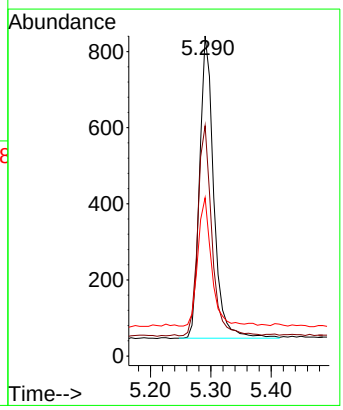
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

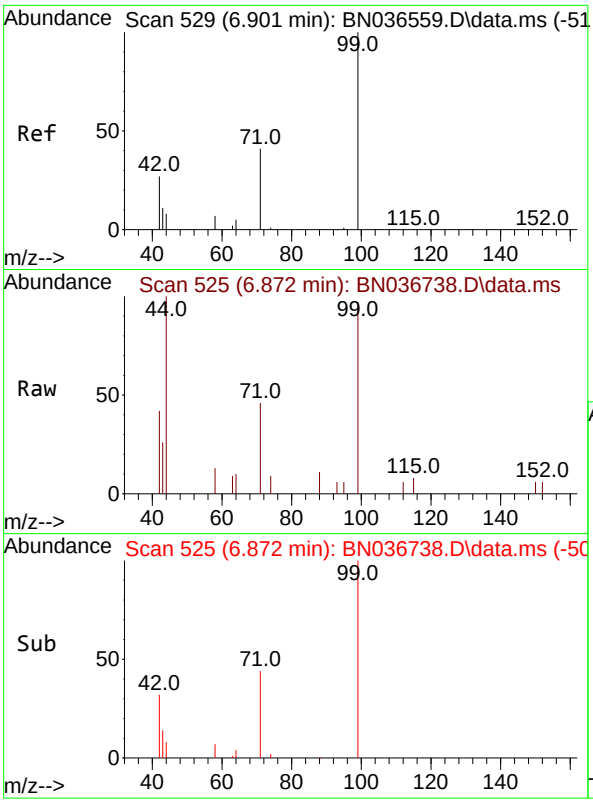


#4
2-Fluorophenol
Concen: 0.365 ng
RT: 5.290 min Scan# 306
Delta R.T. -0.022 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:112 Resp: 1294

Ion	Ratio	Lower	Upper
112	100		
64	69.9	53.1	79.7
63	40.8	31.8	47.8

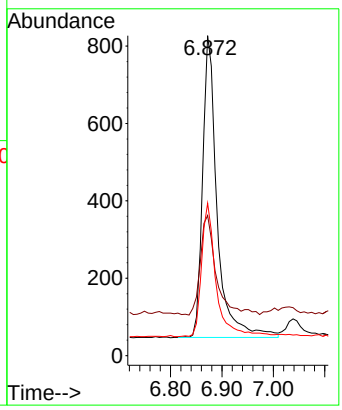




#5
Phenol-d6
Concen: 0.350 ng
RT: 6.872 min Scan# 5
Delta R.T. -0.029 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion: 99 Resp: 153

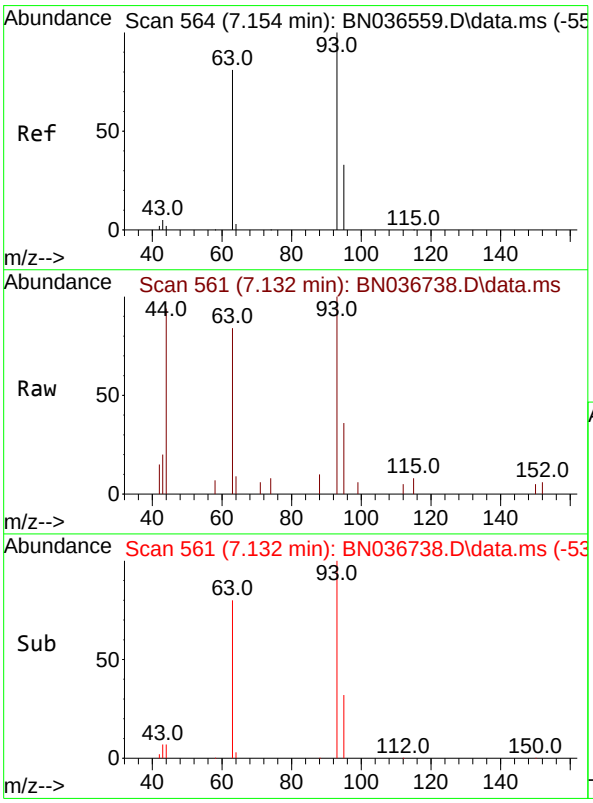
Ion	Ratio	Lower	Upper
99	100		
42	35.2	26.5	39.7
71	44.3	34.1	51.1



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

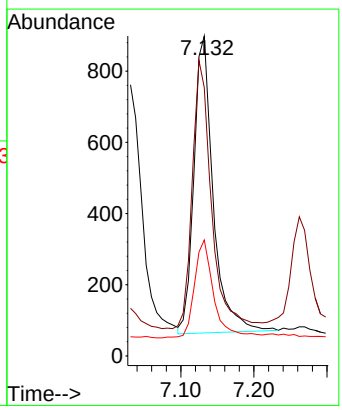
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

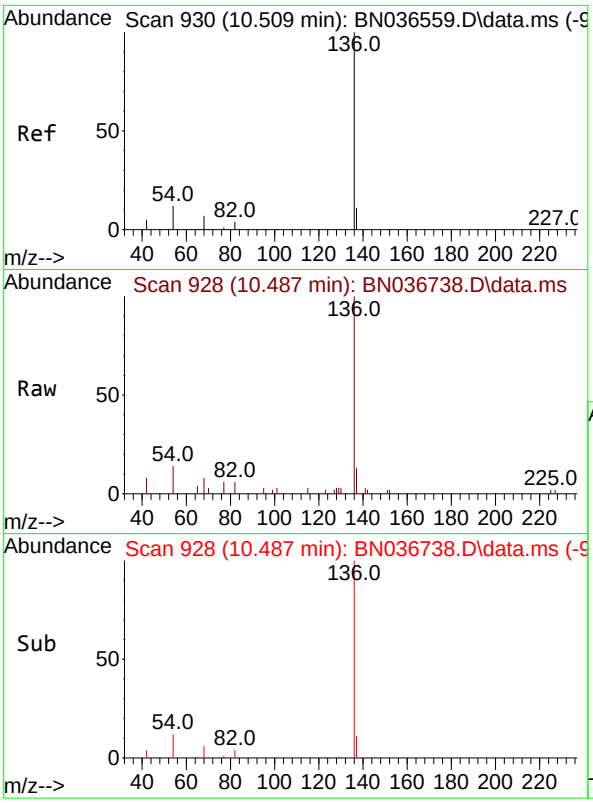


#6
bis(2-Chloroethyl)ether
Concen: 0.338 ng
RT: 7.132 min Scan# 561
Delta R.T. -0.022 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion: 93 Resp: 1533

Ion	Ratio	Lower	Upper
93	100		
63	90.0	67.7	101.5
95	33.1	25.6	38.4

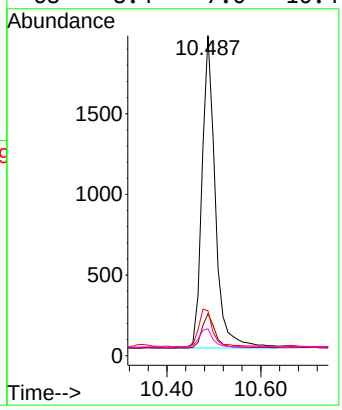




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.487 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:136 Resp: 380

Ion	Ratio	Lower	Upper
136	100		
137	13.1	10.3	15.5
54	14.0	11.5	17.3
68	8.4	7.0	10.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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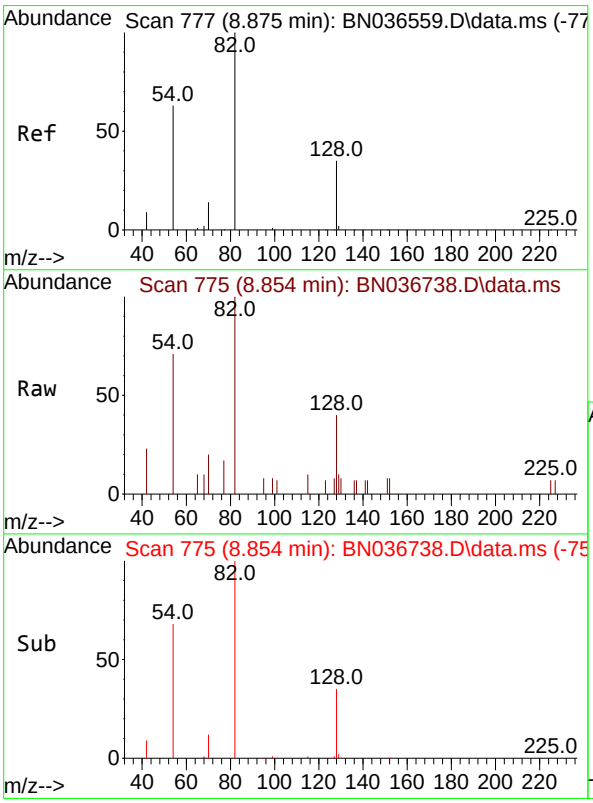
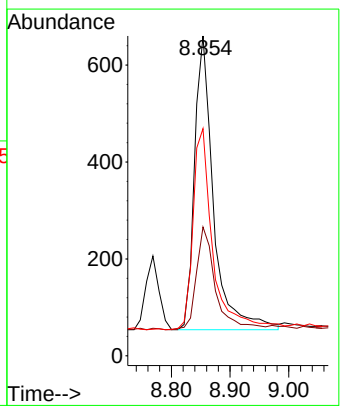
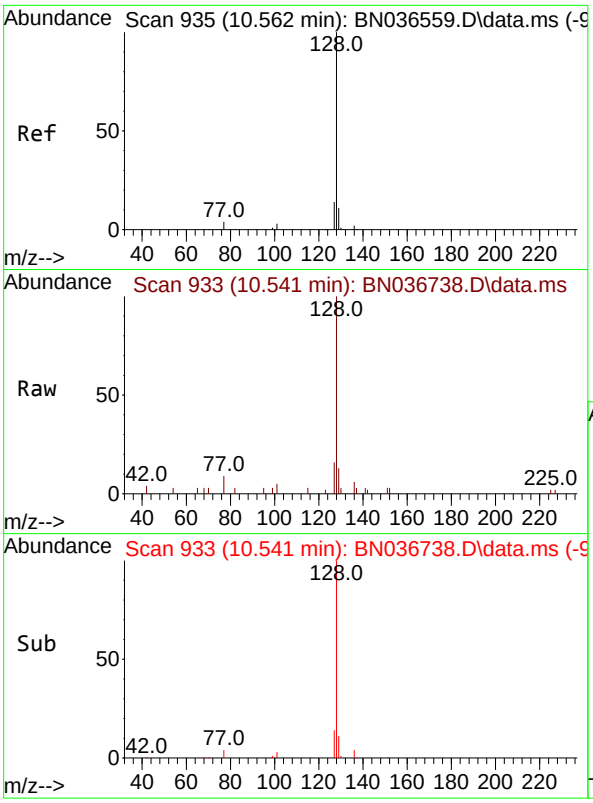


#8
Nitrobenzene-d5
Concen: 0.329 ng
RT: 8.854 min Scan# 775
Delta R.T. -0.021 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion: 82 Resp: 1363

Ion	Ratio	Lower	Upper
82	100		
128	40.3	30.6	45.8
54	71.1	52.2	78.4

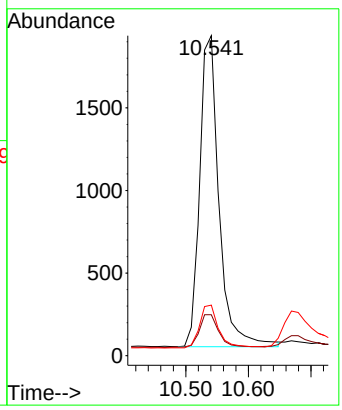




#9
Naphthalene
Concen: 0.362 ng
RT: 10.541 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:128 Resp: 404

Ion	Ratio	Lower	Upper
128	100		
129	12.8	9.8	14.6
127	15.8	11.8	17.8



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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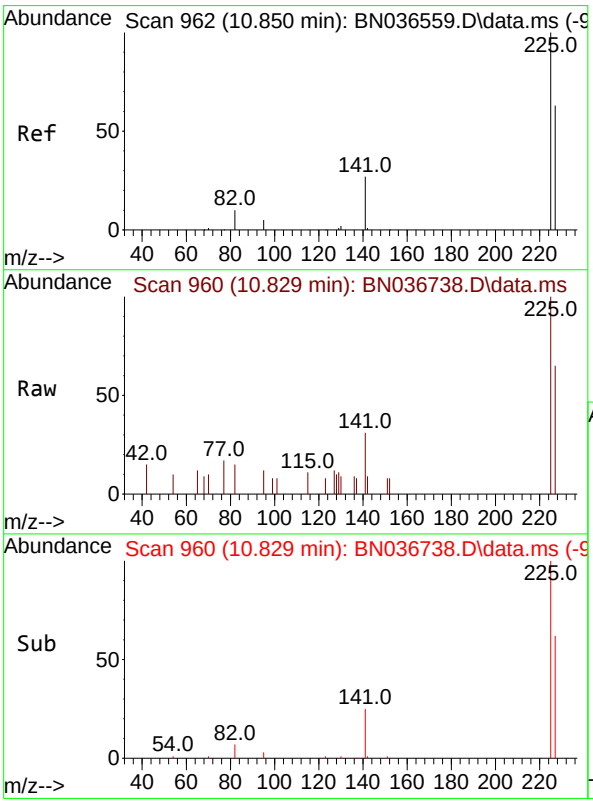
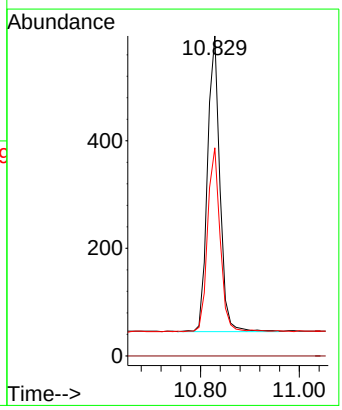
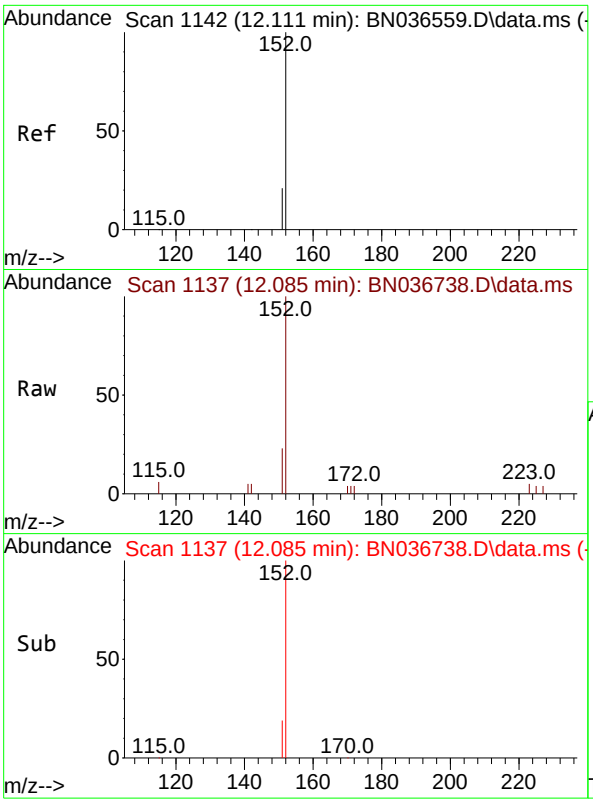


#10
Hexachlorobutadiene
Concen: 0.363 ng
RT: 10.829 min Scan# 960
Delta R.T. -0.021 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:225 Resp: 955

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.4	51.8	77.8





#11
2-Methylnaphthalene-d10
Concen: 0.360 ng
RT: 12.085 min Scan# 11
Delta R.T. -0.025 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:152 Resp: 203

Ion	Ratio	Lower	Upper
152	100		
151	20.9	17.0	25.6

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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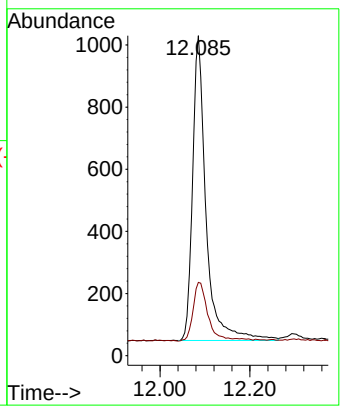
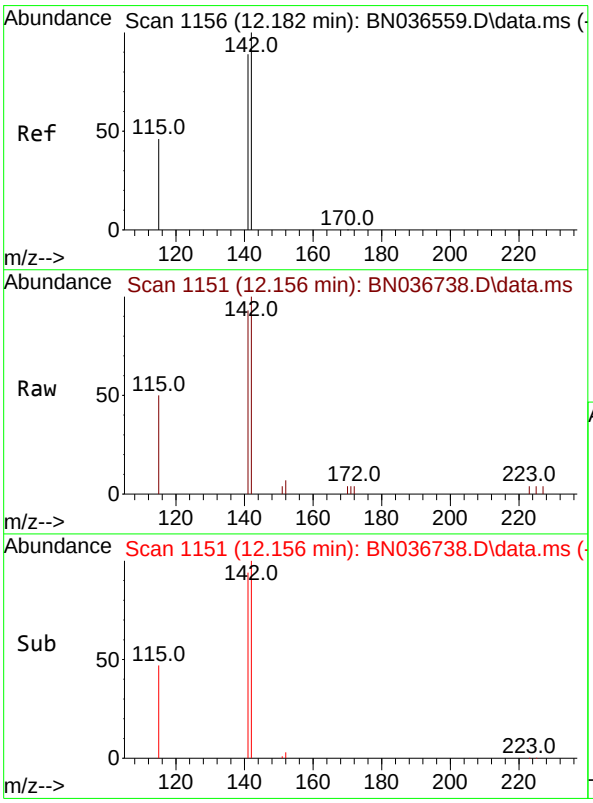
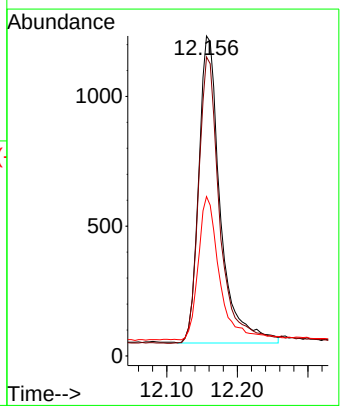


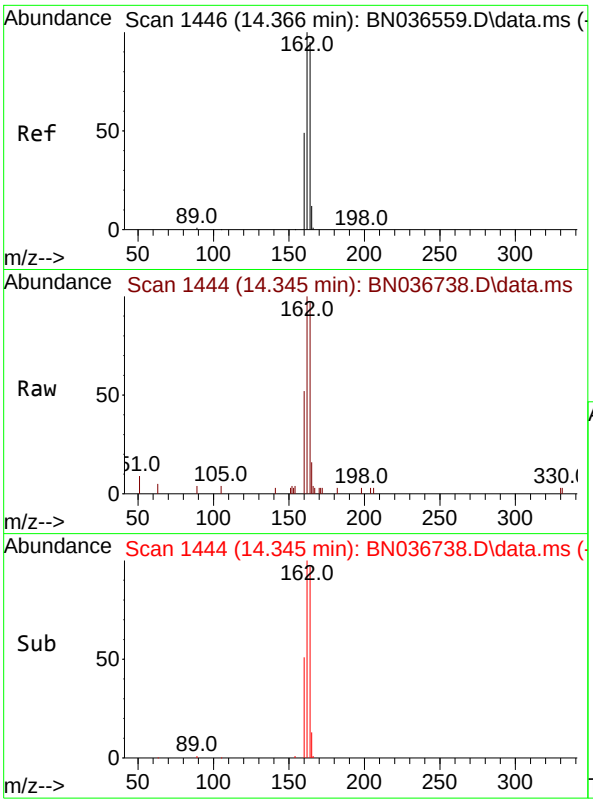


#12
2-Methylnaphthalene
Concen: 0.353 ng
RT: 12.156 min Scan# 1151
Delta R.T. -0.025 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:142 Resp: 2514

Ion	Ratio	Lower	Upper
142	100		
141	93.4	71.7	107.5
115	49.8	38.3	57.5

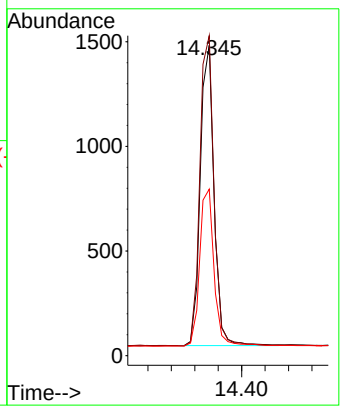




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 14
Delta R.T. -0.021 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:164 Resp: 234

Ion	Ratio	Lower	Upper
164	100		
162	103.1	84.2	126.2
160	53.7	42.2	63.2



Instrument :
BNA_N
ClientSampleId :
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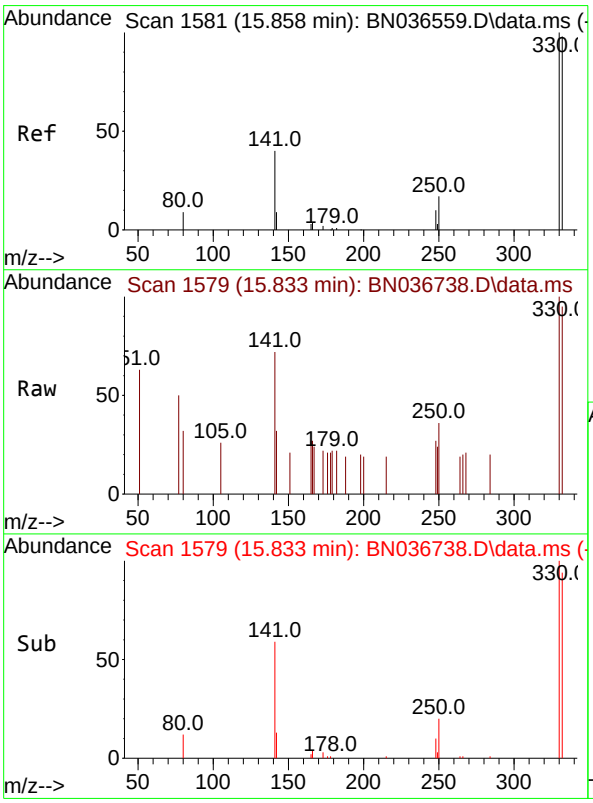
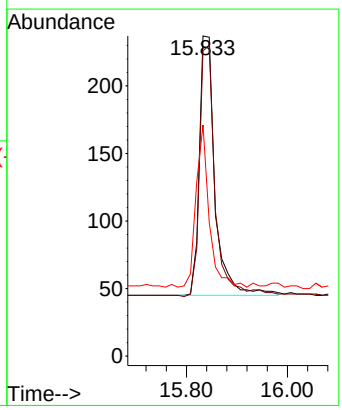
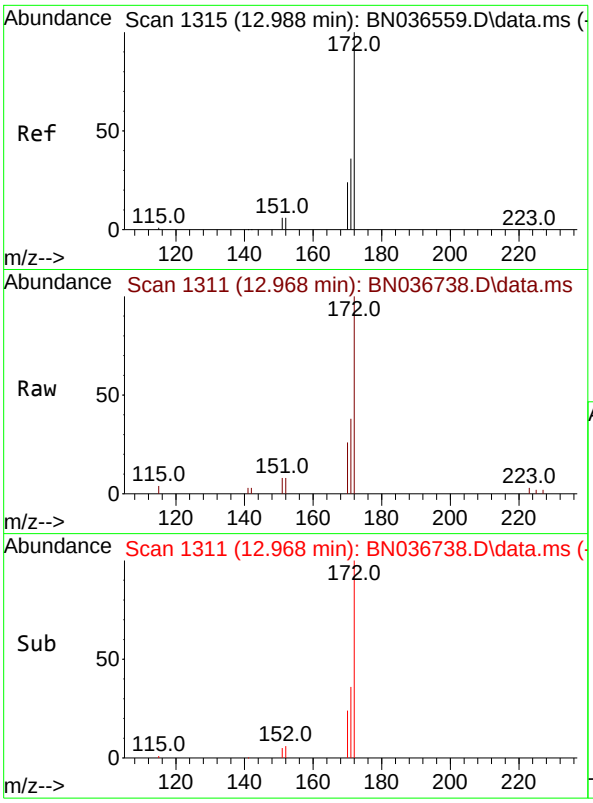


#14
2,4,6-Tribromophenol
Concen: 0.389 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.025 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:330 Resp: 414

Ion	Ratio	Lower	Upper
330	100		
332	97.6	75.2	112.8
141	52.7	43.4	65.2

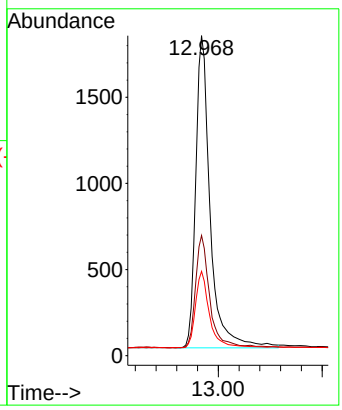




#15
2-Fluorobiphenyl
Concen: 0.346 ng
RT: 12.968 min Scan# 1
Delta R.T. -0.020 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:172 Resp: 472

Ion	Ratio	Lower	Upper
172	100		
171	37.6	29.5	44.3
170	26.3	20.2	30.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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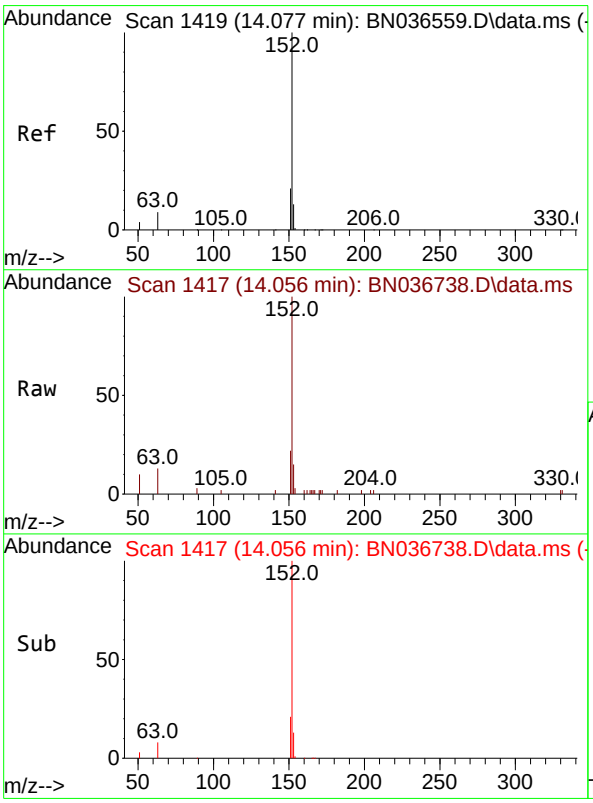
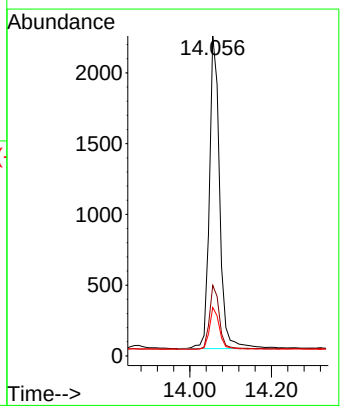
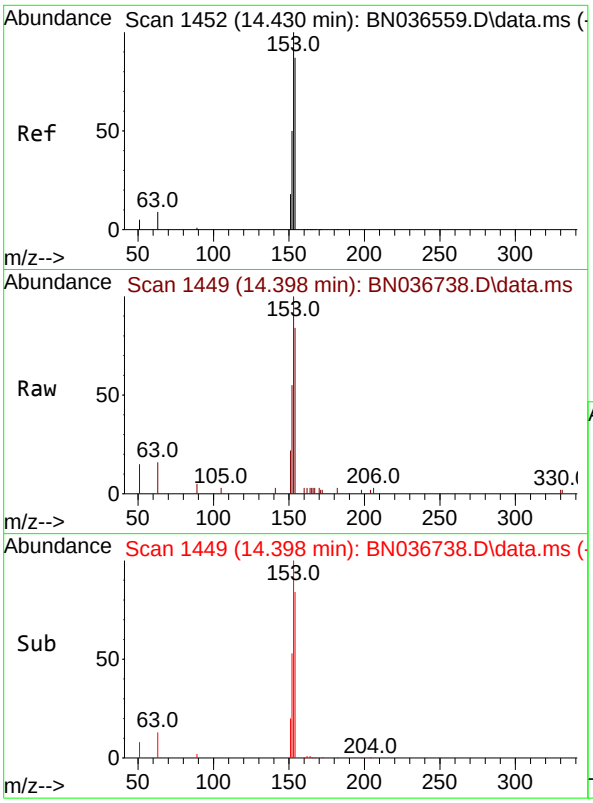


#16
Acenaphthylene
Concen: 0.348 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.021 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:152 Resp: 3861

Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.2	24.4
153	13.1	10.6	15.8

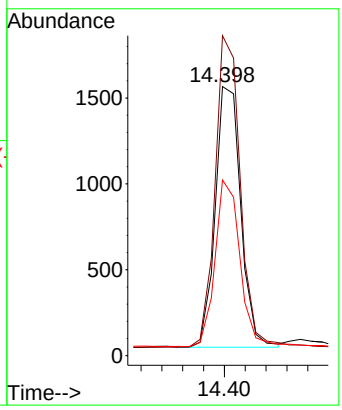




#17
Acenaphthene
Concen: 0.356 ng
RT: 14.398 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:154 Resp: 258

Ion	Ratio	Lower	Upper
154	100		
153	119.8	94.1	141.1
152	62.5	49.8	74.6



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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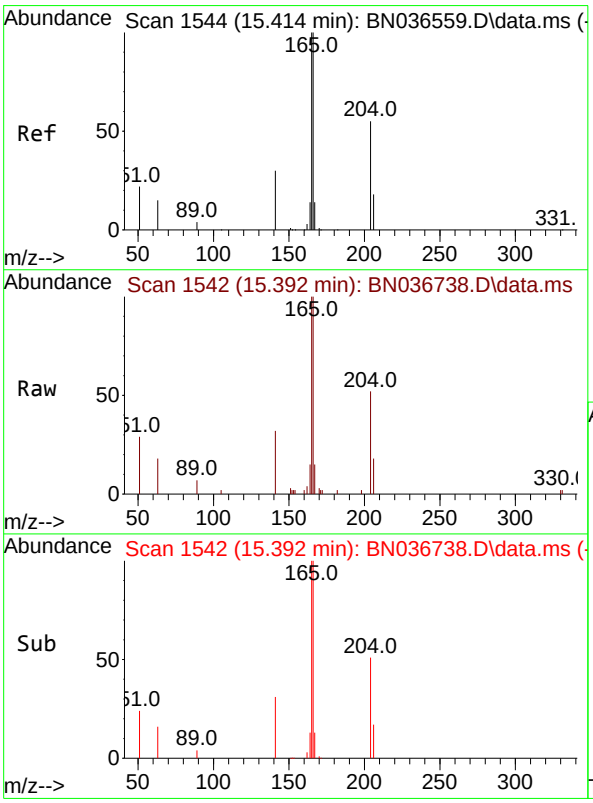
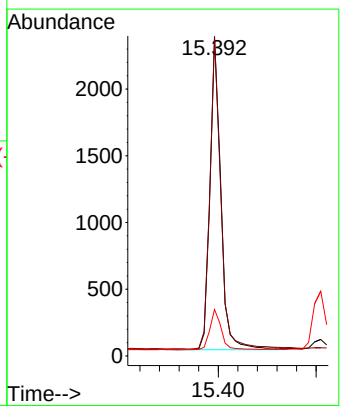
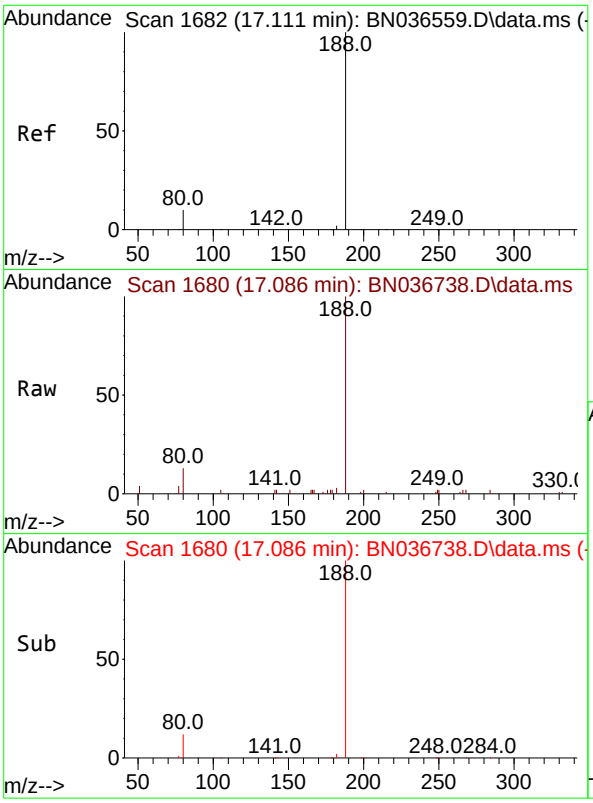


#18
Fluorene
Concen: 0.370 ng
RT: 15.392 min Scan# 1542
Delta R.T. -0.021 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:166 Resp: 3631

Ion	Ratio	Lower	Upper
166	100		
165	100.9	79.8	119.8
167	13.7	10.6	15.8

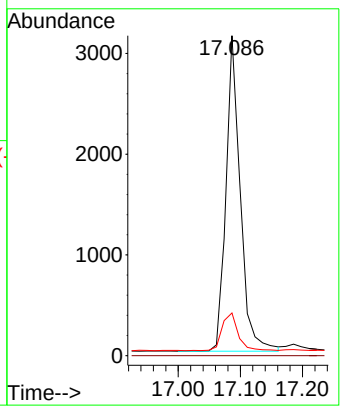




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:188 Resp: 498

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	13.4	8.8	13.2#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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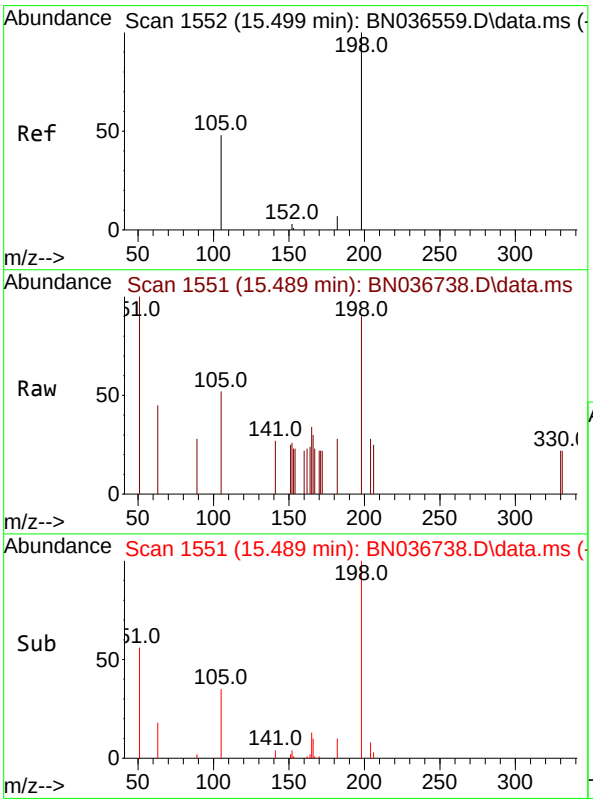
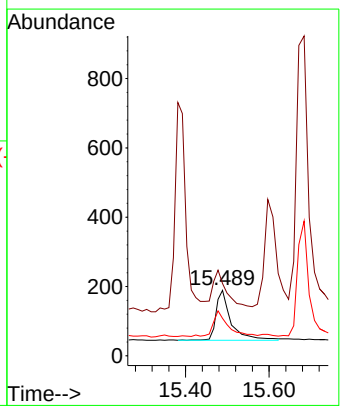
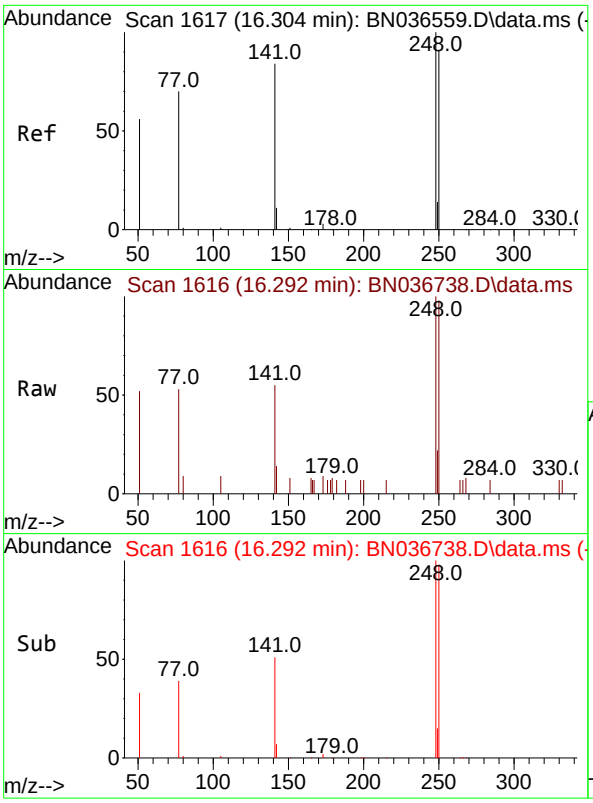


#20
4,6-Dinitro-2-methylphenol
Concen: 0.436 ng
RT: 15.489 min Scan# 1551
Delta R.T. -0.010 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:198 Resp: 370

Ion	Ratio	Lower	Upper
198	100		
51	110.6	107.9	161.9
105	57.1	56.2	84.2

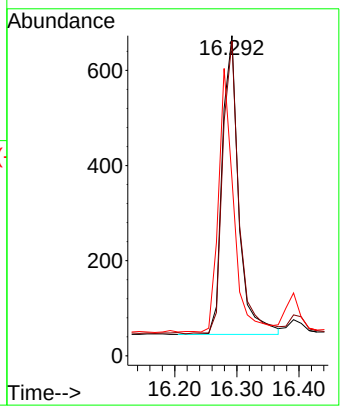




#21
4-Bromophenyl-phenylether
Concen: 0.367 ng
RT: 16.292 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:248 Resp: 114

Ion	Ratio	Lower	Upper
248	100		
250	98.4	73.0	109.6
141	55.3	68.6	103.0#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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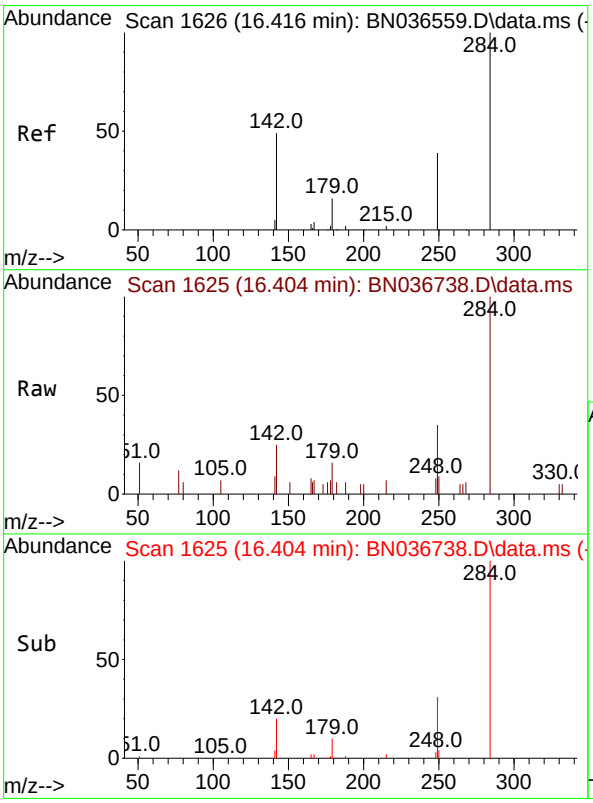
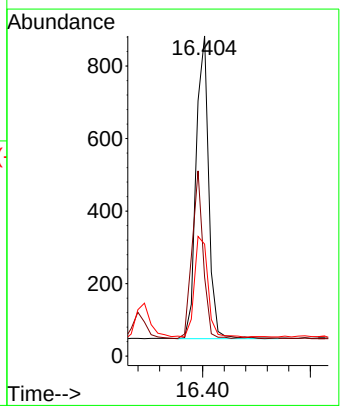
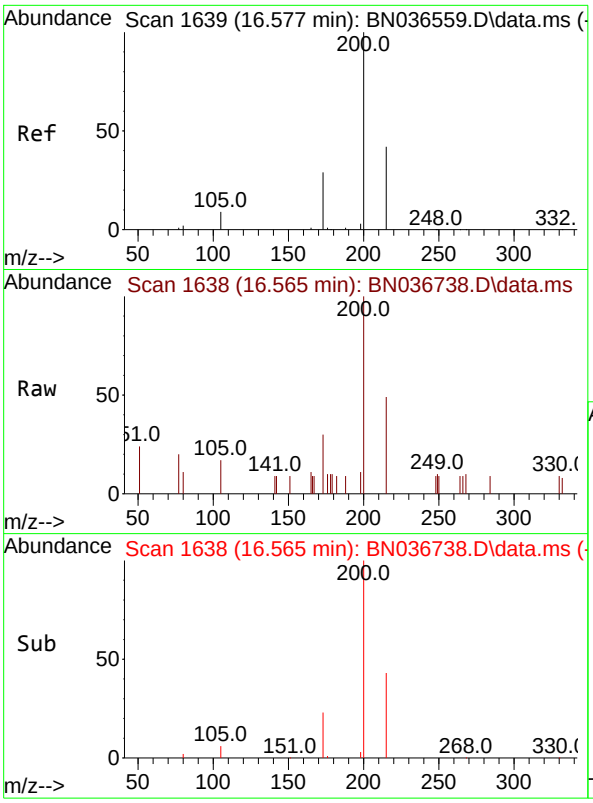


#22
Hexachlorobenzene
Concen: 0.360 ng
RT: 16.404 min Scan# 1625
Delta R.T. -0.012 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:284 Resp: 1358

Ion	Ratio	Lower	Upper
284	100		
142	48.9	37.0	55.4
249	36.3	28.1	42.1





#23
Atrazine
Concen: 0.395 ng
RT: 16.565 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:200 Resp: 99

Ion	Ratio	Lower	Upper
200	100		
173	30.1	27.3	40.9
215	48.9	36.8	55.2

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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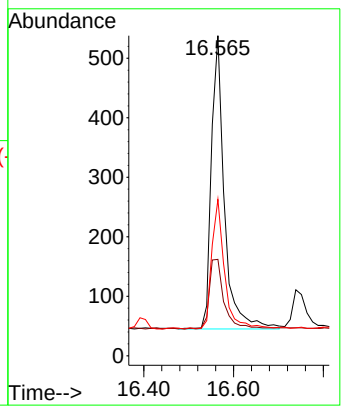
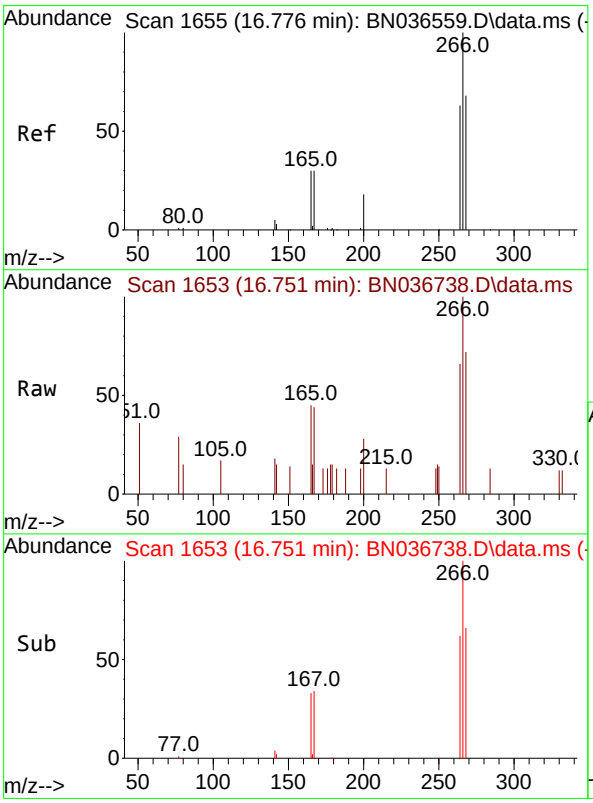
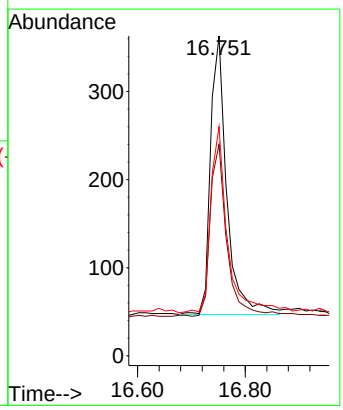


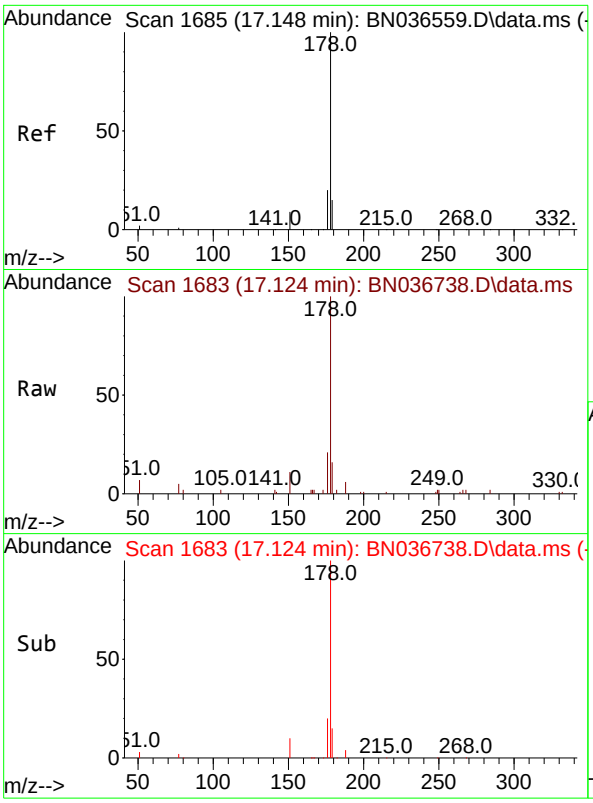


#24
Pentachlorophenol
Concen: 0.385 ng
RT: 16.751 min Scan# 1653
Delta R.T. -0.025 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:266 Resp: 662

Ion	Ratio	Lower	Upper
266	100		
264	63.6	49.6	74.4
268	69.5	50.9	76.3

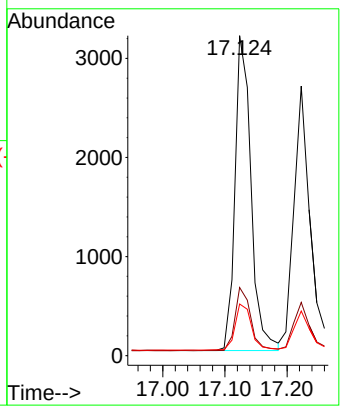




#25
Phenanthrene
Concen: 0.381 ng
RT: 17.124 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:178 Resp: 570

Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.9	23.9
179	15.1	12.2	18.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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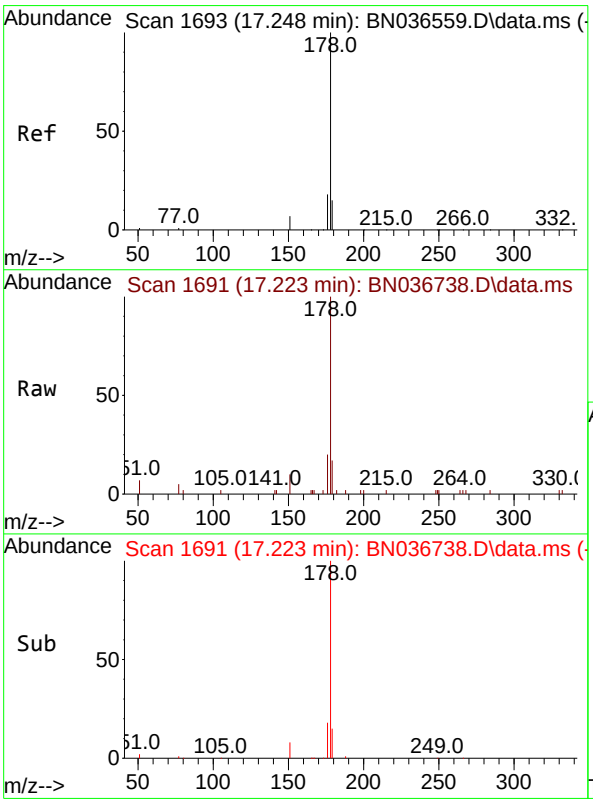
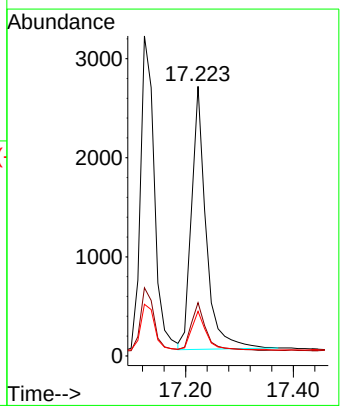
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

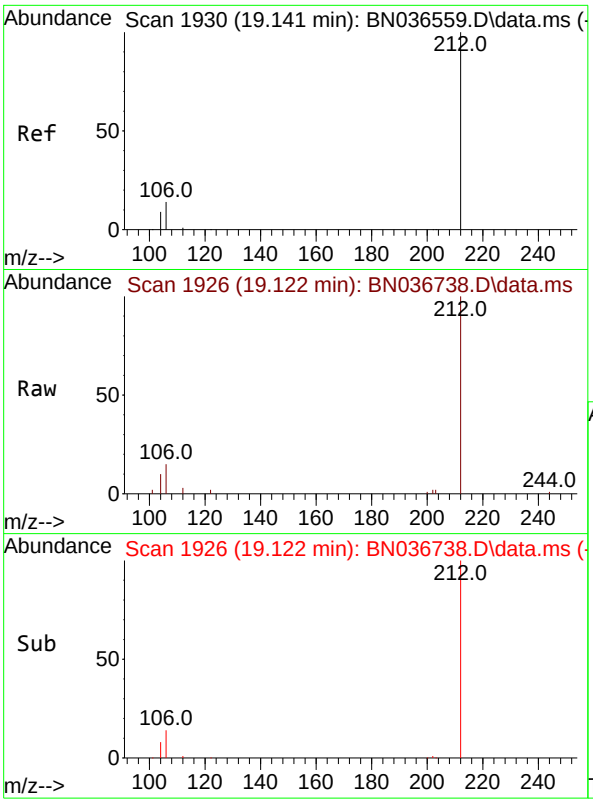


#26
Anthracene
Concen: 0.369 ng
RT: 17.223 min Scan# 1691
Delta R.T. -0.025 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:178 Resp: 4989

Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.4	23.2
179	15.2	12.6	18.8

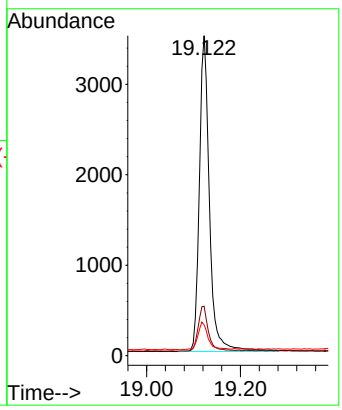




#27
Fluoranthene-d10
Concen: 0.408 ng
RT: 19.122 min Scan# 1
Delta R.T. -0.019 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:212 Resp: 522

Ion	Ratio	Lower	Upper
212	100		
106	14.4	11.8	17.6
104	8.9	7.3	10.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
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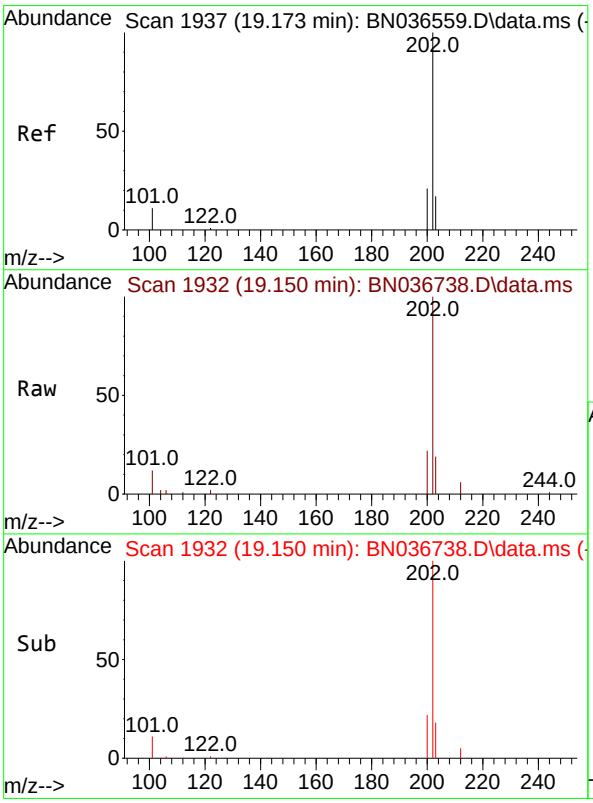
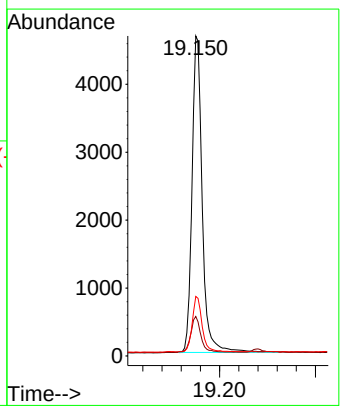
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

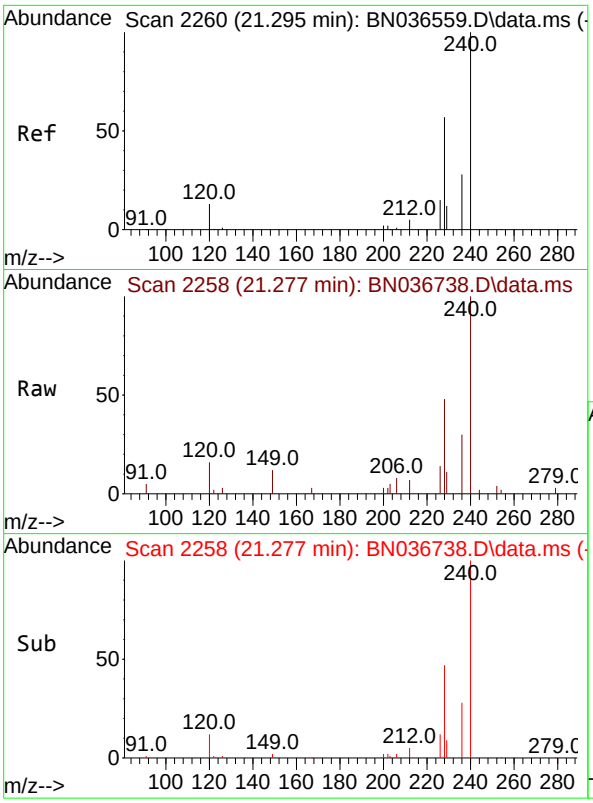


#28
Fluoranthene
Concen: 0.414 ng
RT: 19.150 min Scan# 1932
Delta R.T. -0.023 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:202 Resp: 6959

Ion	Ratio	Lower	Upper
202	100		
101	11.2	9.4	14.0
203	17.1	13.5	20.3

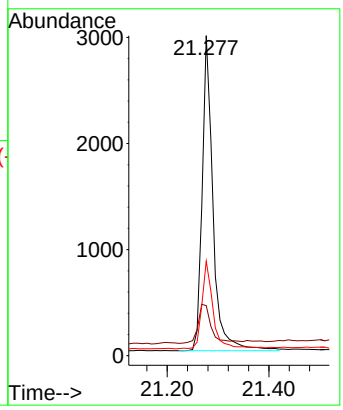




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:240 Resp: 438

Ion	Ratio	Lower	Upper
240	100		
120	15.7	14.6	22.0
236	29.5	24.1	36.1



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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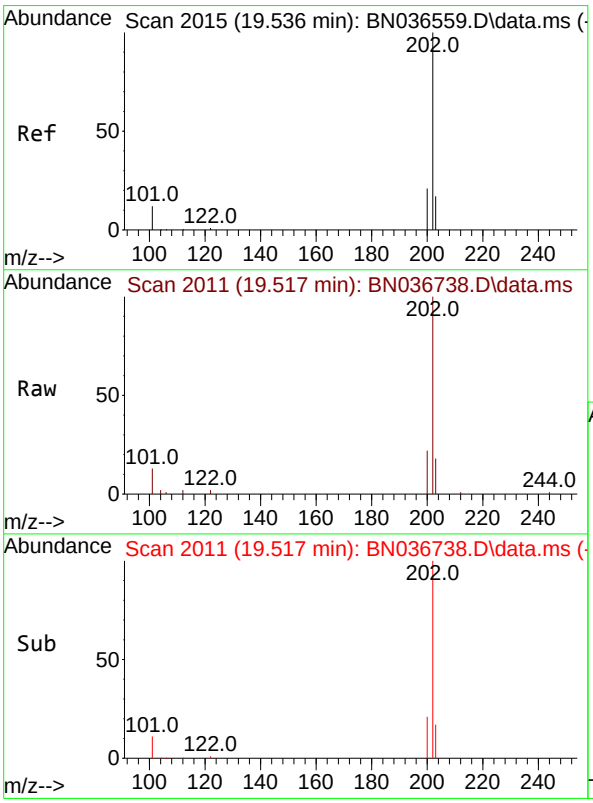
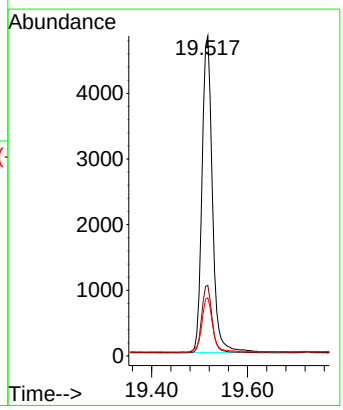
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

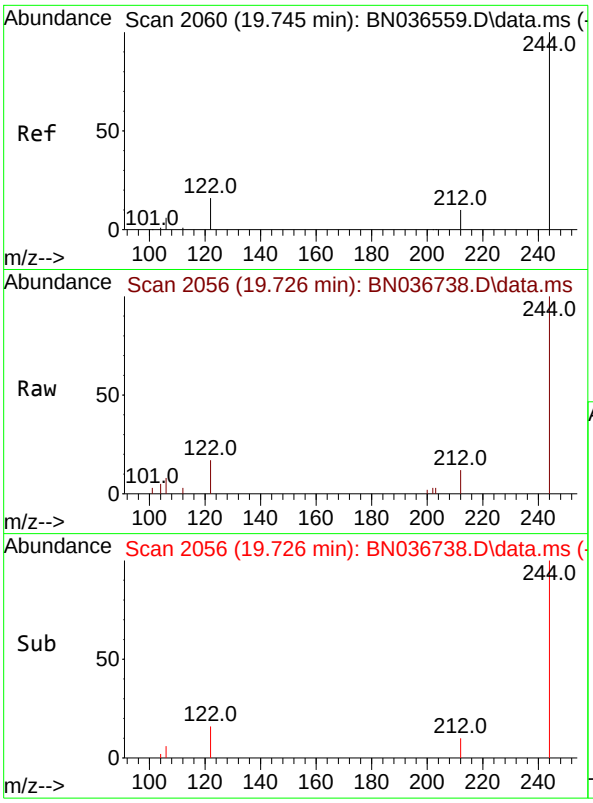


#30
Pyrene
Concen: 0.341 ng
RT: 19.517 min Scan# 2011
Delta R.T. -0.019 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:202 Resp: 7305

Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.1	25.7
203	17.8	14.1	21.1





#31
Terphenyl-d14
Concen: 0.330 ng
RT: 19.726 min Scan# 2
Delta R.T. -0.019 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:244 Resp: 346

Ion	Ratio	Lower	Upper
244	100		
212	12.2	9.6	14.4
122	17.4	13.9	20.9

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
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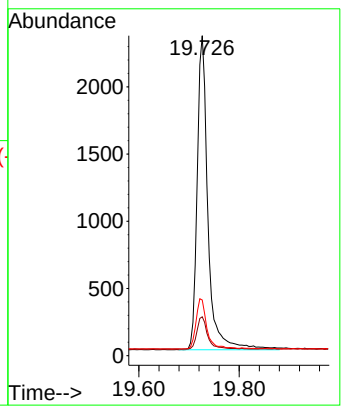
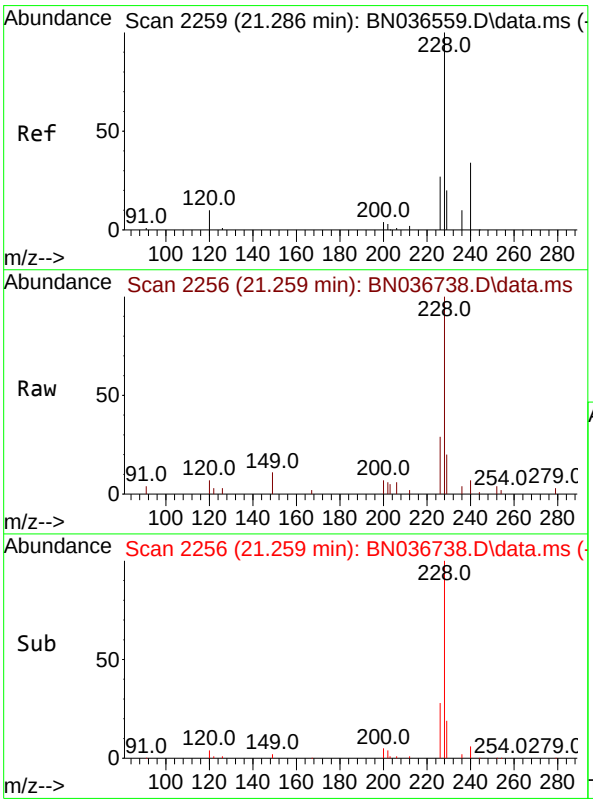
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

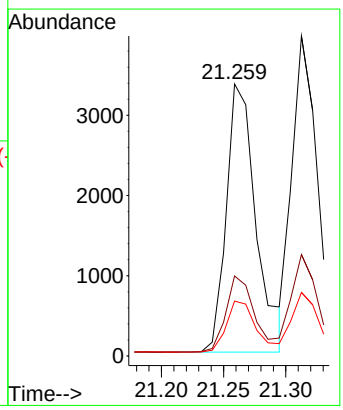


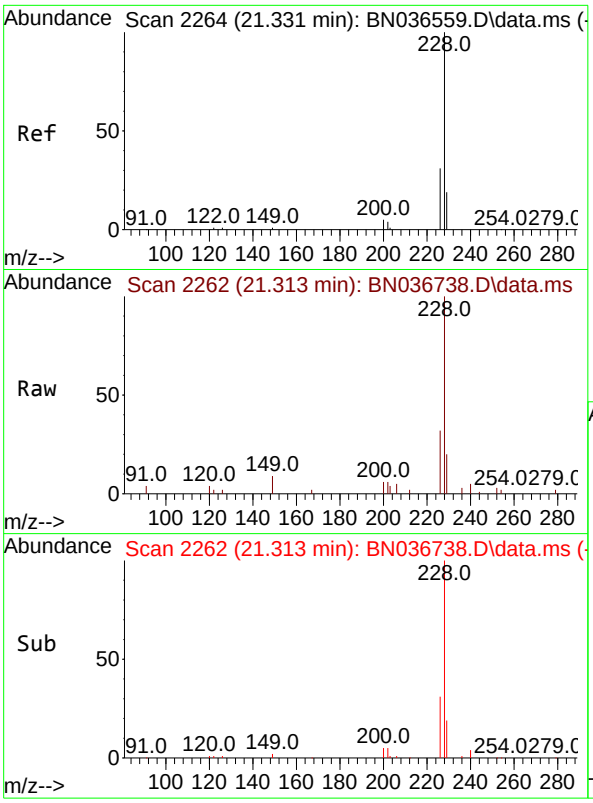


#32
Benzo(a)anthracene
Concen: 0.365 ng
RT: 21.259 min Scan# 2256
Delta R.T. -0.027 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:228 Resp: 5558

Ion	Ratio	Lower	Upper
228	100		
226	29.4	22.5	33.7
229	20.2	16.6	25.0

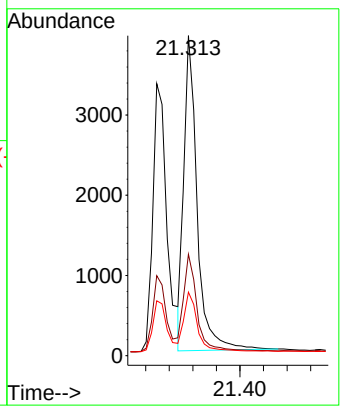




#33
Chrysene
Concen: 0.370 ng
RT: 21.313 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:228 Resp: 616

Ion	Ratio	Lower	Upper
228	100		
226	31.7	25.3	37.9
229	19.8	15.8	23.8



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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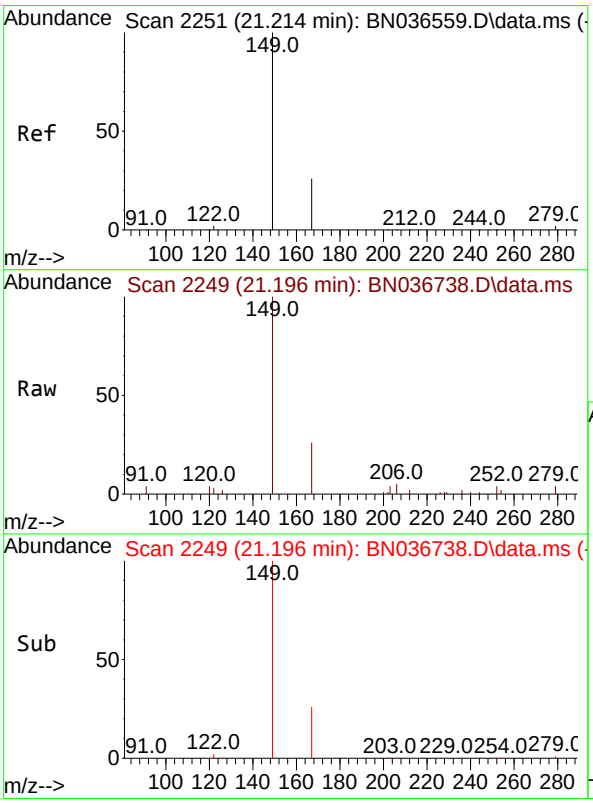
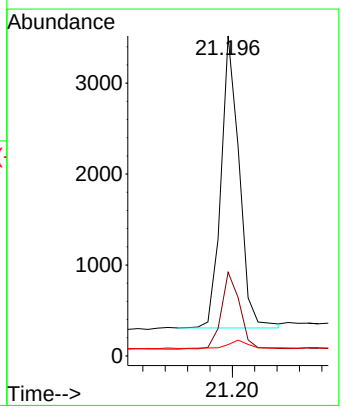
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

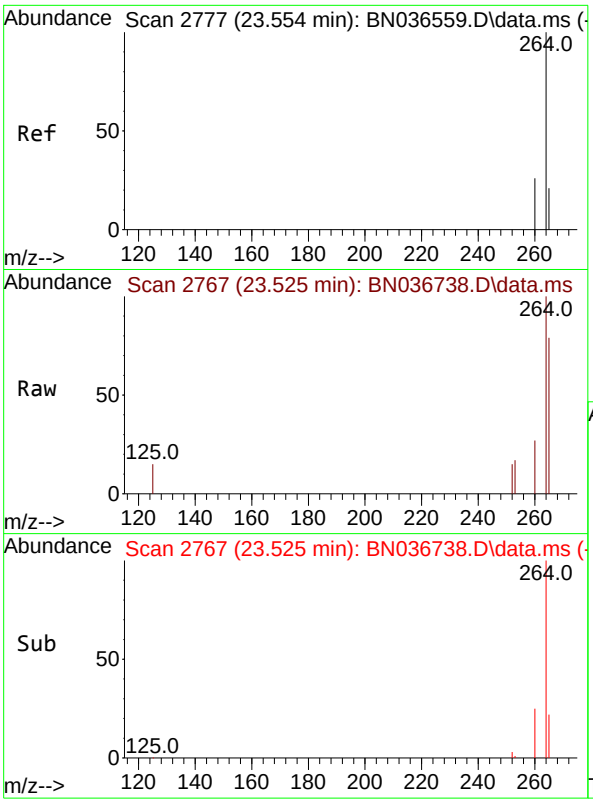


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.335 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:149 Resp: 3633

Ion	Ratio	Lower	Upper
149	100		
167	26.6	20.7	31.1
279	3.2	3.6	5.4#

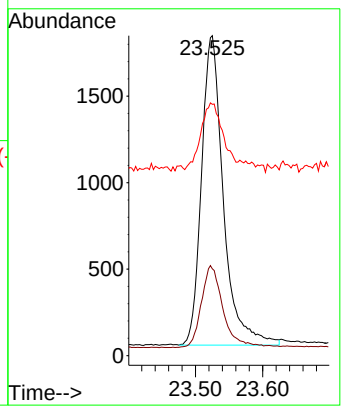




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.525 min Scan# 2
Delta R.T. -0.029 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:264 Resp: 404

Ion	Ratio	Lower	Upper
264	100		
260	27.1	22.6	33.8
265	78.5	88.1	132.1#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
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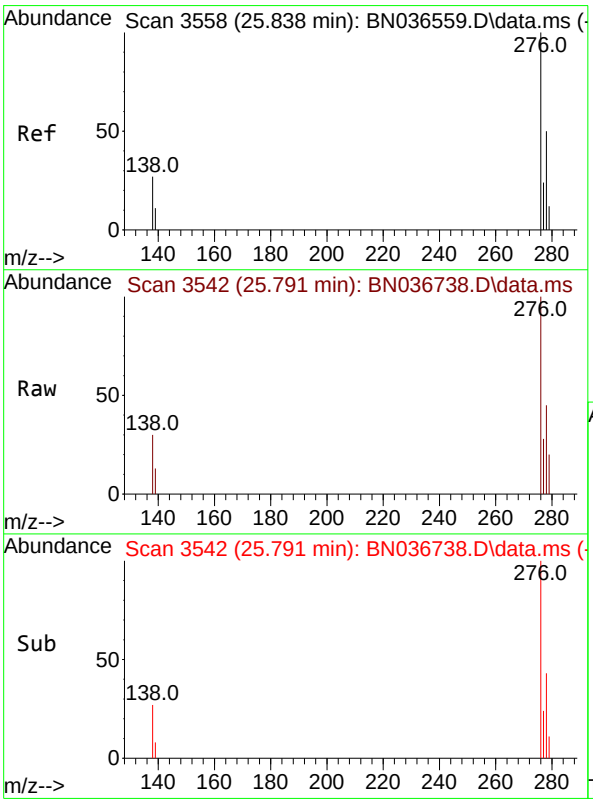
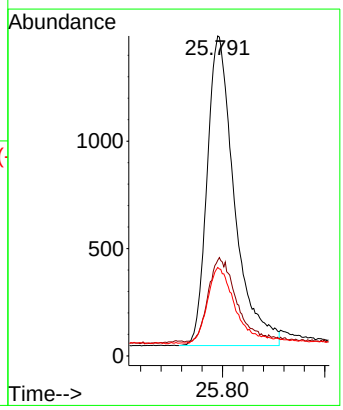
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

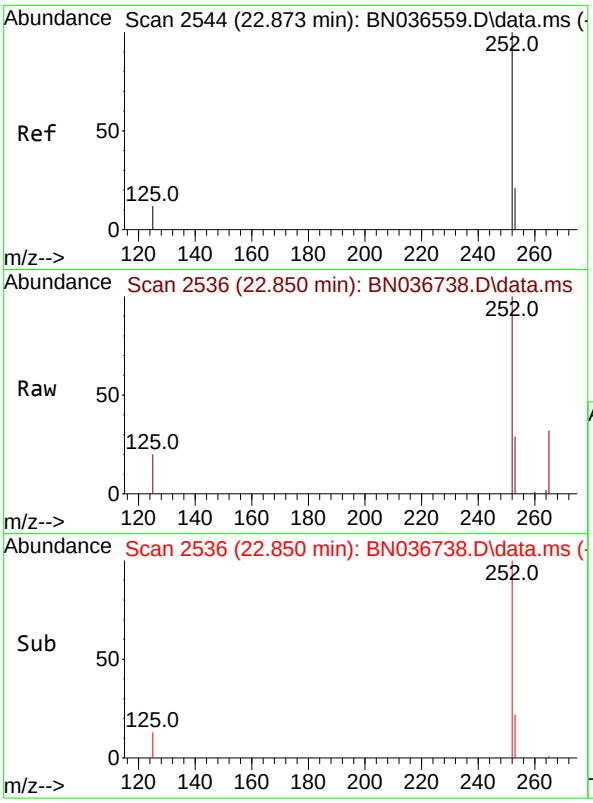


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.366 ng
RT: 25.791 min Scan# 3542
Delta R.T. -0.047 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:276 Resp: 5346

Ion	Ratio	Lower	Upper
276	100		
138	27.7	23.4	35.2
277	24.9	20.0	30.0

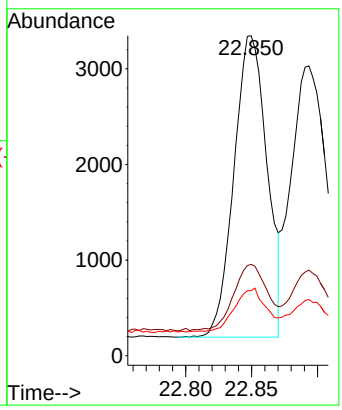




#37
Benzo(b)fluoranthene
Concen: 0.374 ng
RT: 22.850 min Scan# 2
Delta R.T. -0.023 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:252 Resp: 550

Ion	Ratio	Lower	Upper
252	100		
253	28.6	23.9	35.9
125	20.3	17.4	26.2



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
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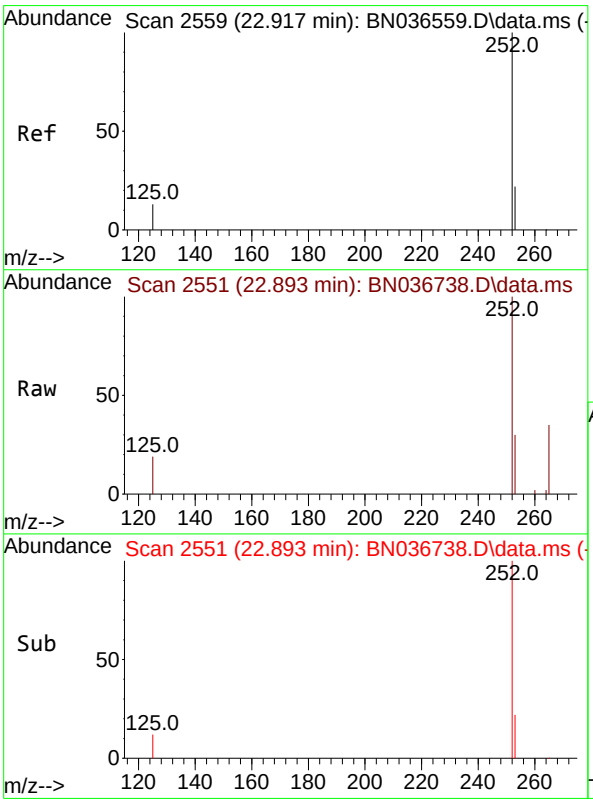
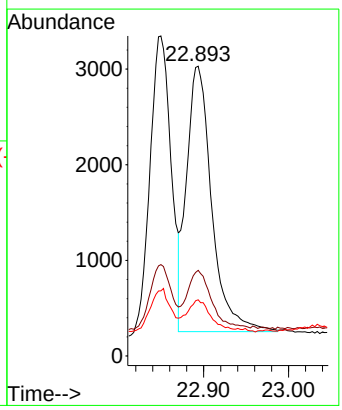
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

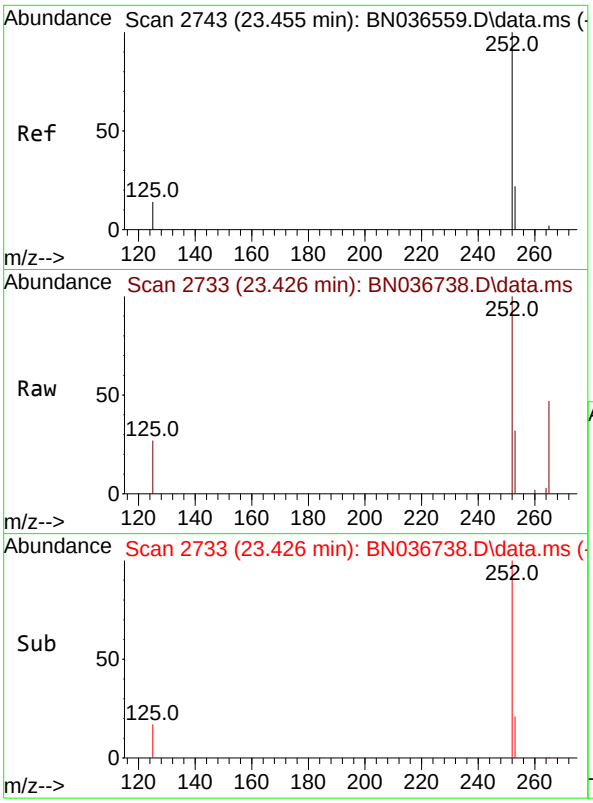


#38
Benzo(k)fluoranthene
Concen: 0.371 ng m
RT: 22.893 min Scan# 2551
Delta R.T. -0.023 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:252 Resp: 5730

Ion	Ratio	Lower	Upper
252	100		
253	29.6	24.6	36.8
125	19.4	17.8	26.8





#39
Benzo(a)pyrene
Concen: 0.391 ng
RT: 23.426 min Scan# 2
Delta R.T. -0.029 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:252 Resp: 484

Ion	Ratio	Lower	Upper
252	100		
253	31.6	27.8	41.8
125	26.8	22.7	34.1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
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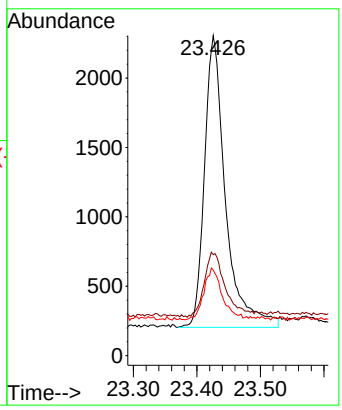
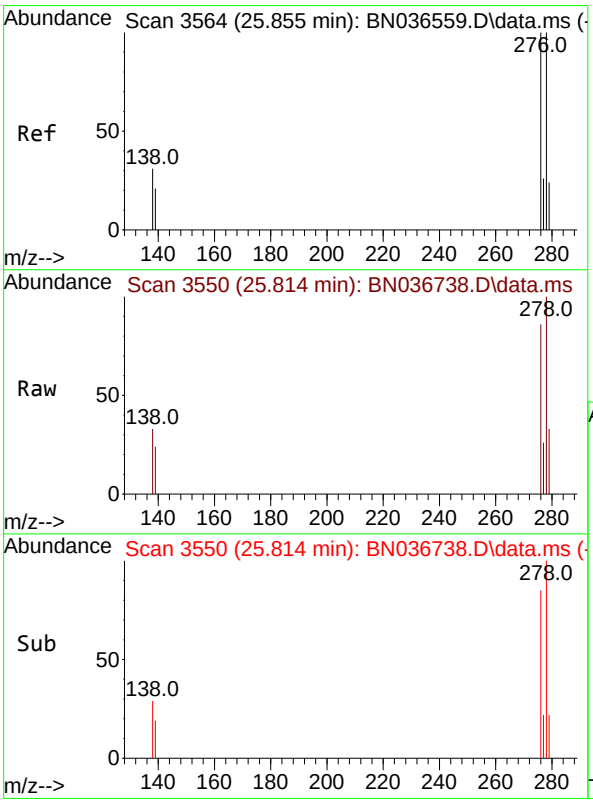
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

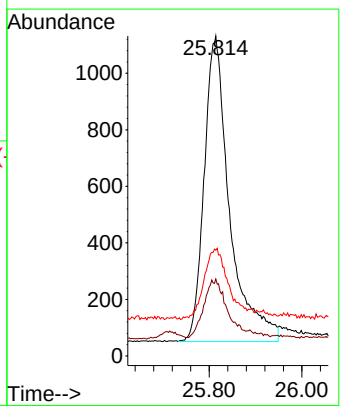


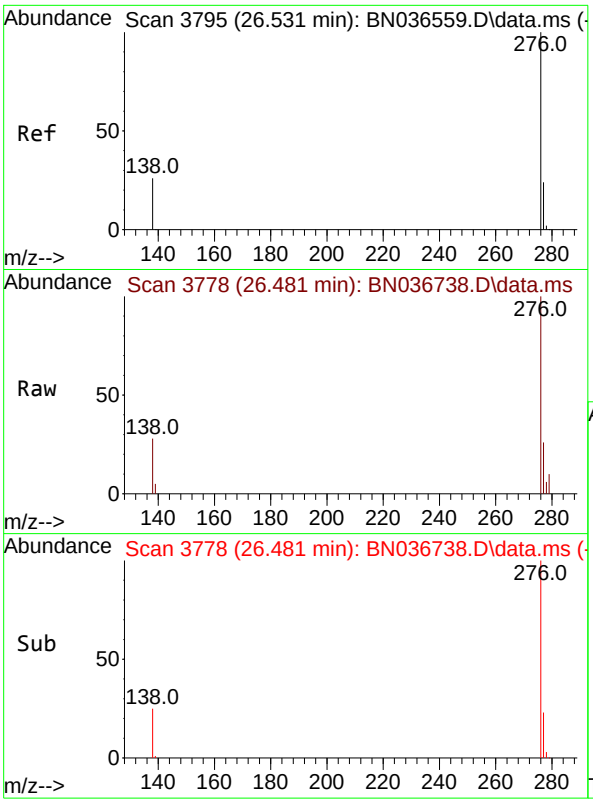


#40
Dibenzo(a,h)anthracene
Concen: 0.362 ng
RT: 25.814 min Scan# 3550
Delta R.T. -0.041 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:278 Resp: 4114

Ion	Ratio	Lower	Upper
278	100		
139	24.0	20.8	31.2
279	33.0	28.8	43.2

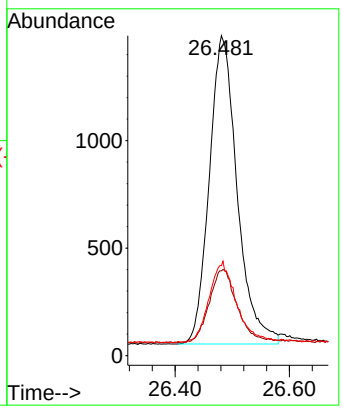




#41
Benzo(g,h,i)perylene
Concen: 0.374 ng
RT: 26.481 min Scan# 3
Delta R.T. -0.050 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:276 Resp: 485

Ion	Ratio	Lower	Upper
276	100		
277	26.5	22.2	33.4
138	28.2	24.1	36.1



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036738.D
Acq On : 27 Mar 2025 15:38
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Mar 27 16:33:11 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 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	69	-0.02
2		1,4-Dioxane	0.444	0.473	-6.5	66	-0.01
3		n-Nitrosodimethylamine	0.898	0.854	4.9	63	-0.01
4	S	2-Fluorophenol	0.932	0.850	8.8	59	-0.02
5	S	Phenol-d6	1.152	1.009	12.4	62	-0.03
6		bis(2-Chloroethyl)ether	1.190	1.007	15.4	59	-0.02
7	I	Naphthalene-d8	1.000	1.000	0.0	75	-0.02
8	S	Nitrobenzene-d5	0.435	0.358	17.7	65	-0.02
9		Naphthalene	1.177	1.064	9.6	66	-0.02
10		Hexachlorobutadiene	0.277	0.251	9.4	64	-0.02
11	SURR	2-Methylnaphthalene-d10	0.595	0.535	10.1	66	-0.03
12		2-Methylnaphthalene	0.749	0.661	11.7	65	-0.03
13	I	Acenaphthene-d10	1.000	1.000	0.0	78	-0.02
14	S	2,4,6-Tribromophenol	0.182	0.176	3.3	73	-0.02
15	S	2-Fluorobiphenyl	2.327	2.012	13.5	65	-0.02
16		Acenaphthylene	1.888	1.644	12.9	66	-0.02
17		Acenaphthene	1.236	1.100	11.0	67	-0.03
18		Fluorene	1.672	1.546	7.5	68	-0.02
19	I	Phenanthrene-d10	1.000	1.000	0.0	83	-0.02
20		4,6-Dinitro-2-methylphenol	0.086	0.074	14.0	80	-0.01
21		4-Bromophenyl-phenylether	0.251	0.230	8.4	70	-0.01
22		Hexachlorobenzene	0.303	0.272	10.2	67	-0.01
23		Atrazine	0.201	0.199	1.0	77	-0.01
24		Pentachlorophenol	0.138	0.133	3.6	81	-0.02
25		Phenanthrene	1.200	1.143	4.7	73	-0.02
26		Anthracene	1.083	1.000	7.7	72	-0.02
27	SURR	Fluoranthene-d10	1.025	1.046	-2.0	78	-0.02
28		Fluoranthene	1.348	1.395	-3.5	80	-0.02
29	I	Chrysene-d12	1.000	1.000	0.0	107	-0.02
30		Pyrene	1.956	1.666	14.8	83	-0.02
31	S	Terphenyl-d14	0.958	0.790	17.5	82	-0.02
32		Benzo(a)anthracene	1.391	1.268	8.8	94	-0.03
33		Chrysene	1.520	1.405	7.6	93	-0.02
34		Bis(2-ethylhexyl)phthalate	0.990	0.829	16.3	85	-0.02
35	I	Perylene-d12	1.000	1.000	0.0	114	-0.03
36		Indeno(1,2,3-cd)pyrene	1.444	1.322	8.4	98	-0.05
37		Benzo(b)fluoranthene	1.456	1.362	6.5	101	-0.02
38		Benzo(k)fluoranthene	1.527	1.417	7.2	100	-0.02
39	C	Benzo(a)pyrene	1.226	1.197	2.4	105	-0.03
40		Dibenzo(a,h)anthracene	1.124	1.017	9.5	100	-0.04
41		Benzo(g,h,i)perylene	1.286	1.201	6.6	99	-0.05

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036738.D
Acq On : 27 Mar 2025 15:38
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Mar 27 16:33:11 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 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	69	-0.02
2		1,4-Dioxane	0.400	0.427	-6.7	66	-0.01
3		n-Nitrosodimethylamine	0.400	0.381	4.8	63	-0.01
4	S	2-Fluorophenol	0.400	0.365	8.8	59	-0.02
5	S	Phenol-d6	0.400	0.350	12.5	62	-0.03
6		bis(2-Chloroethyl)ether	0.400	0.338	15.5	59	-0.02
7	I	Naphthalene-d8	0.400	0.400	0.0	75	-0.02
8	S	Nitrobenzene-d5	0.400	0.329	17.8	65	-0.02
9		Naphthalene	0.400	0.362	9.5	66	-0.02
10		Hexachlorobutadiene	0.400	0.363	9.3	64	-0.02
11	SURR	2-Methylnaphthalene-d10	0.400	0.360	10.0	66	-0.03
12		2-Methylnaphthalene	0.400	0.353	11.8	65	-0.03
13	I	Acenaphthene-d10	0.400	0.400	0.0	78	-0.02
14	S	2,4,6-Tribromophenol	0.400	0.389	2.8	73	-0.02
15	S	2-Fluorobiphenyl	0.400	0.346	13.5	65	-0.02
16		Acenaphthylene	0.400	0.348	13.0	66	-0.02
17		Acenaphthene	0.400	0.356	11.0	67	-0.03
18		Fluorene	0.400	0.370	7.5	68	-0.02
19	I	Phenanthrene-d10	0.400	0.400	0.0	83	-0.02
20		4,6-Dinitro-2-methylphenol	0.400	0.436	-9.0	80	-0.01
21		4-Bromophenyl-phenylether	0.400	0.367	8.3	70	-0.01
22		Hexachlorobenzene	0.400	0.360	10.0	67	-0.01
23		Atrazine	0.400	0.395	1.3	77	-0.01
24		Pentachlorophenol	0.400	0.385	3.8	81	-0.02
25		Phenanthrene	0.400	0.381	4.8	73	-0.02
26		Anthracene	0.400	0.369	7.8	72	-0.02
27	SURR	Fluoranthene-d10	0.400	0.408	-2.0	78	-0.02
28		Fluoranthene	0.400	0.414	-3.5	80	-0.02
29	I	Chrysene-d12	0.400	0.400	0.0	107	-0.02
30		Pyrene	0.400	0.341	14.8	83	-0.02
31	S	Terphenyl-d14	0.400	0.330	17.5	82	-0.02
32		Benzo(a)anthracene	0.400	0.365	8.8	94	-0.03
33		Chrysene	0.400	0.370	7.5	93	-0.02
34		Bis(2-ethylhexyl)phthalate	0.400	0.335	16.3	85	-0.02
35	I	Perylene-d12	0.400	0.400	0.0	114	-0.03
36		Indeno(1,2,3-cd)pyrene	0.400	0.366	8.5	98	-0.05
37		Benzo(b)fluoranthene	0.400	0.374	6.5	101	-0.02
38		Benzo(k)fluoranthene	0.400	0.371	7.3	100	-0.02
39	C	Benzo(a)pyrene	0.400	0.391	2.3	105	-0.03
40		Dibenzo(a,h)anthracene	0.400	0.362	9.5	100	-0.04
41		Benzo(g,h,i)perylene	0.400	0.374	6.5	99	-0.05

(#) = 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: TETR06

Lab Code: CHEM Case No.: Q1621 SAS No.: Q1621 SDG No.: Q1621

Instrument ID: BNA_N Calibration Date/Time: 03/28/2025 01:52

Lab File ID: BN036755.D Init. Calib. Date(s): 03/10/2025 03/10/2025

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 11:42 15:19

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.595	0.516		-13.3	50.0
Fluoranthene-d10	1.025	1.003		-2.1	50.0
2-Fluorophenol	0.932	0.839		-10.0	50.0
Phenol-d6	1.152	1.005		-12.8	50.0
Nitrobenzene-d5	0.435	0.357		-17.9	50.0
2-Fluorobiphenyl	2.327	1.853		-20.4	50.0
2,4,6-Tribromophenol	0.182	0.170		-6.6	50.0
Terphenyl-d14	0.958	0.759		-20.8	50.0
1,4-Dioxane	0.444	0.464		4.5	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036755.D
Acq On : 28 Mar 2025 01:52
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Mar 28 05:36:33 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.703	152	1902	0.400	ng		-0.02
7) Naphthalene-d8	10.487	136	4724	0.400	ng		#-0.02
13) Acenaphthene-d10	14.334	164	3073	0.400	ng		-0.03
19) Phenanthrene-d10	17.086	188	6417	0.400	ng		-0.02
29) Chrysene-d12	21.277	240	5861	0.400	ng		#-0.02
35) Perylene-d12	23.519	264	5647	0.400	ng		#-0.03
System Monitoring Compounds							
4) 2-Fluorophenol	5.291	112	1596	0.360	ng		-0.02
5) Phenol-d6	6.872	99	1912	0.349	ng		-0.03
8) Nitrobenzene-d5	8.854	82	1688	0.328	ng		-0.02
11) 2-Methylnaphthalene-d10	12.080	152	2439	0.347	ng		-0.03
14) 2,4,6-Tribromophenol	15.833	330	523	0.375	ng		-0.02
15) 2-Fluorobiphenyl	12.963	172	5695	0.319	ng		-0.03
27) Fluoranthene-d10	19.122	212	6435	0.391	ng		-0.02
31) Terphenyl-d14	19.722	244	4447	0.317	ng		-0.02
Target Compounds							Qvalue
2) 1,4-Dioxane	3.225	88	882	0.418	ng		97
3) n-Nitrosodimethylamine	3.536	42	1688	0.395	ng		93
6) bis(2-Chloroethyl)ether	7.125	93	1966	0.347	ng		99
9) Naphthalene	10.530	128	4933	0.355	ng		99
10) Hexachlorobutadiene	10.829	225	1194	0.365	ng	#	100
12) 2-Methylnaphthalene	12.157	142	3191	0.361	ng		98
16) Acenaphthylene	14.056	152	5054	0.349	ng		100
17) Acenaphthene	14.398	154	3383	0.356	ng		99
18) Fluorene	15.393	166	4678	0.364	ng		100
20) 4,6-Dinitro-2-methylph...	15.478	198	489	0.444	ng		88
21) 4-Bromophenyl-phenylether	16.280	248	1456	0.362	ng		93
22) Hexachlorobenzene	16.404	284	1743	0.359	ng		98
23) Atrazine	16.553	200	1231	0.382	ng		96
24) Pentachlorophenol	16.739	266	837	0.378	ng		96
25) Phenanthrene	17.124	178	7451	0.387	ng		100
26) Anthracene	17.223	178	6503	0.374	ng		99
28) Fluoranthene	19.150	202	8702	0.402	ng		99
30) Pyrene	19.513	202	9138	0.319	ng		100
32) Benzo(a)anthracene	21.259	228	7209	0.354	ng		99
33) Chrysene	21.313	228	8619	0.387	ng		99
34) Bis(2-ethylhexyl)phtha...	21.196	149	5036	0.347	ng	#	99
36) Indeno(1,2,3-cd)pyrene	25.785	276	7554	0.371	ng		98
37) Benzo(b)fluoranthene	22.847	252	7851	0.382	ng		97
38) Benzo(k)fluoranthene	22.888	252	8148m	0.378	ng		
39) Benzo(a)pyrene	23.420	252	6760	0.391	ng		95
40) Dibenzo(a,h)anthracene	25.806	278	5864	0.370	ng		90
41) Benzo(g,h,i)perylene	26.475	276	6890m	0.380	ng		

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

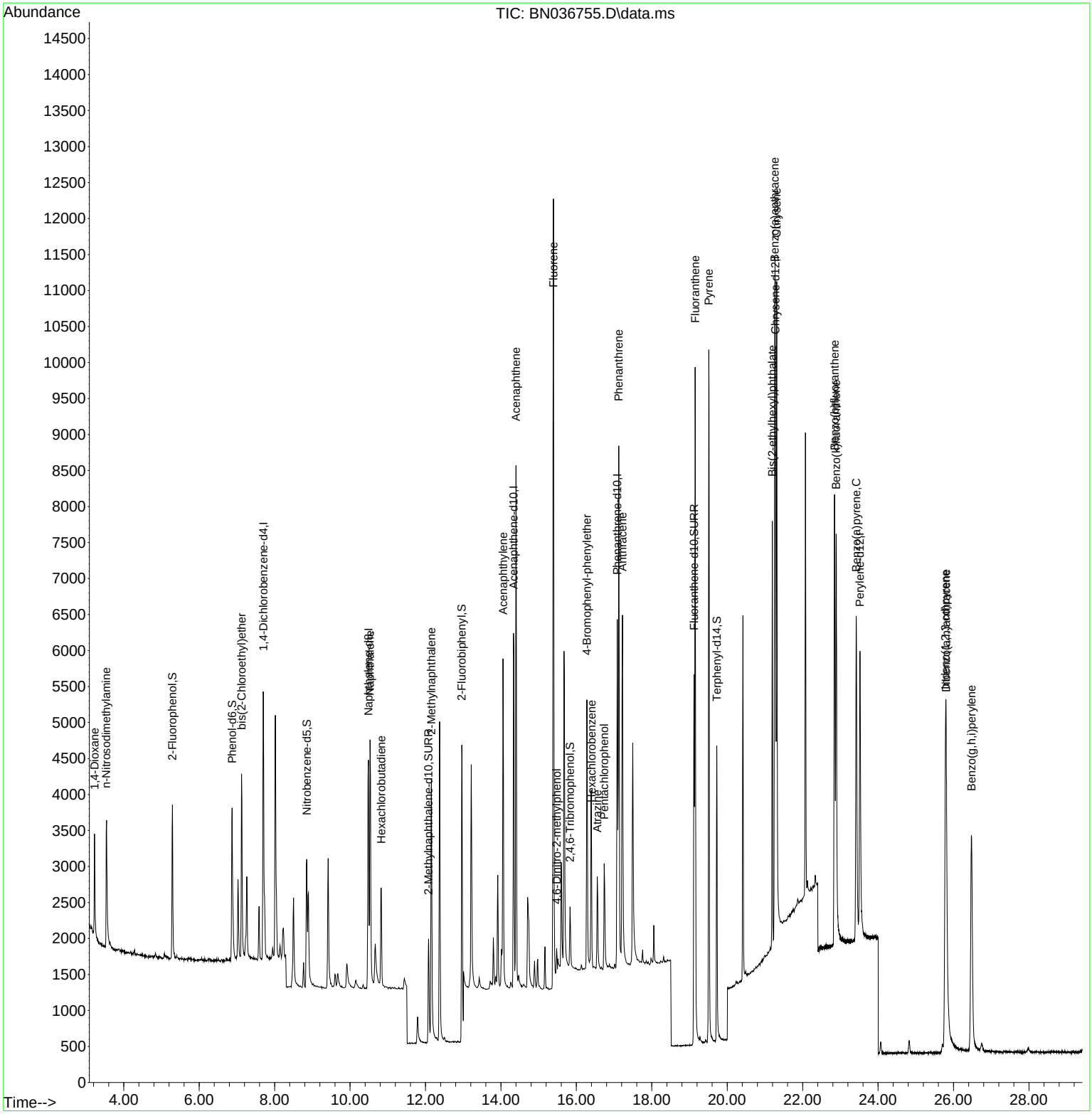
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036755.D
Acq On : 28 Mar 2025 01:52
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 19 Sample Multiplier: 1

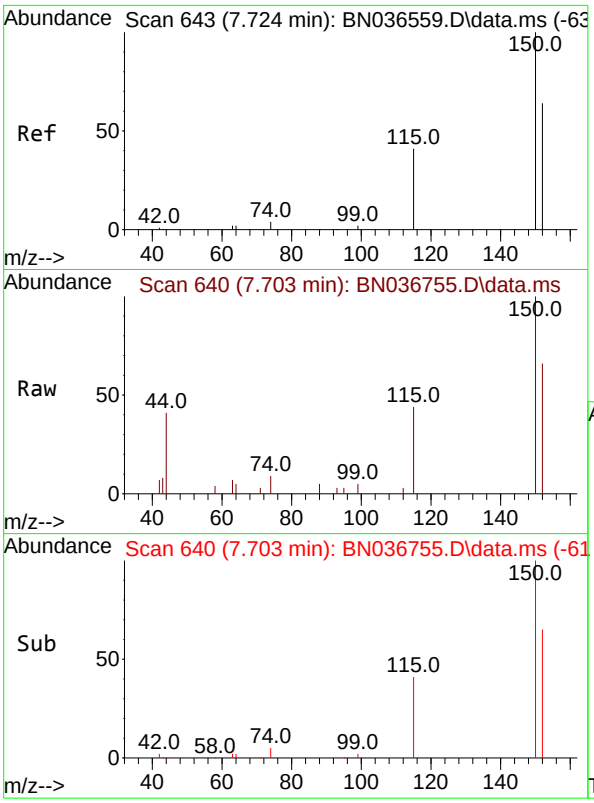
Quant Time: Mar 28 05:36:33 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

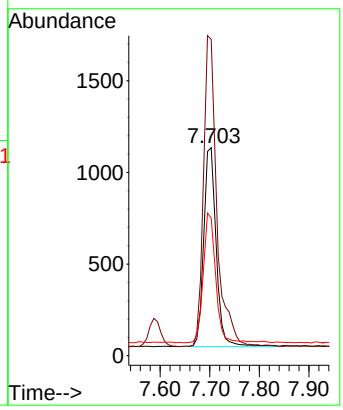




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.703 min Scan# 64
Delta R.T. -0.021 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:152 Resp: 190

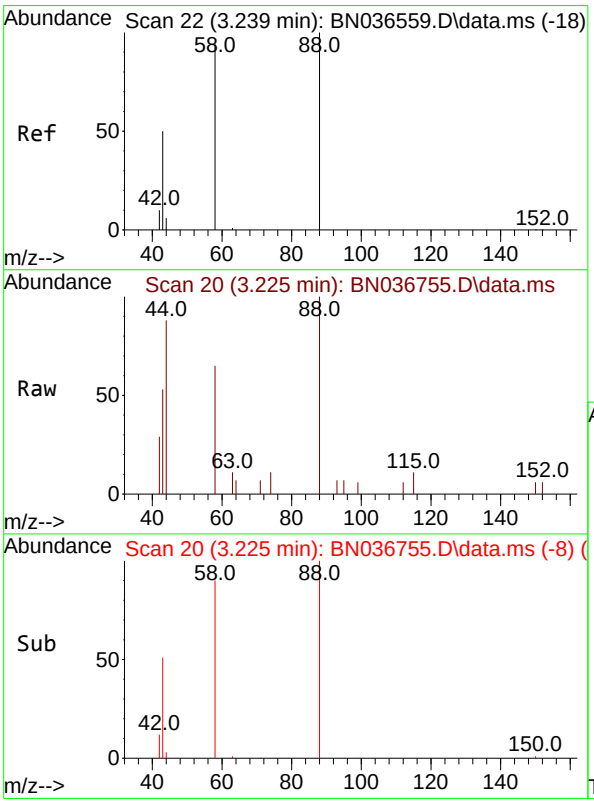
Ion	Ratio	Lower	Upper
152	100		
150	152.1	123.7	185.5
115	66.2	54.3	81.5



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations APPROVED

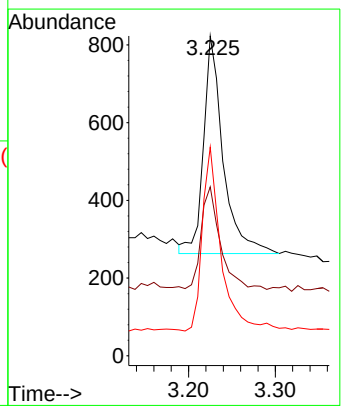
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

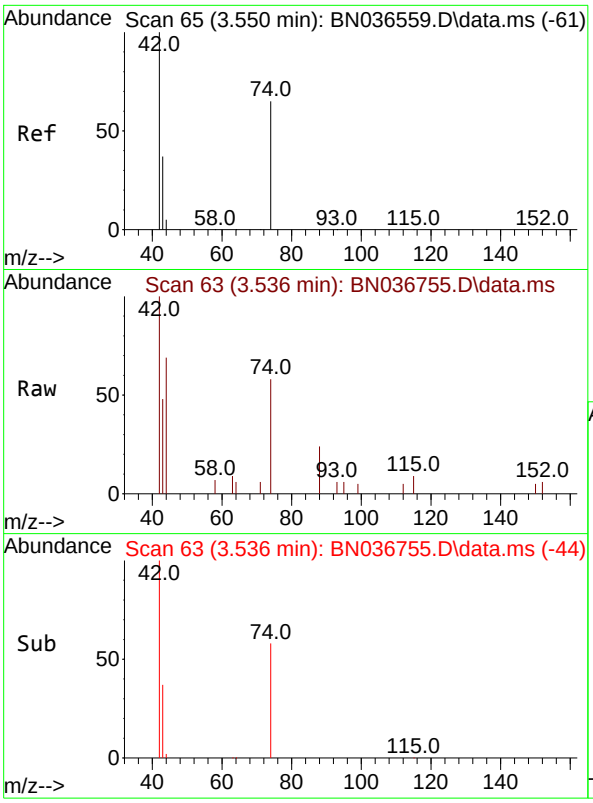


#2
1,4-Dioxane
Concen: 0.418 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion: 88 Resp: 882

Ion	Ratio	Lower	Upper
88	100		
43	45.9	37.8	56.8
58	81.1	67.4	101.2

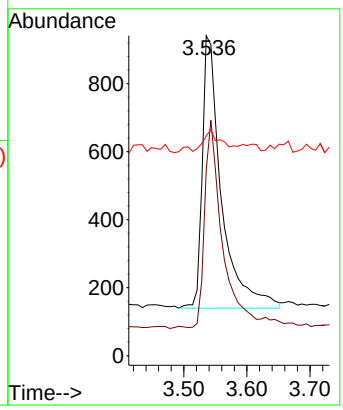




#3
n-Nitrosodimethylamine
Concen: 0.395 ng
RT: 3.536 min Scan# 6
Delta R.T. -0.014 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion: 42 Resp: 168

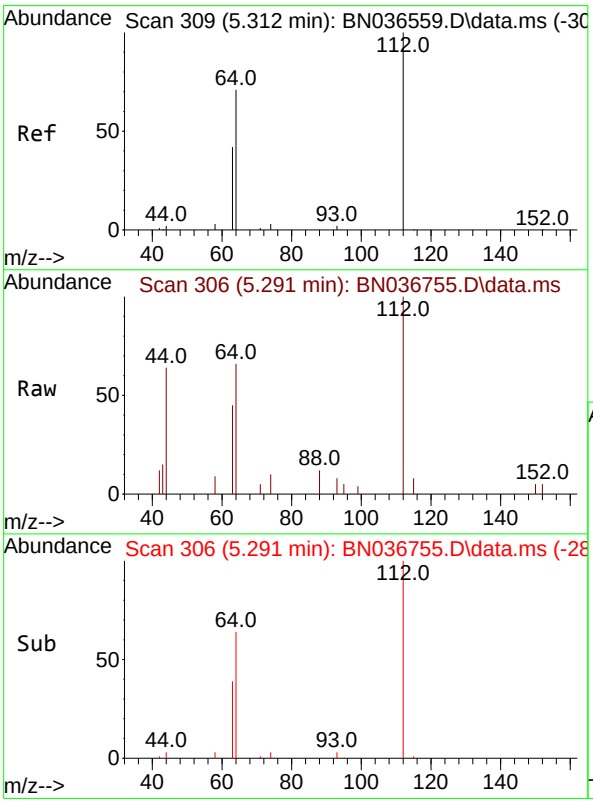
Ion	Ratio	Lower	Upper
42	100		
74	68.9	60.6	90.8
44	7.1	6.3	9.5



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations APPROVED

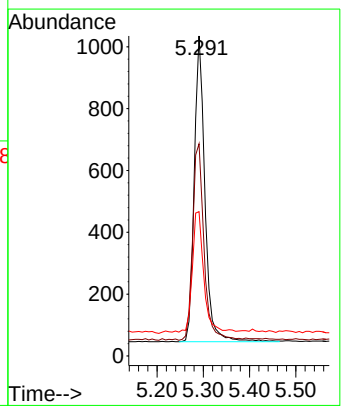
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

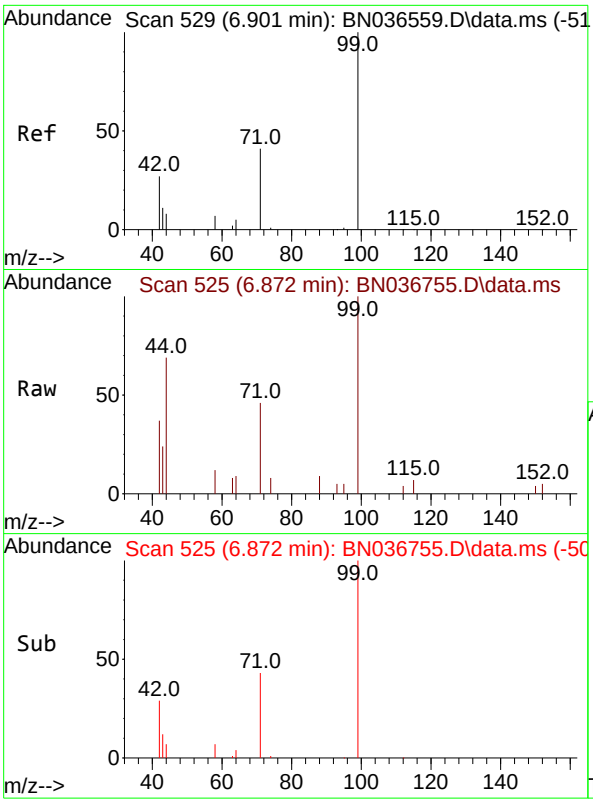


#4
2-Fluorophenol
Concen: 0.360 ng
RT: 5.291 min Scan# 306
Delta R.T. -0.022 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:112 Resp: 1596

Ion	Ratio	Lower	Upper
112	100		
64	68.2	53.1	79.7
63	41.4	31.8	47.8

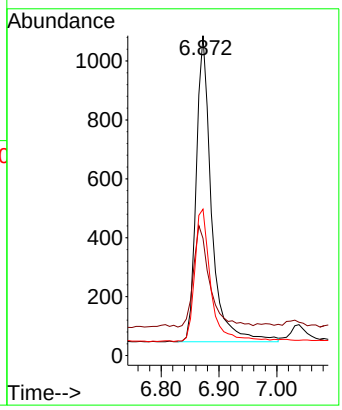




#5
Phenol-d6
Concen: 0.349 ng
RT: 6.872 min Scan# 5
Delta R.T. -0.029 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion: 99 Resp: 191

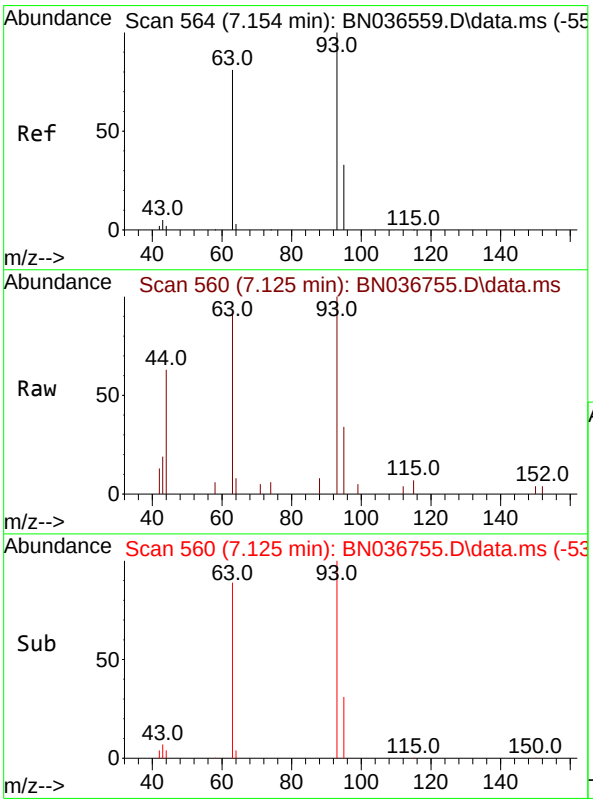
Ion	Ratio	Lower	Upper
99	100		
42	35.4	26.5	39.7
71	45.3	34.1	51.1



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

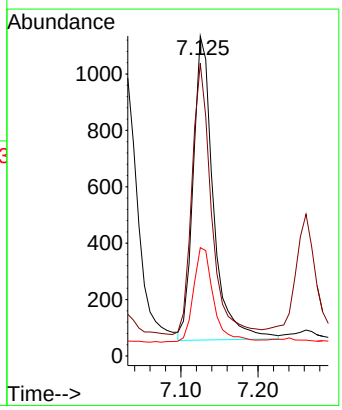
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

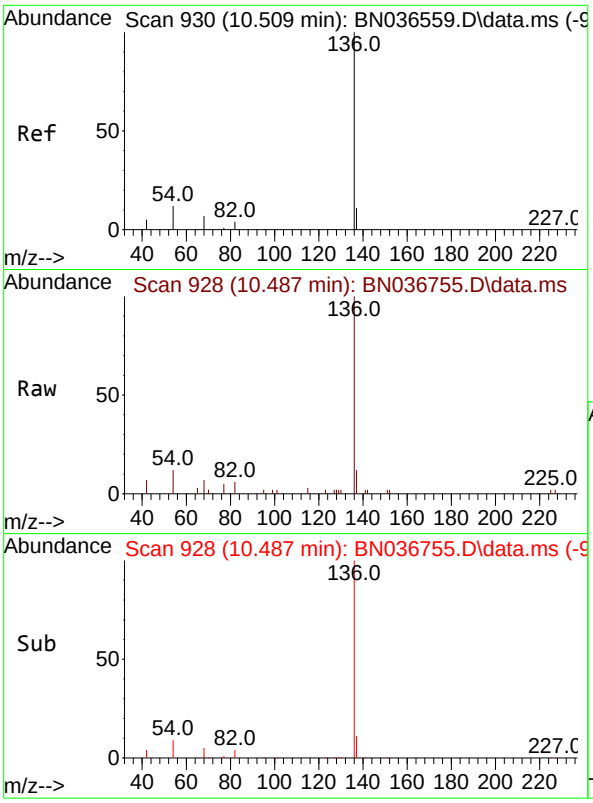


#6
bis(2-Chloroethyl)ether
Concen: 0.347 ng
RT: 7.125 min Scan# 560
Delta R.T. -0.029 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion: 93 Resp: 1966

Ion	Ratio	Lower	Upper
93	100		
63	85.6	67.7	101.5
95	31.0	25.6	38.4

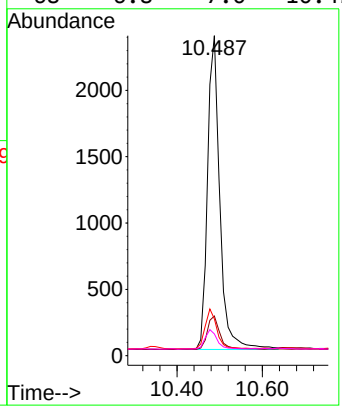




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.487 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:136 Resp: 472

Ion	Ratio	Lower	Upper
136	100		
137	12.4	10.3	15.5
54	11.5	11.5	17.3
68	6.8	7.0	10.4#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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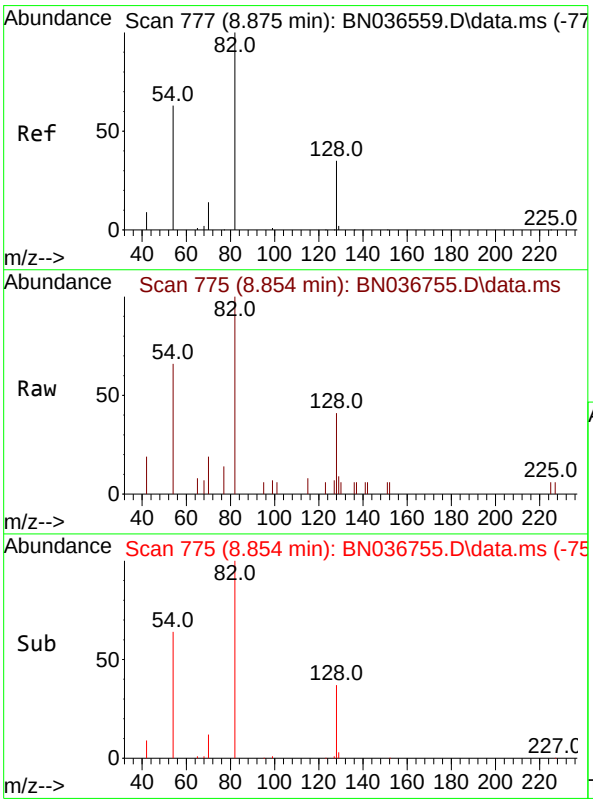
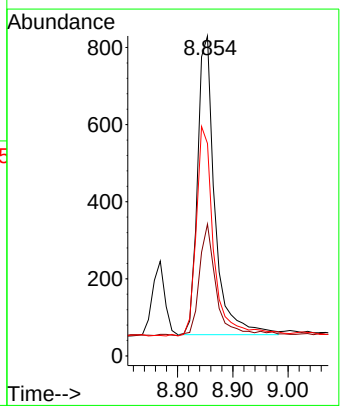
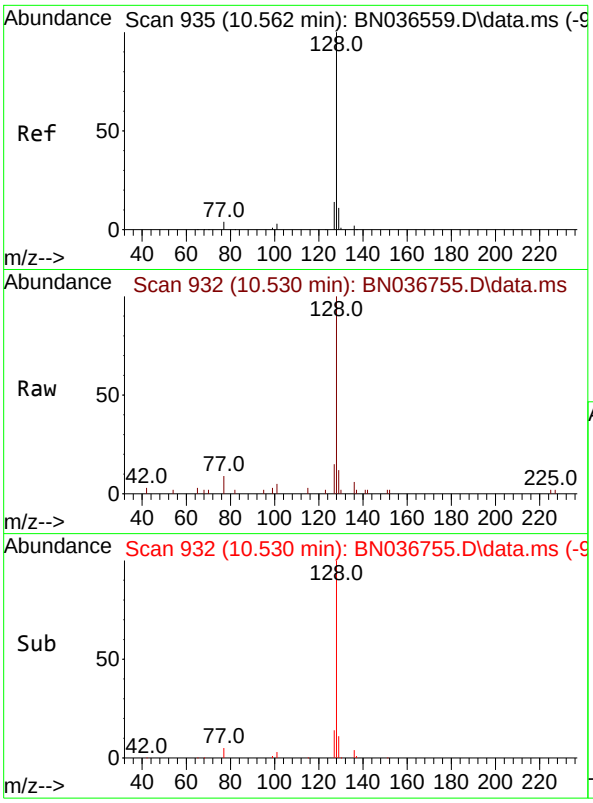


#8
Nitrobenzene-d5
Concen: 0.328 ng
RT: 8.854 min Scan# 775
Delta R.T. -0.021 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion: 82 Resp: 1688

Ion	Ratio	Lower	Upper
82	100		
128	41.2	30.6	45.8
54	66.4	52.2	78.4

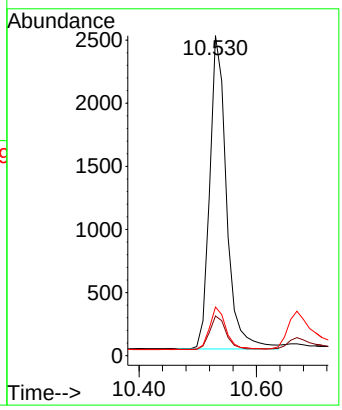




#9
Naphthalene
Concen: 0.355 ng
RT: 10.530 min Scan# 9
Delta R.T. -0.032 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:128 Resp: 493

Ion	Ratio	Lower	Upper
128	100		
129	12.4	9.8	14.6
127	15.2	11.8	17.8



Instrument :
BNA_N
ClientSampleId :
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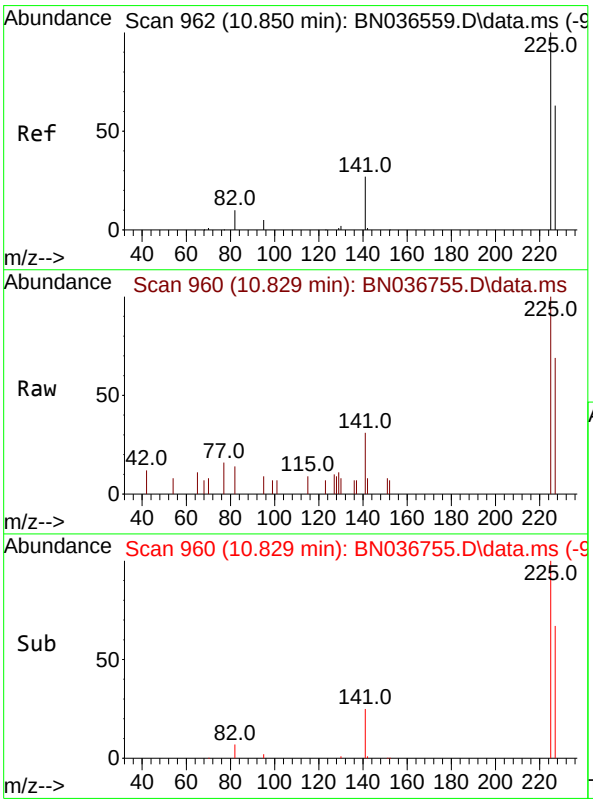
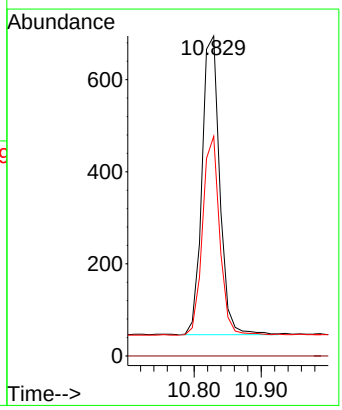
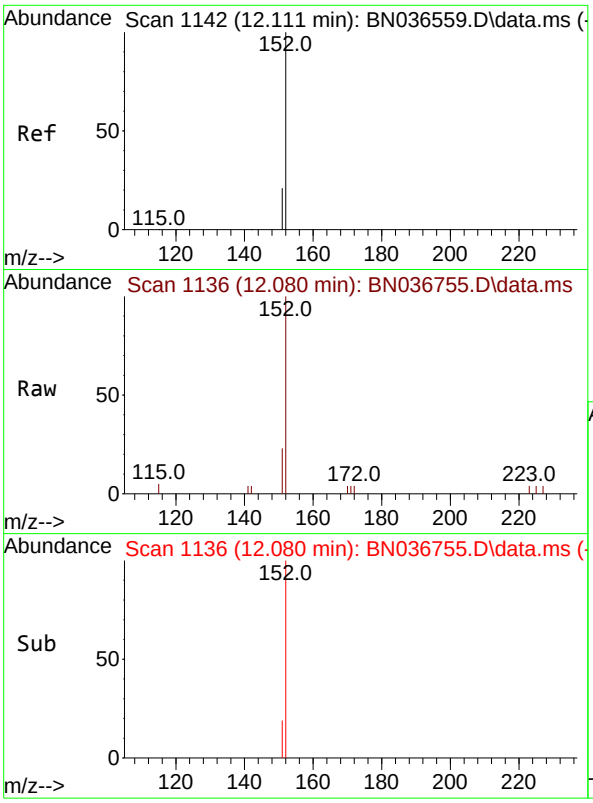


#10
Hexachlorobutadiene
Concen: 0.365 ng
RT: 10.829 min Scan# 960
Delta R.T. -0.021 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:225 Resp: 1194

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.6	51.8	77.8





#11
2-Methylnaphthalene-d10
Concen: 0.347 ng
RT: 12.080 min Scan# 11
Delta R.T. -0.030 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:152 Resp: 243

Ion	Ratio	Lower	Upper
152	100		
151	22.1	17.0	25.6

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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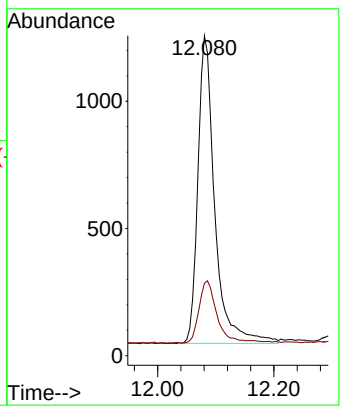
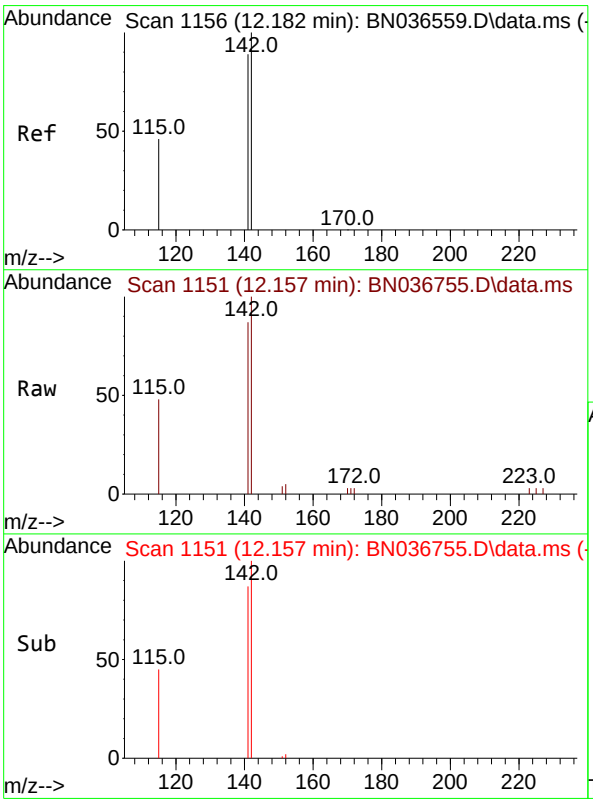
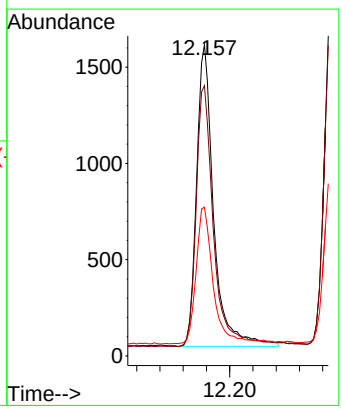


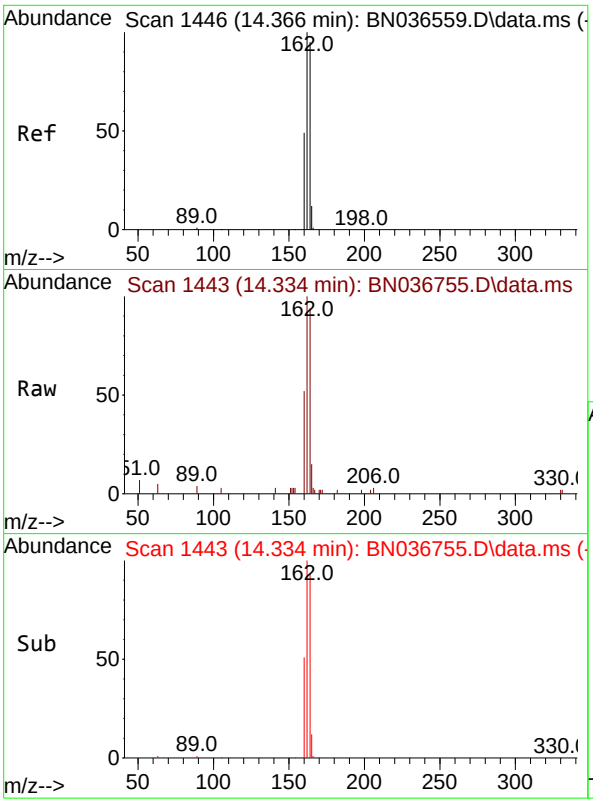


#12
2-Methylnaphthalene
Concen: 0.361 ng
RT: 12.157 min Scan# 1151
Delta R.T. -0.025 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:142 Resp: 3191

Ion	Ratio	Lower	Upper
142	100		
141	86.8	71.7	107.5
115	47.8	38.3	57.5

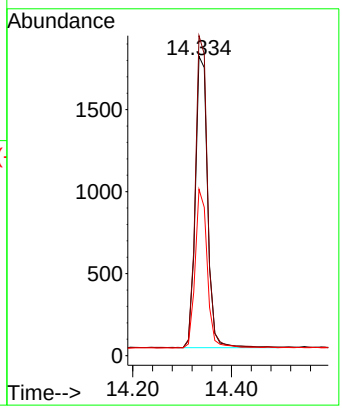




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:164 Resp: 307

Ion	Ratio	Lower	Upper
164	100		
162	106.9	84.2	126.2
160	55.6	42.2	63.2



Instrument :
BNA_N
ClientSampleId :
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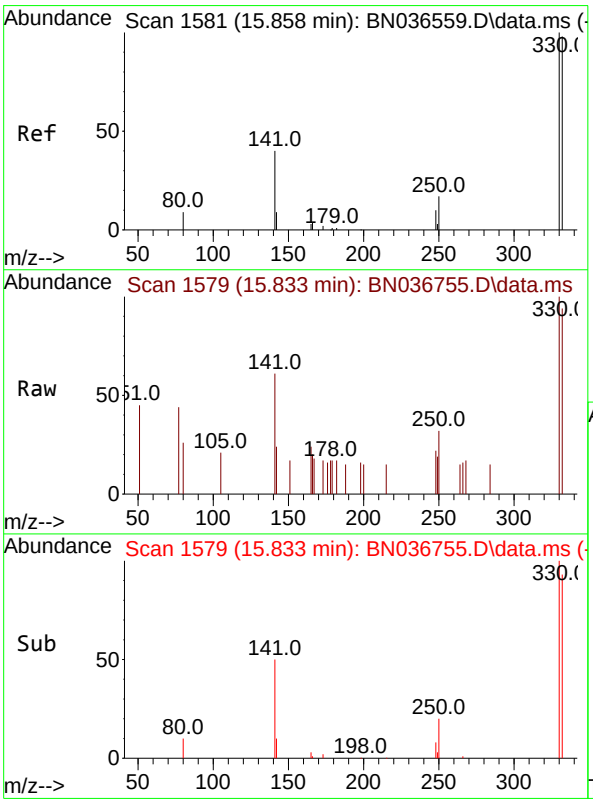
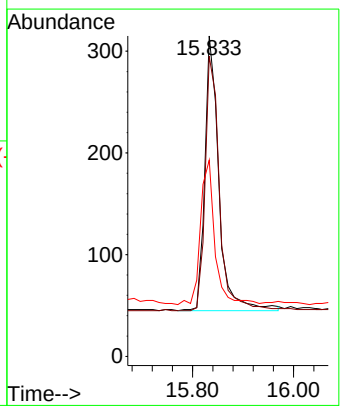
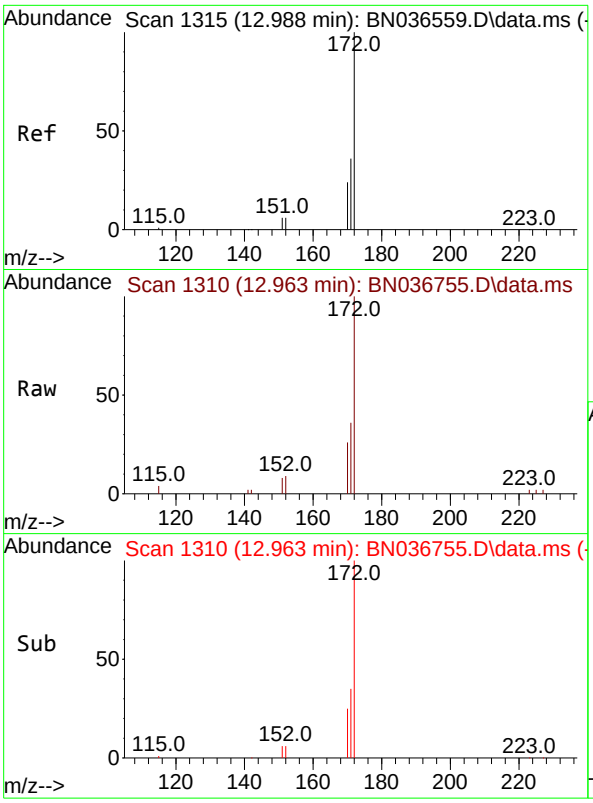


#14
2,4,6-Tribromophenol
Concen: 0.375 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.025 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:330 Resp: 523

Ion	Ratio	Lower	Upper
330	100		
332	93.7	75.2	112.8
141	53.5	43.4	65.2

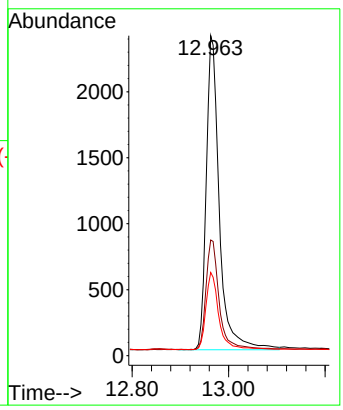




#15
2-Fluorobiphenyl
Concen: 0.319 ng
RT: 12.963 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:172 Resp: 569

Ion	Ratio	Lower	Upper
172	100		
171	36.2	29.5	44.3
170	26.0	20.2	30.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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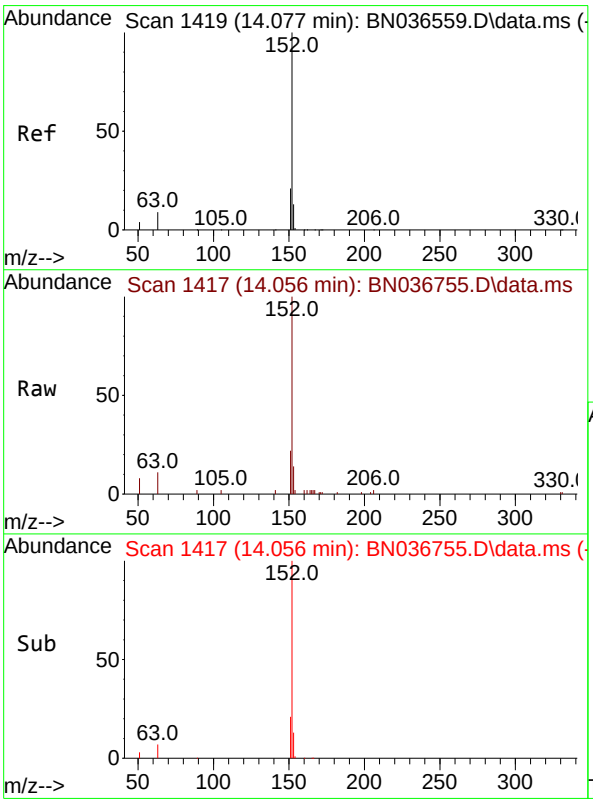
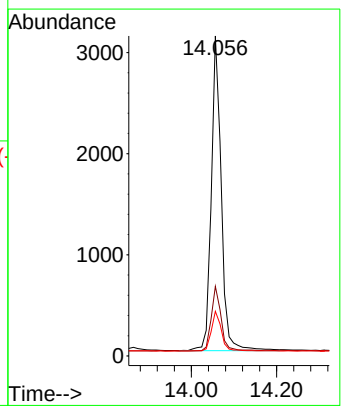
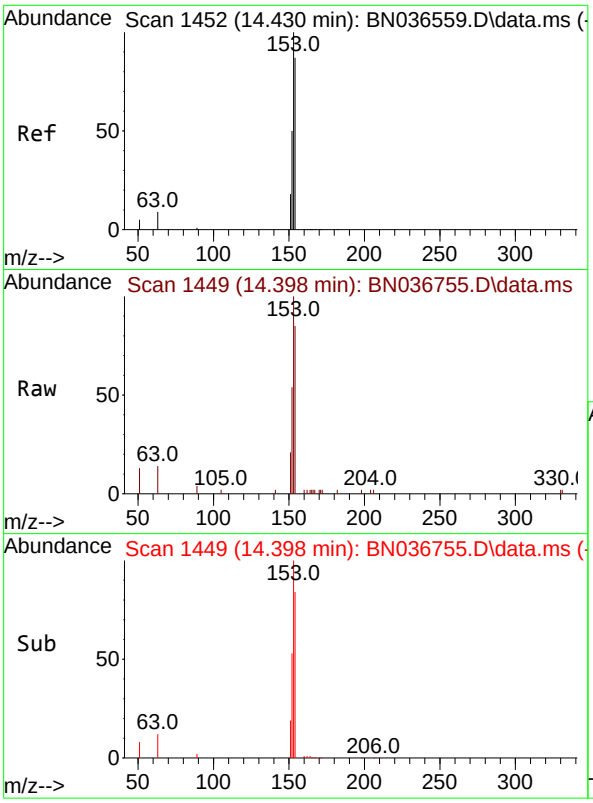


#16
Acenaphthylene
Concen: 0.349 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.021 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:152 Resp: 5054

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.2	24.4
153	13.1	10.6	15.8

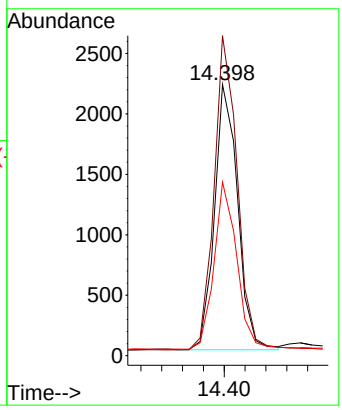




#17
Acenaphthene
Concen: 0.356 ng
RT: 14.398 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:154 Resp: 338

Ion	Ratio	Lower	Upper
154	100		
153	119.0	94.1	141.1
152	62.7	49.8	74.6



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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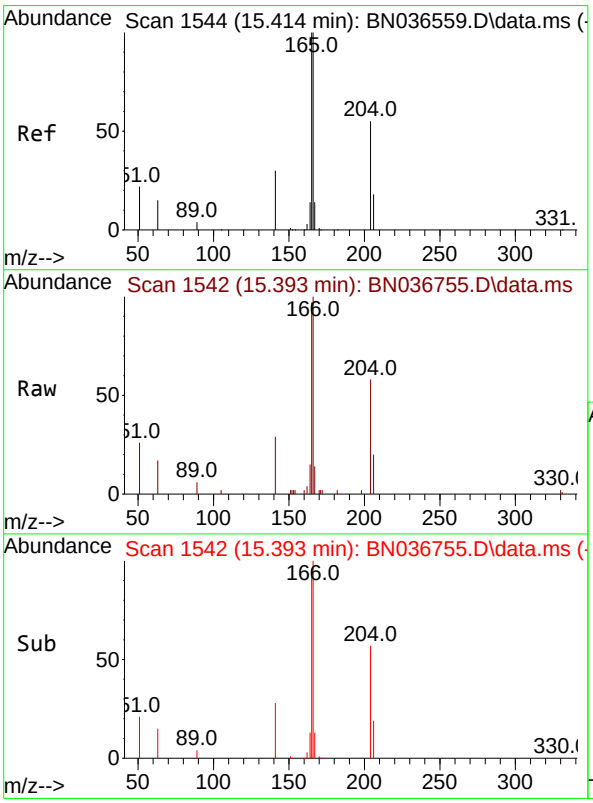
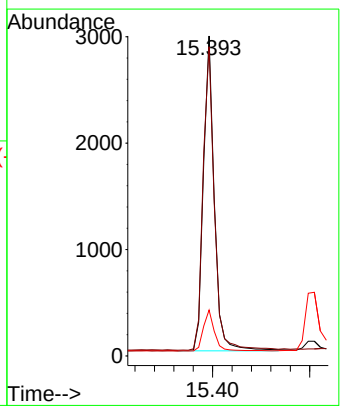
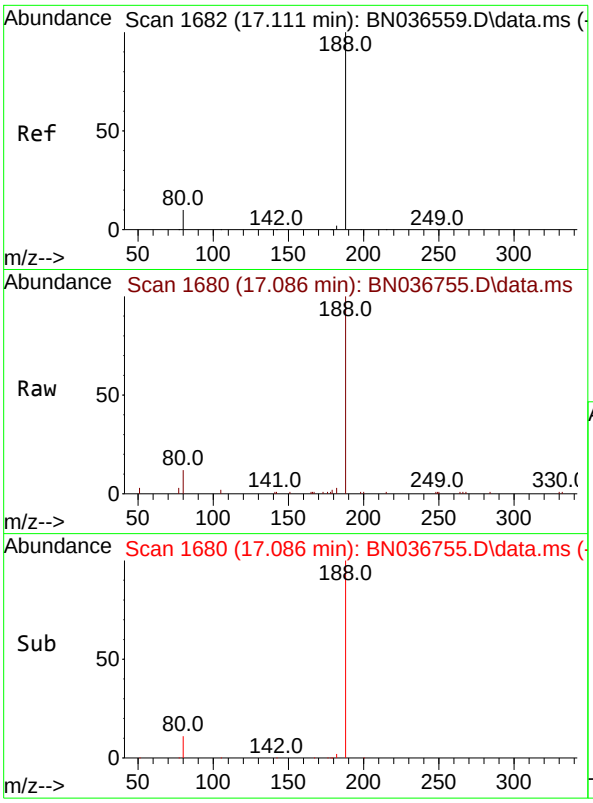


#18
Fluorene
Concen: 0.364 ng
RT: 15.393 min Scan# 1542
Delta R.T. -0.021 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:166 Resp: 4678

Ion	Ratio	Lower	Upper
166	100		
165	99.5	79.8	119.8
167	13.0	10.6	15.8

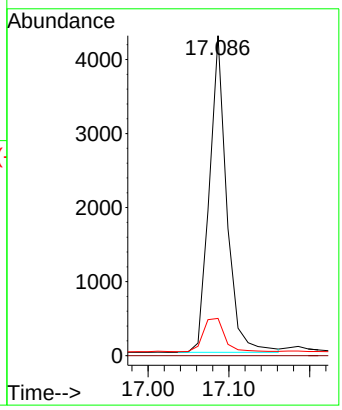




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:188 Resp: 641

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.6	8.8	13.2



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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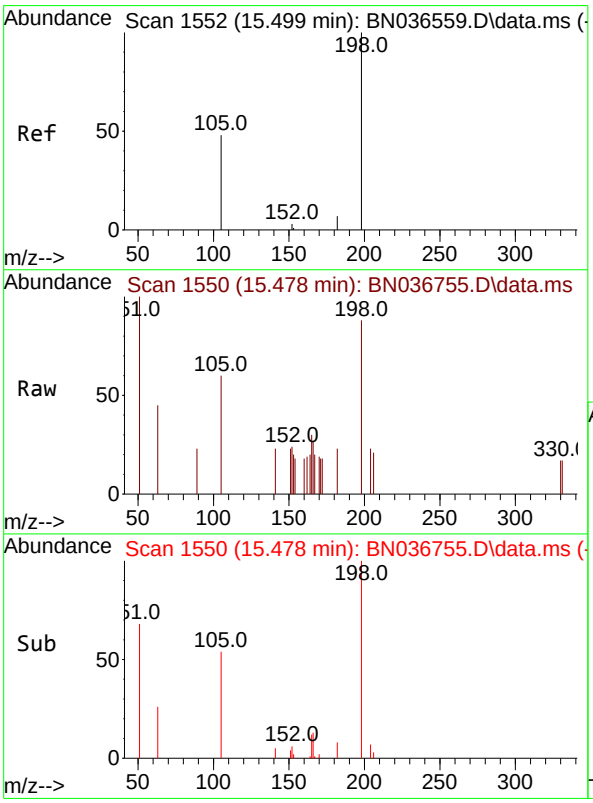
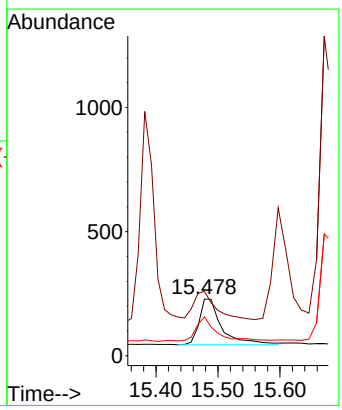
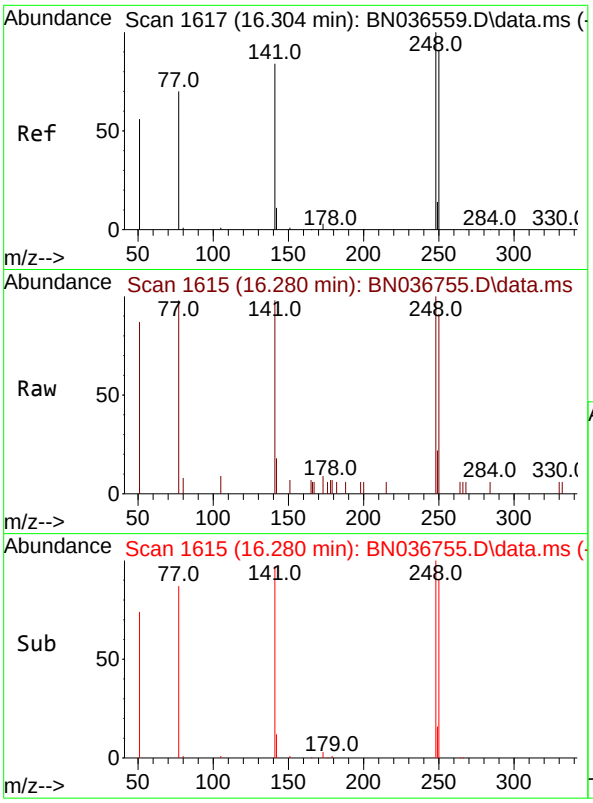


#20
4,6-Dinitro-2-methylphenol
Concen: 0.444 ng
RT: 15.478 min Scan# 1550
Delta R.T. -0.021 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:198 Resp: 489

Ion	Ratio	Lower	Upper
198	100		
51	113.5	107.9	161.9
105	68.6	56.2	84.2

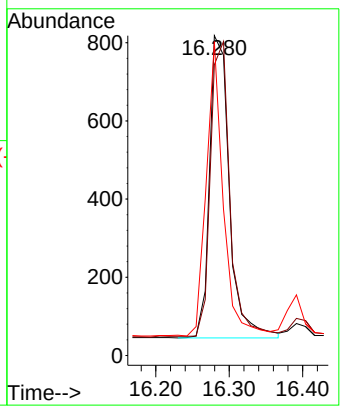




#21
4-Bromophenyl-phenylether
Concen: 0.362 ng
RT: 16.280 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:248 Resp: 145(

Ion	Ratio	Lower	Upper
248	100		
250	91.0	73.0	109.6
141	98.2	68.6	103.0



Instrument :
BNA_N
ClientSampleId :
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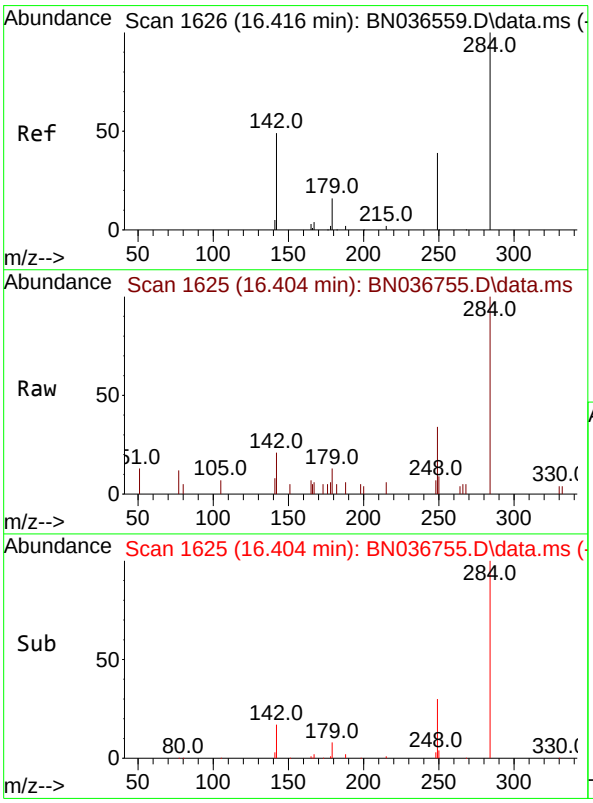
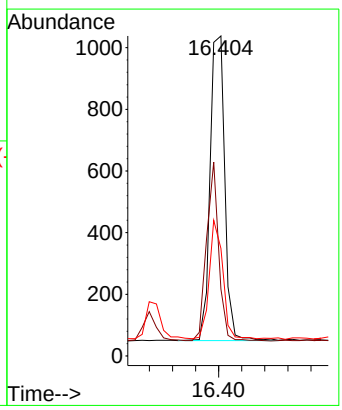
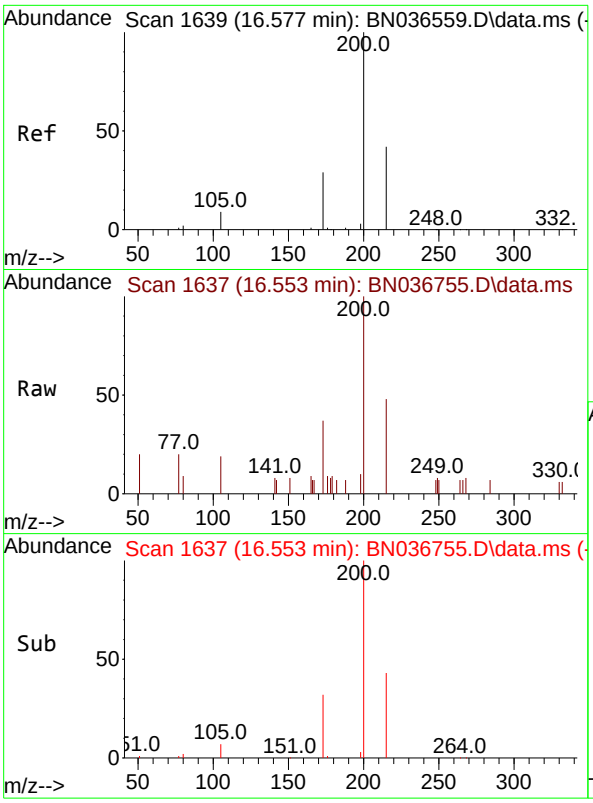


#22
Hexachlorobenzene
Concen: 0.359 ng
RT: 16.404 min Scan# 1625
Delta R.T. -0.012 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:284 Resp: 1743

Ion	Ratio	Lower	Upper
284	100		
142	48.7	37.0	55.4
249	35.6	28.1	42.1





#23
Atrazine
Concen: 0.382 ng
RT: 16.553 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:200 Resp: 123

Ion	Ratio	Lower	Upper
200	100		
173	36.9	27.3	40.9
215	47.8	36.8	55.2

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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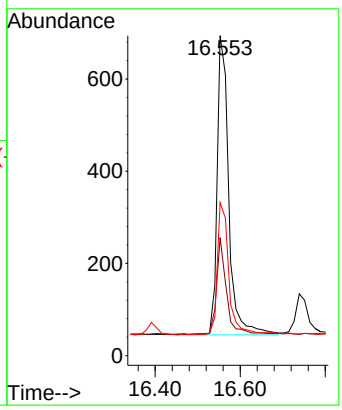
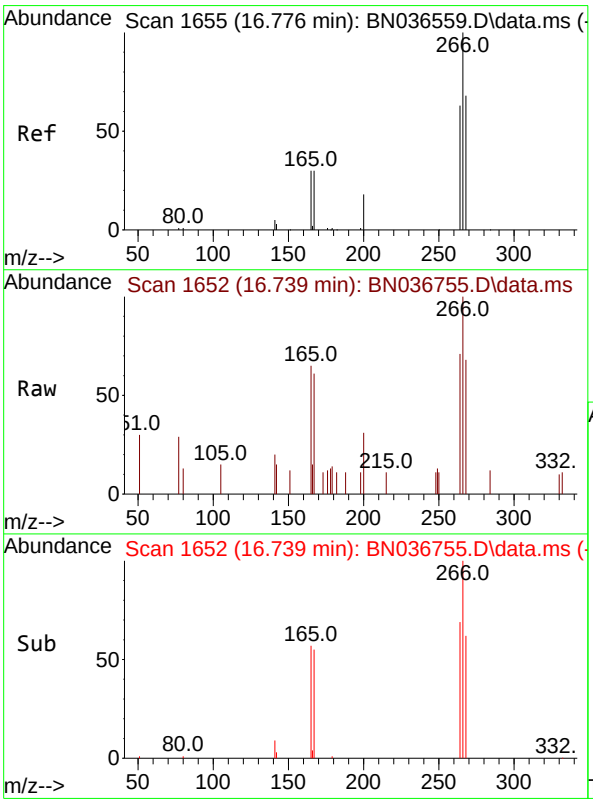
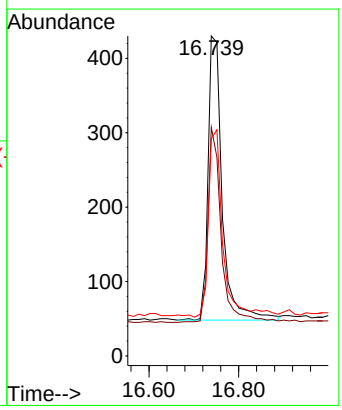


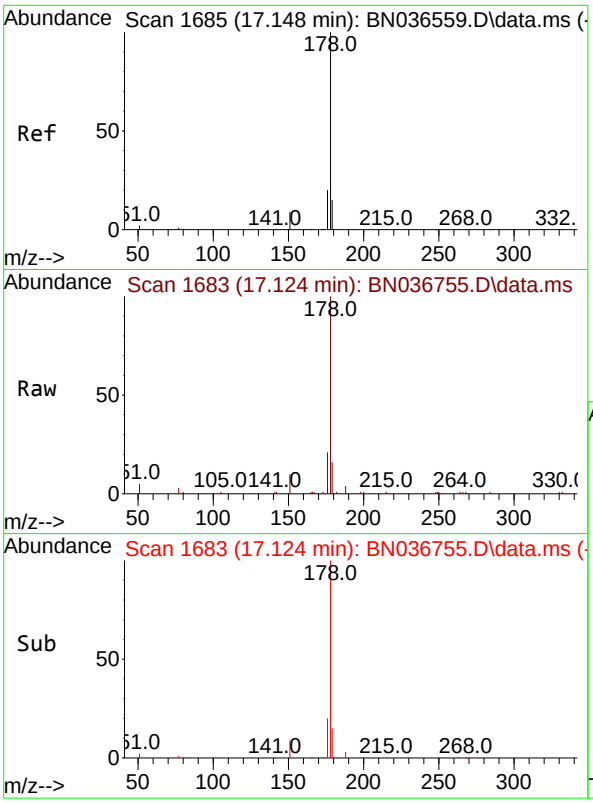


#24
Pentachlorophenol
Concen: 0.378 ng
RT: 16.739 min Scan# 1652
Delta R.T. -0.037 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:266 Resp: 837

Ion	Ratio	Lower	Upper
266	100		
264	63.9	49.6	74.4
268	67.6	50.9	76.3

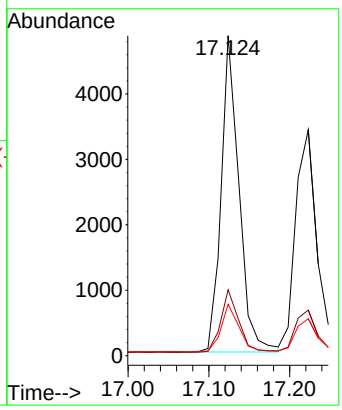




#25
Phenanthrene
Concen: 0.387 ng
RT: 17.124 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:178 Resp: 745

Ion	Ratio	Lower	Upper
178	100		
176	19.9	15.9	23.9
179	15.4	12.2	18.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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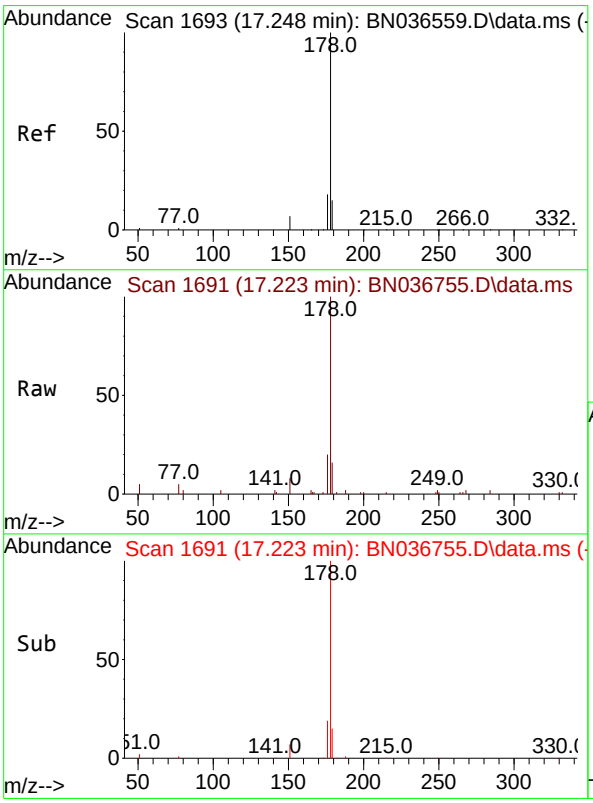
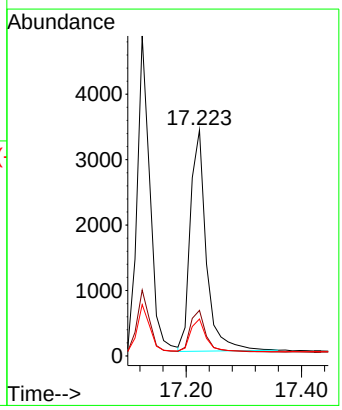
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

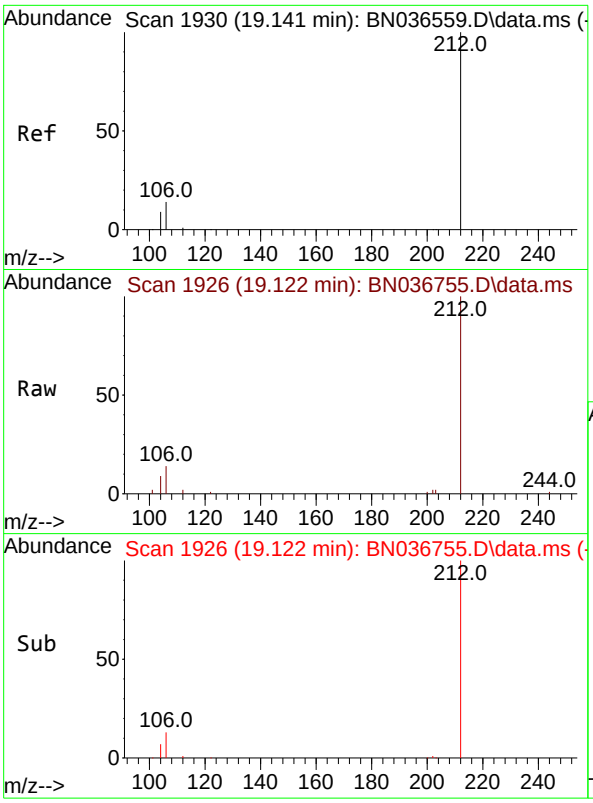


#26
Anthracene
Concen: 0.374 ng
RT: 17.223 min Scan# 1691
Delta R.T. -0.025 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:178 Resp: 6503

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.4	23.2
179	15.2	12.6	18.8

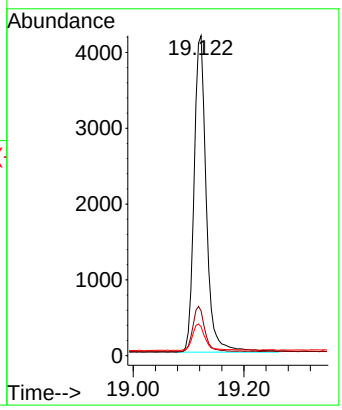




#27
Fluoranthene-d10
Concen: 0.391 ng
RT: 19.122 min Scan# 1
Delta R.T. -0.018 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:212 Resp: 643

Ion	Ratio	Lower	Upper
212	100		
106	14.1	11.8	17.6
104	8.9	7.3	10.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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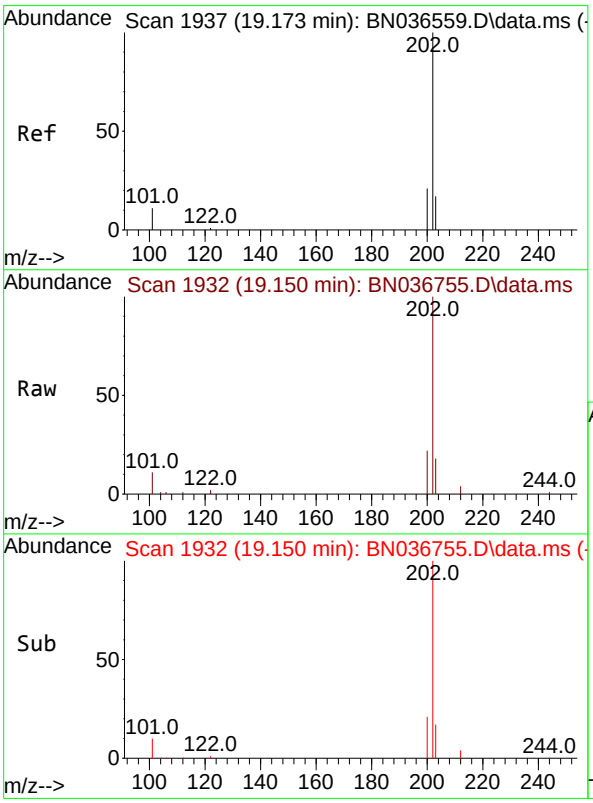
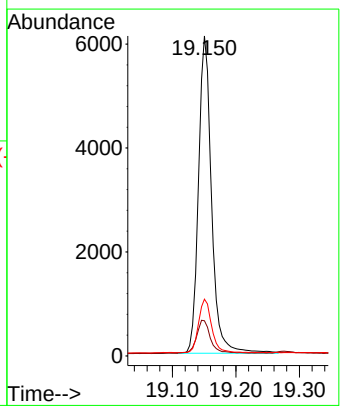
Supervised By :Jagrut Upadhyay 04/01/2025

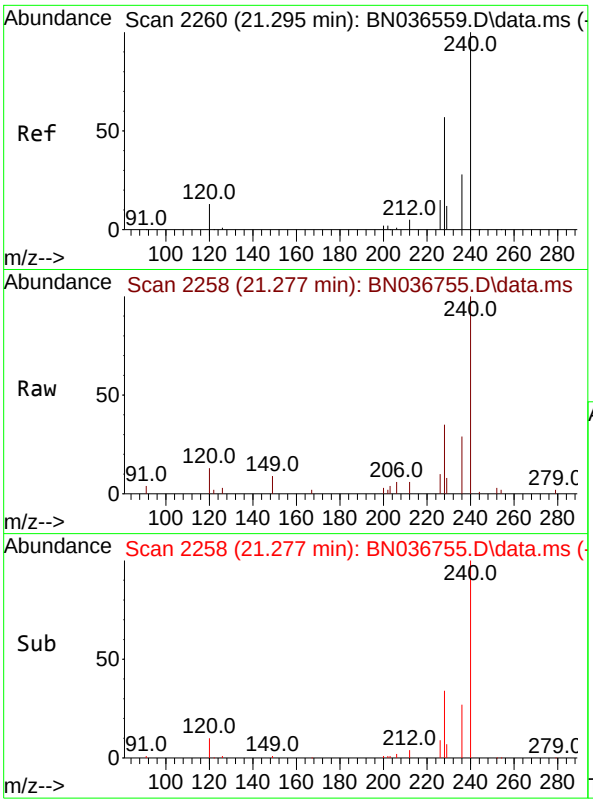


#28
Fluoranthene
Concen: 0.402 ng
RT: 19.150 min Scan# 1932
Delta R.T. -0.023 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:202 Resp: 8702

Ion	Ratio	Lower	Upper
202	100		
101	10.8	9.4	14.0
203	17.0	13.5	20.3

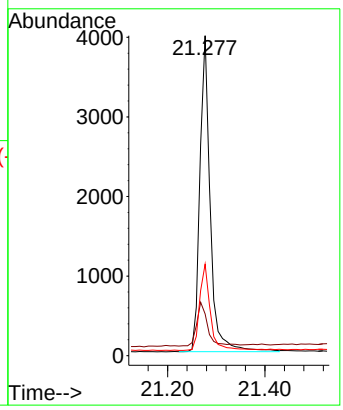




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:240 Resp: 586

Ion	Ratio	Lower	Upper
240	100		
120	13.0	14.6	22.0#
236	28.6	24.1	36.1



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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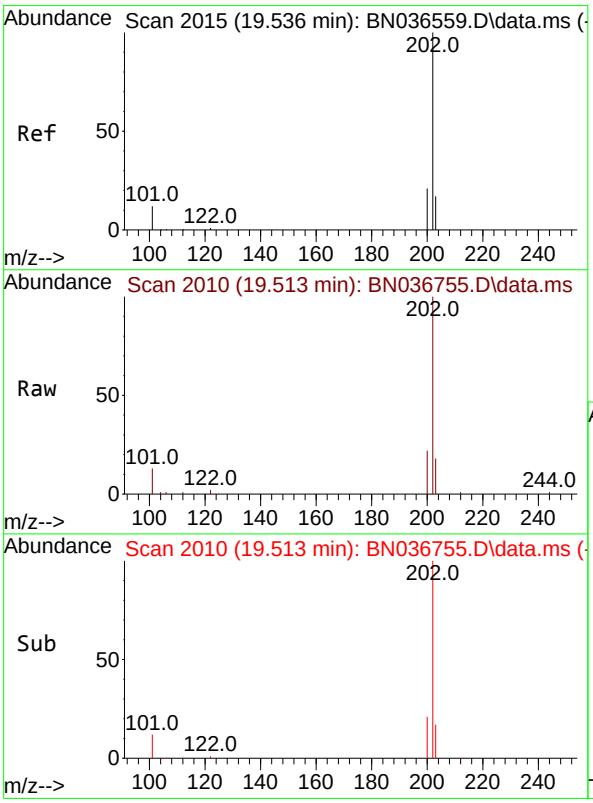
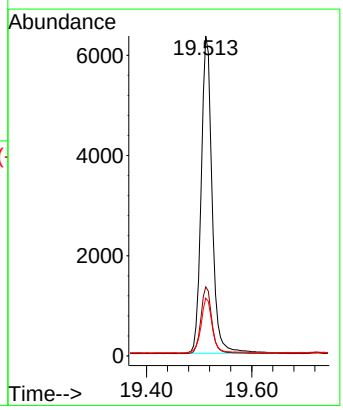
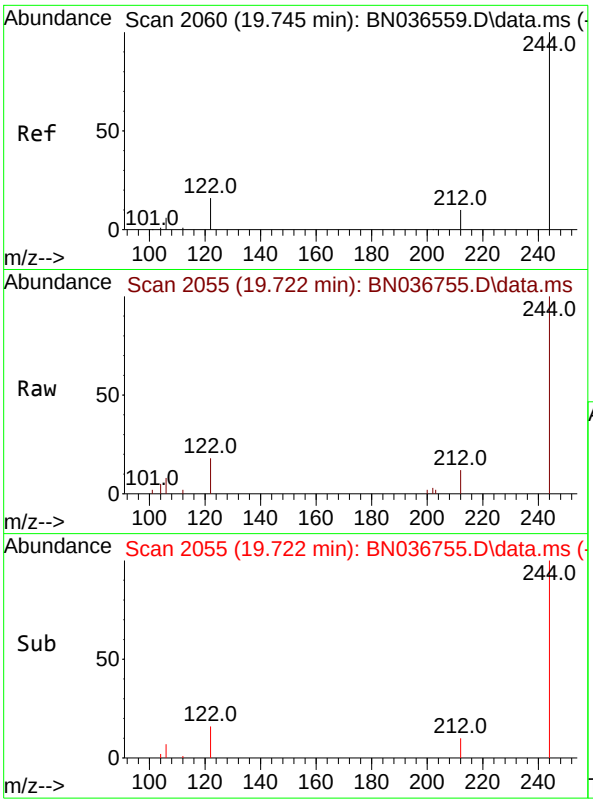


#30
Pyrene
Concen: 0.319 ng
RT: 19.513 min Scan# 2010
Delta R.T. -0.023 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:202 Resp: 9138

Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.1	25.7
203	17.8	14.1	21.1

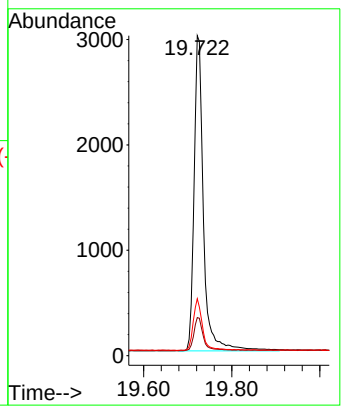




#31
Terphenyl-d14
Concen: 0.317 ng
RT: 19.722 min Scan# 2
Delta R.T. -0.023 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:244 Resp: 444

Ion	Ratio	Lower	Upper
244	100		
212	11.9	9.6	14.4
122	17.8	13.9	20.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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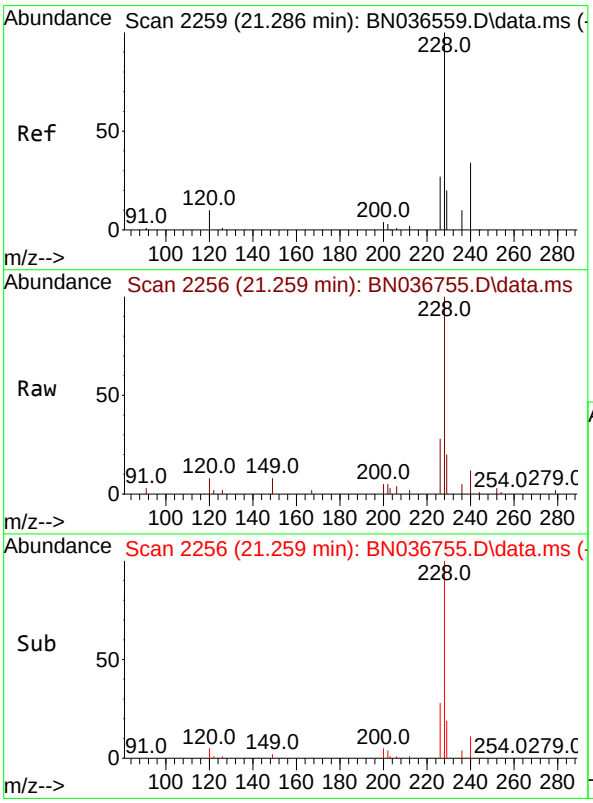
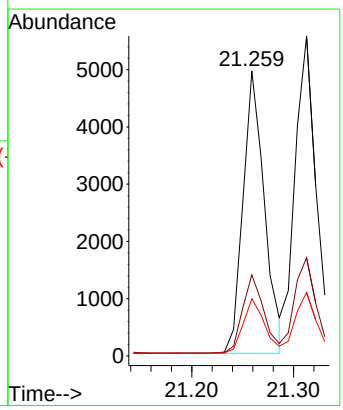
Supervised By :Jagrut Upadhyay 04/01/2025

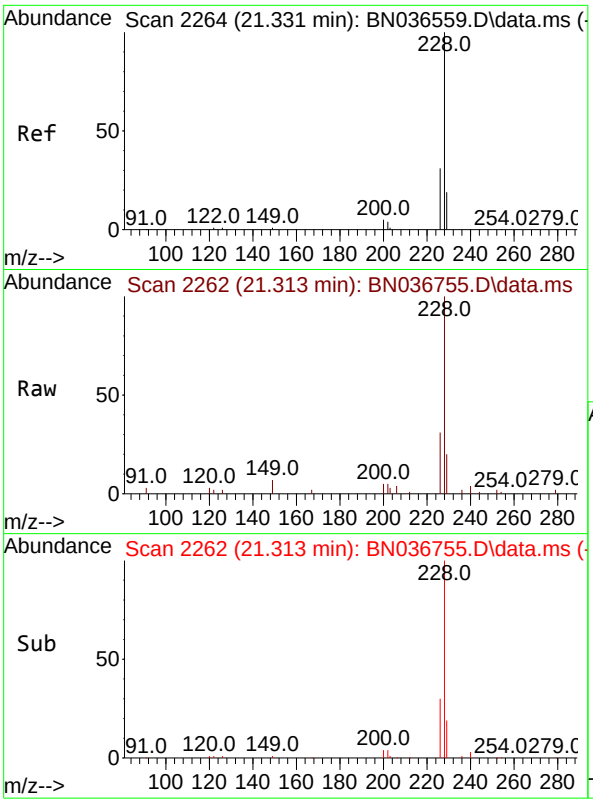


#32
Benzo(a)anthracene
Concen: 0.354 ng
RT: 21.259 min Scan# 2256
Delta R.T. -0.027 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:228 Resp: 7209

Ion	Ratio	Lower	Upper
228	100		
226	28.5	22.5	33.7
229	20.1	16.6	25.0





#33
Chrysene
Concen: 0.387 ng
RT: 21.313 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:228 Resp: 861

Ion	Ratio	Lower	Upper
228	100		
226	30.7	25.3	37.9
229	19.8	15.8	23.8

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
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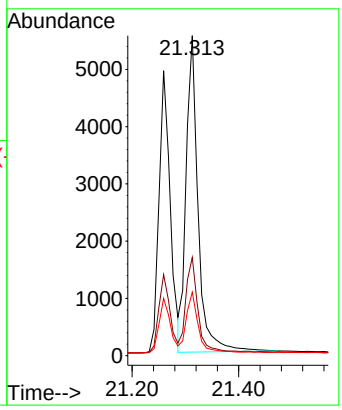
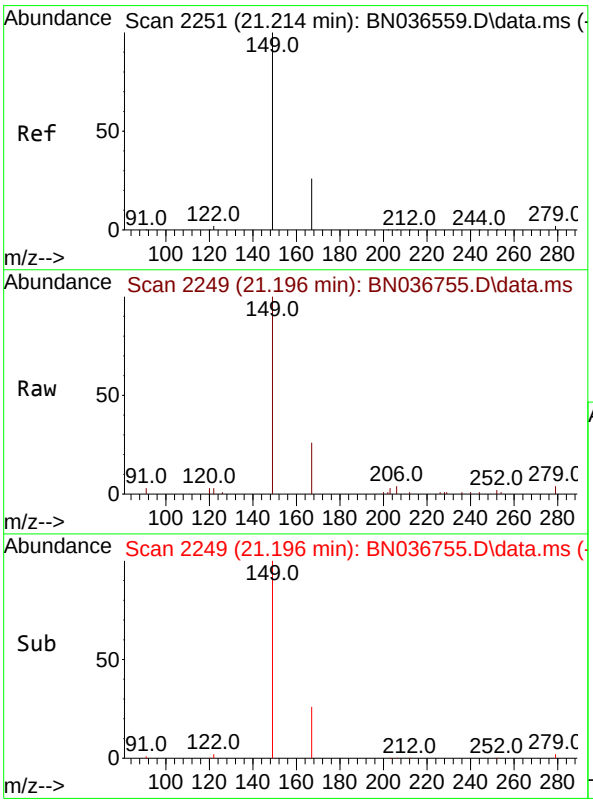
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

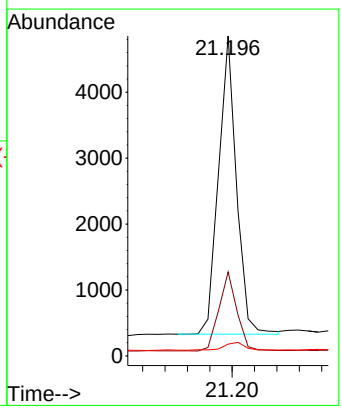


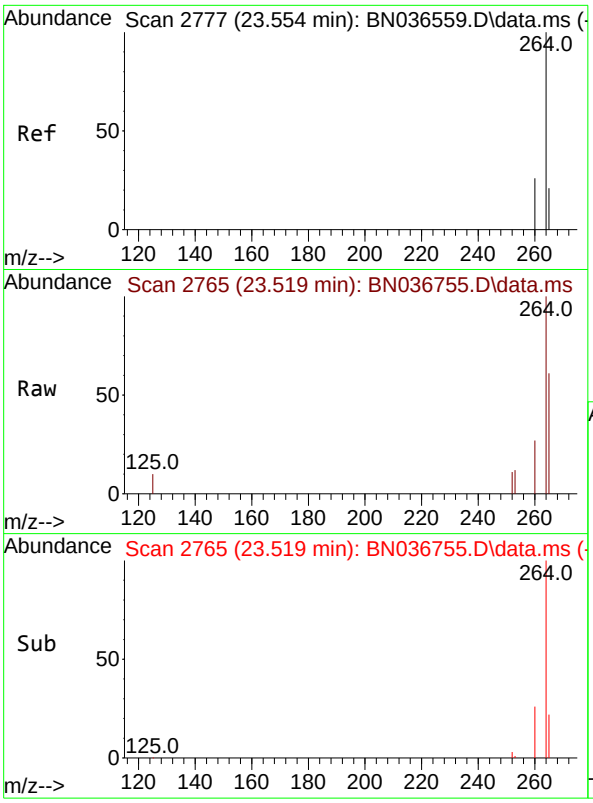


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.347 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:149 Resp: 5036

Ion	Ratio	Lower	Upper
149	100		
167	26.3	20.7	31.1
279	2.9	3.6	5.4#

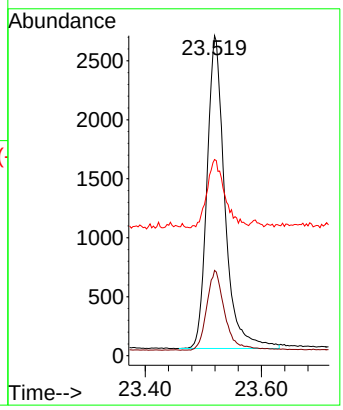




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.519 min Scan# 2
Delta R.T. -0.035 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:264 Resp: 564

Ion	Ratio	Lower	Upper
264	100		
260	26.7	22.6	33.8
265	61.3	88.1	132.1#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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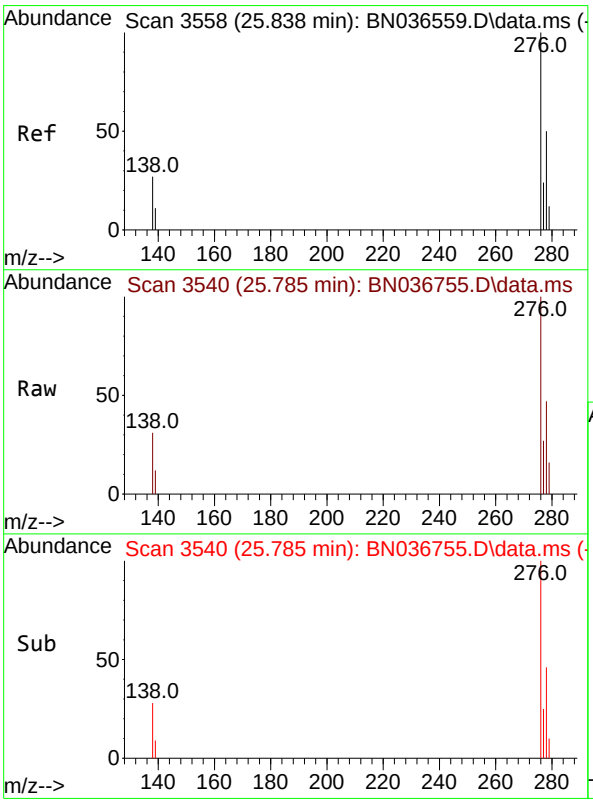
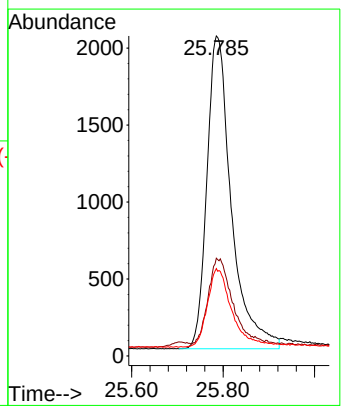
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

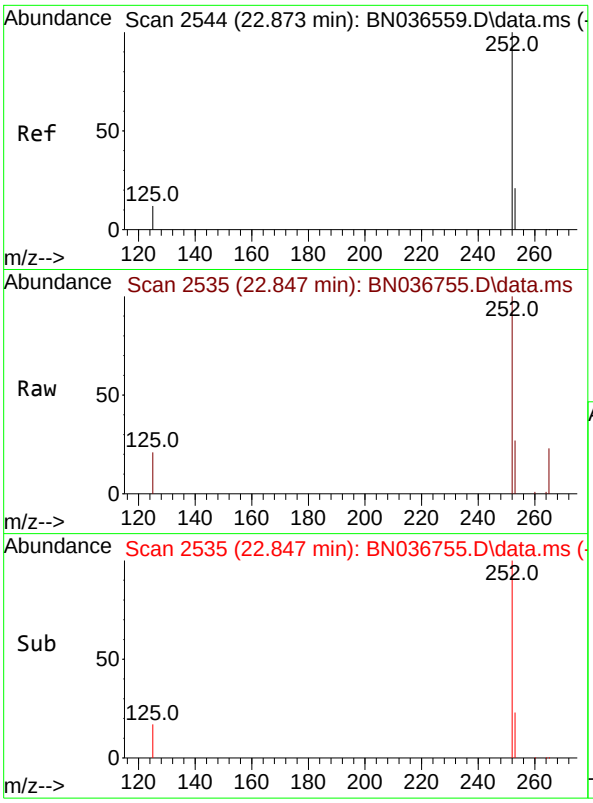


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.371 ng
RT: 25.785 min Scan# 3540
Delta R.T. -0.052 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:276 Resp: 7554

Ion	Ratio	Lower	Upper
276	100		
138	27.5	23.4	35.2
277	24.8	20.0	30.0

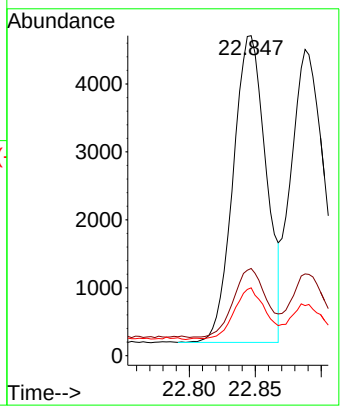




#37
Benzo(b)fluoranthene
Concen: 0.382 ng
RT: 22.847 min Scan# 2
Delta R.T. -0.026 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:252 Resp: 785

Ion	Ratio	Lower	Upper
252	100		
253	27.3	23.9	35.9
125	21.2	17.4	26.2



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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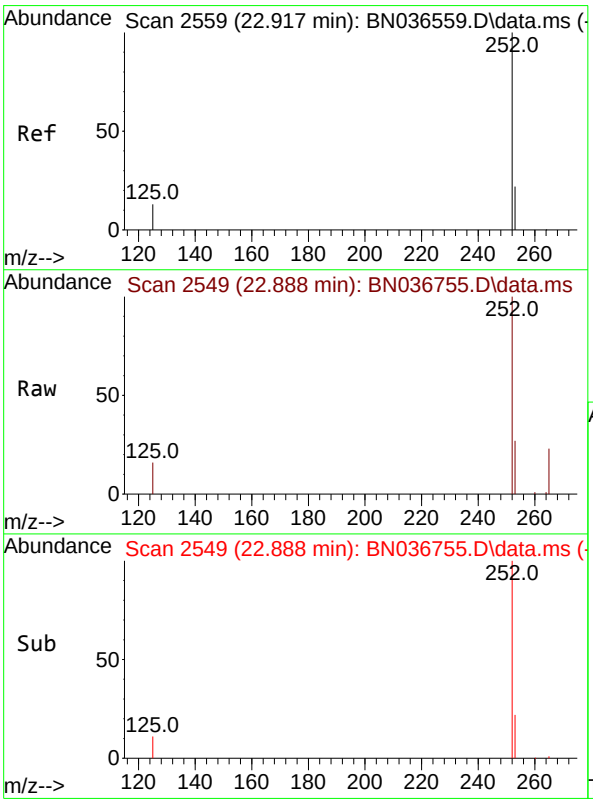
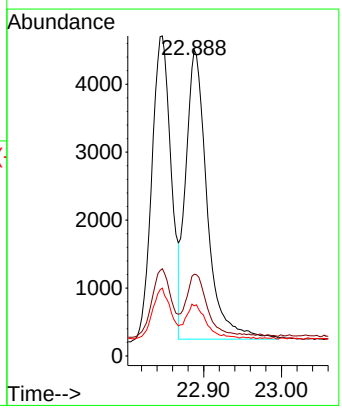
Supervised By :Jagrut Upadhyay 04/01/2025

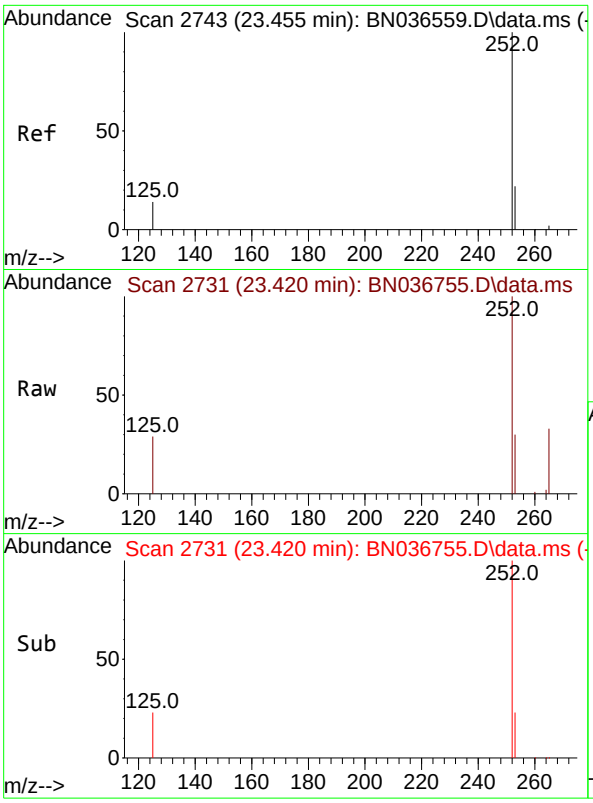


#38
Benzo(k)fluoranthene
Concen: 0.378 ng m
RT: 22.888 min Scan# 2549
Delta R.T. -0.029 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:252 Resp: 8148

Ion	Ratio	Lower	Upper
252	100		
253	26.7	24.6	36.8
125	16.3	17.8	26.8#

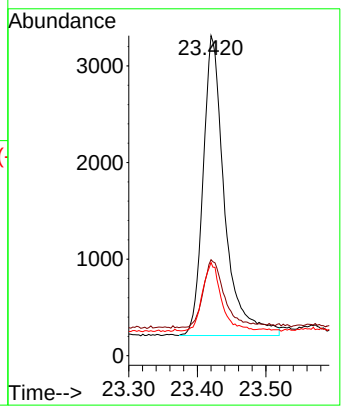




#39
Benzo(a)pyrene
Concen: 0.391 ng
RT: 23.420 min Scan# 2
Delta R.T. -0.035 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:252 Resp: 676

Ion	Ratio	Lower	Upper
252	100		
253	30.0	27.8	41.8
125	29.1	22.7	34.1



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
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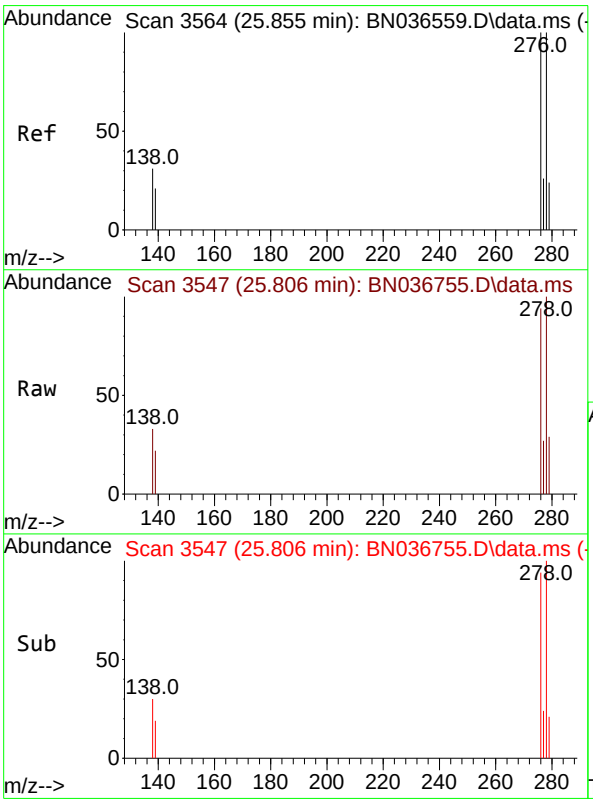
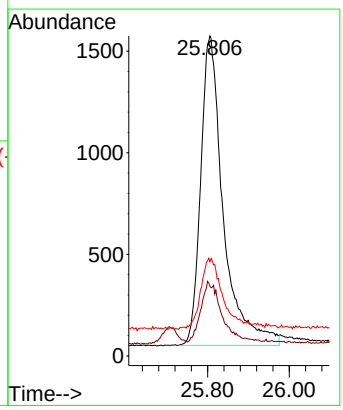
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

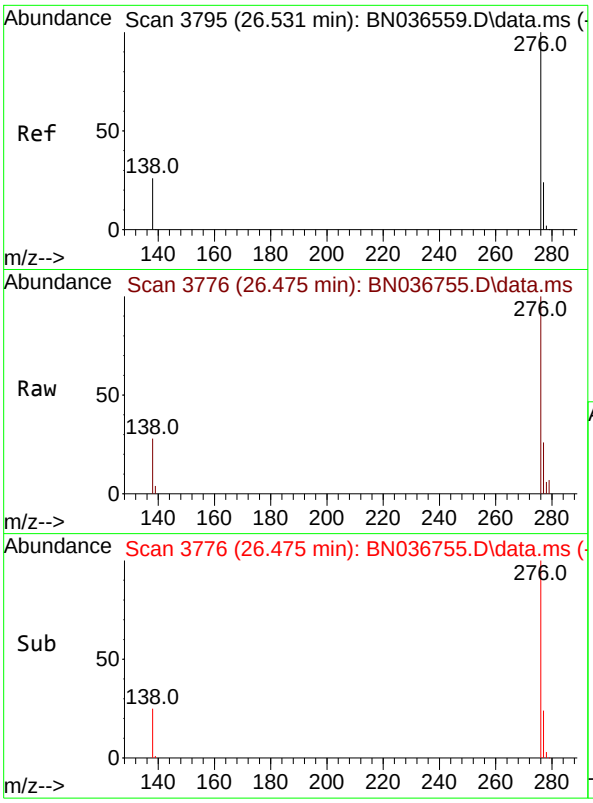


#40
Dibenzo(a,h)anthracene
Concen: 0.370 ng
RT: 25.806 min Scan# 3547
Delta R.T. -0.050 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:278 Resp: 5864

Ion	Ratio	Lower	Upper
278	100		
139	21.8	20.8	31.2
279	29.5	28.8	43.2

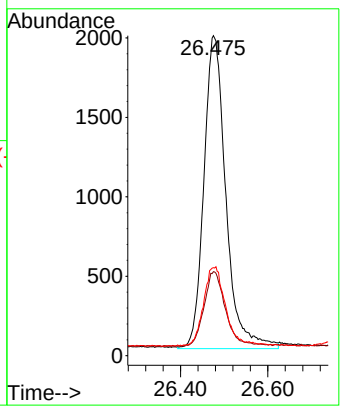




#41
Benzo(g,h,i)perylene
Concen: 0.380 ng m
RT: 26.475 min Scan# 3
Delta R.T. -0.055 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:276 Resp: 689

Ion	Ratio	Lower	Upper
276	100		
277	26.3	22.2	33.4
138	27.5	24.1	36.1



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
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Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036755.D
Acq On : 28 Mar 2025 01:52
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Mar 28 05:36:33 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	86	-0.02
2		1,4-Dioxane	0.444	0.464	-4.5	80	-0.01
3		n-Nitrosodimethylamine	0.898	0.887	1.2	82	-0.01
4	S	2-Fluorophenol	0.932	0.839	10.0	73	-0.02
5	S	Phenol-d6	1.152	1.005	12.8	77	-0.03
6		bis(2-Chloroethyl)ether	1.190	1.034	13.1	75	-0.03
7	I	Naphthalene-d8	1.000	1.000	0.0	93	-0.02
8	S	Nitrobenzene-d5	0.435	0.357	17.9	80	-0.02
9		Naphthalene	1.177	1.044	11.3	80	-0.03
10		Hexachlorobutadiene	0.277	0.253	8.7	80	-0.02
11	SURR	2-Methylnaphthalene-d10	0.595	0.516	13.3	79	-0.03
12		2-Methylnaphthalene	0.749	0.675	9.9	82	-0.03
13	I	Acenaphthene-d10	1.000	1.000	0.0	102	-0.03
14	S	2,4,6-Tribromophenol	0.182	0.170	6.6	92	-0.02
15	S	2-Fluorobiphenyl	2.327	1.853	20.4	78	-0.03
16		Acenaphthylene	1.888	1.645	12.9	86	-0.02
17		Acenaphthene	1.236	1.101	10.9	87	-0.03
18		Fluorene	1.672	1.522	9.0	88	-0.02
19	I	Phenanthrene-d10	1.000	1.000	0.0	107	-0.02
20		4,6-Dinitro-2-methylphenol	0.086	0.076	11.6	106	-0.02
21		4-Bromophenyl-phenylether	0.251	0.227	9.6	89	-0.02
22		Hexachlorobenzene	0.303	0.272	10.2	86	-0.01
23		Atrazine	0.201	0.192	4.5	96	-0.02
24		Pentachlorophenol	0.138	0.130	5.8	102	-0.04
25		Phenanthrene	1.200	1.161	3.2	96	-0.02
26		Anthracene	1.083	1.013	6.5	94	-0.02
27	SURR	Fluoranthene-d10	1.025	1.003	2.1	96	-0.02
28		Fluoranthene	1.348	1.356	-0.6	100	-0.02
29	I	Chrysene-d12	1.000	1.000	0.0	143	-0.02
30		Pyrene	1.956	1.559	20.3	104	-0.02
31	S	Terphenyl-d14	0.958	0.759	20.8	105	-0.02
32		Benzo(a)anthracene	1.391	1.230	11.6	122	-0.03
33		Chrysene	1.520	1.471	3.2	130	-0.02
34		Bis(2-ethylhexyl)phthalate	0.990	0.859	13.2	117	-0.02
35	I	Perylene-d12	1.000	1.000	0.0	160#	-0.03
36		Indeno(1,2,3-cd)pyrene	1.444	1.338	7.3	138	-0.05
37		Benzo(b)fluoranthene	1.456	1.390	4.5	143	-0.03
38		Benzo(k)fluoranthene	1.527	1.443	5.5	142	-0.03
39	C	Benzo(a)pyrene	1.226	1.197	2.4	147	-0.03
40		Dibenzo(a,h)anthracene	1.124	1.038	7.7	142	-0.05
41		Benzo(g,h,i)perylene	1.286	1.220	5.1	141	-0.06

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036755.D
Acq On : 28 Mar 2025 01:52
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Mar 28 05:36:33 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 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	-0.02
2		1,4-Dioxane	0.400	0.418	-4.5	80	-0.01
3		n-Nitrosodimethylamine	0.400	0.395	1.3	82	-0.01
4	S	2-Fluorophenol	0.400	0.360	10.0	73	-0.02
5	S	Phenol-d6	0.400	0.349	12.8	77	-0.03
6		bis(2-Chloroethyl)ether	0.400	0.347	13.3	75	-0.03
7	I	Naphthalene-d8	0.400	0.400	0.0	93	-0.02
8	S	Nitrobenzene-d5	0.400	0.328	18.0	80	-0.02
9		Naphthalene	0.400	0.355	11.3	80	-0.03
10		Hexachlorobutadiene	0.400	0.365	8.8	80	-0.02
11	SURR	2-Methylnaphthalene-d10	0.400	0.347	13.3	79	-0.03
12		2-Methylnaphthalene	0.400	0.361	9.8	82	-0.03
13	I	Acenaphthene-d10	0.400	0.400	0.0	102	-0.03
14	S	2,4,6-Tribromophenol	0.400	0.375	6.3	92	-0.02
15	S	2-Fluorobiphenyl	0.400	0.319	20.3	78	-0.03
16		Acenaphthylene	0.400	0.349	12.8	86	-0.02
17		Acenaphthene	0.400	0.356	11.0	87	-0.03
18		Fluorene	0.400	0.364	9.0	88	-0.02
19	I	Phenanthrene-d10	0.400	0.400	0.0	107	-0.02
20		4,6-Dinitro-2-methylphenol	0.400	0.444	-11.0	106	-0.02
21		4-Bromophenyl-phenylether	0.400	0.362	9.5	89	-0.02
22		Hexachlorobenzene	0.400	0.359	10.3	86	-0.01
23		Atrazine	0.400	0.382	4.5	96	-0.02
24		Pentachlorophenol	0.400	0.378	5.5	102	-0.04
25		Phenanthrene	0.400	0.387	3.3	96	-0.02
26		Anthracene	0.400	0.374	6.5	94	-0.02
27	SURR	Fluoranthene-d10	0.400	0.391	2.3	96	-0.02
28		Fluoranthene	0.400	0.402	-0.5	100	-0.02
29	I	Chrysene-d12	0.400	0.400	0.0	143	-0.02
30		Pyrene	0.400	0.319	20.3	104	-0.02
31	S	Terphenyl-d14	0.400	0.317	20.8	105	-0.02
32		Benzo(a)anthracene	0.400	0.354	11.5	122	-0.03
33		Chrysene	0.400	0.387	3.3	130	-0.02
34		Bis(2-ethylhexyl)phthalate	0.400	0.347	13.3	117	-0.02
35	I	Perylene-d12	0.400	0.400	0.0	160	-0.03
36		Indeno(1,2,3-cd)pyrene	0.400	0.371	7.3	138	-0.05
37		Benzo(b)fluoranthene	0.400	0.382	4.5	143	-0.03
38		Benzo(k)fluoranthene	0.400	0.378	5.5	142	-0.03
39	C	Benzo(a)pyrene	0.400	0.391	2.3	147	-0.03
40		Dibenzo(a,h)anthracene	0.400	0.370	7.5	142	-0.05
41		Benzo(g,h,i)perylene	0.400	0.380	5.0	141	-0.06

(#) = 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: TETR06

Lab Code: CHEM Case No.: Q1621 SAS No.: Q1621 SDG No.: Q1621

Instrument ID: BNA_N Calibration Date/Time: 03/28/2025 03:46

Lab File ID: BN036757.D Init. Calib. Date(s): 03/10/2025 03/10/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 11:42 15:19

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.595	0.509		-14.5	20.0
Fluoranthene-d10	1.025	1.053		2.7	20.0
2-Fluorophenol	0.932	0.782		-16.1	20.0
Phenol-d6	1.152	0.986		-14.4	20.0
Nitrobenzene-d5	0.435	0.370		-14.9	20.0
2-Fluorobiphenyl	2.327	2.013		-13.5	20.0
2,4,6-Tribromophenol	0.182	0.184		1.1	20.0
Terphenyl-d14	0.958	0.749		-21.8	20.0
1,4-Dioxane	0.444	0.442		-0.4	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036757.D
Acq On : 28 Mar 2025 03:46
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Mar 28 05:36:56 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.703	152	1974	0.400	ng		-0.02
7) Naphthalene-d8	10.488	136	4607	0.400	ng		-0.02
13) Acenaphthene-d10	14.334	164	2750	0.400	ng		-0.03
19) Phenanthrene-d10	17.087	188	5937	0.400	ng		-0.02
29) Chrysene-d12	21.277	240	5680	0.400	ng		#-0.02
35) Perylene-d12	23.519	264	5140	0.400	ng		#-0.03
System Monitoring Compounds							
4) 2-Fluorophenol	5.291	112	1543	0.335	ng		-0.02
5) Phenol-d6	6.872	99	1947	0.343	ng		-0.03
8) Nitrobenzene-d5	8.854	82	1705	0.340	ng		-0.02
11) 2-Methylnaphthalene-d10	12.080	152	2347	0.342	ng		-0.03
14) 2,4,6-Tribromophenol	15.833	330	507	0.406	ng		-0.02
15) 2-Fluorobiphenyl	12.963	172	5537	0.346	ng		-0.03
27) Fluoranthene-d10	19.118	212	6252	0.411	ng		-0.02
31) Terphenyl-d14	19.722	244	4254	0.313	ng		-0.02
Target Compounds							Qvalue
2) 1,4-Dioxane	3.225	88	873	0.399	ng		97
3) n-Nitrosodimethylamine	3.536	42	1735	0.392	ng		95
6) bis(2-Chloroethyl)ether	7.125	93	2072	0.353	ng		98
9) Naphthalene	10.530	128	4865	0.359	ng		99
10) Hexachlorobutadiene	10.829	225	1140	0.357	ng	#	99
12) 2-Methylnaphthalene	12.157	142	3049	0.354	ng		98
16) Acenaphthylene	14.056	152	4680	0.361	ng		99
17) Acenaphthene	14.398	154	3124	0.368	ng		100
18) Fluorene	15.393	166	4263	0.371	ng		99
20) 4,6-Dinitro-2-methylph...	15.478	198	472	0.457	ng		83
21) 4-Bromophenyl-phenylether	16.280	248	1382	0.372	ng		91
22) Hexachlorobenzene	16.391	284	1636	0.364	ng		97
23) Atrazine	16.553	200	1154	0.387	ng		97
24) Pentachlorophenol	16.739	266	868	0.424	ng		97
25) Phenanthrene	17.124	178	6866	0.386	ng		100
26) Anthracene	17.223	178	6014	0.374	ng		99
28) Fluoranthene	19.150	202	8476	0.424	ng		99
30) Pyrene	19.513	202	9024	0.325	ng		100
32) Benzo(a)anthracene	21.259	228	7146	0.362	ng		99
33) Chrysene	21.313	228	8272	0.383	ng		99
34) Bis(2-ethylhexyl)phtha...	21.196	149	5431	0.386	ng	#	99
36) Indeno(1,2,3-cd)pyrene	25.782	276	7314	0.394	ng		95
37) Benzo(b)fluoranthene	22.841	252	7293	0.390	ng		95
38) Benzo(k)fluoranthene	22.888	252	7751m	0.395	ng		
39) Benzo(a)pyrene	23.420	252	6291	0.399	ng		95
40) Dibenzo(a,h)anthracene	25.803	278	5522	0.382	ng		91
41) Benzo(g,h,i)perylene	26.475	276	6376	0.386	ng		94

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

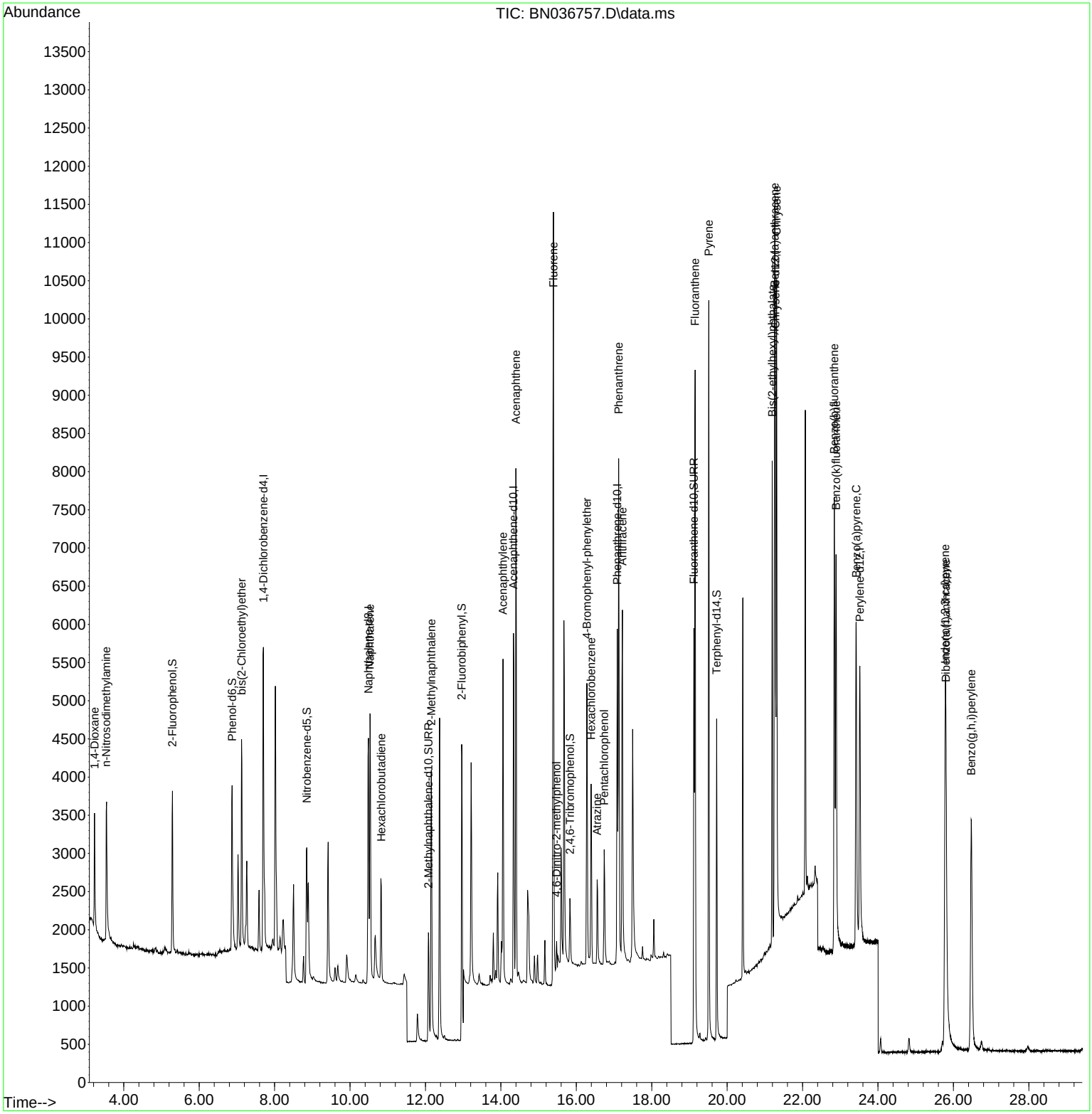
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036757.D
Acq On : 28 Mar 2025 03:46
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 22 Sample Multiplier: 1

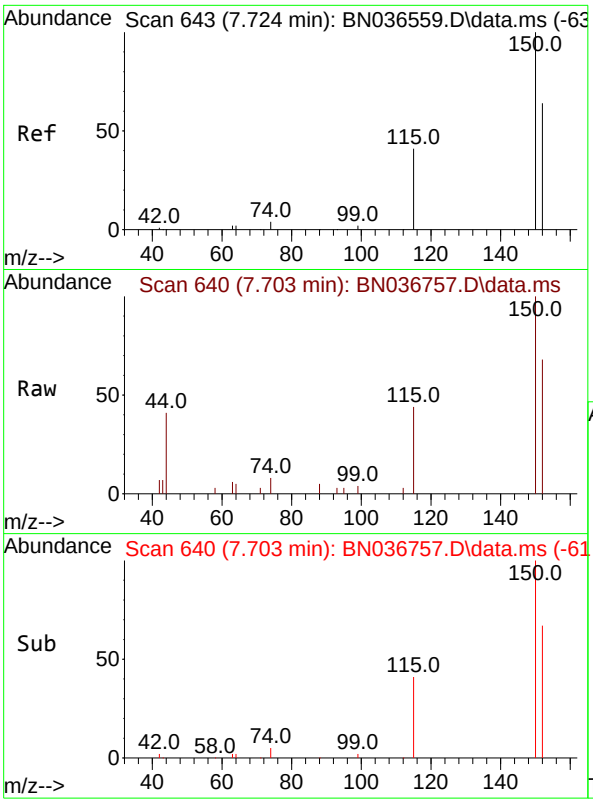
Quant Time: Mar 28 05:36:56 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

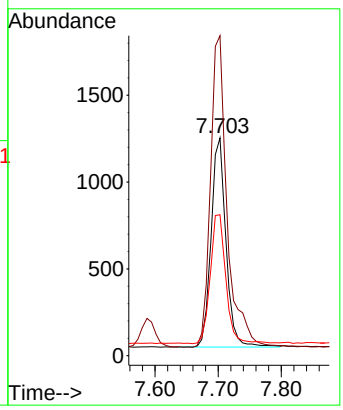




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.703 min Scan# 64
Delta R.T. -0.021 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:152 Resp: 197

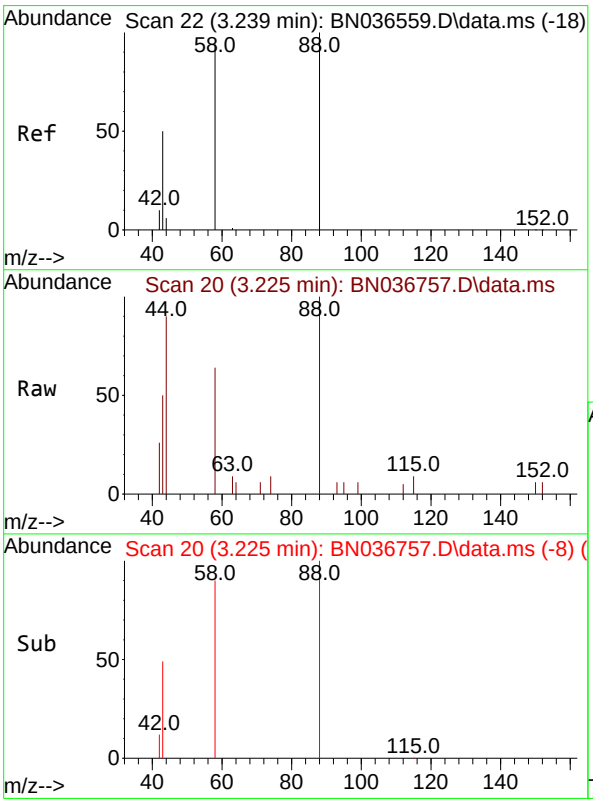
Ion	Ratio	Lower	Upper
152	100		
150	147.0	123.7	185.5
115	64.8	54.3	81.5



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

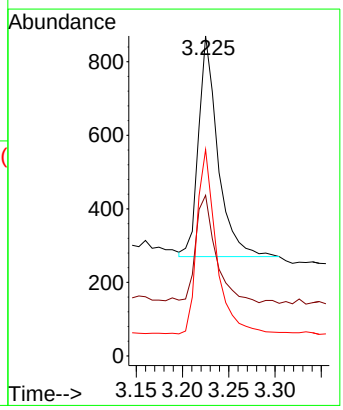
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

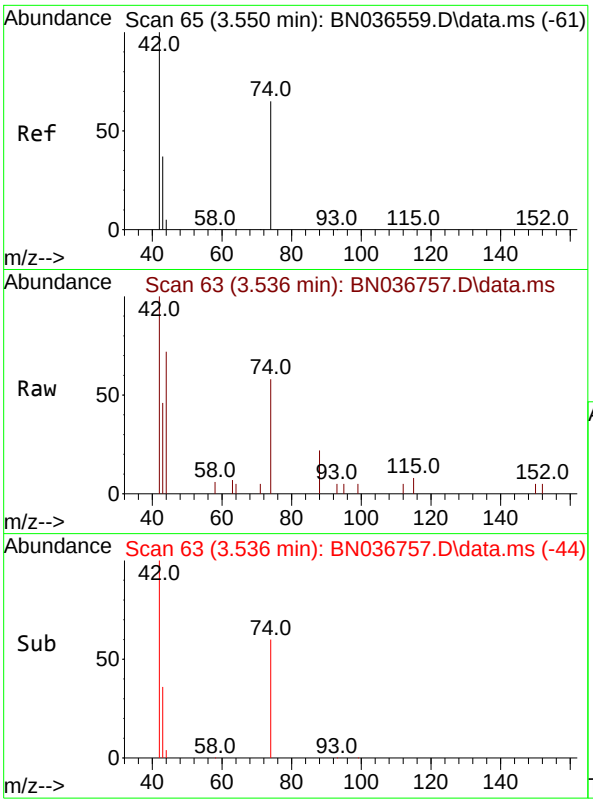


#2
1,4-Dioxane
Concen: 0.399 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion: 88 Resp: 873

Ion	Ratio	Lower	Upper
88	100		
43	51.8	37.8	56.8
58	83.6	67.4	101.2

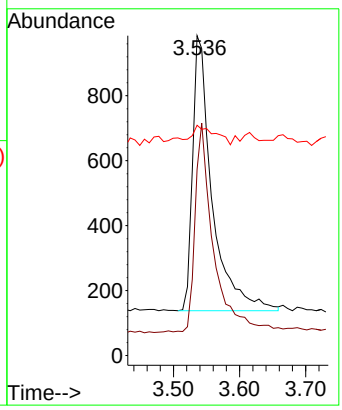




#3
n-Nitrosodimethylamine
Concen: 0.392 ng
RT: 3.536 min Scan# 6
Delta R.T. -0.014 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion: 42 Resp: 173

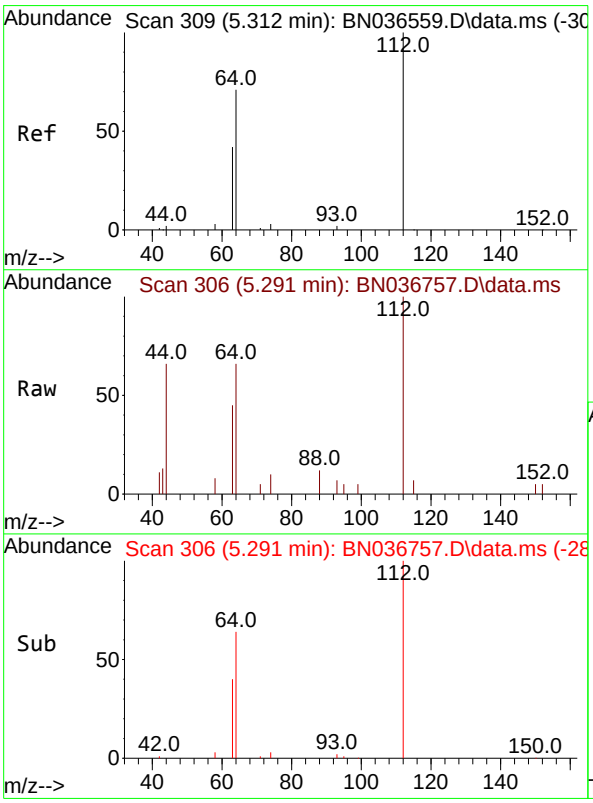
Ion	Ratio	Lower	Upper
42	100		
74	70.8	60.6	90.8
44	8.1	6.3	9.5



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

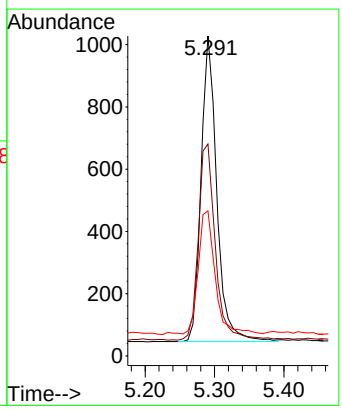
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

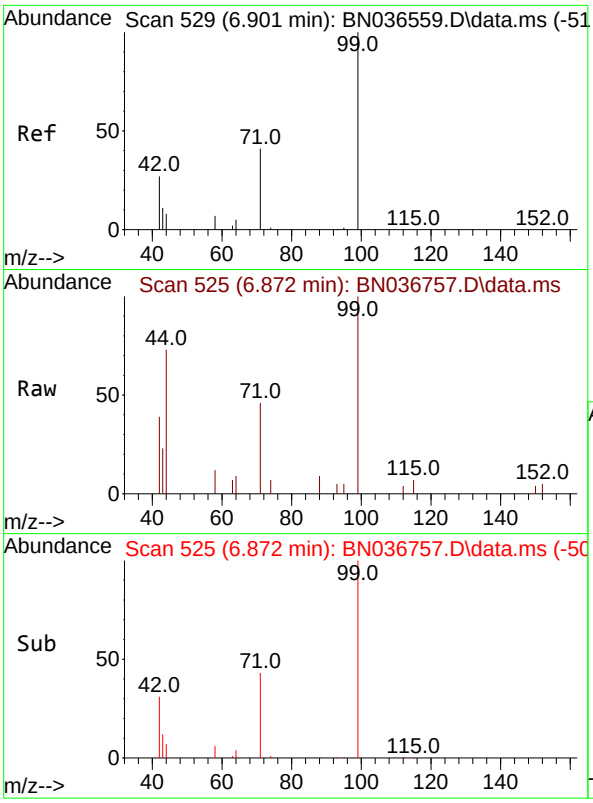


#4
2-Fluorophenol
Concen: 0.335 ng
RT: 5.291 min Scan# 306
Delta R.T. -0.022 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:112 Resp: 1543

Ion	Ratio	Lower	Upper
112	100		
64	69.8	53.1	79.7
63	43.0	31.8	47.8

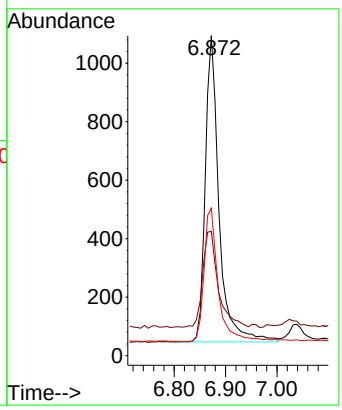




#5
Phenol-d6
Concen: 0.343 ng
RT: 6.872 min Scan# 5
Delta R.T. -0.029 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion: 99 Resp: 194

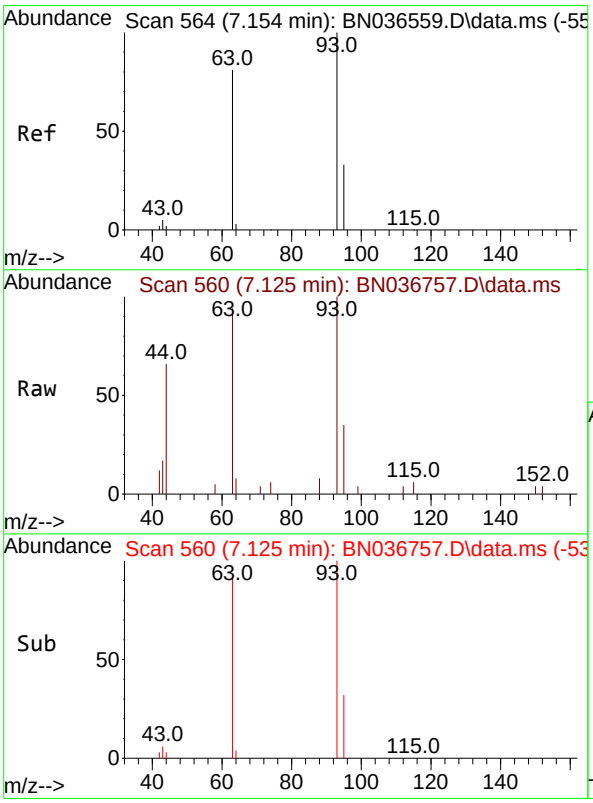
Ion	Ratio	Lower	Upper
99	100		
42	35.4	26.5	39.7
71	46.1	34.1	51.1



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

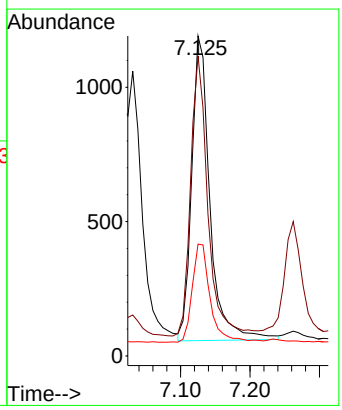
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

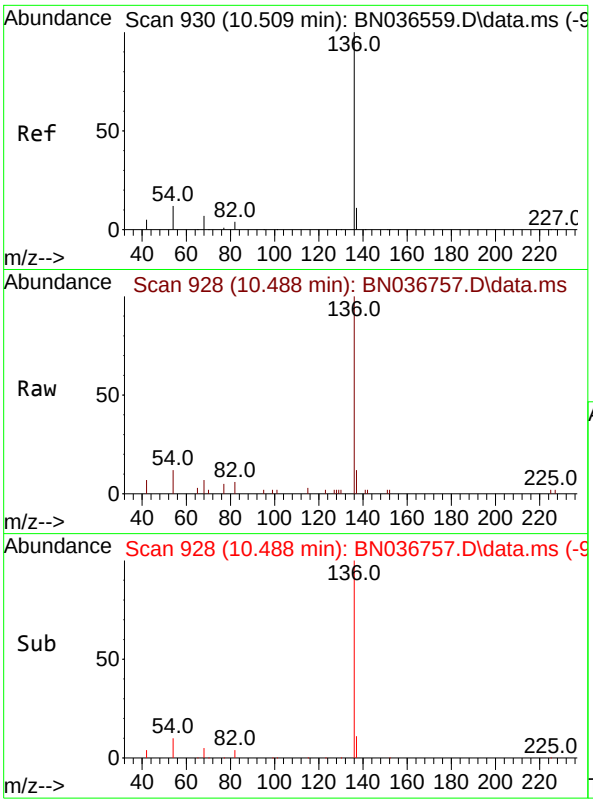


#6
bis(2-Chloroethyl)ether
Concen: 0.353 ng
RT: 7.125 min Scan# 560
Delta R.T. -0.029 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion: 93 Resp: 2072

Ion	Ratio	Lower	Upper
93	100		
63	86.9	67.7	101.5
95	31.7	25.6	38.4

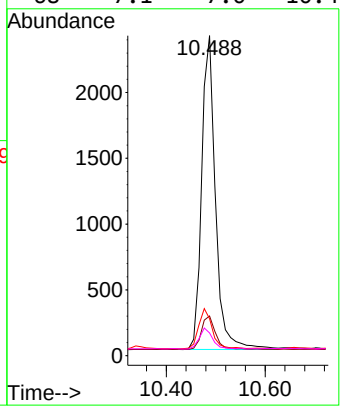




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.488 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:136 Resp: 460

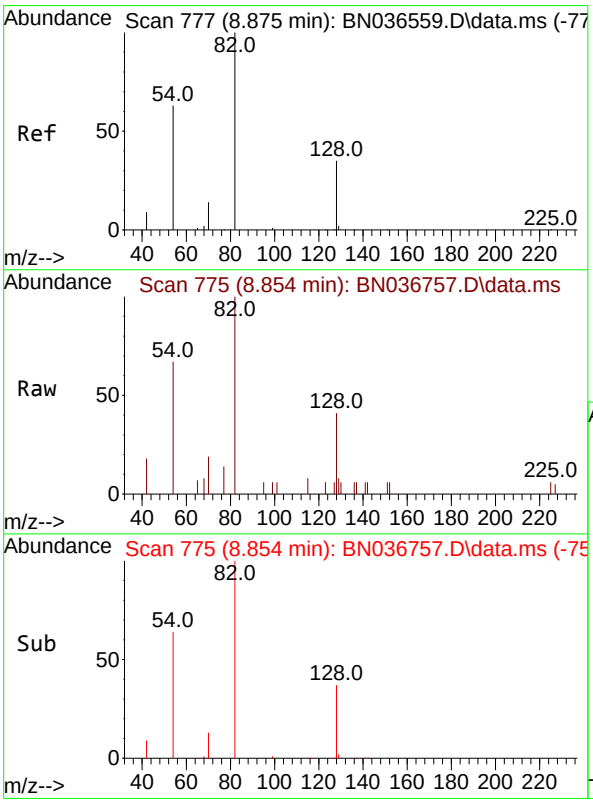
Ion	Ratio	Lower	Upper
136	100		
137	12.4	10.3	15.5
54	11.6	11.5	17.3
68	7.1	7.0	10.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

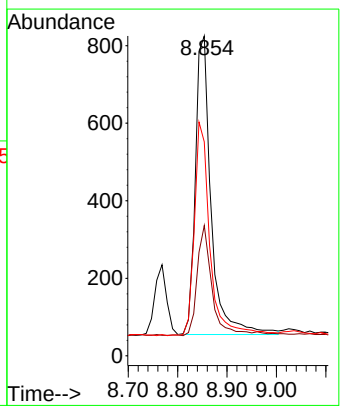
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

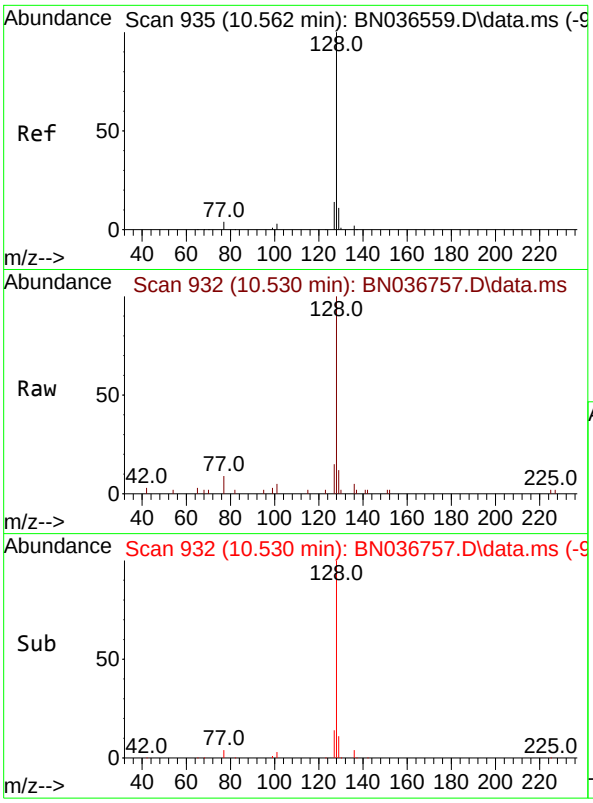


#8
Nitrobenzene-d5
Concen: 0.340 ng
RT: 8.854 min Scan# 775
Delta R.T. -0.021 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion: 82 Resp: 1705

Ion	Ratio	Lower	Upper
82	100		
128	40.7	30.6	45.8
54	66.9	52.2	78.4

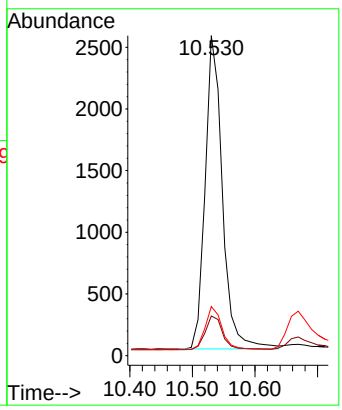




#9
Naphthalene
Concen: 0.359 ng
RT: 10.530 min Scan# 9
Delta R.T. -0.032 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:128 Resp: 486

Ion	Ratio	Lower	Upper
128	100		
129	12.4	9.8	14.6
127	15.3	11.8	17.8



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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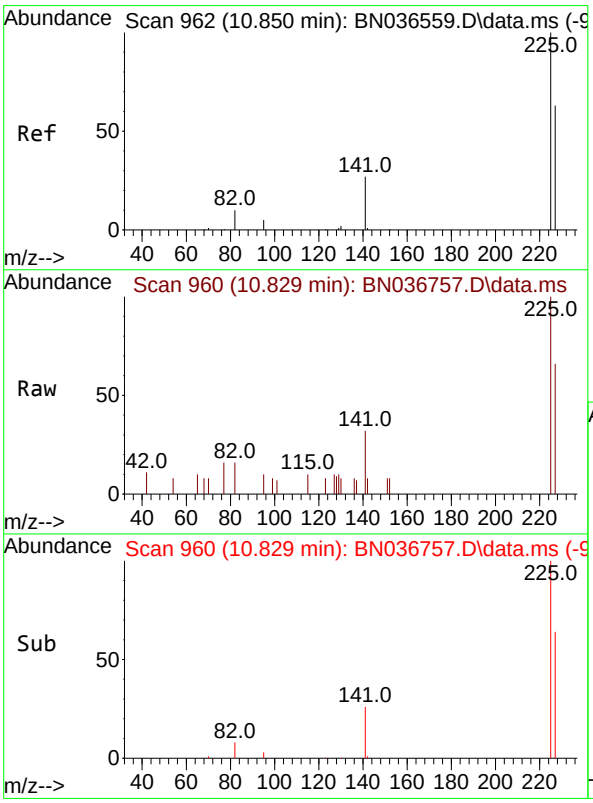
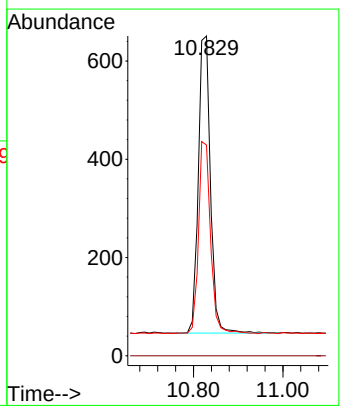
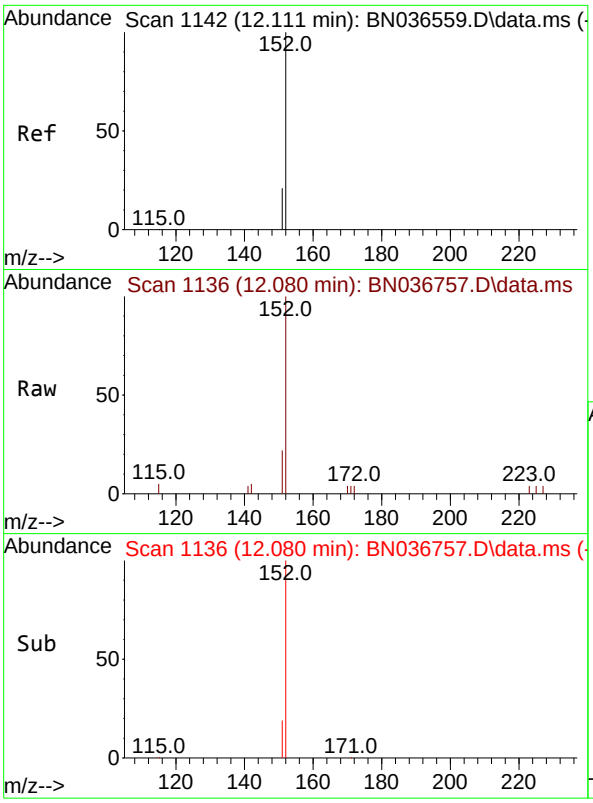


#10
Hexachlorobutadiene
Concen: 0.357 ng
RT: 10.829 min Scan# 960
Delta R.T. -0.021 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:225 Resp: 1140

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.3	51.8	77.8





#11
2-Methylnaphthalene-d10
Concen: 0.342 ng
RT: 12.080 min Scan# 1
Delta R.T. -0.030 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:152 Resp: 234

Ion	Ratio	Lower	Upper
152	100		
151	21.6	17.0	25.6

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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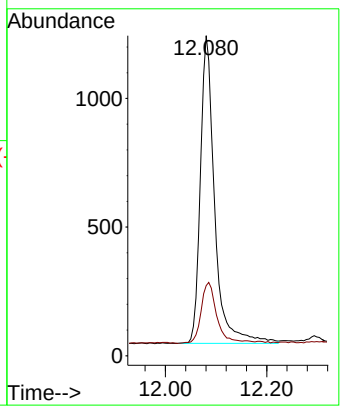
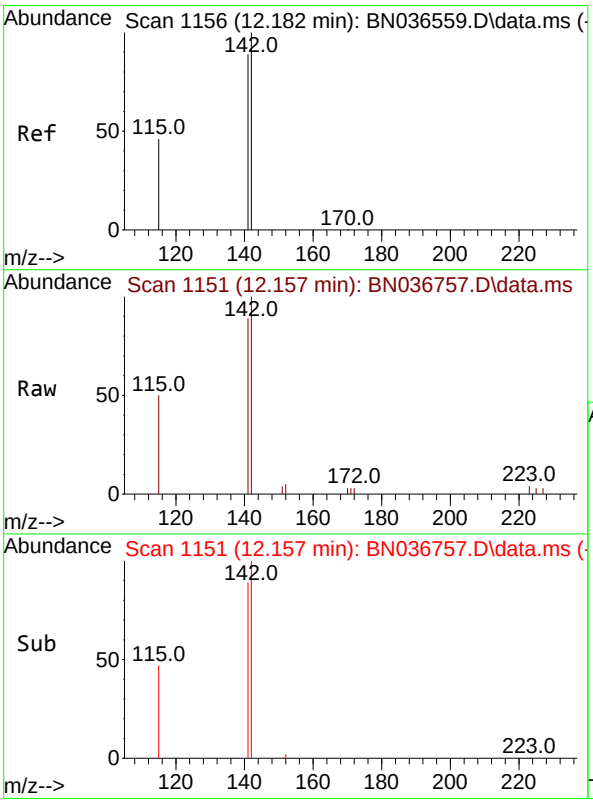
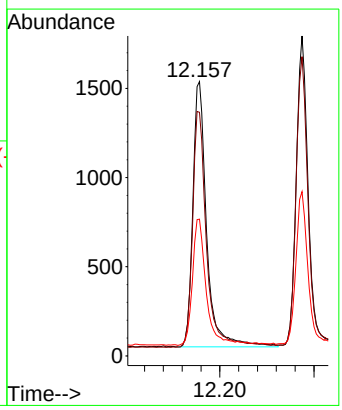


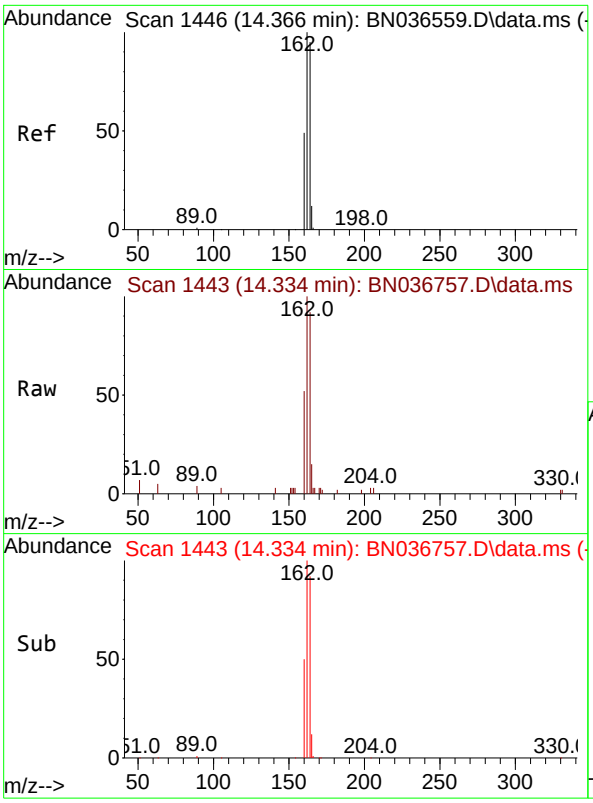


#12
2-Methylnaphthalene
Concen: 0.354 ng
RT: 12.157 min Scan# 1151
Delta R.T. -0.025 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:142 Resp: 3049

Ion	Ratio	Lower	Upper
142	100		
141	88.8	71.7	107.5
115	49.9	38.3	57.5

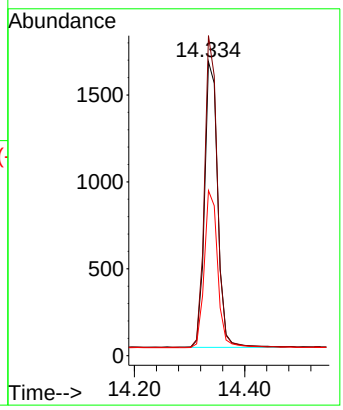




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:164 Resp: 275

Ion	Ratio	Lower	Upper
164	100		
162	108.9	84.2	126.2
160	56.2	42.2	63.2



Instrument :
BNA_N
ClientSampleId :
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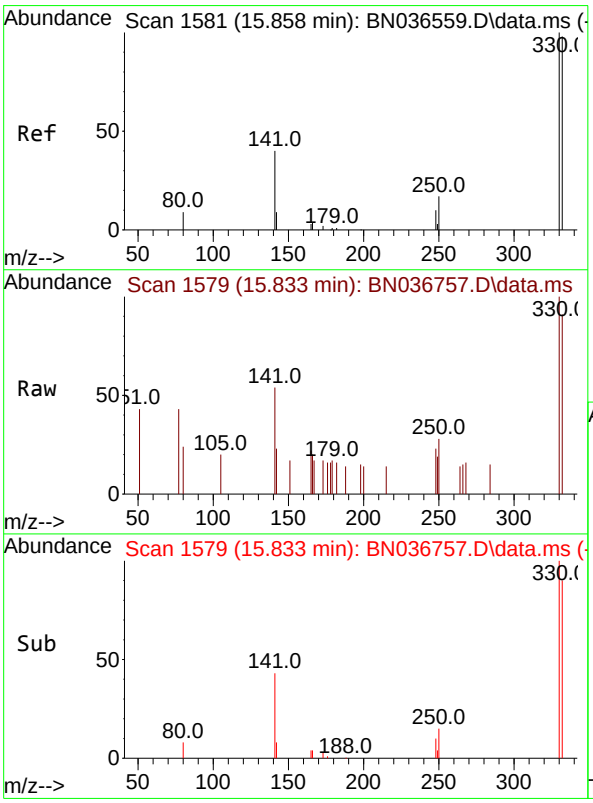
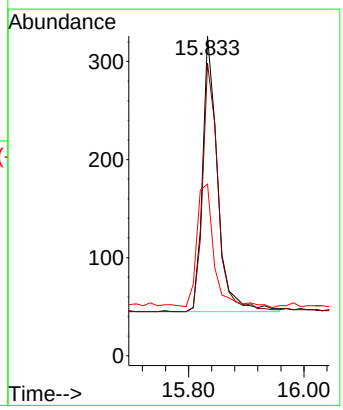
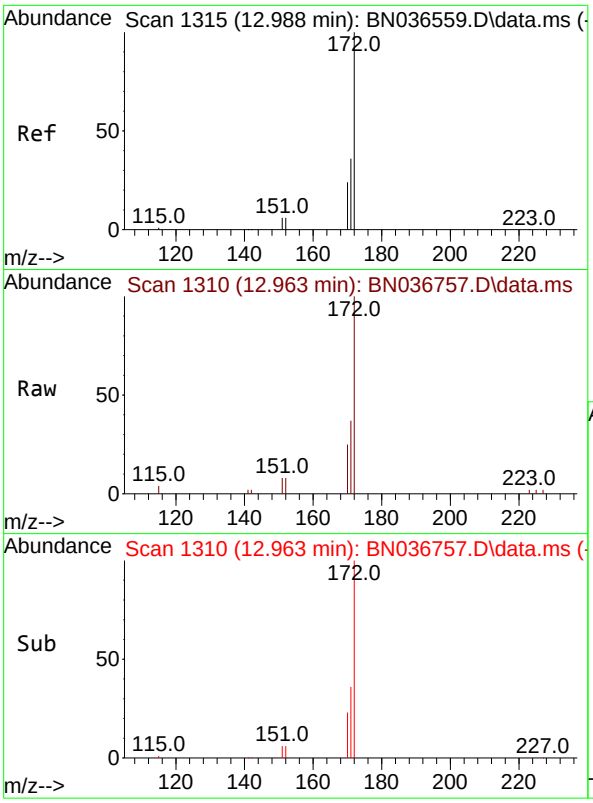


#14
2,4,6-Tribromophenol
Concen: 0.406 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.025 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:330 Resp: 507

Ion	Ratio	Lower	Upper
330	100		
332	92.9	75.2	112.8
141	52.3	43.4	65.2

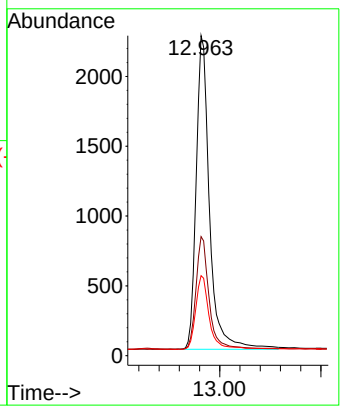




#15
2-Fluorobiphenyl
Concen: 0.346 ng
RT: 12.963 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:172 Resp: 553

Ion	Ratio	Lower	Upper
172	100		
171	37.2	29.5	44.3
170	25.0	20.2	30.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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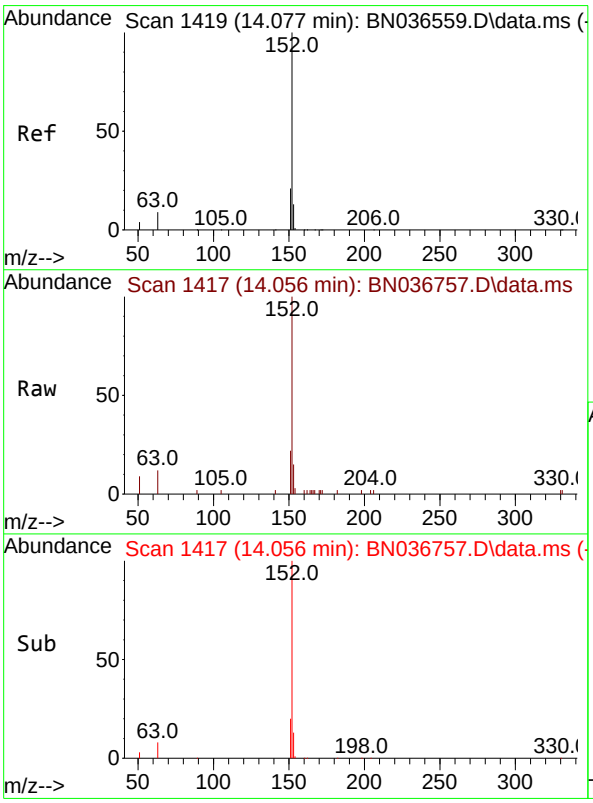
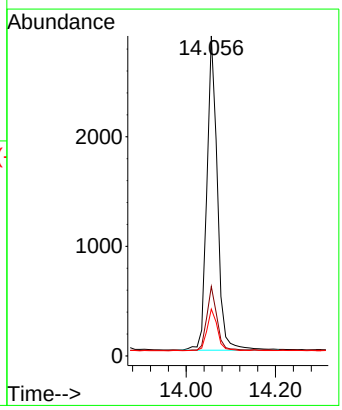
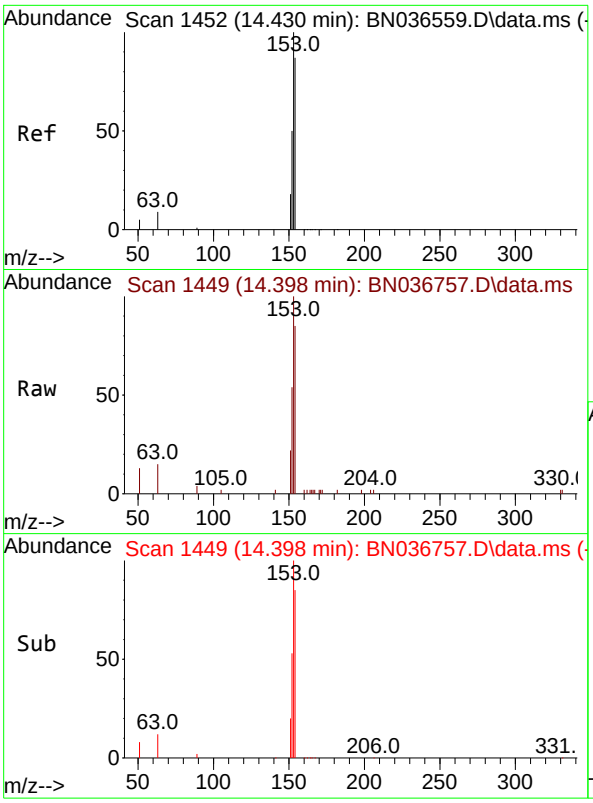


#16
Acenaphthylene
Concen: 0.361 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.021 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:152 Resp: 4680

Ion	Ratio	Lower	Upper
152	100		
151	19.7	16.2	24.4
153	13.4	10.6	15.8

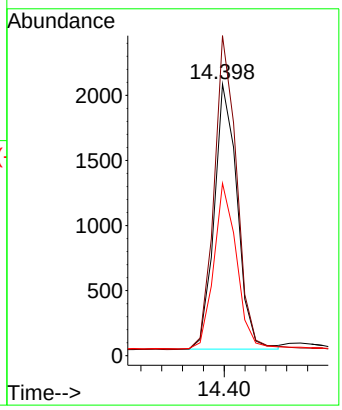




#17
Acenaphthene
Concen: 0.368 ng
RT: 14.398 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:154 Resp: 312

Ion	Ratio	Lower	Upper
154	100		
153	117.8	94.1	141.1
152	62.6	49.8	74.6



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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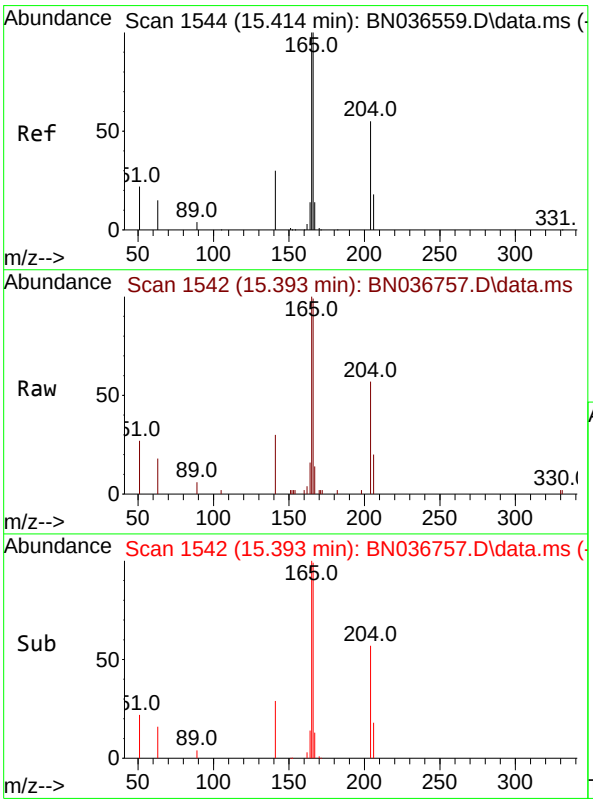
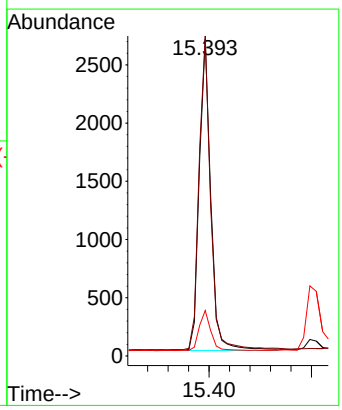
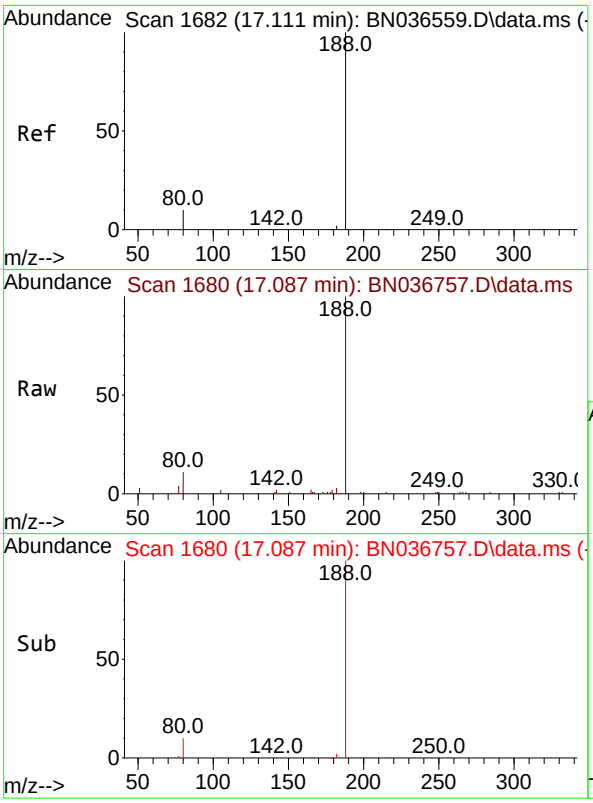


#18
Fluorene
Concen: 0.371 ng
RT: 15.393 min Scan# 1542
Delta R.T. -0.021 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:166 Resp: 4263

Ion	Ratio	Lower	Upper
166	100		
165	100.3	79.8	119.8
167	12.7	10.6	15.8

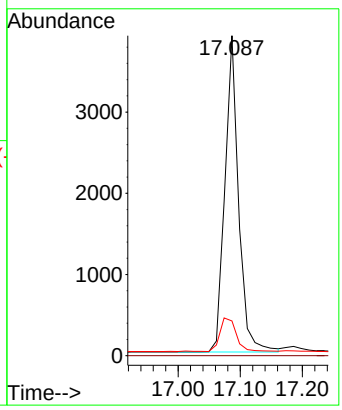




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.087 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:188 Resp: 593

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.8	8.8	13.2



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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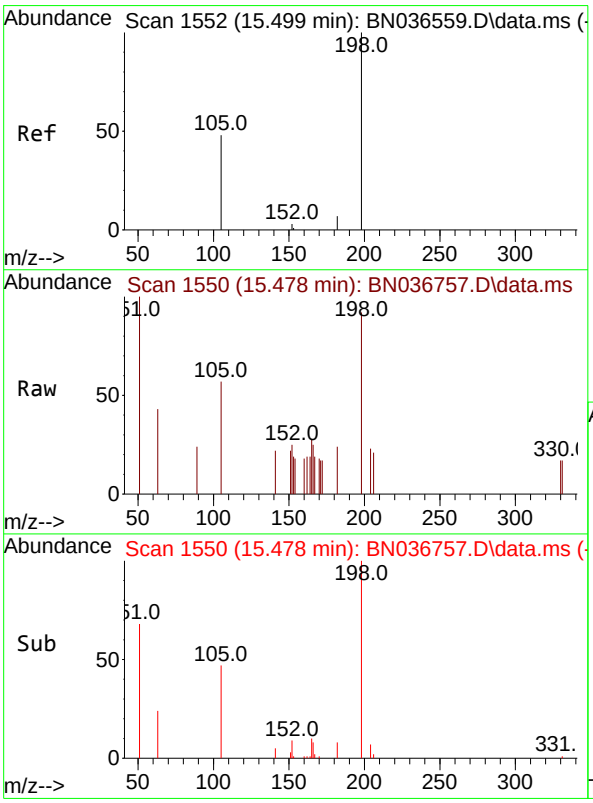
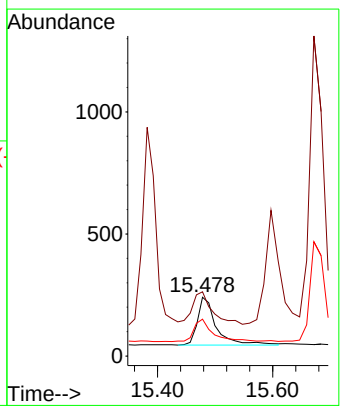
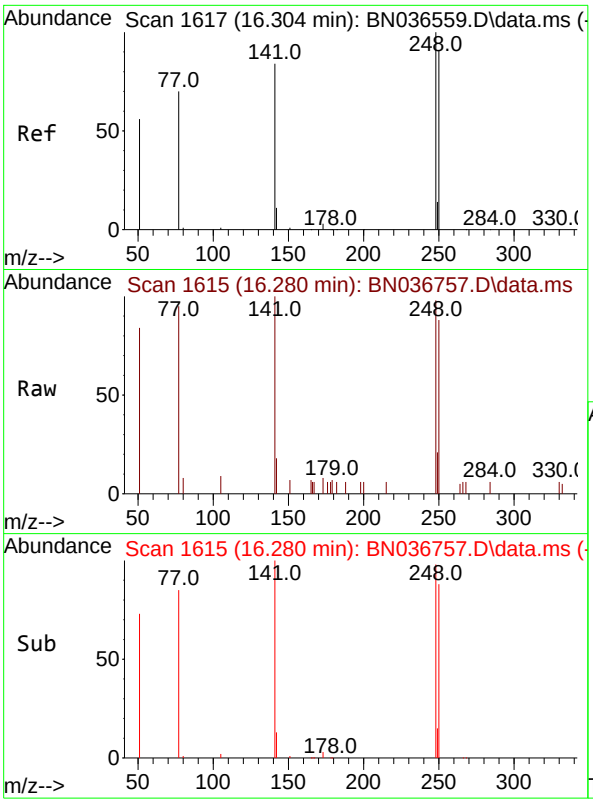


#20
4,6-Dinitro-2-methylphenol
Concen: 0.457 ng
RT: 15.478 min Scan# 1550
Delta R.T. -0.021 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:198 Resp: 472

Ion	Ratio	Lower	Upper
198	100		
51	109.1	107.9	161.9
105	62.7	56.2	84.2





#21
4-Bromophenyl-phenylether
Concen: 0.372 ng
RT: 16.280 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:248 Resp: 138

Ion	Ratio	Lower	Upper
248	100		
250	90.2	73.0	109.6
141	102.0	68.6	103.0

Instrument :
BNA_N
ClientSampleId :
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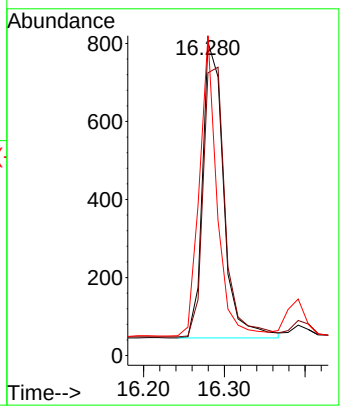
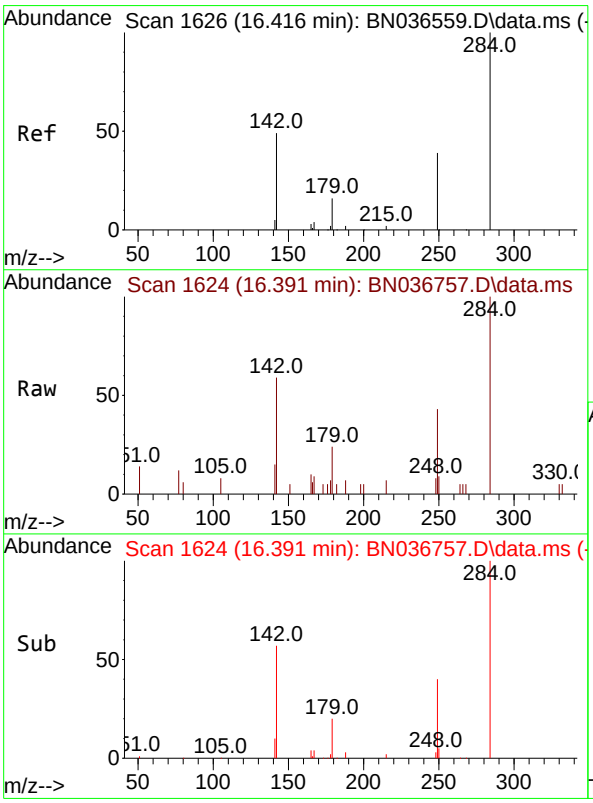
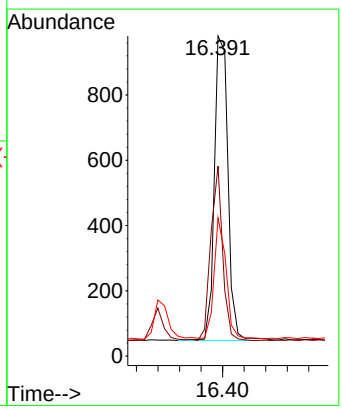


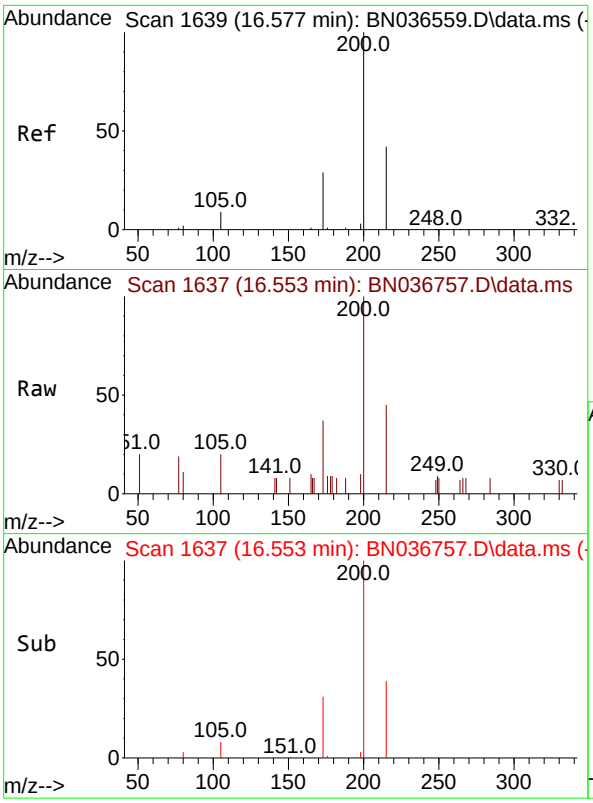


#22
Hexachlorobenzene
Concen: 0.364 ng
RT: 16.391 min Scan# 1624
Delta R.T. -0.025 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:284 Resp: 1636

Ion	Ratio	Lower	Upper
284	100		
142	49.6	37.0	55.4
249	35.2	28.1	42.1

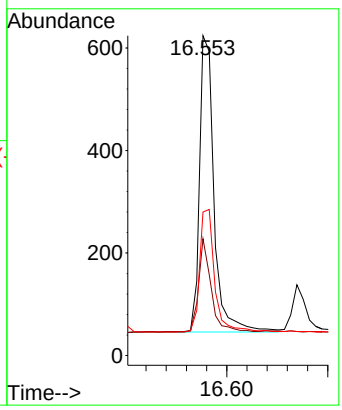




#23
Atrazine
Concen: 0.387 ng
RT: 16.553 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:200 Resp: 115

Ion	Ratio	Lower	Upper
200	100		
173	36.5	27.3	40.9
215	44.9	36.8	55.2



Instrument :
BNA_N
ClientSampleId :
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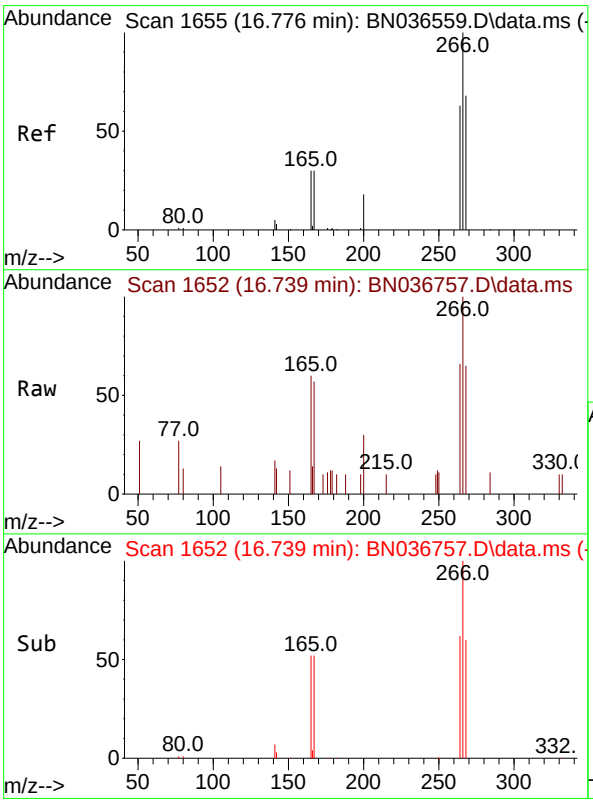
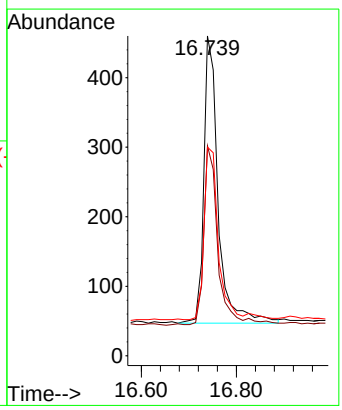
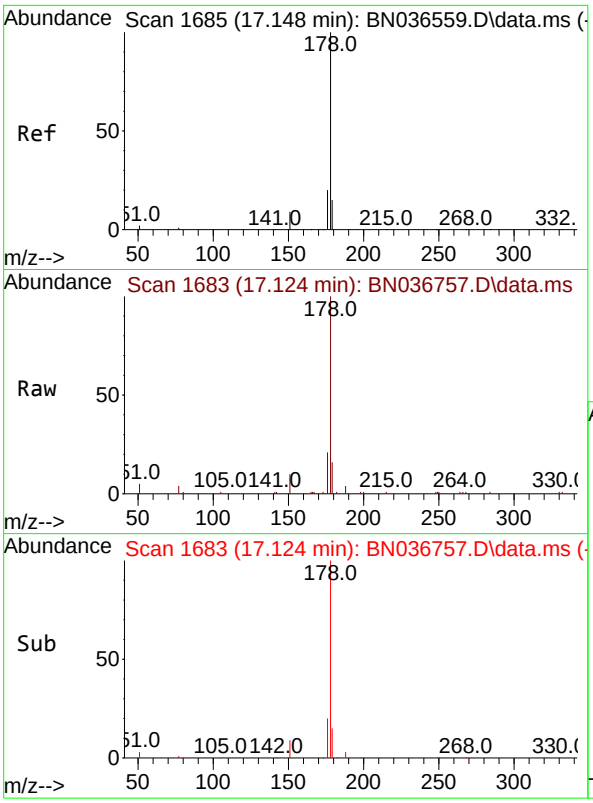


#24
Pentachlorophenol
Concen: 0.424 ng
RT: 16.739 min Scan# 1652
Delta R.T. -0.037 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:266 Resp: 868

Ion	Ratio	Lower	Upper
266	100		
264	62.2	49.6	74.4
268	59.4	50.9	76.3

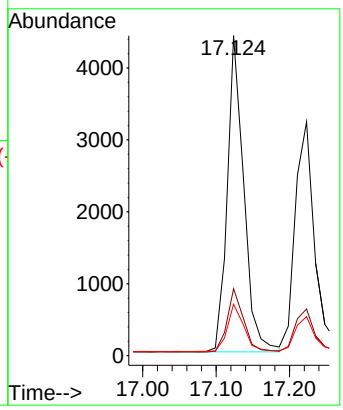




#25
Phenanthrene
Concen: 0.386 ng
RT: 17.124 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:178 Resp: 686(

Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.9	23.9
179	15.3	12.2	18.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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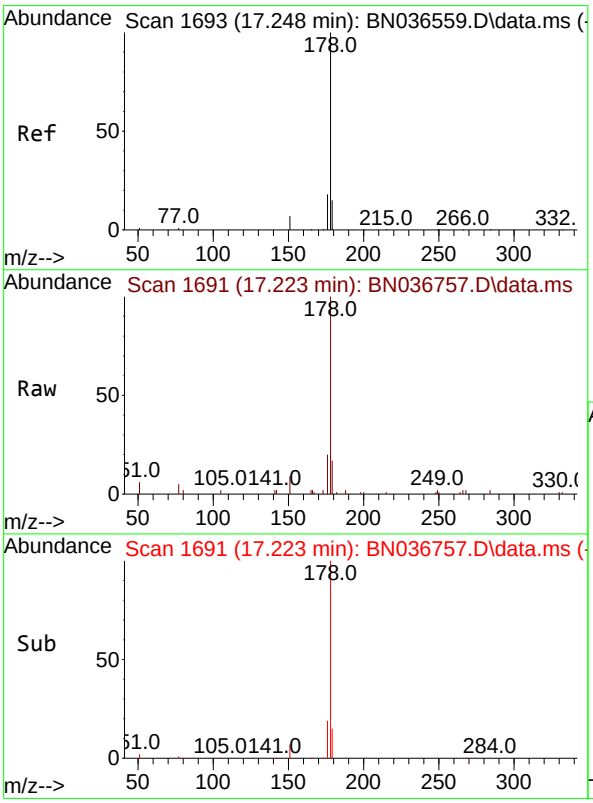
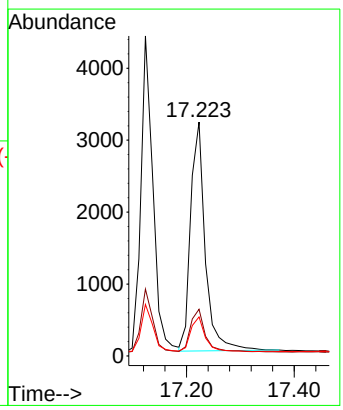
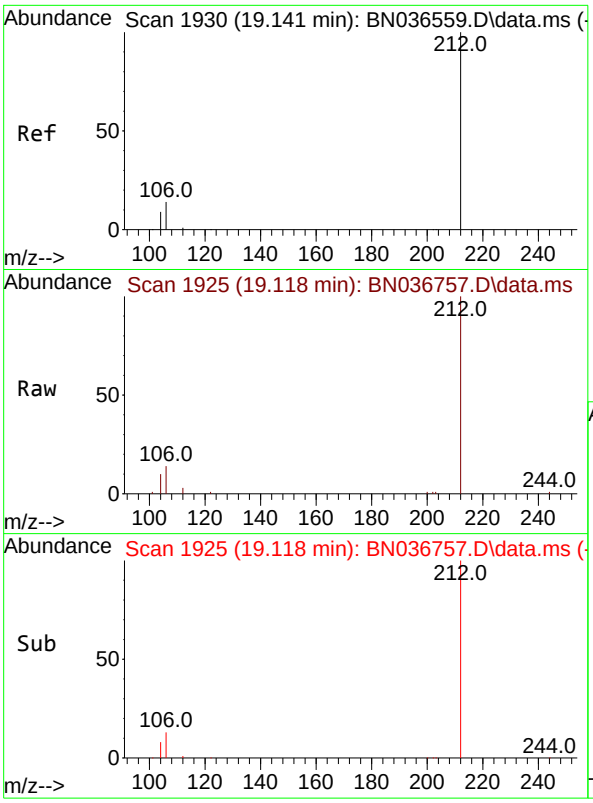


#26
Anthracene
Concen: 0.374 ng
RT: 17.223 min Scan# 1691
Delta R.T. -0.025 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:178 Resp: 6014

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.4	23.2
179	15.0	12.6	18.8

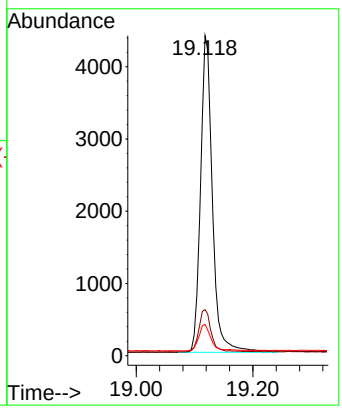




#27
Fluoranthene-d10
Concen: 0.411 ng
RT: 19.118 min Scan# 1
Delta R.T. -0.023 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:212 Resp: 625

Ion	Ratio	Lower	Upper
212	100		
106	13.6	11.8	17.6
104	8.6	7.3	10.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
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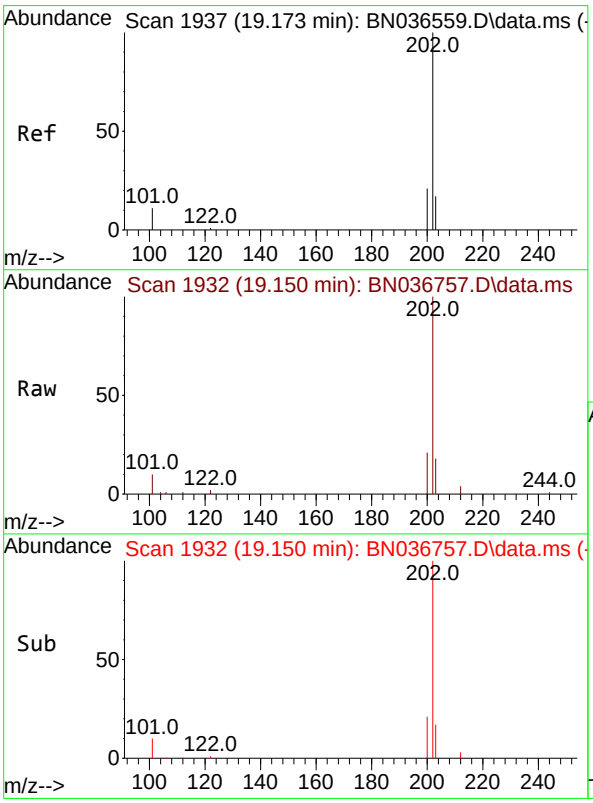
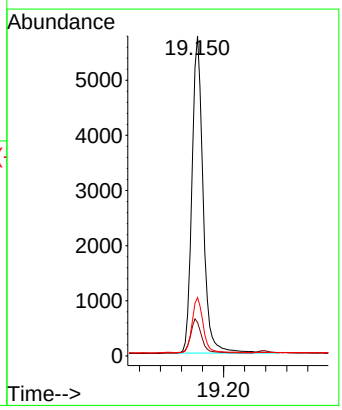
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

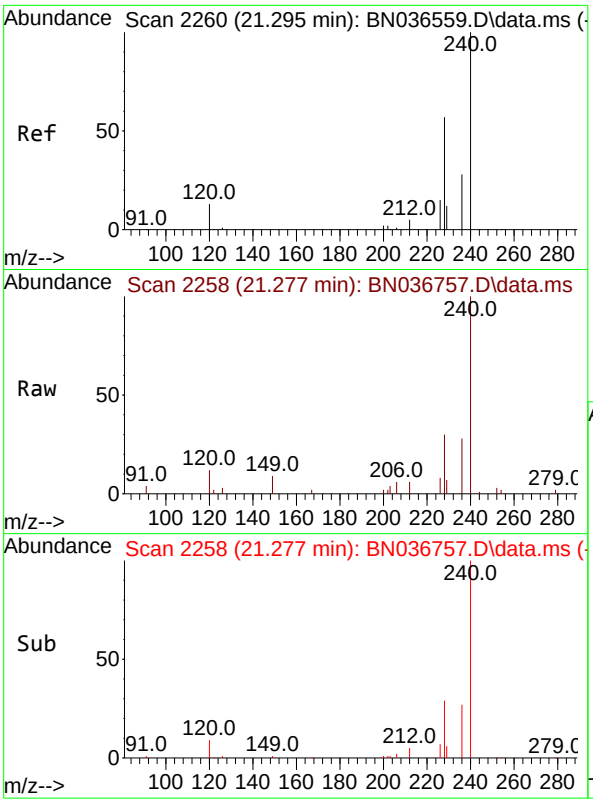


#28
Fluoranthene
Concen: 0.424 ng
RT: 19.150 min Scan# 1932
Delta R.T. -0.023 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:202 Resp: 8476

Ion	Ratio	Lower	Upper
202	100		
101	11.0	9.4	14.0
203	17.2	13.5	20.3

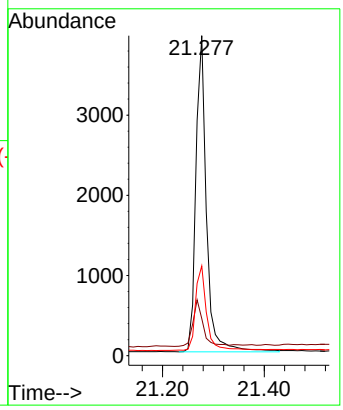




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:240 Resp: 568

Ion	Ratio	Lower	Upper
240	100		
120	11.6	14.6	22.0
236	28.0	24.1	36.1



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
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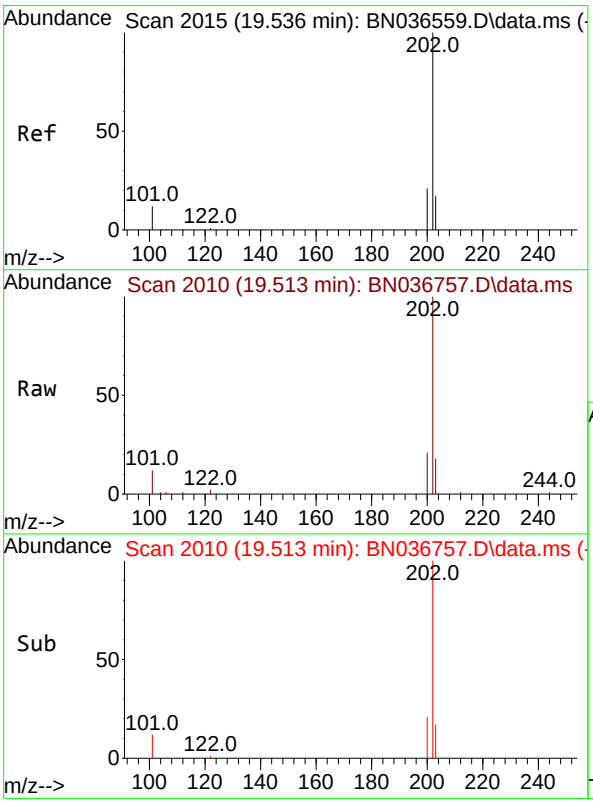
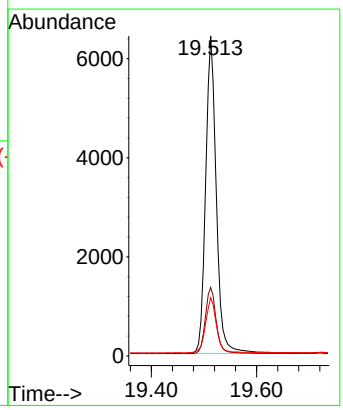
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

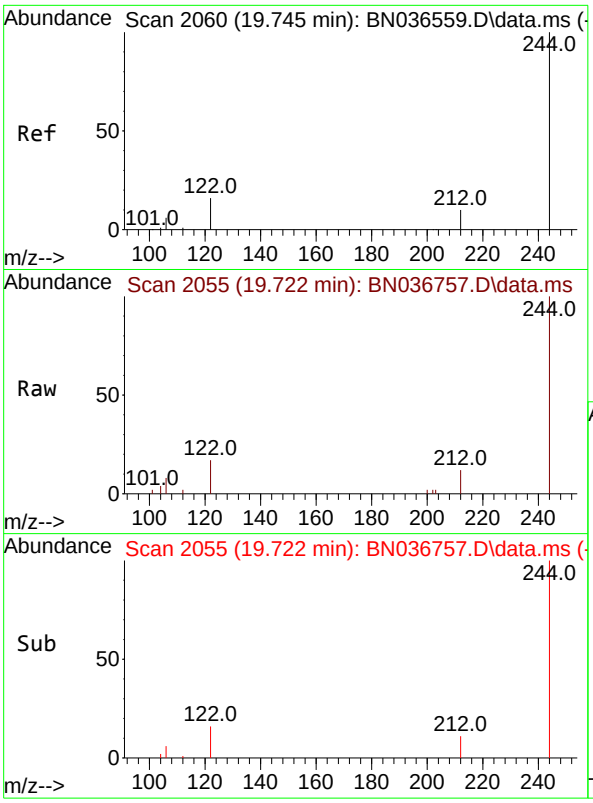


#30
Pyrene
Concen: 0.325 ng
RT: 19.513 min Scan# 2010
Delta R.T. -0.023 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:202 Resp: 9024

Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.1	25.7
203	17.5	14.1	21.1

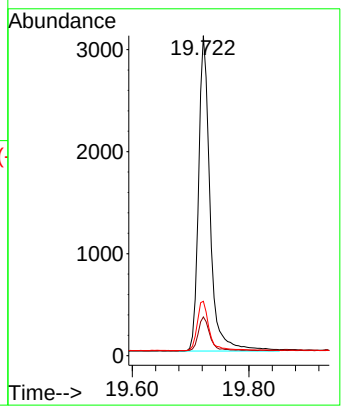




#31
Terphenyl-d14
Concen: 0.313 ng
RT: 19.722 min Scan# 2
Delta R.T. -0.023 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:244 Resp: 425

Ion	Ratio	Lower	Upper
244	100		
212	12.1	9.6	14.4
122	17.0	13.9	20.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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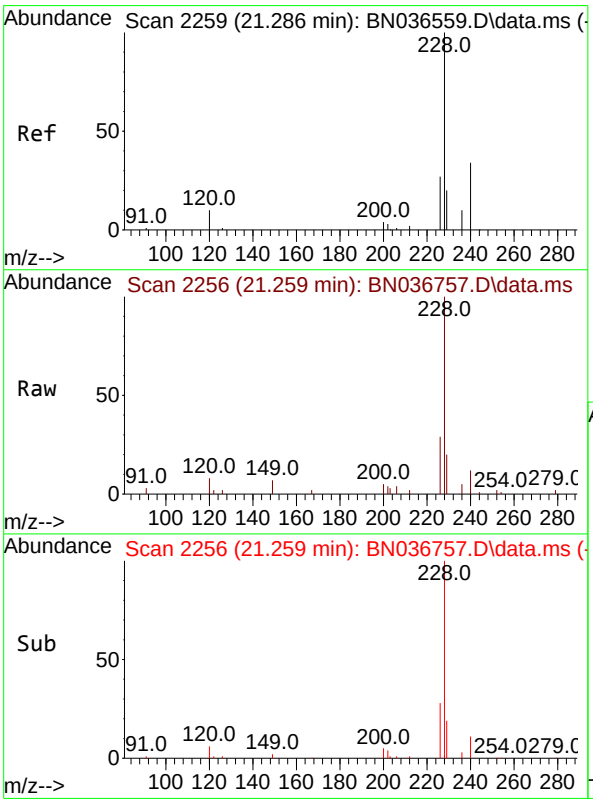
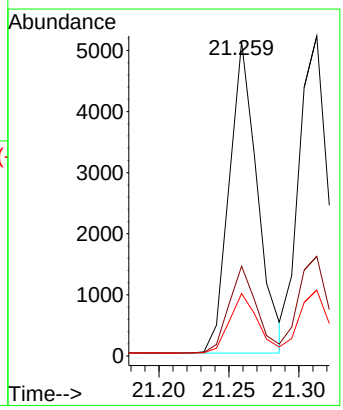
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

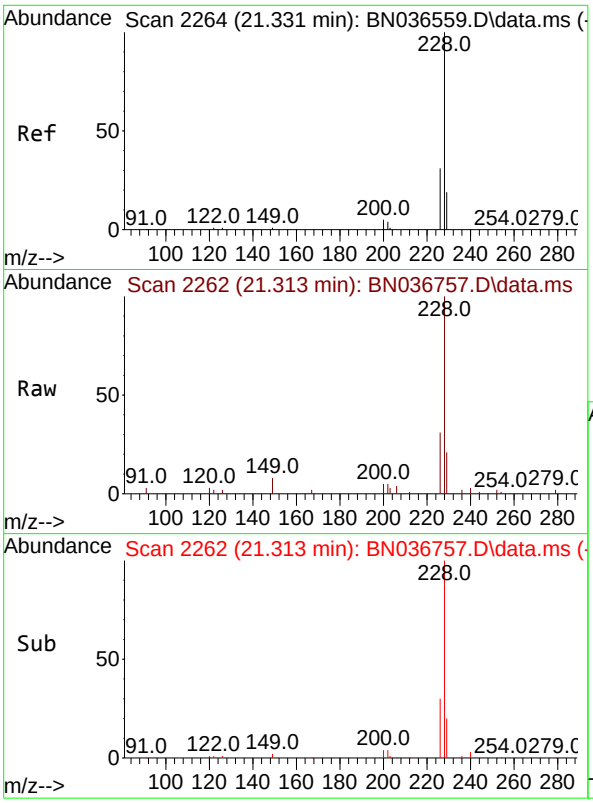


#32
Benzo(a)anthracene
Concen: 0.362 ng
RT: 21.259 min Scan# 2256
Delta R.T. -0.027 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:228 Resp: 7146

Ion	Ratio	Lower	Upper
228	100		
226	28.5	22.5	33.7
229	19.8	16.6	25.0





#33
Chrysene
Concen: 0.383 ng
RT: 21.313 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:228 Resp: 827

Ion	Ratio	Lower	Upper
228	100		
226	31.1	25.3	37.9
229	20.6	15.8	23.8

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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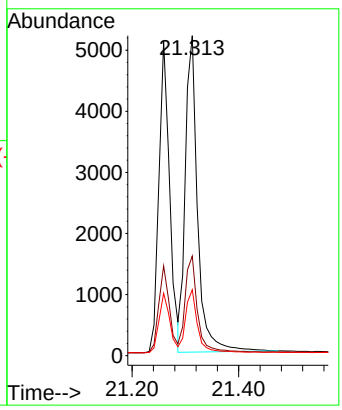
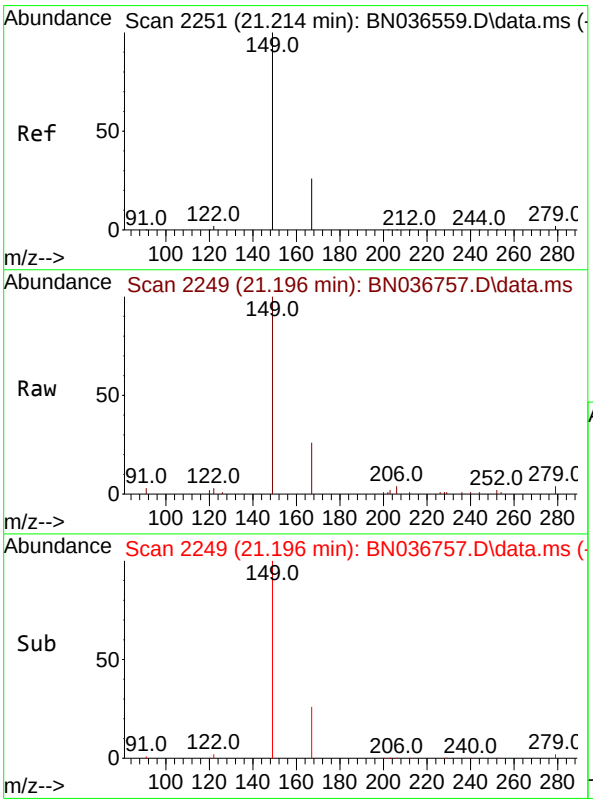
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

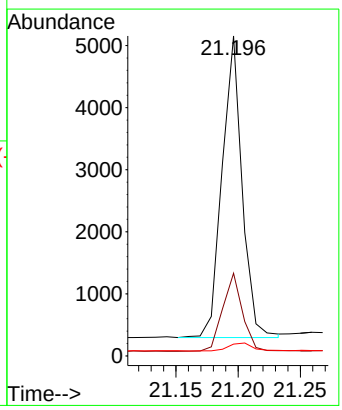


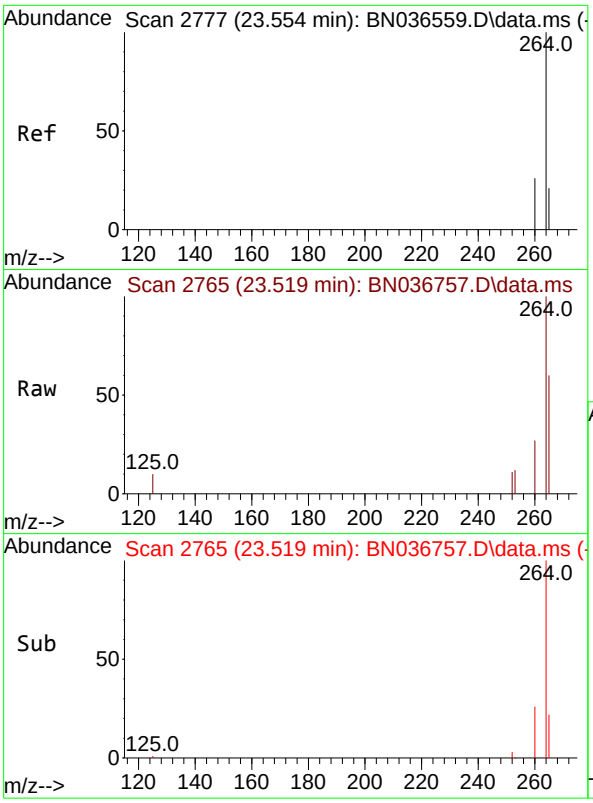


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.386 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:149 Resp: 5431

Ion	Ratio	Lower	Upper
149	100		
167	25.8	20.7	31.1
279	3.4	3.6	5.4#

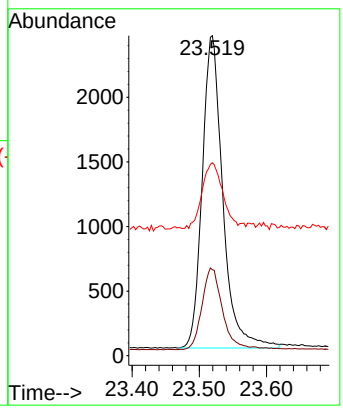




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.519 min Scan# 2
Delta R.T. -0.035 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:264 Resp: 514

Ion	Ratio	Lower	Upper
264	100		
260	26.8	22.6	33.8
265	60.3	88.1	132.1#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
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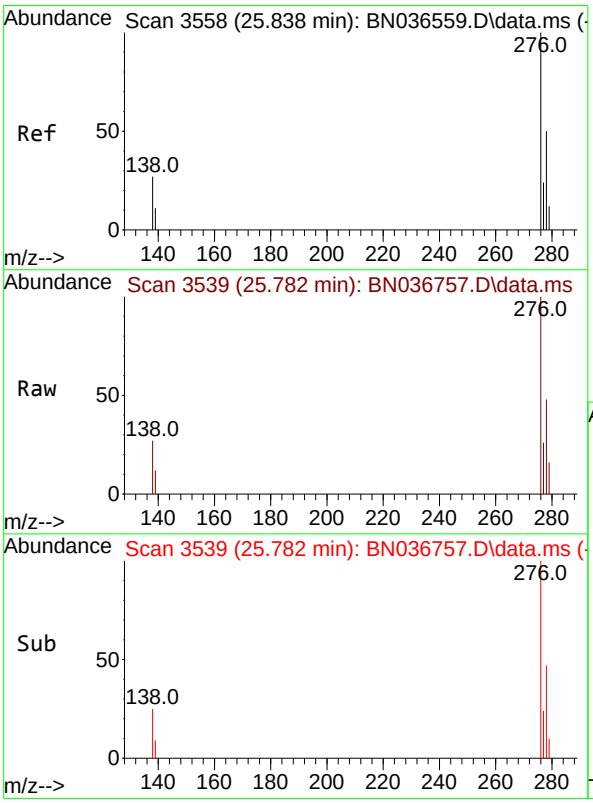
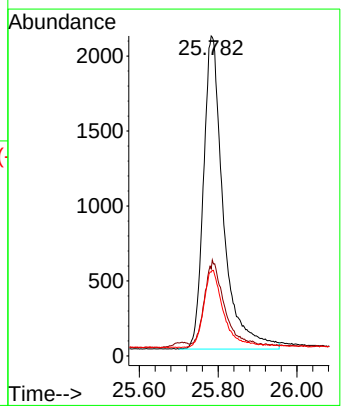
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

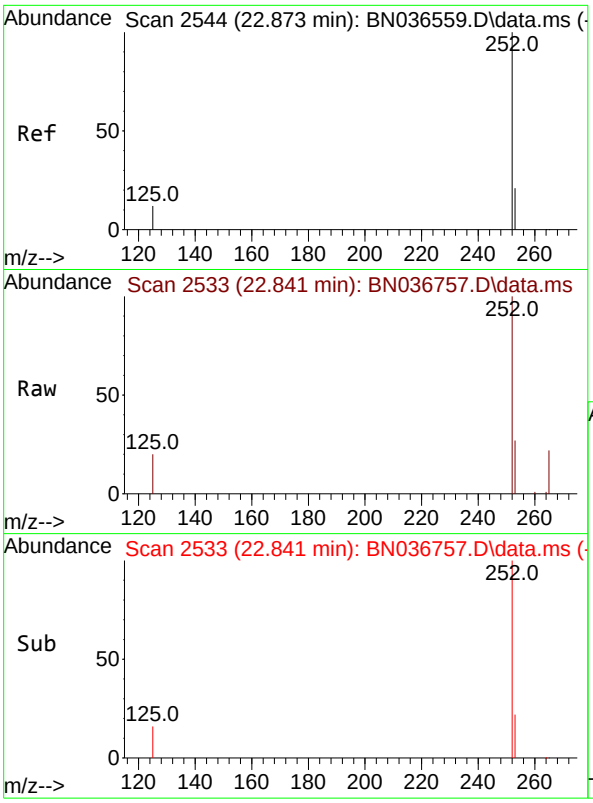


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.394 ng
RT: 25.782 min Scan# 3539
Delta R.T. -0.055 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:276 Resp: 7314

Ion	Ratio	Lower	Upper
276	100		
138	24.9	23.4	35.2
277	24.6	20.0	30.0

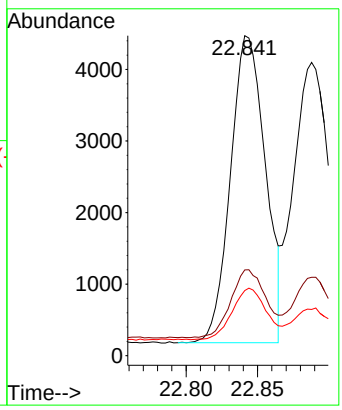




#37
Benzo(b)fluoranthene
Concen: 0.390 ng
RT: 22.841 min Scan# 2
Delta R.T. -0.032 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:252 Resp: 729

Ion	Ratio	Lower	Upper
252	100		
253	26.8	23.9	35.9
125	20.4	17.4	26.2



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
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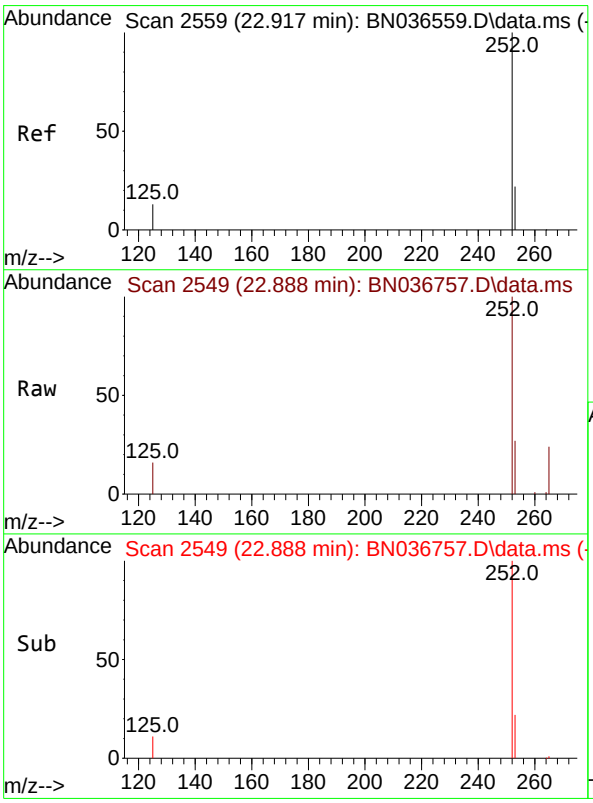
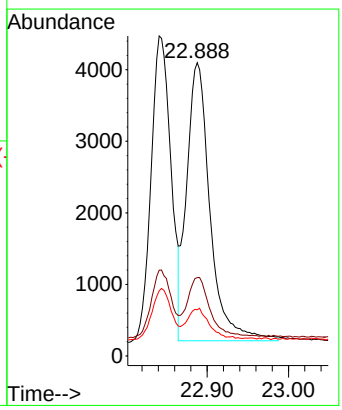
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

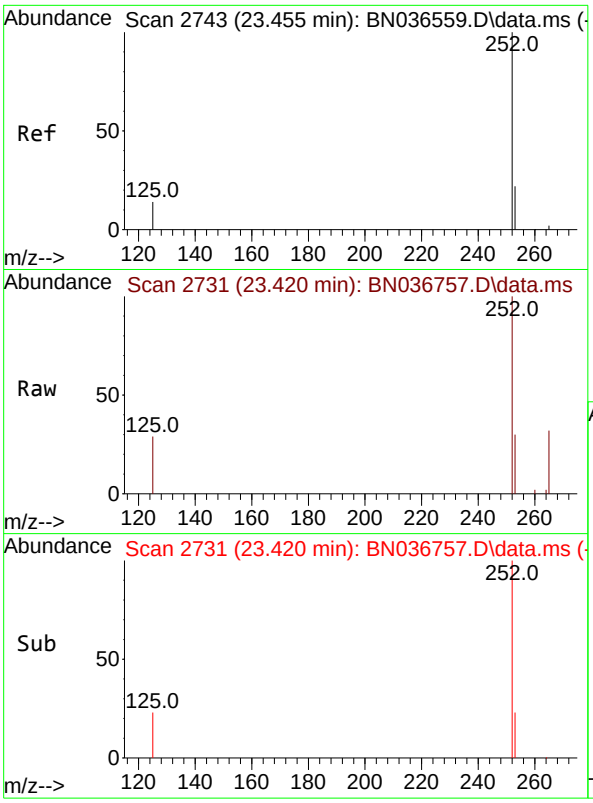


#38
Benzo(k)fluoranthene
Concen: 0.395 ng m
RT: 22.888 min Scan# 2549
Delta R.T. -0.029 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:252 Resp: 7751

Ion	Ratio	Lower	Upper
252	100		
253	26.7	24.6	36.8
125	15.8	17.8	26.8#

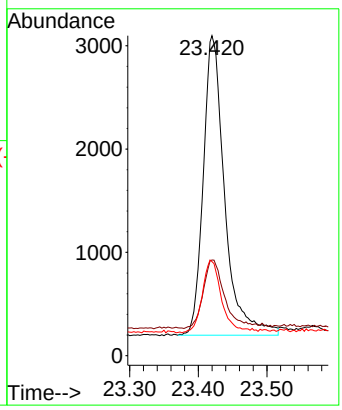




#39
Benzo(a)pyrene
Concen: 0.399 ng
RT: 23.420 min Scan# 2
Delta R.T. -0.035 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:252 Resp: 629

Ion	Ratio	Lower	Upper
252	100		
253	29.9	27.8	41.8
125	29.4	22.7	34.1



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
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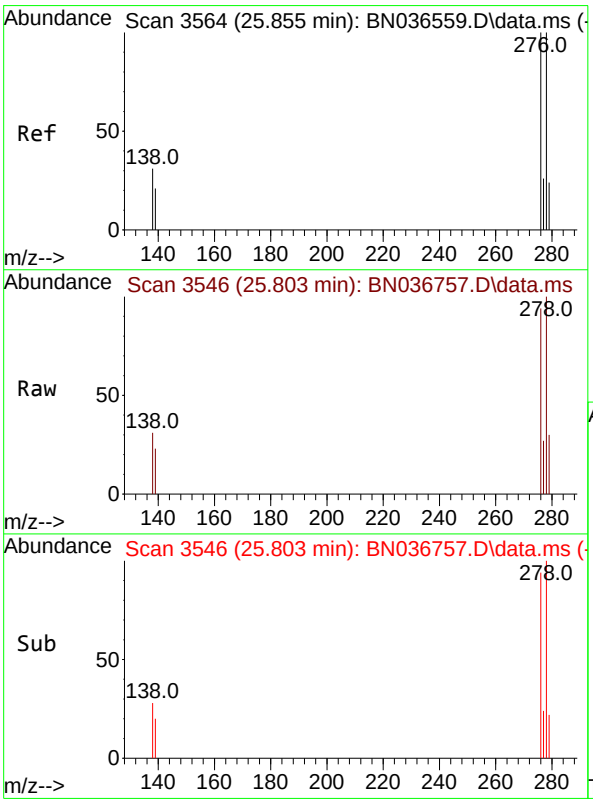
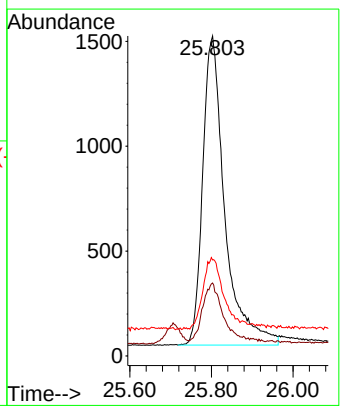
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

