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

DATA PACKAGE

SEMI-VOLATILE ORGANICS

PROJECT NAME : NJ WASTE WATER PT

ALLIANCE TECHNICAL GROUP, LLC - NEWARK

284 Sheffiled Stree

Suite 1

Mountainside, NJ - 07092

Phone No: 908-789-8900

ORDER ID : Q1870

ATTENTION : Mohammad Ahmed

Laboratory Certification ID # 20012

Table Of Contents for Q1870

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Cover Page

Order ID : Q1870

Project ID : NJ Waste Water PT

Client : Alliance Technical Group, LLC - Newark

Lab Sample Number	Client Sample Number
Q1870-01	38072-010925
Q1870-03	38073-100124

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

Signature : _____

Date: 5/6/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

Alliance Technical Group, LLC - Newark
Project Name: NJ Waste Water PT
Project # N/A
Chemtech Project # Q1870
Test Name: SVOCMS Group5

A. Number of Samples and Date of Receipt:
1 Water sample was received on 04/23/2025.
1 Water sample was received on 04/24/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: SVOCMS Group2 and SVOCMS Group5. This data package contains results for SVOCMS Group5.

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 SVOCMS Group5 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,
38072-010925DL2 [2-Fluorobiphenyl - 0%,2-Methylnaphthalene-d10 - 0%, Fluoranthene-d10 - 0%, Nitrobenzene-d5 - 0%, Terphenyl-d14 - 0%],
The DMC recovery does not apply for those samples which have been diluted, Therefore no further corrective action was taken.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The Blank Spike met requirements for all samples.

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

Samples 38072-010925, 38072-010925DL were diluted due to high concentrations.

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E. Additional Comments:

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

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

F. Manual Integration Comments:

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

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

Signature_____

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DATA REPORTING QUALIFIERS- ORGANIC

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

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

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

CHEMTECH PROJECT NUMBER: Q1870 MATRIX: Water

METHOD: 8270-Modified/3510

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2.	GC/MS Tuning Specifications. DFTPP Meet Criteria. (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4.	GC/MS Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5.	GC/MS Calibration Requirements.			✓
	The Initial Calibration met the requirements. The Continuous Calibration met the requirements.			
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
7.	Surrogate Recoveries Meet Criteria		✓	
	If not met, list those compounds and their recoveries which fall outside the acceptable ranges.			
	The Surrogate recoveries met the acceptable criteria except for, 38072-010925DL2 [2-Fluorobiphenyl - 0%,2-Methylnaphthalene-d10 - 0%, Fluoranthene-d10 - 0%, Nitrobenzene-d5 - 0%, Terphenyl-d14 - 0%], The DMC recovery does not apply for those samples which have been diluted, Therefore no further 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.			
9.	Internal Standard Area/Retention Time Shift Meet Criteria			✓
	Comments:			
10.	Extraction Holding Time Met			✓
	If not met, list number of days exceeded for each sample:			
11.	Analysis Holding Time Met			✓
	If not met, list number of days exceeded for each sample:			

ADDITIONAL COMMENTS:

Samples 38072-010925, 38072-010925DL were diluted due to high concentrations.

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

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 #: Q1870

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

QA Review Signature: SOHIL JODHANI **Date:** 05/06/2025

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LAB CHRONICLE

OrderID:	Q1870	**OrderDate:**	4/24/2025 11:31:00 AM
Client:	Alliance Technical Group, LLC - Newark	**Project:**	NJ Waste Water PT
Contact:	Mohammad Ahmed	**Location:**	QA Office

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1870-01	**38072-010925**	**Water**			**04/21/25**			**04/23/25**
			SVOCMS Group5	8270-Modified		04/24/25	04/29/25	
Q1870-01DL	**38072-010925DL**	**Water**			**04/21/25**			**04/23/25**
			SVOCMS Group5	8270-Modified		04/24/25	04/29/25	
Q1870-01DL2	**38072-010925DL2**	**Water**			**04/21/25**			**04/23/25**
			SVOCMS Group5	8270-Modified		04/24/25	04/29/25	
Q1870-03	**38073-100124**	**Water**			**04/22/25**			**04/24/25**
			SVOCMS Group2	8270E		04/24/25	04/29/25	

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Hit Summary Sheet
SW-846

SDG No.: Q1870

Client: Alliance Technical Group, LLC - Newark

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
Client ID : 38072-010925								
Q1870-01	38072-010925	WATER	Acenaphthylene	240.000	E	0.04	0.1	ug/L
			Total Svoc :	**240.00**				
			Total Concentration:	**240.00**				
Client ID : 38072-010925DL								
Q1870-01DL	38072-010925DL	WATER	Acenaphthylene	240.000	ED	0.19	0.5	ug/L
			Total Svoc :	**240.00**				
			Total Concentration:	**240.00**				
Client ID : 38072-010925DL2								
Q1870-01DL2	38072-010925DL2	WATER	Acenaphthylene	230.000	D	1.9	5	ug/L
			Total Svoc :	**230.00**				
			Total Concentration:	**230.00**				

QC SUMMARY

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Surrogate Summary

SW-846

SDG No.: Q1870

Client: Alliance Technical Group, LLC - Newark

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB167728BL	PB167728BL	2-Methylnaphthalene-d10	0.4	0.32	81		20	139
		Fluoranthene-d10	0.4	0.36	90		30	150
		Nitrobenzene-d5	0.4	0.33	82		27	154
		2-Fluorobiphenyl	0.4	0.35	88		25	149
		Terphenyl-d14	0.4	0.37	91		54	175
PB167728BS	PB167728BS	2-Methylnaphthalene-d10	0.4	0.37	93		20	139
		Fluoranthene-d10	0.4	0.33	82		30	150
		Nitrobenzene-d5	0.4	0.35	87		27	154
		2-Fluorobiphenyl	0.4	0.37	92		25	149
		Terphenyl-d14	0.4	0.36	89		54	175
Q1870-01	38072-010925	2-Methylnaphthalene-d10	0.4	0.42	105		20	139
		Fluoranthene-d10	0.4	0.46	115		30	150
		Nitrobenzene-d5	0.4	0.42	104		27	154
		2-Fluorobiphenyl	0.4	0.41	103		25	149
		Terphenyl-d14	0.4	0.37	93		54	175
Q1870-01DL	38072-010925DL	2-Methylnaphthalene-d10	0.4	0.42	104		20	139
		Fluoranthene-d10	0.4	0.44	110		30	150
		Nitrobenzene-d5	0.4	0.42	105		27	154
		2-Fluorobiphenyl	0.4	0.41	101		25	149
		Terphenyl-d14	0.4	0.35	88		54	175
Q1870-01DL2	38072-010925DL2	2-Methylnaphthalene-d10	0.4	0	0	*	20	139
		Fluoranthene-d10	0.4	0	0	*	30	150
		Nitrobenzene-d5	0.4	0	0	*	27	154
		2-Fluorobiphenyl	0.4	0	0	*	25	149
		Terphenyl-d14	0.4	0	0	*	54	175

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1870

Client: Alliance Technical Group, LLC - Newark

Analytical Method: 8270-Modified **DataFile:** BN036939.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB167728BS	Acenaphthylene	0.4	0.37	ug/L	93				60	119	

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB167728BL

Lab Name: CHEMTECH Contract: ALLI03

Lab Code: CHEM Case No.: Q1870 SAS No.: Q1870 SDG NO.: Q1870

Lab File ID: BN036934.D Lab Sample ID: PB167728BL

Instrument ID: BNA_N Date Extracted: 04/24/2025

Matrix: (soil/water) Water Date Analyzed: 04/29/2025

Level: (low/med) LOW Time Analyzed: 09:53

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB167728BS	PB167728BS	BN036939.D	04/29/2025
38072-010925	Q1870-01	BN036936.D	04/29/2025

COMMENTS:

Form IV SV

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: ALLI03

Lab Code: CHEM SAS No.: Q1870 SDG NO.: Q1870

Lab File ID: BN036922.D DFTPP Injection Date: 04/28/2025

Instrument ID: BNA_N DFTPP Injection Time: 10:56

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	58.8
70	Less than 2.0% of mass 69	0.2 (0.4) 1
127	10.0 - 80.0% of mass 198	54.3
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	23.7
365	Greater than 1% of mass 198	3.8
441	Present, but less than mass 443	8.4
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	9.3 (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
SSTDICC0.1	SSTDICC0.1	BN036923.D	04/28/2025	11:35
SSTDICC0.2	SSTDICC0.2	BN036924.D	04/28/2025	12:11
SSTDICCC0.4	SSTDICCC0.4	BN036925.D	04/28/2025	12:47
SSTDICC0.8	SSTDICC0.8	BN036926.D	04/28/2025	13:24
SSTDICC1.6	SSTDICC1.6	BN036927.D	04/28/2025	14:00
SSTDICC3.2	SSTDICC3.2	BN036928.D	04/28/2025	14:36
SSTDICC5.0	SSTDICC5.0	BN036929.D	04/28/2025	15:12

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: ALLI03

Lab Code: CHEM SAS No.: Q1870 SDG NO.: Q1870

Lab File ID: BN036932.D DFTPP Injection Date: 04/29/2025

Instrument ID: BNA_N DFTPP Injection Time: 08:38

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	0.8 (1.3) 1
69	Mass 69 relative abundance	59.7
70	Less than 2.0% of mass 69	0.3 (0.6) 1
127	10.0 - 80.0% of mass 198	54.5
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	7
275	10.0 - 60.0% of mass 198	23.1
365	Greater than 1% of mass 198	3.7
441	Present, but less than mass 443	7.7
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	9.9 (21.2) 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	BN036933.D	04/29/2025	09:17
PB167728BL	PB167728BL	BN036934.D	04/29/2025	09:53
38072-010925	Q1870-01	BN036936.D	04/29/2025	13:05
38072-010925DL	Q1870-01DL	BN036937.D	04/29/2025	13:41
38072-010925DL2	Q1870-01DL2	BN036938.D	04/29/2025	14:17
PB167728BS	PB167728BS	BN036939.D	04/29/2025	14:54

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1870 SAS No.: Q1870 SDG NO.: Q1870

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 04/29/2025

Lab File ID: BN036933.D Time Analyzed: 09:17

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	2604	7.633	6625	10.40	3573	14.28
	UPPER LIMIT	5208	8.133	13250	10.904	7146	14.777
	LOWER LIMIT	1302	7.133	3312.5	9.904	1786.5	13.777
	EPA SAMPLE NO.						
01	PB167728BL	2379	7.63	5573	10.42	2873	14.28
02	38072-010925	1925	7.63	5445	10.42	3190	14.28
03	38072-010925DL	2660	7.63	7273	10.40	4170	14.28
04	PB167728BS	2630	7.63	6464	10.42	3313	14.28
05	38072-010925DL2	2432	7.63	6295	10.42	3589	14.28

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.: Q1870 SAS No.: Q1870 SDG NO.: Q1870

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 04/29/2025

Lab File ID: BN036933.D Time Analyzed: 09:17

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	6894	17.021	5083	21.216	4284	23.427
	UPPER LIMIT	13788	17.521	10166	21.716	8568	23.927
	LOWER LIMIT	3447	16.521	2541.5	20.716	2142	22.927
	EPA SAMPLE NO.						
01	PB167728BL	5718	17.02	4280	21.22	3789	23.42
02	38072-010925	6294	17.02	6093	21.23	4542	23.43
03	38072-010925DL	7996	17.02	7787	21.22	5957	23.43
04	PB167728BS	6630	17.02	4615	21.22	3648	23.43
05	38072-010925DL2	7137	17.02	6695	21.22	5501	23.43

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

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

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

SAMPLE DATA

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

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	04/21/25
Project:	NJ Waste Water PT	Date Received:	04/23/25
Client Sample ID:	38072-010925	SDG No.:	Q1870
Lab Sample ID:	Q1870-01	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group5
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
BN036936.D	1	04/24/25 12:05	04/29/25 13:05	PB167728

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
208-96-8	Acenaphthylene	240	E	0.040	0.10	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.42		20 - 139	105%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.46		30 - 150	115%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.42		27 - 154	104%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.41		25 - 149	103%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.37		54 - 175	93%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	1930	7.633			
1146-65-2	Naphthalene-d8	5450	10.415			
15067-26-2	Acenaphthene-d10	3190	14.277			
1517-22-2	Phenanthrene-d10	6290	17.021			
1719-03-5	Chrysene-d12	6090	21.225			
1520-96-3	Perylene-d12	4540	23.427			

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\BN042925\
Data File : BN036936.D
Acq On : 29 Apr 2025 13:05
Operator : RC/JU
Sample : Q1870-01
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
38072-010925

Quant Time: Apr 29 13:29:18 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:35:03 2025
Response via : Initial Calibration

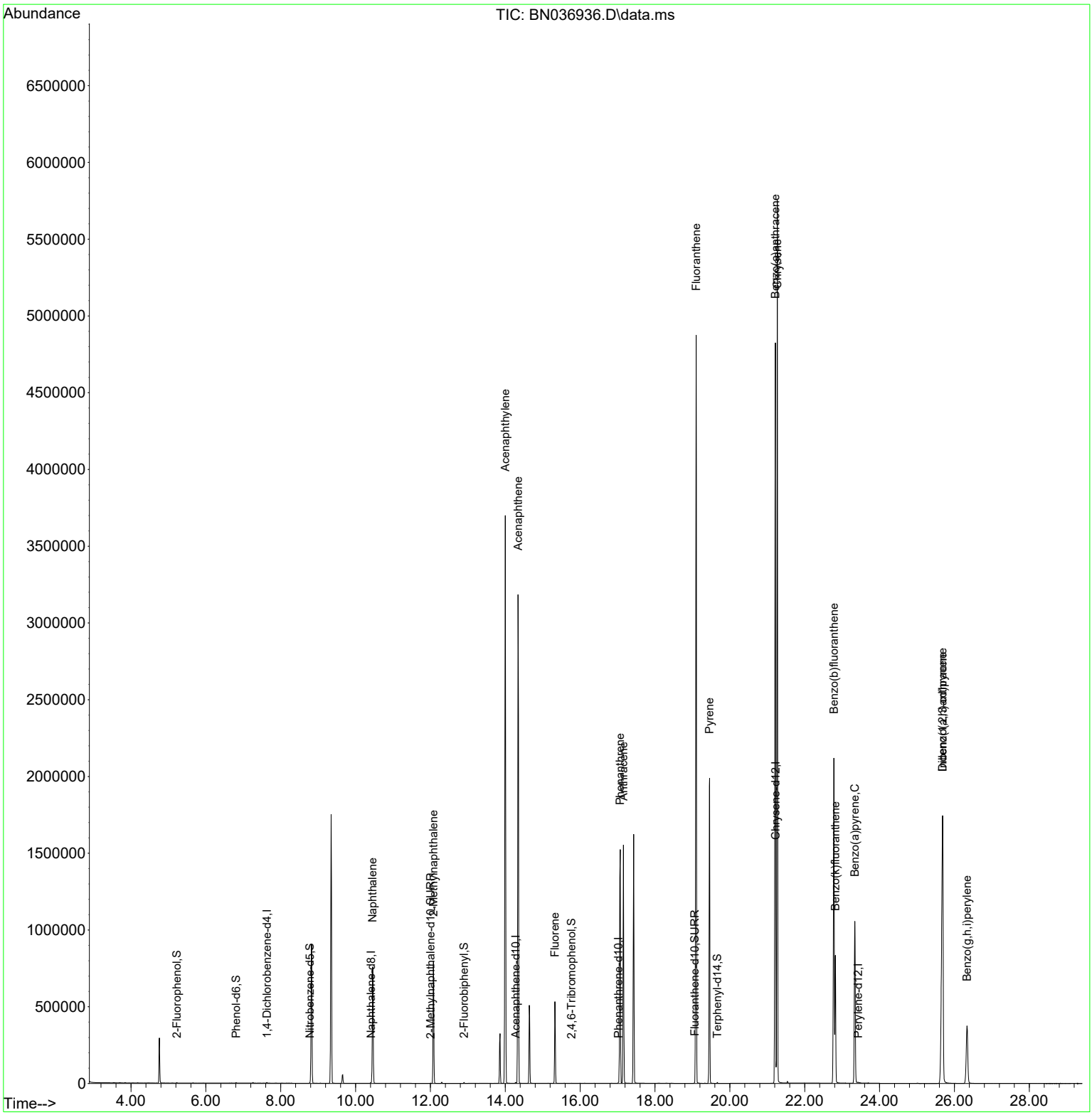
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.633	152	1925	0.400	ng		0.00
7) Naphthalene-d8	10.415	136	5445	0.400	ng		0.00
13) Acenaphthene-d10	14.277	164	3190	0.400	ng		0.00
19) Phenanthrene-d10	17.021	188	6294	0.400	ng		0.00
29) Chrysene-d12	21.225	240	6093	0.400	ng		0.00
35) Perylene-d12	23.427	264	4542	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.228	112	1734	0.352	ng		0.00
5) Phenol-d6	6.810	99	2400	0.396	ng		0.00
8) Nitrobenzene-d5	8.782	82	2370	0.416	ng		0.00
11) 2-Methylnaphthalene-d10	12.006	152	3196	0.420	ng		0.00
14) 2,4,6-Tribromophenol	15.768	330	303	0.213	ng		0.00
15) 2-Fluorobiphenyl	12.899	172	6365	0.413	ng		0.00
27) Fluoranthene-d10	19.063	212	7536	0.462	ng		0.00
31) Terphenyl-d14	19.663	244	5329	0.371	ng		0.00
Target Compounds							Qvalue
9) Naphthalene	10.458	128	916595	57.839	ng		98
12) 2-Methylnaphthalene	12.082	142	515219	50.291	ng		99
16) Acenaphthylene	13.999	152	3723039	238.798	ng		99
17) Acenaphthene	14.342	154	1522189	148.602	ng		95
18) Fluorene	15.325	166	299838	22.381	ng		99
25) Phenanthrene	17.071	178	1651033	79.476	ng		100
26) Anthracene	17.158	178	1384185	73.661	ng		100
28) Fluoranthene	19.101	202	4394407	188.748	ng		98
30) Pyrene	19.458	202	1714365	58.420	ng		98
32) Benzo(a)anthracene	21.216	228	4066087	181.199	ng		99
33) Chrysene	21.269	228	4265016	176.238	ng		98
36) Indeno(1,2,3-cd)pyrene	25.684	276	2815525	151.786	ng		95
37) Benzo(b)fluoranthene	22.781	252	2651471	138.833	ng	#	88
38) Benzo(k)fluoranthene	22.819	252	864365	45.004	ng	#	87
39) Benzo(a)pyrene	23.339	252	1407542	89.656	ng	#	81
40) Dibenzo(a,h)anthracene	25.684	278	699662	47.928	ng	#	88
41) Benzo(g,h,i)perylene	26.336	276	724777	44.737	ng		98

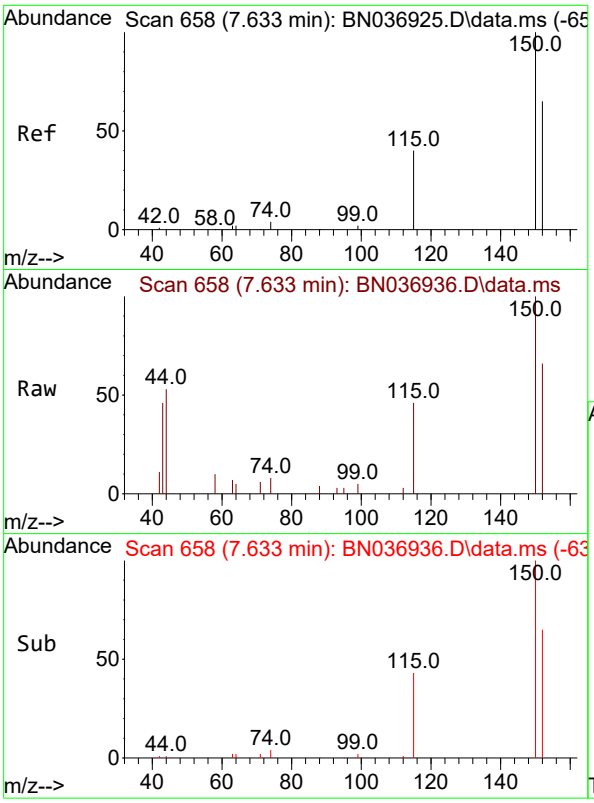
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042925\
Data File : BN036936.D
Acq On : 29 Apr 2025 13:05
Operator : RC/JU
Sample : Q1870-01
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
38072-010925

Quant Time: Apr 29 13:29:18 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:35:03 2025
Response via : Initial Calibration



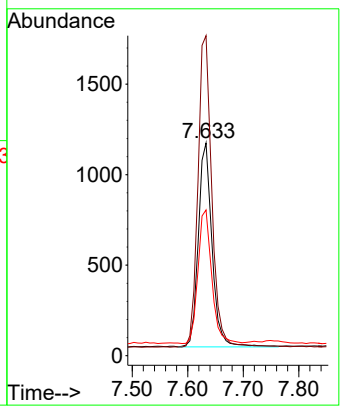


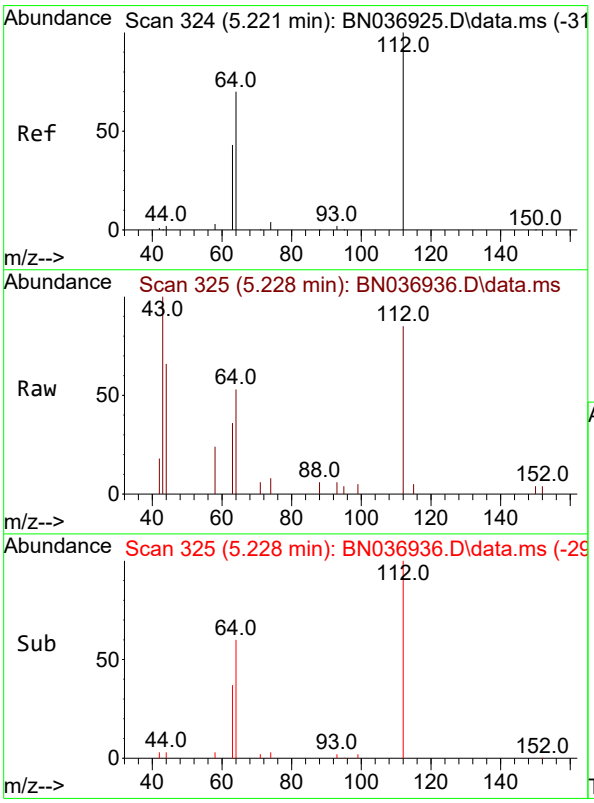
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.633 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN036936.D
Acq: 29 Apr 2025 13:05

Instrument :
BNA_N
ClientSampleId :
38072-010925

Tgt Ion:152 Resp: 1925

Ion	Ratio	Lower	Upper
152	100		
150	150.5	121.1	181.7
115	68.5	51.8	77.6

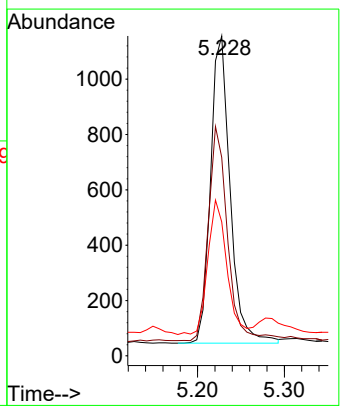


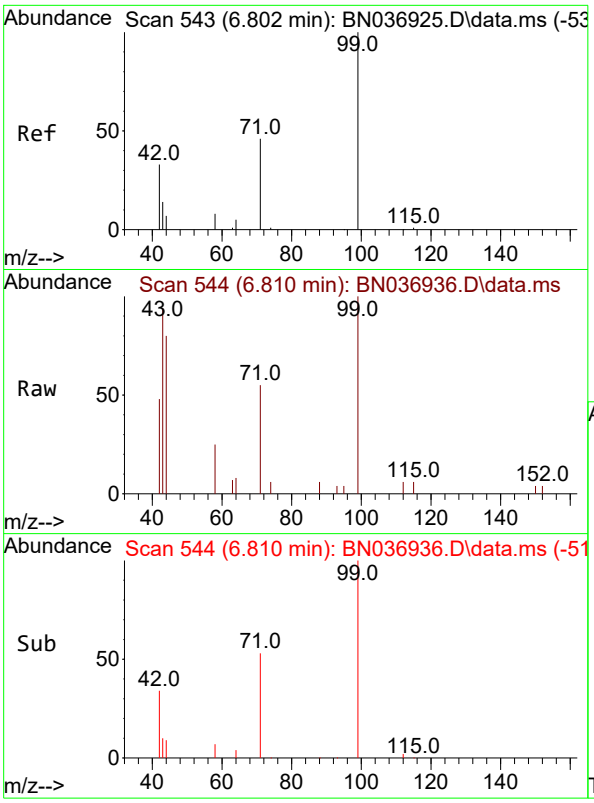


#4
2-Fluorophenol
Concen: 0.352 ng
RT: 5.228 min Scan# 325
Delta R.T. 0.007 min
Lab File: BN036936.D
Acq: 29 Apr 2025 13:05

Tgt Ion:112 Resp: 1734

Ion	Ratio	Lower	Upper
112	100		
64	70.9	55.7	83.5
63	42.2	33.9	50.9



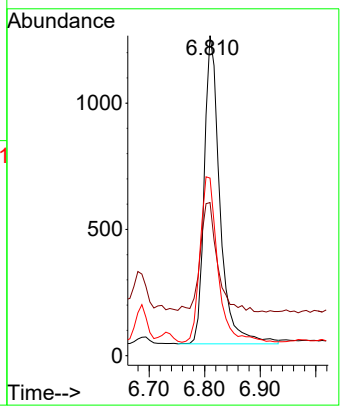


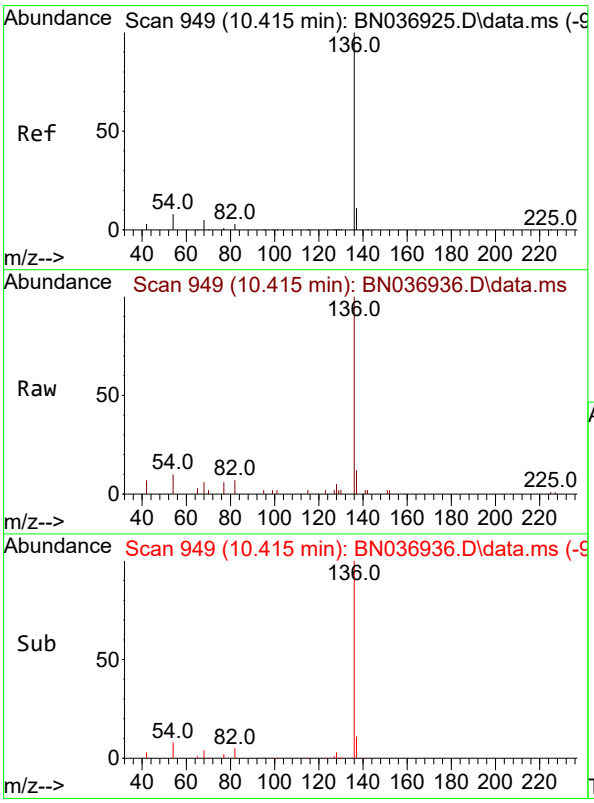
#5
Phenol-d6
Concen: 0.396 ng
RT: 6.810 min Scan# 54
Delta R.T. 0.007 min
Lab File: BN036936.D
Acq: 29 Apr 2025 13:05

Instrument :
BNA_N
ClientSampleId :
38072-010925

Tgt Ion: 99 Resp: 2400

Ion	Ratio	Lower	Upper
99	100		
42	38.9	29.6	44.4
71	61.0	36.0	54.0#

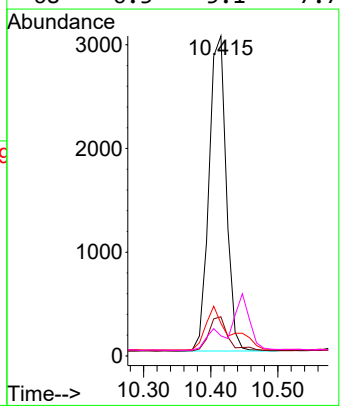


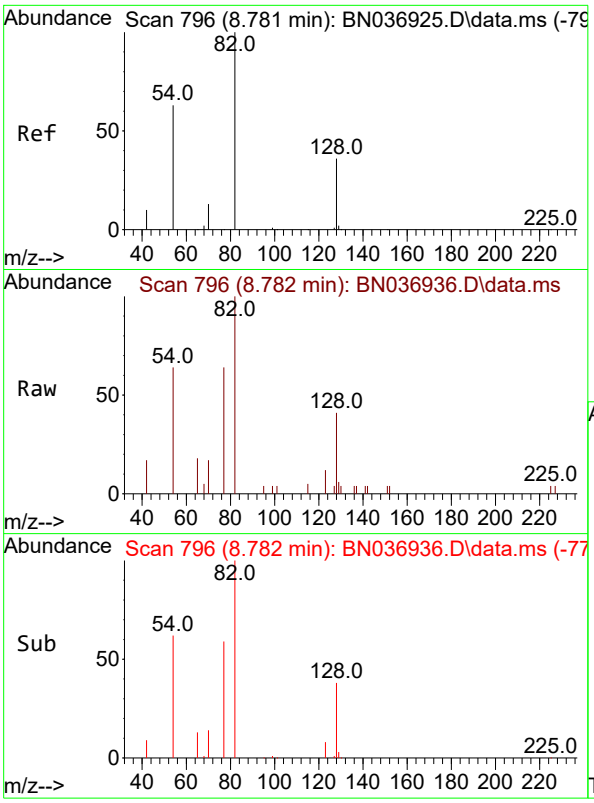


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.415 min Scan# 949
Delta R.T. 0.000 min
Lab File: BN036936.D
Acq: 29 Apr 2025 13:05

Tgt Ion:136 Resp: 5445

Ion	Ratio	Lower	Upper
136	100		
137	12.2	9.7	14.5
54	10.2	8.0	12.0
68	6.3	5.1	7.7



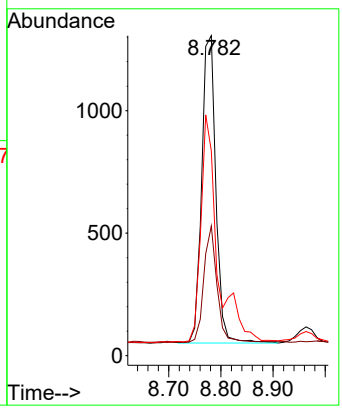


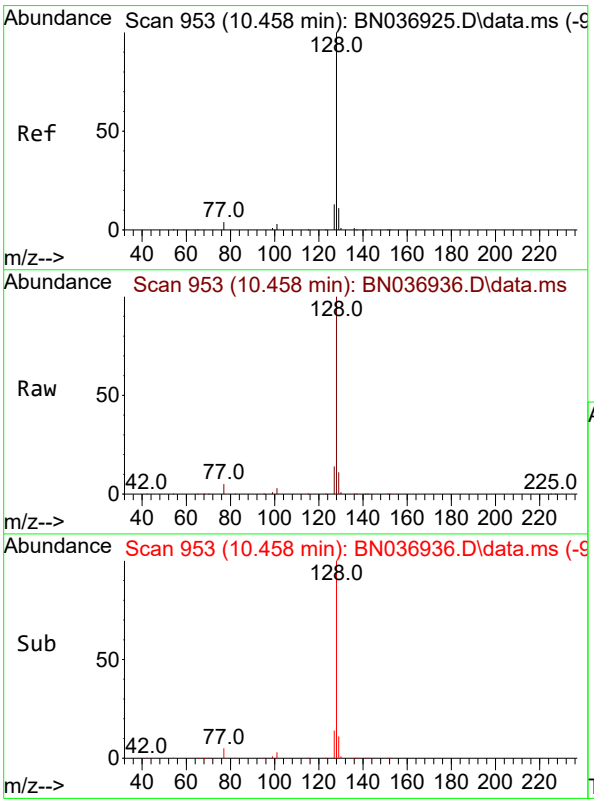
#8
Nitrobenzene-d5
Concen: 0.416 ng
RT: 8.782 min Scan# 7
Delta R.T. 0.000 min
Lab File: BN036936.D
Acq: 29 Apr 2025 13:05

Instrument :
BNA_N
ClientSampleId :
38072-010925

Tgt Ion: 82 Resp: 2370

Ion	Ratio	Lower	Upper
82	100		
128	40.6	30.7	46.1
54	64.0	52.1	78.1

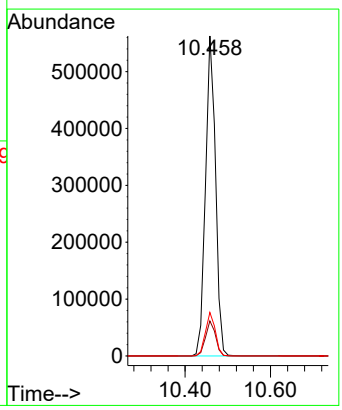


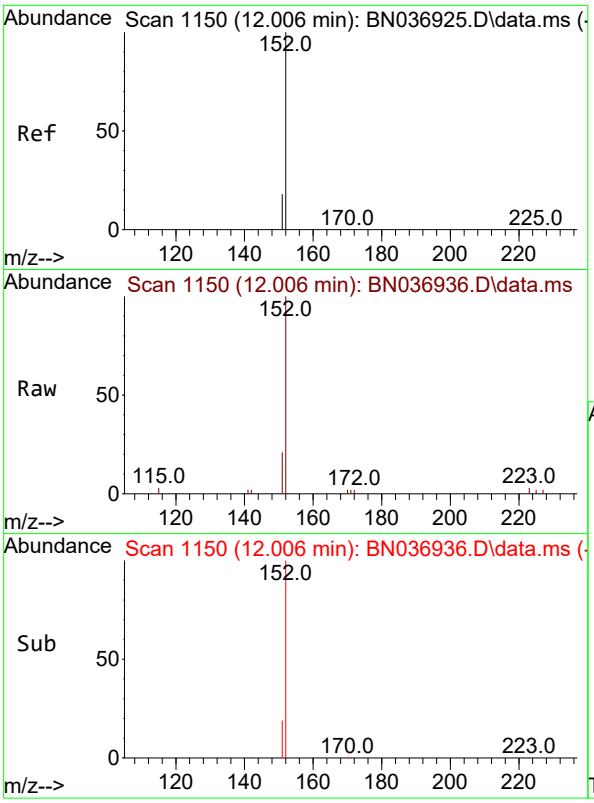


#9
Naphthalene
Concen: 57.839 ng
RT: 10.458 min Scan# 953
Delta R.T. 0.000 min
Lab File: BN036936.D
Acq: 29 Apr 2025 13:05

Tgt Ion:128 Resp: 916595

Ion	Ratio	Lower	Upper
128	100		
129	11.0	9.8	14.6
127	13.6	11.4	17.2



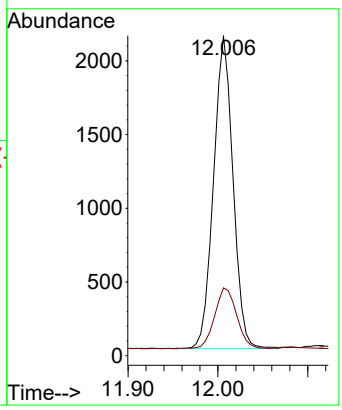


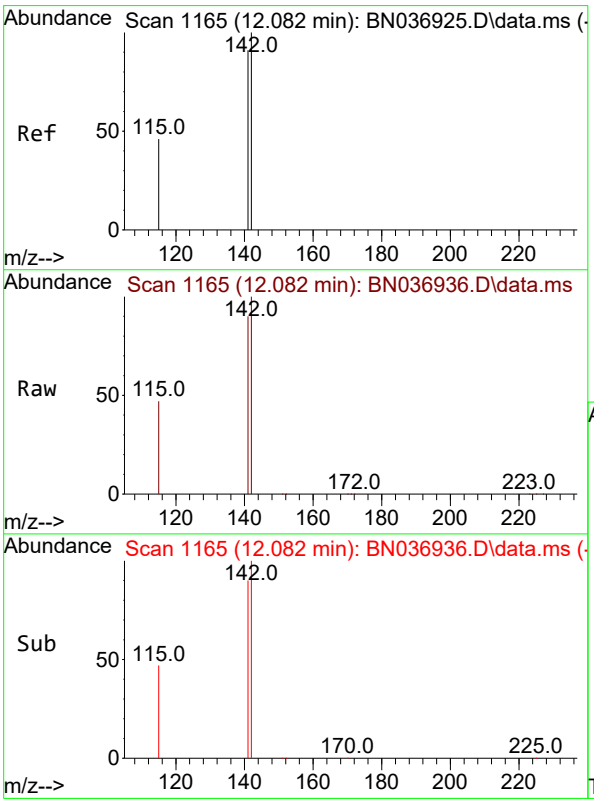
#11
2-Methylnaphthalene-d10
Concen: 0.420 ng
RT: 12.006 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN036936.D
Acq: 29 Apr 2025 13:05

Instrument :
BNA_N
ClientSampleId :
38072-010925

Tgt Ion:152 Resp: 3196

Ion	Ratio	Lower	Upper
152	100		
151	21.9	16.9	25.3

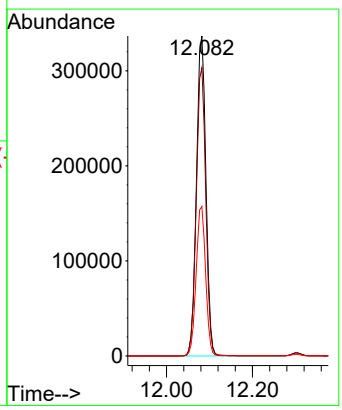


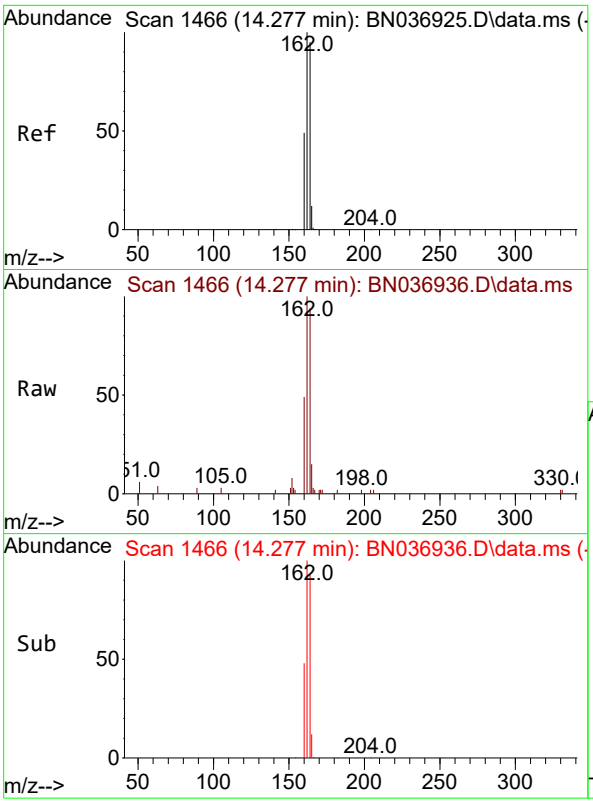


#12
2-Methylnaphthalene
Concen: 50.291 ng
RT: 12.082 min Scan# 1165
Delta R.T. 0.000 min
Lab File: BN036936.D
Acq: 29 Apr 2025 13:05

Tgt Ion:142 Resp: 515219

Ion	Ratio	Lower	Upper
142	100		
141	90.0	72.8	109.2
115	46.7	38.2	57.4



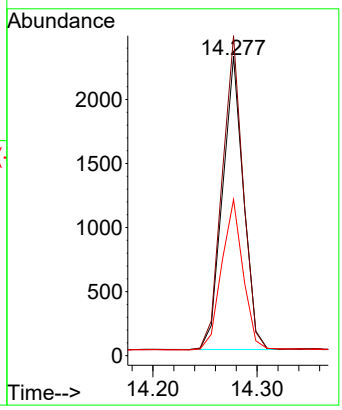


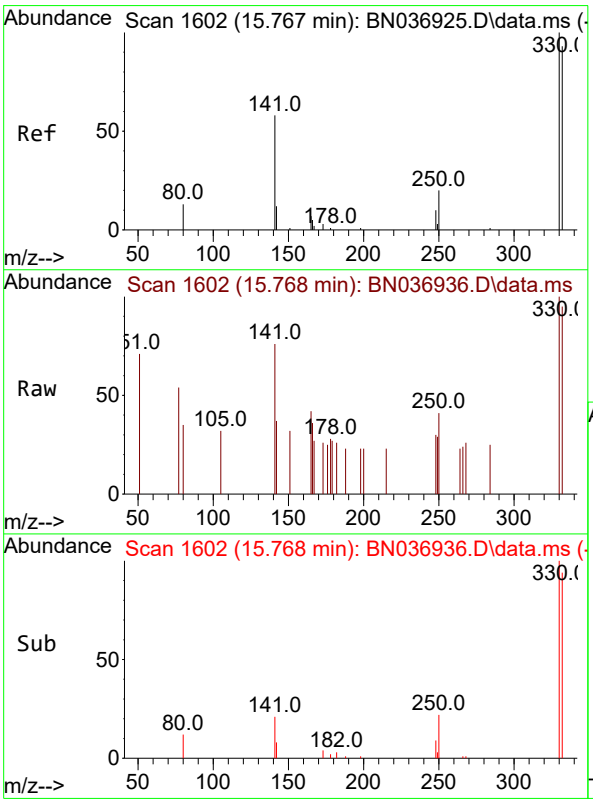
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.277 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036936.D
Acq: 29 Apr 2025 13:05

Instrument :
BNA_N
ClientSampleId :
38072-010925

Tgt Ion:164 Resp: 3190

Ion	Ratio	Lower	Upper
164	100		
162	106.8	83.8	125.8
160	52.1	42.0	63.0

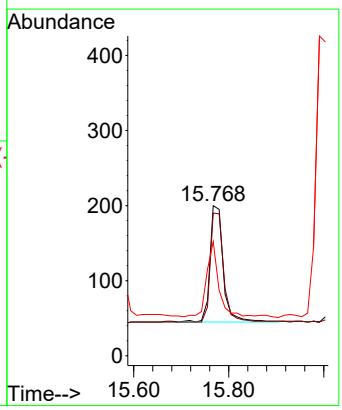


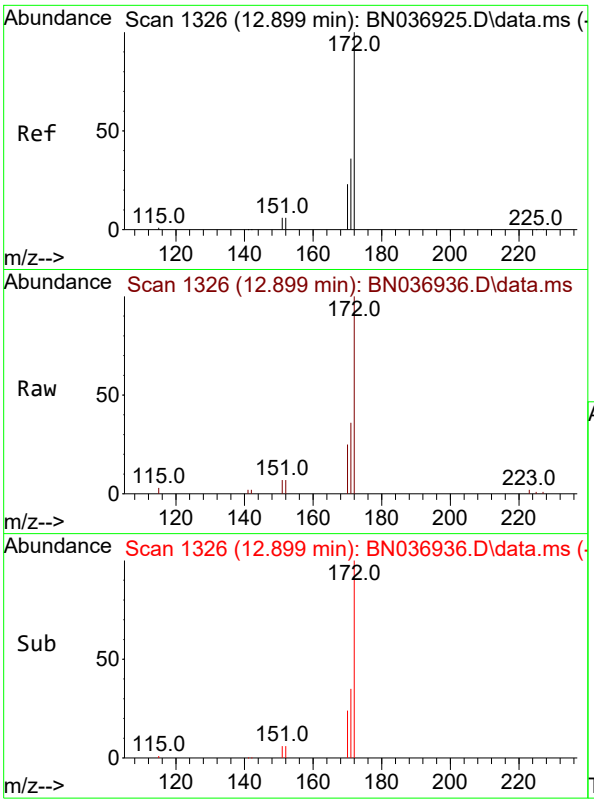


#14
2,4,6-Tribromophenol
Concen: 0.213 ng
RT: 15.768 min Scan# 1602
Delta R.T. 0.000 min
Lab File: BN036936.D
Acq: 29 Apr 2025 13:05

Tgt Ion:330 Resp: 303

Ion	Ratio	Lower	Upper
330	100		
332	93.1	76.3	114.5
141	57.8	45.4	68.2



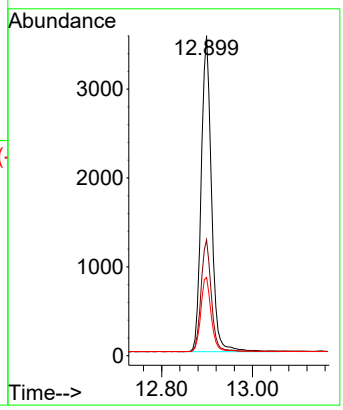


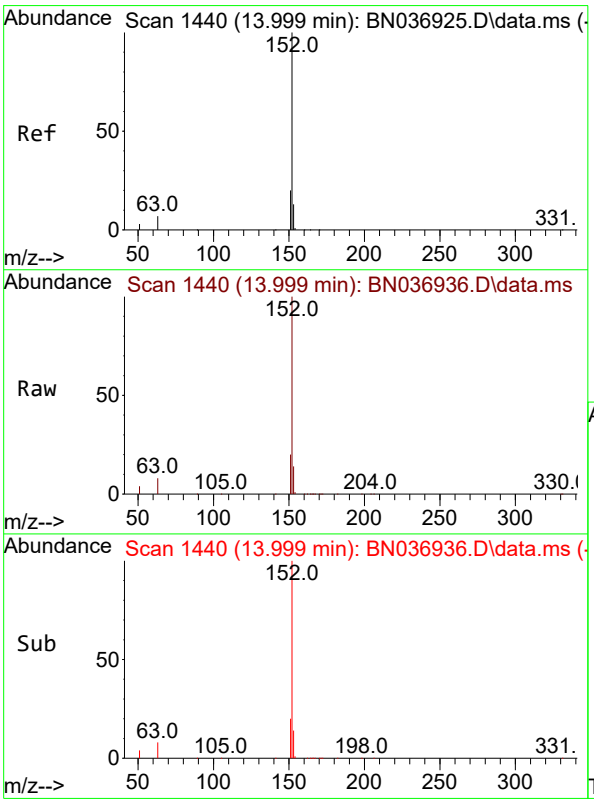
#15
2-Fluorobiphenyl
Concen: 0.413 ng
RT: 12.899 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036936.D
Acq: 29 Apr 2025 13:05

Instrument :
BNA_N
ClientSampleId :
38072-010925

Tgt Ion:172 Resp: 6365

Ion	Ratio	Lower	Upper
172	100		
171	36.2	29.4	44.0
170	24.5	19.4	29.0

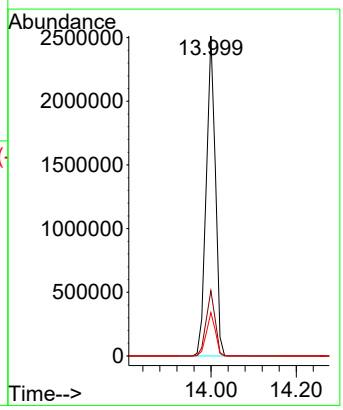


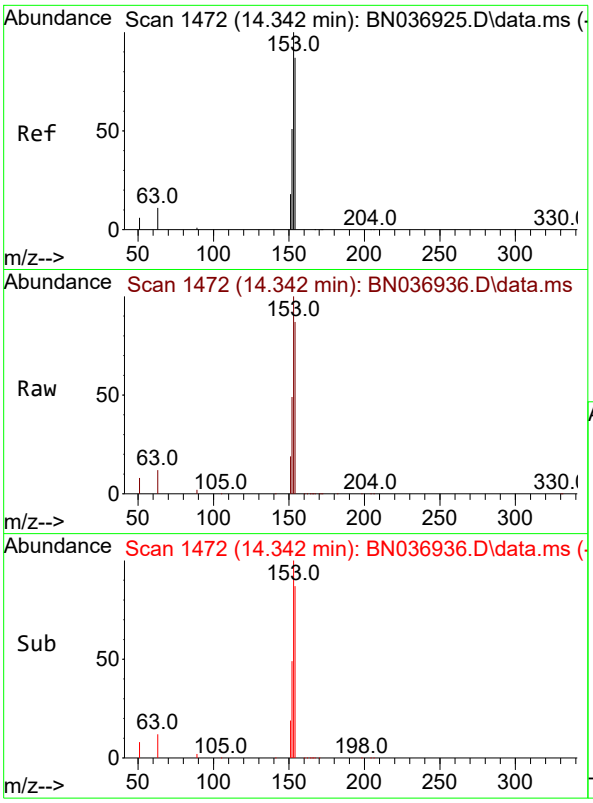


#16
Acenaphthylene
Concen: 238.798 ng
RT: 13.999 min Scan# 1440
Delta R.T. 0.000 min
Lab File: BN036936.D
Acq: 29 Apr 2025 13:05

Tgt Ion:152 Resp: 3723039

Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.0	24.0
153	13.5	10.2	15.2



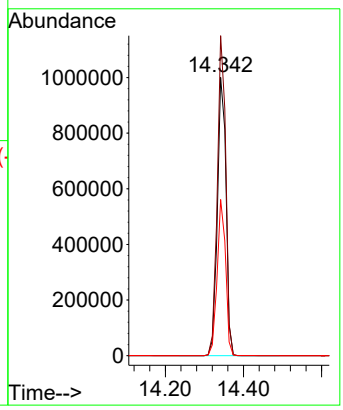


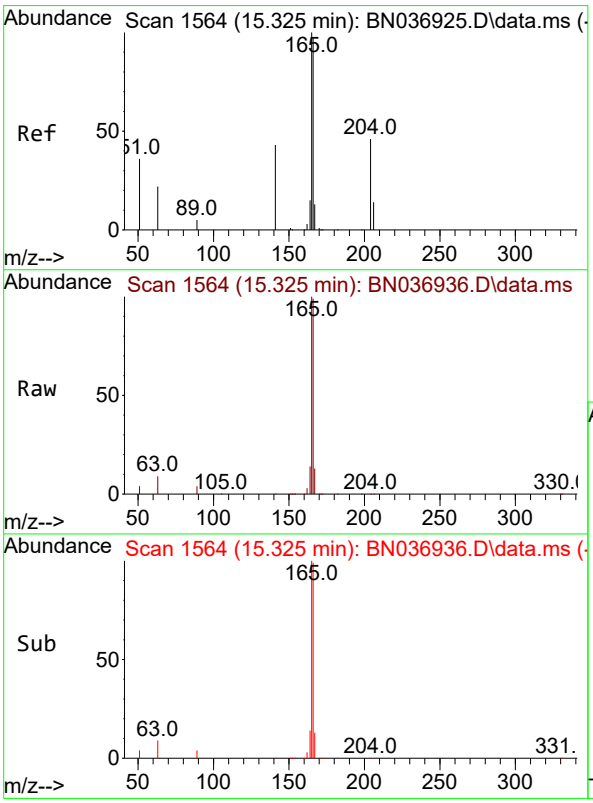
#17
Acenaphthene
Concen: 148.602 ng
RT: 14.342 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036936.D
Acq: 29 Apr 2025 13:05

Instrument :
BNA_N
ClientSampleId :
38072-010925

Tgt Ion:154 Resp: 1522189

Ion	Ratio	Lower	Upper
154	100		
153	113.7	93.4	140.2
152	55.1	49.5	74.3

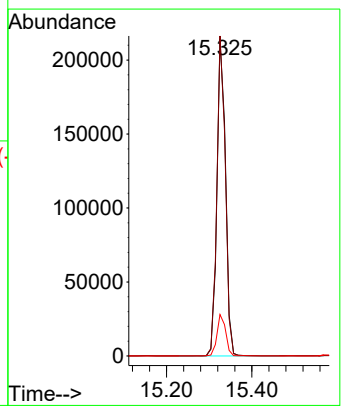


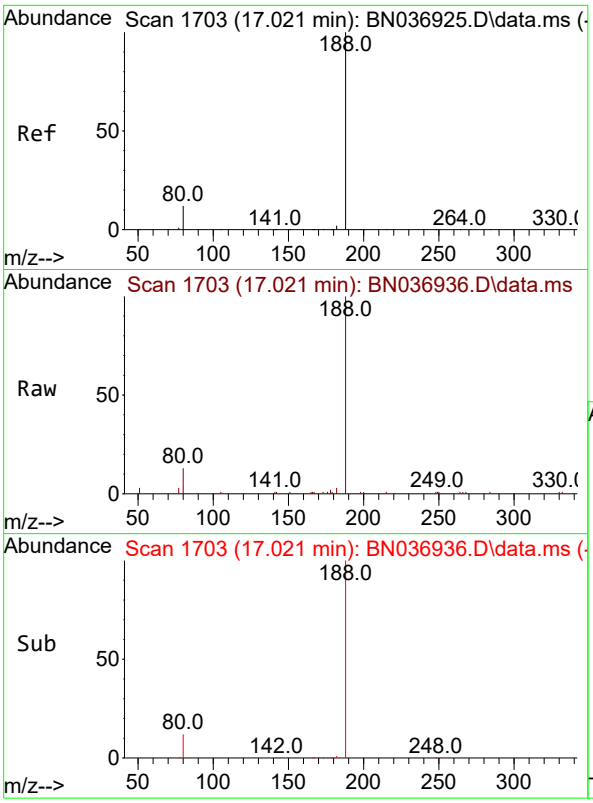


#18
Fluorene
Concen: 22.381 ng
RT: 15.325 min Scan# 1564
Delta R.T. 0.000 min
Lab File: BN036936.D
Acq: 29 Apr 2025 13:05

Tgt Ion:166 Resp: 299838

Ion	Ratio	Lower	Upper
166	100		
165	99.7	80.8	121.2
167	13.2	10.8	16.2



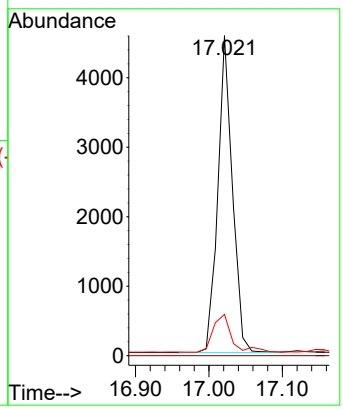


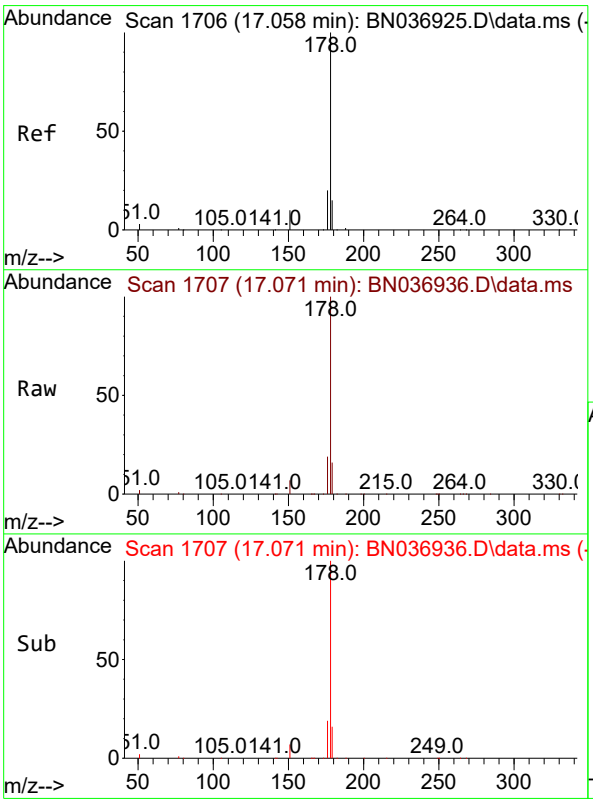
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.021 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036936.D
Acq: 29 Apr 2025 13:05

Instrument :
BNA_N
ClientSampleId :
38072-010925

Tgt Ion:188 Resp: 6294

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.9	10.7	16.1

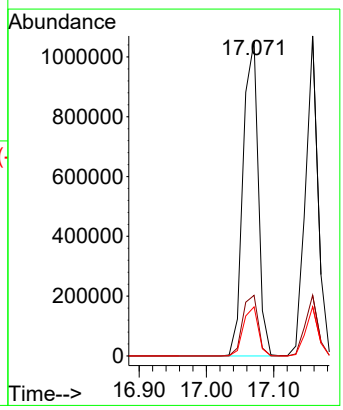


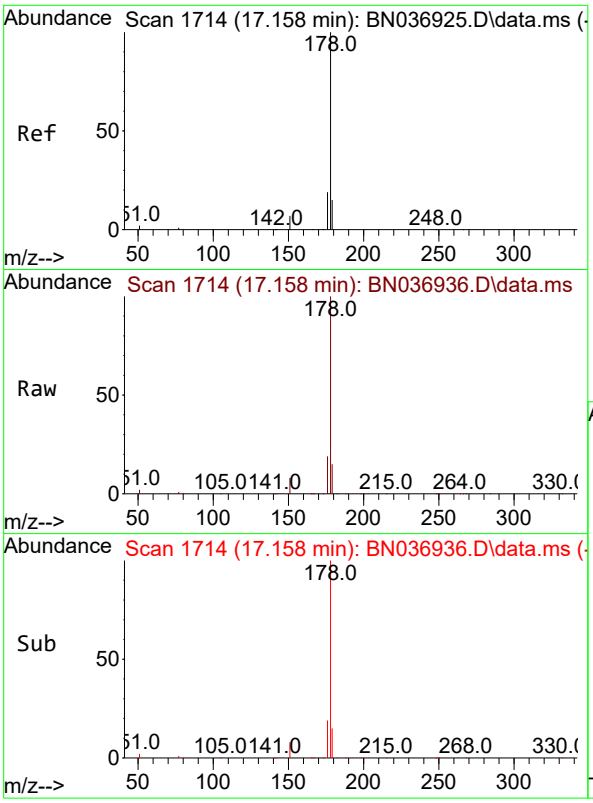


#25
Phenanthrene
Concen: 79.476 ng
RT: 17.071 min Scan# 1707
Delta R.T. 0.012 min
Lab File: BN036936.D
Acq: 29 Apr 2025 13:05

Tgt Ion:178 Resp: 1651033

Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.7	23.5
179	15.4	12.4	18.6



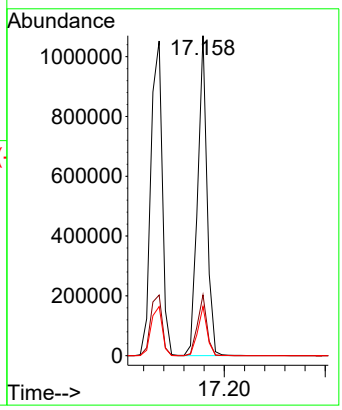


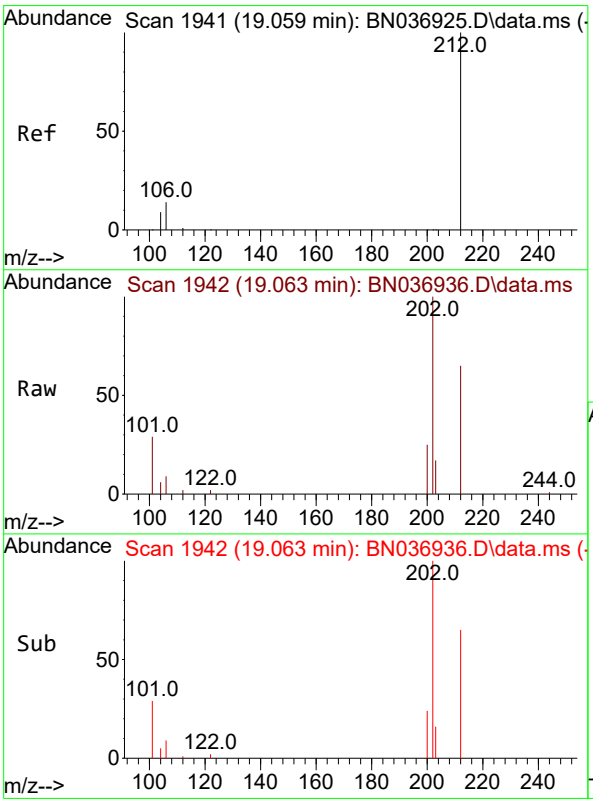
#26
Anthracene
Concen: 73.661 ng
RT: 17.158 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036936.D
Acq: 29 Apr 2025 13:05

Instrument :
BNA_N
ClientSampleId :
38072-010925

Tgt Ion:178 Resp: 1384185

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.3	22.9
179	15.3	12.1	18.1

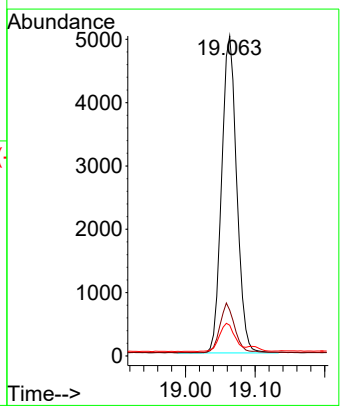


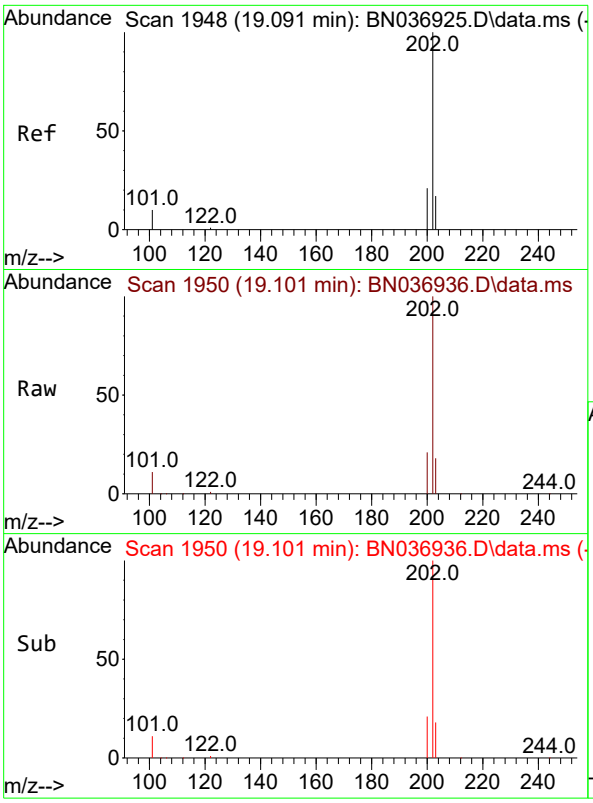


#27
Fluoranthene-d10
Concen: 0.462 ng
RT: 19.063 min Scan# 1942
Delta R.T. 0.005 min
Lab File: BN036936.D
Acq: 29 Apr 2025 13:05

Tgt Ion:212 Resp: 7536

Ion	Ratio	Lower	Upper
212	100		
106	15.2	11.6	17.4
104	9.2	7.0	10.4



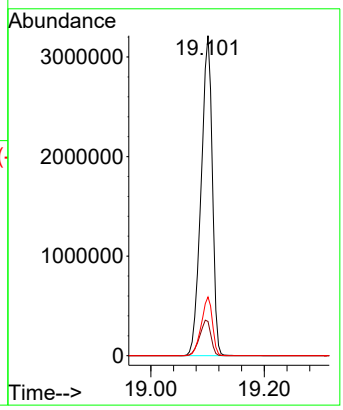


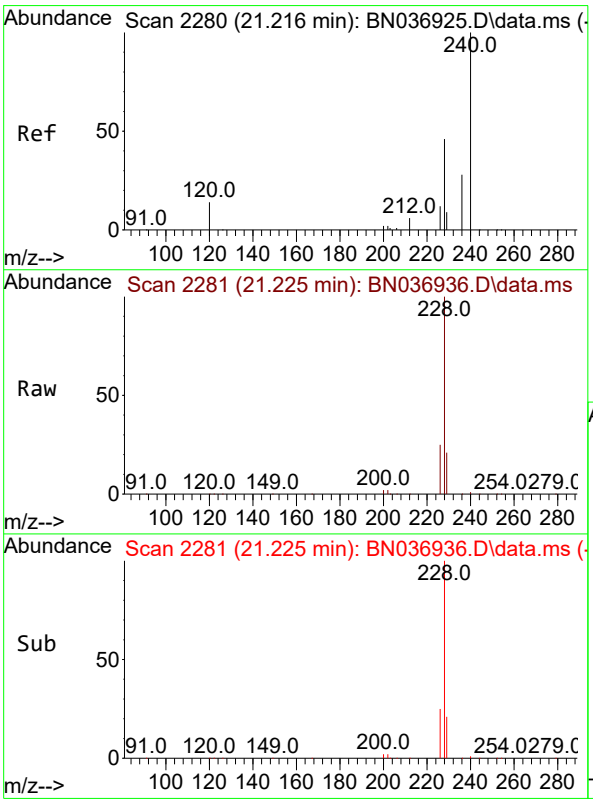
#28
Fluoranthene
Concen: 188.748 ng
RT: 19.101 min Scan# 1
Delta R.T. 0.009 min
Lab File: BN036936.D
Acq: 29 Apr 2025 13:05

Instrument :
BNA_N
ClientSampleId :
38072-010925

Tgt Ion:202 Resp: 4394407

Ion	Ratio	Lower	Upper
202	100		
101	11.3	8.5	12.7
203	18.2	13.7	20.5

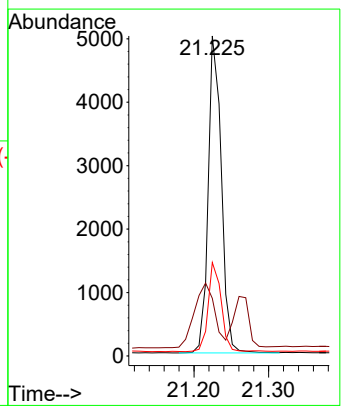


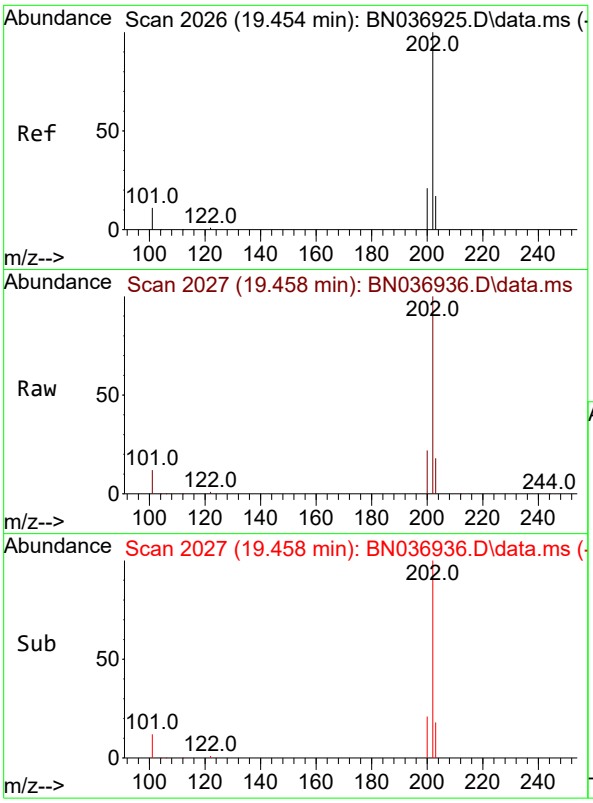


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.225 min Scan# 2281
Delta R.T. 0.009 min
Lab File: BN036936.D
Acq: 29 Apr 2025 13:05

Tgt Ion:240 Resp: 6093

Ion	Ratio	Lower	Upper
240	100		
120	18.0	14.1	21.1
236	29.2	23.8	35.8



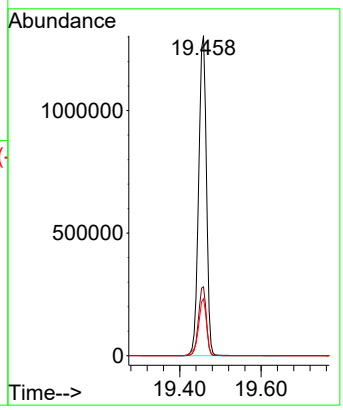


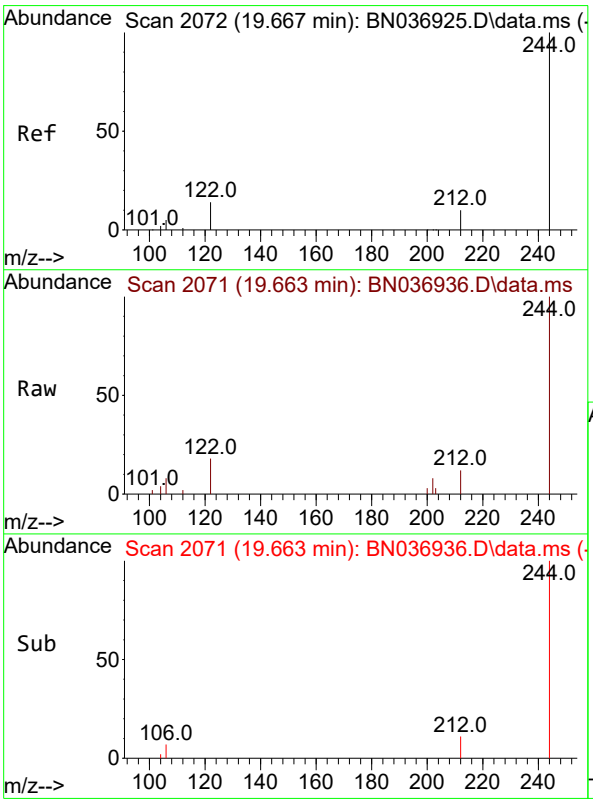
#30
Pyrene
Concen: 58.420 ng
RT: 19.458 min Scan# 2
Delta R.T. 0.005 min
Lab File: BN036936.D
Acq: 29 Apr 2025 13:05

Instrument :
BNA_N
ClientSampleId :
38072-010925

Tgt Ion:202 Resp: 1714365

Ion	Ratio	Lower	Upper
202	100		
200	21.7	17.0	25.6
203	18.6	14.0	21.0

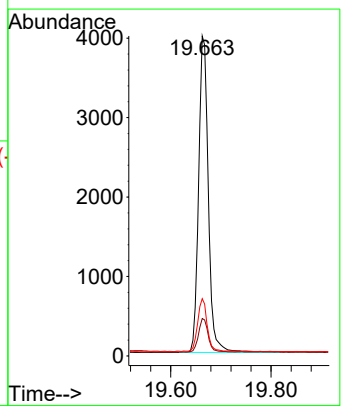


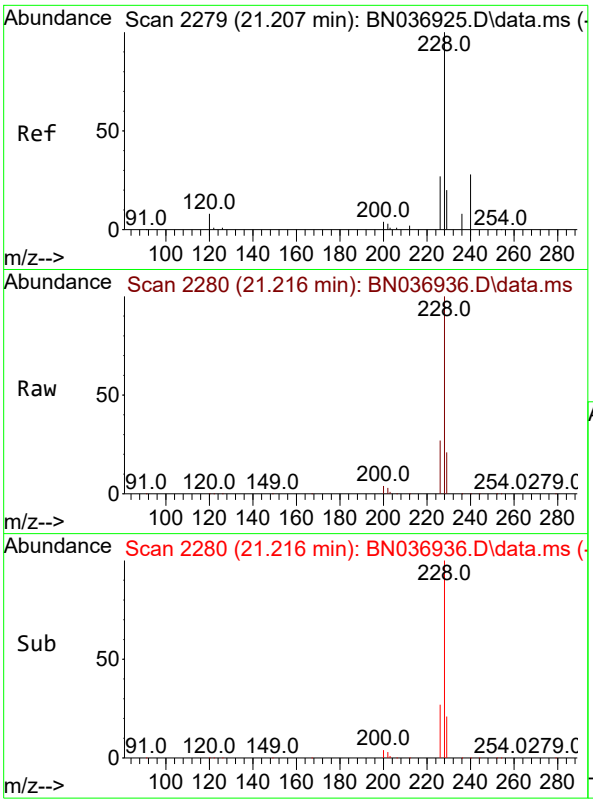


#31
Terphenyl-d14
Concen: 0.371 ng
RT: 19.663 min Scan# 2071
Delta R.T. -0.005 min
Lab File: BN036936.D
Acq: 29 Apr 2025 13:05

Tgt Ion:244 Resp: 5329

Ion	Ratio	Lower	Upper
244	100		
212	11.7	9.6	14.4
122	17.9	12.7	19.1



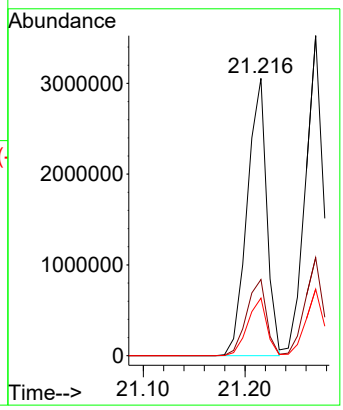


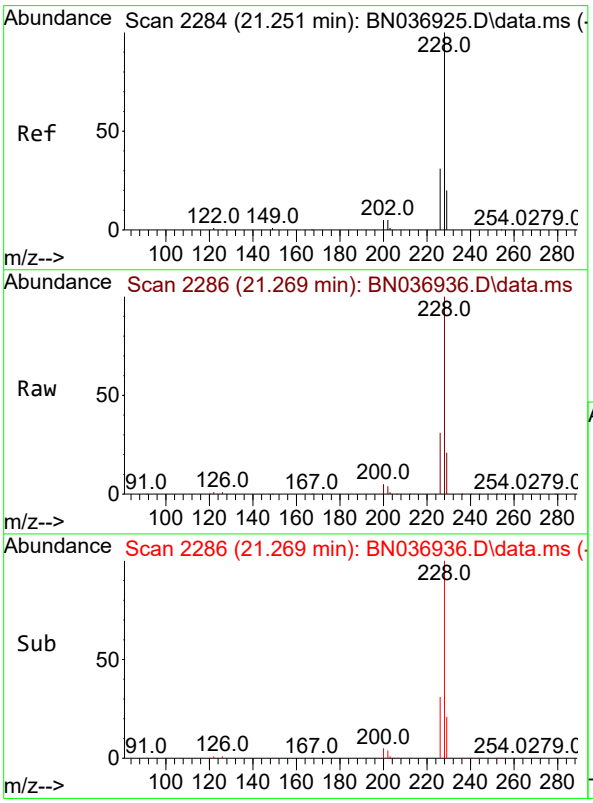
#32
Benzo(a)anthracene
Concen: 181.199 ng
RT: 21.216 min Scan# 2
Delta R.T. 0.009 min
Lab File: BN036936.D
Acq: 29 Apr 2025 13:05

Instrument :
BNA_N
ClientSampleId :
38072-010925

Tgt Ion:228 Resp: 4066087

Ion	Ratio	Lower	Upper
228	100		
226	27.5	22.2	33.4
229	20.8	16.4	24.6

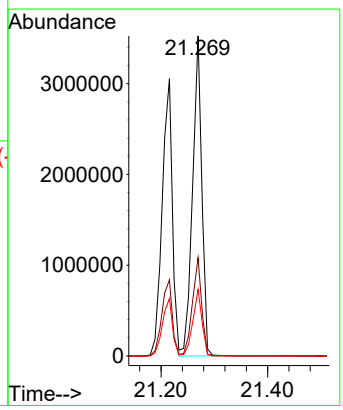


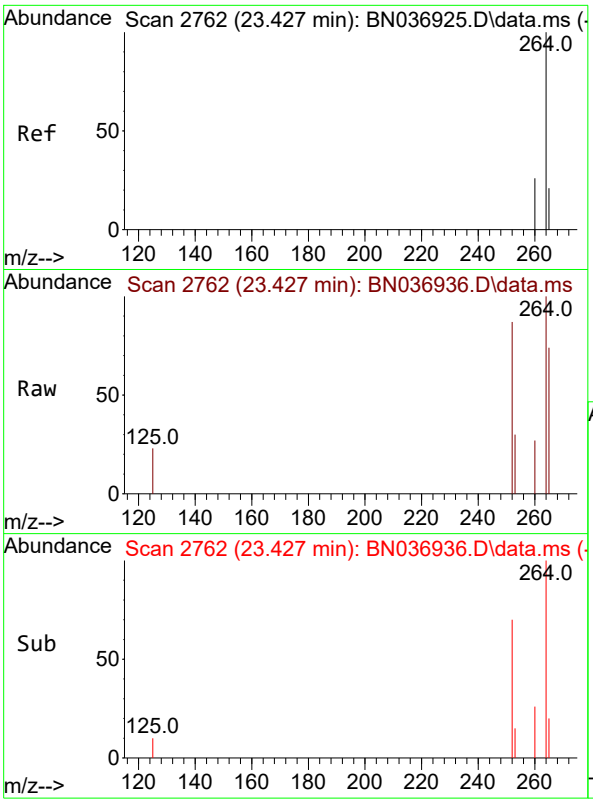


#33
Chrysene
Concen: 176.238 ng
RT: 21.269 min Scan# 2286
Delta R.T. 0.018 min
Lab File: BN036936.D
Acq: 29 Apr 2025 13:05

Tgt Ion:228 Resp: 4265016

Ion	Ratio	Lower	Upper
228	100		
226	30.7	25.5	38.3
229	20.8	16.5	24.7



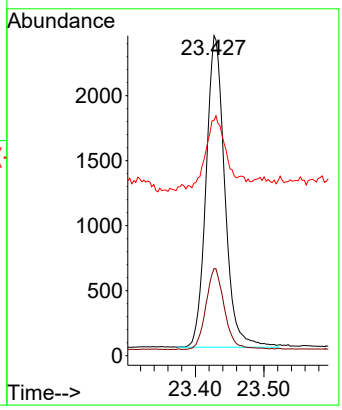


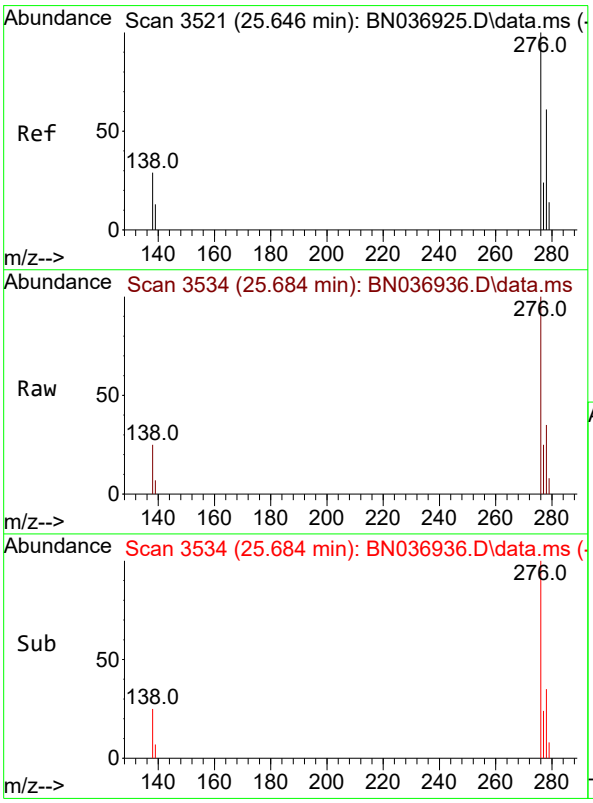
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.427 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036936.D
Acq: 29 Apr 2025 13:05

Instrument :
BNA_N
ClientSampleId :
38072-010925

Tgt Ion:264 Resp: 4542

Ion	Ratio	Lower	Upper
264	100		
260	27.2	22.2	33.2
265	73.5	65.8	98.6

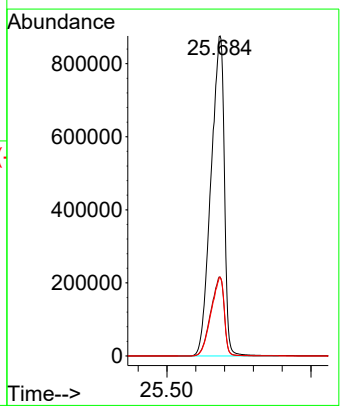


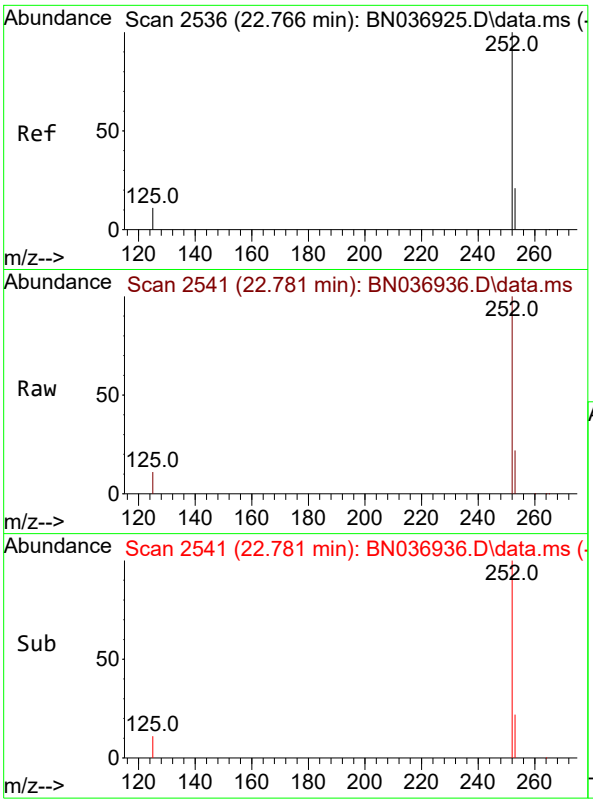


#36
Indeno(1,2,3-cd)pyrene
Concen: 151.786 ng
RT: 25.684 min Scan# 3534
Delta R.T. 0.038 min
Lab File: BN036936.D
Acq: 29 Apr 2025 13:05

Tgt Ion:276 Resp: 2815525

Ion	Ratio	Lower	Upper
276	100		
138	24.9	23.0	34.6
277	24.3	20.0	30.0



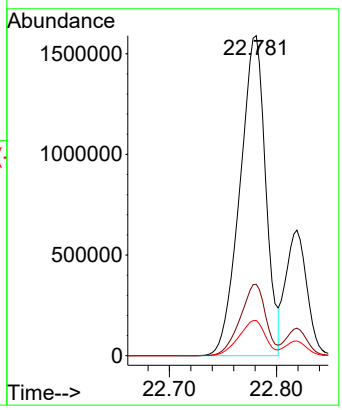


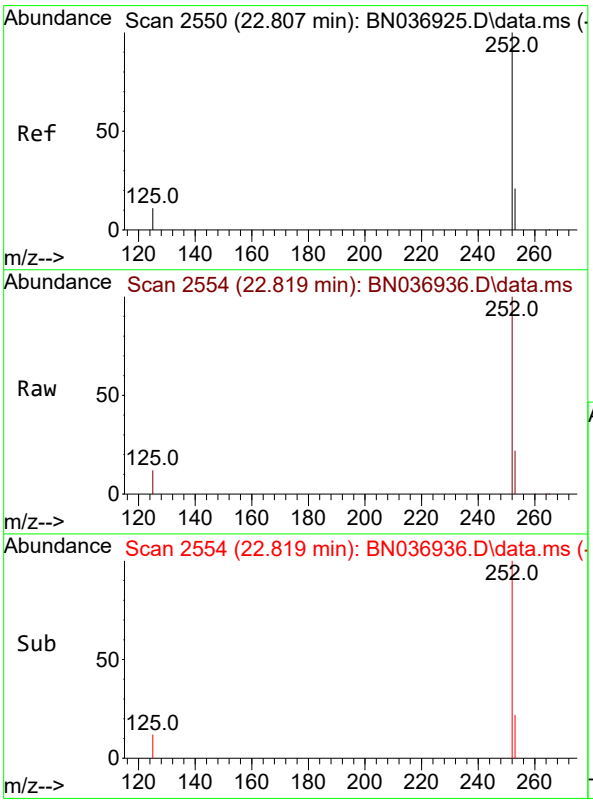
#37
Benzo(b)fluoranthene
Concen: 138.833 ng
RT: 22.781 min Scan# 2
Delta R.T. 0.015 min
Lab File: BN036936.D
Acq: 29 Apr 2025 13:05

Instrument :
BNA_N
ClientSampleId :
38072-010925

Tgt Ion:252 Resp: 2651471

Ion	Ratio	Lower	Upper
252	100		
253	22.3	22.1	33.1
125	11.0	14.2	21.2#

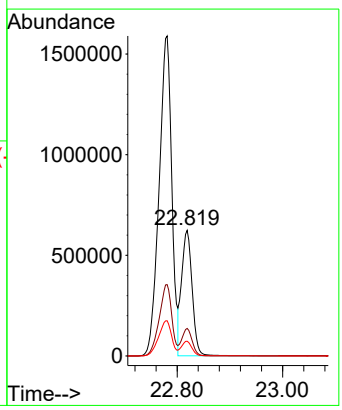


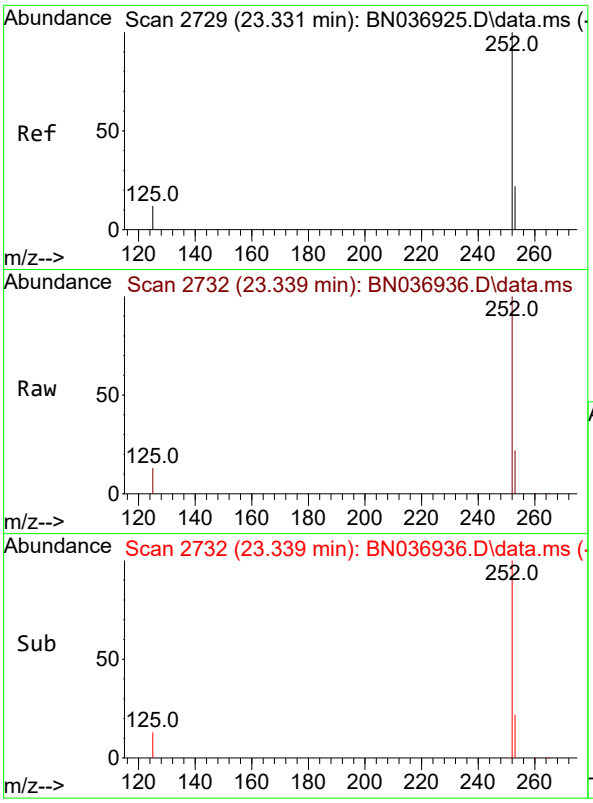


#38
Benzo(k)fluoranthene
Concen: 45.004 ng
RT: 22.819 min Scan# 2554
Delta R.T. 0.012 min
Lab File: BN036936.D
Acq: 29 Apr 2025 13:05

Tgt Ion:252 Resp: 864365

Ion	Ratio	Lower	Upper
252	100		
253	21.9	22.8	34.2#
125	11.7	14.2	21.2#



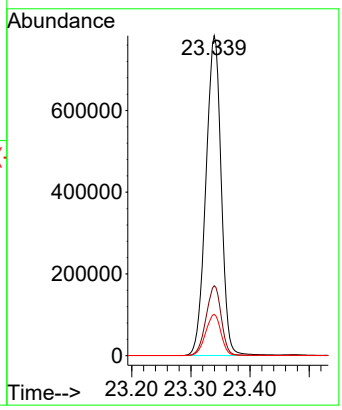


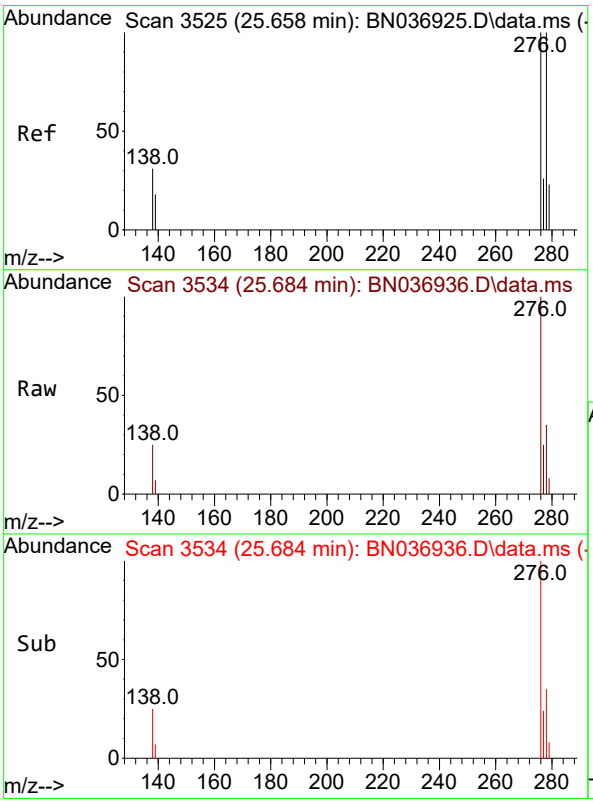
#39
Benzo(a)pyrene
Concen: 89.656 ng
RT: 23.339 min Scan# 2
Delta R.T. 0.009 min
Lab File: BN036936.D
Acq: 29 Apr 2025 13:05

Instrument :
BNA_N
ClientSampleId :
38072-010925

Tgt Ion:252 Resp: 1407542

Ion	Ratio	Lower	Upper
252	100		
253	21.9	25.9	38.9#
125	12.9	17.4	26.0#

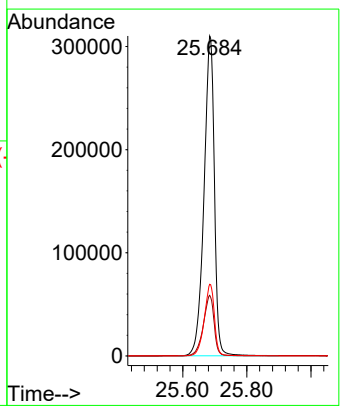


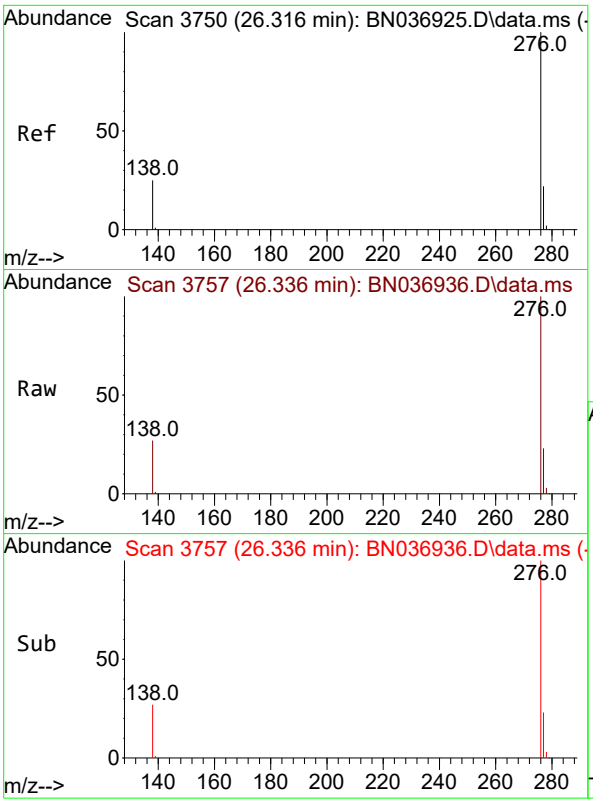


#40
Dibenzo(a,h)anthracene
Concen: 47.928 ng
RT: 25.684 min Scan# 3534
Delta R.T. 0.026 min
Lab File: BN036936.D
Acq: 29 Apr 2025 13:05

Tgt Ion:278 Resp: 699662

Ion	Ratio	Lower	Upper
278	100		
139	19.0	17.4	26.2
279	22.4	24.9	37.3#



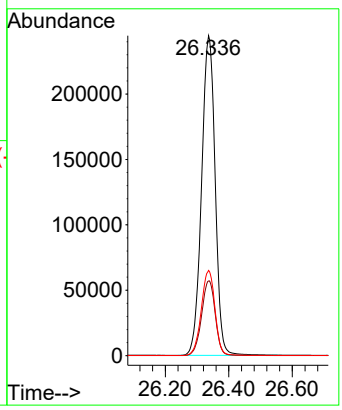


#41
Benzo(g,h,i)perylene
Concen: 44.737 ng
RT: 26.336 min Scan# 3
Delta R.T. 0.020 min
Lab File: BN036936.D
Acq: 29 Apr 2025 13:05

Instrument :
BNA_N
ClientSampleId :
38072-010925

Tgt Ion:276 Resp: 724777

Ion	Ratio	Lower	Upper
276	100		
277	23.4	20.2	30.2
138	26.7	21.9	32.9



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

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	04/21/25
Project:	NJ Waste Water PT	Date Received:	04/23/25
Client Sample ID:	38072-010925DL	SDG No.:	Q1870
Lab Sample ID:	Q1870-01DL	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group5
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
BN036937.D	5	04/24/25 12:05	04/29/25 13:41	PB167728

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
208-96-8	Acenaphthylene	240	ED	0.19	0.50	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.42		20 - 139	104%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.44		30 - 150	110%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.42		27 - 154	105%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.41		25 - 149	101%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.35		54 - 175	88%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	2660	7.633			
1146-65-2	Naphthalene-d8	7270	10.404			
15067-26-2	Acenaphthene-d10	4170	14.277			
1517-22-2	Phenanthrene-d10	8000	17.021			
1719-03-5	Chrysene-d12	7790	21.216			
1520-96-3	Perylene-d12	5960	23.427			

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\BN042925\
Data File : BN036937.D
Acq On : 29 Apr 2025 13:41
Operator : RC/JU
Sample : Q1870-01DL 5X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
38072-010925DL

Quant Time: Apr 29 14:14:18 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:35:03 2025
Response via : Initial Calibration

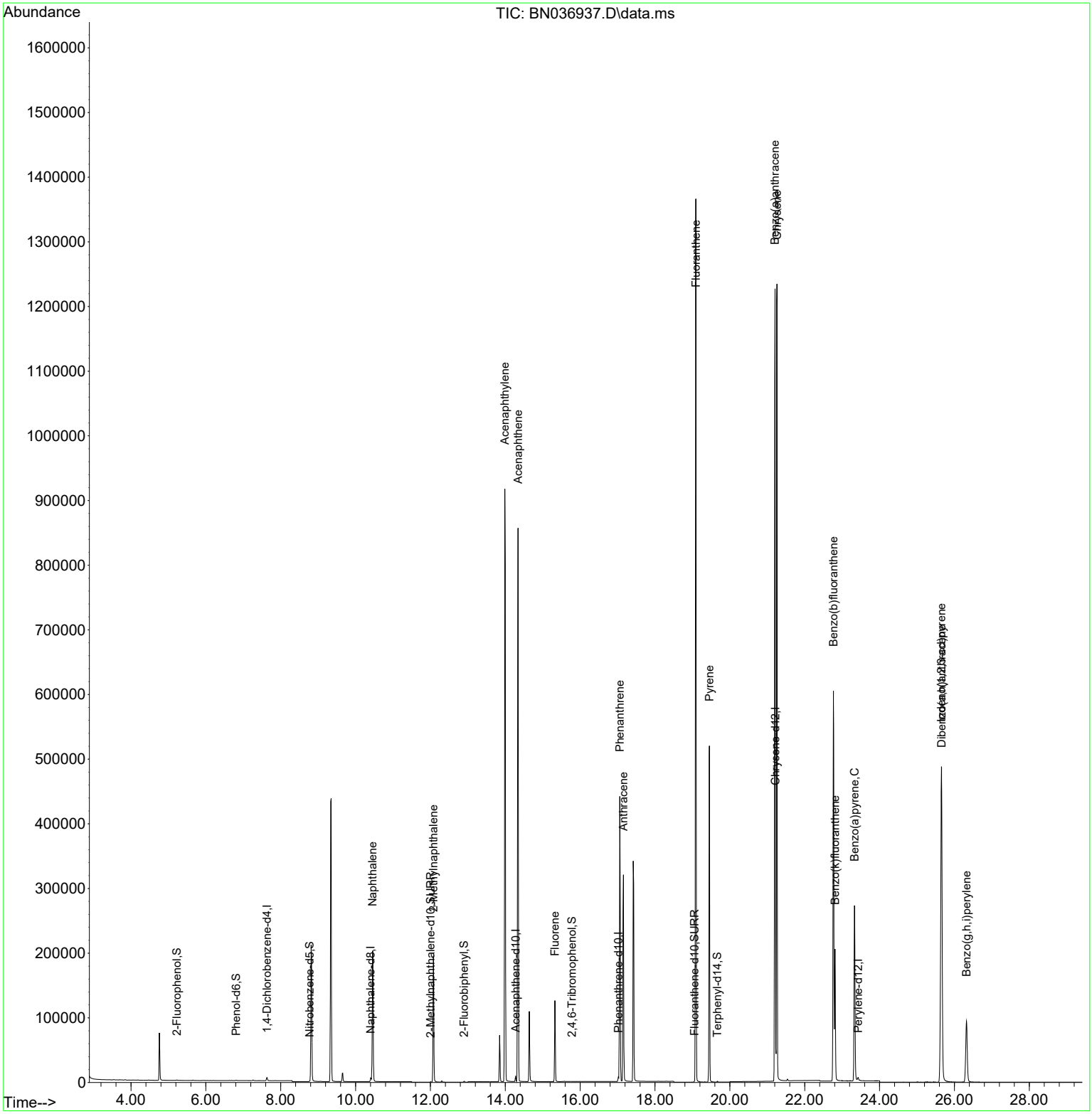
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.633	152	2660	0.400	ng		0.00
7) Naphthalene-d8	10.404	136	7273	0.400	ng		#-0.01
13) Acenaphthene-d10	14.277	164	4170	0.400	ng		0.00
19) Phenanthrene-d10	17.021	188	7996	0.400	ng		0.00
29) Chrysene-d12	21.216	240	7787	0.400	ng		0.00
35) Perylene-d12	23.427	264	5957	0.400	ng		# 0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.228	112	484	0.071	ng		0.00
5) Phenol-d6	6.809	99	596	0.071	ng		0.00
8) Nitrobenzene-d5	8.771	82	638	0.084	ng		-0.01
11) 2-Methylnaphthalene-d10	12.006	152	840	0.083	ng		0.00
14) 2,4,6-Tribromophenol	15.780	330	80	0.043	ng		0.01
15) 2-Fluorobiphenyl	12.899	172	1634	0.081	ng		0.00
27) Fluoranthene-d10	19.059	212	1819	0.088	ng		0.00
31) Terphenyl-d14	19.667	244	1294	0.070	ng		0.00
Target Compounds							Qvalue
9) Naphthalene	10.458	128	245146	11.581	ng		97
12) 2-Methylnaphthalene	12.082	142	135057	9.870	ng		97
16) Acenaphthylene	13.989	152	983461	48.255	ng		99
17) Acenaphthene	14.342	154	392189	29.289	ng		97
18) Fluorene	15.325	166	71886	4.105	ng		99
25) Phenanthrene	17.058	178	419564	15.898	ng		100
26) Anthracene	17.158	178	344832	14.445	ng		100
28) Fluoranthene	19.091	202	1164278	39.363	ng		99
30) Pyrene	19.454	202	435369	11.609	ng		99
32) Benzo(a)anthracene	21.207	228	1030872	35.945	ng		99
33) Chrysene	21.260	228	1043139	33.727	ng		97
36) Indeno(1,2,3-cd)pyrene	25.652	276	739011	30.377	ng		97
37) Benzo(b)fluoranthene	22.766	252	710014	28.346	ng	#	88
38) Benzo(k)fluoranthene	22.810	252	229443	9.109	ng	#	87
39) Benzo(a)pyrene	23.331	252	364004	17.678	ng	#	81
40) Dibenzo(a,h)anthracene	25.661	278	178329	9.314	ng	#	90
41) Benzo(g,h,i)perylene	26.322	276	179719	8.458	ng		98

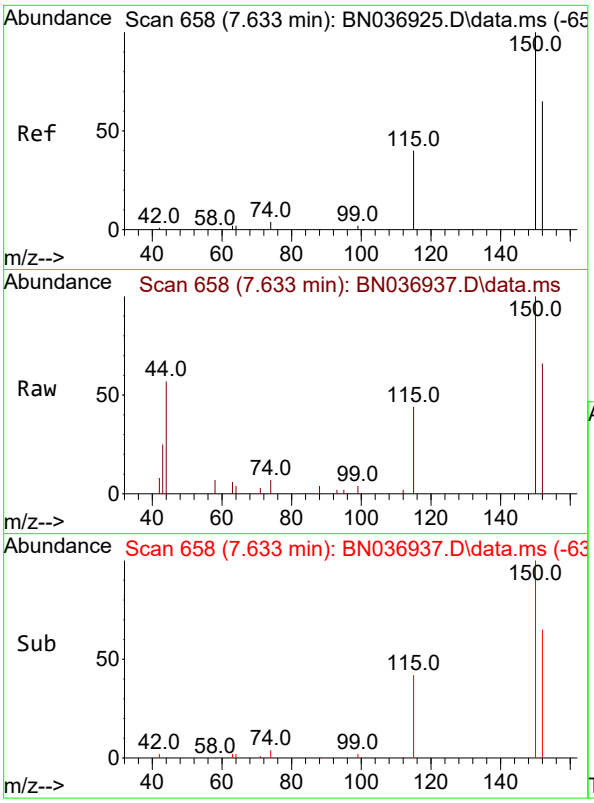
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042925\
Data File : BN036937.D
Acq On : 29 Apr 2025 13:41
Operator : RC/JU
Sample : Q1870-01DL 5X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
38072-010925DL

Quant Time: Apr 29 14:14:18 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:35:03 2025
Response via : Initial Calibration



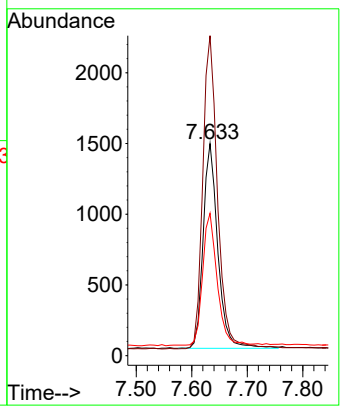


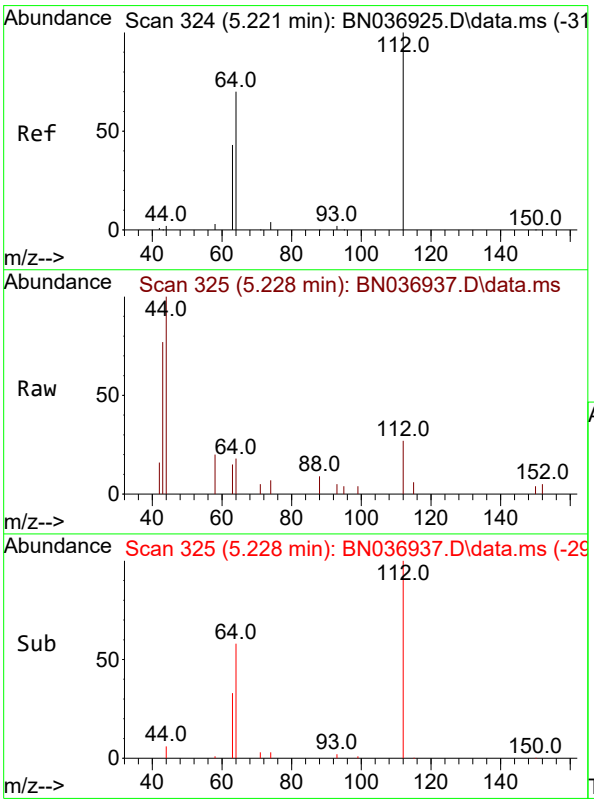
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.633 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN036937.D
Acq: 29 Apr 2025 13:41

Instrument :
BNA_N
ClientSampleId :
38072-010925DL

Tgt Ion:152 Resp: 2660

Ion	Ratio	Lower	Upper
152	100		
150	150.8	121.1	181.7
115	67.1	51.8	77.6

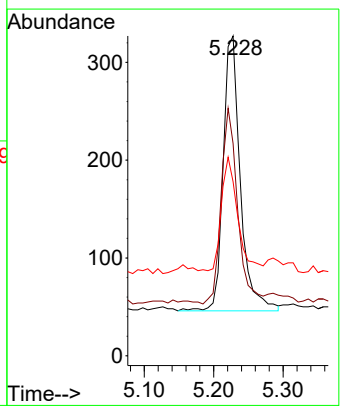


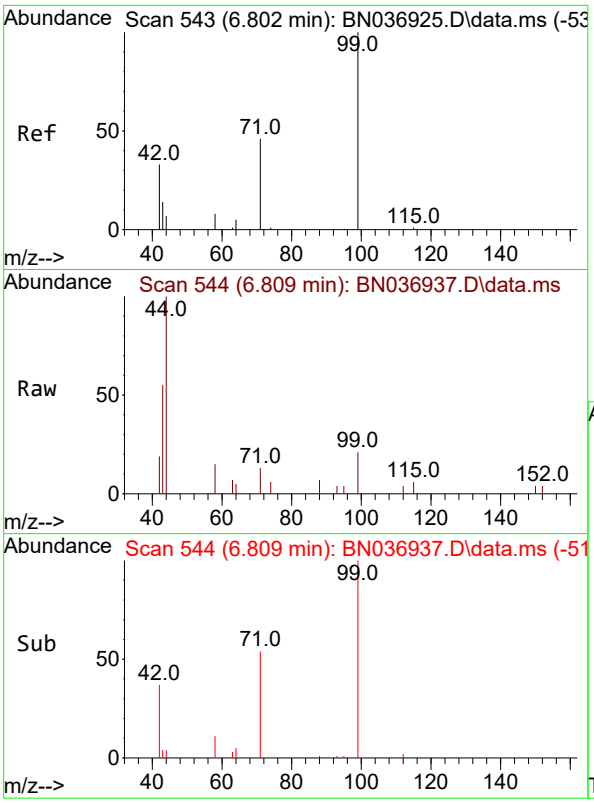


#4
2-Fluorophenol
Concen: 0.071 ng
RT: 5.228 min Scan# 325
Delta R.T. 0.007 min
Lab File: BN036937.D
Acq: 29 Apr 2025 13:41

Tgt Ion:112 Resp: 484

Ion	Ratio	Lower	Upper
112	100		
64	68.4	55.7	83.5
63	42.4	33.9	50.9



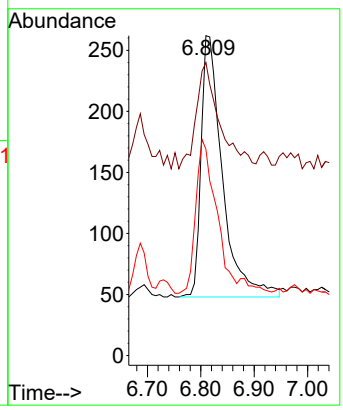


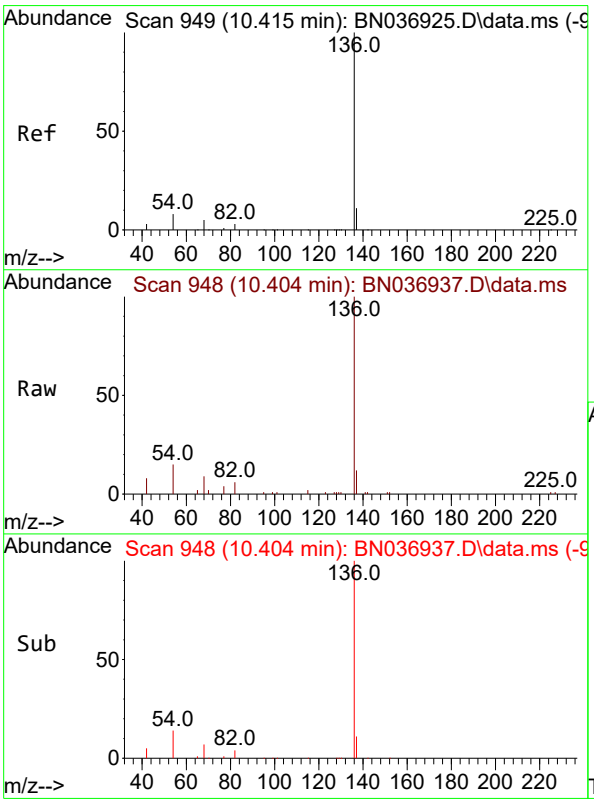
#5
Phenol-d6
Concen: 0.071 ng
RT: 6.809 min Scan# 54
Delta R.T. 0.007 min
Lab File: BN036937.D
Acq: 29 Apr 2025 13:41

Instrument :
BNA_N
ClientSampleId :
38072-010925DL

Tgt Ion: 99 Resp: 596

Ion	Ratio	Lower	Upper
99	100		
42	44.6	29.6	44.4#
71	56.0	36.0	54.0#

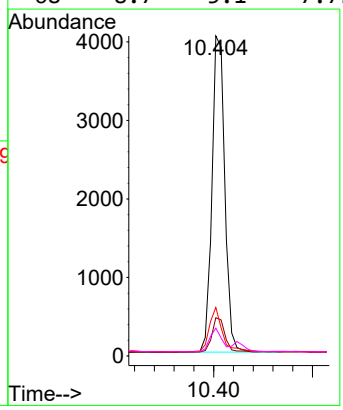


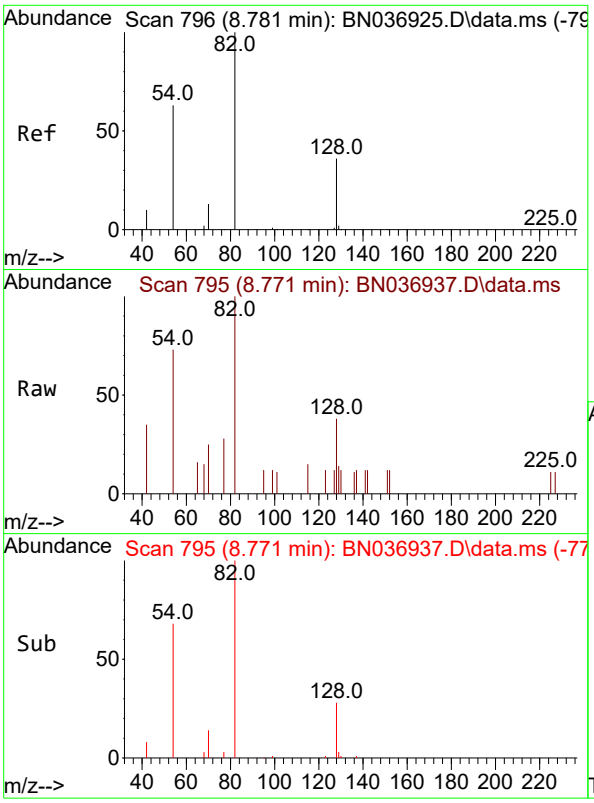


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.404 min Scan# 948
Delta R.T. -0.011 min
Lab File: BN036937.D
Acq: 29 Apr 2025 13:41

Tgt Ion:136 Resp: 7273

Ion	Ratio	Lower	Upper
136	100		
137	11.9	9.7	14.5
54	15.1	8.0	12.0#
68	8.7	5.1	7.7#



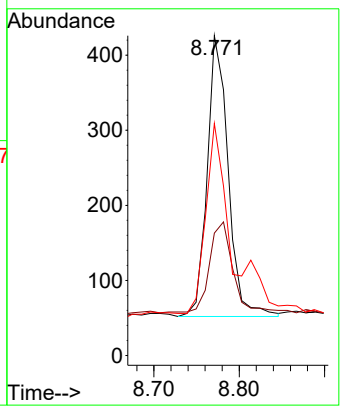


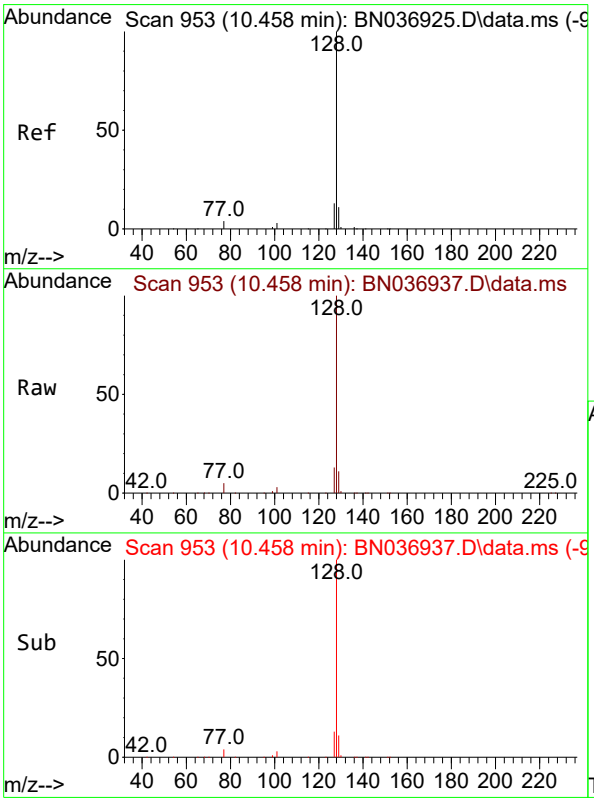
#8
Nitrobenzene-d5
Concen: 0.084 ng
RT: 8.771 min Scan# 7
Delta R.T. -0.011 min
Lab File: BN036937.D
Acq: 29 Apr 2025 13:41

Instrument :
BNA_N
ClientSampleId :
38072-010925DL

Tgt Ion: 82 Resp: 638

Ion	Ratio	Lower	Upper
82	100		
128	38.3	30.7	46.1
54	72.5	52.1	78.1

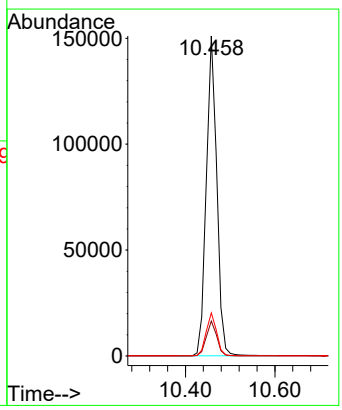


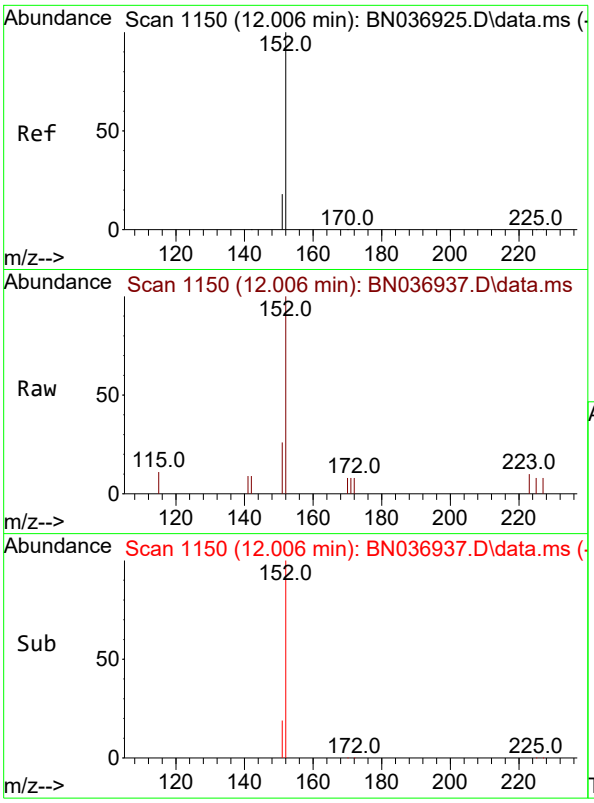


#9
Naphthalene
Concen: 11.581 ng
RT: 10.458 min Scan# 953
Delta R.T. 0.000 min
Lab File: BN036937.D
Acq: 29 Apr 2025 13:41

Tgt Ion:128 Resp: 245146

Ion	Ratio	Lower	Upper
128	100		
129	10.9	9.8	14.6
127	13.5	11.4	17.2



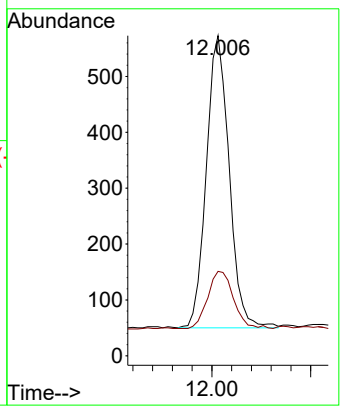


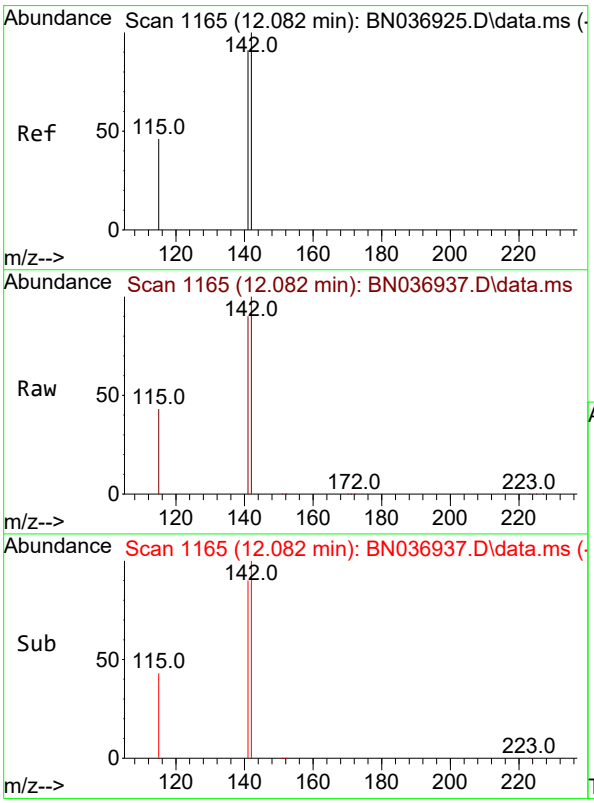
#11
2-Methylnaphthalene-d10
Concen: 0.083 ng
RT: 12.006 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN036937.D
Acq: 29 Apr 2025 13:41

Instrument :
BNA_N
ClientSampleId :
38072-010925DL

Tgt Ion:152 Resp: 840

Ion	Ratio	Lower	Upper
152	100		
151	21.9	16.9	25.3

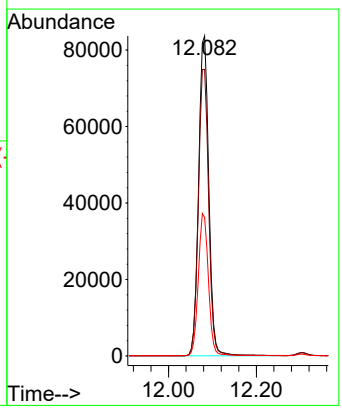


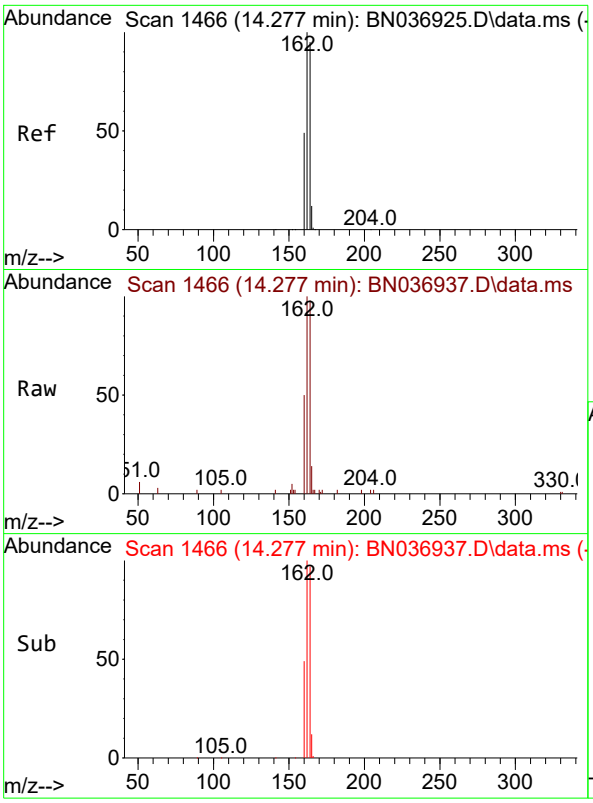


#12
2-Methylnaphthalene
Concen: 9.870 ng
RT: 12.082 min Scan# 1165
Delta R.T. 0.000 min
Lab File: BN036937.D
Acq: 29 Apr 2025 13:41

Tgt Ion:142 Resp: 135057

Ion	Ratio	Lower	Upper
142	100		
141	89.5	72.8	109.2
115	43.3	38.2	57.4



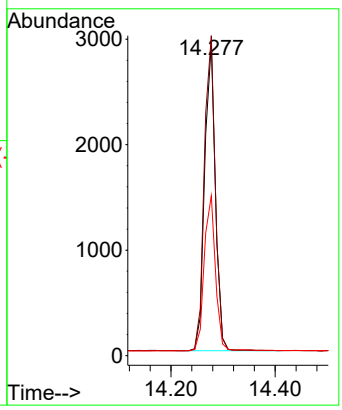


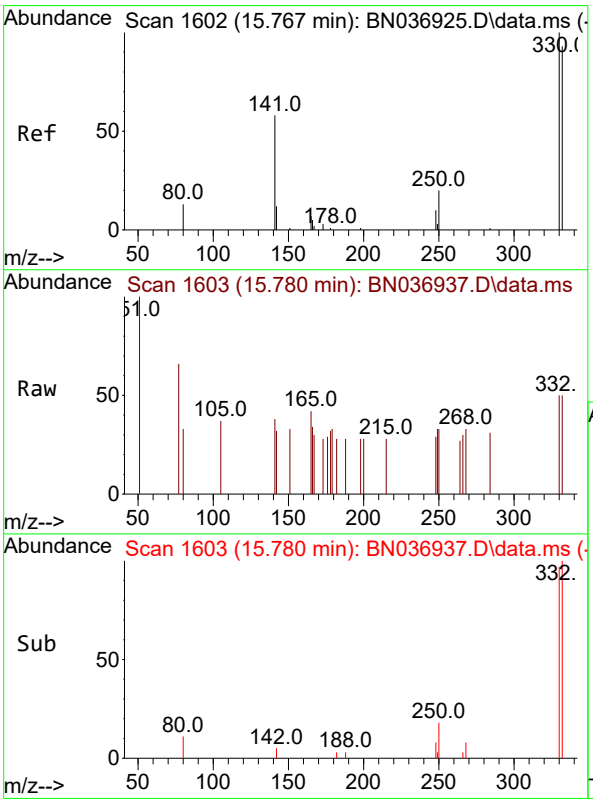
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.277 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036937.D
Acq: 29 Apr 2025 13:41

Instrument :
BNA_N
ClientSampleId :
38072-010925DL

Tgt Ion:164 Resp: 4170

Ion	Ratio	Lower	Upper
164	100		
162	102.5	83.8	125.8
160	51.2	42.0	63.0

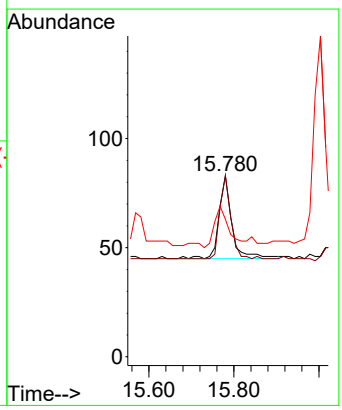


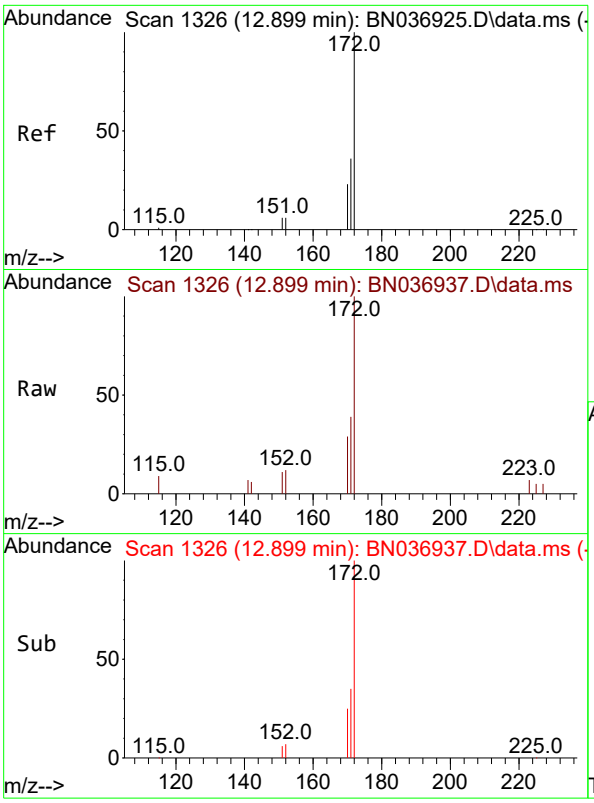


#14
2,4,6-Tribromophenol
Concen: 0.043 ng
RT: 15.780 min Scan# 1603
Delta R.T. 0.012 min
Lab File: BN036937.D
Acq: 29 Apr 2025 13:41

Tgt Ion:330 Resp: 80

Ion	Ratio	Lower	Upper
330	100		
332	86.3	76.3	114.5
141	55.0	45.4	68.2



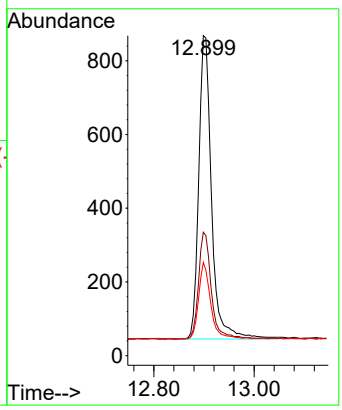


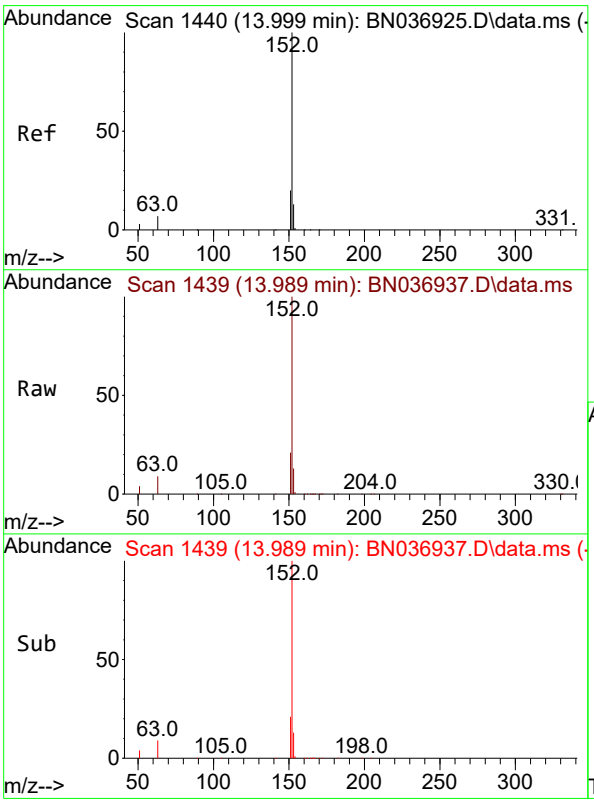
#15
2-Fluorobiphenyl
Concen: 0.081 ng
RT: 12.899 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036937.D
Acq: 29 Apr 2025 13:41

Instrument :
BNA_N
ClientSampleId :
38072-010925DL

Tgt Ion:172 Resp: 1634

Ion	Ratio	Lower	Upper
172	100		
171	38.6	29.4	44.0
170	29.1	19.4	29.0#

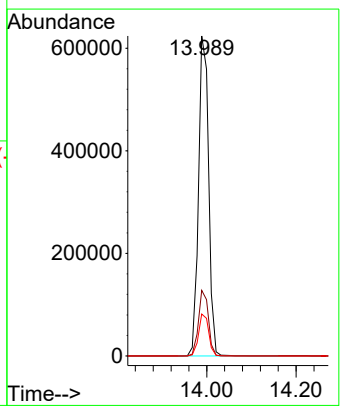


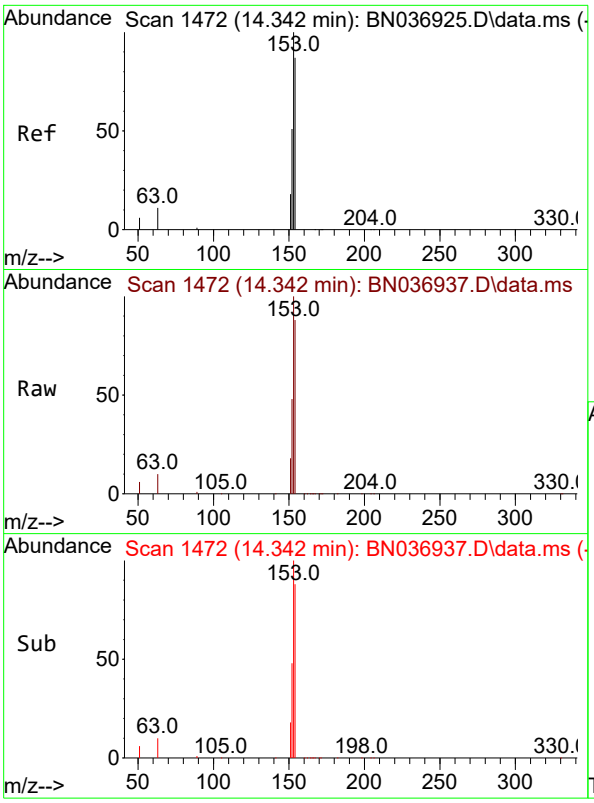


#16
Acenaphthylene
Concen: 48.255 ng
RT: 13.989 min Scan# 1439
Delta R.T. -0.011 min
Lab File: BN036937.D
Acq: 29 Apr 2025 13:41

Tgt Ion:152 Resp: 983461

Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.0	24.0
153	13.1	10.2	15.2



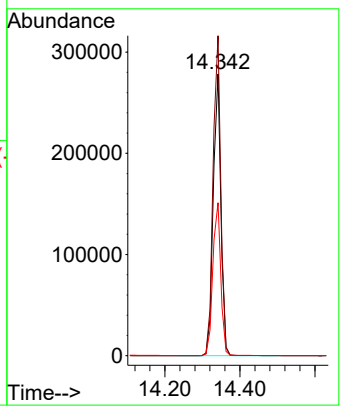


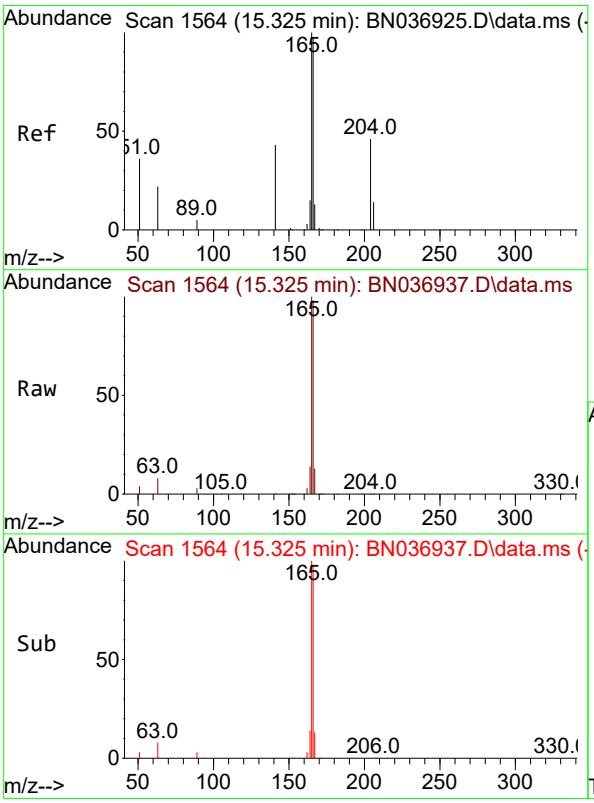
#17
Acenaphthene
Concen: 29.289 ng
RT: 14.342 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036937.D
Acq: 29 Apr 2025 13:41

Instrument :
BNA_N
ClientSampleId :
38072-010925DL

Tgt Ion:154 Resp: 392189

Ion	Ratio	Lower	Upper
154	100		
153	115.3	93.4	140.2
152	56.6	49.5	74.3

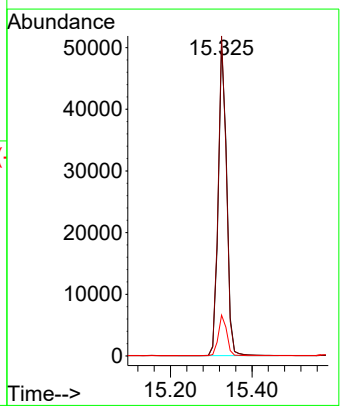


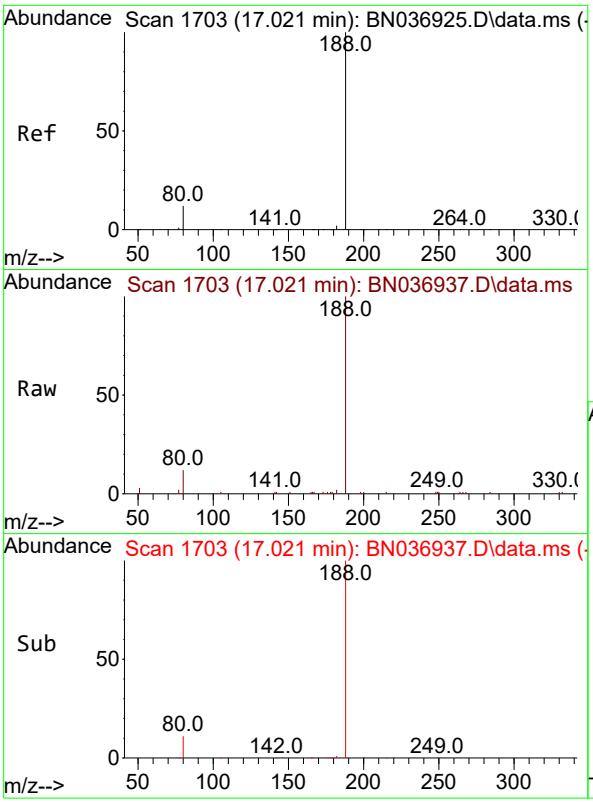


#18
Fluorene
Concen: 4.105 ng
RT: 15.325 min Scan# 1564
Delta R.T. 0.000 min
Lab File: BN036937.D
Acq: 29 Apr 2025 13:41

Tgt Ion:166 Resp: 71886

Ion	Ratio	Lower	Upper
166	100		
165	100.5	80.8	121.2
167	13.1	10.8	16.2



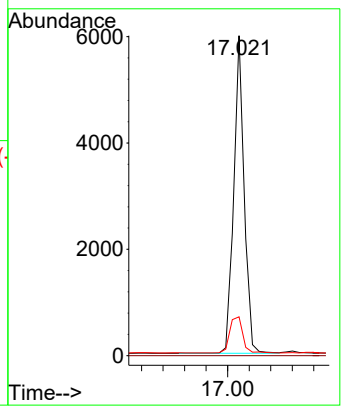


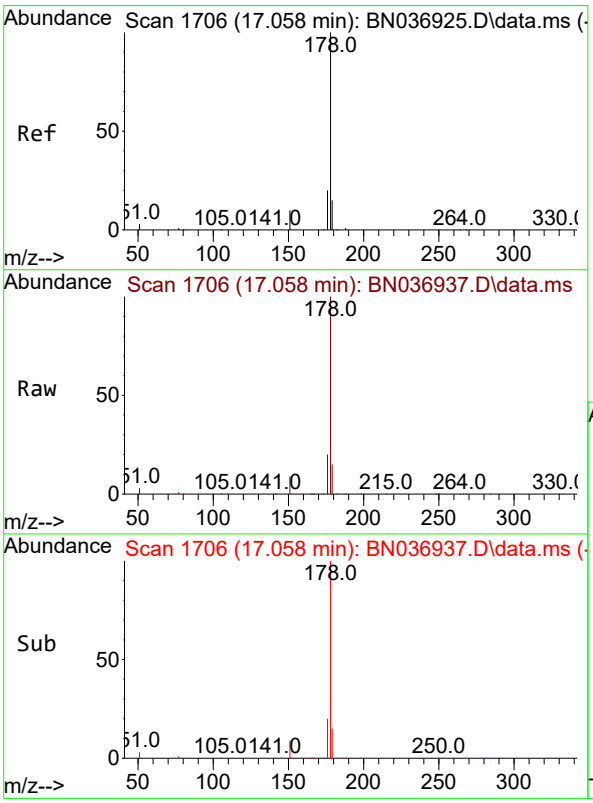
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.021 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036937.D
Acq: 29 Apr 2025 13:41

Instrument :
BNA_N
ClientSampleId :
38072-010925DL

Tgt Ion:188 Resp: 7996

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.2	10.7	16.1

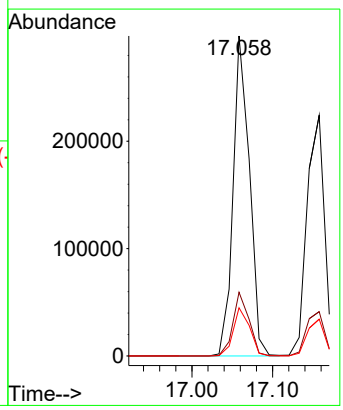


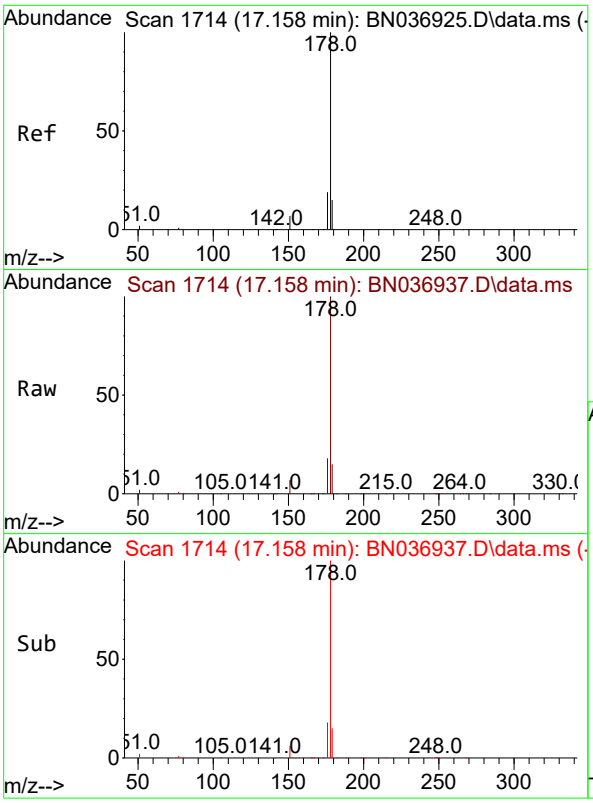


#25
Phenanthrene
Concen: 15.898 ng
RT: 17.058 min Scan# 1706
Delta R.T. 0.000 min
Lab File: BN036937.D
Acq: 29 Apr 2025 13:41

Tgt Ion:178 Resp: 419564

Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.7	23.5
179	15.2	12.4	18.6



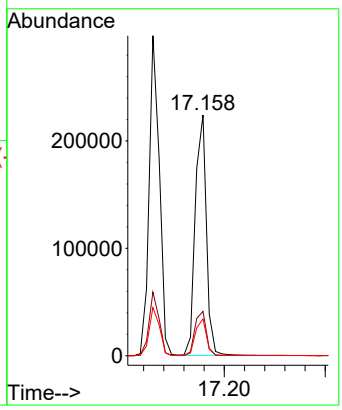


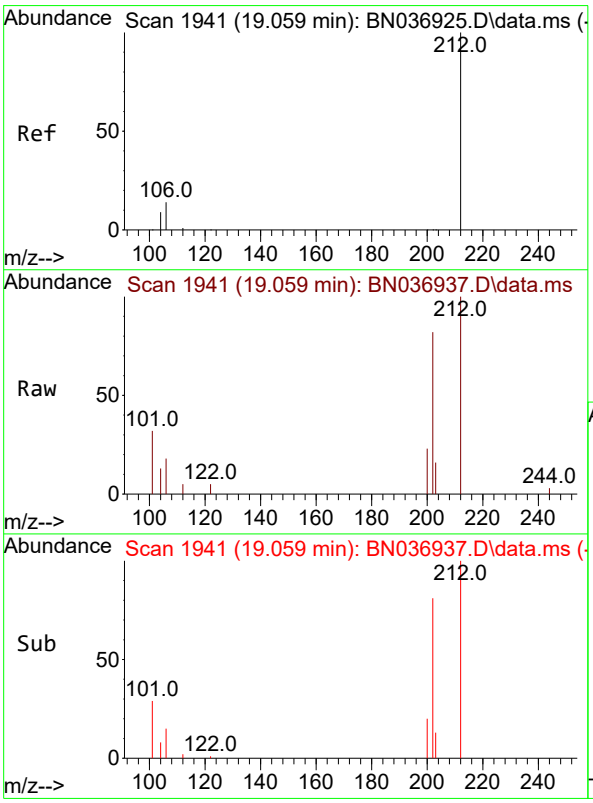
#26
Anthracene
Concen: 14.445 ng
RT: 17.158 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036937.D
Acq: 29 Apr 2025 13:41

Instrument :
BNA_N
ClientSampleId :
38072-010925DL

Tgt Ion:178 Resp: 344832

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.3	22.9
179	15.1	12.1	18.1

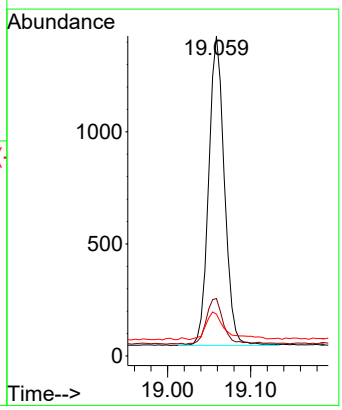


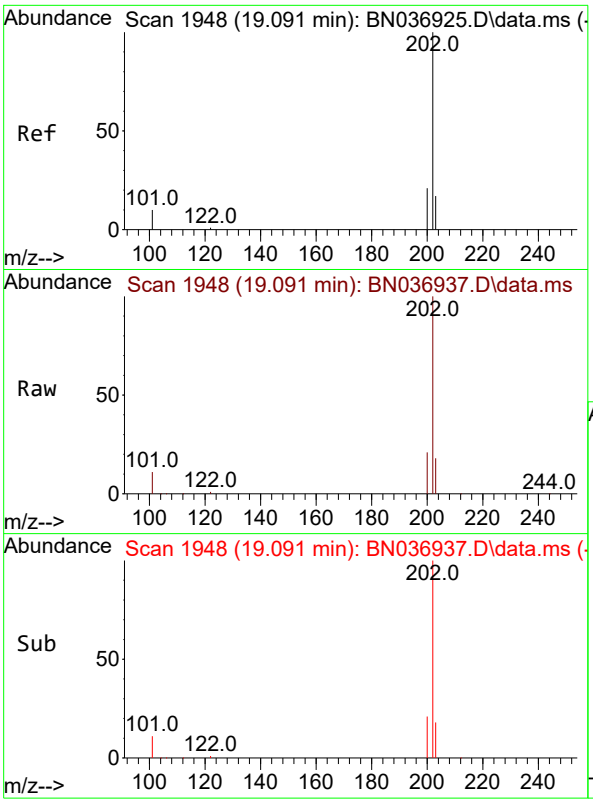


#27
Fluoranthene-d10
Concen: 0.088 ng
RT: 19.059 min Scan# 1941
Delta R.T. 0.000 min
Lab File: BN036937.D
Acq: 29 Apr 2025 13:41

Tgt Ion:212 Resp: 1819

Ion	Ratio	Lower	Upper
212	100		
106	15.9	11.6	17.4
104	11.4	7.0	10.4#



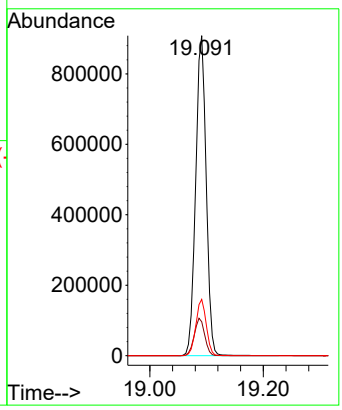


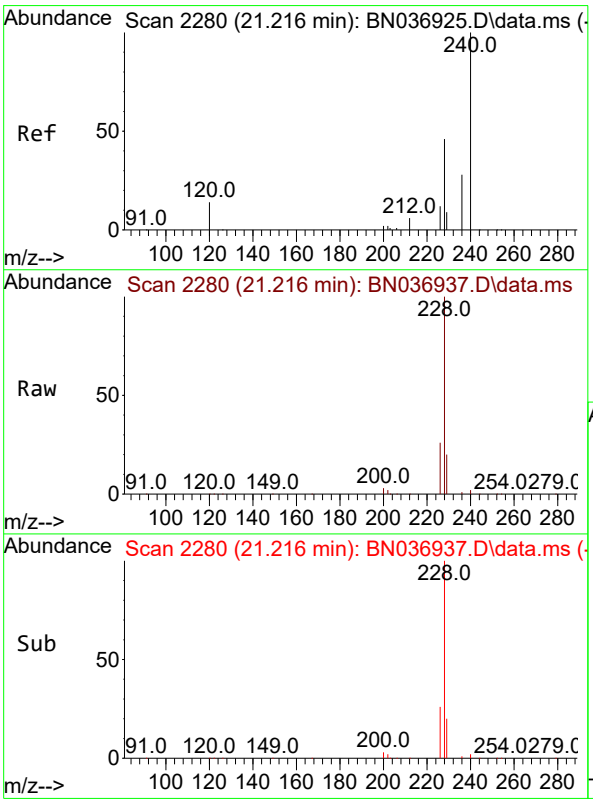
#28
Fluoranthene
Concen: 39.363 ng
RT: 19.091 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036937.D
Acq: 29 Apr 2025 13:41

Instrument :
BNA_N
ClientSampleId :
38072-010925DL

Tgt Ion:202 Resp: 1164278

Ion	Ratio	Lower	Upper
202	100		
101	11.6	8.5	12.7
203	17.4	13.7	20.5

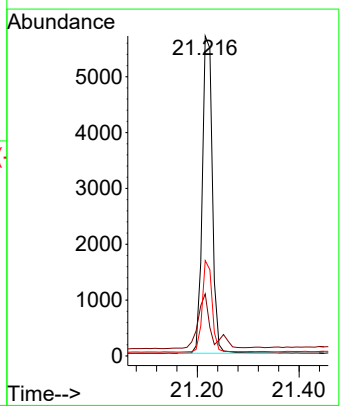


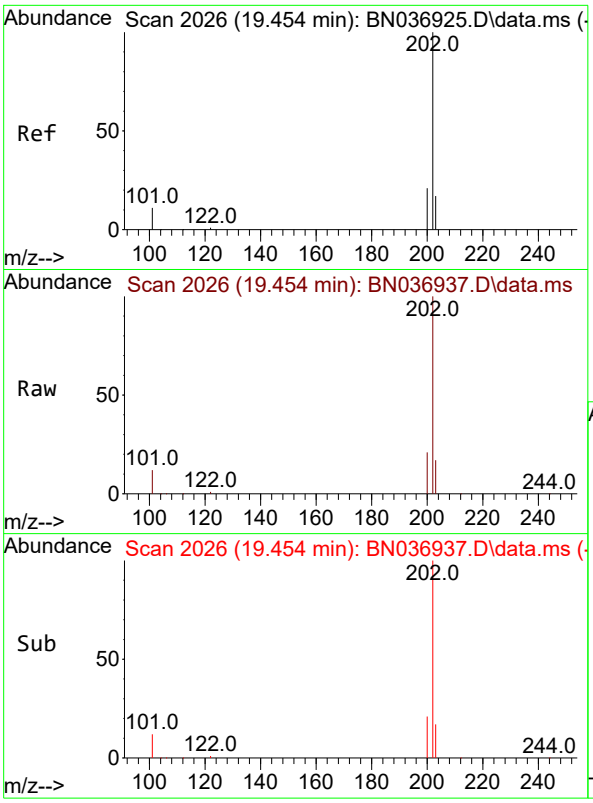


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.216 min Scan# 2280
Delta R.T. 0.000 min
Lab File: BN036937.D
Acq: 29 Apr 2025 13:41

Tgt Ion:240 Resp: 7787

Ion	Ratio	Lower	Upper
240	100		
120	19.4	14.1	21.1
236	29.8	23.8	35.8



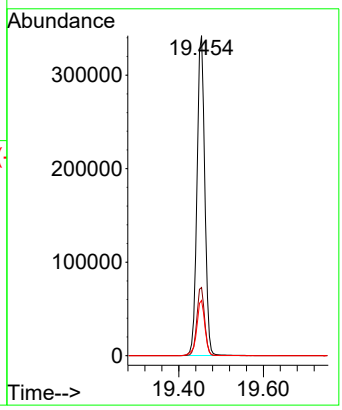


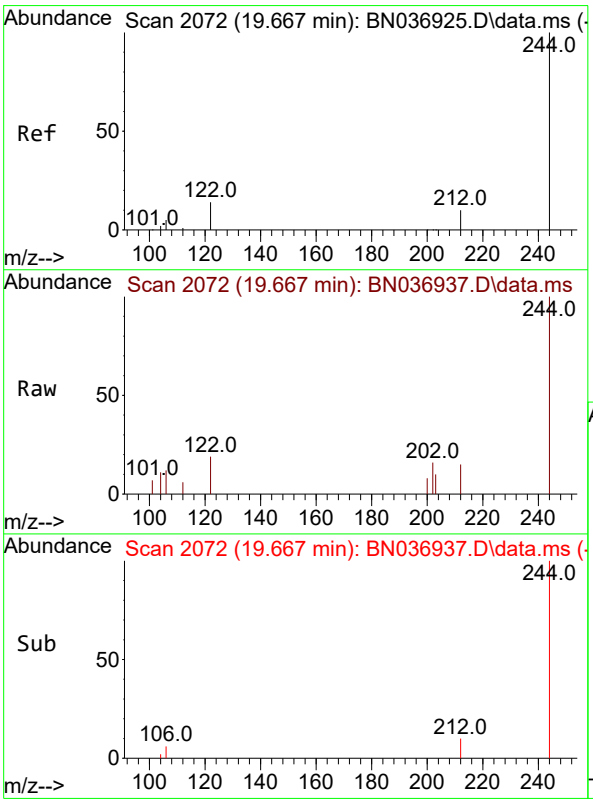
#30
Pyrene
Concen: 11.609 ng
RT: 19.454 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036937.D
Acq: 29 Apr 2025 13:41

Instrument :
BNA_N
ClientSampleId :
38072-010925DL

Tgt Ion:202 Resp: 435369

Ion	Ratio	Lower	Upper
202	100		
200	21.5	17.0	25.6
203	18.1	14.0	21.0

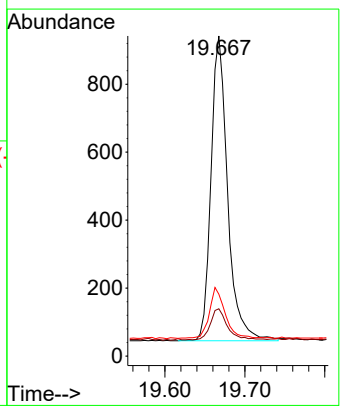


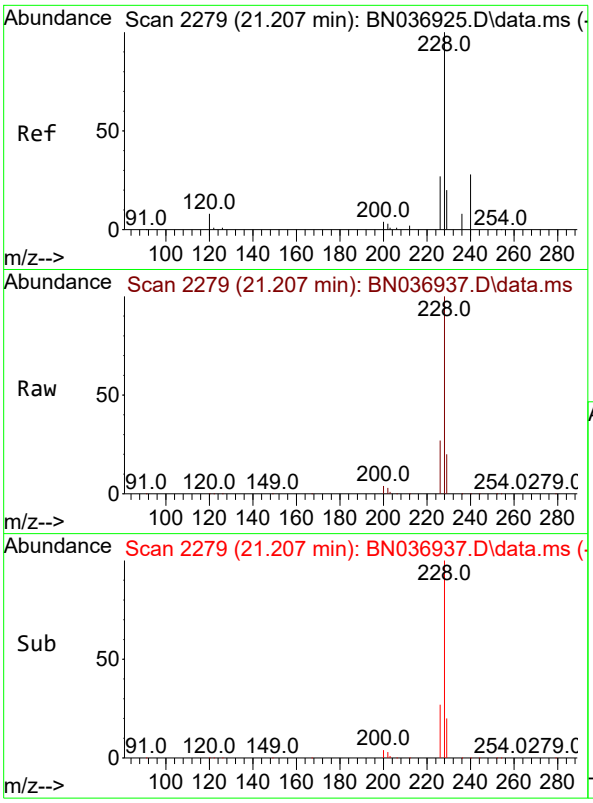


#31
Terphenyl-d14
Concen: 0.070 ng
RT: 19.667 min Scan# 2072
Delta R.T. 0.000 min
Lab File: BN036937.D
Acq: 29 Apr 2025 13:41

Tgt Ion:244 Resp: 1294

Ion	Ratio	Lower	Upper
244	100		
212	14.8	9.6	14.4#
122	19.3	12.7	19.1#



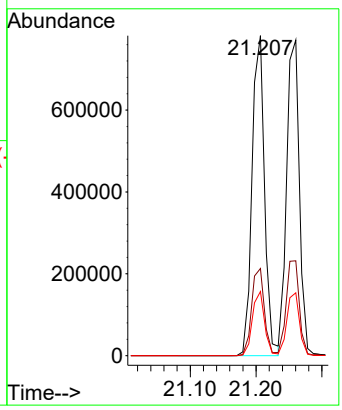


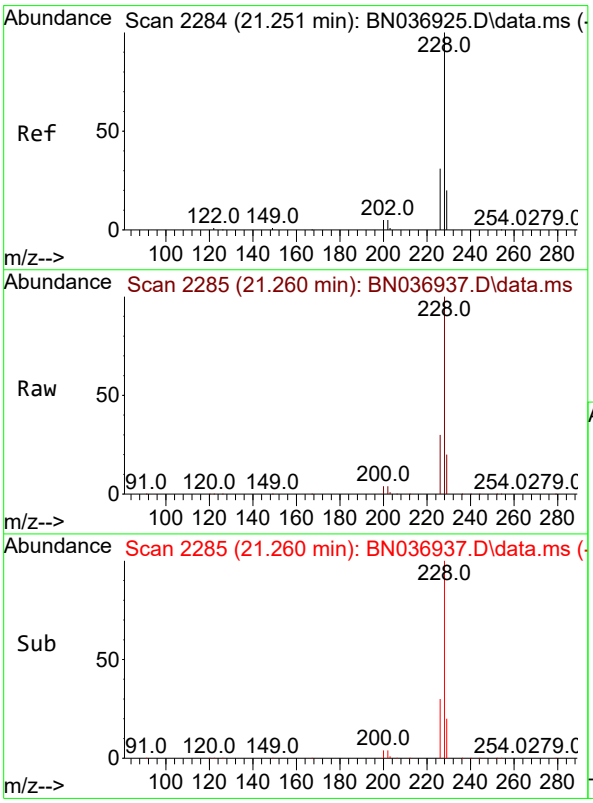
#32
Benzo(a)anthracene
Concen: 35.945 ng
RT: 21.207 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036937.D
Acq: 29 Apr 2025 13:41

Instrument :
BNA_N
ClientSampleId :
38072-010925DL

Tgt Ion:228 Resp: 1030872

Ion	Ratio	Lower	Upper
228	100		
226	27.3	22.2	33.4
229	20.0	16.4	24.6

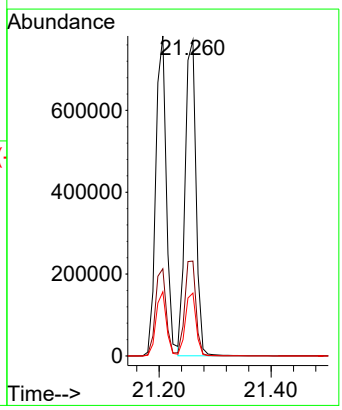


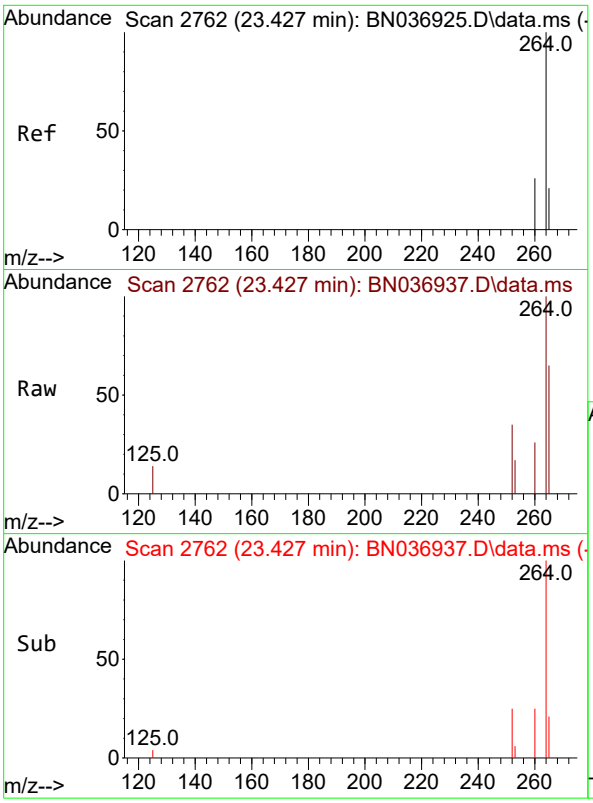


#33
Chrysene
Concen: 33.727 ng
RT: 21.260 min Scan# 2285
Delta R.T. 0.009 min
Lab File: BN036937.D
Acq: 29 Apr 2025 13:41

Tgt Ion:228 Resp: 1043139

Ion	Ratio	Lower	Upper
228	100		
226	30.1	25.5	38.3
229	19.9	16.5	24.7



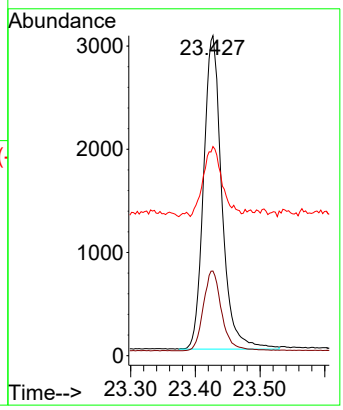


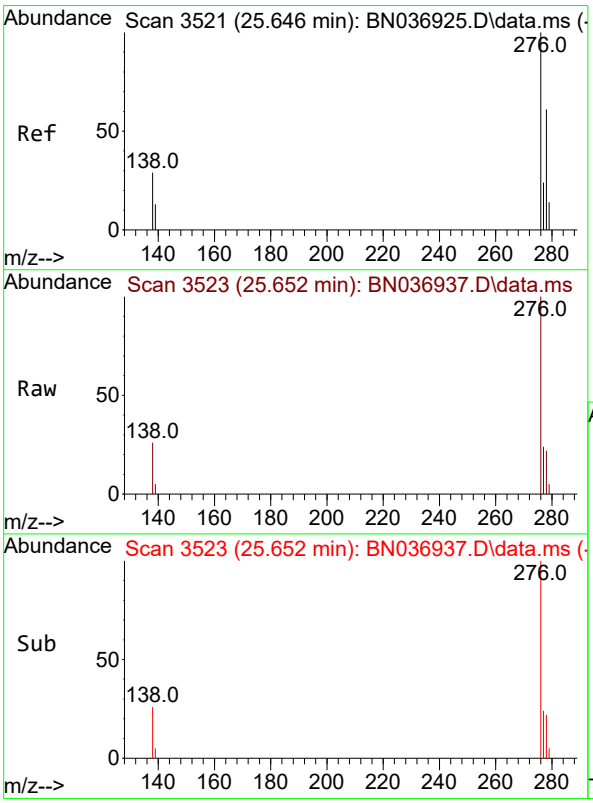
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.427 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036937.D
Acq: 29 Apr 2025 13:41

Instrument :
BNA_N
ClientSampleId :
38072-010925DL

Tgt Ion:264 Resp: 5957

Ion	Ratio	Lower	Upper
264	100		
260	26.5	22.2	33.2
265	65.4	65.8	98.6#

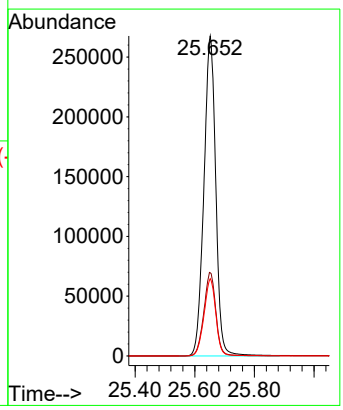


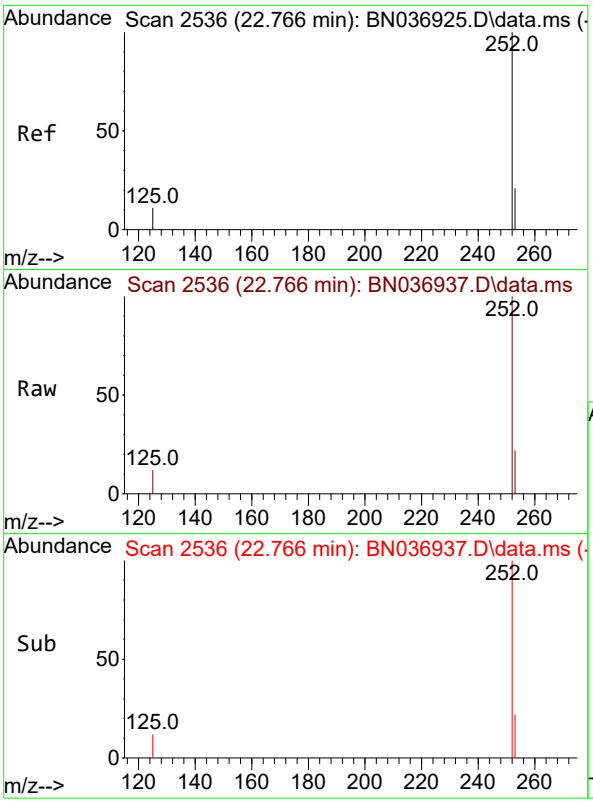


#36
Indeno(1,2,3-cd)pyrene
Concen: 30.377 ng
RT: 25.652 min Scan# 3523
Delta R.T. 0.006 min
Lab File: BN036937.D
Acq: 29 Apr 2025 13:41

Tgt Ion:276 Resp: 739011

Ion	Ratio	Lower	Upper
276	100		
138	26.4	23.0	34.6
277	24.0	20.0	30.0



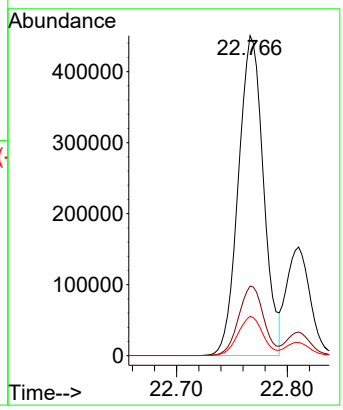


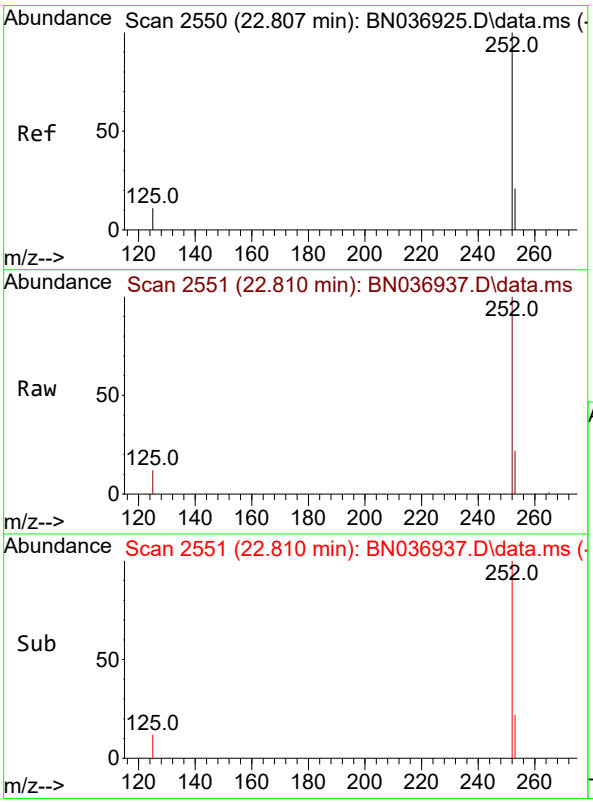
#37
Benzo(b)fluoranthene
Concen: 28.346 ng
RT: 22.766 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036937.D
Acq: 29 Apr 2025 13:41

Instrument :
BNA_N
ClientSampleId :
38072-010925DL

Tgt Ion:252 Resp: 710014

Ion	Ratio	Lower	Upper
252	100		
253	21.8	22.1	33.1#
125	12.3	14.2	21.2#

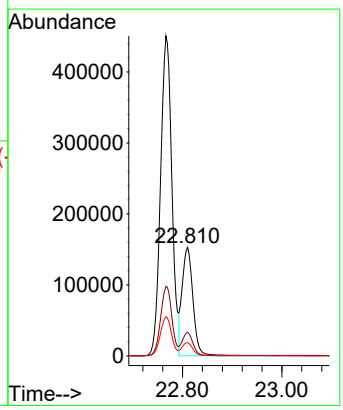


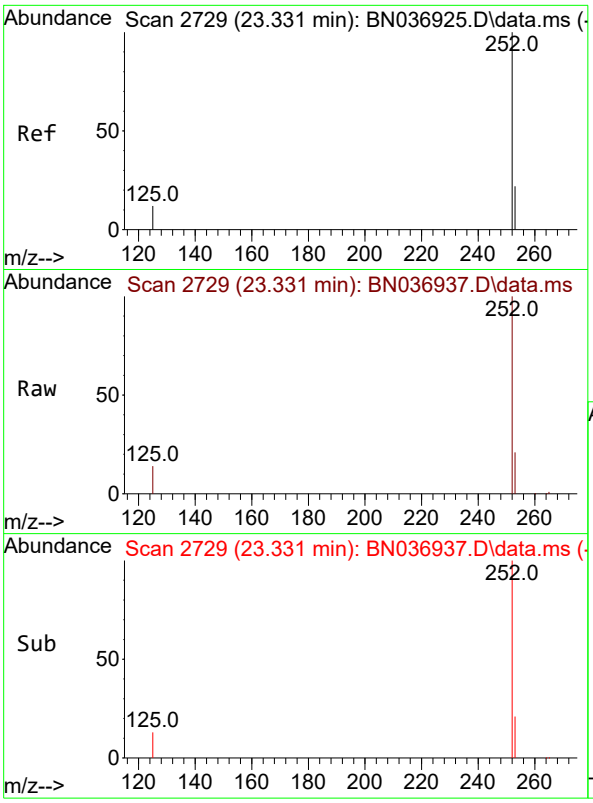


#38
Benzo(k)fluoranthene
Concen: 9.109 ng
RT: 22.810 min Scan# 2551
Delta R.T. 0.003 min
Lab File: BN036937.D
Acq: 29 Apr 2025 13:41

Tgt Ion:252 Resp: 229443

Ion	Ratio	Lower	Upper
252	100		
253	21.8	22.8	34.2#
125	12.3	14.2	21.2#



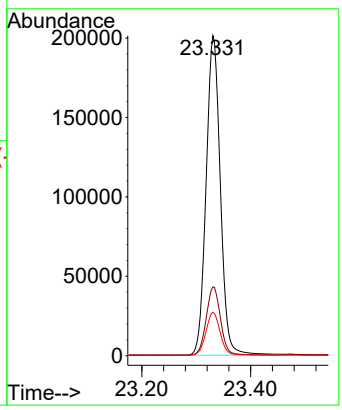


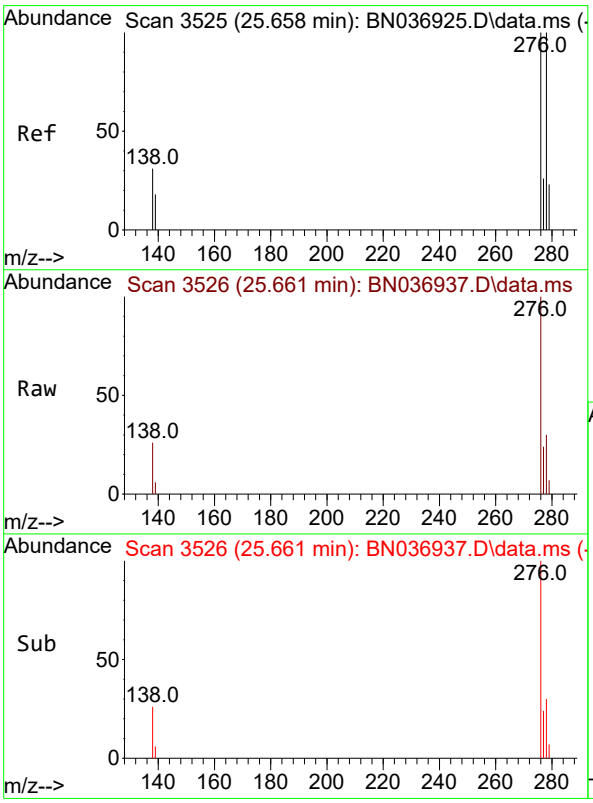
#39
Benzo(a)pyrene
Concen: 17.678 ng
RT: 23.331 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036937.D
Acq: 29 Apr 2025 13:41

Instrument :
BNA_N
ClientSampleId :
38072-010925DL

Tgt Ion:252 Resp: 364004

Ion	Ratio	Lower	Upper
252	100		
253	21.5	25.9	38.9#
125	13.5	17.4	26.0#

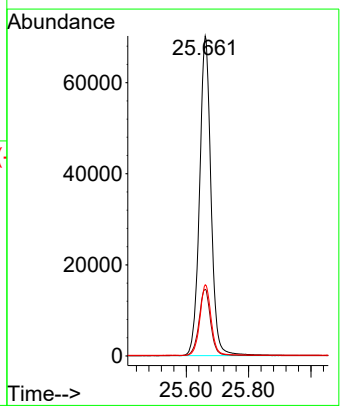


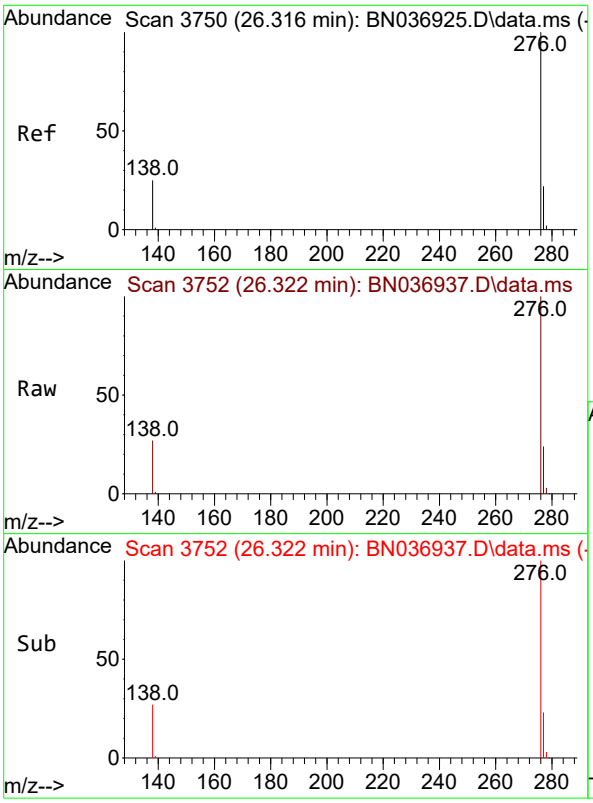


#40
Dibenzo(a,h)anthracene
Concen: 9.314 ng
RT: 25.661 min Scan# 3526
Delta R.T. 0.003 min
Lab File: BN036937.D
Acq: 29 Apr 2025 13:41

Tgt Ion:278 Resp: 178329

Ion	Ratio	Lower	Upper
278	100		
139	20.8	17.4	26.2
279	22.3	24.9	37.3#



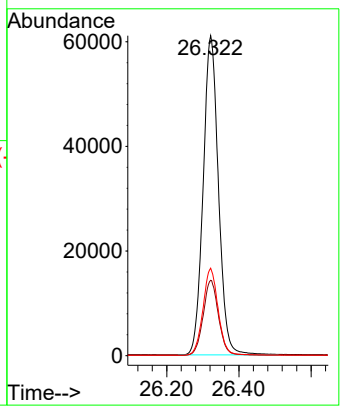


#41
Benzo(g,h,i)perylene
Concen: 8.458 ng
RT: 26.322 min Scan# 3
Delta R.T. 0.006 min
Lab File: BN036937.D
Acq: 29 Apr 2025 13:41

Instrument :
BNA_N
ClientSampleId :
38072-010925DL

Tgt Ion:276 Resp: 179719

Ion	Ratio	Lower	Upper
276	100		
277	23.6	20.2	30.2
138	27.3	21.9	32.9



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

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	04/21/25
Project:	NJ Waste Water PT	Date Received:	04/23/25
Client Sample ID:	38072-010925DL2	SDG No.:	Q1870
Lab Sample ID:	Q1870-01DL2	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group5
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
BN036938.D	50	04/24/25 12:05	04/29/25 14:17	PB167728

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
208-96-8	Acenaphthylene	230	D	1.90	5.00	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0	*	20 - 139	0%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0	*	30 - 150	0%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0	*	27 - 154	0%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0	*	25 - 149	0%	SPK: 0.4
1718-51-0	Terphenyl-d14	0	*	54 - 175	0%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	2430	7.633			
1146-65-2	Naphthalene-d8	6300	10.415			
15067-26-2	Acenaphthene-d10	3590	14.277			
1517-22-2	Phenanthrene-d10	7140	17.021			
1719-03-5	Chrysene-d12	6700	21.215			
1520-96-3	Perylene-d12	5500	23.43			

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\BN042925\
Data File : BN036938.D
Acq On : 29 Apr 2025 14:17
Operator : RC/JU
Sample : Q1870-01DL2 50X
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
38072-010925DL2

Quant Time: Apr 29 14:40:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:35:03 2025
Response via : Initial Calibration

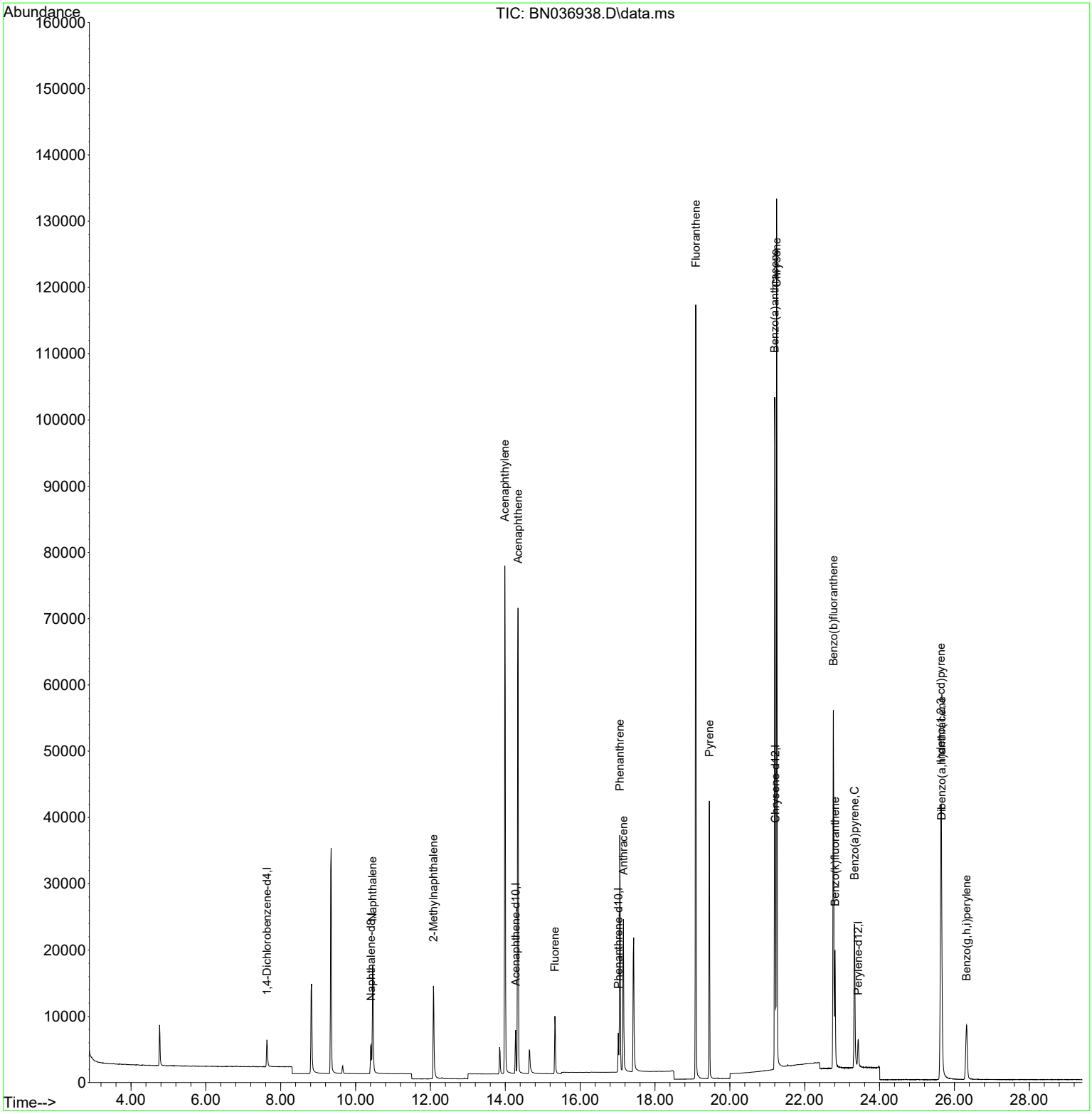
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.633	152	2432	0.400	ng		0.00
7) Naphthalene-d8	10.415	136	6295	0.400	ng		0.00
13) Acenaphthene-d10	14.277	164	3589	0.400	ng		0.00
19) Phenanthrene-d10	17.021	188	7137	0.400	ng		0.00
29) Chrysene-d12	21.215	240	6695	0.400	ng	#	0.00
35) Perylene-d12	23.430	264	5501	0.400	ng	#	0.00
System Monitoring Compounds							
4) 2-Fluorophenol	0.000	112	0d	0.000	ng		
5) Phenol-d6	0.000	99	0d	0.000	ng		
8) Nitrobenzene-d5	0.000	82	0d	0.000	ng		
11) 2-Methylnaphthalene-d10	0.000	152	0d	0.000	ng		
14) 2,4,6-Tribromophenol	0.000	330	0d	0.000	ng		
15) 2-Fluorobiphenyl	0.000	172	0d	0.000	ng		
27) Fluoranthene-d10	0.000	212	0d	0.000	ng		
31) Terphenyl-d14	0.000	244	0d	0.000	ng		
Target Compounds							Qvalue
9) Naphthalene	10.458	128	22192	1.211	ng		98
12) 2-Methylnaphthalene	12.082	142	11450	0.967	ng		99
16) Acenaphthylene	13.989	152	79777	4.548	ng		99
17) Acenaphthene	14.341	154	34081	2.957	ng		99
18) Fluorene	15.325	166	6026	0.400	ng		98
25) Phenanthrene	17.058	178	35341	1.500	ng		99
26) Anthracene	17.158	178	26761	1.256	ng		100
28) Fluoranthene	19.091	202	103493	3.920	ng		99
30) Pyrene	19.453	202	36010	1.117	ng		99
32) Benzo(a)anthracene	21.197	228	84662	3.434	ng		97
33) Chrysene	21.251	228	101268	3.808	ng		98
36) Indeno(1,2,3-cd)pyrene	25.640	276	68690	3.058	ng		96
37) Benzo(b)fluoranthene	22.766	252	63619	2.750	ng	#	89
38) Benzo(k)fluoranthene	22.810	252	21335	0.917	ng	#	91
39) Benzo(a)pyrene	23.330	252	31475	1.655	ng	#	85
40) Dibenzo(a,h)anthracene	25.658	278	16267	0.920	ng		93
41) Benzo(g,h,i)perylene	26.324	276	16655	0.849	ng		99

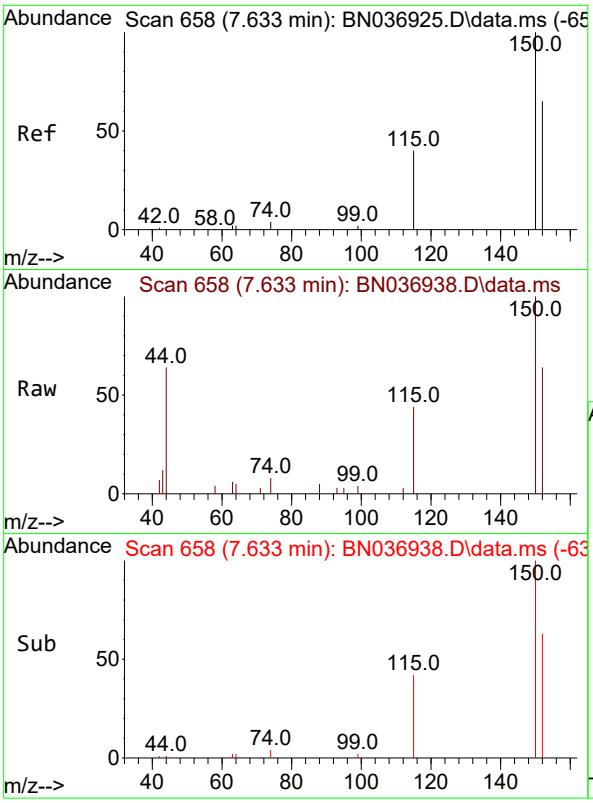
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042925\
Data File : BN036938.D
Acq On : 29 Apr 2025 14:17
Operator : RC/JU
Sample : Q1870-01DL2 50X
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
38072-010925DL2

Quant Time: Apr 29 14:40:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:35:03 2025
Response via : Initial Calibration



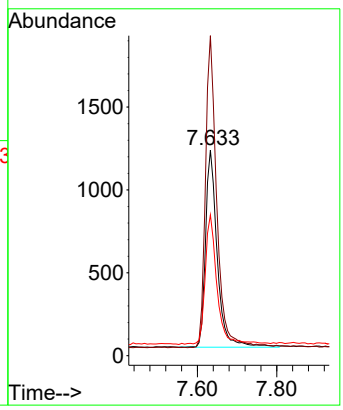


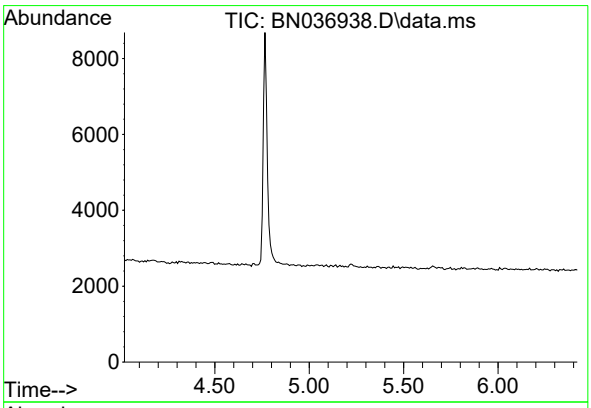
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.633 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN036938.D
Acq: 29 Apr 2025 14:17

Instrument :
BNA_N
ClientSampleId :
38072-010925DL2

Tgt Ion:152 Resp: 2432

Ion	Ratio	Lower	Upper
152	100		
150	155.6	121.1	181.7
115	68.5	51.8	77.6



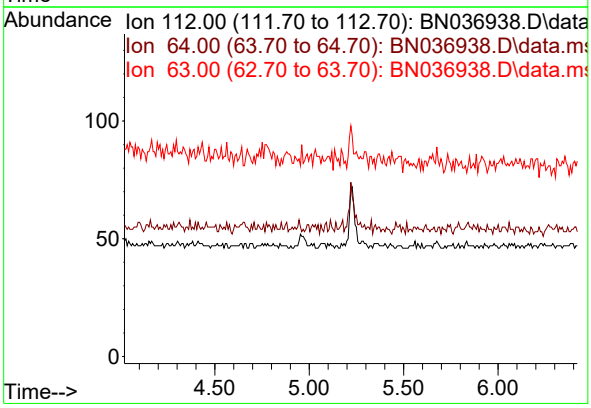


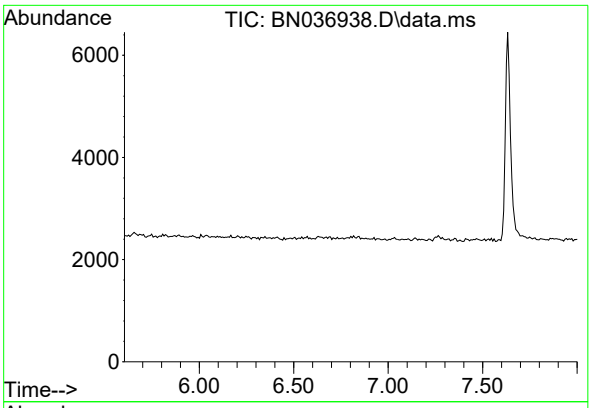
#4
2-Fluorophenol
Concen: 0.000 ng
Expected RT: 5.22 min

Lab File: BN036938.D
Acq: 29 Apr 2025 14:17

Tgt Ion: 112

Sig	Exp Ratio
112	100
64	69.6
63	42.4





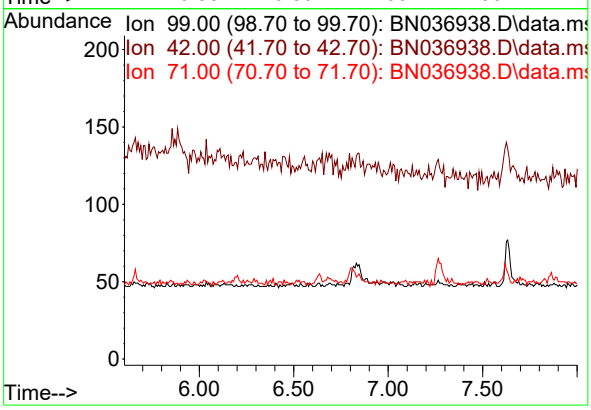
#5
Phenol-d6
Concen: 0.000 ng
Expected RT: 6.80 min

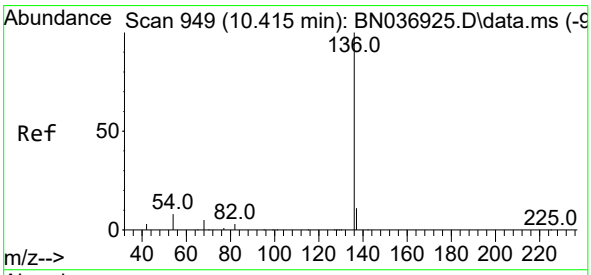
Lab File: BN036938.D
Acq: 29 Apr 2025 14:17

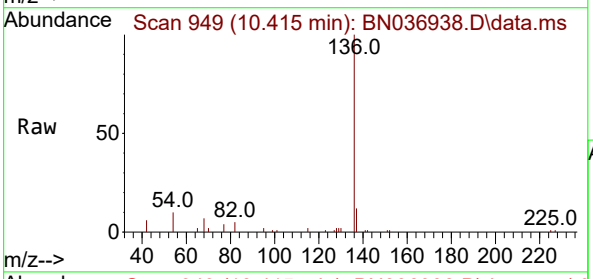
Instrument :
BNA_N
ClientSampleId :
38072-010925DL2

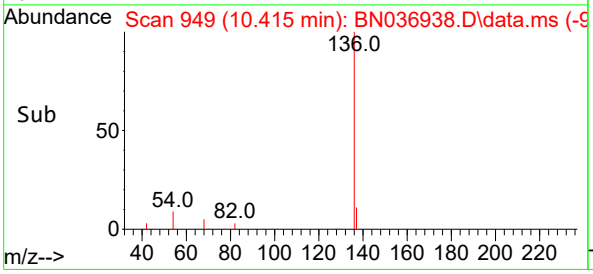
Tgt Ion: 99

Sig	Exp Ratio
99	100
42	37.0
71	45.0





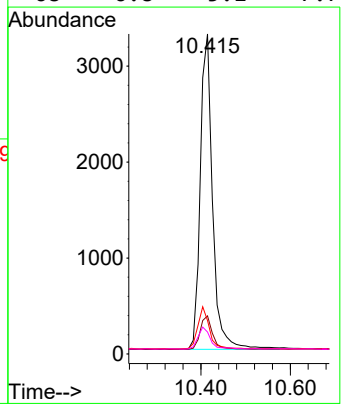


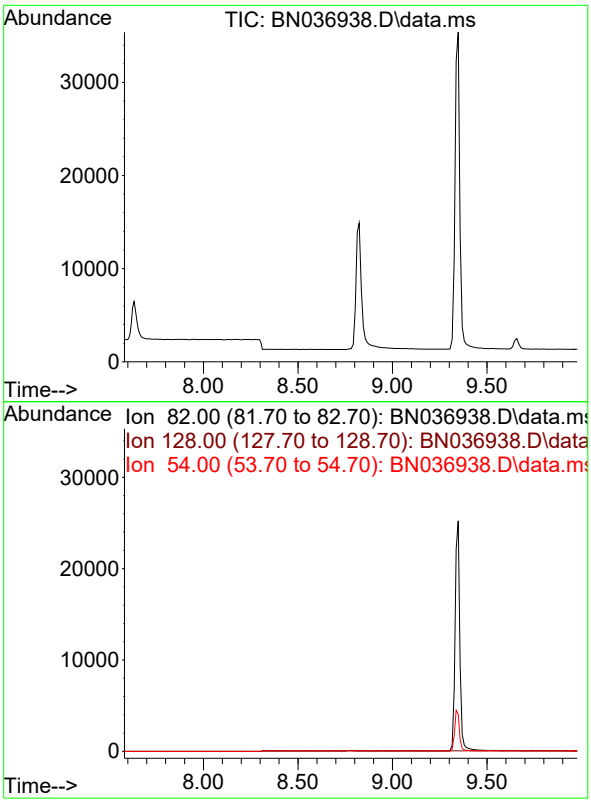


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.415 min Scan# 949
Delta R.T. -0.000 min
Lab File: BN036938.D
Acq: 29 Apr 2025 14:17

Tgt Ion:136 Resp: 6295

Ion	Ratio	Lower	Upper
136	100		
137	11.9	9.7	14.5
54	10.4	8.0	12.0
68	6.8	5.1	7.7





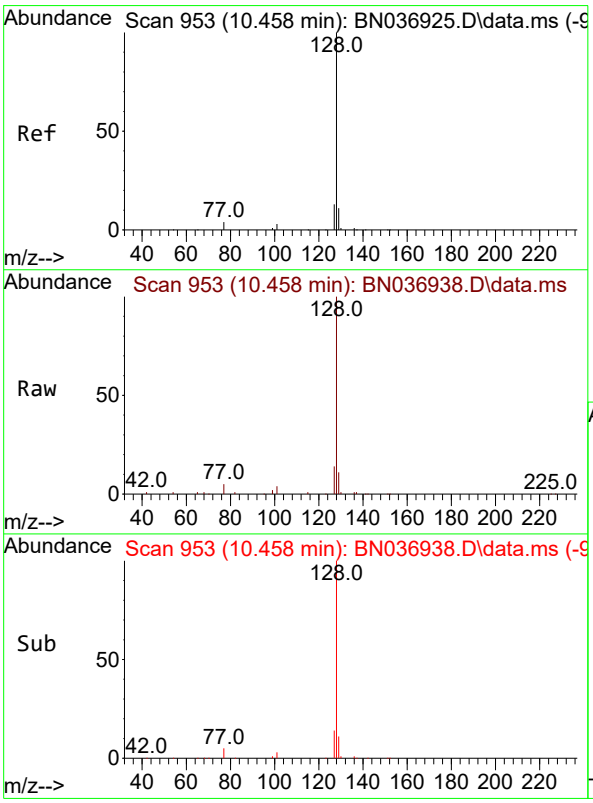
#8
Nitrobenzene-d5
Concen: 0.000 ng
Expected RT: 8.78 min

Lab File: BN036938.D
Acq: 29 Apr 2025 14:17

Instrument :
BNA_N
ClientSampleId :
38072-010925DL2

Tgt Ion: 82

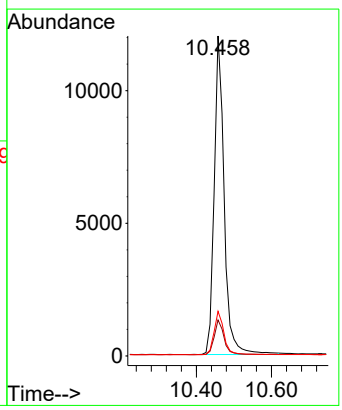
Sig	Exp Ratio
82	100
128	38.4
54	65.1

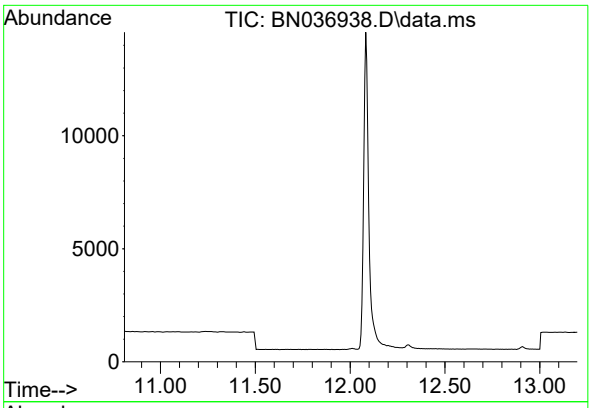


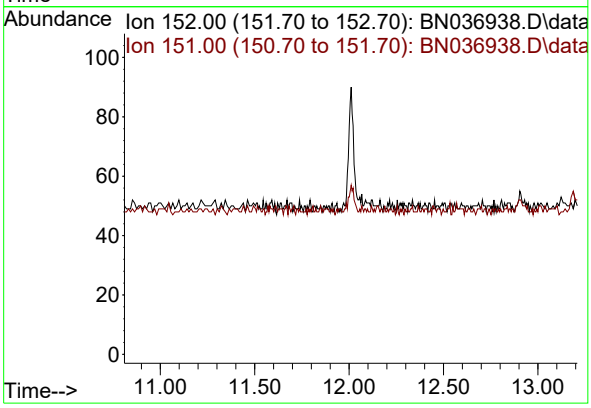
#9
Naphthalene
Concen: 1.211 ng
RT: 10.458 min Scan# 953
Delta R.T. -0.000 min
Lab File: BN036938.D
Acq: 29 Apr 2025 14:17

Tgt Ion:128 Resp: 22192

Ion	Ratio	Lower	Upper
128	100		
129	11.2	9.8	14.6
127	13.9	11.4	17.2







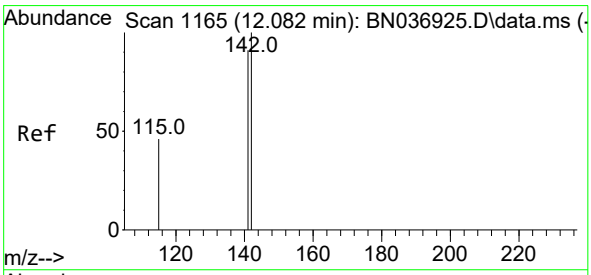
#11
2-Methylnaphthalene-d10
Concen: 0.000 ng
Expected RT: 12.01 min

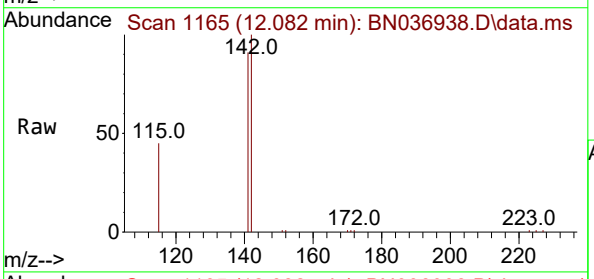
Lab File: BN036938.D
Acq: 29 Apr 2025 14:17

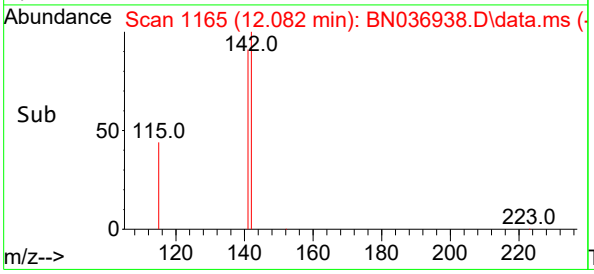
Instrument :
BNA_N
ClientSampleId :
38072-010925DL2

Tgt Ion: 152

Sig	Exp Ratio
152	100
151	21.1



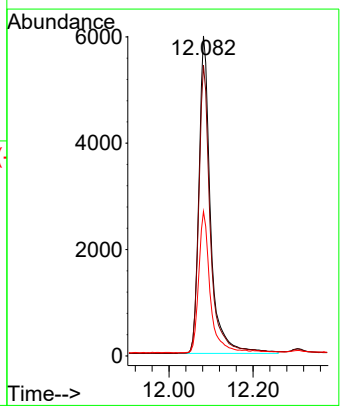


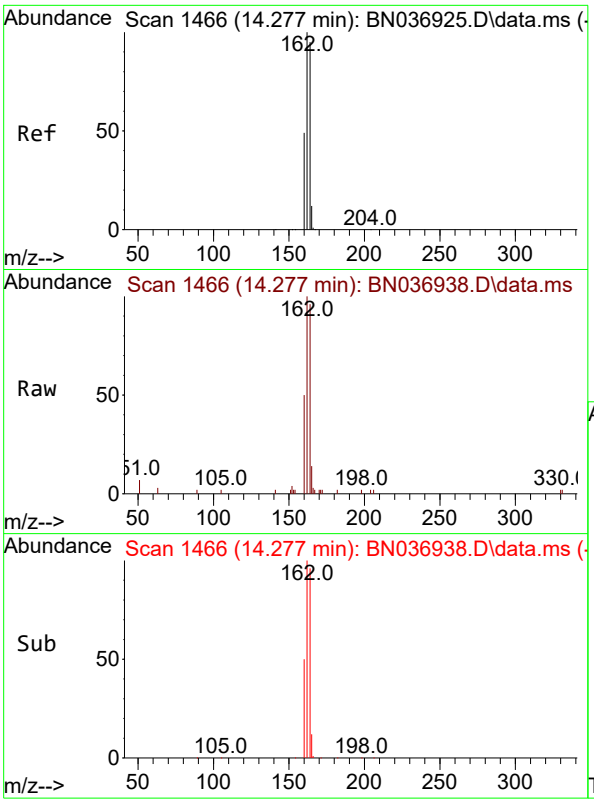


#12
2-Methylnaphthalene
Concen: 0.967 ng
RT: 12.082 min Scan# 1165
Delta R.T. -0.000 min
Lab File: BN036938.D
Acq: 29 Apr 2025 14:17

Tgt Ion:142 Resp: 11450

Ion	Ratio	Lower	Upper
142	100		
141	90.8	72.8	109.2
115	45.2	38.2	57.4



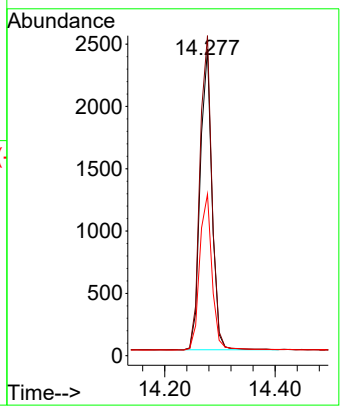


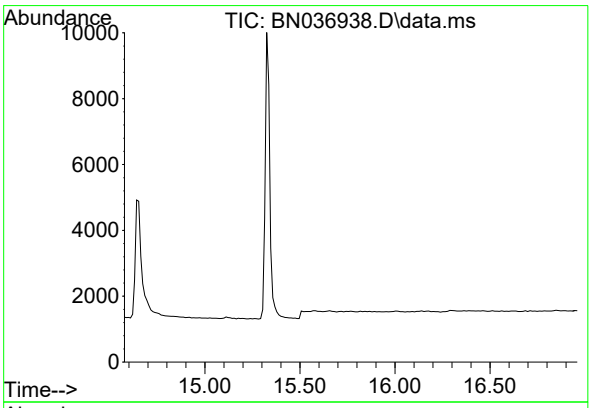
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.277 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN036938.D
Acq: 29 Apr 2025 14:17

Instrument :
BNA_N
ClientSampleId :
38072-010925DL2

Tgt Ion:164 Resp: 3589

Ion	Ratio	Lower	Upper
164	100		
162	104.3	83.8	125.8
160	52.6	42.0	63.0



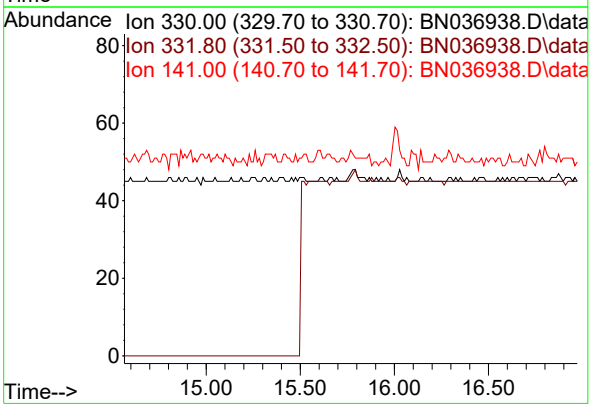


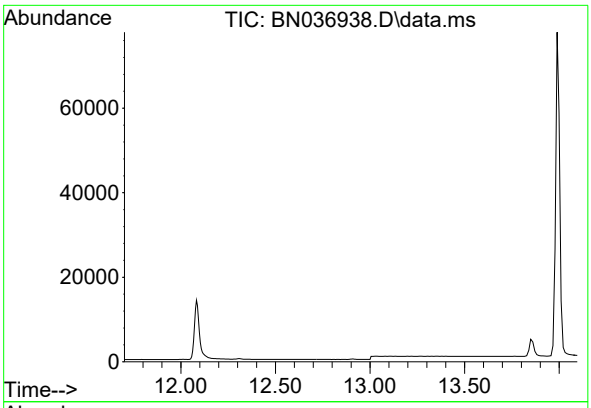
#14
2,4,6-Tribromophenol
Concen: 0.000 ng
Expected RT: 15.77 min

Lab File: BN036938.D
Acq: 29 Apr 2025 14:17

Tgt Ion: 330

Sig	Exp Ratio
330	100
332	95.4
141	56.8





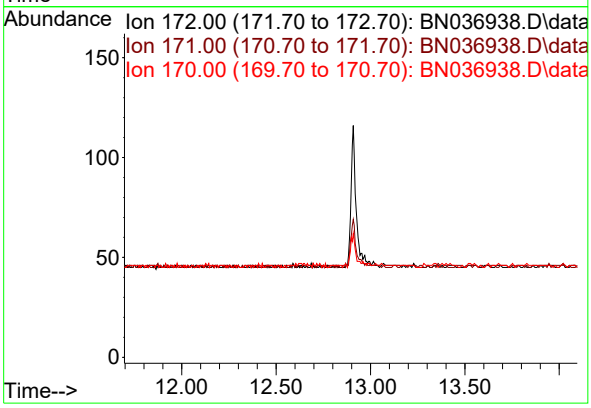
#15
2-Fluorobiphenyl
Concen: 0.000 ng
Expected RT: 12.90 min

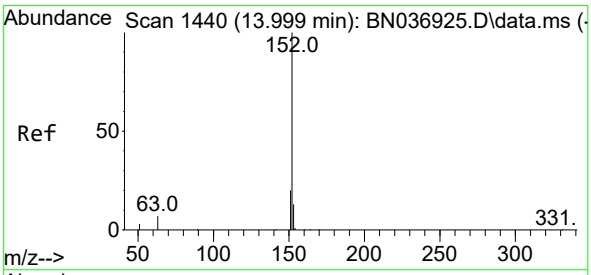
Lab File: BN036938.D
Acq: 29 Apr 2025 14:17

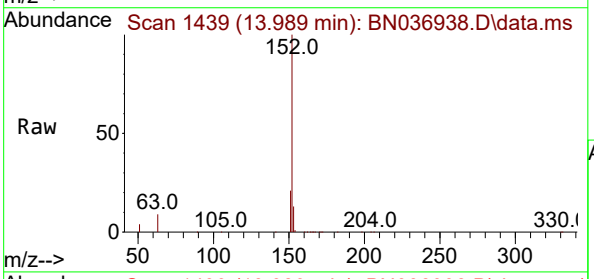
Instrument :
BNA_N
ClientSampleId :
38072-010925DL2

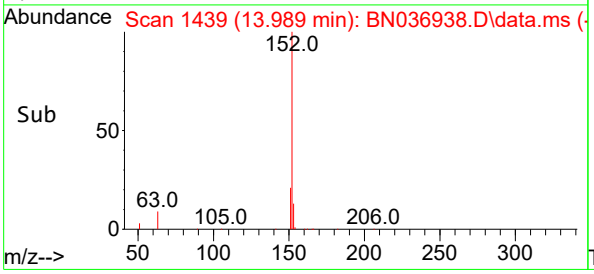
Tgt Ion: 172

Sig	Exp Ratio
172	100
171	36.7
170	24.2





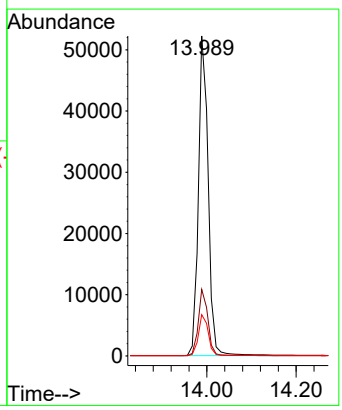


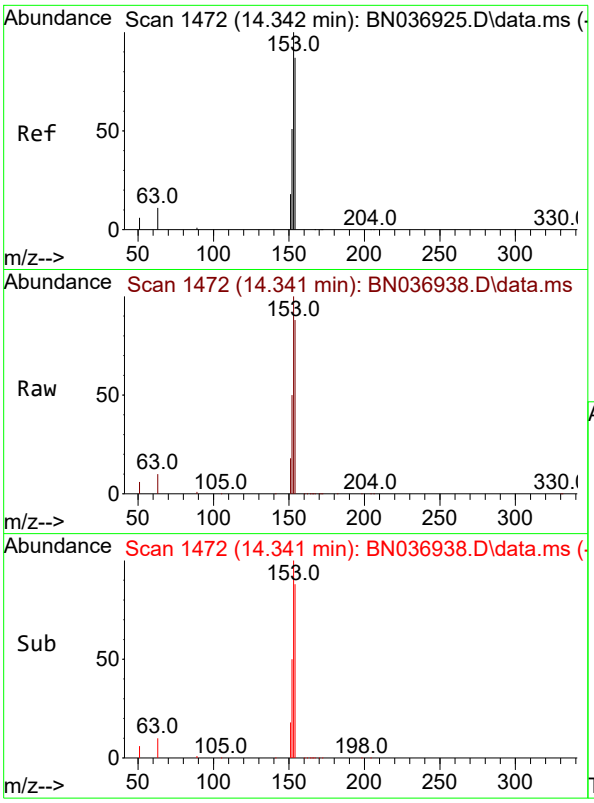


#16
Acenaphthylene
Concen: 4.548 ng
RT: 13.989 min Scan# 1439
Delta R.T. -0.011 min
Lab File: BN036938.D
Acq: 29 Apr 2025 14:17

Tgt Ion:152 Resp: 79777

Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.0	24.0
153	13.0	10.2	15.2



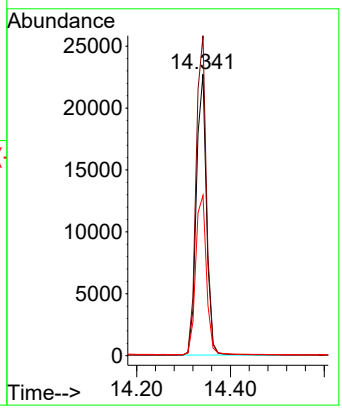


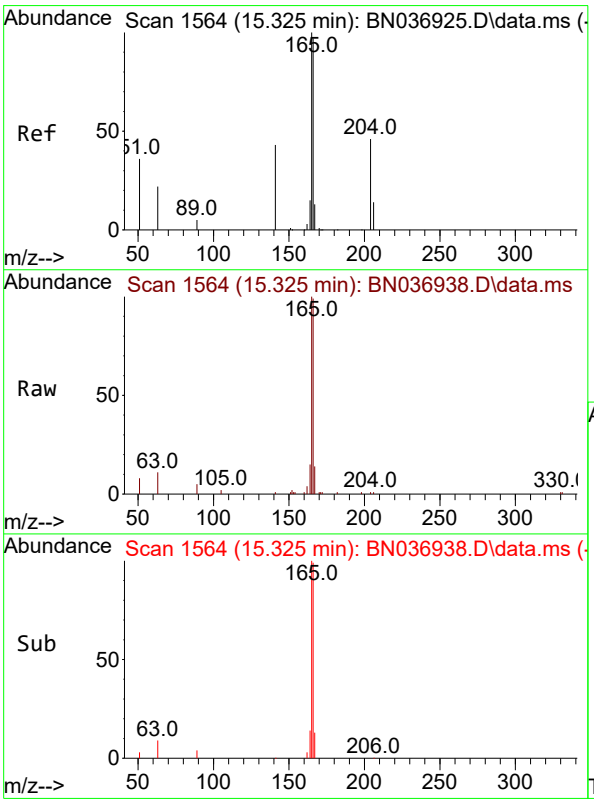
#17
Acenaphthene
Concen: 2.957 ng
RT: 14.341 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN036938.D
Acq: 29 Apr 2025 14:17

Instrument :
BNA_N
ClientSampleId :
38072-010925DL2

Tgt Ion:154 Resp: 34081

Ion	Ratio	Lower	Upper
154	100		
153	116.2	93.4	140.2
152	60.5	49.5	74.3

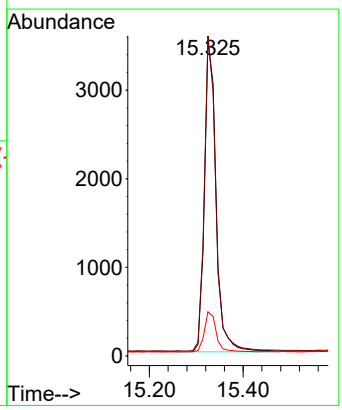


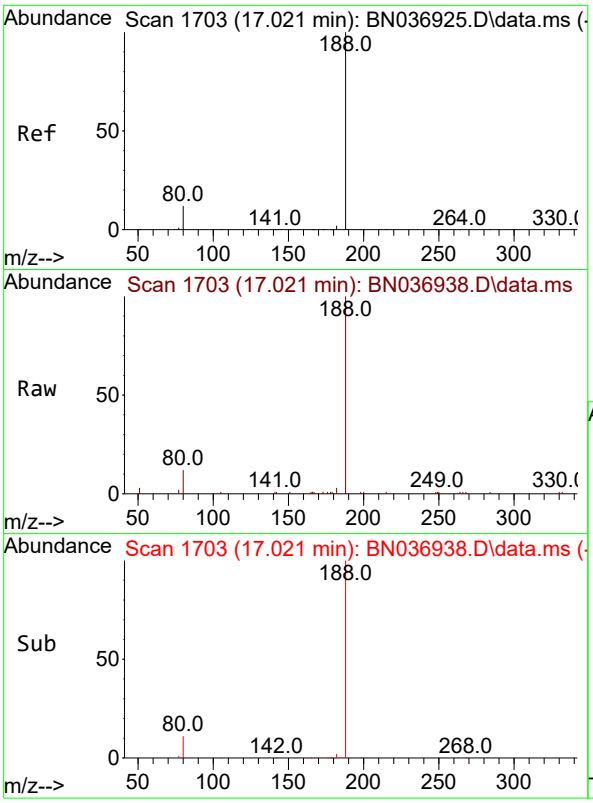


#18
Fluorene
Concen: 0.400 ng
RT: 15.325 min Scan# 1564
Delta R.T. -0.000 min
Lab File: BN036938.D
Acq: 29 Apr 2025 14:17

Tgt Ion:166 Resp: 6026

Ion	Ratio	Lower	Upper
166	100		
165	99.4	80.8	121.2
167	13.1	10.8	16.2



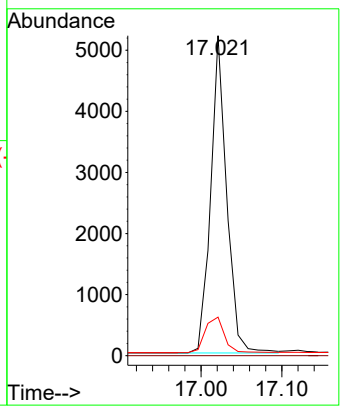


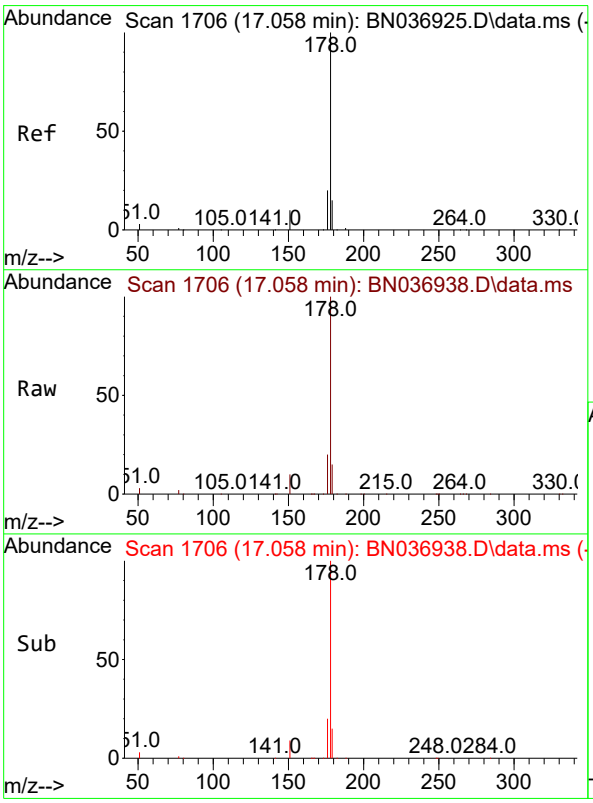
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.021 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN036938.D
Acq: 29 Apr 2025 14:17

Instrument :
BNA_N
ClientSampleId :
38072-010925DL2

Tgt Ion:188 Resp: 7137

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.0	10.7	16.1

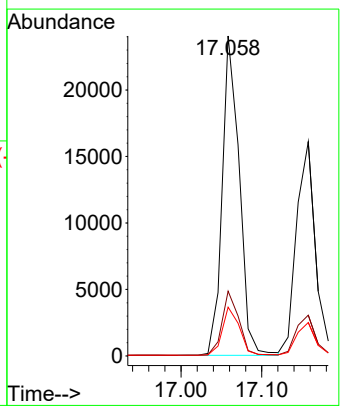


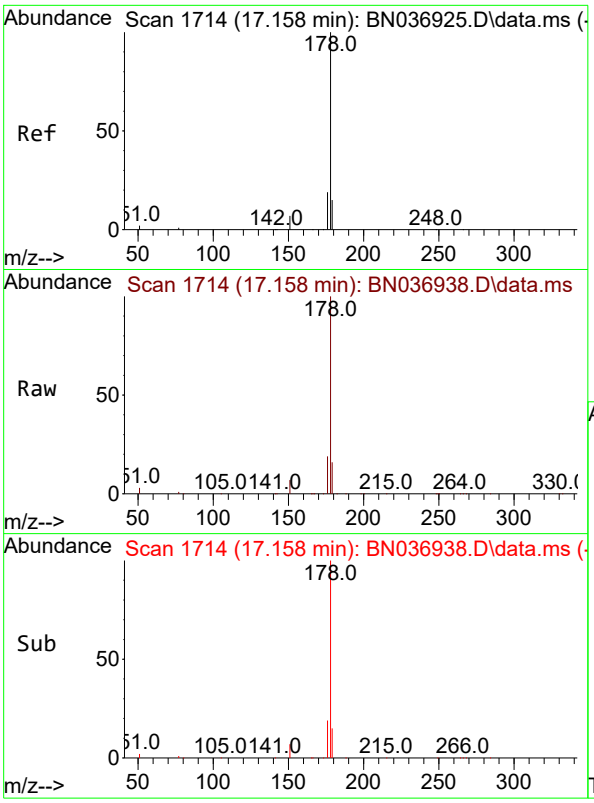


#25
Phenanthrene
Concen: 1.500 ng
RT: 17.058 min Scan# 1706
Delta R.T. -0.000 min
Lab File: BN036938.D
Acq: 29 Apr 2025 14:17

Tgt Ion:178 Resp: 35341

Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.7	23.5
179	15.1	12.4	18.6



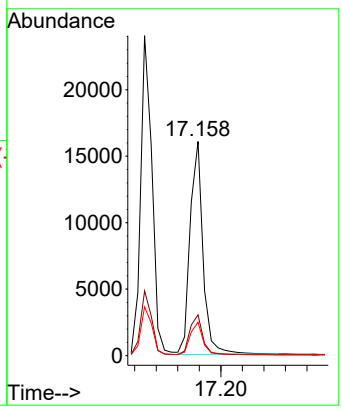


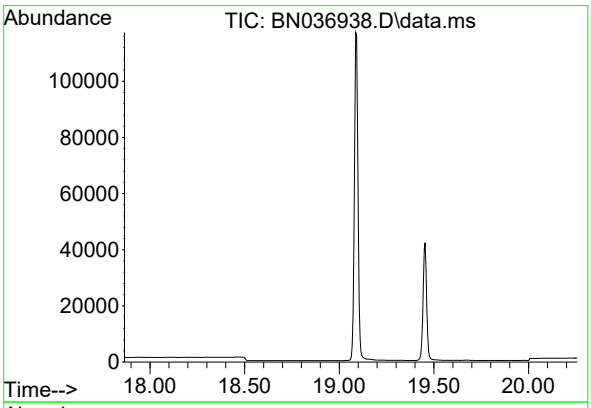
#26
Anthracene
Concen: 1.256 ng
RT: 17.158 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN036938.D
Acq: 29 Apr 2025 14:17

Instrument :
BNA_N
ClientSampleId :
38072-010925DL2

Tgt Ion:178 Resp: 26761

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.3	22.9
179	15.3	12.1	18.1



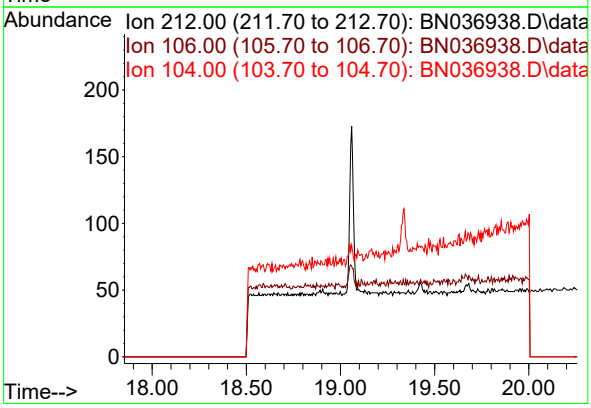


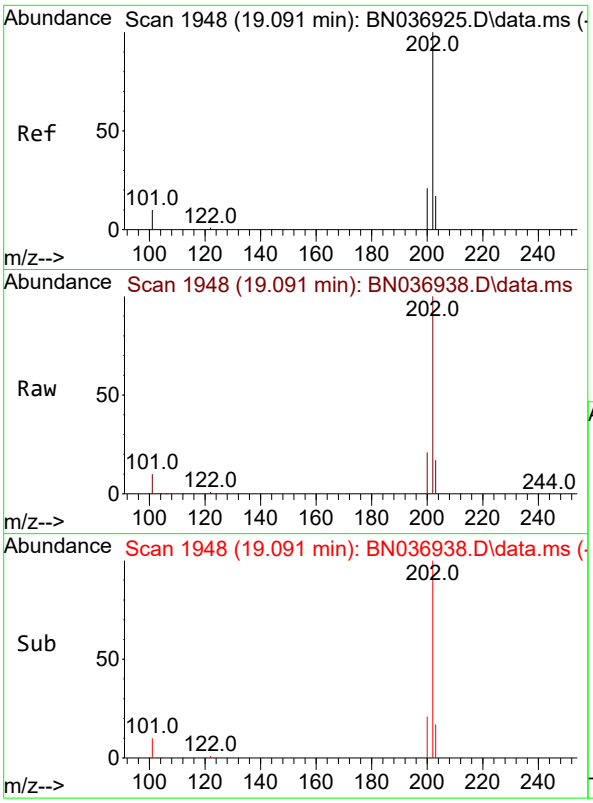
#27
Fluoranthene-d10
Concen: 0.000 ng
Expected RT: 19.06 min

Lab File: BN036938.D
Acq: 29 Apr 2025 14:17

Tgt Ion: 212

Sig	Exp Ratio
212	100
106	14.5
104	8.7



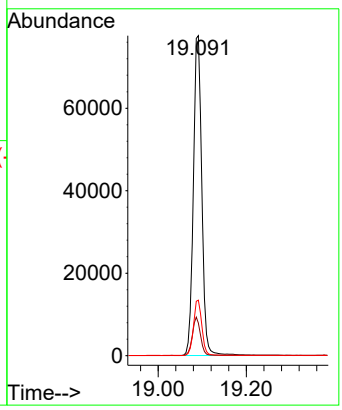


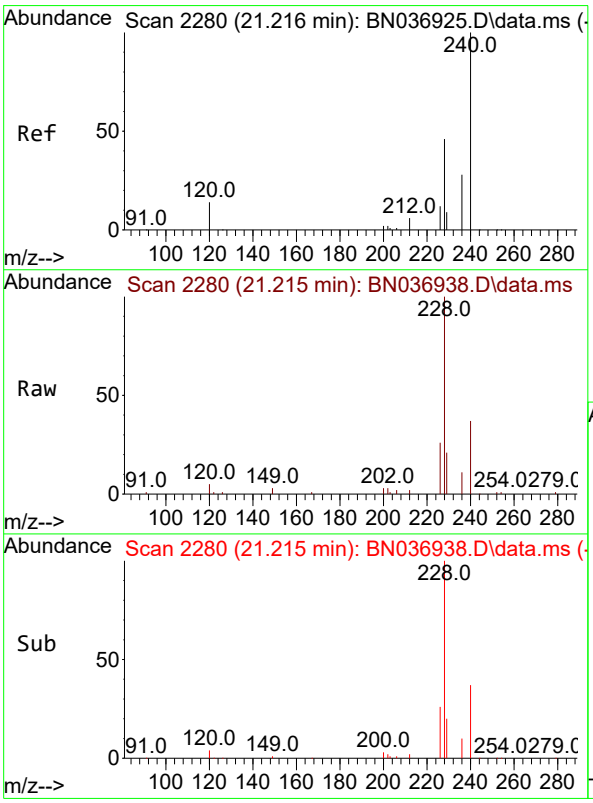
#28
Fluoranthene
Concen: 3.920 ng
RT: 19.091 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN036938.D
Acq: 29 Apr 2025 14:17

Instrument :
BNA_N
ClientSampleId :
38072-010925DL2

Tgt Ion:202 Resp: 103493

Ion	Ratio	Lower	Upper
202	100		
101	11.4	8.5	12.7
203	17.2	13.7	20.5

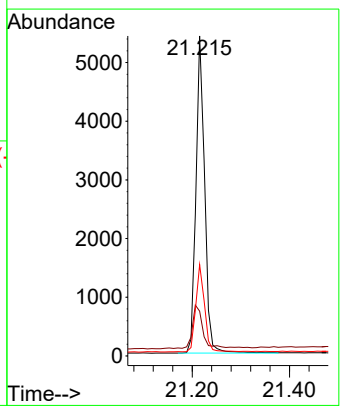


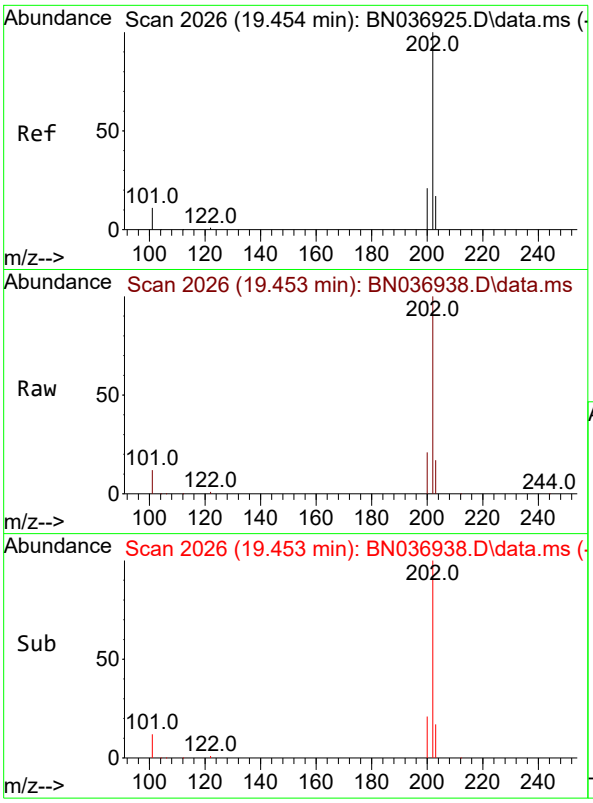


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.215 min Scan# 2280
Delta R.T. -0.000 min
Lab File: BN036938.D
Acq: 29 Apr 2025 14:17

Tgt Ion:240 Resp: 6695

Ion	Ratio	Lower	Upper
240	100		
120	14.0	14.1	21.1#
236	28.5	23.8	35.8



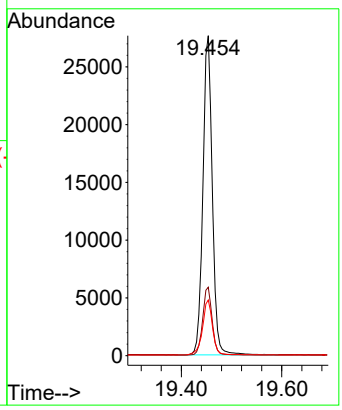


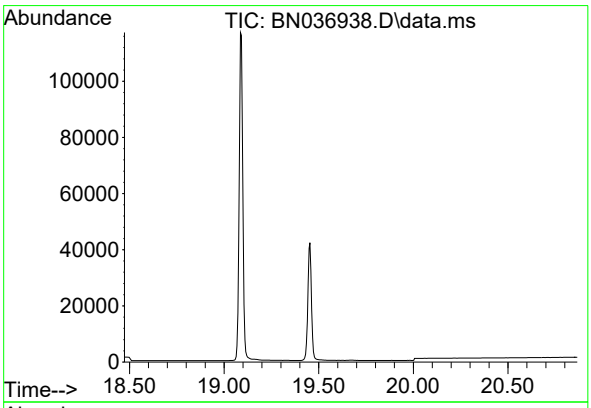
#30
Pyrene
Concen: 1.117 ng
RT: 19.453 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN036938.D
Acq: 29 Apr 2025 14:17

Instrument :
BNA_N
ClientSampleId :
38072-010925DL2

Tgt Ion:202 Resp: 36010

Ion	Ratio	Lower	Upper
202	100		
200	21.5	17.0	25.6
203	18.2	14.0	21.0



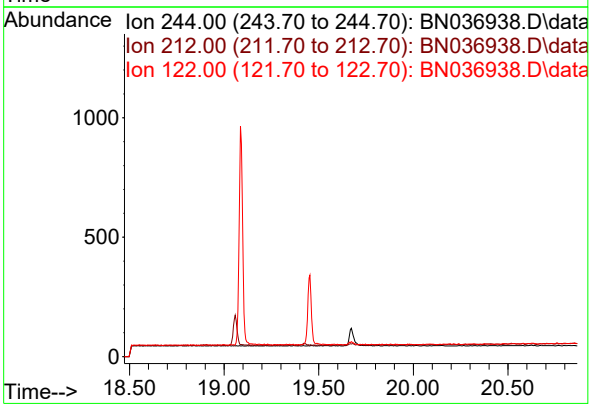


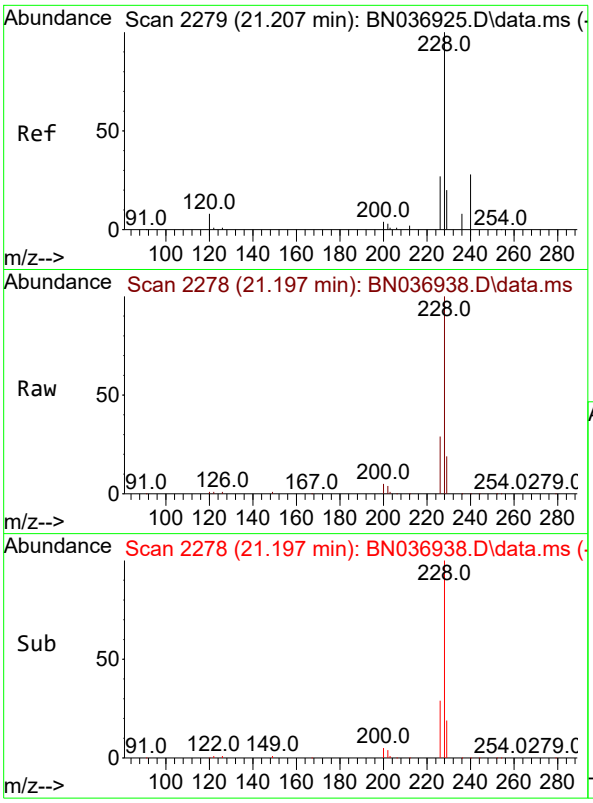
#31
Terphenyl-d14
Concen: 0.000 ng
Expected RT: 19.67 min

Lab File: BN036938.D
Acq: 29 Apr 2025 14:17

Tgt Ion: 244

Sig	Exp Ratio
244	100
212	12.0
122	15.9



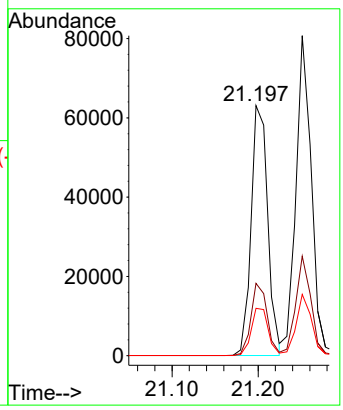


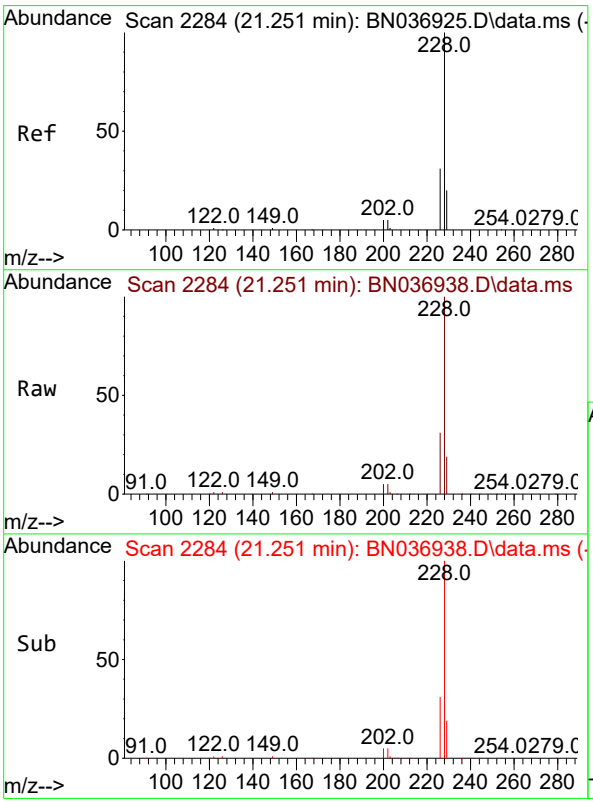
#32
Benzo(a)anthracene
Concen: 3.434 ng
RT: 21.197 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN036938.D
Acq: 29 Apr 2025 14:17

Instrument :
BNA_N
ClientSampleId :
38072-010925DL2

Tgt Ion:228 Resp: 84662

Ion	Ratio	Lower	Upper
228	100		
226	28.9	22.2	33.4
229	18.9	16.4	24.6

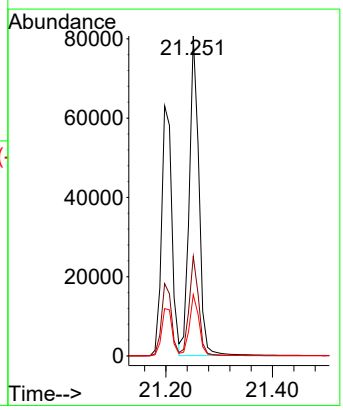


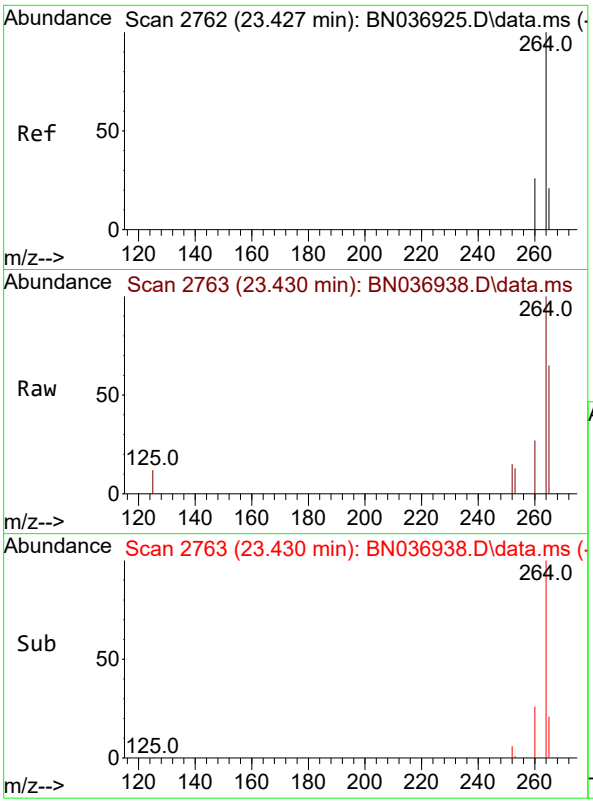


#33
Chrysene
Concen: 3.808 ng
RT: 21.251 min Scan# 2284
Delta R.T. -0.000 min
Lab File: BN036938.D
Acq: 29 Apr 2025 14:17

Tgt Ion:228 Resp: 101268

Ion	Ratio	Lower	Upper
228	100		
226	31.1	25.5	38.3
229	19.2	16.5	24.7



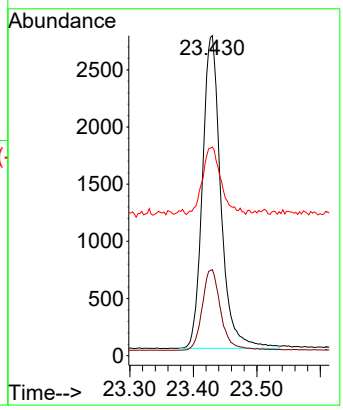


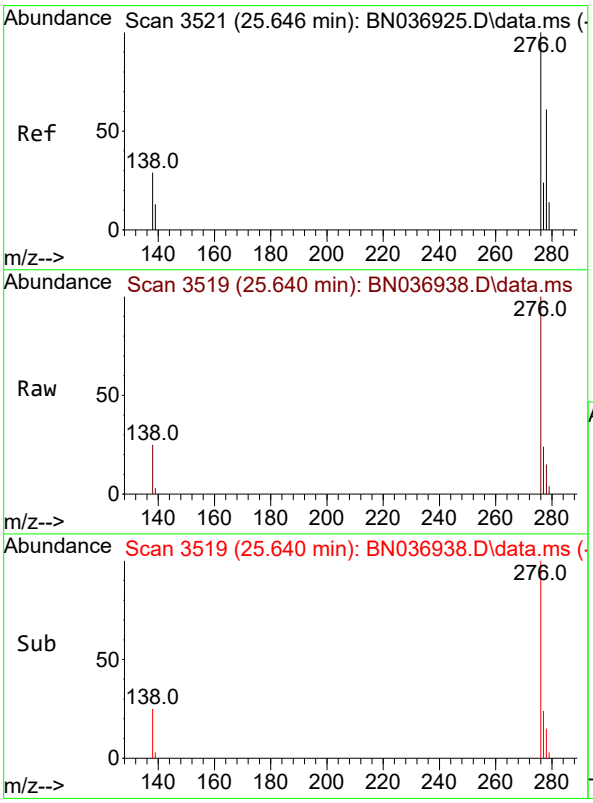
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.430 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN036938.D
Acq: 29 Apr 2025 14:17

Instrument :
BNA_N
ClientSampleId :
38072-010925DL2

Tgt Ion:264 Resp: 5501

Ion	Ratio	Lower	Upper
264	100		
260	26.9	22.2	33.2
265	65.2	65.8	98.6#

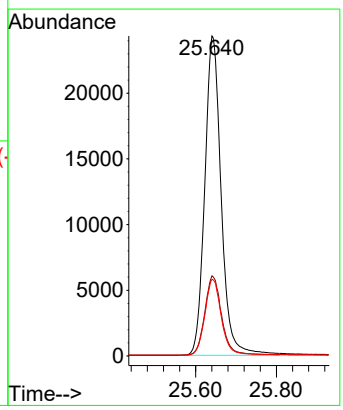


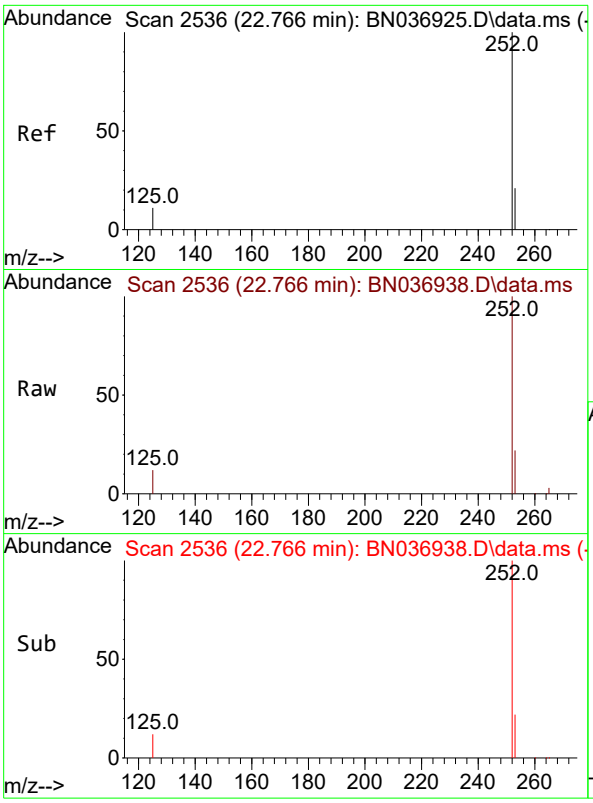


#36
Indeno(1,2,3-cd)pyrene
Concen: 3.058 ng
RT: 25.640 min Scan# 3519
Delta R.T. -0.006 min
Lab File: BN036938.D
Acq: 29 Apr 2025 14:17

Tgt Ion:276 Resp: 68690

Ion	Ratio	Lower	Upper
276	100		
138	25.6	23.0	34.6
277	24.0	20.0	30.0



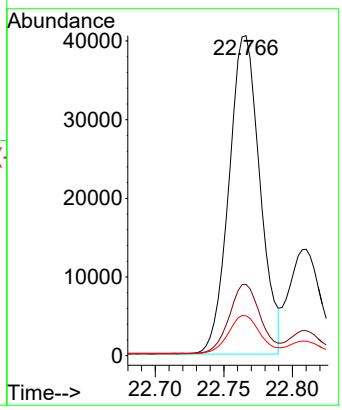


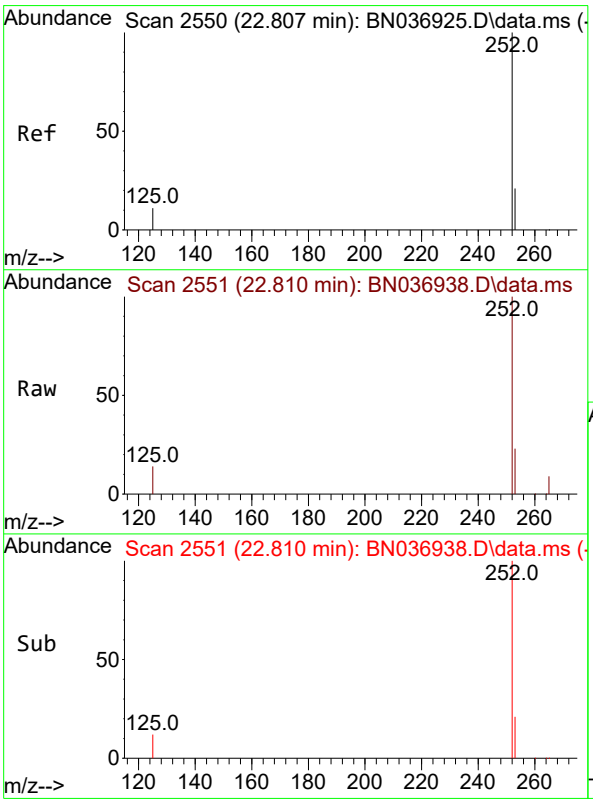
#37
Benzo(b)fluoranthene
Concen: 2.750 ng
RT: 22.766 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN036938.D
Acq: 29 Apr 2025 14:17

Instrument :
BNA_N
ClientSampleId :
38072-010925DL2

Tgt Ion:252 Resp: 63619

Ion	Ratio	Lower	Upper
252	100		
253	22.3	22.1	33.1
125	12.5	14.2	21.2#

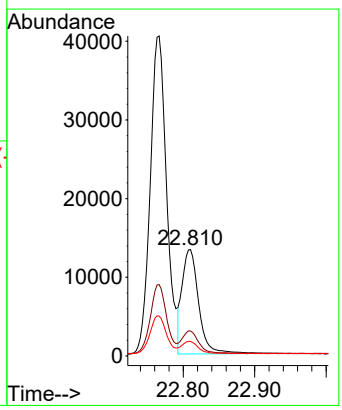


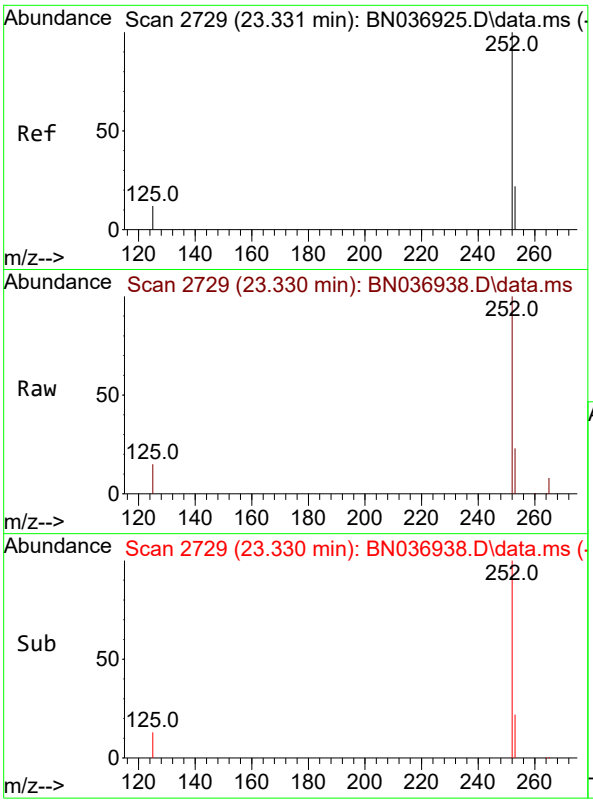


#38
Benzo(k)fluoranthene
Concen: 0.917 ng
RT: 22.810 min Scan# 2551
Delta R.T. 0.003 min
Lab File: BN036938.D
Acq: 29 Apr 2025 14:17

Tgt Ion:252 Resp: 21335

Ion	Ratio	Lower	Upper
252	100		
253	23.4	22.8	34.2
125	13.7	14.2	21.2#



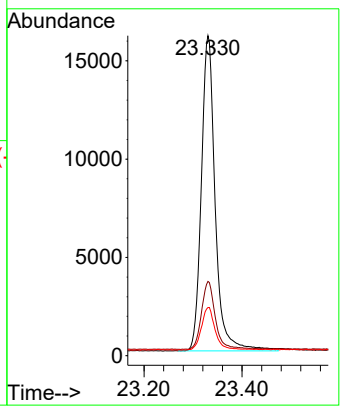


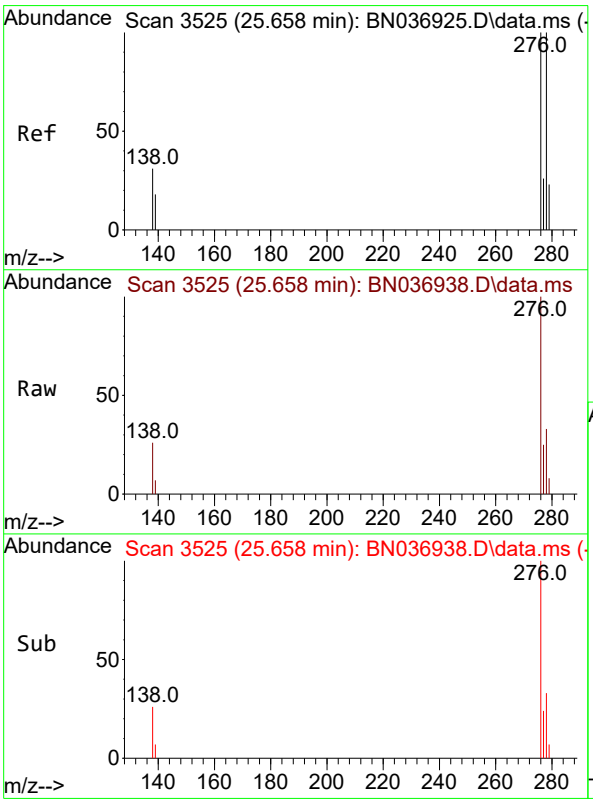
#39
Benzo(a)pyrene
Concen: 1.655 ng
RT: 23.330 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN036938.D
Acq: 29 Apr 2025 14:17

Instrument :
BNA_N
ClientSampleId :
38072-010925DL2

Tgt Ion:252 Resp: 31475

Ion	Ratio	Lower	Upper
252	100		
253	23.2	25.9	38.9#
125	15.1	17.4	26.0#

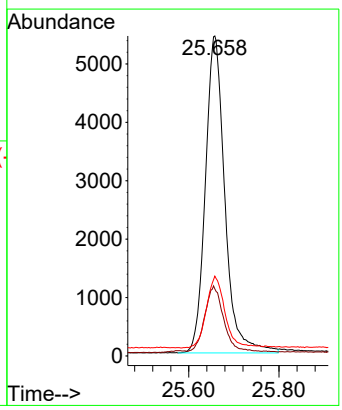


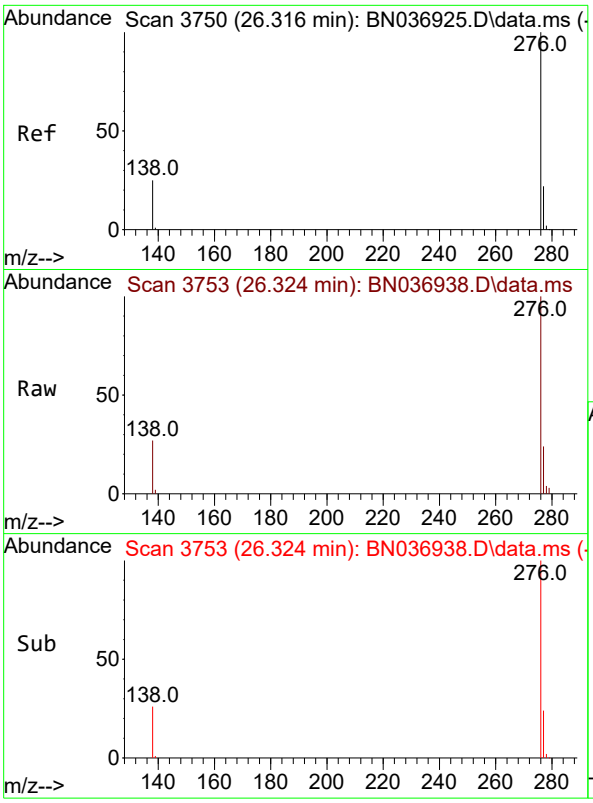


#40
Dibenzo(a,h)anthracene
Concen: 0.920 ng
RT: 25.658 min Scan# 3525
Delta R.T. -0.000 min
Lab File: BN036938.D
Acq: 29 Apr 2025 14:17

Tgt Ion:278 Resp: 16267

Ion	Ratio	Lower	Upper
278	100		
139	21.0	17.4	26.2
279	25.0	24.9	37.3



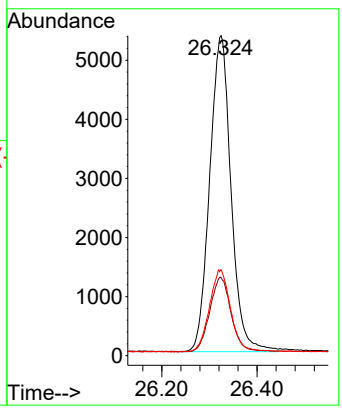


#41
Benzo(g,h,i)perylene
Concen: 0.849 ng
RT: 26.324 min Scan# 3
Delta R.T. 0.009 min
Lab File: BN036938.D
Acq: 29 Apr 2025 14:17

Instrument :
BNA_N
ClientSampleId :
38072-010925DL2

Tgt Ion:276 Resp: 16655

Ion	Ratio	Lower	Upper
276	100		
277	24.5	20.2	30.2
138	26.9	21.9	32.9



CALIBRATION SUMMARY

Response Factor Report BNA_N

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN042825.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Mon Apr 28 15:35:03 2025
Response Via : Initial Calibration

Calibration Files
0.1 =BN036923.D 0.2 =BN036924.D 0.4 =BN036925.D 0.8 =BN036926.D 1.6 =BN036927.D 3.2 =BN036928.D 5.0 =BN036929.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	0.452	0.489	0.551	0.506	0.537	0.489	0.465	0.498	7.23
3)		n-Nitrosodimet...	0.903	0.998	1.010	0.957	1.034	0.952	0.918	0.967	5.01
4)	S	2-Fluorophenol	1.050	1.056	1.118	0.946	1.040	0.982	0.970	1.023	5.86
5)	S	Phenol-d6	1.270	1.237	1.337	1.151	1.294	1.255	1.272	1.259	4.57
6)		bis(2-Chloroet...	1.174	1.123	1.170	1.139	1.240	1.162	1.162	1.167	3.17
7)	I	Naphthalene-d8	----------ISTD----------								
8)	S	Nitrobenzene-d5	0.400	0.401	0.411	0.404	0.446	0.432	0.436	0.418	4.52
9)		Naphthalene	1.155	1.147	1.155	1.132	1.225	1.170	1.165	1.164	2.56
10)		Hexachlorobuta...	0.260	0.250	0.253	0.249	0.262	0.248	0.240	0.252	2.99
11)	SURR	2-Methylnaphth...	0.540	0.532	0.541	0.543	0.596	0.575	0.589	0.559	4.75
12)		2-Methylnaphth...	0.716	0.713	0.719	0.735	0.804	0.782	0.798	0.753	5.41
13)	I	Acenaphthene-d10	----------ISTD----------								
14)	S	2,4,6-Tribromo...	0.156	0.173	0.177	0.175	0.187	0.184	0.196	0.178	7.18
15)	S	2-Fluorobiphenyl	1.877	1.975	2.055	1.690	2.023	1.986	1.928	1.933	6.32
16)		Acenaphthylene	1.876	1.850	1.907	1.884	2.067	2.035	2.066	1.955	4.93
17)		Acenaphthene	1.264	1.270	1.275	1.248	1.333	1.295	1.305	1.284	2.22
18)		Fluorene	1.604	1.612	1.624	1.658	1.788	1.720	1.752	1.680	4.39
19)	I	Phenanthrene-d10	----------ISTD----------								
20)		4,6-Dinitro-2-...	0.083	0.090	0.096	0.113	0.120	0.134	0.106		18.55
21)		4-Bromophenyl-...	0.260	0.263	0.262	0.260	0.282	0.272	0.270	0.267	3.11
22)		Hexachlorobenzene	0.301	0.289	0.300	0.280	0.303	0.293	0.282	0.293	3.18
23)		Atrazine	0.193	0.198	0.199	0.217	0.227	0.226	0.248	0.215	9.20
24)		Pentachlorophenol	0.160	0.136	0.144	0.145	0.163	0.168	0.181	0.157	10.06
25)		Phenanthrene	1.309	1.274	1.299	1.280	1.387	1.346	1.347	1.320	3.13
26)		Anthracene	1.131	1.108	1.147	1.138	1.275	1.261	1.299	1.194	6.74
27)	SURR	Fluoranthene-d10	0.993	1.004	0.991	1.016	1.087	1.053	1.115	1.037	4.74
28)		Fluoranthene	1.387	1.380	1.399	1.471	1.578	1.530	1.613	1.480	6.46
29)	I	Chrysene-d12	----------ISTD----------								
30)		Pyrene	1.919	1.942	1.958	1.802	2.073	1.969	1.823	1.927	4.77
31)	S	Terphenyl-d14	0.974	0.942	0.946	0.893	1.005	0.952	0.897	0.944	4.22
32)		Benzo(a)anthra...	1.402	1.407	1.429	1.422	1.583	1.509	1.561	1.473	5.19
33)		Chrysene	1.517	1.576	1.637	1.582	1.700	1.572	1.536	1.589	3.91
34)		Bis(2-ethylhex...	0.949	0.847	0.834	0.784	0.804	0.782	0.866	0.838	6.96
35)	I	Perylene-d12	----------ISTD----------								

Response Factor Report BNA_N

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN042825.M

36)		Indeno(1,2,3-c...	1.595	1.571	1.712	1.503	1.720	1.724	1.609	1.634	5.29
37)		Benzo(b)fluora...	1.580	1.552	1.634	1.628	1.796	1.758	1.825	1.682	6.50
38)		Benzo(k)fluora...	1.601	1.569	1.648	1.641	1.812	1.784	1.785	1.691	5.89
39)	C	Benzo(a)pyrene	1.315	1.301	1.361	1.315	1.463	1.447	1.477	1.383	5.57
40)		Dibenzo(a,h)an...	1.229	1.241	1.349	1.176	1.357	1.379	1.268	1.286	5.96
41)		Benzo(g,h,i)pe...	1.459	1.405	1.515	1.305	1.495	1.470	1.339	1.427	5.61

(#) = Out of Range

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042825\
Data File : BN036923.D
Acq On : 28 Apr 2025 11:35
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025

Quant Time: Apr 28 15:11:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:11:09 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.633	152	2671	0.400	ng		0.00
7) Naphthalene-d8	10.415	136	6571	0.400	ng		0.00
13) Acenaphthene-d10	14.277	164	3486	0.400	ng		0.00
19) Phenanthrene-d10	17.021	188	6515	0.400	ng		0.00
29) Chrysene-d12	21.215	240	4809	0.400	ng		0.00
35) Perylene-d12	23.427	264	4185	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.220	112	701	0.102	ng		0.00
5) Phenol-d6	6.802	99	848	0.101	ng		0.00
8) Nitrobenzene-d5	8.781	82	657	0.096	ng		0.00
11) 2-Methylnaphthalene-d10	12.011	152	887	0.097	ng		0.00
14) 2,4,6-Tribromophenol	15.767	330	136	0.089	ng		0.00
15) 2-Fluorobiphenyl	12.898	172	1636	0.097	ng		0.00
27) Fluoranthene-d10	19.059	212	1617	0.097	ng		0.00
31) Terphenyl-d14	19.662	244	1171	0.102	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.155	88	302m	0.090	ng		
3) n-Nitrosodimethylamine	3.473	42	603	0.093	ng	#	92
6) bis(2-Chloroethyl)ether	7.062	93	784	0.101	ng		98
9) Naphthalene	10.458	128	1897	0.099	ng	#	93
10) Hexachlorobutadiene	10.756	225	427	0.102	ng	#	99
12) 2-Methylnaphthalene	12.082	142	1176	0.096	ng		98
16) Acenaphthylene	13.999	152	1635	0.097	ng		100
17) Acenaphthene	14.341	154	1102	0.099	ng		98
18) Fluorene	15.325	166	1398	0.096	ng		99
21) 4-Bromophenyl-phenylether	16.227	248	424	0.098	ng		95
22) Hexachlorobenzene	16.338	284	490	0.102	ng		97
23) Atrazine	16.500	200	314	0.092	ng	#	92
24) Pentachlorophenol	16.686	266	261	0.105	ng		92
25) Phenanthrene	17.058	178	2132	0.099	ng		98
26) Anthracene	17.157	178	1842	0.096	ng		100
28) Fluoranthene	19.091	202	2259	0.095	ng		97
30) Pyrene	19.453	202	2307	0.099	ng		98
32) Benzo(a)anthracene	21.197	228	1685	0.096	ng		96
33) Chrysene	21.251	228	1824	0.095	ng		96
34) Bis(2-ethylhexyl)phtha...	21.144	149	1141	0.114	ng		99
36) Indeno(1,2,3-cd)pyrene	25.646	276	1669	0.097	ng		99
37) Benzo(b)fluoranthene	22.763	252	1653	0.095	ng	#	66
38) Benzo(k)fluoranthene	22.810	252	1675	0.096	ng	#	63
39) Benzo(a)pyrene	23.330	252	1376	0.096	ng	#	61
40) Dibenzo(a,h)anthracene	25.658	278	1286	0.095	ng	#	70
41) Benzo(g,h,i)perylene	26.324	276	1527	0.101	ng	#	86

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

ICAL Form

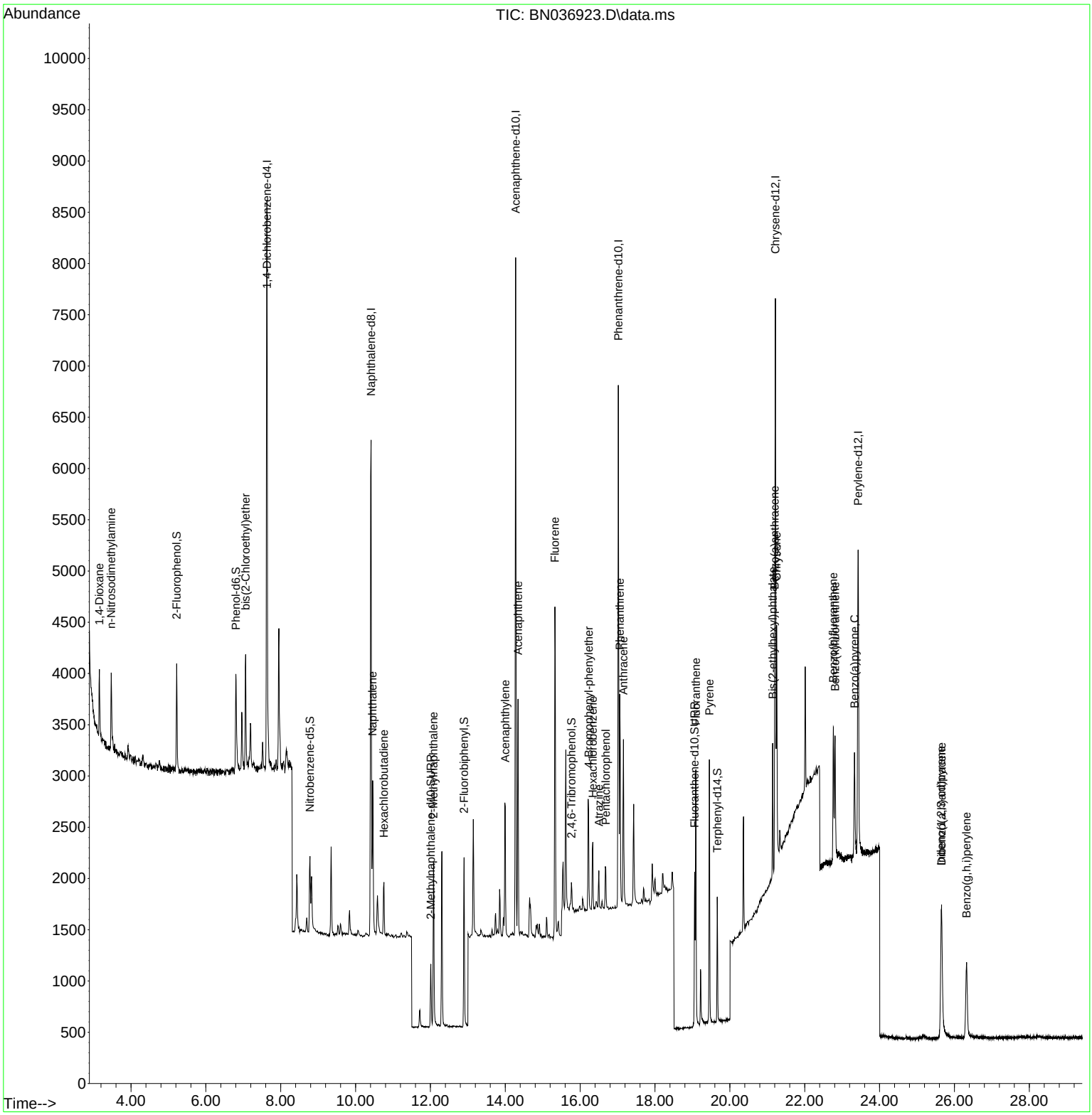
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042825\
Data File : BN036923.D
Acq On : 28 Apr 2025 11:35
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

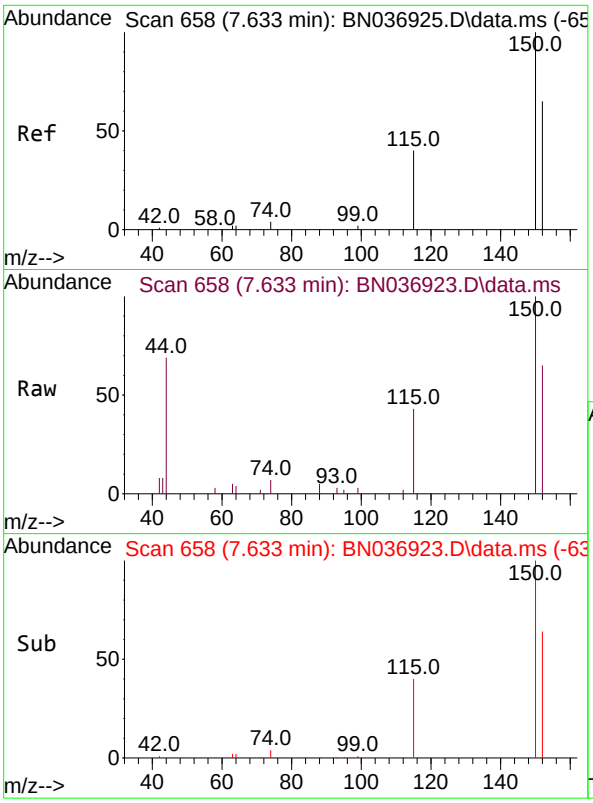
Quant Time: Apr 28 15:11:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:11:09 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025

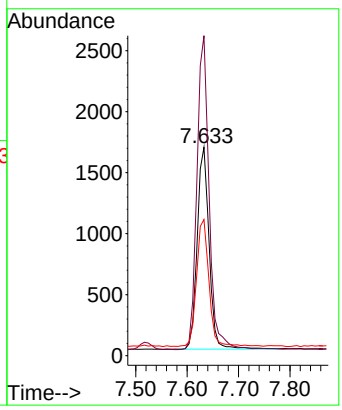




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.633 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

Tgt Ion:152 Resp: 267

Ion	Ratio	Lower	Upper
152	100		
150	153.7	121.1	181.7
115	65.4	51.8	77.6



Instrument :
BNA_N
ClientSampleId :
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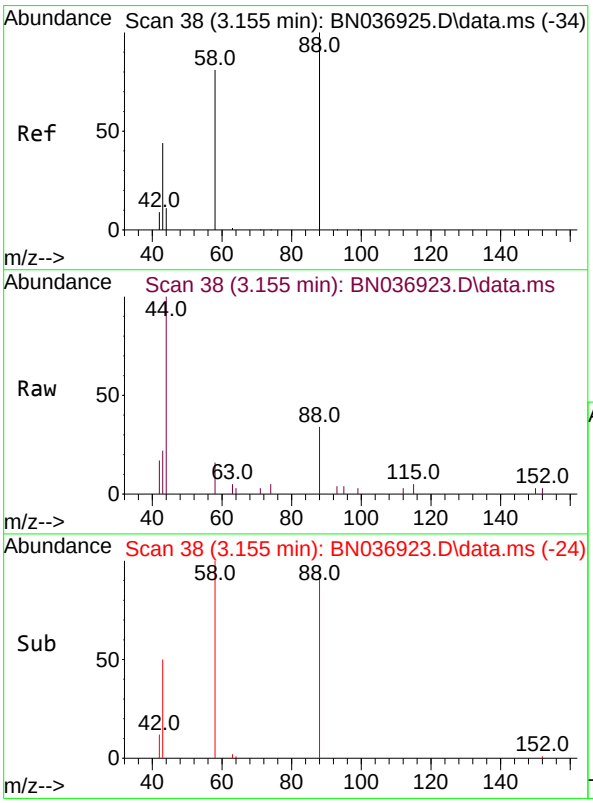
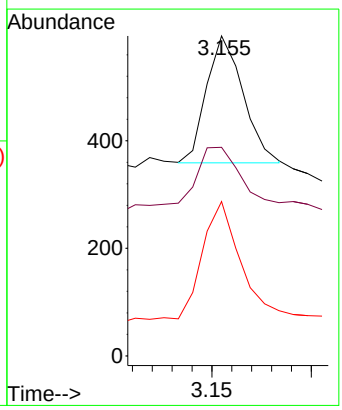
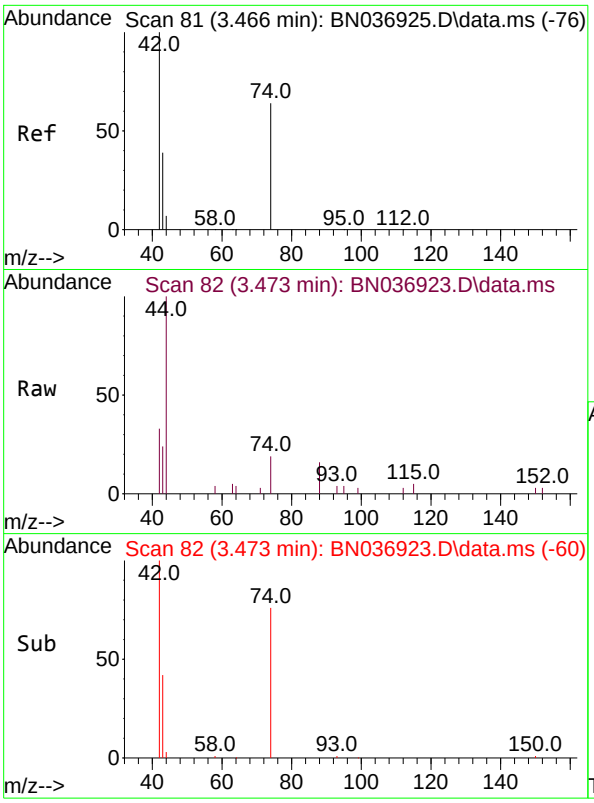


#2
1,4-Dioxane
Concen: 0.090 ng m
RT: 3.155 min Scan# 38
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

Tgt Ion: 88 Resp: 302

Ion	Ratio	Lower	Upper
88	100		
43	74.8	37.9	56.9#
58	106.0	65.8	98.6#

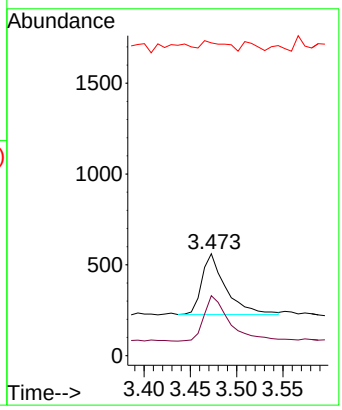




#3
n-Nitrosodimethylamine
Concen: 0.093 ng
RT: 3.473 min Scan# 8
Delta R.T. 0.007 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

Tgt Ion: 42 Resp: 60

Ion	Ratio	Lower	Upper
42	100		
74	80.8	59.9	89.9
44	15.4	7.5	11.3



Instrument :
BNA_N
ClientSampleId :
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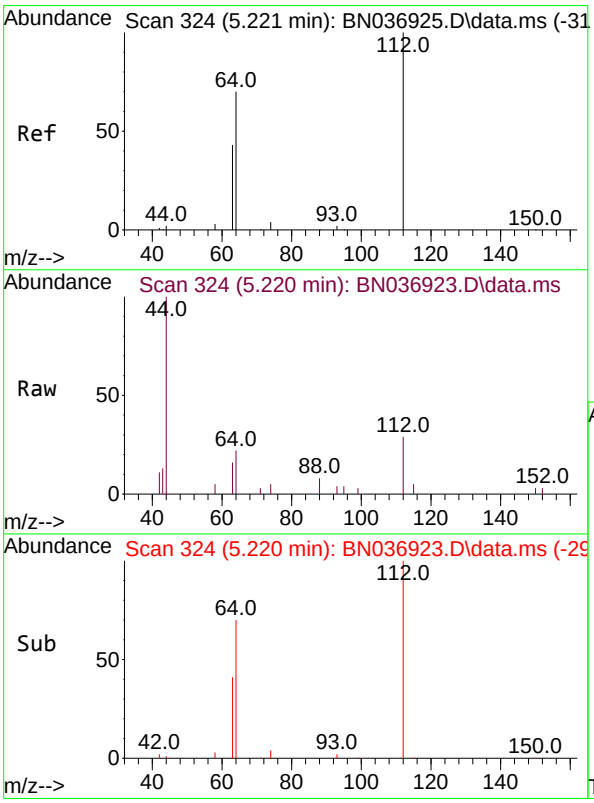
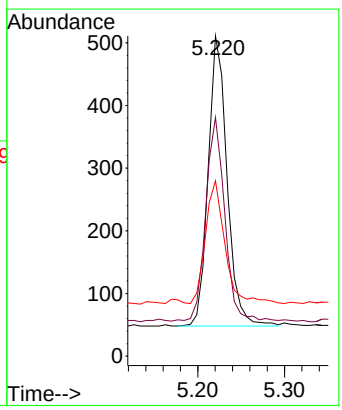
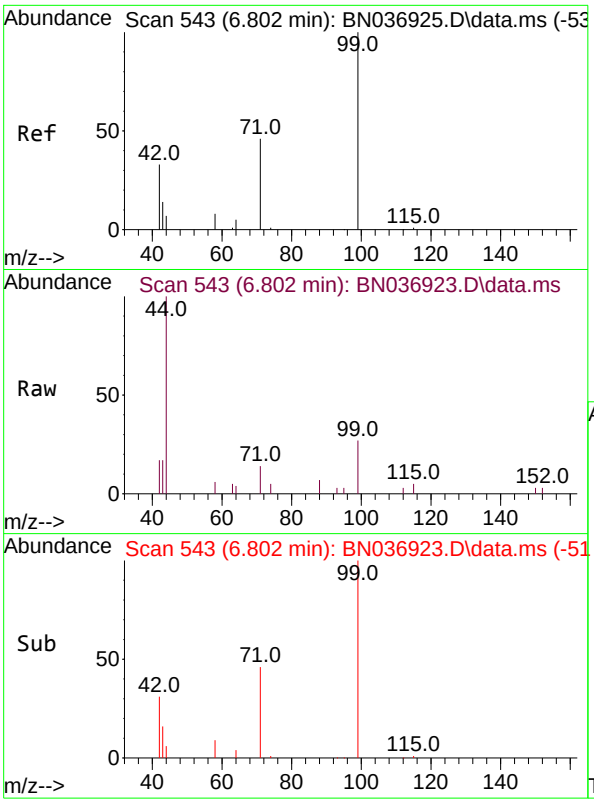


#4
2-Fluorophenol
Concen: 0.102 ng
RT: 5.220 min Scan# 324
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

Tgt Ion:112 Resp: 701

Ion	Ratio	Lower	Upper
112	100		
64	71.9	55.7	83.5
63	43.5	33.9	50.9

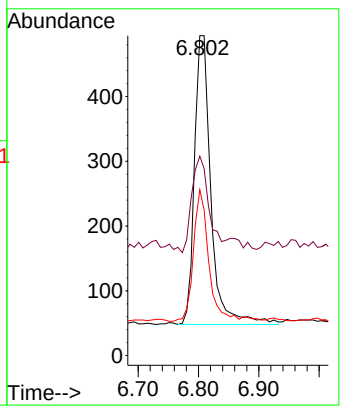




#5
Phenol-d6
Concen: 0.101 ng
RT: 6.802 min Scan# 54
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

Tgt Ion: 99 Resp: 848

Ion	Ratio	Lower	Upper
99	100		
42	35.0	29.6	44.4
71	41.5	36.0	54.0



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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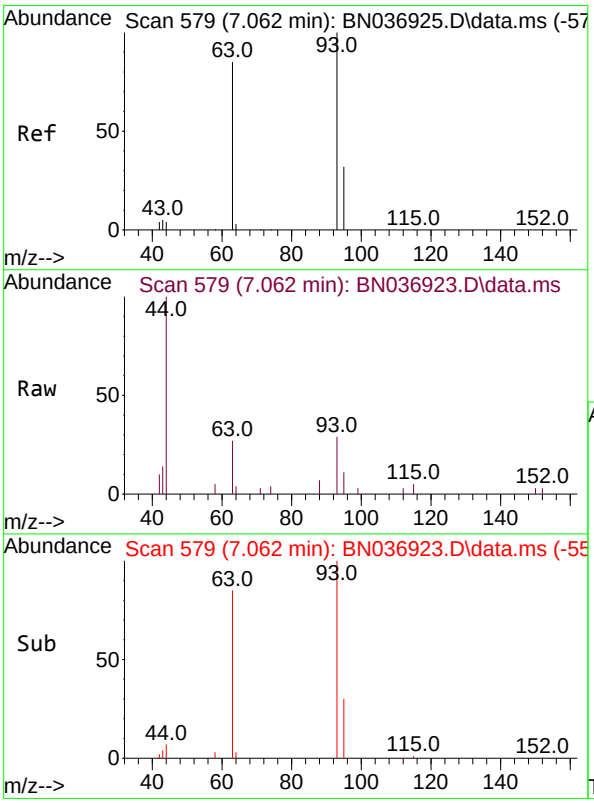
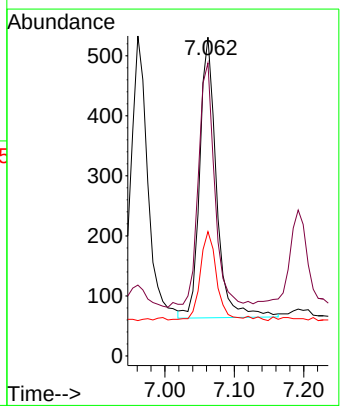
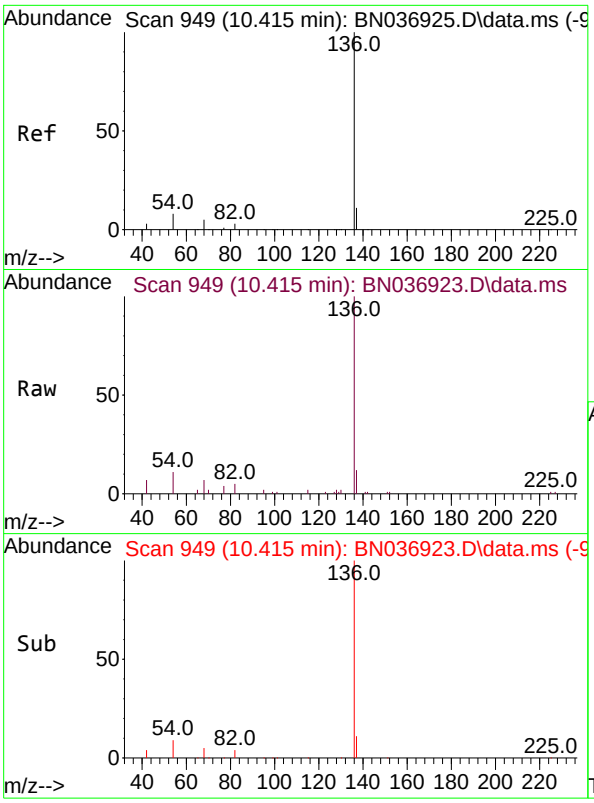


#6
bis(2-Chloroethyl)ether
Concen: 0.101 ng
RT: 7.062 min Scan# 579
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

Tgt Ion: 93 Resp: 784

Ion	Ratio	Lower	Upper
93	100		
63	85.7	69.0	103.6
95	29.5	25.4	38.0

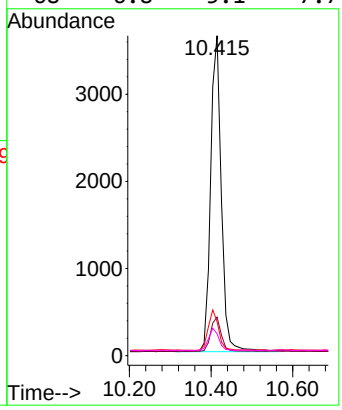




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.415 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

Tgt Ion:136 Resp: 657

Ion	Ratio	Lower	Upper
136	100		
137	12.0	9.7	14.5
54	10.6	8.0	12.0
68	6.8	5.1	7.7



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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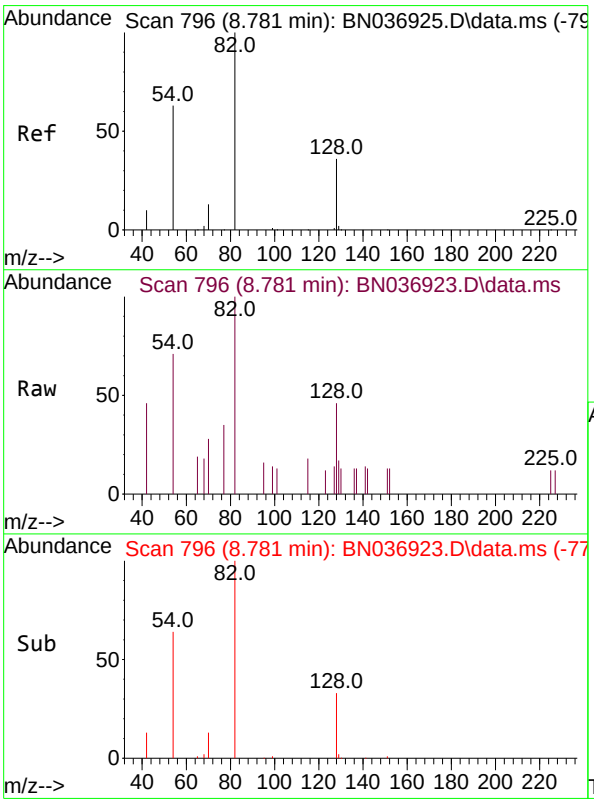
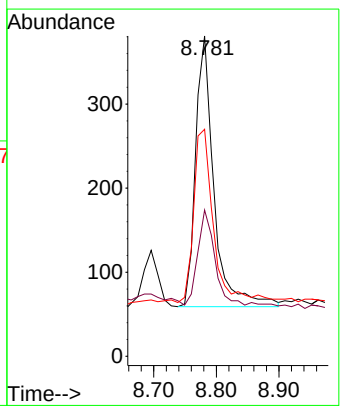
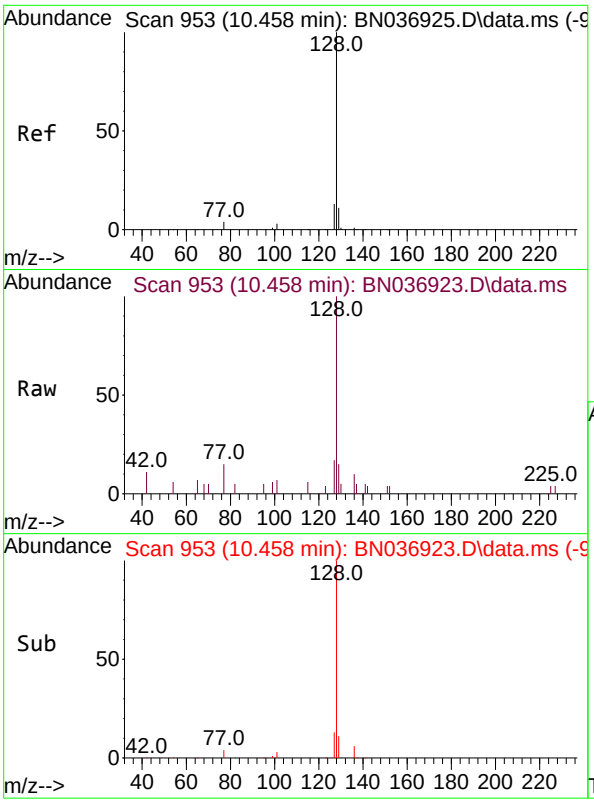