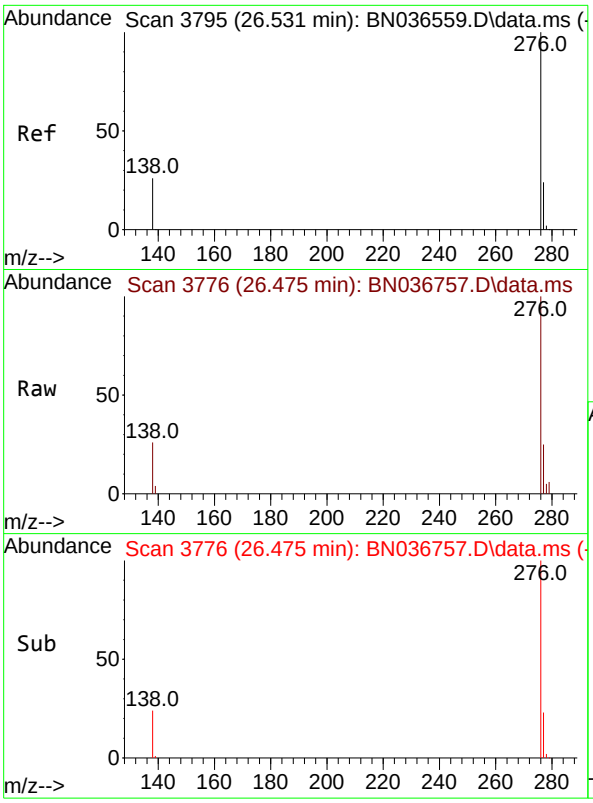


#40
Dibenzo(a,h)anthracene
Concen: 0.382 ng
RT: 25.803 min Scan# 3546
Delta R.T. -0.052 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:278 Resp: 5522

Ion	Ratio	Lower	Upper
278	100		
139	22.8	20.8	31.2
279	30.0	28.8	43.2

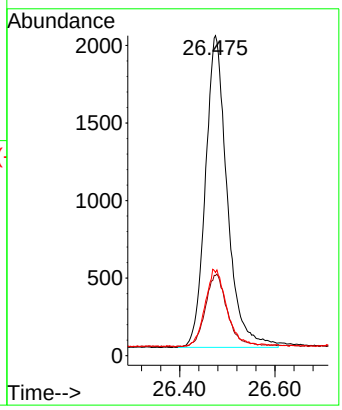




#41
Benzo(g,h,i)perylene
Concen: 0.386 ng
RT: 26.475 min Scan# 3
Delta R.T. -0.055 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:276 Resp: 637

Ion	Ratio	Lower	Upper
276	100		
277	25.1	22.2	33.4
138	26.0	24.1	36.1



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
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Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036757.D
Acq On : 28 Mar 2025 03:46
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Mar 28 05:36:56 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 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	89	-0.02
2		1,4-Dioxane	0.444	0.442	0.5	79	-0.01
3		n-Nitrosodimethylamine	0.898	0.879	2.1	84	-0.01
4	S	2-Fluorophenol	0.932	0.782	16.1	71	-0.02
5	S	Phenol-d6	1.152	0.986	14.4	78	-0.03
6		bis(2-Chloroethyl)ether	1.190	1.050	11.8	79	-0.03
7	I	Naphthalene-d8	1.000	1.000	0.0	90	-0.02
8	S	Nitrobenzene-d5	0.435	0.370	14.9	81	-0.02
9		Naphthalene	1.177	1.056	10.3	79	-0.03
10		Hexachlorobutadiene	0.277	0.247	10.8	76	-0.02
11	SURR	2-Methylnaphthalene-d10	0.595	0.509	14.5	76	-0.03
12		2-Methylnaphthalene	0.749	0.662	11.6	78	-0.03
13	I	Acenaphthene-d10	1.000	1.000	0.0	91	-0.03
14	S	2,4,6-Tribromophenol	0.182	0.184	-1.1	89	-0.02
15	S	2-Fluorobiphenyl	2.327	2.013	13.5	76	-0.03
16		Acenaphthylene	1.888	1.702	9.9	80	-0.02
17		Acenaphthene	1.236	1.136	8.1	81	-0.03
18		Fluorene	1.672	1.550	7.3	80	-0.02
19	I	Phenanthrene-d10	1.000	1.000	0.0	99	-0.02
20		4,6-Dinitro-2-methylphenol	0.086	0.080	7.0	102	-0.02
21		4-Bromophenyl-phenylether	0.251	0.233	7.2	84	-0.02
22		Hexachlorobenzene	0.303	0.276	8.9	81	-0.02
23		Atrazine	0.201	0.194	3.5	90	-0.02
24		Pentachlorophenol	0.138	0.146	-5.8	106	-0.04
25		Phenanthrene	1.200	1.156	3.7	88	-0.02
26		Anthracene	1.083	1.013	6.5	87	-0.02
27	SURR	Fluoranthene-d10	1.025	1.053	-2.7	93	-0.02
28		Fluoranthene	1.348	1.428	-5.9	97	-0.02
29	I	Chrysene-d12	1.000	1.000	0.0	138	-0.02
30		Pyrene	1.956	1.589	18.8	103	-0.02
31	S	Terphenyl-d14	0.958	0.749	21.8	101	-0.02
32		Benzo(a)anthracene	1.391	1.258	9.6	121	-0.03
33		Chrysene	1.520	1.456	4.2	125	-0.02
34		Bis(2-ethylhexyl)phthalate	0.990	0.956	3.4	127	-0.02
35	I	Perylene-d12	1.000	1.000	0.0	145	-0.03
36		Indeno(1,2,3-cd)pyrene	1.444	1.423	1.5	134	-0.06
37		Benzo(b)fluoranthene	1.456	1.419	2.5	133	-0.03
38		Benzo(k)fluoranthene	1.527	1.508	1.2	135	-0.03
39	C	Benzo(a)pyrene	1.226	1.224	0.2	136	-0.03
40		Dibenzo(a,h)anthracene	1.124	1.074	4.4	134	-0.05
41		Benzo(g,h,i)perylene	1.286	1.240	3.6	130	-0.06

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036757.D
Acq On : 28 Mar 2025 03:46
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Mar 28 05:36:56 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 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	89	-0.02
2		1,4-Dioxane	0.400	0.399	0.3	79	-0.01
3		n-Nitrosodimethylamine	0.400	0.392	2.0	84	-0.01
4	S	2-Fluorophenol	0.400	0.335	16.3	71	-0.02
5	S	Phenol-d6	0.400	0.343	14.2	78	-0.03
6		bis(2-Chloroethyl)ether	0.400	0.353	11.8	79	-0.03
7	I	Naphthalene-d8	0.400	0.400	0.0	90	-0.02
8	S	Nitrobenzene-d5	0.400	0.340	15.0	81	-0.02
9		Naphthalene	0.400	0.359	10.3	79	-0.03
10		Hexachlorobutadiene	0.400	0.357	10.8	76	-0.02
11	SURR	2-Methylnaphthalene-d10	0.400	0.342	14.5	76	-0.03
12		2-Methylnaphthalene	0.400	0.354	11.5	78	-0.03
13	I	Acenaphthene-d10	0.400	0.400	0.0	91	-0.03
14	S	2,4,6-Tribromophenol	0.400	0.406	-1.5	89	-0.02
15	S	2-Fluorobiphenyl	0.400	0.346	13.5	76	-0.03
16		Acenaphthylene	0.400	0.361	9.8	80	-0.02
17		Acenaphthene	0.400	0.368	8.0	81	-0.03
18		Fluorene	0.400	0.371	7.3	80	-0.02
19	I	Phenanthrene-d10	0.400	0.400	0.0	99	-0.02
20		4,6-Dinitro-2-methylphenol	0.400	0.457	-14.2	102	-0.02
21		4-Bromophenyl-phenylether	0.400	0.372	7.0	84	-0.02
22		Hexachlorobenzene	0.400	0.364	9.0	81	-0.02
23		Atrazine	0.400	0.387	3.3	90	-0.02
24		Pentachlorophenol	0.400	0.424	-6.0	106	-0.04
25		Phenanthrene	0.400	0.386	3.5	88	-0.02
26		Anthracene	0.400	0.374	6.5	87	-0.02
27	SURR	Fluoranthene-d10	0.400	0.411	-2.7	93	-0.02
28		Fluoranthene	0.400	0.424	-6.0	97	-0.02
29	I	Chrysene-d12	0.400	0.400	0.0	138	-0.02
30		Pyrene	0.400	0.325	18.8	103	-0.02
31	S	Terphenyl-d14	0.400	0.313	21.8	101	-0.02
32		Benzo(a)anthracene	0.400	0.362	9.5	121	-0.03
33		Chrysene	0.400	0.383	4.3	125	-0.02
34		Bis(2-ethylhexyl)phthalate	0.400	0.386	3.5	127	-0.02
35	I	Perylene-d12	0.400	0.400	0.0	145	-0.03
36		Indeno(1,2,3-cd)pyrene	0.400	0.394	1.5	134	-0.06
37		Benzo(b)fluoranthene	0.400	0.390	2.5	133	-0.03
38		Benzo(k)fluoranthene	0.400	0.395	1.3	135	-0.03
39	C	Benzo(a)pyrene	0.400	0.399	0.3	136	-0.03
40		Dibenzo(a,h)anthracene	0.400	0.382	4.5	134	-0.05
41		Benzo(g,h,i)perylene	0.400	0.386	3.5	130	-0.06

(#) = 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: TETR06

Lab Code: CHEM Case No.: Q1621 SAS No.: Q1621 SDG No.: Q1621

Instrument ID: BNA_N Calibration Date/Time: 03/28/2025 13:58

Lab File ID: BN036771.D Init. Calib. Date(s): 03/10/2025 03/10/2025

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 11:42 15:19

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.595	0.540		-9.2	50.0
Fluoranthene-d10	1.025	1.012		-1.3	50.0
2-Fluorophenol	0.932	0.846		-9.2	50.0
Phenol-d6	1.152	1.010		-12.3	50.0
Nitrobenzene-d5	0.435	0.354		-18.6	50.0
2-Fluorobiphenyl	2.327	2.021		-13.1	50.0
2,4,6-Tribromophenol	0.182	0.177		-2.7	50.0
Terphenyl-d14	0.958	0.816		-14.8	50.0
1,4-Dioxane	0.444	0.460		3.6	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036771.D
Acq On : 28 Mar 2025 13:58
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 28 14:23:03 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.695	152	1636	0.400	ng		-0.03
7) Naphthalene-d8	10.487	136	4177	0.400	ng		#-0.02
13) Acenaphthene-d10	14.334	164	2615	0.400	ng		-0.03
19) Phenanthrene-d10	17.086	188	5571	0.400	ng		-0.02
29) Chrysene-d12	21.277	240	4555	0.400	ng		#-0.02
35) Perylene-d12	23.516	264	4167	0.400	ng		#-0.04
System Monitoring Compounds							
4) 2-Fluorophenol	5.290	112	1384	0.363	ng		-0.02
5) Phenol-d6	6.872	99	1653	0.351	ng		-0.03
8) Nitrobenzene-d5	8.854	82	1480	0.326	ng		-0.02
11) 2-Methylnaphthalene-d10	12.080	152	2256	0.363	ng		-0.03
14) 2,4,6-Tribromophenol	15.833	330	464	0.391	ng		-0.02
15) 2-Fluorobiphenyl	12.963	172	5285	0.347	ng		-0.03
27) Fluoranthene-d10	19.118	212	5637	0.395	ng		-0.02
31) Terphenyl-d14	19.722	244	3716	0.341	ng		-0.02
Target Compounds							Qvalue
2) 1,4-Dioxane	3.225	88	752	0.414	ng		97
3) n-Nitrosodimethylamine	3.535	42	1423	0.388	ng		97
6) bis(2-Chloroethyl)ether	7.125	93	1671	0.343	ng		98
9) Naphthalene	10.530	128	4359	0.355	ng		98
10) Hexachlorobutadiene	10.818	225	1044	0.361	ng	#	99
12) 2-Methylnaphthalene	12.156	142	2874	0.368	ng		98
16) Acenaphthylene	14.056	152	4358	0.353	ng		99
17) Acenaphthene	14.398	154	2946	0.365	ng		100
18) Fluorene	15.393	166	4111	0.376	ng		98
20) 4,6-Dinitro-2-methylph...	15.478	198	428	0.446	ng		87
21) 4-Bromophenyl-phenylether	16.280	248	1300	0.372	ng		96
22) Hexachlorobenzene	16.391	284	1537	0.365	ng		96
23) Atrazine	16.553	200	1063	0.380	ng		97
24) Pentachlorophenol	16.739	266	702	0.365	ng		95
25) Phenanthrene	17.124	178	6367	0.381	ng		99
26) Anthracene	17.223	178	5569	0.369	ng		100
28) Fluoranthene	19.150	202	7617	0.406	ng		99
30) Pyrene	19.513	202	7795	0.350	ng		99
32) Benzo(a)anthracene	21.259	228	5566	0.351	ng		99
33) Chrysene	21.313	228	6726	0.389	ng		99
34) Bis(2-ethylhexyl)phtha...	21.196	149	3968	0.352	ng	#	99
36) Indeno(1,2,3-cd)pyrene	25.782	276	5233	0.348	ng		96
37) Benzo(b)fluoranthene	22.844	252	5720	0.377	ng		97
38) Benzo(k)fluoranthene	22.888	252	5791m	0.364	ng		
39) Benzo(a)pyrene	23.420	252	4867	0.381	ng		96
40) Dibenzo(a,h)anthracene	25.800	278	3914	0.334	ng		96
41) Benzo(g,h,i)perylene	26.475	276	4758	0.355	ng		95

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

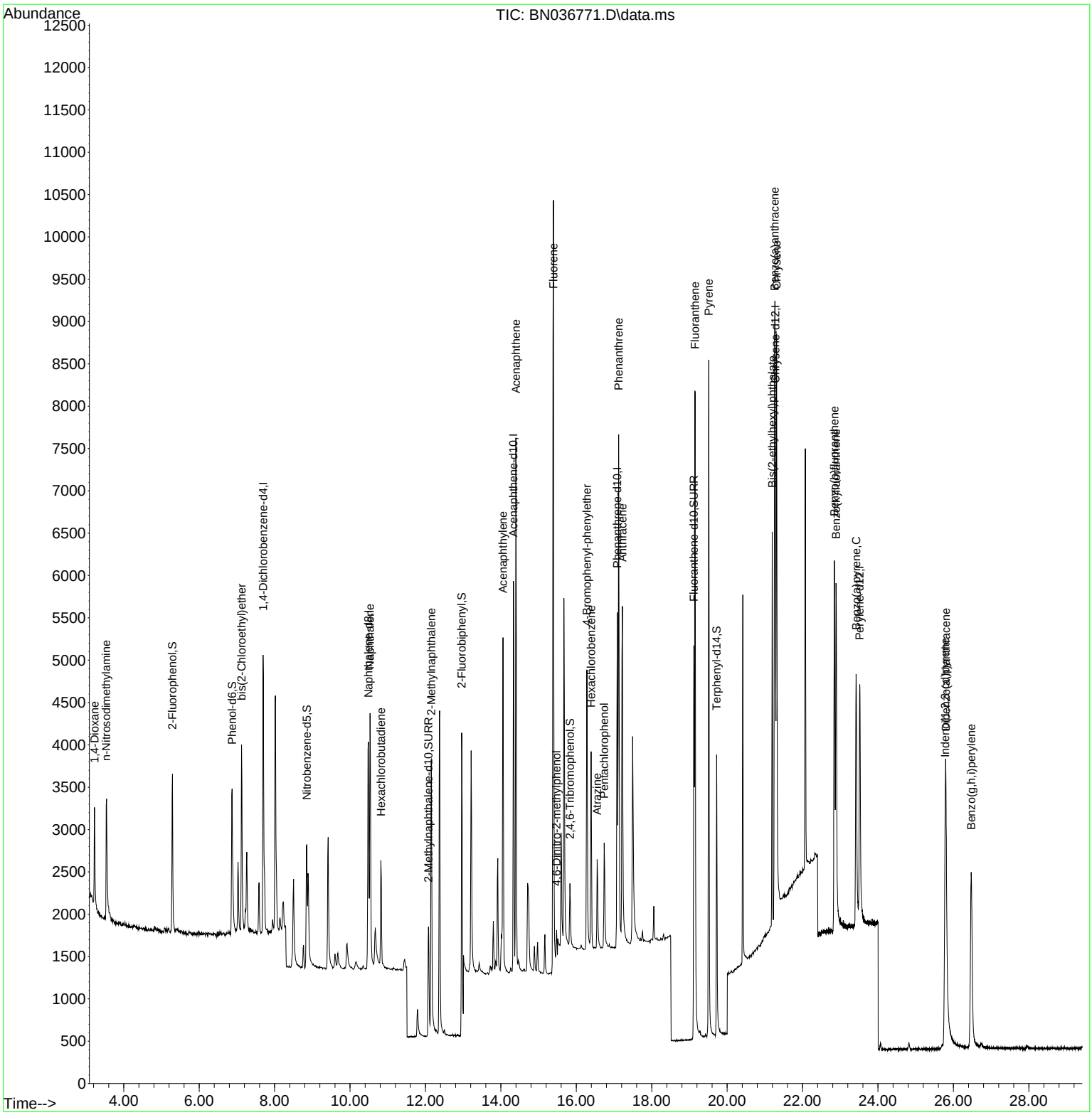
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036771.D
Acq On : 28 Mar 2025 13:58
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

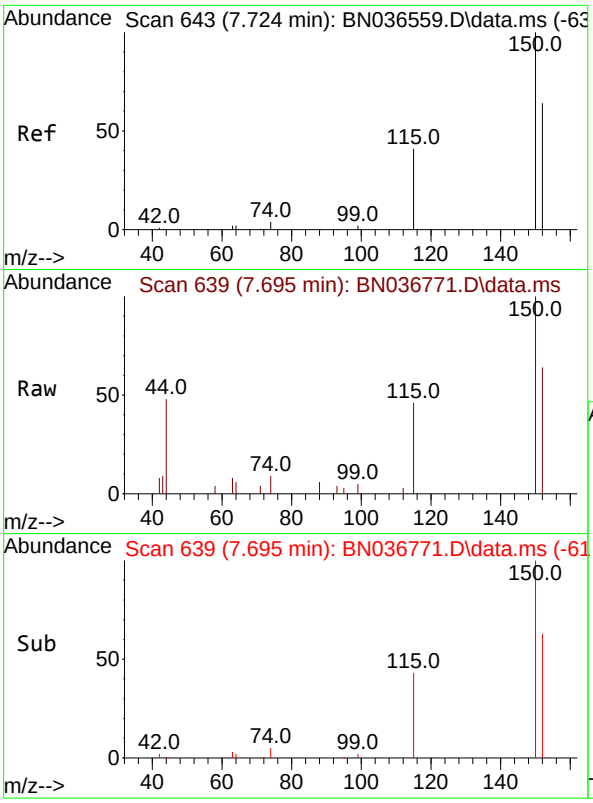
Quant Time: Mar 28 14:23:03 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

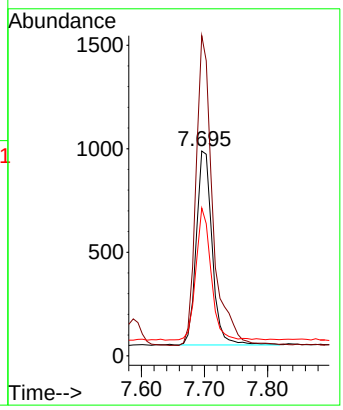




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.695 min Scan# 6
Delta R.T. -0.029 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:152 Resp: 163

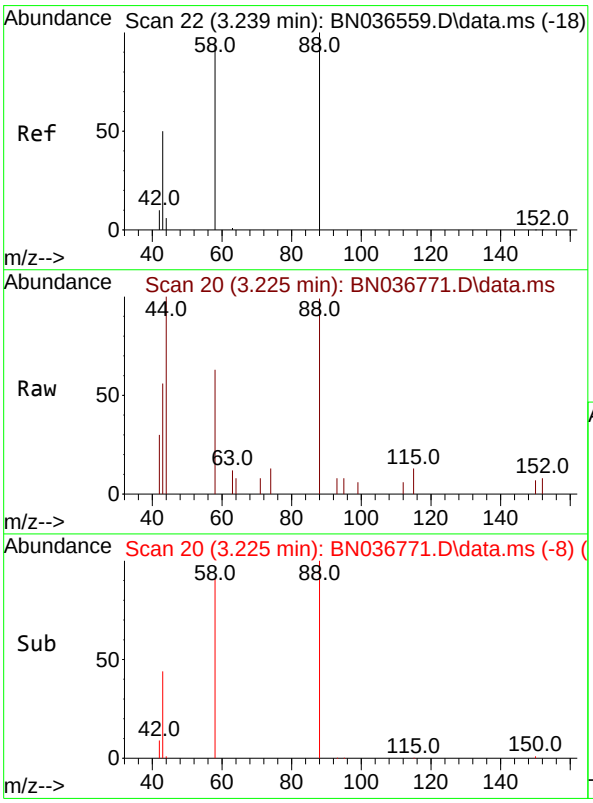
Ion	Ratio	Lower	Upper
152	100		
150	156.3	123.7	185.5
115	72.2	54.3	81.5



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

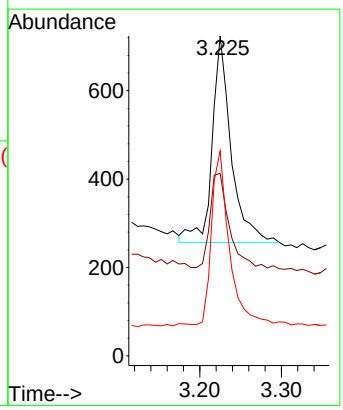
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

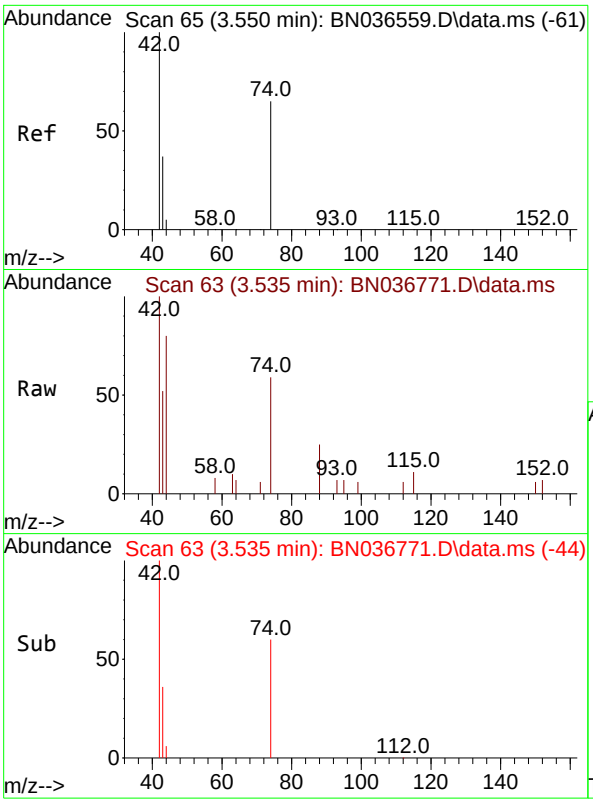


#2
1,4-Dioxane
Concen: 0.414 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion: 88 Resp: 752

Ion	Ratio	Lower	Upper
88	100		
43	47.5	37.8	56.8
58	80.9	67.4	101.2

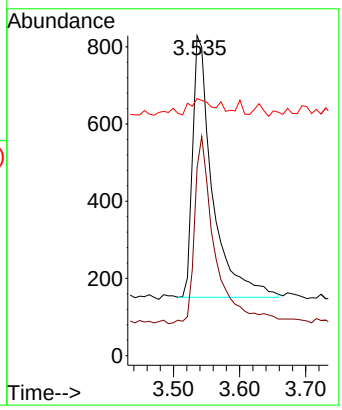




#3
n-Nitrosodimethylamine
Concen: 0.388 ng
RT: 3.535 min Scan# 6
Delta R.T. -0.014 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion: 42 Resp: 142

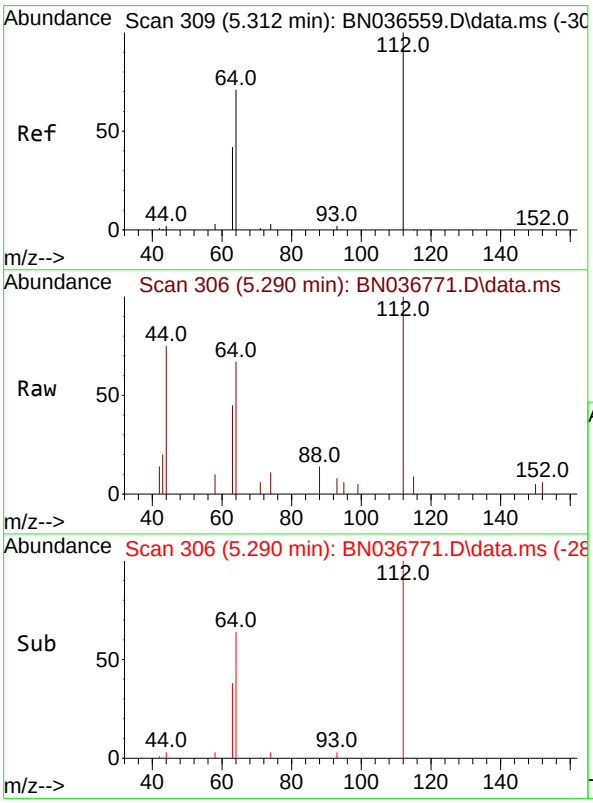
Ion	Ratio	Lower	Upper
42	100		
74	72.9	60.6	90.8
44	6.7	6.3	9.5



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations APPROVED

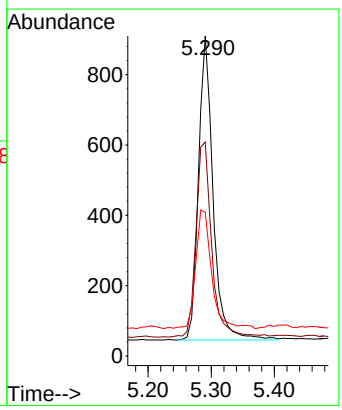
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

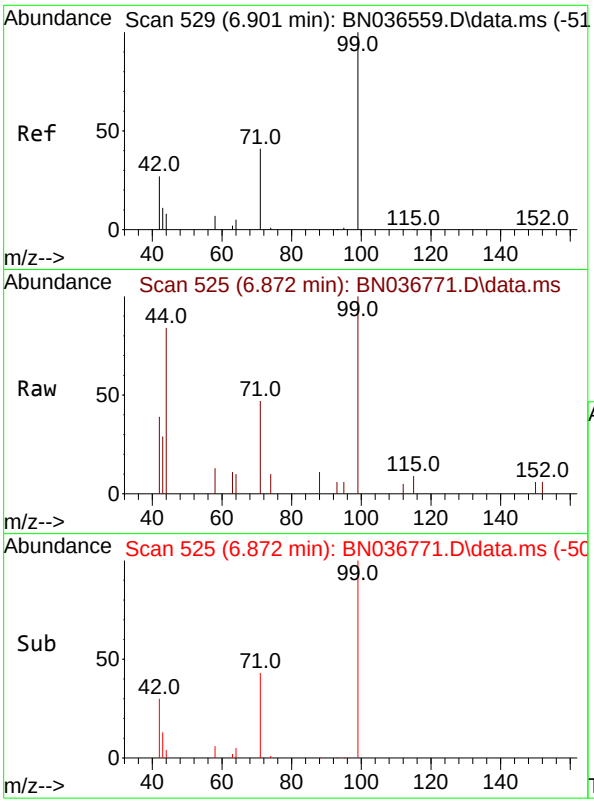


#4
2-Fluorophenol
Concen: 0.363 ng
RT: 5.290 min Scan# 306
Delta R.T. -0.022 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:112 Resp: 1384

Ion	Ratio	Lower	Upper
112	100		
64	69.4	53.1	79.7
63	42.8	31.8	47.8

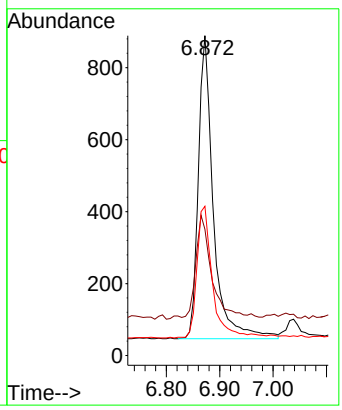




#5
Phenol-d6
Concen: 0.351 ng
RT: 6.872 min Scan# 5
Delta R.T. -0.029 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion: 99 Resp: 165

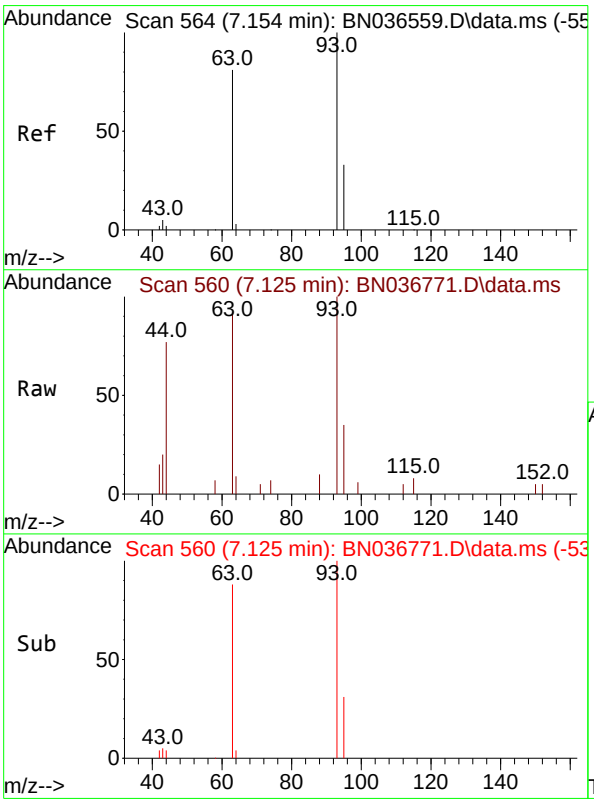
Ion	Ratio	Lower	Upper
99	100		
42	37.9	26.5	39.7
71	45.1	34.1	51.1



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

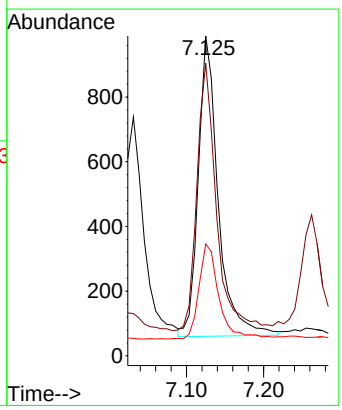
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

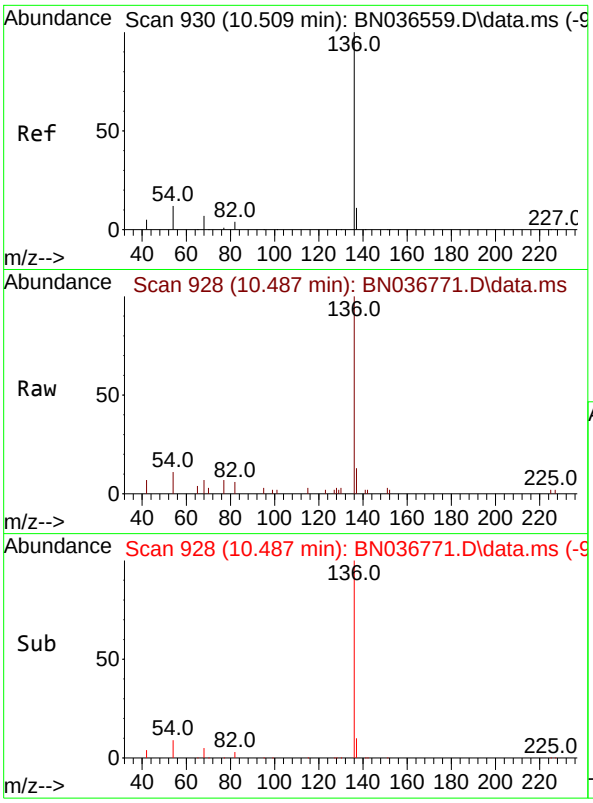


#6
bis(2-Chloroethyl)ether
Concen: 0.343 ng
RT: 7.125 min Scan# 560
Delta R.T. -0.029 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion: 93 Resp: 1671

Ion	Ratio	Lower	Upper
93	100		
63	87.3	67.7	101.5
95	31.8	25.6	38.4

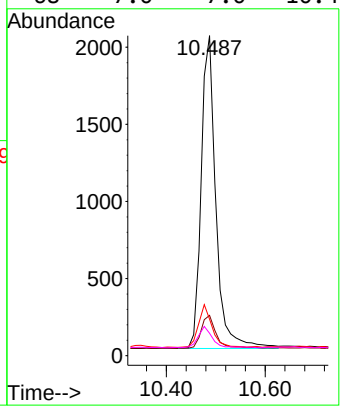




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.487 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:136 Resp: 417

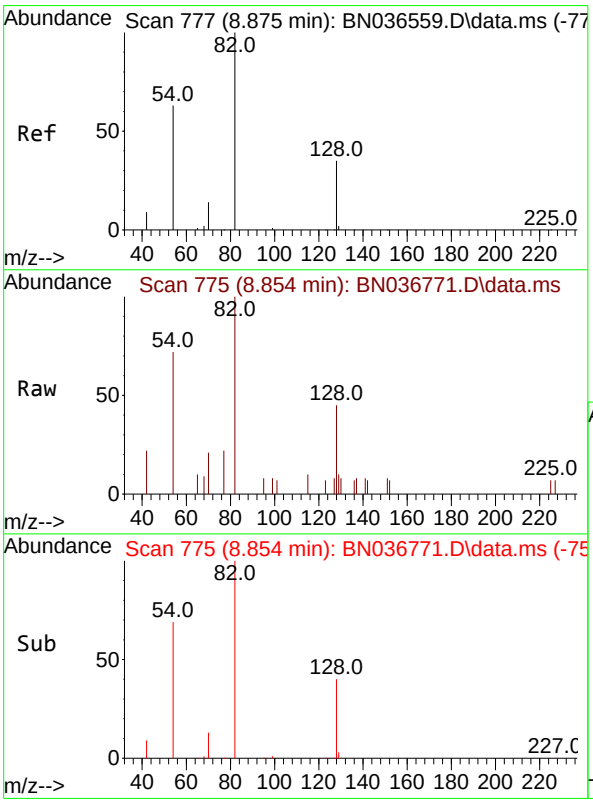
Ion	Ratio	Lower	Upper
136	100		
137	12.6	10.3	15.5
54	11.4	11.5	17.3#
68	7.0	7.0	10.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

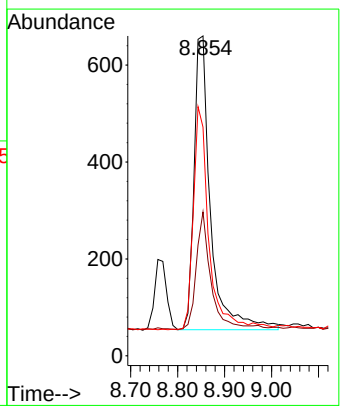
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

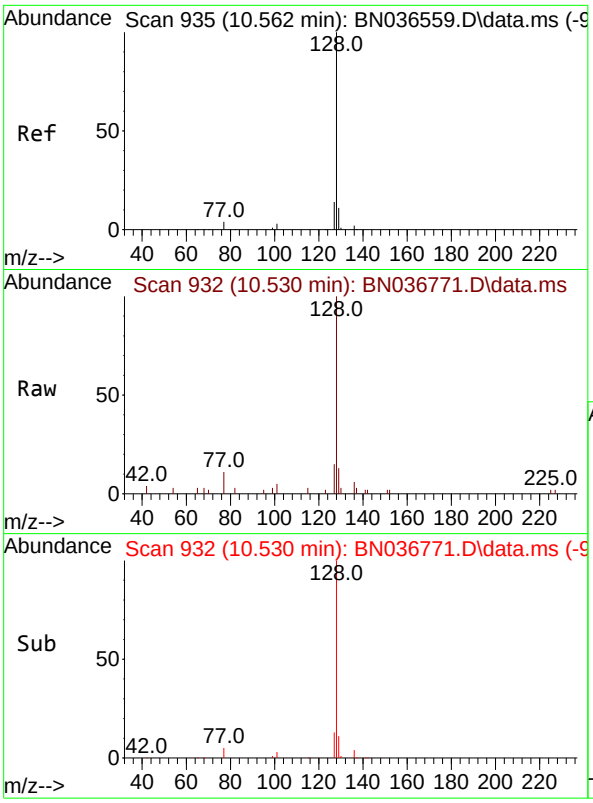


#8
Nitrobenzene-d5
Concen: 0.326 ng
RT: 8.854 min Scan# 775
Delta R.T. -0.021 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion: 82 Resp: 1480

Ion	Ratio	Lower	Upper
82	100		
128	45.0	30.6	45.8
54	71.5	52.2	78.4

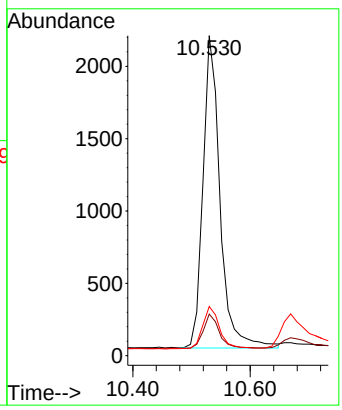




#9
Naphthalene
Concen: 0.355 ng
RT: 10.530 min Scan# 9
Delta R.T. -0.032 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:128 Resp: 435

Ion	Ratio	Lower	Upper
128	100		
129	13.0	9.8	14.6
127	15.4	11.8	17.8



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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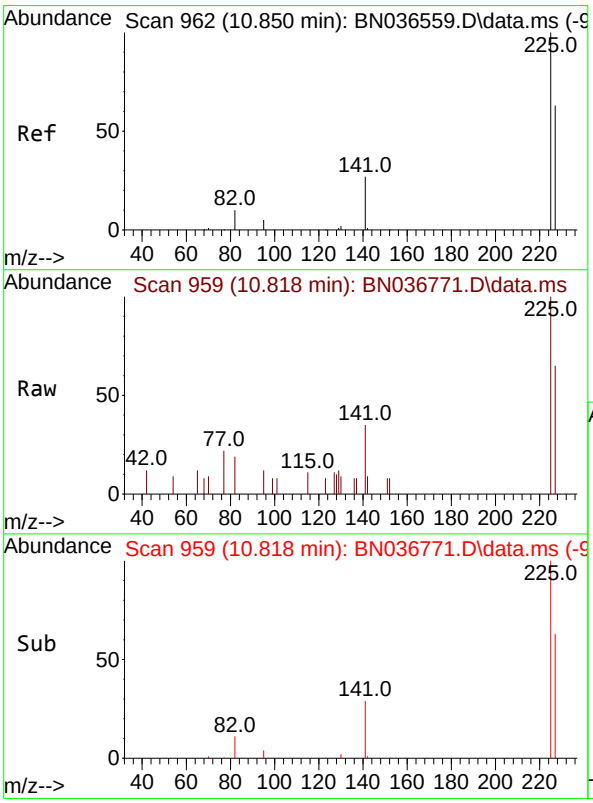
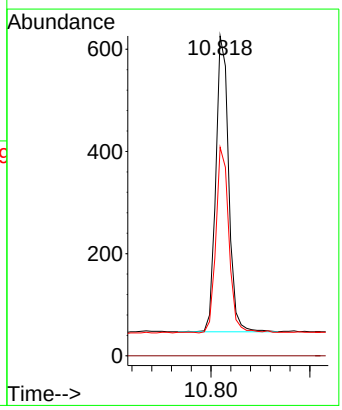
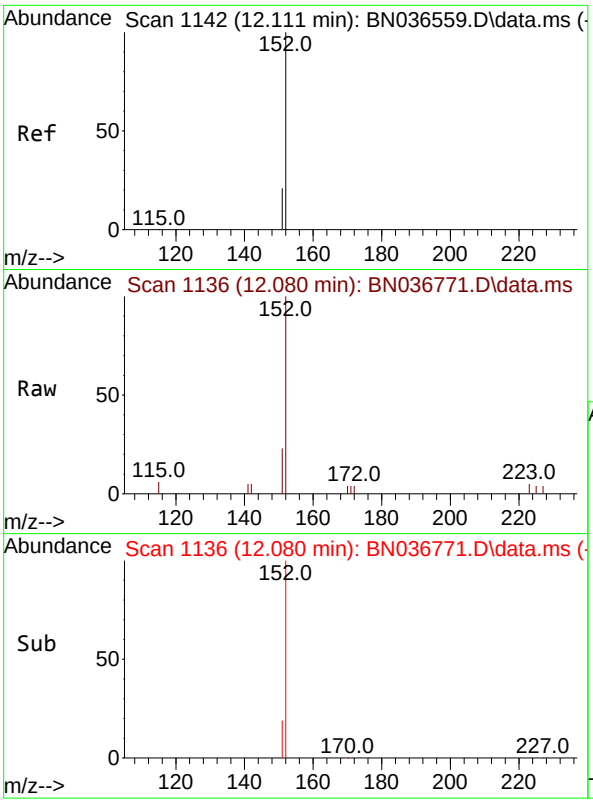


#10
Hexachlorobutadiene
Concen: 0.361 ng
RT: 10.818 min Scan# 959
Delta R.T. -0.032 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:225 Resp: 1044

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.8	51.8	77.8

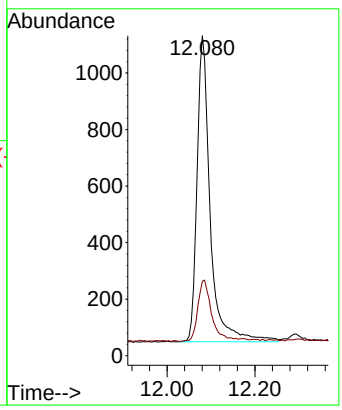




#11
2-Methylnaphthalene-d10
Concen: 0.363 ng
RT: 12.080 min Scan# 11
Delta R.T. -0.030 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:152 Resp: 225

Ion	Ratio	Lower	Upper
152	100		
151	21.0	17.0	25.6



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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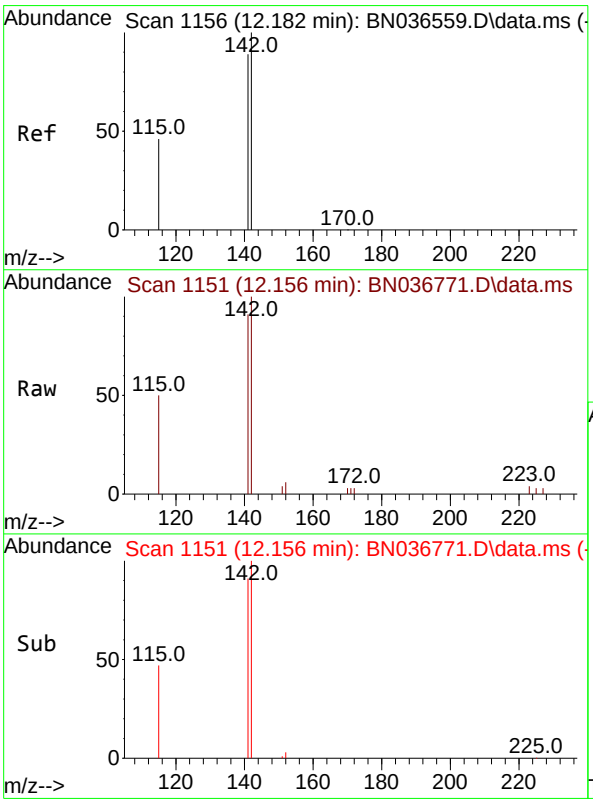
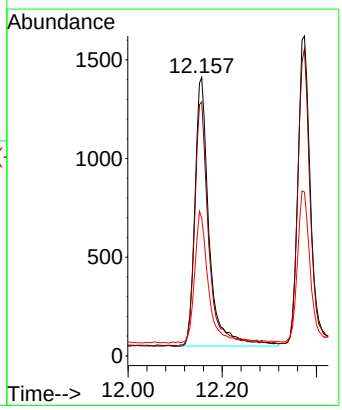
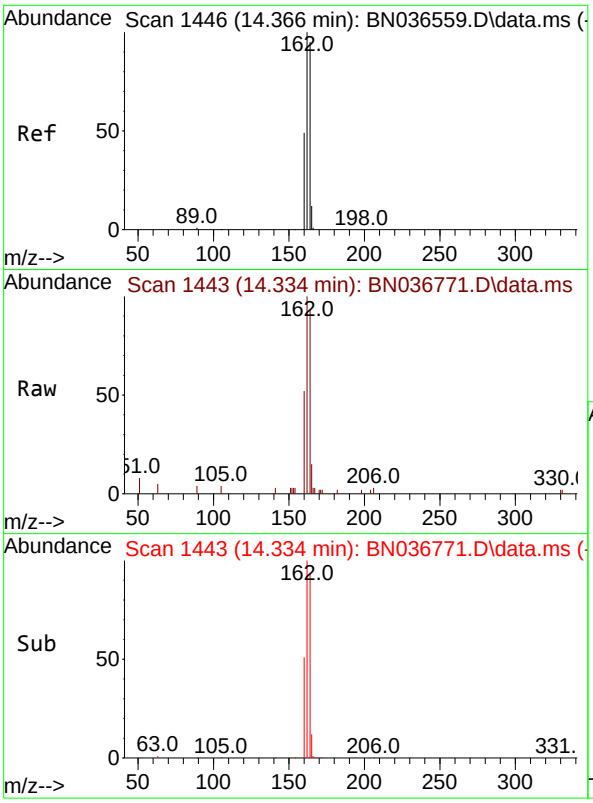


#12
2-Methylnaphthalene
Concen: 0.368 ng
RT: 12.156 min Scan# 1151
Delta R.T. -0.025 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:142 Resp: 2874

Ion	Ratio	Lower	Upper
142	100		
141	91.2	71.7	107.5
115	49.5	38.3	57.5

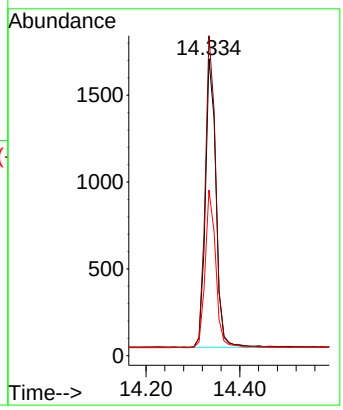




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:164 Resp: 261

Ion	Ratio	Lower	Upper
164	100		
162	107.8	84.2	126.2
160	55.8	42.2	63.2



Instrument :
BNA_N
ClientSampleId :
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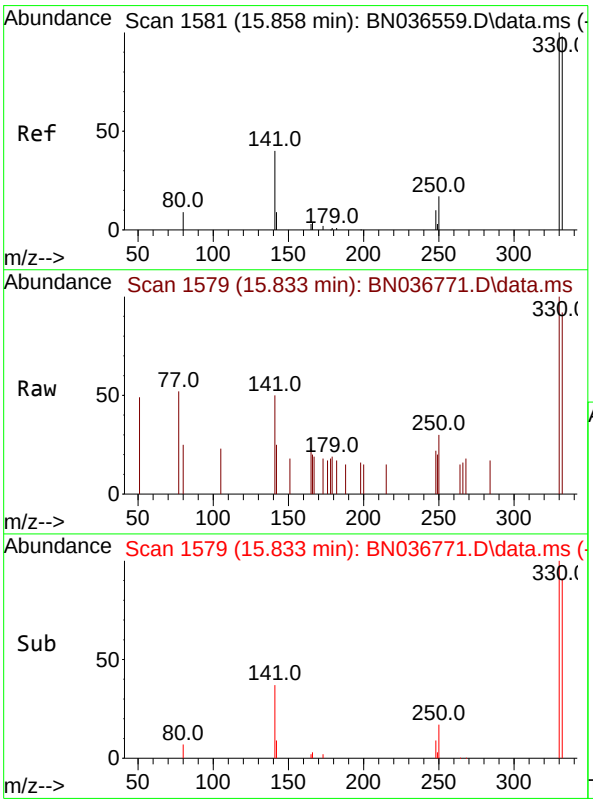
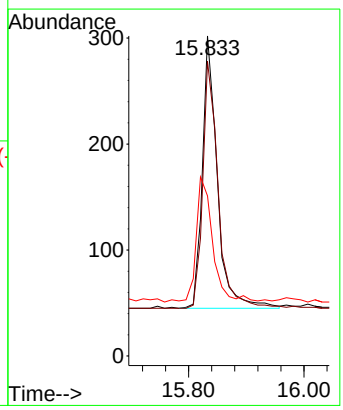
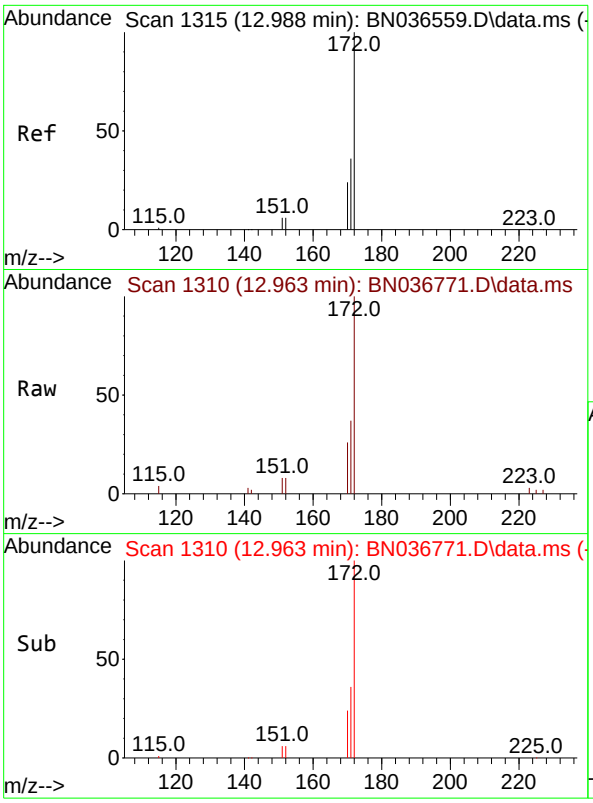


#14
2,4,6-Tribromophenol
Concen: 0.391 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.025 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:330 Resp: 464

Ion	Ratio	Lower	Upper
330	100		
332	93.3	75.2	112.8
141	49.1	43.4	65.2

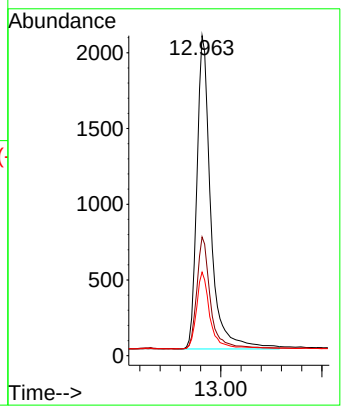




#15
2-Fluorobiphenyl
Concen: 0.347 ng
RT: 12.963 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:172 Resp: 528

Ion	Ratio	Lower	Upper
172	100		
171	37.1	29.5	44.3
170	26.1	20.2	30.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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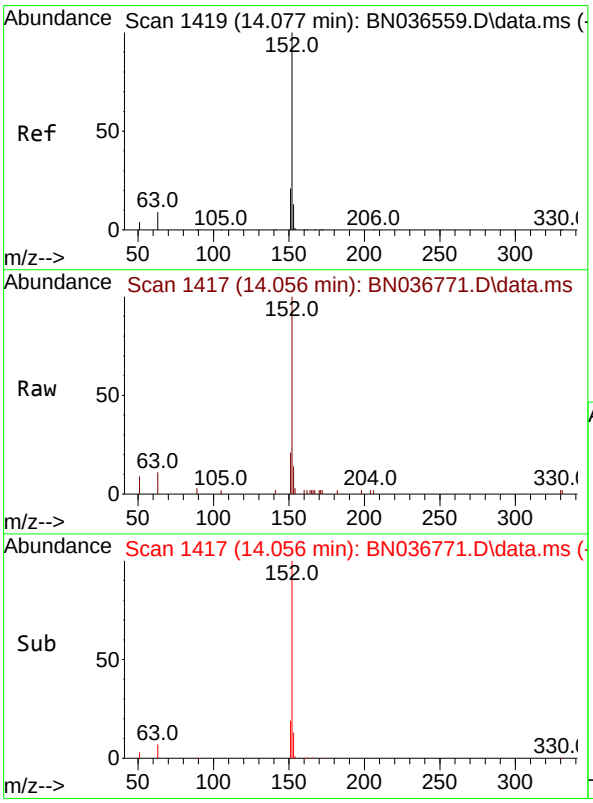
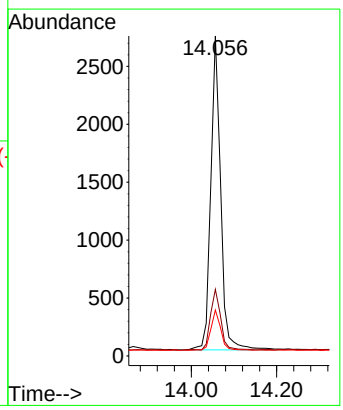
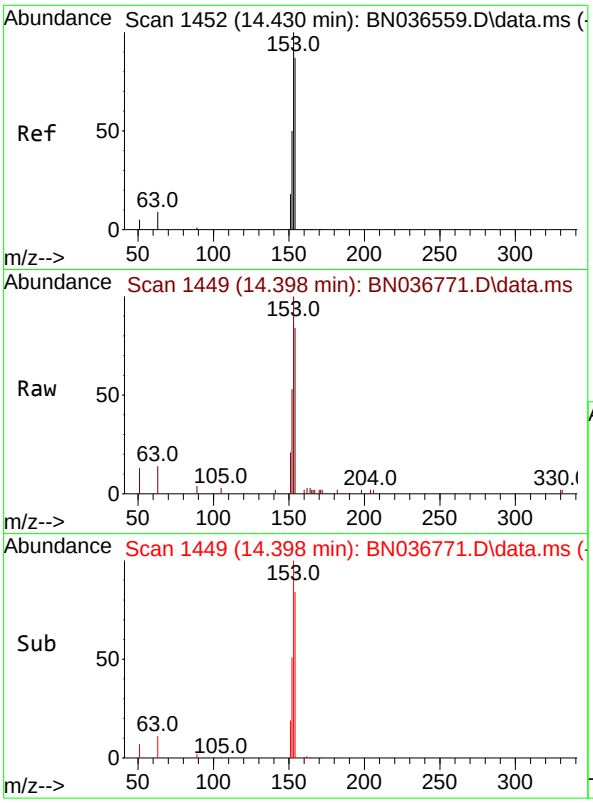


#16
Acenaphthylene
Concen: 0.353 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.021 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:152 Resp: 4358

Ion	Ratio	Lower	Upper
152	100		
151	19.5	16.2	24.4
153	13.1	10.6	15.8

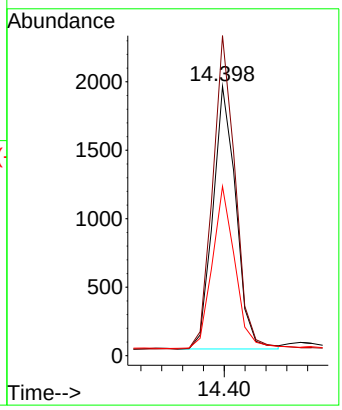




#17
Acenaphthene
Concen: 0.365 ng
RT: 14.398 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:154 Resp: 294

Ion	Ratio	Lower	Upper
154	100		
153	117.7	94.1	141.1
152	61.6	49.8	74.6



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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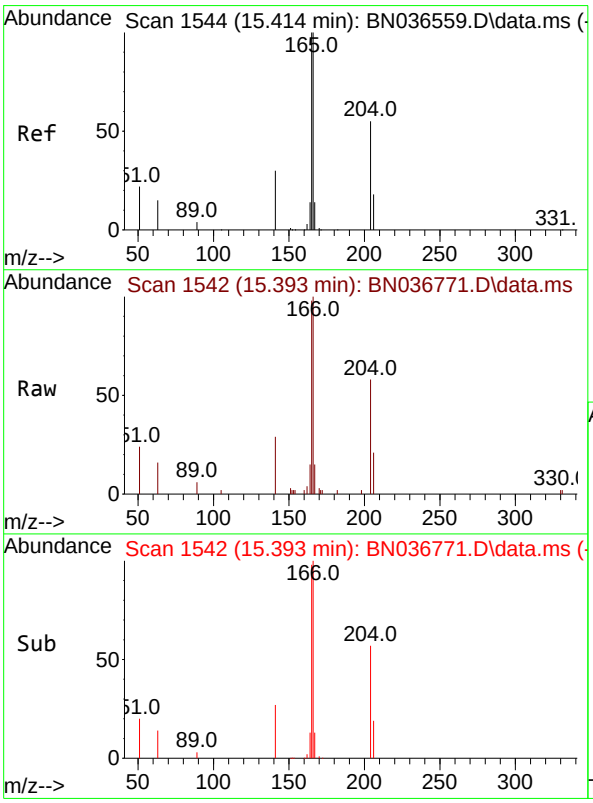
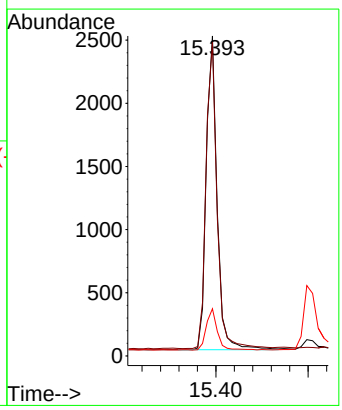
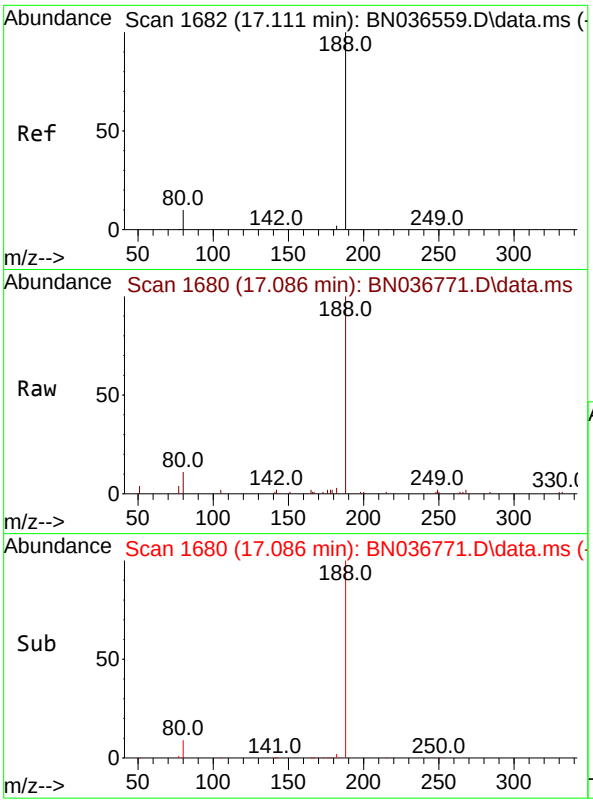


#18
Fluorene
Concen: 0.376 ng
RT: 15.393 min Scan# 1542
Delta R.T. -0.021 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:166 Resp: 4111

Ion	Ratio	Lower	Upper
166	100		
165	97.9	79.8	119.8
167	13.4	10.6	15.8

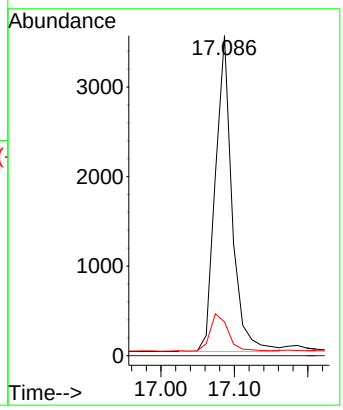




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:188 Resp: 557

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.6	8.8	13.2



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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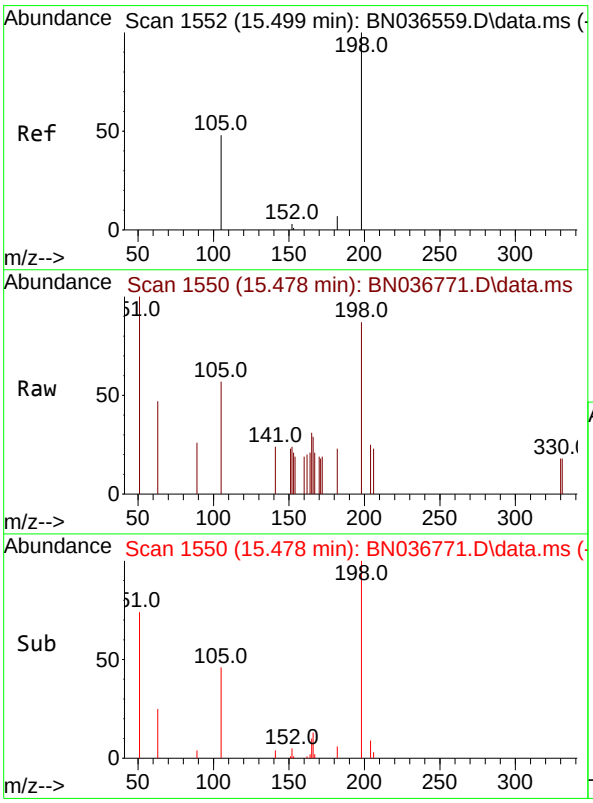
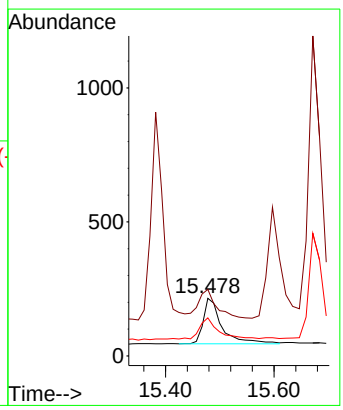
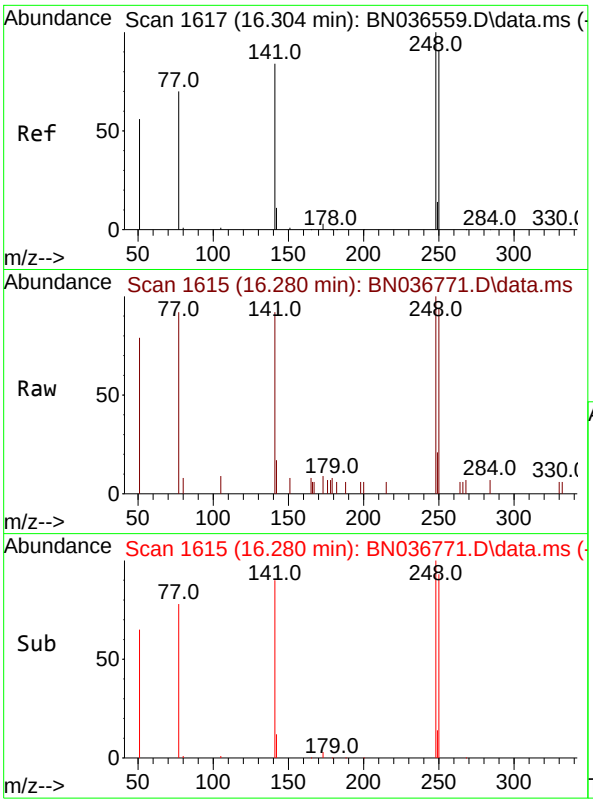


#20
4,6-Dinitro-2-methylphenol
Concen: 0.446 ng
RT: 15.478 min Scan# 1550
Delta R.T. -0.021 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:198 Resp: 428

Ion	Ratio	Lower	Upper
198	100		
51	115.3	107.9	161.9
105	66.0	56.2	84.2





#21
4-Bromophenyl-phenylether
Concen: 0.372 ng
RT: 16.280 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:248 Resp: 130(

Ion	Ratio	Lower	Upper
248	100		
250	93.6	73.0	109.6
141	91.8	68.6	103.0

Instrument :
BNA_N
ClientSampleId :
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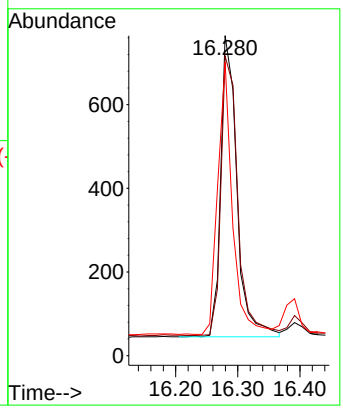
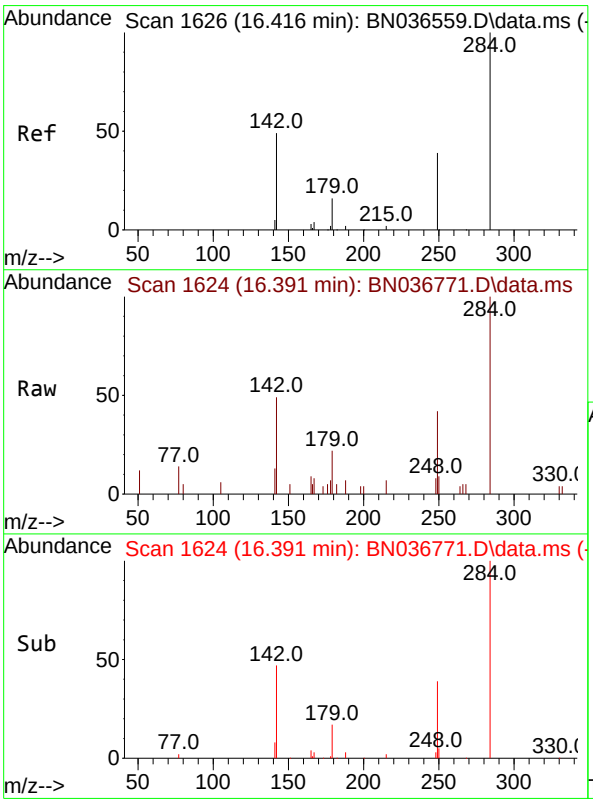
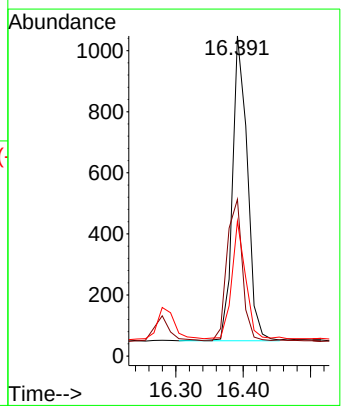


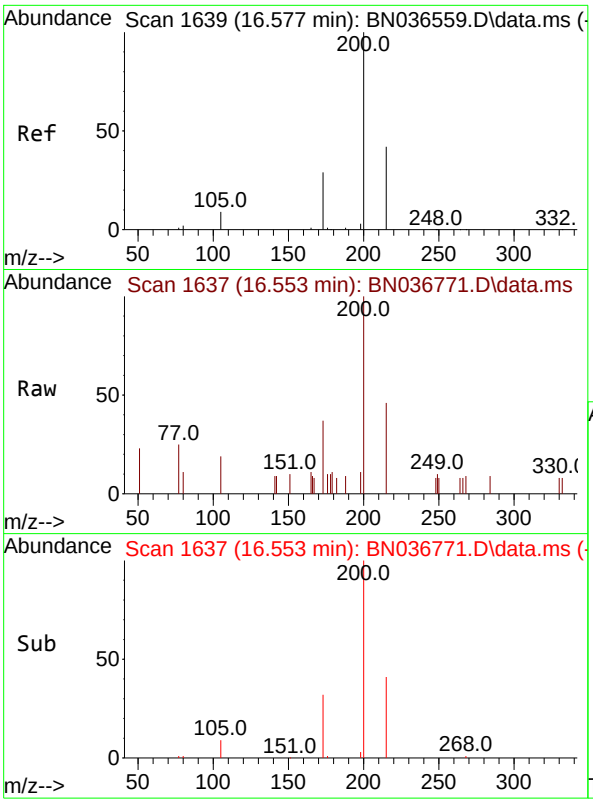


#22
Hexachlorobenzene
Concen: 0.365 ng
RT: 16.391 min Scan# 1624
Delta R.T. -0.025 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:284 Resp: 1537

Ion	Ratio	Lower	Upper
284	100		
142	49.5	37.0	55.4
249	36.2	28.1	42.1

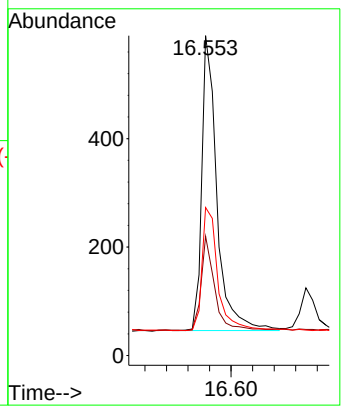




#23
Atrazine
Concen: 0.380 ng
RT: 16.553 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:200 Resp: 106

Ion	Ratio	Lower	Upper
200	100		
173	37.3	27.3	40.9
215	46.3	36.8	55.2



Instrument :
BNA_N
ClientSampleId :
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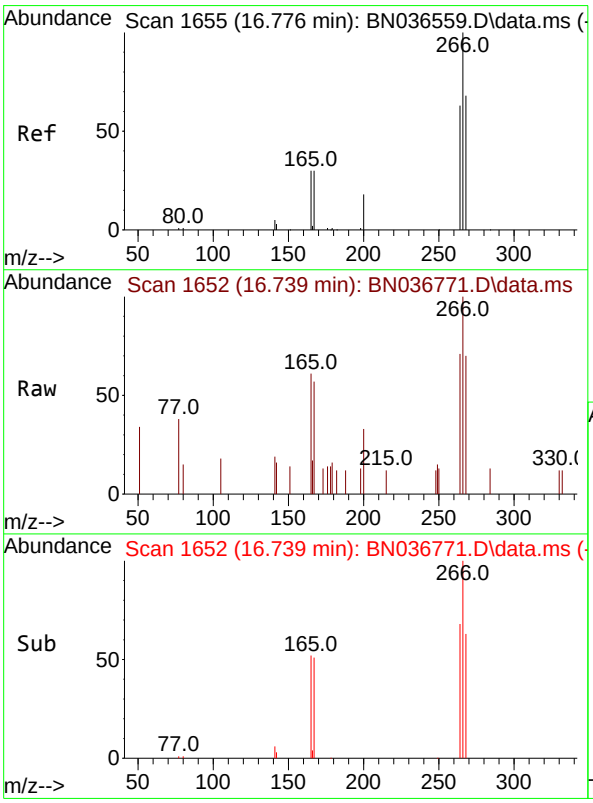
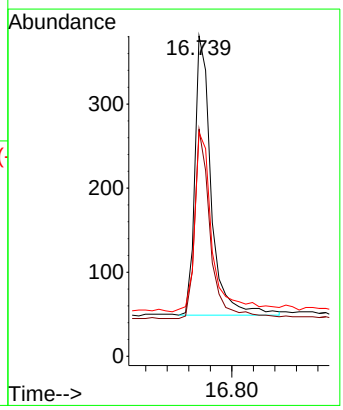
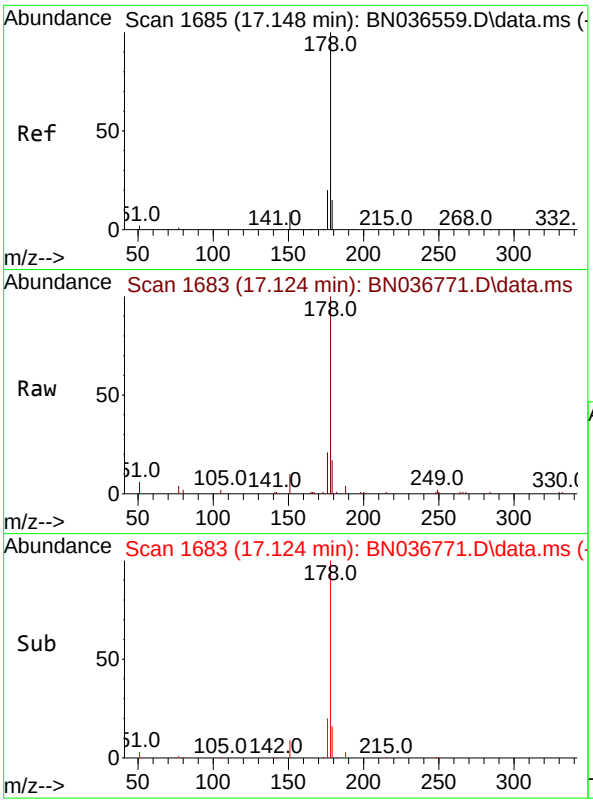


#24
Pentachlorophenol
Concen: 0.365 ng
RT: 16.739 min Scan# 1652
Delta R.T. -0.037 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:266 Resp: 702

Ion	Ratio	Lower	Upper
266	100		
264	64.8	49.6	74.4
268	69.2	50.9	76.3

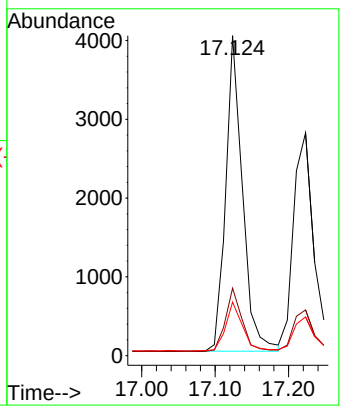




#25
Phenanthrene
Concen: 0.381 ng
RT: 17.124 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:178 Resp: 636

Ion	Ratio	Lower	Upper
178	100		
176	20.0	15.9	23.9
179	15.8	12.2	18.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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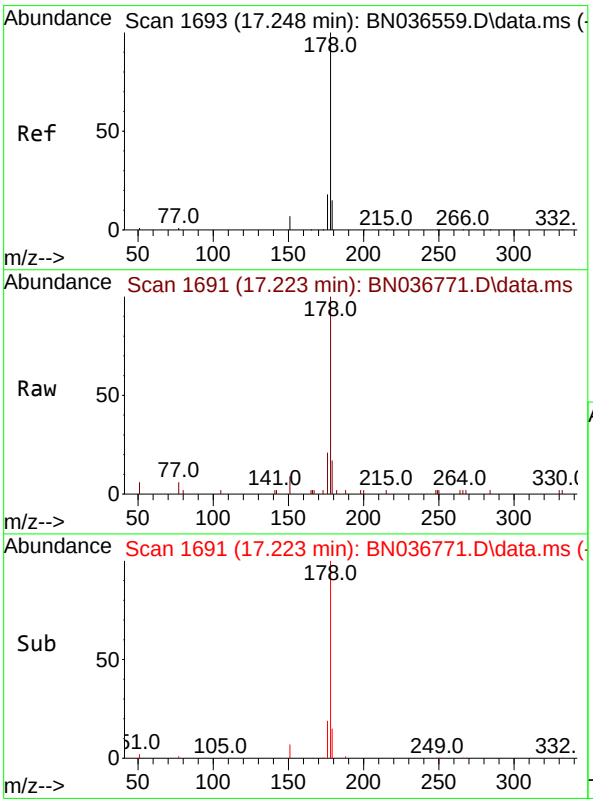
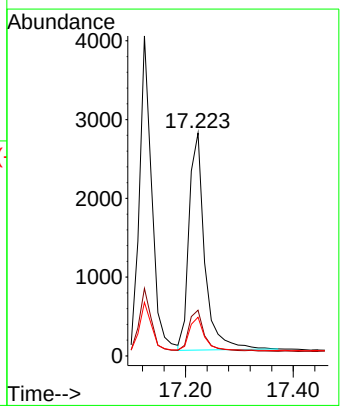
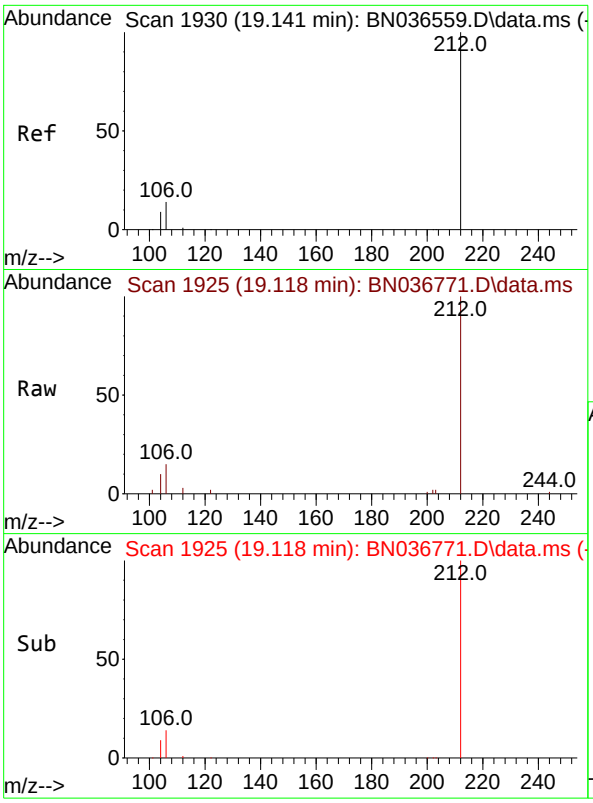


#26
Anthracene
Concen: 0.369 ng
RT: 17.223 min Scan# 1691
Delta R.T. -0.025 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:178 Resp: 5569

Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.4	23.2
179	15.4	12.6	18.8

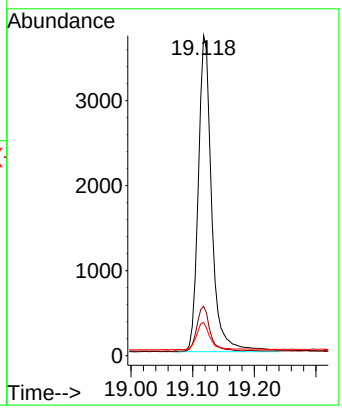




#27
Fluoranthene-d10
Concen: 0.395 ng
RT: 19.118 min Scan# 1
Delta R.T. -0.023 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:212 Resp: 563

Ion	Ratio	Lower	Upper
212	100		
106	13.8	11.8	17.6
104	8.6	7.3	10.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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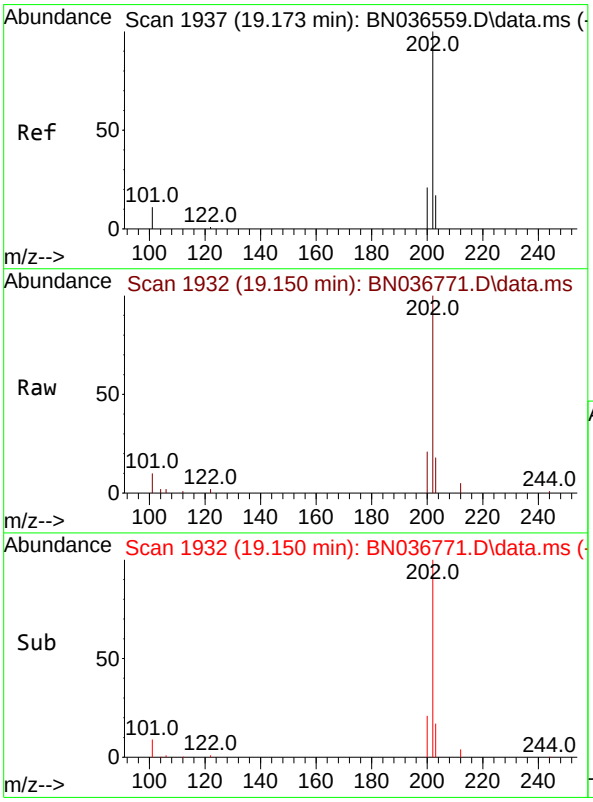
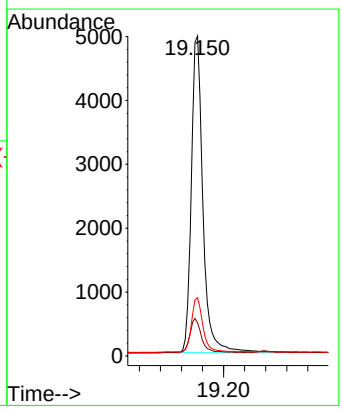
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

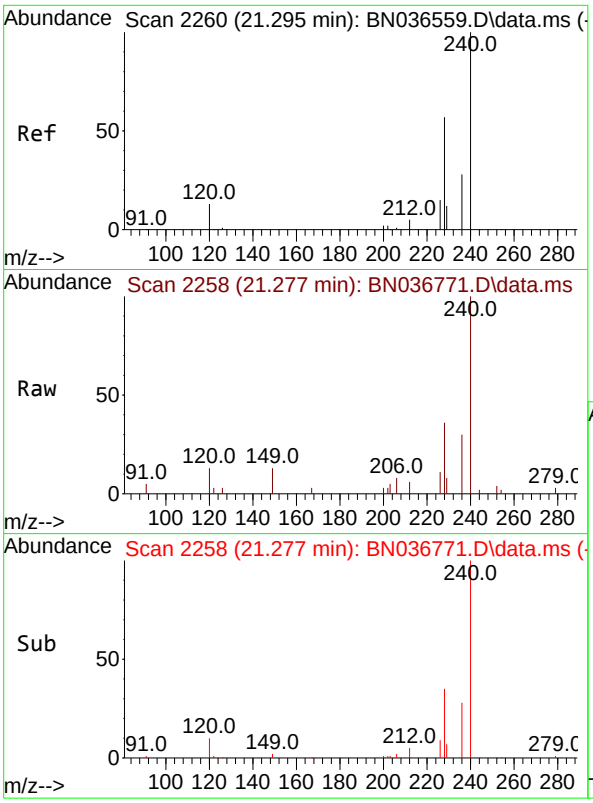


#28
Fluoranthene
Concen: 0.406 ng
RT: 19.150 min Scan# 1932
Delta R.T. -0.023 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:202 Resp: 7617

Ion	Ratio	Lower	Upper
202	100		
101	11.0	9.4	14.0
203	16.8	13.5	20.3

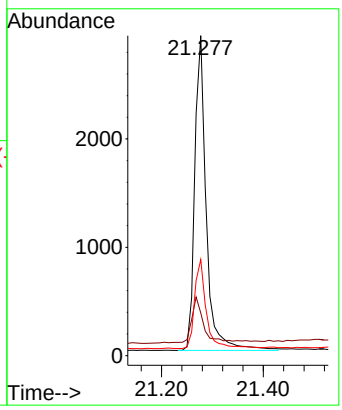




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:240 Resp: 455

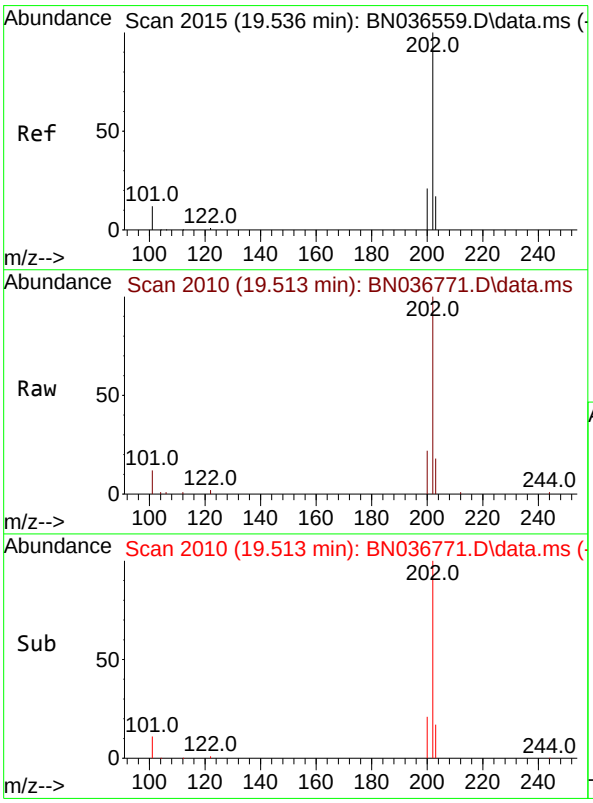
Ion	Ratio	Lower	Upper
240	100		
120	13.3	14.6	22.0
236	30.0	24.1	36.1



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

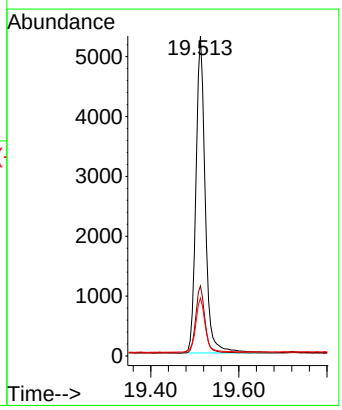
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

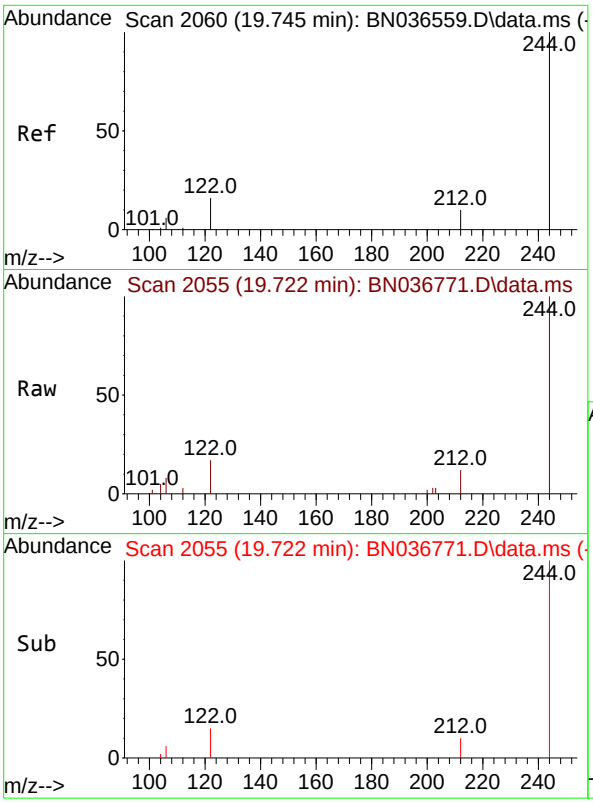


#30
Pyrene
Concen: 0.350 ng
RT: 19.513 min Scan# 2010
Delta R.T. -0.023 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:202 Resp: 7795

Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.1	25.7
203	17.3	14.1	21.1





#31
Terphenyl-d14
Concen: 0.341 ng
RT: 19.722 min Scan# 2
Delta R.T. -0.023 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

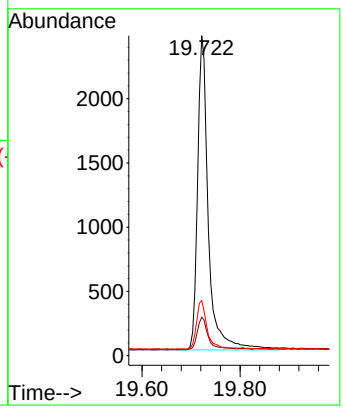
Tgt Ion:244 Resp: 371

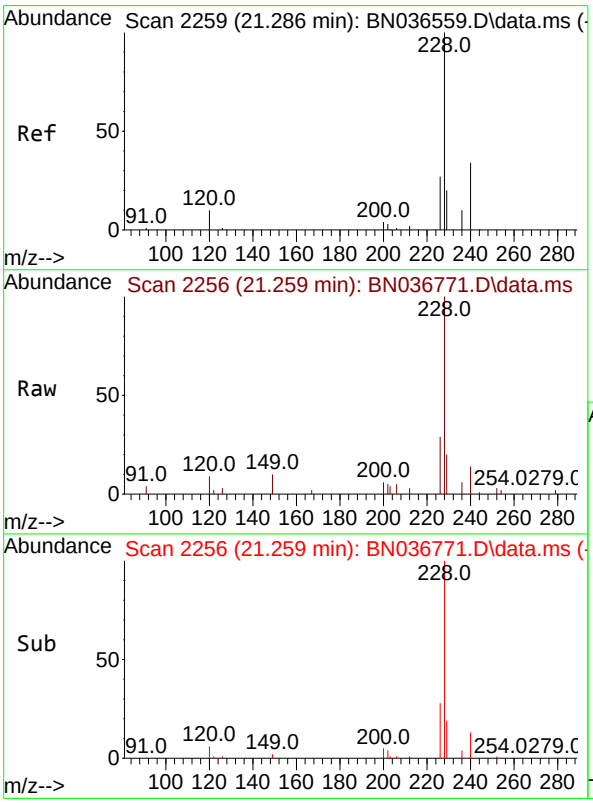
Ion	Ratio	Lower	Upper
244	100		
212	12.0	9.6	14.4
122	17.2	13.9	20.9

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

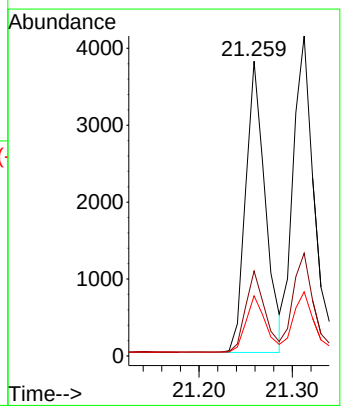


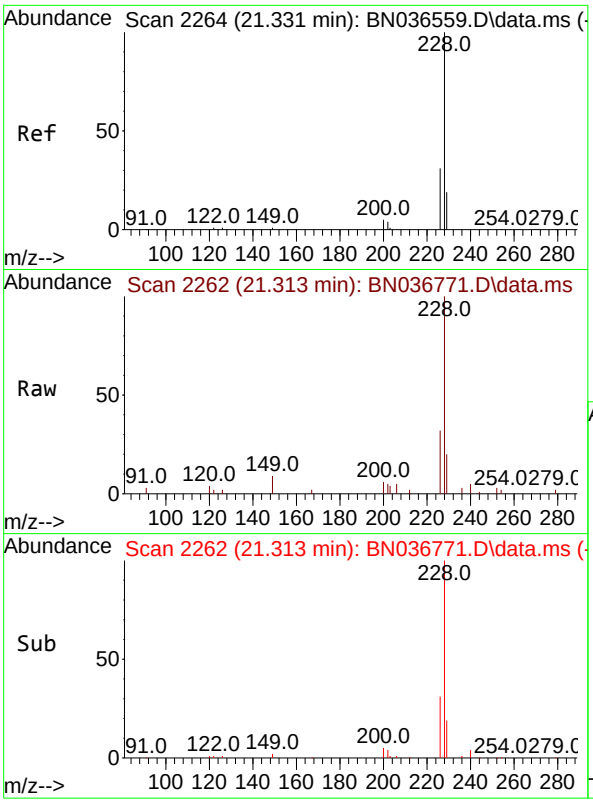


#32
Benzo(a)anthracene
Concen: 0.351 ng
RT: 21.259 min Scan# 2256
Delta R.T. -0.027 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:228 Resp: 5566

Ion	Ratio	Lower	Upper
228	100		
226	28.8	22.5	33.7
229	20.4	16.6	25.0

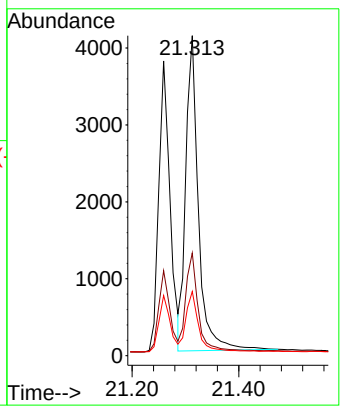




#33
Chrysene
Concen: 0.389 ng
RT: 21.313 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:228 Resp: 672

Ion	Ratio	Lower	Upper
228	100		
226	32.1	25.3	37.9
229	20.0	15.8	23.8



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
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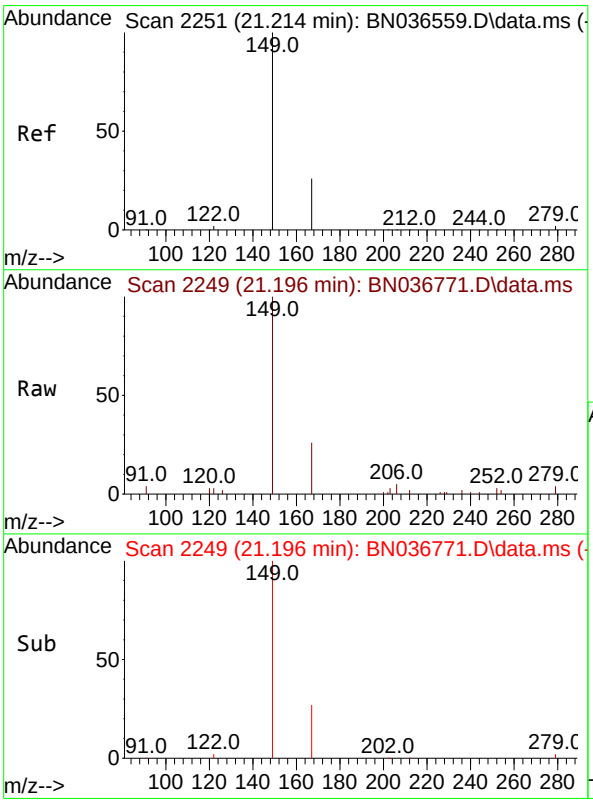
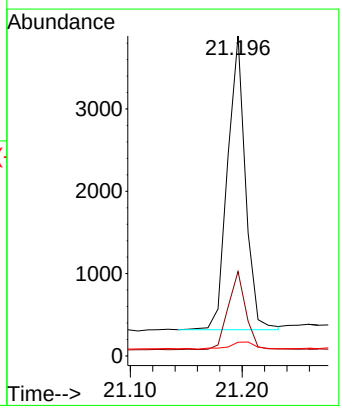
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

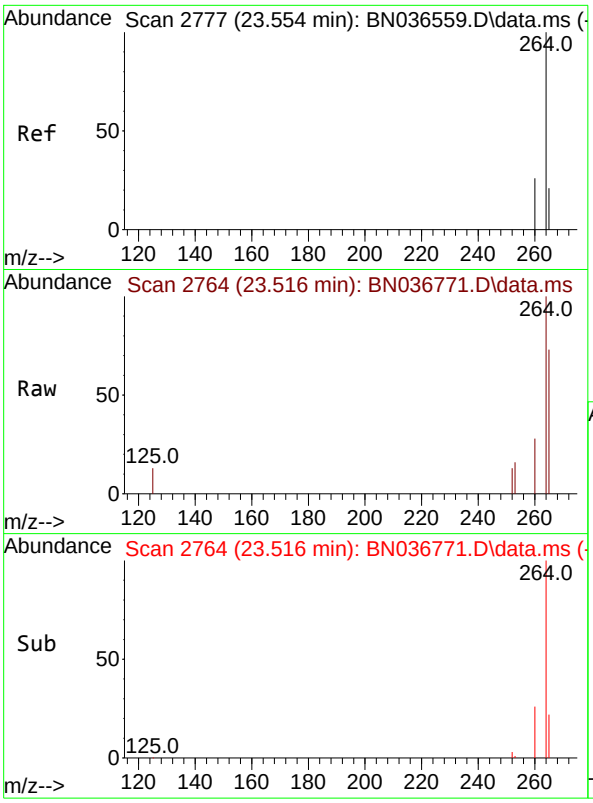


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.352 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:149 Resp: 3968

Ion	Ratio	Lower	Upper
149	100		
167	26.1	20.7	31.1
279	3.3	3.6	5.4#

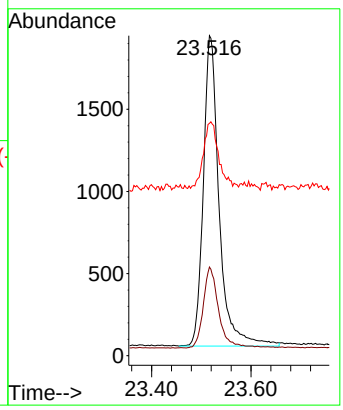




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.516 min Scan# 2
Delta R.T. -0.038 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:264 Resp: 416

Ion	Ratio	Lower	Upper
264	100		
260	27.7	22.6	33.8
265	72.6	88.1	132.1#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
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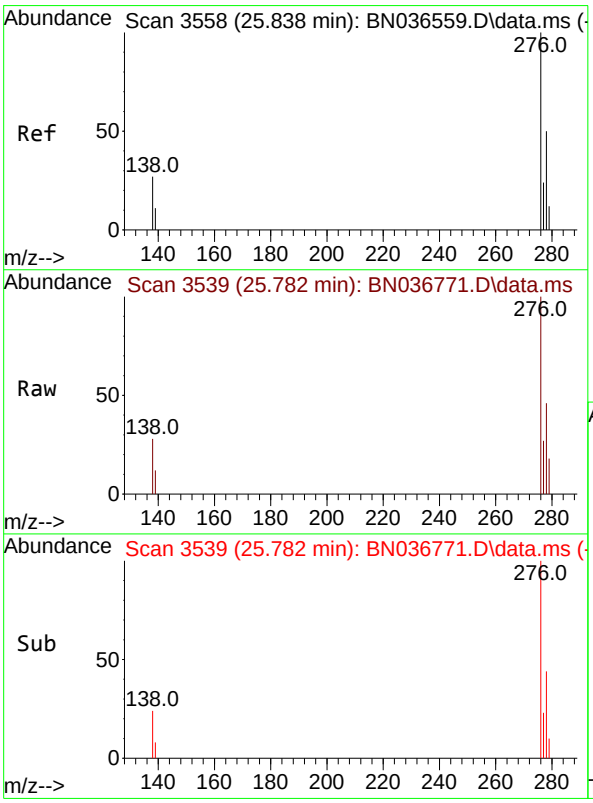
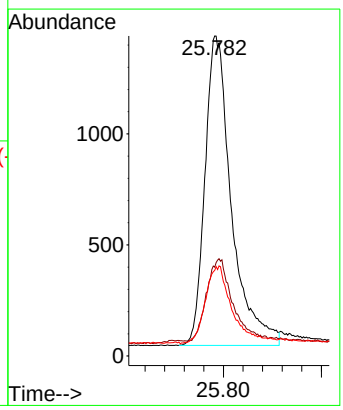
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

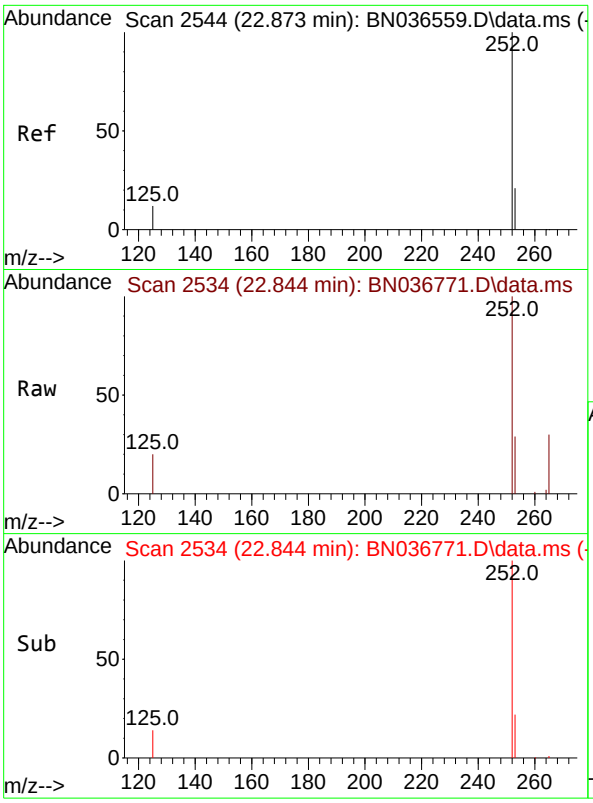


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.348 ng
RT: 25.782 min Scan# 3539
Delta R.T. -0.055 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:276 Resp: 5233

Ion	Ratio	Lower	Upper
276	100		
138	25.8	23.4	35.2
277	25.2	20.0	30.0

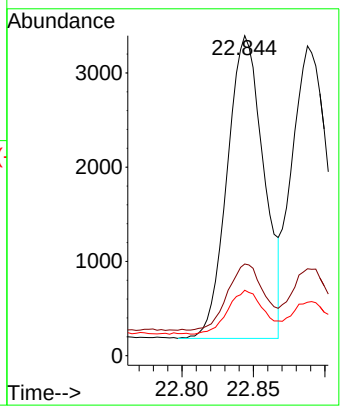




#37
Benzo(b)fluoranthene
Concen: 0.377 ng
RT: 22.844 min Scan# 2
Delta R.T. -0.029 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:252 Resp: 572

Ion	Ratio	Lower	Upper
252	100		
253	28.6	23.9	35.9
125	20.5	17.4	26.2



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
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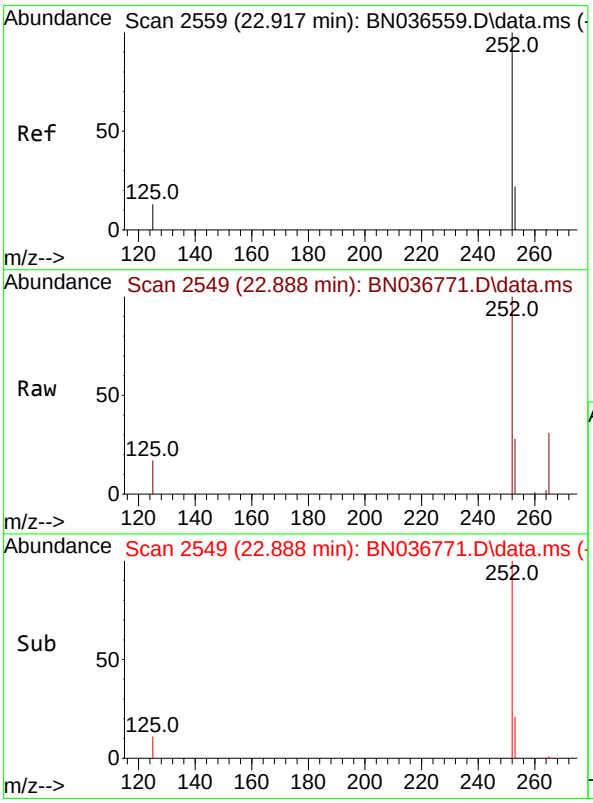
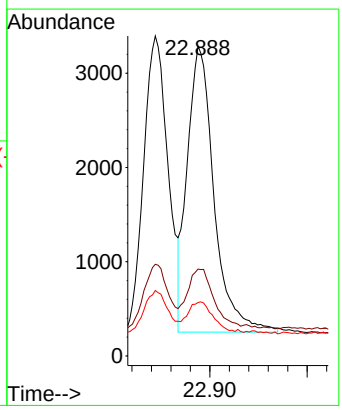
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

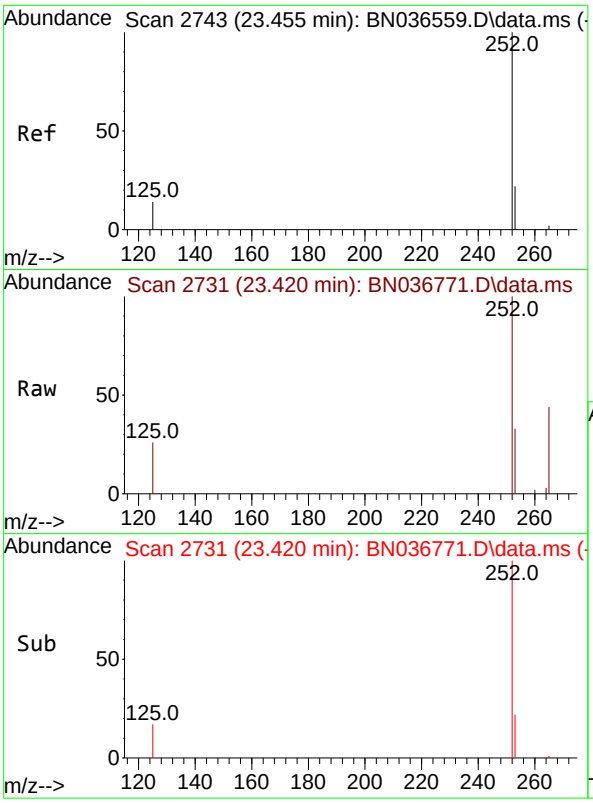


#38
Benzo(k)fluoranthene
Concen: 0.364 ng m
RT: 22.888 min Scan# 2549
Delta R.T. -0.029 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:252 Resp: 5791

Ion	Ratio	Lower	Upper
252	100		
253	28.0	24.6	36.8
125	17.2	17.8	26.8#

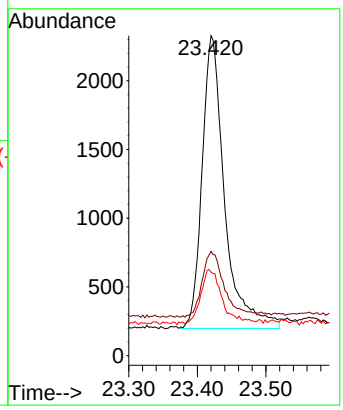




#39
Benzo(a)pyrene
Concen: 0.381 ng
RT: 23.420 min Scan# 2
Delta R.T. -0.035 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:252 Resp: 486

Ion	Ratio	Lower	Upper
252	100		
253	32.6	27.8	41.8
125	26.1	22.7	34.1



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
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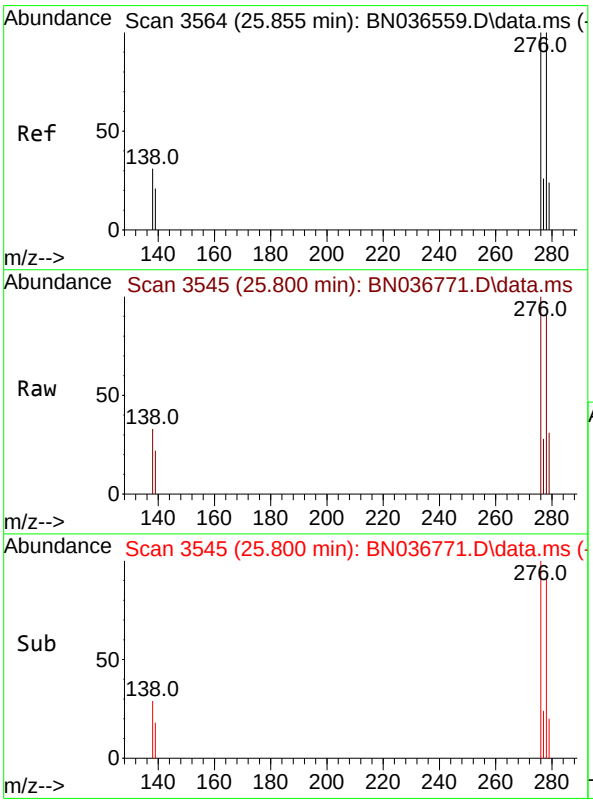
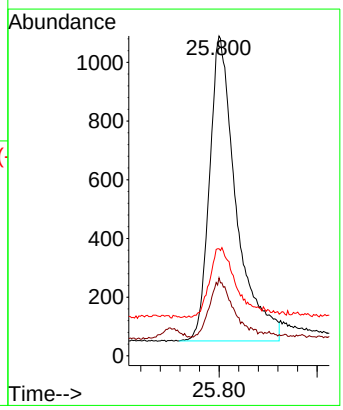
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

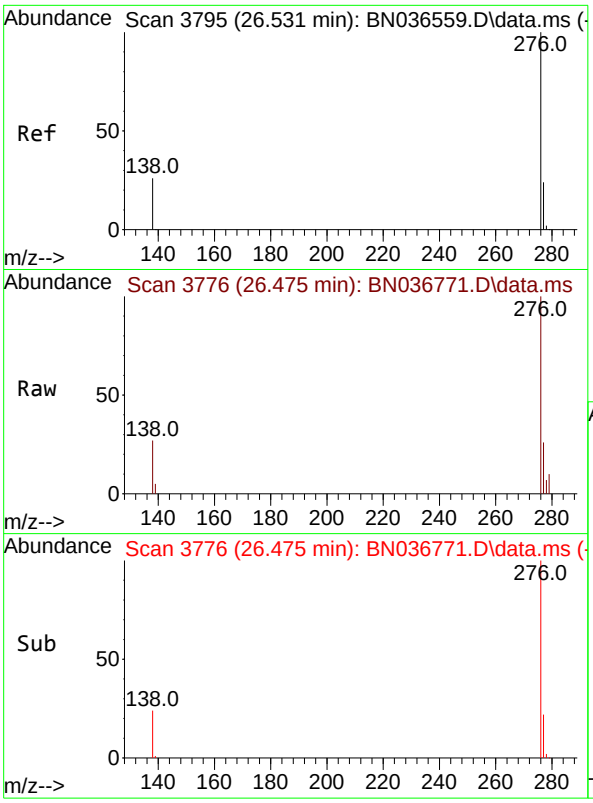


#40
Dibenzo(a,h)anthracene
Concen: 0.334 ng
RT: 25.800 min Scan# 3545
Delta R.T. -0.055 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:278 Resp: 3914

Ion	Ratio	Lower	Upper
278	100		
139	24.4	20.8	31.2
279	33.5	28.8	43.2

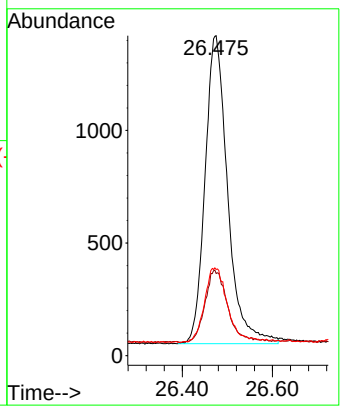




#41
Benzo(g,h,i)perylene
Concen: 0.355 ng
RT: 26.475 min Scan# 3
Delta R.T. -0.055 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:276 Resp: 475

Ion	Ratio	Lower	Upper
276	100		
277	25.7	22.2	33.4
138	27.0	24.1	36.1



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036771.D
Acq On : 28 Mar 2025 13:58
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Mar 28 14:23:03 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 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	74	-0.03
2		1,4-Dioxane	0.444	0.460	-3.6	68	-0.01
3		n-Nitrosodimethylamine	0.898	0.870	3.1	69	-0.01
4	S	2-Fluorophenol	0.932	0.846	9.2	64	-0.02
5	S	Phenol-d6	1.152	1.010	12.3	66	-0.03
6		bis(2-Chloroethyl)ether	1.190	1.021	14.2	64	-0.03
7	I	Naphthalene-d8	1.000	1.000	0.0	82	-0.02
8	S	Nitrobenzene-d5	0.435	0.354	18.6	70	-0.02
9		Naphthalene	1.177	1.044	11.3	71	-0.03
10		Hexachlorobutadiene	0.277	0.250	9.7	70	-0.03
11	SURR	2-Methylnaphthalene-d10	0.595	0.540	9.2	73	-0.03
12		2-Methylnaphthalene	0.749	0.688	8.1	74	-0.03
13	I	Acenaphthene-d10	1.000	1.000	0.0	86	-0.03
14	S	2,4,6-Tribromophenol	0.182	0.177	2.7	82	-0.02
15	S	2-Fluorobiphenyl	2.327	2.021	13.1	73	-0.03
16		Acenaphthylene	1.888	1.667	11.7	74	-0.02
17		Acenaphthene	1.236	1.127	8.8	76	-0.03
18		Fluorene	1.672	1.572	6.0	77	-0.02
19	I	Phenanthrene-d10	1.000	1.000	0.0	93	-0.02
20		4,6-Dinitro-2-methylphenol	0.086	0.077	10.5	93	-0.02
21		4-Bromophenyl-phenylether	0.251	0.233	7.2	79	-0.02
22		Hexachlorobenzene	0.303	0.276	8.9	76	-0.02
23		Atrazine	0.201	0.191	5.0	83	-0.02
24		Pentachlorophenol	0.138	0.126	8.7	86	-0.04
25		Phenanthrene	1.200	1.143	4.7	82	-0.02
26		Anthracene	1.083	1.000	7.7	81	-0.02
27	SURR	Fluoranthene-d10	1.025	1.012	1.3	84	-0.02
28		Fluoranthene	1.348	1.367	-1.4	87	-0.02
29	I	Chrysene-d12	1.000	1.000	0.0	111	-0.02
30		Pyrene	1.956	1.711	12.5	89	-0.02
31	S	Terphenyl-d14	0.958	0.816	14.8	88	-0.02
32		Benzo(a)anthracene	1.391	1.222	12.1	94	-0.03
33		Chrysene	1.520	1.477	2.8	102	-0.02
34		Bis(2-ethylhexyl)phthalate	0.990	0.871	12.0	92	-0.02
35	I	Perylene-d12	1.000	1.000	0.0	118	-0.04
36		Indeno(1,2,3-cd)pyrene	1.444	1.256	13.0	96	-0.06
37		Benzo(b)fluoranthene	1.456	1.373	5.7	104	-0.03
38		Benzo(k)fluoranthene	1.527	1.390	9.0	101	-0.03
39	C	Benzo(a)pyrene	1.226	1.168	4.7	106	-0.03
40		Dibenzo(a,h)anthracene	1.124	0.939	16.5	95	-0.06
41		Benzo(g,h,i)perylene	1.286	1.142	11.2	97	-0.06

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036771.D
Acq On : 28 Mar 2025 13:58
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Mar 28 14:23:03 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 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	74	-0.03
2		1,4-Dioxane	0.400	0.414	-3.5	68	-0.01
3		n-Nitrosodimethylamine	0.400	0.388	3.0	69	-0.01
4	S	2-Fluorophenol	0.400	0.363	9.3	64	-0.02
5	S	Phenol-d6	0.400	0.351	12.3	66	-0.03
6		bis(2-Chloroethyl)ether	0.400	0.343	14.2	64	-0.03
7	I	Naphthalene-d8	0.400	0.400	0.0	82	-0.02
8	S	Nitrobenzene-d5	0.400	0.326	18.5	70	-0.02
9		Naphthalene	0.400	0.355	11.3	71	-0.03
10		Hexachlorobutadiene	0.400	0.361	9.8	70	-0.03
11	SURR	2-Methylnaphthalene-d10	0.400	0.363	9.3	73	-0.03
12		2-Methylnaphthalene	0.400	0.368	8.0	74	-0.03
13	I	Acenaphthene-d10	0.400	0.400	0.0	86	-0.03
14	S	2,4,6-Tribromophenol	0.400	0.391	2.3	82	-0.02
15	S	2-Fluorobiphenyl	0.400	0.347	13.3	73	-0.03
16		Acenaphthylene	0.400	0.353	11.8	74	-0.02
17		Acenaphthene	0.400	0.365	8.8	76	-0.03
18		Fluorene	0.400	0.376	6.0	77	-0.02
19	I	Phenanthrene-d10	0.400	0.400	0.0	93	-0.02
20		4,6-Dinitro-2-methylphenol	0.400	0.446	-11.5	93	-0.02
21		4-Bromophenyl-phenylether	0.400	0.372	7.0	79	-0.02
22		Hexachlorobenzene	0.400	0.365	8.8	76	-0.02
23		Atrazine	0.400	0.380	5.0	83	-0.02
24		Pentachlorophenol	0.400	0.365	8.8	86	-0.04
25		Phenanthrene	0.400	0.381	4.8	82	-0.02
26		Anthracene	0.400	0.369	7.8	81	-0.02
27	SURR	Fluoranthene-d10	0.400	0.395	1.3	84	-0.02
28		Fluoranthene	0.400	0.406	-1.5	87	-0.02
29	I	Chrysene-d12	0.400	0.400	0.0	111	-0.02
30		Pyrene	0.400	0.350	12.5	89	-0.02
31	S	Terphenyl-d14	0.400	0.341	14.8	88	-0.02
32		Benzo(a)anthracene	0.400	0.351	12.3	94	-0.03
33		Chrysene	0.400	0.389	2.8	102	-0.02
34		Bis(2-ethylhexyl)phthalate	0.400	0.352	12.0	92	-0.02
35	I	Perylene-d12	0.400	0.400	0.0	118	-0.04
36		Indeno(1,2,3-cd)pyrene	0.400	0.348	13.0	96	-0.06
37		Benzo(b)fluoranthene	0.400	0.377	5.8	104	-0.03
38		Benzo(k)fluoranthene	0.400	0.364	9.0	101	-0.03
39	C	Benzo(a)pyrene	0.400	0.381	4.8	106	-0.03
40		Dibenzo(a,h)anthracene	0.400	0.334	16.5	95	-0.06
41		Benzo(g,h,i)perylene	0.400	0.355	11.3	97	-0.06

(#) = 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: TETR06

Lab Code: CHEM Case No.: Q1621 SAS No.: Q1621 SDG No.: Q1621

Instrument ID: BNA_N Calibration Date/Time: 03/29/2025 02:44

Lab File ID: BN036791.D Init. Calib. Date(s): 03/10/2025 03/10/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 11:42 15:19

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.595	0.526		-11.6	20.0
Fluoranthene-d10	1.025	1.032		0.7	20.0
2-Fluorophenol	0.932	0.833		-10.6	20.0
Phenol-d6	1.152	1.007		-12.6	20.0
Nitrobenzene-d5	0.435	0.376		-13.6	20.0
2-Fluorobiphenyl	2.327	2.041		-12.3	20.0
2,4,6-Tribromophenol	0.182	0.178		-2.2	20.0
Terphenyl-d14	0.958	0.782		-18.4	20.0
1,4-Dioxane	0.444	0.453		2.0	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
Data File : BN036791.D
Acq On : 29 Mar 2025 02:44
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Mar 29 04:28:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.696	152	1826	0.400	ng		-0.03
7) Naphthalene-d8	10.477	136	4490	0.400	ng		-0.03
13) Acenaphthene-d10	14.334	164	2701	0.400	ng		-0.03
19) Phenanthrene-d10	17.087	188	5571	0.400	ng		-0.02
29) Chrysene-d12	21.268	240	4634	0.400	ng		-0.03
35) Perylene-d12	23.516	264	4032	0.400	ng		#-0.04
System Monitoring Compounds							
4) 2-Fluorophenol	5.291	112	1521	0.357	ng		-0.02
5) Phenol-d6	6.872	99	1838	0.350	ng		-0.03
8) Nitrobenzene-d5	8.843	82	1689	0.346	ng		-0.03
11) 2-Methylnaphthalene-d10	12.075	152	2363	0.354	ng		-0.04
14) 2,4,6-Tribromophenol	15.833	330	481	0.392	ng		-0.02
15) 2-Fluorobiphenyl	12.963	172	5513	0.351	ng		-0.03
27) Fluoranthene-d10	19.118	212	5751	0.403	ng		-0.02
31) Terphenyl-d14	19.722	244	3623	0.326	ng		-0.02
Target Compounds							Qvalue
2) 1,4-Dioxane	3.225	88	827	0.408	ng		98
3) n-Nitrosodimethylamine	3.543	42	1757	0.429	ng		91
6) bis(2-Chloroethyl)ether	7.125	93	1880	0.346	ng		99
9) Naphthalene	10.530	128	4740	0.359	ng		99
10) Hexachlorobutadiene	10.819	225	1160	0.373	ng	#	98
12) 2-Methylnaphthalene	12.151	142	3044	0.362	ng		98
16) Acenaphthylene	14.056	152	4532	0.356	ng		99
17) Acenaphthene	14.398	154	3064	0.367	ng		99
18) Fluorene	15.393	166	4209	0.373	ng		99
20) 4,6-Dinitro-2-methylph...	15.478	198	395	0.423	ng	#	76
21) 4-Bromophenyl-phenylether	16.280	248	1353	0.388	ng		96
22) Hexachlorobenzene	16.391	284	1582	0.375	ng		97
23) Atrazine	16.553	200	1090	0.389	ng		97
24) Pentachlorophenol	16.739	266	740	0.385	ng		98
25) Phenanthrene	17.124	178	6416	0.384	ng		99
26) Anthracene	17.223	178	5669	0.376	ng		100
28) Fluoranthene	19.146	202	7784	0.415	ng		99
30) Pyrene	19.513	202	7947	0.351	ng		100
32) Benzo(a)anthracene	21.259	228	5842	0.363	ng		100
33) Chrysene	21.304	228	6781	0.385	ng		99
34) Bis(2-ethylhexyl)phtha...	21.196	149	4355	0.380	ng	#	99
36) Indeno(1,2,3-cd)pyrene	25.779	276	5407	0.372	ng		94
37) Benzo(b)fluoranthene	22.841	252	5627	0.383	ng		97
38) Benzo(k)fluoranthene	22.885	252	6157m	0.400	ng		
39) Benzo(a)pyrene	23.417	252	4993	0.404	ng		95
40) Dibenzo(a,h)anthracene	25.800	278	4150	0.366	ng		93
41) Benzo(g,h,i)perylene	26.469	276	4876	0.376	ng		95

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

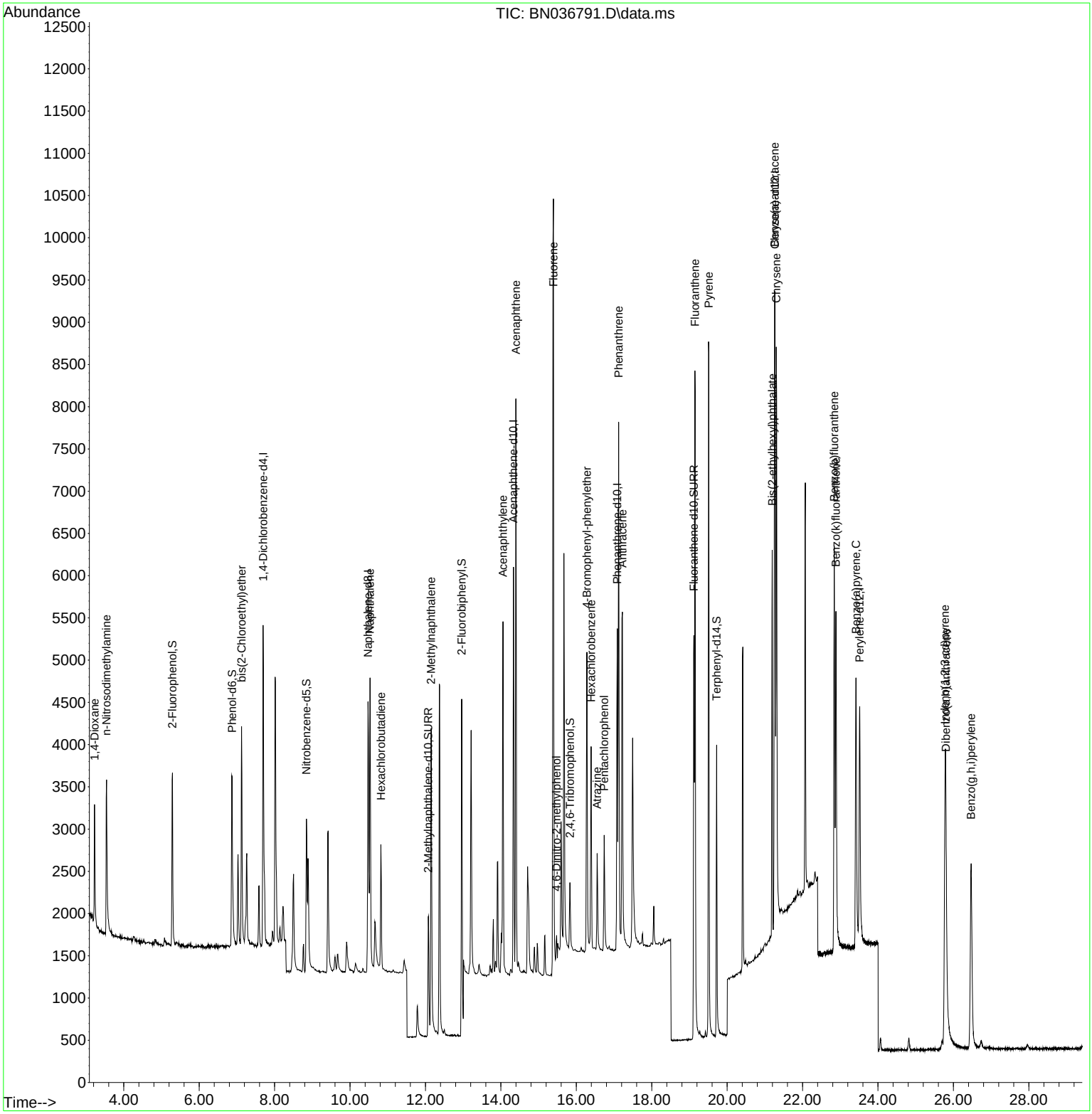
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
Data File : BN036791.D
Acq On : 29 Mar 2025 02:44
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 22 Sample Multiplier: 1

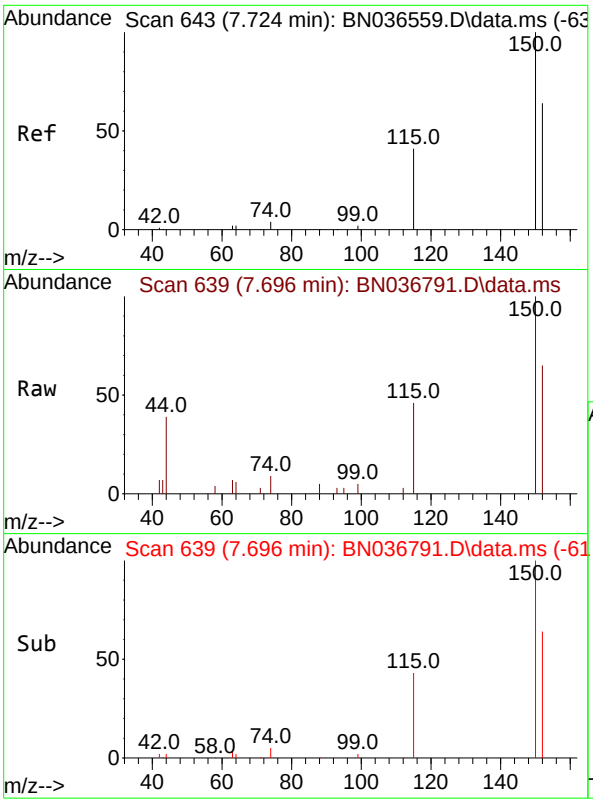
Quant Time: Mar 29 04:28:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

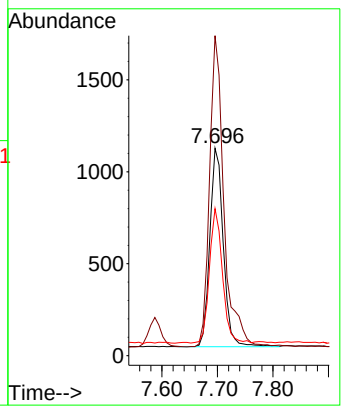




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.696 min Scan# 6
Delta R.T. -0.028 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:152 Resp: 182

Ion	Ratio	Lower	Upper
152	100		
150	154.3	123.7	185.5
115	70.9	54.3	81.5



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
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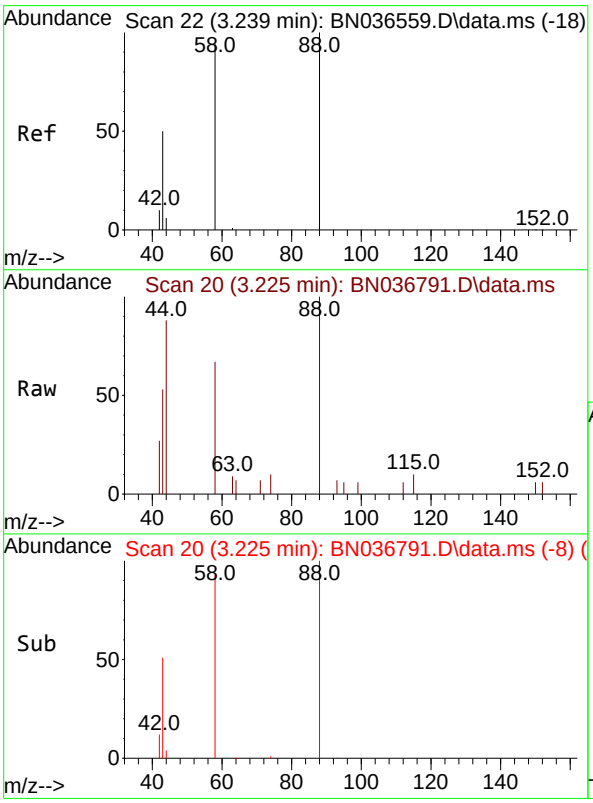
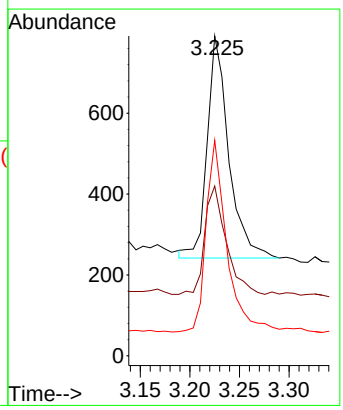
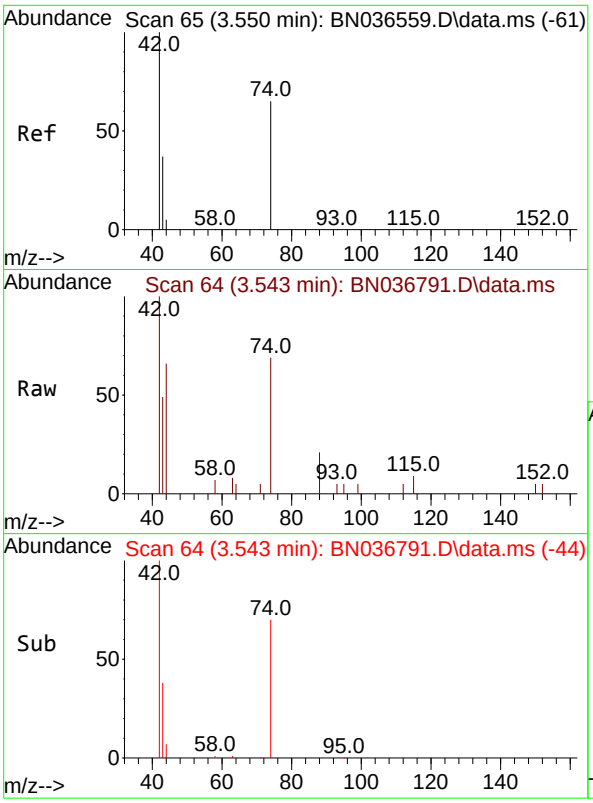


#2
1,4-Dioxane
Concen: 0.408 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion: 88 Resp: 827

Ion	Ratio	Lower	Upper
88	100		
43	48.5	37.8	56.8
58	83.0	67.4	101.2

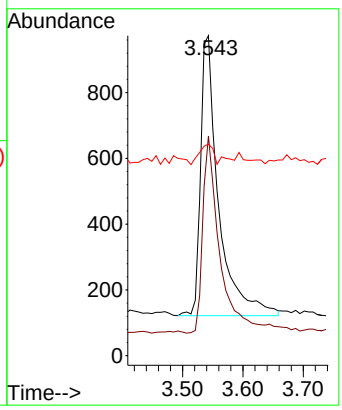




#3
n-Nitrosodimethylamine
Concen: 0.429 ng
RT: 3.543 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion: 42 Resp: 175

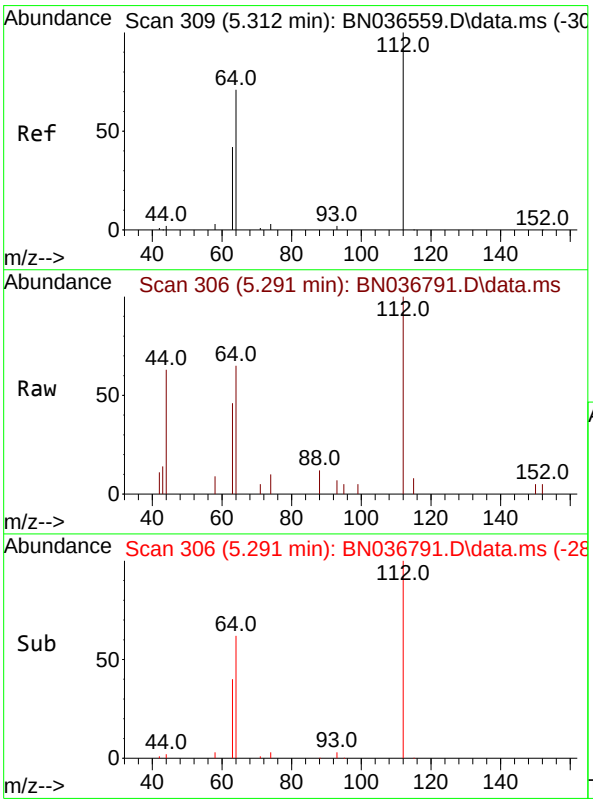
Ion	Ratio	Lower	Upper
42	100		
74	67.4	60.6	90.8
44	6.6	6.3	9.5



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

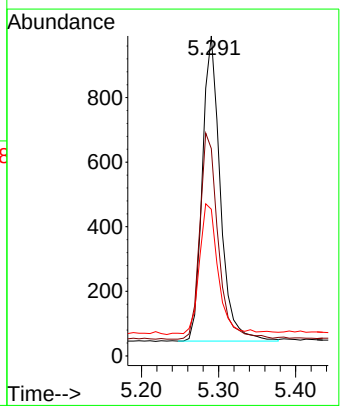
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

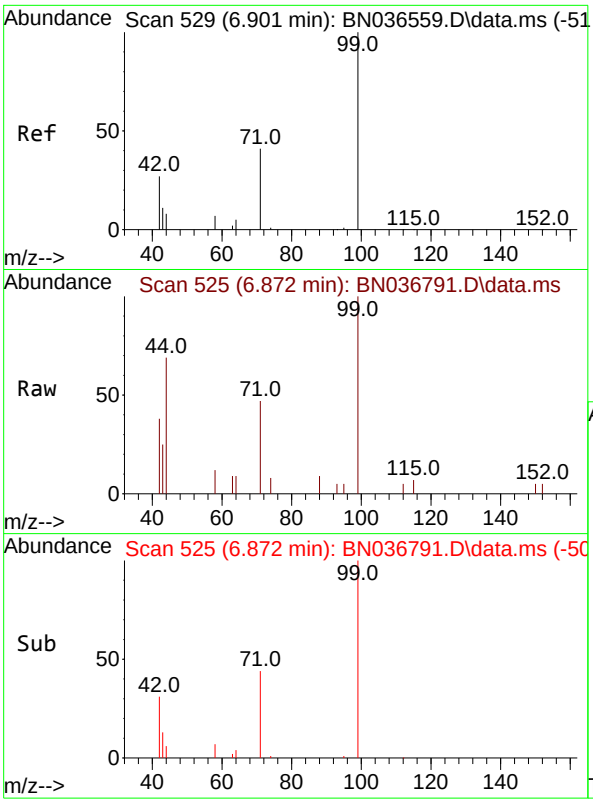


#4
2-Fluorophenol
Concen: 0.357 ng
RT: 5.291 min Scan# 306
Delta R.T. -0.021 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:112 Resp: 1521

Ion	Ratio	Lower	Upper
112	100		
64	68.8	53.1	79.7
63	46.2	31.8	47.8

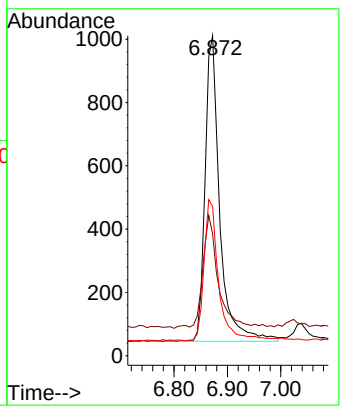




#5
Phenol-d6
Concen: 0.350 ng
RT: 6.872 min Scan# 5
Delta R.T. -0.029 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion: 99 Resp: 183

Ion	Ratio	Lower	Upper
99	100		
42	38.7	26.5	39.7
71	46.1	34.1	51.1



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
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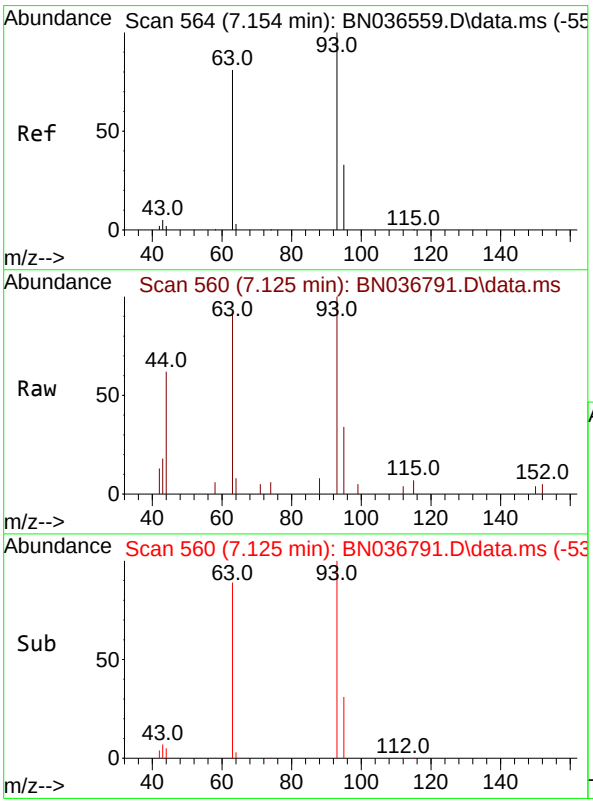
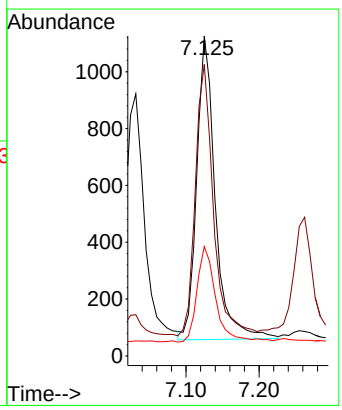
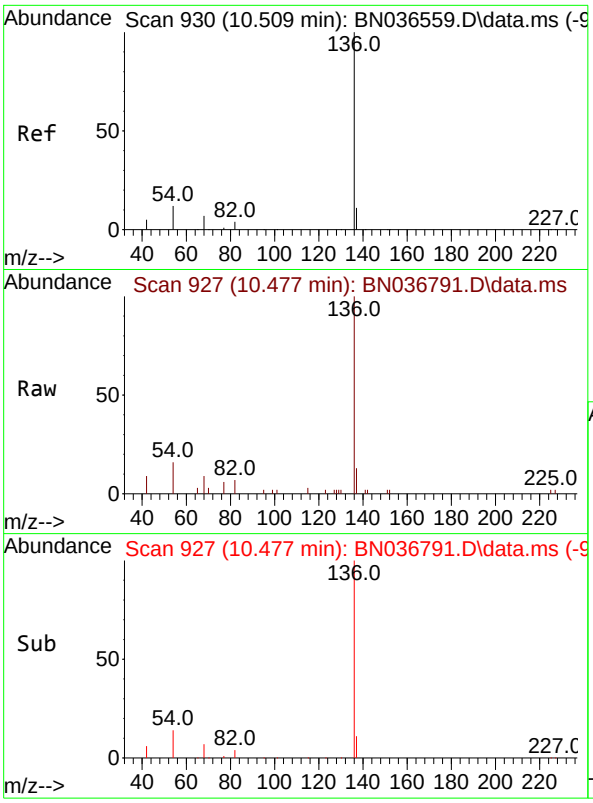


#6
bis(2-Chloroethyl)ether
Concen: 0.346 ng
RT: 7.125 min Scan# 560
Delta R.T. -0.029 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion: 93 Resp: 1880

Ion	Ratio	Lower	Upper
93	100		
63	85.9	67.7	101.5
95	31.5	25.6	38.4

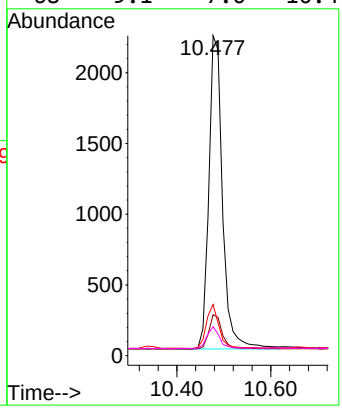




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.477 min Scan# 9
Delta R.T. -0.032 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:136 Resp: 449

Ion	Ratio	Lower	Upper
136	100		
137	12.8	10.3	15.5
54	16.0	11.5	17.3
68	9.1	7.0	10.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/31/2025
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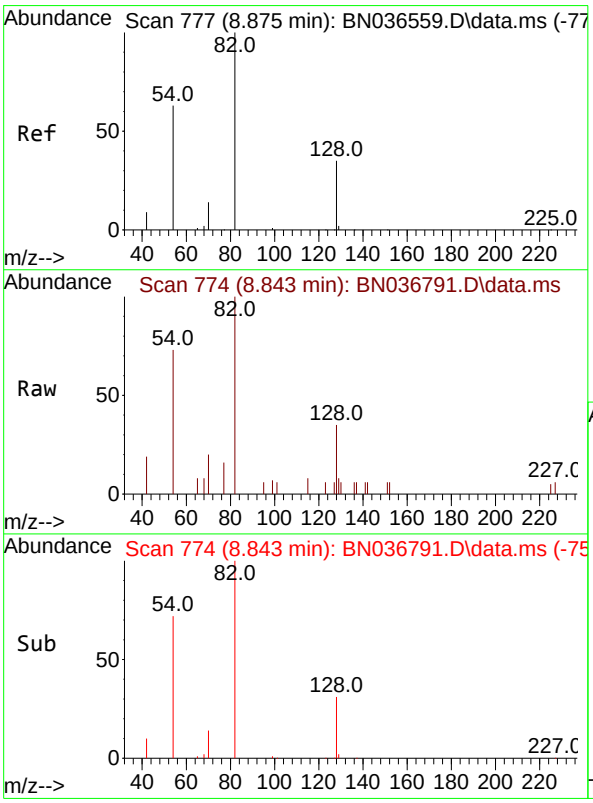
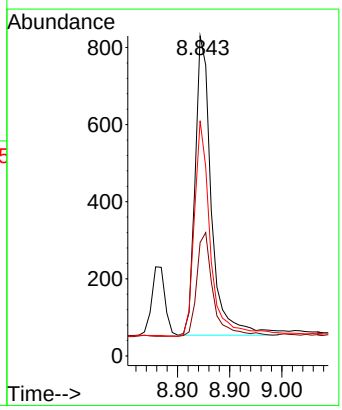
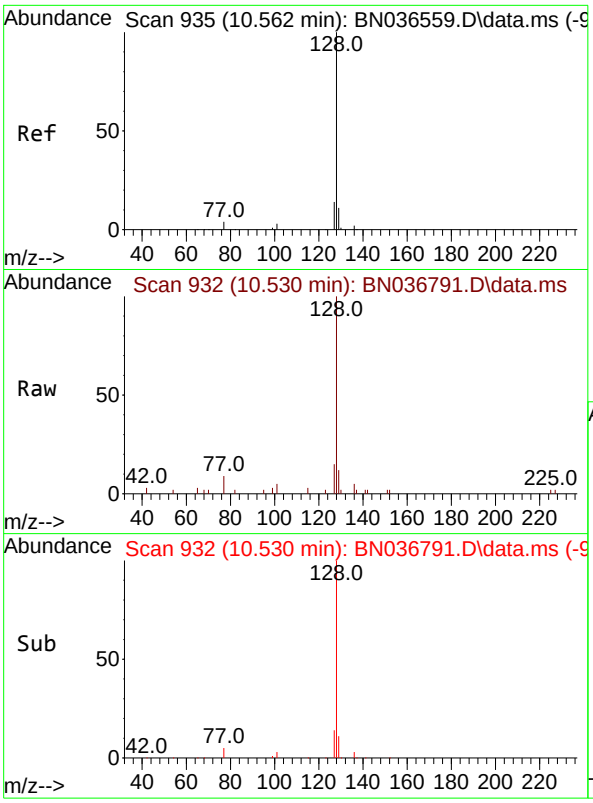


#8
Nitrobenzene-d5
Concen: 0.346 ng
RT: 8.843 min Scan# 774
Delta R.T. -0.032 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion: 82 Resp: 1689

Ion	Ratio	Lower	Upper
82	100		
128	35.4	30.6	45.8
54	73.5	52.2	78.4

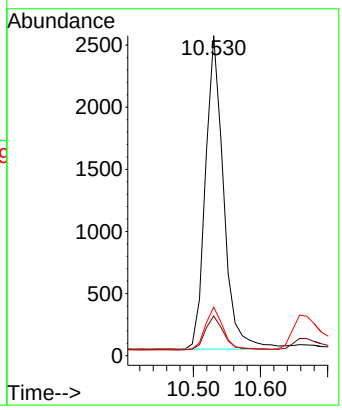




#9
Naphthalene
Concen: 0.359 ng
RT: 10.530 min Scan# 9
Delta R.T. -0.032 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:128 Resp: 474

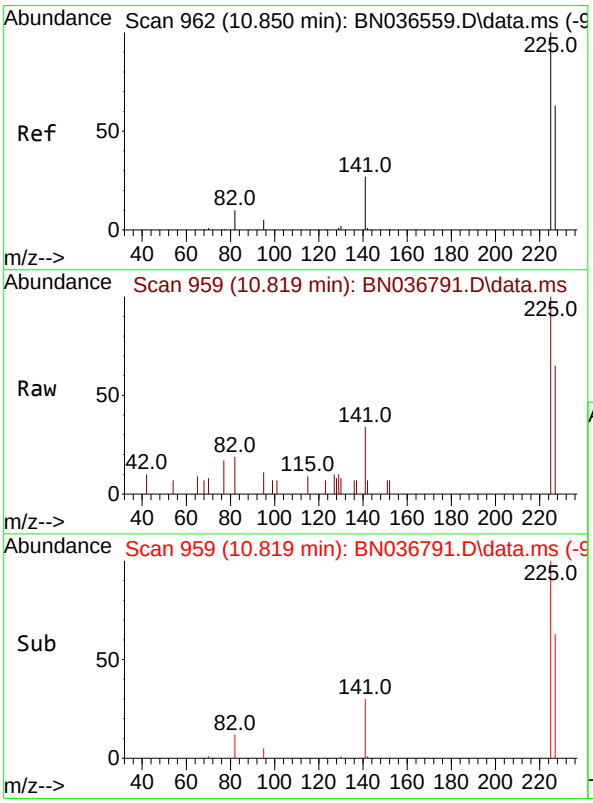
Ion	Ratio	Lower	Upper
128	100		
129	12.4	9.8	14.6
127	15.2	11.8	17.8



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

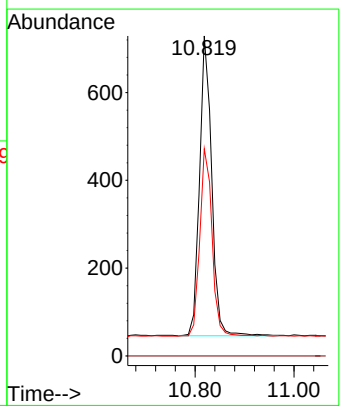
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

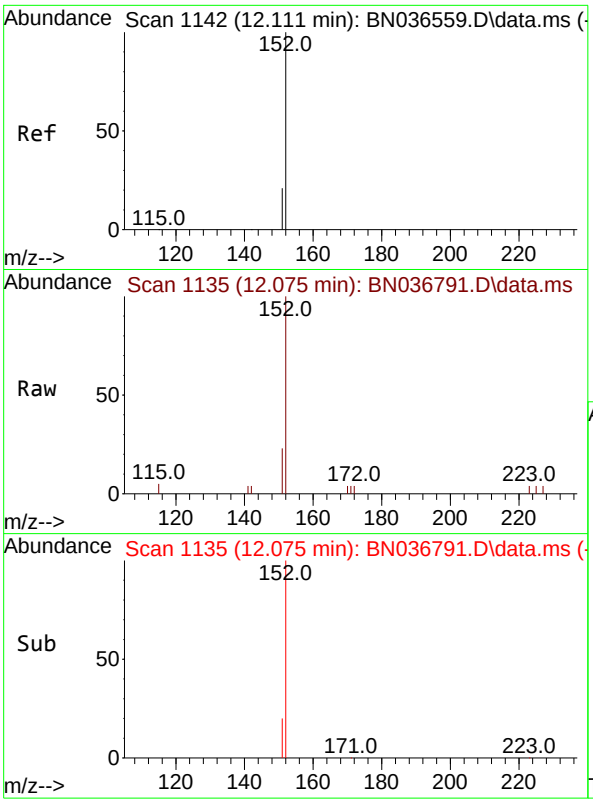


#10
Hexachlorobutadiene
Concen: 0.373 ng
RT: 10.819 min Scan# 959
Delta R.T. -0.032 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:225 Resp: 1160

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.4	51.8	77.8





#11
2-Methylnaphthalene-d10
Concen: 0.354 ng
RT: 12.075 min Scan# 11
Delta R.T. -0.035 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:152 Resp: 236

Ion	Ratio	Lower	Upper
152	100		
151	21.9	17.0	25.6

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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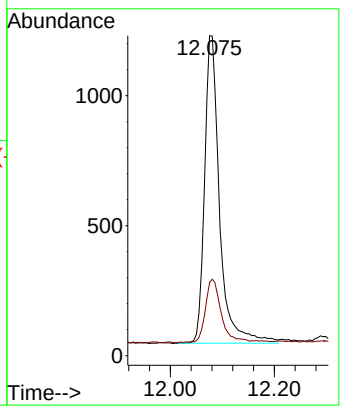
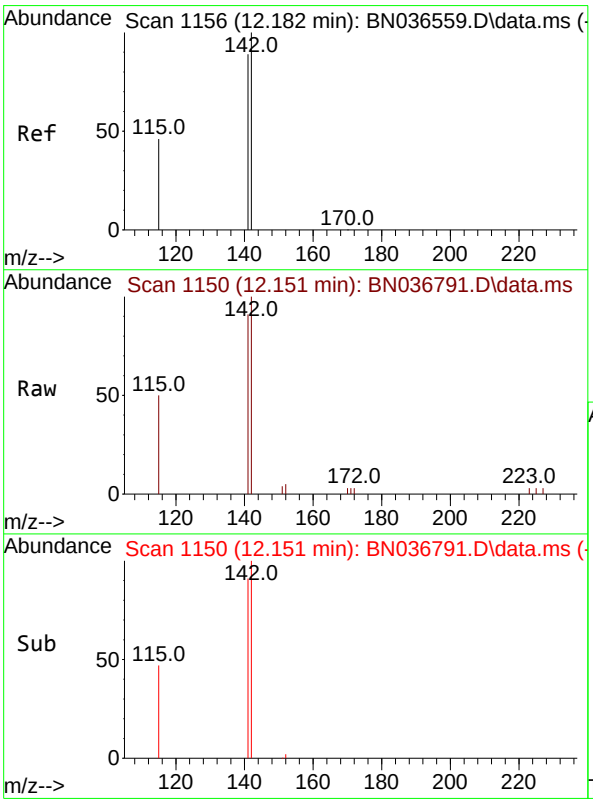
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

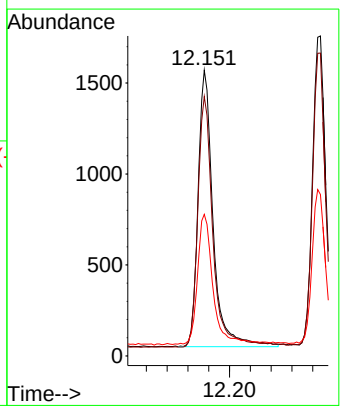


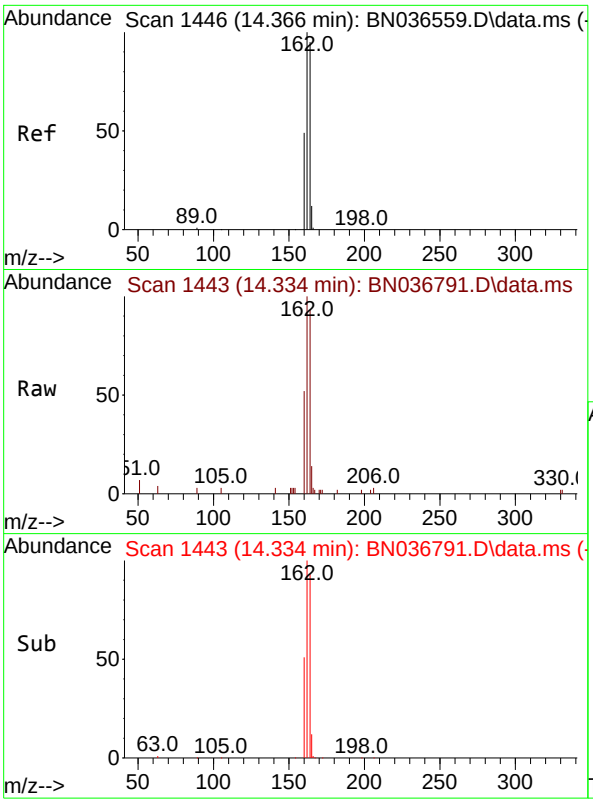


#12
2-Methylnaphthalene
Concen: 0.362 ng
RT: 12.151 min Scan# 1150
Delta R.T. -0.030 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:142 Resp: 3044

Ion	Ratio	Lower	Upper
142	100		
141	90.8	71.7	107.5
115	49.5	38.3	57.5

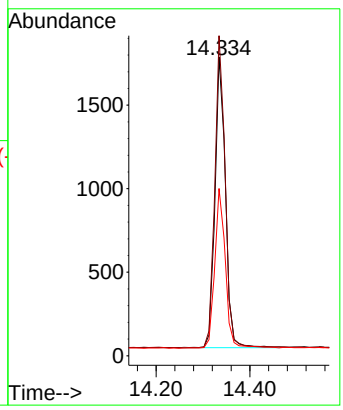




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:164 Resp: 270

Ion	Ratio	Lower	Upper
164	100		
162	107.1	84.2	126.2
160	56.0	42.2	63.2



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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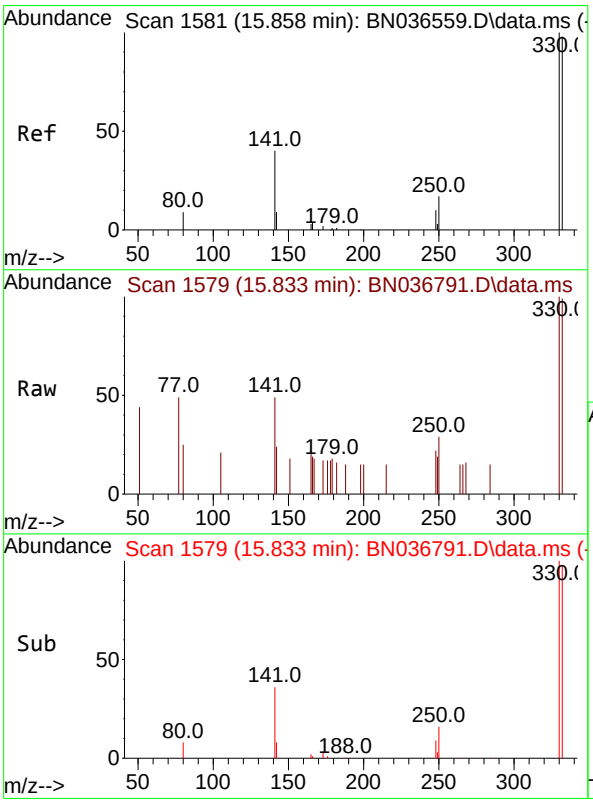
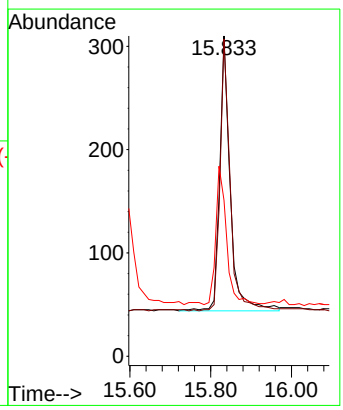
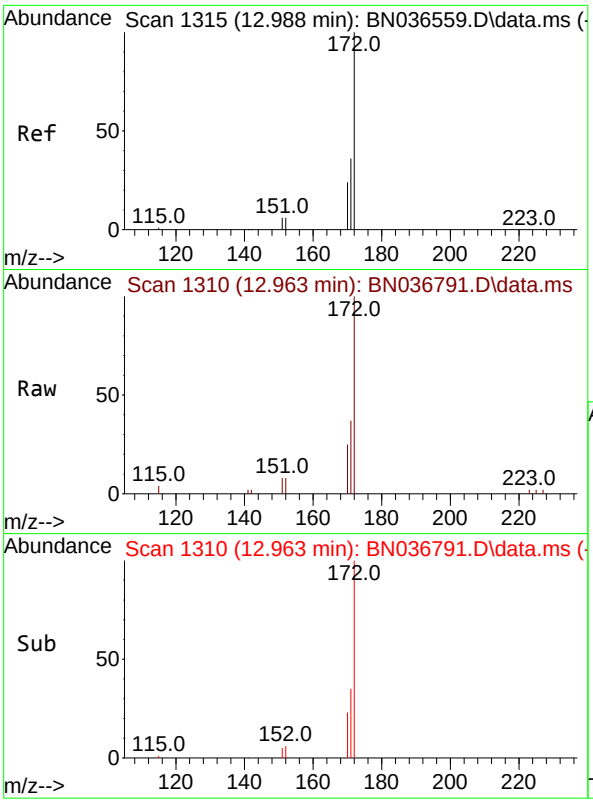


#14
2,4,6-Tribromophenol
Concen: 0.392 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.025 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:330 Resp: 481

Ion	Ratio	Lower	Upper
330	100		
332	94.4	75.2	112.8
141	51.4	43.4	65.2

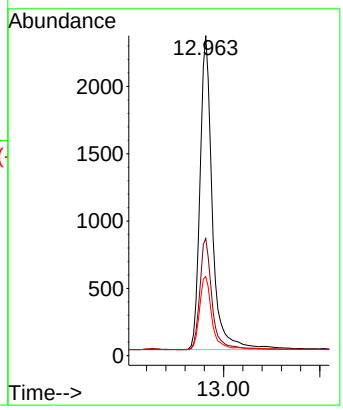




#15
2-Fluorobiphenyl
Concen: 0.351 ng
RT: 12.963 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:172 Resp: 551

Ion	Ratio	Lower	Upper
172	100		
171	36.6	29.5	44.3
170	24.7	20.2	30.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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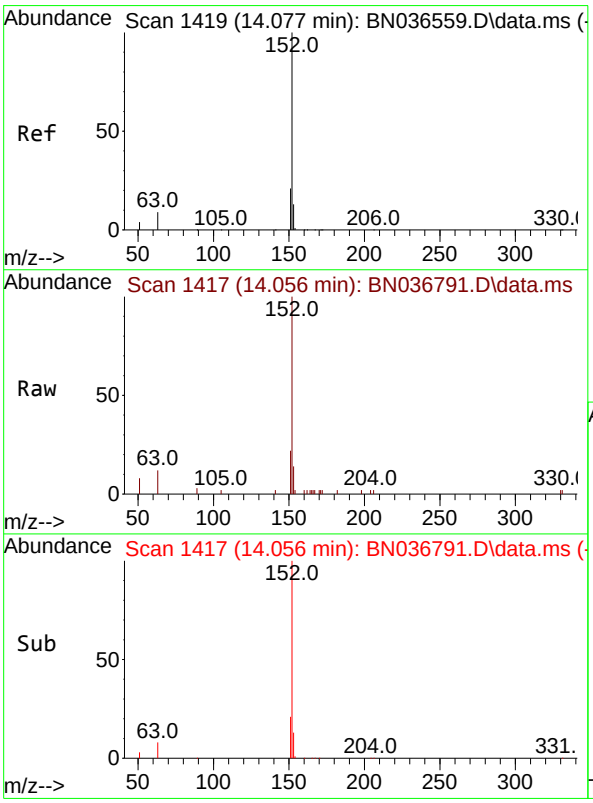
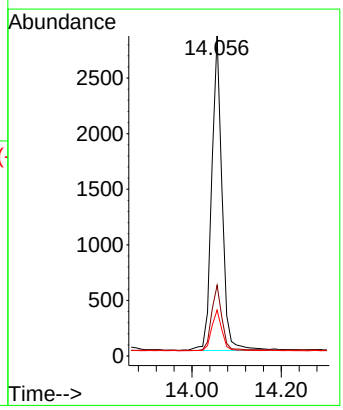
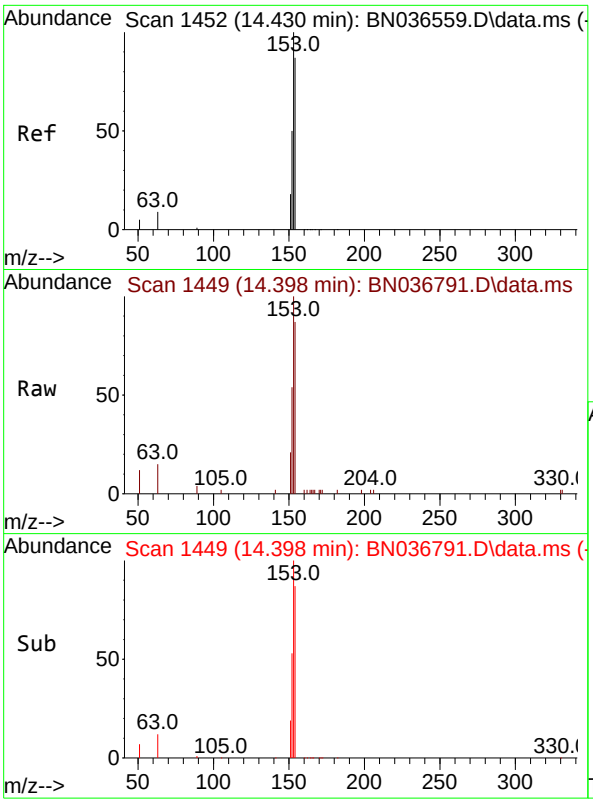


#16
Acenaphthylene
Concen: 0.356 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.021 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:152 Resp: 4532

Ion	Ratio	Lower	Upper
152	100		
151	21.1	16.2	24.4
153	13.0	10.6	15.8

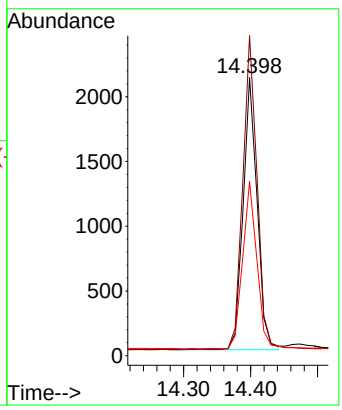




#17
Acenaphthene
Concen: 0.367 ng
RT: 14.398 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:154 Resp: 3064

Ion	Ratio	Lower	Upper
154	100		
153	118.0	94.1	141.1
152	62.9	49.8	74.6



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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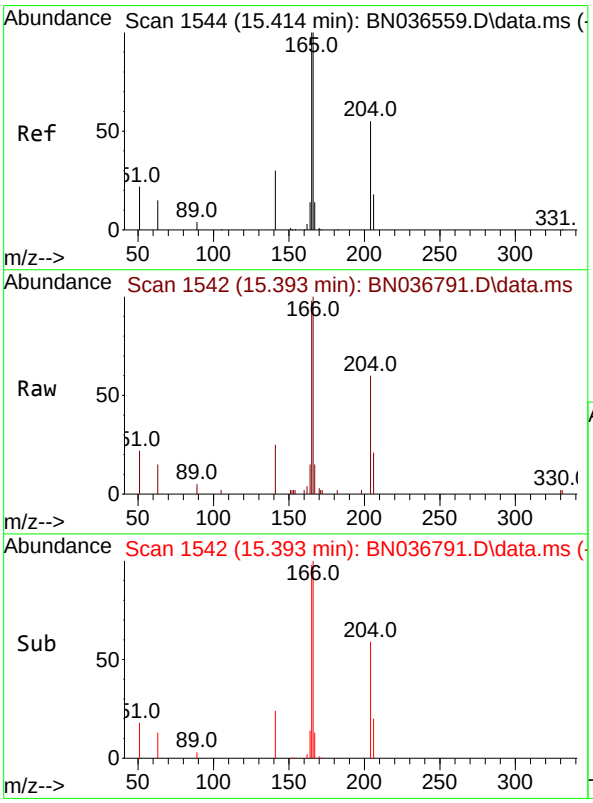
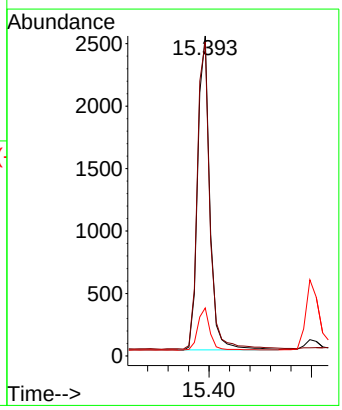
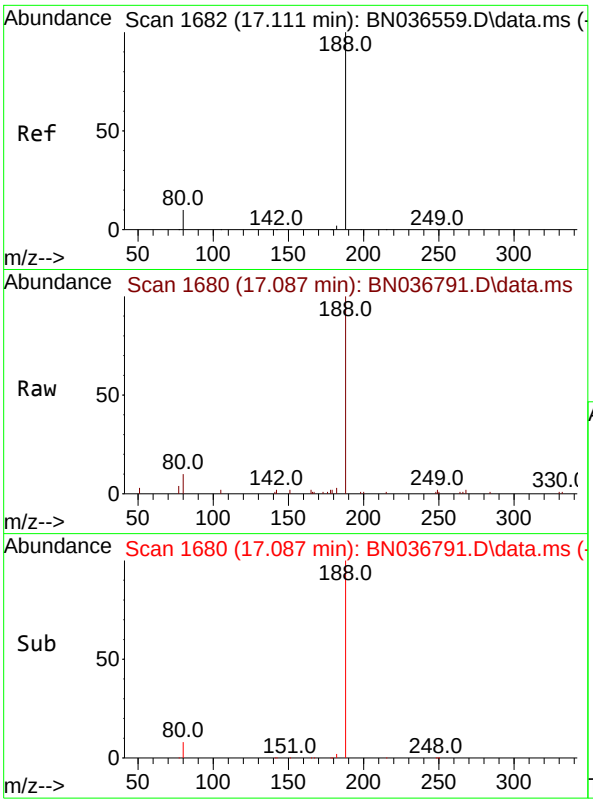


#18
Fluorene
Concen: 0.373 ng
RT: 15.393 min Scan# 1542
Delta R.T. -0.021 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:166 Resp: 4209

Ion	Ratio	Lower	Upper
166	100		
165	101.0	79.8	119.8
167	13.4	10.6	15.8

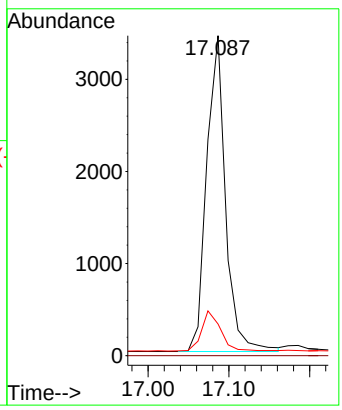




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.087 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:188 Resp: 557

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.9	8.8	13.2



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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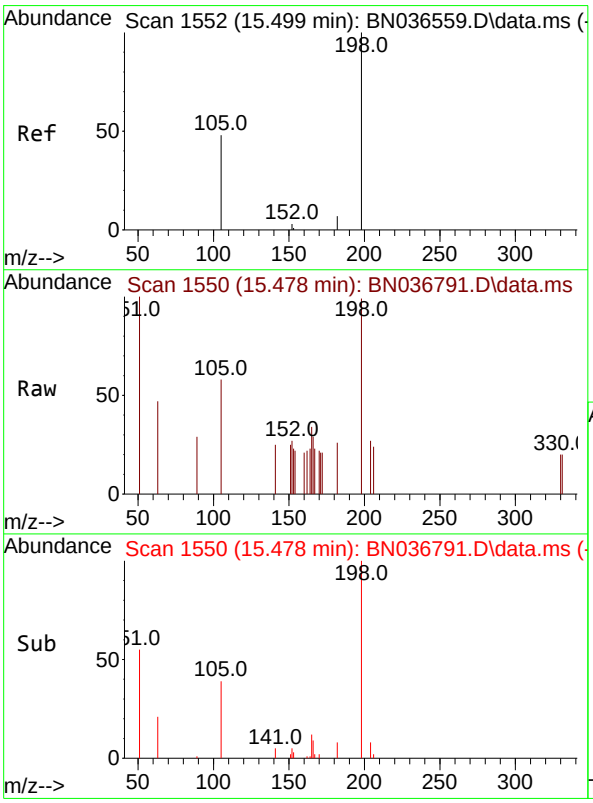
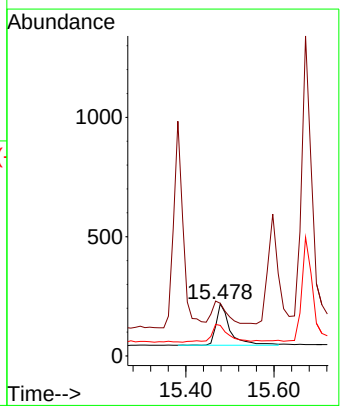
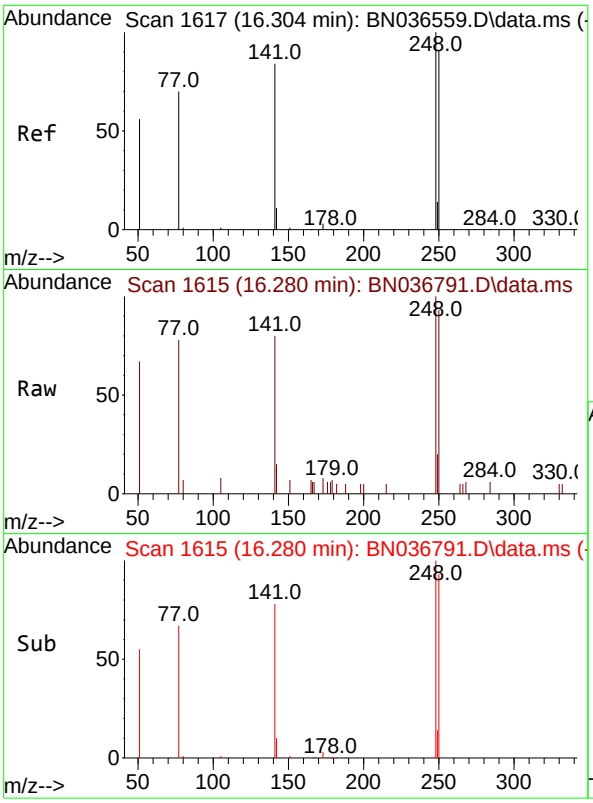


#20
4,6-Dinitro-2-methylphenol
Concen: 0.423 ng
RT: 15.478 min Scan# 1550
Delta R.T. -0.021 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:198 Resp: 395

Ion	Ratio	Lower	Upper
198	100		
51	100.9	107.9	161.9#
105	58.4	56.2	84.2





#21
4-Bromophenyl-phenylether
Concen: 0.388 ng
RT: 16.280 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:248 Resp: 135

Ion	Ratio	Lower	Upper
248	100		
250	93.4	73.0	109.6
141	80.0	68.6	103.0

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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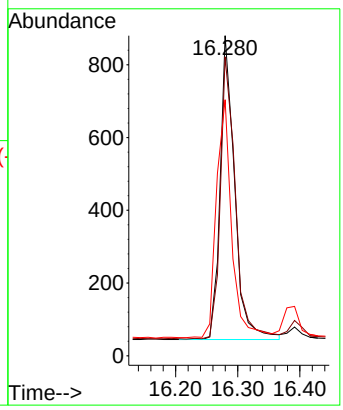
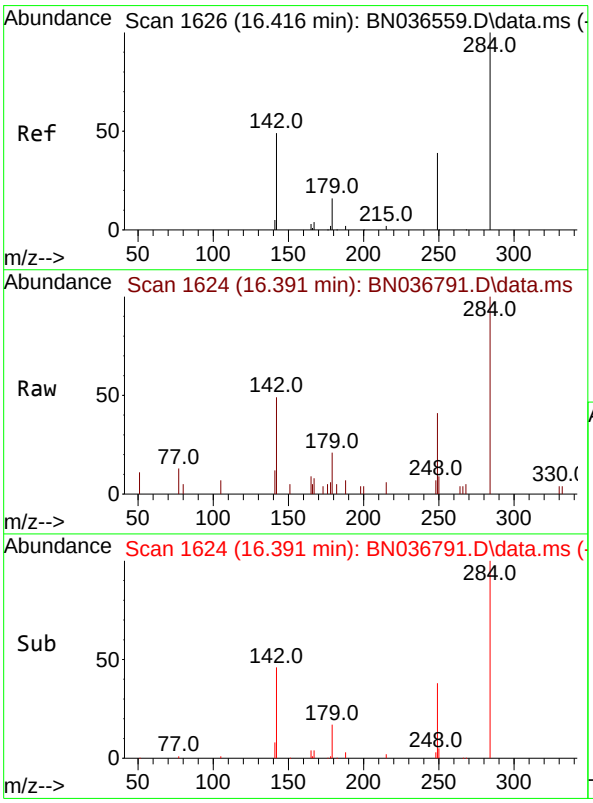
Supervised By :Jagrut Upadhyay 03/31/2025

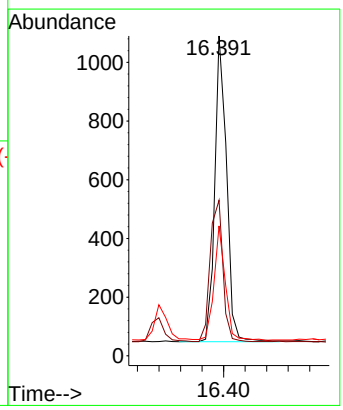


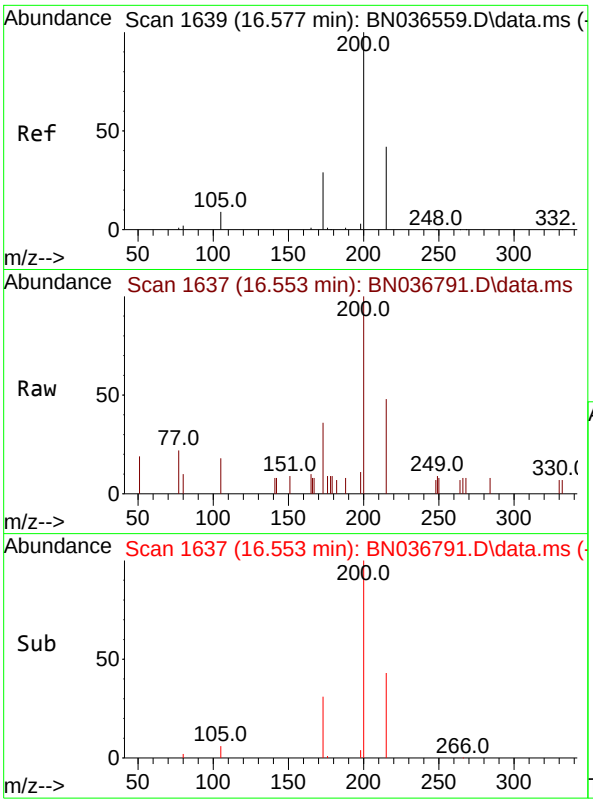


#22
Hexachlorobenzene
Concen: 0.375 ng
RT: 16.391 min Scan# 1624
Delta R.T. -0.025 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:284 Resp: 1582

Ion	Ratio	Lower	Upper
284	100		
142	49.7	37.0	55.4
249	35.6	28.1	42.1

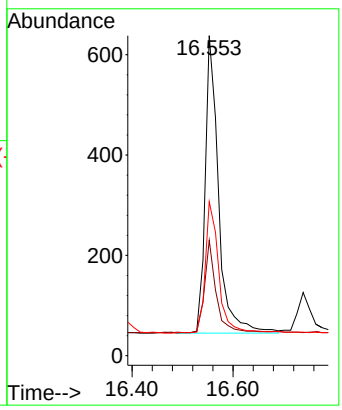




#23
Atrazine
Concen: 0.389 ng
RT: 16.553 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:200 Resp: 109(

Ion	Ratio	Lower	Upper
200	100		
173	36.1	27.3	40.9
215	48.1	36.8	55.2



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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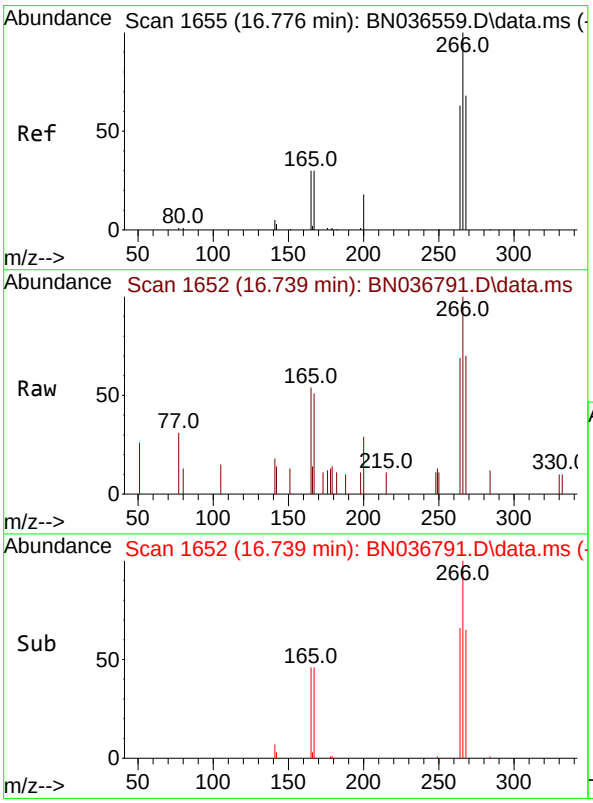
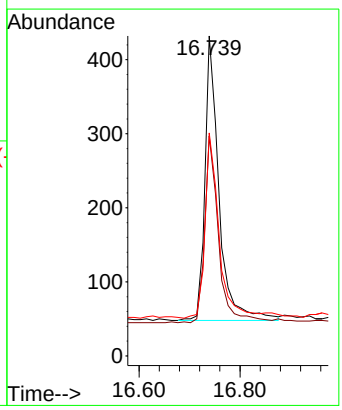
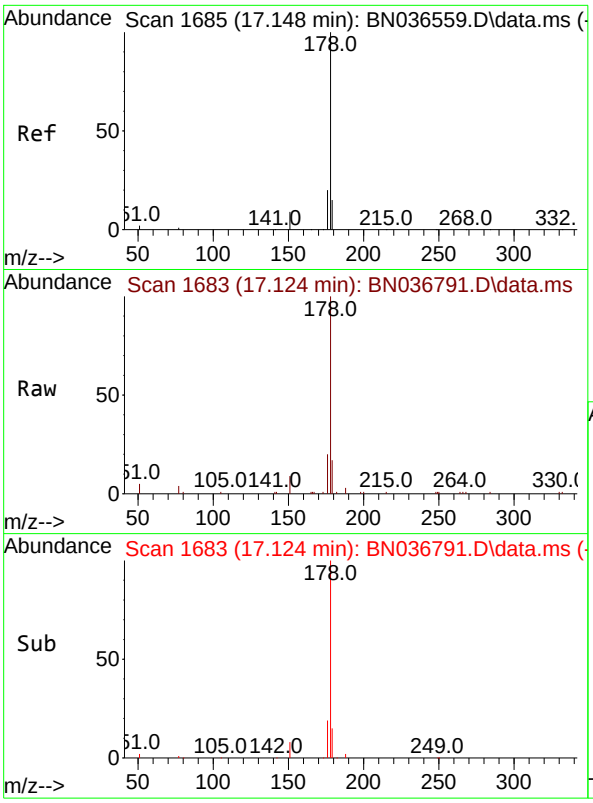


#24
Pentachlorophenol
Concen: 0.385 ng
RT: 16.739 min Scan# 1652
Delta R.T. -0.037 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:266 Resp: 740

Ion	Ratio	Lower	Upper
266	100		
264	64.5	49.6	74.4
268	64.9	50.9	76.3

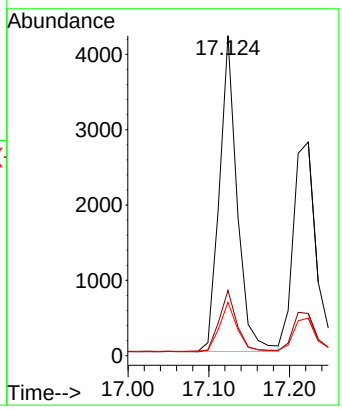




#25
Phenanthrene
Concen: 0.384 ng
RT: 17.124 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:178 Resp: 641(

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.9	23.9
179	16.0	12.2	18.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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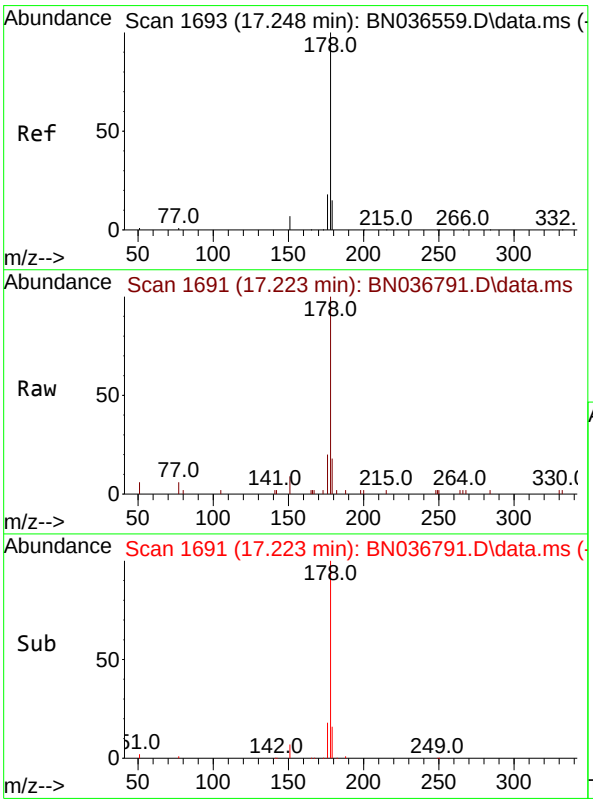
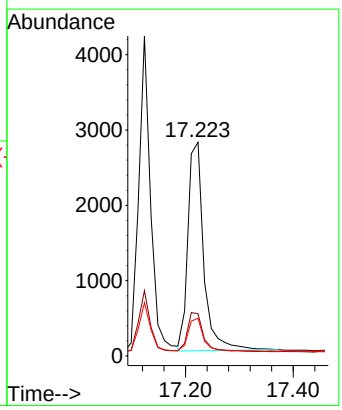
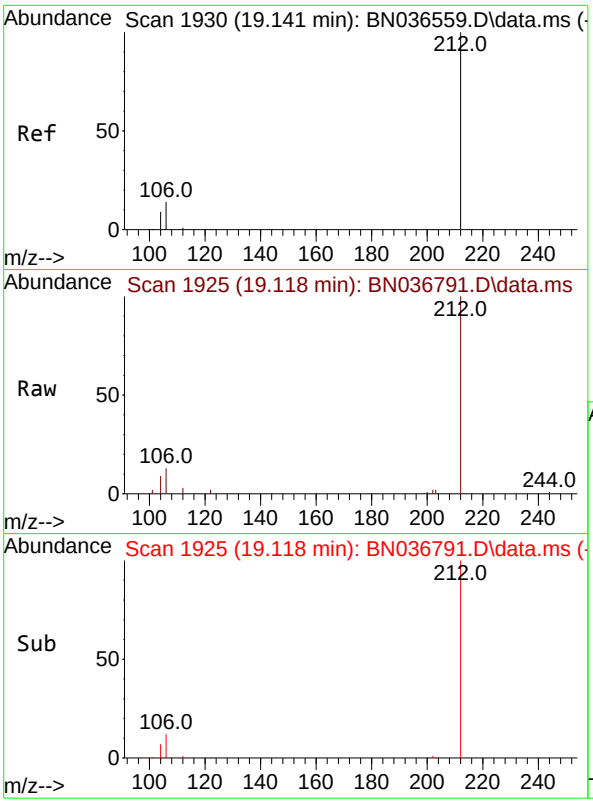


#26
Anthracene
Concen: 0.376 ng
RT: 17.223 min Scan# 1691
Delta R.T. -0.025 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:178 Resp: 5669

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.4	23.2
179	15.5	12.6	18.8

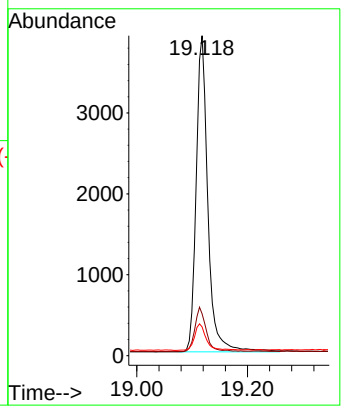




#27
Fluoranthene-d10
Concen: 0.403 ng
RT: 19.118 min Scan# 1
Delta R.T. -0.023 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:212 Resp: 575

Ion	Ratio	Lower	Upper
212	100		
106	13.2	11.8	17.6
104	8.6	7.3	10.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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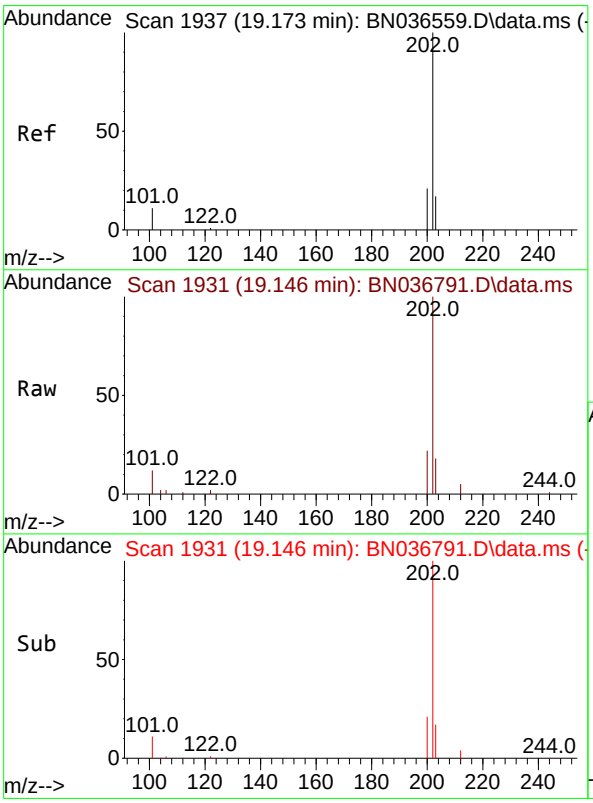
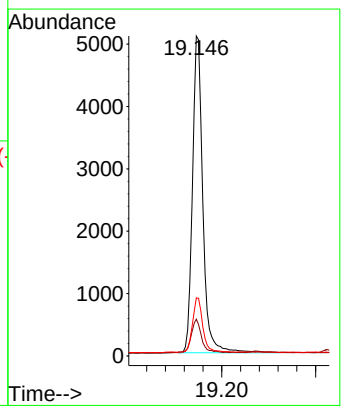
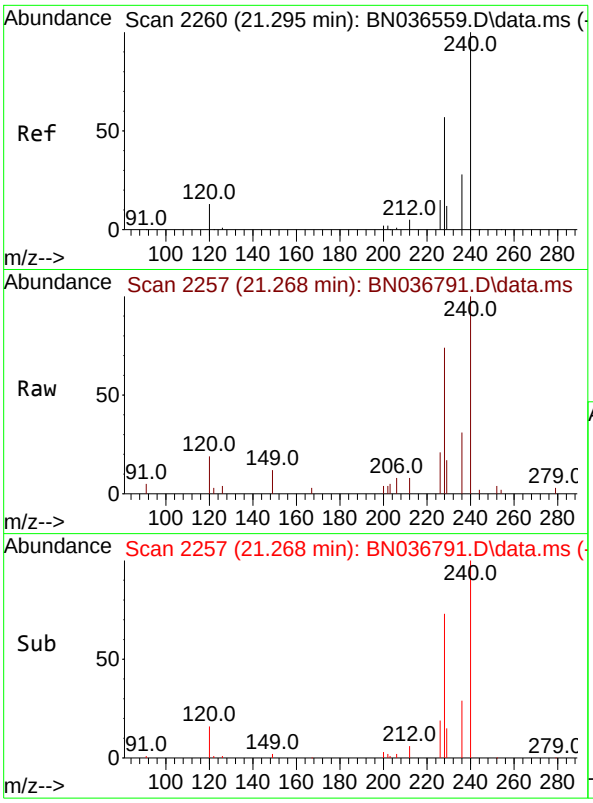


#28
Fluoranthene
Concen: 0.415 ng
RT: 19.146 min Scan# 1931
Delta R.T. -0.028 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:202 Resp: 7784

Ion	Ratio	Lower	Upper
202	100		
101	10.4	9.4	14.0
203	16.9	13.5	20.3





#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.268 min Scan# 2
Delta R.T. -0.027 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

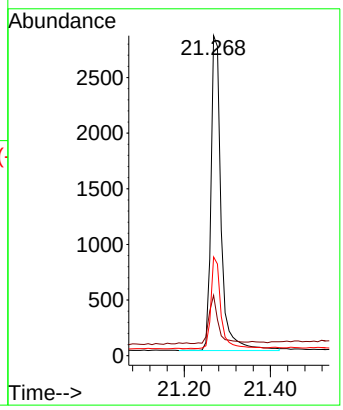
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

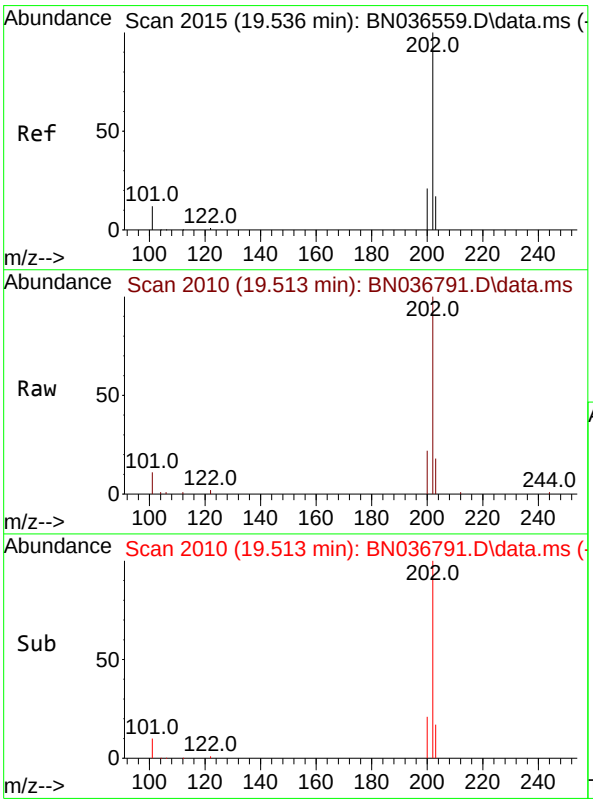
Tgt Ion:240 Resp: 463

Ion	Ratio	Lower	Upper
240	100		
120	18.8	14.6	22.0
236	30.8	24.1	36.1

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

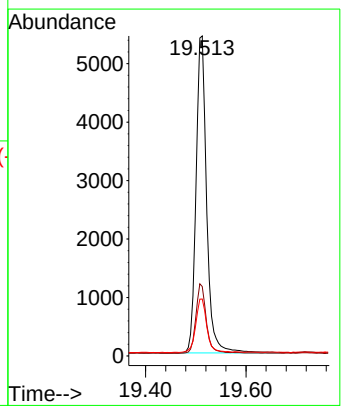


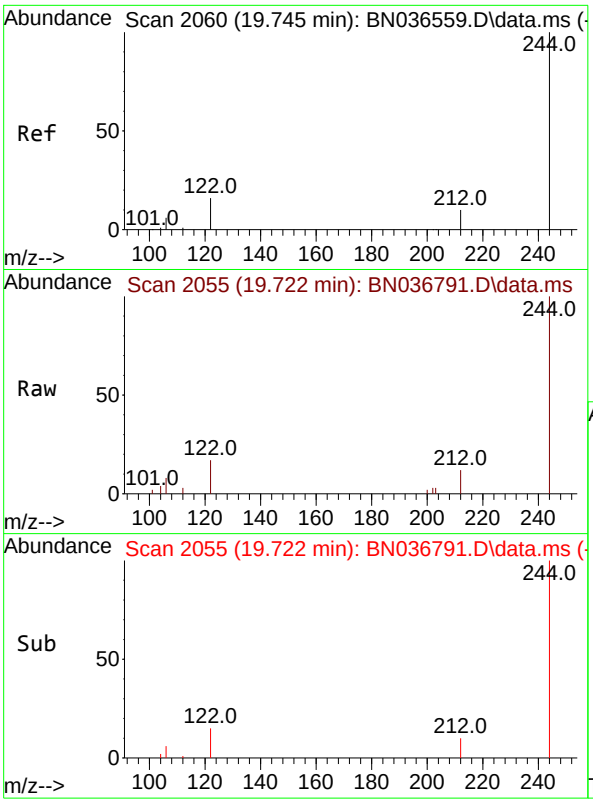


#30
Pyrene
Concen: 0.351 ng
RT: 19.513 min Scan# 2010
Delta R.T. -0.023 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:202 Resp: 7947

Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.1	25.7
203	17.5	14.1	21.1





#31
Terphenyl-d14
Concen: 0.326 ng
RT: 19.722 min Scan# 2
Delta R.T. -0.023 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

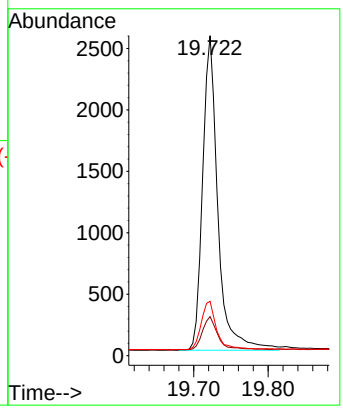
Tgt Ion:244 Resp: 362

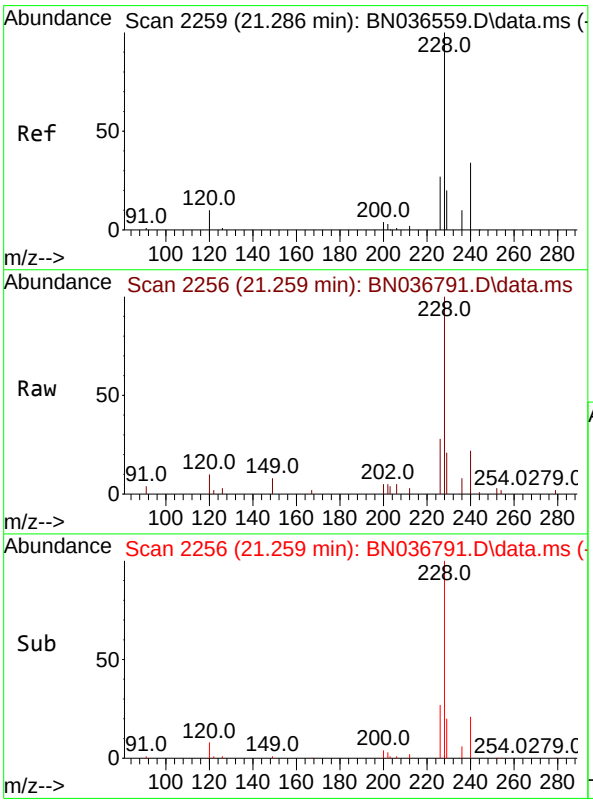
Ion	Ratio	Lower	Upper
244	100		
212	12.2	9.6	14.4
122	17.0	13.9	20.9

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

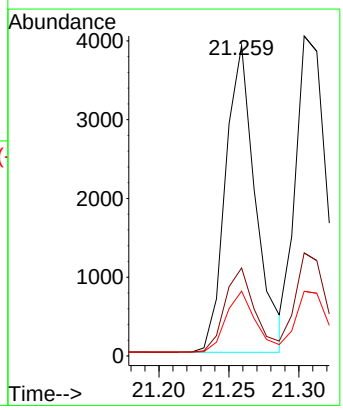


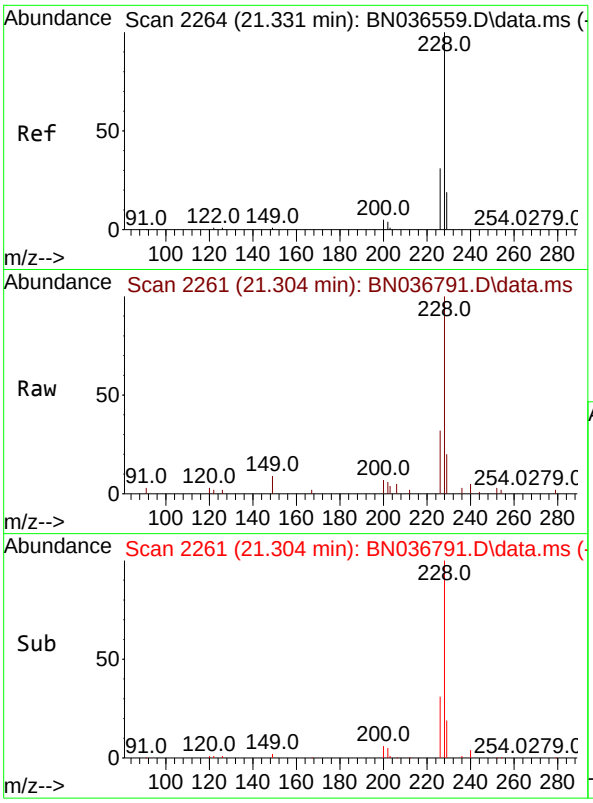


#32
Benzo(a)anthracene
Concen: 0.363 ng
RT: 21.259 min Scan# 2256
Delta R.T. -0.027 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:228 Resp: 5842

Ion	Ratio	Lower	Upper
228	100		
226	28.3	22.5	33.7
229	20.9	16.6	25.0

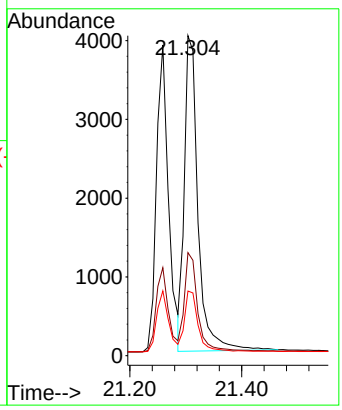




#33
Chrysene
Concen: 0.385 ng
RT: 21.304 min Scan# 2
Delta R.T. -0.027 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:228 Resp: 678

Ion	Ratio	Lower	Upper
228	100		
226	32.2	25.3	37.9
229	20.2	15.8	23.8



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
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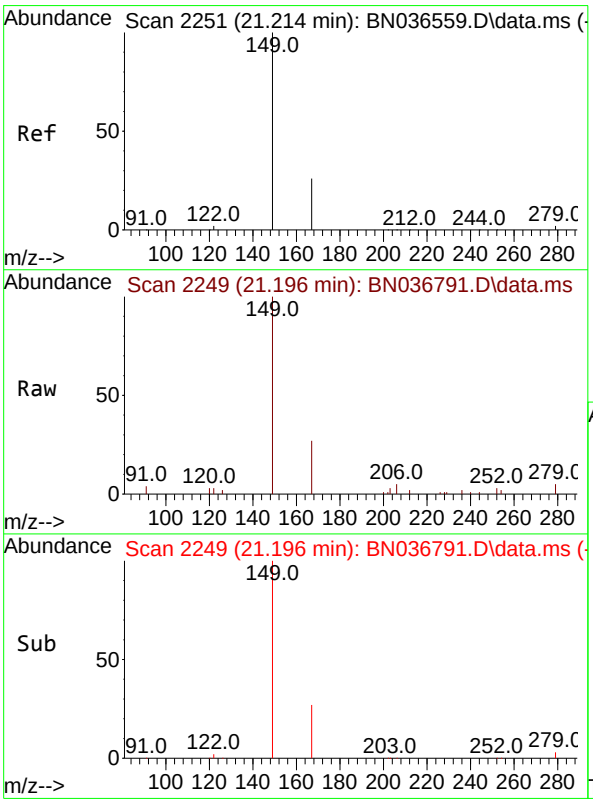
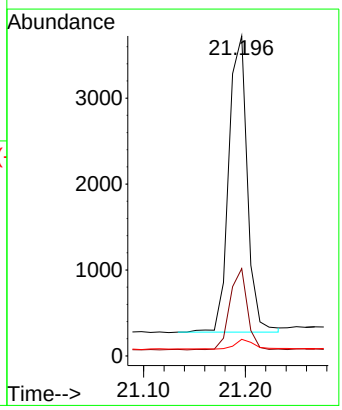
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

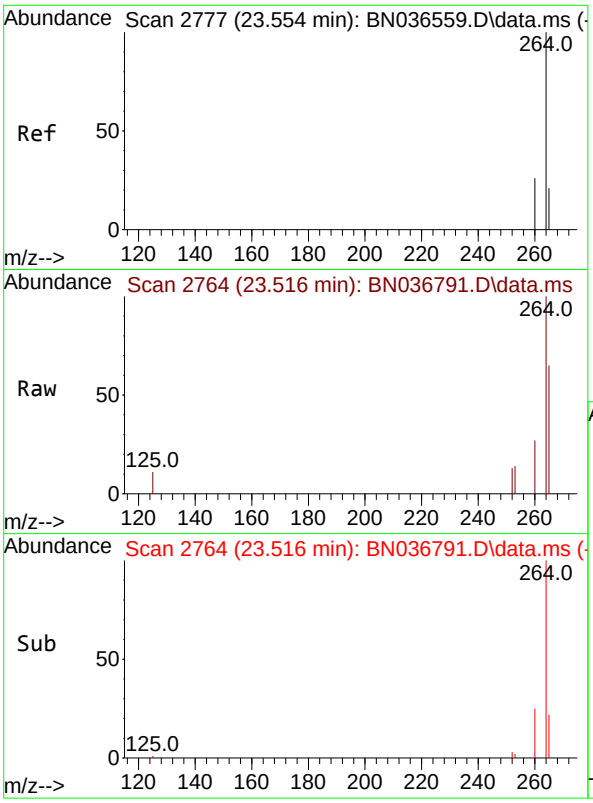


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.380 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:149 Resp: 4355

Ion	Ratio	Lower	Upper
149	100		
167	25.9	20.7	31.1
279	3.3	3.6	5.4#

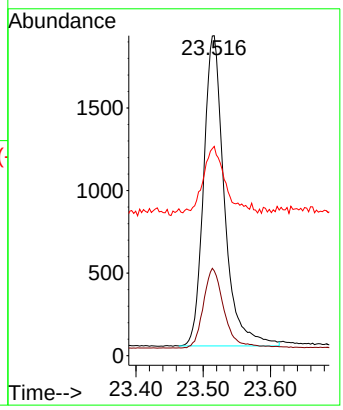




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.516 min Scan# 2
Delta R.T. -0.038 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:264 Resp: 403

Ion	Ratio	Lower	Upper
264	100		
260	26.5	22.6	33.8
265	65.4	88.1	132.1#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
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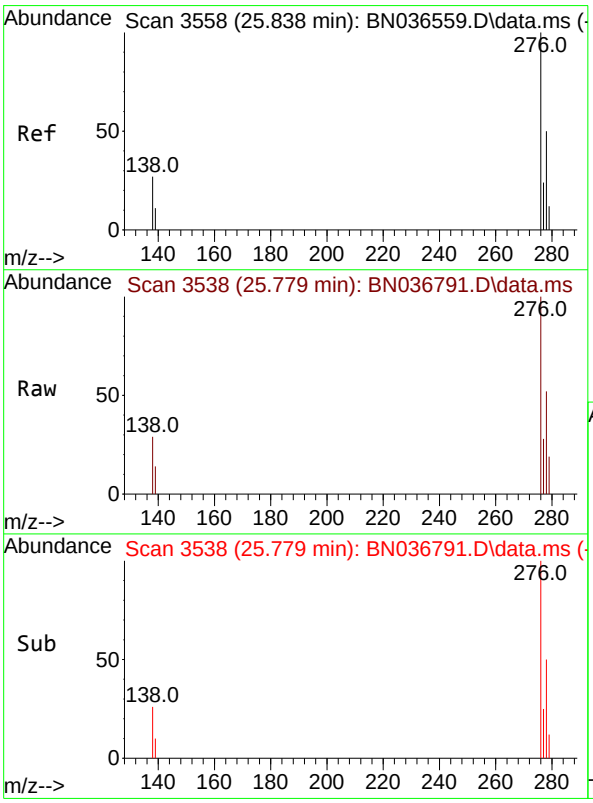
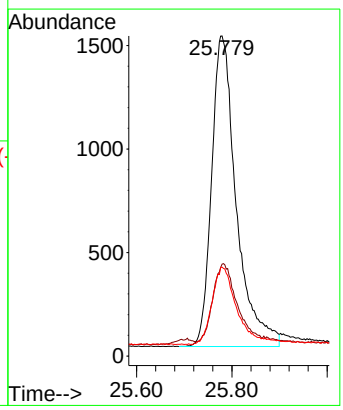
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

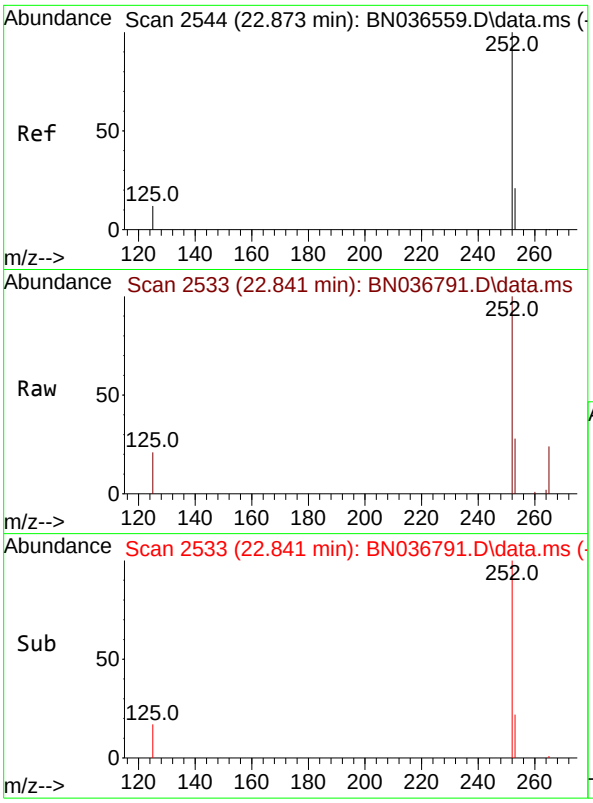


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.372 ng
RT: 25.779 min Scan# 3538
Delta R.T. -0.058 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:276 Resp: 5407

Ion	Ratio	Lower	Upper
276	100		
138	24.1	23.4	35.2
277	25.4	20.0	30.0

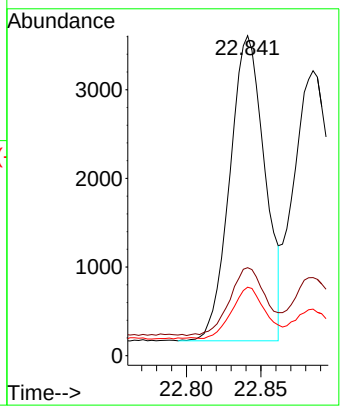




#37
Benzo(b)fluoranthene
Concen: 0.383 ng
RT: 22.841 min Scan# 2
Delta R.T. -0.032 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:252 Resp: 562

Ion	Ratio	Lower	Upper
252	100		
253	27.5	23.9	35.9
125	21.4	17.4	26.2



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
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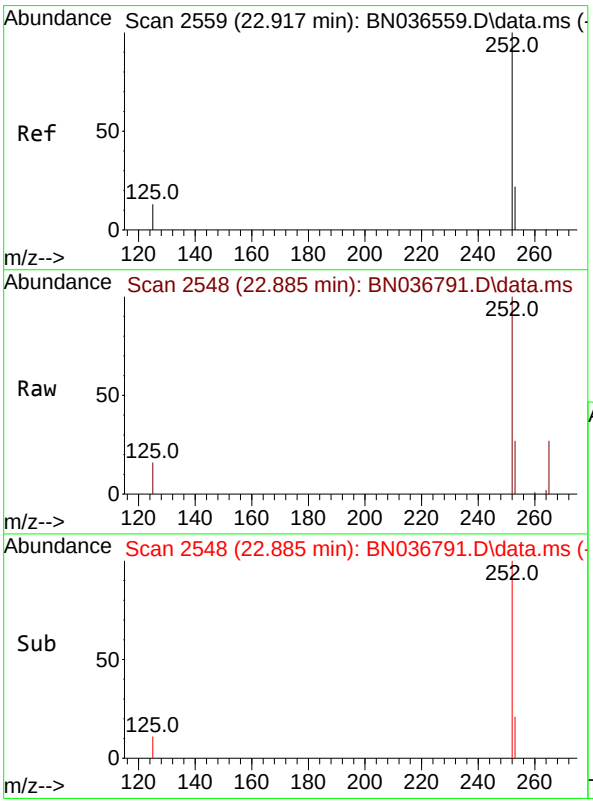
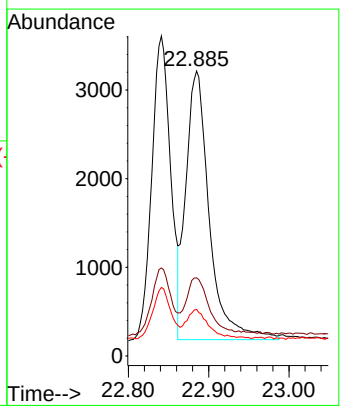
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

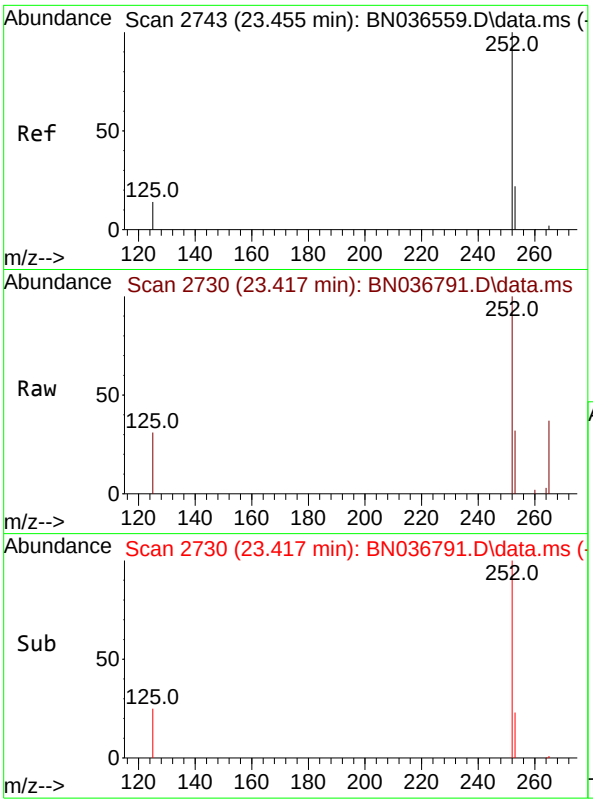


#38
Benzo(k)fluoranthene
Concen: 0.400 ng m
RT: 22.885 min Scan# 2548
Delta R.T. -0.032 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:252 Resp: 6157

Ion	Ratio	Lower	Upper
252	100		
253	27.4	24.6	36.8
125	16.4	17.8	26.8#

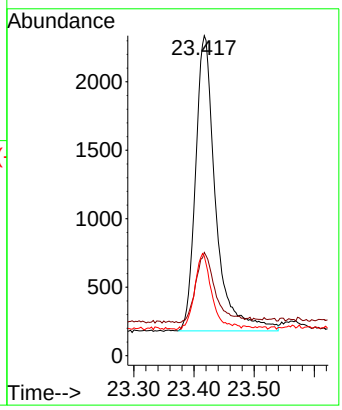




#39
Benzo(a)pyrene
Concen: 0.404 ng
RT: 23.417 min Scan# 2
Delta R.T. -0.038 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:252 Resp: 499

Ion	Ratio	Lower	Upper
252	100		
253	32.3	27.8	41.8
125	31.1	22.7	34.1



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
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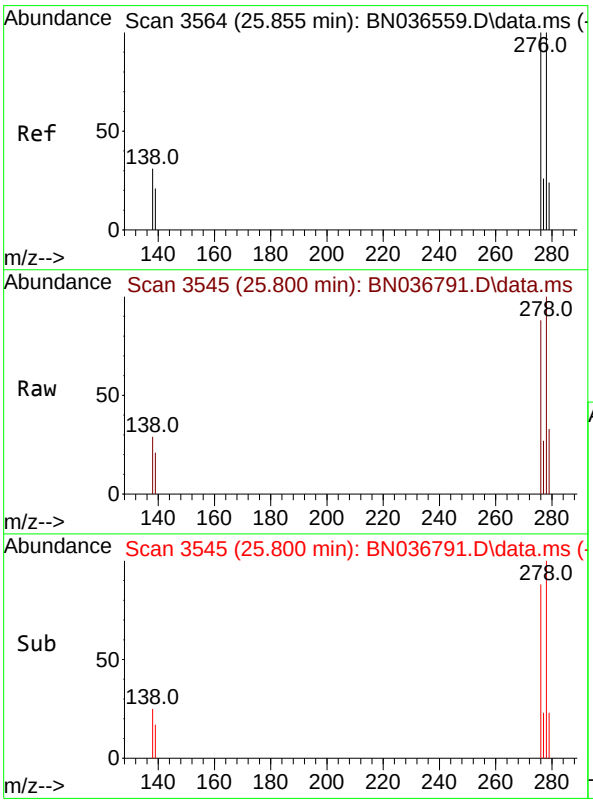
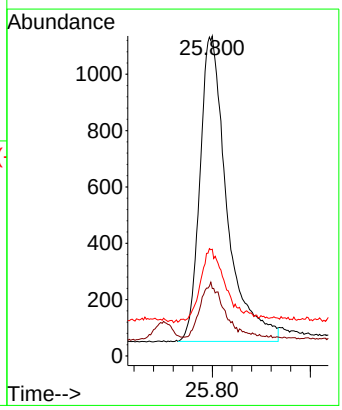
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

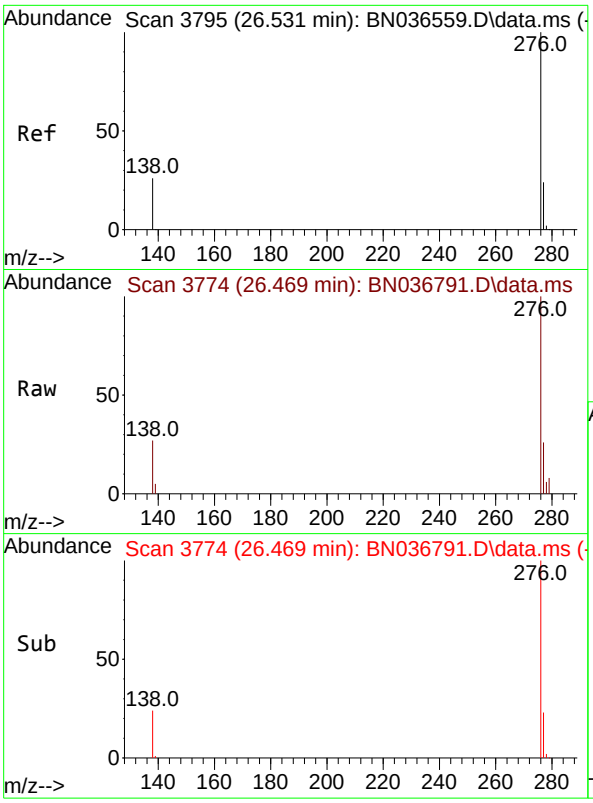


#40
Dibenzo(a,h)anthracene
Concen: 0.366 ng
RT: 25.800 min Scan# 3545
Delta R.T. -0.055 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:278 Resp: 4150

Ion	Ratio	Lower	Upper
278	100		
139	21.1	20.8	31.2
279	33.4	28.8	43.2

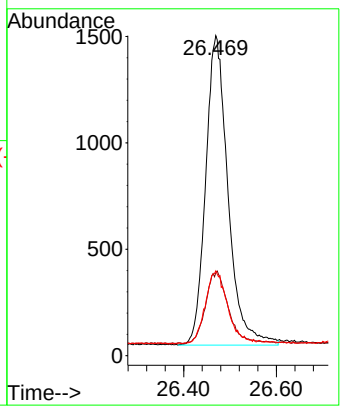




#41
Benzo(g,h,i)perylene
Concen: 0.376 ng
RT: 26.469 min Scan# 3
Delta R.T. -0.061 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:276 Resp: 487

Ion	Ratio	Lower	Upper
276	100		
277	25.9	22.2	33.4
138	26.5	24.1	36.1



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
Data File : BN036791.D
Acq On : 29 Mar 2025 02:44
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Mar 29 04:28:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 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	83	-0.03
2		1,4-Dioxane	0.444	0.453	-2.0	75	-0.01
3		n-Nitrosodimethylamine	0.898	0.962	-7.1	85	0.00
4	S	2-Fluorophenol	0.932	0.833	10.6	70	-0.02
5	S	Phenol-d6	1.152	1.007	12.6	74	-0.03
6		bis(2-Chloroethyl)ether	1.190	1.030	13.4	72	-0.03
7	I	Naphthalene-d8	1.000	1.000	0.0	88	-0.03
8	S	Nitrobenzene-d5	0.435	0.376	13.6	80	-0.03
9		Naphthalene	1.177	1.056	10.3	77	-0.03
10		Hexachlorobutadiene	0.277	0.258	6.9	77	-0.03
11	SURR	2-Methylnaphthalene-d10	0.595	0.526	11.6	77	-0.04
12		2-Methylnaphthalene	0.749	0.678	9.5	78	-0.03
13	I	Acenaphthene-d10	1.000	1.000	0.0	89	-0.03
14	S	2,4,6-Tribromophenol	0.182	0.178	2.2	85	-0.02
15	S	2-Fluorobiphenyl	2.327	2.041	12.3	76	-0.03
16		Acenaphthylene	1.888	1.678	11.1	77	-0.02
17		Acenaphthene	1.236	1.134	8.3	79	-0.03
18		Fluorene	1.672	1.558	6.8	79	-0.02
19	I	Phenanthrene-d10	1.000	1.000	0.0	93	-0.02
20		4,6-Dinitro-2-methylphenol	0.086	0.071	17.4	85	-0.02
21		4-Bromophenyl-phenylether	0.251	0.243	3.2	82	-0.02
22		Hexachlorobenzene	0.303	0.284	6.3	78	-0.02
23		Atrazine	0.201	0.196	2.5	85	-0.02
24		Pentachlorophenol	0.138	0.133	3.6	90	-0.04
25		Phenanthrene	1.200	1.152	4.0	82	-0.02
26		Anthracene	1.083	1.018	6.0	82	-0.02
27	SURR	Fluoranthene-d10	1.025	1.032	-0.7	86	-0.02
28		Fluoranthene	1.348	1.397	-3.6	89	-0.03
29	I	Chrysene-d12	1.000	1.000	0.0	113	-0.03
30		Pyrene	1.956	1.715	12.3	91	-0.02
31	S	Terphenyl-d14	0.958	0.782	18.4	86	-0.02
32		Benzo(a)anthracene	1.391	1.261	9.3	99	-0.03
33		Chrysene	1.520	1.463	3.7	102	-0.03
34		Bis(2-ethylhexyl)phthalate	0.990	0.940	5.1	101	-0.02
35	I	Perylene-d12	1.000	1.000	0.0	114	-0.04
36		Indeno(1,2,3-cd)pyrene	1.444	1.341	7.1	99	-0.06
37		Benzo(b)fluoranthene	1.456	1.396	4.1	103	-0.03
38		Benzo(k)fluoranthene	1.527	1.527	0.0	107	-0.03
39	C	Benzo(a)pyrene	1.226	1.238	-1.0	108	-0.04
40		Dibenzo(a,h)anthracene	1.124	1.029	8.5	101	-0.06
41		Benzo(g,h,i)perylene	1.286	1.209	6.0	100	-0.06

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
Data File : BN036791.D
Acq On : 29 Mar 2025 02:44
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Mar 29 04:28:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 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	83	-0.03
2		1,4-Dioxane	0.400	0.408	-2.0	75	-0.01
3		n-Nitrosodimethylamine	0.400	0.429	-7.2	85	0.00
4	S	2-Fluorophenol	0.400	0.357	10.8	70	-0.02
5	S	Phenol-d6	0.400	0.350	12.5	74	-0.03
6		bis(2-Chloroethyl)ether	0.400	0.346	13.5	72	-0.03
7	I	Naphthalene-d8	0.400	0.400	0.0	88	-0.03
8	S	Nitrobenzene-d5	0.400	0.346	13.5	80	-0.03
9		Naphthalene	0.400	0.359	10.3	77	-0.03
10		Hexachlorobutadiene	0.400	0.373	6.8	77	-0.03
11	SURR	2-Methylnaphthalene-d10	0.400	0.354	11.5	77	-0.04
12		2-Methylnaphthalene	0.400	0.362	9.5	78	-0.03
13	I	Acenaphthene-d10	0.400	0.400	0.0	89	-0.03
14	S	2,4,6-Tribromophenol	0.400	0.392	2.0	85	-0.02
15	S	2-Fluorobiphenyl	0.400	0.351	12.3	76	-0.03
16		Acenaphthylene	0.400	0.356	11.0	77	-0.02
17		Acenaphthene	0.400	0.367	8.3	79	-0.03
18		Fluorene	0.400	0.373	6.8	79	-0.02
19	I	Phenanthrene-d10	0.400	0.400	0.0	93	-0.02
20		4,6-Dinitro-2-methylphenol	0.400	0.423	-5.7	85	-0.02
21		4-Bromophenyl-phenylether	0.400	0.388	3.0	82	-0.02
22		Hexachlorobenzene	0.400	0.375	6.3	78	-0.02
23		Atrazine	0.400	0.389	2.8	85	-0.02
24		Pentachlorophenol	0.400	0.385	3.8	90	-0.04
25		Phenanthrene	0.400	0.384	4.0	82	-0.02
26		Anthracene	0.400	0.376	6.0	82	-0.02
27	SURR	Fluoranthene-d10	0.400	0.403	-0.8	86	-0.02
28		Fluoranthene	0.400	0.415	-3.7	89	-0.03
29	I	Chrysene-d12	0.400	0.400	0.0	113	-0.03
30		Pyrene	0.400	0.351	12.3	91	-0.02
31	S	Terphenyl-d14	0.400	0.326	18.5	86	-0.02
32		Benzo(a)anthracene	0.400	0.363	9.3	99	-0.03
33		Chrysene	0.400	0.385	3.8	102	-0.03
34		Bis(2-ethylhexyl)phthalate	0.400	0.380	5.0	101	-0.02
35	I	Perylene-d12	0.400	0.400	0.0	114	-0.04
36		Indeno(1,2,3-cd)pyrene	0.400	0.372	7.0	99	-0.06
37		Benzo(b)fluoranthene	0.400	0.383	4.3	103	-0.03
38		Benzo(k)fluoranthene	0.400	0.400	0.0	107	-0.03
39	C	Benzo(a)pyrene	0.400	0.404	-1.0	108	-0.04
40		Dibenzo(a,h)anthracene	0.400	0.366	8.5	101	-0.06
41		Benzo(g,h,i)perylene	0.400	0.376	6.0	100	-0.06

(#) = 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: TETR06

Lab Code: CHEM Case No.: Q1621 SAS No.: Q1621 SDG No.: Q1621

Instrument ID: BNA_N Calibration Date/Time: 03/29/2025 12:21

Lab File ID: BN036807.D Init. Calib. Date(s): 03/10/2025 03/10/2025

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 11:42 15:19

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.595	0.526		-11.6	50.0
Fluoranthene-d10	1.025	0.985		-3.9	50.0
2-Fluorophenol	0.932	0.835		-10.4	50.0
Phenol-d6	1.152	0.978		-15.1	50.0
Nitrobenzene-d5	0.435	0.364		-16.3	50.0
2-Fluorobiphenyl	2.327	1.915		-17.7	50.0
2,4,6-Tribromophenol	0.182	0.169		-7.1	50.0
Terphenyl-d14	0.958	0.875		-8.7	50.0
1,4-Dioxane	0.444	0.456		2.7	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
Data File : BN036807.D
Acq On : 29 Mar 2025 12:21
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 38 Sample Multiplier: 1

Quant Time: Mar 31 02:01:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.695	152	1976	0.400	ng	-0.03
7) Naphthalene-d8	10.477	136	4956	0.400	ng	-0.03
13) Acenaphthene-d10	14.334	164	3044	0.400	ng	-0.03
19) Phenanthrene-d10	17.086	188	6169	0.400	ng	#-0.02
29) Chrysene-d12	21.268	240	4366	0.400	ng	-0.03
35) Perylene-d12	23.516	264	3818	0.400	ng	#-0.04
System Monitoring Compounds						
4) 2-Fluorophenol	5.290	112	1649	0.358	ng	-0.02
5) Phenol-d6	6.865	99	1932	0.340	ng	-0.04
8) Nitrobenzene-d5	8.843	82	1802	0.334	ng	-0.03
11) 2-Methylnaphthalene-d10	12.075	152	2608	0.354	ng	-0.04
14) 2,4,6-Tribromophenol	15.833	330	513	0.371	ng	-0.02
15) 2-Fluorobiphenyl	12.958	172	5830	0.329	ng	-0.03
27) Fluoranthene-d10	19.118	212	6077	0.384	ng	-0.02
31) Terphenyl-d14	19.722	244	3821	0.365	ng	-0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	3.225	88	902	0.411	ng	97
3) n-Nitrosodimethylamine	3.535	42	1839	0.415	ng	92
6) bis(2-Chloroethyl)ether	7.125	93	1990	0.338	ng	99
9) Naphthalene	10.530	128	5183	0.356	ng	99
10) Hexachlorobutadiene	10.818	225	1228	0.358	ng	# 100
12) 2-Methylnaphthalene	12.151	142	3312	0.357	ng	98
16) Acenaphthylene	14.056	152	5001	0.348	ng	99
17) Acenaphthene	14.398	154	3395	0.361	ng	99
18) Fluorene	15.382	166	4624	0.364	ng	100
20) 4,6-Dinitro-2-methylph...	15.478	198	475	0.447	ng	# 73
21) 4-Bromophenyl-phenylether	16.280	248	1424	0.368	ng	93
22) Hexachlorobenzene	16.391	284	1729	0.371	ng	97
23) Atrazine	16.553	200	1168	0.377	ng	96
24) Pentachlorophenol	16.739	266	792	0.372	ng	99
25) Phenanthrene	17.124	178	6985	0.377	ng	100
26) Anthracene	17.211	178	6251	0.374	ng	98
28) Fluoranthene	19.146	202	8157	0.392	ng	98
30) Pyrene	19.508	202	8270	0.387	ng	100
32) Benzo(a)anthracene	21.259	228	5377	0.354	ng	100
33) Chrysene	21.304	228	6263	0.378	ng	99
34) Bis(2-ethylhexyl)phtha...	21.196	149	4162	0.385	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.779	276	5188	0.376	ng	93
37) Benzo(b)fluoranthene	22.841	252	5191	0.374	ng	98
38) Benzo(k)fluoranthene	22.885	252	5835m	0.400	ng	
39) Benzo(a)pyrene	23.417	252	4547	0.389	ng	96
40) Dibenzo(a,h)anthracene	25.800	278	4113m	0.383	ng	
41) Benzo(g,h,i)perylene	26.472	276	4558	0.371	ng	95

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

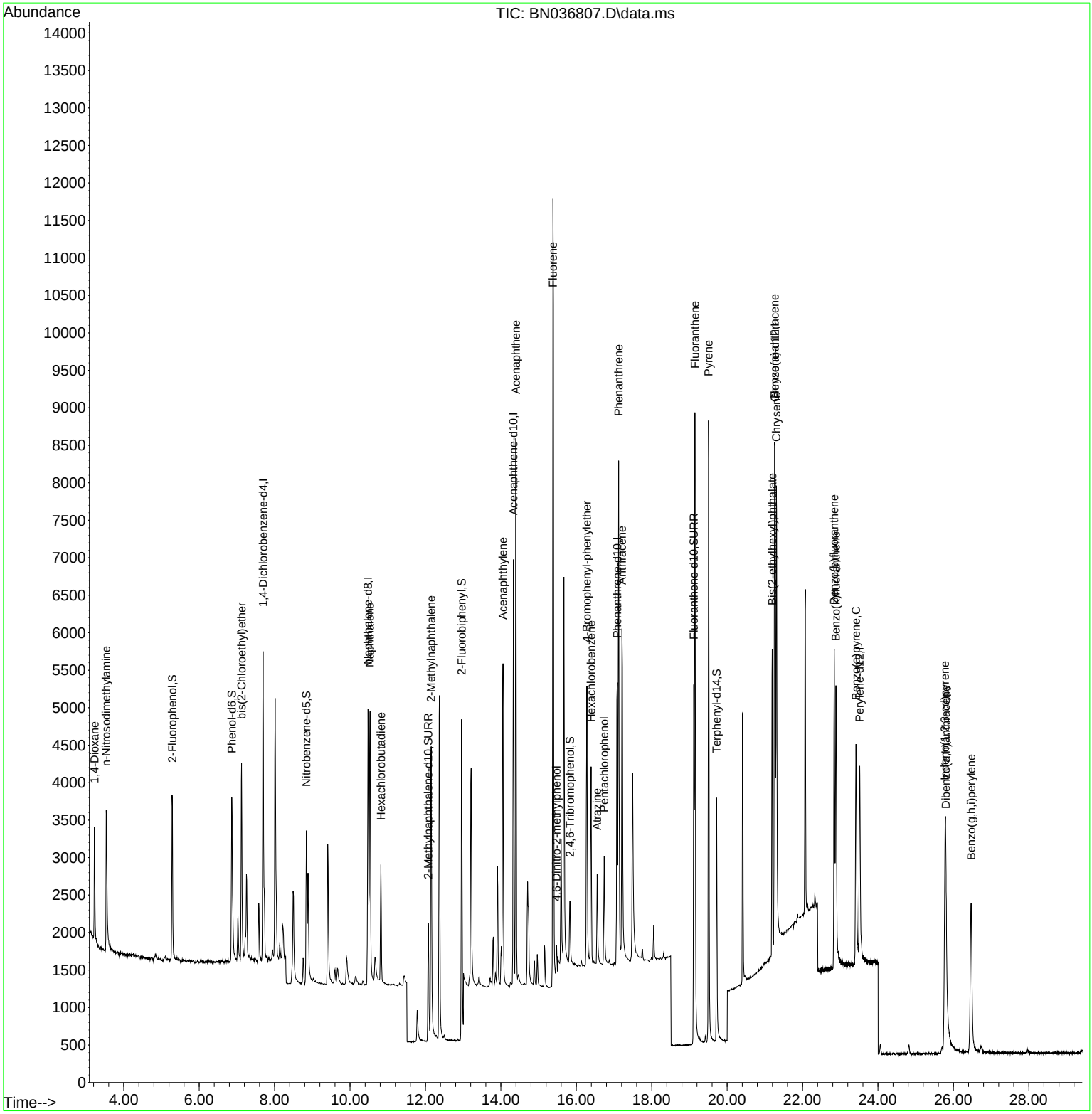
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
Data File : BN036807.D
Acq On : 29 Mar 2025 12:21
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 38 Sample Multiplier: 1

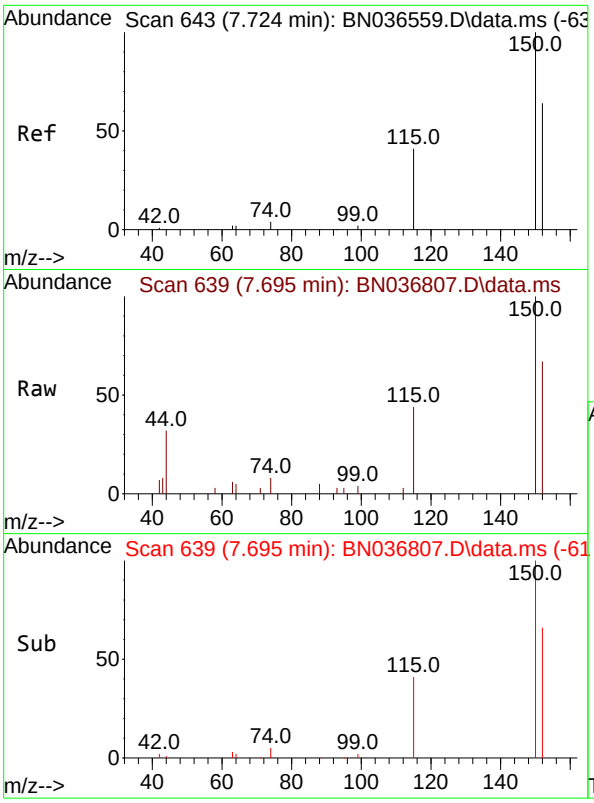
Quant Time: Mar 31 02:01:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

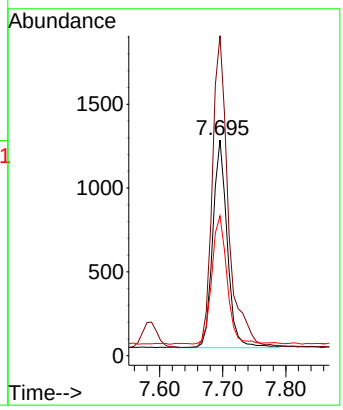




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.695 min Scan# 6
Delta R.T. -0.029 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:152 Resp: 197

Ion	Ratio	Lower	Upper
152	100		
150	148.3	123.7	185.5
115	64.8	54.3	81.5



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
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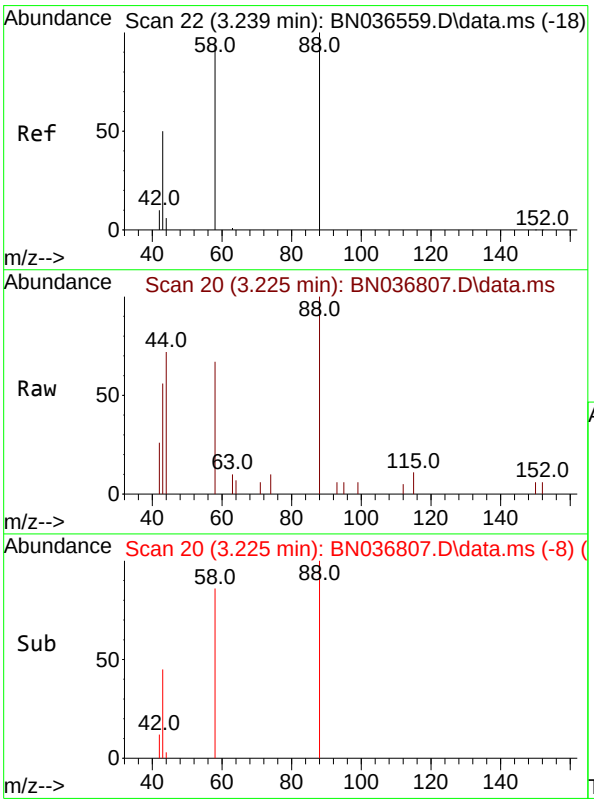
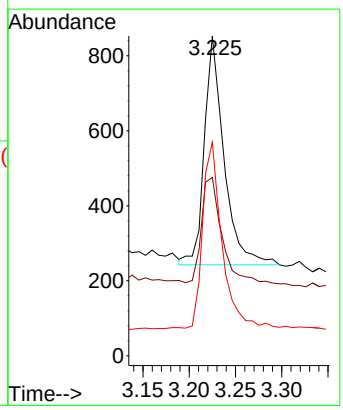
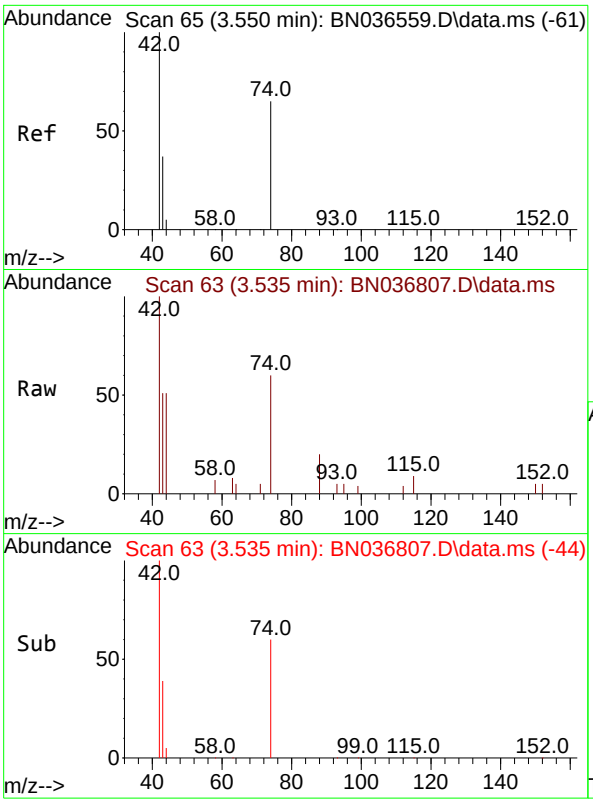


#2
1,4-Dioxane
Concen: 0.411 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion: 88 Resp: 902

Ion	Ratio	Lower	Upper
88	100		
43	48.6	37.8	56.8
58	81.3	67.4	101.2

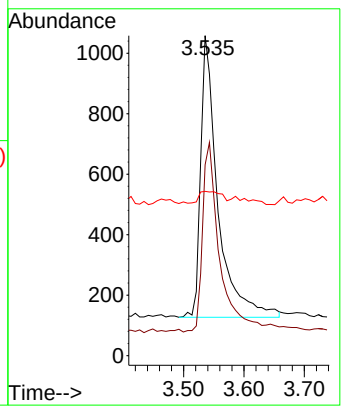




#3
n-Nitrosodimethylamine
Concen: 0.415 ng
RT: 3.535 min Scan# 6
Delta R.T. -0.014 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion: 42 Resp: 183

Ion	Ratio	Lower	Upper
42	100		
74	68.4	60.6	90.8
44	6.7	6.3	9.5



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
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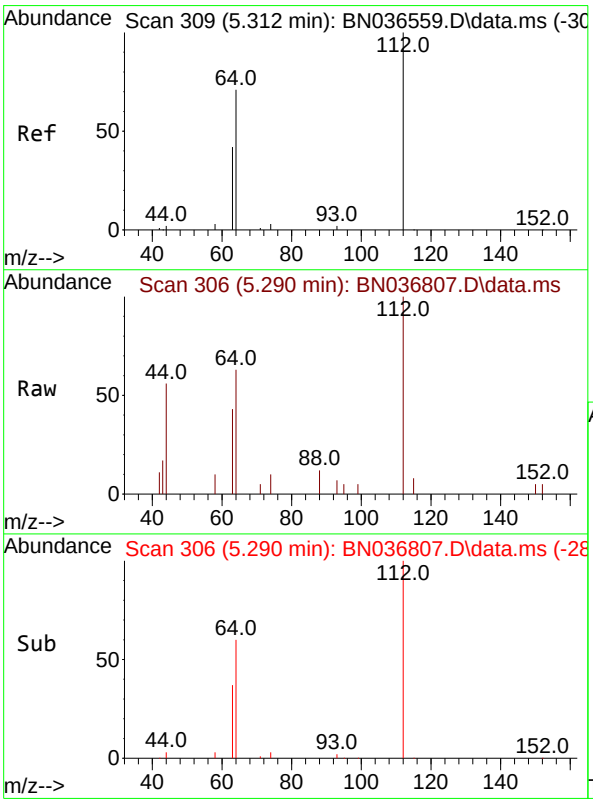
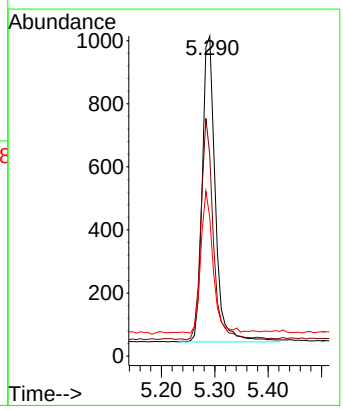
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

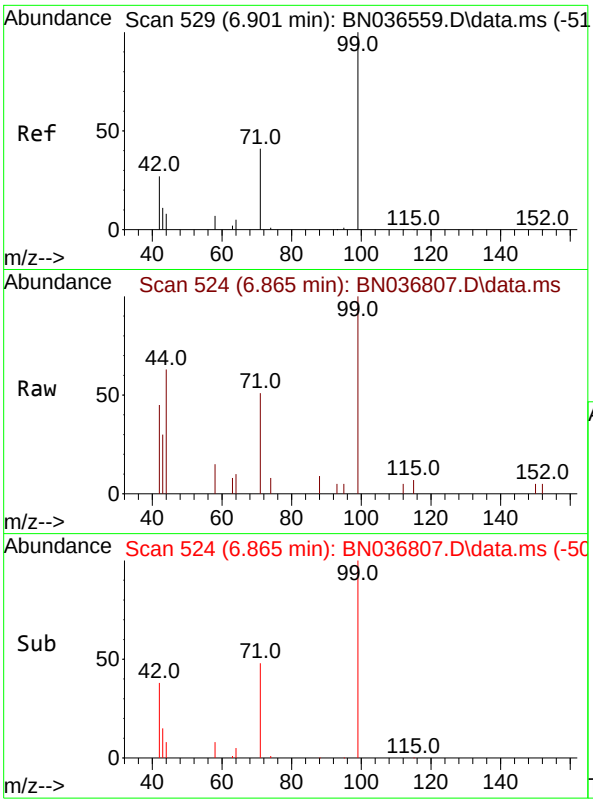


#4
2-Fluorophenol
Concen: 0.358 ng
RT: 5.290 min Scan# 306
Delta R.T. -0.022 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:112 Resp: 1649

Ion	Ratio	Lower	Upper
112	100		
64	68.3	53.1	79.7
63	42.4	31.8	47.8





#5
Phenol-d6
Concen: 0.340 ng
RT: 6.865 min Scan# 5
Delta R.T. -0.036 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion: 99 Resp: 193

Ion	Ratio	Lower	Upper
99	100		
42	39.4	26.5	39.7
71	46.4	34.1	51.1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
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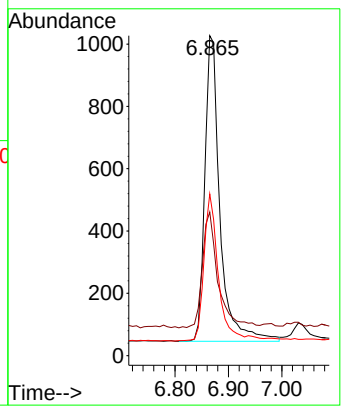
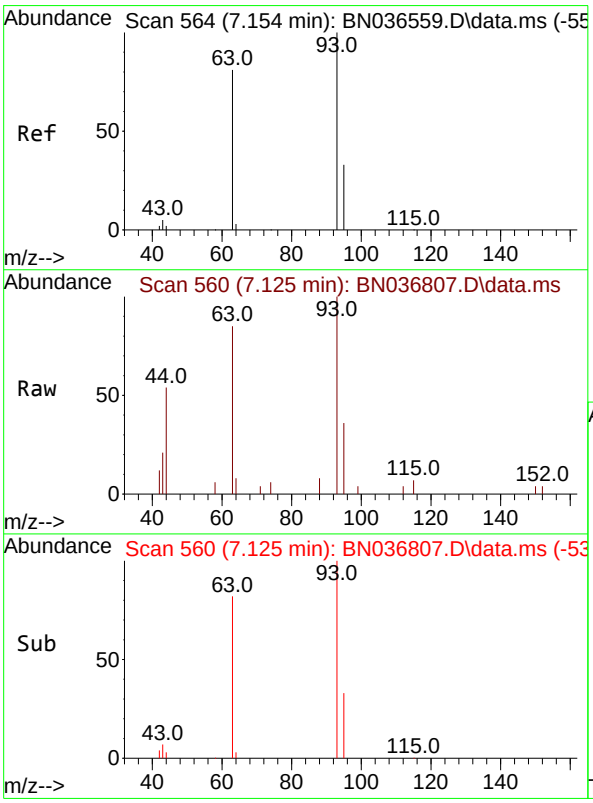
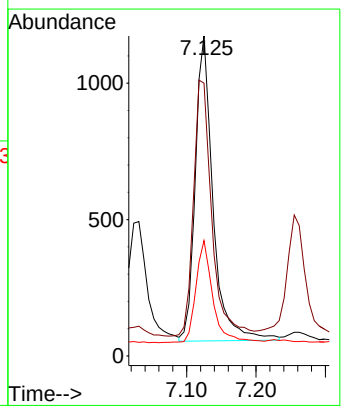


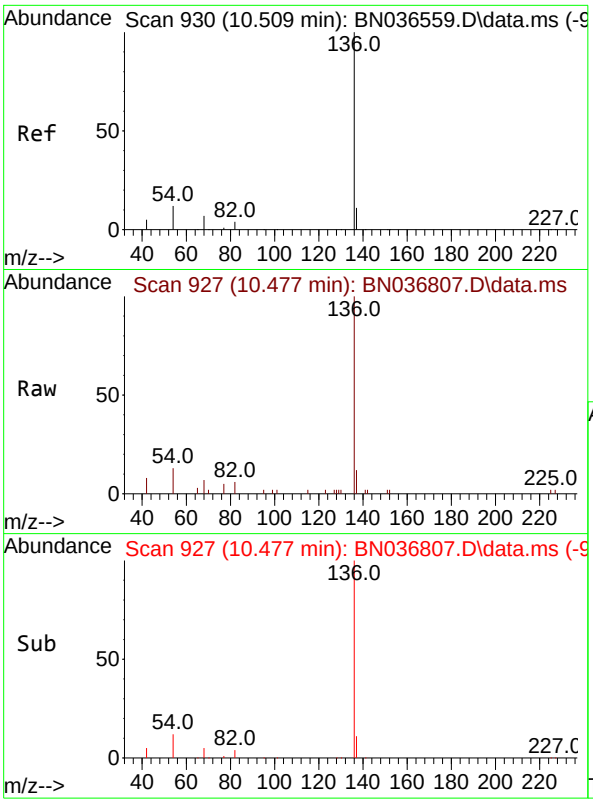


#6
bis(2-Chloroethyl)ether
Concen: 0.338 ng
RT: 7.125 min Scan# 560
Delta R.T. -0.029 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion: 93 Resp: 1990

Ion	Ratio	Lower	Upper
93	100		
63	86.3	67.7	101.5
95	31.9	25.6	38.4

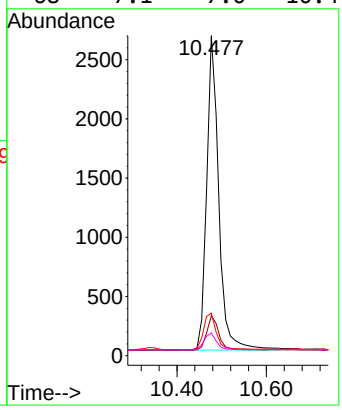




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.477 min Scan# 9
Delta R.T. -0.032 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:136 Resp: 495

Ion	Ratio	Lower	Upper
136	100		
137	12.4	10.3	15.5
54	13.3	11.5	17.3
68	7.1	7.0	10.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
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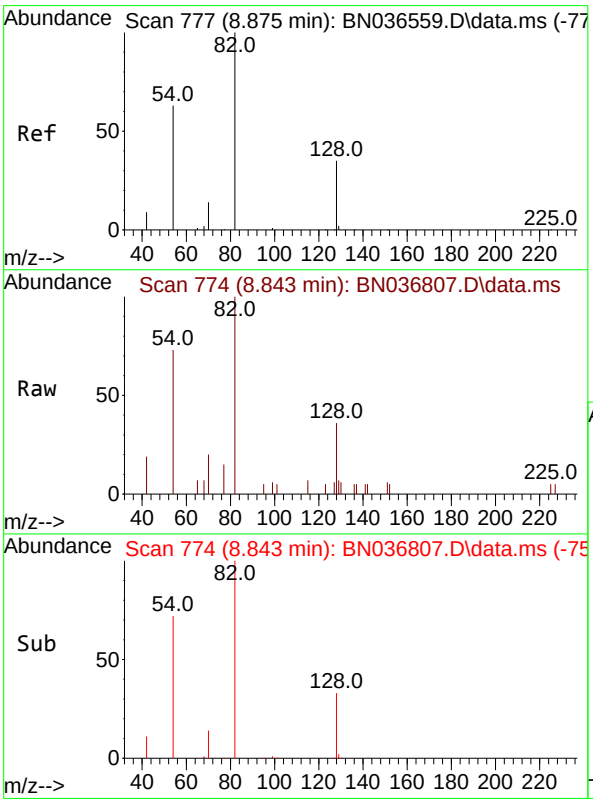
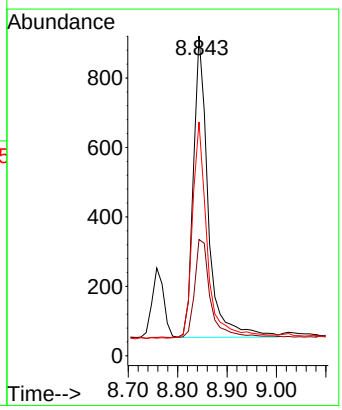
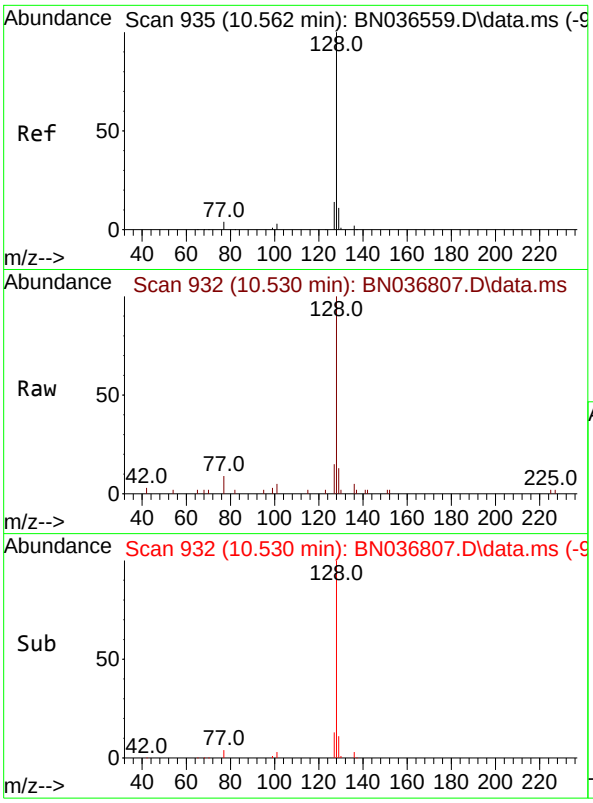


#8
Nitrobenzene-d5
Concen: 0.334 ng
RT: 8.843 min Scan# 774
Delta R.T. -0.032 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion: 82 Resp: 1802

Ion	Ratio	Lower	Upper
82	100		
128	36.4	30.6	45.8
54	73.1	52.2	78.4

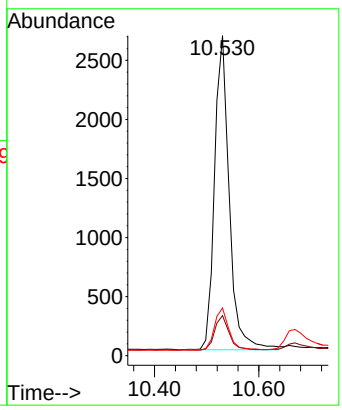




#9
Naphthalene
Concen: 0.356 ng
RT: 10.530 min Scan# 9
Delta R.T. -0.032 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:128 Resp: 518

Ion	Ratio	Lower	Upper
128	100		
129	12.5	9.8	14.6
127	14.9	11.8	17.8



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
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Reviewed By :Anahy Claudio 03/31/2025
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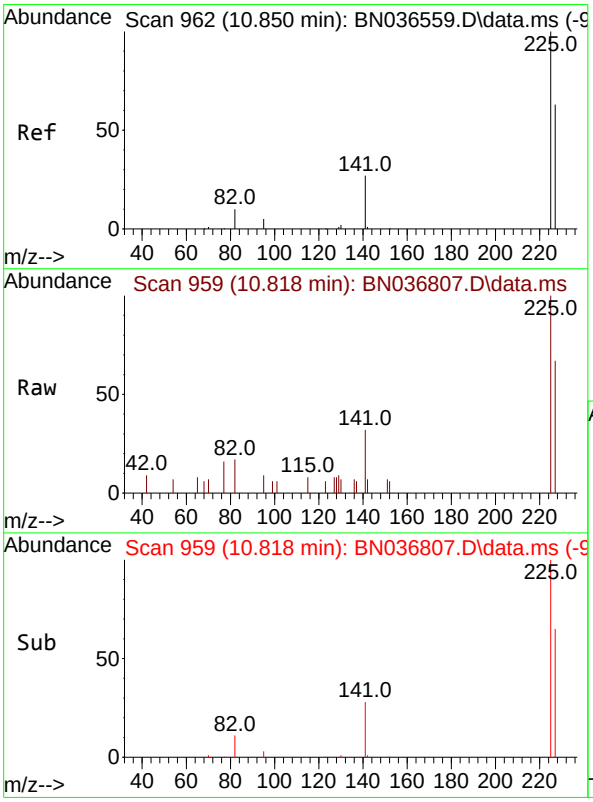
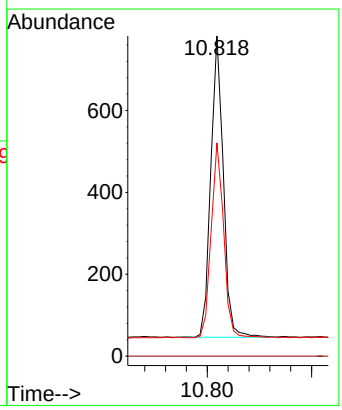
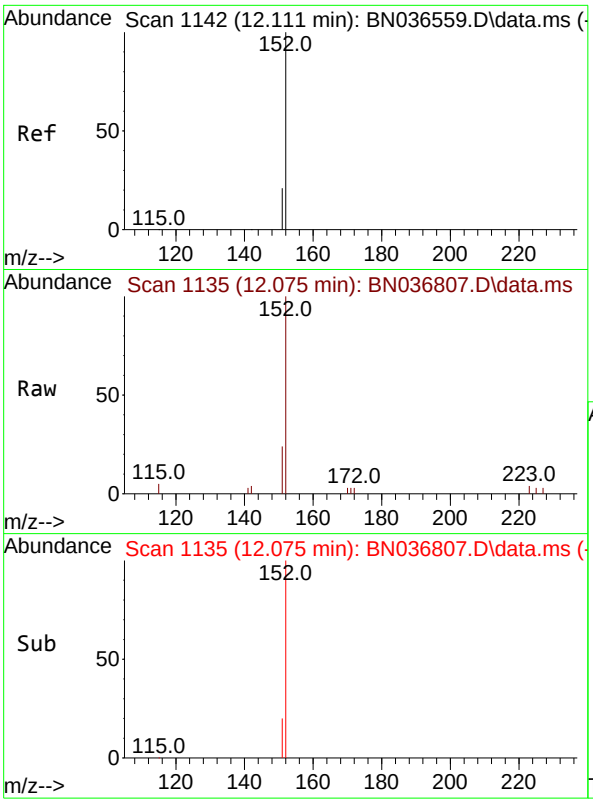


#10
Hexachlorobutadiene
Concen: 0.358 ng
RT: 10.818 min Scan# 959
Delta R.T. -0.032 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:225 Resp: 1228

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.7	51.8	77.8





#11
2-Methylnaphthalene-d10
Concen: 0.354 ng
RT: 12.075 min Scan# 11
Delta R.T. -0.035 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

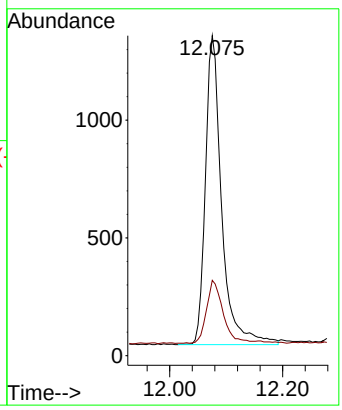
Tgt Ion:152 Resp: 260

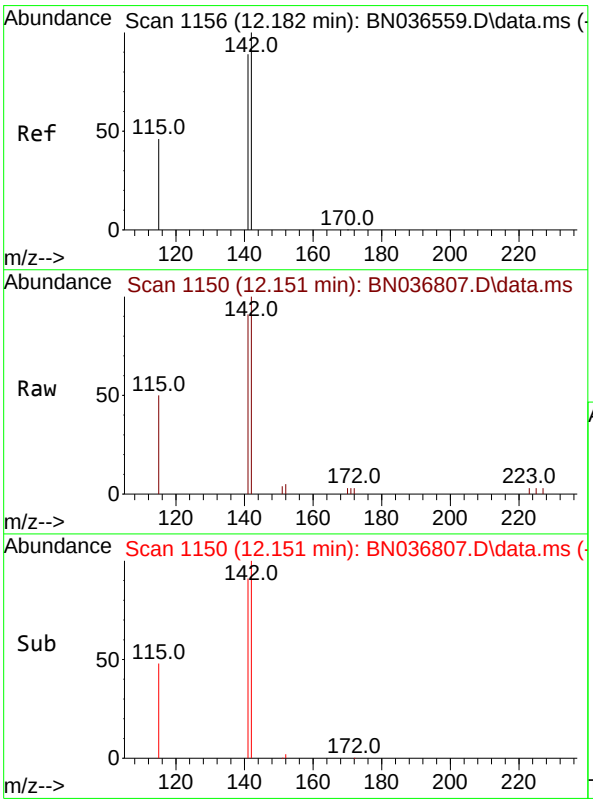
Ion	Ratio	Lower	Upper
152	100		
151	20.6	17.0	25.6

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

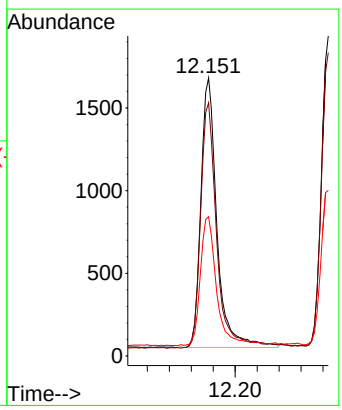


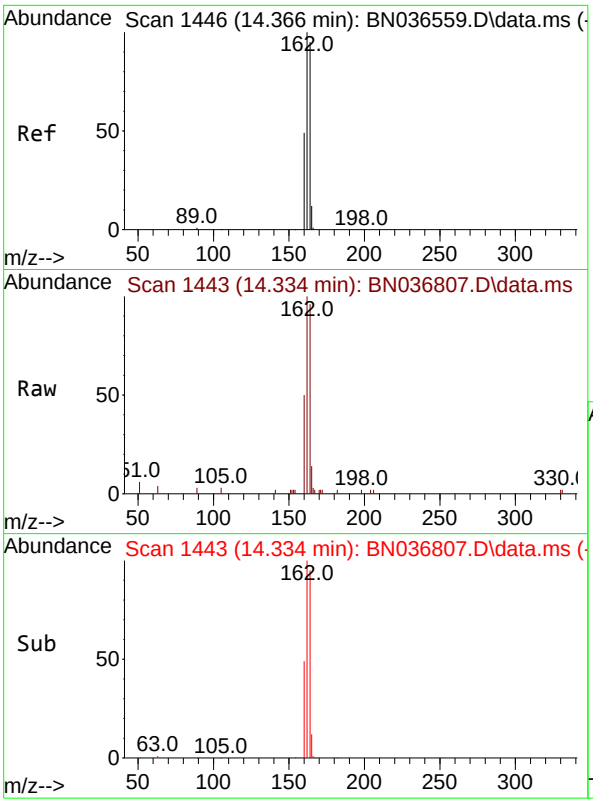


#12
2-Methylnaphthalene
Concen: 0.357 ng
RT: 12.151 min Scan# 1150
Delta R.T. -0.030 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:142 Resp: 3312

Ion	Ratio	Lower	Upper
142	100		
141	91.0	71.7	107.5
115	50.1	38.3	57.5

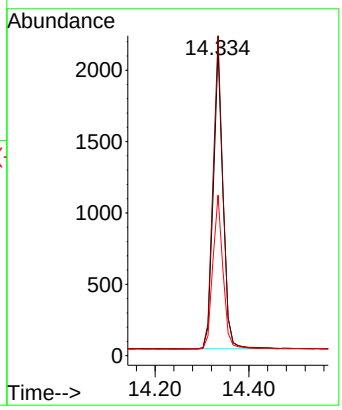




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:164 Resp: 3044

Ion	Ratio	Lower	Upper
164	100		
162	104.5	84.2	126.2
160	52.4	42.2	63.2



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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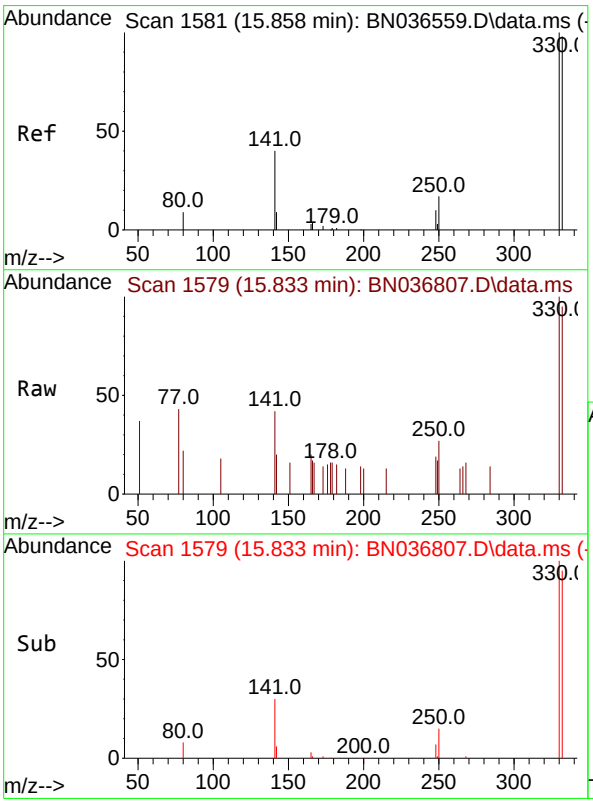
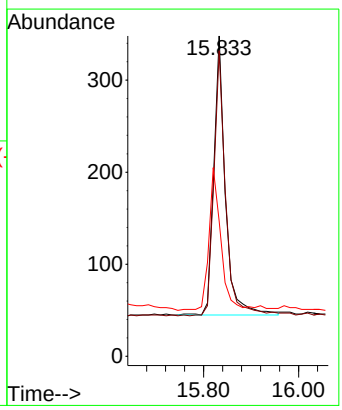
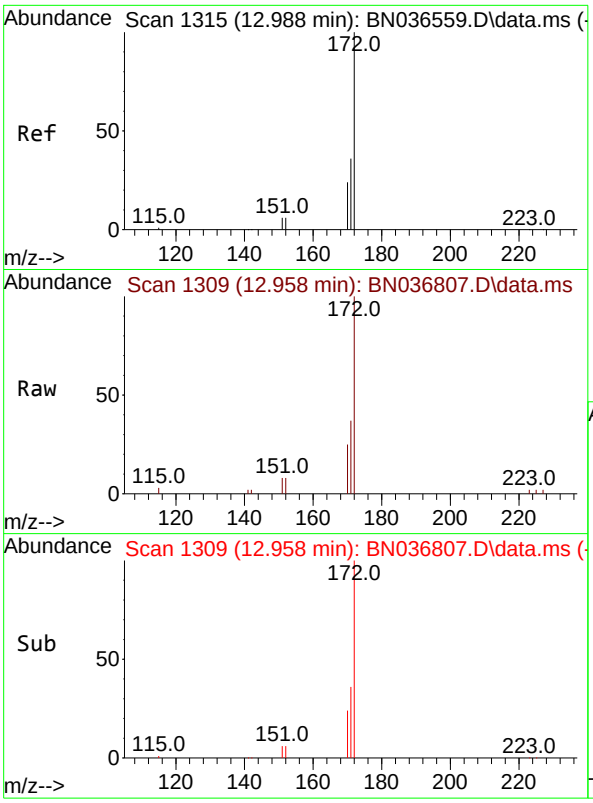


#14
2,4,6-Tribromophenol
Concen: 0.371 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.025 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:330 Resp: 513

Ion	Ratio	Lower	Upper
330	100		
332	96.9	75.2	112.8
141	52.4	43.4	65.2

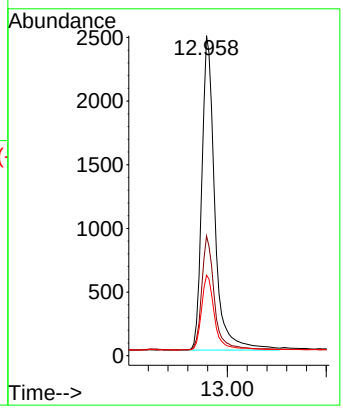




#15
2-Fluorobiphenyl
Concen: 0.329 ng
RT: 12.958 min Scan# 1
Delta R.T. -0.030 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:172 Resp: 583

Ion	Ratio	Lower	Upper
172	100		
171	37.4	29.5	44.3
170	25.2	20.2	30.4



Instrument :
BNA_N
ClientSampleId :
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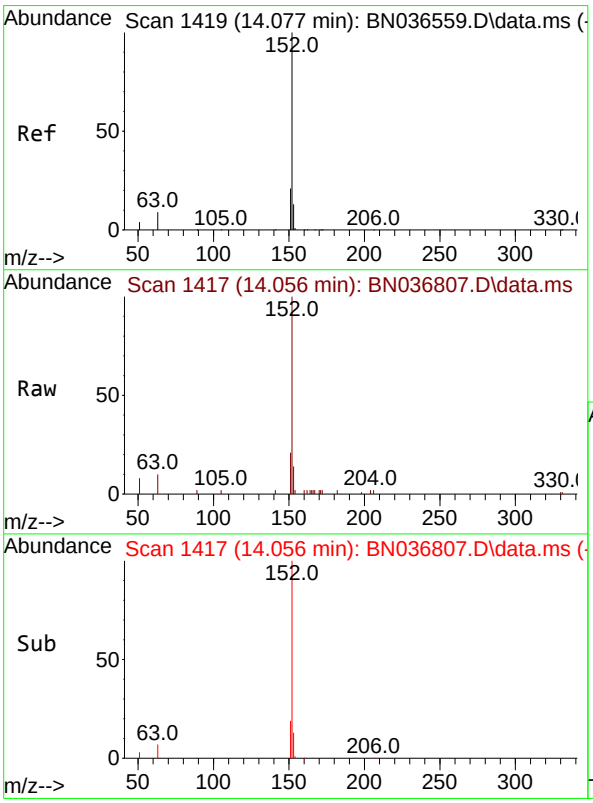
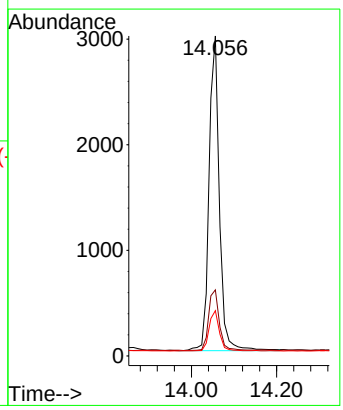
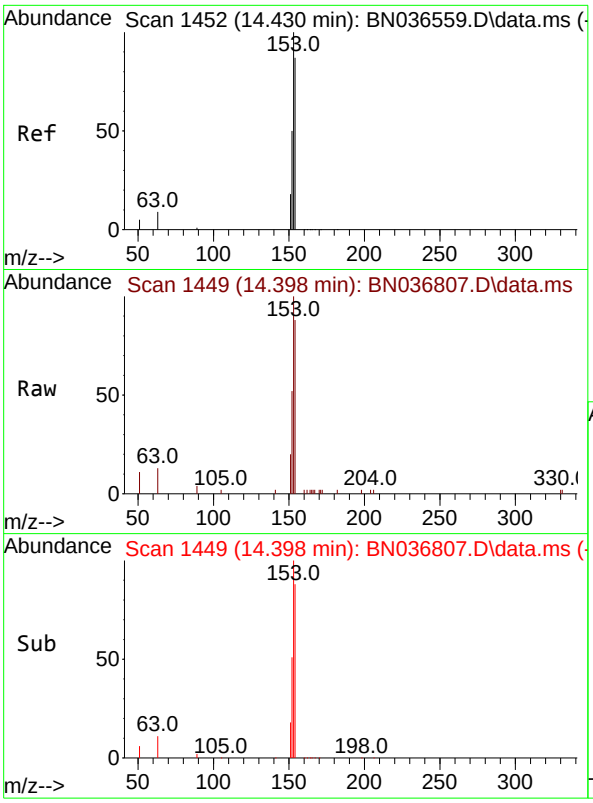


#16
Acenaphthylene
Concen: 0.348 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.021 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:152 Resp: 5001

Ion	Ratio	Lower	Upper
152	100		
151	19.7	16.2	24.4
153	12.6	10.6	15.8

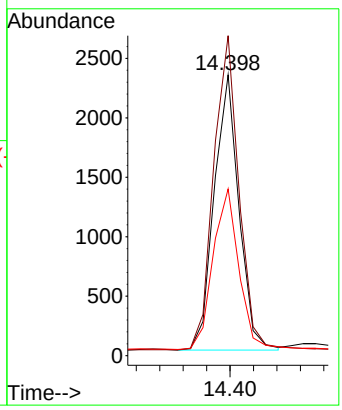




#17
Acenaphthene
Concen: 0.361 ng
RT: 14.398 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:154 Resp: 339

Ion	Ratio	Lower	Upper
154	100		
153	116.8	94.1	141.1
152	61.6	49.8	74.6



Instrument :
BNA_N
ClientSampleId :
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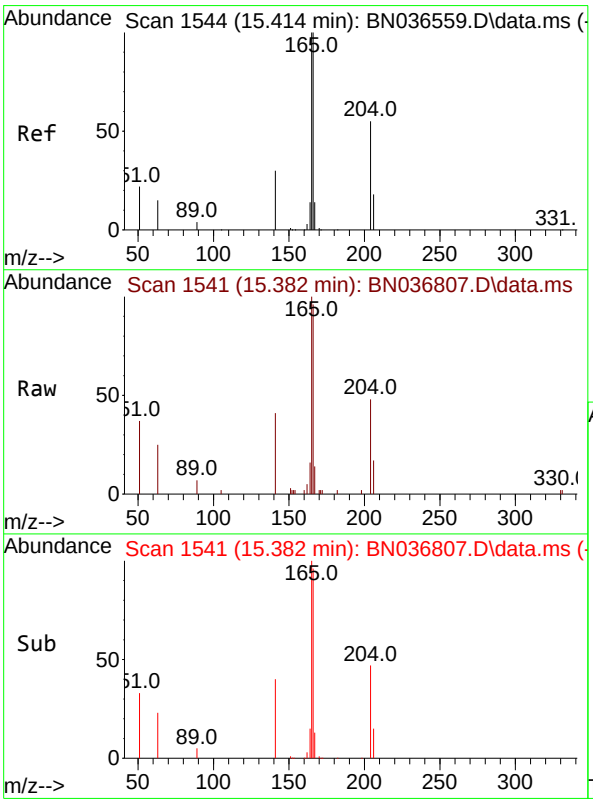
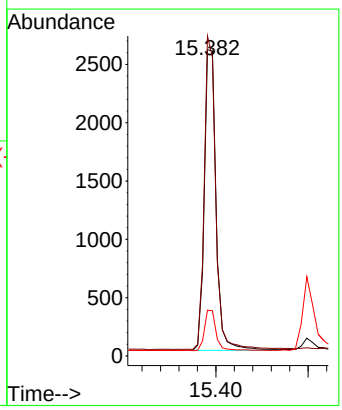
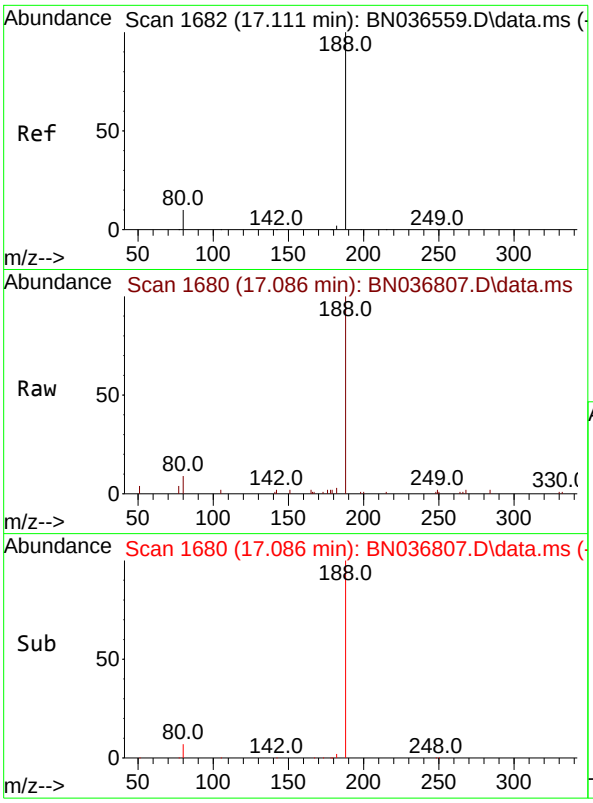


#18
Fluorene
Concen: 0.364 ng
RT: 15.382 min Scan# 1541
Delta R.T. -0.032 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:166 Resp: 4624

Ion	Ratio	Lower	Upper
166	100		
165	99.9	79.8	119.8
167	13.3	10.6	15.8

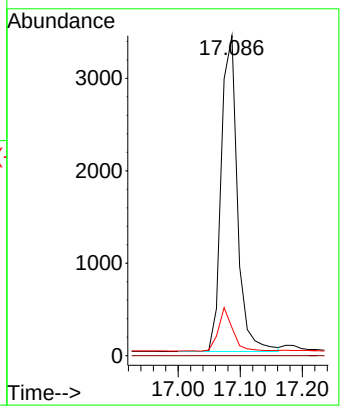




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:188 Resp: 616

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.7	8.8	13.2#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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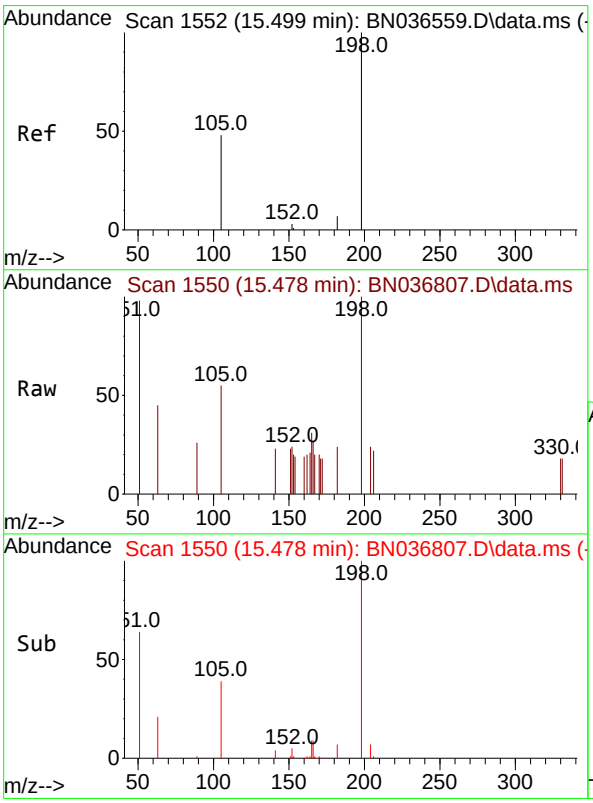
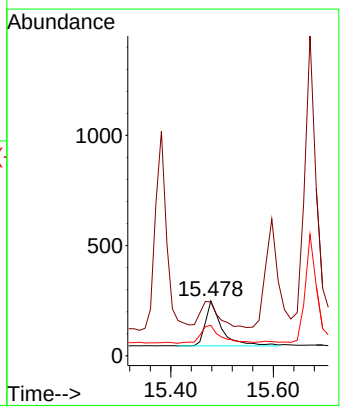
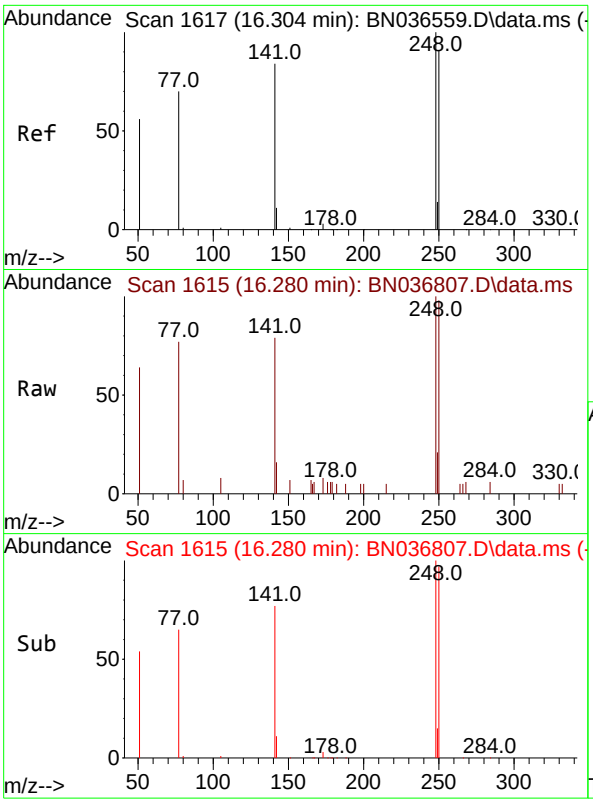


#20
4,6-Dinitro-2-methylphenol
Concen: 0.447 ng
RT: 15.478 min Scan# 1550
Delta R.T. -0.021 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:198 Resp: 475

Ion	Ratio	Lower	Upper
198	100		
51	98.0	107.9	161.9#
105	55.4	56.2	84.2#





#21
4-Bromophenyl-phenylether
Concen: 0.368 ng
RT: 16.280 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:248 Resp: 142

Ion	Ratio	Lower	Upper
248	100		
250	97.7	73.0	109.6
141	79.1	68.6	103.0

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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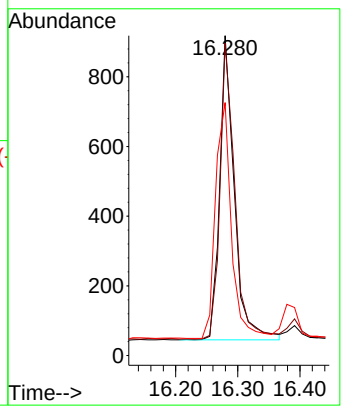
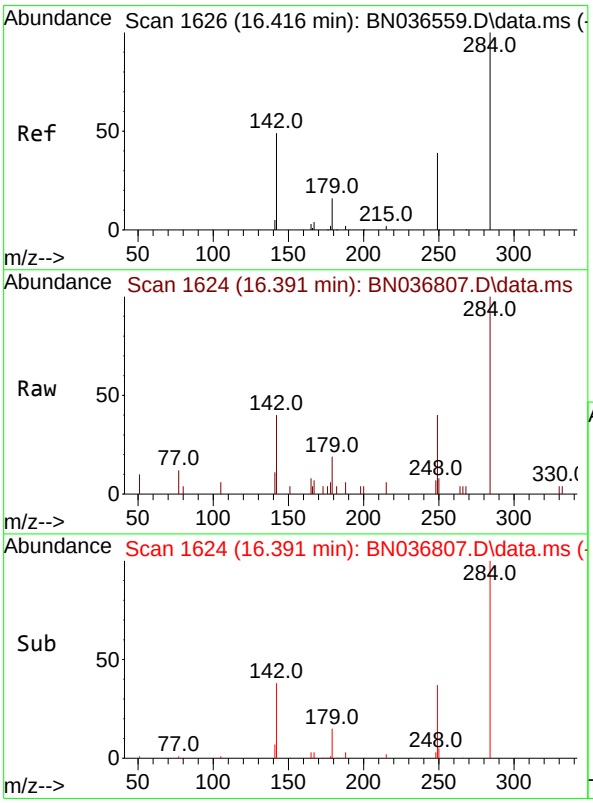
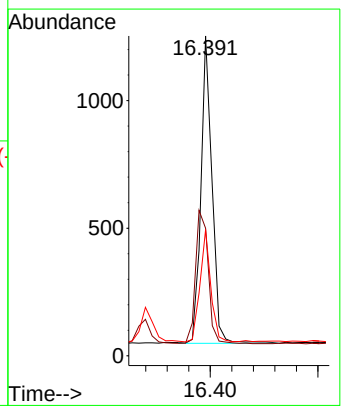


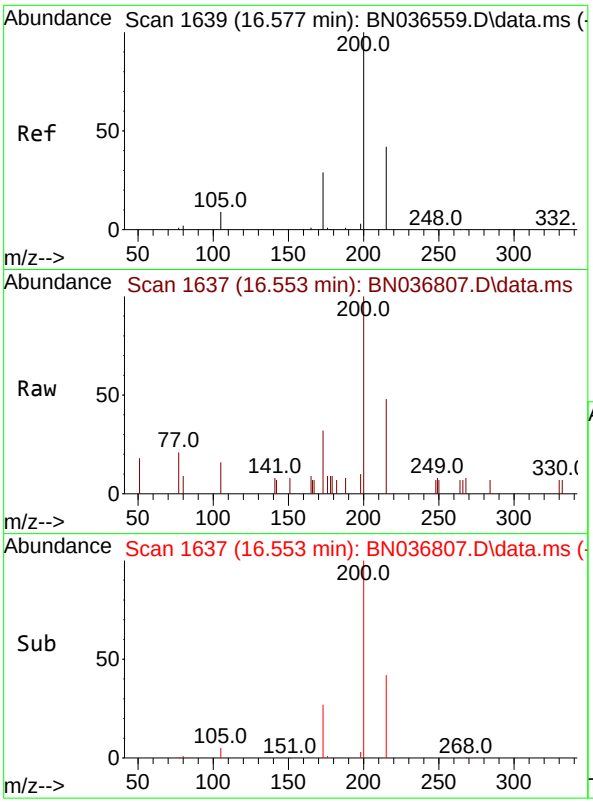


#22
Hexachlorobenzene
Concen: 0.371 ng
RT: 16.391 min Scan# 1624
Delta R.T. -0.025 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:284 Resp: 1729

Ion	Ratio	Lower	Upper
284	100		
142	49.7	37.0	55.4
249	35.3	28.1	42.1

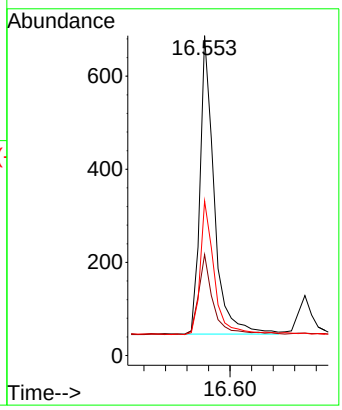




#23
Atrazine
Concen: 0.377 ng
RT: 16.553 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:200 Resp: 116

Ion	Ratio	Lower	Upper
200	100		
173	31.6	27.3	40.9
215	48.3	36.8	55.2



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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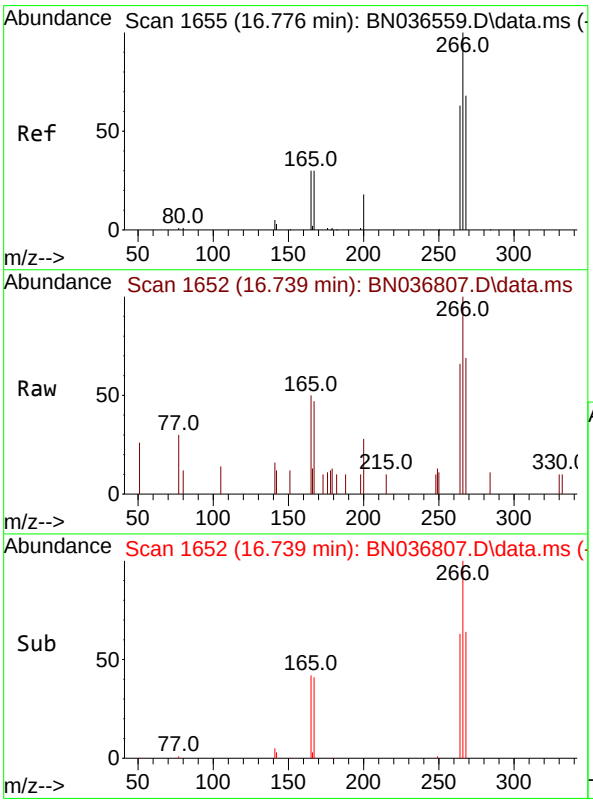
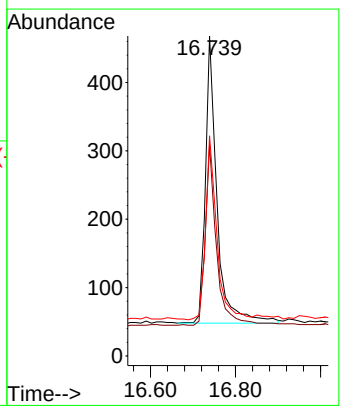
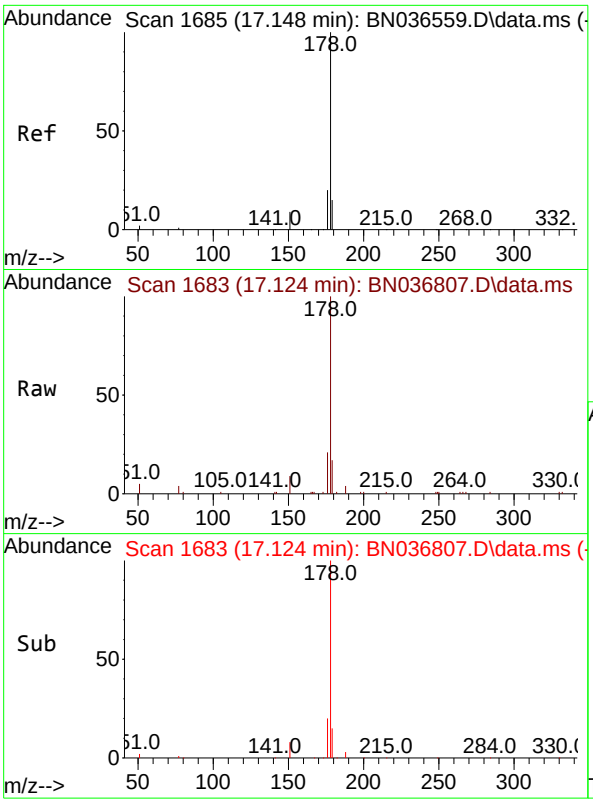


#24
Pentachlorophenol
Concen: 0.372 ng
RT: 16.739 min Scan# 1652
Delta R.T. -0.037 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:266 Resp: 792

Ion	Ratio	Lower	Upper
266	100		
264	61.1	49.6	74.4
268	62.4	50.9	76.3

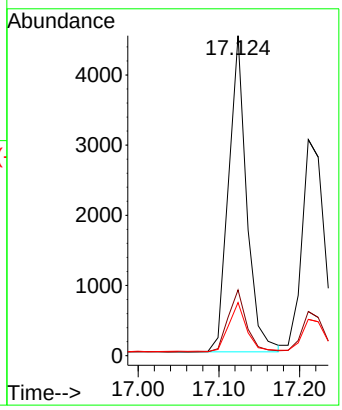




#25
Phenanthrene
Concen: 0.377 ng
RT: 17.124 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:178 Resp: 698

Ion	Ratio	Lower	Upper
178	100		
176	19.9	15.9	23.9
179	15.3	12.2	18.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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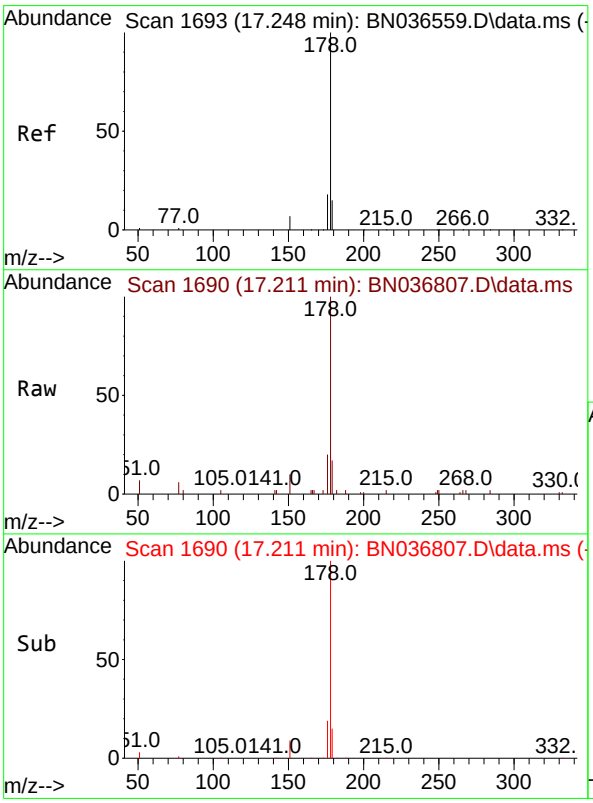
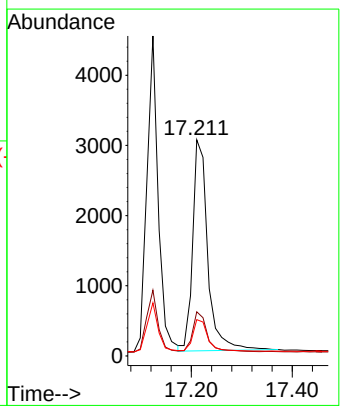
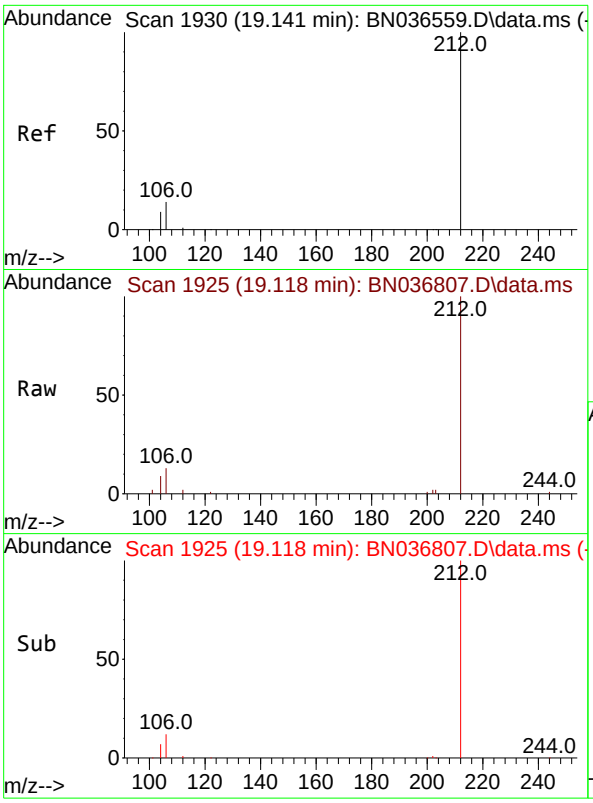


#26
Anthracene
Concen: 0.374 ng
RT: 17.211 min Scan# 1690
Delta R.T. -0.037 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:178 Resp: 6251

Ion	Ratio	Lower	Upper
178	100		
176	18.3	15.4	23.2
179	15.1	12.6	18.8

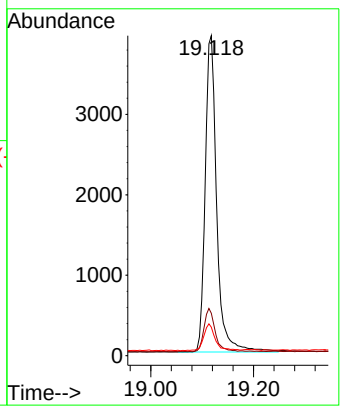




#27
Fluoranthene-d10
Concen: 0.384 ng
RT: 19.118 min Scan# 1
Delta R.T. -0.023 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:212 Resp: 607

Ion	Ratio	Lower	Upper
212	100		
106	13.2	11.8	17.6
104	8.4	7.3	10.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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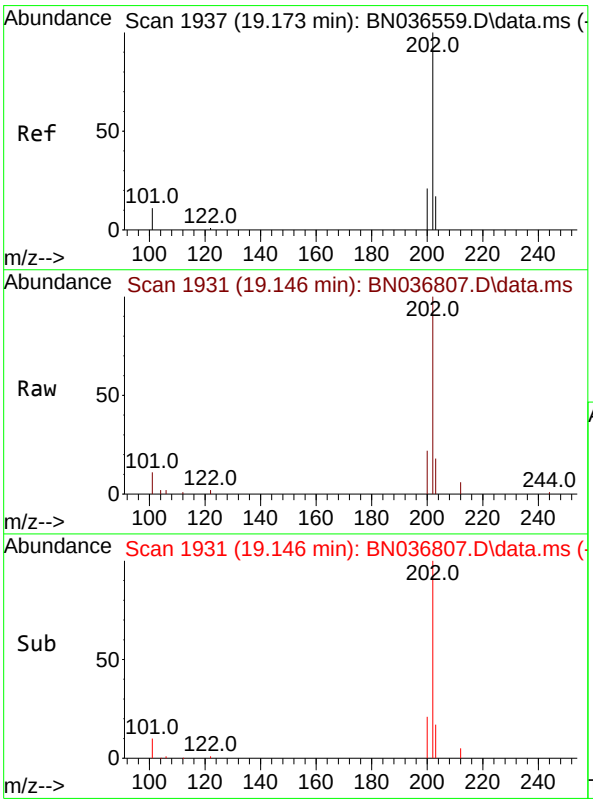
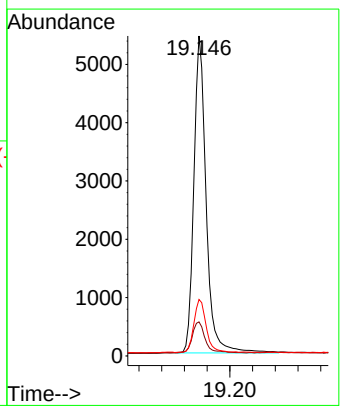
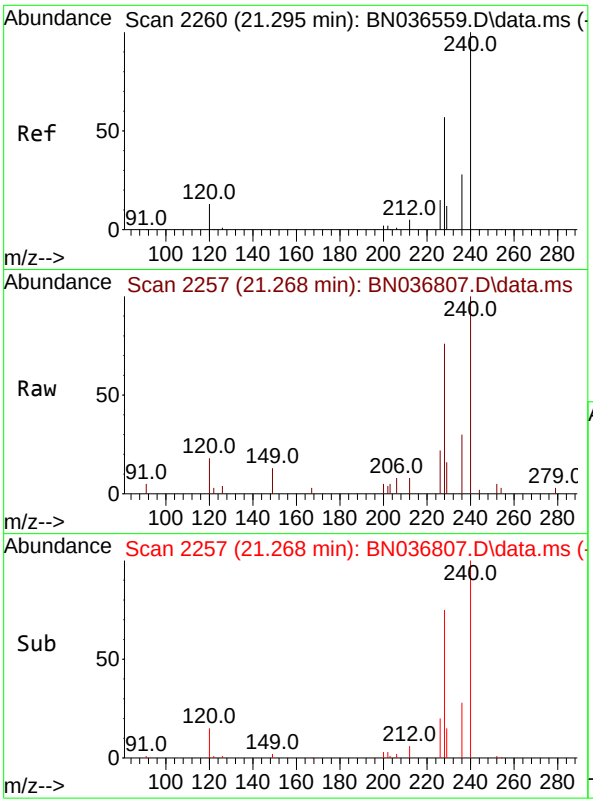


#28
Fluoranthene
Concen: 0.392 ng
RT: 19.146 min Scan# 1931
Delta R.T. -0.028 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:202 Resp: 8157

Ion	Ratio	Lower	Upper
202	100		
101	10.2	9.4	14.0
203	16.8	13.5	20.3

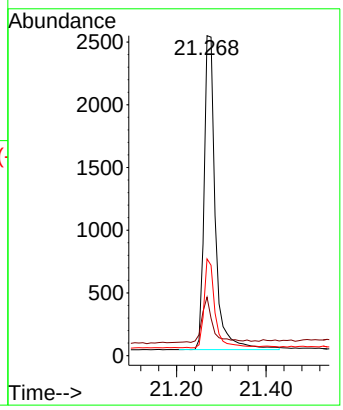




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.268 min Scan# 2
Delta R.T. -0.027 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:240 Resp: 436

Ion	Ratio	Lower	Upper
240	100		
120	18.3	14.6	22.0
236	30.3	24.1	36.1



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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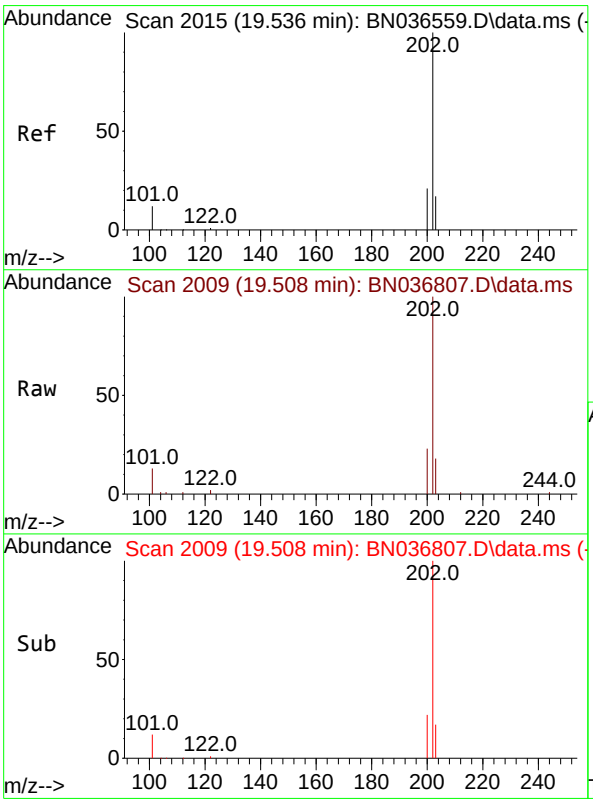
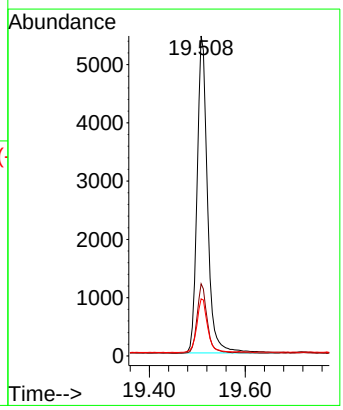
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

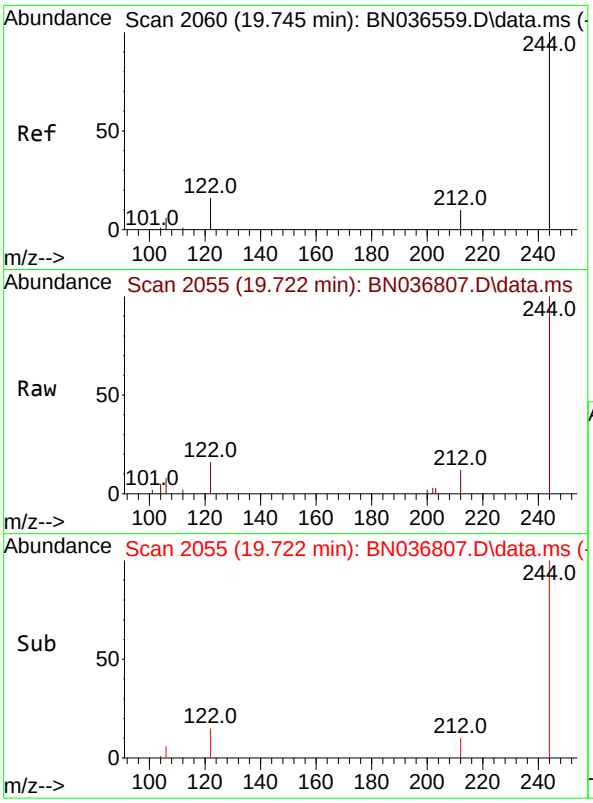


#30
Pyrene
Concen: 0.387 ng
RT: 19.508 min Scan# 2009
Delta R.T. -0.028 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:202 Resp: 8270

Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.1	25.7
203	17.4	14.1	21.1





#31
Terphenyl-d14
Concen: 0.365 ng
RT: 19.722 min Scan# 2
Delta R.T. -0.023 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

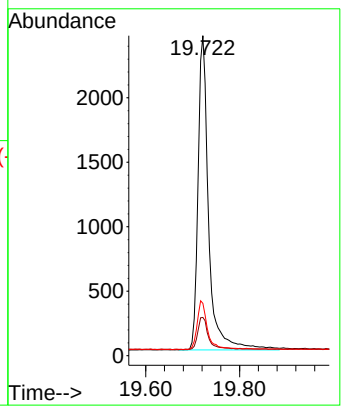
Tgt Ion:244 Resp: 382

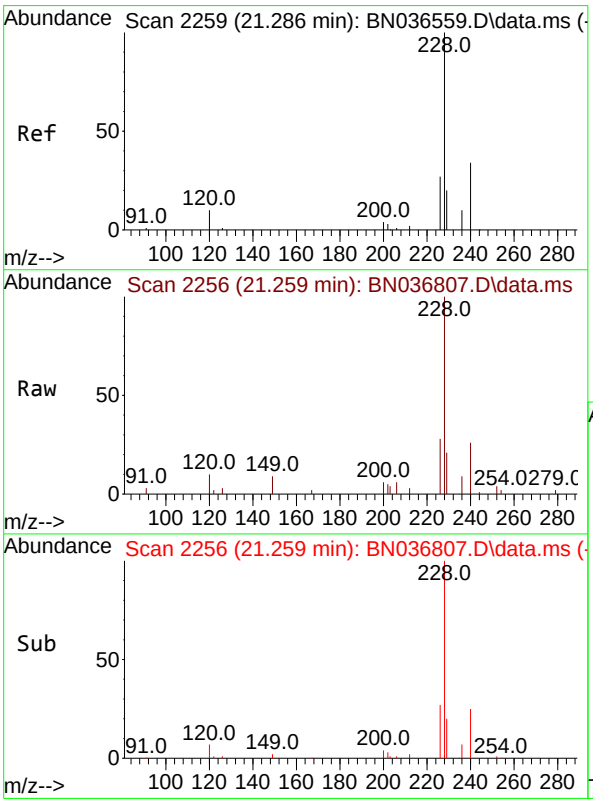
Ion	Ratio	Lower	Upper
244	100		
212	12.0	9.6	14.4
122	16.4	13.9	20.9

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

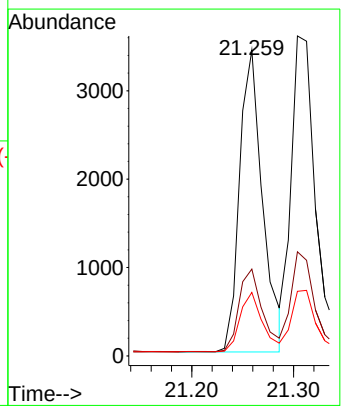


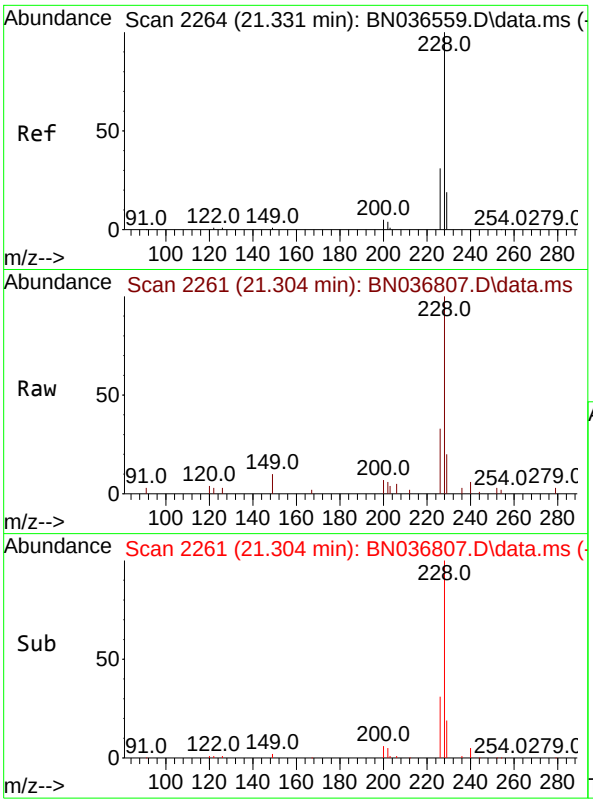


#32
Benzo(a)anthracene
Concen: 0.354 ng
RT: 21.259 min Scan# 2256
Delta R.T. -0.027 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:228 Resp: 5377

Ion	Ratio	Lower	Upper
228	100		
226	28.4	22.5	33.7
229	20.8	16.6	25.0

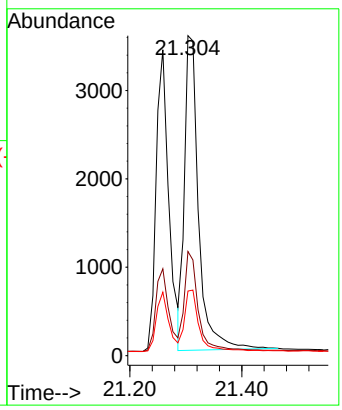




#33
Chrysene
Concen: 0.378 ng
RT: 21.304 min Scan# 2
Delta R.T. -0.027 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:228 Resp: 626

Ion	Ratio	Lower	Upper
228	100		
226	32.6	25.3	37.9
229	20.2	15.8	23.8



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
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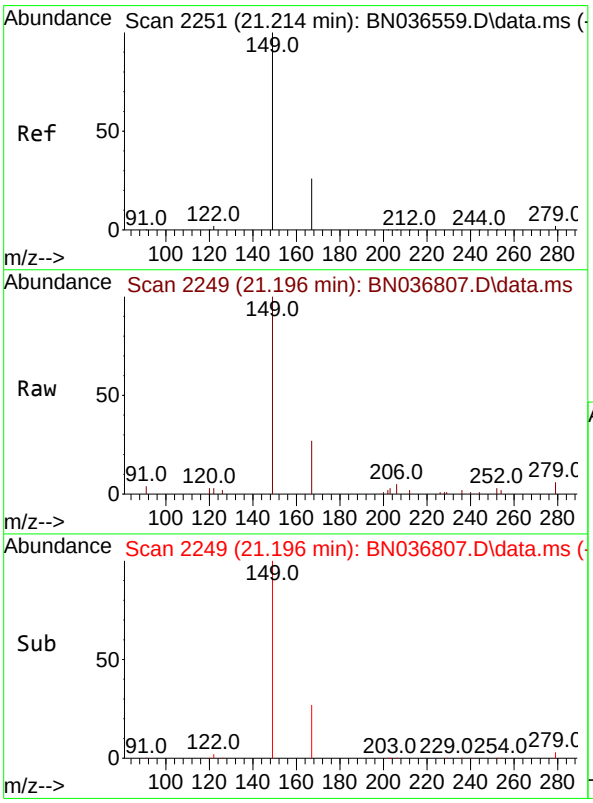
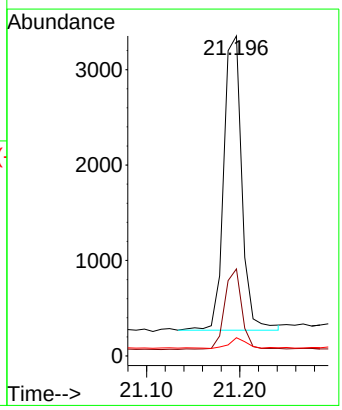
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

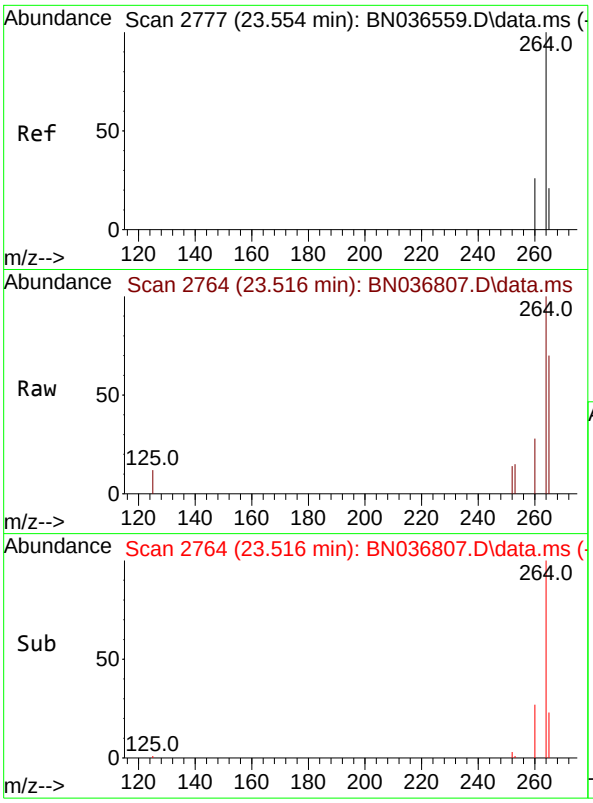


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.385 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:149 Resp: 4162

Ion	Ratio	Lower	Upper
149	100		
167	26.1	20.7	31.1
279	3.6	3.6	5.4#

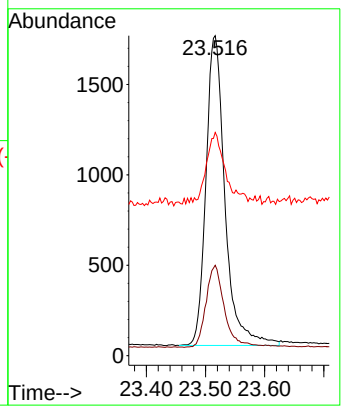




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.516 min Scan# 2
Delta R.T. -0.038 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:264 Resp: 381

Ion	Ratio	Lower	Upper
264	100		
260	28.2	22.6	33.8
265	69.8	88.1	132.1



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
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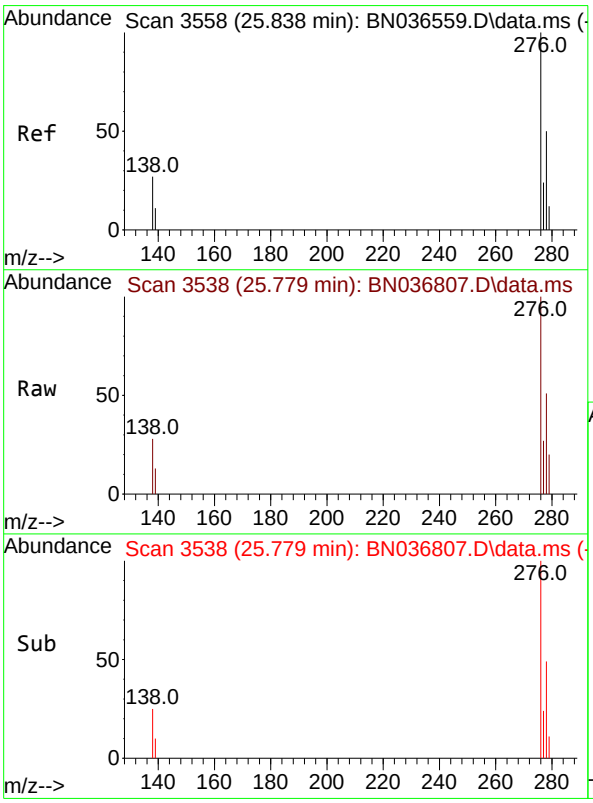
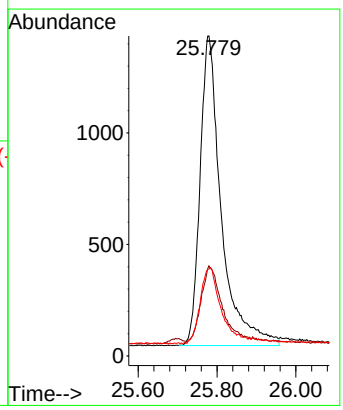
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

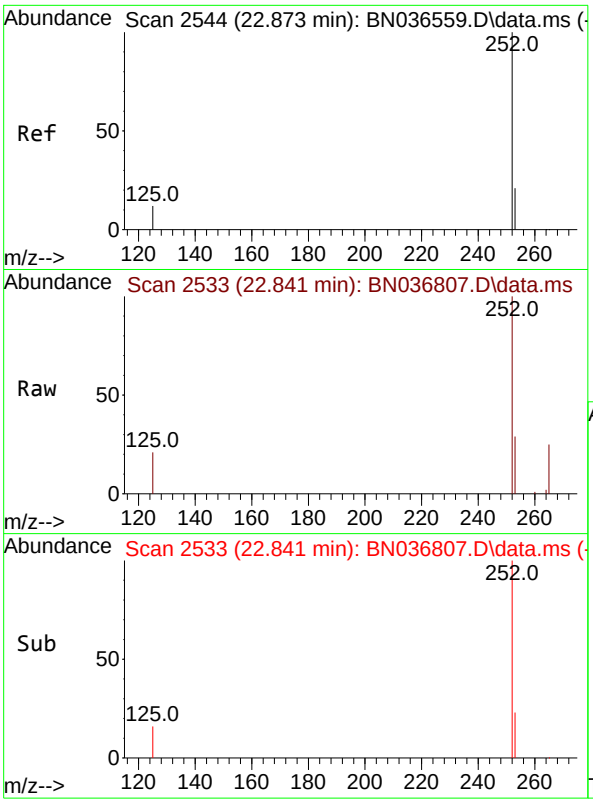


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.376 ng
RT: 25.779 min Scan# 3538
Delta R.T. -0.058 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:276 Resp: 5188

Ion	Ratio	Lower	Upper
276	100		
138	24.1	23.4	35.2
277	23.0	20.0	30.0

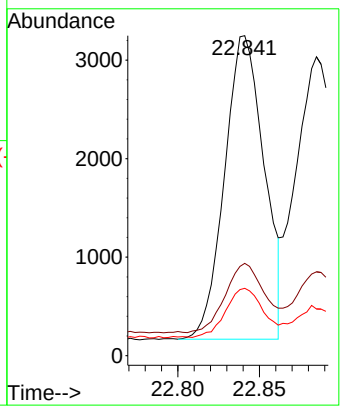




#37
Benzo(b)fluoranthene
Concen: 0.374 ng
RT: 22.841 min Scan# 2
Delta R.T. -0.032 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:252 Resp: 519

Ion	Ratio	Lower	Upper
252	100		
253	28.9	23.9	35.9
125	21.1	17.4	26.2



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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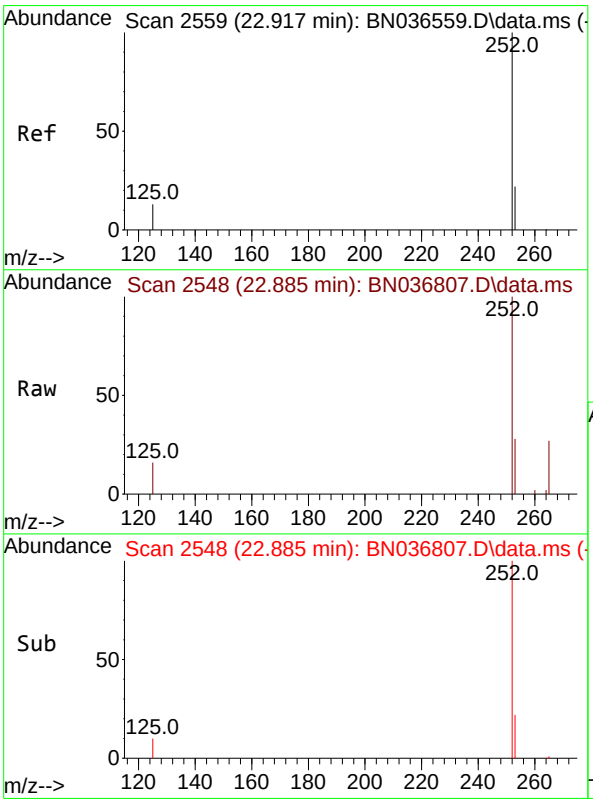
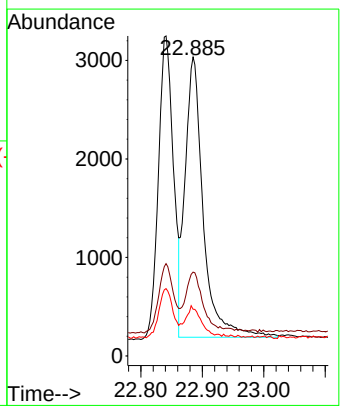
Supervised By :Jagrut Upadhyay 03/31/2025

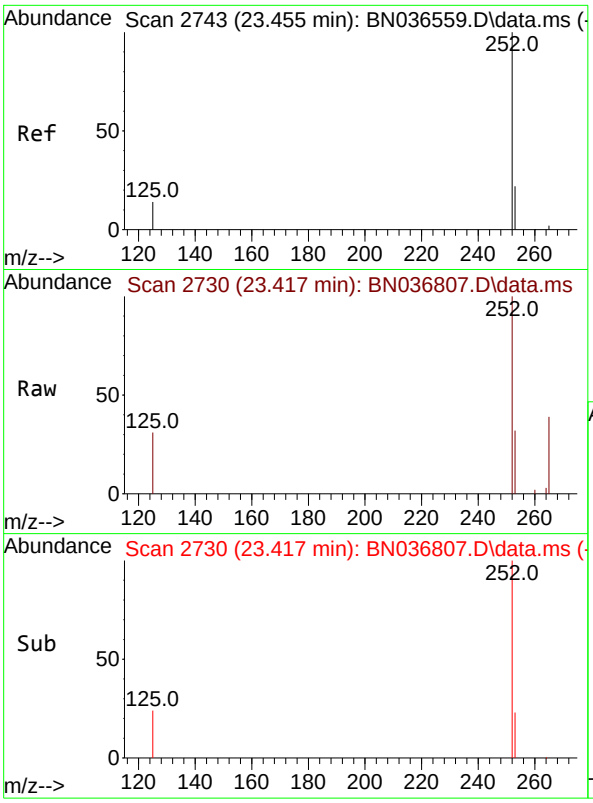


#38
Benzo(k)fluoranthene
Concen: 0.400 ng m
RT: 22.885 min Scan# 2548
Delta R.T. -0.032 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:252 Resp: 5835

Ion	Ratio	Lower	Upper
252	100		
253	28.1	24.6	36.8
125	15.7	17.8	26.8#

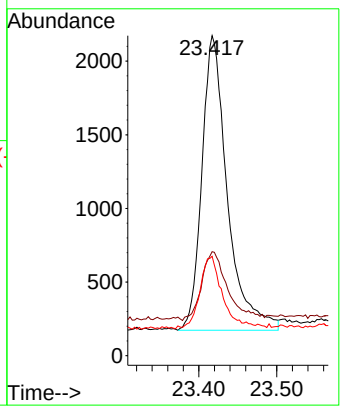




#39
Benzo(a)pyrene
Concen: 0.389 ng
RT: 23.417 min Scan# 2
Delta R.T. -0.038 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:252 Resp: 454

Ion	Ratio	Lower	Upper
252	100		
253	32.5	27.8	41.8
125	31.1	22.7	34.1



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
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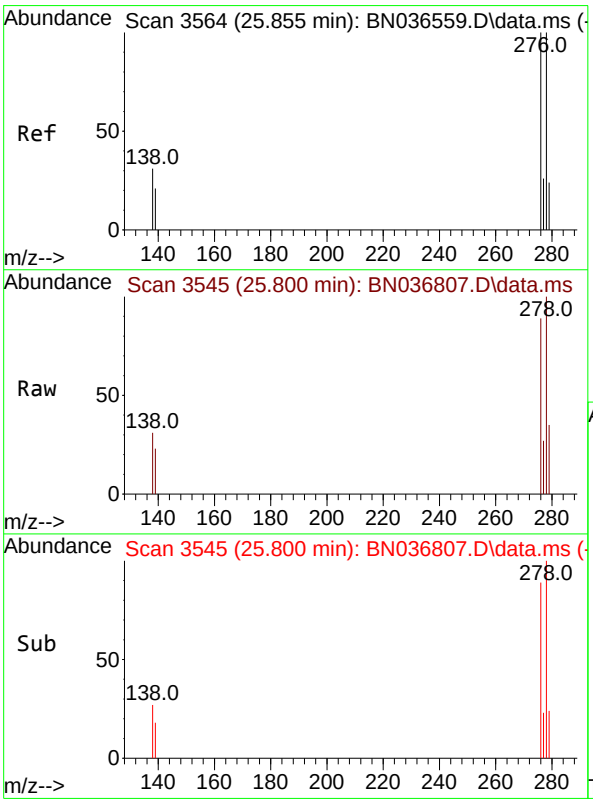
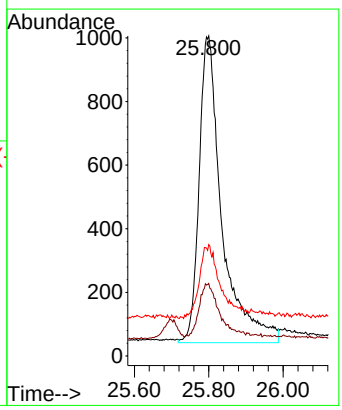
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

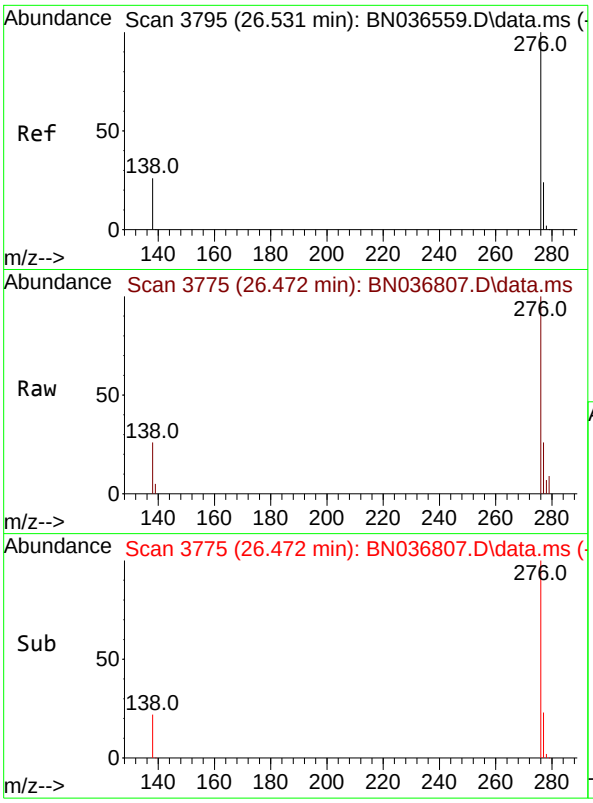


#40
Dibenzo(a,h)anthracene
Concen: 0.383 ng m
RT: 25.800 min Scan# 3545
Delta R.T. -0.055 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:278 Resp: 4113

Ion	Ratio	Lower	Upper
278	100		
139	22.7	20.8	31.2
279	34.8	28.8	43.2

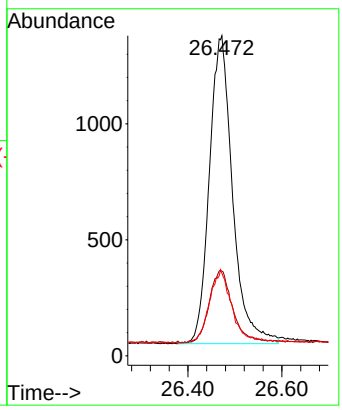




#41
Benzo(g,h,i)perylene
Concen: 0.371 ng
RT: 26.472 min Scan# 3
Delta R.T. -0.058 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:276 Resp: 455

Ion	Ratio	Lower	Upper
276	100		
277	26.4	22.2	33.4
138	25.8	24.1	36.1



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
Data File : BN036807.D
Acq On : 29 Mar 2025 12:21
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 38 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Mar 31 02:01:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 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	90	-0.03
2		1,4-Dioxane	0.444	0.456	-2.7	82	-0.01
3		n-Nitrosodimethylamine	0.898	0.931	-3.7	89	-0.01
4	S	2-Fluorophenol	0.932	0.835	10.4	76	-0.02
5	S	Phenol-d6	1.152	0.978	15.1	78	-0.04
6		bis(2-Chloroethyl)ether	1.190	1.007	15.4	76	-0.03
7	I	Naphthalene-d8	1.000	1.000	0.0	97	-0.03
8	S	Nitrobenzene-d5	0.435	0.364	16.3	85	-0.03
9		Naphthalene	1.177	1.046	11.1	84	-0.03
10		Hexachlorobutadiene	0.277	0.248	10.5	82	-0.03
11	SURR	2-Methylnaphthalene-d10	0.595	0.526	11.6	85	-0.04
12		2-Methylnaphthalene	0.749	0.668	10.8	85	-0.03
13	I	Acenaphthene-d10	1.000	1.000	0.0	101	-0.03
14	S	2,4,6-Tribromophenol	0.182	0.169	7.1	90	-0.02
15	S	2-Fluorobiphenyl	2.327	1.915	17.7	80	-0.03
16		Acenaphthylene	1.888	1.643	13.0	85	-0.02
17		Acenaphthene	1.236	1.115	9.8	88	-0.03
18		Fluorene	1.672	1.519	9.2	87	-0.03
19	I	Phenanthrene-d10	1.000	1.000	0.0	103	-0.02
20		4,6-Dinitro-2-methylphenol	0.086	0.077	10.5	103	-0.02
21		4-Bromophenyl-phenylether	0.251	0.231	8.0	87	-0.02
22		Hexachlorobenzene	0.303	0.280	7.6	86	-0.02
23		Atrazine	0.201	0.189	6.0	91	-0.02
24		Pentachlorophenol	0.138	0.128	7.2	96	-0.04
25		Phenanthrene	1.200	1.132	5.7	90	-0.02
26		Anthracene	1.083	1.013	6.5	91	-0.04
27	SURR	Fluoranthene-d10	1.025	0.985	3.9	91	-0.02
28		Fluoranthene	1.348	1.322	1.9	94	-0.03
29	I	Chrysene-d12	1.000	1.000	0.0	106	-0.03
30		Pyrene	1.956	1.894	3.2	94	-0.03
31	S	Terphenyl-d14	0.958	0.875	8.7	90	-0.02
32		Benzo(a)anthracene	1.391	1.232	11.4	91	-0.03
33		Chrysene	1.520	1.434	5.7	95	-0.03
34		Bis(2-ethylhexyl)phthalate	0.990	0.953	3.7	97	-0.02
35	I	Perylene-d12	1.000	1.000	0.0	108	-0.04
36		Indeno(1,2,3-cd)pyrene	1.444	1.359	5.9	95	-0.06
37		Benzo(b)fluoranthene	1.456	1.360	6.6	95	-0.03
38		Benzo(k)fluoranthene	1.527	1.528	-0.1	102	-0.03
39	C	Benzo(a)pyrene	1.226	1.191	2.9	99	-0.04
40		Dibenzo(a,h)anthracene	1.124	1.077	4.2	100	-0.06
41		Benzo(g,h,i)perylene	1.286	1.194	7.2	93	-0.06

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
Data File : BN036807.D
Acq On : 29 Mar 2025 12:21
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 38 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Mar 31 02:01:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 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	90	-0.03
2		1,4-Dioxane	0.400	0.411	-2.7	82	-0.01
3		n-Nitrosodimethylamine	0.400	0.415	-3.7	89	-0.01
4	S	2-Fluorophenol	0.400	0.358	10.5	76	-0.02
5	S	Phenol-d6	0.400	0.340	15.0	78	-0.04
6		bis(2-Chloroethyl)ether	0.400	0.338	15.5	76	-0.03
7	I	Naphthalene-d8	0.400	0.400	0.0	97	-0.03
8	S	Nitrobenzene-d5	0.400	0.334	16.5	85	-0.03
9		Naphthalene	0.400	0.356	11.0	84	-0.03
10		Hexachlorobutadiene	0.400	0.358	10.5	82	-0.03
11	SURR	2-Methylnaphthalene-d10	0.400	0.354	11.5	85	-0.04
12		2-Methylnaphthalene	0.400	0.357	10.8	85	-0.03
13	I	Acenaphthene-d10	0.400	0.400	0.0	101	-0.03
14	S	2,4,6-Tribromophenol	0.400	0.371	7.3	90	-0.02
15	S	2-Fluorobiphenyl	0.400	0.329	17.8	80	-0.03
16		Acenaphthylene	0.400	0.348	13.0	85	-0.02
17		Acenaphthene	0.400	0.361	9.8	88	-0.03
18		Fluorene	0.400	0.364	9.0	87	-0.03
19	I	Phenanthrene-d10	0.400	0.400	0.0	103	-0.02
20		4,6-Dinitro-2-methylphenol	0.400	0.447	-11.7	103	-0.02
21		4-Bromophenyl-phenylether	0.400	0.368	8.0	87	-0.02
22		Hexachlorobenzene	0.400	0.371	7.3	86	-0.02
23		Atrazine	0.400	0.377	5.8	91	-0.02
24		Pentachlorophenol	0.400	0.372	7.0	96	-0.04
25		Phenanthrene	0.400	0.377	5.8	90	-0.02
26		Anthracene	0.400	0.374	6.5	91	-0.04
27	SURR	Fluoranthene-d10	0.400	0.384	4.0	91	-0.02
28		Fluoranthene	0.400	0.392	2.0	94	-0.03
29	I	Chrysene-d12	0.400	0.400	0.0	106	-0.03
30		Pyrene	0.400	0.387	3.3	94	-0.03
31	S	Terphenyl-d14	0.400	0.365	8.8	90	-0.02
32		Benzo(a)anthracene	0.400	0.354	11.5	91	-0.03
33		Chrysene	0.400	0.378	5.5	95	-0.03
34		Bis(2-ethylhexyl)phthalate	0.400	0.385	3.8	97	-0.02
35	I	Perylene-d12	0.400	0.400	0.0	108	-0.04
36		Indeno(1,2,3-cd)pyrene	0.400	0.376	6.0	95	-0.06
37		Benzo(b)fluoranthene	0.400	0.374	6.5	95	-0.03
38		Benzo(k)fluoranthene	0.400	0.400	0.0	102	-0.03
39	C	Benzo(a)pyrene	0.400	0.389	2.8	99	-0.04
40		Dibenzo(a,h)anthracene	0.400	0.383	4.3	100	-0.06
41		Benzo(g,h,i)perylene	0.400	0.371	7.3	93	-0.06

(#) = 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: TETR06

Lab Code: CHEM Case No.: Q1621 SAS No.: Q1621 SDG No.: Q1621

Instrument ID: BNA_N Calibration Date/Time: 03/31/2025 10:39

Lab File ID: BN036809.D Init. Calib. Date(s): 03/10/2025 03/10/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 11:42 15:19

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.595	0.537		-9.7	20.0
Fluoranthene-d10	1.025	0.990		-3.4	20.0
2-Fluorophenol	0.932	0.818		-12.2	20.0
Phenol-d6	1.152	0.953		-17.3	20.0
Nitrobenzene-d5	0.435	0.363		-16.6	20.0
2-Fluorobiphenyl	2.327	1.979		-15.0	20.0
2,4,6-Tribromophenol	0.182	0.161		-11.5	20.0
Terphenyl-d14	0.958	0.798		-16.7	20.0
1,4-Dioxane	0.444	0.454		2.3	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN033125\
Data File : BN036809.D
Acq On : 31 Mar 2025 10:39
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 31 12:10:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.695	152	1888	0.400	ng	-0.03
7) Naphthalene-d8	10.477	136	4656	0.400	ng	-0.03
13) Acenaphthene-d10	14.334	164	2798	0.400	ng	-0.03
19) Phenanthrene-d10	17.086	188	5809	0.400	ng	-0.02
29) Chrysene-d12	21.277	240	4586	0.400	ng	#-0.02
35) Perylene-d12	23.522	264	3945	0.400	ng	#-0.03
System Monitoring Compounds						
4) 2-Fluorophenol	5.283	112	1544	0.351	ng	-0.03
5) Phenol-d6	6.865	99	1799	0.331	ng	-0.04
8) Nitrobenzene-d5	8.843	82	1689	0.333	ng	-0.03
11) 2-Methylnaphthalene-d10	12.075	152	2501	0.361	ng	-0.04
14) 2,4,6-Tribromophenol	15.833	330	451	0.355	ng	-0.02
15) 2-Fluorobiphenyl	12.958	172	5537	0.340	ng	-0.03
27) Fluoranthene-d10	19.118	212	5750	0.386	ng	-0.02
31) Terphenyl-d14	19.722	244	3660	0.333	ng	-0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	3.225	88	857	0.409	ng	96
3) n-Nitrosodimethylamine	3.535	42	1677	0.396	ng	93
6) bis(2-Chloroethyl)ether	7.125	93	1889	0.336	ng	98
9) Naphthalene	10.530	128	4851	0.354	ng	99
10) Hexachlorobutadiene	10.818	225	1142	0.354	ng	# 98
12) 2-Methylnaphthalene	12.151	142	3144	0.361	ng	99
16) Acenaphthylene	14.056	152	4617	0.350	ng	99
17) Acenaphthene	14.398	154	3162	0.366	ng	99
18) Fluorene	15.382	166	4232	0.362	ng	99
20) 4,6-Dinitro-2-methylph...	15.478	198	405	0.419	ng	86
21) 4-Bromophenyl-phenylether	16.280	248	1292	0.355	ng	93
22) Hexachlorobenzene	16.391	284	1587	0.361	ng	97
23) Atrazine	16.553	200	1096	0.376	ng	98
24) Pentachlorophenol	16.739	266	743	0.371	ng	98
25) Phenanthrene	17.124	178	6581	0.378	ng	100
26) Anthracene	17.211	178	5583	0.355	ng	100
28) Fluoranthene	19.150	202	7591	0.388	ng	99
30) Pyrene	19.513	202	7799	0.348	ng	100
32) Benzo(a)anthracene	21.259	228	5377	0.337	ng	98
33) Chrysene	21.313	228	6640	0.381	ng	98
34) Bis(2-ethylhexyl)phtha...	21.196	149	4143	0.365	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.782	276	5019	0.352	ng	94
37) Benzo(b)fluoranthene	22.844	252	5495	0.383	ng	98
38) Benzo(k)fluoranthene	22.888	252	5737m	0.381	ng	
39) Benzo(a)pyrene	23.423	252	4679	0.387	ng	96
40) Dibenzo(a,h)anthracene	25.805	278	3655	0.330	ng	99
41) Benzo(g,h,i)perylene	26.472	276	4543	0.358	ng	97

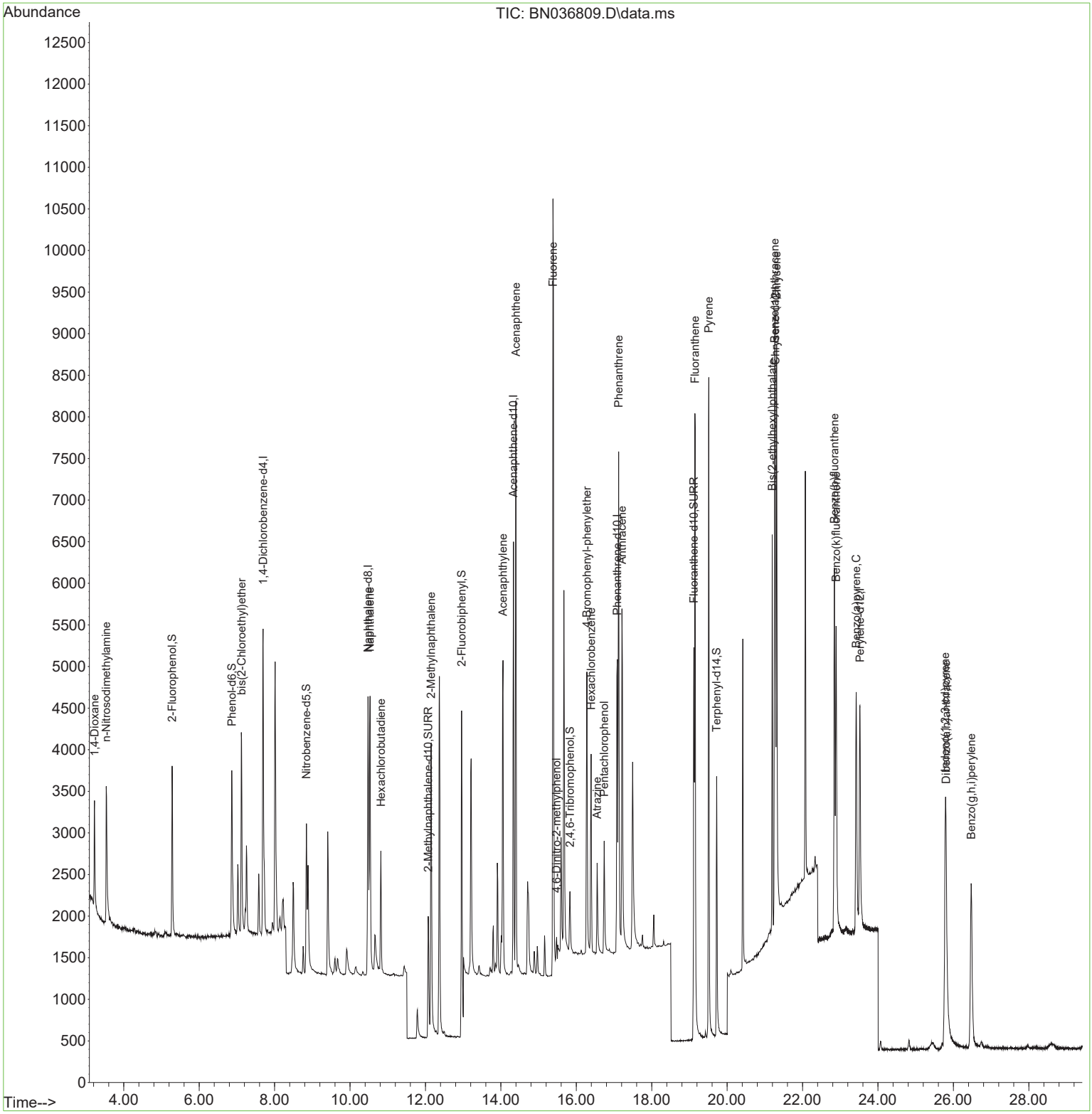
(#) = qualifier out of range (m) = manual integration (+) = signals summed

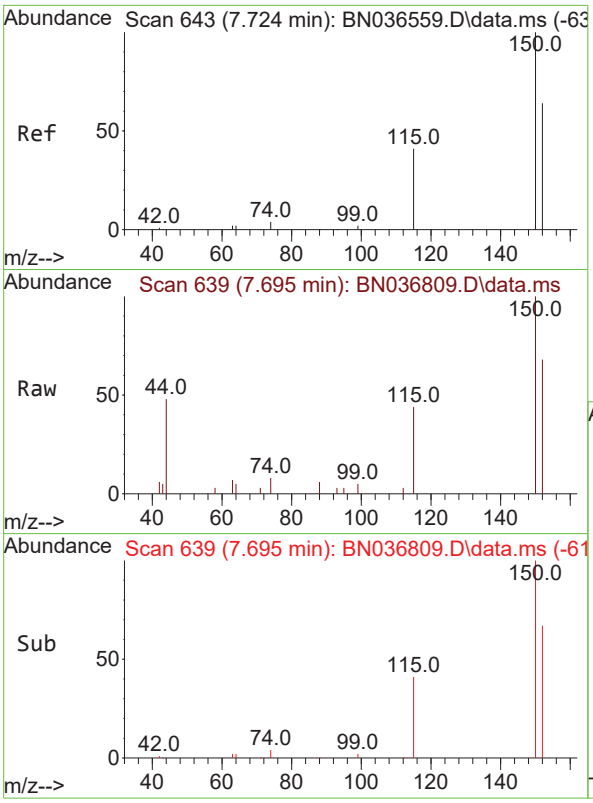
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN033125\
Data File : BN036809.D
Acq On : 31 Mar 2025 10:39
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 31 12:10:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

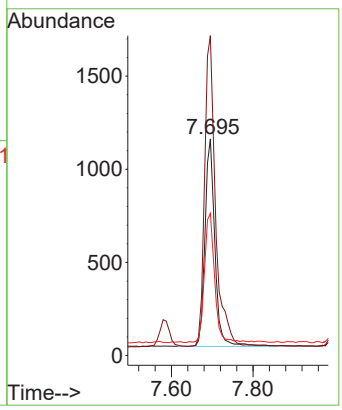




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.695 min Scan# 6
Delta R.T. -0.029 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:152 Resp: 188

Ion	Ratio	Lower	Upper
152	100		
150	147.6	123.7	185.5
115	65.7	54.3	81.5



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

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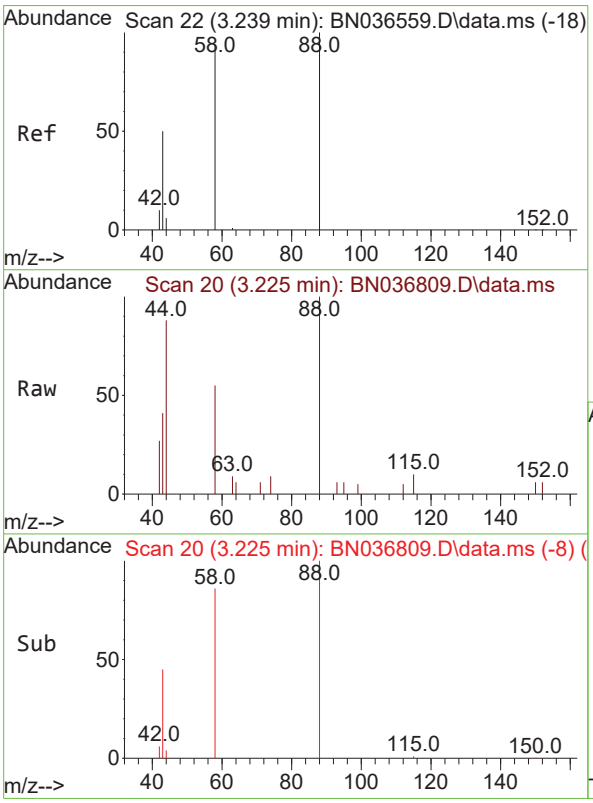
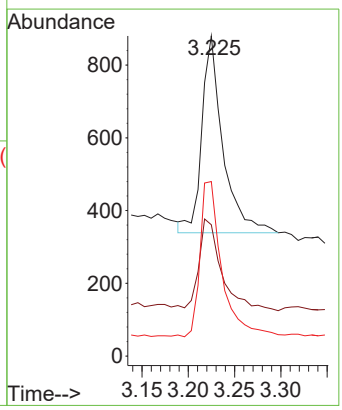
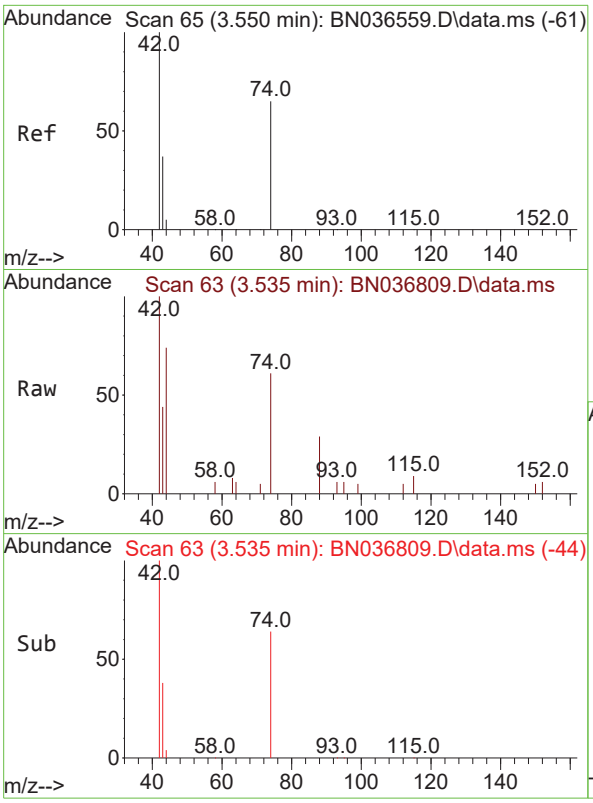


#2
1,4-Dioxane
Concen: 0.409 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion: 88 Resp: 857

Ion	Ratio	Lower	Upper
88	100		
43	50.1	37.8	56.8
58	80.6	67.4	101.2

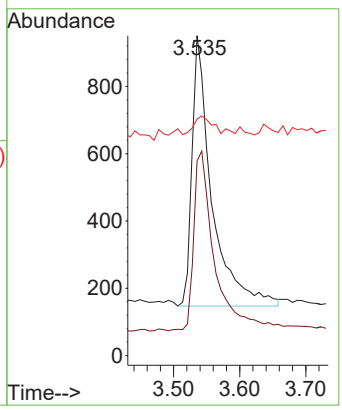




#3
n-Nitrosodimethylamine
Concen: 0.396 ng
RT: 3.535 min Scan# 6
Delta R.T. -0.014 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion: 42 Resp: 167

Ion	Ratio	Lower	Upper
42	100		
74	69.2	60.6	90.8
44	8.2	6.3	9.5



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
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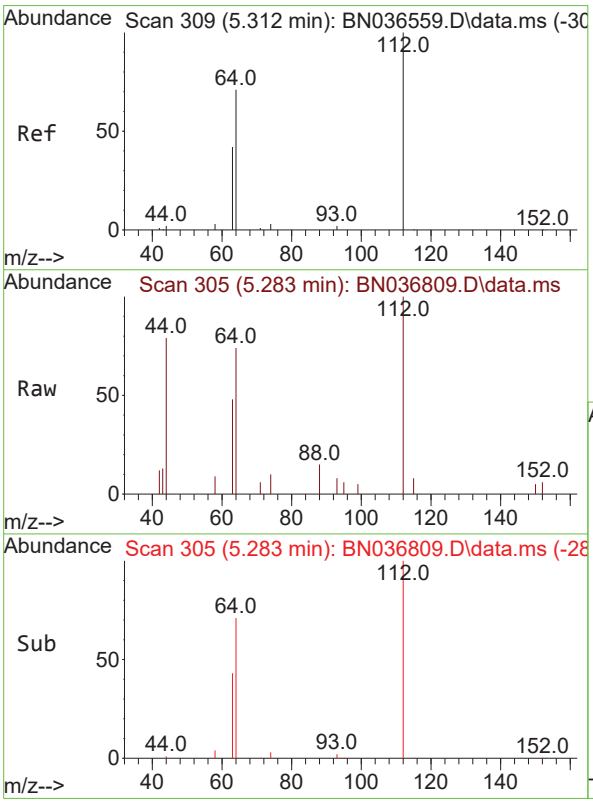
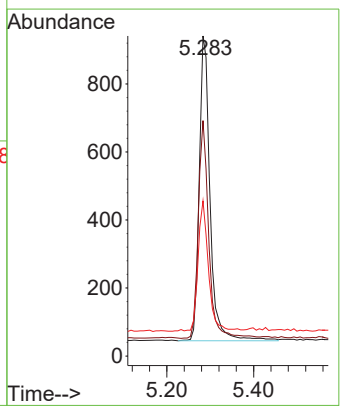
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

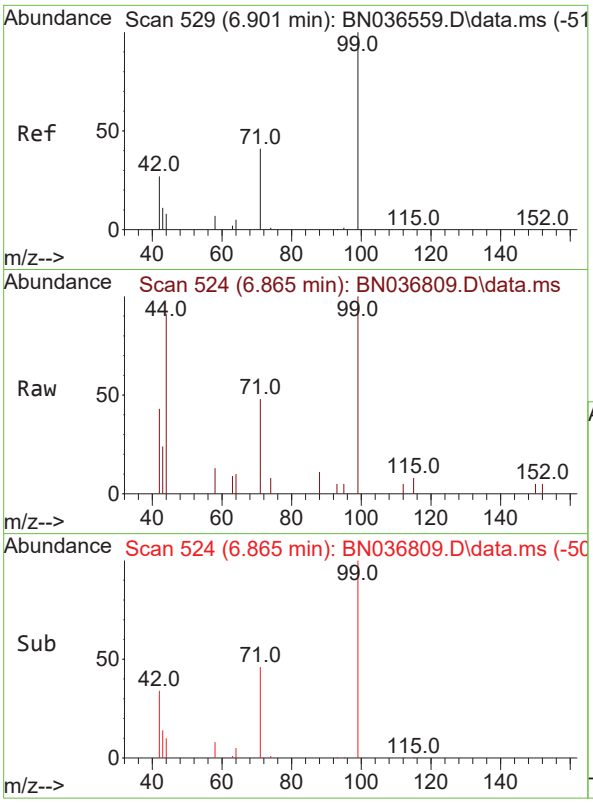


#4
2-Fluorophenol
Concen: 0.351 ng
RT: 5.283 min Scan# 305
Delta R.T. -0.029 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:112 Resp: 1544

Ion	Ratio	Lower	Upper
112	100		
64	69.6	53.1	79.7
63	40.8	31.8	47.8





#5
Phenol-d6
Concen: 0.331 ng
RT: 6.865 min Scan# 5
Delta R.T. -0.036 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion: 99 Resp: 179

Ion	Ratio	Lower	Upper
99	100		
42	37.9	26.5	39.7
71	44.8	34.1	51.1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
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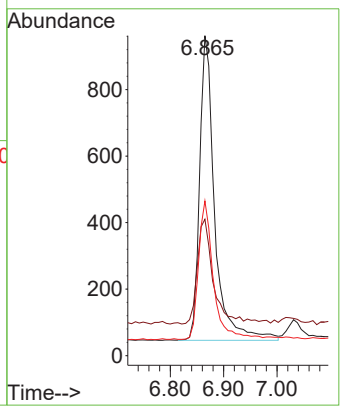
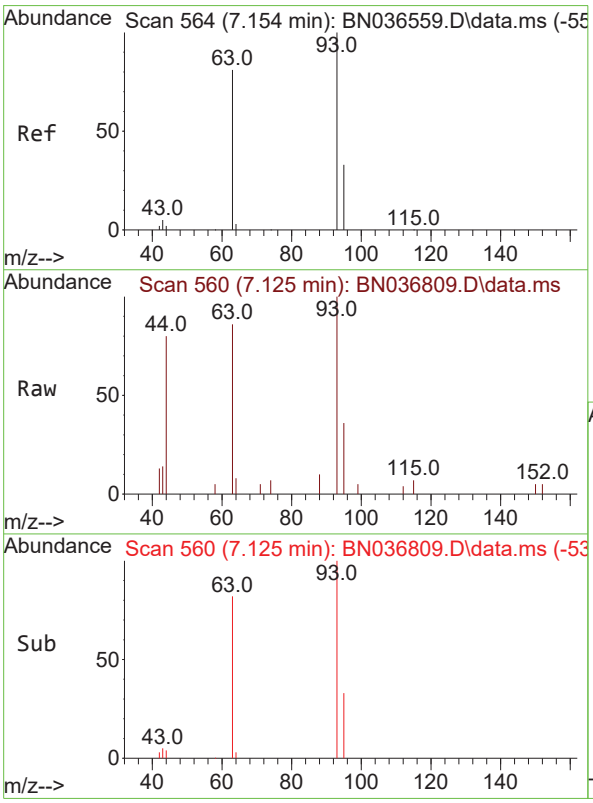
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

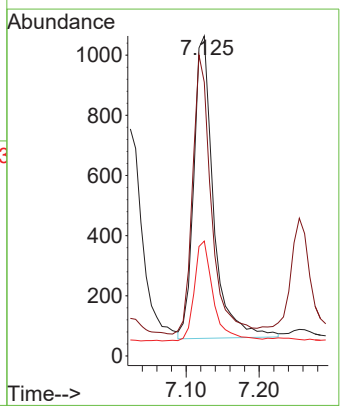


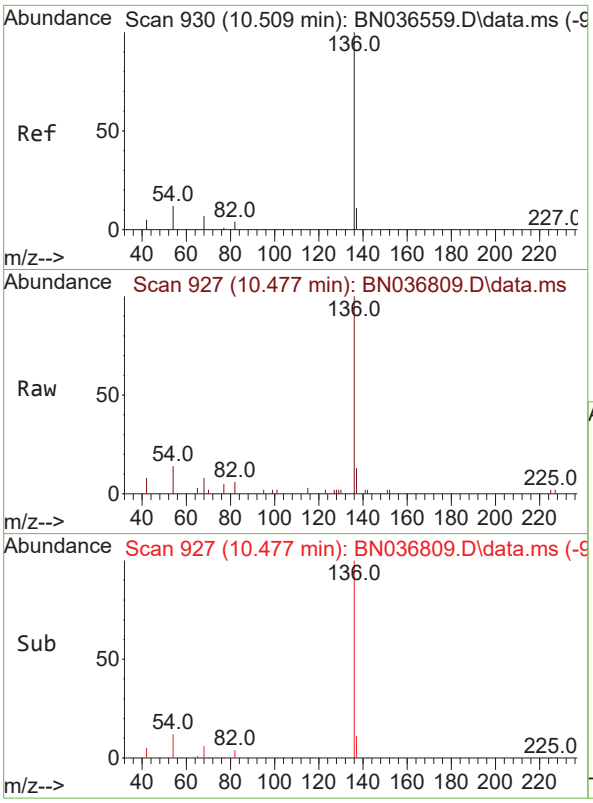


#6
bis(2-Chloroethyl)ether
Concen: 0.336 ng
RT: 7.125 min Scan# 560
Delta R.T. -0.029 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion: 93 Resp: 1889

Ion	Ratio	Lower	Upper
93	100		
63	87.3	67.7	101.5
95	31.9	25.6	38.4

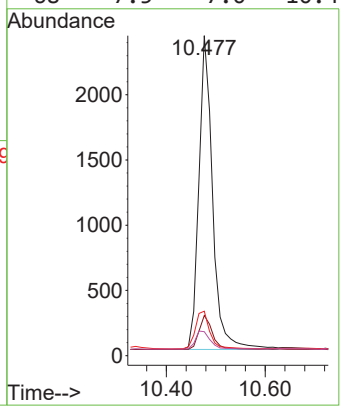




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.477 min Scan# 9
Delta R.T. -0.032 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:136 Resp: 465

Ion	Ratio	Lower	Upper
136	100		
137	12.5	10.3	15.5
54	13.9	11.5	17.3
68	7.5	7.0	10.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
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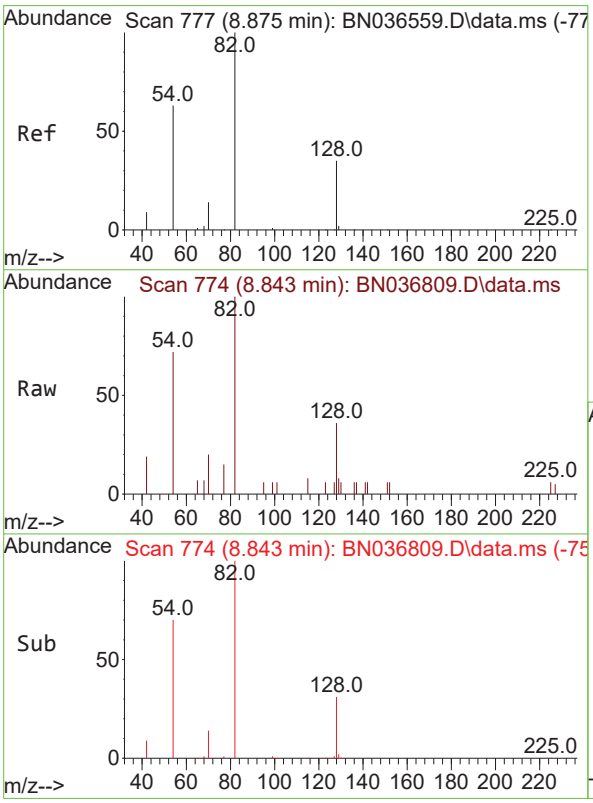
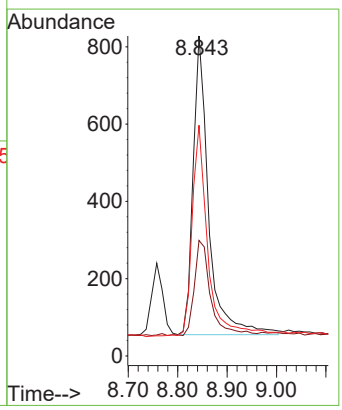
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

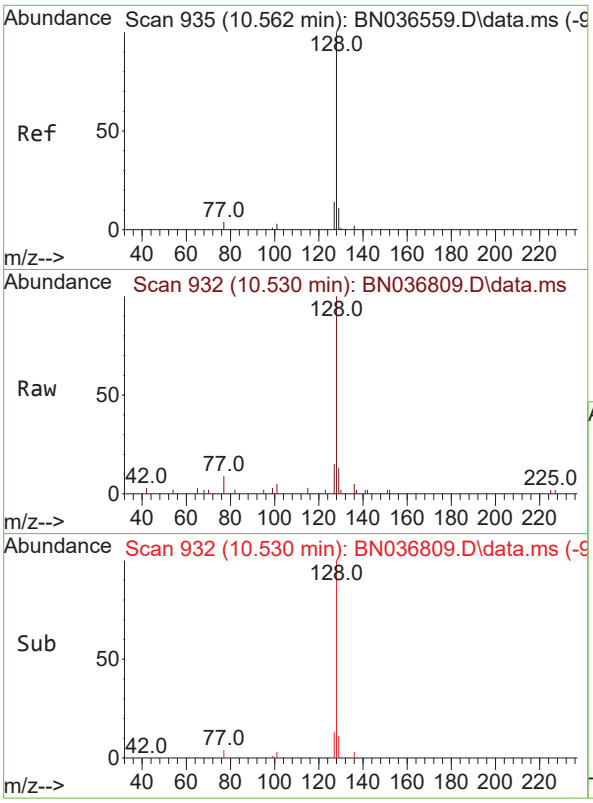


#8
Nitrobenzene-d5
Concen: 0.333 ng
RT: 8.843 min Scan# 774
Delta R.T. -0.032 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion: 82 Resp: 1689

Ion	Ratio	Lower	Upper
82	100		
128	36.1	30.6	45.8
54	72.1	52.2	78.4

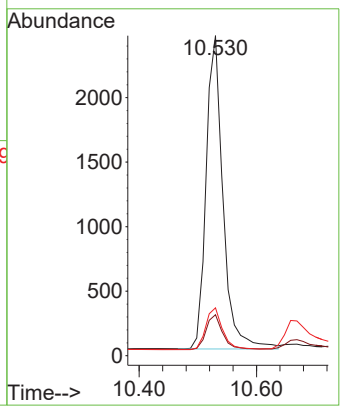




#9
Naphthalene
Concen: 0.354 ng
RT: 10.530 min Scan# 9
Delta R.T. -0.032 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:128 Resp: 485

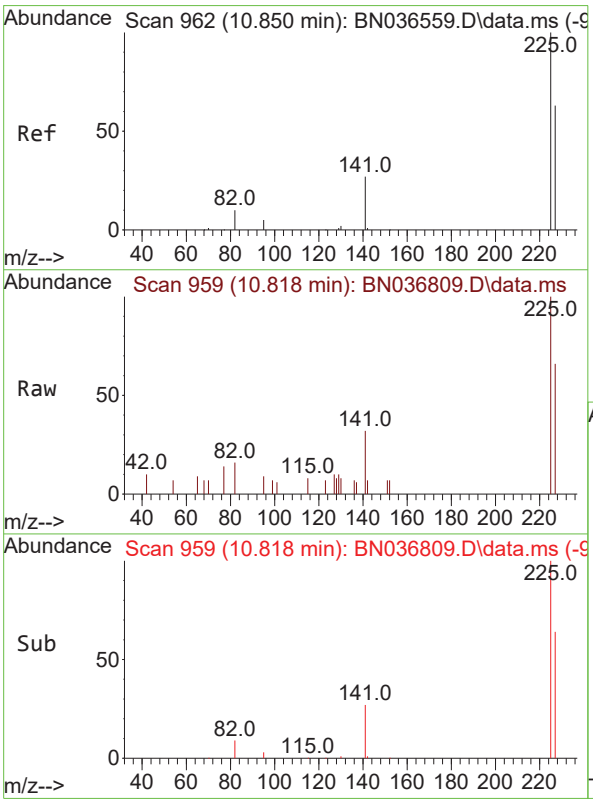
Ion	Ratio	Lower	Upper
128	100		
129	12.8	9.8	14.6
127	15.0	11.8	17.8



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

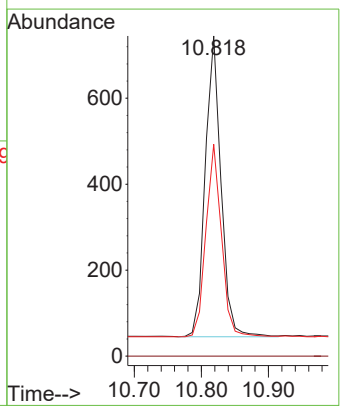
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

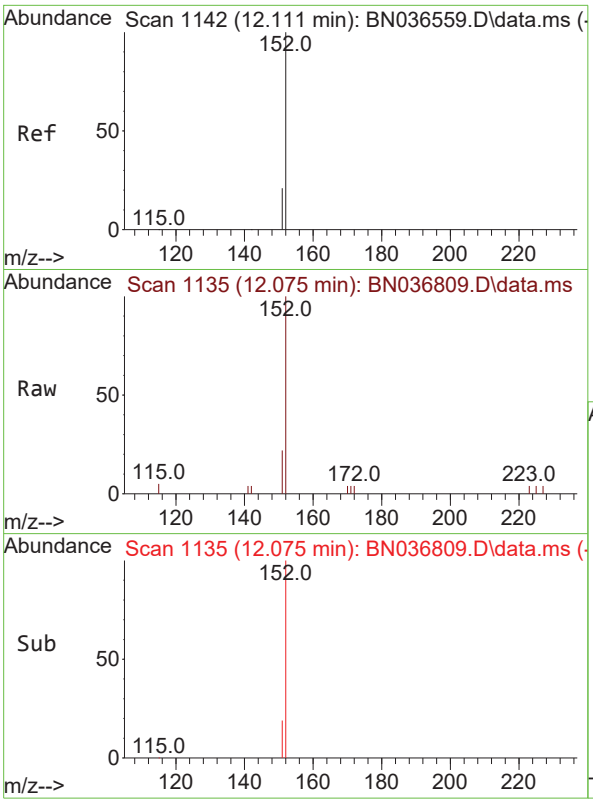


#10
Hexachlorobutadiene
Concen: 0.354 ng
RT: 10.818 min Scan# 959
Delta R.T. -0.032 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:225 Resp: 1142

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.1	51.8	77.8





#11
2-Methylnaphthalene-d10
Concen: 0.361 ng
RT: 12.075 min Scan# 11
Delta R.T. -0.035 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

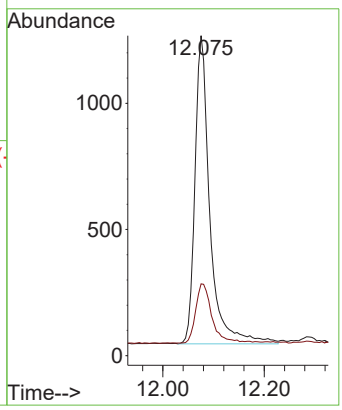
Tgt Ion:152 Resp: 250

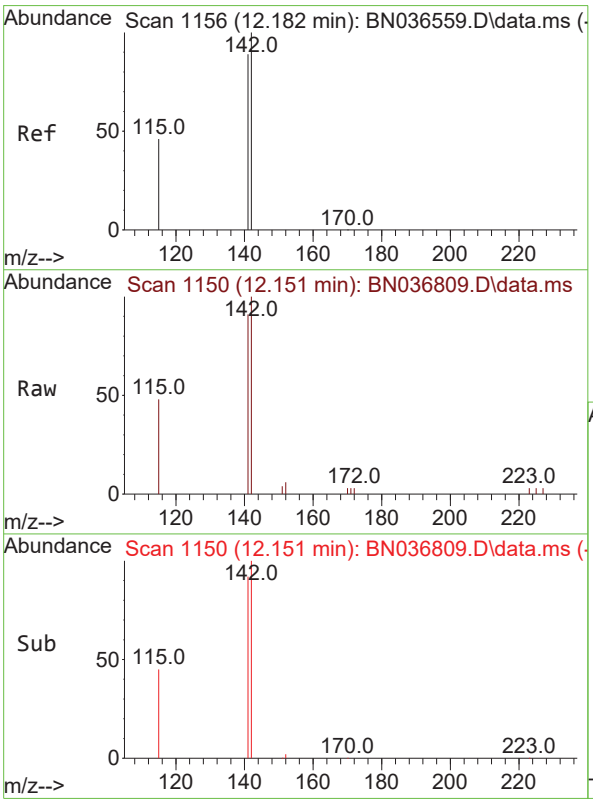
Ion	Ratio	Lower	Upper
152	100		
151	20.8	17.0	25.6

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

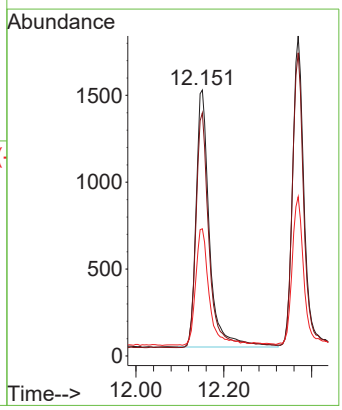


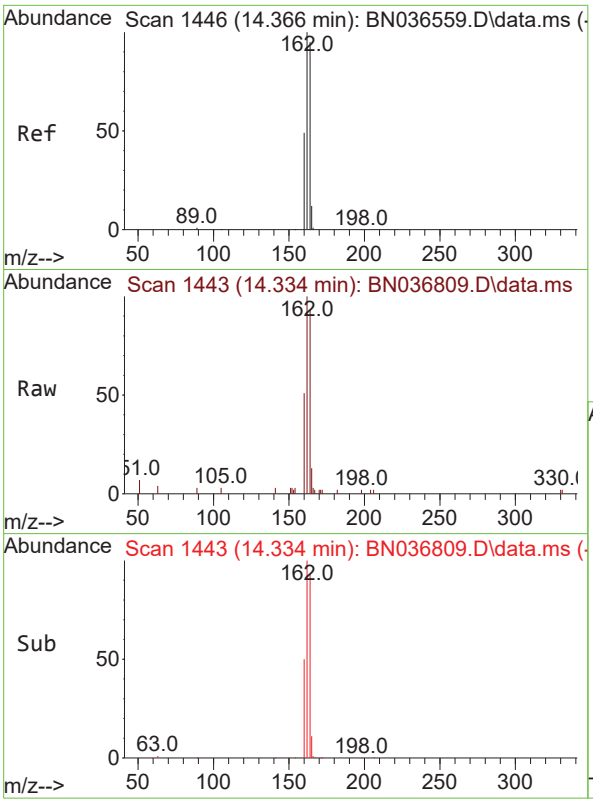


#12
2-Methylnaphthalene
Concen: 0.361 ng
RT: 12.151 min Scan# 1150
Delta R.T. -0.030 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:142 Resp: 3144

Ion	Ratio	Lower	Upper
142	100		
141	91.4	71.7	107.5
115	47.8	38.3	57.5

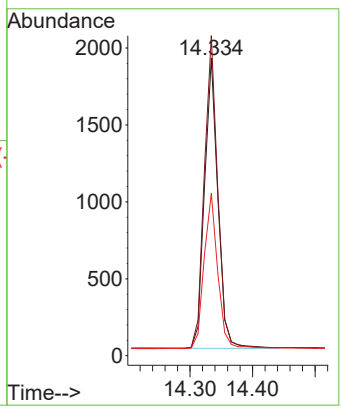




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:164 Resp: 279

Ion	Ratio	Lower	Upper
164	100		
162	107.5	84.2	126.2
160	54.6	42.2	63.2



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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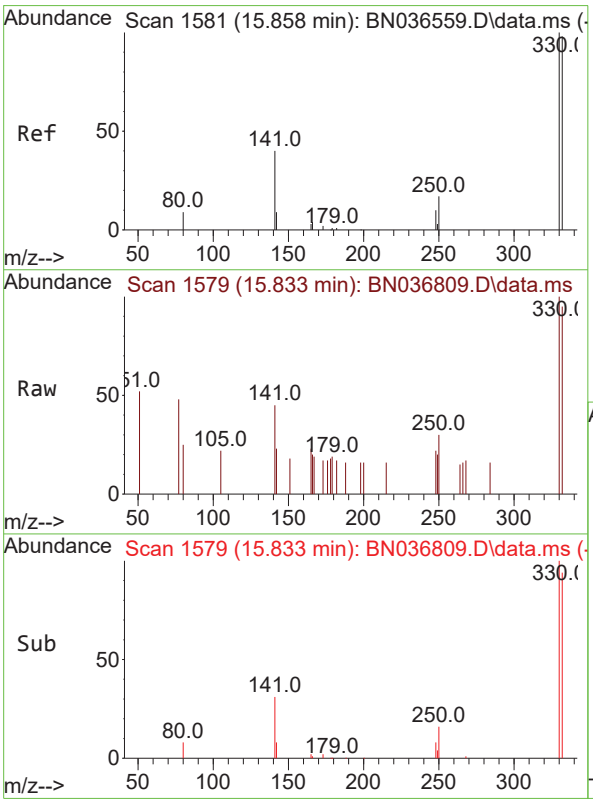
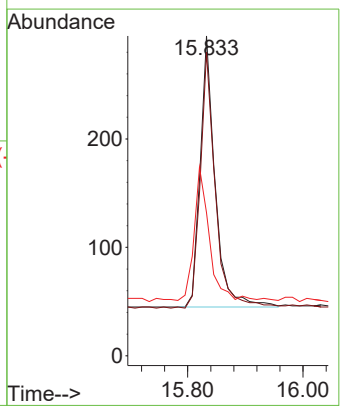
Supervised By :Jagrut Upadhyay 04/01/2025

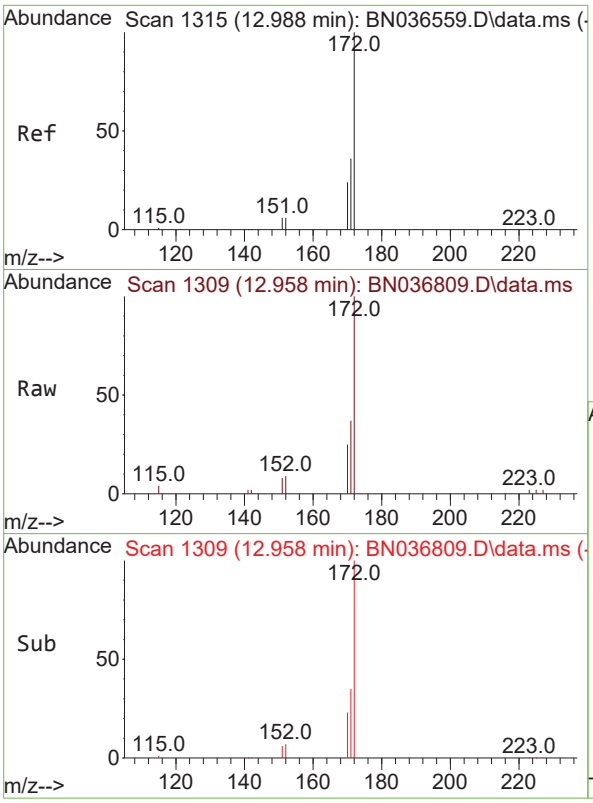


#14
2,4,6-Tribromophenol
Concen: 0.355 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.025 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:330 Resp: 451

Ion	Ratio	Lower	Upper
330	100		
332	95.3	75.2	112.8
141	53.9	43.4	65.2

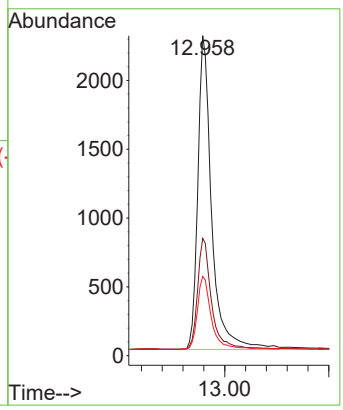




#15
2-Fluorobiphenyl
Concen: 0.340 ng
RT: 12.958 min Scan# 1
Delta R.T. -0.030 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:172 Resp: 553

Ion	Ratio	Lower	Upper
172	100		
171	36.6	29.5	44.3
170	24.8	20.2	30.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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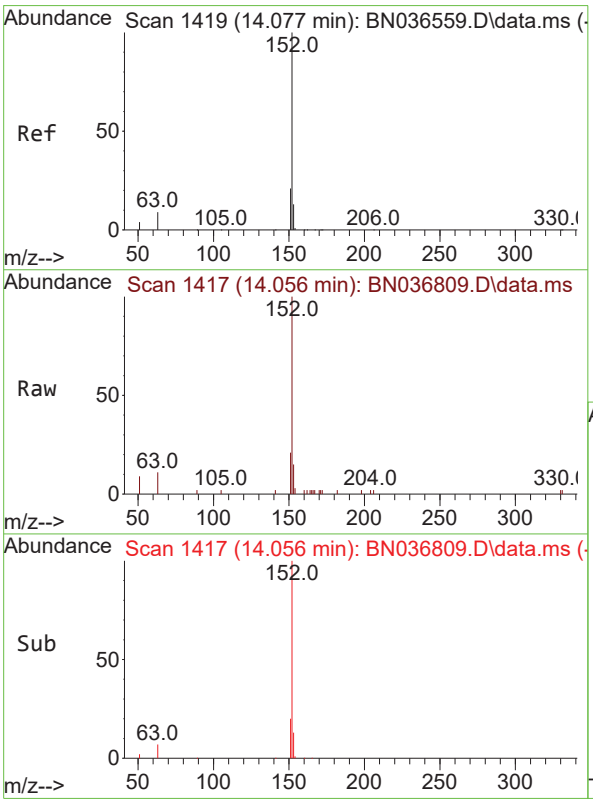
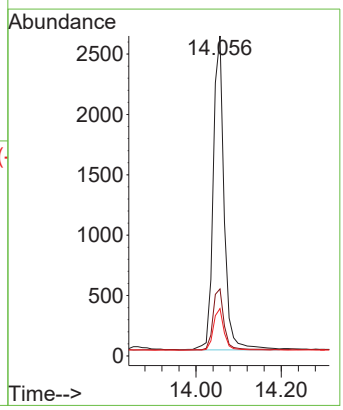
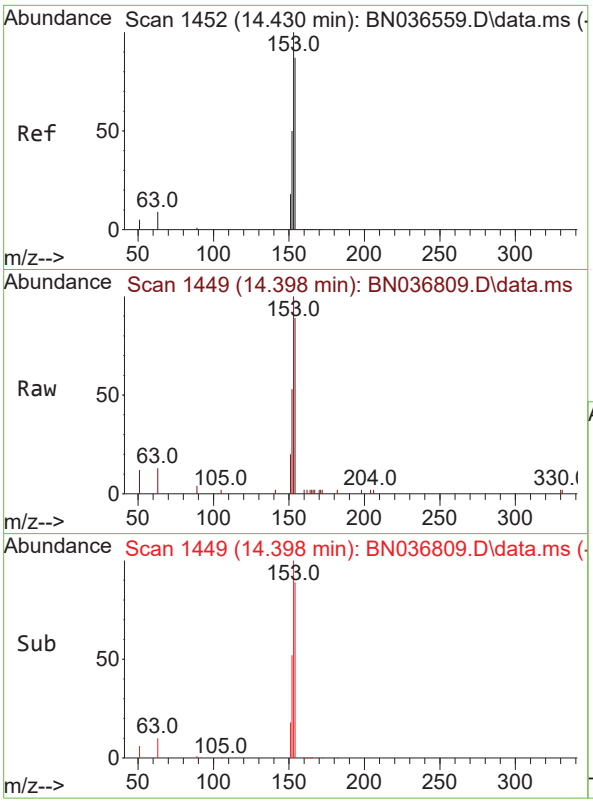


#16
Acenaphthylene
Concen: 0.350 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.021 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:152 Resp: 4617

Ion	Ratio	Lower	Upper
152	100		
151	19.5	16.2	24.4
153	13.2	10.6	15.8

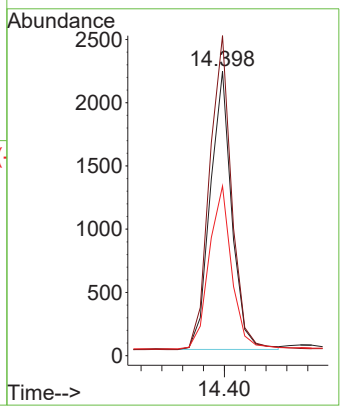




#17
Acenaphthene
Concen: 0.366 ng
RT: 14.398 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:154 Resp: 316

Ion	Ratio	Lower	Upper
154	100		
153	116.9	94.1	141.1
152	62.4	49.8	74.6



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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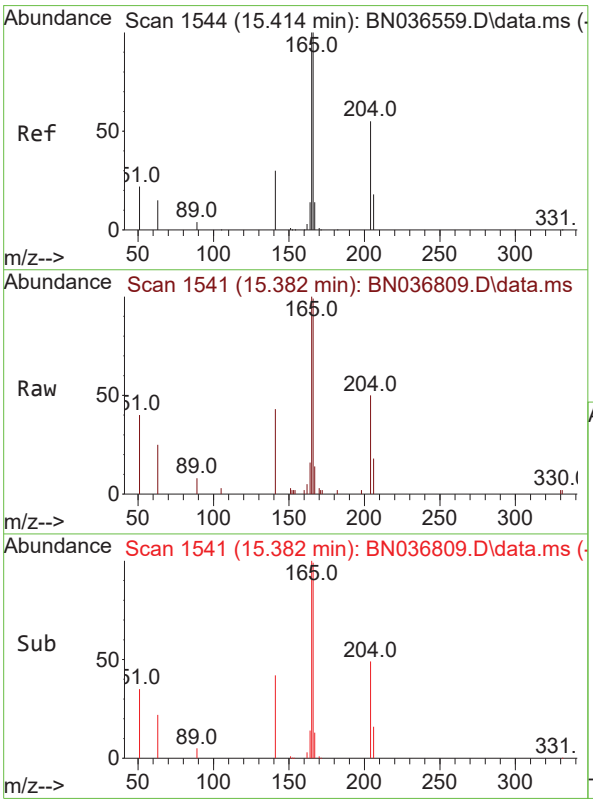
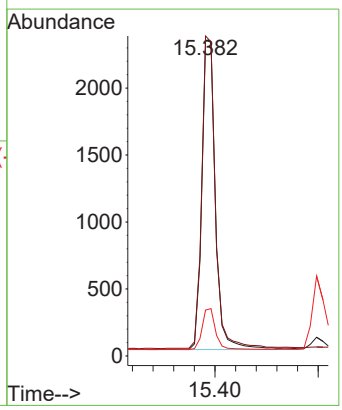
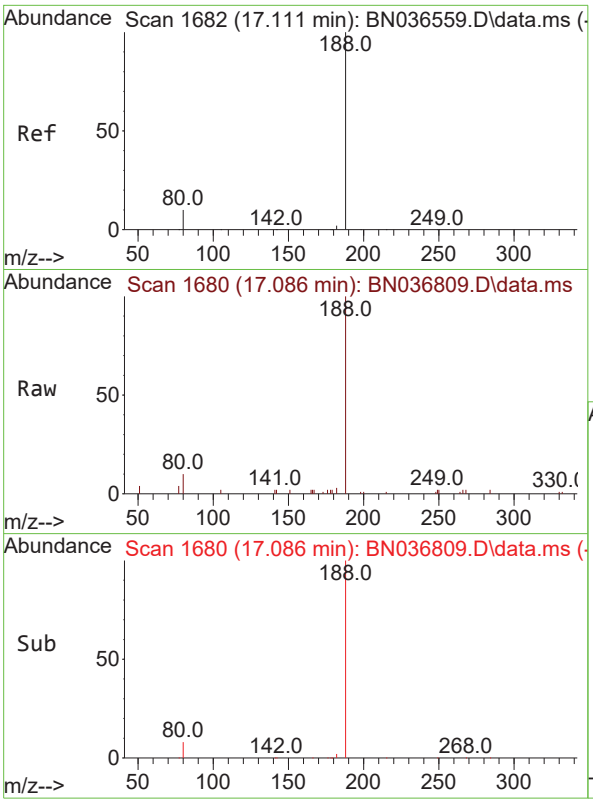


#18
Fluorene
Concen: 0.362 ng
RT: 15.382 min Scan# 1541
Delta R.T. -0.032 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:166 Resp: 4232

Ion	Ratio	Lower	Upper
166	100		
165	100.4	79.8	119.8
167	13.2	10.6	15.8

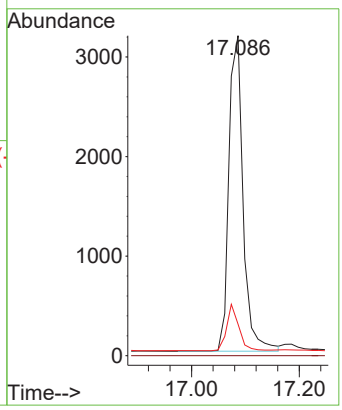




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:188 Resp: 580

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.9	8.8	13.2



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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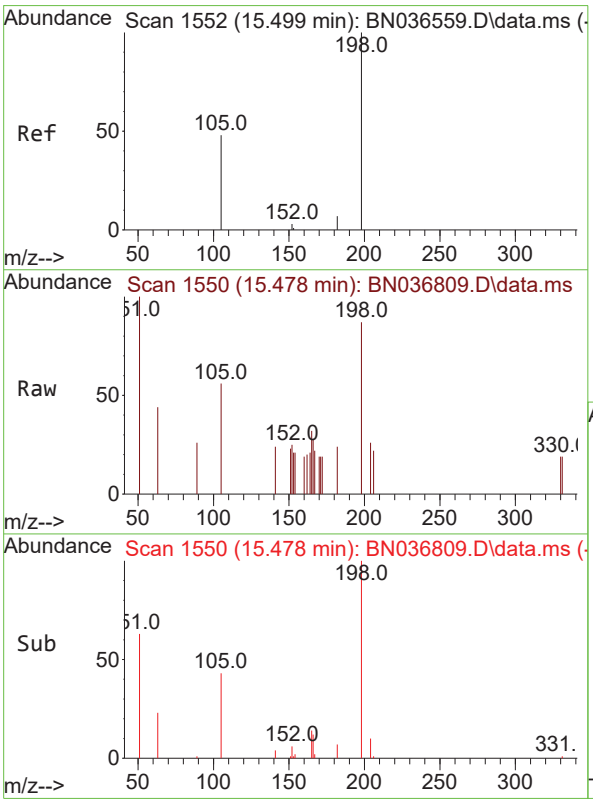
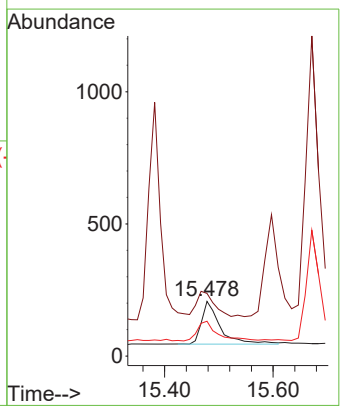
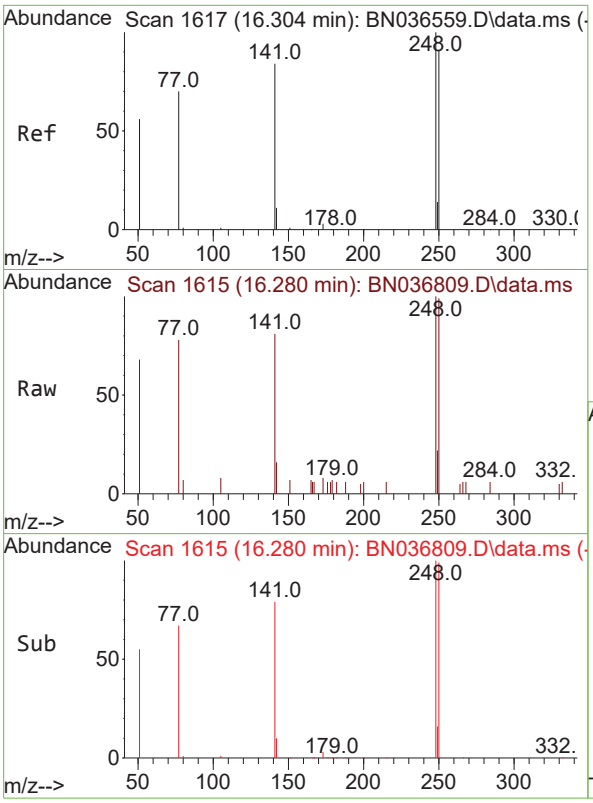


#20
4,6-Dinitro-2-methylphenol
Concen: 0.419 ng
RT: 15.478 min Scan# 1550
Delta R.T. -0.021 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:198 Resp: 405

Ion	Ratio	Lower	Upper
198	100		
51	114.5	107.9	161.9
105	63.8	56.2	84.2





#21
4-Bromophenyl-phenylether
Concen: 0.355 ng
RT: 16.280 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:248 Resp: 129

Ion	Ratio	Lower	Upper
248	100		
250	99.2	73.0	109.6
141	80.5	68.6	103.0

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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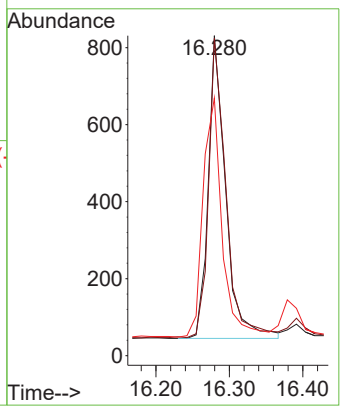
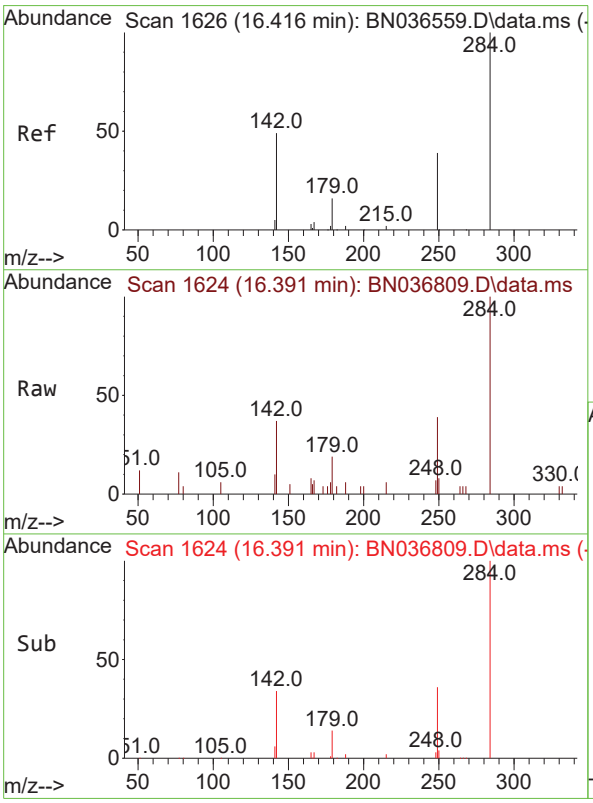
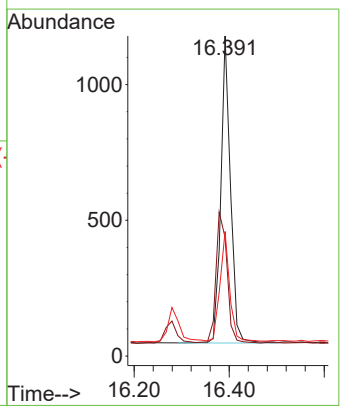


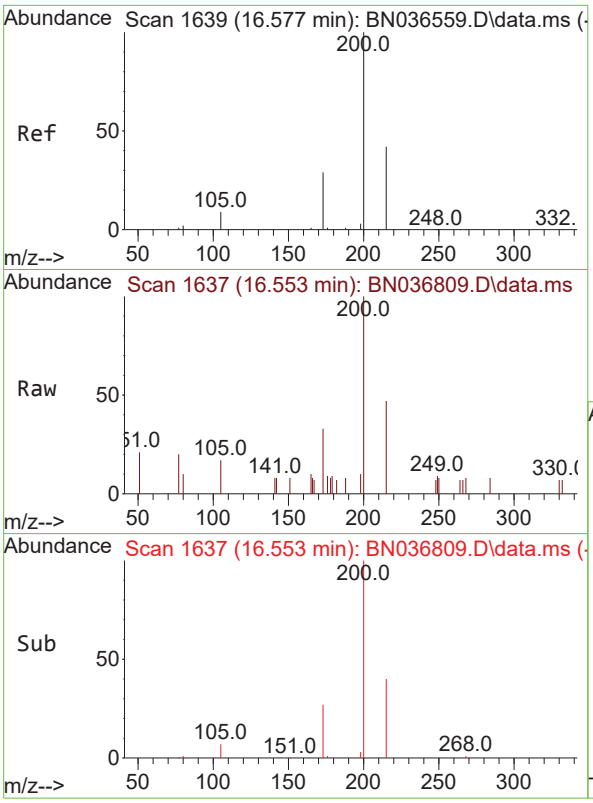


#22
Hexachlorobenzene
Concen: 0.361 ng
RT: 16.391 min Scan# 1624
Delta R.T. -0.025 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:284 Resp: 1587

Ion	Ratio	Lower	Upper
284	100		
142	49.0	37.0	55.4
249	35.5	28.1	42.1

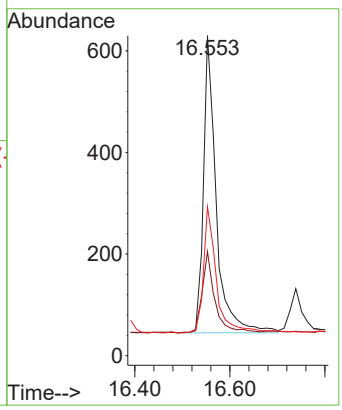




#23
Atrazine
Concen: 0.376 ng
RT: 16.553 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:200 Resp: 109(

Ion	Ratio	Lower	Upper
200	100		
173	32.5	27.3	40.9
215	46.5	36.8	55.2



Instrument :
BNA_N
ClientSampleId :
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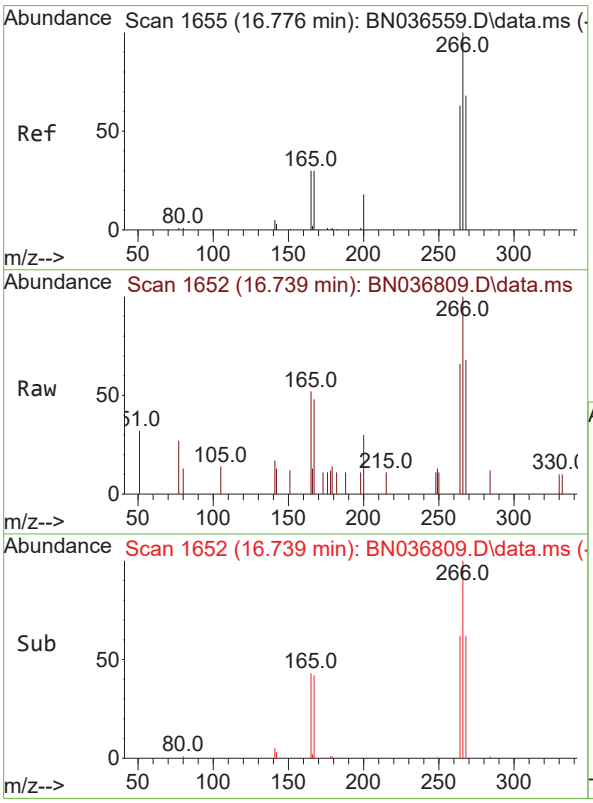
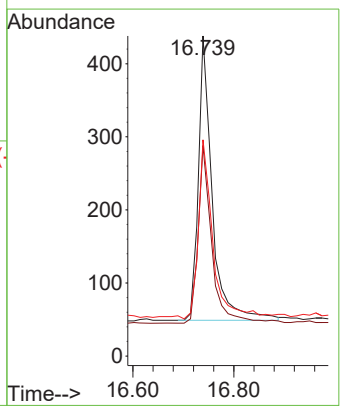
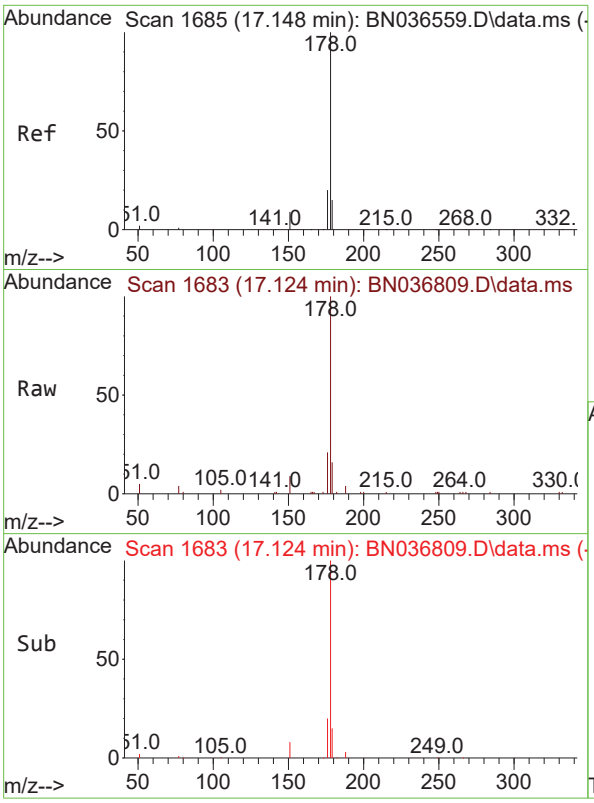


#24
Pentachlorophenol
Concen: 0.371 ng
RT: 16.739 min Scan# 1652
Delta R.T. -0.037 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:266 Resp: 743

Ion	Ratio	Lower	Upper
266	100		
264	61.8	49.6	74.4
268	66.6	50.9	76.3

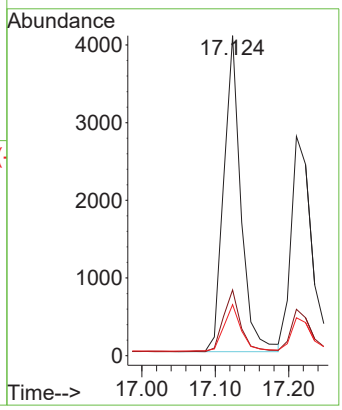




#25
Phenanthrene
Concen: 0.378 ng
RT: 17.124 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:178 Resp: 658

Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.9	23.9
179	15.1	12.2	18.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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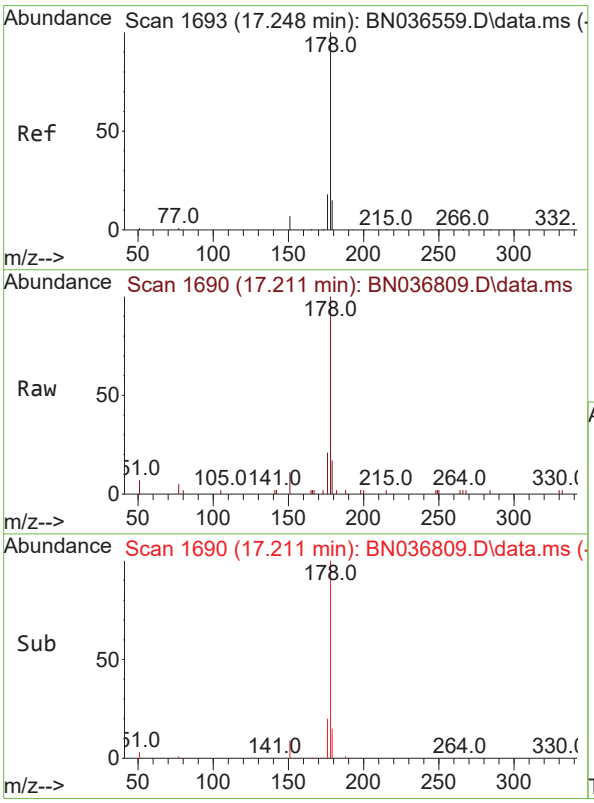
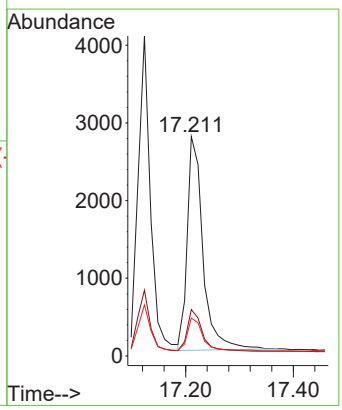
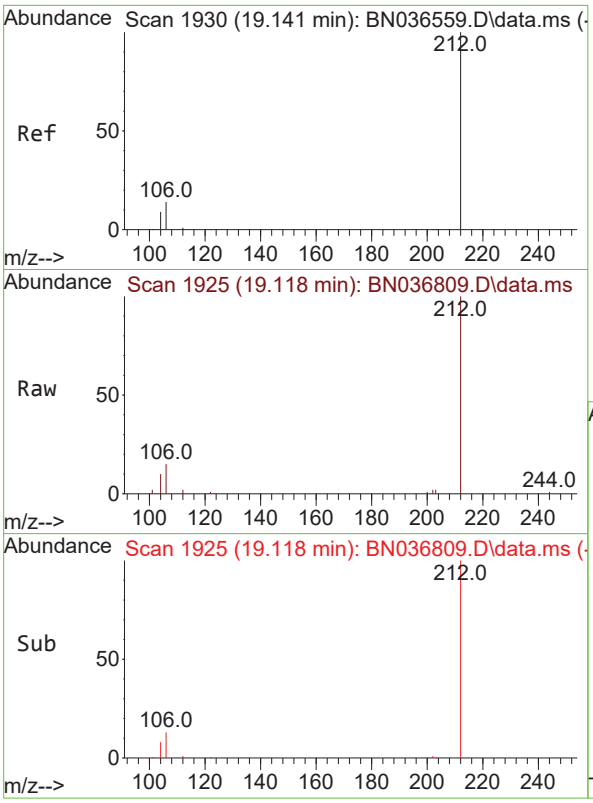


#26
Anthracene
Concen: 0.355 ng
RT: 17.211 min Scan# 1690
Delta R.T. -0.037 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:178 Resp: 5583

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.4	23.2
179	15.3	12.6	18.8

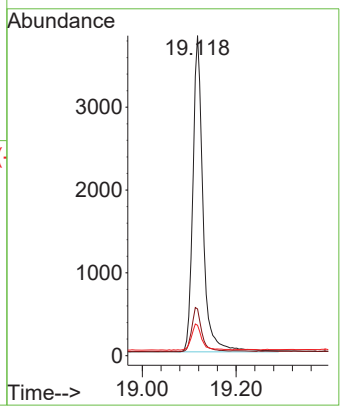




#27
Fluoranthene-d10
Concen: 0.386 ng
RT: 19.118 min Scan# 1
Delta R.T. -0.023 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:212 Resp: 575

Ion	Ratio	Lower	Upper
212	100		
106	13.6	11.8	17.6
104	8.5	7.3	10.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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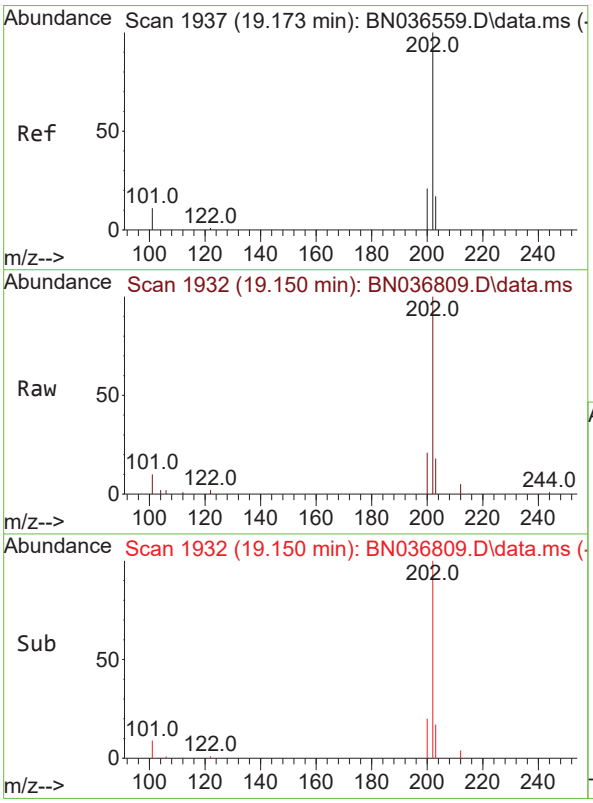
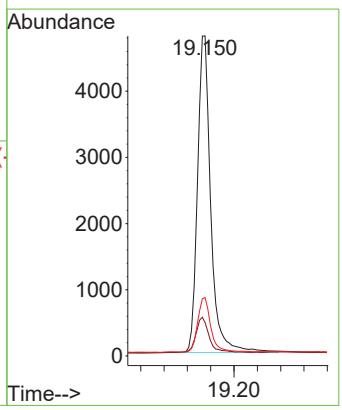
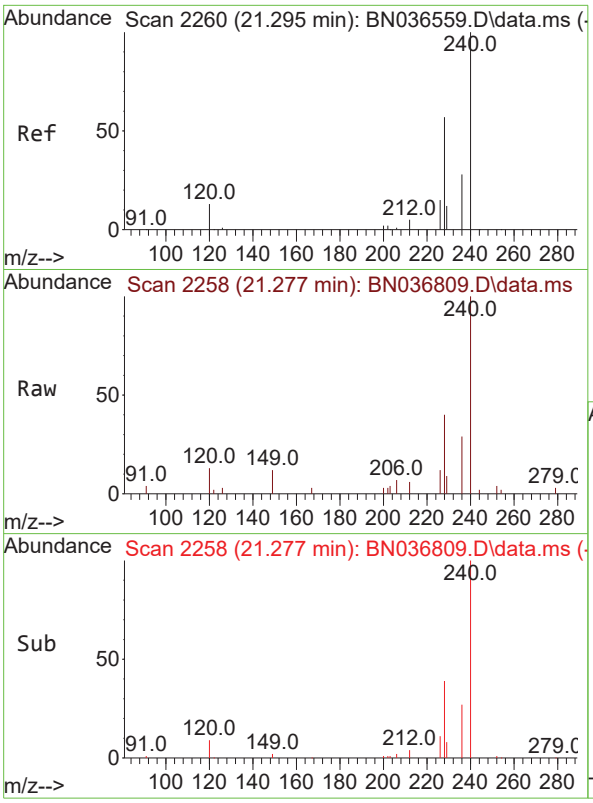


#28
Fluoranthene
Concen: 0.388 ng
RT: 19.150 min Scan# 1932
Delta R.T. -0.023 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:202 Resp: 7591

Ion	Ratio	Lower	Upper
202	100		
101	11.2	9.4	14.0
203	17.1	13.5	20.3

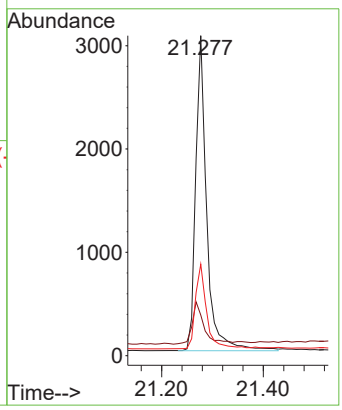




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:240 Resp: 458

Ion	Ratio	Lower	Upper
240	100		
120	12.7	14.6	22.0#
236	28.6	24.1	36.1



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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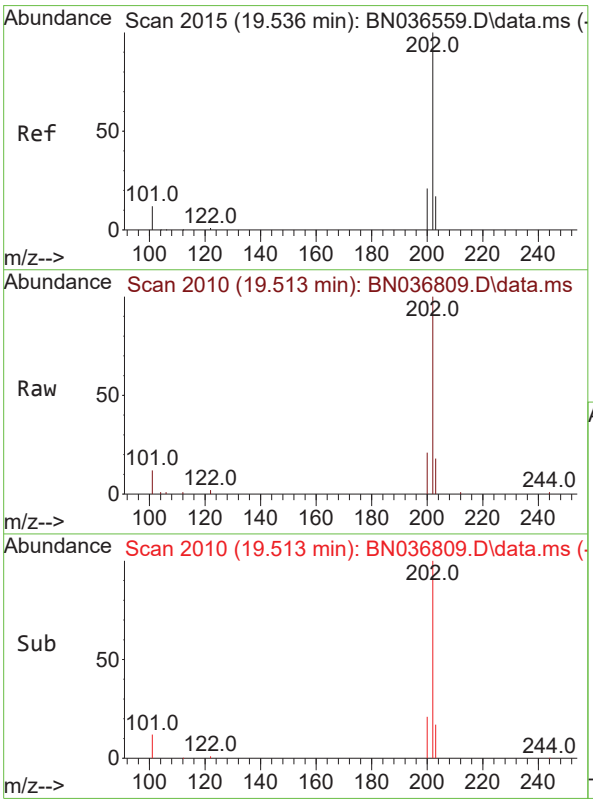
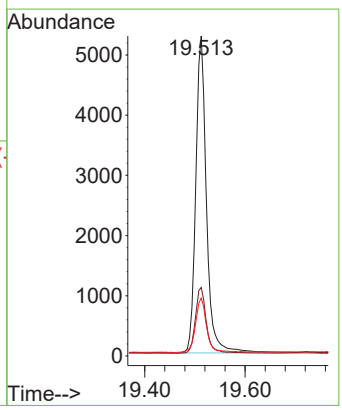
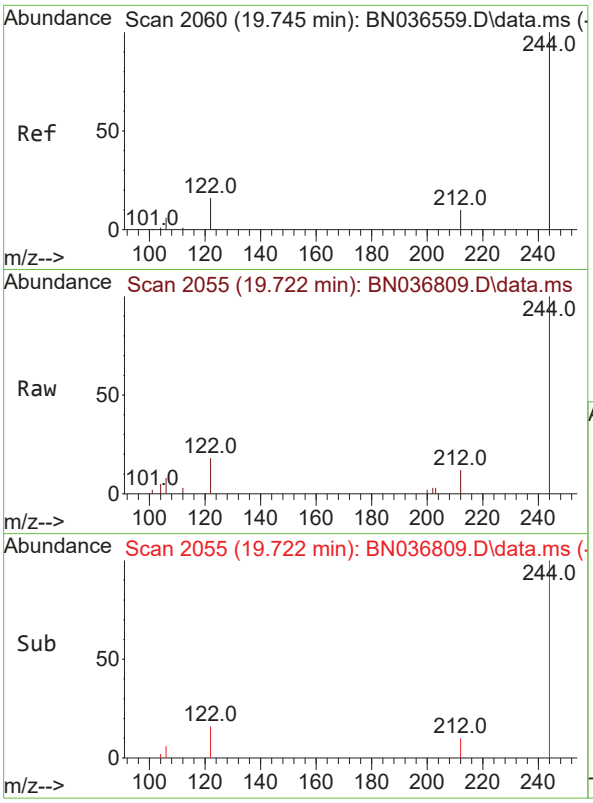


#30
Pyrene
Concen: 0.348 ng
RT: 19.513 min Scan# 2010
Delta R.T. -0.023 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:202 Resp: 7799

Ion	Ratio	Lower	Upper
202	100		
200	21.1	17.1	25.7
203	17.5	14.1	21.1

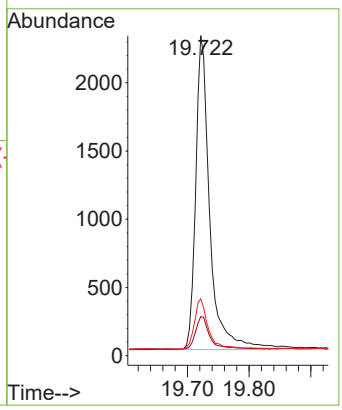




#31
Terphenyl-d14
Concen: 0.333 ng
RT: 19.722 min Scan# 2
Delta R.T. -0.023 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:244 Resp: 366

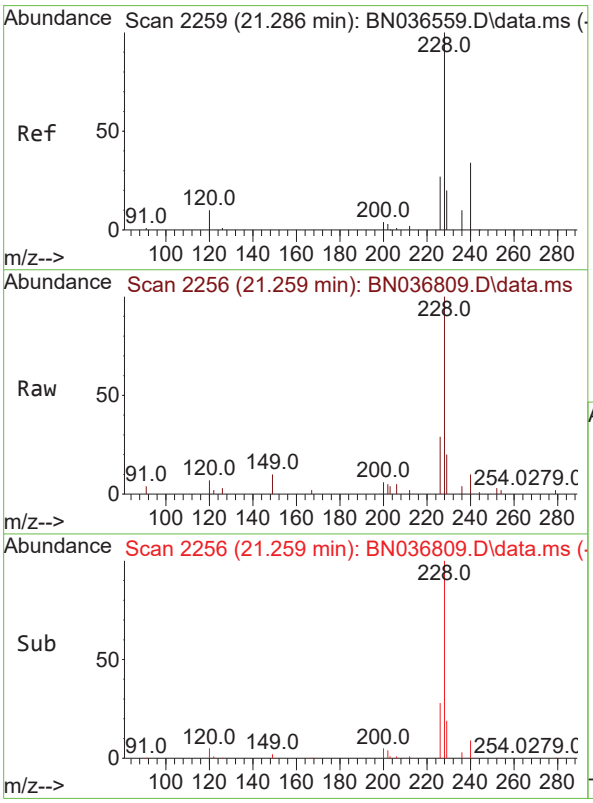
Ion	Ratio	Lower	Upper
244	100		
212	12.2	9.6	14.4
122	17.7	13.9	20.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

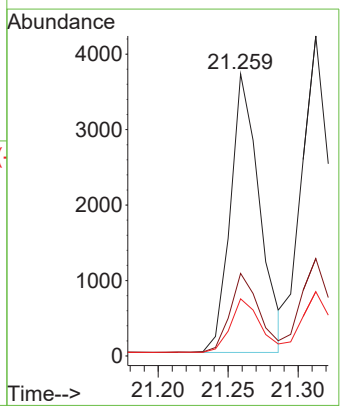
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

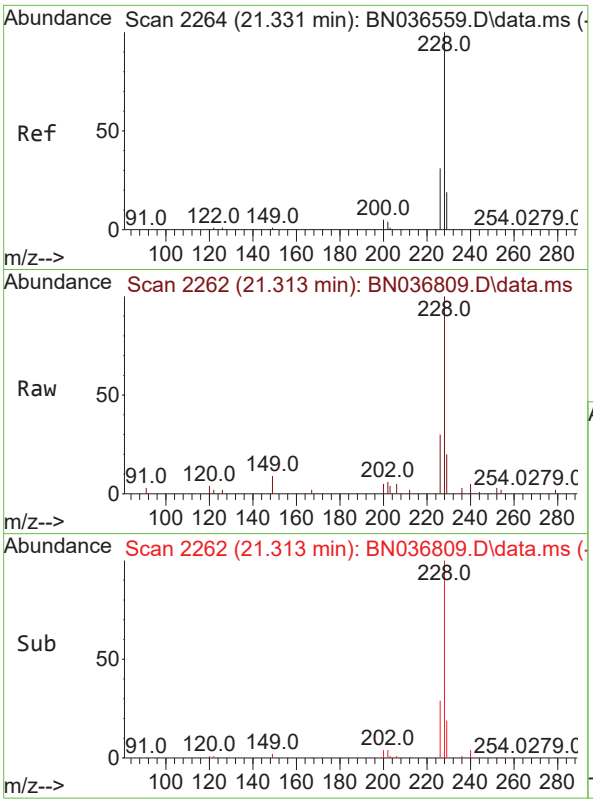


#32
Benzo(a)anthracene
Concen: 0.337 ng
RT: 21.259 min Scan# 2256
Delta R.T. -0.027 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:228 Resp: 5377

Ion	Ratio	Lower	Upper
228	100		
226	29.3	22.5	33.7
229	20.2	16.6	25.0

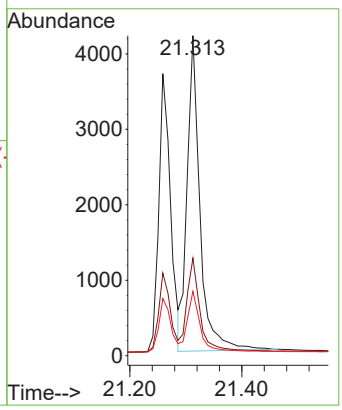




#33
Chrysene
Concen: 0.381 ng
RT: 21.313 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:228 Resp: 664

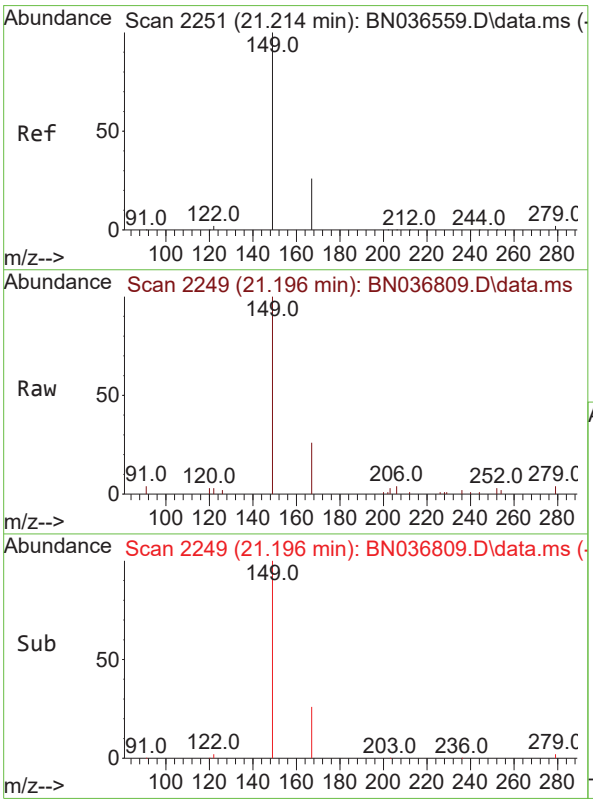
Ion	Ratio	Lower	Upper
228	100		
226	30.4	25.3	37.9
229	20.1	15.8	23.8



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

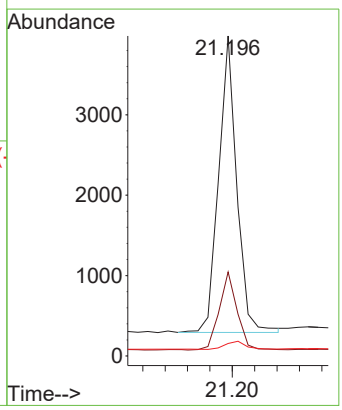
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

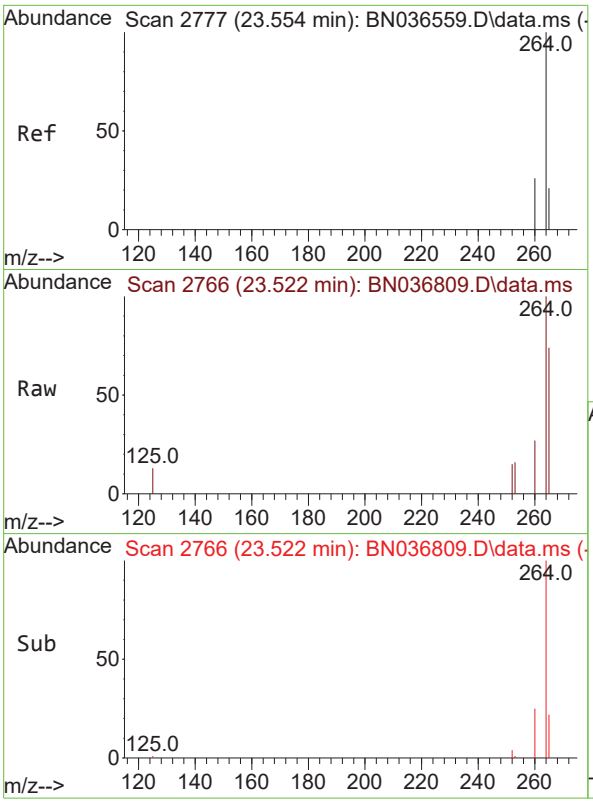


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.365 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:149 Resp: 4143

Ion	Ratio	Lower	Upper
149	100		
167	26.0	20.7	31.1
279	3.0	3.6	5.4#

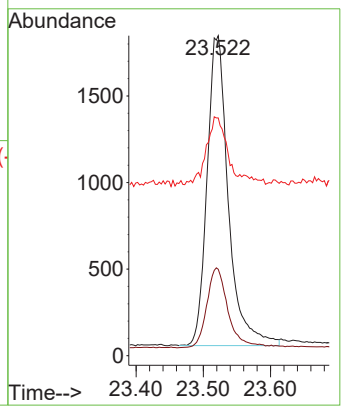




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.522 min Scan# 2
Delta R.T. -0.032 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:264 Resp: 394

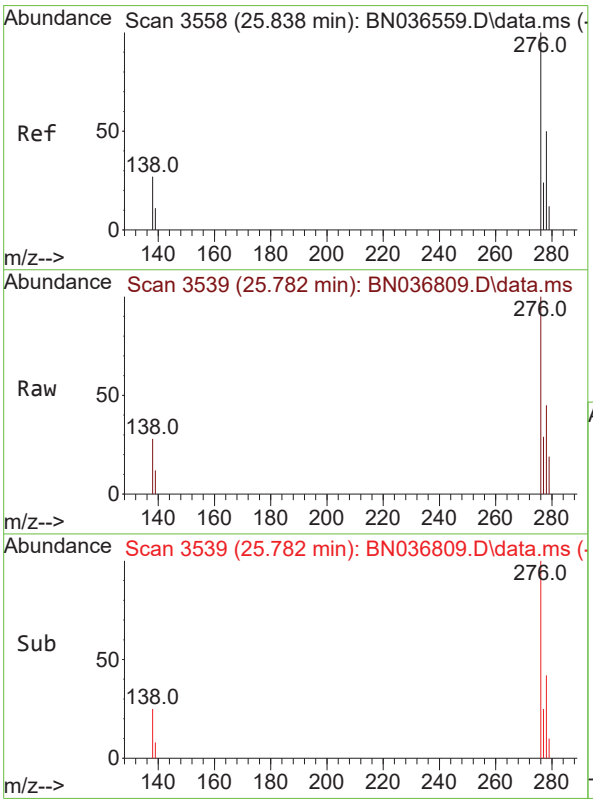
Ion	Ratio	Lower	Upper
264	100		
260	27.0	22.6	33.8
265	74.3	88.1	132.1#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

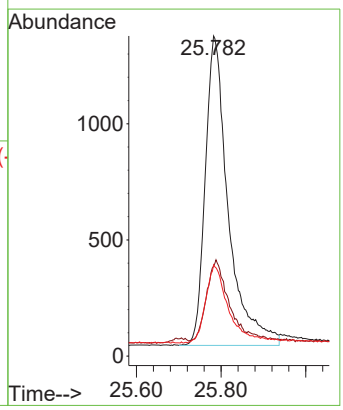
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

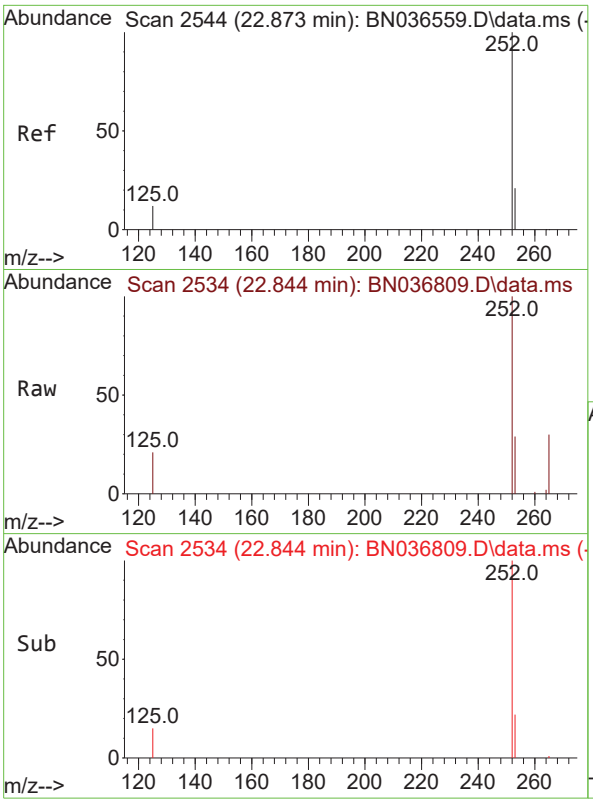


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.352 ng
RT: 25.782 min Scan# 3539
Delta R.T. -0.056 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:276 Resp: 5019

Ion	Ratio	Lower	Upper
276	100		
138	24.2	23.4	35.2
277	24.6	20.0	30.0

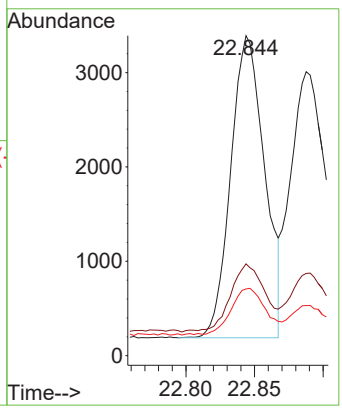




#37
Benzo(b)fluoranthene
Concen: 0.383 ng
RT: 22.844 min Scan# 2
Delta R.T. -0.029 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:252 Resp: 549

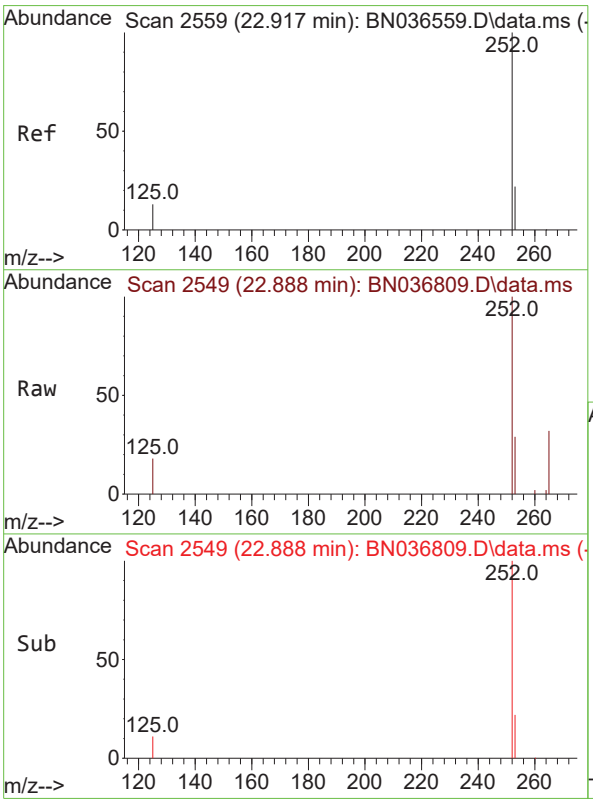
Ion	Ratio	Lower	Upper
252	100		
253	28.7	23.9	35.9
125	20.8	17.4	26.2



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

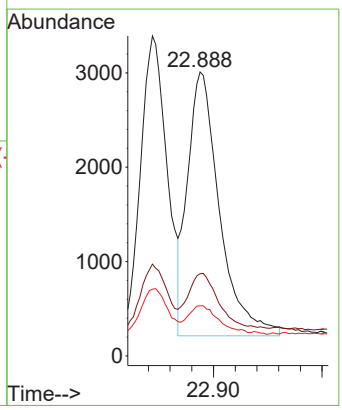
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

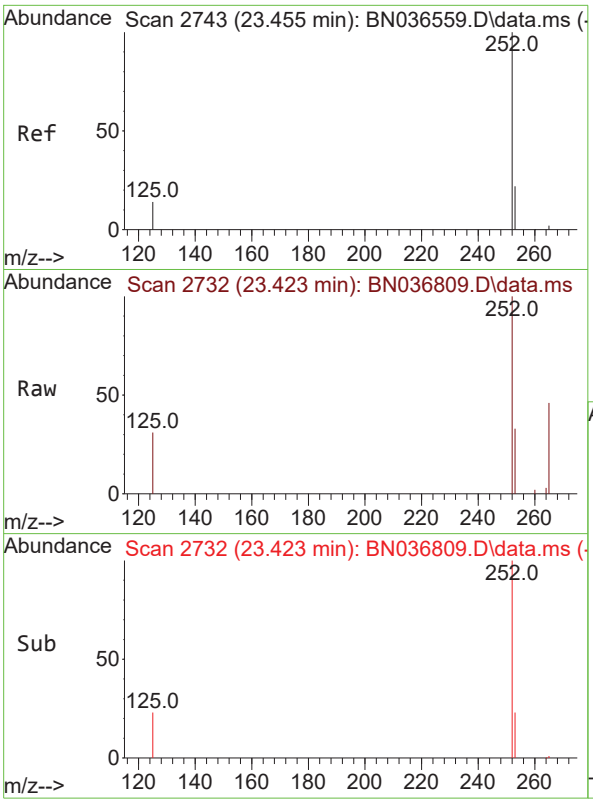


#38
Benzo(k)fluoranthene
Concen: 0.381 ng m
RT: 22.888 min Scan# 2549
Delta R.T. -0.029 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:252 Resp: 5737

Ion	Ratio	Lower	Upper
252	100		
253	28.9	24.6	36.8
125	17.6	17.8	26.8#

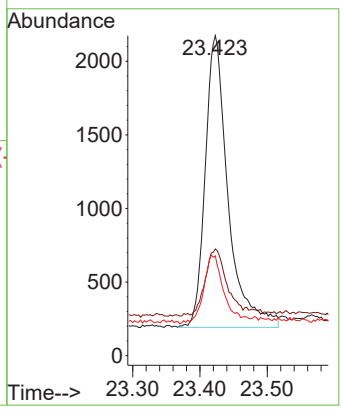




#39
Benzo(a)pyrene
Concen: 0.387 ng
RT: 23.423 min Scan# 2
Delta R.T. -0.032 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:252 Resp: 467

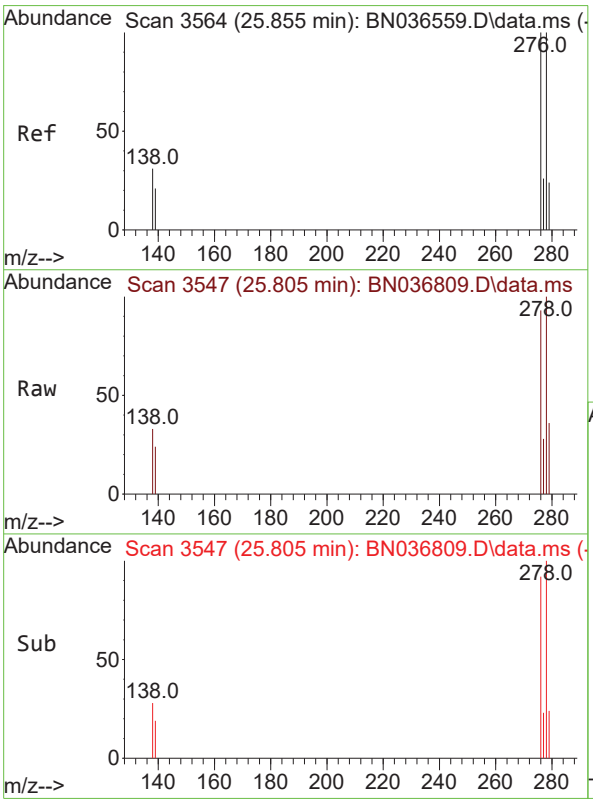
Ion	Ratio	Lower	Upper
252	100		
253	33.3	27.8	41.8
125	31.2	22.7	34.1



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

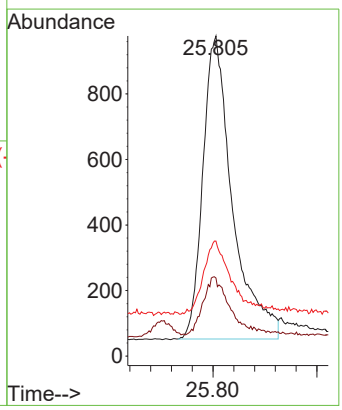
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

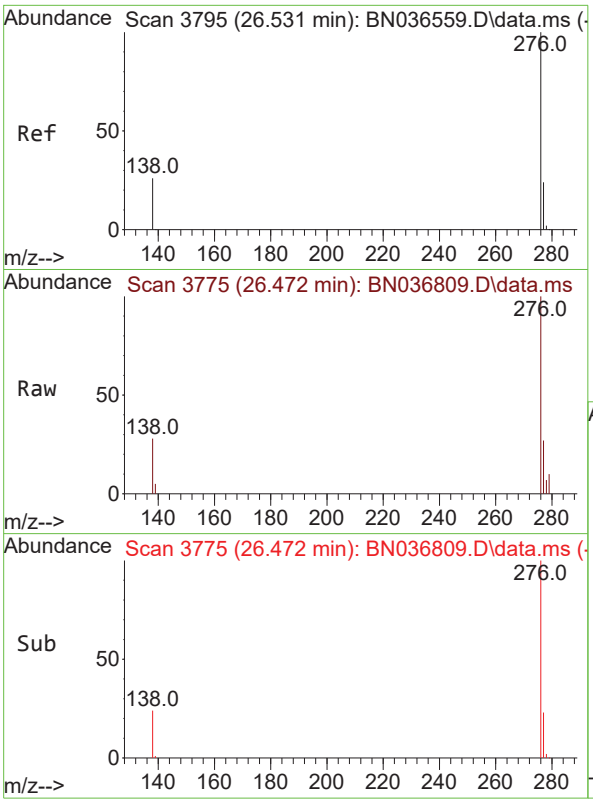


#40
Dibenzo(a,h)anthracene
Concen: 0.330 ng
RT: 25.805 min Scan# 3547
Delta R.T. -0.050 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:278 Resp: 3655

Ion	Ratio	Lower	Upper
278	100		
139	24.4	20.8	31.2
279	35.9	28.8	43.2

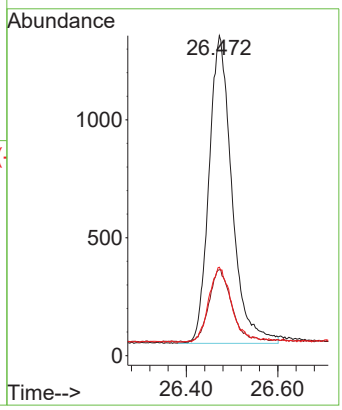




#41
Benzo(g,h,i)perylene
Concen: 0.358 ng
RT: 26.472 min Scan# 3
Delta R.T. -0.058 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:276 Resp: 454

Ion	Ratio	Lower	Upper
276	100		
277	26.8	22.2	33.4
138	27.6	24.1	36.1



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN033125\
Data File : BN036809.D
Acq On : 31 Mar 2025 10:39
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Mar 31 12:10:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 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	-0.03
2		1,4-Dioxane	0.444	0.454	-2.3	78	-0.01
3		n-Nitrosodimethylamine	0.898	0.888	1.1	81	-0.01
4	S	2-Fluorophenol	0.932	0.818	12.2	71	-0.03
5	S	Phenol-d6	1.152	0.953	17.3	72	-0.04
6		bis(2-Chloroethyl)ether	1.190	1.001	15.9	72	-0.03
7	I	Naphthalene-d8	1.000	1.000	0.0	91	-0.03
8	S	Nitrobenzene-d5	0.435	0.363	16.6	80	-0.03
9		Naphthalene	1.177	1.042	11.5	79	-0.03
10		Hexachlorobutadiene	0.277	0.245	11.6	76	-0.03
11	SURR	2-Methylnaphthalene-d10	0.595	0.537	9.7	81	-0.04
12		2-Methylnaphthalene	0.749	0.675	9.9	81	-0.03
13	I	Acenaphthene-d10	1.000	1.000	0.0	92	-0.03
14	S	2,4,6-Tribromophenol	0.182	0.161	11.5	80	-0.02
15	S	2-Fluorobiphenyl	2.327	1.979	15.0	76	-0.03
16		Acenaphthylene	1.888	1.650	12.6	79	-0.02
17		Acenaphthene	1.236	1.130	8.6	82	-0.03
18		Fluorene	1.672	1.513	9.5	79	-0.03
19	I	Phenanthrene-d10	1.000	1.000	0.0	97	-0.02
20		4,6-Dinitro-2-methylphenol	0.086	0.070	18.6	88	-0.02
21		4-Bromophenyl-phenylether	0.251	0.222	11.6	79	-0.02
22		Hexachlorobenzene	0.303	0.273	9.9	79	-0.02
23		Atrazine	0.201	0.189	6.0	86	-0.02
24		Pentachlorophenol	0.138	0.128	7.2	90	-0.04
25		Phenanthrene	1.200	1.133	5.6	85	-0.02
26		Anthracene	1.083	0.961	11.3	81	-0.04
27	SURR	Fluoranthene-d10	1.025	0.990	3.4	86	-0.02
28		Fluoranthene	1.348	1.307	3.0	87	-0.02
29	I	Chrysene-d12	1.000	1.000	0.0	112	-0.02
30		Pyrene	1.956	1.701	13.0	89	-0.02
31	S	Terphenyl-d14	0.958	0.798	16.7	87	-0.02
32		Benzo(a)anthracene	1.391	1.172	15.7	91	-0.03
33		Chrysene	1.520	1.448	4.7	100	-0.02
34		Bis(2-ethylhexyl)phthalate	0.990	0.903	8.8	97	-0.02
35	I	Perylene-d12	1.000	1.000	0.0	111	-0.03
36		Indeno(1,2,3-cd)pyrene	1.444	1.272	11.9	92	-0.06
37		Benzo(b)fluoranthene	1.456	1.393	4.3	100	-0.03
38		Benzo(k)fluoranthene	1.527	1.454	4.8	100	-0.03
39	C	Benzo(a)pyrene	1.226	1.186	3.3	101	-0.03
40		Dibenzo(a,h)anthracene	1.124	0.926	17.6	89	-0.05
41		Benzo(g,h,i)perylene	1.286	1.152	10.4	93	-0.06

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN033125\
Data File : BN036809.D
Acq On : 31 Mar 2025 10:39
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Mar 31 12:10:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 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	-0.03
2		1,4-Dioxane	0.400	0.409	-2.2	78	-0.01
3		n-Nitrosodimethylamine	0.400	0.396	1.0	81	-0.01
4	S	2-Fluorophenol	0.400	0.351	12.3	71	-0.03
5	S	Phenol-d6	0.400	0.331	17.3	72	-0.04
6		bis(2-Chloroethyl)ether	0.400	0.336	16.0	72	-0.03
7	I	Naphthalene-d8	0.400	0.400	0.0	91	-0.03
8	S	Nitrobenzene-d5	0.400	0.333	16.8	80	-0.03
9		Naphthalene	0.400	0.354	11.5	79	-0.03
10		Hexachlorobutadiene	0.400	0.354	11.5	76	-0.03
11	SURR	2-Methylnaphthalene-d10	0.400	0.361	9.8	81	-0.04
12		2-Methylnaphthalene	0.400	0.361	9.8	81	-0.03
13	I	Acenaphthene-d10	0.400	0.400	0.0	92	-0.03
14	S	2,4,6-Tribromophenol	0.400	0.355	11.3	80	-0.02
15	S	2-Fluorobiphenyl	0.400	0.340	15.0	76	-0.03
16		Acenaphthylene	0.400	0.350	12.5	79	-0.02
17		Acenaphthene	0.400	0.366	8.5	82	-0.03
18		Fluorene	0.400	0.362	9.5	79	-0.03
19	I	Phenanthrene-d10	0.400	0.400	0.0	97	-0.02
20		4,6-Dinitro-2-methylphenol	0.400	0.419	-4.7	88	-0.02
21		4-Bromophenyl-phenylether	0.400	0.355	11.3	79	-0.02
22		Hexachlorobenzene	0.400	0.361	9.8	79	-0.02
23		Atrazine	0.400	0.376	6.0	86	-0.02
24		Pentachlorophenol	0.400	0.371	7.3	90	-0.04
25		Phenanthrene	0.400	0.378	5.5	85	-0.02
26		Anthracene	0.400	0.355	11.3	81	-0.04
27	SURR	Fluoranthene-d10	0.400	0.386	3.5	86	-0.02
28		Fluoranthene	0.400	0.388	3.0	87	-0.02
29	I	Chrysene-d12	0.400	0.400	0.0	112	-0.02
30		Pyrene	0.400	0.348	13.0	89	-0.02
31	S	Terphenyl-d14	0.400	0.333	16.8	87	-0.02
32		Benzo(a)anthracene	0.400	0.337	15.8	91	-0.03
33		Chrysene	0.400	0.381	4.8	100	-0.02
34		Bis(2-ethylhexyl)phthalate	0.400	0.365	8.8	97	-0.02
35	I	Perylene-d12	0.400	0.400	0.0	111	-0.03
36		Indeno(1,2,3-cd)pyrene	0.400	0.352	12.0	92	-0.06
37		Benzo(b)fluoranthene	0.400	0.383	4.3	100	-0.03
38		Benzo(k)fluoranthene	0.400	0.381	4.8	100	-0.03
39	C	Benzo(a)pyrene	0.400	0.387	3.3	101	-0.03
40		Dibenzo(a,h)anthracene	0.400	0.330	17.5	89	-0.05
41		Benzo(g,h,i)perylene	0.400	0.358	10.5	93	-0.06

(#) = 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: TETR06

Lab Code: CHEM Case No.: Q1621 SAS No.: Q1621 SDG No.: Q1621

Instrument ID: BNA_N Calibration Date/Time: 03/31/2025 15:08

Lab File ID: BN036815.D Init. Calib. Date(s): 03/10/2025 03/10/2025

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 11:42 15:19

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.595	0.543		-8.7	50.0
Fluoranthene-d10	1.025	0.994		-3.0	50.0
2-Fluorophenol	0.932	0.839		-10.0	50.0
Phenol-d6	1.152	0.976		-15.3	50.0
Nitrobenzene-d5	0.435	0.348		-20.0	50.0
2-Fluorobiphenyl	2.327	1.957		-15.9	50.0
2,4,6-Tribromophenol	0.182	0.159		-12.6	50.0
Terphenyl-d14	0.958	0.842		-12.1	50.0
1,4-Dioxane	0.444	0.447		0.7	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN033125\
Data File : BN036815.D
Acq On : 31 Mar 2025 15:08
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 31 15:30:13 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.696	152	1563	0.400	ng		-0.03
7) Naphthalene-d8	10.477	136	4089	0.400	ng		-0.03
13) Acenaphthene-d10	14.334	164	2524	0.400	ng		-0.03
19) Phenanthrene-d10	17.087	188	5032	0.400	ng		-0.02
29) Chrysene-d12	21.277	240	3863	0.400	ng		-0.02
35) Perylene-d12	23.525	264	3435	0.400	ng		#-0.03
System Monitoring Compounds							
4) 2-Fluorophenol	5.283	112	1311	0.360	ng		-0.03
5) Phenol-d6	6.865	99	1525	0.339	ng		-0.04
8) Nitrobenzene-d5	8.843	82	1424	0.320	ng		-0.03
11) 2-Methylnaphthalene-d10	12.075	152	2219	0.365	ng		-0.04
14) 2,4,6-Tribromophenol	15.833	330	402	0.351	ng		-0.02
15) 2-Fluorobiphenyl	12.963	172	4939	0.336	ng		-0.03
27) Fluoranthene-d10	19.118	212	5000	0.388	ng		-0.02
31) Terphenyl-d14	19.726	244	3254	0.352	ng		-0.02
Target Compounds							Qvalue
2) 1,4-Dioxane	3.225	88	698	0.403	ng		97
3) n-Nitrosodimethylamine	3.536	42	1430	0.408	ng		93
6) bis(2-Chloroethyl)ether	7.118	93	1597	0.343	ng		98
9) Naphthalene	10.530	128	4210	0.350	ng		99
10) Hexachlorobutadiene	10.818	225	998	0.352	ng	#	99
12) 2-Methylnaphthalene	12.151	142	2722	0.356	ng		99
16) Acenaphthylene	14.056	152	4054	0.340	ng		100
17) Acenaphthene	14.398	154	2777	0.356	ng		99
18) Fluorene	15.393	166	3732	0.354	ng		99
20) 4,6-Dinitro-2-methylph...	15.478	198	396	0.454	ng		85
21) 4-Bromophenyl-phenylether	16.280	248	1144	0.363	ng		94
22) Hexachlorobenzene	16.391	284	1380	0.363	ng		95
23) Atrazine	16.553	200	954	0.377	ng		97
24) Pentachlorophenol	16.739	266	651	0.375	ng		97
25) Phenanthrene	17.124	178	5703	0.378	ng		100
26) Anthracene	17.223	178	4933	0.362	ng		99
28) Fluoranthene	19.150	202	6761	0.399	ng		98
30) Pyrene	19.513	202	6826	0.361	ng		100
32) Benzo(a)anthracene	21.268	228	4715	0.351	ng		99
33) Chrysene	21.313	228	5650	0.385	ng		100
34) Bis(2-ethylhexyl)phtha...	21.196	149	3477	0.364	ng	#	99
36) Indeno(1,2,3-cd)pyrene	25.800	276	4428	0.357	ng		94
37) Benzo(b)fluoranthene	22.850	252	4732	0.379	ng		98
38) Benzo(k)fluoranthene	22.897	252	5156m	0.393	ng		
39) Benzo(a)pyrene	23.429	252	4200	0.399	ng		97
40) Dibenzo(a,h)anthracene	25.811	278	3277	0.340	ng		97
41) Benzo(g,h,i)perylene	26.484	276	4006	0.363	ng		97

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

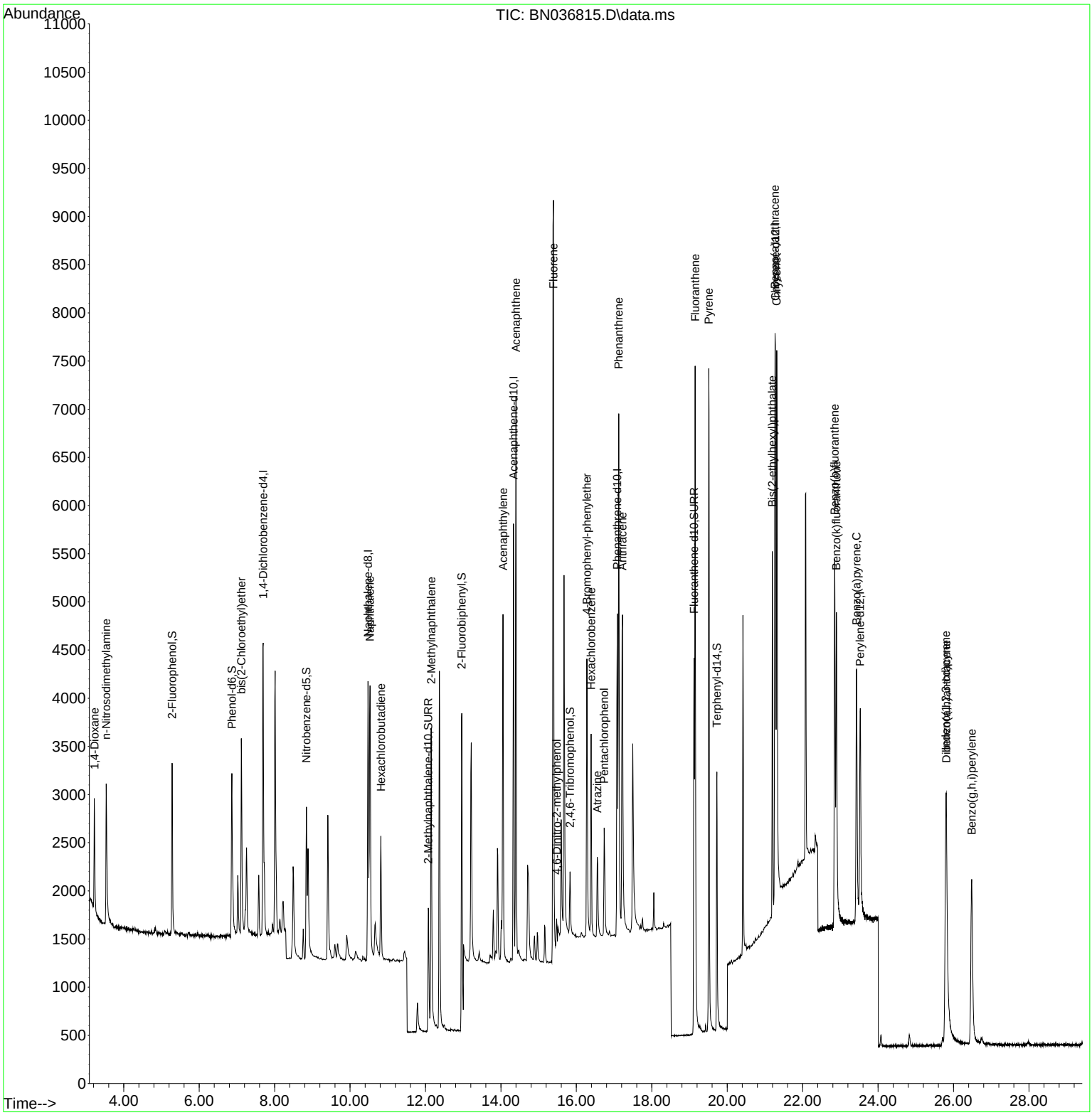
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN033125\
Data File : BN036815.D
Acq On : 31 Mar 2025 15:08
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

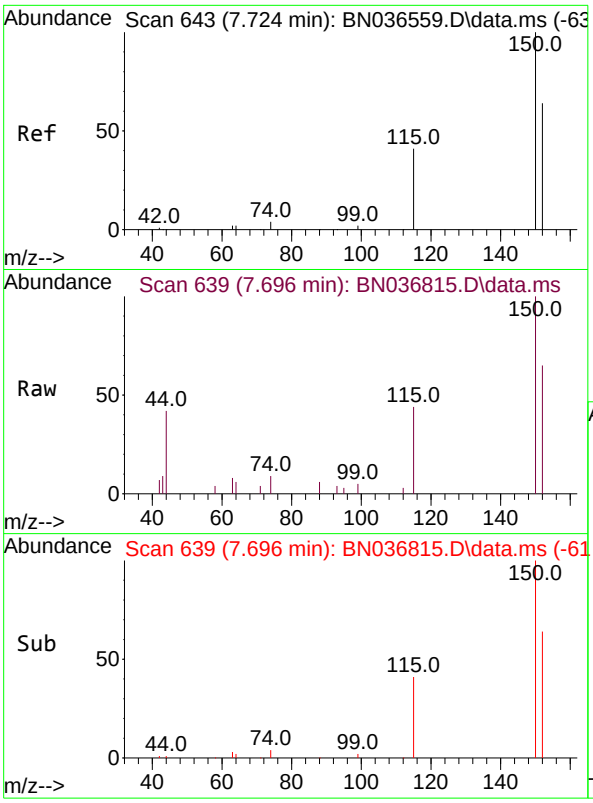
Quant Time: Mar 31 15:30:13 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

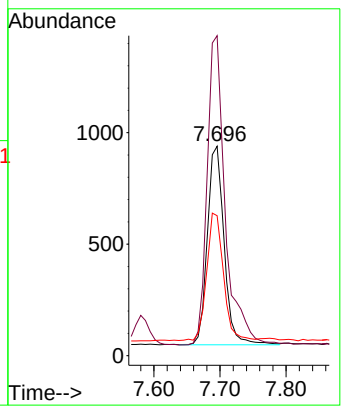




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.696 min Scan# 6
Delta R.T. -0.028 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:152 Resp: 156

Ion	Ratio	Lower	Upper
152	100		
150	152.8	123.7	185.5
115	66.9	54.3	81.5



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
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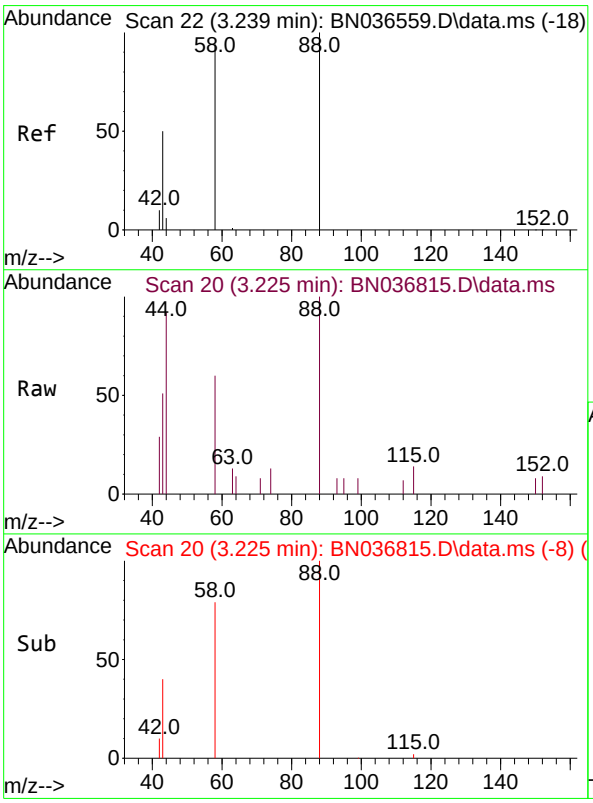
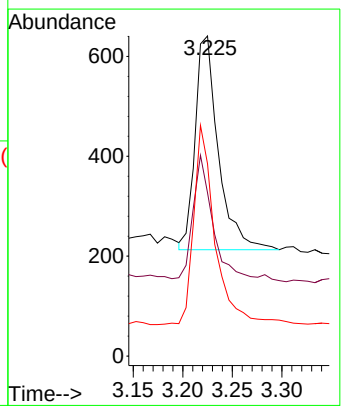
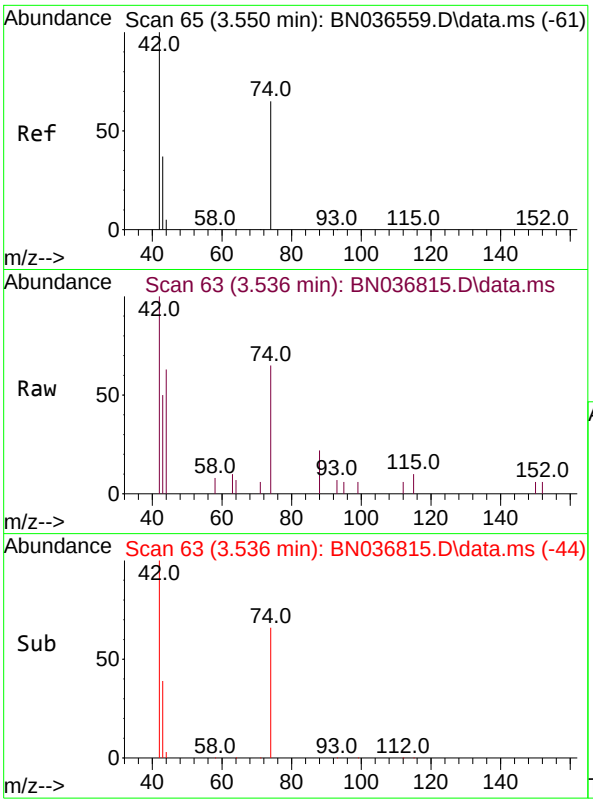


#2
1,4-Dioxane
Concen: 0.403 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion: 88 Resp: 698

Ion	Ratio	Lower	Upper
88	100		
43	51.7	37.8	56.8
58	85.5	67.4	101.2

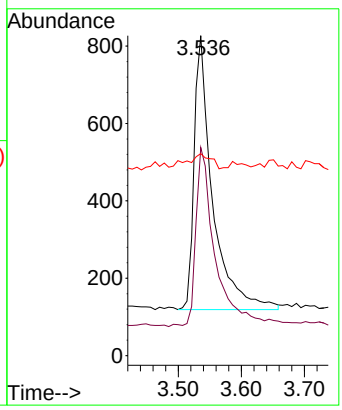




#3
n-Nitrosodimethylamine
Concen: 0.408 ng
RT: 3.536 min Scan# 6
Delta R.T. -0.014 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion: 42 Resp: 143

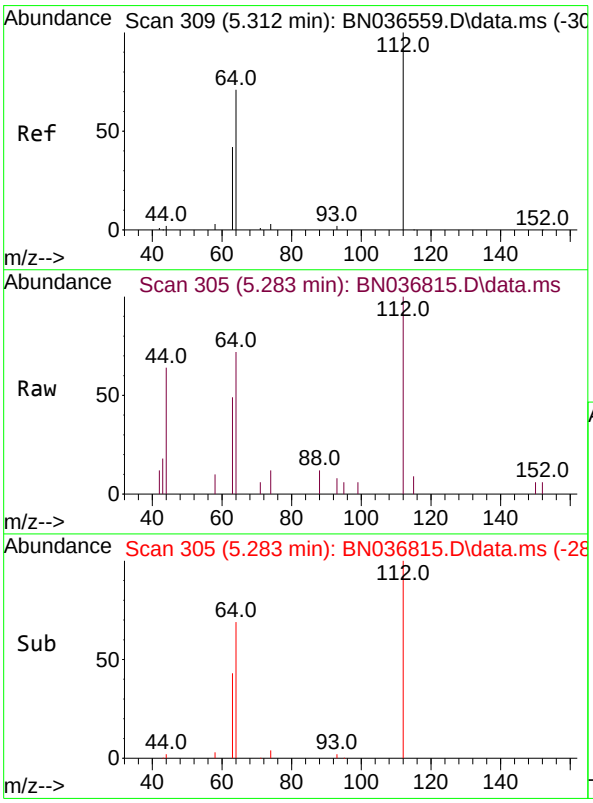
Ion	Ratio	Lower	Upper
42	100		
74	69.3	60.6	90.8
44	6.6	6.3	9.5



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations APPROVED

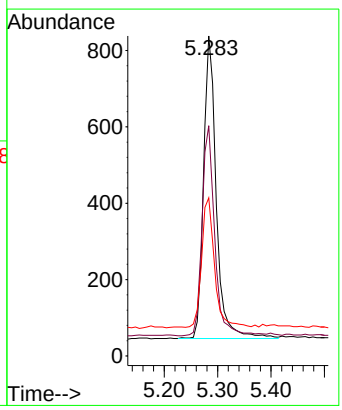
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

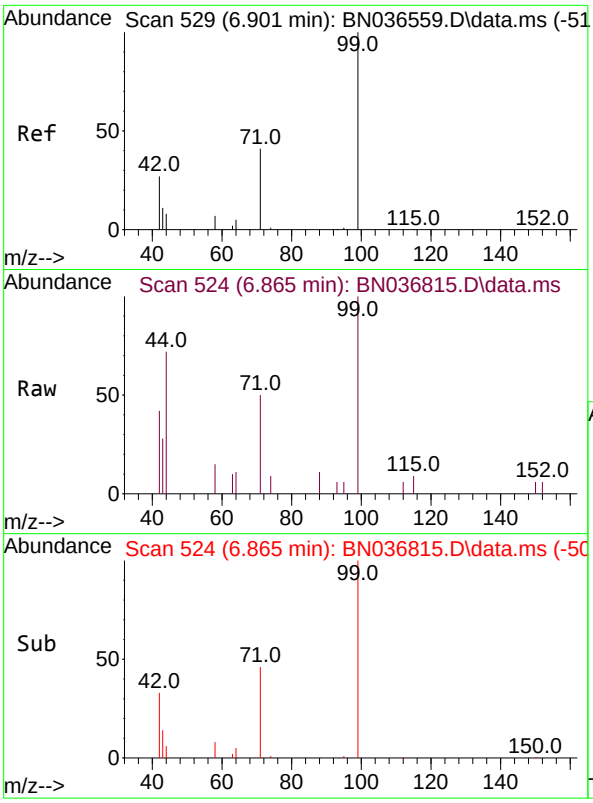


#4
2-Fluorophenol
Concen: 0.360 ng
RT: 5.283 min Scan# 305
Delta R.T. -0.029 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:112 Resp: 1311

Ion	Ratio	Lower	Upper
112	100		
64	69.4	53.1	79.7
63	43.9	31.8	47.8

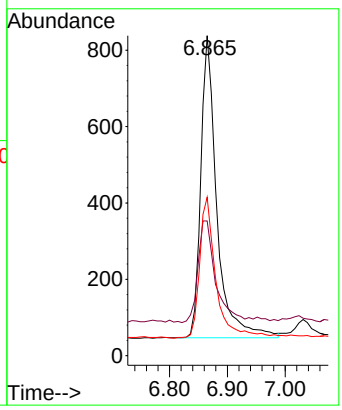




#5
Phenol-d6
Concen: 0.339 ng
RT: 6.865 min Scan# 5
Delta R.T. -0.036 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion: 99 Resp: 152

Ion	Ratio	Lower	Upper
99	100		
42	37.5	26.5	39.7
71	48.4	34.1	51.1



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
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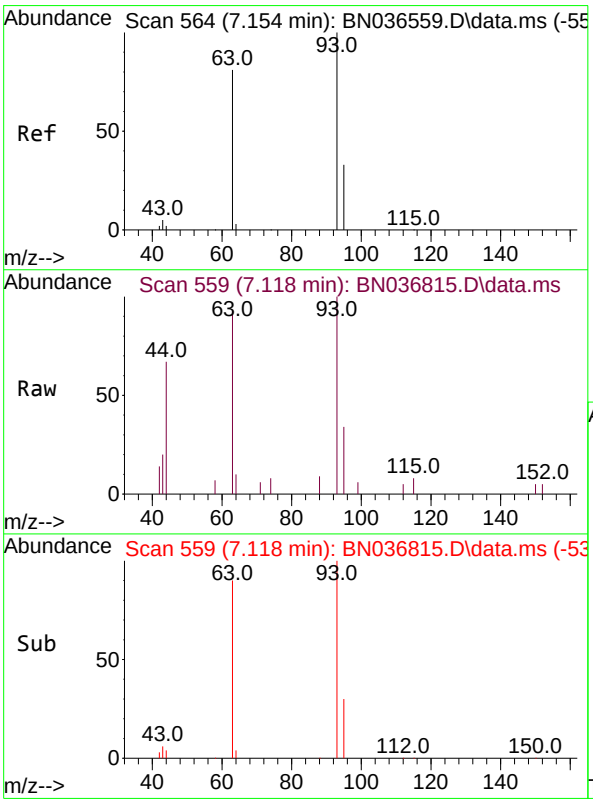
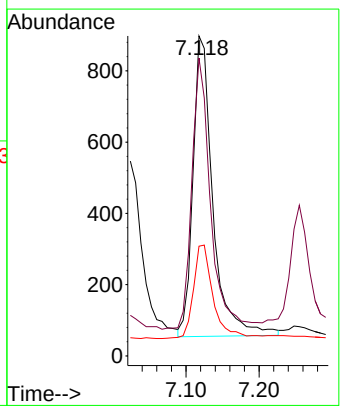
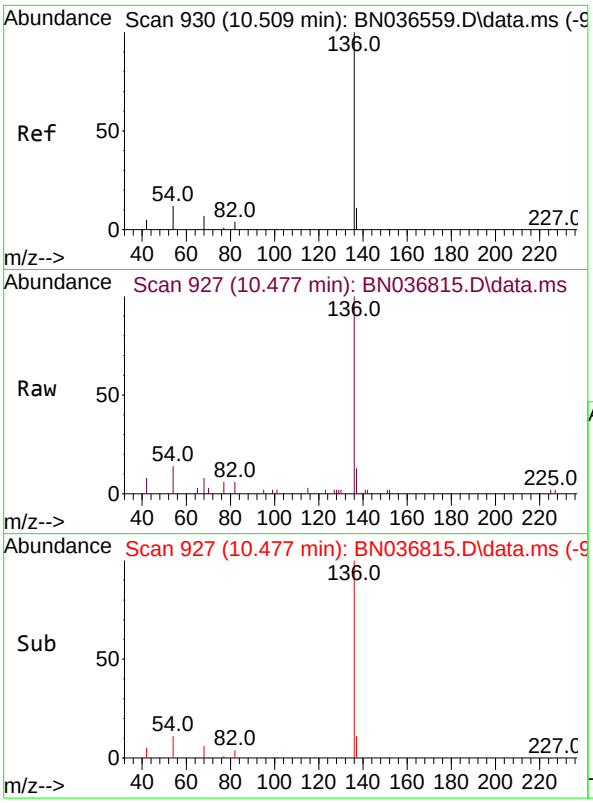


#6
bis(2-Chloroethyl)ether
Concen: 0.343 ng
RT: 7.118 min Scan# 559
Delta R.T. -0.036 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion: 93 Resp: 1597

Ion	Ratio	Lower	Upper
93	100		
63	82.9	67.7	101.5
95	30.6	25.6	38.4

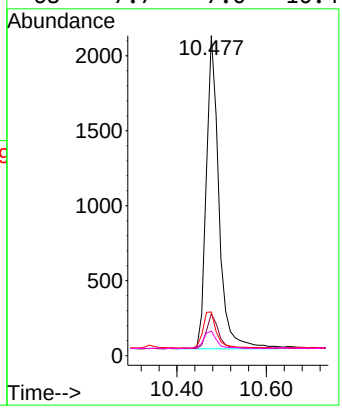




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.477 min Scan# 9
Delta R.T. -0.032 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:136 Resp: 408

Ion	Ratio	Lower	Upper
136	100		
137	13.1	10.3	15.5
54	13.6	11.5	17.3
68	7.7	7.0	10.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
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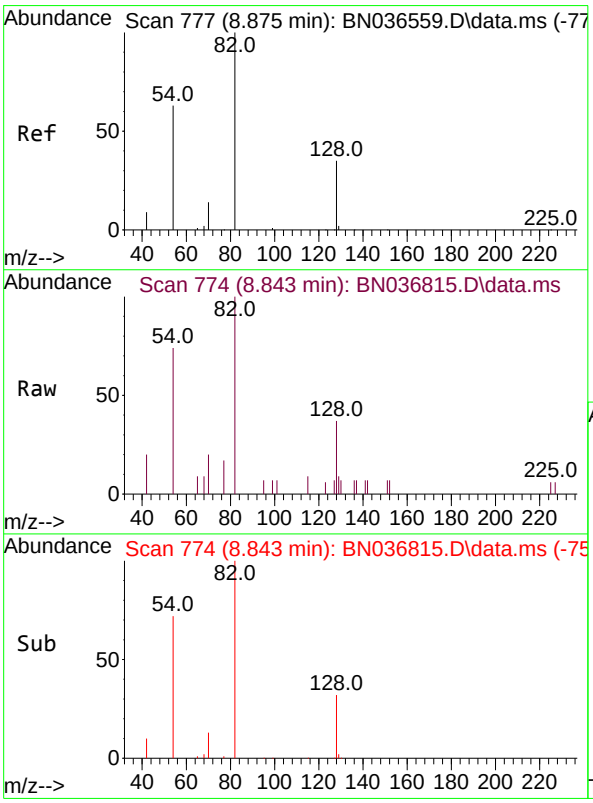
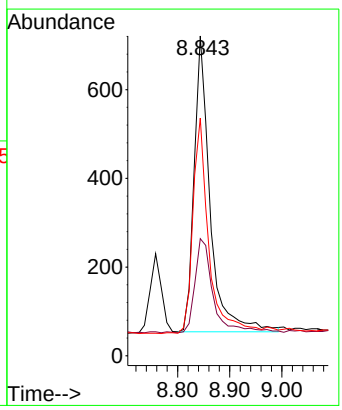
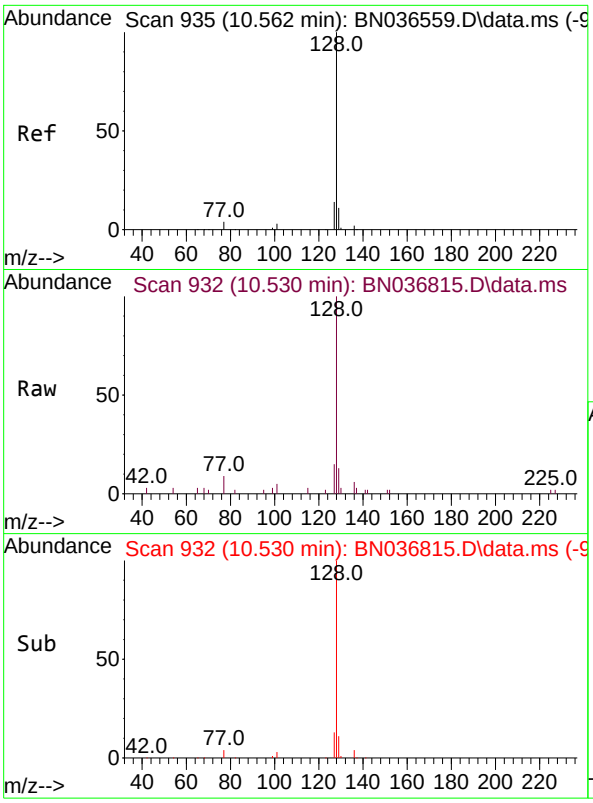


#8
Nitrobenzene-d5
Concen: 0.320 ng
RT: 8.843 min Scan# 774
Delta R.T. -0.032 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion: 82 Resp: 1424

Ion	Ratio	Lower	Upper
82	100		
128	36.6	30.6	45.8
54	74.3	52.2	78.4

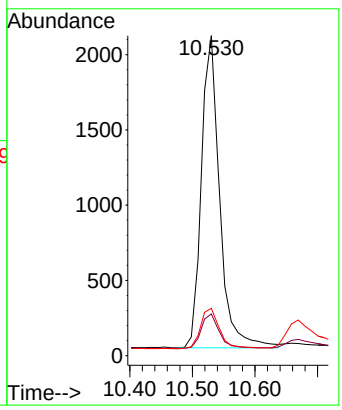




#9
Naphthalene
Concen: 0.350 ng
RT: 10.530 min Scan# 9
Delta R.T. -0.032 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:128 Resp: 421

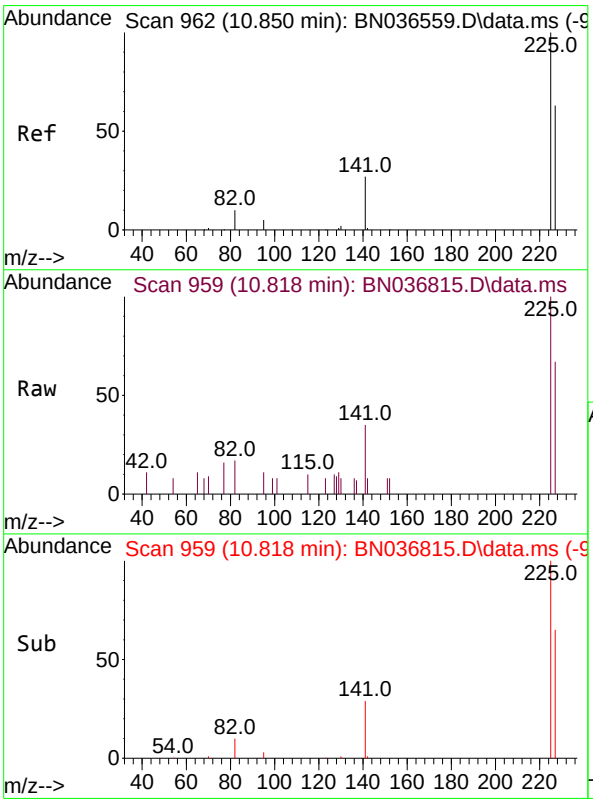
Ion	Ratio	Lower	Upper
128	100		
129	13.0	9.8	14.6
127	14.8	11.8	17.8



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

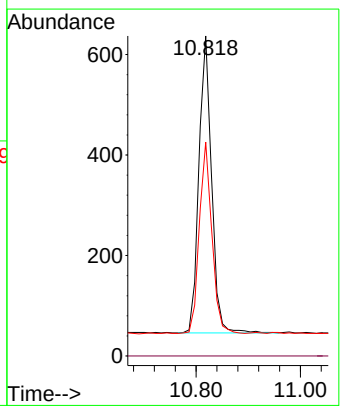
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

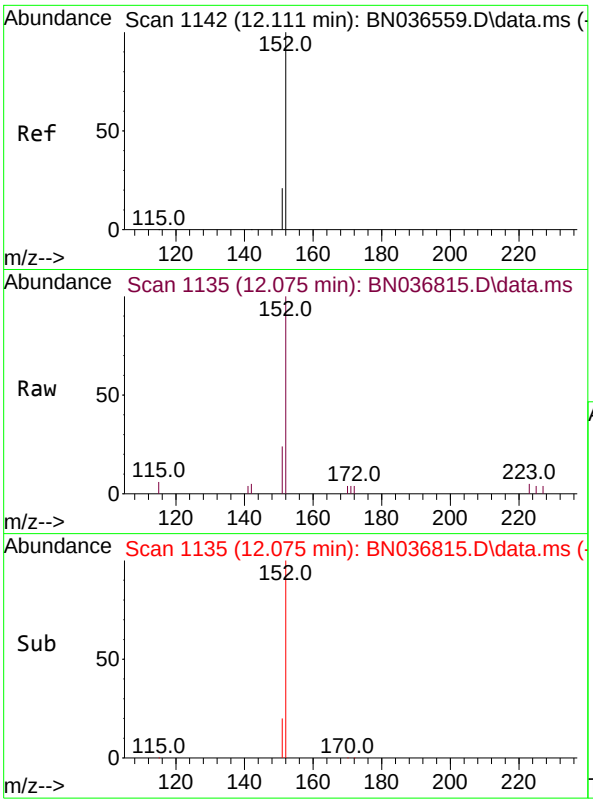


#10
Hexachlorobutadiene
Concen: 0.352 ng
RT: 10.818 min Scan# 959
Delta R.T. -0.032 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:225 Resp: 998

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.0	51.8	77.8





#11
2-Methylnaphthalene-d10
Concen: 0.365 ng
RT: 12.075 min Scan# 11
Delta R.T. -0.035 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:152 Resp: 221

Ion	Ratio	Lower	Upper
152	100		
151	21.2	17.0	25.6

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 03/31/2025
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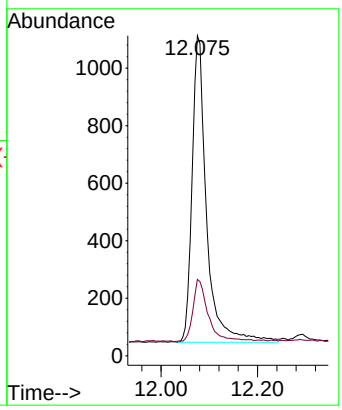
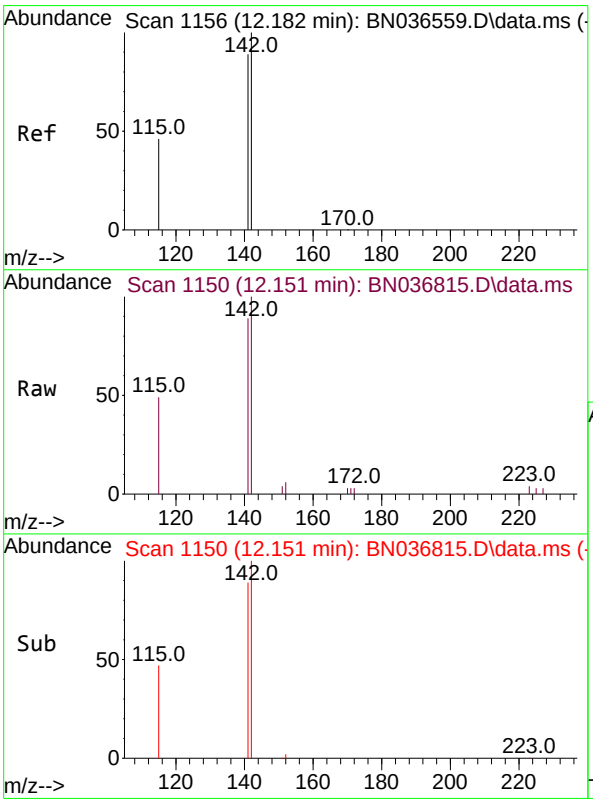
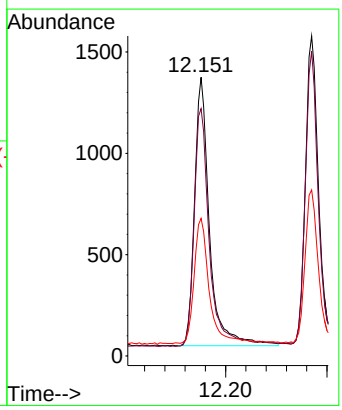


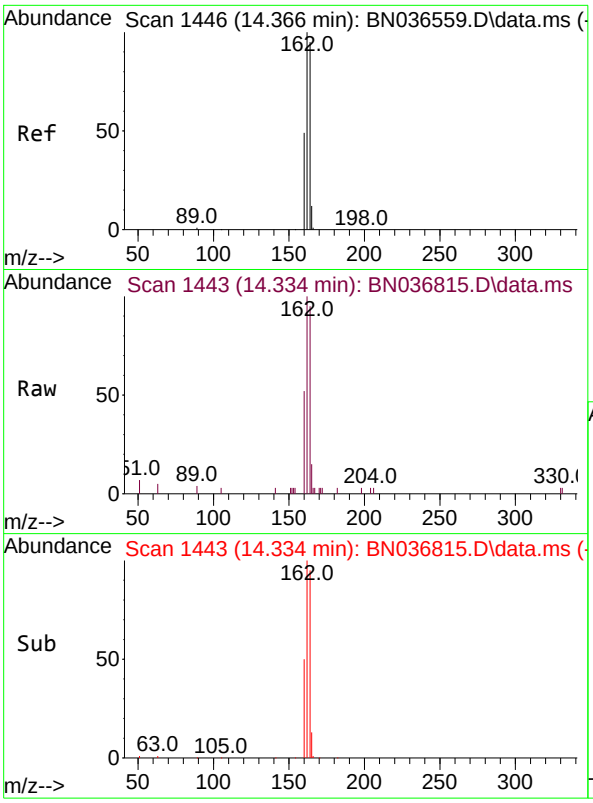


#12
2-Methylnaphthalene
Concen: 0.356 ng
RT: 12.151 min Scan# 1150
Delta R.T. -0.030 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:142 Resp: 2722

Ion	Ratio	Lower	Upper
142	100		
141	88.8	71.7	107.5
115	49.4	38.3	57.5

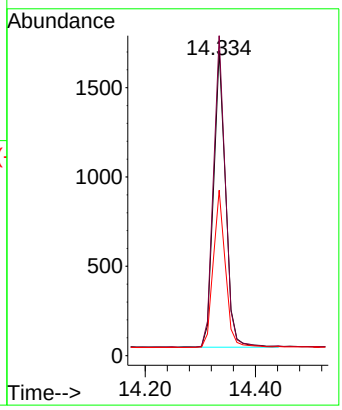




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:164 Resp: 252

Ion	Ratio	Lower	Upper
164	100		
162	104.9	84.2	126.2
160	54.2	42.2	63.2



Instrument :
BNA_N
ClientSampleId :
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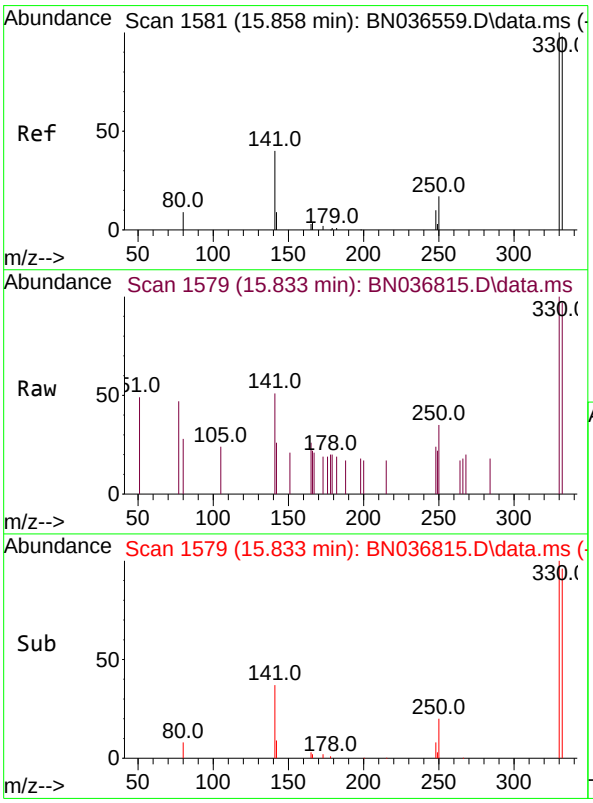
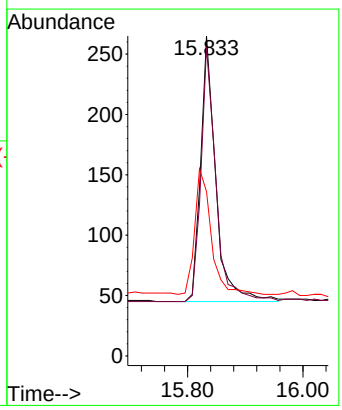
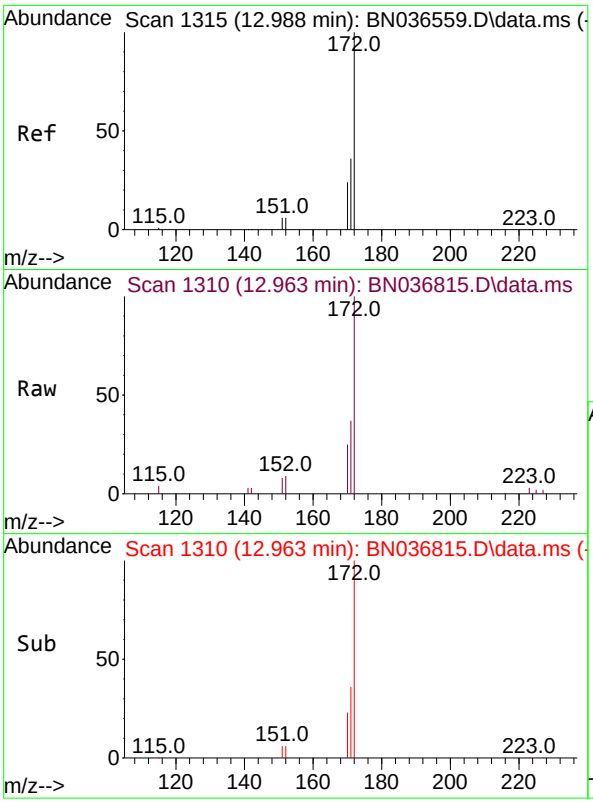


#14
2,4,6-Tribromophenol
Concen: 0.351 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.025 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:330 Resp: 402

Ion	Ratio	Lower	Upper
330	100		
332	94.8	75.2	112.8
141	51.0	43.4	65.2

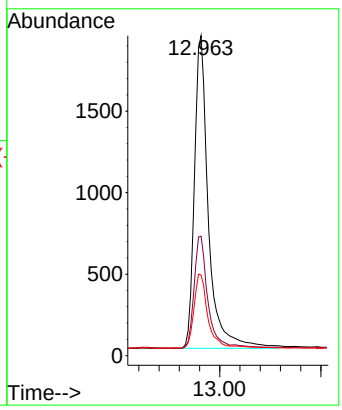




#15
2-Fluorobiphenyl
Concen: 0.336 ng
RT: 12.963 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:172 Resp: 493

Ion	Ratio	Lower	Upper
172	100		
171	37.3	29.5	44.3
170	25.2	20.2	30.4



Instrument :
BNA_N
ClientSampleId :
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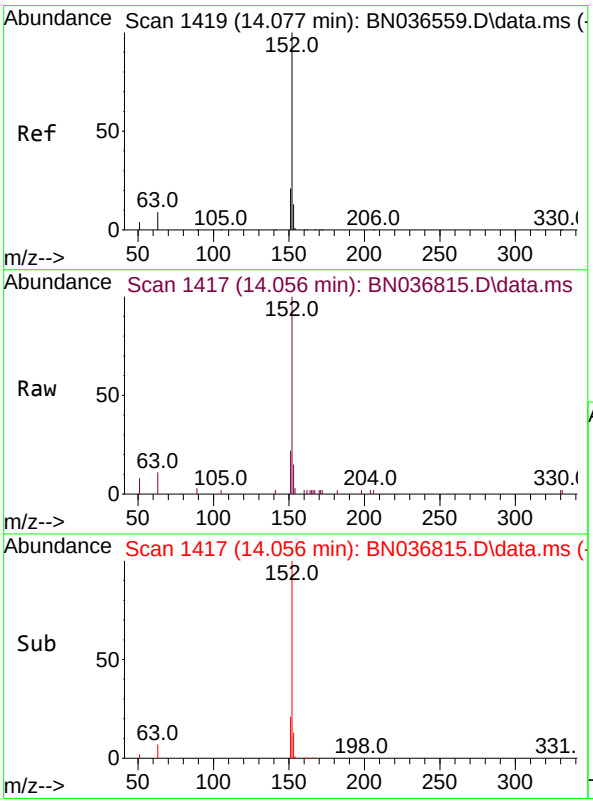
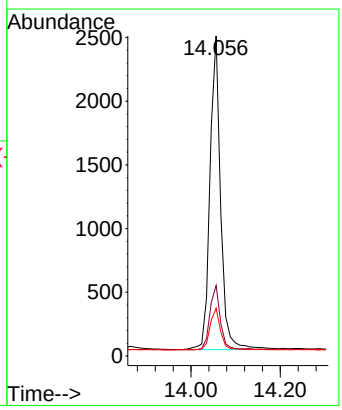
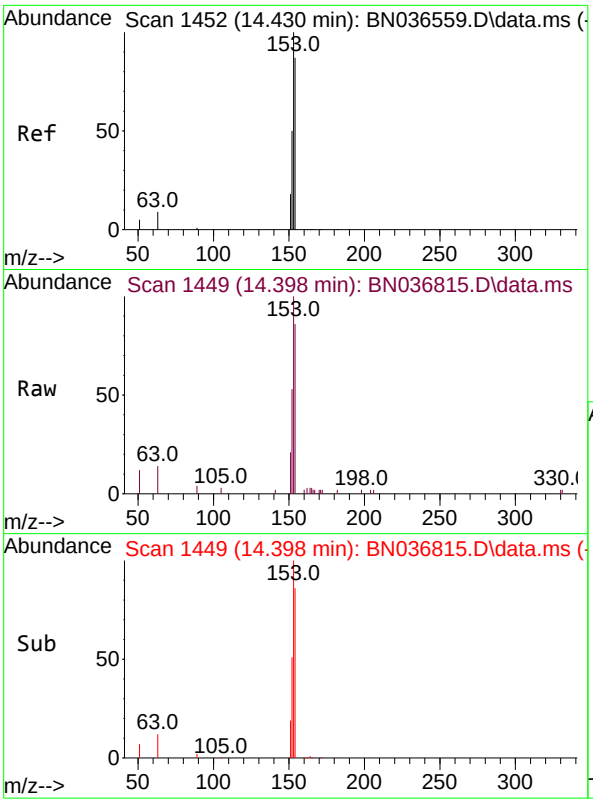


#16
Acenaphthylene
Concen: 0.340 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.021 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:152 Resp: 4054

Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.2	24.4
153	13.5	10.6	15.8

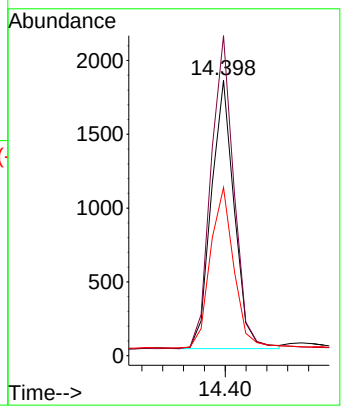




#17
Acenaphthene
Concen: 0.356 ng
RT: 14.398 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:154 Resp: 277

Ion	Ratio	Lower	Upper
154	100		
153	118.7	94.1	141.1
152	62.5	49.8	74.6



Instrument :
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ClientSampleId :
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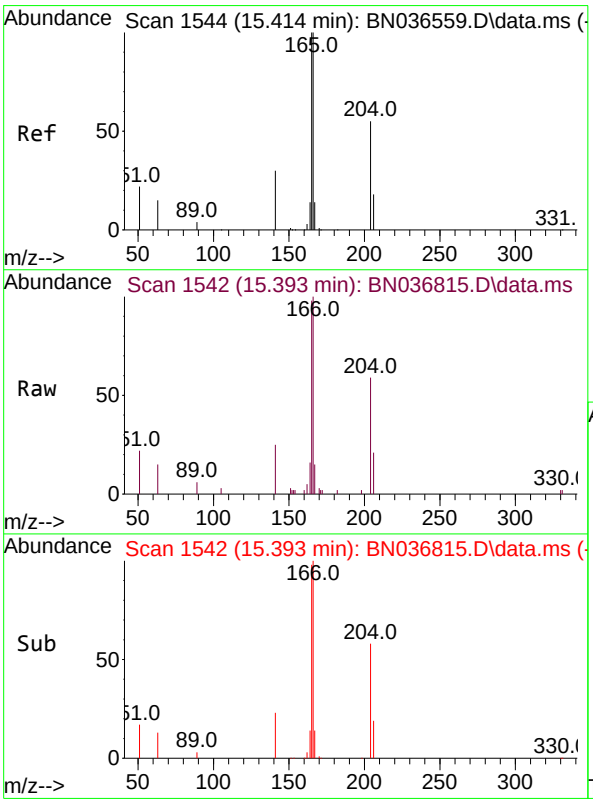
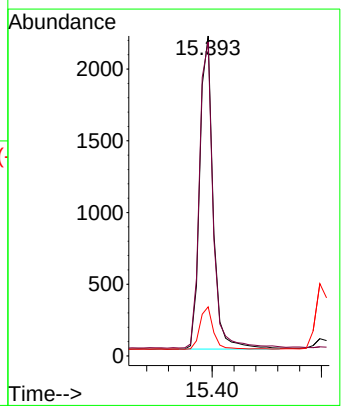
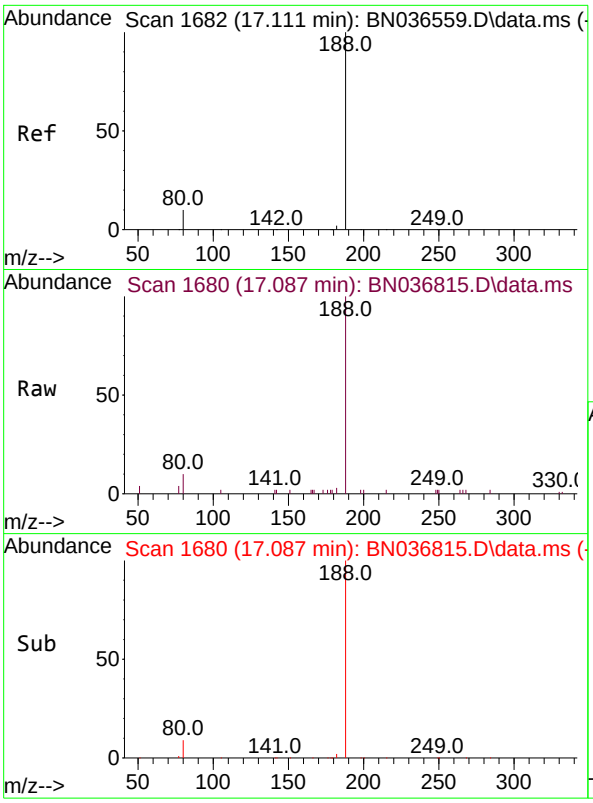


#18
Fluorene
Concen: 0.354 ng
RT: 15.393 min Scan# 1542
Delta R.T. -0.021 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:166 Resp: 3732

Ion	Ratio	Lower	Upper
166	100		
165	100.8	79.8	119.8
167	13.4	10.6	15.8

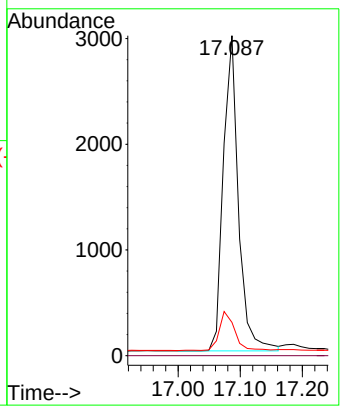




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.087 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:188 Resp: 503

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.4	8.8	13.2



Instrument :
BNA_N
ClientSampleId :
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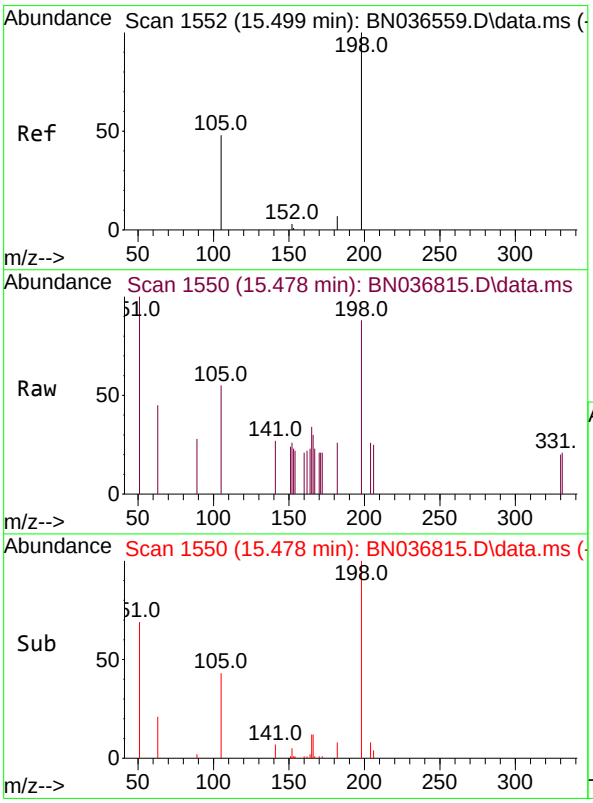
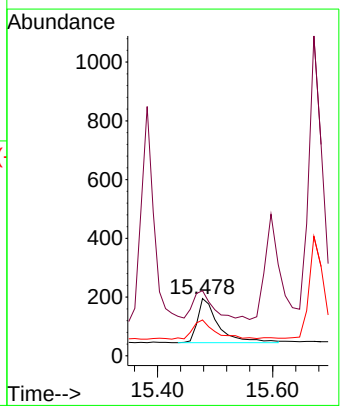
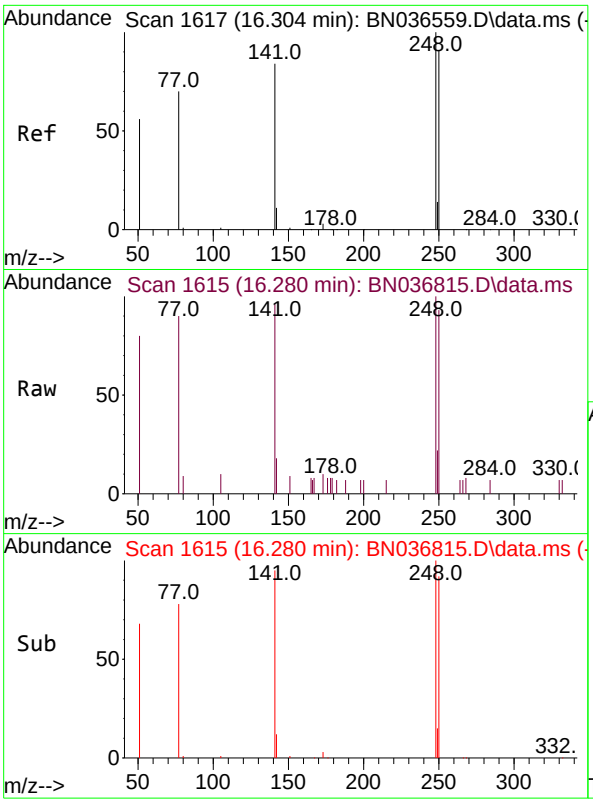


#20
4,6-Dinitro-2-methylphenol
Concen: 0.454 ng
RT: 15.478 min Scan# 1550
Delta R.T. -0.021 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:198 Resp: 396

Ion	Ratio	Lower	Upper
198	100		
51	113.8	107.9	161.9
105	62.6	56.2	84.2





#21
4-Bromophenyl-phenylether
Concen: 0.363 ng
RT: 16.280 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:248 Resp: 114

Ion	Ratio	Lower	Upper
248	100		
250	93.1	73.0	109.6
141	95.8	68.6	103.0

Instrument :
BNA_N
ClientSampleId :
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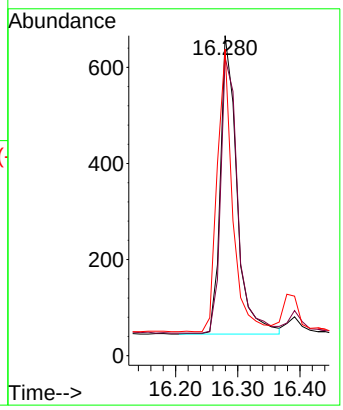
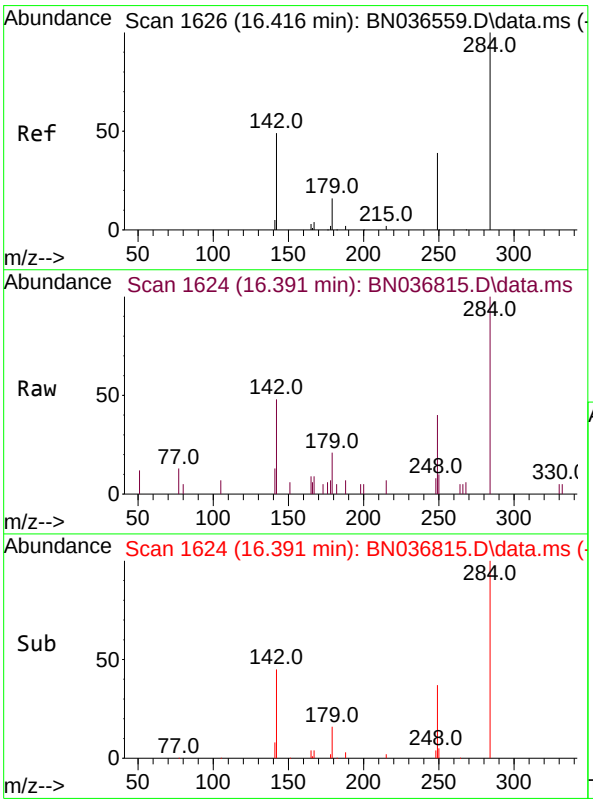
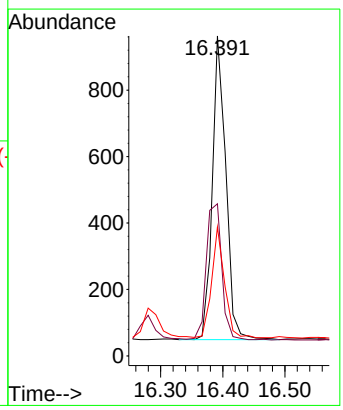


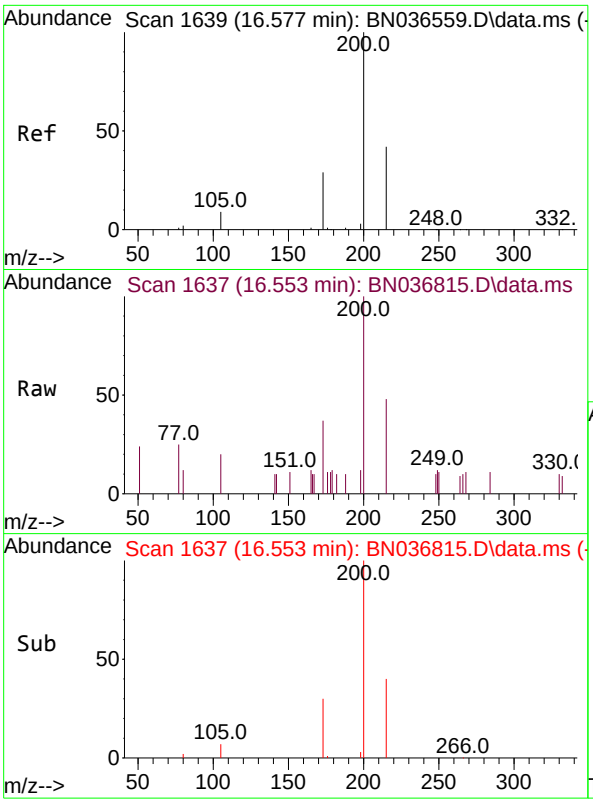


#22
Hexachlorobenzene
Concen: 0.363 ng
RT: 16.391 min Scan# 1624
Delta R.T. -0.025 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:284 Resp: 1380

Ion	Ratio	Lower	Upper
284	100		
142	51.9	37.0	55.4
249	34.7	28.1	42.1

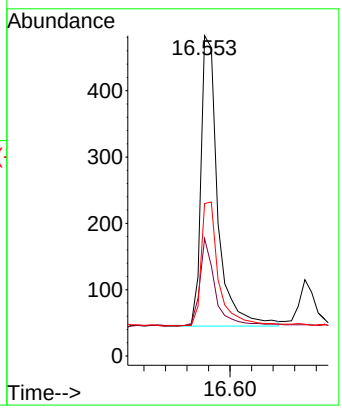




#23
Atrazine
Concen: 0.377 ng
RT: 16.553 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:200 Resp: 954

Ion	Ratio	Lower	Upper
200	100		
173	36.6	27.3	40.9
215	47.6	36.8	55.2



Instrument :
BNA_N
ClientSampleId :
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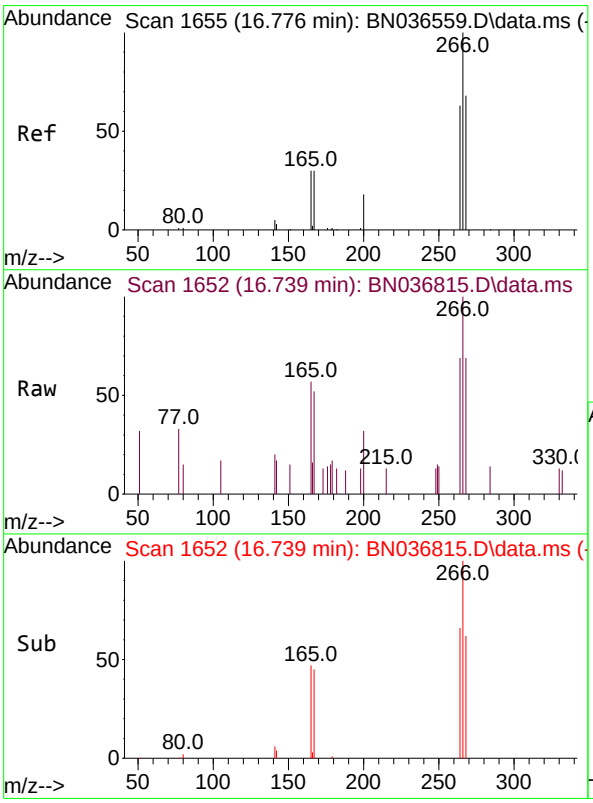
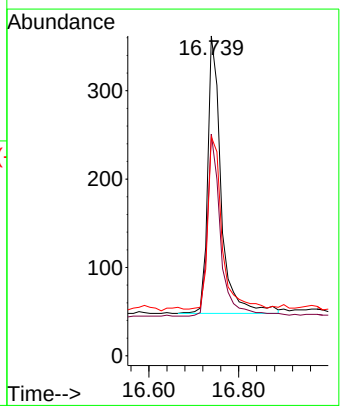
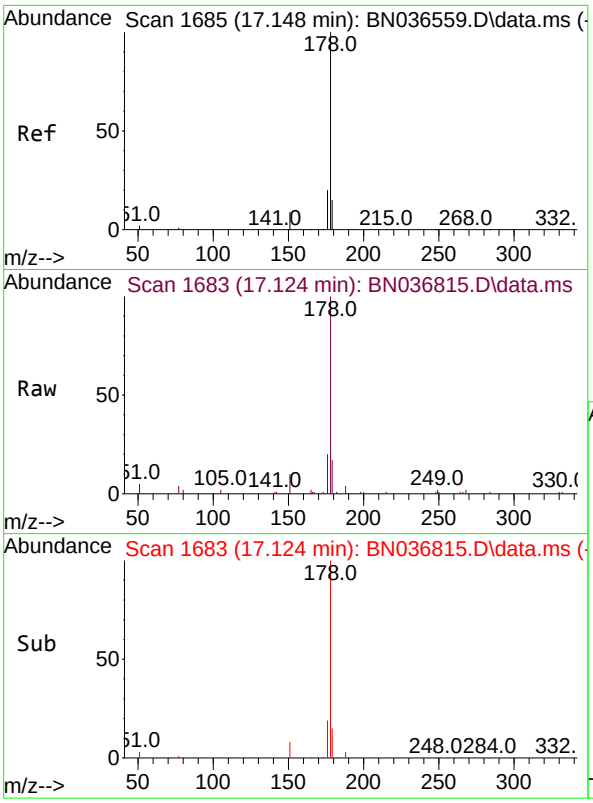


#24
Pentachlorophenol
Concen: 0.375 ng
RT: 16.739 min Scan# 1652
Delta R.T. -0.037 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:266 Resp: 651

Ion	Ratio	Lower	Upper
266	100		
264	64.8	49.6	74.4
268	65.4	50.9	76.3

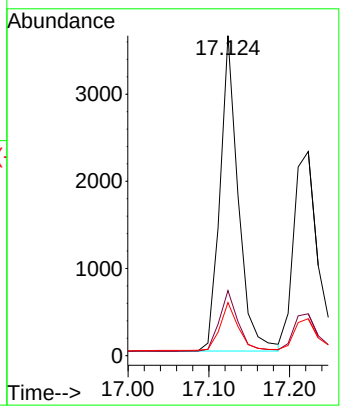




#25
Phenanthrene
Concen: 0.378 ng
RT: 17.124 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:178 Resp: 570

Ion	Ratio	Lower	Upper
178	100		
176	19.9	15.9	23.9
179	15.7	12.2	18.4



Instrument :
BNA_N
ClientSampleId :
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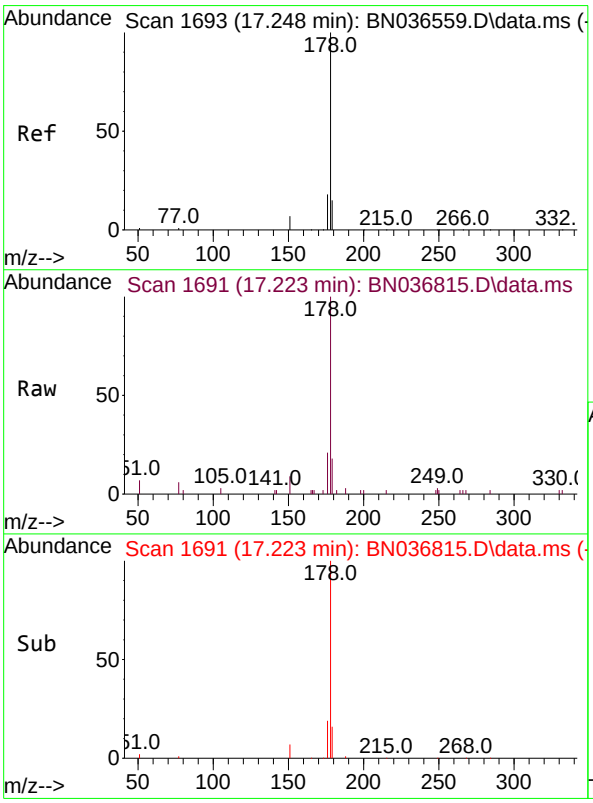
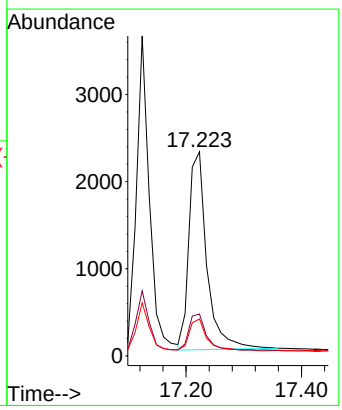
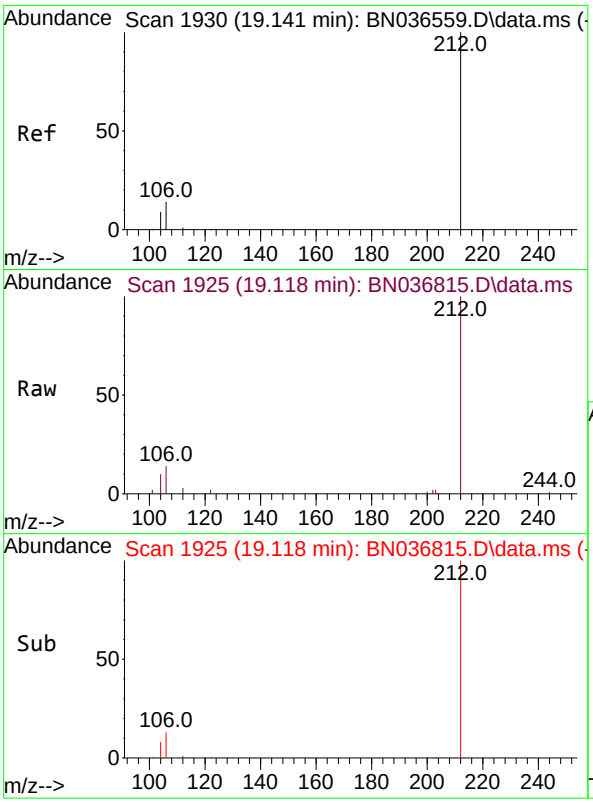


#26
Anthracene
Concen: 0.362 ng
RT: 17.223 min Scan# 1691
Delta R.T. -0.025 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:178 Resp: 4933

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.4	23.2
179	15.6	12.6	18.8

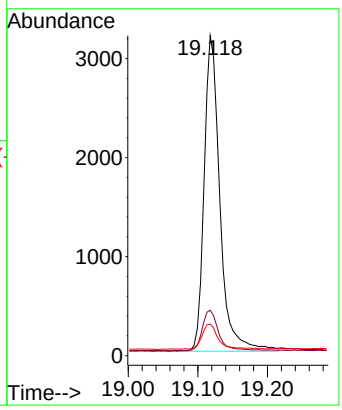




#27
Fluoranthene-d10
Concen: 0.388 ng
RT: 19.118 min Scan# 1
Delta R.T. -0.023 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:212 Resp: 500

Ion	Ratio	Lower	Upper
212	100		
106	13.2	11.8	17.6
104	8.4	7.3	10.9



Instrument :
BNA_N
ClientSampleId :
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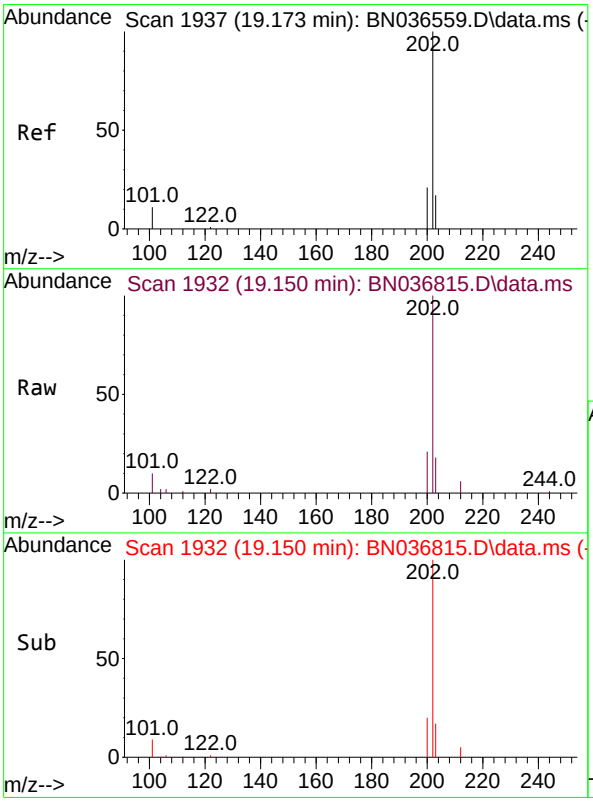
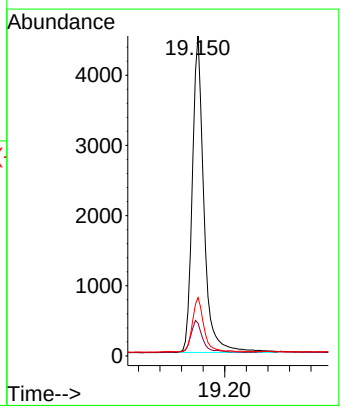
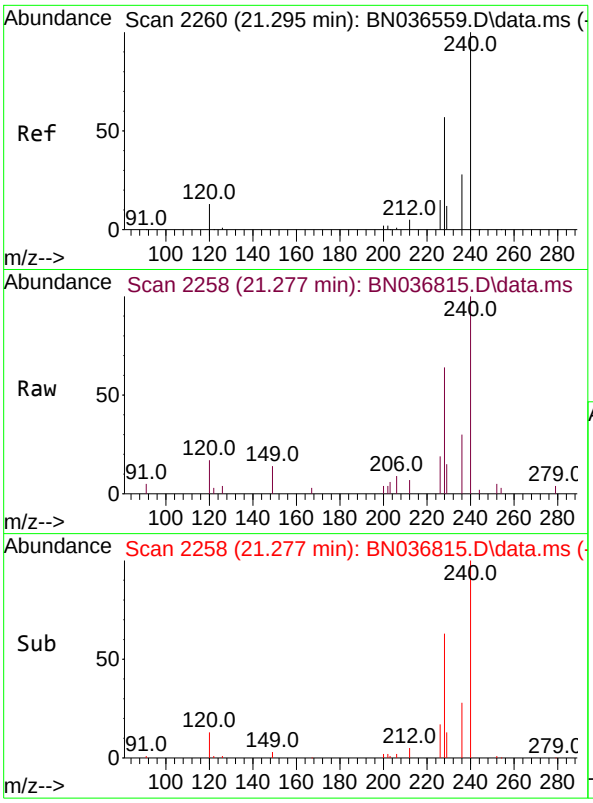


#28
Fluoranthene
Concen: 0.399 ng
RT: 19.150 min Scan# 1932
Delta R.T. -0.023 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:202 Resp: 6761

Ion	Ratio	Lower	Upper
202	100		
101	10.4	9.4	14.0
203	16.5	13.5	20.3

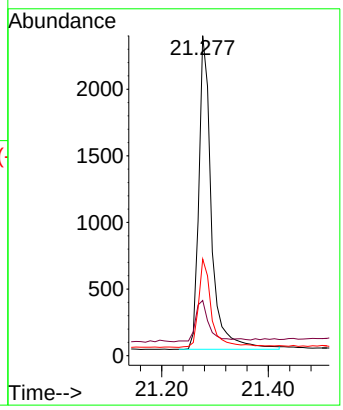




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:240 Resp: 386

Ion	Ratio	Lower	Upper
240	100		
120	17.3	14.6	22.0
236	30.2	24.1	36.1



Instrument :
BNA_N
ClientSampleId :
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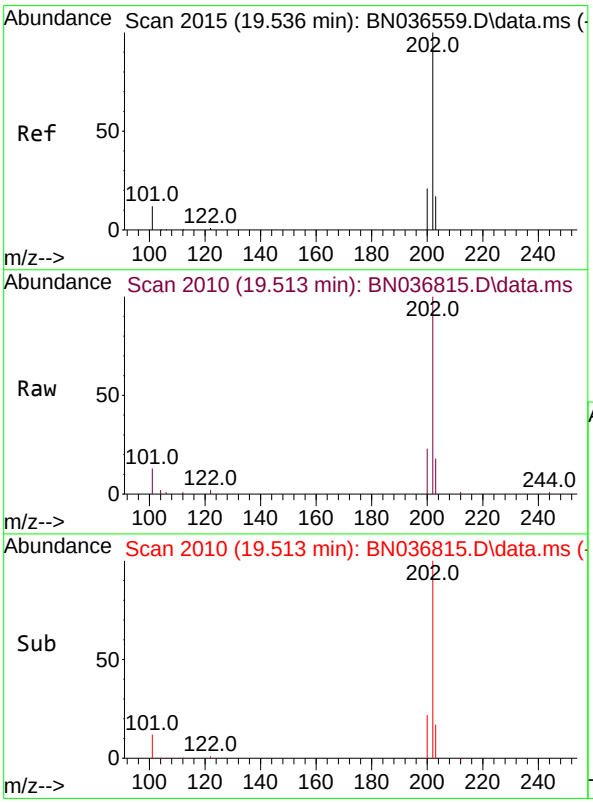
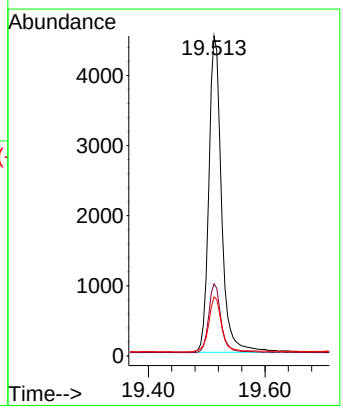
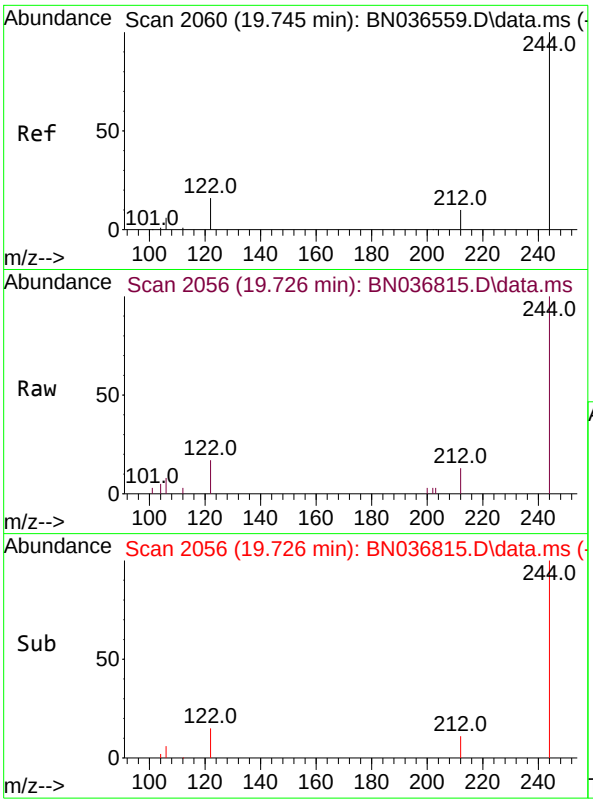


#30
Pyrene
Concen: 0.361 ng
RT: 19.513 min Scan# 2010
Delta R.T. -0.023 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:202 Resp: 6826

Ion	Ratio	Lower	Upper
202	100		
200	21.6	17.1	25.7
203	17.8	14.1	21.1

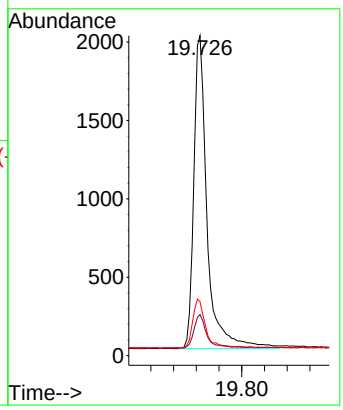




#31
Terphenyl-d14
Concen: 0.352 ng
RT: 19.726 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:244 Resp: 325

Ion	Ratio	Lower	Upper
244	100		
212	12.9	9.6	14.4
122	16.9	13.9	20.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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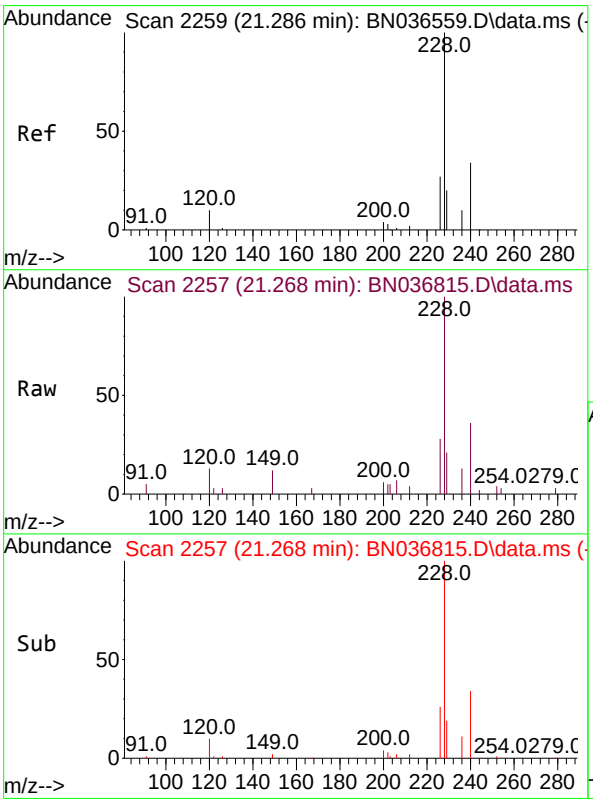
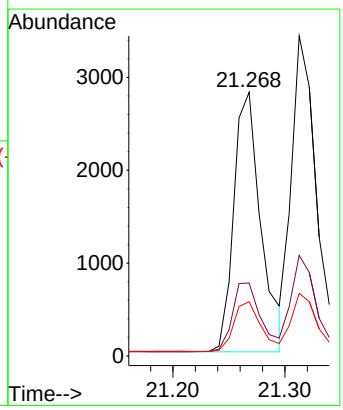
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

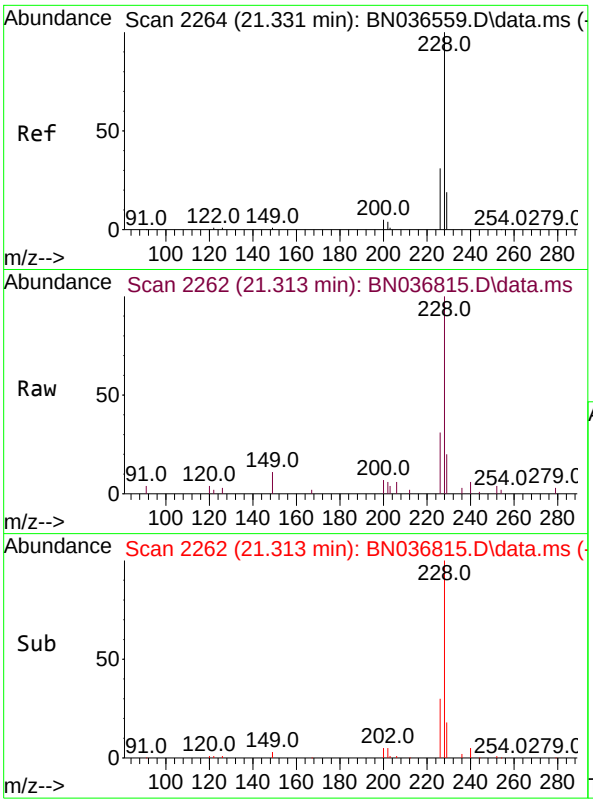


#32
Benzo(a)anthracene
Concen: 0.351 ng
RT: 21.268 min Scan# 2257
Delta R.T. -0.018 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:228 Resp: 4715

Ion	Ratio	Lower	Upper
228	100		
226	27.7	22.5	33.7
229	20.6	16.6	25.0

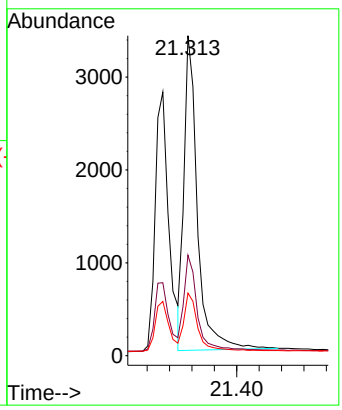




#33
Chrysene
Concen: 0.385 ng
RT: 21.313 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:228 Resp: 565

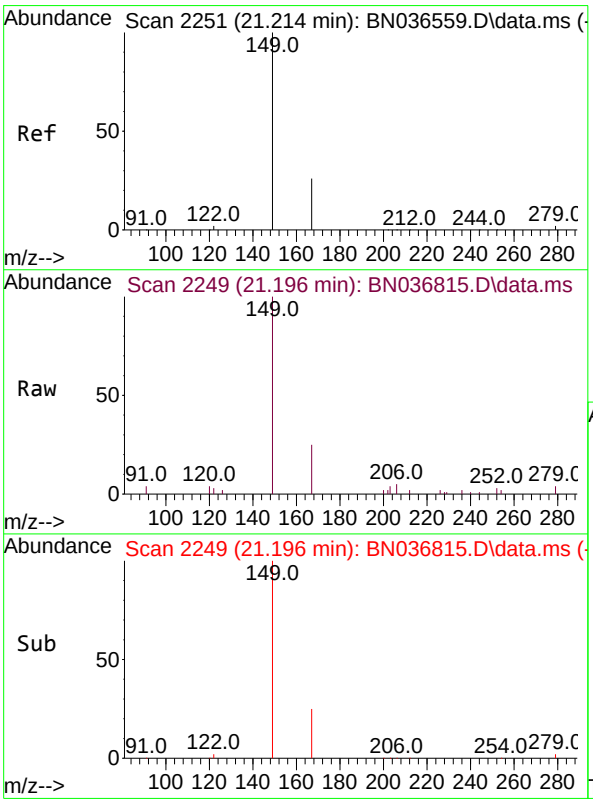
Ion	Ratio	Lower	Upper
228	100		
226	31.4	25.3	37.9
229	19.6	15.8	23.8



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

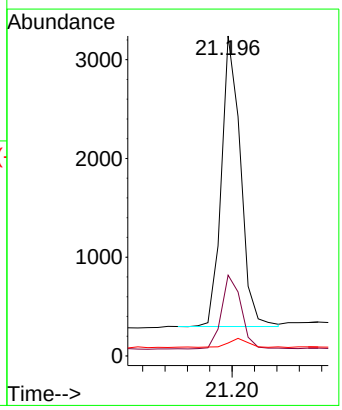
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

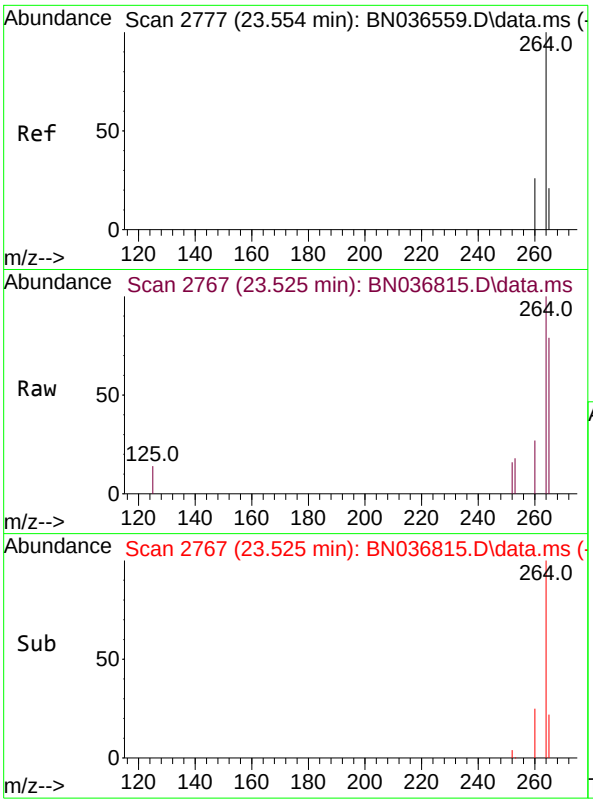


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.364 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:149 Resp: 3477

Ion	Ratio	Lower	Upper
149	100		
167	26.4	20.7	31.1
279	3.1	3.6	5.4#

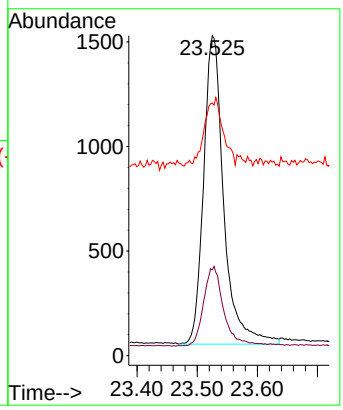




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.525 min Scan# 2
Delta R.T. -0.029 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:264 Resp: 343

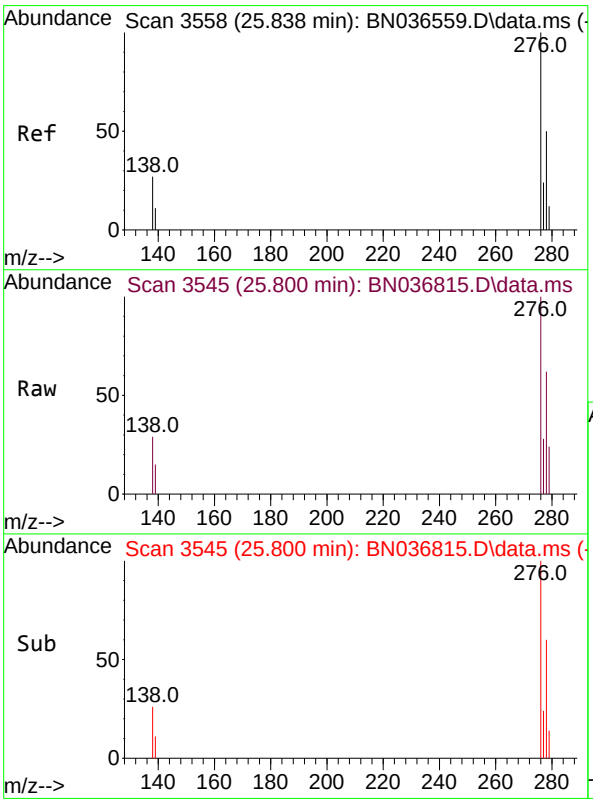
Ion	Ratio	Lower	Upper
264	100		
260	26.9	22.6	33.8
265	79.0	88.1	132.1#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

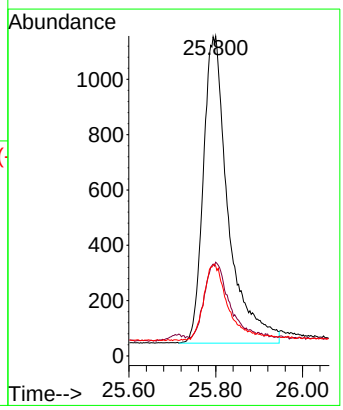
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

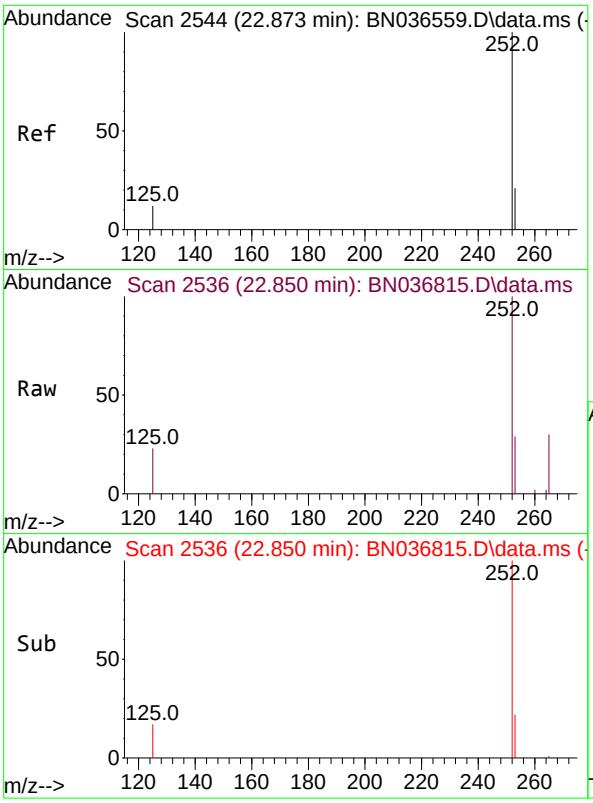


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.357 ng
RT: 25.800 min Scan# 3545
Delta R.T. -0.038 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:276 Resp: 4428

Ion	Ratio	Lower	Upper
276	100		
138	24.1	23.4	35.2
277	23.9	20.0	30.0

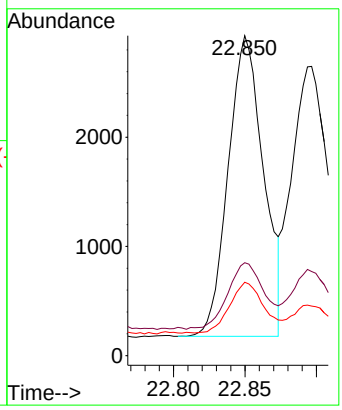




#37
Benzo(b)fluoranthene
Concen: 0.379 ng
RT: 22.850 min Scan# 2
Delta R.T. -0.023 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:252 Resp: 473

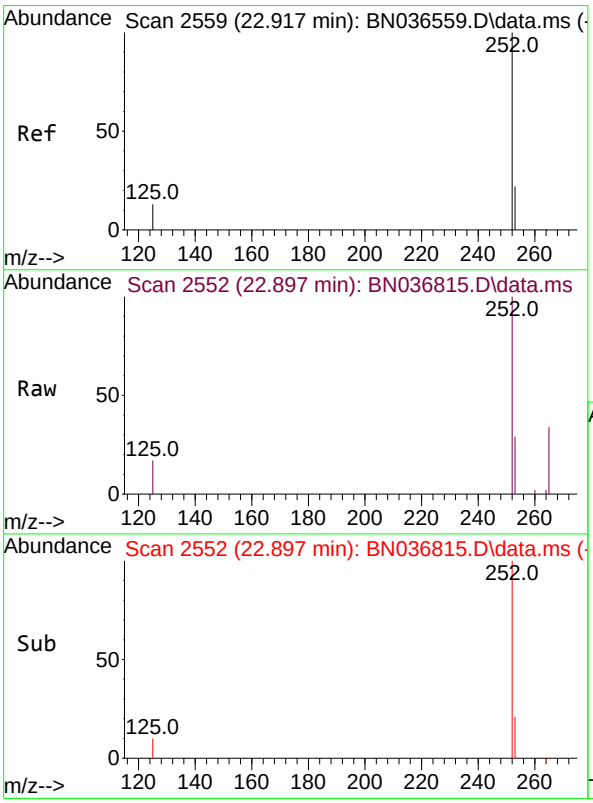
Ion	Ratio	Lower	Upper
252	100		
253	29.0	23.9	35.9
125	22.9	17.4	26.2



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

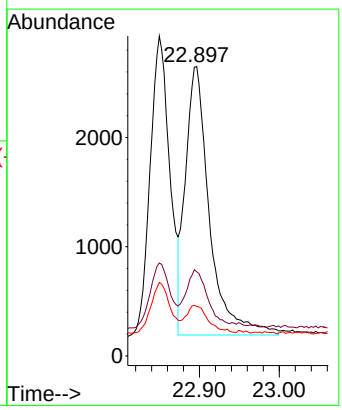
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

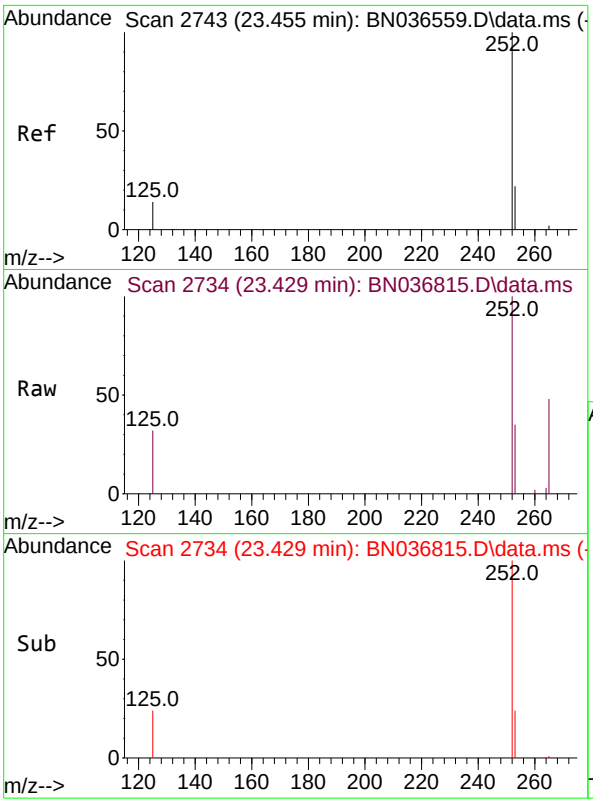


#38
Benzo(k)fluoranthene
Concen: 0.393 ng m
RT: 22.897 min Scan# 2552
Delta R.T. -0.020 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:252 Resp: 5156

Ion	Ratio	Lower	Upper
252	100		
253	29.1	24.6	36.8
125	17.1	17.8	26.8#

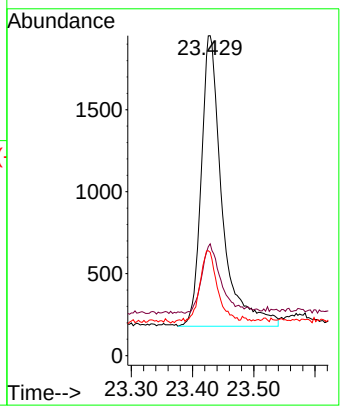




#39
Benzo(a)pyrene
Concen: 0.399 ng
RT: 23.429 min Scan# 2
Delta R.T. -0.026 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:252 Resp: 420

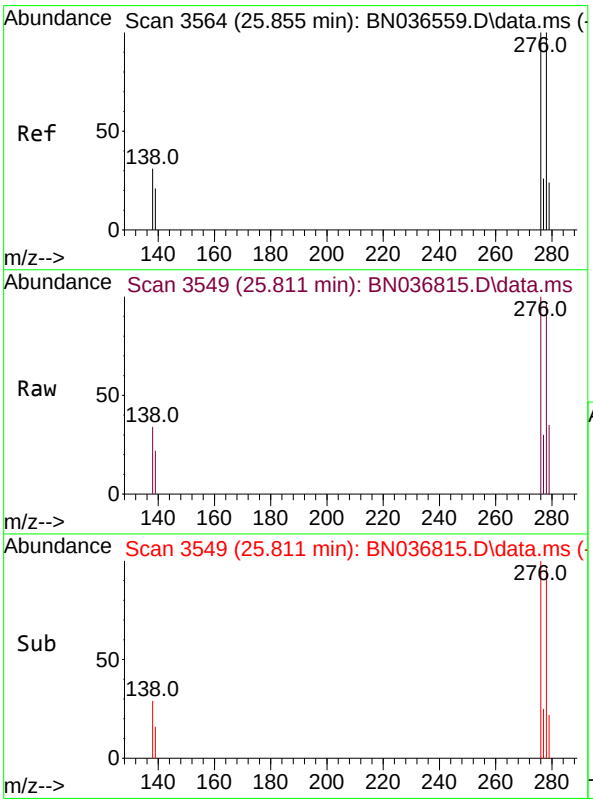
Ion	Ratio	Lower	Upper
252	100		
253	34.9	27.8	41.8
125	32.3	22.7	34.1



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

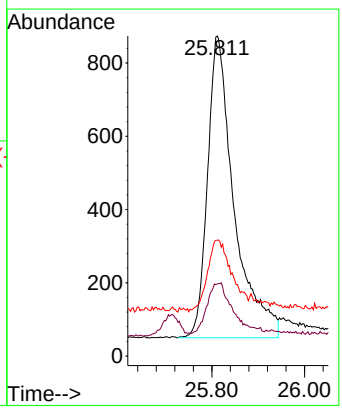
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

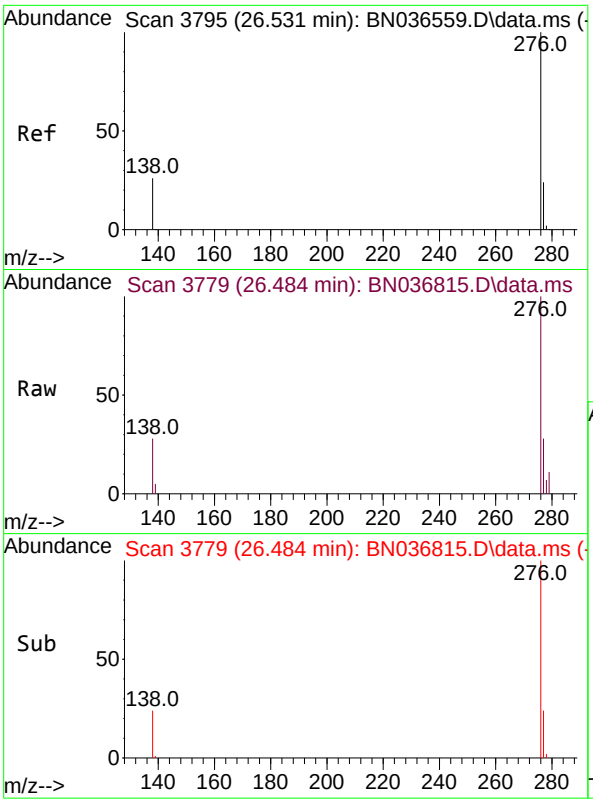


#40
Dibenzo(a,h)anthracene
Concen: 0.340 ng
RT: 25.811 min Scan# 3549
Delta R.T. -0.044 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:278 Resp: 3277

Ion	Ratio	Lower	Upper
278	100		
139	22.5	20.8	31.2
279	36.2	28.8	43.2

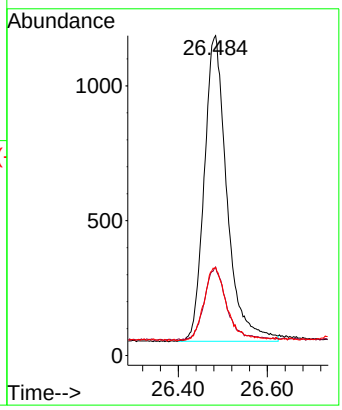




#41
Benzo(g,h,i)perylene
Concen: 0.363 ng
RT: 26.484 min Scan# 3
Delta R.T. -0.047 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:276 Resp: 400

Ion	Ratio	Lower	Upper
276	100		
277	27.7	22.2	33.4
138	27.6	24.1	36.1



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN033125\
Data File : BN036815.D
Acq On : 31 Mar 2025 15:08
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Mar 31 15:30:13 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 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	71	-0.03
2		1,4-Dioxane	0.444	0.447	-0.7	64	-0.01
3		n-Nitrosodimethylamine	0.898	0.915	-1.9	69	-0.01
4	S	2-Fluorophenol	0.932	0.839	10.0	60	-0.03
5	S	Phenol-d6	1.152	0.976	15.3	61	-0.04
6		bis(2-Chloroethyl)ether	1.190	1.022	14.1	61	-0.04
7	I	Naphthalene-d8	1.000	1.000	0.0	80	-0.03
8	S	Nitrobenzene-d5	0.435	0.348	20.0	67	-0.03
9		Naphthalene	1.177	1.030	12.5	69	-0.03
10		Hexachlorobutadiene	0.277	0.244	11.9	67	-0.03
11	SURR	2-Methylnaphthalene-d10	0.595	0.543	8.7	72	-0.04
12		2-Methylnaphthalene	0.749	0.666	11.1	70	-0.03
13	I	Acenaphthene-d10	1.000	1.000	0.0	83	-0.03
14	S	2,4,6-Tribromophenol	0.182	0.159	12.6	71	-0.02
15	S	2-Fluorobiphenyl	2.327	1.957	15.9	68	-0.03
16		Acenaphthylene	1.888	1.606	14.9	69	-0.02
17		Acenaphthene	1.236	1.100	11.0	72	-0.03
18		Fluorene	1.672	1.479	11.5	70	-0.02
19	I	Phenanthrene-d10	1.000	1.000	0.0	84	-0.02
20		4,6-Dinitro-2-methylphenol	0.086	0.079	8.1	86	-0.02
21		4-Bromophenyl-phenylether	0.251	0.227	9.6	70	-0.02
22		Hexachlorobenzene	0.303	0.274	9.6	68	-0.02
23		Atrazine	0.201	0.190	5.5	75	-0.02
24		Pentachlorophenol	0.138	0.129	6.5	79	-0.04
25		Phenanthrene	1.200	1.133	5.6	73	-0.02
26		Anthracene	1.083	0.980	9.5	72	-0.02
27	SURR	Fluoranthene-d10	1.025	0.994	3.0	75	-0.02
28		Fluoranthene	1.348	1.344	0.3	78	-0.02
29	I	Chrysene-d12	1.000	1.000	0.0	94	-0.02
30		Pyrene	1.956	1.767	9.7	78	-0.02
31	S	Terphenyl-d14	0.958	0.842	12.1	77	-0.02
32		Benzo(a)anthracene	1.391	1.221	12.2	80	-0.02
33		Chrysene	1.520	1.463	3.7	85	-0.02
34		Bis(2-ethylhexyl)phthalate	0.990	0.900	9.1	81	-0.02
35	I	Perylene-d12	1.000	1.000	0.0	97	-0.03
36		Indeno(1,2,3-cd)pyrene	1.444	1.289	10.7	81	-0.04
37		Benzo(b)fluoranthene	1.456	1.378	5.4	86	-0.02
38		Benzo(k)fluoranthene	1.527	1.501	1.7	90	-0.02
39	C	Benzo(a)pyrene	1.226	1.223	0.2	91	-0.03
40		Dibenzo(a,h)anthracene	1.124	0.954	15.1	80	-0.04
41		Benzo(g,h,i)perylene	1.286	1.166	9.3	82	-0.05

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN033125\
Data File : BN036815.D
Acq On : 31 Mar 2025 15:08
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Mar 31 15:30:13 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 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	71	-0.03
2		1,4-Dioxane	0.400	0.403	-0.8	64	-0.01
3		n-Nitrosodimethylamine	0.400	0.408	-2.0	69	-0.01
4	S	2-Fluorophenol	0.400	0.360	10.0	60	-0.03
5	S	Phenol-d6	0.400	0.339	15.3	61	-0.04
6		bis(2-Chloroethyl)ether	0.400	0.343	14.2	61	-0.04
7	I	Naphthalene-d8	0.400	0.400	0.0	80	-0.03
8	S	Nitrobenzene-d5	0.400	0.320	20.0	67	-0.03
9		Naphthalene	0.400	0.350	12.5	69	-0.03
10		Hexachlorobutadiene	0.400	0.352	12.0	67	-0.03
11	SURR	2-Methylnaphthalene-d10	0.400	0.365	8.8	72	-0.04
12		2-Methylnaphthalene	0.400	0.356	11.0	70	-0.03
13	I	Acenaphthene-d10	0.400	0.400	0.0	83	-0.03
14	S	2,4,6-Tribromophenol	0.400	0.351	12.3	71	-0.02
15	S	2-Fluorobiphenyl	0.400	0.336	16.0	68	-0.03
16		Acenaphthylene	0.400	0.340	15.0	69	-0.02
17		Acenaphthene	0.400	0.356	11.0	72	-0.03
18		Fluorene	0.400	0.354	11.5	70	-0.02
19	I	Phenanthrene-d10	0.400	0.400	0.0	84	-0.02
20		4,6-Dinitro-2-methylphenol	0.400	0.454	-13.5	86	-0.02
21		4-Bromophenyl-phenylether	0.400	0.363	9.3	70	-0.02
22		Hexachlorobenzene	0.400	0.363	9.3	68	-0.02
23		Atrazine	0.400	0.377	5.8	75	-0.02
24		Pentachlorophenol	0.400	0.375	6.3	79	-0.04
25		Phenanthrene	0.400	0.378	5.5	73	-0.02
26		Anthracene	0.400	0.362	9.5	72	-0.02
27	SURR	Fluoranthene-d10	0.400	0.388	3.0	75	-0.02
28		Fluoranthene	0.400	0.399	0.3	78	-0.02
29	I	Chrysene-d12	0.400	0.400	0.0	94	-0.02
30		Pyrene	0.400	0.361	9.8	78	-0.02
31	S	Terphenyl-d14	0.400	0.352	12.0	77	-0.02
32		Benzo(a)anthracene	0.400	0.351	12.3	80	-0.02
33		Chrysene	0.400	0.385	3.8	85	-0.02
34		Bis(2-ethylhexyl)phthalate	0.400	0.364	9.0	81	-0.02
35	I	Perylene-d12	0.400	0.400	0.0	97	-0.03
36		Indeno(1,2,3-cd)pyrene	0.400	0.357	10.8	81	-0.04
37		Benzo(b)fluoranthene	0.400	0.379	5.3	86	-0.02
38		Benzo(k)fluoranthene	0.400	0.393	1.8	90	-0.02
39	C	Benzo(a)pyrene	0.400	0.399	0.3	91	-0.03
40		Dibenzo(a,h)anthracene	0.400	0.340	15.0	80	-0.04
41		Benzo(g,h,i)perylene	0.400	0.363	9.3	82	-0.05

(#) = Out of Range SPCC's out = 0 CCC's out = 0

QC SAMPLE DATA

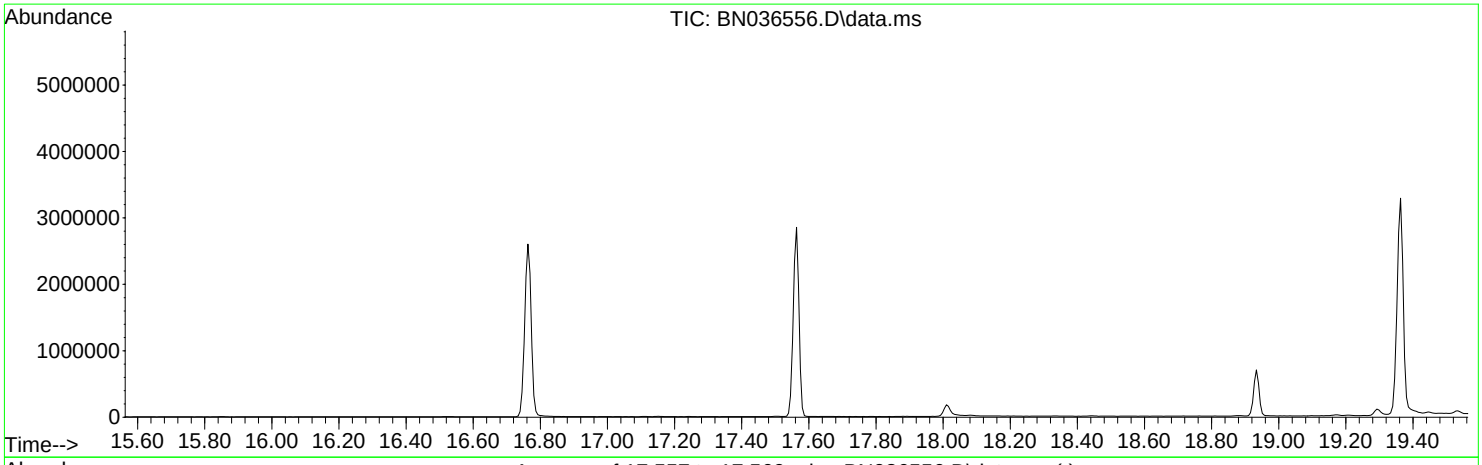
Sample Results: **BN036556.D**

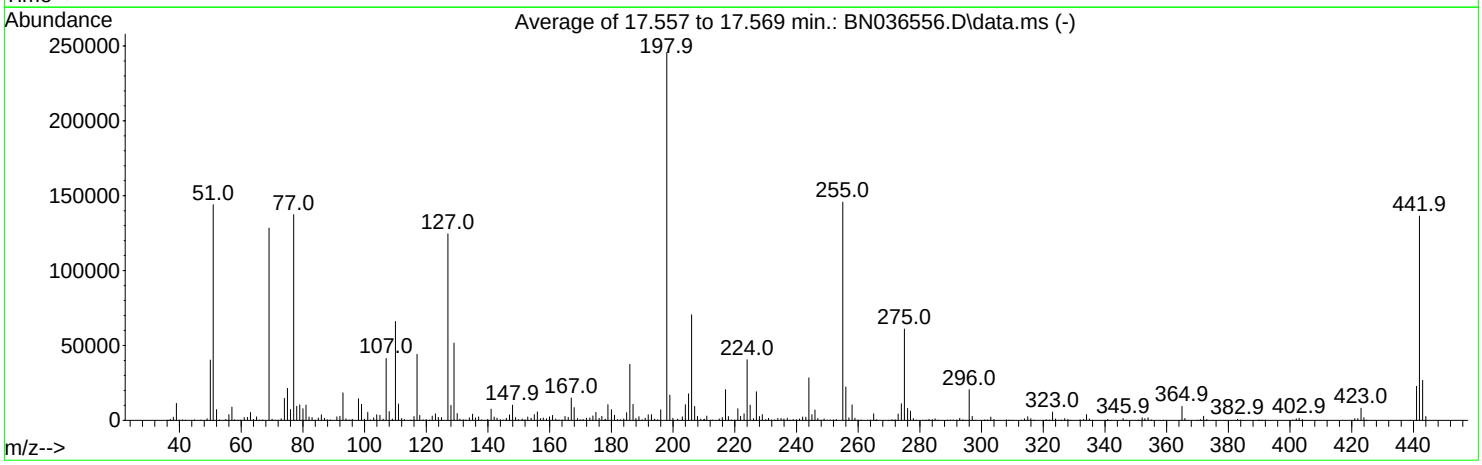
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036556.D
Acq On : 10 Mar 2025 11:03
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Mon Mar 10 16:06:28 2025





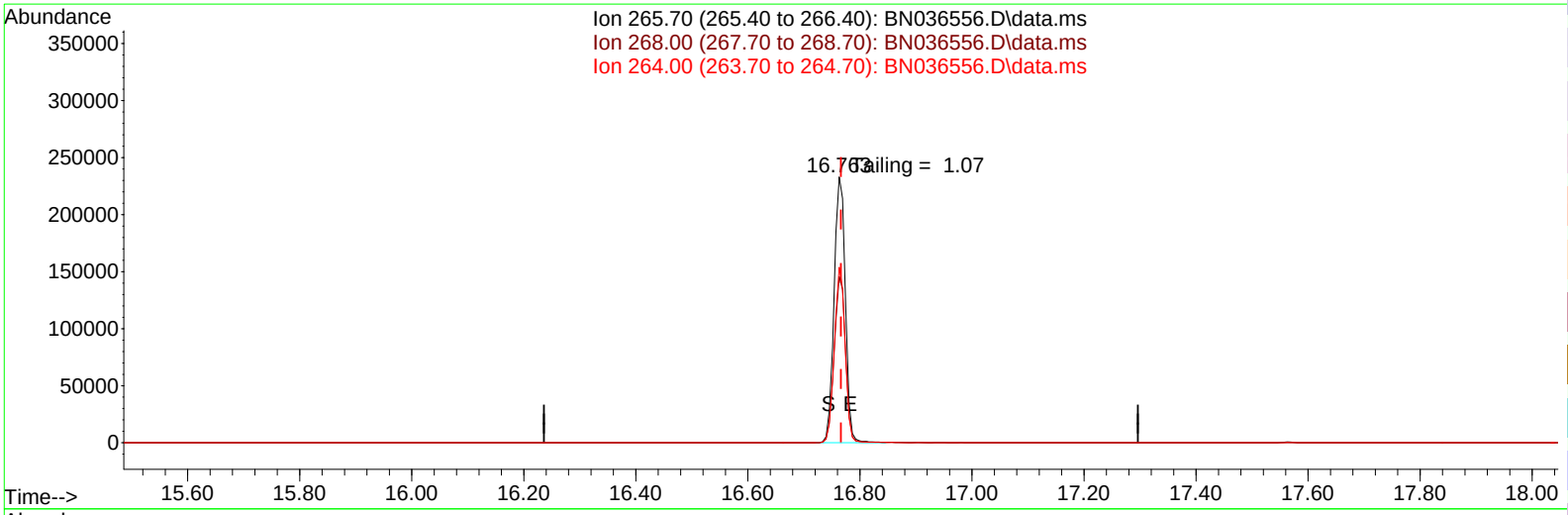
AutoFind: Scans 2460, 2461, 2462; Background Corrected with Scan 2453

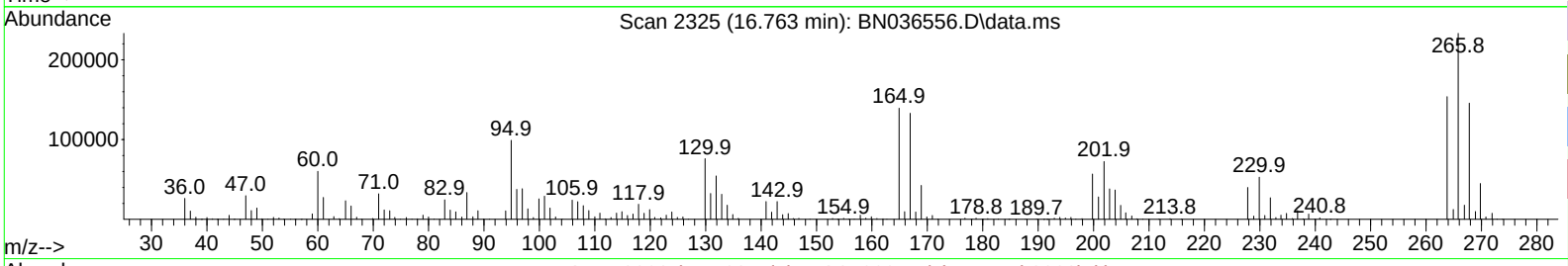
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	58.6	144050	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	52.3	128410	PASS
70	69	0.00	2	0.7	835	PASS
127	198	10	80	50.7	124576	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	245632	PASS
199	198	5	9	6.9	16887	PASS
275	198	10	60	24.8	60997	PASS
365	198	1	100	3.8	9349	PASS
441	198	0.01	100	9.3	22761	PASS
442	442	50	100	100.0	136488	PASS
443	442	15	24	19.6	26765	PASS

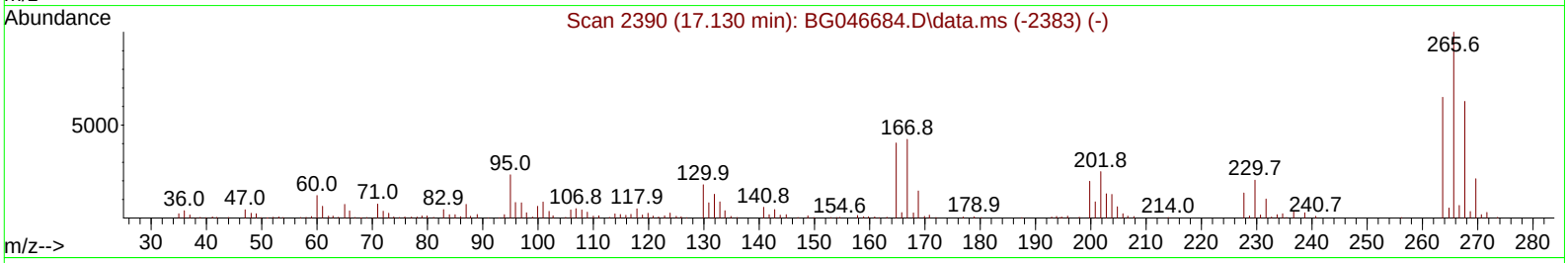
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036556.D
Acq On : 10 Mar 2025 11:03
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Mar 10 17:07:28 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 25 04:23:53 2024
Response via : Initial Calibration







TIC: BN036556.D\data.ms

(70) Pentachlorophenol (C)

16.763min (-0.003) 23577.14 ng

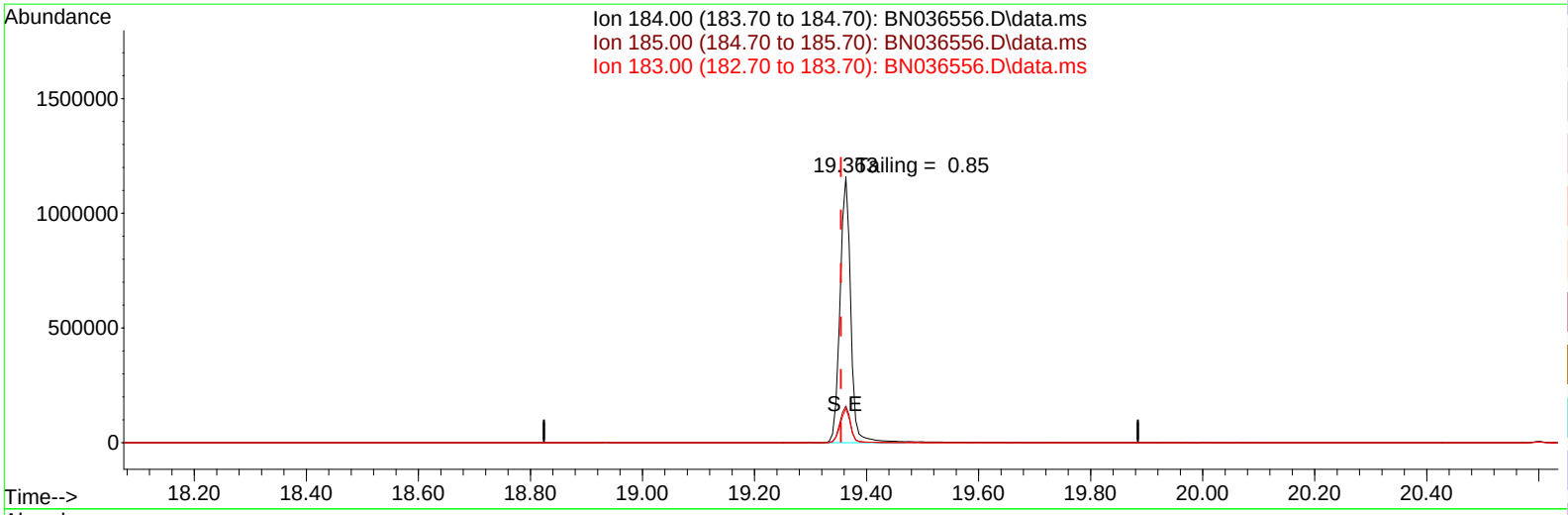
response 323613

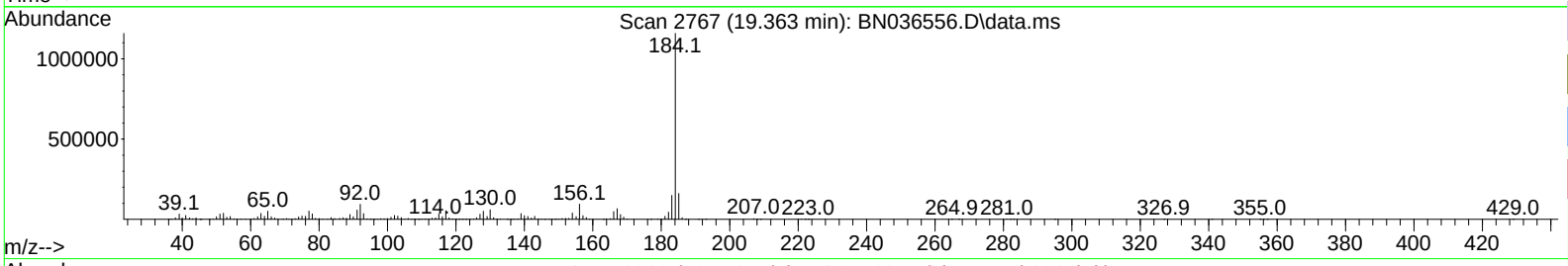
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	62.52
264.00	61.60	66.01
0.00	0.00	0.00

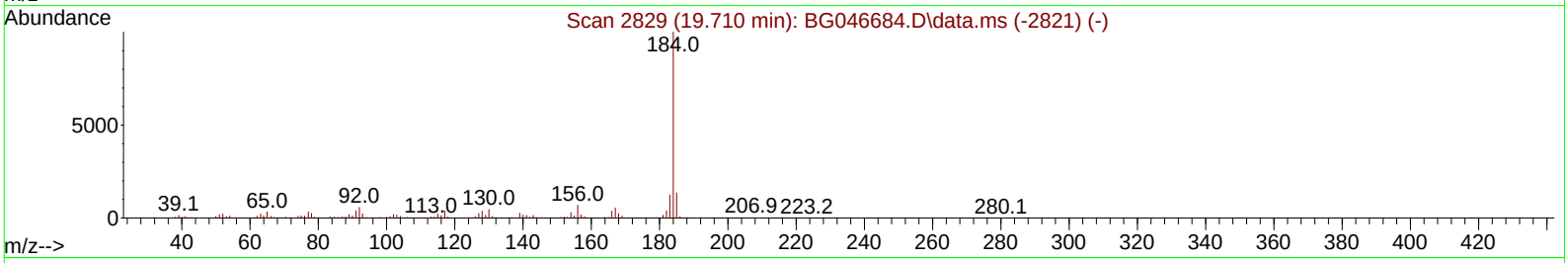
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036556.D
Acq On : 10 Mar 2025 11:03
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Mar 10 17:07:28 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 25 04:23:53 2024
Response via : Initial Calibration







TIC: BN036556.D\data.ms

(77) Benzidine

19.363min (+ 0.009) 0.00 ng

response 1553313

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	13.86
183.00	13.20	12.85
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

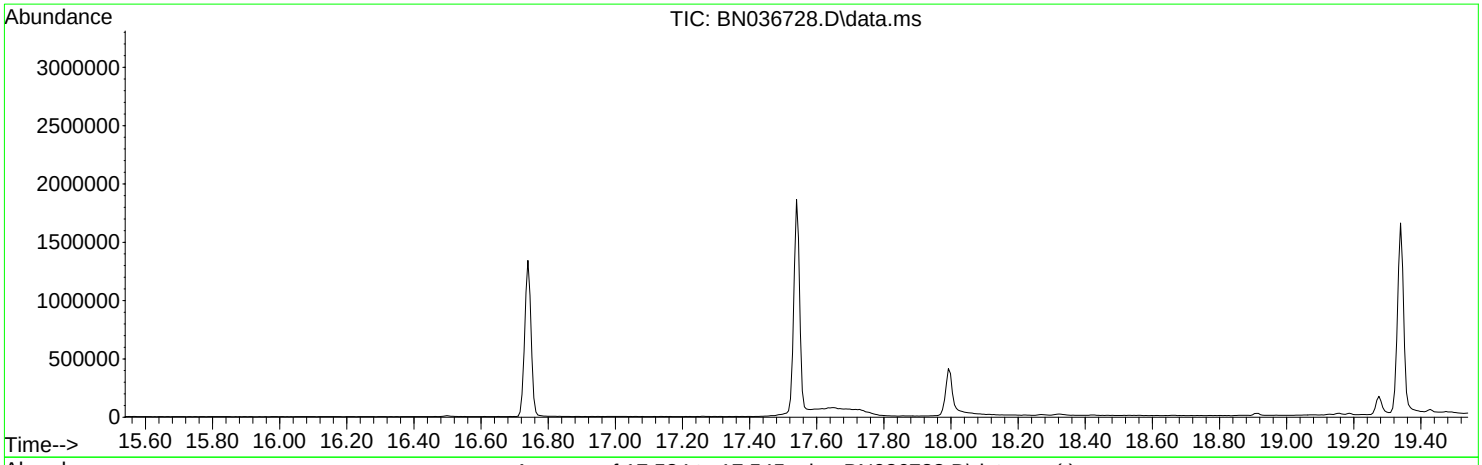
Date	Instrument Name	DFTPP Data File
3/10/2025	BNA_N	BN036556.D
Compound Name	**Response**	**Retention Time**
DDT	1110406	20.598
DDD	11596	20.21
DDE	530	19.645
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
12126	1122532	1.08

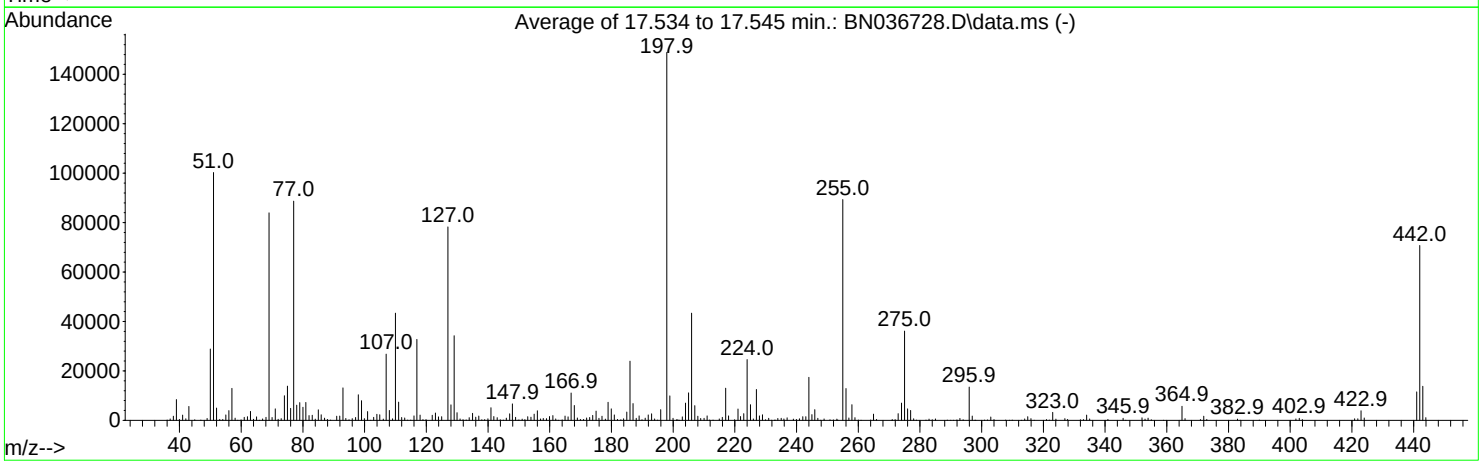
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036728.D
Acq On : 27 Mar 2025 09:10
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Mon Mar 10 16:06:28 2025





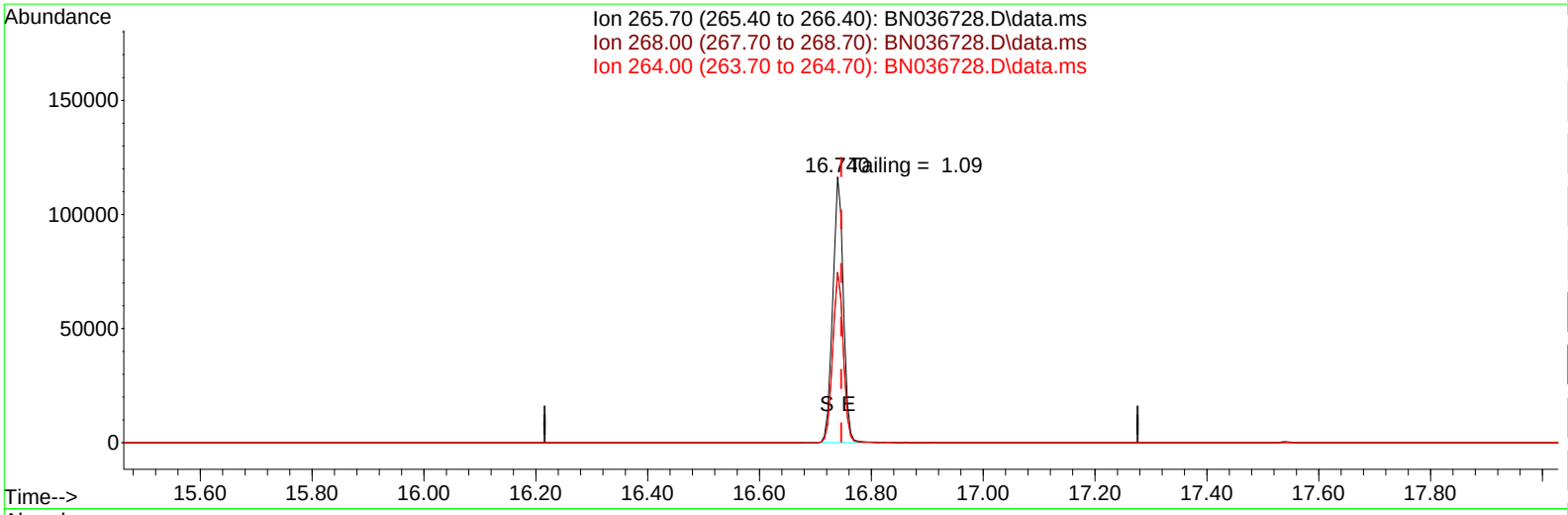
AutoFind: Scans 2456, 2457, 2458; Background Corrected with Scan 2449

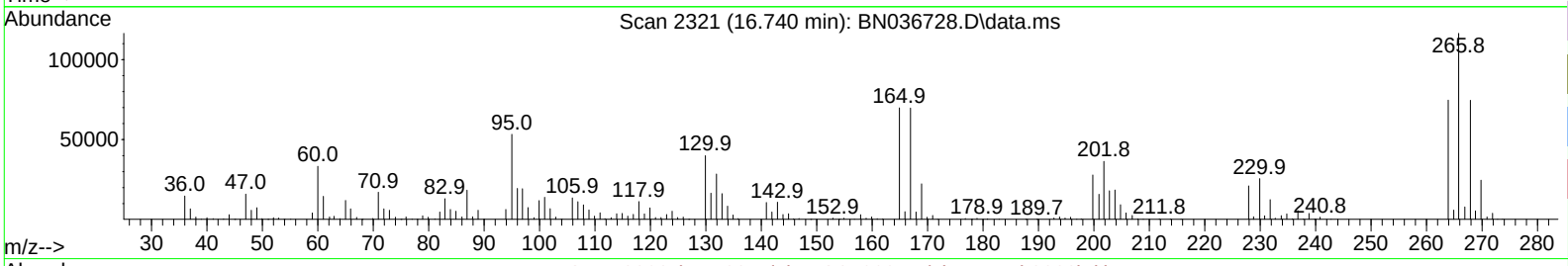
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	67.4	100301	PASS
68	69	0.00	2	1.4	1200	PASS
69	198	0.00	100	56.4	83945	PASS
70	69	0.00	2	1.4	1186	PASS
127	198	10	80	52.6	78248	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	148824	PASS
199	198	5	9	6.6	9881	PASS
275	198	10	60	24.3	36125	PASS
365	198	1	100	3.8	5714	PASS
441	198	0.01	100	7.8	11555	PASS
442	442	50	100	100.0	70779	PASS
443	442	15	24	19.5	13814	PASS

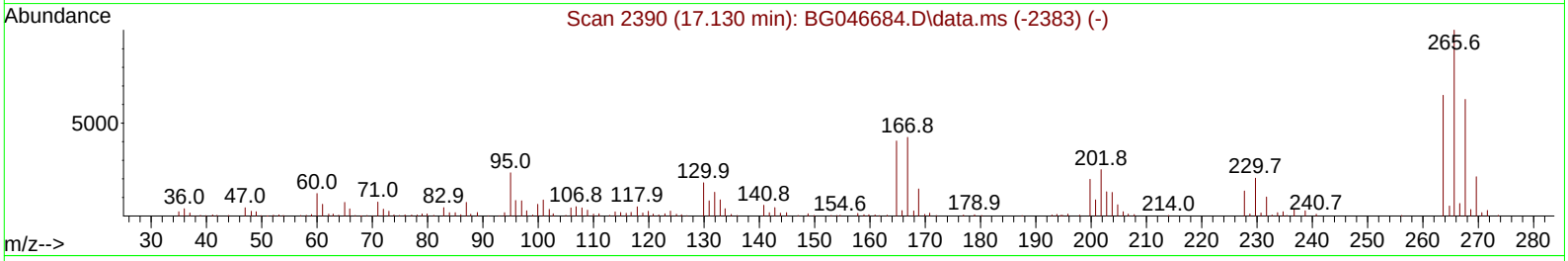
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036728.D
Acq On : 27 Mar 2025 09:10
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Mar 27 16:00:12 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Mar 18 01:27:23 2025
Response via : Initial Calibration







TIC: BN036728.D\data.ms

(70) Pentachlorophenol (C)

16.740min (-0.006) 17975.64 ng

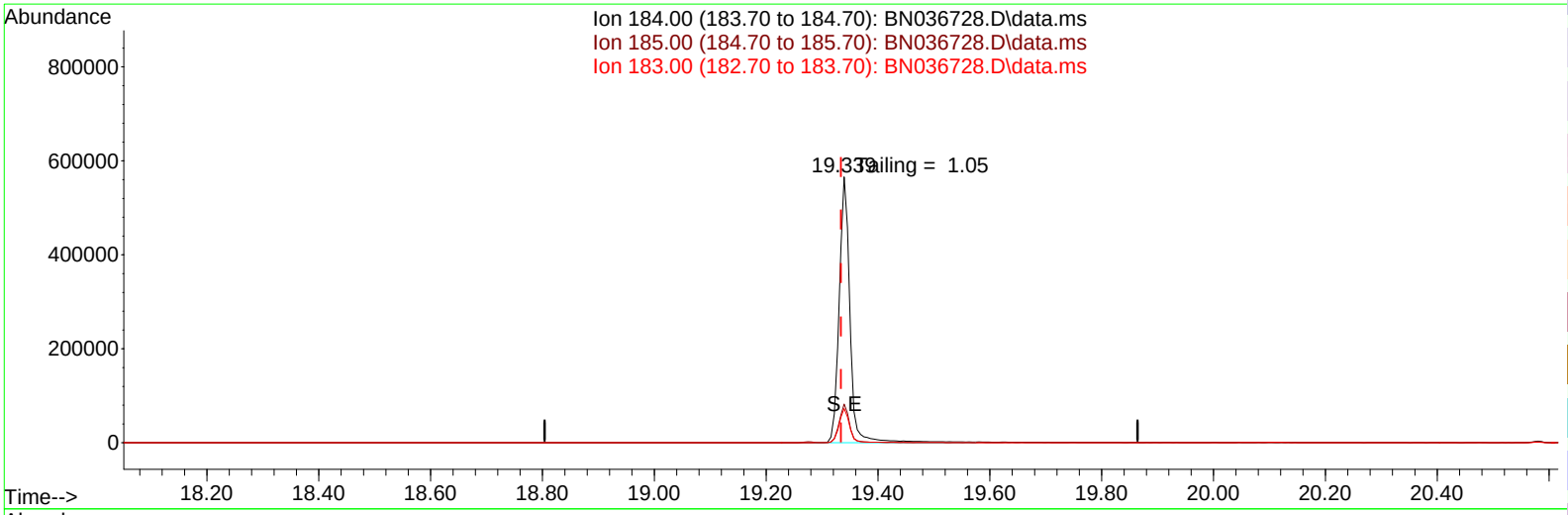
response 152777

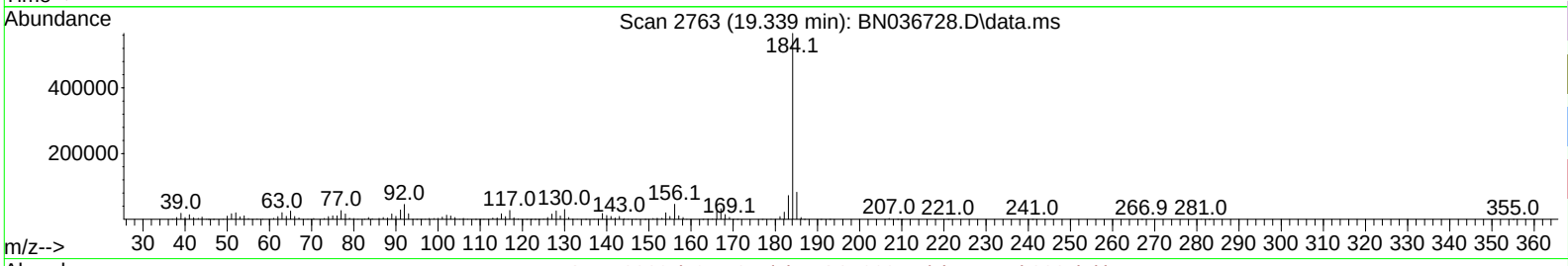
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	64.09
264.00	61.60	64.12
0.00	0.00	0.00

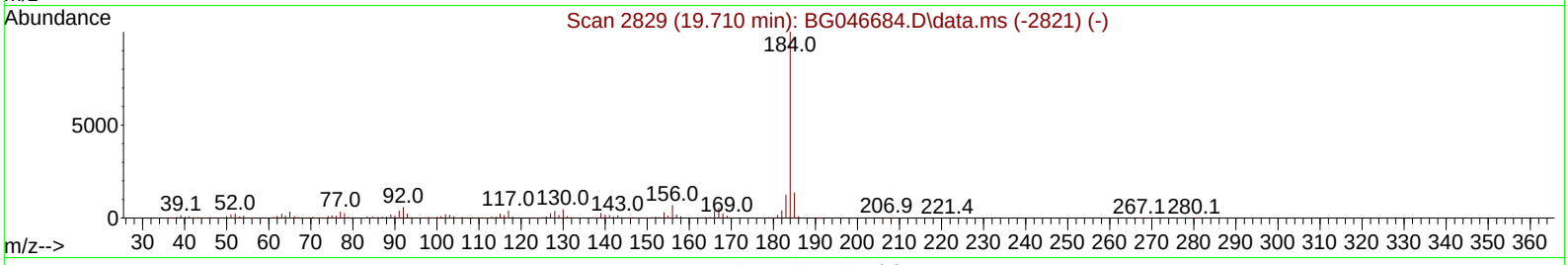
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036728.D
Acq On : 27 Mar 2025 09:10
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Mar 27 16:00:12 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Mar 18 01:27:23 2025
Response via : Initial Calibration







TIC: BN036728.D\data.ms

(77) Benzidine

19.339min (+ 0.005) 0.00 ng

response 768035

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.55
183.00	13.20	12.81
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

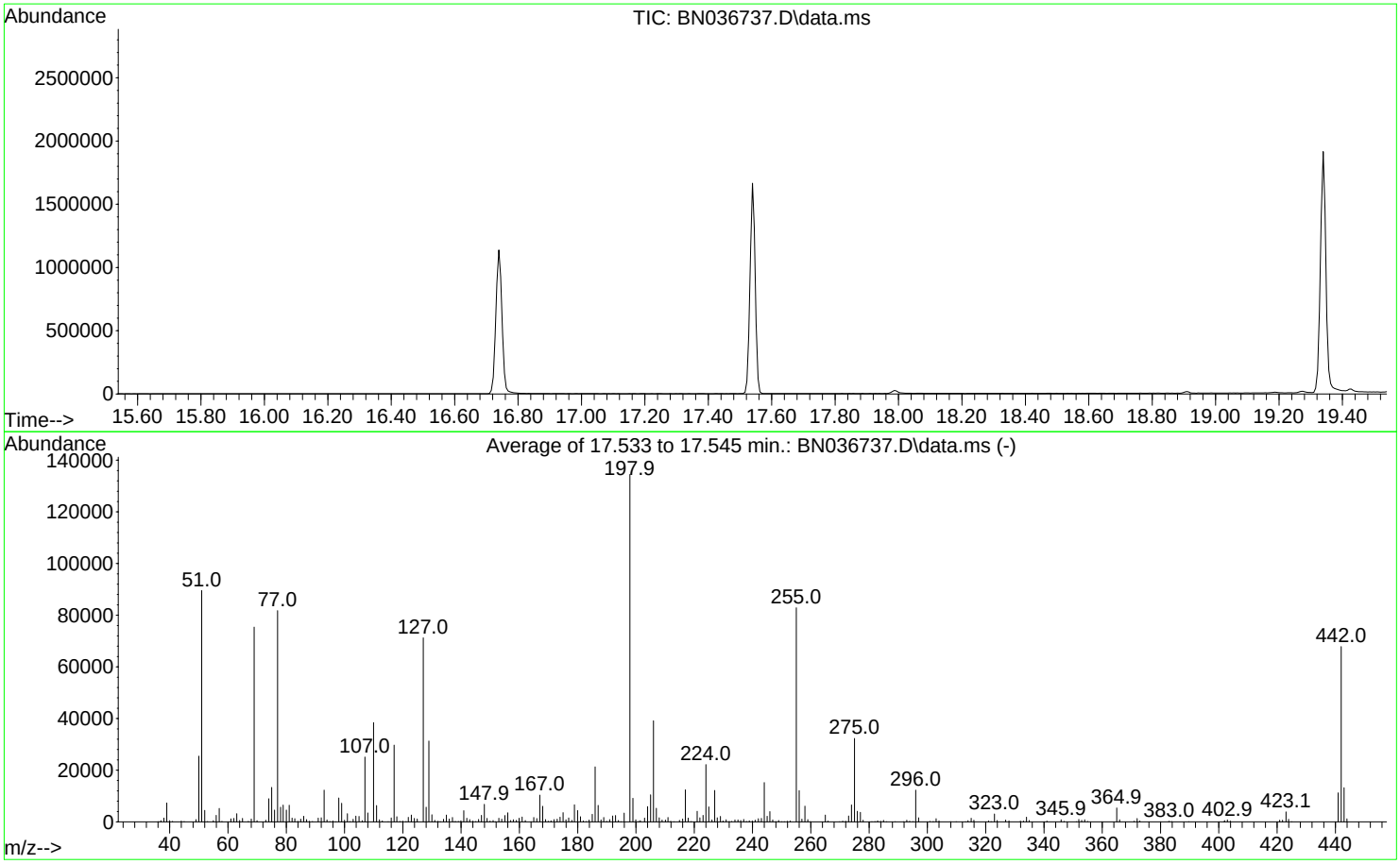
Date	Instrument Name	DFTPP Data File
3/27/2025	BNA_N	BN036728.D
Compound Name	**Response**	**Retention Time**
DDT	567441	20.581
DDD	8560	20.192
DDE	316	19.634
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
8876	576317	1.54

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036737.D
Acq On : 27 Mar 2025 14:38
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\8270-SIM-BN031025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Mon Mar 10 16:06:28 2025



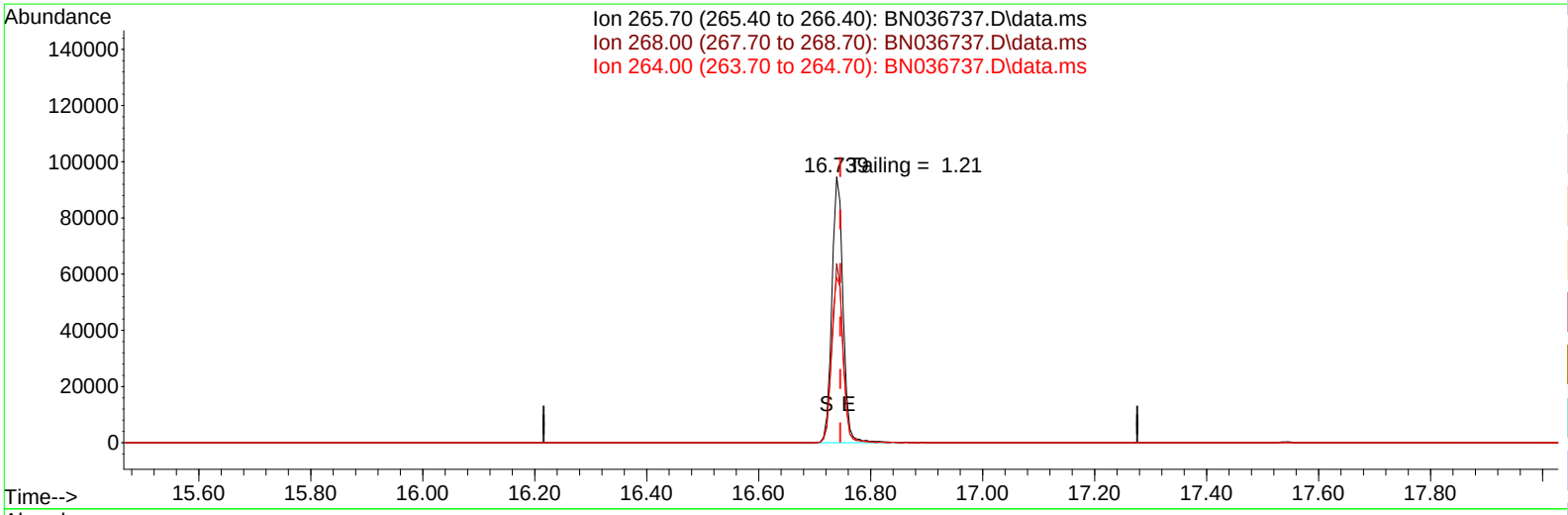
AutoFind: Scans 2456, 2457, 2458; Background Corrected with Scan 2450

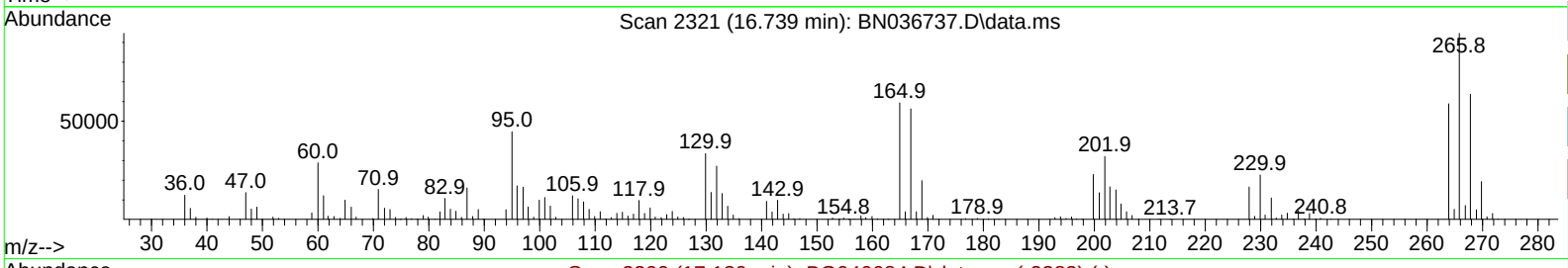
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	66.6	89520	PASS
68	69	0.00	2	1.4	1090	PASS
69	198	0.00	100	56.1	75413	PASS
70	69	0.00	2	0.6	451	PASS
127	198	10	80	53.0	71267	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	134472	PASS
199	198	5	9	6.8	9111	PASS
275	198	10	60	24.0	32293	PASS
365	198	1	100	4.0	5411	PASS
441	198	0.01	100	8.4	11249	PASS
442	442	50	100	100.0	67867	PASS
443	442	15	24	19.4	13200	PASS

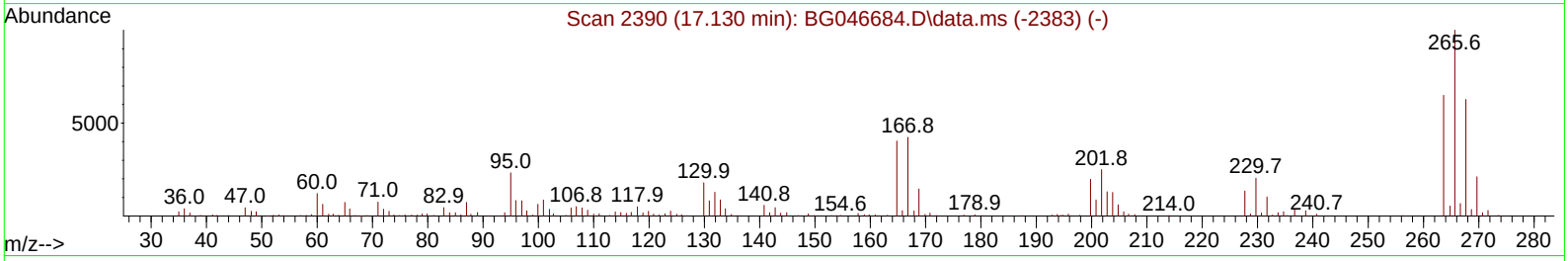
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036737.D
Acq On : 27 Mar 2025 14:38
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Mar 27 16:20:31 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Mar 18 01:27:23 2025
Response via : Initial Calibration







TIC: BN036737.D\data.ms

(70) Pentachlorophenol (C)