#8
Nitrobenzene-d5
Concen: 0.096 ng
RT: 8.781 min Scan# 796
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

Tgt Ion: 82 Resp: 657

Ion	Ratio	Lower	Upper
82	100		
128	45.7	30.7	46.1
54	70.9	52.1	78.1

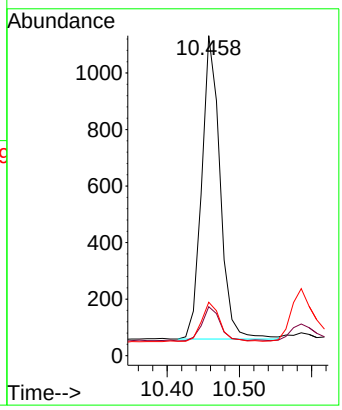




#9
Naphthalene
Concen: 0.099 ng
RT: 10.458 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

Tgt Ion:128 Resp: 189

Ion	Ratio	Lower	Upper
128	100		
129	15.3	9.8	14.6
127	16.7	11.4	17.2



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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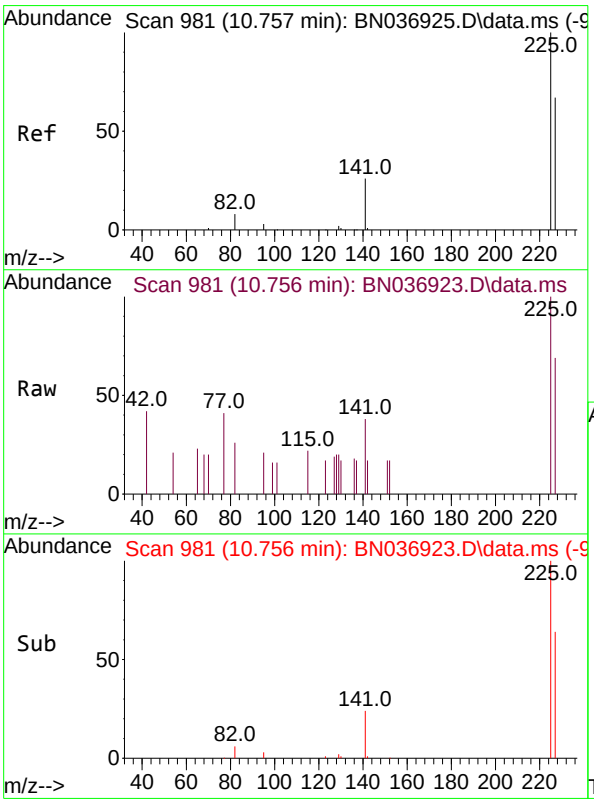
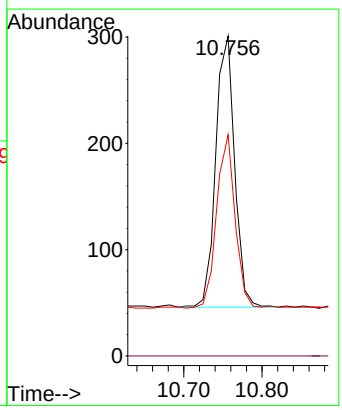
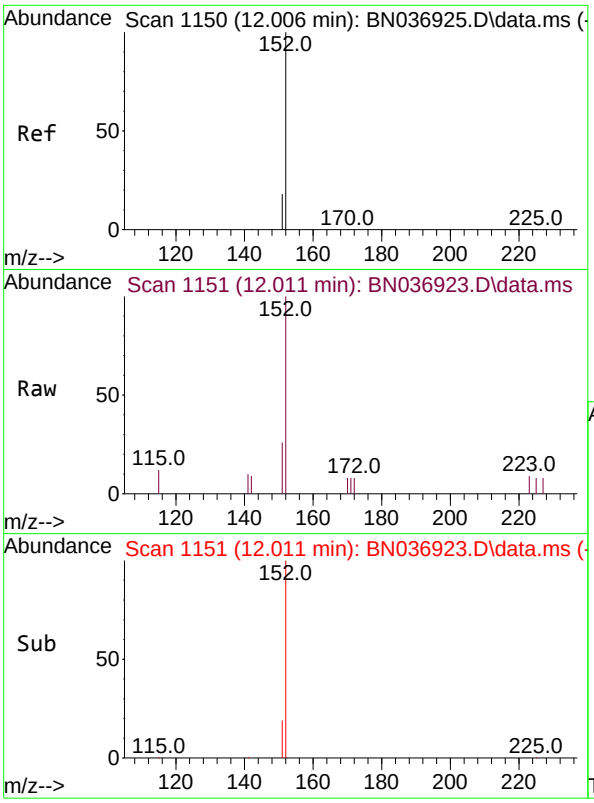


#10
Hexachlorobutadiene
Concen: 0.102 ng
RT: 10.756 min Scan# 981
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

Tgt Ion:225 Resp: 427

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.2	52.2	78.4

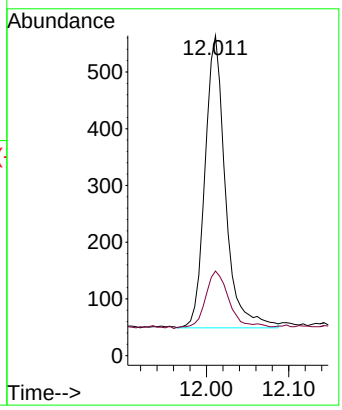




#11
2-Methylnaphthalene-d10
Concen: 0.097 ng
RT: 12.011 min Scan# 11
Delta R.T. 0.005 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

Tgt Ion:152 Resp: 88

Ion	Ratio	Lower	Upper
152	100		
151	23.2	16.9	25.3



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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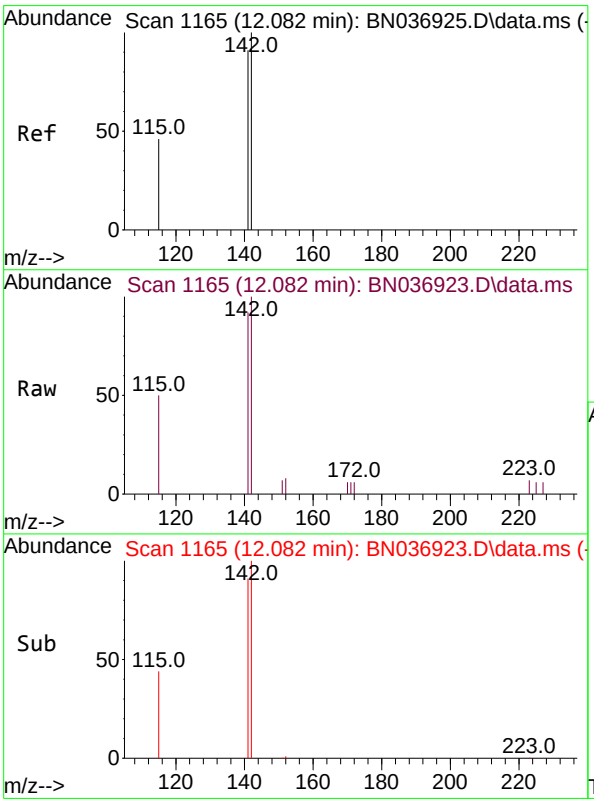
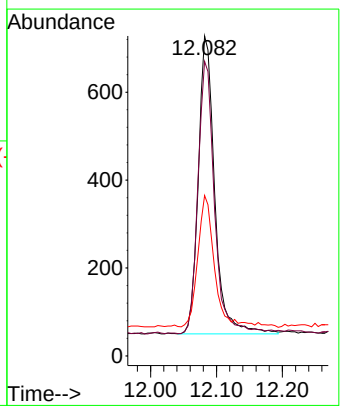
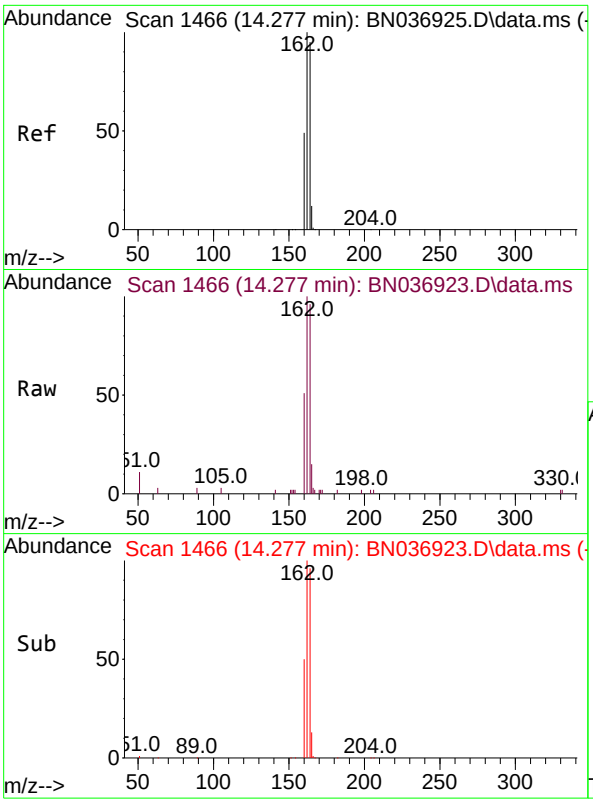


#12
2-Methylnaphthalene
Concen: 0.096 ng
RT: 12.082 min Scan# 1165
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

Tgt Ion:142 Resp: 1176

Ion	Ratio	Lower	Upper
142	100		
141	92.0	72.8	109.2
115	50.1	38.2	57.4

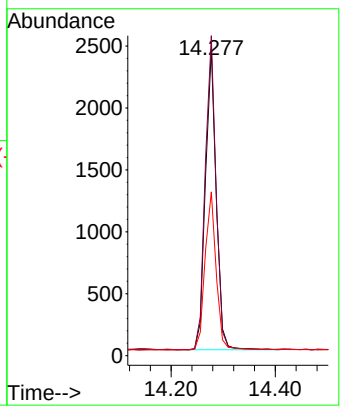




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.277 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

Tgt Ion:164 Resp: 348

Ion	Ratio	Lower	Upper
164	100		
162	104.4	83.8	125.8
160	53.4	42.0	63.0



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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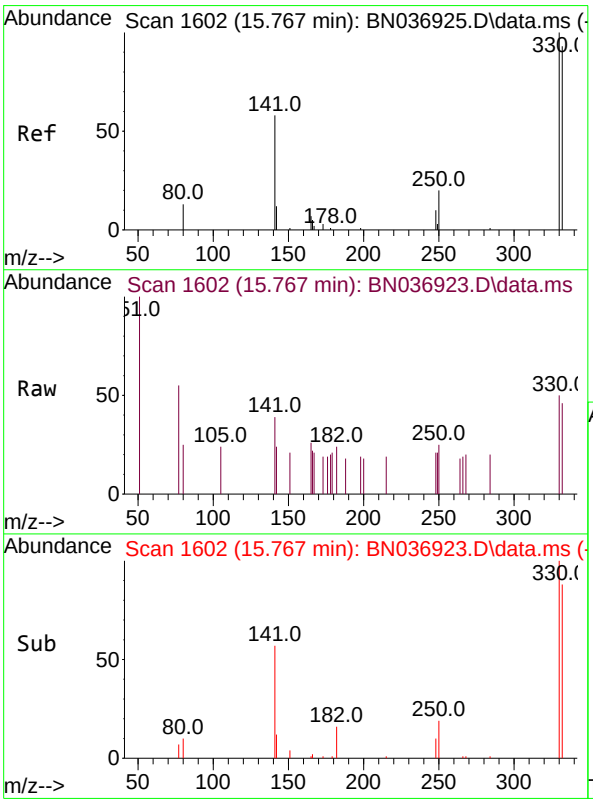
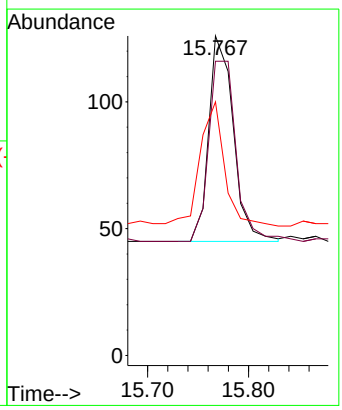
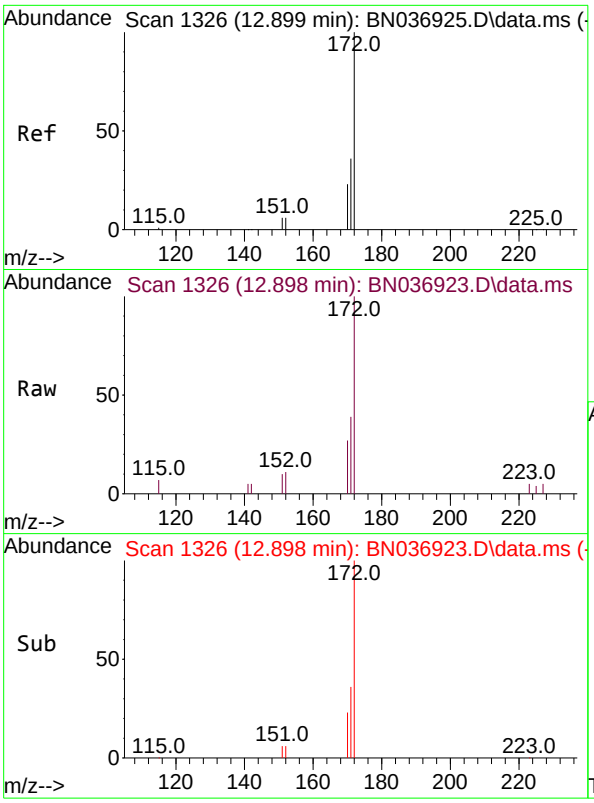


#14
2,4,6-Tribromophenol
Concen: 0.089 ng
RT: 15.767 min Scan# 1602
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

Tgt Ion:330 Resp: 136

Ion	Ratio	Lower	Upper
330	100		
332	99.3	76.3	114.5
141	61.0	45.4	68.2

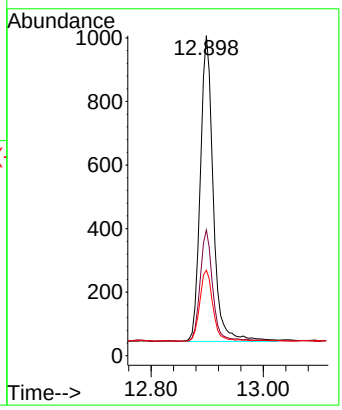




#15
2-Fluorobiphenyl
Concen: 0.097 ng
RT: 12.898 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

Tgt Ion:172 Resp: 163

Ion	Ratio	Lower	Upper
172	100		
171	39.3	29.4	44.0
170	26.7	19.4	29.0



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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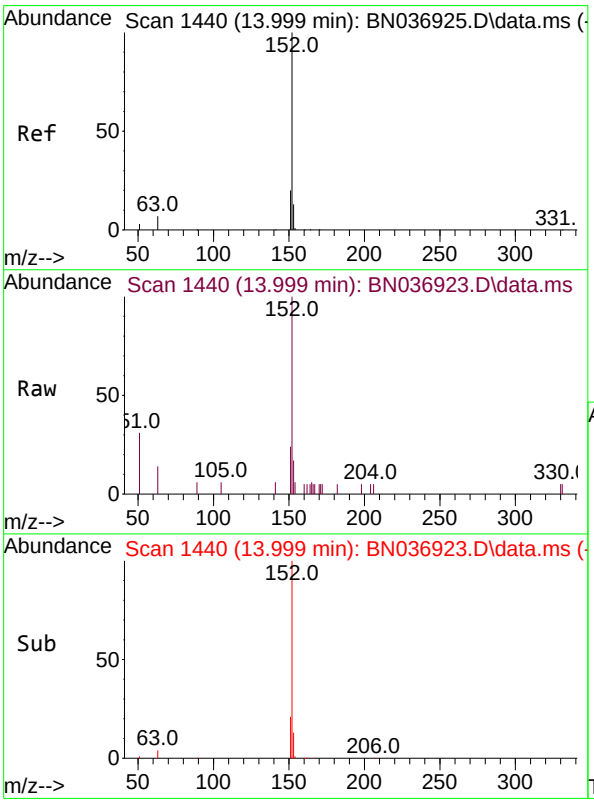
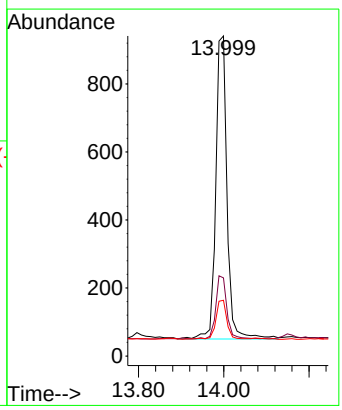
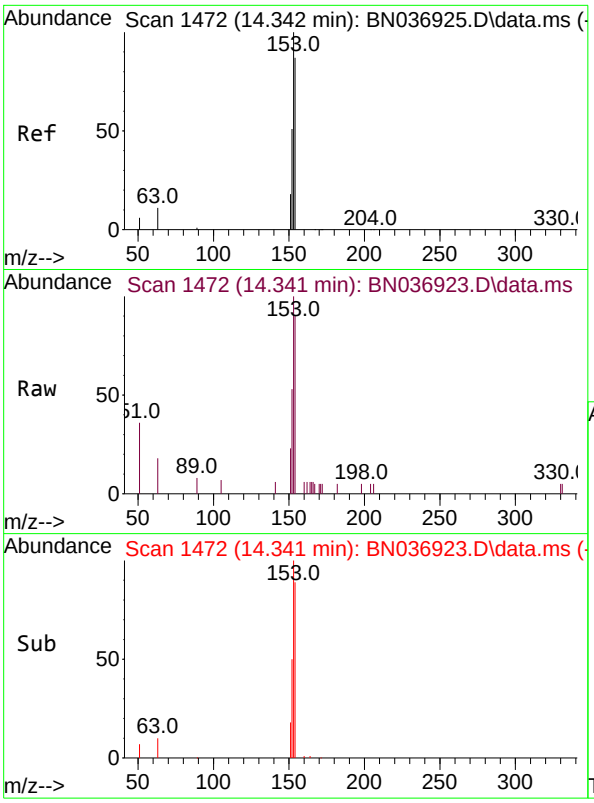


#16
Acenaphthylene
Concen: 0.097 ng
RT: 13.999 min Scan# 1440
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

Tgt Ion:152 Resp: 1635

Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.0	24.0
153	12.7	10.2	15.2

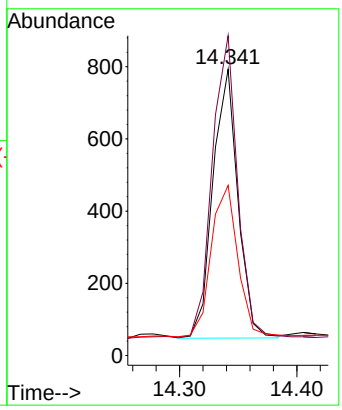




#17
Acenaphthene
Concen: 0.099 ng
RT: 14.341 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

Tgt Ion:154 Resp: 110

Ion	Ratio	Lower	Upper
154	100		
153	115.4	93.4	140.2
152	60.2	49.5	74.3



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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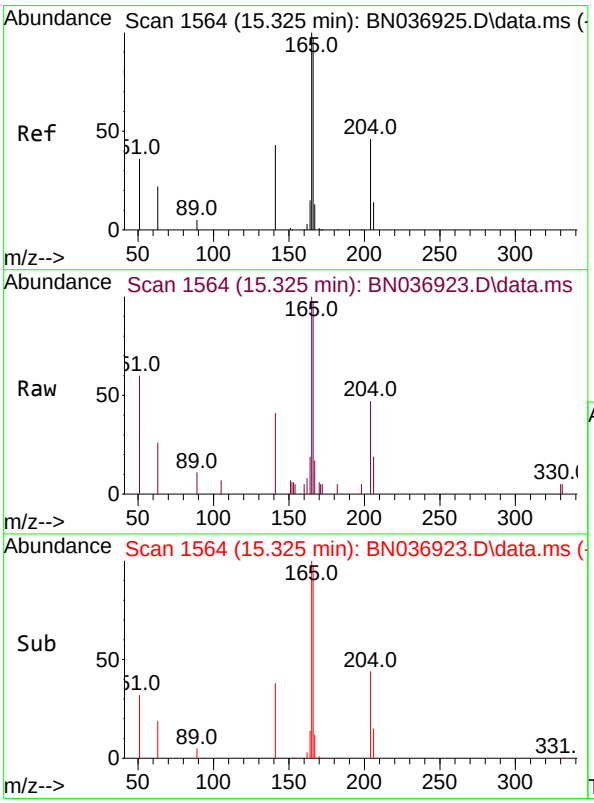
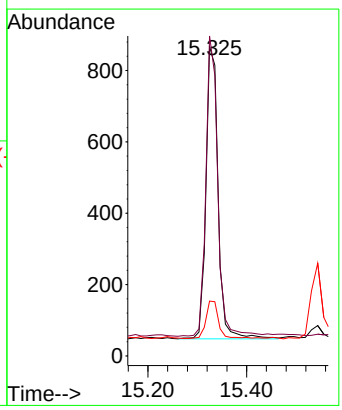
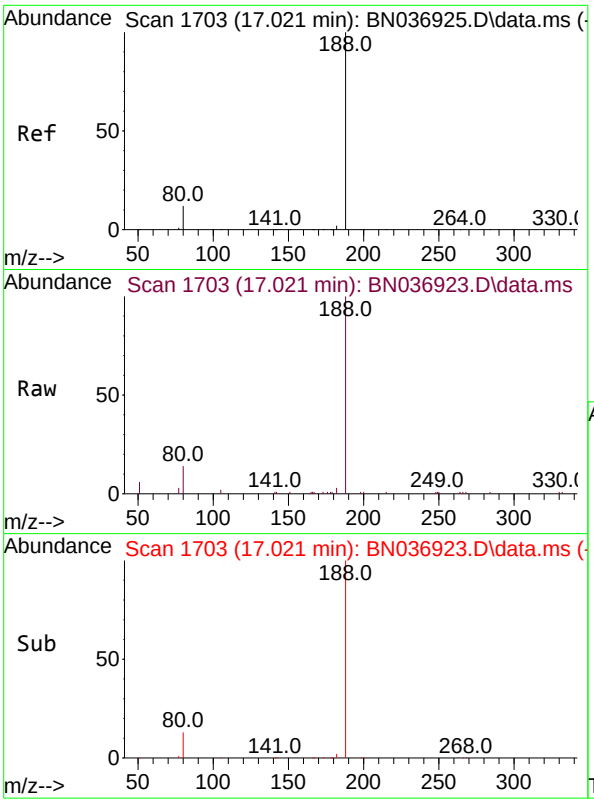


#18
Fluorene
Concen: 0.096 ng
RT: 15.325 min Scan# 1564
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

Tgt Ion:166 Resp: 1398

Ion	Ratio	Lower	Upper
166	100		
165	99.7	80.8	121.2
167	13.4	10.8	16.2

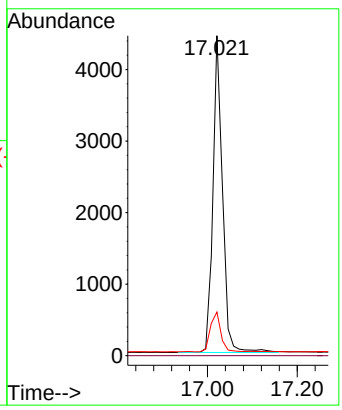




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.021 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

Tgt Ion:188 Resp: 651

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	13.7	10.7	16.1



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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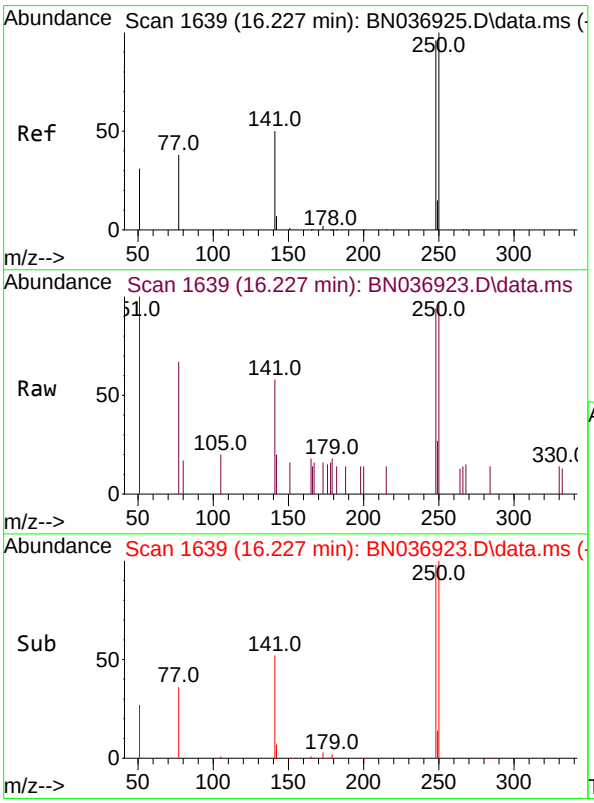
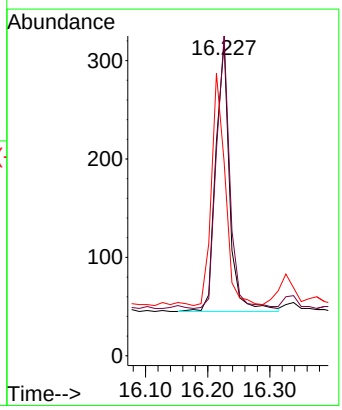
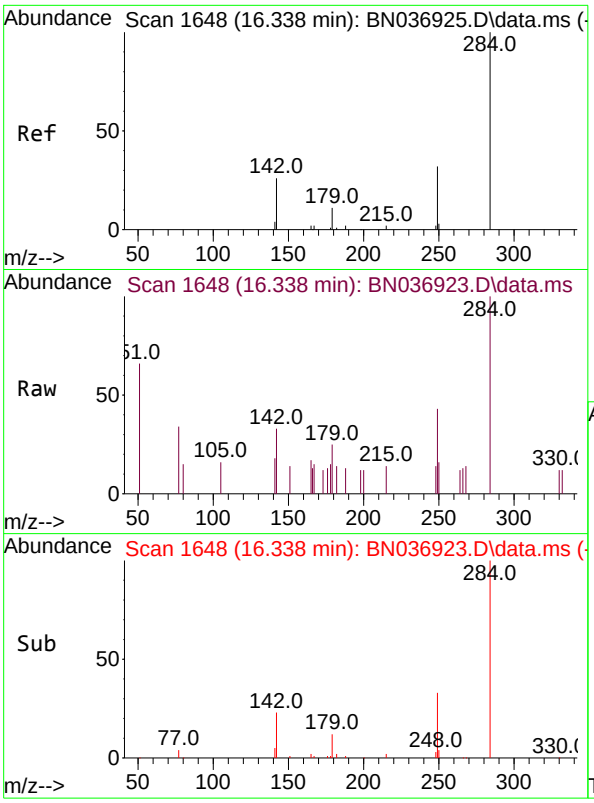


#21
4-Bromophenyl-phenylether
Concen: 0.098 ng
RT: 16.227 min Scan# 1639
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

Tgt Ion:248 Resp: 424

Ion	Ratio	Lower	Upper
248	100		
250	102.2	83.7	125.5
141	61.9	43.8	65.8

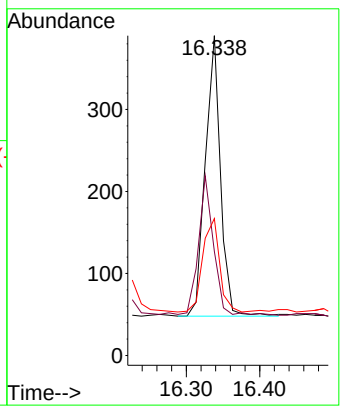




#22
Hexachlorobenzene
Concen: 0.102 ng
RT: 16.338 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

Tgt Ion:284 Resp: 49

Ion	Ratio	Lower	Upper
284	100		
142	51.0	40.0	60.0
249	37.8	28.2	42.2



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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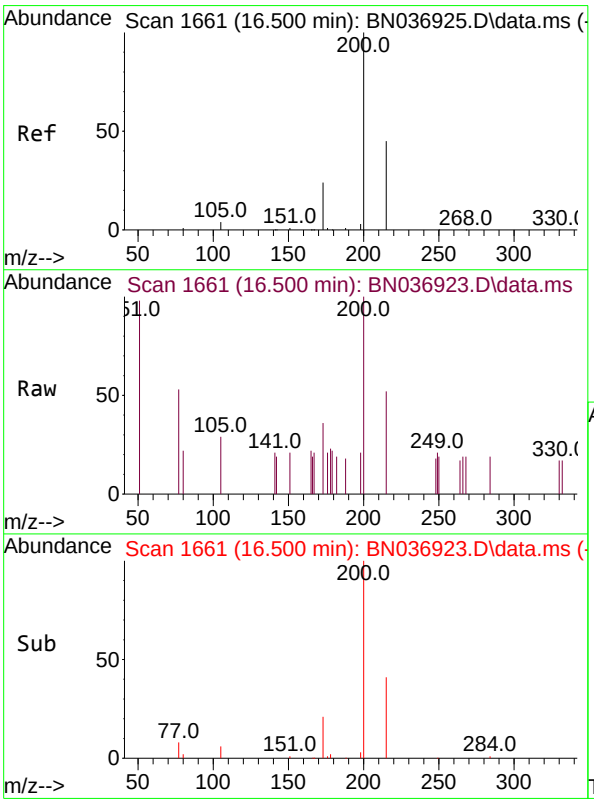
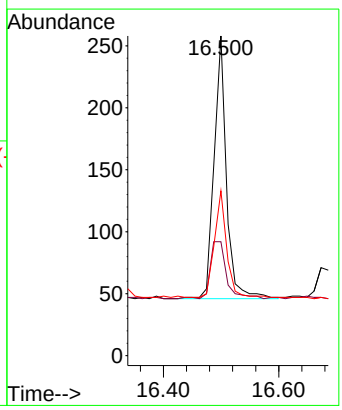
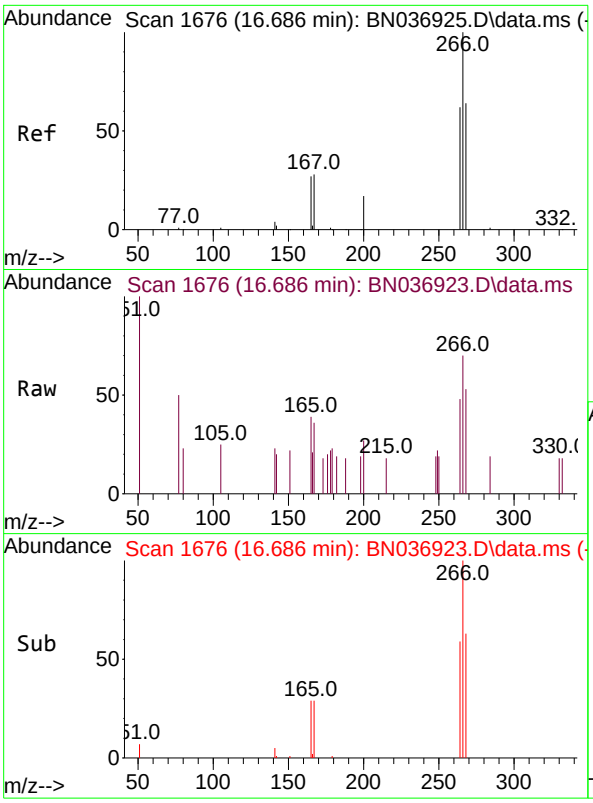


#23
Atrazine
Concen: 0.092 ng
RT: 16.500 min Scan# 1661
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

Tgt Ion:200 Resp: 314

Ion	Ratio	Lower	Upper
200	100		
173	35.7	22.4	33.6#
215	51.6	38.6	57.8

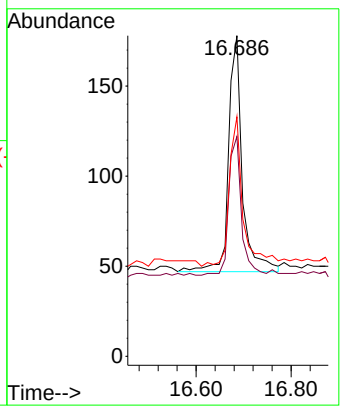




#24
Pentachlorophenol
Concen: 0.105 ng
RT: 16.686 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

Tgt Ion:266 Resp: 26

Ion	Ratio	Lower	Upper
266	100		
264	54.0	49.9	74.9
268	61.3	52.2	78.4



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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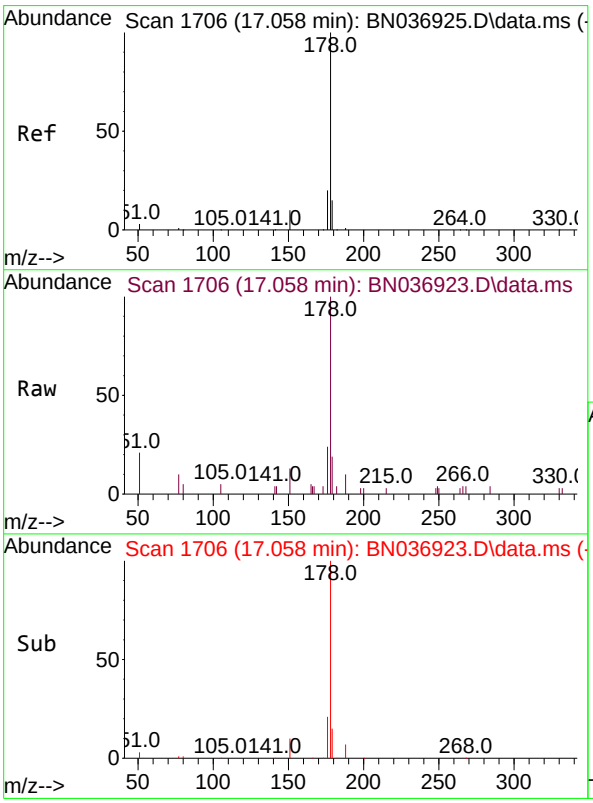
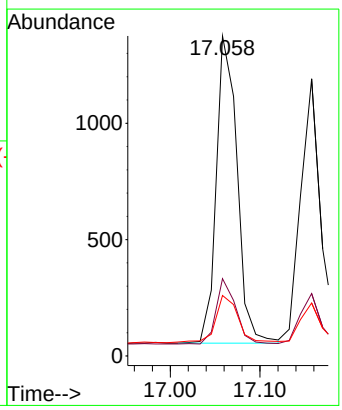
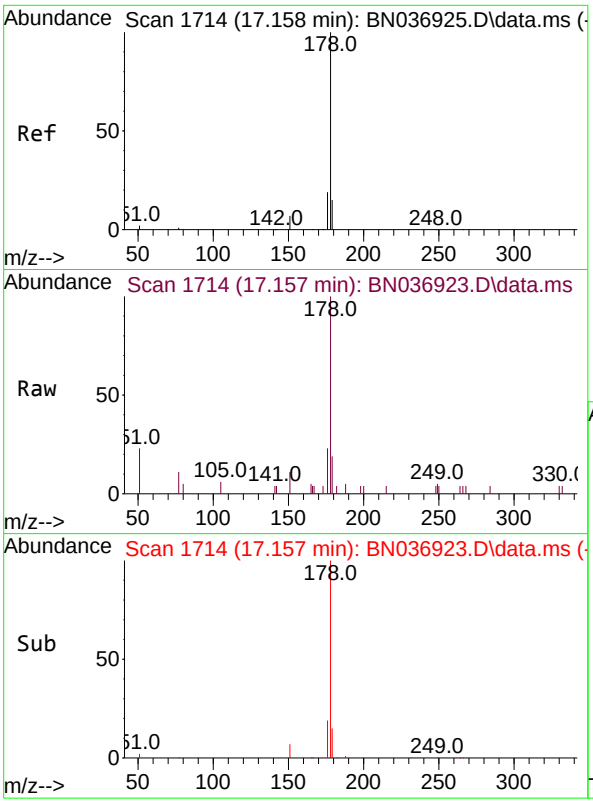


#25
Phenanthrene
Concen: 0.099 ng
RT: 17.058 min Scan# 1706
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

Tgt Ion:178 Resp: 2132

Ion	Ratio	Lower	Upper
178	100		
176	19.9	15.7	23.5
179	16.7	12.4	18.6

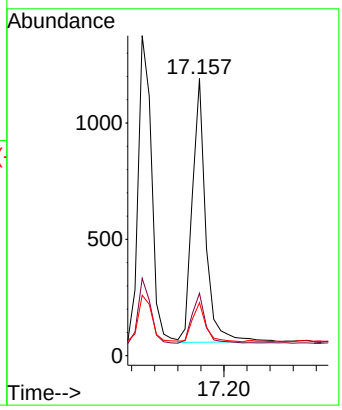




#26
Anthracene
Concen: 0.096 ng
RT: 17.157 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

Tgt Ion:178 Resp: 184

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.3	22.9
179	15.1	12.1	18.1



Instrument :
BNA_N
ClientSampleId :
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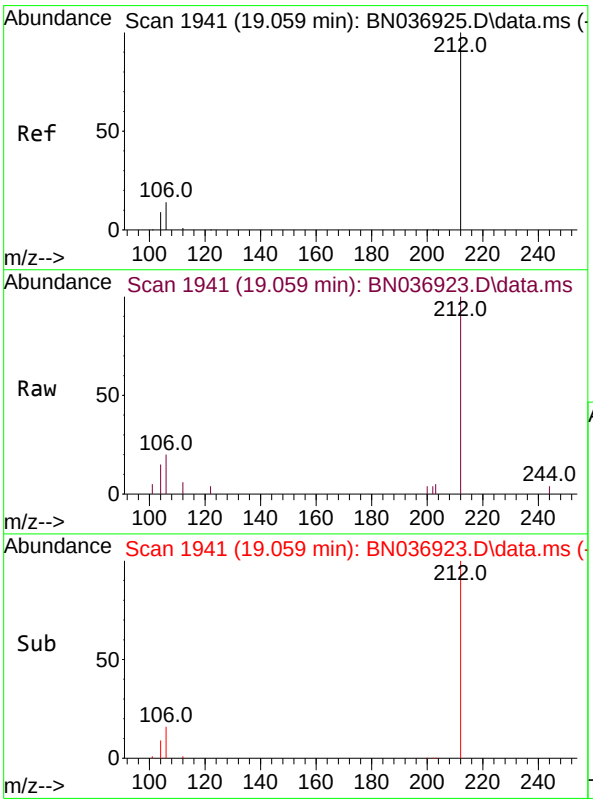
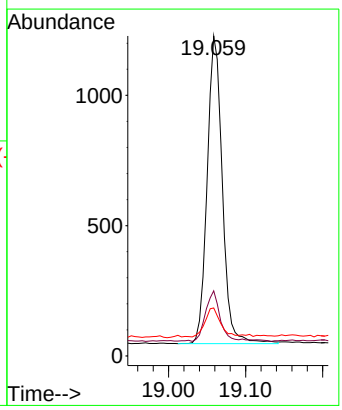
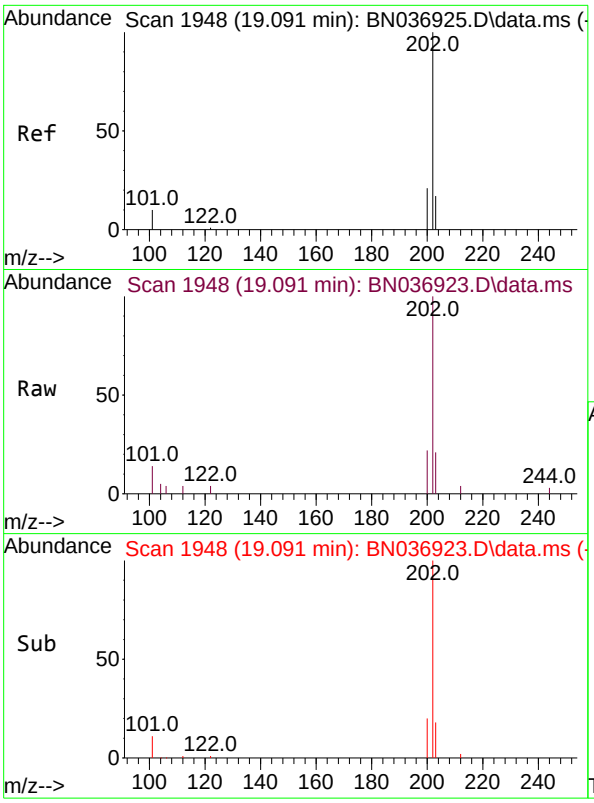


#27
Fluoranthene-d10
Concen: 0.097 ng
RT: 19.059 min Scan# 1941
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

Tgt Ion:212 Resp: 1617

Ion	Ratio	Lower	Upper
212	100		
106	16.3	11.6	17.4
104	9.3	7.0	10.4

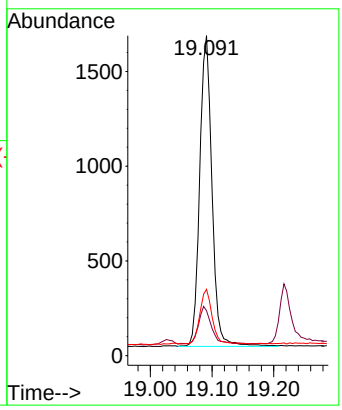




#28
Fluoranthene
Concen: 0.095 ng
RT: 19.091 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

Tgt Ion:202 Resp: 225

Ion	Ratio	Lower	Upper
202	100		
101	12.3	8.5	12.7
203	17.9	13.7	20.5



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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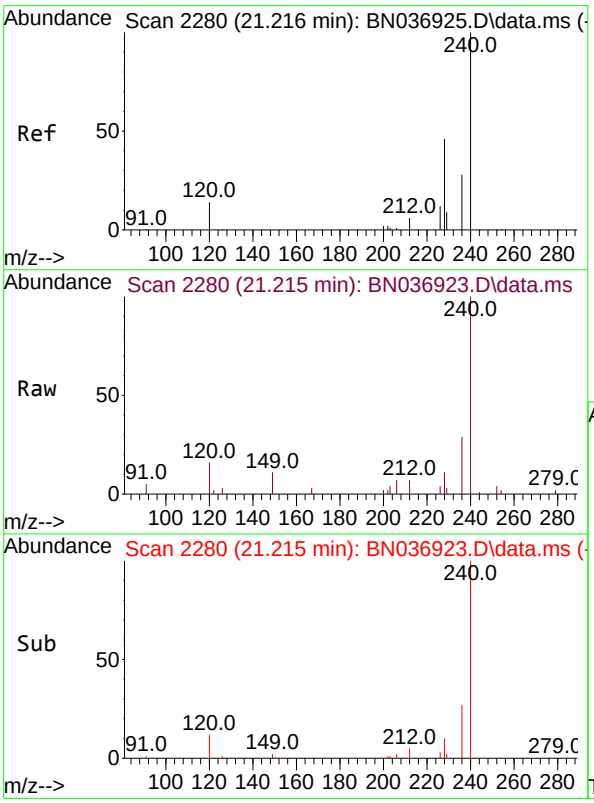
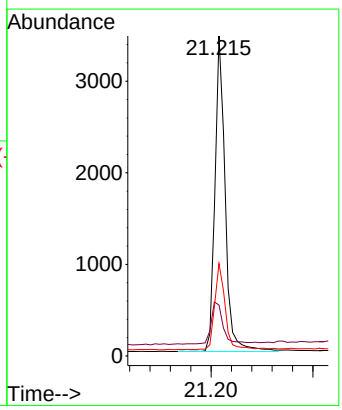
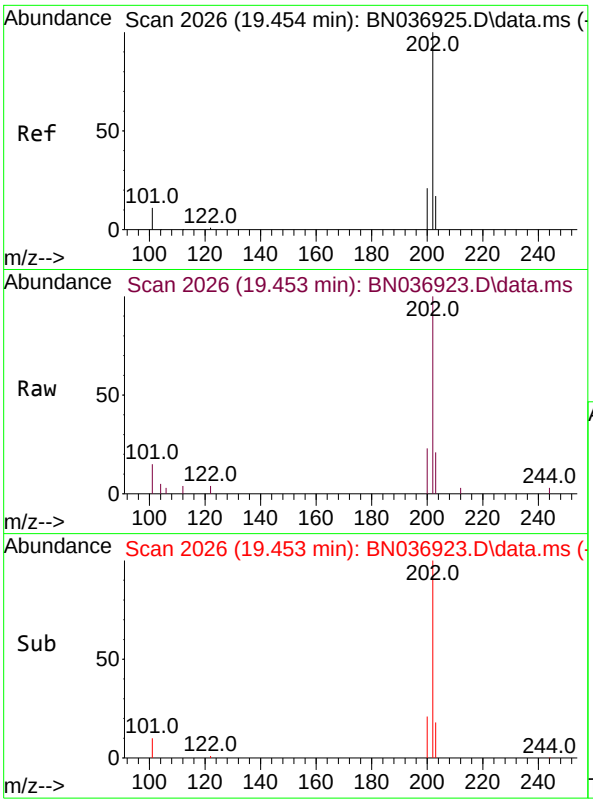


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.215 min Scan# 2280
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

Tgt Ion:240 Resp: 4809

Ion	Ratio	Lower	Upper
240	100		
120	15.9	14.1	21.1
236	28.9	23.8	35.8

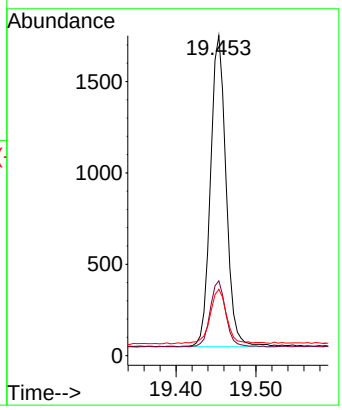




#30
Pyrene
Concen: 0.099 ng
RT: 19.453 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

Tgt Ion:202 Resp: 230

Ion	Ratio	Lower	Upper
202	100		
200	20.9	17.0	25.6
203	19.4	14.0	21.0



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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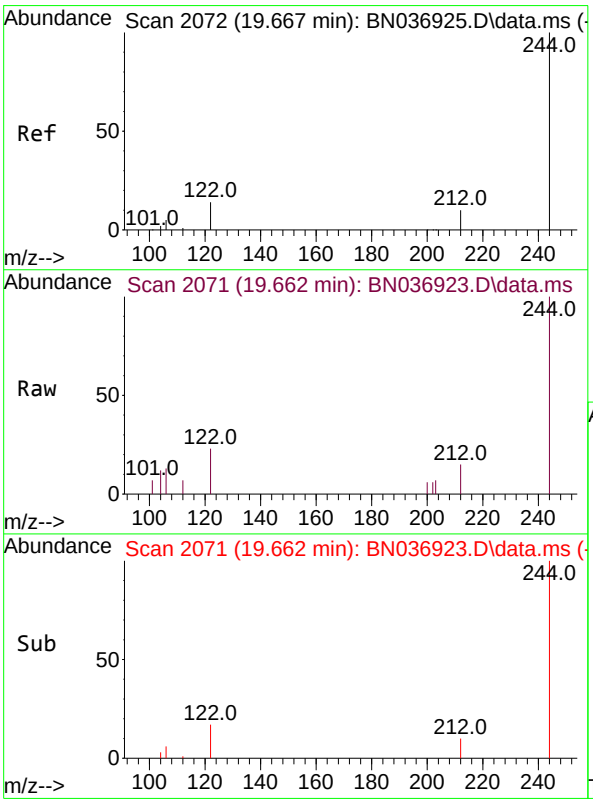
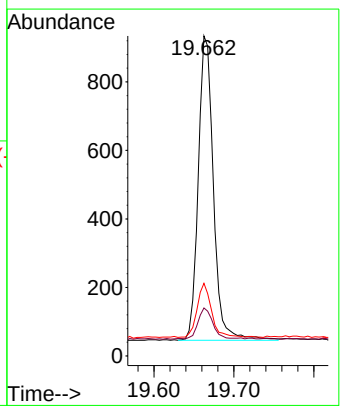
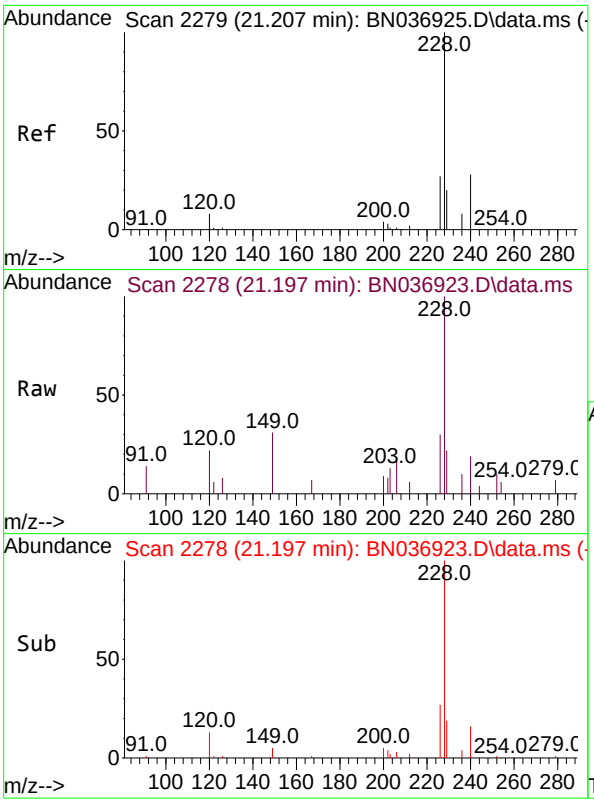


#31
Terphenyl-d14
Concen: 0.102 ng
RT: 19.662 min Scan# 2071
Delta R.T. -0.005 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

Tgt Ion:244 Resp: 1171

Ion	Ratio	Lower	Upper
244	100		
212	15.0	9.6	14.4#
122	22.7	12.7	19.1#

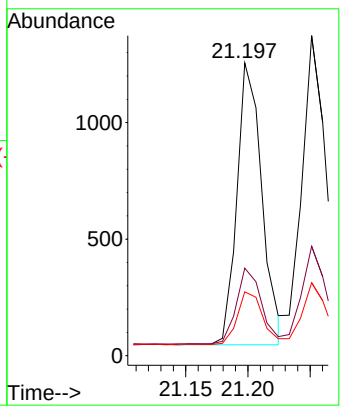




#32
Benzo(a)anthracene
Concen: 0.096 ng
RT: 21.197 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

Tgt Ion:228 Resp: 168

Ion	Ratio	Lower	Upper
228	100		
226	29.9	22.2	33.4
229	21.8	16.4	24.6



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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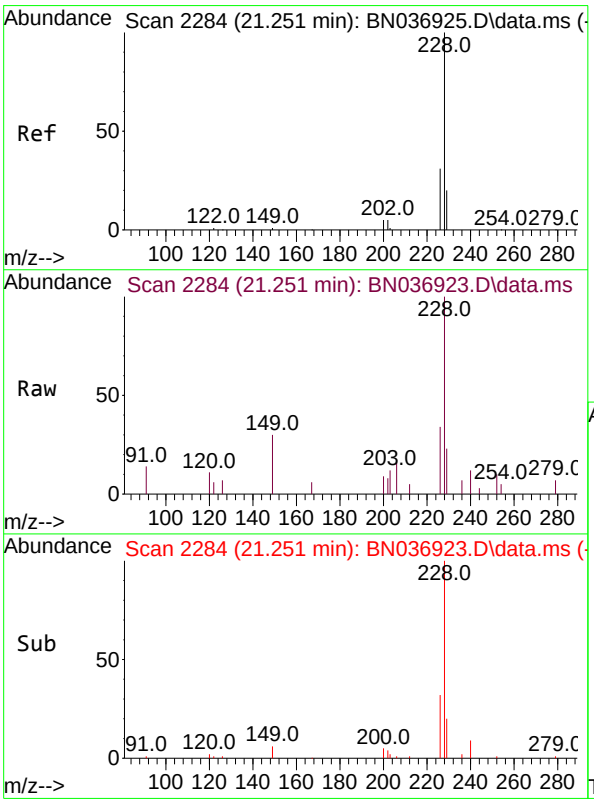
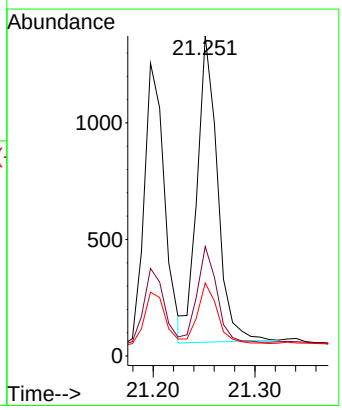
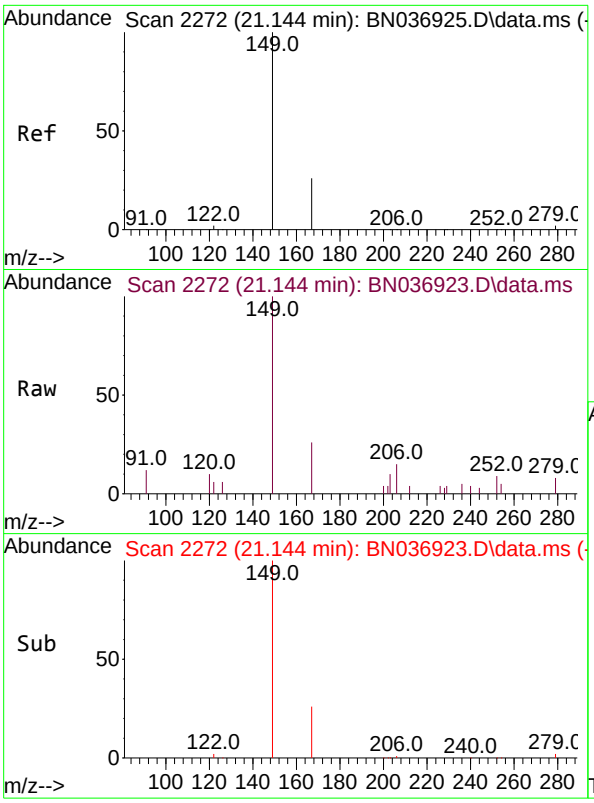


#33
Chrysene
Concen: 0.095 ng
RT: 21.251 min Scan# 2284
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

Tgt Ion:228 Resp: 1824

Ion	Ratio	Lower	Upper
228	100		
226	34.2	25.5	38.3
229	22.8	16.5	24.7

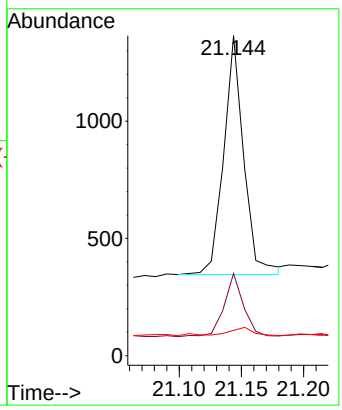




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.114 ng
RT: 21.144 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

Tgt Ion:149 Resp: 114

Ion	Ratio	Lower	Upper
149	100		
167	25.9	21.0	31.6
279	3.7	2.7	4.1



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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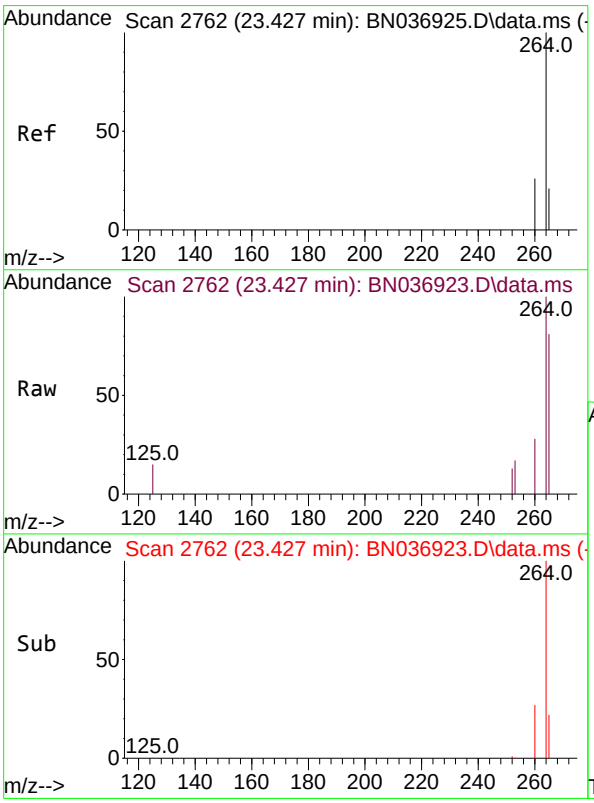
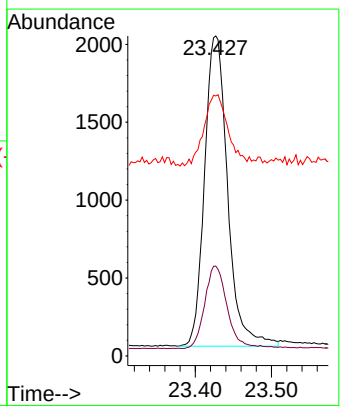
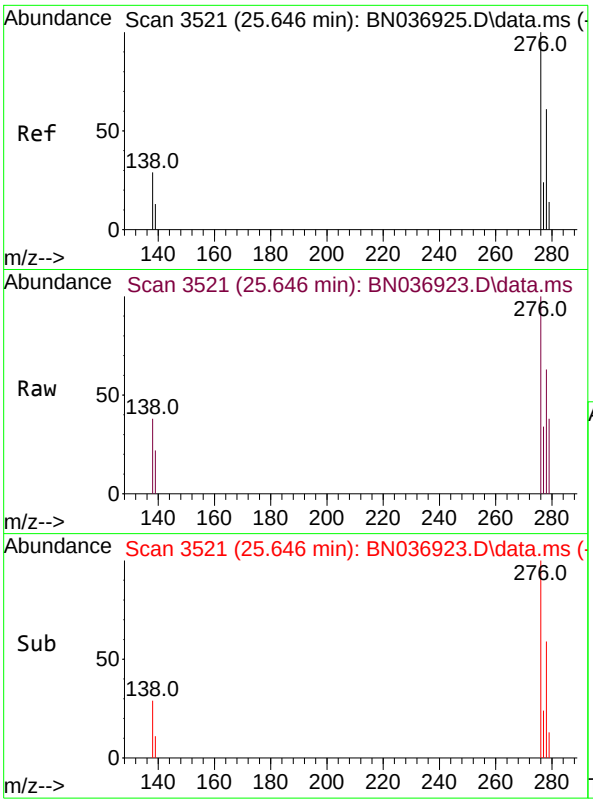


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.427 min Scan# 2762
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

Tgt Ion:264 Resp: 4185

Ion	Ratio	Lower	Upper
264	100		
260	28.1	22.2	33.2
265	81.3	65.8	98.6

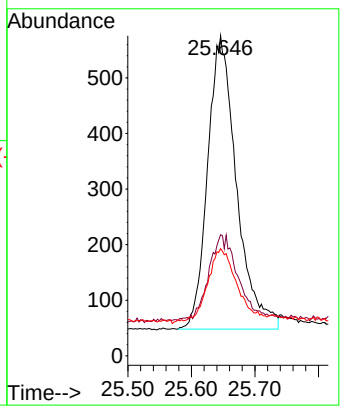




#36
Indeno(1,2,3-cd)pyrene
Concen: 0.097 ng
RT: 25.646 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

Tgt Ion:276 Resp: 166

Ion	Ratio	Lower	Upper
276	100		
138	29.5	23.0	34.6
277	24.7	20.0	30.0



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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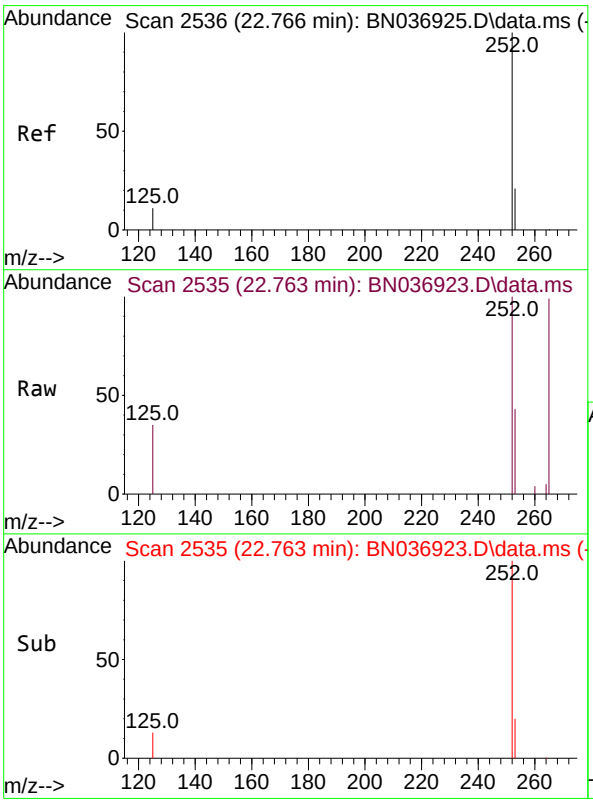
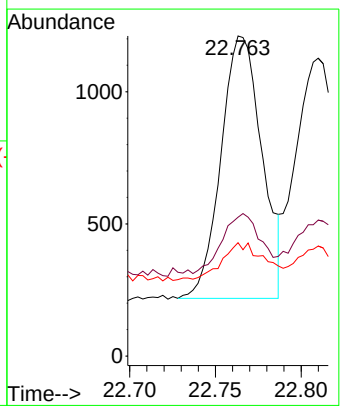
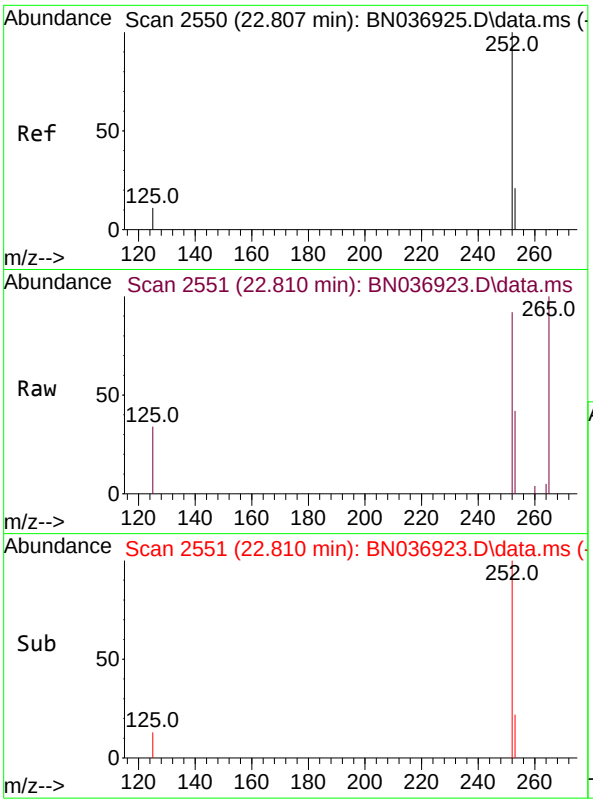


#37
Benzo(b)fluoranthene
Concen: 0.095 ng
RT: 22.763 min Scan# 2535
Delta R.T. -0.003 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

Tgt Ion:252 Resp: 1653

Ion	Ratio	Lower	Upper
252	100		
253	43.4	22.1	33.1#
125	35.4	14.2	21.2#

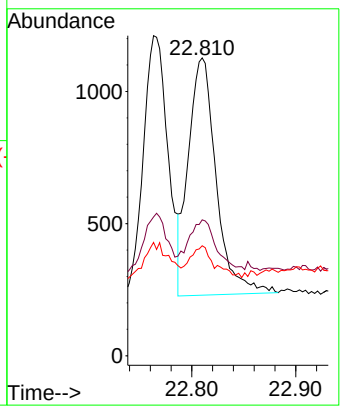




#38
Benzo(k)fluoranthene
Concen: 0.096 ng
RT: 22.810 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

Tgt Ion:252 Resp: 167

Ion	Ratio	Lower	Upper
252	100		
253	45.6	22.8	34.2#
125	36.9	14.2	21.2#



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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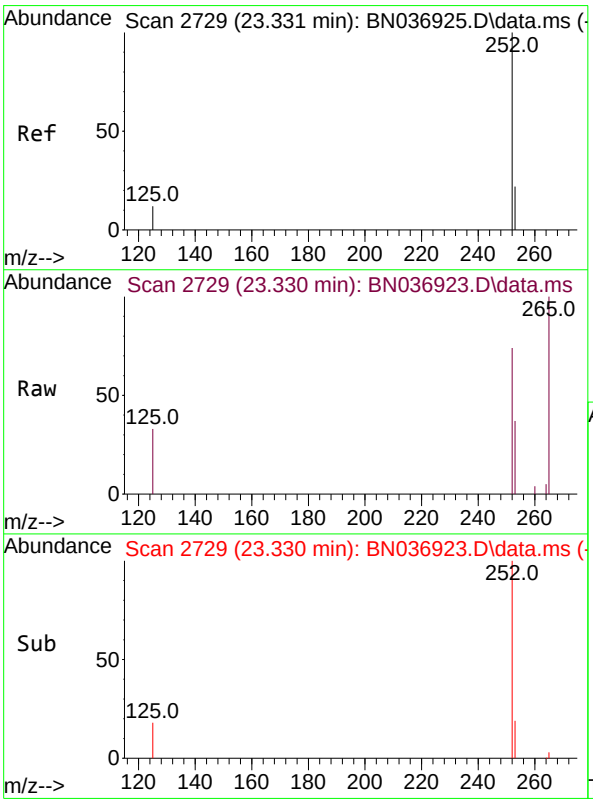
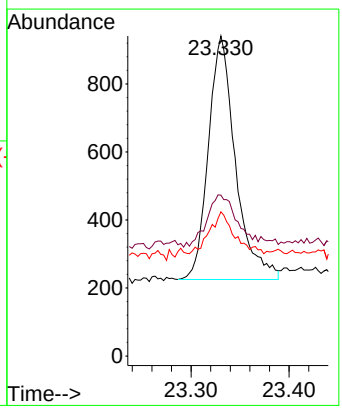
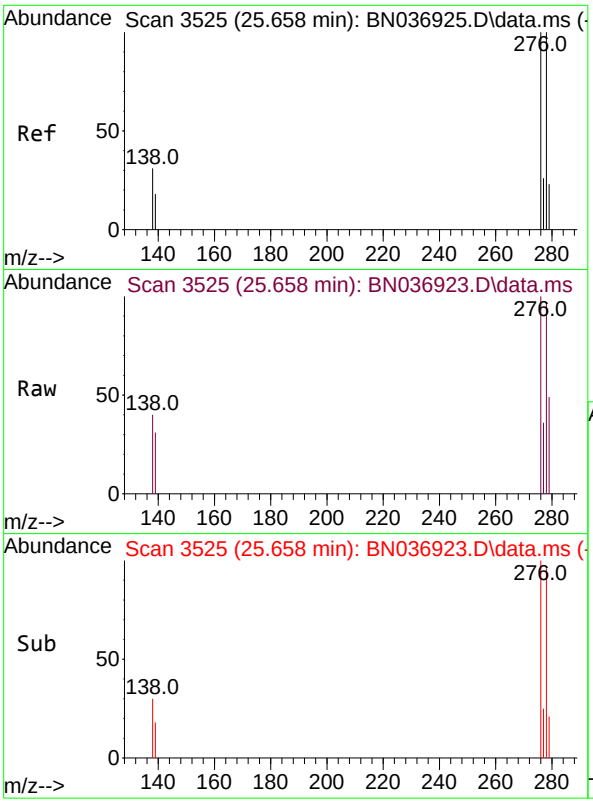


#39
Benzo(a)pyrene
Concen: 0.096 ng
RT: 23.330 min Scan# 2729
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

Tgt Ion:252 Resp: 1376

Ion	Ratio	Lower	Upper
252	100		
253	50.3	25.9	38.9#
125	45.1	17.4	26.0#

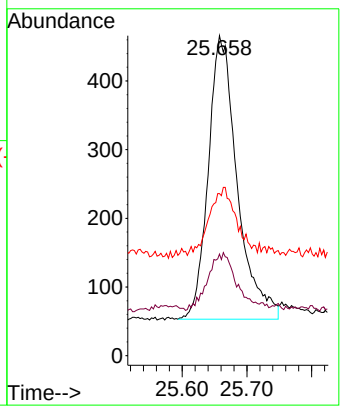




#40
Dibenzo(a,h)anthracene
Concen: 0.095 ng
RT: 25.658 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

Tgt Ion:278 Resp: 128

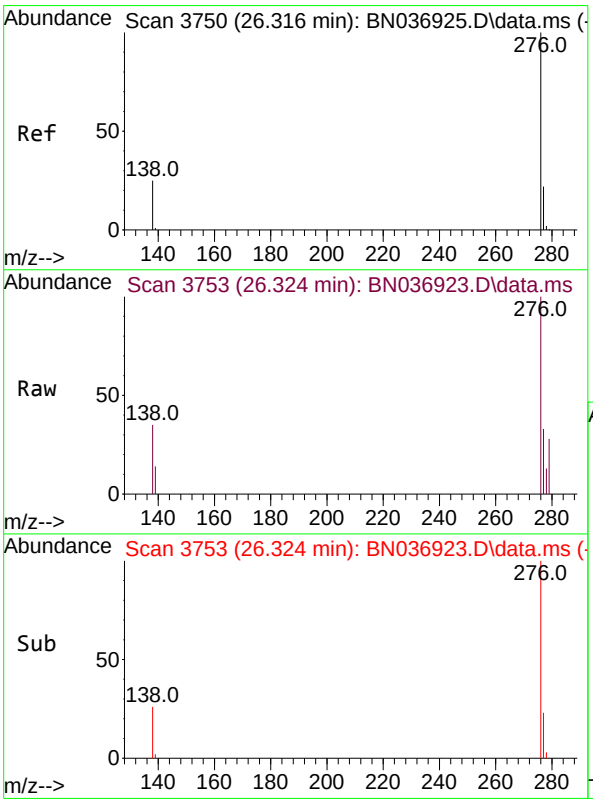
Ion	Ratio	Lower	Upper
278	100		
139	31.8	17.4	26.2#
279	50.6	24.9	37.3#



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

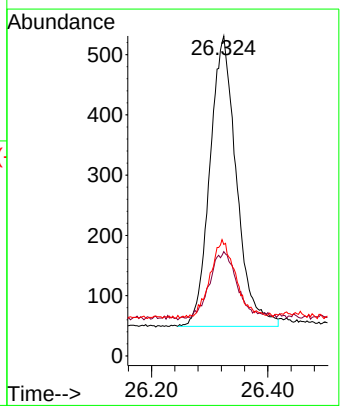
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025



#41
Benzo(g,h,i)perylene
Concen: 0.101 ng
RT: 26.324 min Scan# 3753
Delta R.T. 0.009 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

Tgt Ion:276 Resp: 1527

Ion	Ratio	Lower	Upper
276	100		
277	32.6	20.2	30.2#
138	34.8	21.9	32.9#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042825\
Data File : BN036924.D
Acq On : 28 Apr 2025 12:11
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025

Quant Time: Apr 28 15:12:22 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:11:09 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.633	152	2482	0.400	ng		0.00
7) Naphthalene-d8	10.415	136	6094	0.400	ng		0.00
13) Acenaphthene-d10	14.277	164	3232	0.400	ng		0.00
19) Phenanthrene-d10	17.021	188	6237	0.400	ng		0.00
29) Chrysene-d12	21.216	240	4535	0.400	ng		0.00
35) Perylene-d12	23.430	264	4026	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.221	112	1310	0.205	ng		0.00
5) Phenol-d6	6.802	99	1535	0.197	ng		0.00
8) Nitrobenzene-d5	8.781	82	1223	0.193	ng		0.00
11) 2-Methylnaphthalene-d10	12.006	152	1620	0.192	ng		0.00
14) 2,4,6-Tribromophenol	15.767	330	279	0.197	ng		0.00
15) 2-Fluorobiphenyl	12.899	172	3191	0.204	ng		0.00
27) Fluoranthene-d10	19.059	212	3130	0.196	ng		0.00
31) Terphenyl-d14	19.667	244	2136	0.198	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.155	88	607m	0.194	ng		
3) n-Nitrosodimethylamine	3.473	42	1238	0.204	ng	#	99
6) bis(2-Chloroethyl)ether	7.062	93	1394	0.192	ng		98
9) Naphthalene	10.458	128	3495	0.197	ng		97
10) Hexachlorobutadiene	10.757	225	763	0.197	ng	#	98
12) 2-Methylnaphthalene	12.082	142	2173	0.191	ng		100
16) Acenaphthylene	13.989	152	2990	0.191	ng		100
17) Acenaphthene	14.341	154	2053	0.198	ng		99
18) Fluorene	15.325	166	2605	0.193	ng		99
20) 4,6-Dinitro-2-methylph...	15.411	198	258	0.165	ng	#	57
21) 4-Bromophenyl-phenylether	16.227	248	819	0.197	ng		99
22) Hexachlorobenzene	16.338	284	900	0.196	ng		99
23) Atrazine	16.500	200	618	0.189	ng		98
24) Pentachlorophenol	16.686	266	425	0.178	ng		98
25) Phenanthrene	17.058	178	3972	0.194	ng		100
26) Anthracene	17.158	178	3454	0.188	ng		100
28) Fluoranthene	19.091	202	4305	0.189	ng		99
30) Pyrene	19.454	202	4403	0.200	ng		100
32) Benzo(a)anthracene	21.198	228	3191	0.193	ng		97
33) Chrysene	21.251	228	3574	0.197	ng		99
34) Bis(2-ethylhexyl)phtha...	21.144	149	1921	0.203	ng		98
36) Indeno(1,2,3-cd)pyrene	25.643	276	3163	0.192	ng		99
37) Benzo(b)fluoranthene	22.766	252	3124	0.187	ng	#	88
38) Benzo(k)fluoranthene	22.810	252	3158	0.187	ng	#	87
39) Benzo(a)pyrene	23.328	252	2619	0.190	ng	#	84
40) Dibenzo(a,h)anthracene	25.661	278	2498	0.193	ng	#	88
41) Benzo(g,h,i)perylene	26.327	276	2828	0.195	ng		96

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042825\
Data File : BN036924.D
Acq On : 28 Apr 2025 12:11
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 28 15:12:22 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:11:09 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 04/29/2025
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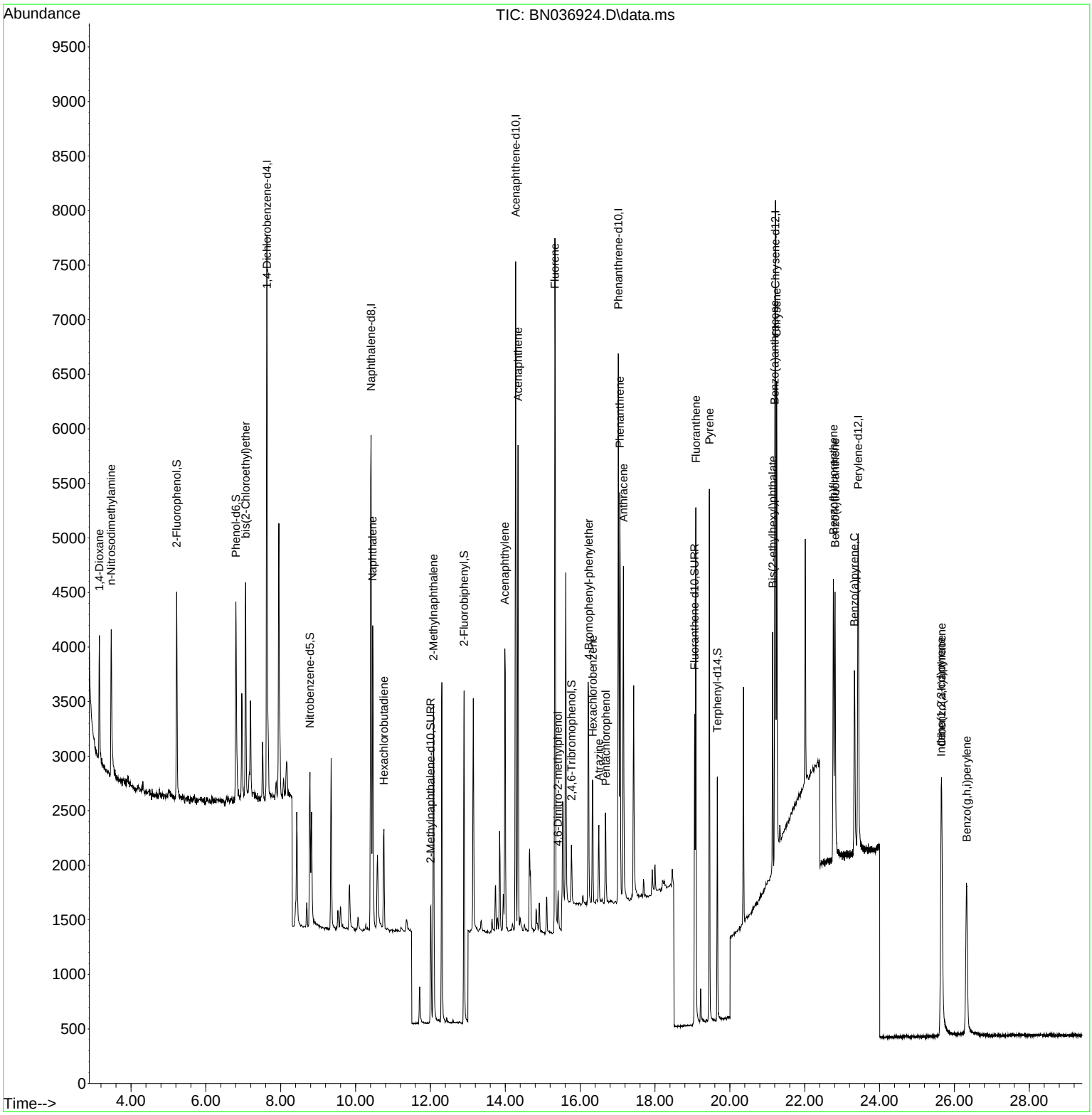
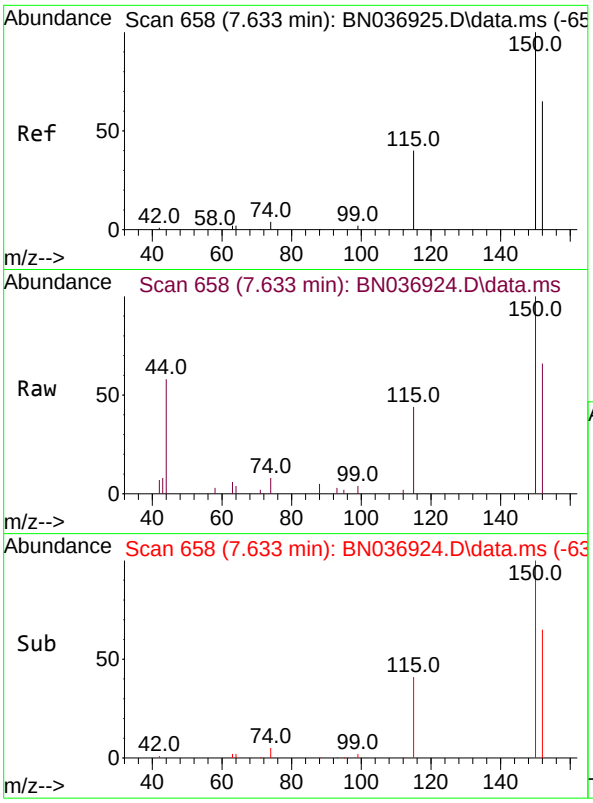
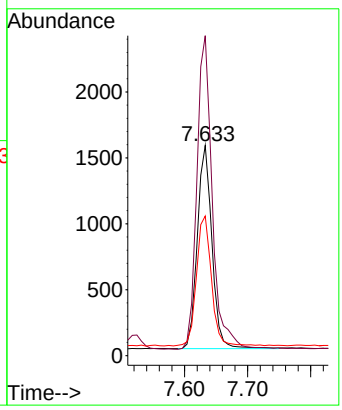




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.633 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

Tgt Ion:152 Resp: 248

Ion	Ratio	Lower	Upper
152	100		
150	152.3	121.1	181.7
115	66.4	51.8	77.6



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations APPROVED

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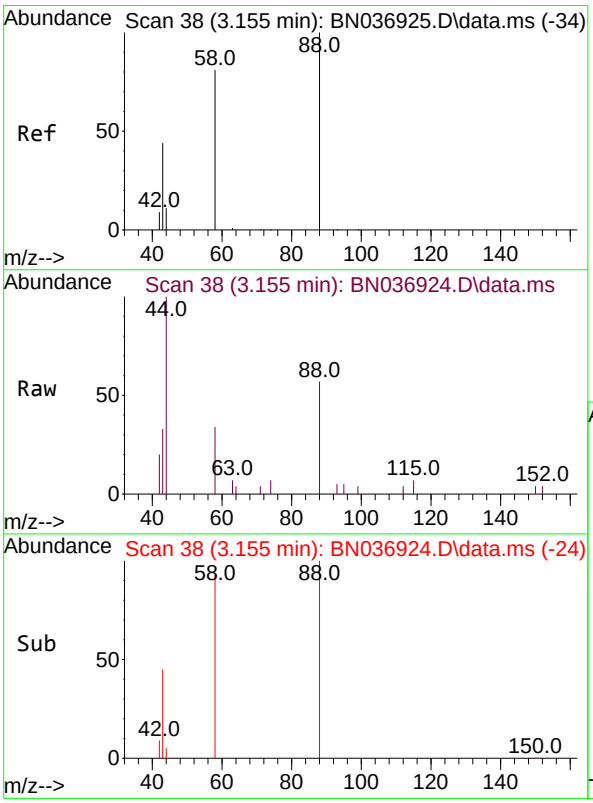
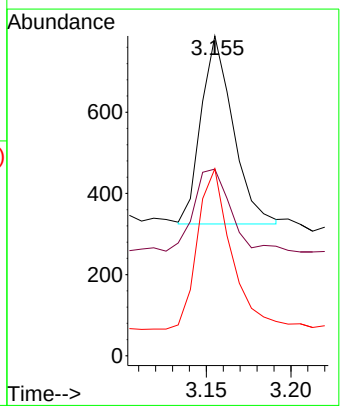
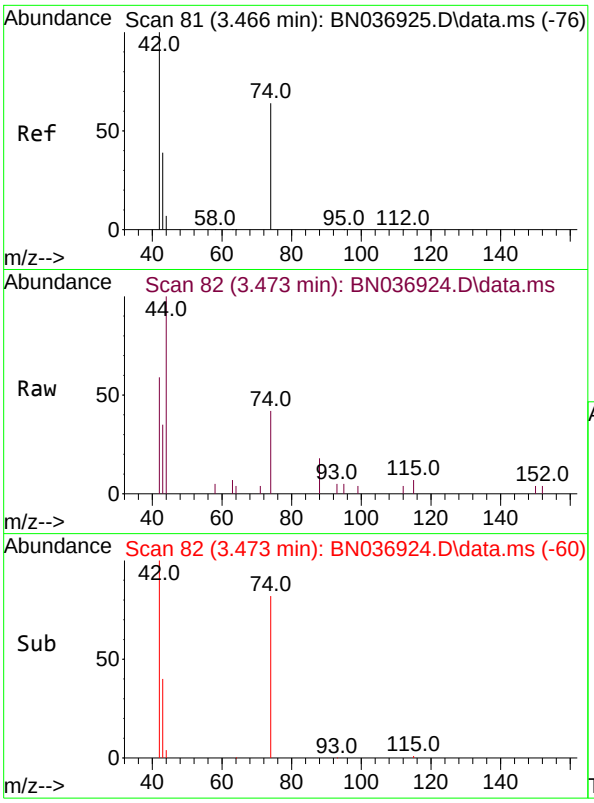


#2
1,4-Dioxane
Concen: 0.194 ng m
RT: 3.155 min Scan# 38
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

Tgt Ion: 88 Resp: 607

Ion	Ratio	Lower	Upper
88	100		
43	66.4	37.9	56.9#
58	94.4	65.8	98.6

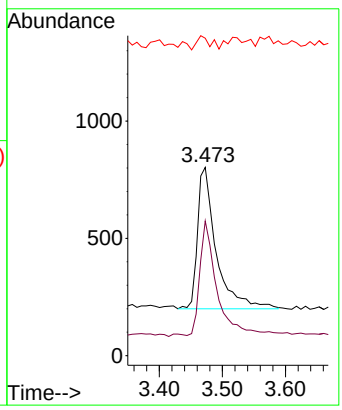




#3
n-Nitrosodimethylamine
Concen: 0.204 ng
RT: 3.473 min Scan# 8
Delta R.T. 0.007 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

Tgt Ion: 42 Resp: 123

Ion	Ratio	Lower	Upper
42	100		
74	74.2	59.9	89.9
44	7.1	7.5	11.3



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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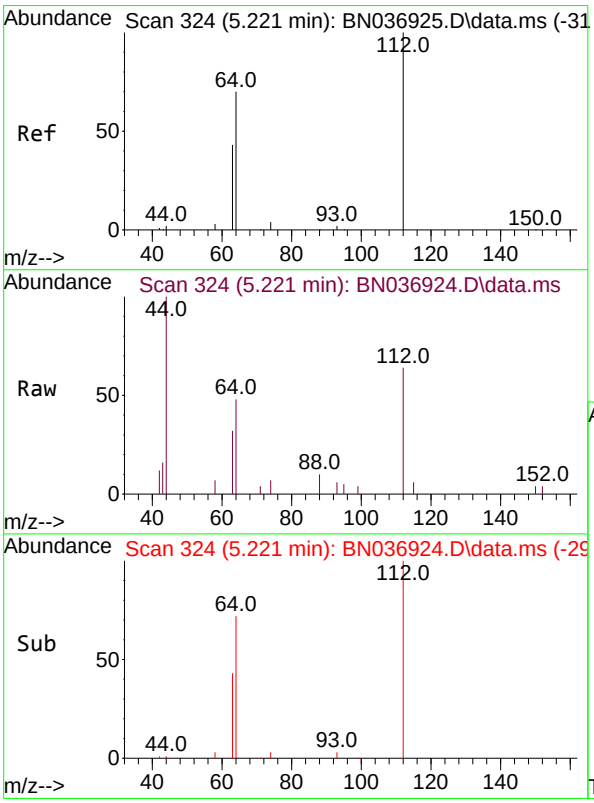
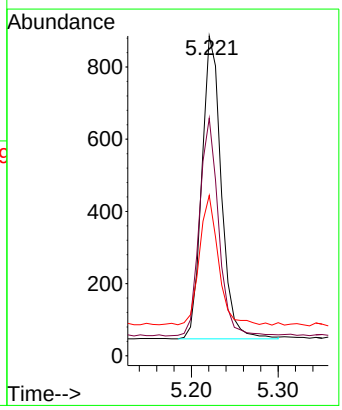
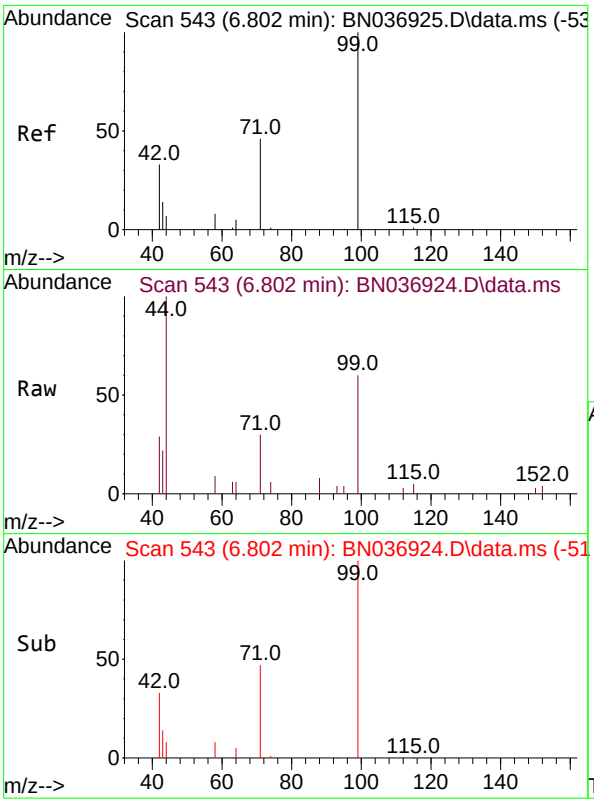


#4
2-Fluorophenol
Concen: 0.205 ng
RT: 5.221 min Scan# 324
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

Tgt Ion:112 Resp: 1310

Ion	Ratio	Lower	Upper
112	100		
64	70.8	55.7	83.5
63	42.5	33.9	50.9

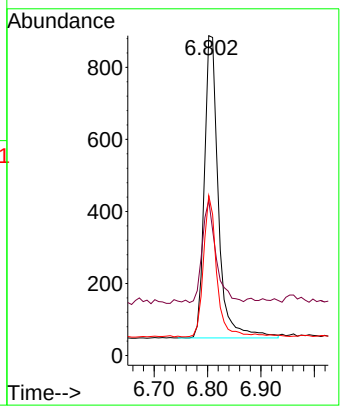




#5
Phenol-d6
Concen: 0.197 ng
RT: 6.802 min Scan# 54
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

Tgt Ion: 99 Resp: 153

Ion	Ratio	Lower	Upper
99	100		
42	33.2	29.6	44.4
71	43.6	36.0	54.0



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 04/29/2025
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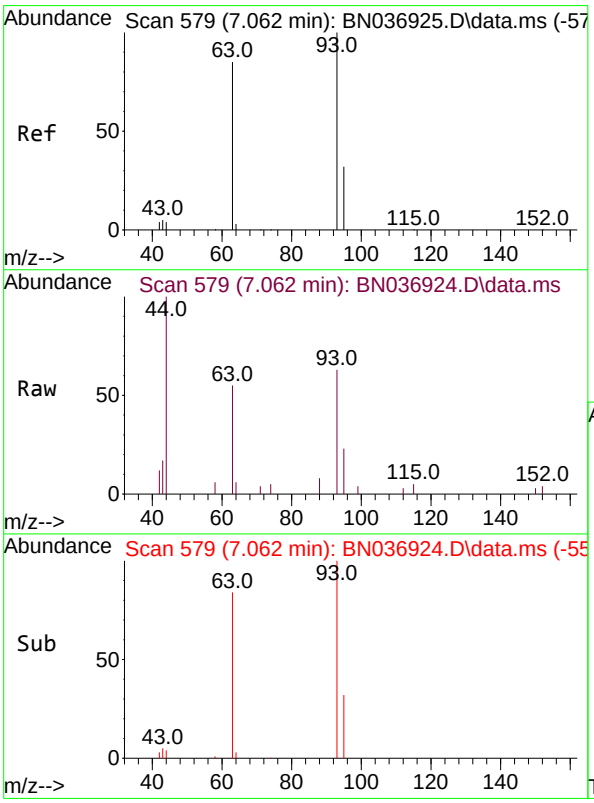
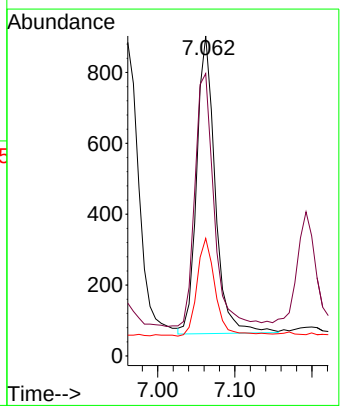
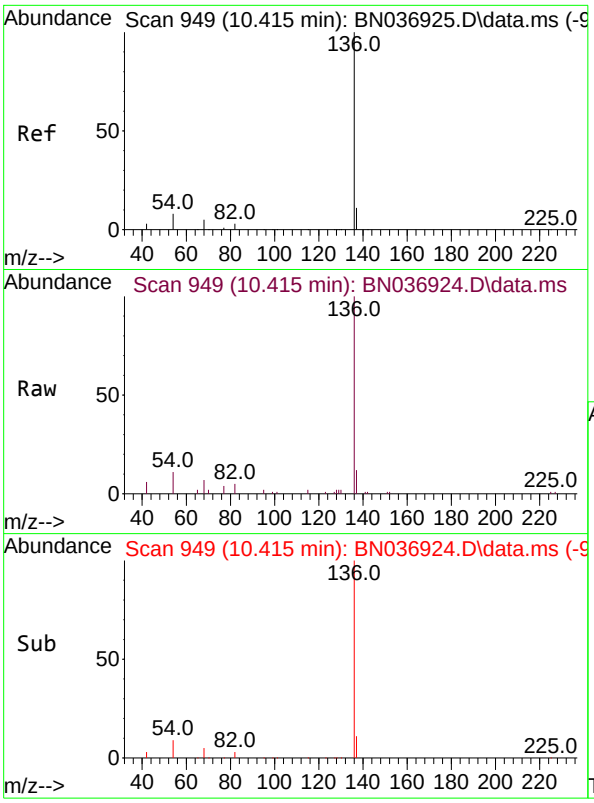


#6
bis(2-Chloroethyl)ether
Concen: 0.192 ng
RT: 7.062 min Scan# 579
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

Tgt Ion: 93 Resp: 1394

Ion	Ratio	Lower	Upper
93	100		
63	88.4	69.0	103.6
95	33.1	25.4	38.0

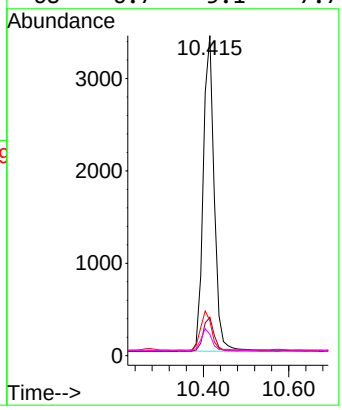




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.415 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

Tgt Ion:136 Resp: 609

Ion	Ratio	Lower	Upper
136	100		
137	12.0	9.7	14.5
54	10.8	8.0	12.0
68	6.7	5.1	7.7



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations APPROVED

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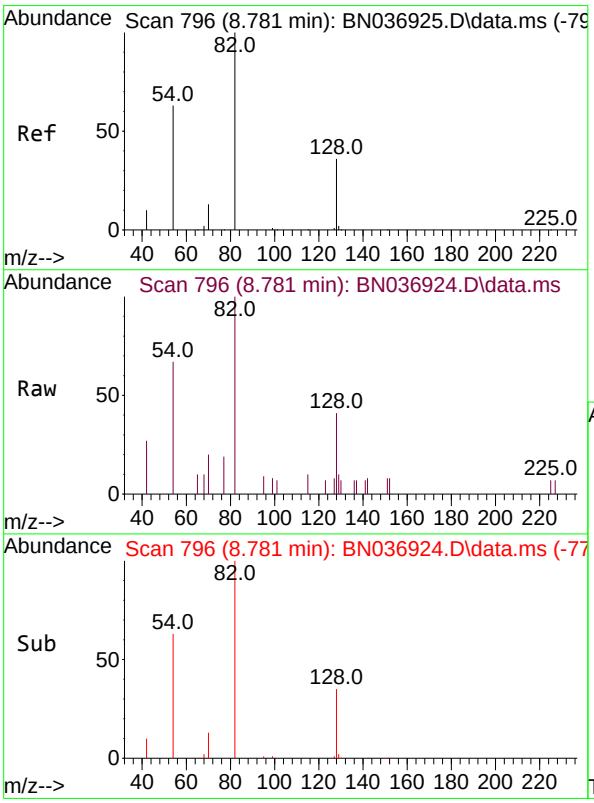
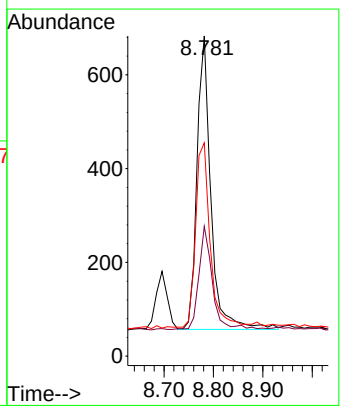
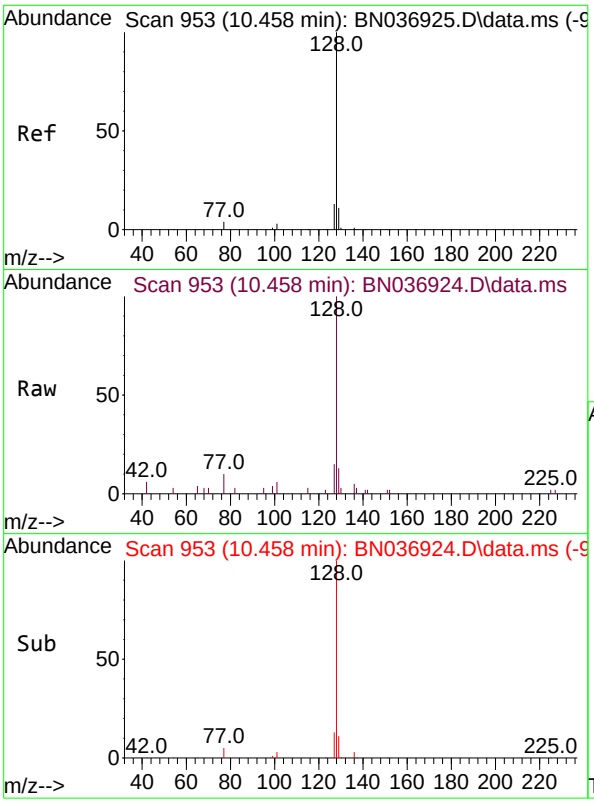


#8
Nitrobenzene-d5
Concen: 0.193 ng
RT: 8.781 min Scan# 796
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

Tgt Ion: 82 Resp: 1223

Ion	Ratio	Lower	Upper
82	100		
128	40.6	30.7	46.1
54	66.6	52.1	78.1

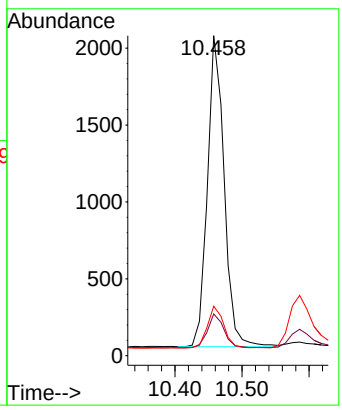




#9
Naphthalene
Concen: 0.197 ng
RT: 10.458 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

Tgt Ion:128 Resp: 349

Ion	Ratio	Lower	Upper
128	100		
129	13.1	9.8	14.6
127	15.5	11.4	17.2



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
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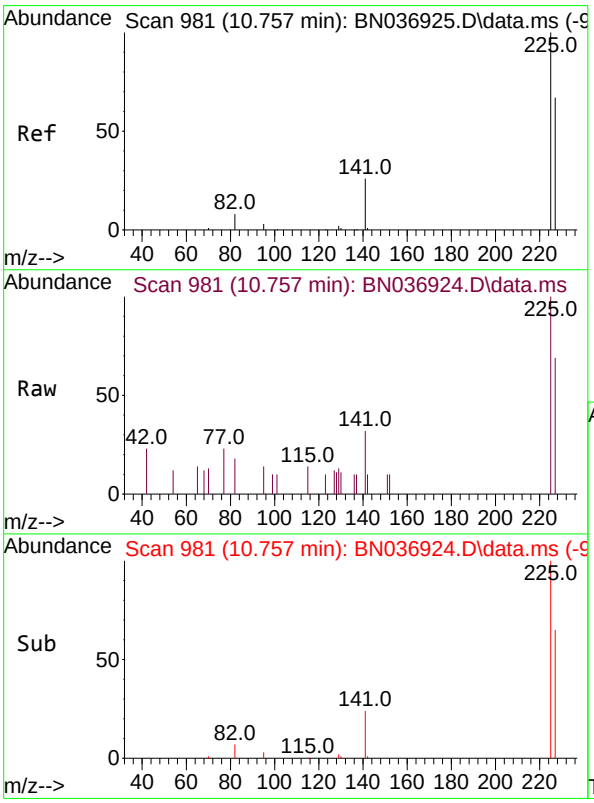
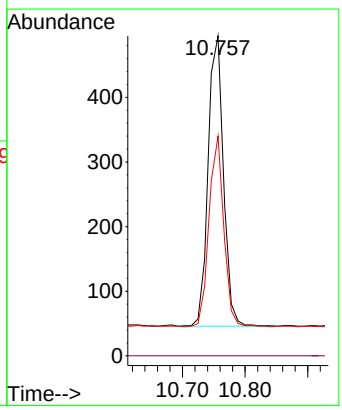
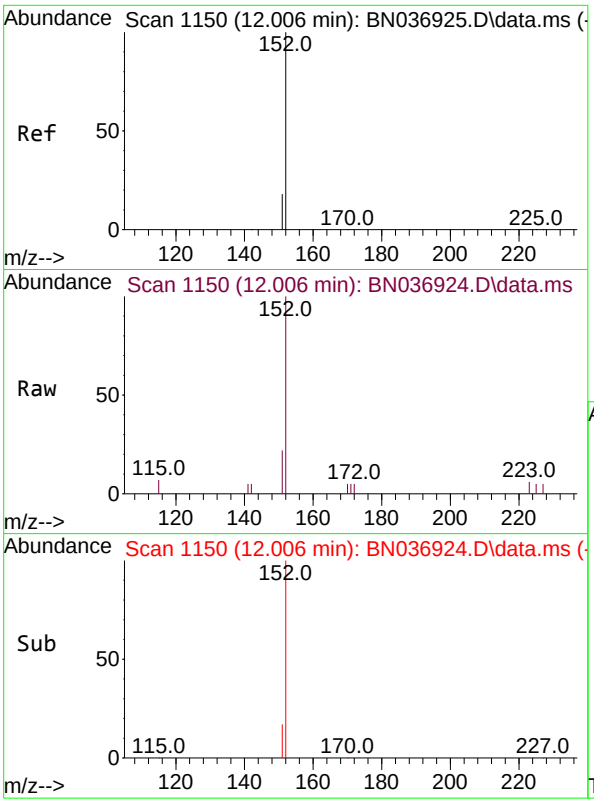


#10
Hexachlorobutadiene
Concen: 0.197 ng
RT: 10.757 min Scan# 981
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

Tgt Ion:225 Resp: 763

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.4	52.2	78.4

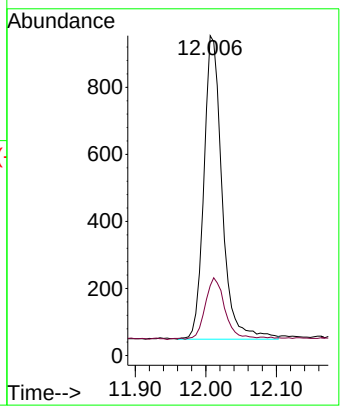




#11
2-Methylnaphthalene-d10
Concen: 0.192 ng
RT: 12.006 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

Tgt Ion:152 Resp: 162

Ion	Ratio	Lower	Upper
152	100		
151	21.7	16.9	25.3



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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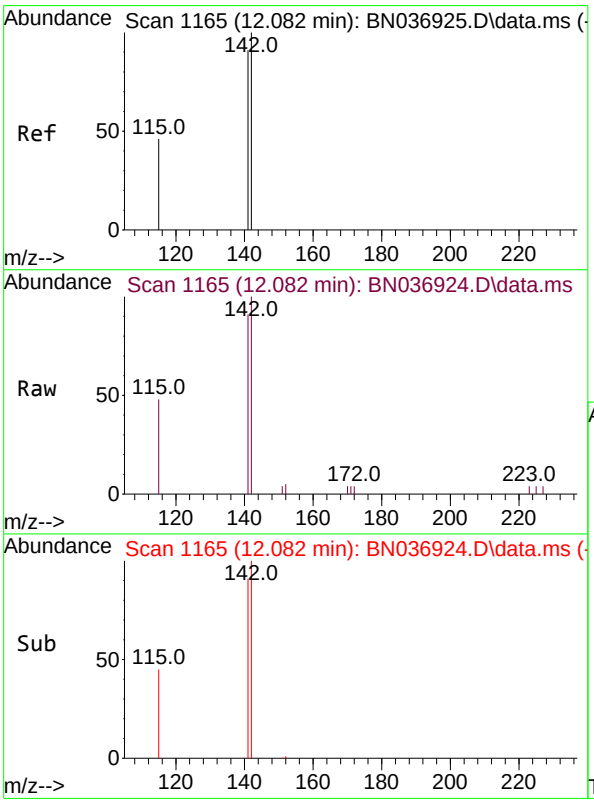
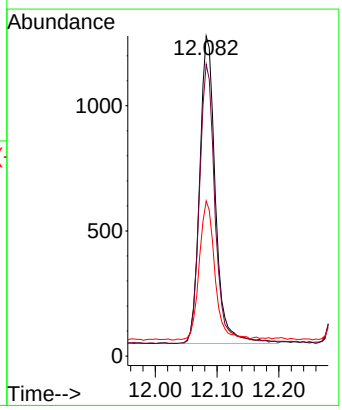
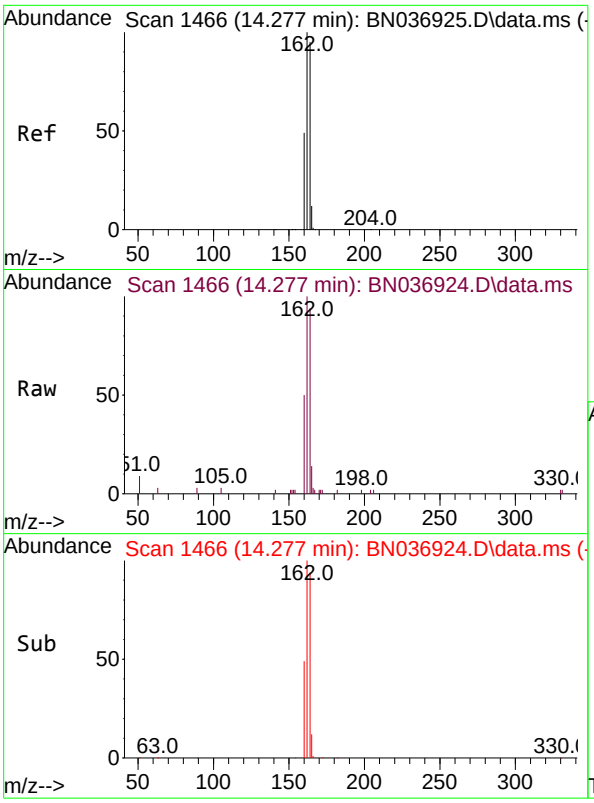


#12
2-Methylnaphthalene
Concen: 0.191 ng
RT: 12.082 min Scan# 1165
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

Tgt Ion:142 Resp: 2173

Ion	Ratio	Lower	Upper
142	100		
141	91.2	72.8	109.2
115	48.5	38.2	57.4

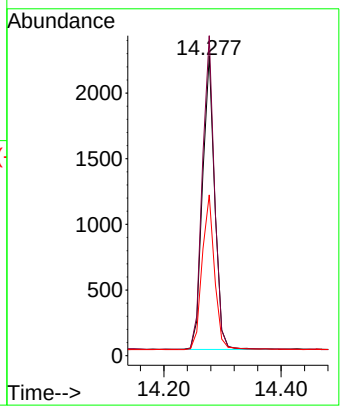




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.277 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

Tgt Ion:164 Resp: 323

Ion	Ratio	Lower	Upper
164	100		
162	106.7	83.8	125.8
160	53.6	42.0	63.0



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 04/29/2025
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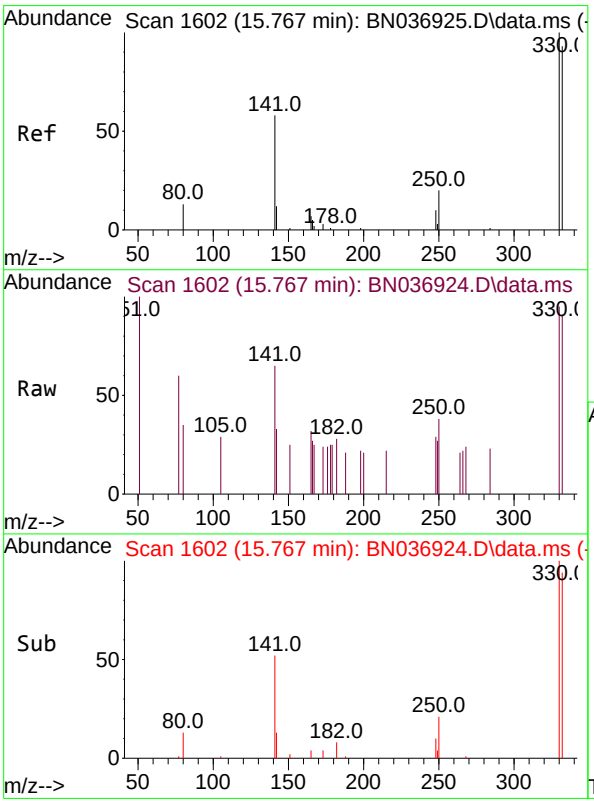
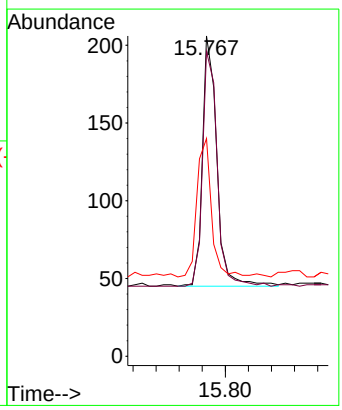
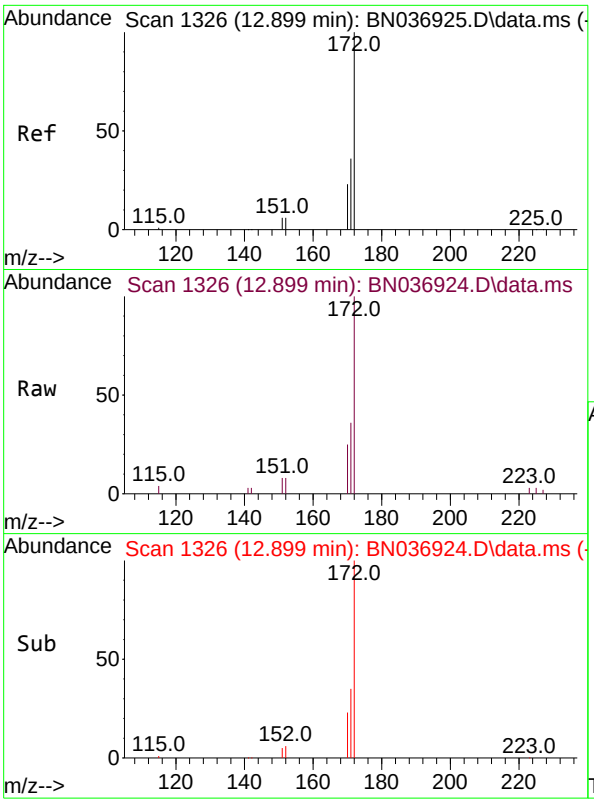


#14
2,4,6-Tribromophenol
Concen: 0.197 ng
RT: 15.767 min Scan# 1602
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

Tgt Ion:330 Resp: 279

Ion	Ratio	Lower	Upper
330	100		
332	95.7	76.3	114.5
141	55.9	45.4	68.2

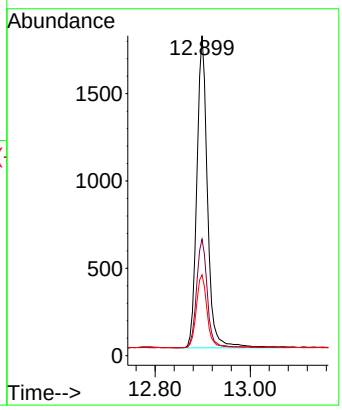




#15
2-Fluorobiphenyl
Concen: 0.204 ng
RT: 12.899 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

Tgt Ion:172 Resp: 319

Ion	Ratio	Lower	Upper
172	100		
171	36.4	29.4	44.0
170	25.3	19.4	29.0



Instrument :
BNA_N
ClientSampleId :
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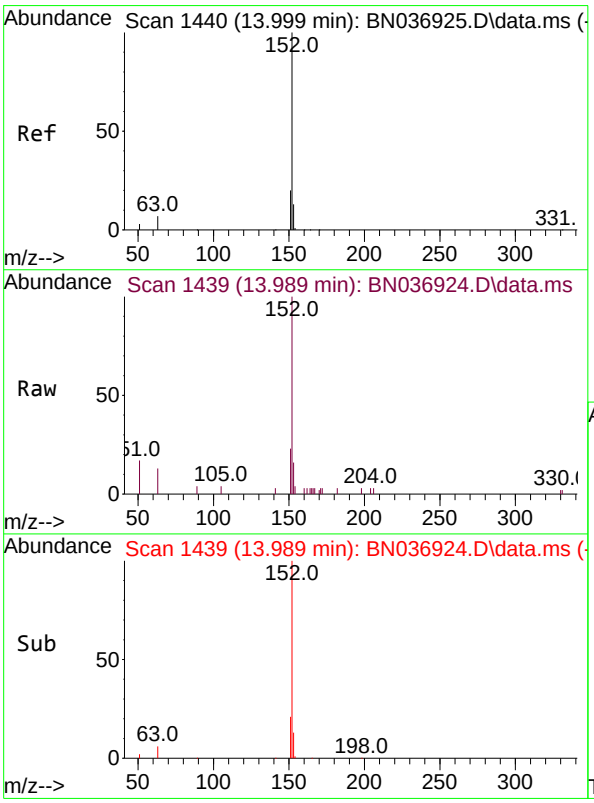
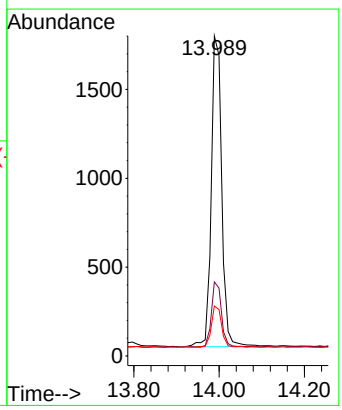
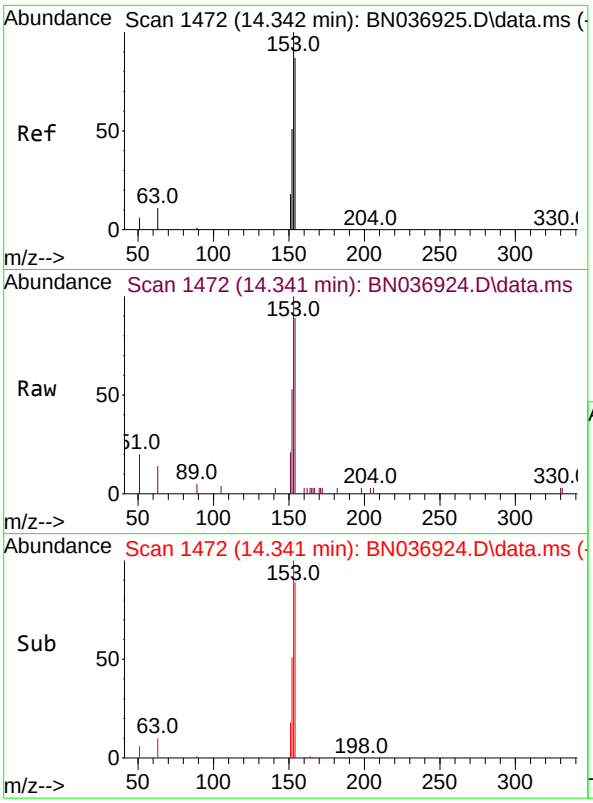


#16
Acenaphthylene
Concen: 0.191 ng
RT: 13.989 min Scan# 1439
Delta R.T. -0.011 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

Tgt Ion:152 Resp: 2990

Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.0	24.0
153	12.8	10.2	15.2

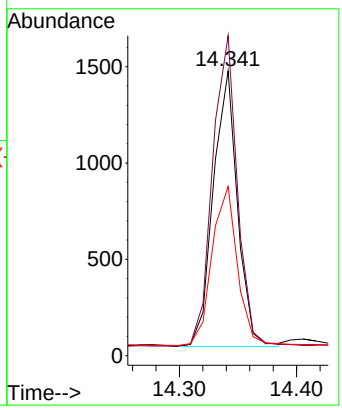




#17
Acenaphthene
Concen: 0.198 ng
RT: 14.341 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

Tgt Ion:154 Resp: 205

Ion	Ratio	Lower	Upper
154	100		
153	115.1	93.4	140.2
152	60.9	49.5	74.3



Instrument :
BNA_N
ClientSampleId :
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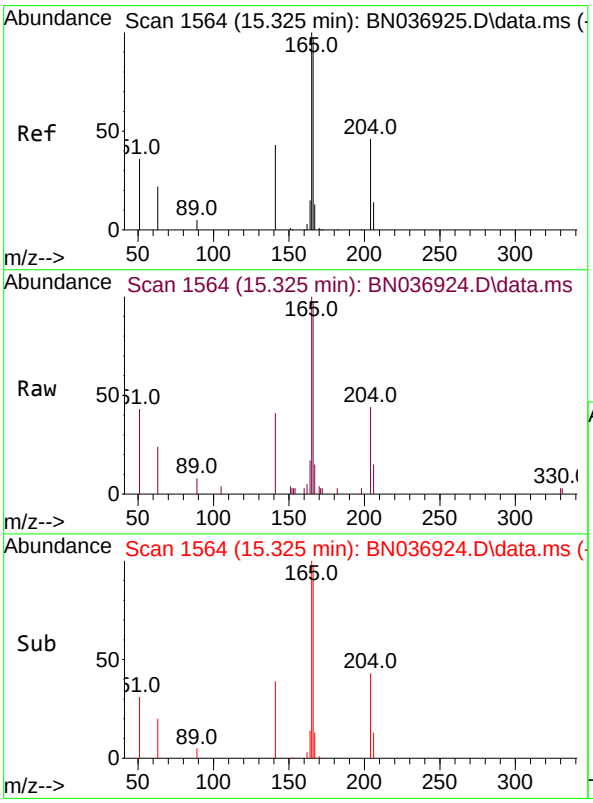
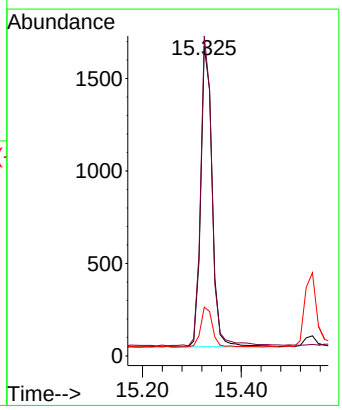
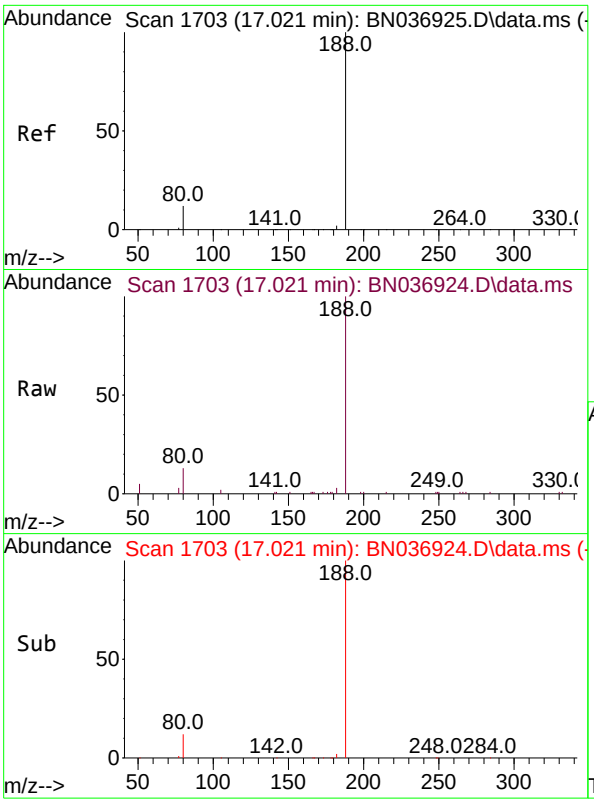


#18
Fluorene
Concen: 0.193 ng
RT: 15.325 min Scan# 1564
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

Tgt Ion:166 Resp: 2605

Ion	Ratio	Lower	Upper
166	100		
165	101.9	80.8	121.2
167	14.0	10.8	16.2

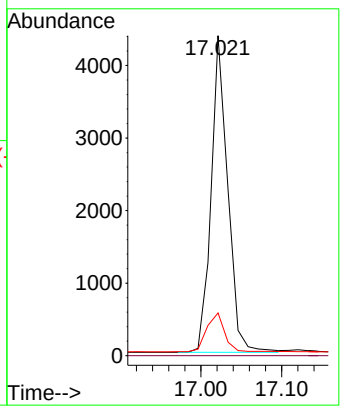




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.021 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

Tgt Ion:188 Resp: 623

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	13.4	10.7	16.1



Instrument :
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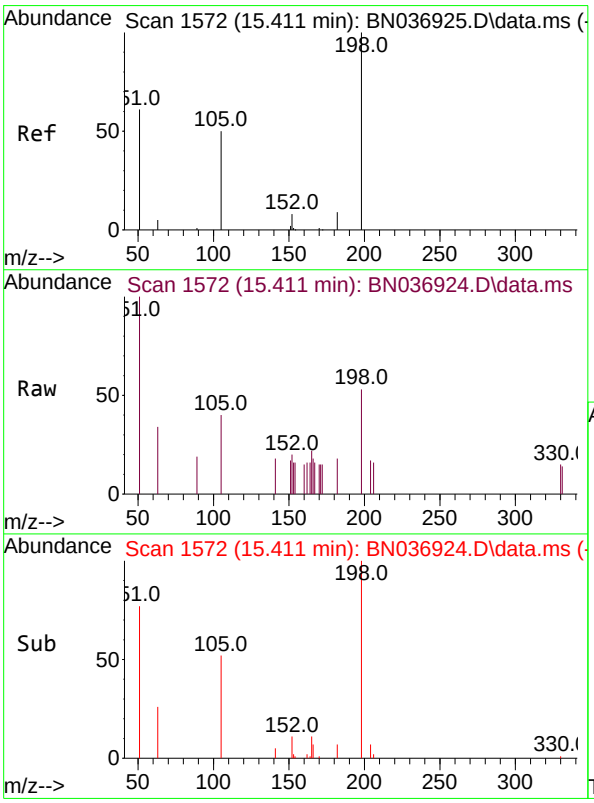
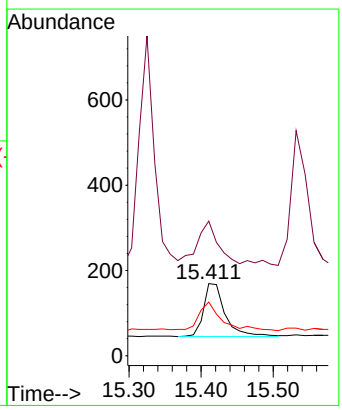
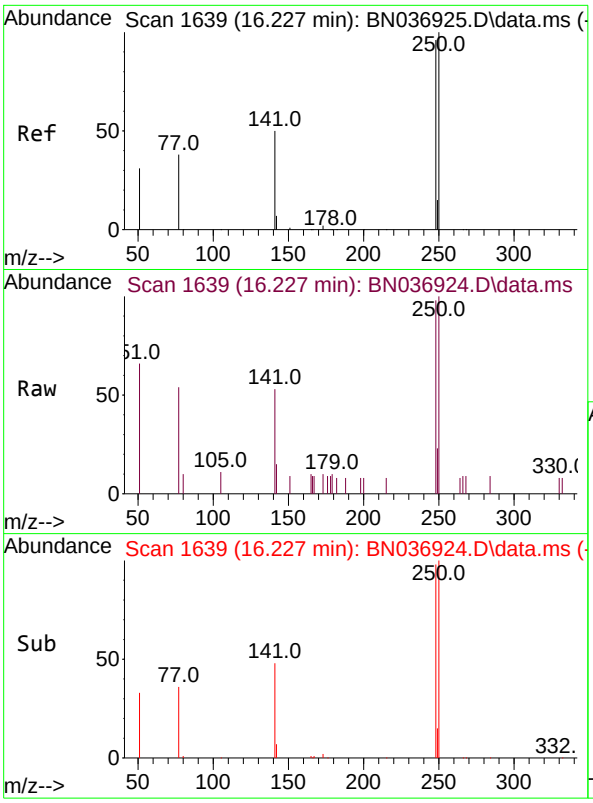


#20
4,6-Dinitro-2-methylphenol
Concen: 0.165 ng
RT: 15.411 min Scan# 1572
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

Tgt Ion:198 Resp: 258

Ion	Ratio	Lower	Upper
198	100		
51	187.0	97.9	146.9#
105	74.6	50.0	75.0

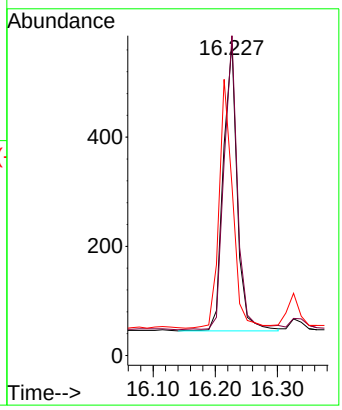




#21
4-Bromophenyl-phenylether
Concen: 0.197 ng
RT: 16.227 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

Tgt Ion:248 Resp: 81

Ion	Ratio	Lower	Upper
248	100		
250	102.4	83.7	125.5
141	54.5	43.8	65.8



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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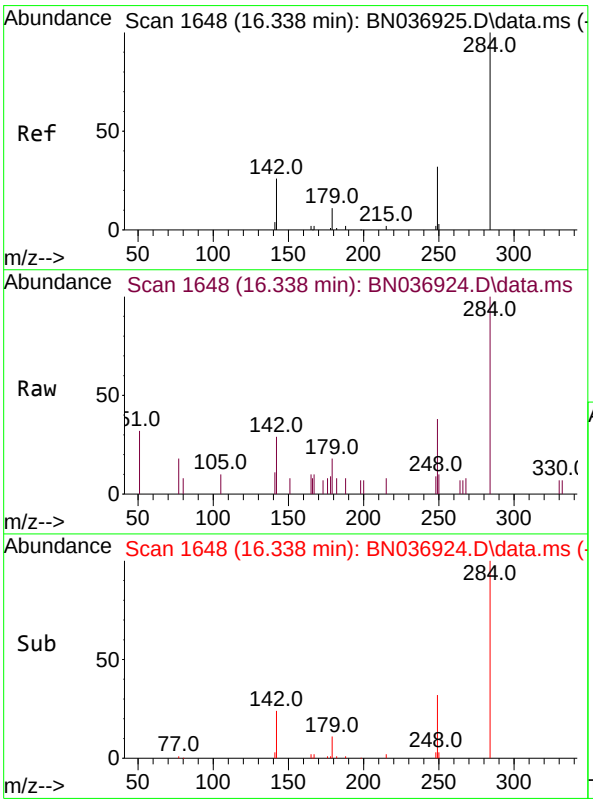
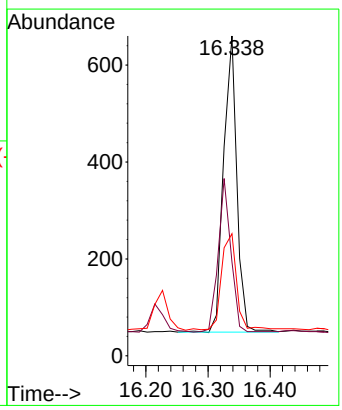
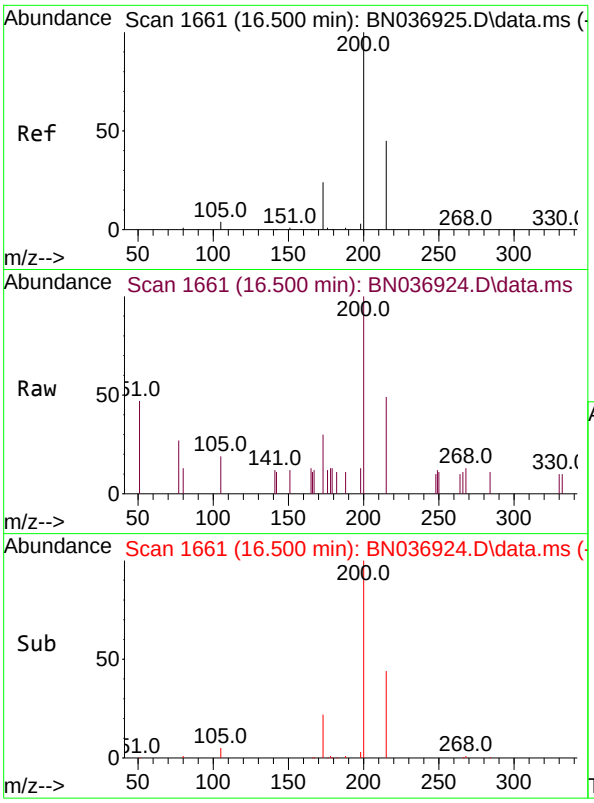


#22
Hexachlorobenzene
Concen: 0.196 ng
RT: 16.338 min Scan# 1648
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

Tgt Ion:284 Resp: 900

Ion	Ratio	Lower	Upper
284	100		
142	49.8	40.0	60.0
249	37.0	28.2	42.2

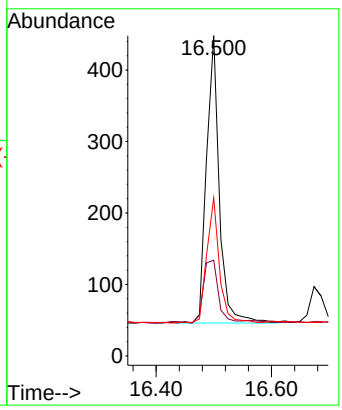




#23
Atrazine
Concen: 0.189 ng
RT: 16.500 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

Tgt Ion:200 Resp: 61

Ion	Ratio	Lower	Upper
200	100		
173	29.9	22.4	33.6
215	49.3	38.6	57.8



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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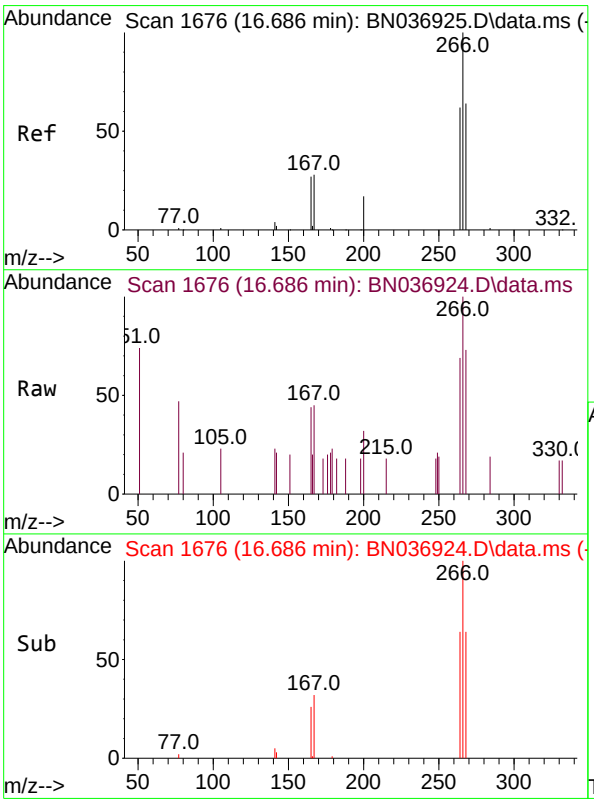
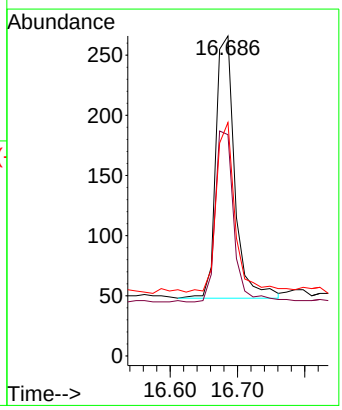
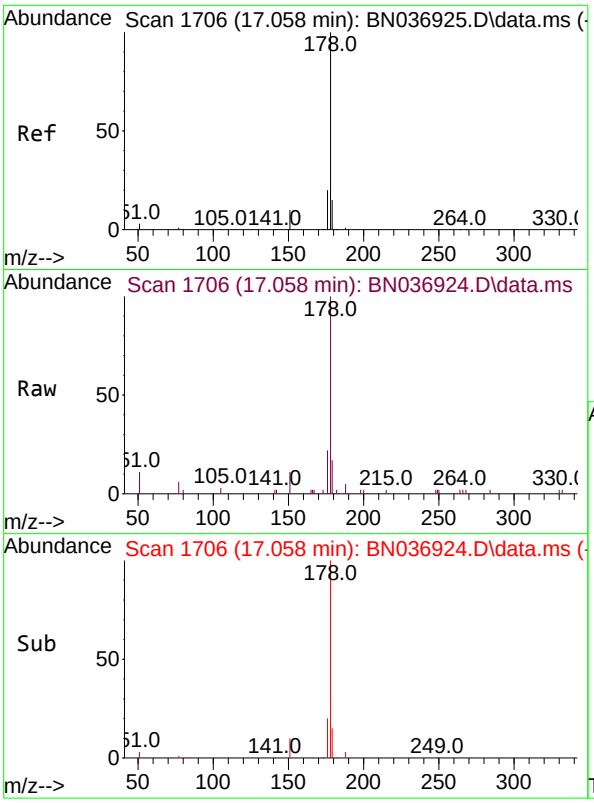


#24
Pentachlorophenol
Concen: 0.178 ng
RT: 16.686 min Scan# 1676
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

Tgt Ion:266 Resp: 425

Ion	Ratio	Lower	Upper
266	100		
264	64.5	49.9	74.9
268	66.8	52.2	78.4

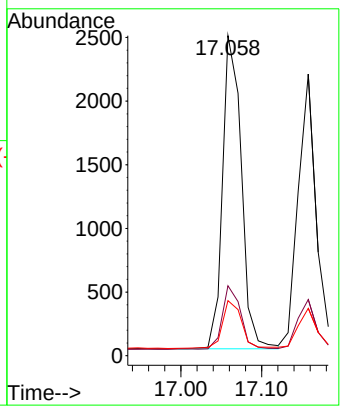




#25
Phenanthrene
Concen: 0.194 ng
RT: 17.058 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

Tgt Ion:178 Resp: 397

Ion	Ratio	Lower	Upper
178	100		
176	19.9	15.7	23.5
179	15.5	12.4	18.6



Instrument :
BNA_N
ClientSampleId :
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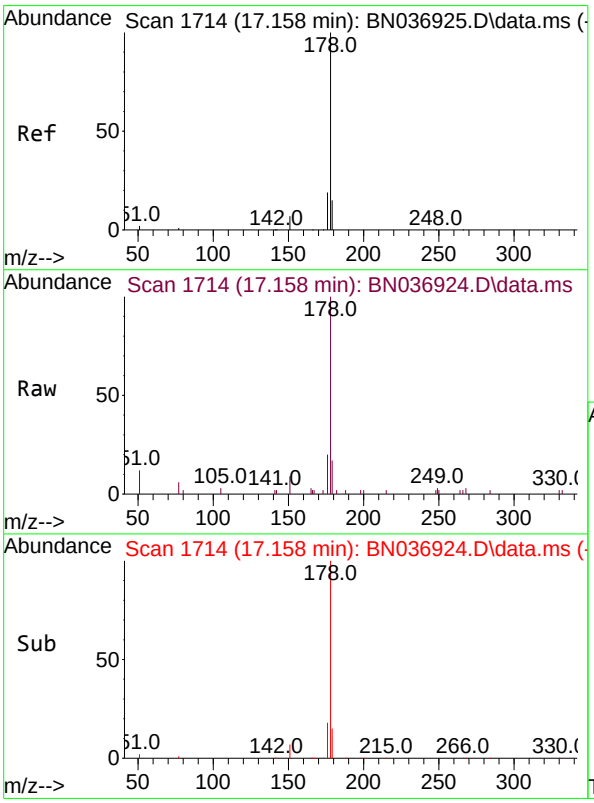
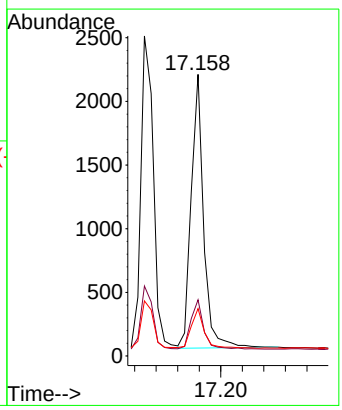
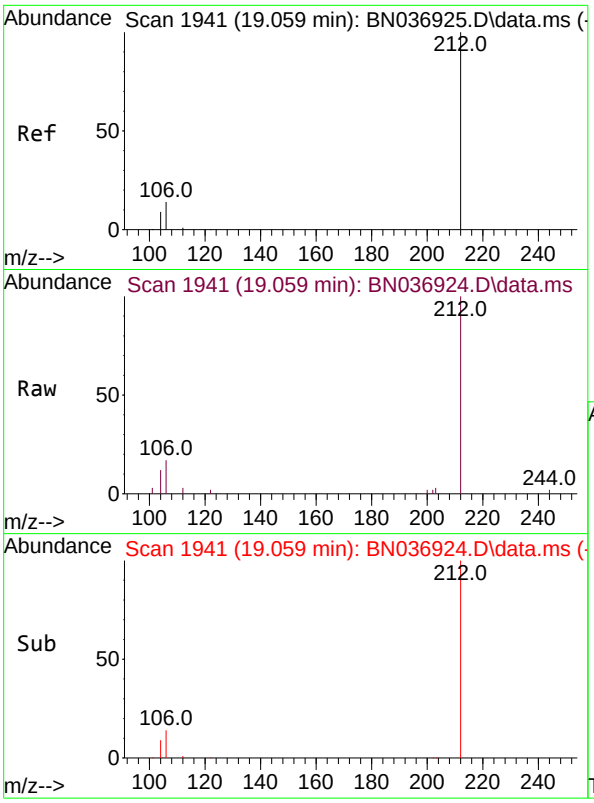


#26
Anthracene
Concen: 0.188 ng
RT: 17.158 min Scan# 1714
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

Tgt Ion:178 Resp: 3454

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.3	22.9
179	15.2	12.1	18.1

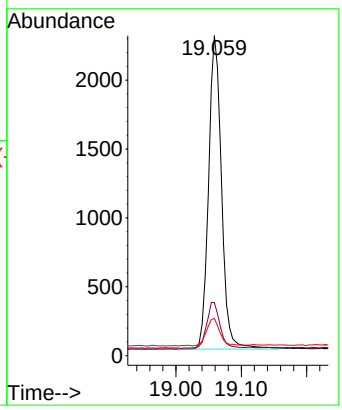




#27
Fluoranthene-d10
Concen: 0.196 ng
RT: 19.059 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

Tgt Ion:212 Resp: 313

Ion	Ratio	Lower	Upper
212	100		
106	15.0	11.6	17.4
104	9.0	7.0	10.4



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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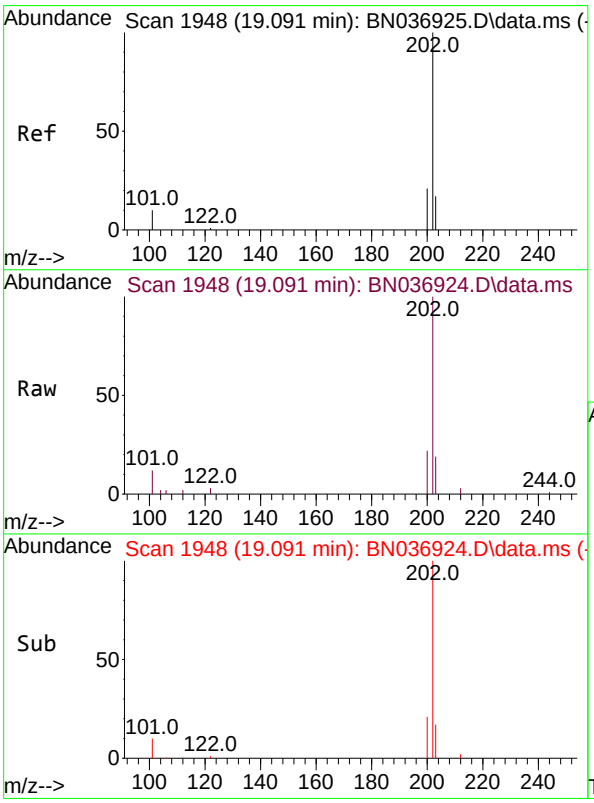
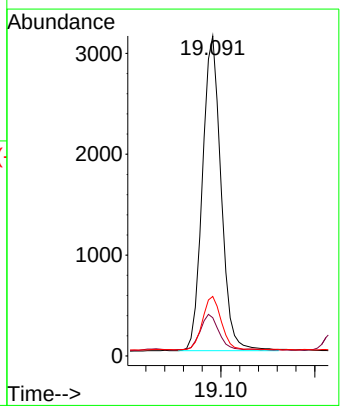
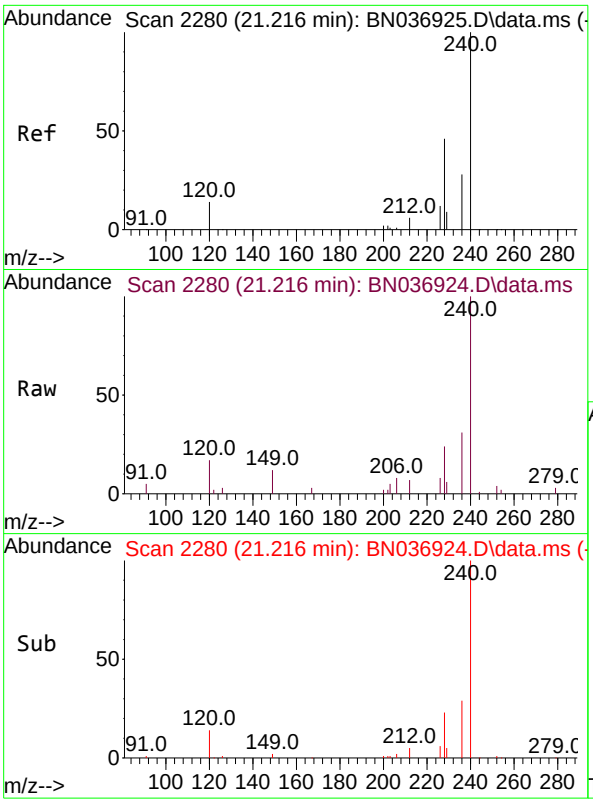