16.739min (-0.007) 15615.32 ng

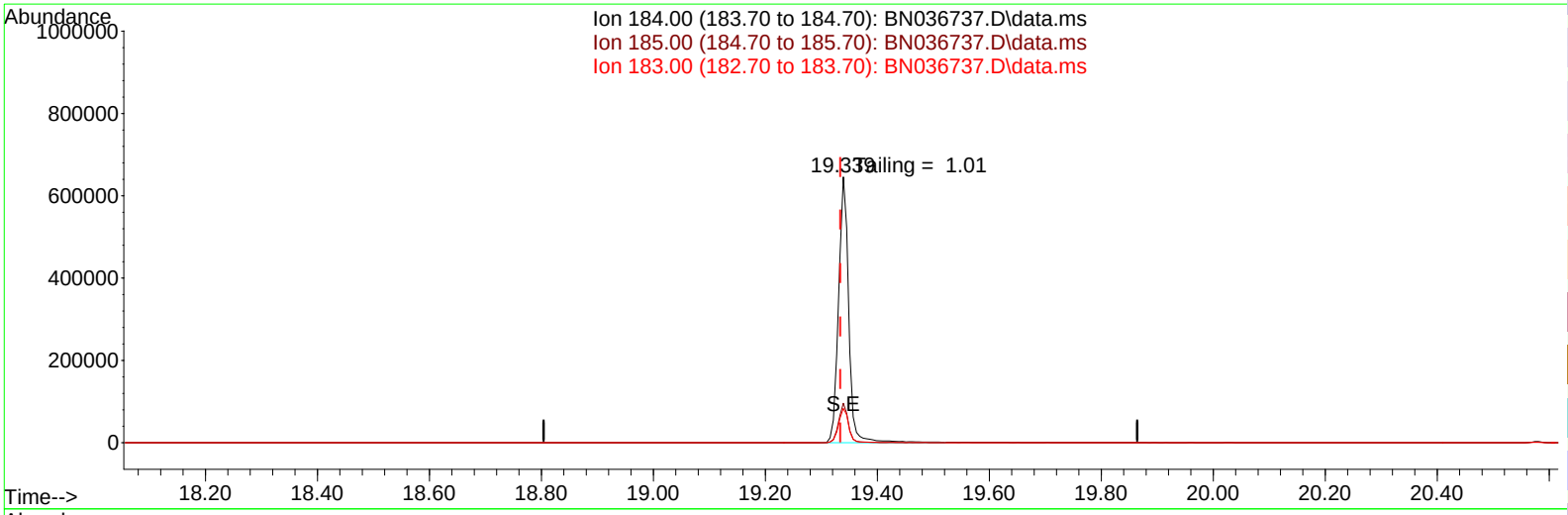
response 130388

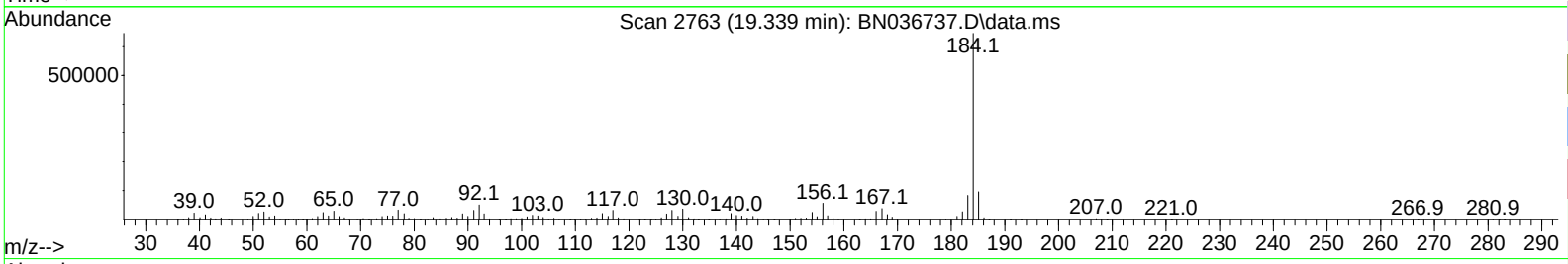
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	67.33
264.00	61.60	62.20
0.00	0.00	0.00

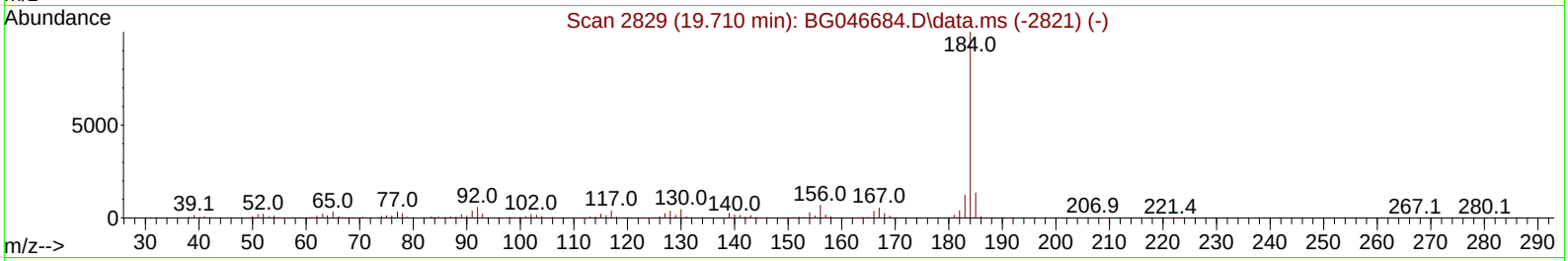
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036737.D
Acq On : 27 Mar 2025 14:38
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Mar 27 16:20:31 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Mar 18 01:27:23 2025
Response via : Initial Calibration







TIC: BN036737.D\data.ms

(77) Benzidine

19.339min (+ 0.005) 0.00 ng

response 821801

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.84
183.00	13.20	12.88
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

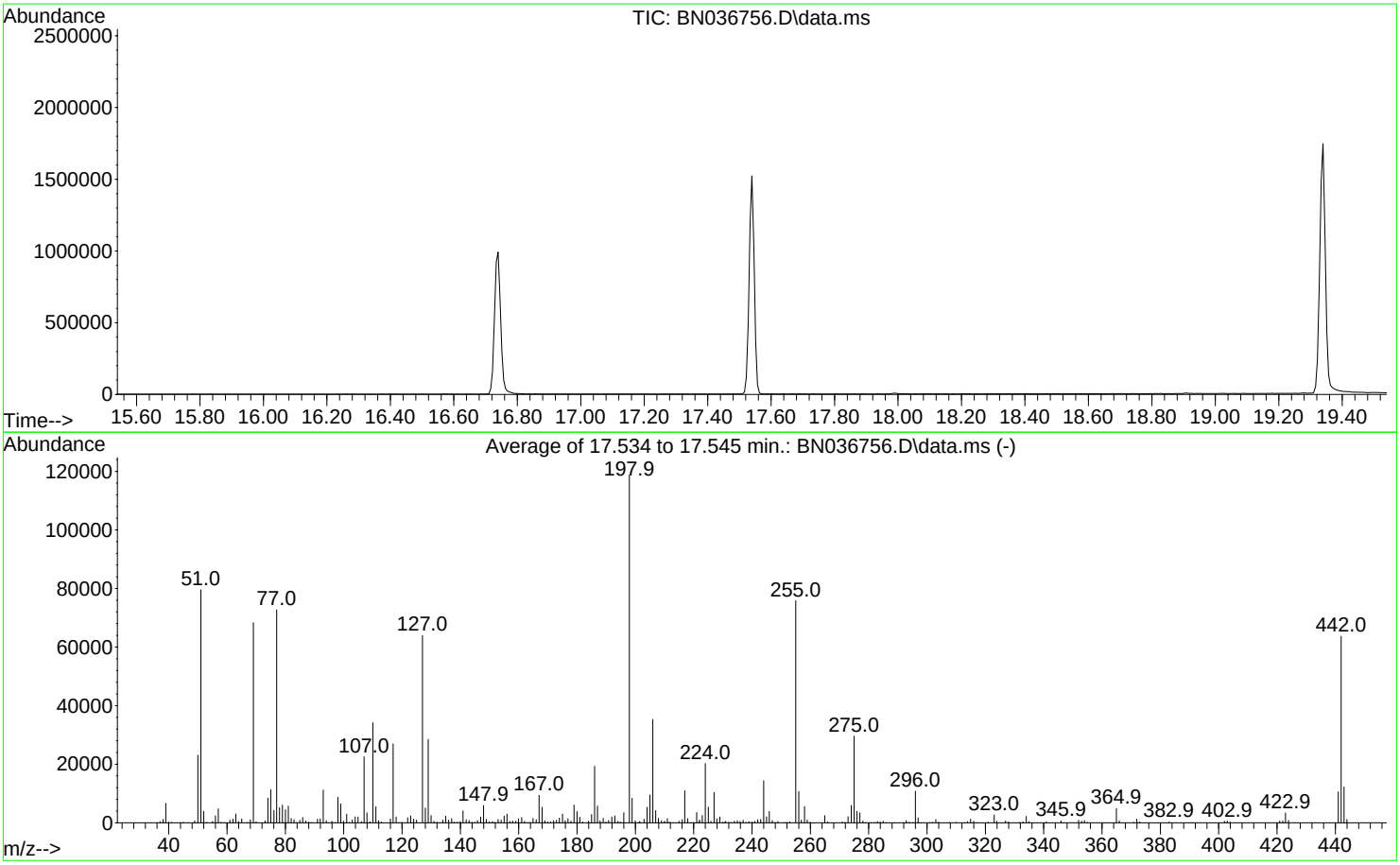
Date	Instrument Name	DFTPP Data File
3/27/2025	BNA_N	BN036737.D
Compound Name	**Response**	**Retention Time**
DDT	502438	20.58
DDD	5610	20.186
DDE	360	19.627
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
5970	508408	1.17

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036756.D
Acq On : 28 Mar 2025 03:07
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Mon Mar 10 16:06:28 2025



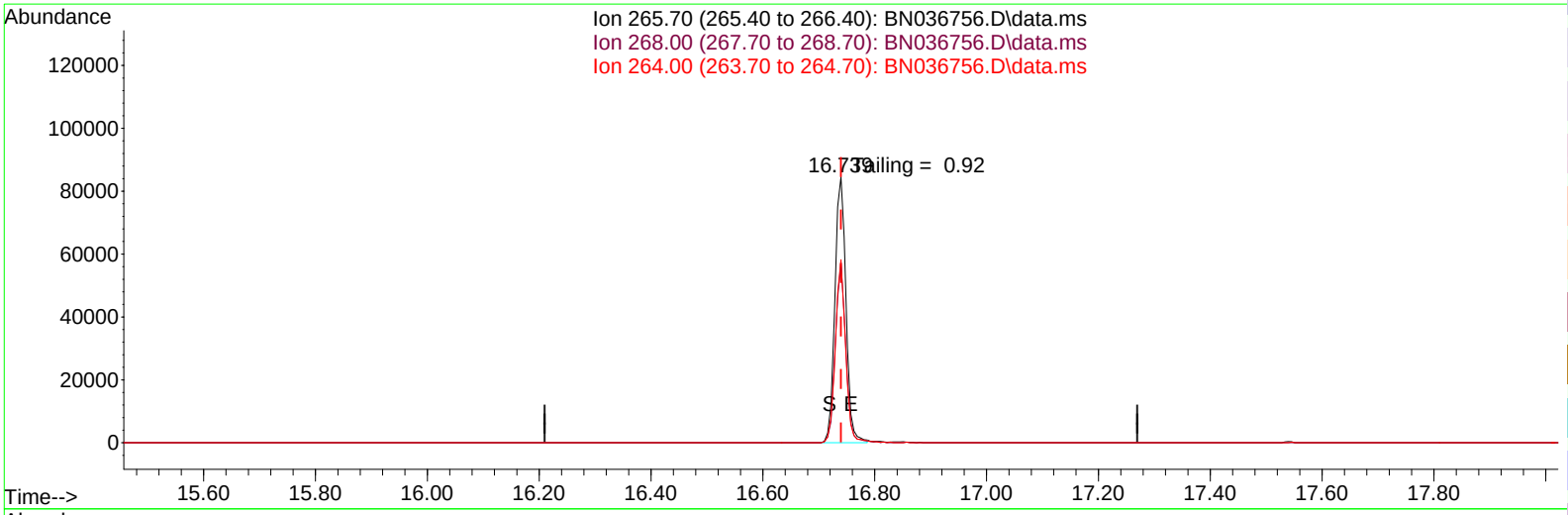
AutoFind: Scans 2456, 2457, 2458; Background Corrected with Scan 2450

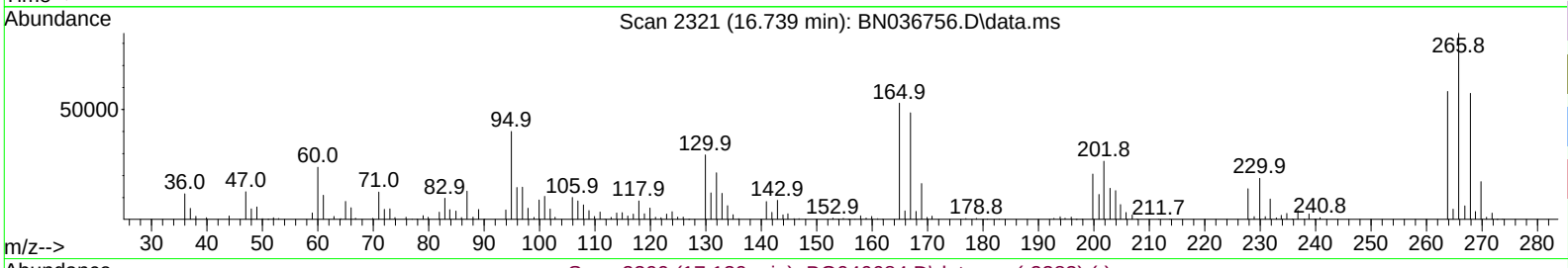
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	67.0	79608	PASS
68	69	0.00	2	1.5	1020	PASS
69	198	0.00	100	57.5	68325	PASS
70	69	0.00	2	0.5	357	PASS
127	198	10	80	53.9	63944	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	118744	PASS
199	198	5	9	7.1	8386	PASS
275	198	10	60	24.9	29595	PASS
365	198	1	100	4.1	4858	PASS
441	198	0.01	100	8.9	10582	PASS
442	442	50	100	100.0	63691	PASS
443	442	15	24	19.2	12256	PASS

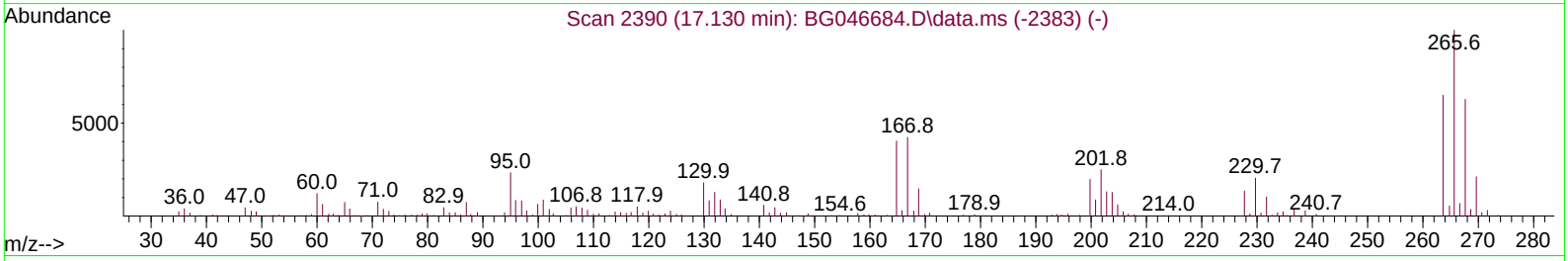
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036756.D
Acq On : 28 Mar 2025 03:07
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Mar 28 05:40:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Mar 28 05:40:24 2025
Response via : Initial Calibration







TIC: BN036756.D\data.ms

(70) Pentachlorophenol (C)

16.739min (0.000) 15913.57 ng

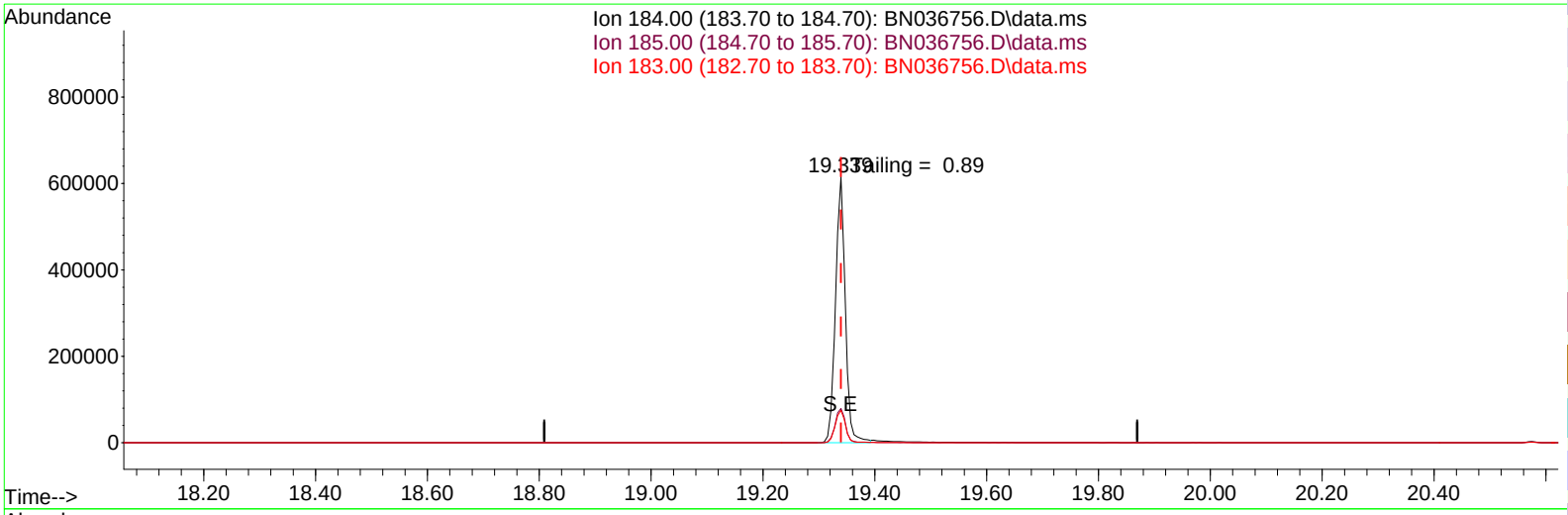
response 116893

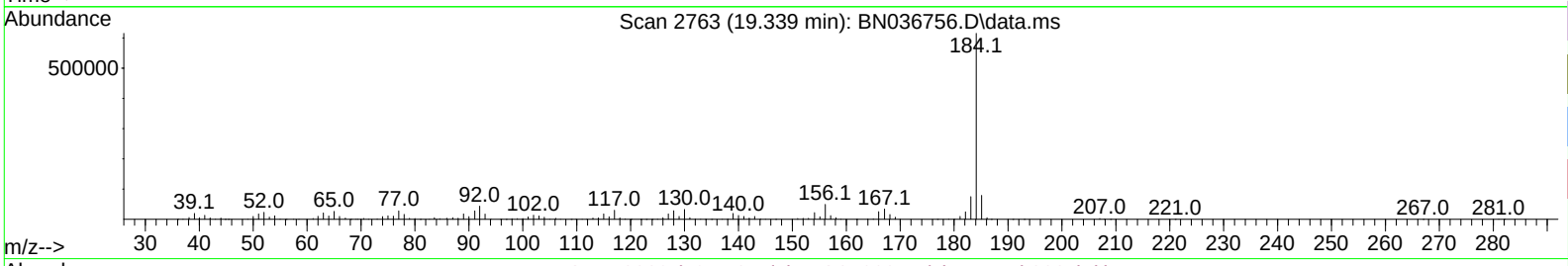
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	67.77
264.00	61.60	68.86
0.00	0.00	0.00

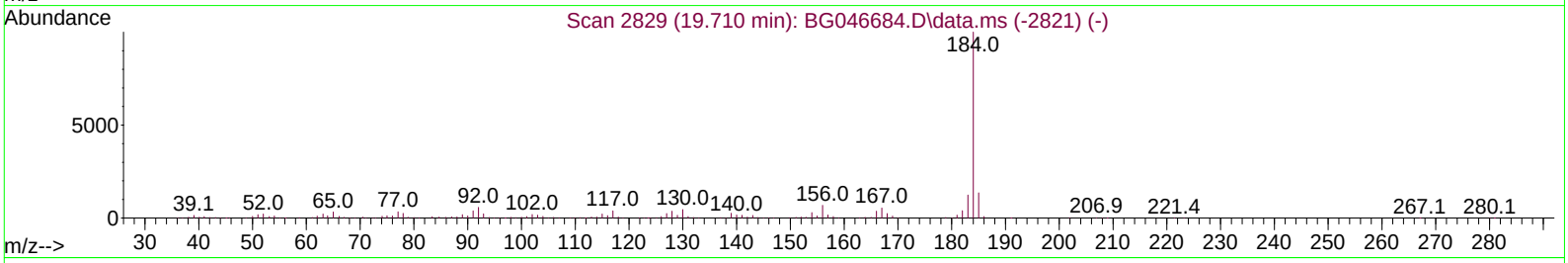
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036756.D
Acq On : 28 Mar 2025 03:07
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Mar 28 05:40:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Mar 28 05:40:24 2025
Response via : Initial Calibration







TIC: BN036756.D\data.ms

(77) Benzidine

19.339min (0.000) 0.00 ng

response 762967

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	12.92
183.00	13.20	12.18
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

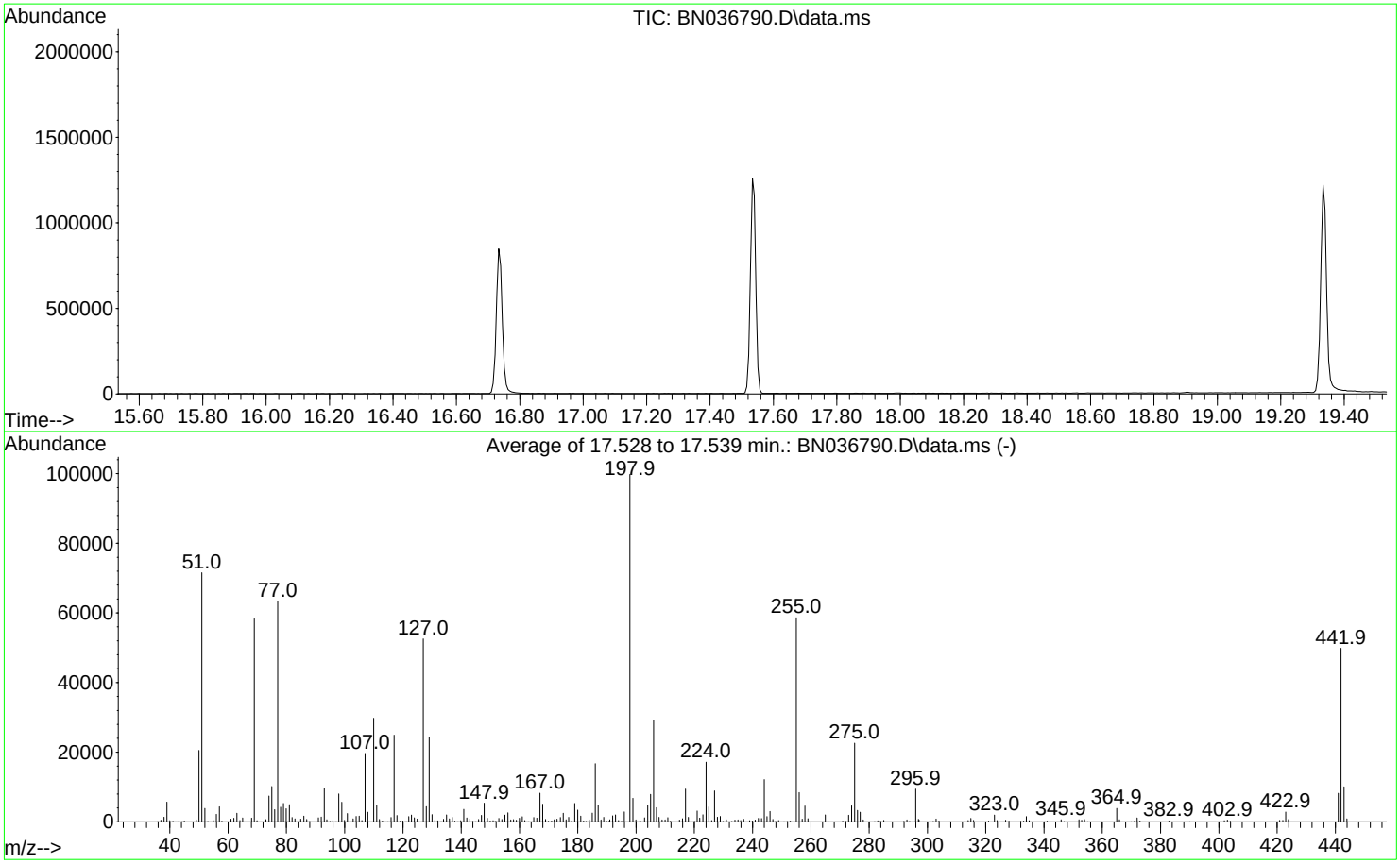
Date	Instrument Name	DFTPP Data File
3/27/2025	BNA_N	BN036756.D
Compound Name	**Response**	**Retention Time**
DDT	412653	20.575
DDD	5613	20.186
DDE	207	19.633
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
5820	418473	1.39

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
Data File : BN036790.D
Acq On : 29 Mar 2025 01:26
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Mon Mar 10 16:06:28 2025



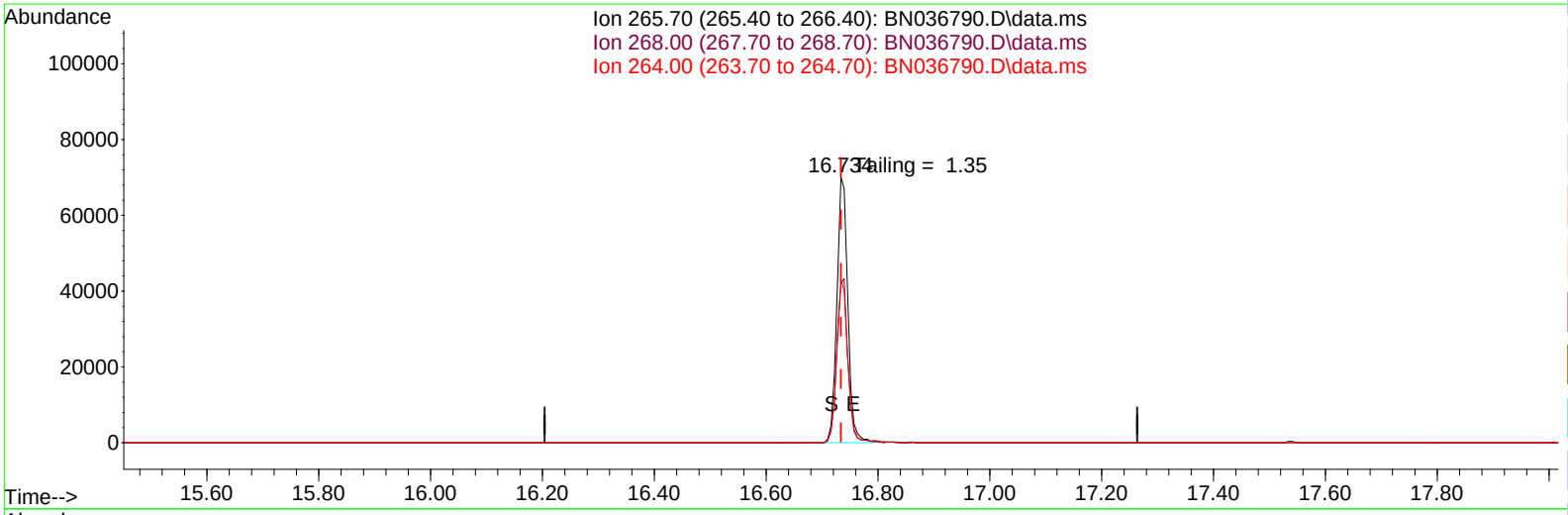
AutoFind: Scans 2455, 2456, 2457; Background Corrected with Scan 2449

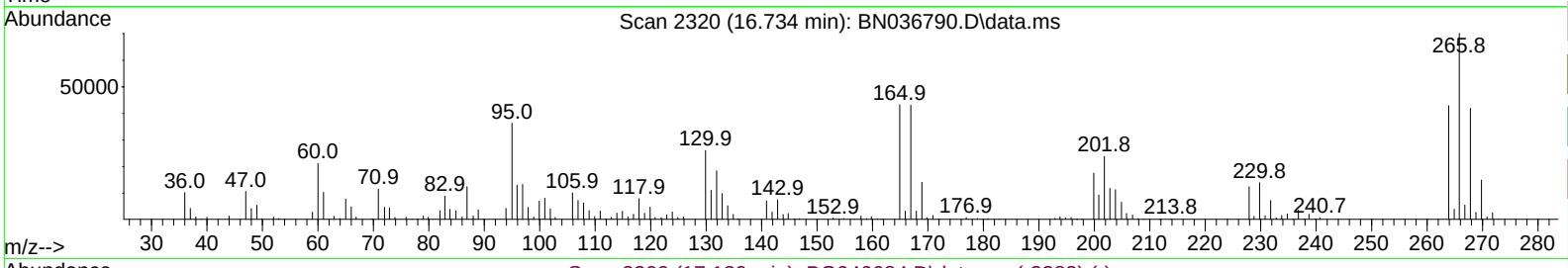
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	71.7	71579	PASS
68	69	0.00	2	1.9	1100	PASS
69	198	0.00	100	58.5	58331	PASS
70	69	0.00	2	0.6	333	PASS
127	198	10	80	52.7	52565	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	99763	PASS
199	198	5	9	6.8	6769	PASS
275	198	10	60	22.7	22601	PASS
365	198	1	100	3.9	3887	PASS
441	198	0.01	100	8.2	8219	PASS
442	442	50	100	100.0	49867	PASS
443	442	15	24	20.2	10070	PASS

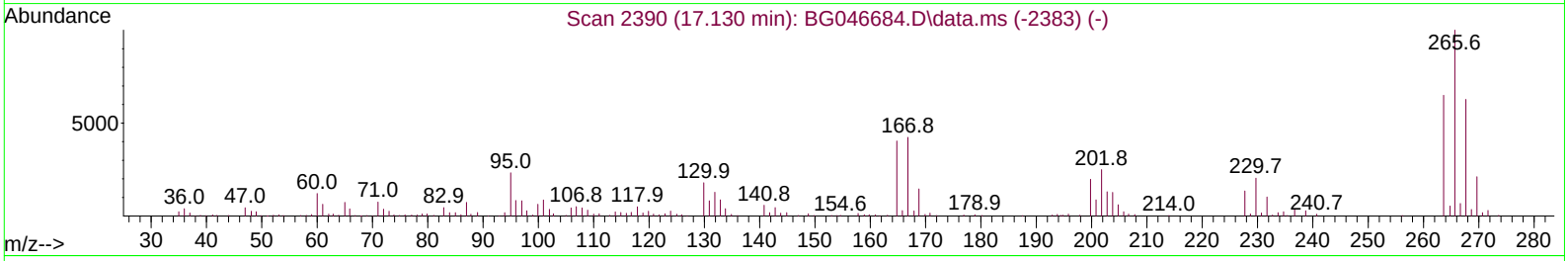
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
Data File : BN036790.D
Acq On : 29 Mar 2025 01:26
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Apr 01 00:17:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Apr 01 00:16:52 2025
Response via : Initial Calibration







TIC: BN036790.D\data.ms

(70) Pentachlorophenol (C)

16.734min (0.000) 16501.63 ng

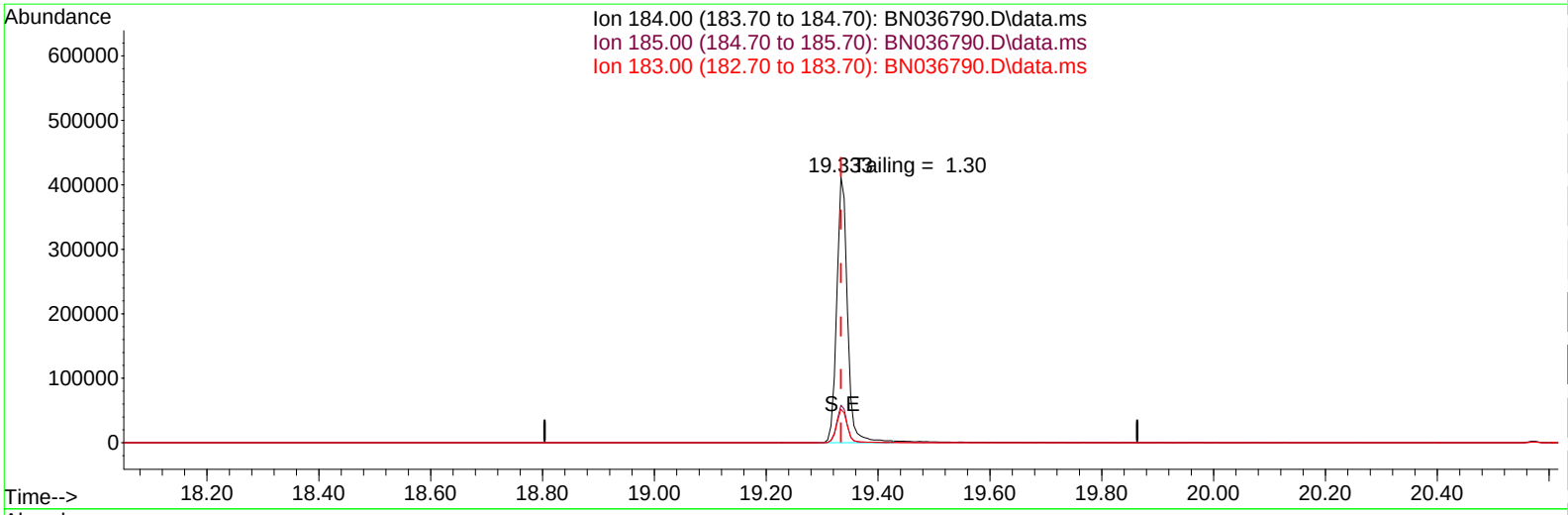
response 96219

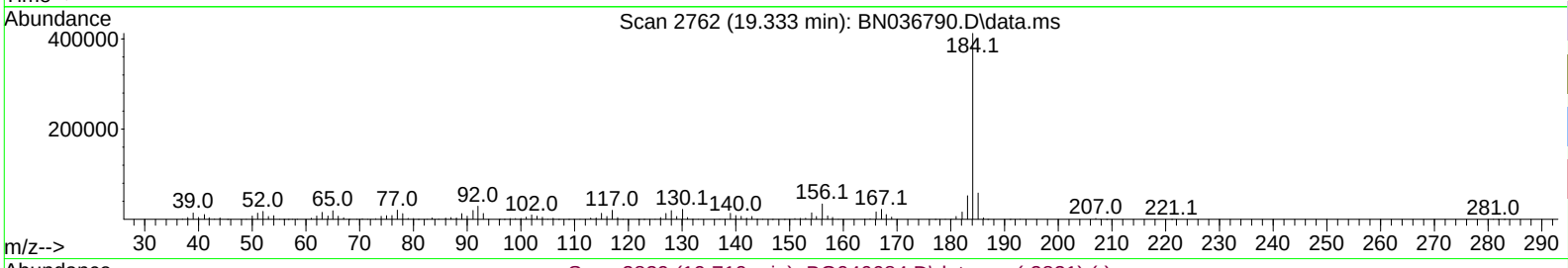
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	59.83
264.00	61.60	61.22
0.00	0.00	0.00

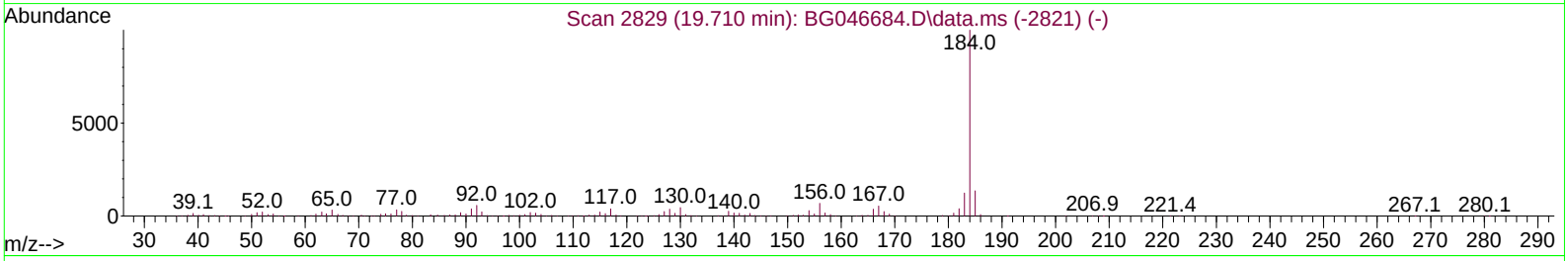
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
Data File : BN036790.D
Acq On : 29 Mar 2025 01:26
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Apr 01 00:17:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Apr 01 00:16:52 2025
Response via : Initial Calibration







TIC: BN036790.D\data.ms

(77) Benzidine

19.333min (0.000) 0.00 ng

response 556362

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.17
183.00	13.20	12.68
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

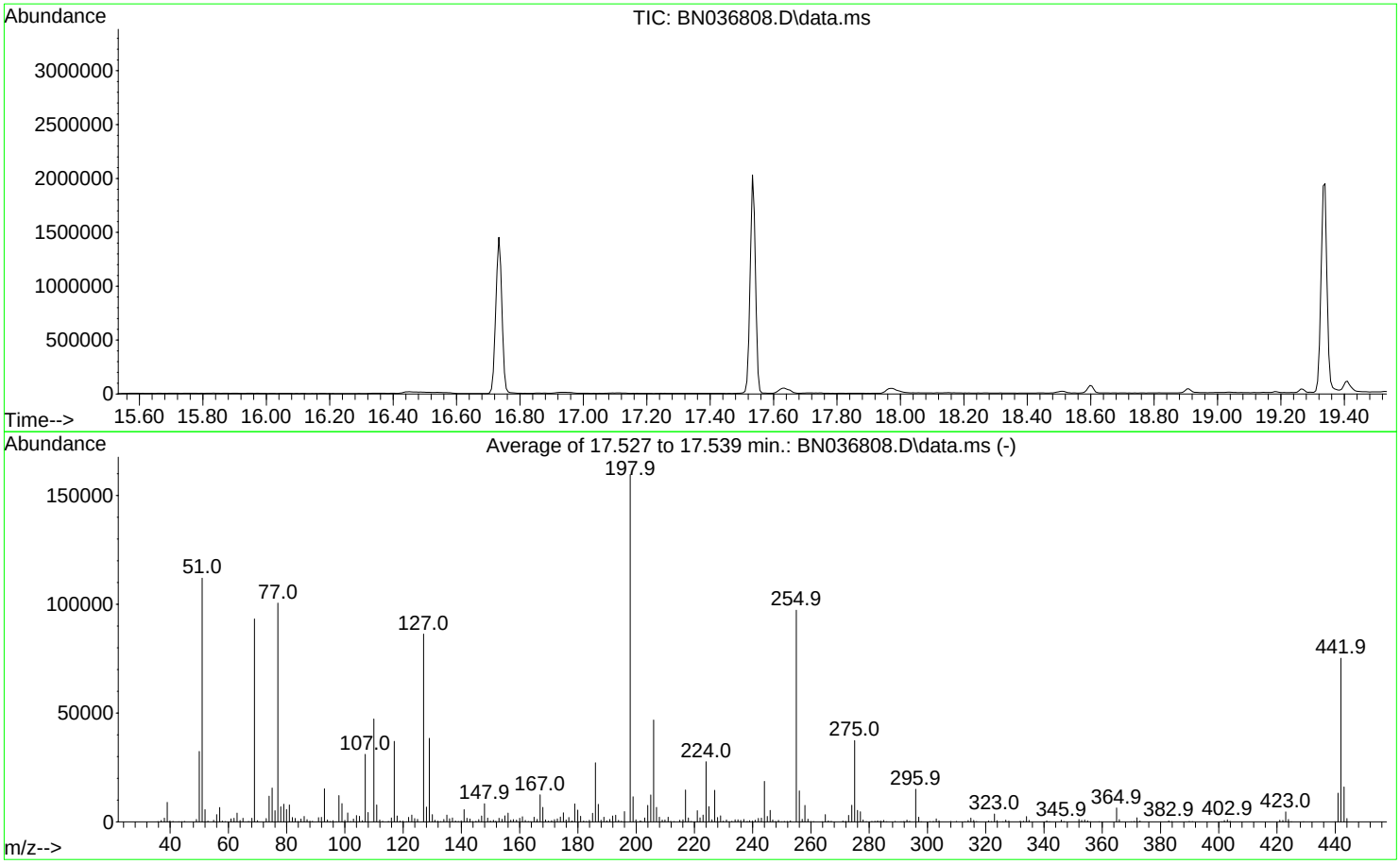
Date	Instrument Name	DFTPP Data File
3/28/2025	BNA_N	BN036790.D
Compound Name	**Response**	**Retention Time**
DDT	356014	20.575
DDD	5380	20.133
DDE	263	19.628
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
5643	361657	1.56

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN033125\
Data File : BN036808.D
Acq On : 31 Mar 2025 10:00
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\8270-SIM-BN031025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Mon Mar 10 16:06:28 2025



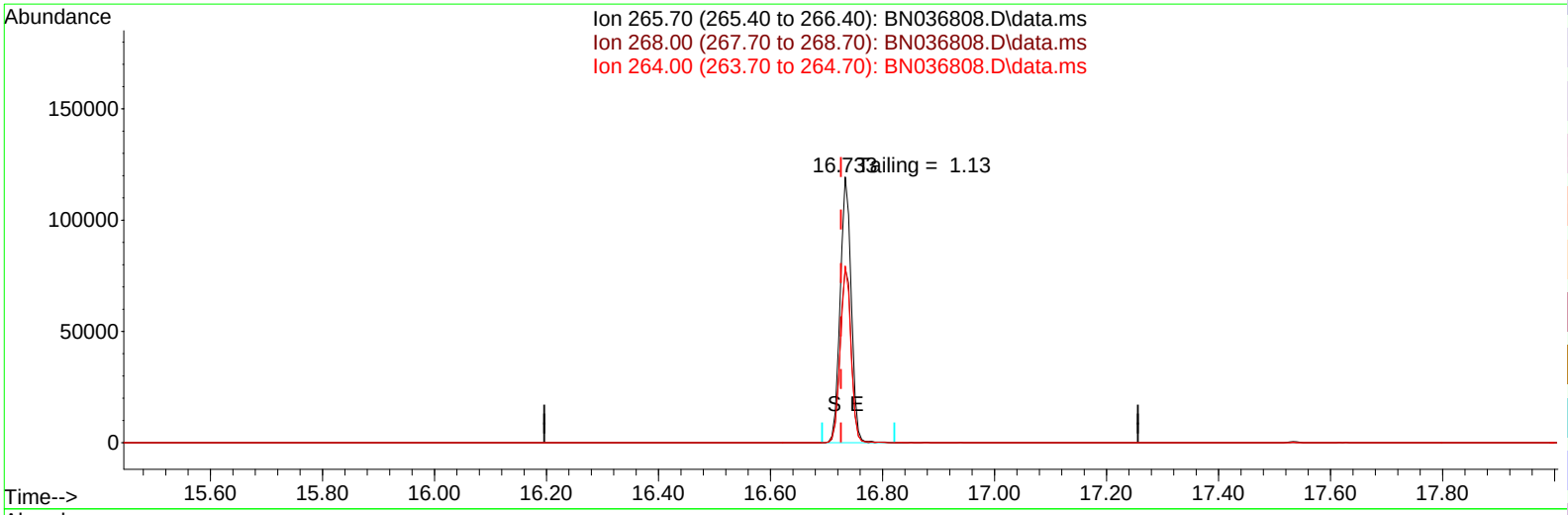
AutoFind: Scans 2455, 2456, 2457; Background Corrected with Scan 2449

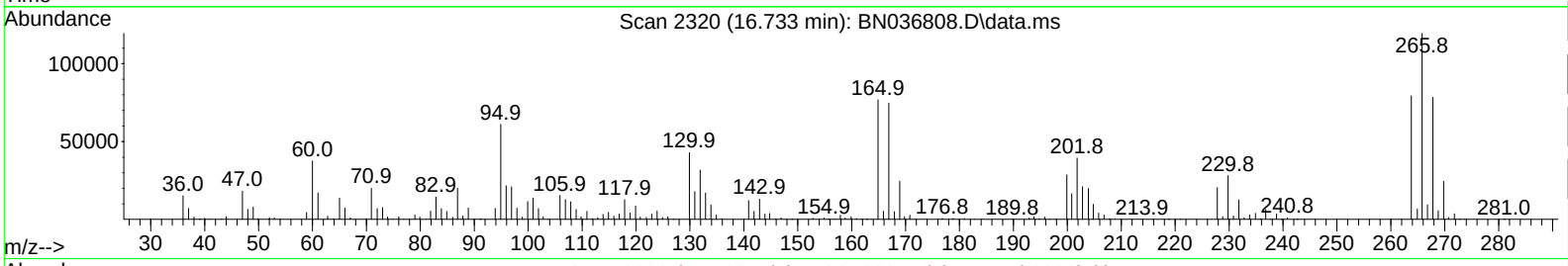
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	70.2	112056	PASS
68	69	0.00	2	1.8	1674	PASS
69	198	0.00	100	58.4	93275	PASS
70	69	0.00	2	0.6	564	PASS
127	198	10	80	54.1	86363	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	159677	PASS
199	198	5	9	7.2	11540	PASS
275	198	10	60	23.4	37339	PASS
365	198	1	100	4.0	6395	PASS
441	198	0.01	100	8.3	13207	PASS
442	442	50	100	100.0	75192	PASS
443	442	15	24	21.3	16045	PASS

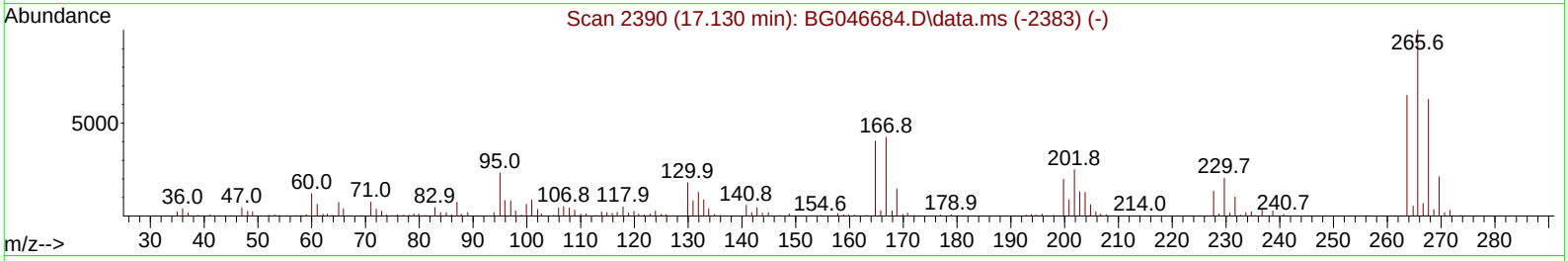
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN033125\
Data File : BN036808.D
Acq On : 31 Mar 2025 10:00
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Mar 31 12:42:19 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Mar 29 04:33:53 2025
Response via : Initial Calibration







TIC: BN036808.D\data.ms

(70) Pentachlorophenol (C)

16.733min (+ 0.007) 18057.26 ng

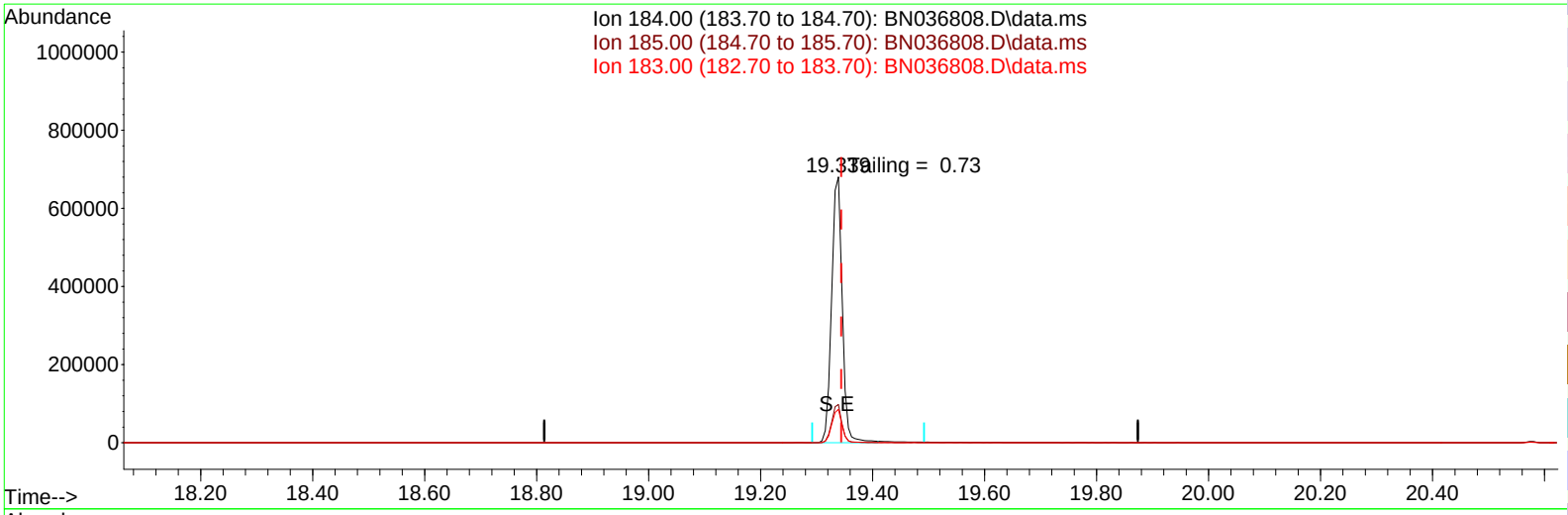
response 163532

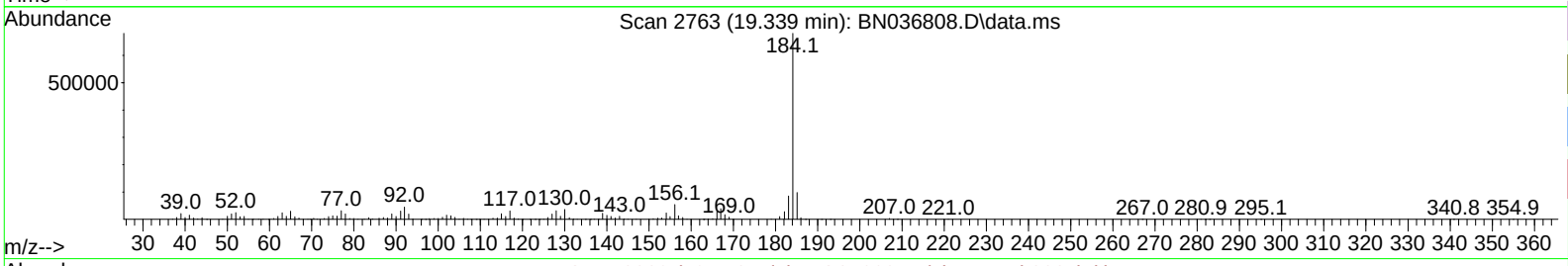
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	65.65
264.00	61.60	66.47
0.00	0.00	0.00

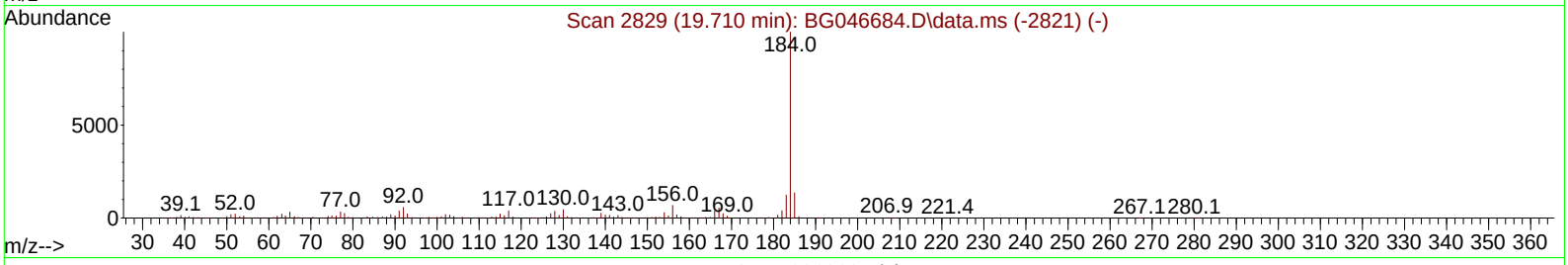
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN033125\
Data File : BN036808.D
Acq On : 31 Mar 2025 10:00
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Mar 31 12:45:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Mar 29 04:33:53 2025
Response via : Initial Calibration







TIC: BN036808.D\data.ms

(77) Benzidine

19.339min (-0.005) 0.00 ng

response 903894

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.38
183.00	13.20	12.51
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

Date	Instrument Name	DFTPP Data File
3/31/2025	BNA_N	BN036808.D
Compound Name	**Response**	**Retention Time**
DDT	562026	20.58
DDD	7640	20.186
DDE	699	19.627
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
8339	570365	1.46

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage - RW5B CTO WE13 112G08005	Date Received:	
Client Sample ID:	PB167269BL	SDG No.:	Q1621
Lab Sample ID:	PB167269BL	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
BN036758.D	1	03/24/25 08:15	03/28/25 04:22	PB167269

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		83%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.41		30 - 150		102%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.31		55 - 111		78%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.29		53 - 106		73%	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	2130	7.703				
1146-65-2	Naphthalene-d8	4740	10.498				
15067-26-2	Acenaphthene-d10	2600	14.345				
1517-22-2	Phenanthrene-d10	5170	17.099				
1719-03-5	Chrysene-d12	3970	21.277				
1520-96-3	Perylene-d12	2210	23.528				

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\BN032725\
Data File : BN036758.D
Acq On : 28 Mar 2025 04:22
Operator : RC/JU
Sample : PB167269BL
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB167269BL

Quant Time: Mar 28 05:37:19 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

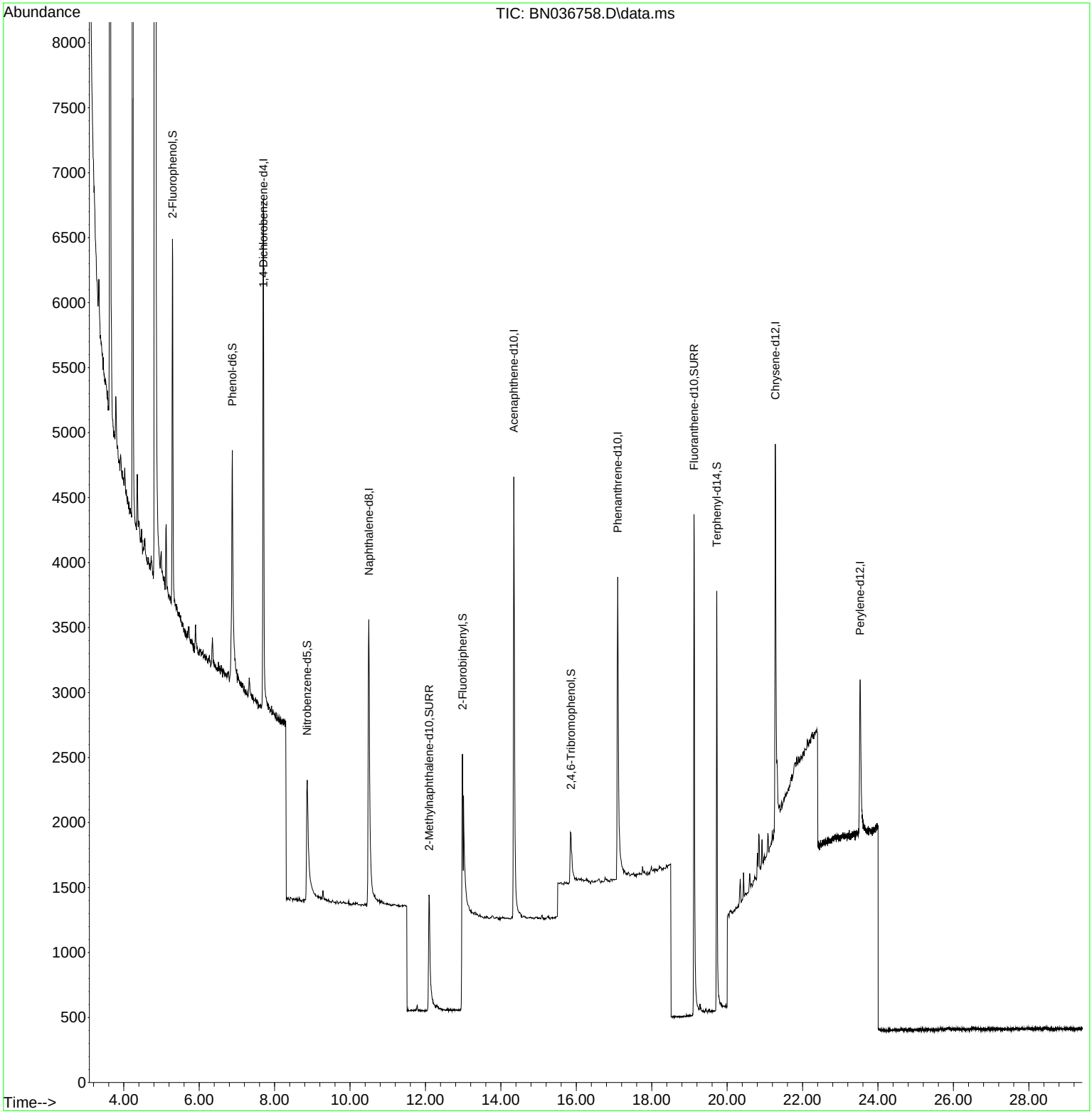
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.703	152	2126	0.400	ng	-0.02
7) Naphthalene-d8	10.498	136	4744	0.400	ng	-0.01
13) Acenaphthene-d10	14.345	164	2602	0.400	ng	-0.02
19) Phenanthrene-d10	17.099	188	5169	0.400	ng	#-0.01
29) Chrysene-d12	21.277	240	3967	0.400	ng	-0.02
35) Perylene-d12	23.528	264	2206	0.400	ng	#-0.03
System Monitoring Compounds						
4) 2-Fluorophenol	5.298	112	2117	0.427	ng	-0.01
5) Phenol-d6	6.879	99	2225	0.364	ng	-0.02
8) Nitrobenzene-d5	8.864	82	1610	0.312	ng	-0.01
11) 2-Methylnaphthalene-d10	12.095	152	2360	0.334	ng	-0.02
14) 2,4,6-Tribromophenol	15.857	330	426	0.361	ng	0.00
15) 2-Fluorobiphenyl	12.983	172	4427	0.292	ng	0.00
27) Fluoranthene-d10	19.122	212	5420	0.409	ng	-0.02
31) Terphenyl-d14	19.726	244	3725	0.392	ng	-0.02
Target Compounds						Qvalue

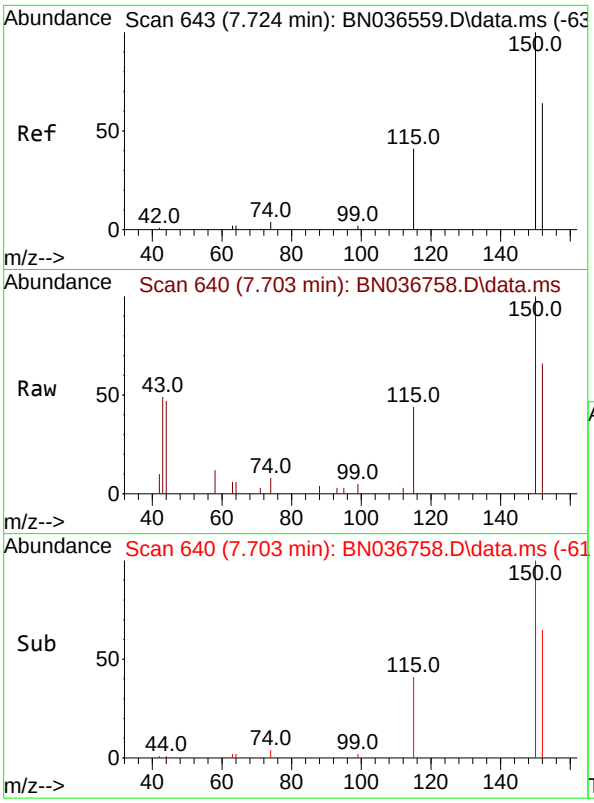
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036758.D
Acq On : 28 Mar 2025 04:22
Operator : RC/JU
Sample : PB167269BL
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB167269BL

Quant Time: Mar 28 05:37:19 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



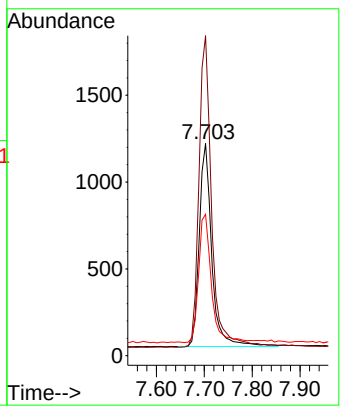


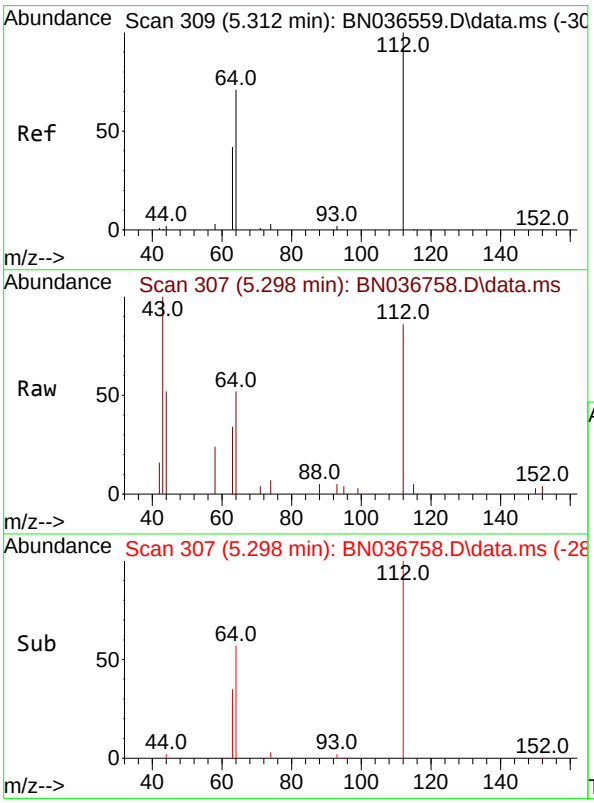
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.703 min Scan# 64
Delta R.T. -0.021 min
Lab File: BN036758.D
Acq: 28 Mar 2025 04:22

Instrument :
BNA_N
ClientSampleId :
PB167269BL

Tgt Ion:152 Resp: 2126

Ion	Ratio	Lower	Upper
152	100		
150	150.8	123.7	185.5
115	66.7	54.3	81.5

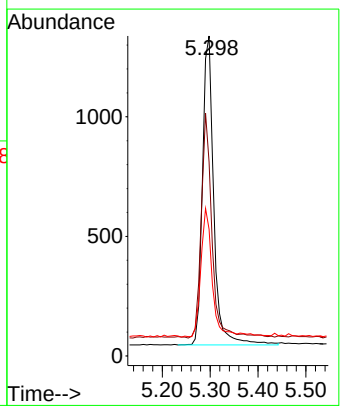


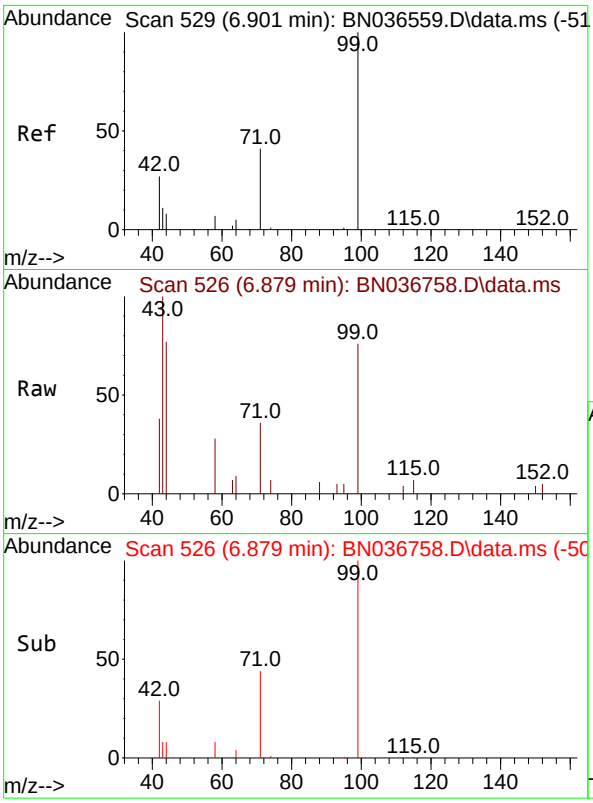


#4
2-Fluorophenol
Concen: 0.427 ng
RT: 5.298 min Scan# 307
Delta R.T. -0.014 min
Lab File: BN036758.D
Acq: 28 Mar 2025 04:22

Tgt Ion:112 Resp: 2117

Ion	Ratio	Lower	Upper
112	100		
64	69.8	53.1	79.7
63	42.0	31.8	47.8



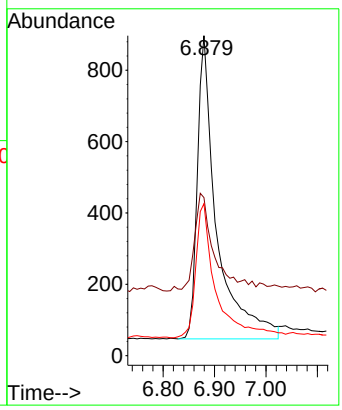


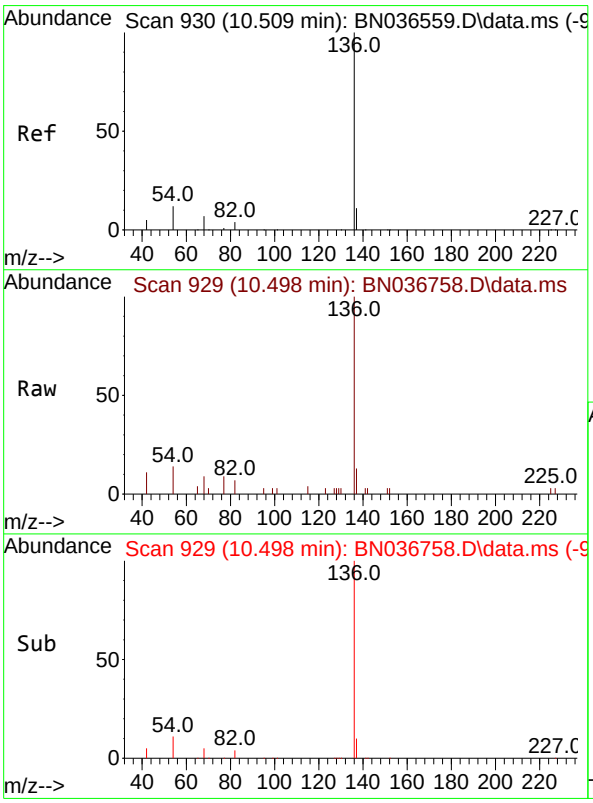
#5
Phenol-d6
Concen: 0.364 ng
RT: 6.879 min Scan# 5
Delta R.T. -0.022 min
Lab File: BN036758.D
Acq: 28 Mar 2025 04:22

Instrument :
BNA_N
ClientSampleId :
PB167269BL

Tgt Ion: 99 Resp: 2225

Ion	Ratio	Lower	Upper
99	100		
42	33.1	26.5	39.7
71	46.4	34.1	51.1

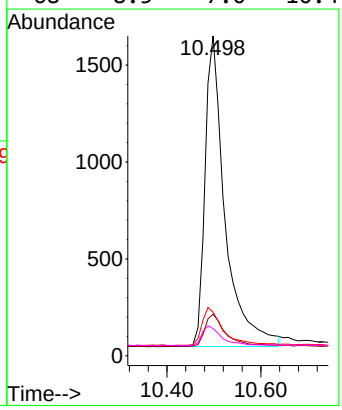


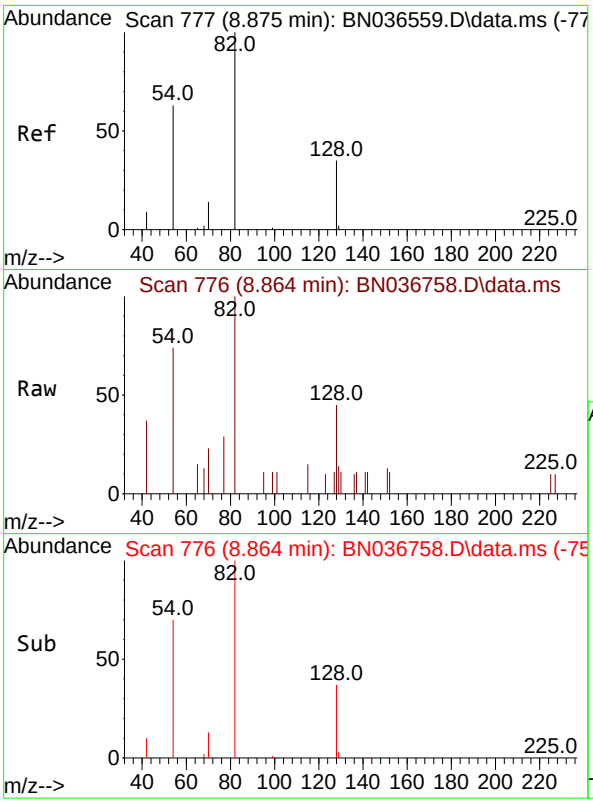


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 929
Delta R.T. -0.011 min
Lab File: BN036758.D
Acq: 28 Mar 2025 04:22

Tgt Ion:136 Resp: 4744

Ion	Ratio	Lower	Upper
136	100		
137	13.0	10.3	15.5
54	13.6	11.5	17.3
68	8.5	7.0	10.4



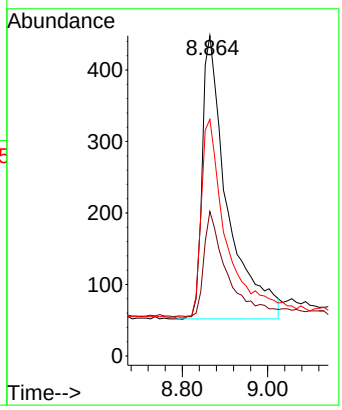


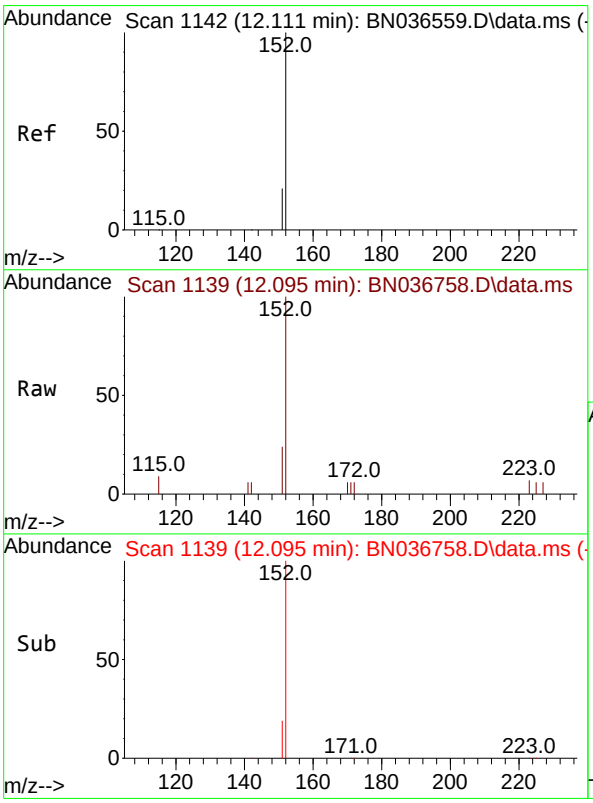
#8
Nitrobenzene-d5
Concen: 0.312 ng
RT: 8.864 min Scan# 7
Delta R.T. -0.011 min
Lab File: BN036758.D
Acq: 28 Mar 2025 04:22

Instrument :
BNA_N
ClientSampleId :
PB167269BL

Tgt Ion: 82 Resp: 1610

Ion	Ratio	Lower	Upper
82	100		
128	45.1	30.6	45.8
54	73.9	52.2	78.4

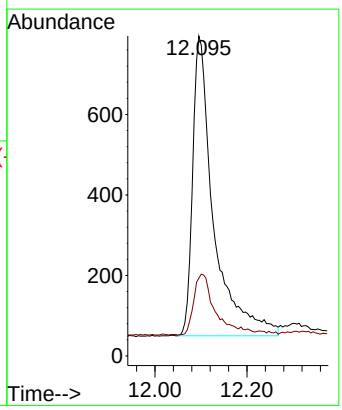


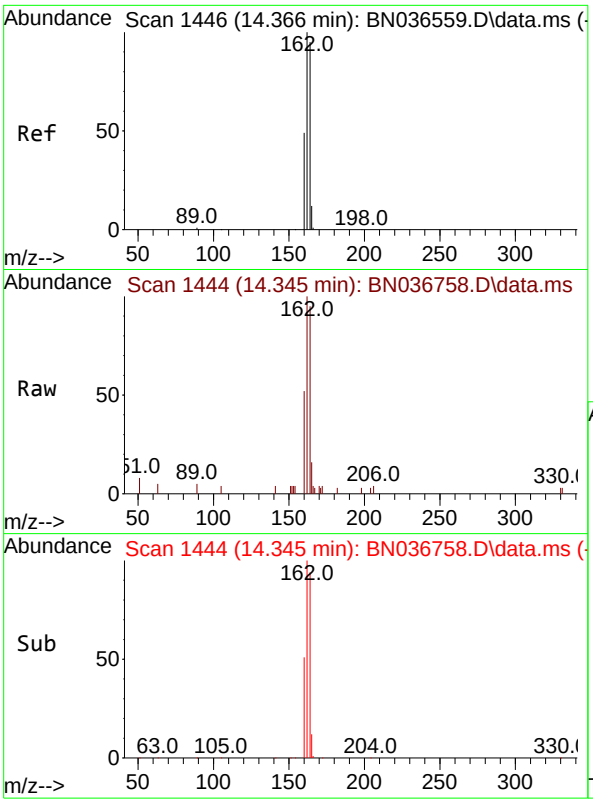


#11
2-Methylnaphthalene-d10
Concen: 0.334 ng
RT: 12.095 min Scan# 1139
Delta R.T. -0.015 min
Lab File: BN036758.D
Acq: 28 Mar 2025 04:22

Tgt Ion:152 Resp: 2360

Ion	Ratio	Lower	Upper
152	100		
151	20.8	17.0	25.6



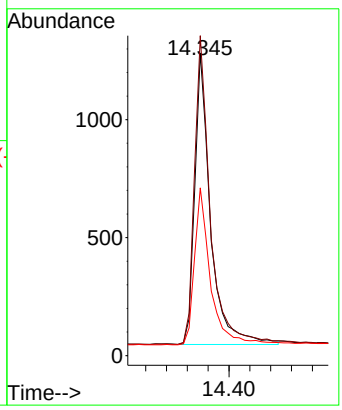


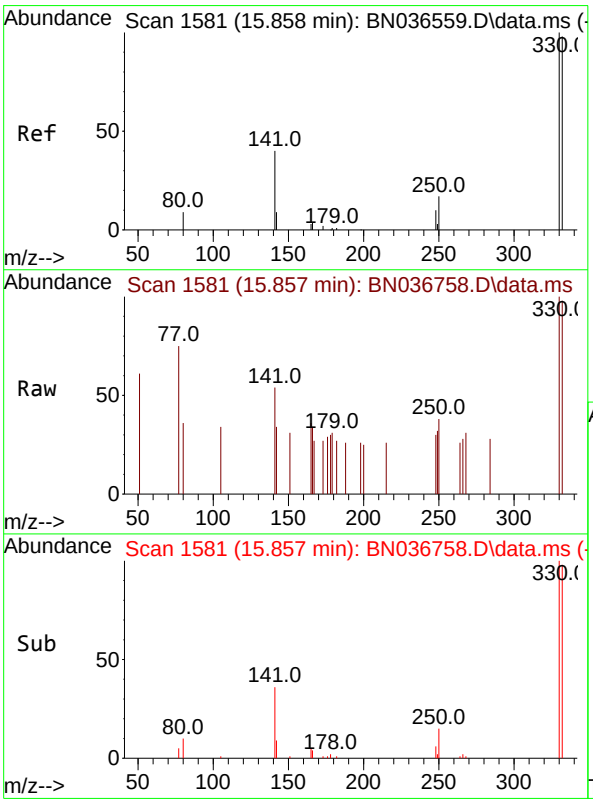
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 14
Delta R.T. -0.021 min
Lab File: BN036758.D
Acq: 28 Mar 2025 04:22

Instrument :
BNA_N
ClientSampleId :
PB167269BL

Tgt Ion:164 Resp: 2602

Ion	Ratio	Lower	Upper
164	100		
162	105.7	84.2	126.2
160	55.4	42.2	63.2

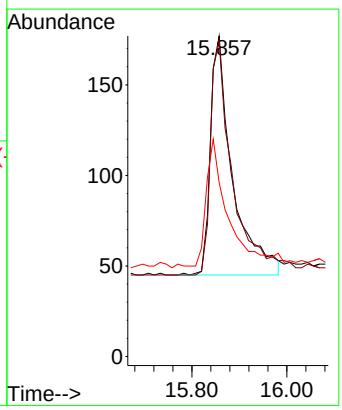


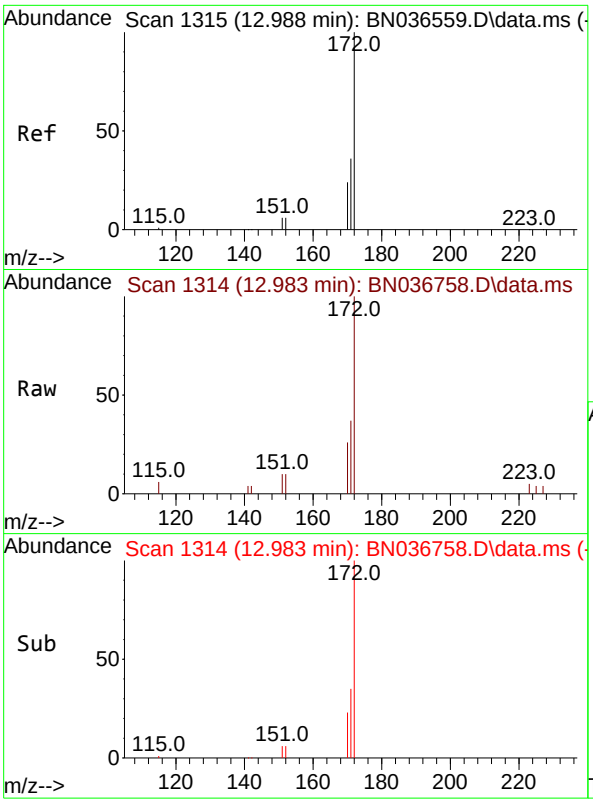


#14
2,4,6-Tribromophenol
Concen: 0.361 ng
RT: 15.857 min Scan# 1581
Delta R.T. -0.000 min
Lab File: BN036758.D
Acq: 28 Mar 2025 04:22

Tgt Ion:330 Resp: 426

Ion	Ratio	Lower	Upper
330	100		
332	96.9	75.2	112.8
141	50.7	43.4	65.2



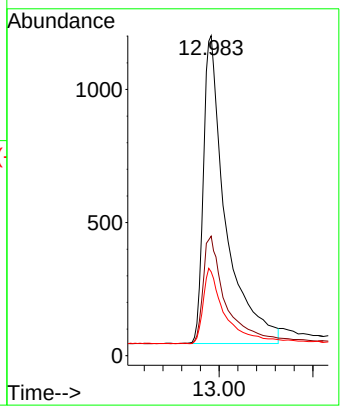


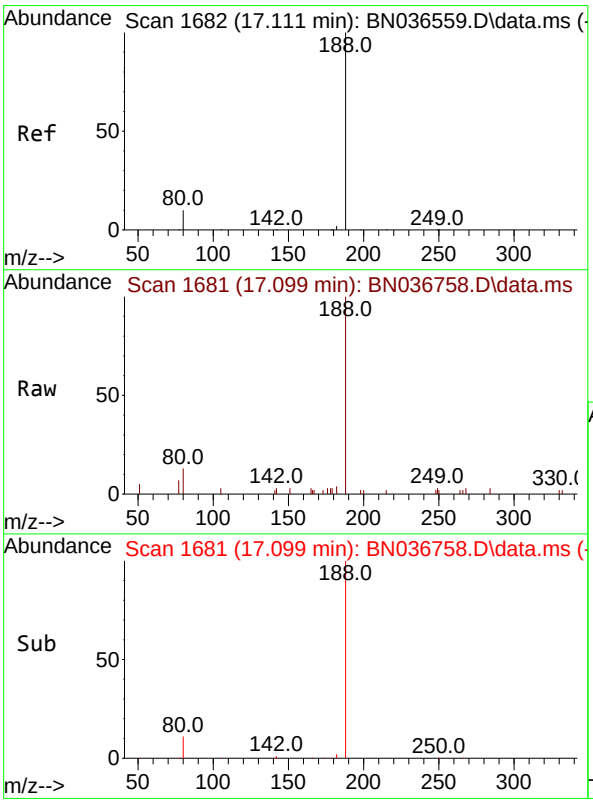
#15
2-Fluorobiphenyl
Concen: 0.292 ng
RT: 12.983 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN036758.D
Acq: 28 Mar 2025 04:22

Instrument :
BNA_N
ClientSampleId :
PB167269BL

Tgt Ion:172 Resp: 4427

Ion	Ratio	Lower	Upper
172	100		
171	37.4	29.5	44.3
170	26.2	20.2	30.4

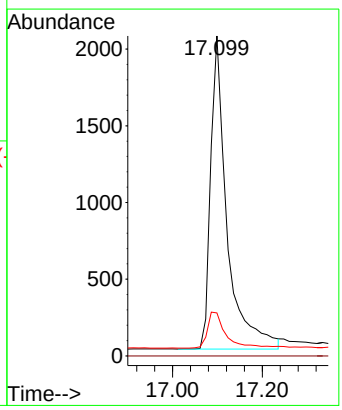


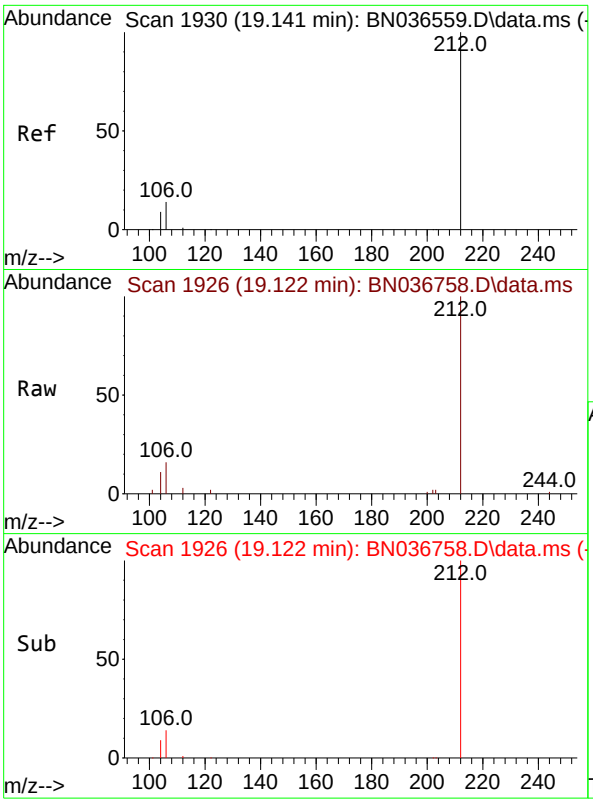


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.099 min Scan# 1681
Delta R.T. -0.012 min
Lab File: BN036758.D
Acq: 28 Mar 2025 04:22

Tgt Ion:188 Resp: 5169

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	13.4	8.8	13.2#



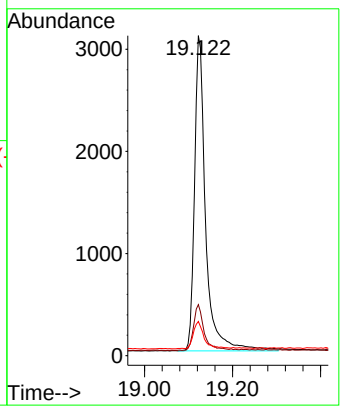


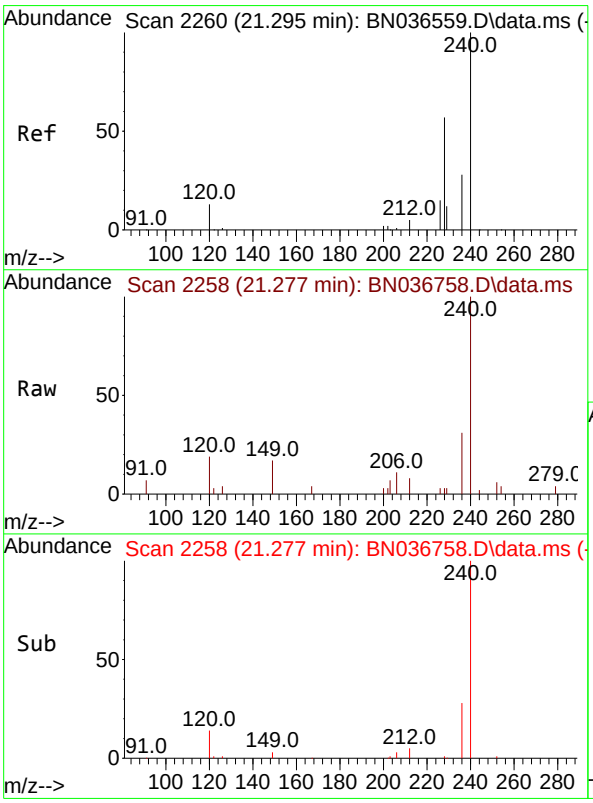
#27
Fluoranthene-d10
Concen: 0.409 ng
RT: 19.122 min Scan# 1
Delta R.T. -0.019 min
Lab File: BN036758.D
Acq: 28 Mar 2025 04:22

Instrument :
BNA_N
ClientSampleId :
PB167269BL

Tgt Ion:212 Resp: 5420

Ion	Ratio	Lower	Upper
212	100		
106	13.5	11.8	17.6
104	8.5	7.3	10.9

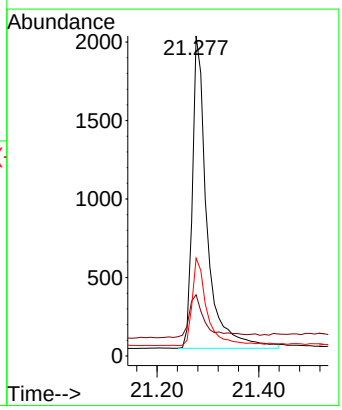


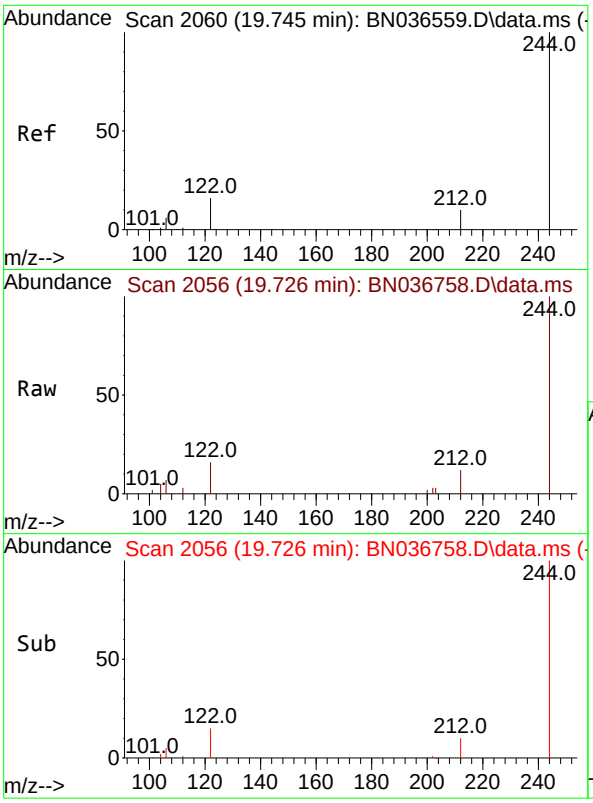


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.018 min
Lab File: BN036758.D
Acq: 28 Mar 2025 04:22

Tgt Ion:240 Resp: 3967

Ion	Ratio	Lower	Upper
240	100		
120	19.1	14.6	22.0
236	30.6	24.1	36.1



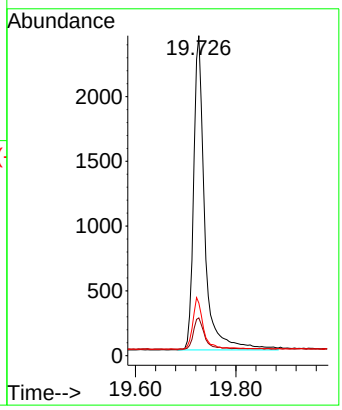


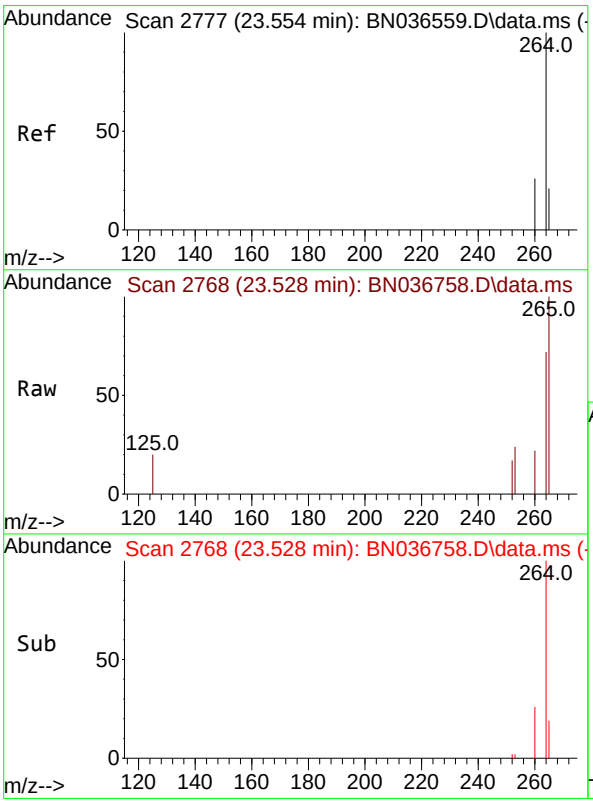
#31
Terphenyl-d14
Concen: 0.392 ng
RT: 19.726 min Scan# 2
Delta R.T. -0.019 min
Lab File: BN036758.D
Acq: 28 Mar 2025 04:22

Instrument :
BNA_N
ClientSampleId :
PB167269BL

Tgt Ion:244 Resp: 3725

Ion	Ratio	Lower	Upper
244	100		
212	11.8	9.6	14.4
122	16.4	13.9	20.9

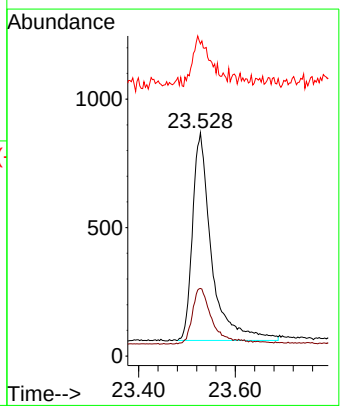




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.528 min Scan# 2768
Delta R.T. -0.026 min
Lab File: BN036758.D
Acq: 28 Mar 2025 04:22

Tgt Ion:264 Resp: 2206

Ion	Ratio	Lower	Upper
264	100		
260	30.3	22.6	33.8
265	139.8	88.1	132.1#



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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage - RW5B CTO WE13 112G08005	Date Received:	
Client Sample ID:	PB167269BS	SDG No.:	Q1621
Lab Sample ID:	PB167269BS	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
BN036806.D	1	03/24/25 08:15	03/29/25 11:45	PB167269

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.38		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.40		30 - 150		101%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.45		30 - 150		112%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.42		55 - 111		105%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.46	*	53 - 106		115%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.49		58 - 132		122%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1850	7.696				
1146-65-2	Naphthalene-d8	4670	10.477				
15067-26-2	Acenaphthene-d10	2570	14.334				
1517-22-2	Phenanthrene-d10	5010	17.087				
1719-03-5	Chrysene-d12	3220	21.277				
1520-96-3	Perylene-d12	1390	23.516				

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
Data File : BN036806.D
Acq On : 29 Mar 2025 11:45
Operator : RC/JU
Sample : PB167269BS
Misc :
ALS Vial : 37 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB167269BS

Quant Time: Mar 31 02:00:49 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

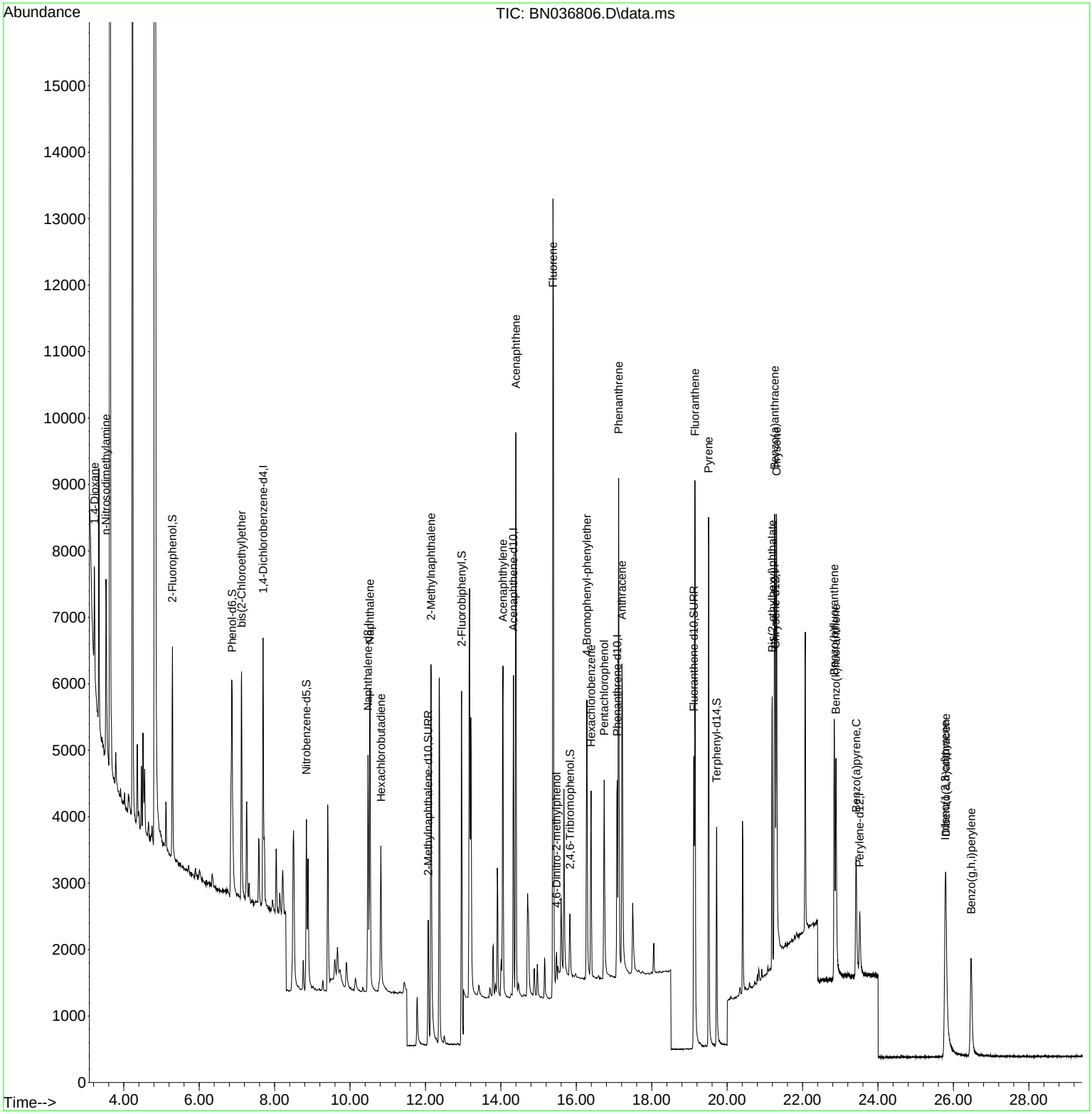
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.696	152	1846	0.400	ng		-0.03
7) Naphthalene-d8	10.477	136	4665	0.400	ng		-0.03
13) Acenaphthene-d10	14.334	164	2569	0.400	ng		-0.03
19) Phenanthrene-d10	17.087	188	5013	0.400	ng		-0.02
29) Chrysene-d12	21.277	240	3219	0.400	ng		#-0.02
35) Perylene-d12	23.516	264	1389	0.400	ng		#-0.04
System Monitoring Compounds							
4) 2-Fluorophenol	5.291	112	2250	0.523	ng		-0.02
5) Phenol-d6	6.872	99	2724	0.513	ng		-0.03
8) Nitrobenzene-d5	8.843	82	2129	0.420	ng		-0.03
11) 2-Methylnaphthalene-d10	12.075	152	2800	0.404	ng		-0.04
14) 2,4,6-Tribromophenol	15.833	330	579	0.497	ng		-0.02
15) 2-Fluorobiphenyl	12.958	172	6897	0.461	ng		-0.03
27) Fluoranthene-d10	19.118	212	5761	0.448	ng		-0.02
31) Terphenyl-d14	19.722	244	3774	0.489	ng		-0.02
Target Compounds							Qvalue
2) 1,4-Dioxane	3.225	88	783	0.382	ng	#	17
3) n-Nitrosodimethylamine	3.528	42	2291	0.553	ng	#	90
6) bis(2-Chloroethyl)ether	7.125	93	2493	0.454	ng		96
9) Naphthalene	10.530	128	6375	0.465	ng		99
10) Hexachlorobutadiene	10.819	225	1506	0.466	ng	#	99
12) 2-Methylnaphthalene	12.146	142	4161	0.477	ng		98
16) Acenaphthylene	14.056	152	5803	0.479	ng		100
17) Acenaphthene	14.398	154	3970	0.500	ng		100
18) Fluorene	15.382	166	5559	0.518	ng		97
20) 4,6-Dinitro-2-methylph...	15.478	198	574	0.592	ng	#	65
21) 4-Bromophenyl-phenylether	16.280	248	1618	0.515	ng		93
22) Hexachlorobenzene	16.391	284	1869	0.493	ng		95
24) Pentachlorophenol	16.739	266	1681	0.972	ng		99
25) Phenanthrene	17.124	178	7972	0.530	ng		99
26) Anthracene	17.211	178	7103	0.523	ng		99
28) Fluoranthene	19.146	202	8378	0.496	ng		98
30) Pyrene	19.508	202	7829	0.497	ng		100
32) Benzo(a)anthracene	21.259	228	5730	0.512	ng		99
33) Chrysene	21.313	228	7035	0.575	ng		100
34) Bis(2-ethylhexyl)phtha...	21.196	149	4222	0.530	ng	#	98
36) Indeno(1,2,3-cd)pyrene	25.782	276	4352	0.868	ng	#	82
37) Benzo(b)fluoranthene	22.841	252	5186	1.026	ng	#	92
38) Benzo(k)fluoranthene	22.885	252	5229	0.986	ng	#	94
39) Benzo(a)pyrene	23.420	252	3277	0.770	ng		95
40) Dibenzo(a,h)anthracene	25.800	278	3999	1.025	ng		94
41) Benzo(g,h,i)perylene	26.472	276	3464	0.776	ng		97

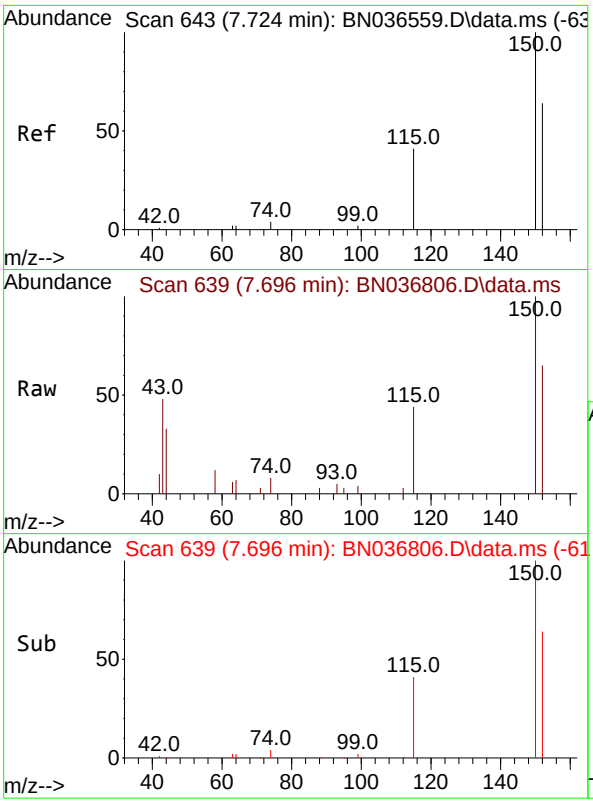
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
Data File : BN036806.D
Acq On : 29 Mar 2025 11:45
Operator : RC/JU
Sample : PB167269BS
Misc :
ALS Vial : 37 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB167269BS

Quant Time: Mar 31 02:00:49 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



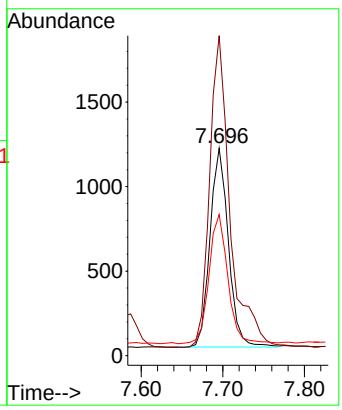


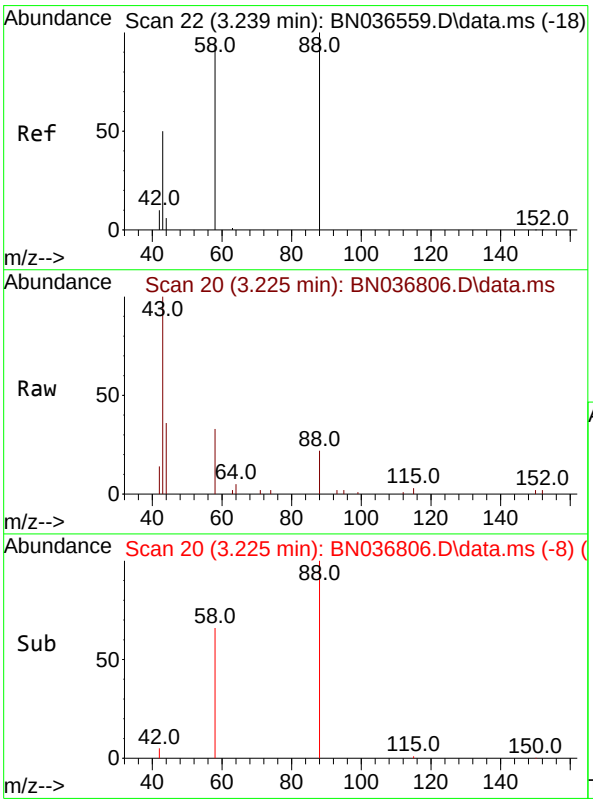
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.696 min Scan# 6
Delta R.T. -0.028 min
Lab File: BN036806.D
Acq: 29 Mar 2025 11:45

Instrument :
BNA_N
ClientSampleId :
PB167269BS

Tgt Ion:152 Resp: 1846

Ion	Ratio	Lower	Upper
152	100		
150	154.3	123.7	185.5
115	68.1	54.3	81.5

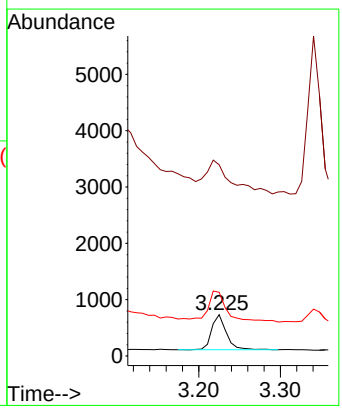


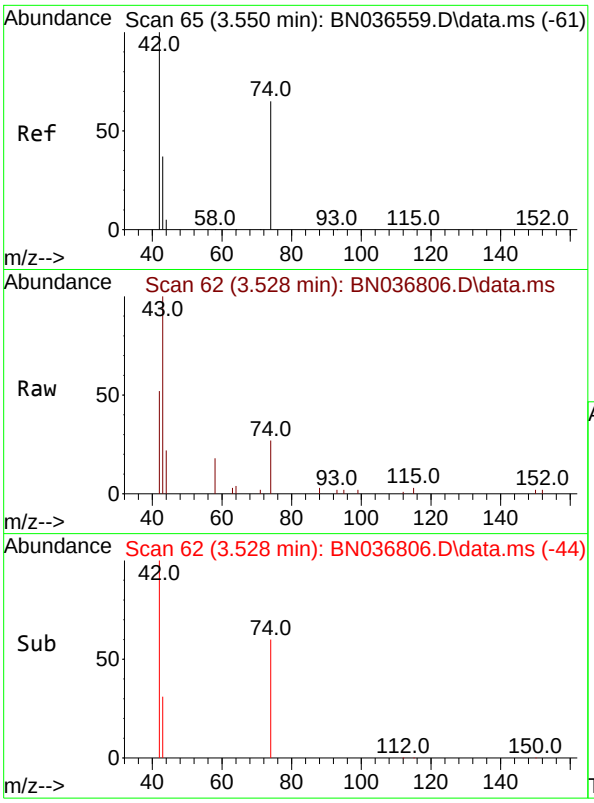


#2
1,4-Dioxane
Concen: 0.382 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036806.D
Acq: 29 Mar 2025 11:45

Tgt Ion: 88 Resp: 783

Ion	Ratio	Lower	Upper
88	100		
43	163.5	37.8	56.8#
58	113.8	67.4	101.2#



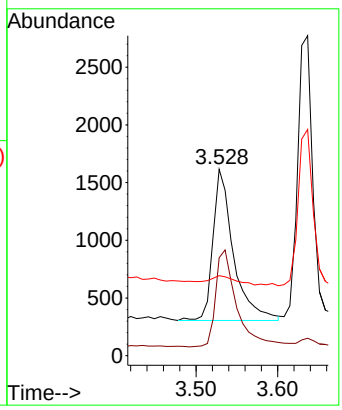


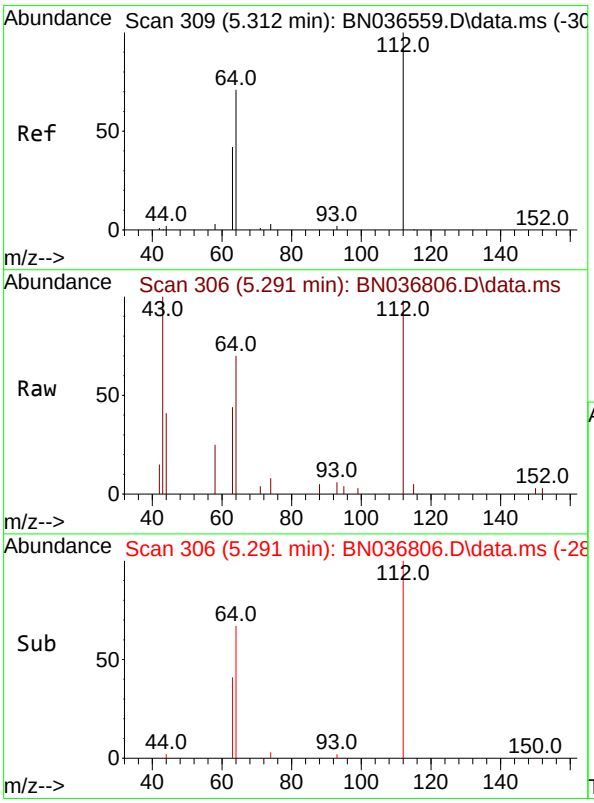
#3
n-Nitrosodimethylamine
Concen: 0.553 ng
RT: 3.528 min Scan# 6
Delta R.T. -0.022 min
Lab File: BN036806.D
Acq: 29 Mar 2025 11:45

Instrument :
BNA_N
ClientSampleId :
PB167269BS

Tgt Ion: 42 Resp: 2291

Ion	Ratio	Lower	Upper
42	100		
74	66.4	60.6	90.8
44	9.8	6.3	9.5#

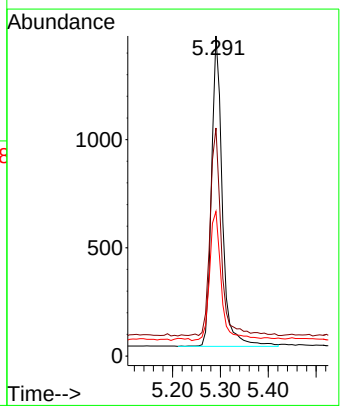


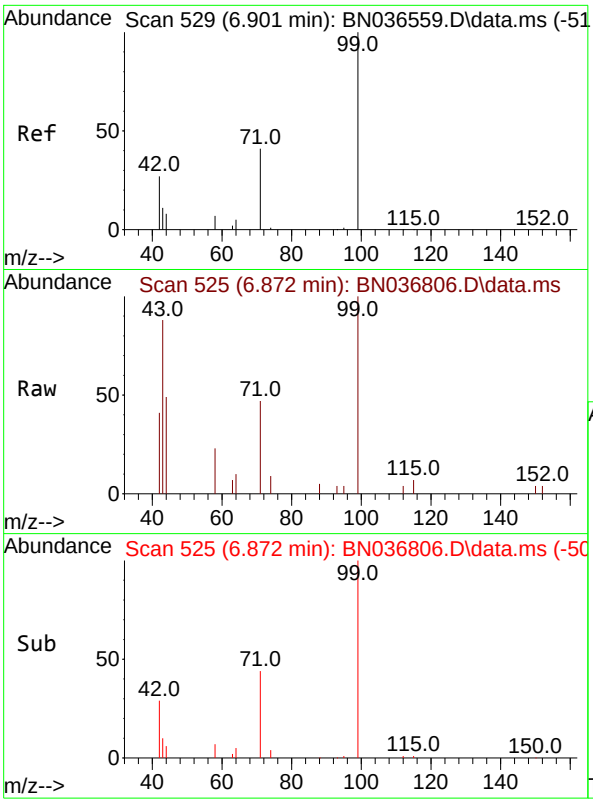


#4
2-Fluorophenol
Concen: 0.523 ng
RT: 5.291 min Scan# 306
Delta R.T. -0.021 min
Lab File: BN036806.D
Acq: 29 Mar 2025 11:45

Tgt Ion:112 Resp: 2250

Ion	Ratio	Lower	Upper
112	100		
64	69.4	53.1	79.7
63	45.2	31.8	47.8



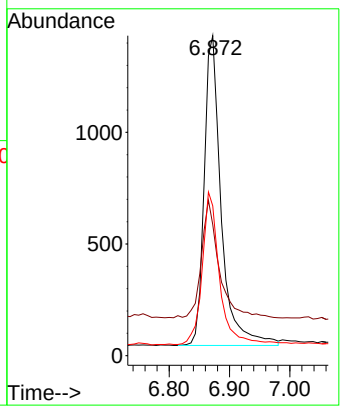


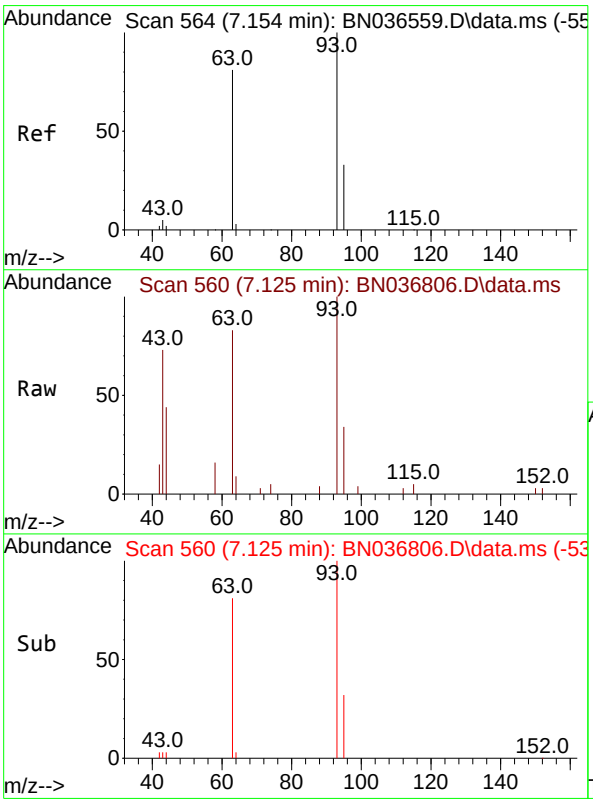
#5
Phenol-d6
Concen: 0.513 ng
RT: 6.872 min Scan# 5
Delta R.T. -0.029 min
Lab File: BN036806.D
Acq: 29 Mar 2025 11:45

Instrument :
BNA_N
ClientSampleId :
PB167269BS

Tgt Ion: 99 Resp: 2724

Ion	Ratio	Lower	Upper
99	100		
42	39.3	26.5	39.7
71	50.7	34.1	51.1

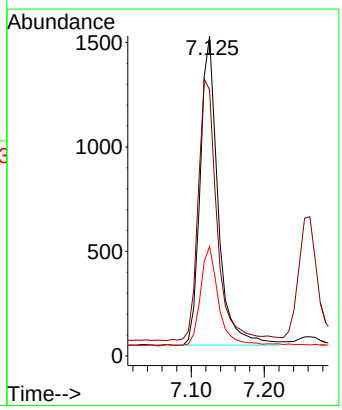


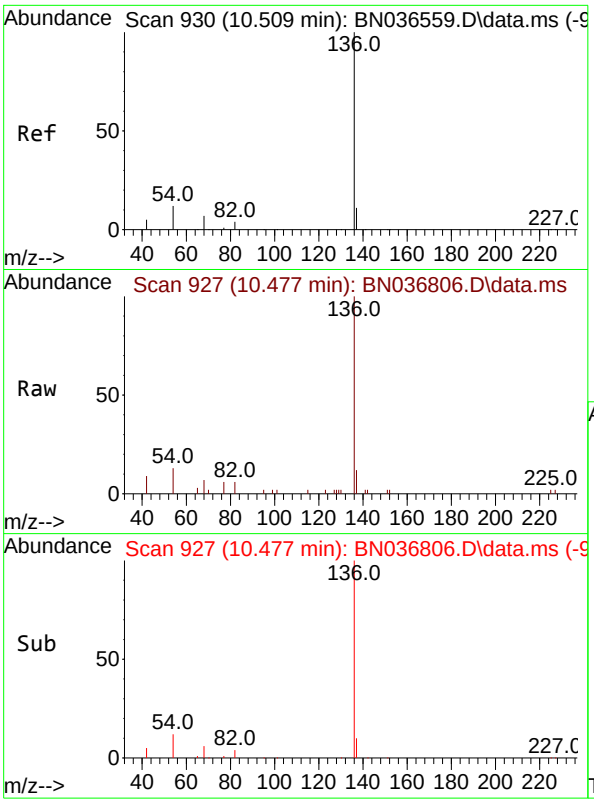


#6
bis(2-Chloroethyl)ether
Concen: 0.454 ng
RT: 7.125 min Scan# 560
Delta R.T. -0.029 min
Lab File: BN036806.D
Acq: 29 Mar 2025 11:45

Tgt Ion: 93 Resp: 2493

Ion	Ratio	Lower	Upper
93	100		
63	88.8	67.7	101.5
95	32.9	25.6	38.4



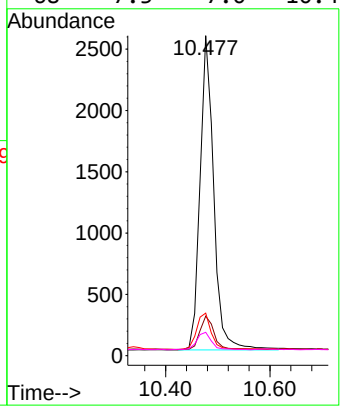


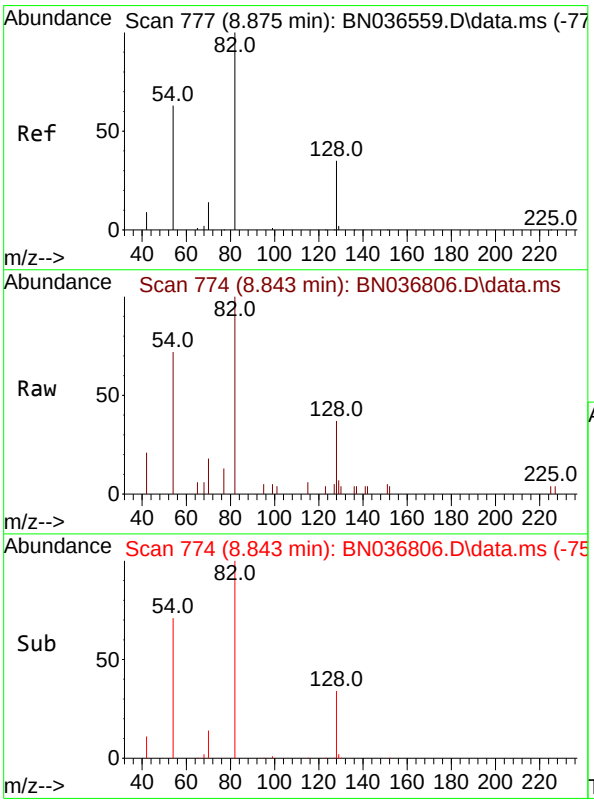
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.477 min Scan# 9
Delta R.T. -0.032 min
Lab File: BN036806.D
Acq: 29 Mar 2025 11:45

Instrument :
BNA_N
ClientSampleId :
PB167269BS

Tgt Ion:136 Resp: 4665

Ion	Ratio	Lower	Upper
136	100		
137	12.4	10.3	15.5
54	13.3	11.5	17.3
68	7.3	7.0	10.4

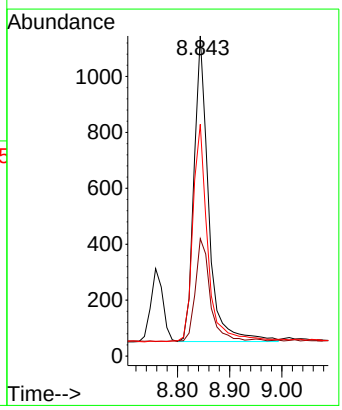


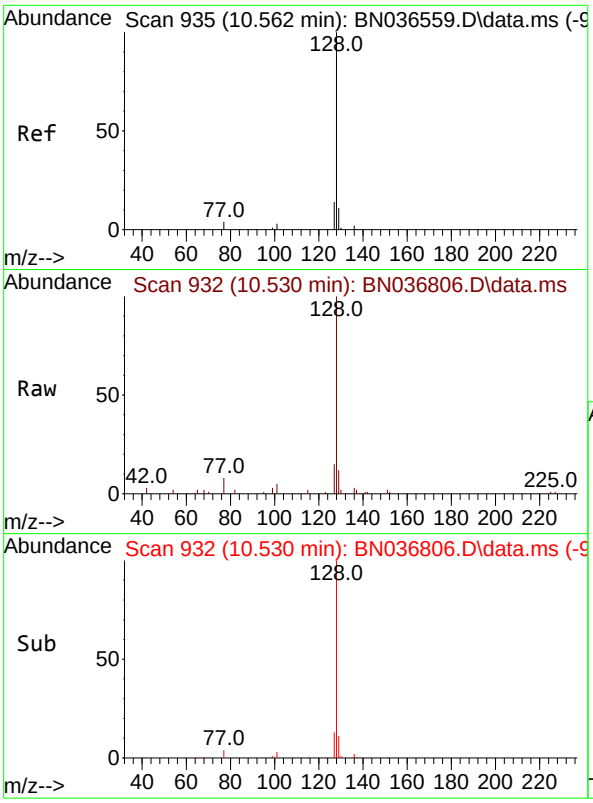


#8
Nitrobenzene-d5
Concen: 0.420 ng
RT: 8.843 min Scan# 774
Delta R.T. -0.032 min
Lab File: BN036806.D
Acq: 29 Mar 2025 11:45

Tgt Ion: 82 Resp: 2129

Ion	Ratio	Lower	Upper
82	100		
128	36.7	30.6	45.8
54	72.4	52.2	78.4



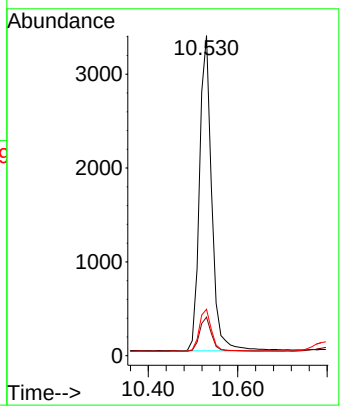


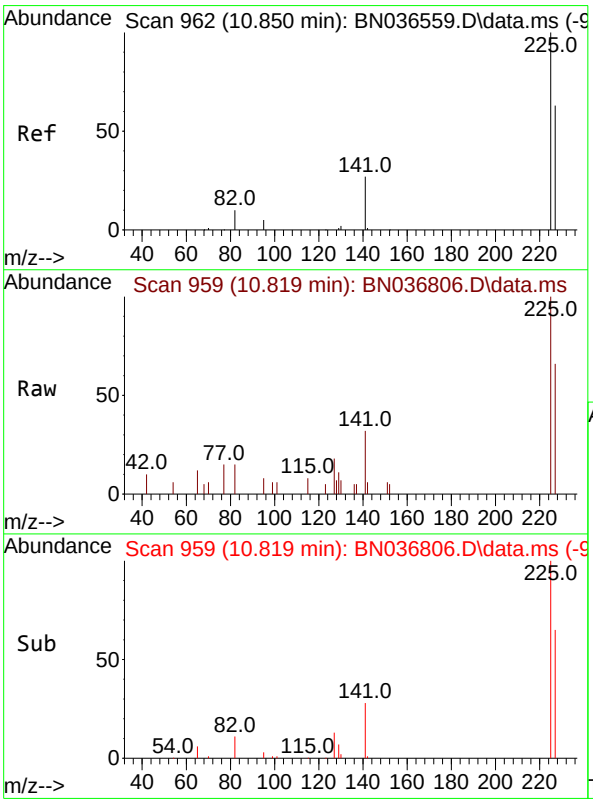
#9
Naphthalene
Concen: 0.465 ng
RT: 10.530 min Scan# 9
Delta R.T. -0.032 min
Lab File: BN036806.D
Acq: 29 Mar 2025 11:45

Instrument :
BNA_N
ClientSampleId :
PB167269BS

Tgt Ion:128 Resp: 6375

Ion	Ratio	Lower	Upper
128	100		
129	12.1	9.8	14.6
127	14.5	11.8	17.8

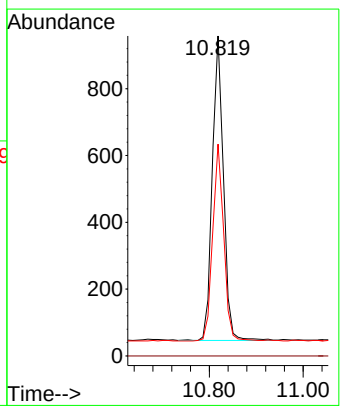


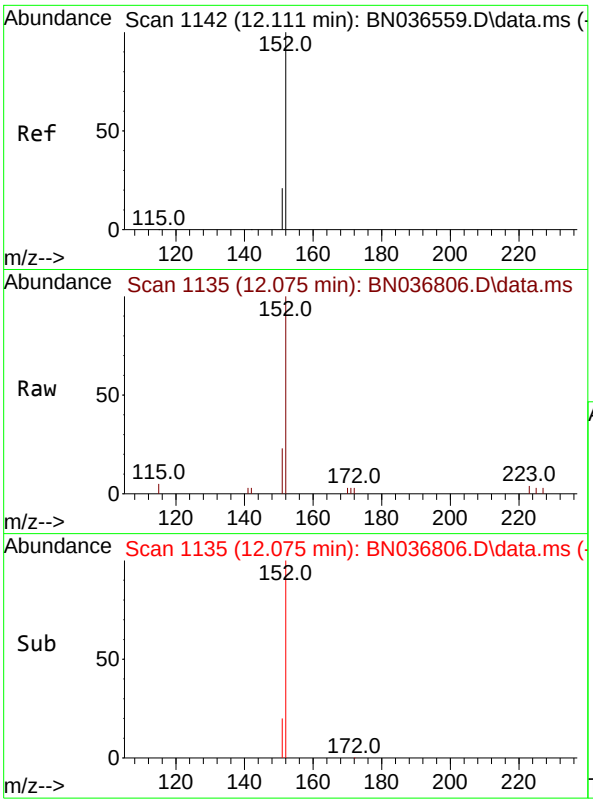


#10
Hexachlorobutadiene
Concen: 0.466 ng
RT: 10.819 min Scan# 959
Delta R.T. -0.032 min
Lab File: BN036806.D
Acq: 29 Mar 2025 11:45

Tgt Ion:225 Resp: 1506

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.8	51.8	77.8



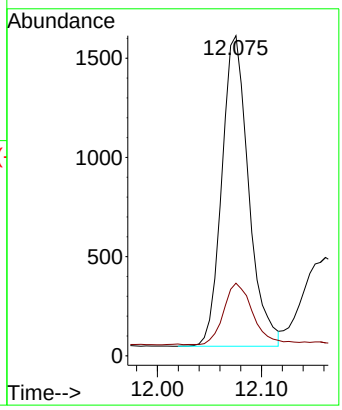


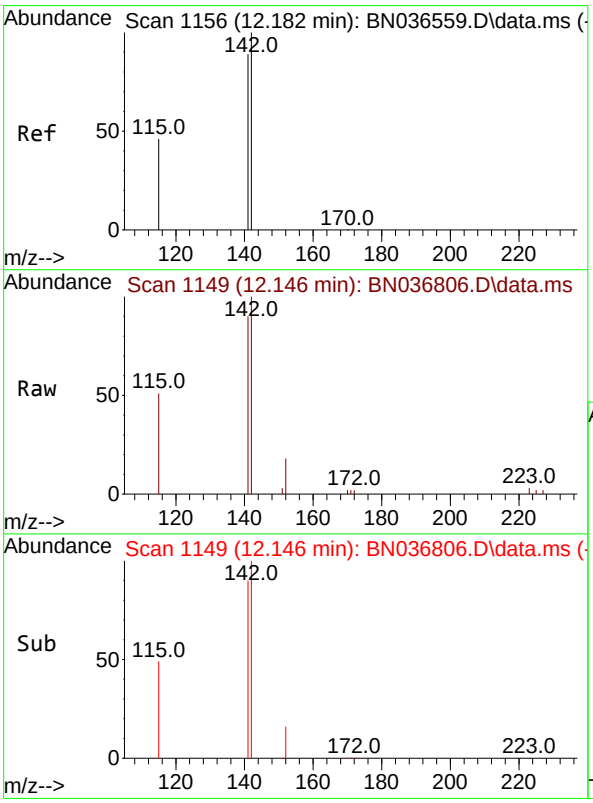
#11
2-Methylnaphthalene-d10
Concen: 0.404 ng
RT: 12.075 min Scan# 11
Delta R.T. -0.035 min
Lab File: BN036806.D
Acq: 29 Mar 2025 11:45

Instrument :
BNA_N
ClientSampleId :
PB167269BS

Tgt Ion:152 Resp: 2800

Ion	Ratio	Lower	Upper
152	100		
151	21.5	17.0	25.6

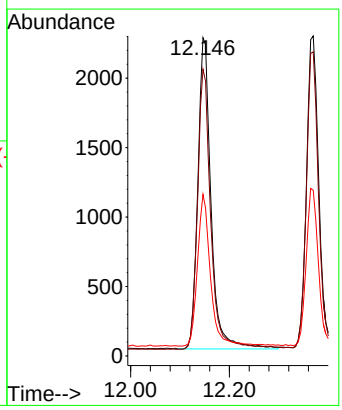


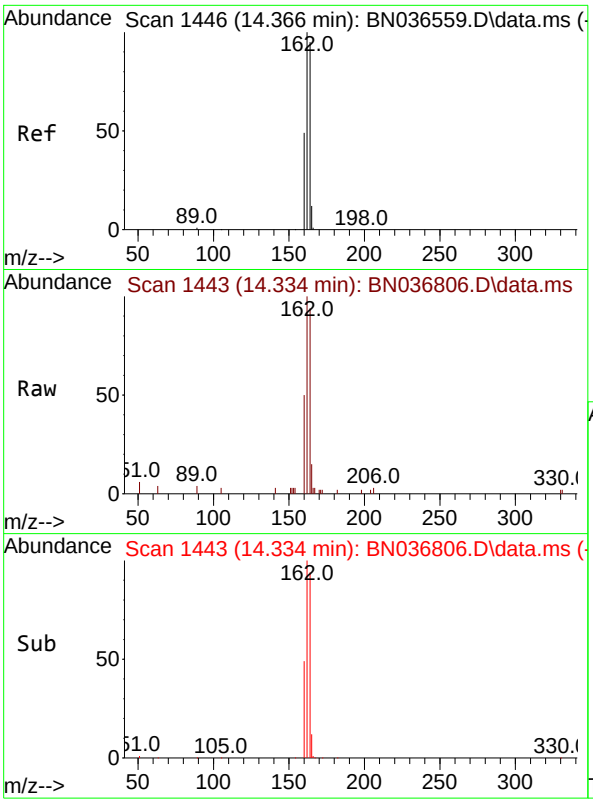


#12
2-Methylnaphthalene
Concen: 0.477 ng
RT: 12.146 min Scan# 1149
Delta R.T. -0.035 min
Lab File: BN036806.D
Acq: 29 Mar 2025 11:45

Tgt Ion:142 Resp: 4161

Ion	Ratio	Lower	Upper
142	100		
141	90.1	71.7	107.5
115	50.8	38.3	57.5



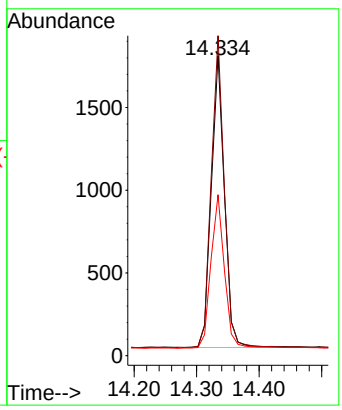


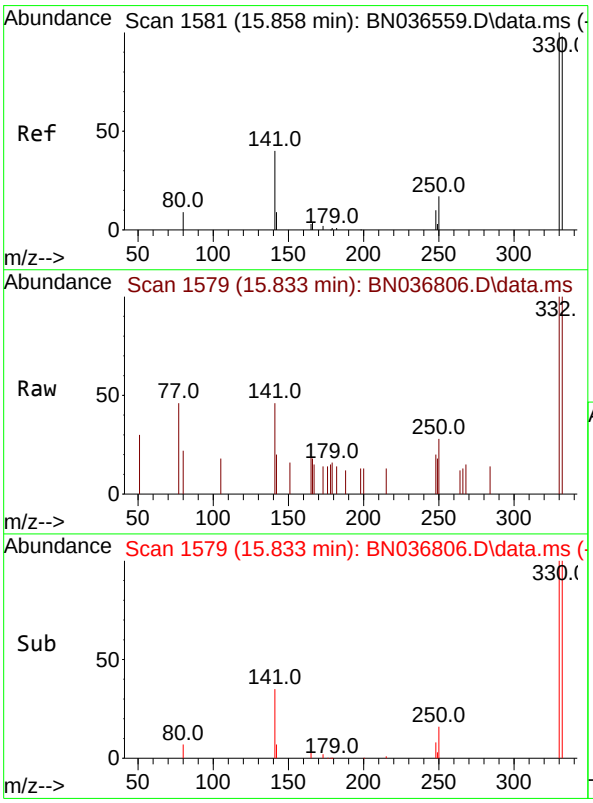
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036806.D
Acq: 29 Mar 2025 11:45

Instrument :
BNA_N
ClientSampleId :
PB167269BS

Tgt Ion:164 Resp: 2569

Ion	Ratio	Lower	Upper
164	100		
162	106.6	84.2	126.2
160	53.6	42.2	63.2

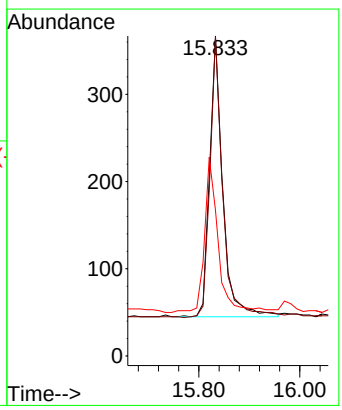


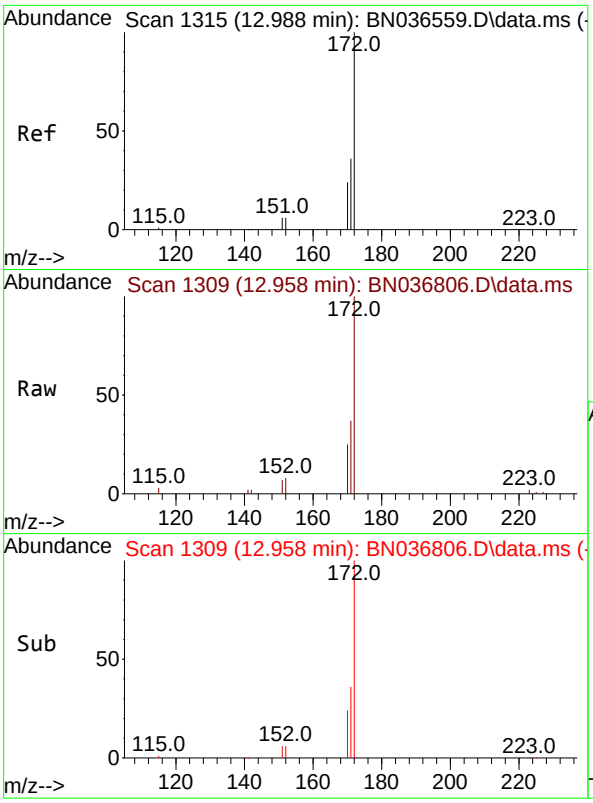


#14
2,4,6-Tribromophenol
Concen: 0.497 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.025 min
Lab File: BN036806.D
Acq: 29 Mar 2025 11:45

Tgt Ion:330 Resp: 579

Ion	Ratio	Lower	Upper
330	100		
332	99.1	75.2	112.8
141	57.2	43.4	65.2



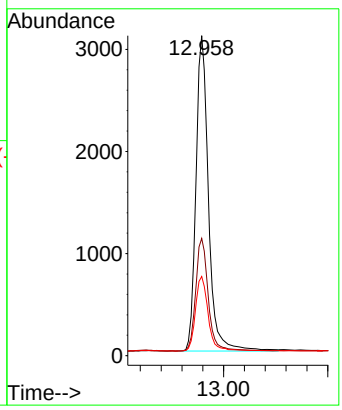


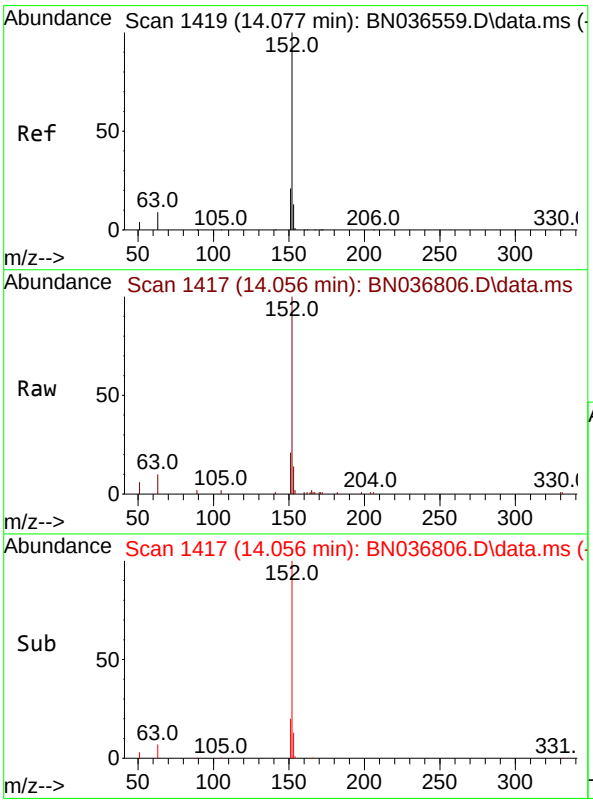
#15
2-Fluorobiphenyl
Concen: 0.461 ng
RT: 12.958 min Scan# 1
Delta R.T. -0.030 min
Lab File: BN036806.D
Acq: 29 Mar 2025 11:45

Instrument :
BNA_N
ClientSampleId :
PB167269BS

Tgt Ion:172 Resp: 6897

Ion	Ratio	Lower	Upper
172	100		
171	36.7	29.5	44.3
170	24.7	20.2	30.4

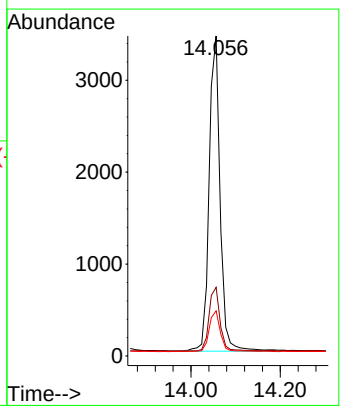


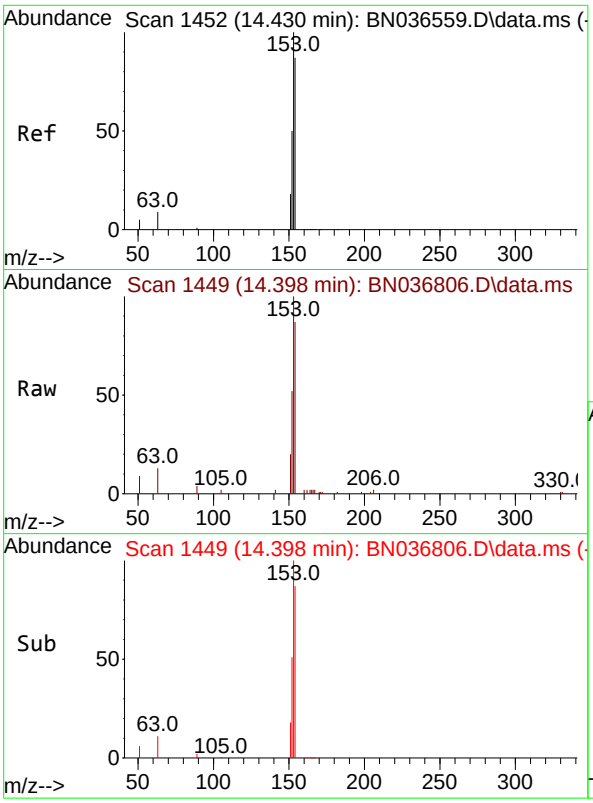


#16
Acenaphthylene
Concen: 0.479 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.021 min
Lab File: BN036806.D
Acq: 29 Mar 2025 11:45

Tgt Ion:152 Resp: 5803

Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.2	24.4
153	13.4	10.6	15.8



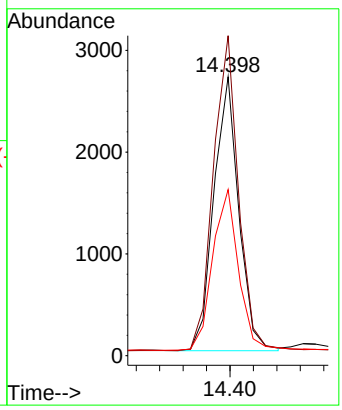


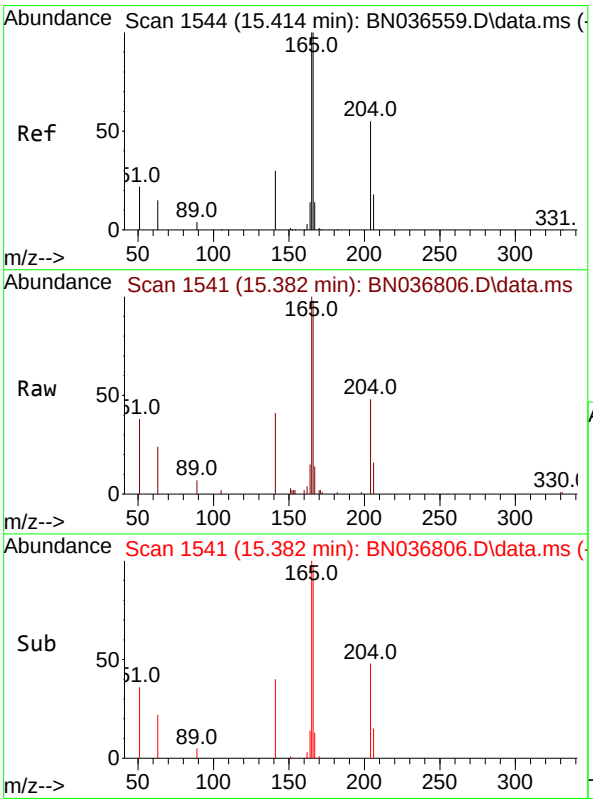
#17
Acenaphthene
Concen: 0.500 ng
RT: 14.398 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036806.D
Acq: 29 Mar 2025 11:45

Instrument :
BNA_N
ClientSampleId :
PB167269BS

Tgt Ion:154 Resp: 3970

Ion	Ratio	Lower	Upper
154	100		
153	117.1	94.1	141.1
152	61.8	49.8	74.6

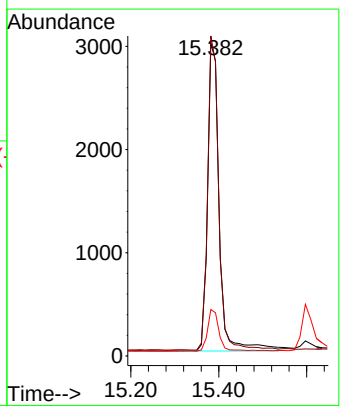


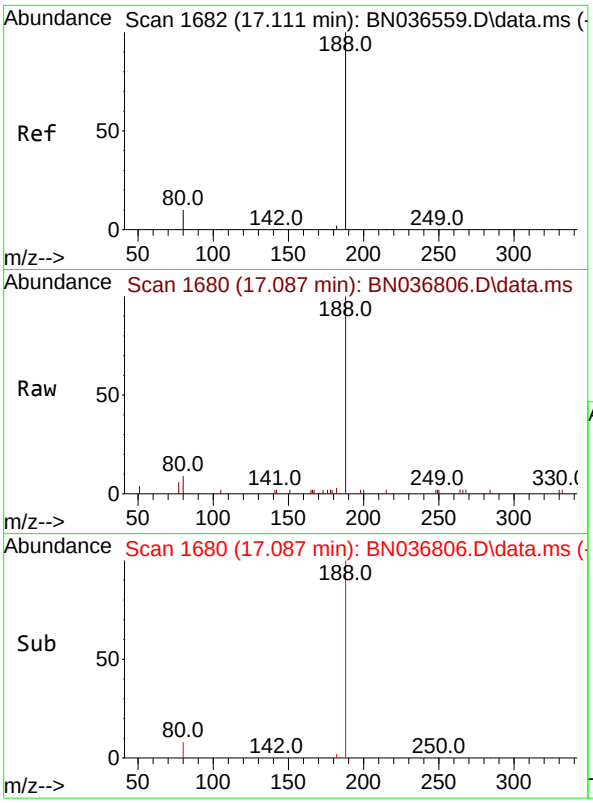


#18
Fluorene
Concen: 0.518 ng
RT: 15.382 min Scan# 1541
Delta R.T. -0.032 min
Lab File: BN036806.D
Acq: 29 Mar 2025 11:45

Tgt Ion:166 Resp: 5559

Ion	Ratio	Lower	Upper
166	100		
165	96.7	79.8	119.8
167	12.6	10.6	15.8



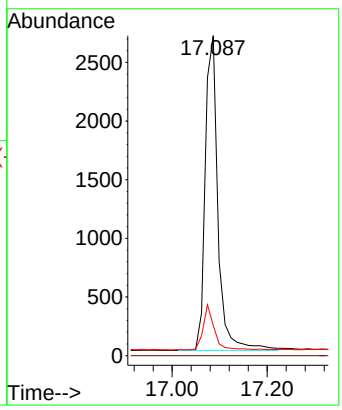


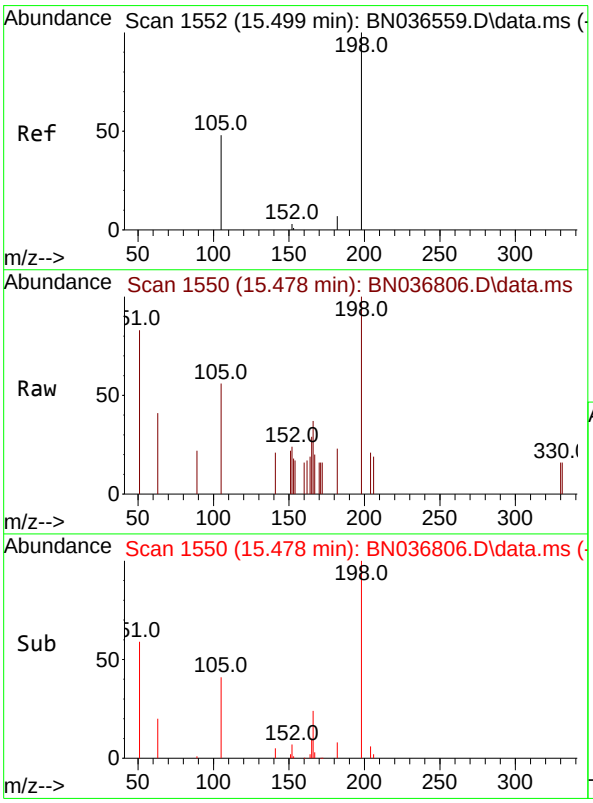
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.087 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036806.D
Acq: 29 Mar 2025 11:45

Instrument :
BNA_N
ClientSampleId :
PB167269BS

Tgt Ion:188 Resp: 5013

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.5	8.8	13.2

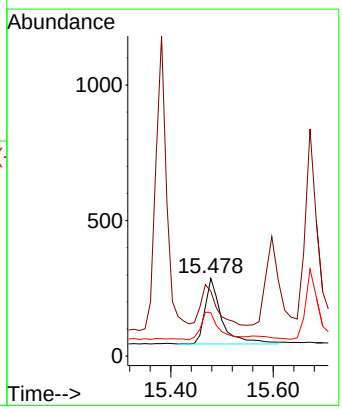


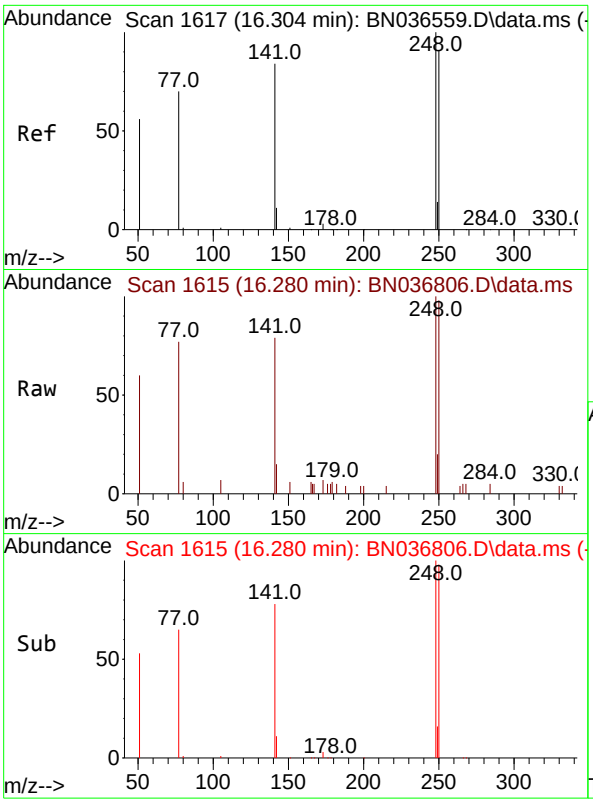


#20
4,6-Dinitro-2-methylphenol
Concen: 0.592 ng
RT: 15.478 min Scan# 1550
Delta R.T. -0.021 min
Lab File: BN036806.D
Acq: 29 Mar 2025 11:45

Tgt Ion:198 Resp: 574

Ion	Ratio	Lower	Upper
198	100		
51	83.3	107.9	161.9#
105	55.7	56.2	84.2#



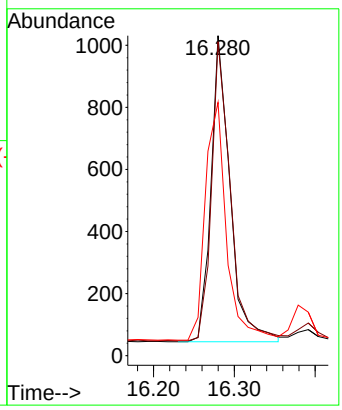


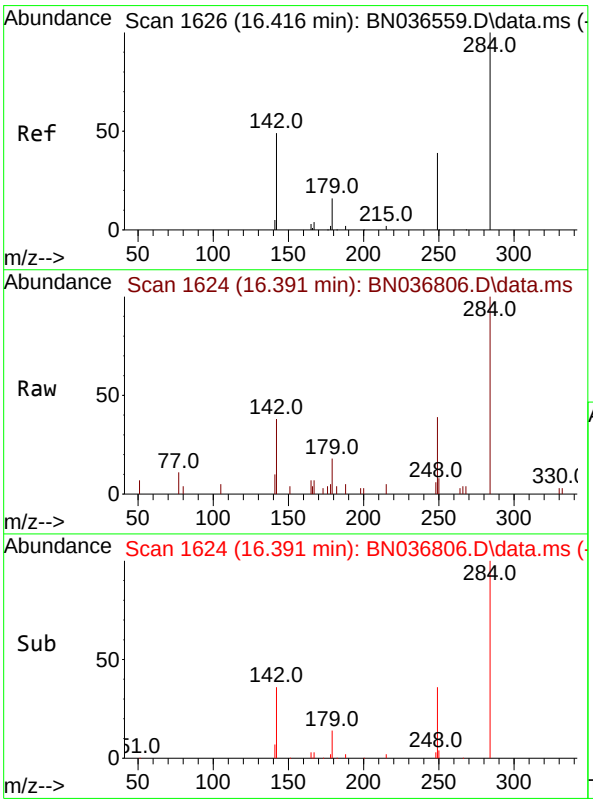
#21
4-Bromophenyl-phenylether
Concen: 0.515 ng
RT: 16.280 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036806.D
Acq: 29 Mar 2025 11:45

Instrument :
BNA_N
ClientSampleId :
PB167269BS

Tgt Ion:248 Resp: 1618

Ion	Ratio	Lower	Upper
248	100		
250	98.2	73.0	109.6
141	79.1	68.6	103.0

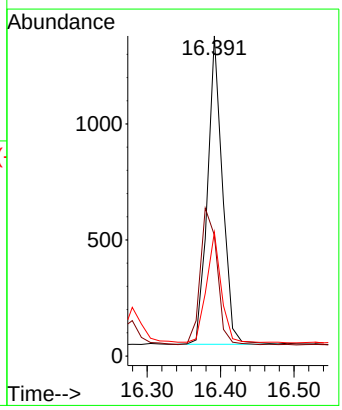


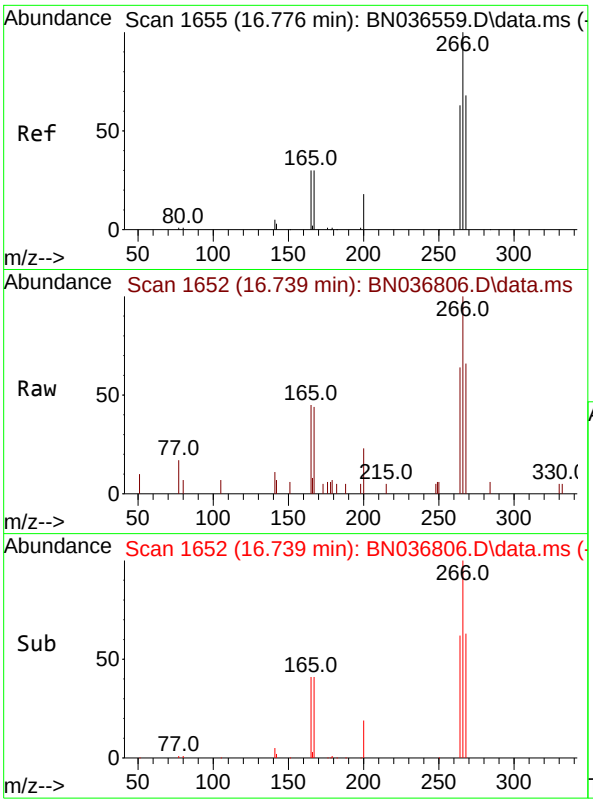


#22
Hexachlorobenzene
Concen: 0.493 ng
RT: 16.391 min Scan# 1624
Delta R.T. -0.025 min
Lab File: BN036806.D
Acq: 29 Mar 2025 11:45

Tgt Ion:284 Resp: 1869

Ion	Ratio	Lower	Upper
284	100		
142	50.5	37.0	55.4
249	36.4	28.1	42.1



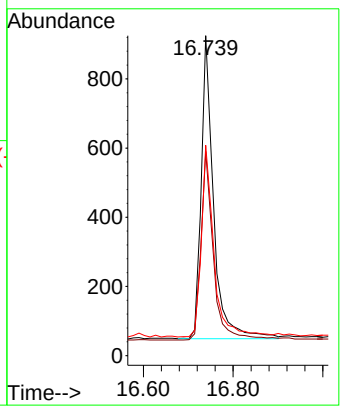


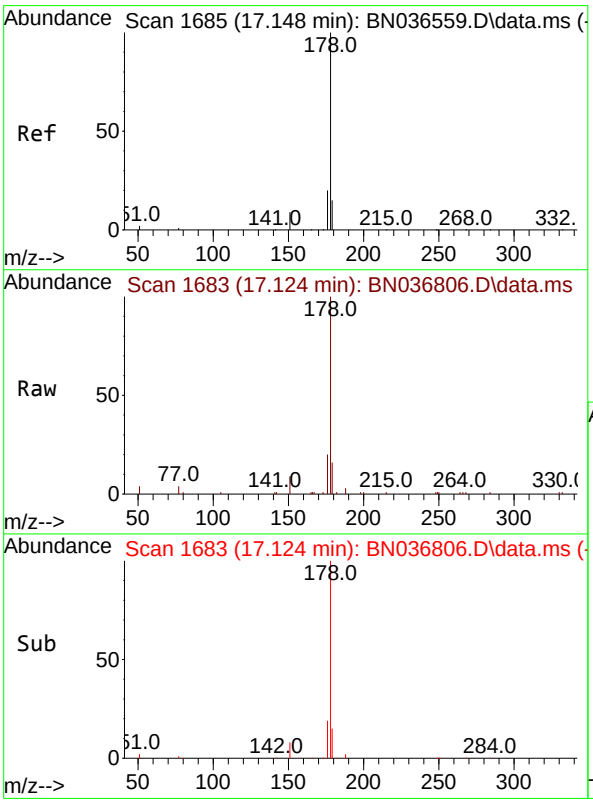
#24
Pentachlorophenol
Concen: 0.972 ng
RT: 16.739 min Scan# 1(
Delta R.T. -0.037 min
Lab File: BN036806.D
Acq: 29 Mar 2025 11:45

Instrument :
BNA_N
ClientSampleId :
PB167269BS

Tgt Ion:266 Resp: 1681

Ion	Ratio	Lower	Upper
266	100		
264	62.5	49.6	74.4
268	64.7	50.9	76.3

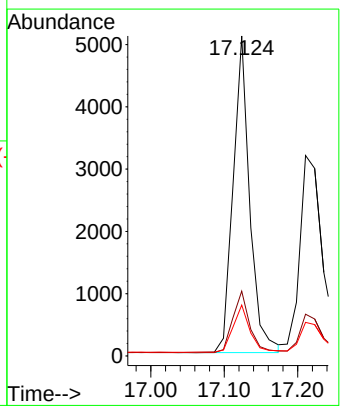


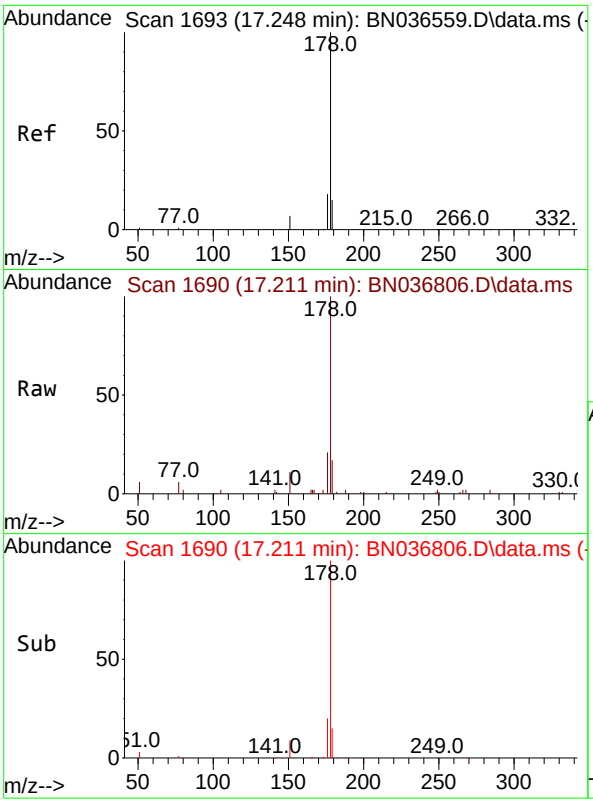


#25
Phenanthrene
Concen: 0.530 ng
RT: 17.124 min Scan# 1683
Delta R.T. -0.025 min
Lab File: BN036806.D
Acq: 29 Mar 2025 11:45

Tgt Ion:178 Resp: 7972

Ion	Ratio	Lower	Upper
178	100		
176	20.2	15.9	23.9
179	15.1	12.2	18.4



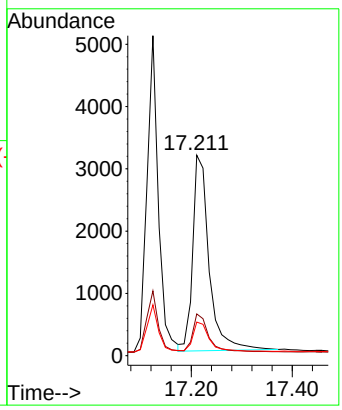


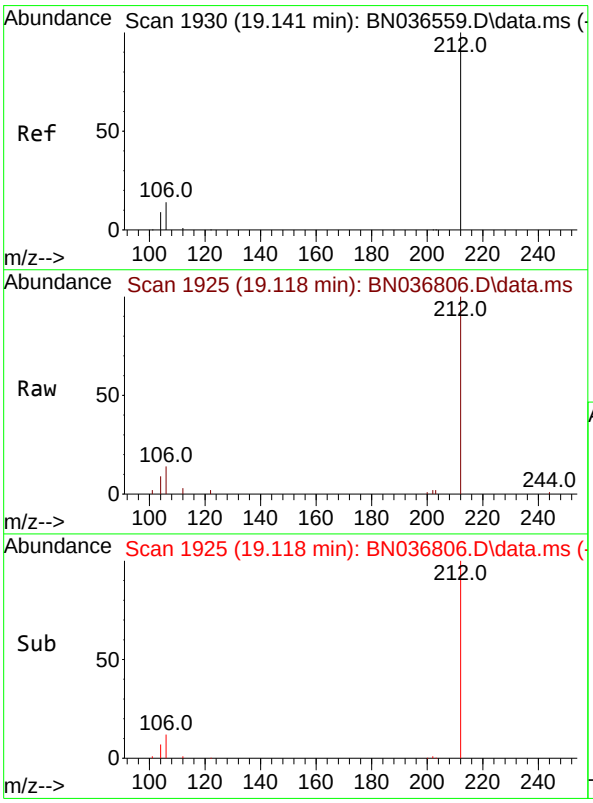
#26
Anthracene
Concen: 0.523 ng
RT: 17.211 min Scan# 1
Delta R.T. -0.037 min
Lab File: BN036806.D
Acq: 29 Mar 2025 11:45

Instrument :
BNA_N
ClientSampleId :
PB167269BS

Tgt Ion:178 Resp: 7103

Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.4	23.2
179	15.1	12.6	18.8

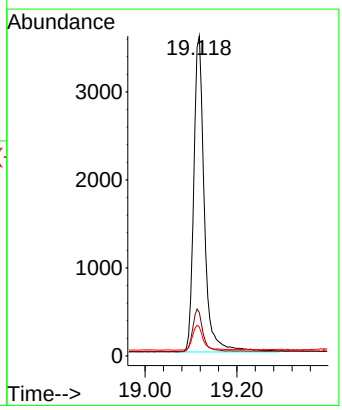


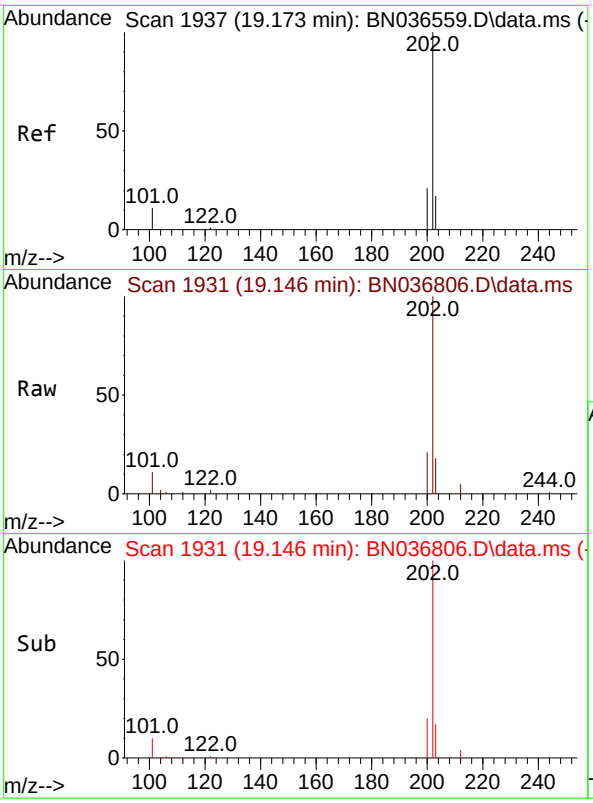


#27
Fluoranthene-d10
Concen: 0.448 ng
RT: 19.118 min Scan# 1925
Delta R.T. -0.023 min
Lab File: BN036806.D
Acq: 29 Mar 2025 11:45

Tgt Ion:212 Resp: 5761

Ion	Ratio	Lower	Upper
212	100		
106	12.8	11.8	17.6
104	8.0	7.3	10.9



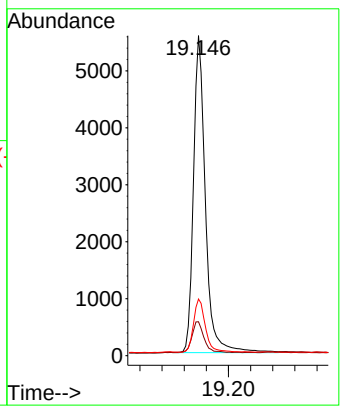


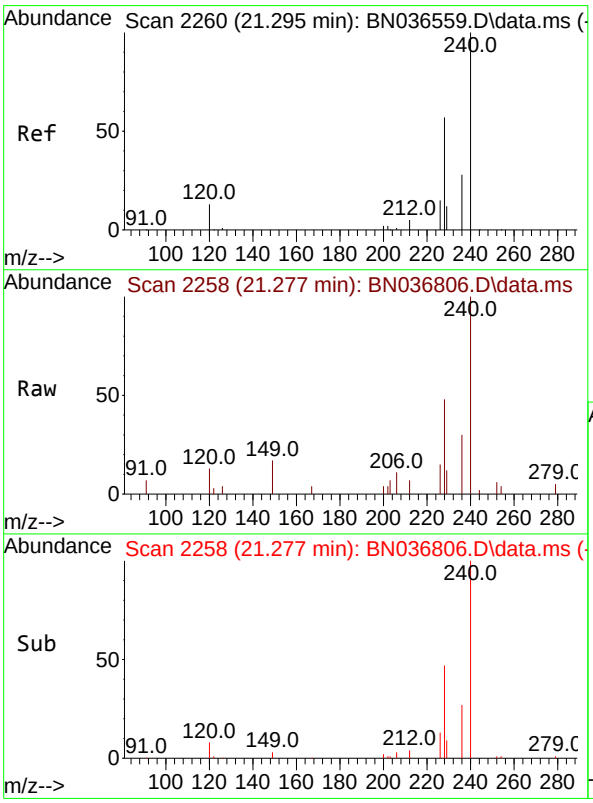
#28
Fluoranthene
Concen: 0.496 ng
RT: 19.146 min Scan# 1
Delta R.T. -0.028 min
Lab File: BN036806.D
Acq: 29 Mar 2025 11:45

Instrument :
BNA_N
ClientSampleId :
PB167269BS

Tgt Ion:202 Resp: 8378

Ion	Ratio	Lower	Upper
202	100		
101	9.7	9.4	14.0
203	16.7	13.5	20.3

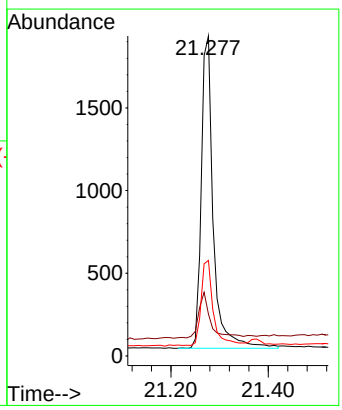


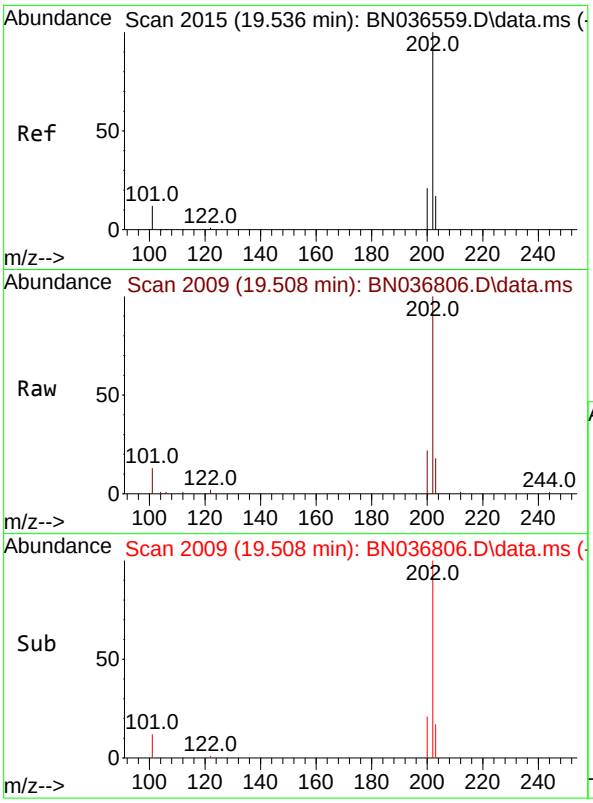


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.018 min
Lab File: BN036806.D
Acq: 29 Mar 2025 11:45

Tgt Ion:240 Resp: 3219

Ion	Ratio	Lower	Upper
240	100		
120	13.1	14.6	22.0#
236	29.9	24.1	36.1



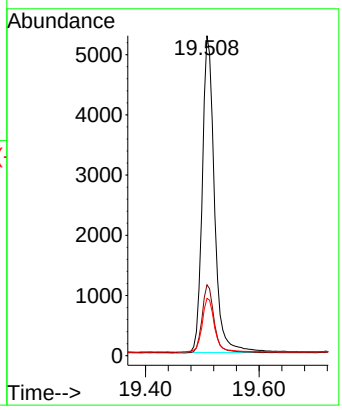


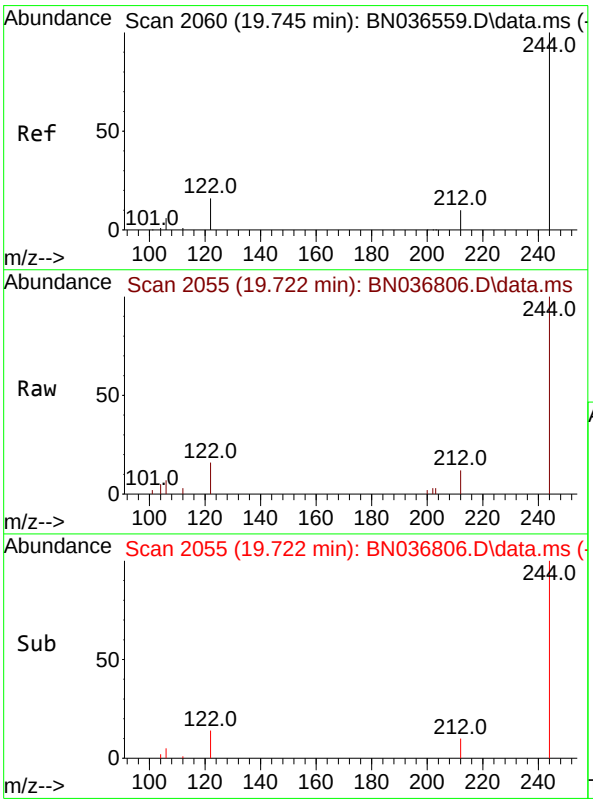
#30
Pyrene
Concen: 0.497 ng
RT: 19.508 min Scan# 2
Delta R.T. -0.028 min
Lab File: BN036806.D
Acq: 29 Mar 2025 11:45

Instrument :
BNA_N
ClientSampleId :
PB167269BS

Tgt Ion:202 Resp: 7829

Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.1	25.7
203	17.6	14.1	21.1

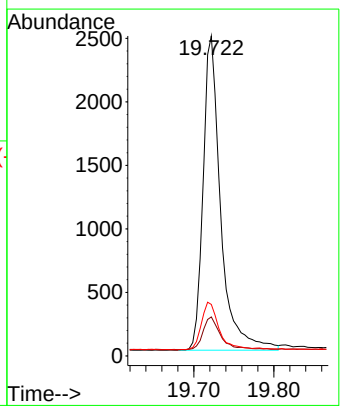


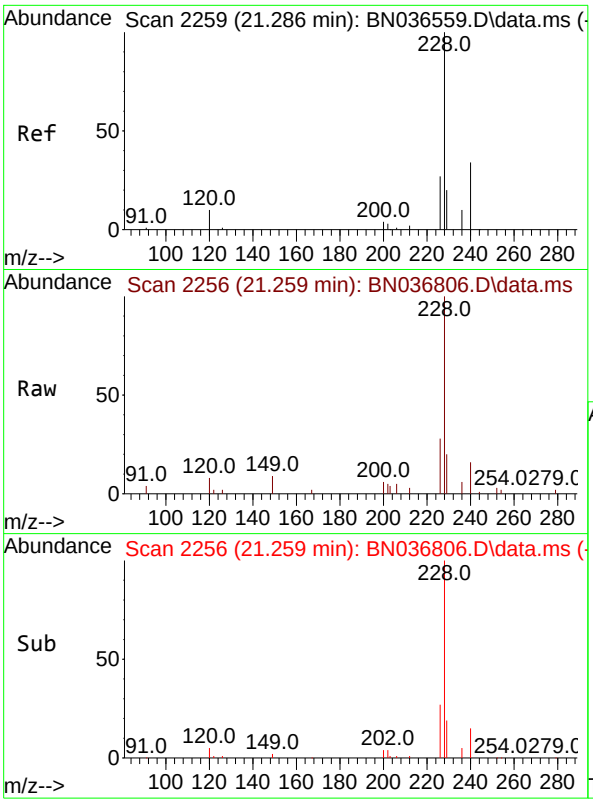


#31
Terphenyl-d14
Concen: 0.489 ng
RT: 19.722 min Scan# 2055
Delta R.T. -0.023 min
Lab File: BN036806.D
Acq: 29 Mar 2025 11:45

Tgt Ion:244 Resp: 3774

Ion	Ratio	Lower	Upper
244	100		
212	12.2	9.6	14.4
122	16.1	13.9	20.9



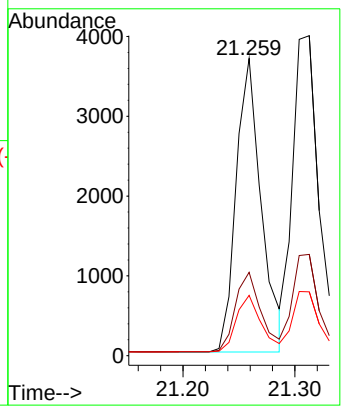


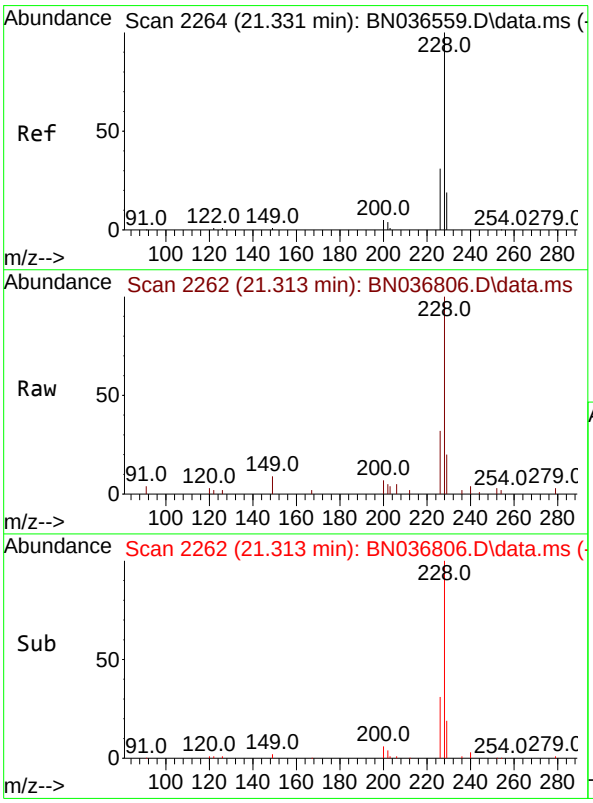
#32
Benzo(a)anthracene
Concen: 0.512 ng
RT: 21.259 min Scan# 2
Delta R.T. -0.027 min
Lab File: BN036806.D
Acq: 29 Mar 2025 11:45

Instrument :
BNA_N
ClientSampleId :
PB167269BS

Tgt Ion:228 Resp: 5730

Ion	Ratio	Lower	Upper
228	100		
226	28.1	22.5	33.7
229	20.3	16.6	25.0

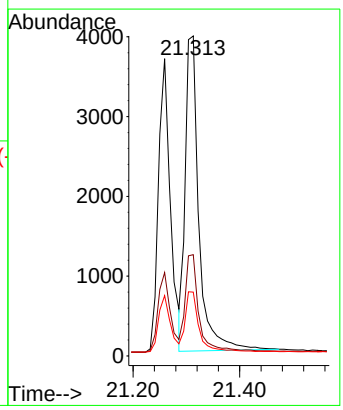


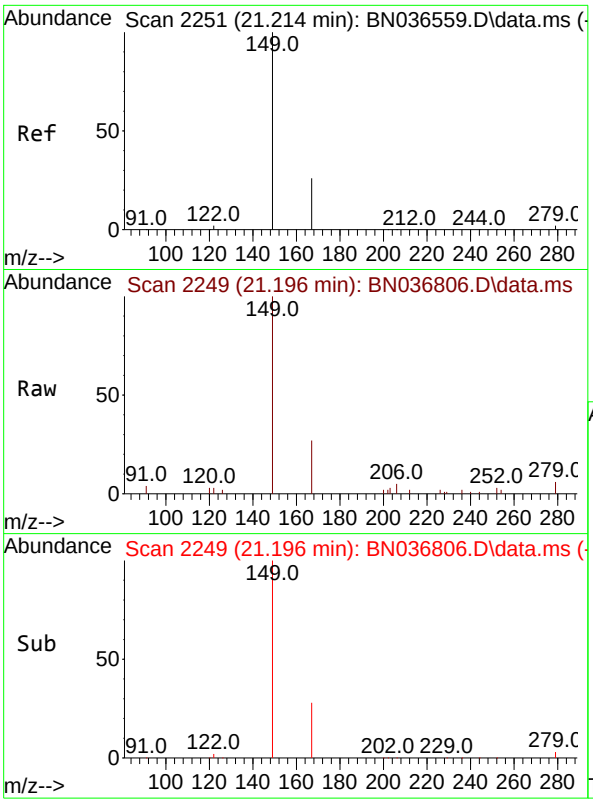


#33
Chrysene
Concen: 0.575 ng
RT: 21.313 min Scan# 2262
Delta R.T. -0.018 min
Lab File: BN036806.D
Acq: 29 Mar 2025 11:45

Tgt Ion:228 Resp: 7035

Ion	Ratio	Lower	Upper
228	100		
226	31.6	25.3	37.9
229	20.0	15.8	23.8



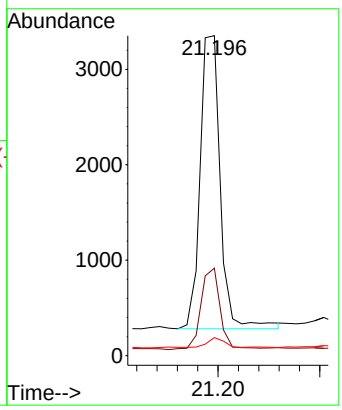


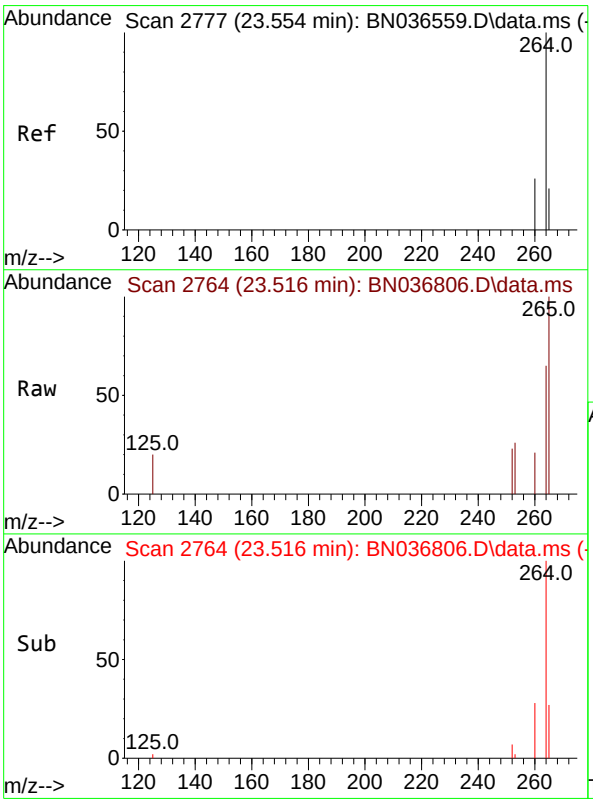
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.530 ng
RT: 21.196 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036806.D
Acq: 29 Mar 2025 11:45

Instrument :
BNA_N
ClientSampleId :
PB167269BS

Tgt Ion:149 Resp: 4222

Ion	Ratio	Lower	Upper
149	100		
167	26.5	20.7	31.1
279	2.7	3.6	5.4#

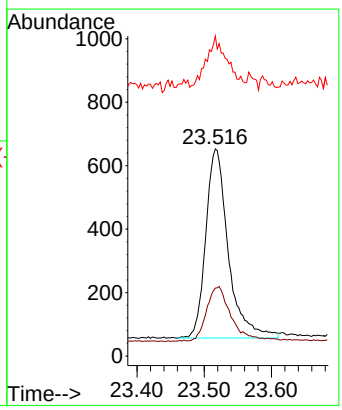


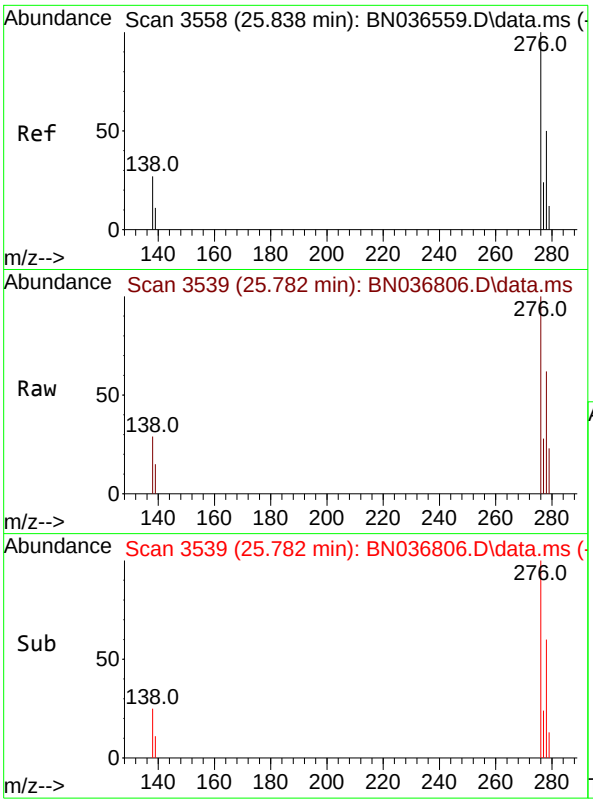


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.516 min Scan# 2764
Delta R.T. -0.038 min
Lab File: BN036806.D
Acq: 29 Mar 2025 11:45

Tgt Ion:264 Resp: 1389

Ion	Ratio	Lower	Upper
264	100		
260	32.8	22.6	33.8
265	154.5	88.1	132.1#



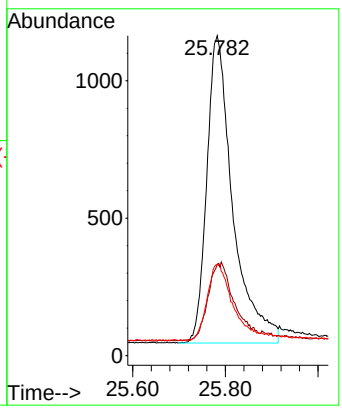


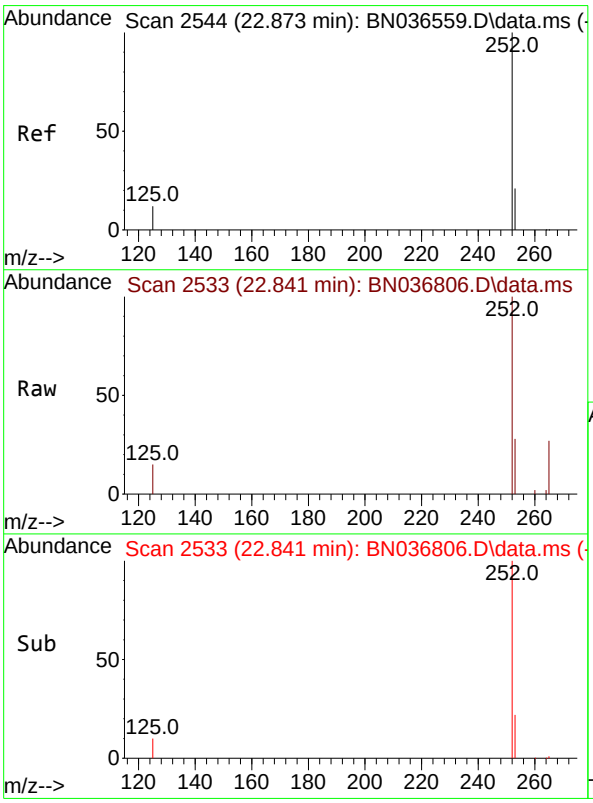
#36
Indeno(1,2,3-cd)pyrene
Concen: 0.868 ng
RT: 25.782 min Scan# 3
Delta R.T. -0.055 min
Lab File: BN036806.D
Acq: 29 Mar 2025 11:45

Instrument :
BNA_N
ClientSampleId :
PB167269BS

Tgt Ion:276 Resp: 4352

Ion	Ratio	Lower	Upper
276	100		
138	11.9	23.4	35.2#
277	24.8	20.0	30.0

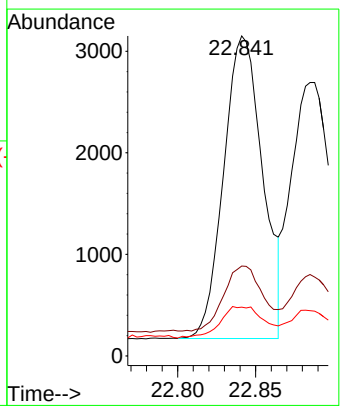


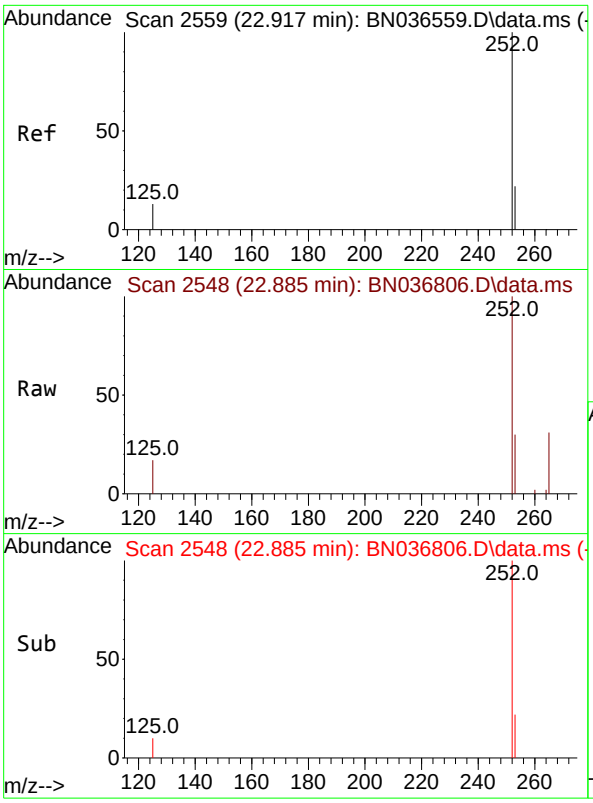


#37
Benzo(b)fluoranthene
Concen: 1.026 ng
RT: 22.841 min Scan# 2533
Delta R.T. -0.032 min
Lab File: BN036806.D
Acq: 29 Mar 2025 11:45

Tgt Ion:252 Resp: 5186

Ion	Ratio	Lower	Upper
252	100		
253	28.1	23.9	35.9
125	15.2	17.4	26.2#



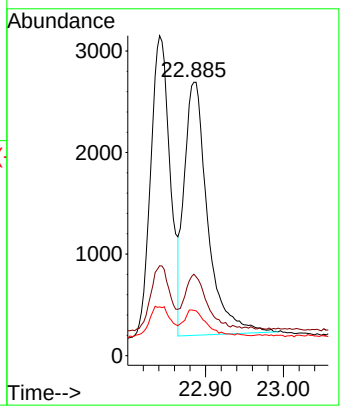


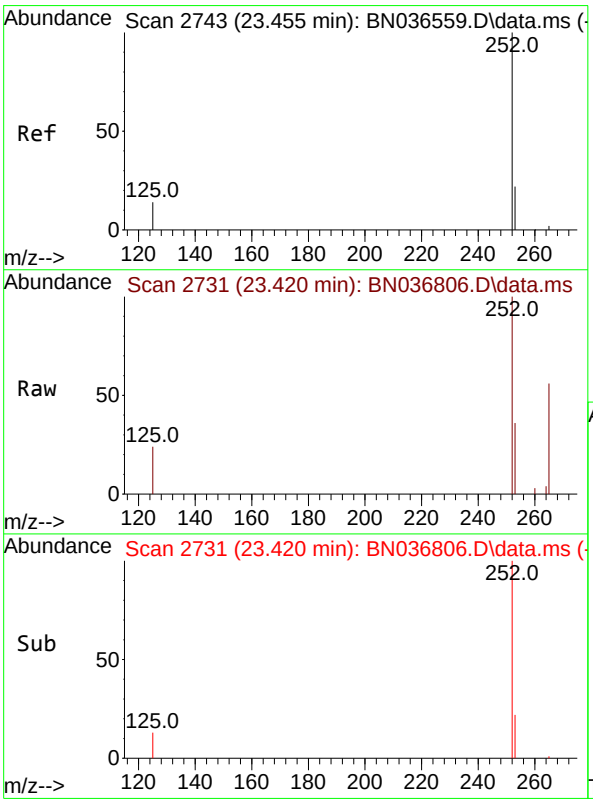
#38
Benzo(k)fluoranthene
Concen: 0.986 ng
RT: 22.885 min Scan# 2
Delta R.T. -0.032 min
Lab File: BN036806.D
Acq: 29 Mar 2025 11:45

Instrument :
BNA_N
ClientSampleId :
PB167269BS

Tgt Ion:252 Resp: 5229

Ion	Ratio	Lower	Upper
252	100		
253	29.8	24.6	36.8
125	16.6	17.8	26.8#

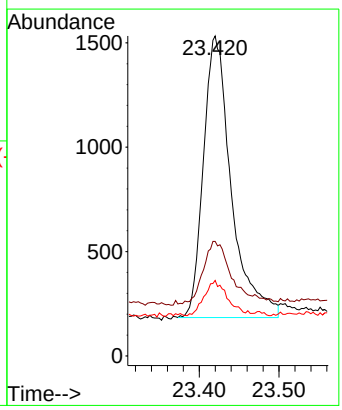


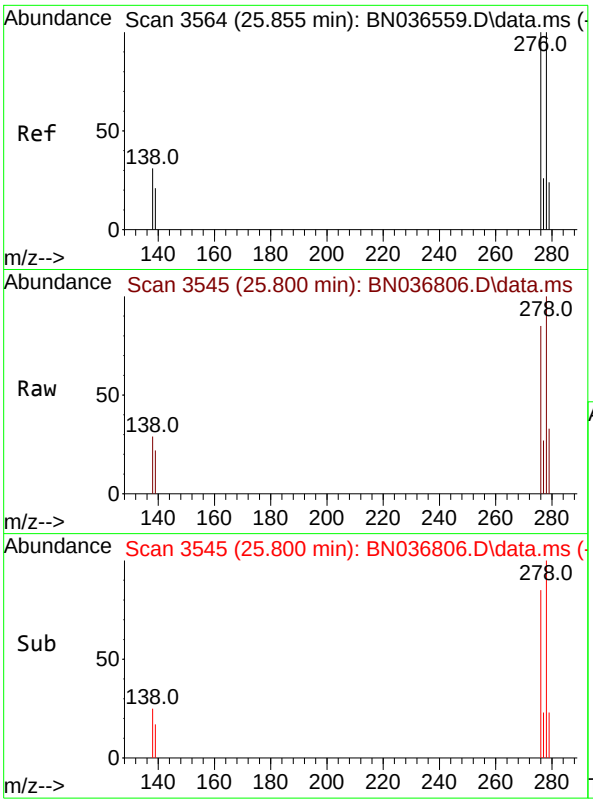


#39
Benzo(a)pyrene
Concen: 0.770 ng
RT: 23.420 min Scan# 2731
Delta R.T. -0.035 min
Lab File: BN036806.D
Acq: 29 Mar 2025 11:45

Tgt Ion:252 Resp: 3277

Ion	Ratio	Lower	Upper
252	100		
253	35.8	27.8	41.8
125	23.6	22.7	34.1



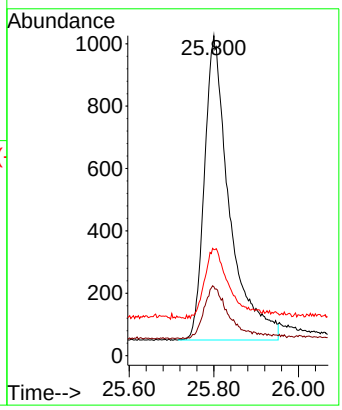


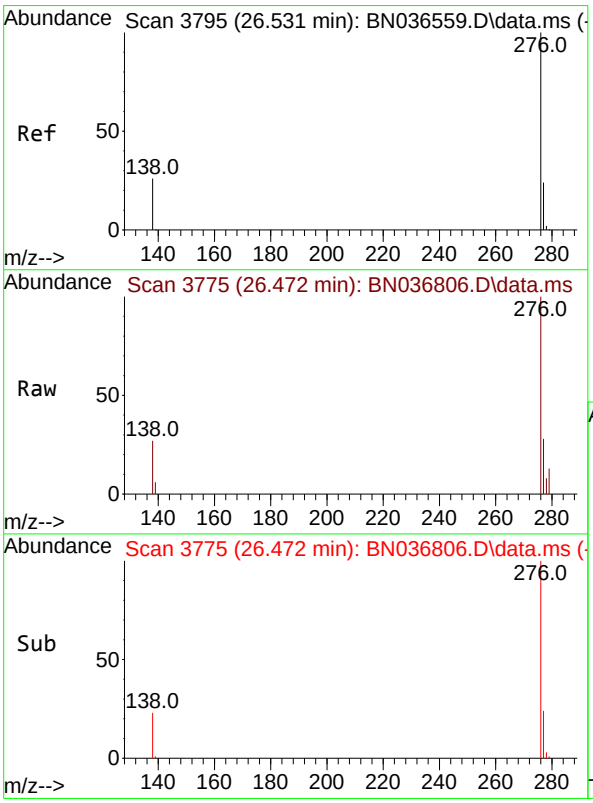
#40
Dibenzo(a,h)anthracene
Concen: 1.025 ng
RT: 25.800 min Scan# 3
Delta R.T. -0.055 min
Lab File: BN036806.D
Acq: 29 Mar 2025 11:45

Instrument :
BNA_N
ClientSampleId :
PB167269BS

Tgt Ion:278 Resp: 3999

Ion	Ratio	Lower	Upper
278	100		
139	21.5	20.8	31.2
279	33.1	28.8	43.2

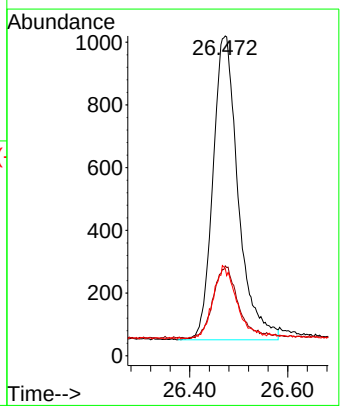




#41
Benzo(g,h,i)perylene
Concen: 0.776 ng
RT: 26.472 min Scan# 3775
Delta R.T. -0.058 min
Lab File: BN036806.D
Acq: 29 Mar 2025 11:45

Tgt Ion:276 Resp: 3464

Ion	Ratio	Lower	Upper
276	100		
277	28.1	22.2	33.4
138	27.4	24.1	36.1



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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage - RW5B CTO WE13 112G08005	Date Received:	
Client Sample ID:	PB167269BSD	SDG No.:	Q1621
Lab Sample ID:	PB167269BSD	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
BN036814.D	1	03/24/25 08:15	03/31/25 14:16	PB167269

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.32		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.43		30 - 150		106%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.43		30 - 150		108%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.44		55 - 111		109%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.46	*	53 - 106		116%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.52		58 - 132		131%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2860	7.695				
1146-65-2	Naphthalene-d8	7350	10.477				
15067-26-2	Acenaphthene-d10	4020	14.334				
1517-22-2	Phenanthrene-d10	7790	17.086				
1719-03-5	Chrysene-d12	4780	21.277				
1520-96-3	Perylene-d12	1670	23.519				

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\BN033125\
Data File : BN036814.D
Acq On : 31 Mar 2025 14:16
Operator : RC/JU
Sample : PB167269BSD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB167269BSD

Quant Time: Mar 31 14:40:11 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

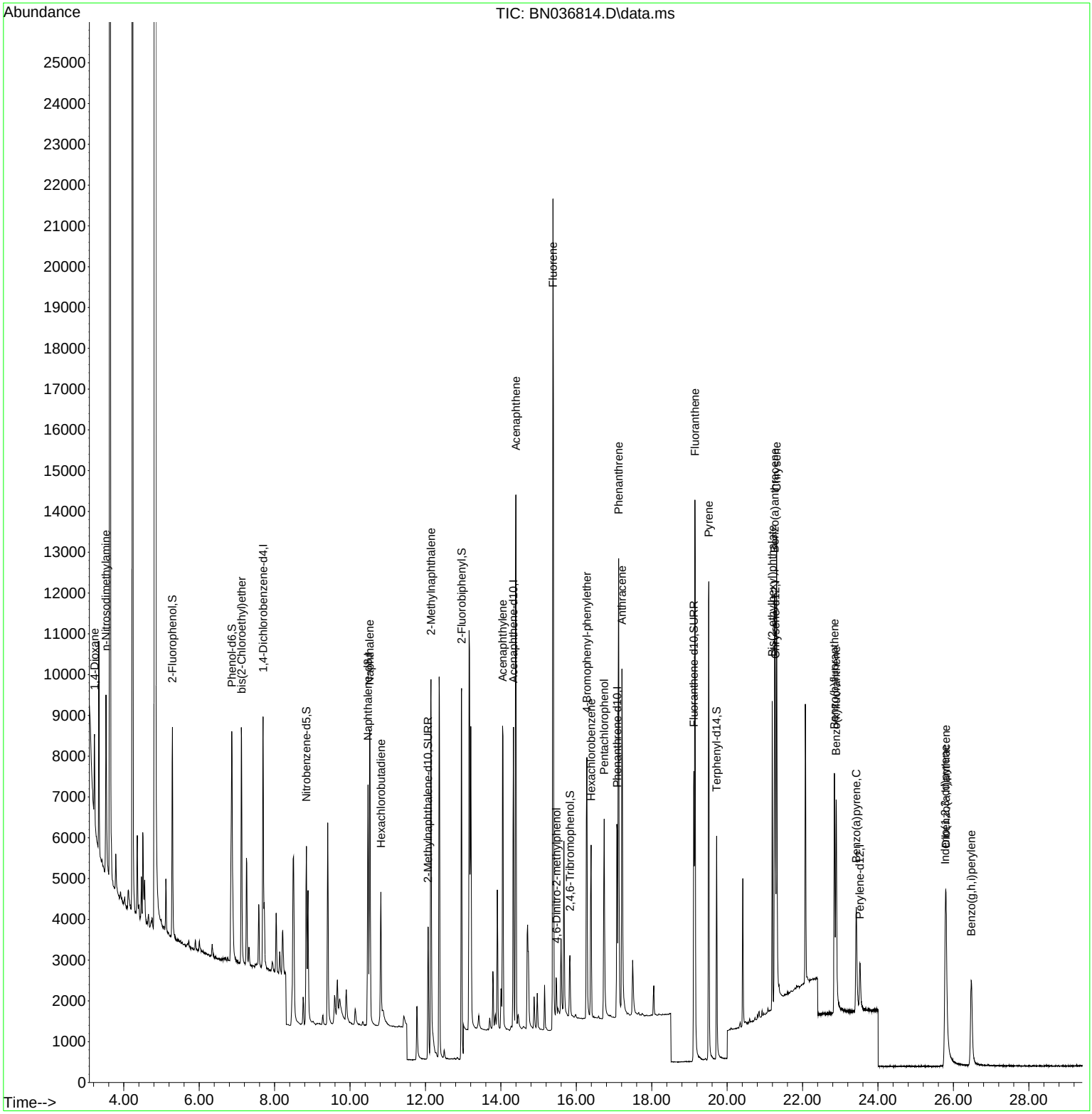
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.695	152	2858	0.400	ng		-0.03
7) Naphthalene-d8	10.477	136	7352	0.400	ng		#-0.03
13) Acenaphthene-d10	14.334	164	4021	0.400	ng		-0.03
19) Phenanthrene-d10	17.086	188	7787	0.400	ng		#-0.02
29) Chrysene-d12	21.277	240	4781	0.400	ng		#-0.02
35) Perylene-d12	23.519	264	1670	0.400	ng		#-0.04
System Monitoring Compounds							
4) 2-Fluorophenol	5.290	112	3663	0.550	ng		-0.02
5) Phenol-d6	6.865	99	4565	0.555	ng		-0.04
8) Nitrobenzene-d5	8.843	82	3491	0.436	ng		-0.03
11) 2-Methylnaphthalene-d10	12.070	152	4651	0.425	ng		-0.04
14) 2,4,6-Tribromophenol	15.833	330	932	0.511	ng		-0.02
15) 2-Fluorobiphenyl	12.958	172	10822	0.463	ng		-0.03
27) Fluoranthene-d10	19.118	212	8631	0.432	ng		-0.02
31) Terphenyl-d14	19.722	244	5990	0.523	ng		-0.02
Target Compounds							Qvalue
2) 1,4-Dioxane	3.225	88	1028	0.324	ng	#	56
3) n-Nitrosodimethylamine	3.528	42	3407	0.531	ng		88
6) bis(2-Chloroethyl)ether	7.125	93	4084	0.480	ng		96
9) Naphthalene	10.519	128	10220	0.473	ng		100
10) Hexachlorobutadiene	10.818	225	2311	0.454	ng	#	98
12) 2-Methylnaphthalene	12.146	142	6715	0.488	ng		99
16) Acenaphthylene	14.045	152	8923	0.470	ng		99
17) Acenaphthene	14.398	154	6339	0.510	ng		99
18) Fluorene	15.382	166	8375	0.498	ng		99
20) 4,6-Dinitro-2-methylph...	15.478	198	952	0.622	ng	#	52
21) 4-Bromophenyl-phenylether	16.280	248	2507	0.514	ng		88
22) Hexachlorobenzene	16.391	284	2869	0.487	ng		96
24) Pentachlorophenol	16.739	266	2659	0.990	ng		99
25) Phenanthrene	17.124	178	12206	0.523	ng		100
26) Anthracene	17.211	178	10876	0.516	ng		99
28) Fluoranthene	19.146	202	12865	0.490	ng		99
30) Pyrene	19.513	202	11729	0.502	ng		100
32) Benzo(a)anthracene	21.259	228	8542	0.514	ng		99
33) Chrysene	21.313	228	10531	0.580	ng		99
34) Bis(2-ethylhexyl)phtha...	21.196	149	6222	0.526	ng	#	99
36) Indeno(1,2,3-cd)pyrene	25.785	276	6515	1.081	ng		97
37) Benzo(b)fluoranthene	22.844	252	7608	1.252	ng	#	90
38) Benzo(k)fluoranthene	22.891	252	7777	1.220	ng	#	90
39) Benzo(a)pyrene	23.423	252	4618	0.902	ng	#	93
40) Dibenzo(a,h)anthracene	25.803	278	6002	1.279	ng	#	90
41) Benzo(g,h,i)perylene	26.475	276	4911	0.915	ng		96

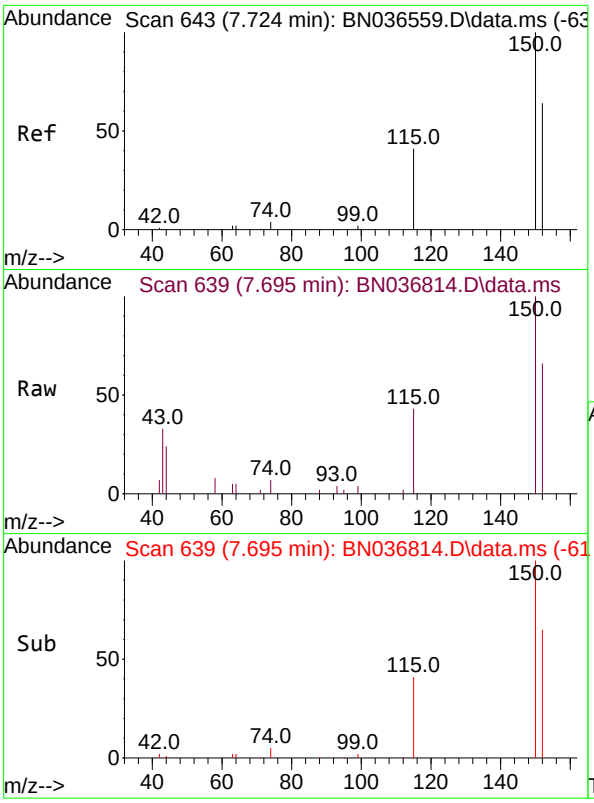
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN033125\
Data File : BN036814.D
Acq On : 31 Mar 2025 14:16
Operator : RC/JU
Sample : PB167269BSD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB167269BSD

Quant Time: Mar 31 14:40:11 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



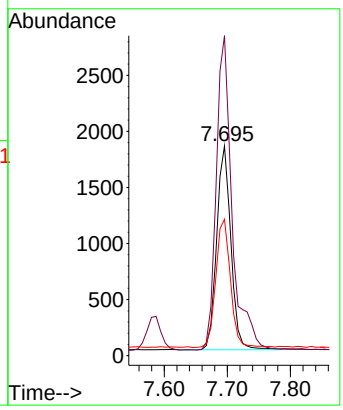


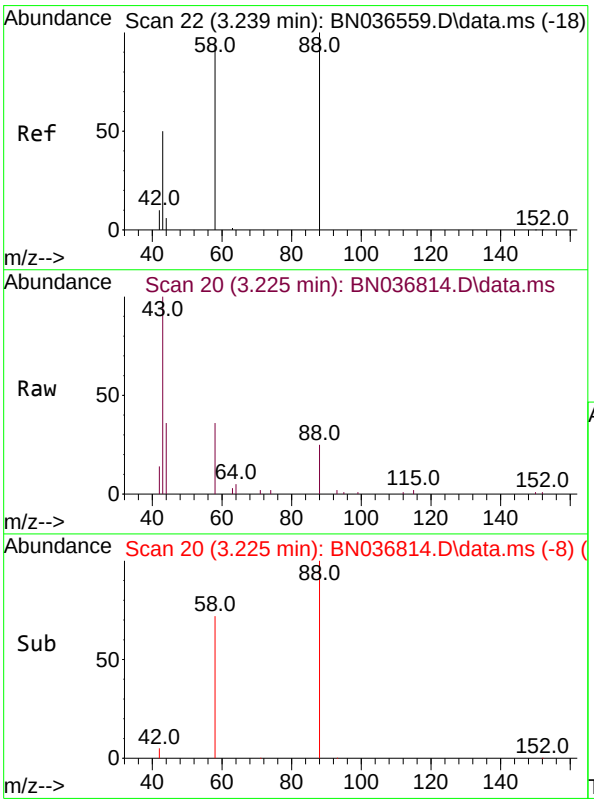
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.695 min Scan# 6
Delta R.T. -0.029 min
Lab File: BN036814.D
Acq: 31 Mar 2025 14:16

Instrument :
BNA_N
ClientSampleId :
PB167269BSD

Tgt Ion:152 Resp: 2858

Ion	Ratio	Lower	Upper
152	100		
150	152.5	123.7	185.5
115	65.0	54.3	81.5

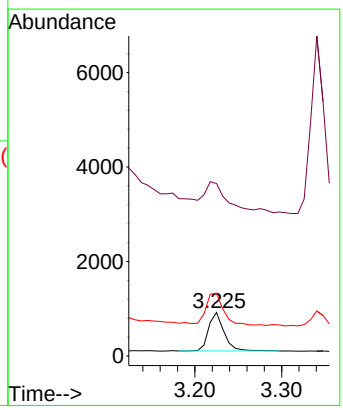


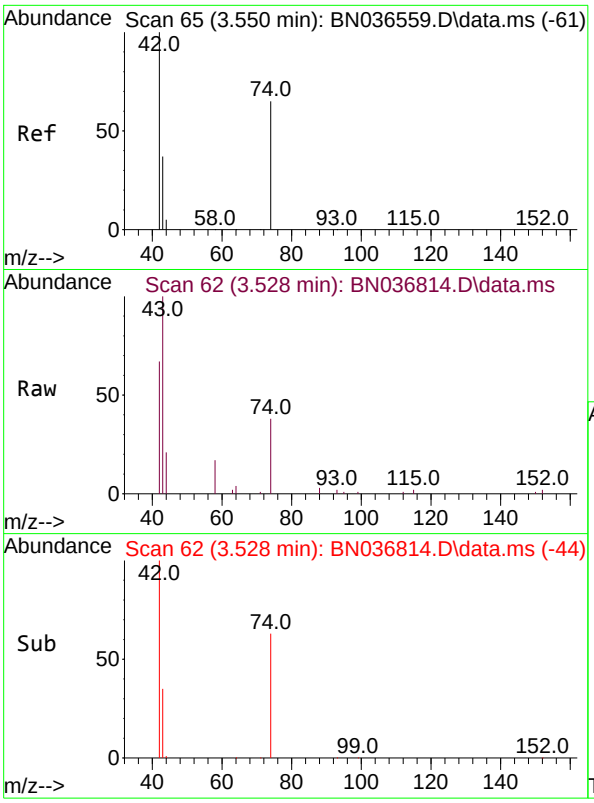


#2
1,4-Dioxane
Concen: 0.324 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036814.D
Acq: 31 Mar 2025 14:16

Tgt Ion: 88 Resp: 1028

Ion	Ratio	Lower	Upper
88	100		
43	116.9	37.8	56.8#
58	93.3	67.4	101.2



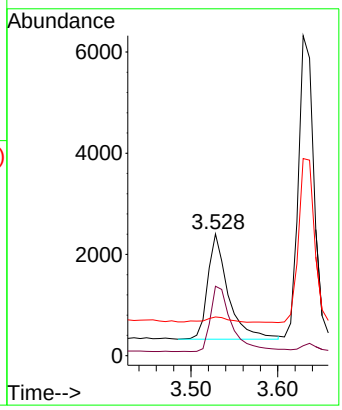


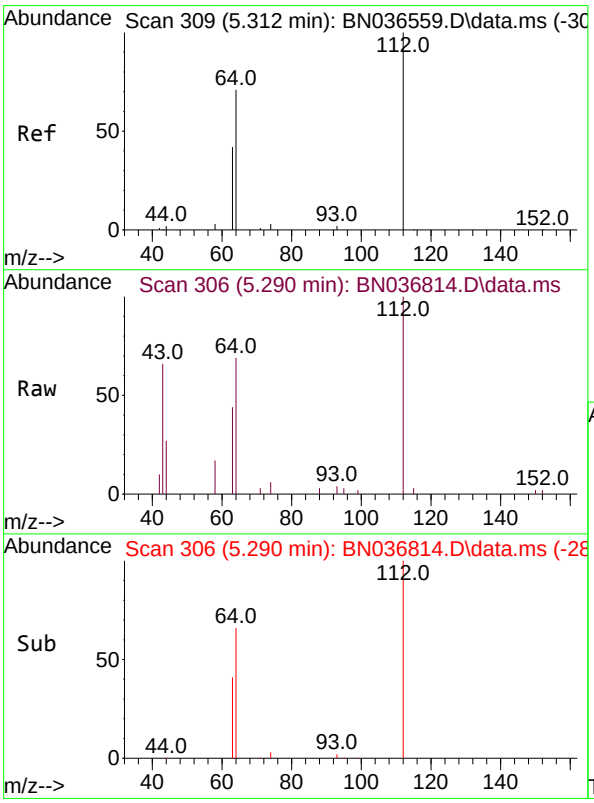
#3
n-Nitrosodimethylamine
Concen: 0.531 ng
RT: 3.528 min Scan# 6
Delta R.T. -0.022 min
Lab File: BN036814.D
Acq: 31 Mar 2025 14:16

Instrument :
BNA_N
ClientSampleId :
PB167269BSD

Tgt Ion: 42 Resp: 3407

Ion	Ratio	Lower	Upper
42	100		
74	65.1	60.6	90.8
44	6.7	6.3	9.5

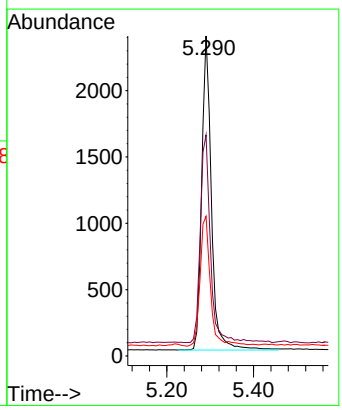


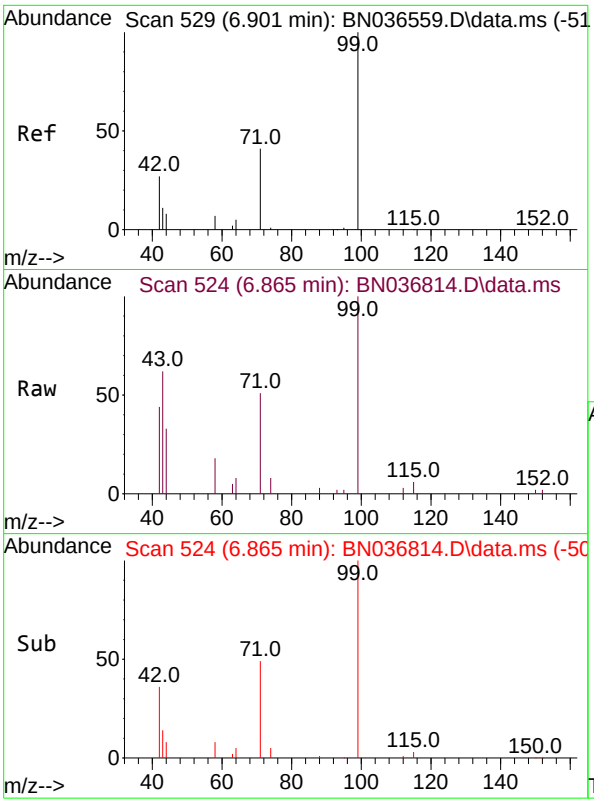


#4
2-Fluorophenol
Concen: 0.550 ng
RT: 5.290 min Scan# 306
Delta R.T. -0.022 min
Lab File: BN036814.D
Acq: 31 Mar 2025 14:16

Tgt Ion:112 Resp: 3663

Ion	Ratio	Lower	Upper
112	100		
64	67.9	53.1	79.7
63	44.7	31.8	47.8



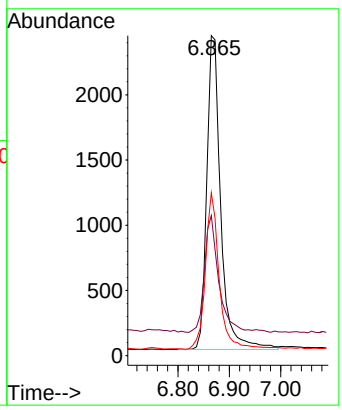


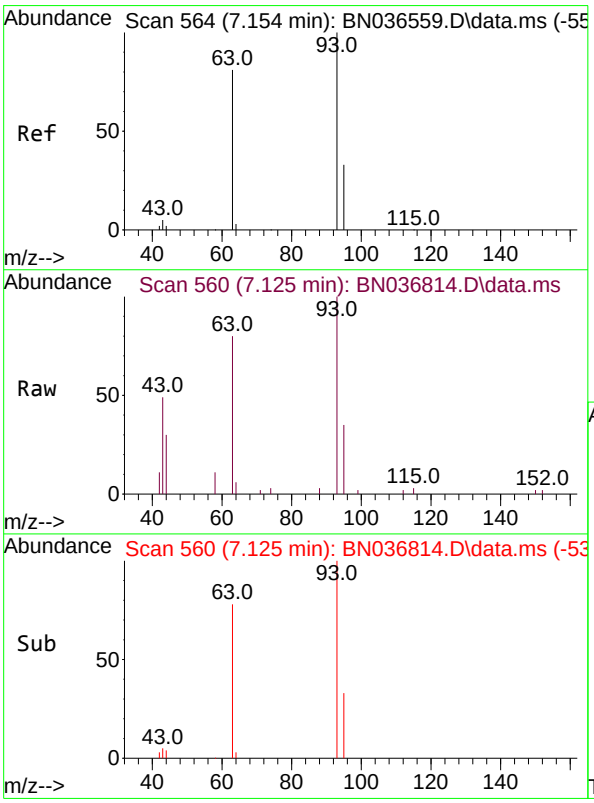
#5
Phenol-d6
Concen: 0.555 ng
RT: 6.865 min Scan# 5
Delta R.T. -0.036 min
Lab File: BN036814.D
Acq: 31 Mar 2025 14:16

Instrument :
BNA_N
ClientSampleId :
PB167269BSD

Tgt Ion: 99 Resp: 4565

Ion	Ratio	Lower	Upper
99	100		
42	37.6	26.5	39.7
71	49.9	34.1	51.1

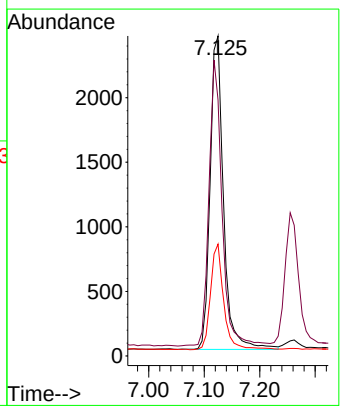


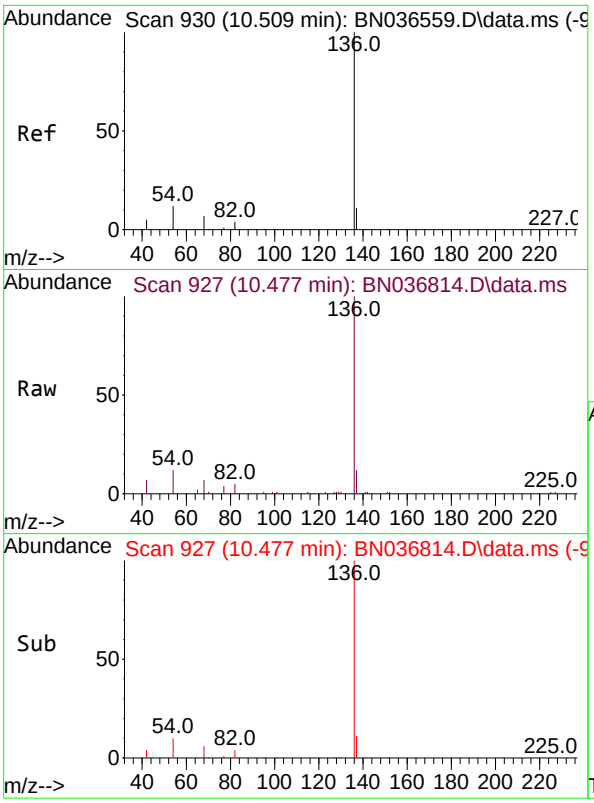


#6
bis(2-Chloroethyl)ether
Concen: 0.480 ng
RT: 7.125 min Scan# 560
Delta R.T. -0.029 min
Lab File: BN036814.D
Acq: 31 Mar 2025 14:16

Tgt Ion: 93 Resp: 4084

Ion	Ratio	Lower	Upper
93	100		
63	88.9	67.7	101.5
95	33.1	25.6	38.4



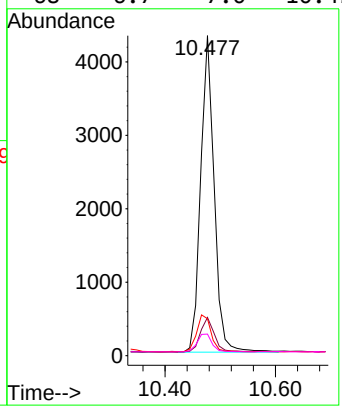


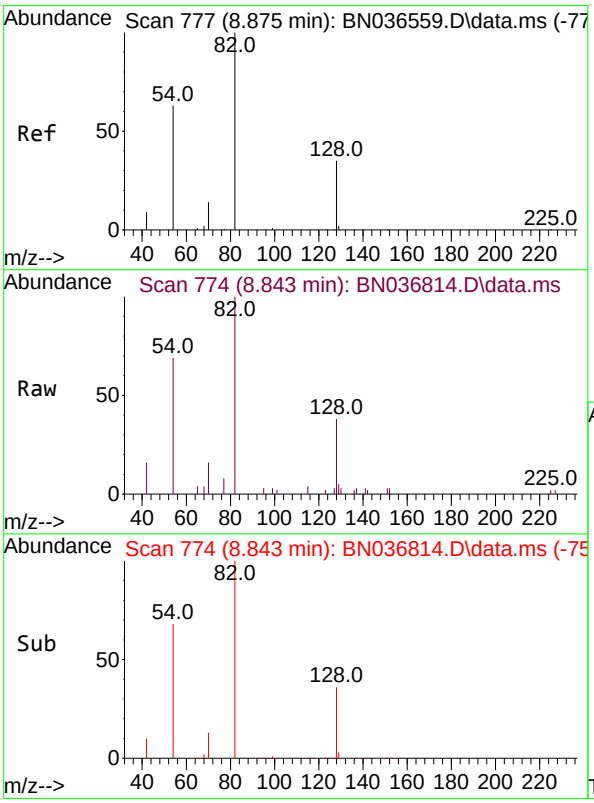
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.477 min Scan# 9
Delta R.T. -0.032 min
Lab File: BN036814.D
Acq: 31 Mar 2025 14:16

Instrument :
BNA_N
ClientSampleId :
PB167269BSD

Tgt Ion:136 Resp: 7352

Ion	Ratio	Lower	Upper
136	100		
137	11.9	10.3	15.5
54	11.5	11.5	17.3
68	6.7	7.0	10.4#

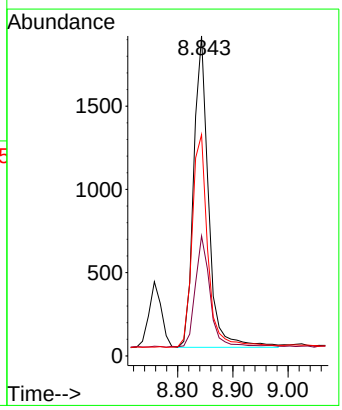


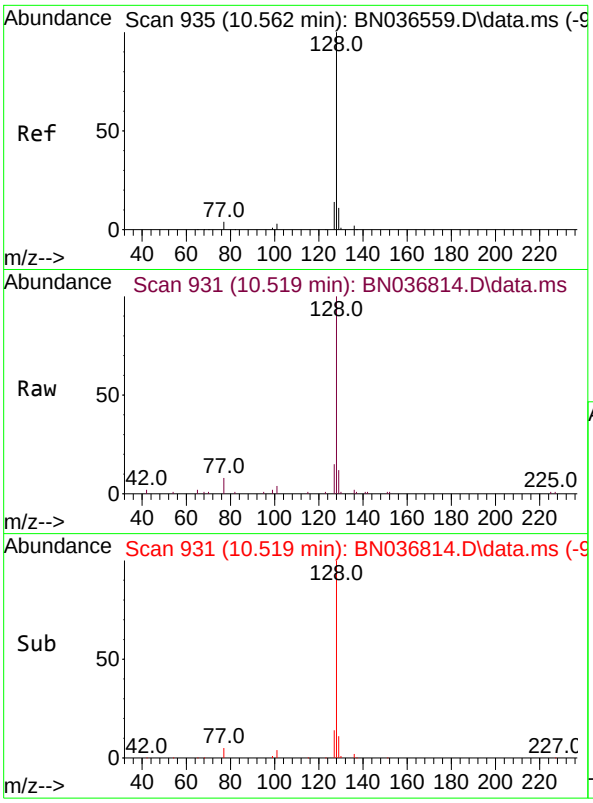


#8
Nitrobenzene-d5
Concen: 0.436 ng
RT: 8.843 min Scan# 774
Delta R.T. -0.032 min
Lab File: BN036814.D
Acq: 31 Mar 2025 14:16

Tgt Ion: 82 Resp: 3491

Ion	Ratio	Lower	Upper
82	100		
128	37.5	30.6	45.8
54	69.1	52.2	78.4



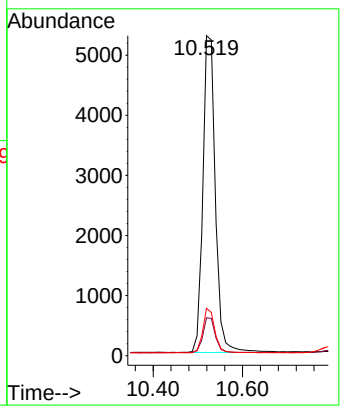


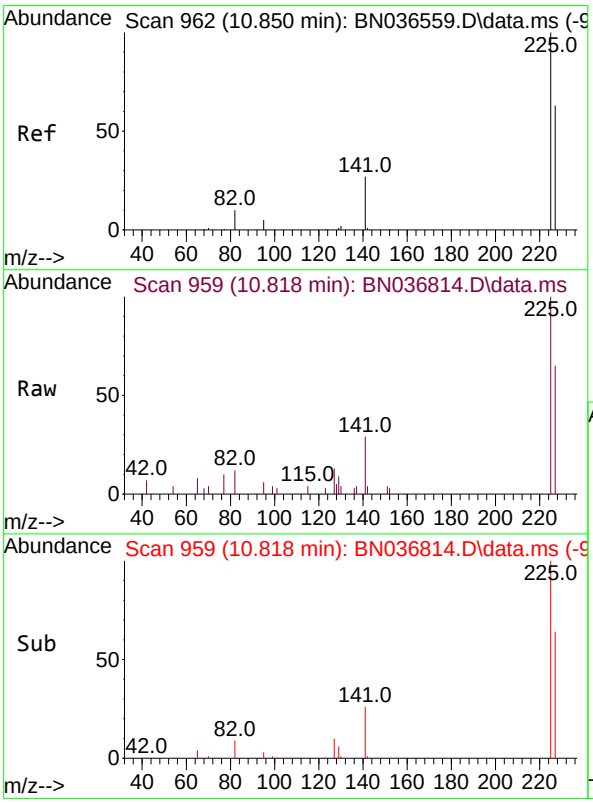
#9
Naphthalene
Concen: 0.473 ng
RT: 10.519 min Scan# 9
Delta R.T. -0.043 min
Lab File: BN036814.D
Acq: 31 Mar 2025 14:16

Instrument :
BNA_N
ClientSampleId :
PB167269BSD

Tgt Ion:128 Resp: 10220

Ion	Ratio	Lower	Upper
128	100		
129	11.8	9.8	14.6
127	14.8	11.8	17.8

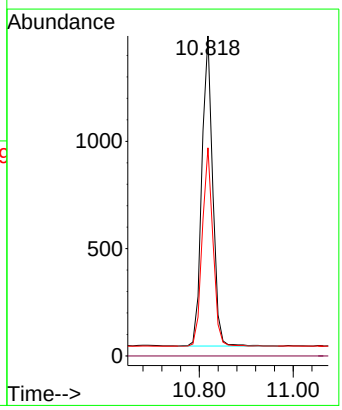


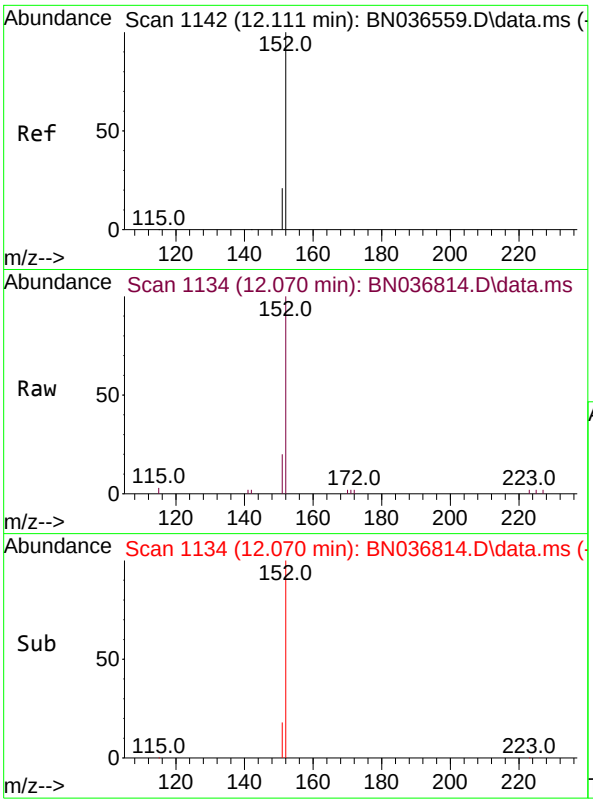


#10
Hexachlorobutadiene
Concen: 0.454 ng
RT: 10.818 min Scan# 959
Delta R.T. -0.032 min
Lab File: BN036814.D
Acq: 31 Mar 2025 14:16

Tgt Ion:225 Resp: 2311

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.4	51.8	77.8



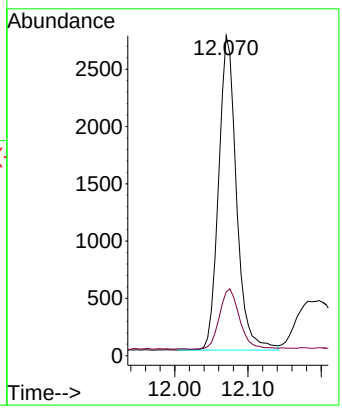


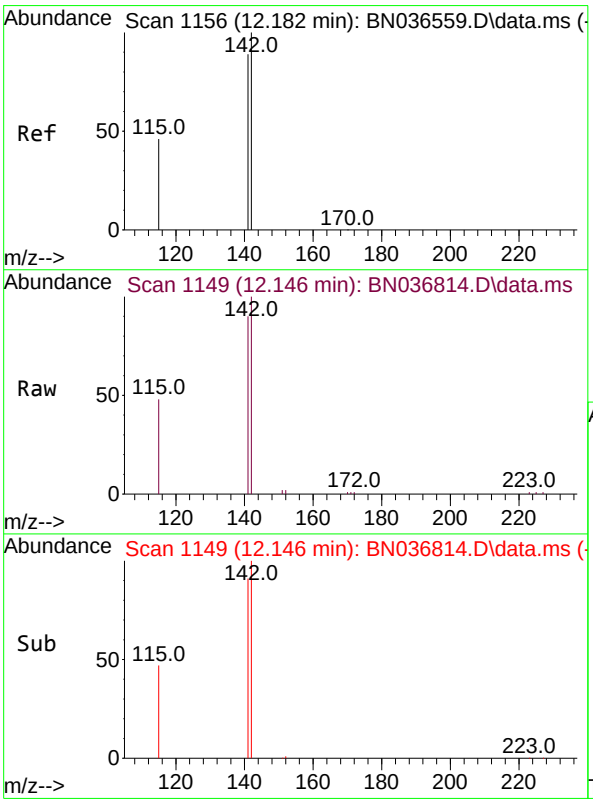
#11
2-Methylnaphthalene-d10
Concen: 0.425 ng
RT: 12.070 min Scan# 11
Delta R.T. -0.041 min
Lab File: BN036814.D
Acq: 31 Mar 2025 14:16

Instrument :
BNA_N
ClientSampleId :
PB167269BSD

Tgt Ion:152 Resp: 4651

Ion	Ratio	Lower	Upper
152	100		
151	21.6	17.0	25.6

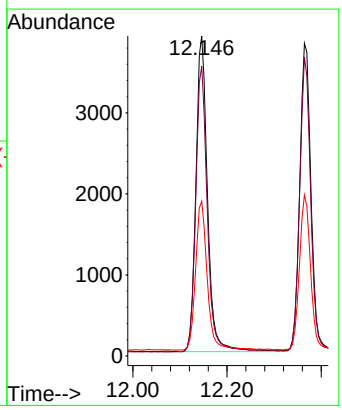


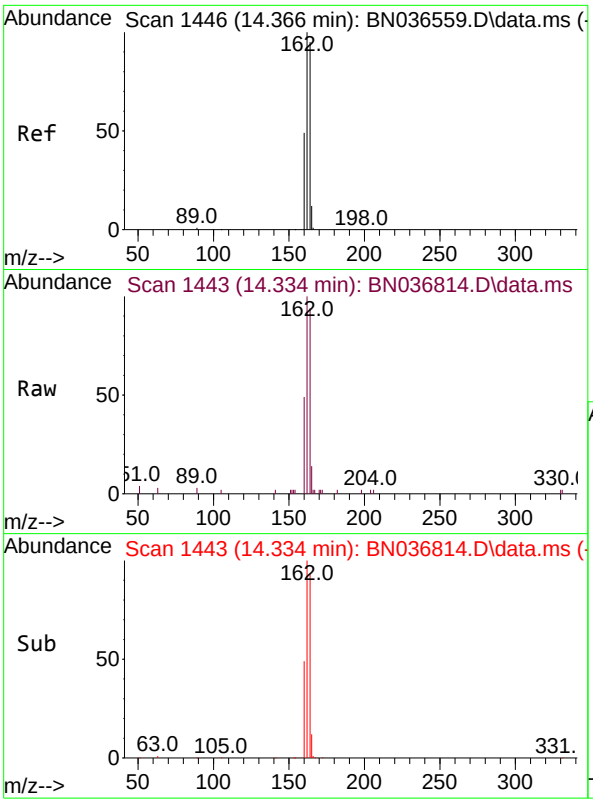


#12
2-Methylnaphthalene
Concen: 0.488 ng
RT: 12.146 min Scan# 1149
Delta R.T. -0.035 min
Lab File: BN036814.D
Acq: 31 Mar 2025 14:16

Tgt Ion:142 Resp: 6715

Ion	Ratio	Lower	Upper
142	100		
141	90.5	71.7	107.5
115	48.3	38.3	57.5



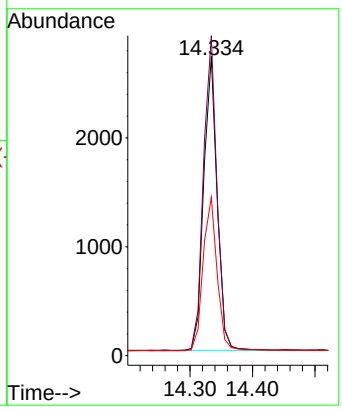


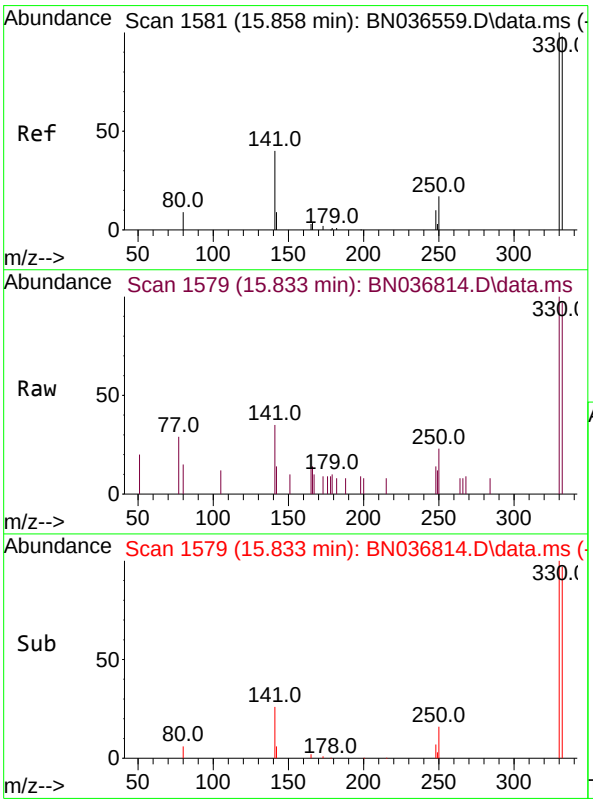
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036814.D
Acq: 31 Mar 2025 14:16

Instrument :
BNA_N
ClientSampleId :
PB167269BSD

Tgt Ion:164 Resp: 4021

Ion	Ratio	Lower	Upper
164	100		
162	106.9	84.2	126.2
160	52.9	42.2	63.2

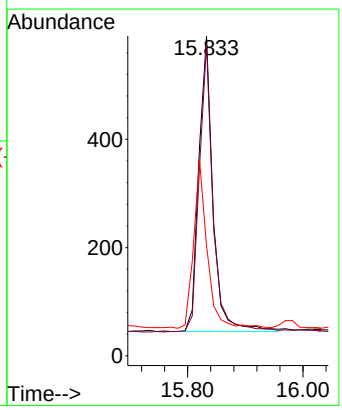


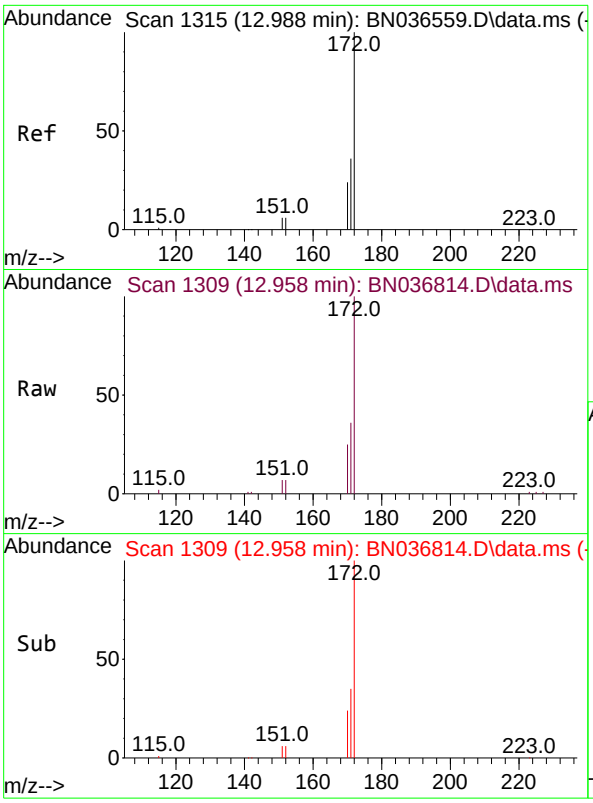


#14
2,4,6-Tribromophenol
Concen: 0.511 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.025 min
Lab File: BN036814.D
Acq: 31 Mar 2025 14:16

Tgt Ion:330 Resp: 932

Ion	Ratio	Lower	Upper
330	100		
332	95.0	75.2	112.8
141	53.5	43.4	65.2



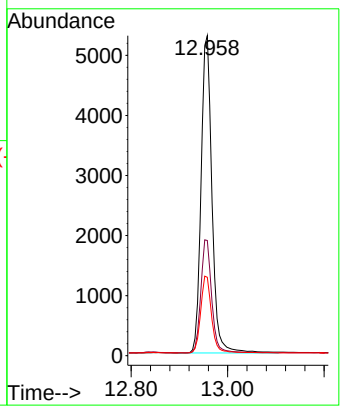


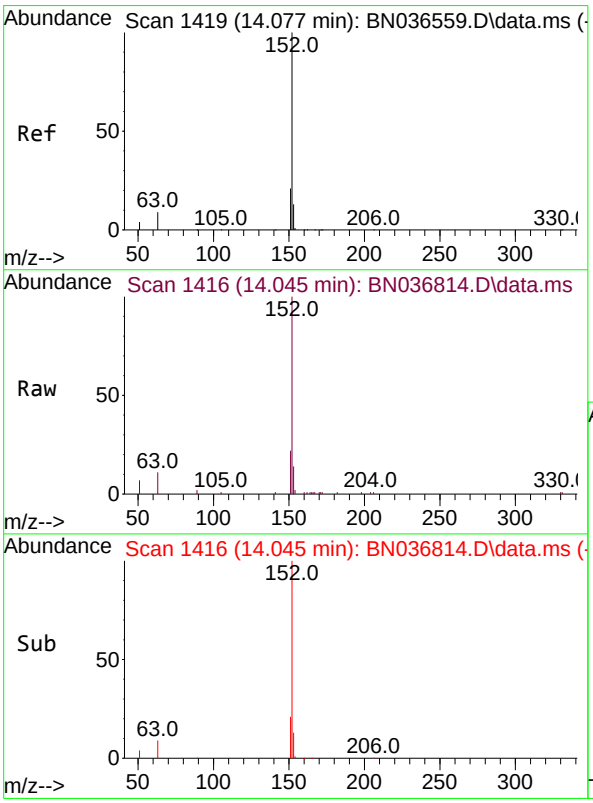
#15
2-Fluorobiphenyl
Concen: 0.463 ng
RT: 12.958 min Scan# 1
Delta R.T. -0.030 min
Lab File: BN036814.D
Acq: 31 Mar 2025 14:16

Instrument :
BNA_N
ClientSampleId :
PB167269BSD

Tgt Ion:172 Resp: 10822

Ion	Ratio	Lower	Upper
172	100		
171	36.0	29.5	44.3
170	24.5	20.2	30.4

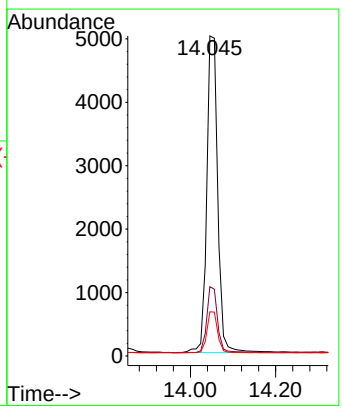


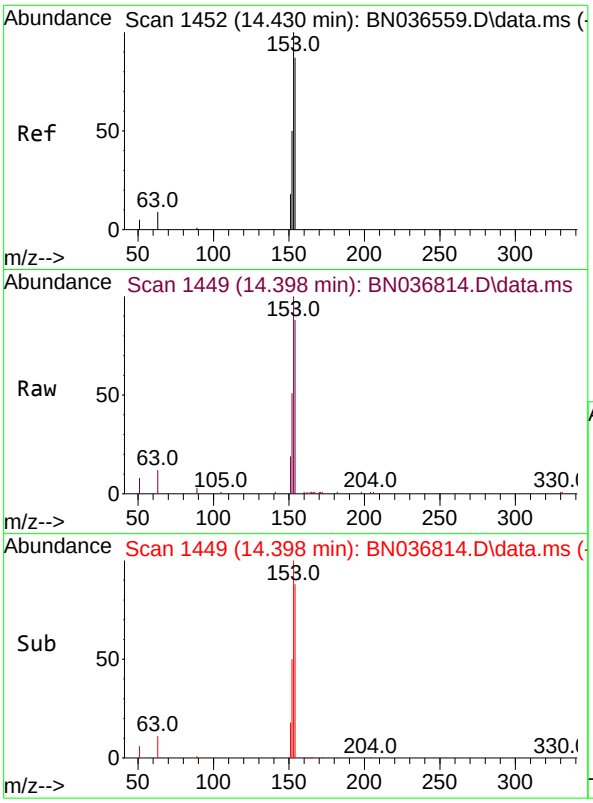


#16
Acenaphthylene
Concen: 0.470 ng
RT: 14.045 min Scan# 1416
Delta R.T. -0.032 min
Lab File: BN036814.D
Acq: 31 Mar 2025 14:16

Tgt Ion:152 Resp: 8923

Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.2	24.4
153	13.0	10.6	15.8



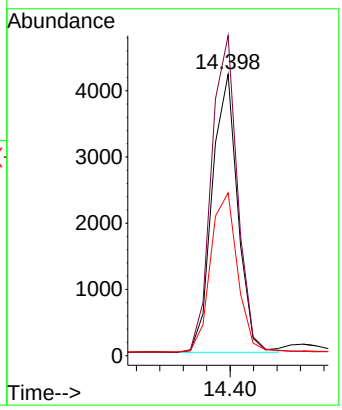


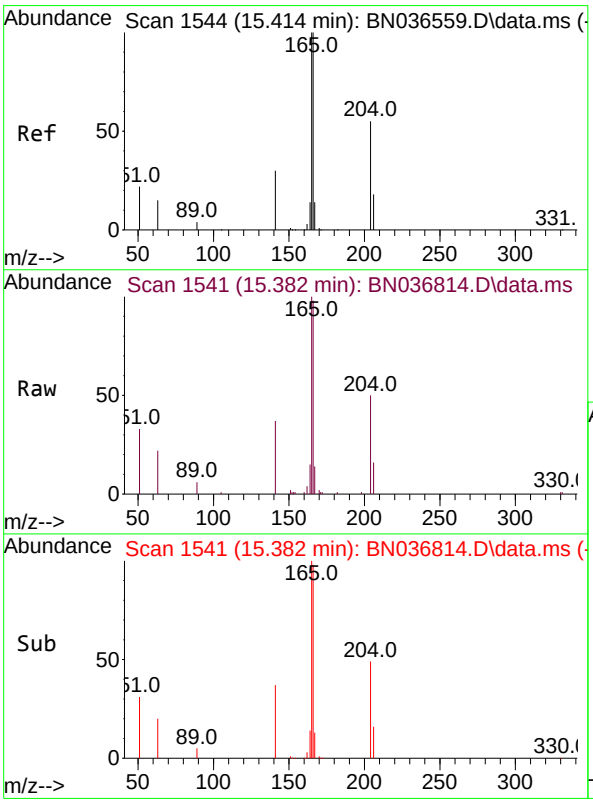
#17
Acenaphthene
Concen: 0.510 ng
RT: 14.398 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036814.D
Acq: 31 Mar 2025 14:16

Instrument :
BNA_N
ClientSampleId :
PB167269BSD

Tgt Ion:154 Resp: 6339

Ion	Ratio	Lower	Upper
154	100		
153	116.7	94.1	141.1
152	60.9	49.8	74.6

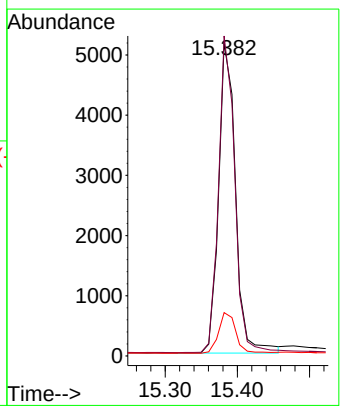


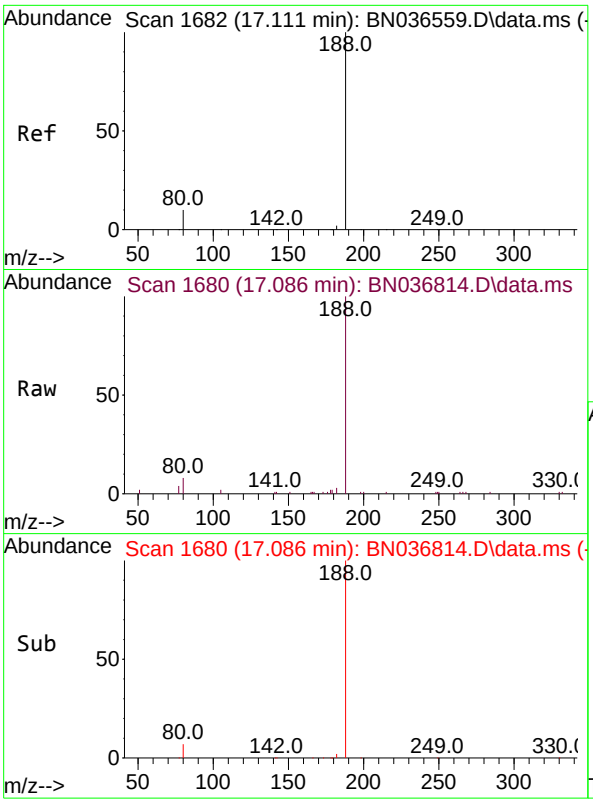


#18
Fluorene
Concen: 0.498 ng
RT: 15.382 min Scan# 1541
Delta R.T. -0.032 min
Lab File: BN036814.D
Acq: 31 Mar 2025 14:16

Tgt Ion:166 Resp: 8375

Ion	Ratio	Lower	Upper
166	100		
165	100.4	79.8	119.8
167	13.3	10.6	15.8



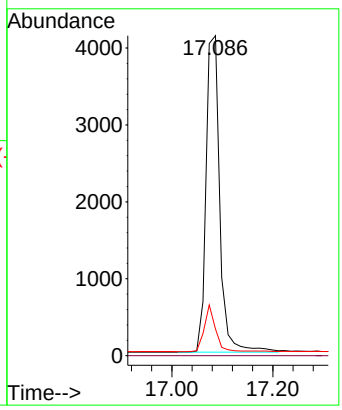


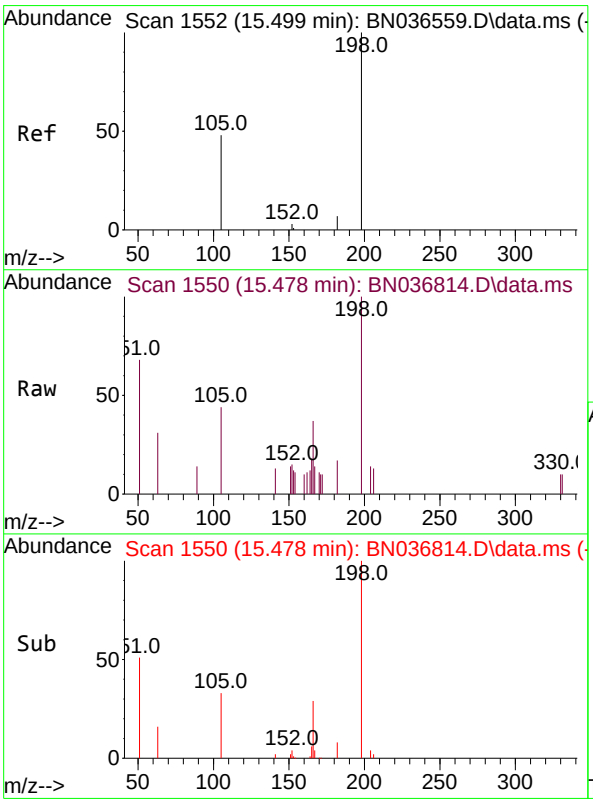
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036814.D
Acq: 31 Mar 2025 14:16

Instrument :
BNA_N
ClientSampleId :
PB167269BSD

Tgt Ion:188 Resp: 7787

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.4	8.8	13.2#

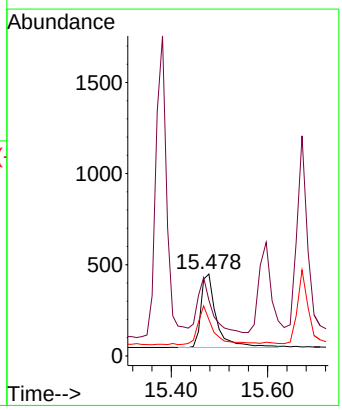


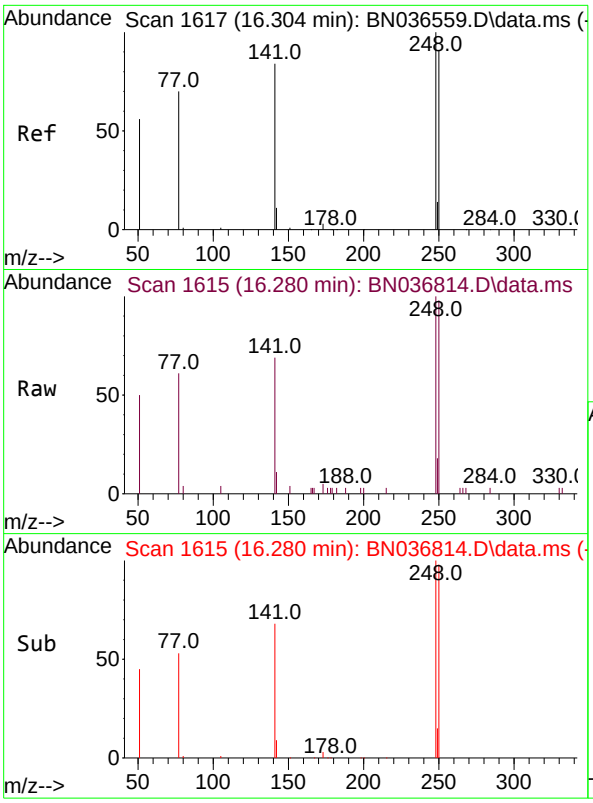


#20
4,6-Dinitro-2-methylphenol
Concen: 0.622 ng
RT: 15.478 min Scan# 1550
Delta R.T. -0.021 min
Lab File: BN036814.D
Acq: 31 Mar 2025 14:16

Tgt Ion:198 Resp: 952

Ion	Ratio	Lower	Upper
198	100		
51	67.9	107.9	161.9#
105	44.3	56.2	84.2#



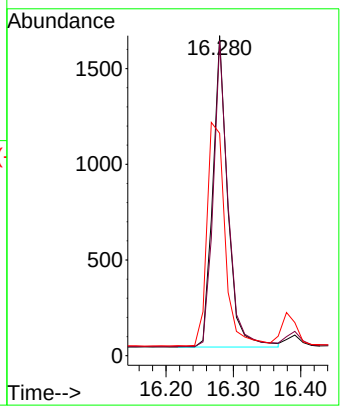


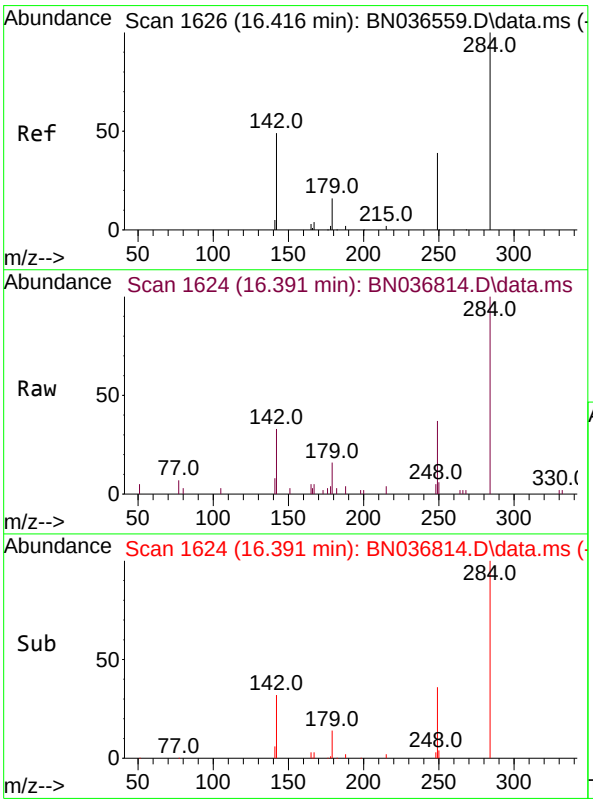
#21
4-Bromophenyl-phenylether
Concen: 0.514 ng
RT: 16.280 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036814.D
Acq: 31 Mar 2025 14:16

Instrument :
BNA_N
ClientSampleId :
PB167269BSD

Tgt Ion:248 Resp: 2507

Ion	Ratio	Lower	Upper
248	100		
250	98.4	73.0	109.6
141	69.5	68.6	103.0

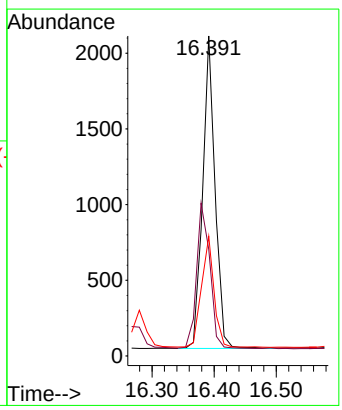


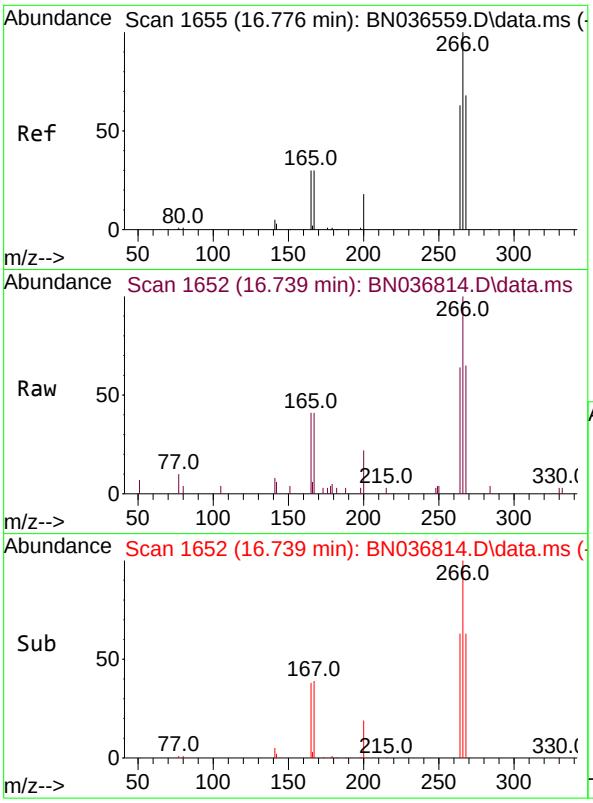


#22
Hexachlorobenzene
Concen: 0.487 ng
RT: 16.391 min Scan# 1624
Delta R.T. -0.025 min
Lab File: BN036814.D
Acq: 31 Mar 2025 14:16

Tgt Ion:284 Resp: 2869

Ion	Ratio	Lower	Upper
284	100		
142	49.9	37.0	55.4
249	36.4	28.1	42.1



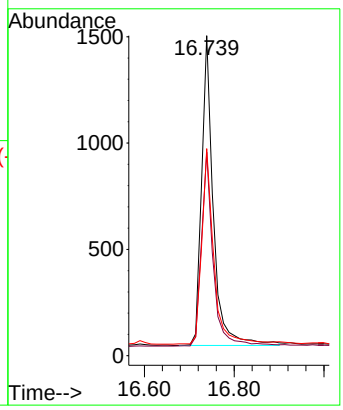


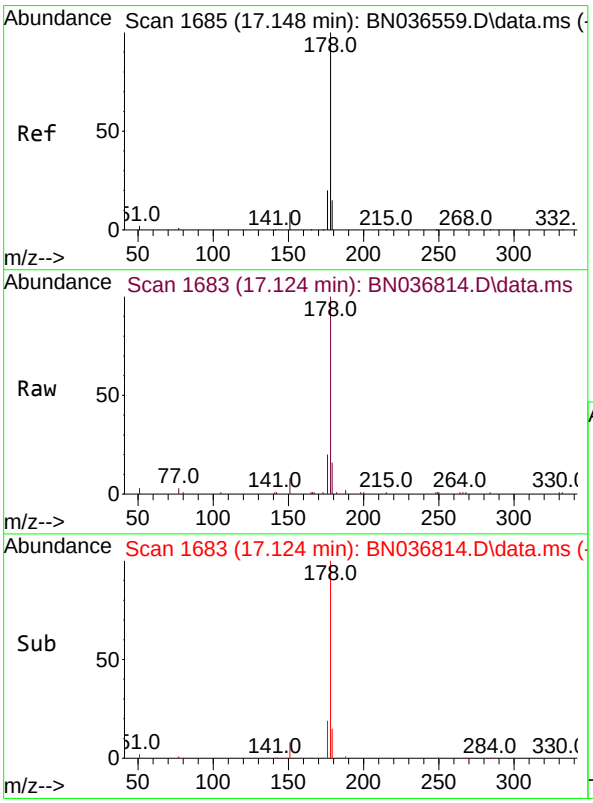
#24
Pentachlorophenol
Concen: 0.990 ng
RT: 16.739 min Scan# 1
Delta R.T. -0.037 min
Lab File: BN036814.D
Acq: 31 Mar 2025 14:16

Instrument :
BNA_N
ClientSampleId :
PB167269BSD

Tgt Ion:266 Resp: 2659

Ion	Ratio	Lower	Upper
266	100		
264	62.7	49.6	74.4
268	64.3	50.9	76.3

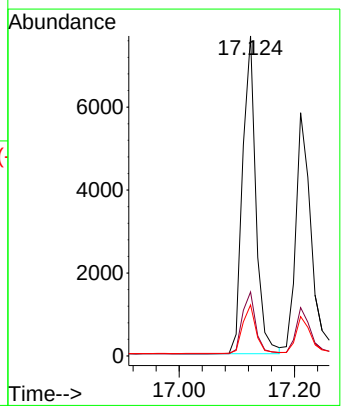


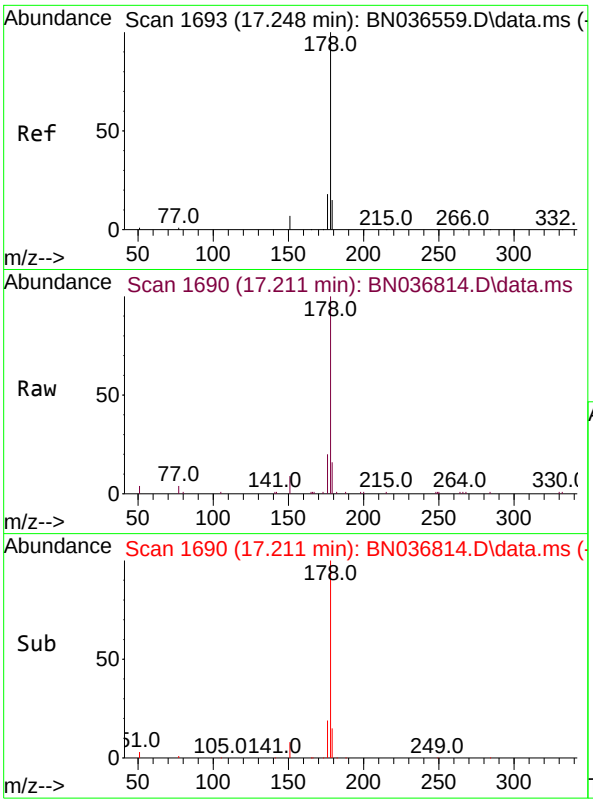


#25
Phenanthrene
Concen: 0.523 ng
RT: 17.124 min Scan# 1683
Delta R.T. -0.025 min
Lab File: BN036814.D
Acq: 31 Mar 2025 14:16

Tgt Ion:178 Resp: 12206

Ion	Ratio	Lower	Upper
178	100		
176	20.0	15.9	23.9
179	15.4	12.2	18.4



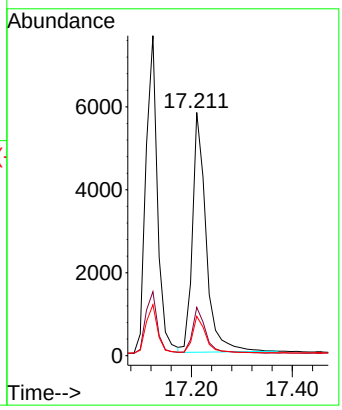


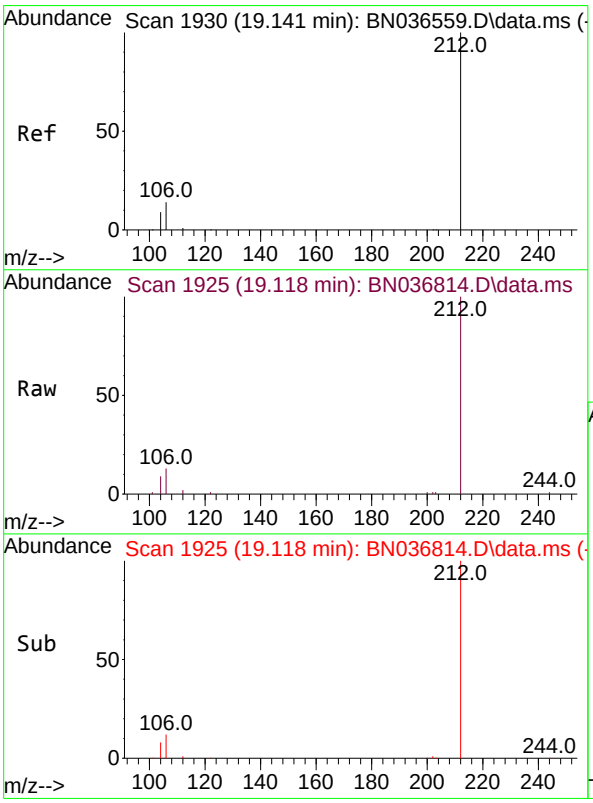
#26
Anthracene
Concen: 0.516 ng
RT: 17.211 min Scan# 1
Delta R.T. -0.037 min
Lab File: BN036814.D
Acq: 31 Mar 2025 14:16

Instrument :
BNA_N
ClientSampleId :
PB167269BSD

Tgt Ion:178 Resp: 10876

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.4	23.2
179	15.2	12.6	18.8

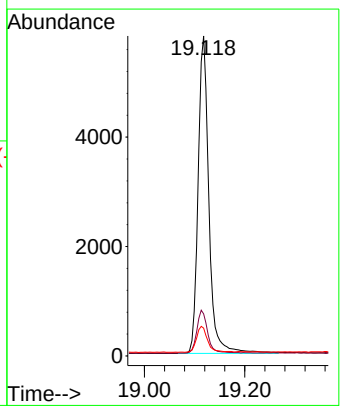


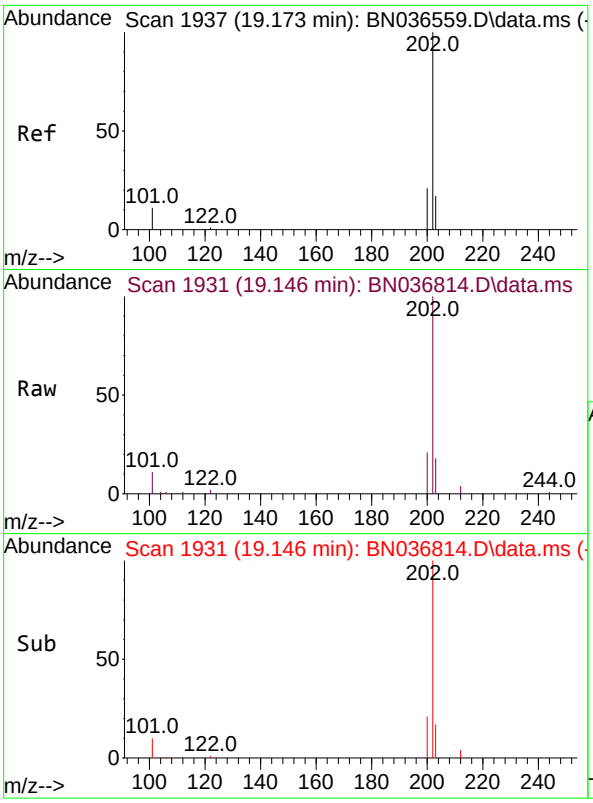


#27
Fluoranthene-d10
Concen: 0.432 ng
RT: 19.118 min Scan# 1925
Delta R.T. -0.023 min
Lab File: BN036814.D
Acq: 31 Mar 2025 14:16

Tgt Ion:212 Resp: 8631

Ion	Ratio	Lower	Upper
212	100		
106	13.5	11.8	17.6
104	8.4	7.3	10.9



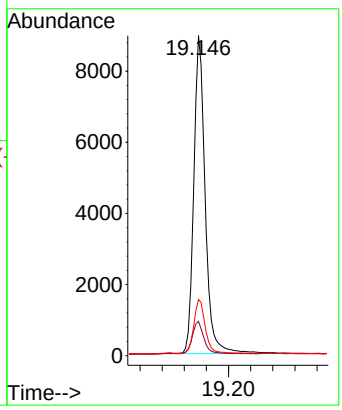


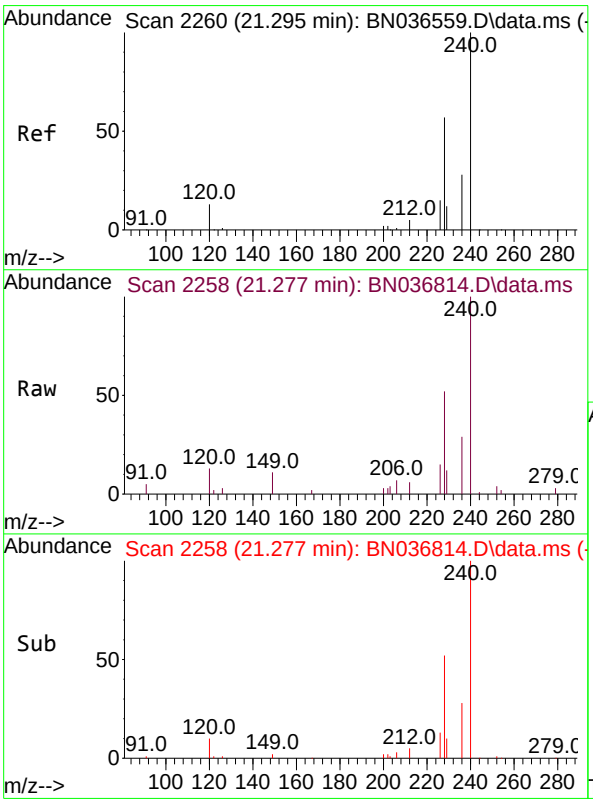
#28
Fluoranthene
Concen: 0.490 ng
RT: 19.146 min Scan# 1
Delta R.T. -0.028 min
Lab File: BN036814.D
Acq: 31 Mar 2025 14:16

Instrument :
BNA_N
ClientSampleId :
PB167269BSD

Tgt Ion:202 Resp: 12865

Ion	Ratio	Lower	Upper
202	100		
101	10.8	9.4	14.0
203	16.8	13.5	20.3

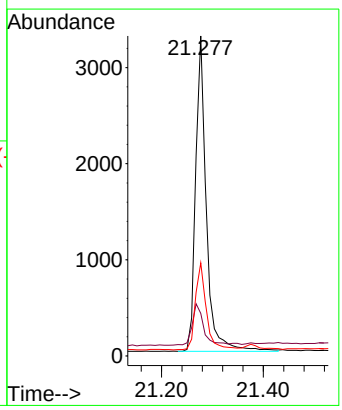


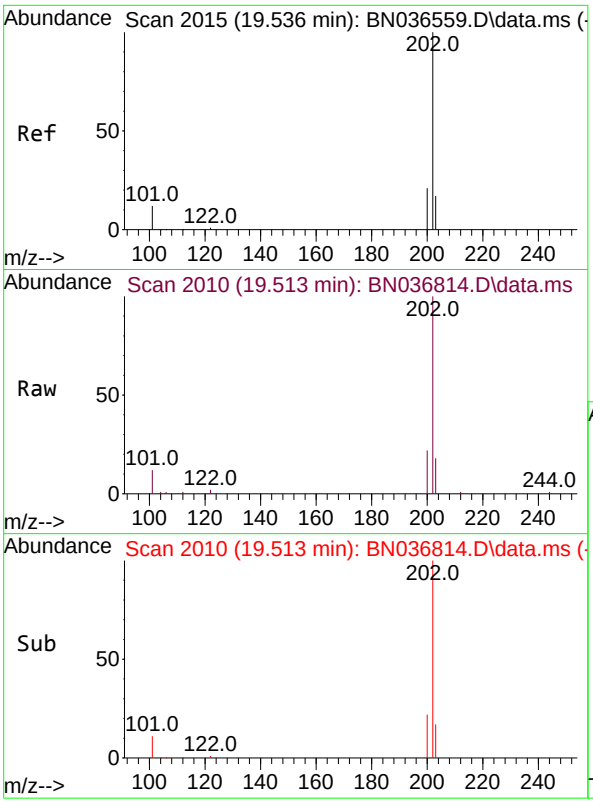


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.018 min
Lab File: BN036814.D
Acq: 31 Mar 2025 14:16

Tgt Ion:240 Resp: 4781

Ion	Ratio	Lower	Upper
240	100		
120	13.3	14.6	22.0#
236	29.1	24.1	36.1



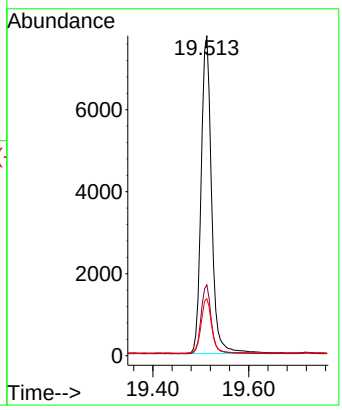


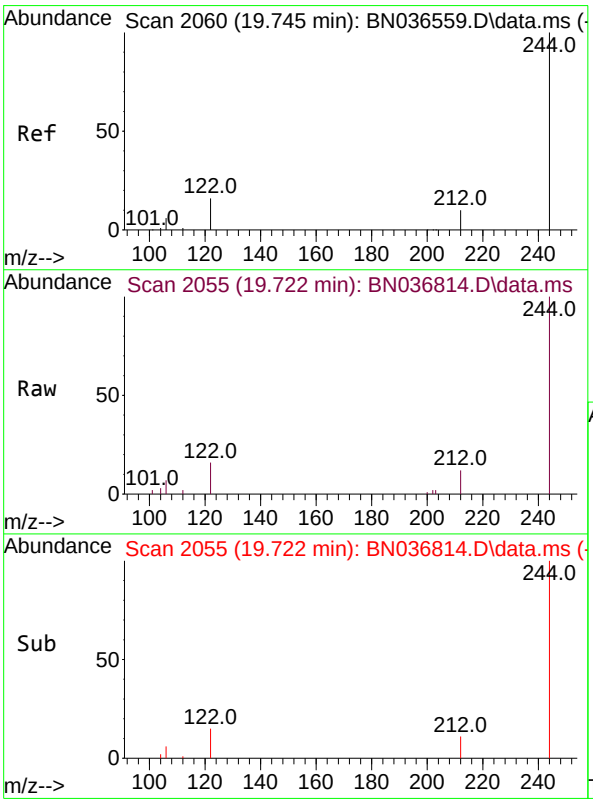
#30
Pyrene
Concen: 0.502 ng
RT: 19.513 min Scan# 2
Delta R.T. -0.023 min
Lab File: BN036814.D
Acq: 31 Mar 2025 14:16

Instrument :
BNA_N
ClientSampleId :
PB167269BSD

Tgt Ion:202 Resp: 11729

Ion	Ratio	Lower	Upper
202	100		
200	21.5	17.1	25.7
203	17.3	14.1	21.1

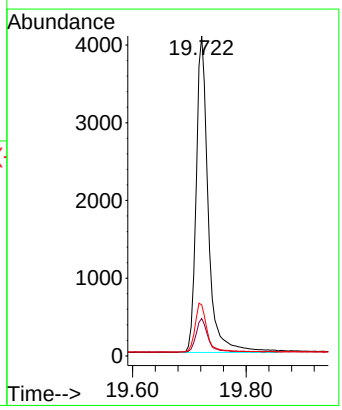


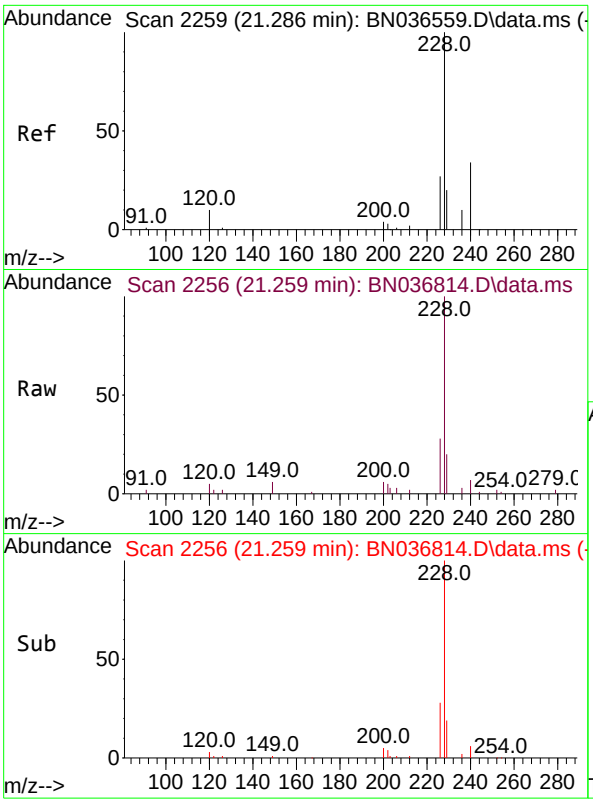


#31
Terphenyl-d14
Concen: 0.523 ng
RT: 19.722 min Scan# 2055
Delta R.T. -0.023 min
Lab File: BN036814.D
Acq: 31 Mar 2025 14:16

Tgt Ion:244 Resp: 5990

Ion	Ratio	Lower	Upper
244	100		
212	11.7	9.6	14.4
122	15.9	13.9	20.9



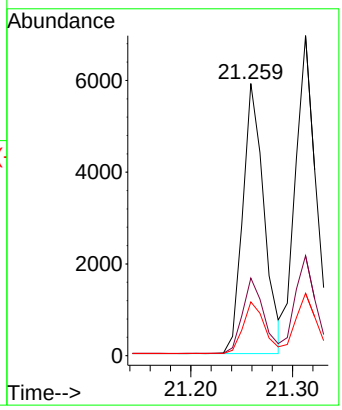


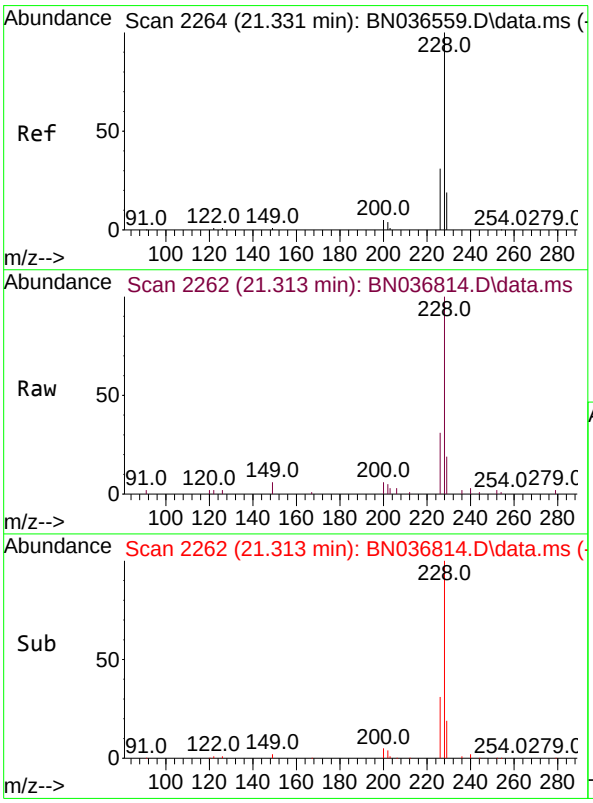
#32
Benzo(a)anthracene
Concen: 0.514 ng
RT: 21.259 min Scan# 2
Delta R.T. -0.027 min
Lab File: BN036814.D
Acq: 31 Mar 2025 14:16

Instrument :
BNA_N
ClientSampleId :
PB167269BSD

Tgt Ion:228 Resp: 8542

Ion	Ratio	Lower	Upper
228	100		
226	28.5	22.5	33.7
229	19.8	16.6	25.0

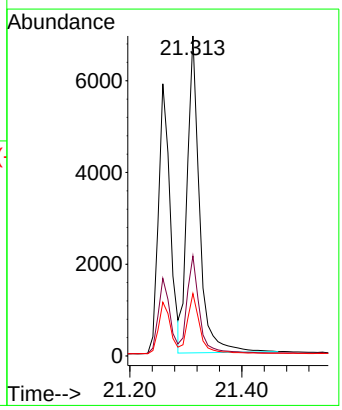


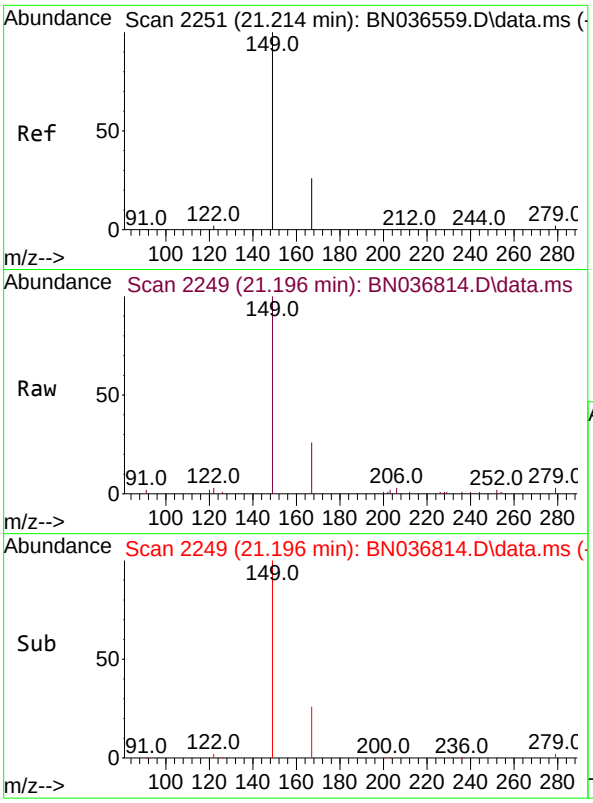


#33
Chrysene
Concen: 0.580 ng
RT: 21.313 min Scan# 2262
Delta R.T. -0.018 min
Lab File: BN036814.D
Acq: 31 Mar 2025 14:16

Tgt Ion:228 Resp: 10531

Ion	Ratio	Lower	Upper
228	100		
226	31.3	25.3	37.9
229	19.5	15.8	23.8



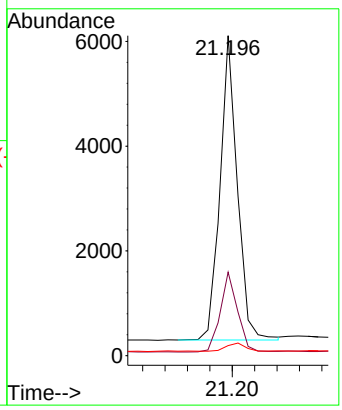


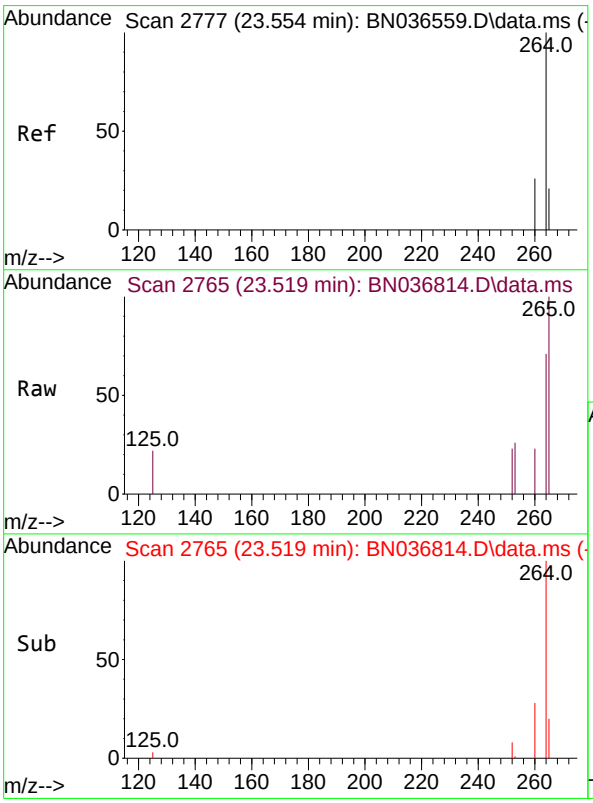
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.526 ng
RT: 21.196 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036814.D
Acq: 31 Mar 2025 14:16

Instrument :
BNA_N
ClientSampleId :
PB167269BSD

Tgt Ion:149 Resp: 6222

Ion	Ratio	Lower	Upper
149	100		
167	26.2	20.7	31.1
279	2.8	3.6	5.4#

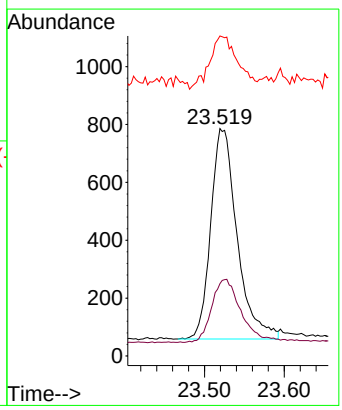


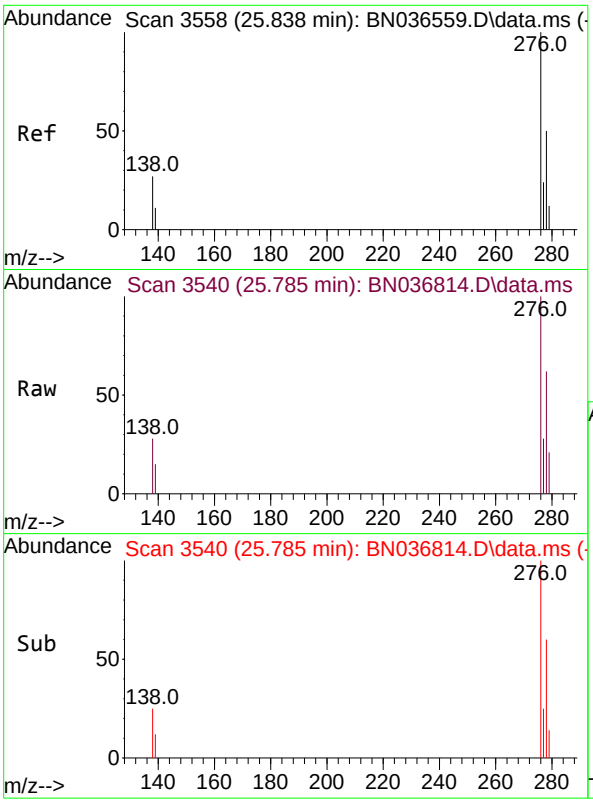


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.519 min Scan# 2765
Delta R.T. -0.035 min
Lab File: BN036814.D
Acq: 31 Mar 2025 14:16

Tgt Ion:264 Resp: 1670

Ion	Ratio	Lower	Upper
264	100		
260	31.8	22.6	33.8
265	140.7	88.1	132.1#



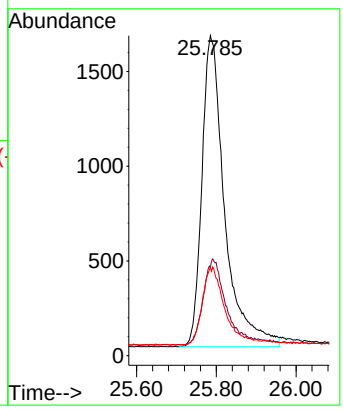


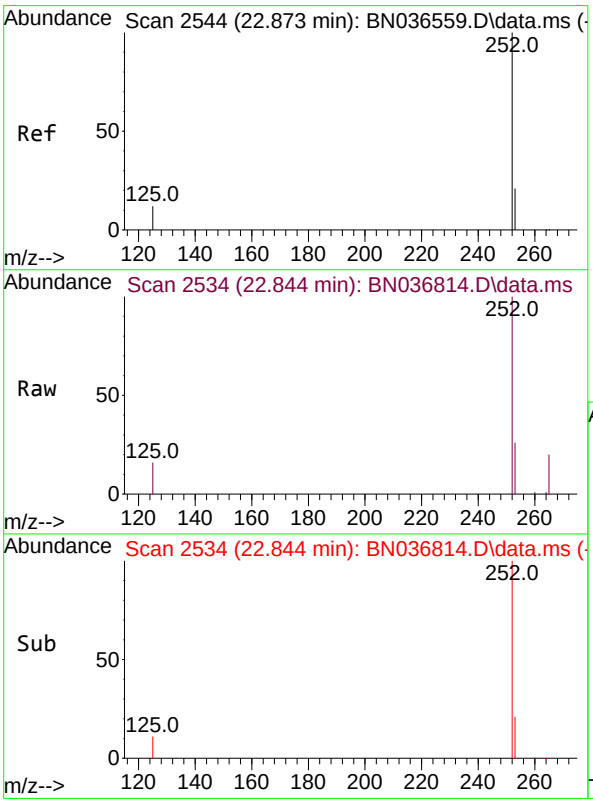
#36
Indeno(1,2,3-cd)pyrene
Concen: 1.081 ng
RT: 25.785 min Scan# 3
Delta R.T. -0.053 min
Lab File: BN036814.D
Acq: 31 Mar 2025 14:16

Instrument :
BNA_N
ClientSampleId :
PB167269BSD

Tgt Ion:276 Resp: 6515

Ion	Ratio	Lower	Upper
276	100		
138	27.2	23.4	35.2
277	24.3	20.0	30.0

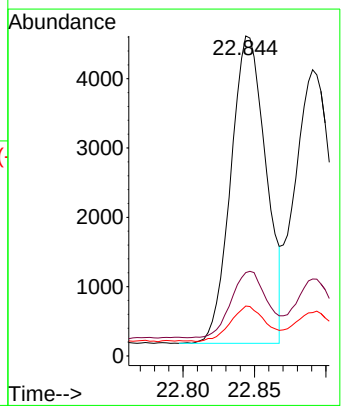


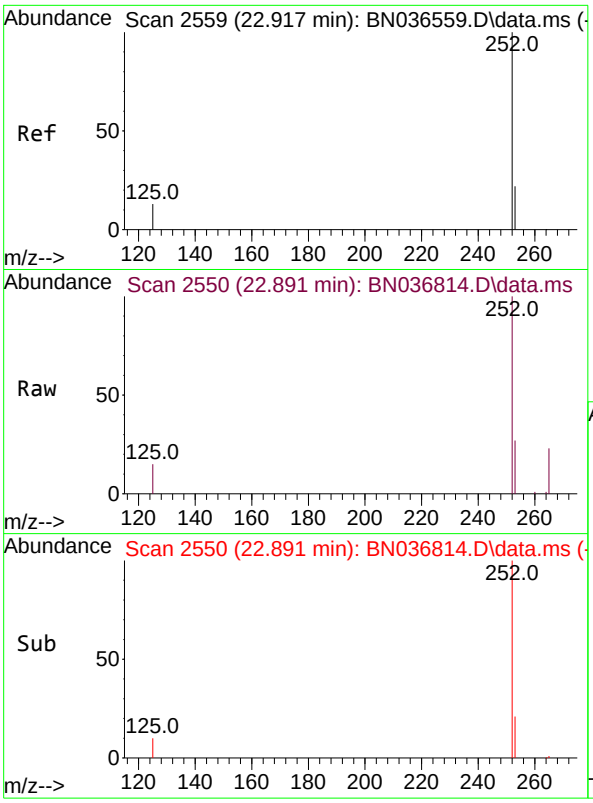


#37
Benzo(b)fluoranthene
Concen: 1.252 ng
RT: 22.844 min Scan# 2534
Delta R.T. -0.029 min
Lab File: BN036814.D
Acq: 31 Mar 2025 14:16

Tgt Ion:252 Resp: 7608

Ion	Ratio	Lower	Upper
252	100		
253	26.1	23.9	35.9
125	15.6	17.4	26.2#



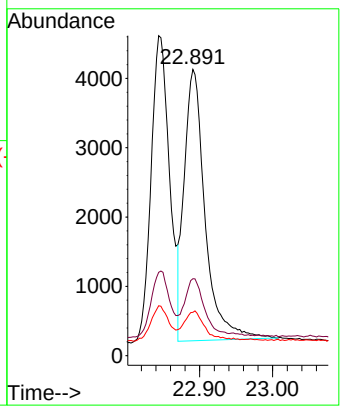


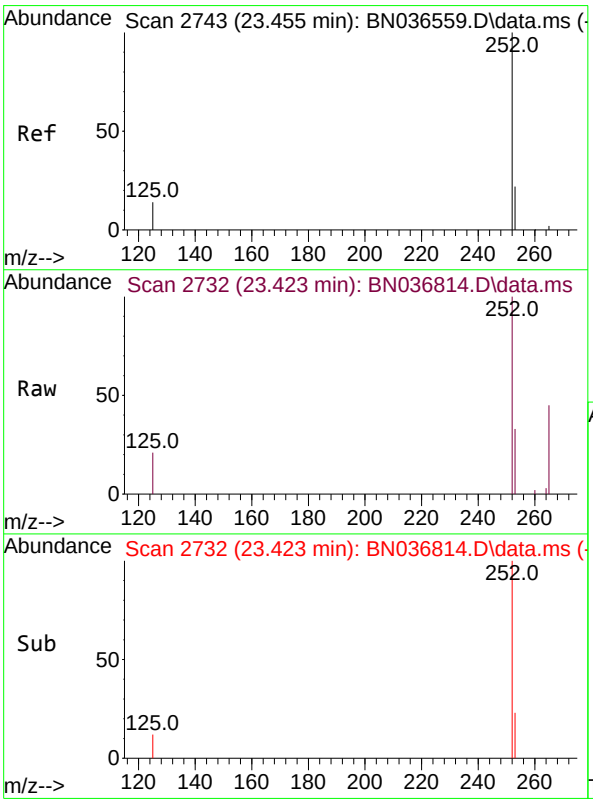
#38
Benzo(k)fluoranthene
Concen: 1.220 ng
RT: 22.891 min Scan# 2
Delta R.T. -0.026 min
Lab File: BN036814.D
Acq: 31 Mar 2025 14:16

Instrument :
BNA_N
ClientSampleId :
PB167269BSD

Tgt Ion:252 Resp: 7777

Ion	Ratio	Lower	Upper
252	100		
253	26.9	24.6	36.8
125	15.2	17.8	26.8#

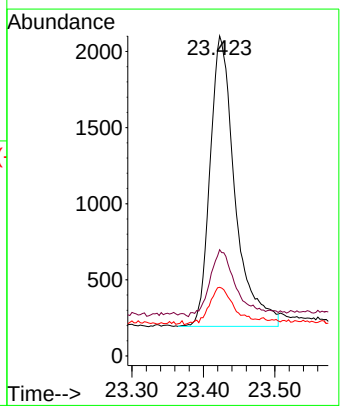


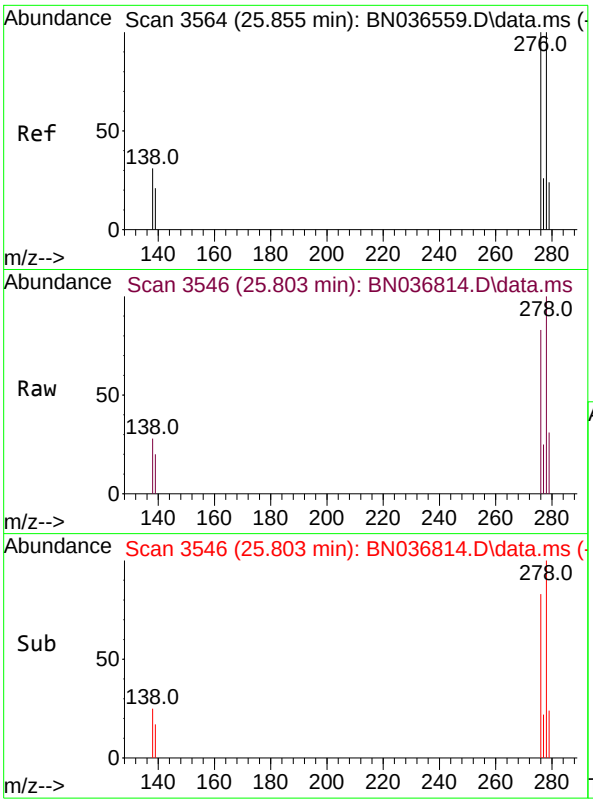


#39
Benzo(a)pyrene
Concen: 0.902 ng
RT: 23.423 min Scan# 2732
Delta R.T. -0.032 min
Lab File: BN036814.D
Acq: 31 Mar 2025 14:16