#28
Fluoranthene
Concen: 0.189 ng
RT: 19.091 min Scan# 1948
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

Tgt Ion:202 Resp: 4305

Ion	Ratio	Lower	Upper
202	100		
101	11.2	8.5	12.7
203	17.4	13.7	20.5

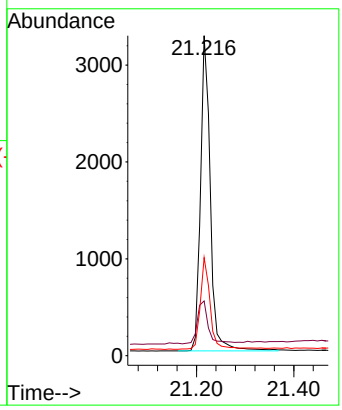




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.216 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

Tgt Ion:240 Resp: 453

Ion	Ratio	Lower	Upper
240	100		
120	17.1	14.1	21.1
236	30.7	23.8	35.8



Instrument :
BNA_N
ClientSampleId :
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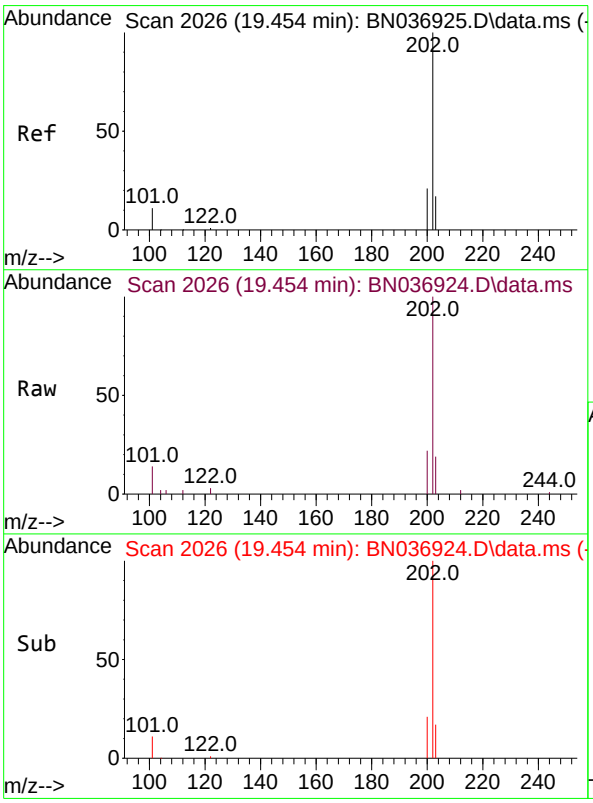
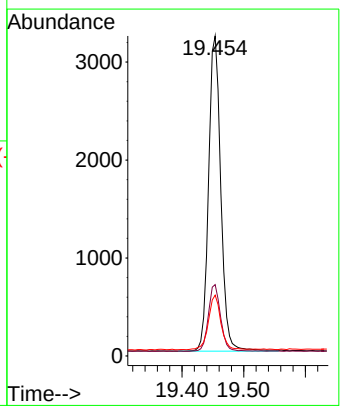
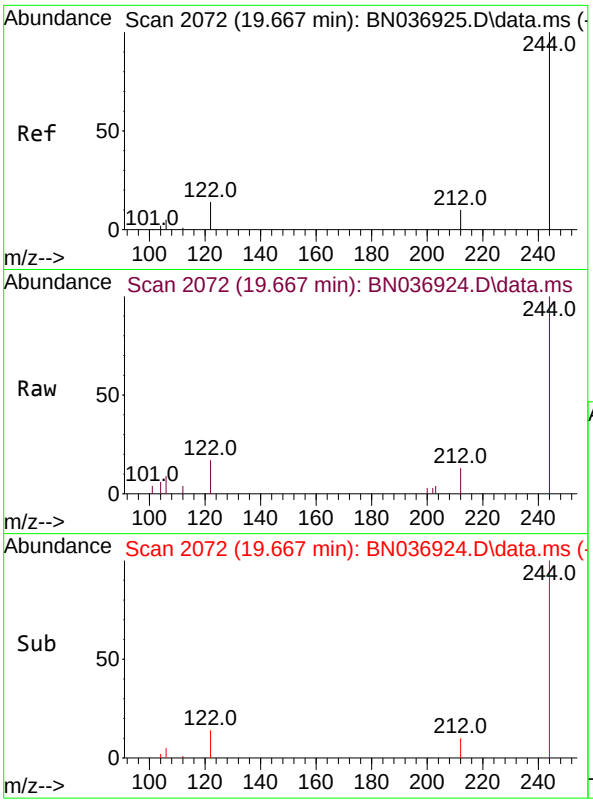


#30
Pyrene
Concen: 0.200 ng
RT: 19.454 min Scan# 2026
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

Tgt Ion:202 Resp: 4403

Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.0	25.6
203	17.8	14.0	21.0

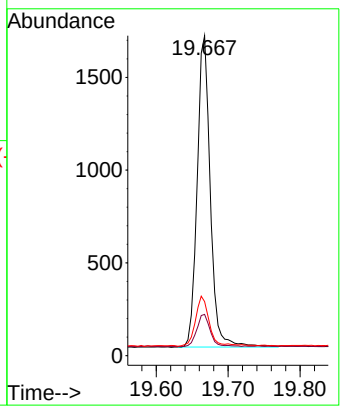




#31
Terphenyl-d14
Concen: 0.198 ng
RT: 19.667 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

Tgt Ion:244 Resp: 213

Ion	Ratio	Lower	Upper
244	100		
212	12.9	9.6	14.4
122	16.9	12.7	19.1



Instrument :
BNA_N
ClientSampleId :
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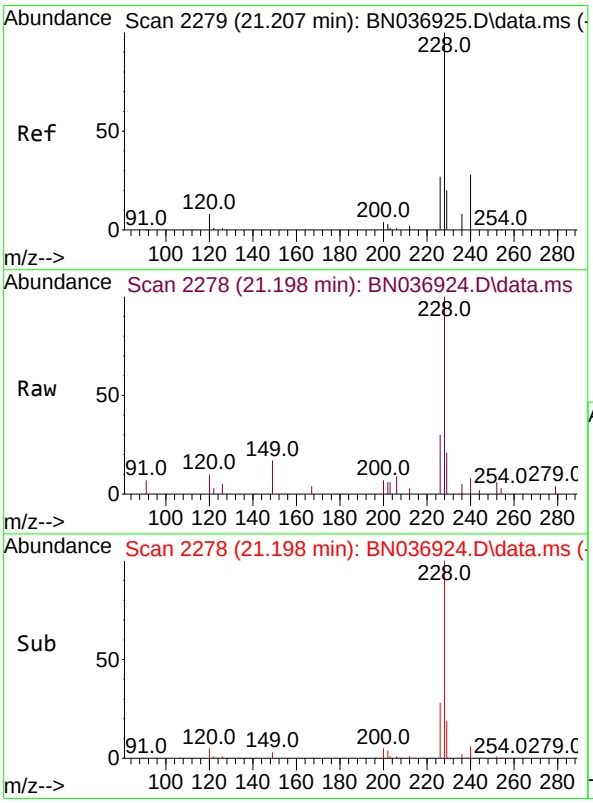
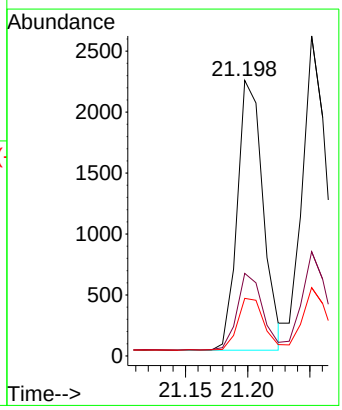
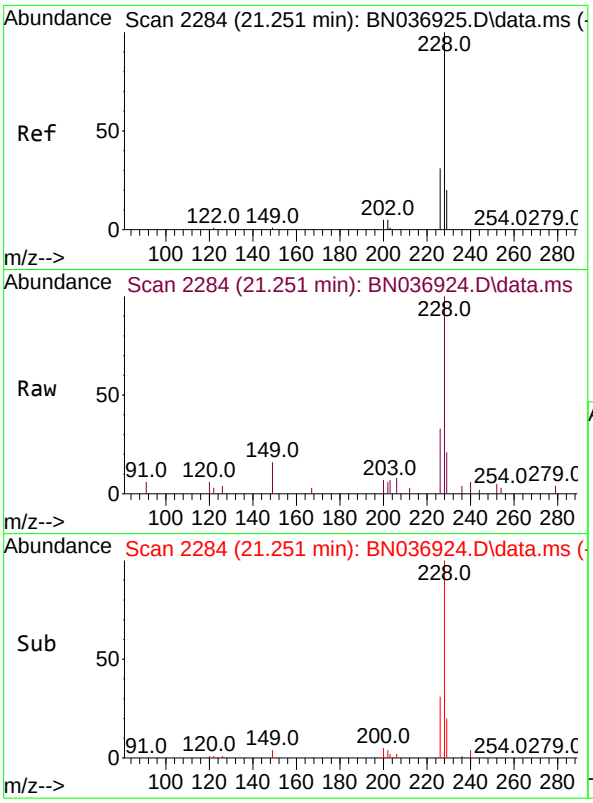


#32
Benzo(a)anthracene
Concen: 0.193 ng
RT: 21.198 min Scan# 2278
Delta R.T. -0.009 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

Tgt Ion:228 Resp: 3191

Ion	Ratio	Lower	Upper
228	100		
226	30.0	22.2	33.4
229	20.9	16.4	24.6

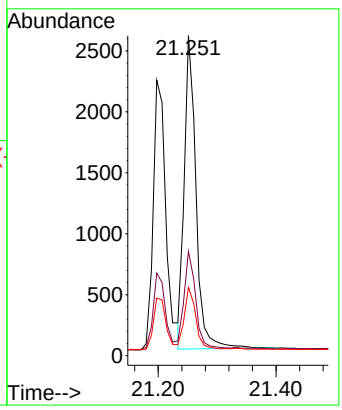




#33
Chrysene
Concen: 0.197 ng
RT: 21.251 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

Tgt Ion:228 Resp: 357

Ion	Ratio	Lower	Upper
228	100		
226	32.6	25.5	38.3
229	21.3	16.5	24.7



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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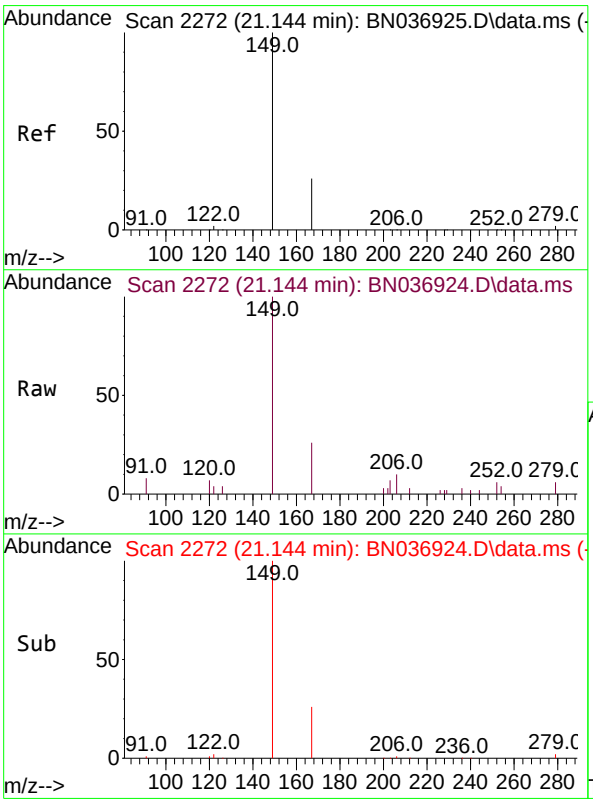
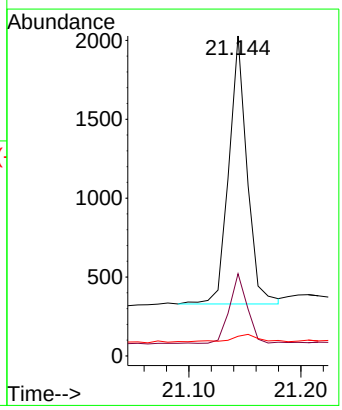
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025

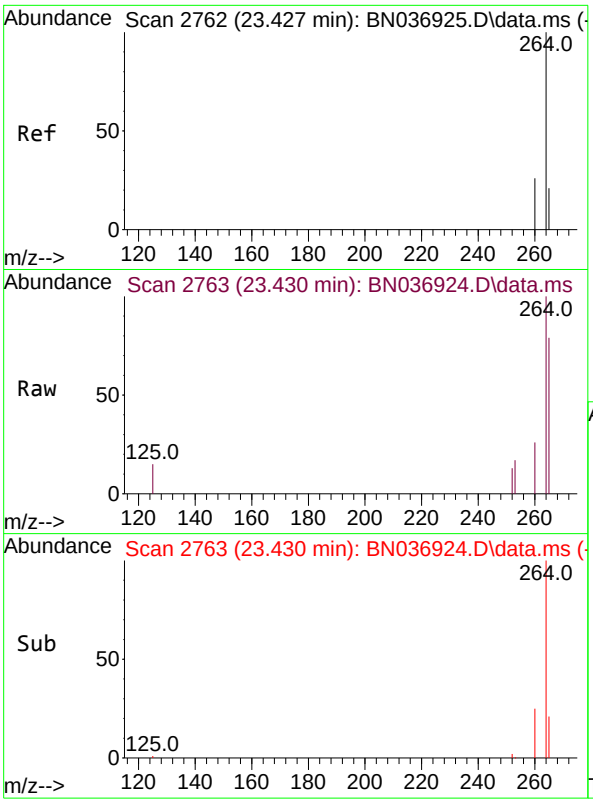


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.203 ng
RT: 21.144 min Scan# 2272
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

Tgt Ion:149 Resp: 1921

Ion	Ratio	Lower	Upper
149	100		
167	25.4	21.0	31.6
279	3.9	2.7	4.1

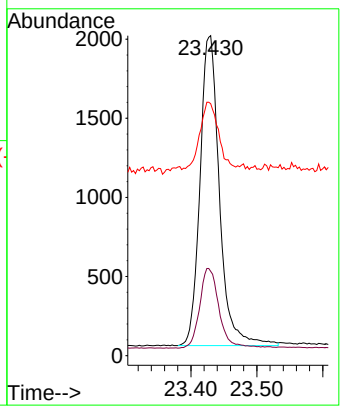




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.430 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

Tgt Ion:264 Resp: 402

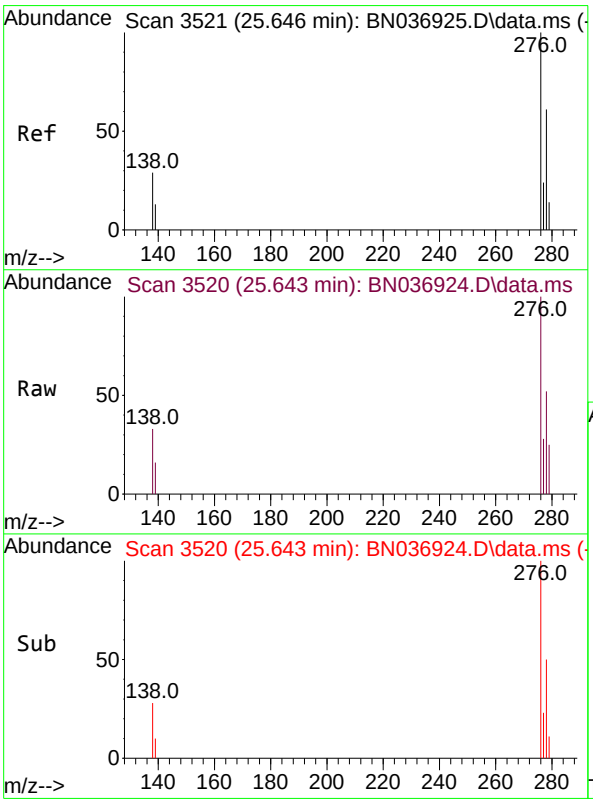
Ion	Ratio	Lower	Upper
264	100		
260	26.4	22.2	33.2
265	78.7	65.8	98.6



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

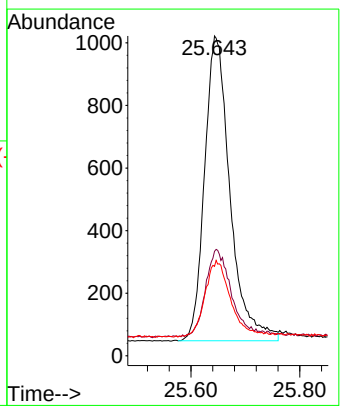
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025

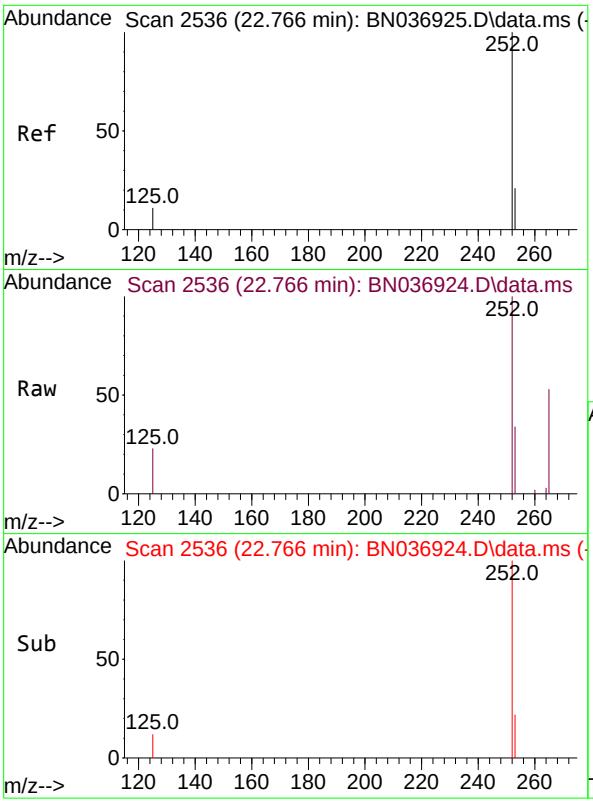


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.192 ng
RT: 25.643 min Scan# 3520
Delta R.T. -0.003 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

Tgt Ion:276 Resp: 3163

Ion	Ratio	Lower	Upper
276	100		
138	28.4	23.0	34.6
277	25.2	20.0	30.0

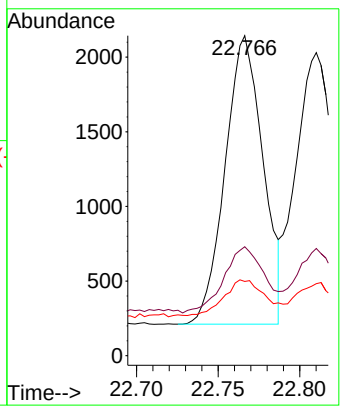




#37
Benzo(b)fluoranthene
Concen: 0.187 ng
RT: 22.766 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

Tgt Ion:252 Resp: 312

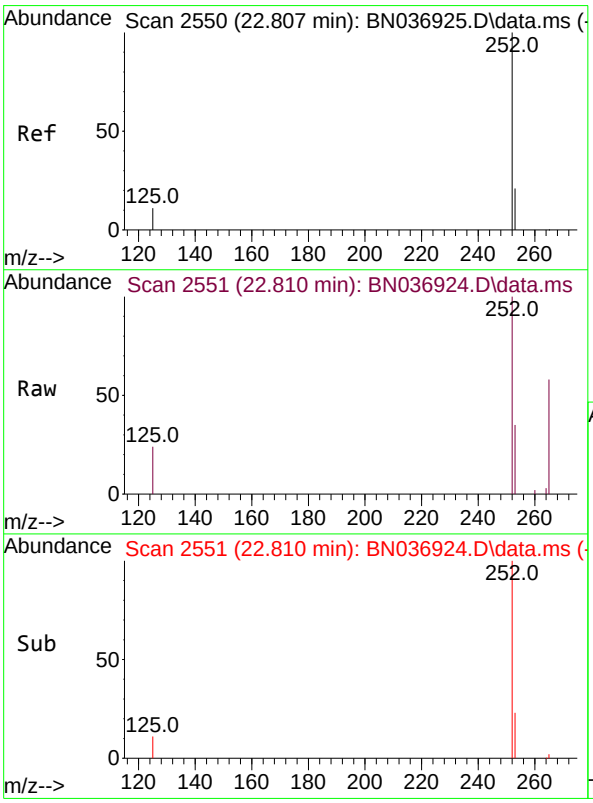
Ion	Ratio	Lower	Upper
252	100		
253	34.0	22.1	33.1#
125	23.2	14.2	21.2#



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations APPROVED

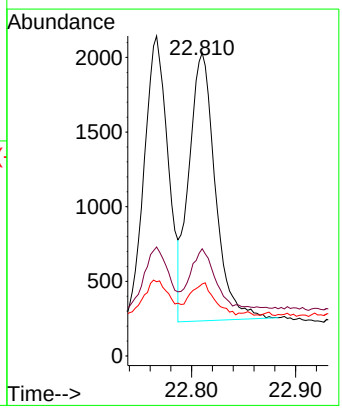
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025

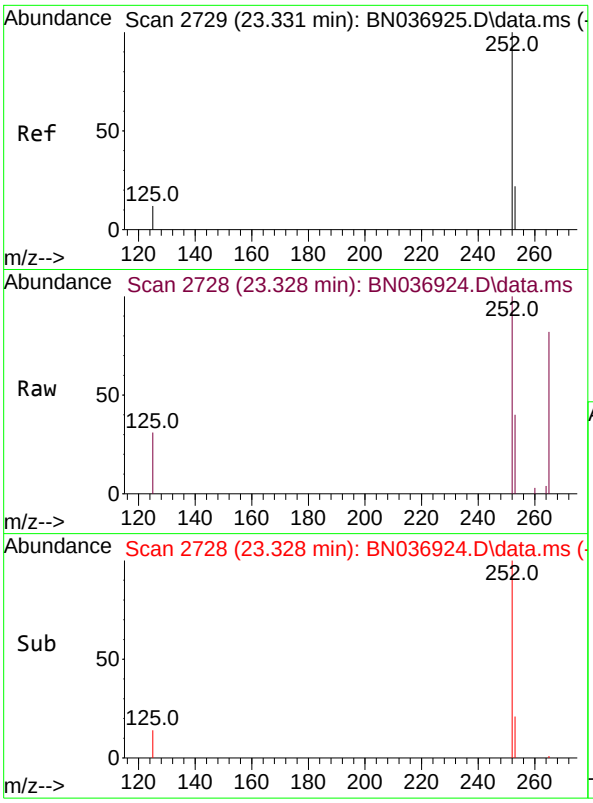


#38
Benzo(k)fluoranthene
Concen: 0.187 ng
RT: 22.810 min Scan# 2551
Delta R.T. 0.003 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

Tgt Ion:252 Resp: 3158

Ion	Ratio	Lower	Upper
252	100		
253	35.4	22.8	34.2#
125	23.8	14.2	21.2#

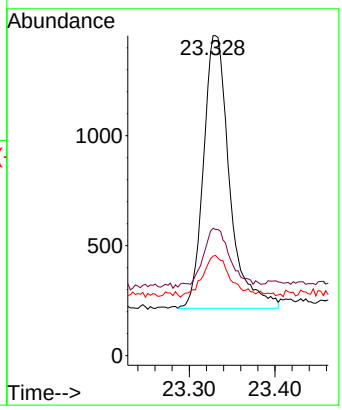




#39
Benzo(a)pyrene
Concen: 0.190 ng
RT: 23.328 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

Tgt Ion:252 Resp: 261

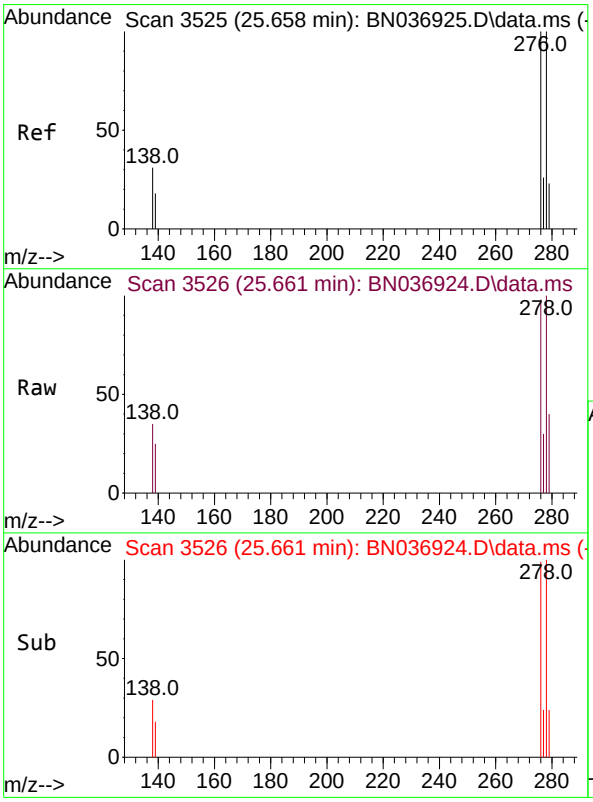
Ion	Ratio	Lower	Upper
252	100		
253	39.8	25.9	38.9#
125	31.1	17.4	26.0#



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

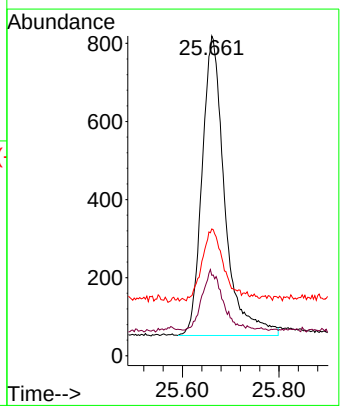
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025

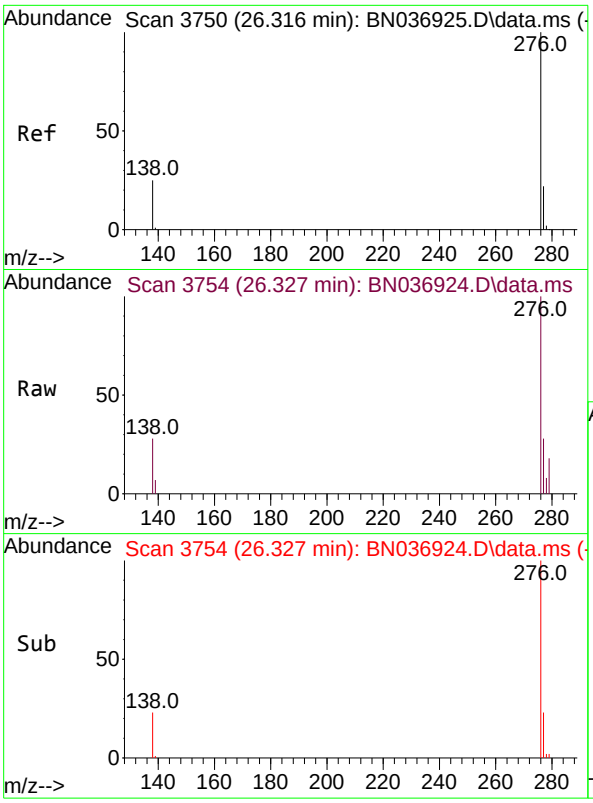


#40
Dibenzo(a,h)anthracene
Concen: 0.193 ng
RT: 25.661 min Scan# 3526
Delta R.T. 0.003 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

Tgt Ion:278 Resp: 2498

Ion	Ratio	Lower	Upper
278	100		
139	25.2	17.4	26.2
279	39.7	24.9	37.3#

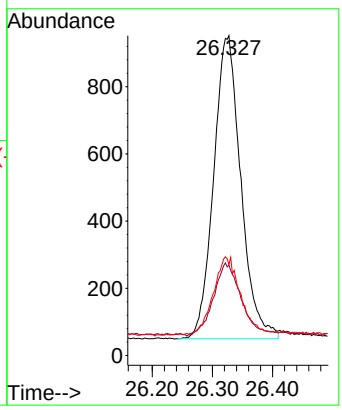




#41
Benzo(g,h,i)perylene
Concen: 0.195 ng
RT: 26.327 min Scan# 3
Delta R.T. 0.012 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

Tgt Ion:276 Resp: 282

Ion	Ratio	Lower	Upper
276	100		
277	28.3	20.2	30.2
138	28.5	21.9	32.9



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025

Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042825\
Data File : BN036925.D
Acq On : 28 Apr 2025 12:47
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Quant Time: Apr 28 15:12:49 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:11:09 2025
Response via : Initial Calibration

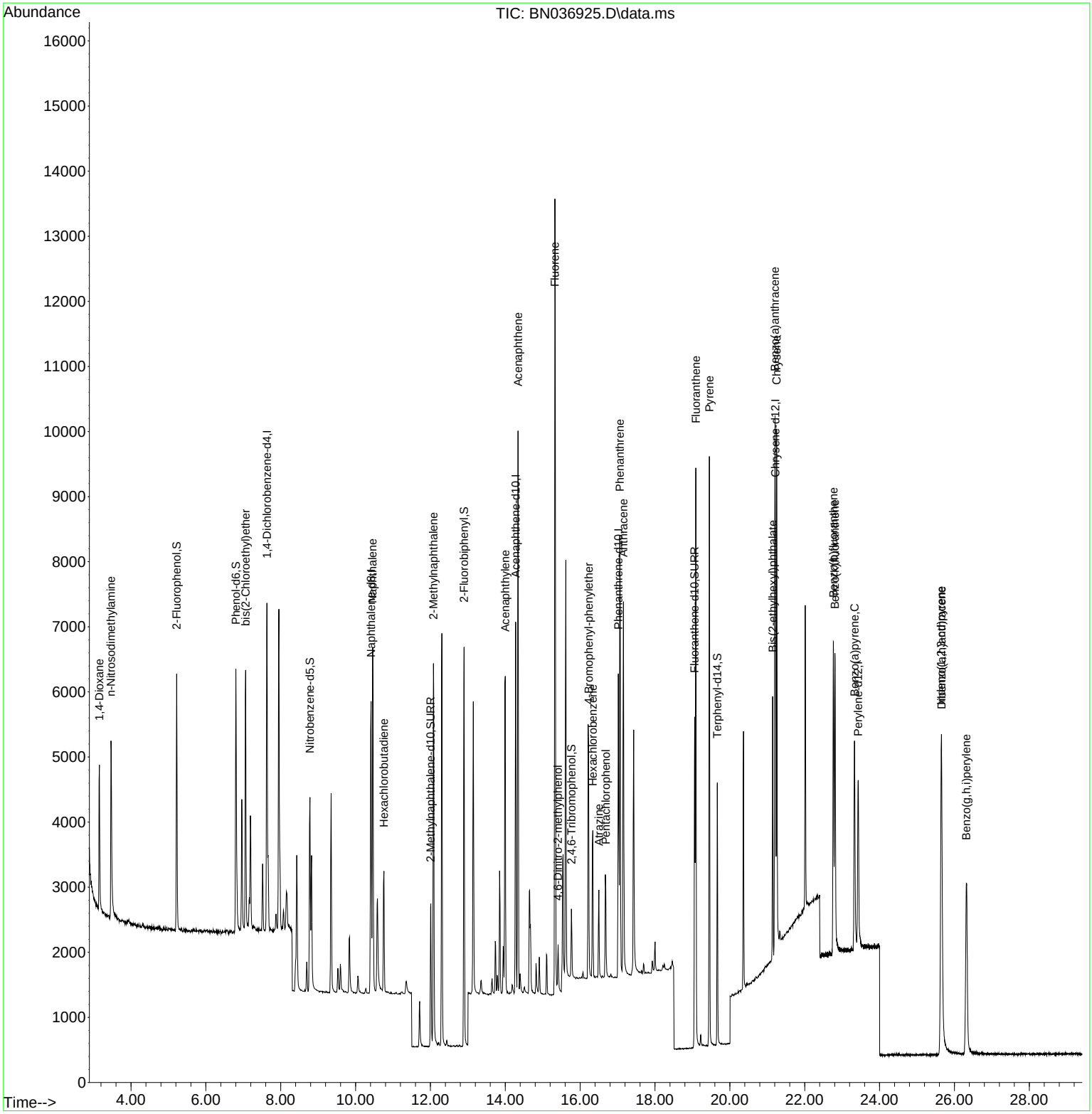
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.633	152	2374	0.400	ng		0.00
7) Naphthalene-d8	10.415	136	5831	0.400	ng		0.00
13) Acenaphthene-d10	14.277	164	3051	0.400	ng		0.00
19) Phenanthrene-d10	17.021	188	5711	0.400	ng		0.00
29) Chrysene-d12	21.216	240	4119	0.400	ng		0.00
35) Perylene-d12	23.427	264	3630	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.221	112	2654	0.433	ng		0.00
5) Phenol-d6	6.802	99	3175	0.425	ng		0.00
8) Nitrobenzene-d5	8.781	82	2394	0.395	ng		0.00
11) 2-Methylnaphthalene-d10	12.006	152	3153	0.390	ng		0.00
14) 2,4,6-Tribromophenol	15.767	330	540	0.404	ng		0.00
15) 2-Fluorobiphenyl	12.899	172	6270	0.425	ng		0.00
27) Fluoranthene-d10	19.059	212	5661	0.387	ng		0.00
31) Terphenyl-d14	19.667	244	3895	0.397	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.155	88	1309	0.437	ng		100
3) n-Nitrosodimethylamine	3.466	42	2398	0.414	ng		100
6) bis(2-Chloroethyl)ether	7.062	93	2778	0.401	ng		100
9) Naphthalene	10.458	128	6735	0.397	ng		100
10) Hexachlorobutadiene	10.757	225	1476	0.399	ng	#	100
12) 2-Methylnaphthalene	12.082	142	4195	0.386	ng		100
16) Acenaphthylene	13.999	152	5817	0.394	ng		100
17) Acenaphthene	14.342	154	3889	0.398	ng		100
18) Fluorene	15.325	166	4955	0.390	ng		100
20) 4,6-Dinitro-2-methylph...	15.411	198	516	0.361	ng		100
21) 4-Bromophenyl-phenylether	16.227	248	1494	0.393	ng		100
22) Hexachlorobenzene	16.338	284	1714	0.408	ng		100
23) Atrazine	16.500	200	1139	0.380	ng		100
24) Pentachlorophenol	16.686	266	824	0.378	ng		100
25) Phenanthrene	17.058	178	7417	0.395	ng		100
26) Anthracene	17.158	178	6553	0.390	ng		100
28) Fluoranthene	19.091	202	7988	0.384	ng		100
30) Pyrene	19.454	202	8067	0.403	ng		100
32) Benzo(a)anthracene	21.207	228	5885	0.392	ng		100
33) Chrysene	21.251	228	6742	0.410	ng		100
34) Bis(2-ethylhexyl)phtha...	21.144	149	3434	0.400	ng		100
36) Indeno(1,2,3-cd)pyrene	25.646	276	6214	0.418	ng		100
37) Benzo(b)fluoranthene	22.766	252	5932	0.394	ng		100
38) Benzo(k)fluoranthene	22.807	252	5983	0.393	ng		100
39) Benzo(a)pyrene	23.331	252	4940	0.398	ng		100
40) Dibenzo(a,h)anthracene	25.658	278	4897	0.419	ng		100
41) Benzo(g,h,i)perylene	26.316	276	5500	0.420	ng		100

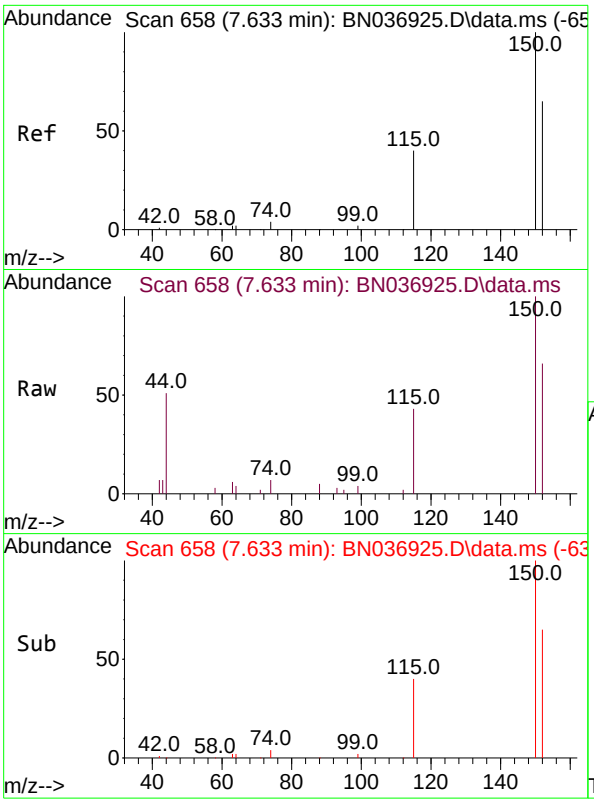
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042825\
Data File : BN036925.D
Acq On : 28 Apr 2025 12:47
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Quant Time: Apr 28 15:12:49 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:11:09 2025
Response via : Initial Calibration



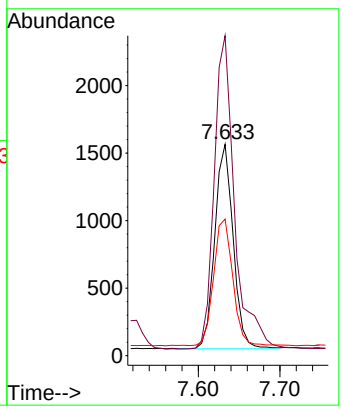


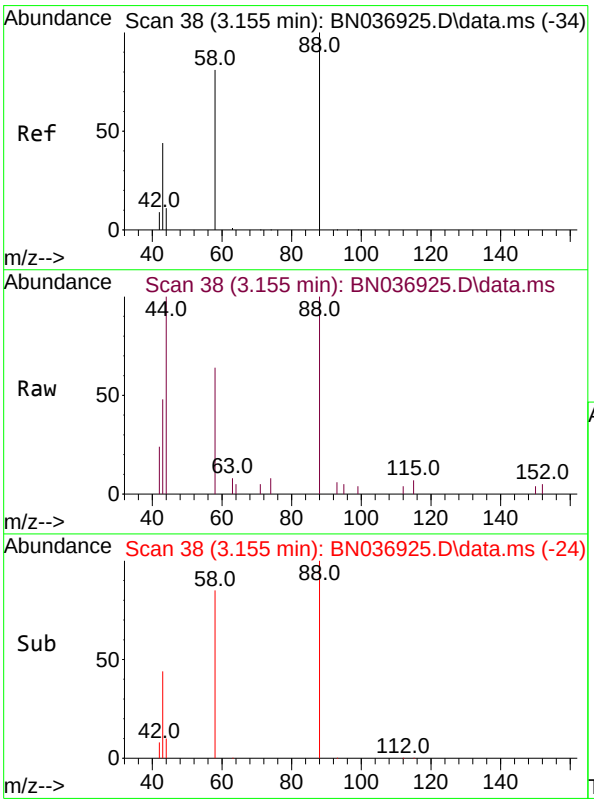
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.633 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:152 Resp: 2374

Ion	Ratio	Lower	Upper
152	100		
150	151.4	121.1	181.7
115	64.7	51.8	77.6

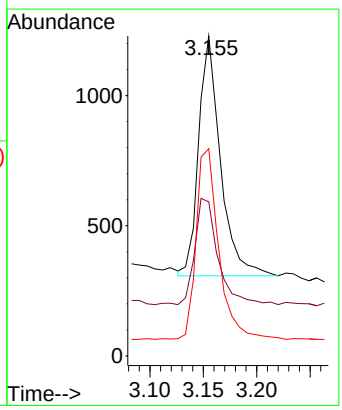


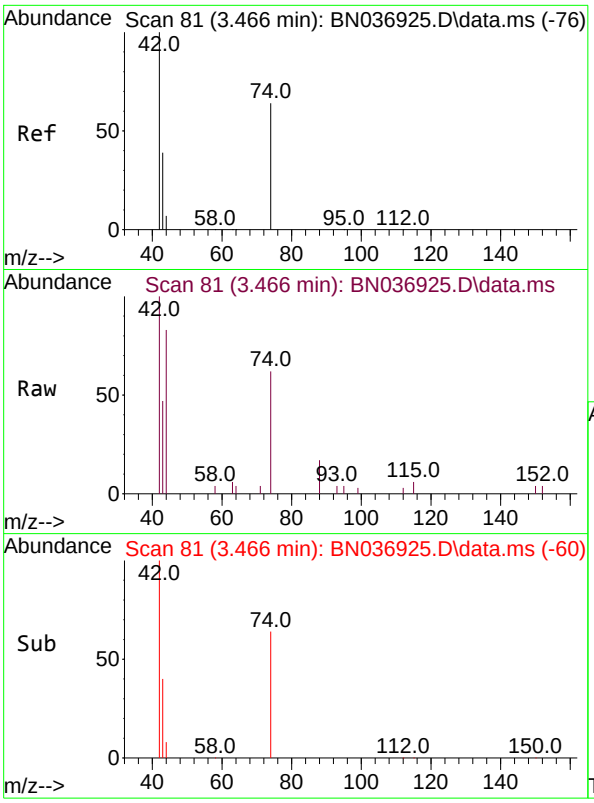


#2
1,4-Dioxane
Concen: 0.437 ng
RT: 3.155 min Scan# 38
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

Tgt Ion: 88 Resp: 1309

Ion	Ratio	Lower	Upper
88	100		
43	47.4	37.9	56.9
58	82.2	65.8	98.6



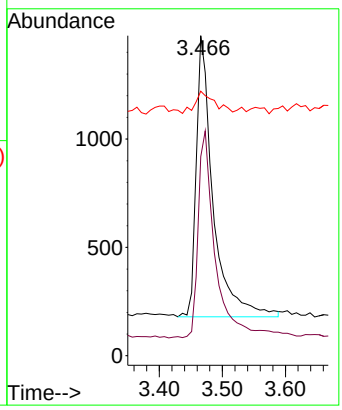


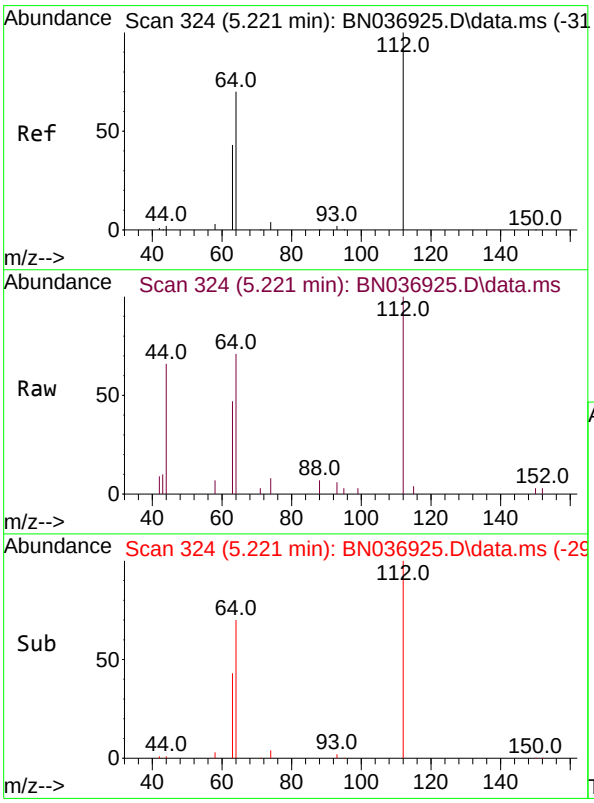
#3
n-Nitrosodimethylamine
Concen: 0.414 ng
RT: 3.466 min Scan# 8
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion: 42 Resp: 2398

Ion	Ratio	Lower	Upper
42	100		
74	74.9	59.9	89.9
44	9.4	7.5	11.3

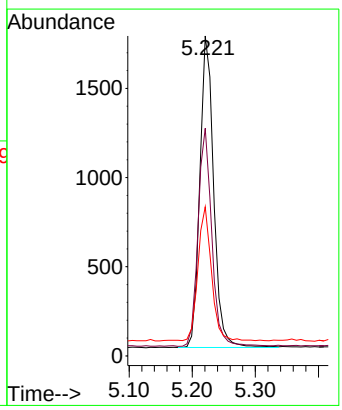


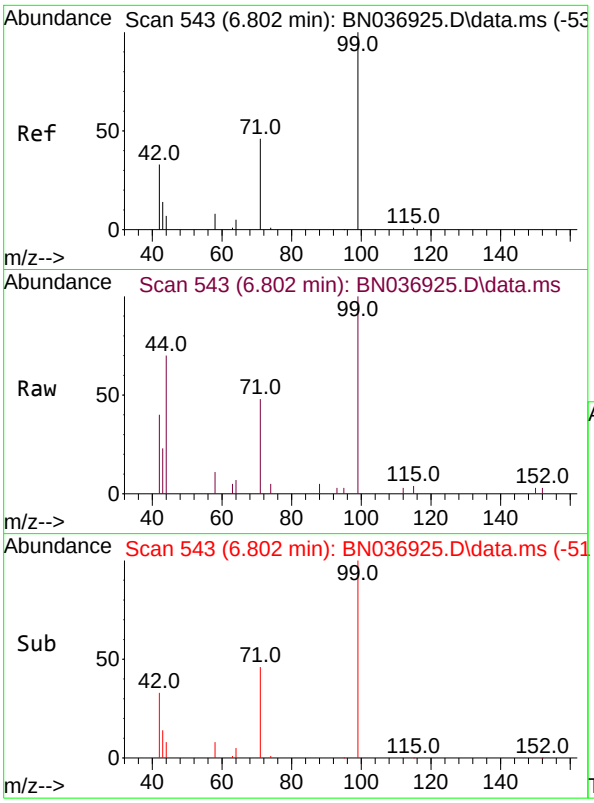


#4
2-Fluorophenol
Concen: 0.433 ng
RT: 5.221 min Scan# 324
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

Tgt Ion:112 Resp: 2654

Ion	Ratio	Lower	Upper
112	100		
64	69.6	55.7	83.5
63	42.4	33.9	50.9



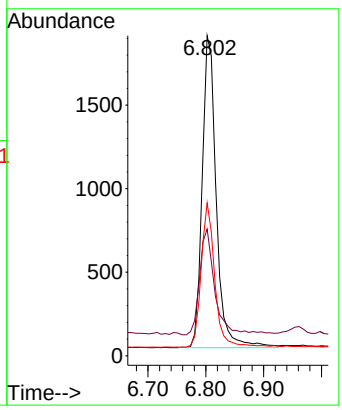


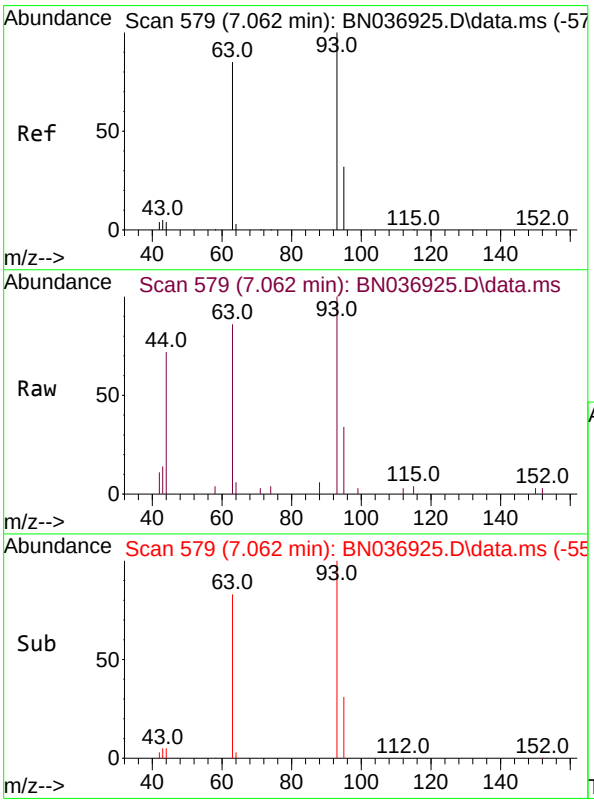
#5
Phenol-d6
Concen: 0.425 ng
RT: 6.802 min Scan# 54
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion: 99 Resp: 3175

Ion	Ratio	Lower	Upper
99	100		
42	37.0	29.6	44.4
71	45.0	36.0	54.0

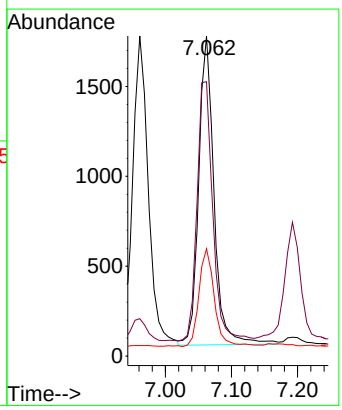


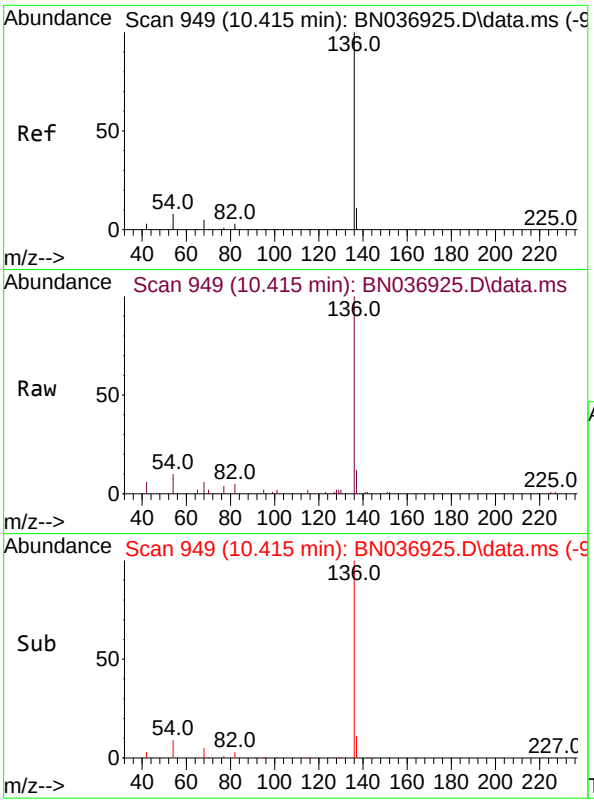


#6
bis(2-Chloroethyl)ether
Concen: 0.401 ng
RT: 7.062 min Scan# 579
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

Tgt Ion: 93 Resp: 2778

Ion	Ratio	Lower	Upper
93	100		
63	86.3	69.0	103.6
95	31.7	25.4	38.0



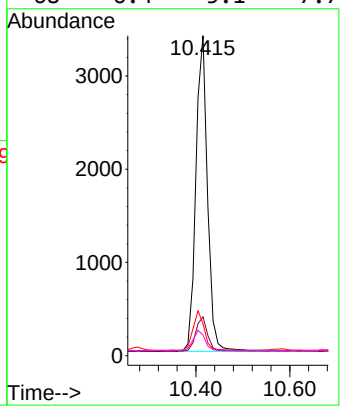


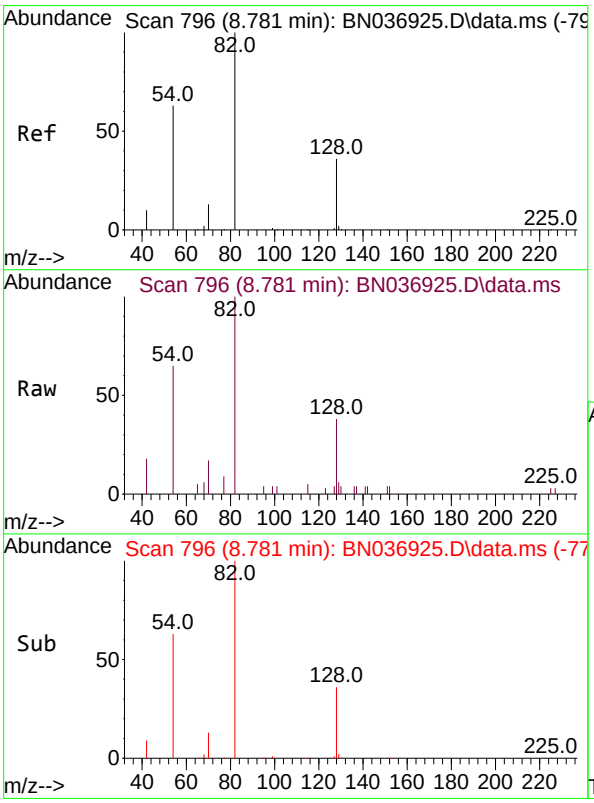
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.415 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:136 Resp: 5831

Ion	Ratio	Lower	Upper
136	100		
137	12.1	9.7	14.5
54	10.0	8.0	12.0
68	6.4	5.1	7.7

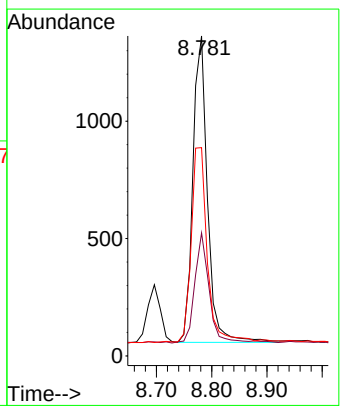


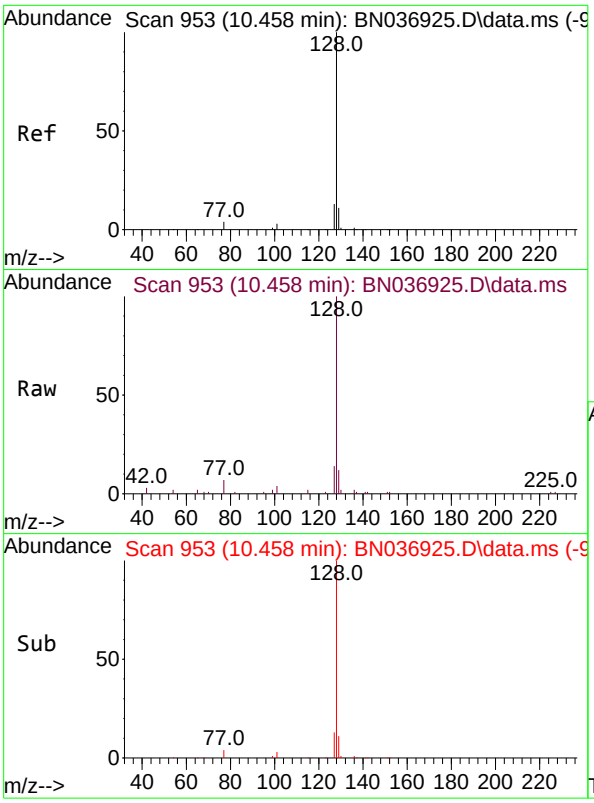


#8
Nitrobenzene-d5
Concen: 0.395 ng
RT: 8.781 min Scan# 796
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

Tgt Ion: 82 Resp: 2394

Ion	Ratio	Lower	Upper
82	100		
128	38.4	30.7	46.1
54	65.1	52.1	78.1



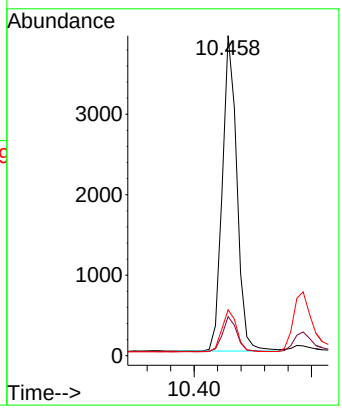


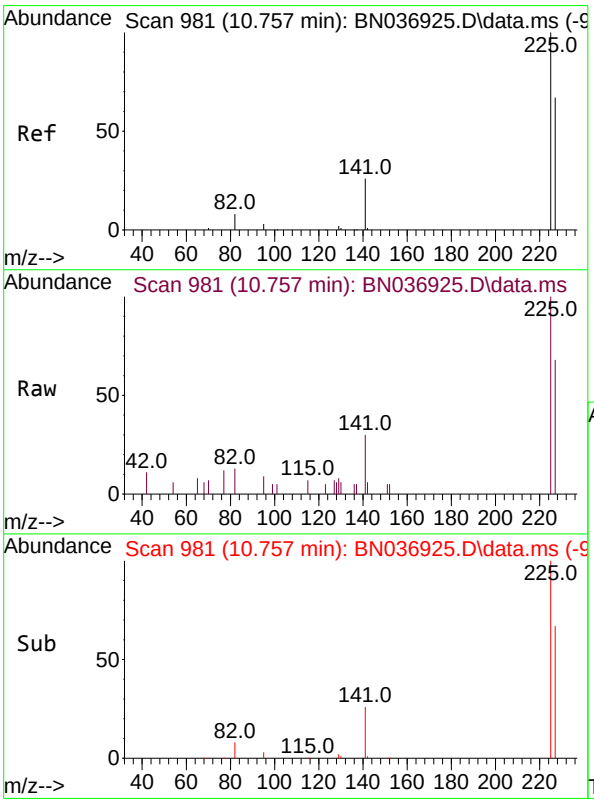
#9
Naphthalene
Concen: 0.397 ng
RT: 10.458 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:128 Resp: 6735

Ion	Ratio	Lower	Upper
128	100		
129	12.2	9.8	14.6
127	14.3	11.4	17.2

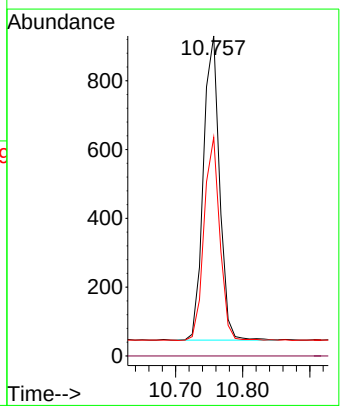


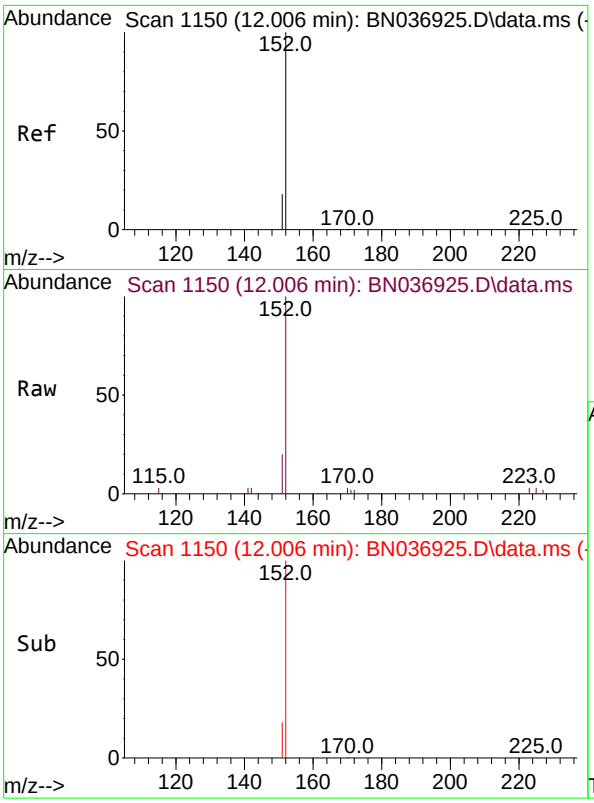


#10
Hexachlorobutadiene
Concen: 0.399 ng
RT: 10.757 min Scan# 981
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

Tgt Ion:225 Resp: 1476

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	65.3	52.2	78.4



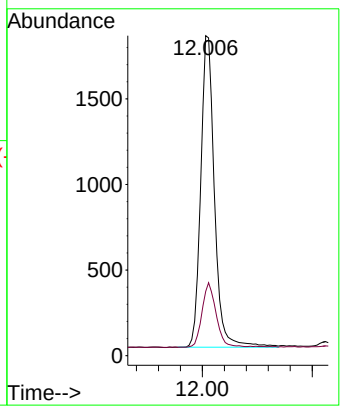


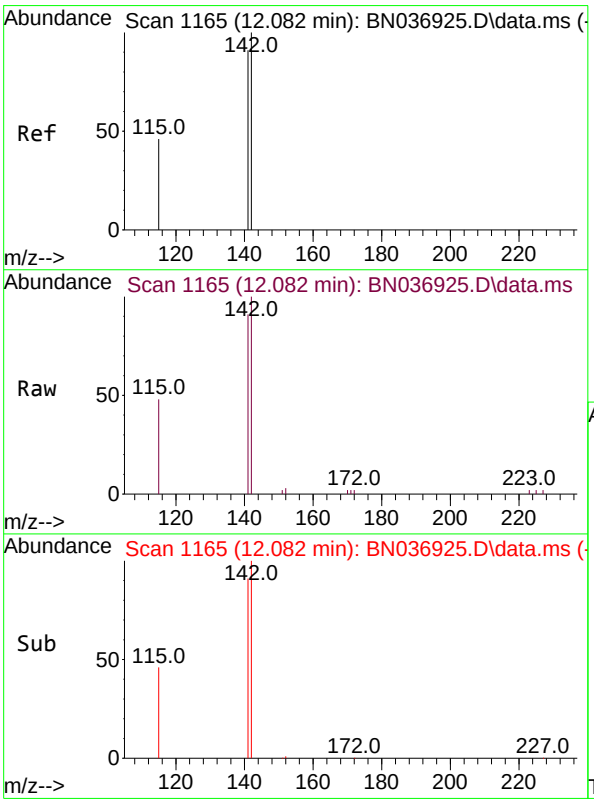
#11
2-Methylnaphthalene-d10
Concen: 0.390 ng
RT: 12.006 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:152 Resp: 3153

Ion	Ratio	Lower	Upper
152	100		
151	21.1	16.9	25.3

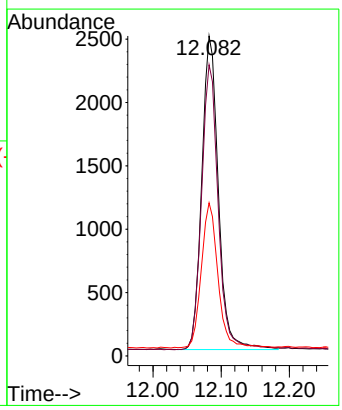


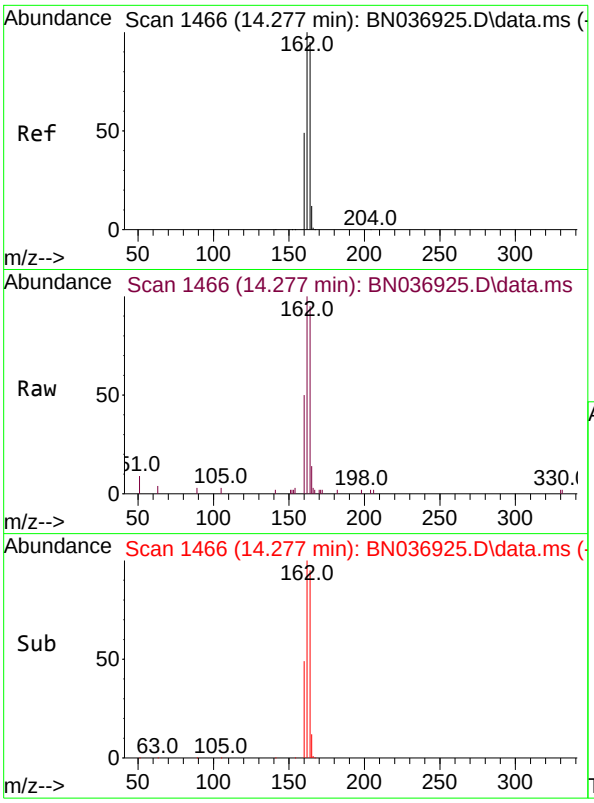


#12
2-Methylnaphthalene
Concen: 0.386 ng
RT: 12.082 min Scan# 1165
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

Tgt Ion:142 Resp: 4195

Ion	Ratio	Lower	Upper
142	100		
141	91.0	72.8	109.2
115	47.8	38.2	57.4



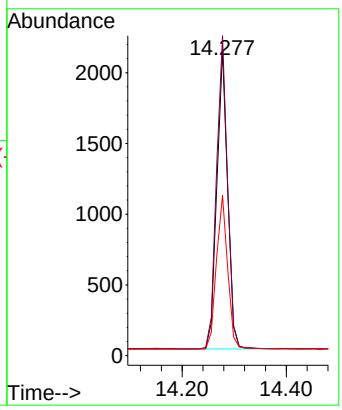


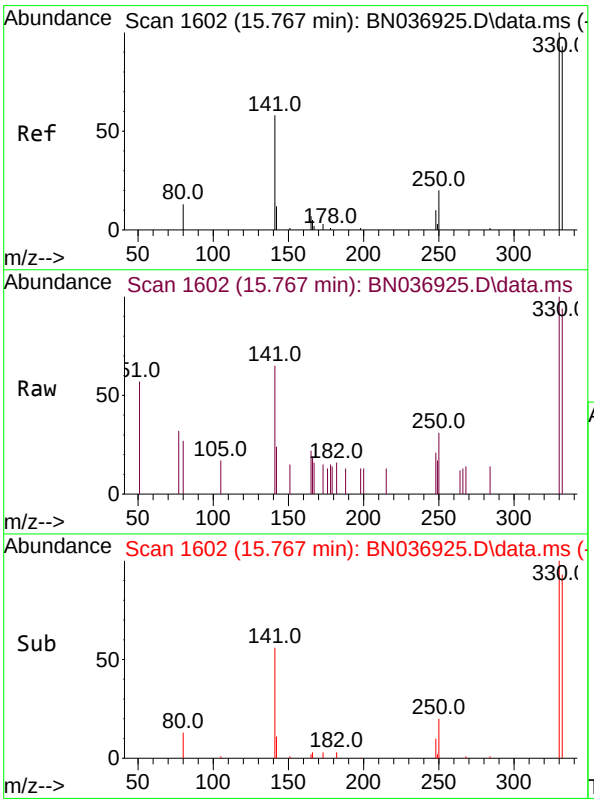
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.277 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:164 Resp: 3051

Ion	Ratio	Lower	Upper
164	100		
162	104.8	83.8	125.8
160	52.5	42.0	63.0

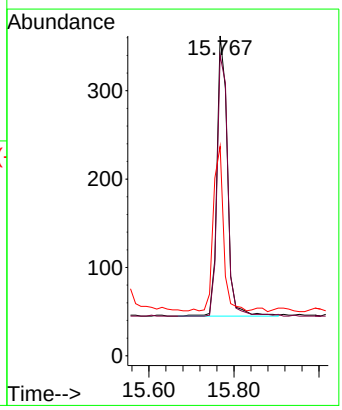


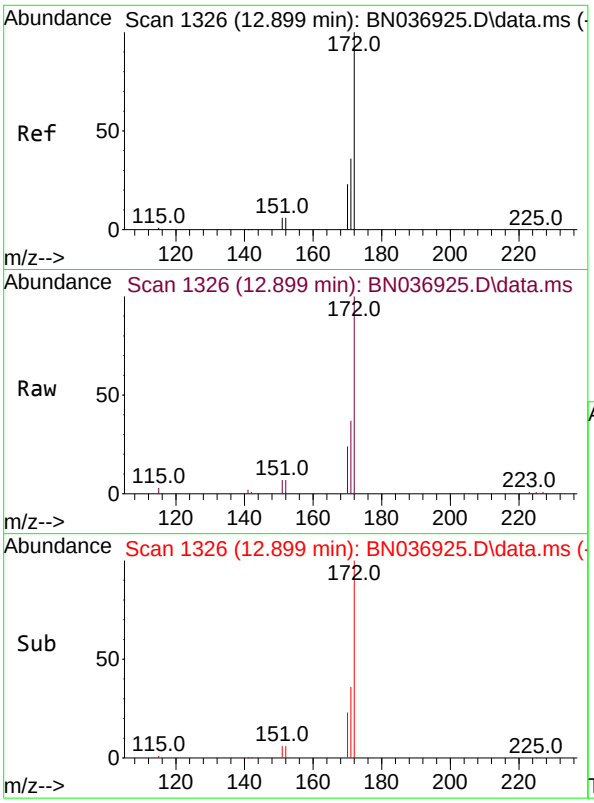


#14
2,4,6-Tribromophenol
Concen: 0.404 ng
RT: 15.767 min Scan# 1602
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

Tgt Ion:330 Resp: 540

Ion	Ratio	Lower	Upper
330	100		
332	95.7	76.3	114.5
141	57.8	45.4	68.2



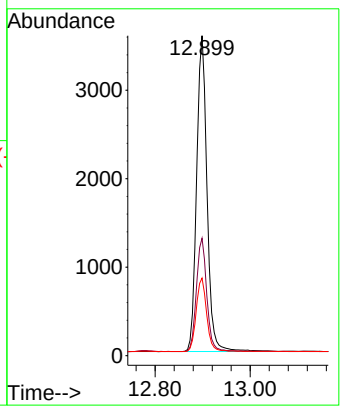


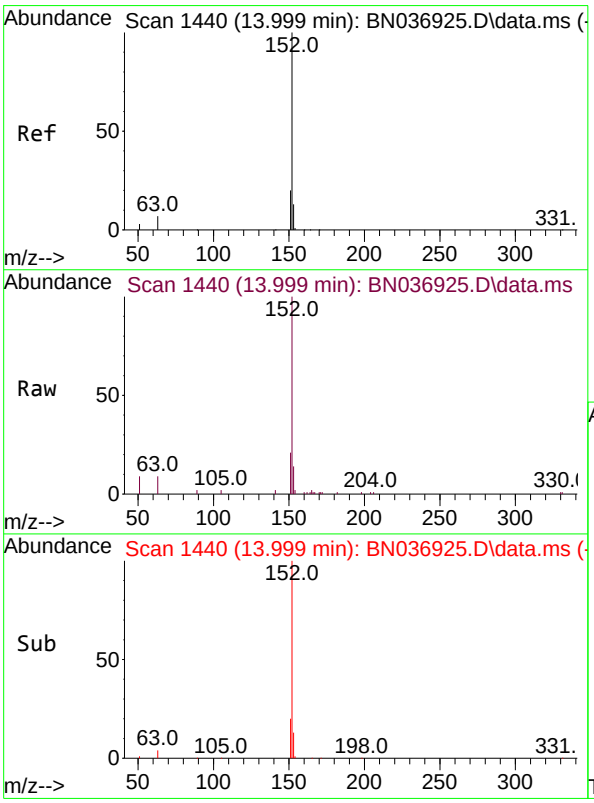
#15
2-Fluorobiphenyl
Concen: 0.425 ng
RT: 12.899 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:172 Resp: 6270

Ion	Ratio	Lower	Upper
172	100		
171	36.7	29.4	44.0
170	24.2	19.4	29.0

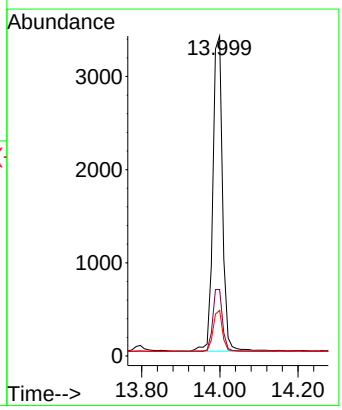


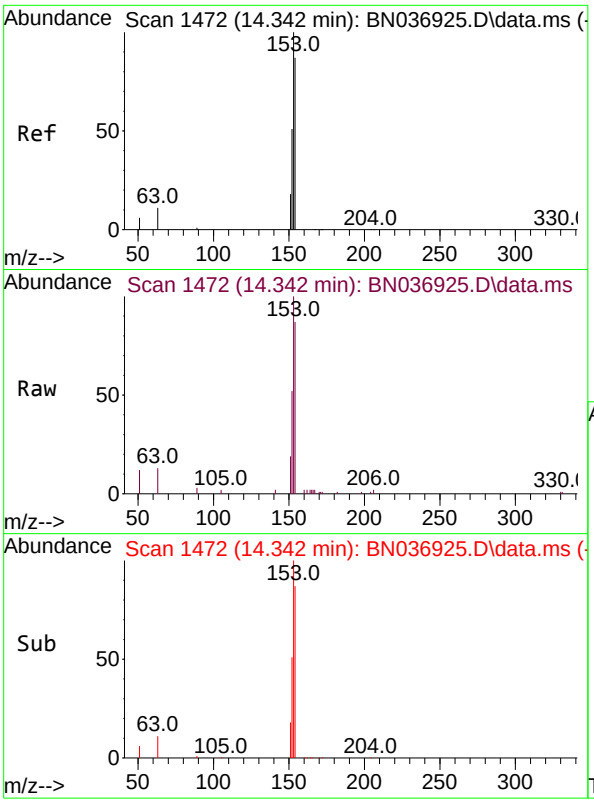


#16
Acenaphthylene
Concen: 0.394 ng
RT: 13.999 min Scan# 1440
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

Tgt Ion:152 Resp: 5817

Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.0	24.0
153	12.7	10.2	15.2



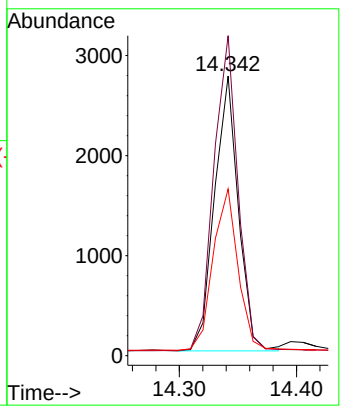


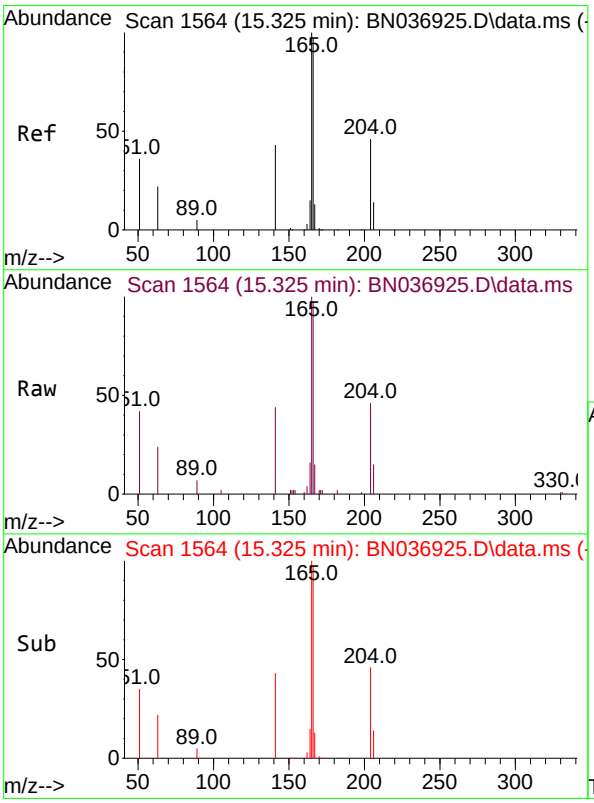
#17
Acenaphthene
Concen: 0.398 ng
RT: 14.342 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:154 Resp: 3889

Ion	Ratio	Lower	Upper
154	100		
153	116.8	93.4	140.2
152	61.9	49.5	74.3

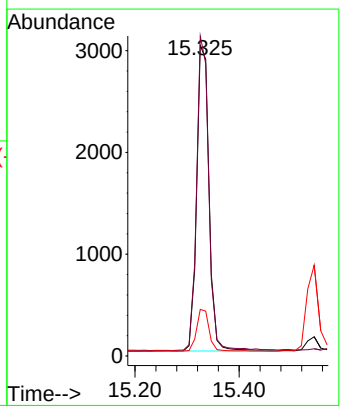


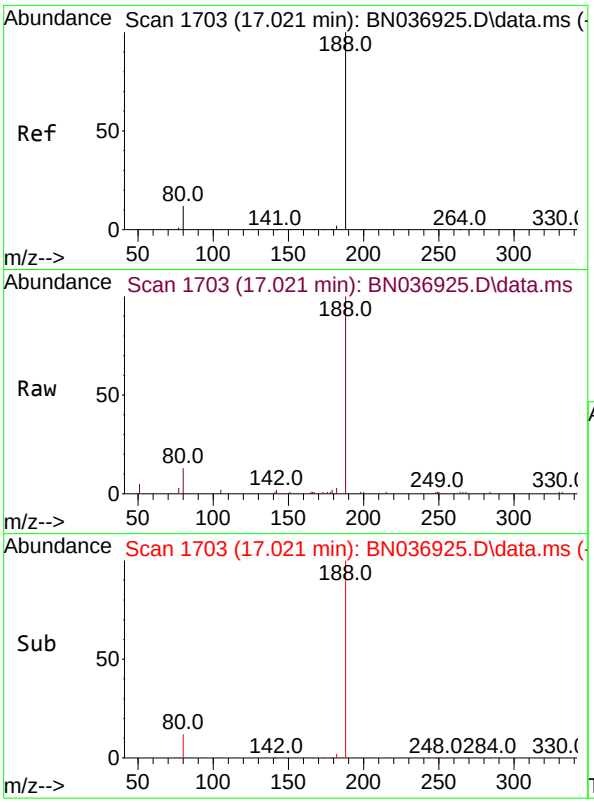


#18
Fluorene
Concen: 0.390 ng
RT: 15.325 min Scan# 1564
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

Tgt Ion:166 Resp: 4955

Ion	Ratio	Lower	Upper
166	100		
165	101.0	80.8	121.2
167	13.5	10.8	16.2



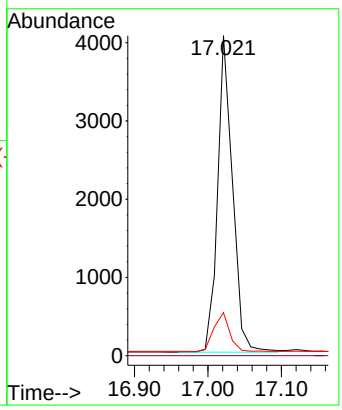


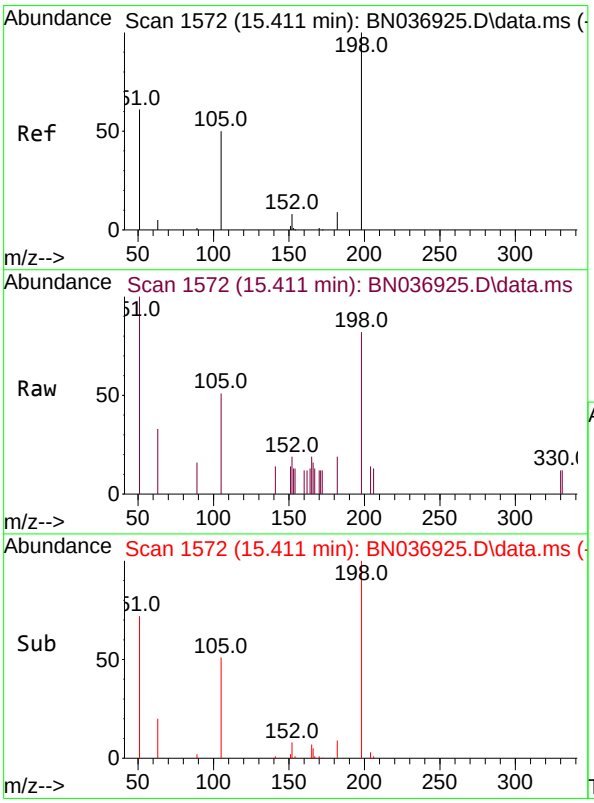
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.021 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:188 Resp: 5711

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	13.4	10.7	16.1

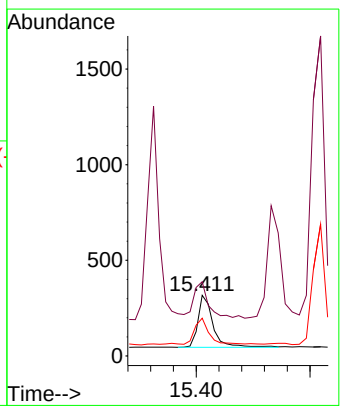


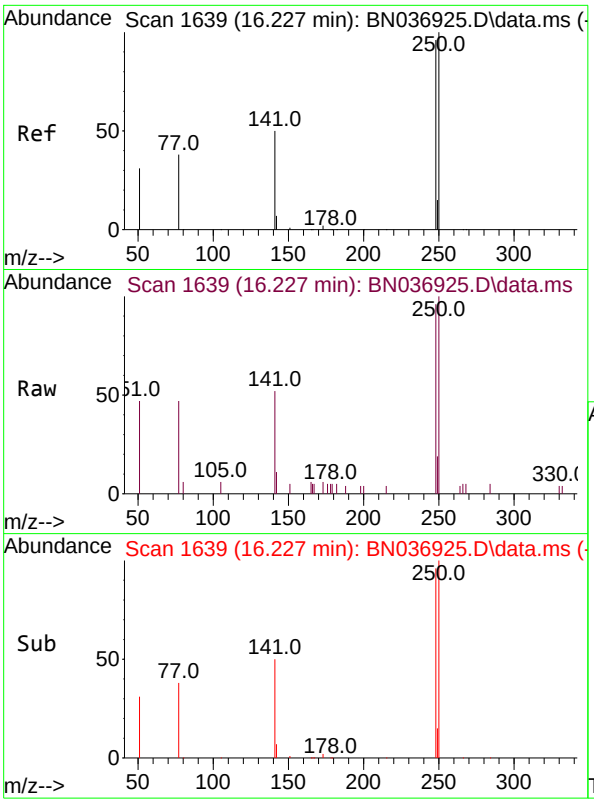


#20
4,6-Dinitro-2-methylphenol
Concen: 0.361 ng
RT: 15.411 min Scan# 1572
Delta R.T. -0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

Tgt Ion:198 Resp: 516

Ion	Ratio	Lower	Upper
198	100		
51	122.4	97.9	146.9
105	62.5	50.0	75.0



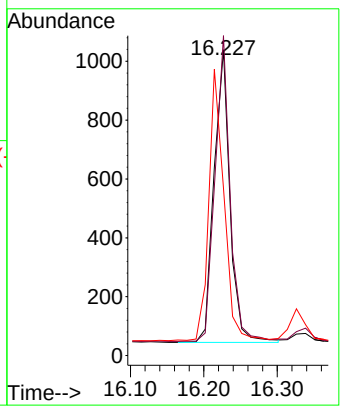


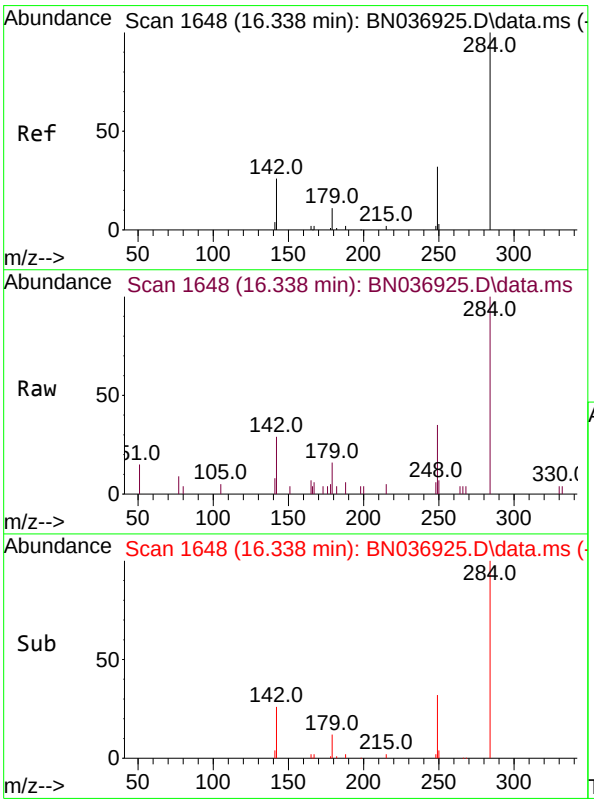
#21
4-Bromophenyl-phenylether
Concen: 0.393 ng
RT: 16.227 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:248 Resp: 1494

Ion	Ratio	Lower	Upper
248	100		
250	104.6	83.7	125.5
141	54.8	43.8	65.8

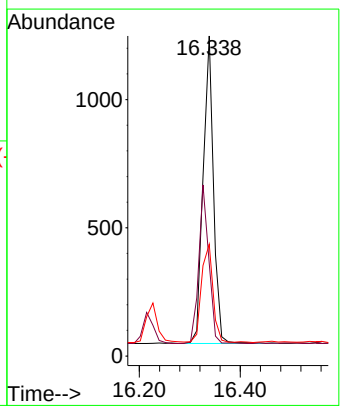


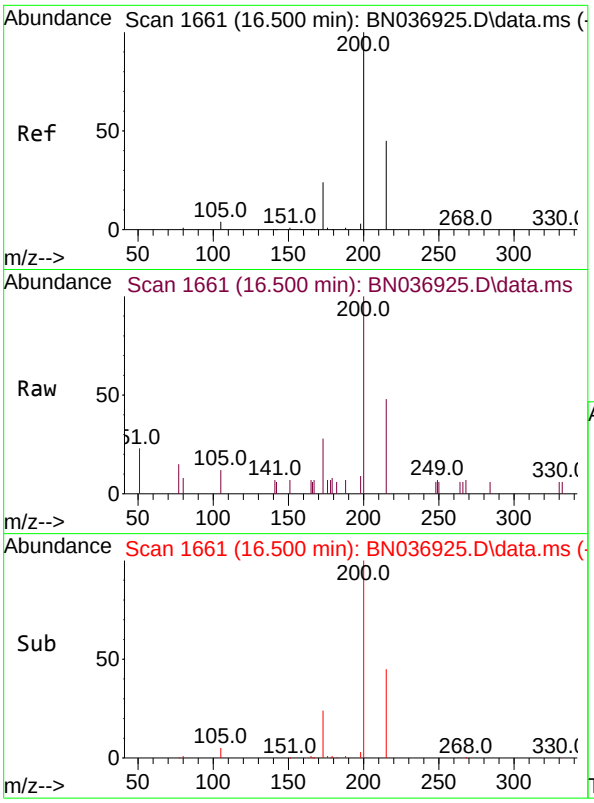


#22
Hexachlorobenzene
Concen: 0.408 ng
RT: 16.338 min Scan# 1648
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

Tgt Ion:284 Resp: 1714

Ion	Ratio	Lower	Upper
284	100		
142	50.0	40.0	60.0
249	35.2	28.2	42.2



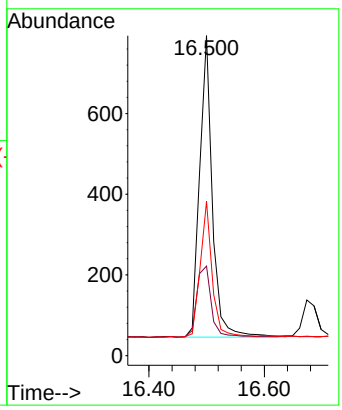


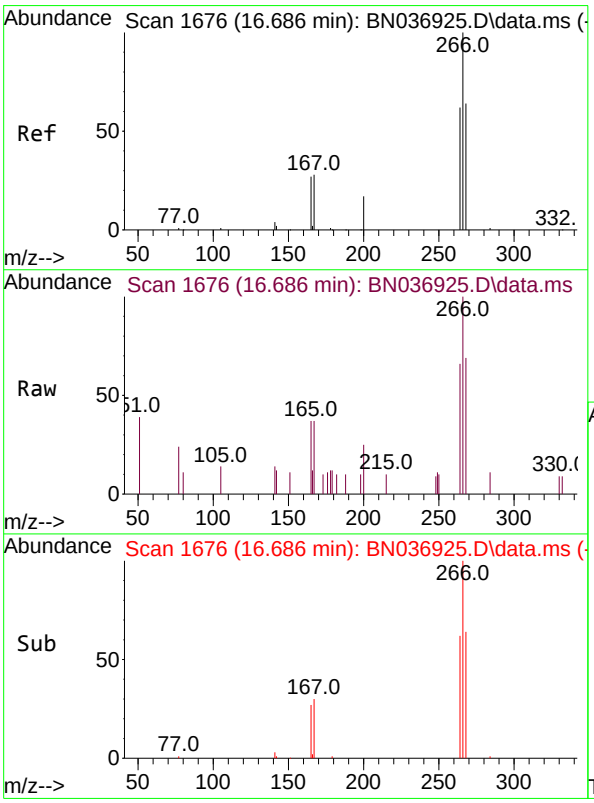
#23
Atrazine
Concen: 0.380 ng
RT: 16.500 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:200 Resp: 1139

Ion	Ratio	Lower	Upper
200	100		
173	28.0	22.4	33.6
215	48.2	38.6	57.8

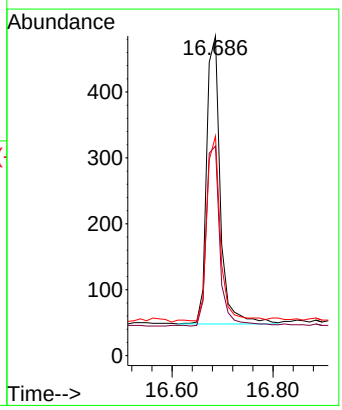


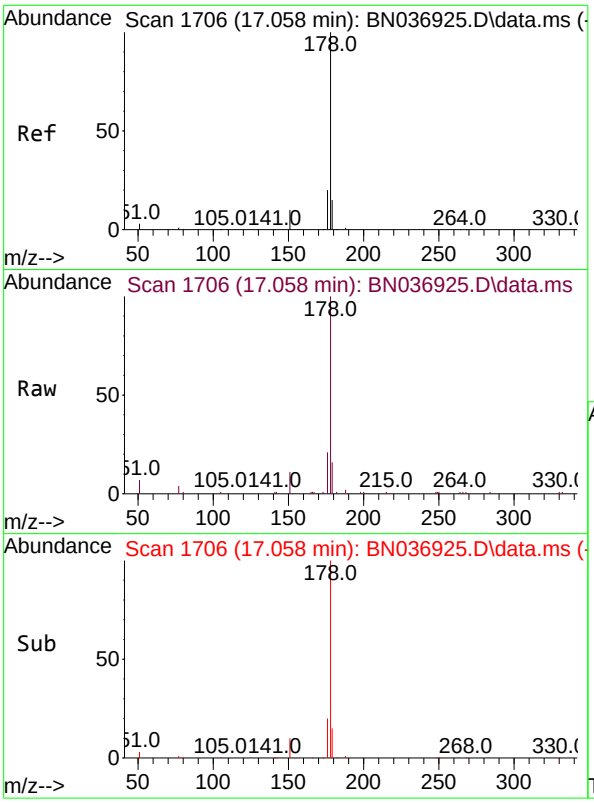


#24
Pentachlorophenol
Concen: 0.378 ng
RT: 16.686 min Scan# 1676
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

Tgt Ion:266 Resp: 824

Ion	Ratio	Lower	Upper
266	100		
264	62.4	49.9	74.9
268	65.3	52.2	78.4



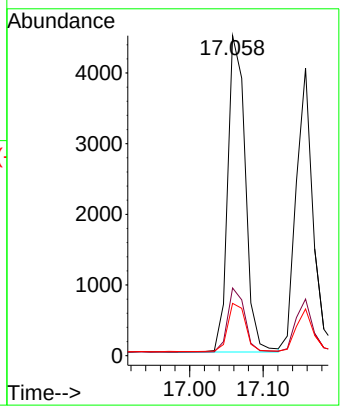


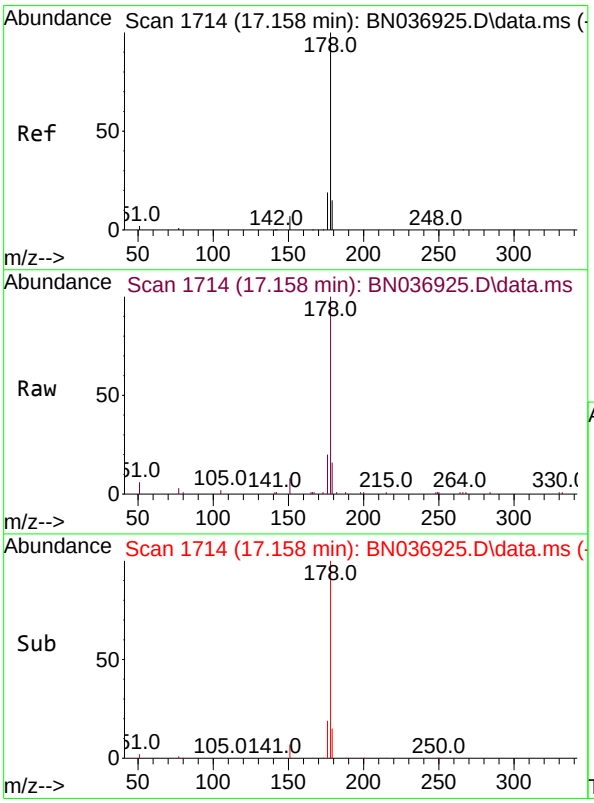
#25
Phenanthrene
Concen: 0.395 ng
RT: 17.058 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:178 Resp: 7417

Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.7	23.5
179	15.5	12.4	18.6

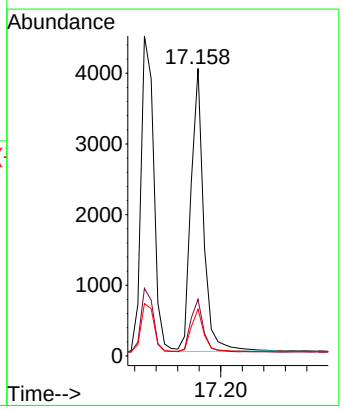


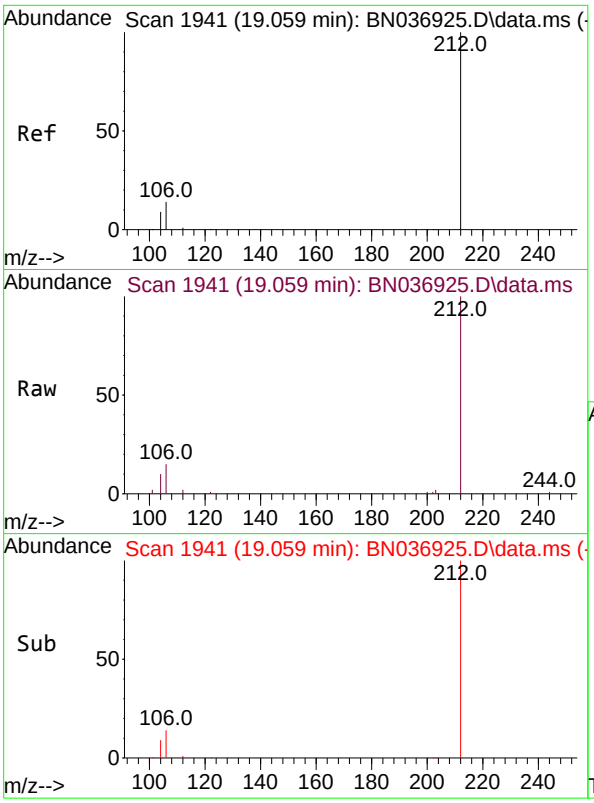


#26
Anthracene
Concen: 0.390 ng
RT: 17.158 min Scan# 1714
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

Tgt Ion:178 Resp: 6553

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.3	22.9
179	15.0	12.1	18.1



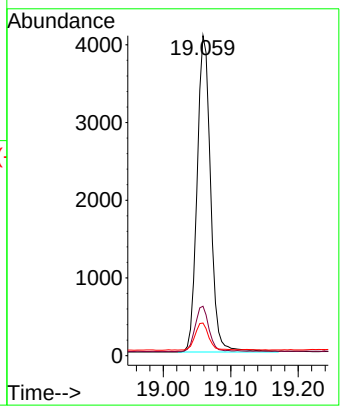


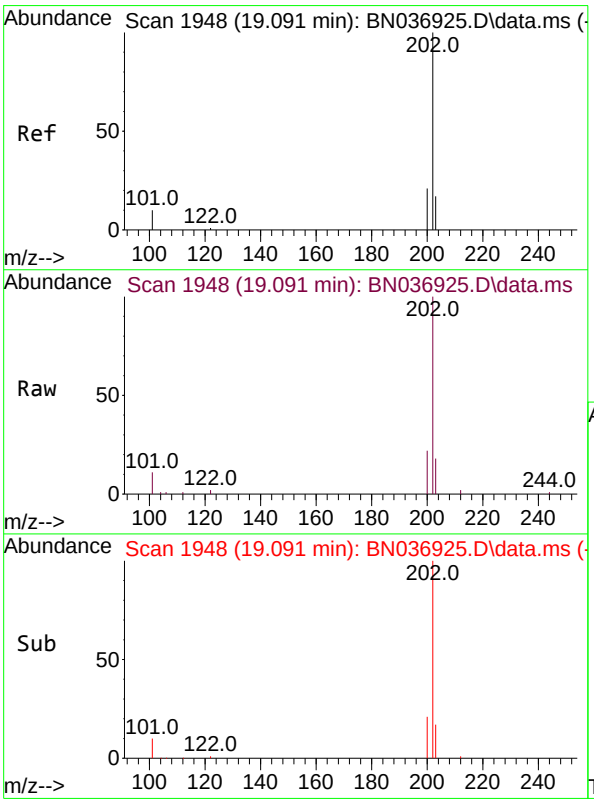
#27
Fluoranthene-d10
Concen: 0.387 ng
RT: 19.059 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:212 Resp: 5661

Ion	Ratio	Lower	Upper
212	100		
106	14.5	11.6	17.4
104	8.7	7.0	10.4

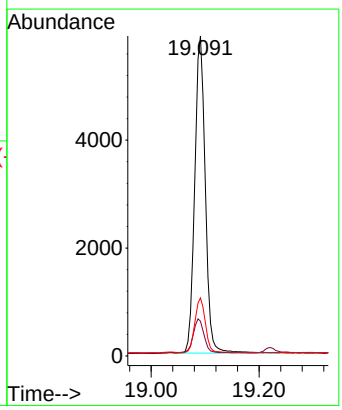


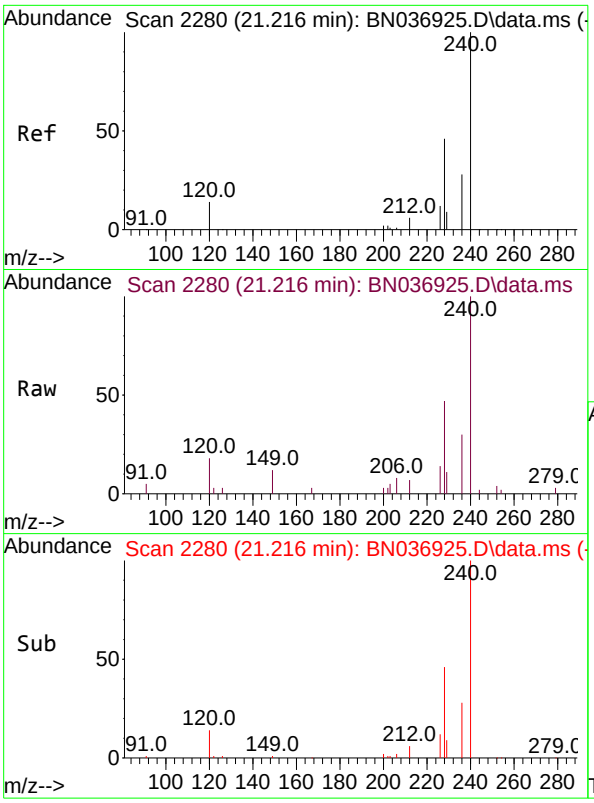


#28
Fluoranthene
Concen: 0.384 ng
RT: 19.091 min Scan# 1948
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

Tgt Ion:202 Resp: 7988

Ion	Ratio	Lower	Upper
202	100		
101	10.6	8.5	12.7
203	17.1	13.7	20.5



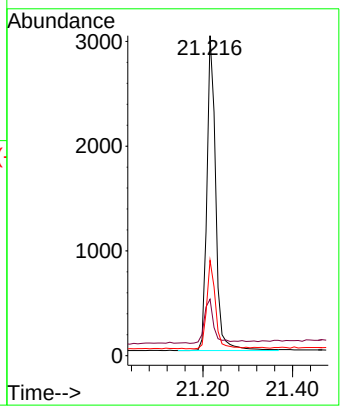


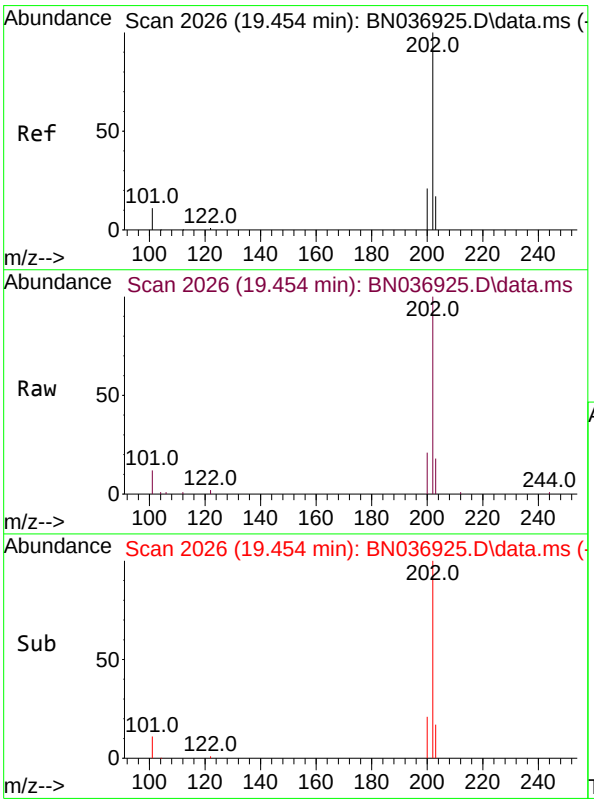
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.216 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:240 Resp: 4119

Ion	Ratio	Lower	Upper
240	100		
120	17.6	14.1	21.1
236	29.8	23.8	35.8

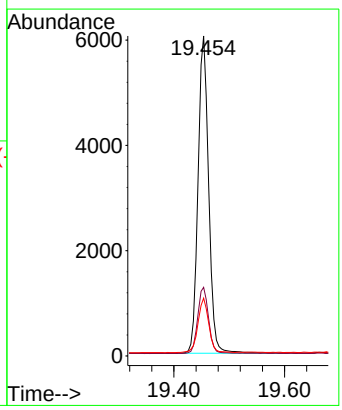


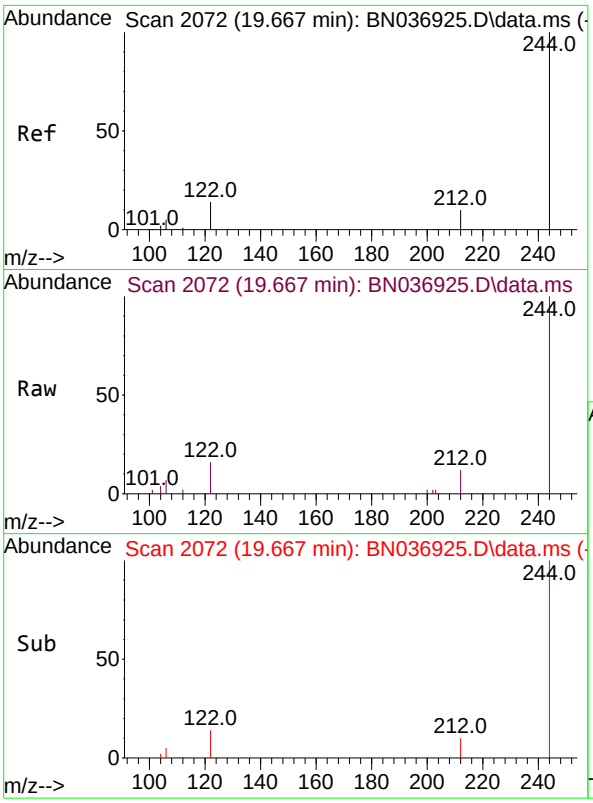


#30
Pyrene
Concen: 0.403 ng
RT: 19.454 min Scan# 2026
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

Tgt Ion:202 Resp: 8067

Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.0	25.6
203	17.5	14.0	21.0



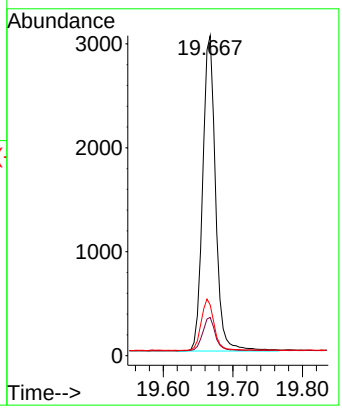


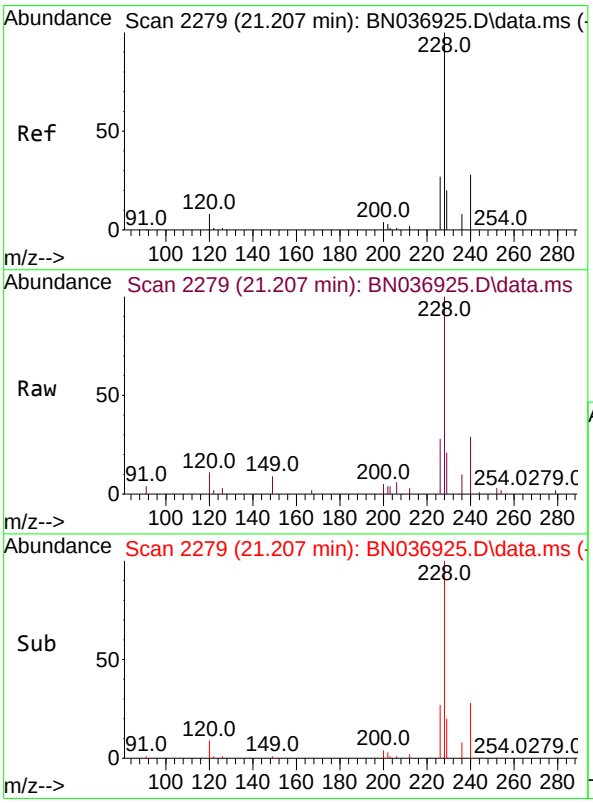
#31
Terphenyl-d14
Concen: 0.397 ng
RT: 19.667 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:244 Resp: 3895

Ion	Ratio	Lower	Upper
244	100		
212	12.0	9.6	14.4
122	15.9	12.7	19.1

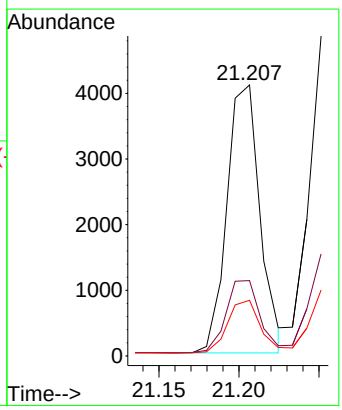


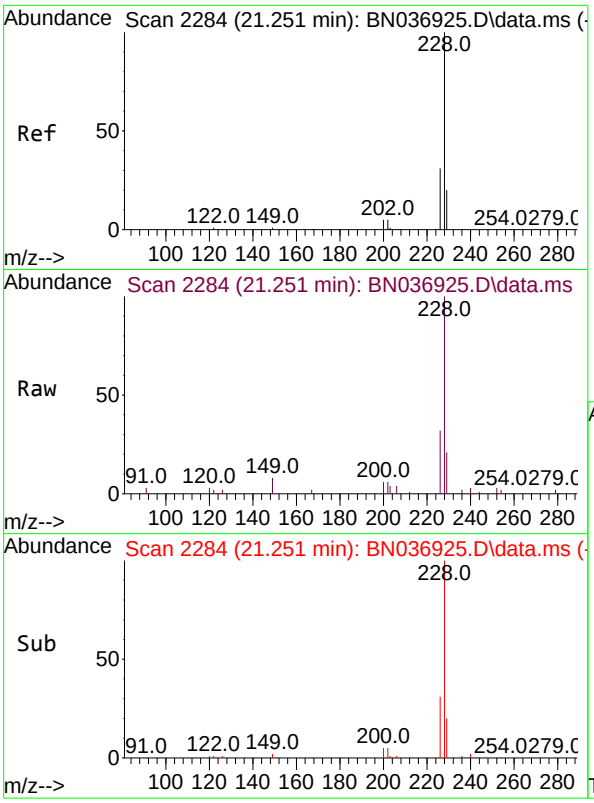


#32
Benzo(a)anthracene
Concen: 0.392 ng
RT: 21.207 min Scan# 2279
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

Tgt Ion:228 Resp: 5885

Ion	Ratio	Lower	Upper
228	100		
226	27.8	22.2	33.4
229	20.5	16.4	24.6



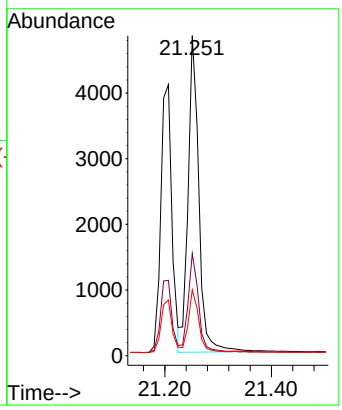


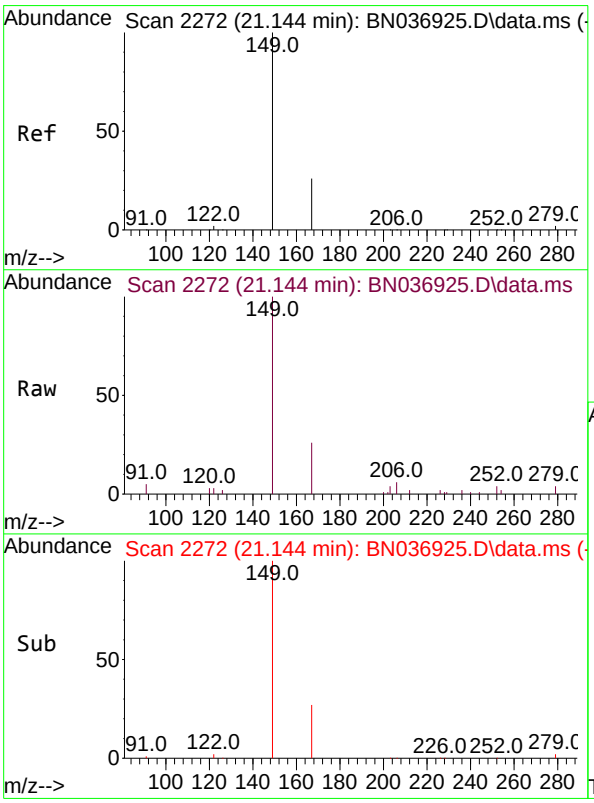
#33
Chrysene
Concen: 0.410 ng
RT: 21.251 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:228 Resp: 6742

Ion	Ratio	Lower	Upper
228	100		
226	31.9	25.5	38.3
229	20.6	16.5	24.7

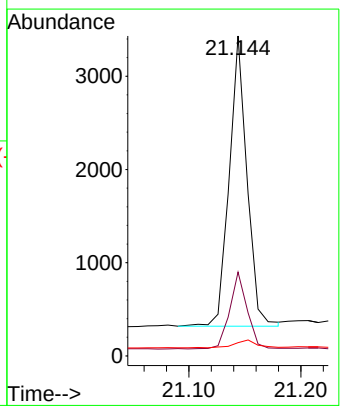


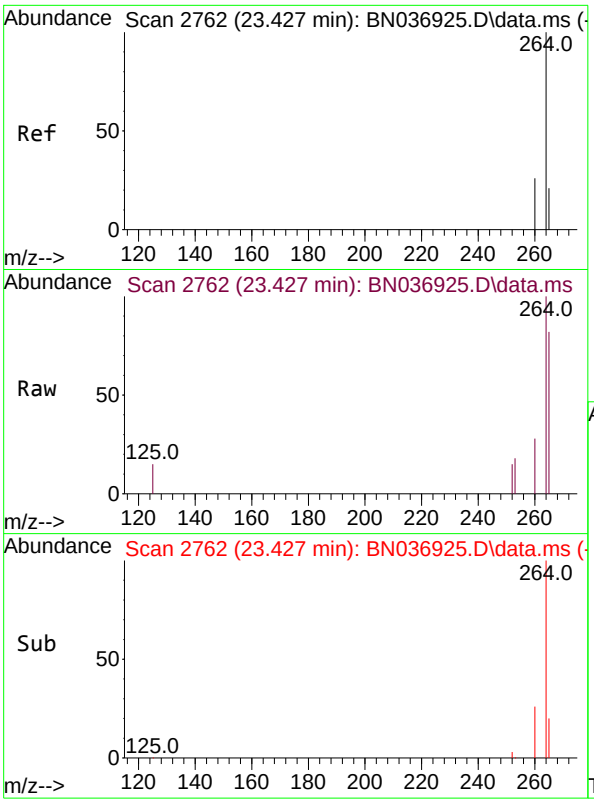


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.400 ng
RT: 21.144 min Scan# 2272
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

Tgt Ion:149 Resp: 3434

Ion	Ratio	Lower	Upper
149	100		
167	26.1	21.0	31.6
279	3.4	2.7	4.1



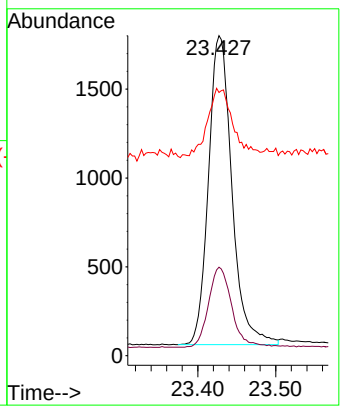


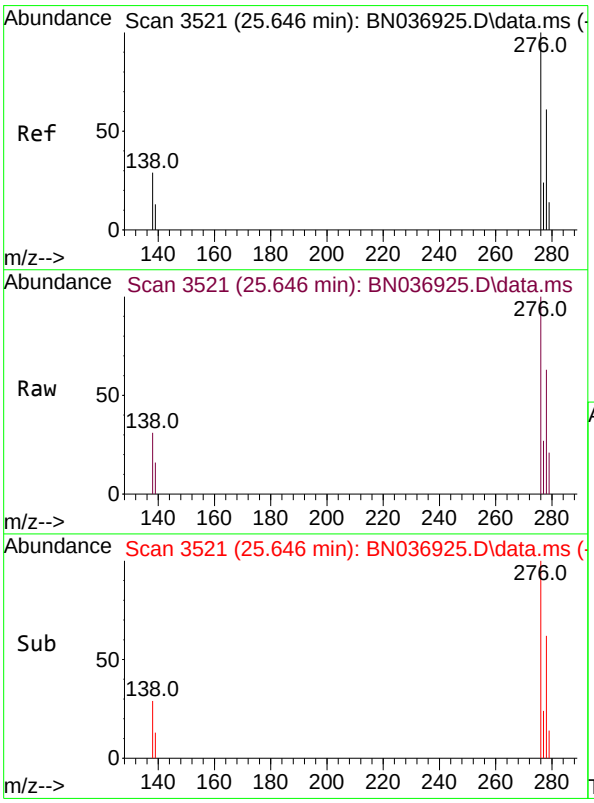
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.427 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:264 Resp: 3630

Ion	Ratio	Lower	Upper
264	100		
260	27.7	22.2	33.2
265	82.2	65.8	98.6

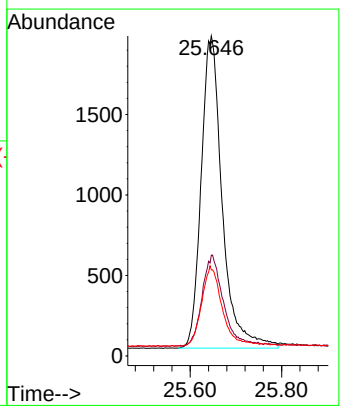


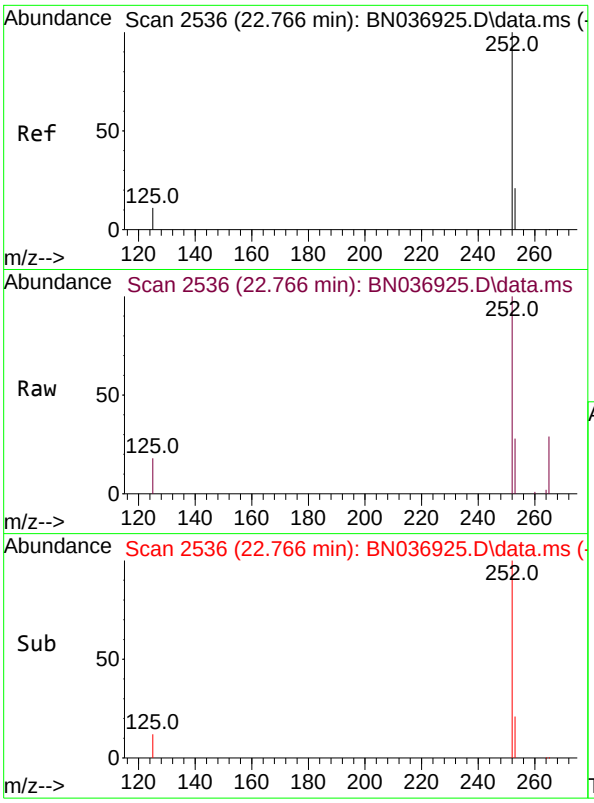


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.418 ng
RT: 25.646 min Scan# 3521
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

Tgt Ion:276 Resp: 6214

Ion	Ratio	Lower	Upper
276	100		
138	28.8	23.0	34.6
277	25.0	20.0	30.0



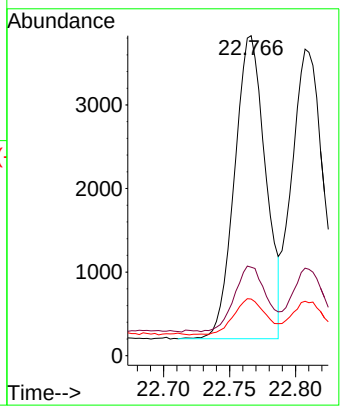


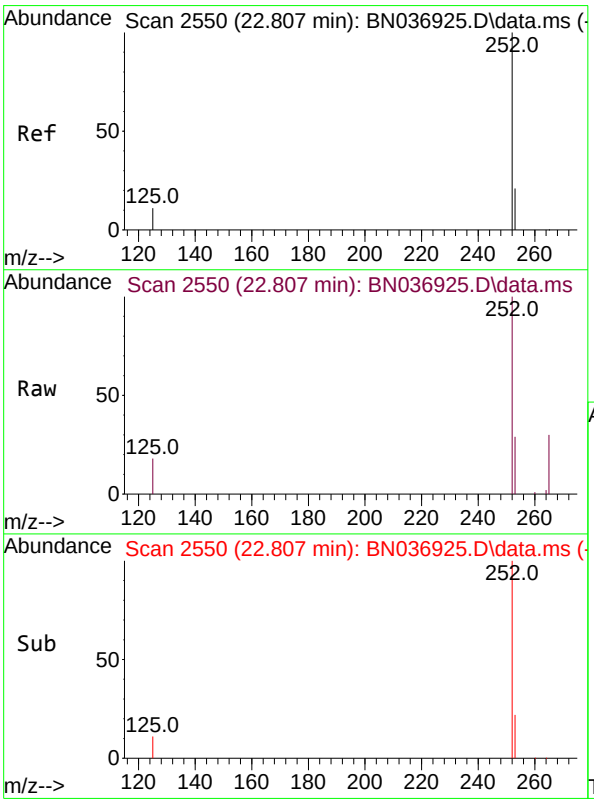
#37
Benzo(b)fluoranthene
Concen: 0.394 ng
RT: 22.766 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:252 Resp: 5932

Ion	Ratio	Lower	Upper
252	100		
253	27.6	22.1	33.1
125	17.7	14.2	21.2

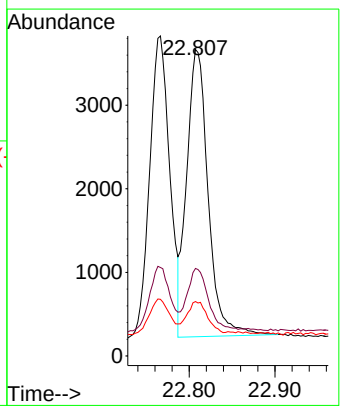


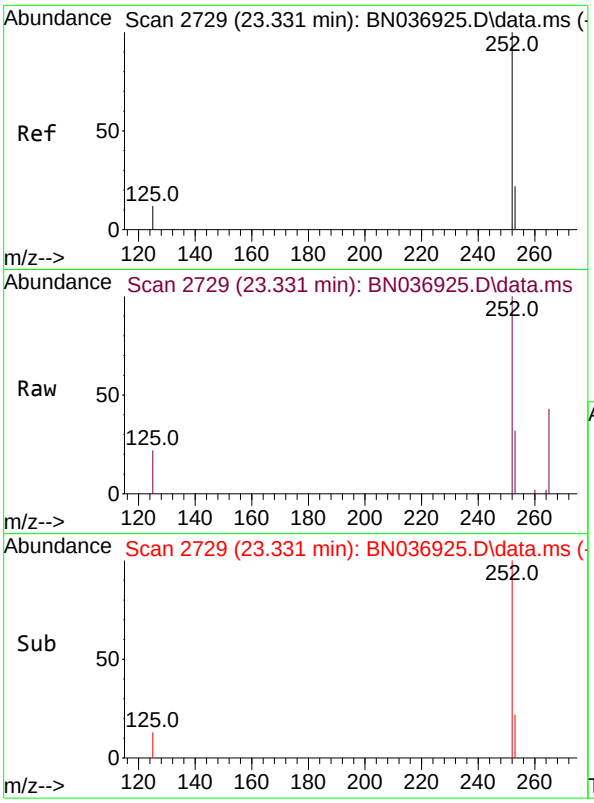


#38
Benzo(k)fluoranthene
Concen: 0.393 ng
RT: 22.807 min Scan# 2550
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

Tgt Ion:252 Resp: 5983

Ion	Ratio	Lower	Upper
252	100		
253	28.5	22.8	34.2
125	17.7	14.2	21.2



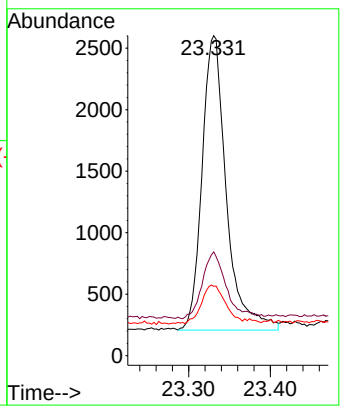


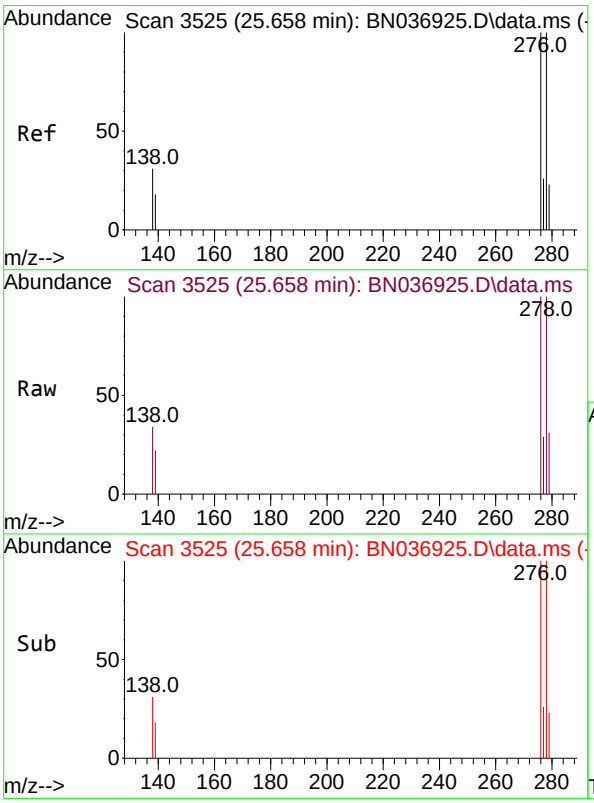
#39
Benzo(a)pyrene
Concen: 0.398 ng
RT: 23.331 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:252 Resp: 4940

Ion	Ratio	Lower	Upper
252	100		
253	32.4	25.9	38.9
125	21.7	17.4	26.0

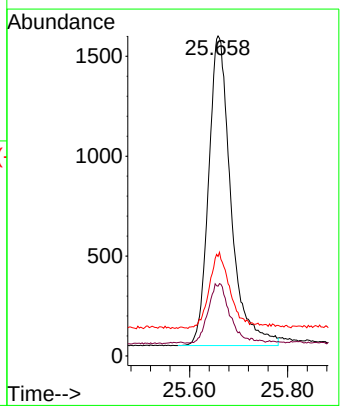


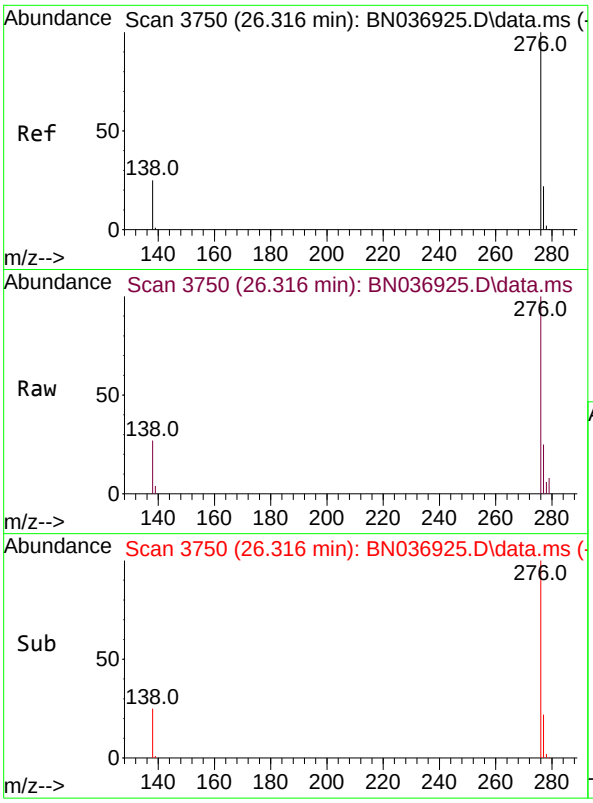


#40
Dibenzo(a,h)anthracene
Concen: 0.419 ng
RT: 25.658 min Scan# 3525
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

Tgt Ion:278 Resp: 4897

Ion	Ratio	Lower	Upper
278	100		
139	21.8	17.4	26.2
279	31.1	24.9	37.3



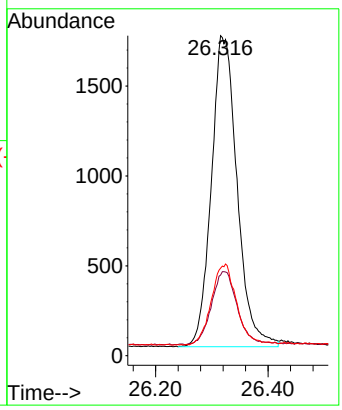


#41
Benzo(g,h,i)perylene
Concen: 0.420 ng
RT: 26.316 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:276 Resp: 5500

Ion	Ratio	Lower	Upper
276	100		
277	25.2	20.2	30.2
138	27.4	21.9	32.9



Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042825\
Data File : BN036926.D
Acq On : 28 Apr 2025 13:24
Operator : RC/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Quant Time: Apr 28 15:13:14 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:11:09 2025
Response via : Initial Calibration

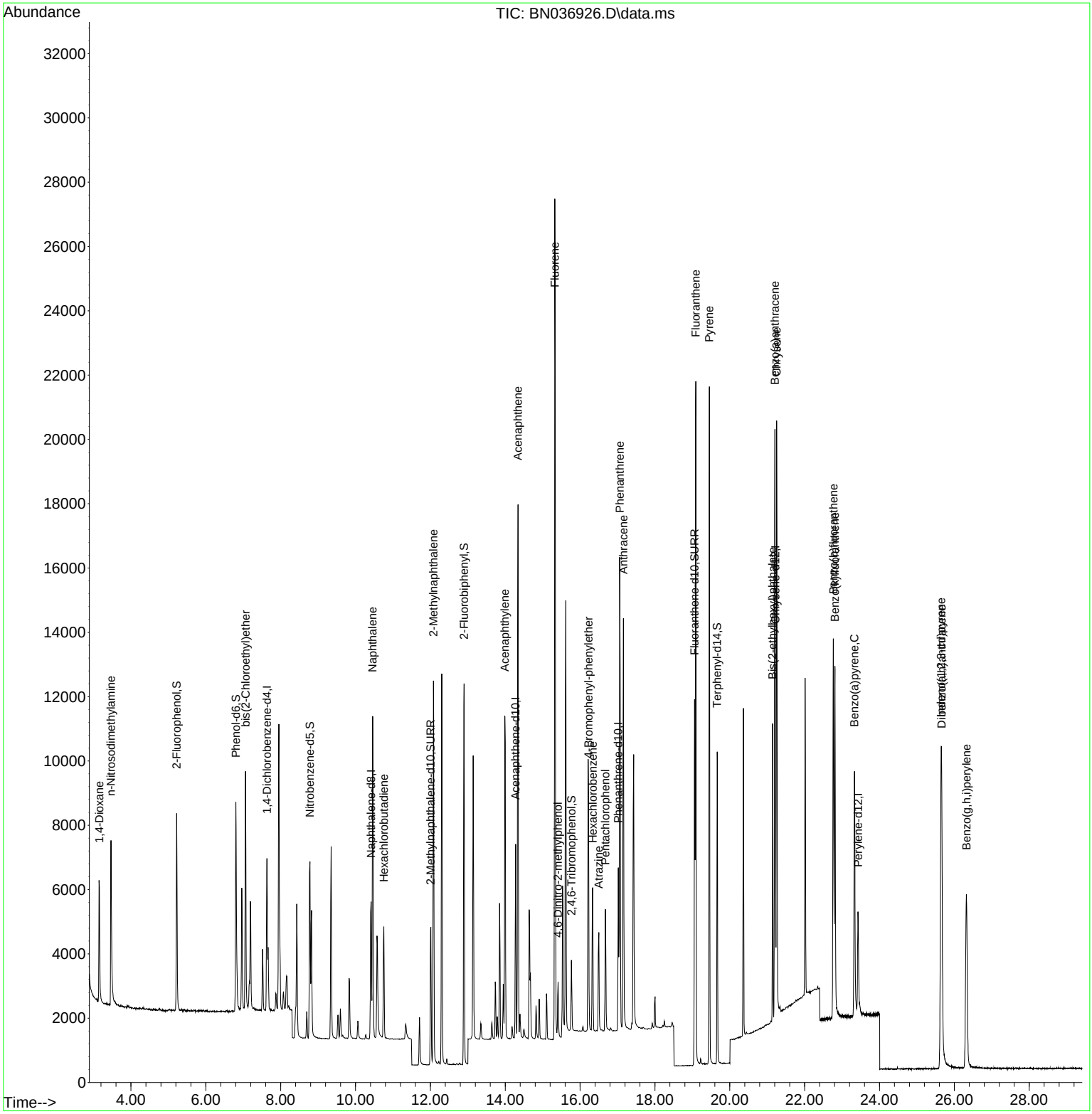
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.633	152	2230	0.400	ng		0.00
7) Naphthalene-d8	10.415	136	5489	0.400	ng		0.00
13) Acenaphthene-d10	14.277	164	3040	0.400	ng		0.00
19) Phenanthrene-d10	17.021	188	6101	0.400	ng		0.00
29) Chrysene-d12	21.215	240	4993	0.400	ng		0.00
35) Perylene-d12	23.427	264	4243	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.220	112	4217	0.733	ng		0.00
5) Phenol-d6	6.802	99	5133	0.732	ng		0.00
8) Nitrobenzene-d5	8.781	82	4432	0.777	ng		0.00
11) 2-Methylnaphthalene-d10	12.006	152	5965	0.784	ng		0.00
14) 2,4,6-Tribromophenol	15.767	330	1061	0.796	ng		0.00
15) 2-Fluorobiphenyl	12.899	172	10275	0.699	ng		0.00
27) Fluoranthene-d10	19.059	212	12399	0.794	ng		0.00
31) Terphenyl-d14	19.663	244	8916	0.750	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.155	88	2257	0.801	ng		97
3) n-Nitrosodimethylamine	3.465	42	4269	0.785	ng	#	97
6) bis(2-Chloroethyl)ether	7.062	93	5078	0.780	ng		99
9) Naphthalene	10.458	128	12423	0.778	ng		99
10) Hexachlorobutadiene	10.757	225	2738	0.786	ng	#	98
12) 2-Methylnaphthalene	12.082	142	8066	0.789	ng		100
16) Acenaphthylene	13.989	152	11455	0.778	ng		100
17) Acenaphthene	14.341	154	7590	0.780	ng		99
18) Fluorene	15.325	166	10080	0.795	ng		98
20) 4,6-Dinitro-2-methylph...	15.410	198	1166	0.763	ng	#	65
21) 4-Bromophenyl-phenylether	16.227	248	3169	0.780	ng		94
22) Hexachlorobenzene	16.338	284	3420	0.762	ng		99
23) Atrazine	16.500	200	2644	0.825	ng		94
24) Pentachlorophenol	16.673	266	1767	0.758	ng		99
25) Phenanthrene	17.058	178	15621	0.778	ng		100
26) Anthracene	17.157	178	13888	0.774	ng		100
28) Fluoranthene	19.091	202	17952	0.808	ng		99
30) Pyrene	19.453	202	17990	0.741	ng		100
32) Benzo(a)anthracene	21.206	228	14201	0.780	ng		99
33) Chrysene	21.251	228	15802	0.792	ng		99
34) Bis(2-ethylhexyl)phtha...	21.144	149	7831	0.753	ng	#	99
36) Indeno(1,2,3-cd)pyrene	25.643	276	12758	0.734	ng		100
37) Benzo(b)fluoranthene	22.766	252	13818	0.786	ng		93
38) Benzo(k)fluoranthene	22.807	252	13927	0.783	ng		93
39) Benzo(a)pyrene	23.330	252	11160	0.770	ng	#	89
40) Dibenzo(a,h)anthracene	25.661	278	9982	0.730	ng		95
41) Benzo(g,h,i)perylene	26.321	276	11072	0.724	ng		99

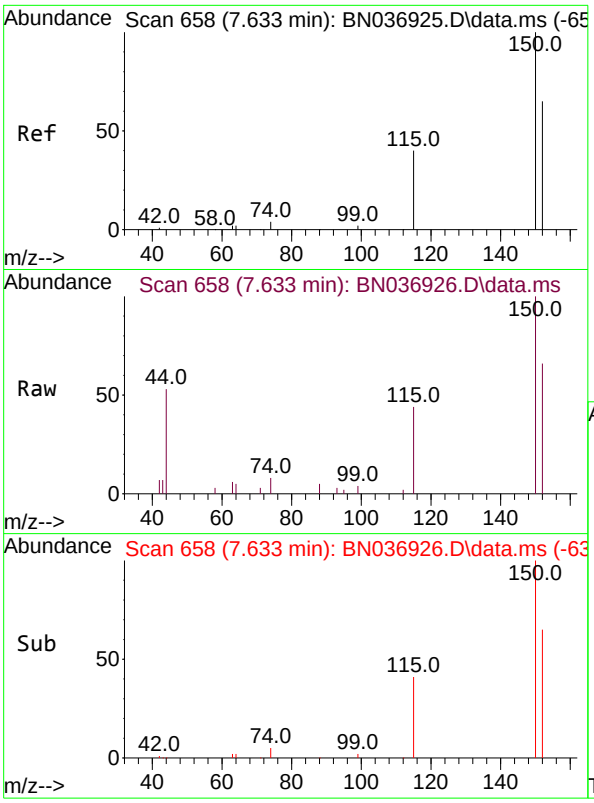
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042825\
Data File : BN036926.D
Acq On : 28 Apr 2025 13:24
Operator : RC/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Quant Time: Apr 28 15:13:14 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:11:09 2025
Response via : Initial Calibration



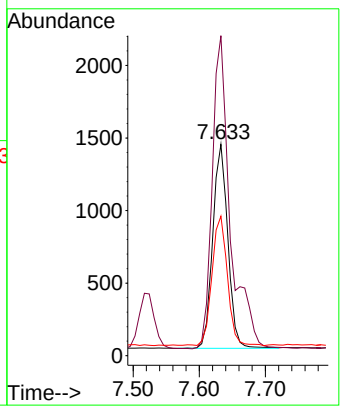


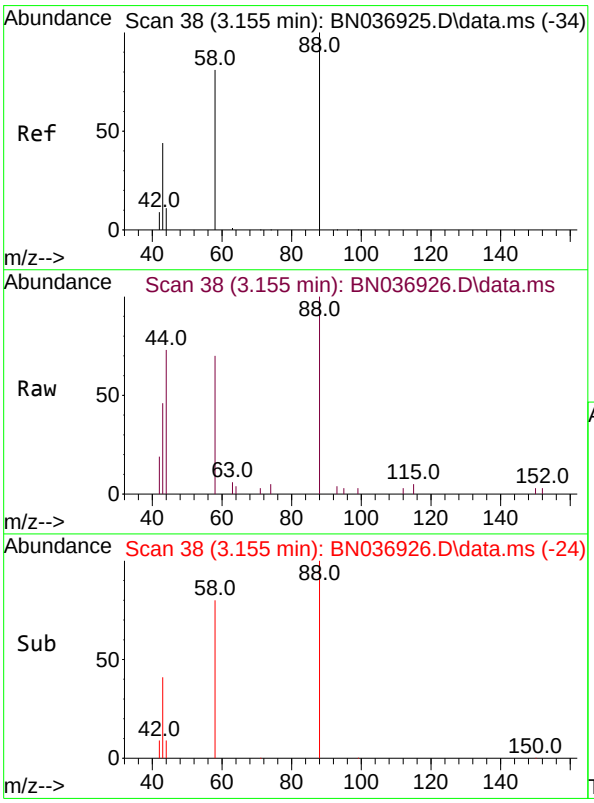
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.633 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:152 Resp: 2230

Ion	Ratio	Lower	Upper
152	100		
150	151.3	121.1	181.7
115	66.0	51.8	77.6

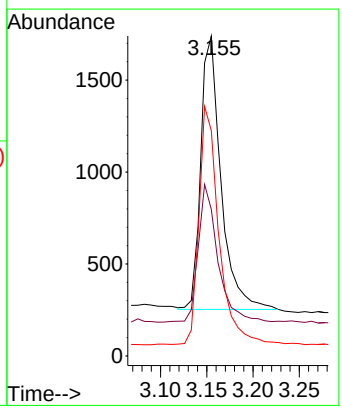


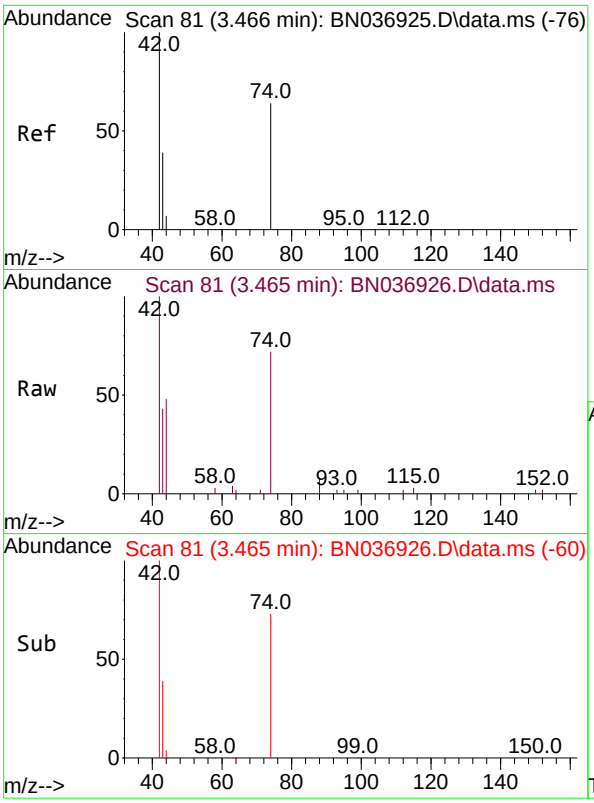


#2
1,4-Dioxane
Concen: 0.801 ng
RT: 3.155 min Scan# 38
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

Tgt Ion: 88 Resp: 2257

Ion	Ratio	Lower	Upper
88	100		
43	49.0	37.9	56.9
58	85.8	65.8	98.6



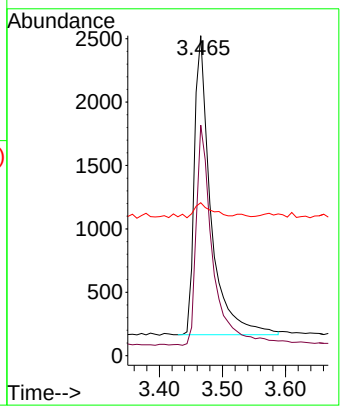


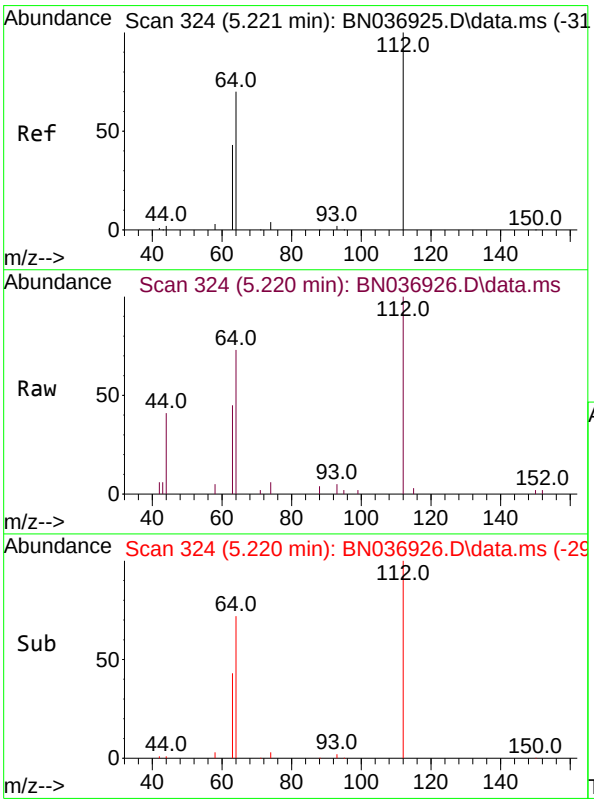
#3
n-Nitrosodimethylamine
Concen: 0.785 ng
RT: 3.465 min Scan# 8
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion: 42 Resp: 4269

Ion	Ratio	Lower	Upper
42	100		
74	72.8	59.9	89.9
44	5.2	7.5	11.3#

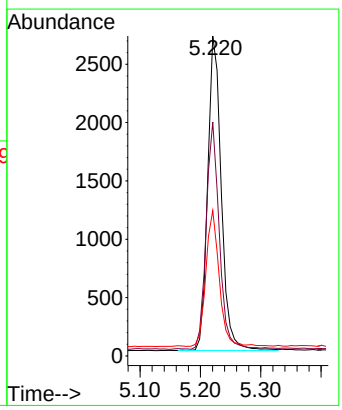


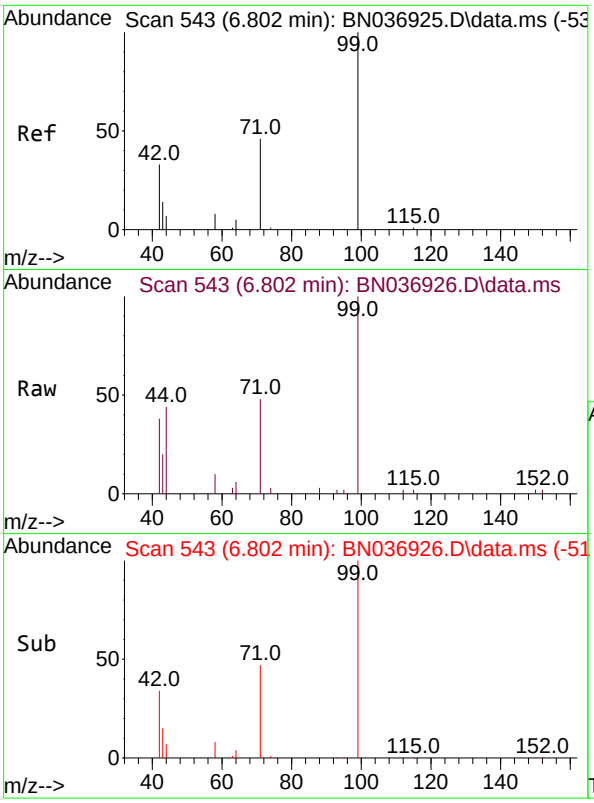


#4
2-Fluorophenol
Concen: 0.733 ng
RT: 5.220 min Scan# 324
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

Tgt Ion:112 Resp: 4217

Ion	Ratio	Lower	Upper
112	100		
64	69.9	55.7	83.5
63	42.7	33.9	50.9



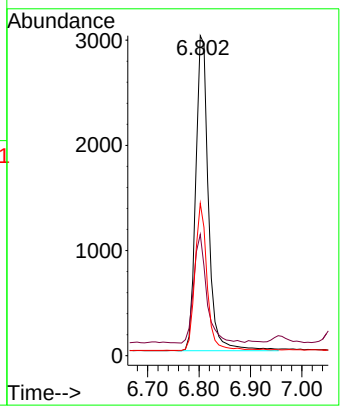


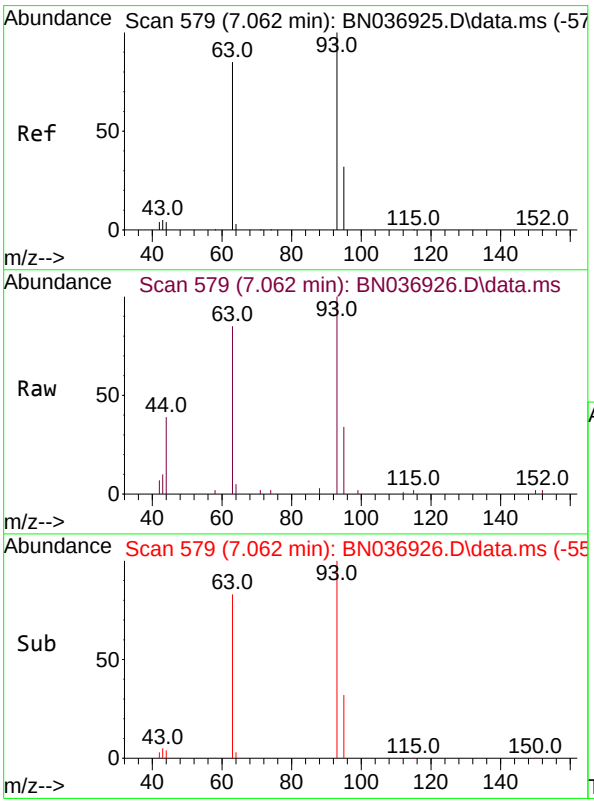
#5
Phenol-d6
Concen: 0.732 ng
RT: 6.802 min Scan# 54
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion: 99 Resp: 5133

Ion	Ratio	Lower	Upper
99	100		
42	35.2	29.6	44.4
71	44.7	36.0	54.0

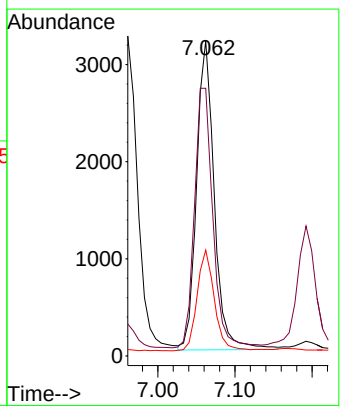


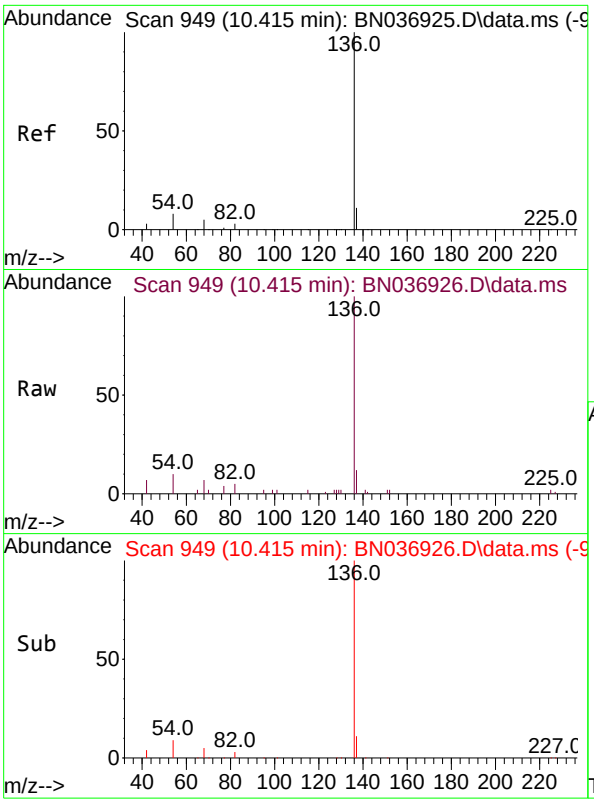


#6
bis(2-Chloroethyl)ether
Concen: 0.780 ng
RT: 7.062 min Scan# 579
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

Tgt Ion: 93 Resp: 5078

Ion	Ratio	Lower	Upper
93	100		
63	87.5	69.0	103.6
95	31.9	25.4	38.0



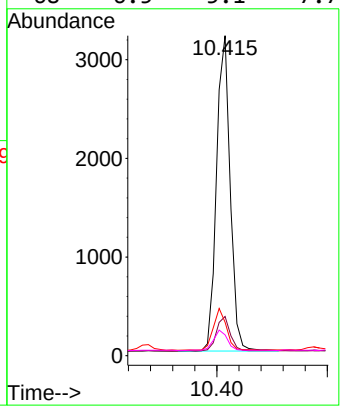


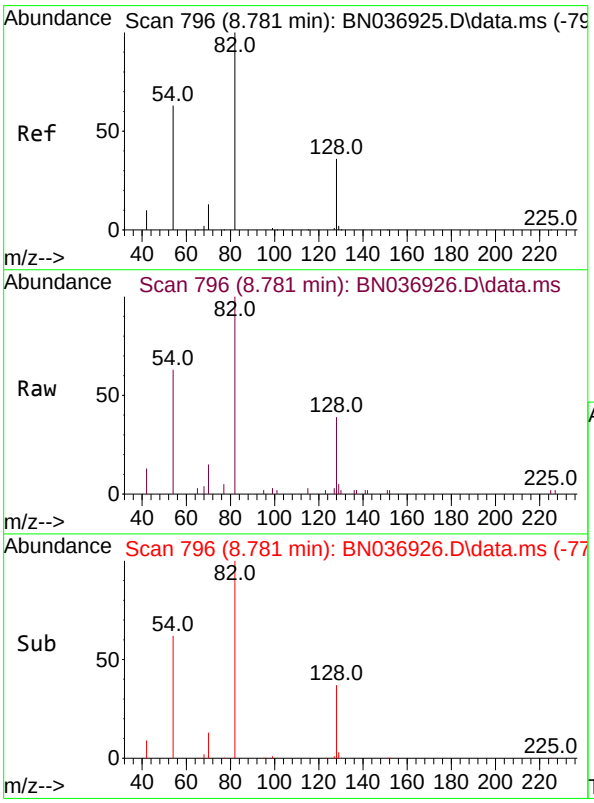
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.415 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:136 Resp: 5489

Ion	Ratio	Lower	Upper
136	100		
137	12.2	9.7	14.5
54	10.5	8.0	12.0
68	6.5	5.1	7.7

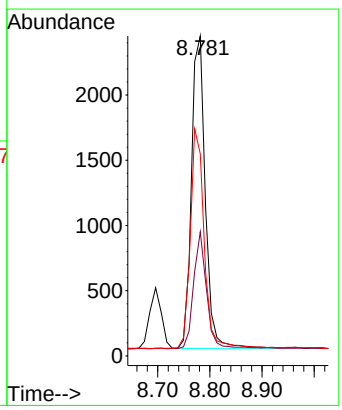


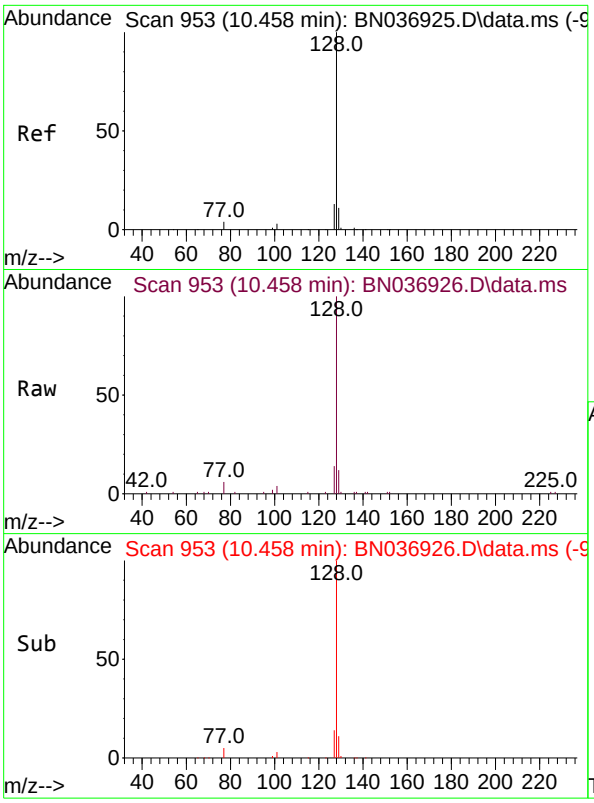


#8
Nitrobenzene-d5
Concen: 0.777 ng
RT: 8.781 min Scan# 796
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

Tgt Ion: 82 Resp: 4432

Ion	Ratio	Lower	Upper
82	100		
128	38.8	30.7	46.1
54	63.2	52.1	78.1



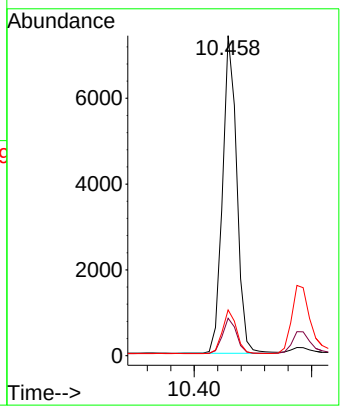


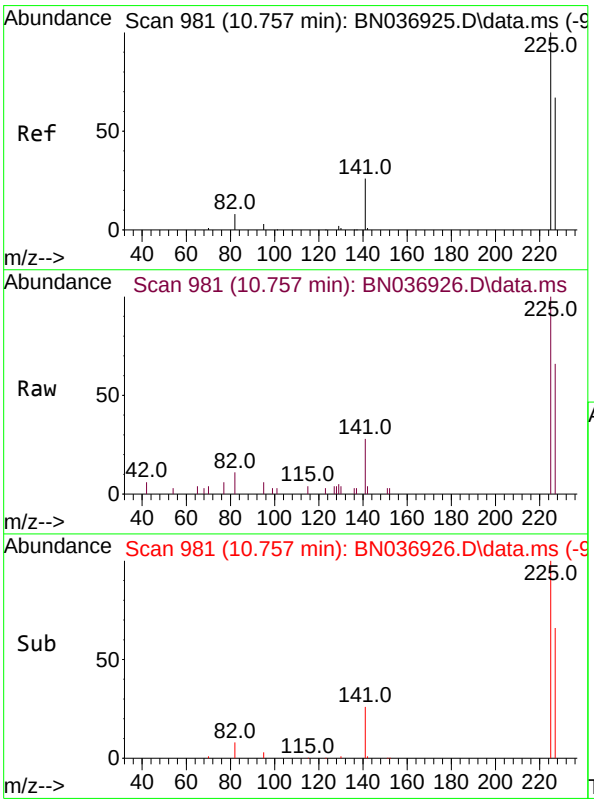
#9
Naphthalene
Concen: 0.778 ng
RT: 10.458 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:128 Resp: 12423

Ion	Ratio	Lower	Upper
128	100		
129	11.7	9.8	14.6
127	14.3	11.4	17.2

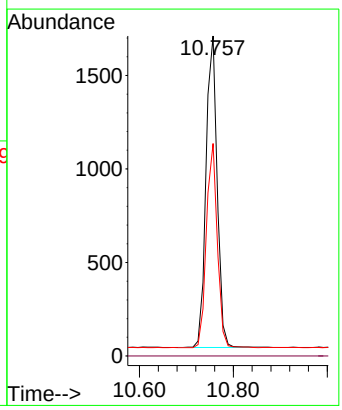


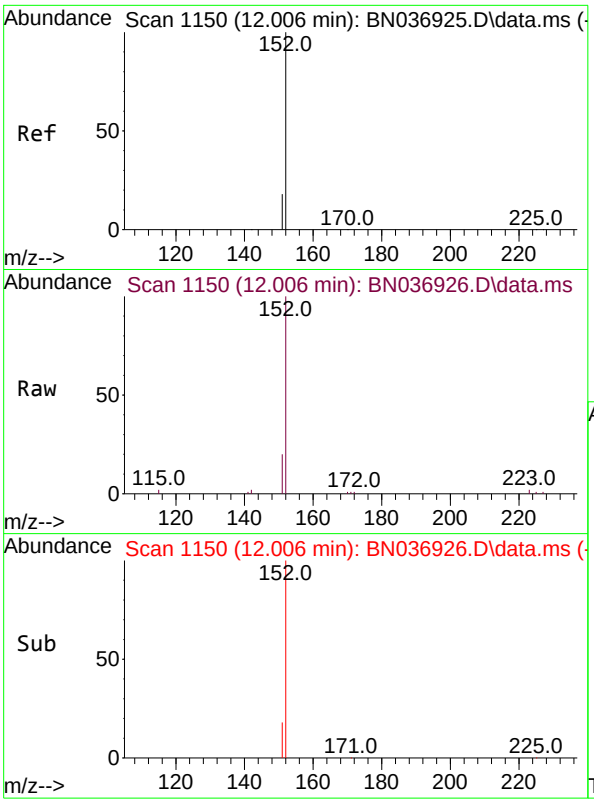


#10
Hexachlorobutadiene
Concen: 0.786 ng
RT: 10.757 min Scan# 981
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

Tgt Ion:225 Resp: 2738

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.0	52.2	78.4



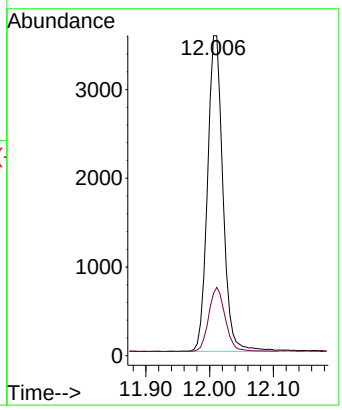


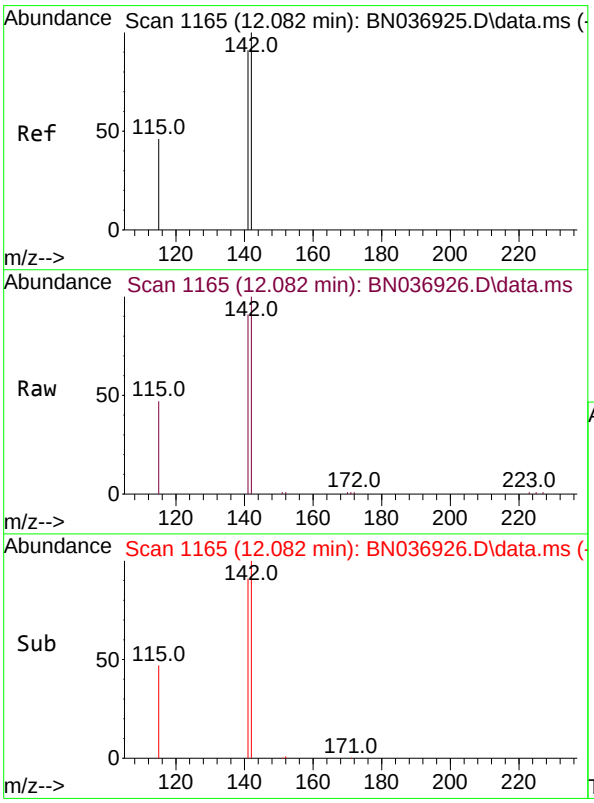
#11
2-Methylnaphthalene-d10
Concen: 0.784 ng
RT: 12.006 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:152 Resp: 5965

Ion	Ratio	Lower	Upper
152	100		
151	21.8	16.9	25.3

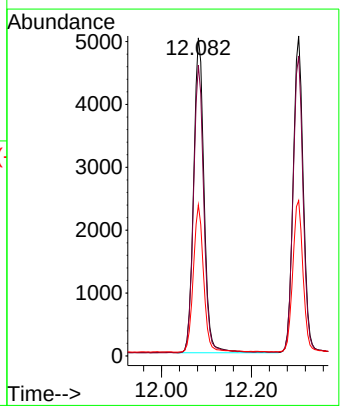


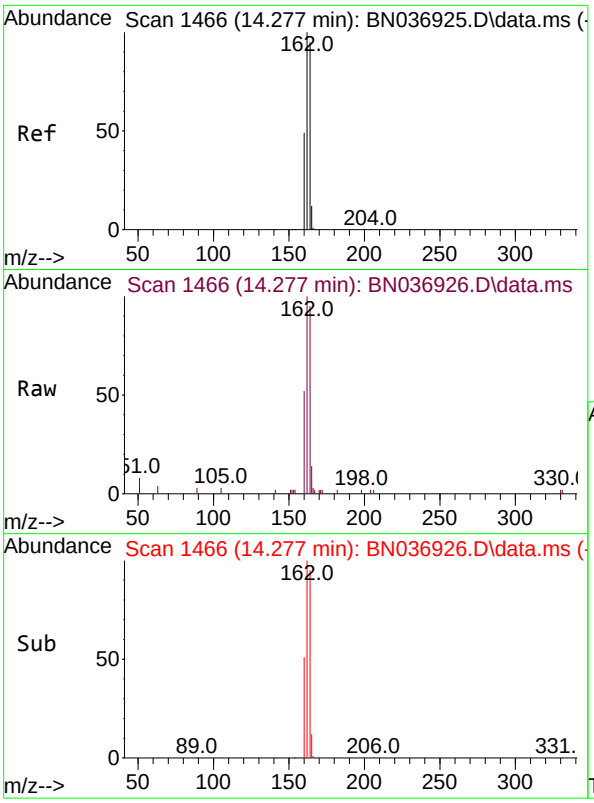


#12
2-Methylnaphthalene
Concen: 0.789 ng
RT: 12.082 min Scan# 1165
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

Tgt Ion:142 Resp: 8066

Ion	Ratio	Lower	Upper
142	100		
141	91.4	72.8	109.2
115	47.5	38.2	57.4



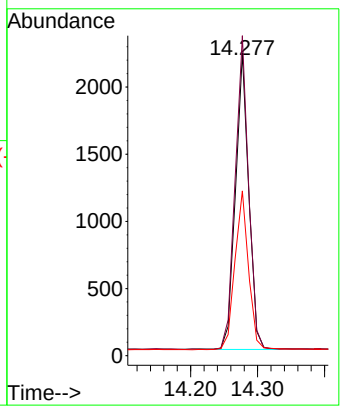


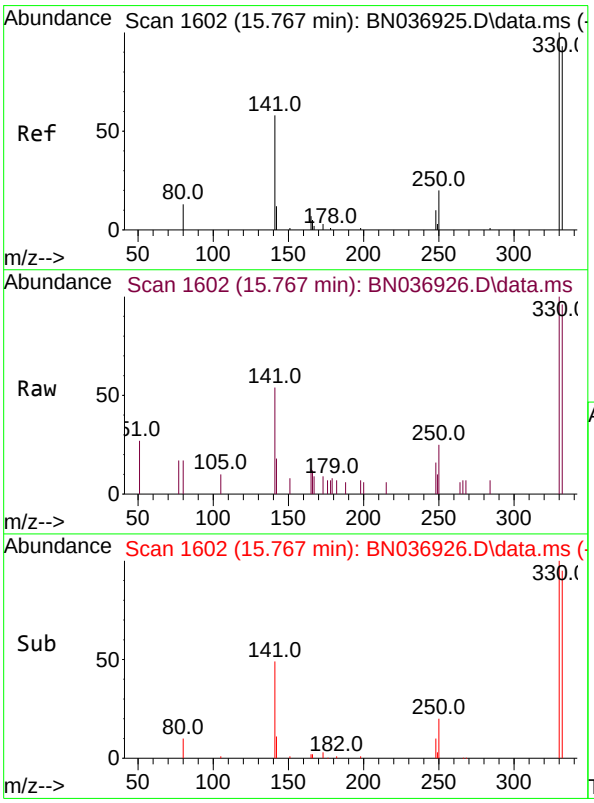
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.277 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:164 Resp: 3040

Ion	Ratio	Lower	Upper
164	100		
162	105.7	83.8	125.8
160	54.5	42.0	63.0

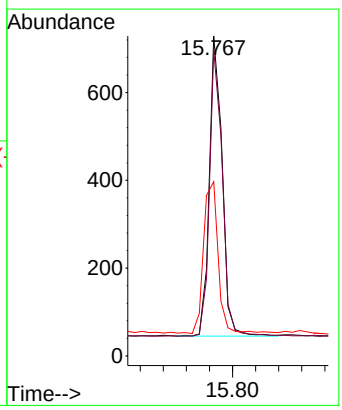


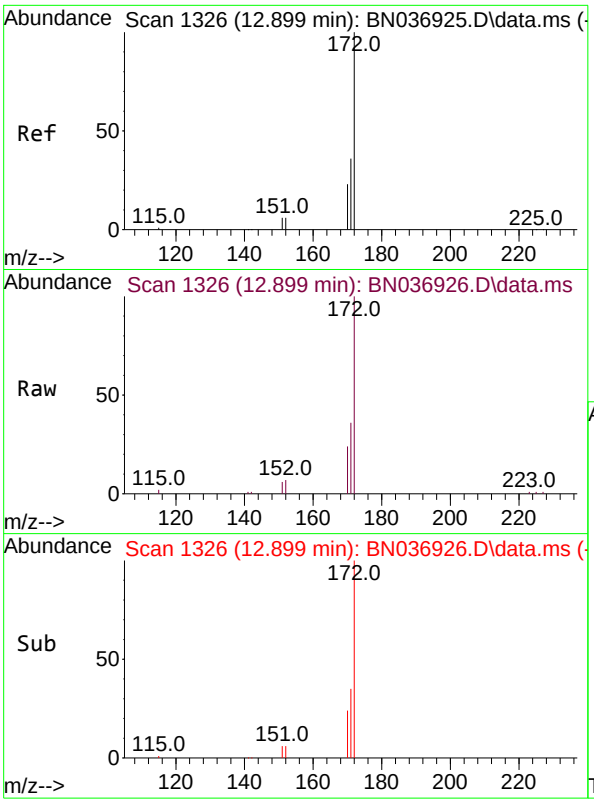


#14
2,4,6-Tribromophenol
Concen: 0.796 ng
RT: 15.767 min Scan# 1602
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

Tgt Ion:330 Resp: 1061

Ion	Ratio	Lower	Upper
330	100		
332	95.2	76.3	114.5
141	56.7	45.4	68.2



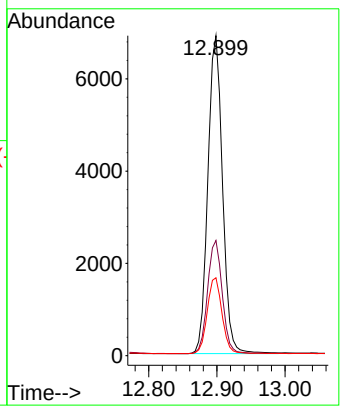


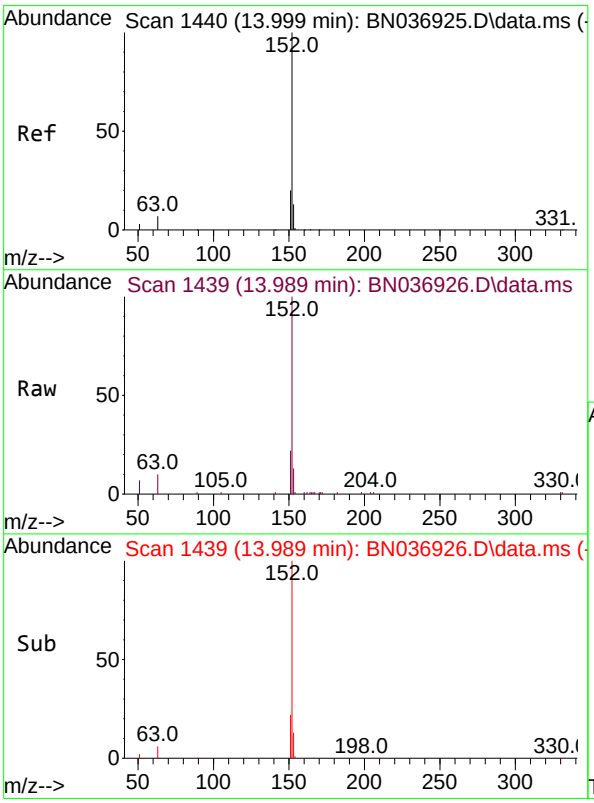
#15
2-Fluorobiphenyl
Concen: 0.699 ng
RT: 12.899 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:172 Resp: 10275

Ion	Ratio	Lower	Upper
172	100		
171	36.0	29.4	44.0
170	24.3	19.4	29.0

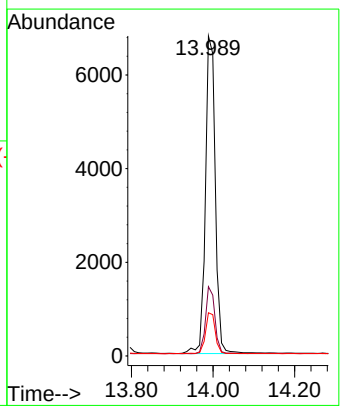


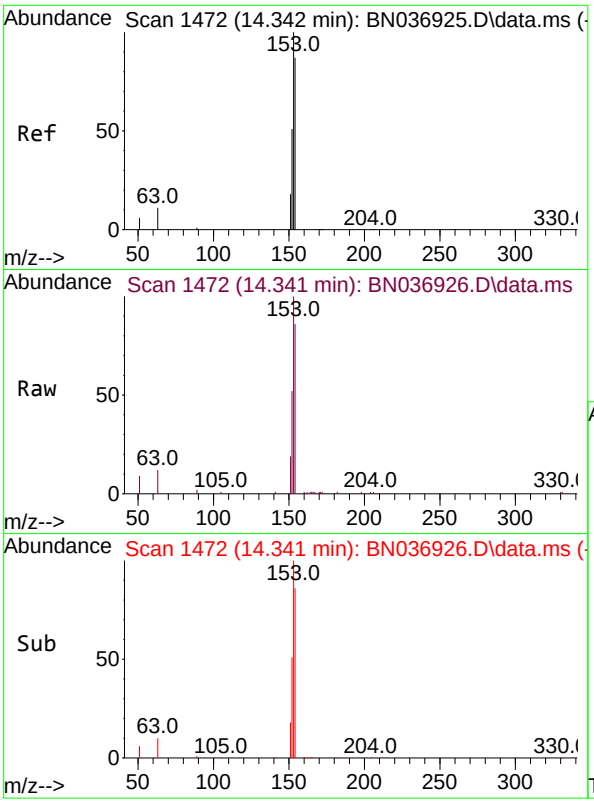


#16
Acenaphthylene
Concen: 0.778 ng
RT: 13.989 min Scan# 1439
Delta R.T. -0.011 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

Tgt Ion:152 Resp: 11455

Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.0	24.0
153	12.9	10.2	15.2



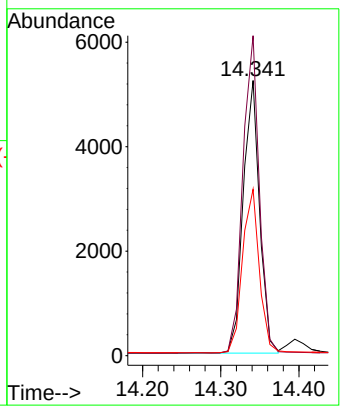


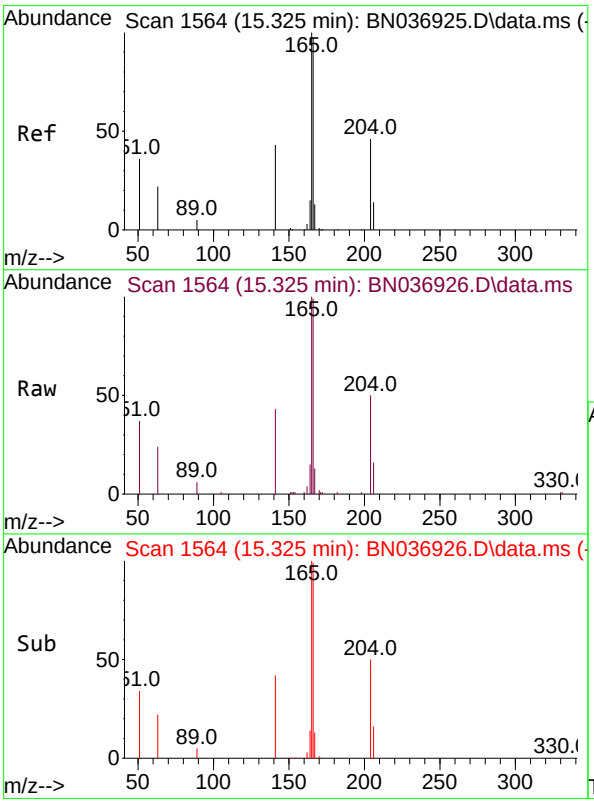
#17
Acenaphthene
Concen: 0.780 ng
RT: 14.341 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:154 Resp: 7590

Ion	Ratio	Lower	Upper
154	100		
153	117.5	93.4	140.2
152	62.1	49.5	74.3

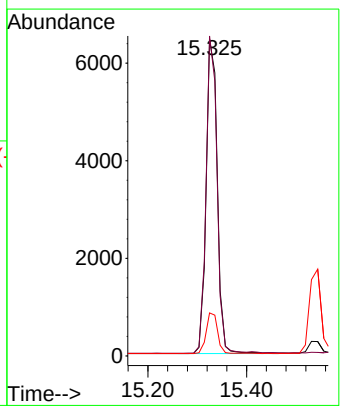


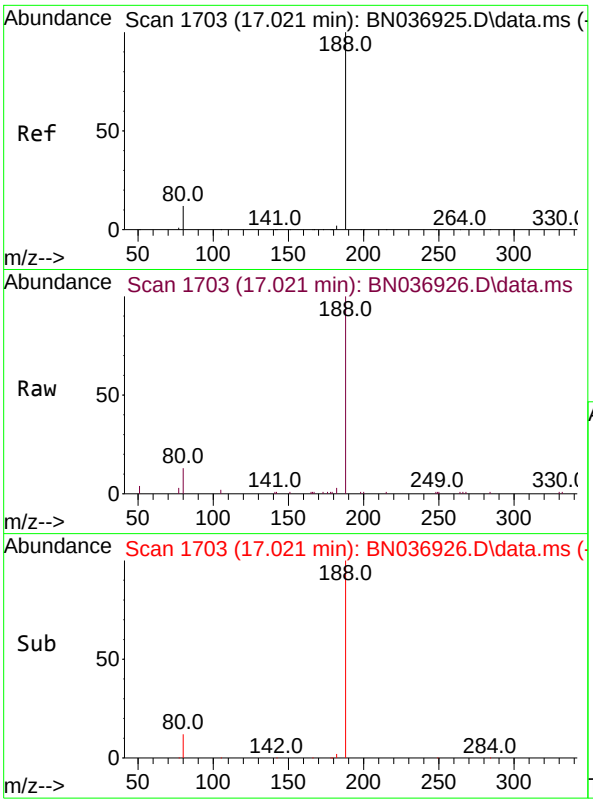


#18
Fluorene
Concen: 0.795 ng
RT: 15.325 min Scan# 1564
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

Tgt Ion:166 Resp: 10080

Ion	Ratio	Lower	Upper
166	100		
165	99.0	80.8	121.2
167	13.4	10.8	16.2



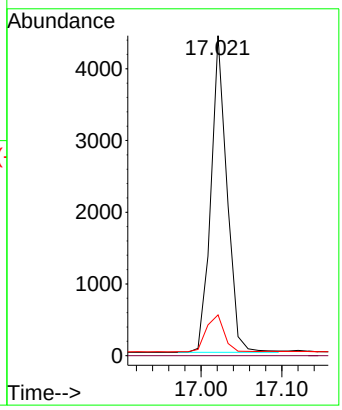


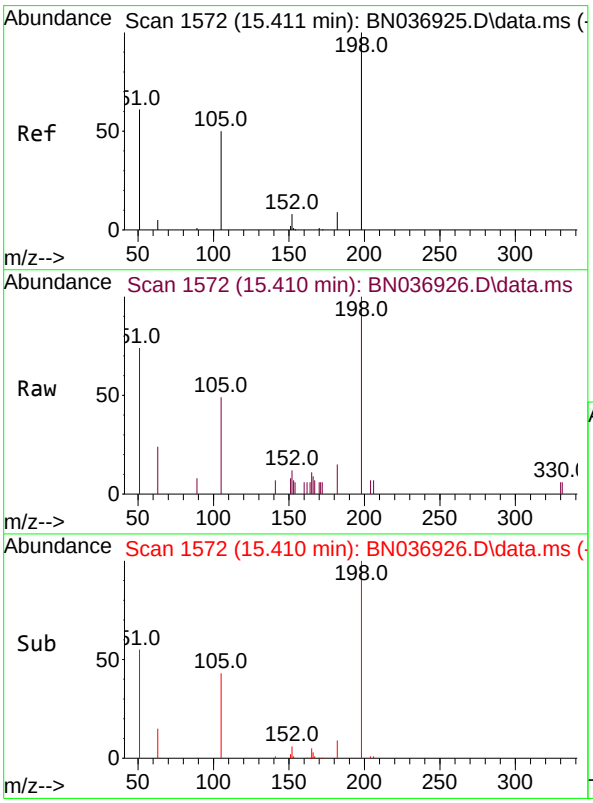
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.021 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:188 Resp: 6101

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.8	10.7	16.1

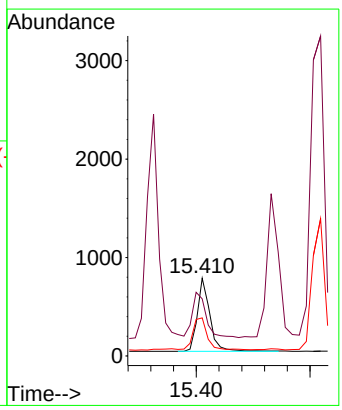


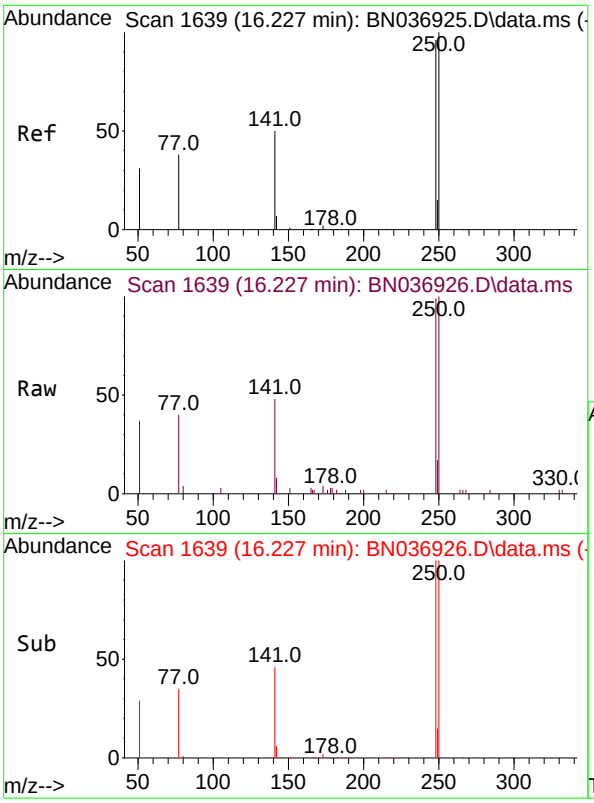


#20
4,6-Dinitro-2-methylphenol
Concen: 0.763 ng
RT: 15.410 min Scan# 1572
Delta R.T. -0.001 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

Tgt Ion:198 Resp: 1166

Ion	Ratio	Lower	Upper
198	100		
51	73.5	97.9	146.9#
105	48.9	50.0	75.0#



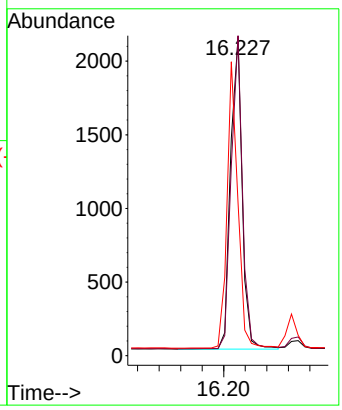


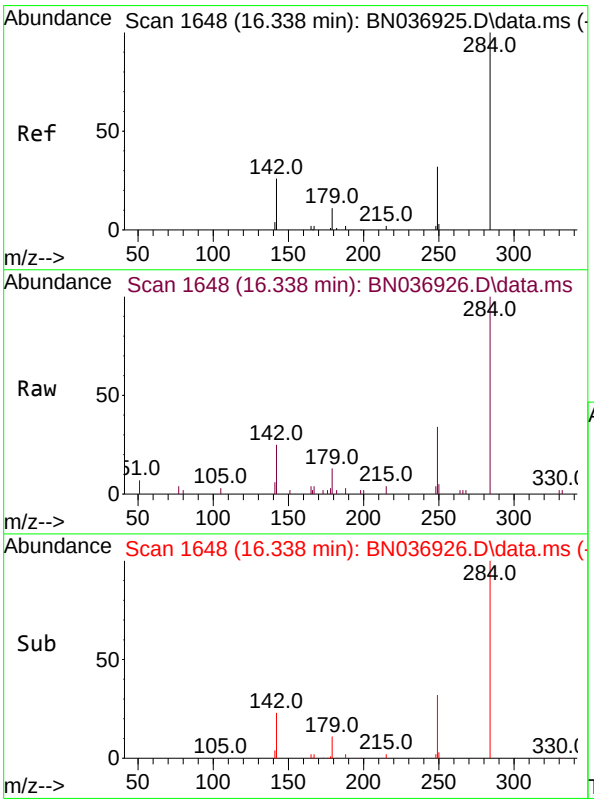
#21
4-Bromophenyl-phenylether
Concen: 0.780 ng
RT: 16.227 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:248 Resp: 3169

Ion	Ratio	Lower	Upper
248	100		
250	100.6	83.7	125.5
141	48.1	43.8	65.8

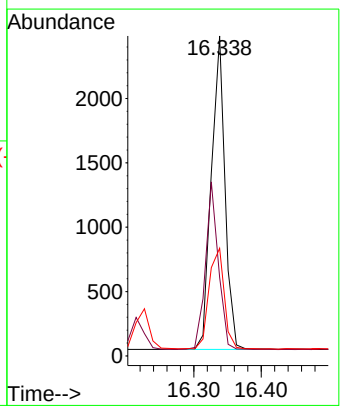


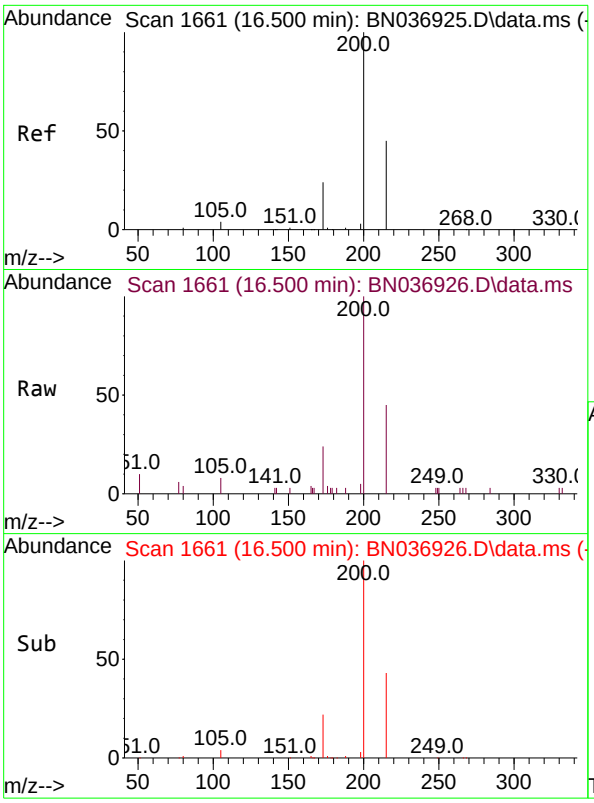


#22
Hexachlorobenzene
Concen: 0.762 ng
RT: 16.338 min Scan# 1648
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

Tgt Ion:284 Resp: 3420

Ion	Ratio	Lower	Upper
284	100		
142	50.9	40.0	60.0
249	36.1	28.2	42.2



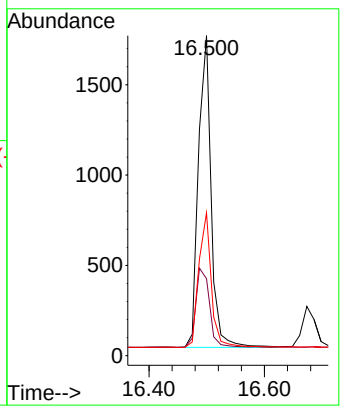


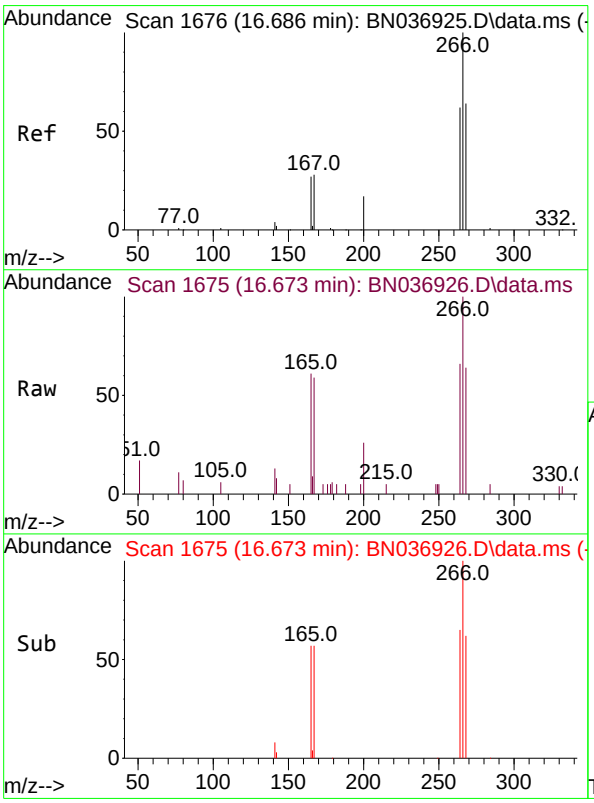
#23
Atrazine
Concen: 0.825 ng
RT: 16.500 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:200 Resp: 2644

Ion	Ratio	Lower	Upper
200	100		
173	24.0	22.4	33.6
215	44.6	38.6	57.8

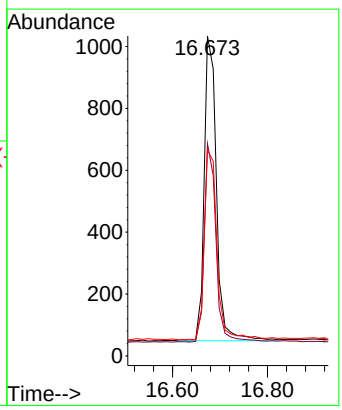


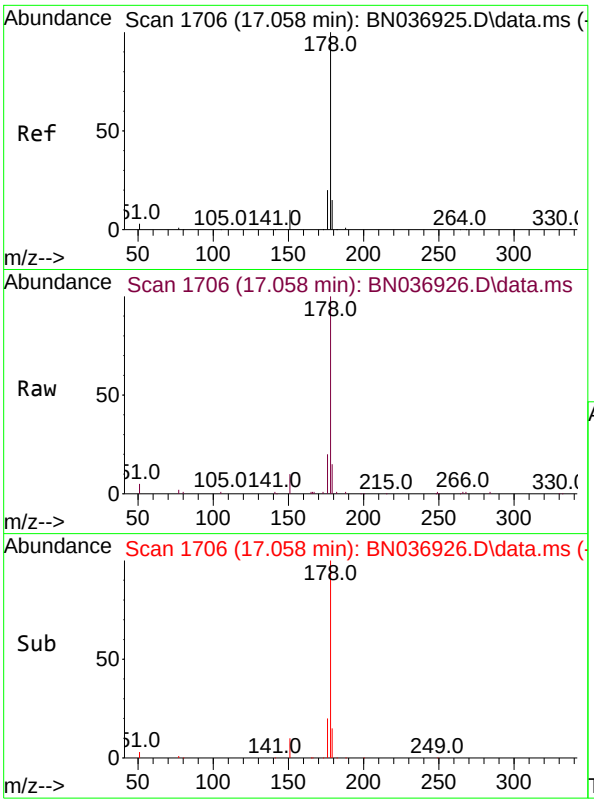


#24
Pentachlorophenol
Concen: 0.758 ng
RT: 16.673 min Scan# 1675
Delta R.T. -0.013 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

Tgt Ion:266 Resp: 1767

Ion	Ratio	Lower	Upper
266	100		
264	62.5	49.9	74.9
268	64.1	52.2	78.4



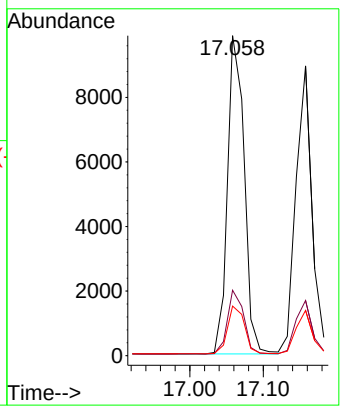


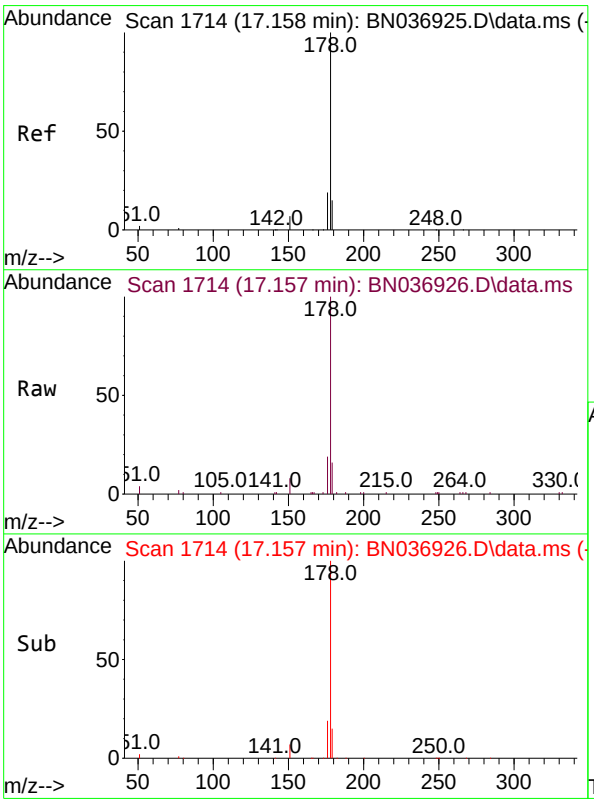
#25
Phenanthrene
Concen: 0.778 ng
RT: 17.058 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:178 Resp: 15621

Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.7	23.5
179	15.2	12.4	18.6

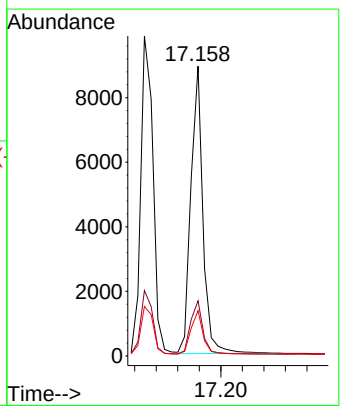


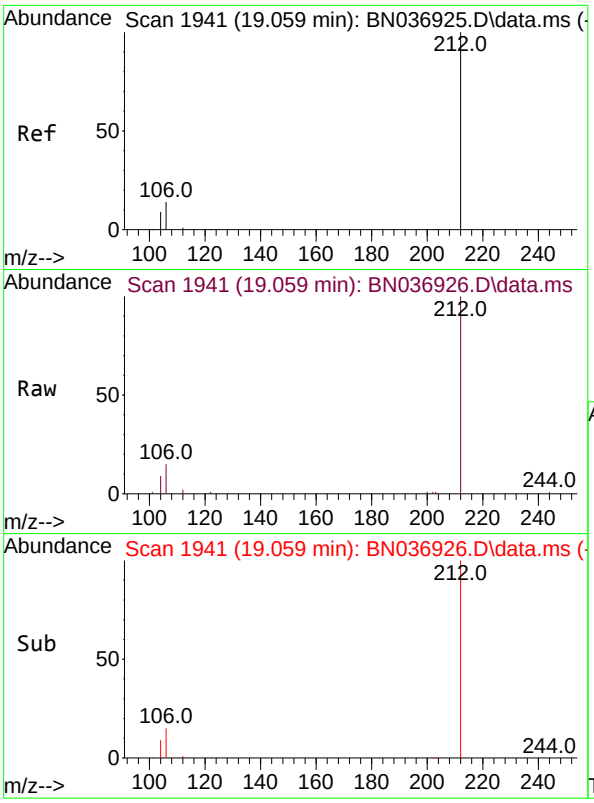


#26
Anthracene
Concen: 0.774 ng
RT: 17.157 min Scan# 1714
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

Tgt Ion:178 Resp: 13888

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.3	22.9
179	15.1	12.1	18.1



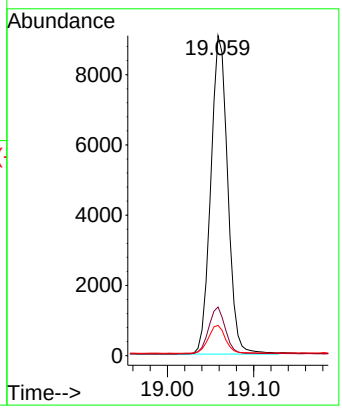


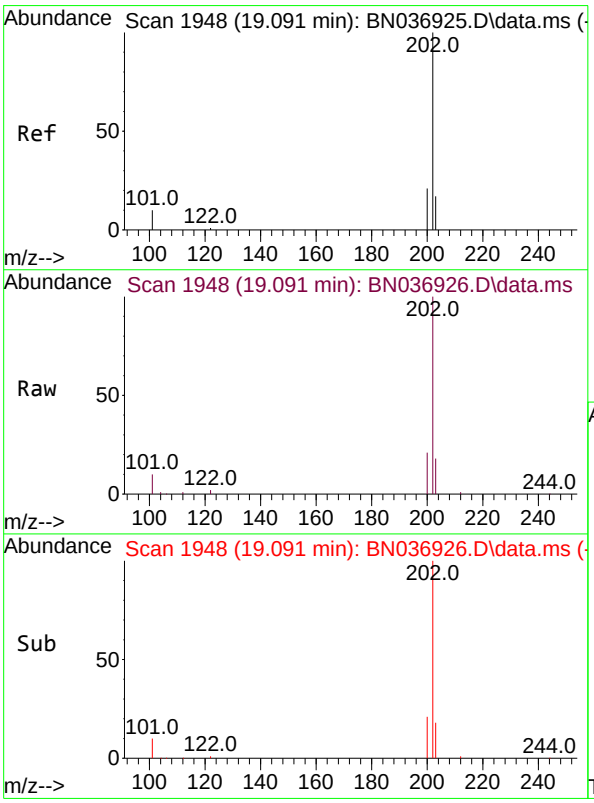
#27
Fluoranthene-d10
Concen: 0.794 ng
RT: 19.059 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:212 Resp: 12399

Ion	Ratio	Lower	Upper
212	100		
106	14.4	11.6	17.4
104	9.0	7.0	10.4

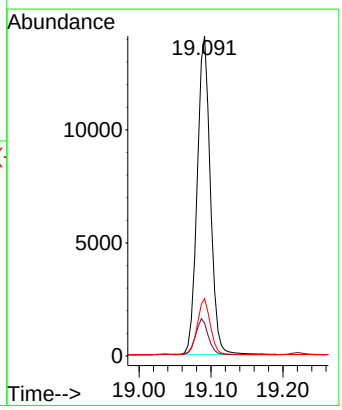


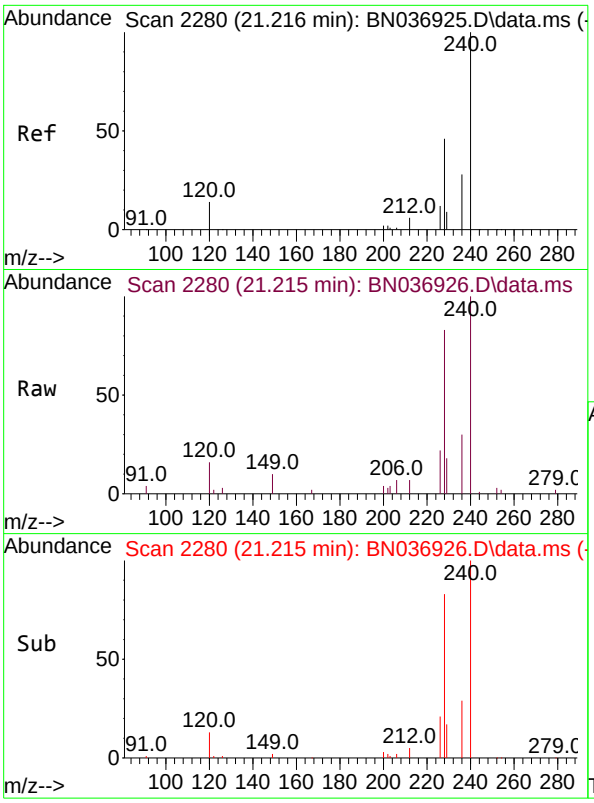


#28
Fluoranthene
Concen: 0.808 ng
RT: 19.091 min Scan# 1948
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

Tgt Ion:202 Resp: 17952

Ion	Ratio	Lower	Upper
202	100		
101	11.1	8.5	12.7
203	17.1	13.7	20.5



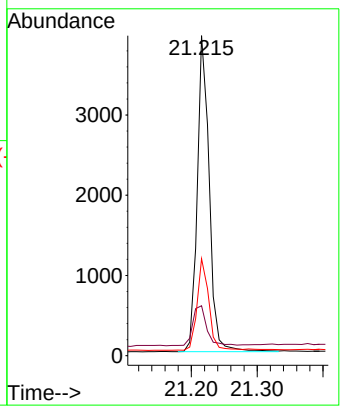


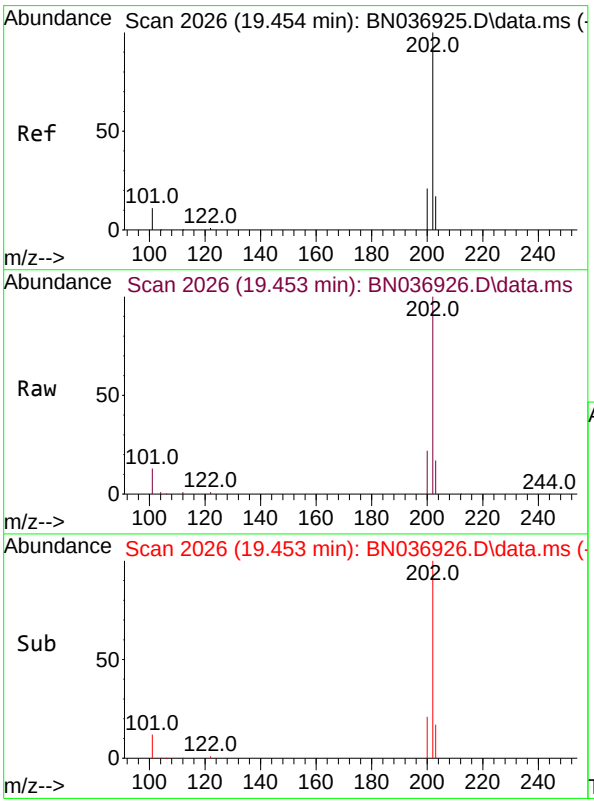
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.215 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:240 Resp: 4993

Ion	Ratio	Lower	Upper
240	100		
120	15.6	14.1	21.1
236	30.3	23.8	35.8

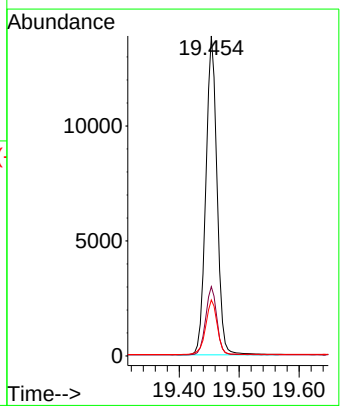


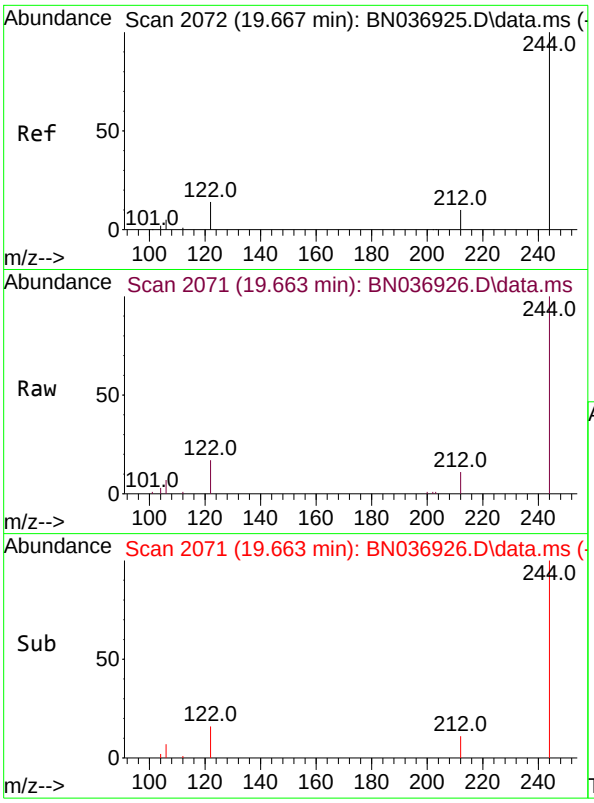


#30
Pyrene
Concen: 0.741 ng
RT: 19.453 min Scan# 2026
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

Tgt Ion:202 Resp: 17990

Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.0	25.6
203	17.7	14.0	21.0



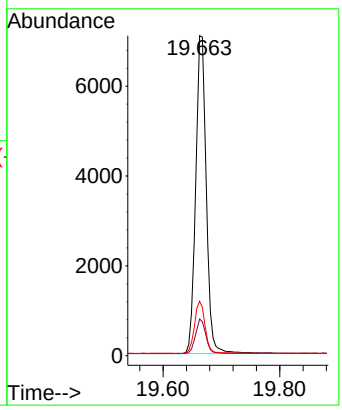


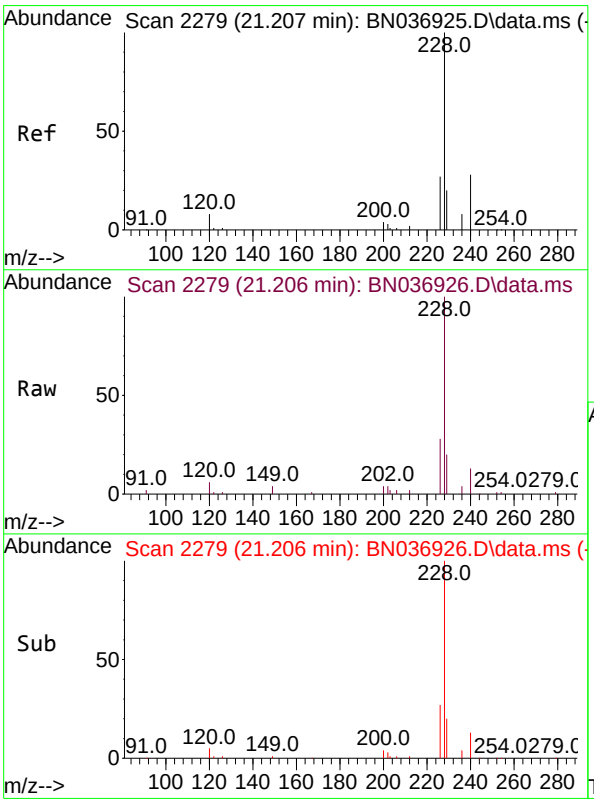
#31
Terphenyl-d14
Concen: 0.750 ng
RT: 19.663 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:244 Resp: 8916

Ion	Ratio	Lower	Upper
244	100		
212	11.4	9.6	14.4
122	17.0	12.7	19.1

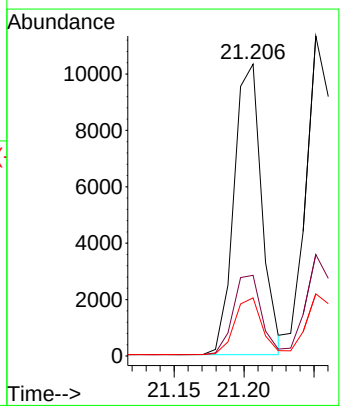


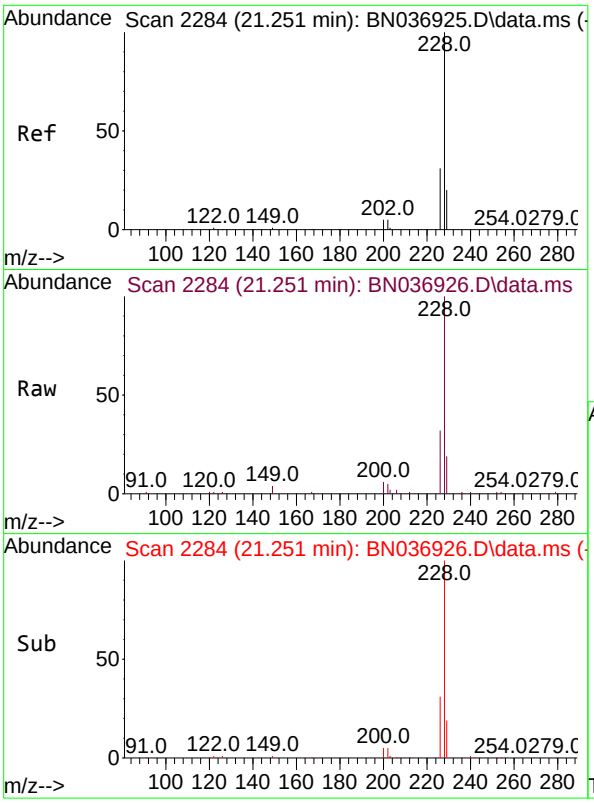


#32
Benzo(a)anthracene
Concen: 0.780 ng
RT: 21.206 min Scan# 2279
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

Tgt Ion:228 Resp: 14201

Ion	Ratio	Lower	Upper
228	100		
226	27.7	22.2	33.4
229	19.9	16.4	24.6



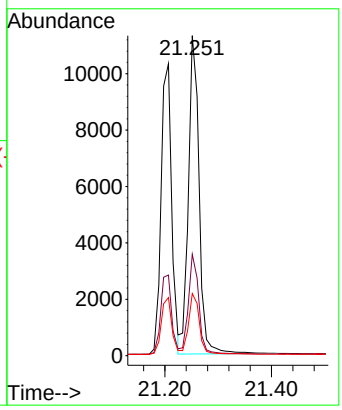


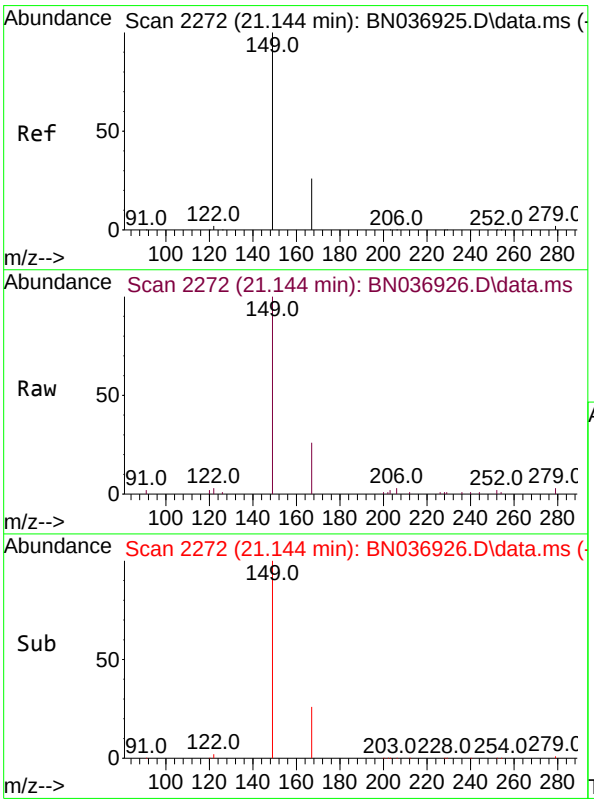
#33
Chrysene
Concen: 0.792 ng
RT: 21.251 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:228 Resp: 15802

Ion	Ratio	Lower	Upper
228	100		
226	31.7	25.5	38.3
229	19.4	16.5	24.7

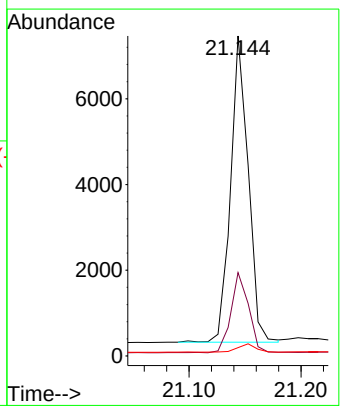


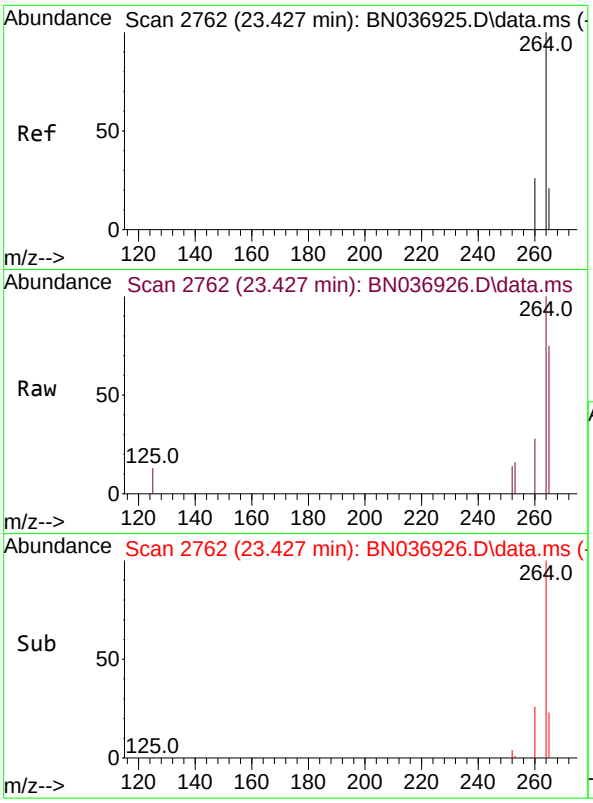


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.753 ng
RT: 21.144 min Scan# 2272
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

Tgt Ion:149 Resp: 7831

Ion	Ratio	Lower	Upper
149	100		
167	26.1	21.0	31.6
279	2.7	2.7	4.1#



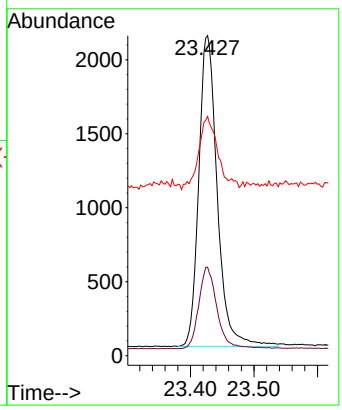


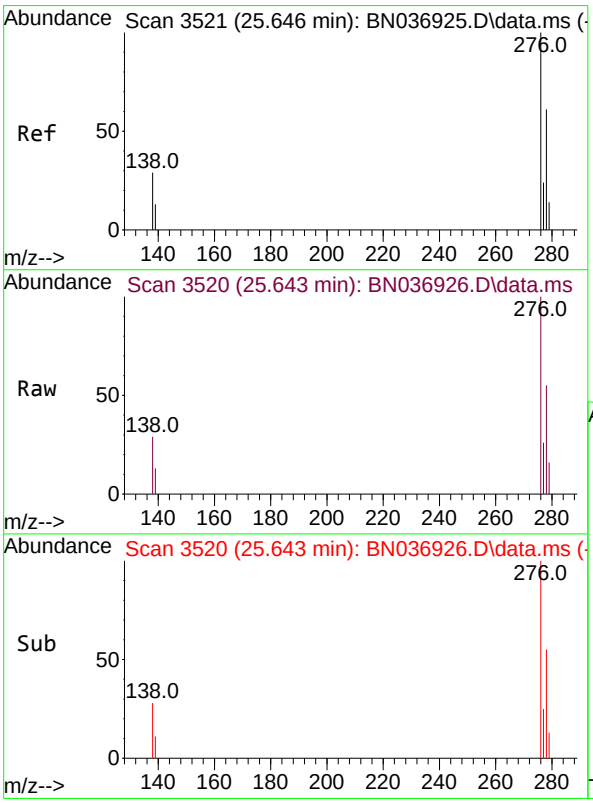
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.427 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:264 Resp: 4243

Ion	Ratio	Lower	Upper
264	100		
260	27.6	22.2	33.2
265	74.8	65.8	98.6

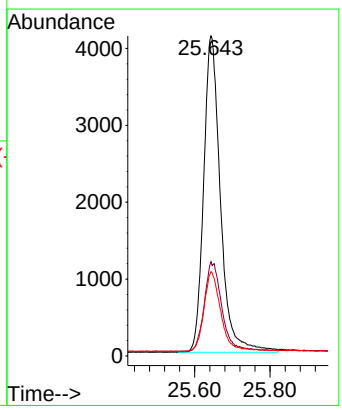


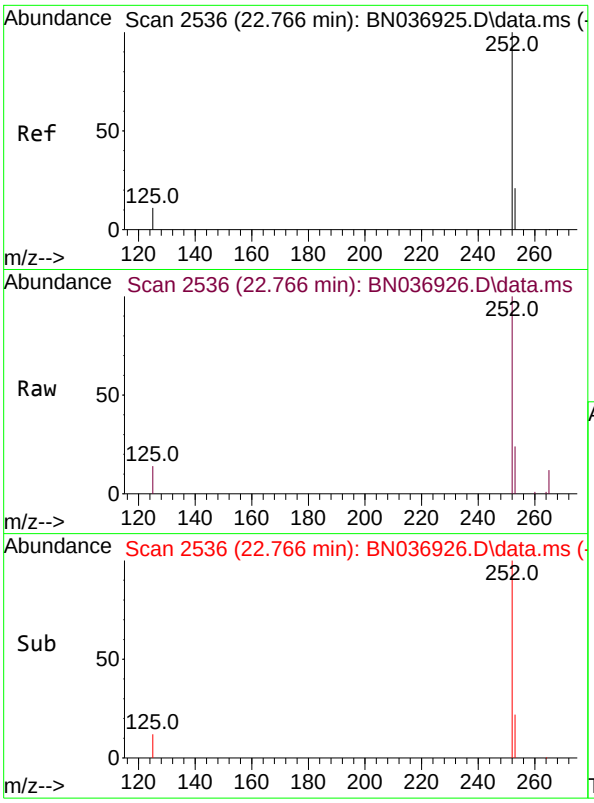


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.734 ng
RT: 25.643 min Scan# 3520
Delta R.T. -0.003 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

Tgt Ion:276 Resp: 12758

Ion	Ratio	Lower	Upper
276	100		
138	28.8	23.0	34.6
277	25.0	20.0	30.0



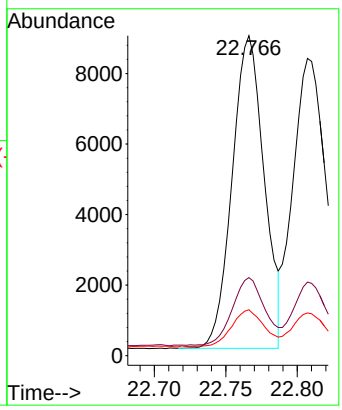


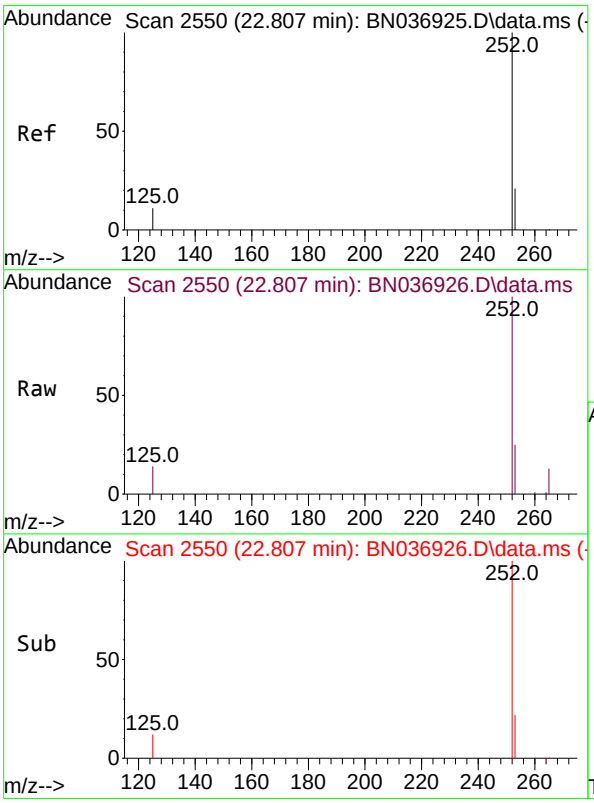
#37
Benzo(b)fluoranthene
Concen: 0.786 ng
RT: 22.766 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:252 Resp: 13818

Ion	Ratio	Lower	Upper
252	100		
253	24.4	22.1	33.1
125	14.3	14.2	21.2

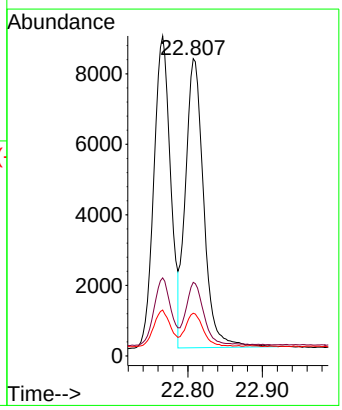


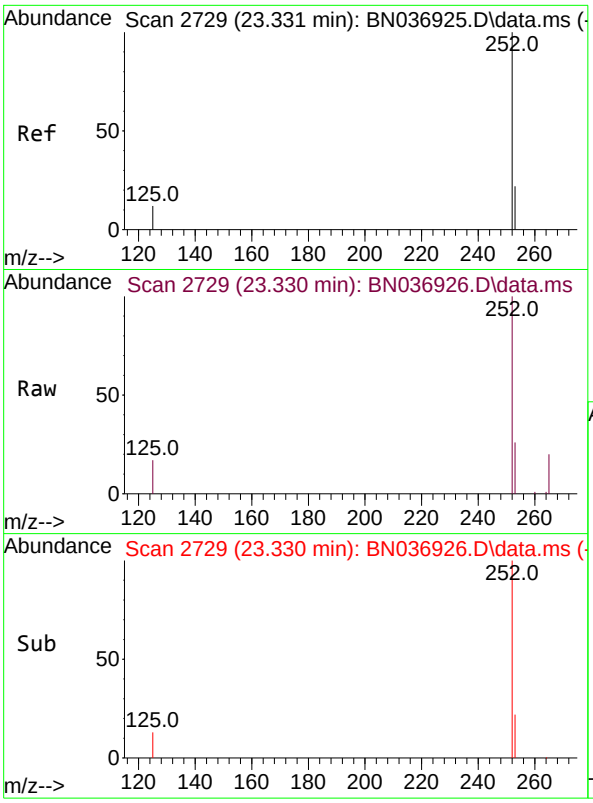


#38
Benzo(k)fluoranthene
Concen: 0.783 ng
RT: 22.807 min Scan# 2550
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

Tgt Ion:252 Resp: 13927

Ion	Ratio	Lower	Upper
252	100		
253	24.8	22.8	34.2
125	14.4	14.2	21.2



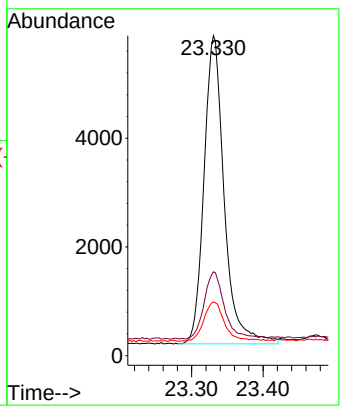


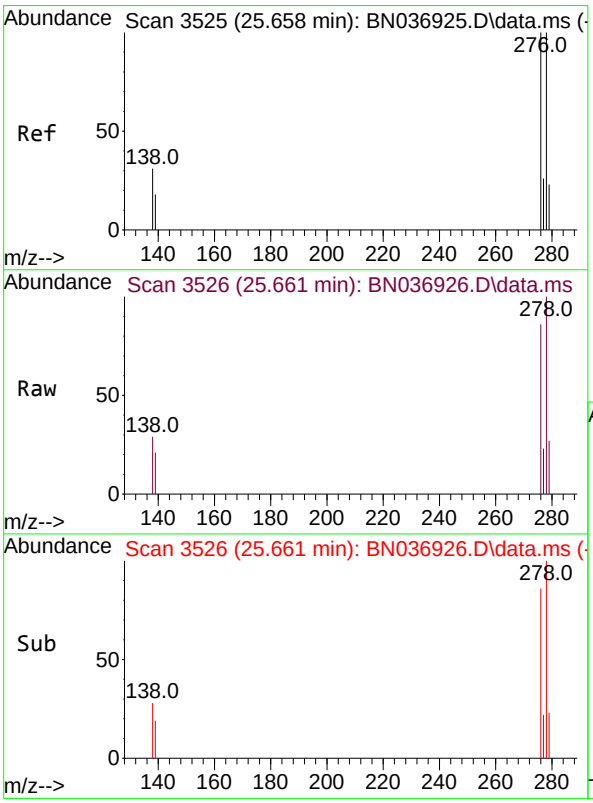
#39
Benzo(a)pyrene
Concen: 0.770 ng
RT: 23.330 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:252 Resp: 11160

Ion	Ratio	Lower	Upper
252	100		
253	26.2	25.9	38.9
125	16.8	17.4	26.0#

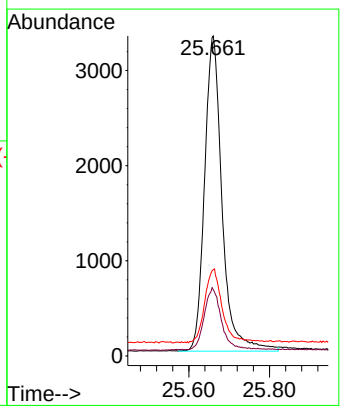


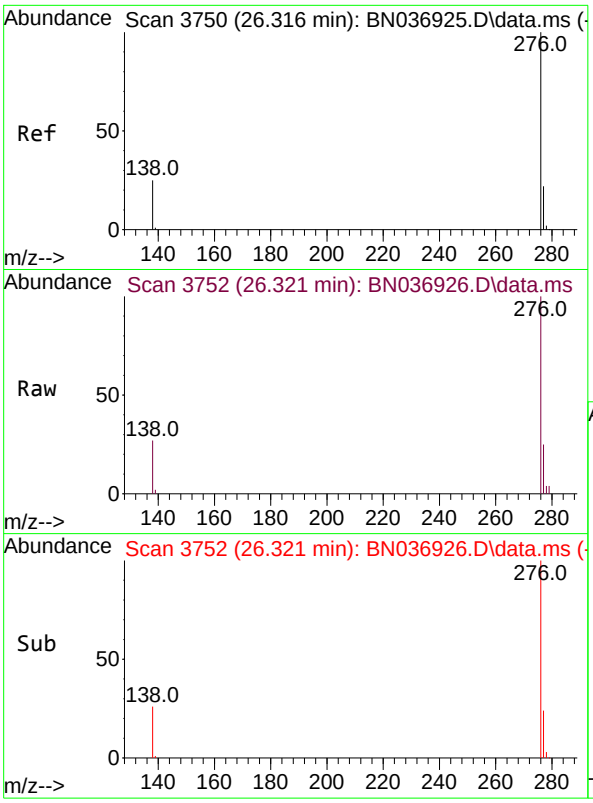


#40
Dibenzo(a,h)anthracene
Concen: 0.730 ng
RT: 25.661 min Scan# 3526
Delta R.T. 0.003 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

Tgt Ion:278 Resp: 9982

Ion	Ratio	Lower	Upper
278	100		
139	20.7	17.4	26.2
279	27.0	24.9	37.3



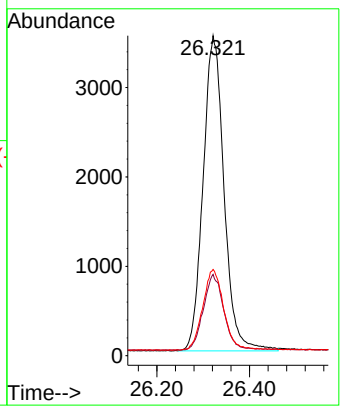


#41
Benzo(g,h,i)perylene
Concen: 0.724 ng
RT: 26.321 min Scan# 3
Delta R.T. 0.006 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:276 Resp: 11072

Ion	Ratio	Lower	Upper
276	100		
277	25.4	20.2	30.2
138	27.0	21.9	32.9



Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042825\
Data File : BN036927.D
Acq On : 28 Apr 2025 14:00
Operator : RC/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Quant Time: Apr 28 15:13:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:11:09 2025
Response via : Initial Calibration

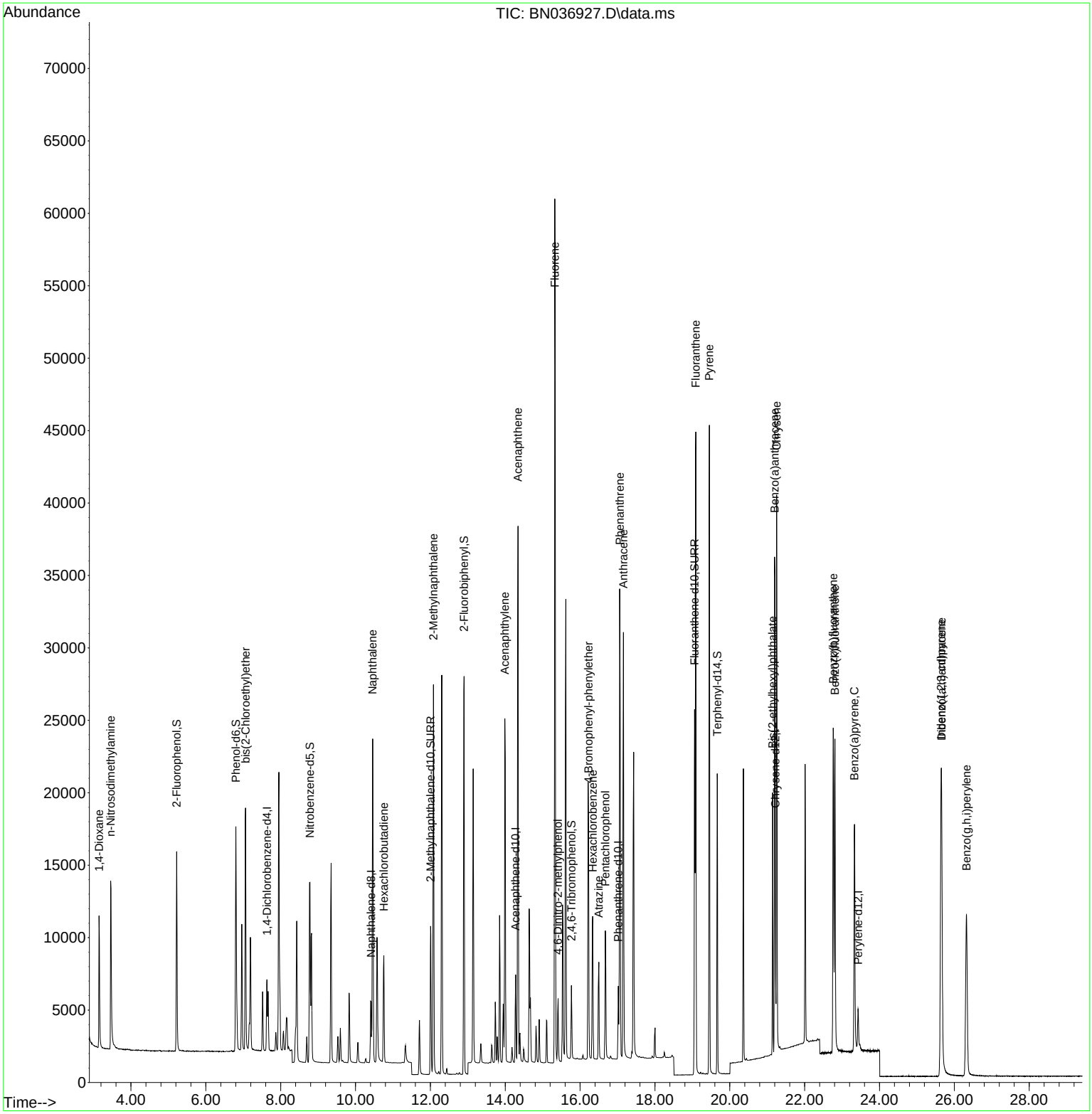
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.633	152	2241	0.400	ng		0.00
7) Naphthalene-d8	10.415	136	5594	0.400	ng		0.00
13) Acenaphthene-d10	14.277	164	3185	0.400	ng		0.00
19) Phenanthrene-d10	17.021	188	6118	0.400	ng		0.00
29) Chrysene-d12	21.215	240	4605	0.400	ng		0.00
35) Perylene-d12	23.427	264	3734	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.220	112	9327	1.613	ng		0.00
5) Phenol-d6	6.802	99	11600	1.647	ng		0.00
8) Nitrobenzene-d5	8.781	82	9972	1.716	ng		0.00
11) 2-Methylnaphthalene-d10	12.006	152	13343	1.720	ng		0.00
14) 2,4,6-Tribromophenol	15.767	330	2388	1.711	ng		0.00
15) 2-Fluorobiphenyl	12.898	172	25773	1.673	ng		0.00
27) Fluoranthene-d10	19.059	212	26603	1.699	ng		0.00
31) Terphenyl-d14	19.667	244	18514	1.689	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.148	88	4813	1.701	ng		96
3) n-Nitrosodimethylamine	3.458	42	9269	1.696	ng	#	98
6) bis(2-Chloroethyl)ether	7.062	93	11118	1.699	ng		99
9) Naphthalene	10.458	128	27421	1.684	ng		98
10) Hexachlorobutadiene	10.756	225	5873	1.655	ng	#	98
12) 2-Methylnaphthalene	12.082	142	17991	1.727	ng		99
16) Acenaphthylene	13.988	152	26335	1.708	ng		100
17) Acenaphthene	14.341	154	16981	1.665	ng		99
18) Fluorene	15.325	166	22781	1.715	ng		98
20) 4,6-Dinitro-2-methylph...	15.410	198	2759	1.800	ng	#	58
21) 4-Bromophenyl-phenylether	16.226	248	6907	1.695	ng		95
22) Hexachlorobenzene	16.338	284	7427	1.650	ng		99
23) Atrazine	16.500	200	5555	1.729	ng		93
24) Pentachlorophenol	16.673	266	3995	1.710	ng		98
25) Phenanthrene	17.058	178	33948	1.687	ng		99
26) Anthracene	17.157	178	31205	1.734	ng		100
28) Fluoranthene	19.091	202	38607	1.732	ng		99
30) Pyrene	19.453	202	38176	1.706	ng		100
32) Benzo(a)anthracene	21.197	228	29164	1.737	ng		98
33) Chrysene	21.251	228	31322	1.703	ng		98
34) Bis(2-ethylhexyl)phtha...	21.144	149	14810	1.544	ng		99
36) Indeno(1,2,3-cd)pyrene	25.643	276	25695	1.681	ng		99
37) Benzo(b)fluoranthene	22.763	252	26826	1.733	ng	#	91
38) Benzo(k)fluoranthene	22.807	252	27065	1.730	ng	#	90
39) Benzo(a)pyrene	23.330	252	21844	1.712	ng	#	85
40) Dibenzo(a,h)anthracene	25.658	278	20274	1.685	ng	#	92
41) Benzo(g,h,i)perylene	26.324	276	22323	1.659	ng		97

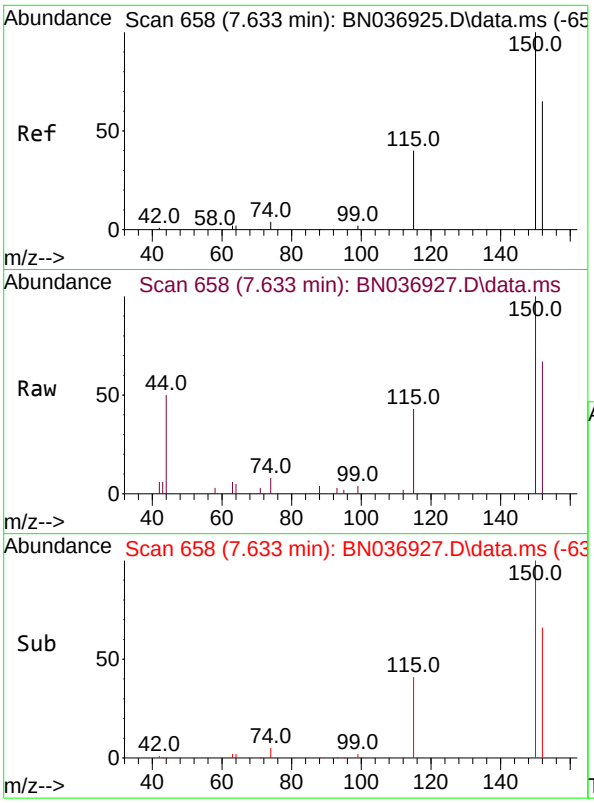
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042825\
Data File : BN036927.D
Acq On : 28 Apr 2025 14:00
Operator : RC/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Quant Time: Apr 28 15:13:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:11:09 2025
Response via : Initial Calibration



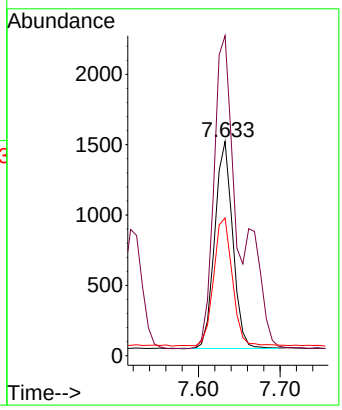


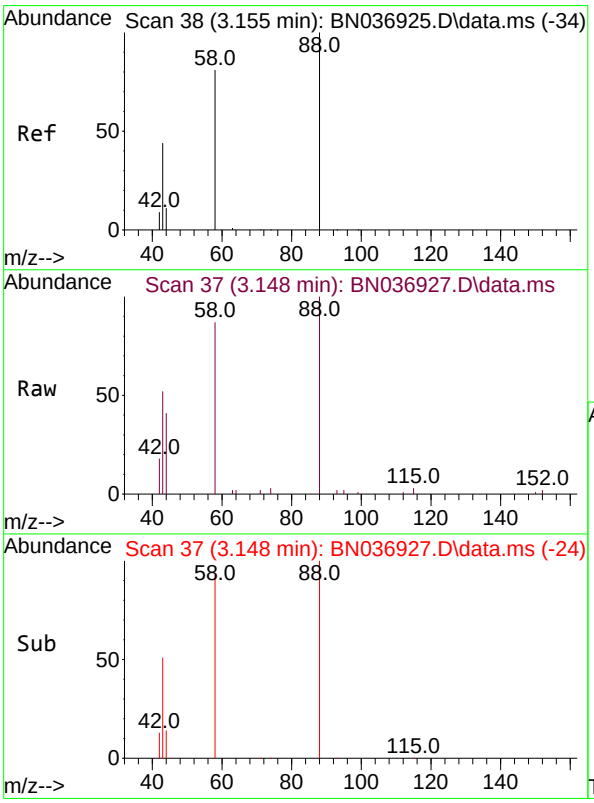
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.633 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:152 Resp: 2241

Ion	Ratio	Lower	Upper
152	100		
150	149.4	121.1	181.7
115	64.3	51.8	77.6

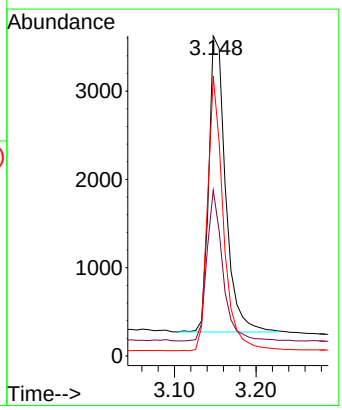


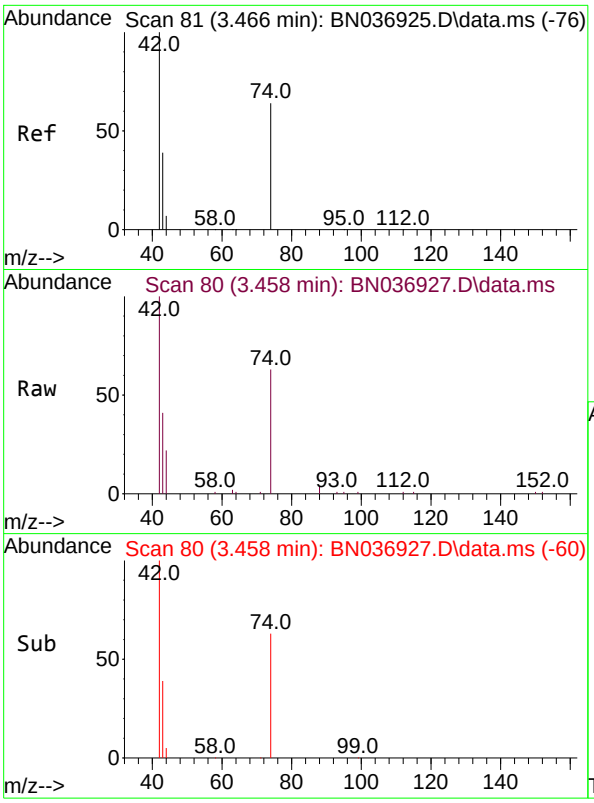


#2
1,4-Dioxane
Concen: 1.701 ng
RT: 3.148 min Scan# 37
Delta R.T. -0.007 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

Tgt Ion: 88 Resp: 4813

Ion	Ratio	Lower	Upper
88	100		
43	48.0	37.9	56.9
58	86.9	65.8	98.6



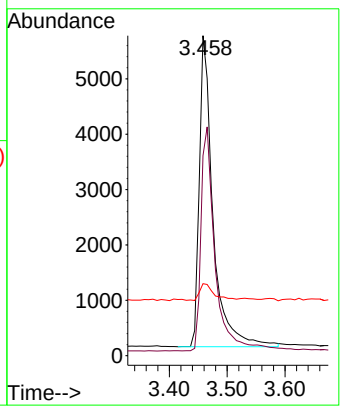


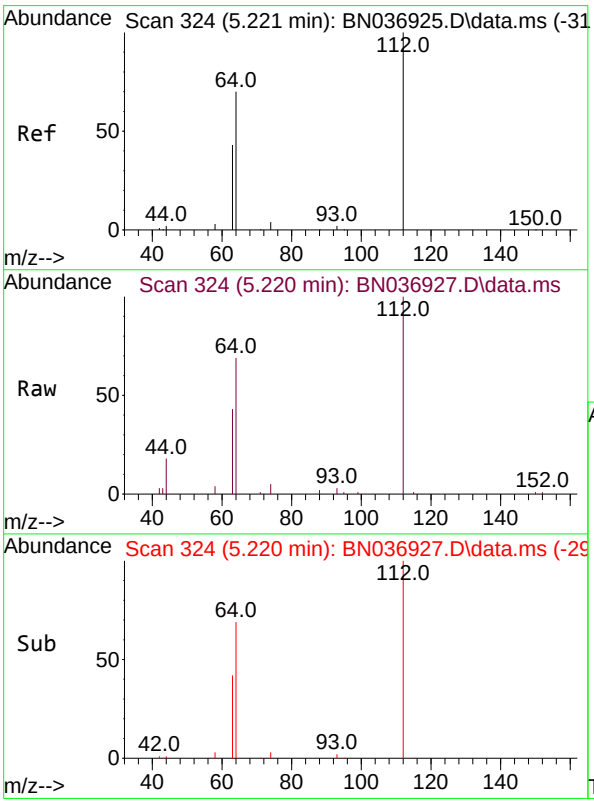
#3
n-Nitrosodimethylamine
Concen: 1.696 ng
RT: 3.458 min Scan# 8
Delta R.T. -0.007 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion: 42 Resp: 9269

Ion	Ratio	Lower	Upper
42	100		
74	73.6	59.9	89.9
44	5.5	7.5	11.3#

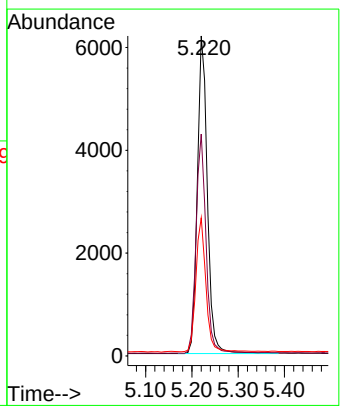


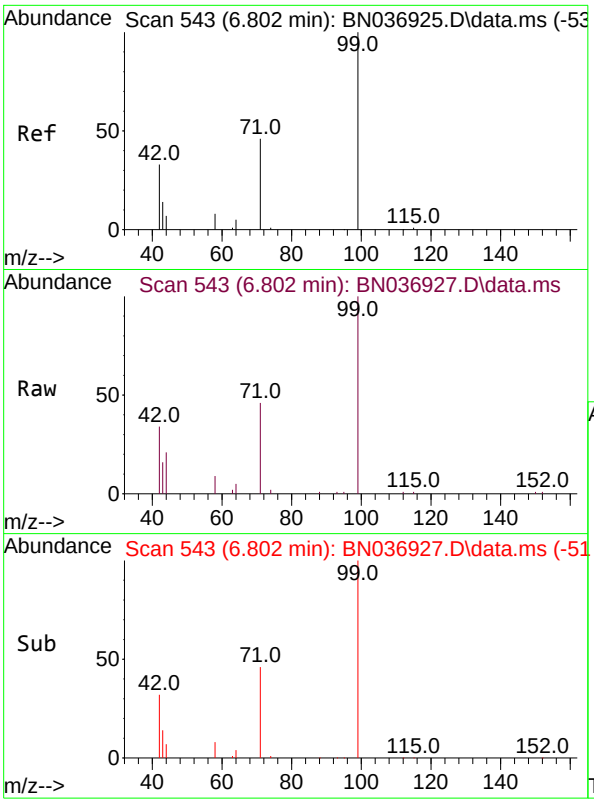


#4
2-Fluorophenol
Concen: 1.613 ng
RT: 5.220 min Scan# 324
Delta R.T. -0.000 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

Tgt Ion:112 Resp: 9327

Ion	Ratio	Lower	Upper
112	100		
64	68.9	55.7	83.5
63	42.2	33.9	50.9



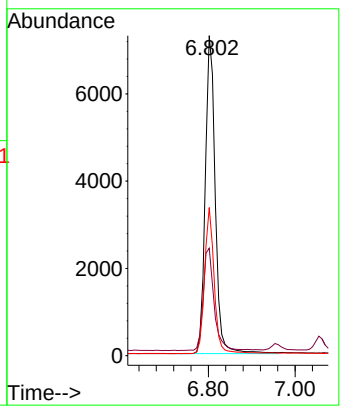


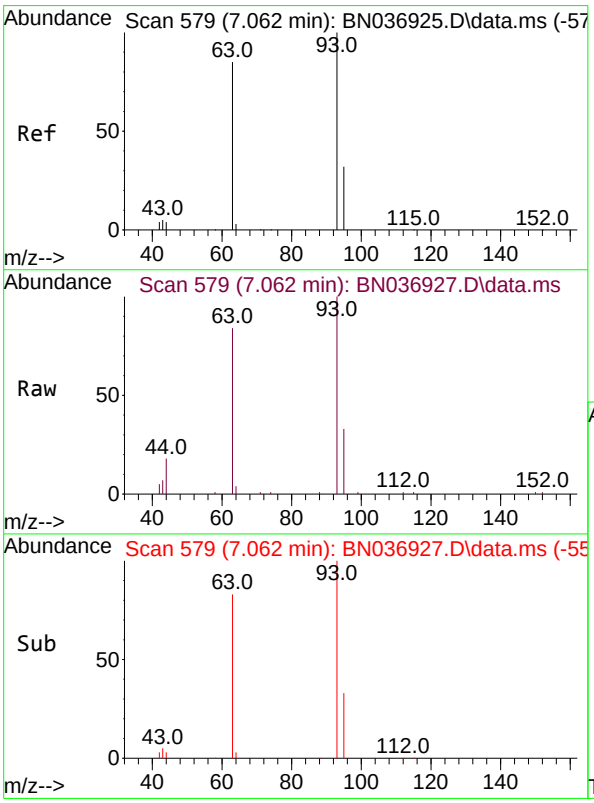
#5
Phenol-d6
Concen: 1.647 ng
RT: 6.802 min Scan# 54
Delta R.T. -0.000 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion: 99 Resp: 11600

Ion	Ratio	Lower	Upper
99	100		
42	35.3	29.6	44.4
71	44.4	36.0	54.0

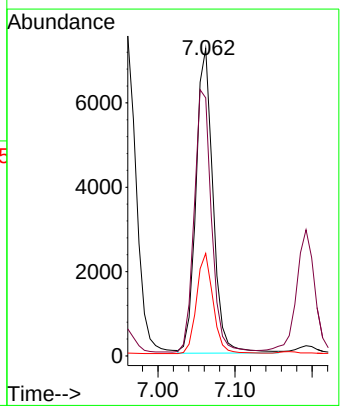


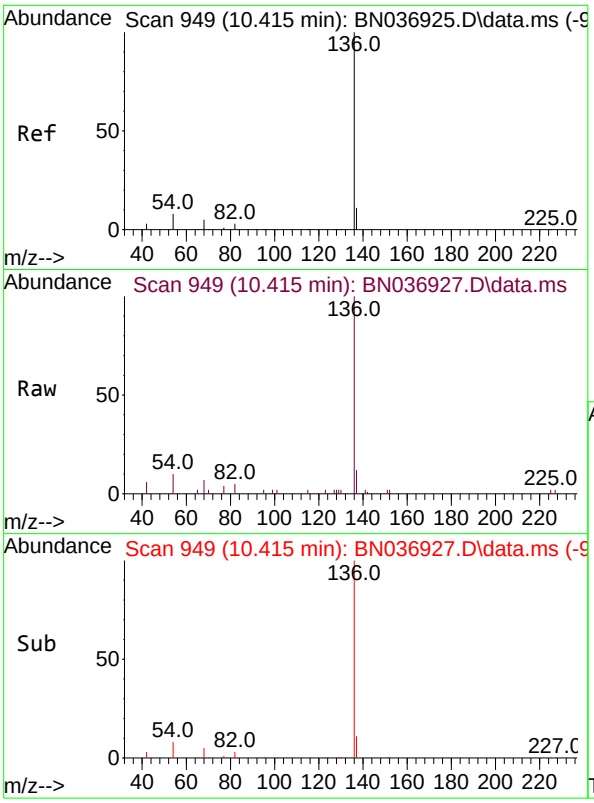


#6
bis(2-Chloroethyl)ether
Concen: 1.699 ng
RT: 7.062 min Scan# 579
Delta R.T. -0.000 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

Tgt Ion: 93 Resp: 11118

Ion	Ratio	Lower	Upper
93	100		
63	87.5	69.0	103.6
95	31.9	25.4	38.0



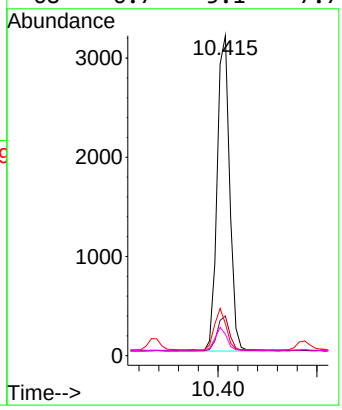


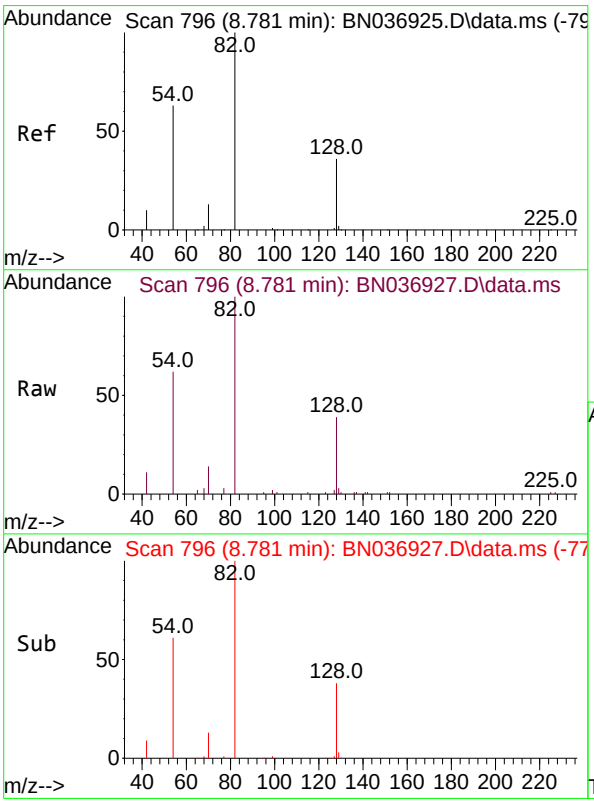
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.415 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:136 Resp: 5594

Ion	Ratio	Lower	Upper
136	100		
137	12.4	9.7	14.5
54	10.0	8.0	12.0
68	6.7	5.1	7.7

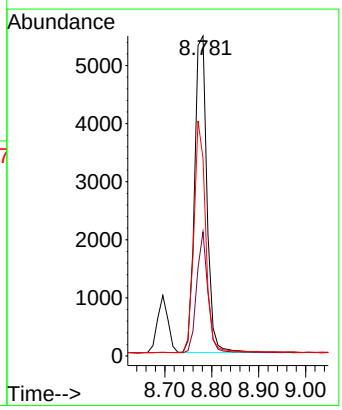


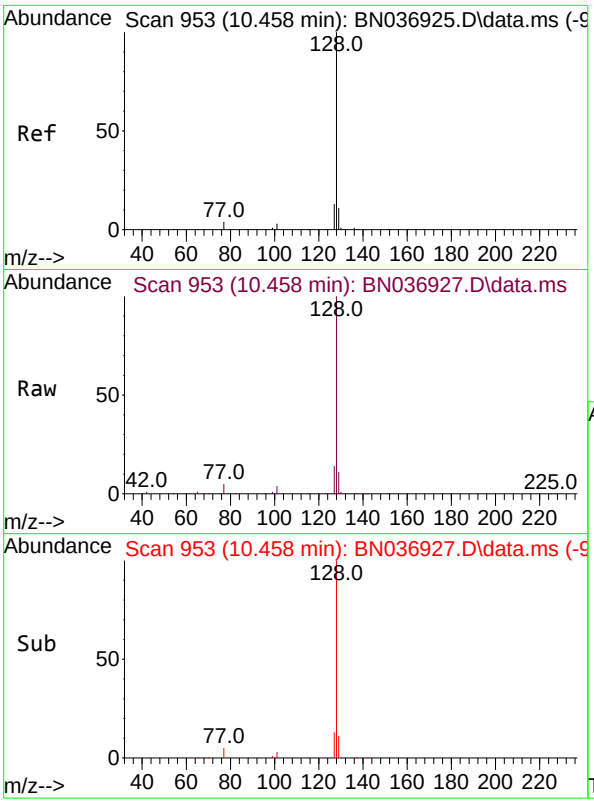


#8
Nitrobenzene-d5
Concen: 1.716 ng
RT: 8.781 min Scan# 796
Delta R.T. -0.000 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

Tgt Ion: 82 Resp: 9972

Ion	Ratio	Lower	Upper
82	100		
128	38.8	30.7	46.1
54	61.8	52.1	78.1



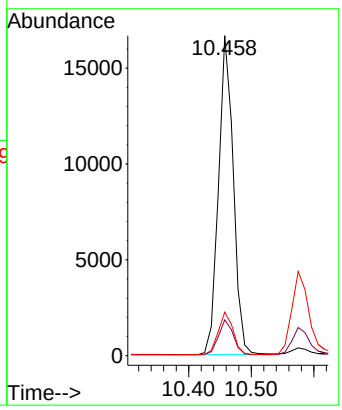


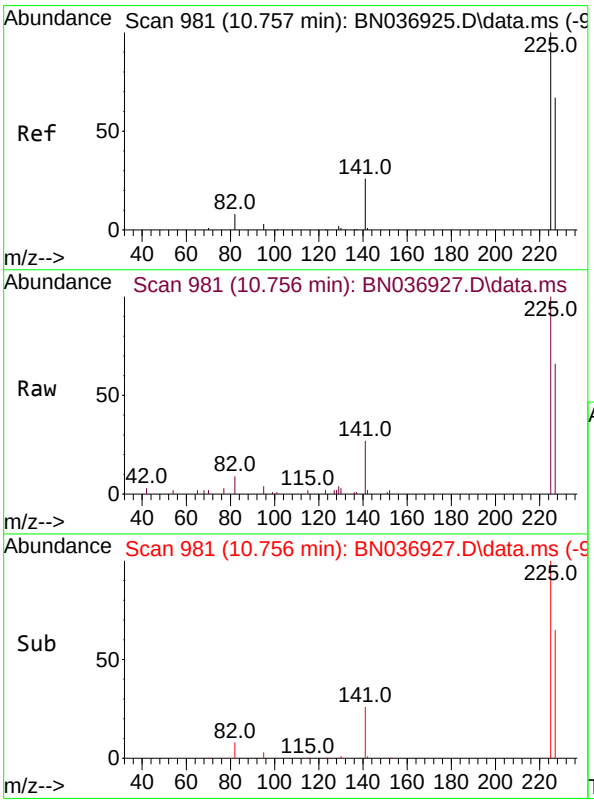
#9
Naphthalene
Concen: 1.684 ng
RT: 10.458 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:128 Resp: 27421

Ion	Ratio	Lower	Upper
128	100		
129	11.2	9.8	14.6
127	13.6	11.4	17.2

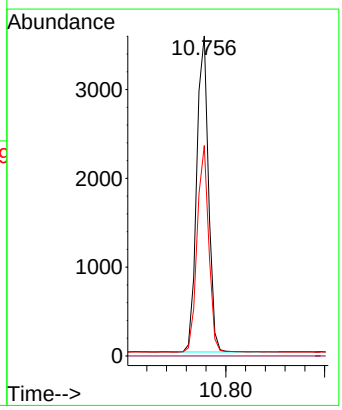


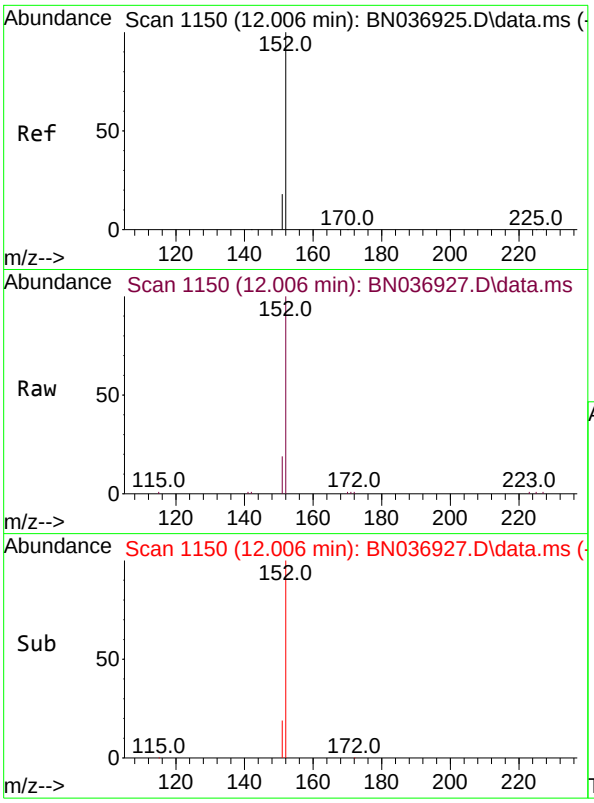


#10
Hexachlorobutadiene
Concen: 1.655 ng
RT: 10.756 min Scan# 981
Delta R.T. -0.000 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

Tgt Ion:225 Resp: 5873

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.1	52.2	78.4



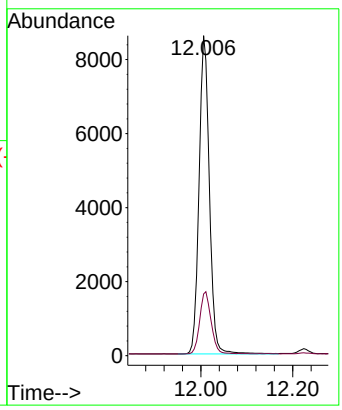


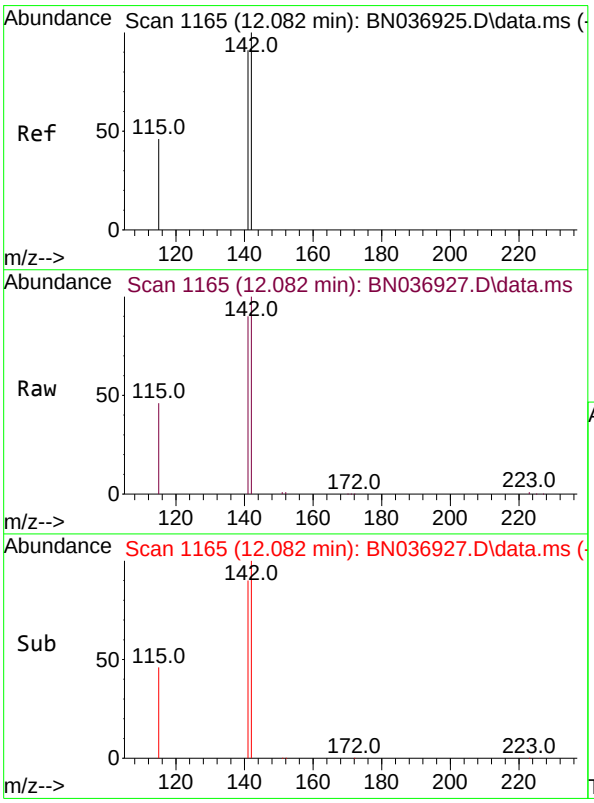
#11
2-Methylnaphthalene-d10
Concen: 1.720 ng
RT: 12.006 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:152 Resp: 13343

Ion	Ratio	Lower	Upper
152	100		
151	21.6	16.9	25.3

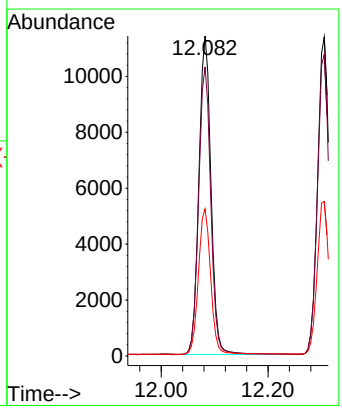


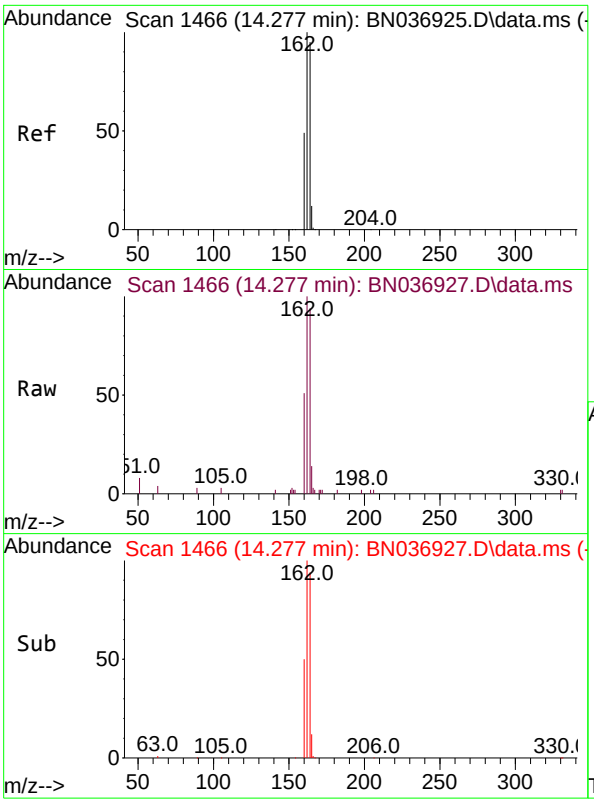


#12
2-Methylnaphthalene
Concen: 1.727 ng
RT: 12.082 min Scan# 1165
Delta R.T. -0.000 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

Tgt Ion:142 Resp: 17991

Ion	Ratio	Lower	Upper
142	100		
141	90.3	72.8	109.2
115	46.0	38.2	57.4



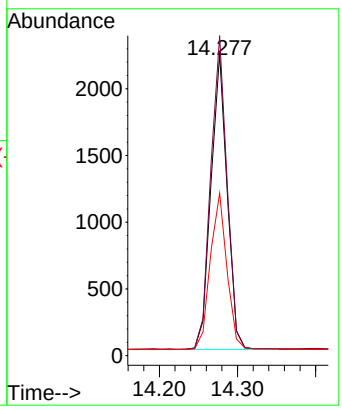


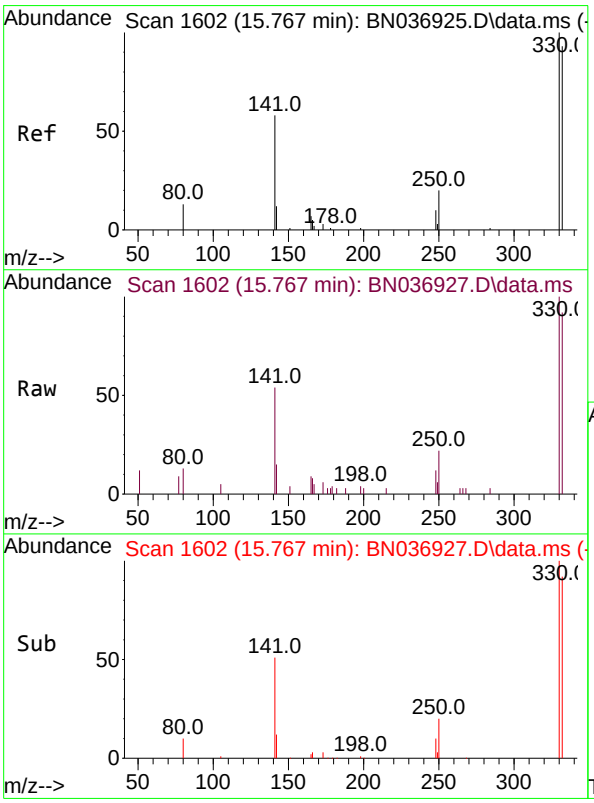
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.277 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:164 Resp: 3185

Ion	Ratio	Lower	Upper
164	100		
162	105.9	83.8	125.8
160	53.8	42.0	63.0

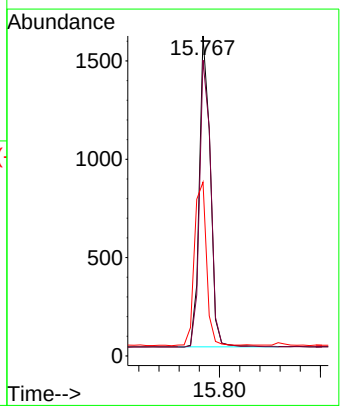


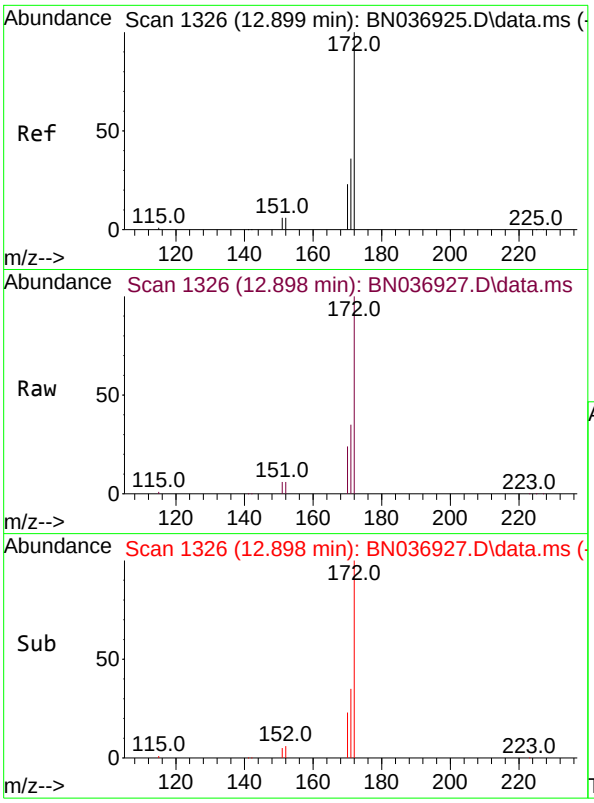


#14
2,4,6-Tribromophenol
Concen: 1.711 ng
RT: 15.767 min Scan# 1602
Delta R.T. -0.000 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

Tgt Ion:330 Resp: 2388

Ion	Ratio	Lower	Upper
330	100		
332	95.3	76.3	114.5
141	58.3	45.4	68.2



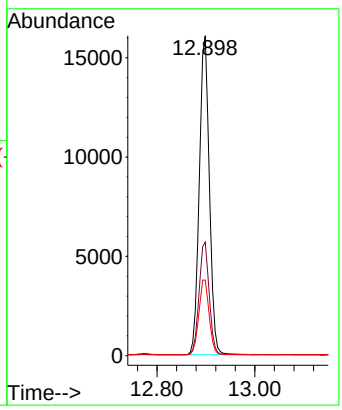


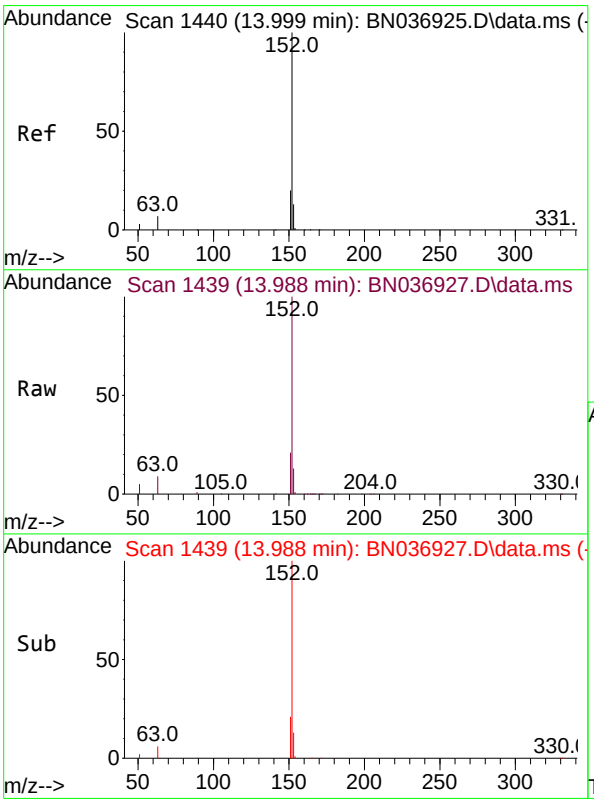
#15
2-Fluorobiphenyl
Concen: 1.673 ng
RT: 12.898 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:172 Resp: 25773

Ion	Ratio	Lower	Upper
172	100		
171	35.5	29.4	44.0
170	23.6	19.4	29.0

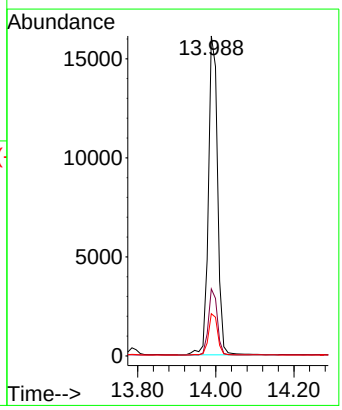


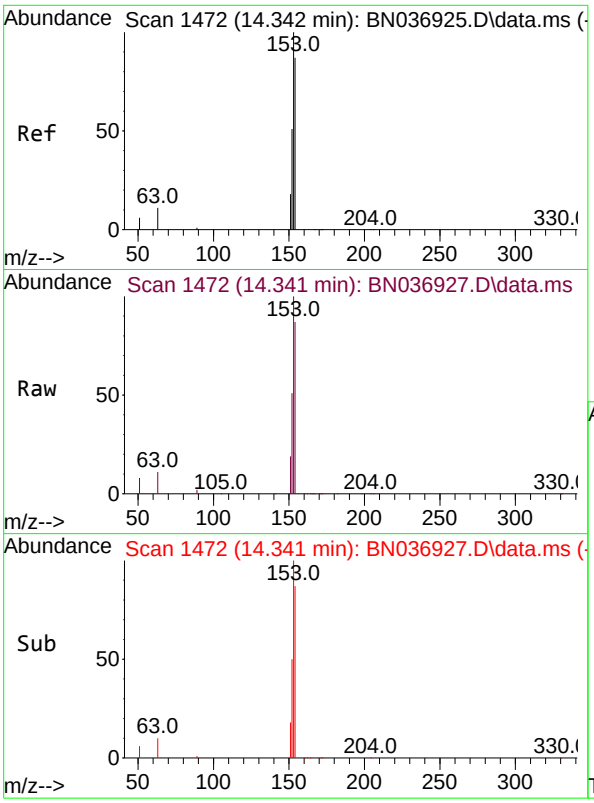


#16
Acenaphthylene
Concen: 1.708 ng
RT: 13.988 min Scan# 1439
Delta R.T. -0.011 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

Tgt Ion:152 Resp: 26335

Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.0	24.0
153	13.0	10.2	15.2



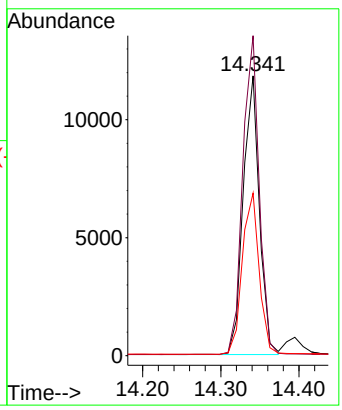


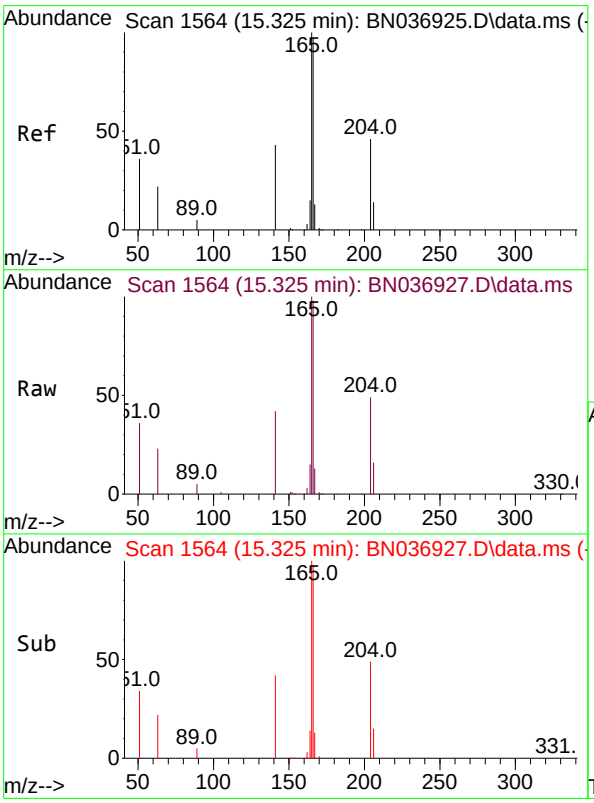
#17
Acenaphthene
Concen: 1.665 ng
RT: 14.341 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:154 Resp: 16981

Ion	Ratio	Lower	Upper
154	100		
153	116.6	93.4	140.2
152	60.9	49.5	74.3

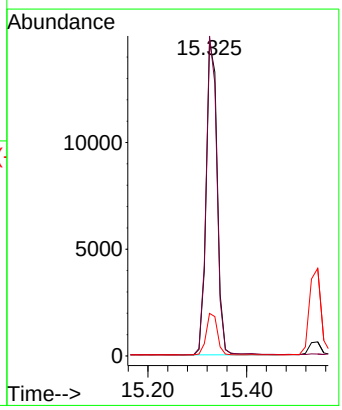


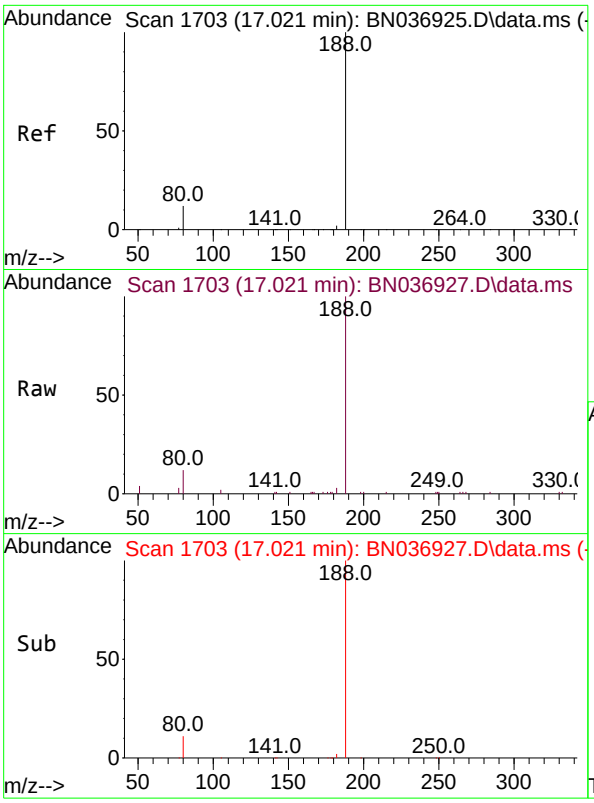


#18
Fluorene
Concen: 1.715 ng
RT: 15.325 min Scan# 1564
Delta R.T. -0.000 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

Tgt Ion:166 Resp: 22781

Ion	Ratio	Lower	Upper
166	100		
165	99.0	80.8	121.2
167	13.4	10.8	16.2



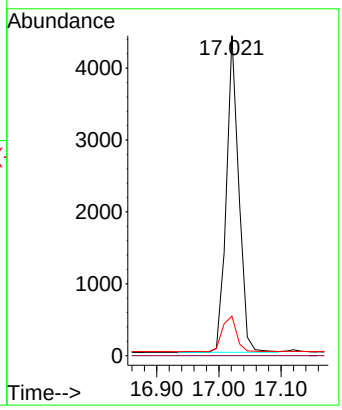


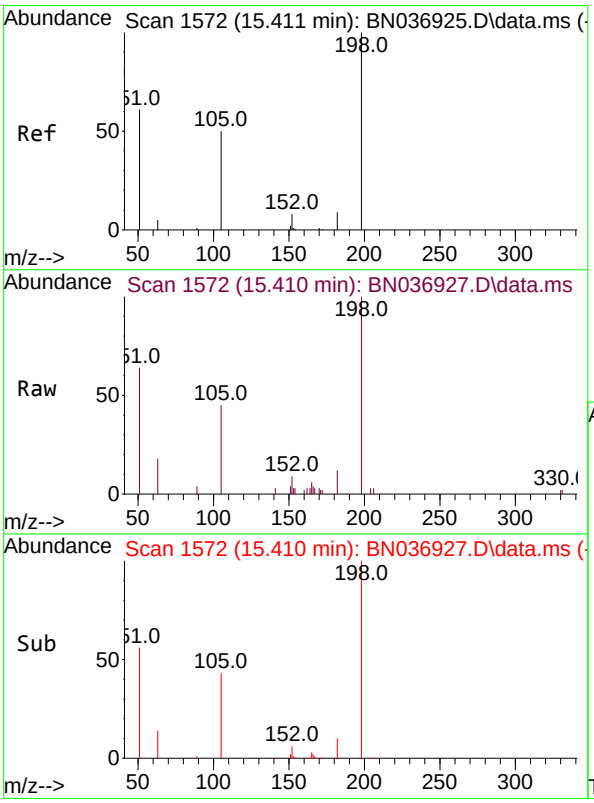
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.021 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:188 Resp: 6118

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.3	10.7	16.1

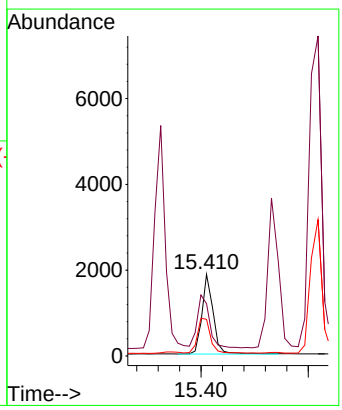


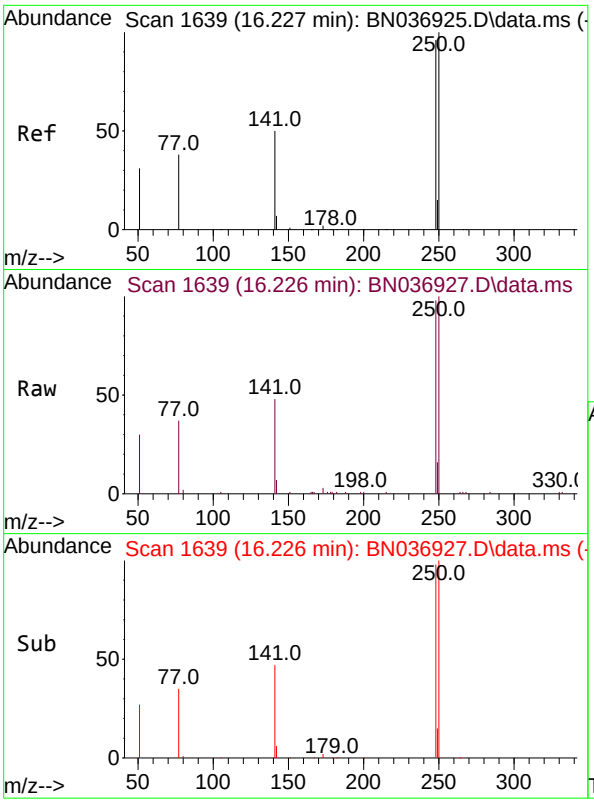


#20
4,6-Dinitro-2-methylphenol
Concen: 1.800 ng
RT: 15.410 min Scan# 1572
Delta R.T. -0.001 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