Tgt Ion:252 Resp: 4618

Ion	Ratio	Lower	Upper
252	100		
253	33.2	27.8	41.8
125	21.5	22.7	34.1#



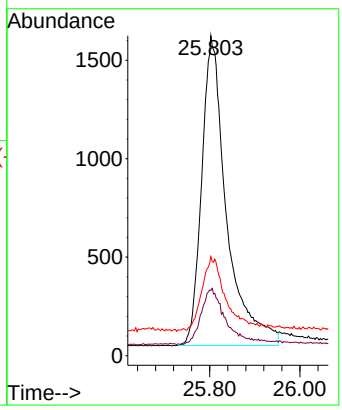


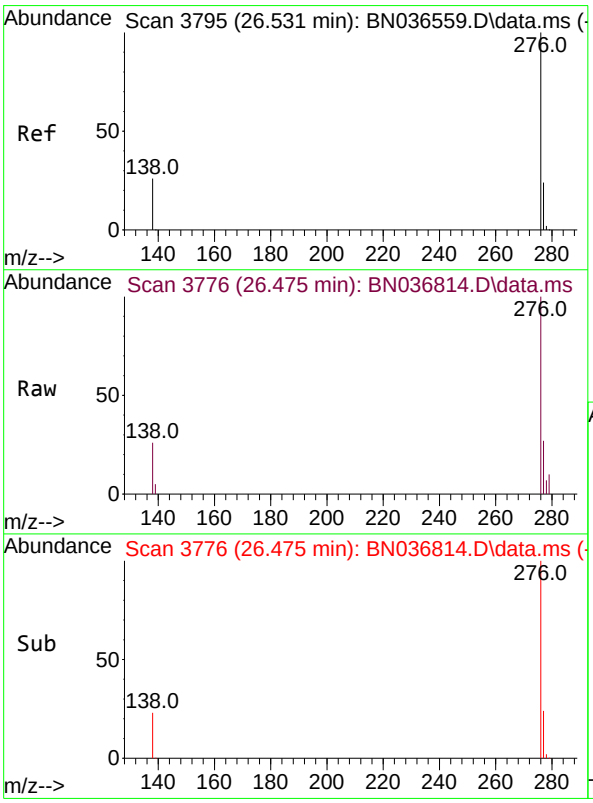
#40
Dibenzo(a,h)anthracene
Concen: 1.279 ng
RT: 25.803 min Scan# 3
Delta R.T. -0.053 min
Lab File: BN036814.D
Acq: 31 Mar 2025 14:16

Instrument :
BNA_N
ClientSampleId :
PB167269BSD

Tgt Ion:278 Resp: 6002

Ion	Ratio	Lower	Upper
278	100		
139	20.4	20.8	31.2#
279	31.0	28.8	43.2

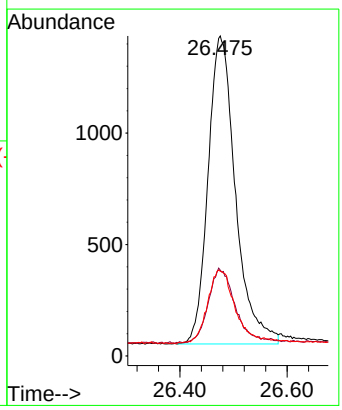




#41
Benzo(g,h,i)perylene
Concen: 0.915 ng
RT: 26.475 min Scan# 3776
Delta R.T. -0.056 min
Lab File: BN036814.D
Acq: 31 Mar 2025 14:16

Tgt Ion:276 Resp: 4911

Ion	Ratio	Lower	Upper
276	100		
277	26.8	22.2	33.4
138	26.5	24.1	36.1



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Manual Integration Report

Sequence:	BN031025	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC0.1	BN036557.D	1,4-Dioxane	anahy	3/11/2025 9:18:29 AM	Jagrut	3/11/2025 10:27:49 AM	Peak Integrated by Software
SSTDICC0.2	BN036558.D	1,4-Dioxane	anahy	3/11/2025 9:19:12 AM	Jagrut	3/11/2025 10:27:51 AM	Peak Integrated by Software
SSTDCCC0.4	BN036572.D	Benzo(k)fluoranthene	anahy	3/11/2025 9:20:59 AM	Jagrut	3/11/2025 10:27:55 AM	Peak Integrated by Software
SSTDCCC0.4	BN036572.D	Chrysene-d12	anahy	3/11/2025 9:20:59 AM	Jagrut	3/11/2025 10:27:55 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	bn032725	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC0.4	BN036736.D	Benzo(k)fluoranthene	anahy	3/28/2025 11:44:03 AM			Peak Integrated by Software
SSTDCCC0.4	BN036738.D	Benzo(k)fluoranthene	anahy	3/28/2025 11:44:53 AM			Peak Integrated by Software
SSTDCCC0.4	BN036755.D	Benzo(g,h,i)perylene	anahy	3/28/2025 11:51:02 AM			Peak Integrated by Software
SSTDCCC0.4	BN036755.D	Benzo(k)fluoranthene	anahy	3/28/2025 11:51:02 AM			Peak Integrated by Software
SSTDCCC0.4	BN036757.D	Benzo(k)fluoranthene	anahy	3/28/2025 11:57:23 AM			Peak Integrated by Software
SSTDCCC0.4	BN036771.D	Benzo(k)fluoranthene	anahy	3/31/2025 10:10:02 AM			Peak Integrated by Software

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Manual Integration Report

Sequence:	BN032825	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC0.4	BN036789.D	Benzo(k)fluoranthene	anahy	3/31/2025 12:00:29 PM	Jagrut	3/31/2025 2:10:24 PM	Peak Integrated by Software
SSTDCCC0.4	BN036789.D	Dibenzo(a,h)anthracene	anahy	3/31/2025 12:00:29 PM	Jagrut	3/31/2025 2:10:24 PM	Peak Integrated by Software
SSTDCCC0.4	BN036791.D	Benzo(k)fluoranthene	anahy	3/31/2025 12:01:09 PM	Jagrut	3/31/2025 2:10:27 PM	Peak Integrated by Software
SSTDCCC0.4	BN036807.D	Benzo(k)fluoranthene	anahy	3/31/2025 1:31:19 PM	Jagrut	3/31/2025 2:10:38 PM	Peak Integrated by Software
SSTDCCC0.4	BN036807.D	Dibenzo(a,h)anthracene	anahy	3/31/2025 1:31:19 PM	Jagrut	3/31/2025 2:10:38 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	BN033125	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC0.4	BN036809.D	Benzo(k)fluoranthene	Rahul	3/31/2025 5:32:40 PM	Jagrut	4/1/2025 10:17:11 AM	Peak Integrated by Software
SSTDCCC0.4	BN036815.D	Benzo(k)fluoranthene	Rahul	3/31/2025 5:32:48 PM	Jagrut	4/1/2025 10:17:19 AM	Peak Integrated by Software

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN031025

Review By	anahy	Review On	3/11/2025 9:36:11 AM		
Supervise By	Jagrut	Supervise On	3/11/2025 10:28:11 AM		
SubDirectory	BN031025	HP Acquire Method	BNA_N, 8270_SIM	HP Processing Method	bn031025

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731
CCC	SP6735
Internal Standard/PEM	SP6740,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN036556.D	10 Mar 2025 11:03	RC/JU	Ok
2	SSTDICC0.1	BN036557.D	10 Mar 2025 11:42	RC/JU	Ok,M
3	SSTDICC0.2	BN036558.D	10 Mar 2025 12:18	RC/JU	Ok,M
4	SSTDICCC0.4	BN036559.D	10 Mar 2025 12:54	RC/JU	Ok
5	SSTDICC0.8	BN036560.D	10 Mar 2025 13:31	RC/JU	Ok
6	SSTDICC1.6	BN036561.D	10 Mar 2025 14:07	RC/JU	Ok
7	SSTDICC3.2	BN036562.D	10 Mar 2025 14:43	RC/JU	Ok
8	SSTDICC5.0	BN036563.D	10 Mar 2025 15:19	RC/JU	Ok
9	SSTDICV0.4	BN036564.D	10 Mar 2025 16:38	RC/JU	Ok
10	PB167057BL	BN036565.D	10 Mar 2025 17:14	RC/JU	Ok
11	Q1531-03	BN036566.D	10 Mar 2025 17:50	RC/JU	Ok
12	Q1531-04	BN036567.D	10 Mar 2025 18:26	RC/JU	Ok
13	Q1531-05	BN036568.D	10 Mar 2025 19:02	RC/JU	Ok
14	Q1531-06	BN036569.D	10 Mar 2025 19:38	RC/JU	Ok,M
15	Q1531-13	BN036570.D	10 Mar 2025 20:14	RC/JU	Ok
16	Q1531-14	BN036571.D	10 Mar 2025 20:50	RC/JU	Ok
17	SSTDCCC0.4	BN036572.D	10 Mar 2025 21:26	RC/JU	Ok,M

M : Manual Integration

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN032725

Review By	anahy	Review On	3/31/2025 10:10:21 AM		
Supervise By	Jagrut	Supervise On	4/1/2025 2:23:07 PM		
SubDirectory	BN032725	HP Acquire Method	BNA_N, 8270_SIM	HP Processing Method	bn031025

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731
CCC	SP6735
Internal Standard/PEM	SP6740,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN036728.D	27 Mar 2025 09:10	RC/JU	Ok
2	SSTDCCC0.4	BN036729.D	27 Mar 2025 09:49	RC/JU	Ok
3	PB167232BL	BN036730.D	27 Mar 2025 10:25	RC/JU	Ok
4	Q1608-01	BN036731.D	27 Mar 2025 11:01	RC/JU	Ok
5	Q1608-02	BN036732.D	27 Mar 2025 11:38	RC/JU	Ok
6	Q1621-01	BN036733.D	27 Mar 2025 12:14	RC/JU	Dilution
7	Q1621-02	BN036734.D	27 Mar 2025 12:50	RC/JU	ReRun
8	Q1621-03	BN036735.D	27 Mar 2025 13:26	RC/JU	ReRun
9	SSTDCCC0.4	BN036736.D	27 Mar 2025 14:02	RC/JU	Ok,NS
10	DFTPP	BN036737.D	27 Mar 2025 14:38	RC/JU	Ok
11	SSTDCCC0.4	BN036738.D	27 Mar 2025 15:38	RC/JU	Ok,NS
12	PB167251BL	BN036739.D	27 Mar 2025 16:14	RC/JU	Ok
13	Q1621-02	BN036740.D	27 Mar 2025 16:50	RC/JU	Ok
14	Q1621-03	BN036741.D	27 Mar 2025 17:26	RC/JU	Ok
15	Q1621-01DL	BN036742.D	27 Mar 2025 18:02	RC/JU	Ok
16	Q1608-09	BN036743.D	27 Mar 2025 18:39	RC/JU	Ok
17	Q1608-10	BN036744.D	27 Mar 2025 19:15	RC/JU	Dilution
18	Q1608-03	BN036745.D	27 Mar 2025 19:51	RC/JU	Ok,NS
19	Q1608-04	BN036746.D	27 Mar 2025 20:27	RC/JU	Ok
20	Q1608-14	BN036747.D	27 Mar 2025 21:03	RC/JU	Dilution
21	Q1608-15	BN036748.D	27 Mar 2025 21:39	RC/JU	Dilution

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN032725

Review By	anahy	Review On	3/31/2025 10:10:21 AM		
Supervise By	Jagrut	Supervise On	4/1/2025 2:23:07 PM		
SubDirectory	BN032725	HP Acquire Method	BNA_N, 8270_SIM	HP Processing Method	bn031025

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731
CCC	SP6735
Internal Standard/PEM	SP6740,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q1608-16	BN036749.D	27 Mar 2025 22:15	RC/JU	Ok
23	Q1608-17	BN036750.D	27 Mar 2025 22:51	RC/JU	Dilution
24	Q1608-18	BN036751.D	27 Mar 2025 23:27	RC/JU	Dilution
25	Q1608-19	BN036752.D	28 Mar 2025 00:03	RC/JU	Ok
26	Q1608-20	BN036753.D	28 Mar 2025 00:39	RC/JU	Ok,NS
27	PB167232BS	BN036754.D	28 Mar 2025 01:16	RC/JU	Ok,NS
28	SSTDCCC0.4	BN036755.D	28 Mar 2025 01:52	RC/JU	Ok,NS
29	DFTPP	BN036756.D	28 Mar 2025 03:07	RC/JU	Ok
30	SSTDCCC0.4	BN036757.D	28 Mar 2025 03:46	RC/JU	Ok,NS
31	PB167269BL	BN036758.D	28 Mar 2025 04:22	RC/JU	Ok
32	Q1608-21	BN036759.D	28 Mar 2025 04:58	RC/JU	Ok
33	Q1608-22	BN036760.D	28 Mar 2025 05:34	RC/JU	Ok
34	Q1608-23	BN036761.D	28 Mar 2025 06:10	RC/JU	Dilution
35	Q1608-24	BN036762.D	28 Mar 2025 06:46	RC/JU	Ok
36	Q1608-25	BN036763.D	28 Mar 2025 07:22	RC/JU	Ok,NS
37	Q1608-26	BN036764.D	28 Mar 2025 07:58	RC/JU	Ok
38	Q1608-11	BN036765.D	28 Mar 2025 08:34	RC/JU	Ok
39	Q1608-12MS	BN036766.D	28 Mar 2025 10:22	RC/JU	Ok,NS
40	Q1608-13MSD	BN036767.D	28 Mar 2025 10:58	RC/JU	Ok
41	Q1629-03	BN036768.D	28 Mar 2025 11:34	RC/JU	Ok
42	Q1629-04MS	BN036769.D	28 Mar 2025 12:47	RC/JU	Ok,NS
43	Q1629-05MSD	BN036770.D	28 Mar 2025 13:22	RC/JU	Ok,NS
44	SSTDCCC0.4	BN036771.D	28 Mar 2025 13:58	RC/JU	Ok,NS

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN032725

Review By	anahy	Review On	3/31/2025 10:10:21 AM		
Supervise By	Jagrut	Supervise On	4/1/2025 2:23:07 PM		
SubDirectory	BN032725	HP Acquire Method	BNA_N, 8270_SIM	HP Processing Method	bn031025

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731
CCC	SP6735
Internal Standard/PEM	SP6740,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

M : Manual Integration

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN032825

Review By	anahy	Review On	3/31/2025 1:32:07 PM		
Supervise By	Jagrut	Supervise On	3/31/2025 2:10:59 PM		
SubDirectory	BN032825	HP Acquire Method	BNA_N, 8270_SIM	HP Processing Method	bn031025

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731
CCC	SP6735
Internal Standard/PEM	SP6740,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN036772.D	28 Mar 2025 14:34	RC/JU	Ok
2	SSTDCCC0.4	BN036773.D	28 Mar 2025 15:14	RC/JU	Ok
3	PB167159BL	BN036774.D	28 Mar 2025 15:49	RC/JU	Ok
4	Q1608-10DL	BN036775.D	28 Mar 2025 16:25	RC/JU	Ok
5	Q1608-14DL	BN036776.D	28 Mar 2025 17:02	RC/JU	Ok
6	Q1608-15DL	BN036777.D	28 Mar 2025 17:38	RC/JU	Ok
7	Q1608-17DL	BN036778.D	28 Mar 2025 18:14	RC/JU	Ok
8	Q1608-18DL	BN036779.D	28 Mar 2025 18:50	RC/JU	Ok
9	Q1608-23DL	BN036780.D	28 Mar 2025 19:26	RC/JU	Ok
10	Q1608-27	BN036781.D	28 Mar 2025 20:02	RC/JU	Ok
11	Q1608-28	BN036782.D	28 Mar 2025 20:38	RC/JU	Ok,M
12	Q1608-05	BN036783.D	28 Mar 2025 21:14	RC/JU	Ok
13	Q1608-06	BN036784.D	28 Mar 2025 21:51	RC/JU	Ok
14	Q1608-07	BN036785.D	28 Mar 2025 22:26	RC/JU	Ok
15	Q1608-08	BN036786.D	28 Mar 2025 23:02	RC/JU	Ok
16	PB167251BS	BN036787.D	28 Mar 2025 23:38	RC/JU	Ok,M
17	PB167251BSD	BN036788.D	29 Mar 2025 00:14	RC/JU	Ok,M
18	SSTDCCC0.4	BN036789.D	29 Mar 2025 00:50	RC/JU	Ok,M
19	DFTPP	BN036790.D	29 Mar 2025 01:26	RC/JU	Ok
20	SSTDCCC0.4	BN036791.D	29 Mar 2025 02:44	RC/JU	Ok,M
21	PB167295BL	BN036792.D	29 Mar 2025 03:20	RC/JU	Ok

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN032825

Review By	anahy	Review On	3/31/2025 1:32:07 PM		
Supervise By	Jagrut	Supervise On	3/31/2025 2:10:59 PM		
SubDirectory	BN032825	HP Acquire Method	BNA_N, 8270_SIM	HP Processing Method	bn031025

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731
CCC	SP6735
Internal Standard/PEM	SP6740,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q1620-04	BN036793.D	29 Mar 2025 03:56	RC/JU	Ok
23	Q1620-01	BN036794.D	29 Mar 2025 04:32	RC/JU	Ok
24	Q1620-02	BN036795.D	29 Mar 2025 05:08	RC/JU	Ok
25	Q1620-03	BN036796.D	29 Mar 2025 05:43	RC/JU	Ok
26	Q1629-01	BN036797.D	29 Mar 2025 06:19	RC/JU	Ok
27	Q1629-02	BN036798.D	29 Mar 2025 06:56	RC/JU	Ok
28	Q1629-08	BN036799.D	29 Mar 2025 07:32	RC/JU	Ok
29	Q1629-09	BN036800.D	29 Mar 2025 08:08	RC/JU	Ok
30	Q1629-10	BN036801.D	29 Mar 2025 08:44	RC/JU	Ok
31	Q1629-11	BN036802.D	29 Mar 2025 09:20	RC/JU	Ok
32	Q1629-07	BN036803.D	29 Mar 2025 09:57	RC/JU	Ok,M
33	PB167295BS	BN036804.D	29 Mar 2025 10:33	RC/JU	Ok,M
34	PB167269BSD	BN036805.D	29 Mar 2025 11:09	RC/JU	Not Ok
35	PB167269BS	BN036806.D	29 Mar 2025 11:45	RC/JU	Ok
36	SSTDCCC0.4	BN036807.D	29 Mar 2025 12:21	RC/JU	Ok,M

M : Manual Integration

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN033125

Review By	Rahul	Review On	3/31/2025 5:33:01 PM		
Supervise By	Jagrut	Supervise On	4/1/2025 10:28:33 AM		
SubDirectory	BN033125	HP Acquire Method	BNA_N, 8270_SIM	HP Processing Method	bn031025

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731
CCC	SP6735
Internal Standard/PEM	SP6740,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN036808.D	31 Mar 2025 10:00	RC/JU	Ok
2	SSTDCCC0.4	BN036809.D	31 Mar 2025 10:39	RC/JU	Ok,M
3	PB167251BL	BN036810.D	31 Mar 2025 11:15	RC/JU	Ok
4	Q1629-14	BN036811.D	31 Mar 2025 11:51	RC/JU	Ok
5	Q1629-15MS	BN036812.D	31 Mar 2025 13:04	RC/JU	Ok,M
6	Q1629-16MSD	BN036813.D	31 Mar 2025 13:40	RC/JU	Ok,M
7	PB167269BSD	BN036814.D	31 Mar 2025 14:16	RC/JU	Ok
8	SSTDCCC0.4	BN036815.D	31 Mar 2025 15:08	RC/JU	Ok,M

M : Manual Integration

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN031025

Review By	anahy	Review On	3/11/2025 9:36:11 AM	
Supervise By	Jagrut	Supervise On	3/11/2025 10:28:11 AM	
SubDirectory	BN031025	HP Acquire Method	BNA_N, 8270_HP Processing Method	bn031025

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731
CCC	SP6735
Internal Standard/PEM	SP6740,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN036556.D	10 Mar 2025 11:03		RC/JU	Ok
2	SSTDICC0.1	SSTDICC0.1	BN036557.D	10 Mar 2025 11:42	Compound #20 removed.	RC/JU	Ok,M
3	SSTDICC0.2	SSTDICC0.2	BN036558.D	10 Mar 2025 12:18		RC/JU	Ok,M
4	SSTDICCC0.4	SSTDICCC0.4	BN036559.D	10 Mar 2025 12:54		RC/JU	Ok
5	SSTDICC0.8	SSTDICC0.8	BN036560.D	10 Mar 2025 13:31		RC/JU	Ok
6	SSTDICC1.6	SSTDICC1.6	BN036561.D	10 Mar 2025 14:07	Compound #20 kept on QR.	RC/JU	Ok
7	SSTDICC3.2	SSTDICC3.2	BN036562.D	10 Mar 2025 14:43	Method is good for DOD.	RC/JU	Ok
8	SSTDICC5.0	SSTDICC5.0	BN036563.D	10 Mar 2025 15:19		RC/JU	Ok
9	SSTDICV0.4	ICVBN031025	BN036564.D	10 Mar 2025 16:38		RC/JU	Ok
10	PB167057BL	PB167057BL	BN036565.D	10 Mar 2025 17:14		RC/JU	Ok
11	Q1531-03	RE122D1-20250305	BN036566.D	10 Mar 2025 17:50		RC/JU	Ok
12	Q1531-04	RE126D1-20250306	BN036567.D	10 Mar 2025 18:26		RC/JU	Ok
13	Q1531-05	RE126D2-20250306	BN036568.D	10 Mar 2025 19:02		RC/JU	Ok
14	Q1531-06	DUP01-20250306	BN036569.D	10 Mar 2025 19:38		RC/JU	Ok,M
15	Q1531-13	RE108D1-20250306	BN036570.D	10 Mar 2025 20:14		RC/JU	Ok
16	Q1531-14	RE105D1-20250306	BN036571.D	10 Mar 2025 20:50		RC/JU	Ok
17	SSTDCCC0.4	SSTDCCC0.4EC	BN036572.D	10 Mar 2025 21:26		RC/JU	Ok,M

M : Manual Integration

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN032725

Review By	anahy	Review On	3/31/2025 10:10:21 AM	
Supervise By	Jagrut	Supervise On	4/1/2025 2:23:07 PM	
SubDirectory	BN032725	HP Acquire Method	BNA_N, 8270_HP Processing Method	bn031025

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731
CCC	SP6735
Internal Standard/PEM	SP6740,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN036728.D	27 Mar 2025 09:10		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN036729.D	27 Mar 2025 09:49		RC/JU	Ok
3	PB167232BL	PB167232BL	BN036730.D	27 Mar 2025 10:25		RC/JU	Ok
4	Q1608-01	TT172S1-20250317	BN036731.D	27 Mar 2025 11:01		RC/JU	Ok
5	Q1608-02	RE139D1-20250317	BN036732.D	27 Mar 2025 11:38		RC/JU	Ok
6	Q1621-01	RW5-SP100-20250320	BN036733.D	27 Mar 2025 12:14	Internal Standard Fail, need 5X Dilution	RC/JU	Dilution
7	Q1621-02	RW5-SP201-20250320	BN036734.D	27 Mar 2025 12:50	Internal Standard Fail	RC/JU	ReRun
8	Q1621-03	RW5-SP303-20250320	BN036735.D	27 Mar 2025 13:26	Internal Standard Fail	RC/JU	ReRun
9	SSTDCCC0.4	SSTDCCC0.4EC	BN036736.D	27 Mar 2025 14:02		RC/JU	Ok,NS
10	DFTPP	DFTPP	BN036737.D	27 Mar 2025 14:38		RC/JU	Ok
11	SSTDCCC0.4	SSTDCCC0.4	BN036738.D	27 Mar 2025 15:38		RC/JU	Ok,NS
12	PB167251BL	PB167251BL	BN036739.D	27 Mar 2025 16:14		RC/JU	Ok
13	Q1621-02	RW5-SP201-20250320	BN036740.D	27 Mar 2025 16:50		RC/JU	Ok
14	Q1621-03	RW5-SP303-20250320	BN036741.D	27 Mar 2025 17:26		RC/JU	Ok
15	Q1621-01DL	RW5-SP100-20250320	BN036742.D	27 Mar 2025 18:02		RC/JU	Ok
16	Q1608-09	GM38-RW3-MW1-2025	BN036743.D	27 Mar 2025 18:39		RC/JU	Ok
17	Q1608-10	DUP08-20250318	BN036744.D	27 Mar 2025 19:15	Need 2X Dilution	RC/JU	Dilution

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN032725

Review By	anahy	Review On	3/31/2025 10:10:21 AM	
Supervise By	Jagrut	Supervise On	4/1/2025 2:23:07 PM	
SubDirectory	BN032725	HP Acquire Method	BNA_N, 8270_HP Processing Method	bn031025

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731
CCC	SP6735
Internal Standard/PEM	SP6740,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	Q1608-03	RE139D2-20250317	BN036745.D	27 Mar 2025 19:51		RC/JU	Ok,NS
19	Q1608-04	TT205S1-20250317	BN036746.D	27 Mar 2025 20:27		RC/JU	Ok
20	Q1608-14	RE132D2-20250318	BN036747.D	27 Mar 2025 21:03	Need 2X Dilution	RC/JU	Dilution
21	Q1608-15	RE132D3-20250318	BN036748.D	27 Mar 2025 21:39	Need 2X Dilution	RC/JU	Dilution
22	Q1608-16	RE132D4-20250318	BN036749.D	27 Mar 2025 22:15		RC/JU	Ok
23	Q1608-17	RE132D5-20250318	BN036750.D	27 Mar 2025 22:51	Need 2X Dilution	RC/JU	Dilution
24	Q1608-18	RE132D6-20250318	BN036751.D	27 Mar 2025 23:27	Need 2X Dilution	RC/JU	Dilution
25	Q1608-19	RE132D7-20250318	BN036752.D	28 Mar 2025 00:03		RC/JU	Ok
26	Q1608-20	RE117D2-20250319	BN036753.D	28 Mar 2025 00:39		RC/JU	Ok,NS
27	PB167232BS	PB167232BS	BN036754.D	28 Mar 2025 01:16		RC/JU	Ok,NS
28	SSTDCCC0.4	SSTDCCC0.4EC	BN036755.D	28 Mar 2025 01:52		RC/JU	Ok,NS
29	DFTPP	DFTPP	BN036756.D	28 Mar 2025 03:07		RC/JU	Ok
30	SSTDCCC0.4	SSTDCCC0.4	BN036757.D	28 Mar 2025 03:46		RC/JU	Ok,NS
31	PB167269BL	PB167269BL	BN036758.D	28 Mar 2025 04:22		RC/JU	Ok
32	Q1608-21	TT101D2-20250319	BN036759.D	28 Mar 2025 04:58		RC/JU	Ok
33	Q1608-22	TT161S1-20250319	BN036760.D	28 Mar 2025 05:34		RC/JU	Ok
34	Q1608-23	TT189D2-20250319	BN036761.D	28 Mar 2025 06:10	Need 2X Dilution	RC/JU	Dilution
35	Q1608-24	RW8-MW01S-2025031	BN036762.D	28 Mar 2025 06:46		RC/JU	Ok
36	Q1608-25	RW8-MW01D1-202503	BN036763.D	28 Mar 2025 07:22		RC/JU	Ok,NS

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN032725

Review By	anahy	Review On	3/31/2025 10:10:21 AM	
Supervise By	Jagrut	Supervise On	4/1/2025 2:23:07 PM	
SubDirectory	BN032725	HP Acquire Method	BNA_N, 8270_HP Processing Method	bn031025

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731
CCC	SP6735
Internal Standard/PEM	SP6740,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

37	Q1608-26	RW8-MW01D2-202503	BN036764.D	28 Mar 2025 07:58		RC/JU	Ok
38	Q1608-11	RE132D1-20250318	BN036765.D	28 Mar 2025 08:34		RC/JU	Ok
39	Q1608-12MS	RE132D1-20250318MS	BN036766.D	28 Mar 2025 10:22		RC/JU	Ok,NS
40	Q1608-13MSD	RE132D1-20250318MS	BN036767.D	28 Mar 2025 10:58		RC/JU	Ok
41	Q1629-03	TT188S1-20250320	BN036768.D	28 Mar 2025 11:34		RC/JU	Ok
42	Q1629-04MS	TT188S1-20250320MS	BN036769.D	28 Mar 2025 12:47		RC/JU	Ok,NS
43	Q1629-05MSD	TT188S1-20250320MS	BN036770.D	28 Mar 2025 13:22		RC/JU	Ok,NS
44	SSTDCCC0.4	SSTDCCC0.4EC	BN036771.D	28 Mar 2025 13:58		RC/JU	Ok,NS

M : Manual Integration

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN032825

Review By	anahy	Review On	3/31/2025 1:32:07 PM	
Supervise By	Jagrut	Supervise On	3/31/2025 2:10:59 PM	
SubDirectory	BN032825	HP Acquire Method	BNA_N, 8270_HP Processing Method	bn031025

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731
CCC	SP6735
Internal Standard/PEM	SP6740,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN036772.D	28 Mar 2025 14:34		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN036773.D	28 Mar 2025 15:14		RC/JU	Ok
3	PB167159BL	PB167159BL	BN036774.D	28 Mar 2025 15:49		RC/JU	Ok
4	Q1608-10DL	DUP08-20250318DL	BN036775.D	28 Mar 2025 16:25		RC/JU	Ok
5	Q1608-14DL	RE132D2-20250318DL	BN036776.D	28 Mar 2025 17:02		RC/JU	Ok
6	Q1608-15DL	RE132D3-20250318DL	BN036777.D	28 Mar 2025 17:38		RC/JU	Ok
7	Q1608-17DL	RE132D5-20250318DL	BN036778.D	28 Mar 2025 18:14		RC/JU	Ok
8	Q1608-18DL	RE132D6-20250318DL	BN036779.D	28 Mar 2025 18:50		RC/JU	Ok
9	Q1608-23DL	TT189D2-20250319DL	BN036780.D	28 Mar 2025 19:26		RC/JU	Ok
10	Q1608-27	RW8-MW01D3-202503	BN036781.D	28 Mar 2025 20:02		RC/JU	Ok
11	Q1608-28	DUP09-20250319	BN036782.D	28 Mar 2025 20:38		RC/JU	Ok,M
12	Q1608-05	DUP07-20250317	BN036783.D	28 Mar 2025 21:14		RC/JU	Ok
13	Q1608-06	TT163S1-20250317	BN036784.D	28 Mar 2025 21:51		RC/JU	Ok
14	Q1608-07	RW11-MW01S-202503	BN036785.D	28 Mar 2025 22:26		RC/JU	Ok
15	Q1608-08	RW11-MW01I-2025031	BN036786.D	28 Mar 2025 23:02		RC/JU	Ok
16	PB167251BS	PB167251BS	BN036787.D	28 Mar 2025 23:38		RC/JU	Ok,M
17	PB167251BSD	PB167251BSD	BN036788.D	29 Mar 2025 00:14		RC/JU	Ok,M
18	SSTDCCC0.4	SSTDCCC0.4EC	BN036789.D	29 Mar 2025 00:50		RC/JU	Ok,M

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN032825

Review By	anahy	Review On	3/31/2025 1:32:07 PM	
Supervise By	Jagrut	Supervise On	3/31/2025 2:10:59 PM	
SubDirectory	BN032825	HP Acquire Method	BNA_N, 8270_HP Processing Method	bn031025

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731
CCC	SP6735
Internal Standard/PEM	SP6740,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	DFTPP	DFTPP	BN036790.D	29 Mar 2025 01:26		RC/JU	Ok
20	SSTDCCC0.4	SSTDCCC0.4	BN036791.D	29 Mar 2025 02:44		RC/JU	Ok,M
21	PB167295BL	PB167295BL	BN036792.D	29 Mar 2025 03:20		RC/JU	Ok
22	Q1620-04	RW7-SP303-20250320	BN036793.D	29 Mar 2025 03:56		RC/JU	Ok
23	Q1620-01	RW7-SP100-20250320	BN036794.D	29 Mar 2025 04:32		RC/JU	Ok
24	Q1620-02	RW7-SP201-20250320	BN036795.D	29 Mar 2025 05:08		RC/JU	Ok
25	Q1620-03	RW7-SP302-20250320	BN036796.D	29 Mar 2025 05:43		RC/JU	Ok
26	Q1629-01	TT174I1-20250320	BN036797.D	29 Mar 2025 06:19		RC/JU	Ok
27	Q1629-02	TT162S1-20250320	BN036798.D	29 Mar 2025 06:56		RC/JU	Ok
28	Q1629-08	RW09-MW01D2-20250	BN036799.D	29 Mar 2025 07:32		RC/JU	Ok
29	Q1629-09	RW09-MW01D3-20250	BN036800.D	29 Mar 2025 08:08		RC/JU	Ok
30	Q1629-10	TT150S1-20250320	BN036801.D	29 Mar 2025 08:44		RC/JU	Ok
31	Q1629-11	FB03-20250321	BN036802.D	29 Mar 2025 09:20		RC/JU	Ok
32	Q1629-07	RW09-MW01D1-20250	BN036803.D	29 Mar 2025 09:57		RC/JU	Ok,M
33	PB167295BS	PB167295BS	BN036804.D	29 Mar 2025 10:33		RC/JU	Ok,M
34	PB167269BSD	PB167269BSD	BN036805.D	29 Mar 2025 11:09	Surrogate Fail	RC/JU	Not Ok
35	PB167269BS	PB167269BS	BN036806.D	29 Mar 2025 11:45		RC/JU	Ok
36	SSTDCCC0.4	SSTDCCC0.4EC	BN036807.D	29 Mar 2025 12:21		RC/JU	Ok,M

M : Manual Integration

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN033125

Review By	Rahul	Review On	3/31/2025 5:33:01 PM	
Supervise By	Jagrut	Supervise On	4/1/2025 10:28:33 AM	
SubDirectory	BN033125	HP Acquire Method	BNA_N, 8270_HP Processing Method	bn031025

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731
CCC	SP6735
Internal Standard/PEM	SP6740,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN036808.D	31 Mar 2025 10:00		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN036809.D	31 Mar 2025 10:39		RC/JU	Ok,M
3	PB167251BL	PB167251BL	BN036810.D	31 Mar 2025 11:15		RC/JU	Ok
4	Q1629-14	RW09-MW01S-202503	BN036811.D	31 Mar 2025 11:51		RC/JU	Ok
5	Q1629-15MS	RW09-MW01S-202503	BN036812.D	31 Mar 2025 13:04		RC/JU	Ok,M
6	Q1629-16MSD	RW09-MW01S-202503	BN036813.D	31 Mar 2025 13:40		RC/JU	Ok,M
7	PB167269BSD	PB167269BSD	BN036814.D	31 Mar 2025 14:16		RC/JU	Ok
8	SSTDCCC0.4	SSTDCCC0.4EC	BN036815.D	31 Mar 2025 15:08		RC/JU	Ok,M

M : Manual Integration

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EXTRACTION LOGPAGE

PB167269

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: RJ

Filter By: RJ

pH Meter ID: N/A

Hood ID: 4,5,6,7

Extraction Start Date : 03/24/2025

Extraction Start Time : 08:15

Extraction End Date : 03/24/2025

Extraction End Time : 13:10

Concentration By: EH

Supervisor By : rajesh

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	SP6739
Surrogate	1.0ML	0.4 PPM	SP6755
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	E3904
Baked Na2SO4	N/A	EP2595
10N NaoH	N/A	EP2559
H2SO4 1:1	N/A	EP2565
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial lot# 2210673. 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
03/24/25	RP (Ext. Lab)	AE/SVOC
13:15	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB167269

Analytical Method: M3510C,3580A-Extraction SVOC-20

Concentration Date: 03/24/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB167269BL	SBLK269	SVOC-SIMGroup1	1000	6	ritesh	rajesh	1			SEP-01
PB167269BS	SLCS269	SVOC-SIMGroup1	1000	6	ritesh	rajesh	1			2
PB167269BSD	SLCSD269	SVOC-SIMGroup1	1000	6	ritesh	rajesh	1			3
Q1620-01	RW7-SP100-20250320	SVOC-SIMGroup1	1000	6	ritesh	rajesh	1			4
Q1620-02	RW7-SP201-20250320	SVOC-SIMGroup1	1000	6	ritesh	rajesh	1			5
Q1620-03	RW7-SP302-20250320	SVOC-SIMGroup1	990	6	ritesh	rajesh	1			6
Q1620-04	RW7-SP303-20250320	SVOC-SIMGroup1	1000	6	ritesh	rajesh	1	A		7
Q1621-01	RW5-SP100-20250320	SVOC-SIMGroup1	1000	6	ritesh	rajesh	1			8
Q1621-02	RW5-SP201-20250320	SVOC-SIMGroup1	1000	6	ritesh	rajesh	1			9
Q1621-03	RW5-SP303-20250320	SVOC-SIMGroup1	1000	6	ritesh	rajesh	1			10

3/24/25

* **Extracts relinquished on the same date as received.**

Q1621-SVOC-SIMGroup1

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1620 **WorkList ID :** 188462 **Department :** Extraction **Date :** 03-24-2025 08:10:37

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1620-01	RW7-SP100-20250320	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	I41	03/20/2025	8270-Modified
Q1620-02	RW7-SP201-20250320	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	I41	03/20/2025	8270-Modified
Q1620-03	RW7-SP302-20250320	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	I41	03/20/2025	8270-Modified
Q1620-04	RW7-SP303-20250320	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	I41	03/20/2025	8270-Modified
Q1621-01	RW5-SP100-20250320	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	I31	03/20/2025	8270-Modified
Q1621-02	RW5-SP201-20250320	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	I31	03/20/2025	8270-Modified
Q1621-03	RW5-SP303-20250320	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	I31	03/20/2025	8270-Modified

628 of 960

Date/Time 03/24/24 8:13

Raw Sample Received by: RJ (Shift Lead)

Raw Sample Relinquished by: SM

Date/Time 03/24/24 8:40

Raw Sample Received by: SM

Raw Sample Relinquished by: RJ (Shift Lead)

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Prep Standard - Chemical Standard Summary

Order ID : Q1621

Test : SVOC-SIMGroup1

Prepbatch ID : PB167269,

Sequence ID/Qc Batch ID: BN032725,BN032825,BN033125,

Standard ID :
EP2559,EP2565,EP2595,SP6682,SP6683,SP6684,SP6717,SP6730,SP6731,SP6732,SP6733,SP6734,SP6735,SP6736,SP6738,SP6739,SP6740,SP6755,SP6757,

Chemical ID :
1ul/100ul sample,E3551,E3657,E3828,E3871,E3873,E3874,E3902,E3904,M5173,S10104,S10246,S11074,S11495,S11650,S11785,S11831,S11832,S12114,S12142,S12189,S12195,S12208,S12216,S12270,S12328,S12469,S12478,S12517,S12525,S12577,S12651,S12791,S12966,W3112,

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Extractions STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1874	10 N SODIUM HYDROXIDE SOLN	EP2559	11/14/2024	05/14/2025	Rajesh Parikh	Extraction_SCALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 11/14/2024

FROM 1000.00000ml of W3112 + 400.00000gram of E3657 = Final Quantity: 1000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
314	1.1 H2SO4 SOLN	EP2565	11/20/2024	05/20/2025	Rajesh Parikh	None	None	RUPESHKUMAR SHAH 11/20/2024

FROM 1000.00000ml of M5173 + 1000.00000ml of W3112 = Final Quantity: 2000.000 ml

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Extractions STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3923	Baked Sodium Sulfate	EP2595	03/17/2025	07/01/2025	RUPESHKUMAR SHAH	Extraction_SCALE_2 (EX-SC-2)	None	Riteshkumar Patel 03/17/2025

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	SP6682	11/15/2024	05/09/2025	Jagrut Upadhyay	None	None	Yogesh Patel 12/03/2024

FROM 0.10000ml of S12328 + 4.90000ml of E3828 = Final Quantity: 5.000 ml

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SVOC STANDARD PREPARATION LOG

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	SP6683	11/15/2024	04/10/2025	Jagrut Upadhyay	None	None	Yogesh Patel 12/03/2024

FROM 0.00630ml of S12189 + 0.01280ml of S12208 + 0.03200ml of S11074 + 0.03200ml of S11831 + 0.06400ml of S12142 + 0.06400ml of S12469 + 0.06400ml of S12517 + 19.72490ml of E3828 = Final Quantity: 20.000 ml

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	SP6684	11/15/2024	04/10/2025	Jagrut Upadhyay	None	None	Yogesh Patel 12/03/2024

FROM 0.87500ml of E3828 + 0.01000ml of SP6682 + 0.12500ml of SP6683 = Final Quantity: 1.010 ml

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SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3895	50 ug/ml DFTPP 8270E	SP6717	01/15/2025	03/31/2025	Rahul Chavli	None	None	Yogesh Patel 01/16/2025

FROM 1.00000ml of S10246 + 19.00000ml of E3871 = Final Quantity: 20.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3339	8270 sim calibration stock 10ppm (CPI)	SP6730	02/04/2025	05/12/2025	Jagrut Upadhyay	None	None	Yogesh Patel 02/07/2025

FROM 0.03350ml of S10104 + 0.05000ml of S11495 + 0.12500ml of S11832 + 0.12500ml of S12114 + 0.25000ml of S12270 + 0.25000ml of S12791 + 24.16650ml of E3874 = 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	SP6731	02/04/2025	05/09/2025	Jagrut Upadhyay	None	None	Yogesh Patel 02/07/2025

FROM 0.50000ml of E3874 + 0.01000ml of SP6682 + 0.50000ml of SP6730 = 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	SP6732	02/04/2025	05/09/2025	Jagrut Upadhyay	None	None	Yogesh Patel 02/07/2025

FROM 0.68000ml of E3874 + 0.01000ml of SP6682 + 0.32000ml of SP6730 = Final Quantity: 1.010 ml

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SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3344	8270-SIM MDL-1.6PPM CALIBRATION SOLUTION	SP6733	02/04/2025	05/09/2025	Jagrut Upadhyay	None	None	Yogesh Patel 02/07/2025

FROM 0.84000ml of E3874 + 0.01000ml of SP6682 + 0.16000ml of SP6730 = 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	SP6734	02/04/2025	05/09/2025	Jagrut Upadhyay	None	None	Yogesh Patel 02/07/2025

FROM 0.92000ml of E3874 + 0.01000ml of SP6682 + 0.08000ml of SP6730 = Final Quantity: 1.010 ml

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SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3343	8270-SIM MDL-0.4PPM CALIBRATION SOLUTION	SP6735	02/04/2025	05/09/2025	Jagrut Upadhyay	None	None	Yogesh Patel 02/07/2025

FROM 0.96000ml of E3874 + 0.01000ml of SP6682 + 0.04000ml of SP6730 = 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	SP6736	02/04/2025	05/09/2025	Jagrut Upadhyay	None	None	Yogesh Patel 02/07/2025

FROM 0.50000ml of E3874 + 0.01000ml of SP6682 + 0.50000ml of SP6735 = Final Quantity: 1.010 ml

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SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3346	8270-SIM MDL-0.1PPM CALIBRATION SOLUTION	SP6738	02/04/2025	05/09/2025	Jagrut Upadhyay	None	None	Yogesh Patel 02/07/2025

FROM 0.75000ml of E3874 + 0.01000ml of SP6682 + 0.25000ml of SP6735 = Final Quantity: 1.010 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3492	8270-SIM-Spike 0.4 PPM	SP6739	02/05/2025	07/29/2025	Jagrut Upadhyay	None	None	Yogesh Patel 02/07/2025

FROM 0.00080ml of S11650 + 0.01000ml of S11785 + 0.02000ml of S12478 + 0.02000ml of S12525 + 0.02000ml of S12966 + 49.92920ml of E3873 = Final Quantity: 50.000 ml

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SVOC STANDARD PREPARATION LOG

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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3491	8270-SIM-Surrogate 0.4 PPM	SP6755	03/20/2025	07/24/2025	Jagrut Upadhyay	None	None	Rahul Chavli 04/01/2025

FROM 0.00400ml of S12195 + 0.00800ml of S12216 + 0.02000ml of S11832 + 99.96800ml of E3902 = Final Quantity: 100.000 ml

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SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3895	50 ug/ml DFTPP 8270E	SP6757	03/31/2025	09/30/2025	Rahul Chavli	None	None	Jagrut Upadhyay 04/01/2025

FROM 1.00000ml of S12577 + 19.00000ml of E3904 = Final Quantity: 20.000 ml

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	313201	07/01/2025	01/03/2024 / Rajesh	07/20/2023 / Rajesh	E3551

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19510-5 / Sodium Hydroxide Pellets 2.5 Kg, Pk of 4	23B1556310	12/31/2025	12/04/2023 / Rajesh	12/01/2023 / Rajesh	E3657

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24G0862003	05/09/2025	11/09/2024 / Rajesh	11/04/2024 / Rajesh	E3828

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24K1762005	07/14/2025	01/14/2025 / Rajesh	12/27/2024 / Rajesh	E3871

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H2762008	07/29/2025	01/29/2025 / Rajesh	01/29/2025 / Rajesh	E3873

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

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H2762008	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 / RUPESH	12/27/2024 / RUPESH	E3904

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	0000281827	06/02/2025	06/01/2022 / RUPESH	04/05/2022 / william	M5173

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-112090-04 / CLP Acid Surrogate Solution, 7500 mg/L, 1ml	440246	07/30/2025	01/30/2025 / anahy	12/09/2021 / Christian	S10104

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31615 / SV Mixture, GC/MS Tuning Mixture, CH2Cl2, 1mL,	A0182667	03/31/2025	01/15/2025 / Rahul	03/18/2022 / Christian	S10246

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0187043	05/15/2025	11/15/2024 / Jagrut	02/06/2023 / Christian	S11074

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110094-02 / CLP Base/Neutral Surrogate Solution, 5000 mg/L, 1ml	506889	05/12/2025	11/12/2024 / Jagrut	08/11/2023 / Yogesh	S11495

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555872 / Custom Standard, pentachlorophenol Std [CS 5328-5]	A0201728	07/29/2025	01/29/2025 / anahy	11/09/2023 / Yogesh	S11650

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0196453	07/29/2025	01/29/2025 / anahy	11/21/2023 / Rahul	S11785

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	33913 / SOM01.0 SIM Analysis Standard (Surrogate), 2000 PPM	A0201976	04/11/2025	10/11/2024 / Jagrut	11/21/2023 / rahul	S11831

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	05/12/2025	11/12/2024 / Jagrut	03/08/2024 / Rahul	S12114

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0203726	04/30/2025	11/14/2024 / anahy	03/15/2024 / Rahul	S12142

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ ampul	A0206206	04/10/2025	10/10/2024 / anahy	03/15/2024 / Rahul	S12189

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	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	05/15/2025	11/15/2024 / Jagrut	03/15/2024 / Rahul	S12208

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	07/30/2025	01/30/2025 / anahy	05/24/2024 / Rahul	S12270

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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	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH2Cl2, 1mL	A0206540	05/13/2025	11/13/2024 / anahy	05/30/2024 / Rahul	S12328

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0214021	05/14/2025	11/14/2024 / anahy	07/23/2024 / RAHUL	S12469

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0214021	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12478

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2]	A0214017	05/14/2025	11/14/2024 / anahy	07/23/2024 / RAHUL	S12517

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2]	A0214017	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12525

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31615 / SV Mixture, GC/MS Tuning Mixture, CH2Cl2, 1mL,	A0212955	06/30/2027	03/31/2025 / Rahul	08/01/2024 / Rahul	S12577

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	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	01/30/2025 / anahy	05/24/2024 / Rahul	S12791

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0219438	07/29/2025	01/29/2025 / anahy	12/11/2024 / anahy	S12966

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112

CPI INTERNATIONAL

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.

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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.

Received on 03/08/22 by CG S10242 to S10247

Catalog No. : 31615 **Lot No.:** A0182667

Description : GC/MS Tuning Mixture

GC/MS Tuning Mixture 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2025 **Storage:** 10°C or colder

Handling: Contains carcinogen/reproductive toxin. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Pentachlorophenol	1,003.6 µg/mL	+/- 5.8897 µg/mL	Gravimetric
	CAS # 87-86-5 (Lot 211229RSR)		+/- 45.7132 µg/mL	Unstressed
	Purity 99%		+/- 66.0037 µg/mL	Stressed
2	DFTPP (Decafluorotriphenylphosphine)	1,006.6 µg/mL	+/- 5.9074 µg/mL	Gravimetric
	CAS # 5074-71-5 (Lot Q117-147)		+/- 45.8508 µg/mL	Unstressed
	Purity 95%		+/- 66.2023 µg/mL	Stressed
3	Benzidine	1,008.4 µg/mL	+/- 5.9179 µg/mL	Gravimetric
	CAS # 92-87-5 (Lot 211228JLM)		+/- 45.9318 µg/mL	Unstressed
	Purity 99%		+/- 66.3193 µg/mL	Stressed
4	4,4'-DDT	1,007.6 µg/mL	+/- 5.9132 µg/mL	Gravimetric
	CAS # 50-29-3 (Lot 210916JLM)		+/- 45.8954 µg/mL	Unstressed
	Purity 99%		+/- 66.2667 µg/mL	Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

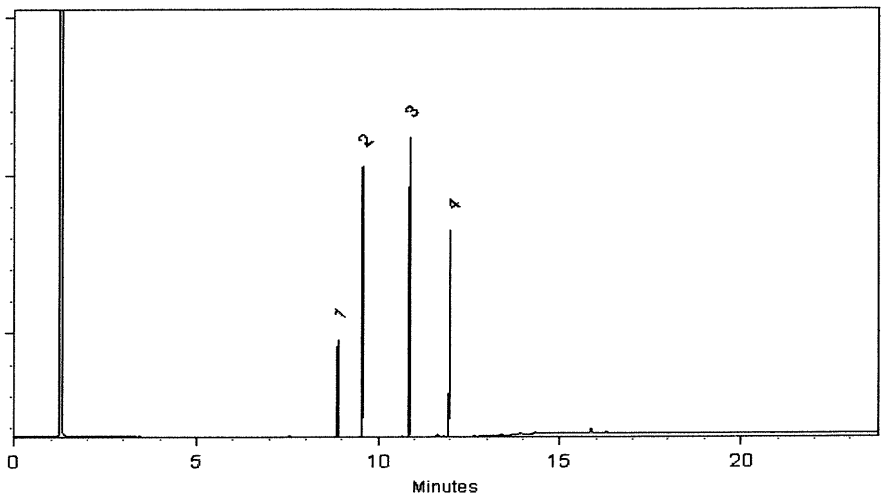
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Morgan Craighead - Mix Technician

Date Mixed: 08-Mar-2022 **Balance:** B345965662

Merlina Cowan - Operations Tech I

Date Passed: 10-Mar-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK® CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis

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.

Received on 02/06/23 by CG

S11071 to S11075

Catalog No. : 31853 **Lot No.:** A0187043

Description : 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	1,4-Dioxane	2,019.0 µg/mL	+/- 11.8486	µg/mL	Gravimetric
	CAS # 123-91-1 (Lot SHBN5929)		+/- 43.2570	µg/mL	Unstressed
	Purity 99%		+/- 44.5129	µg/mL	Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

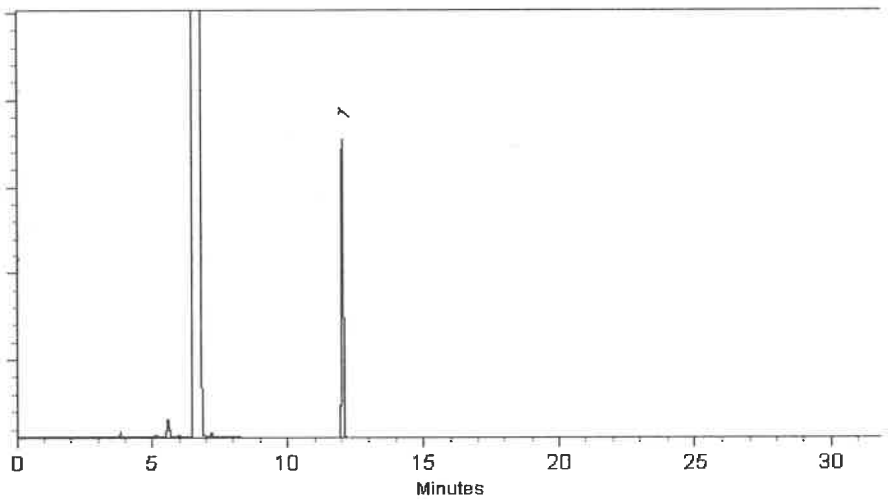
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brittany Federinko - Operations Tech I

Date Mixed: 07-Jul-2022 **Balance:** 1128360905

Marlina Cowan – Operations Tech II ARM QC

Date Passed: 12-Jul-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™ | J.T.Baker

Material No.: 9266-A4
Batch No.: 24J0862003
Manufactured Date: 2024-09-12
Expiration Date:2025-12-12
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	2
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	1
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	>= 99.8 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Titrable Acid (µeq/g)	<= 0.3	<0.1
Chloride (Cl)	<= 10 ppm	<5 ppm
Water (by KF, coulometric)	<= 0.02 %	<0.01 %

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3828

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

12/9-1/24

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor | J.T.Baker

Material No.: 9266-A4
Batch No.: 24K1762005
Manufactured Date: 2024-10-08
Expiration Date:2026-01-07
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	2
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	>= 99.8 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.5 ppm
Titrable Acid (µeq/g)	<= 0.3	0.0
Chloride (Cl)	<= 10 ppm	<5 ppm
Water (by KF, coulometric)	<= 0.02 %	0.01 %

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3871

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials,LLC
100 Matsonford Rd, Suite 200,Radnor,PA,19087.U.S.A.Phone 610.386.1700

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™ | J.T.Baker

Material No.: 9254-03
Batch No.: 24H2762008
Manufactured Date: 2024-04-18
Expiration Date:2027-04-18
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ($(CH_3)_2CO$) (by GC, corrected forwater)	>= 99.4 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.0 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titrable Acid (µeq/g)	<= 0.3	0.2
Titrable Base (µeq/g)	<= 0.6	<0.1
Water (H_2O)	<= 0.5 %	<0.1 %
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

Recd. by RP on 1/29/25

E 3873

JCroak
Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

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

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

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

Material No.: 9530-33
Batch No.: 0000281827
Manufactured Date: 2021/03/30
Retest Date: 2026/03/29
Revision No: 1

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.6
ACS - Color (APHA)	<= 10	5
ACS - Residue after Ignition	<= 3 ppm	1
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	1.189
ACS - Bromide (Br)	<= 0.005 %	< 0.005
ACS - Extractable Organic Substances	<= 5 ppm	< 1
ACS - Free Chlorine (as Cl_2)	<= 0.5 ppm	< 0.5
Phosphate (PO_4)	<= 0.05 ppm	< 0.03
Sulfate (SO_4)	<= 0.5 ppm	< 0.3
Sulfite (SO_3)	<= 0.8 ppm	0.3
Ammonium (NH_4)	<= 3 ppm	< 1
Trace Impurities - Arsenic (As)	<= 0.010 ppm	< 0.003
Trace Impurities - Aluminum (Al)	<= 10.0 ppb	0.5
Arsenic and Antimony (as As)	<= 5 ppb	< 3
Trace Impurities - Barium (Ba)	<= 1.0 ppb	< 0.2
Trace Impurities - Beryllium (Be)	<= 1.0 ppb	< 0.2
Trace Impurities - Bismuth (Bi)	<= 10.0 ppb	< 1.0
Trace Impurities - Boron (B)	<= 20.0 ppb	< 5.0
Trace Impurities - Cadmium (Cd)	<= 1.0 ppb	< 0.3
Trace Impurities - Calcium (Ca)	<= 50.0 ppb	15.0
Trace Impurities - Chromium (Cr)	<= 1.0 ppb	< 0.4
Trace Impurities - Cobalt (Co)	<= 1.0 ppb	< 0.3
Trace Impurities - Copper (Cu)	<= 1.0 ppb	< 0.1
Trace Impurities - Gallium (Ga)	<= 1.0 ppb	< 0.2

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Test	Specification	Result
Trace Impurities - Germanium (Ge)	<= 3.0 ppb	< 2.0
Trace Impurities - Gold (Au)	<= 4.0 ppb	3.0
Heavy Metals (as Pb)	<= 100 ppb	< 50
Trace Impurities - Iron (Fe)	<= 15.0 ppb	1.0
Trace Impurities - Lead (Pb)	<= 1.0 ppb	< 0.5
Trace Impurities - Lithium (Li)	<= 1.0 ppb	< 0.2
Trace Impurities - Magnesium (Mg)	<= 10.0 ppb	< 0.4
Trace Impurities - Manganese (Mn)	<= 1.0 ppb	< 0.4
Trace Impurities - Mercury (Hg)	<= 0.5 ppb	0.2
Trace Impurities - Molybdenum (Mo)	<= 10.0 ppb	< 5.0
Trace Impurities - Nickel (Ni)	<= 4.0 ppb	< 0.3
Trace Impurities - Niobium (Nb)	<= 1.0 ppb	< 0.2
Trace Impurities - Potassium (K)	<= 9.0 ppb	< 2.0
Trace Impurities - Selenium (Se), For Information Only	ppb	1.0
Trace Impurities - Silicon (Si)	<= 100.0 ppb	18.0
Trace Impurities - Silver (Ag)	<= 1.0 ppb	< 0.3
Trace Impurities - Sodium (Na)	<= 100.0 ppb	< 5.0
Trace Impurities - Strontium (Sr)	<= 1.0 ppb	< 0.2
Trace Impurities - Tantalum (Ta)	<= 1.0 ppb	< 0.9
Trace Impurities - Thallium (Tl)	<= 5.0 ppb	< 2.0
Trace Impurities - Tin (Sn)	<= 5.0 ppb	< 0.8
Trace Impurities - Titanium (Ti)	<= 1.0 ppb	< 0.2
Trace Impurities - Vanadium (V)	<= 1.0 ppb	< 0.2
Trace Impurities - Zinc (Zn)	<= 5.0 ppb	0.4
Trace Impurities - Zirconium (Zr)	<= 1.0 ppb	< 0.1

For Laboratory, Research or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications

Country of Origin: US
Packaging Site: Phillipsburg Mfg Ctr & DC

James Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received:_____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110094-02	506889	≤ -10 °C	Methylene Chloride	7/25/2028	CLP Base/Neutral Surrogate Solution, 5,000 mg/L, 1 ml

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2-dichlorobenzene-d_4	2199-69-1	99.7	247.29.3P	5035 ± 28.02
2-fluorobiphenyl	321-60-8	99.69	8.286.1.1P	4999 ± 103.66
nitrobenzene-d5	4165-60-0	99.67	7.9.3P	4988 ± 27.32
p-terphenyl-d14	1718-51-0	99.3	9.120.8P	5005 ± 27.85

511494 to 511498 } Y.P. 08/11/2023

*Not a certified value

Certified By: _____

Clint Tipton
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

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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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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.)

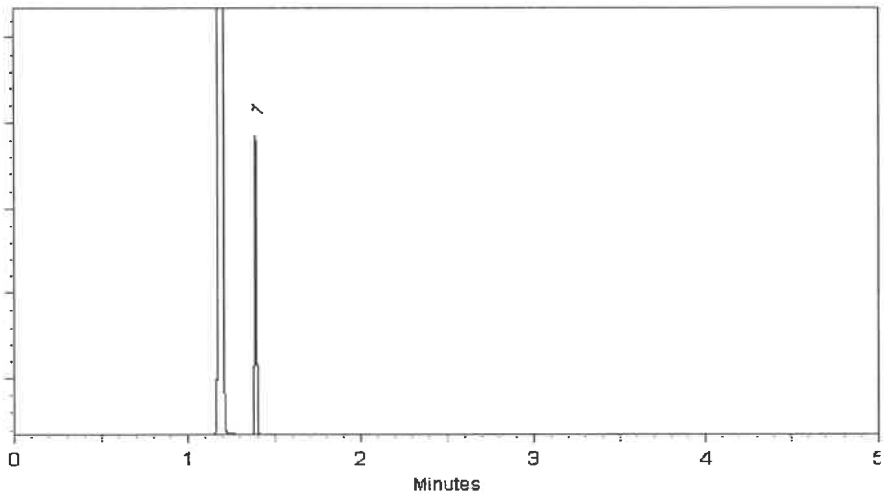
Inj. Temp:
250°C

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.
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ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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.)

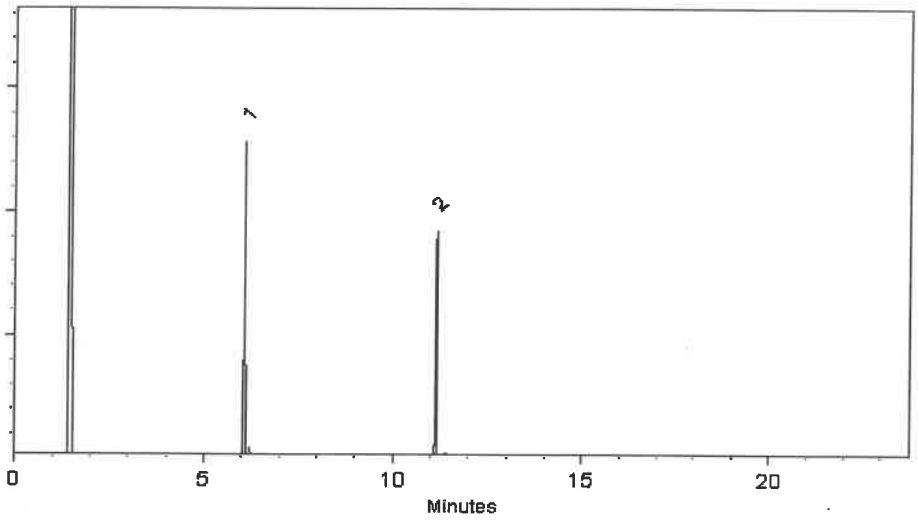
Inj. Temp:
250°C

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.
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Certified Uncertainty Value Notes:

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Manufacturing Notes:

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Handling Notes:

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 33913 **Lot No.:** A0201976

Description : SOM01.0 SIM Analysis Standard

SOM01.0 SIM Analysis Standard 2000µg/mL, Methylene chloride, 1mL /ampul

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

S11828 ↓ S11832 RC/ 11/30/23

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%

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30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

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75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

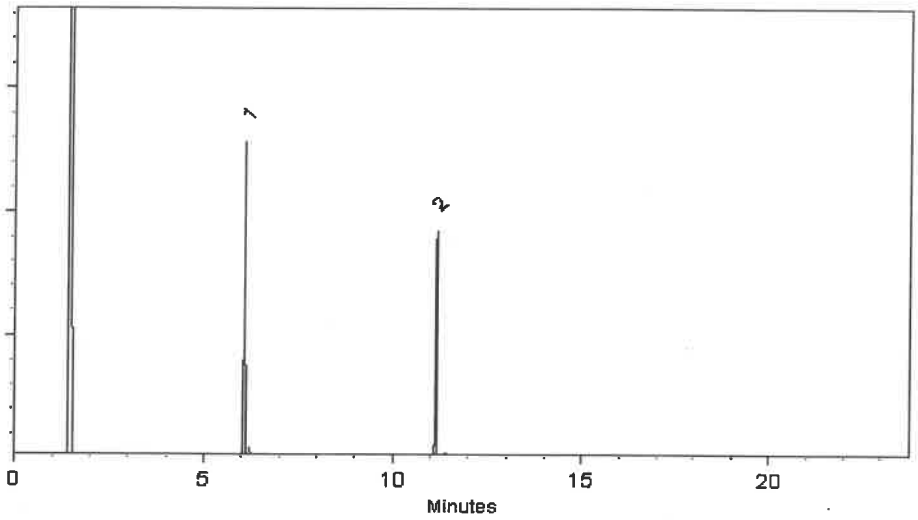
Inj. Temp:
250°C

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:

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- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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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-020223-01	454157	≤ -10 °C	P/T Methanol	6/10/2026	1,4-Dioxane Solution, 2000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,4-dioxane	123-91-1	100	223.1.3P	1997 ± 57.08

S12112 ↓ S12116 } RC 03/08/24

*Not a certified value

Certified By: Melissa Workoff

Melissa Workoff
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

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ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0203726

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

S12117 ↓ S12146 RC/ 03/18/24

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,001.6 µg/mL	+/- 36.4412
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,005.9 µg/mL	+/- 36.5968
3	Phenol	108-95-2	MKCK1120	99%	1,003.3 µg/mL	+/- 36.5038
4	Aniline	62-53-3	X22F726	99%	1,005.8 µg/mL	+/- 36.5928
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,008.1 µg/mL	+/- 36.6776
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,001.8 µg/mL	+/- 36.4492
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,002.3 µg/mL	+/- 36.4654
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,003.7 µg/mL	+/- 36.5159
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,008.7 µg/mL	+/- 36.6979
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,000.3 µg/mL	+/- 36.3926
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,003.5 µg/mL	+/- 36.5099
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,007.3 µg/mL	+/- 36.6493
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	504.3 µg/mL	+/- 18.3500
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.6 µg/mL	+/- 18.3237
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,008.3 µg/mL	+/- 36.6857
16	Hexachloroethane	67-72-1	QTORH	99%	1,007.5 µg/mL	+/- 36.6554
17	Nitrobenzene	98-95-3	10224044	99%	1,008.6 µg/mL	+/- 36.6938

18	Isophorone	78-59-1	MKCC9506	99%	1,005.9	µg/mL	+/-	36.5988
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.2	µg/mL	+/-	36.4998
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.8	µg/mL	+/-	36.5200
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,002.1	µg/mL	+/-	36.4573
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,003.7	µg/mL	+/-	36.5180
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,007.6	µg/mL	+/-	36.6574
24	Naphthalene	91-20-3	STBL1057	99%	1,008.3	µg/mL	+/-	36.6837
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,001.3	µg/mL	+/-	36.4290
26	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,008.3	µg/mL	+/-	36.6829
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.1	µg/mL	+/-	36.4937
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,001.9	µg/mL	+/-	36.4505
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/-	36.3838
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,008.5	µg/mL	+/-	36.6909
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.4	µg/mL	+/-	36.5442
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,001.9	µg/mL	+/-	36.4512
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.1	µg/mL	+/-	36.4230
34	2-Nitroaniline	88-74-4	RP230531	99%	1,002.9	µg/mL	+/-	36.4876
35	1,4-Dinitrobenzene	100-25-4	RP230816	99%	1,005.7	µg/mL	+/-	36.5887
36	Acenaphthylene	208-96-8	p06V	98%	1,009.5	µg/mL	+/-	36.7265
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.4	µg/mL	+/-	36.5422
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,005.9	µg/mL	+/-	36.5968
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,003.2	µg/mL	+/-	36.4998
40	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,002.2	µg/mL	+/-	36.4634
41	Acenaphthene	83-32-9	MKCR7169	99%	1,009.3	µg/mL	+/-	36.7221
42	3-Nitroaniline	99-09-2	RP230822RSR	99%	1,003.9	µg/mL	+/-	36.5240
43	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,002.0	µg/mL	+/-	36.4553
44	Dibenzofuran	132-64-9	MKCD9952	99%	1,006.7	µg/mL	+/-	36.6251
45	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,003.8	µg/mL	+/-	36.5220
46	4-Nitrophenol	100-02-7	RP230627	99%	1,002.3	µg/mL	+/-	36.4674
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,008.7	µg/mL	+/-	36.6979
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP230919	99%	1,006.3	µg/mL	+/-	36.6130
49	Fluorene	86-73-7	10241100	99%	1,008.3	µg/mL	+/-	36.6857
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,003.8	µg/mL	+/-	36.5220
51	Diethylphthalate	84-66-2	MKCD2547	99%	1,008.6	µg/mL	+/-	36.6958
52	4-Nitroaniline	100-01-6	RP230111	99%	1,001.1	µg/mL	+/-	36.4230
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230718JLM	99%	1,002.0	µg/mL	+/-	36.4553

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.3	µg/mL	+/- 36.4674
55	Azobenzene	103-33-3	BCCK0887	99%	1,005.8	µg/mL	+/- 36.5928
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,003.0	µg/mL	+/- 36.4917
57	Hexachlorobenzene	118-74-1	14821700	99%	1,007.5	µg/mL	+/- 36.6554
58	Pentachlorophenol	87-86-5	RP230530RSR	99%	1,008.8	µg/mL	+/- 36.7019
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,008.4	µg/mL	+/- 36.6877
60	Anthracene	120-12-7	MKCR0570	99%	1,009.0	µg/mL	+/- 36.7100
61	Carbazole	86-74-8	14351100	99%	1,000.9	µg/mL	+/- 36.4149
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,007.6	µg/mL	+/- 36.6595
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,009.6	µg/mL	+/- 36.7302
64	Pyrene	129-00-0	BCCG8479	98%	1,007.2	µg/mL	+/- 36.6453
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,002.1	µg/mL	+/- 36.4573
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.2	µg/mL	+/- 36.5705
67	Benz(a)anthracene	56-55-3	I220012022BAA	99%	1,002.2	µg/mL	+/- 36.4614
68	Chrysene	218-01-9	RP230601	99%	1,008.3	µg/mL	+/- 36.6837
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,001.8	µg/mL	+/- 36.4472
70	Di-n-octyl phthalate	117-84-0	14382700	99%	1,006.0	µg/mL	+/- 36.6008
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,002.8	µg/mL	+/- 36.4836
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,003.0	µg/mL	+/- 36.4917
73	Benzo(a)pyrene	50-32-8	P54915-0703	99%	1,002.3	µg/mL	+/- 36.4674
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,009.4	µg/mL	+/- 36.7243
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,007.6	µg/mL	+/- 36.6595
76	Benzo(g,h,i)perylene	191-24-2	RP231003RSR	99%	1,002.9	µg/mL	+/- 36.4876

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31087 **Lot No.:** A0206206

Description : Acid Surrogate Mix (4/89 SOW)

Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : January 31, 2032 **Storage:** 10°C or colder

Ship: Ambient

S12187 ↓ S12206 } RC/ 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorophenol	367-12-4	STBK1705	99%	10,005.3 µg/mL	+/- 302.5390
2	Phenol-d6	13127-88-3	PR-33287A	99%	10,005.5 µg/mL	+/- 302.5475
3	2,4,6-Tribromophenol	118-79-6	RP230831RSR	99%	10,006.6 µg/mL	+/- 302.5783

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

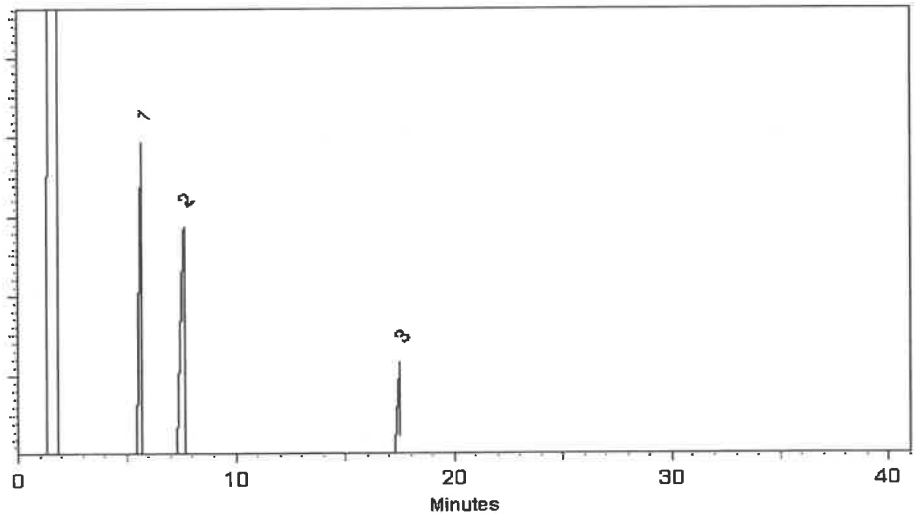
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope Riglin - Operations Tech I

Date Mixed: 04-Jan-2024 **Balance Serial #** 1128360905

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

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.)

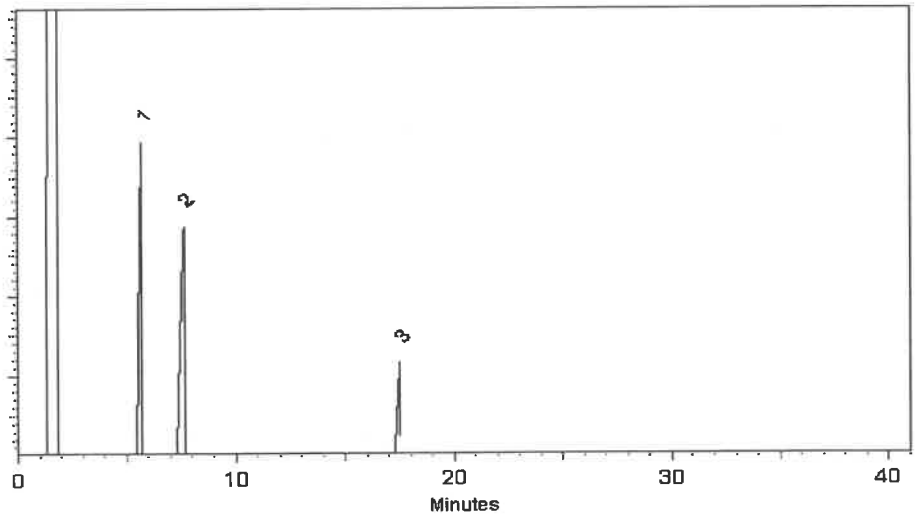
Inj. Temp:
250°C

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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CERTIFIED REFERENCE MATERIAL

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31086 **Lot No.:** A0206381

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

S12207 ↓ S12221 RC/ 03/18/24

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 µg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 µg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 µg/mL	+/- 226.3909

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

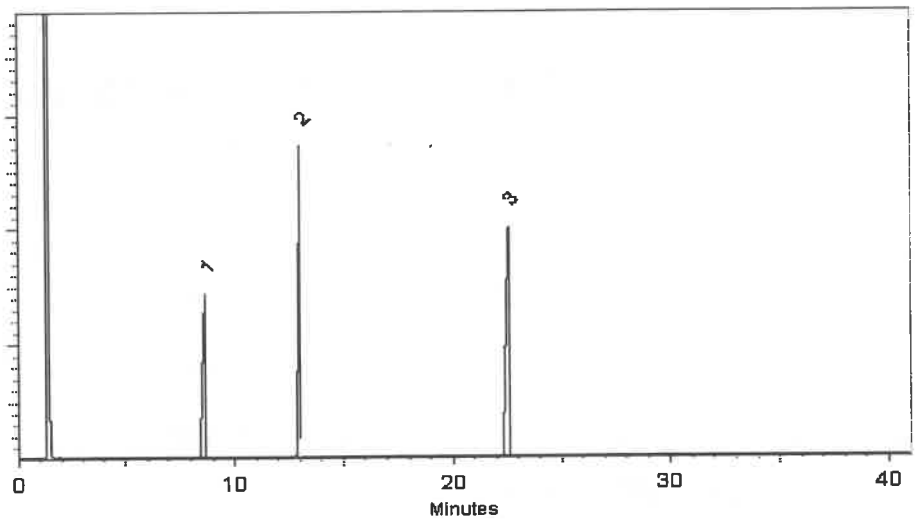
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Date Mixed: 09-Jan-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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CERTIFIED REFERENCE MATERIAL

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

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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. : 31086 **Lot No.:** A0206381

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

S12207 ↓ S12221 RC/ 03/18/24

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 µg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 µg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 µg/mL	+/- 226.3909

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

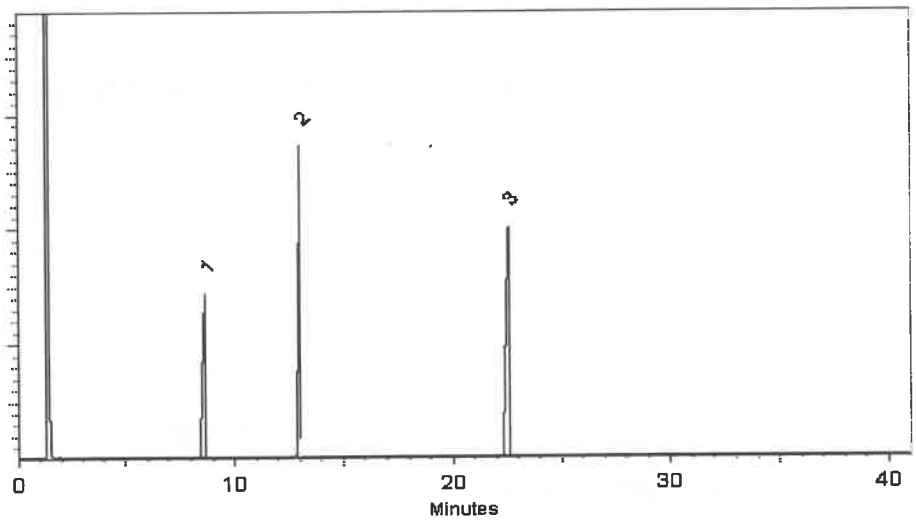
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Date Mixed: 09-Jan-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

CPI INTERNATIONAL

5580 Skylane Blvd
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-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

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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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

S12312 ↓ S12331 } RC/ 05/30/24

Catalog No. : 31206 **Lot No.:** A0206540

Description : SV Internal Standard Mix 2mg/ml

SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,007.1 µg/mL	+/- 90.4025
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,005.9 µg/mL	+/- 90.3454
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,007.9 µg/mL	+/- 90.4385
4	Phenanthrene-d10	1517-22-2	PR-32303	99%	2,006.7 µg/mL	+/- 90.3845
5	Chrysene-d12	1719-03-5	PR-32210	99%	2,015.5 µg/mL	+/- 90.7778
6	Perylene-d12	1520-96-3	PR-33205	99%	2,014.7 µg/mL	+/- 90.7448

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

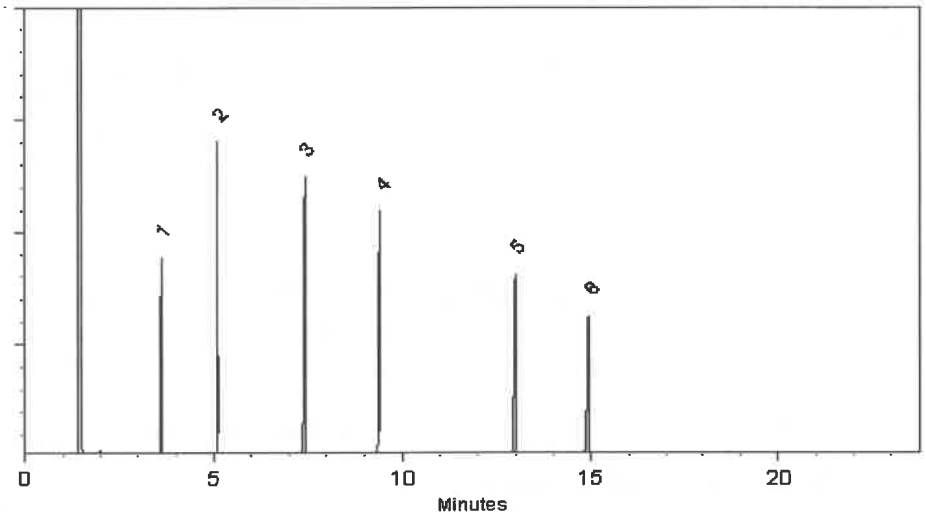
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



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.

Malina Homan - Operations Technician I

Date Mixed: 12-Jan-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 16-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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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. : 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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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.
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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ S12568 } RC/ 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- 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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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.
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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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.)

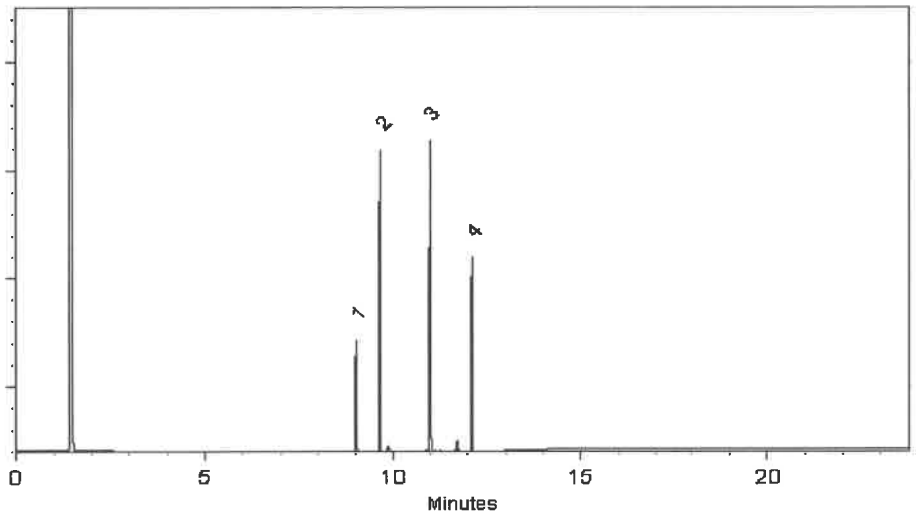
Inj. Temp:
250°C

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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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

CPI INTERNATIONAL

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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:_____

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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 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0219438

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

S12963 ↓ S12992 AC 12/17/24

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,008.3 µg/mL	+/- 36.6849
2	N-Nitrosodimethylamine	62-75-9	S240313RSR	99%	1,008.6 µg/mL	+/- 36.6985
3	Phenol	108-95-2	MKCK1120	99%	1,003.5 µg/mL	+/- 36.5120
4	Aniline	62-53-3	X22F726	99%	1,002.9 µg/mL	+/- 36.4893
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,003.0 µg/mL	+/- 36.4938
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.6 µg/mL	+/- 36.5894
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.1 µg/mL	+/- 36.5348
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,002.1 µg/mL	+/- 36.4620
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,003.5 µg/mL	+/- 36.5120
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,005.3 µg/mL	+/- 36.5757
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,008.4 µg/mL	+/- 36.6894
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,004.6 µg/mL	+/- 36.5530
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.1 µg/mL	+/- 18.2697
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.8 µg/mL	+/- 18.3288
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,006.5 µg/mL	+/- 36.6212
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.5 µg/mL	+/- 36.5484
17	Nitrobenzene	98-95-3	10224044	99%	1,002.5 µg/mL	+/- 36.4757

18	Isophorone	78-59-1	MKCR3249	99%	1,003.4	µg/mL	+/- 36.5075
19	2-Nitrophenol	88-75-5	RP230710	99%	1,002.5	µg/mL	+/- 36.4757
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,006.5	µg/mL	+/- 36.6212
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,006.6	µg/mL	+/- 36.6257
22	2,4-Dichlorophenol	120-83-2	BCCK6969	99%	1,001.5	µg/mL	+/- 36.4393
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,006.4	µg/mL	+/- 36.6166
24	Naphthalene	91-20-3	STBL1057	99%	1,002.1	µg/mL	+/- 36.4620
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,004.4	µg/mL	+/- 36.5439
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,002.5	µg/mL	+/- 36.4771
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,004.5	µg/mL	+/- 36.5484
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,000.0	µg/mL	+/- 36.3847
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	µg/mL	+/- 36.0269
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,001.3	µg/mL	+/- 36.4325
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,006.4	µg/mL	+/- 36.6166
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.6	µg/mL	+/- 36.5505
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,004.3	µg/mL	+/- 36.5393
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.4	µg/mL	+/- 36.5439
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,002.8	µg/mL	+/- 36.4847
36	Acenaphthylene	208-96-8	RP241029RSR	98%	1,000.0	µg/mL	+/- 36.3835
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,006.3	µg/mL	+/- 36.6121
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,008.9	µg/mL	+/- 36.7076
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,006.6	µg/mL	+/- 36.6257
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,002.5	µg/mL	+/- 36.4757
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/- 36.3847
42	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,004.6	µg/mL	+/- 36.5530
43	2,4-Dinitrophenol	51-28-5	D240927RSR	----%	1,005.6	µg/mL	+/- 36.5894
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,003.5	µg/mL	+/- 36.5120
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,008.3	µg/mL	+/- 36.6849
46	4-Nitrophenol	100-02-7	20241029-2-AN	99%	1,004.8	µg/mL	+/- 36.5575
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,005.8	µg/mL	+/- 36.5939
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP231219RSR	99%	1,006.4	µg/mL	+/- 36.6166
49	Fluorene	86-73-7	10246250	98%	1,000.7	µg/mL	+/- 36.4102
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,004.9	µg/mL	+/- 36.5621
51	Diethylphthalate	84-66-2	BCCJ6241	99%	1,003.9	µg/mL	+/- 36.5257
52	4-Nitroaniline	100-01-6	RP230111	99%	1,006.6	µg/mL	+/- 36.6257
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	1,001.3	µg/mL	+/- 36.4302

54	Diphenylamine	122-39-4	MKCT1512	99%	1,003.0	µg/mL	+/- 36.4938
55	Azobenzene	103-33-3	BCCK0887	99%	1,002.4	µg/mL	+/- 36.4711
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,008.8	µg/mL	+/- 36.7031
57	Hexachlorobenzene	118-74-1	15458400	99%	1,005.1	µg/mL	+/- 36.5712
58	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,005.9	µg/mL	+/- 36.5984
59	Phenanthrene	85-01-8	MKCT3391	99%	1,004.9	µg/mL	+/- 36.5621
60	Anthracene	120-12-7	101492T18R	99%	1,005.1	µg/mL	+/- 36.5712
61	Carbazole	86-74-8	15276700	99%	1,005.4	µg/mL	+/- 36.5803
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,006.3	µg/mL	+/- 36.6121
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,003.5	µg/mL	+/- 36.5120
64	Pyrene	129-00-0	BCCK2592	99%	1,002.0	µg/mL	+/- 36.4575
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,007.5	µg/mL	+/- 36.6576
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.9	µg/mL	+/- 36.5984
67	Benz(a)anthracene	56-55-3	I70012022BAA	99%	1,005.5	µg/mL	+/- 36.5848
68	Chrysene	218-01-9	RP241007RSR	99%	1,005.3	µg/mL	+/- 36.5757
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,007.5	µg/mL	+/- 36.6576
70	Di-n-octyl phthalate	117-84-0	15566400	99%	1,002.3	µg/mL	+/- 36.4666
71	Benzo(b)fluoranthene	205-99-2	052013B	99%	1,004.1	µg/mL	+/- 36.5348
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,002.8	µg/mL	+/- 36.4847
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,006.2	µg/mL	+/- 36.6108
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,001.8	µg/mL	+/- 36.4490
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,003.3	µg/mL	+/- 36.5029
76	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,003.8	µg/mL	+/- 36.5217

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.

SHIPPING DOCUMENTS

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax: (908) 78-8922
www.chemtech.net

Chemtech Project Number: Q1621

COC Number:

CLIENT INFORMATION	PROJECT INFORMATION	BILLING INFORMATION
COMPANY: Tetra Tech	PROJECT NAME: NWIRP Bethpage	BILL TO: PO#
ADDRESS: 4433 Corporation Ln, Suite 300	PROJECT #: 112G08005-WE13 LOCATION: RW5B	ADDRESS:
CITY: Virginia Beach STATE: VA ZIP: 23462	PROJECT MANAGER: Ernie Wu	CITY: STATE: ZIP:
ATTENTION: Ernie Wu	E-MAIL: ernie,wu@tetratech.com	ATTENTION: PHONE:
PHONE: 757-466-4901 FAX: 757-461-4148	PHONE: 757-466-4901 FAX: 757-461-4148	

DATA TURNAROUND INFORMATION

FAX: 10 DAYS*
HARD COPY: 10 DAYS*
EDD 10 DAYS*
* TO BE APPROVED BY CHEMTECH
STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ RESULTS ONLY
- ☐ RESULTS + QC
- ☐ New Jersey REDUCED
- ☐ New Jersey CLP
- ☐ EDD Format
- ☐ USEPA CLP
- ☐ New York State ASP "B"
- ☐ New York State ASP "A"
- ☐ Other

ANALYSIS

	1	2	3	4	5	6	7	8	9
1,4-Dioxane SW846 8270 SIM									

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# of Bottles	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
1.	RW5-SP100-20250320	GW		x	3/20/25	10:45	1	x									
2.	RW5-SP201-20250320	GW		x	3/20/25	10:47	1	x									
3.	RW5-SP303-20250320	GW		x	3/20/25	10:53	1	x									
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

<-- Specify Preservatives
A-HCl B-HNO3
C-H2SO4 D-NaOH
E-ICE F-Other

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE PROSSESSION INCLUDING COURIER DELIVERY

	DATE/TIME		
1. RELINQUISHED BY SAMPLER	3/20/25/1120	1. RECEIVED BY	
2. RELINQUISHED BY FedEx	3-21-25 0944	2. RECEIVED BY	
3. RELINQUISHED BY	DATE/TIME	3. RECEIVED FOR LAB BY	

Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant ☐ Cooler Temp 2.3°C
MeOH extraction requires an additional 4oz. Jar for percent solid ☐ Ice in Cooler?: Y
Comments:

Page ____ of ____

SHIPPED VIA: CLIENT: ☐ Hand Delivered ☐ Overnight
CHEMTECH: ☐ Picked Up ☐ Overnight

Shipment Complete ☐ YES ☐ NO

WHITE - CHEMTECH COPYFOR RETURN TO CLIENT **YELLOW** - CHEMTECH COPY **PINK** - SAMPLER COPY

284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036557.D
Acq On : 10 Mar 2025 11:42
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Quant Time: Mar 10 16:00:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:54:23 2025
Response via : Initial Calibration

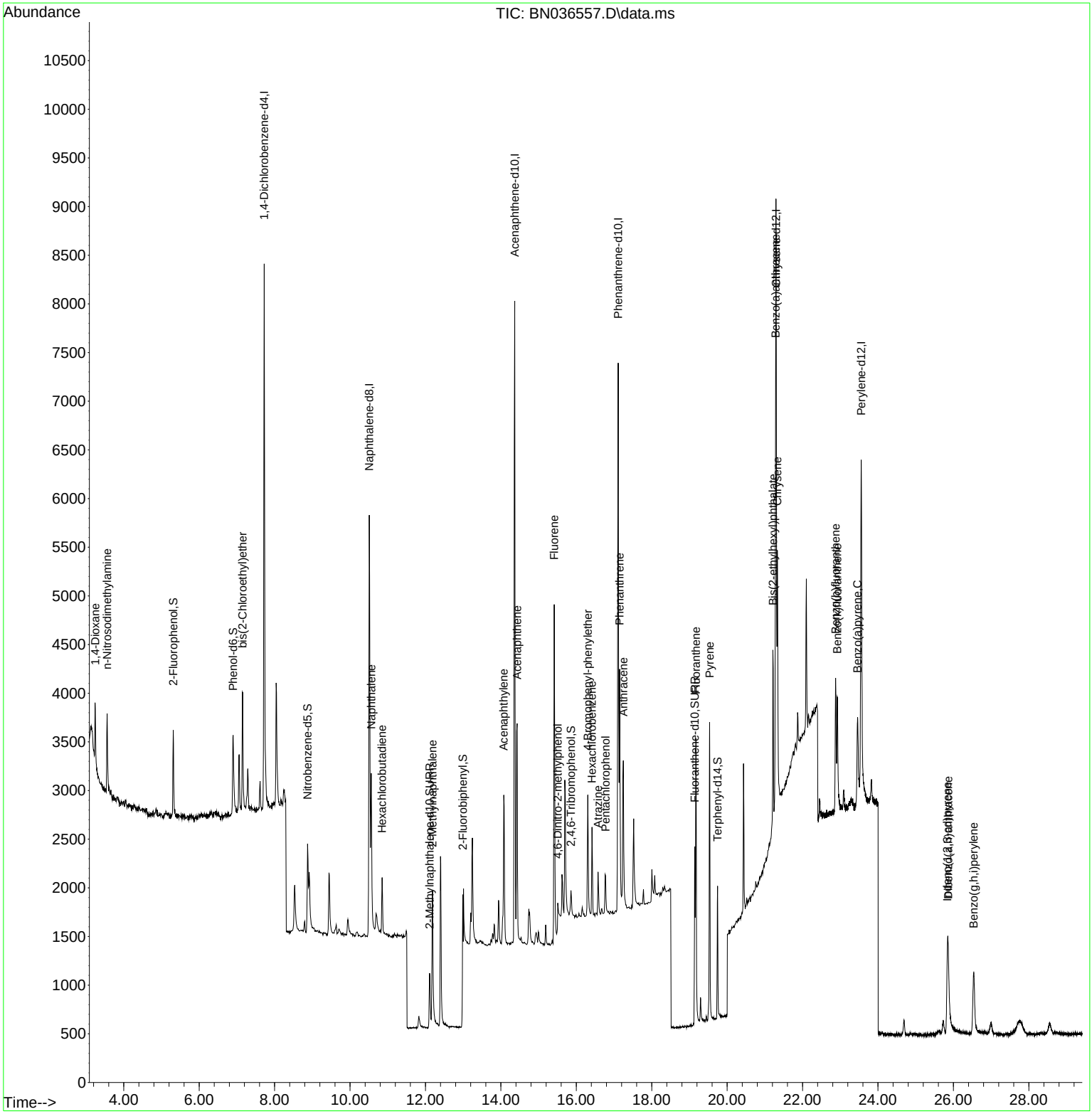
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.724	152	2755	0.400	ng		0.00
7) Naphthalene-d8	10.509	136	6575	0.400	ng		0.00
13) Acenaphthene-d10	14.366	164	3958	0.400	ng		0.00
19) Phenanthrene-d10	17.111	188	8269	0.400	ng		0.00
29) Chrysene-d12	21.295	240	5886	0.400	ng		0.00
35) Perylene-d12	23.554	264	5207	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.312	112	641	0.100	ng		0.00
5) Phenol-d6	6.901	99	856	0.108	ng		0.00
8) Nitrobenzene-d5	8.875	82	940	0.131	ng		0.00
11) 2-Methylnaphthalene-d10	12.111	152	1079	0.110	ng		0.00
14) 2,4,6-Tribromophenol	15.858	330	179	0.100	ng		0.00
15) 2-Fluorobiphenyl	12.993	172	2185	0.095	ng		0.00
27) Fluoranthene-d10	19.141	212	2144	0.101	ng		0.00
31) Terphenyl-d14	19.745	244	1416	0.100	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.247	88	534	0.175	ng	#	78
3) n-Nitrosodimethylamine	3.557	42	766	0.124	ng	#	95
6) bis(2-Chloroethyl)ether	7.154	93	982	0.120	ng		98
9) Naphthalene	10.562	128	2254	0.117	ng	#	94
10) Hexachlorobutadiene	10.850	225	486	0.107	ng	#	100
12) 2-Methylnaphthalene	12.187	142	1331	0.108	ng		96
16) Acenaphthylene	14.078	152	1862	0.100	ng		99
17) Acenaphthene	14.430	154	1244	0.102	ng		99
18) Fluorene	15.414	166	1612	0.097	ng		99
20) 4,6-Dinitro-2-methylph...	15.510	198	122	0.204	ng	#	24
21) 4-Bromophenyl-phenylether	16.304	248	502	0.097	ng		95
22) Hexachlorobenzene	16.416	284	632	0.101	ng		98
23) Atrazine	16.578	200	400	0.096	ng	#	90
24) Pentachlorophenol	16.776	266	290	0.102	ng		98
25) Phenanthrene	17.148	178	2459	0.099	ng		99
26) Anthracene	17.248	178	2121	0.095	ng		100
28) Fluoranthene	19.174	202	2772	0.099	ng		97
30) Pyrene	19.536	202	2862	0.099	ng		100
32) Benzo(a)anthracene	21.286	228	2044	0.100	ng		94
33) Chrysene	21.331	228	2187	0.098	ng		93
34) Bis(2-ethylhexyl)phtha...	21.214	149	1760	0.121	ng		96
36) Indeno(1,2,3-cd)pyrene	25.841	276	1510	0.080	ng		98
37) Benzo(b)fluoranthene	22.876	252	1707	0.090	ng	#	62
38) Benzo(k)fluoranthene	22.923	252	1958	0.098	ng	#	62
39) Benzo(a)pyrene	23.458	252	1419	0.089	ng	#	51
40) Dibenzo(a,h)anthracene	25.861	278	1163	0.079	ng	#	59
41) Benzo(g,h,i)perylene	26.539	276	1482	0.089	ng	#	84

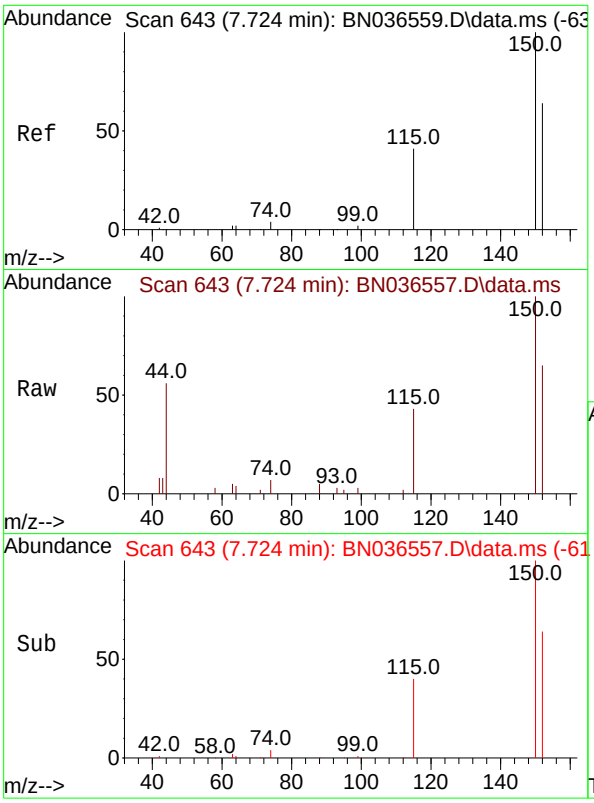
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036557.D
Acq On : 10 Mar 2025 11:42
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Quant Time: Mar 10 16:00:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:54:23 2025
Response via : Initial Calibration



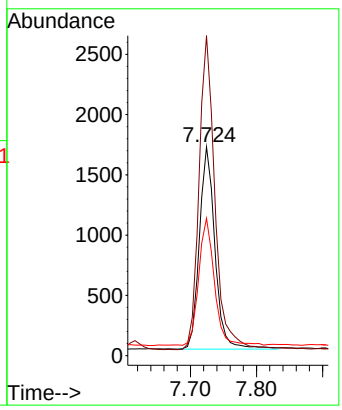


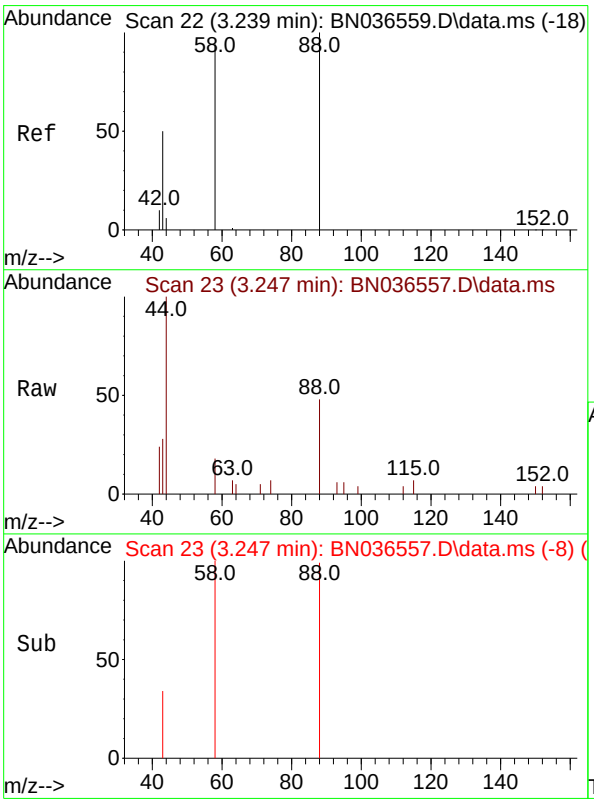
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:152 Resp: 2755

Ion	Ratio	Lower	Upper
152	100		
150	153.3	123.7	185.5
115	65.8	54.3	81.5

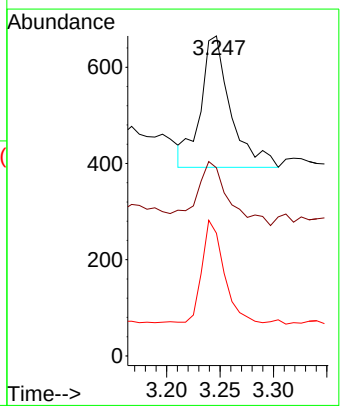


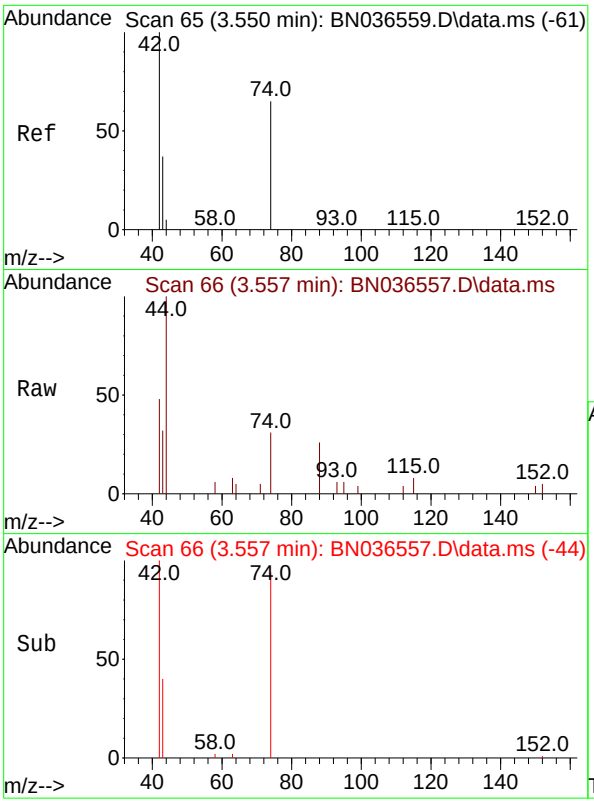


#2
1,4-Dioxane
Concen: 0.175 ng
RT: 3.247 min Scan# 23
Delta R.T. 0.007 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion: 88 Resp: 534

Ion	Ratio	Lower	Upper
88	100		
43	53.0	37.8	56.8
58	57.3	67.4	101.2#



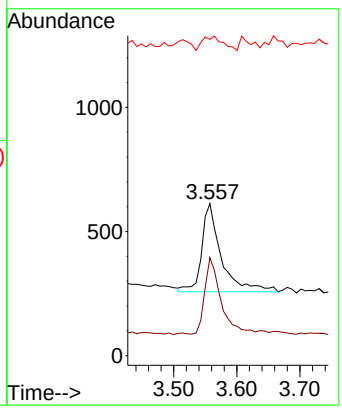


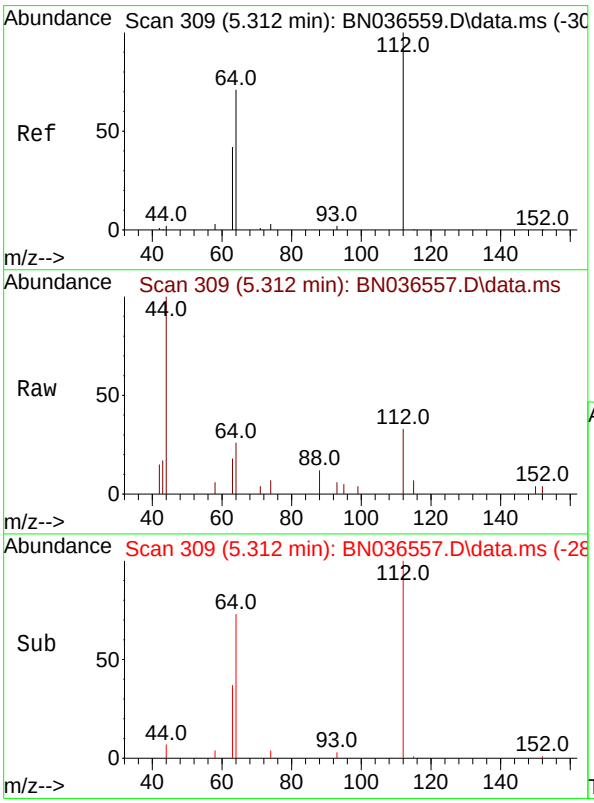
#3
n-Nitrosodimethylamine
Concen: 0.124 ng
RT: 3.557 min Scan# 6
Delta R.T. 0.007 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion: 42 Resp: 766

Ion	Ratio	Lower	Upper
42	100		
74	73.0	60.6	90.8
44	16.6	6.3	9.5#

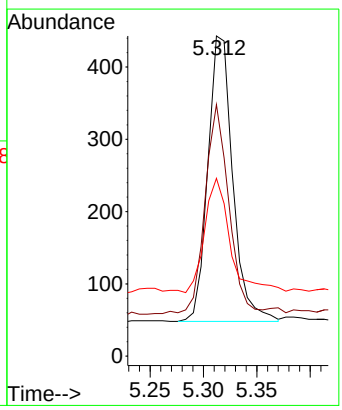


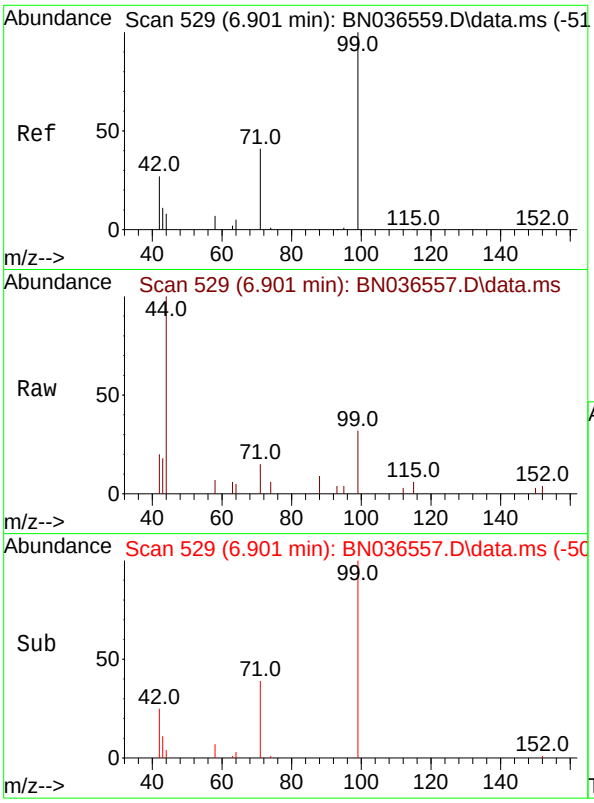


#4
2-Fluorophenol
Concen: 0.100 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:112 Resp: 641

Ion	Ratio	Lower	Upper
112	100		
64	70.4	53.1	79.7
63	40.9	31.8	47.8



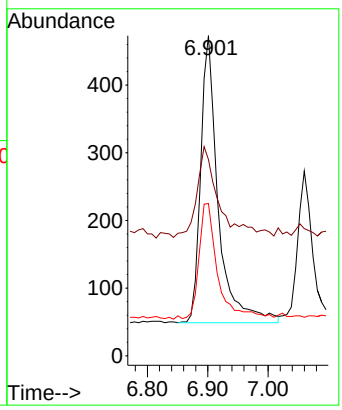


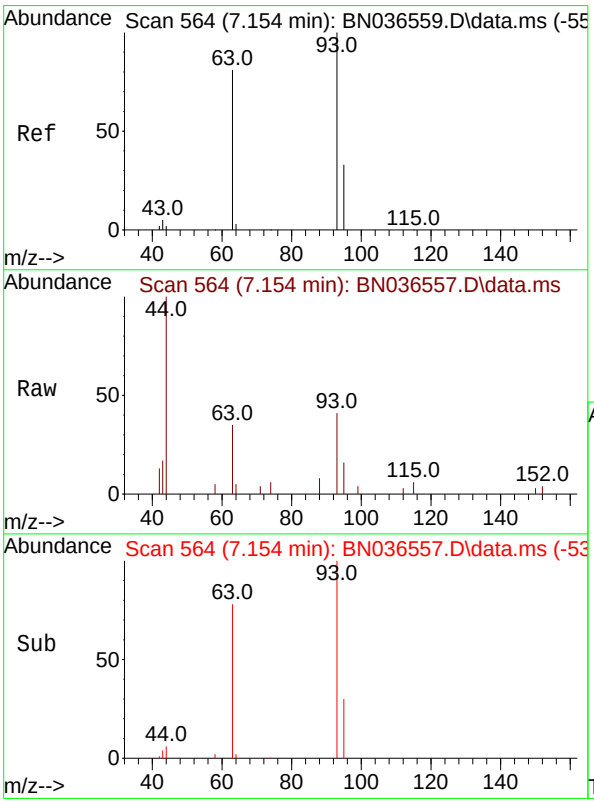
#5
Phenol-d6
Concen: 0.108 ng
RT: 6.901 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion: 99 Resp: 856

Ion	Ratio	Lower	Upper
99	100		
42	39.8	26.5	39.7#
71	42.8	34.1	51.1

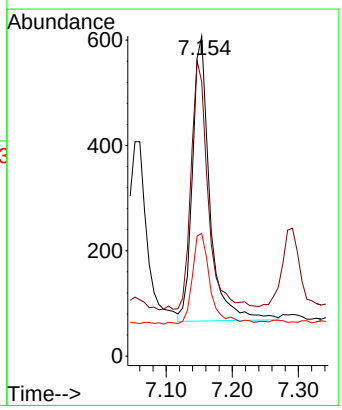


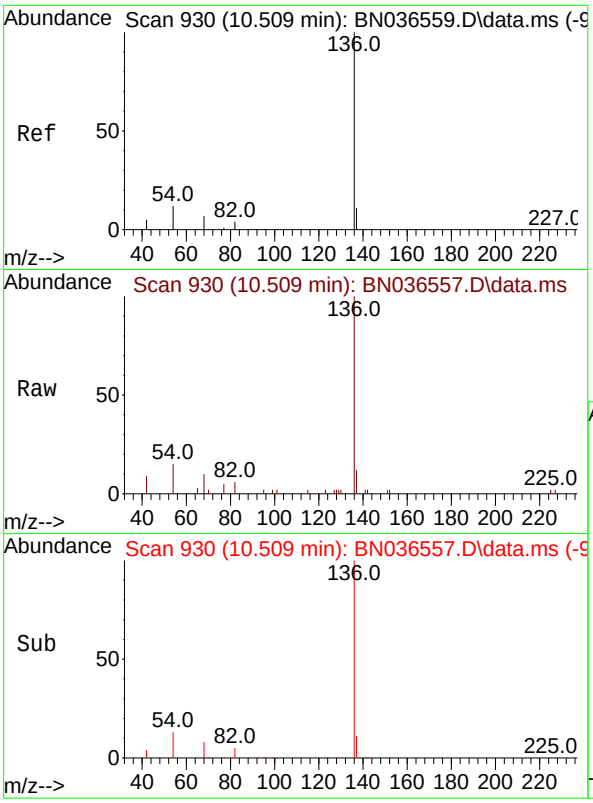


#6
bis(2-Chloroethyl)ether
Concen: 0.120 ng
RT: 7.154 min Scan# 564
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion: 93 Resp: 982

Ion	Ratio	Lower	Upper
93	100		
63	86.7	67.7	101.5
95	33.0	25.6	38.4



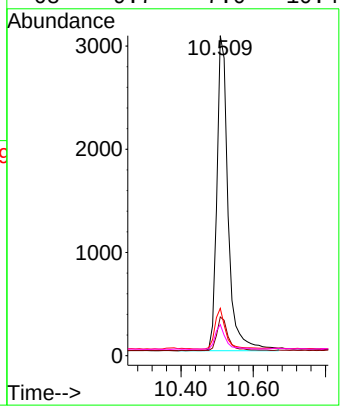


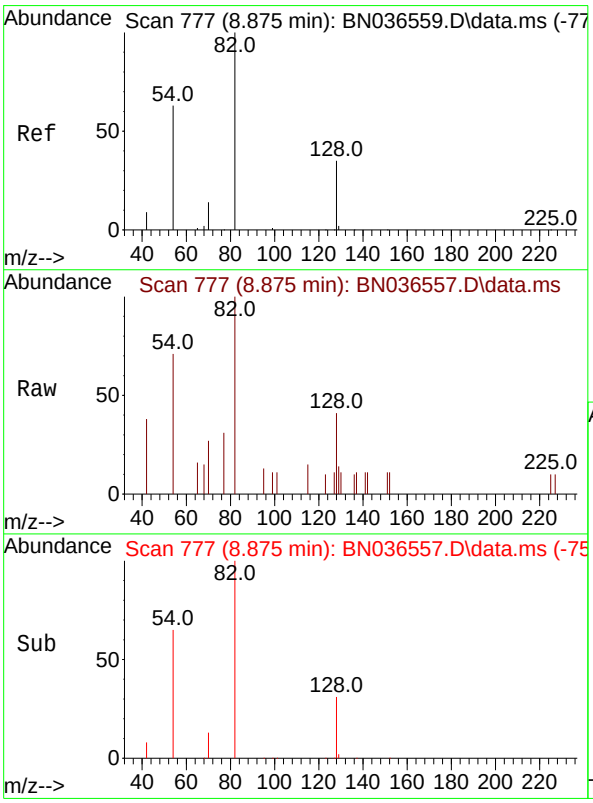
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:136 Resp: 6575

Ion	Ratio	Lower	Upper
136	100		
137	12.1	10.3	15.5
54	14.8	11.5	17.3
68	9.7	7.0	10.4

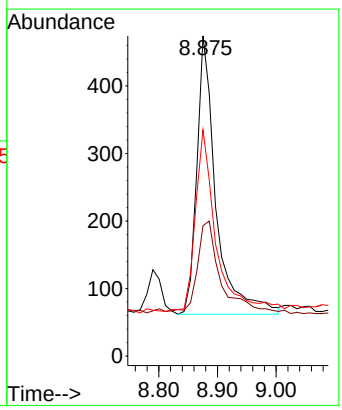


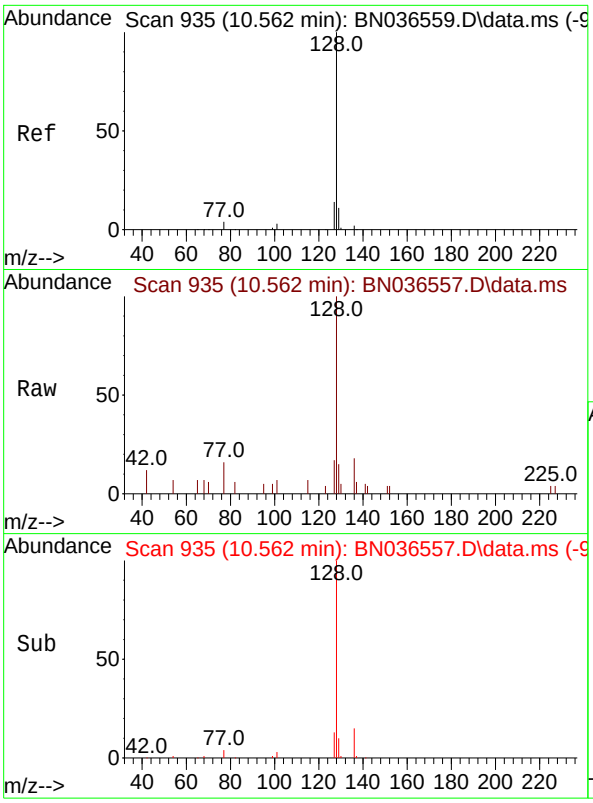


#8
Nitrobenzene-d5
Concen: 0.131 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion: 82 Resp: 940

Ion	Ratio	Lower	Upper
82	100		
128	40.7	30.6	45.8
54	70.7	52.2	78.4



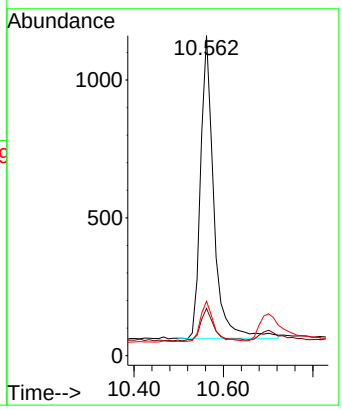


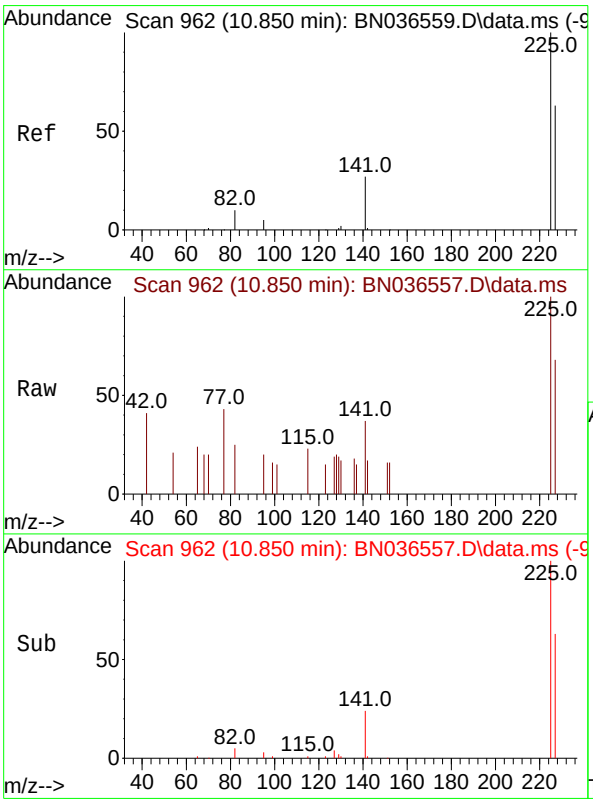
#9
Naphthalene
Concen: 0.117 ng
RT: 10.562 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:128 Resp: 2254

Ion	Ratio	Lower	Upper
128	100		
129	14.7	9.8	14.6#
127	17.0	11.8	17.8

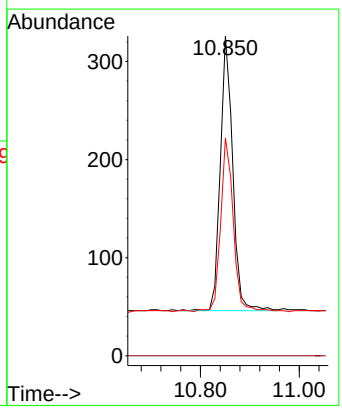


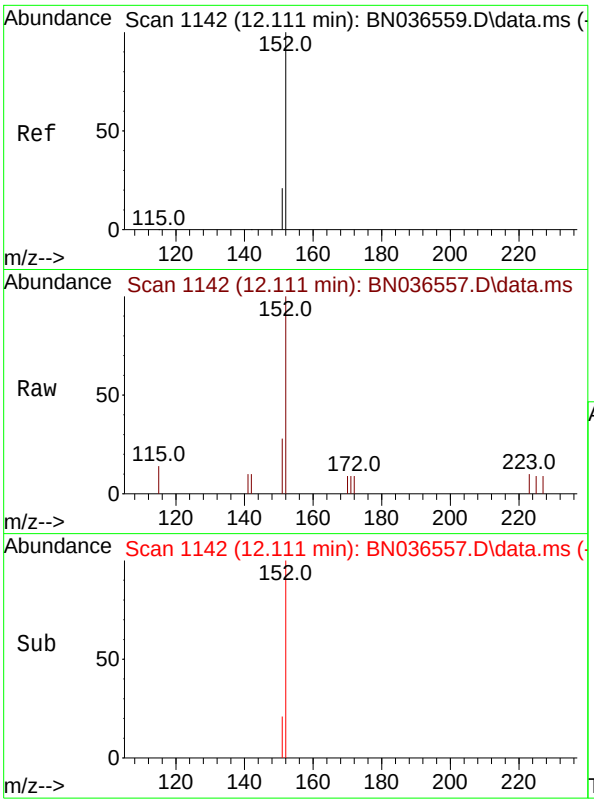


#10
Hexachlorobutadiene
Concen: 0.107 ng
RT: 10.850 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:225 Resp: 486

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.8	51.8	77.8



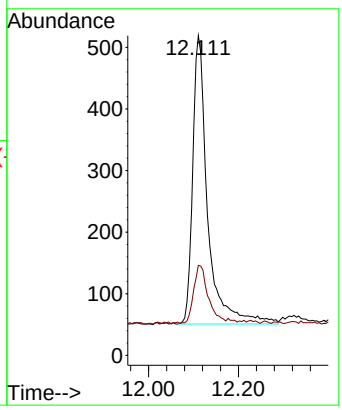


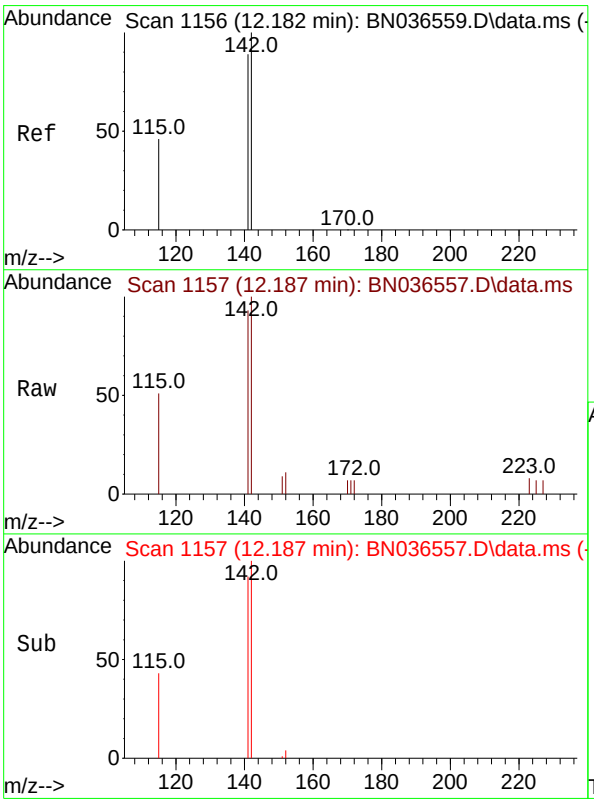
#11
2-Methylnaphthalene-d10
Concen: 0.110 ng
RT: 12.111 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:152 Resp: 1079

Ion	Ratio	Lower	Upper
152	100		
151	19.5	17.0	25.6

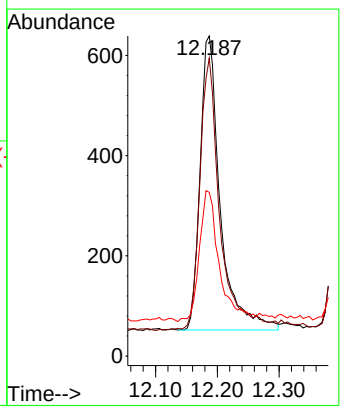


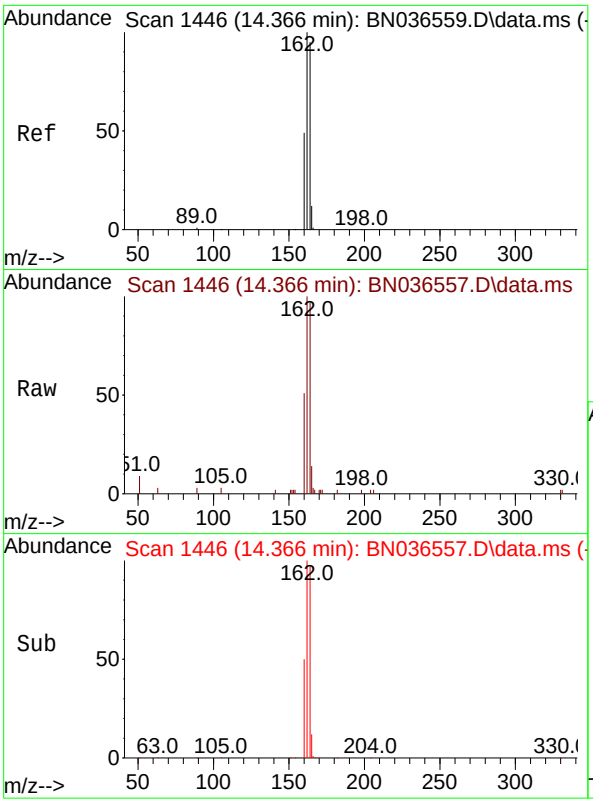


#12
2-Methylnaphthalene
Concen: 0.108 ng
RT: 12.187 min Scan# 1157
Delta R.T. 0.005 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:142 Resp: 1331

Ion	Ratio	Lower	Upper
142	100		
141	93.1	71.7	107.5
115	51.2	38.3	57.5



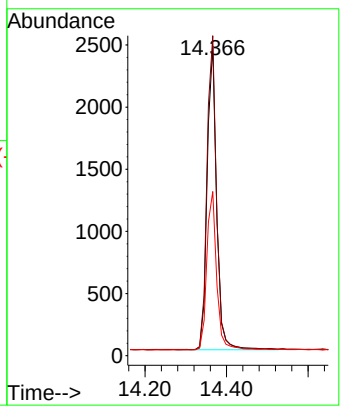


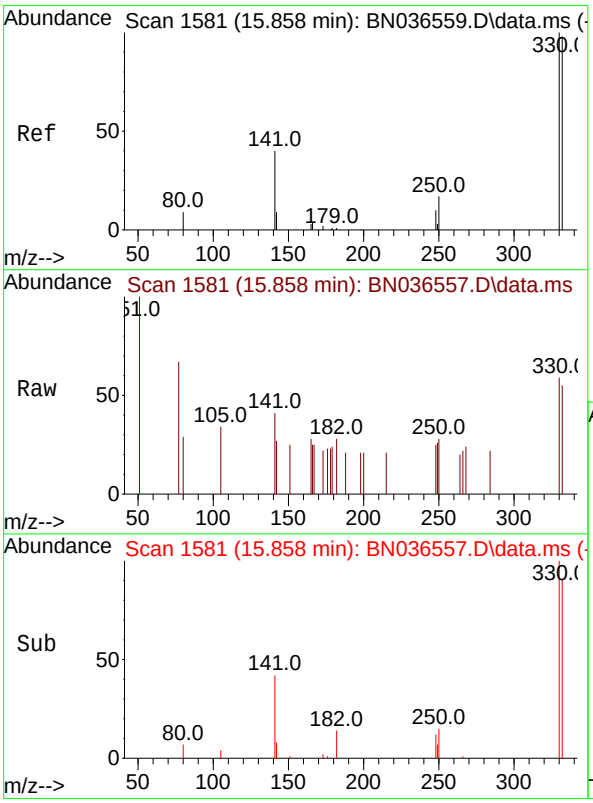
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:164 Resp: 3958

Ion	Ratio	Lower	Upper
164	100		
162	103.3	84.2	126.2
160	53.0	42.2	63.2

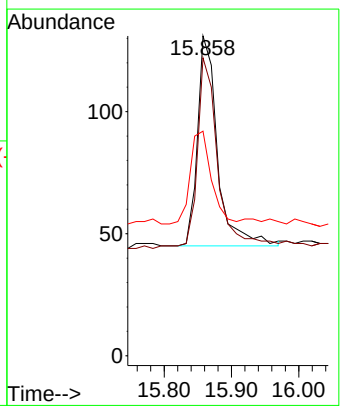


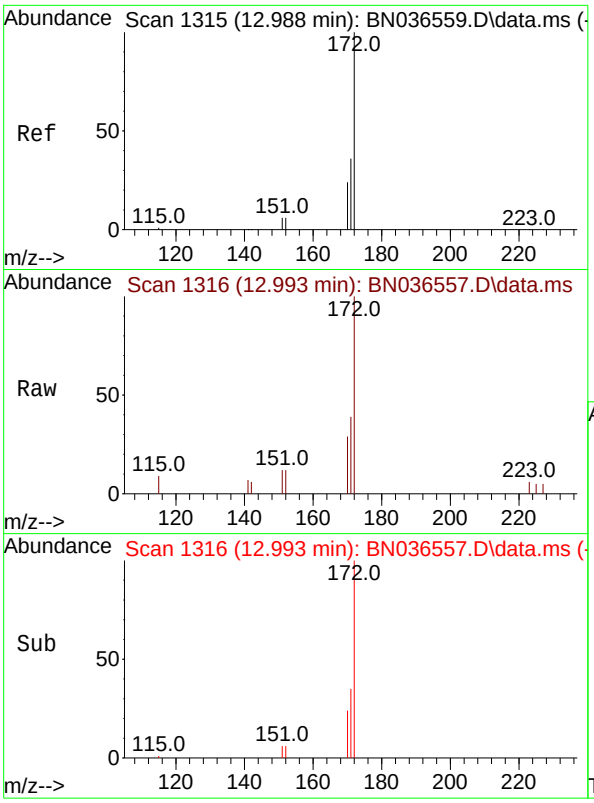


#14
2,4,6-Tribromophenol
Concen: 0.100 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:330 Resp: 179

Ion	Ratio	Lower	Upper
330	100		
332	96.1	75.2	112.8
141	46.4	43.4	65.2



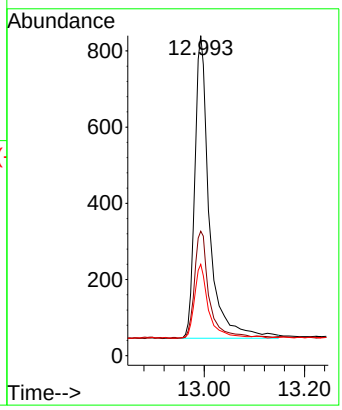


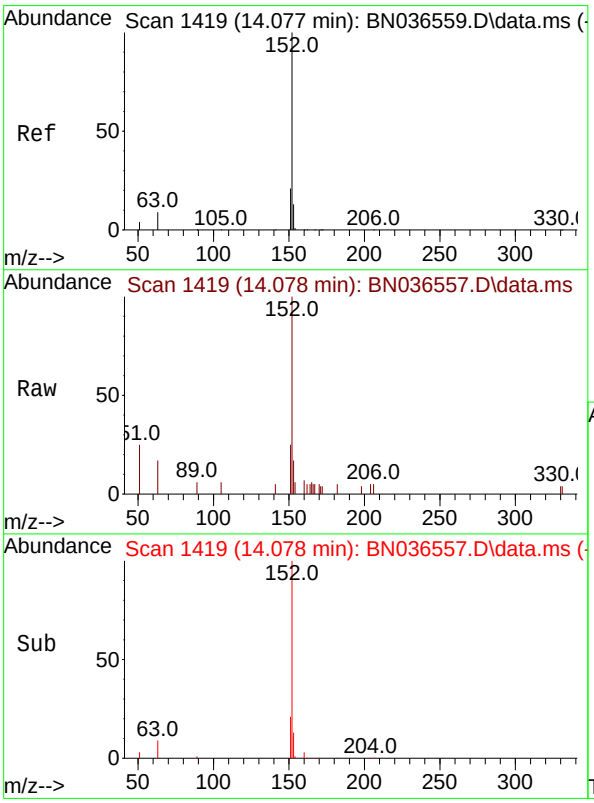
#15
2-Fluorobiphenyl
Concen: 0.095 ng
RT: 12.993 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:172 Resp: 2185

Ion	Ratio	Lower	Upper
172	100		
171	38.9	29.5	44.3
170	28.6	20.2	30.4

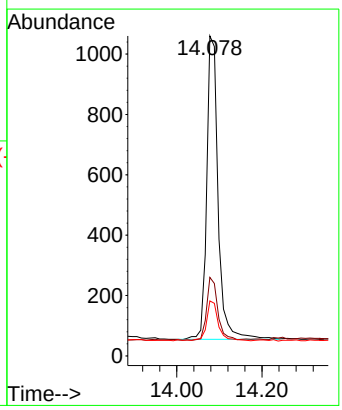


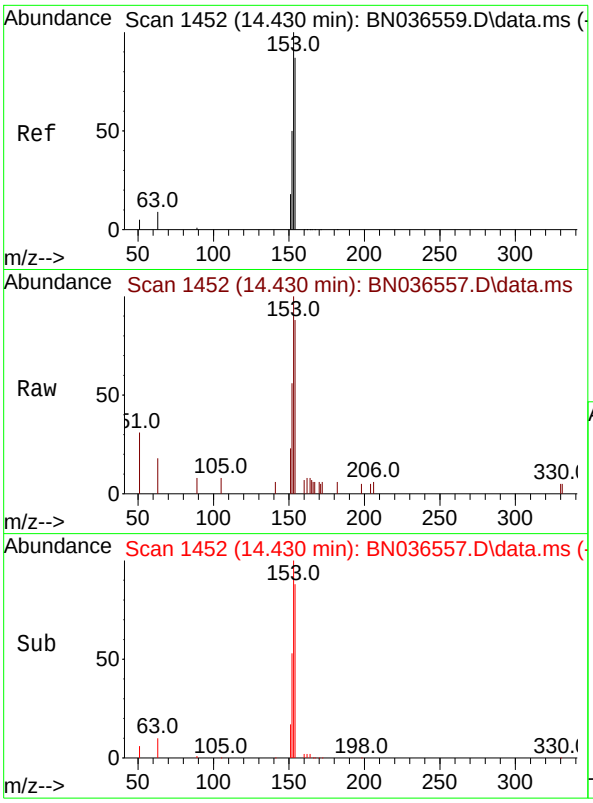


#16
Acenaphthylene
Concen: 0.100 ng
RT: 14.078 min Scan# 1419
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:152 Resp: 1862

Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.2	24.4
153	14.1	10.6	15.8



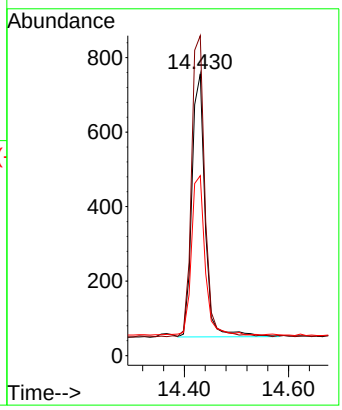


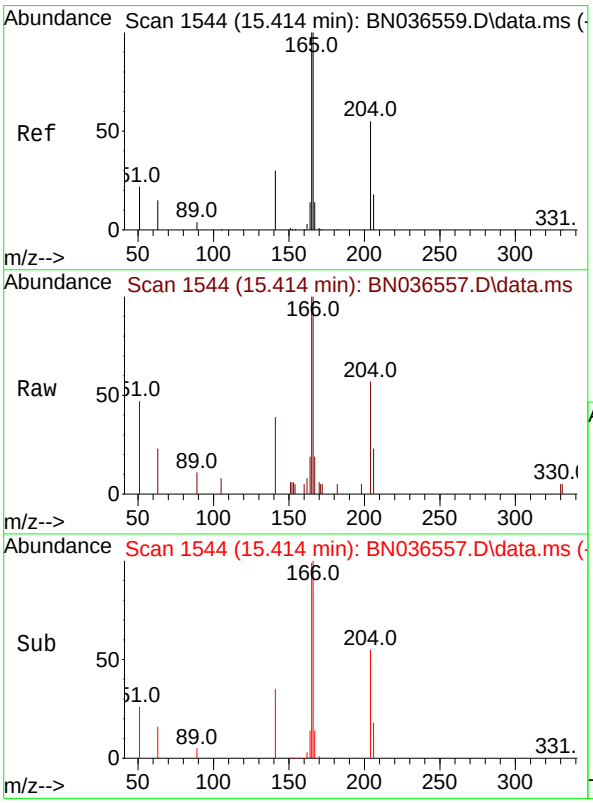
#17
Acenaphthene
Concen: 0.102 ng
RT: 14.430 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:154 Resp: 1244

Ion	Ratio	Lower	Upper
154	100		
153	115.9	94.1	141.1
152	62.5	49.8	74.6

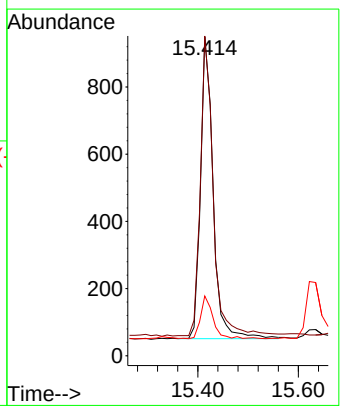


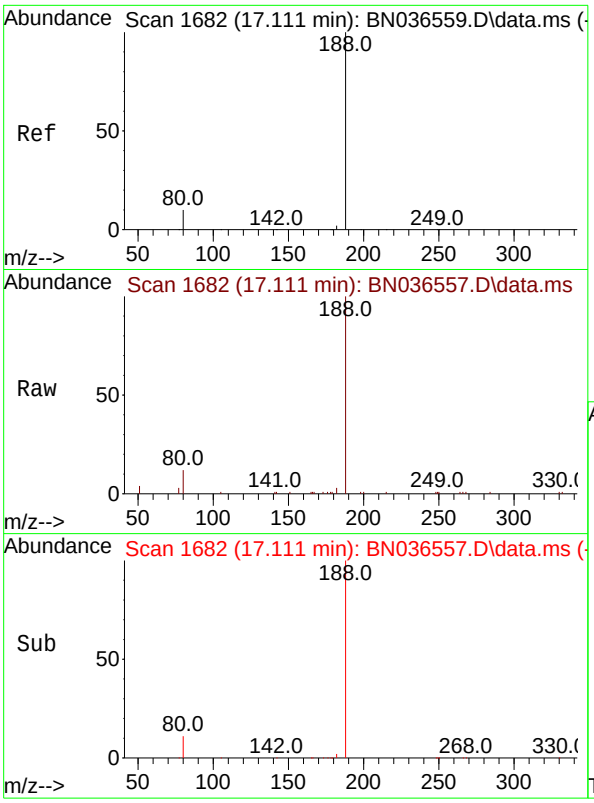


#18
Fluorene
Concen: 0.097 ng
RT: 15.414 min Scan# 1544
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:166 Resp: 1612

Ion	Ratio	Lower	Upper
166	100		
165	100.9	79.8	119.8
167	13.9	10.6	15.8



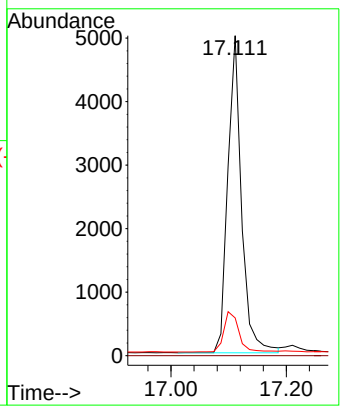


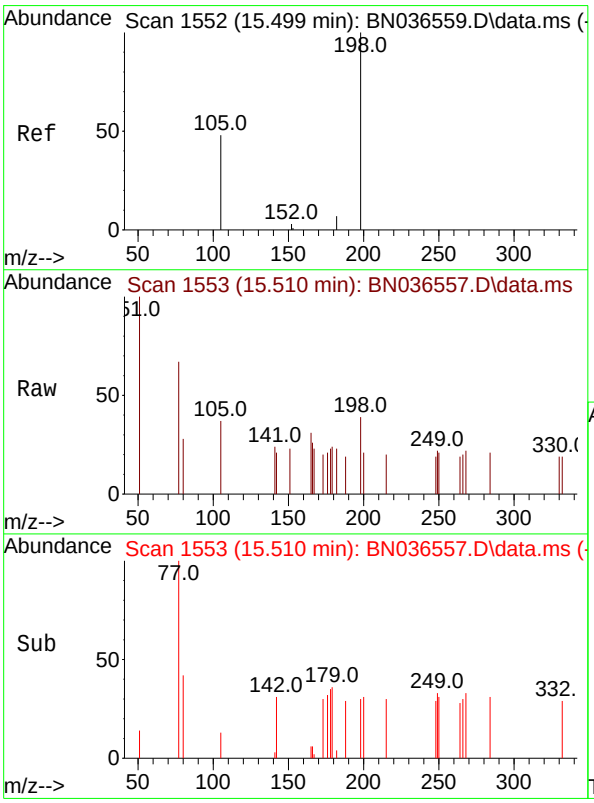
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:188 Resp: 8269

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.8	8.8	13.2

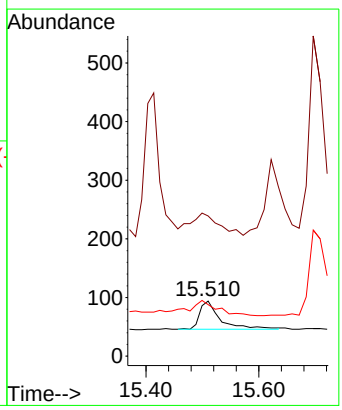


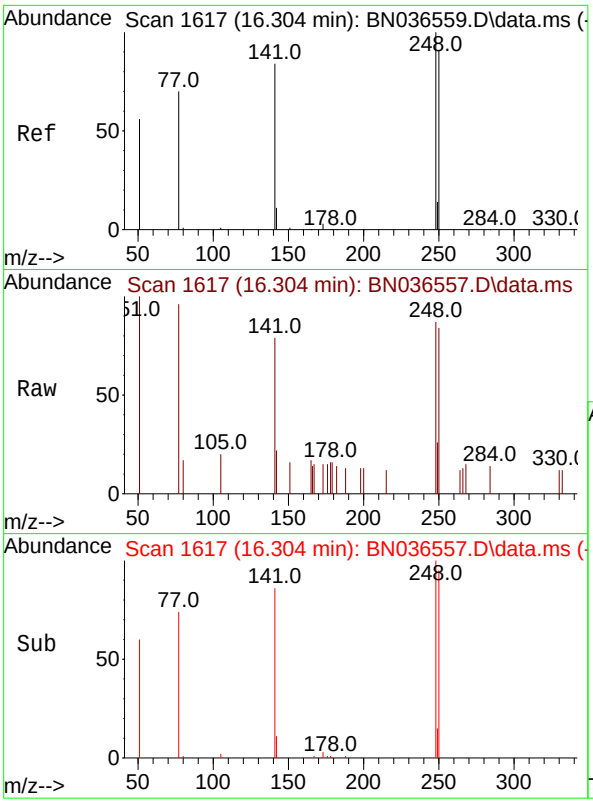


#20
4,6-Dinitro-2-methylphenol
Concen: 0.204 ng
RT: 15.510 min Scan# 1553
Delta R.T. 0.011 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:198 Resp: 122

Ion	Ratio	Lower	Upper
198	100		
51	254.3	107.9	161.9#
105	93.6	56.2	84.2#



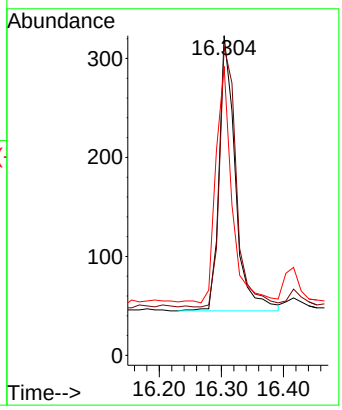


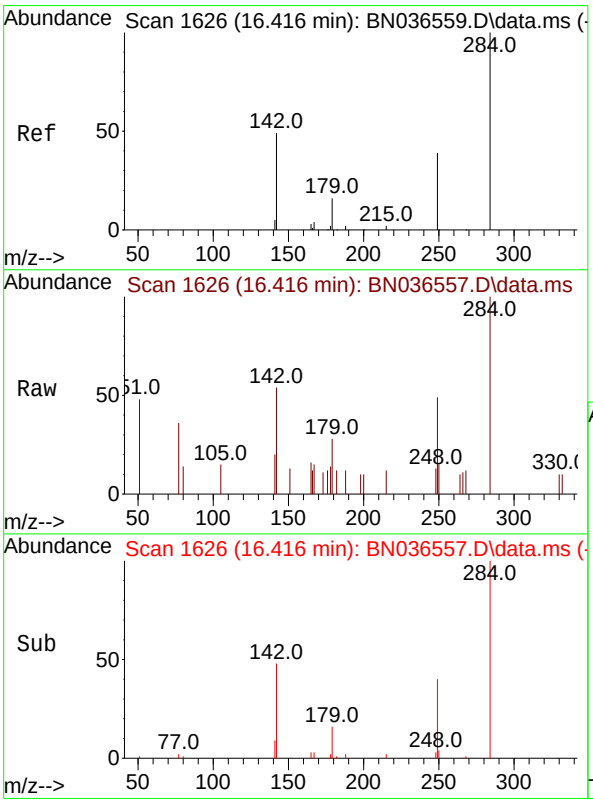
#21
4-Bromophenyl-phenylether
Concen: 0.097 ng
RT: 16.304 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:248 Resp: 502

Ion	Ratio	Lower	Upper
248	100		
250	96.6	73.0	109.6
141	90.4	68.6	103.0

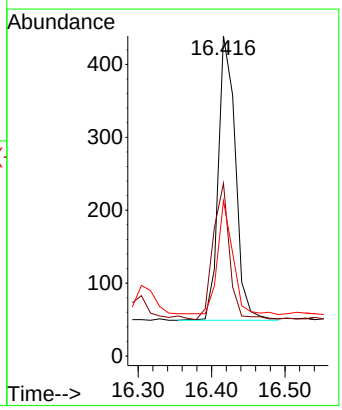


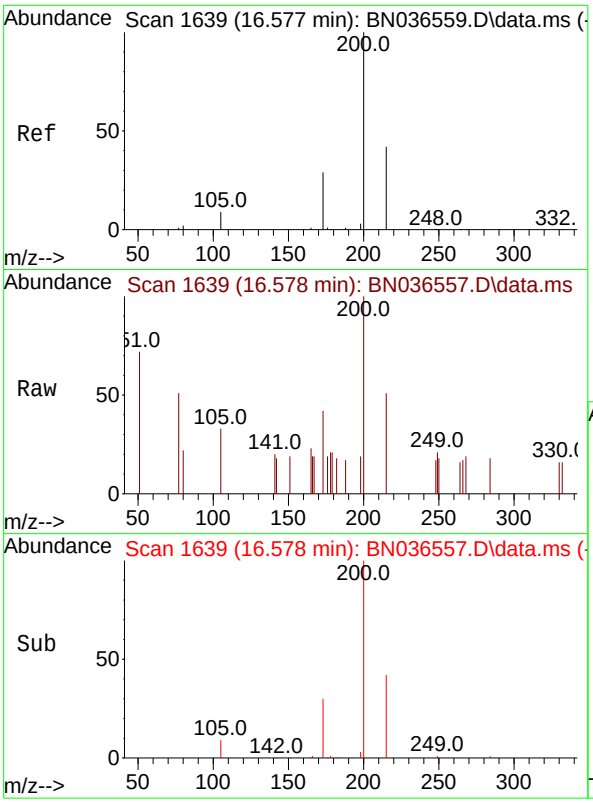


#22
Hexachlorobenzene
Concen: 0.101 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:284 Resp: 632

Ion	Ratio	Lower	Upper
284	100		
142	45.7	37.0	55.4
249	37.2	28.1	42.1



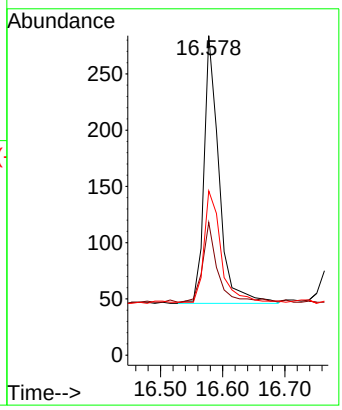


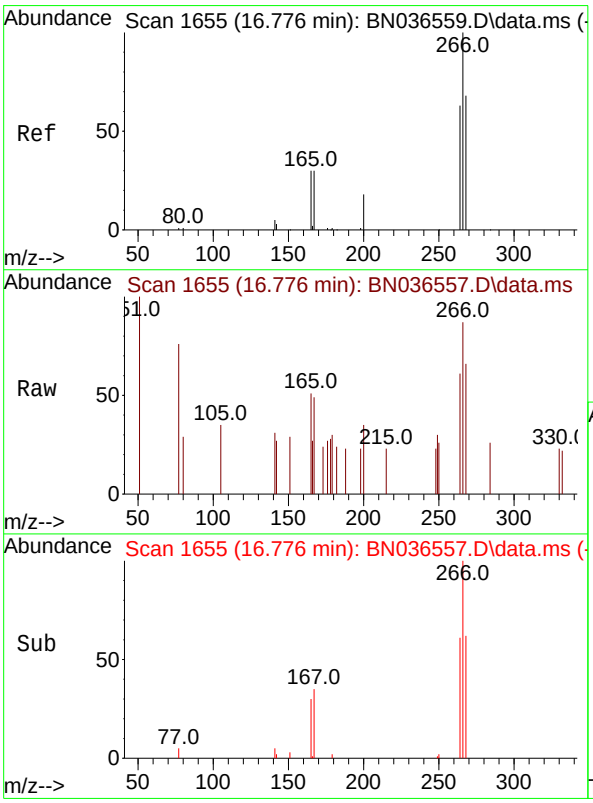
#23
Atrazine
Concen: 0.096 ng
RT: 16.578 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:200 Resp: 400

Ion	Ratio	Lower	Upper
200	100		
173	41.5	27.3	40.9#
215	51.4	36.8	55.2

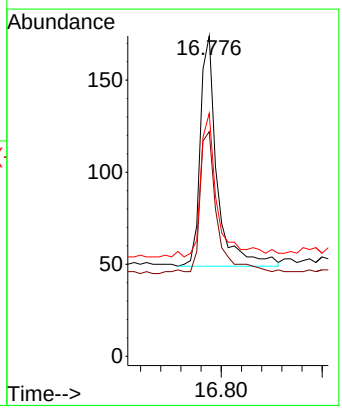


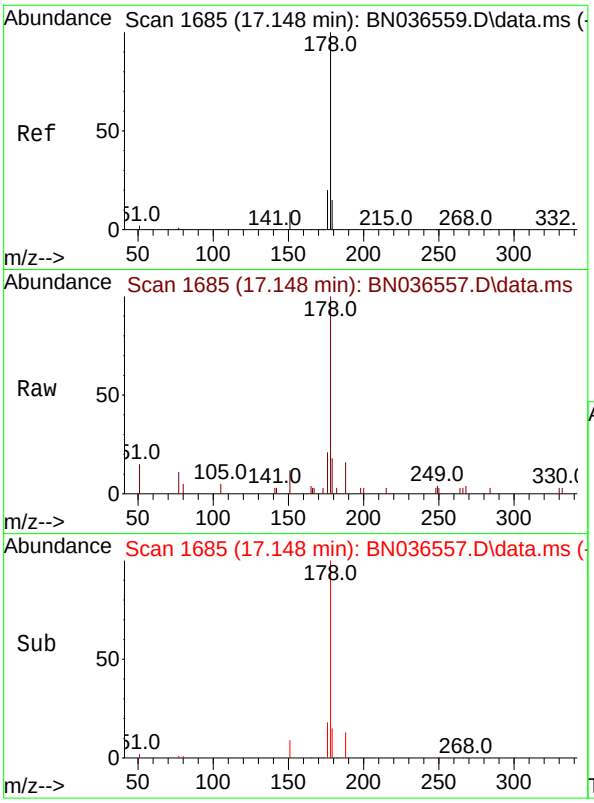


#24
Pentachlorophenol
Concen: 0.102 ng
RT: 16.776 min Scan# 1655
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:266 Resp: 290

Ion	Ratio	Lower	Upper
266	100		
264	64.8	49.6	74.4
268	62.8	50.9	76.3



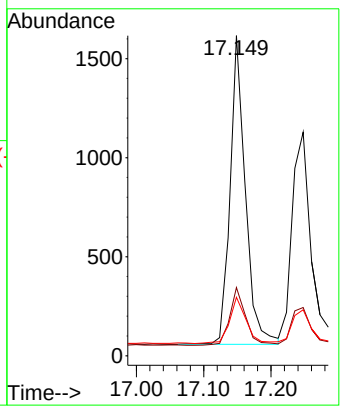


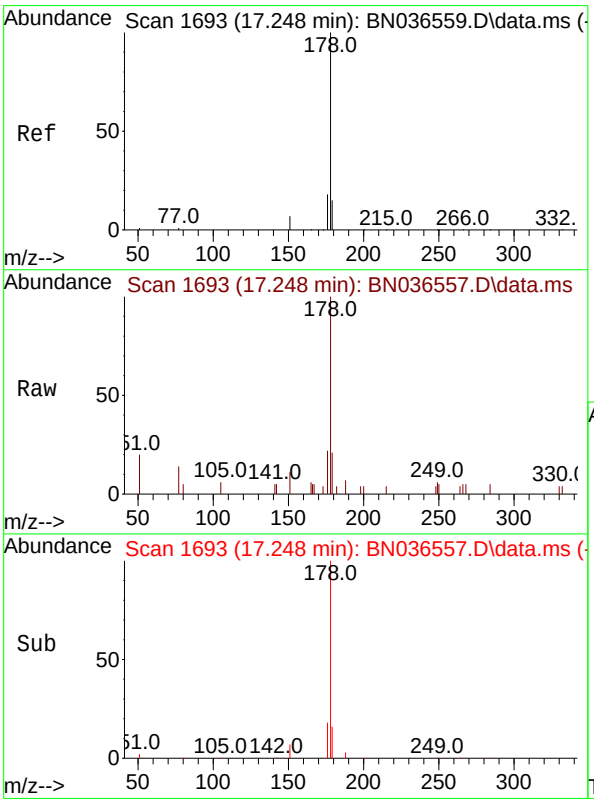
#25
Phenanthrene
Concen: 0.099 ng
RT: 17.148 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:178 Resp: 2459

Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.9	23.9
179	16.1	12.2	18.4

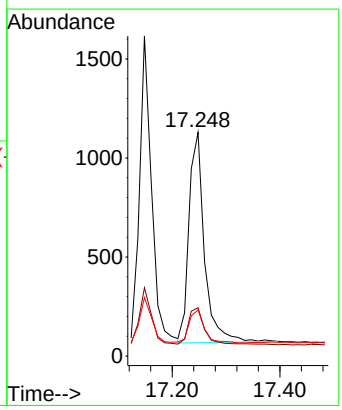


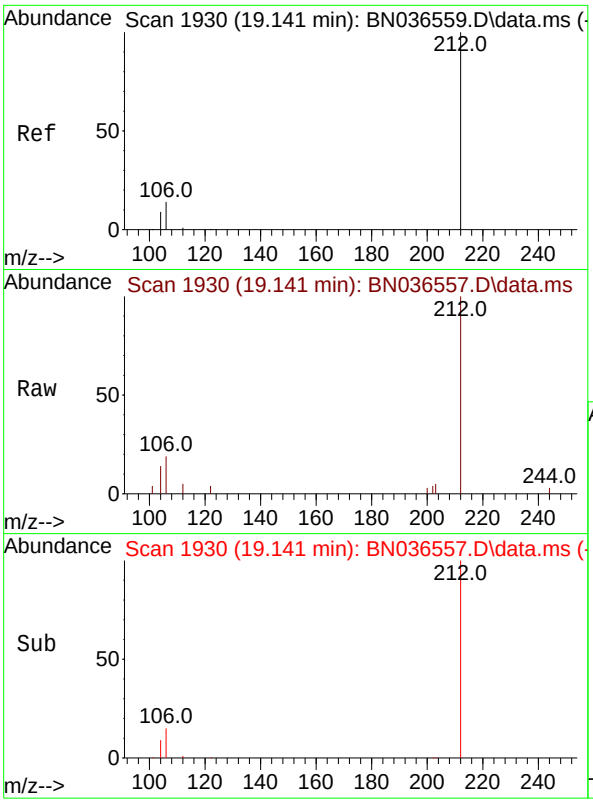


#26
Anthracene
Concen: 0.095 ng
RT: 17.248 min Scan# 1693
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:178 Resp: 2121

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.4	23.2
179	15.7	12.6	18.8



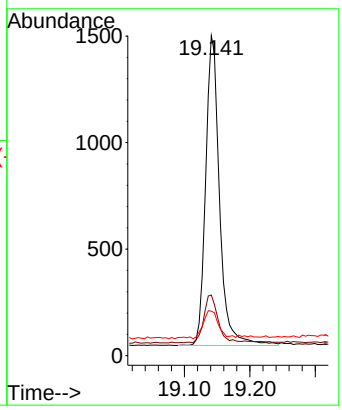


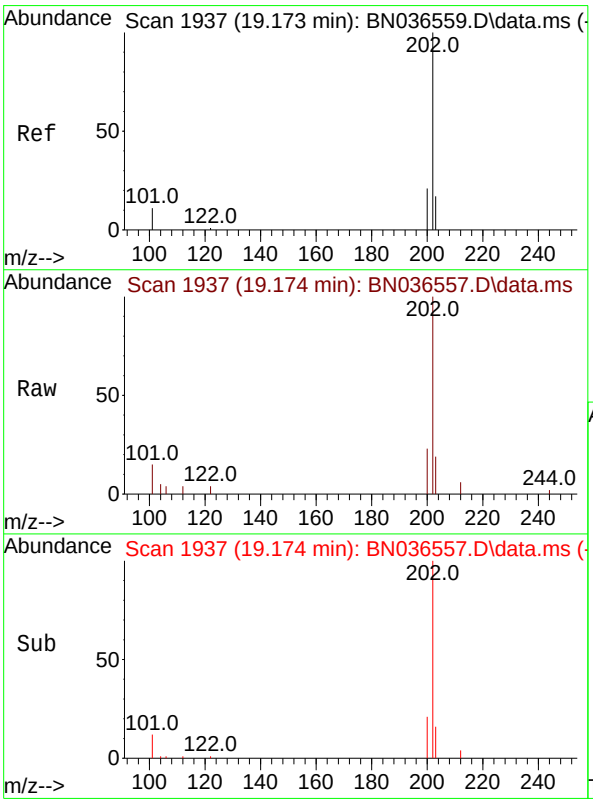
#27
Fluoranthene-d10
Concen: 0.101 ng
RT: 19.141 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:212 Resp: 2144

Ion	Ratio	Lower	Upper
212	100		
106	15.5	11.8	17.6
104	9.7	7.3	10.9

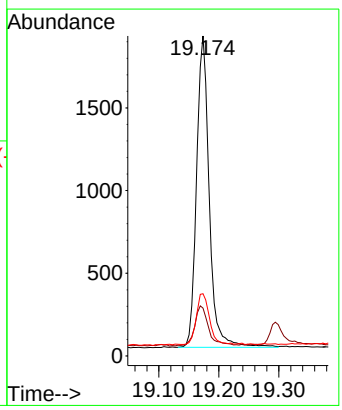


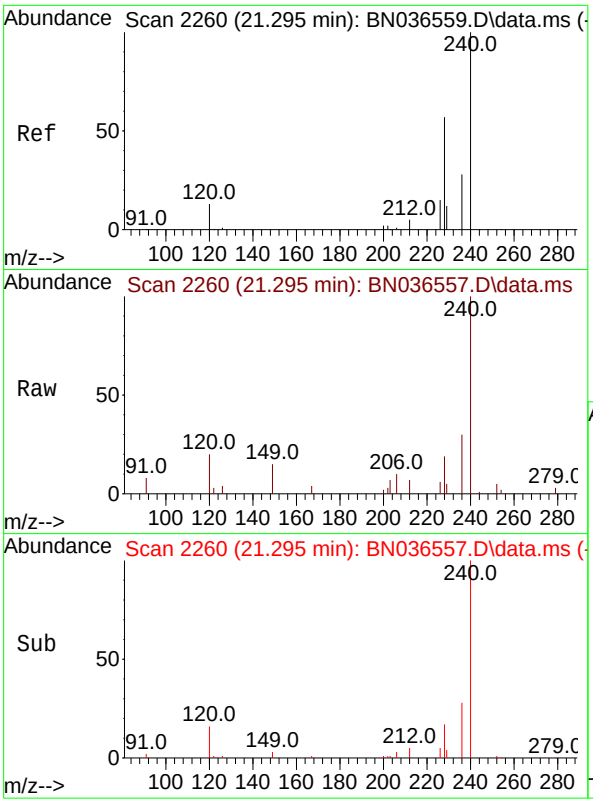


#28
Fluoranthene
Concen: 0.099 ng
RT: 19.174 min Scan# 1937
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:202 Resp: 2772

Ion	Ratio	Lower	Upper
202	100		
101	14.0	9.4	14.0
203	17.0	13.5	20.3



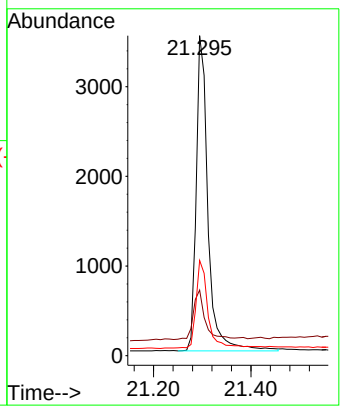


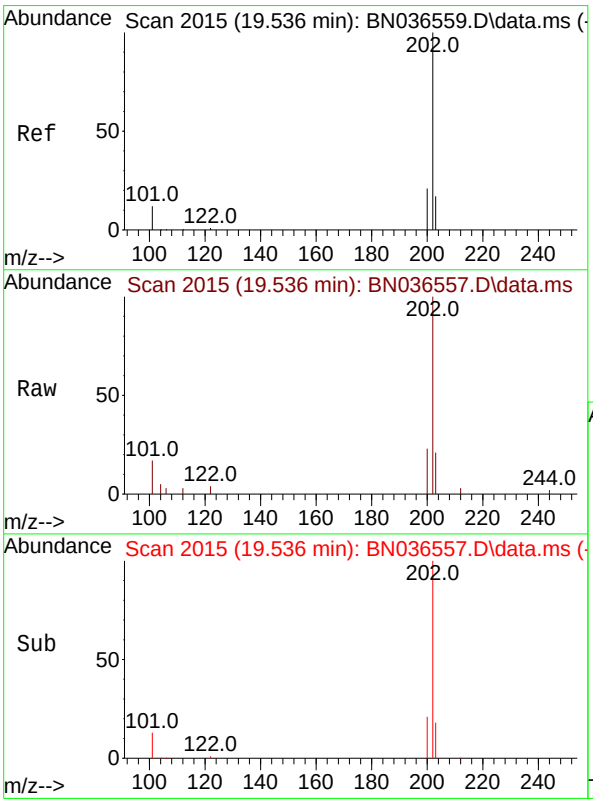
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:240 Resp: 5886

Ion	Ratio	Lower	Upper
240	100		
120	20.5	14.6	22.0
236	29.8	24.1	36.1

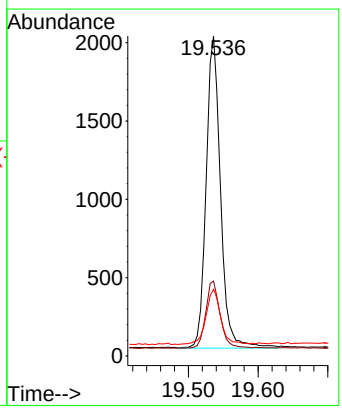


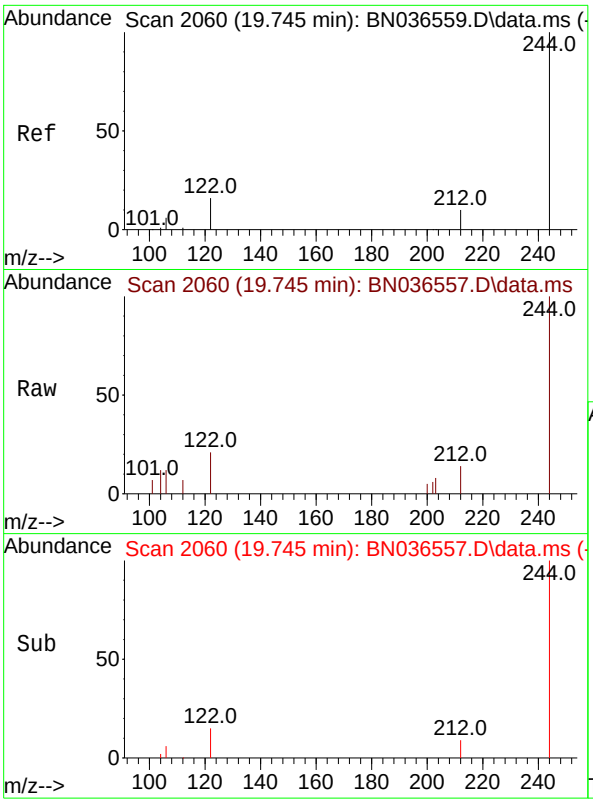


#30
Pyrene
Concen: 0.099 ng
RT: 19.536 min Scan# 2015
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:202 Resp: 2862

Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.1	25.7
203	17.9	14.1	21.1



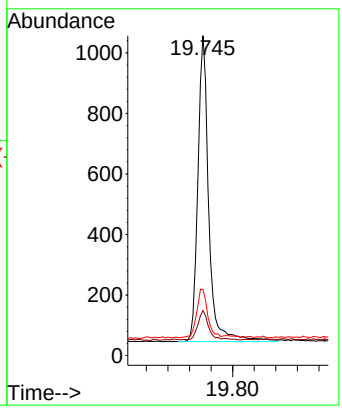


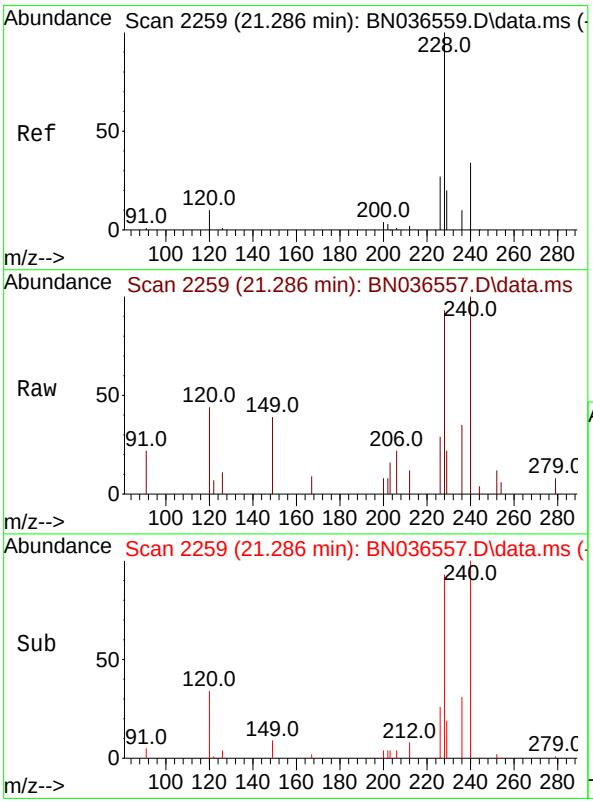
#31
Terphenyl-d14
Concen: 0.100 ng
RT: 19.745 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:244 Resp: 1416

Ion	Ratio	Lower	Upper
244	100		
212	14.1	9.6	14.4
122	20.6	13.9	20.9

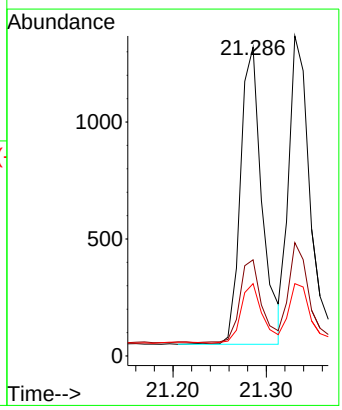


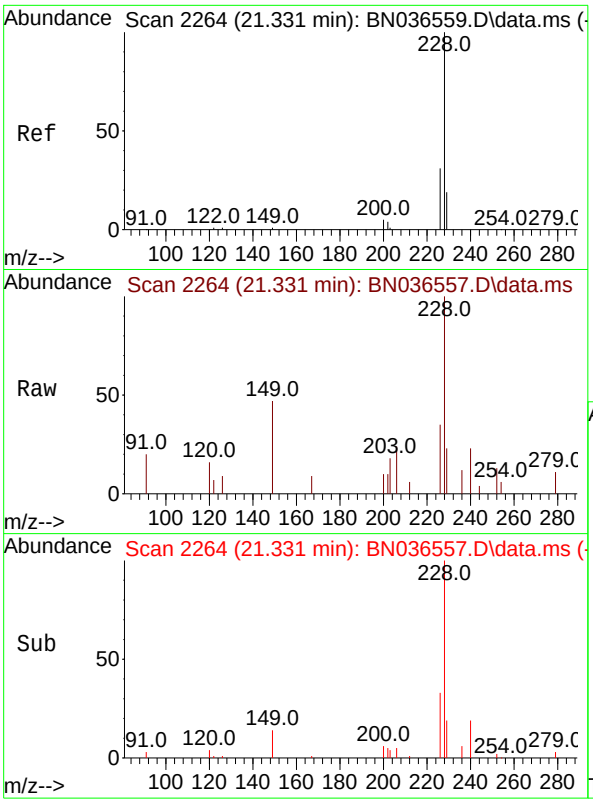


#32
Benzo(a)anthracene
Concen: 0.100 ng
RT: 21.286 min Scan# 2259
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:228 Resp: 2044

Ion	Ratio	Lower	Upper
228	100		
226	31.1	22.5	33.7
229	23.4	16.6	25.0



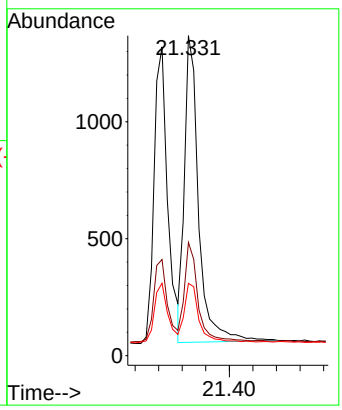


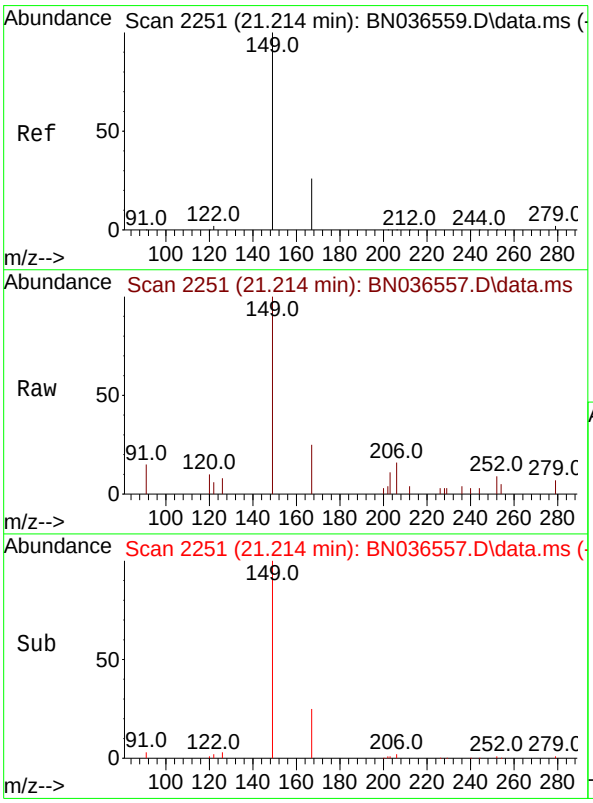
#33
Chrysene
Concen: 0.098 ng
RT: 21.331 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:228 Resp: 2187

Ion	Ratio	Lower	Upper
228	100		
226	35.4	25.3	37.9
229	22.6	15.8	23.8

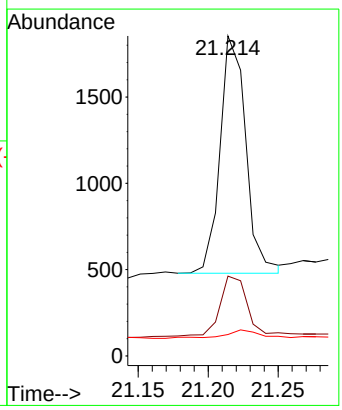


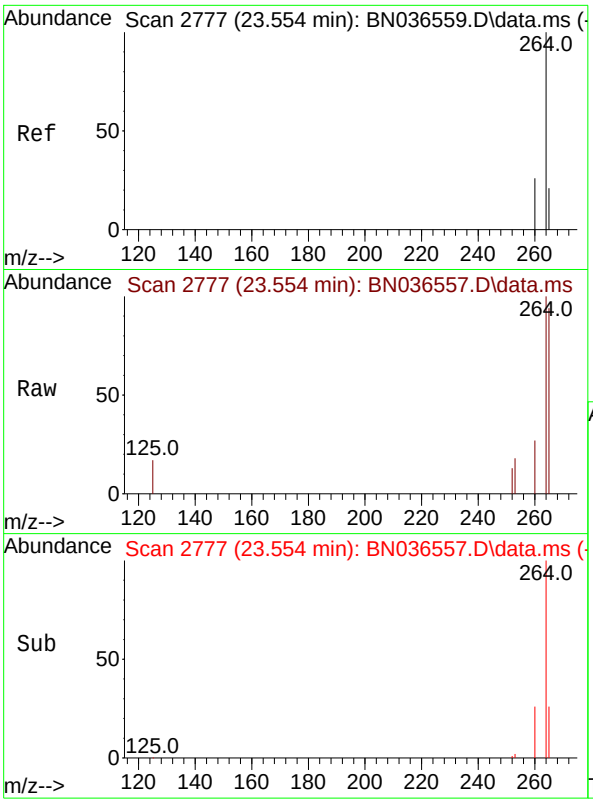


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.121 ng
RT: 21.214 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:149 Resp: 1760

Ion	Ratio	Lower	Upper
149	100		
167	27.9	20.7	31.1
279	4.9	3.6	5.4



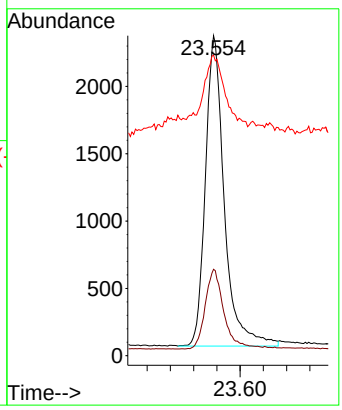


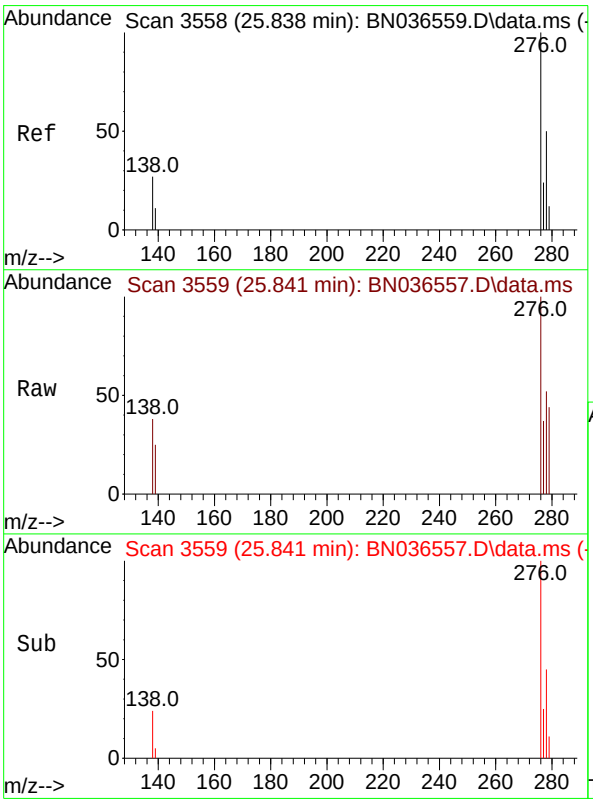
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.554 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:264 Resp: 5207

Ion	Ratio	Lower	Upper
264	100		
260	27.0	22.6	33.8
265	93.9	88.1	132.1

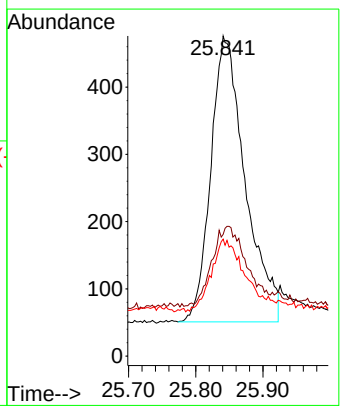


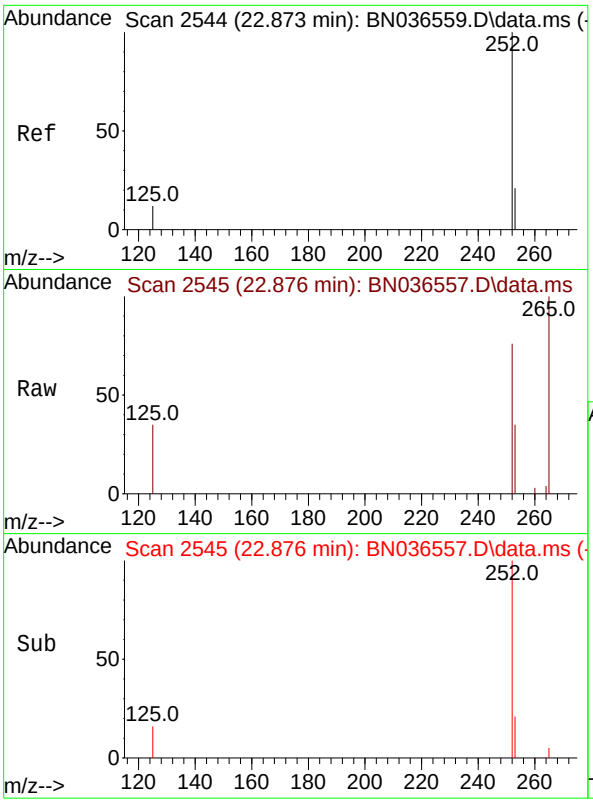


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.080 ng
RT: 25.841 min Scan# 3559
Delta R.T. 0.003 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:276 Resp: 1510

Ion	Ratio	Lower	Upper
276	100		
138	27.6	23.4	35.2
277	24.2	20.0	30.0



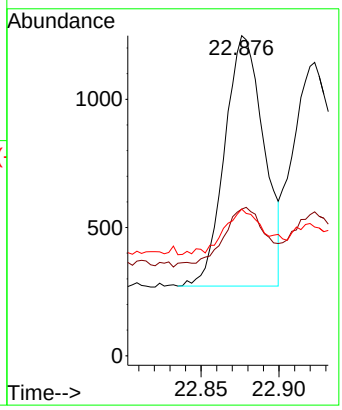


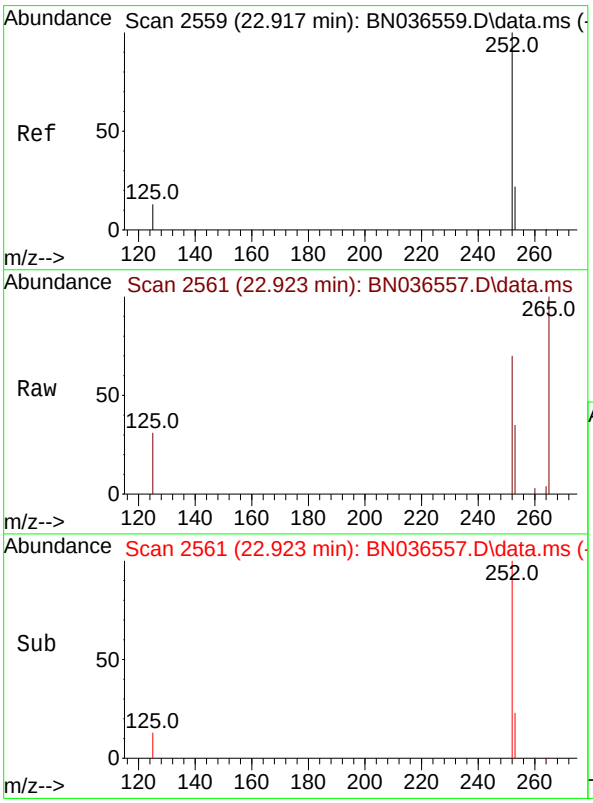
#37
Benzo(b)fluoranthene
Concen: 0.090 ng
RT: 22.876 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:252 Resp: 1707

Ion	Ratio	Lower	Upper
252	100		
253	45.8	23.9	35.9#
125	45.8	17.4	26.2#

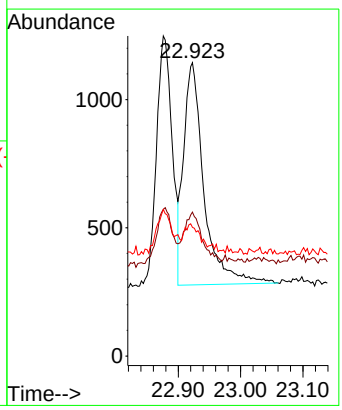


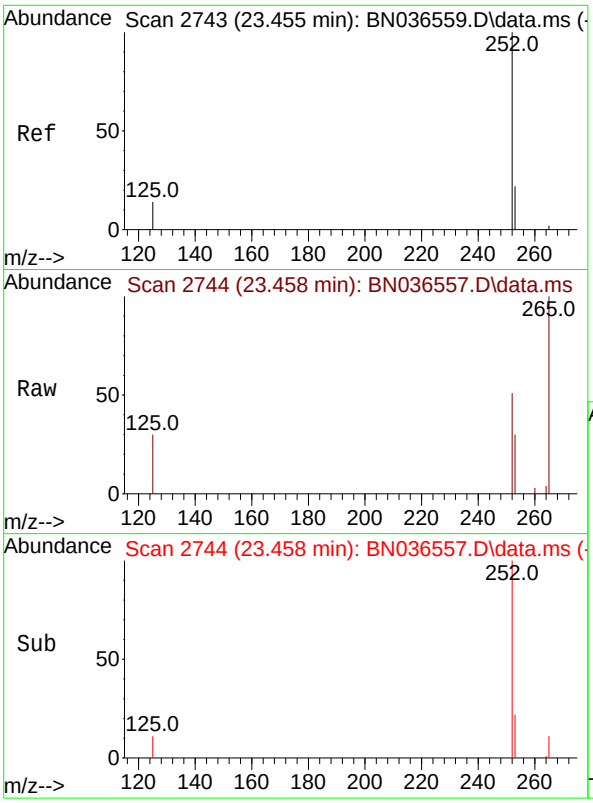


#38
Benzo(k)fluoranthene
Concen: 0.098 ng
RT: 22.923 min Scan# 2561
Delta R.T. 0.006 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:252 Resp: 1958

Ion	Ratio	Lower	Upper
252	100		
253	49.0	24.6	36.8#
125	43.9	17.8	26.8#



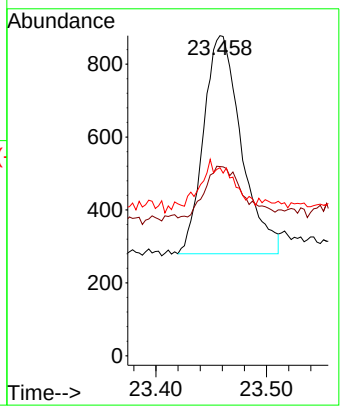


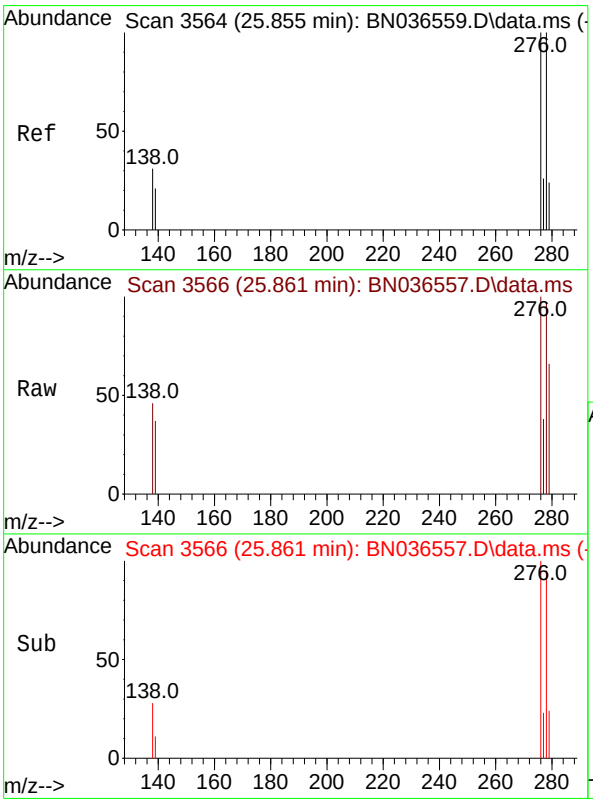
#39
Benzo(a)pyrene
Concen: 0.089 ng
RT: 23.458 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:252 Resp: 1419

Ion	Ratio	Lower	Upper
252	100		
253	59.1	27.8	41.8#
125	58.8	22.7	34.1#

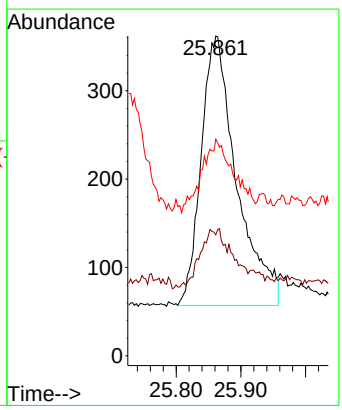


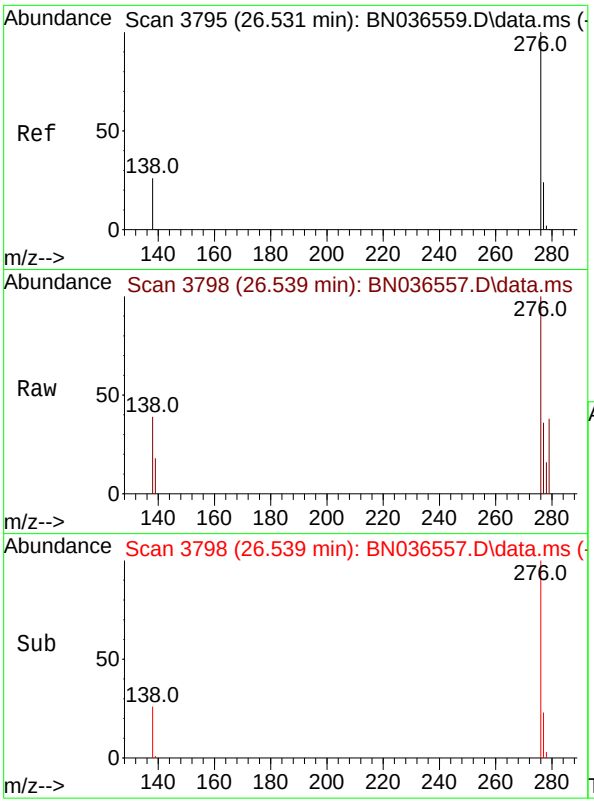


#40
Dibenzo(a,h)anthracene
Concen: 0.079 ng
RT: 25.861 min Scan# 3566
Delta R.T. 0.006 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:278 Resp: 1163

Ion	Ratio	Lower	Upper
278	100		
139	37.8	20.8	31.2#
279	67.7	28.8	43.2#



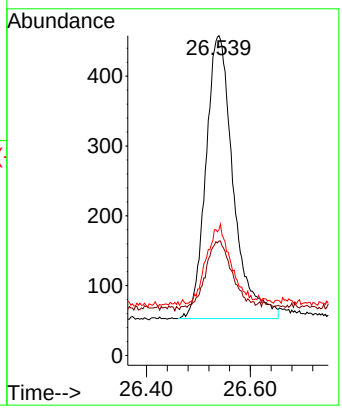


#41
Benzo(g,h,i)perylene
Concen: 0.089 ng
RT: 26.539 min Scan# 3
Delta R.T. 0.009 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:276 Resp: 1482

Ion	Ratio	Lower	Upper
276	100		
277	35.8	22.2	33.4#
138	39.3	24.1	36.1#



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036558.D
Acq On : 10 Mar 2025 12:18
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Quant Time: Mar 10 16:00:58 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:54:23 2025
Response via : Initial Calibration

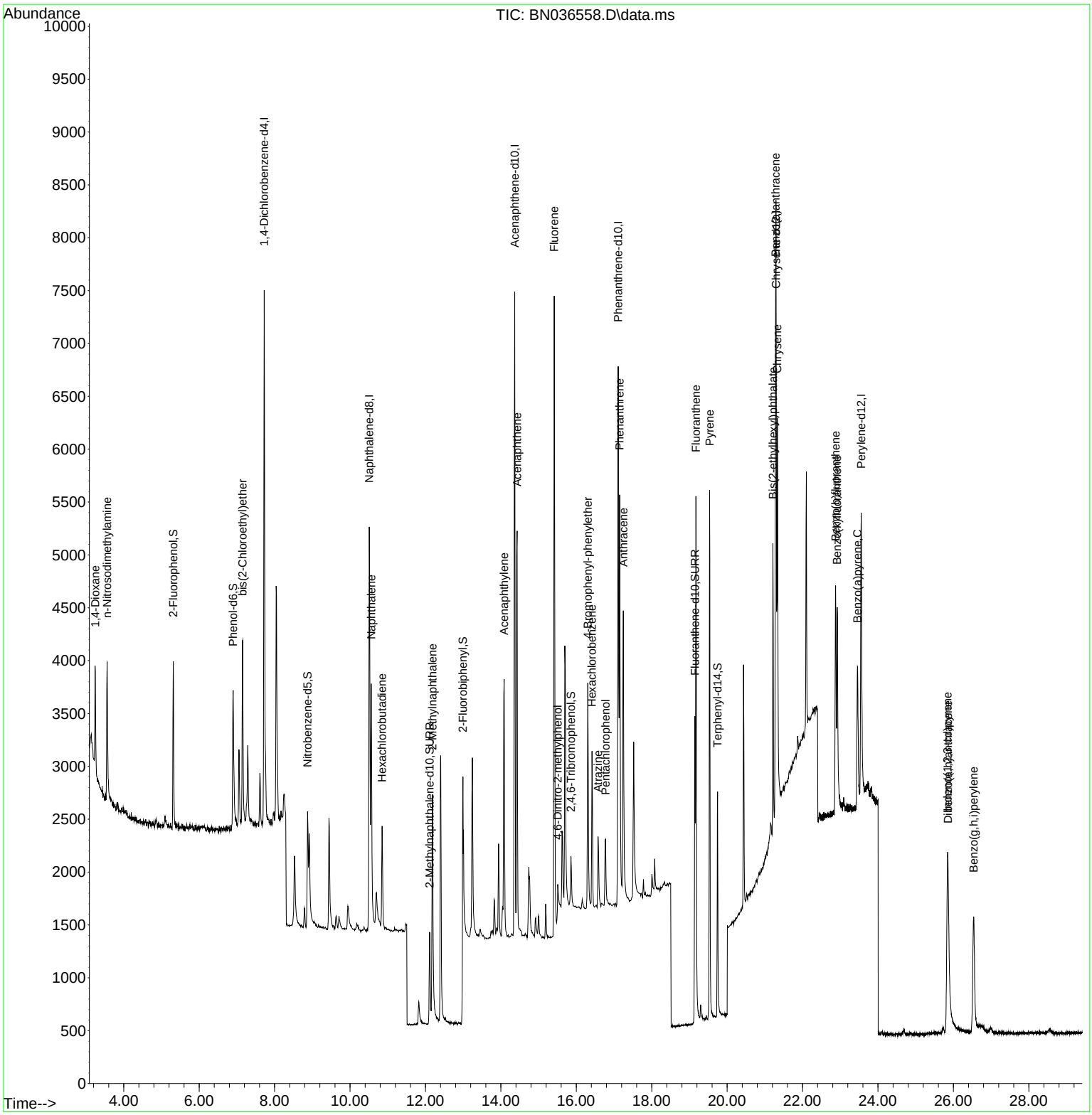
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.724	152	2504	0.400	ng		0.00
7) Naphthalene-d8	10.509	136	5844	0.400	ng		0.00
13) Acenaphthene-d10	14.366	164	3516	0.400	ng		0.00
19) Phenanthrene-d10	17.111	188	7506	0.400	ng		0.00
29) Chrysene-d12	21.295	240	4730	0.400	ng		0.00
35) Perylene-d12	23.554	264	4241	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.312	112	1137	0.195	ng		0.00
5) Phenol-d6	6.901	99	1323	0.184	ng		0.00
8) Nitrobenzene-d5	8.875	82	1156	0.182	ng		0.00
11) 2-Methylnaphthalene-d10	12.111	152	1603	0.184	ng		0.00
14) 2,4,6-Tribromophenol	15.858	330	282	0.177	ng		0.00
15) 2-Fluorobiphenyl	12.993	172	3485	0.170	ng		0.00
27) Fluoranthene-d10	19.146	212	3583	0.186	ng		0.00
31) Terphenyl-d14	19.745	244	2283	0.201	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.247	88	700	0.252	ng		91
3) n-Nitrosodimethylamine	3.557	42	1094	0.195	ng		92
6) bis(2-Chloroethyl)ether	7.154	93	1440	0.193	ng		99
9) Naphthalene	10.562	128	3286	0.191	ng		97
10) Hexachlorobutadiene	10.850	225	828	0.205	ng	#	97
12) 2-Methylnaphthalene	12.187	142	2034	0.186	ng		97
16) Acenaphthylene	14.088	152	3087	0.186	ng		100
17) Acenaphthene	14.430	154	2038	0.188	ng		99
18) Fluorene	15.414	166	2813	0.191	ng		99
20) 4,6-Dinitro-2-methylph...	15.510	198	214	0.258	ng	#	69
21) 4-Bromophenyl-phenylether	16.304	248	853	0.181	ng		93
22) Hexachlorobenzene	16.416	284	1079	0.190	ng		99
23) Atrazine	16.578	200	716	0.190	ng		97
24) Pentachlorophenol	16.776	266	435	0.168	ng		98
25) Phenanthrene	17.148	178	4171	0.185	ng		100
26) Anthracene	17.248	178	3645	0.179	ng		99
28) Fluoranthene	19.174	202	4666	0.184	ng		99
30) Pyrene	19.536	202	4742	0.205	ng		100
32) Benzo(a)anthracene	21.286	228	3111	0.189	ng		97
33) Chrysene	21.331	228	3568	0.199	ng		97
34) Bis(2-ethylhexyl)phtha...	21.214	149	2601	0.222	ng	#	97
36) Indeno(1,2,3-cd)pyrene	25.844	276	2790	0.182	ng		98
37) Benzo(b)fluoranthene	22.876	252	2883	0.187	ng	#	83
38) Benzo(k)fluoranthene	22.917	252	2962	0.183	ng	#	86
39) Benzo(a)pyrene	23.458	252	2443	0.188	ng	#	76
40) Dibenzo(a,h)anthracene	25.858	278	2080	0.175	ng	#	83
41) Benzo(g,h,i)perylene	26.536	276	2573	0.189	ng		95

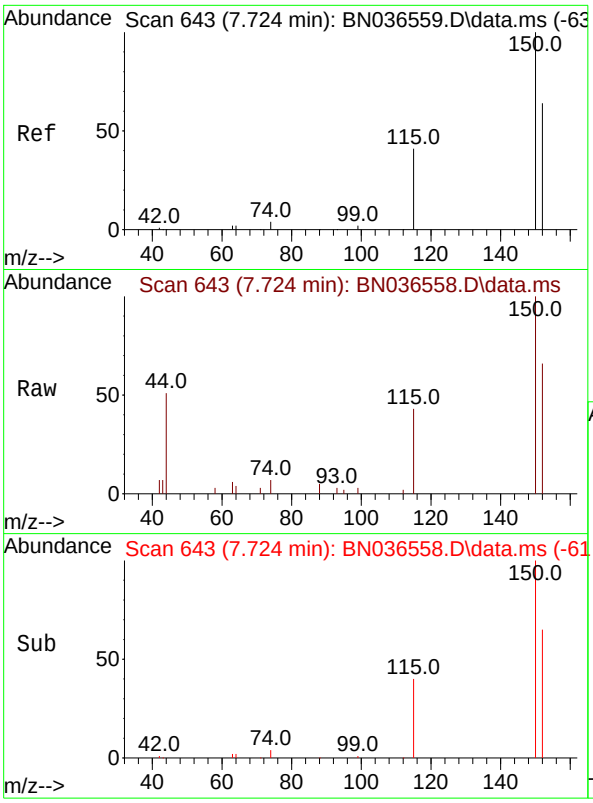
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036558.D
Acq On : 10 Mar 2025 12:18
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Quant Time: Mar 10 16:00:58 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:54:23 2025
Response via : Initial Calibration



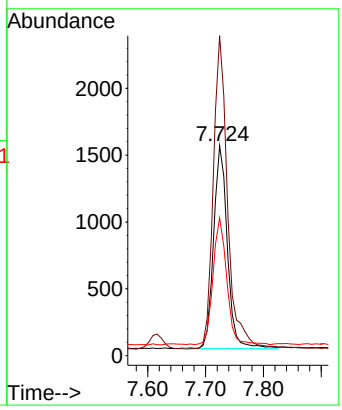


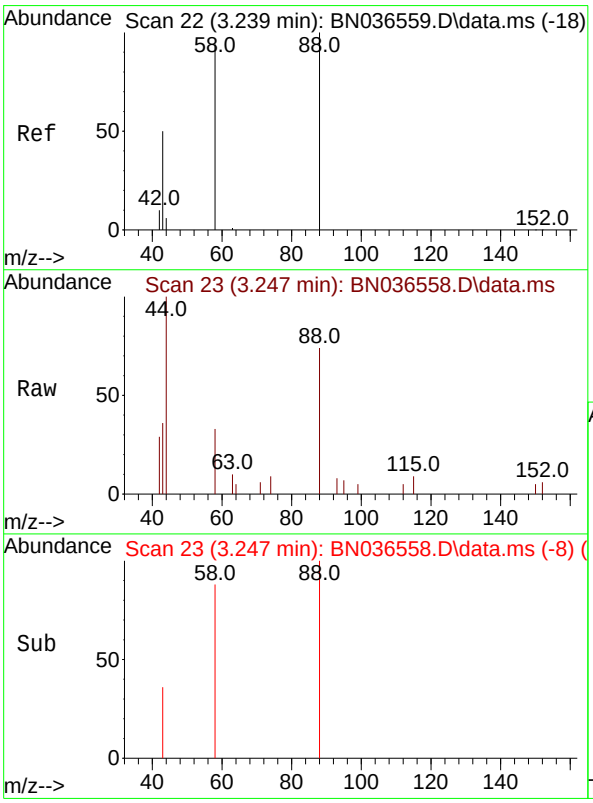
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:152 Resp: 2504

Ion	Ratio	Lower	Upper
152	100		
150	152.3	123.7	185.5
115	65.5	54.3	81.5

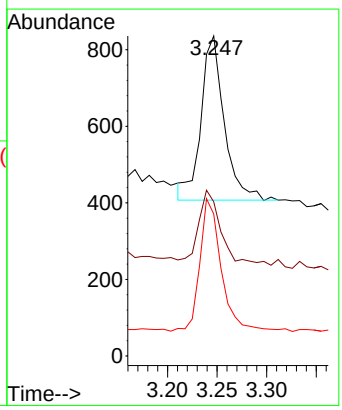


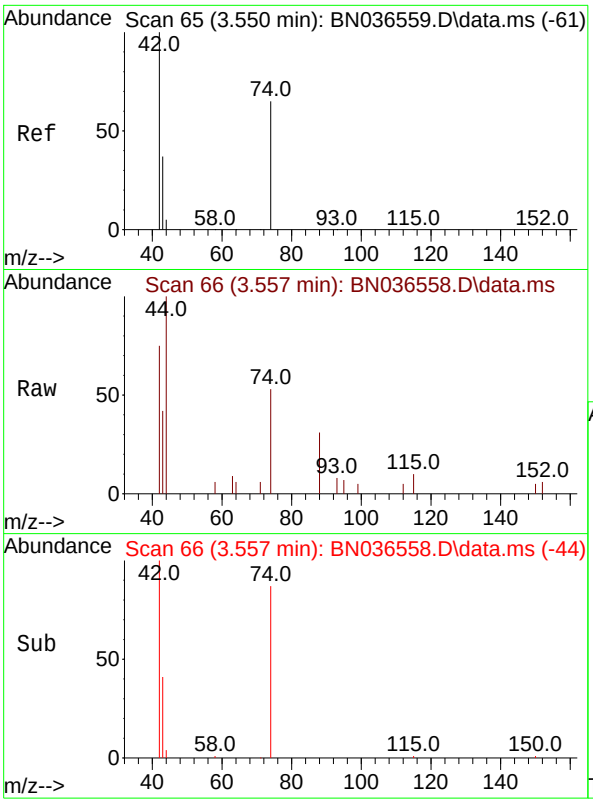


#2
1,4-Dioxane
Concen: 0.252 ng
RT: 3.247 min Scan# 23
Delta R.T. 0.007 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion: 88 Resp: 700

Ion	Ratio	Lower	Upper
88	100		
43	44.4	37.8	56.8
58	73.7	67.4	101.2



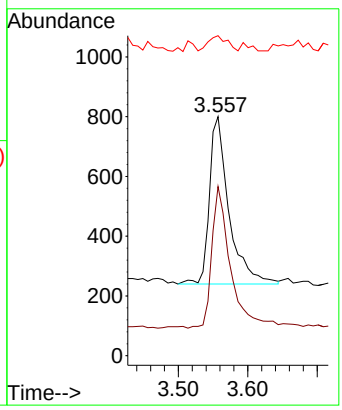


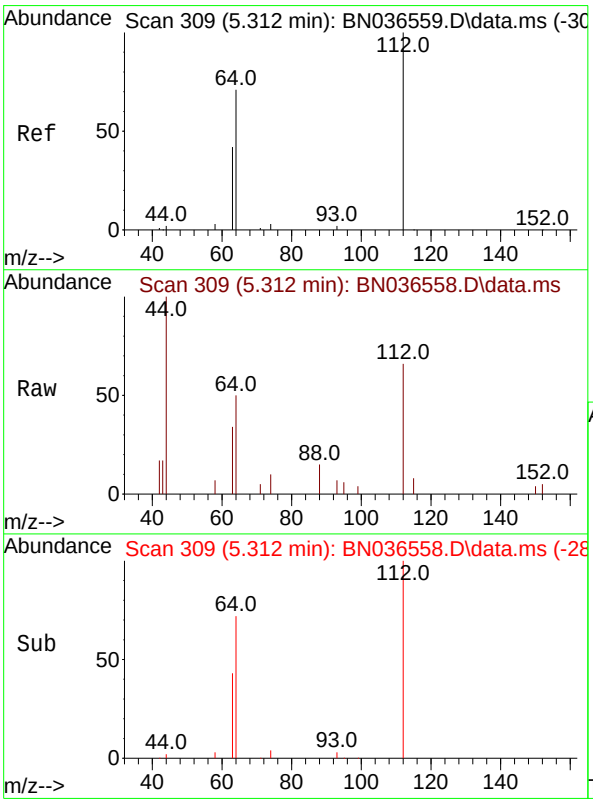
#3
n-Nitrosodimethylamine
Concen: 0.195 ng
RT: 3.557 min Scan# 6
Delta R.T. 0.007 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion: 42 Resp: 1094

Ion	Ratio	Lower	Upper
42	100		
74	83.2	60.6	90.8
44	8.5	6.3	9.5

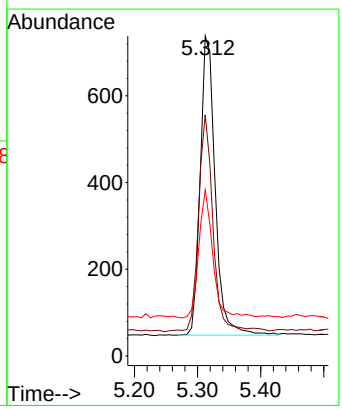


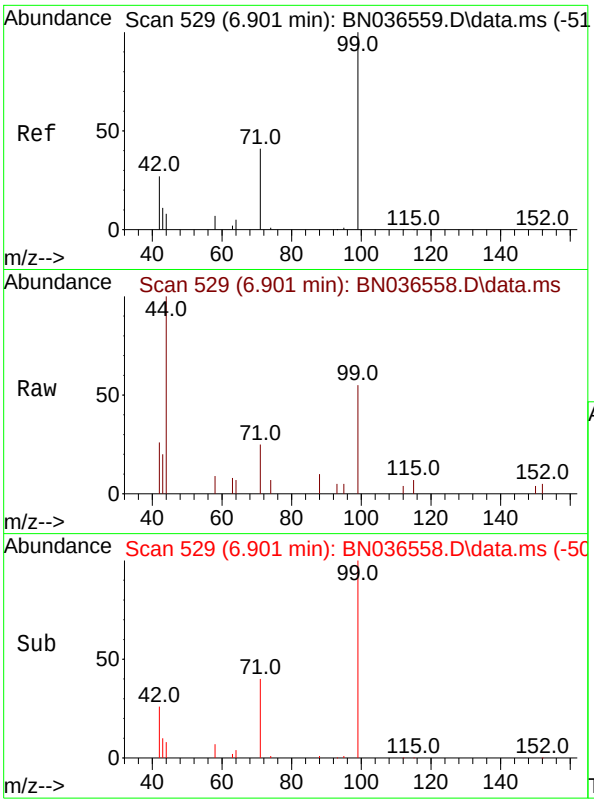


#4
2-Fluorophenol
Concen: 0.195 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:112 Resp: 1137

Ion	Ratio	Lower	Upper
112	100		
64	70.6	53.1	79.7
63	40.3	31.8	47.8



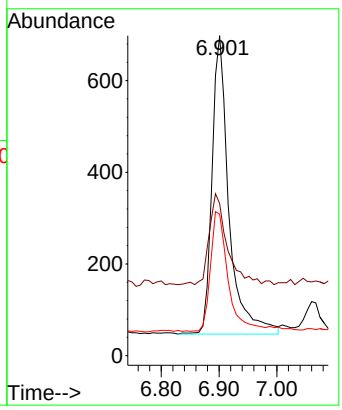


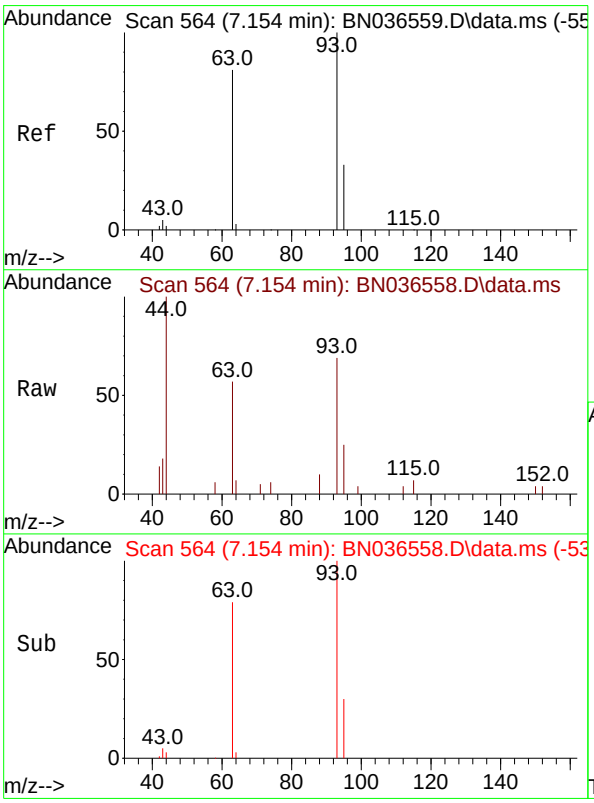
#5
Phenol-d6
Concen: 0.184 ng
RT: 6.901 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion: 99 Resp: 1323

Ion	Ratio	Lower	Upper
99	100		
42	32.7	26.5	39.7
71	41.3	34.1	51.1

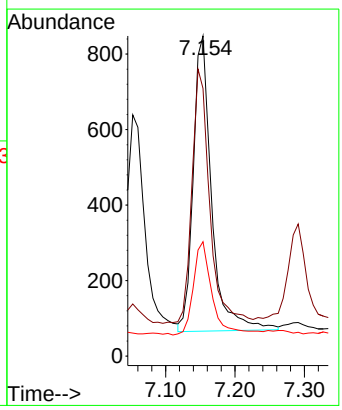


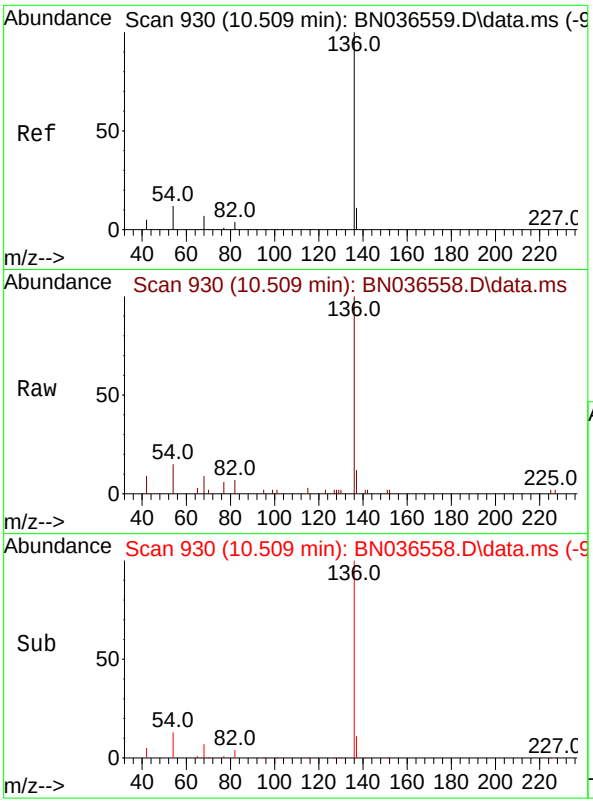


#6
bis(2-Chloroethyl)ether
Concen: 0.193 ng
RT: 7.154 min Scan# 564
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion: 93 Resp: 1440

Ion	Ratio	Lower	Upper
93	100		
63	82.9	67.7	101.5
95	31.9	25.6	38.4



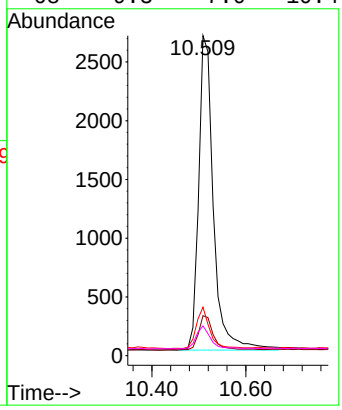


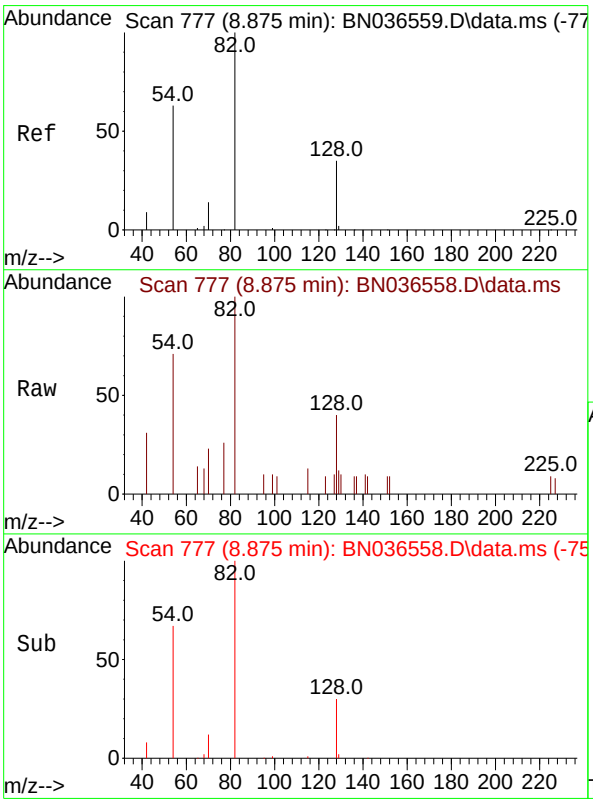
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:136 Resp: 5844

Ion	Ratio	Lower	Upper
136	100		
137	12.5	10.3	15.5
54	15.1	11.5	17.3
68	9.3	7.0	10.4

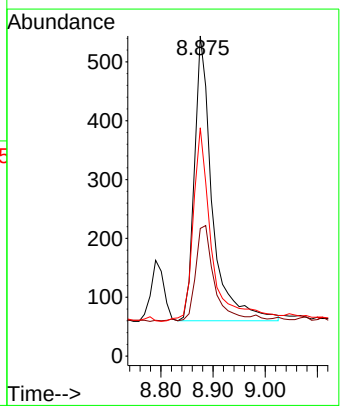


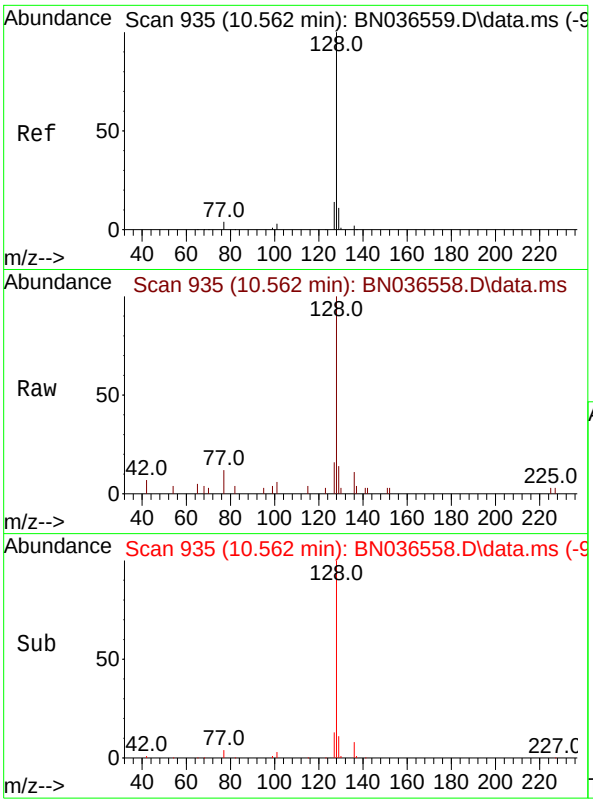


#8
Nitrobenzene-d5
Concen: 0.182 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion: 82 Resp: 1156

Ion	Ratio	Lower	Upper
82	100		
128	39.9	30.6	45.8
54	71.3	52.2	78.4



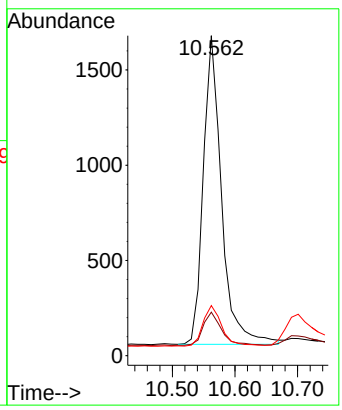


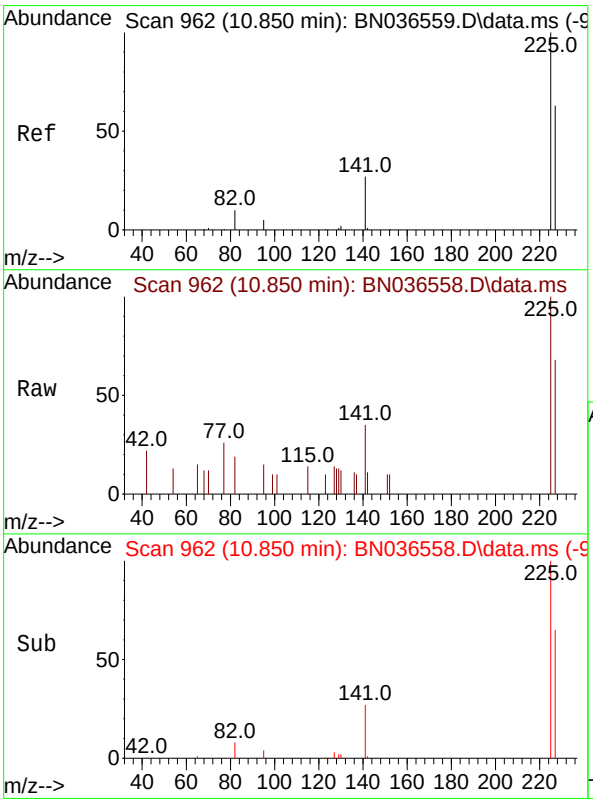
#9
Naphthalene
Concen: 0.191 ng
RT: 10.562 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:128 Resp: 3286

Ion	Ratio	Lower	Upper
128	100		
129	13.6	9.8	14.6
127	15.7	11.8	17.8

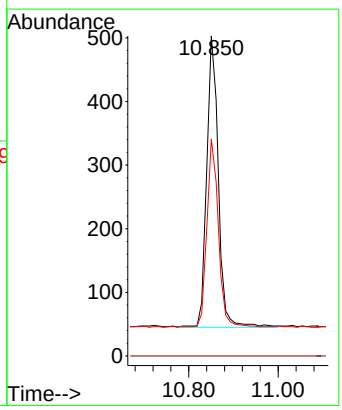


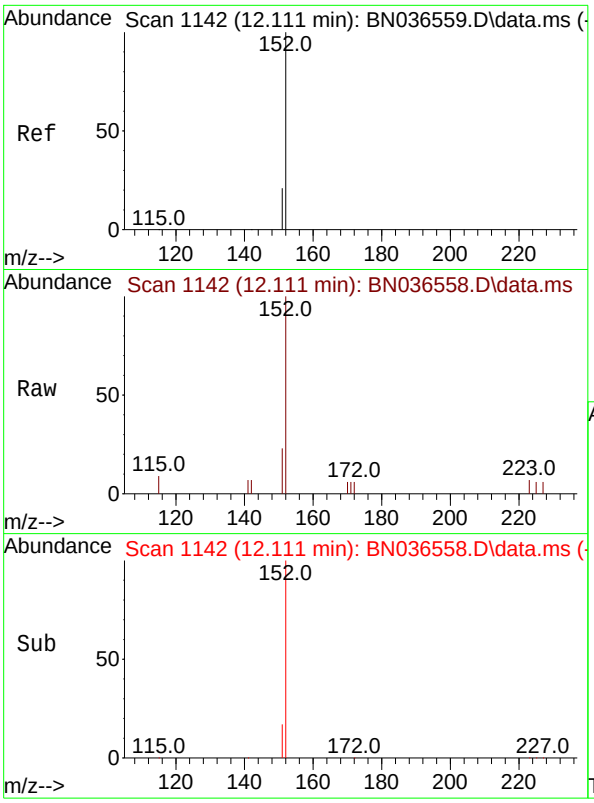


#10
Hexachlorobutadiene
Concen: 0.205 ng
RT: 10.850 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:225 Resp: 828

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	62.6	51.8	77.8



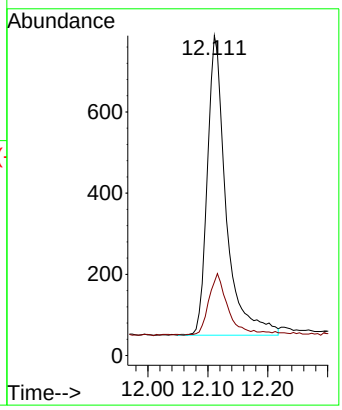


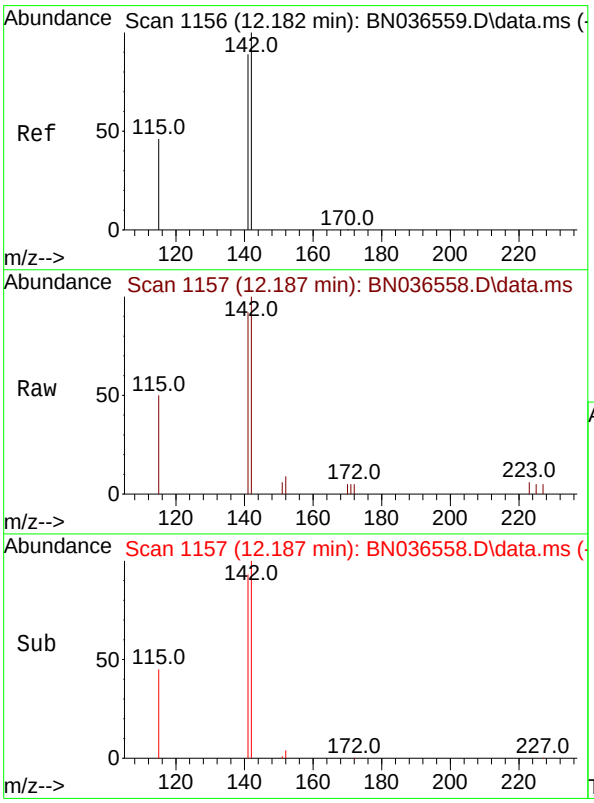
#11
2-Methylnaphthalene-d10
Concen: 0.184 ng
RT: 12.111 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:152 Resp: 1603

Ion	Ratio	Lower	Upper
152	100		
151	21.0	17.0	25.6

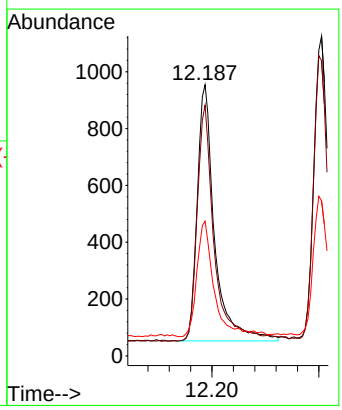


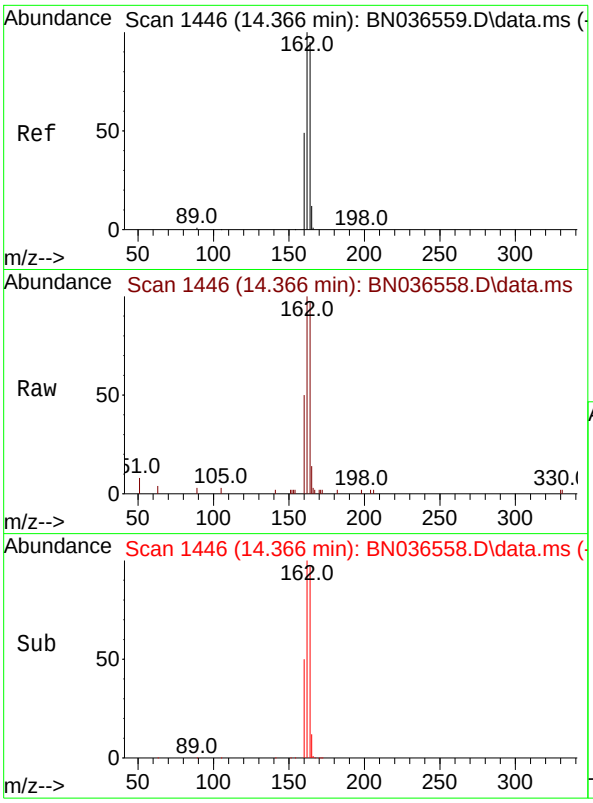


#12
2-Methylnaphthalene
Concen: 0.186 ng
RT: 12.187 min Scan# 1157
Delta R.T. 0.005 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:142 Resp: 2034

Ion	Ratio	Lower	Upper
142	100		
141	92.5	71.7	107.5
115	49.7	38.3	57.5



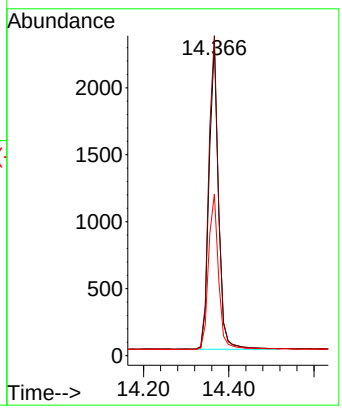


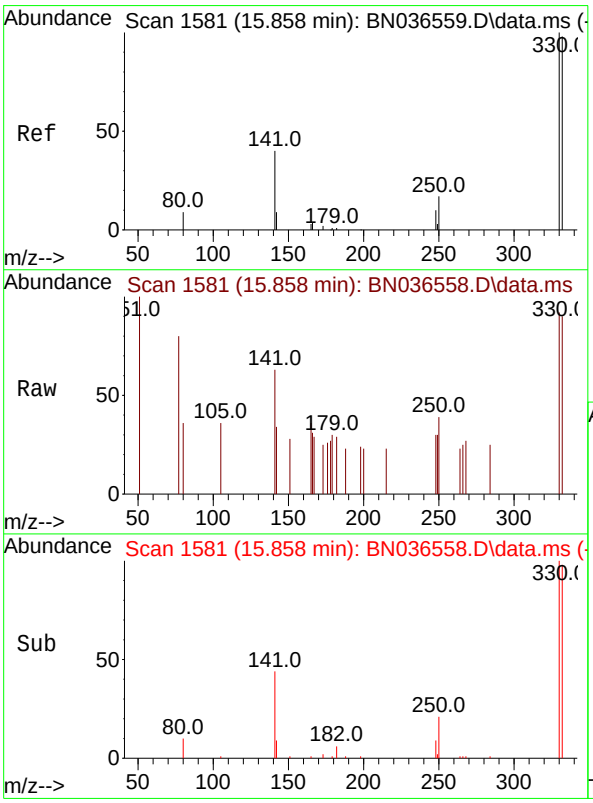
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:164 Resp: 3516

Ion	Ratio	Lower	Upper
164	100		
162	102.6	84.2	126.2
160	51.8	42.2	63.2

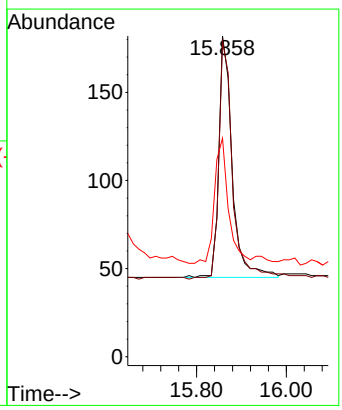


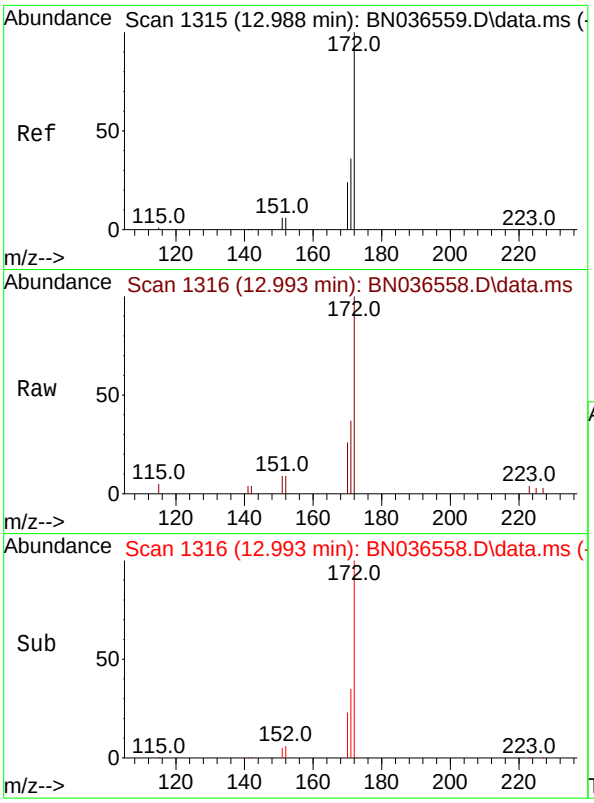


#14
2,4,6-Tribromophenol
Concen: 0.177 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:330 Resp: 282

Ion	Ratio	Lower	Upper
330	100		
332	103.5	75.2	112.8
141	53.9	43.4	65.2



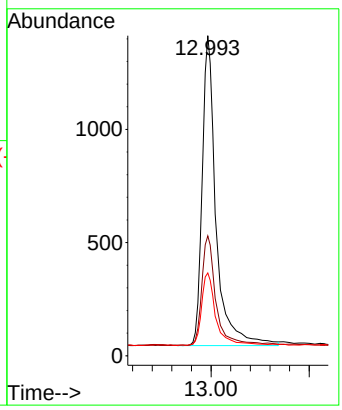


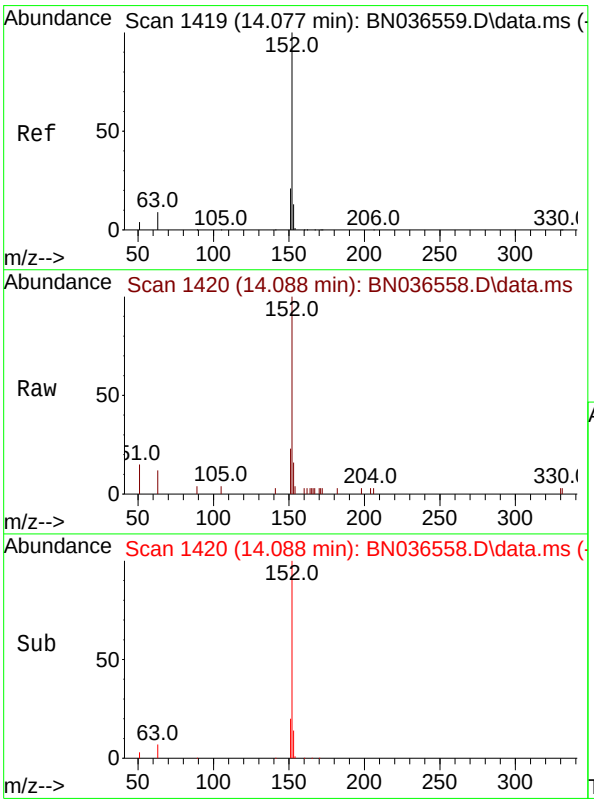
#15
2-Fluorobiphenyl
Concen: 0.170 ng
RT: 12.993 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:172 Resp: 3485

Ion	Ratio	Lower	Upper
172	100		
171	37.5	29.5	44.3
170	25.9	20.2	30.4

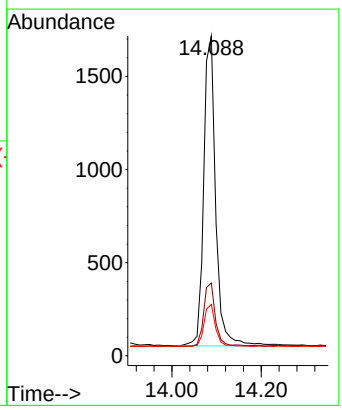


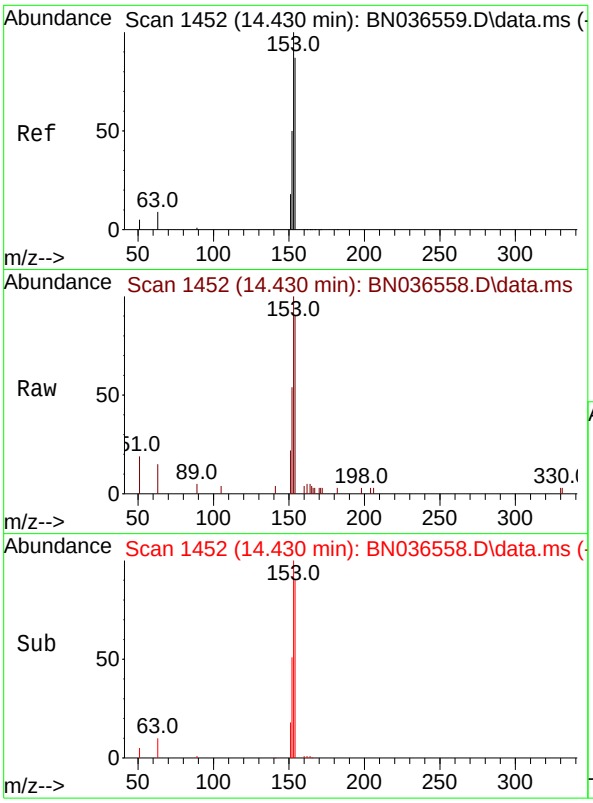


#16
Acenaphthylene
Concen: 0.186 ng
RT: 14.088 min Scan# 1420
Delta R.T. 0.011 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:152 Resp: 3087

Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.2	24.4
153	13.0	10.6	15.8



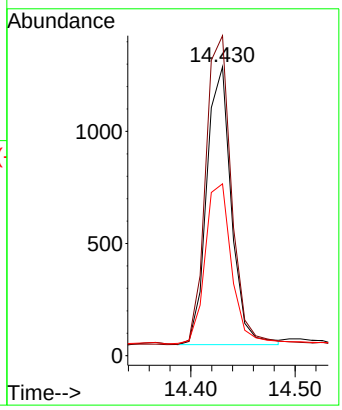


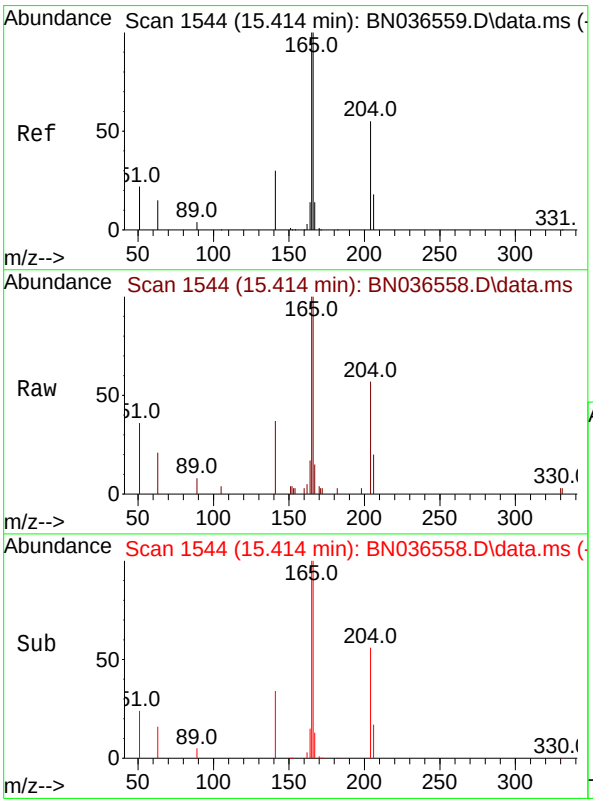
#17
Acenaphthene
Concen: 0.188 ng
RT: 14.430 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:154 Resp: 2038

Ion	Ratio	Lower	Upper
154	100		
153	117.8	94.1	141.1
152	63.1	49.8	74.6

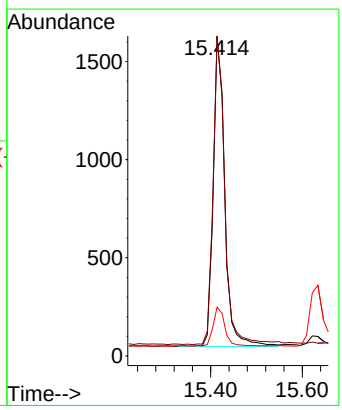


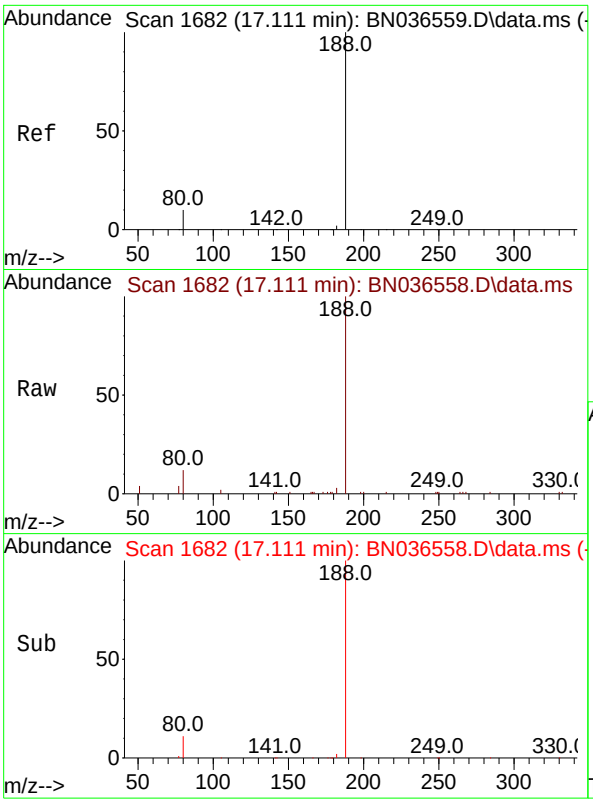


#18
Fluorene
Concen: 0.191 ng
RT: 15.414 min Scan# 1544
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:166 Resp: 2813

Ion	Ratio	Lower	Upper
166	100		
165	101.1	79.8	119.8
167	12.6	10.6	15.8



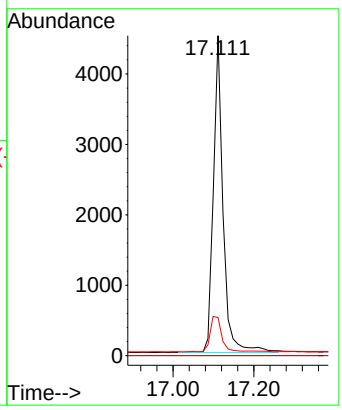


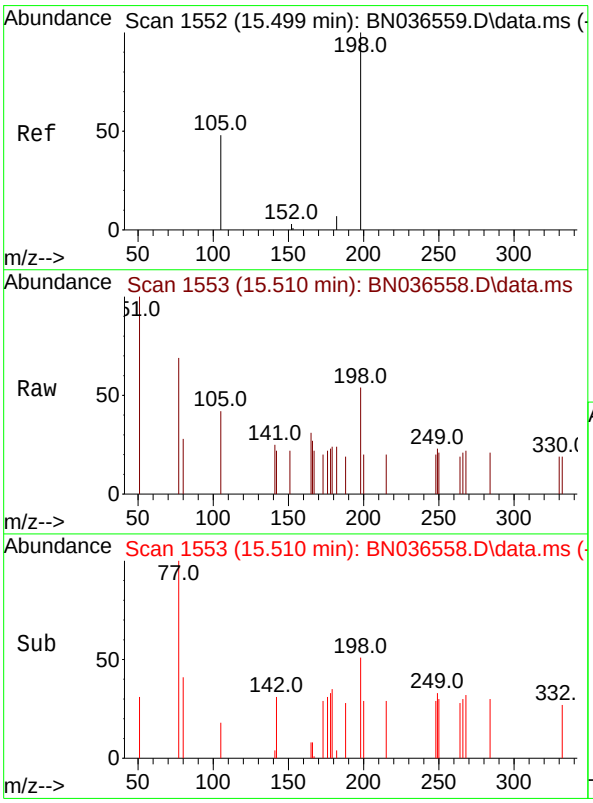
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:188 Resp: 7506

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.9	8.8	13.2

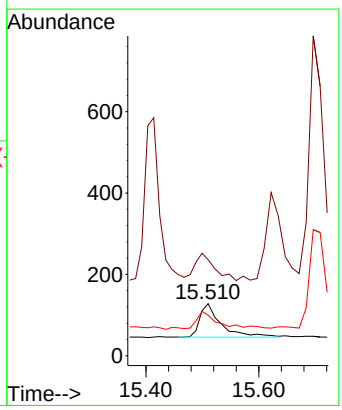


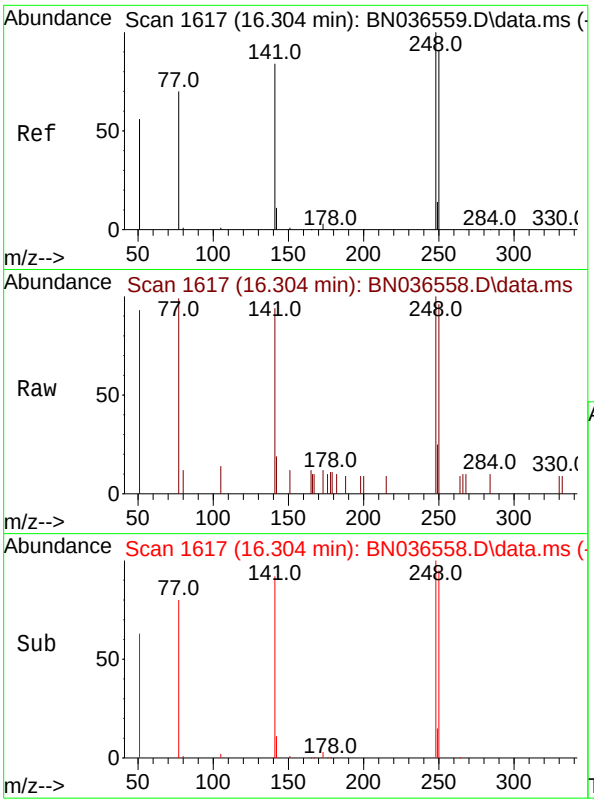


#20
4,6-Dinitro-2-methylphenol
Concen: 0.258 ng
RT: 15.510 min Scan# 1553
Delta R.T. 0.011 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:198 Resp: 214

Ion	Ratio	Lower	Upper
198	100		
51	184.4	107.9	161.9#
105	78.1	56.2	84.2



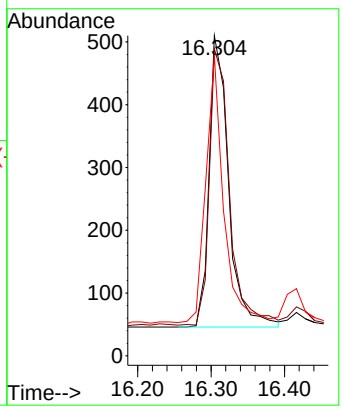


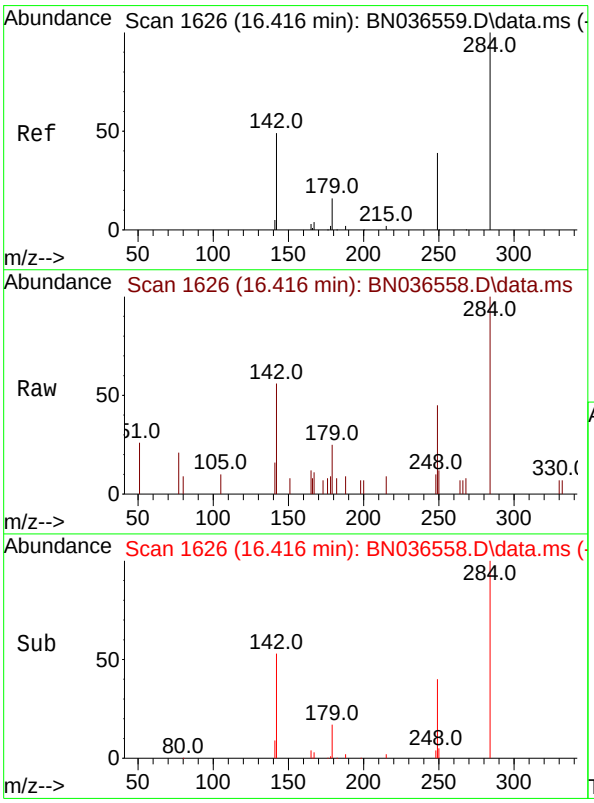
#21
4-Bromophenyl-phenylether
Concen: 0.181 ng
RT: 16.304 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:248 Resp: 853

Ion	Ratio	Lower	Upper
248	100		
250	95.9	73.0	109.6
141	93.7	68.6	103.0

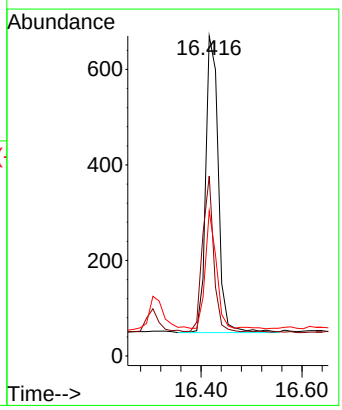


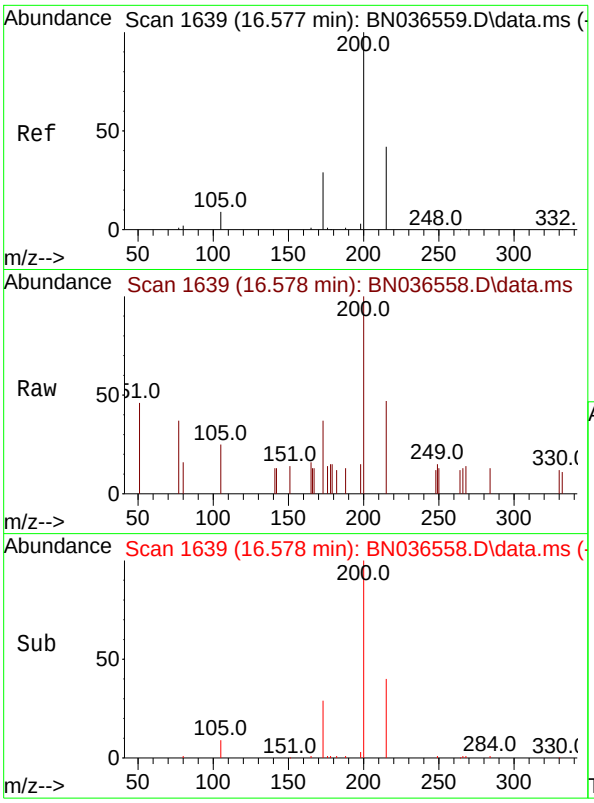


#22
Hexachlorobenzene
Concen: 0.190 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:284 Resp: 1079

Ion	Ratio	Lower	Upper
284	100		
142	47.0	37.0	55.4
249	34.8	28.1	42.1



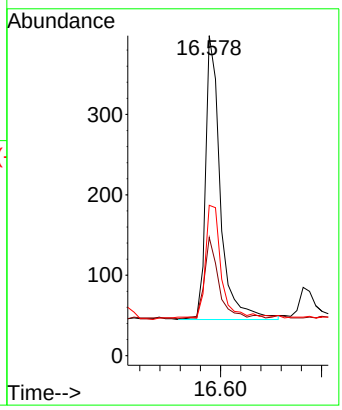


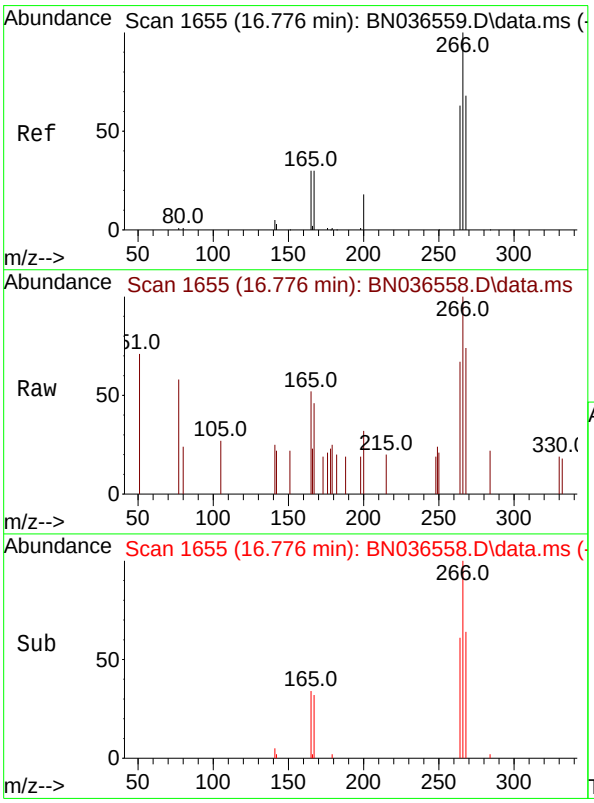
#23
Atrazine
Concen: 0.190 ng
RT: 16.578 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:200 Resp: 716

Ion	Ratio	Lower	Upper
200	100		
173	36.9	27.3	40.9
215	47.0	36.8	55.2

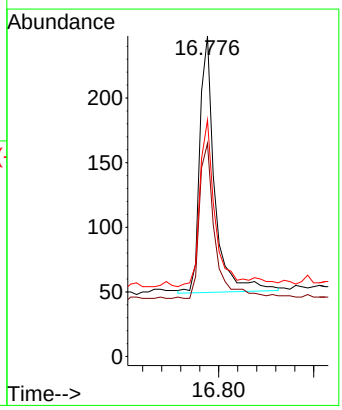


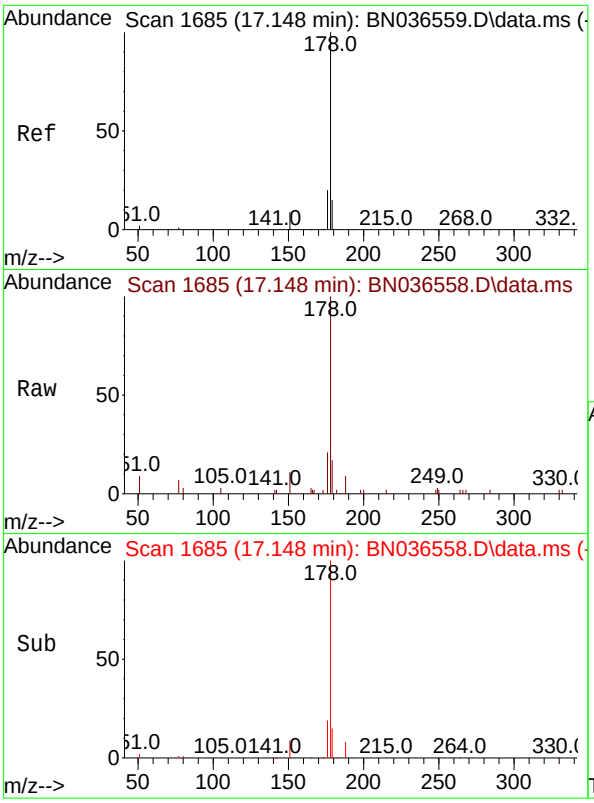


#24
Pentachlorophenol
Concen: 0.168 ng
RT: 16.776 min Scan# 1655
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:266 Resp: 435

Ion	Ratio	Lower	Upper
266	100		
264	63.4	49.6	74.4
268	65.7	50.9	76.3



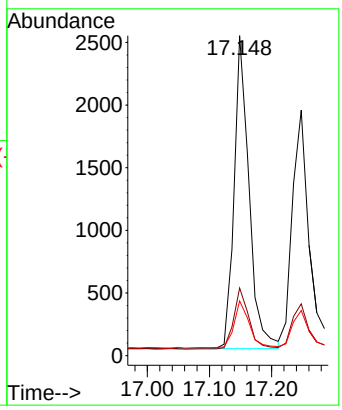


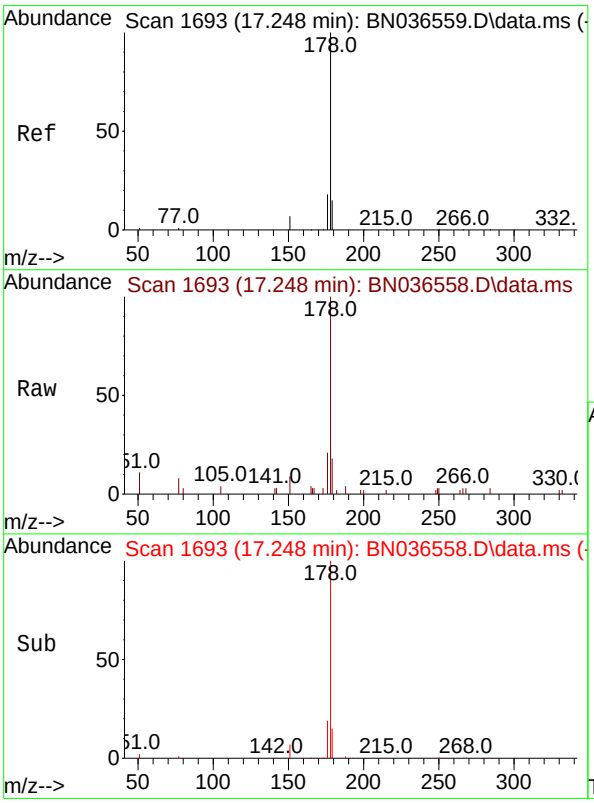
#25
Phenanthrene
Concen: 0.185 ng
RT: 17.148 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:178 Resp: 4171

Ion	Ratio	Lower	Upper
178	100		
176	20.0	15.9	23.9
179	15.5	12.2	18.4

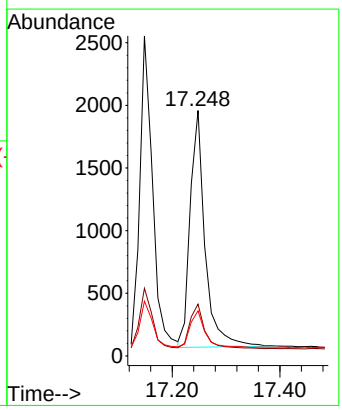


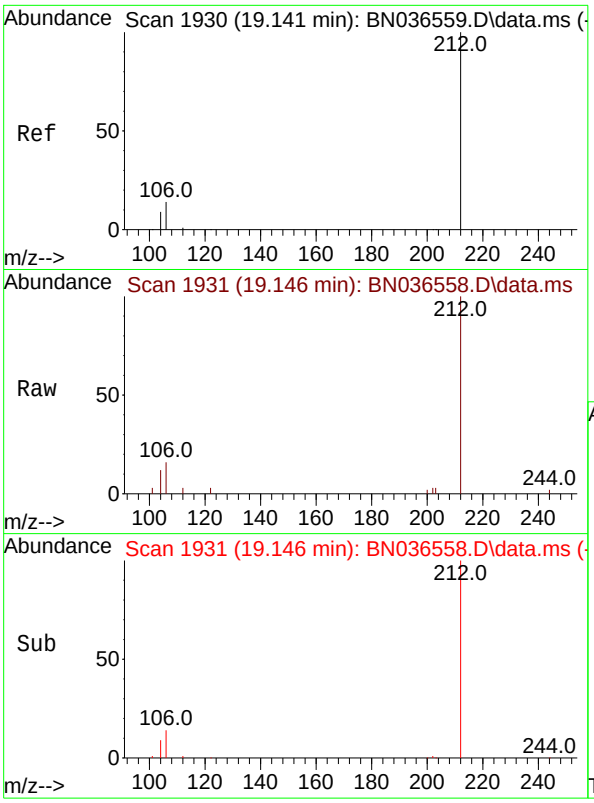


#26
Anthracene
Concen: 0.179 ng
RT: 17.248 min Scan# 1693
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:178 Resp: 3645

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.4	23.2
179	15.1	12.6	18.8



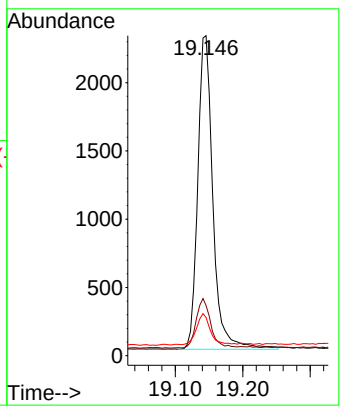


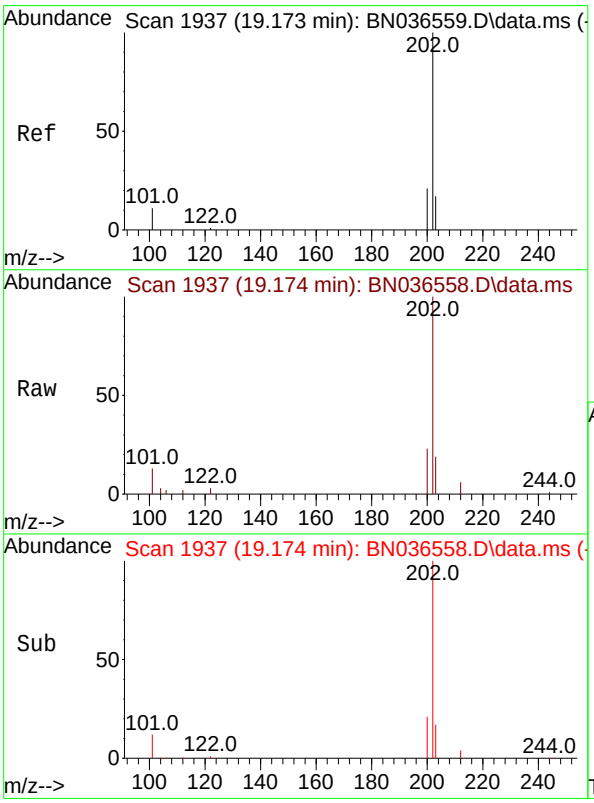
#27
Fluoranthene-d10
Concen: 0.186 ng
RT: 19.146 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:212 Resp: 3583

Ion	Ratio	Lower	Upper
212	100		
106	15.0	11.8	17.6
104	9.3	7.3	10.9

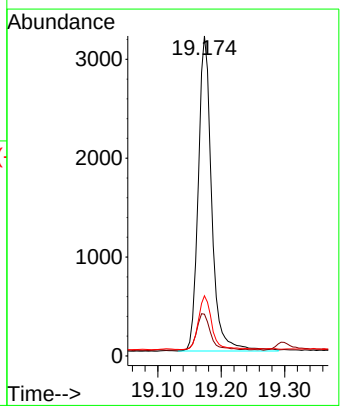


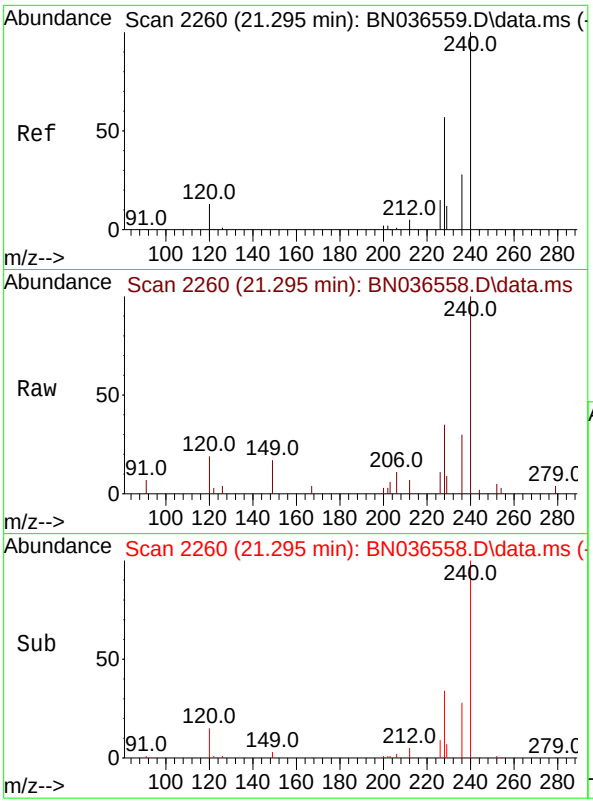


#28
Fluoranthene
Concen: 0.184 ng
RT: 19.174 min Scan# 1937
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:202 Resp: 4666

Ion	Ratio	Lower	Upper
202	100		
101	12.1	9.4	14.0
203	17.1	13.5	20.3



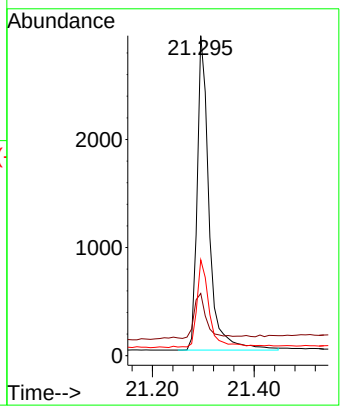


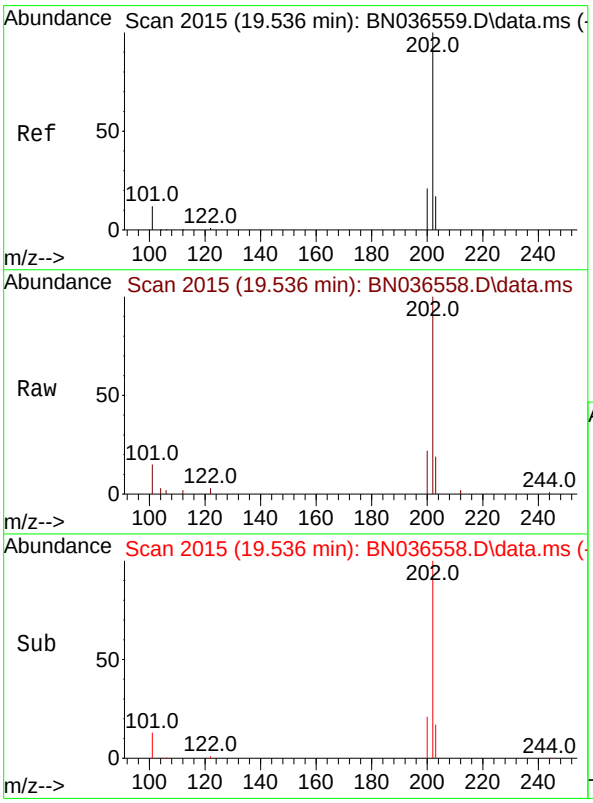
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:240 Resp: 4730

Ion	Ratio	Lower	Upper
240	100		
120	19.5	14.6	22.0
236	29.9	24.1	36.1

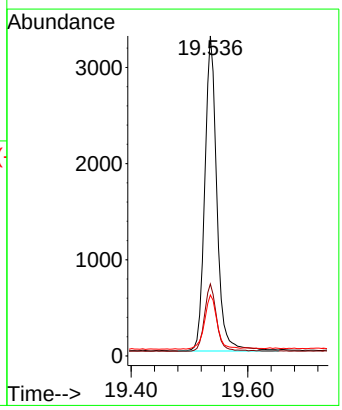


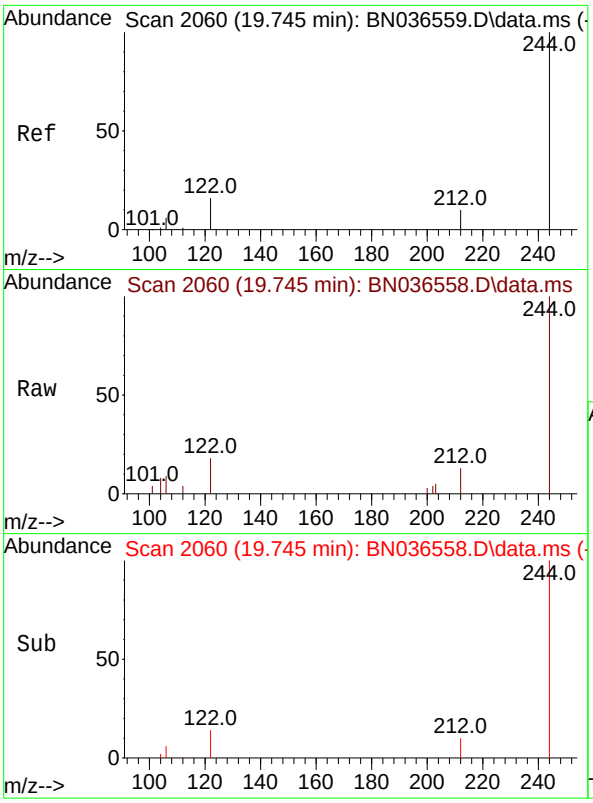


#30
Pyrene
Concen: 0.205 ng
RT: 19.536 min Scan# 2015
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:202 Resp: 4742

Ion	Ratio	Lower	Upper
202	100		
200	21.1	17.1	25.7
203	17.7	14.1	21.1



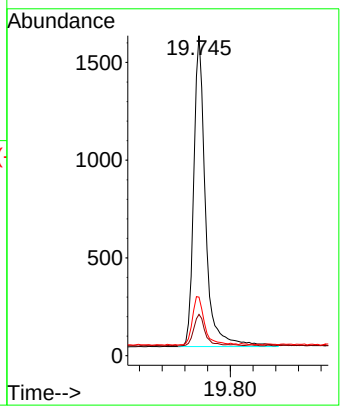


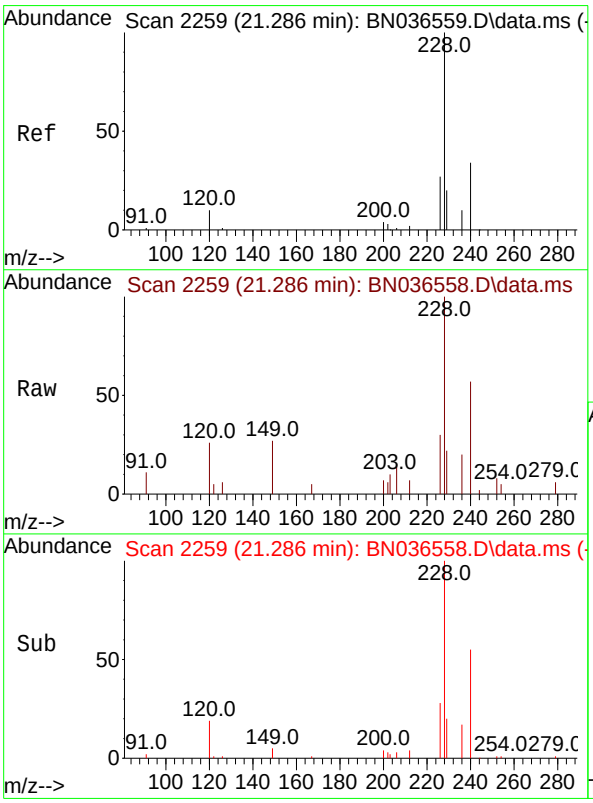
#31
Terphenyl-d14
Concen: 0.201 ng
RT: 19.745 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:244 Resp: 2283

Ion	Ratio	Lower	Upper
244	100		
212	12.9	9.6	14.4
122	18.3	13.9	20.9

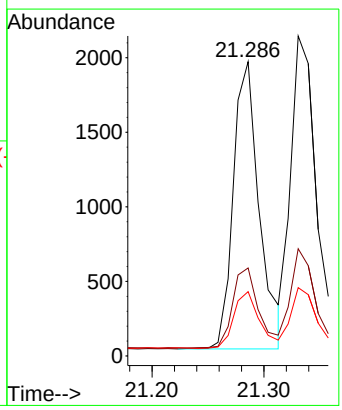


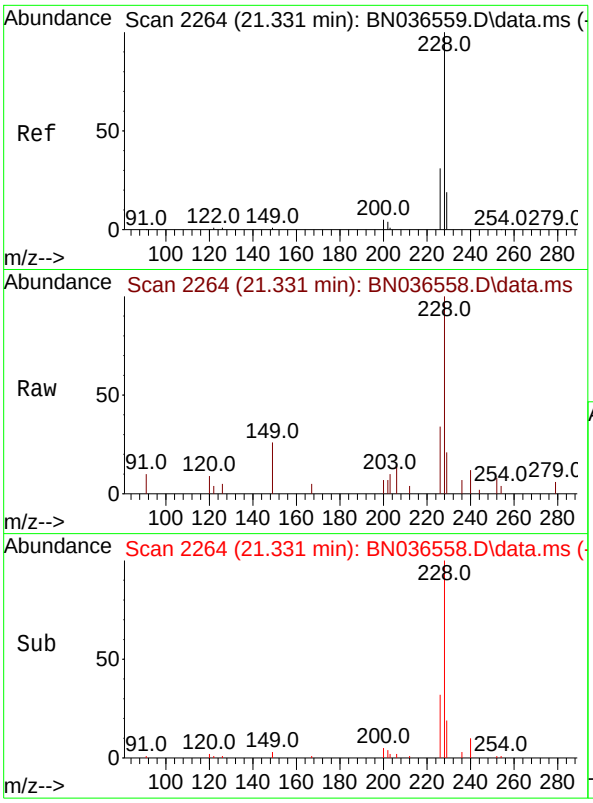


#32
Benzo(a)anthracene
Concen: 0.189 ng
RT: 21.286 min Scan# 2259
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:228 Resp: 3111

Ion	Ratio	Lower	Upper
228	100		
226	29.9	22.5	33.7
229	21.9	16.6	25.0



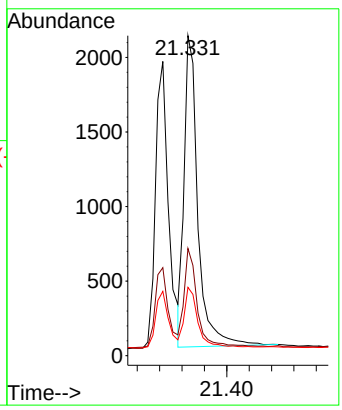


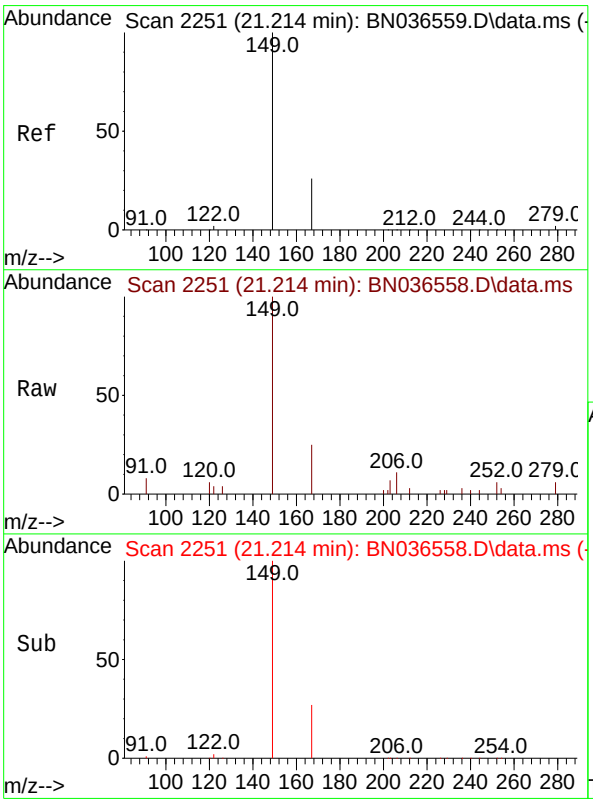
#33
Chrysene
Concen: 0.199 ng
RT: 21.331 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:228 Resp: 3568

Ion	Ratio	Lower	Upper
228	100		
226	33.5	25.3	37.9
229	21.4	15.8	23.8

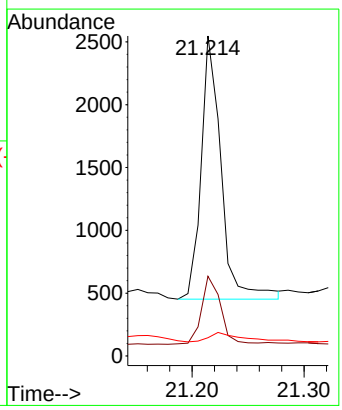


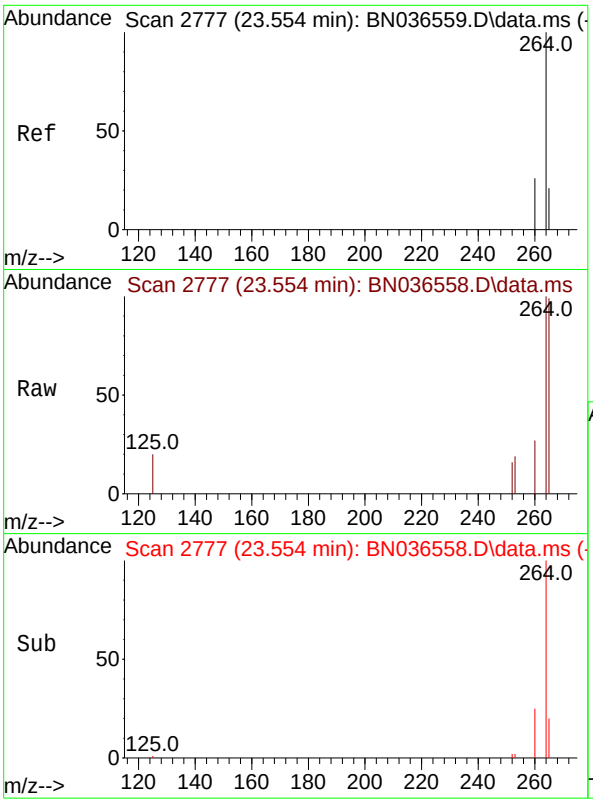


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.222 ng
RT: 21.214 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:149 Resp: 2601

Ion	Ratio	Lower	Upper
149	100		
167	24.7	20.7	31.1
279	5.7	3.6	5.4#



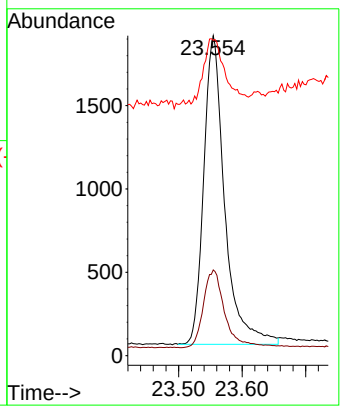


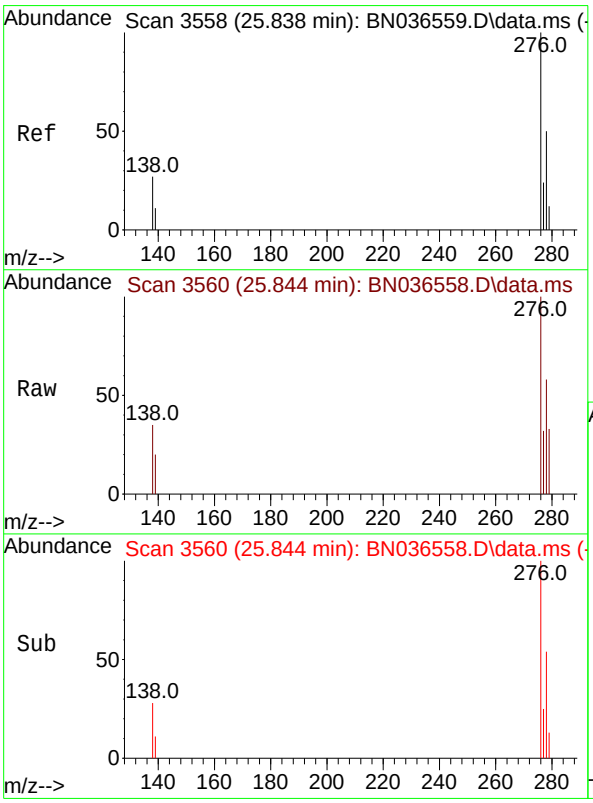
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.554 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:264 Resp: 4241

Ion	Ratio	Lower	Upper
264	100		
260	26.8	22.6	33.8
265	98.5	88.1	132.1

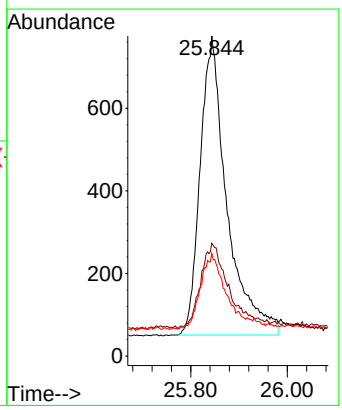


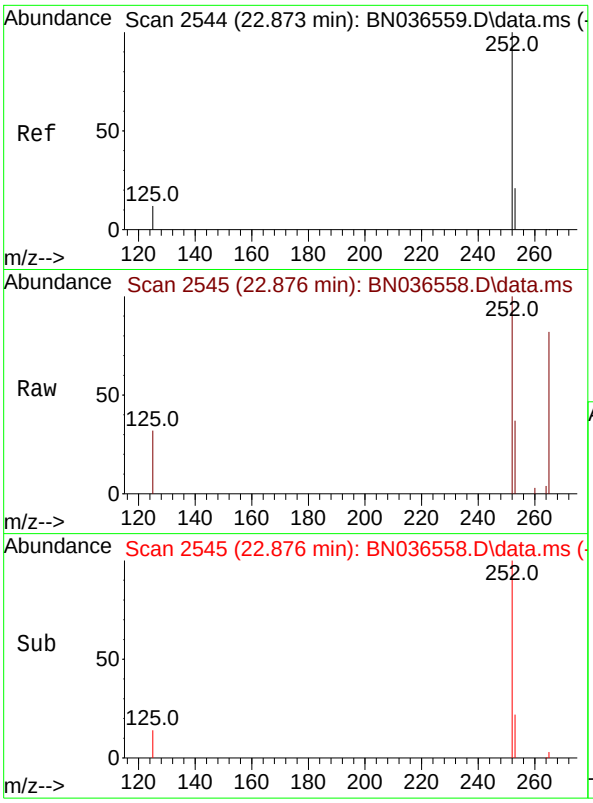


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.182 ng
RT: 25.844 min Scan# 3560
Delta R.T. 0.006 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:276 Resp: 2790

Ion	Ratio	Lower	Upper
276	100		
138	29.1	23.4	35.2
277	23.4	20.0	30.0



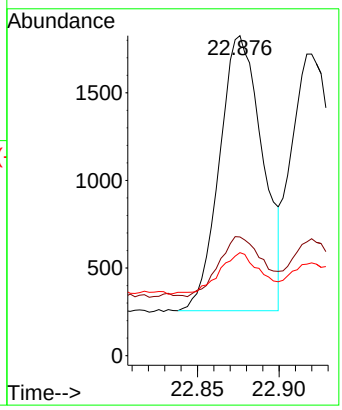


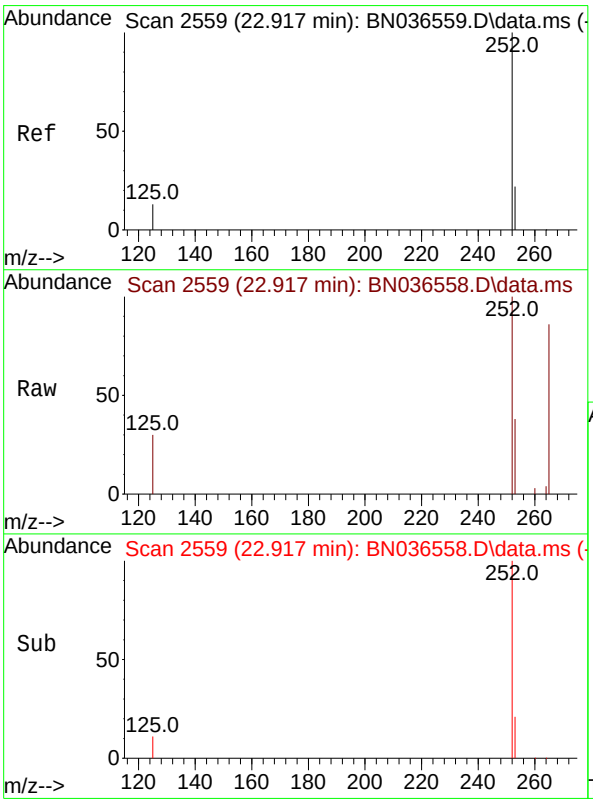
#37
Benzo(b)fluoranthene
Concen: 0.187 ng
RT: 22.876 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:252 Resp: 2883

Ion	Ratio	Lower	Upper
252	100		
253	37.1	23.9	35.9#
125	32.2	17.4	26.2#

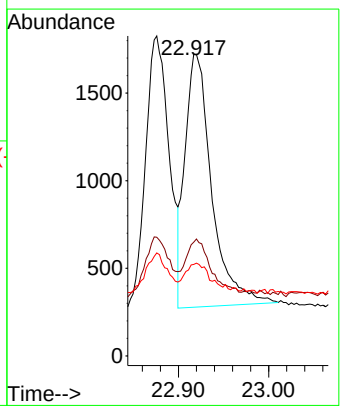


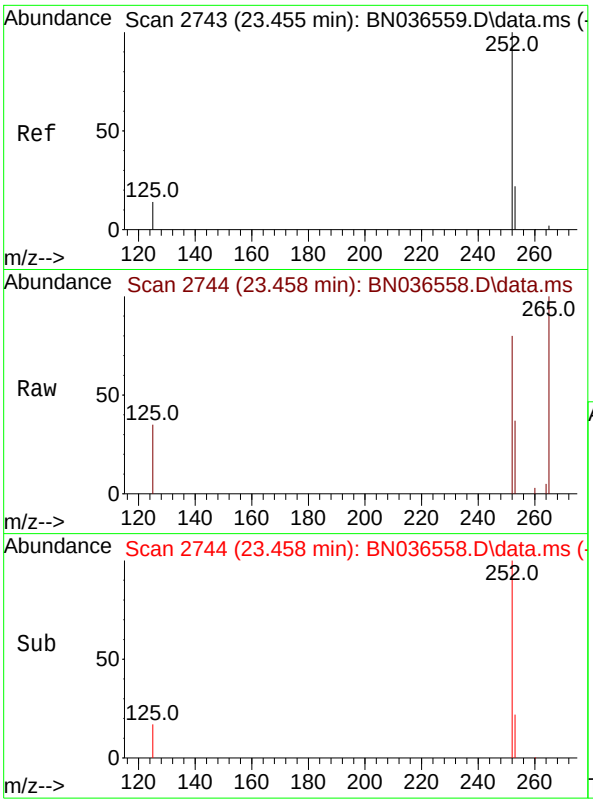


#38
Benzo(k)fluoranthene
Concen: 0.183 ng
RT: 22.917 min Scan# 2559
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:252 Resp: 2962

Ion	Ratio	Lower	Upper
252	100		
253	37.7	24.6	36.8#
125	30.3	17.8	26.8#



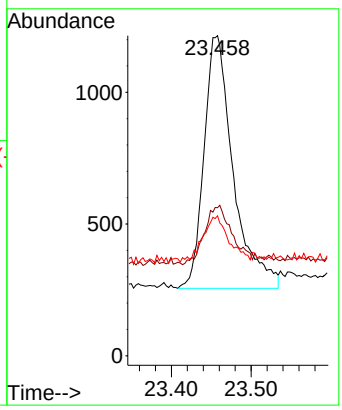


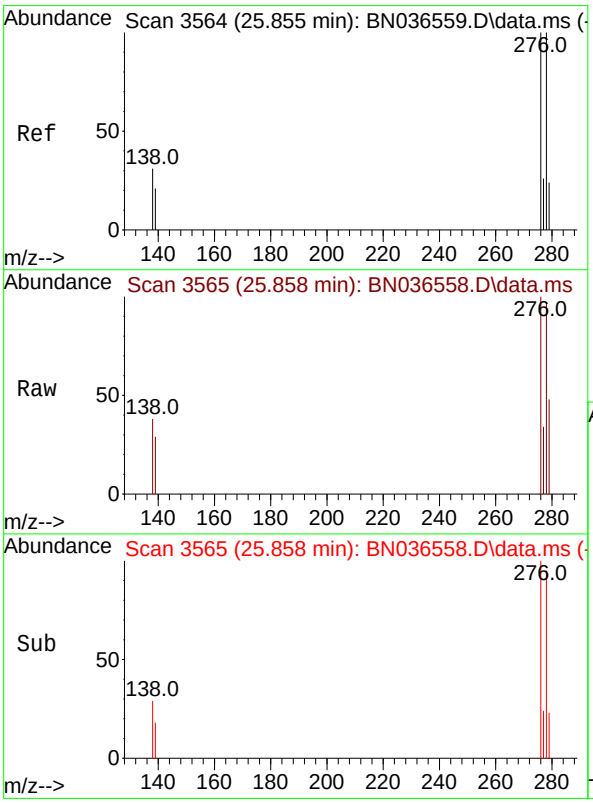
#39
Benzo(a)pyrene
Concen: 0.188 ng
RT: 23.458 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:252 Resp: 2443

Ion	Ratio	Lower	Upper
252	100		
253	46.3	27.8	41.8#
125	43.7	22.7	34.1#

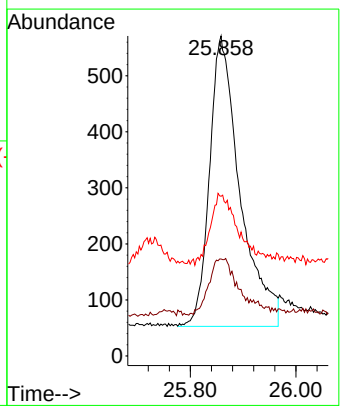


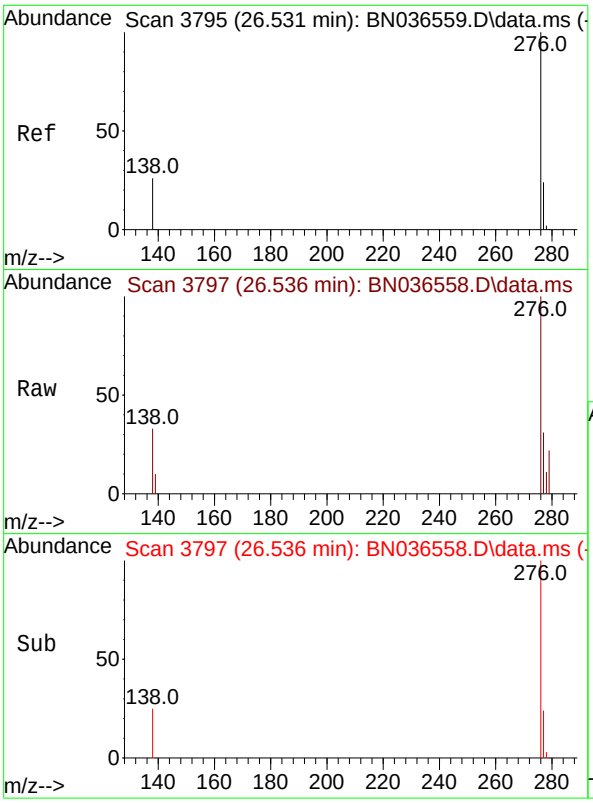


#40
Dibenzo(a,h)anthracene
Concen: 0.175 ng
RT: 25.858 min Scan# 3565
Delta R.T. 0.003 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:278 Resp: 2080

Ion	Ratio	Lower	Upper
278	100		
139	30.3	20.8	31.2
279	49.9	28.8	43.2#



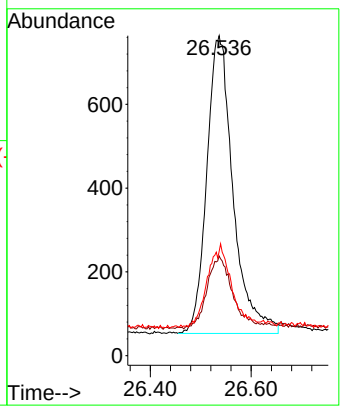


#41
Benzo(g,h,i)perylene
Concen: 0.189 ng
RT: 26.536 min Scan# 3
Delta R.T. 0.006 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:276 Resp: 2573

Ion	Ratio	Lower	Upper
276	100		
277	31.2	22.2	33.4
138	32.6	24.1	36.1



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036736.D
Acq On : 27 Mar 2025 14:02
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Mar 27 19:15:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

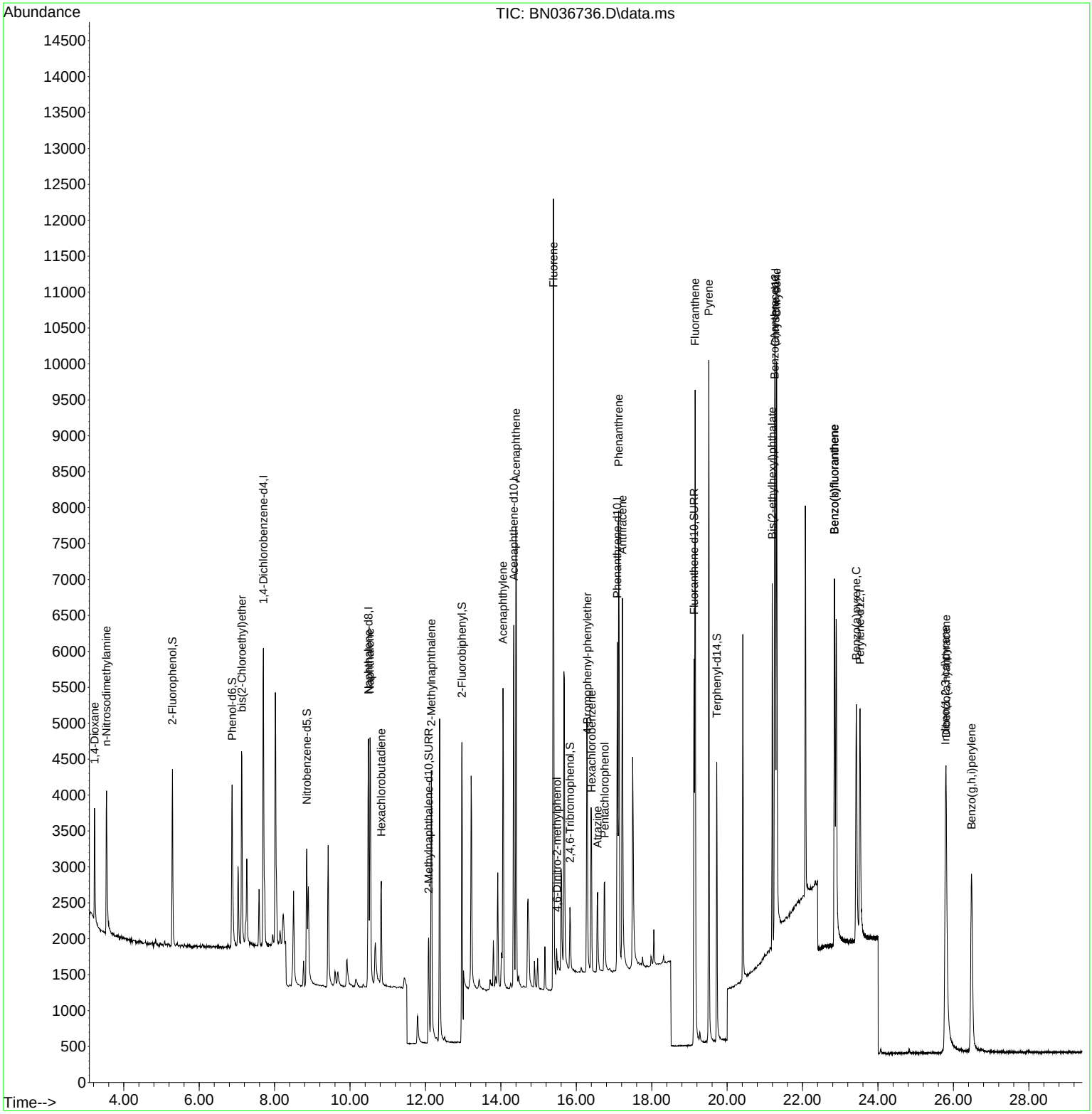
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.703	152	1995	0.400	ng		-0.02
7) Naphthalene-d8	10.487	136	4873	0.400	ng		-0.02
13) Acenaphthene-d10	14.345	164	2980	0.400	ng		-0.02
19) Phenanthrene-d10	17.086	188	6276	0.400	ng		-0.02
29) Chrysene-d12	21.277	240	5211	0.400	ng		-0.02
35) Perylene-d12	23.525	264	4739	0.400	ng		#-0.03
System Monitoring Compounds							
4) 2-Fluorophenol	5.290	112	1732	0.373	ng		-0.02
5) Phenol-d6	6.872	99	2011	0.350	ng		-0.03
8) Nitrobenzene-d5	8.854	82	1760	0.332	ng		-0.02
11) 2-Methylnaphthalene-d10	12.085	152	2584	0.356	ng		-0.03
14) 2,4,6-Tribromophenol	15.833	330	518	0.383	ng		-0.02
15) 2-Fluorobiphenyl	12.968	172	5972	0.344	ng		-0.02
27) Fluoranthene-d10	19.122	212	6412	0.399	ng		-0.02
31) Terphenyl-d14	19.726	244	4220	0.338	ng		-0.02
Target Compounds							Qvalue
2) 1,4-Dioxane	3.225	88	979	0.442	ng		93
3) n-Nitrosodimethylamine	3.543	42	1688	0.377	ng		98
6) bis(2-Chloroethyl)ether	7.132	93	2087	0.352	ng		99
9) Naphthalene	10.530	128	5118	0.357	ng		99
10) Hexachlorobutadiene	10.829	225	1232	0.365	ng	#	96
12) 2-Methylnaphthalene	12.156	142	3238	0.355	ng		99
16) Acenaphthylene	14.056	152	4782	0.340	ng		100
17) Acenaphthene	14.398	154	3313	0.360	ng		100
18) Fluorene	15.392	166	4544	0.365	ng		99
20) 4,6-Dinitro-2-methylph...	15.489	198	478	0.444	ng	#	75
21) 4-Bromophenyl-phenylether	16.292	248	1431	0.364	ng	#	76
22) Hexachlorobenzene	16.404	284	1682	0.354	ng		96
23) Atrazine	16.565	200	1221	0.387	ng		95
24) Pentachlorophenol	16.751	266	801	0.370	ng		98
25) Phenanthrene	17.124	178	7195	0.382	ng		100
26) Anthracene	17.223	178	6283	0.370	ng		100
28) Fluoranthene	19.150	202	8617	0.407	ng		99
30) Pyrene	19.513	202	8868	0.348	ng		100
32) Benzo(a)anthracene	21.259	228	6412	0.354	ng		98
33) Chrysene	21.313	228	7670	0.387	ng		99
34) Bis(2-ethylhexyl)phtha...	21.196	149	4505	0.349	ng	#	99
36) Indeno(1,2,3-cd)pyrene	25.791	276	6199	0.362	ng		98
37) Benzo(b)fluoranthene	22.847	252	6514	0.378	ng		95
38) Benzo(k)fluoranthene	22.847	252	6514	0.360	ng		94
39) Benzo(a)pyrene	23.426	252	5338	0.368	ng		94
40) Dibenzo(a,h)anthracene	25.808	278	4803	0.361	ng		95
41) Benzo(g,h,i)perylene	26.481	276	5667	0.372	ng		98

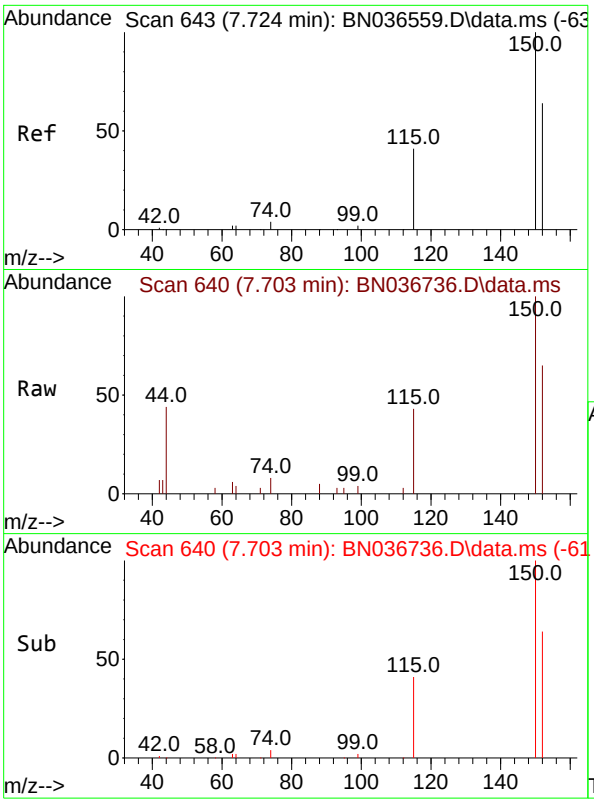
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036736.D
Acq On : 27 Mar 2025 14:02
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Mar 27 19:15:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



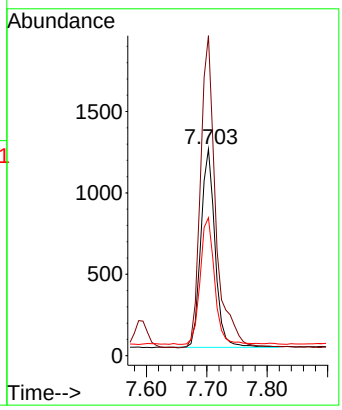


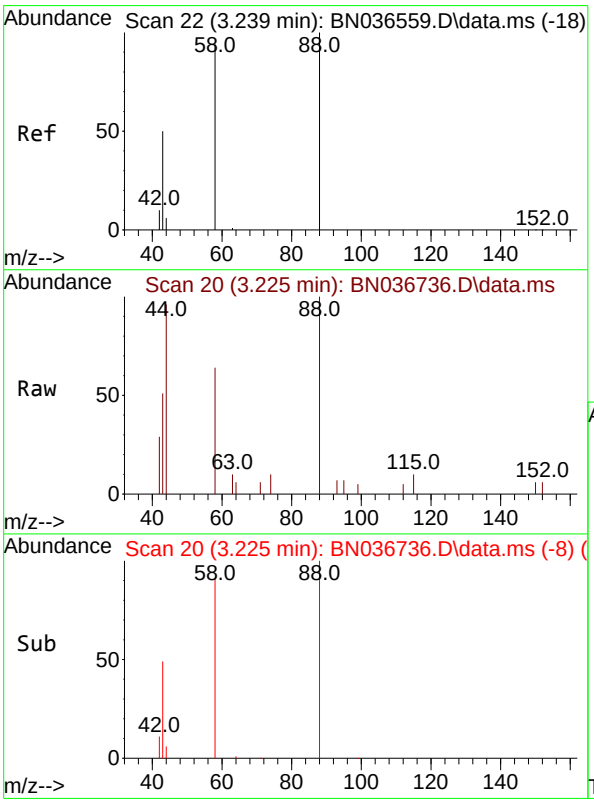
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.703 min Scan# 64
Delta R.T. -0.021 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 1995

Ion	Ratio	Lower	Upper
152	100		
150	154.9	123.7	185.5
115	66.7	54.3	81.5

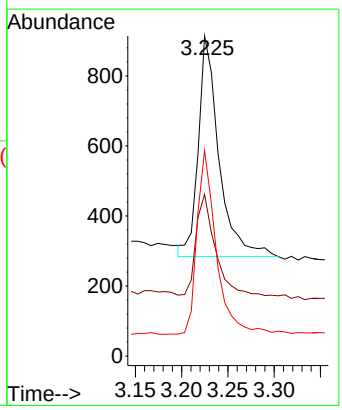


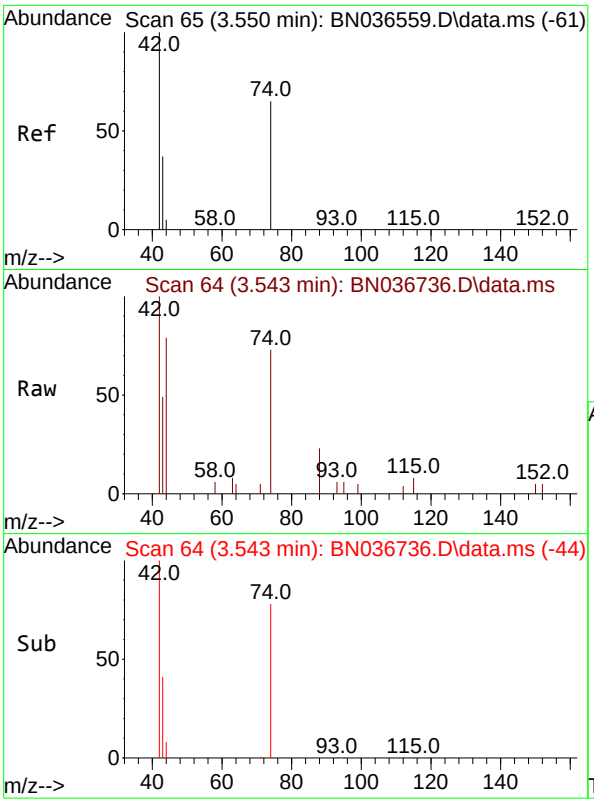


#2
1,4-Dioxane
Concen: 0.442 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion: 88 Resp: 979

Ion	Ratio	Lower	Upper
88	100		
43	43.0	37.8	56.8
58	77.9	67.4	101.2



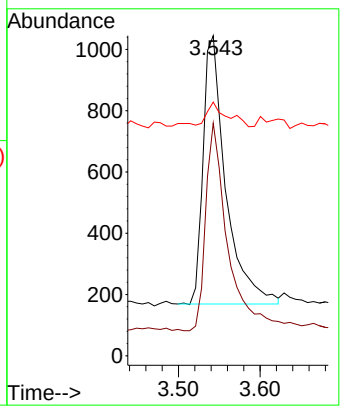


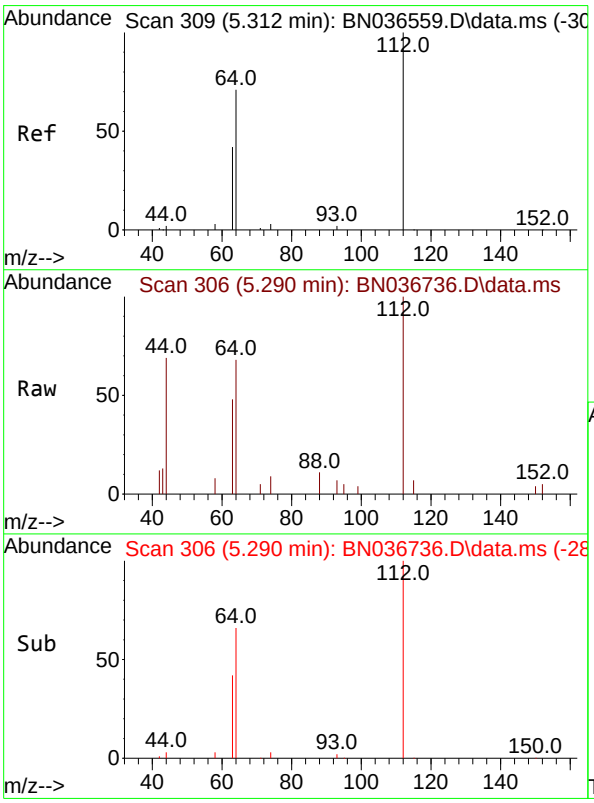
#3
n-Nitrosodimethylamine
Concen: 0.377 ng
RT: 3.543 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 42 Resp: 1688

Ion	Ratio	Lower	Upper
42	100		
74	77.4	60.6	90.8
44	7.9	6.3	9.5

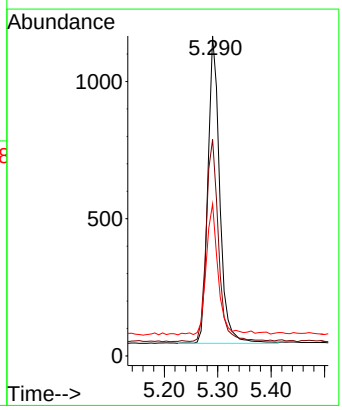


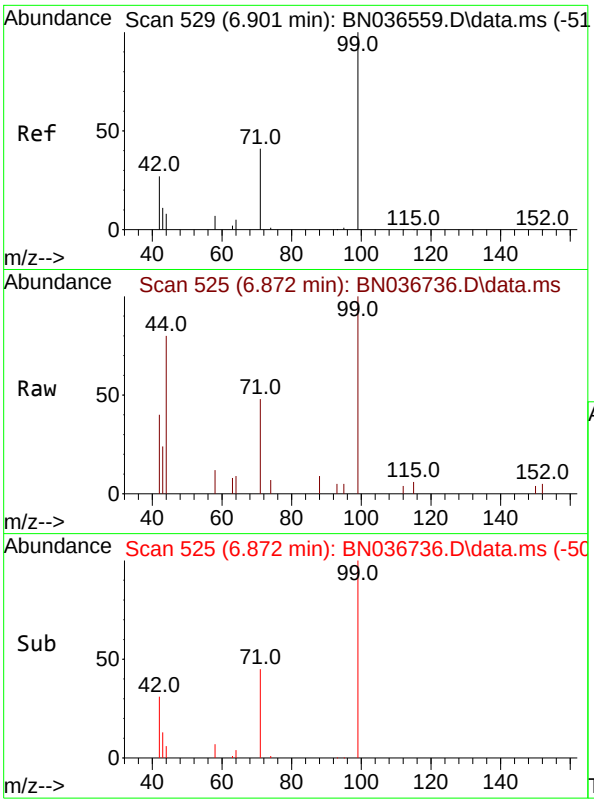


#4
2-Fluorophenol
Concen: 0.373 ng
RT: 5.290 min Scan# 306
Delta R.T. -0.022 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:112 Resp: 1732

Ion	Ratio	Lower	Upper
112	100		
64	67.9	53.1	79.7
63	42.6	31.8	47.8



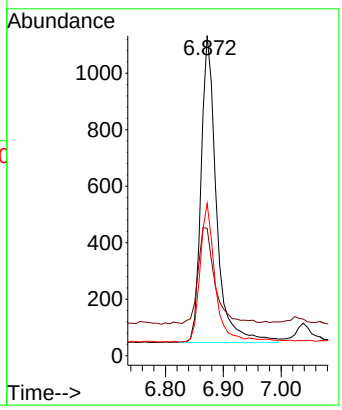


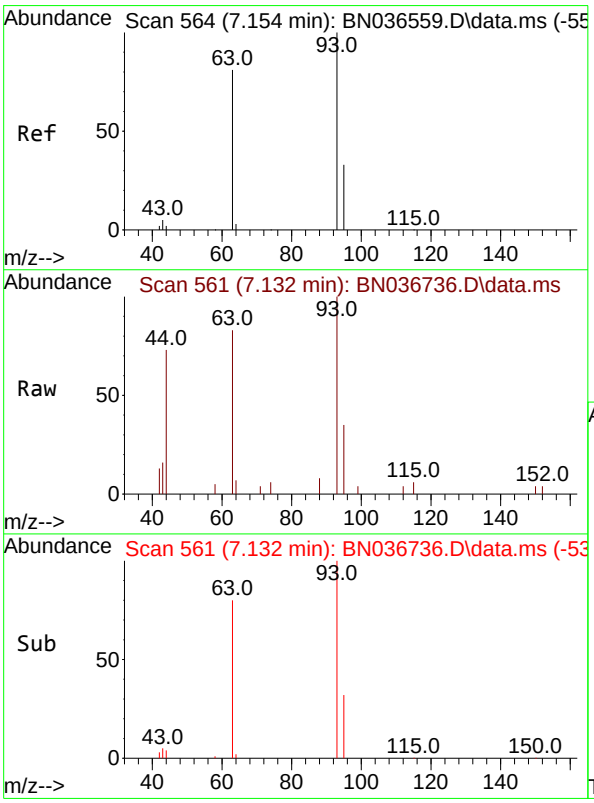
#5
Phenol-d6
Concen: 0.350 ng
RT: 6.872 min Scan# 5
Delta R.T. -0.029 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 99 Resp: 2011

Ion	Ratio	Lower	Upper
99	100		
42	35.9	26.5	39.7
71	45.0	34.1	51.1

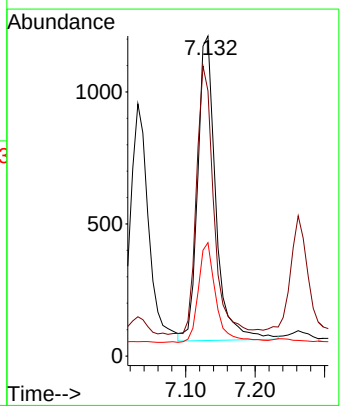


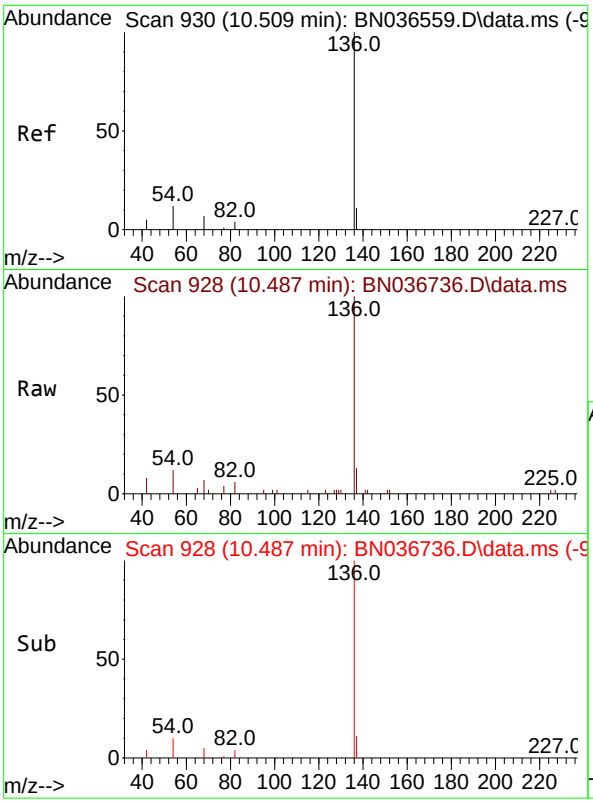


#6
bis(2-Chloroethyl)ether
Concen: 0.352 ng
RT: 7.132 min Scan# 561
Delta R.T. -0.022 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion: 93 Resp: 2087

Ion	Ratio	Lower	Upper
93	100		
63	83.9	67.7	101.5
95	32.0	25.6	38.4



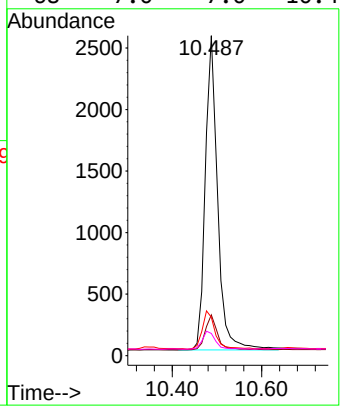


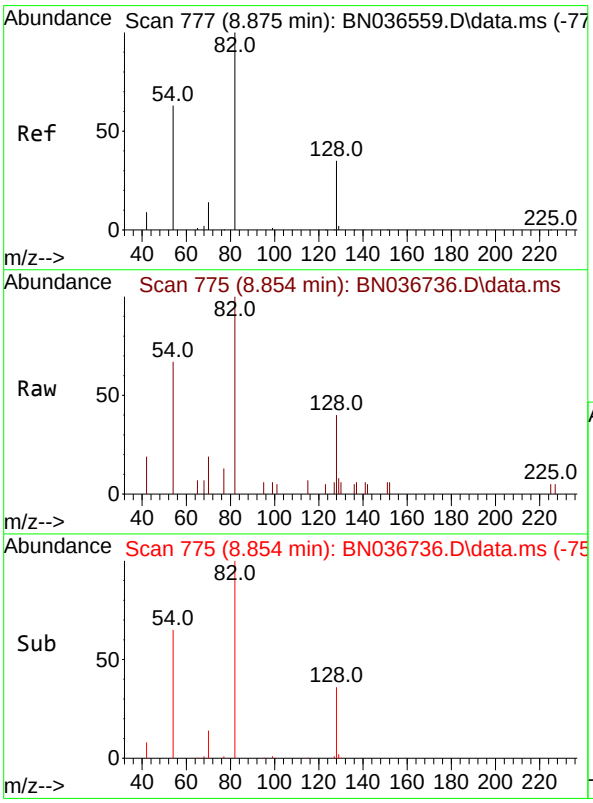
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.487 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:136 Resp: 4873

Ion	Ratio	Lower	Upper
136	100		
137	12.8	10.3	15.5
54	12.0	11.5	17.3
68	7.0	7.0	10.4

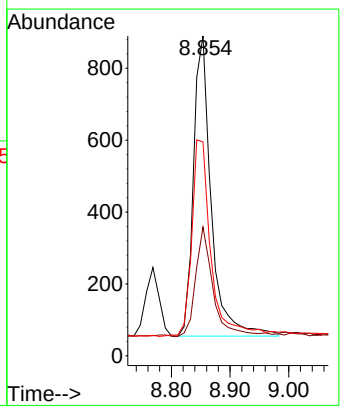


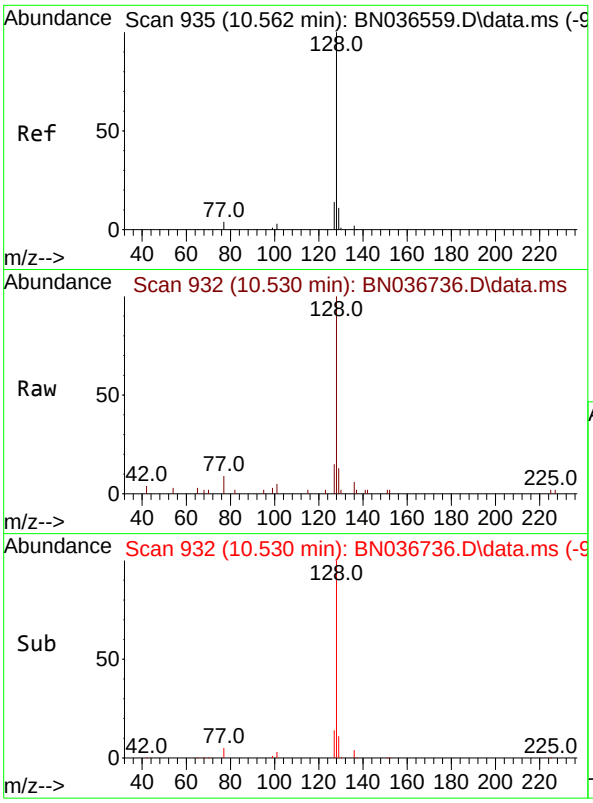


#8
Nitrobenzene-d5
Concen: 0.332 ng
RT: 8.854 min Scan# 775
Delta R.T. -0.021 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion: 82 Resp: 1760

Ion	Ratio	Lower	Upper
82	100		
128	40.2	30.6	45.8
54	66.9	52.2	78.4



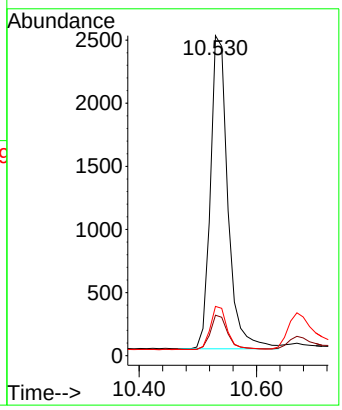


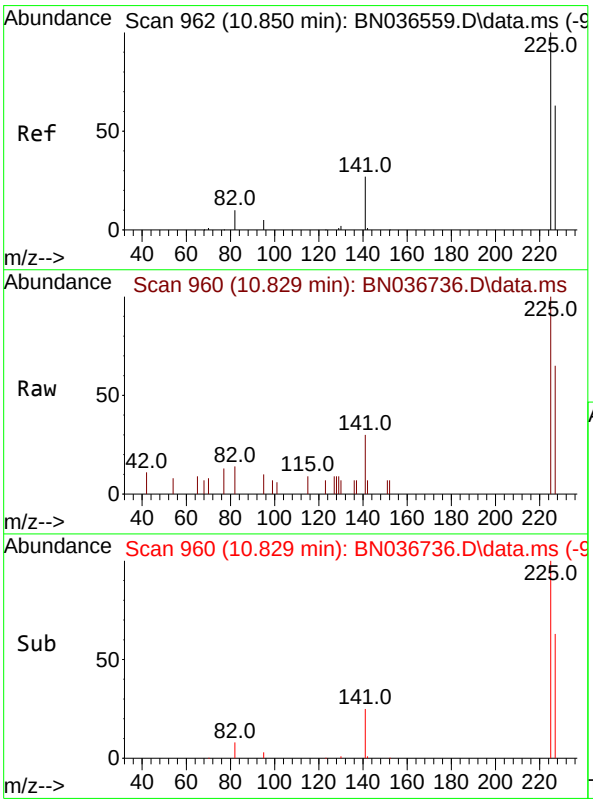
#9
Naphthalene
Concen: 0.357 ng
RT: 10.530 min Scan# 9
Delta R.T. -0.032 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:128 Resp: 5118

Ion	Ratio	Lower	Upper
128	100		
129	12.7	9.8	14.6
127	15.4	11.8	17.8

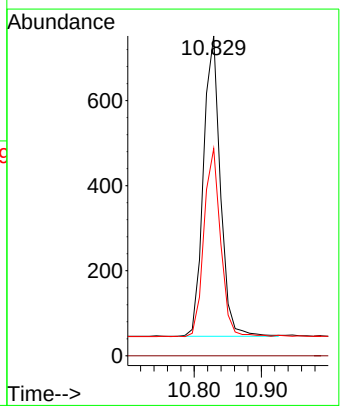


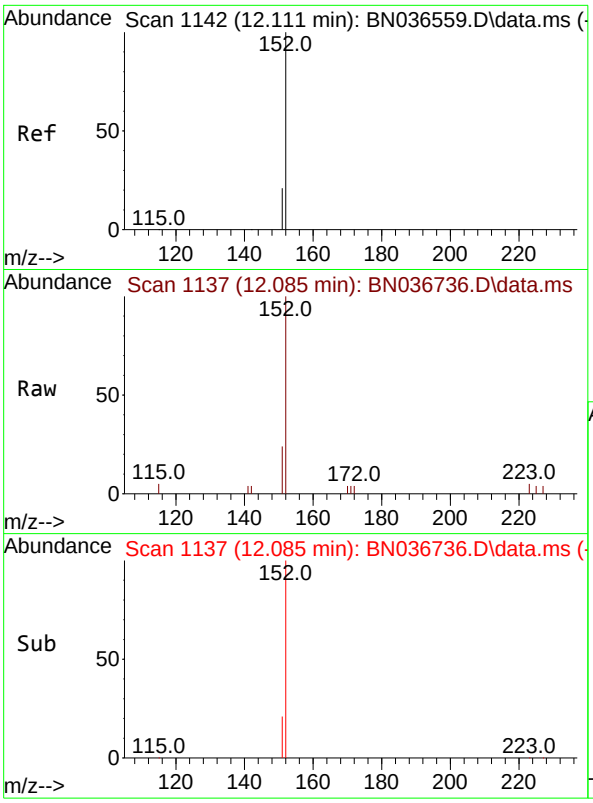


#10
Hexachlorobutadiene
Concen: 0.365 ng
RT: 10.829 min Scan# 960
Delta R.T. -0.021 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:225 Resp: 1232

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	61.7	51.8	77.8



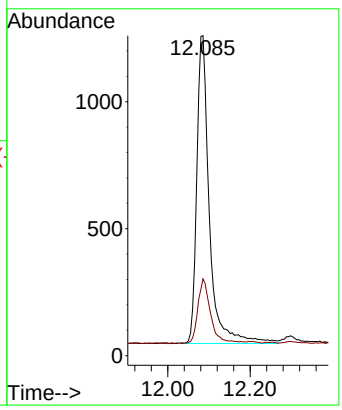


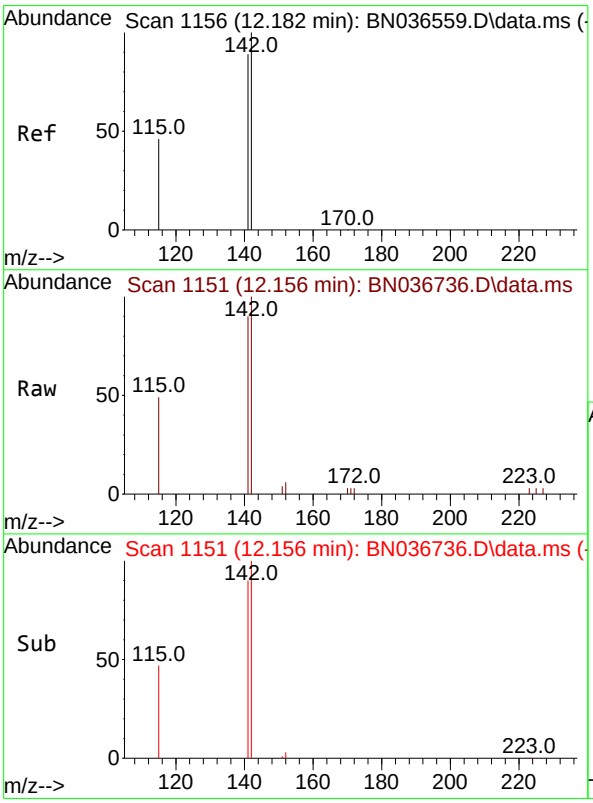
#11
2-Methylnaphthalene-d10
Concen: 0.356 ng
RT: 12.085 min Scan# 11
Delta R.T. -0.025 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 2584

Ion	Ratio	Lower	Upper
152	100		
151	21.2	17.0	25.6

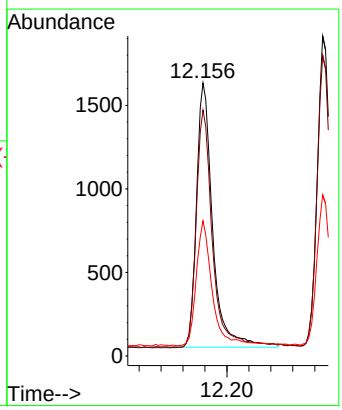


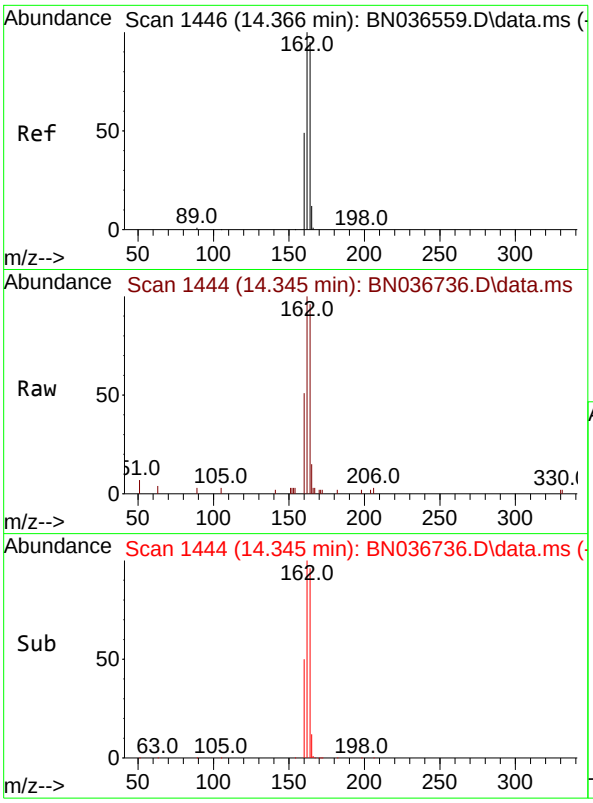


#12
2-Methylnaphthalene
Concen: 0.355 ng
RT: 12.156 min Scan# 1151
Delta R.T. -0.025 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:142 Resp: 3238

Ion	Ratio	Lower	Upper
142	100		
141	90.1	71.7	107.5
115	49.4	38.3	57.5



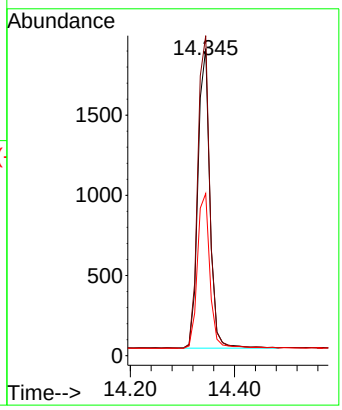


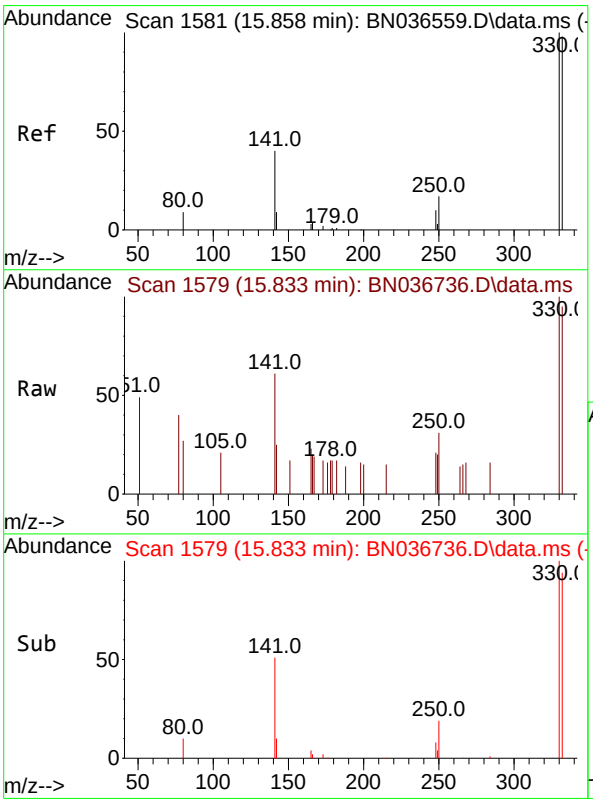
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 14
Delta R.T. -0.021 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:164 Resp: 2980

Ion	Ratio	Lower	Upper
164	100		
162	104.2	84.2	126.2
160	52.8	42.2	63.2

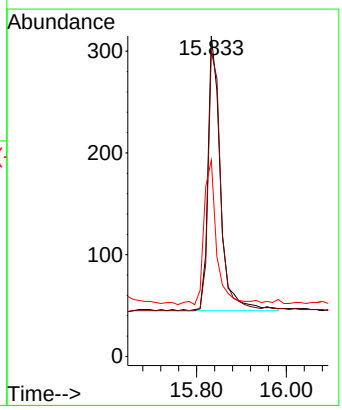


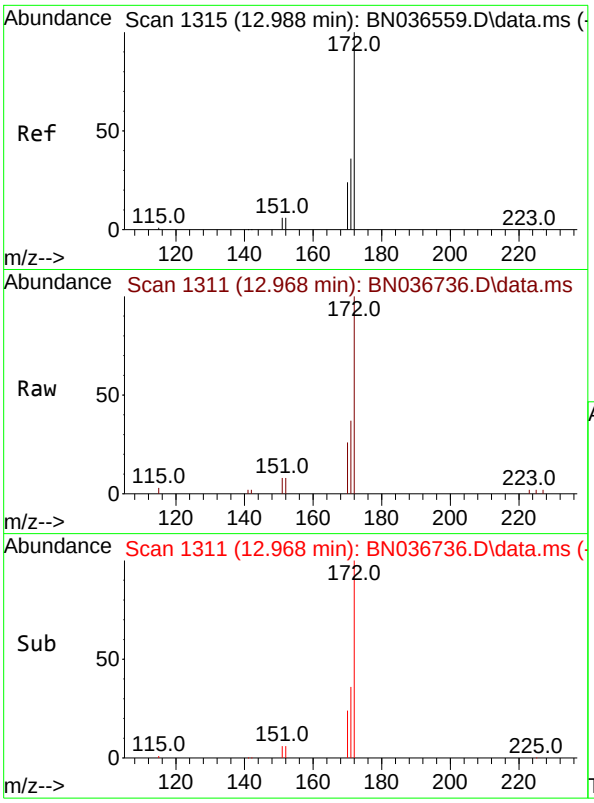


#14
2,4,6-Tribromophenol
Concen: 0.383 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.025 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:330 Resp: 518

Ion	Ratio	Lower	Upper
330	100		
332	95.4	75.2	112.8
141	53.3	43.4	65.2



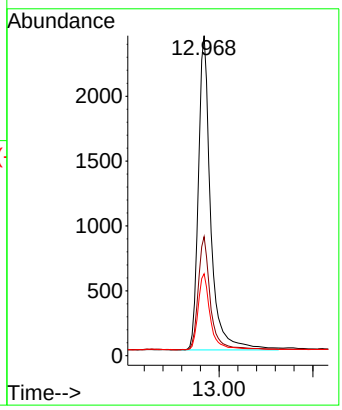


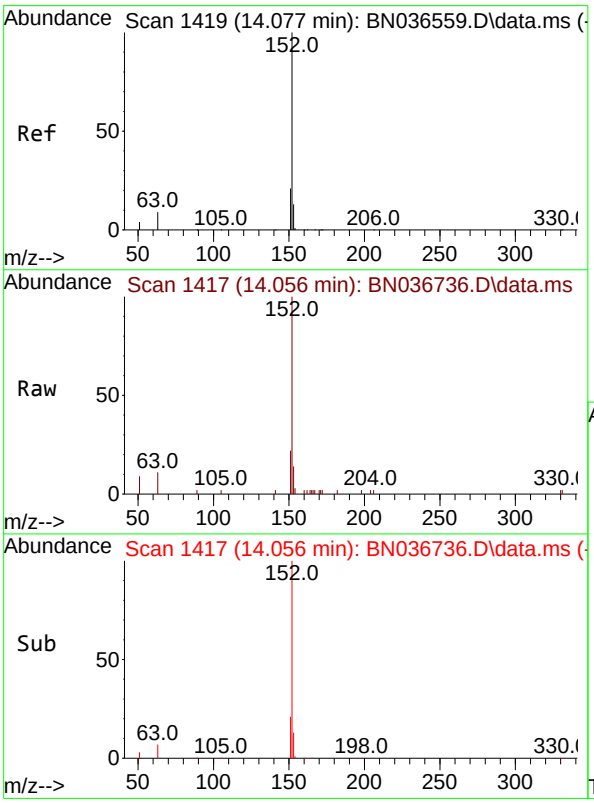
#15
2-Fluorobiphenyl
Concen: 0.344 ng
RT: 12.968 min Scan# 1
Delta R.T. -0.020 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:172 Resp: 5972

Ion	Ratio	Lower	Upper
172	100		
171	37.2	29.5	44.3
170	25.6	20.2	30.4

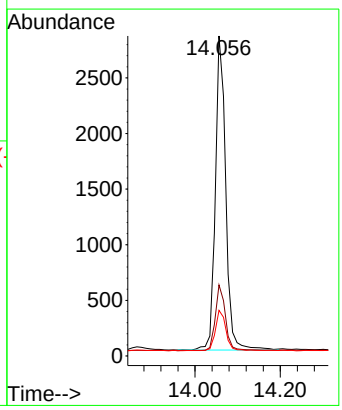


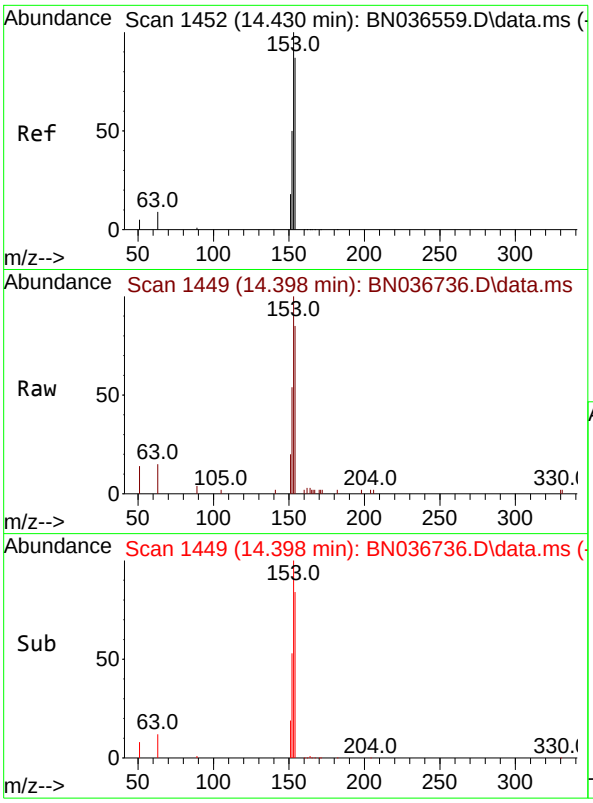


#16
Acenaphthylene
Concen: 0.340 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.021 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:152 Resp: 4782

Ion	Ratio	Lower	Upper
152	100		
151	20.5	16.2	24.4
153	13.0	10.6	15.8



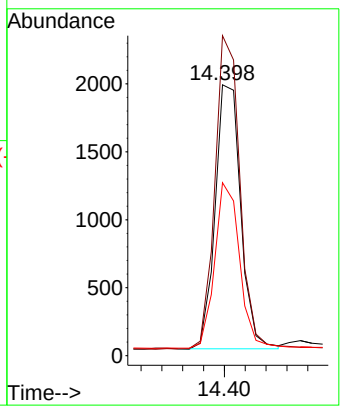


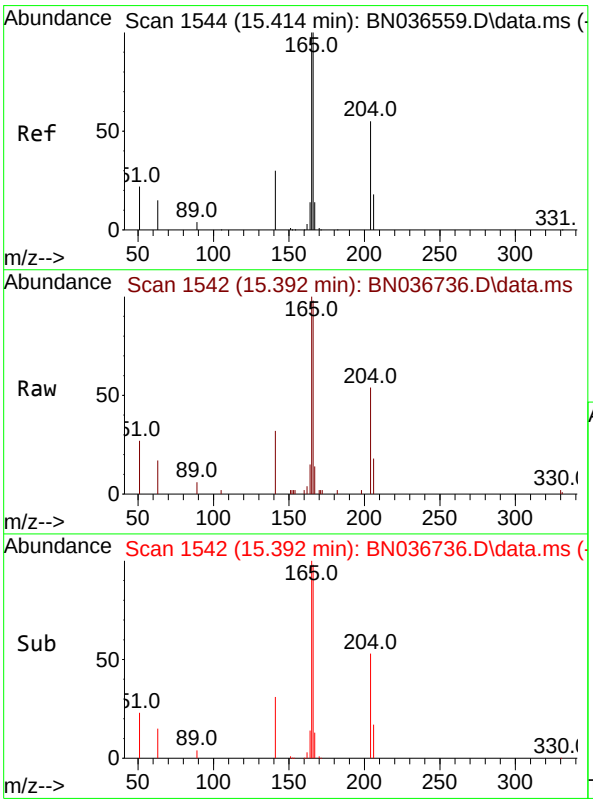
#17
Acenaphthene
Concen: 0.360 ng
RT: 14.398 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:154 Resp: 3313

Ion	Ratio	Lower	Upper
154	100		
153	118.1	94.1	141.1
152	62.4	49.8	74.6

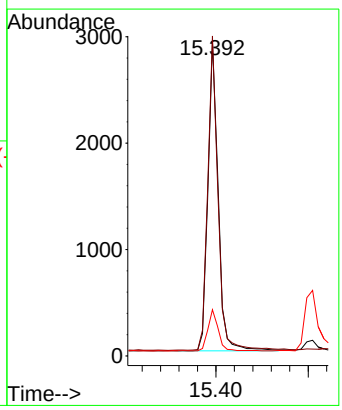


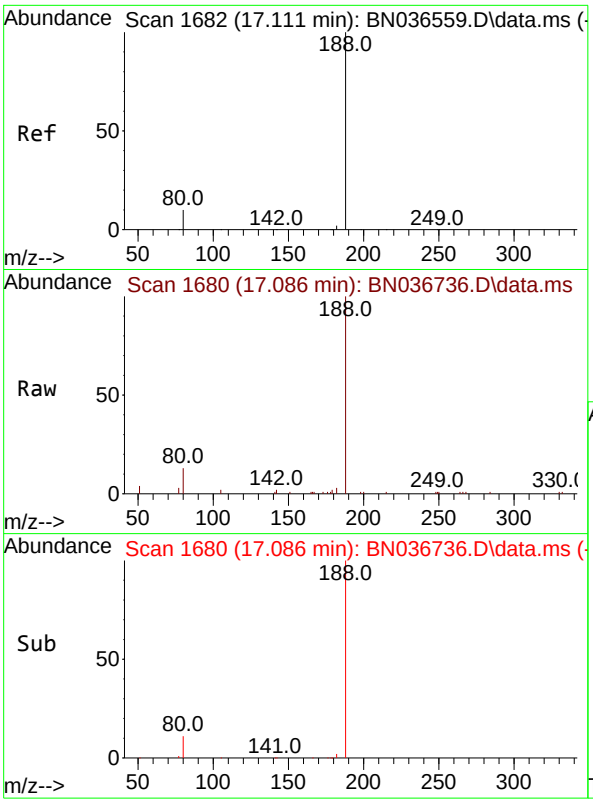


#18
Fluorene
Concen: 0.365 ng
RT: 15.392 min Scan# 1542
Delta R.T. -0.021 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:166 Resp: 4544

Ion	Ratio	Lower	Upper
166	100		
165	100.6	79.8	119.8
167	13.2	10.6	15.8



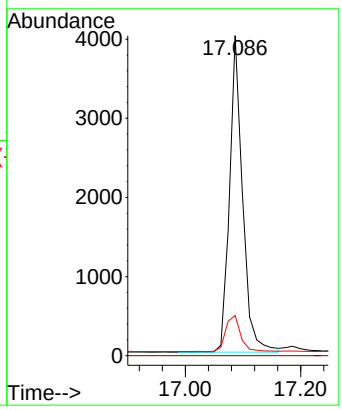


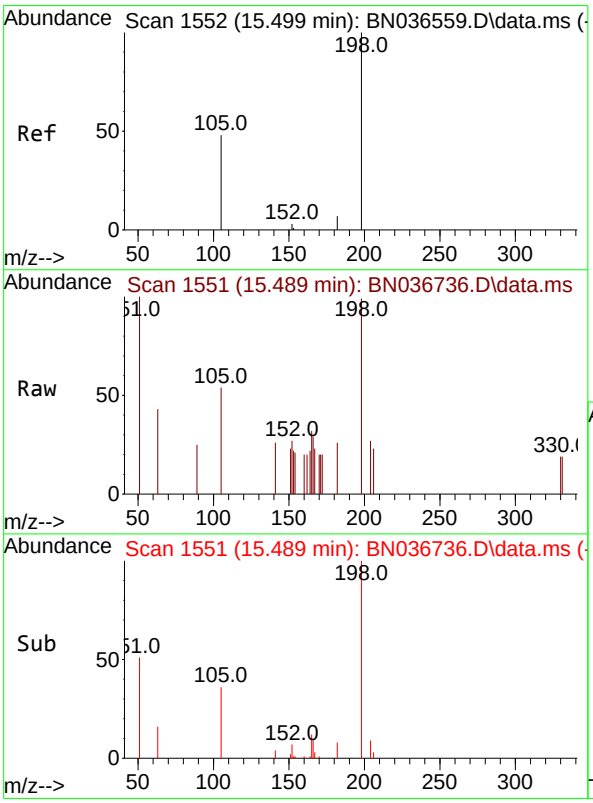
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:188 Resp: 6276

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.6	8.8	13.2

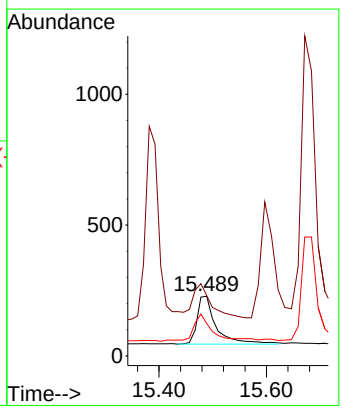


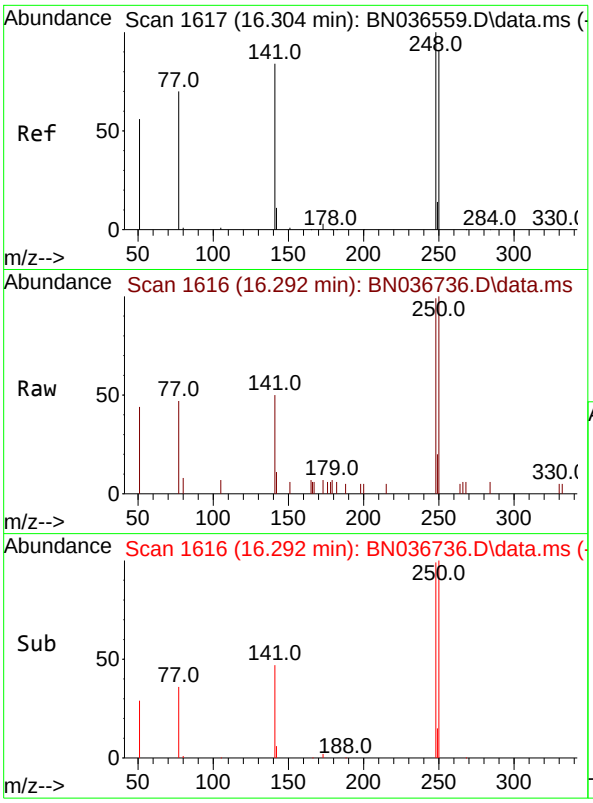


#20
4,6-Dinitro-2-methylphenol
Concen: 0.444 ng
RT: 15.489 min Scan# 1551
Delta R.T. -0.010 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:198 Resp: 478

Ion	Ratio	Lower	Upper
198	100		
51	101.3	107.9	161.9#
105	54.4	56.2	84.2#



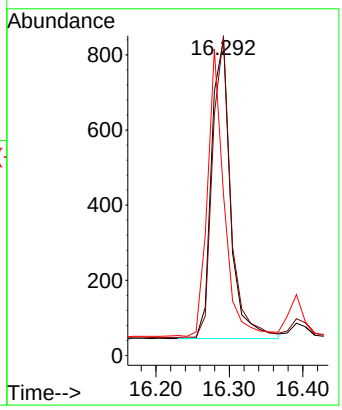


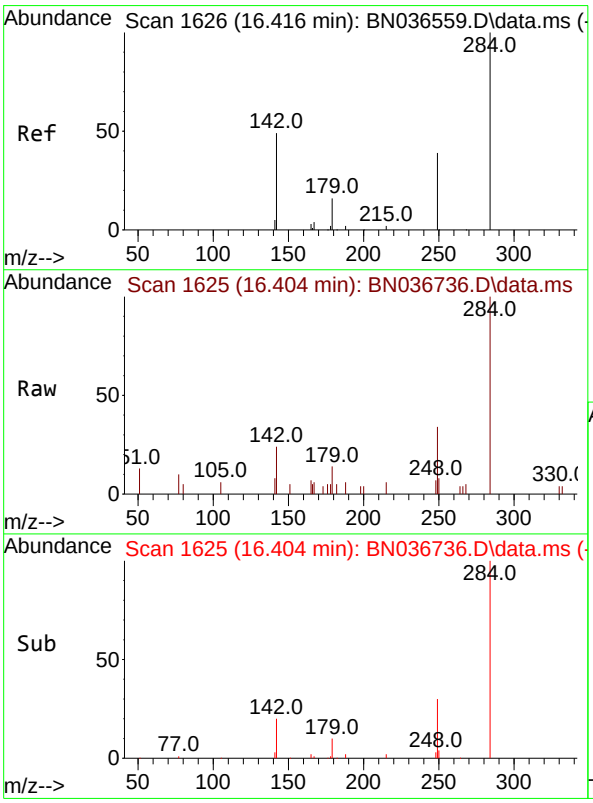
#21
4-Bromophenyl-phenylether
Concen: 0.364 ng
RT: 16.292 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:248 Resp: 1431

Ion	Ratio	Lower	Upper
248	100		
250	101.2	73.0	109.6
141	51.0	68.6	103.0#

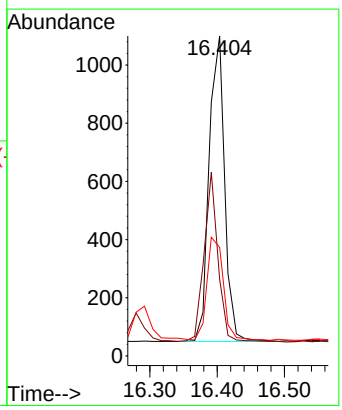


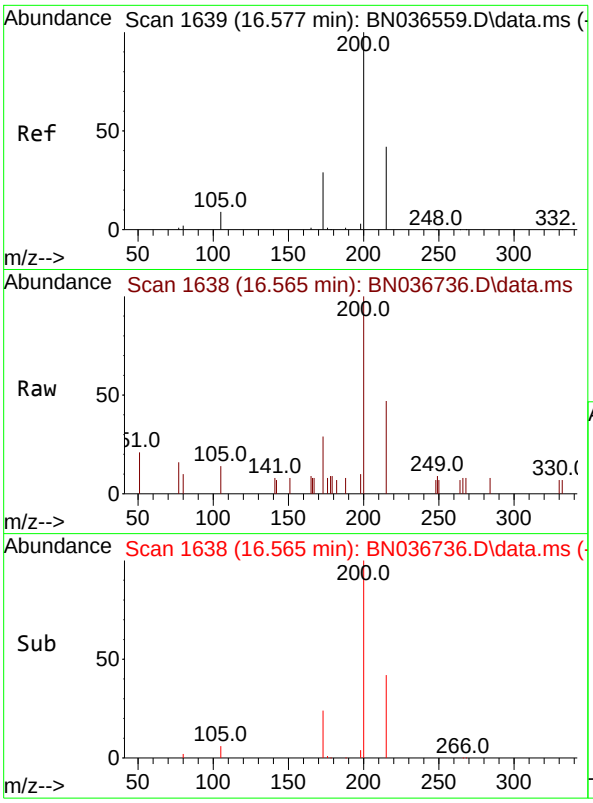


#22
Hexachlorobenzene
Concen: 0.354 ng
RT: 16.404 min Scan# 1625
Delta R.T. -0.012 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:284 Resp: 1682

Ion	Ratio	Lower	Upper
284	100		
142	50.2	37.0	55.4
249	35.7	28.1	42.1



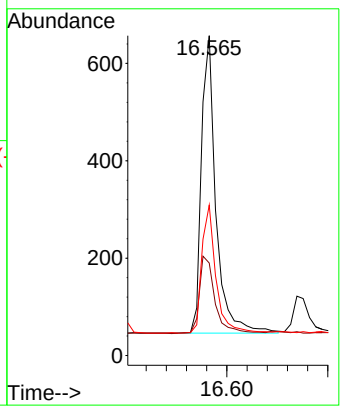


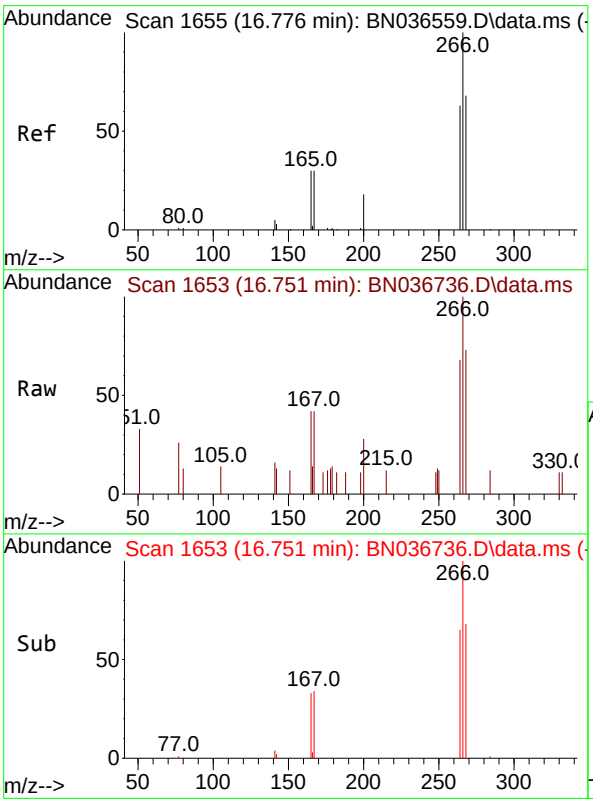
#23
Atrazine
Concen: 0.387 ng
RT: 16.565 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:200 Resp: 1221

Ion	Ratio	Lower	Upper
200	100		
173	28.9	27.3	40.9
215	47.0	36.8	55.2

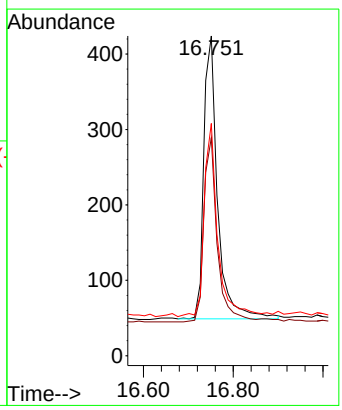


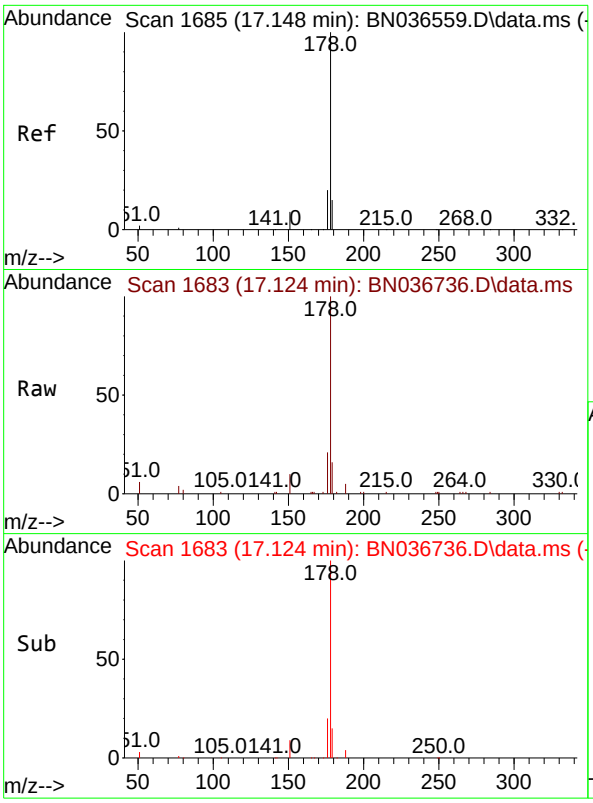


#24
Pentachlorophenol
Concen: 0.370 ng
RT: 16.751 min Scan# 1653
Delta R.T. -0.025 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:266 Resp: 801

Ion	Ratio	Lower	Upper
266	100		
264	62.7	49.6	74.4
268	66.5	50.9	76.3



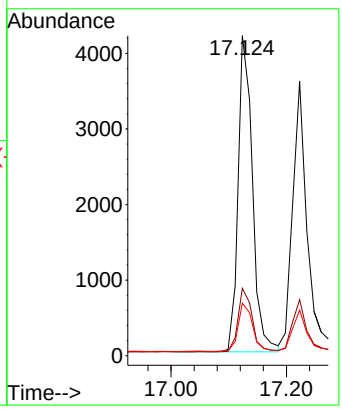


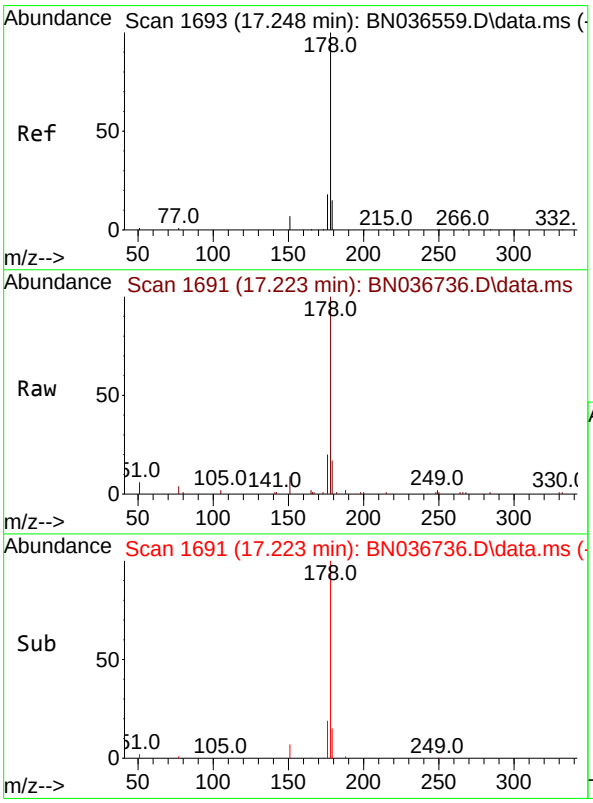
#25
Phenanthrene
Concen: 0.382 ng
RT: 17.124 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:178 Resp: 7195

Ion	Ratio	Lower	Upper
178	100		
176	19.8	15.9	23.9
179	15.3	12.2	18.4

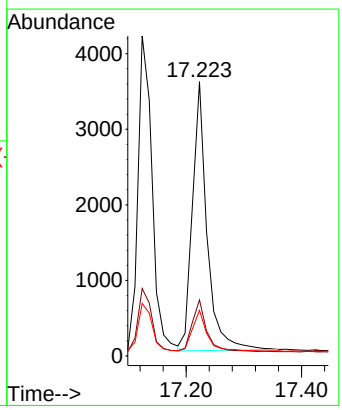


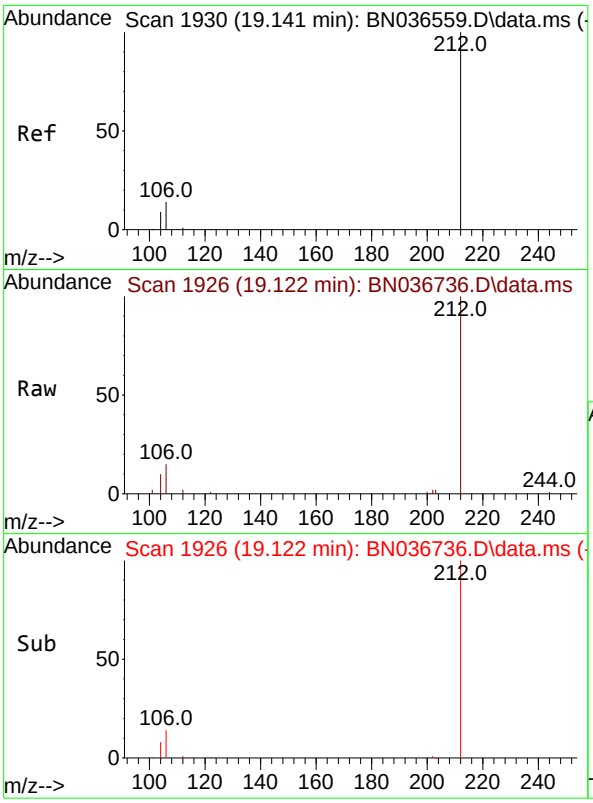


#26
Anthracene
Concen: 0.370 ng
RT: 17.223 min Scan# 1691
Delta R.T. -0.025 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:178 Resp: 6283

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.4	23.2
179	15.8	12.6	18.8



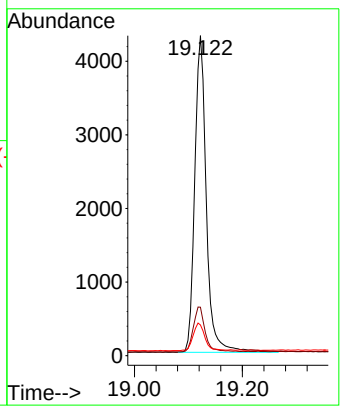


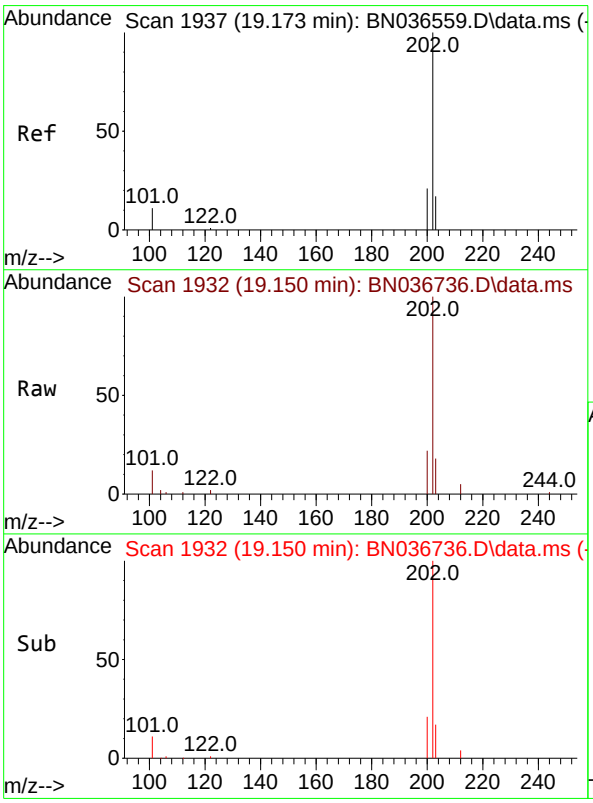
#27
Fluoranthene-d10
Concen: 0.399 ng
RT: 19.122 min Scan# 1
Delta R.T. -0.019 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:212 Resp: 6412

Ion	Ratio	Lower	Upper
212	100		
106	14.4	11.8	17.6
104	8.9	7.3	10.9

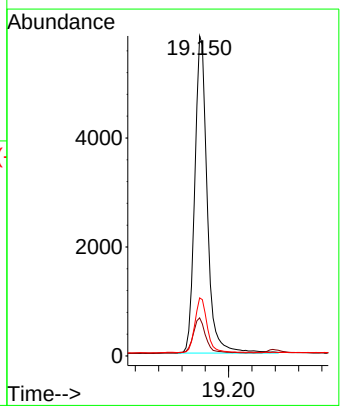


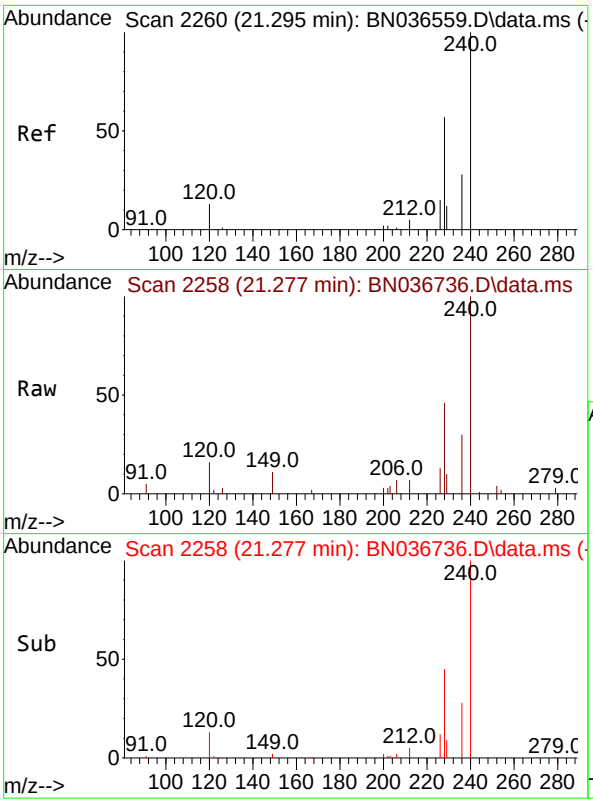


#28
Fluoranthene
Concen: 0.407 ng
RT: 19.150 min Scan# 1932
Delta R.T. -0.023 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:202 Resp: 8617

Ion	Ratio	Lower	Upper
202	100		
101	11.2	9.4	14.0
203	17.1	13.5	20.3



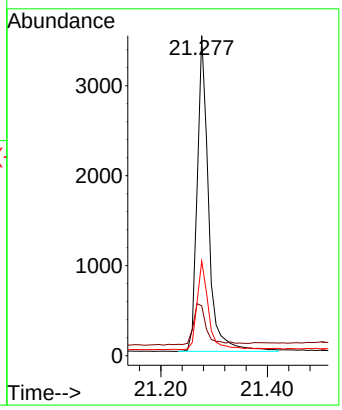


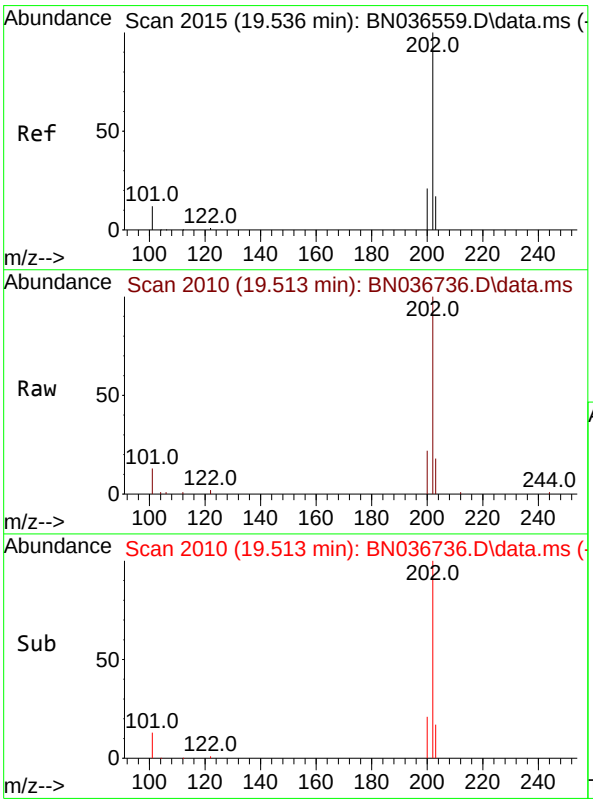
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:240 Resp: 5211

Ion	Ratio	Lower	Upper
240	100		
120	15.6	14.6	22.0
236	29.6	24.1	36.1

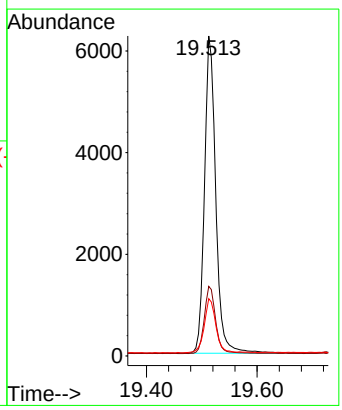


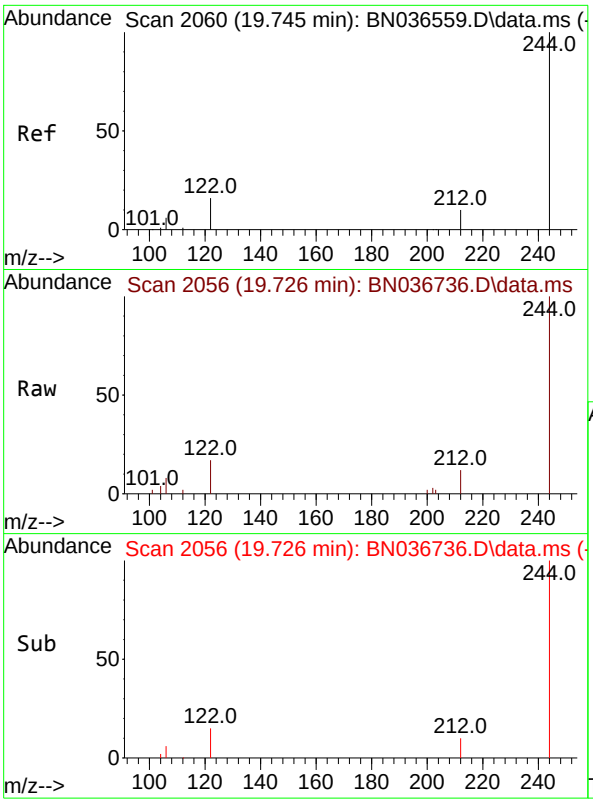


#30
Pyrene
Concen: 0.348 ng
RT: 19.513 min Scan# 2010
Delta R.T. -0.023 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:202 Resp: 8868

Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.1	25.7
203	17.4	14.1	21.1



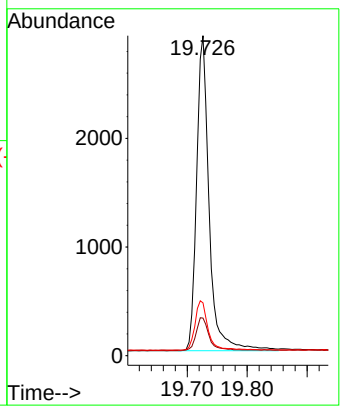


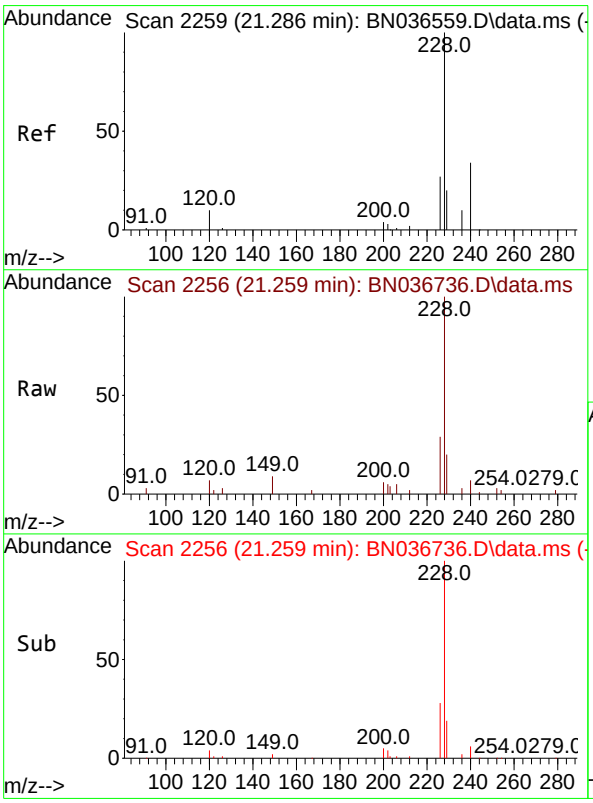
#31
Terphenyl-d14
Concen: 0.338 ng
RT: 19.726 min Scan# 2
Delta R.T. -0.019 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:244 Resp: 4220

Ion	Ratio	Lower	Upper
244	100		
212	11.7	9.6	14.4
122	16.5	13.9	20.9

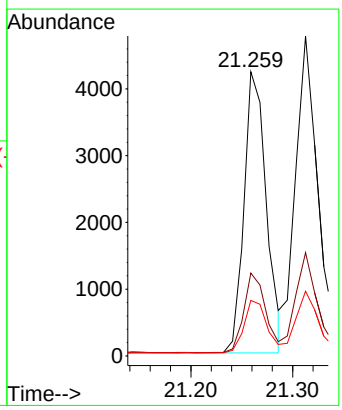


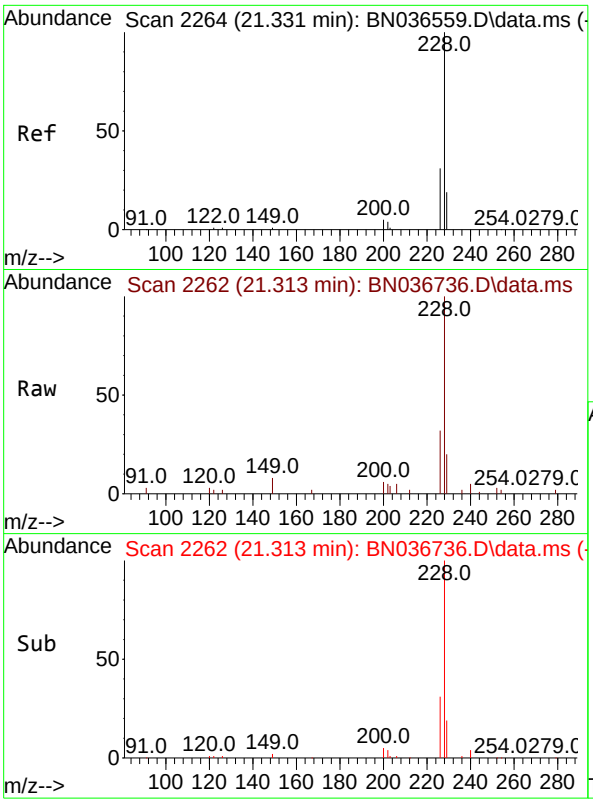


#32
Benzo(a)anthracene
Concen: 0.354 ng
RT: 21.259 min Scan# 2256
Delta R.T. -0.027 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:228 Resp: 6412

Ion	Ratio	Lower	Upper
228	100		
226	29.2	22.5	33.7
229	19.5	16.6	25.0



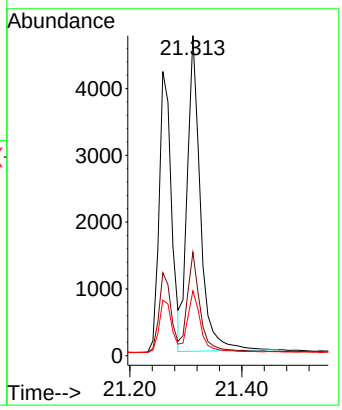


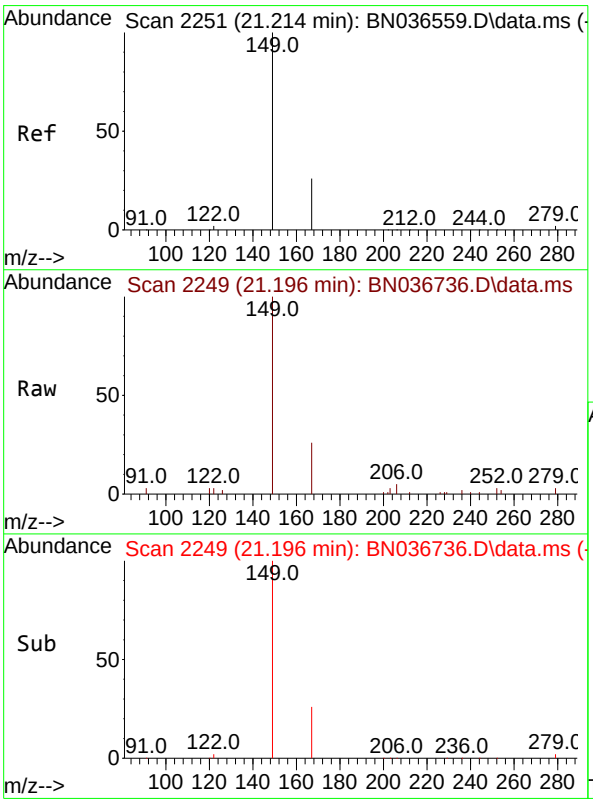
#33
Chrysene
Concen: 0.387 ng
RT: 21.313 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:228 Resp: 7670

Ion	Ratio	Lower	Upper
228	100		
226	32.3	25.3	37.9
229	20.2	15.8	23.8

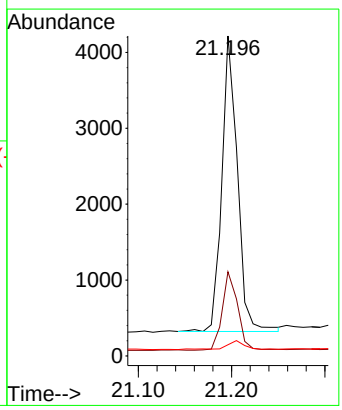


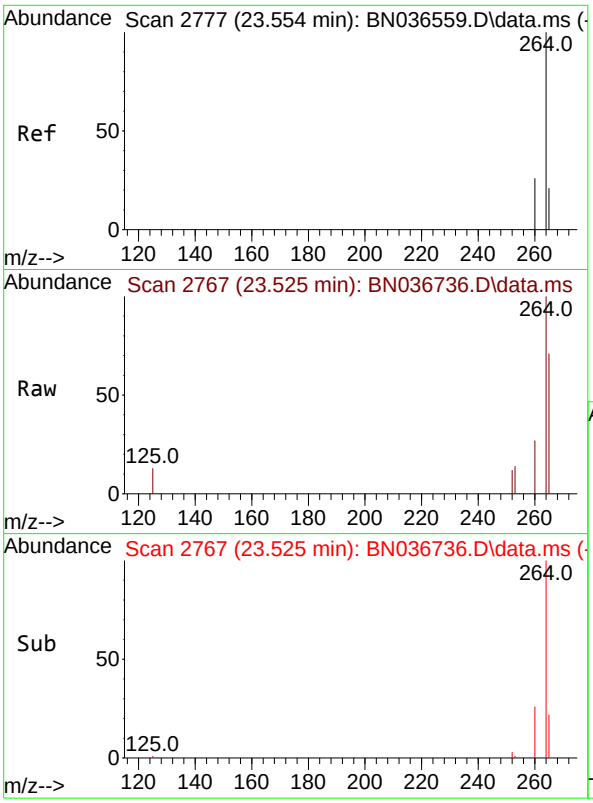


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.349 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:149 Resp: 4505

Ion	Ratio	Lower	Upper
149	100		
167	26.3	20.7	31.1
279	2.9	3.6	5.4#



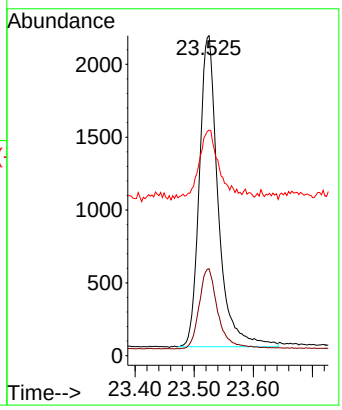


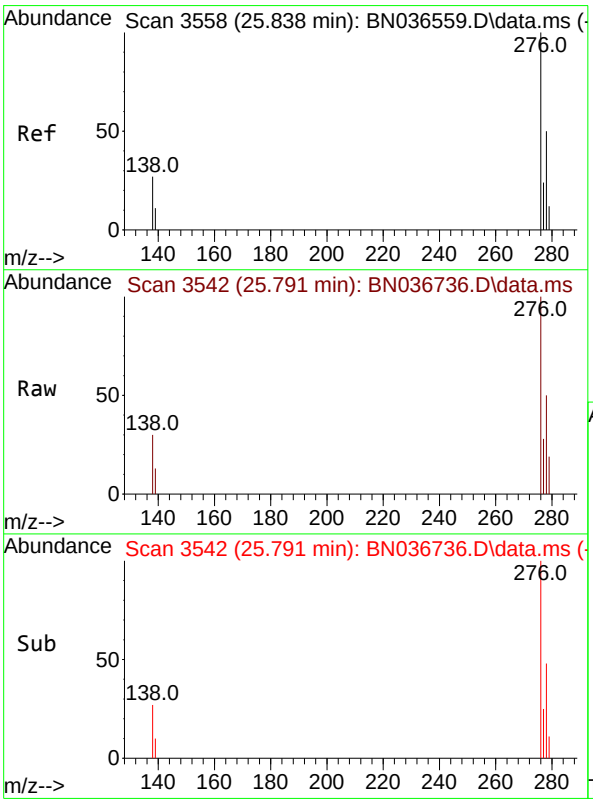
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.525 min Scan# 2
Delta R.T. -0.029 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:264 Resp: 4739

Ion	Ratio	Lower	Upper
264	100		
260	27.1	22.6	33.8
265	70.5	88.1	132.1#

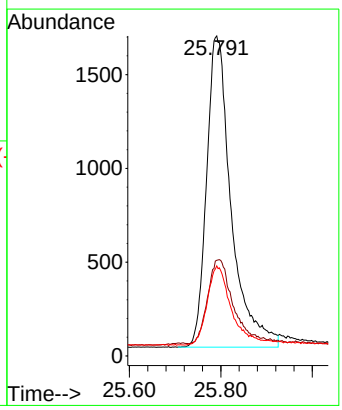


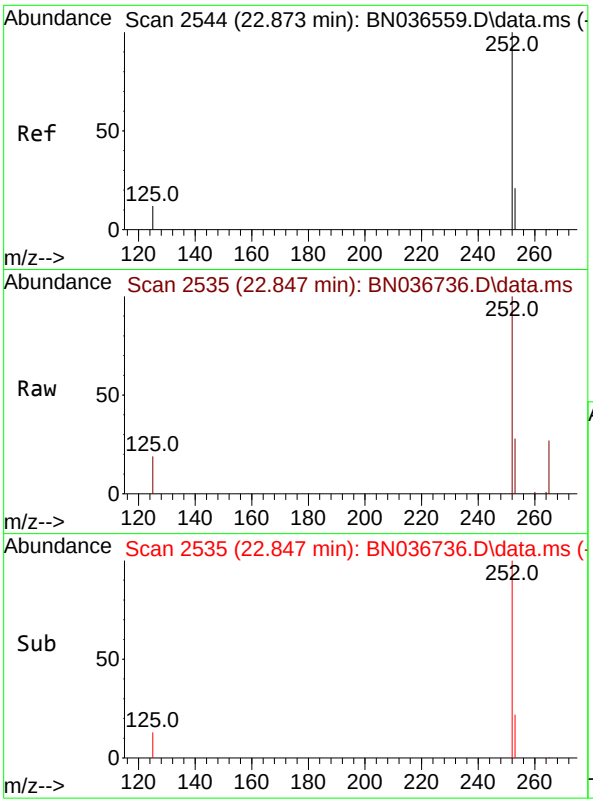


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.362 ng
RT: 25.791 min Scan# 3542
Delta R.T. -0.047 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:276 Resp: 6199

Ion	Ratio	Lower	Upper
276	100		
138	27.5	23.4	35.2
277	24.9	20.0	30.0



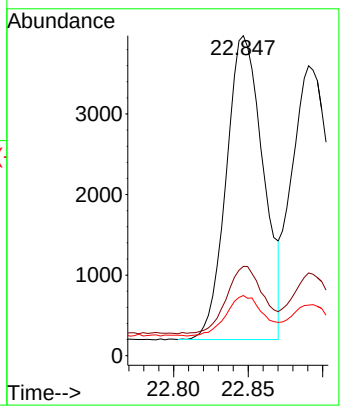


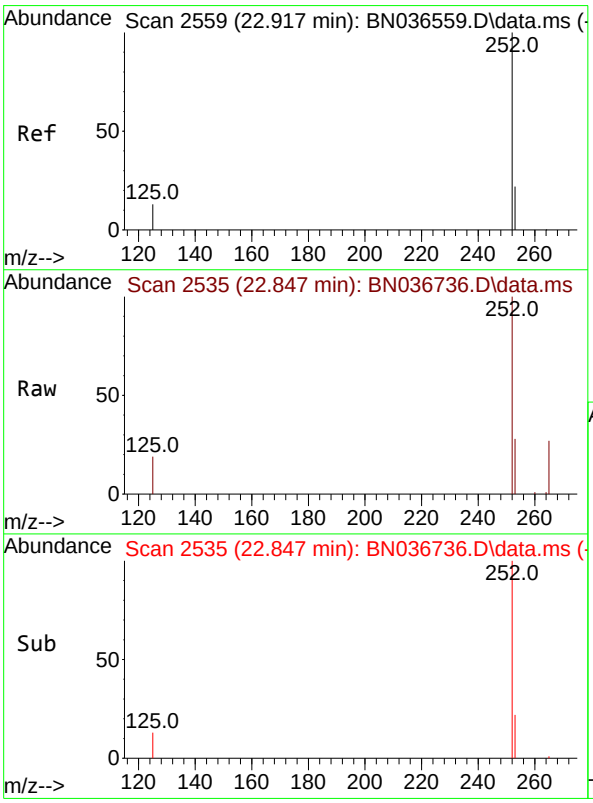
#37
Benzo(b)fluoranthene
Concen: 0.378 ng
RT: 22.847 min Scan# 2
Delta R.T. -0.026 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:252 Resp: 6514

Ion	Ratio	Lower	Upper
252	100		
253	27.9	23.9	35.9
125	18.8	17.4	26.2

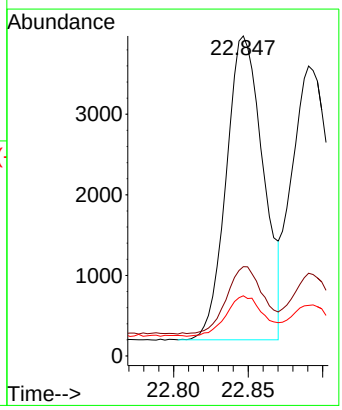


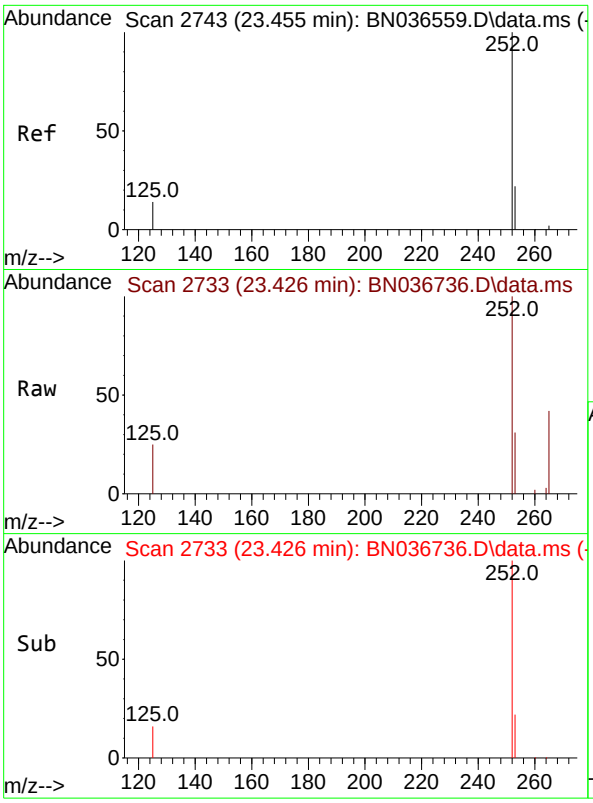


#38
Benzo(k)fluoranthene
Concen: 0.360 ng
RT: 22.847 min Scan# 2535
Delta R.T. -0.070 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:252 Resp: 6514

Ion	Ratio	Lower	Upper
252	100		
253	27.9	24.6	36.8
125	18.8	17.8	26.8



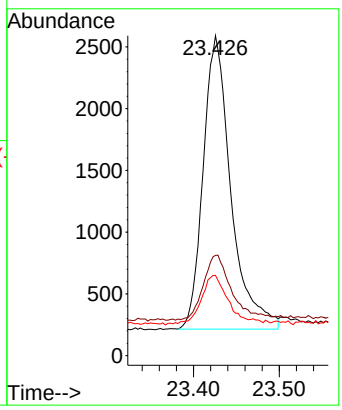


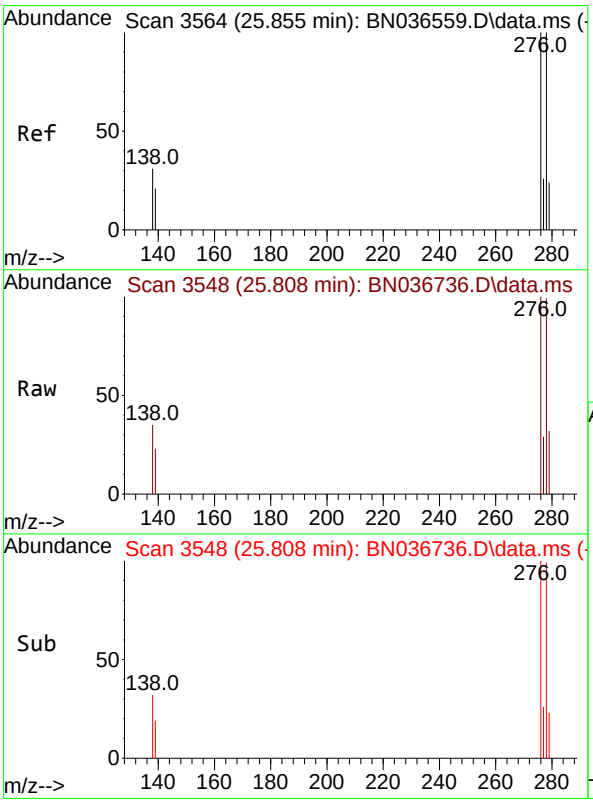
#39
Benzo(a)pyrene
Concen: 0.368 ng
RT: 23.426 min Scan# 2
Delta R.T. -0.029 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:252 Resp: 5338

Ion	Ratio	Lower	Upper
252	100		
253	31.3	27.8	41.8
125	25.1	22.7	34.1

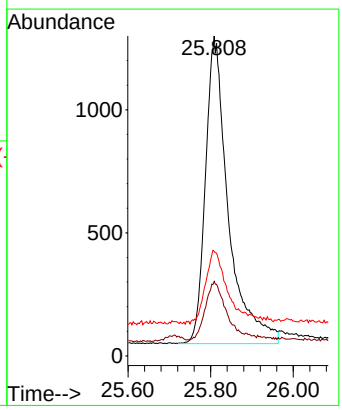


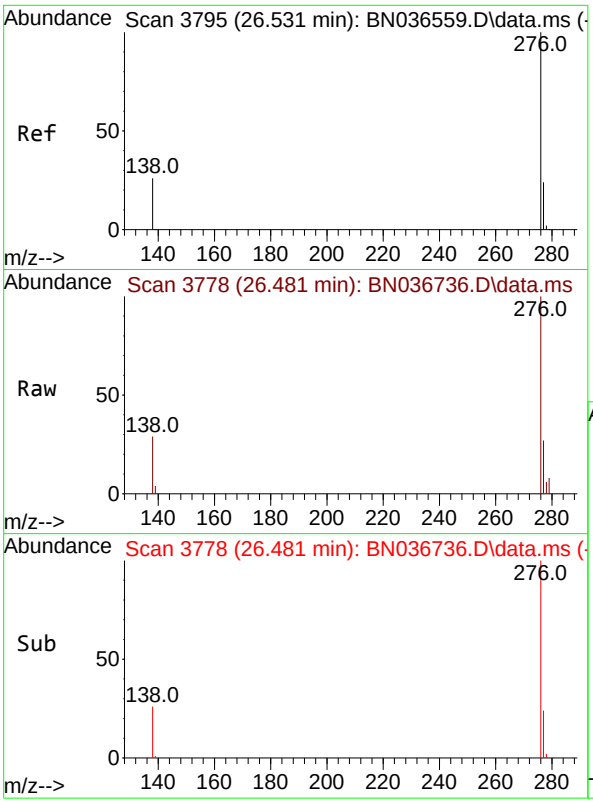


#40
Dibenzo(a,h)anthracene
Concen: 0.361 ng
RT: 25.808 min Scan# 3548
Delta R.T. -0.047 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:278 Resp: 4803

Ion	Ratio	Lower	Upper
278	100		
139	23.3	20.8	31.2
279	32.7	28.8	43.2



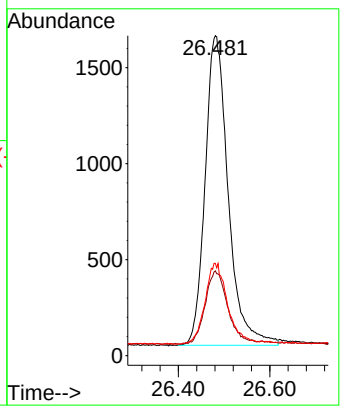


#41
Benzo(g,h,i)perylene
Concen: 0.372 ng
RT: 26.481 min Scan# 3
Delta R.T. -0.050 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:276 Resp: 5667

Ion	Ratio	Lower	Upper
276	100		
277	26.5	22.2	33.4
138	28.9	24.1	36.1



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036738.D
Acq On : 27 Mar 2025 15:38
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Mar 27 16:33:11 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.703	152	1523	0.400	ng		-0.02
7) Naphthalene-d8	10.487	136	3803	0.400	ng		-0.02
13) Acenaphthene-d10	14.345	164	2348	0.400	ng		-0.02
19) Phenanthrene-d10	17.086	188	4989	0.400	ng		#-0.02
29) Chrysene-d12	21.277	240	4385	0.400	ng		-0.02
35) Perylene-d12	23.525	264	4045	0.400	ng		#-0.03
System Monitoring Compounds							
4) 2-Fluorophenol	5.290	112	1294	0.365	ng		-0.02
5) Phenol-d6	6.872	99	1536	0.350	ng		-0.03
8) Nitrobenzene-d5	8.854	82	1363	0.329	ng		-0.02
11) 2-Methylnaphthalene-d10	12.085	152	2034	0.360	ng		-0.03
14) 2,4,6-Tribromophenol	15.833	330	414	0.389	ng		-0.02
15) 2-Fluorobiphenyl	12.968	172	4725	0.346	ng		-0.02
27) Fluoranthene-d10	19.122	212	5220	0.408	ng		-0.02
31) Terphenyl-d14	19.726	244	3465	0.330	ng		-0.02
Target Compounds							Qvalue
2) 1,4-Dioxane	3.225	88	721	0.427	ng		93
3) n-Nitrosodimethylamine	3.535	42	1301	0.381	ng	#	99
6) bis(2-Chloroethyl)ether	7.132	93	1533	0.338	ng		95
9) Naphthalene	10.541	128	4045	0.362	ng		98
10) Hexachlorobutadiene	10.829	225	955	0.363	ng	#	98
12) 2-Methylnaphthalene	12.156	142	2514	0.353	ng		96
16) Acenaphthylene	14.056	152	3861	0.348	ng		100
17) Acenaphthene	14.398	154	2582	0.356	ng		99
18) Fluorene	15.392	166	3631	0.370	ng		99
20) 4,6-Dinitro-2-methylph...	15.489	198	370	0.436	ng		81
21) 4-Bromophenyl-phenylether	16.292	248	1147	0.367	ng	#	80
22) Hexachlorobenzene	16.404	284	1358	0.360	ng		97
23) Atrazine	16.565	200	991	0.395	ng		95
24) Pentachlorophenol	16.751	266	662	0.385	ng		95
25) Phenanthrene	17.124	178	5704	0.381	ng		100
26) Anthracene	17.223	178	4989	0.369	ng		99
28) Fluoranthene	19.150	202	6959	0.414	ng		99
30) Pyrene	19.517	202	7305	0.341	ng		100
32) Benzo(a)anthracene	21.259	228	5558	0.365	ng		98
33) Chrysene	21.313	228	6163	0.370	ng		100
34) Bis(2-ethylhexyl)phtha...	21.196	149	3633	0.335	ng	#	98
36) Indeno(1,2,3-cd)pyrene	25.791	276	5346	0.366	ng		98
37) Benzo(b)fluoranthene	22.850	252	5508	0.374	ng		97
38) Benzo(k)fluoranthene	22.893	252	5599	0.363	ng		96
39) Benzo(a)pyrene	23.426	252	4841	0.391	ng		96
40) Dibenzo(a,h)anthracene	25.814	278	4114	0.362	ng		95
41) Benzo(g,h,i)perylene	26.481	276	4859	0.374	ng		97

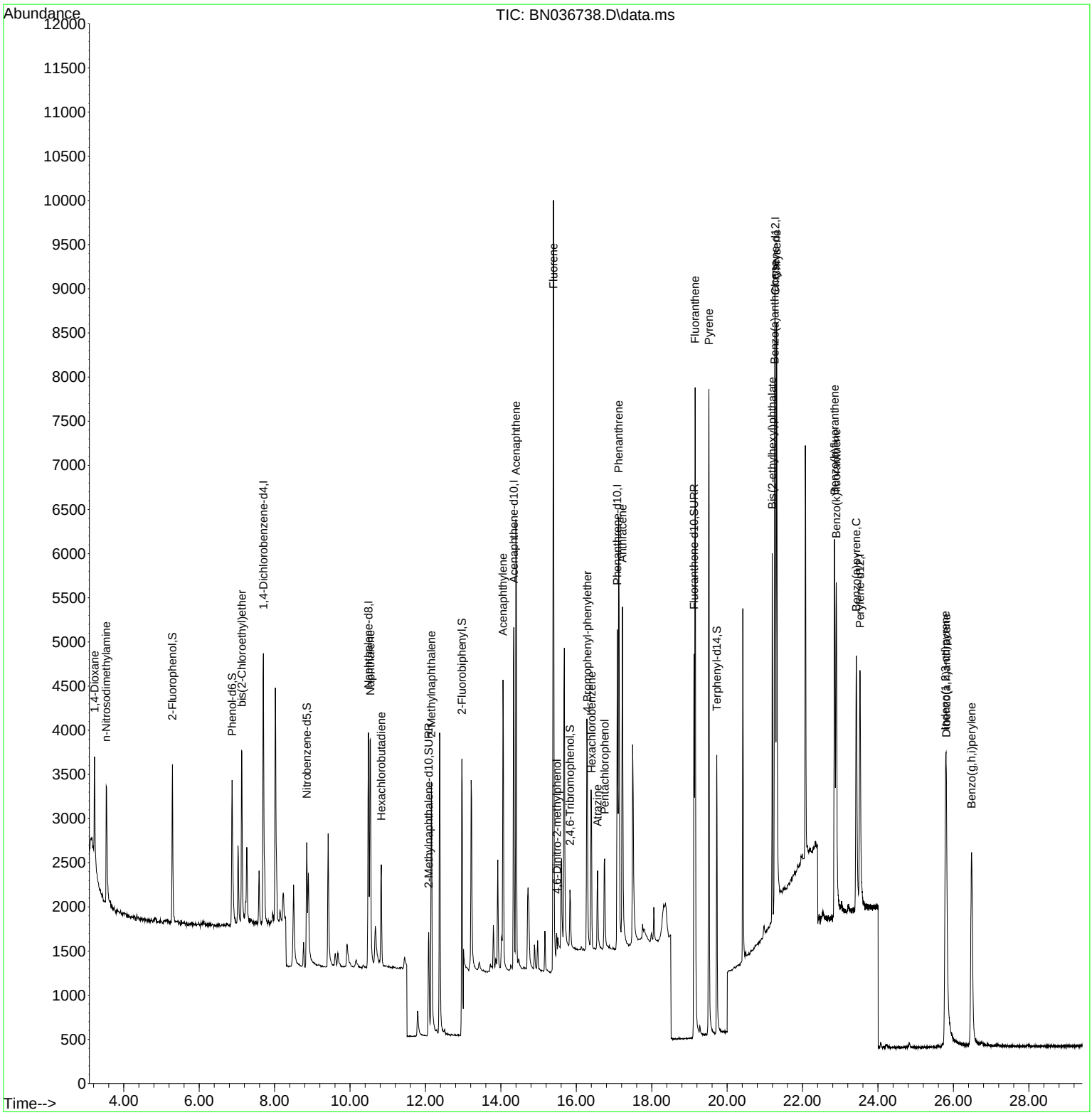
(#) = qualifier out of range (m) = manual integration (+) = signals summed

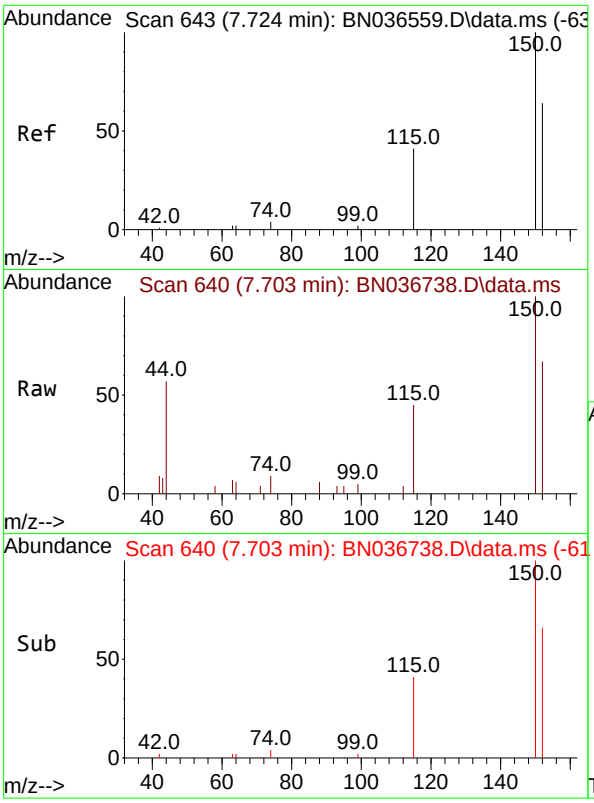
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036738.D
Acq On : 27 Mar 2025 15:38
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Mar 27 16:33:11 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



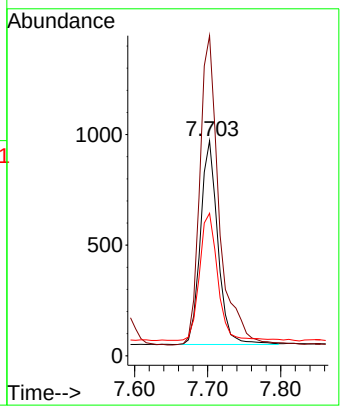


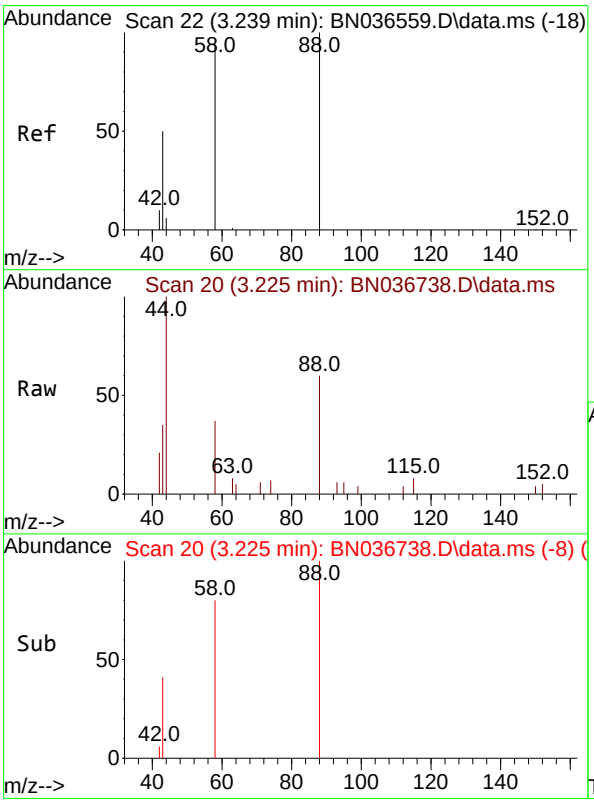
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.703 min Scan# 64
Delta R.T. -0.021 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 1523

Ion	Ratio	Lower	Upper
152	100		
150	148.9	123.7	185.5
115	66.3	54.3	81.5

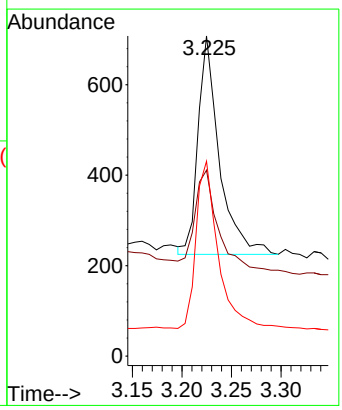


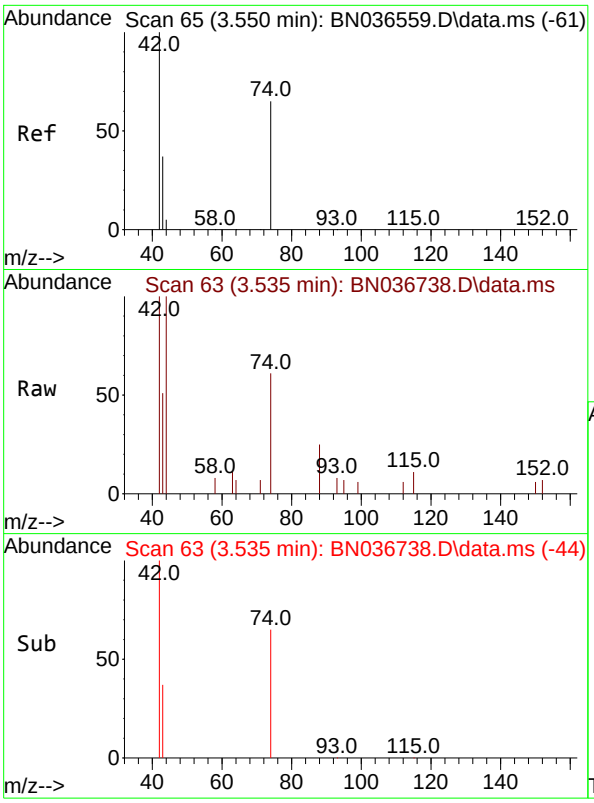


#2
1,4-Dioxane
Concen: 0.427 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion: 88 Resp: 721

Ion	Ratio	Lower	Upper
88	100		
43	52.3	37.8	56.8
58	78.6	67.4	101.2



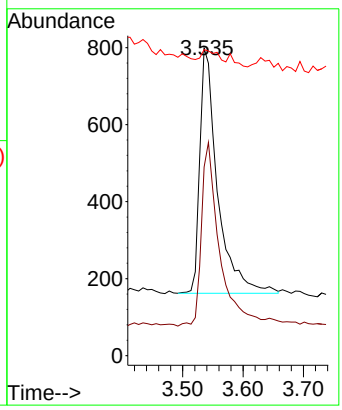


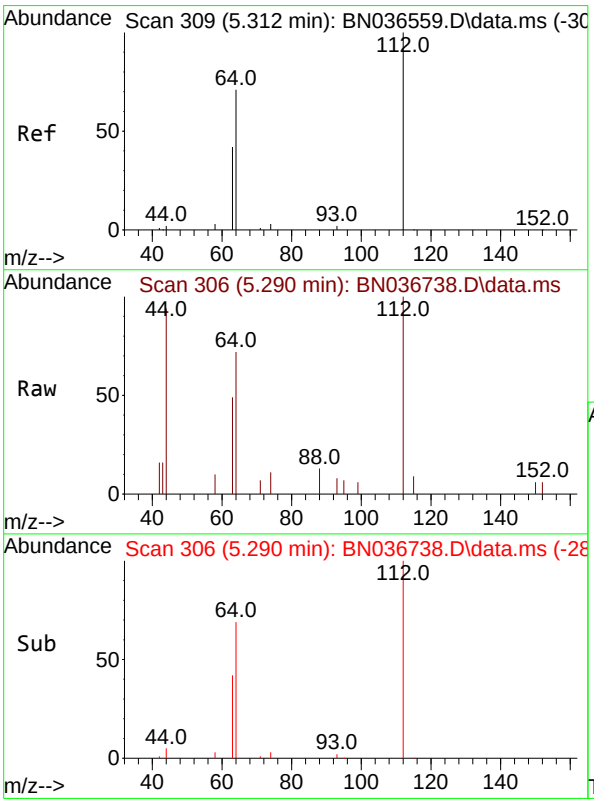
#3
n-Nitrosodimethylamine
Concen: 0.381 ng
RT: 3.535 min Scan# 6
Delta R.T. -0.014 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 42 Resp: 1301

Ion	Ratio	Lower	Upper
42	100		
74	75.9	60.6	90.8
44	4.1	6.3	9.5#

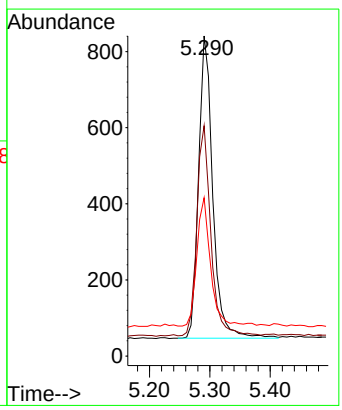


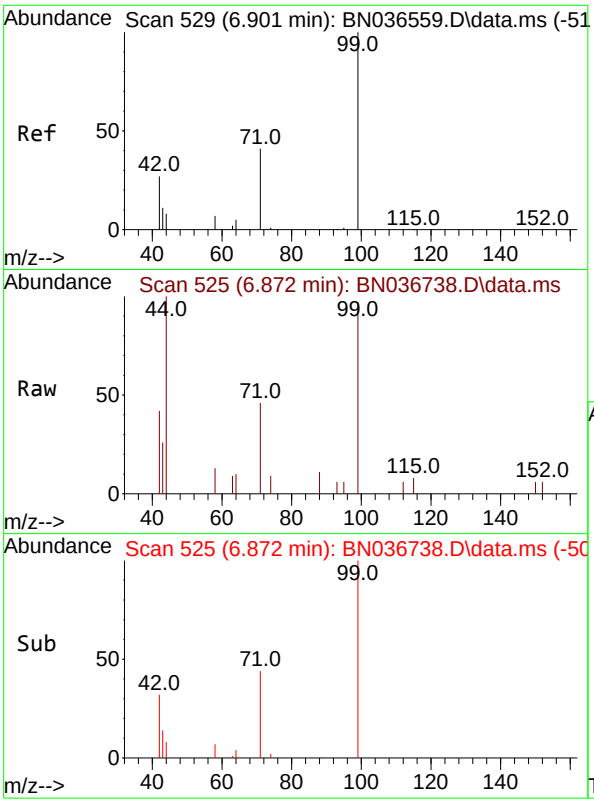


#4
2-Fluorophenol
Concen: 0.365 ng
RT: 5.290 min Scan# 306
Delta R.T. -0.022 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:112 Resp: 1294

Ion	Ratio	Lower	Upper
112	100		
64	69.9	53.1	79.7
63	40.8	31.8	47.8



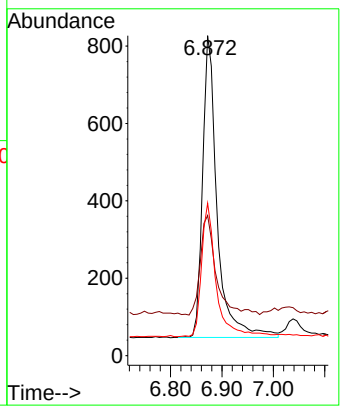


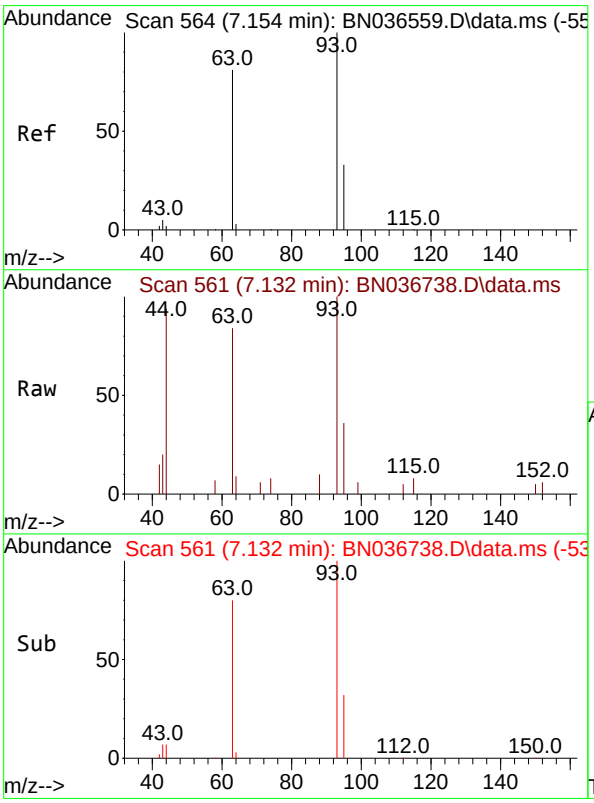
#5
Phenol-d6
Concen: 0.350 ng
RT: 6.872 min Scan# 5
Delta R.T. -0.029 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 99 Resp: 1536

Ion	Ratio	Lower	Upper
99	100		
42	35.2	26.5	39.7
71	44.3	34.1	51.1

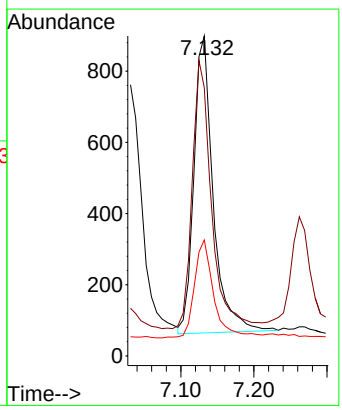


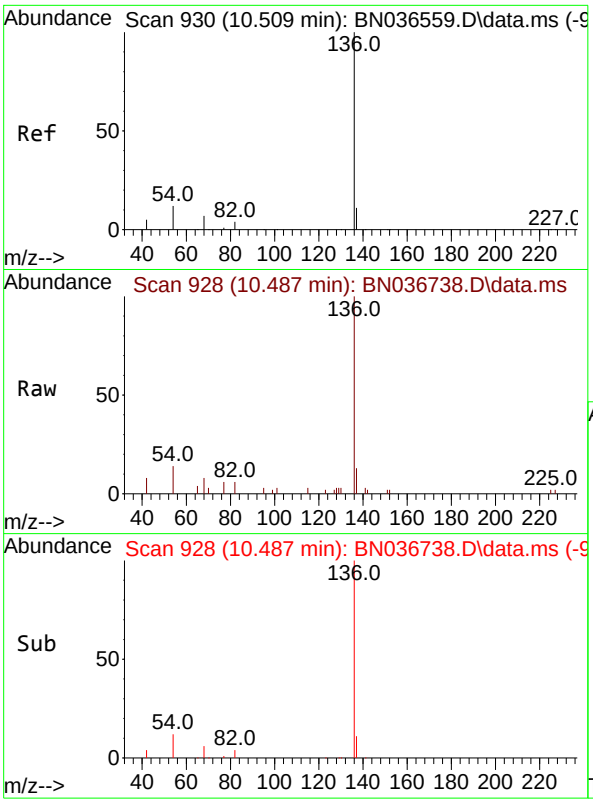


#6
bis(2-Chloroethyl)ether
Concen: 0.338 ng
RT: 7.132 min Scan# 561
Delta R.T. -0.022 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion: 93 Resp: 1533

Ion	Ratio	Lower	Upper
93	100		
63	90.0	67.7	101.5
95	33.1	25.6	38.4



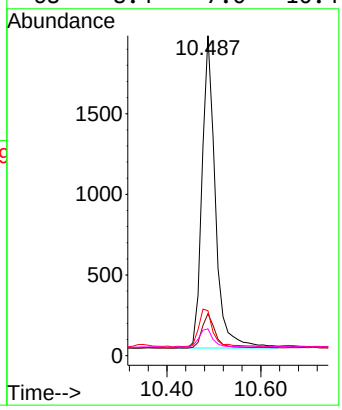


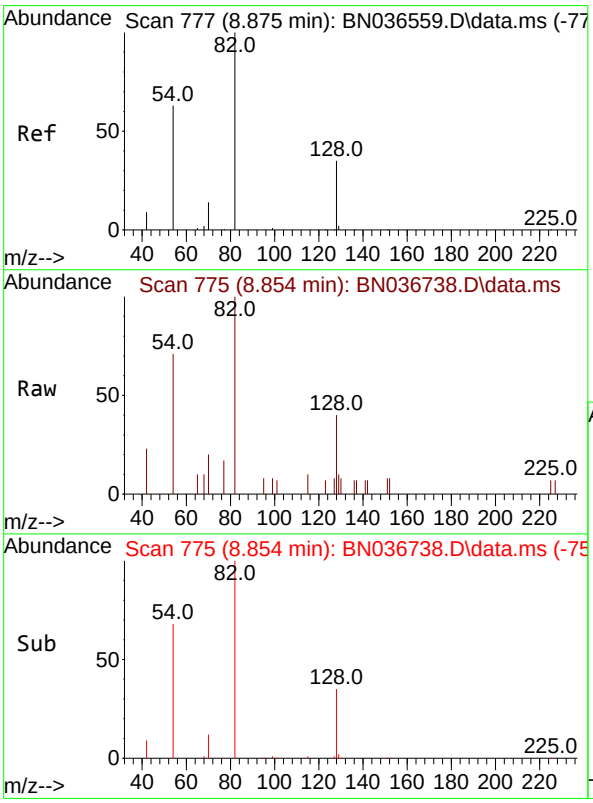
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.487 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:136 Resp: 3803

Ion	Ratio	Lower	Upper
136	100		
137	13.1	10.3	15.5
54	14.0	11.5	17.3
68	8.4	7.0	10.4

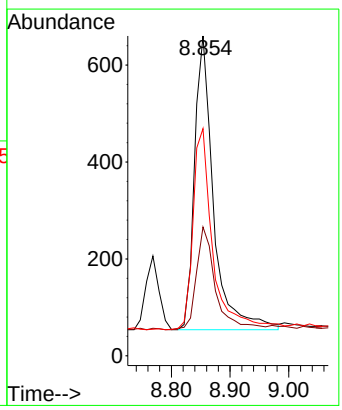


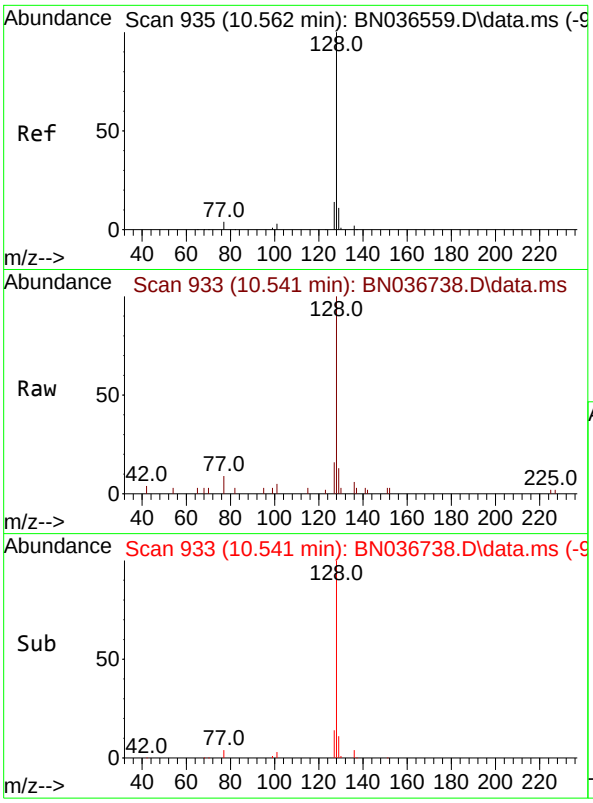


#8
Nitrobenzene-d5
Concen: 0.329 ng
RT: 8.854 min Scan# 775
Delta R.T. -0.021 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion: 82 Resp: 1363

Ion	Ratio	Lower	Upper
82	100		
128	40.3	30.6	45.8
54	71.1	52.2	78.4



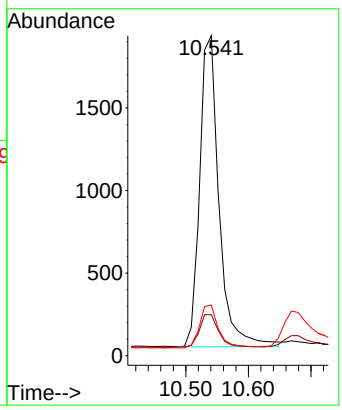


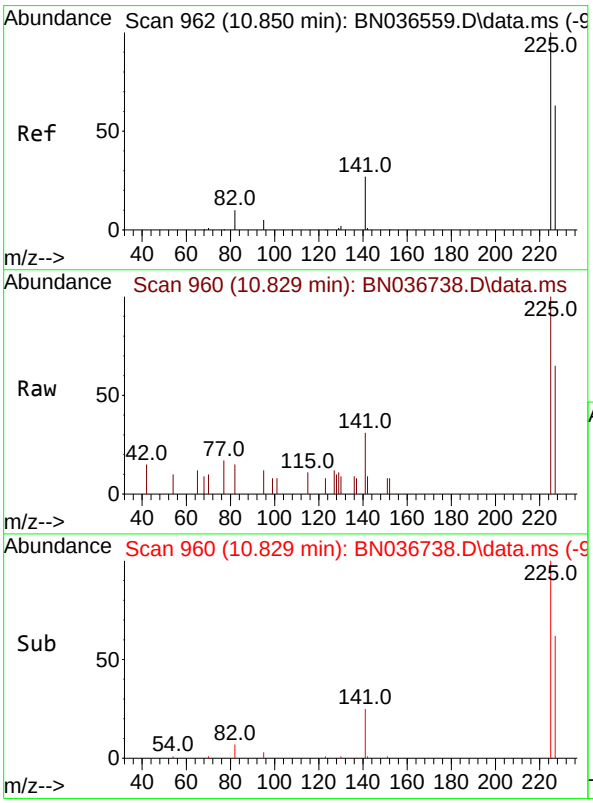
#9
Naphthalene
Concen: 0.362 ng
RT: 10.541 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:128 Resp: 4045

Ion	Ratio	Lower	Upper
128	100		
129	12.8	9.8	14.6
127	15.8	11.8	17.8

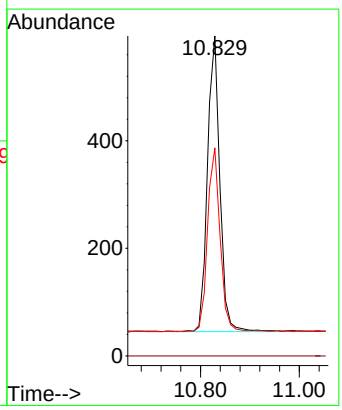


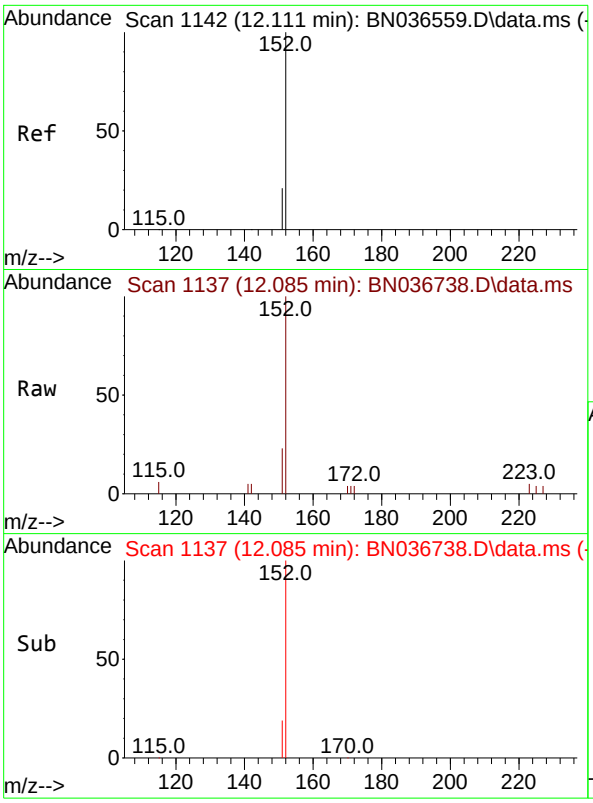


#10
Hexachlorobutadiene
Concen: 0.363 ng
RT: 10.829 min Scan# 960
Delta R.T. -0.021 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:225 Resp: 955

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.4	51.8	77.8



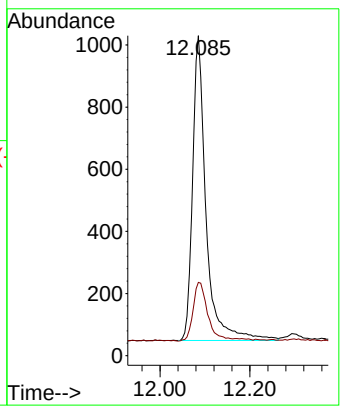


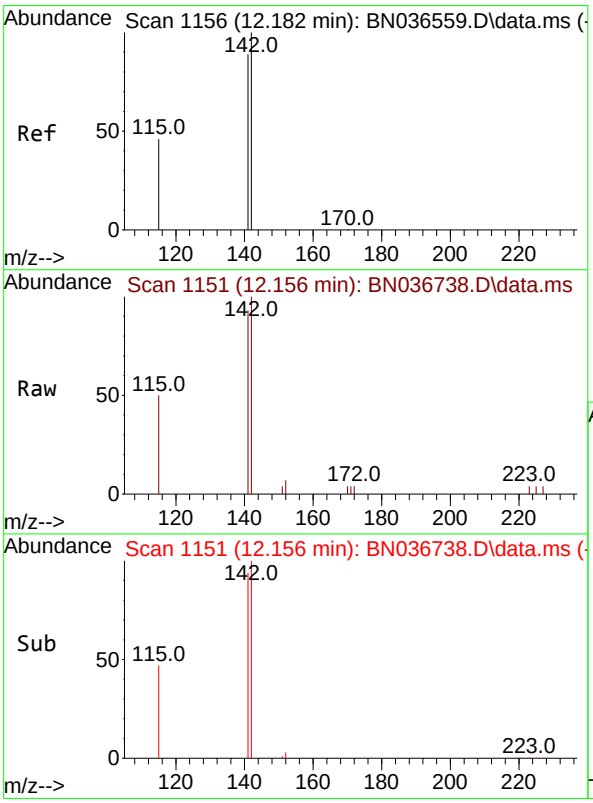
#11
2-Methylnaphthalene-d10
Concen: 0.360 ng
RT: 12.085 min Scan# 11
Delta R.T. -0.025 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 2034

Ion	Ratio	Lower	Upper
152	100		
151	20.9	17.0	25.6

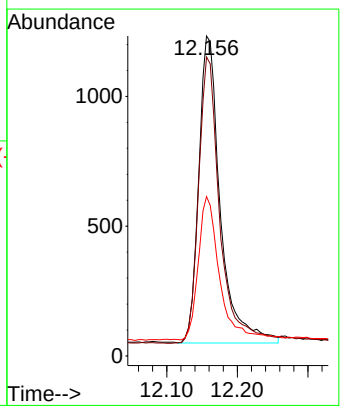


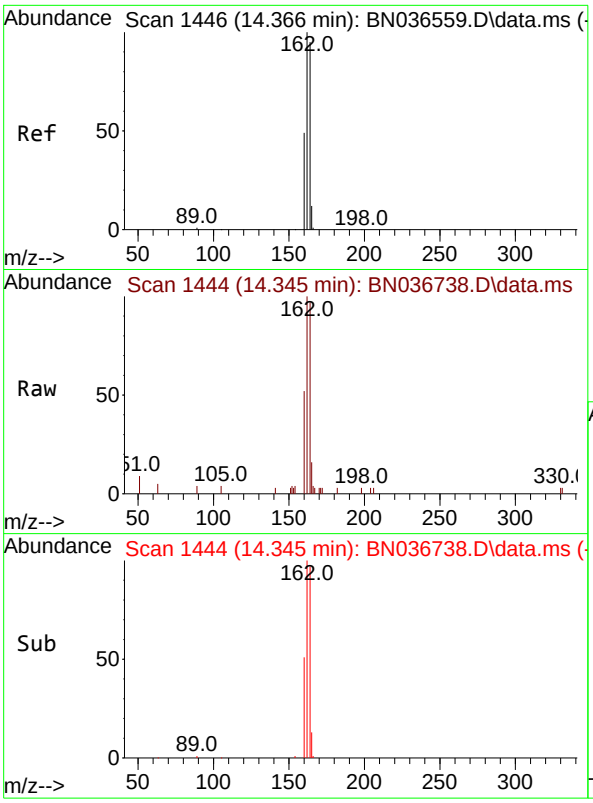


#12
2-Methylnaphthalene
Concen: 0.353 ng
RT: 12.156 min Scan# 1151
Delta R.T. -0.025 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:142 Resp: 2514

Ion	Ratio	Lower	Upper
142	100		
141	93.4	71.7	107.5
115	49.8	38.3	57.5



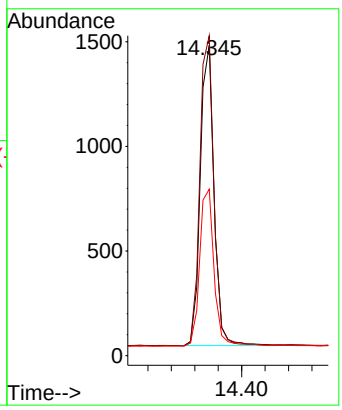


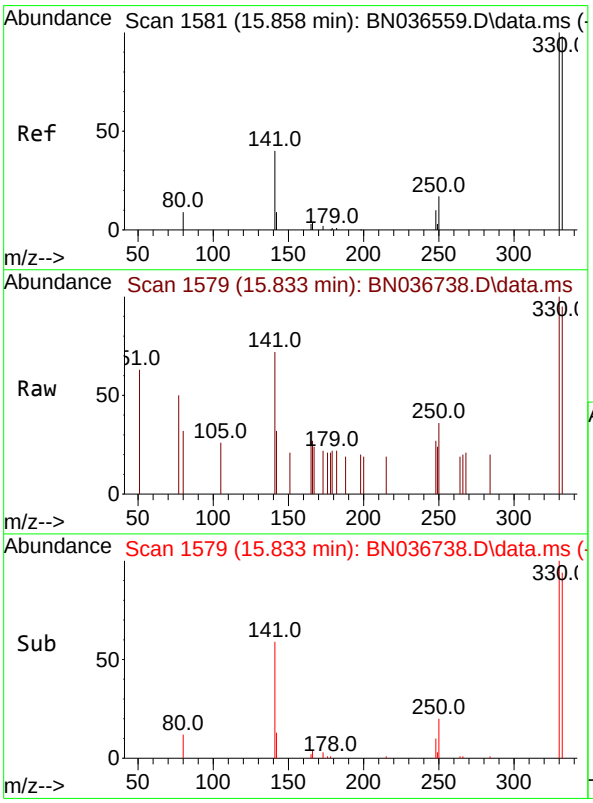
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 14
Delta R.T. -0.021 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:164 Resp: 2348

Ion	Ratio	Lower	Upper
164	100		
162	103.1	84.2	126.2
160	53.7	42.2	63.2

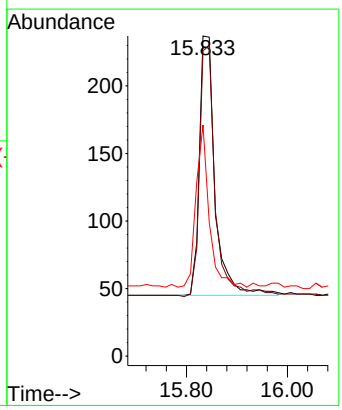


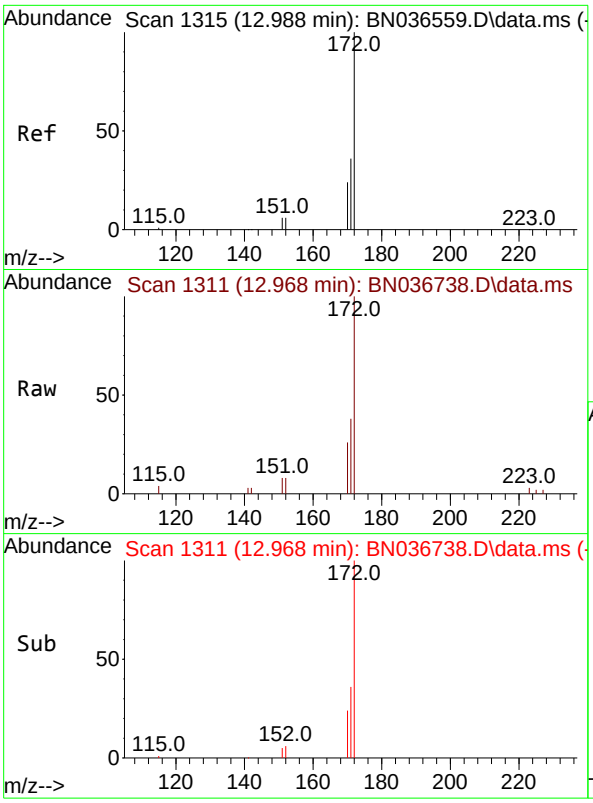


#14
2,4,6-Tribromophenol
Concen: 0.389 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.025 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:330 Resp: 414

Ion	Ratio	Lower	Upper
330	100		
332	97.6	75.2	112.8
141	52.7	43.4	65.2



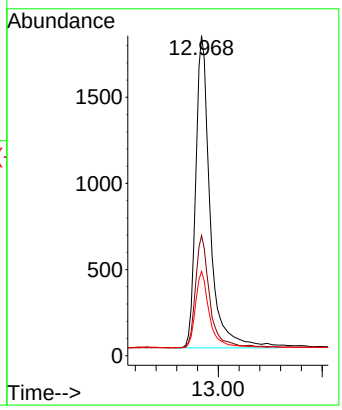


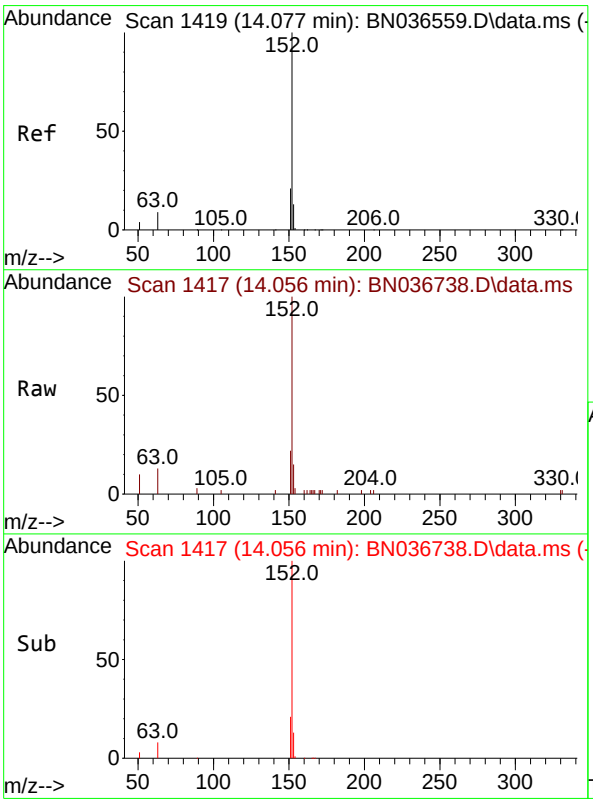
#15
2-Fluorobiphenyl
Concen: 0.346 ng
RT: 12.968 min Scan# 1
Delta R.T. -0.020 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:172 Resp: 4725

Ion	Ratio	Lower	Upper
172	100		
171	37.6	29.5	44.3
170	26.3	20.2	30.4

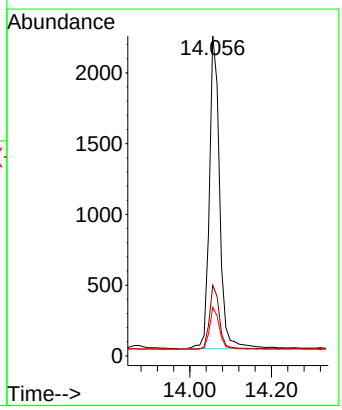


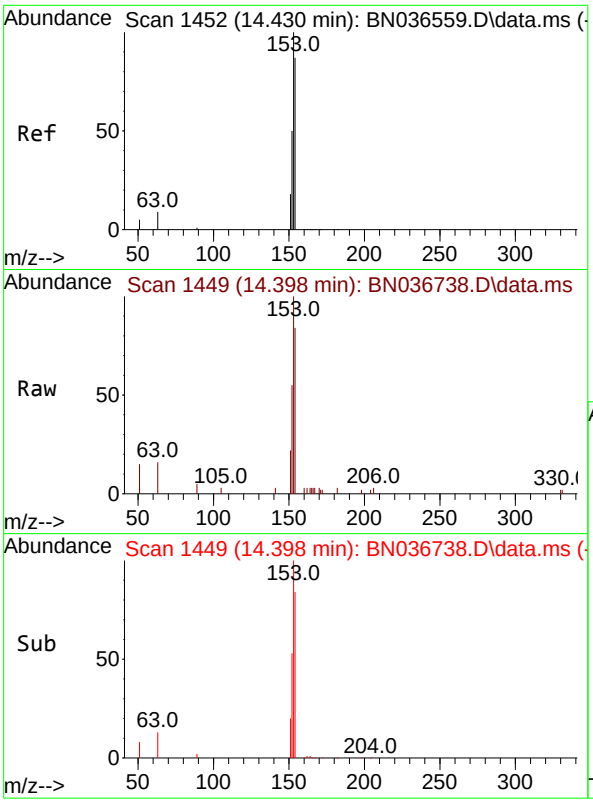


#16
Acenaphthylene
Concen: 0.348 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.021 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:152 Resp: 3861

Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.2	24.4
153	13.1	10.6	15.8



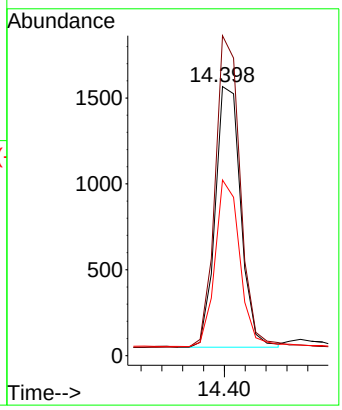


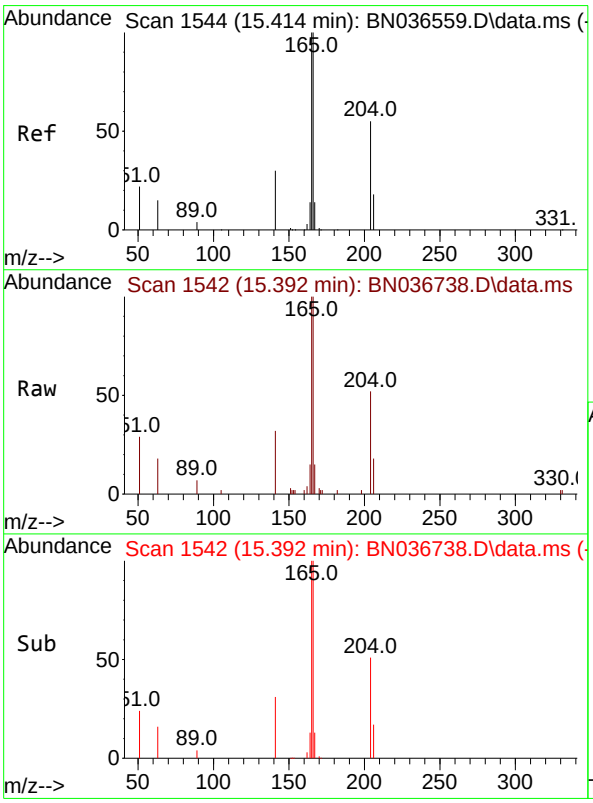
#17
Acenaphthene
Concen: 0.356 ng
RT: 14.398 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:154 Resp: 2582

Ion	Ratio	Lower	Upper
154	100		
153	119.8	94.1	141.1
152	62.5	49.8	74.6

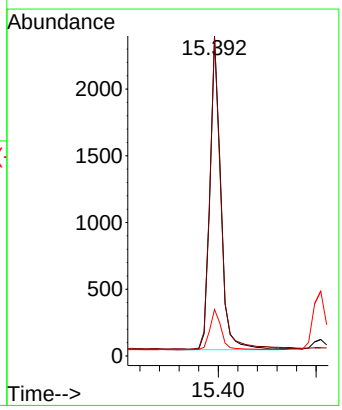


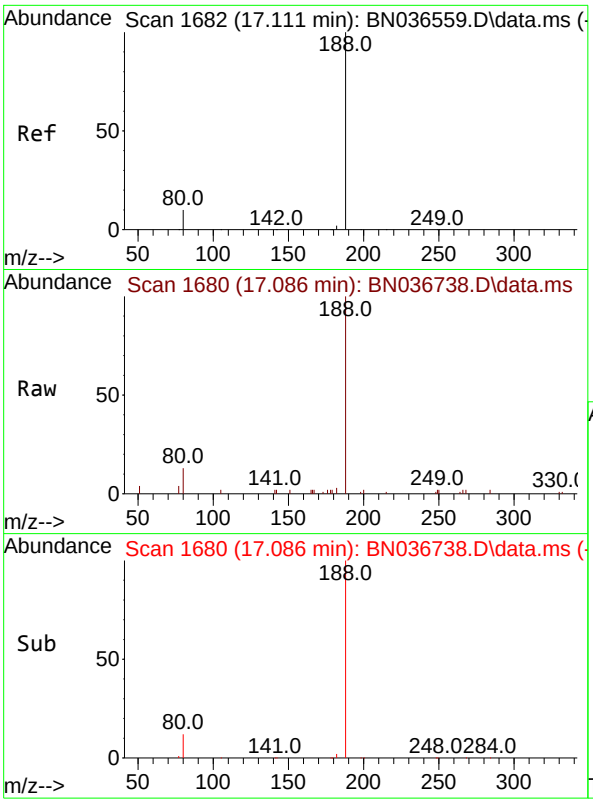


#18
Fluorene
Concen: 0.370 ng
RT: 15.392 min Scan# 1542
Delta R.T. -0.021 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:166 Resp: 3631

Ion	Ratio	Lower	Upper
166	100		
165	100.9	79.8	119.8
167	13.7	10.6	15.8



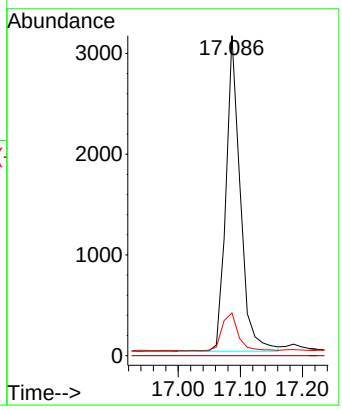


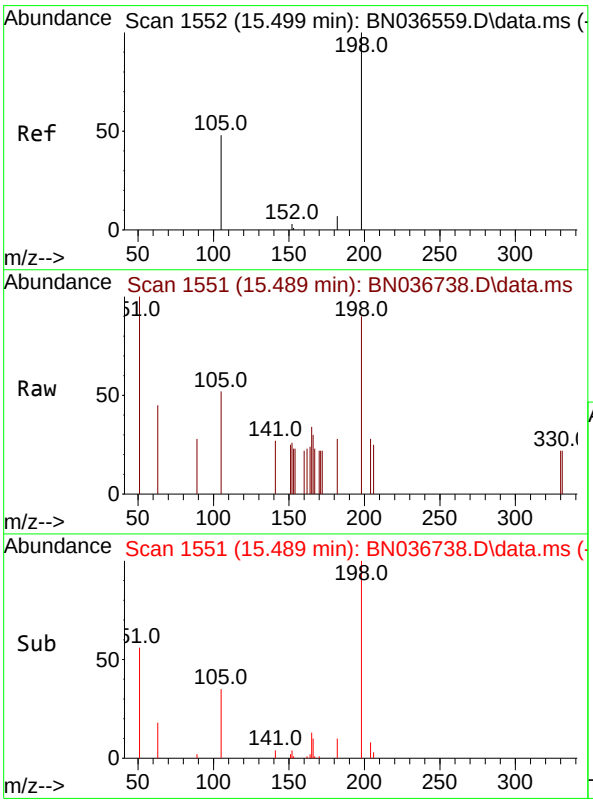
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:188 Resp: 4989

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	13.4	8.8	13.2#

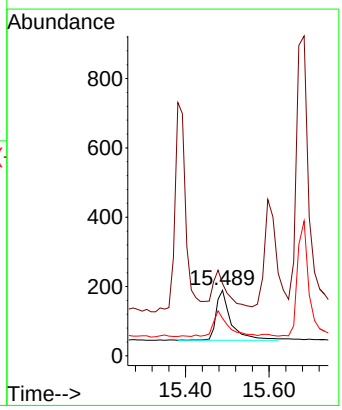


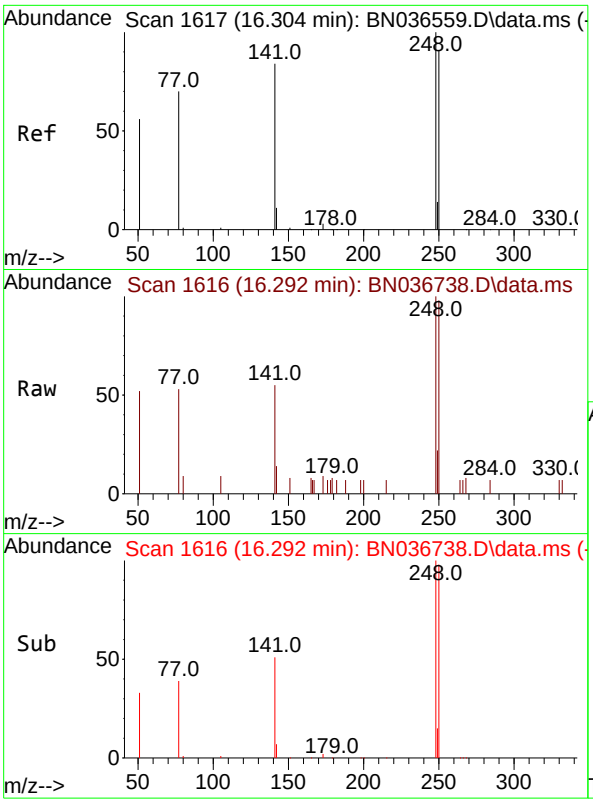


#20
4,6-Dinitro-2-methylphenol
Concen: 0.436 ng
RT: 15.489 min Scan# 1551
Delta R.T. -0.010 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:198 Resp: 370

Ion	Ratio	Lower	Upper
198	100		
51	110.6	107.9	161.9
105	57.1	56.2	84.2



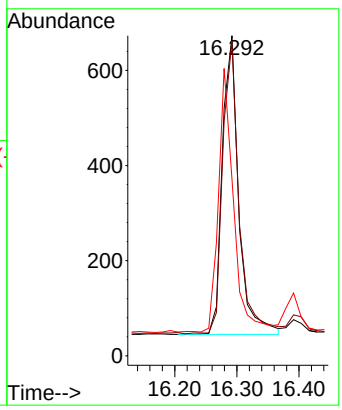


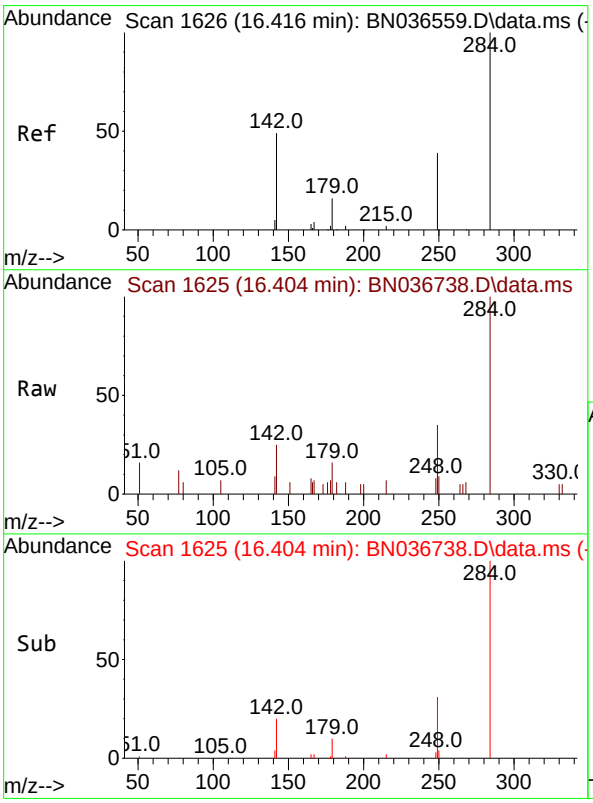
#21
4-Bromophenyl-phenylether
Concen: 0.367 ng
RT: 16.292 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:248 Resp: 1147

Ion	Ratio	Lower	Upper
248	100		
250	98.4	73.0	109.6
141	55.3	68.6	103.0#

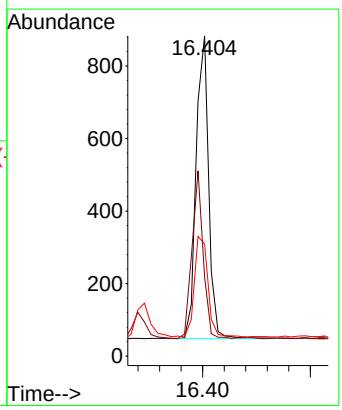


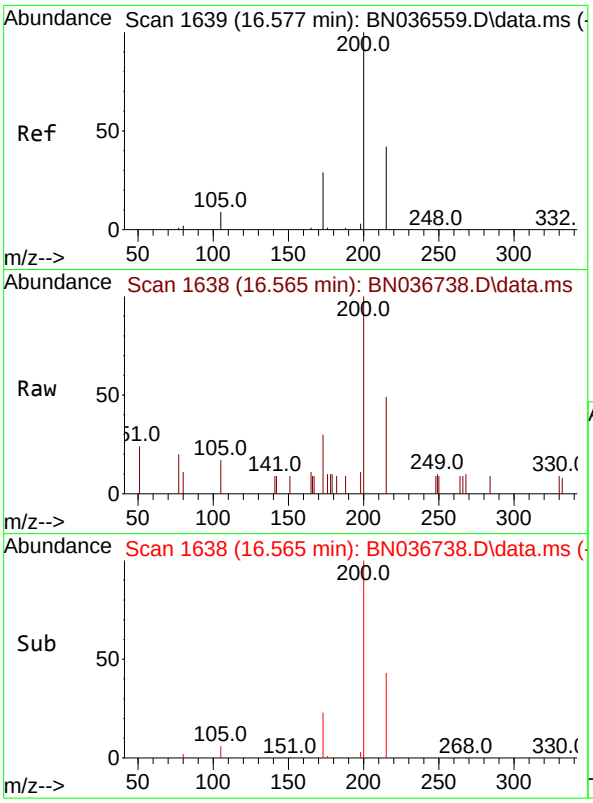


#22
Hexachlorobenzene
Concen: 0.360 ng
RT: 16.404 min Scan# 1625
Delta R.T. -0.012 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:284 Resp: 1358

Ion	Ratio	Lower	Upper
284	100		
142	48.9	37.0	55.4
249	36.3	28.1	42.1



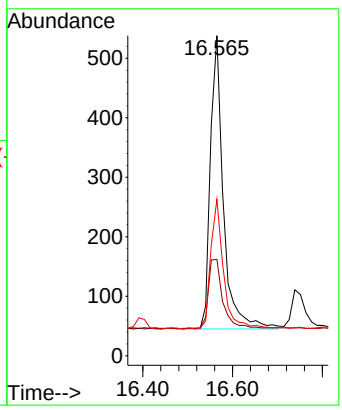


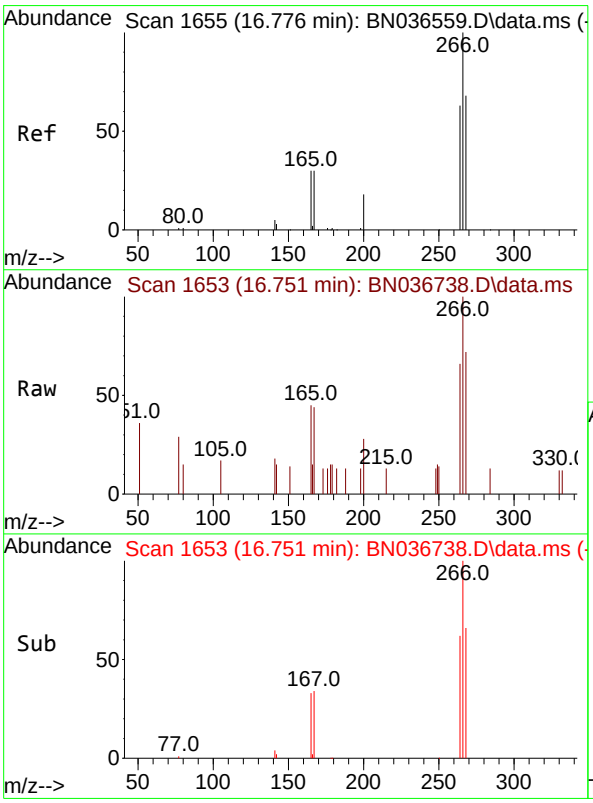
#23
Atrazine
Concen: 0.395 ng
RT: 16.565 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:200 Resp: 991

Ion	Ratio	Lower	Upper
200	100		
173	30.1	27.3	40.9
215	48.9	36.8	55.2

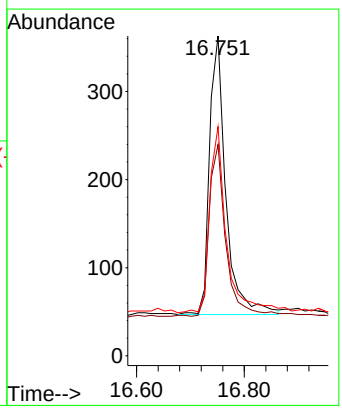


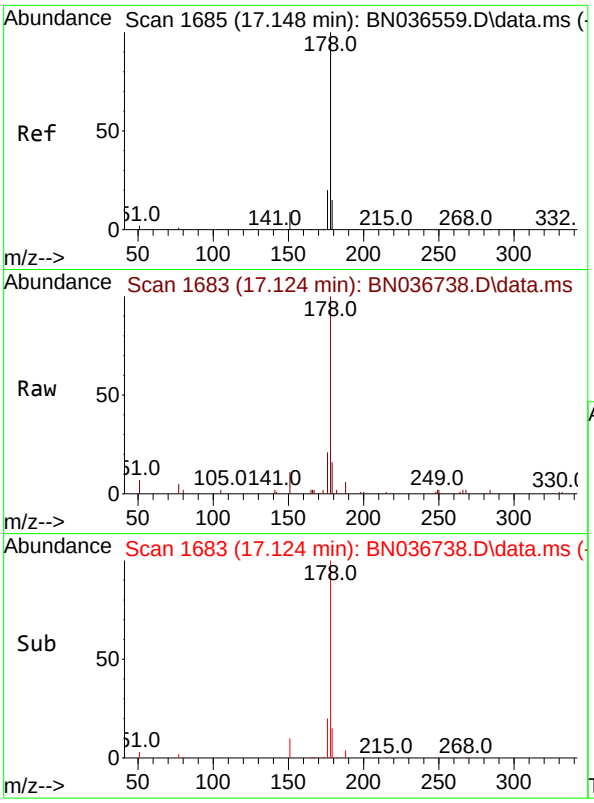


#24
Pentachlorophenol
Concen: 0.385 ng
RT: 16.751 min Scan# 1653
Delta R.T. -0.025 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:266 Resp: 662

Ion	Ratio	Lower	Upper
266	100		
264	63.6	49.6	74.4
268	69.5	50.9	76.3



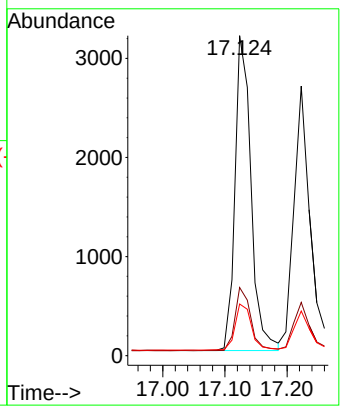


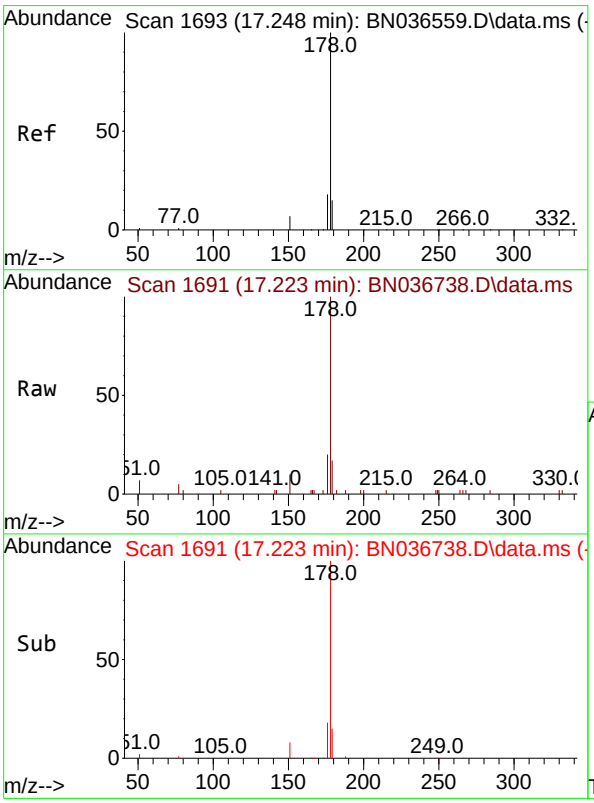
#25
Phenanthrene
Concen: 0.381 ng
RT: 17.124 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:178 Resp: 5704

Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.9	23.9
179	15.1	12.2	18.4

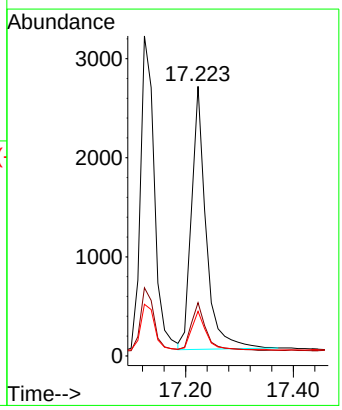


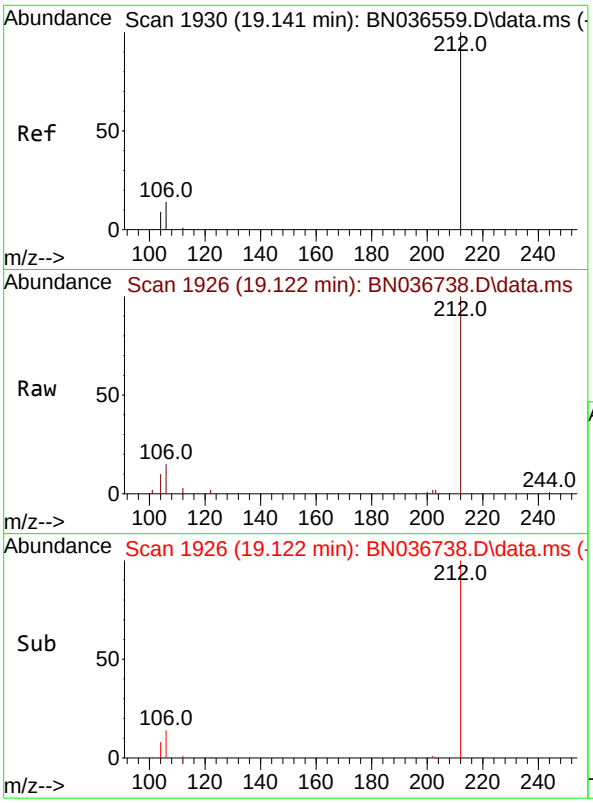


#26
Anthracene
Concen: 0.369 ng
RT: 17.223 min Scan# 1691
Delta R.T. -0.025 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:178 Resp: 4989

Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.4	23.2
179	15.2	12.6	18.8



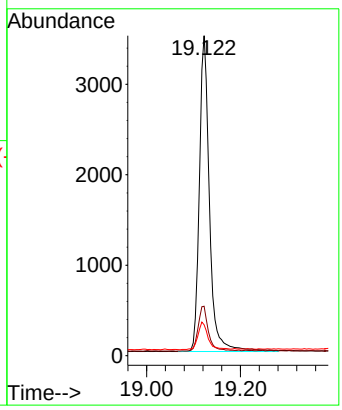


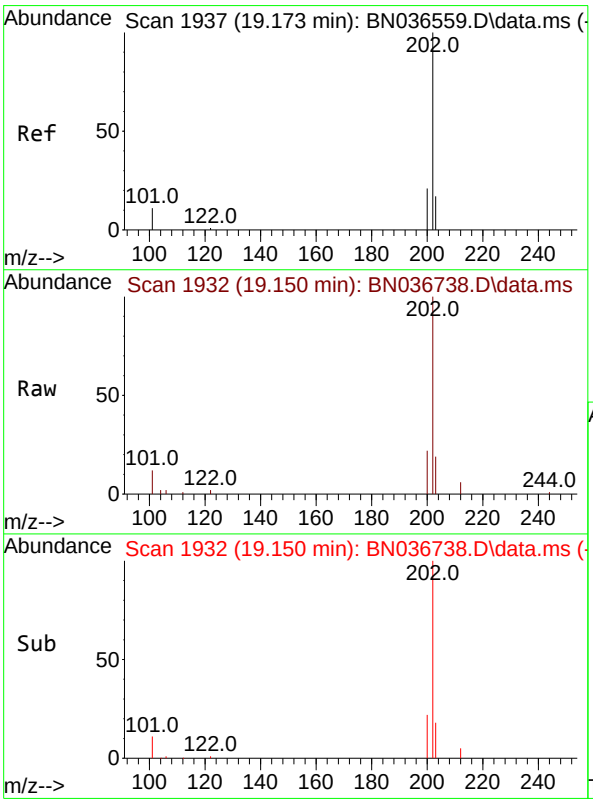
#27
Fluoranthene-d10
Concen: 0.408 ng
RT: 19.122 min Scan# 1
Delta R.T. -0.019 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:212 Resp: 5220

Ion	Ratio	Lower	Upper
212	100		
106	14.4	11.8	17.6
104	8.9	7.3	10.9

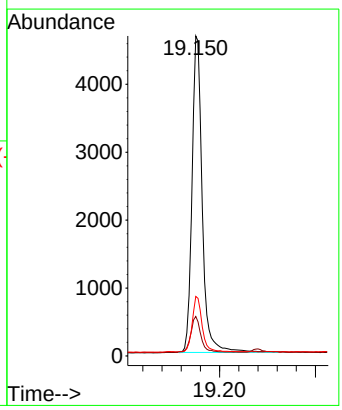


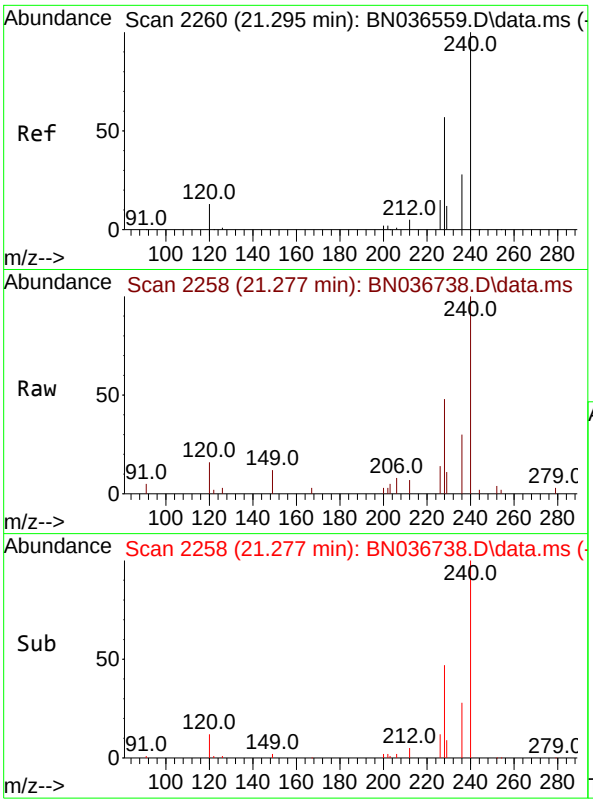


#28
Fluoranthene
Concen: 0.414 ng
RT: 19.150 min Scan# 1932
Delta R.T. -0.023 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:202 Resp: 6959

Ion	Ratio	Lower	Upper
202	100		
101	11.2	9.4	14.0
203	17.1	13.5	20.3



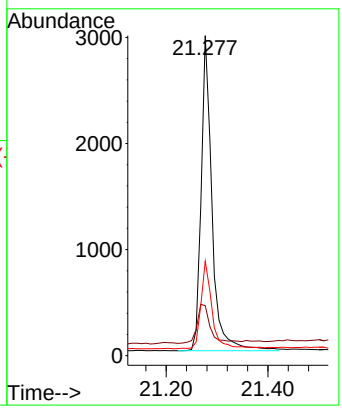


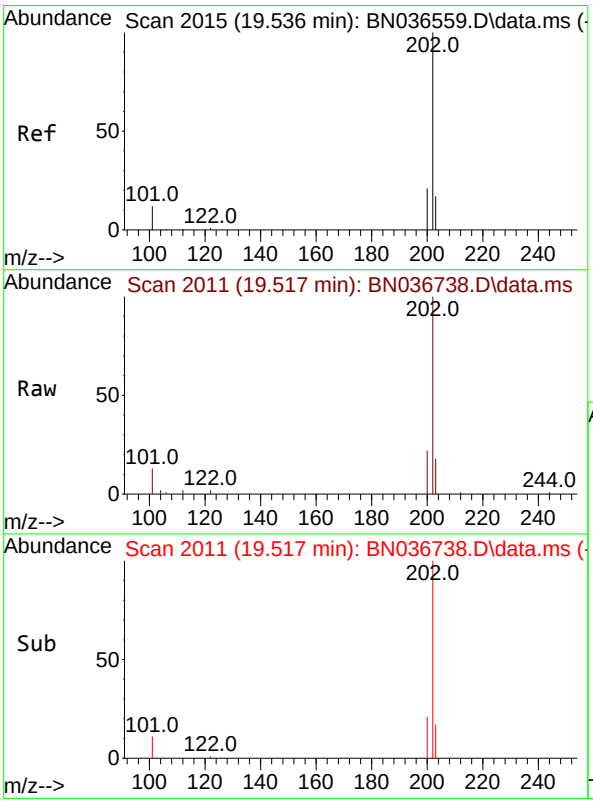
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:240 Resp: 4385

Ion	Ratio	Lower	Upper
240	100		
120	15.7	14.6	22.0
236	29.5	24.1	36.1

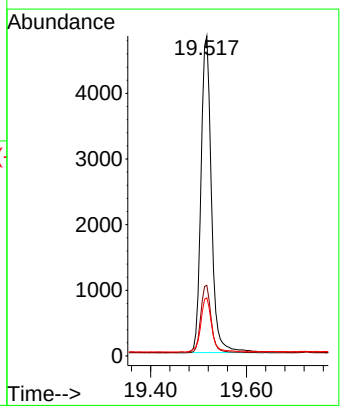


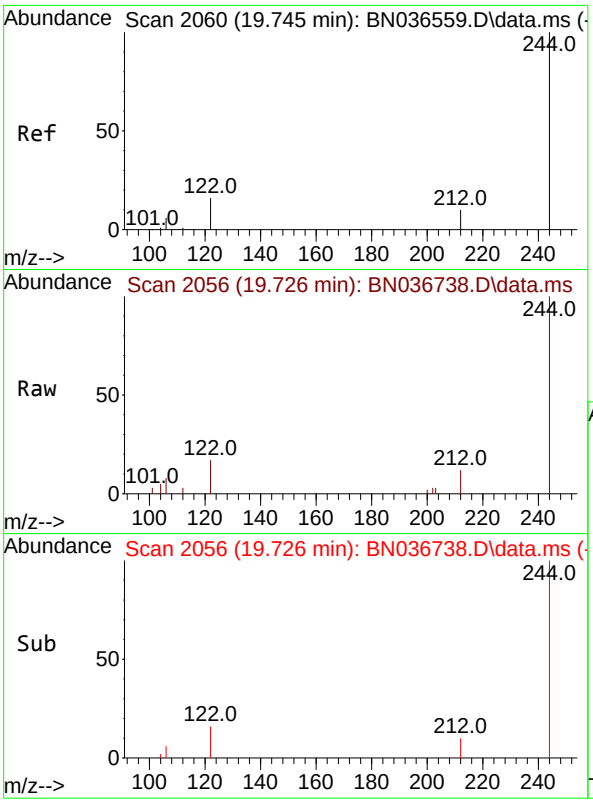


#30
Pyrene
Concen: 0.341 ng
RT: 19.517 min Scan# 2011
Delta R.T. -0.019 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:202 Resp: 7305

Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.1	25.7
203	17.8	14.1	21.1



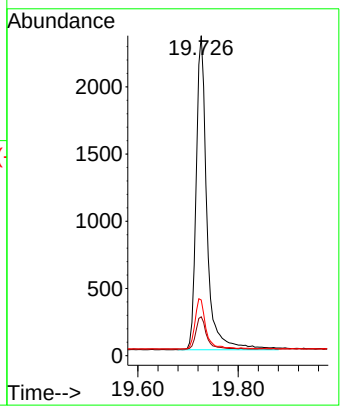


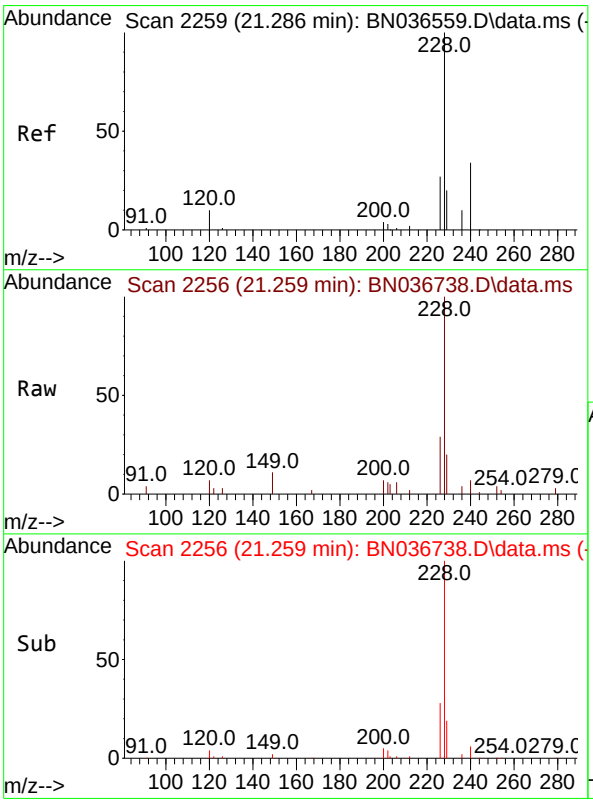
#31
Terphenyl-d14
Concen: 0.330 ng
RT: 19.726 min Scan# 2
Delta R.T. -0.019 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:244 Resp: 3465

Ion	Ratio	Lower	Upper
244	100		
212	12.2	9.6	14.4
122	17.4	13.9	20.9

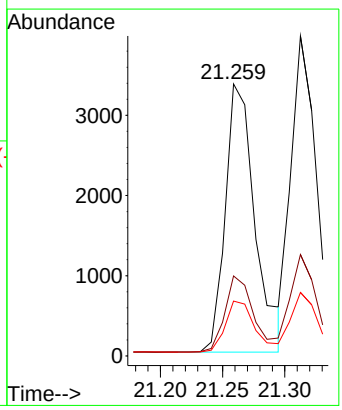


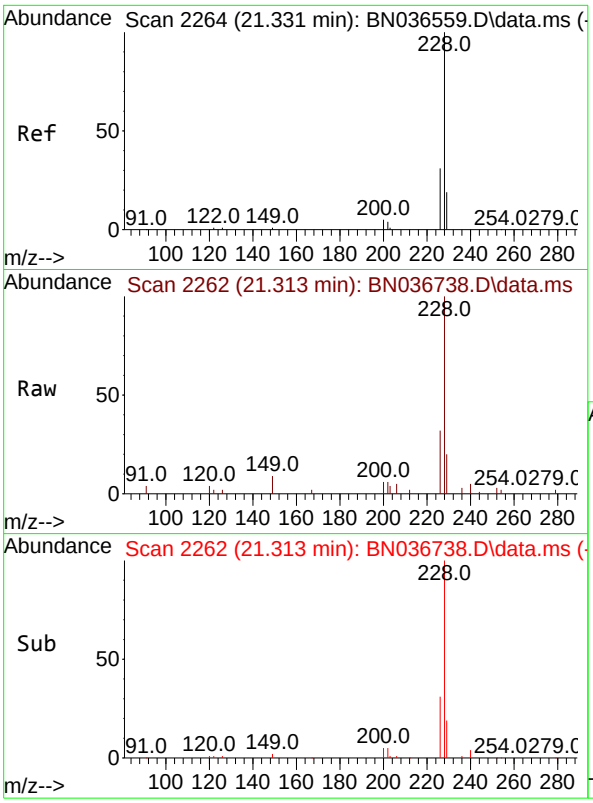


#32
Benzo(a)anthracene
Concen: 0.365 ng
RT: 21.259 min Scan# 2256
Delta R.T. -0.027 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:228 Resp: 5558

Ion	Ratio	Lower	Upper
228	100		
226	29.4	22.5	33.7
229	20.2	16.6	25.0



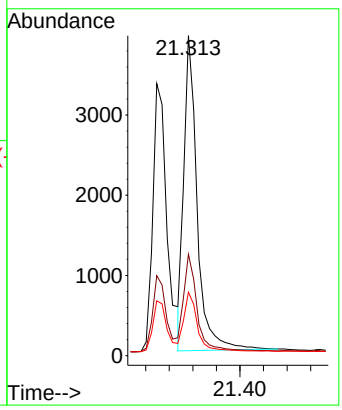


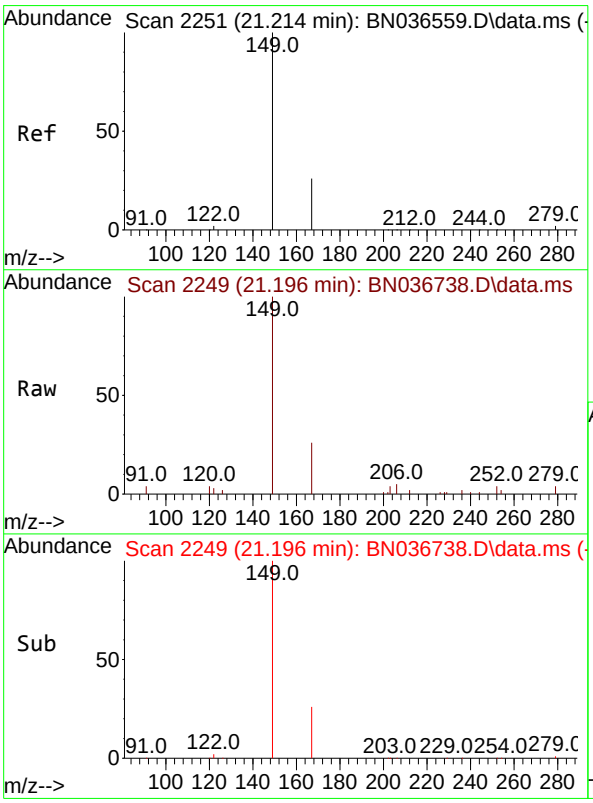
#33
Chrysene
Concen: 0.370 ng
RT: 21.313 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:228 Resp: 6163

Ion	Ratio	Lower	Upper
228	100		
226	31.7	25.3	37.9
229	19.8	15.8	23.8

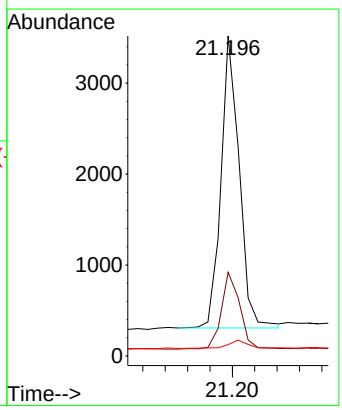


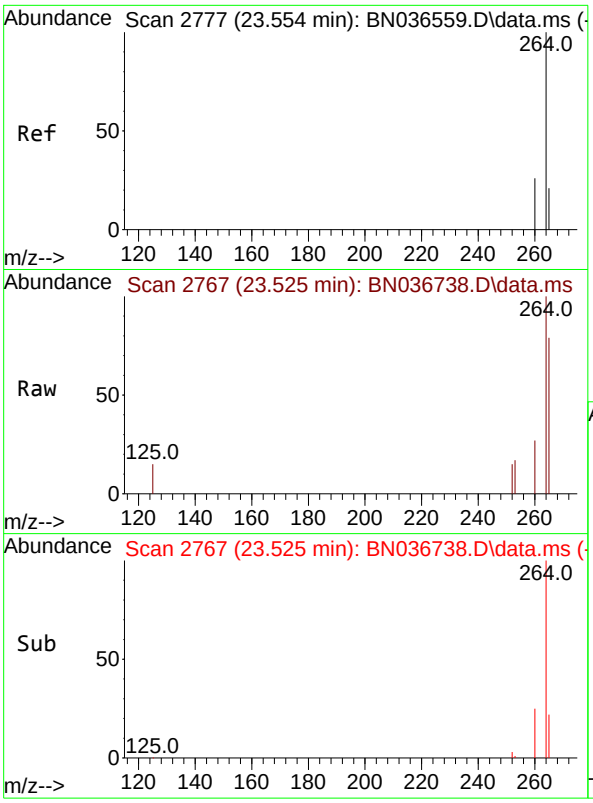


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.335 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:149 Resp: 3633

Ion	Ratio	Lower	Upper
149	100		
167	26.6	20.7	31.1
279	3.2	3.6	5.4#



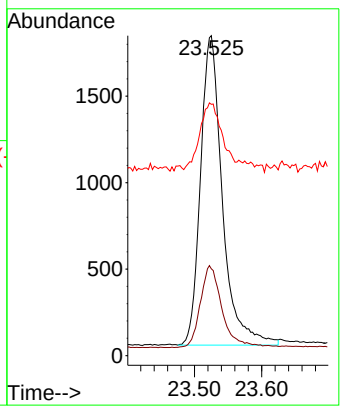


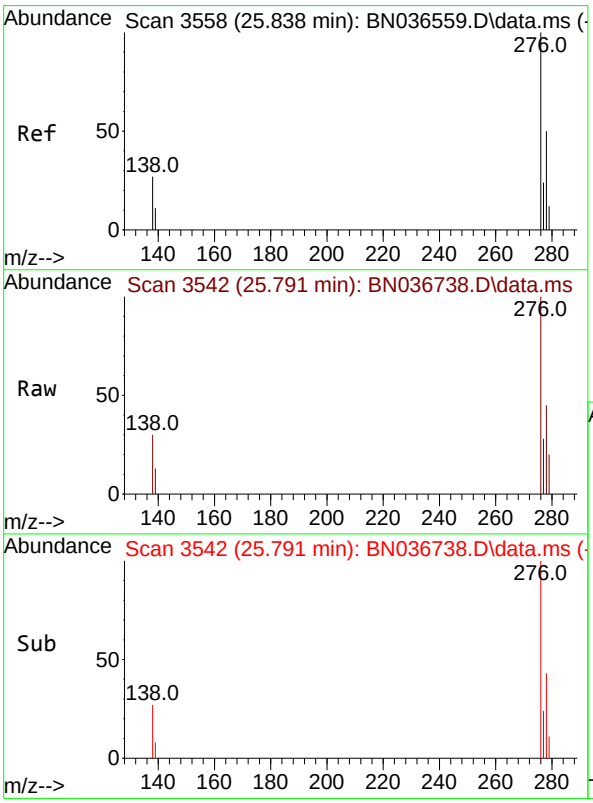
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.525 min Scan# 2
Delta R.T. -0.029 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:264 Resp: 4045

Ion	Ratio	Lower	Upper
264	100		
260	27.1	22.6	33.8
265	78.5	88.1	132.1#

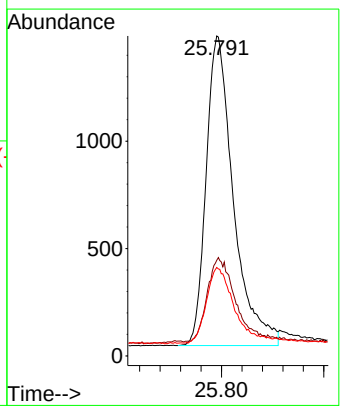


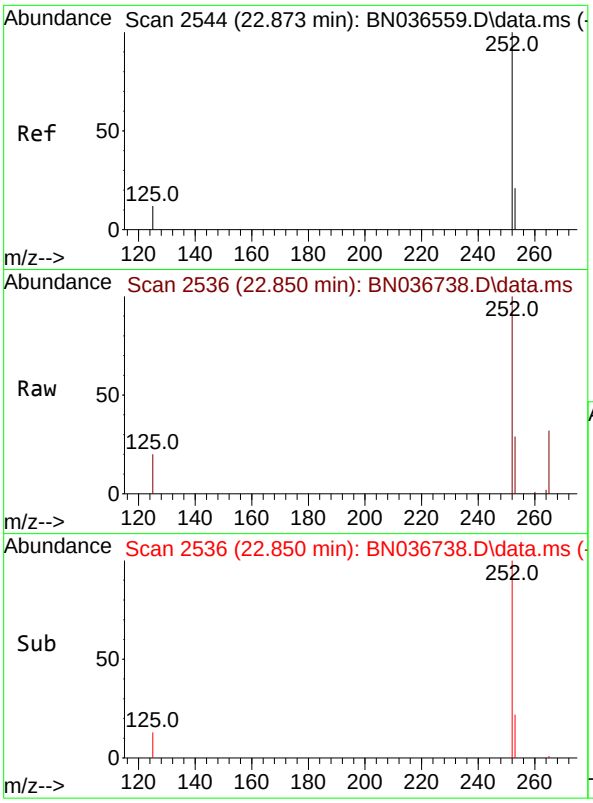


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.366 ng
RT: 25.791 min Scan# 3542
Delta R.T. -0.047 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:276 Resp: 5346

Ion	Ratio	Lower	Upper
276	100		
138	27.7	23.4	35.2
277	24.9	20.0	30.0



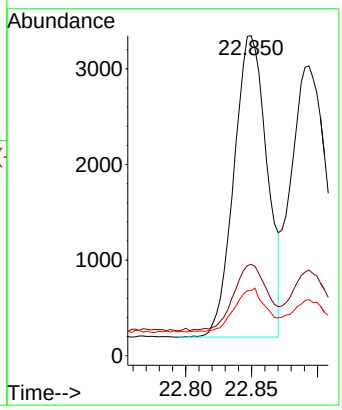


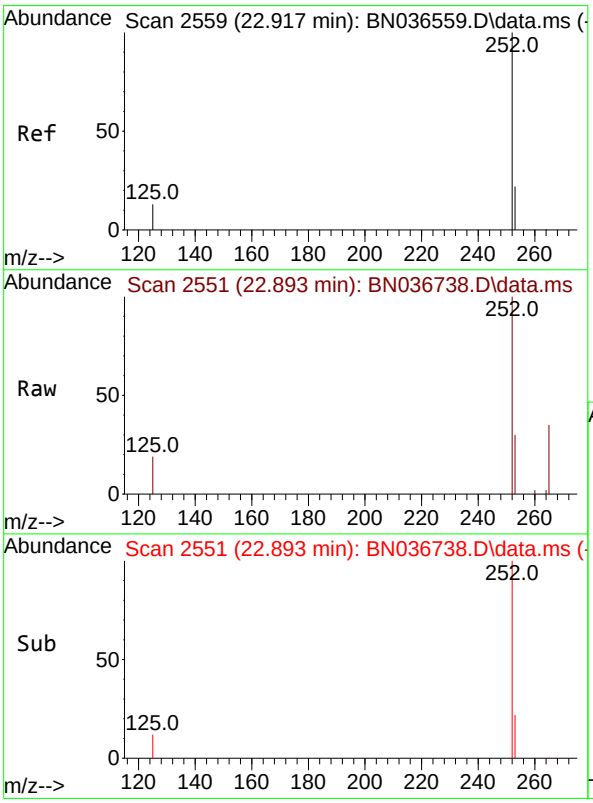
#37
Benzo(b)fluoranthene
Concen: 0.374 ng
RT: 22.850 min Scan# 2
Delta R.T. -0.023 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 5508

Ion	Ratio	Lower	Upper
252	100		
253	28.6	23.9	35.9
125	20.3	17.4	26.2

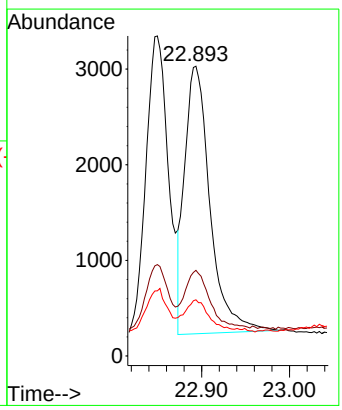


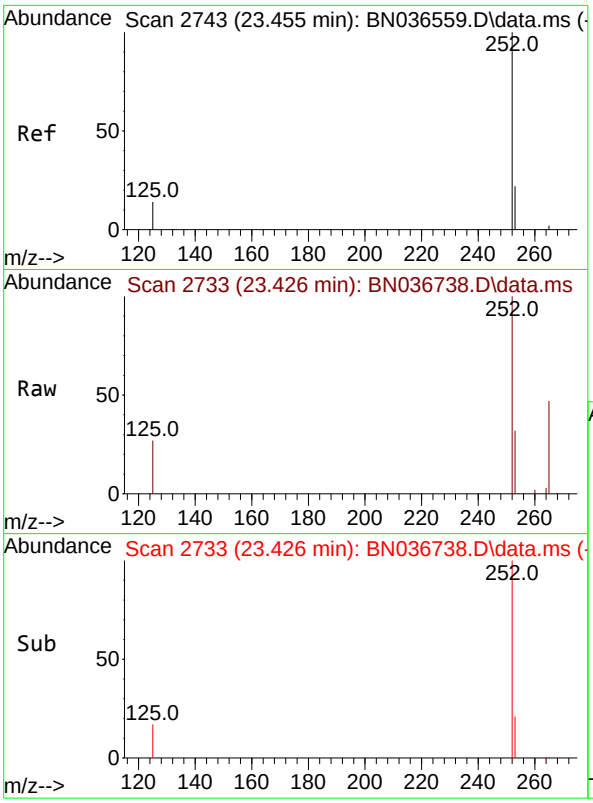


#38
Benzo(k)fluoranthene
Concen: 0.363 ng
RT: 22.893 min Scan# 2551
Delta R.T. -0.023 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:252 Resp: 5599

Ion	Ratio	Lower	Upper
252	100		
253	29.6	24.6	36.8
125	19.4	17.8	26.8



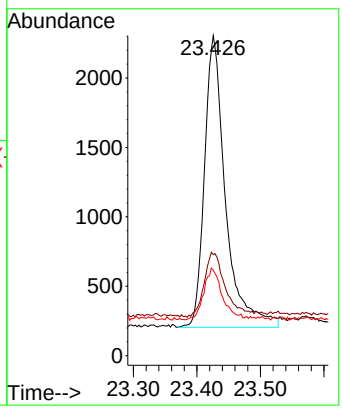


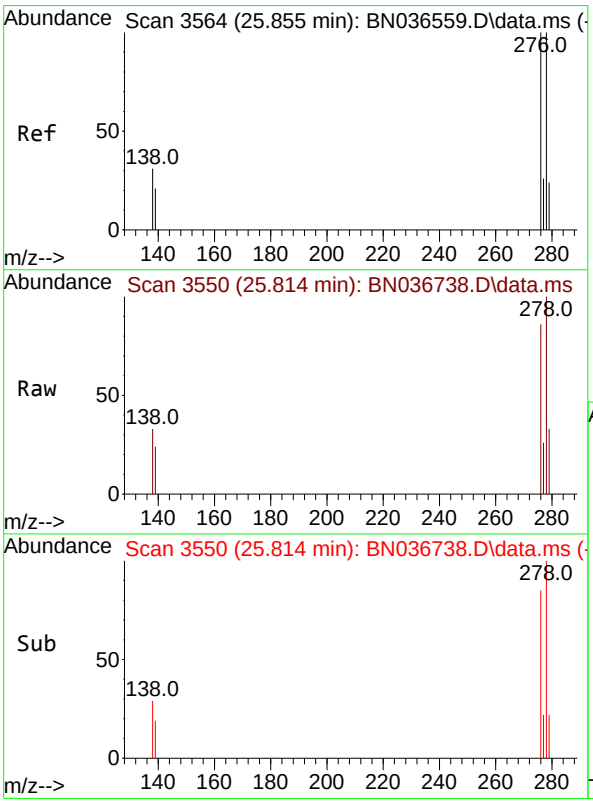
#39
Benzo(a)pyrene
Concen: 0.391 ng
RT: 23.426 min Scan# 2
Delta R.T. -0.029 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 4841

Ion	Ratio	Lower	Upper
252	100		
253	31.6	27.8	41.8
125	26.8	22.7	34.1

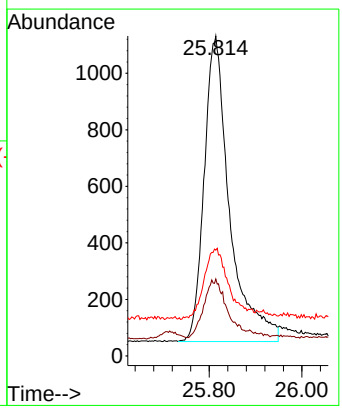


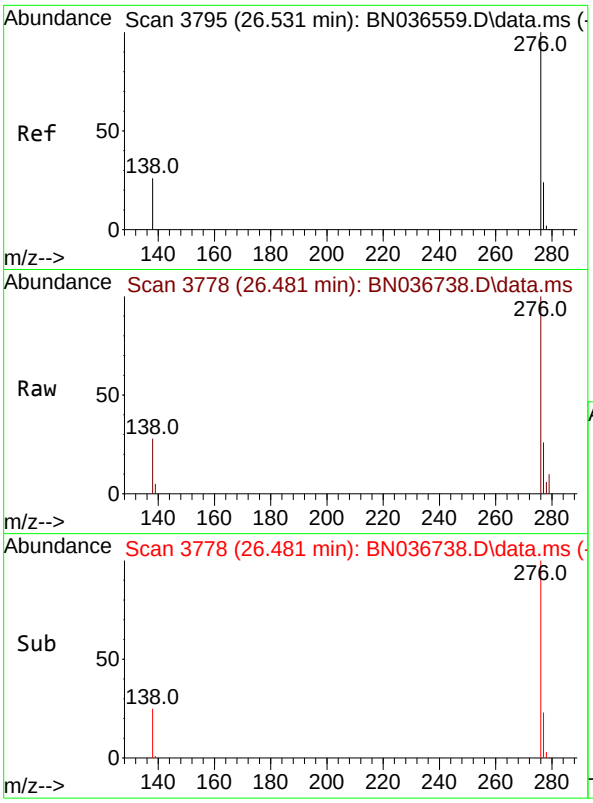


#40
Dibenzo(a,h)anthracene
Concen: 0.362 ng
RT: 25.814 min Scan# 3550
Delta R.T. -0.041 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:278 Resp: 4114

Ion	Ratio	Lower	Upper
278	100		
139	24.0	20.8	31.2
279	33.0	28.8	43.2



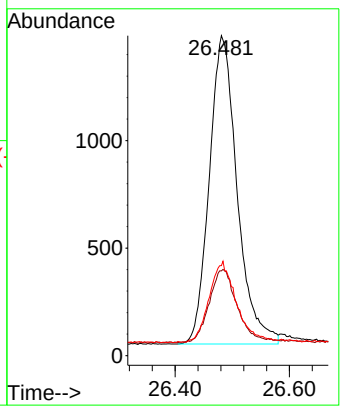


#41
Benzo(g,h,i)perylene
Concen: 0.374 ng
RT: 26.481 min Scan# 3
Delta R.T. -0.050 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:276 Resp: 4859

Ion	Ratio	Lower	Upper
276	100		
277	26.5	22.2	33.4
138	28.2	24.1	36.1



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036755.D
Acq On : 28 Mar 2025 01:52
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Mar 28 05:36:33 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

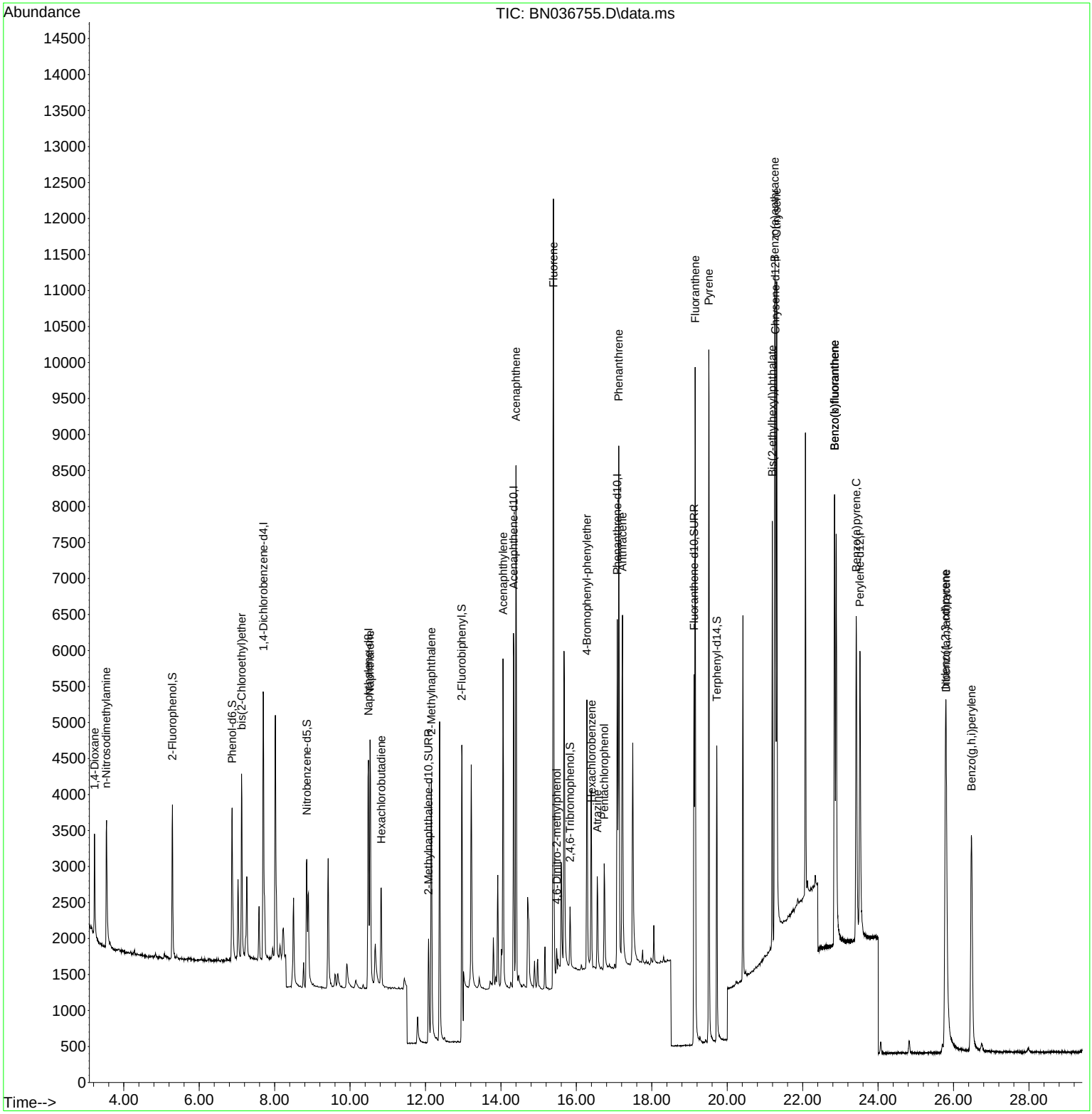
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.703	152	1902	0.400	ng		-0.02
7) Naphthalene-d8	10.487	136	4724	0.400	ng		#-0.02
13) Acenaphthene-d10	14.334	164	3073	0.400	ng		-0.03
19) Phenanthrene-d10	17.086	188	6417	0.400	ng		-0.02
29) Chrysene-d12	21.277	240	5861	0.400	ng		#-0.02
35) Perylene-d12	23.519	264	5647	0.400	ng		#-0.03
System Monitoring Compounds							
4) 2-Fluorophenol	5.291	112	1596	0.360	ng		-0.02
5) Phenol-d6	6.872	99	1912	0.349	ng		-0.03
8) Nitrobenzene-d5	8.854	82	1688	0.328	ng		-0.02
11) 2-Methylnaphthalene-d10	12.080	152	2439	0.347	ng		-0.03
14) 2,4,6-Tribromophenol	15.833	330	523	0.375	ng		-0.02
15) 2-Fluorobiphenyl	12.963	172	5695	0.319	ng		-0.03
27) Fluoranthene-d10	19.122	212	6435	0.391	ng		-0.02
31) Terphenyl-d14	19.722	244	4447	0.317	ng		-0.02
Target Compounds							Qvalue
2) 1,4-Dioxane	3.225	88	882	0.418	ng		97
3) n-Nitrosodimethylamine	3.536	42	1688	0.395	ng		93
6) bis(2-Chloroethyl)ether	7.125	93	1966	0.347	ng		99
9) Naphthalene	10.530	128	4933	0.355	ng		99
10) Hexachlorobutadiene	10.829	225	1194	0.365	ng	#	100
12) 2-Methylnaphthalene	12.157	142	3191	0.361	ng		98
16) Acenaphthylene	14.056	152	5054	0.349	ng		100
17) Acenaphthene	14.398	154	3383	0.356	ng		99
18) Fluorene	15.393	166	4678	0.364	ng		100
20) 4,6-Dinitro-2-methylph...	15.478	198	489	0.444	ng		88
21) 4-Bromophenyl-phenylether	16.280	248	1456	0.362	ng		93
22) Hexachlorobenzene	16.404	284	1743	0.359	ng		98
23) Atrazine	16.553	200	1231	0.382	ng		96
24) Pentachlorophenol	16.739	266	837	0.378	ng		96
25) Phenanthrene	17.124	178	7451	0.387	ng		100
26) Anthracene	17.223	178	6503	0.374	ng		99
28) Fluoranthene	19.150	202	8702	0.402	ng		99
30) Pyrene	19.513	202	9138	0.319	ng		100
32) Benzo(a)anthracene	21.259	228	7209	0.354	ng		99
33) Chrysene	21.313	228	8619	0.387	ng		99
34) Bis(2-ethylhexyl)phtha...	21.196	149	5036	0.347	ng	#	99
36) Indeno(1,2,3-cd)pyrene	25.785	276	7554	0.371	ng		98
37) Benzo(b)fluoranthene	22.847	252	7851	0.382	ng		97
38) Benzo(k)fluoranthene	22.847	252	7851	0.364	ng		95
39) Benzo(a)pyrene	23.420	252	6760	0.391	ng		95
40) Dibenzo(a,h)anthracene	25.806	278	5864	0.370	ng		90
41) Benzo(g,h,i)perylene	26.475	276	6596	0.363	ng		96

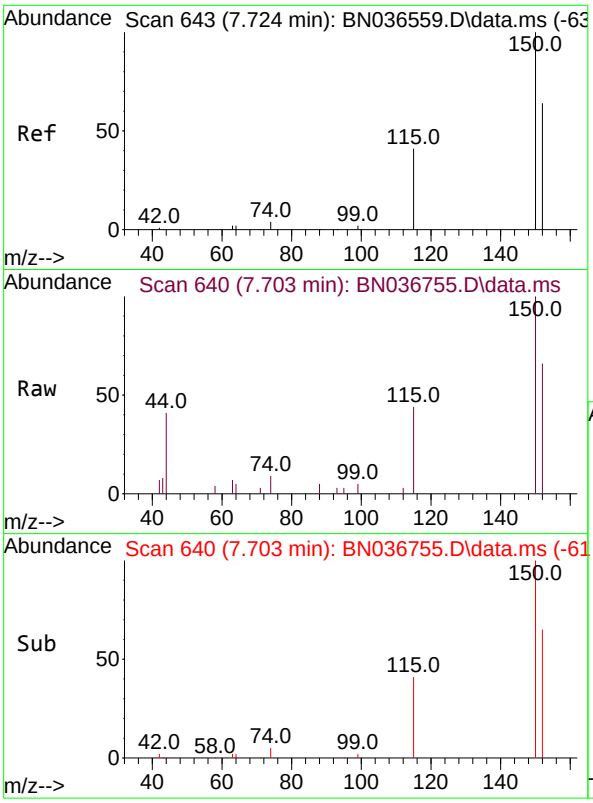
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036755.D
Acq On : 28 Mar 2025 01:52
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Mar 28 05:36:33 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



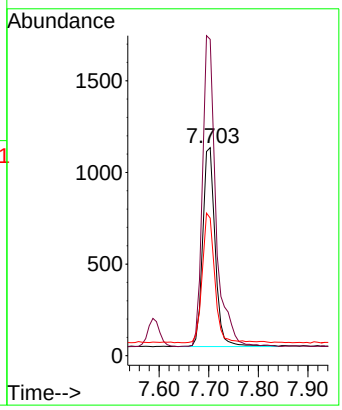


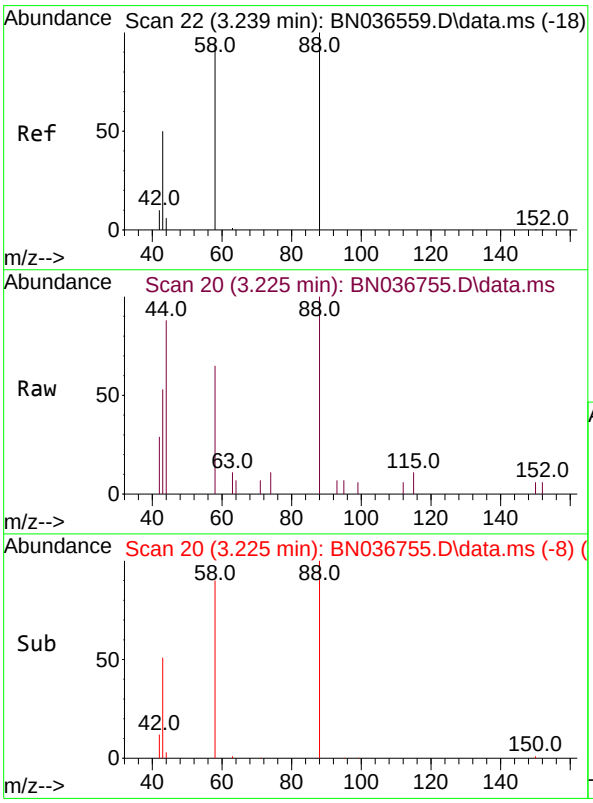
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.703 min Scan# 64
Delta R.T. -0.021 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 1902

Ion	Ratio	Lower	Upper
152	100		
150	152.1	123.7	185.5
115	66.2	54.3	81.5

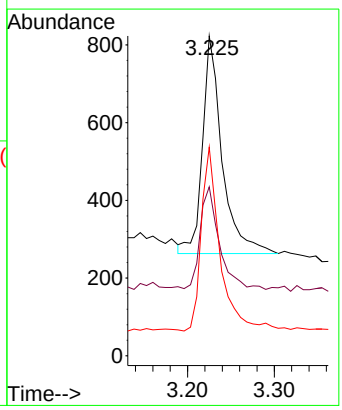


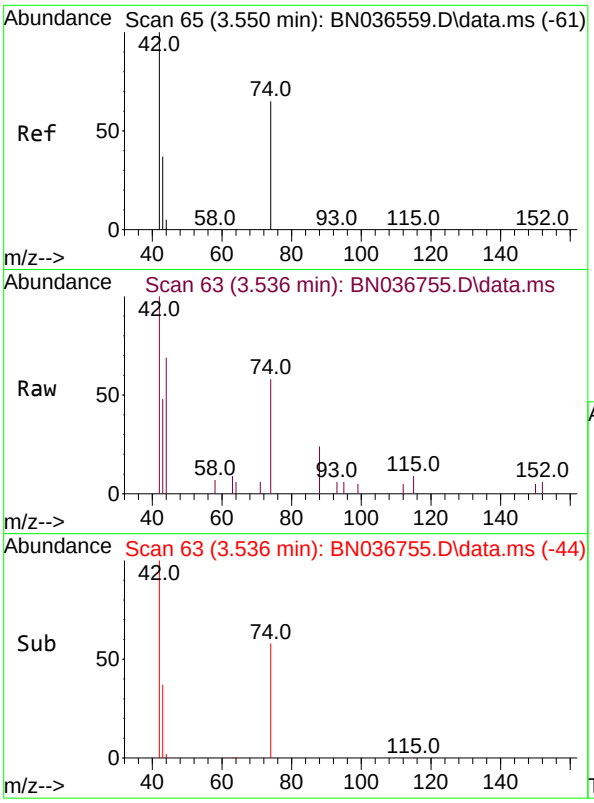


#2
1,4-Dioxane
Concen: 0.418 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion: 88 Resp: 882

Ion	Ratio	Lower	Upper
88	100		
43	45.9	37.8	56.8
58	81.1	67.4	101.2



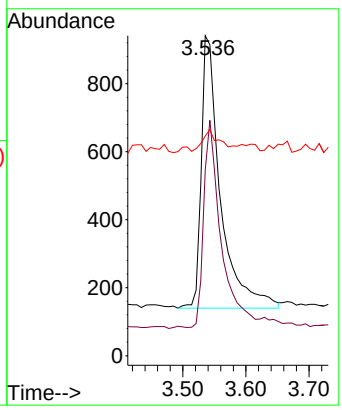


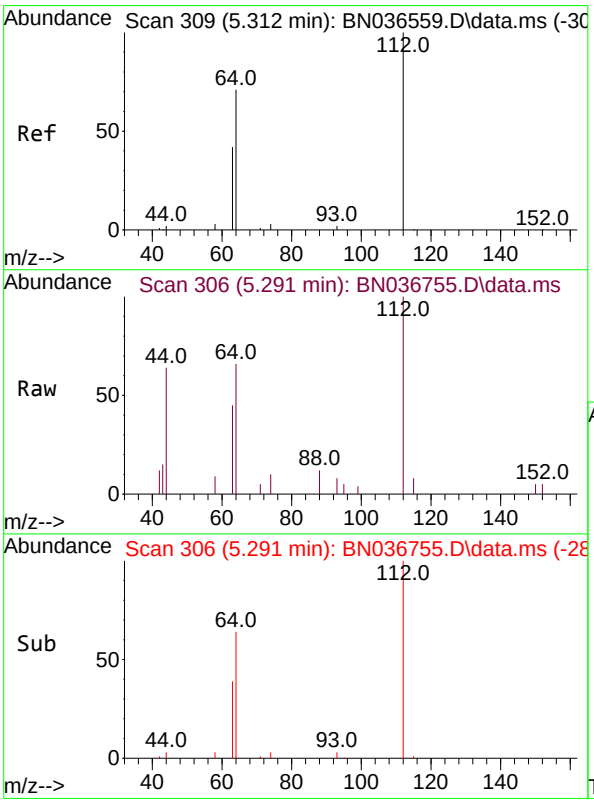
#3
n-Nitrosodimethylamine
Concen: 0.395 ng
RT: 3.536 min Scan# 6
Delta R.T. -0.014 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 42 Resp: 1688

Ion	Ratio	Lower	Upper
42	100		
74	68.9	60.6	90.8
44	7.1	6.3	9.5

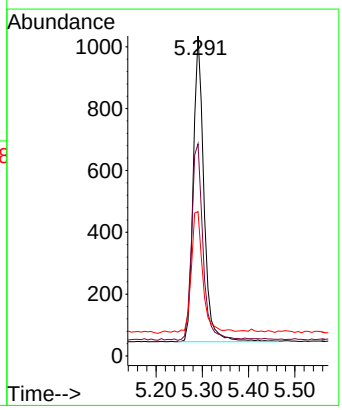


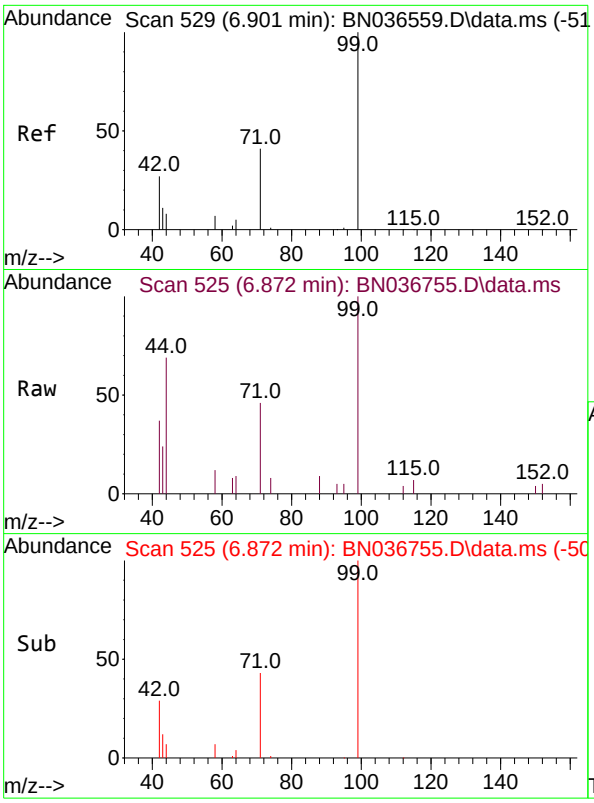


#4
2-Fluorophenol
Concen: 0.360 ng
RT: 5.291 min Scan# 306
Delta R.T. -0.022 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:112 Resp: 1596

Ion	Ratio	Lower	Upper
112	100		
64	68.2	53.1	79.7
63	41.4	31.8	47.8



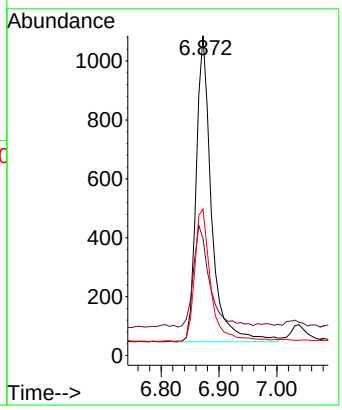


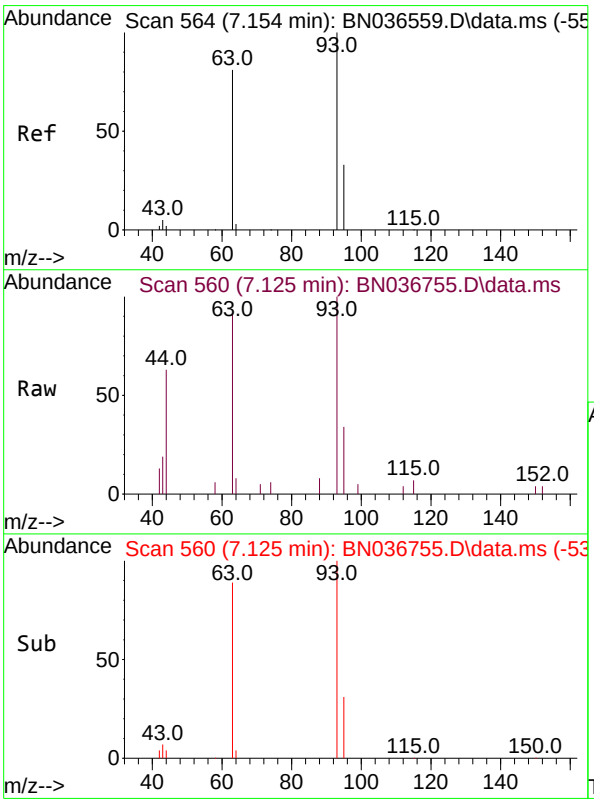
#5
Phenol-d6
Concen: 0.349 ng
RT: 6.872 min Scan# 5
Delta R.T. -0.029 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 99 Resp: 1912

Ion	Ratio	Lower	Upper
99	100		
42	35.4	26.5	39.7
71	45.3	34.1	51.1

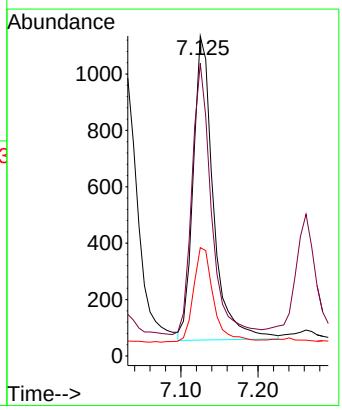


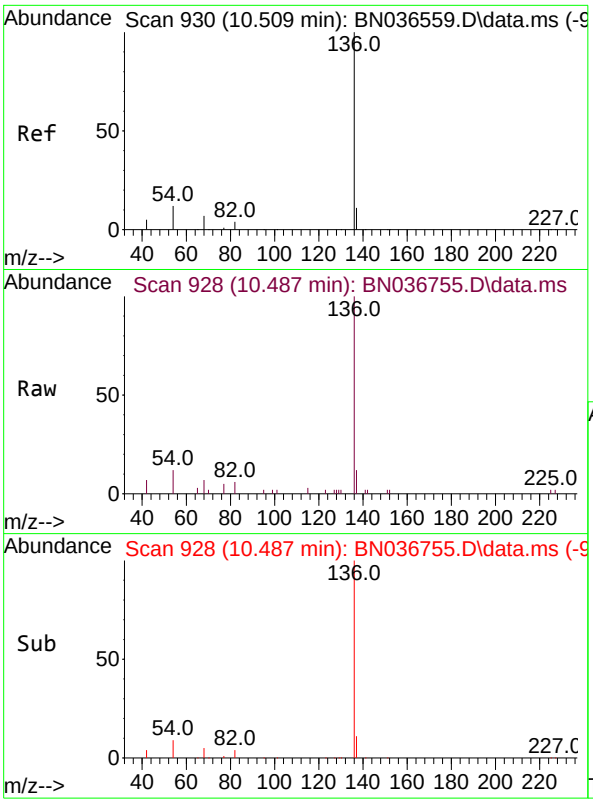


#6
bis(2-Chloroethyl)ether
Concen: 0.347 ng
RT: 7.125 min Scan# 560
Delta R.T. -0.029 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion: 93 Resp: 1966

Ion	Ratio	Lower	Upper
93	100		
63	85.6	67.7	101.5
95	31.0	25.6	38.4



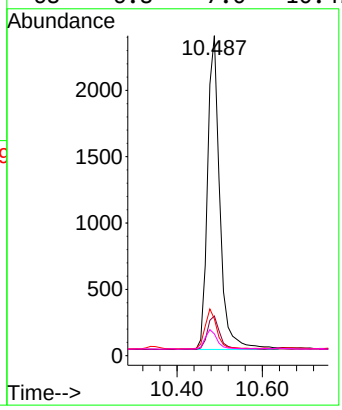


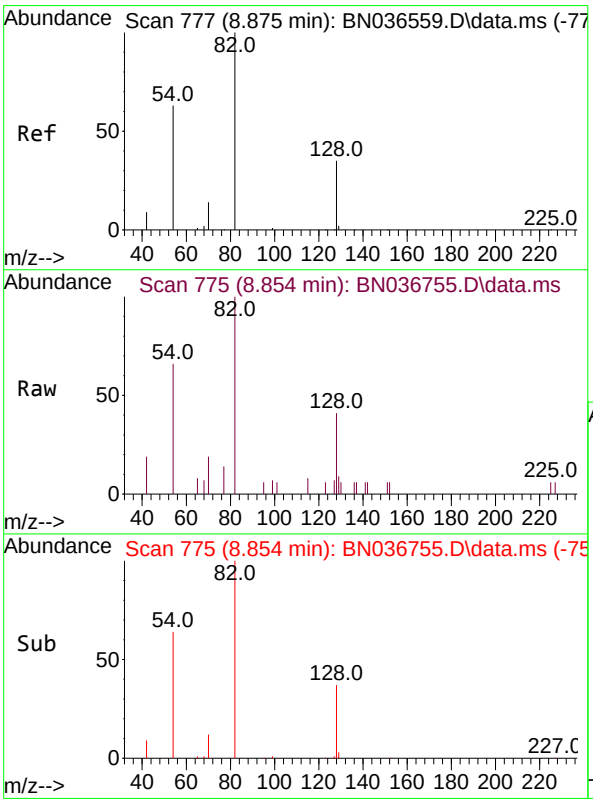
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.487 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:136 Resp: 4724

Ion	Ratio	Lower	Upper
136	100		
137	12.4	10.3	15.5
54	11.5	11.5	17.3
68	6.8	7.0	10.4#

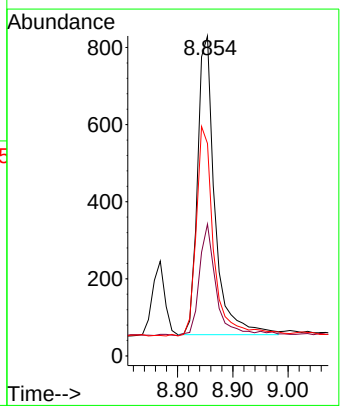


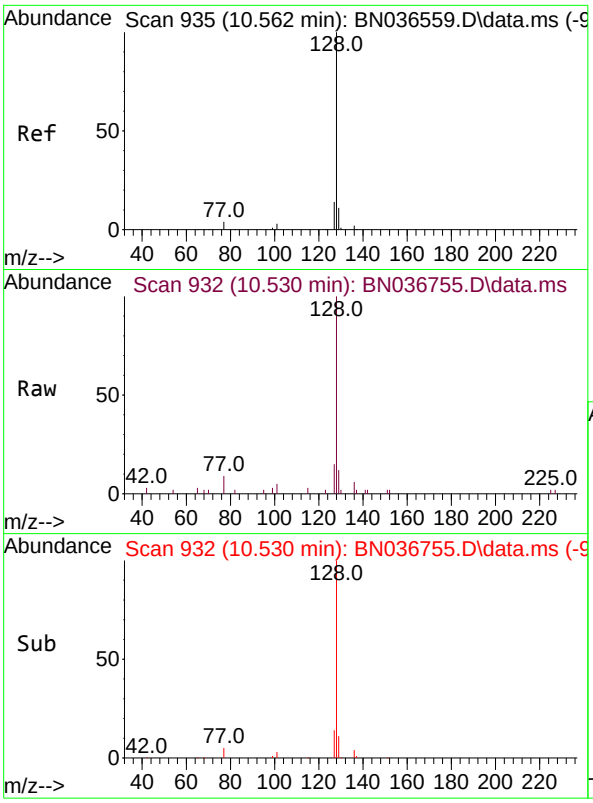


#8
Nitrobenzene-d5
Concen: 0.328 ng
RT: 8.854 min Scan# 775
Delta R.T. -0.021 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion: 82 Resp: 1688

Ion	Ratio	Lower	Upper
82	100		
128	41.2	30.6	45.8
54	66.4	52.2	78.4



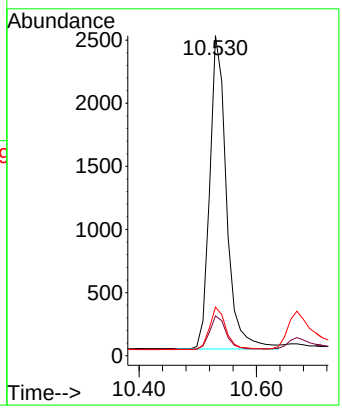


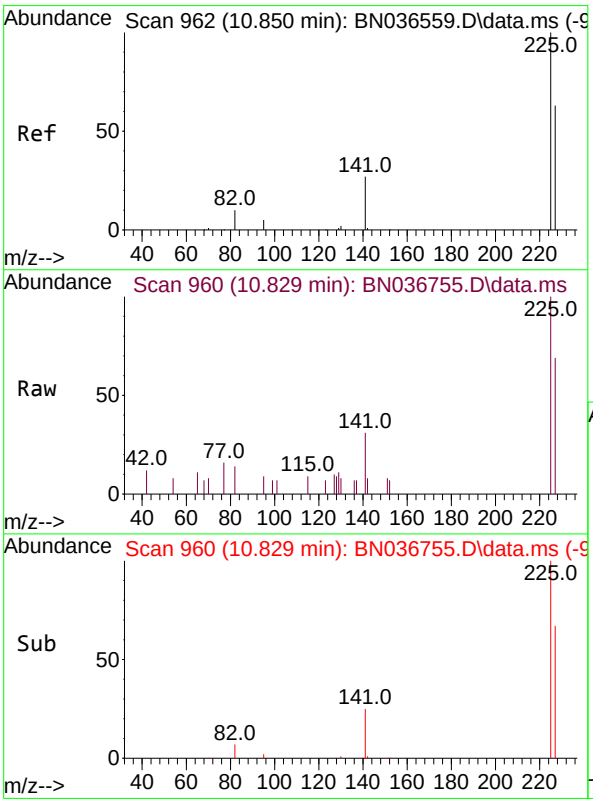
#9
Naphthalene
Concen: 0.355 ng
RT: 10.530 min Scan# 9
Delta R.T. -0.032 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:128 Resp: 4933

Ion	Ratio	Lower	Upper
128	100		
129	12.4	9.8	14.6
127	15.2	11.8	17.8

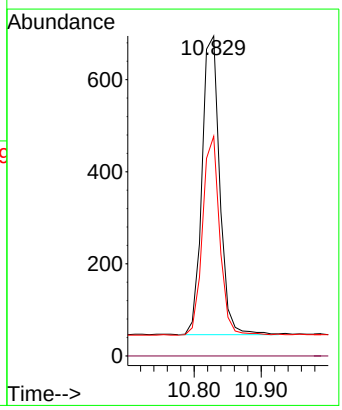


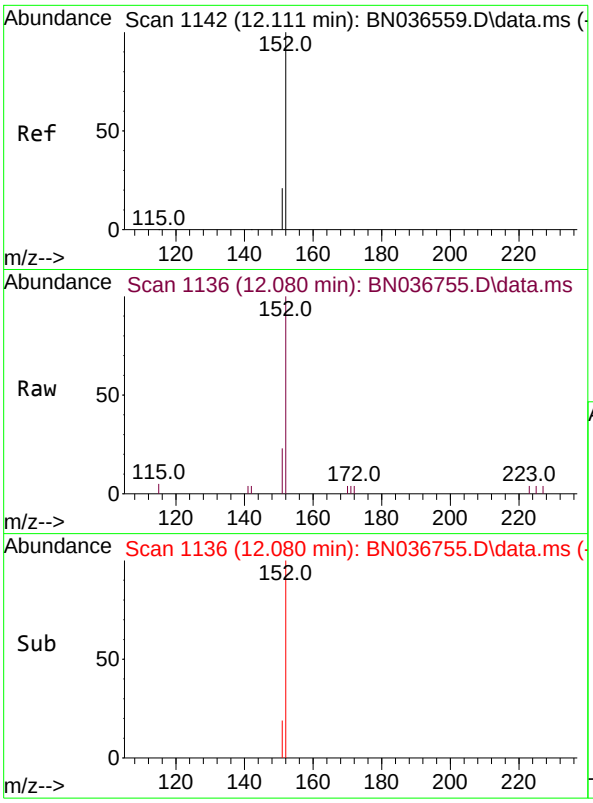


#10
Hexachlorobutadiene
Concen: 0.365 ng
RT: 10.829 min Scan# 960
Delta R.T. -0.021 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:225 Resp: 1194

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.6	51.8	77.8



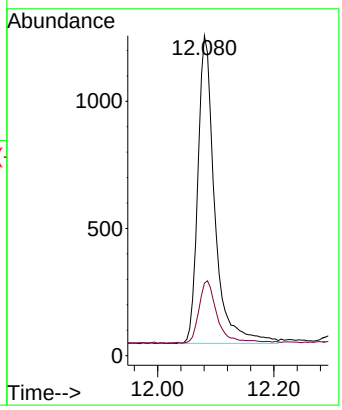


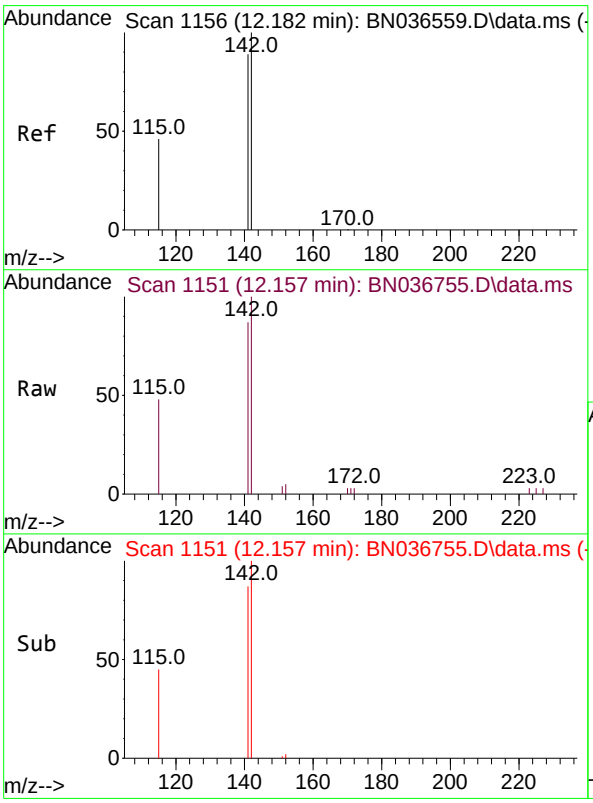
#11
2-Methylnaphthalene-d10
Concen: 0.347 ng
RT: 12.080 min Scan# 11
Delta R.T. -0.030 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 2439

Ion	Ratio	Lower	Upper
152	100		
151	22.1	17.0	25.6

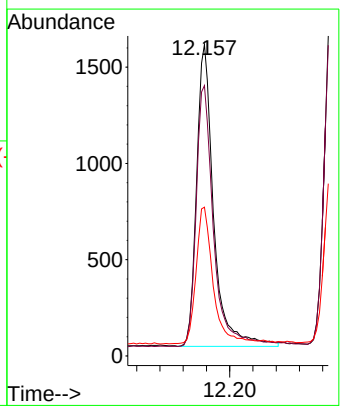


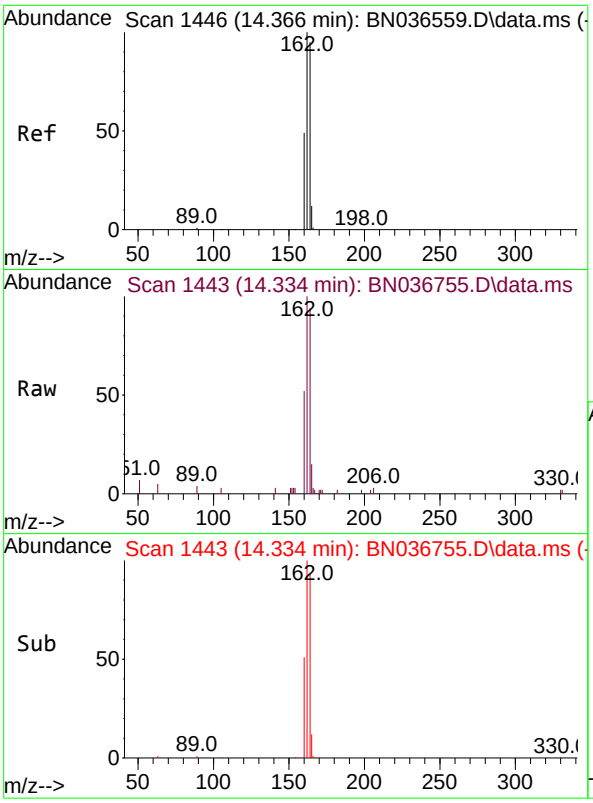


#12
2-Methylnaphthalene
Concen: 0.361 ng
RT: 12.157 min Scan# 1151
Delta R.T. -0.025 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:142 Resp: 3191

Ion	Ratio	Lower	Upper
142	100		
141	86.8	71.7	107.5
115	47.8	38.3	57.5



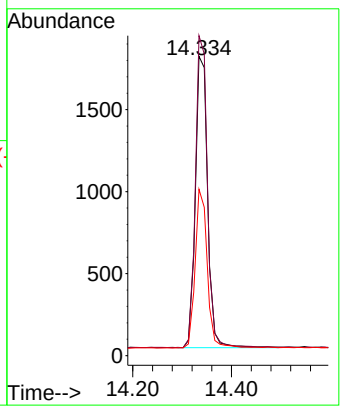


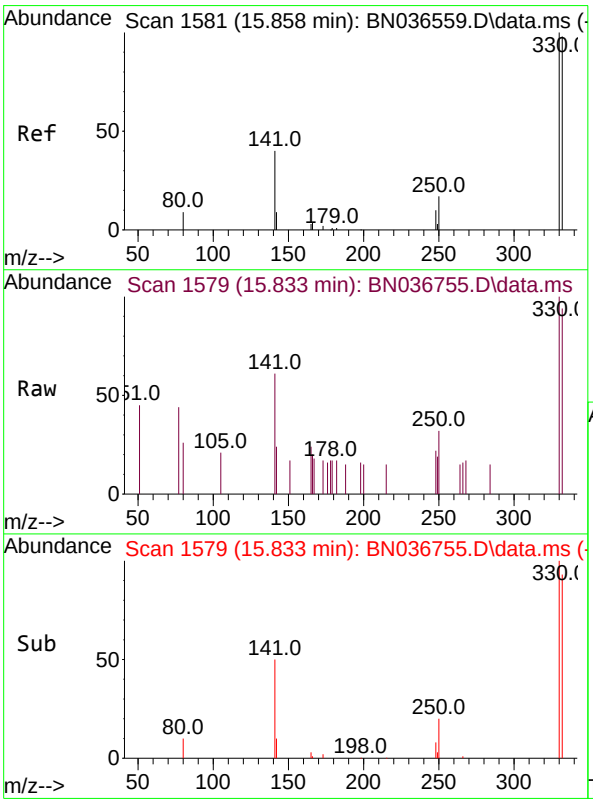
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:164 Resp: 3073

Ion	Ratio	Lower	Upper
164	100		
162	106.9	84.2	126.2
160	55.6	42.2	63.2

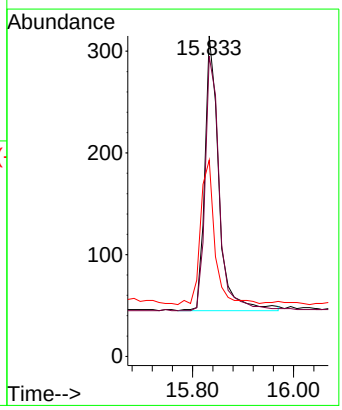


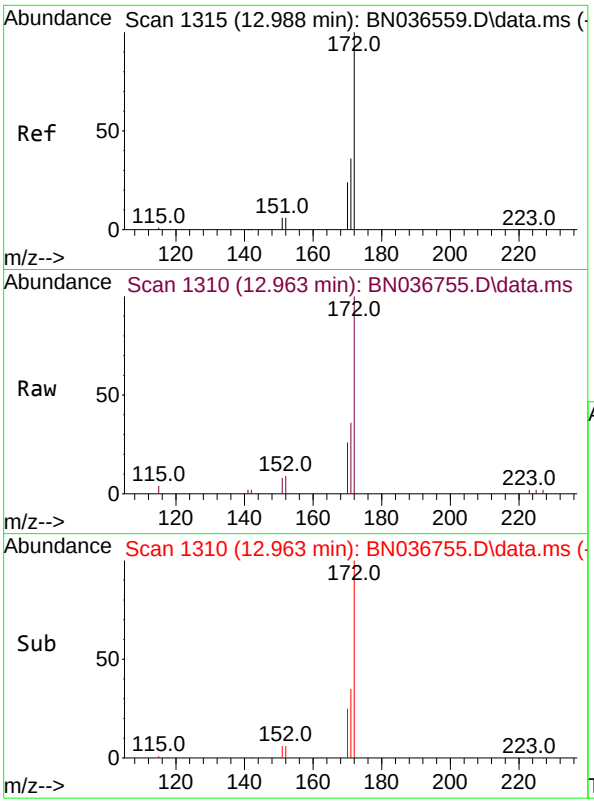


#14
2,4,6-Tribromophenol
Concen: 0.375 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.025 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:330 Resp: 523

Ion	Ratio	Lower	Upper
330	100		
332	93.7	75.2	112.8
141	53.5	43.4	65.2



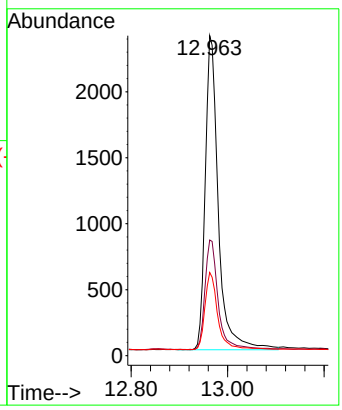


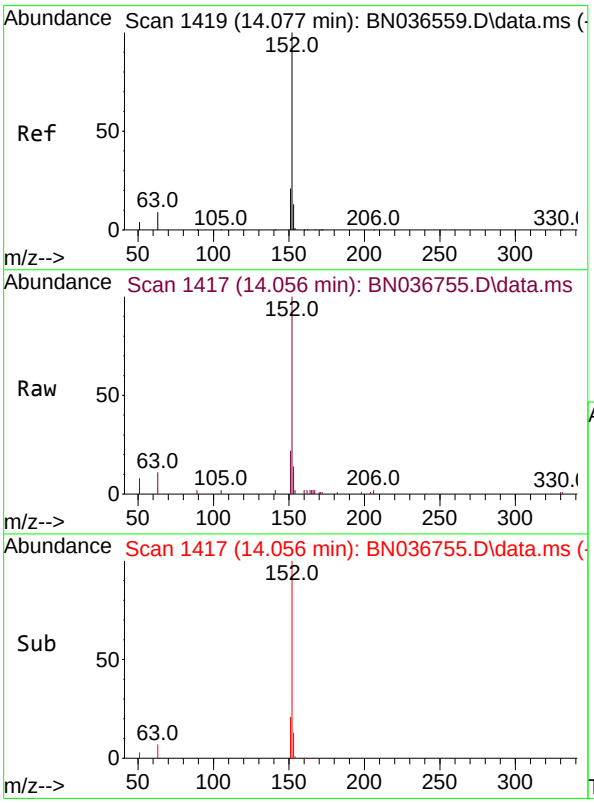
#15
2-Fluorobiphenyl
Concen: 0.319 ng
RT: 12.963 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:172 Resp: 5695

Ion	Ratio	Lower	Upper
172	100		
171	36.2	29.5	44.3
170	26.0	20.2	30.4

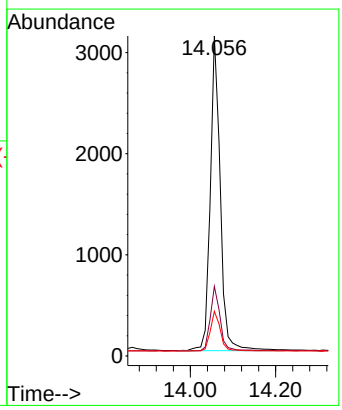


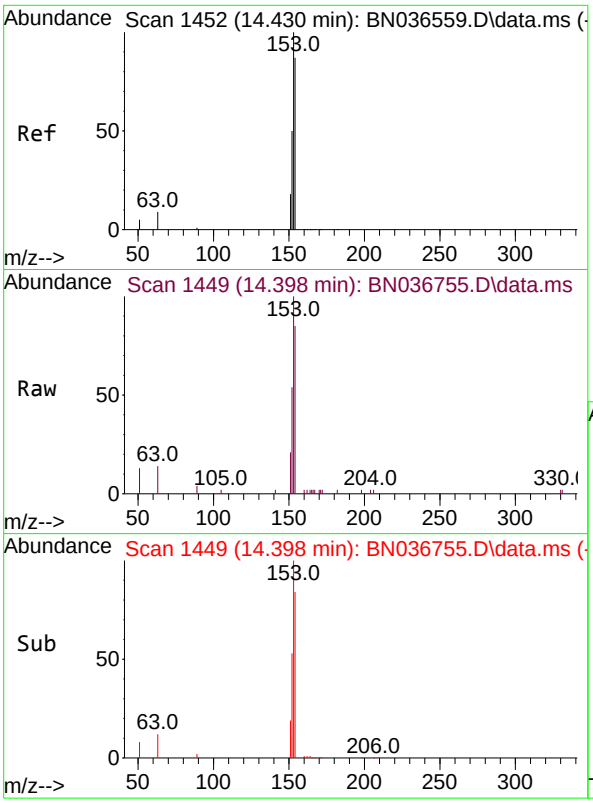


#16
Acenaphthylene
Concen: 0.349 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.021 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:152 Resp: 5054

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.2	24.4
153	13.1	10.6	15.8



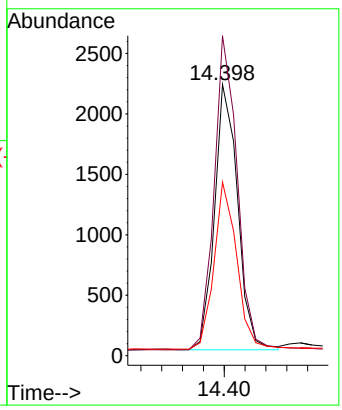


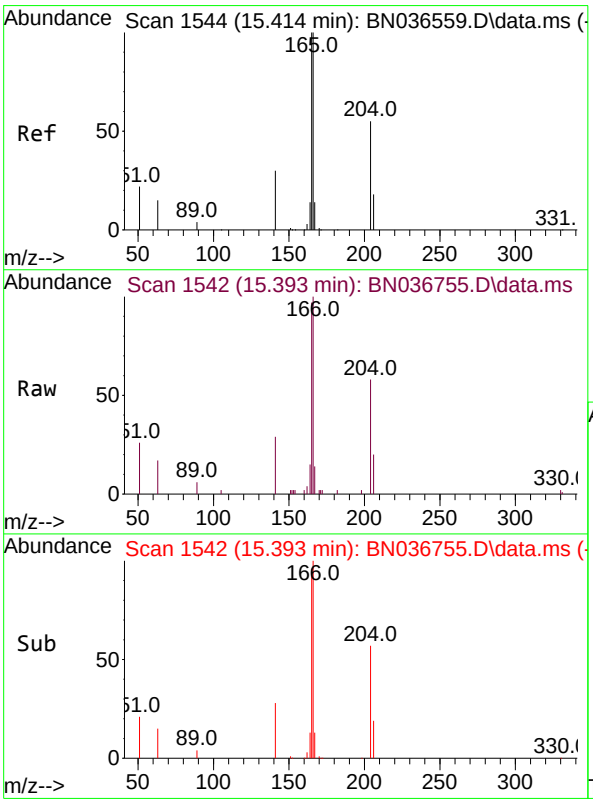
#17
Acenaphthene
Concen: 0.356 ng
RT: 14.398 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:154 Resp: 3383

Ion	Ratio	Lower	Upper
154	100		
153	119.0	94.1	141.1
152	62.7	49.8	74.6

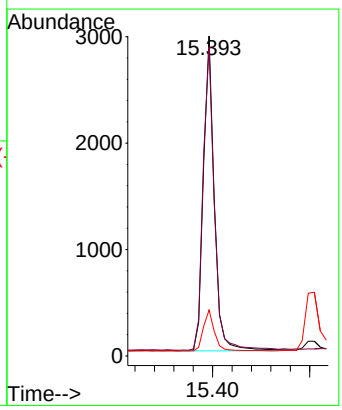


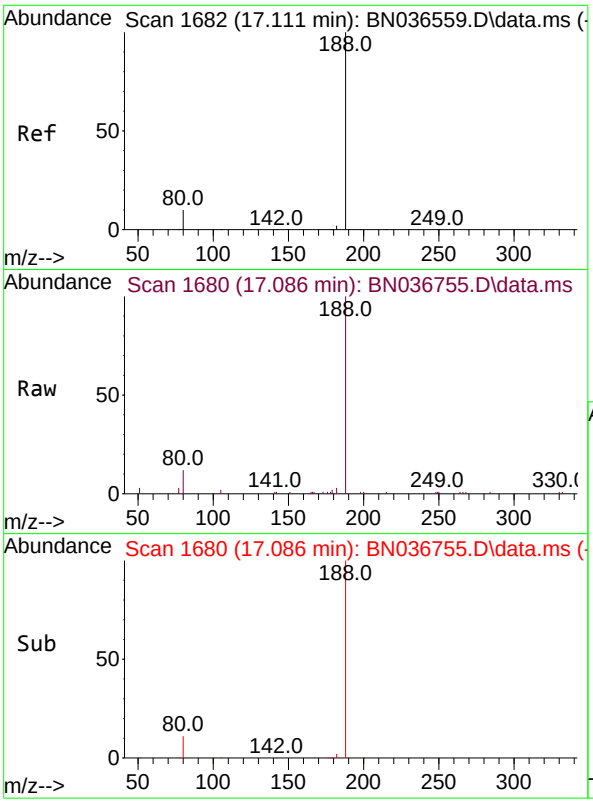


#18
Fluorene
Concen: 0.364 ng
RT: 15.393 min Scan# 1542
Delta R.T. -0.021 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:166 Resp: 4678

Ion	Ratio	Lower	Upper
166	100		
165	99.5	79.8	119.8
167	13.0	10.6	15.8



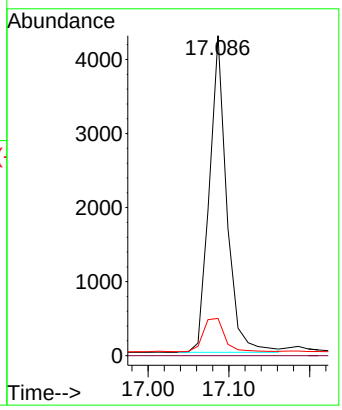


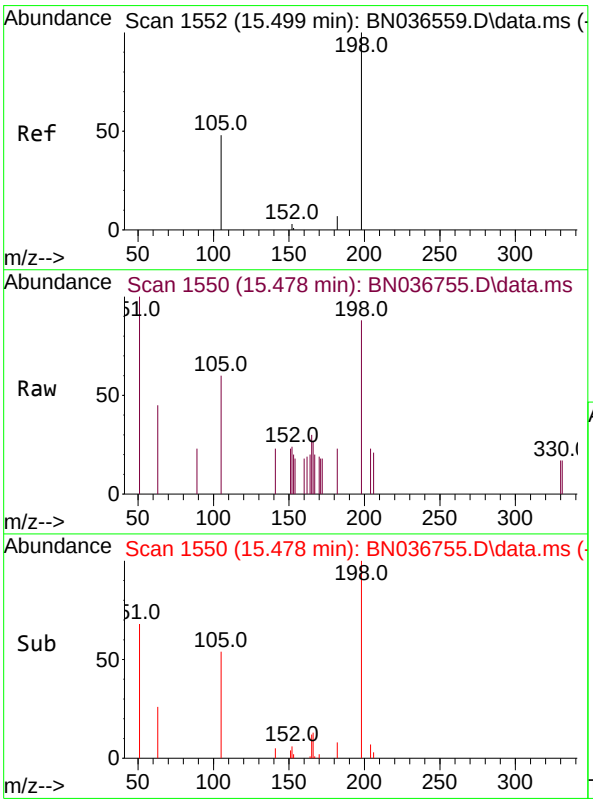
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:188 Resp: 6417

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.6	8.8	13.2

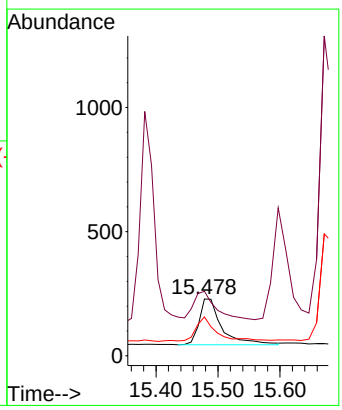


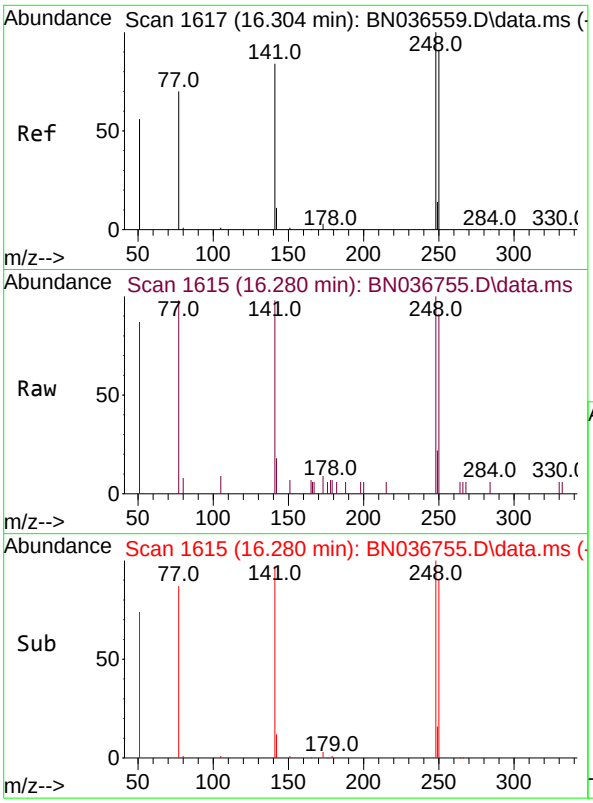


#20
4,6-Dinitro-2-methylphenol
Concen: 0.444 ng
RT: 15.478 min Scan# 1550
Delta R.T. -0.021 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:198 Resp: 489

Ion	Ratio	Lower	Upper
198	100		
51	113.5	107.9	161.9
105	68.6	56.2	84.2



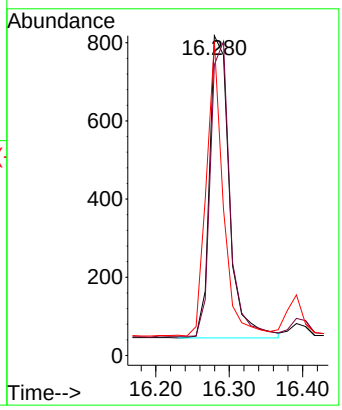


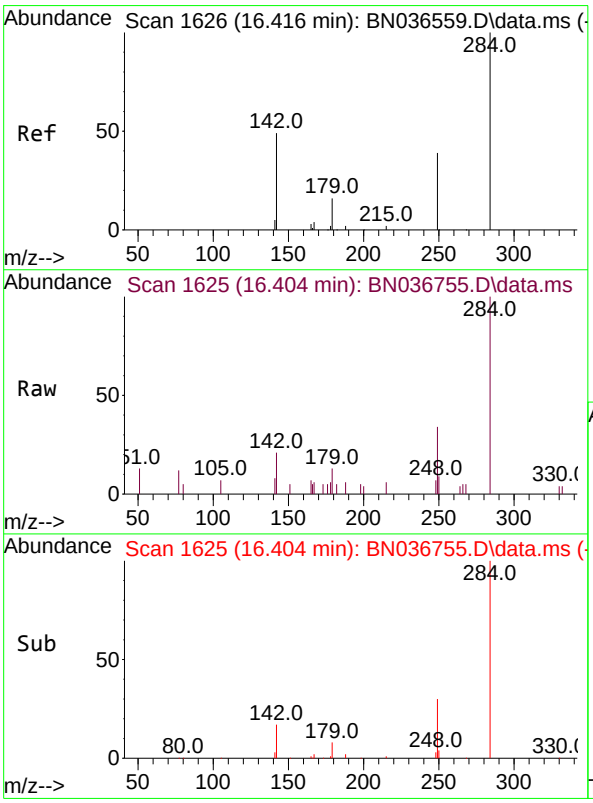
#21
4-Bromophenyl-phenylether
Concen: 0.362 ng
RT: 16.280 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:248 Resp: 1456

Ion	Ratio	Lower	Upper
248	100		
250	91.0	73.0	109.6
141	98.2	68.6	103.0

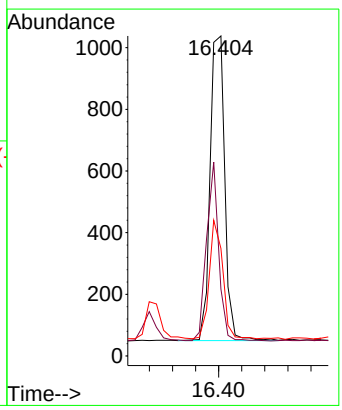


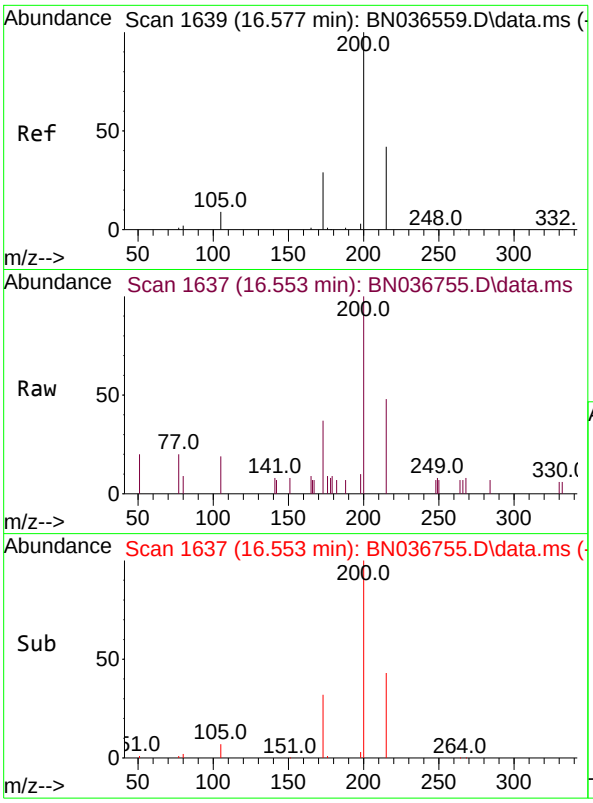


#22
Hexachlorobenzene
Concen: 0.359 ng
RT: 16.404 min Scan# 1625
Delta R.T. -0.012 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:284 Resp: 1743

Ion	Ratio	Lower	Upper
284	100		
142	48.7	37.0	55.4
249	35.6	28.1	42.1



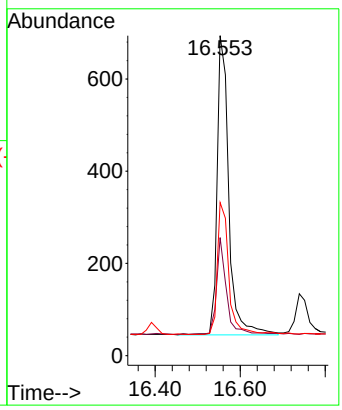


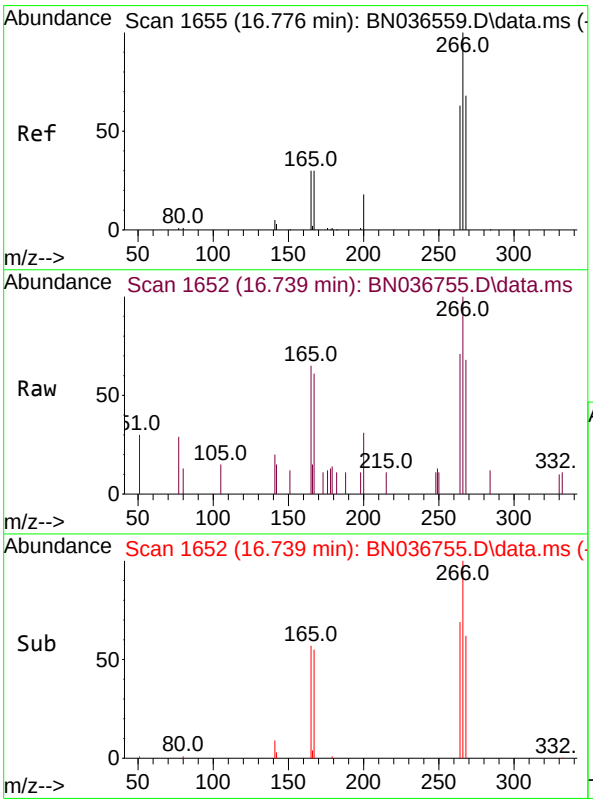
#23
Atrazine
Concen: 0.382 ng
RT: 16.553 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:200 Resp: 1231

Ion	Ratio	Lower	Upper
200	100		
173	36.9	27.3	40.9
215	47.8	36.8	55.2

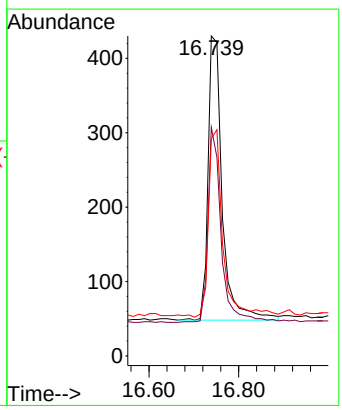


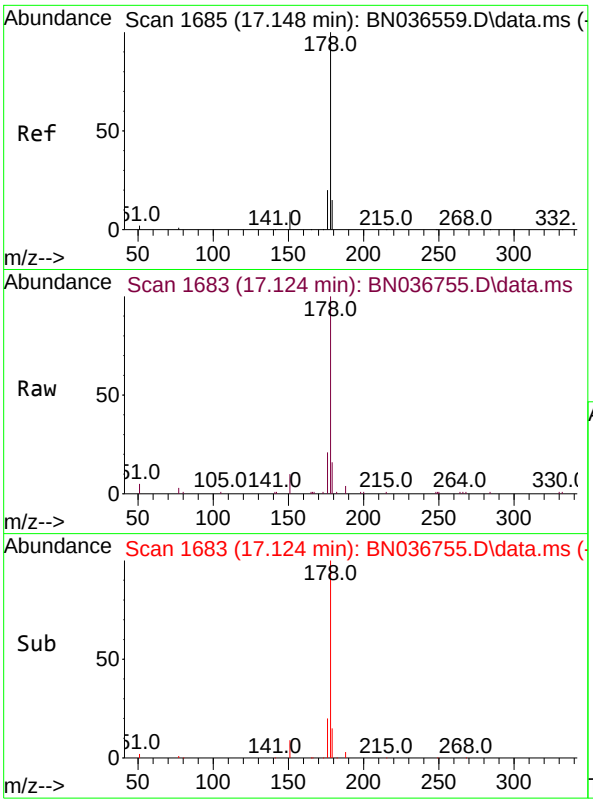


#24
Pentachlorophenol
Concen: 0.378 ng
RT: 16.739 min Scan# 1652
Delta R.T. -0.037 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:266 Resp: 837

Ion	Ratio	Lower	Upper
266	100		
264	63.9	49.6	74.4
268	67.6	50.9	76.3



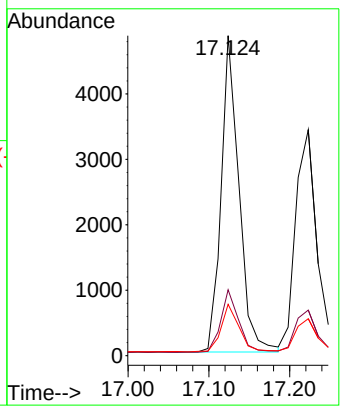


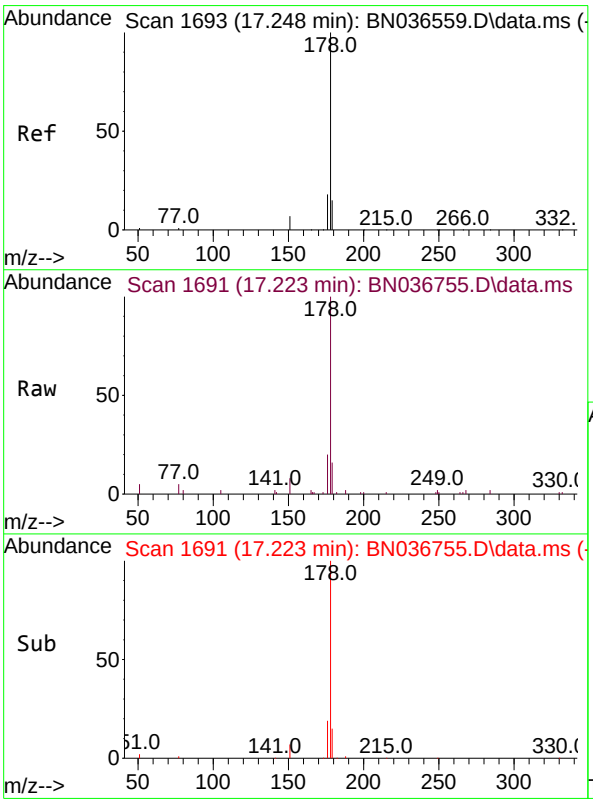
#25
Phenanthrene
Concen: 0.387 ng
RT: 17.124 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:178 Resp: 7451

Ion	Ratio	Lower	Upper
178	100		
176	19.9	15.9	23.9
179	15.4	12.2	18.4

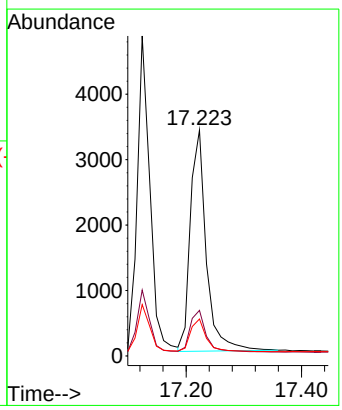


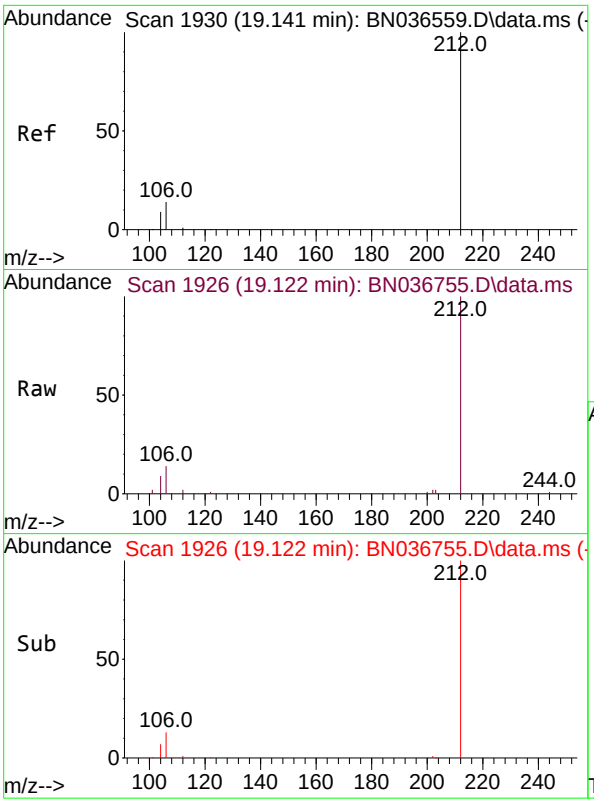


#26
Anthracene
Concen: 0.374 ng
RT: 17.223 min Scan# 1691
Delta R.T. -0.025 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:178 Resp: 6503

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.4	23.2
179	15.2	12.6	18.8



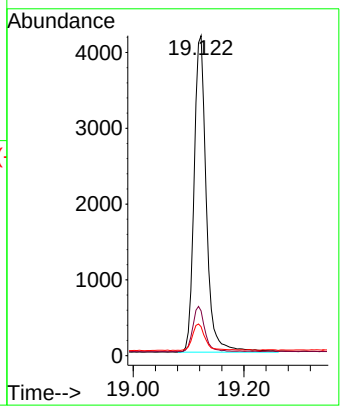


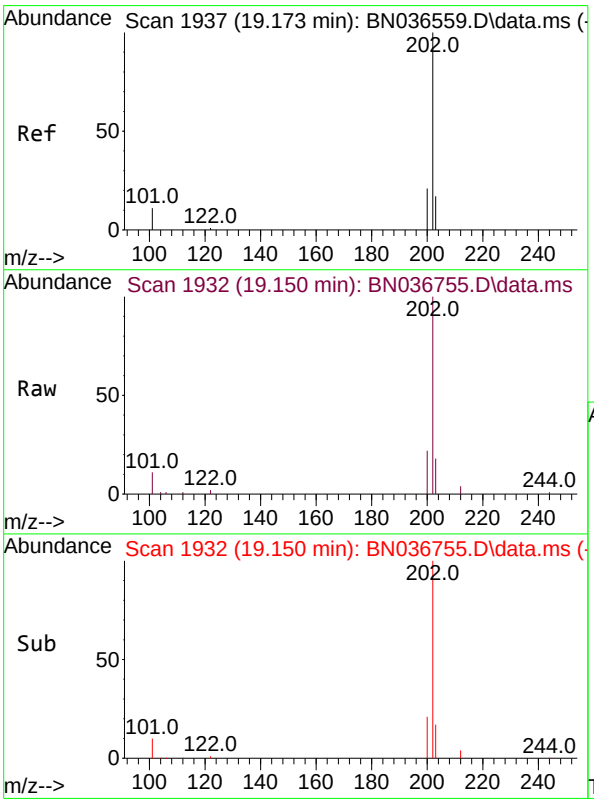
#27
Fluoranthene-d10
Concen: 0.391 ng
RT: 19.122 min Scan# 1
Delta R.T. -0.018 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:212 Resp: 6435

Ion	Ratio	Lower	Upper
212	100		
106	14.1	11.8	17.6
104	8.9	7.3	10.9

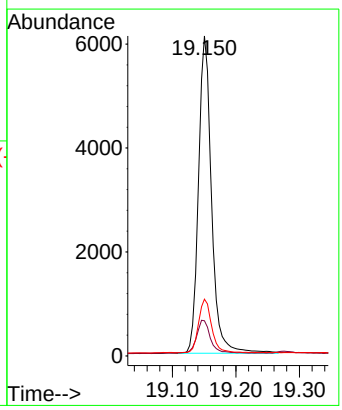


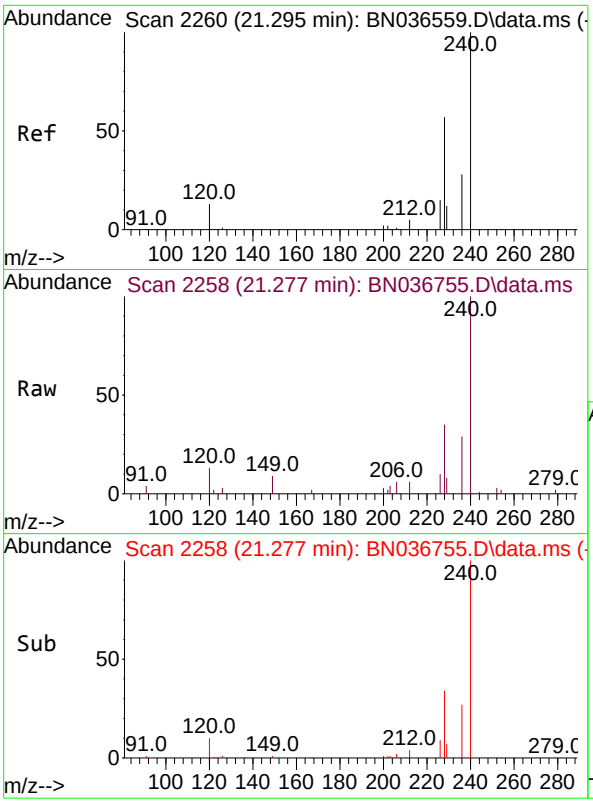


#28
Fluoranthene
Concen: 0.402 ng
RT: 19.150 min Scan# 1932
Delta R.T. -0.023 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:202 Resp: 8702

Ion	Ratio	Lower	Upper
202	100		
101	10.8	9.4	14.0
203	17.0	13.5	20.3



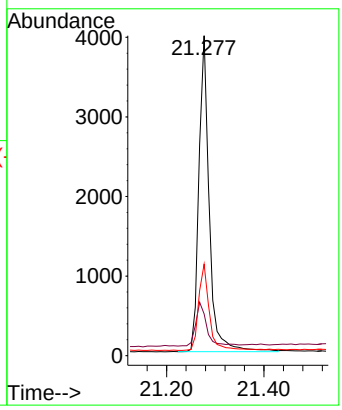


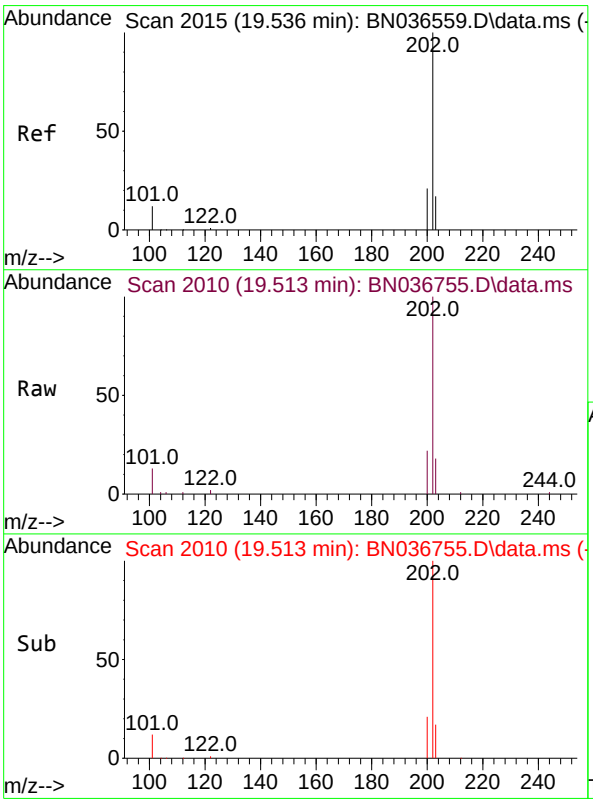
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:240 Resp: 5861

Ion	Ratio	Lower	Upper
240	100		
120	13.0	14.6	22.0#
236	28.6	24.1	36.1

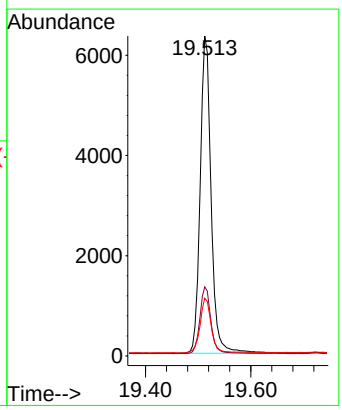


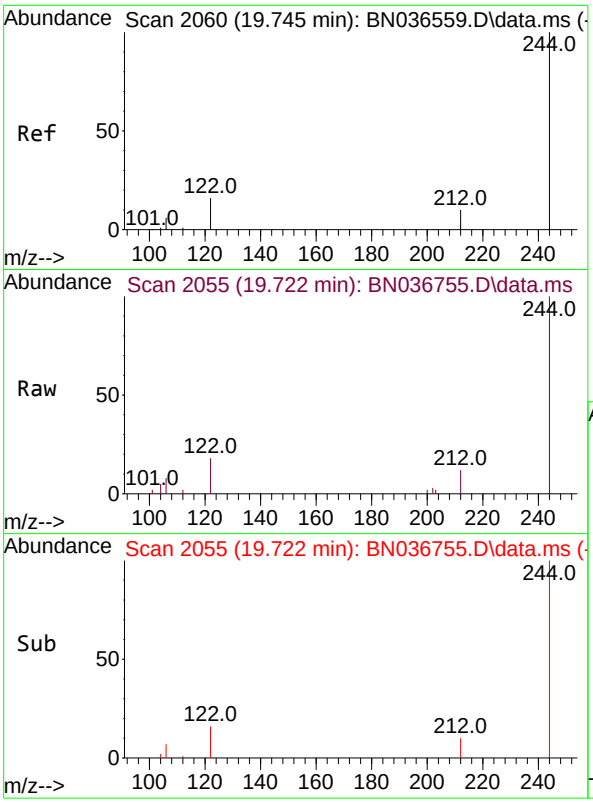


#30
Pyrene
Concen: 0.319 ng
RT: 19.513 min Scan# 2010
Delta R.T. -0.023 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:202 Resp: 9138

Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.1	25.7
203	17.8	14.1	21.1



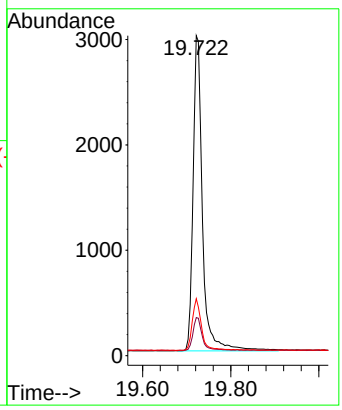


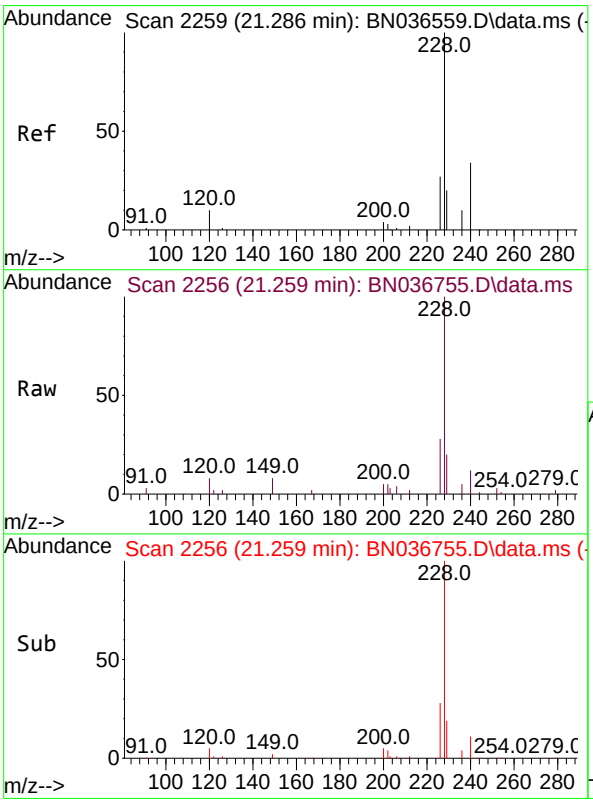
#31
Terphenyl-d14
Concen: 0.317 ng
RT: 19.722 min Scan# 2
Delta R.T. -0.023 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:244 Resp: 4447

Ion	Ratio	Lower	Upper
244	100		
212	11.9	9.6	14.4
122	17.8	13.9	20.9

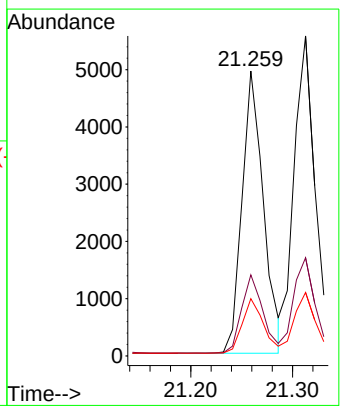


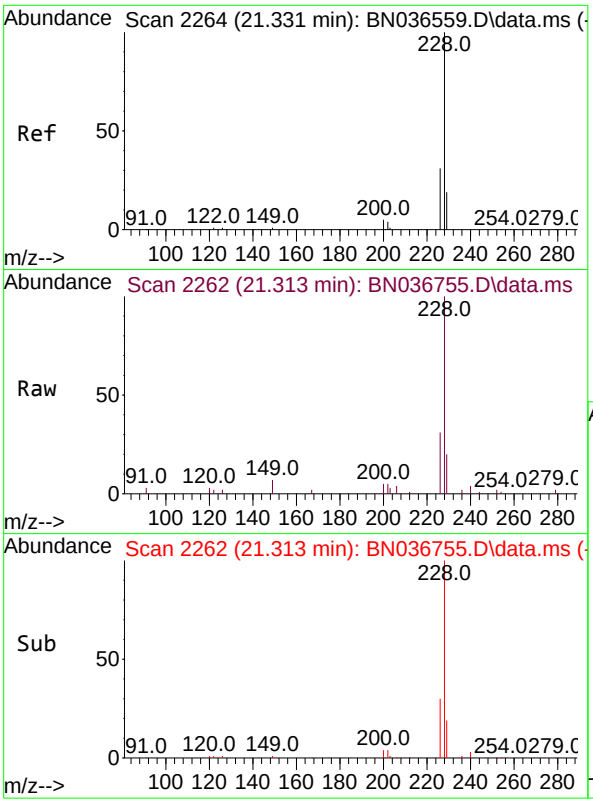


#32
Benzo(a)anthracene
Concen: 0.354 ng
RT: 21.259 min Scan# 2256
Delta R.T. -0.027 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:228 Resp: 7209

Ion	Ratio	Lower	Upper
228	100		
226	28.5	22.5	33.7
229	20.1	16.6	25.0



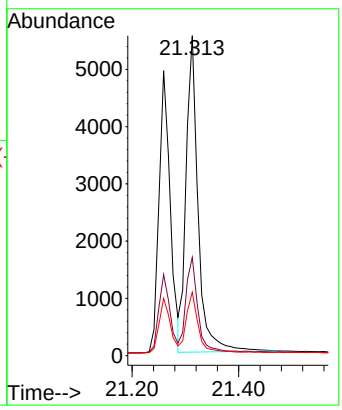


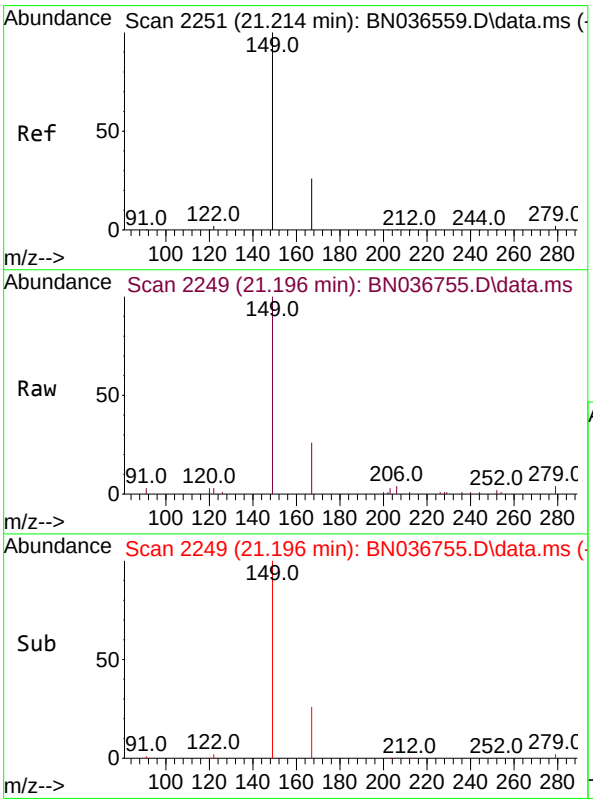
#33
Chrysene
Concen: 0.387 ng
RT: 21.313 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:228 Resp: 8619

Ion	Ratio	Lower	Upper
228	100		
226	30.7	25.3	37.9
229	19.8	15.8	23.8

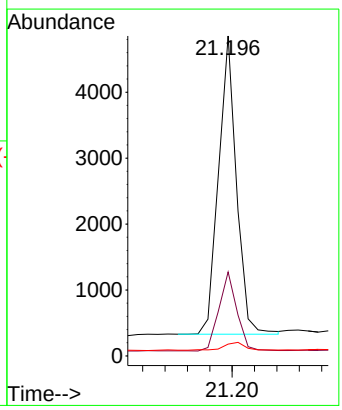


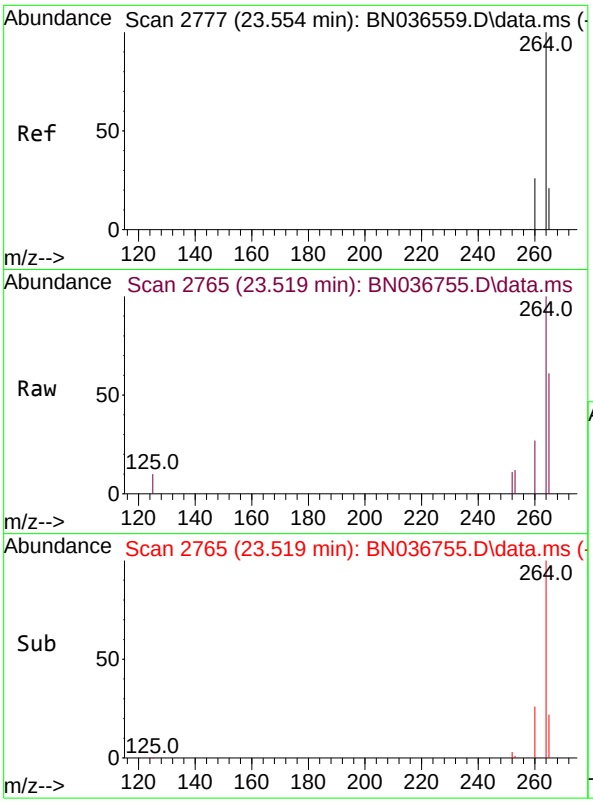


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.347 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:149 Resp: 5036

Ion	Ratio	Lower	Upper
149	100		
167	26.3	20.7	31.1
279	2.9	3.6	5.4#



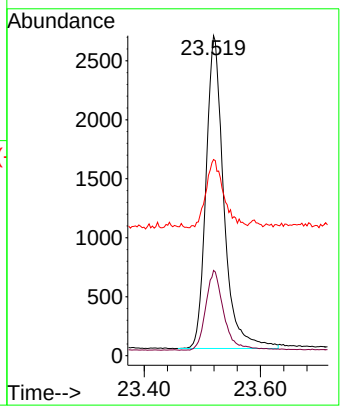


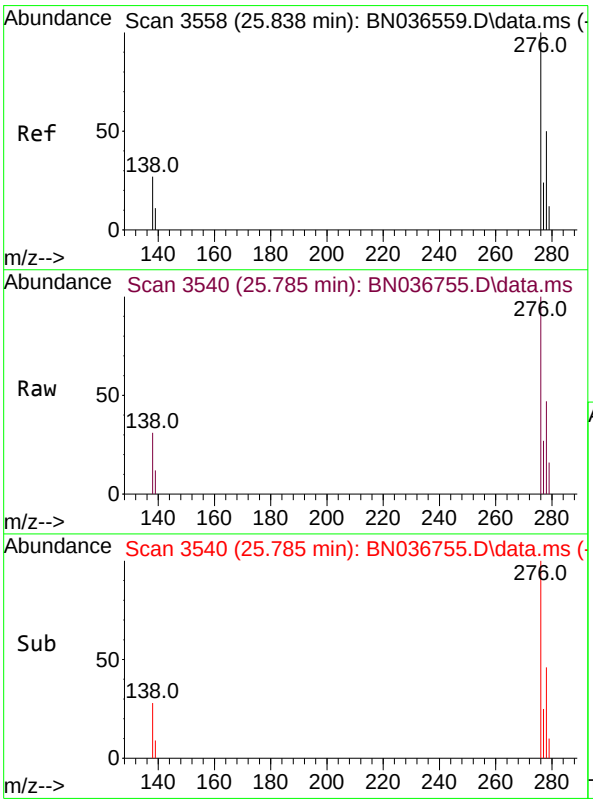
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.519 min Scan# 2
Delta R.T. -0.035 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:264 Resp: 5647

Ion	Ratio	Lower	Upper
264	100		
260	26.7	22.6	33.8
265	61.3	88.1	132.1#

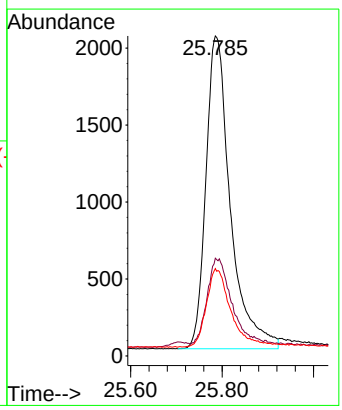


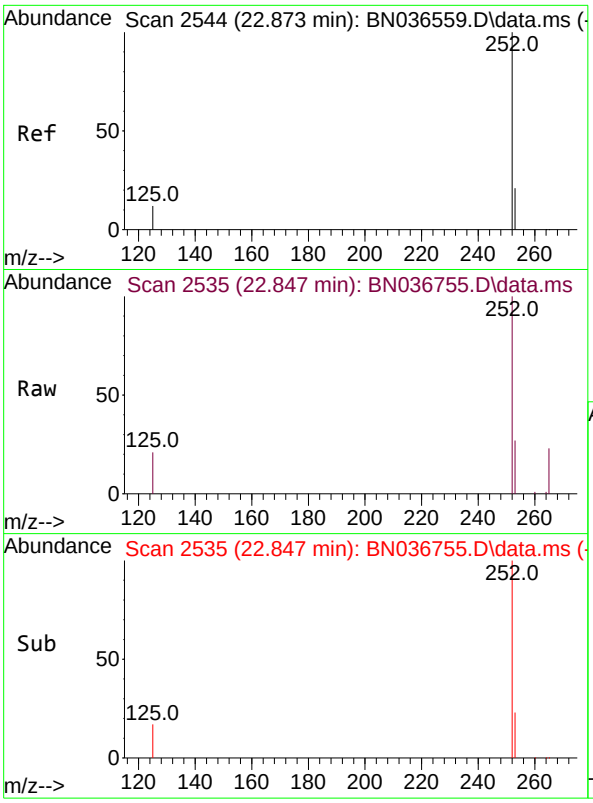


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.371 ng
RT: 25.785 min Scan# 3540
Delta R.T. -0.052 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:276 Resp: 7554

Ion	Ratio	Lower	Upper
276	100		
138	27.5	23.4	35.2
277	24.8	20.0	30.0



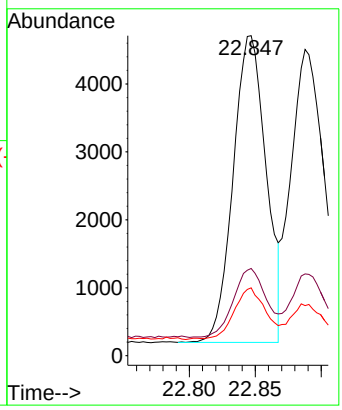


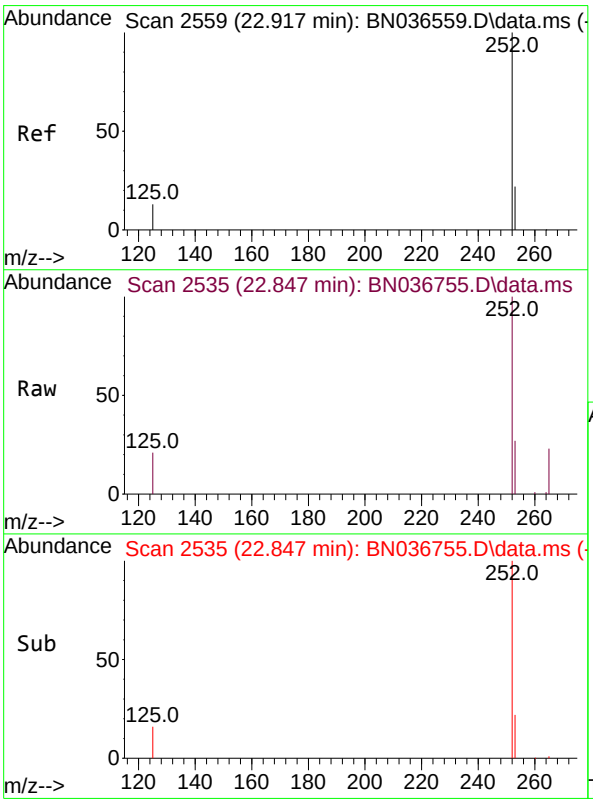
#37
Benzo(b)fluoranthene
Concen: 0.382 ng
RT: 22.847 min Scan# 2
Delta R.T. -0.026 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:252 Resp: 7851

Ion	Ratio	Lower	Upper
252	100		
253	27.3	23.9	35.9
125	21.2	17.4	26.2

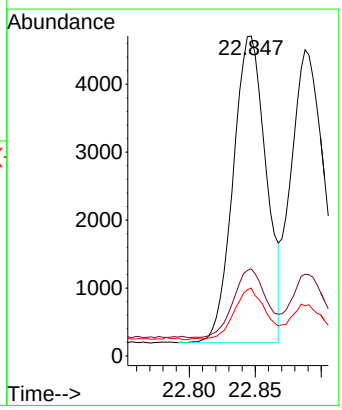


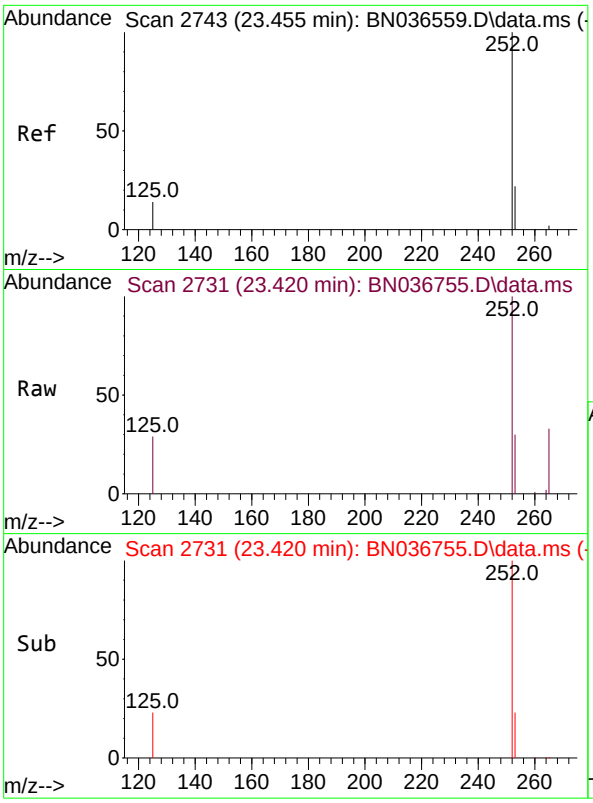


#38
Benzo(k)fluoranthene
Concen: 0.364 ng
RT: 22.847 min Scan# 2535
Delta R.T. -0.070 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:252 Resp: 7851

Ion	Ratio	Lower	Upper
252	100		
253	27.3	24.6	36.8
125	21.2	17.8	26.8



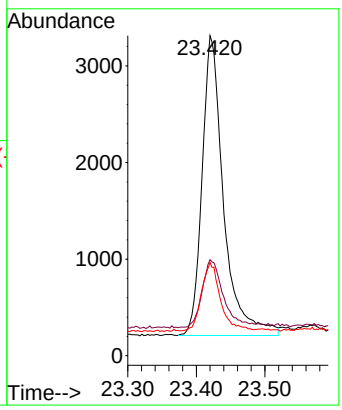


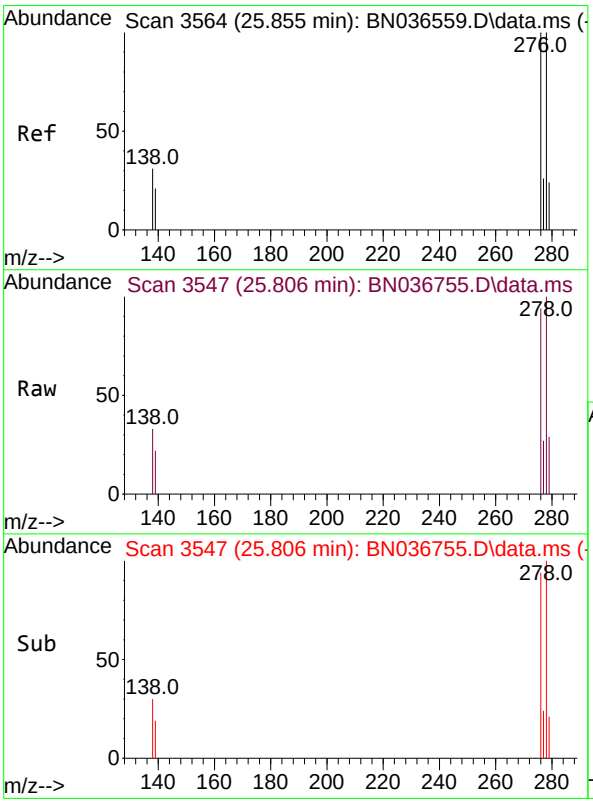
#39
Benzo(a)pyrene
Concen: 0.391 ng
RT: 23.420 min Scan# 2
Delta R.T. -0.035 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:252 Resp: 6760

Ion	Ratio	Lower	Upper
252	100		
253	30.0	27.8	41.8
125	29.1	22.7	34.1

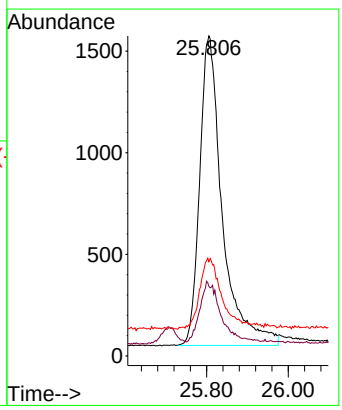


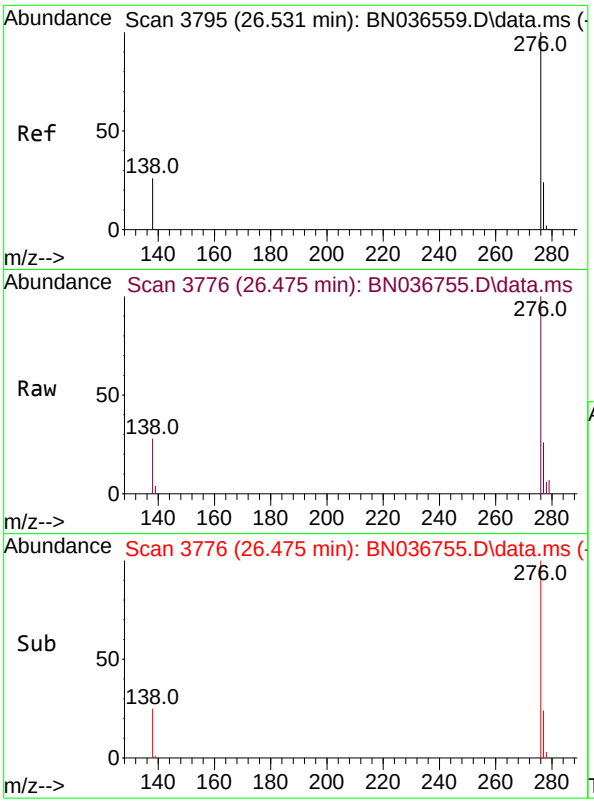


#40
Dibenzo(a,h)anthracene
Concen: 0.370 ng
RT: 25.806 min Scan# 3547
Delta R.T. -0.050 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:278 Resp: 5864

Ion	Ratio	Lower	Upper
278	100		
139	21.8	20.8	31.2
279	29.5	28.8	43.2



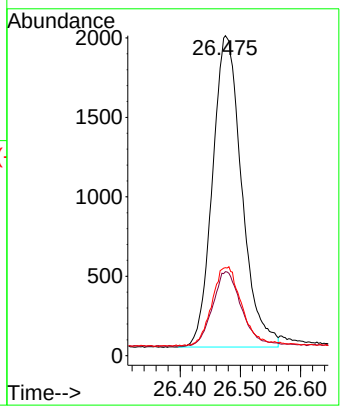


#41
Benzo(g,h,i)perylene
Concen: 0.363 ng
RT: 26.475 min Scan# 3
Delta R.T. -0.055 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:276 Resp: 6596

Ion	Ratio	Lower	Upper
276	100		
277	26.3	22.2	33.4
138	27.5	24.1	36.1



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036757.D
Acq On : 28 Mar 2025 03:46
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Mar 28 05:36:56 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

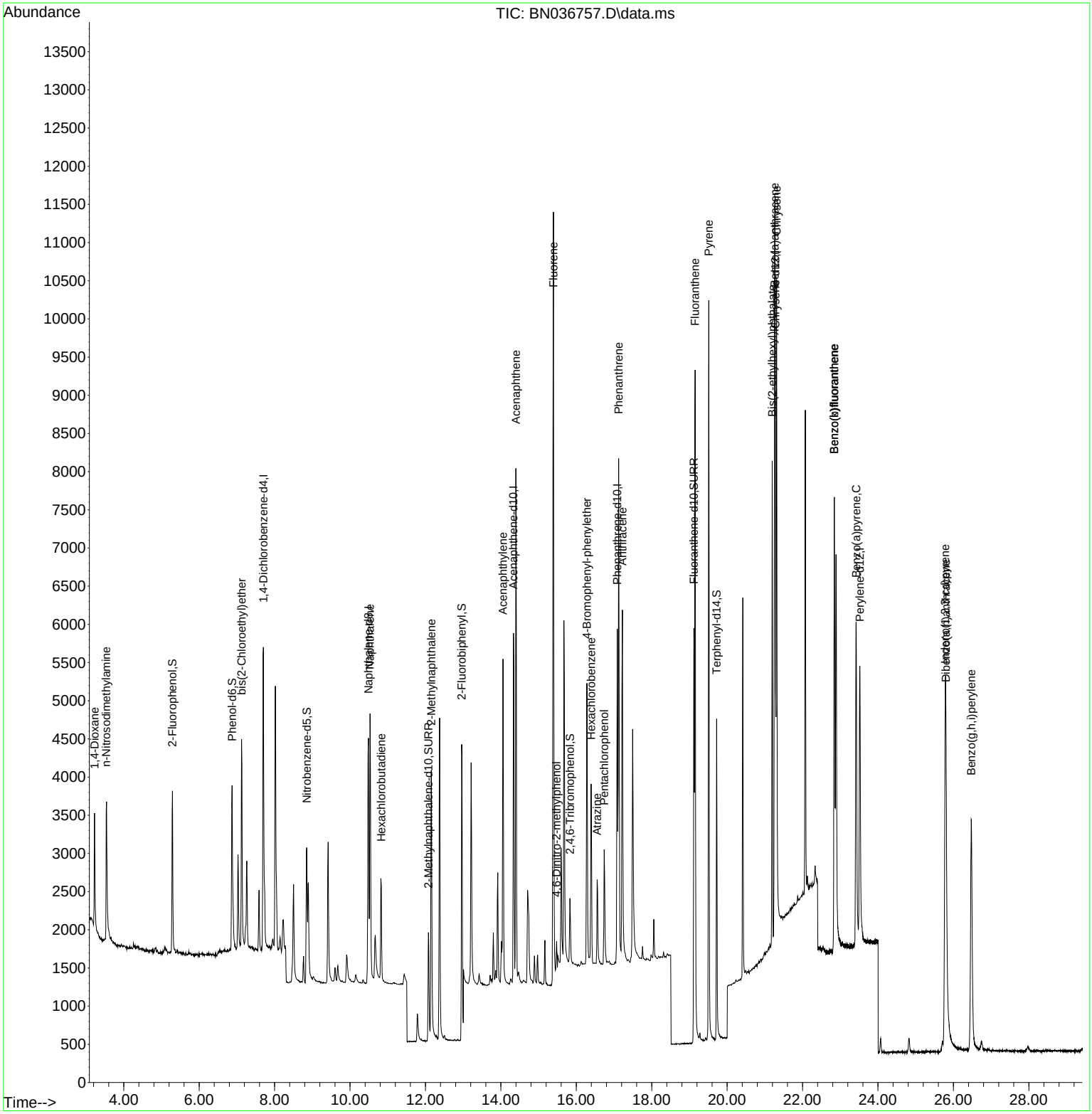
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.703	152	1974	0.400	ng		-0.02
7) Naphthalene-d8	10.488	136	4607	0.400	ng		-0.02
13) Acenaphthene-d10	14.334	164	2750	0.400	ng		-0.03
19) Phenanthrene-d10	17.087	188	5937	0.400	ng		-0.02
29) Chrysene-d12	21.277	240	5680	0.400	ng		#-0.02
35) Perylene-d12	23.519	264	5140	0.400	ng		#-0.03
System Monitoring Compounds							
4) 2-Fluorophenol	5.291	112	1543	0.335	ng		-0.02
5) Phenol-d6	6.872	99	1947	0.343	ng		-0.03
8) Nitrobenzene-d5	8.854	82	1705	0.340	ng		-0.02
11) 2-Methylnaphthalene-d10	12.080	152	2347	0.342	ng		-0.03
14) 2,4,6-Tribromophenol	15.833	330	507	0.406	ng		-0.02
15) 2-Fluorobiphenyl	12.963	172	5537	0.346	ng		-0.03
27) Fluoranthene-d10	19.118	212	6252	0.411	ng		-0.02
31) Terphenyl-d14	19.722	244	4254	0.313	ng		-0.02
Target Compounds							Qvalue
2) 1,4-Dioxane	3.225	88	873	0.399	ng		97
3) n-Nitrosodimethylamine	3.536	42	1735	0.392	ng		95
6) bis(2-Chloroethyl)ether	7.125	93	2072	0.353	ng		98
9) Naphthalene	10.530	128	4865	0.359	ng		99
10) Hexachlorobutadiene	10.829	225	1140	0.357	ng	#	99
12) 2-Methylnaphthalene	12.157	142	3049	0.354	ng		98
16) Acenaphthylene	14.056	152	4680	0.361	ng		99
17) Acenaphthene	14.398	154	3124	0.368	ng		100
18) Fluorene	15.393	166	4263	0.371	ng		99
20) 4,6-Dinitro-2-methylph...	15.478	198	472	0.457	ng		83
21) 4-Bromophenyl-phenylether	16.280	248	1382	0.372	ng		91
22) Hexachlorobenzene	16.391	284	1636	0.364	ng		97
23) Atrazine	16.553	200	1154	0.387	ng		97
24) Pentachlorophenol	16.739	266	868	0.424	ng		97
25) Phenanthrene	17.124	178	6866	0.386	ng		100
26) Anthracene	17.223	178	6014	0.374	ng		99
28) Fluoranthene	19.150	202	8476	0.424	ng		99
30) Pyrene	19.513	202	9024	0.325	ng		100
32) Benzo(a)anthracene	21.259	228	7146	0.362	ng		99
33) Chrysene	21.313	228	8272	0.383	ng		99
34) Bis(2-ethylhexyl)phtha...	21.196	149	5431	0.386	ng	#	99
36) Indeno(1,2,3-cd)pyrene	25.782	276	7314	0.394	ng		95
37) Benzo(b)fluoranthene	22.841	252	7293	0.390	ng		95
38) Benzo(k)fluoranthene	22.841	252	7293	0.372	ng		94
39) Benzo(a)pyrene	23.420	252	6291	0.399	ng		95
40) Dibenzo(a,h)anthracene	25.803	278	5522	0.382	ng		91
41) Benzo(g,h,i)perylene	26.475	276	6376	0.386	ng		94