Tgt Ion:198 Resp: 2759

Ion	Ratio	Lower	Upper
198	100		
51	64.1	97.9	146.9#
105	44.9	50.0	75.0#



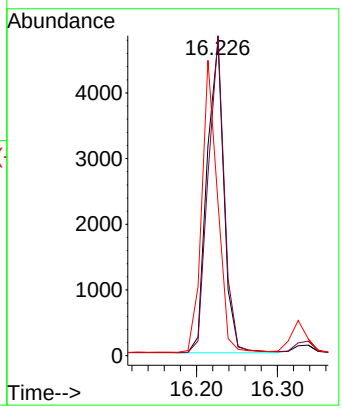


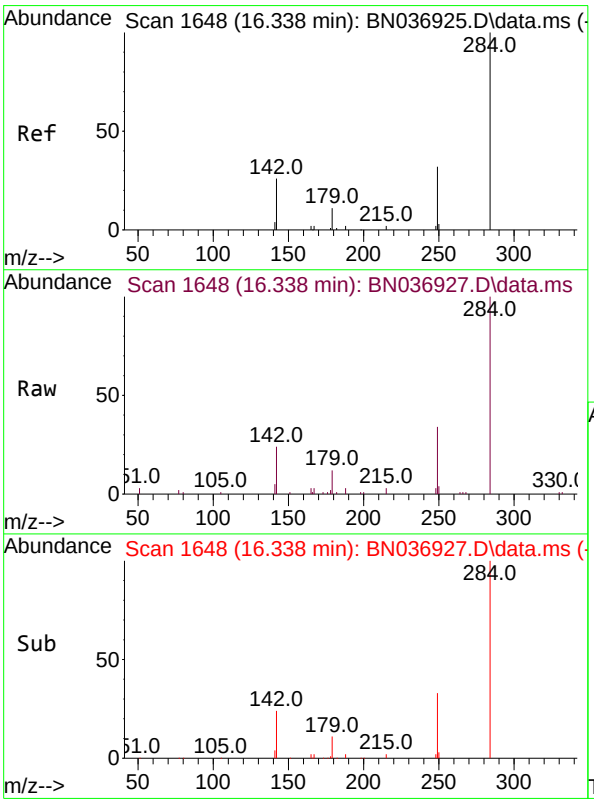
#21
4-Bromophenyl-phenylether
Concen: 1.695 ng
RT: 16.226 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:248 Resp: 6907

Ion	Ratio	Lower	Upper
248	100		
250	101.8	83.7	125.5
141	48.5	43.8	65.8

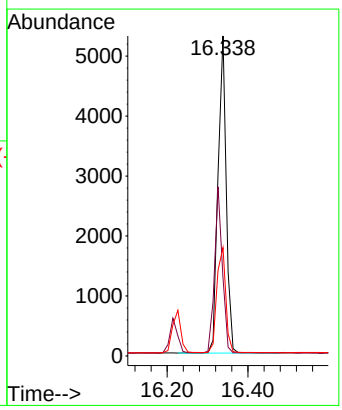


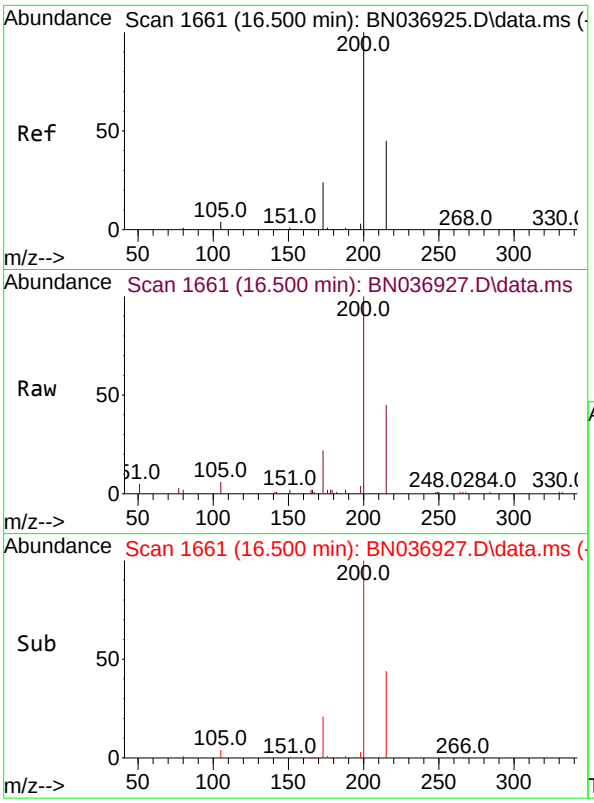


#22
Hexachlorobenzene
Concen: 1.650 ng
RT: 16.338 min Scan# 1648
Delta R.T. -0.000 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

Tgt Ion:284 Resp: 7427

Ion	Ratio	Lower	Upper
284	100		
142	50.5	40.0	60.0
249	36.5	28.2	42.2



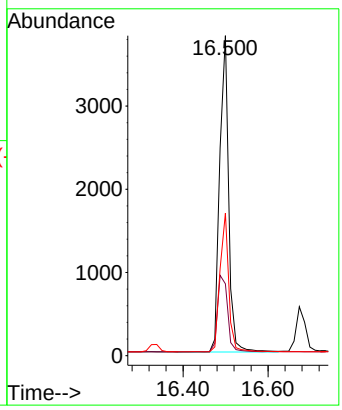


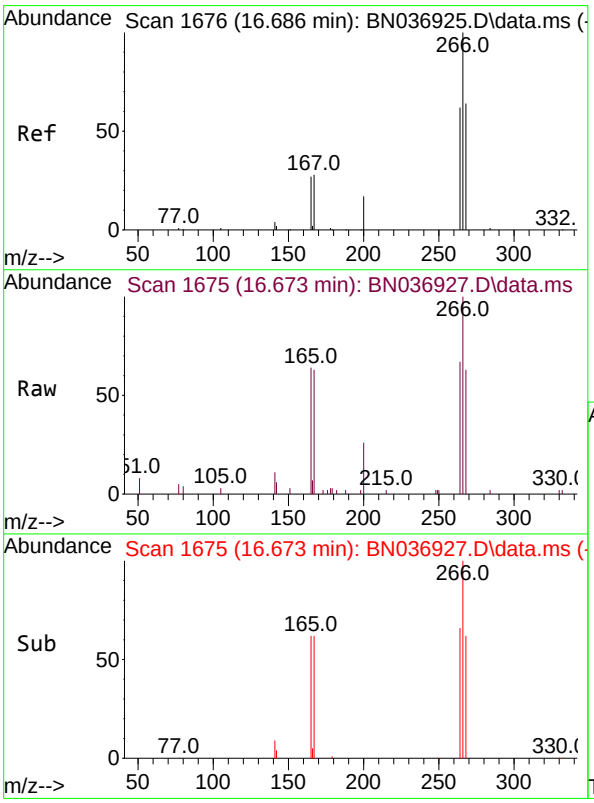
#23
Atrazine
Concen: 1.729 ng
RT: 16.500 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:200 Resp: 5555

Ion	Ratio	Lower	Upper
200	100		
173	22.5	22.4	33.6
215	44.6	38.6	57.8

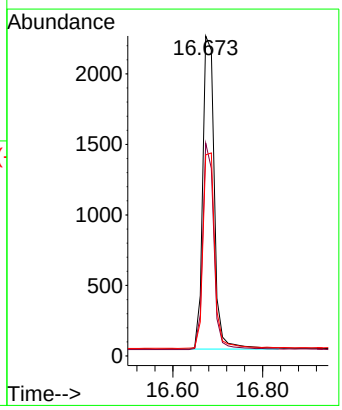


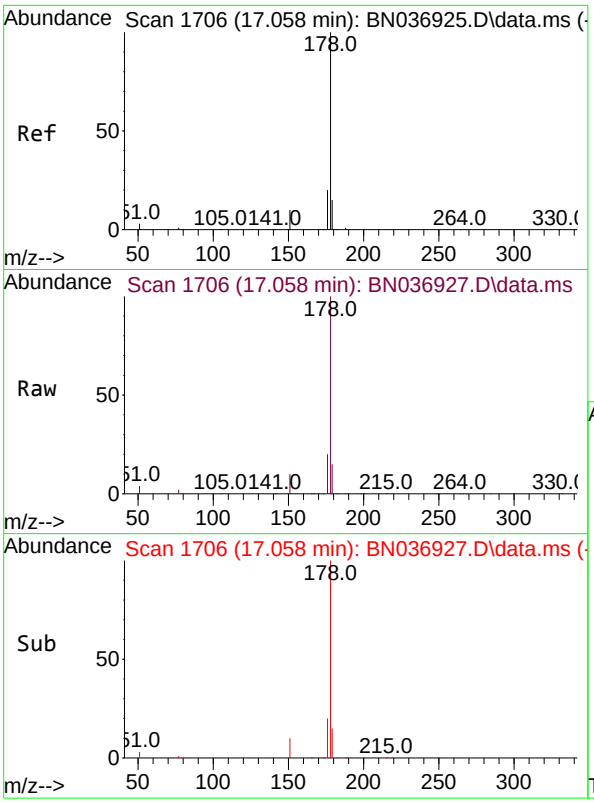


#24
Pentachlorophenol
Concen: 1.710 ng
RT: 16.673 min Scan# 1675
Delta R.T. -0.013 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

Tgt Ion:266 Resp: 3995

Ion	Ratio	Lower	Upper
266	100		
264	63.3	49.9	74.9
268	63.2	52.2	78.4



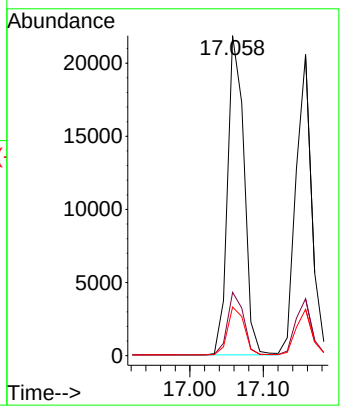


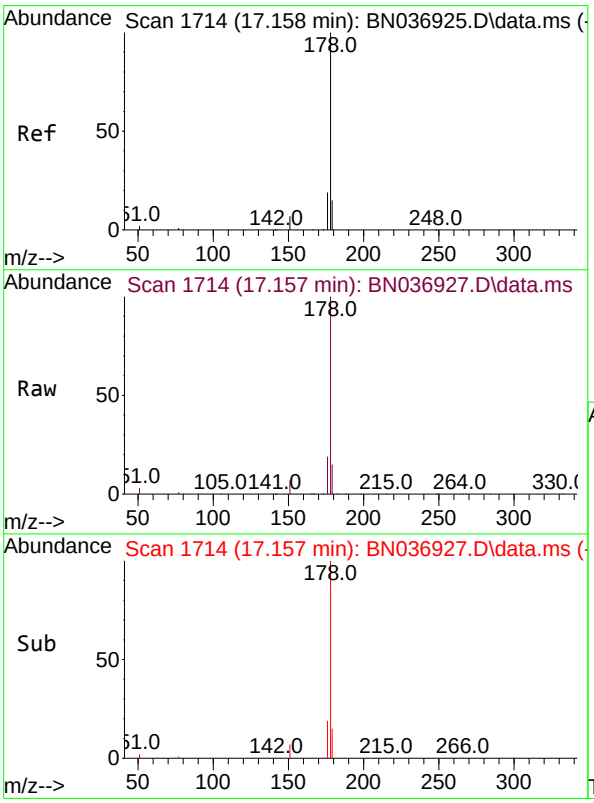
#25
Phenanthrene
Concen: 1.687 ng
RT: 17.058 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:178 Resp: 33948

Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.7	23.5
179	15.1	12.4	18.6

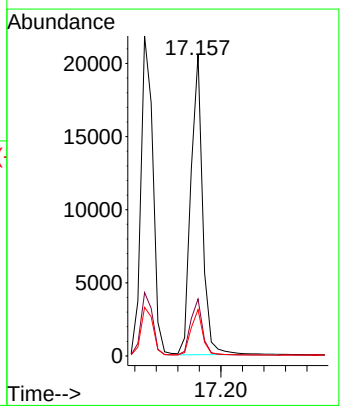


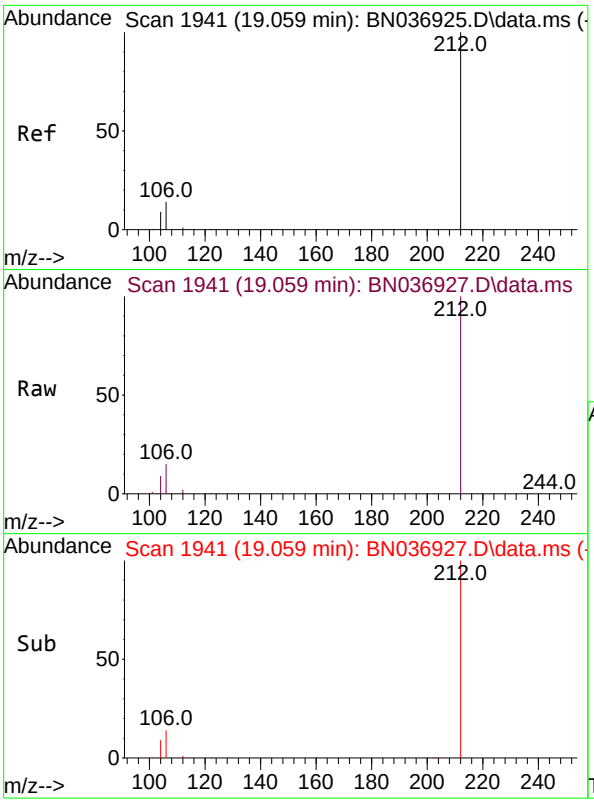


#26
Anthracene
Concen: 1.734 ng
RT: 17.157 min Scan# 1714
Delta R.T. -0.000 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

Tgt Ion:178 Resp: 31205

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.3	22.9
179	15.2	12.1	18.1



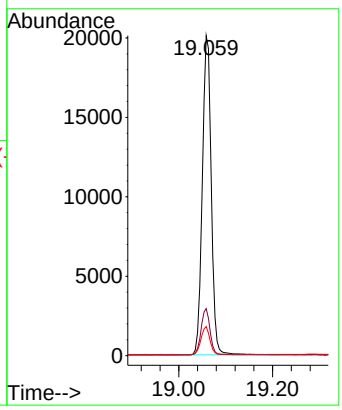


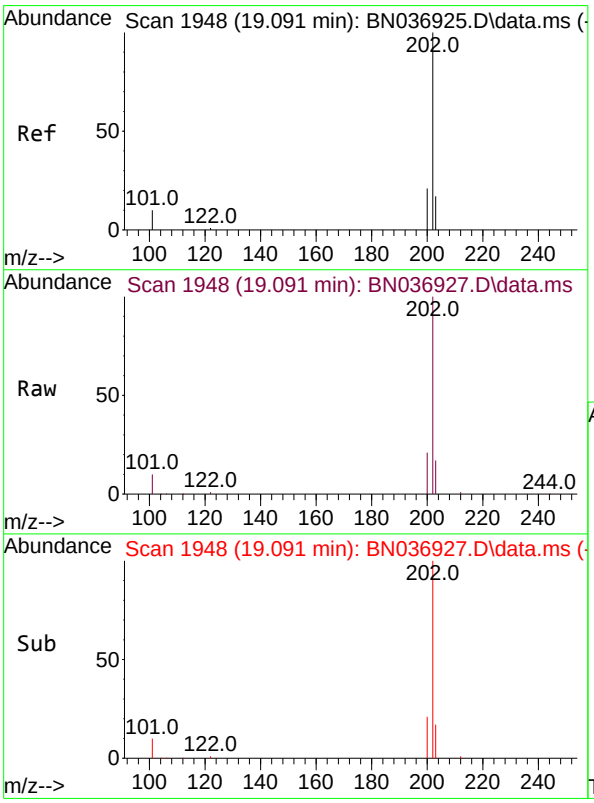
#27
Fluoranthene-d10
Concen: 1.699 ng
RT: 19.059 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:212 Resp: 26603

Ion	Ratio	Lower	Upper
212	100		
106	14.4	11.6	17.4
104	8.8	7.0	10.4

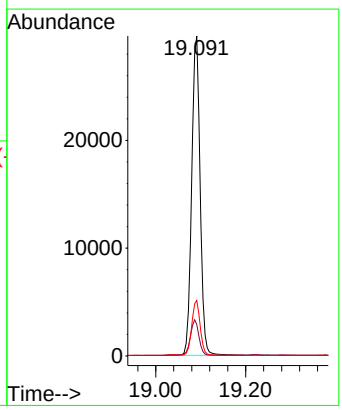


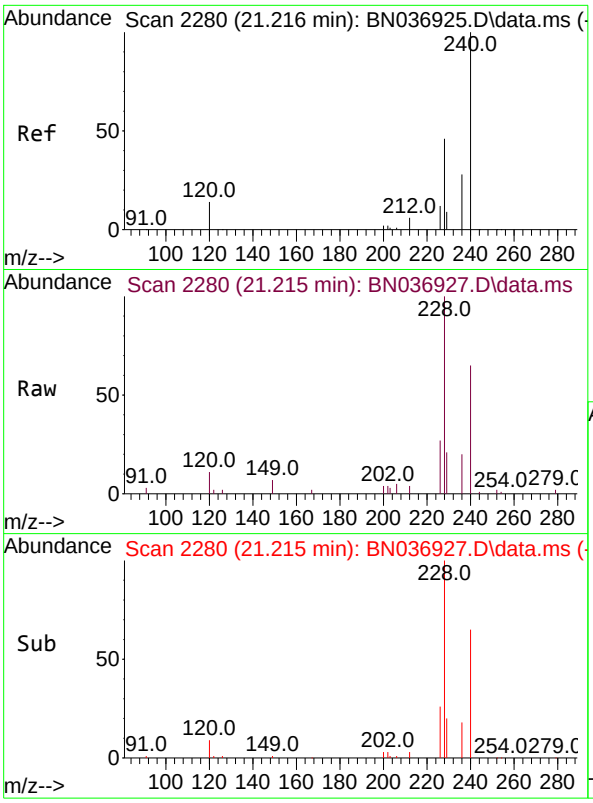


#28
Fluoranthene
Concen: 1.732 ng
RT: 19.091 min Scan# 1948
Delta R.T. -0.000 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

Tgt Ion:202 Resp: 38607

Ion	Ratio	Lower	Upper
202	100		
101	11.3	8.5	12.7
203	17.0	13.7	20.5



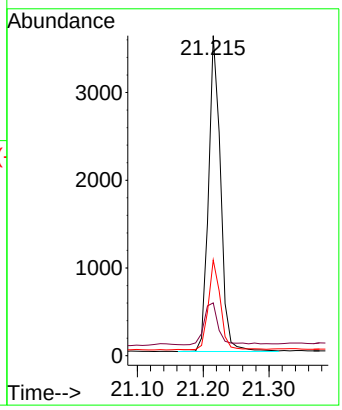


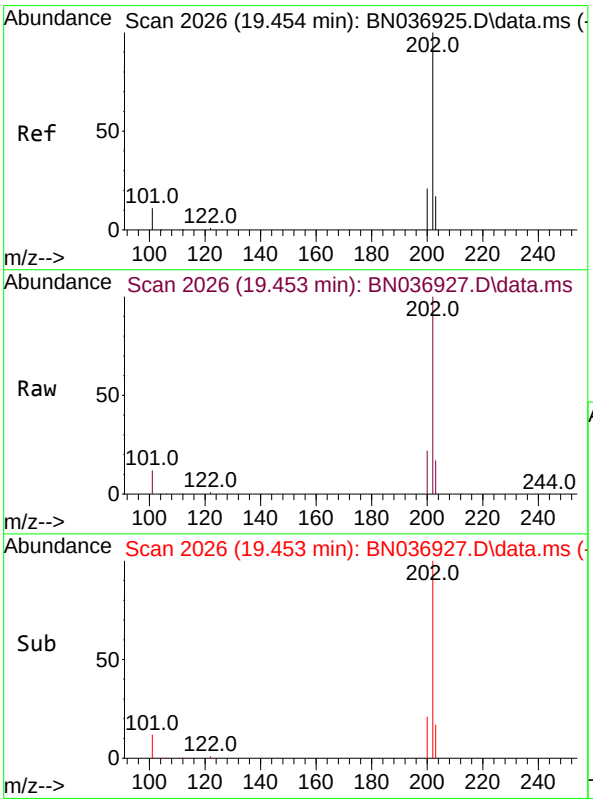
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.215 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:240 Resp: 4605

Ion	Ratio	Lower	Upper
240	100		
120	16.5	14.1	21.1
236	29.9	23.8	35.8

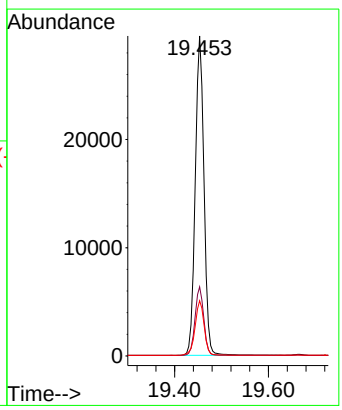


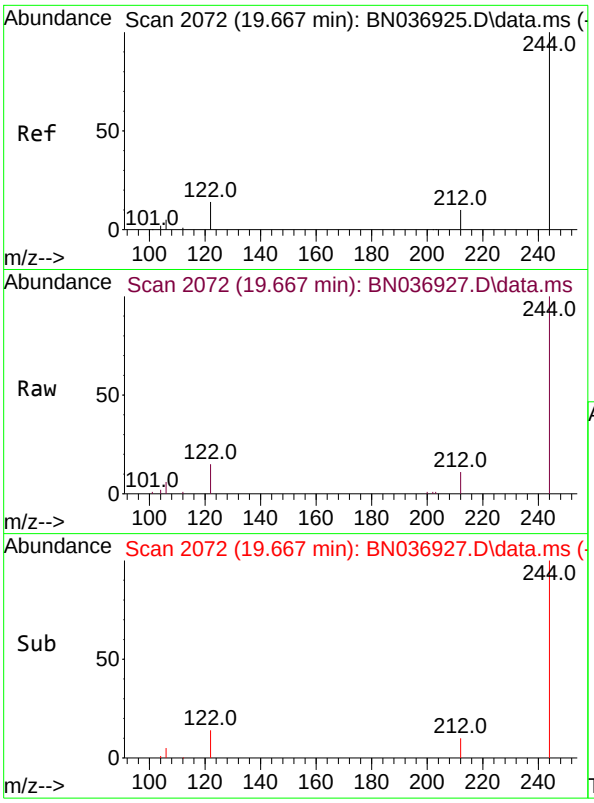


#30
Pyrene
Concen: 1.706 ng
RT: 19.453 min Scan# 2026
Delta R.T. -0.000 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

Tgt Ion:202 Resp: 38176

Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.0	25.6
203	17.7	14.0	21.0



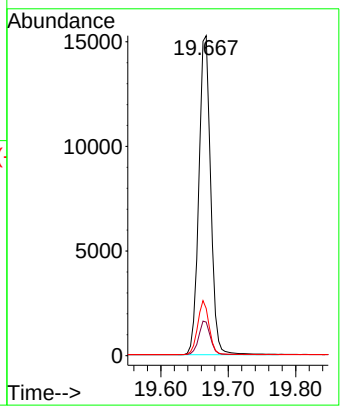


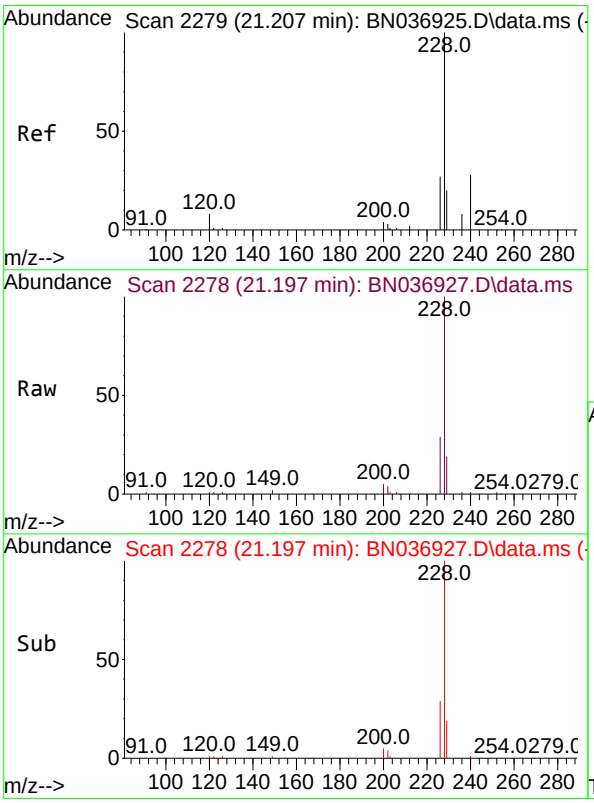
#31
Terphenyl-d14
Concen: 1.689 ng
RT: 19.667 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:244 Resp: 18514

Ion	Ratio	Lower	Upper
244	100		
212	10.5	9.6	14.4
122	14.7	12.7	19.1

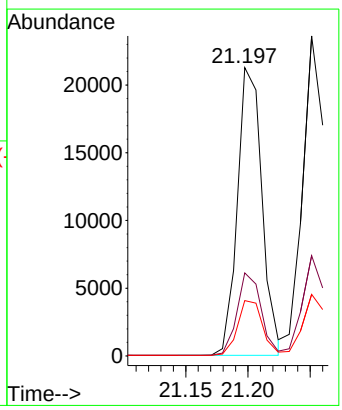


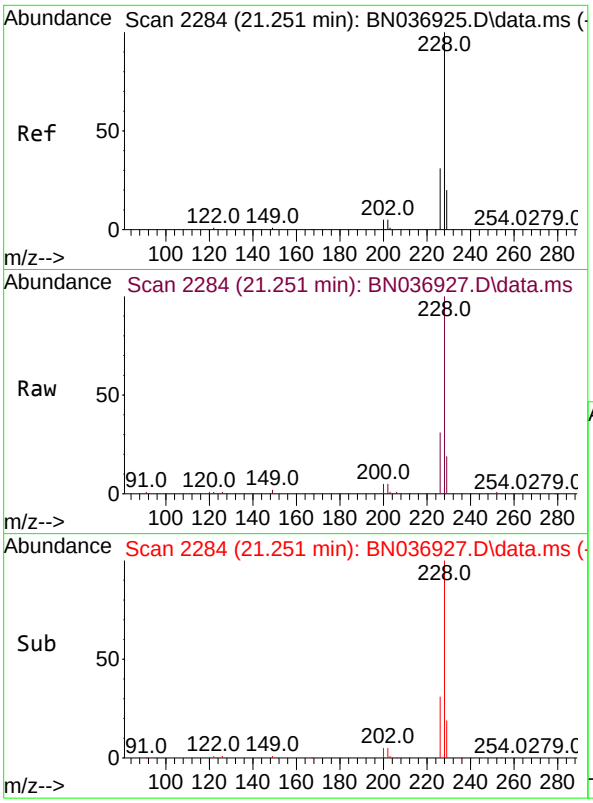


#32
Benzo(a)anthracene
Concen: 1.737 ng
RT: 21.197 min Scan# 2278
Delta R.T. -0.009 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

Tgt Ion:228 Resp: 29164

Ion	Ratio	Lower	Upper
228	100		
226	28.8	22.2	33.4
229	19.2	16.4	24.6



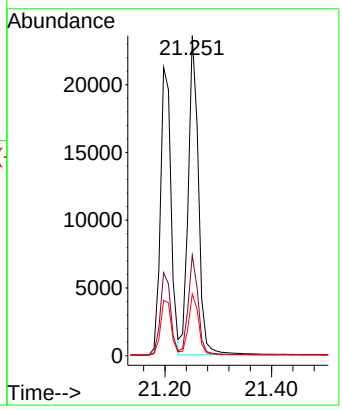


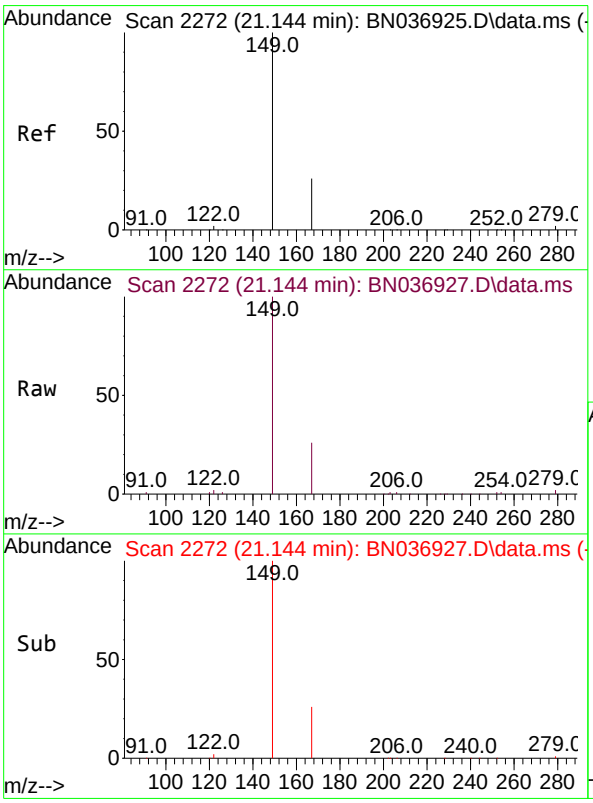
#33
Chrysene
Concen: 1.703 ng
RT: 21.251 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:228 Resp: 31322

Ion	Ratio	Lower	Upper
228	100		
226	31.3	25.5	38.3
229	19.3	16.5	24.7

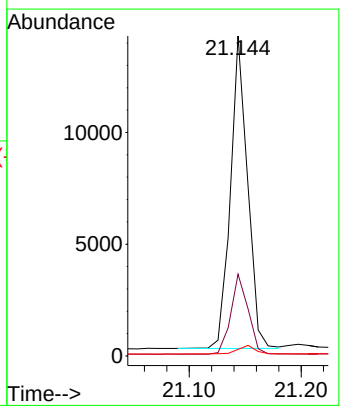


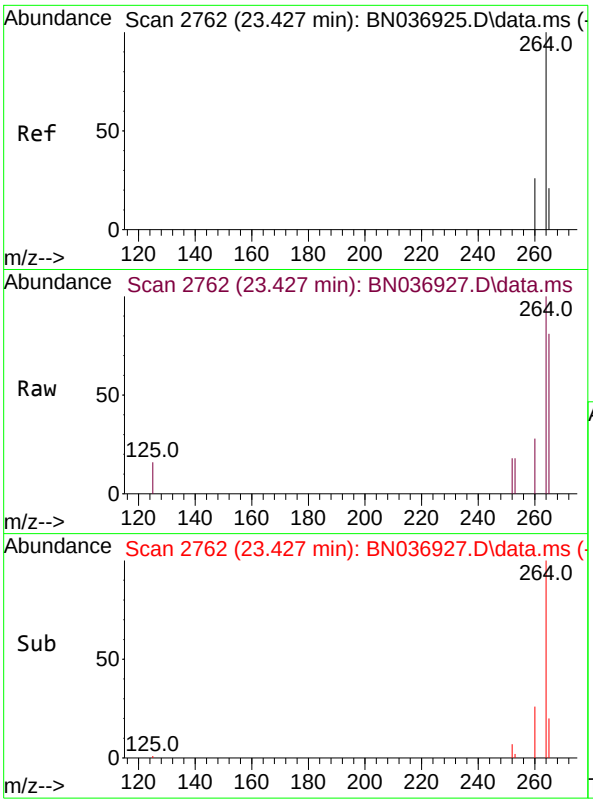


#34
Bis(2-ethylhexyl)phthalate
Concen: 1.544 ng
RT: 21.144 min Scan# 2272
Delta R.T. -0.000 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

Tgt Ion:149 Resp: 14810

Ion	Ratio	Lower	Upper
149	100		
167	25.9	21.0	31.6
279	2.9	2.7	4.1



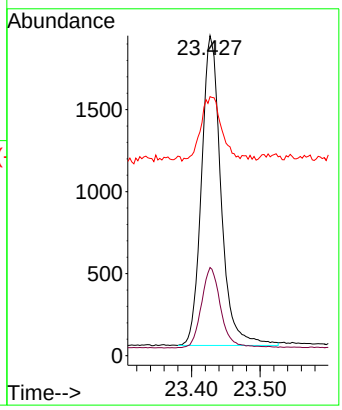


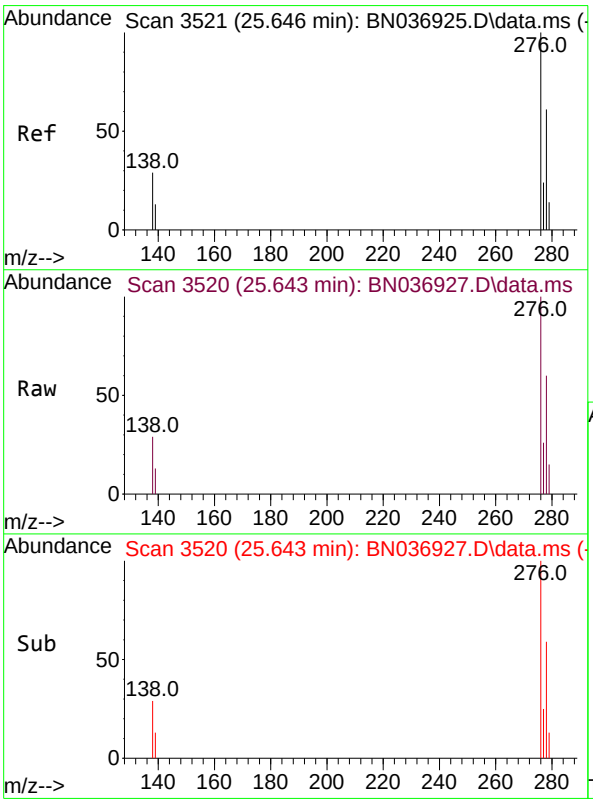
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.427 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:264 Resp: 3734

Ion	Ratio	Lower	Upper
264	100		
260	27.5	22.2	33.2
265	80.9	65.8	98.6

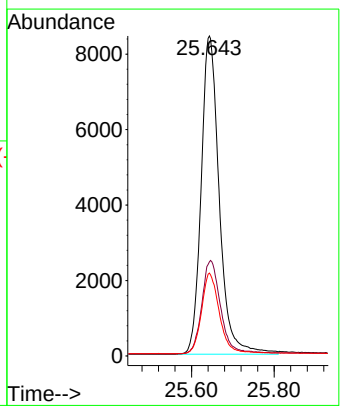


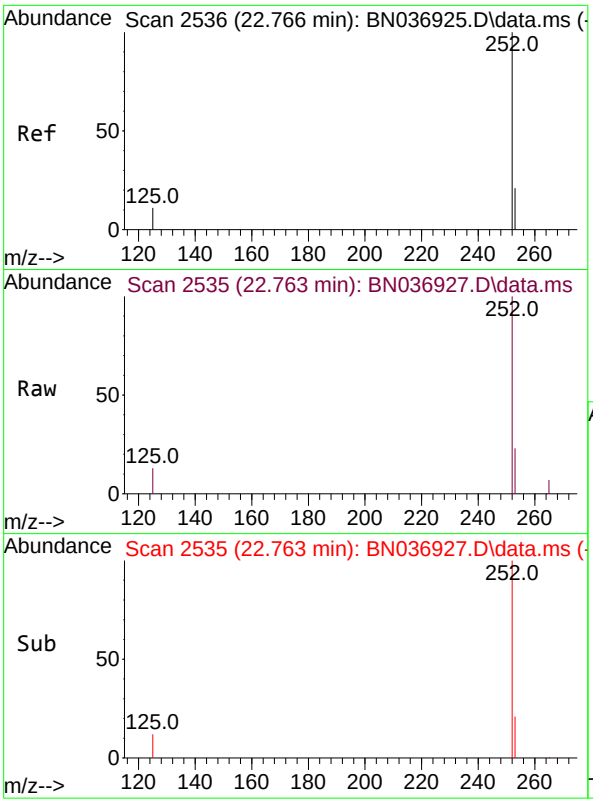


#36
Indeno(1,2,3-cd)pyrene
Concen: 1.681 ng
RT: 25.643 min Scan# 3520
Delta R.T. -0.003 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

Tgt Ion:276 Resp: 25695

Ion	Ratio	Lower	Upper
276	100		
138	30.1	23.0	34.6
277	25.0	20.0	30.0



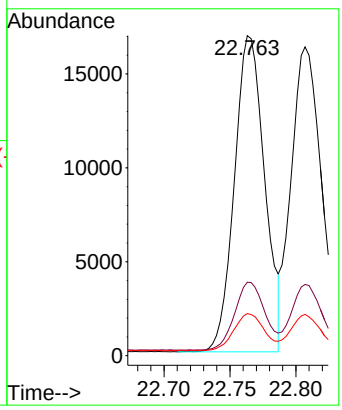


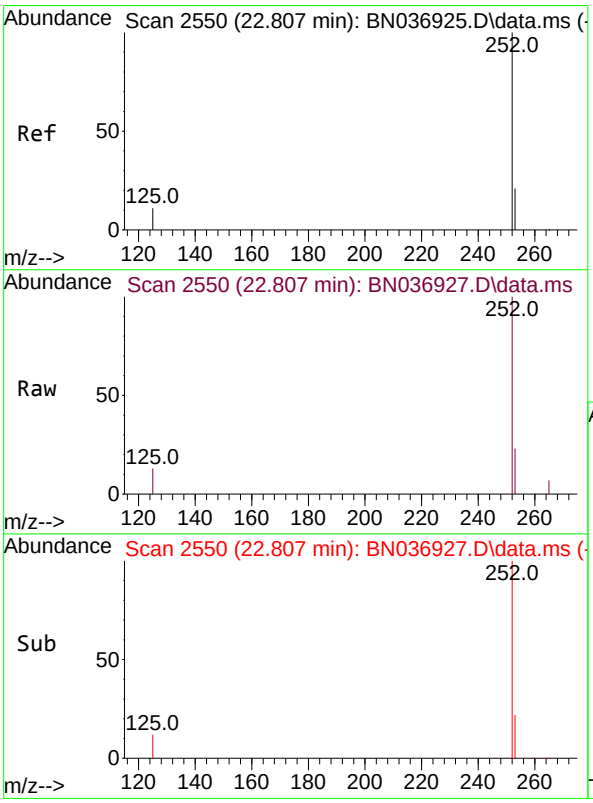
#37
Benzo(b)fluoranthene
Concen: 1.733 ng
RT: 22.763 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:252 Resp: 26826

Ion	Ratio	Lower	Upper
252	100		
253	23.0	22.1	33.1
125	13.1	14.2	21.2#

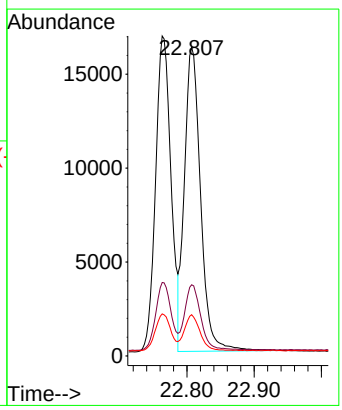


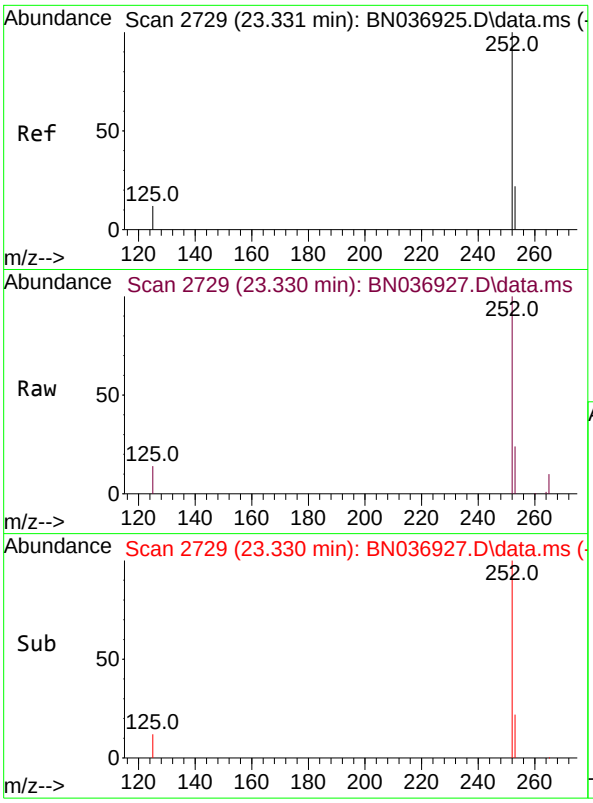


#38
Benzo(k)fluoranthene
Concen: 1.730 ng
RT: 22.807 min Scan# 2550
Delta R.T. -0.000 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

Tgt Ion:252 Resp: 27065

Ion	Ratio	Lower	Upper
252	100		
253	23.1	22.8	34.2
125	13.4	14.2	21.2#



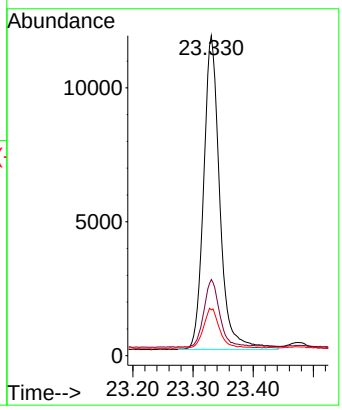


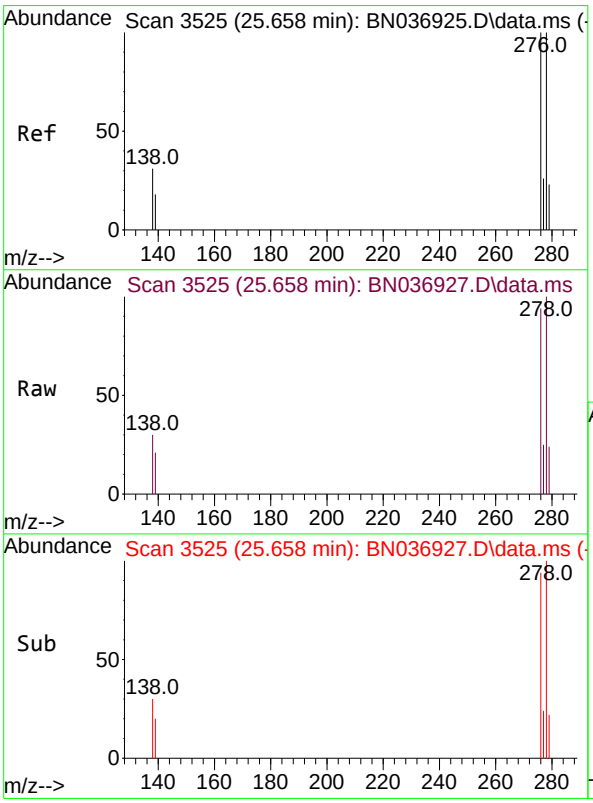
#39
Benzo(a)pyrene
Concen: 1.712 ng
RT: 23.330 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:252 Resp: 21844

Ion	Ratio	Lower	Upper
252	100		
253	23.8	25.9	38.9#
125	14.4	17.4	26.0#

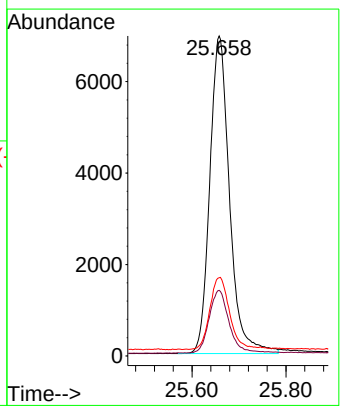


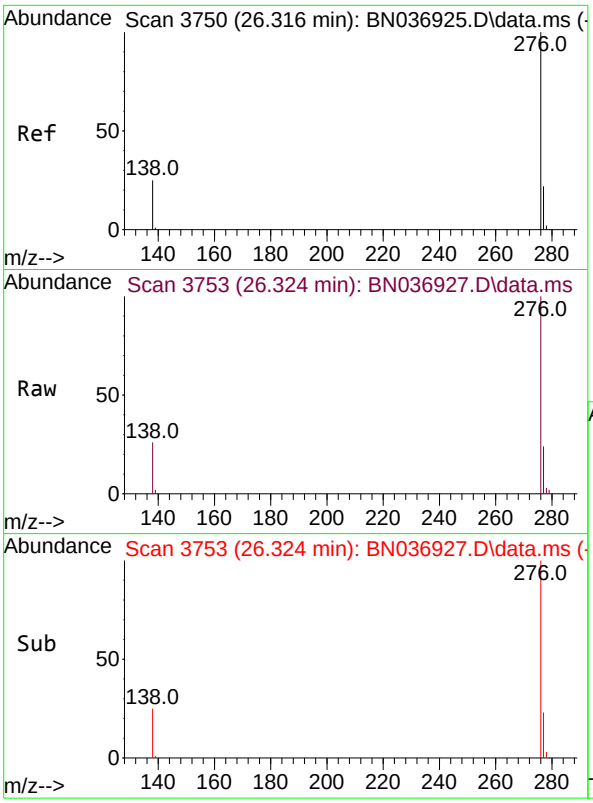


#40
Dibenzo(a,h)anthracene
Concen: 1.685 ng
RT: 25.658 min Scan# 3525
Delta R.T. -0.000 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

Tgt Ion:278 Resp: 20274

Ion	Ratio	Lower	Upper
278	100		
139	20.5	17.4	26.2
279	24.5	24.9	37.3#



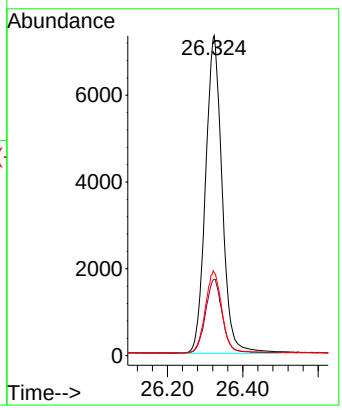


#41
Benzo(g,h,i)perylene
Concen: 1.659 ng
RT: 26.324 min Scan# 3
Delta R.T. 0.009 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:276 Resp: 22323

Ion	Ratio	Lower	Upper
276	100		
277	23.9	20.2	30.2
138	26.0	21.9	32.9



Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042825\
Data File : BN036928.D
Acq On : 28 Apr 2025 14:36
Operator : RC/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Quant Time: Apr 28 15:14:05 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:11:09 2025
Response via : Initial Calibration

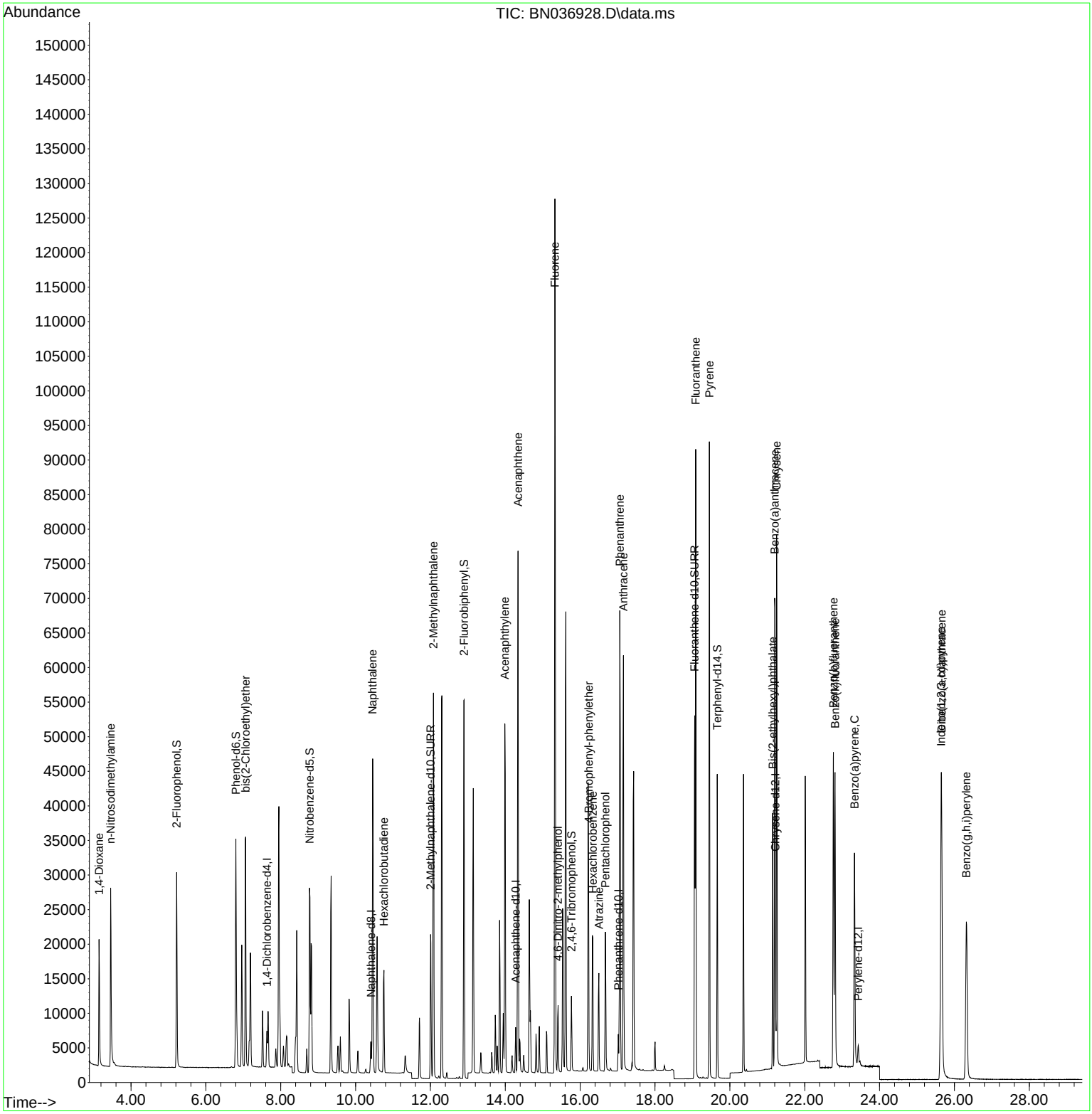
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.633	152	2400	0.400	ng		0.00
7) Naphthalene-d8	10.415	136	5910	0.400	ng		0.00
13) Acenaphthene-d10	14.277	164	3394	0.400	ng		0.00
19) Phenanthrene-d10	17.021	188	6361	0.400	ng		0.00
29) Chrysene-d12	21.216	240	4896	0.400	ng		0.00
35) Perylene-d12	23.430	264	3763	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.221	112	18856	3.045	ng		0.00
5) Phenol-d6	6.802	99	24093	3.194	ng		0.00
8) Nitrobenzene-d5	8.771	82	20418	3.326	ng		-0.01
11) 2-Methylnaphthalene-d10	12.006	152	27198	3.319	ng		0.00
14) 2,4,6-Tribromophenol	15.768	330	4998	3.360	ng		0.00
15) 2-Fluorobiphenyl	12.899	172	53914	3.285	ng		0.00
27) Fluoranthene-d10	19.059	212	53576	3.290	ng		0.00
31) Terphenyl-d14	19.663	244	37287	3.200	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.148	88	9383	3.096	ng		96
3) n-Nitrosodimethylamine	3.458	42	18278	3.122	ng	#	99
6) bis(2-Chloroethyl)ether	7.062	93	22311	3.183	ng		99
9) Naphthalene	10.458	128	55337	3.217	ng		98
10) Hexachlorobutadiene	10.757	225	11705	3.121	ng	#	98
12) 2-Methylnaphthalene	12.082	142	36995	3.361	ng		98
16) Acenaphthylene	13.989	152	55247	3.362	ng		100
17) Acenaphthene	14.342	154	35171	3.236	ng		98
18) Fluorene	15.325	166	46714	3.301	ng		99
20) 4,6-Dinitro-2-methylph...	15.411	198	6093	3.823	ng	#	51
21) 4-Bromophenyl-phenylether	16.227	248	13834	3.266	ng	#	94
22) Hexachlorobenzene	16.338	284	14891	3.181	ng		99
23) Atrazine	16.500	200	11521	3.449	ng	#	91
24) Pentachlorophenol	16.674	266	8528	3.511	ng		99
25) Phenanthrene	17.058	178	68482	3.273	ng		99
26) Anthracene	17.158	178	64181	3.430	ng		100
28) Fluoranthene	19.087	202	77836	3.358	ng		99
30) Pyrene	19.454	202	77117	3.241	ng		100
32) Benzo(a)anthracene	21.198	228	59092	3.310	ng		97
33) Chrysene	21.251	228	61582	3.149	ng		98
34) Bis(2-ethylhexyl)phtha...	21.144	149	30625	3.002	ng	#	99
36) Indeno(1,2,3-cd)pyrene	25.643	276	51906	3.369	ng		98
37) Benzo(b)fluoranthene	22.766	252	52921	3.393	ng	#	89
38) Benzo(k)fluoranthene	22.810	252	53706	3.406	ng	#	88
39) Benzo(a)pyrene	23.331	252	43554	3.387	ng	#	83
40) Dibenzo(a,h)anthracene	25.655	278	41500	3.423	ng	#	91
41) Benzo(g,h,i)perylene	26.319	276	44250	3.263	ng		98

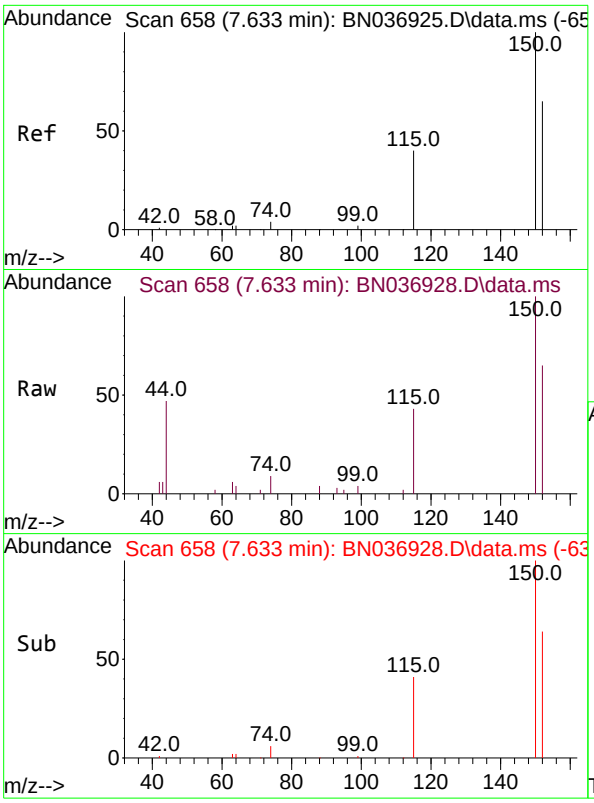
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042825\
Data File : BN036928.D
Acq On : 28 Apr 2025 14:36
Operator : RC/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Quant Time: Apr 28 15:14:05 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:11:09 2025
Response via : Initial Calibration



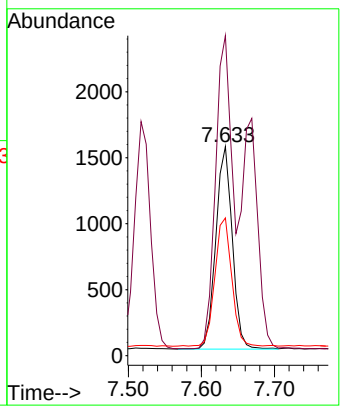


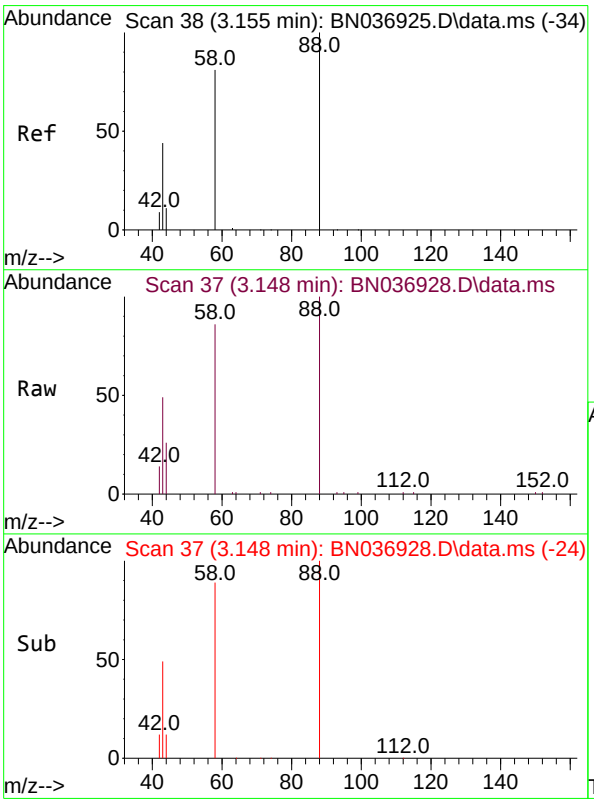
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.633 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:152 Resp: 2400

Ion	Ratio	Lower	Upper
152	100		
150	153.0	121.1	181.7
115	65.9	51.8	77.6

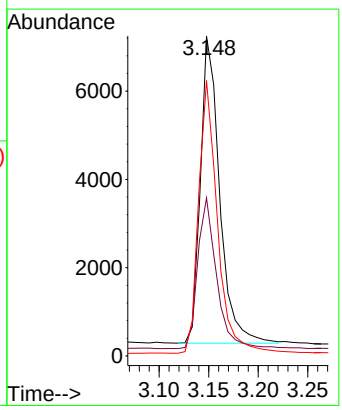


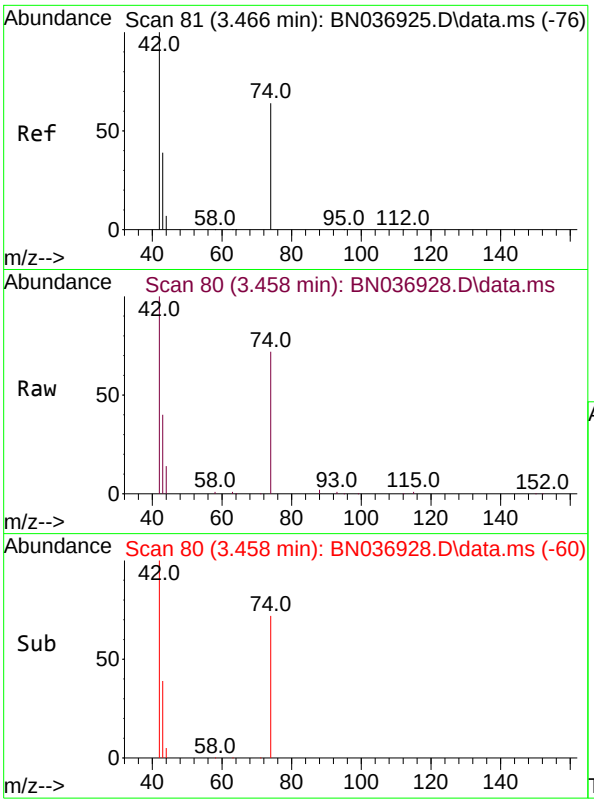


#2
1,4-Dioxane
Concen: 3.096 ng
RT: 3.148 min Scan# 37
Delta R.T. -0.007 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

Tgt Ion: 88 Resp: 9383

Ion	Ratio	Lower	Upper
88	100		
43	48.3	37.9	56.9
58	87.1	65.8	98.6



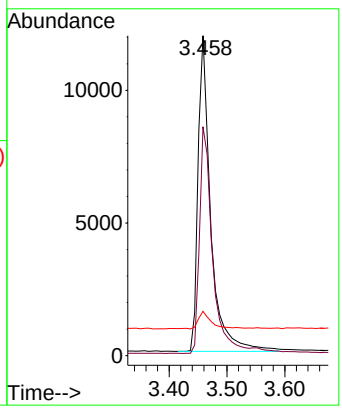


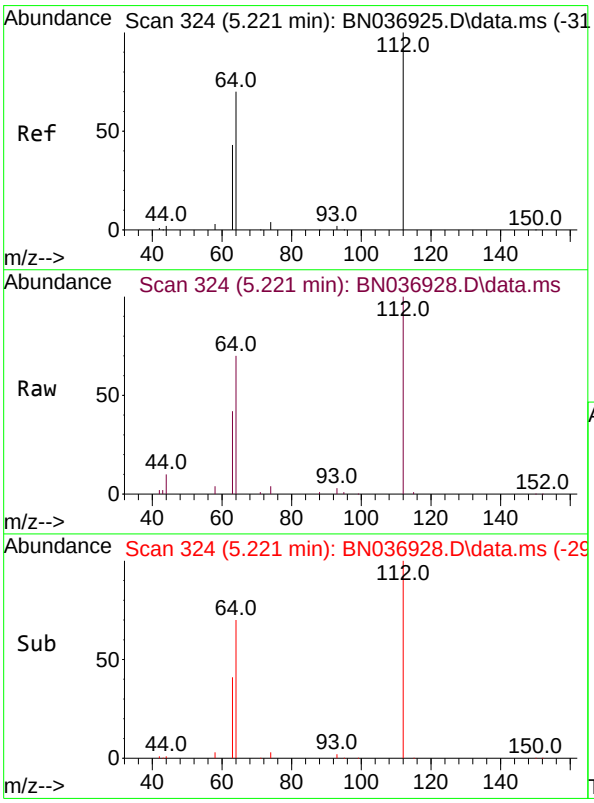
#3
n-Nitrosodimethylamine
Concen: 3.122 ng
RT: 3.458 min Scan# 8
Delta R.T. -0.007 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion: 42 Resp: 18278

Ion	Ratio	Lower	Upper
42	100		
74	74.8	59.9	89.9
44	5.4	7.5	11.3#

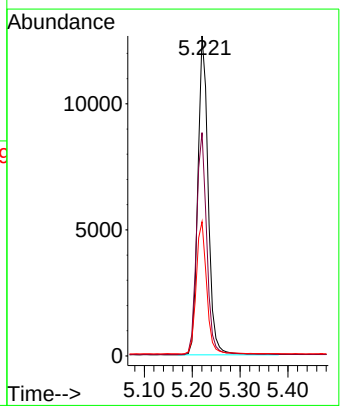


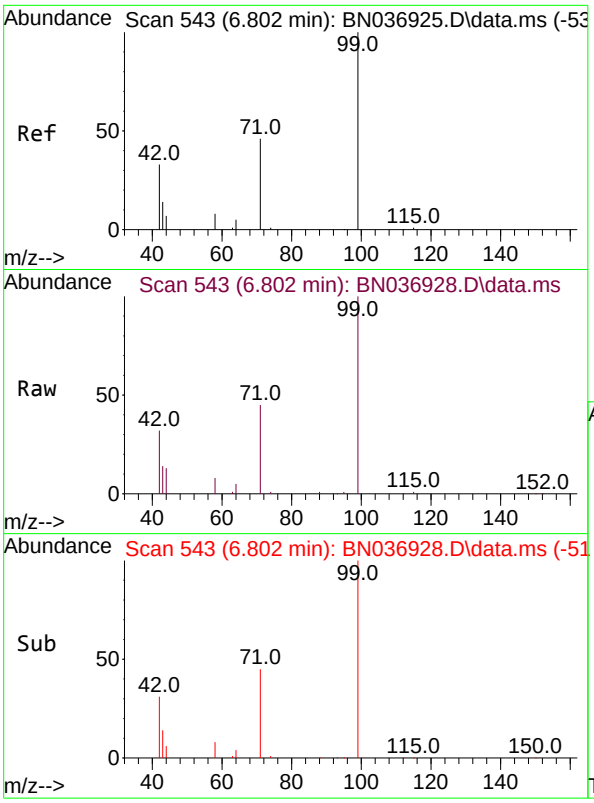


#4
2-Fluorophenol
Concen: 3.045 ng
RT: 5.221 min Scan# 324
Delta R.T. 0.000 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

Tgt Ion:112 Resp: 18856

Ion	Ratio	Lower	Upper
112	100		
64	69.6	55.7	83.5
63	42.0	33.9	50.9



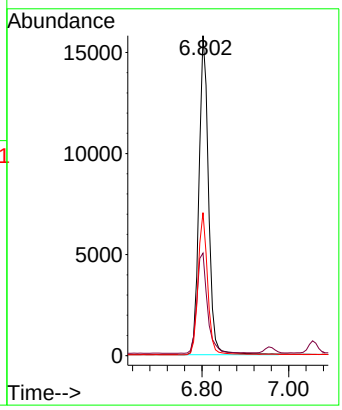


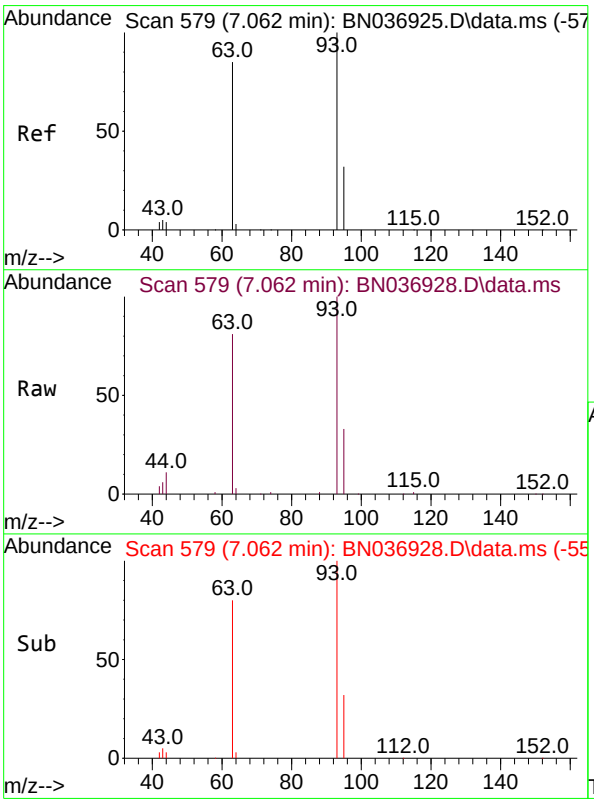
#5
Phenol-d6
Concen: 3.194 ng
RT: 6.802 min Scan# 54
Delta R.T. 0.000 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion: 99 Resp: 24093

Ion	Ratio	Lower	Upper
99	100		
42	35.0	29.6	44.4
71	44.3	36.0	54.0

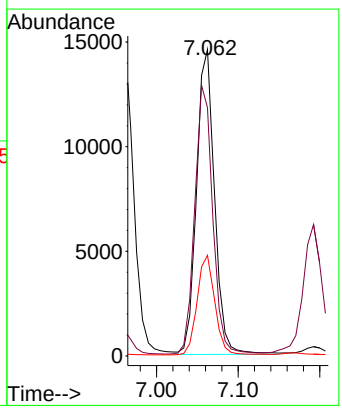


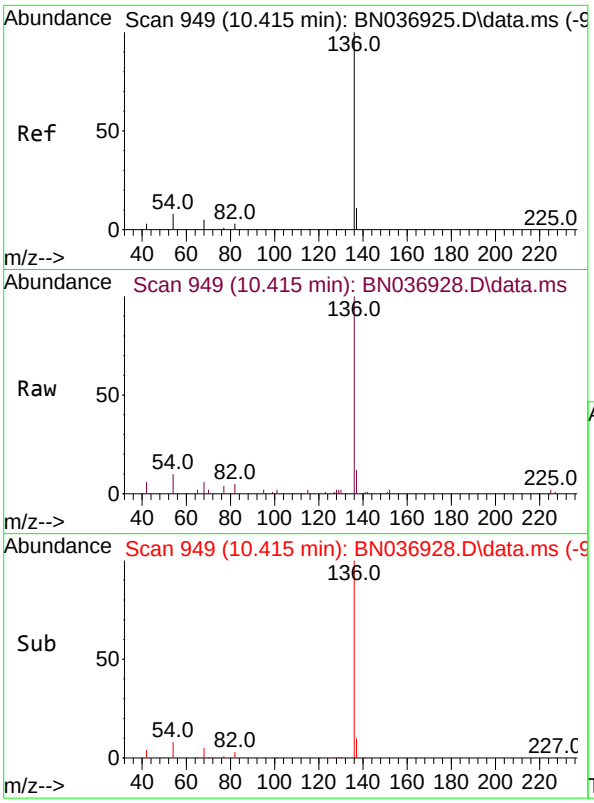


#6
bis(2-Chloroethyl)ether
Concen: 3.183 ng
RT: 7.062 min Scan# 579
Delta R.T. 0.000 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

Tgt Ion: 93 Resp: 22311

Ion	Ratio	Lower	Upper
93	100		
63	87.8	69.0	103.6
95	32.2	25.4	38.0



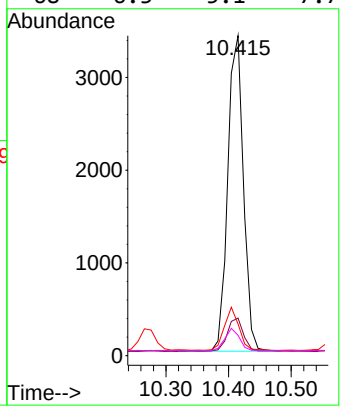


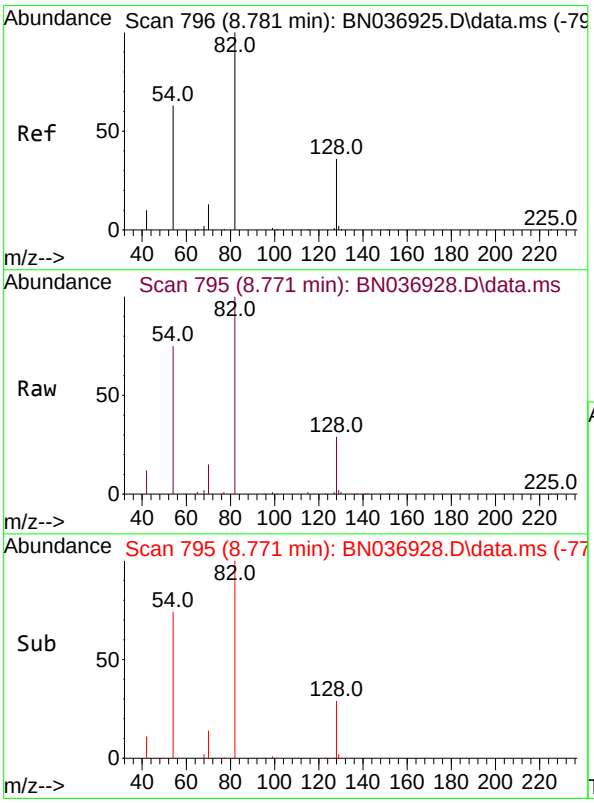
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.415 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:136 Resp: 5910

Ion	Ratio	Lower	Upper
136	100		
137	11.7	9.7	14.5
54	9.9	8.0	12.0
68	6.3	5.1	7.7

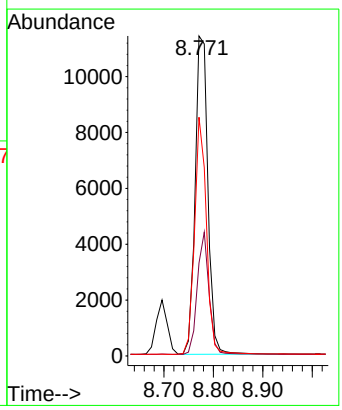


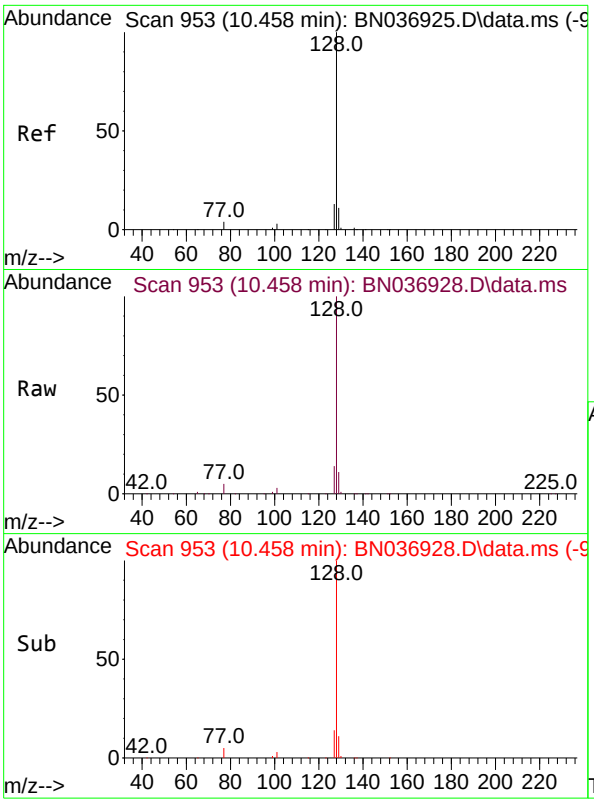


#8
Nitrobenzene-d5
Concen: 3.326 ng
RT: 8.771 min Scan# 795
Delta R.T. -0.011 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

Tgt Ion: 82 Resp: 20418

Ion	Ratio	Lower	Upper
82	100		
128	29.1	30.7	46.1#
54	74.6	52.1	78.1



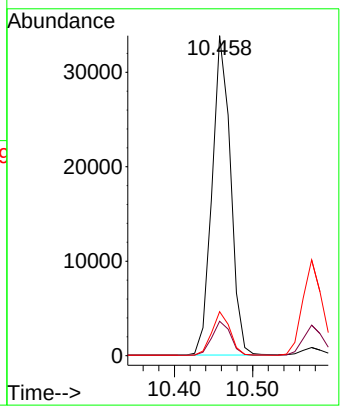


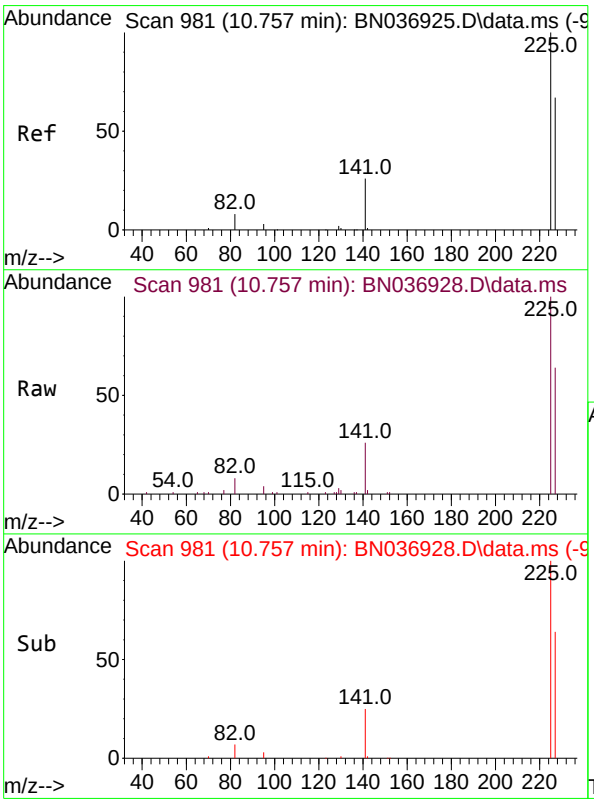
#9
Naphthalene
Concen: 3.217 ng
RT: 10.458 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:128 Resp: 55337

Ion	Ratio	Lower	Upper
128	100		
129	10.8	9.8	14.6
127	13.8	11.4	17.2

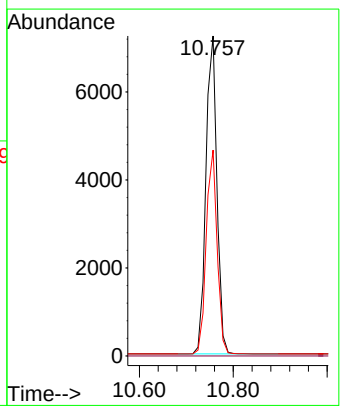


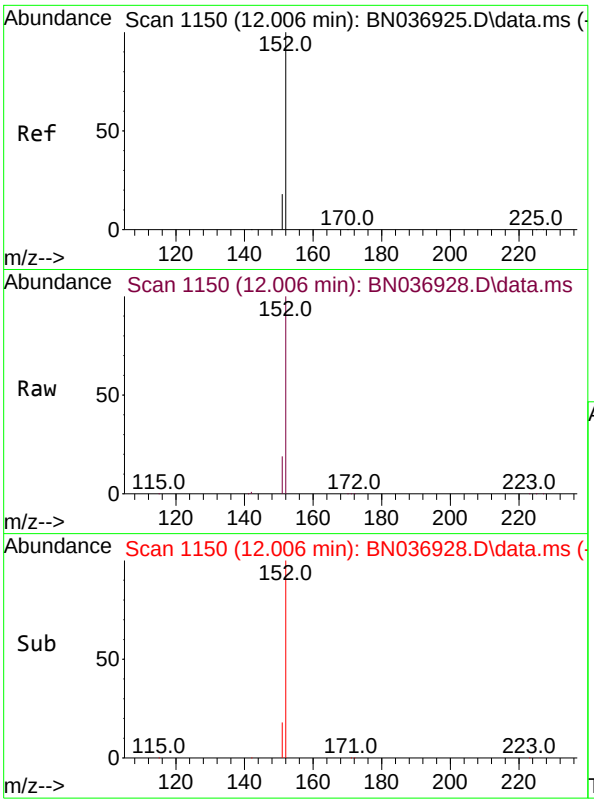


#10
Hexachlorobutadiene
Concen: 3.121 ng
RT: 10.757 min Scan# 981
Delta R.T. 0.000 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

Tgt Ion:225 Resp: 11705

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.5	52.2	78.4



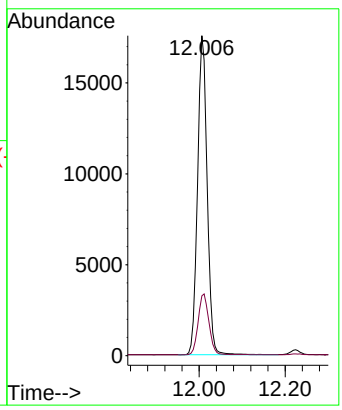


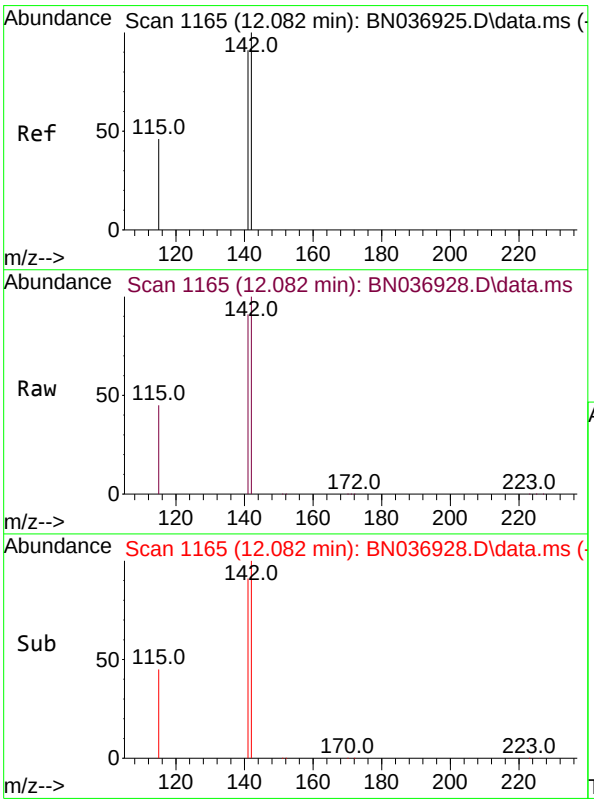
#11
2-Methylnaphthalene-d10
Concen: 3.319 ng
RT: 12.006 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:152 Resp: 27198

Ion	Ratio	Lower	Upper
152	100		
151	21.3	16.9	25.3

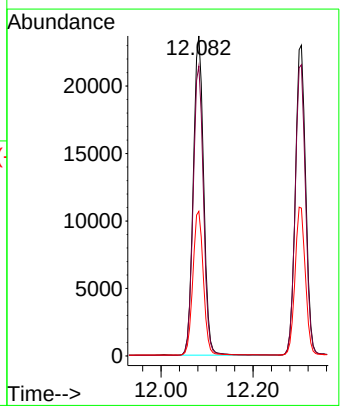


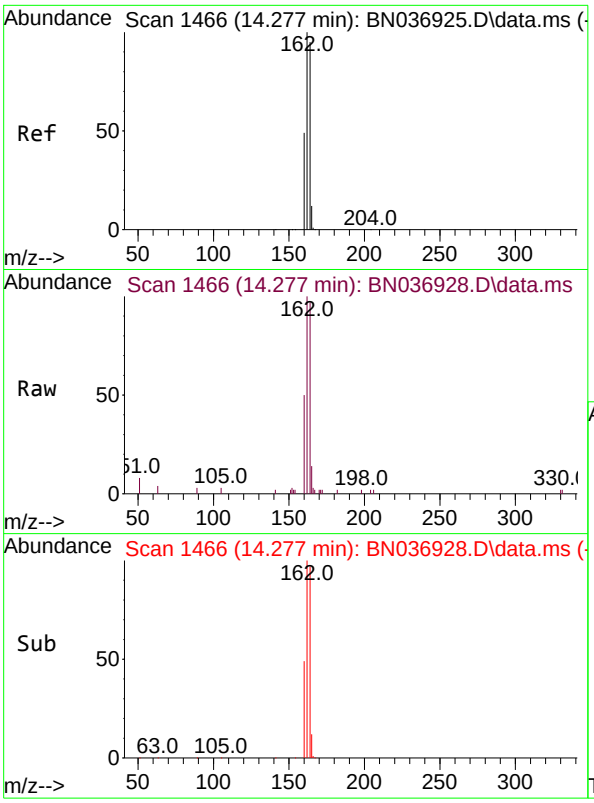


#12
2-Methylnaphthalene
Concen: 3.361 ng
RT: 12.082 min Scan# 1165
Delta R.T. 0.000 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

Tgt Ion:142 Resp: 36995

Ion	Ratio	Lower	Upper
142	100		
141	90.6	72.8	109.2
115	45.2	38.2	57.4



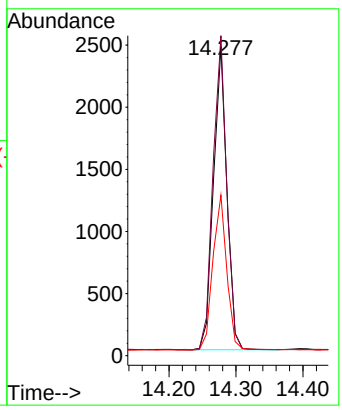


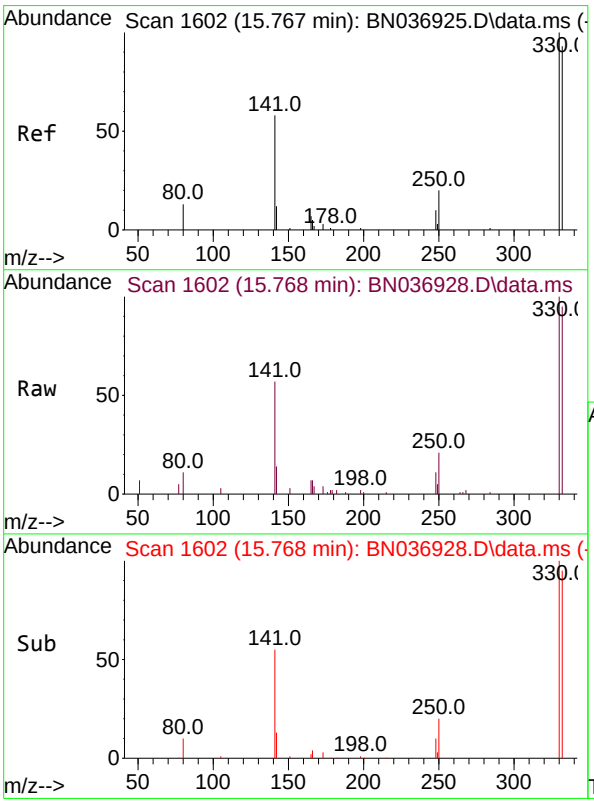
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.277 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:164 Resp: 3394

Ion	Ratio	Lower	Upper
164	100		
162	103.5	83.8	125.8
160	51.9	42.0	63.0

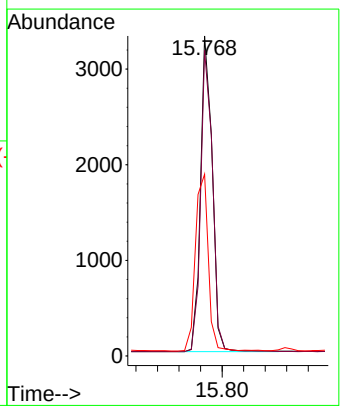


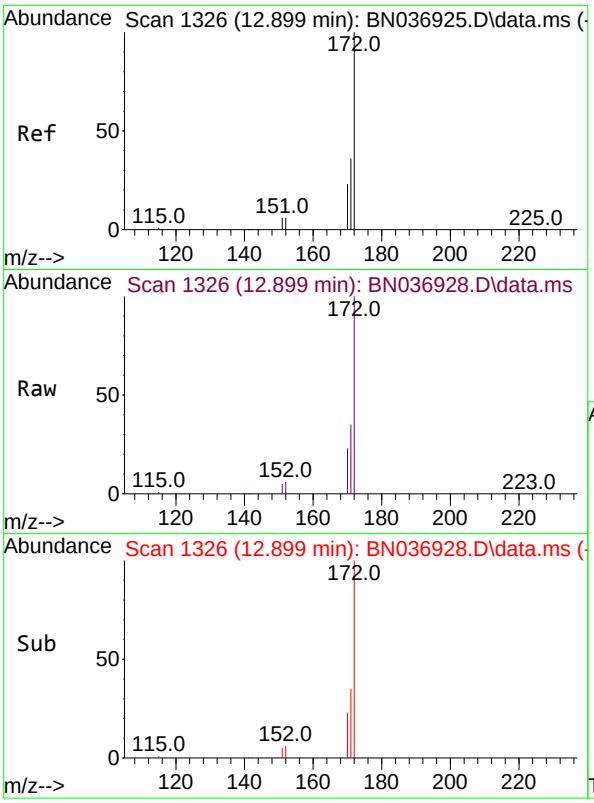


#14
2,4,6-Tribromophenol
Concen: 3.360 ng
RT: 15.768 min Scan# 1602
Delta R.T. 0.000 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

Tgt Ion:330 Resp: 4998

Ion	Ratio	Lower	Upper
330	100		
332	96.6	76.3	114.5
141	61.6	45.4	68.2



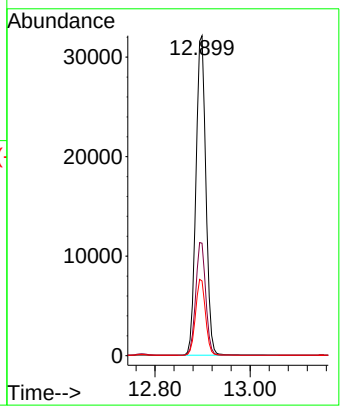


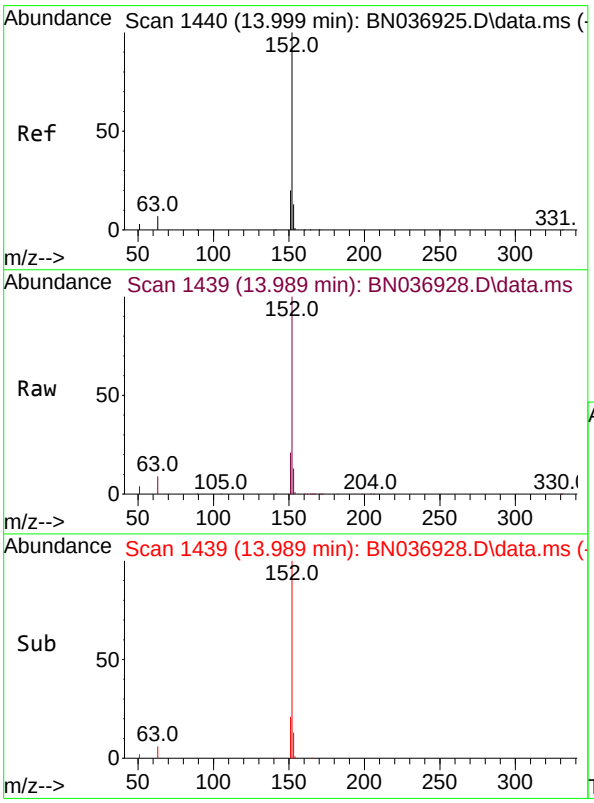
#15
2-Fluorobiphenyl
Concen: 3.285 ng
RT: 12.899 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:172 Resp: 53914

Ion	Ratio	Lower	Upper
172	100		
171	35.2	29.4	44.0
170	23.4	19.4	29.0

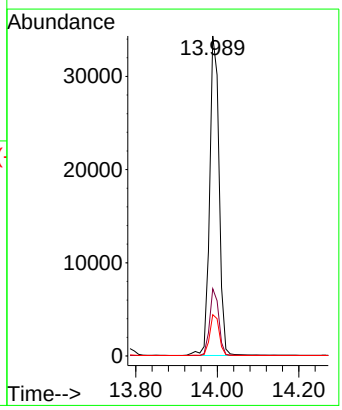


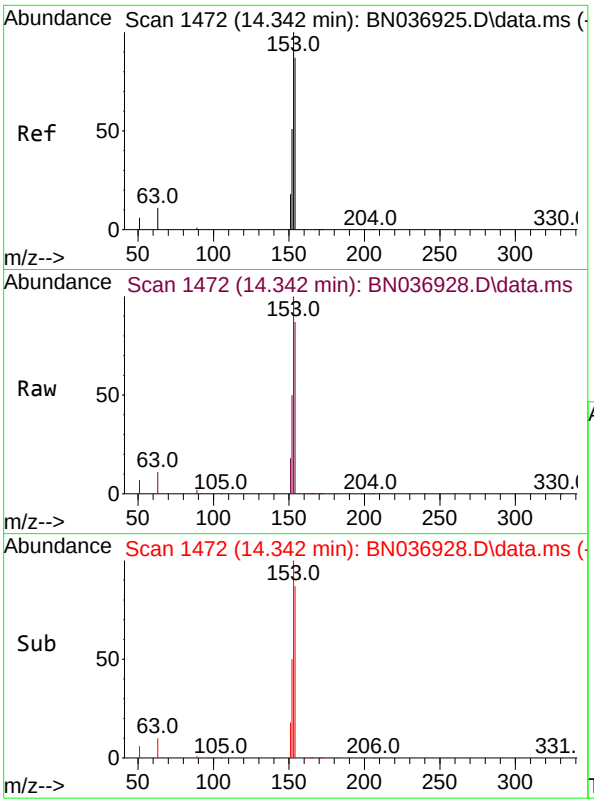


#16
Acenaphthylene
Concen: 3.362 ng
RT: 13.989 min Scan# 1439
Delta R.T. -0.011 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

Tgt Ion:152 Resp: 55247

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.0	24.0
153	12.8	10.2	15.2



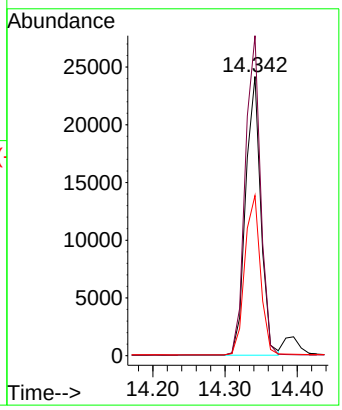


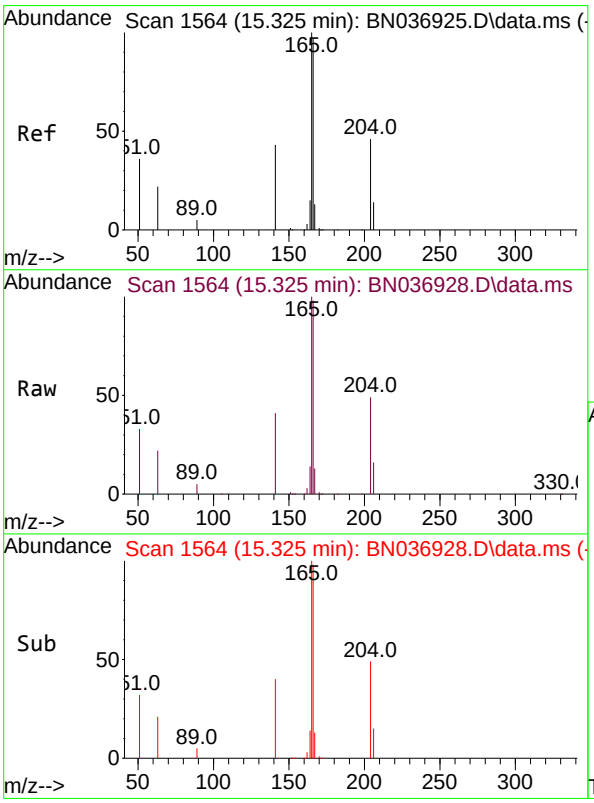
#17
Acenaphthene
Concen: 3.236 ng
RT: 14.342 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:154 Resp: 35171

Ion	Ratio	Lower	Upper
154	100		
153	115.7	93.4	140.2
152	59.7	49.5	74.3

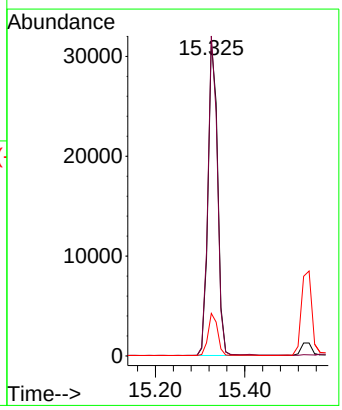


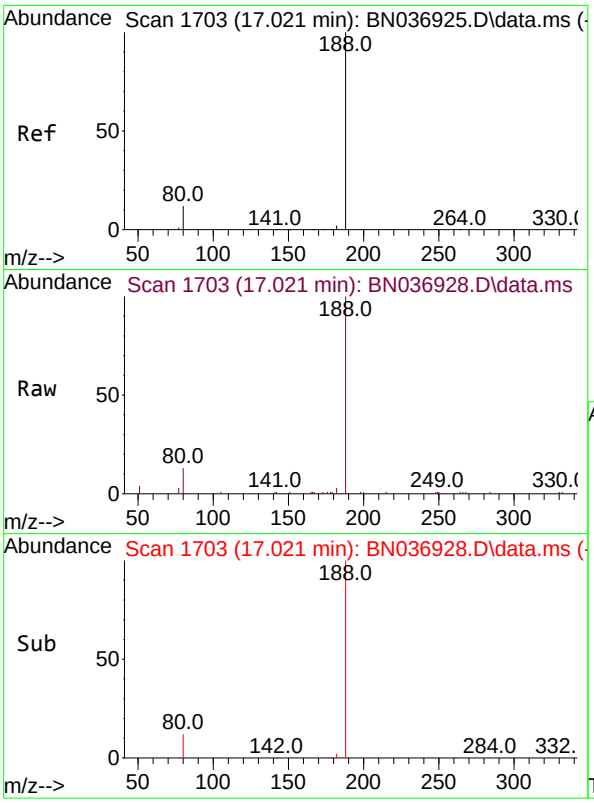


#18
Fluorene
Concen: 3.301 ng
RT: 15.325 min Scan# 1564
Delta R.T. 0.000 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

Tgt Ion:166 Resp: 46714

Ion	Ratio	Lower	Upper
166	100		
165	99.7	80.8	121.2
167	13.3	10.8	16.2



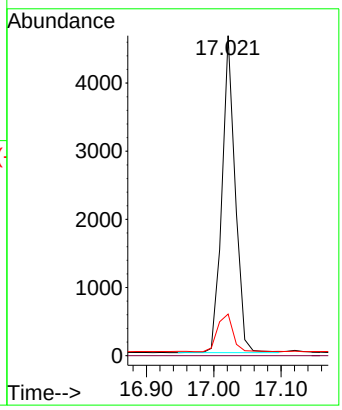


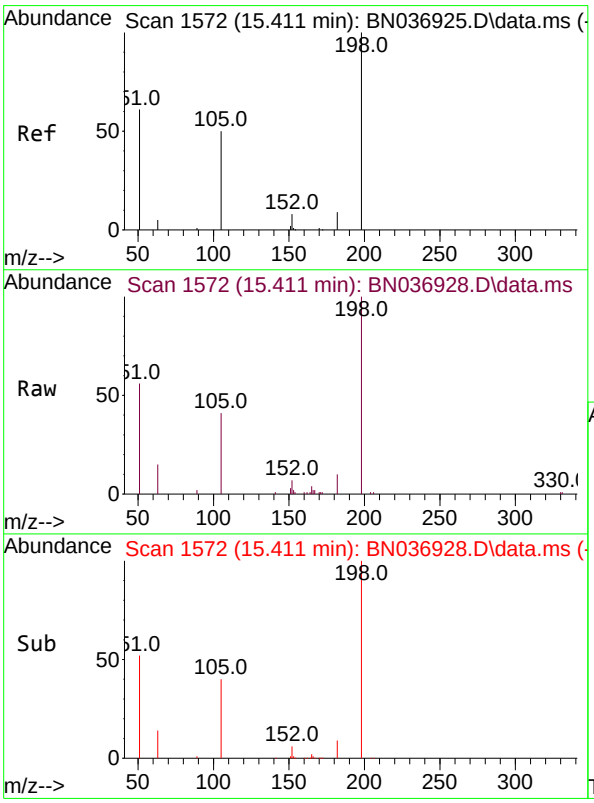
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.021 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:188 Resp: 6361

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	13.0	10.7	16.1

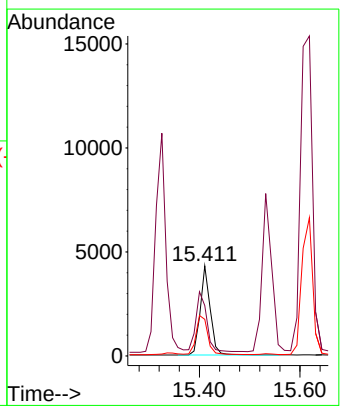


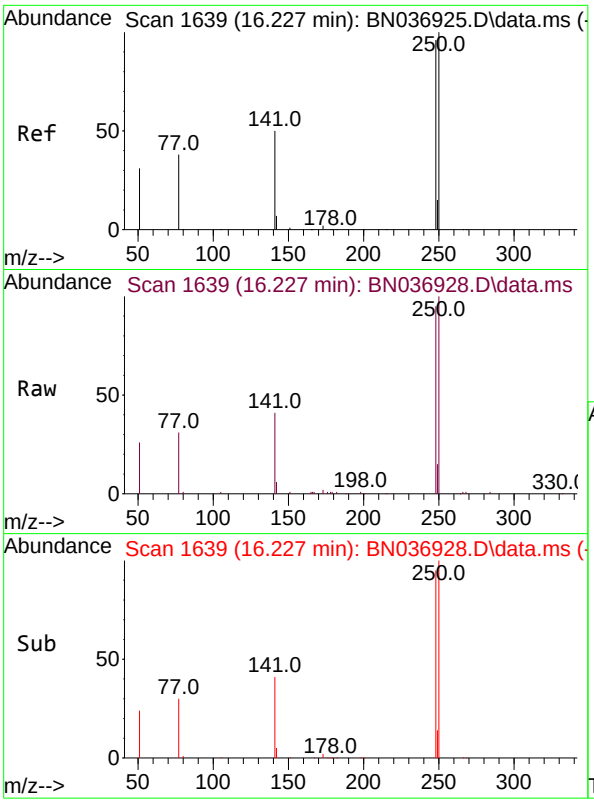


#20
4,6-Dinitro-2-methylphenol
Concen: 3.823 ng
RT: 15.411 min Scan# 1572
Delta R.T. -0.000 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

Tgt Ion:198 Resp: 6093

Ion	Ratio	Lower	Upper
198	100		
51	56.0	97.9	146.9#
105	40.7	50.0	75.0#



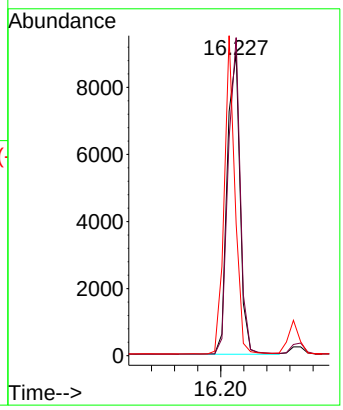


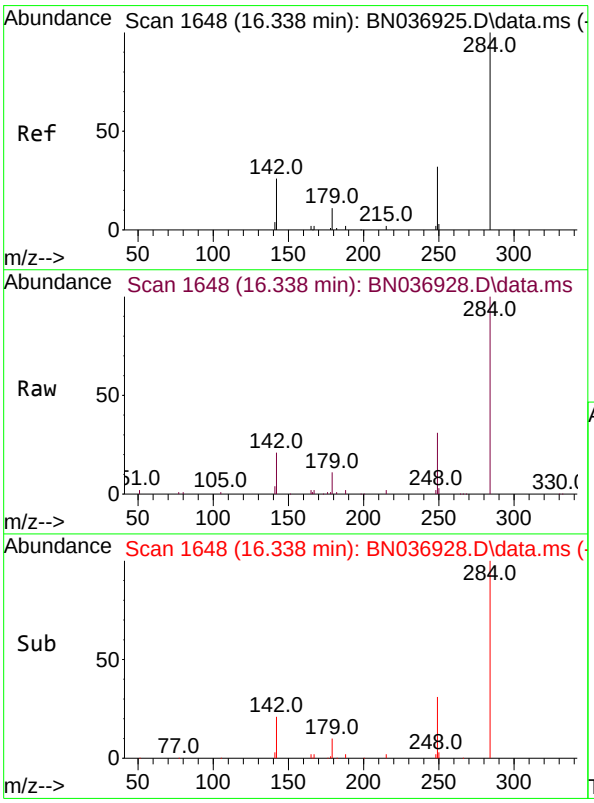
#21
4-Bromophenyl-phenylether
Concen: 3.266 ng
RT: 16.227 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:248 Resp: 13834

Ion	Ratio	Lower	Upper
248	100		
250	105.4	83.7	125.5
141	43.6	43.8	65.8#

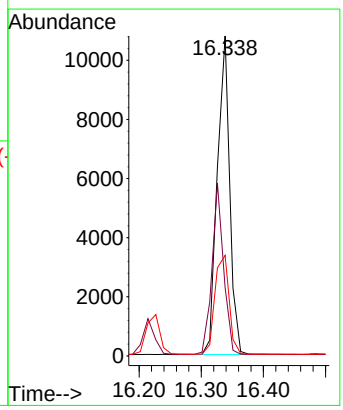


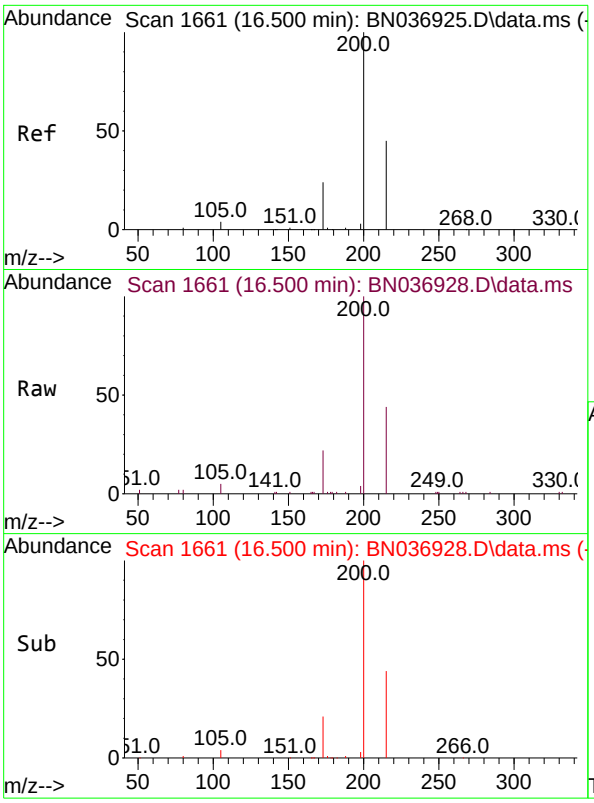


#22
Hexachlorobenzene
Concen: 3.181 ng
RT: 16.338 min Scan# 1648
Delta R.T. 0.000 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

Tgt Ion:284 Resp: 14891

Ion	Ratio	Lower	Upper
284	100		
142	50.5	40.0	60.0
249	35.8	28.2	42.2



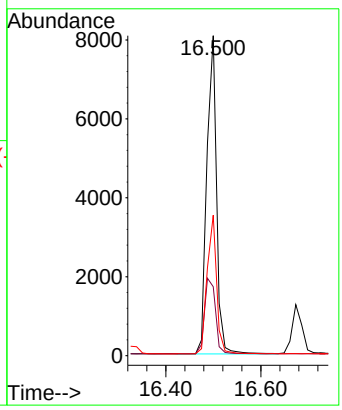


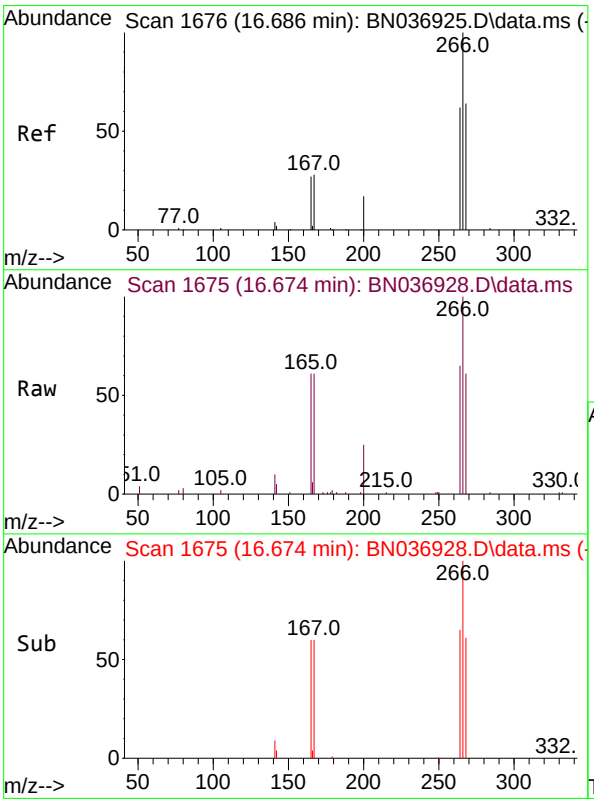
#23
Atrazine
Concen: 3.449 ng
RT: 16.500 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:200 Resp: 11521

Ion	Ratio	Lower	Upper
200	100		
173	21.6	22.4	33.6#
215	43.9	38.6	57.8

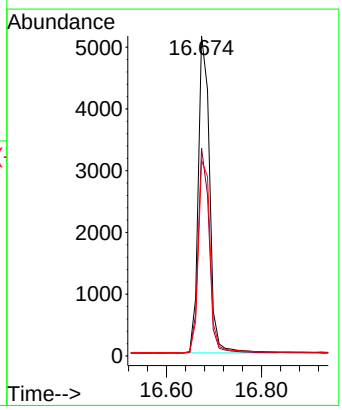


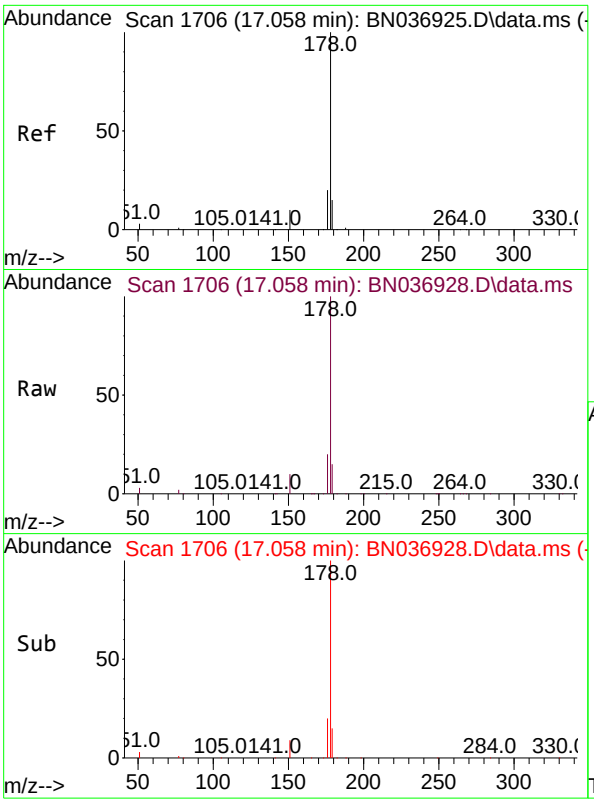


#24
Pentachlorophenol
Concen: 3.511 ng
RT: 16.674 min Scan# 1675
Delta R.T. -0.012 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

Tgt Ion:266 Resp: 8528

Ion	Ratio	Lower	Upper
266	100		
264	62.8	49.9	74.9
268	63.7	52.2	78.4



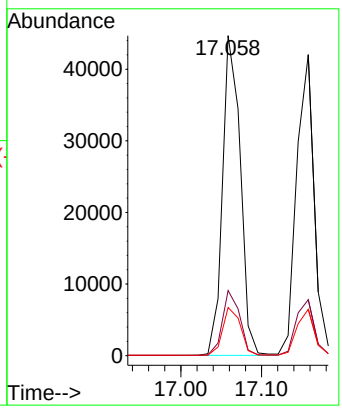


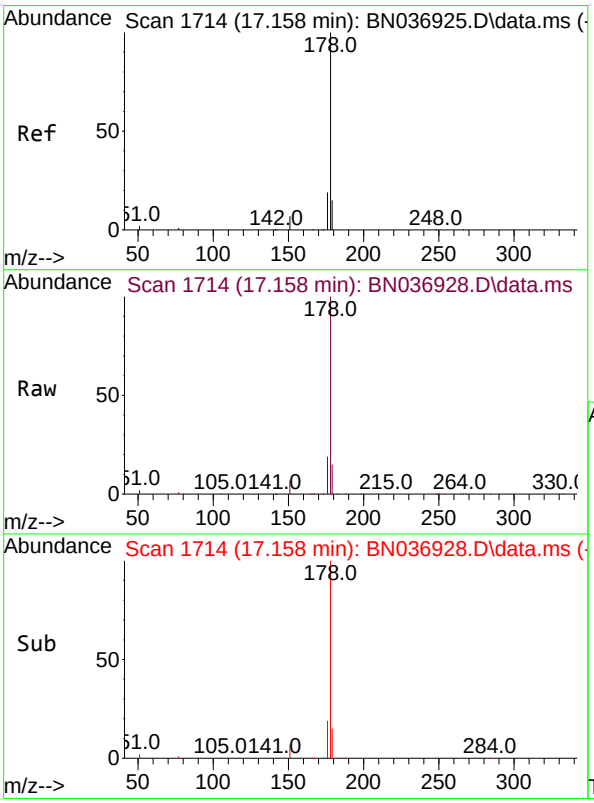
#25
Phenanthrene
Concen: 3.273 ng
RT: 17.058 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:178 Resp: 68482

Ion	Ratio	Lower	Upper
178	100		
176	19.8	15.7	23.5
179	15.1	12.4	18.6

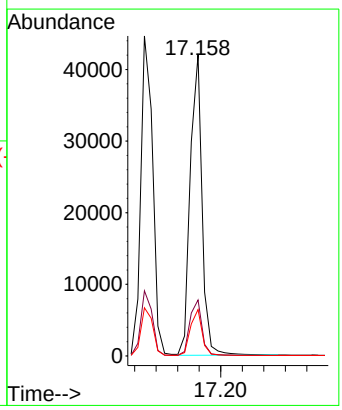


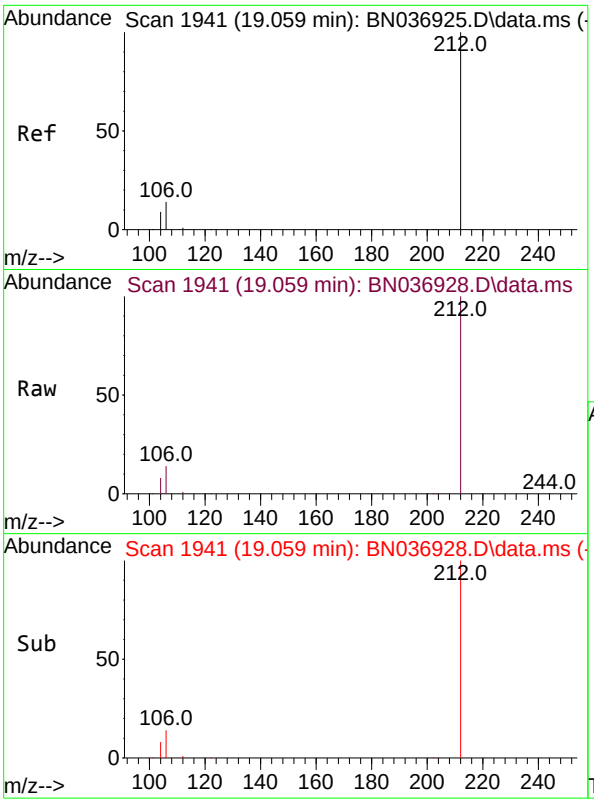


#26
Anthracene
Concen: 3.430 ng
RT: 17.158 min Scan# 1714
Delta R.T. 0.000 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

Tgt Ion:178 Resp: 64181

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.3	22.9
179	15.2	12.1	18.1



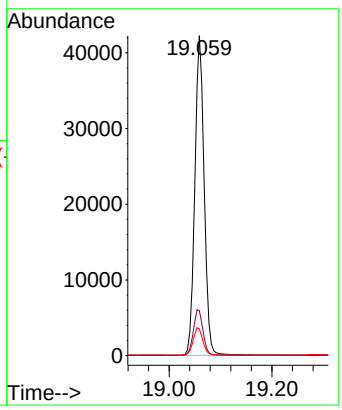


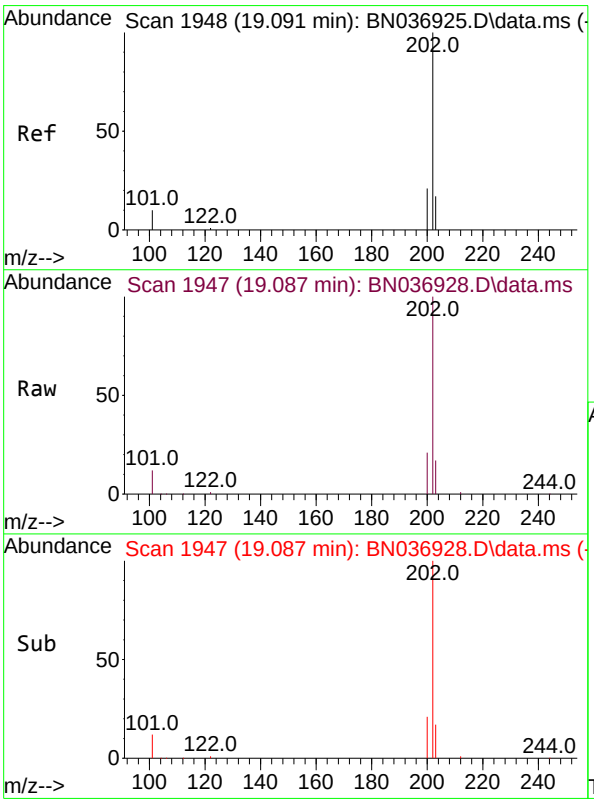
#27
Fluoranthene-d10
Concen: 3.290 ng
RT: 19.059 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:212 Resp: 53576

Ion	Ratio	Lower	Upper
212	100		
106	14.7	11.6	17.4
104	8.8	7.0	10.4

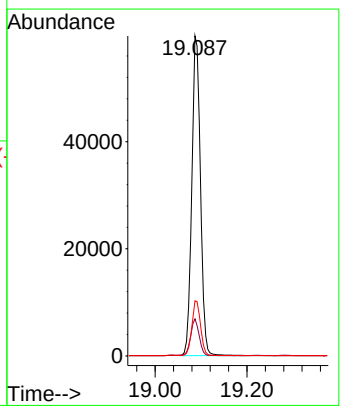


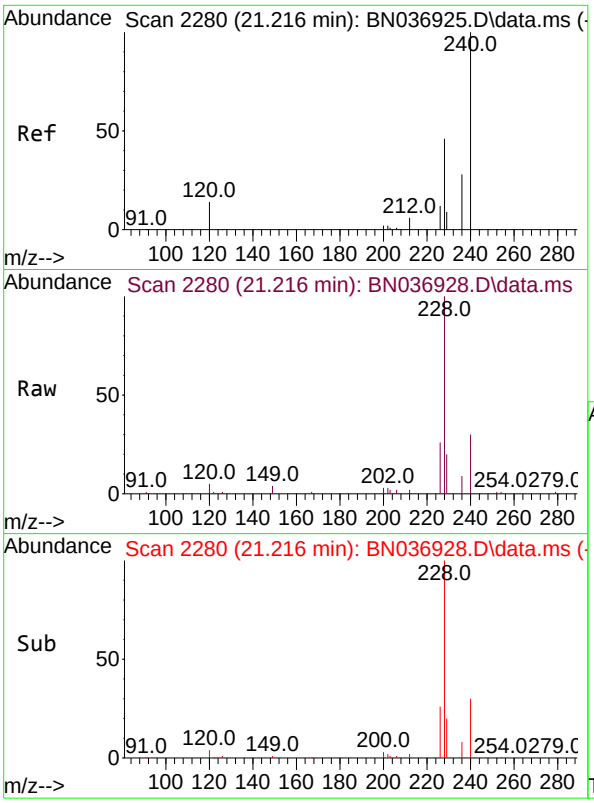


#28
Fluoranthene
Concen: 3.358 ng
RT: 19.087 min Scan# 1947
Delta R.T. -0.005 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

Tgt Ion:202 Resp: 77836

Ion	Ratio	Lower	Upper
202	100		
101	11.5	8.5	12.7
203	17.2	13.7	20.5



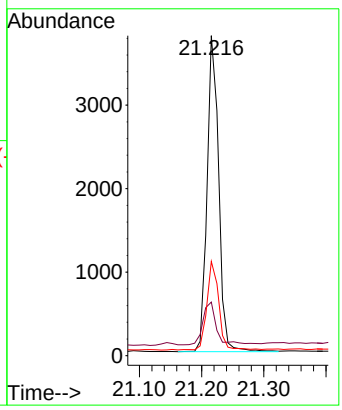


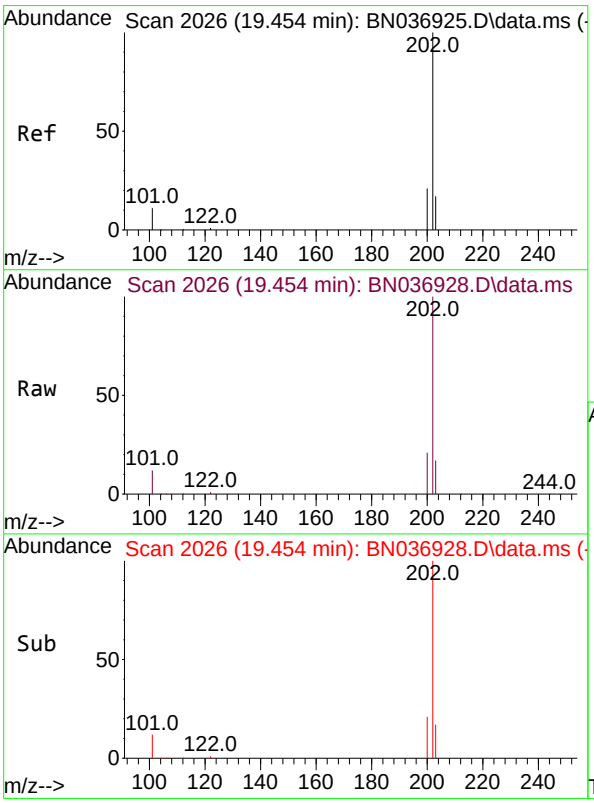
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.216 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:240 Resp: 4896

Ion	Ratio	Lower	Upper
240	100		
120	16.7	14.1	21.1
236	29.5	23.8	35.8

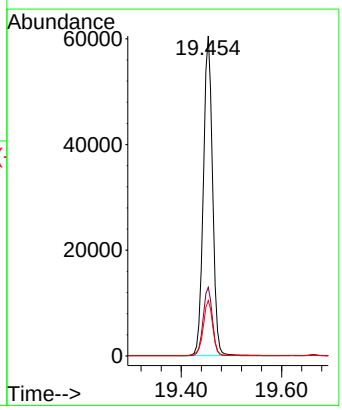


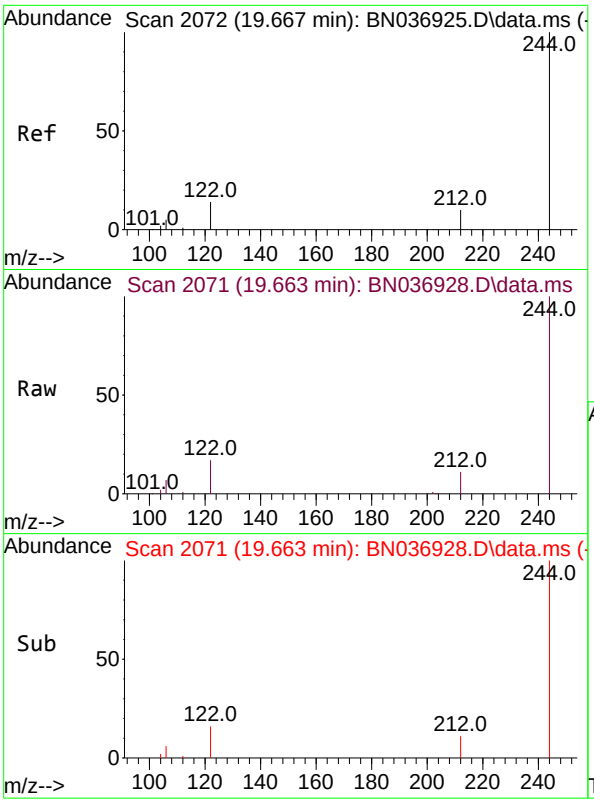


#30
Pyrene
Concen: 3.241 ng
RT: 19.454 min Scan# 2026
Delta R.T. 0.000 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

Tgt Ion:202 Resp: 77117

Ion	Ratio	Lower	Upper
202	100		
200	21.5	17.0	25.6
203	17.7	14.0	21.0



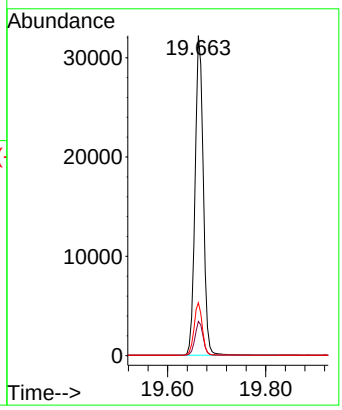


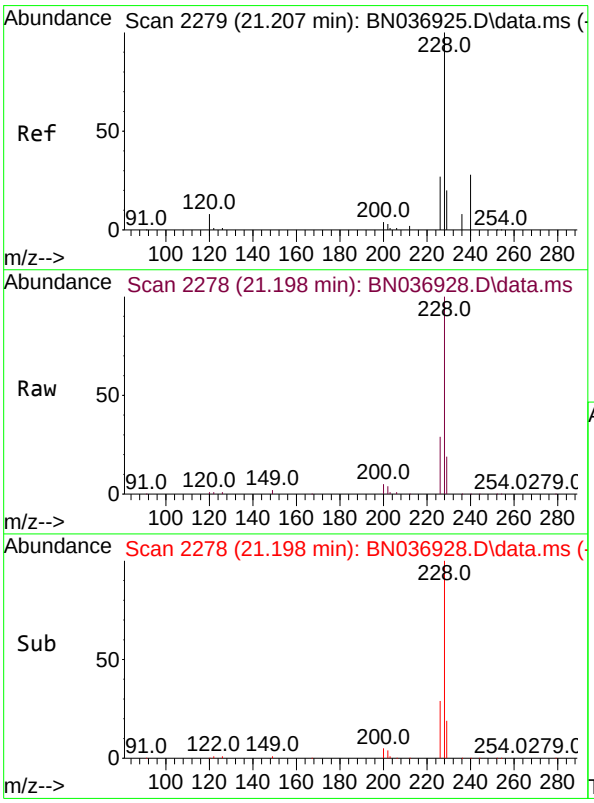
#31
Terphenyl-d14
Concen: 3.200 ng
RT: 19.663 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:244 Resp: 37287

Ion	Ratio	Lower	Upper
244	100		
212	10.7	9.6	14.4
122	16.5	12.7	19.1

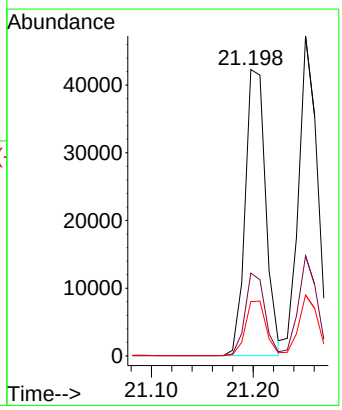


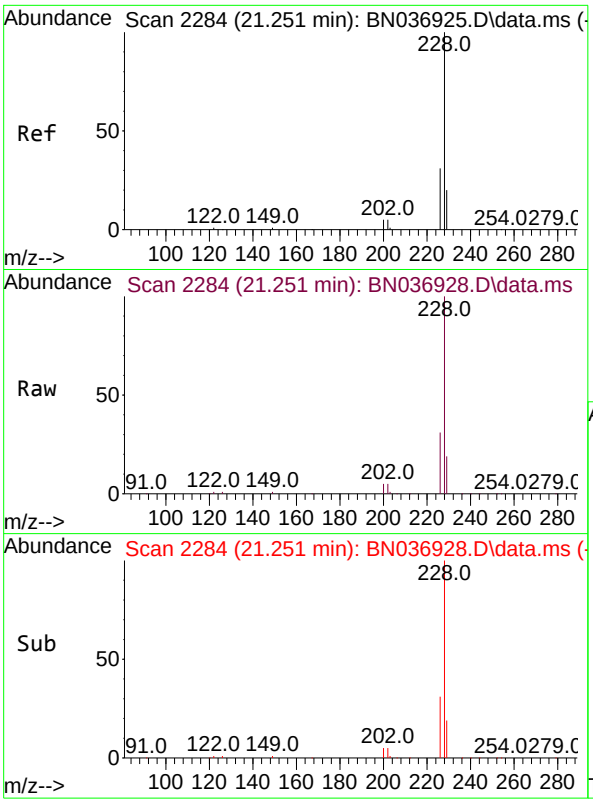


#32
Benzo(a)anthracene
Concen: 3.310 ng
RT: 21.198 min Scan# 2278
Delta R.T. -0.009 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

Tgt Ion:228 Resp: 59092

Ion	Ratio	Lower	Upper
228	100		
226	29.0	22.2	33.4
229	19.0	16.4	24.6



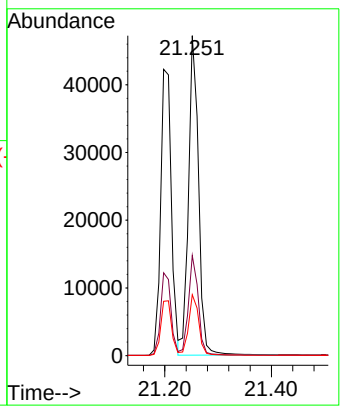


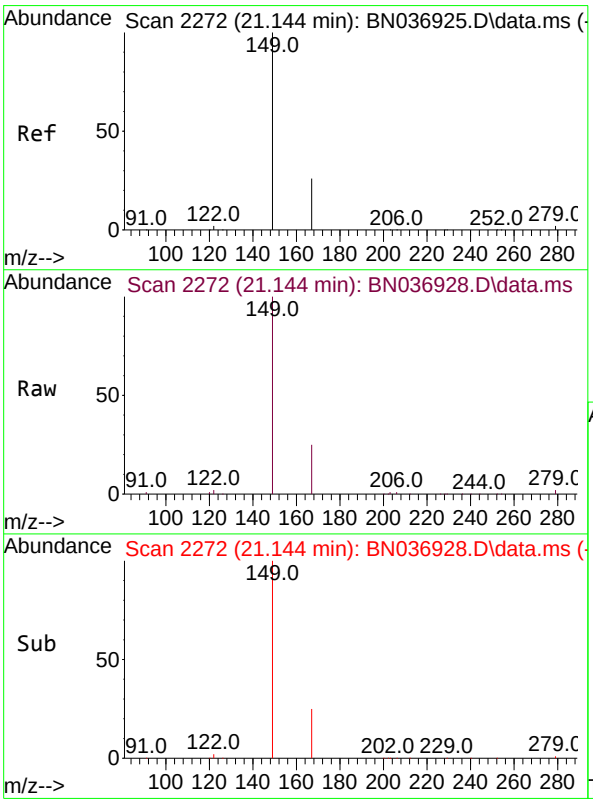
#33
Chrysene
Concen: 3.149 ng
RT: 21.251 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:228 Resp: 61582

Ion	Ratio	Lower	Upper
228	100		
226	31.3	25.5	38.3
229	19.1	16.5	24.7

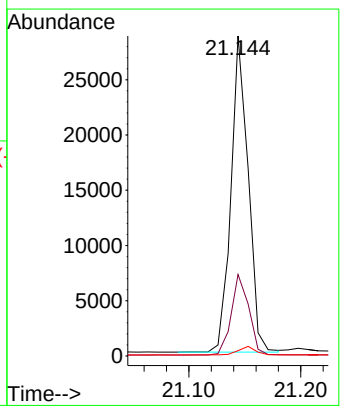


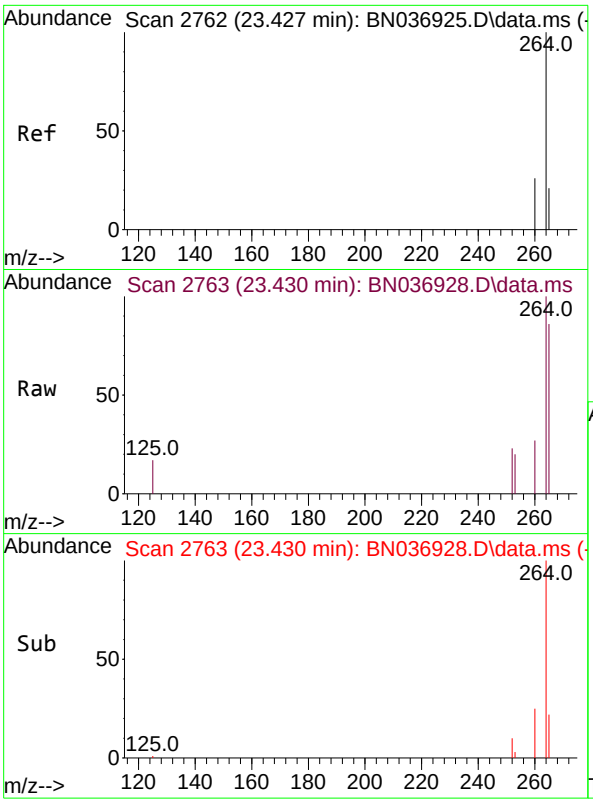


#34
Bis(2-ethylhexyl)phthalate
Concen: 3.002 ng
RT: 21.144 min Scan# 2272
Delta R.T. 0.000 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

Tgt Ion:149 Resp: 30625

Ion	Ratio	Lower	Upper
149	100		
167	26.0	21.0	31.6
279	2.7	2.7	4.1#



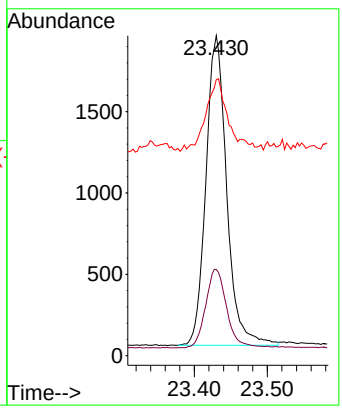


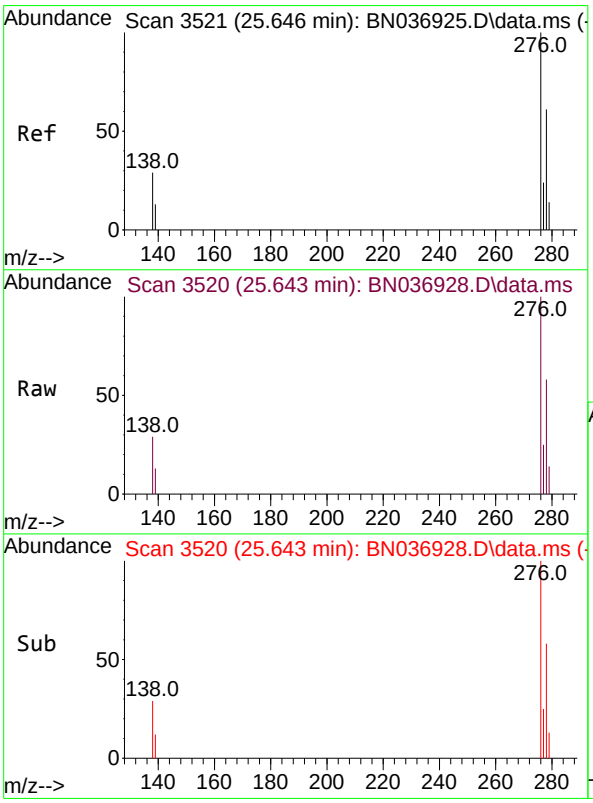
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.430 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:264 Resp: 3763

Ion	Ratio	Lower	Upper
264	100		
260	26.9	22.2	33.2
265	86.3	65.8	98.6

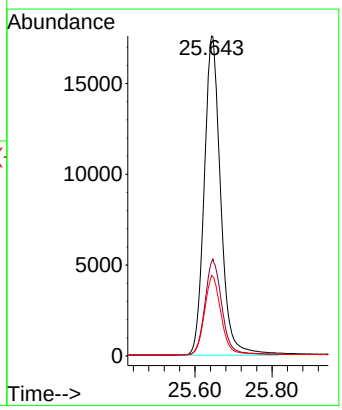


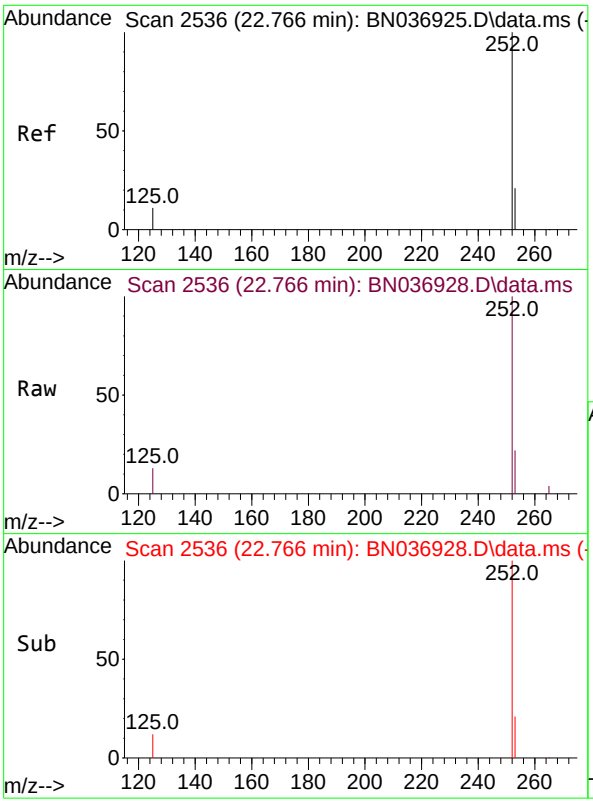


#36
Indeno(1,2,3-cd)pyrene
Concen: 3.369 ng
RT: 25.643 min Scan# 3520
Delta R.T. -0.003 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

Tgt Ion:276 Resp: 51906

Ion	Ratio	Lower	Upper
276	100		
138	30.7	23.0	34.6
277	25.1	20.0	30.0



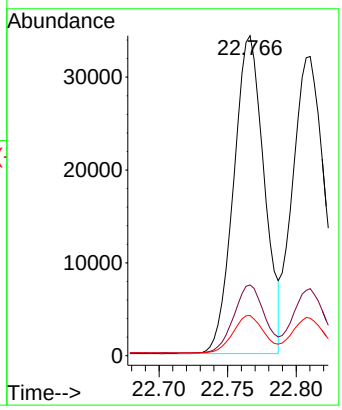


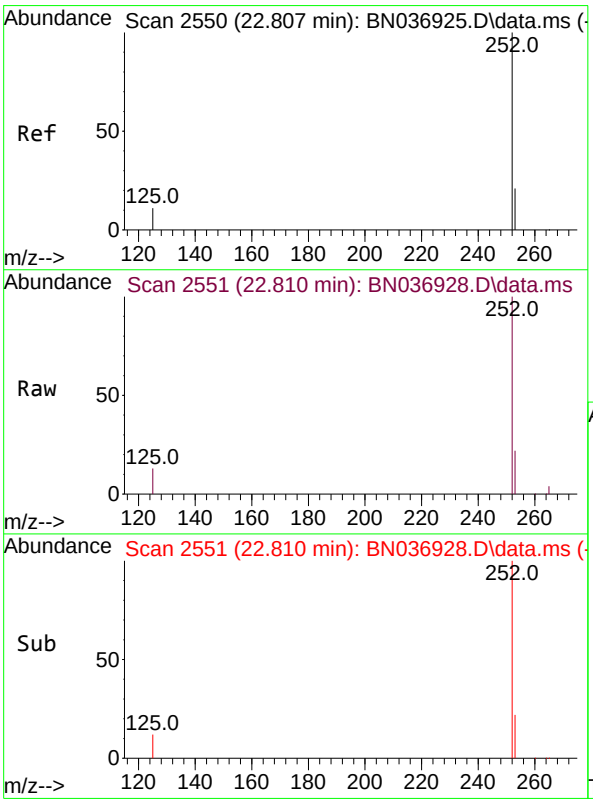
#37
Benzo(b)fluoranthene
Concen: 3.393 ng
RT: 22.766 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:252 Resp: 52921

Ion	Ratio	Lower	Upper
252	100		
253	22.1	22.1	33.1
125	12.6	14.2	21.2#

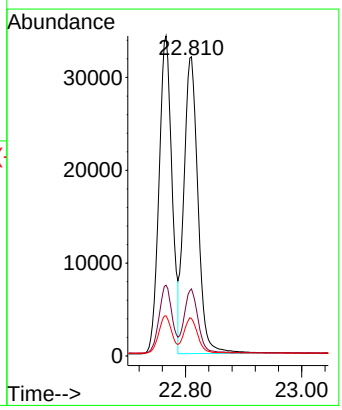


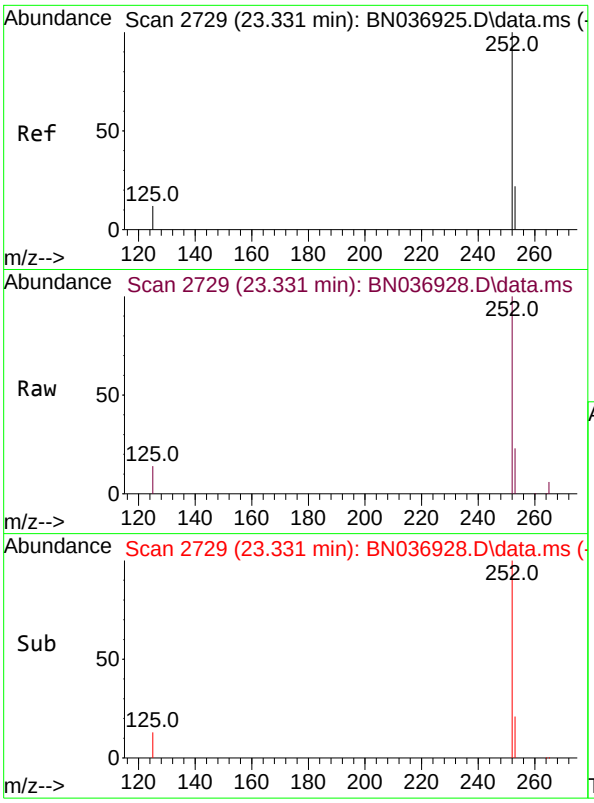


#38
Benzo(k)fluoranthene
Concen: 3.406 ng
RT: 22.810 min Scan# 2551
Delta R.T. 0.003 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