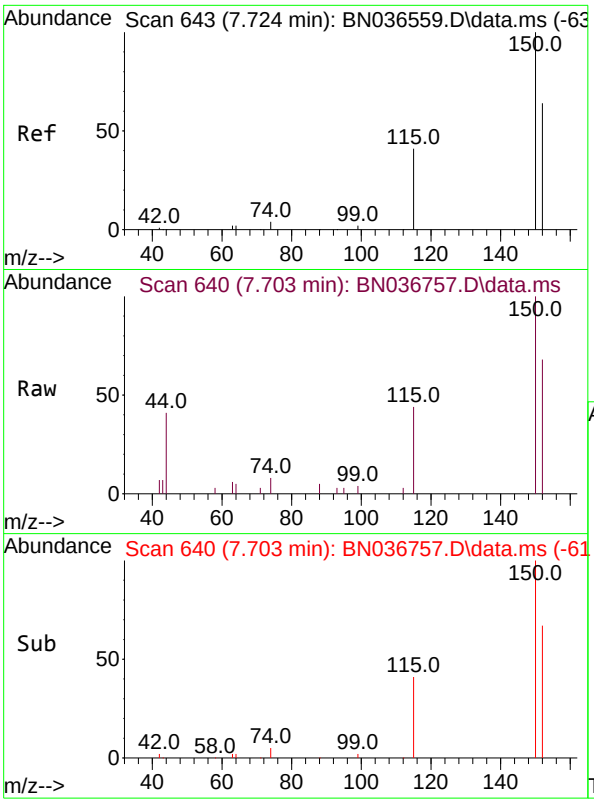
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036757.D
Acq On : 28 Mar 2025 03:46
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Mar 28 05:36:56 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



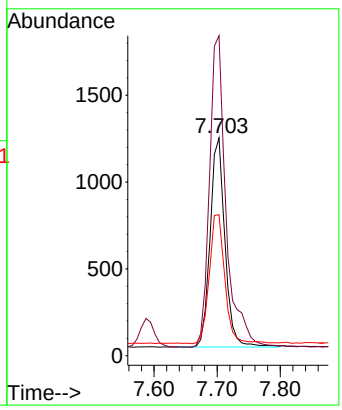


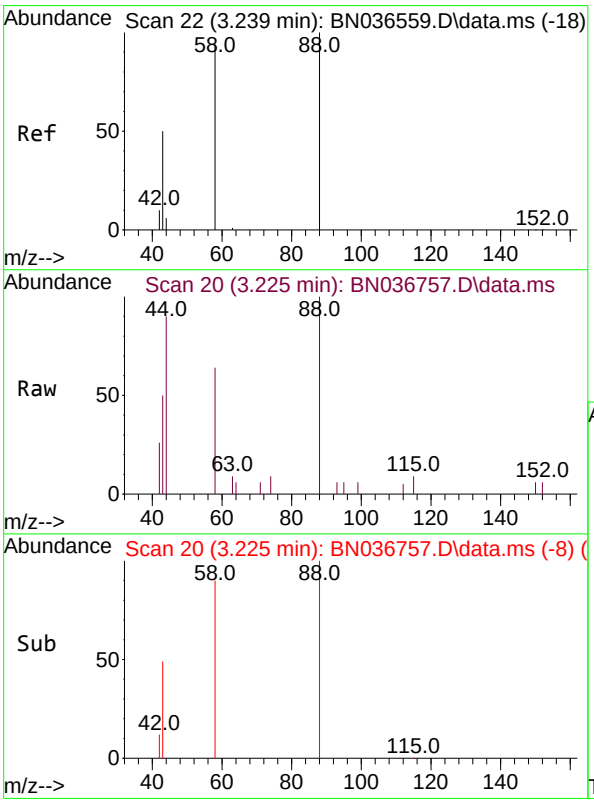
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.703 min Scan# 64
Delta R.T. -0.021 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 1974

Ion	Ratio	Lower	Upper
152	100		
150	147.0	123.7	185.5
115	64.8	54.3	81.5

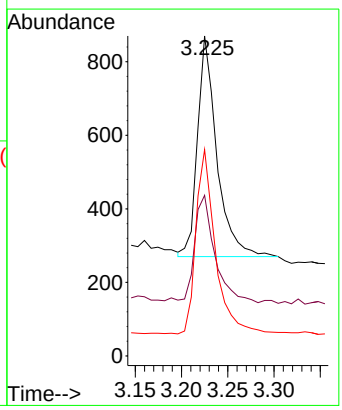


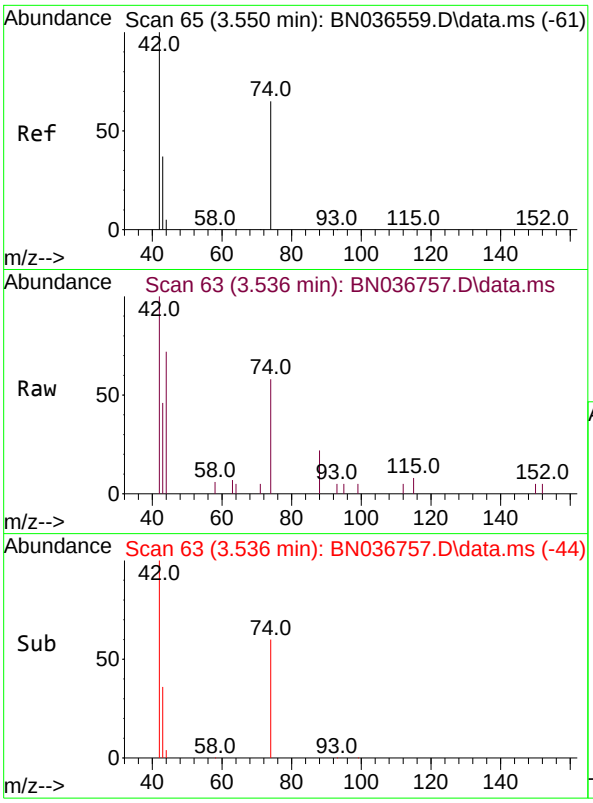


#2
1,4-Dioxane
Concen: 0.399 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion: 88 Resp: 873

Ion	Ratio	Lower	Upper
88	100		
43	51.8	37.8	56.8
58	83.6	67.4	101.2



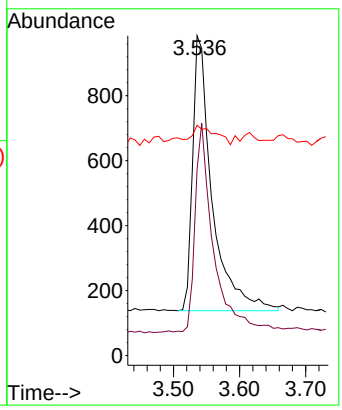


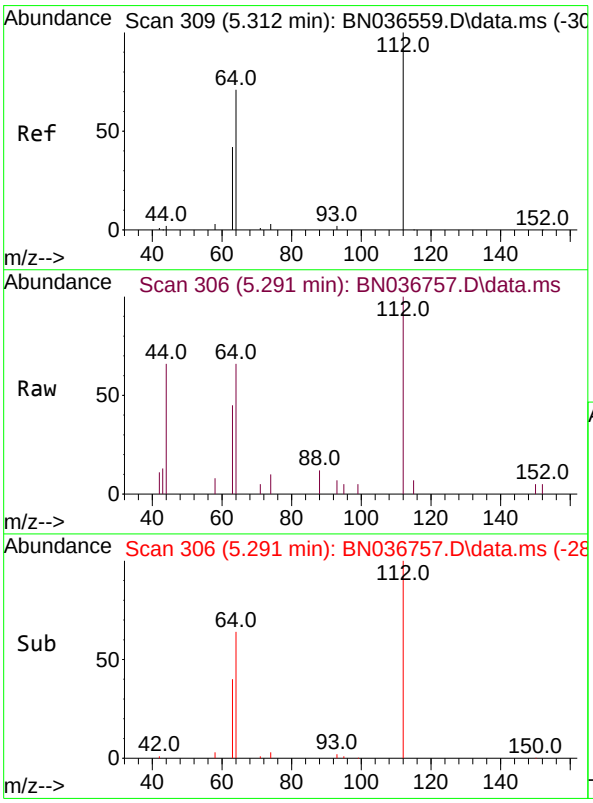
#3
n-Nitrosodimethylamine
Concen: 0.392 ng
RT: 3.536 min Scan# 6
Delta R.T. -0.014 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 42 Resp: 1735

Ion	Ratio	Lower	Upper
42	100		
74	70.8	60.6	90.8
44	8.1	6.3	9.5

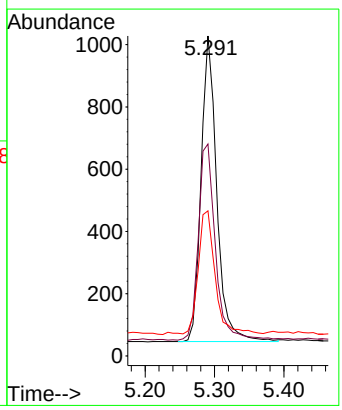


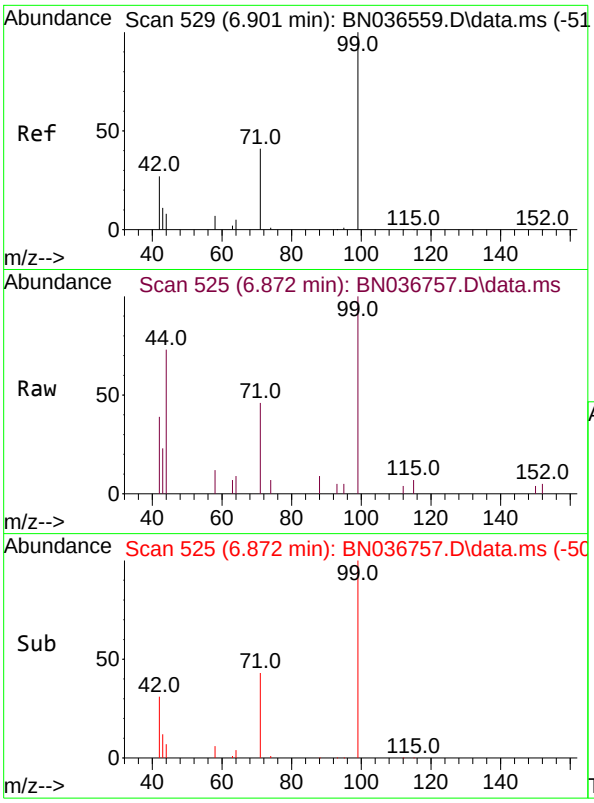


#4
2-Fluorophenol
Concen: 0.335 ng
RT: 5.291 min Scan# 306
Delta R.T. -0.022 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:112 Resp: 1543

Ion	Ratio	Lower	Upper
112	100		
64	69.8	53.1	79.7
63	43.0	31.8	47.8



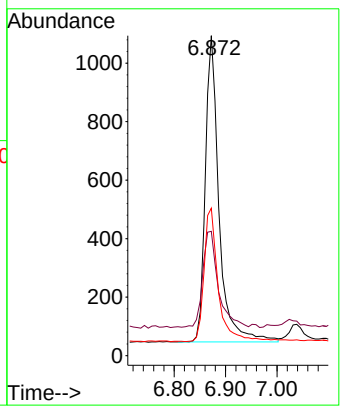


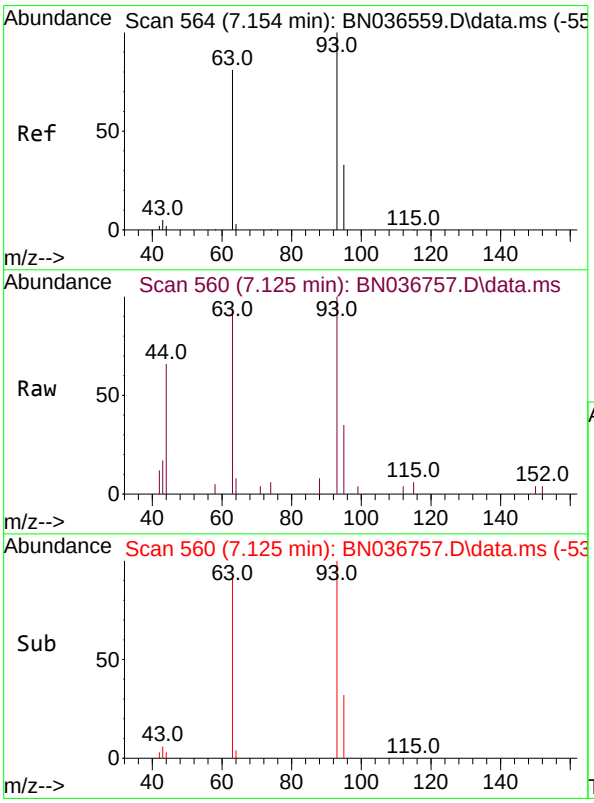
#5
Phenol-d6
Concen: 0.343 ng
RT: 6.872 min Scan# 5
Delta R.T. -0.029 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 99 Resp: 1947

Ion	Ratio	Lower	Upper
99	100		
42	35.4	26.5	39.7
71	46.1	34.1	51.1

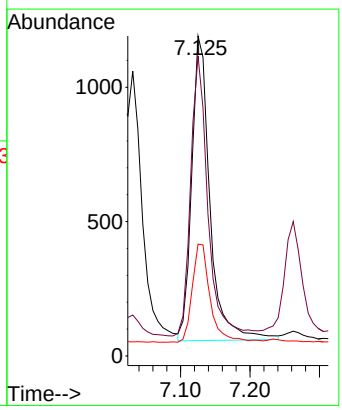


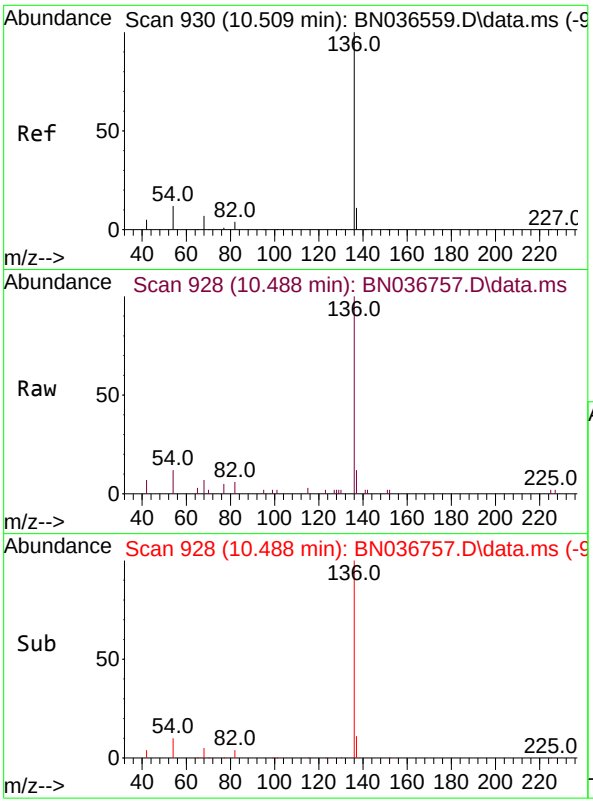


#6
bis(2-Chloroethyl)ether
Concen: 0.353 ng
RT: 7.125 min Scan# 560
Delta R.T. -0.029 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion: 93 Resp: 2072

Ion	Ratio	Lower	Upper
93	100		
63	86.9	67.7	101.5
95	31.7	25.6	38.4



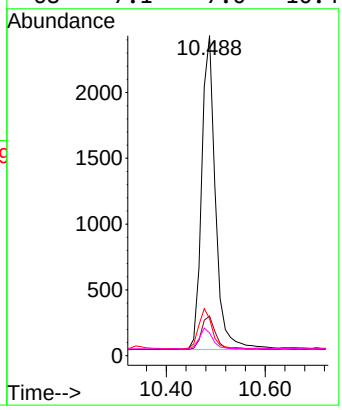


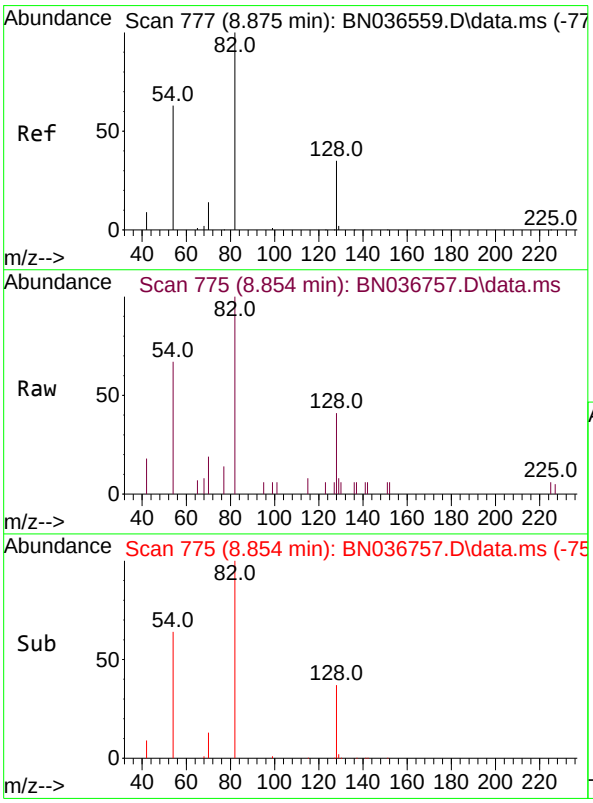
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.488 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:136 Resp: 4607

Ion	Ratio	Lower	Upper
136	100		
137	12.4	10.3	15.5
54	11.6	11.5	17.3
68	7.1	7.0	10.4

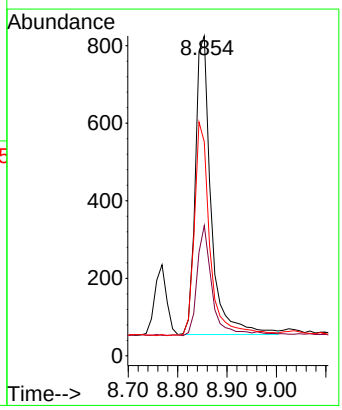


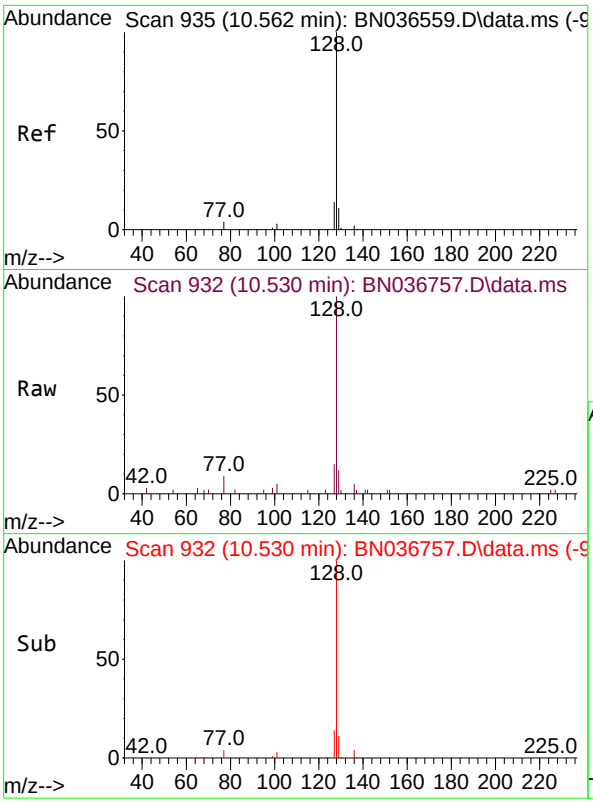


#8
Nitrobenzene-d5
Concen: 0.340 ng
RT: 8.854 min Scan# 775
Delta R.T. -0.021 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion: 82 Resp: 1705

Ion	Ratio	Lower	Upper
82	100		
128	40.7	30.6	45.8
54	66.9	52.2	78.4



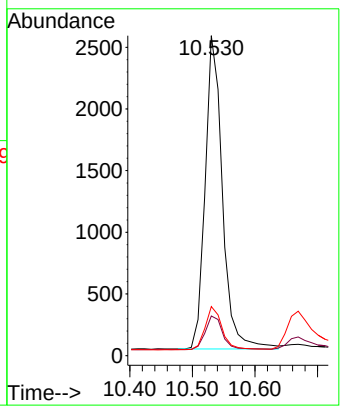


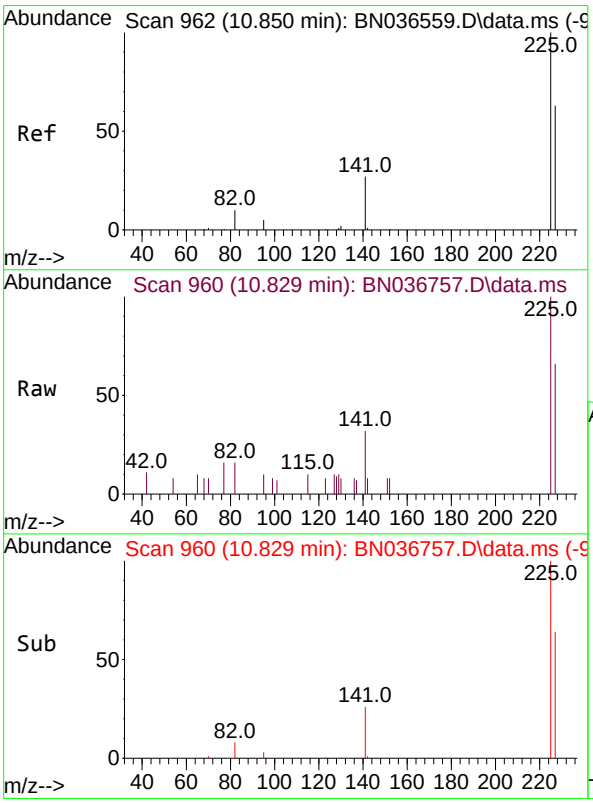
#9
Naphthalene
Concen: 0.359 ng
RT: 10.530 min Scan# 9
Delta R.T. -0.032 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:128 Resp: 4865

Ion	Ratio	Lower	Upper
128	100		
129	12.4	9.8	14.6
127	15.3	11.8	17.8

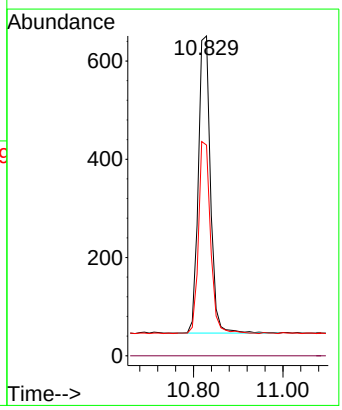


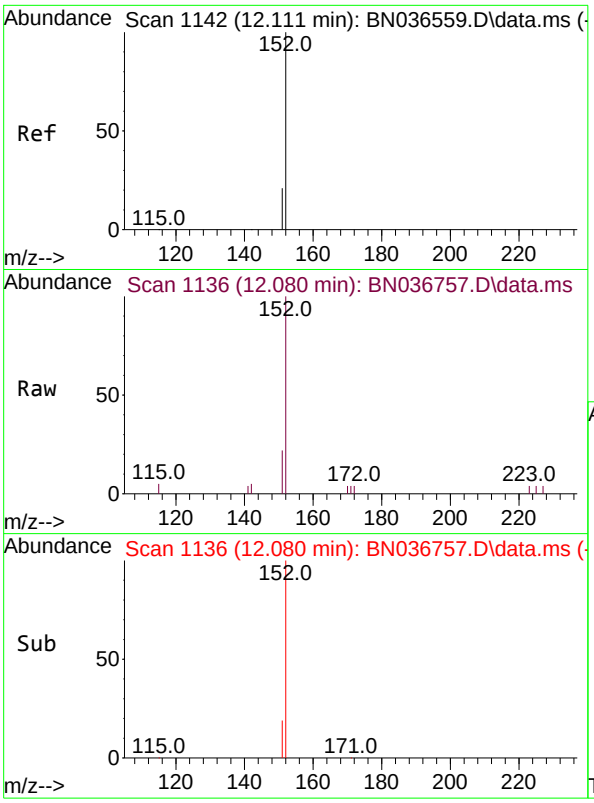


#10
Hexachlorobutadiene
Concen: 0.357 ng
RT: 10.829 min Scan# 960
Delta R.T. -0.021 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:225 Resp: 1140

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.3	51.8	77.8



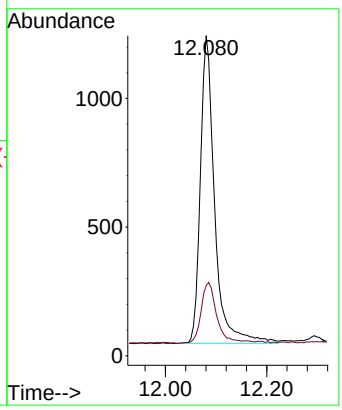


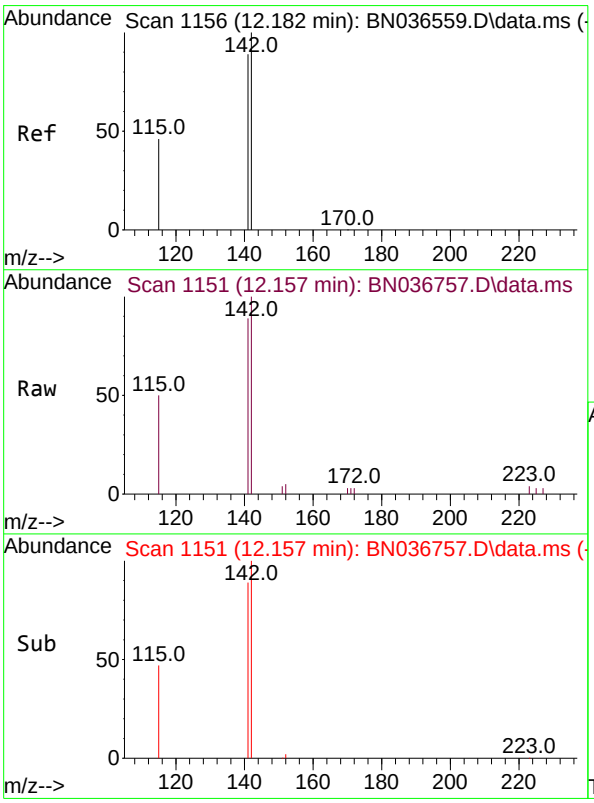
#11
2-Methylnaphthalene-d10
Concen: 0.342 ng
RT: 12.080 min Scan# 11
Delta R.T. -0.030 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 2347

Ion	Ratio	Lower	Upper
152	100		
151	21.6	17.0	25.6

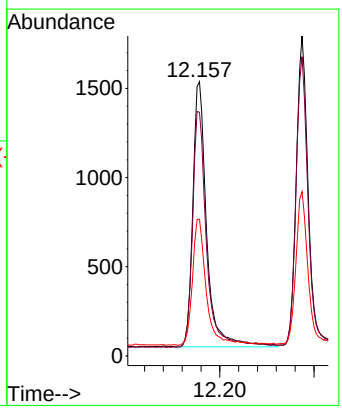


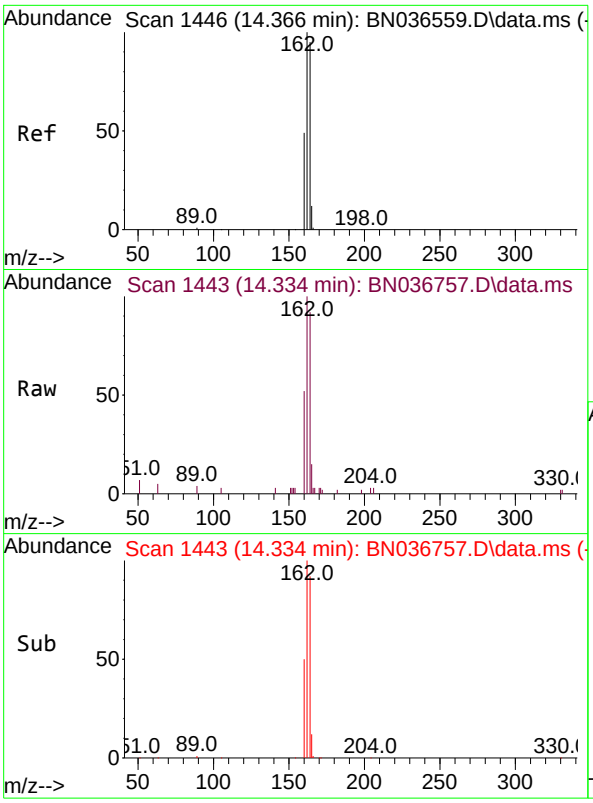


#12
2-Methylnaphthalene
Concen: 0.354 ng
RT: 12.157 min Scan# 1151
Delta R.T. -0.025 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:142 Resp: 3049

Ion	Ratio	Lower	Upper
142	100		
141	88.8	71.7	107.5
115	49.9	38.3	57.5



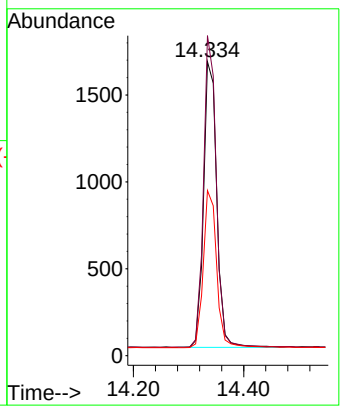


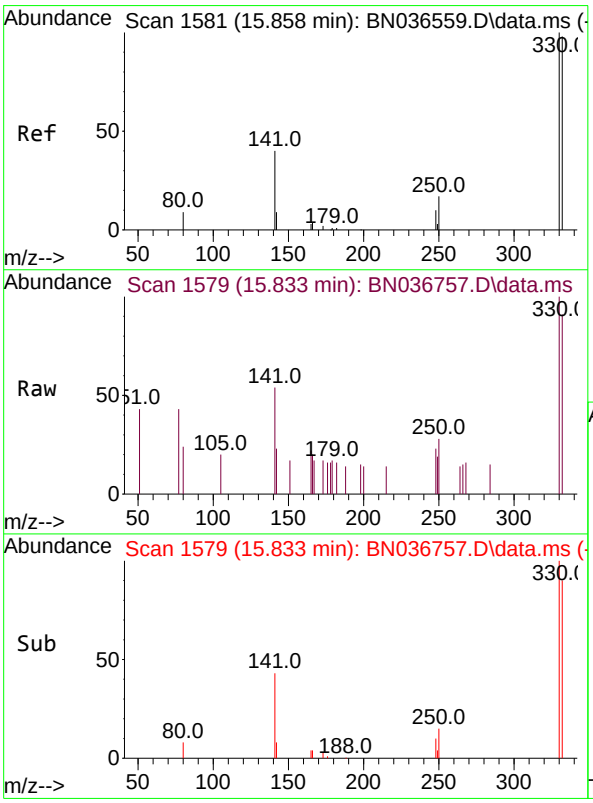
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:164 Resp: 2750

Ion	Ratio	Lower	Upper
164	100		
162	108.9	84.2	126.2
160	56.2	42.2	63.2

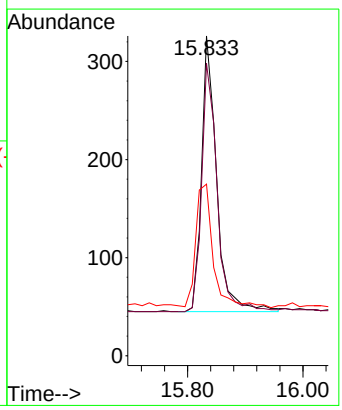


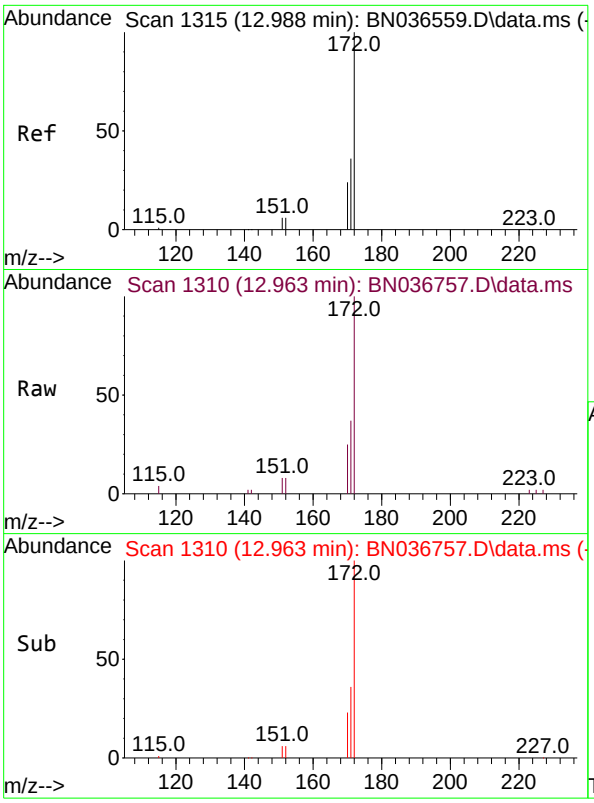


#14
2,4,6-Tribromophenol
Concen: 0.406 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.025 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:330 Resp: 507

Ion	Ratio	Lower	Upper
330	100		
332	92.9	75.2	112.8
141	52.3	43.4	65.2



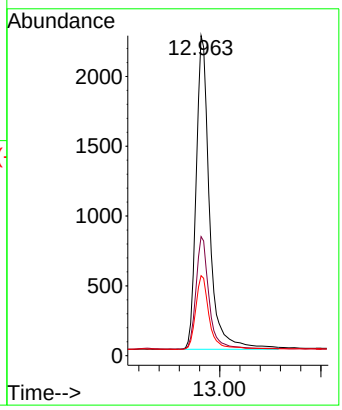


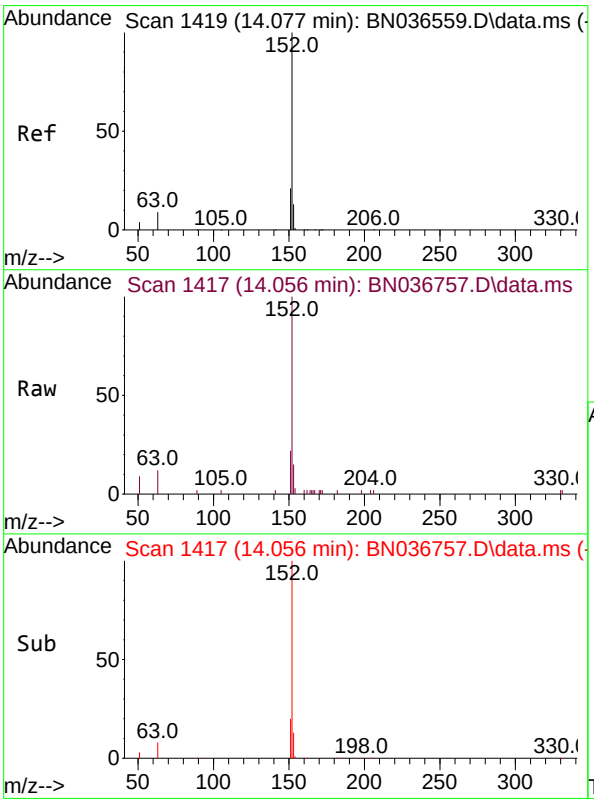
#15
2-Fluorobiphenyl
Concen: 0.346 ng
RT: 12.963 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:172 Resp: 5537

Ion	Ratio	Lower	Upper
172	100		
171	37.2	29.5	44.3
170	25.0	20.2	30.4

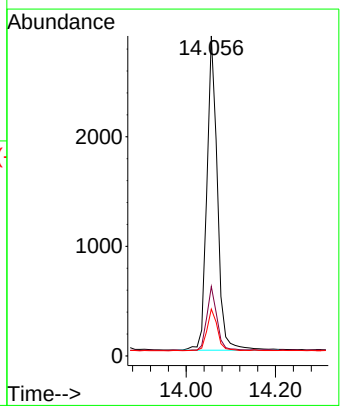


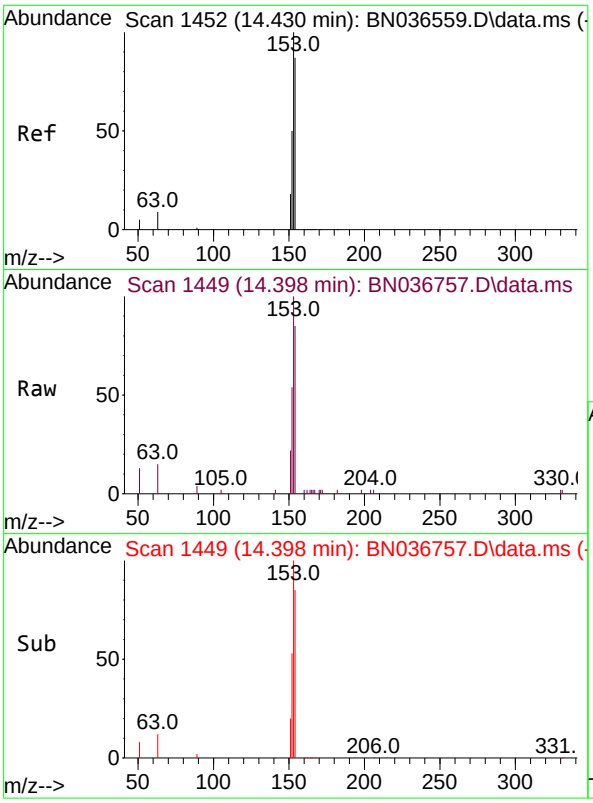


#16
Acenaphthylene
Concen: 0.361 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.021 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:152 Resp: 4680

Ion	Ratio	Lower	Upper
152	100		
151	19.7	16.2	24.4
153	13.4	10.6	15.8



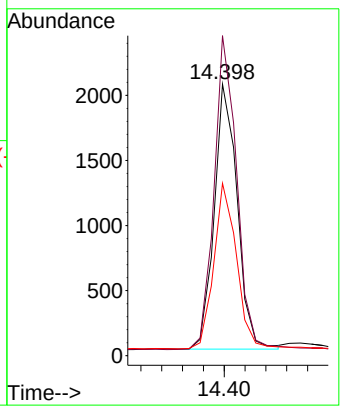


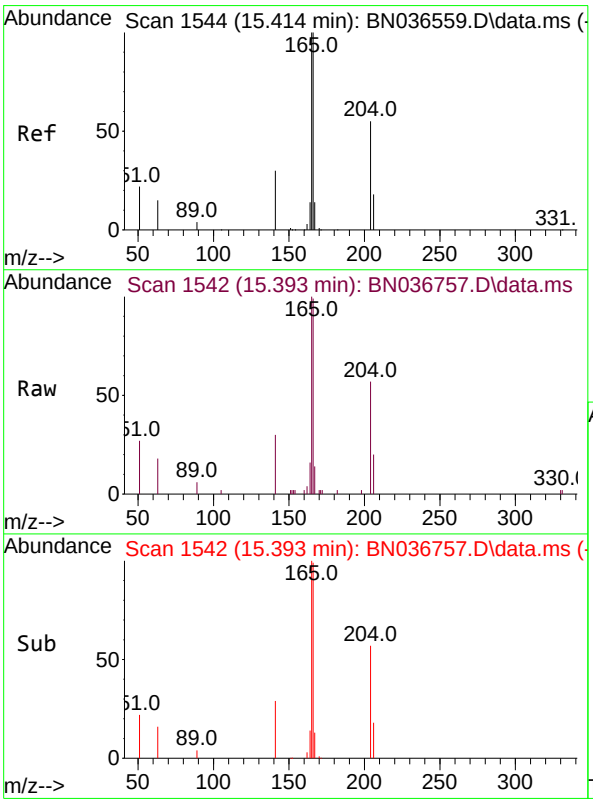
#17
Acenaphthene
Concen: 0.368 ng
RT: 14.398 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:154 Resp: 3124

Ion	Ratio	Lower	Upper
154	100		
153	117.8	94.1	141.1
152	62.6	49.8	74.6

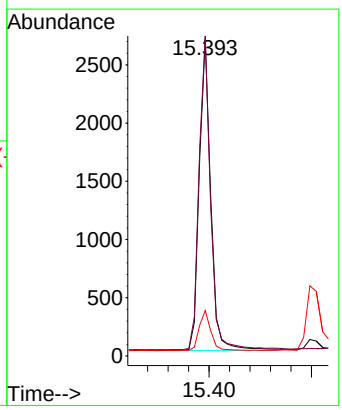


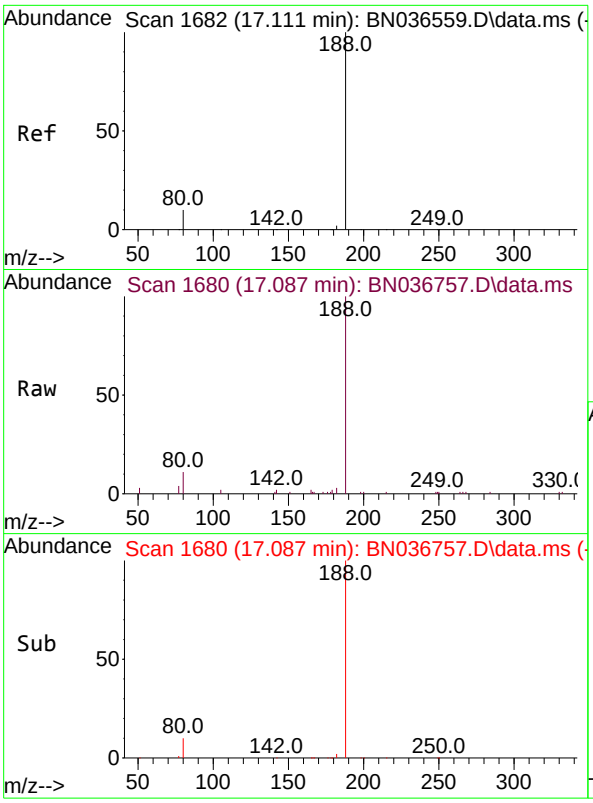


#18
Fluorene
Concen: 0.371 ng
RT: 15.393 min Scan# 1542
Delta R.T. -0.021 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:166 Resp: 4263

Ion	Ratio	Lower	Upper
166	100		
165	100.3	79.8	119.8
167	12.7	10.6	15.8



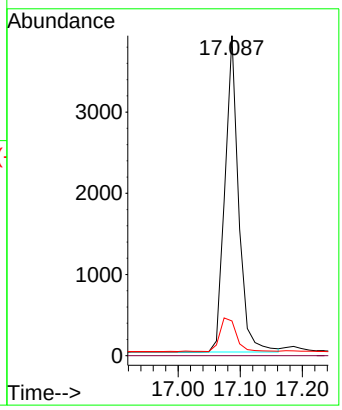


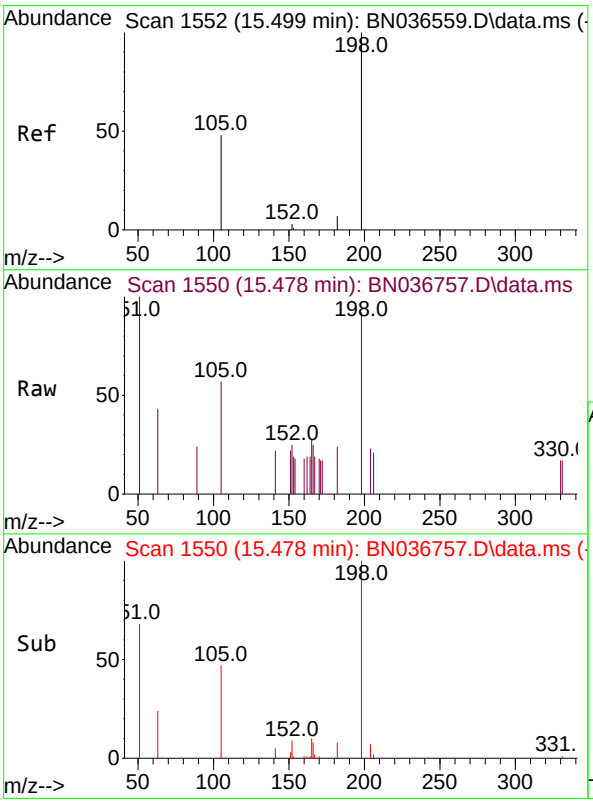
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.087 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:188 Resp: 5937

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.8	8.8	13.2

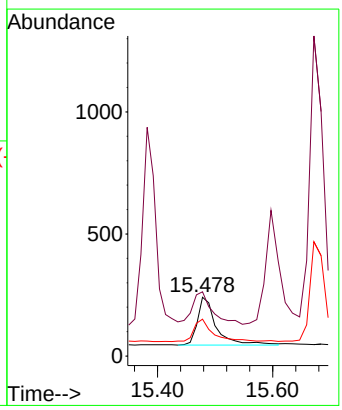


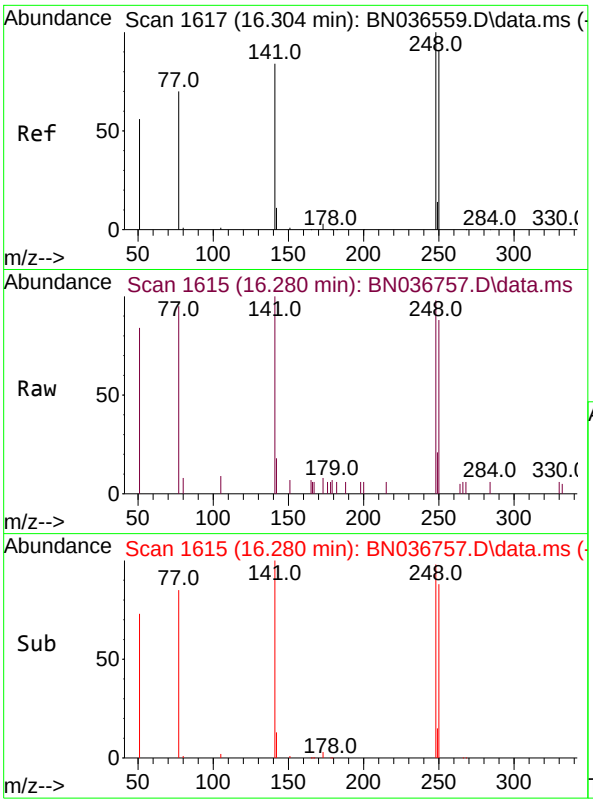


#20
4,6-Dinitro-2-methylphenol
Concen: 0.457 ng
RT: 15.478 min Scan# 1550
Delta R.T. -0.021 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:198 Resp: 472

Ion	Ratio	Lower	Upper
198	100		
51	109.1	107.9	161.9
105	62.7	56.2	84.2



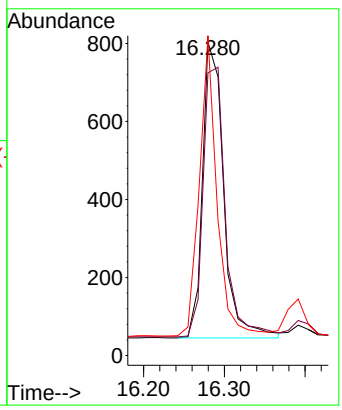


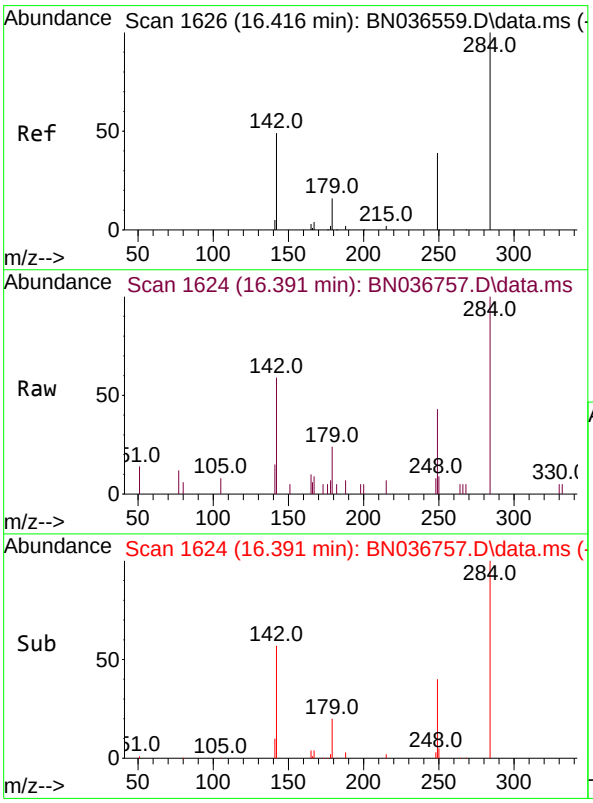
#21
4-Bromophenyl-phenylether
Concen: 0.372 ng
RT: 16.280 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:248 Resp: 1382

Ion	Ratio	Lower	Upper
248	100		
250	90.2	73.0	109.6
141	102.0	68.6	103.0

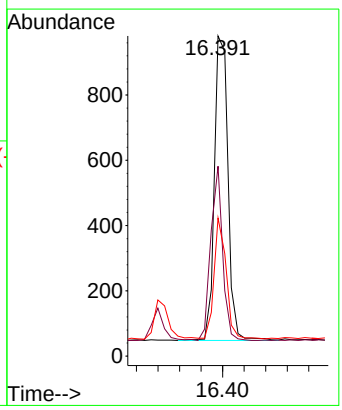


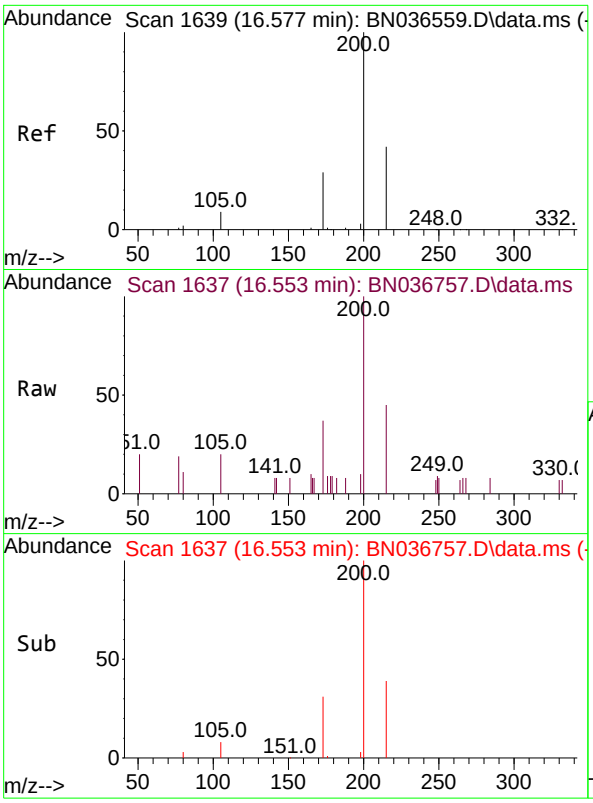


#22
Hexachlorobenzene
Concen: 0.364 ng
RT: 16.391 min Scan# 1624
Delta R.T. -0.025 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:284 Resp: 1636

Ion	Ratio	Lower	Upper
284	100		
142	49.6	37.0	55.4
249	35.2	28.1	42.1



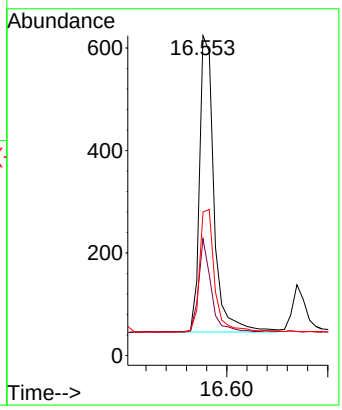


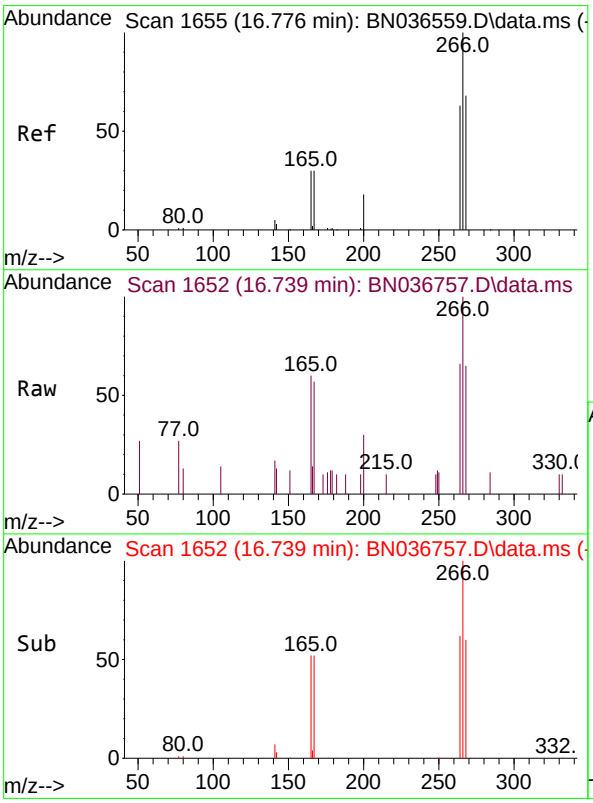
#23
Atrazine
Concen: 0.387 ng
RT: 16.553 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:200 Resp: 1154

Ion	Ratio	Lower	Upper
200	100		
173	36.5	27.3	40.9
215	44.9	36.8	55.2

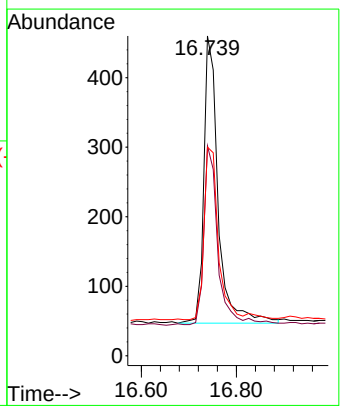


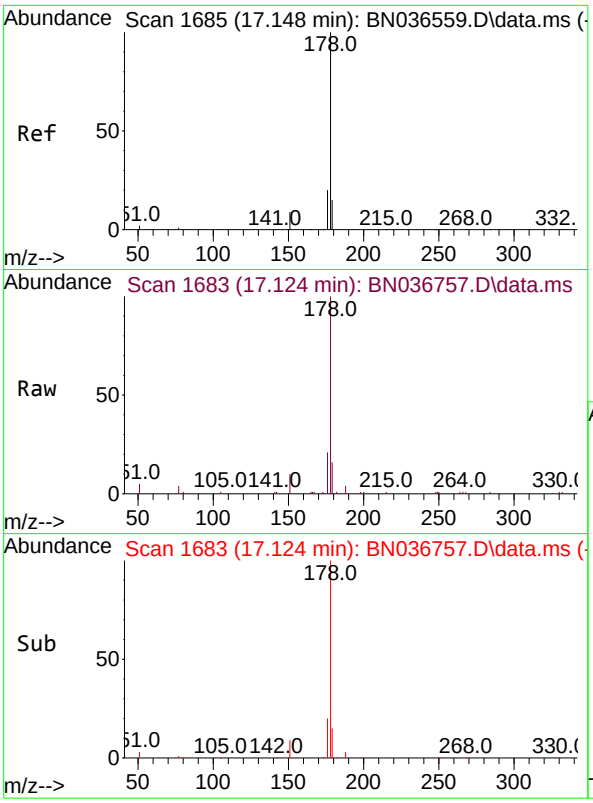


#24
Pentachlorophenol
Concen: 0.424 ng
RT: 16.739 min Scan# 1652
Delta R.T. -0.037 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:266 Resp: 868

Ion	Ratio	Lower	Upper
266	100		
264	62.2	49.6	74.4
268	59.4	50.9	76.3



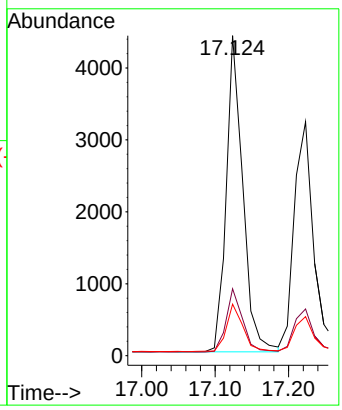


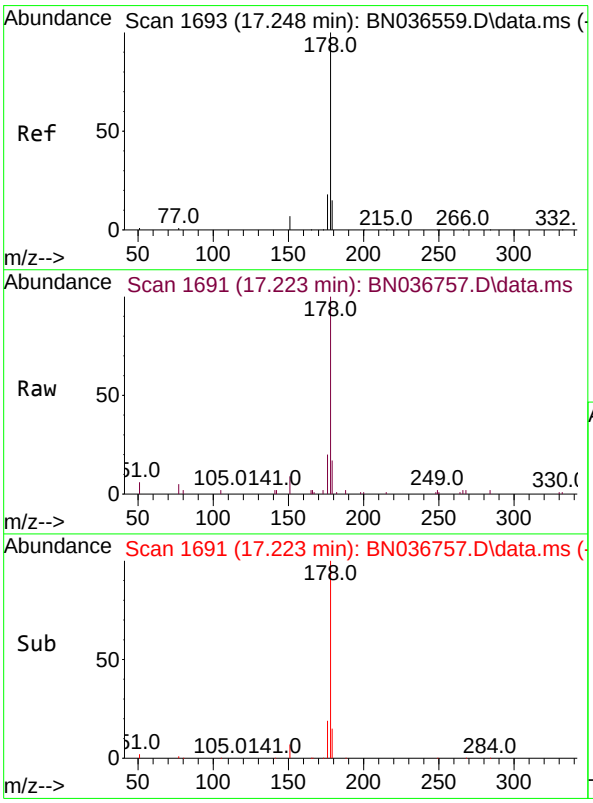
#25
Phenanthrene
Concen: 0.386 ng
RT: 17.124 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:178 Resp: 6866

Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.9	23.9
179	15.3	12.2	18.4

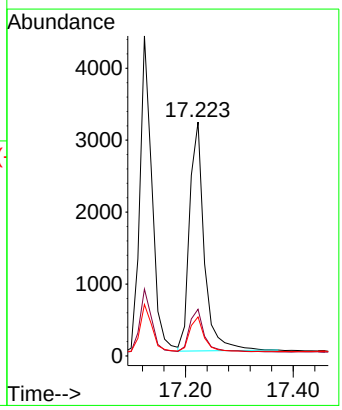


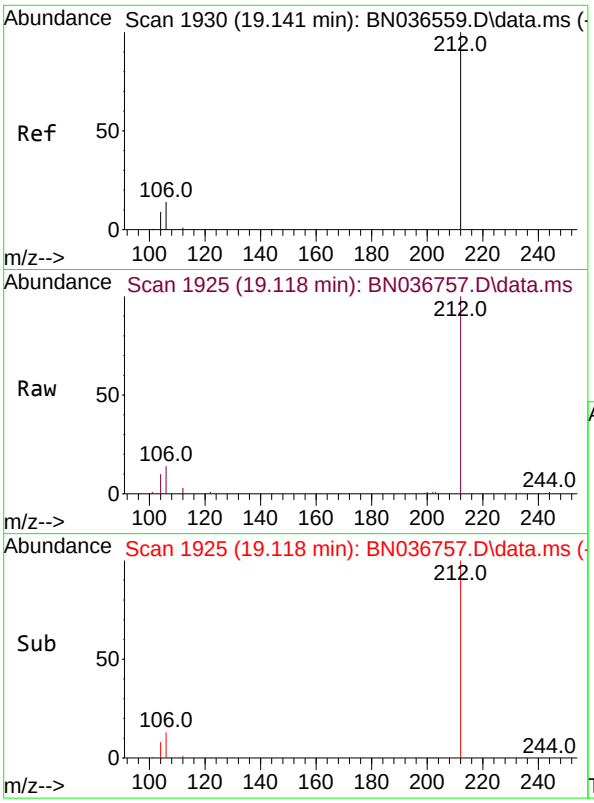


#26
Anthracene
Concen: 0.374 ng
RT: 17.223 min Scan# 1691
Delta R.T. -0.025 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:178 Resp: 6014

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.4	23.2
179	15.0	12.6	18.8



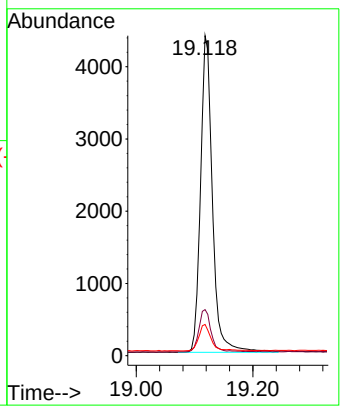


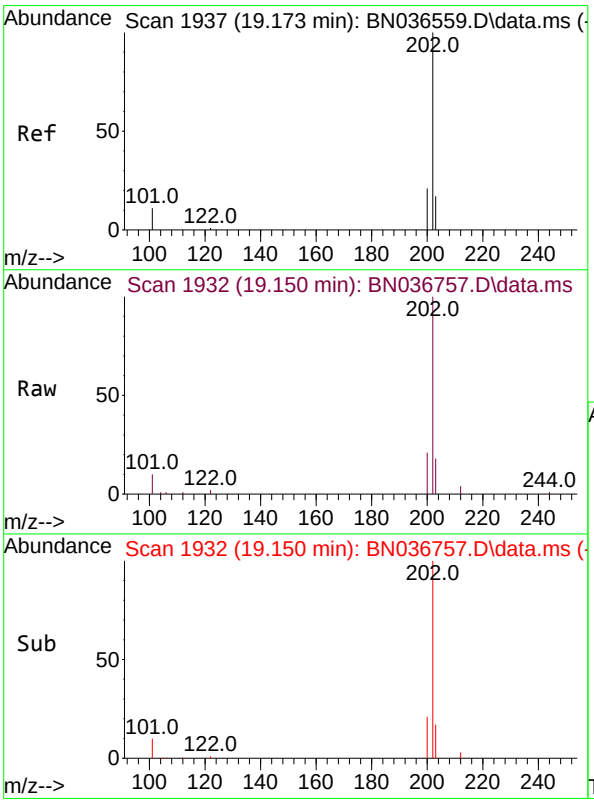
#27
Fluoranthene-d10
Concen: 0.411 ng
RT: 19.118 min Scan# 1
Delta R.T. -0.023 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:212 Resp: 6252

Ion	Ratio	Lower	Upper
212	100		
106	13.6	11.8	17.6
104	8.6	7.3	10.9

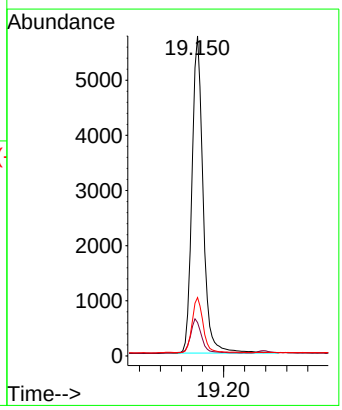


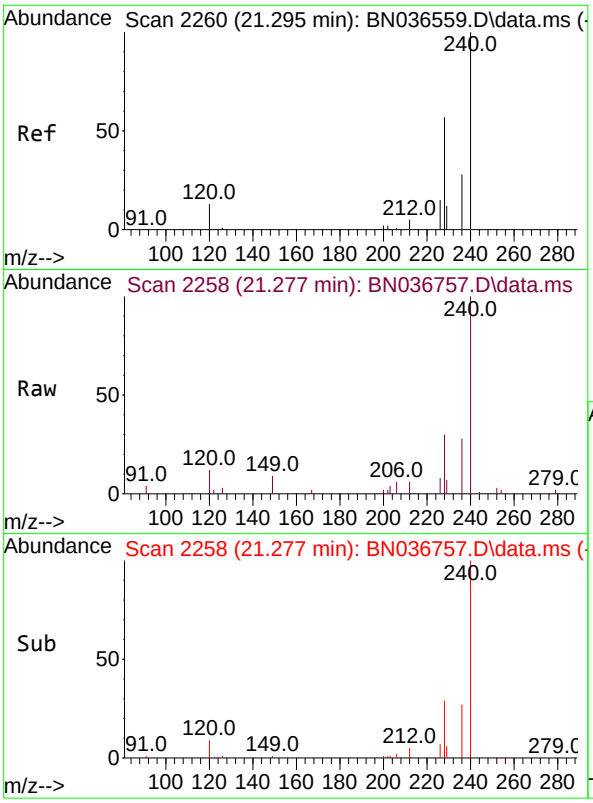


#28
Fluoranthene
Concen: 0.424 ng
RT: 19.150 min Scan# 1932
Delta R.T. -0.023 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:202 Resp: 8476

Ion	Ratio	Lower	Upper
202	100		
101	11.0	9.4	14.0
203	17.2	13.5	20.3



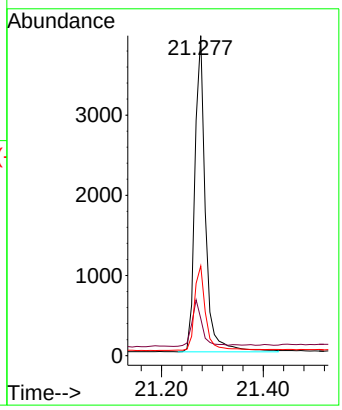


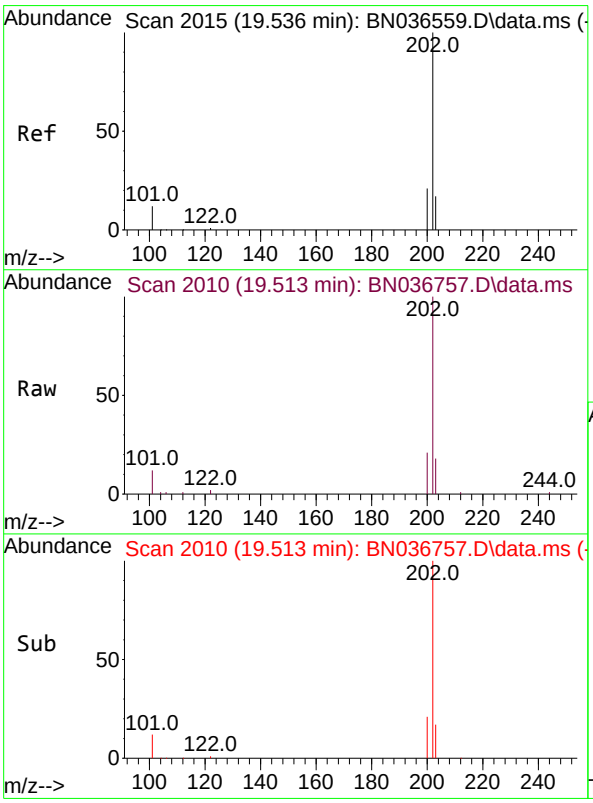
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:240 Resp: 5680

Ion	Ratio	Lower	Upper
240	100		
120	11.6	14.6	22.0#
236	28.0	24.1	36.1

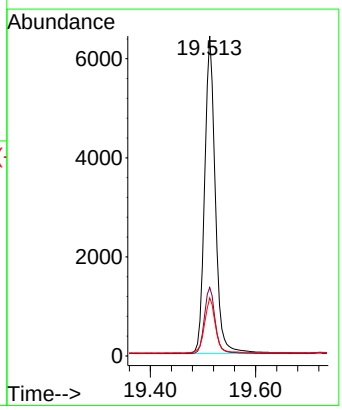


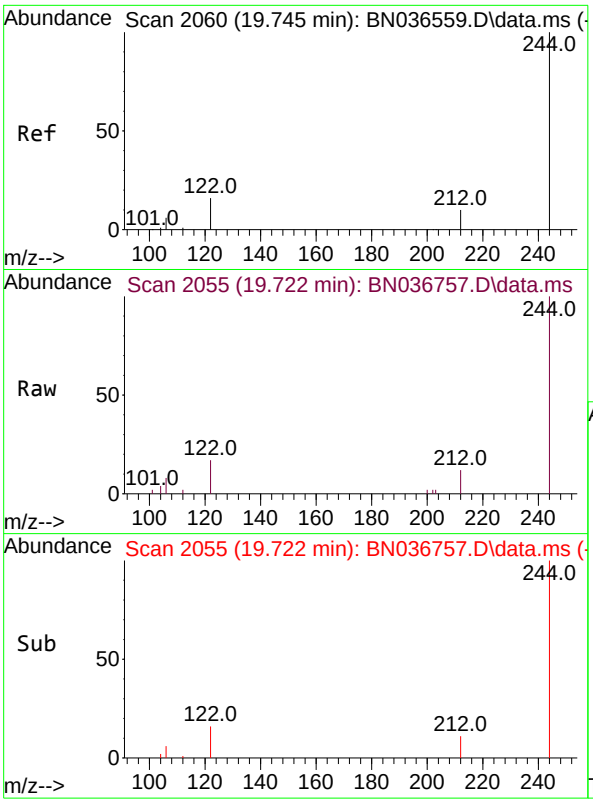


#30
Pyrene
Concen: 0.325 ng
RT: 19.513 min Scan# 2010
Delta R.T. -0.023 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:202 Resp: 9024

Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.1	25.7
203	17.5	14.1	21.1



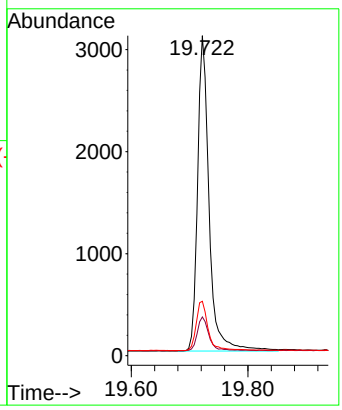


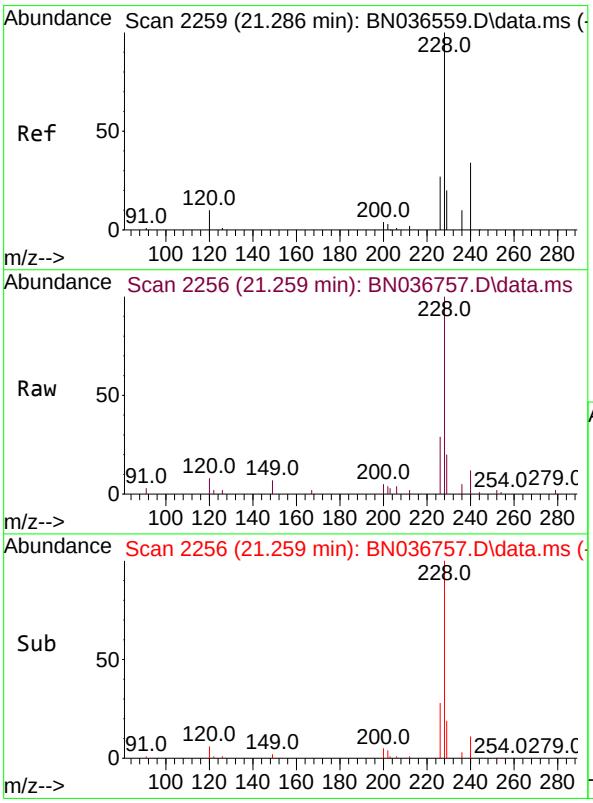
#31
Terphenyl-d14
Concen: 0.313 ng
RT: 19.722 min Scan# 2
Delta R.T. -0.023 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:244 Resp: 4254

Ion	Ratio	Lower	Upper
244	100		
212	12.1	9.6	14.4
122	17.0	13.9	20.9

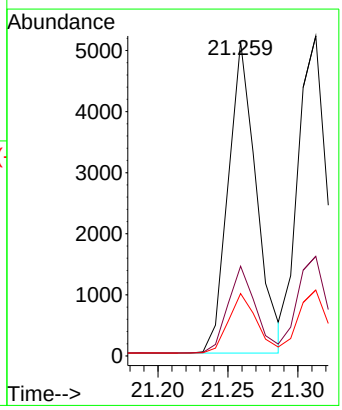


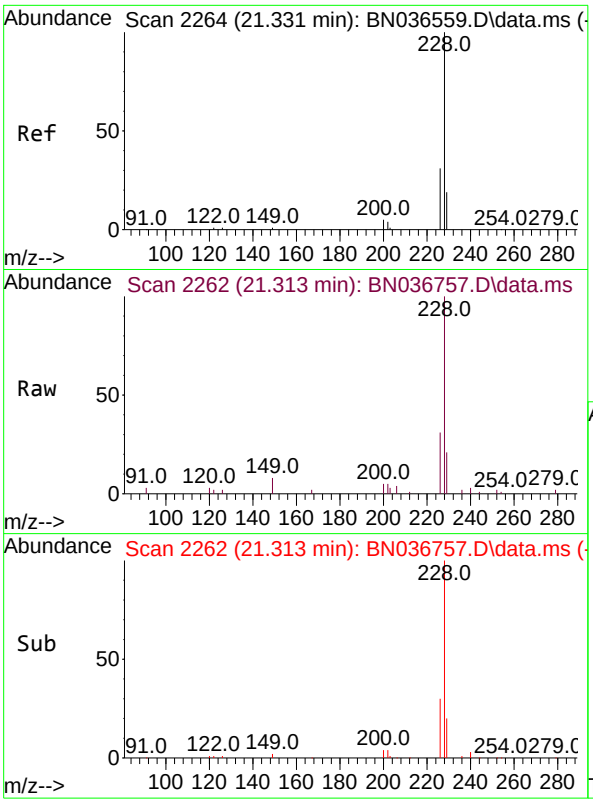


#32
Benzo(a)anthracene
Concen: 0.362 ng
RT: 21.259 min Scan# 2256
Delta R.T. -0.027 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:228 Resp: 7146

Ion	Ratio	Lower	Upper
228	100		
226	28.5	22.5	33.7
229	19.8	16.6	25.0



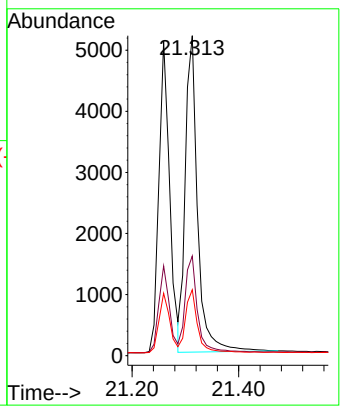


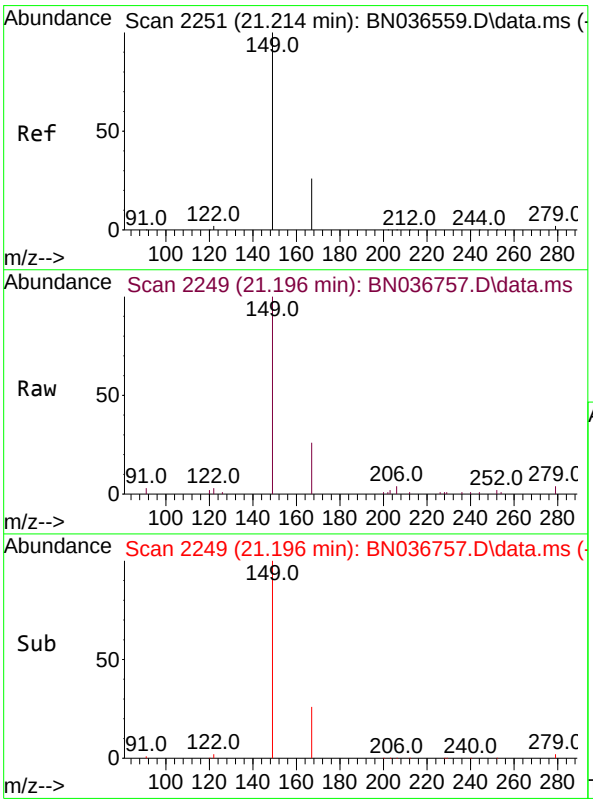
#33
Chrysene
Concen: 0.383 ng
RT: 21.313 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:228 Resp: 8272

Ion	Ratio	Lower	Upper
228	100		
226	31.1	25.3	37.9
229	20.6	15.8	23.8

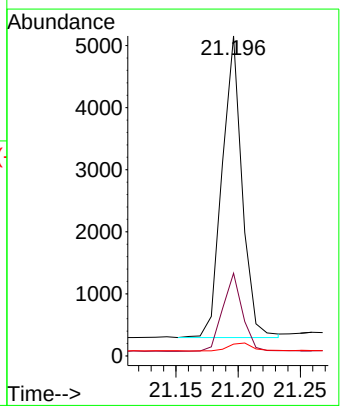


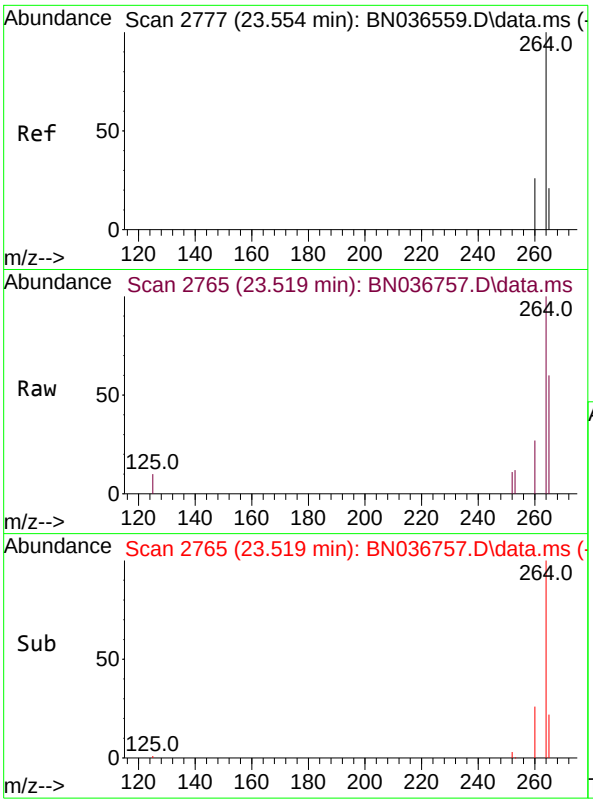


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.386 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:149 Resp: 5431

Ion	Ratio	Lower	Upper
149	100		
167	25.8	20.7	31.1
279	3.4	3.6	5.4#



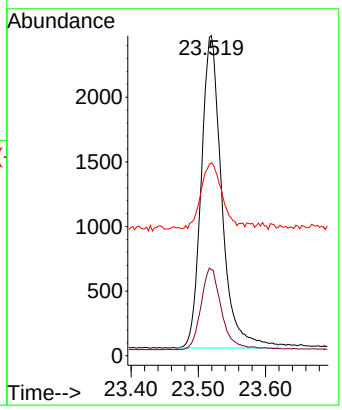


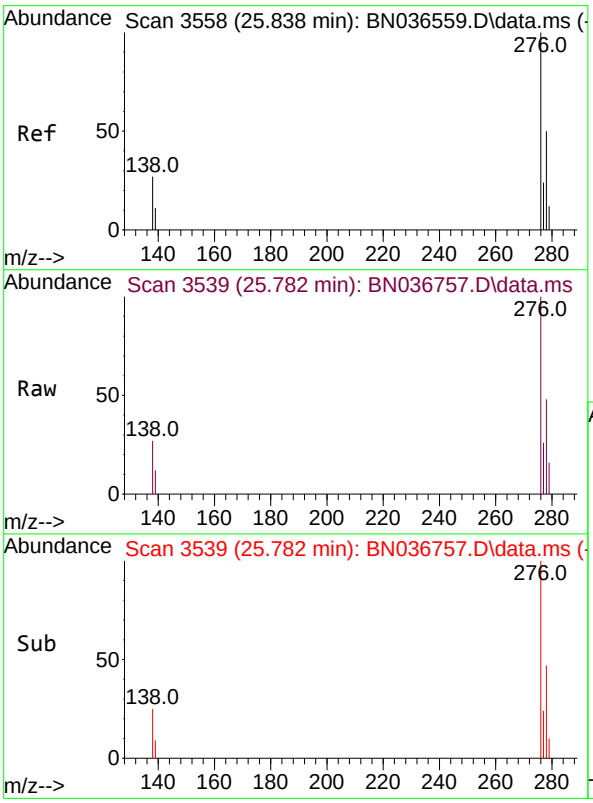
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.519 min Scan# 2
Delta R.T. -0.035 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:264 Resp: 5140

Ion	Ratio	Lower	Upper
264	100		
260	26.8	22.6	33.8
265	60.3	88.1	132.1#

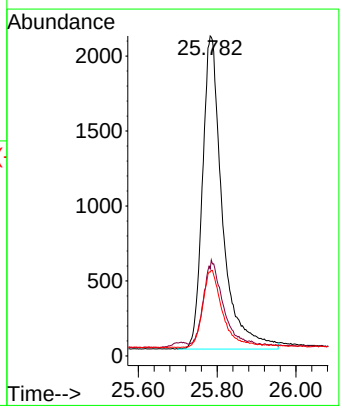


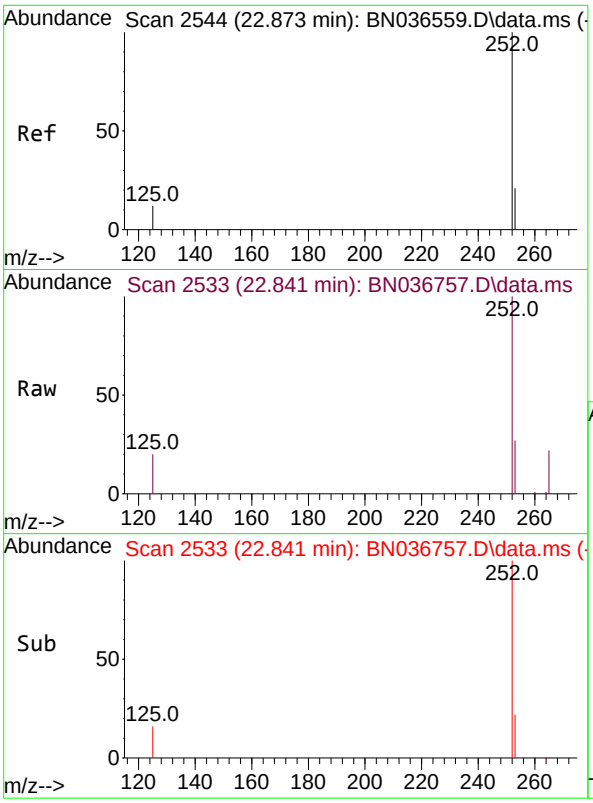


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.394 ng
RT: 25.782 min Scan# 3539
Delta R.T. -0.055 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:276 Resp: 7314

Ion	Ratio	Lower	Upper
276	100		
138	24.9	23.4	35.2
277	24.6	20.0	30.0



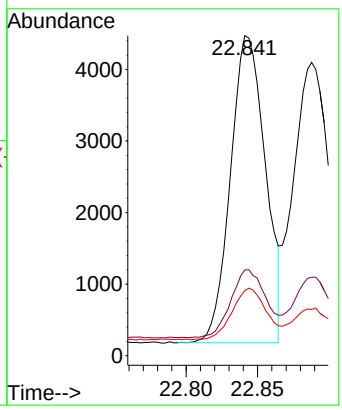


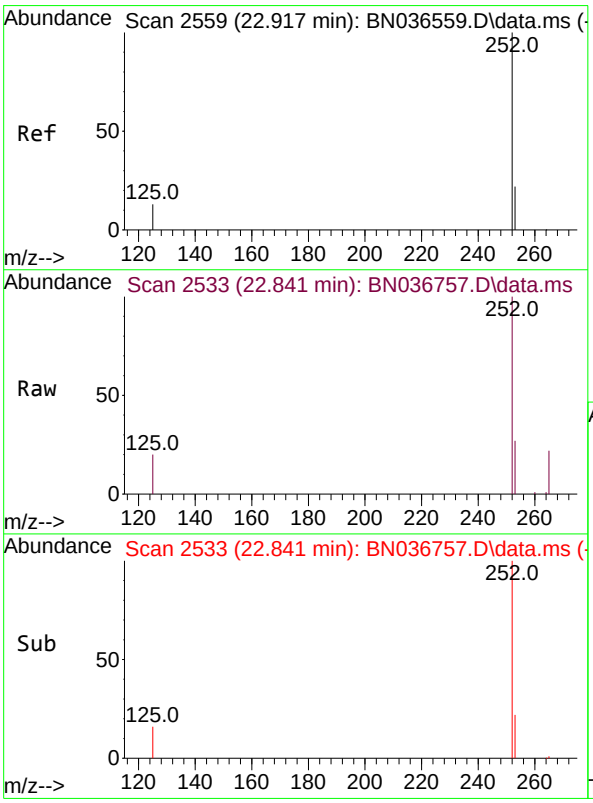
#37
Benzo(b)fluoranthene
Concen: 0.390 ng
RT: 22.841 min Scan# 2
Delta R.T. -0.032 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 7293

Ion	Ratio	Lower	Upper
252	100		
253	26.8	23.9	35.9
125	20.4	17.4	26.2

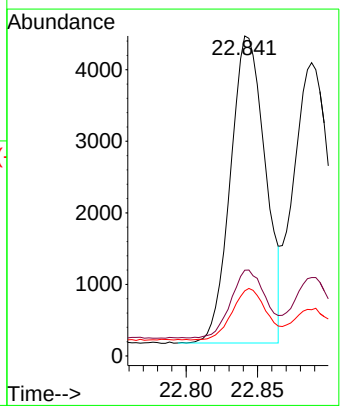


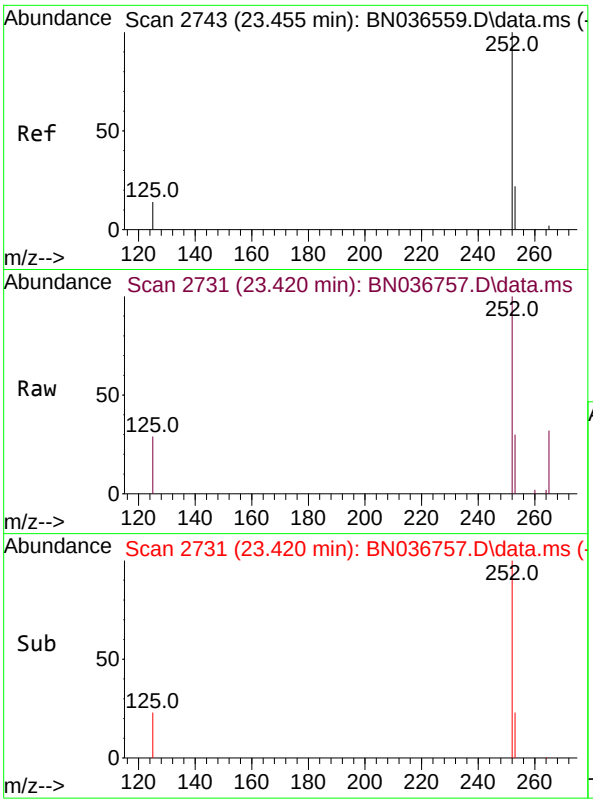


#38
Benzo(k)fluoranthene
Concen: 0.372 ng
RT: 22.841 min Scan# 2533
Delta R.T. -0.076 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:252 Resp: 7293

Ion	Ratio	Lower	Upper
252	100		
253	26.8	24.6	36.8
125	20.4	17.8	26.8



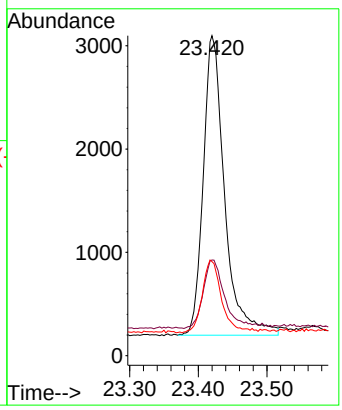


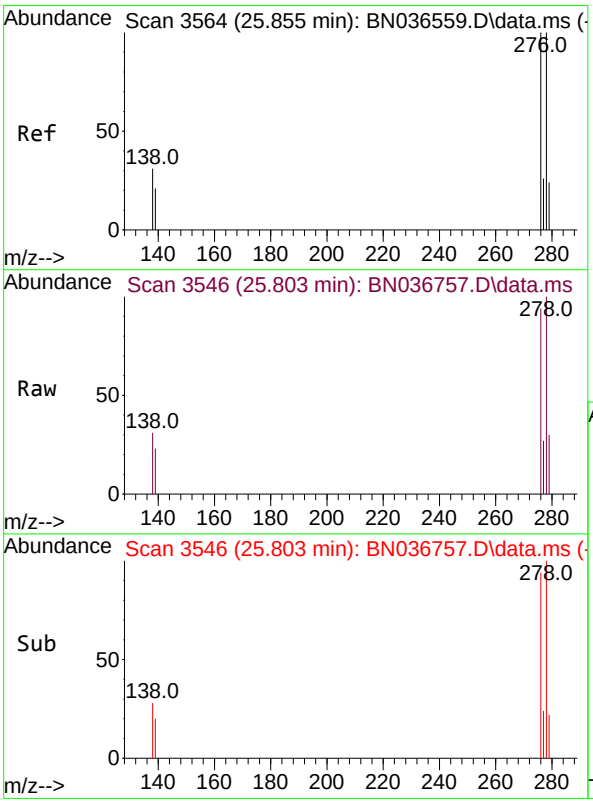
#39
Benzo(a)pyrene
Concen: 0.399 ng
RT: 23.420 min Scan# 2
Delta R.T. -0.035 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 6291

Ion	Ratio	Lower	Upper
252	100		
253	29.9	27.8	41.8
125	29.4	22.7	34.1

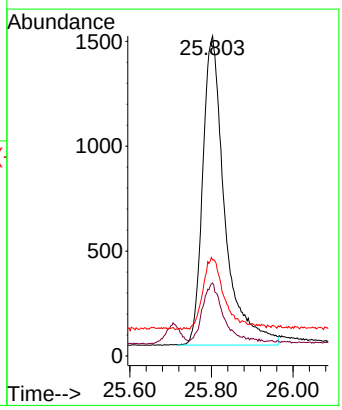


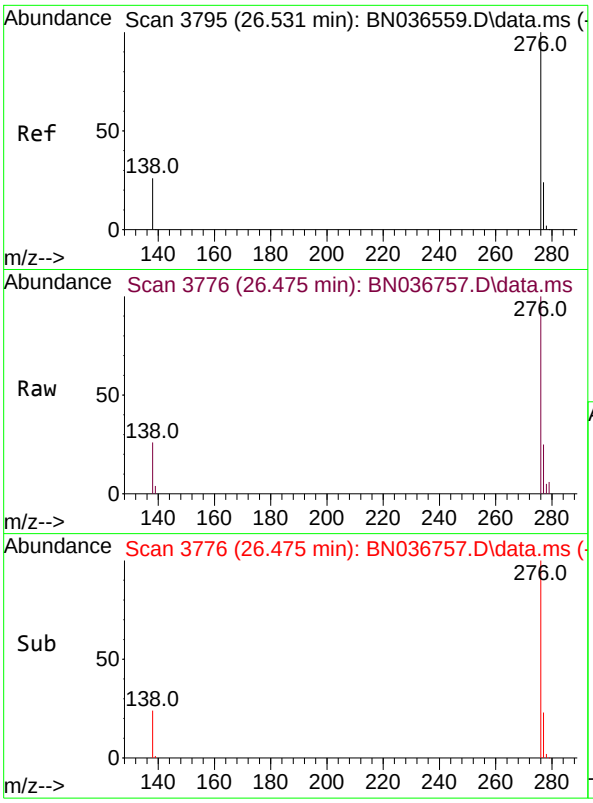


#40
Dibenzo(a,h)anthracene
Concen: 0.382 ng
RT: 25.803 min Scan# 3546
Delta R.T. -0.052 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:278 Resp: 5522

Ion	Ratio	Lower	Upper
278	100		
139	22.8	20.8	31.2
279	30.0	28.8	43.2



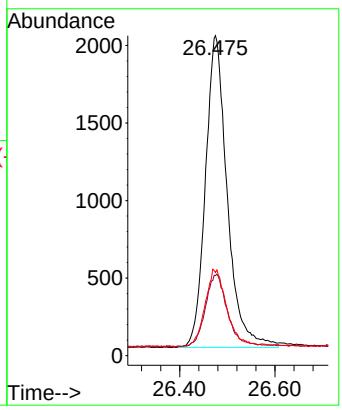


#41
Benzo(g,h,i)perylene
Concen: 0.386 ng
RT: 26.475 min Scan# 3
Delta R.T. -0.055 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:276 Resp: 6376

Ion	Ratio	Lower	Upper
276	100		
277	25.1	22.2	33.4
138	26.0	24.1	36.1



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036771.D
Acq On : 28 Mar 2025 13:58
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Mar 28 14:23:03 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

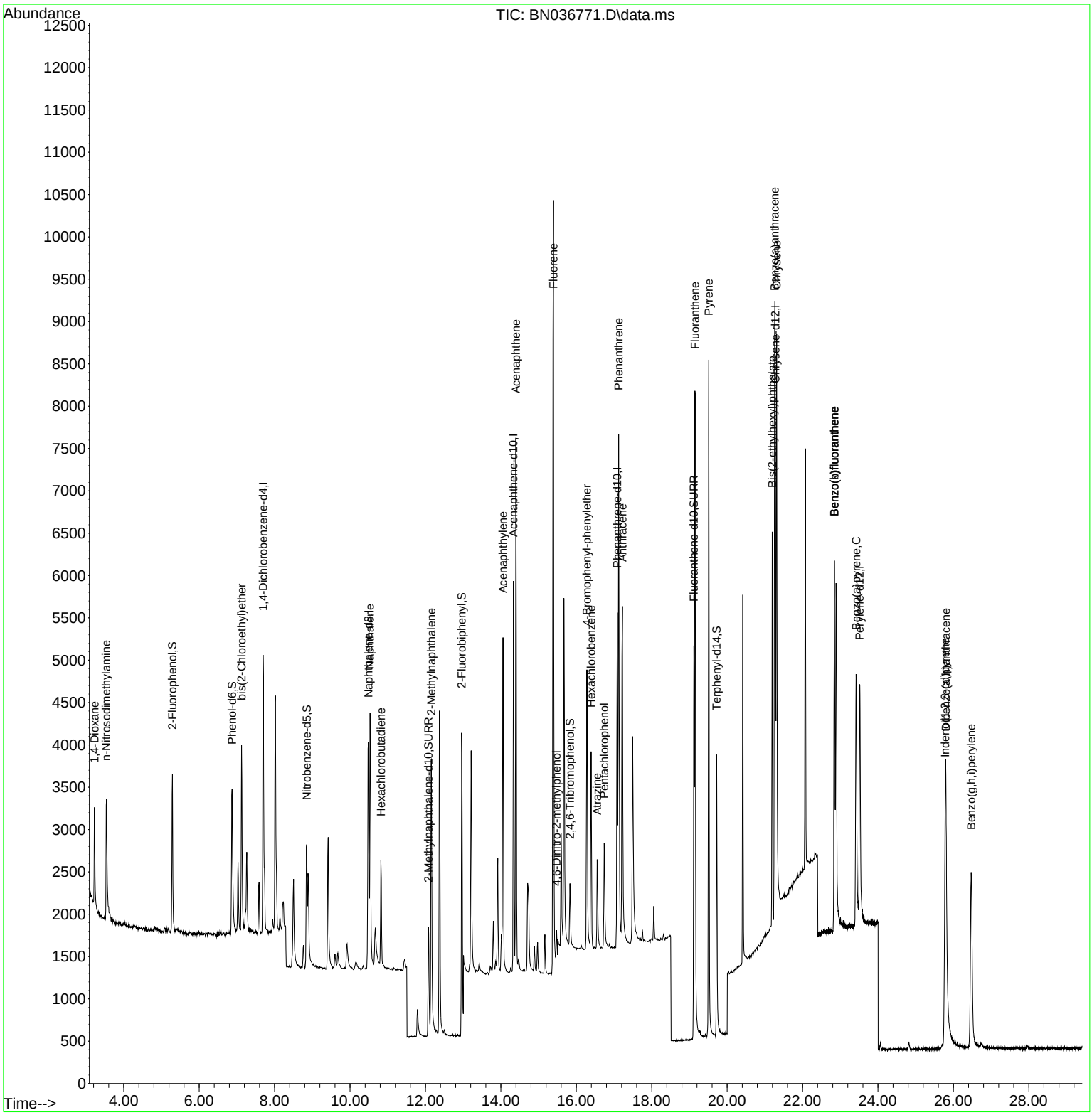
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.695	152	1636	0.400	ng		-0.03
7) Naphthalene-d8	10.487	136	4177	0.400	ng		#-0.02
13) Acenaphthene-d10	14.334	164	2615	0.400	ng		-0.03
19) Phenanthrene-d10	17.086	188	5571	0.400	ng		-0.02
29) Chrysene-d12	21.277	240	4555	0.400	ng		#-0.02
35) Perylene-d12	23.516	264	4167	0.400	ng		#-0.04
System Monitoring Compounds							
4) 2-Fluorophenol	5.290	112	1384	0.363	ng		-0.02
5) Phenol-d6	6.872	99	1653	0.351	ng		-0.03
8) Nitrobenzene-d5	8.854	82	1480	0.326	ng		-0.02
11) 2-Methylnaphthalene-d10	12.080	152	2256	0.363	ng		-0.03
14) 2,4,6-Tribromophenol	15.833	330	464	0.391	ng		-0.02
15) 2-Fluorobiphenyl	12.963	172	5285	0.347	ng		-0.03
27) Fluoranthene-d10	19.118	212	5637	0.395	ng		-0.02
31) Terphenyl-d14	19.722	244	3716	0.341	ng		-0.02
Target Compounds							Qvalue
2) 1,4-Dioxane	3.225	88	752	0.414	ng		97
3) n-Nitrosodimethylamine	3.535	42	1423	0.388	ng		97
6) bis(2-Chloroethyl)ether	7.125	93	1671	0.343	ng		98
9) Naphthalene	10.530	128	4359	0.355	ng		98
10) Hexachlorobutadiene	10.818	225	1044	0.361	ng	#	99
12) 2-Methylnaphthalene	12.156	142	2874	0.368	ng		98
16) Acenaphthylene	14.056	152	4358	0.353	ng		99
17) Acenaphthene	14.398	154	2946	0.365	ng		100
18) Fluorene	15.393	166	4111	0.376	ng		98
20) 4,6-Dinitro-2-methylph...	15.478	198	428	0.446	ng		87
21) 4-Bromophenyl-phenylether	16.280	248	1300	0.372	ng		96
22) Hexachlorobenzene	16.391	284	1537	0.365	ng		96
23) Atrazine	16.553	200	1063	0.380	ng		97
24) Pentachlorophenol	16.739	266	702	0.365	ng		95
25) Phenanthrene	17.124	178	6367	0.381	ng		99
26) Anthracene	17.223	178	5569	0.369	ng		100
28) Fluoranthene	19.150	202	7617	0.406	ng		99
30) Pyrene	19.513	202	7795	0.350	ng		99
32) Benzo(a)anthracene	21.259	228	5566	0.351	ng		99
33) Chrysene	21.313	228	6726	0.389	ng		99
34) Bis(2-ethylhexyl)phtha...	21.196	149	3968	0.352	ng	#	99
36) Indeno(1,2,3-cd)pyrene	25.782	276	5233	0.348	ng		96
37) Benzo(b)fluoranthene	22.844	252	5720	0.377	ng		97
38) Benzo(k)fluoranthene	22.844	252	5720	0.360	ng		96
39) Benzo(a)pyrene	23.420	252	4867	0.381	ng		96
40) Dibenzo(a,h)anthracene	25.800	278	3914	0.334	ng		96
41) Benzo(g,h,i)perylene	26.475	276	4758	0.355	ng		95

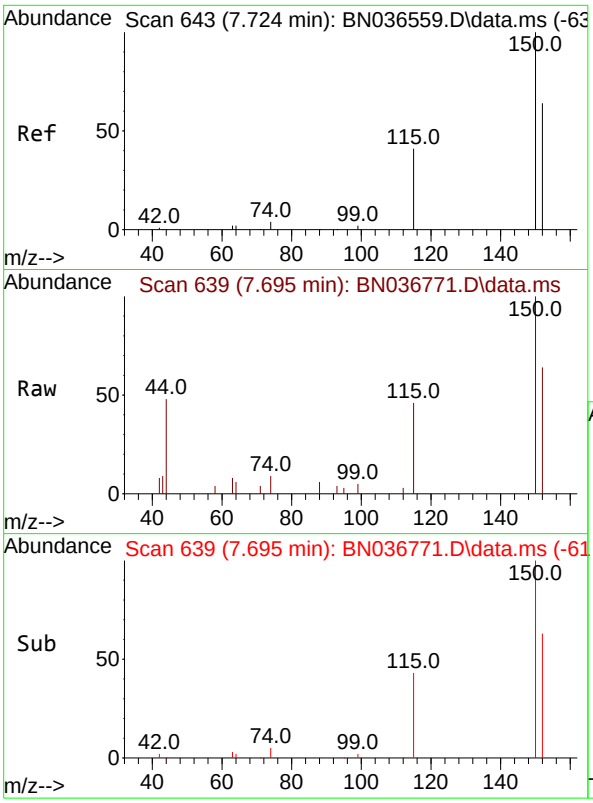
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036771.D
Acq On : 28 Mar 2025 13:58
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Mar 28 14:23:03 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



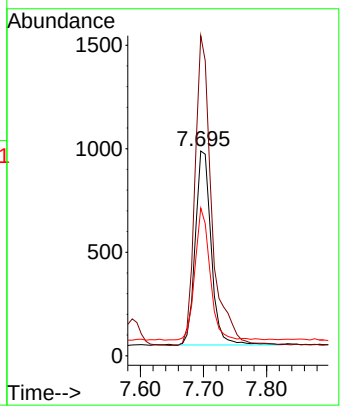


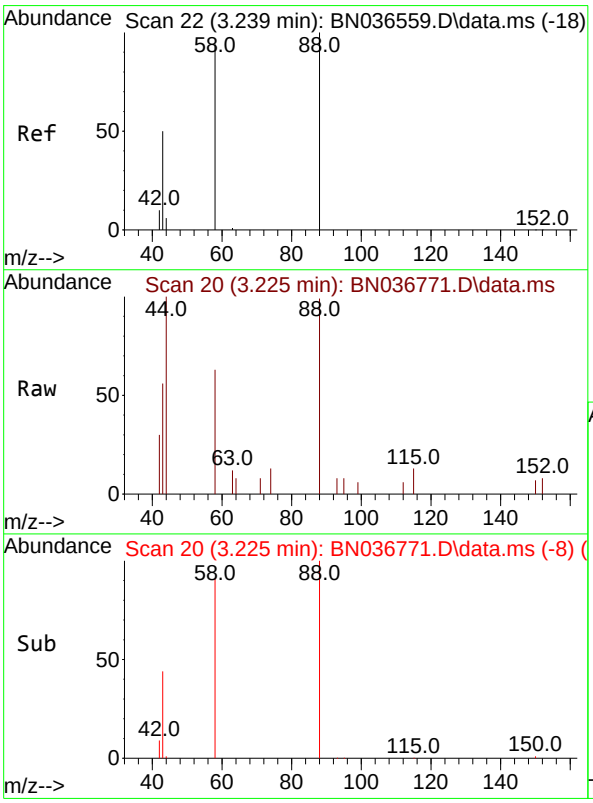
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.695 min Scan# 6
Delta R.T. -0.029 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 1636

Ion	Ratio	Lower	Upper
152	100		
150	156.3	123.7	185.5
115	72.2	54.3	81.5

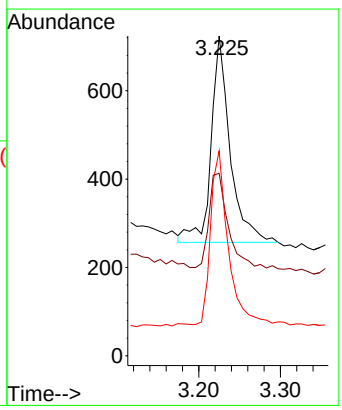


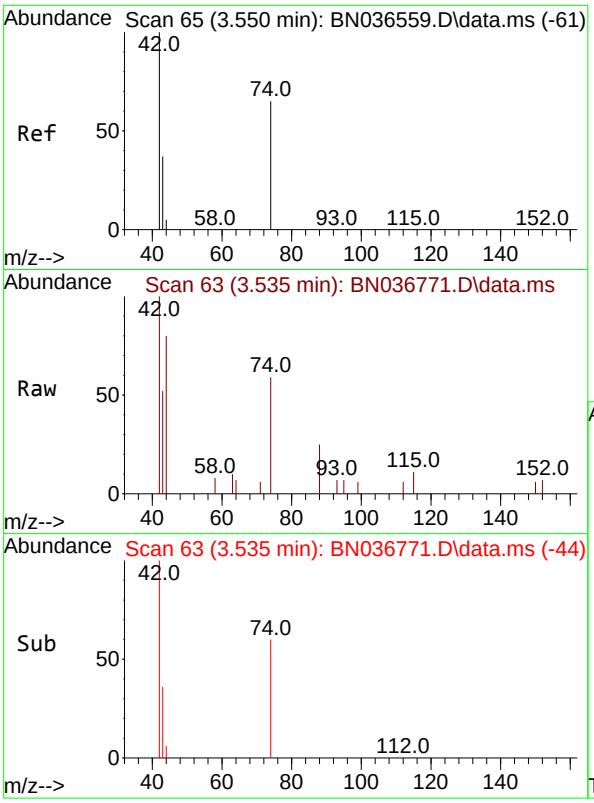


#2
1,4-Dioxane
Concen: 0.414 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion: 88 Resp: 752

Ion	Ratio	Lower	Upper
88	100		
43	47.5	37.8	56.8
58	80.9	67.4	101.2



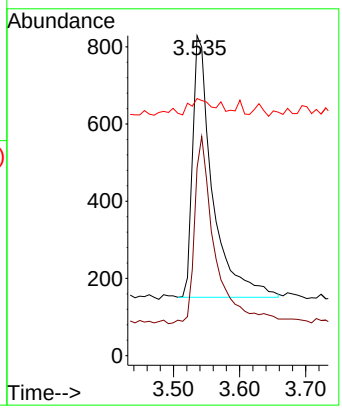


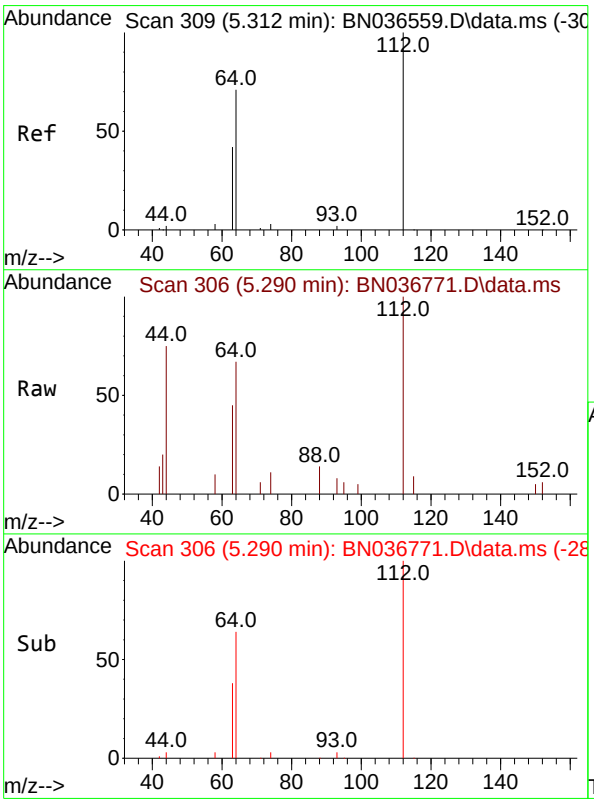
#3
n-Nitrosodimethylamine
Concen: 0.388 ng
RT: 3.535 min Scan# 6
Delta R.T. -0.014 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 42 Resp: 1423

Ion	Ratio	Lower	Upper
42	100		
74	72.9	60.6	90.8
44	6.7	6.3	9.5

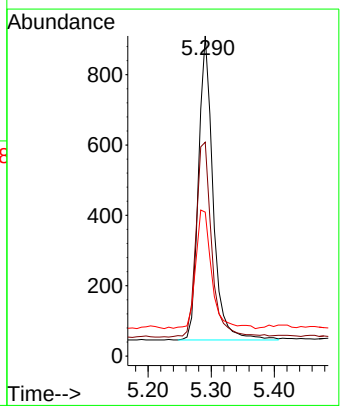


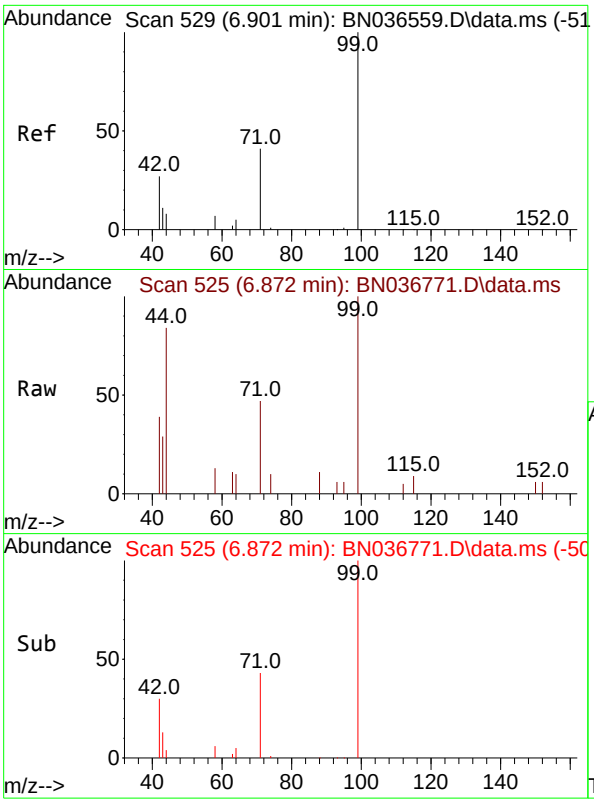


#4
2-Fluorophenol
Concen: 0.363 ng
RT: 5.290 min Scan# 306
Delta R.T. -0.022 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:112 Resp: 1384

Ion	Ratio	Lower	Upper
112	100		
64	69.4	53.1	79.7
63	42.8	31.8	47.8



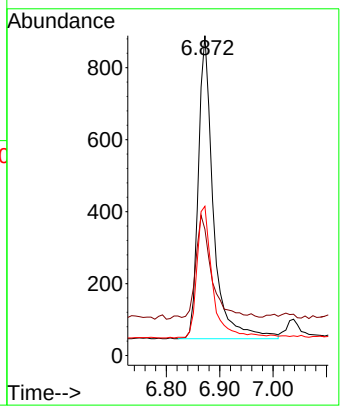


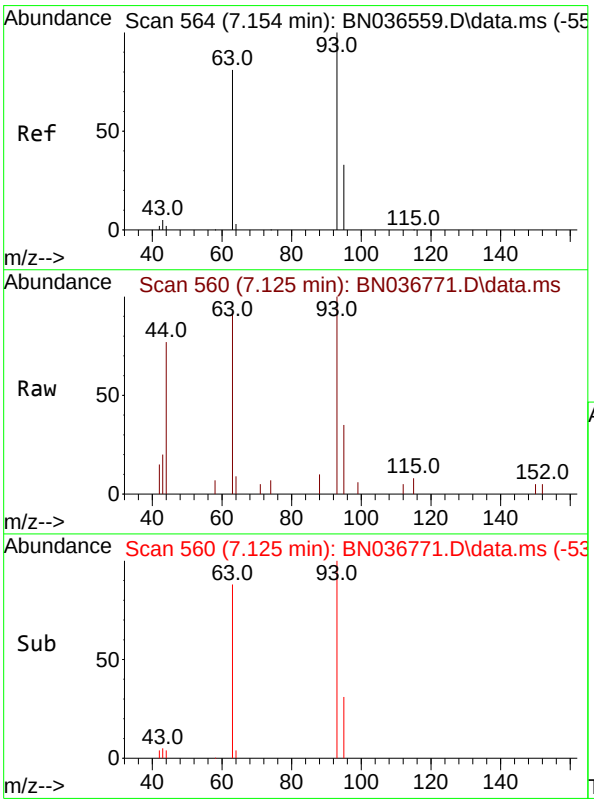
#5
Phenol-d6
Concen: 0.351 ng
RT: 6.872 min Scan# 5
Delta R.T. -0.029 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 99 Resp: 1653

Ion	Ratio	Lower	Upper
99	100		
42	37.9	26.5	39.7
71	45.1	34.1	51.1

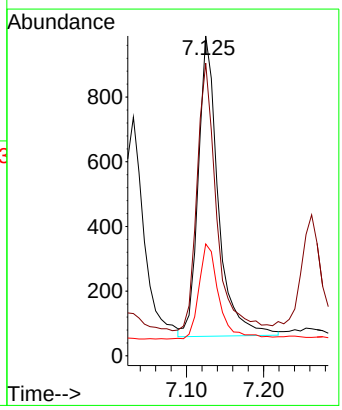


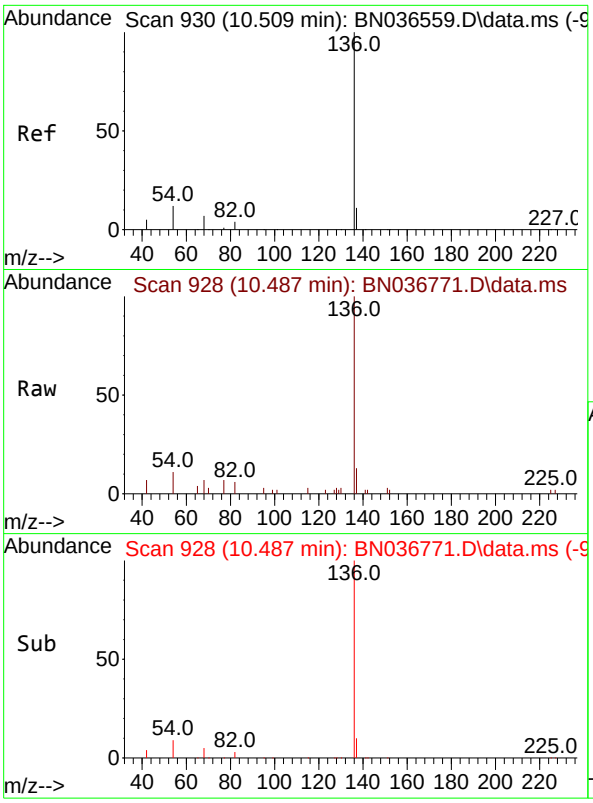


#6
bis(2-Chloroethyl)ether
Concen: 0.343 ng
RT: 7.125 min Scan# 560
Delta R.T. -0.029 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion: 93 Resp: 1671

Ion	Ratio	Lower	Upper
93	100		
63	87.3	67.7	101.5
95	31.8	25.6	38.4



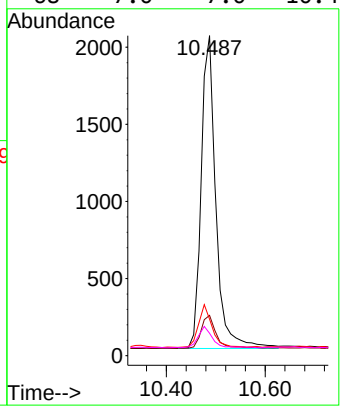


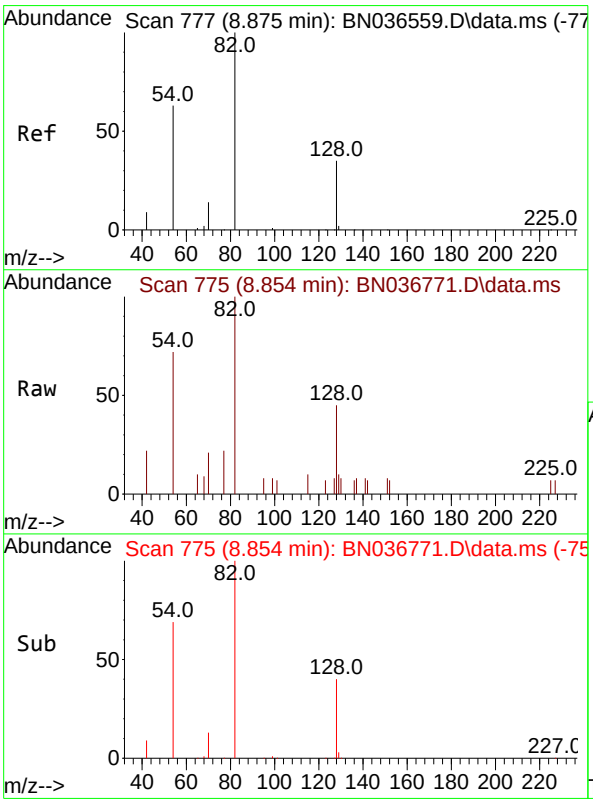
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.487 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:136 Resp: 4177

Ion	Ratio	Lower	Upper
136	100		
137	12.6	10.3	15.5
54	11.4	11.5	17.3#
68	7.0	7.0	10.4

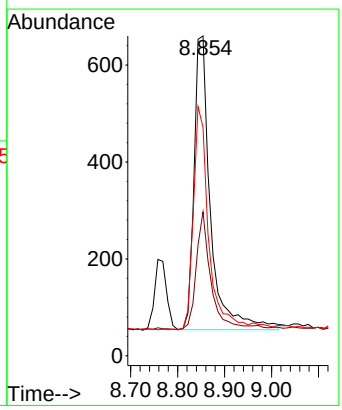


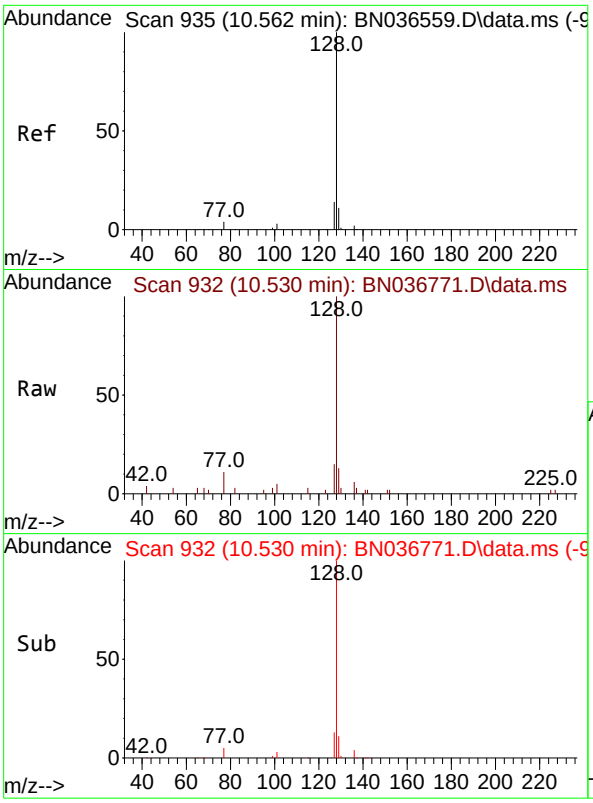


#8
Nitrobenzene-d5
Concen: 0.326 ng
RT: 8.854 min Scan# 775
Delta R.T. -0.021 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion: 82 Resp: 1480

Ion	Ratio	Lower	Upper
82	100		
128	45.0	30.6	45.8
54	71.5	52.2	78.4



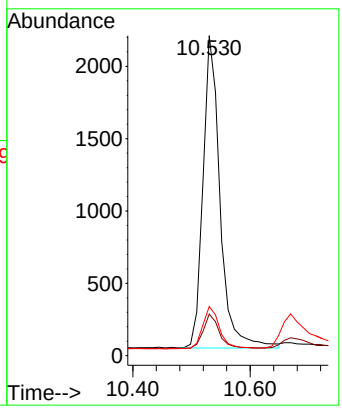


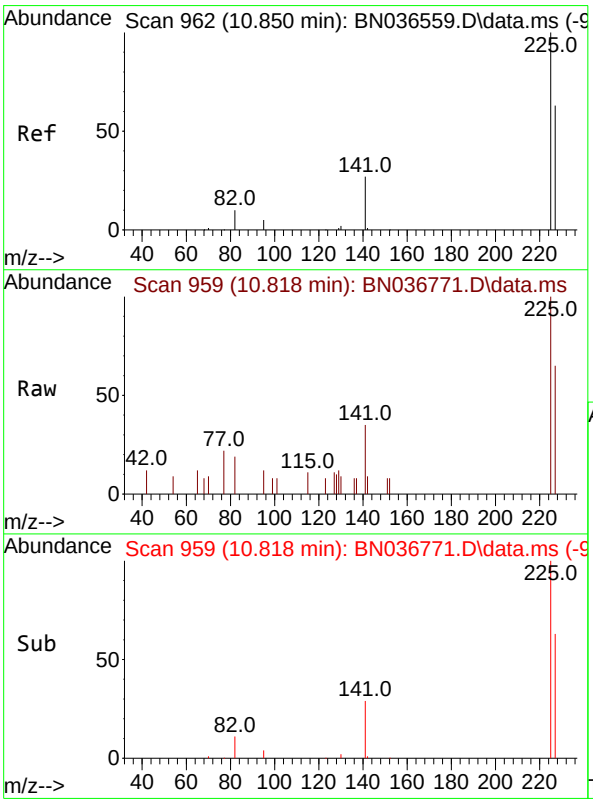
#9
Naphthalene
Concen: 0.355 ng
RT: 10.530 min Scan# 9
Delta R.T. -0.032 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:128 Resp: 4359

Ion	Ratio	Lower	Upper
128	100		
129	13.0	9.8	14.6
127	15.4	11.8	17.8

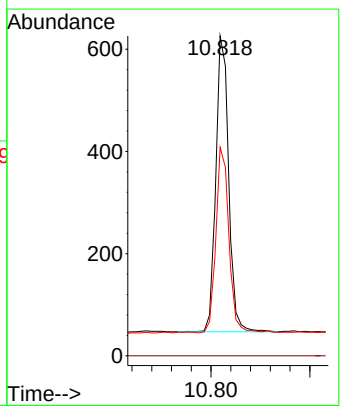


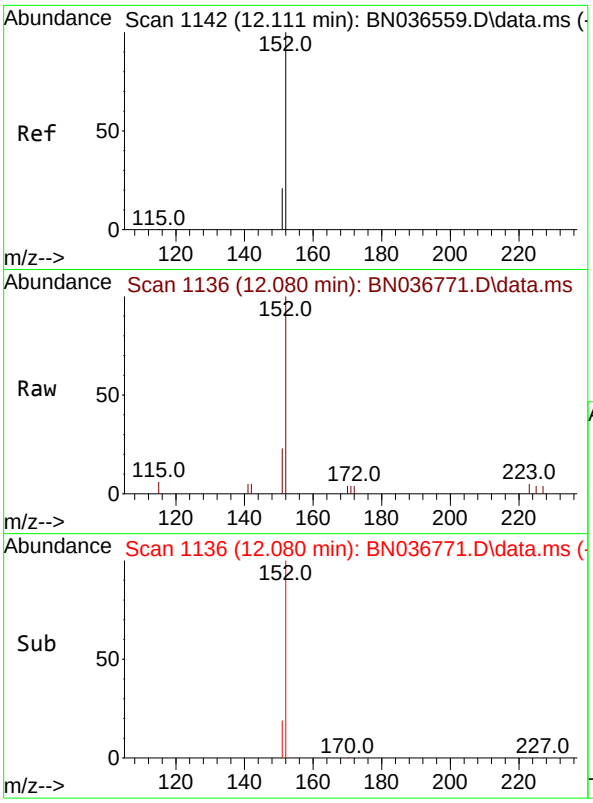


#10
Hexachlorobutadiene
Concen: 0.361 ng
RT: 10.818 min Scan# 959
Delta R.T. -0.032 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:225 Resp: 1044

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.8	51.8	77.8



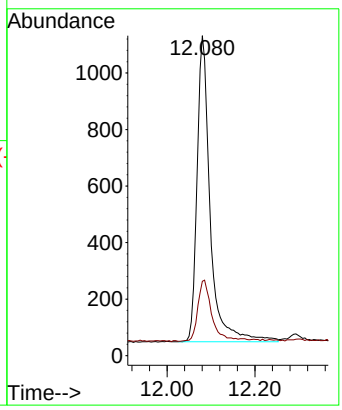


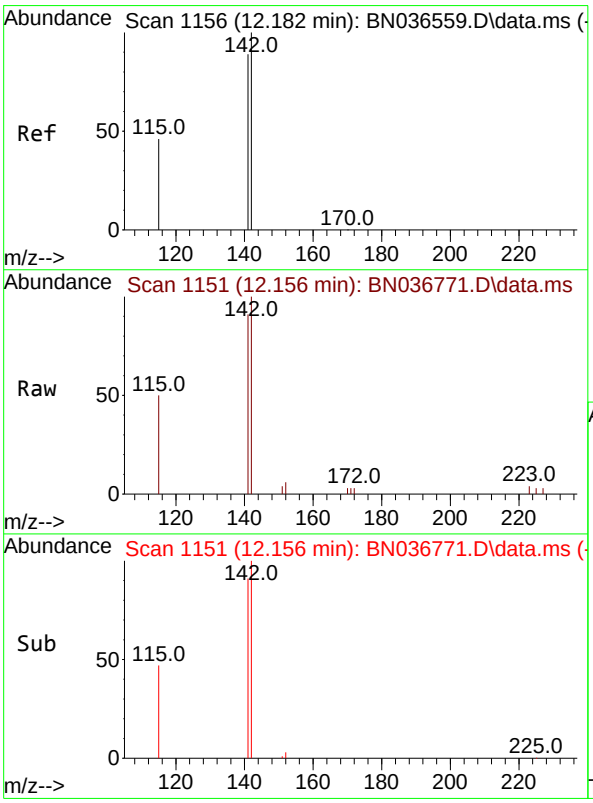
#11
2-Methylnaphthalene-d10
Concen: 0.363 ng
RT: 12.080 min Scan# 11
Delta R.T. -0.030 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 2256

Ion	Ratio	Lower	Upper
152	100		
151	21.0	17.0	25.6

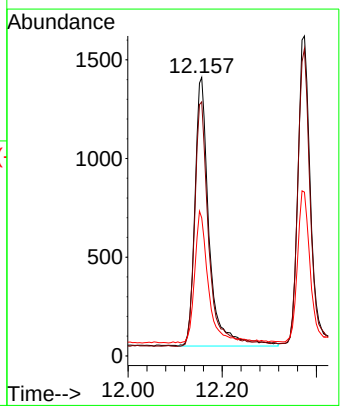


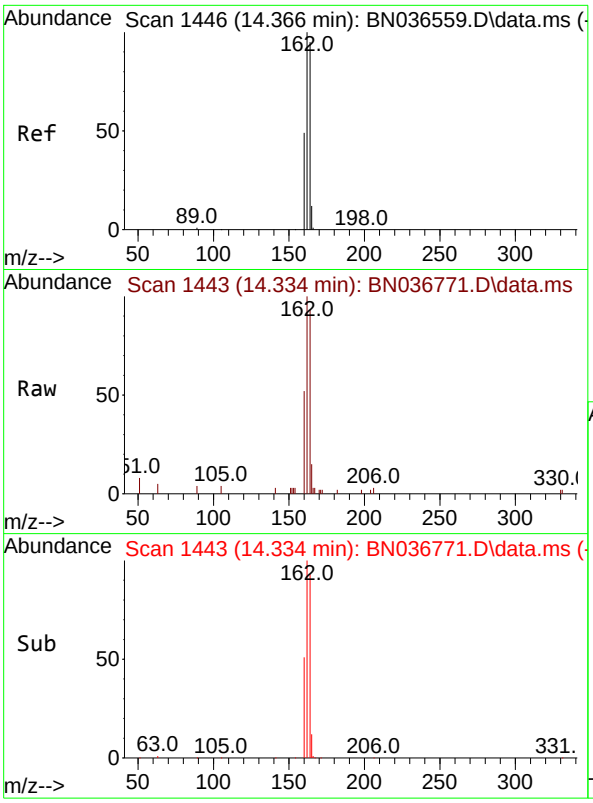


#12
2-Methylnaphthalene
Concen: 0.368 ng
RT: 12.156 min Scan# 1151
Delta R.T. -0.025 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:142 Resp: 2874

Ion	Ratio	Lower	Upper
142	100		
141	91.2	71.7	107.5
115	49.5	38.3	57.5



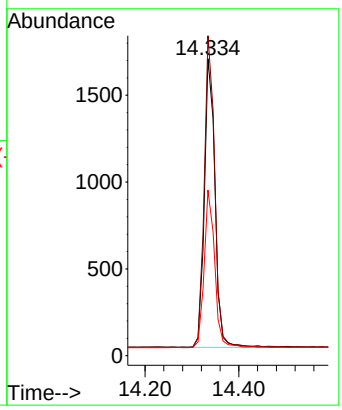


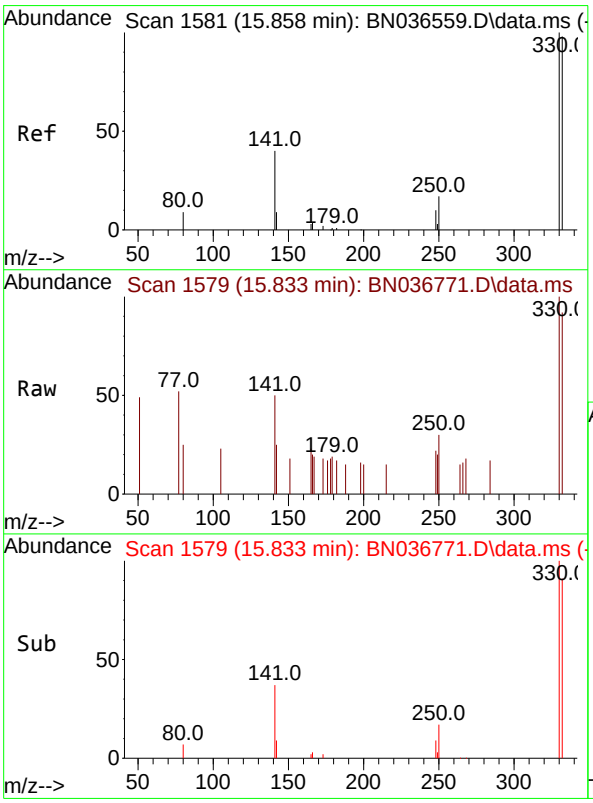
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:164 Resp: 2615

Ion	Ratio	Lower	Upper
164	100		
162	107.8	84.2	126.2
160	55.8	42.2	63.2

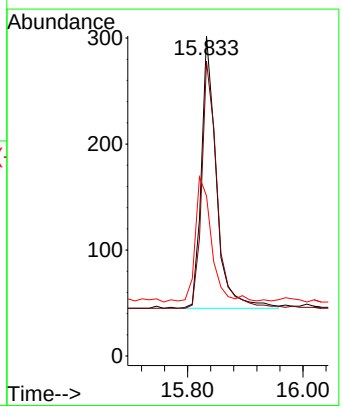


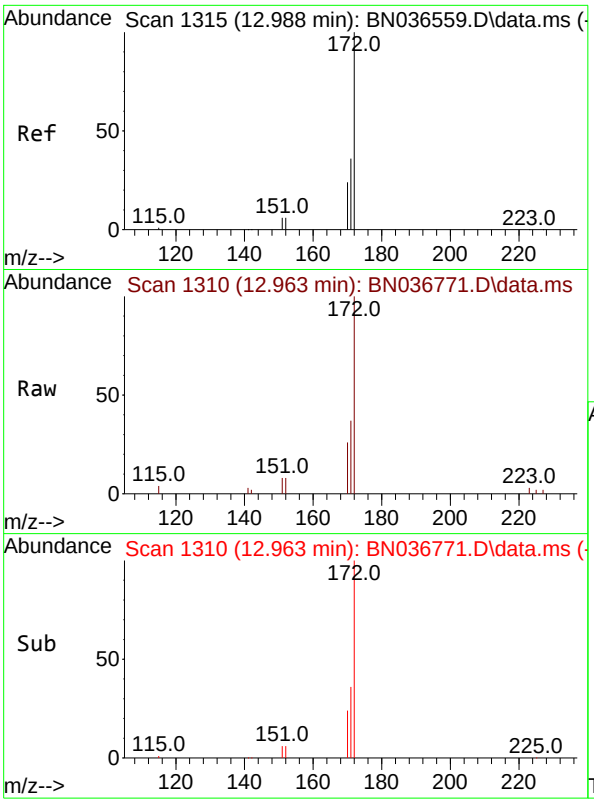


#14
2,4,6-Tribromophenol
Concen: 0.391 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.025 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:330 Resp: 464

Ion	Ratio	Lower	Upper
330	100		
332	93.3	75.2	112.8
141	49.1	43.4	65.2



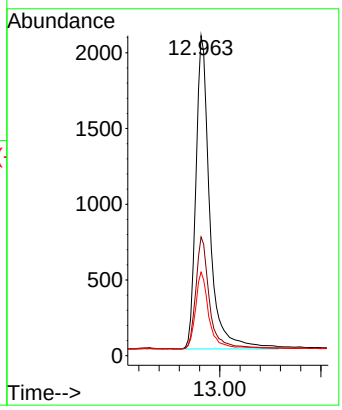


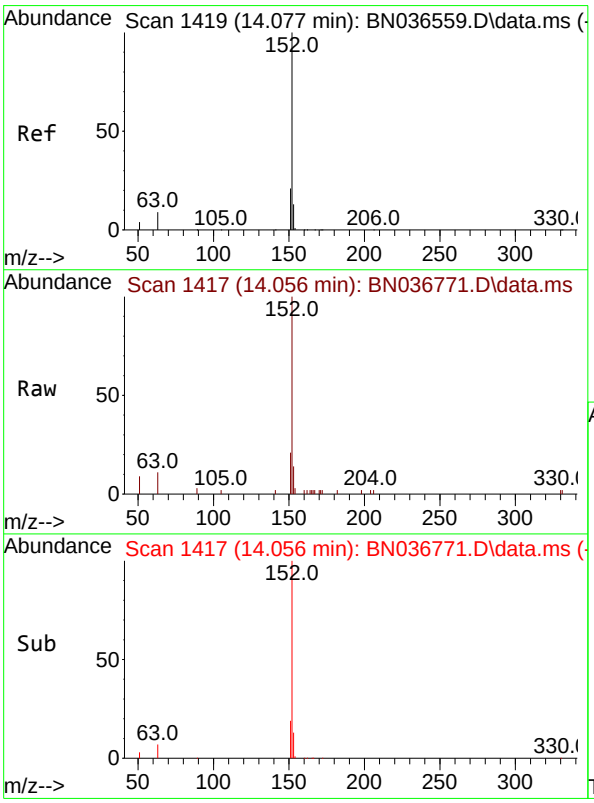
#15
2-Fluorobiphenyl
Concen: 0.347 ng
RT: 12.963 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:172 Resp: 5285

Ion	Ratio	Lower	Upper
172	100		
171	37.1	29.5	44.3
170	26.1	20.2	30.4

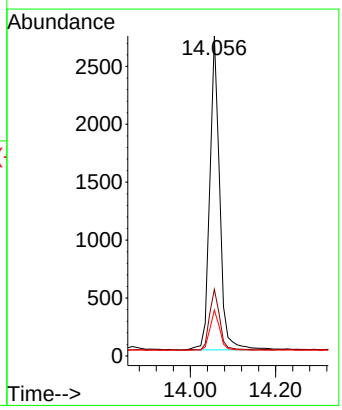


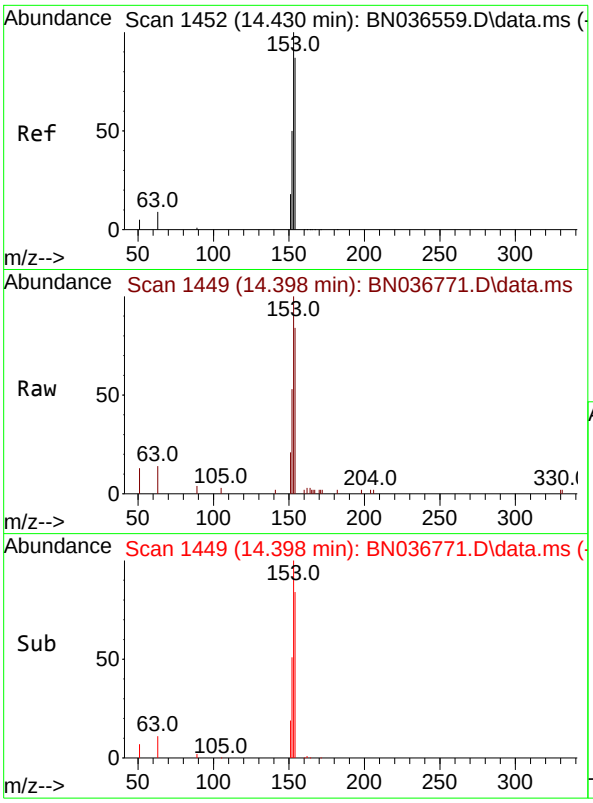


#16
Acenaphthylene
Concen: 0.353 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.021 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:152 Resp: 4358

Ion	Ratio	Lower	Upper
152	100		
151	19.5	16.2	24.4
153	13.1	10.6	15.8



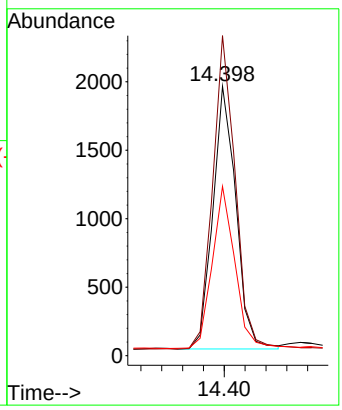


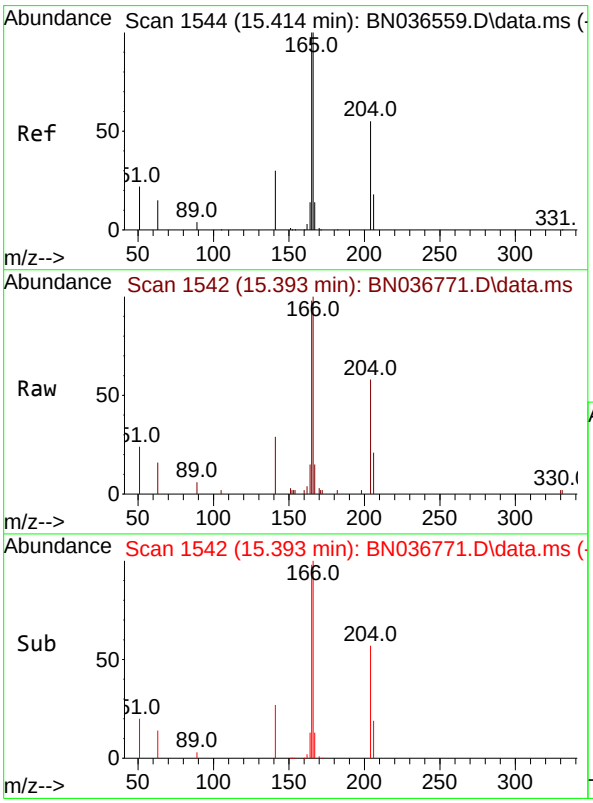
#17
Acenaphthene
Concen: 0.365 ng
RT: 14.398 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:154 Resp: 2946

Ion	Ratio	Lower	Upper
154	100		
153	117.7	94.1	141.1
152	61.6	49.8	74.6

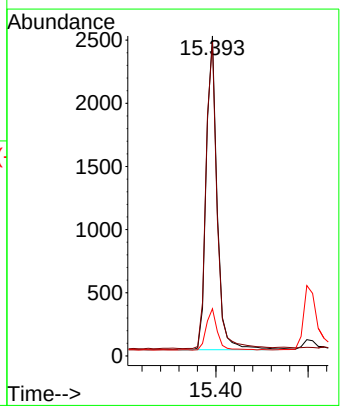


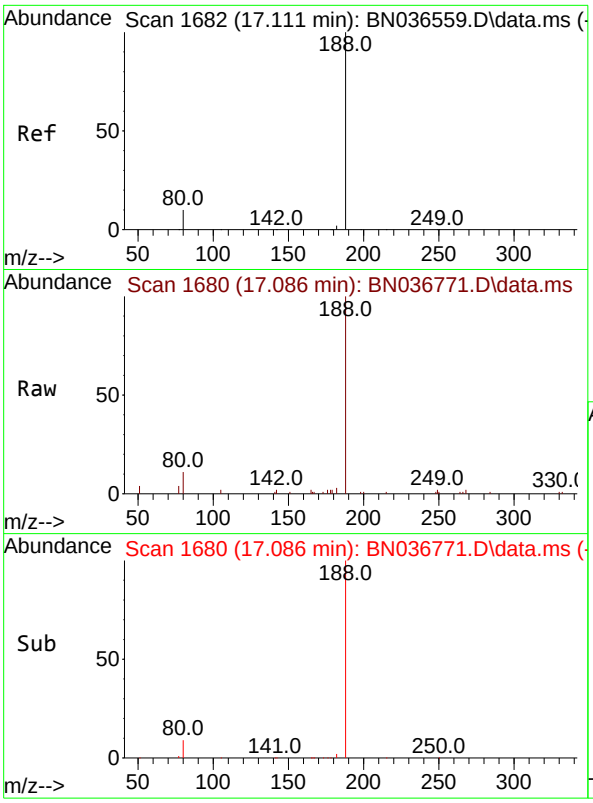


#18
Fluorene
Concen: 0.376 ng
RT: 15.393 min Scan# 1542
Delta R.T. -0.021 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:166 Resp: 4111

Ion	Ratio	Lower	Upper
166	100		
165	97.9	79.8	119.8
167	13.4	10.6	15.8



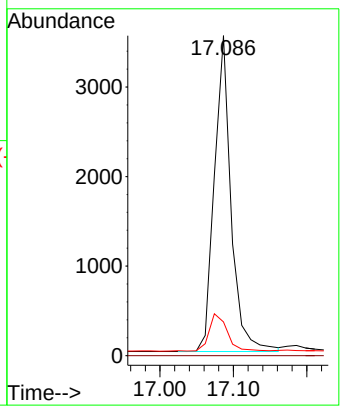


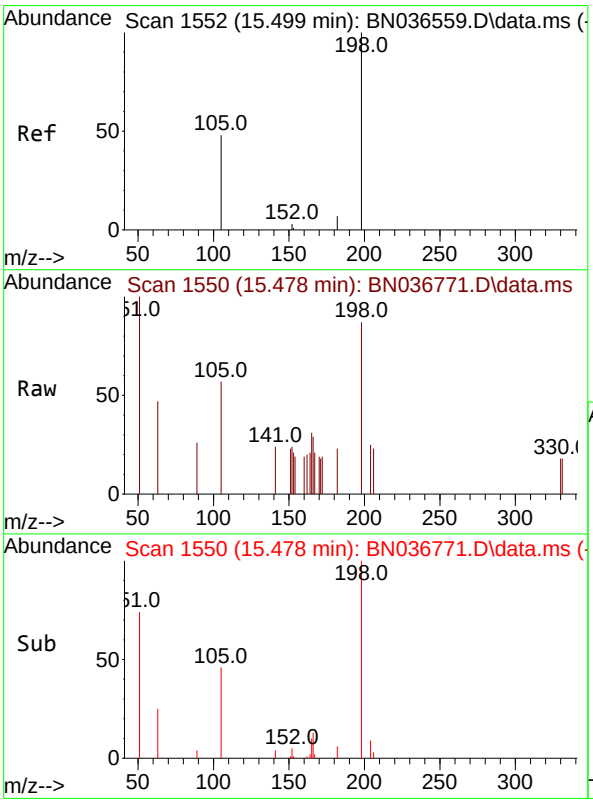
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:188 Resp: 5571

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.6	8.8	13.2

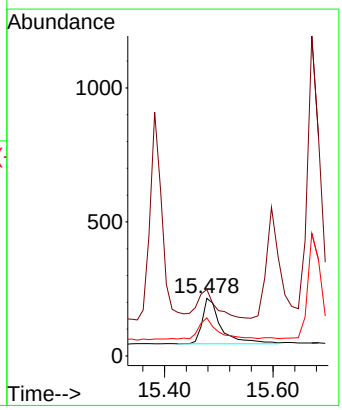


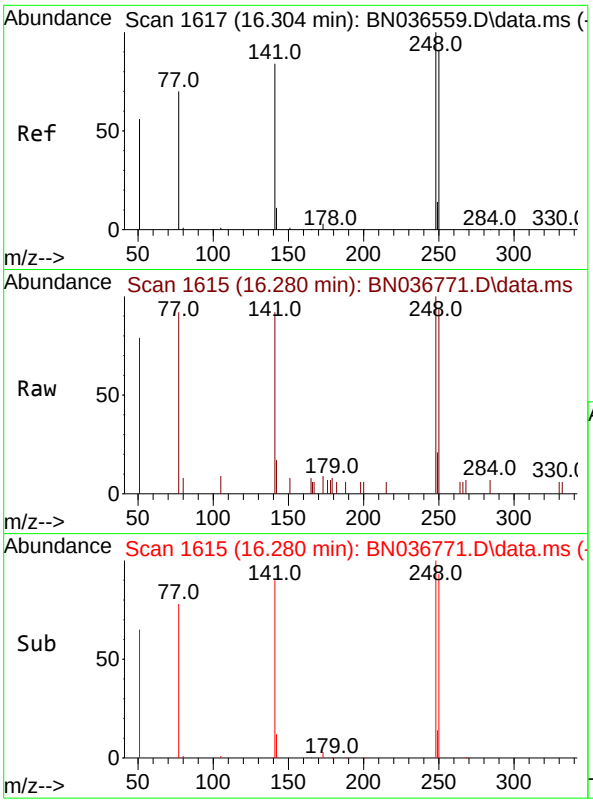


#20
4,6-Dinitro-2-methylphenol
Concen: 0.446 ng
RT: 15.478 min Scan# 1550
Delta R.T. -0.021 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:198 Resp: 428

Ion	Ratio	Lower	Upper
198	100		
51	115.3	107.9	161.9
105	66.0	56.2	84.2



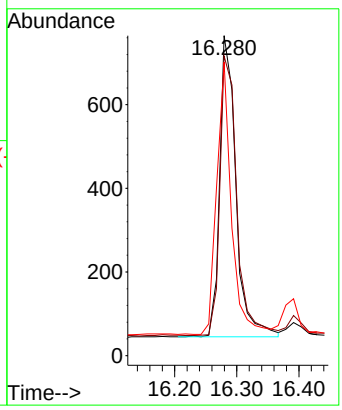


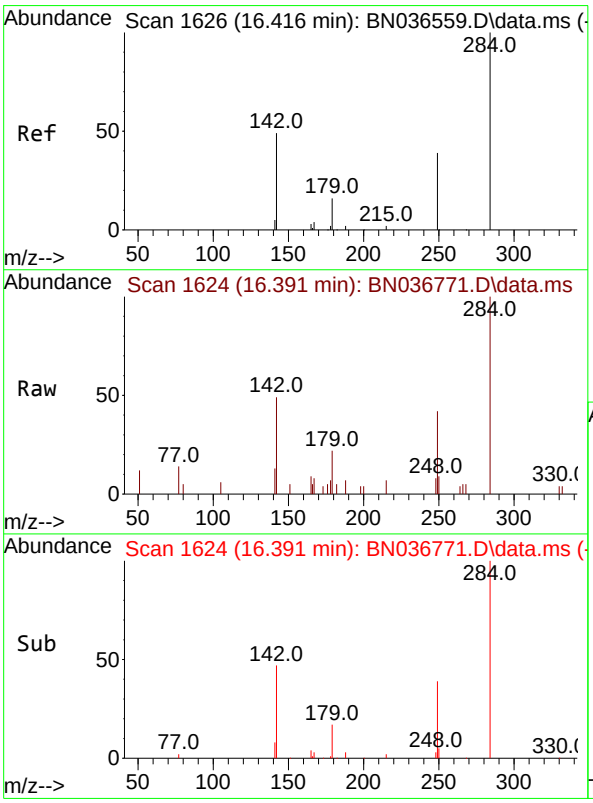
#21
4-Bromophenyl-phenylether
Concen: 0.372 ng
RT: 16.280 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:248 Resp: 1300

Ion	Ratio	Lower	Upper
248	100		
250	93.6	73.0	109.6
141	91.8	68.6	103.0

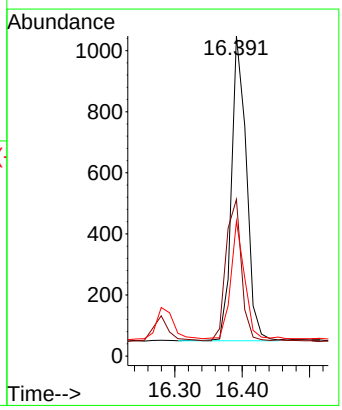


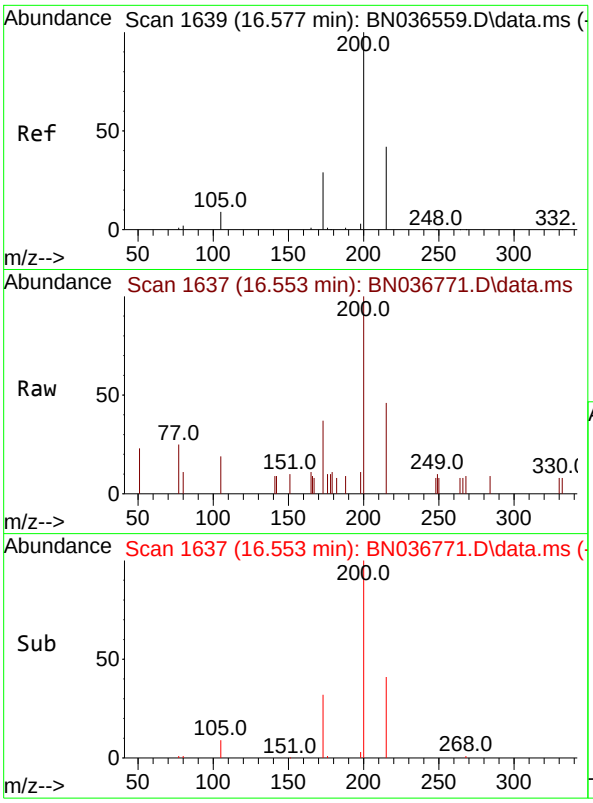


#22
Hexachlorobenzene
Concen: 0.365 ng
RT: 16.391 min Scan# 1624
Delta R.T. -0.025 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:284 Resp: 1537

Ion	Ratio	Lower	Upper
284	100		
142	49.5	37.0	55.4
249	36.2	28.1	42.1



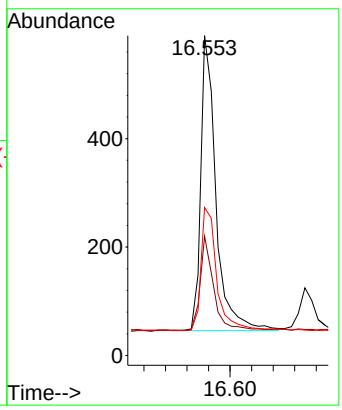


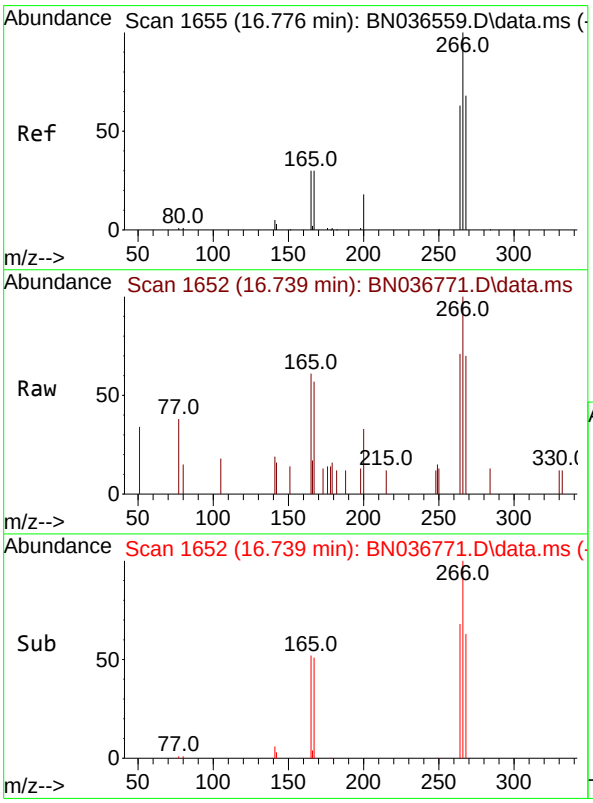
#23
Atrazine
Concen: 0.380 ng
RT: 16.553 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:200 Resp: 1063

Ion	Ratio	Lower	Upper
200	100		
173	37.3	27.3	40.9
215	46.3	36.8	55.2

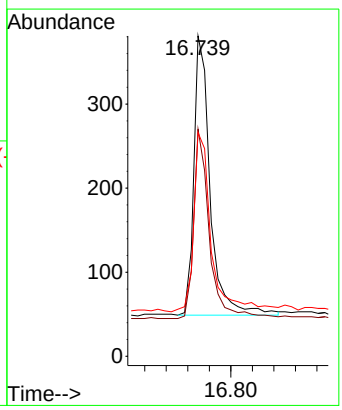


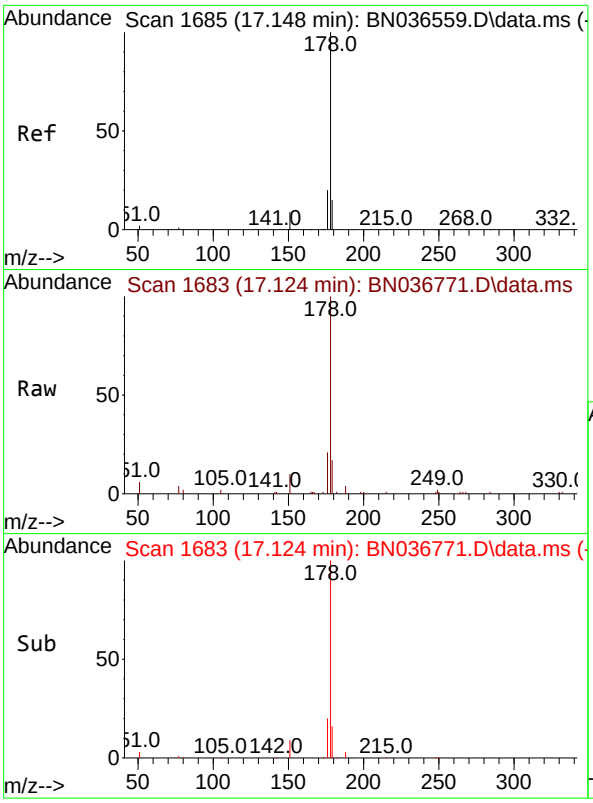


#24
Pentachlorophenol
Concen: 0.365 ng
RT: 16.739 min Scan# 1652
Delta R.T. -0.037 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:266 Resp: 702

Ion	Ratio	Lower	Upper
266	100		
264	64.8	49.6	74.4
268	69.2	50.9	76.3



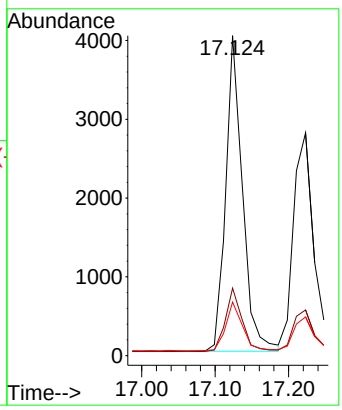


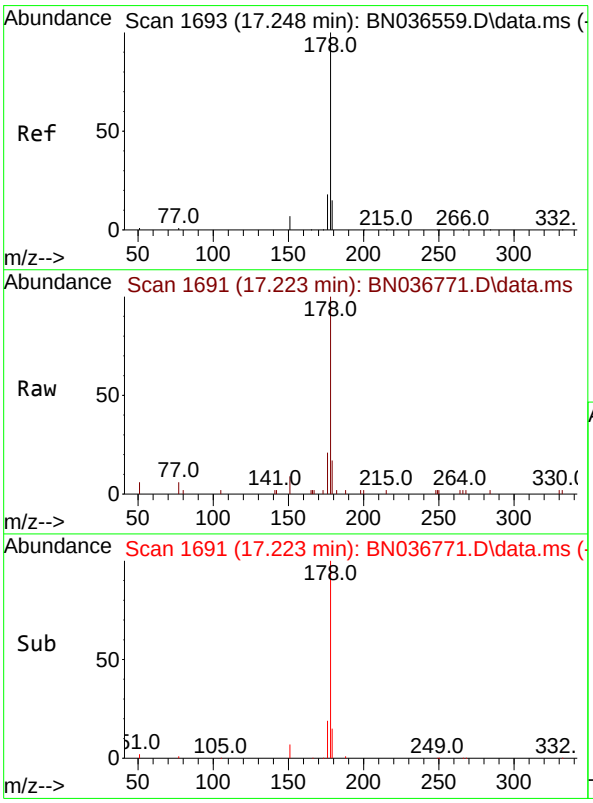
#25
Phenanthrene
Concen: 0.381 ng
RT: 17.124 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:178 Resp: 6367

Ion	Ratio	Lower	Upper
178	100		
176	20.0	15.9	23.9
179	15.8	12.2	18.4

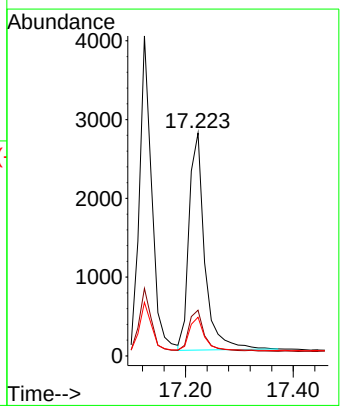


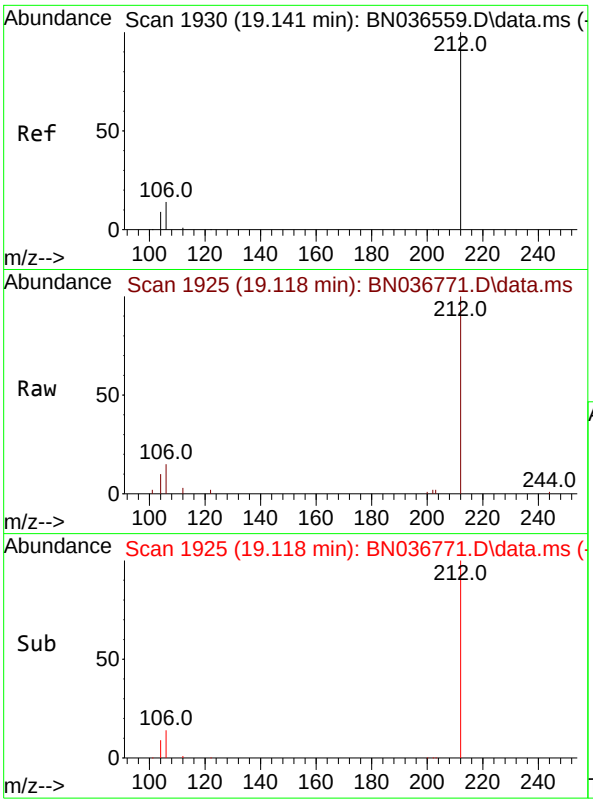


#26
Anthracene
Concen: 0.369 ng
RT: 17.223 min Scan# 1691
Delta R.T. -0.025 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:178 Resp: 5569

Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.4	23.2
179	15.4	12.6	18.8



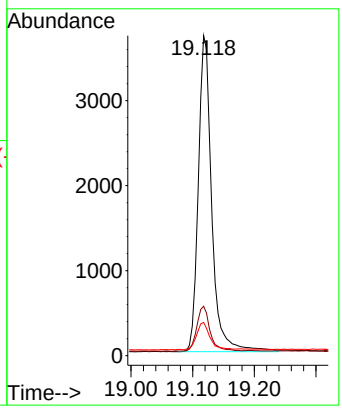


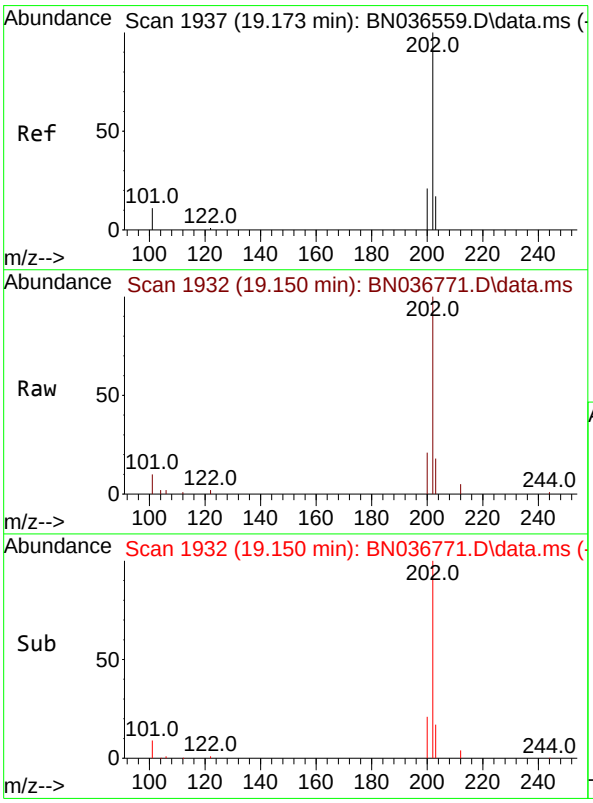
#27
Fluoranthene-d10
Concen: 0.395 ng
RT: 19.118 min Scan# 1
Delta R.T. -0.023 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:212 Resp: 5637

Ion	Ratio	Lower	Upper
212	100		
106	13.8	11.8	17.6
104	8.6	7.3	10.9

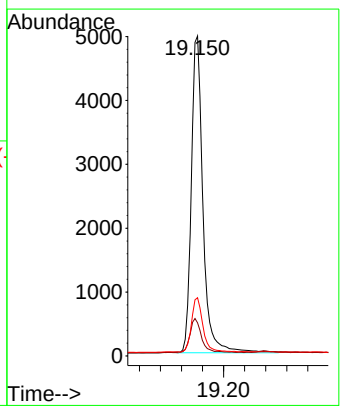


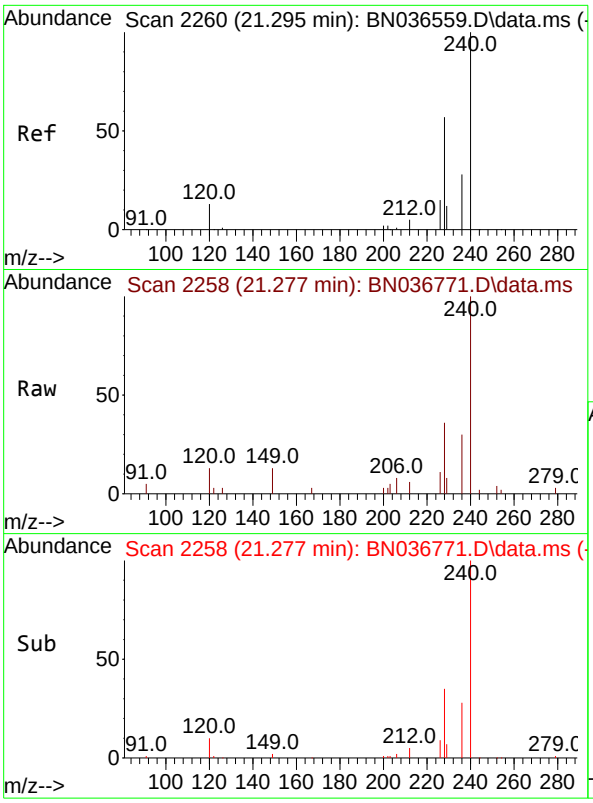


#28
Fluoranthene
Concen: 0.406 ng
RT: 19.150 min Scan# 1932
Delta R.T. -0.023 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:202 Resp: 7617

Ion	Ratio	Lower	Upper
202	100		
101	11.0	9.4	14.0
203	16.8	13.5	20.3



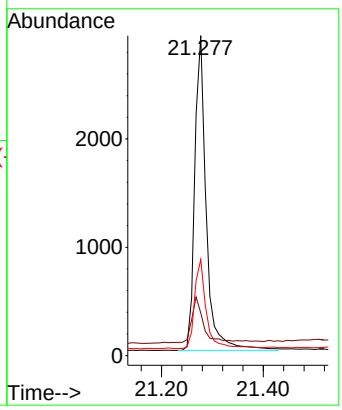


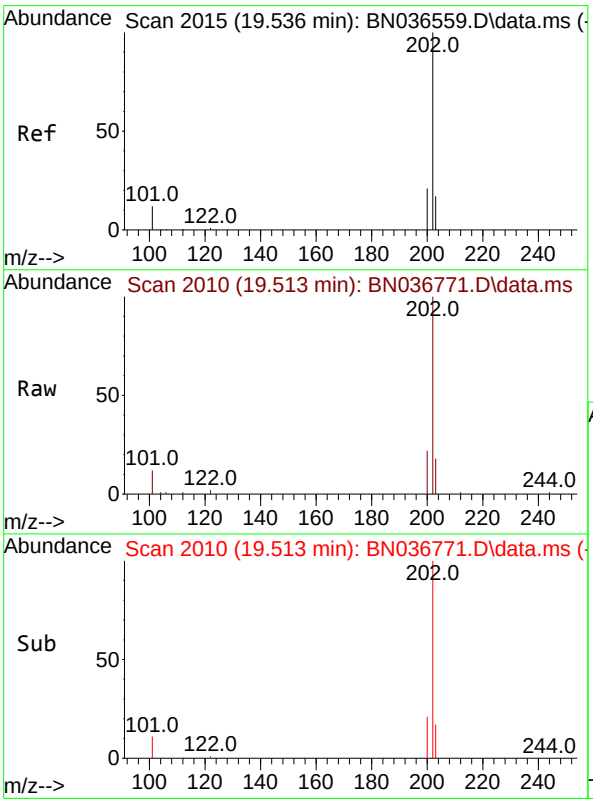
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:240 Resp: 4555

Ion	Ratio	Lower	Upper
240	100		
120	13.3	14.6	22.0#
236	30.0	24.1	36.1

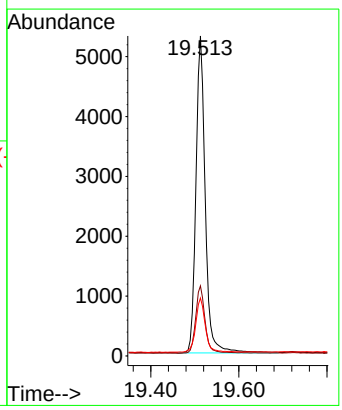


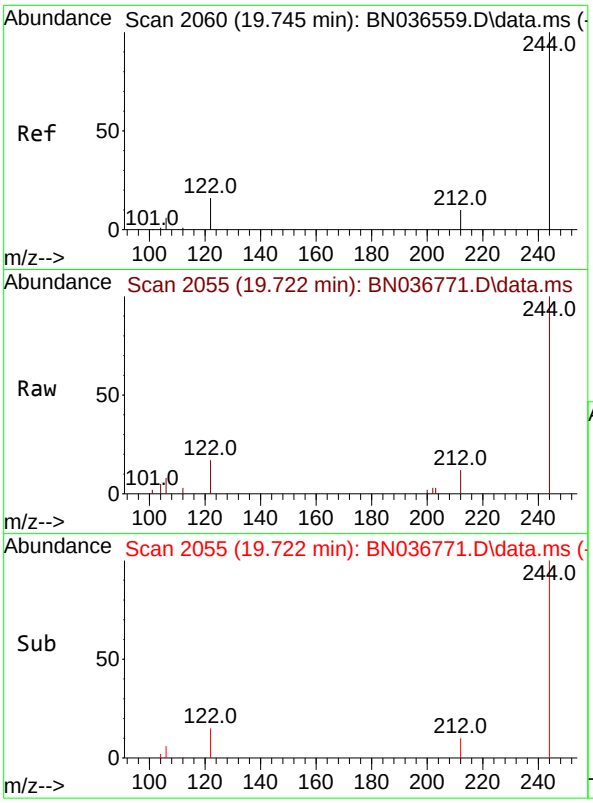


#30
Pyrene
Concen: 0.350 ng
RT: 19.513 min Scan# 2010
Delta R.T. -0.023 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:202 Resp: 7795

Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.1	25.7
203	17.3	14.1	21.1



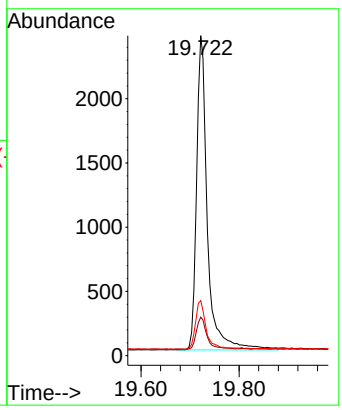


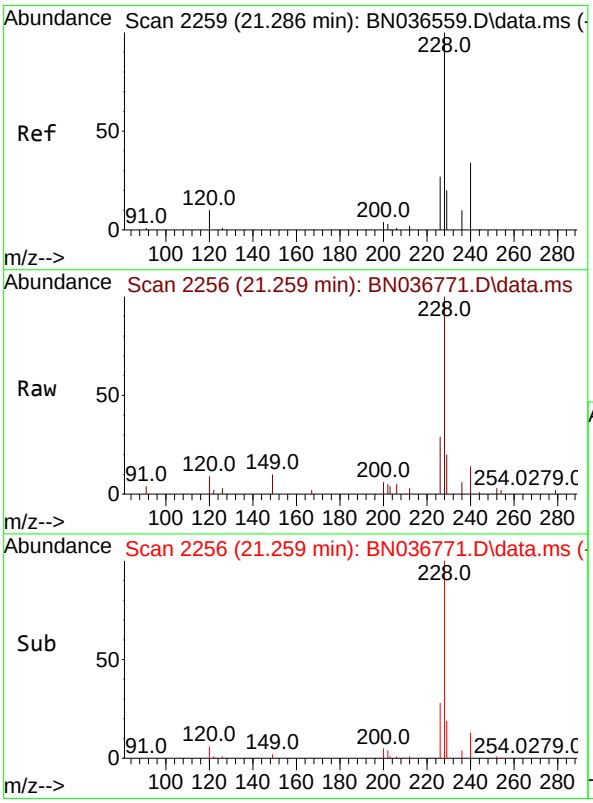
#31
Terphenyl-d14
Concen: 0.341 ng
RT: 19.722 min Scan# 2
Delta R.T. -0.023 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:244 Resp: 3716

Ion	Ratio	Lower	Upper
244	100		
212	12.0	9.6	14.4
122	17.2	13.9	20.9

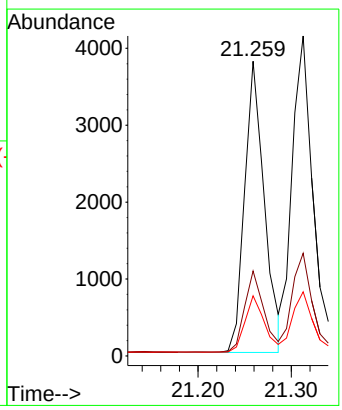


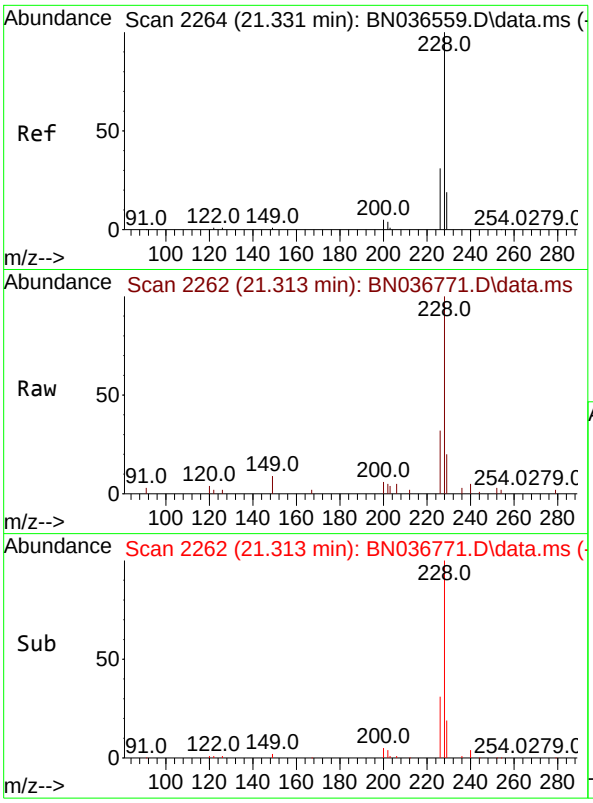


#32
Benzo(a)anthracene
Concen: 0.351 ng
RT: 21.259 min Scan# 2256
Delta R.T. -0.027 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:228 Resp: 5566

Ion	Ratio	Lower	Upper
228	100		
226	28.8	22.5	33.7
229	20.4	16.6	25.0



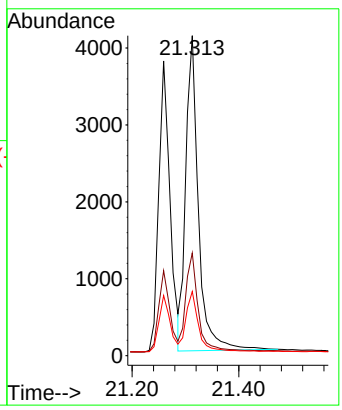


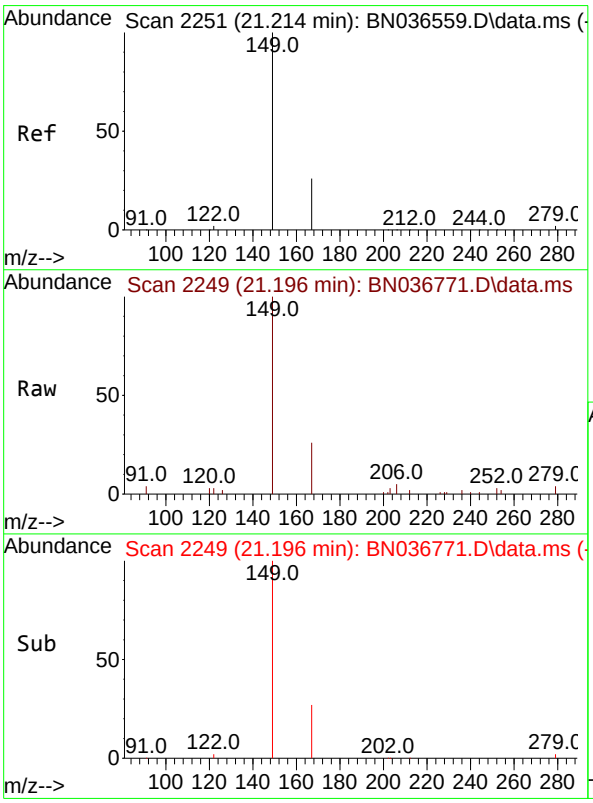
#33
Chrysene
Concen: 0.389 ng
RT: 21.313 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:228 Resp: 6726

Ion	Ratio	Lower	Upper
228	100		
226	32.1	25.3	37.9
229	20.0	15.8	23.8

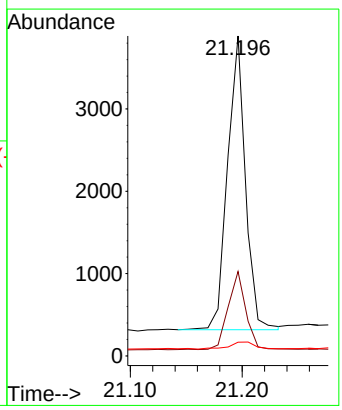


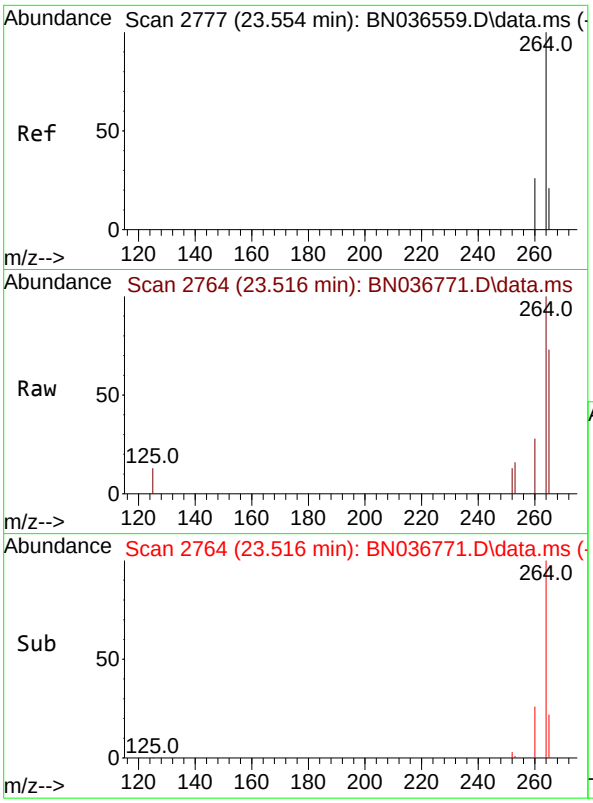


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.352 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:149 Resp: 3968

Ion	Ratio	Lower	Upper
149	100		
167	26.1	20.7	31.1
279	3.3	3.6	5.4#



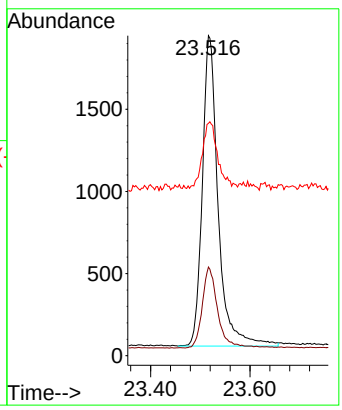


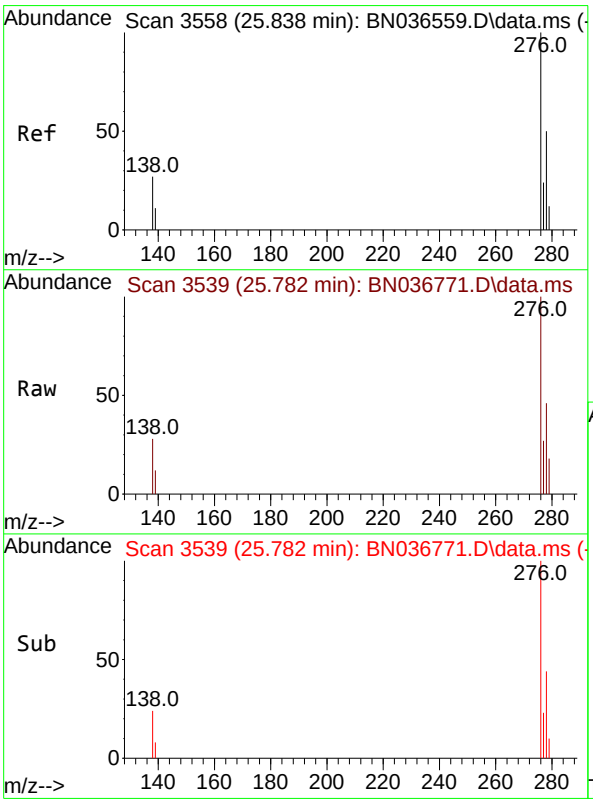
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.516 min Scan# 2
Delta R.T. -0.038 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:264 Resp: 4167

Ion	Ratio	Lower	Upper
264	100		
260	27.7	22.6	33.8
265	72.6	88.1	132.1#

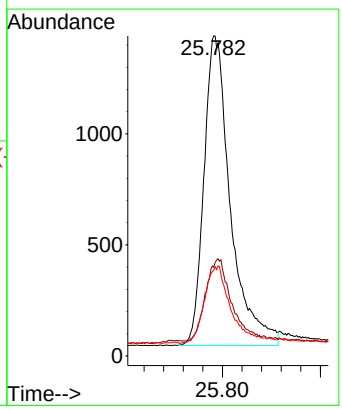


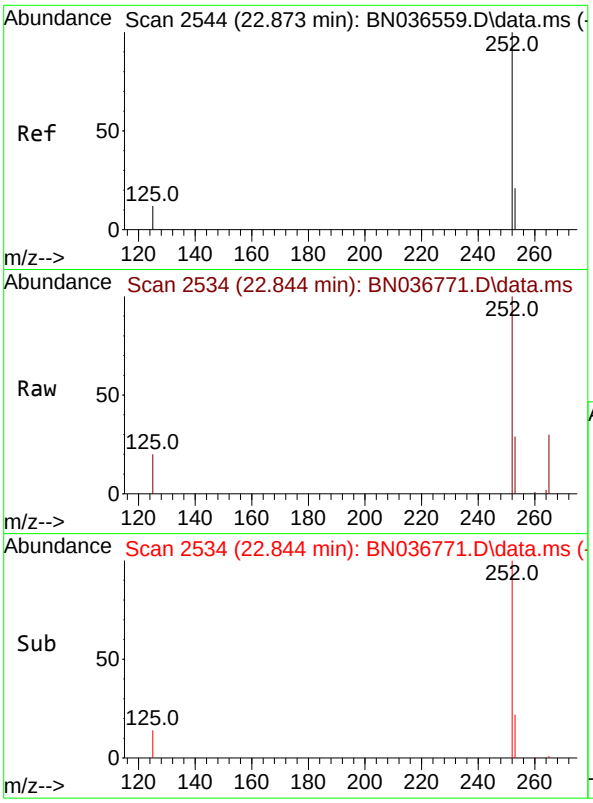


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.348 ng
RT: 25.782 min Scan# 3539
Delta R.T. -0.055 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:276 Resp: 5233

Ion	Ratio	Lower	Upper
276	100		
138	25.8	23.4	35.2
277	25.2	20.0	30.0



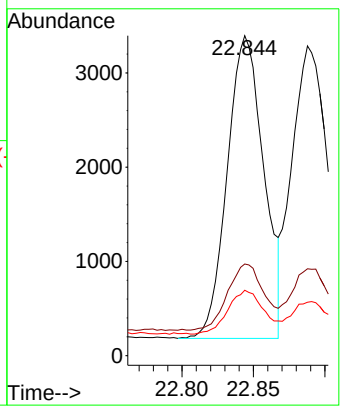


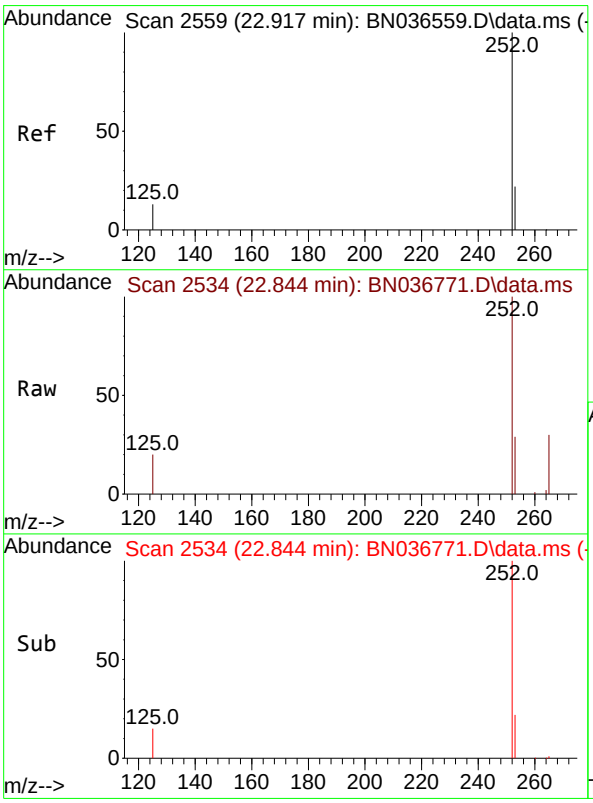
#37
Benzo(b)fluoranthene
Concen: 0.377 ng
RT: 22.844 min Scan# 2
Delta R.T. -0.029 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:252 Resp: 5720

Ion	Ratio	Lower	Upper
252	100		
253	28.6	23.9	35.9
125	20.5	17.4	26.2

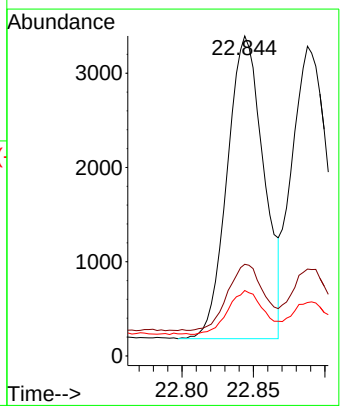


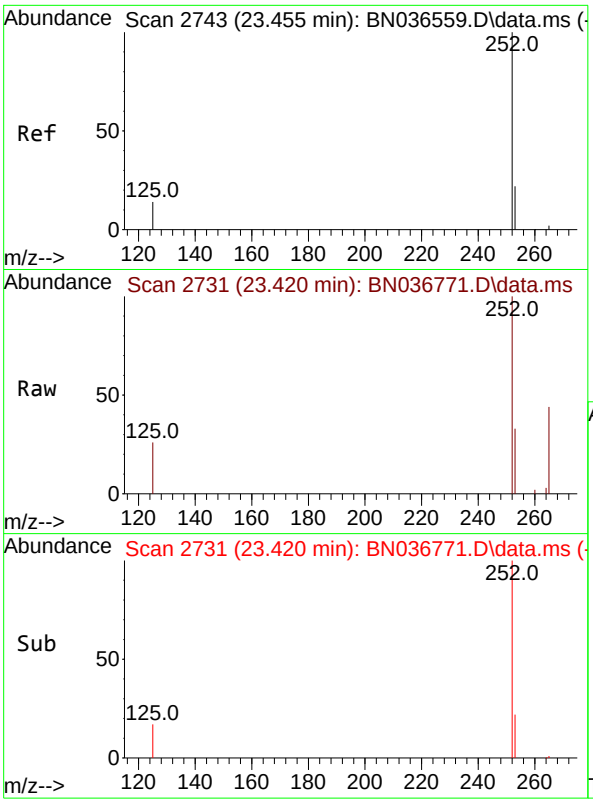


#38
Benzo(k)fluoranthene
Concen: 0.360 ng
RT: 22.844 min Scan# 2534
Delta R.T. -0.073 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:252 Resp: 5720

Ion	Ratio	Lower	Upper
252	100		
253	28.6	24.6	36.8
125	20.5	17.8	26.8



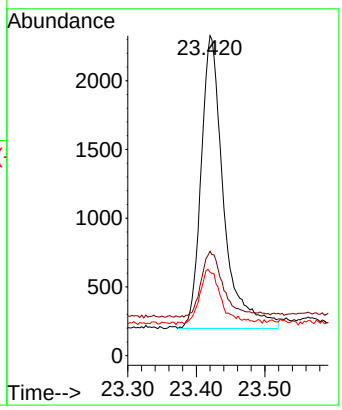


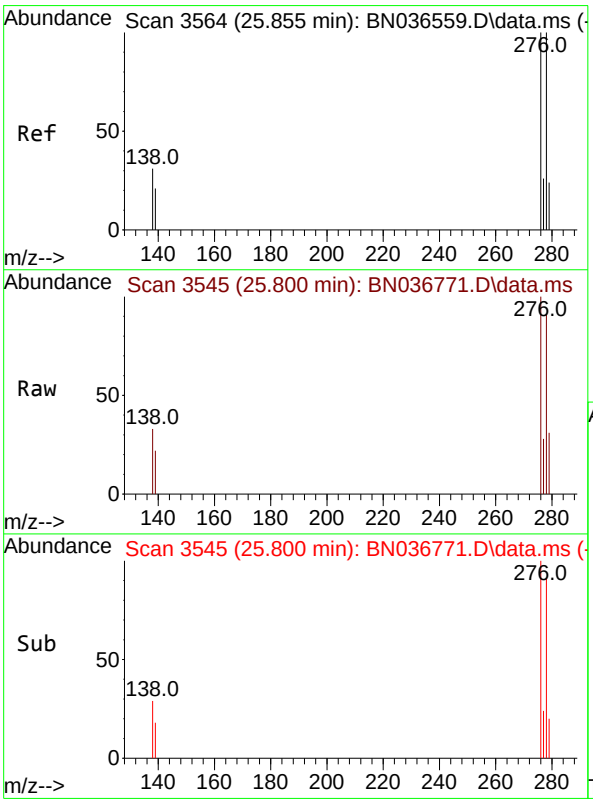
#39
Benzo(a)pyrene
Concen: 0.381 ng
RT: 23.420 min Scan# 2
Delta R.T. -0.035 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:252 Resp: 4867

Ion	Ratio	Lower	Upper
252	100		
253	32.6	27.8	41.8
125	26.1	22.7	34.1

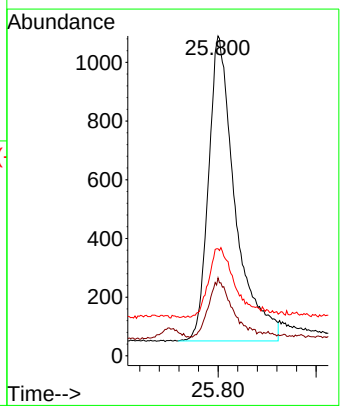


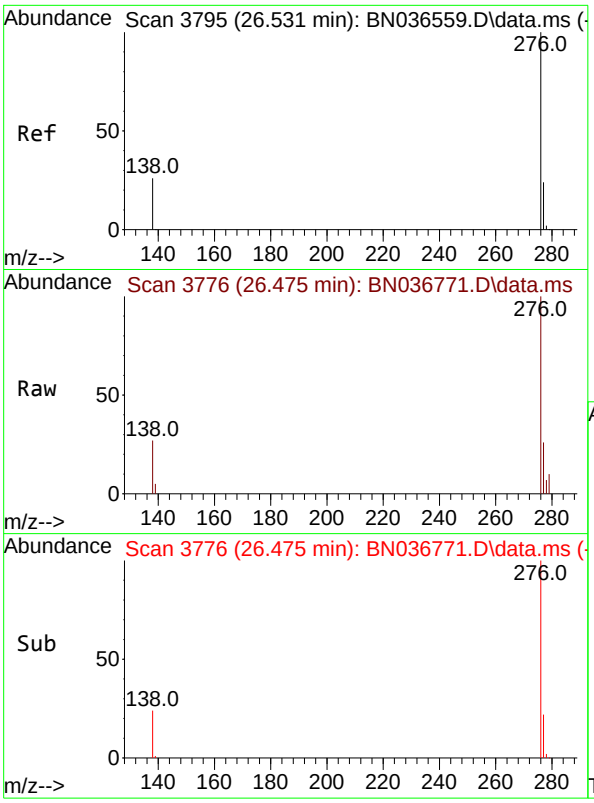


#40
Dibenzo(a,h)anthracene
Concen: 0.334 ng
RT: 25.800 min Scan# 3545
Delta R.T. -0.055 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:278 Resp: 3914

Ion	Ratio	Lower	Upper
278	100		
139	24.4	20.8	31.2
279	33.5	28.8	43.2



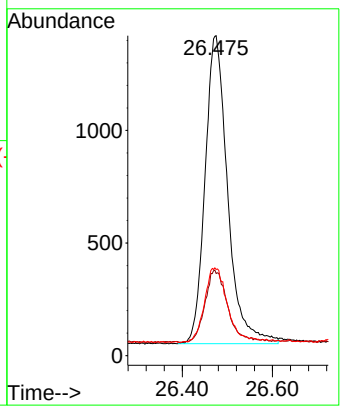


#41
Benzo(g,h,i)perylene
Concen: 0.355 ng
RT: 26.475 min Scan# 3
Delta R.T. -0.055 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:276 Resp: 4758

Ion	Ratio	Lower	Upper
276	100		
277	25.7	22.2	33.4
138	27.0	24.1	36.1



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
Data File : BN036791.D
Acq On : 29 Mar 2025 02:44
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Mar 29 04:28:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

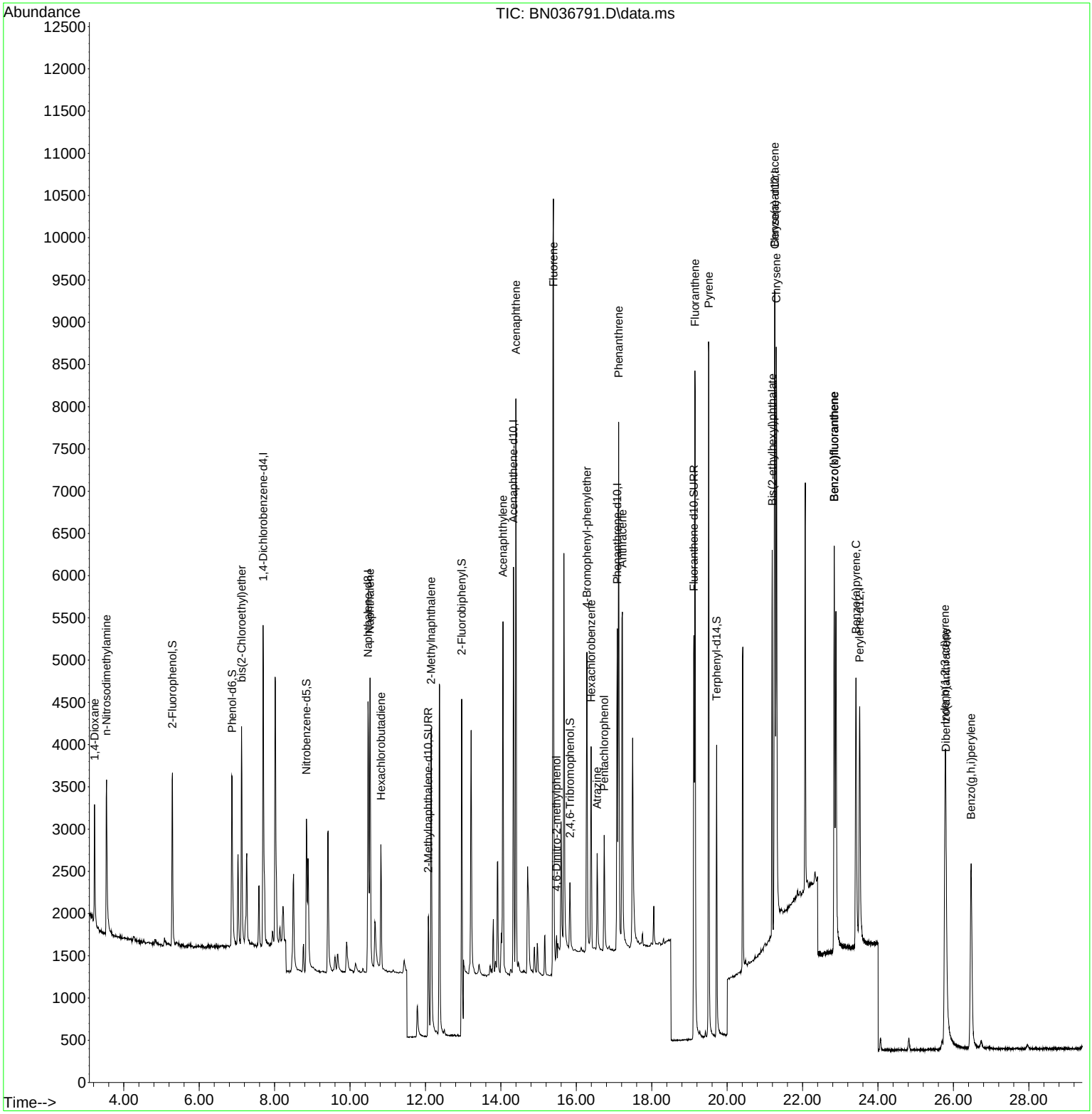
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.696	152	1826	0.400	ng		-0.03
7) Naphthalene-d8	10.477	136	4490	0.400	ng		-0.03
13) Acenaphthene-d10	14.334	164	2701	0.400	ng		-0.03
19) Phenanthrene-d10	17.087	188	5571	0.400	ng		-0.02
29) Chrysene-d12	21.268	240	4634	0.400	ng		-0.03
35) Perylene-d12	23.516	264	4032	0.400	ng		#-0.04
System Monitoring Compounds							
4) 2-Fluorophenol	5.291	112	1521	0.357	ng		-0.02
5) Phenol-d6	6.872	99	1838	0.350	ng		-0.03
8) Nitrobenzene-d5	8.843	82	1689	0.346	ng		-0.03
11) 2-Methylnaphthalene-d10	12.075	152	2363	0.354	ng		-0.04
14) 2,4,6-Tribromophenol	15.833	330	481	0.392	ng		-0.02
15) 2-Fluorobiphenyl	12.963	172	5513	0.351	ng		-0.03
27) Fluoranthene-d10	19.118	212	5751	0.403	ng		-0.02
31) Terphenyl-d14	19.722	244	3623	0.326	ng		-0.02
Target Compounds							Qvalue
2) 1,4-Dioxane	3.225	88	827	0.408	ng		98
3) n-Nitrosodimethylamine	3.543	42	1757	0.429	ng		91
6) bis(2-Chloroethyl)ether	7.125	93	1880	0.346	ng		99
9) Naphthalene	10.530	128	4740	0.359	ng		99
10) Hexachlorobutadiene	10.819	225	1160	0.373	ng	#	98
12) 2-Methylnaphthalene	12.151	142	3044	0.362	ng		98
16) Acenaphthylene	14.056	152	4532	0.356	ng		99
17) Acenaphthene	14.398	154	3064	0.367	ng		99
18) Fluorene	15.393	166	4209	0.373	ng		99
20) 4,6-Dinitro-2-methylph...	15.478	198	395	0.423	ng	#	76
21) 4-Bromophenyl-phenylether	16.280	248	1353	0.388	ng		96
22) Hexachlorobenzene	16.391	284	1582	0.375	ng		97
23) Atrazine	16.553	200	1090	0.389	ng		97
24) Pentachlorophenol	16.739	266	740	0.385	ng		98
25) Phenanthrene	17.124	178	6416	0.384	ng		99
26) Anthracene	17.223	178	5669	0.376	ng		100
28) Fluoranthene	19.146	202	7784	0.415	ng		99
30) Pyrene	19.513	202	7947	0.351	ng		100
32) Benzo(a)anthracene	21.259	228	5842	0.363	ng		100
33) Chrysene	21.304	228	6781	0.385	ng		99
34) Bis(2-ethylhexyl)phtha...	21.196	149	4355	0.380	ng	#	99
36) Indeno(1,2,3-cd)pyrene	25.779	276	5407	0.372	ng		94
37) Benzo(b)fluoranthene	22.841	252	5627	0.383	ng		97
38) Benzo(k)fluoranthene	22.841	252	5627	0.366	ng		96
39) Benzo(a)pyrene	23.417	252	4993	0.404	ng		95
40) Dibenzo(a,h)anthracene	25.800	278	4150	0.366	ng		93
41) Benzo(g,h,i)perylene	26.469	276	4876	0.376	ng		95

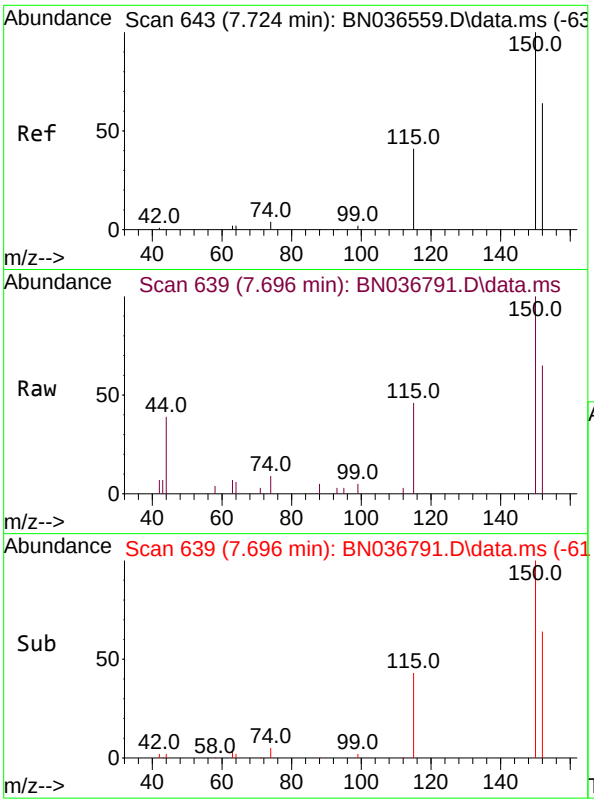
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
Data File : BN036791.D
Acq On : 29 Mar 2025 02:44
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Mar 29 04:28:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



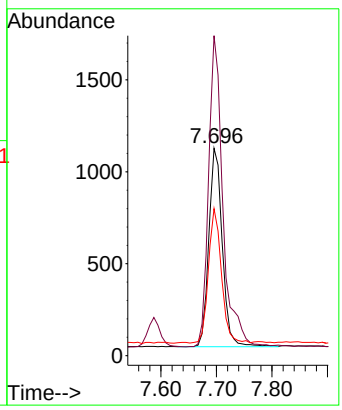


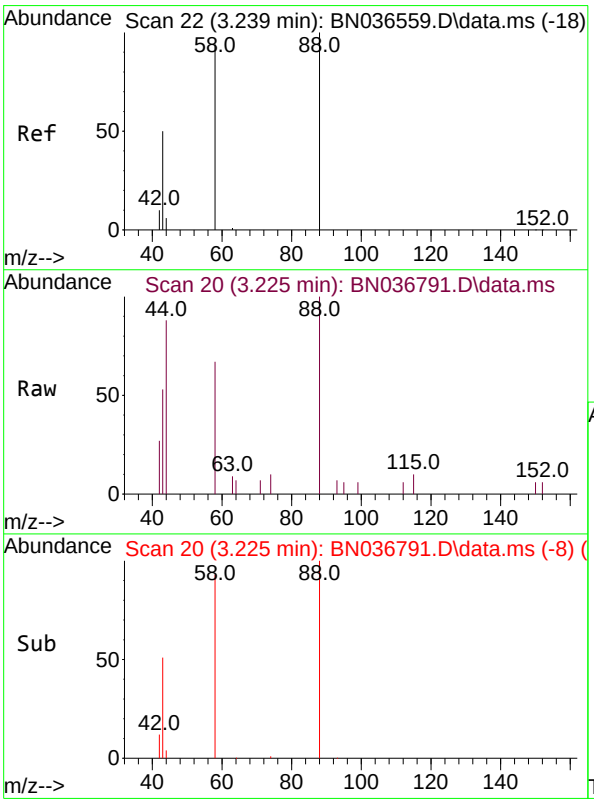
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.696 min Scan# 6
Delta R.T. -0.028 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 1826

Ion	Ratio	Lower	Upper
152	100		
150	154.3	123.7	185.5
115	70.9	54.3	81.5

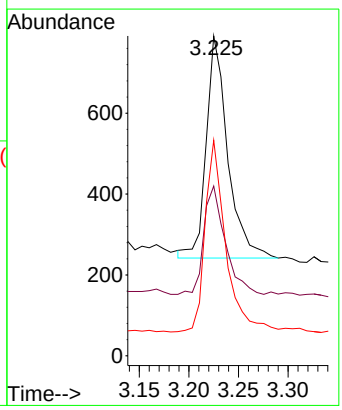


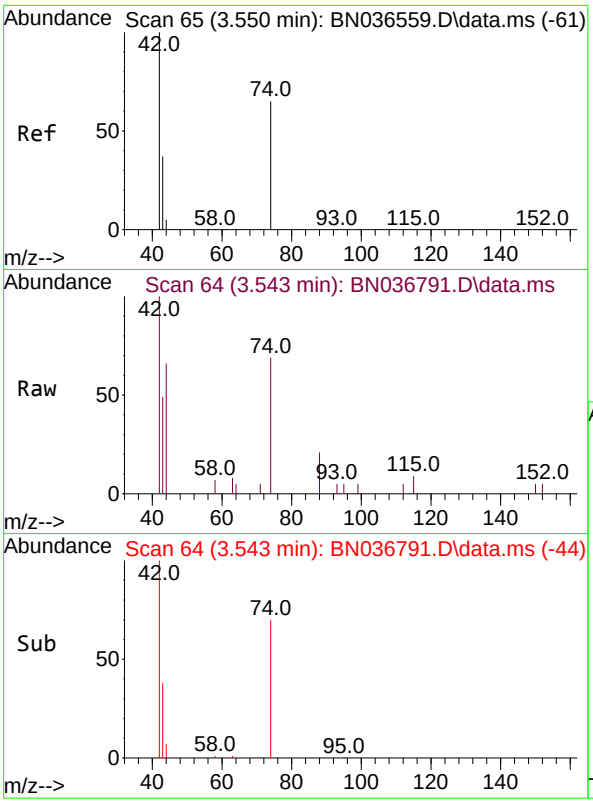


#2
1,4-Dioxane
Concen: 0.408 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion: 88 Resp: 827

Ion	Ratio	Lower	Upper
88	100		
43	48.5	37.8	56.8
58	83.0	67.4	101.2



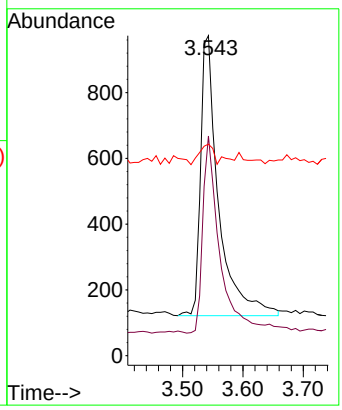


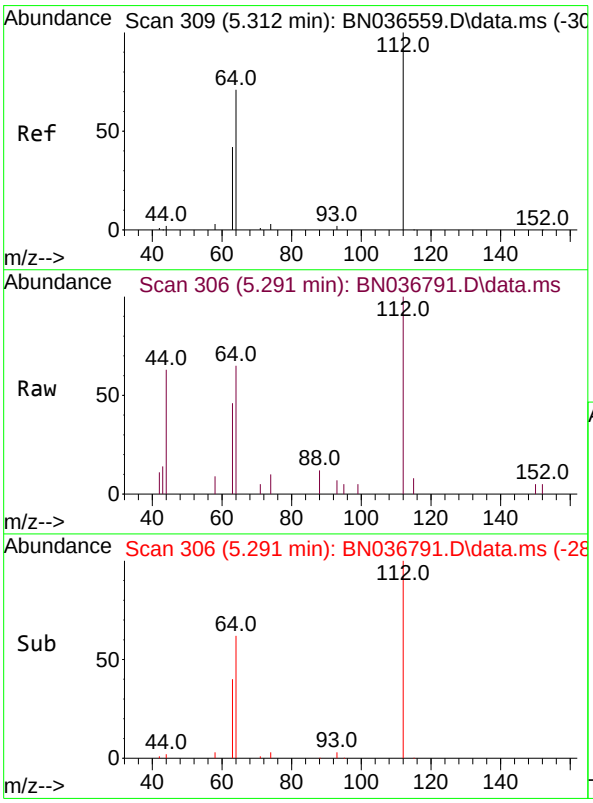
#3
n-Nitrosodimethylamine
Concen: 0.429 ng
RT: 3.543 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 42 Resp: 1757

Ion	Ratio	Lower	Upper
42	100		
74	67.4	60.6	90.8
44	6.6	6.3	9.5

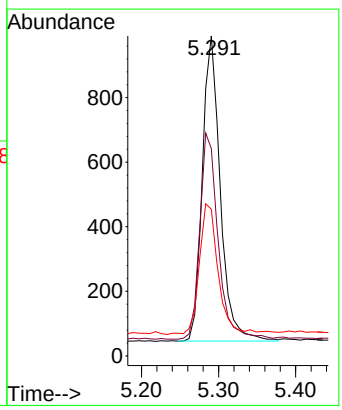


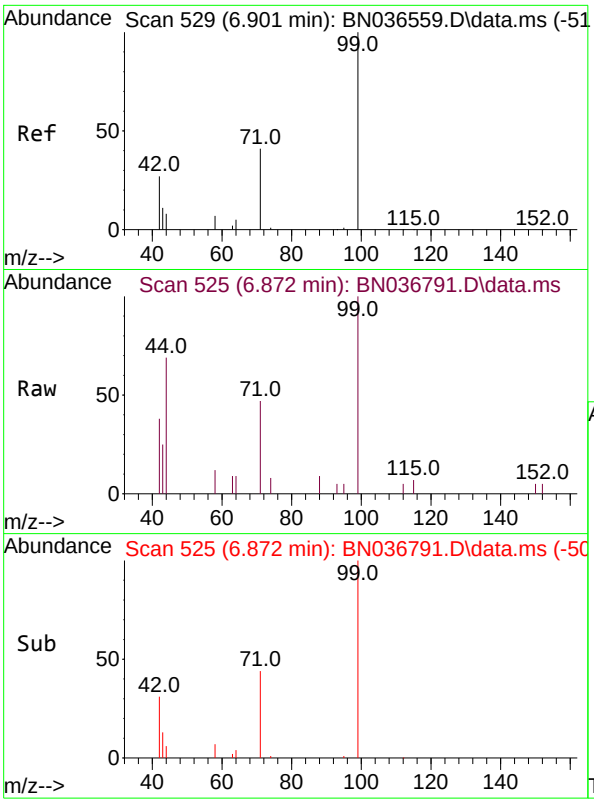


#4
2-Fluorophenol
Concen: 0.357 ng
RT: 5.291 min Scan# 306
Delta R.T. -0.021 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:112 Resp: 1521

Ion	Ratio	Lower	Upper
112	100		
64	68.8	53.1	79.7
63	46.2	31.8	47.8



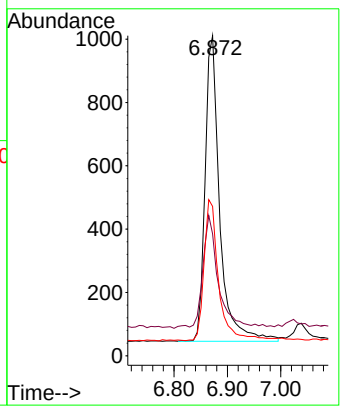


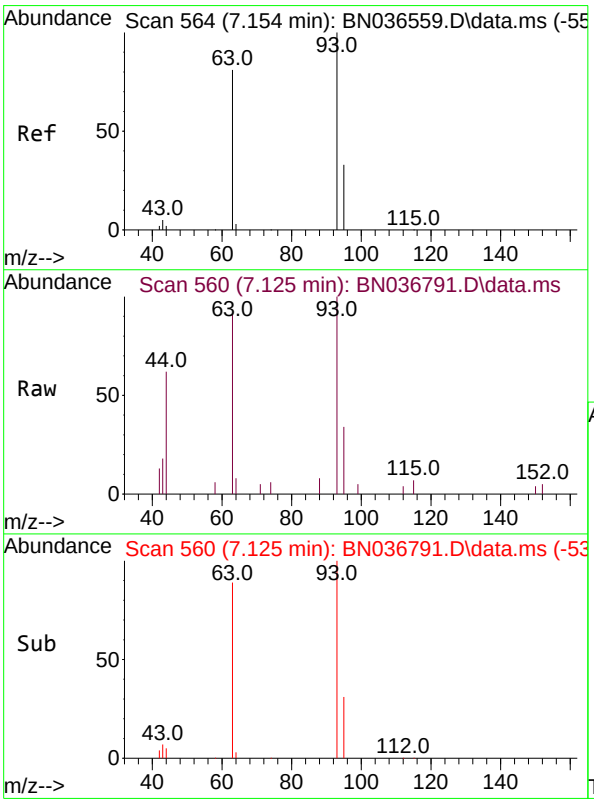
#5
Phenol-d6
Concen: 0.350 ng
RT: 6.872 min Scan# 5
Delta R.T. -0.029 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 99 Resp: 1838

Ion	Ratio	Lower	Upper
99	100		
42	38.7	26.5	39.7
71	46.1	34.1	51.1

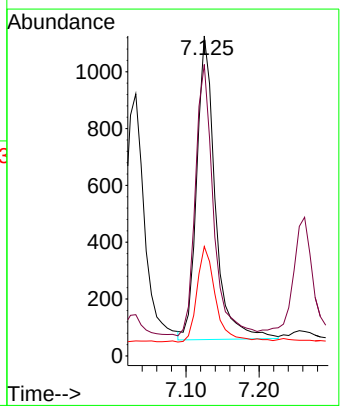


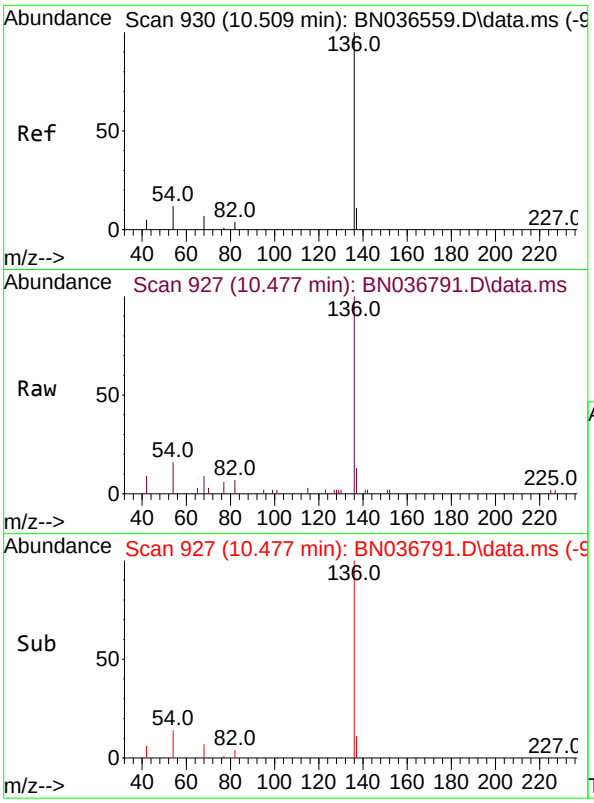


#6
bis(2-Chloroethyl)ether
Concen: 0.346 ng
RT: 7.125 min Scan# 560
Delta R.T. -0.029 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion: 93 Resp: 1880

Ion	Ratio	Lower	Upper
93	100		
63	85.9	67.7	101.5
95	31.5	25.6	38.4



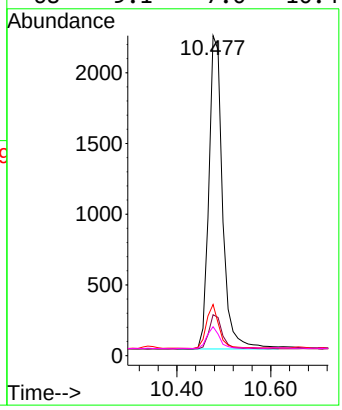


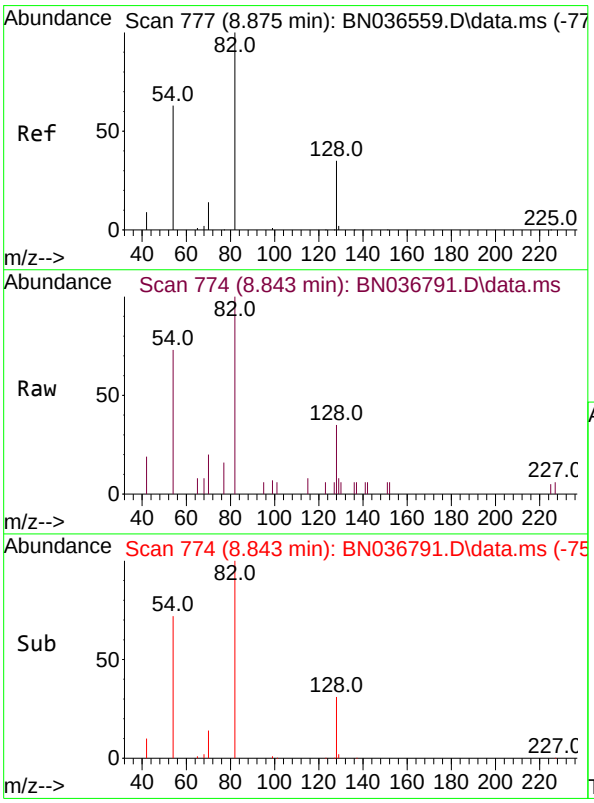
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.477 min Scan# 9
Delta R.T. -0.032 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:136 Resp: 4490

Ion	Ratio	Lower	Upper
136	100		
137	12.8	10.3	15.5
54	16.0	11.5	17.3
68	9.1	7.0	10.4

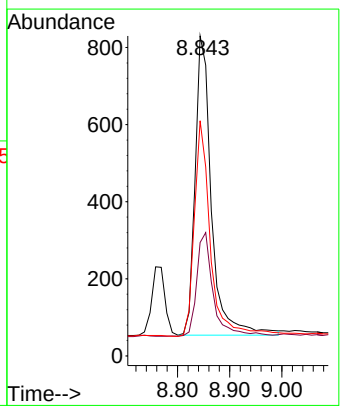


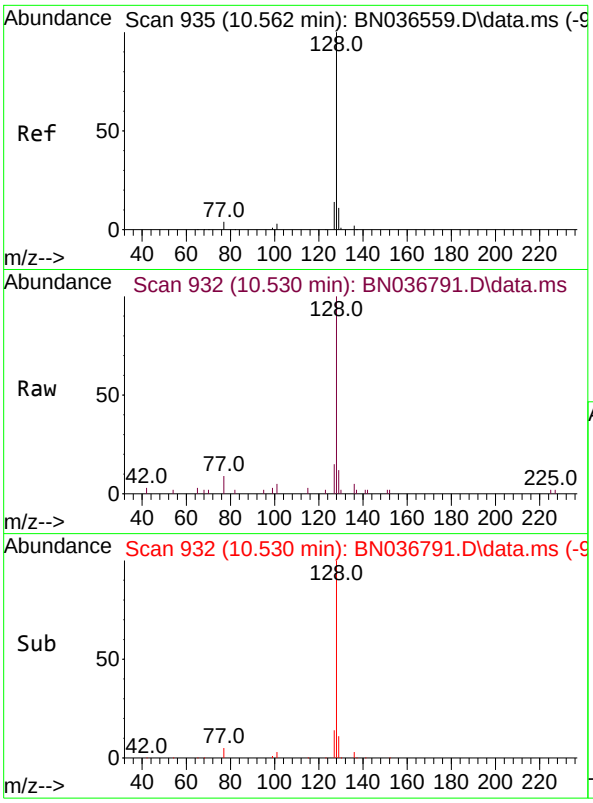


#8
Nitrobenzene-d5
Concen: 0.346 ng
RT: 8.843 min Scan# 774
Delta R.T. -0.032 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion: 82 Resp: 1689

Ion	Ratio	Lower	Upper
82	100		
128	35.4	30.6	45.8
54	73.5	52.2	78.4



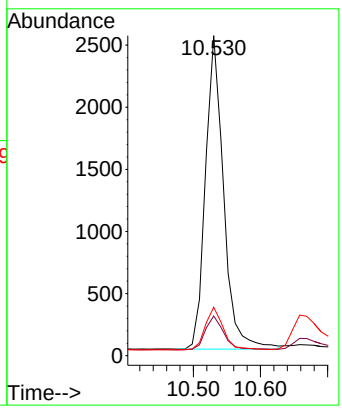


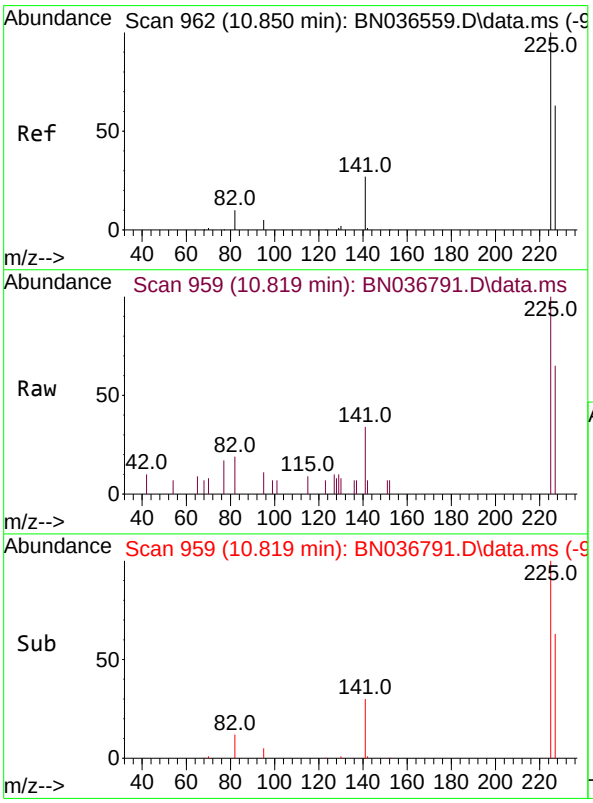
#9
Naphthalene
Concen: 0.359 ng
RT: 10.530 min Scan# 9
Delta R.T. -0.032 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:128 Resp: 4740

Ion	Ratio	Lower	Upper
128	100		
129	12.4	9.8	14.6
127	15.2	11.8	17.8

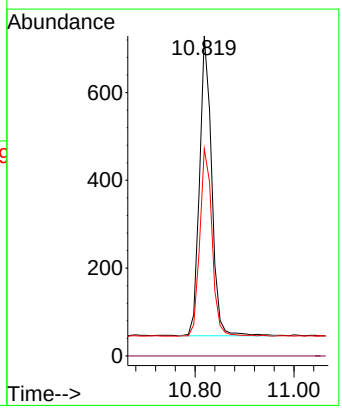


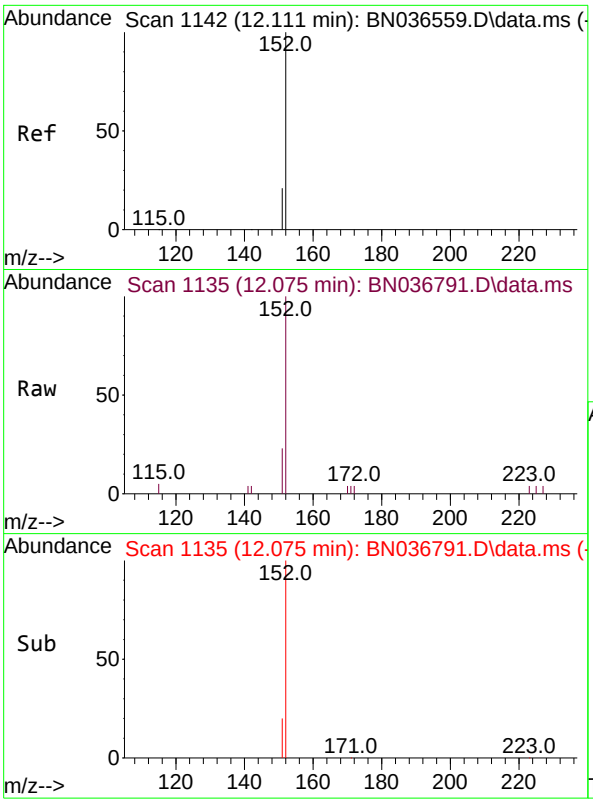


#10
Hexachlorobutadiene
Concen: 0.373 ng
RT: 10.819 min Scan# 959
Delta R.T. -0.032 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:225 Resp: 1160

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.4	51.8	77.8



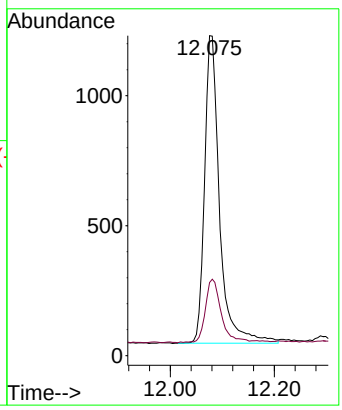


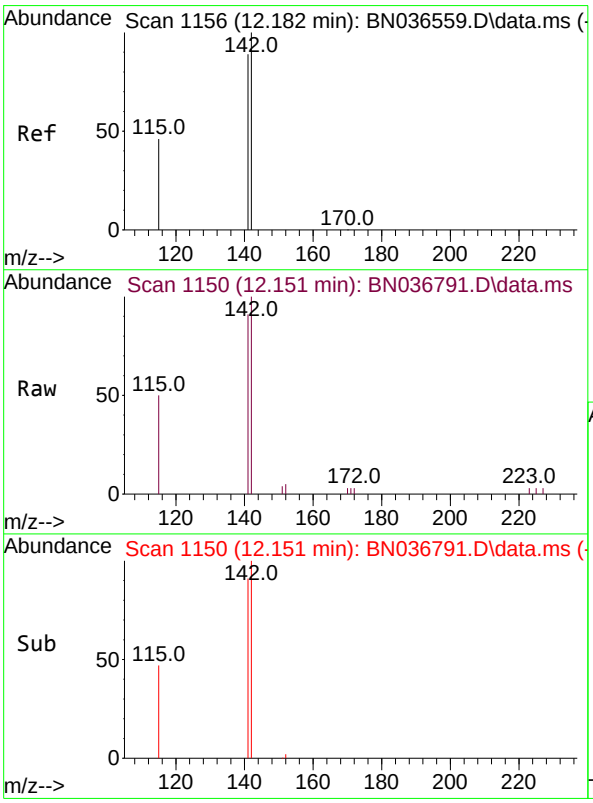
#11
2-Methylnaphthalene-d10
Concen: 0.354 ng
RT: 12.075 min Scan# 11
Delta R.T. -0.035 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 2363

Ion	Ratio	Lower	Upper
152	100		
151	21.9	17.0	25.6

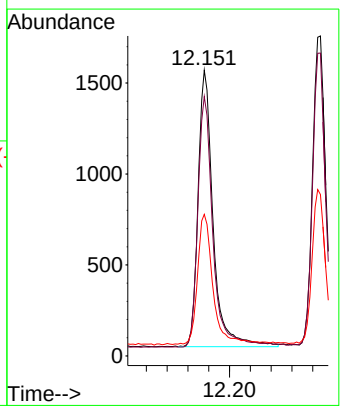


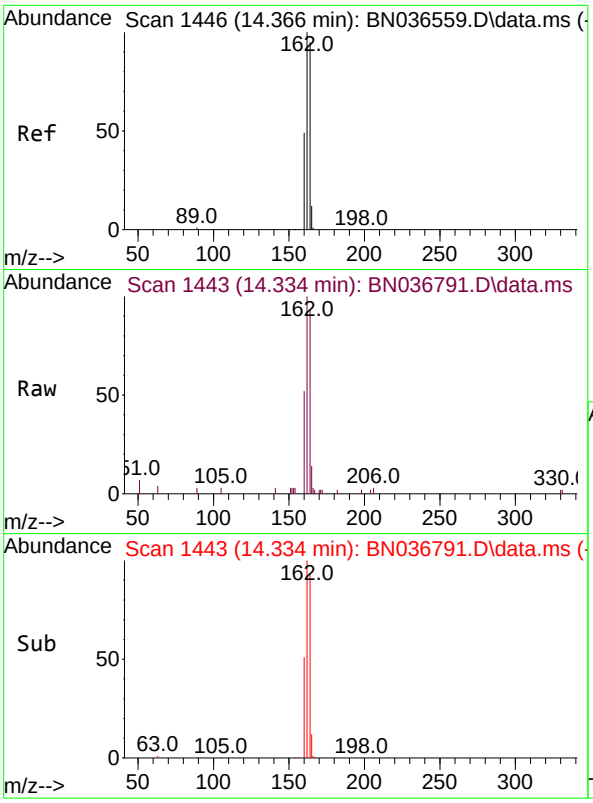


#12
2-Methylnaphthalene
Concen: 0.362 ng
RT: 12.151 min Scan# 1150
Delta R.T. -0.030 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:142 Resp: 3044

Ion	Ratio	Lower	Upper
142	100		
141	90.8	71.7	107.5
115	49.5	38.3	57.5



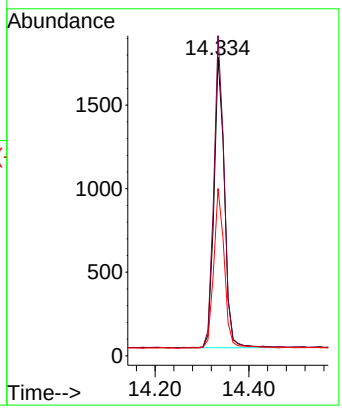


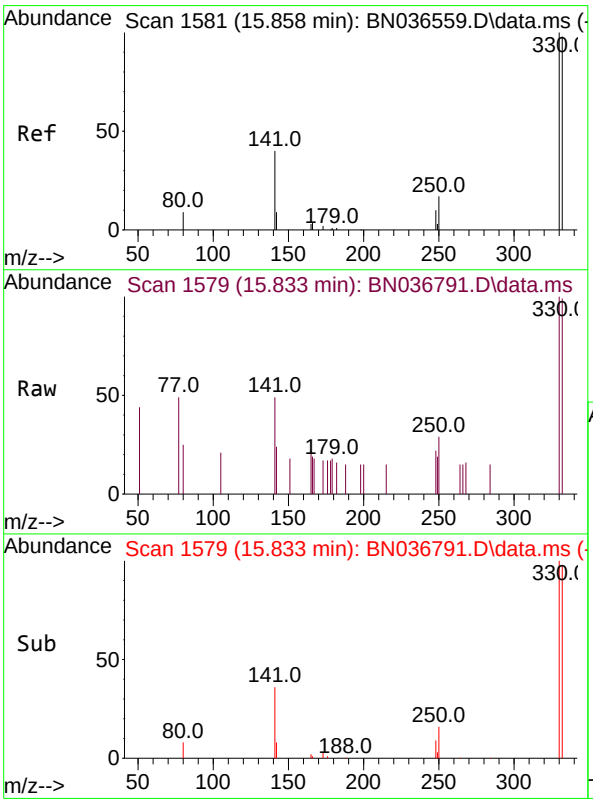
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:164 Resp: 2701

Ion	Ratio	Lower	Upper
164	100		
162	107.1	84.2	126.2
160	56.0	42.2	63.2

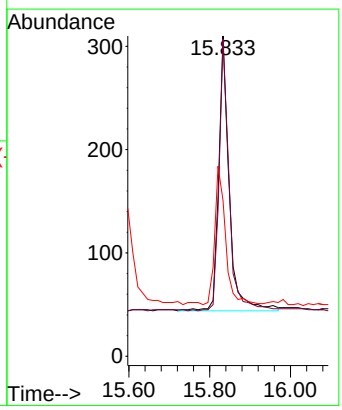


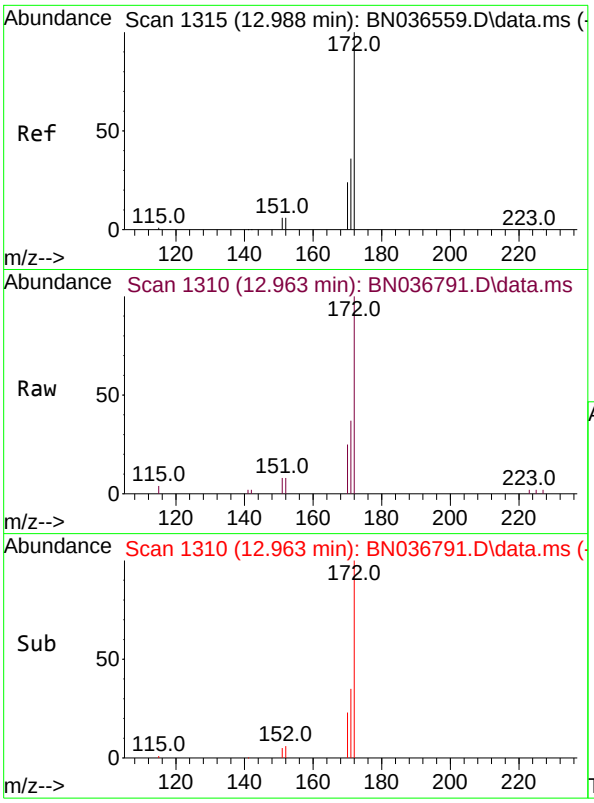


#14
2,4,6-Tribromophenol
Concen: 0.392 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.025 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:330 Resp: 481

Ion	Ratio	Lower	Upper
330	100		
332	94.4	75.2	112.8
141	51.4	43.4	65.2



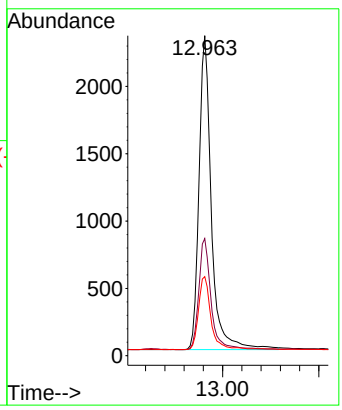


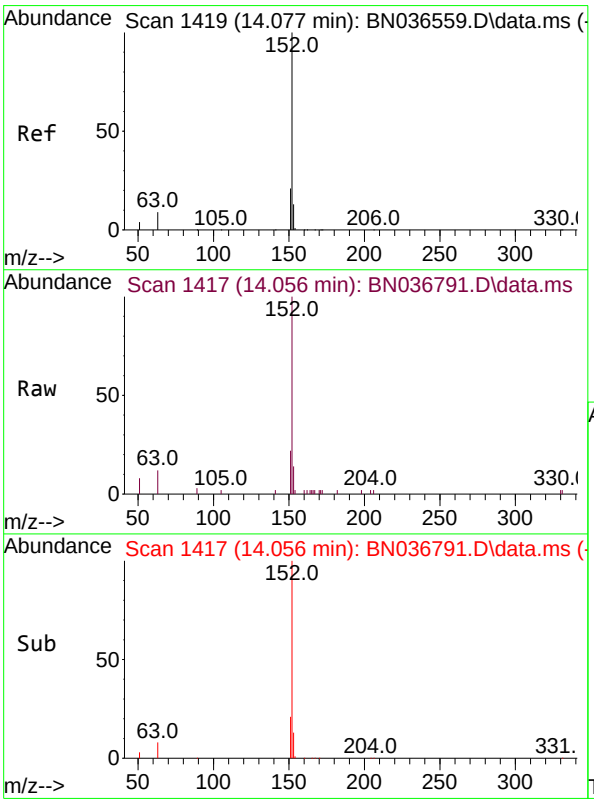
#15
2-Fluorobiphenyl
Concen: 0.351 ng
RT: 12.963 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:172 Resp: 5513

Ion	Ratio	Lower	Upper
172	100		
171	36.6	29.5	44.3
170	24.7	20.2	30.4

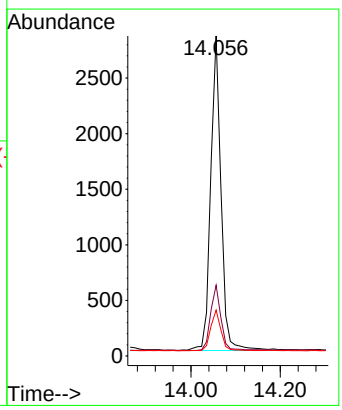


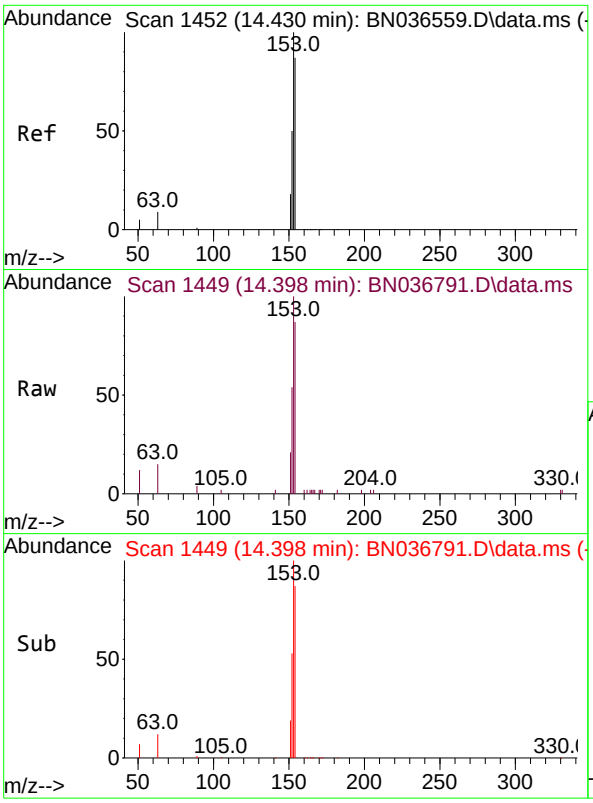


#16
Acenaphthylene
Concen: 0.356 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.021 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:152 Resp: 4532

Ion	Ratio	Lower	Upper
152	100		
151	21.1	16.2	24.4
153	13.0	10.6	15.8



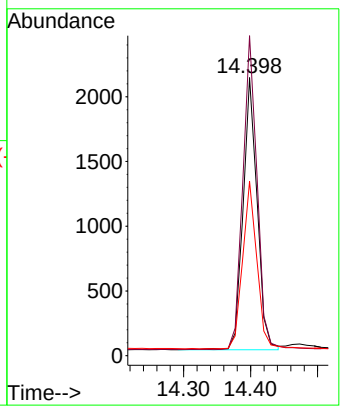


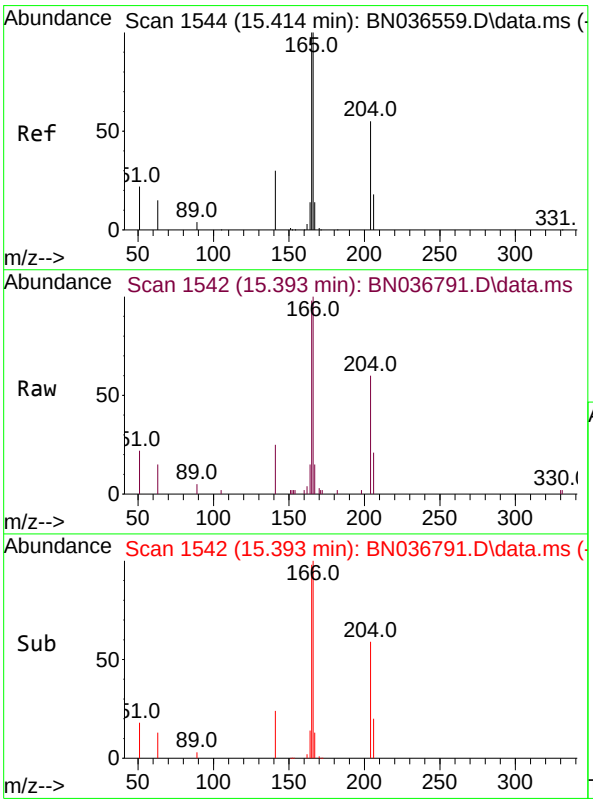
#17
Acenaphthene
Concen: 0.367 ng
RT: 14.398 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:154 Resp: 3064

Ion	Ratio	Lower	Upper
154	100		
153	118.0	94.1	141.1
152	62.9	49.8	74.6

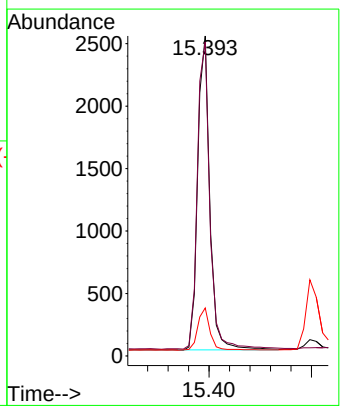


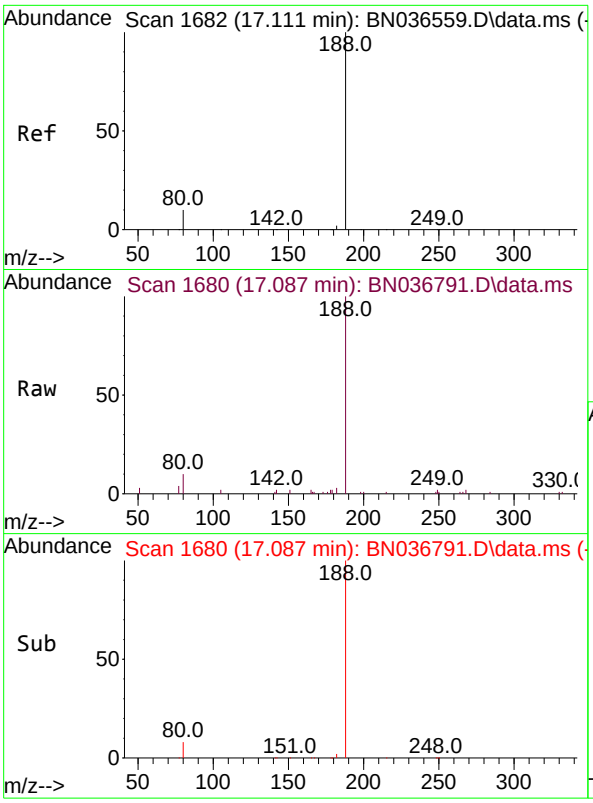


#18
Fluorene
Concen: 0.373 ng
RT: 15.393 min Scan# 1542
Delta R.T. -0.021 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:166 Resp: 4209

Ion	Ratio	Lower	Upper
166	100		
165	101.0	79.8	119.8
167	13.4	10.6	15.8



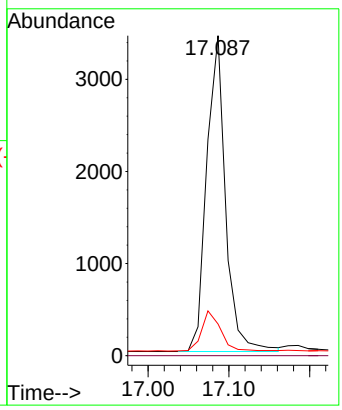


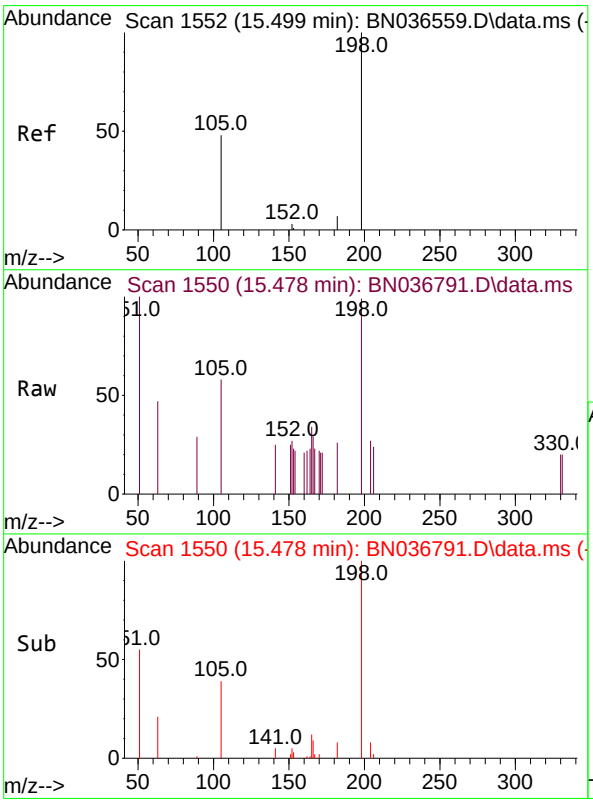
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.087 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:188 Resp: 5571

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.9	8.8	13.2

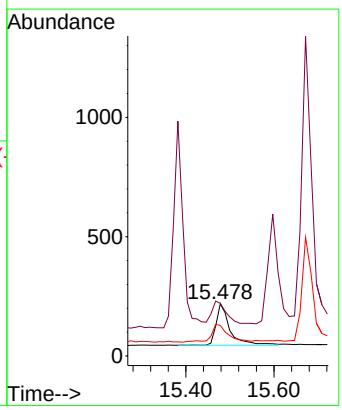


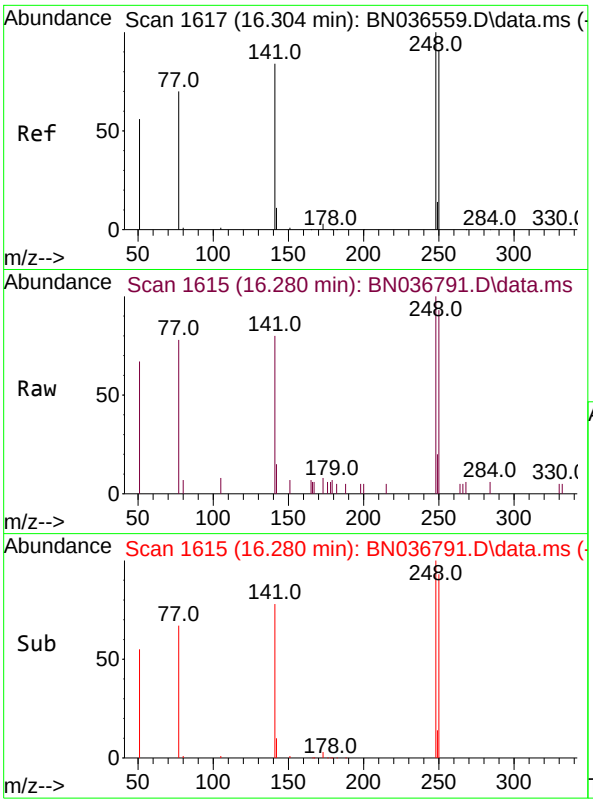


#20
4,6-Dinitro-2-methylphenol
Concen: 0.423 ng
RT: 15.478 min Scan# 1550
Delta R.T. -0.021 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:198 Resp: 395

Ion	Ratio	Lower	Upper
198	100		
51	100.9	107.9	161.9#
105	58.4	56.2	84.2



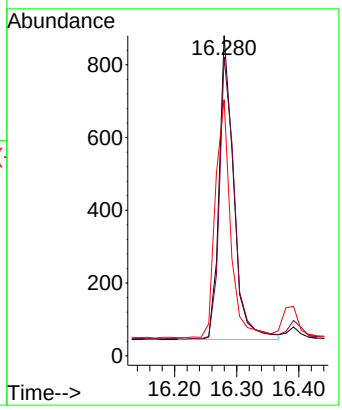


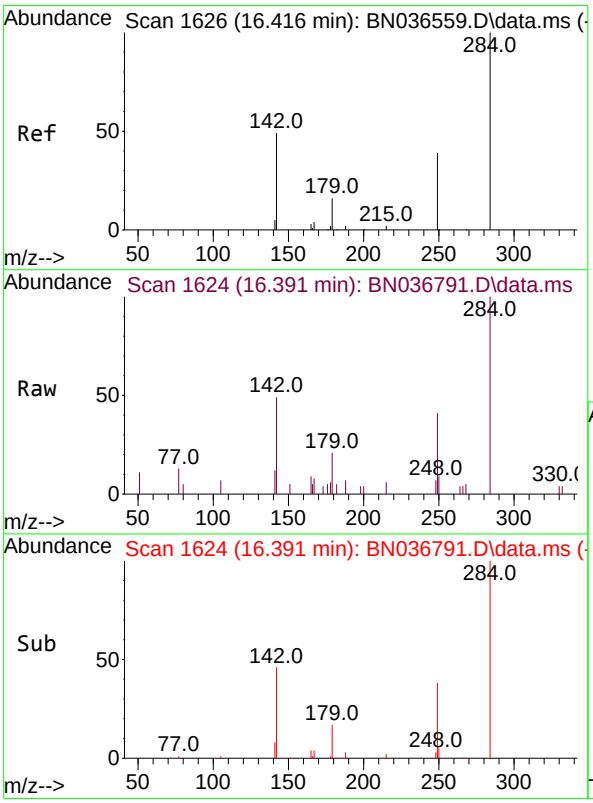
#21
4-Bromophenyl-phenylether
Concen: 0.388 ng
RT: 16.280 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:248 Resp: 1353

Ion	Ratio	Lower	Upper
248	100		
250	93.4	73.0	109.6
141	80.0	68.6	103.0

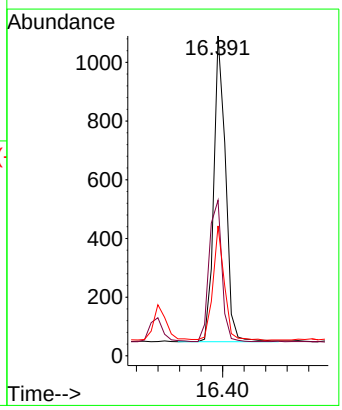


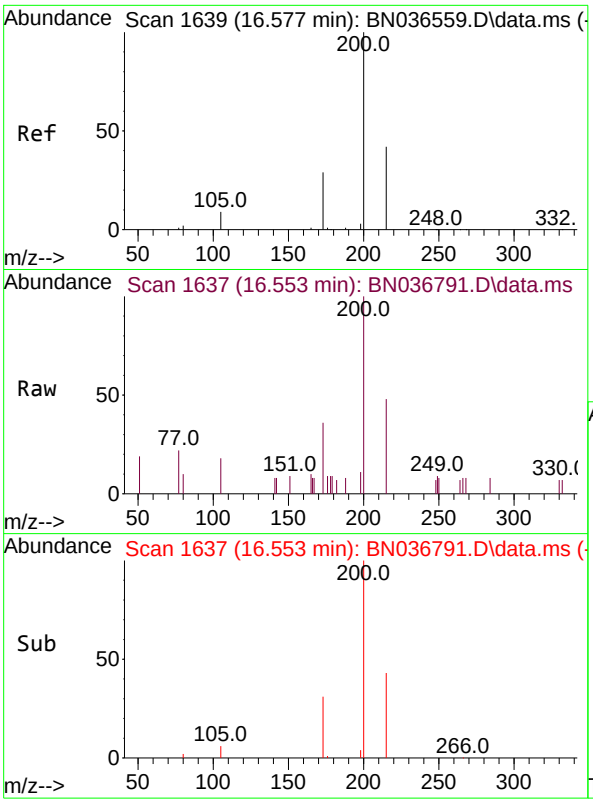


#22
Hexachlorobenzene
Concen: 0.375 ng
RT: 16.391 min Scan# 1624
Delta R.T. -0.025 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:284 Resp: 1582

Ion	Ratio	Lower	Upper
284	100		
142	49.7	37.0	55.4
249	35.6	28.1	42.1



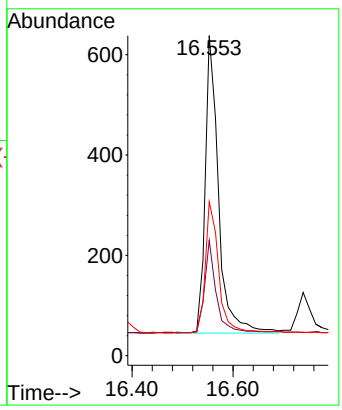


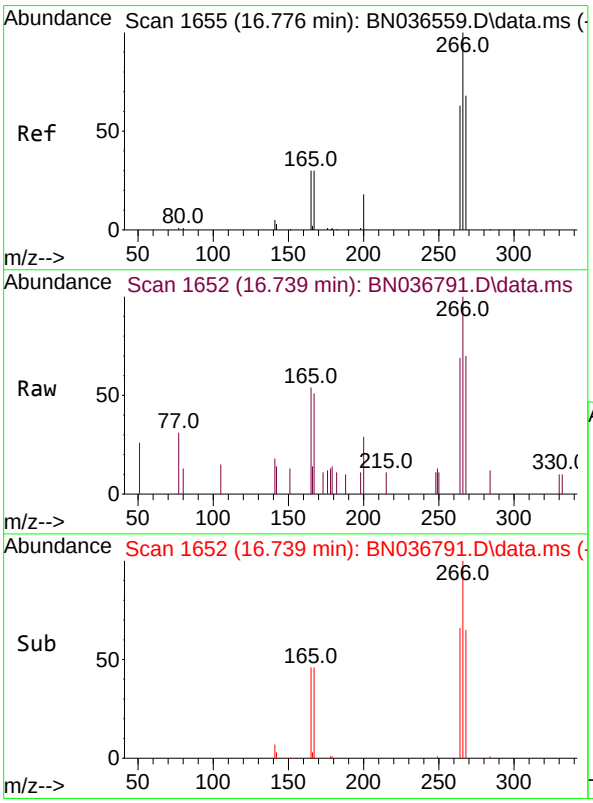
#23
Atrazine
Concen: 0.389 ng
RT: 16.553 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:200 Resp: 1090

Ion	Ratio	Lower	Upper
200	100		
173	36.1	27.3	40.9
215	48.1	36.8	55.2

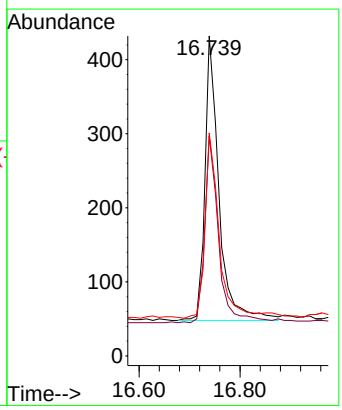


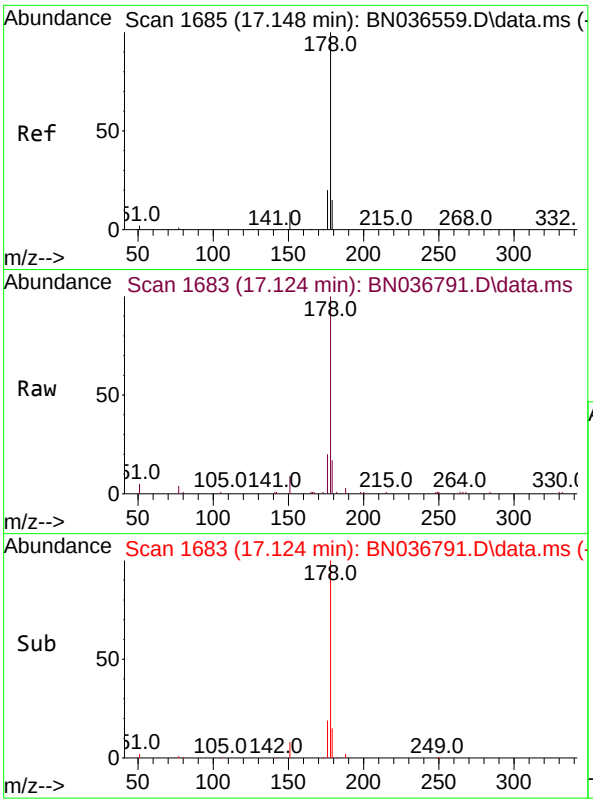


#24
Pentachlorophenol
Concen: 0.385 ng
RT: 16.739 min Scan# 1652
Delta R.T. -0.037 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:266 Resp: 740

Ion	Ratio	Lower	Upper
266	100		
264	64.5	49.6	74.4
268	64.9	50.9	76.3



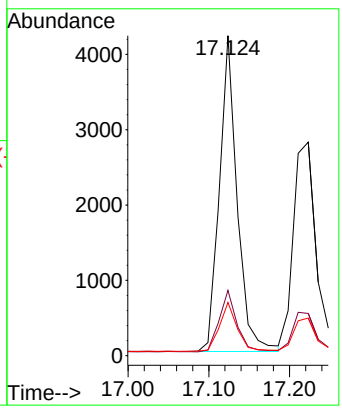


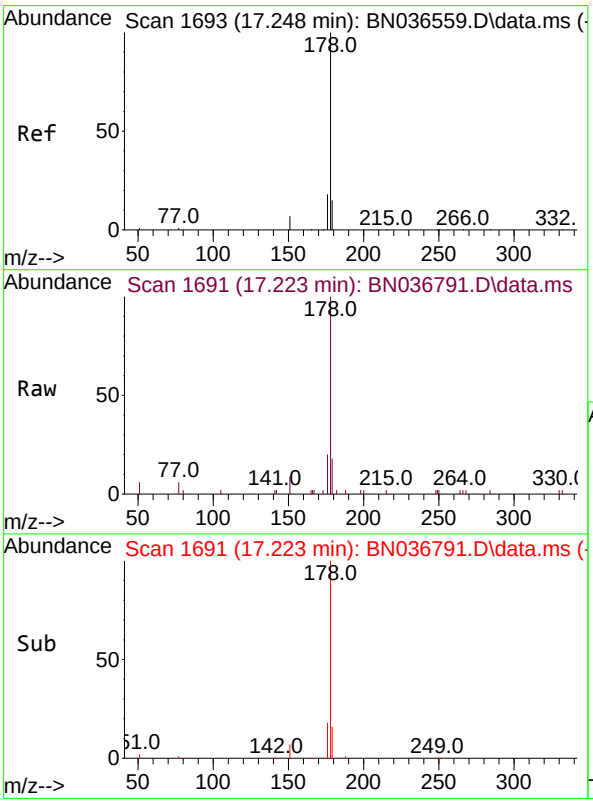
#25
Phenanthrene
Concen: 0.384 ng
RT: 17.124 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:178 Resp: 6416

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.9	23.9
179	16.0	12.2	18.4

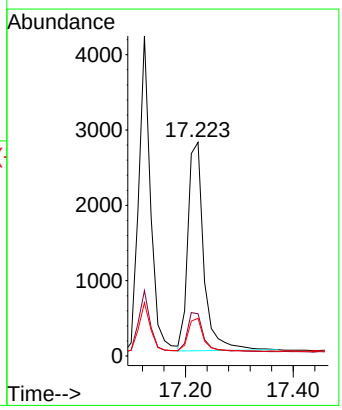


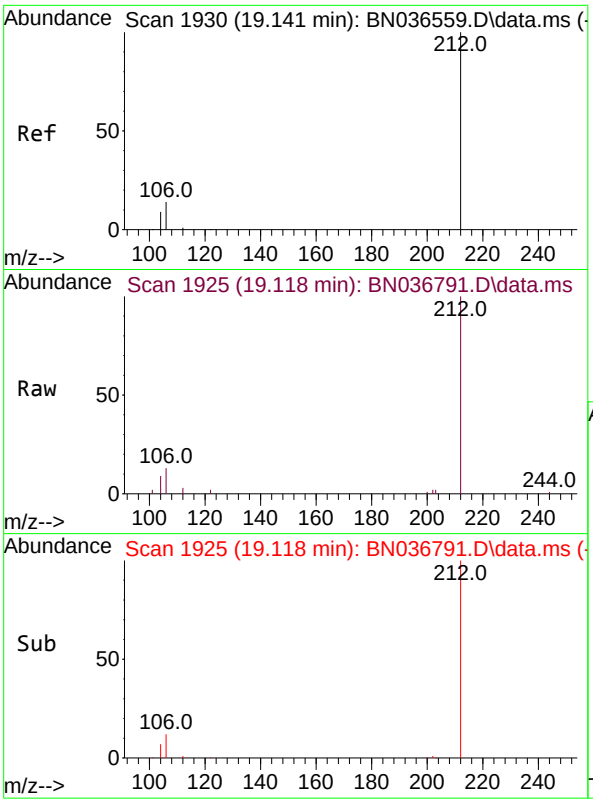


#26
Anthracene
Concen: 0.376 ng
RT: 17.223 min Scan# 1691
Delta R.T. -0.025 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:178 Resp: 5669

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.4	23.2
179	15.5	12.6	18.8



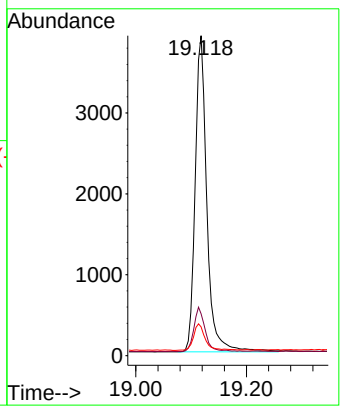


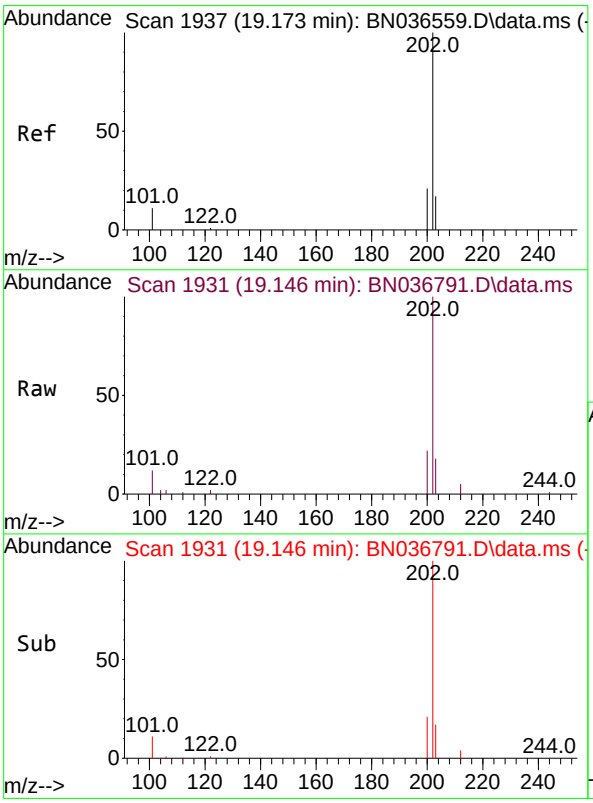
#27
Fluoranthene-d10
Concen: 0.403 ng
RT: 19.118 min Scan# 1
Delta R.T. -0.023 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:212 Resp: 5751

Ion	Ratio	Lower	Upper
212	100		
106	13.2	11.8	17.6
104	8.6	7.3	10.9

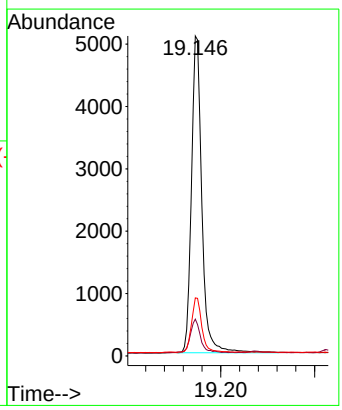


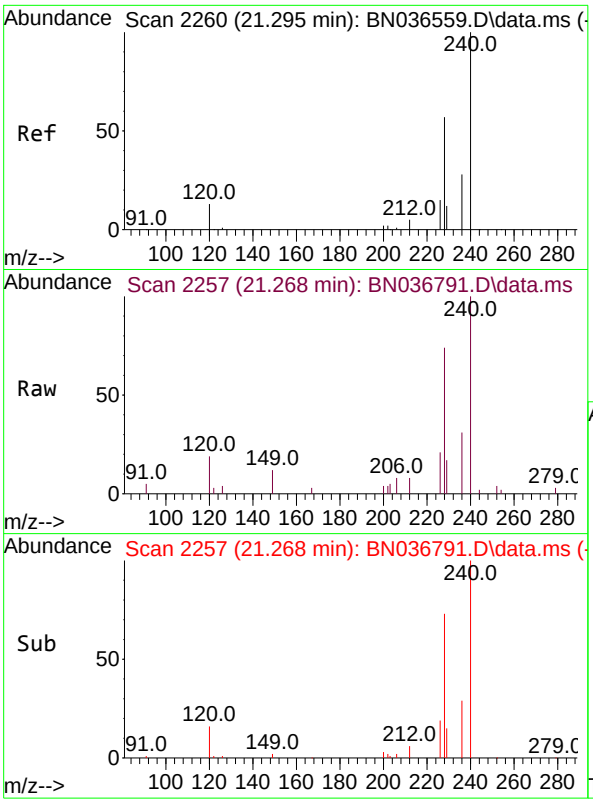


#28
Fluoranthene
Concen: 0.415 ng
RT: 19.146 min Scan# 1931
Delta R.T. -0.028 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:202 Resp: 7784

Ion	Ratio	Lower	Upper
202	100		
101	10.4	9.4	14.0
203	16.9	13.5	20.3



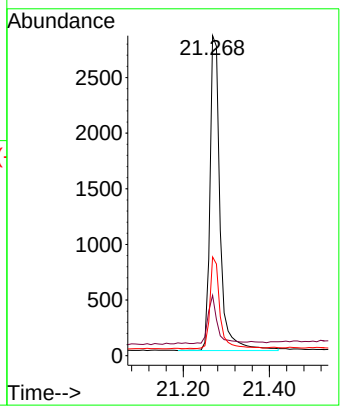


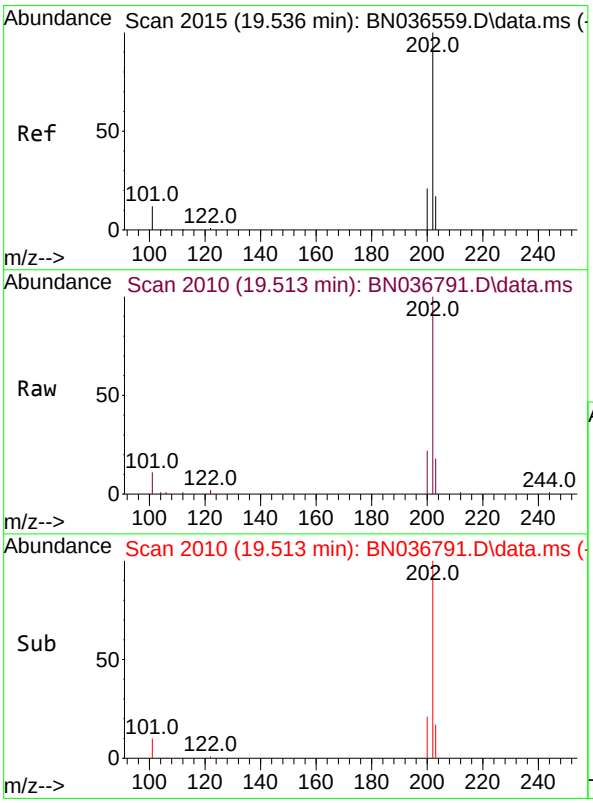
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.268 min Scan# 2
Delta R.T. -0.027 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:240 Resp: 4634

Ion	Ratio	Lower	Upper
240	100		
120	18.8	14.6	22.0
236	30.8	24.1	36.1

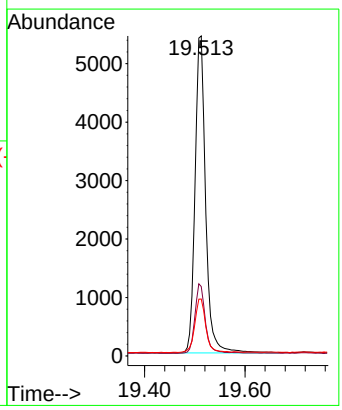


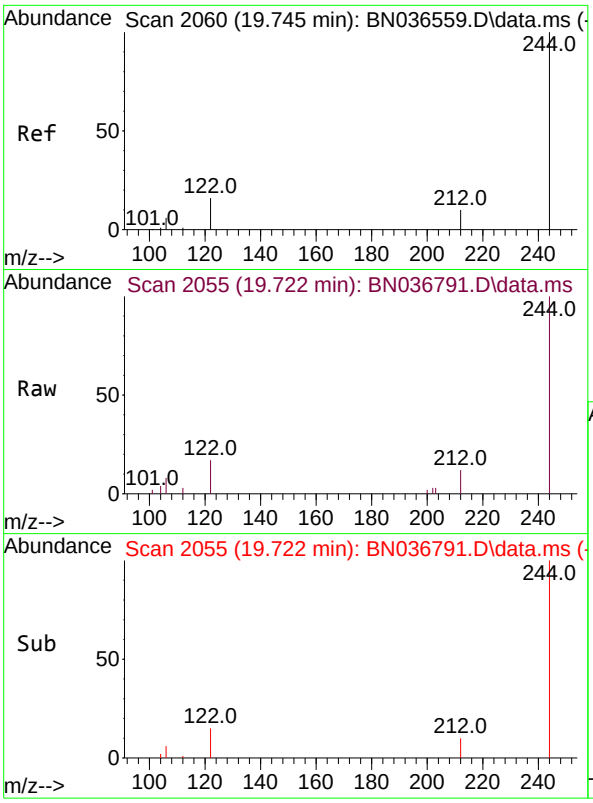


#30
Pyrene
Concen: 0.351 ng
RT: 19.513 min Scan# 2010
Delta R.T. -0.023 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:202 Resp: 7947

Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.1	25.7
203	17.5	14.1	21.1



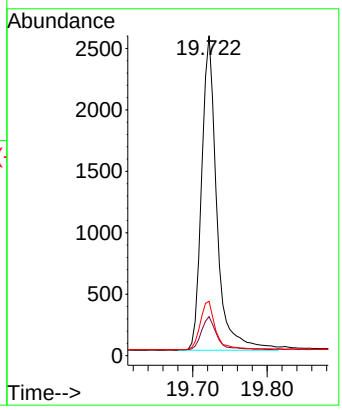


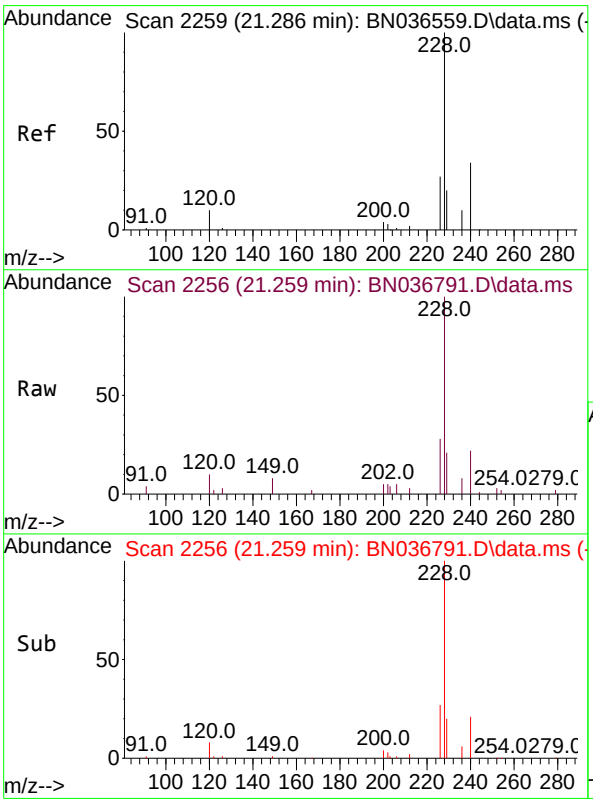
#31
Terphenyl-d14
Concen: 0.326 ng
RT: 19.722 min Scan# 2
Delta R.T. -0.023 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:244 Resp: 3623

Ion	Ratio	Lower	Upper
244	100		
212	12.2	9.6	14.4
122	17.0	13.9	20.9

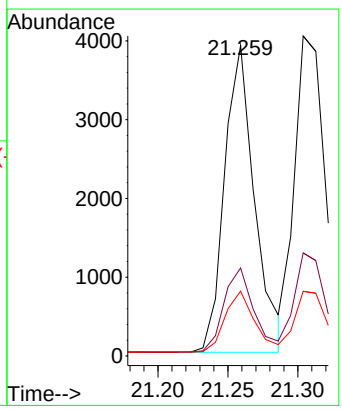


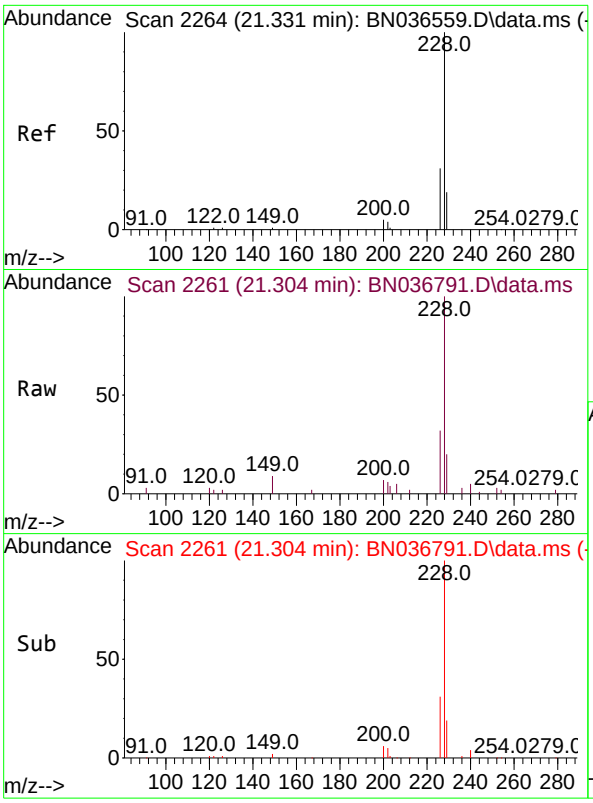


#32
Benzo(a)anthracene
Concen: 0.363 ng
RT: 21.259 min Scan# 2256
Delta R.T. -0.027 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:228 Resp: 5842

Ion	Ratio	Lower	Upper
228	100		
226	28.3	22.5	33.7
229	20.9	16.6	25.0



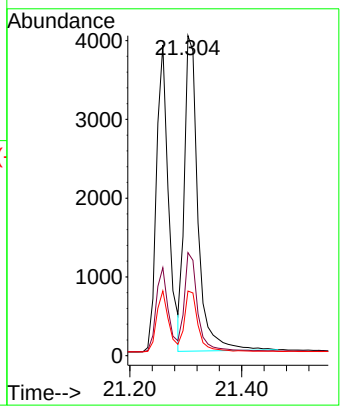


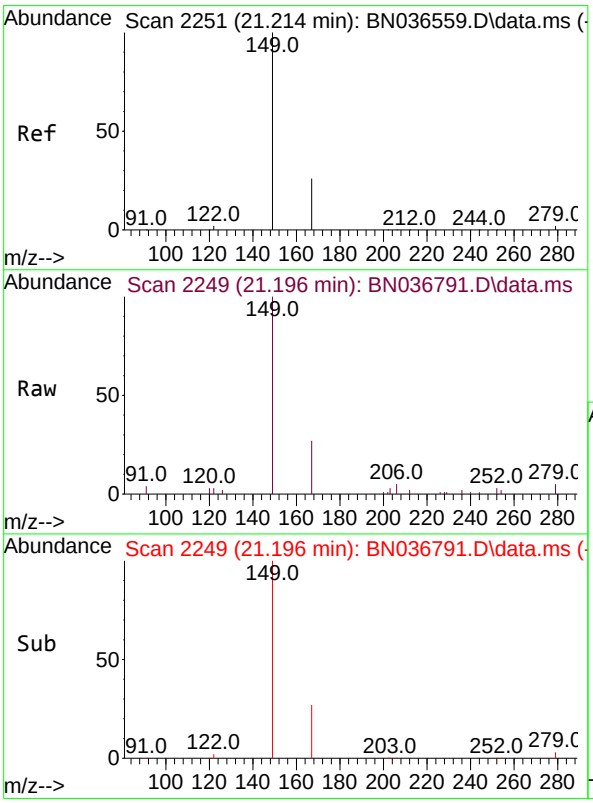
#33
Chrysene
Concen: 0.385 ng
RT: 21.304 min Scan# 2
Delta R.T. -0.027 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:228 Resp: 6781

Ion	Ratio	Lower	Upper
228	100		
226	32.2	25.3	37.9
229	20.2	15.8	23.8

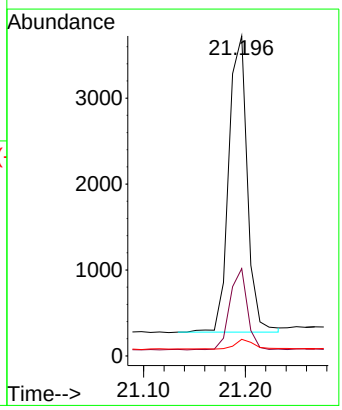


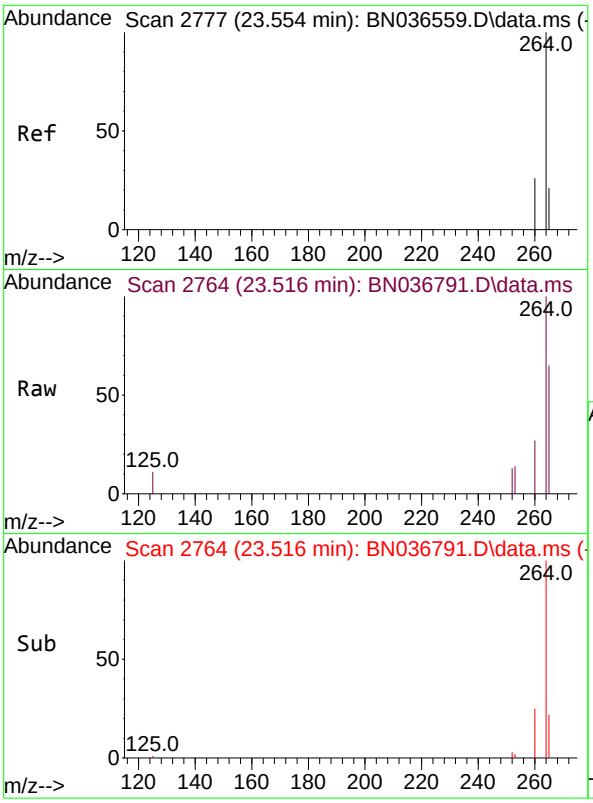


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.380 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:149 Resp: 4355

Ion	Ratio	Lower	Upper
149	100		
167	25.9	20.7	31.1
279	3.3	3.6	5.4#



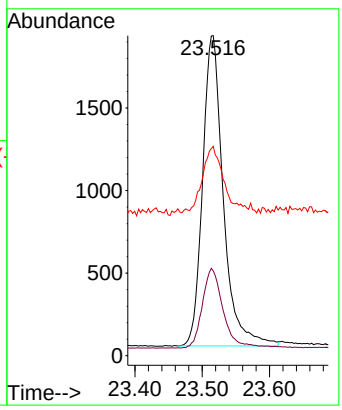


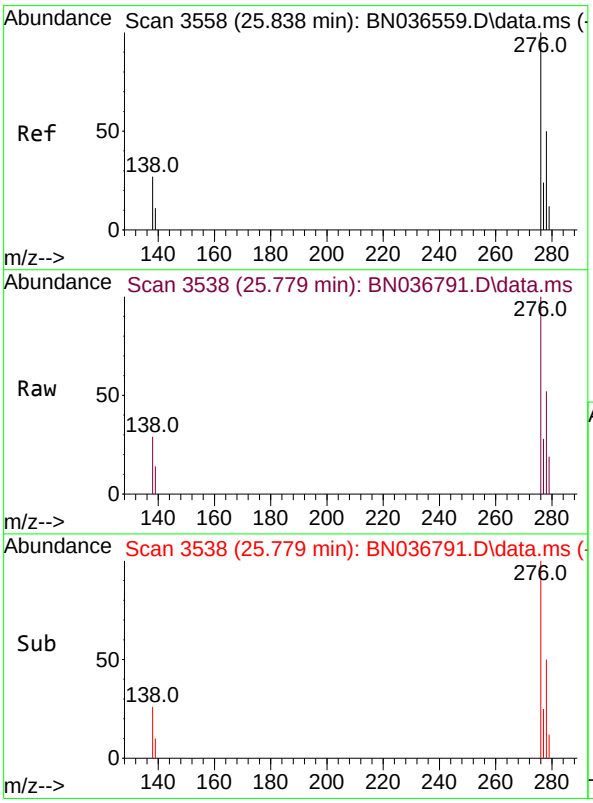
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.516 min Scan# 2
Delta R.T. -0.038 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:264 Resp: 4032

Ion	Ratio	Lower	Upper
264	100		
260	26.5	22.6	33.8
265	65.4	88.1	132.1#

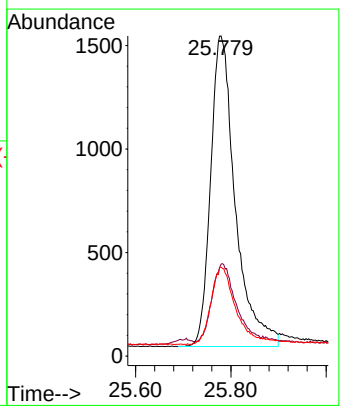


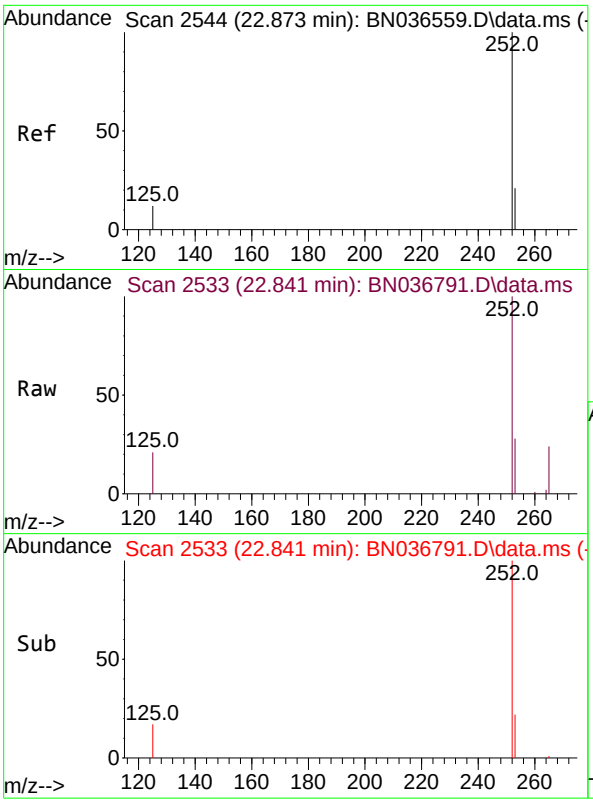


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.372 ng
RT: 25.779 min Scan# 3538
Delta R.T. -0.058 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:276 Resp: 5407

Ion	Ratio	Lower	Upper
276	100		
138	24.1	23.4	35.2
277	25.4	20.0	30.0



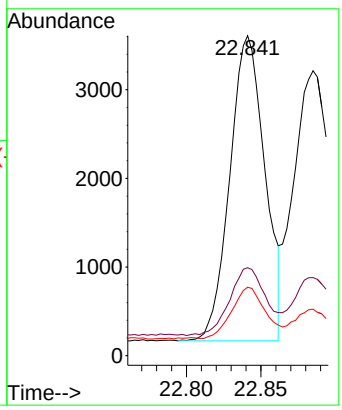


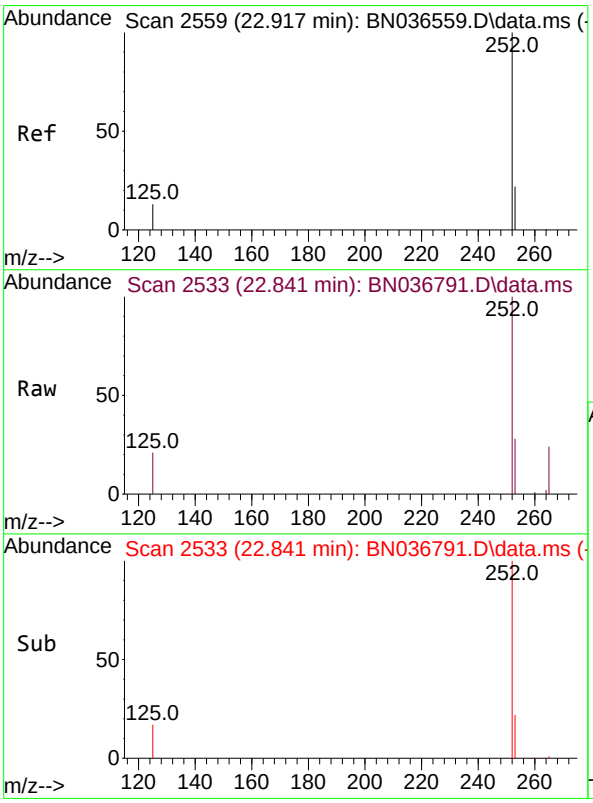
#37
Benzo(b)fluoranthene
Concen: 0.383 ng
RT: 22.841 min Scan# 2
Delta R.T. -0.032 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 5627

Ion	Ratio	Lower	Upper
252	100		
253	27.5	23.9	35.9
125	21.4	17.4	26.2

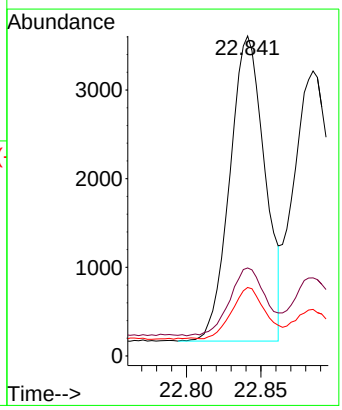


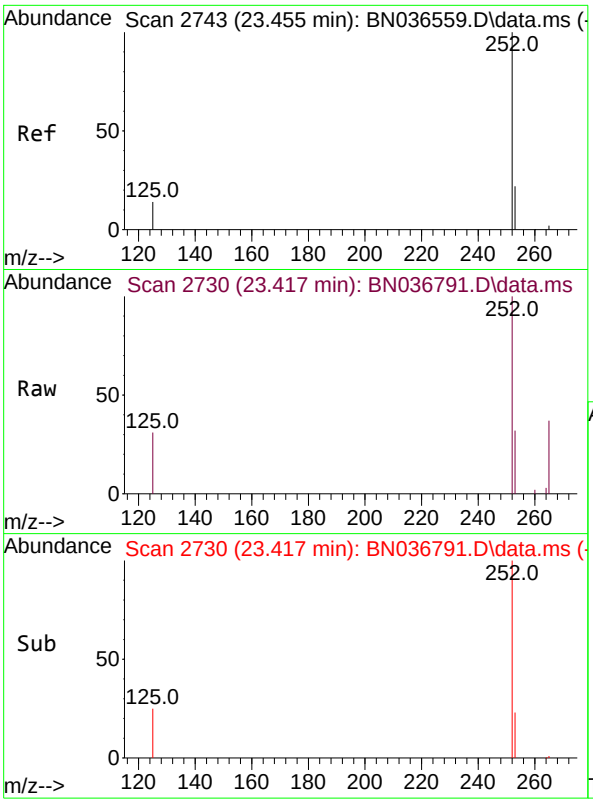


#38
Benzo(k)fluoranthene
Concen: 0.366 ng
RT: 22.841 min Scan# 2533
Delta R.T. -0.076 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:252 Resp: 5627

Ion	Ratio	Lower	Upper
252	100		
253	27.5	24.6	36.8
125	21.4	17.8	26.8



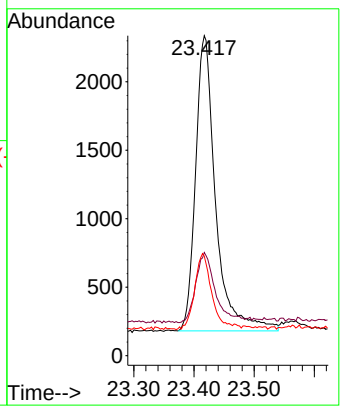


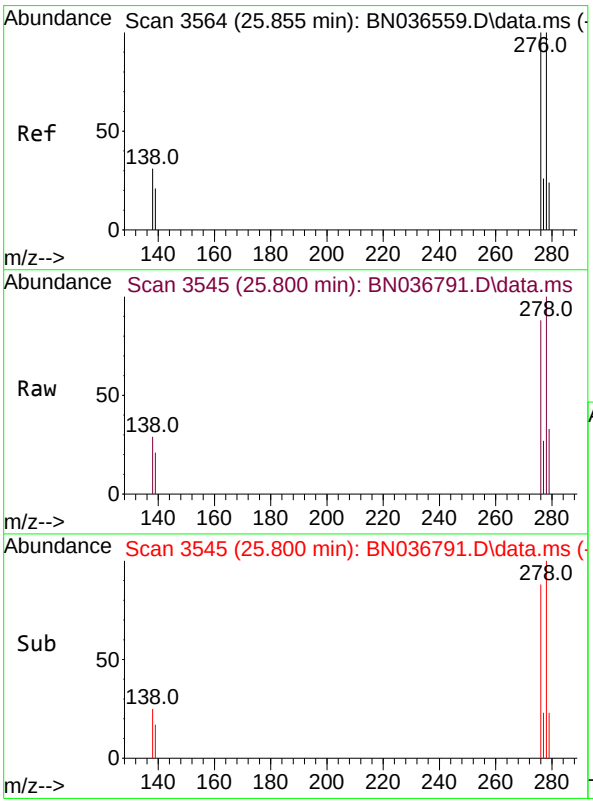
#39
Benzo(a)pyrene
Concen: 0.404 ng
RT: 23.417 min Scan# 2
Delta R.T. -0.038 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 4993

Ion	Ratio	Lower	Upper
252	100		
253	32.3	27.8	41.8
125	31.1	22.7	34.1

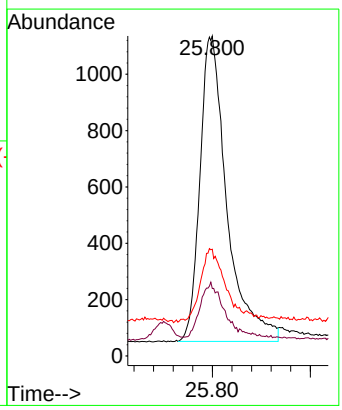


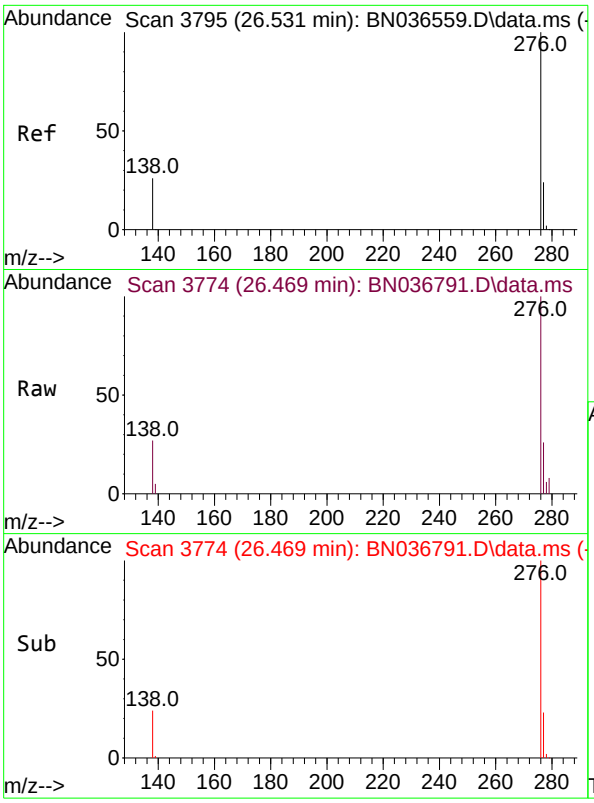


#40
Dibenzo(a,h)anthracene
Concen: 0.366 ng
RT: 25.800 min Scan# 3545
Delta R.T. -0.055 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:278 Resp: 4150

Ion	Ratio	Lower	Upper
278	100		
139	21.1	20.8	31.2
279	33.4	28.8	43.2



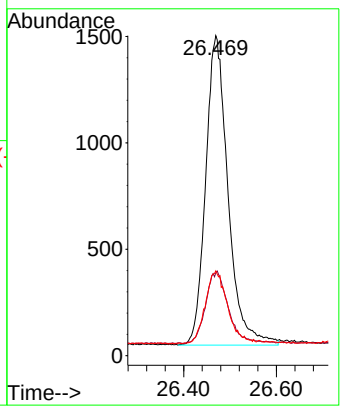


#41
Benzo(g,h,i)perylene
Concen: 0.376 ng
RT: 26.469 min Scan# 3
Delta R.T. -0.061 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:276 Resp: 4876

Ion	Ratio	Lower	Upper
276	100		
277	25.9	22.2	33.4
138	26.5	24.1	36.1



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
Data File : BN036807.D
Acq On : 29 Mar 2025 12:21
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 38 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Mar 31 02:01:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