Tgt Ion:252 Resp: 53706

Ion	Ratio	Lower	Upper
252	100		
253	22.4	22.8	34.2#
125	12.5	14.2	21.2#



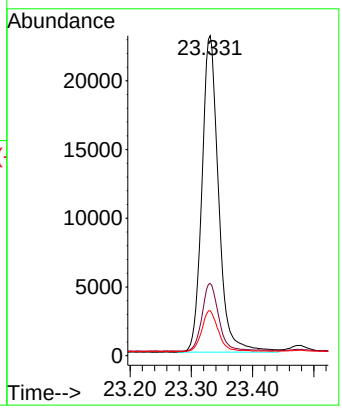


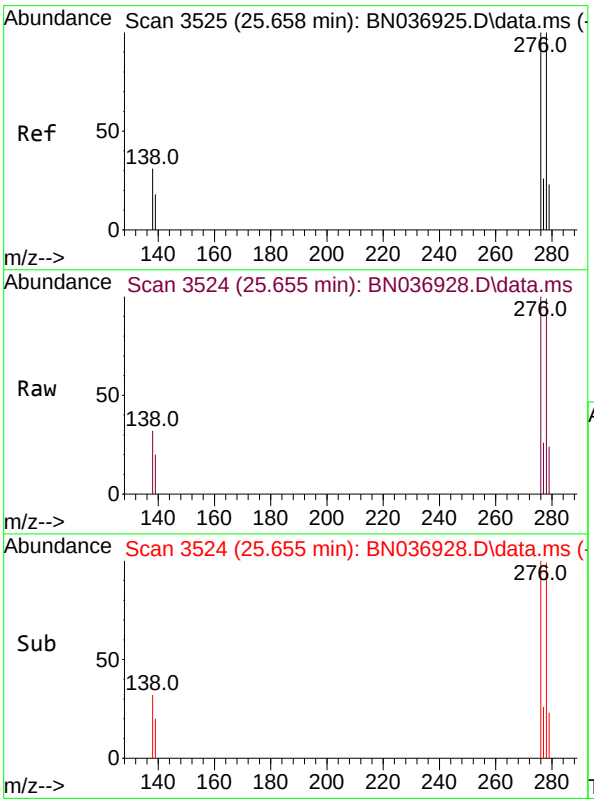
#39
Benzo(a)pyrene
Concen: 3.387 ng
RT: 23.331 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:252 Resp: 43554

Ion	Ratio	Lower	Upper
252	100		
253	22.6	25.9	38.9#
125	14.1	17.4	26.0#

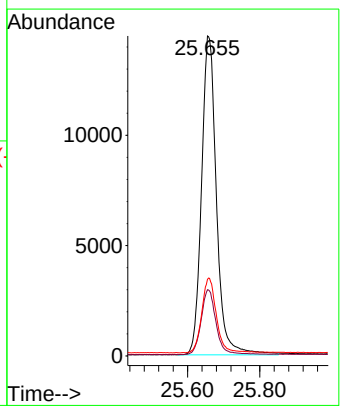


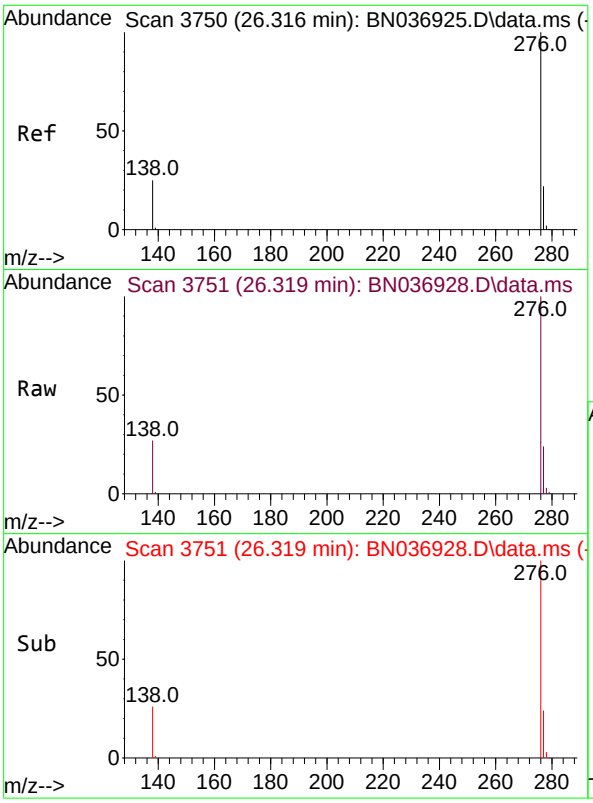


#40
Dibenzo(a,h)anthracene
Concen: 3.423 ng
RT: 25.655 min Scan# 3524
Delta R.T. -0.003 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

Tgt Ion:278 Resp: 41500

Ion	Ratio	Lower	Upper
278	100		
139	20.7	17.4	26.2
279	23.9	24.9	37.3#



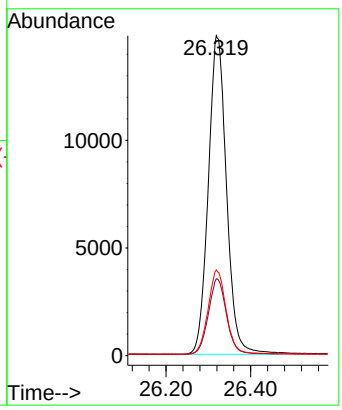


#41
Benzo(g,h,i)perylene
Concen: 3.263 ng
RT: 26.319 min Scan# 3
Delta R.T. 0.003 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:276 Resp: 44250

Ion	Ratio	Lower	Upper
276	100		
277	24.0	20.2	30.2
138	26.8	21.9	32.9



Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042825\
Data File : BN036929.D
Acq On : 28 Apr 2025 15:12
Operator : RC/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Quant Time: Apr 28 15:34:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:18:01 2025
Response via : Initial Calibration

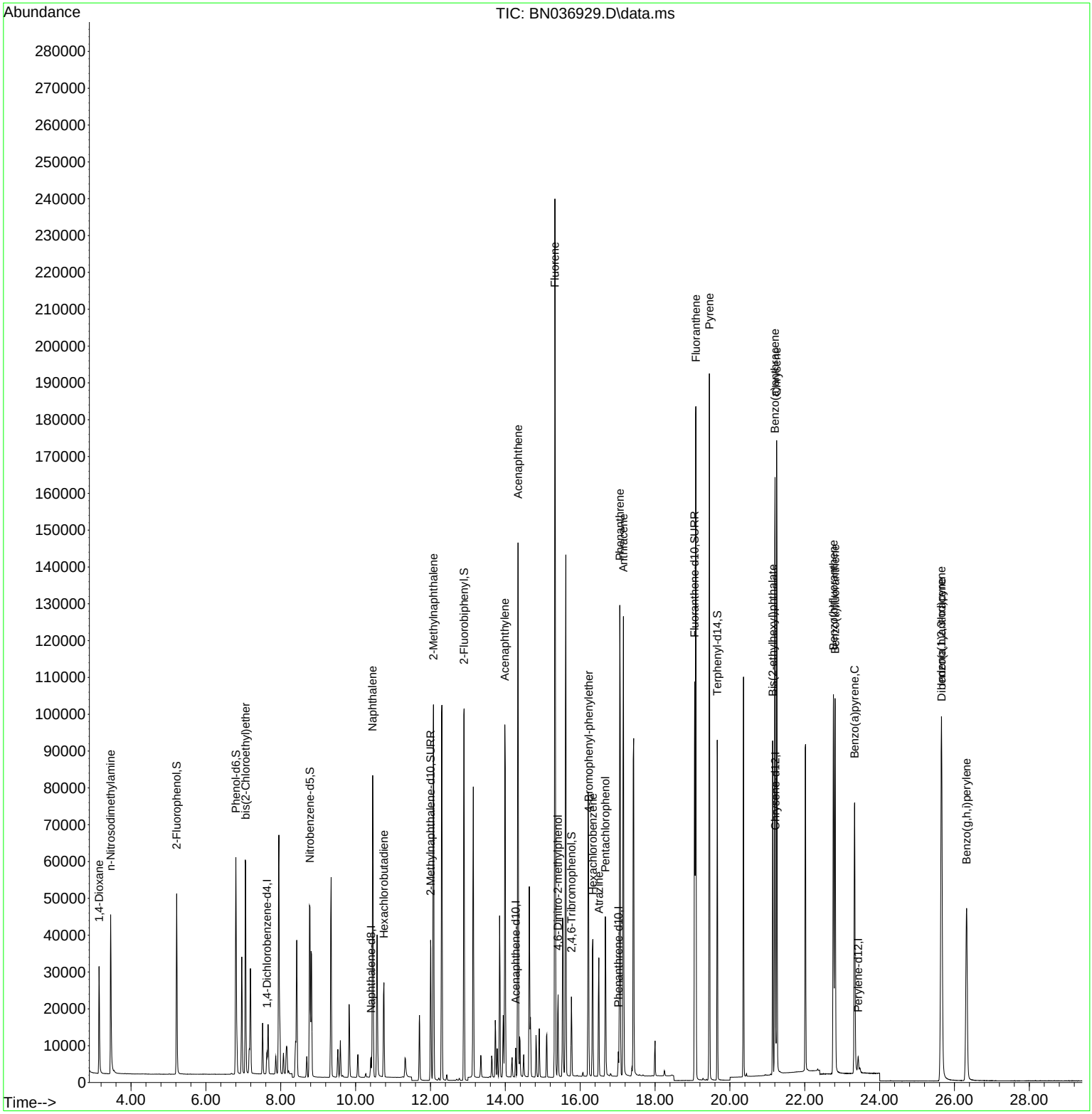
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.632	152	2667	0.400	ng		0.00
7) Naphthalene-d8	10.415	136	6741	0.400	ng		0.00
13) Acenaphthene-d10	14.277	164	4034	0.400	ng		0.00
19) Phenanthrene-d10	17.021	188	7924	0.400	ng		0.00
29) Chrysene-d12	21.215	240	7034	0.400	ng		0.00
35) Perylene-d12	23.427	264	5350	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.220	112	32346	4.701	ng		0.00
5) Phenol-d6	6.802	99	42419	5.060	ng		0.00
8) Nitrobenzene-d5	8.781	82	36759	5.249	ng		0.00
11) 2-Methylnaphthalene-d10	12.006	152	49610	5.308	ng		0.00
14) 2,4,6-Tribromophenol	15.767	330	9898	5.599	ng		0.00
15) 2-Fluorobiphenyl	12.898	172	97228	4.984	ng		0.00
27) Fluoranthene-d10	19.058	212	110482	5.447	ng		0.00
31) Terphenyl-d14	19.662	244	78873	4.712	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.147	88	15494	4.610	ng		96
3) n-Nitrosodimethylamine	3.458	42	30605	4.705	ng	#	98
6) bis(2-Chloroethyl)ether	7.062	93	38731	4.973	ng		99
9) Naphthalene	10.457	128	98160	5.004	ng		98
10) Hexachlorobutadiene	10.756	225	20245	4.733	ng	#	98
12) 2-Methylnaphthalene	12.082	142	67281	5.359	ng		98
16) Acenaphthylene	13.988	152	104172	5.334	ng		100
17) Acenaphthene	14.341	154	65801	5.093	ng		98
18) Fluorene	15.325	166	88362	5.254	ng		99
20) 4,6-Dinitro-2-methylph...	15.410	198	13303	6.700	ng	#	52
21) 4-Bromophenyl-phenylether	16.226	248	26778	5.074	ng		94
22) Hexachlorobenzene	16.338	284	27944	4.793	ng		99
23) Atrazine	16.499	200	24525	5.893	ng	#	91
24) Pentachlorophenol	16.673	266	17963	5.937	ng		99
25) Phenanthrene	17.058	178	133437	5.119	ng		99
26) Anthracene	17.157	178	128680	5.520	ng		100
28) Fluoranthene	19.091	202	159754	5.533	ng		99
30) Pyrene	19.453	202	160324	4.691	ng		100
32) Benzo(a)anthracene	21.206	228	137209	5.349	ng		98
33) Chrysene	21.251	228	135038	4.807	ng		98
34) Bis(2-ethylhexyl)phtha...	21.143	149	76115	5.194	ng	#	99
36) Indeno(1,2,3-cd)pyrene	25.649	276	107583	4.911	ng		97
37) Benzo(b)fluoranthene	22.766	252	122058	5.504	ng	#	89
38) Benzo(k)fluoranthene	22.810	252	119359	5.325	ng	#	87
39) Benzo(a)pyrene	23.333	252	98753	5.402	ng	#	82
40) Dibenzo(a,h)anthracene	25.660	278	84789	4.920	ng	#	91
41) Benzo(g,h,i)perylene	26.324	276	89523	4.643	ng		99

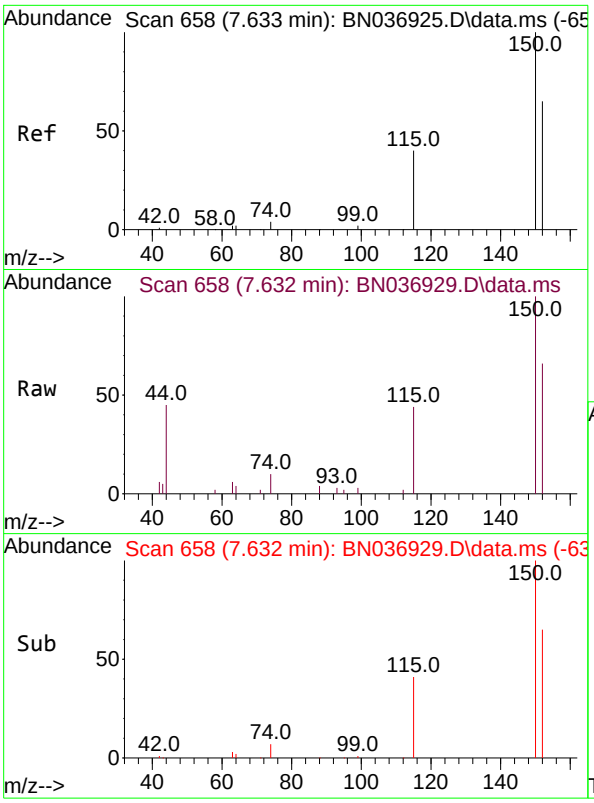
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042825\
Data File : BN036929.D
Acq On : 28 Apr 2025 15:12
Operator : RC/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Quant Time: Apr 28 15:34:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:18:01 2025
Response via : Initial Calibration



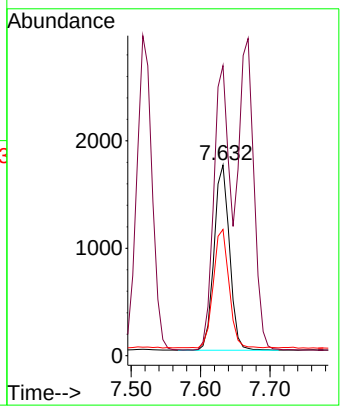


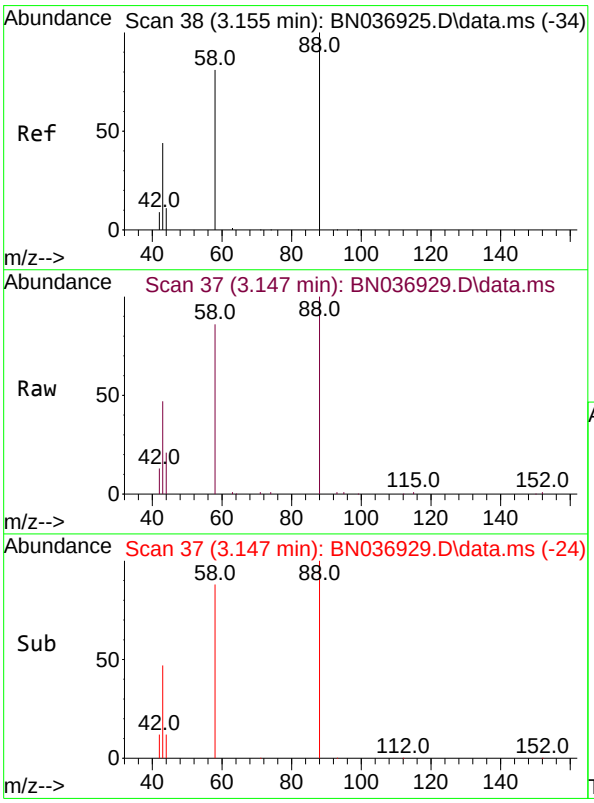
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.632 min Scan# 6
Delta R.T. -0.001 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:152 Resp: 2667

Ion	Ratio	Lower	Upper
152	100		
150	152.3	121.1	181.7
115	66.3	51.8	77.6

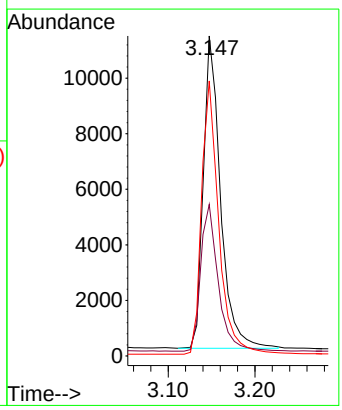


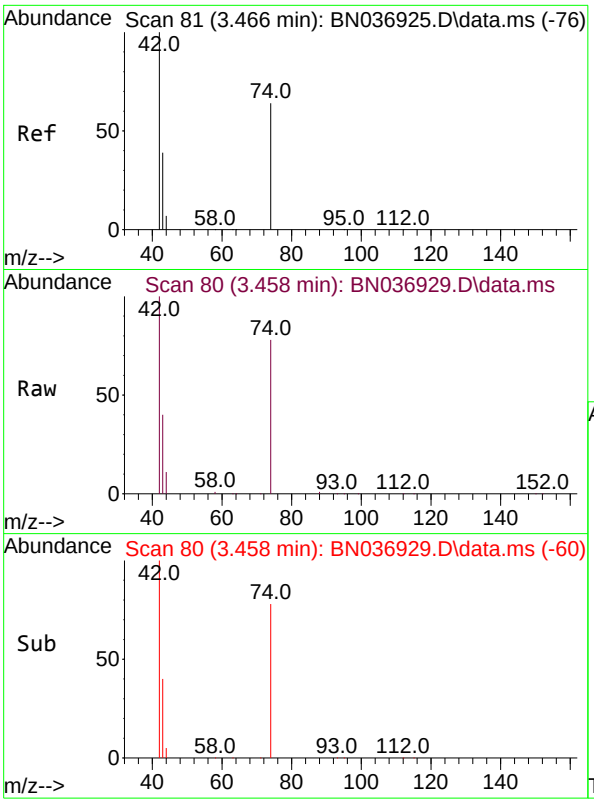


#2
1,4-Dioxane
Concen: 4.610 ng
RT: 3.147 min Scan# 37
Delta R.T. -0.008 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

Tgt Ion: 88 Resp: 15494

Ion	Ratio	Lower	Upper
88	100		
43	47.8	37.9	56.9
58	87.2	65.8	98.6



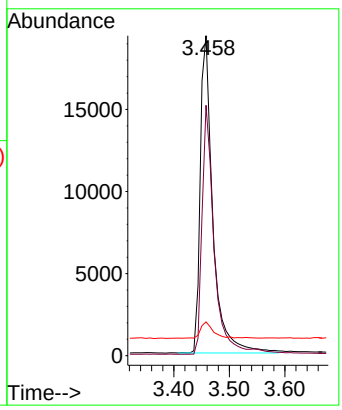


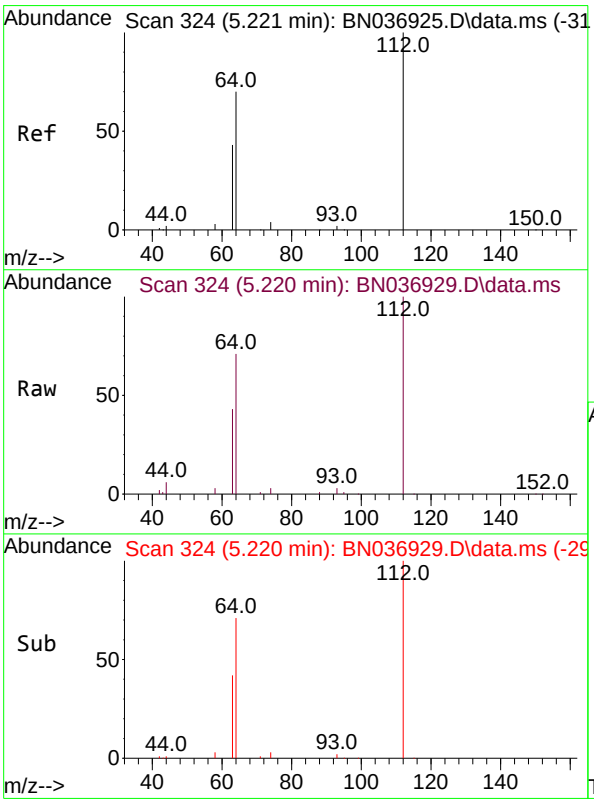
#3
n-Nitrosodimethylamine
Concen: 4.705 ng
RT: 3.458 min Scan# 8
Delta R.T. -0.008 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion: 42 Resp: 30605

Ion	Ratio	Lower	Upper
42	100		
74	75.7	59.9	89.9
44	5.2	7.5	11.3#

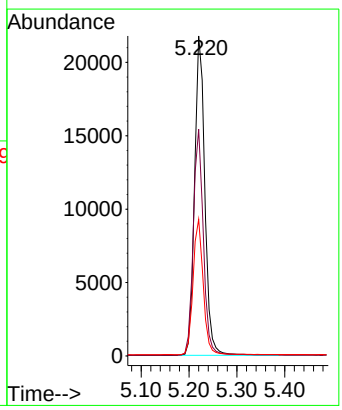


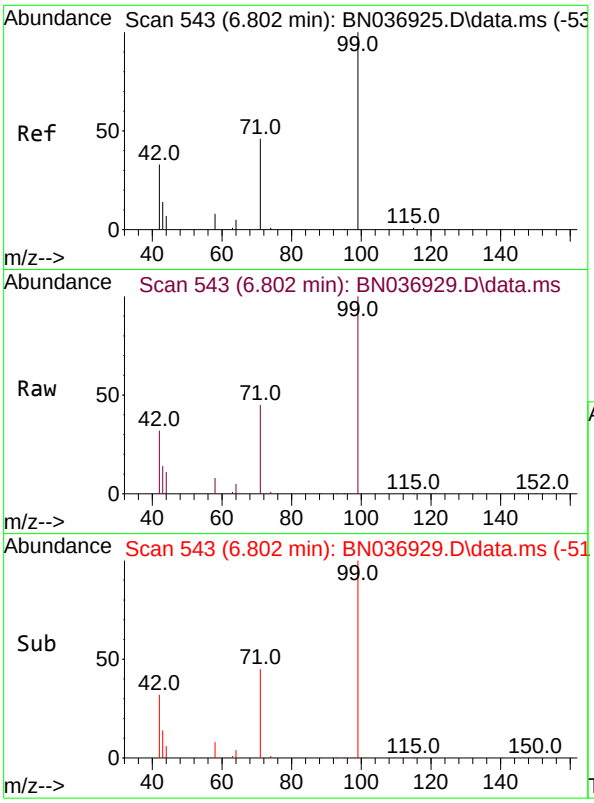


#4
2-Fluorophenol
Concen: 4.701 ng
RT: 5.220 min Scan# 324
Delta R.T. -0.001 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

Tgt Ion:112 Resp: 32346

Ion	Ratio	Lower	Upper
112	100		
64	69.9	55.7	83.5
63	42.2	33.9	50.9



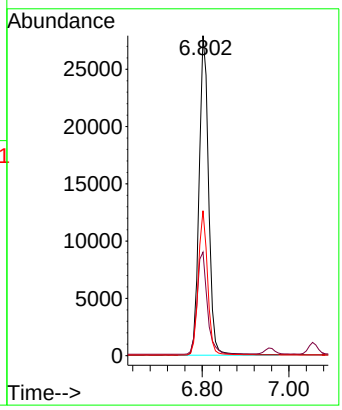


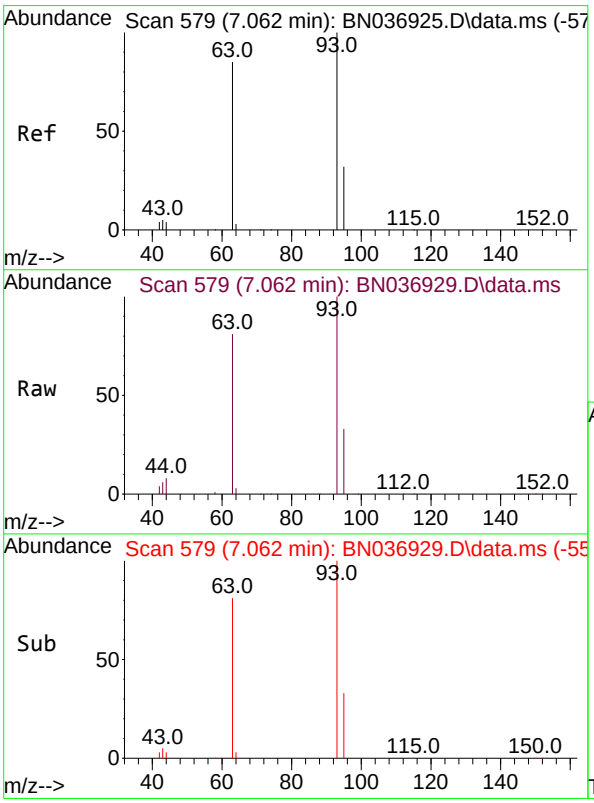
#5
Phenol-d6
Concen: 5.060 ng
RT: 6.802 min Scan# 54
Delta R.T. -0.001 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion: 99 Resp: 42419

Ion	Ratio	Lower	Upper
99	100		
42	34.6	29.6	44.4
71	44.3	36.0	54.0

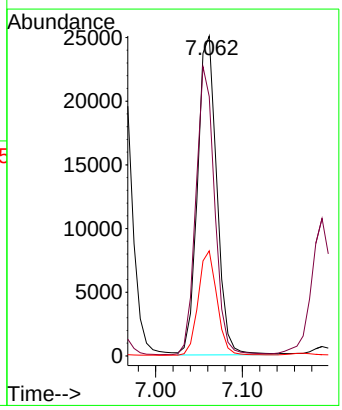


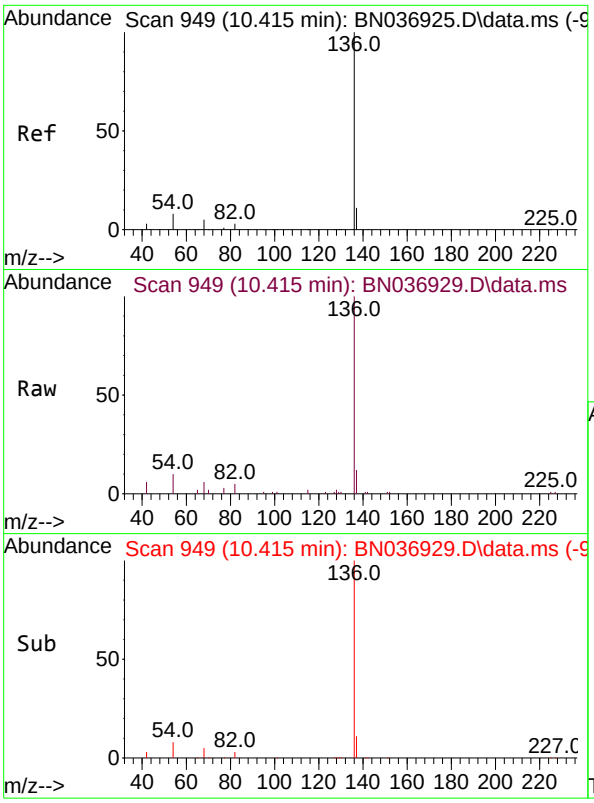


#6
bis(2-Chloroethyl)ether
Concen: 4.973 ng
RT: 7.062 min Scan# 579
Delta R.T. -0.001 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

Tgt Ion: 93 Resp: 38731

Ion	Ratio	Lower	Upper
93	100		
63	87.6	69.0	103.6
95	32.0	25.4	38.0



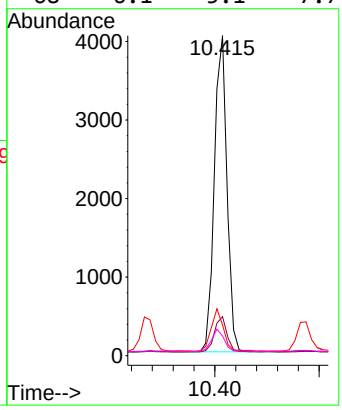


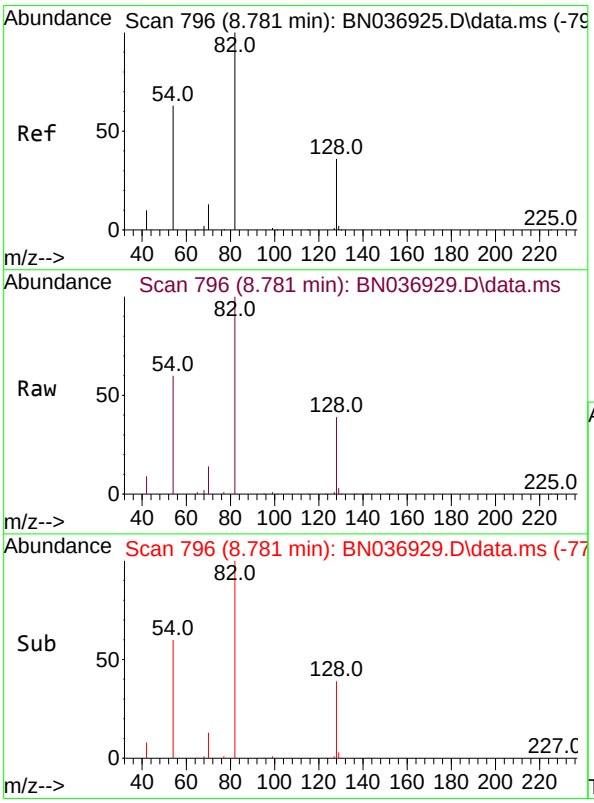
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.415 min Scan# 94
Delta R.T. -0.001 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:136 Resp: 6741

Ion	Ratio	Lower	Upper
136	100		
137	12.2	9.7	14.5
54	9.7	8.0	12.0
68	6.1	5.1	7.7

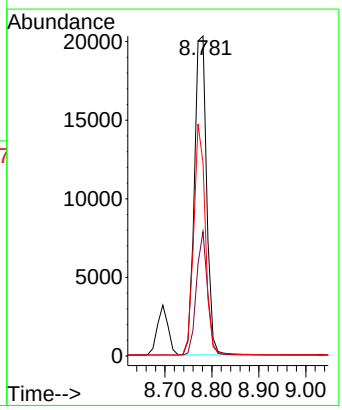


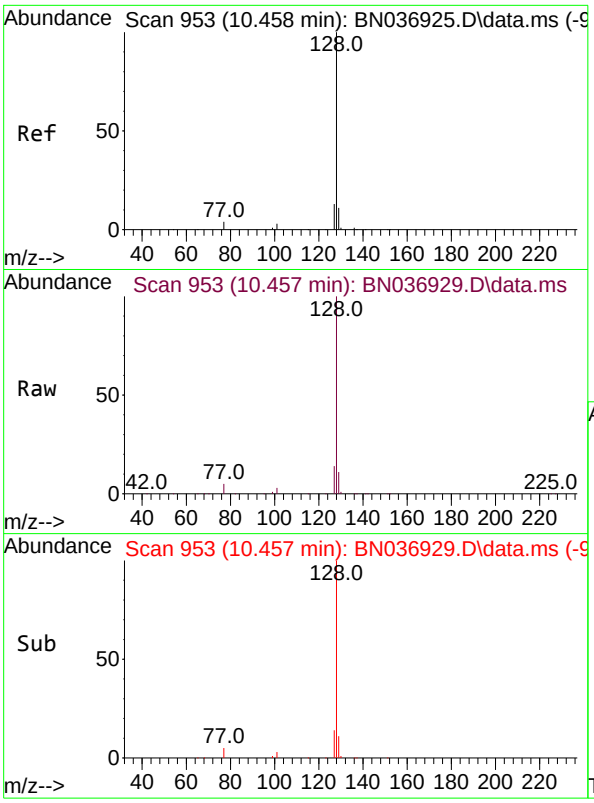


#8
Nitrobenzene-d5
Concen: 5.249 ng
RT: 8.781 min Scan# 796
Delta R.T. -0.001 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

Tgt Ion: 82 Resp: 36759

Ion	Ratio	Lower	Upper
82	100		
128	38.9	30.7	46.1
54	60.4	52.1	78.1



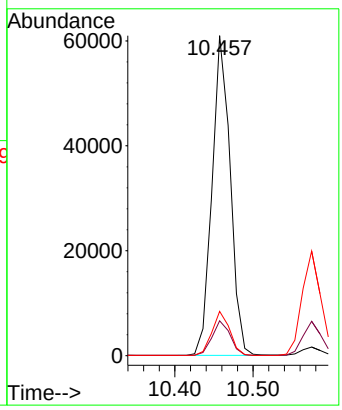


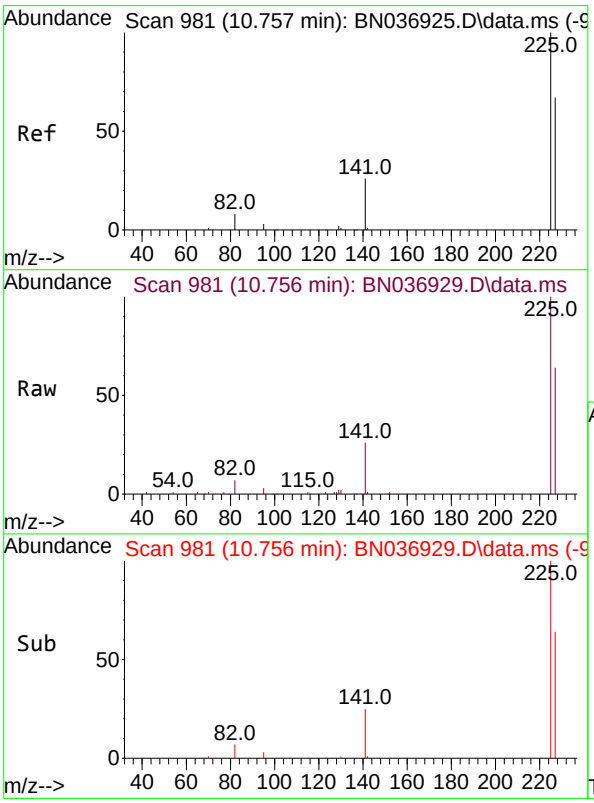
#9
Naphthalene
Concen: 5.004 ng
RT: 10.457 min Scan# 9
Delta R.T. -0.001 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:128 Resp: 98160

Ion	Ratio	Lower	Upper
128	100		
129	10.9	9.8	14.6
127	13.9	11.4	17.2

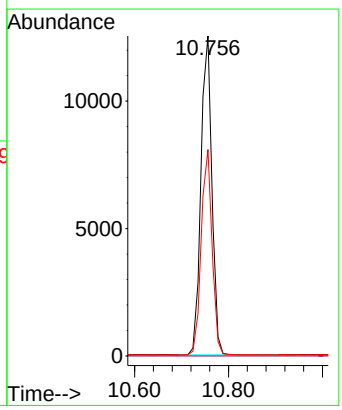


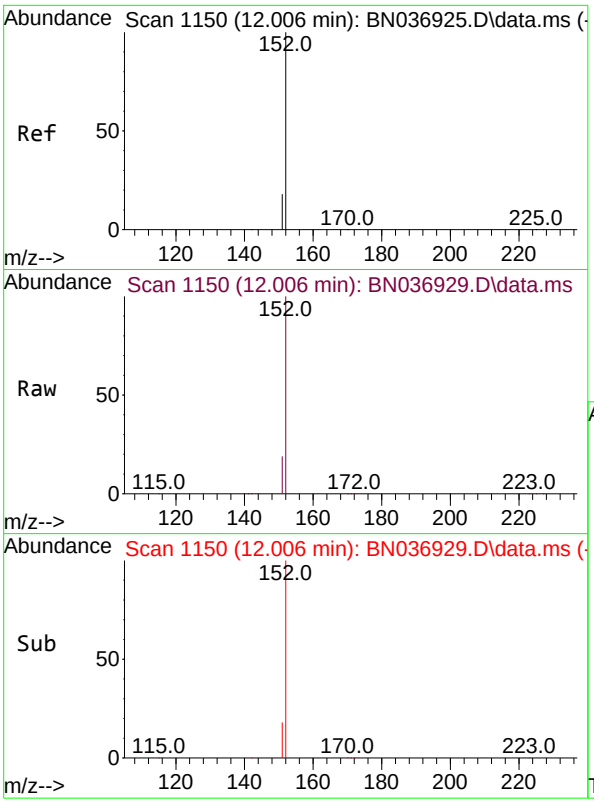


#10
Hexachlorobutadiene
Concen: 4.733 ng
RT: 10.756 min Scan# 981
Delta R.T. -0.001 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

Tgt Ion:225 Resp: 20245

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.6	52.2	78.4



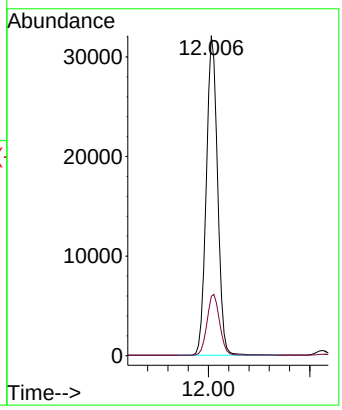


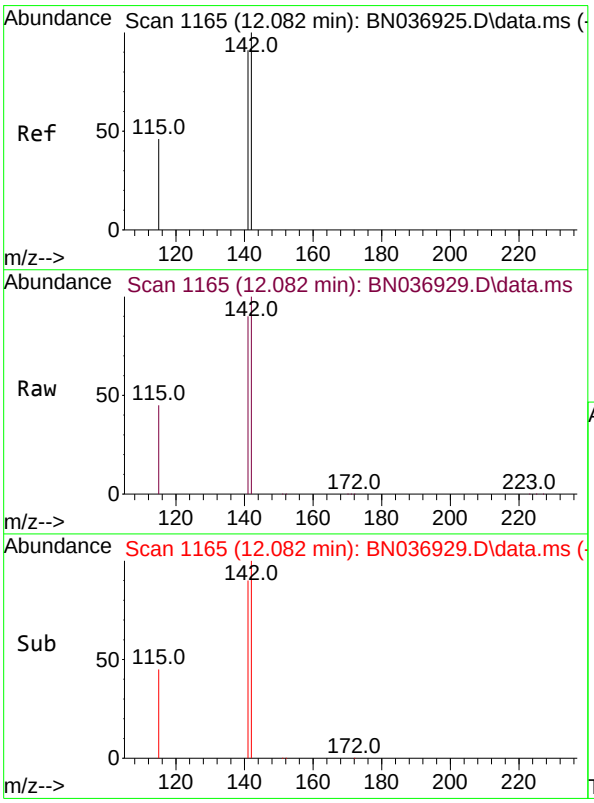
#11
2-Methylnaphthalene-d10
Concen: 5.308 ng
RT: 12.006 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:152 Resp: 49610

Ion	Ratio	Lower	Upper
152	100		
151	21.3	16.9	25.3

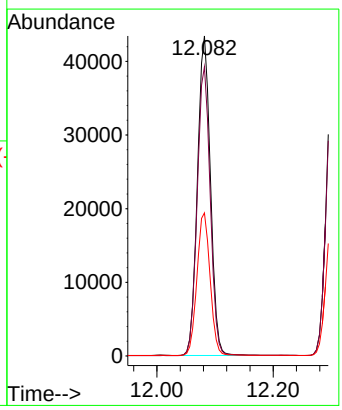


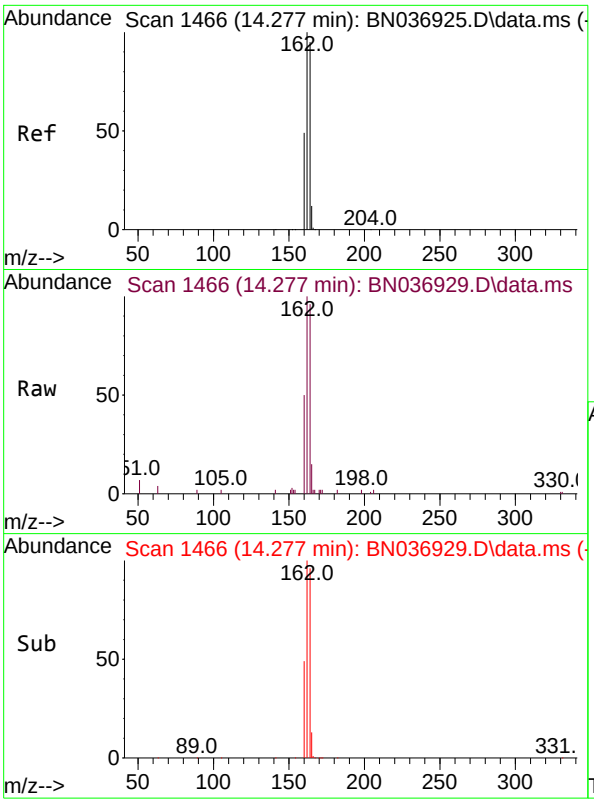


#12
2-Methylnaphthalene
Concen: 5.359 ng
RT: 12.082 min Scan# 1165
Delta R.T. -0.001 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

Tgt Ion:142 Resp: 67281

Ion	Ratio	Lower	Upper
142	100		
141	90.4	72.8	109.2
115	44.7	38.2	57.4



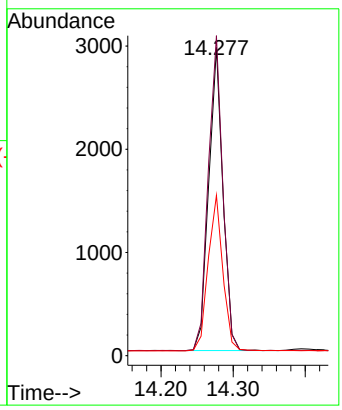


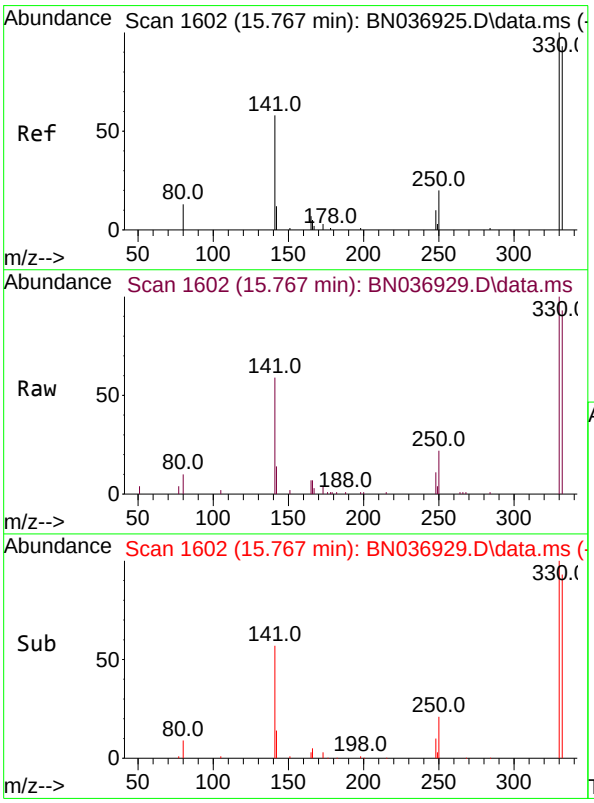
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.277 min Scan# 14
Delta R.T. -0.001 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:164 Resp: 4034

Ion	Ratio	Lower	Upper
164	100		
162	103.9	83.8	125.8
160	52.0	42.0	63.0

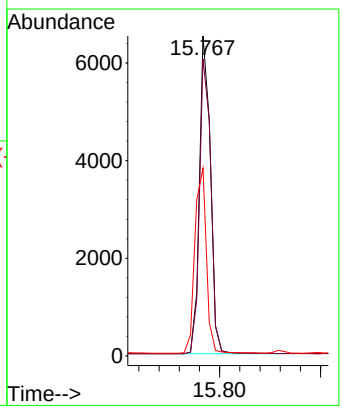


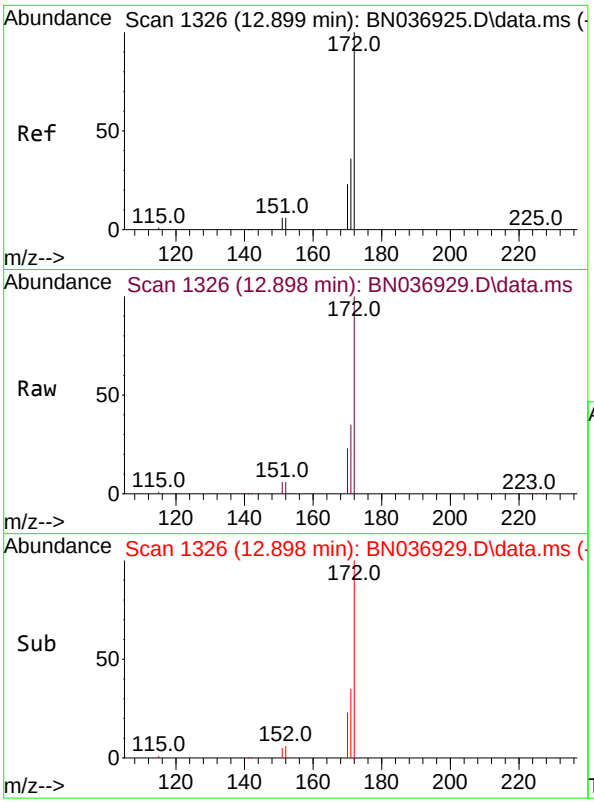


#14
2,4,6-Tribromophenol
Concen: 5.599 ng
RT: 15.767 min Scan# 1602
Delta R.T. -0.001 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

Tgt Ion:330 Resp: 9898

Ion	Ratio	Lower	Upper
330	100		
332	95.5	76.3	114.5
141	60.7	45.4	68.2



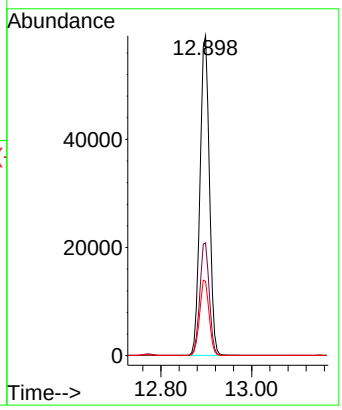


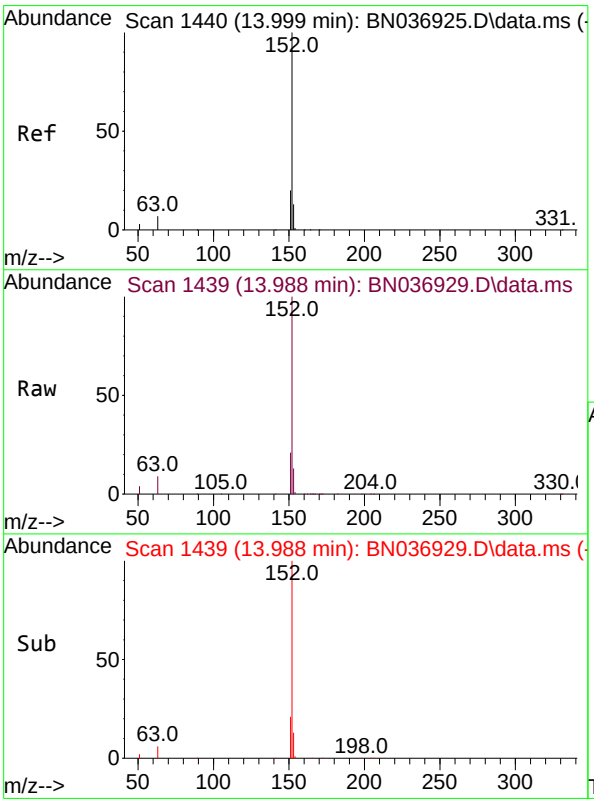
#15
2-Fluorobiphenyl
Concen: 4.984 ng
RT: 12.898 min Scan# 1
Delta R.T. -0.001 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:172 Resp: 97228

Ion	Ratio	Lower	Upper
172	100		
171	35.2	29.4	44.0
170	23.2	19.4	29.0

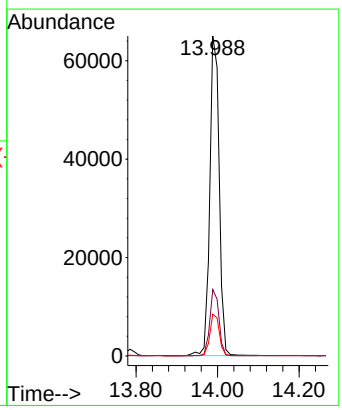


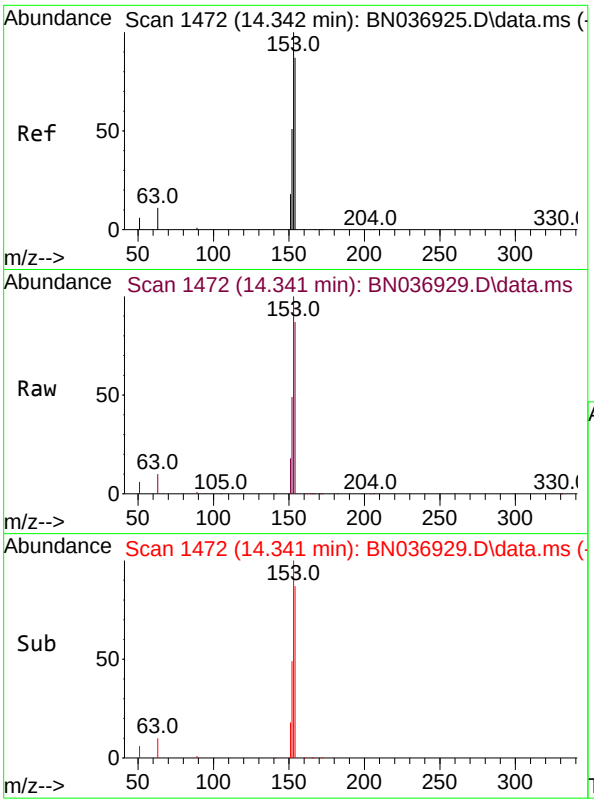


#16
Acenaphthylene
Concen: 5.334 ng
RT: 13.988 min Scan# 1439
Delta R.T. -0.011 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

Tgt Ion:152 Resp: 104172

Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.0	24.0
153	13.0	10.2	15.2



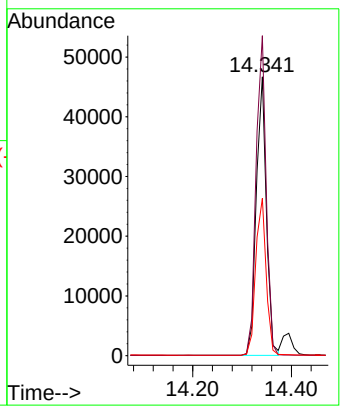


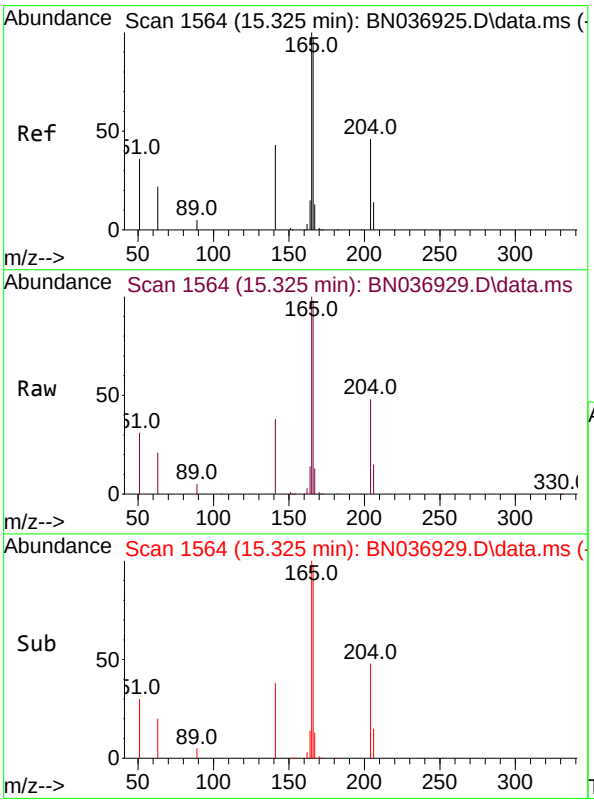
#17
Acenaphthene
Concen: 5.093 ng
RT: 14.341 min Scan# 14
Delta R.T. -0.001 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:154 Resp: 65801

Ion	Ratio	Lower	Upper
154	100		
153	115.8	93.4	140.2
152	58.6	49.5	74.3

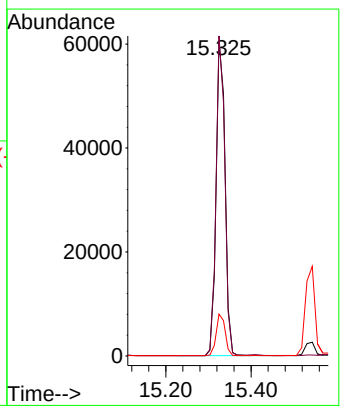


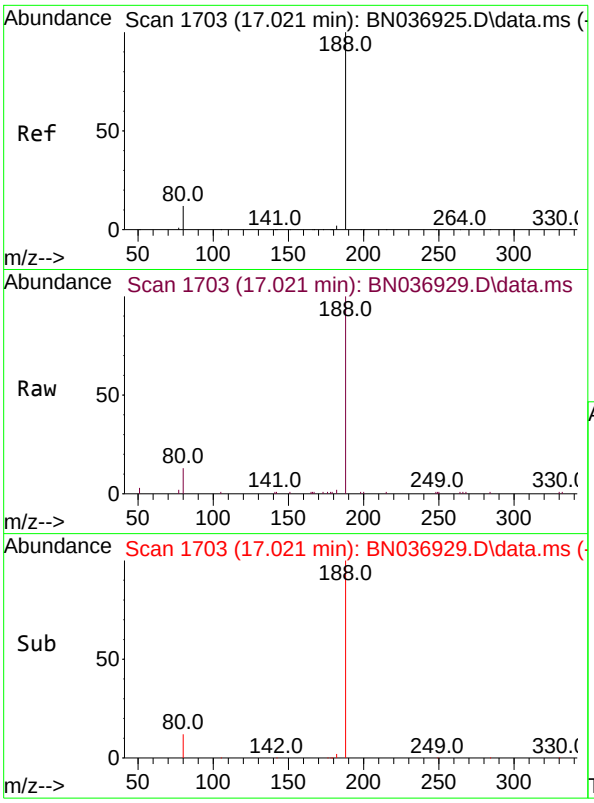


#18
Fluorene
Concen: 5.254 ng
RT: 15.325 min Scan# 1564
Delta R.T. -0.001 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

Tgt Ion:166 Resp: 88362

Ion	Ratio	Lower	Upper
166	100		
165	99.7	80.8	121.2
167	13.3	10.8	16.2



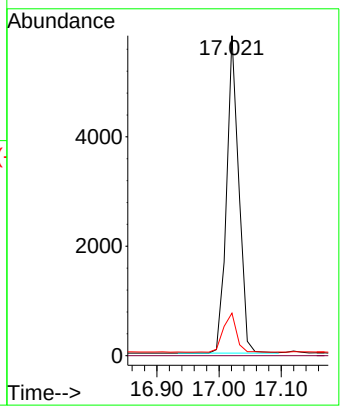


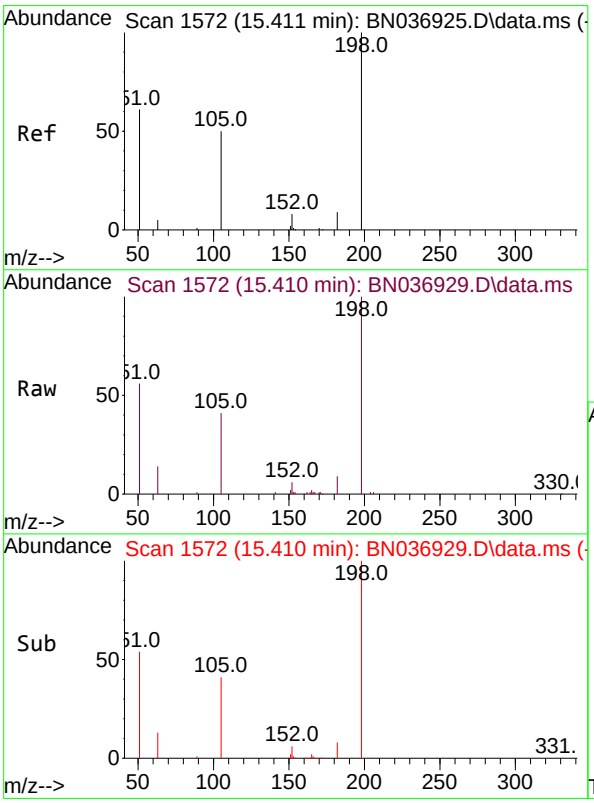
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.021 min Scan# 1
Delta R.T. -0.001 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:188 Resp: 7924

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	13.3	10.7	16.1

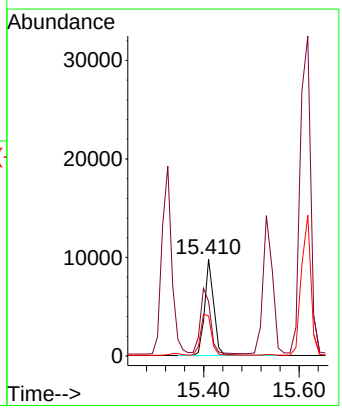


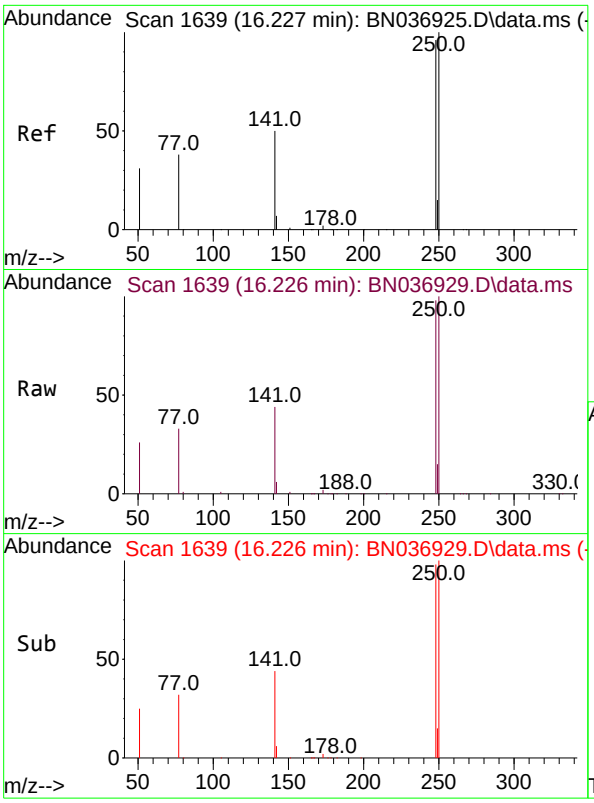


#20
4,6-Dinitro-2-methylphenol
Concen: 6.700 ng
RT: 15.410 min Scan# 1572
Delta R.T. -0.001 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

Tgt Ion:198 Resp: 13303

Ion	Ratio	Lower	Upper
198	100		
51	56.3	97.9	146.9#
105	41.2	50.0	75.0#



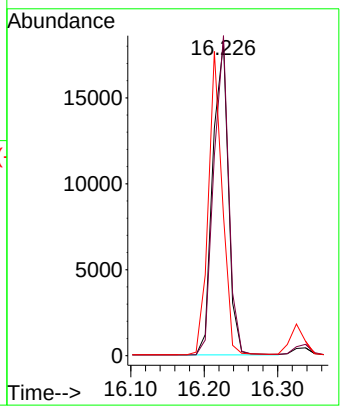


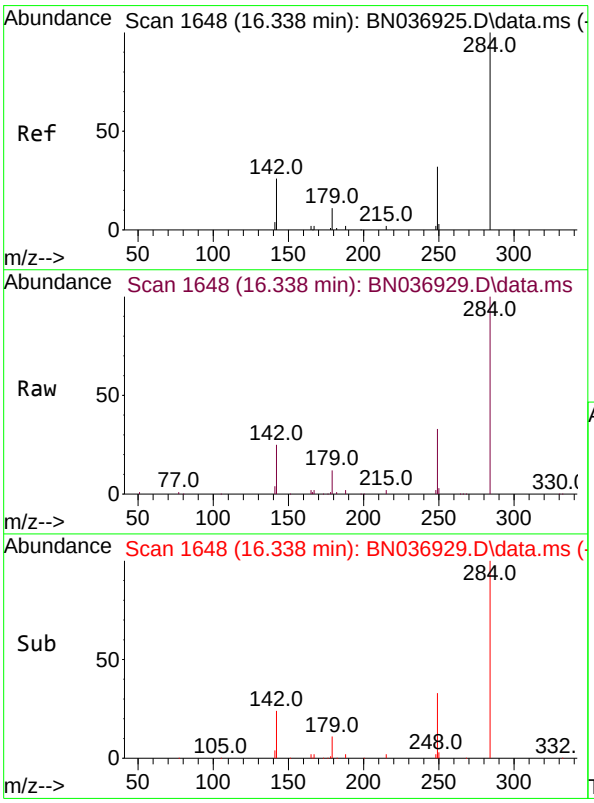
#21
4-Bromophenyl-phenylether
Concen: 5.074 ng
RT: 16.226 min Scan# 1
Delta R.T. -0.001 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:248 Resp: 26778

Ion	Ratio	Lower	Upper
248	100		
250	102.1	83.7	125.5
141	44.7	43.8	65.8

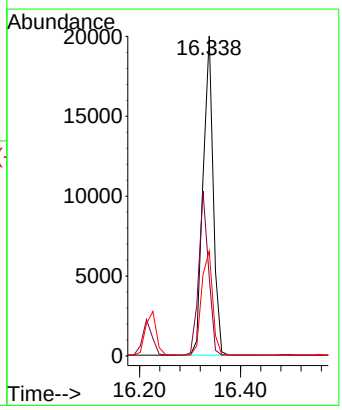


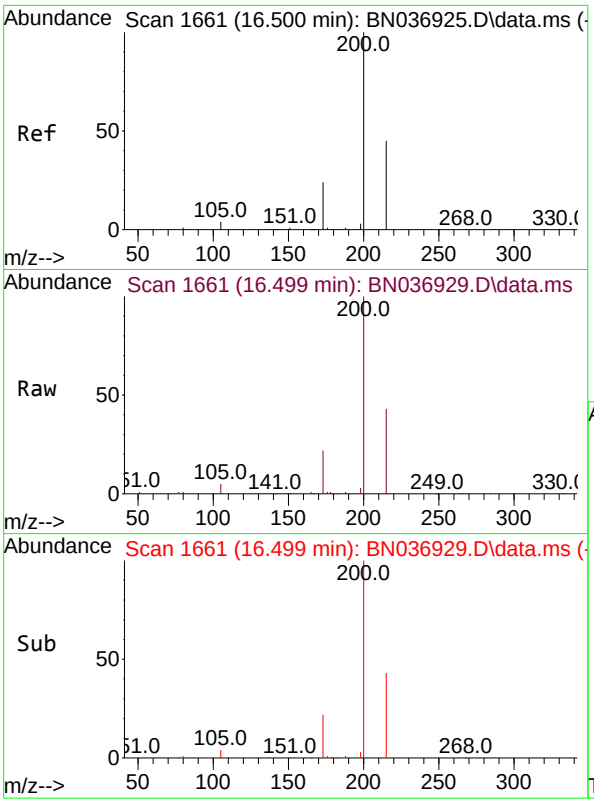


#22
Hexachlorobenzene
Concen: 4.793 ng
RT: 16.338 min Scan# 1648
Delta R.T. -0.001 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

Tgt Ion:284 Resp: 27944

Ion	Ratio	Lower	Upper
284	100		
142	49.9	40.0	60.0
249	35.8	28.2	42.2



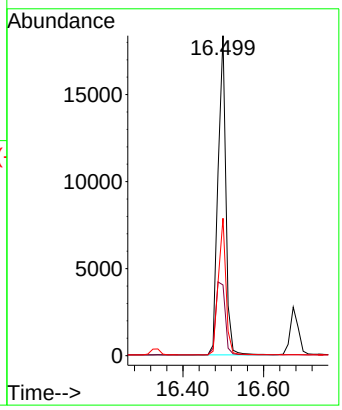


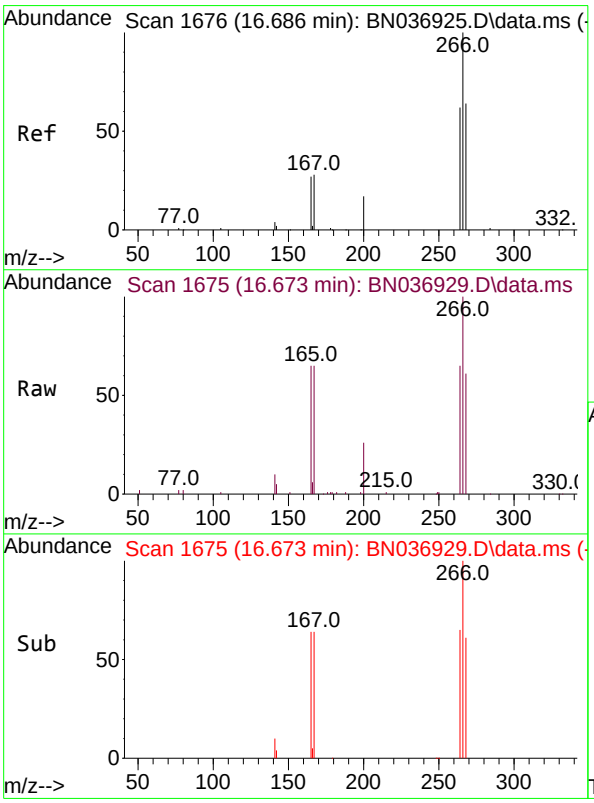
#23
Atrazine
Concen: 5.893 ng
RT: 16.499 min Scan# 1(
Delta R.T. -0.001 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:200 Resp: 24525

Ion	Ratio	Lower	Upper
200	100		
173	22.1	22.4	33.6#
215	42.9	38.6	57.8

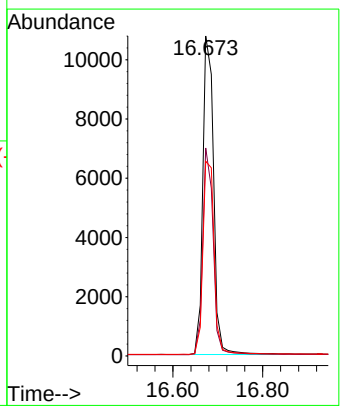


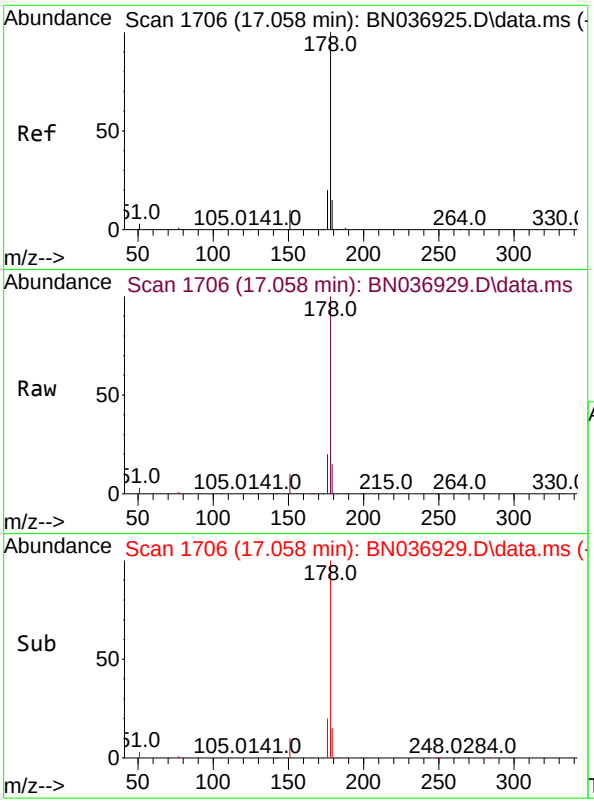


#24
Pentachlorophenol
Concen: 5.937 ng
RT: 16.673 min Scan# 1675
Delta R.T. -0.013 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

Tgt Ion:266 Resp: 17963

Ion	Ratio	Lower	Upper
266	100		
264	62.6	49.9	74.9
268	63.3	52.2	78.4



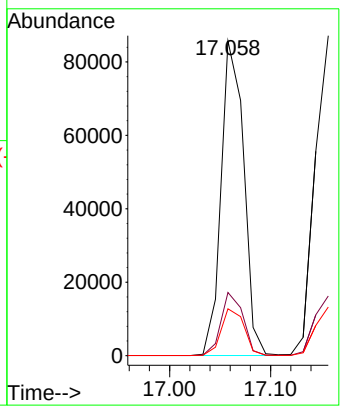


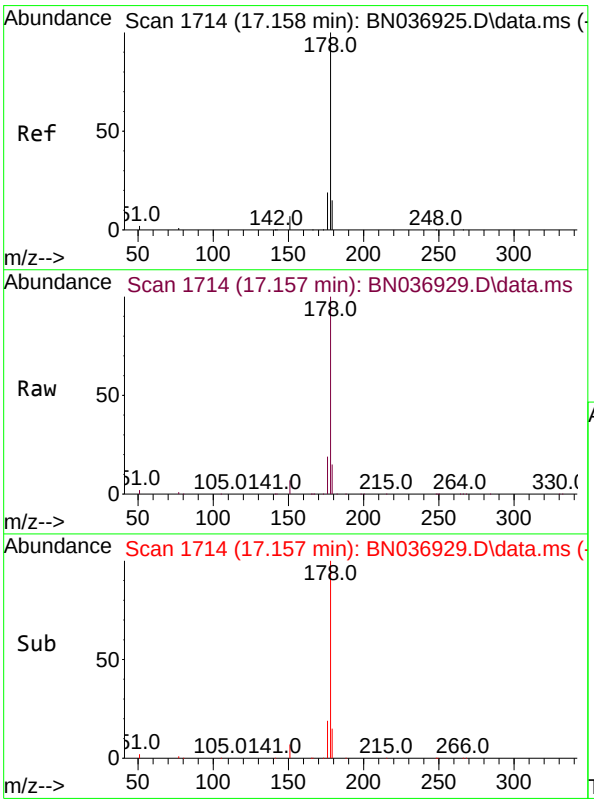
#25
Phenanthrene
Concen: 5.119 ng
RT: 17.058 min Scan# 1
Delta R.T. -0.001 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:178 Resp: 133437

Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.7	23.5
179	15.0	12.4	18.6

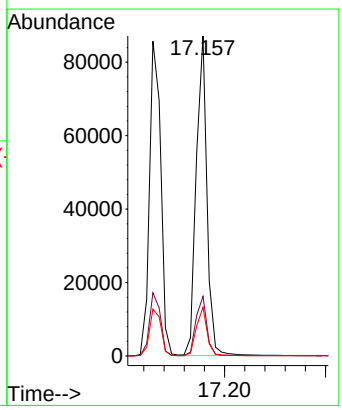


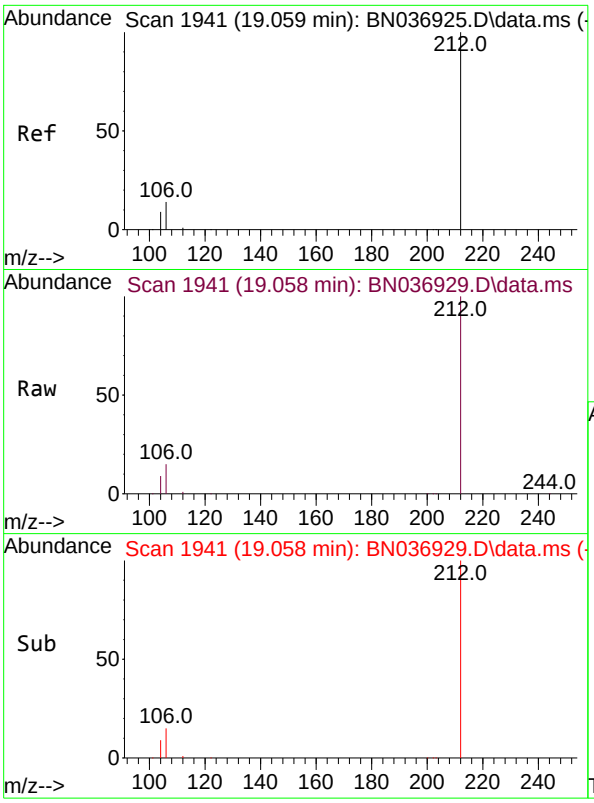


#26
Anthracene
Concen: 5.520 ng
RT: 17.157 min Scan# 1714
Delta R.T. -0.001 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

Tgt Ion:178 Resp: 128680

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.3	22.9
179	15.0	12.1	18.1



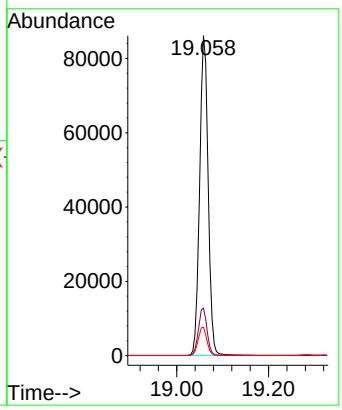


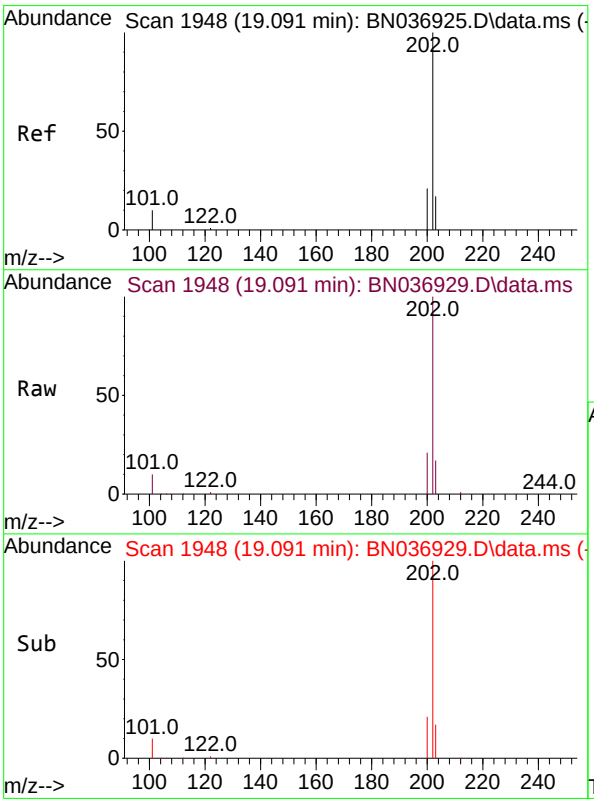
#27
Fluoranthene-d10
Concen: 5.447 ng
RT: 19.058 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:212 Resp: 110482

Ion	Ratio	Lower	Upper
212	100		
106	15.0	11.6	17.4
104	9.0	7.0	10.4

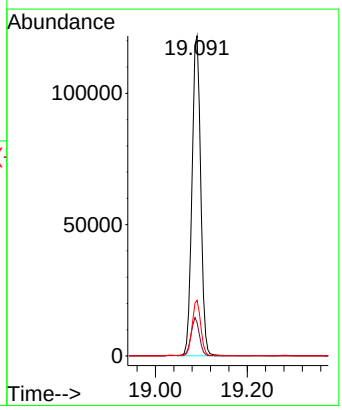


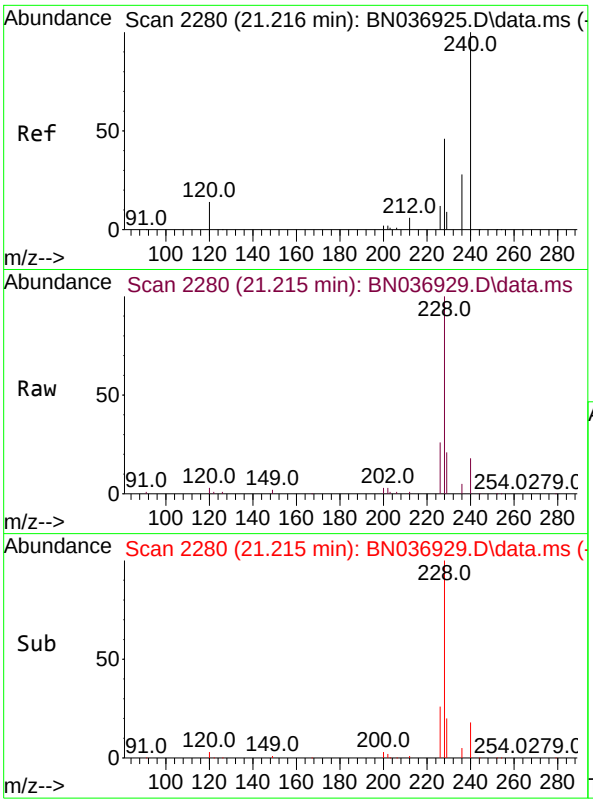


#28
Fluoranthene
Concen: 5.533 ng
RT: 19.091 min Scan# 1948
Delta R.T. -0.001 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

Tgt Ion:202 Resp: 159754

Ion	Ratio	Lower	Upper
202	100		
101	11.7	8.5	12.7
203	17.2	13.7	20.5



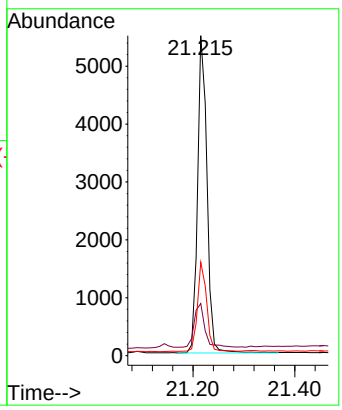


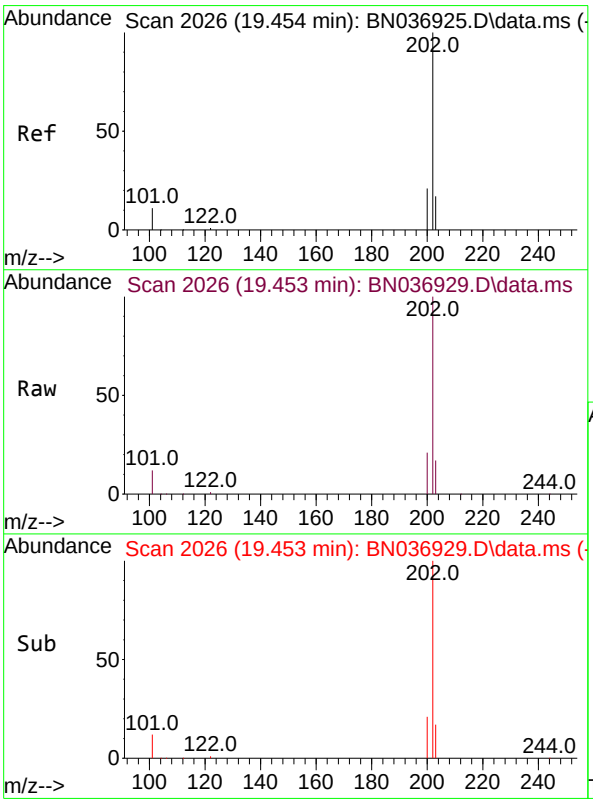
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.215 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:240 Resp: 7034

Ion	Ratio	Lower	Upper
240	100		
120	16.3	14.1	21.1
236	29.2	23.8	35.8

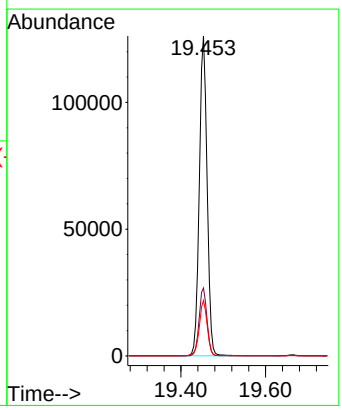


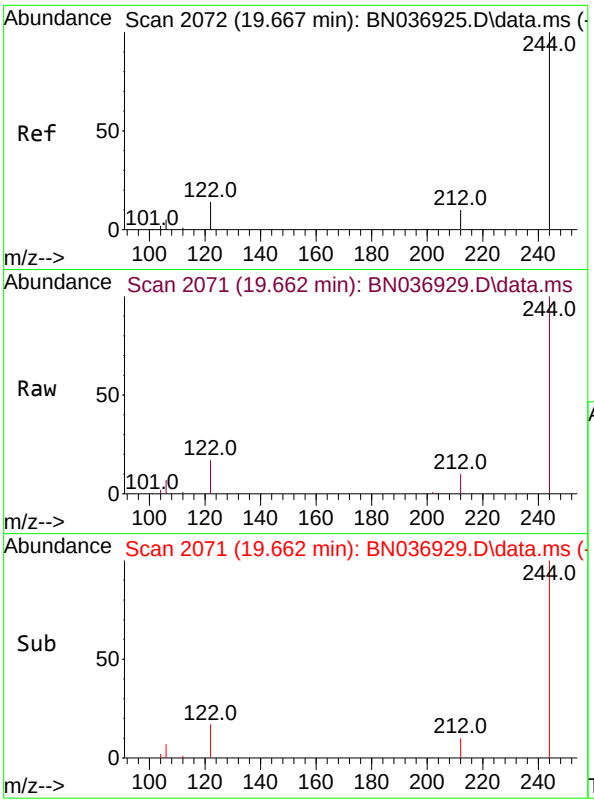


#30
Pyrene
Concen: 4.691 ng
RT: 19.453 min Scan# 2026
Delta R.T. -0.001 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

Tgt Ion:202 Resp: 160324

Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.0	25.6
203	17.7	14.0	21.0



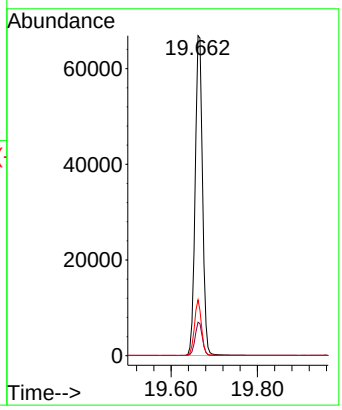


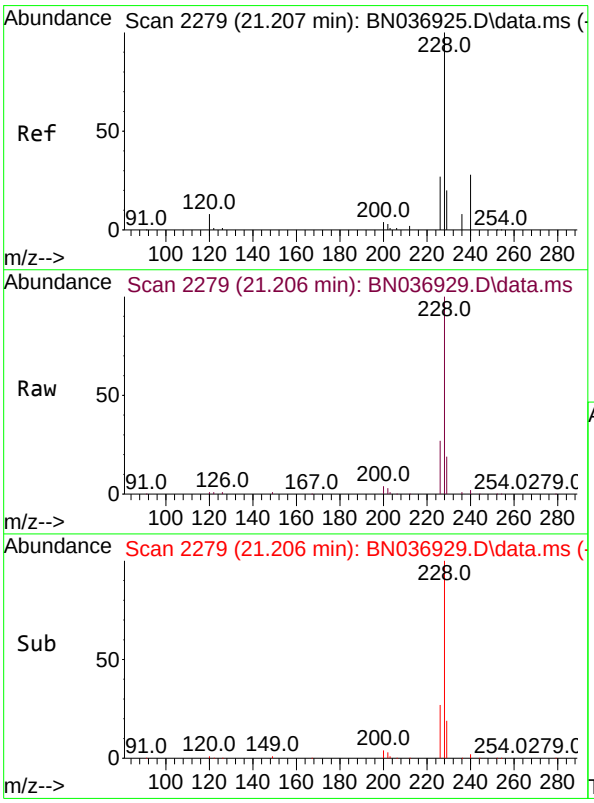
#31
Terphenyl-d14
Concen: 4.712 ng
RT: 19.662 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:244 Resp: 78873

Ion	Ratio	Lower	Upper
244	100		
212	10.5	9.6	14.4
122	17.4	12.7	19.1

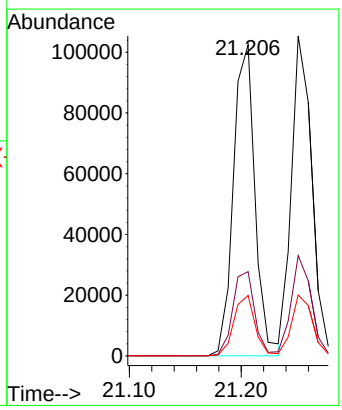


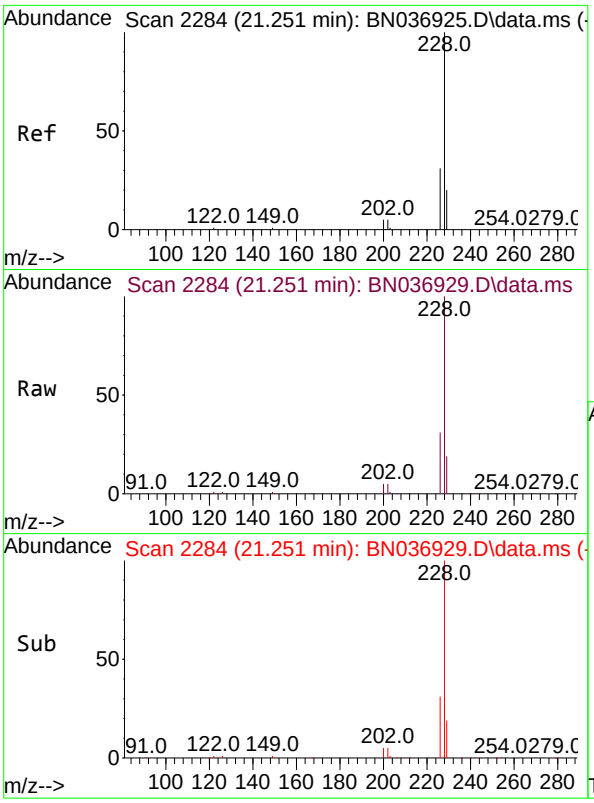


#32
Benzo(a)anthracene
Concen: 5.349 ng
RT: 21.206 min Scan# 2279
Delta R.T. -0.001 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

Tgt Ion:228 Resp: 137209

Ion	Ratio	Lower	Upper
228	100		
226	27.1	22.2	33.4
229	19.4	16.4	24.6



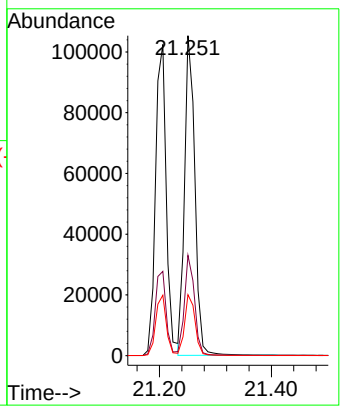


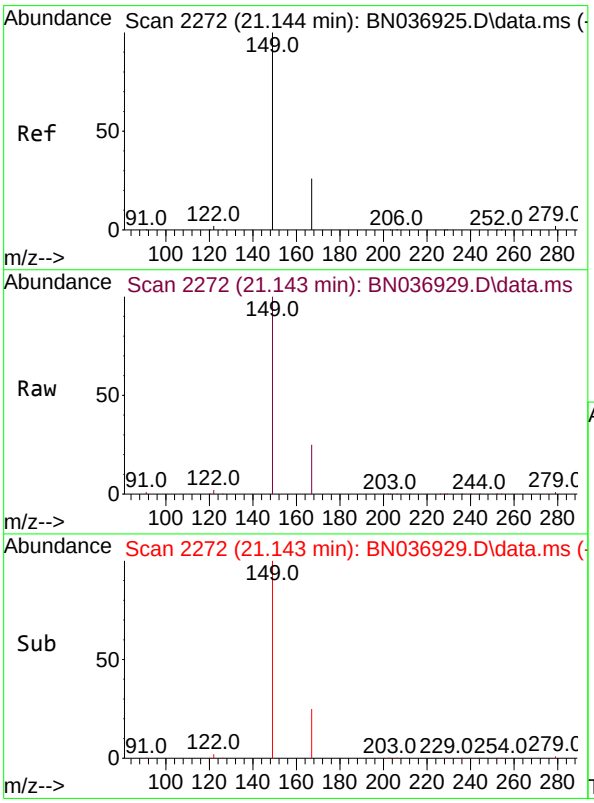
#33
Chrysene
Concen: 4.807 ng
RT: 21.251 min Scan# 2
Delta R.T. -0.001 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:228 Resp: 135038

Ion	Ratio	Lower	Upper
228	100		
226	31.3	25.5	38.3
229	19.1	16.5	24.7

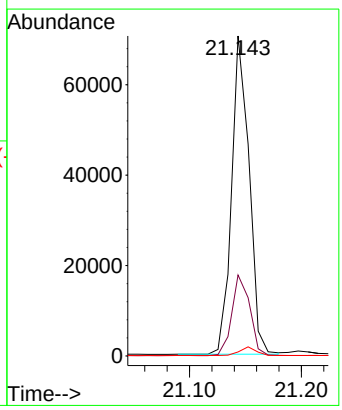


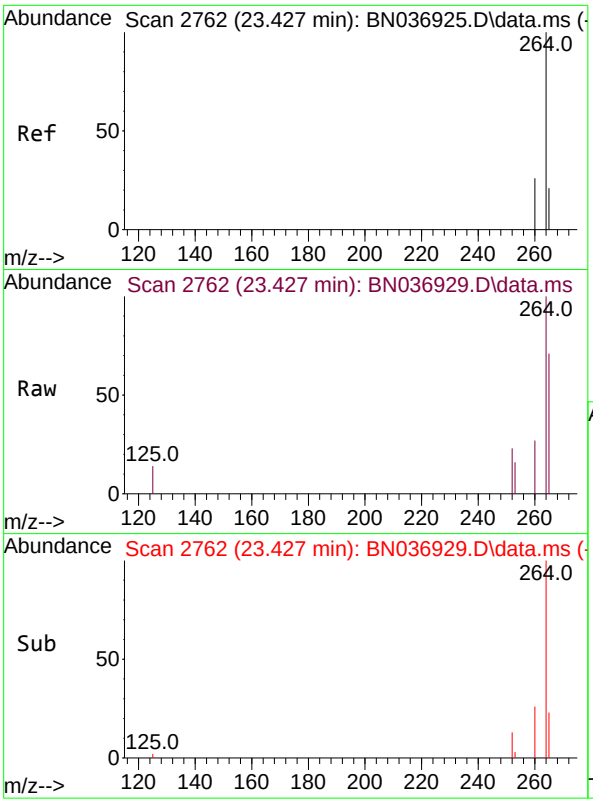


#34
Bis(2-ethylhexyl)phthalate
Concen: 5.194 ng
RT: 21.143 min Scan# 2272
Delta R.T. -0.001 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

Tgt Ion:149 Resp: 76115

Ion	Ratio	Lower	Upper
149	100		
167	26.0	21.0	31.6
279	2.6	2.7	4.1#



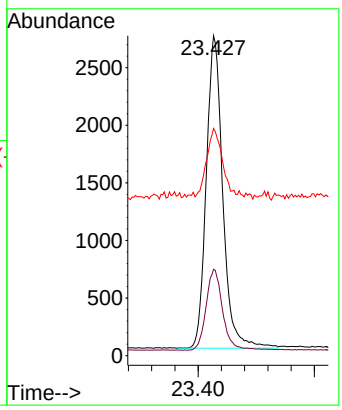


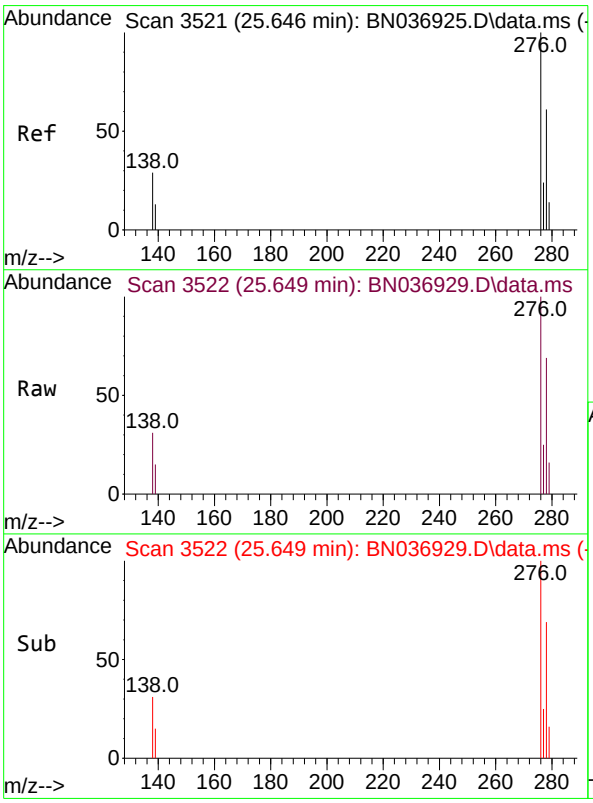
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.427 min Scan# 2
Delta R.T. -0.001 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:264 Resp: 5350

Ion	Ratio	Lower	Upper
264	100		
260	27.0	22.2	33.2
265	71.0	65.8	98.6

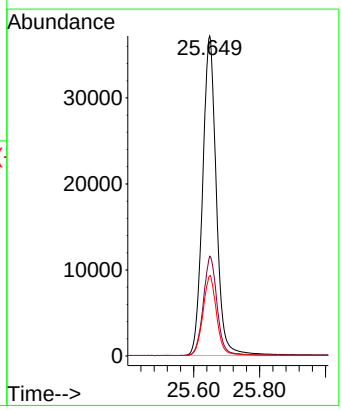


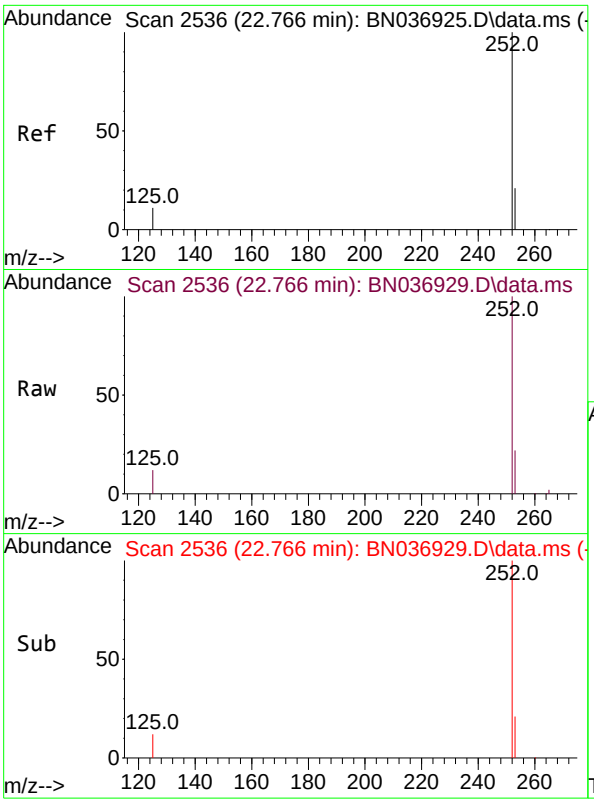


#36
Indeno(1,2,3-cd)pyrene
Concen: 4.911 ng
RT: 25.649 min Scan# 3522
Delta R.T. 0.002 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

Tgt Ion:276 Resp: 107583

Ion	Ratio	Lower	Upper
276	100		
138	31.3	23.0	34.6
277	25.0	20.0	30.0



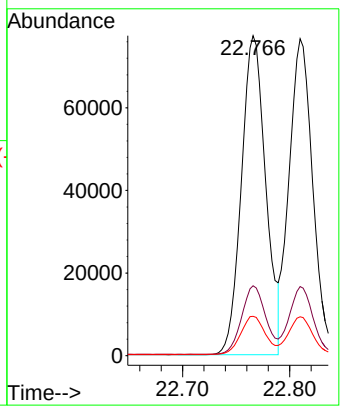


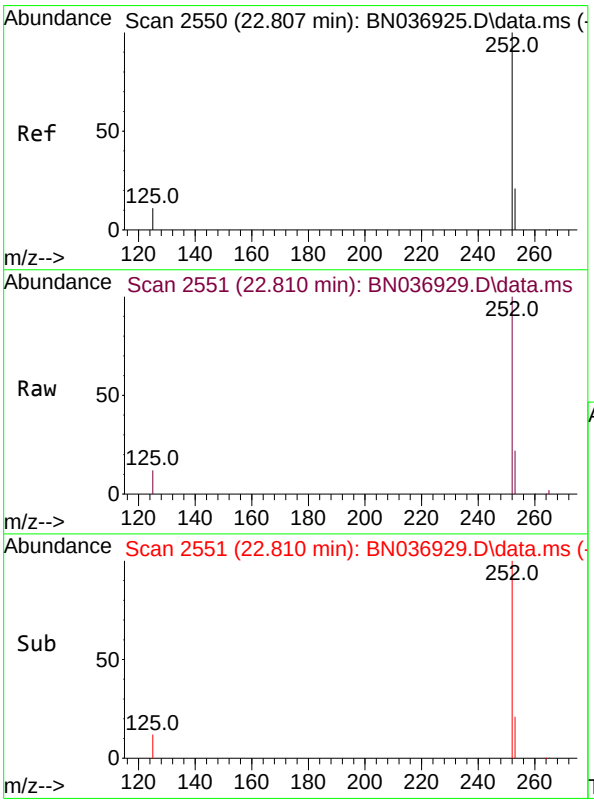
#37
Benzo(b)fluoranthene
Concen: 5.504 ng
RT: 22.766 min Scan# 2
Delta R.T. -0.001 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:252 Resp: 122058

Ion	Ratio	Lower	Upper
252	100		
253	21.9	22.1	33.1#
125	12.3	14.2	21.2#

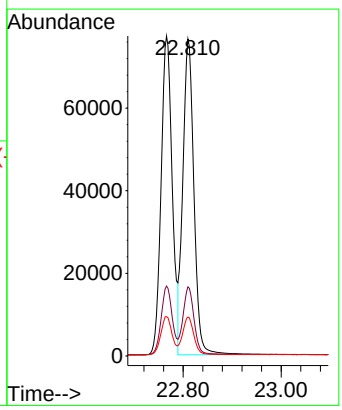


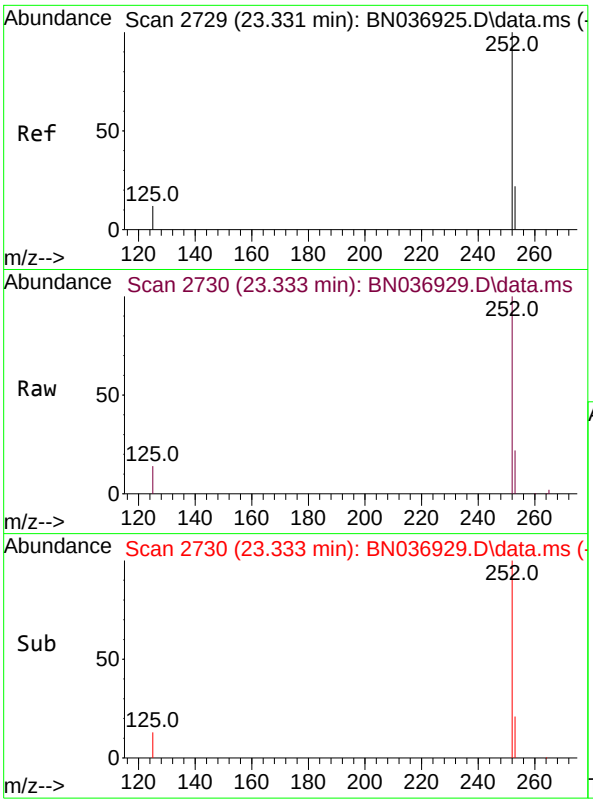


#38
Benzo(k)fluoranthene
Concen: 5.325 ng
RT: 22.810 min Scan# 2551
Delta R.T. 0.002 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

Tgt Ion:252 Resp: 119359

Ion	Ratio	Lower	Upper
252	100		
253	21.8	22.8	34.2#
125	12.3	14.2	21.2#



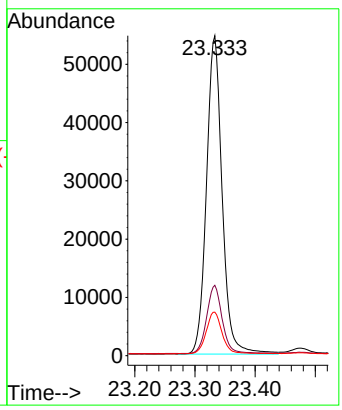


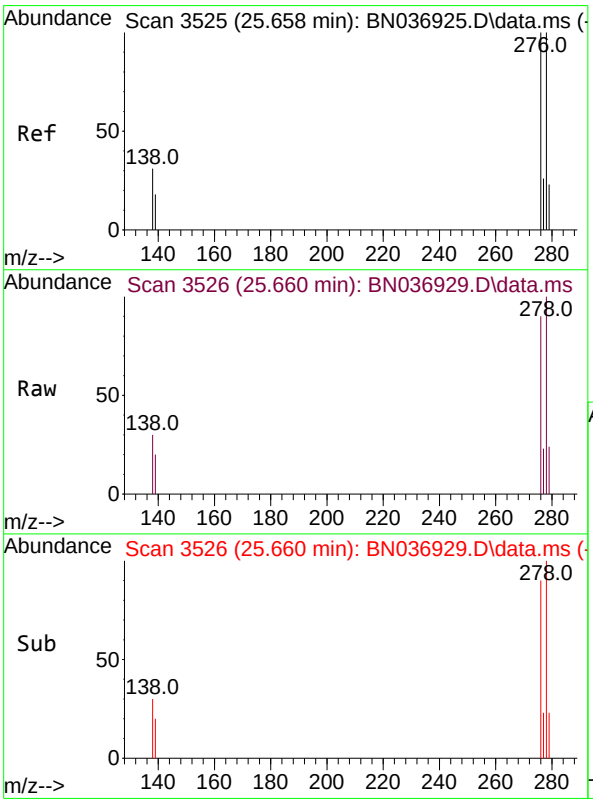
#39
Benzo(a)pyrene
Concen: 5.402 ng
RT: 23.333 min Scan# 2
Delta R.T. 0.002 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:252 Resp: 98753

Ion	Ratio	Lower	Upper
252	100		
253	22.0	25.9	38.9#
125	13.6	17.4	26.0#

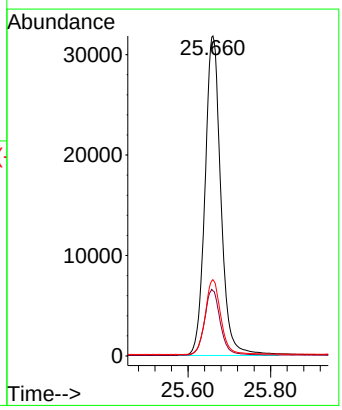


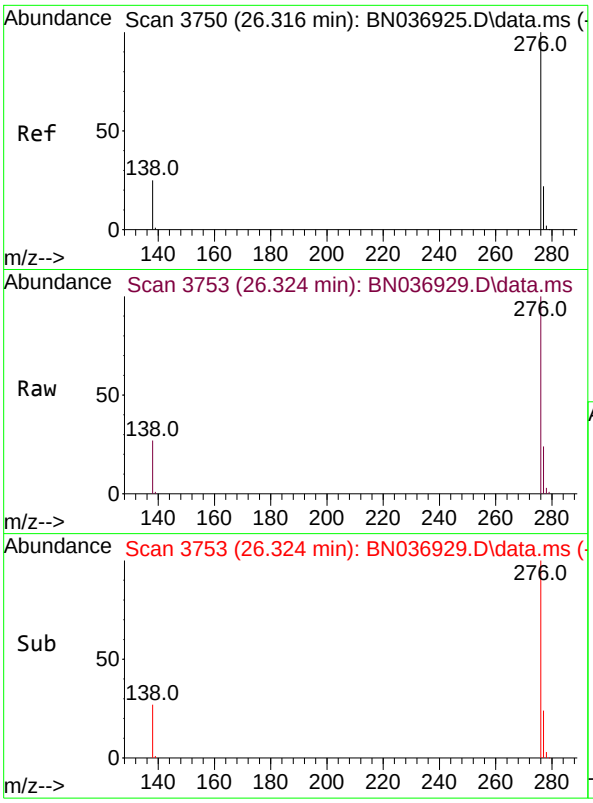


#40
Dibenzo(a,h)anthracene
Concen: 4.920 ng
RT: 25.660 min Scan# 3526
Delta R.T. 0.002 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

Tgt Ion:278 Resp: 84789

Ion	Ratio	Lower	Upper
278	100		
139	20.4	17.4	26.2
279	23.8	24.9	37.3#



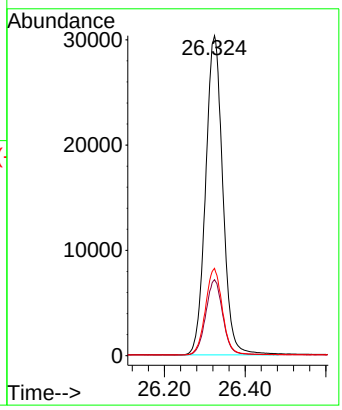


#41
Benzo(g,h,i)perylene
Concen: 4.643 ng
RT: 26.324 min Scan# 3
Delta R.T. 0.008 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:276 Resp: 89523

Ion	Ratio	Lower	Upper
276	100		
277	23.7	20.2	30.2
138	27.3	21.9	32.9



Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042825\
Data File : BN036930.D
Acq On : 28 Apr 2025 15:51
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN042825

Quant Time: Apr 28 18:00:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:35:03 2025
Response via : Initial Calibration

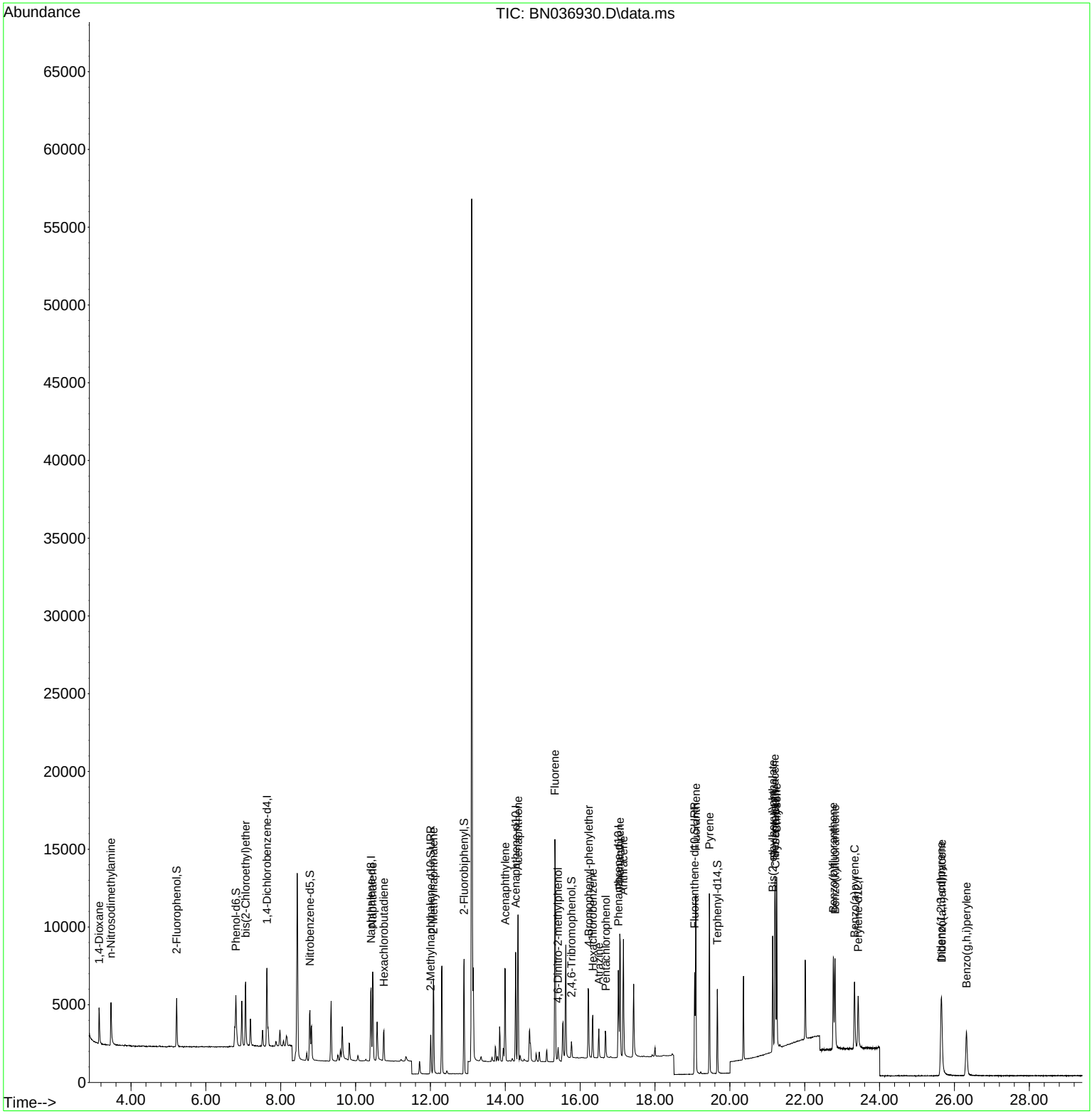
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.633	152	2409	0.400	ng		0.00
7) Naphthalene-d8	10.415	136	6199	0.400	ng		0.00
13) Acenaphthene-d10	14.277	164	3595	0.400	ng		0.00
19) Phenanthrene-d10	17.021	188	7165	0.400	ng		0.00
29) Chrysene-d12	21.215	240	5561	0.400	ng		0.00
35) Perylene-d12	23.427	264	4453	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.220	112	2200	0.357	ng		0.00
5) Phenol-d6	6.802	99	2639	0.348	ng		0.00
8) Nitrobenzene-d5	8.781	82	2643	0.408	ng		0.00
11) 2-Methylnaphthalene-d10	12.006	152	3565	0.411	ng		0.00
14) 2,4,6-Tribromophenol	15.767	330	524	0.327	ng		0.00
15) 2-Fluorobiphenyl	12.898	172	6791	0.391	ng		0.00
27) Fluoranthene-d10	19.059	212	7362	0.396	ng		0.00
31) Terphenyl-d14	19.667	244	5345	0.407	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.148	88	1307	0.435	ng		96
3) n-Nitrosodimethylamine	3.465	42	2382	0.409	ng	#	98
6) bis(2-Chloroethyl)ether	7.062	93	2960	0.421	ng		97
9) Naphthalene	10.458	128	7201	0.399	ng		100
10) Hexachlorobutadiene	10.757	225	1616	0.414	ng	#	98
12) 2-Methylnaphthalene	12.082	142	4278	0.367	ng		100
16) Acenaphthylene	13.999	152	7225	0.411	ng		100
17) Acenaphthene	14.341	154	4406	0.382	ng		100
18) Fluorene	15.325	166	5893	0.390	ng		100
20) 4,6-Dinitro-2-methylph...	15.410	198	612	0.323	ng		91
21) 4-Bromophenyl-phenylether	16.227	248	1798	0.376	ng		96
22) Hexachlorobenzene	16.338	284	2026	0.387	ng		99
23) Atrazine	16.500	200	1554	0.403	ng		99
24) Pentachlorophenol	16.686	266	885	0.315	ng		99
25) Phenanthrene	17.058	178	9212	0.390	ng		100
26) Anthracene	17.157	178	8400	0.393	ng		100
28) Fluoranthene	19.091	202	10081	0.380	ng		99
30) Pyrene	19.453	202	10076	0.376	ng		100
32) Benzo(a)anthracene	21.197	228	8105	0.396	ng		98
33) Chrysene	21.251	228	8947	0.405	ng		99
34) Bis(2-ethylhexyl)phtha...	21.144	149	4190	0.360	ng		99
36) Indeno(1,2,3-cd)pyrene	25.640	276	6626	0.364	ng		99
37) Benzo(b)fluoranthene	22.763	252	7283	0.389	ng		99
38) Benzo(k)fluoranthene	22.810	252	7655	0.407	ng		98
39) Benzo(a)pyrene	23.330	252	6417	0.417	ng		97
40) Dibenzo(a,h)anthracene	25.663	278	5177	0.362	ng		99
41) Benzo(g,h,i)perylene	26.321	276	5705	0.359	ng		98

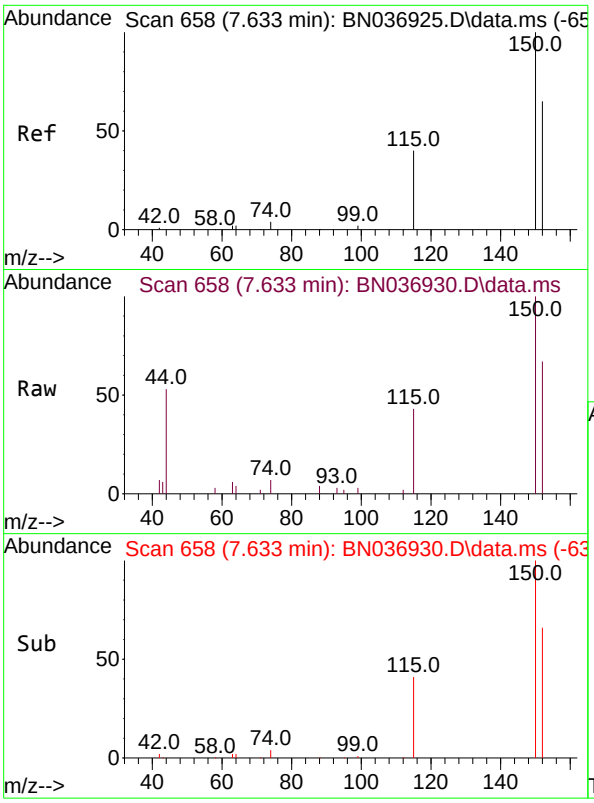
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042825\
Data File : BN036930.D
Acq On : 28 Apr 2025 15:51
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN042825

Quant Time: Apr 28 18:00:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:35:03 2025
Response via : Initial Calibration



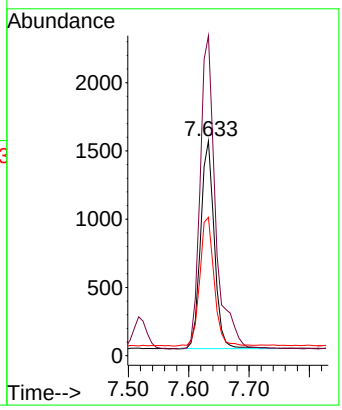


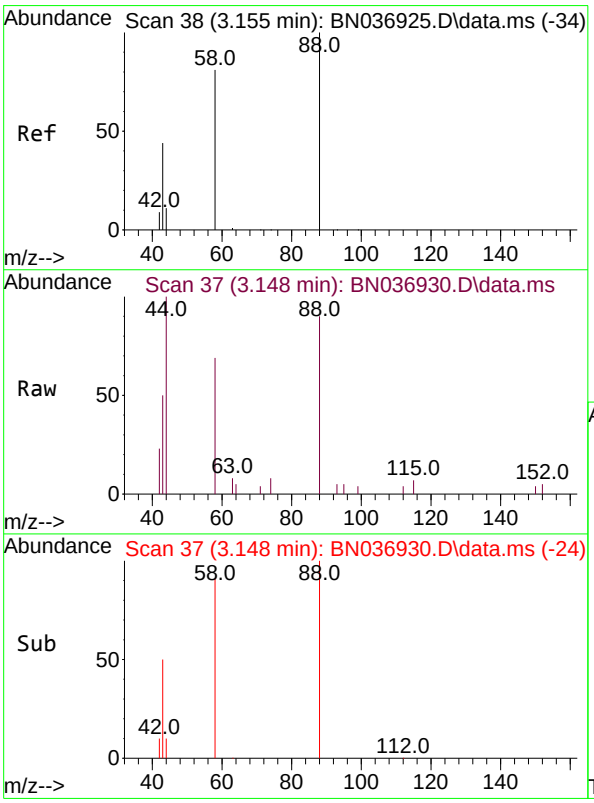
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.633 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

Instrument :
BNA_N
ClientSampleId :
ICVBN042825

Tgt Ion:152 Resp: 2409

Ion	Ratio	Lower	Upper
152	100		
150	149.0	121.1	181.7
115	64.5	51.8	77.6

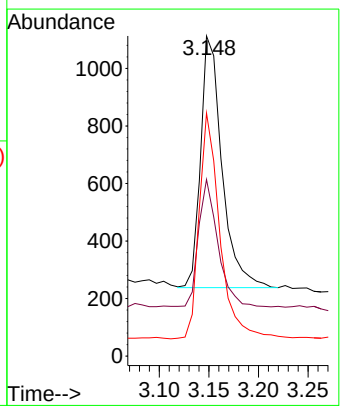


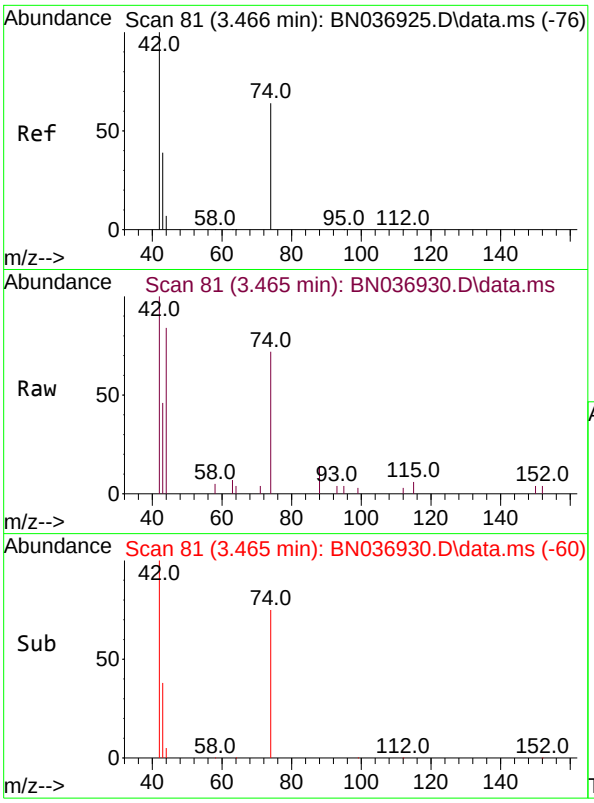


#2
1,4-Dioxane
Concen: 0.435 ng
RT: 3.148 min Scan# 37
Delta R.T. -0.007 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

Tgt Ion: 88 Resp: 1307

Ion	Ratio	Lower	Upper
88	100		
43	46.8	37.9	56.9
58	87.2	65.8	98.6



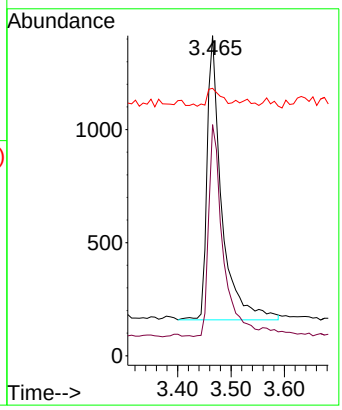


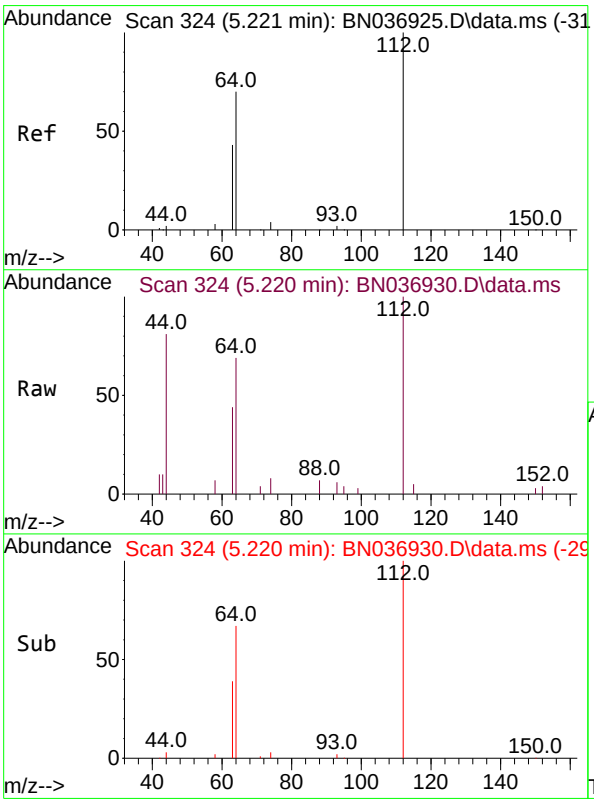
#3
n-Nitrosodimethylamine
Concen: 0.409 ng
RT: 3.465 min Scan# 8
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

Instrument :
BNA_N
ClientSampleId :
ICVBN042825

Tgt Ion: 42 Resp: 2382

Ion	Ratio	Lower	Upper
42	100		
74	73.5	59.9	89.9
44	6.3	7.5	11.3#

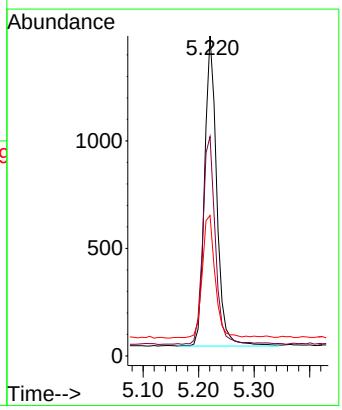


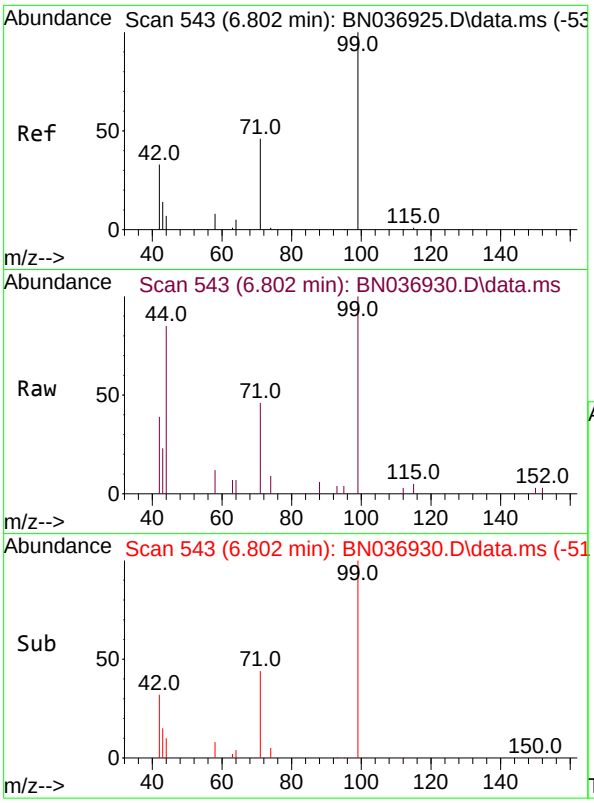


#4
2-Fluorophenol
Concen: 0.357 ng
RT: 5.220 min Scan# 324
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

Tgt Ion:112 Resp: 2200

Ion	Ratio	Lower	Upper
112	100		
64	69.0	55.7	83.5
63	41.9	33.9	50.9



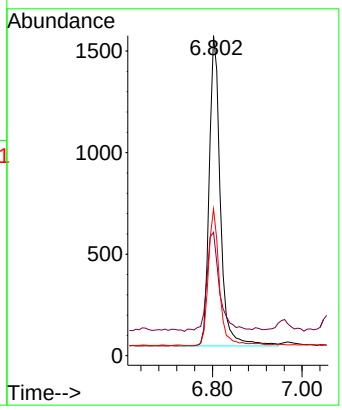


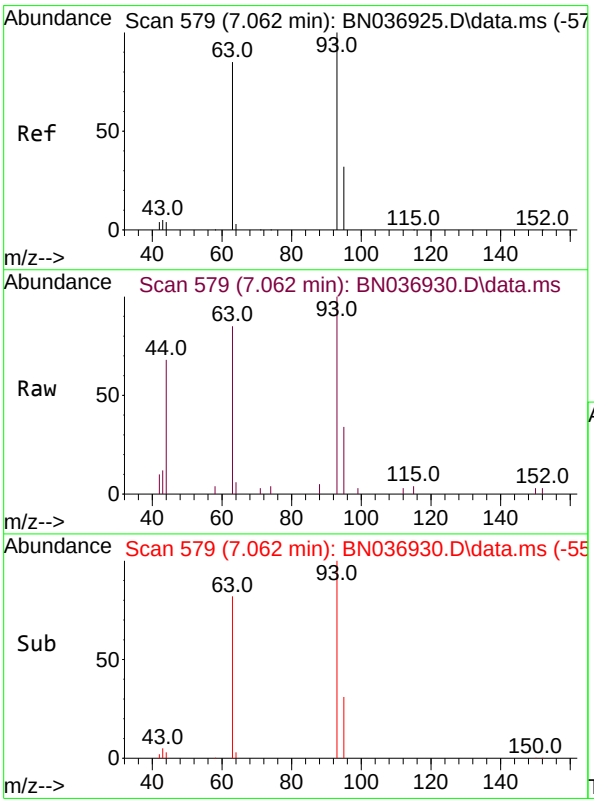
#5
Phenol-d6
Concen: 0.348 ng
RT: 6.802 min Scan# 54
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

Instrument :
BNA_N
ClientSampleId :
ICVBN042825

Tgt Ion: 99 Resp: 2639

Ion	Ratio	Lower	Upper
99	100		
42	36.9	29.6	44.4
71	43.1	36.0	54.0

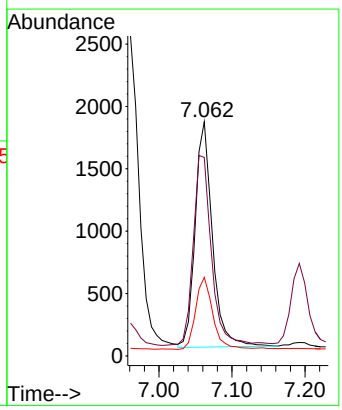


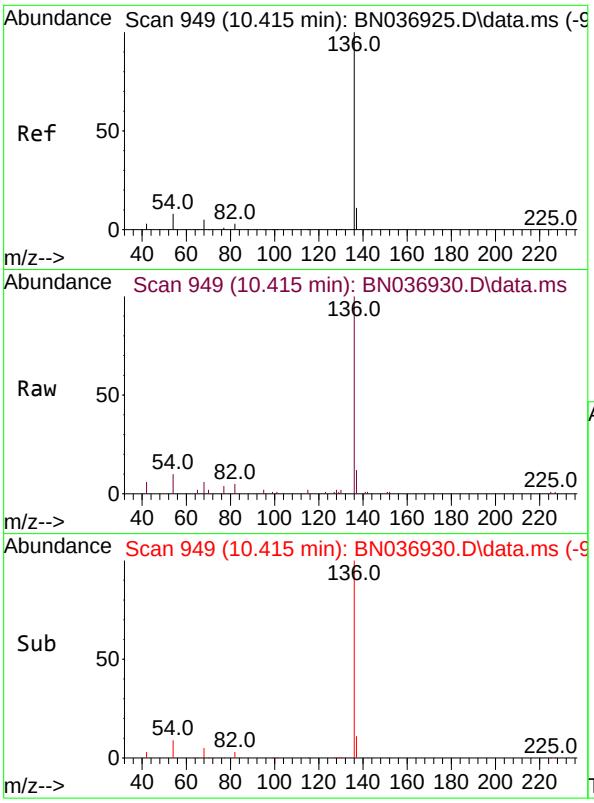


#6
bis(2-Chloroethyl)ether
Concen: 0.421 ng
RT: 7.062 min Scan# 579
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

Tgt Ion: 93 Resp: 2960

Ion	Ratio	Lower	Upper
93	100		
63	89.5	69.0	103.6
95	31.8	25.4	38.0



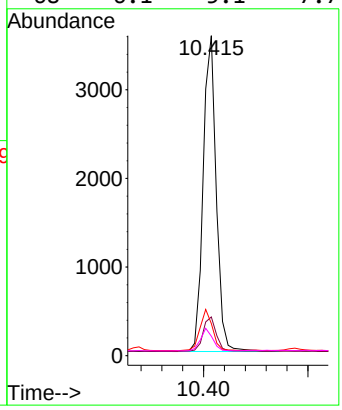


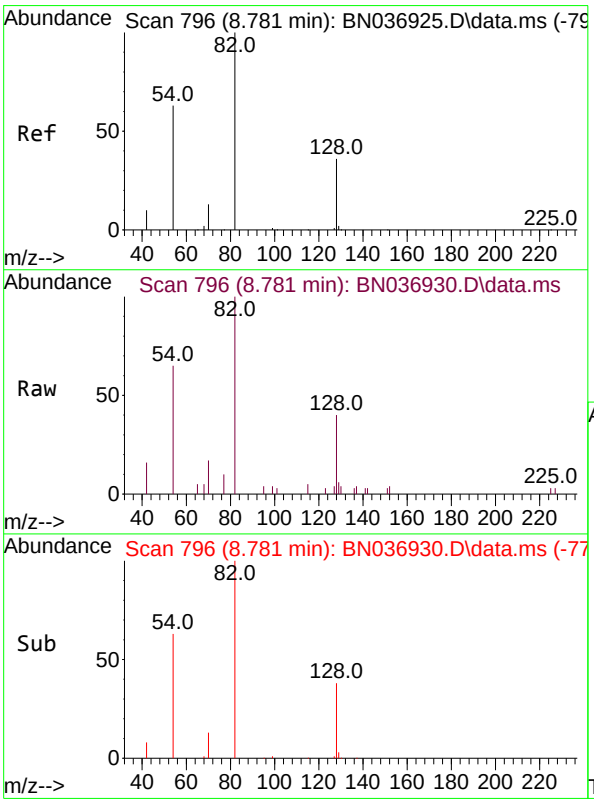
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.415 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

Instrument :
BNA_N
ClientSampleId :
ICVBN042825

Tgt Ion:136 Resp: 6199

Ion	Ratio	Lower	Upper
136	100		
137	12.1	9.7	14.5
54	10.1	8.0	12.0
68	6.1	5.1	7.7

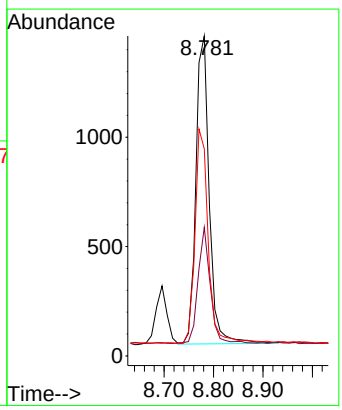


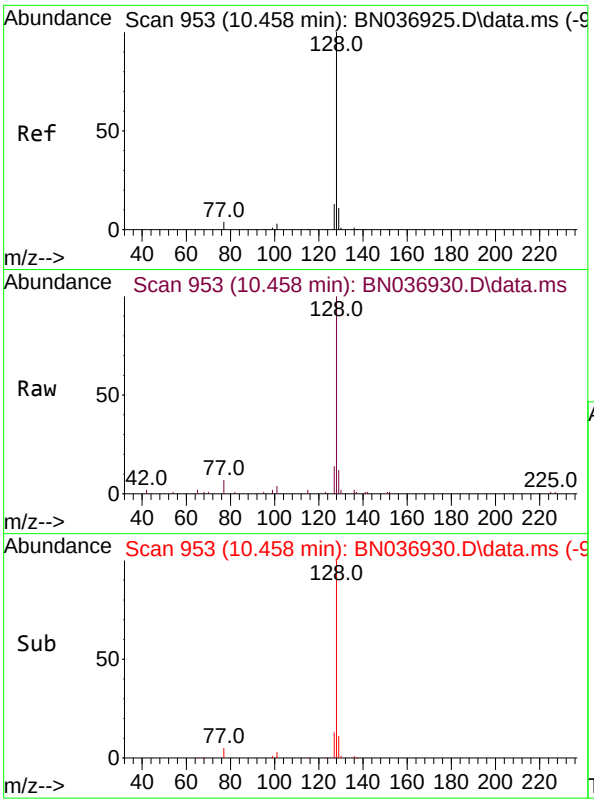


#8
Nitrobenzene-d5
Concen: 0.408 ng
RT: 8.781 min Scan# 796
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

Tgt Ion: 82 Resp: 2643

Ion	Ratio	Lower	Upper
82	100		
128	40.2	30.7	46.1
54	64.7	52.1	78.1



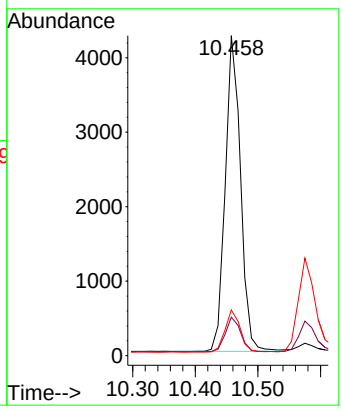


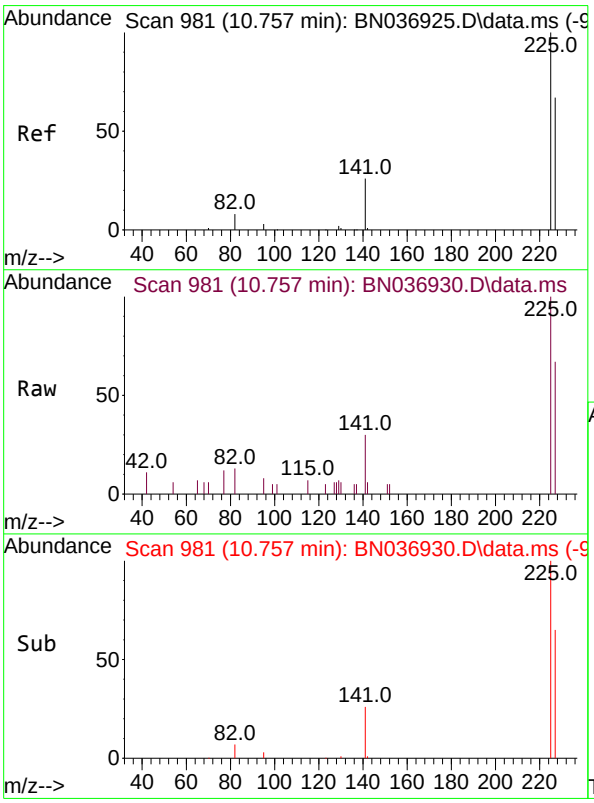
#9
Naphthalene
Concen: 0.399 ng
RT: 10.458 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

Instrument :
BNA_N
ClientSampleId :
ICVBN042825

Tgt Ion:128 Resp: 7201

Ion	Ratio	Lower	Upper
128	100		
129	12.1	9.8	14.6
127	14.3	11.4	17.2

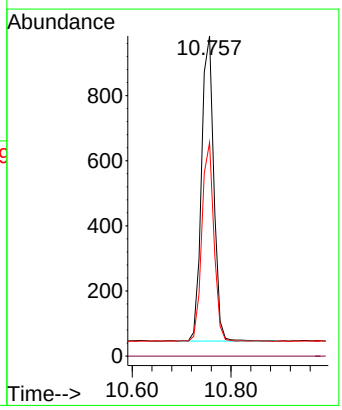


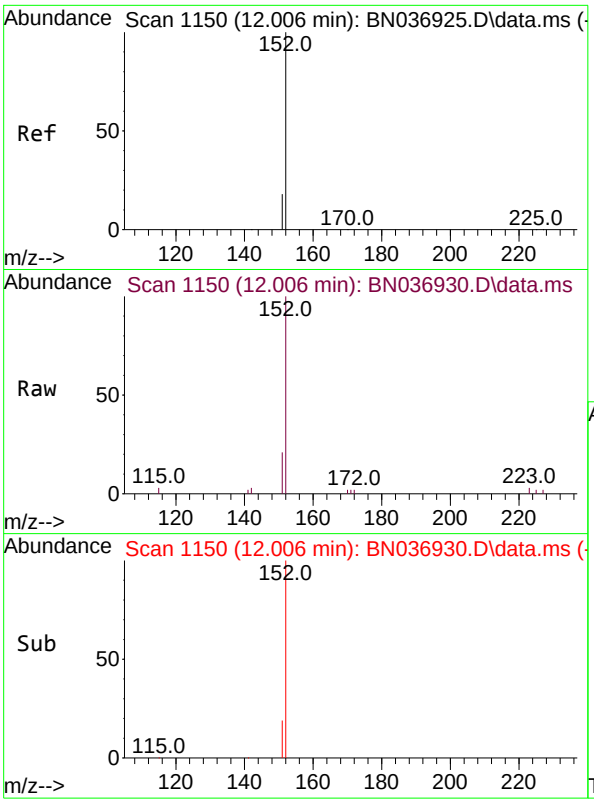


#10
Hexachlorobutadiene
Concen: 0.414 ng
RT: 10.757 min Scan# 981
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

Tgt Ion:225 Resp: 1616

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.5	52.2	78.4



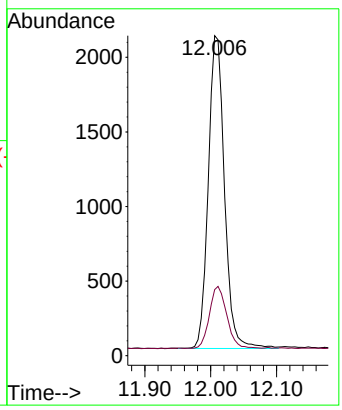


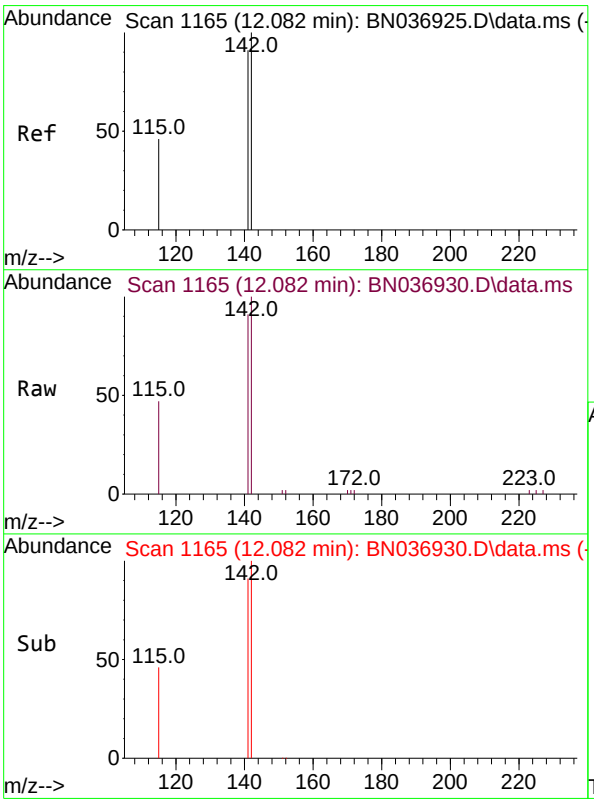
#11
2-Methylnaphthalene-d10
Concen: 0.411 ng
RT: 12.006 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