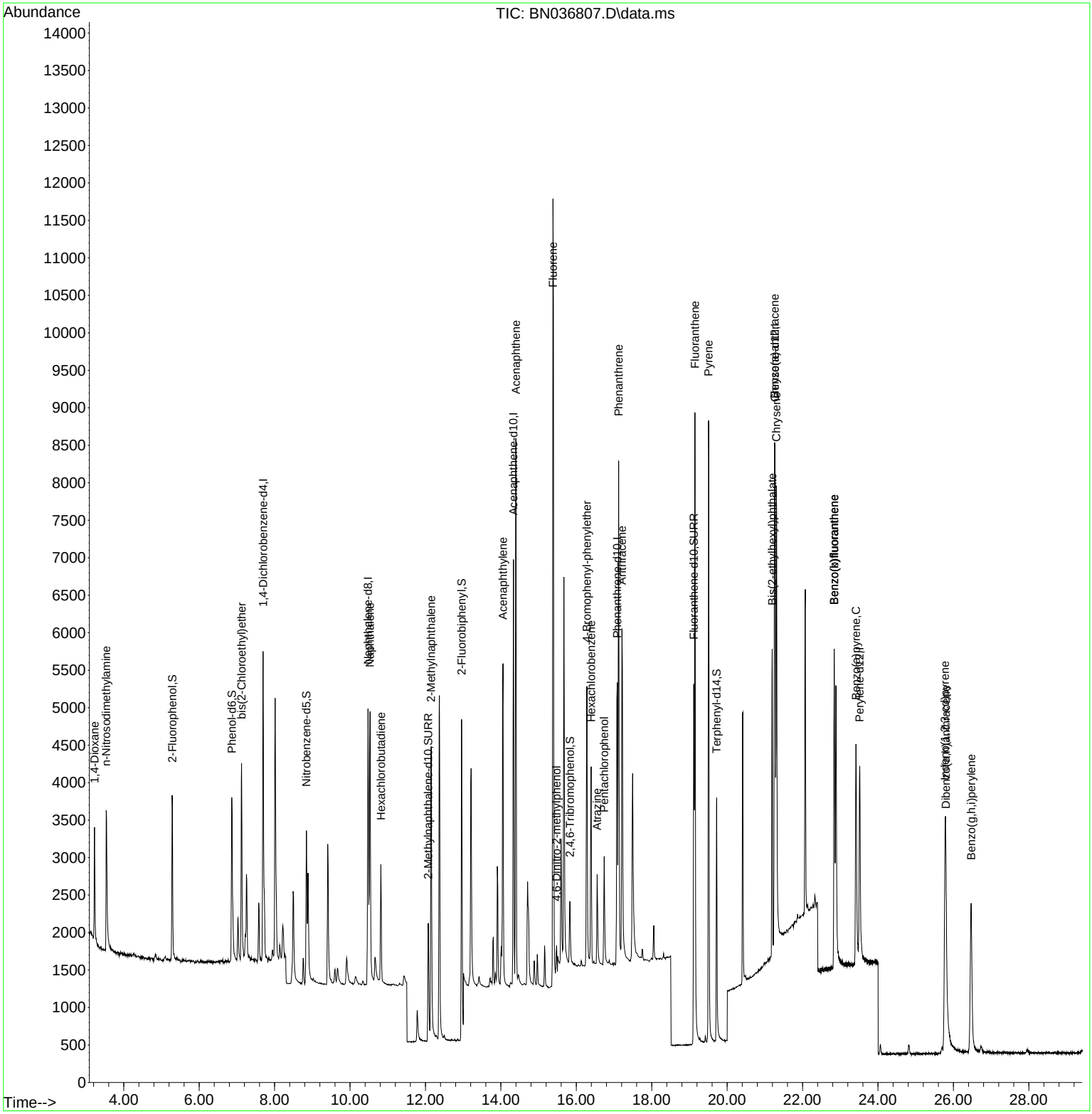
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.695	152	1976	0.400	ng		-0.03
7) Naphthalene-d8	10.477	136	4956	0.400	ng		-0.03
13) Acenaphthene-d10	14.334	164	3044	0.400	ng		-0.03
19) Phenanthrene-d10	17.086	188	6169	0.400	ng		#-0.02
29) Chrysene-d12	21.268	240	4366	0.400	ng		-0.03
35) Perylene-d12	23.516	264	3818	0.400	ng		#-0.04
System Monitoring Compounds							
4) 2-Fluorophenol	5.290	112	1649	0.358	ng		-0.02
5) Phenol-d6	6.865	99	1932	0.340	ng		-0.04
8) Nitrobenzene-d5	8.843	82	1802	0.334	ng		-0.03
11) 2-Methylnaphthalene-d10	12.075	152	2608	0.354	ng		-0.04
14) 2,4,6-Tribromophenol	15.833	330	513	0.371	ng		-0.02
15) 2-Fluorobiphenyl	12.958	172	5830	0.329	ng		-0.03
27) Fluoranthene-d10	19.118	212	6077	0.384	ng		-0.02
31) Terphenyl-d14	19.722	244	3821	0.365	ng		-0.02
Target Compounds							Qvalue
2) 1,4-Dioxane	3.225	88	902	0.411	ng		97
3) n-Nitrosodimethylamine	3.535	42	1839	0.415	ng		92
6) bis(2-Chloroethyl)ether	7.125	93	1990	0.338	ng		99
9) Naphthalene	10.530	128	5183	0.356	ng		99
10) Hexachlorobutadiene	10.818	225	1228	0.358	ng	#	100
12) 2-Methylnaphthalene	12.151	142	3312	0.357	ng		98
16) Acenaphthylene	14.056	152	5001	0.348	ng		99
17) Acenaphthene	14.398	154	3395	0.361	ng		99
18) Fluorene	15.382	166	4624	0.364	ng		100
20) 4,6-Dinitro-2-methylph...	15.478	198	475	0.447	ng	#	73
21) 4-Bromophenyl-phenylether	16.280	248	1424	0.368	ng		93
22) Hexachlorobenzene	16.391	284	1729	0.371	ng		97
23) Atrazine	16.553	200	1168	0.377	ng		96
24) Pentachlorophenol	16.739	266	792	0.372	ng		99
25) Phenanthrene	17.124	178	6985	0.377	ng		100
26) Anthracene	17.211	178	6251	0.374	ng		98
28) Fluoranthene	19.146	202	8157	0.392	ng		98
30) Pyrene	19.508	202	8270	0.387	ng		100
32) Benzo(a)anthracene	21.259	228	5377	0.354	ng		100
33) Chrysene	21.304	228	6263	0.378	ng		99
34) Bis(2-ethylhexyl)phtha...	21.196	149	4162	0.385	ng	#	99
36) Indeno(1,2,3-cd)pyrene	25.779	276	5188	0.376	ng		93
37) Benzo(b)fluoranthene	22.841	252	5191	0.374	ng		98
38) Benzo(k)fluoranthene	22.841	252	5191	0.356	ng		97
39) Benzo(a)pyrene	23.417	252	4547	0.389	ng		96
40) Dibenzo(a,h)anthracene	25.800	278	3712	0.346	ng		96
41) Benzo(g,h,i)perylene	26.472	276	4558	0.371	ng		95

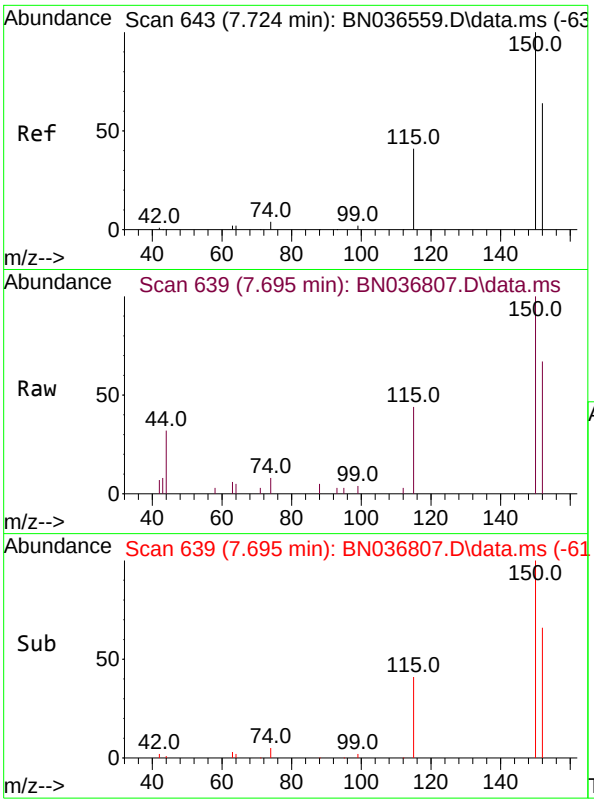
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
Data File : BN036807.D
Acq On : 29 Mar 2025 12:21
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 38 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Mar 31 02:01:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



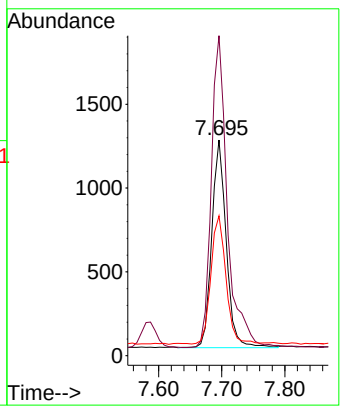


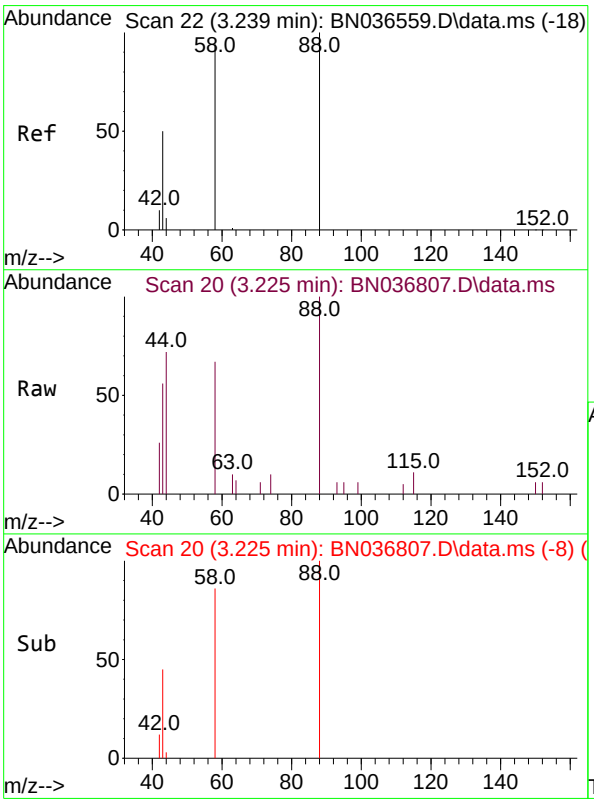
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.695 min Scan# 6
Delta R.T. -0.029 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 1976

Ion	Ratio	Lower	Upper
152	100		
150	148.3	123.7	185.5
115	64.8	54.3	81.5

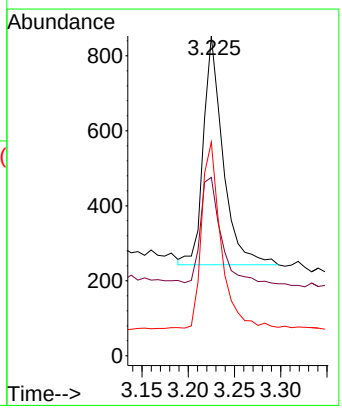


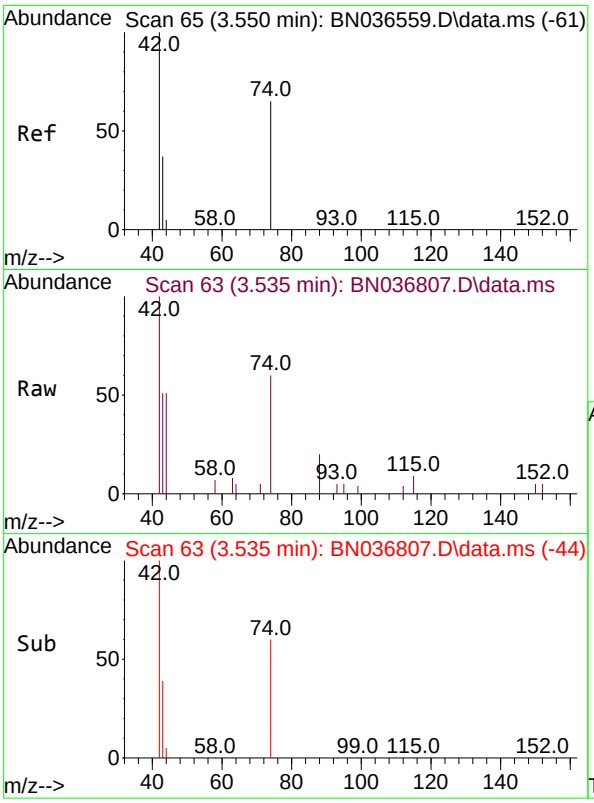


#2
1,4-Dioxane
Concen: 0.411 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion: 88 Resp: 902

Ion	Ratio	Lower	Upper
88	100		
43	48.6	37.8	56.8
58	81.3	67.4	101.2



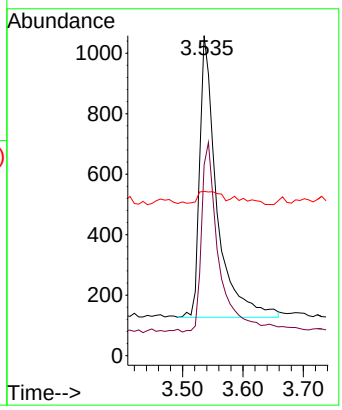


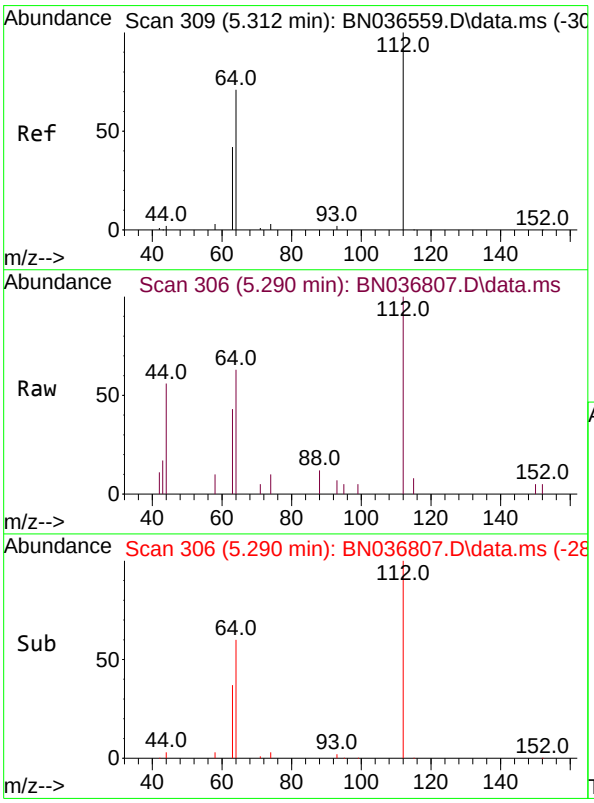
#3
n-Nitrosodimethylamine
Concen: 0.415 ng
RT: 3.535 min Scan# 6
Delta R.T. -0.014 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 42 Resp: 1839

Ion	Ratio	Lower	Upper
42	100		
74	68.4	60.6	90.8
44	6.7	6.3	9.5

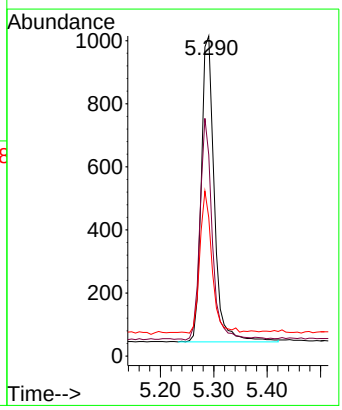


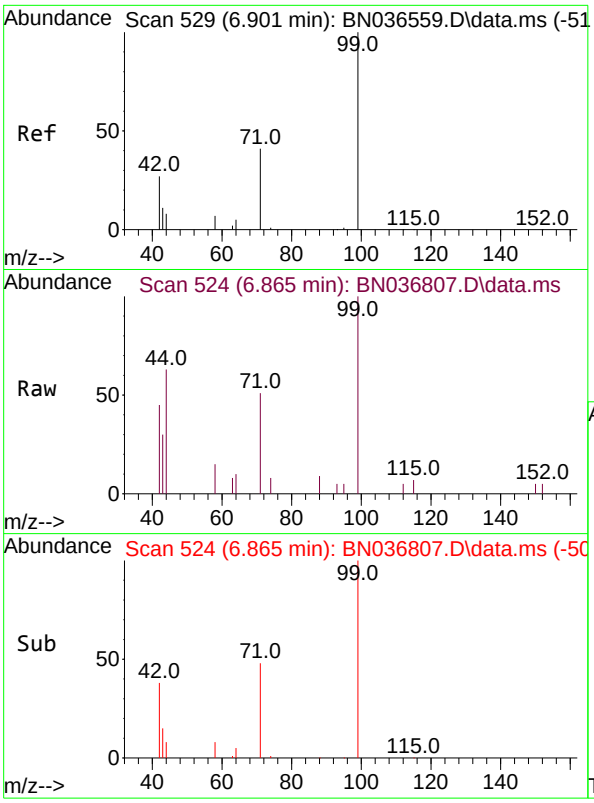


#4
2-Fluorophenol
Concen: 0.358 ng
RT: 5.290 min Scan# 306
Delta R.T. -0.022 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:112 Resp: 1649

Ion	Ratio	Lower	Upper
112	100		
64	68.3	53.1	79.7
63	42.4	31.8	47.8



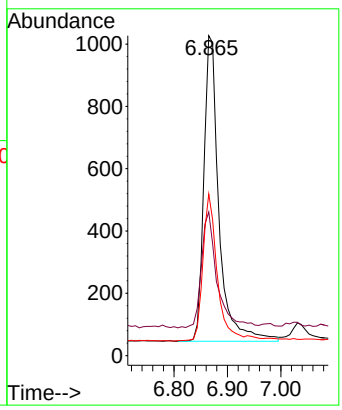


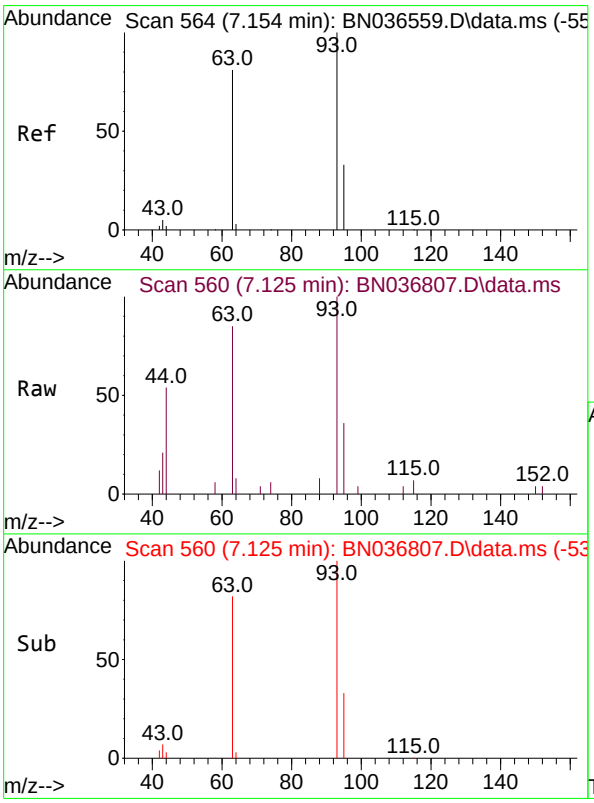
#5
Phenol-d6
Concen: 0.340 ng
RT: 6.865 min Scan# 5
Delta R.T. -0.036 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 99 Resp: 1932

Ion	Ratio	Lower	Upper
99	100		
42	39.4	26.5	39.7
71	46.4	34.1	51.1

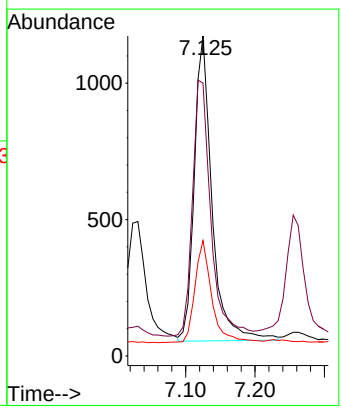


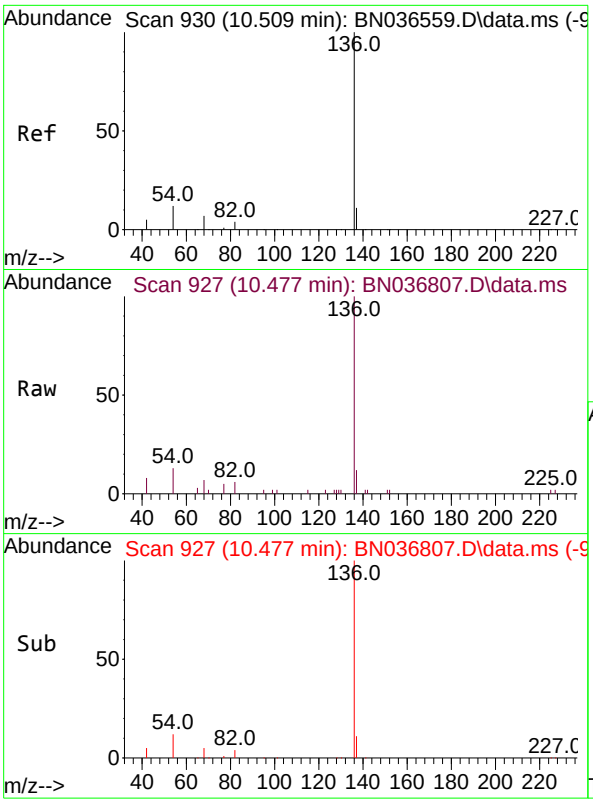


#6
bis(2-Chloroethyl)ether
Concen: 0.338 ng
RT: 7.125 min Scan# 560
Delta R.T. -0.029 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion: 93 Resp: 1990

Ion	Ratio	Lower	Upper
93	100		
63	86.3	67.7	101.5
95	31.9	25.6	38.4



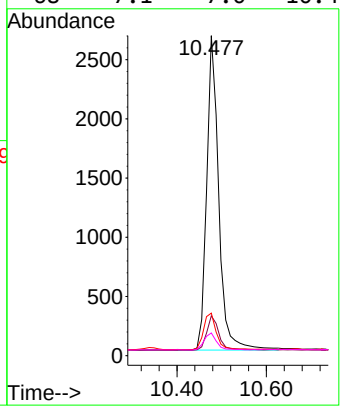


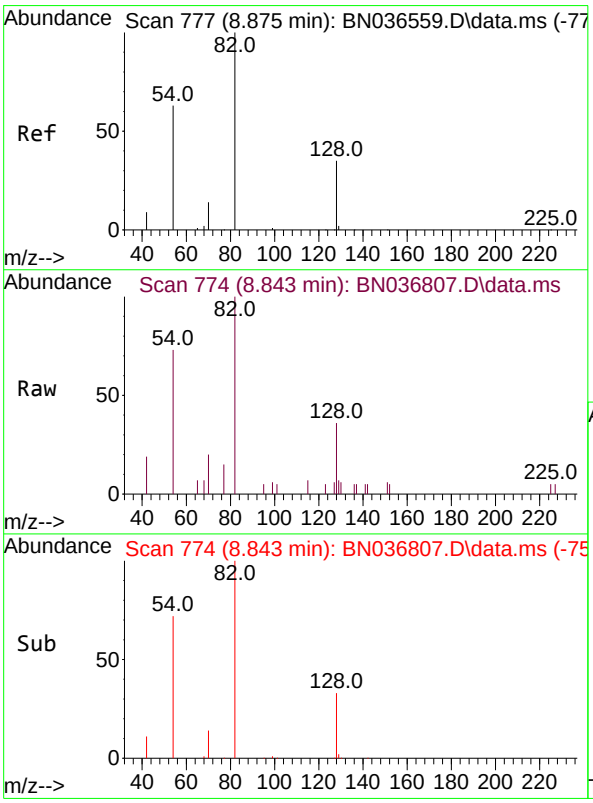
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.477 min Scan# 9
Delta R.T. -0.032 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:136 Resp: 4956

Ion	Ratio	Lower	Upper
136	100		
137	12.4	10.3	15.5
54	13.3	11.5	17.3
68	7.1	7.0	10.4

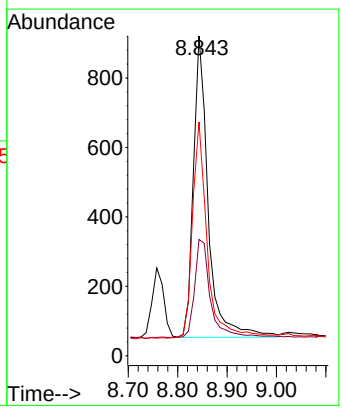


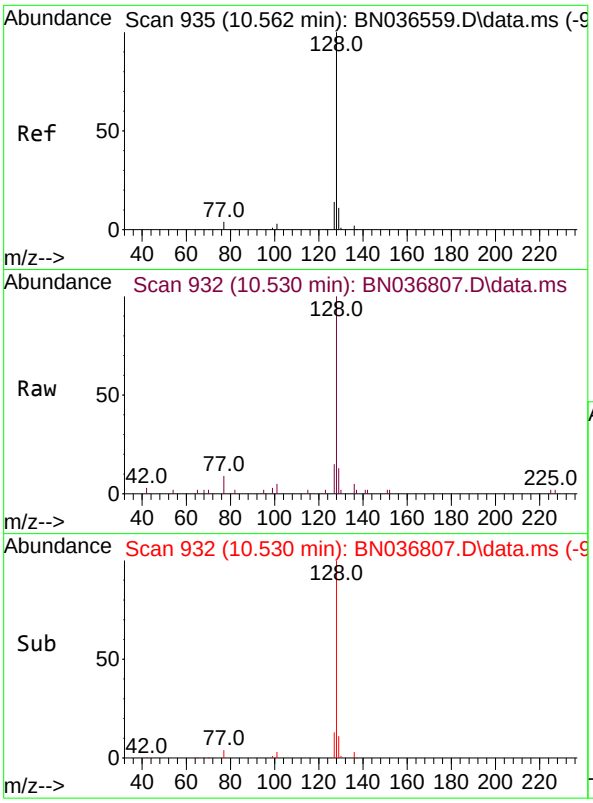


#8
Nitrobenzene-d5
Concen: 0.334 ng
RT: 8.843 min Scan# 774
Delta R.T. -0.032 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion: 82 Resp: 1802

Ion	Ratio	Lower	Upper
82	100		
128	36.4	30.6	45.8
54	73.1	52.2	78.4



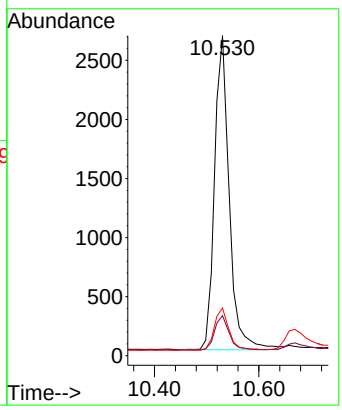


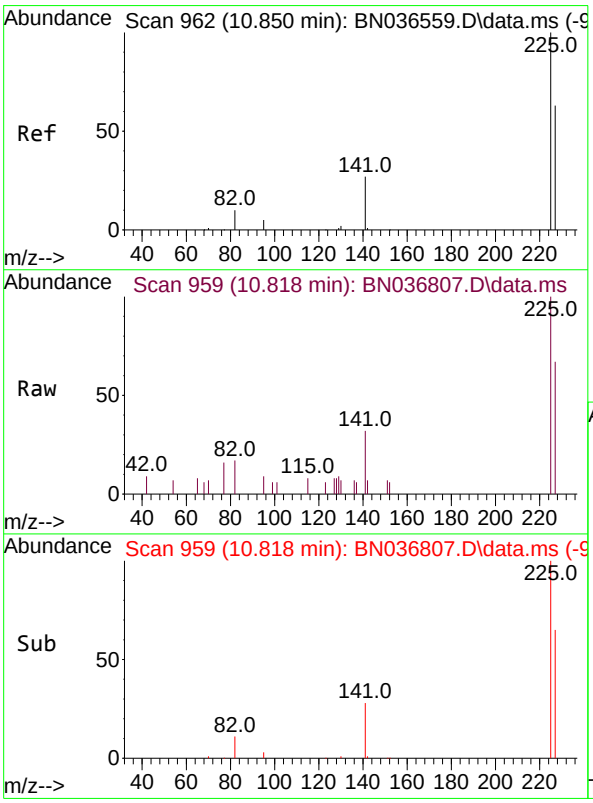
#9
Naphthalene
Concen: 0.356 ng
RT: 10.530 min Scan# 9
Delta R.T. -0.032 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:128 Resp: 5183

Ion	Ratio	Lower	Upper
128	100		
129	12.5	9.8	14.6
127	14.9	11.8	17.8

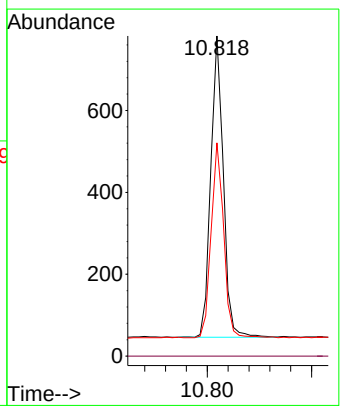


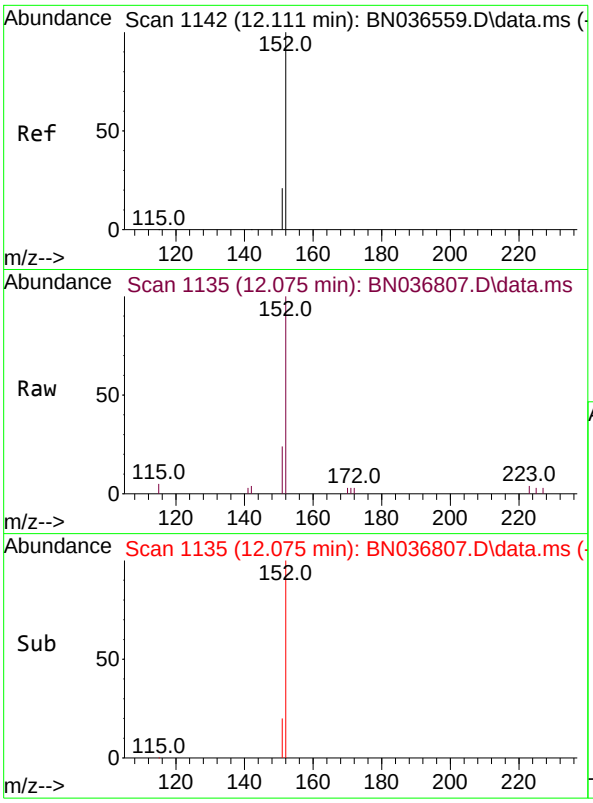


#10
Hexachlorobutadiene
Concen: 0.358 ng
RT: 10.818 min Scan# 959
Delta R.T. -0.032 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:225 Resp: 1228

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.7	51.8	77.8



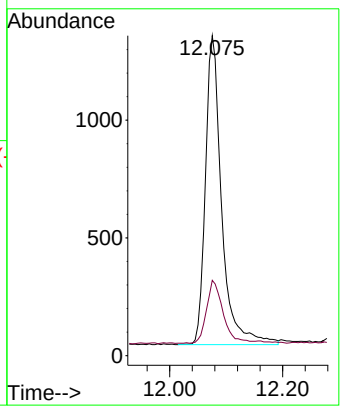


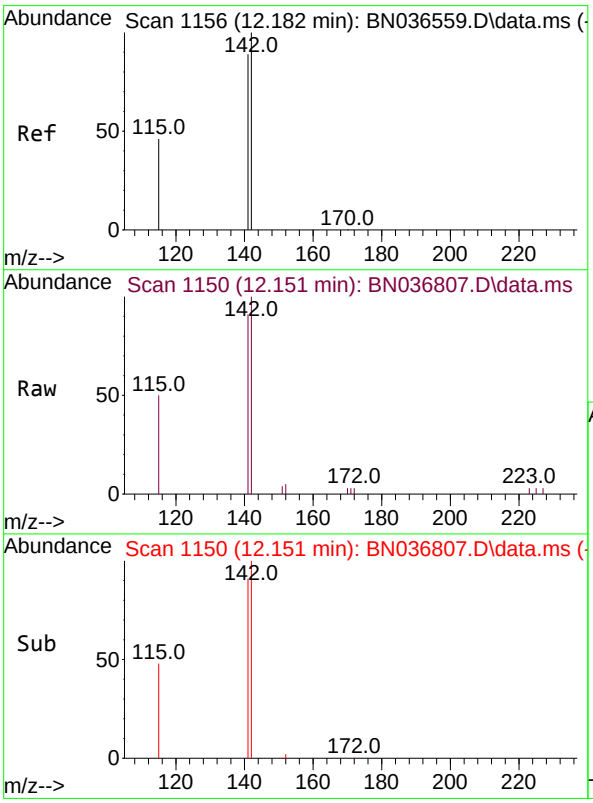
#11
2-Methylnaphthalene-d10
Concen: 0.354 ng
RT: 12.075 min Scan# 11
Delta R.T. -0.035 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 2608

Ion	Ratio	Lower	Upper
152	100		
151	20.6	17.0	25.6

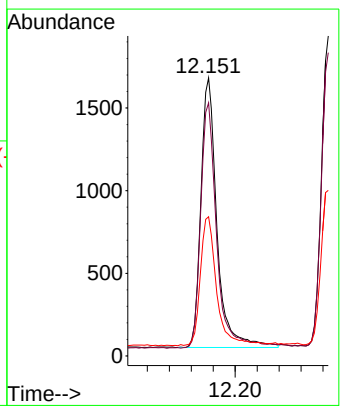


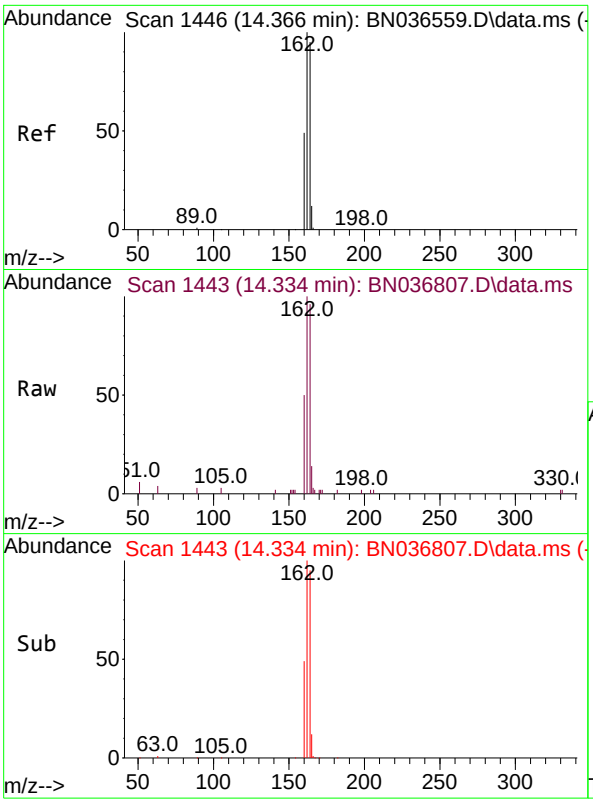


#12
2-Methylnaphthalene
Concen: 0.357 ng
RT: 12.151 min Scan# 1150
Delta R.T. -0.030 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:142 Resp: 3312

Ion	Ratio	Lower	Upper
142	100		
141	91.0	71.7	107.5
115	50.1	38.3	57.5



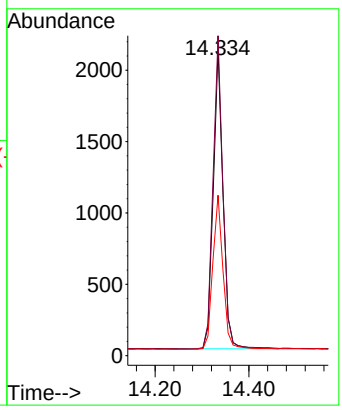


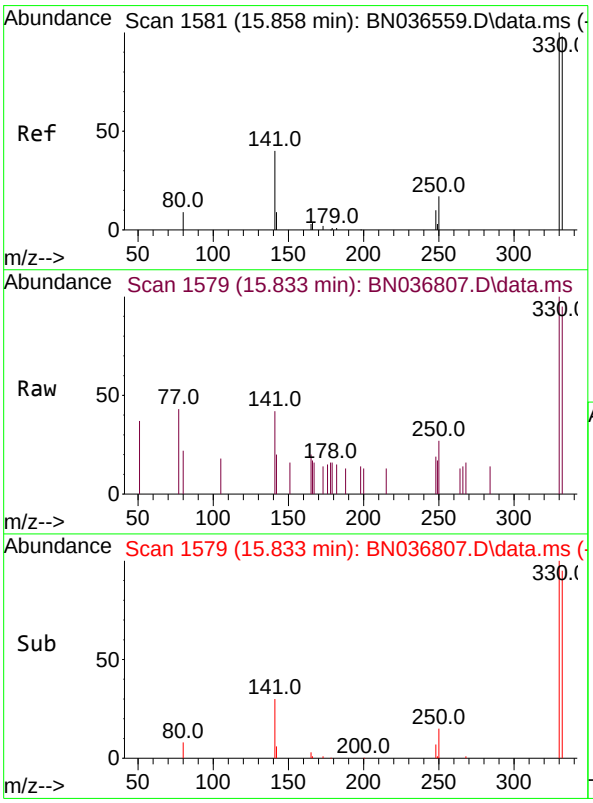
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:164 Resp: 3044

Ion	Ratio	Lower	Upper
164	100		
162	104.5	84.2	126.2
160	52.4	42.2	63.2

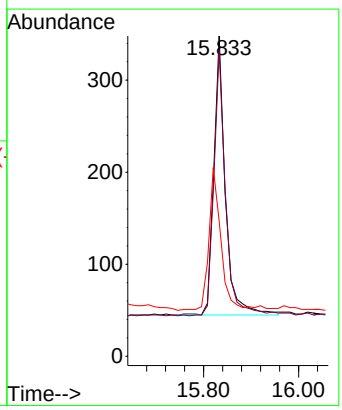


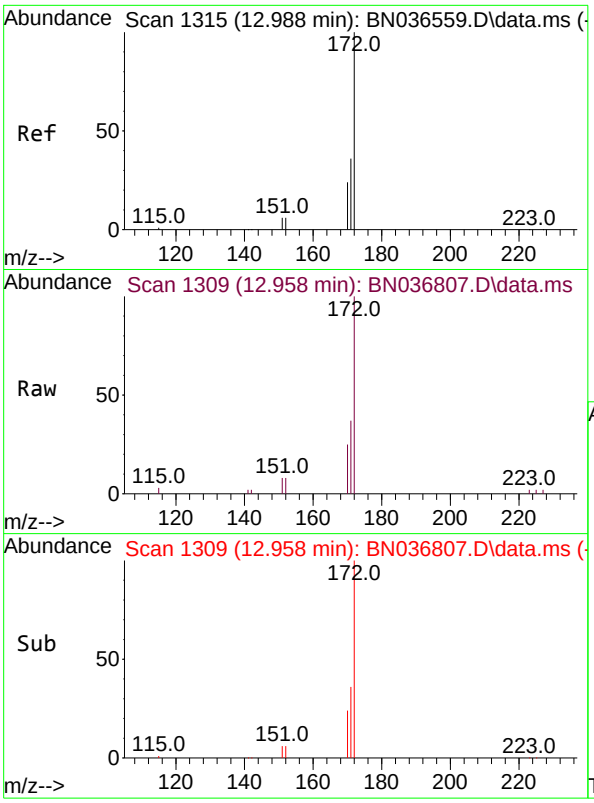


#14
2,4,6-Tribromophenol
Concen: 0.371 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.025 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:330 Resp: 513

Ion	Ratio	Lower	Upper
330	100		
332	96.9	75.2	112.8
141	52.4	43.4	65.2



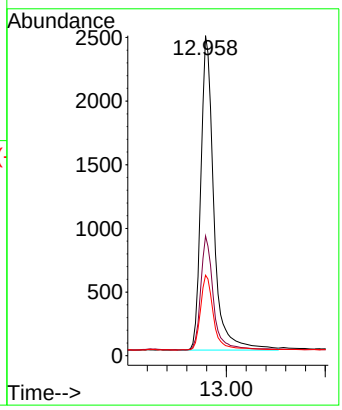


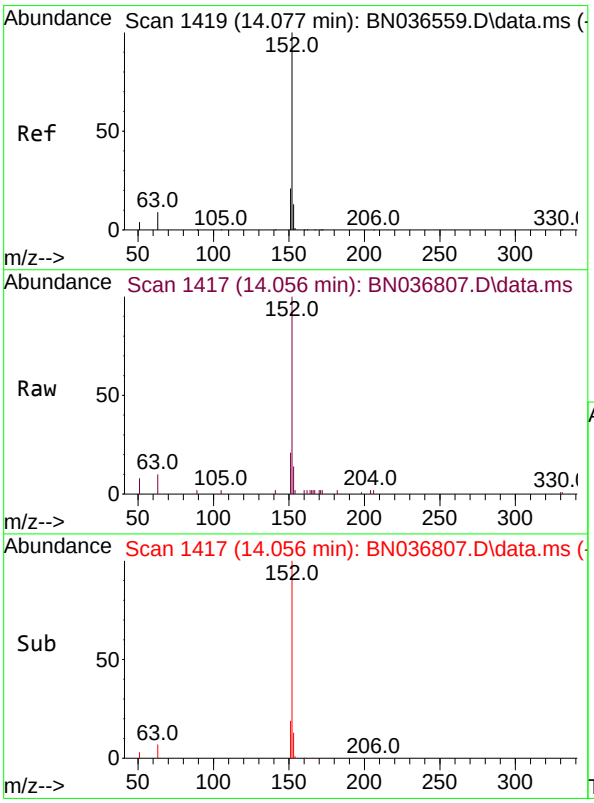
#15
2-Fluorobiphenyl
Concen: 0.329 ng
RT: 12.958 min Scan# 1
Delta R.T. -0.030 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:172 Resp: 5830

Ion	Ratio	Lower	Upper
172	100		
171	37.4	29.5	44.3
170	25.2	20.2	30.4

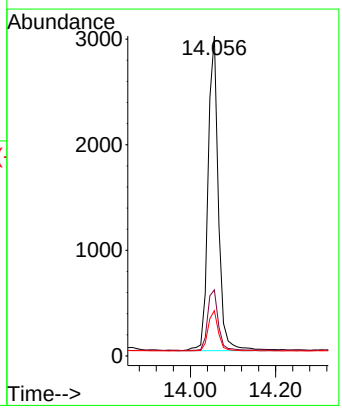


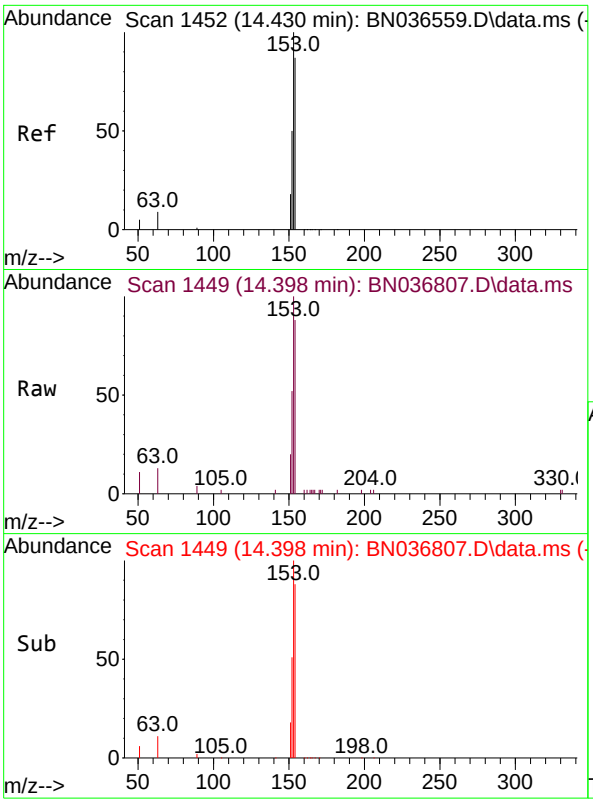


#16
Acenaphthylene
Concen: 0.348 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.021 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:152 Resp: 5001

Ion	Ratio	Lower	Upper
152	100		
151	19.7	16.2	24.4
153	12.6	10.6	15.8



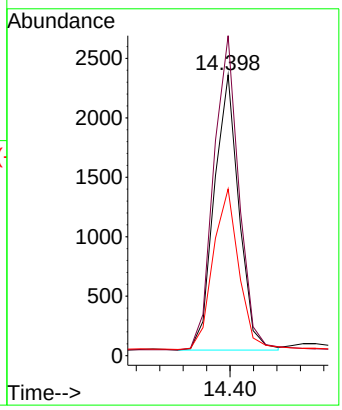


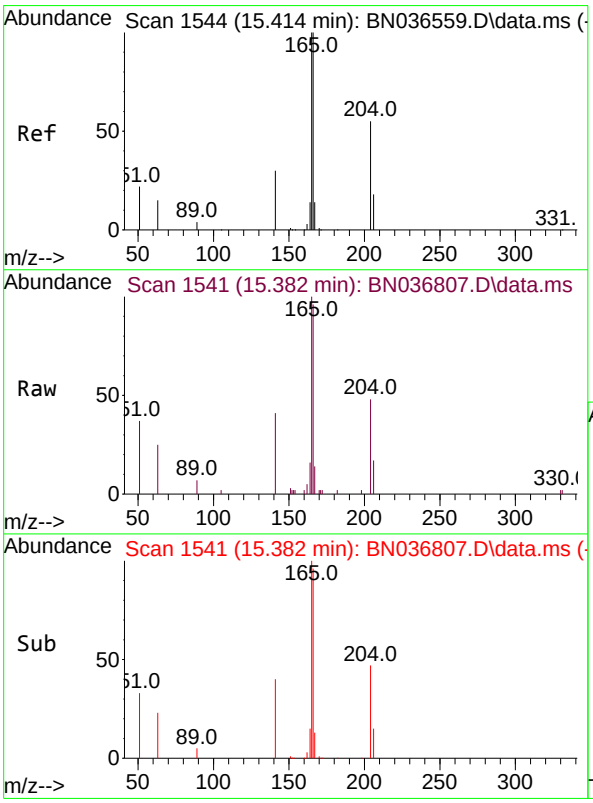
#17
Acenaphthene
Concen: 0.361 ng
RT: 14.398 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:154 Resp: 3395

Ion	Ratio	Lower	Upper
154	100		
153	116.8	94.1	141.1
152	61.6	49.8	74.6

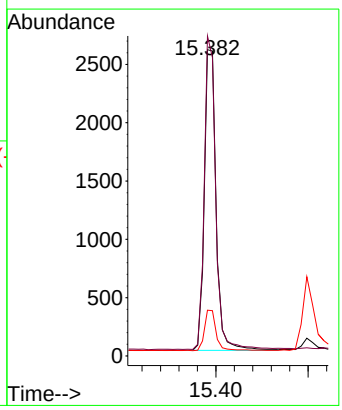


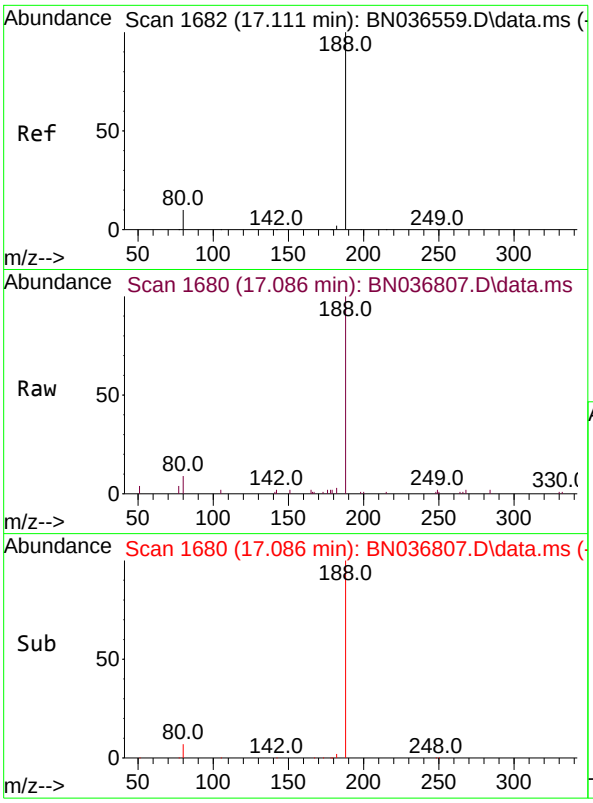


#18
Fluorene
Concen: 0.364 ng
RT: 15.382 min Scan# 1541
Delta R.T. -0.032 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:166 Resp: 4624

Ion	Ratio	Lower	Upper
166	100		
165	99.9	79.8	119.8
167	13.3	10.6	15.8



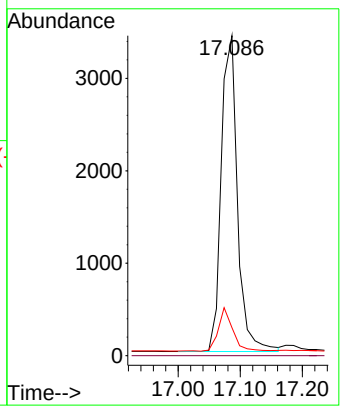


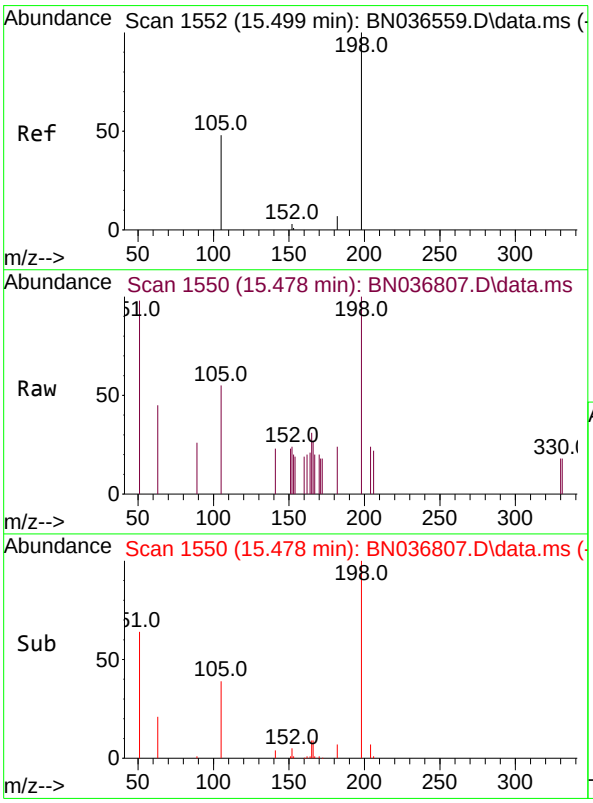
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:188 Resp: 6169

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.7	8.8	13.2#

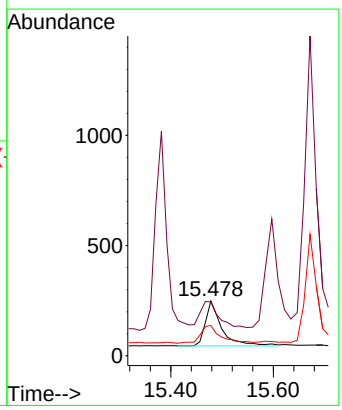


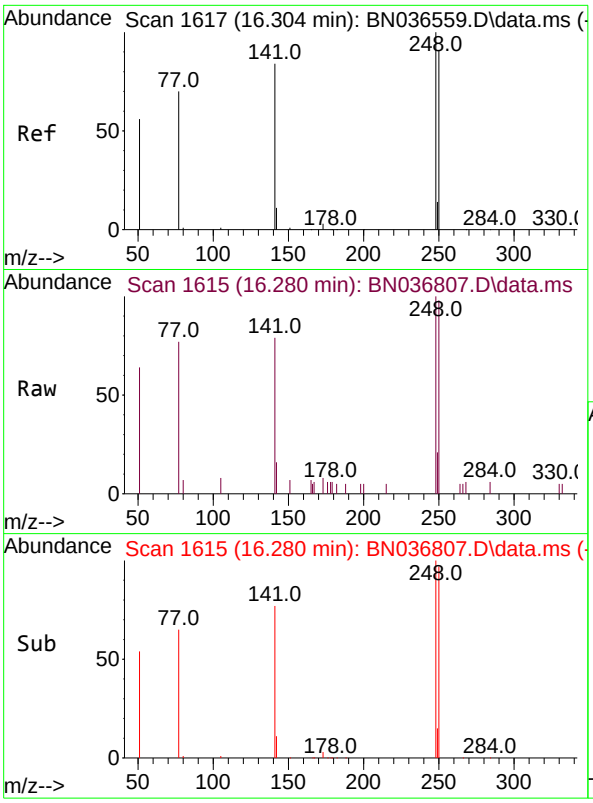


#20
4,6-Dinitro-2-methylphenol
Concen: 0.447 ng
RT: 15.478 min Scan# 1550
Delta R.T. -0.021 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:198 Resp: 475

Ion	Ratio	Lower	Upper
198	100		
51	98.0	107.9	161.9#
105	55.4	56.2	84.2#



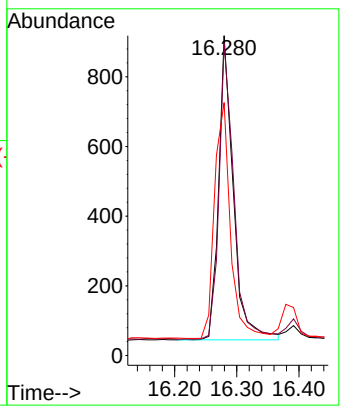


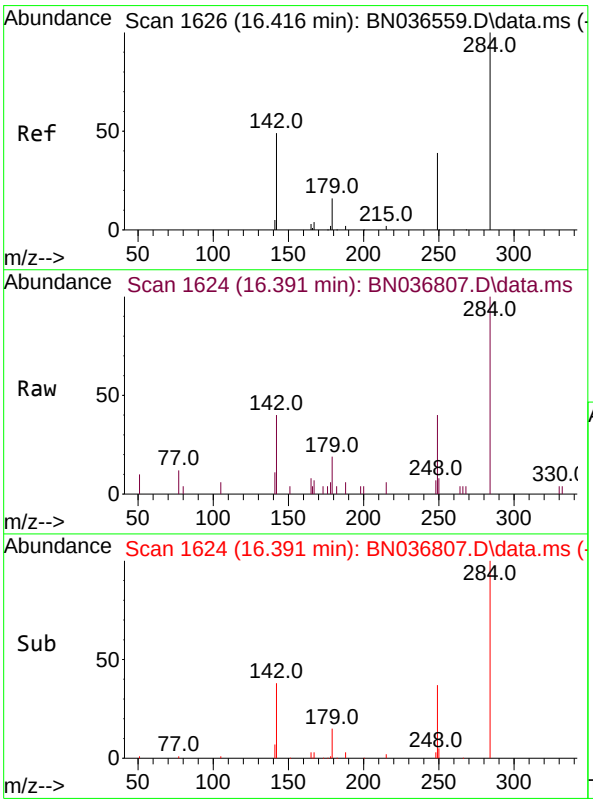
#21
4-Bromophenyl-phenylether
Concen: 0.368 ng
RT: 16.280 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:248 Resp: 1424

Ion	Ratio	Lower	Upper
248	100		
250	97.7	73.0	109.6
141	79.1	68.6	103.0

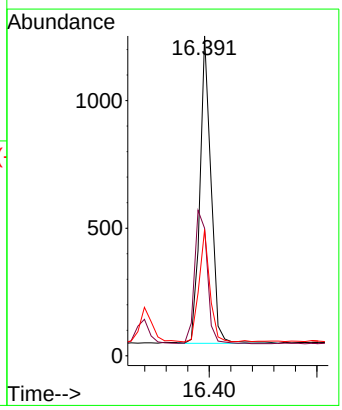


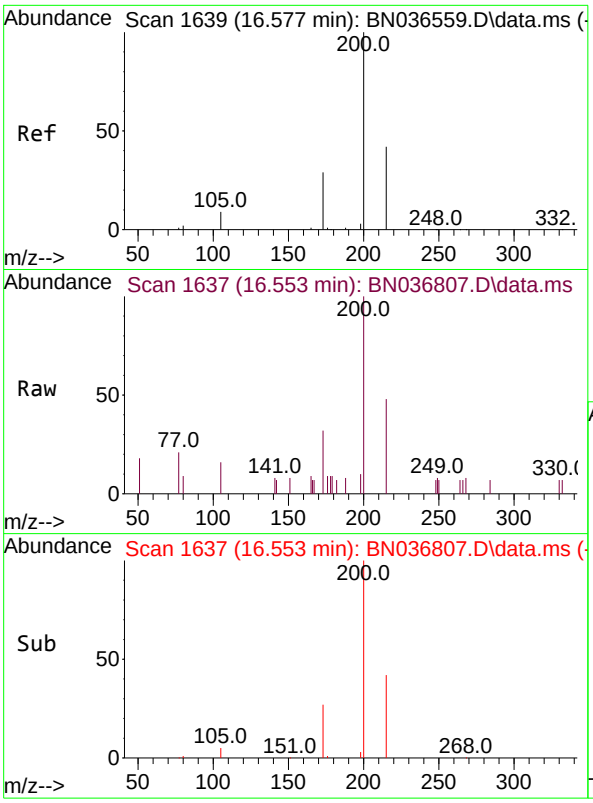


#22
Hexachlorobenzene
Concen: 0.371 ng
RT: 16.391 min Scan# 1624
Delta R.T. -0.025 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:284 Resp: 1729

Ion	Ratio	Lower	Upper
284	100		
142	49.7	37.0	55.4
249	35.3	28.1	42.1



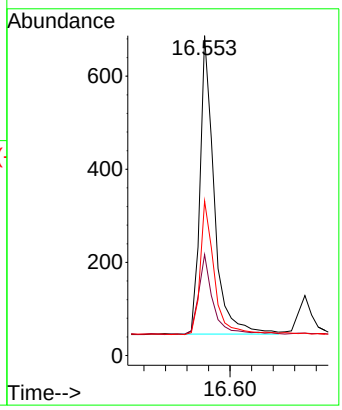


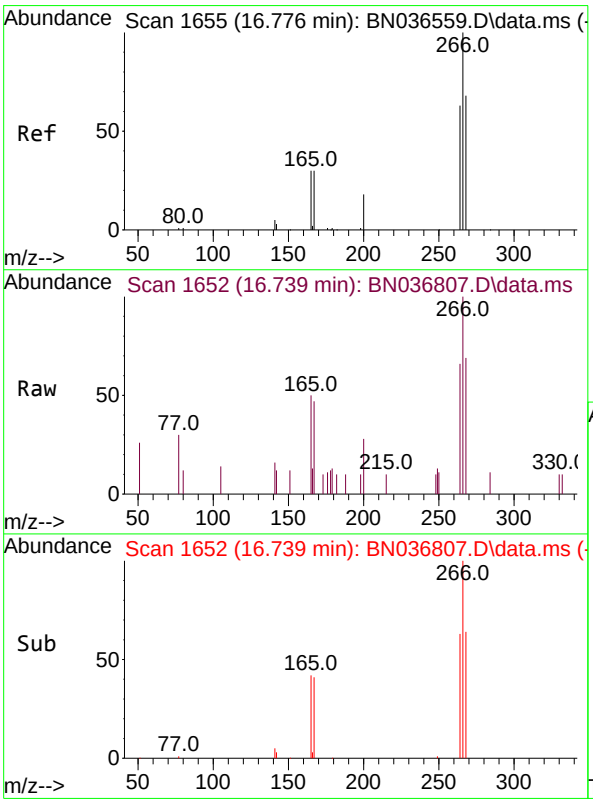
#23
Atrazine
Concen: 0.377 ng
RT: 16.553 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:200 Resp: 1168

Ion	Ratio	Lower	Upper
200	100		
173	31.6	27.3	40.9
215	48.3	36.8	55.2

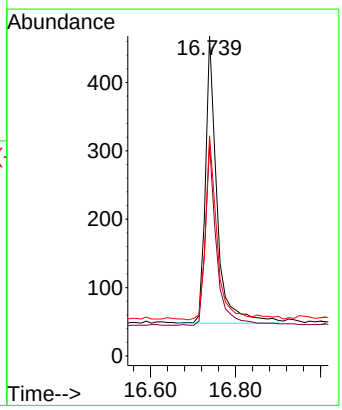


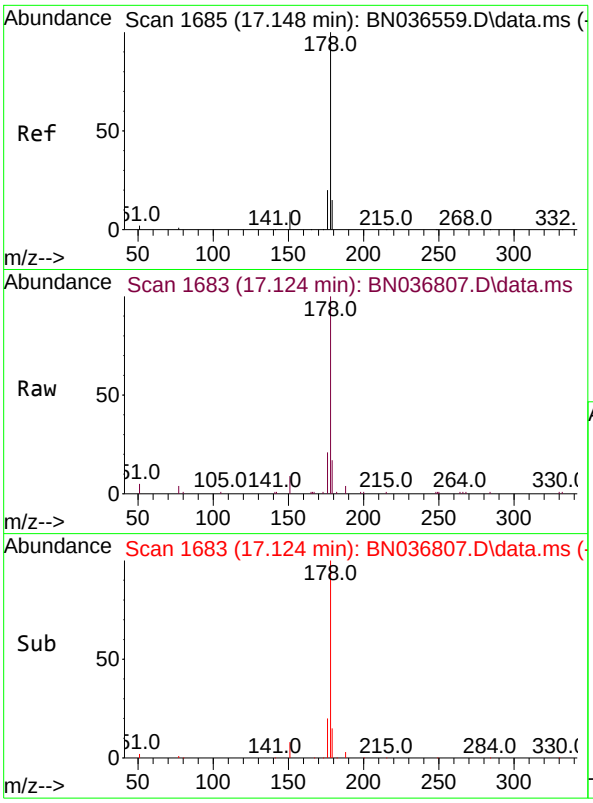


#24
Pentachlorophenol
Concen: 0.372 ng
RT: 16.739 min Scan# 1652
Delta R.T. -0.037 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:266 Resp: 792

Ion	Ratio	Lower	Upper
266	100		
264	61.1	49.6	74.4
268	62.4	50.9	76.3



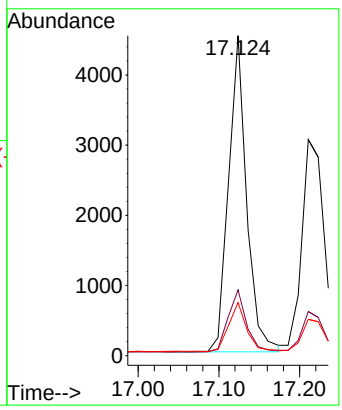


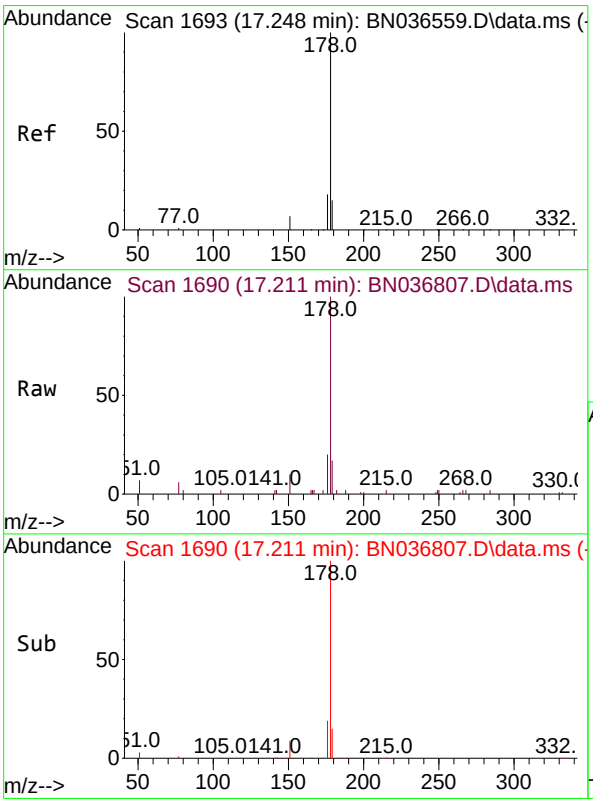
#25
Phenanthrene
Concen: 0.377 ng
RT: 17.124 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:178 Resp: 6985

Ion	Ratio	Lower	Upper
178	100		
176	19.9	15.9	23.9
179	15.3	12.2	18.4

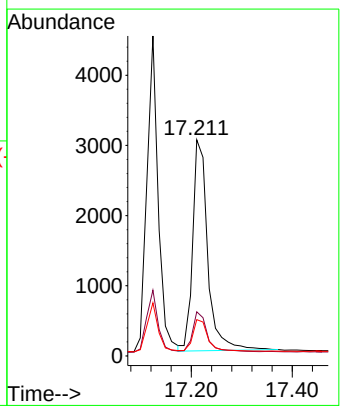


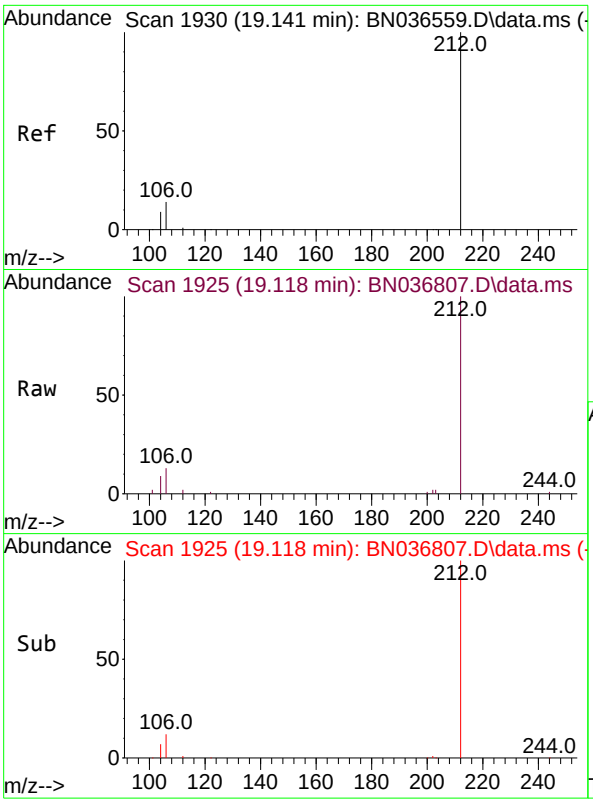


#26
Anthracene
Concen: 0.374 ng
RT: 17.211 min Scan# 1690
Delta R.T. -0.037 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:178 Resp: 6251

Ion	Ratio	Lower	Upper
178	100		
176	18.3	15.4	23.2
179	15.1	12.6	18.8



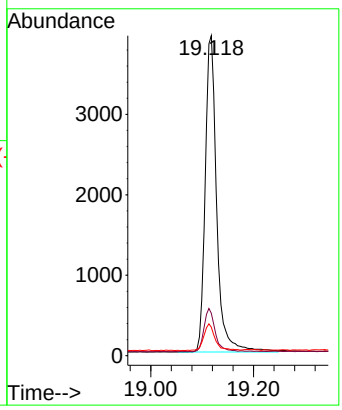


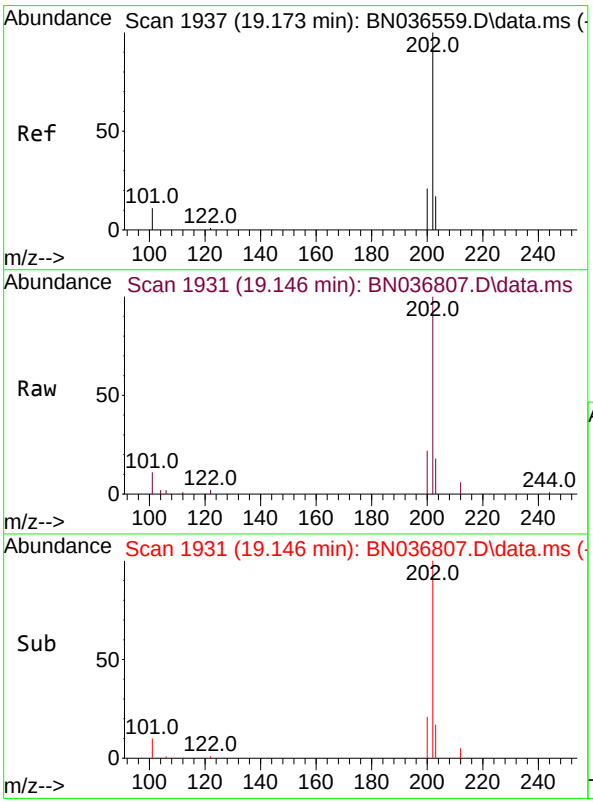
#27
Fluoranthene-d10
Concen: 0.384 ng
RT: 19.118 min Scan# 1
Delta R.T. -0.023 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:212 Resp: 6077

Ion	Ratio	Lower	Upper
212	100		
106	13.2	11.8	17.6
104	8.4	7.3	10.9

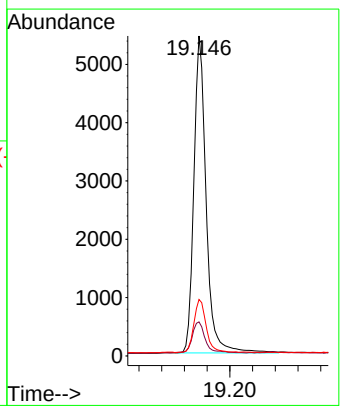


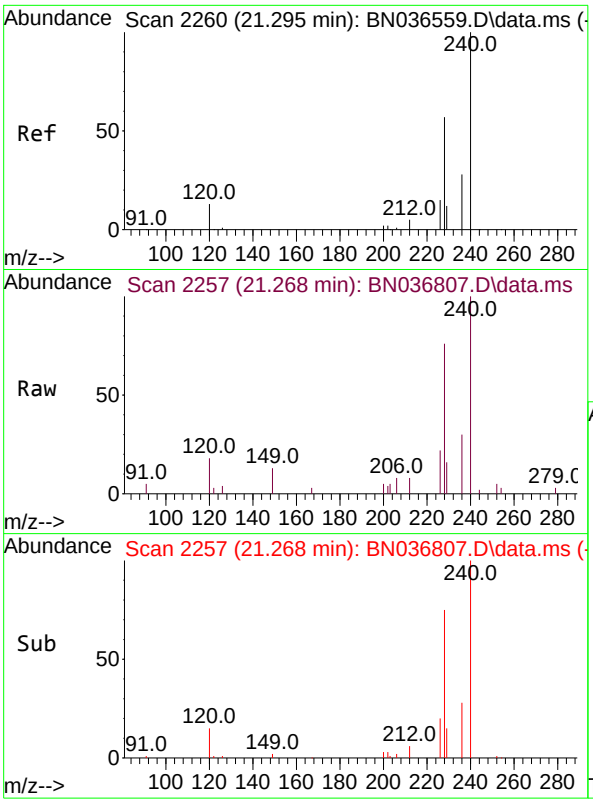


#28
Fluoranthene
Concen: 0.392 ng
RT: 19.146 min Scan# 1931
Delta R.T. -0.028 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:202 Resp: 8157

Ion	Ratio	Lower	Upper
202	100		
101	10.2	9.4	14.0
203	16.8	13.5	20.3



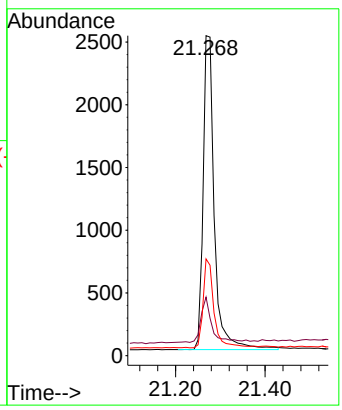


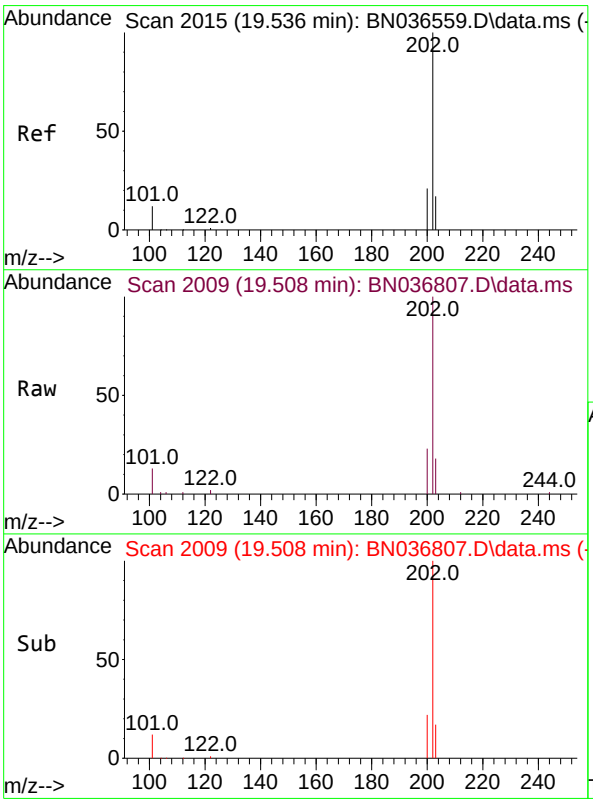
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.268 min Scan# 2
Delta R.T. -0.027 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:240 Resp: 4366

Ion	Ratio	Lower	Upper
240	100		
120	18.3	14.6	22.0
236	30.3	24.1	36.1

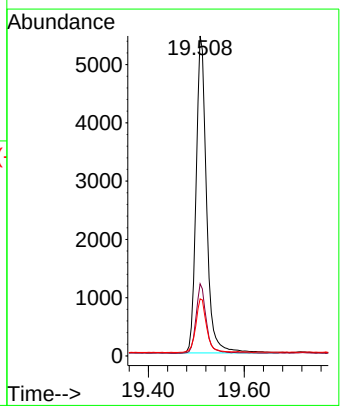


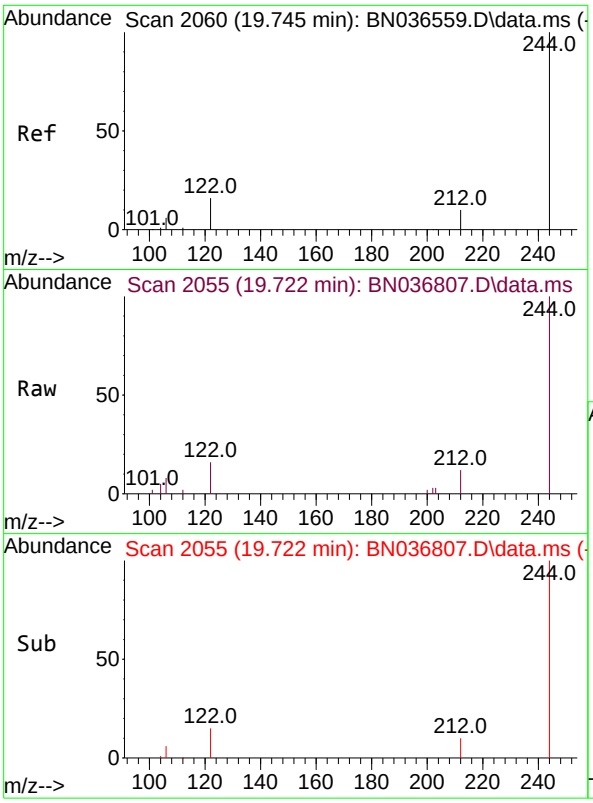


#30
Pyrene
Concen: 0.387 ng
RT: 19.508 min Scan# 2009
Delta R.T. -0.028 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:202 Resp: 8270

Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.1	25.7
203	17.4	14.1	21.1



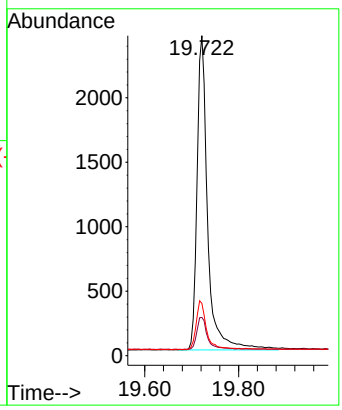


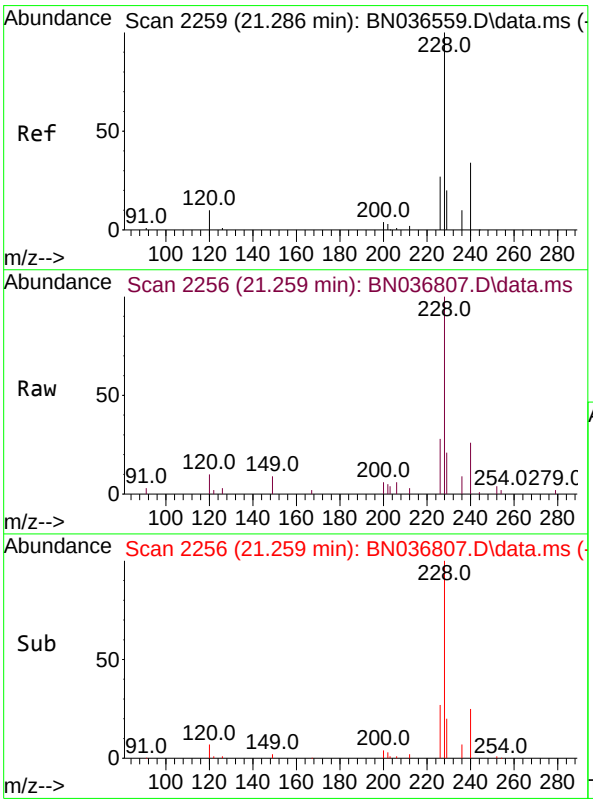
#31
Terphenyl-d14
Concen: 0.365 ng
RT: 19.722 min Scan# 2
Delta R.T. -0.023 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:244 Resp: 3821

Ion	Ratio	Lower	Upper
244	100		
212	12.0	9.6	14.4
122	16.4	13.9	20.9

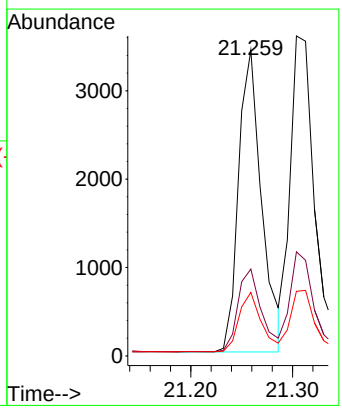


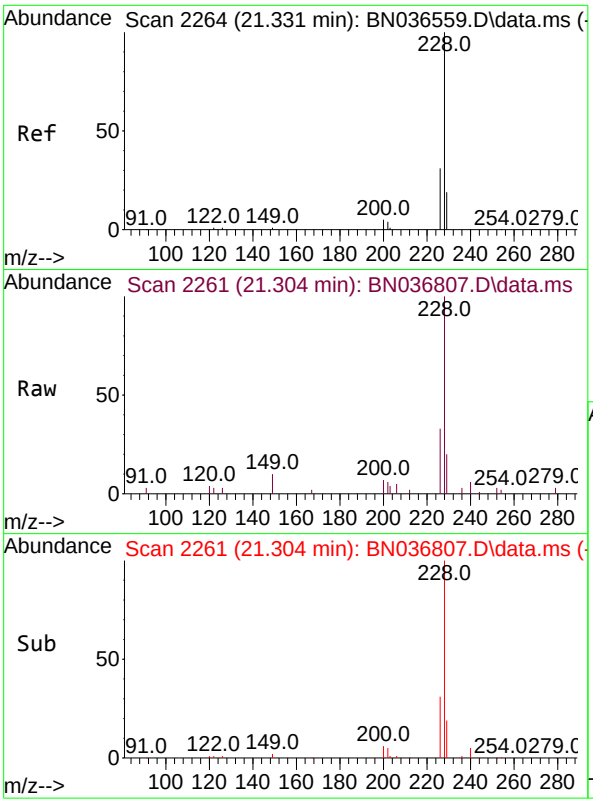


#32
Benzo(a)anthracene
Concen: 0.354 ng
RT: 21.259 min Scan# 2256
Delta R.T. -0.027 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:228 Resp: 5377

Ion	Ratio	Lower	Upper
228	100		
226	28.4	22.5	33.7
229	20.8	16.6	25.0



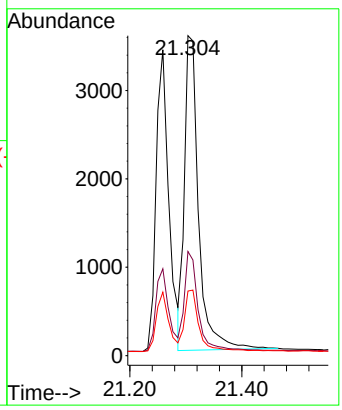


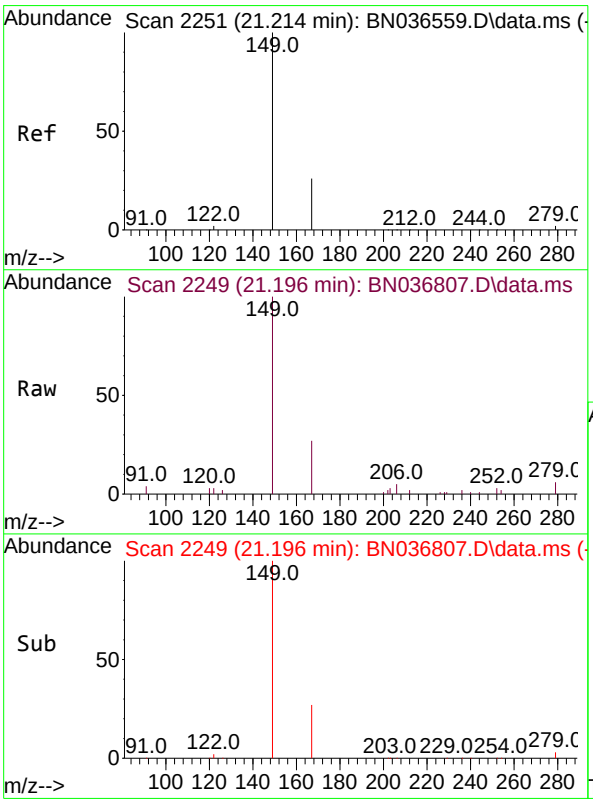
#33
Chrysene
Concen: 0.378 ng
RT: 21.304 min Scan# 2
Delta R.T. -0.027 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:228 Resp: 6263

Ion	Ratio	Lower	Upper
228	100		
226	32.6	25.3	37.9
229	20.2	15.8	23.8

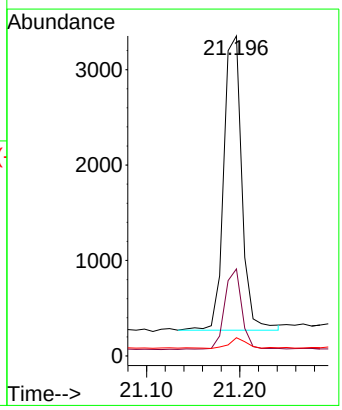


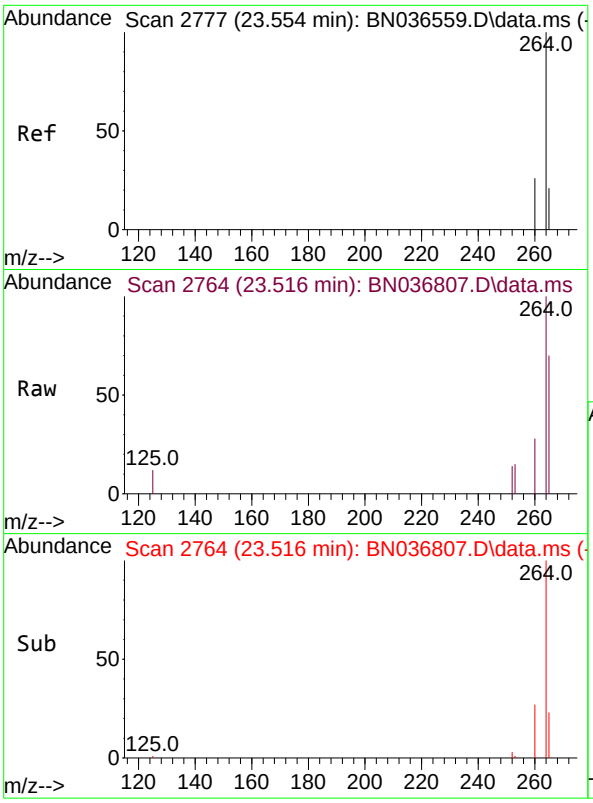


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.385 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:149 Resp: 4162

Ion	Ratio	Lower	Upper
149	100		
167	26.1	20.7	31.1
279	3.6	3.6	5.4#



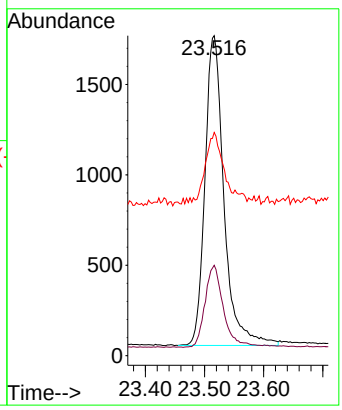


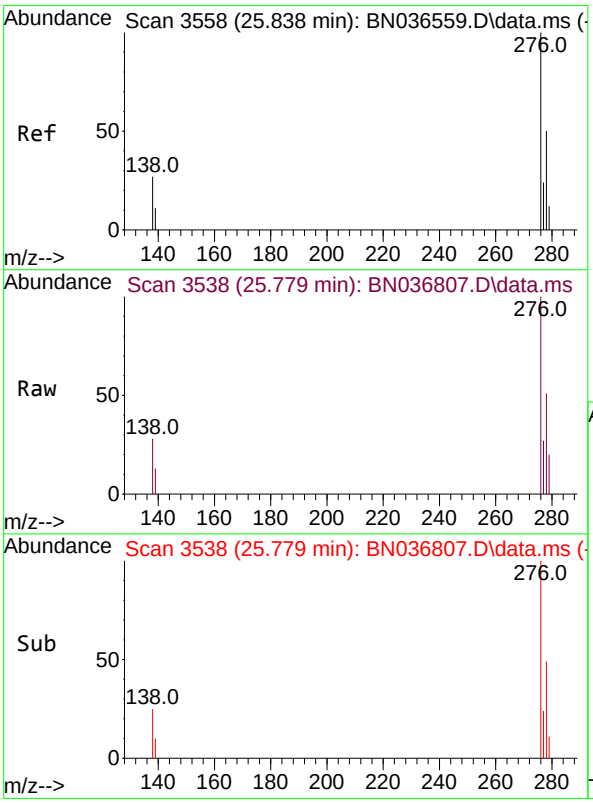
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.516 min Scan# 2
Delta R.T. -0.038 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:264 Resp: 3818

Ion	Ratio	Lower	Upper
264	100		
260	28.2	22.6	33.8
265	69.8	88.1	132.1#

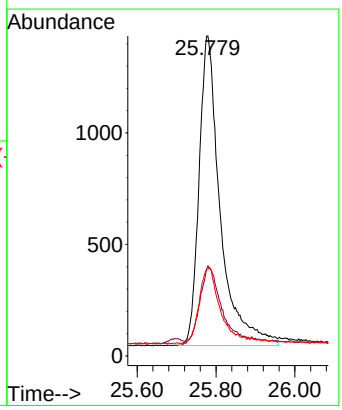


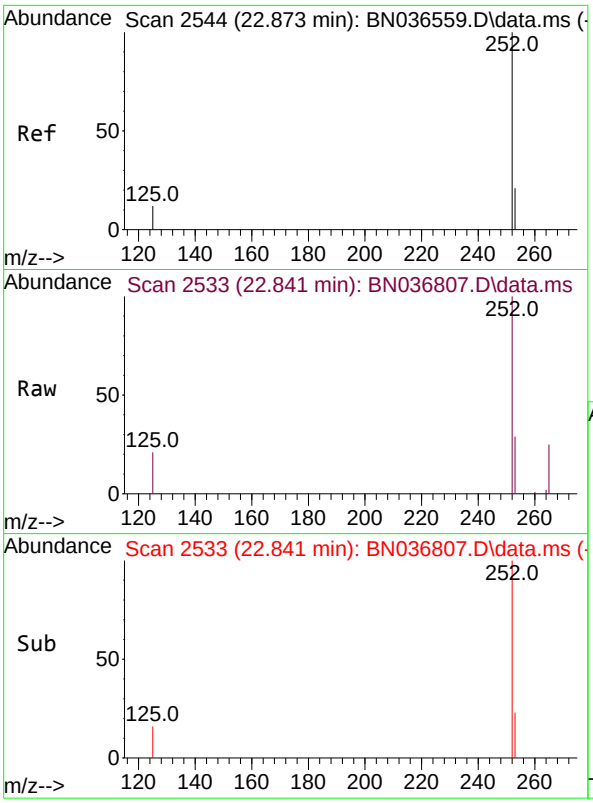


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.376 ng
RT: 25.779 min Scan# 3538
Delta R.T. -0.058 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:276 Resp: 5188

Ion	Ratio	Lower	Upper
276	100		
138	24.1	23.4	35.2
277	23.0	20.0	30.0



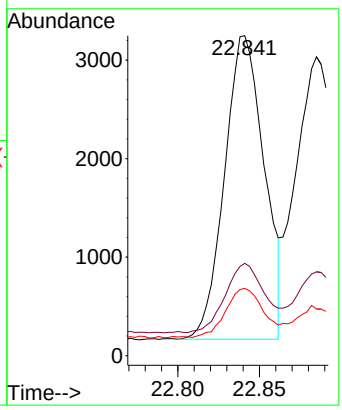


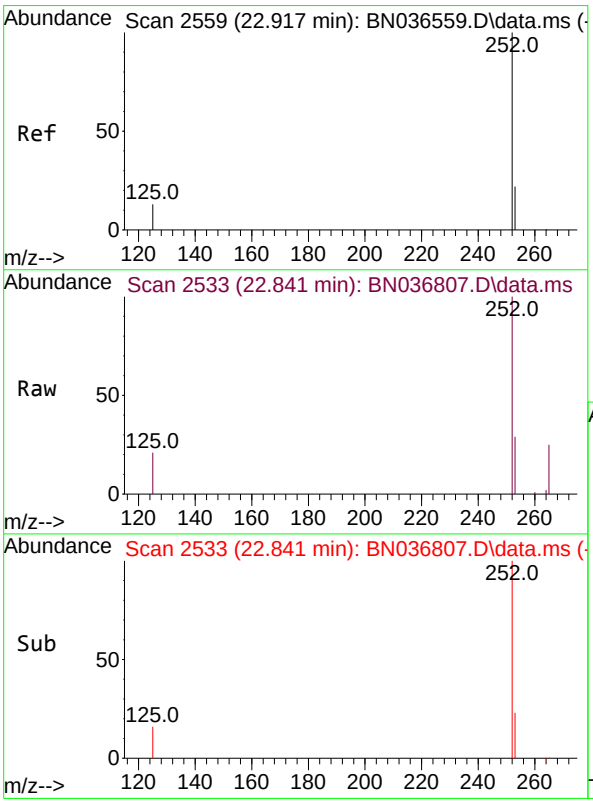
#37
Benzo(b)fluoranthene
Concen: 0.374 ng
RT: 22.841 min Scan# 2
Delta R.T. -0.032 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:252 Resp: 5191

Ion	Ratio	Lower	Upper
252	100		
253	28.9	23.9	35.9
125	21.1	17.4	26.2

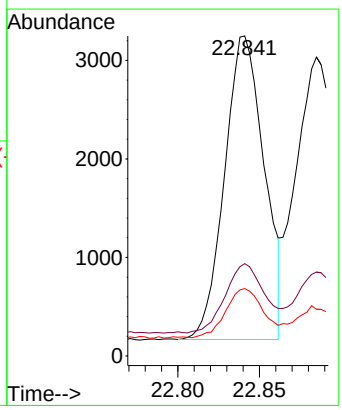


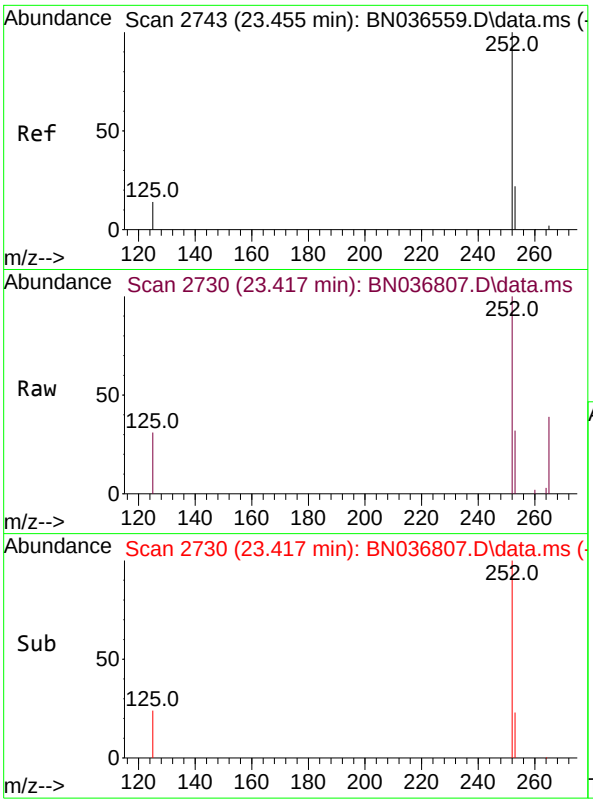


#38
Benzo(k)fluoranthene
Concen: 0.356 ng
RT: 22.841 min Scan# 2533
Delta R.T. -0.076 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:252 Resp: 5191

Ion	Ratio	Lower	Upper
252	100		
253	28.9	24.6	36.8
125	21.1	17.8	26.8



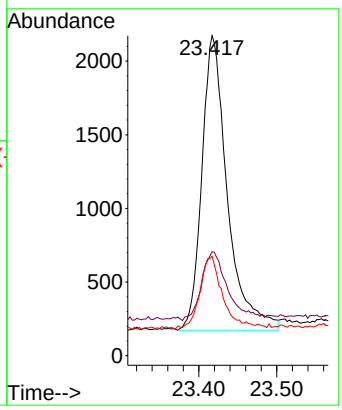


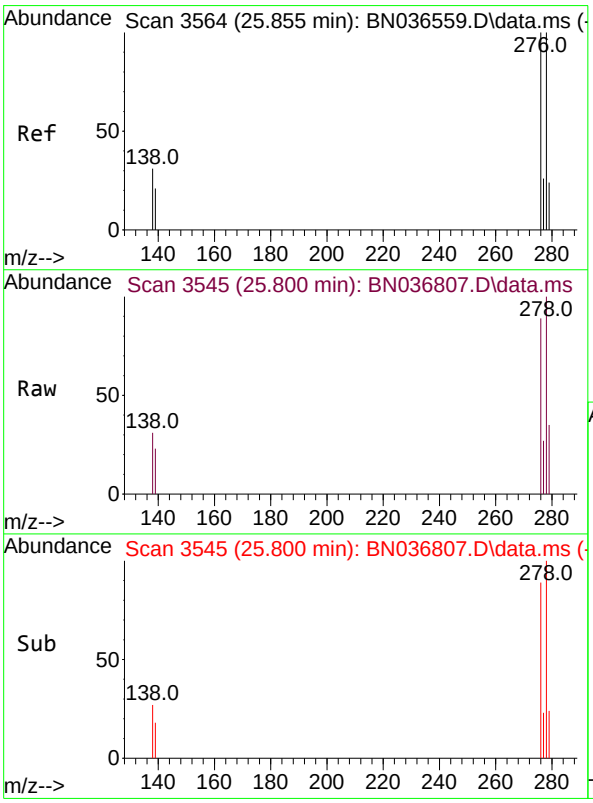
#39
Benzo(a)pyrene
Concen: 0.389 ng
RT: 23.417 min Scan# 2
Delta R.T. -0.038 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:252 Resp: 4547

Ion	Ratio	Lower	Upper
252	100		
253	32.5	27.8	41.8
125	31.1	22.7	34.1

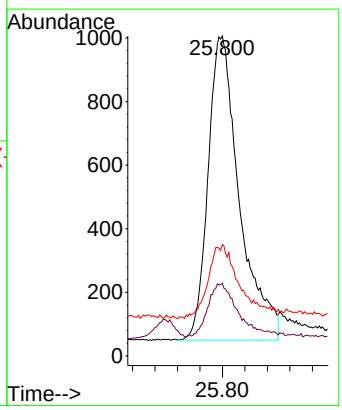


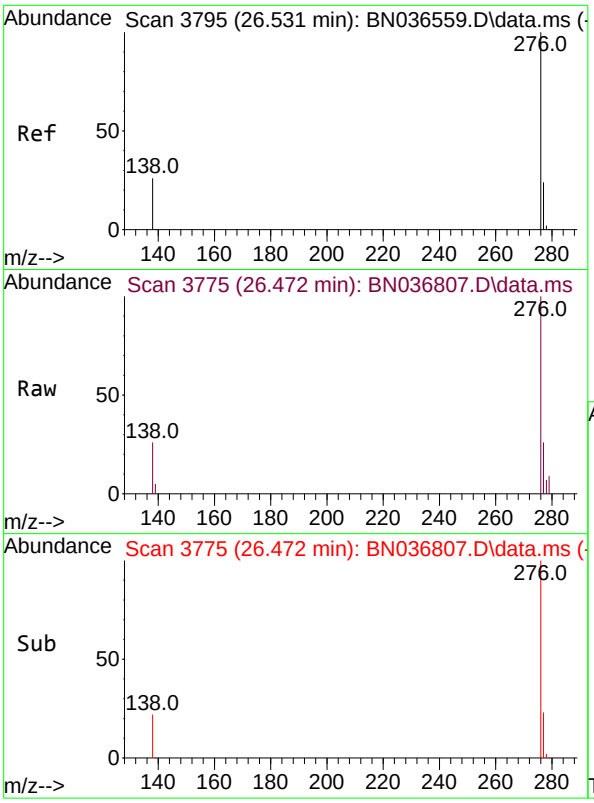


#40
Dibenzo(a,h)anthracene
Concen: 0.346 ng
RT: 25.800 min Scan# 3545
Delta R.T. -0.055 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:278 Resp: 3712

Ion	Ratio	Lower	Upper
278	100		
139	22.7	20.8	31.2
279	34.8	28.8	43.2



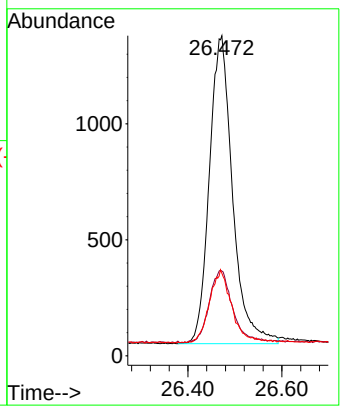


#41
Benzo(g,h,i)perylene
Concen: 0.371 ng
RT: 26.472 min Scan# 3
Delta R.T. -0.058 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:276 Resp: 4558

Ion	Ratio	Lower	Upper
276	100		
277	26.4	22.2	33.4
138	25.8	24.1	36.1



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN033125\
Data File : BN036809.D
Acq On : 31 Mar 2025 10:39
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Mar 31 12:10:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.695	152	1888	0.400	ng		-0.03
7) Naphthalene-d8	10.477	136	4656	0.400	ng		-0.03
13) Acenaphthene-d10	14.334	164	2798	0.400	ng		-0.03
19) Phenanthrene-d10	17.086	188	5809	0.400	ng		-0.02
29) Chrysene-d12	21.277	240	4586	0.400	ng		#-0.02
35) Perylene-d12	23.522	264	3945	0.400	ng		#-0.03
System Monitoring Compounds							
4) 2-Fluorophenol	5.283	112	1544	0.351	ng		-0.03
5) Phenol-d6	6.865	99	1799	0.331	ng		-0.04
8) Nitrobenzene-d5	8.843	82	1689	0.333	ng		-0.03
11) 2-Methylnaphthalene-d10	12.075	152	2501	0.361	ng		-0.04
14) 2,4,6-Tribromophenol	15.833	330	451	0.355	ng		-0.02
15) 2-Fluorobiphenyl	12.958	172	5537	0.340	ng		-0.03
27) Fluoranthene-d10	19.118	212	5750	0.386	ng		-0.02
31) Terphenyl-d14	19.722	244	3660	0.333	ng		-0.02
Target Compounds							Qvalue
2) 1,4-Dioxane	3.225	88	857	0.409	ng		96
3) n-Nitrosodimethylamine	3.535	42	1677	0.396	ng		93
6) bis(2-Chloroethyl)ether	7.125	93	1889	0.336	ng		98
9) Naphthalene	10.530	128	4851	0.354	ng		99
10) Hexachlorobutadiene	10.818	225	1142	0.354	ng	#	98
12) 2-Methylnaphthalene	12.151	142	3144	0.361	ng		99
16) Acenaphthylene	14.056	152	4617	0.350	ng		99
17) Acenaphthene	14.398	154	3162	0.366	ng		99
18) Fluorene	15.382	166	4232	0.362	ng		99
20) 4,6-Dinitro-2-methylph...	15.478	198	405	0.419	ng		86
21) 4-Bromophenyl-phenylether	16.280	248	1292	0.355	ng		93
22) Hexachlorobenzene	16.391	284	1587	0.361	ng		97
23) Atrazine	16.553	200	1096	0.376	ng		98
24) Pentachlorophenol	16.739	266	743	0.371	ng		98
25) Phenanthrene	17.124	178	6581	0.378	ng		100
26) Anthracene	17.211	178	5583	0.355	ng		100
28) Fluoranthene	19.150	202	7591	0.388	ng		99
30) Pyrene	19.513	202	7799	0.348	ng		100
32) Benzo(a)anthracene	21.259	228	5377	0.337	ng		98
33) Chrysene	21.313	228	6640	0.381	ng		98
34) Bis(2-ethylhexyl)phtha...	21.196	149	4143	0.365	ng	#	99
36) Indeno(1,2,3-cd)pyrene	25.782	276	5019	0.352	ng		94
37) Benzo(b)fluoranthene	22.844	252	5495	0.383	ng		98
38) Benzo(k)fluoranthene	22.844	252	5495	0.365	ng		97
39) Benzo(a)pyrene	23.423	252	4679	0.387	ng		96
40) Dibenzo(a,h)anthracene	25.805	278	3655	0.330	ng		99
41) Benzo(g,h,i)perylene	26.472	276	4543	0.358	ng		97

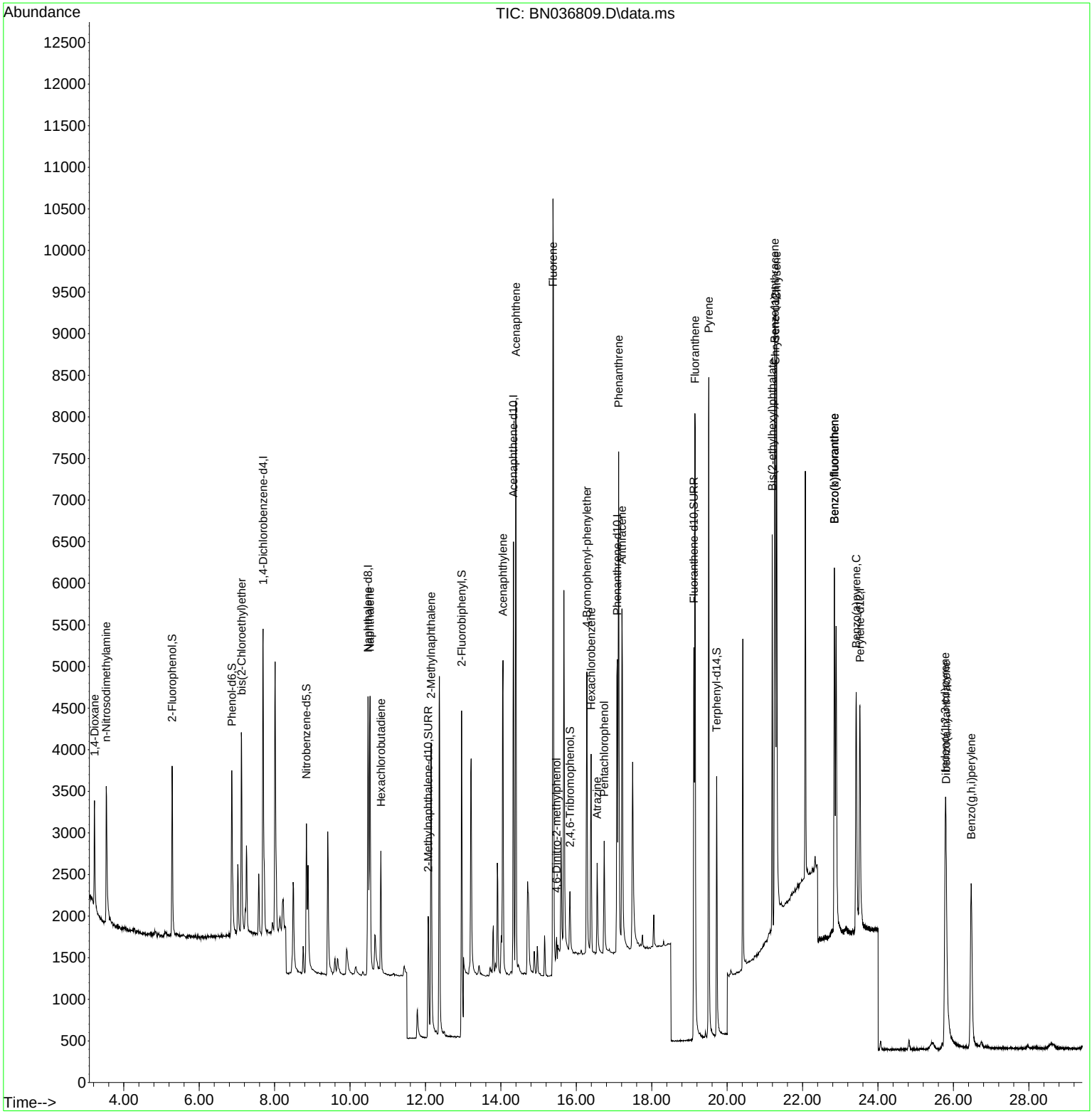
(#) = qualifier out of range (m) = manual integration (+) = signals summed

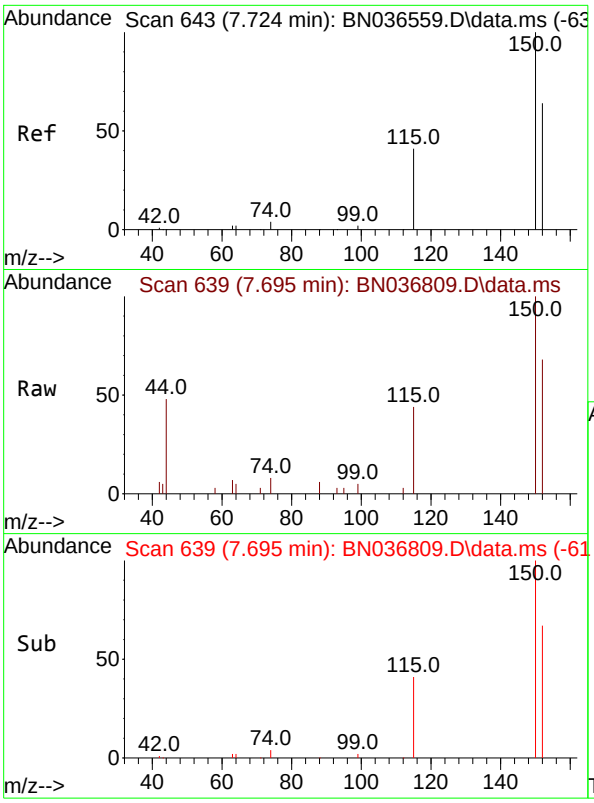
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN033125\
Data File : BN036809.D
Acq On : 31 Mar 2025 10:39
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Mar 31 12:10:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



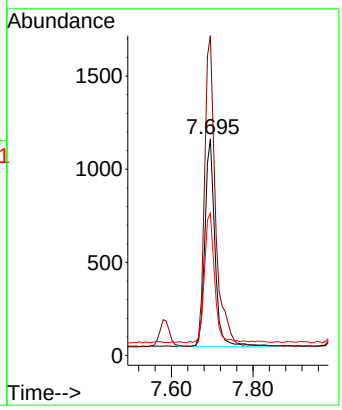


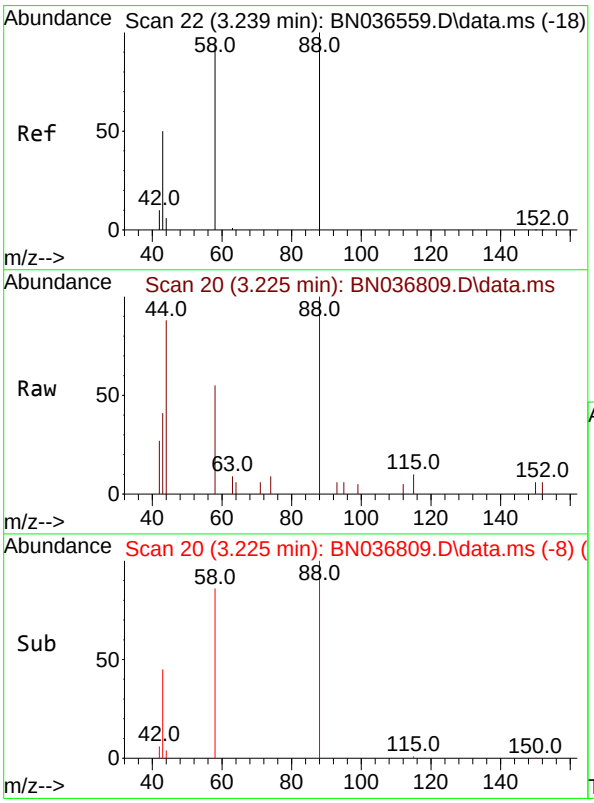
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.695 min Scan# 6
Delta R.T. -0.029 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 1888

Ion	Ratio	Lower	Upper
152	100		
150	147.6	123.7	185.5
115	65.7	54.3	81.5

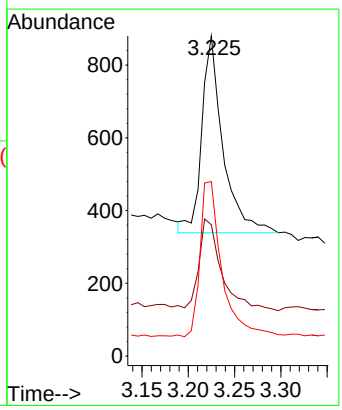


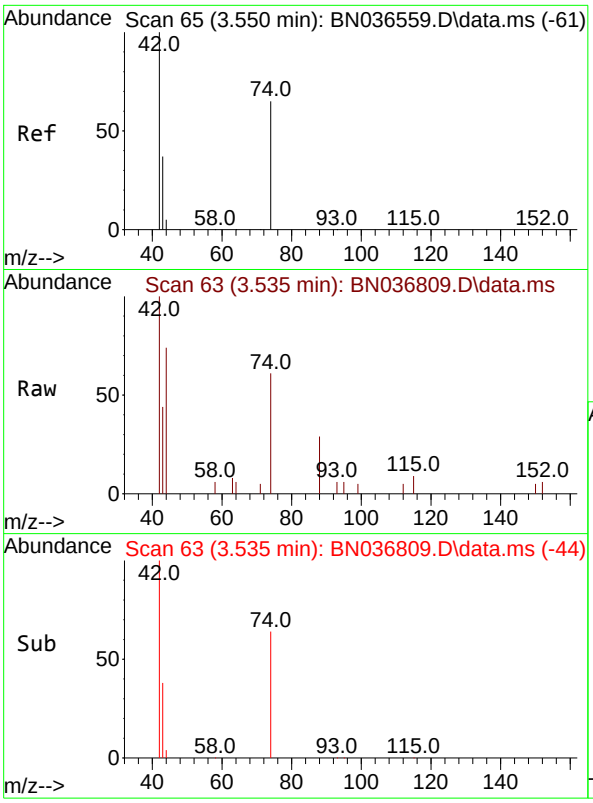


#2
1,4-Dioxane
Concen: 0.409 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion: 88 Resp: 857

Ion	Ratio	Lower	Upper
88	100		
43	50.1	37.8	56.8
58	80.6	67.4	101.2



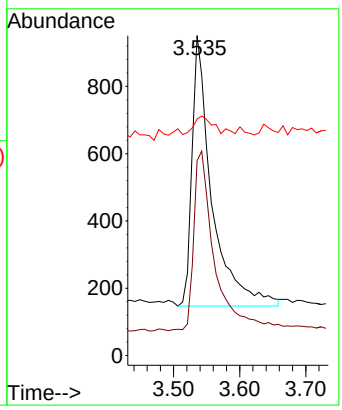


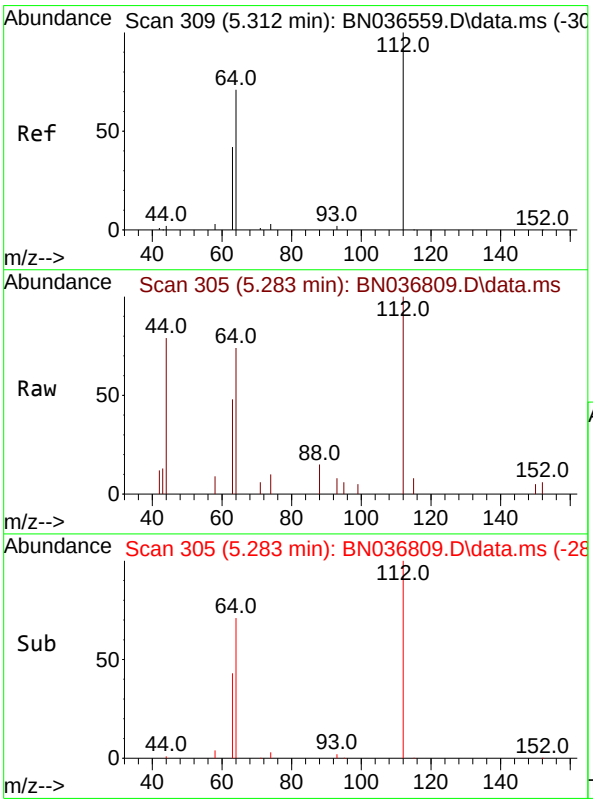
#3
n-Nitrosodimethylamine
Concen: 0.396 ng
RT: 3.535 min Scan# 6
Delta R.T. -0.014 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 42 Resp: 1677

Ion	Ratio	Lower	Upper
42	100		
74	69.2	60.6	90.8
44	8.2	6.3	9.5

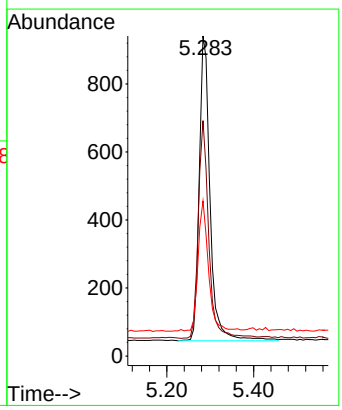


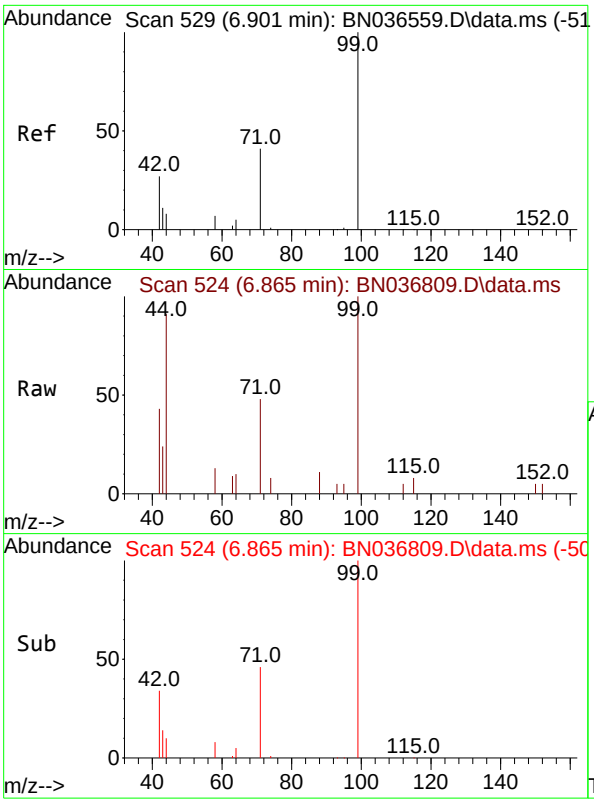


#4
2-Fluorophenol
Concen: 0.351 ng
RT: 5.283 min Scan# 305
Delta R.T. -0.029 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:112 Resp: 1544

Ion	Ratio	Lower	Upper
112	100		
64	69.6	53.1	79.7
63	40.8	31.8	47.8



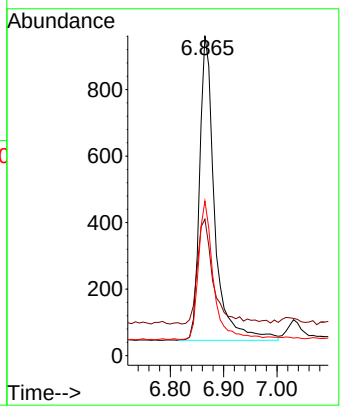


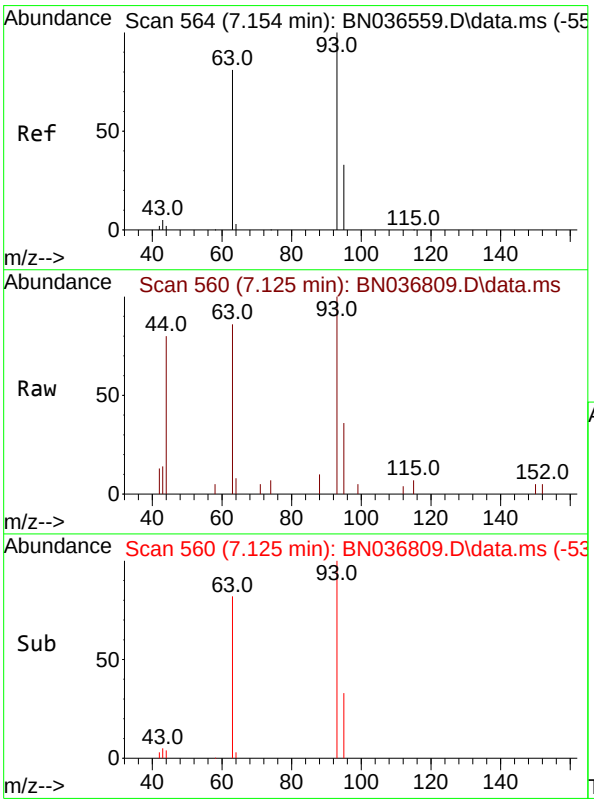
#5
Phenol-d6
Concen: 0.331 ng
RT: 6.865 min Scan# 5
Delta R.T. -0.036 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 99 Resp: 1799

Ion	Ratio	Lower	Upper
99	100		
42	37.9	26.5	39.7
71	44.8	34.1	51.1

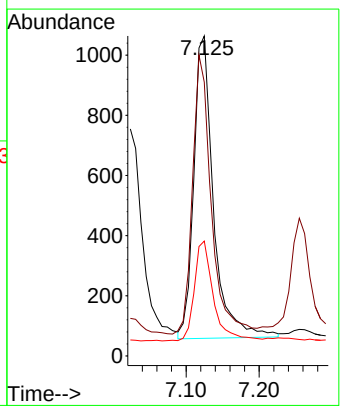


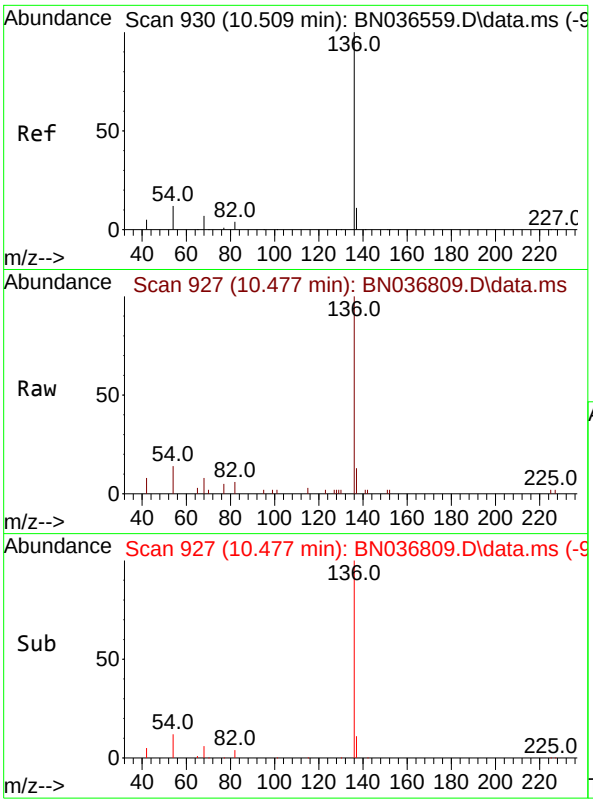


#6
bis(2-Chloroethyl)ether
Concen: 0.336 ng
RT: 7.125 min Scan# 560
Delta R.T. -0.029 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion: 93 Resp: 1889

Ion	Ratio	Lower	Upper
93	100		
63	87.3	67.7	101.5
95	31.9	25.6	38.4



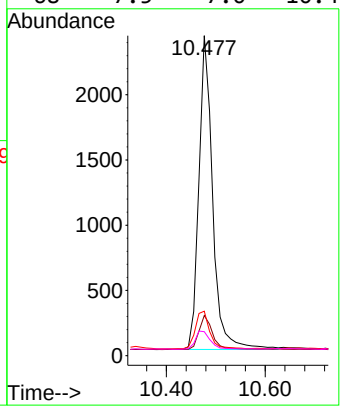


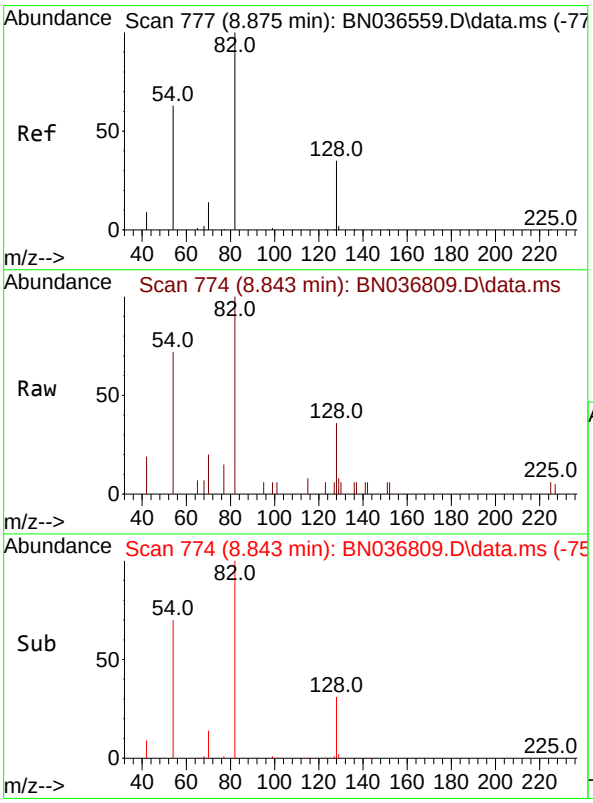
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.477 min Scan# 9
Delta R.T. -0.032 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:136 Resp: 4656

Ion	Ratio	Lower	Upper
136	100		
137	12.5	10.3	15.5
54	13.9	11.5	17.3
68	7.5	7.0	10.4

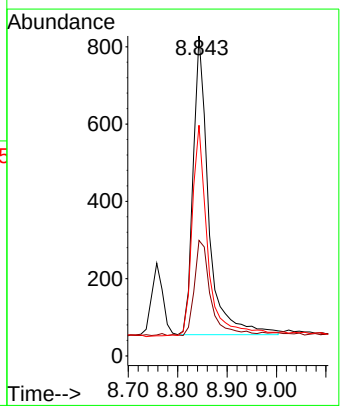


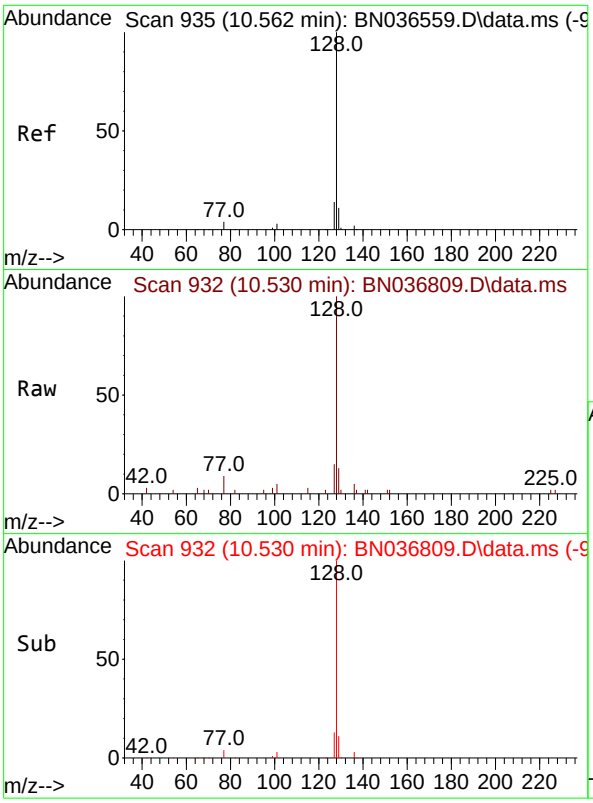


#8
Nitrobenzene-d5
Concen: 0.333 ng
RT: 8.843 min Scan# 774
Delta R.T. -0.032 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion: 82 Resp: 1689

Ion	Ratio	Lower	Upper
82	100		
128	36.1	30.6	45.8
54	72.1	52.2	78.4



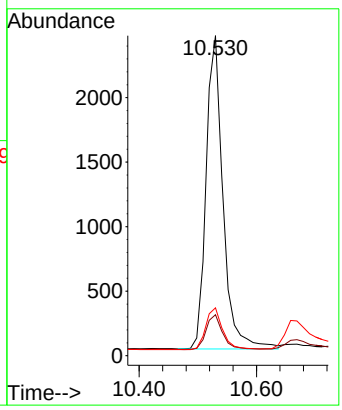


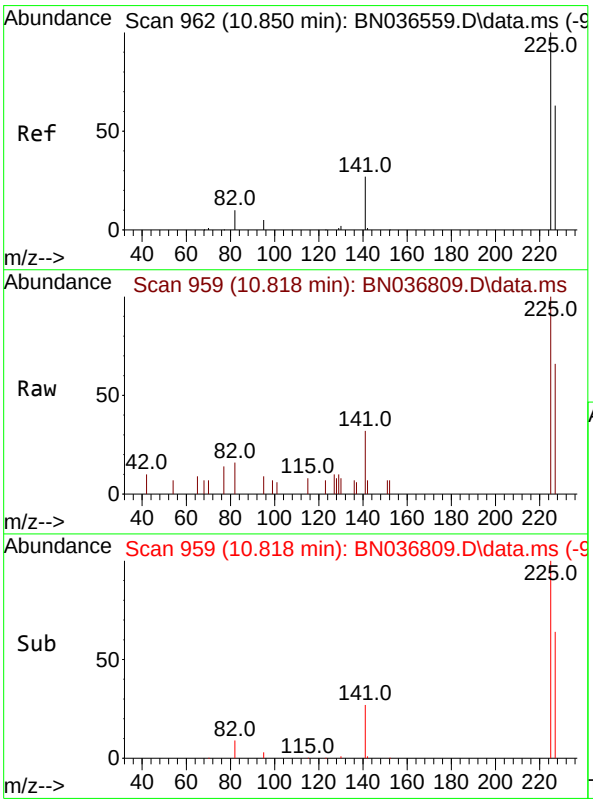
#9
Naphthalene
Concen: 0.354 ng
RT: 10.530 min Scan# 9
Delta R.T. -0.032 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:128 Resp: 4851

Ion	Ratio	Lower	Upper
128	100		
129	12.8	9.8	14.6
127	15.0	11.8	17.8

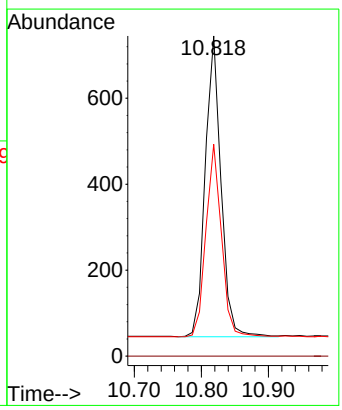


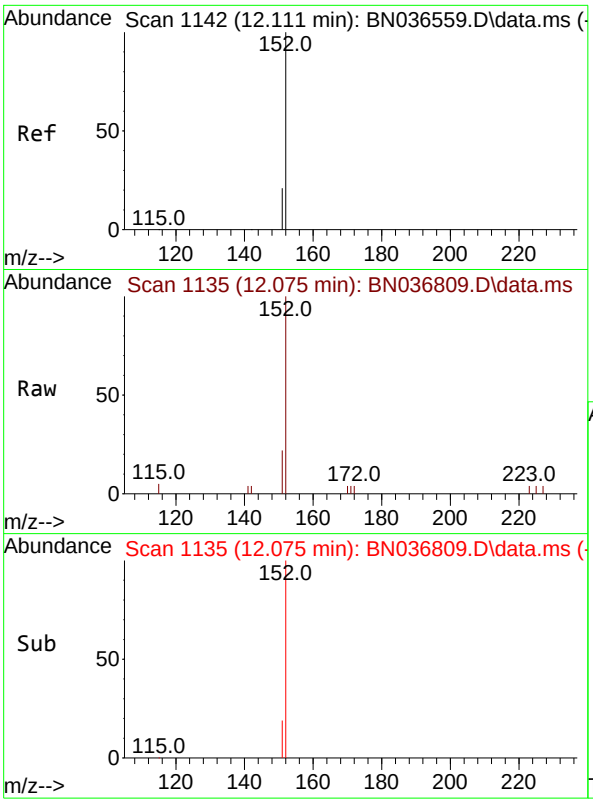


#10
Hexachlorobutadiene
Concen: 0.354 ng
RT: 10.818 min Scan# 959
Delta R.T. -0.032 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:225 Resp: 1142

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.1	51.8	77.8



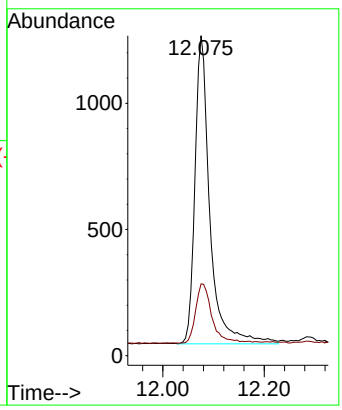


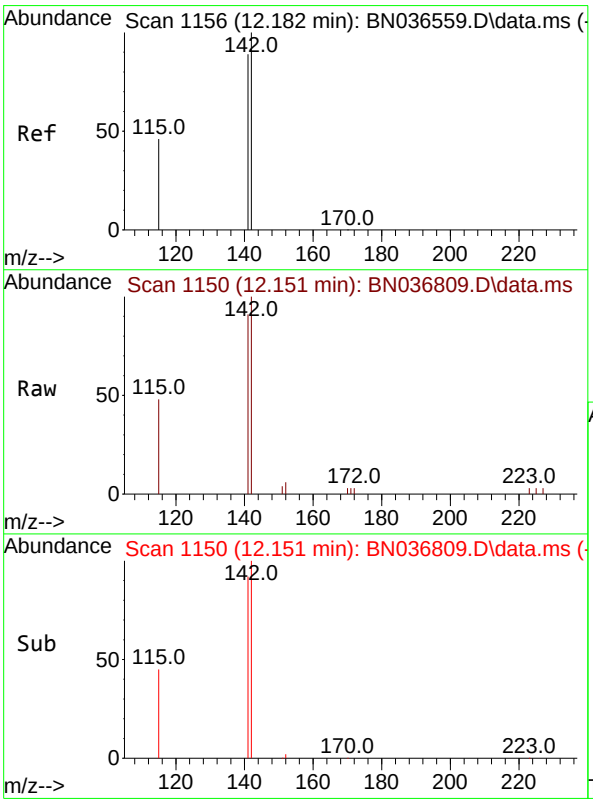
#11
2-Methylnaphthalene-d10
Concen: 0.361 ng
RT: 12.075 min Scan# 11
Delta R.T. -0.035 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 2501

Ion	Ratio	Lower	Upper
152	100		
151	20.8	17.0	25.6

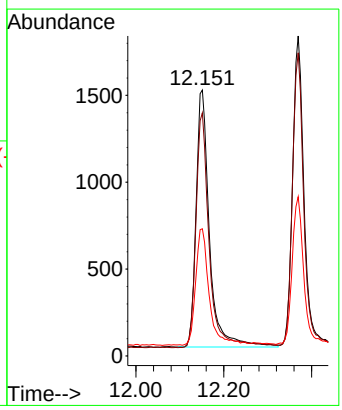


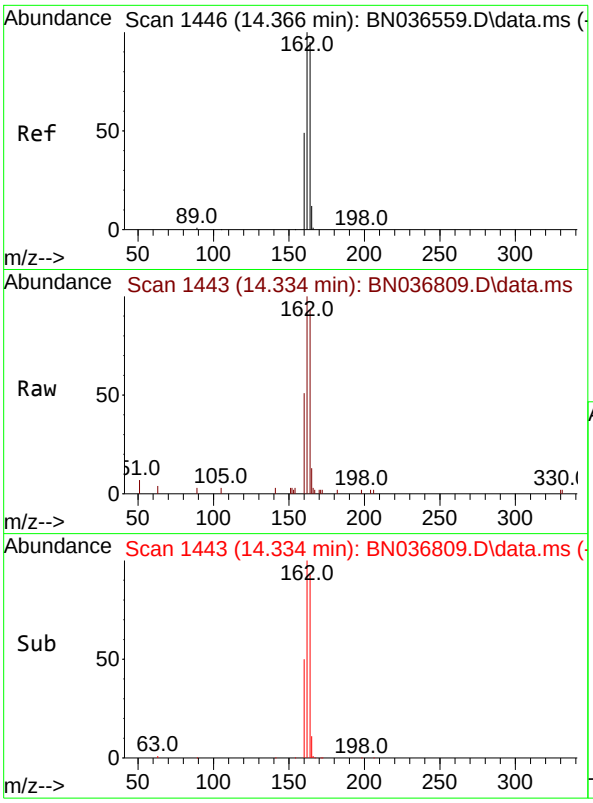


#12
2-Methylnaphthalene
Concen: 0.361 ng
RT: 12.151 min Scan# 1150
Delta R.T. -0.030 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:142 Resp: 3144

Ion	Ratio	Lower	Upper
142	100		
141	91.4	71.7	107.5
115	47.8	38.3	57.5



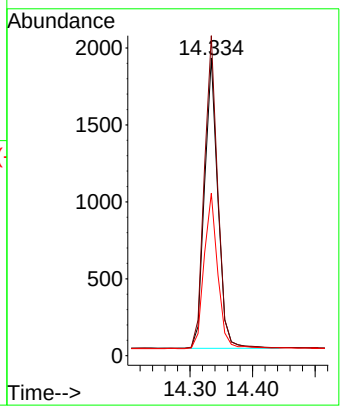


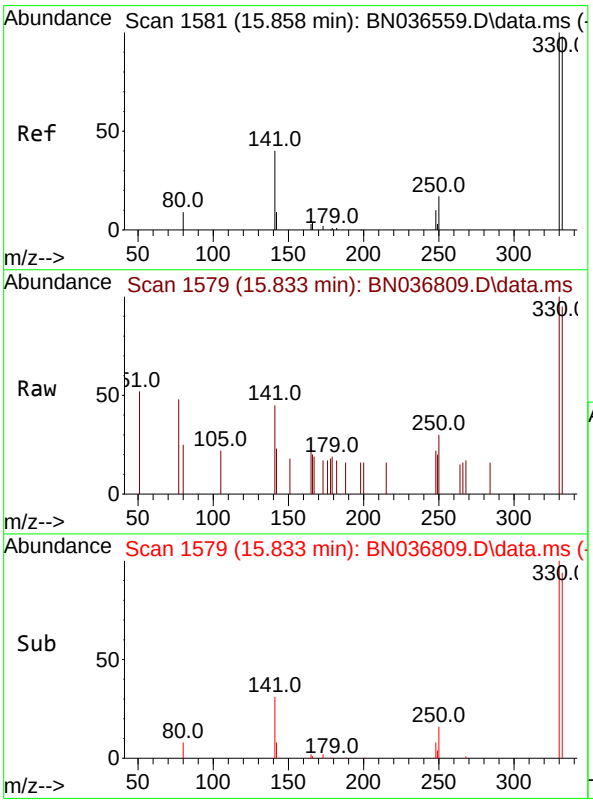
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:164 Resp: 2798

Ion	Ratio	Lower	Upper
164	100		
162	107.5	84.2	126.2
160	54.6	42.2	63.2

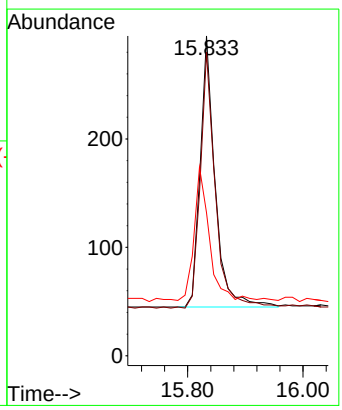


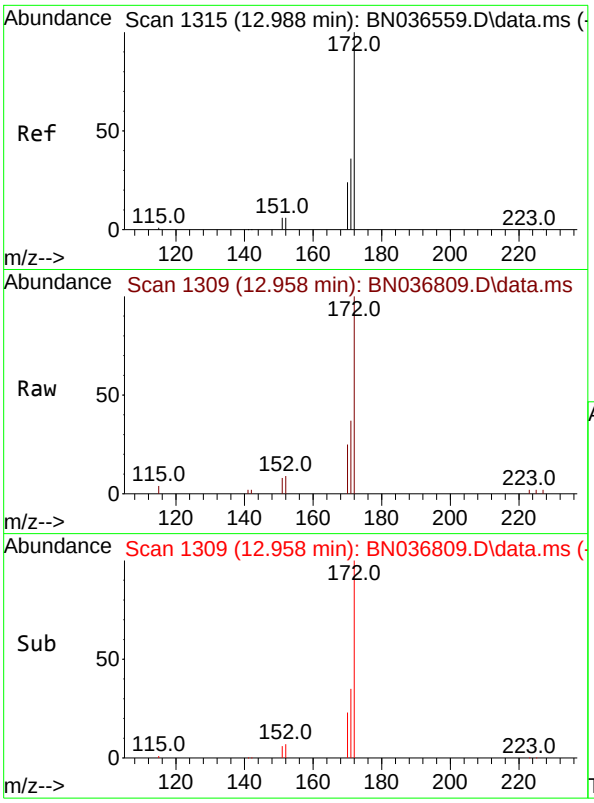


#14
2,4,6-Tribromophenol
Concen: 0.355 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.025 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:330 Resp: 451

Ion	Ratio	Lower	Upper
330	100		
332	95.3	75.2	112.8
141	53.9	43.4	65.2



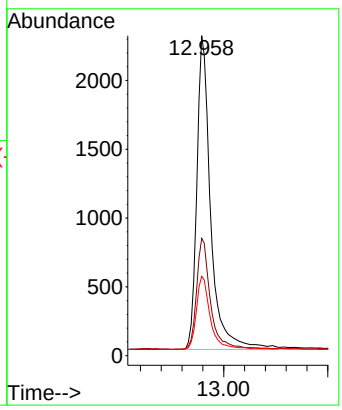


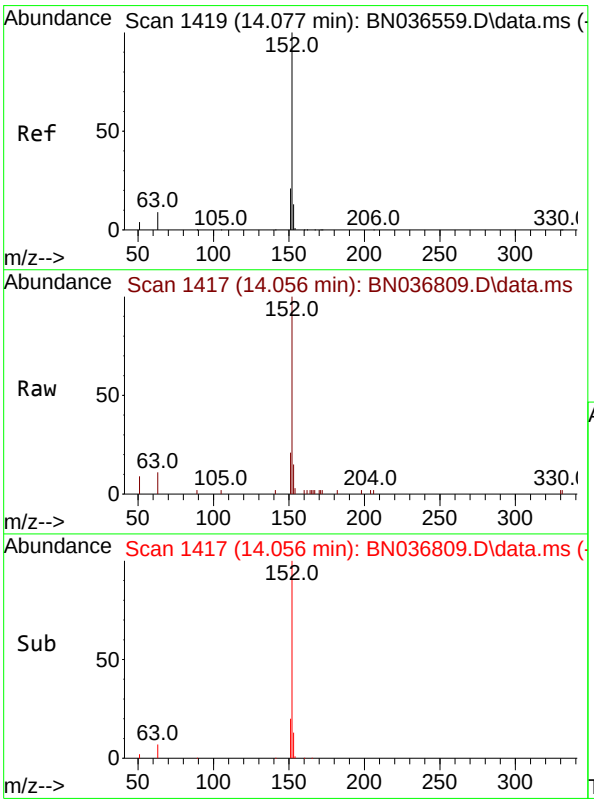
#15
2-Fluorobiphenyl
Concen: 0.340 ng
RT: 12.958 min Scan# 1
Delta R.T. -0.030 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:172 Resp: 5537

Ion	Ratio	Lower	Upper
172	100		
171	36.6	29.5	44.3
170	24.8	20.2	30.4

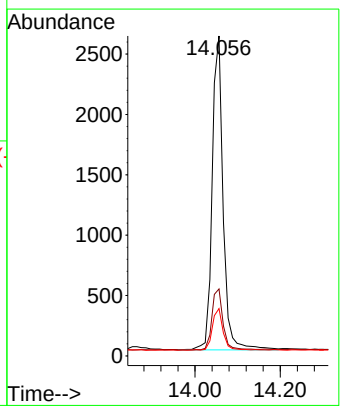


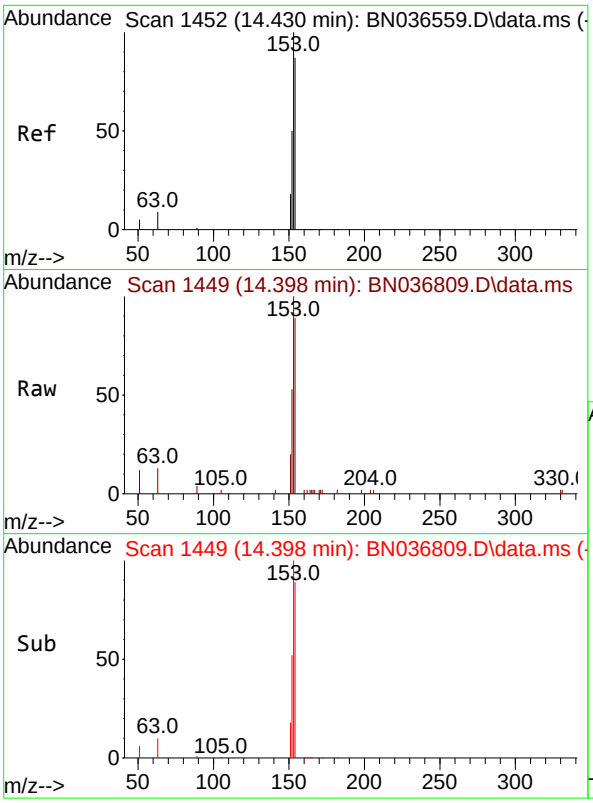


#16
Acenaphthylene
Concen: 0.350 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.021 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:152 Resp: 4617

Ion	Ratio	Lower	Upper
152	100		
151	19.5	16.2	24.4
153	13.2	10.6	15.8



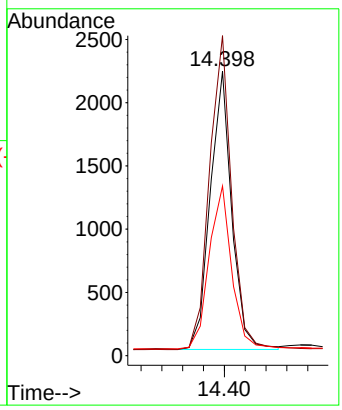


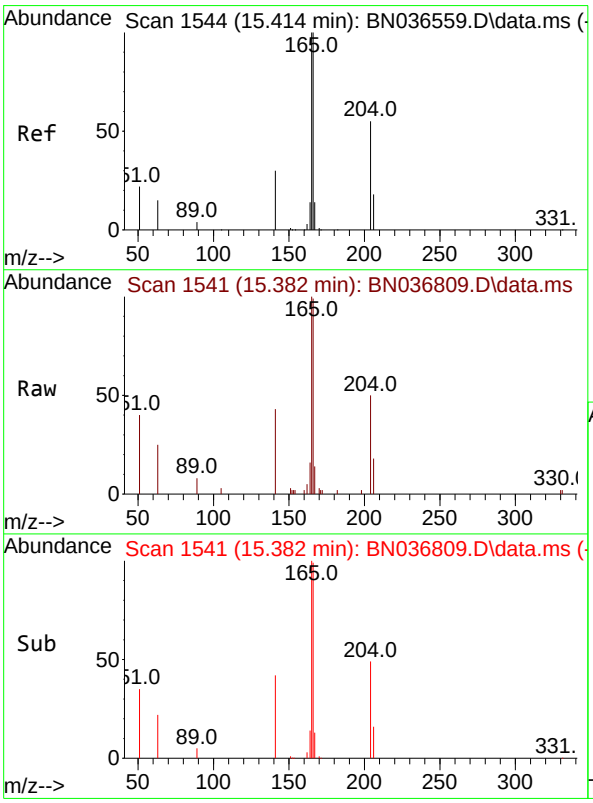
#17
Acenaphthene
Concen: 0.366 ng
RT: 14.398 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:154 Resp: 3162

Ion	Ratio	Lower	Upper
154	100		
153	116.9	94.1	141.1
152	62.4	49.8	74.6

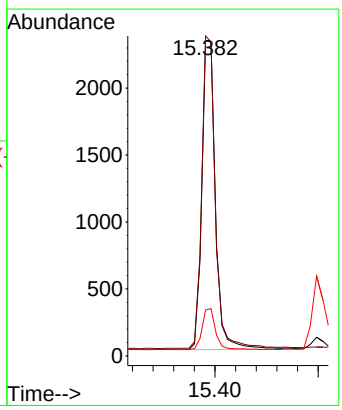


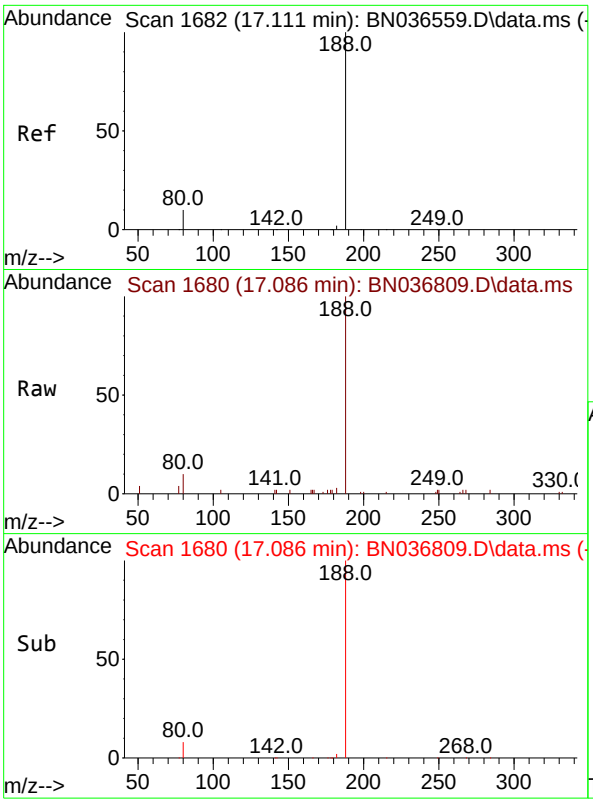


#18
Fluorene
Concen: 0.362 ng
RT: 15.382 min Scan# 1541
Delta R.T. -0.032 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:166 Resp: 4232

Ion	Ratio	Lower	Upper
166	100		
165	100.4	79.8	119.8
167	13.2	10.6	15.8



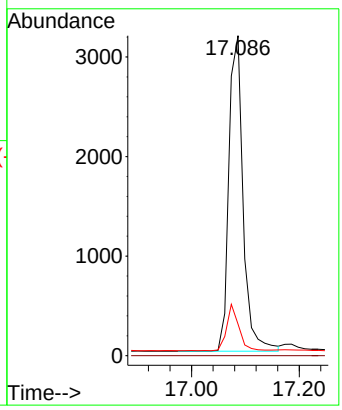


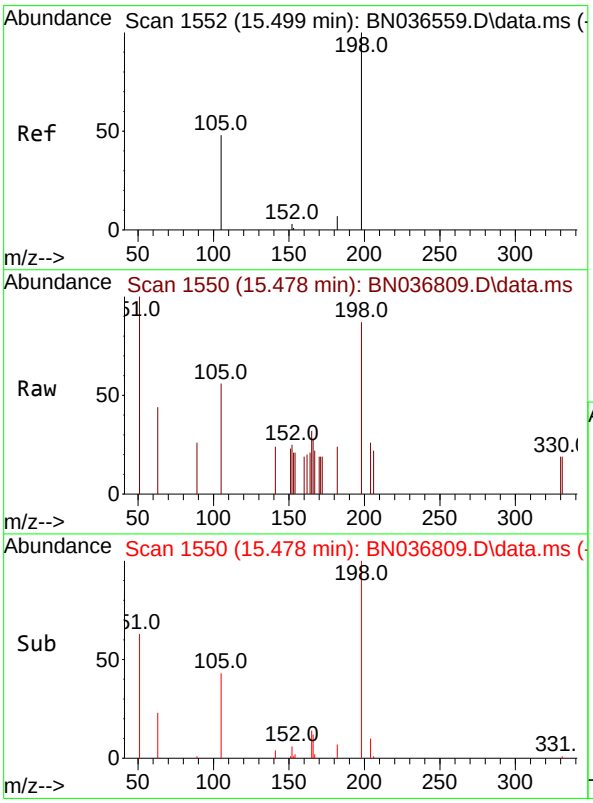
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:188 Resp: 5809

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.9	8.8	13.2

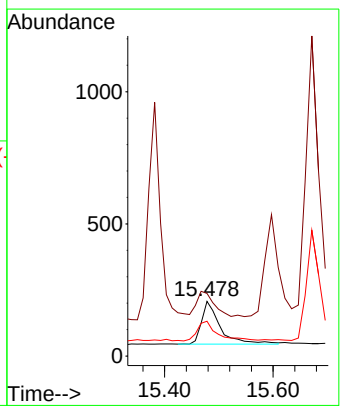


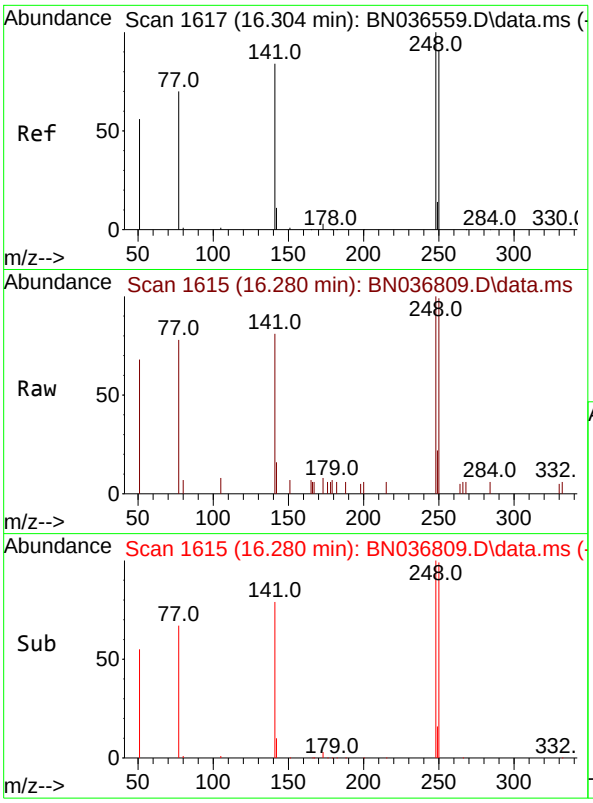


#20
4,6-Dinitro-2-methylphenol
Concen: 0.419 ng
RT: 15.478 min Scan# 1550
Delta R.T. -0.021 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:198 Resp: 405

Ion	Ratio	Lower	Upper
198	100		
51	114.5	107.9	161.9
105	63.8	56.2	84.2



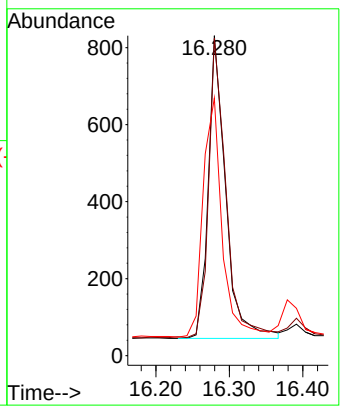


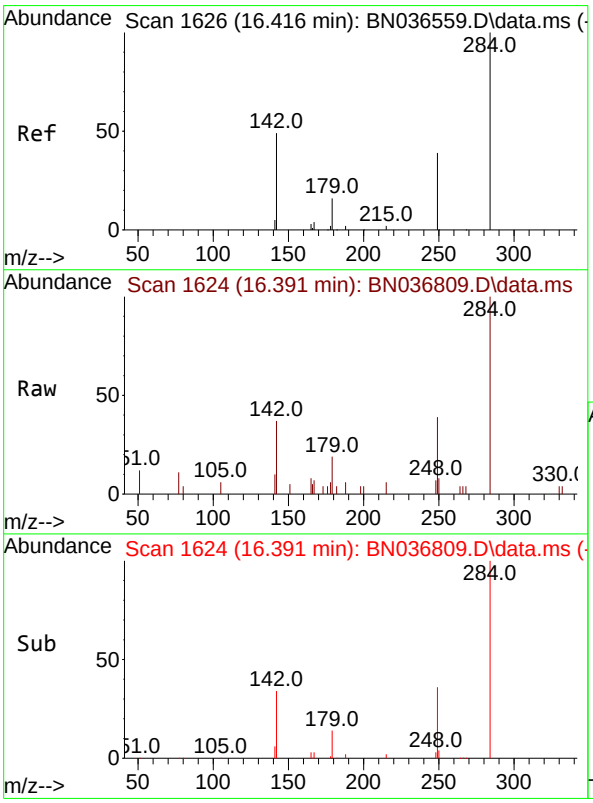
#21
4-Bromophenyl-phenylether
Concen: 0.355 ng
RT: 16.280 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:248 Resp: 1292

Ion	Ratio	Lower	Upper
248	100		
250	99.2	73.0	109.6
141	80.5	68.6	103.0

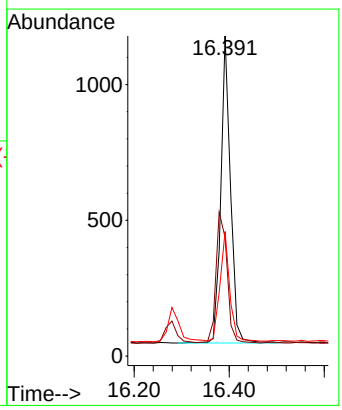


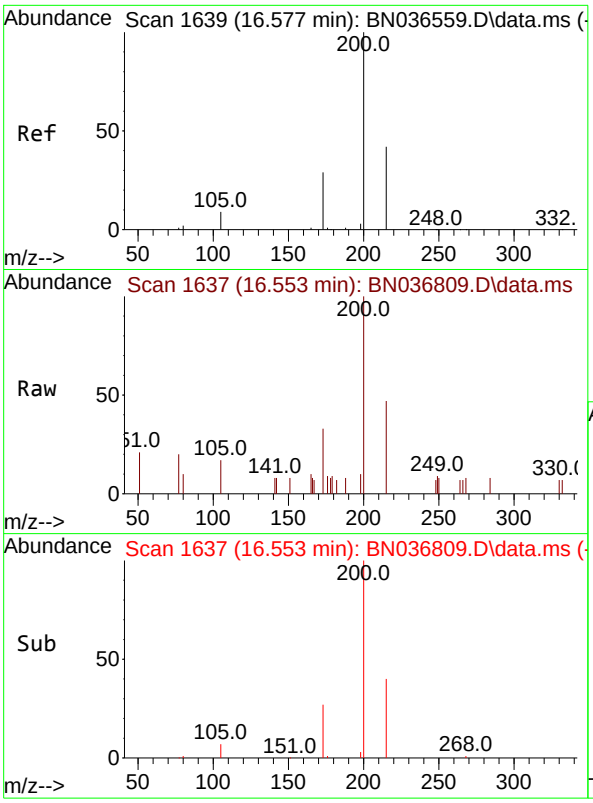


#22
Hexachlorobenzene
Concen: 0.361 ng
RT: 16.391 min Scan# 1624
Delta R.T. -0.025 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:284 Resp: 1587

Ion	Ratio	Lower	Upper
284	100		
142	49.0	37.0	55.4
249	35.5	28.1	42.1



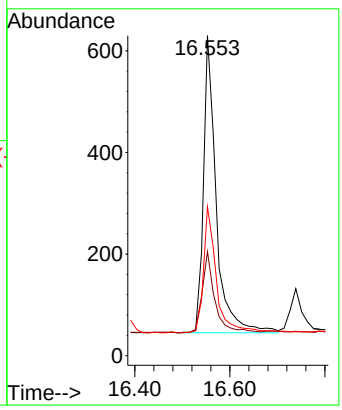


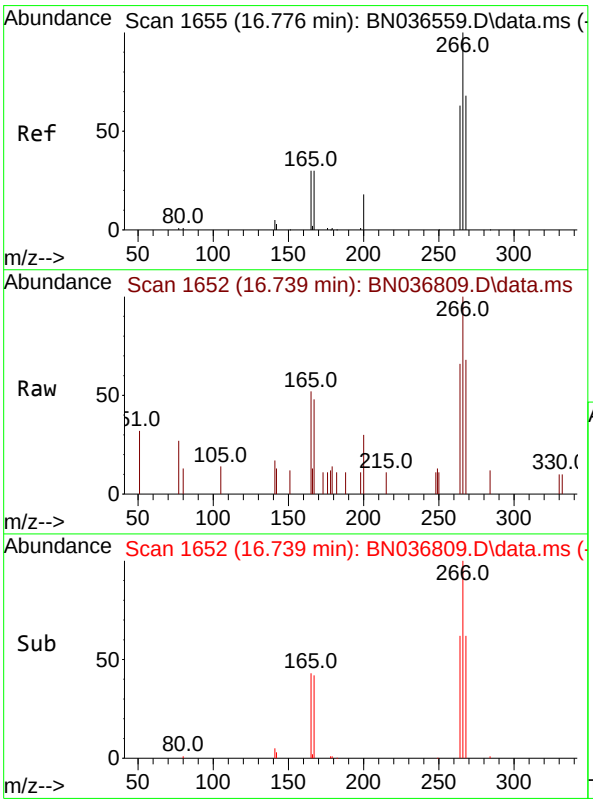
#23
Atrazine
Concen: 0.376 ng
RT: 16.553 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:200 Resp: 1096

Ion	Ratio	Lower	Upper
200	100		
173	32.5	27.3	40.9
215	46.5	36.8	55.2

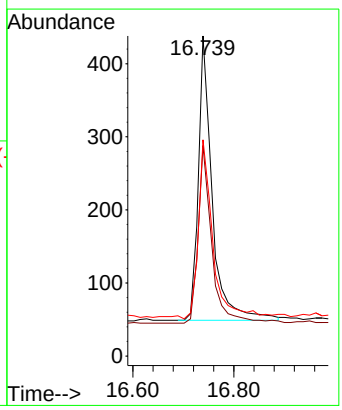


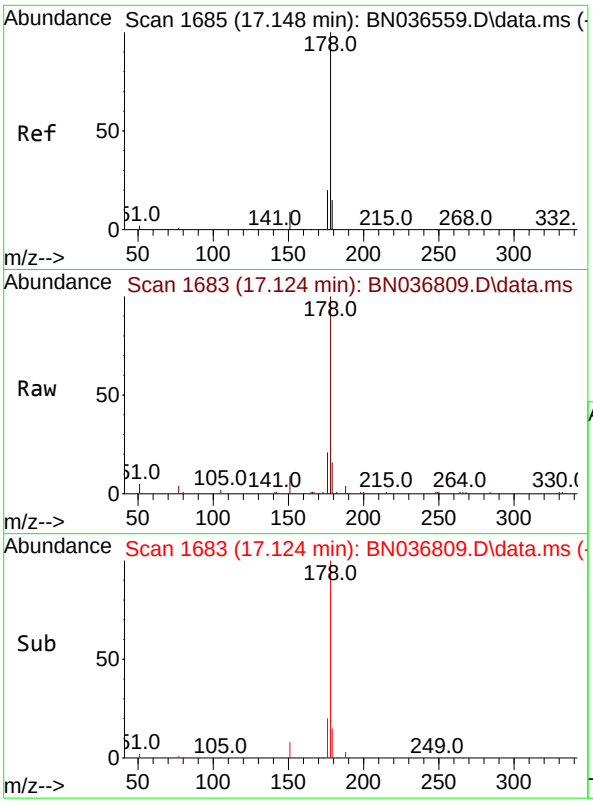


#24
Pentachlorophenol
Concen: 0.371 ng
RT: 16.739 min Scan# 1652
Delta R.T. -0.037 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:266 Resp: 743

Ion	Ratio	Lower	Upper
266	100		
264	61.8	49.6	74.4
268	66.6	50.9	76.3



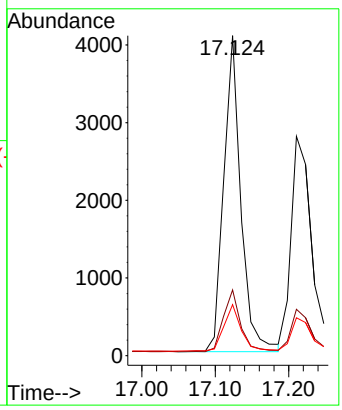


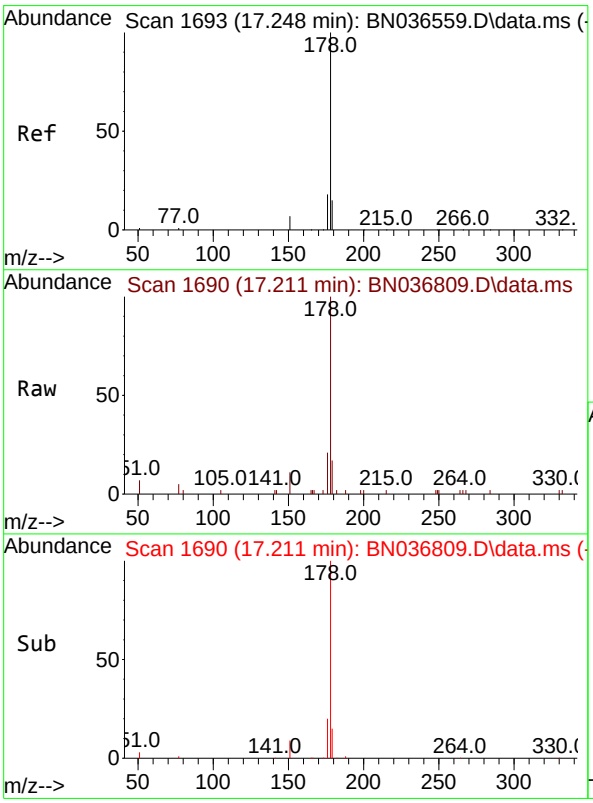
#25
Phenanthrene
Concen: 0.378 ng
RT: 17.124 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:178 Resp: 6581

Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.9	23.9
179	15.1	12.2	18.4

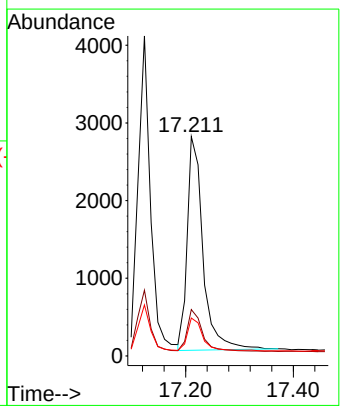


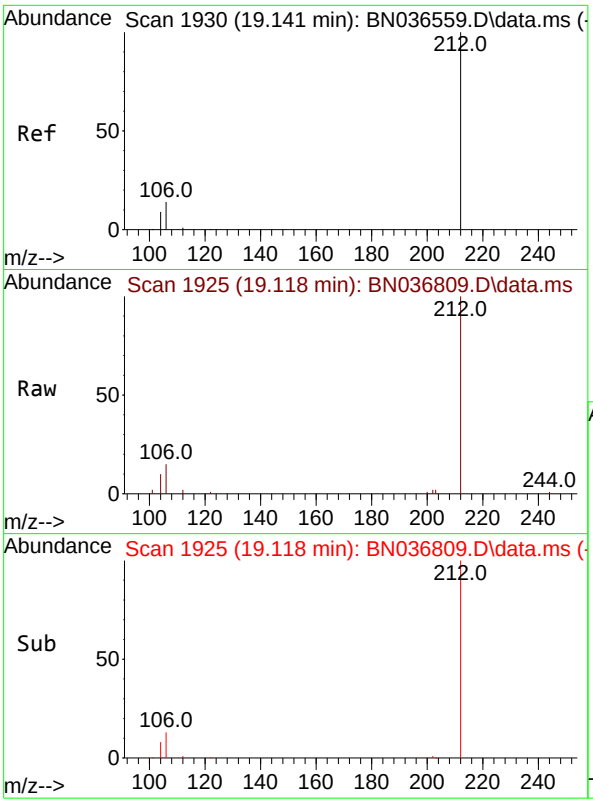


#26
Anthracene
Concen: 0.355 ng
RT: 17.211 min Scan# 1690
Delta R.T. -0.037 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:178 Resp: 5583

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.4	23.2
179	15.3	12.6	18.8



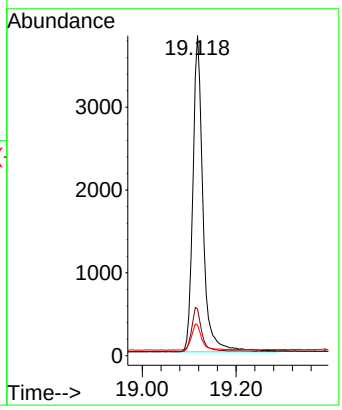


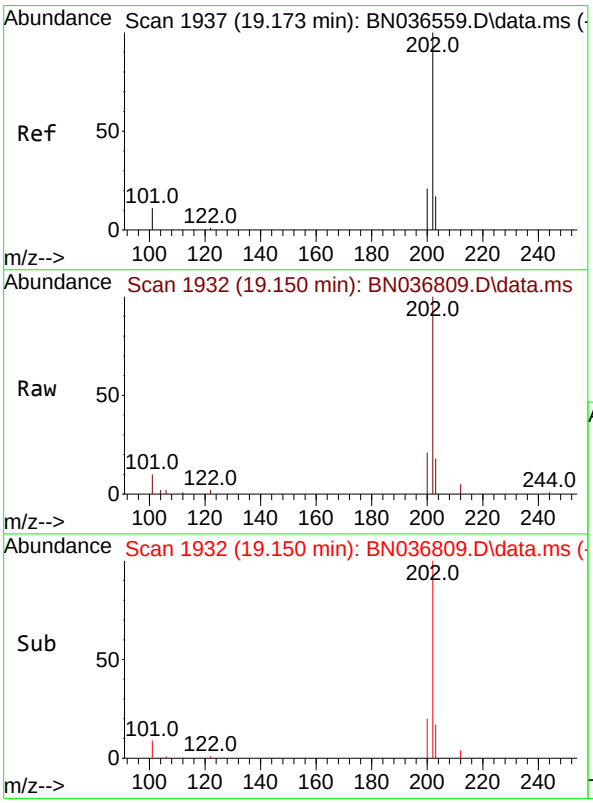
#27
Fluoranthene-d10
Concen: 0.386 ng
RT: 19.118 min Scan# 1
Delta R.T. -0.023 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:212 Resp: 5750

Ion	Ratio	Lower	Upper
212	100		
106	13.6	11.8	17.6
104	8.5	7.3	10.9

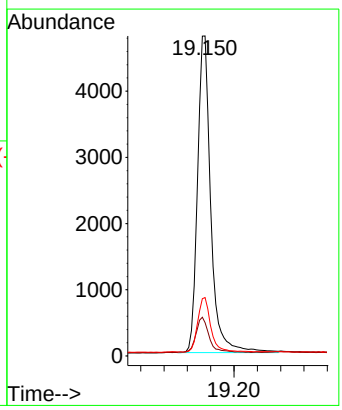


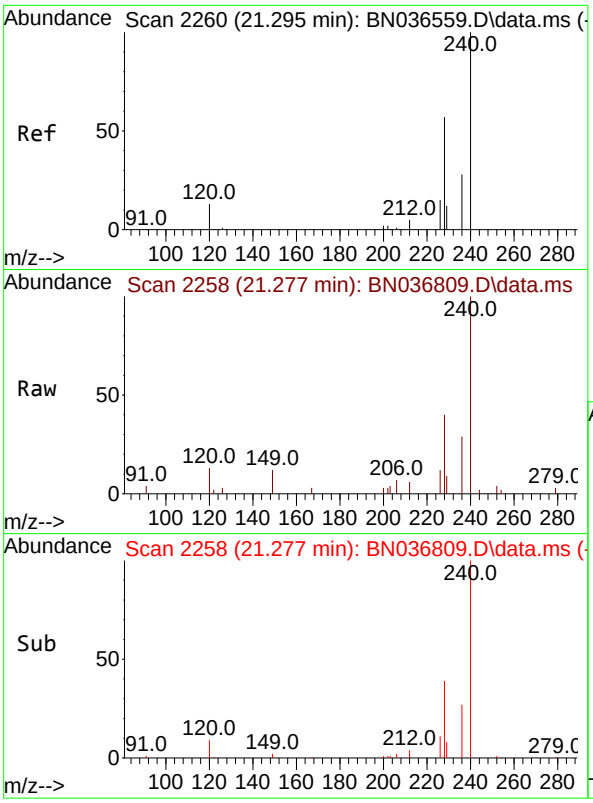


#28
Fluoranthene
Concen: 0.388 ng
RT: 19.150 min Scan# 1932
Delta R.T. -0.023 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:202 Resp: 7591

Ion	Ratio	Lower	Upper
202	100		
101	11.2	9.4	14.0
203	17.1	13.5	20.3



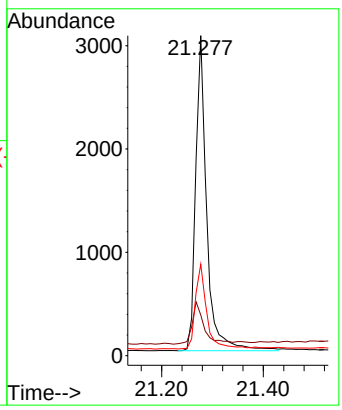


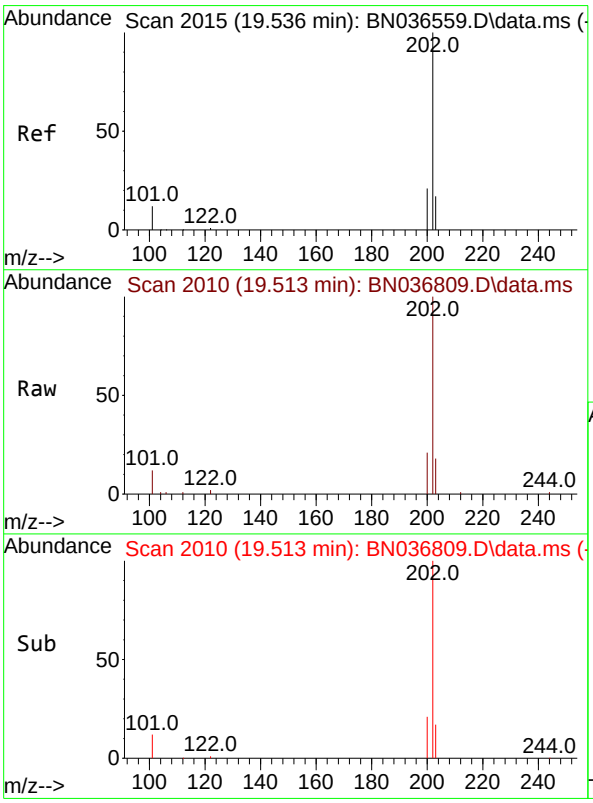
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:240 Resp: 4586

Ion	Ratio	Lower	Upper
240	100		
120	12.7	14.6	22.0#
236	28.6	24.1	36.1

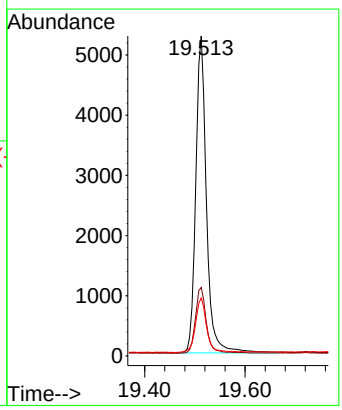


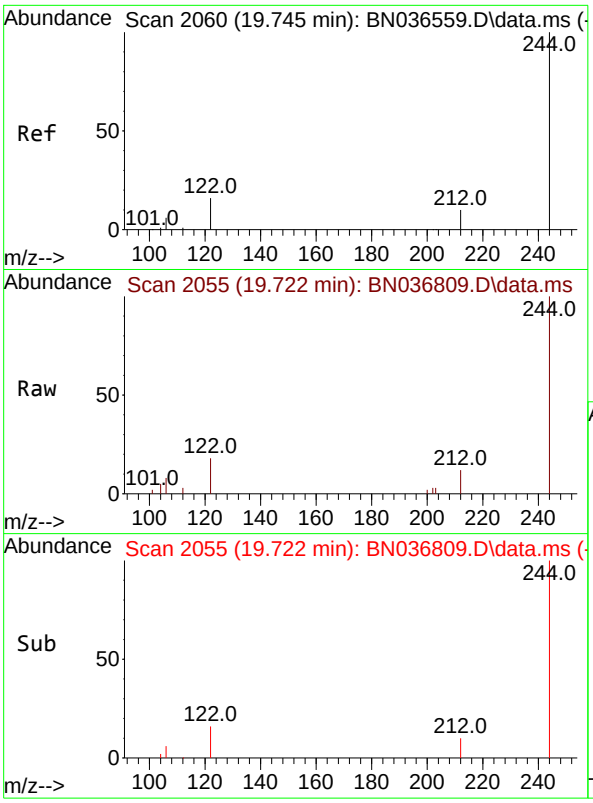


#30
Pyrene
Concen: 0.348 ng
RT: 19.513 min Scan# 2010
Delta R.T. -0.023 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:202 Resp: 7799

Ion	Ratio	Lower	Upper
202	100		
200	21.1	17.1	25.7
203	17.5	14.1	21.1



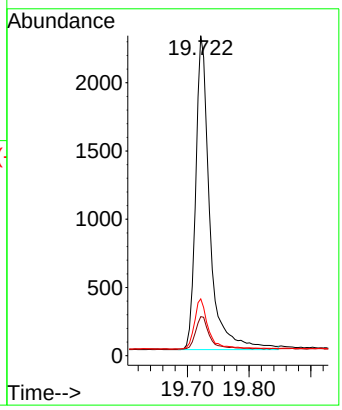


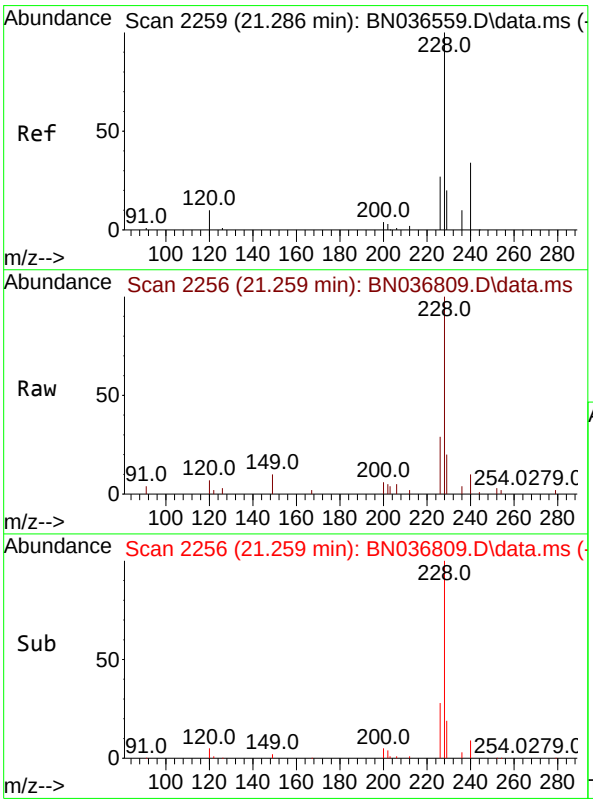
#31
Terphenyl-d14
Concen: 0.333 ng
RT: 19.722 min Scan# 2
Delta R.T. -0.023 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:244 Resp: 3660

Ion	Ratio	Lower	Upper
244	100		
212	12.2	9.6	14.4
122	17.7	13.9	20.9

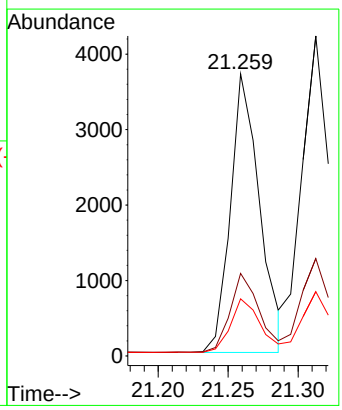


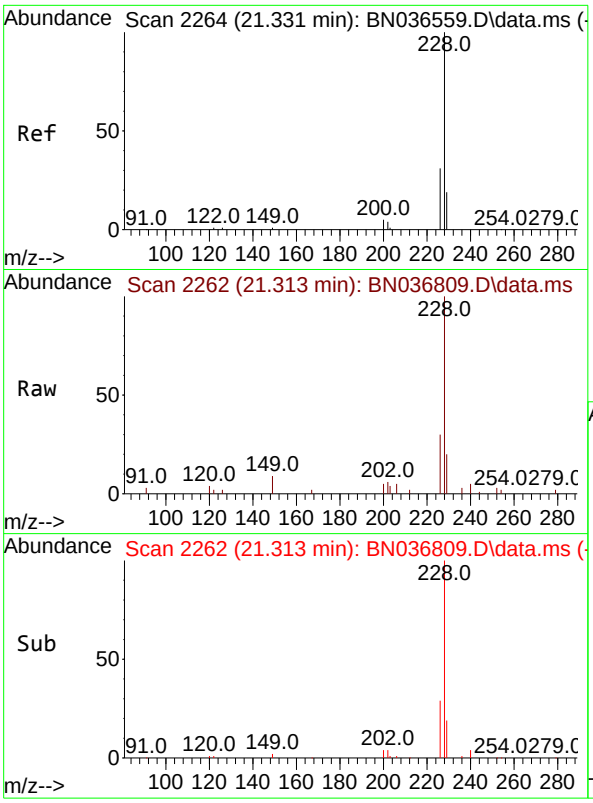


#32
Benzo(a)anthracene
Concen: 0.337 ng
RT: 21.259 min Scan# 2256
Delta R.T. -0.027 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:228 Resp: 5377

Ion	Ratio	Lower	Upper
228	100		
226	29.3	22.5	33.7
229	20.2	16.6	25.0



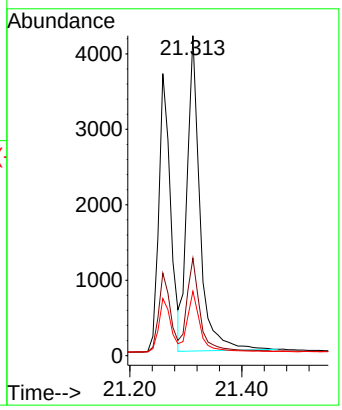


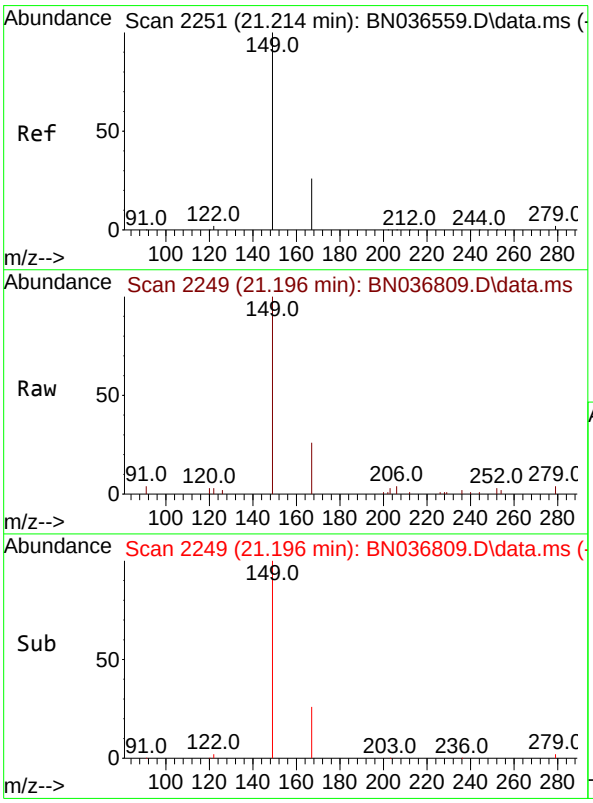
#33
Chrysene
Concen: 0.381 ng
RT: 21.313 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:228 Resp: 6640

Ion	Ratio	Lower	Upper
228	100		
226	30.4	25.3	37.9
229	20.1	15.8	23.8

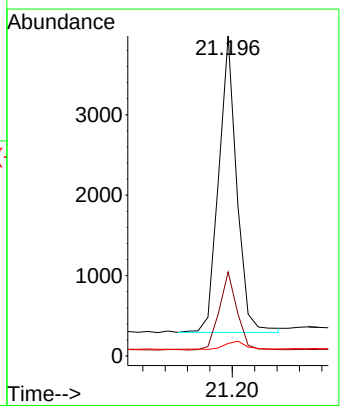


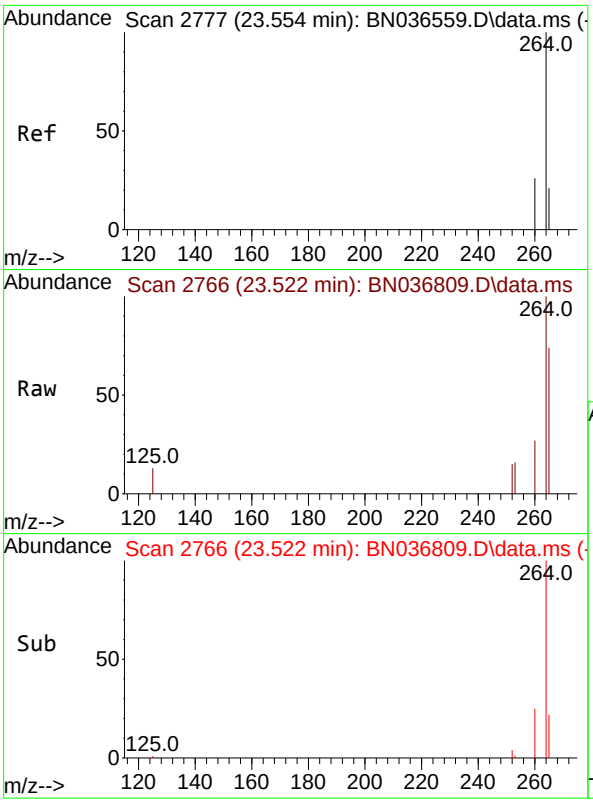


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.365 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:149 Resp: 4143

Ion	Ratio	Lower	Upper
149	100		
167	26.0	20.7	31.1
279	3.0	3.6	5.4#



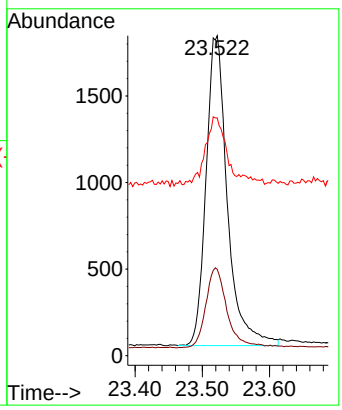


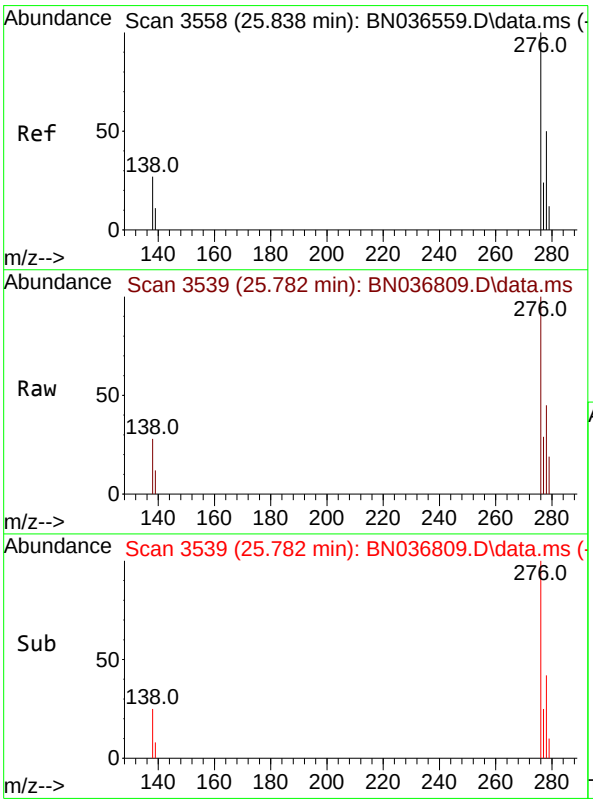
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.522 min Scan# 2
Delta R.T. -0.032 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:264 Resp: 3945

Ion	Ratio	Lower	Upper
264	100		
260	27.0	22.6	33.8
265	74.3	88.1	132.1#

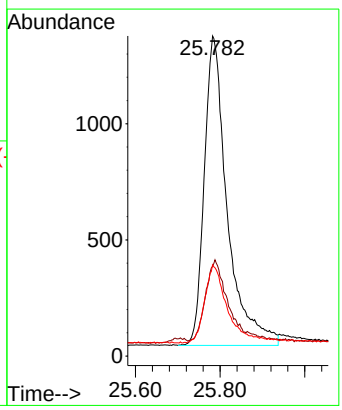


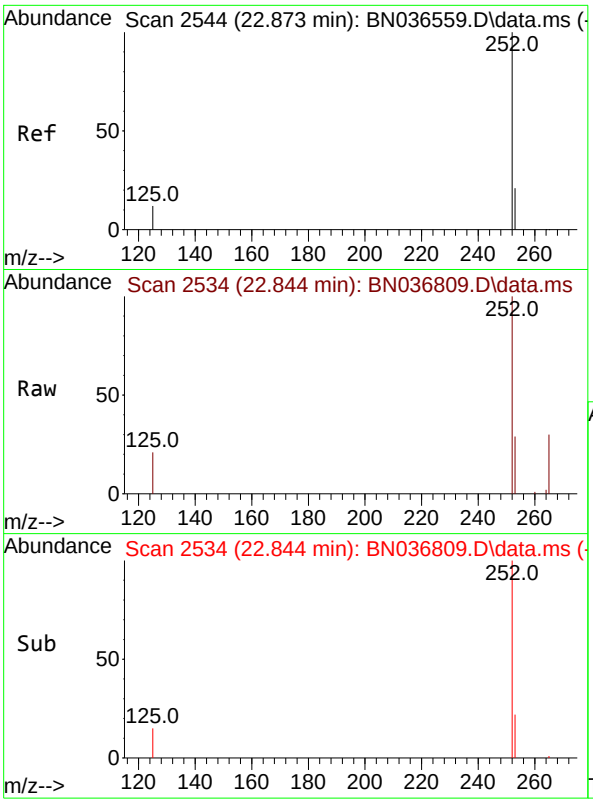


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.352 ng
RT: 25.782 min Scan# 3539
Delta R.T. -0.056 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:276 Resp: 5019

Ion	Ratio	Lower	Upper
276	100		
138	24.2	23.4	35.2
277	24.6	20.0	30.0



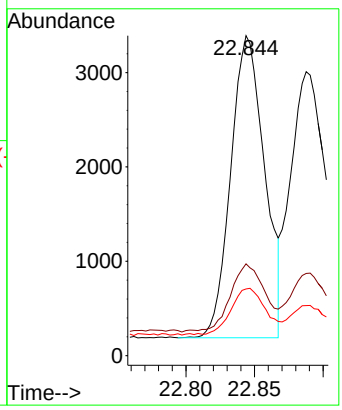


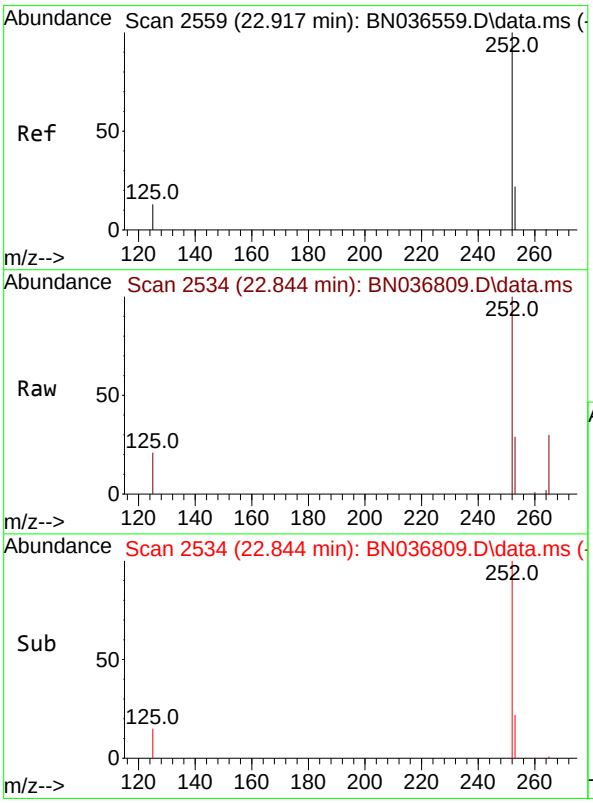
#37
Benzo(b)fluoranthene
Concen: 0.383 ng
RT: 22.844 min Scan# 2
Delta R.T. -0.029 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 5495

Ion	Ratio	Lower	Upper
252	100		
253	28.7	23.9	35.9
125	20.8	17.4	26.2

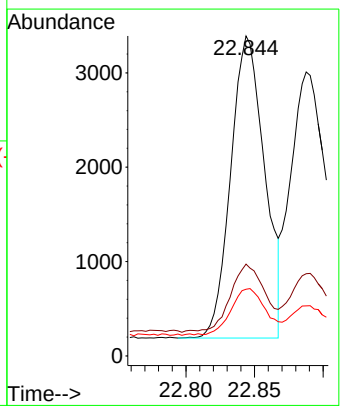


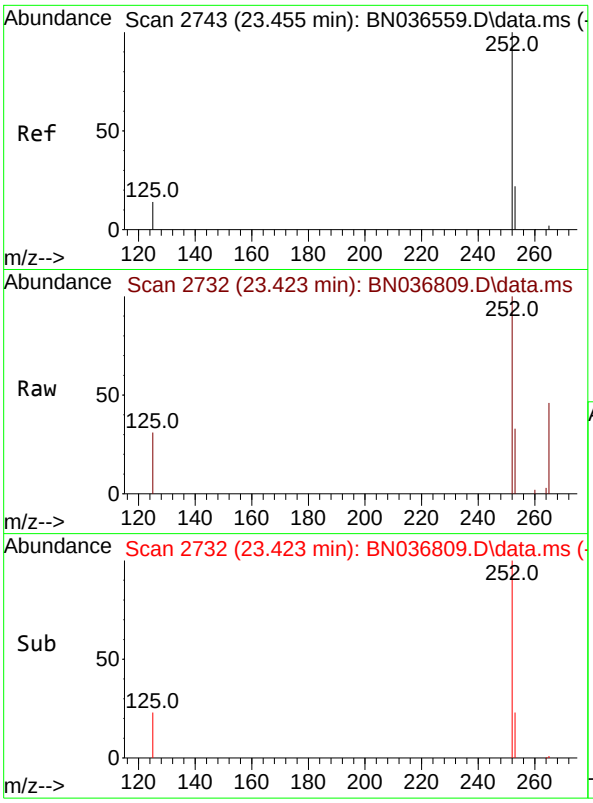


#38
Benzo(k)fluoranthene
Concen: 0.365 ng
RT: 22.844 min Scan# 2534
Delta R.T. -0.073 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:252 Resp: 5495

Ion	Ratio	Lower	Upper
252	100		
253	28.7	24.6	36.8
125	20.8	17.8	26.8



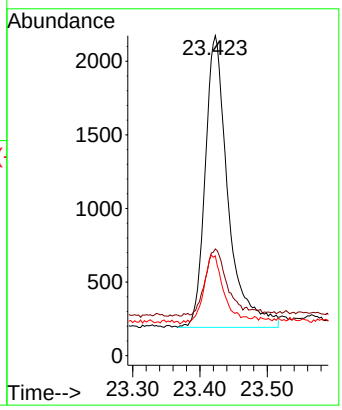


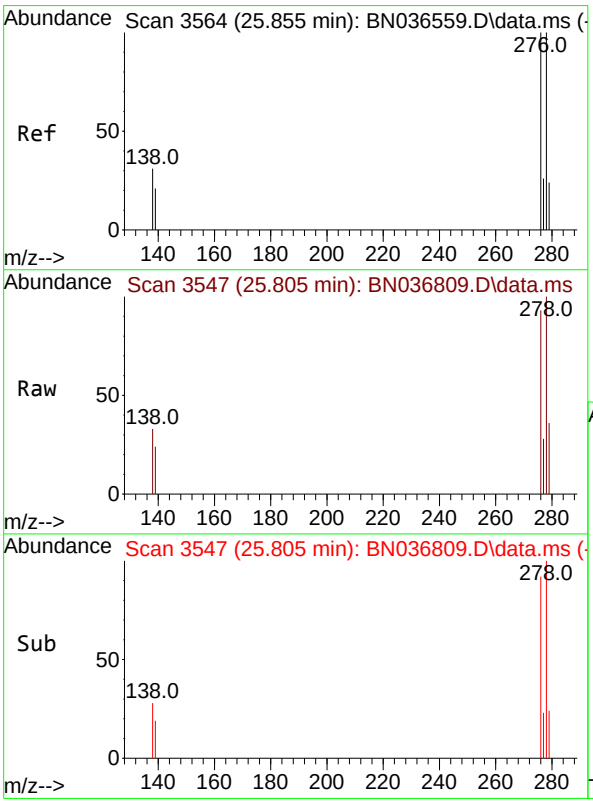
#39
Benzo(a)pyrene
Concen: 0.387 ng
RT: 23.423 min Scan# 2
Delta R.T. -0.032 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 4679

Ion	Ratio	Lower	Upper
252	100		
253	33.3	27.8	41.8
125	31.2	22.7	34.1

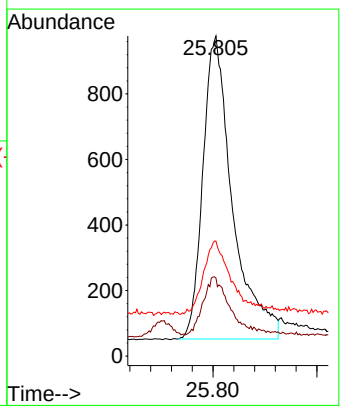


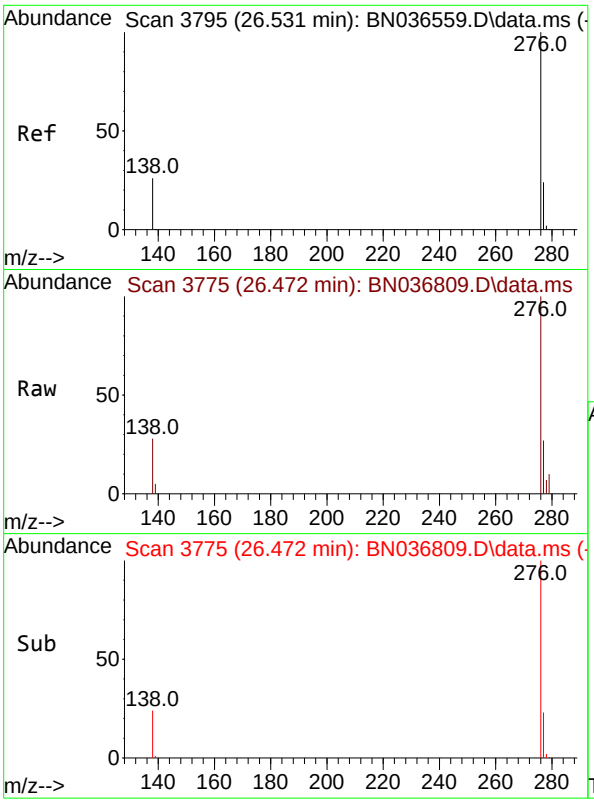


#40
Dibenzo(a,h)anthracene
Concen: 0.330 ng
RT: 25.805 min Scan# 3547
Delta R.T. -0.050 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:278 Resp: 3655

Ion	Ratio	Lower	Upper
278	100		
139	24.4	20.8	31.2
279	35.9	28.8	43.2



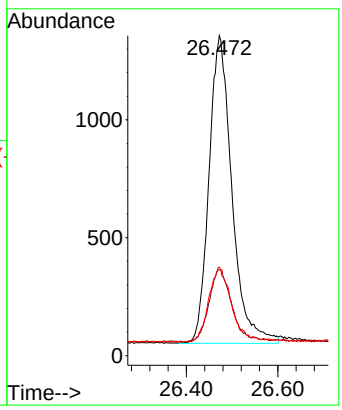


#41
Benzo(g,h,i)perylene
Concen: 0.358 ng
RT: 26.472 min Scan# 3
Delta R.T. -0.058 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:276 Resp: 4543

Ion	Ratio	Lower	Upper
276	100		
277	26.8	22.2	33.4
138	27.6	24.1	36.1



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN033125\
Data File : BN036815.D
Acq On : 31 Mar 2025 15:08
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Mar 31 15:30:13 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

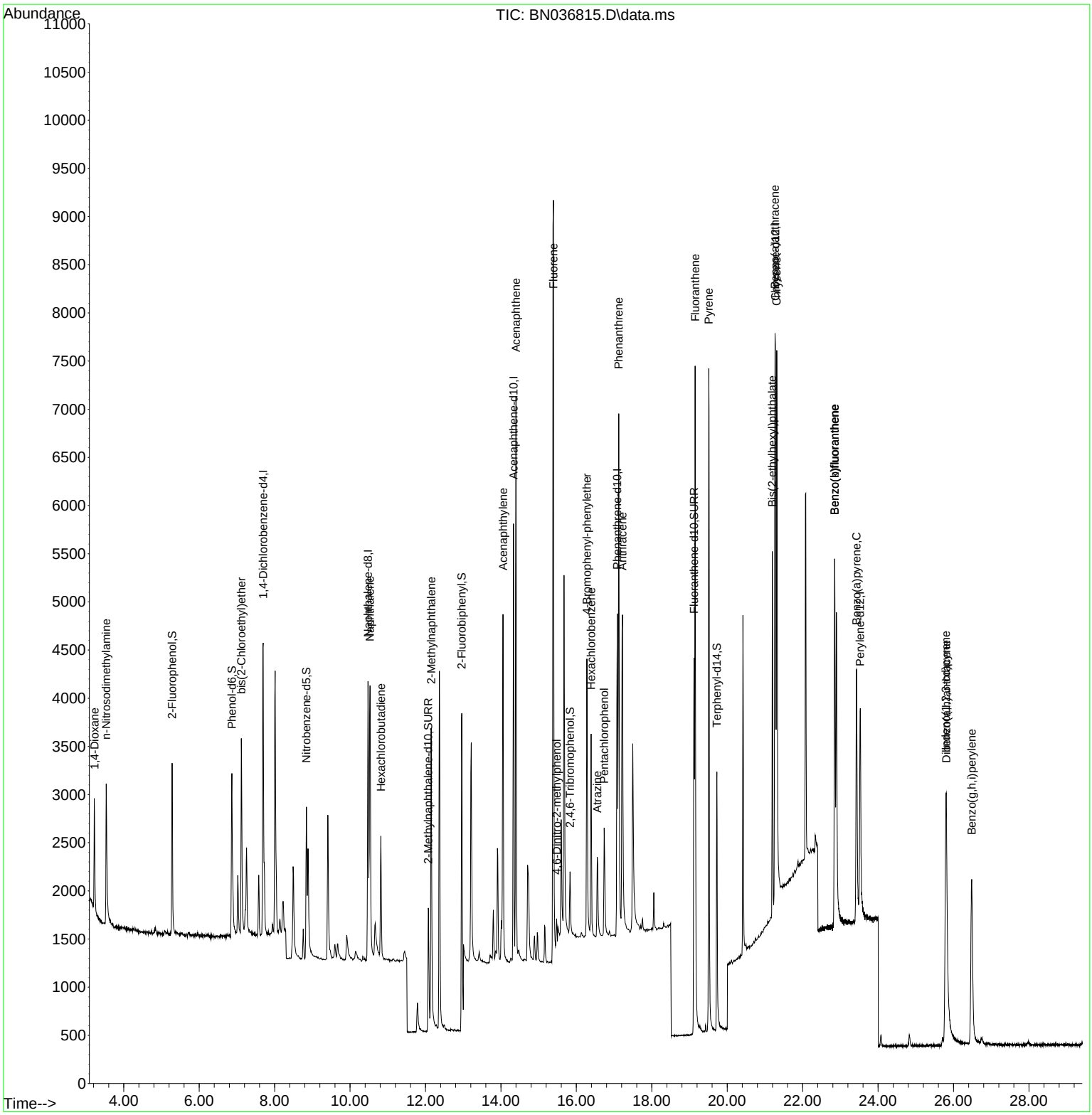
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.696	152	1563	0.400	ng		-0.03
7) Naphthalene-d8	10.477	136	4089	0.400	ng		-0.03
13) Acenaphthene-d10	14.334	164	2524	0.400	ng		-0.03
19) Phenanthrene-d10	17.087	188	5032	0.400	ng		-0.02
29) Chrysene-d12	21.277	240	3863	0.400	ng		-0.02
35) Perylene-d12	23.525	264	3435	0.400	ng		#-0.03
System Monitoring Compounds							
4) 2-Fluorophenol	5.283	112	1311	0.360	ng		-0.03
5) Phenol-d6	6.865	99	1525	0.339	ng		-0.04
8) Nitrobenzene-d5	8.843	82	1424	0.320	ng		-0.03
11) 2-Methylnaphthalene-d10	12.075	152	2219	0.365	ng		-0.04
14) 2,4,6-Tribromophenol	15.833	330	402	0.351	ng		-0.02
15) 2-Fluorobiphenyl	12.963	172	4939	0.336	ng		-0.03
27) Fluoranthene-d10	19.118	212	5000	0.388	ng		-0.02
31) Terphenyl-d14	19.726	244	3254	0.352	ng		-0.02
Target Compounds							Qvalue
2) 1,4-Dioxane	3.225	88	698	0.403	ng		97
3) n-Nitrosodimethylamine	3.536	42	1430	0.408	ng		93
6) bis(2-Chloroethyl)ether	7.118	93	1597	0.343	ng		98
9) Naphthalene	10.530	128	4210	0.350	ng		99
10) Hexachlorobutadiene	10.818	225	998	0.352	ng	#	99
12) 2-Methylnaphthalene	12.151	142	2722	0.356	ng		99
16) Acenaphthylene	14.056	152	4054	0.340	ng		100
17) Acenaphthene	14.398	154	2777	0.356	ng		99
18) Fluorene	15.393	166	3732	0.354	ng		99
20) 4,6-Dinitro-2-methylph...	15.478	198	396	0.454	ng		85
21) 4-Bromophenyl-phenylether	16.280	248	1144	0.363	ng		94
22) Hexachlorobenzene	16.391	284	1380	0.363	ng		95
23) Atrazine	16.553	200	954	0.377	ng		97
24) Pentachlorophenol	16.739	266	651	0.375	ng		97
25) Phenanthrene	17.124	178	5703	0.378	ng		100
26) Anthracene	17.223	178	4933	0.362	ng		99
28) Fluoranthene	19.150	202	6761	0.399	ng		98
30) Pyrene	19.513	202	6826	0.361	ng		100
32) Benzo(a)anthracene	21.268	228	4715	0.351	ng		99
33) Chrysene	21.313	228	5650	0.385	ng		100
34) Bis(2-ethylhexyl)phtha...	21.196	149	3477	0.364	ng	#	99
36) Indeno(1,2,3-cd)pyrene	25.800	276	4428	0.357	ng		94
37) Benzo(b)fluoranthene	22.850	252	4732	0.379	ng		98
38) Benzo(k)fluoranthene	22.850	252	4732	0.361	ng		98
39) Benzo(a)pyrene	23.429	252	4200	0.399	ng		97
40) Dibenzo(a,h)anthracene	25.811	278	3277	0.340	ng		97
41) Benzo(g,h,i)perylene	26.484	276	4006	0.363	ng		97

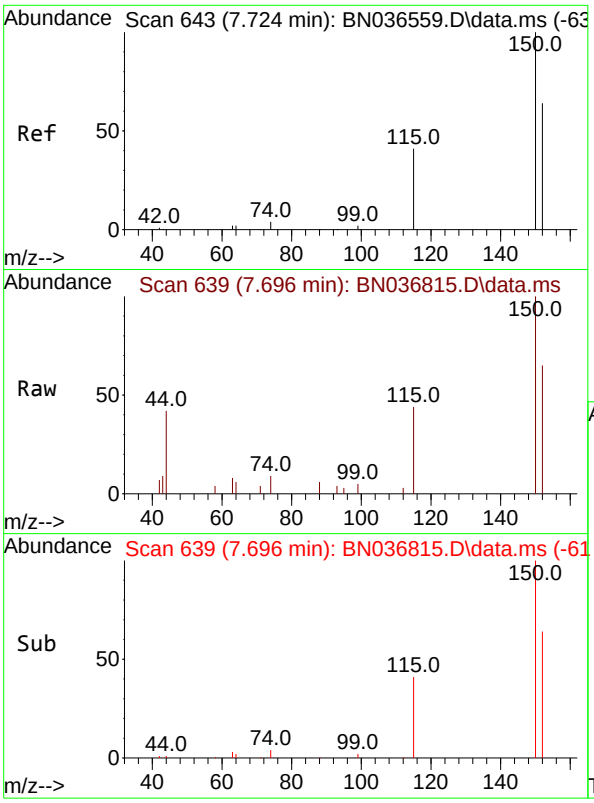
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN033125\
Data File : BN036815.D
Acq On : 31 Mar 2025 15:08
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Mar 31 15:30:13 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



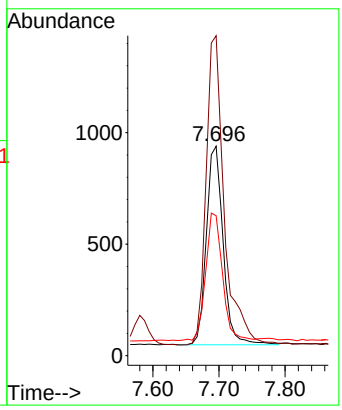


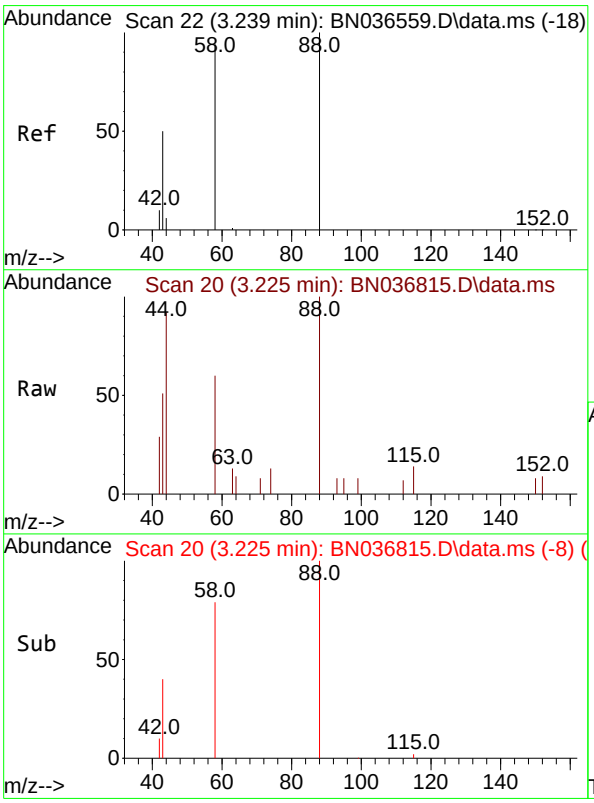
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.696 min Scan# 6
Delta R.T. -0.028 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 1563

Ion	Ratio	Lower	Upper
152	100		
150	152.8	123.7	185.5
115	66.9	54.3	81.5

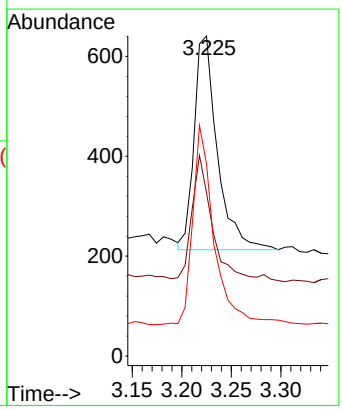


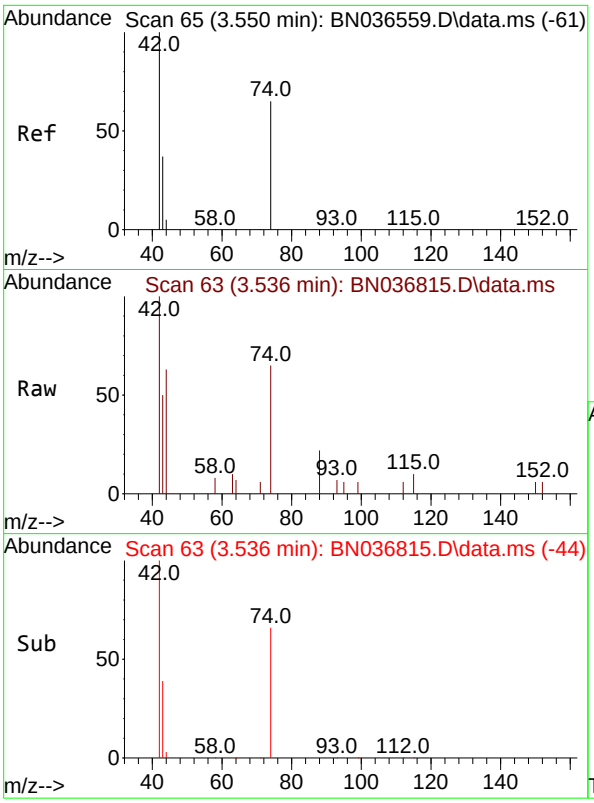


#2
1,4-Dioxane
Concen: 0.403 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion: 88 Resp: 698

Ion	Ratio	Lower	Upper
88	100		
43	51.7	37.8	56.8
58	85.5	67.4	101.2



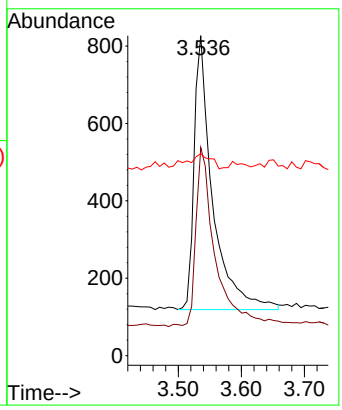


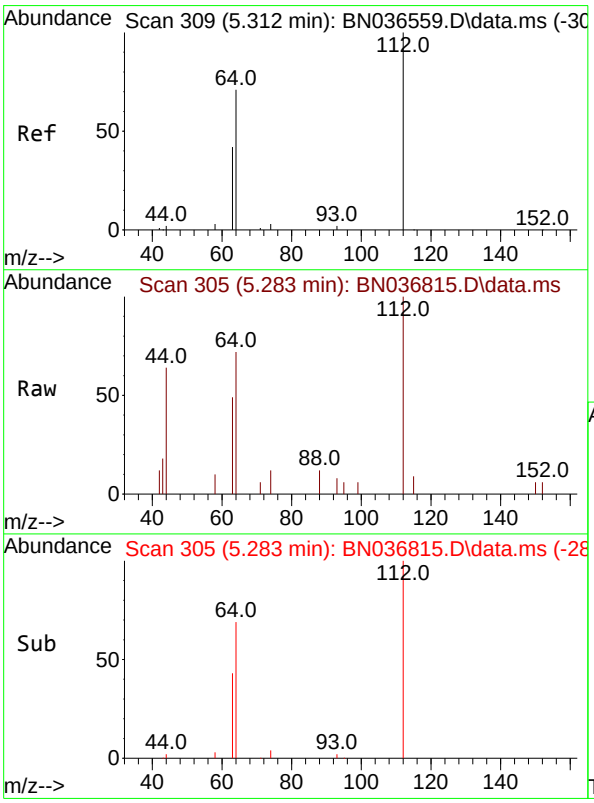
#3
n-Nitrosodimethylamine
Concen: 0.408 ng
RT: 3.536 min Scan# 6
Delta R.T. -0.014 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 42 Resp: 1430

Ion	Ratio	Lower	Upper
42	100		
74	69.3	60.6	90.8
44	6.6	6.3	9.5

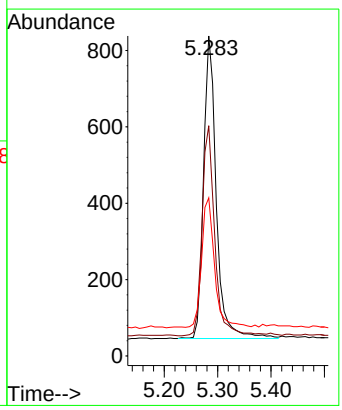


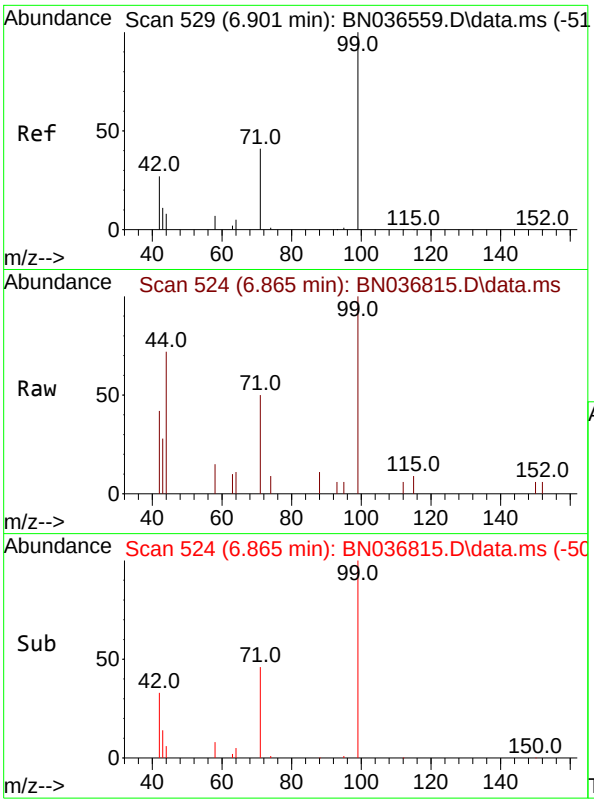


#4
2-Fluorophenol
Concen: 0.360 ng
RT: 5.283 min Scan# 305
Delta R.T. -0.029 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:112 Resp: 1311

Ion	Ratio	Lower	Upper
112	100		
64	69.4	53.1	79.7
63	43.9	31.8	47.8



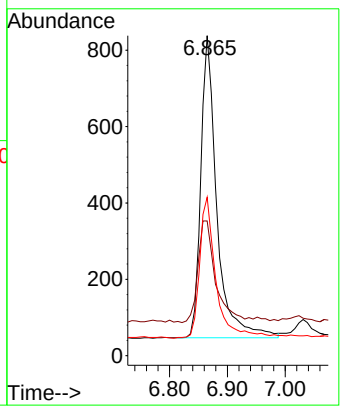


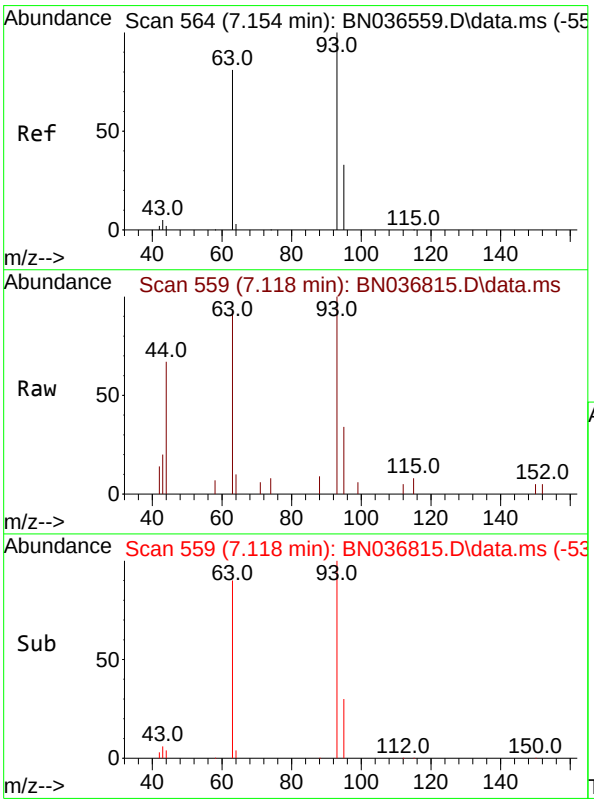
#5
Phenol-d6
Concen: 0.339 ng
RT: 6.865 min Scan# 5
Delta R.T. -0.036 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 99 Resp: 1525

Ion	Ratio	Lower	Upper
99	100		
42	37.5	26.5	39.7
71	48.4	34.1	51.1

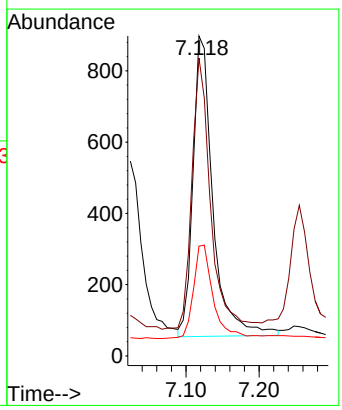


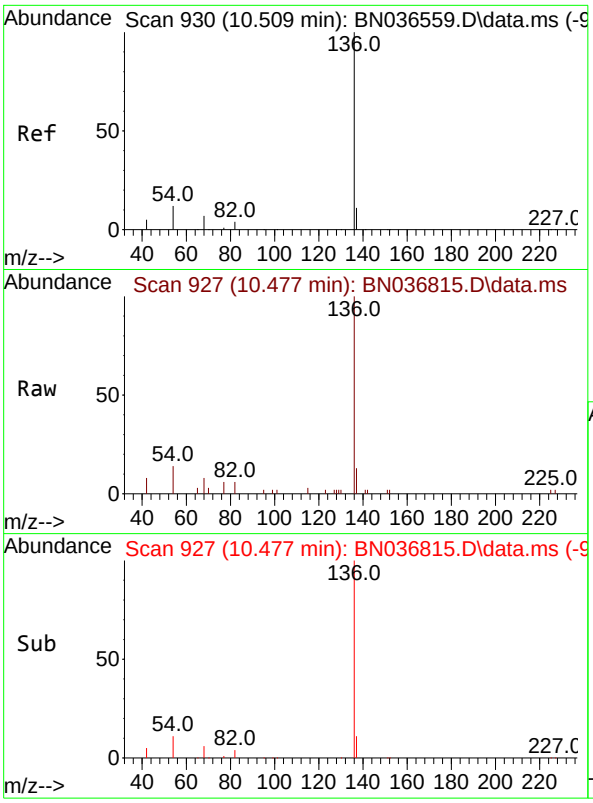


#6
bis(2-Chloroethyl)ether
Concen: 0.343 ng
RT: 7.118 min Scan# 559
Delta R.T. -0.036 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion: 93 Resp: 1597

Ion	Ratio	Lower	Upper
93	100		
63	82.9	67.7	101.5
95	30.6	25.6	38.4



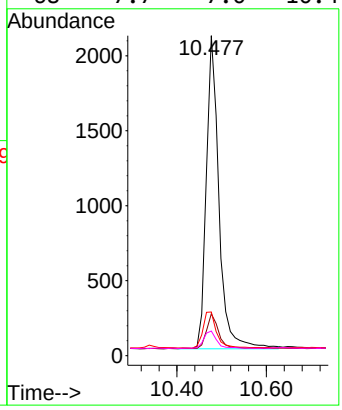


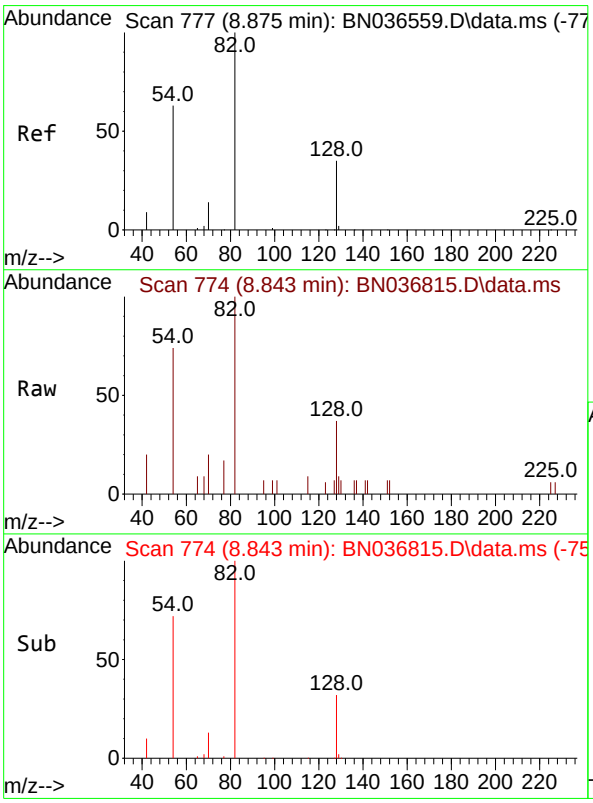
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.477 min Scan# 9
Delta R.T. -0.032 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:136 Resp: 4089

Ion	Ratio	Lower	Upper
136	100		
137	13.1	10.3	15.5
54	13.6	11.5	17.3
68	7.7	7.0	10.4

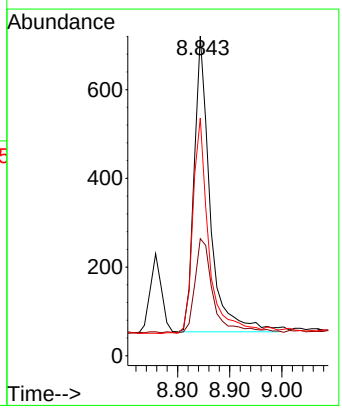


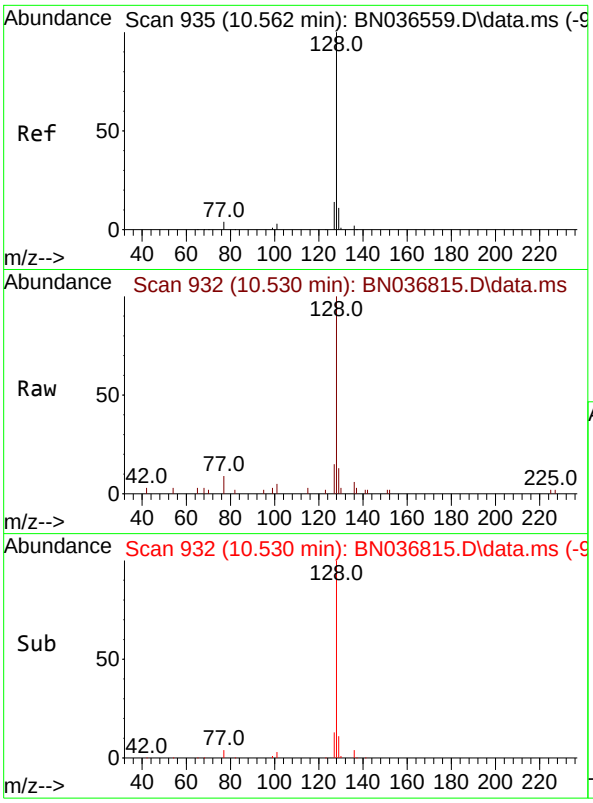


#8
Nitrobenzene-d5
Concen: 0.320 ng
RT: 8.843 min Scan# 774
Delta R.T. -0.032 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion: 82 Resp: 1424

Ion	Ratio	Lower	Upper
82	100		
128	36.6	30.6	45.8
54	74.3	52.2	78.4



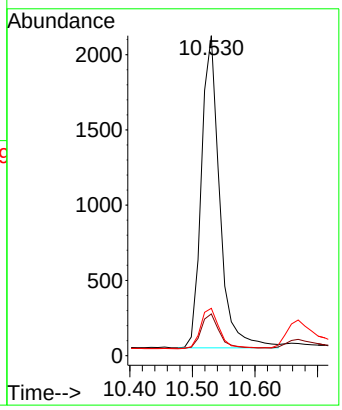


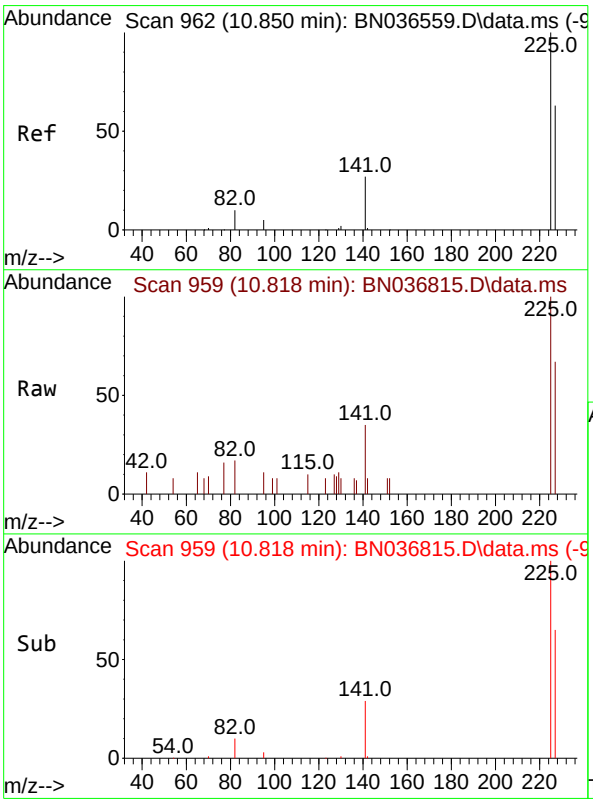
#9
Naphthalene
Concen: 0.350 ng
RT: 10.530 min Scan# 9
Delta R.T. -0.032 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:128 Resp: 4210

Ion	Ratio	Lower	Upper
128	100		
129	13.0	9.8	14.6
127	14.8	11.8	17.8

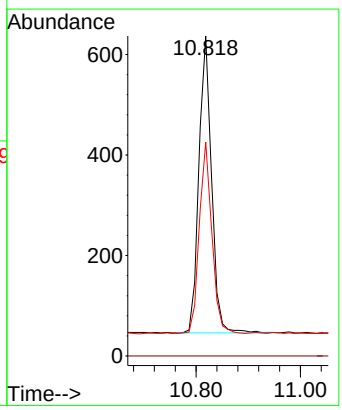


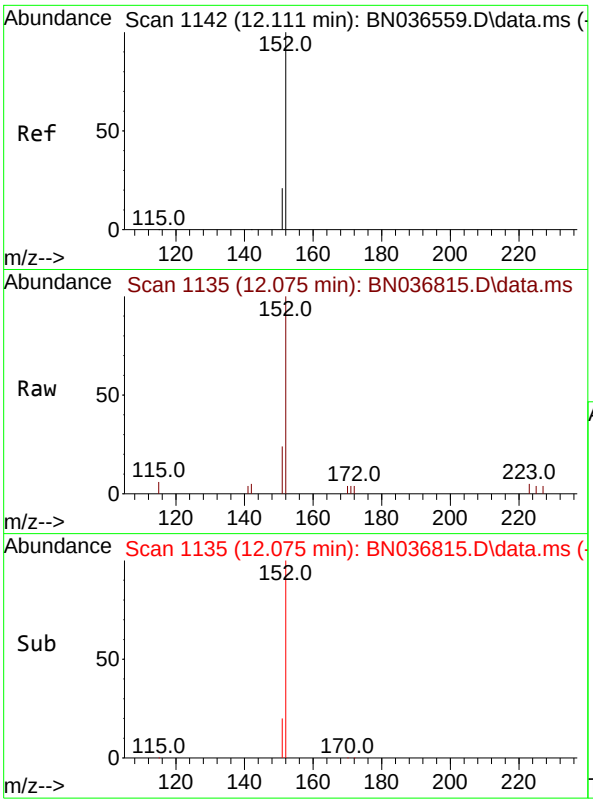


#10
Hexachlorobutadiene
Concen: 0.352 ng
RT: 10.818 min Scan# 959
Delta R.T. -0.032 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:225 Resp: 998

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.0	51.8	77.8



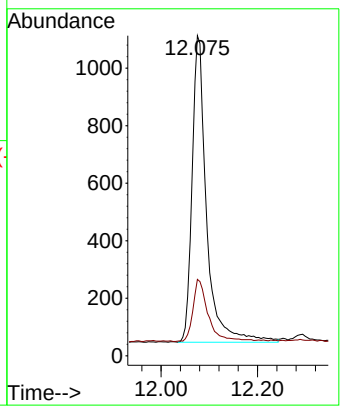


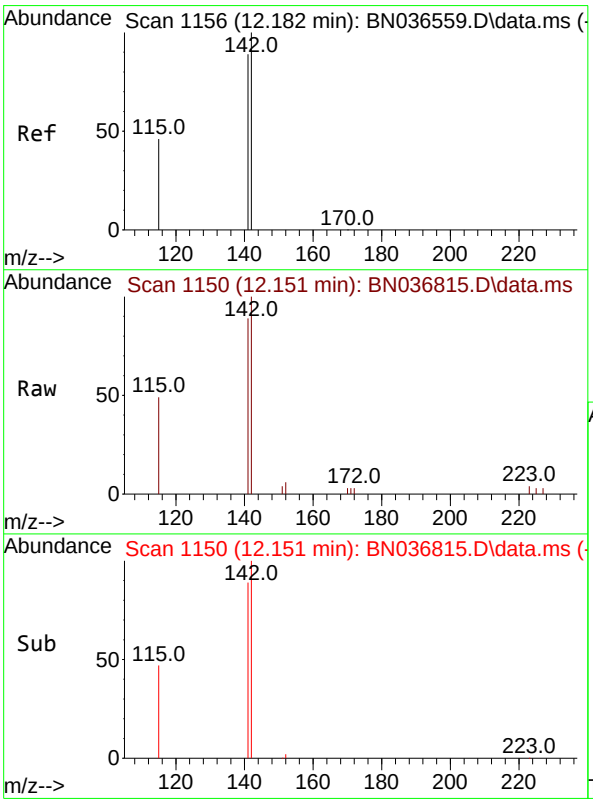
#11
2-Methylnaphthalene-d10
Concen: 0.365 ng
RT: 12.075 min Scan# 11
Delta R.T. -0.035 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 2219

Ion	Ratio	Lower	Upper
152	100		
151	21.2	17.0	25.6

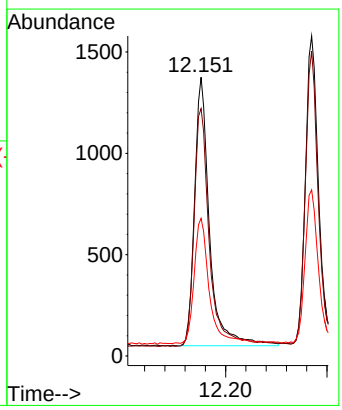


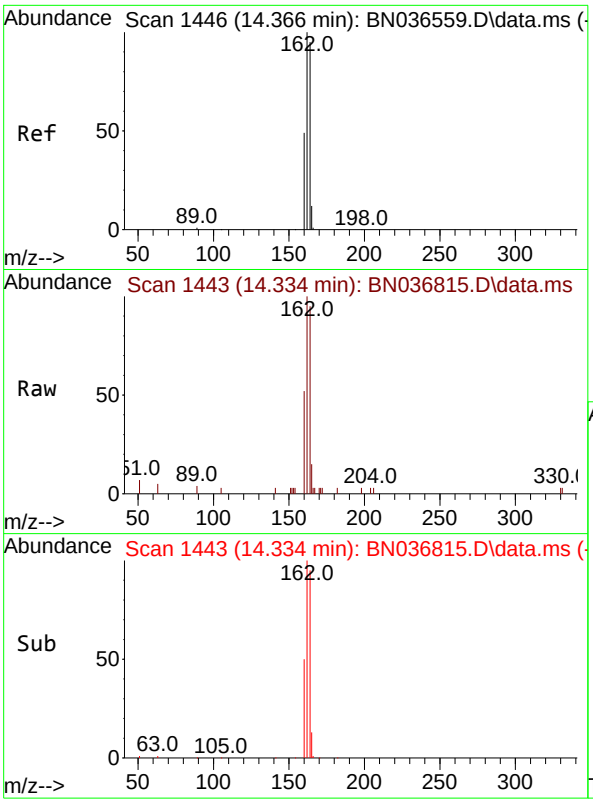


#12
2-Methylnaphthalene
Concen: 0.356 ng
RT: 12.151 min Scan# 1150
Delta R.T. -0.030 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:142 Resp: 2722

Ion	Ratio	Lower	Upper
142	100		
141	88.8	71.7	107.5
115	49.4	38.3	57.5



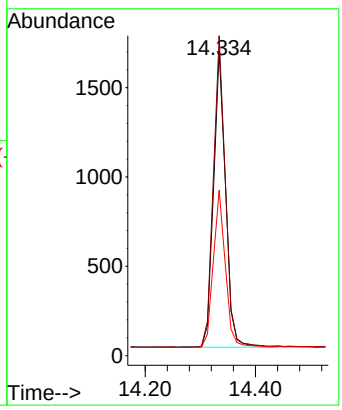


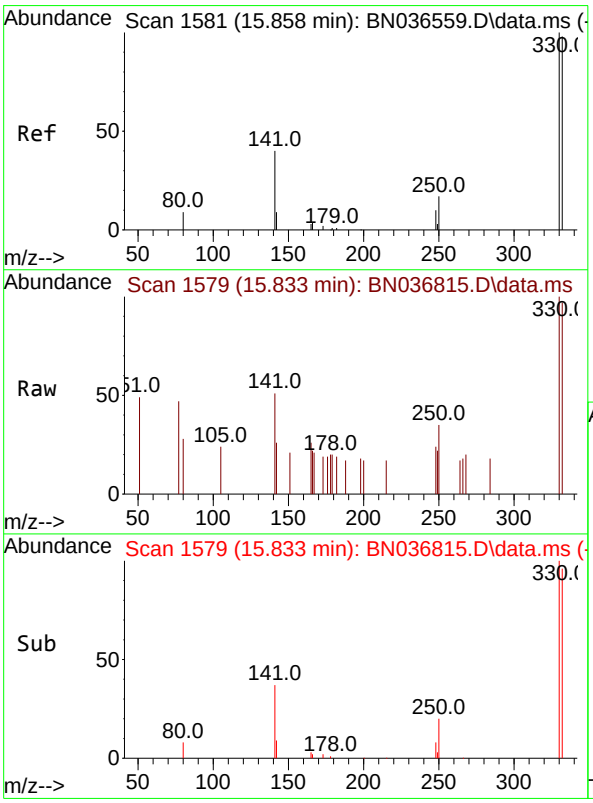
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:164 Resp: 2524

Ion	Ratio	Lower	Upper
164	100		
162	104.9	84.2	126.2
160	54.2	42.2	63.2

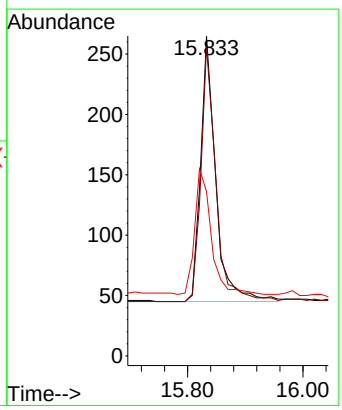


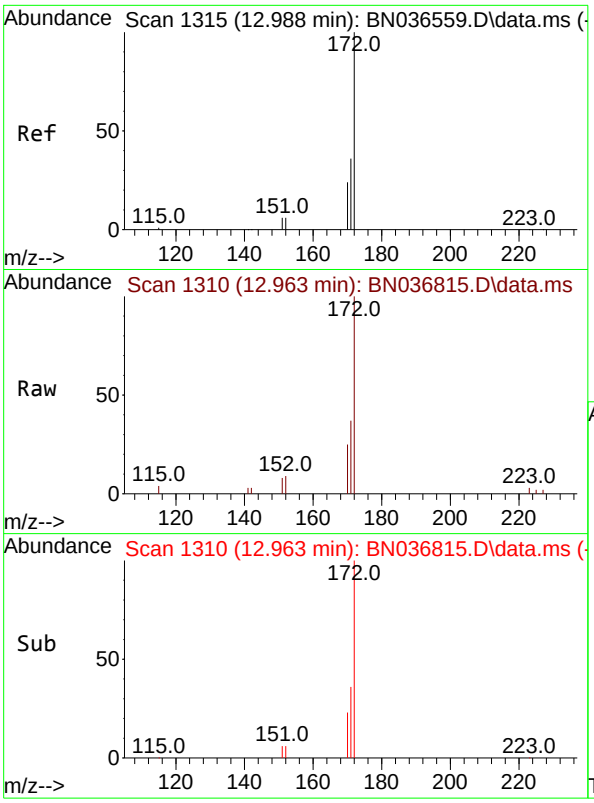


#14
2,4,6-Tribromophenol
Concen: 0.351 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.025 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:330 Resp: 402

Ion	Ratio	Lower	Upper
330	100		
332	94.8	75.2	112.8
141	51.0	43.4	65.2



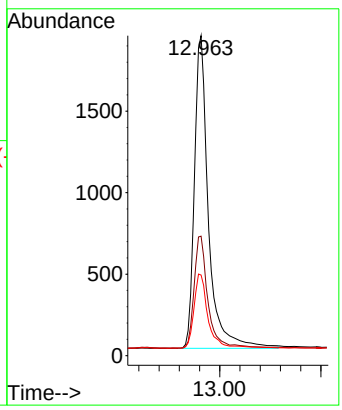


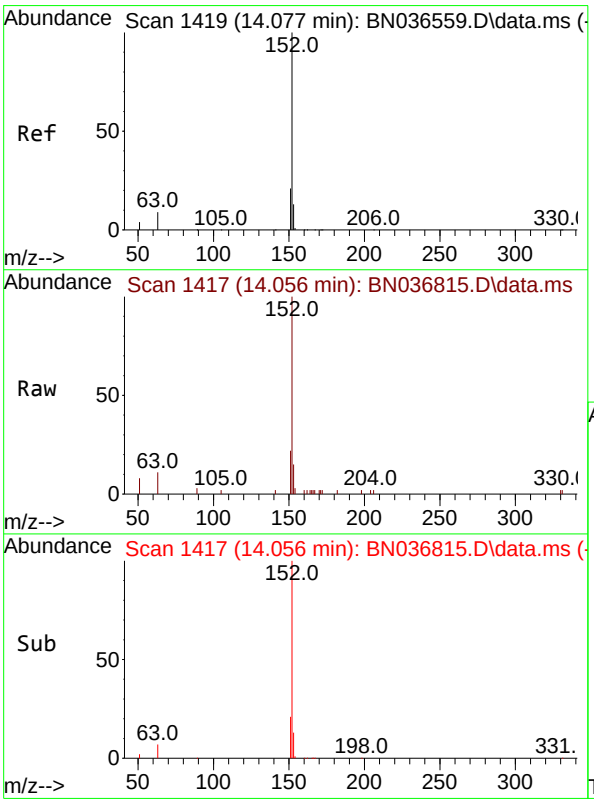
#15
2-Fluorobiphenyl
Concen: 0.336 ng
RT: 12.963 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:172 Resp: 4939

Ion	Ratio	Lower	Upper
172	100		
171	37.3	29.5	44.3
170	25.2	20.2	30.4

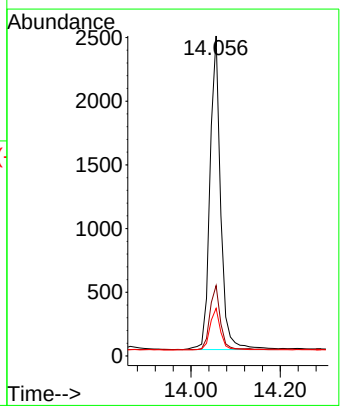


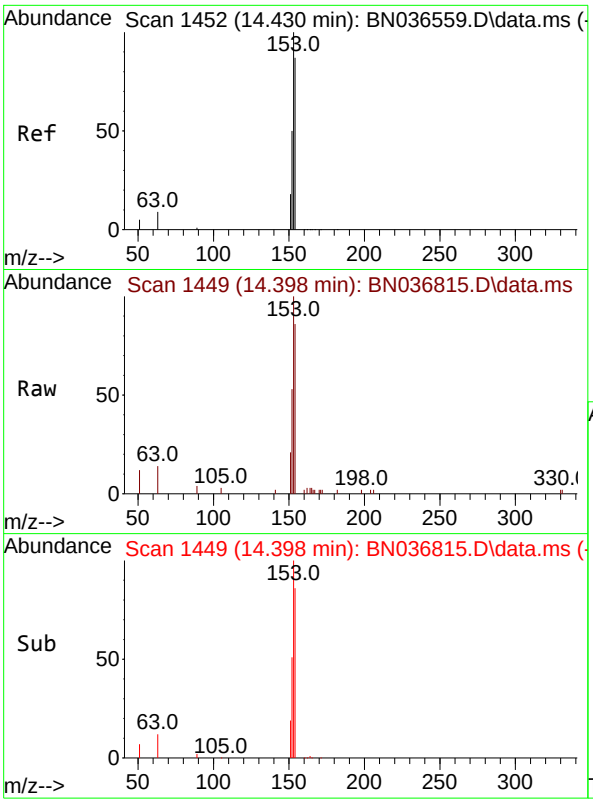


#16
Acenaphthylene
Concen: 0.340 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.021 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:152 Resp: 4054

Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.2	24.4
153	13.5	10.6	15.8



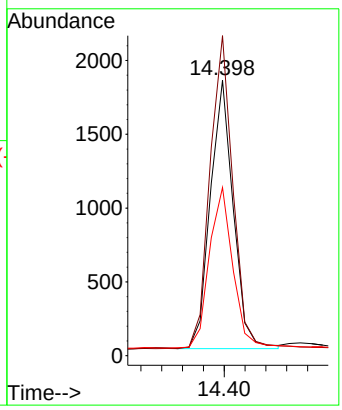


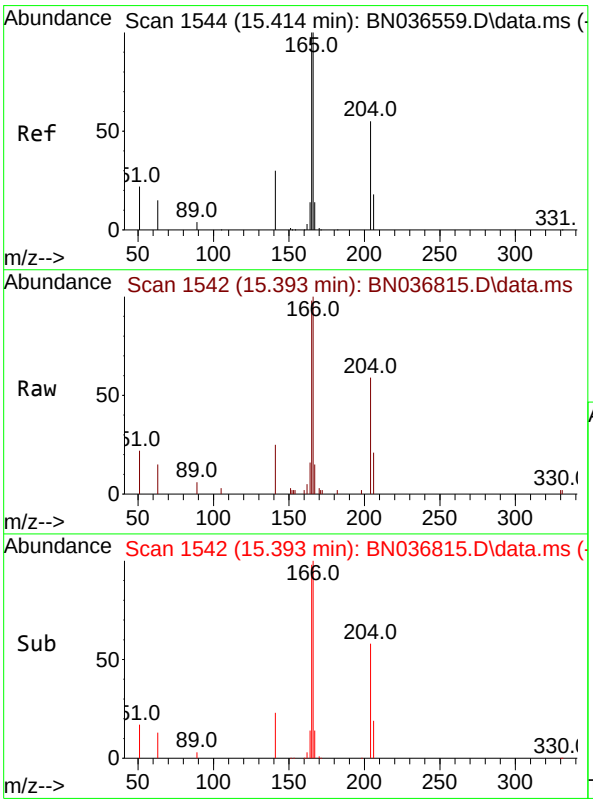
#17
Acenaphthene
Concen: 0.356 ng
RT: 14.398 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:154 Resp: 2777

Ion	Ratio	Lower	Upper
154	100		
153	118.7	94.1	141.1
152	62.5	49.8	74.6

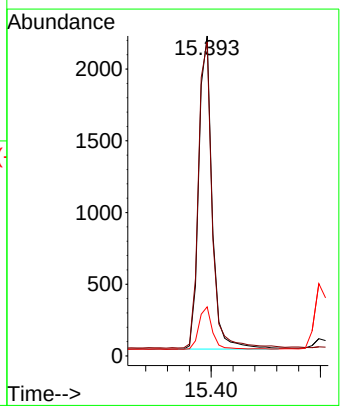


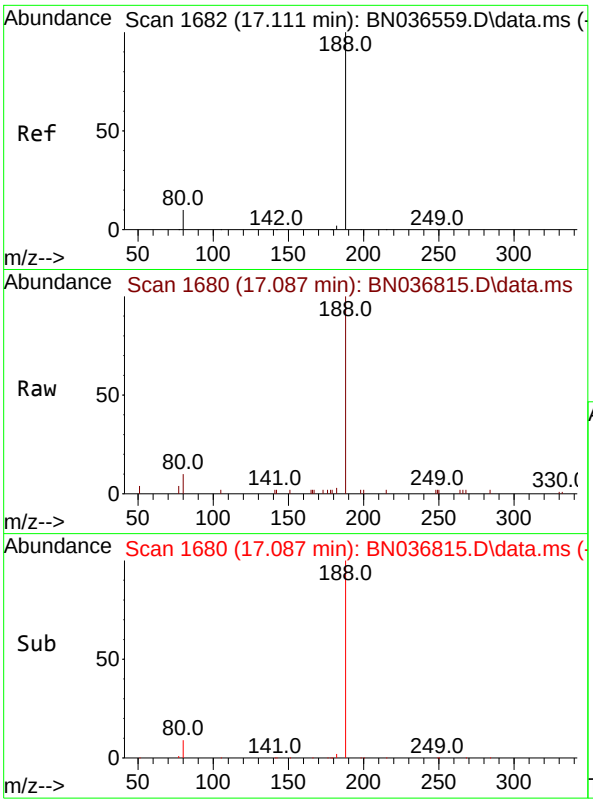


#18
Fluorene
Concen: 0.354 ng
RT: 15.393 min Scan# 1542
Delta R.T. -0.021 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:166 Resp: 3732

Ion	Ratio	Lower	Upper
166	100		
165	100.8	79.8	119.8
167	13.4	10.6	15.8



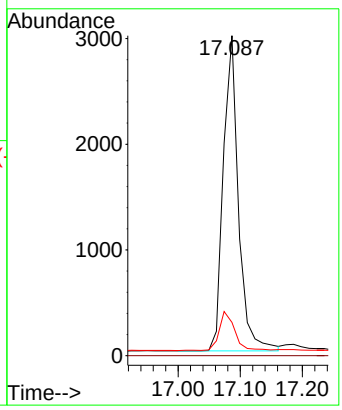


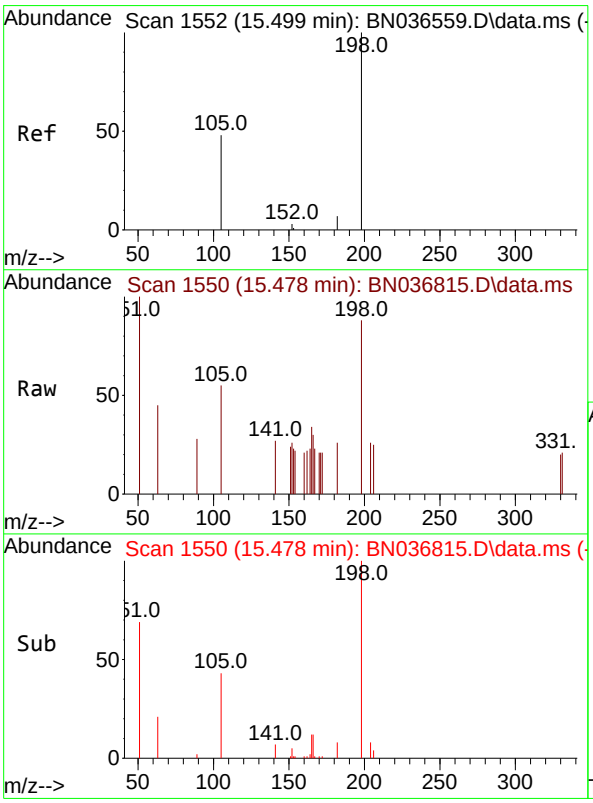
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.087 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:188 Resp: 5032

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.4	8.8	13.2

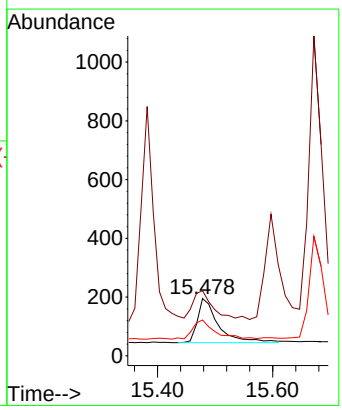


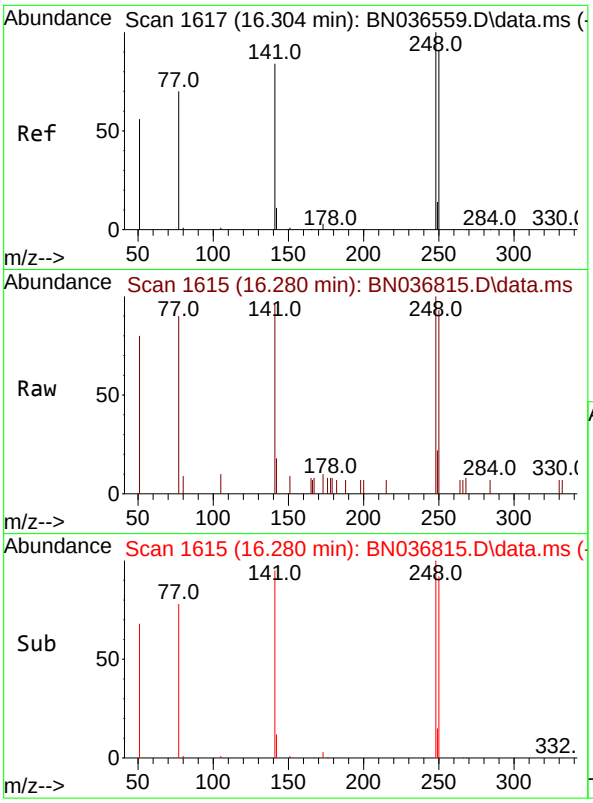


#20
4,6-Dinitro-2-methylphenol
Concen: 0.454 ng
RT: 15.478 min Scan# 1550
Delta R.T. -0.021 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:198 Resp: 396

Ion	Ratio	Lower	Upper
198	100		
51	113.8	107.9	161.9
105	62.6	56.2	84.2



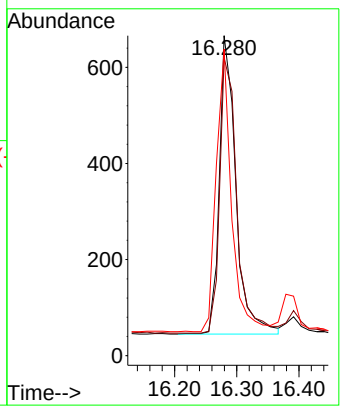


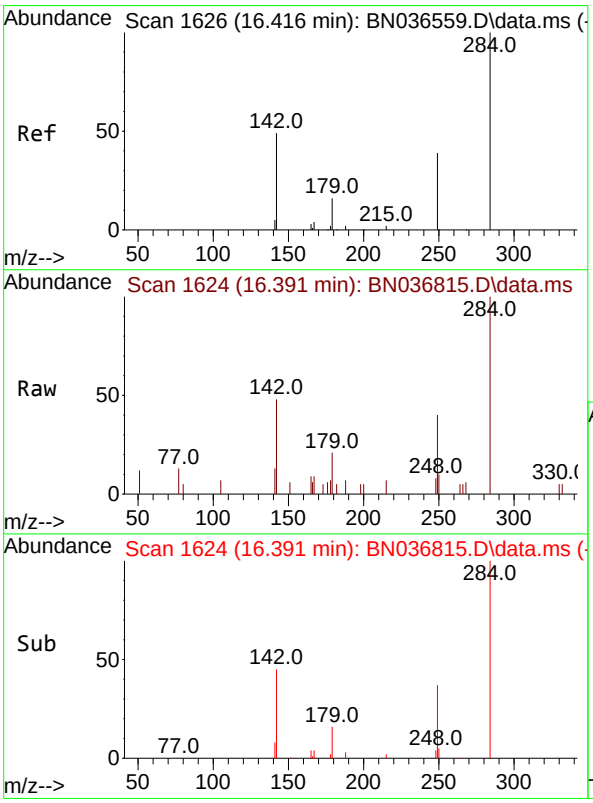
#21
4-Bromophenyl-phenylether
Concen: 0.363 ng
RT: 16.280 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:248 Resp: 1144

Ion	Ratio	Lower	Upper
248	100		
250	93.1	73.0	109.6
141	95.8	68.6	103.0

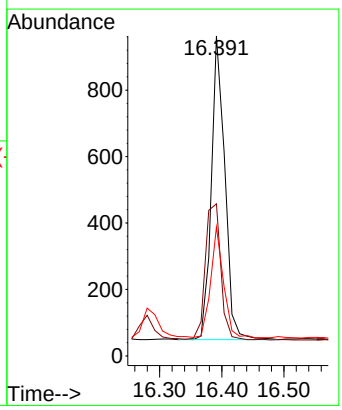


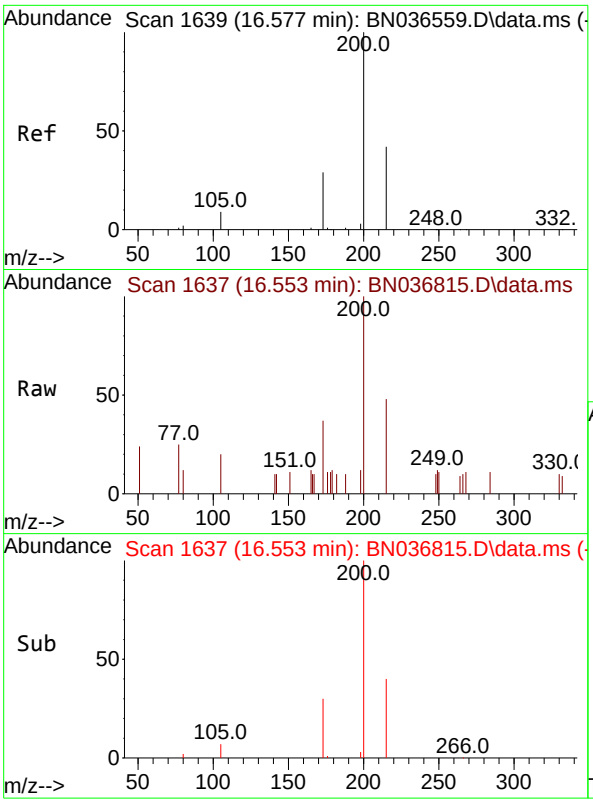


#22
Hexachlorobenzene
Concen: 0.363 ng
RT: 16.391 min Scan# 1624
Delta R.T. -0.025 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:284 Resp: 1380

Ion	Ratio	Lower	Upper
284	100		
142	51.9	37.0	55.4
249	34.7	28.1	42.1



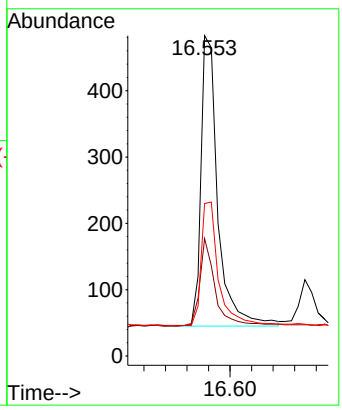


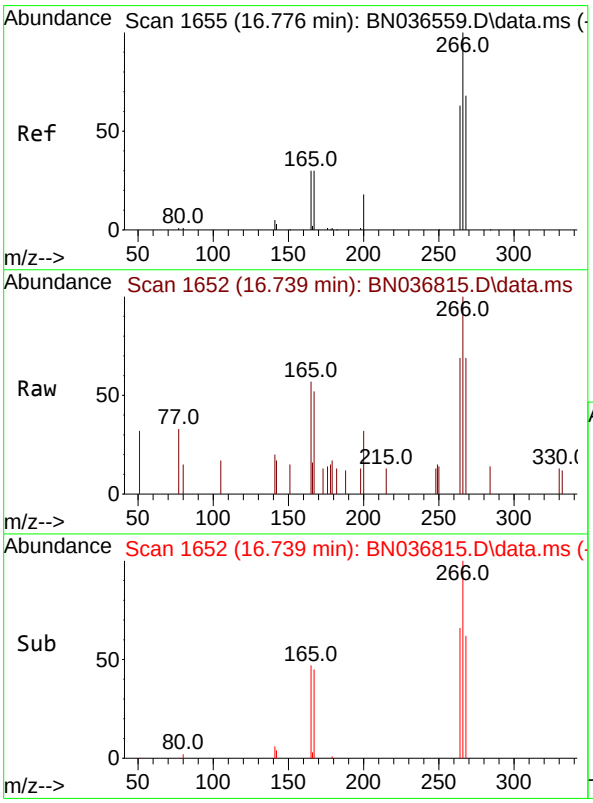
#23
Atrazine
Concen: 0.377 ng
RT: 16.553 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:200 Resp: 954

Ion	Ratio	Lower	Upper
200	100		
173	36.6	27.3	40.9
215	47.6	36.8	55.2

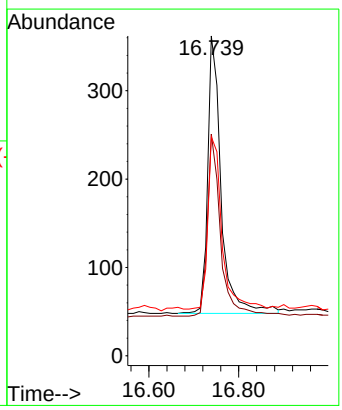


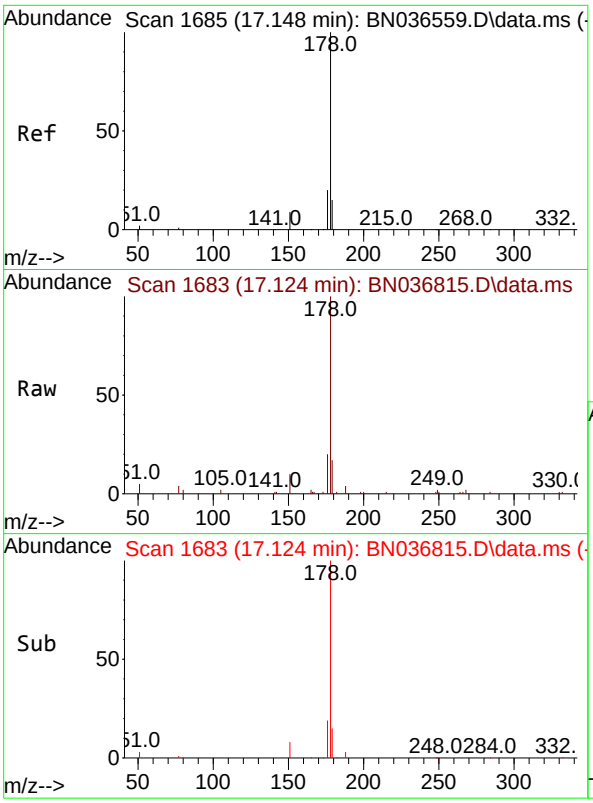


#24
Pentachlorophenol
Concen: 0.375 ng
RT: 16.739 min Scan# 1652
Delta R.T. -0.037 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:266 Resp: 651

Ion	Ratio	Lower	Upper
266	100		
264	64.8	49.6	74.4
268	65.4	50.9	76.3



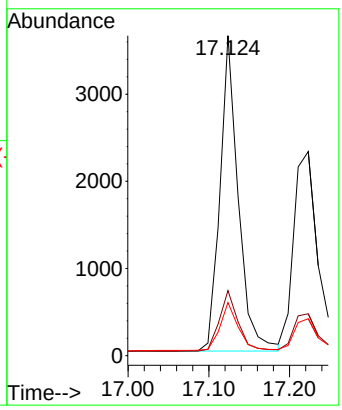


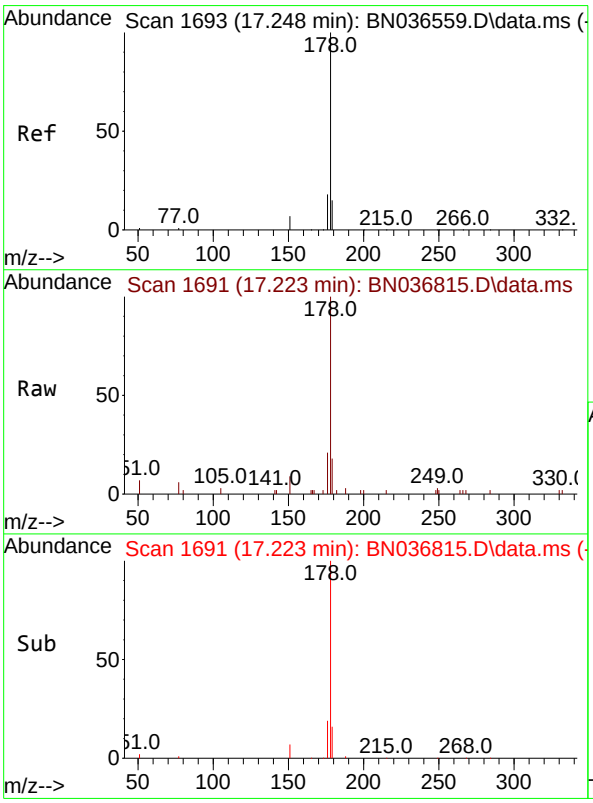
#25
Phenanthrene
Concen: 0.378 ng
RT: 17.124 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:178 Resp: 5703

Ion	Ratio	Lower	Upper
178	100		
176	19.9	15.9	23.9
179	15.7	12.2	18.4

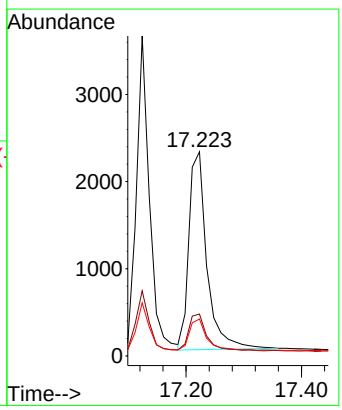


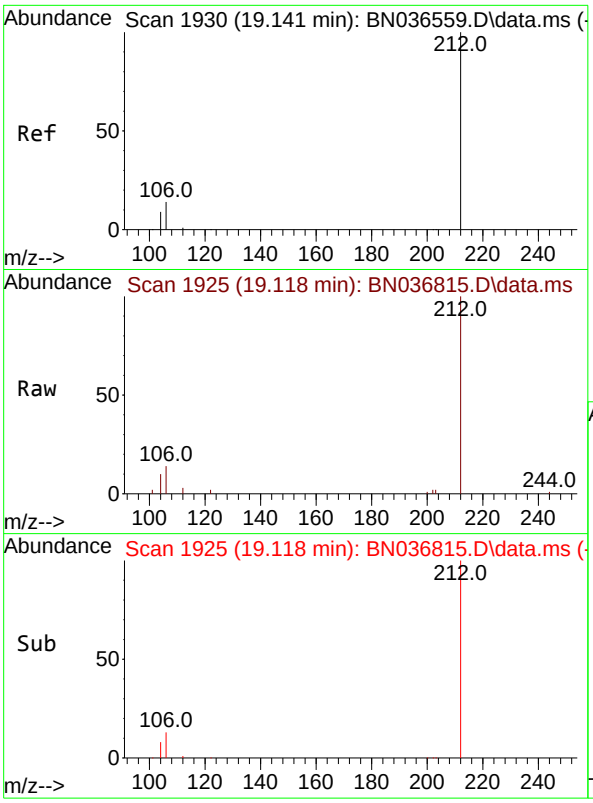


#26
Anthracene
Concen: 0.362 ng
RT: 17.223 min Scan# 1691
Delta R.T. -0.025 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:178 Resp: 4933

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.4	23.2
179	15.6	12.6	18.8



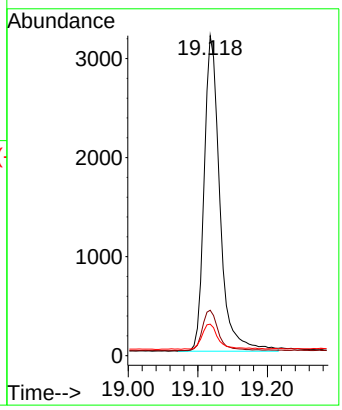


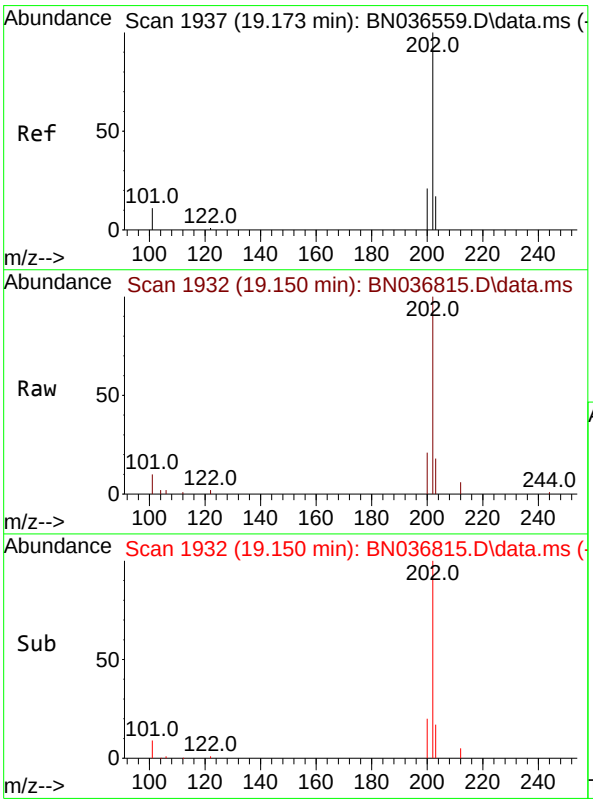
#27
Fluoranthene-d10
Concen: 0.388 ng
RT: 19.118 min Scan# 1
Delta R.T. -0.023 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:212 Resp: 5000

Ion	Ratio	Lower	Upper
212	100		
106	13.2	11.8	17.6
104	8.4	7.3	10.9

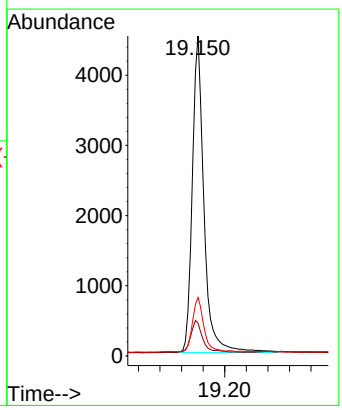


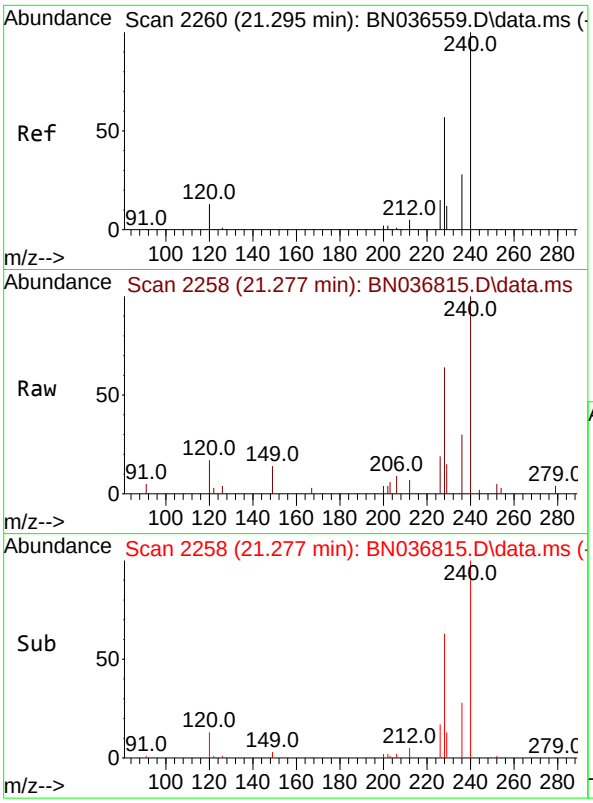


#28
Fluoranthene
Concen: 0.399 ng
RT: 19.150 min Scan# 1932
Delta R.T. -0.023 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:202 Resp: 6761

Ion	Ratio	Lower	Upper
202	100		
101	10.4	9.4	14.0
203	16.5	13.5	20.3



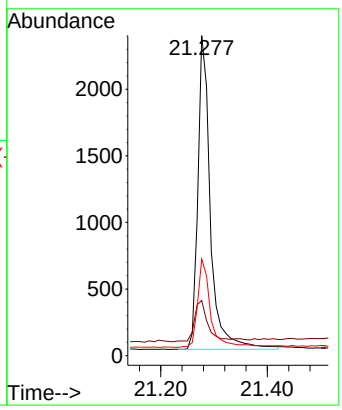


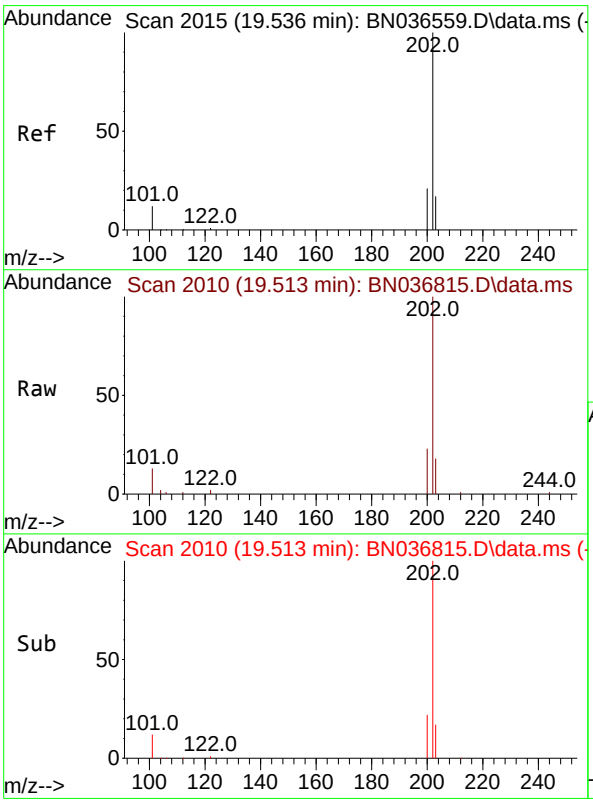
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:240 Resp: 3863

Ion	Ratio	Lower	Upper
240	100		
120	17.3	14.6	22.0
236	30.2	24.1	36.1

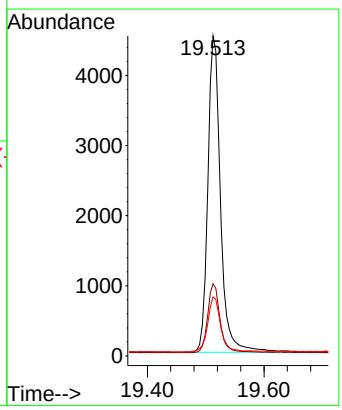


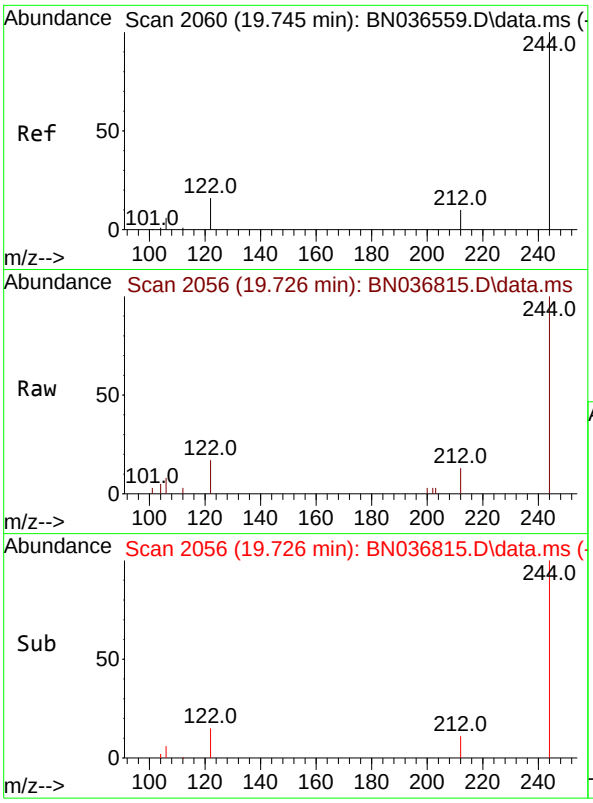


#30
Pyrene
Concen: 0.361 ng
RT: 19.513 min Scan# 2010
Delta R.T. -0.023 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:202 Resp: 6826

Ion	Ratio	Lower	Upper
202	100		
200	21.6	17.1	25.7
203	17.8	14.1	21.1



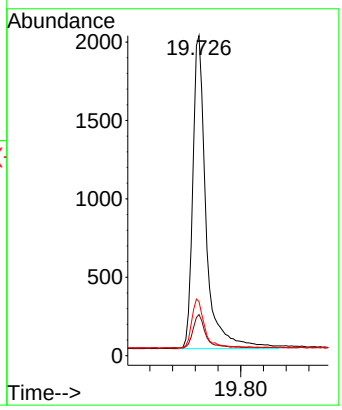


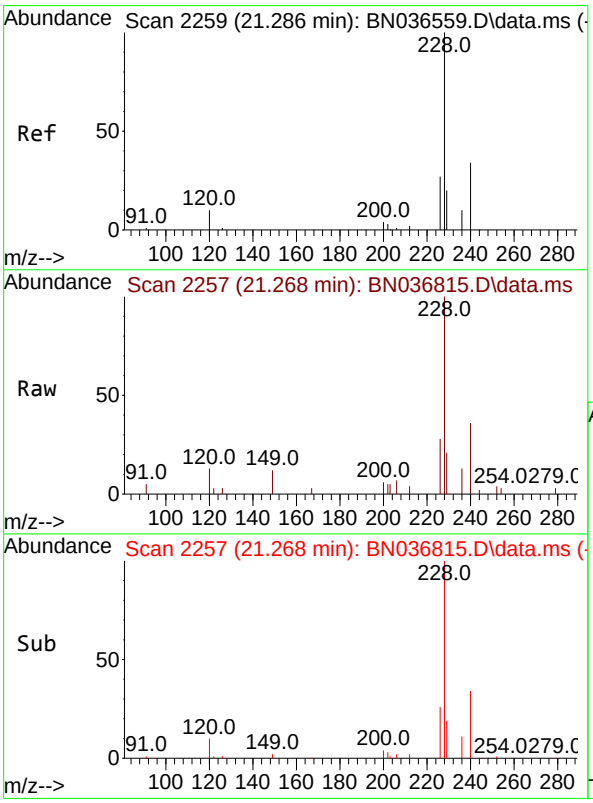
#31
Terphenyl-d14
Concen: 0.352 ng
RT: 19.726 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:244 Resp: 3254

Ion	Ratio	Lower	Upper
244	100		
212	12.9	9.6	14.4
122	16.9	13.9	20.9

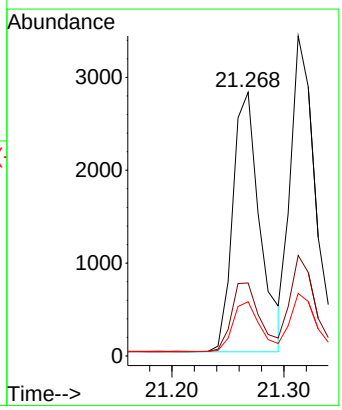


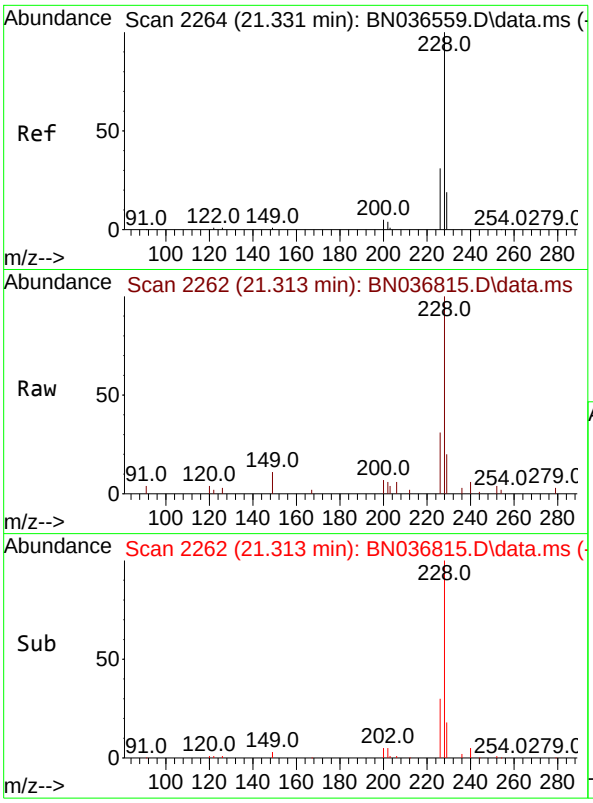


#32
Benzo(a)anthracene
Concen: 0.351 ng
RT: 21.268 min Scan# 2257
Delta R.T. -0.018 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:228 Resp: 4715

Ion	Ratio	Lower	Upper
228	100		
226	27.7	22.5	33.7
229	20.6	16.6	25.0



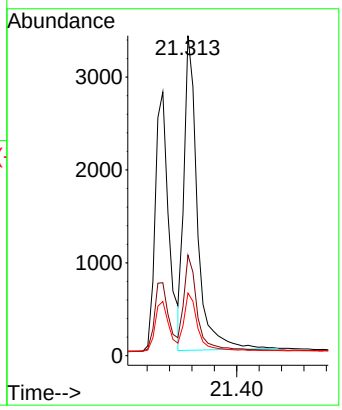


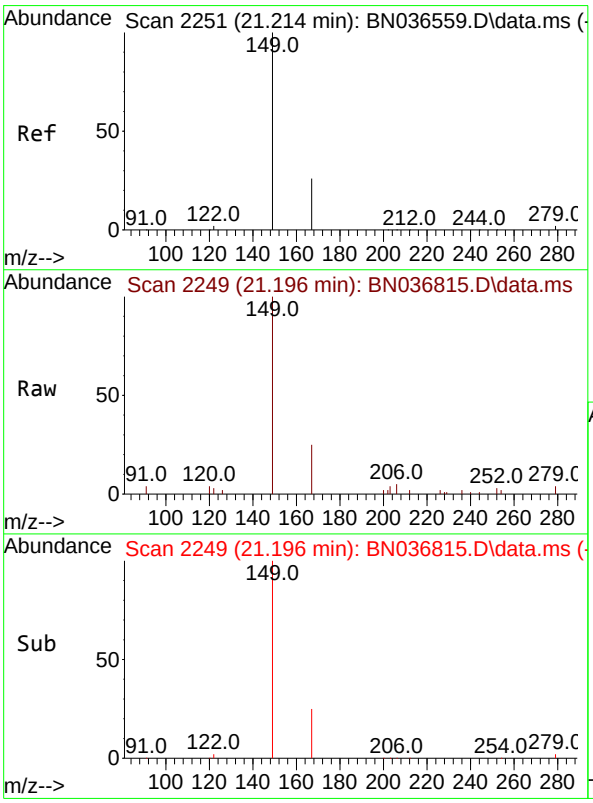
#33
Chrysene
Concen: 0.385 ng
RT: 21.313 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:228 Resp: 5650

Ion	Ratio	Lower	Upper
228	100		
226	31.4	25.3	37.9
229	19.6	15.8	23.8

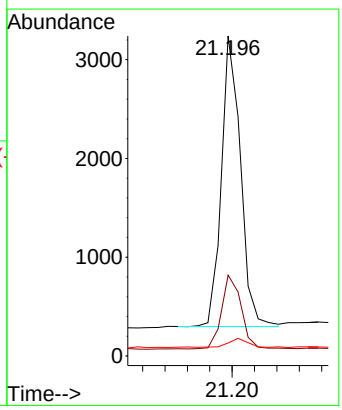


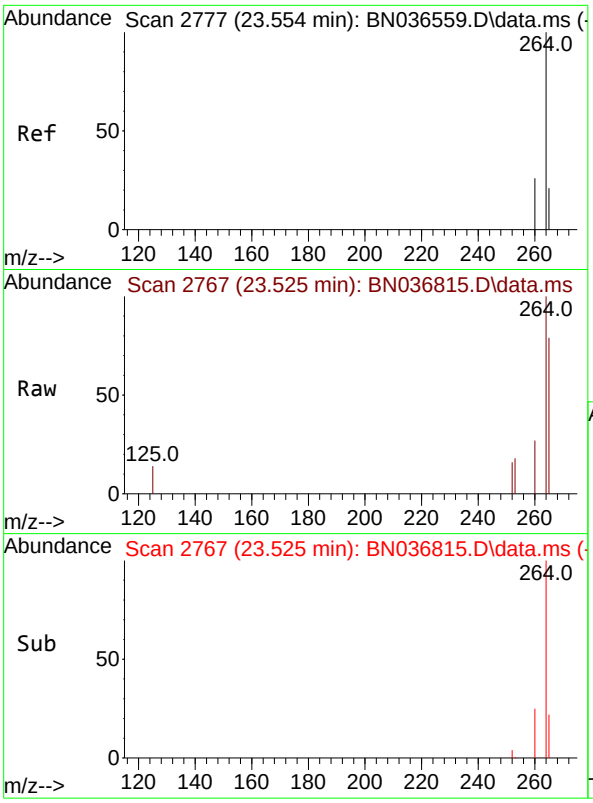


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.364 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:149 Resp: 3477

Ion	Ratio	Lower	Upper
149	100		
167	26.4	20.7	31.1
279	3.1	3.6	5.4#



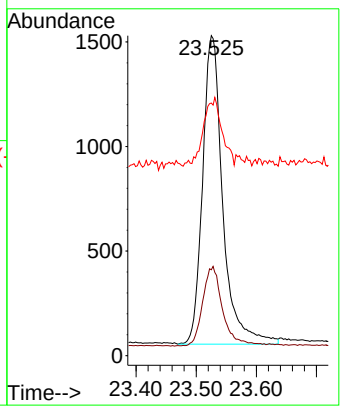


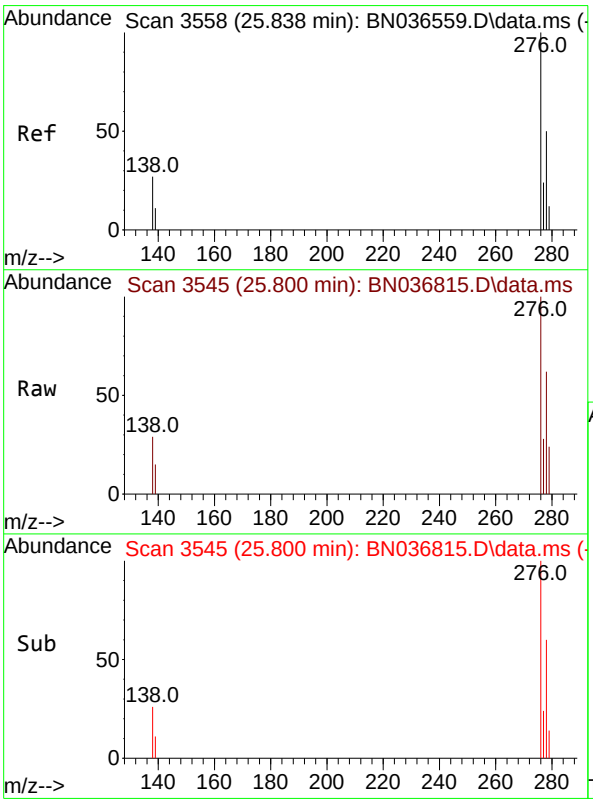
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.525 min Scan# 2
Delta R.T. -0.029 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:264 Resp: 3435

Ion	Ratio	Lower	Upper
264	100		
260	26.9	22.6	33.8
265	79.0	88.1	132.1#

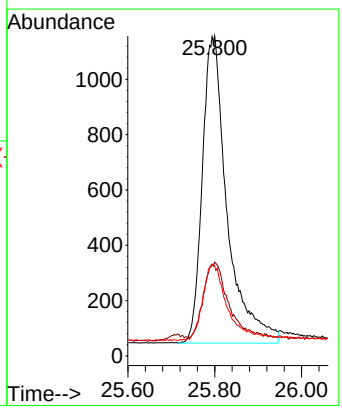


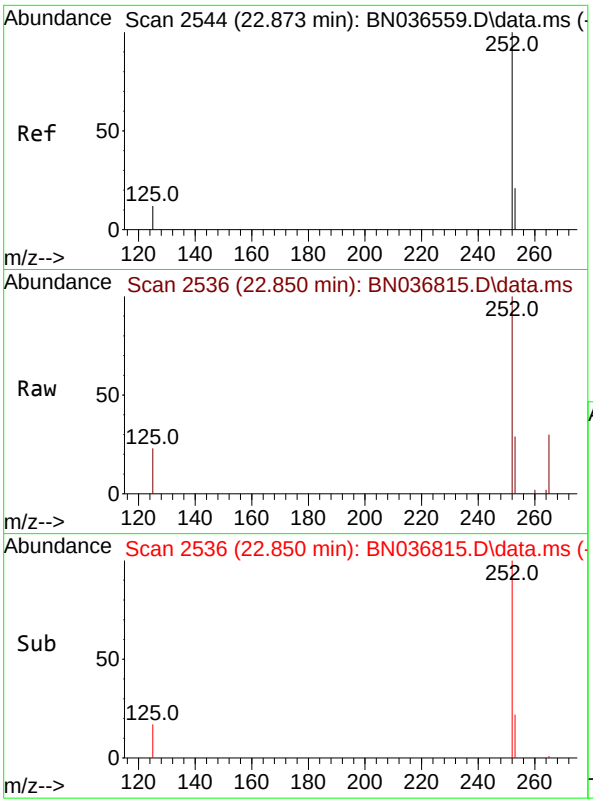


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.357 ng
RT: 25.800 min Scan# 3545
Delta R.T. -0.038 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:276 Resp: 4428

Ion	Ratio	Lower	Upper
276	100		
138	24.1	23.4	35.2
277	23.9	20.0	30.0



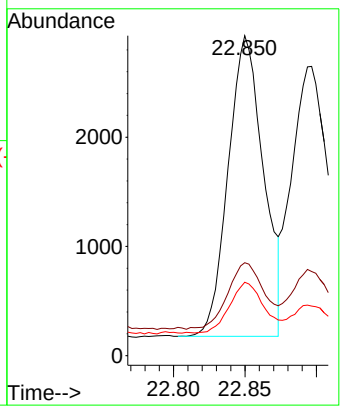


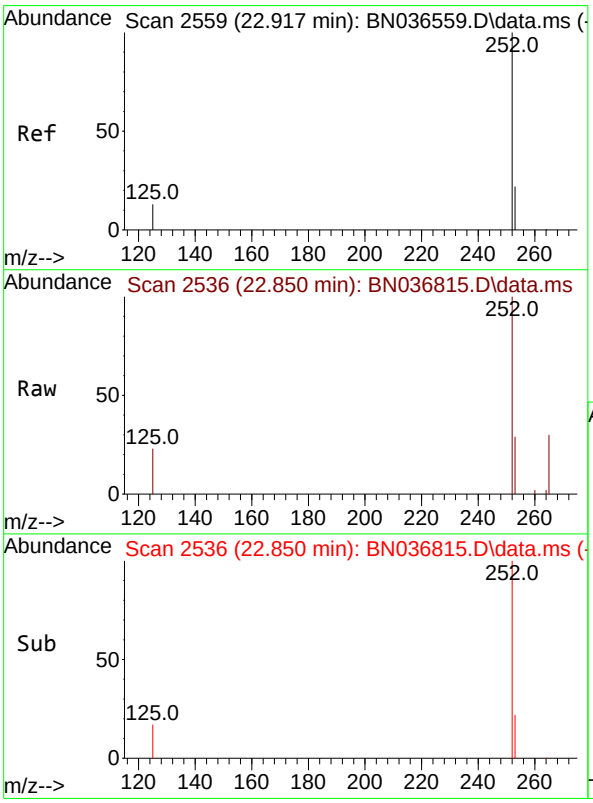
#37
Benzo(b)fluoranthene
Concen: 0.379 ng
RT: 22.850 min Scan# 2
Delta R.T. -0.023 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:252 Resp: 4732

Ion	Ratio	Lower	Upper
252	100		
253	29.0	23.9	35.9
125	22.9	17.4	26.2

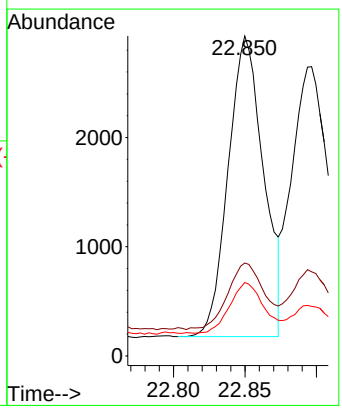


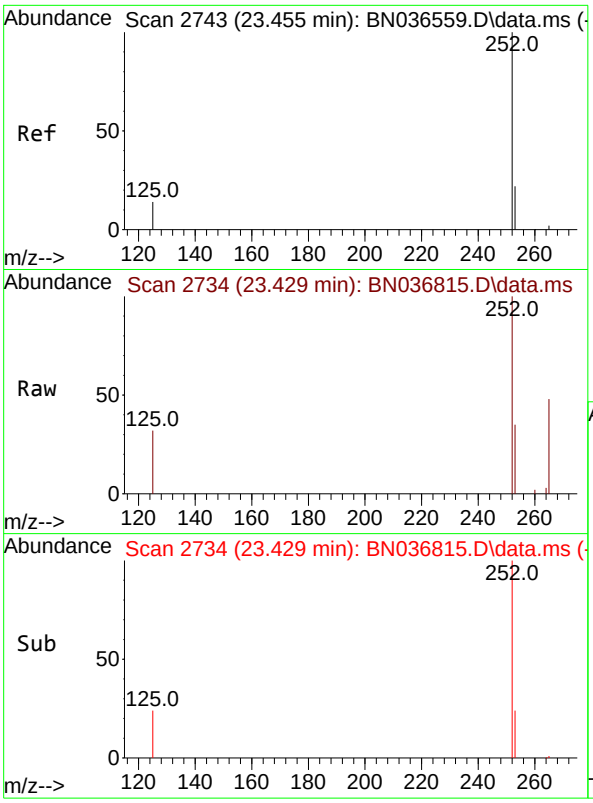


#38
Benzo(k)fluoranthene
Concen: 0.361 ng
RT: 22.850 min Scan# 2536
Delta R.T. -0.067 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:252 Resp: 4732

Ion	Ratio	Lower	Upper
252	100		
253	29.0	24.6	36.8
125	22.9	17.8	26.8



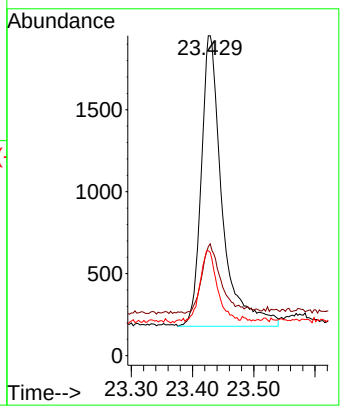


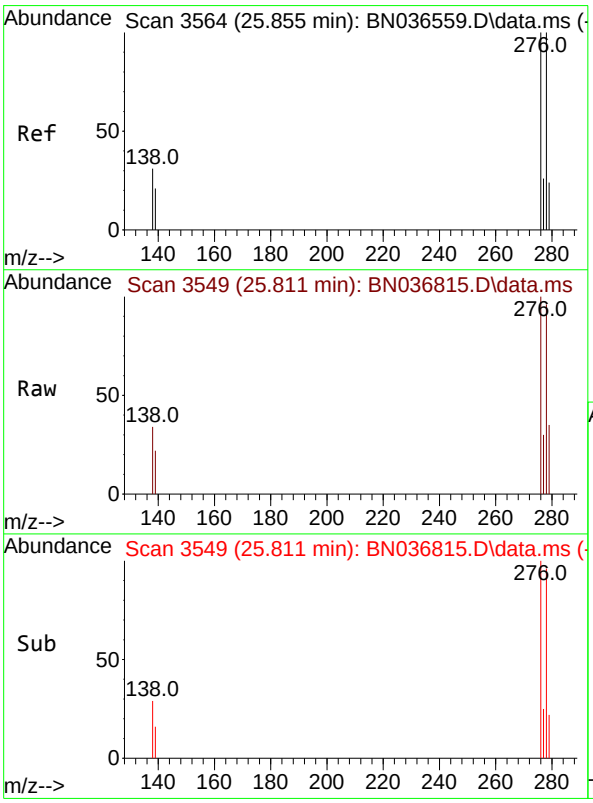
#39
Benzo(a)pyrene
Concen: 0.399 ng
RT: 23.429 min Scan# 2
Delta R.T. -0.026 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:252 Resp: 4200

Ion	Ratio	Lower	Upper
252	100		
253	34.9	27.8	41.8
125	32.3	22.7	34.1

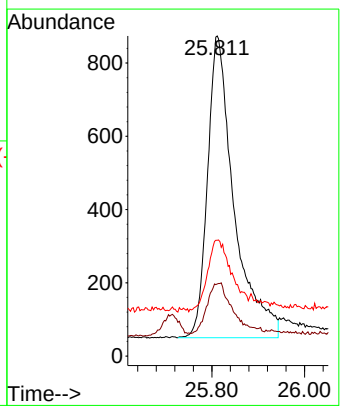


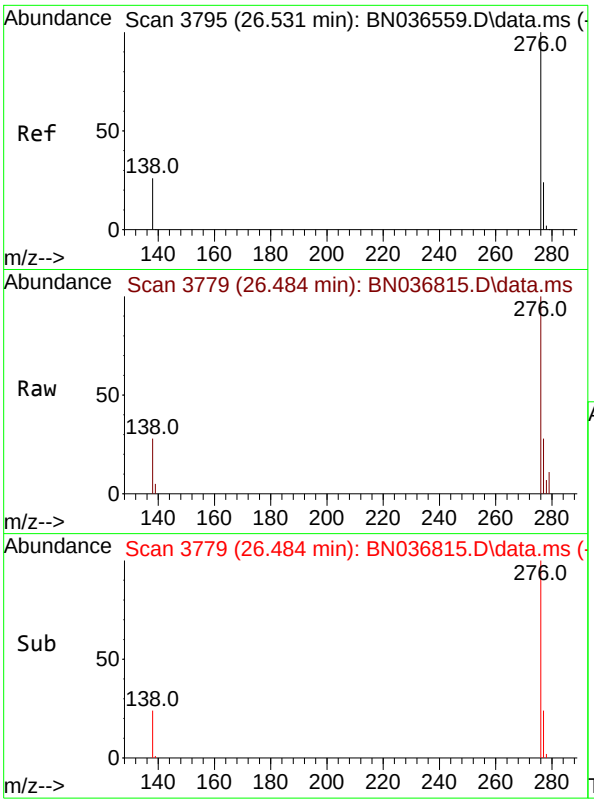


#40
Dibenzo(a,h)anthracene
Concen: 0.340 ng
RT: 25.811 min Scan# 3549
Delta R.T. -0.044 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:278 Resp: 3277

Ion	Ratio	Lower	Upper
278	100		
139	22.5	20.8	31.2
279	36.2	28.8	43.2





#41
Benzo(g,h,i)perylene
Concen: 0.363 ng
RT: 26.484 min Scan# 3
Delta R.T. -0.047 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:276 Resp: 4006

Ion	Ratio	Lower	Upper
276	100		
277	27.7	22.2	33.4
138	27.6	24.1	36.1