Instrument :
BNA_N
ClientSampleId :
ICVBN042825

Tgt Ion:152 Resp: 3565

Ion	Ratio	Lower	Upper
152	100		
151	21.3	16.9	25.3

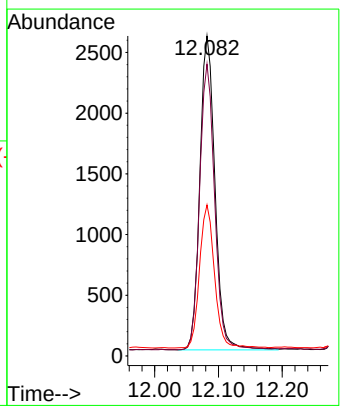


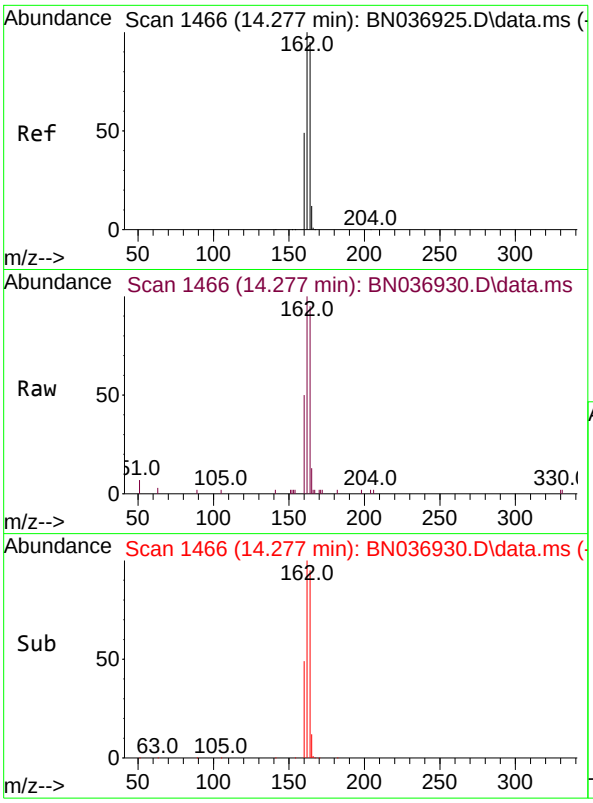


#12
2-Methylnaphthalene
Concen: 0.367 ng
RT: 12.082 min Scan# 1165
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

Tgt Ion:142 Resp: 4278

Ion	Ratio	Lower	Upper
142	100		
141	91.2	72.8	109.2
115	47.2	38.2	57.4



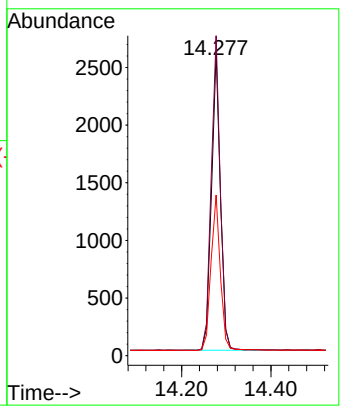


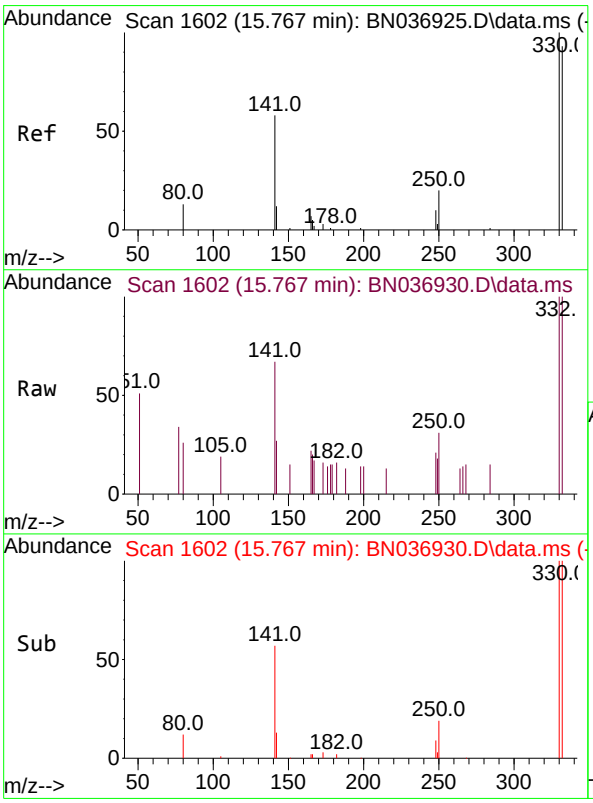
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.277 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

Instrument :
BNA_N
ClientSampleId :
ICVBN042825

Tgt Ion:164 Resp: 3595

Ion	Ratio	Lower	Upper
164	100		
162	105.4	83.8	125.8
160	52.9	42.0	63.0

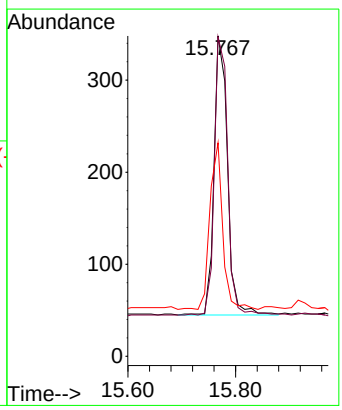


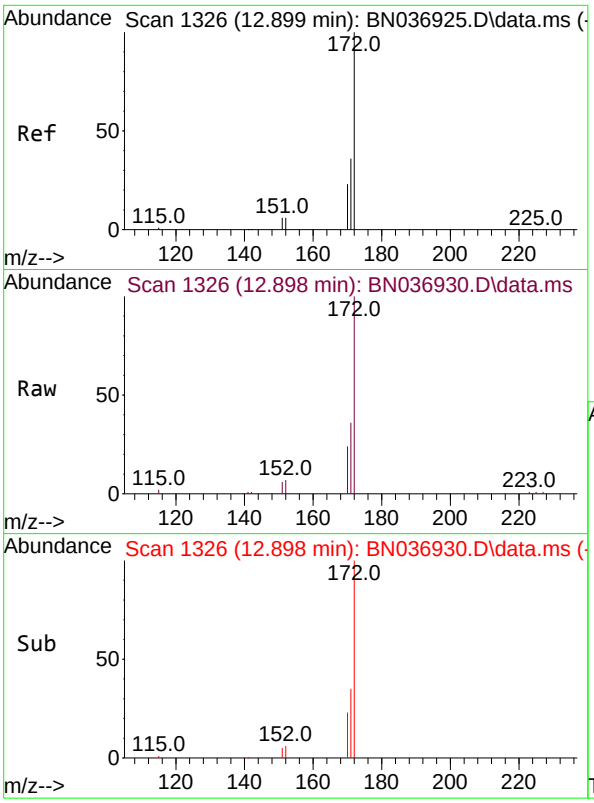


#14
2,4,6-Tribromophenol
Concen: 0.327 ng
RT: 15.767 min Scan# 1602
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

Tgt Ion:330 Resp: 524

Ion	Ratio	Lower	Upper
330	100		
332	98.9	76.3	114.5
141	56.5	45.4	68.2



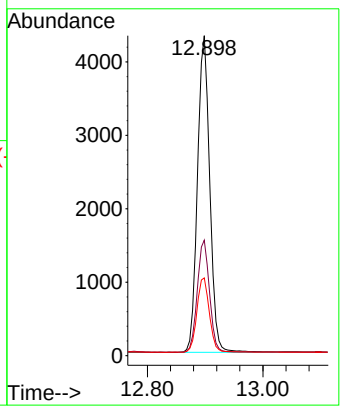


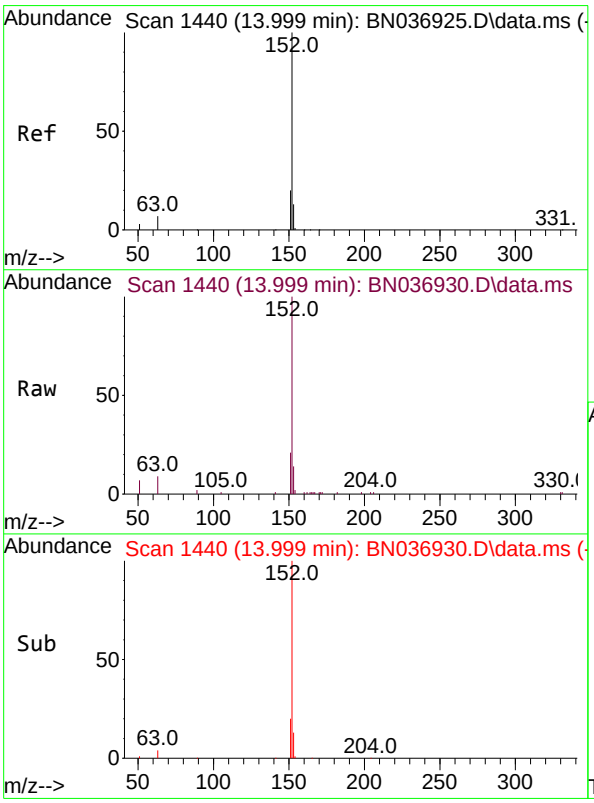
#15
2-Fluorobiphenyl
Concen: 0.391 ng
RT: 12.898 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

Instrument :
BNA_N
ClientSampleId :
ICVBN042825

Tgt Ion:172 Resp: 6791

Ion	Ratio	Lower	Upper
172	100		
171	36.1	29.4	44.0
170	24.3	19.4	29.0

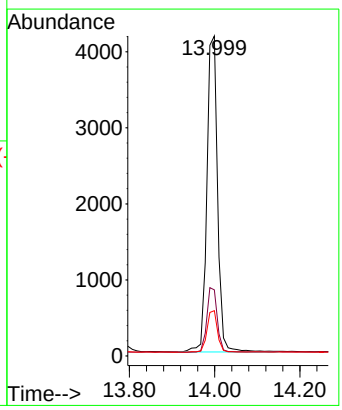


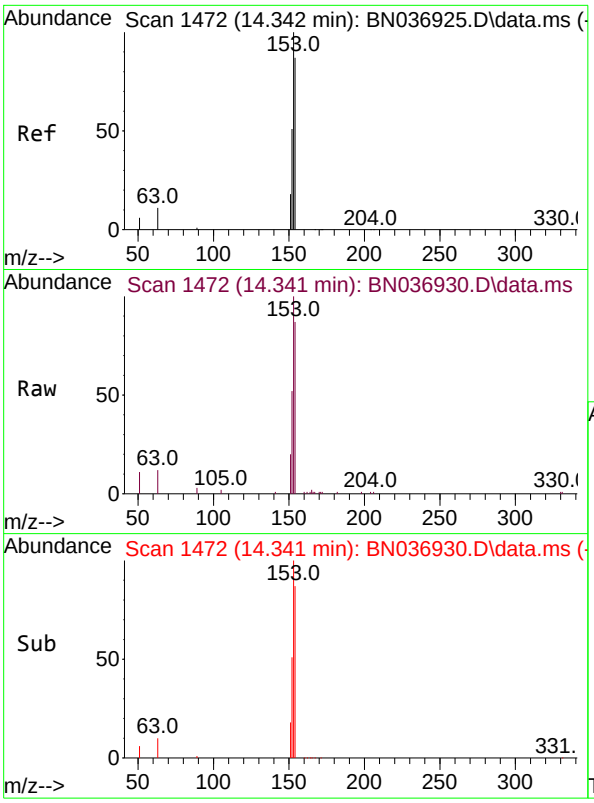


#16
Acenaphthylene
Concen: 0.411 ng
RT: 13.999 min Scan# 1440
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

Tgt Ion:152 Resp: 7225

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.0	24.0
153	13.0	10.2	15.2



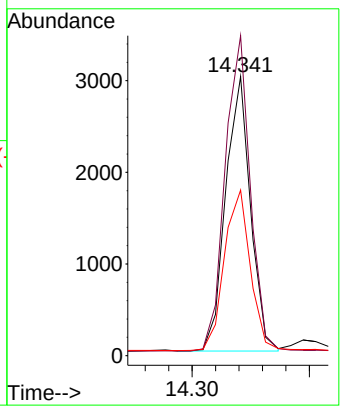


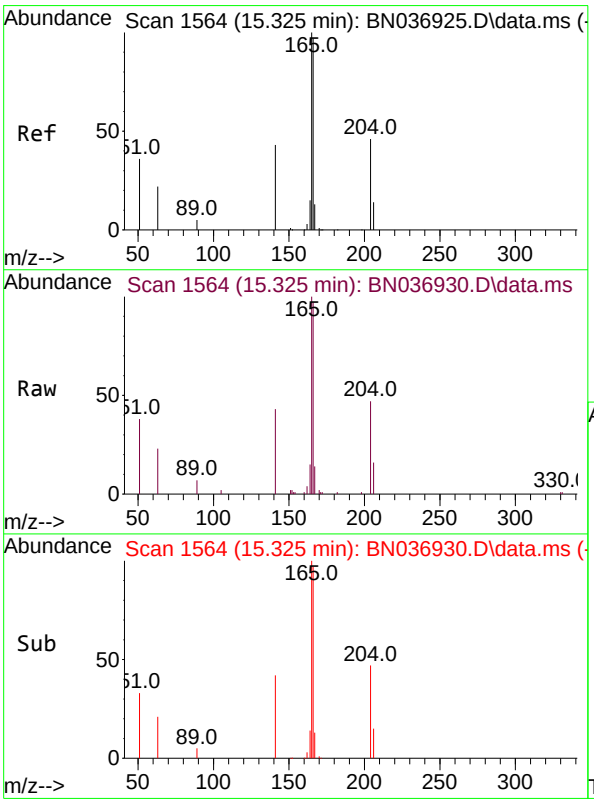
#17
Acenaphthene
Concen: 0.382 ng
RT: 14.341 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

Instrument :
BNA_N
ClientSampleId :
ICVBN042825

Tgt Ion:154 Resp: 4406

Ion	Ratio	Lower	Upper
154	100		
153	116.8	93.4	140.2
152	61.9	49.5	74.3

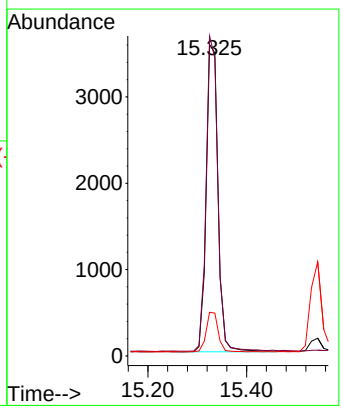


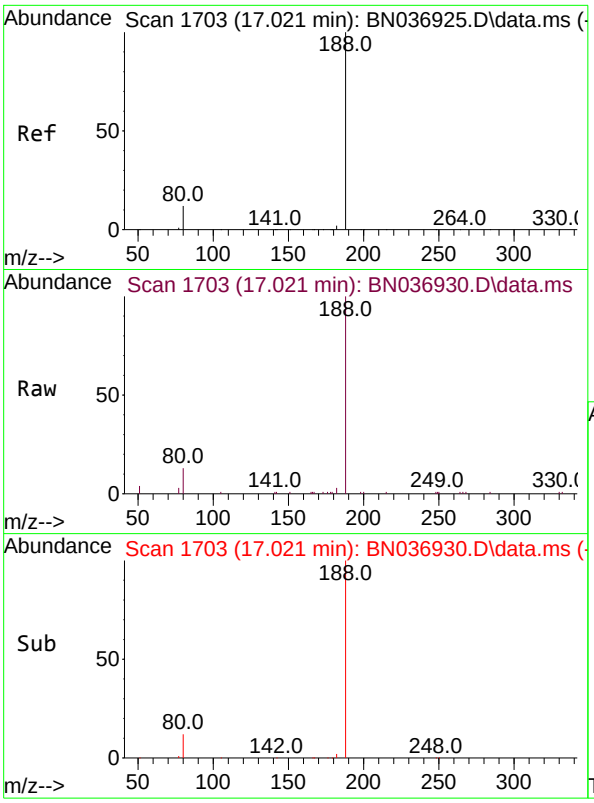


#18
Fluorene
Concen: 0.390 ng
RT: 15.325 min Scan# 1564
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

Tgt Ion:166 Resp: 5893

Ion	Ratio	Lower	Upper
166	100		
165	100.7	80.8	121.2
167	13.3	10.8	16.2



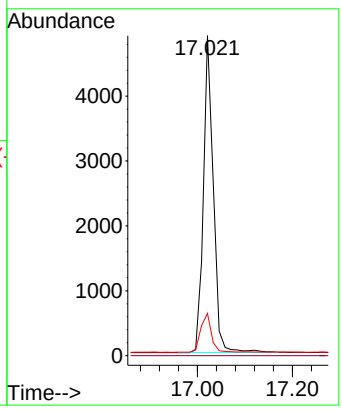


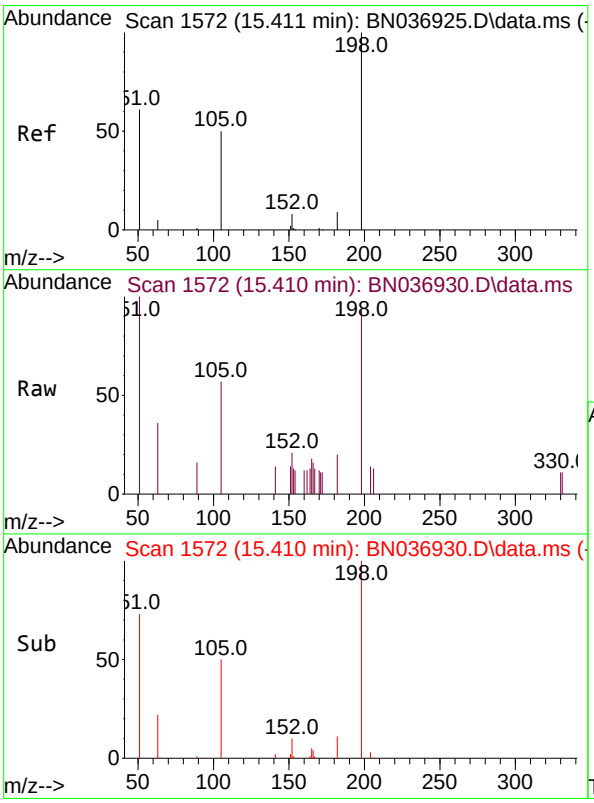
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.021 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

Instrument :
BNA_N
ClientSampleId :
ICVBN042825

Tgt Ion:188 Resp: 7165

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	13.2	10.7	16.1

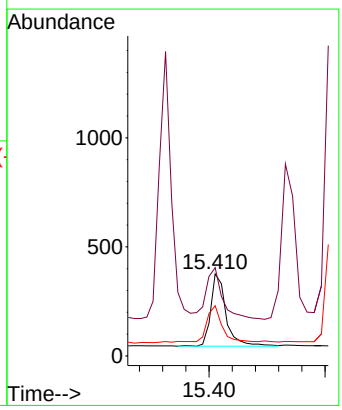


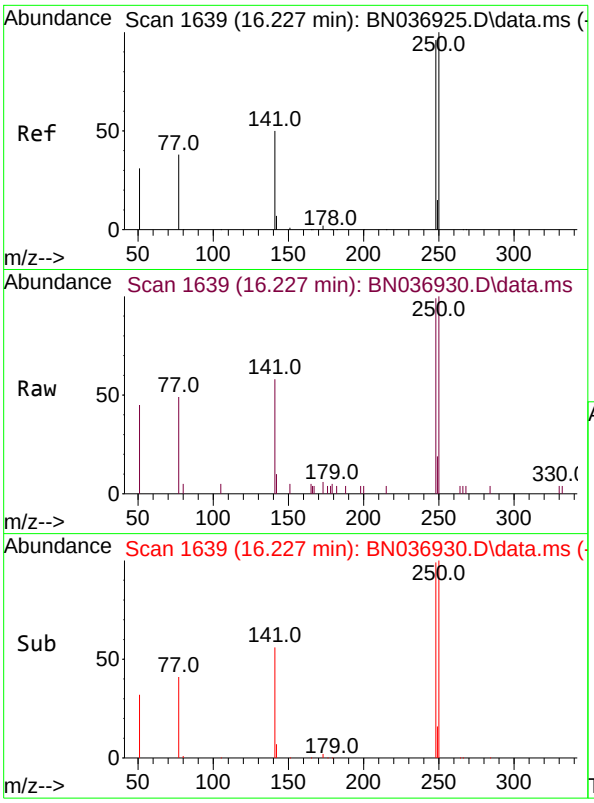


#20
4,6-Dinitro-2-methylphenol
Concen: 0.323 ng
RT: 15.410 min Scan# 1572
Delta R.T. -0.001 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

Tgt Ion:198 Resp: 612

Ion	Ratio	Lower	Upper
198	100		
51	107.7	97.9	146.9
105	61.2	50.0	75.0



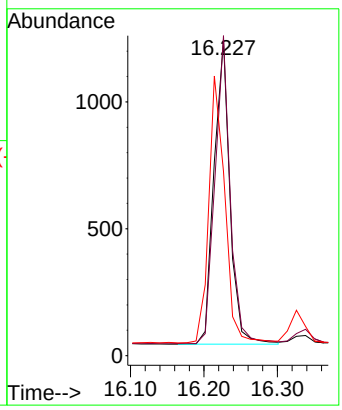


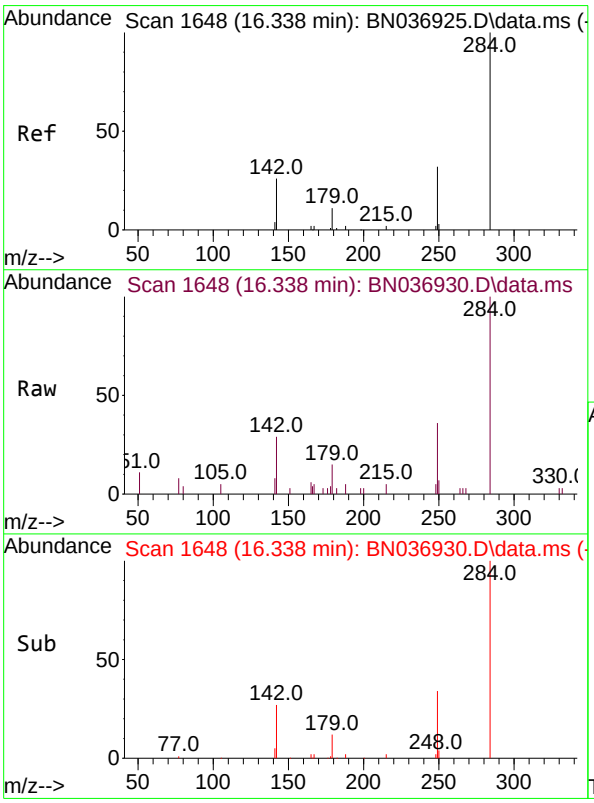
#21
4-Bromophenyl-phenylether
Concen: 0.376 ng
RT: 16.227 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

Instrument :
BNA_N
ClientSampleId :
ICVBN042825

Tgt Ion:248 Resp: 1798

Ion	Ratio	Lower	Upper
248	100		
250	101.3	83.7	125.5
141	58.3	43.8	65.8

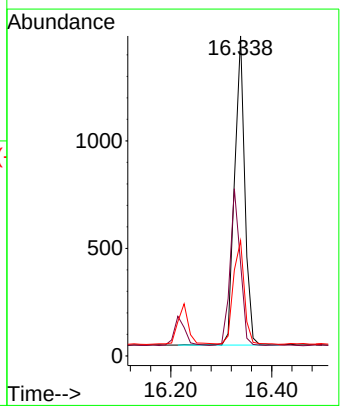


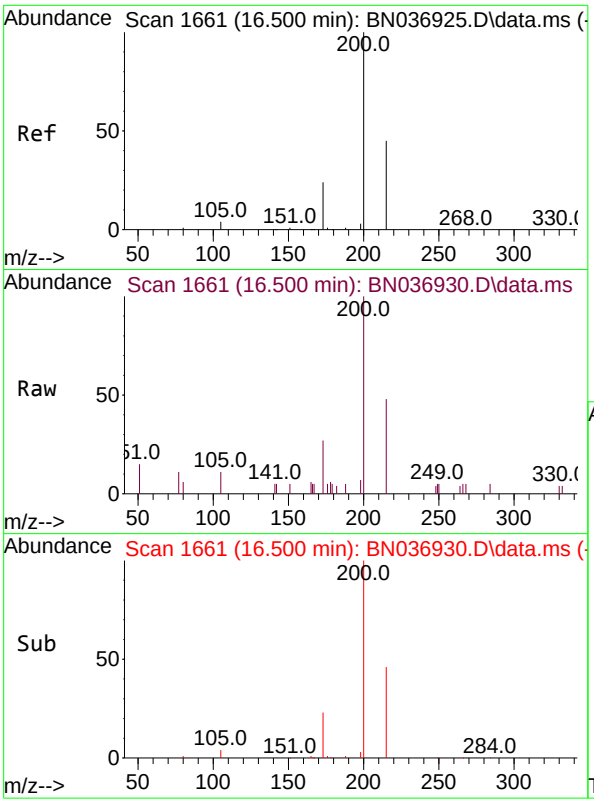


#22
Hexachlorobenzene
Concen: 0.387 ng
RT: 16.338 min Scan# 1648
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

Tgt Ion:284 Resp: 2026

Ion	Ratio	Lower	Upper
284	100		
142	50.7	40.0	60.0
249	36.4	28.2	42.2



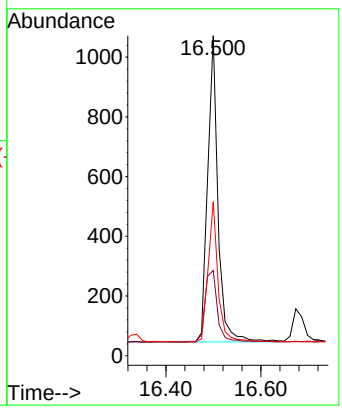


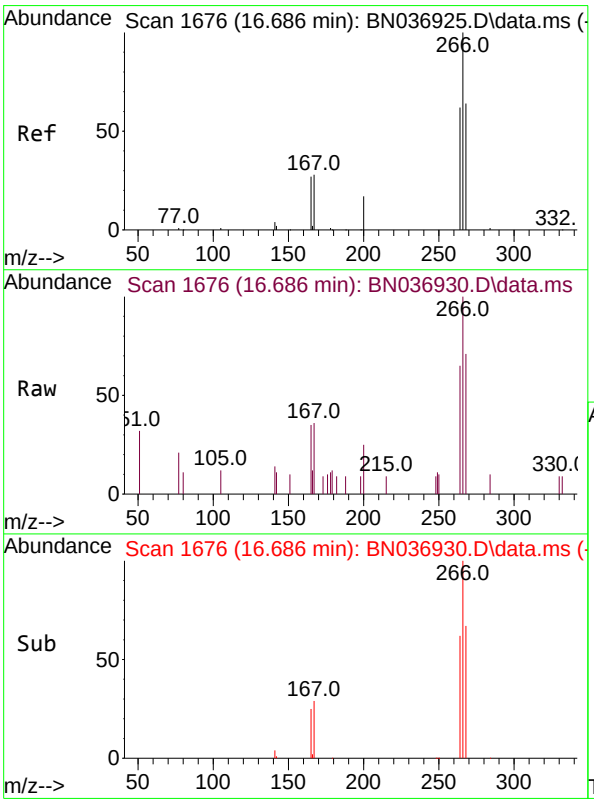
#23
Atrazine
Concen: 0.403 ng
RT: 16.500 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

Instrument :
BNA_N
ClientSampleId :
ICVBN042825

Tgt Ion:200 Resp: 1554

Ion	Ratio	Lower	Upper
200	100		
173	26.7	22.4	33.6
215	48.1	38.6	57.8

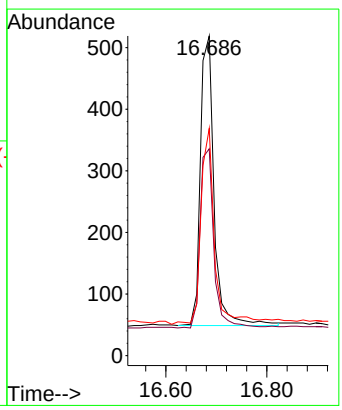


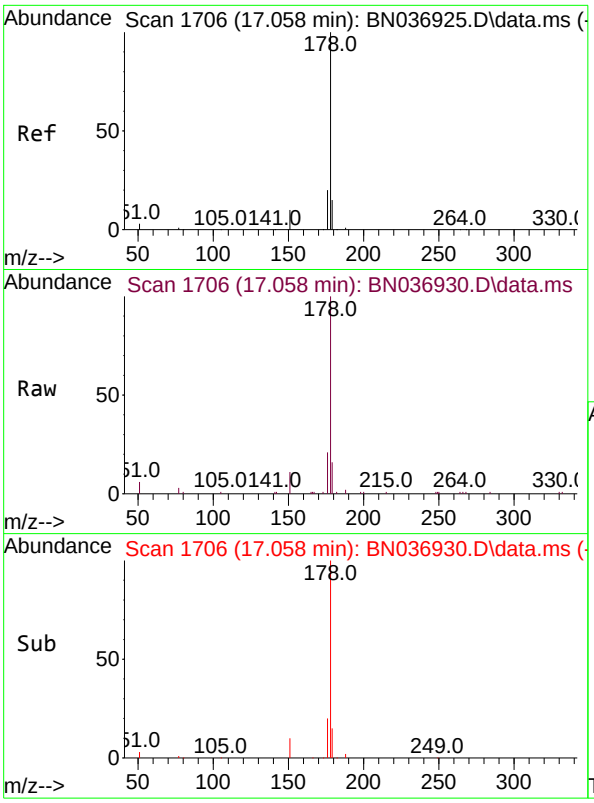


#24
Pentachlorophenol
Concen: 0.315 ng
RT: 16.686 min Scan# 1676
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

Tgt Ion:266 Resp: 885

Ion	Ratio	Lower	Upper
266	100		
264	62.4	49.9	74.9
268	67.1	52.2	78.4



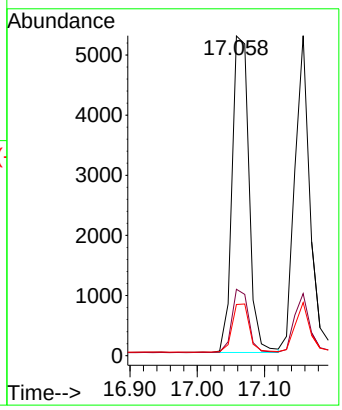


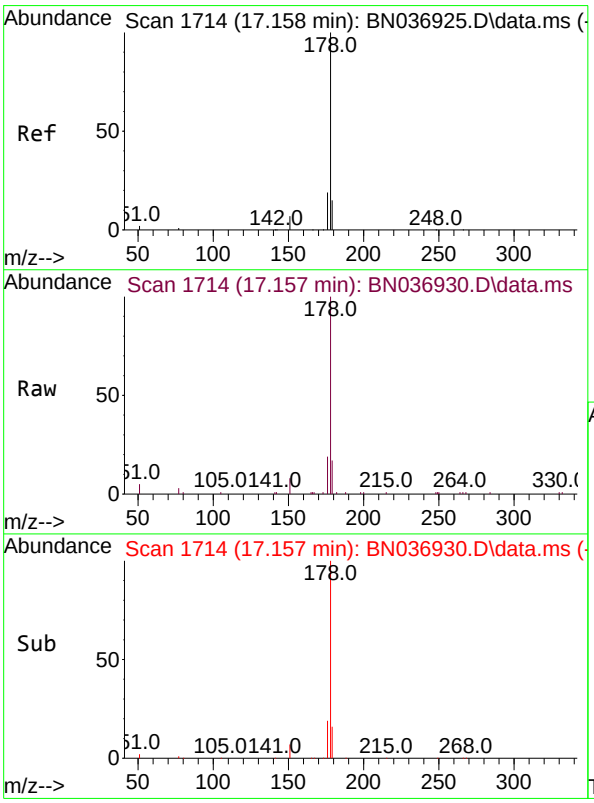
#25
Phenanthrene
Concen: 0.390 ng
RT: 17.058 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

Instrument :
BNA_N
ClientSampleId :
ICVBN042825

Tgt Ion:178 Resp: 9212

Ion	Ratio	Lower	Upper
178	100		
176	19.8	15.7	23.5
179	15.5	12.4	18.6

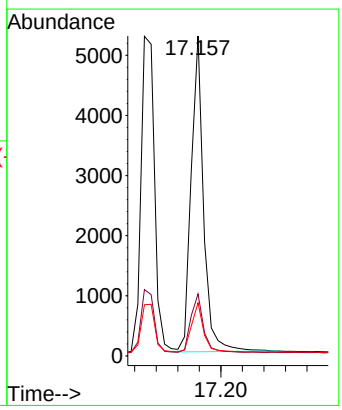


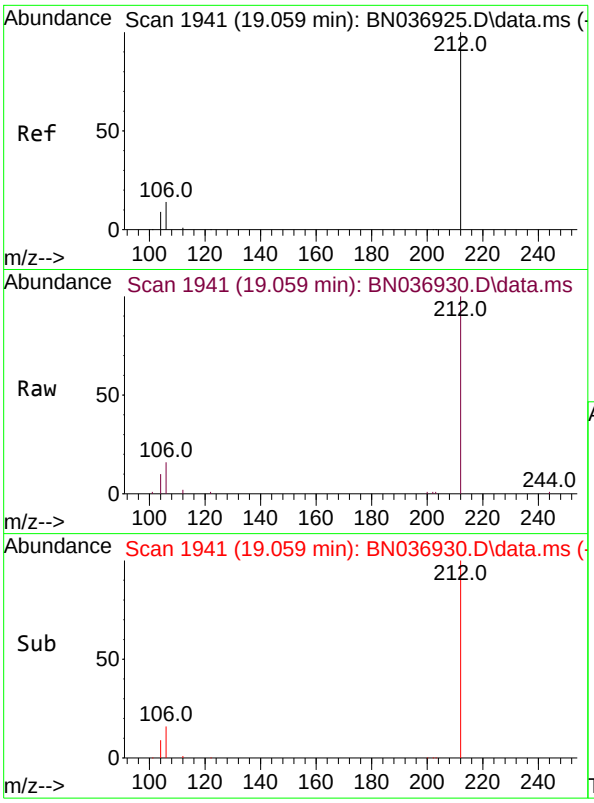


#26
Anthracene
Concen: 0.393 ng
RT: 17.157 min Scan# 1714
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

Tgt Ion:178 Resp: 8400

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.3	22.9
179	15.1	12.1	18.1



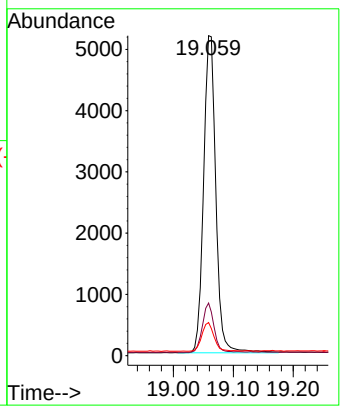


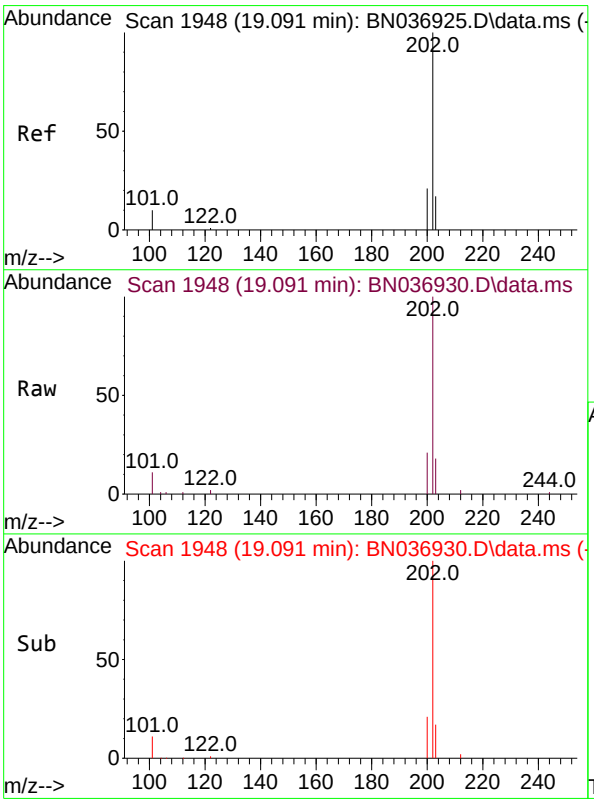
#27
Fluoranthene-d10
Concen: 0.396 ng
RT: 19.059 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

Instrument :
BNA_N
ClientSampleId :
ICVBN042825

Tgt Ion:212 Resp: 7362

Ion	Ratio	Lower	Upper
212	100		
106	14.7	11.6	17.4
104	9.0	7.0	10.4

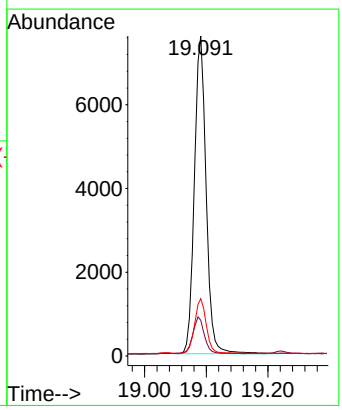


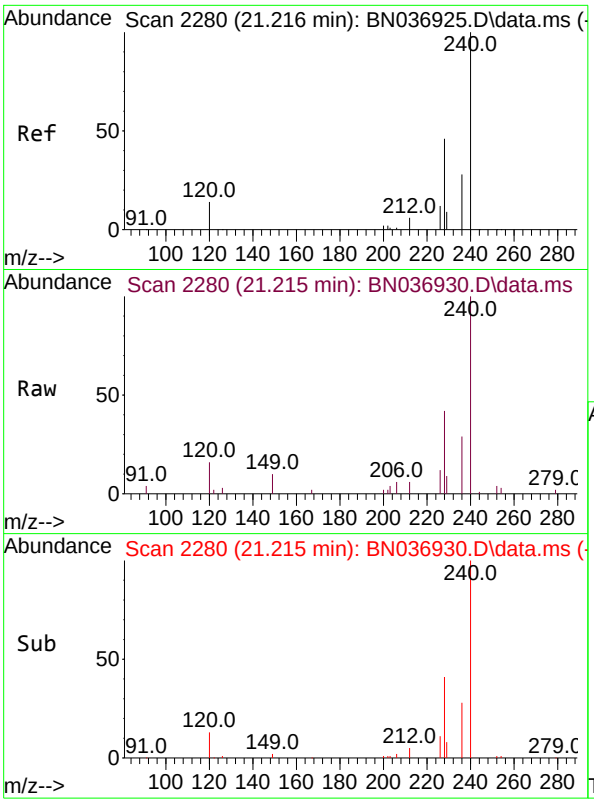


#28
Fluoranthene
Concen: 0.380 ng
RT: 19.091 min Scan# 1948
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

Tgt Ion:202 Resp: 10081

Ion	Ratio	Lower	Upper
202	100		
101	11.4	8.5	12.7
203	17.0	13.7	20.5



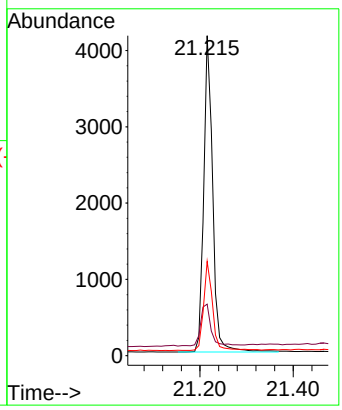


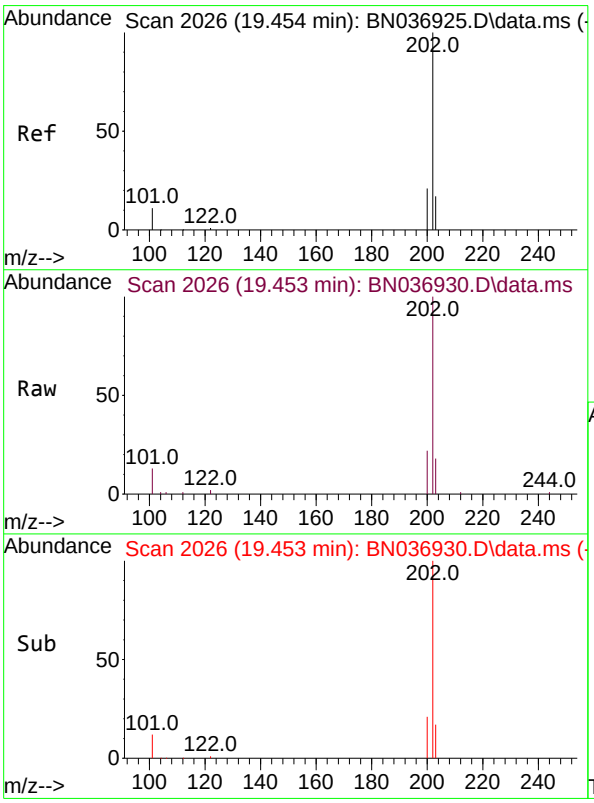
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.215 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

Instrument :
BNA_N
ClientSampleId :
ICVBN042825

Tgt Ion:240 Resp: 5561

Ion	Ratio	Lower	Upper
240	100		
120	16.1	14.1	21.1
236	29.5	23.8	35.8

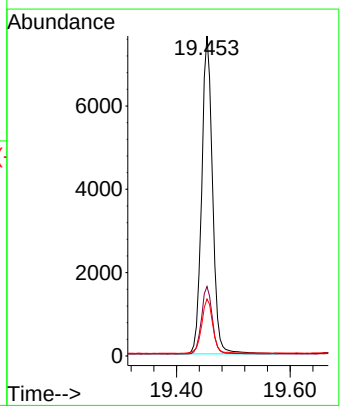


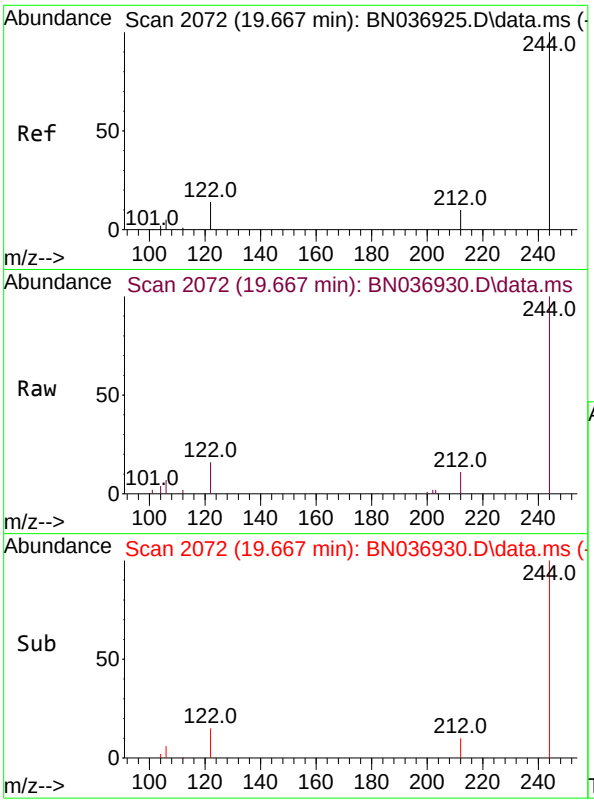


#30
Pyrene
Concen: 0.376 ng
RT: 19.453 min Scan# 2026
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

Tgt Ion:202 Resp: 10076

Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.0	25.6
203	17.6	14.0	21.0



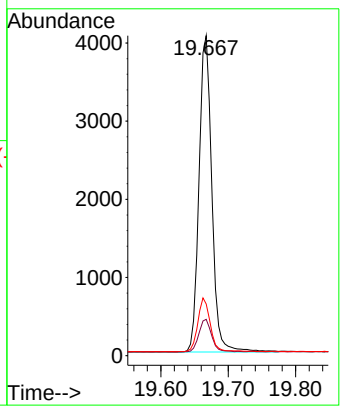


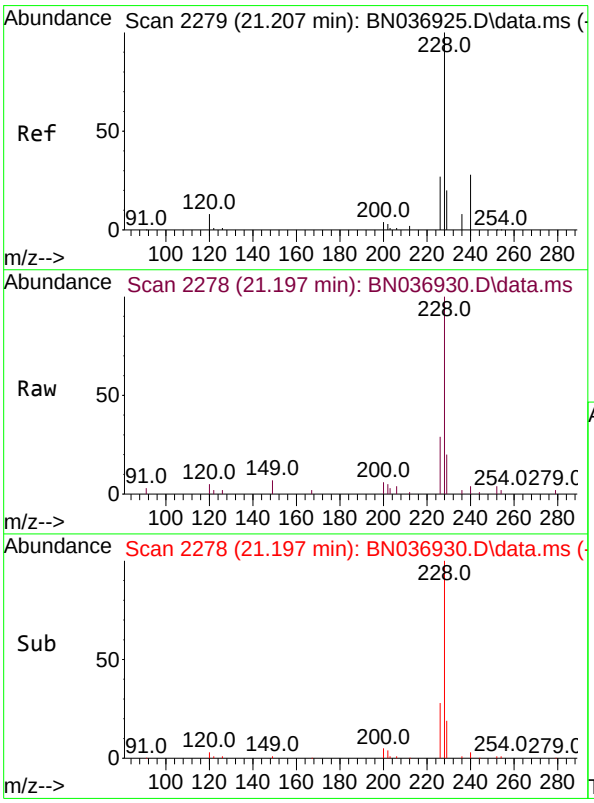
#31
Terphenyl-d14
Concen: 0.407 ng
RT: 19.667 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

Instrument :
BNA_N
ClientSampleId :
ICVBN042825

Tgt Ion:244 Resp: 5345

Ion	Ratio	Lower	Upper
244	100		
212	11.3	9.6	14.4
122	16.2	12.7	19.1

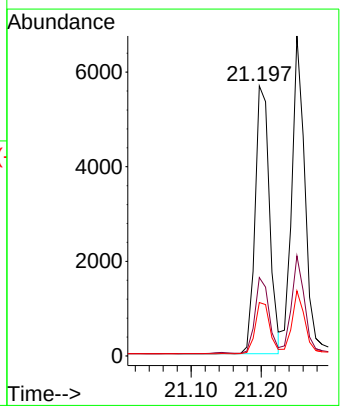


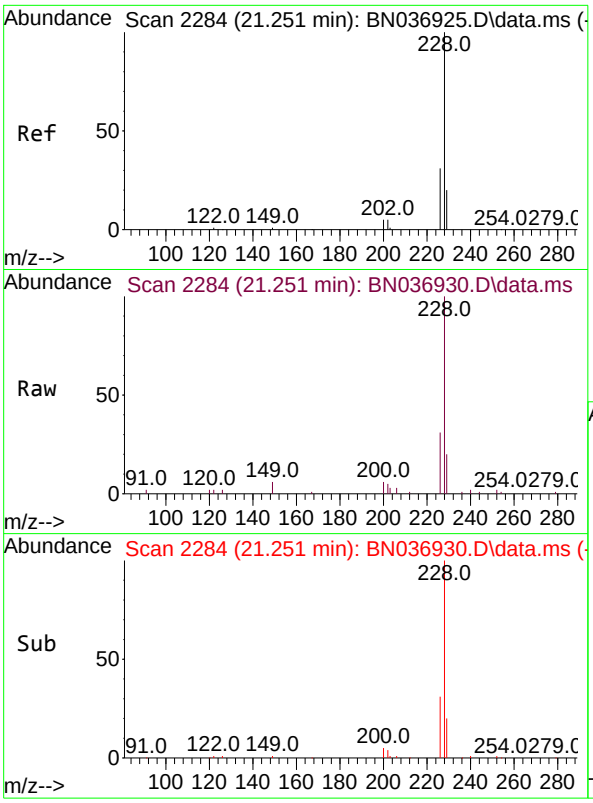


#32
Benzo(a)anthracene
Concen: 0.396 ng
RT: 21.197 min Scan# 2278
Delta R.T. -0.009 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

Tgt Ion:228 Resp: 8105

Ion	Ratio	Lower	Upper
228	100		
226	29.1	22.2	33.4
229	19.8	16.4	24.6



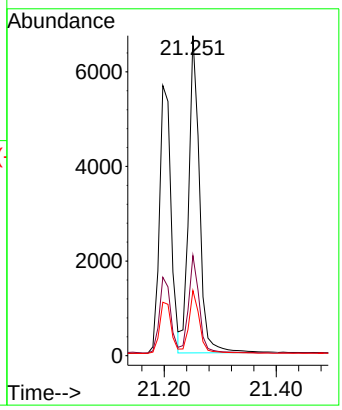


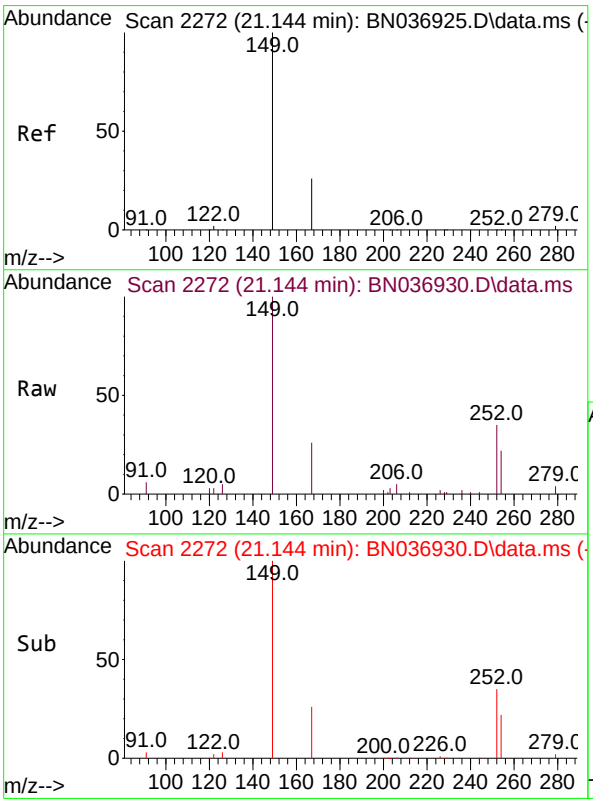
#33
Chrysene
Concen: 0.405 ng
RT: 21.251 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

Instrument :
BNA_N
ClientSampleId :
ICVBN042825

Tgt Ion:228 Resp: 8947

Ion	Ratio	Lower	Upper
228	100		
226	31.3	25.5	38.3
229	20.4	16.5	24.7

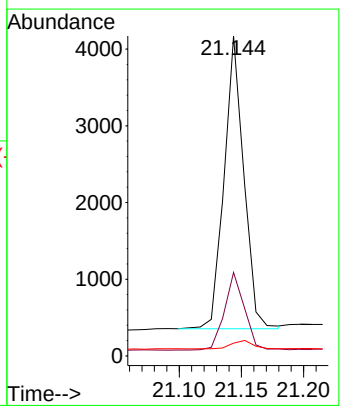


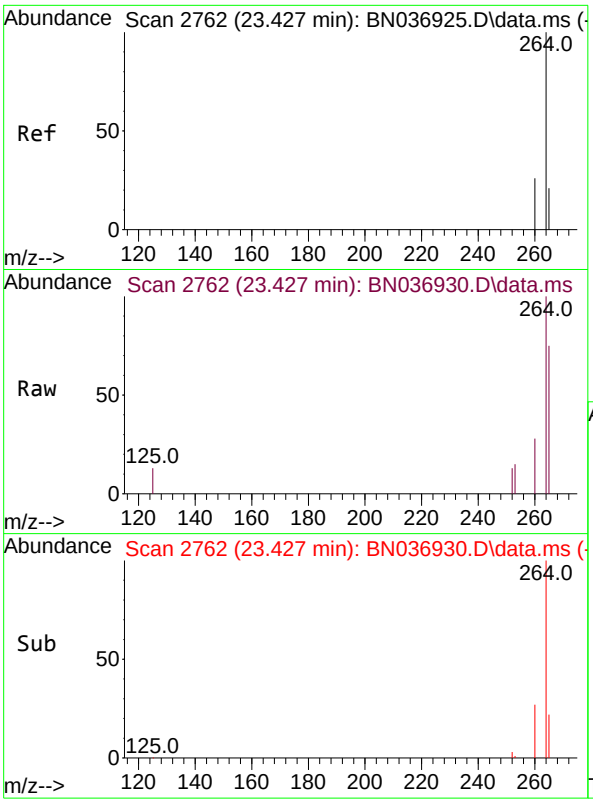


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.360 ng
RT: 21.144 min Scan# 2272
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

Tgt Ion:149 Resp: 4190

Ion	Ratio	Lower	Upper
149	100		
167	27.1	21.0	31.6
279	3.2	2.7	4.1



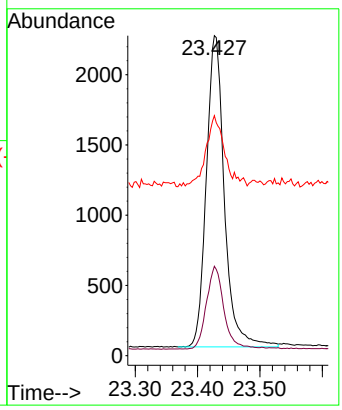


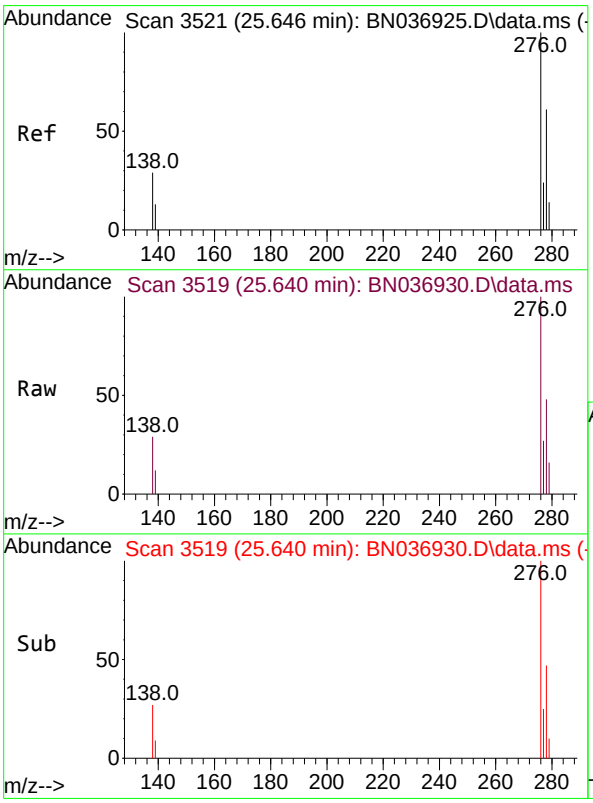
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.427 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

Instrument :
BNA_N
ClientSampleId :
ICVBN042825

Tgt Ion:264 Resp: 4453

Ion	Ratio	Lower	Upper
264	100		
260	28.0	22.2	33.2
265	75.0	65.8	98.6

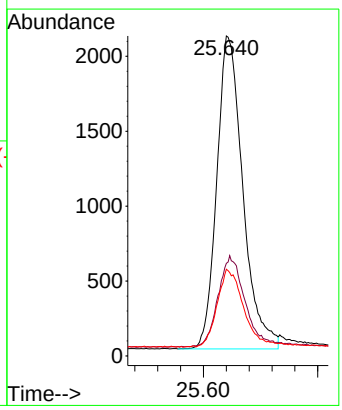


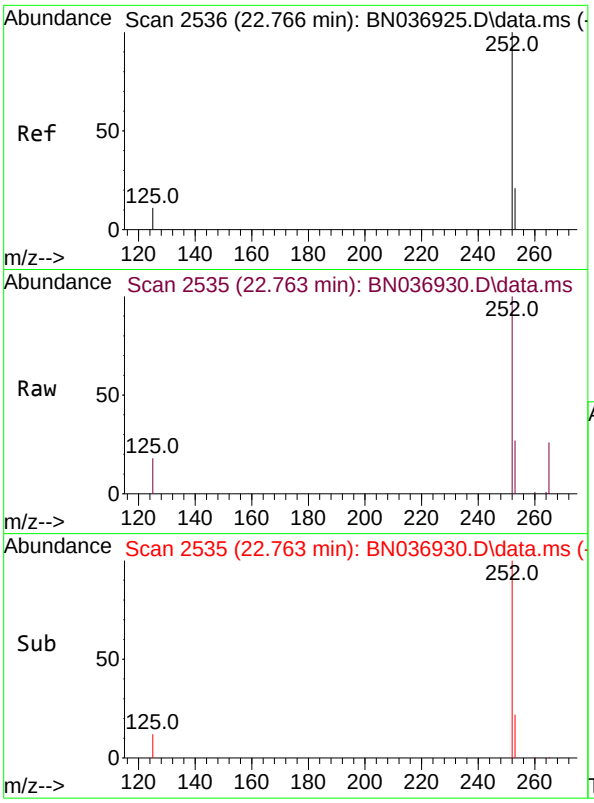


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.364 ng
RT: 25.640 min Scan# 3519
Delta R.T. -0.006 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

Tgt Ion:276 Resp: 6626

Ion	Ratio	Lower	Upper
276	100		
138	29.6	23.0	34.6
277	24.9	20.0	30.0



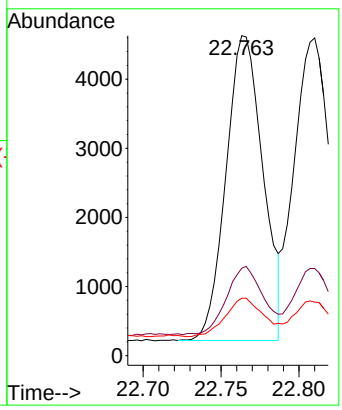


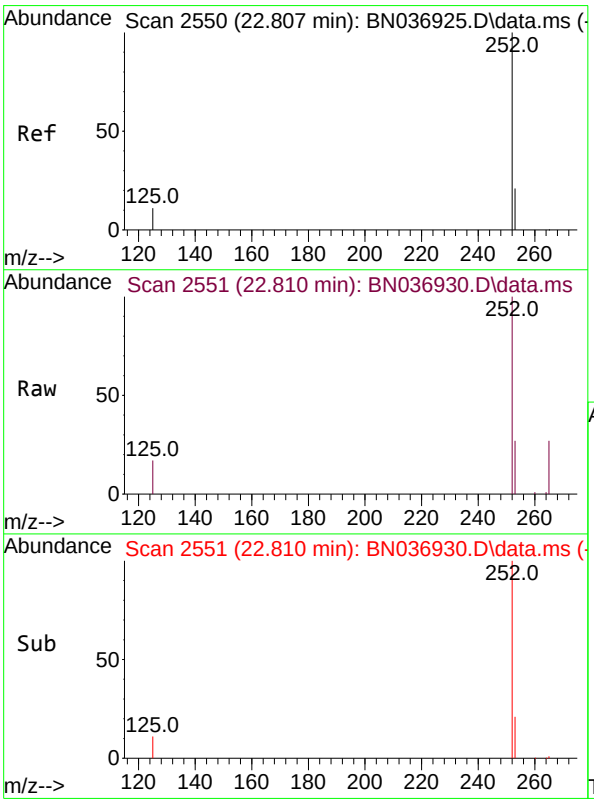
#37
Benzo(b)fluoranthene
Concen: 0.389 ng
RT: 22.763 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

Instrument :
BNA_N
ClientSampleId :
ICVBN042825

Tgt Ion:252 Resp: 7283

Ion	Ratio	Lower	Upper
252	100		
253	27.3	22.1	33.1
125	18.0	14.2	21.2

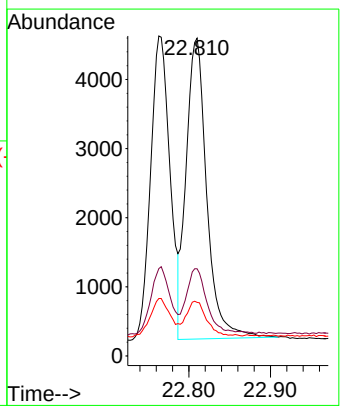


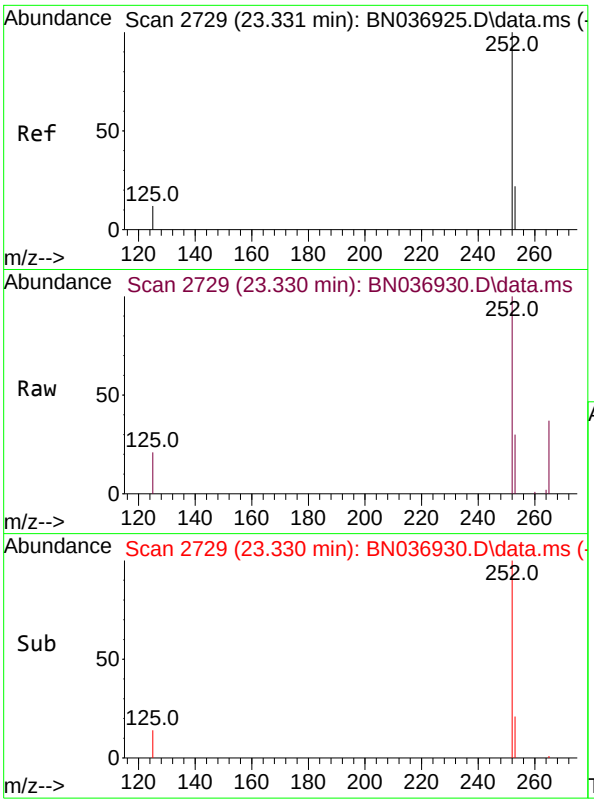


#38
Benzo(k)fluoranthene
Concen: 0.407 ng
RT: 22.810 min Scan# 2551
Delta R.T. 0.003 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

Tgt Ion:252 Resp: 7655

Ion	Ratio	Lower	Upper
252	100		
253	27.4	22.8	34.2
125	16.9	14.2	21.2



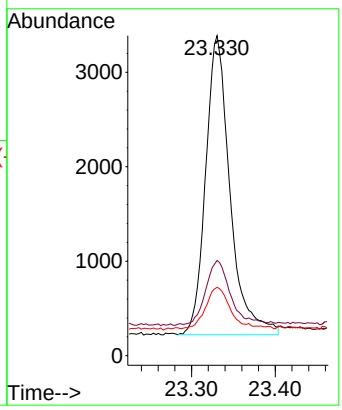


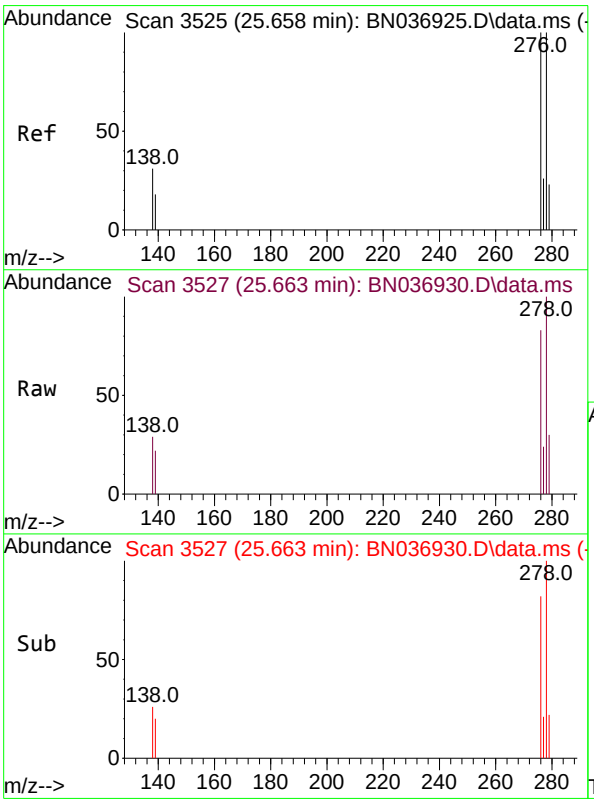
#39
Benzo(a)pyrene
Concen: 0.417 ng
RT: 23.330 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

Instrument :
BNA_N
ClientSampleId :
ICVBN042825

Tgt Ion:252 Resp: 6417

Ion	Ratio	Lower	Upper
252	100		
253	29.8	25.9	38.9
125	21.3	17.4	26.0

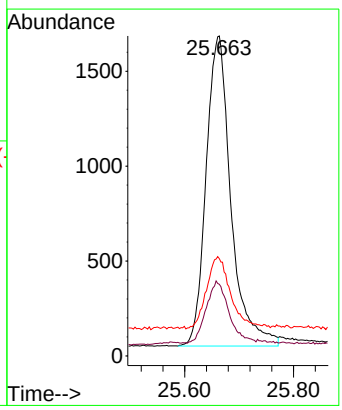


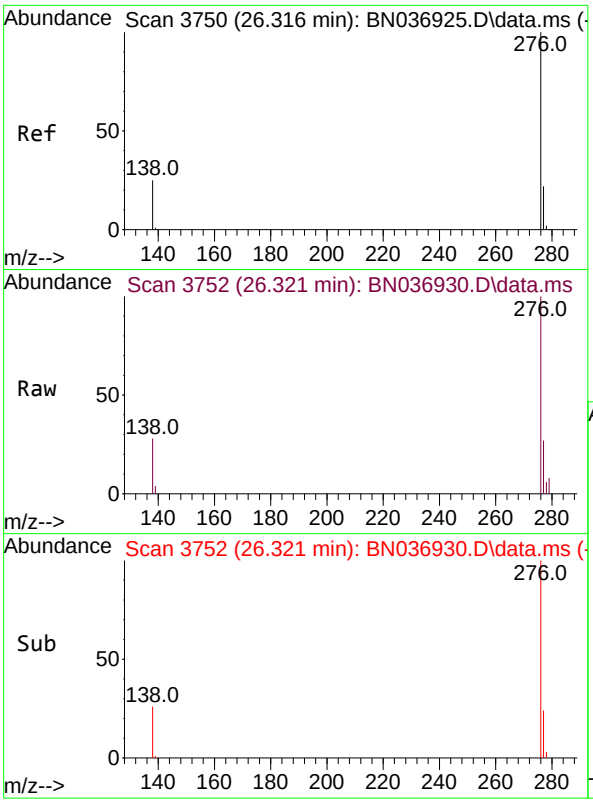


#40
Dibenzo(a,h)anthracene
Concen: 0.362 ng
RT: 25.663 min Scan# 3527
Delta R.T. 0.006 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

Tgt Ion:278 Resp: 5177

Ion	Ratio	Lower	Upper
278	100		
139	22.4	17.4	26.2
279	30.4	24.9	37.3



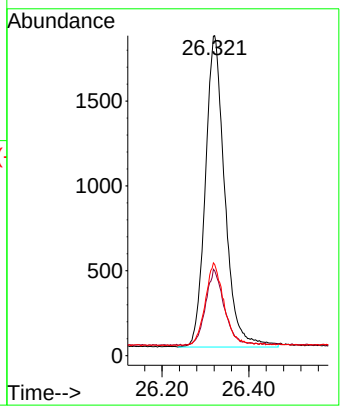


#41
Benzo(g,h,i)perylene
Concen: 0.359 ng
RT: 26.321 min Scan# 3
Delta R.T. 0.006 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

Instrument :
BNA_N
ClientSampleId :
ICVBN042825

Tgt Ion:276 Resp: 5705

Ion	Ratio	Lower	Upper
276	100		
277	26.5	20.2	30.2
138	28.5	21.9	32.9



Evaluate Continuing Calibration Report

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042825\
Data File : BN036930.D
Acq On : 28 Apr 2025 15:51
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN042825

Quant Time: Apr 28 18:00:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:35:03 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	101	0.00
2		1,4-Dioxane	0.498	0.543	-9.0	100	0.00
3		n-Nitrosodimethylamine	0.967	0.989	-2.3	99	0.00
4	S	2-Fluorophenol	1.023	0.913	10.8	83	0.00
5	S	Phenol-d6	1.259	1.095	13.0	83	0.00
6		bis(2-Chloroethyl)ether	1.167	1.229	-5.3	107	0.00
7	I	Naphthalene-d8	1.000	1.000	0.0	106	0.00
8	S	Nitrobenzene-d5	0.418	0.426	-1.9	110	0.00
9		Naphthalene	1.164	1.162	0.2	107	0.00
10		Hexachlorobutadiene	0.252	0.261	-3.6	109	0.00
11	SURR	2-Methylnaphthalene-d10	0.559	0.575	-2.9	113	0.00
12		2-Methylnaphthalene	0.753	0.690	8.4	102	0.00
13	I	Acenaphthene-d10	1.000	1.000	0.0	118	0.00
14	S	2,4,6-Tribromophenol	0.178	0.146	18.0	97	0.00
15	S	2-Fluorobiphenyl	1.933	1.889	2.3	108	0.00
16		Acenaphthylene	1.955	2.010	-2.8	124	0.00
17		Acenaphthene	1.284	1.226	4.5	113	0.00
18		Fluorene	1.680	1.639	2.4	119	0.00
19	I	Phenanthrene-d10	1.000	1.000	0.0	125	0.00
20		4,6-Dinitro-2-methylphenol	0.106	0.085	19.8	119	0.00
21		4-Bromophenyl-phenylether	0.267	0.251	6.0	120	0.00
22		Hexachlorobenzene	0.293	0.283	3.4	118	0.00
23		Atrazine	0.215	0.217	-0.9	136	0.00
24		Pentachlorophenol	0.157	0.124	21.0	107	0.00
25		Phenanthrene	1.320	1.286	2.6	124	0.00
26		Anthracene	1.194	1.172	1.8	128	0.00
27	SURR	Fluoranthene-d10	1.037	1.027	1.0	130	0.00
28		Fluoranthene	1.480	1.407	4.9	126	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	135	0.00
30		Pyrene	1.927	1.812	6.0	125	0.00
31	S	Terphenyl-d14	0.944	0.961	-1.8	137	0.00
32		Benzo(a)anthracene	1.473	1.457	1.1	138	0.00
33		Chrysene	1.589	1.609	-1.3	133	0.00
34		Bis(2-ethylhexyl)phthalate	0.838	0.753	10.1	122	0.00
35	I	Perylene-d12	1.000	1.000	0.0	123	0.00
36		Indeno(1,2,3-cd)pyrene	1.634	1.488	8.9	107	0.00
37		Benzo(b)fluoranthene	1.682	1.636	2.7	123	0.00
38		Benzo(k)fluoranthene	1.691	1.719	-1.7	128	0.00
39	C	Benzo(a)pyrene	1.383	1.441	-4.2	130	0.00
40		Dibenzo(a,h)anthracene	1.286	1.163	9.6	106	0.00
41		Benzo(g,h,i)perylene	1.427	1.281	10.2	104	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\BN042825\
Data File : BN036930.D
Acq On : 28 Apr 2025 15:51
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN042825

Quant Time: Apr 28 18:00:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:35:03 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	101	0.00
2		1,4-Dioxane	0.400	0.435	-8.7	100	0.00
3		n-Nitrosodimethylamine	0.400	0.409	-2.2	99	0.00
4	S	2-Fluorophenol	0.400	0.357	10.8	83	0.00
5	S	Phenol-d6	0.400	0.348	13.0	83	0.00
6		bis(2-Chloroethyl)ether	0.400	0.421	-5.2	107	0.00
7	I	Naphthalene-d8	0.400	0.400	0.0	106	0.00
8	S	Nitrobenzene-d5	0.400	0.408	-2.0	110	0.00
9		Naphthalene	0.400	0.399	0.3	107	0.00
10		Hexachlorobutadiene	0.400	0.414	-3.5	109	0.00
11	SURR	2-Methylnaphthalene-d10	0.400	0.411	-2.7	113	0.00
12		2-Methylnaphthalene	0.400	0.367	8.3	102	0.00
13	I	Acenaphthene-d10	0.400	0.400	0.0	118	0.00
14	S	2,4,6-Tribromophenol	0.400	0.327	18.3	97	0.00
15	S	2-Fluorobiphenyl	0.400	0.391	2.3	108	0.00
16		Acenaphthylene	0.400	0.411	-2.7	124	0.00
17		Acenaphthene	0.400	0.382	4.5	113	0.00
18		Fluorene	0.400	0.390	2.5	119	0.00
19	I	Phenanthrene-d10	0.400	0.400	0.0	125	0.00
20		4,6-Dinitro-2-methylphenol	0.400	0.323	19.3	119	0.00
21		4-Bromophenyl-phenylether	0.400	0.376	6.0	120	0.00
22		Hexachlorobenzene	0.400	0.387	3.3	118	0.00
23		Atrazine	0.400	0.403	-0.8	136	0.00
24		Pentachlorophenol	0.400	0.315	21.3	107	0.00
25		Phenanthrene	0.400	0.390	2.5	124	0.00
26		Anthracene	0.400	0.393	1.8	128	0.00
27	SURR	Fluoranthene-d10	0.400	0.396	1.0	130	0.00
28		Fluoranthene	0.400	0.380	5.0	126	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	135	0.00
30		Pyrene	0.400	0.376	6.0	125	0.00
31	S	Terphenyl-d14	0.400	0.407	-1.7	137	0.00
32		Benzo(a)anthracene	0.400	0.396	1.0	138	0.00
33		Chrysene	0.400	0.405	-1.3	133	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.360	10.0	122	0.00
35	I	Perylene-d12	0.400	0.400	0.0	123	0.00
36		Indeno(1,2,3-cd)pyrene	0.400	0.364	9.0	107	0.00
37		Benzo(b)fluoranthene	0.400	0.389	2.8	123	0.00
38		Benzo(k)fluoranthene	0.400	0.407	-1.7	128	0.00
39	C	Benzo(a)pyrene	0.400	0.417	-4.2	130	0.00
40		Dibenzo(a,h)anthracene	0.400	0.362	9.5	106	0.00
41		Benzo(g,h,i)perylene	0.400	0.359	10.3	104	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: ALLI03

Lab Code: CHEM Case No.: Q1870 SAS No.: Q1870 SDG No.: Q1870

Instrument ID: BNA_N Calibration Date/Time: 04/29/2025 09:17

Lab File ID: BN036933.D Init. Calib. Date(s): 04/28/2025 04/28/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 11:35 15:12

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.559	0.542		-3.0	20.0
Fluoranthene-d10	1.037	0.998		-3.8	20.0
2-Fluorophenol	1.023	1.058		3.4	20.0
Phenol-d6	1.259	1.302		3.4	20.0
Nitrobenzene-d5	0.418	0.407		-2.6	20.0
2-Fluorobiphenyl	1.933	1.953		1.0	20.0
Acenaphthylene	1.955	1.903		-2.7	20.0
2,4,6-Tribromophenol	0.178	0.172		-3.4	20.0
Terphenyl-d14	0.944	0.951		0.7	20.0

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042925\
Data File : BN036933.D
Acq On : 29 Apr 2025 09:17
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Apr 29 10:49:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:35:03 2025
Response via : Initial Calibration

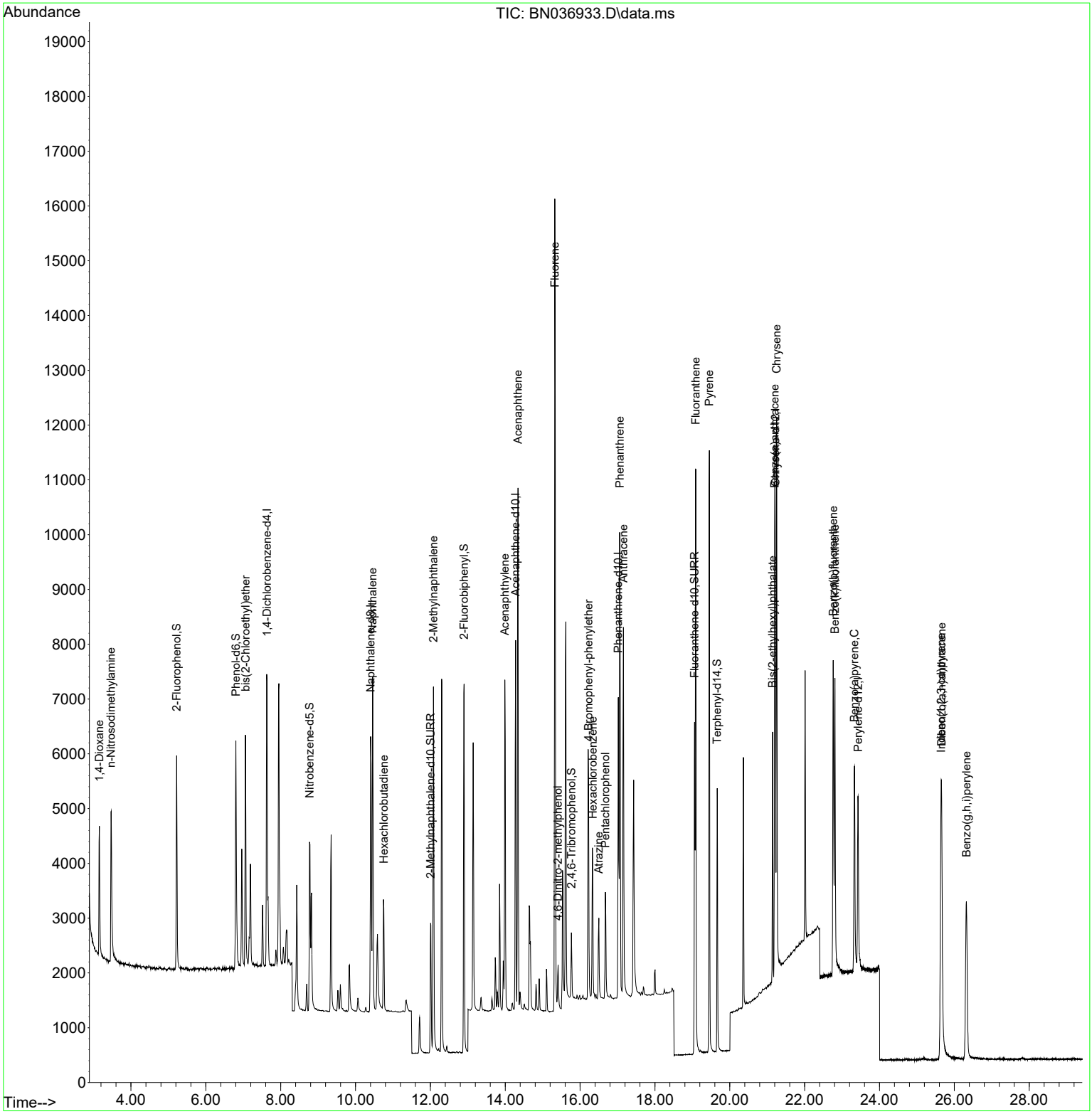
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.633	152	2604	0.400	ng	0.00
7) Naphthalene-d8	10.404	136	6625	0.400	ng	#-0.01
13) Acenaphthene-d10	14.277	164	3573	0.400	ng	0.00
19) Phenanthrene-d10	17.021	188	6894	0.400	ng	0.00
29) Chrysene-d12	21.216	240	5083	0.400	ng	0.00
35) Perylene-d12	23.427	264	4284	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.221	112	2755	0.414	ng	0.00
5) Phenol-d6	6.802	99	3390	0.413	ng	0.00
8) Nitrobenzene-d5	8.771	82	2694	0.389	ng	-0.01
11) 2-Methylnaphthalene-d10	12.006	152	3590	0.387	ng	0.00
14) 2,4,6-Tribromophenol	15.767	330	613	0.385	ng	0.00
15) 2-Fluorobiphenyl	12.899	172	6977	0.404	ng	0.00
27) Fluoranthene-d10	19.059	212	6879	0.385	ng	0.00
31) Terphenyl-d14	19.663	244	4832	0.403	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.155	88	1429	0.440	ng	99
3) n-Nitrosodimethylamine	3.466	42	2520	0.400	ng	99
6) bis(2-Chloroethyl)ether	7.062	93	3072	0.404	ng	99
9) Naphthalene	10.458	128	7647	0.397	ng	100
10) Hexachlorobutadiene	10.757	225	1687	0.404	ng	# 96
12) 2-Methylnaphthalene	12.082	142	4827	0.387	ng	99
16) Acenaphthylene	13.989	152	6799	0.389	ng	100
17) Acenaphthene	14.342	154	4543	0.396	ng	100
18) Fluorene	15.325	166	5827	0.388	ng	99
20) 4,6-Dinitro-2-methylph...	15.411	198	599	0.328	ng	83
21) 4-Bromophenyl-phenylether	16.227	248	1787	0.388	ng	98
22) Hexachlorobenzene	16.338	284	2017	0.400	ng	99
23) Atrazine	16.500	200	1374	0.370	ng	97
24) Pentachlorophenol	16.674	266	1008	0.373	ng	99
25) Phenanthrene	17.058	178	9028	0.397	ng	100
26) Anthracene	17.158	178	7875	0.383	ng	100
28) Fluoranthene	19.091	202	9845	0.386	ng	99
30) Pyrene	19.454	202	9791	0.400	ng	100
32) Benzo(a)anthracene	21.198	228	7169	0.383	ng	98
33) Chrysene	21.251	228	8393	0.416	ng	99
34) Bis(2-ethylhexyl)phtha...	21.144	149	3845	0.361	ng	98
36) Indeno(1,2,3-cd)pyrene	25.643	276	6842	0.391	ng	99
37) Benzo(b)fluoranthene	22.763	252	7159	0.397	ng	99
38) Benzo(k)fluoranthene	22.807	252	7036	0.388	ng	98
39) Benzo(a)pyrene	23.328	252	5774	0.390	ng	97
40) Dibenzo(a,h)anthracene	25.658	278	5371	0.390	ng	97
41) Benzo(g,h,i)perylene	26.321	276	5958	0.390	ng	98

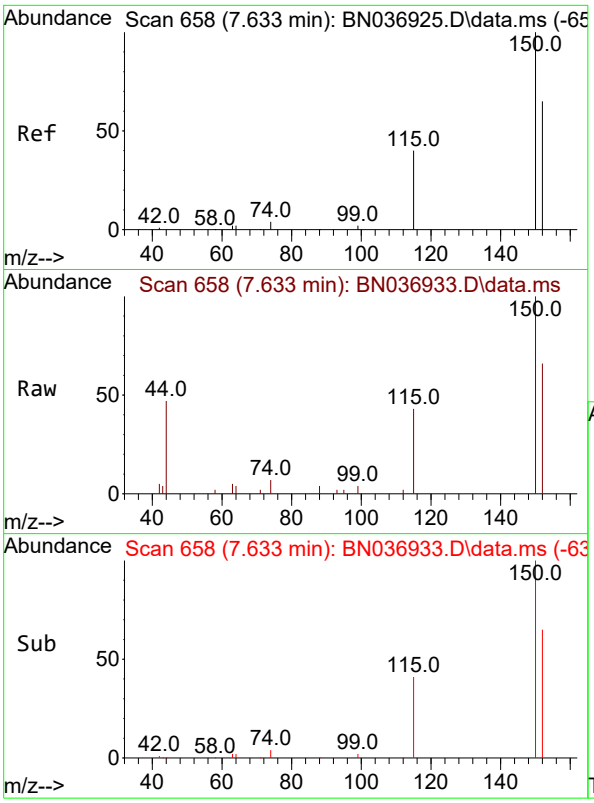
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042925\
Data File : BN036933.D
Acq On : 29 Apr 2025 09:17
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Apr 29 10:49:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:35:03 2025
Response via : Initial Calibration



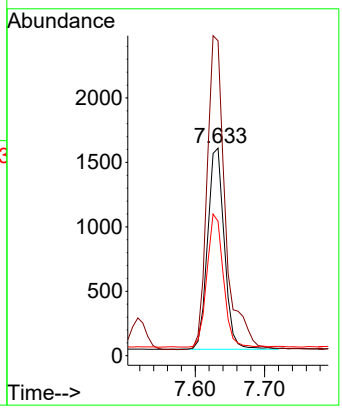


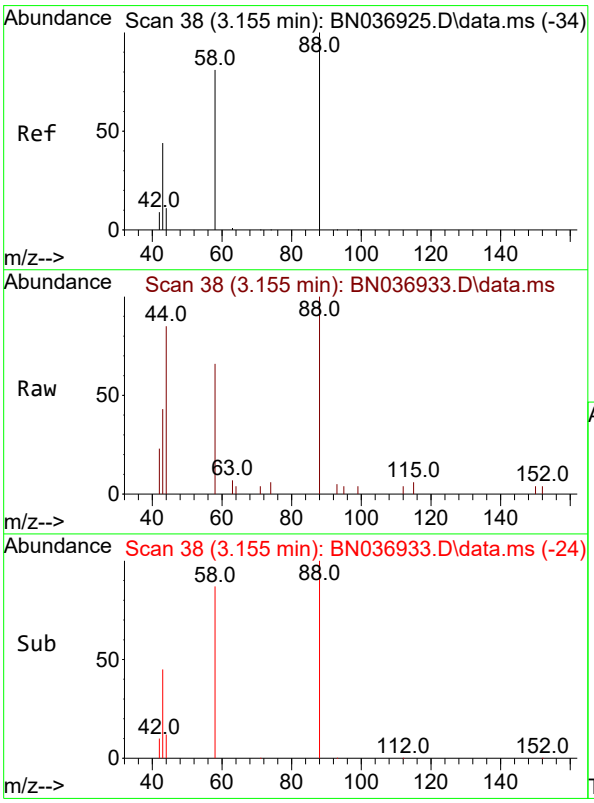
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.633 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN036933.D
Acq: 29 Apr 2025 09:17

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 2604

Ion	Ratio	Lower	Upper
152	100		
150	151.7	121.1	181.7
115	64.8	51.8	77.6

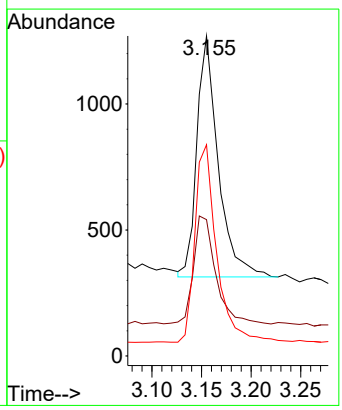


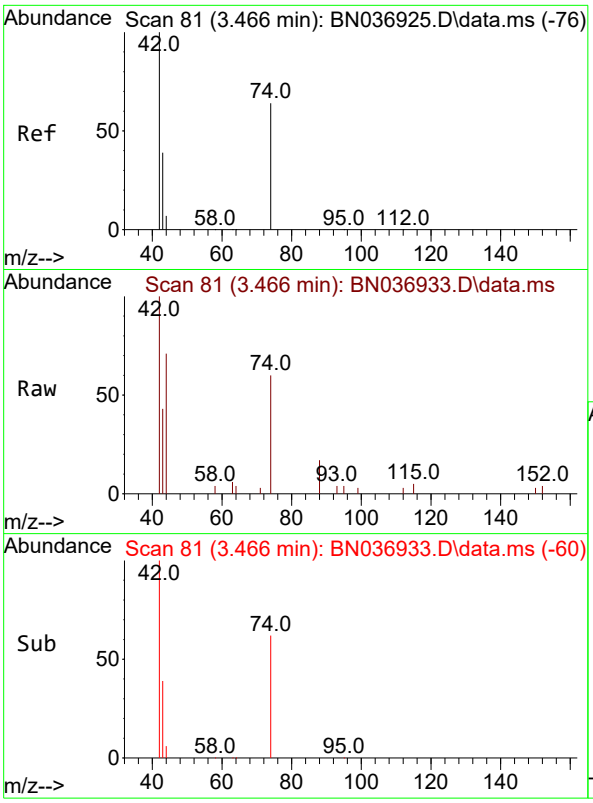


#2
1,4-Dioxane
Concen: 0.440 ng
RT: 3.155 min Scan# 38
Delta R.T. -0.000 min
Lab File: BN036933.D
Acq: 29 Apr 2025 09:17

Tgt Ion: 88 Resp: 1429

Ion	Ratio	Lower	Upper
88	100		
43	46.7	37.9	56.9
58	83.3	65.8	98.6



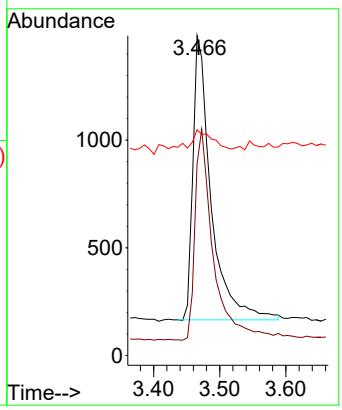


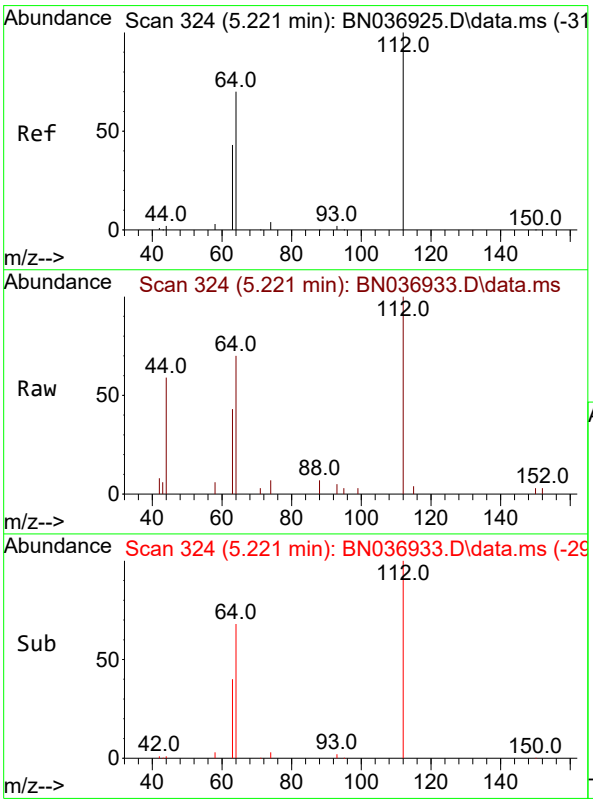
#3
n-Nitrosodimethylamine
Concen: 0.400 ng
RT: 3.466 min Scan# 8
Delta R.T. -0.000 min
Lab File: BN036933.D
Acq: 29 Apr 2025 09:17

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 42 Resp: 2520

Ion	Ratio	Lower	Upper
42	100		
74	74.2	59.9	89.9
44	9.0	7.5	11.3

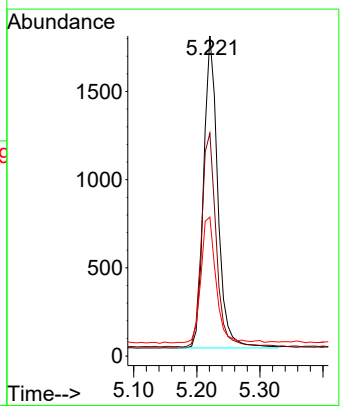


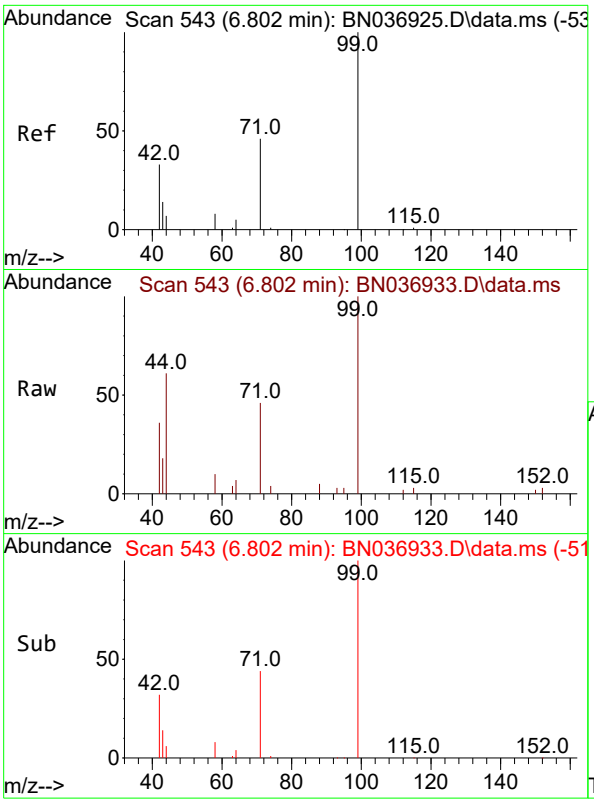


#4
2-Fluorophenol
Concen: 0.414 ng
RT: 5.221 min Scan# 324
Delta R.T. -0.000 min
Lab File: BN036933.D
Acq: 29 Apr 2025 09:17

Tgt Ion:112 Resp: 2755

Ion	Ratio	Lower	Upper
112	100		
64	71.5	55.7	83.5
63	42.6	33.9	50.9



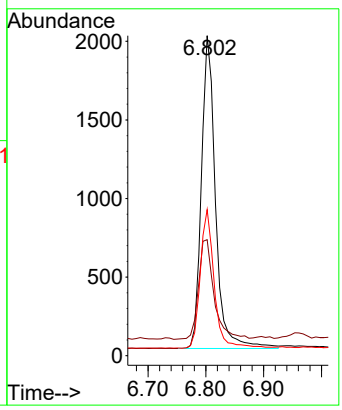


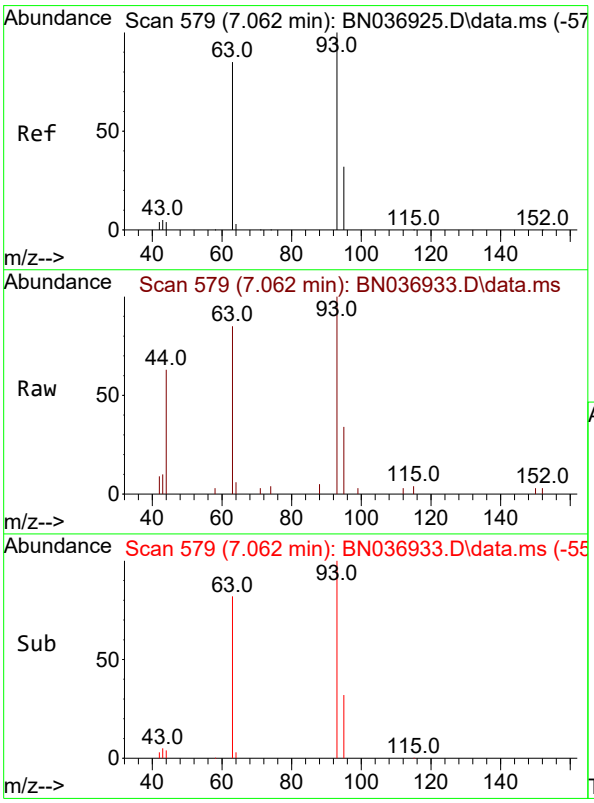
#5
Phenol-d6
Concen: 0.413 ng
RT: 6.802 min Scan# 54
Delta R.T. -0.000 min
Lab File: BN036933.D
Acq: 29 Apr 2025 09:17

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 99 Resp: 3390

Ion	Ratio	Lower	Upper
99	100		
42	34.7	29.6	44.4
71	43.8	36.0	54.0

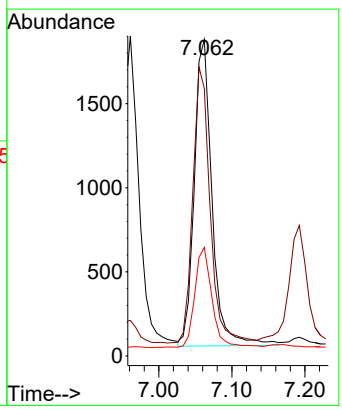


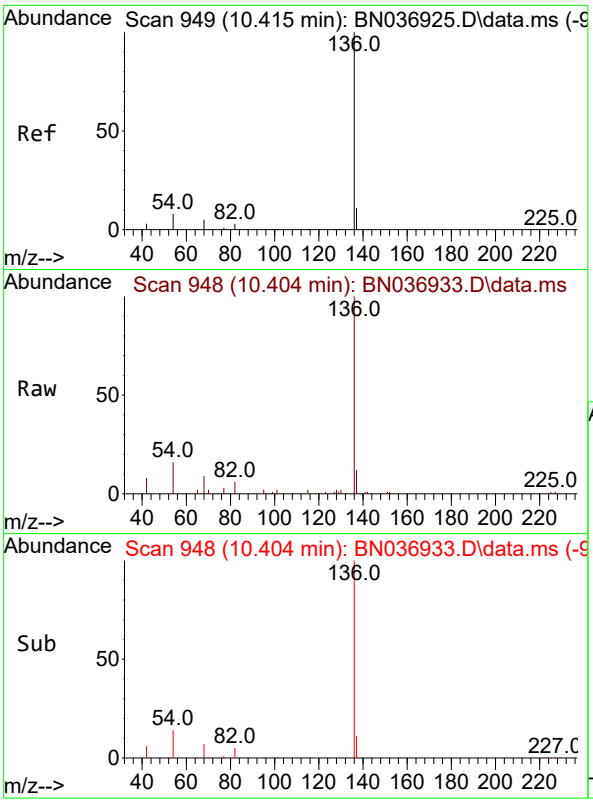


#6
bis(2-Chloroethyl)ether
Concen: 0.404 ng
RT: 7.062 min Scan# 579
Delta R.T. -0.000 min
Lab File: BN036933.D
Acq: 29 Apr 2025 09:17

Tgt Ion: 93 Resp: 3072

Ion	Ratio	Lower	Upper
93	100		
63	87.5	69.0	103.6
95	31.9	25.4	38.0



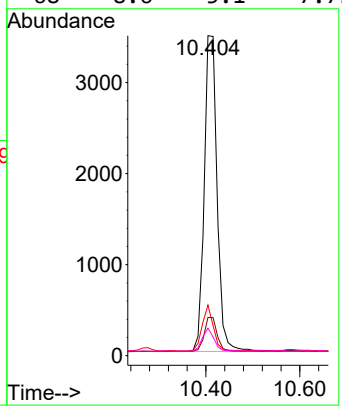


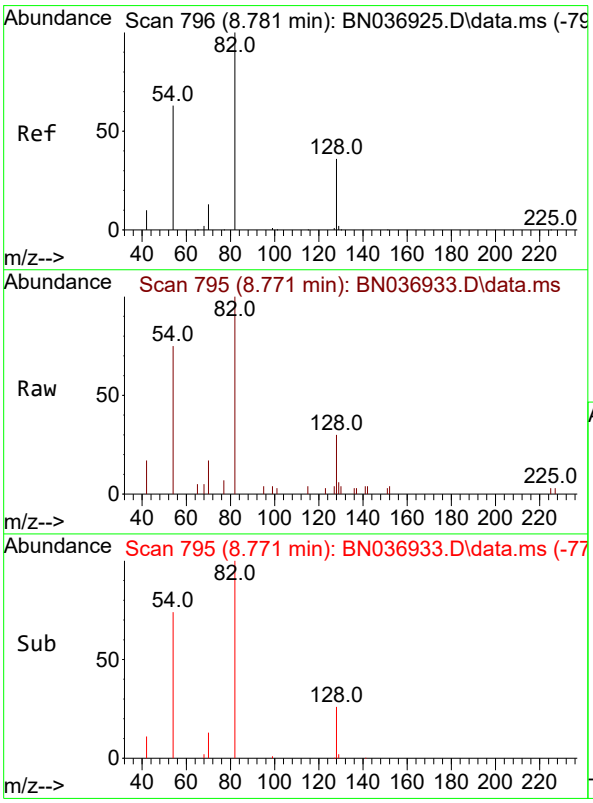
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.404 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN036933.D
Acq: 29 Apr 2025 09:17

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:136 Resp: 6625

Ion	Ratio	Lower	Upper
136	100		
137	11.9	9.7	14.5
54	15.8	8.0	12.0#
68	8.6	5.1	7.7#

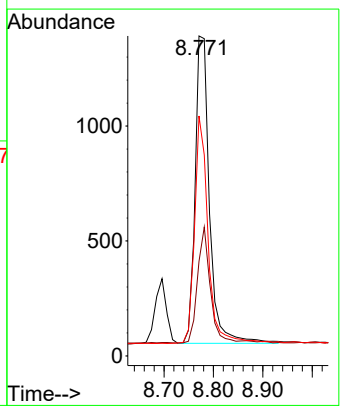


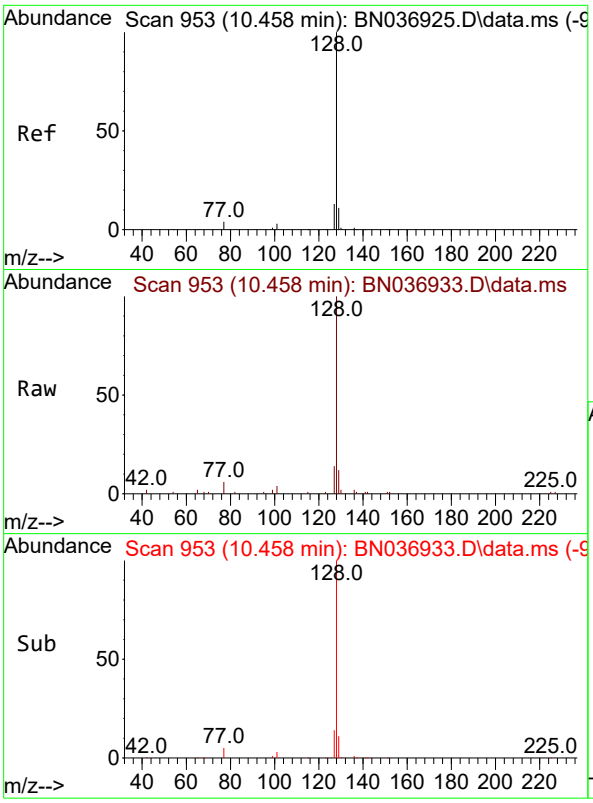


#8
Nitrobenzene-d5
Concen: 0.389 ng
RT: 8.771 min Scan# 795
Delta R.T. -0.011 min
Lab File: BN036933.D
Acq: 29 Apr 2025 09:17

Tgt Ion: 82 Resp: 2694

Ion	Ratio	Lower	Upper
82	100		
128	29.5	30.7	46.1#
54	75.0	52.1	78.1



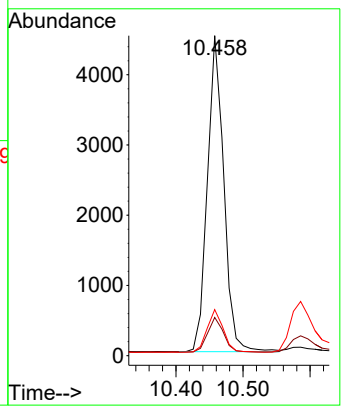


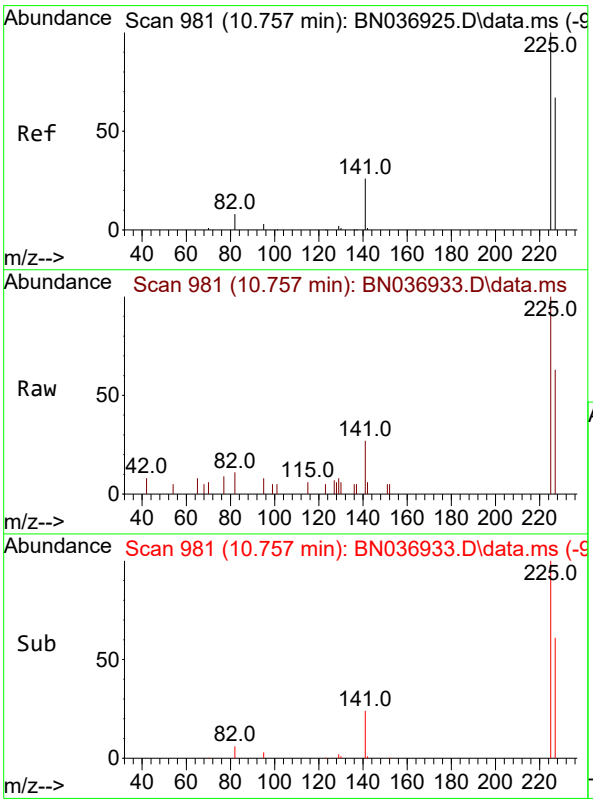
#9
Naphthalene
Concen: 0.397 ng
RT: 10.458 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN036933.D
Acq: 29 Apr 2025 09:17

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:128 Resp: 7647

Ion	Ratio	Lower	Upper
128	100		
129	11.9	9.8	14.6
127	14.4	11.4	17.2

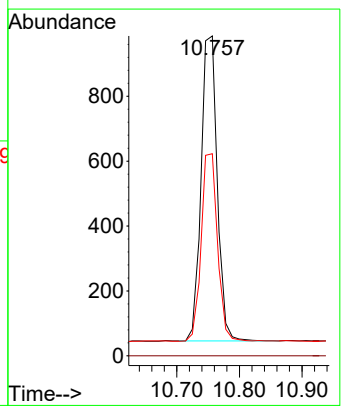


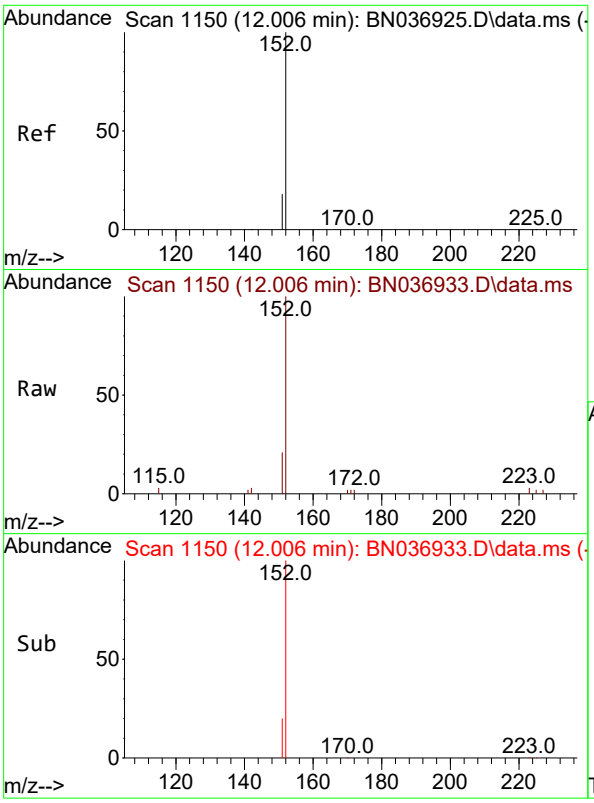


#10
Hexachlorobutadiene
Concen: 0.404 ng
RT: 10.757 min Scan# 981
Delta R.T. -0.000 min
Lab File: BN036933.D
Acq: 29 Apr 2025 09:17

Tgt Ion:225 Resp: 1687

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	62.2	52.2	78.4



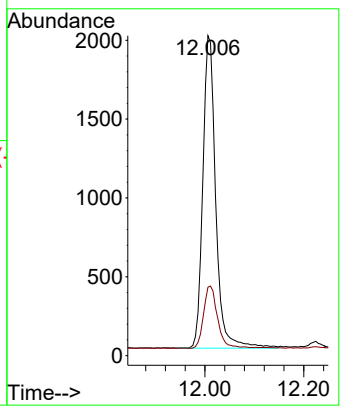


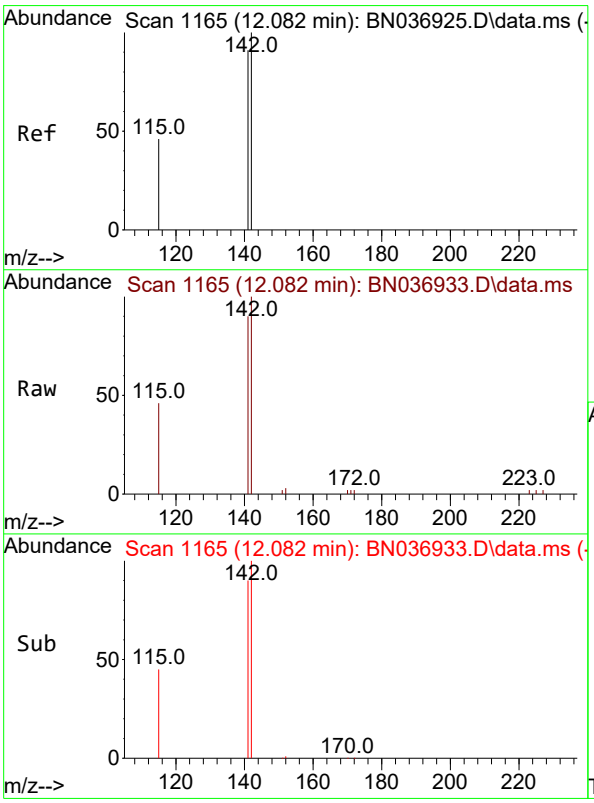
#11
2-Methylnaphthalene-d10
Concen: 0.387 ng
RT: 12.006 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN036933.D
Acq: 29 Apr 2025 09:17

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 3590

Ion	Ratio	Lower	Upper
152	100		
151	21.5	16.9	25.3

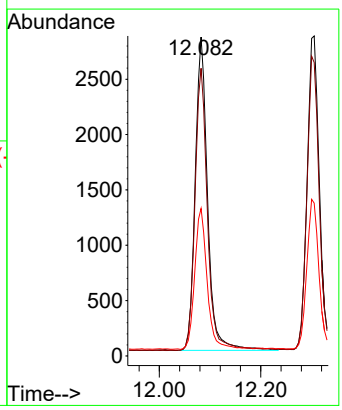


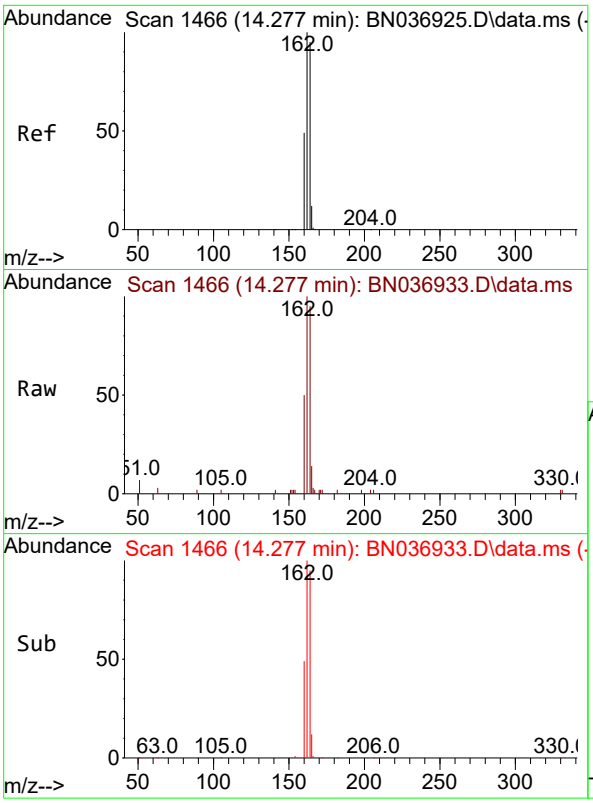


#12
2-Methylnaphthalene
Concen: 0.387 ng
RT: 12.082 min Scan# 1165
Delta R.T. -0.000 min
Lab File: BN036933.D
Acq: 29 Apr 2025 09:17

Tgt Ion:142 Resp: 4827

Ion	Ratio	Lower	Upper
142	100		
141	90.2	72.8	109.2
115	46.3	38.2	57.4



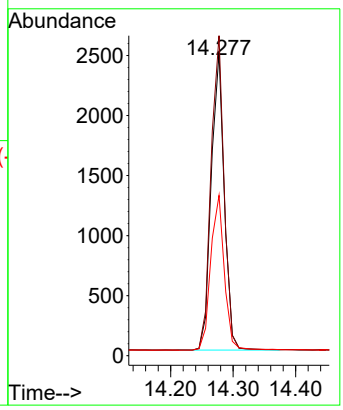


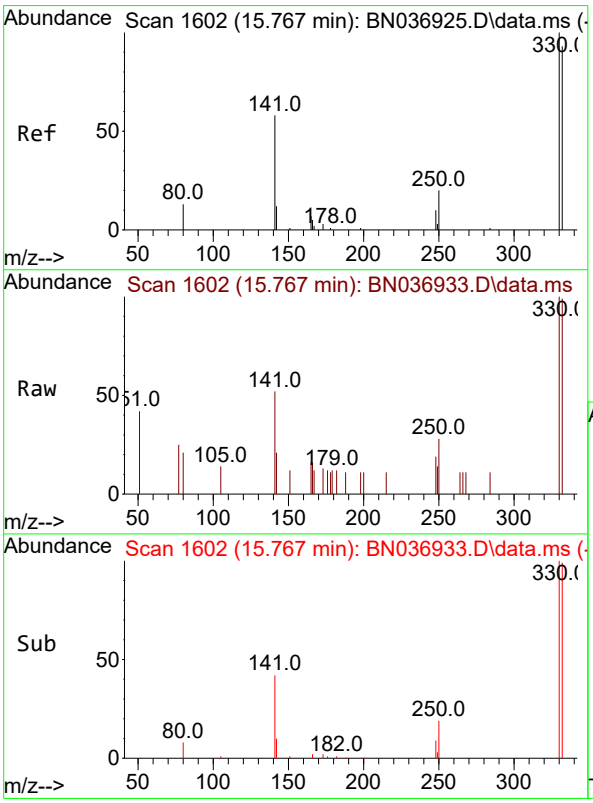
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.277 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN036933.D
Acq: 29 Apr 2025 09:17

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:164 Resp: 3573

Ion	Ratio	Lower	Upper
164	100		
162	105.7	83.8	125.8
160	52.9	42.0	63.0

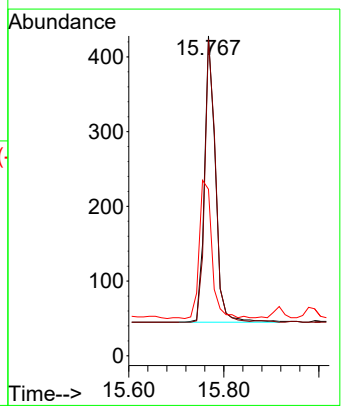


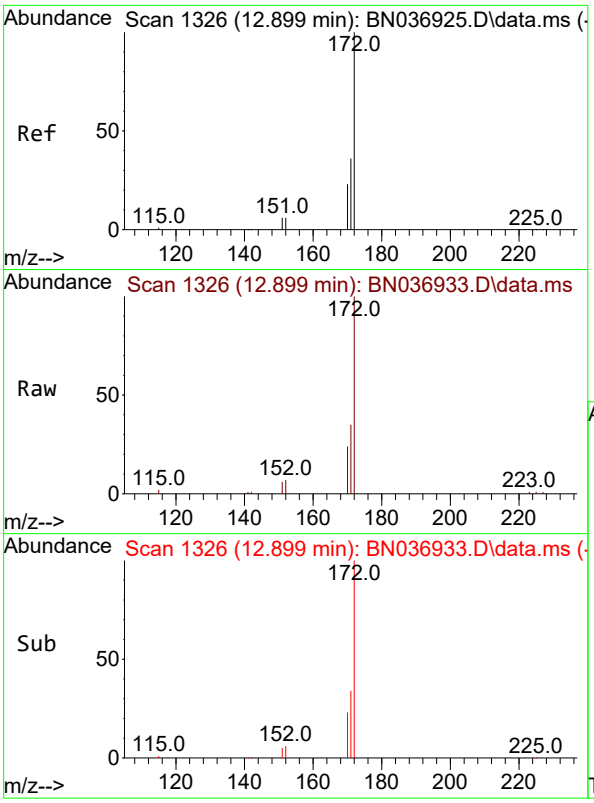


#14
2,4,6-Tribromophenol
Concen: 0.385 ng
RT: 15.767 min Scan# 1602
Delta R.T. -0.000 min
Lab File: BN036933.D
Acq: 29 Apr 2025 09:17

Tgt Ion:330 Resp: 613

Ion	Ratio	Lower	Upper
330	100		
332	96.4	76.3	114.5
141	56.4	45.4	68.2



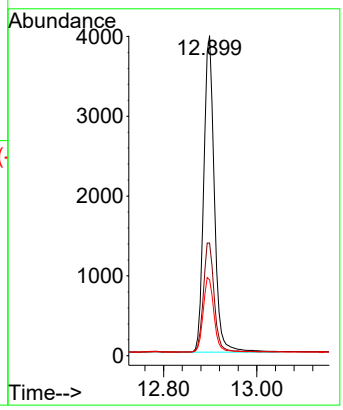


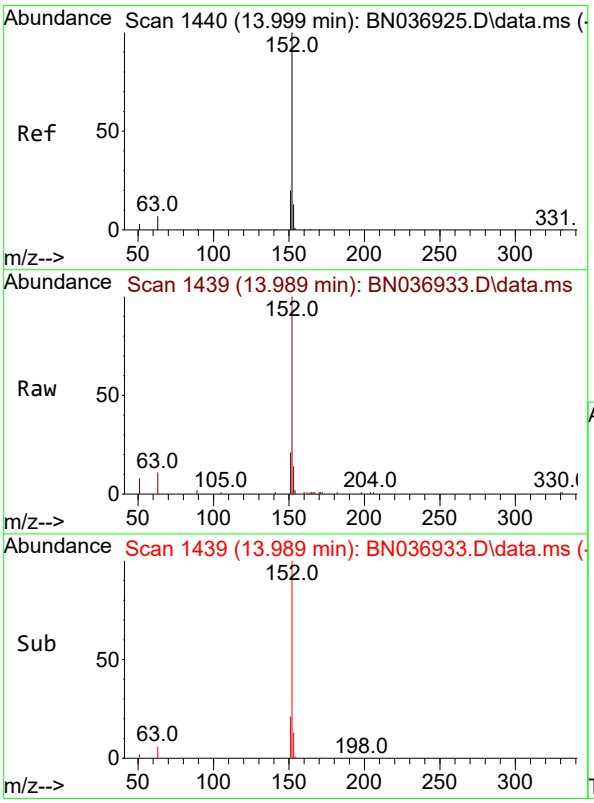
#15
2-Fluorobiphenyl
Concen: 0.404 ng
RT: 12.899 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN036933.D
Acq: 29 Apr 2025 09:17

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:172 Resp: 6977

Ion	Ratio	Lower	Upper
172	100		
171	35.2	29.4	44.0
170	23.7	19.4	29.0

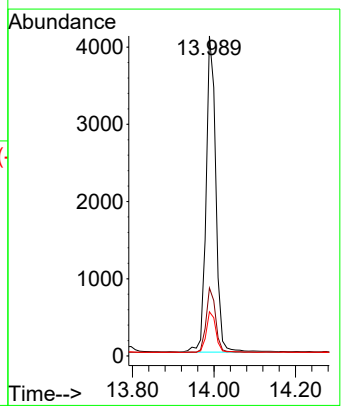


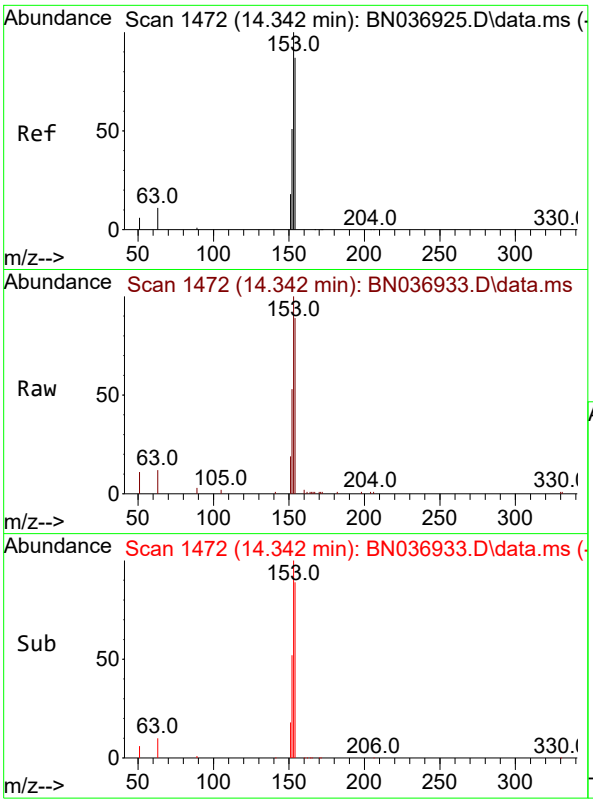


#16
Acenaphthylene
Concen: 0.389 ng
RT: 13.989 min Scan# 1439
Delta R.T. -0.011 min
Lab File: BN036933.D
Acq: 29 Apr 2025 09:17

Tgt Ion:152 Resp: 6799

Ion	Ratio	Lower	Upper
152	100		
151	19.9	16.0	24.0
153	13.0	10.2	15.2



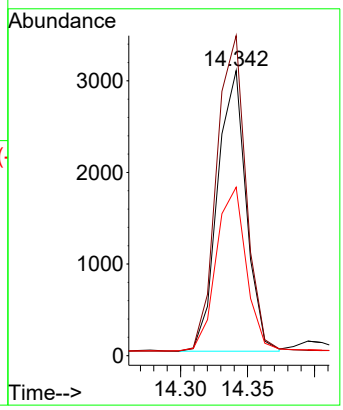


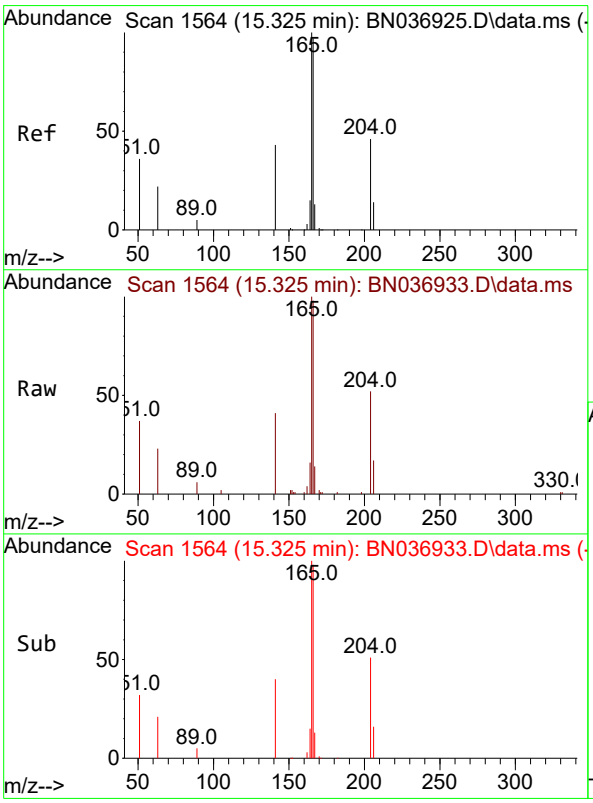
#17
Acenaphthene
Concen: 0.396 ng
RT: 14.342 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN036933.D
Acq: 29 Apr 2025 09:17

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:154 Resp: 4543

Ion	Ratio	Lower	Upper
154	100		
153	116.5	93.4	140.2
152	61.6	49.5	74.3

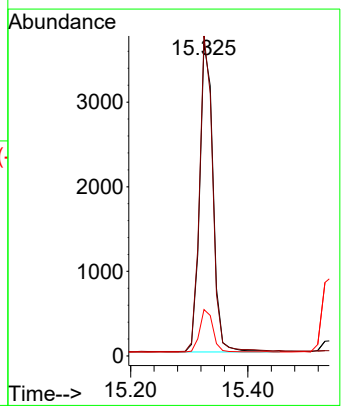


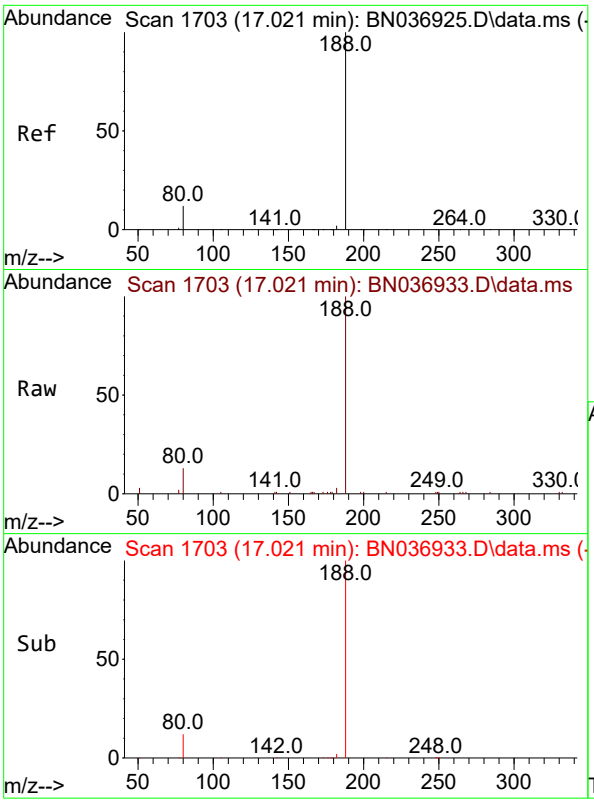


#18
Fluorene
Concen: 0.388 ng
RT: 15.325 min Scan# 1564
Delta R.T. -0.000 min
Lab File: BN036933.D
Acq: 29 Apr 2025 09:17

Tgt Ion:166 Resp: 5827

Ion	Ratio	Lower	Upper
166	100		
165	99.9	80.8	121.2
167	13.7	10.8	16.2



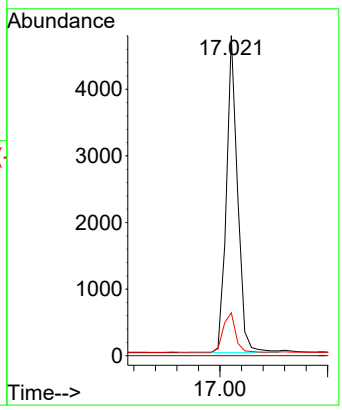


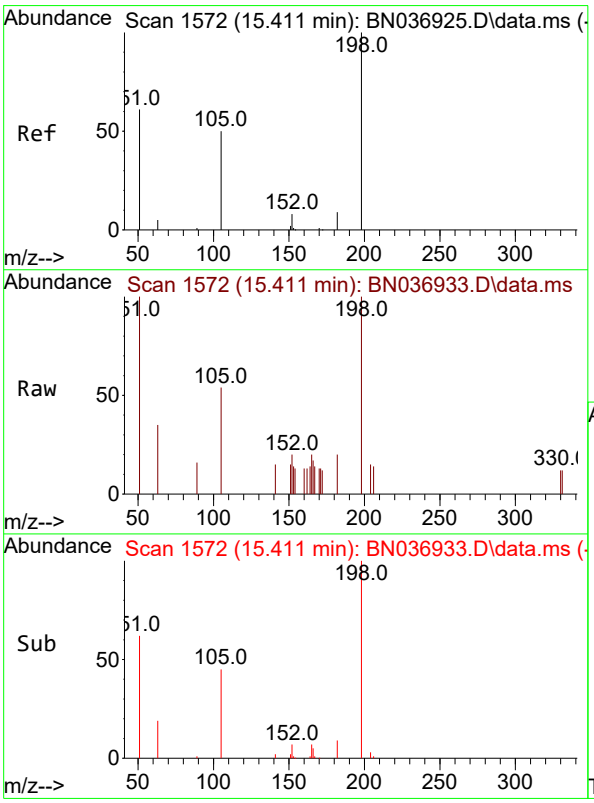
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.021 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN036933.D
Acq: 29 Apr 2025 09:17

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:188 Resp: 6894

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	13.4	10.7	16.1

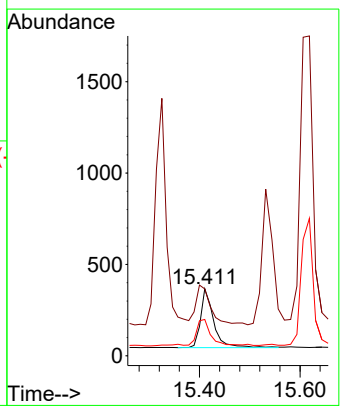


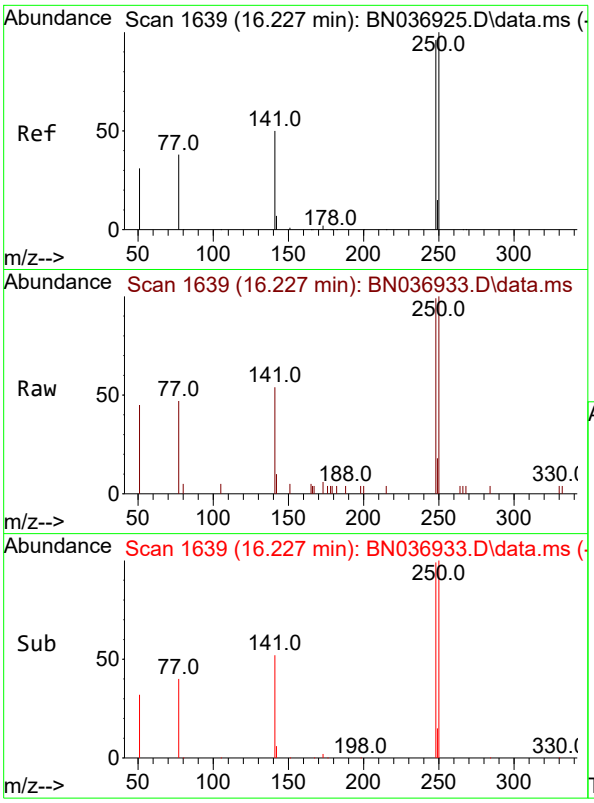


#20
4,6-Dinitro-2-methylphenol
Concen: 0.328 ng
RT: 15.411 min Scan# 1572
Delta R.T. -0.000 min
Lab File: BN036933.D
Acq: 29 Apr 2025 09:17

Tgt Ion:198 Resp: 599

Ion	Ratio	Lower	Upper
198	100		
51	99.7	97.9	146.9
105	54.2	50.0	75.0



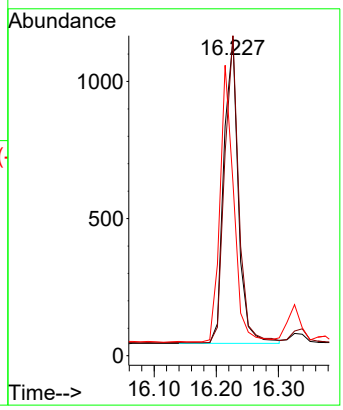


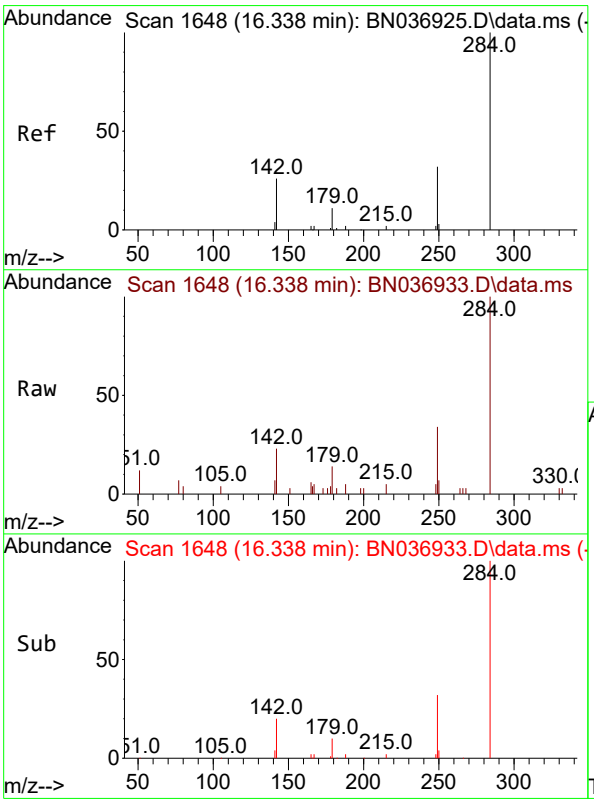
#21
4-Bromophenyl-phenylether
Concen: 0.388 ng
RT: 16.227 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN036933.D
Acq: 29 Apr 2025 09:17

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:248 Resp: 1787

Ion	Ratio	Lower	Upper
248	100		
250	101.0	83.7	125.5
141	54.7	43.8	65.8

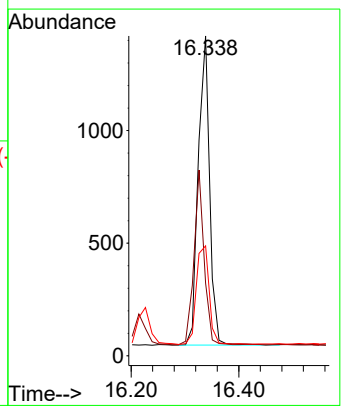


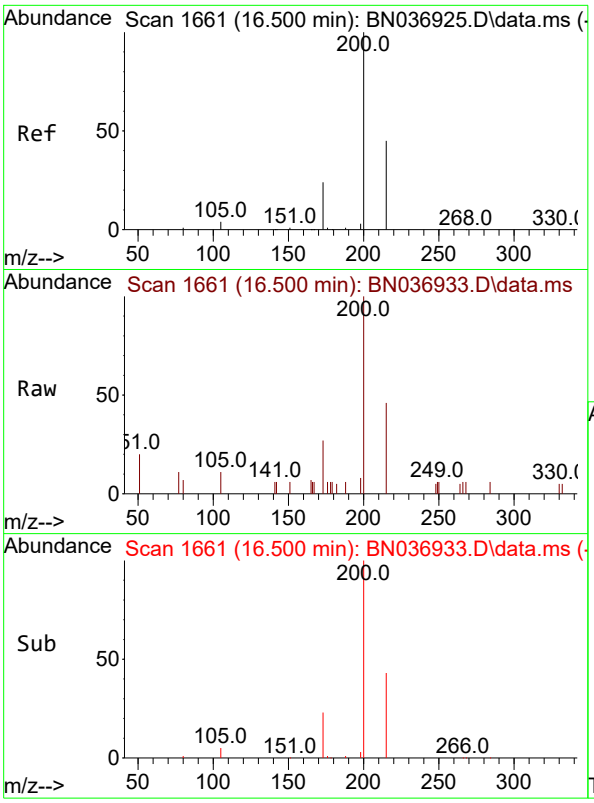


#22
Hexachlorobenzene
Concen: 0.400 ng
RT: 16.338 min Scan# 1648
Delta R.T. -0.000 min
Lab File: BN036933.D
Acq: 29 Apr 2025 09:17

Tgt Ion:284 Resp: 2017

Ion	Ratio	Lower	Upper
284	100		
142	50.4	40.0	60.0
249	36.3	28.2	42.2



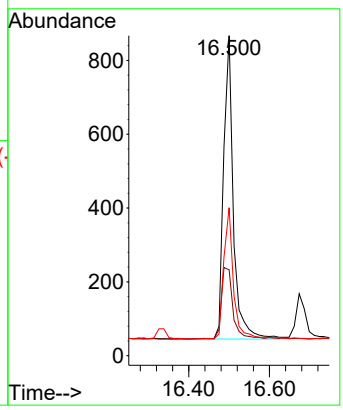


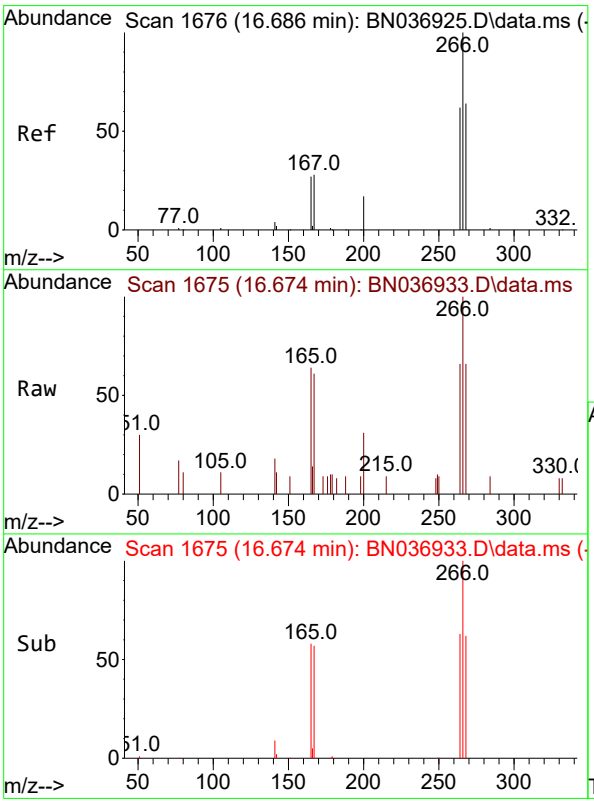
#23
Atrazine
Concen: 0.370 ng
RT: 16.500 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN036933.D
Acq: 29 Apr 2025 09:17

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:200 Resp: 1374

Ion	Ratio	Lower	Upper
200	100		
173	26.9	22.4	33.6
215	46.3	38.6	57.8

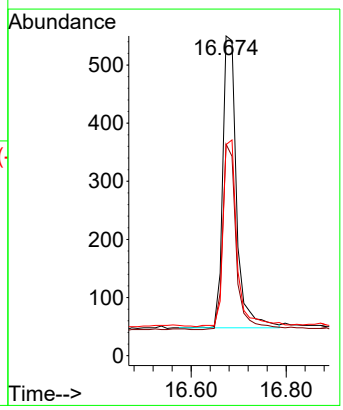


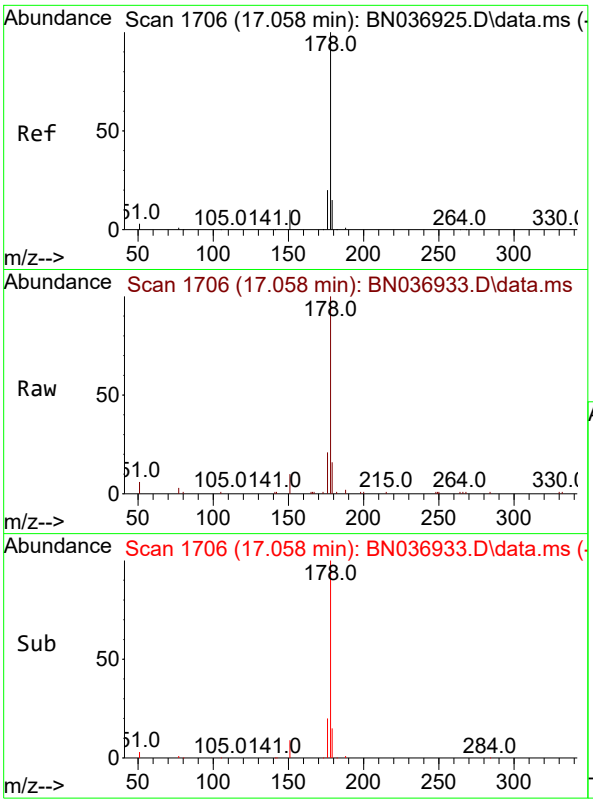


#24
Pentachlorophenol
Concen: 0.373 ng
RT: 16.674 min Scan# 1675
Delta R.T. -0.012 min
Lab File: BN036933.D
Acq: 29 Apr 2025 09:17

Tgt Ion:266 Resp: 1008

Ion	Ratio	Lower	Upper
266	100		
264	62.7	49.9	74.9
268	64.5	52.2	78.4



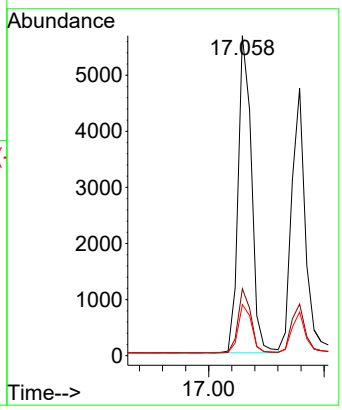


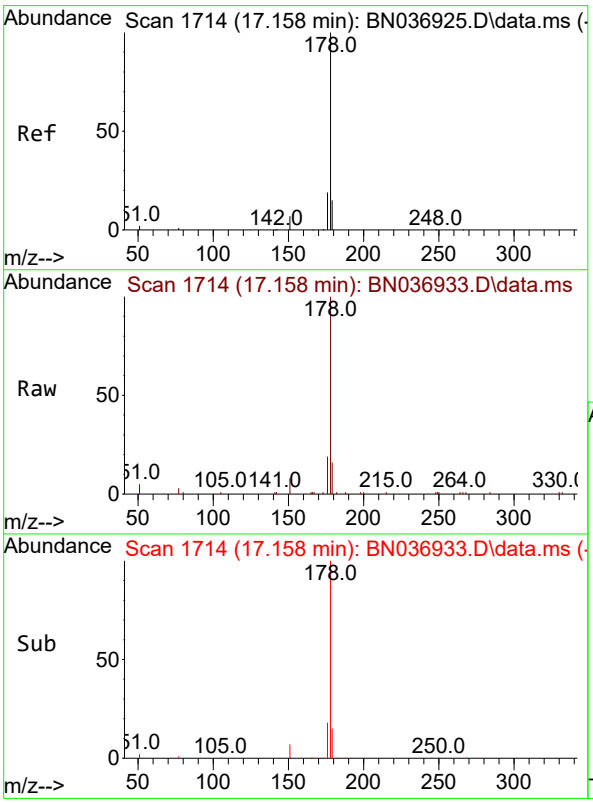
#25
Phenanthrene
Concen: 0.397 ng
RT: 17.058 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN036933.D
Acq: 29 Apr 2025 09:17

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:178 Resp: 9028

Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.7	23.5
179	15.2	12.4	18.6

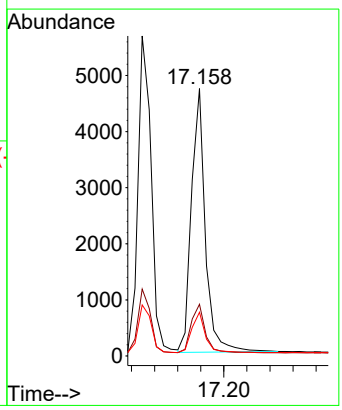


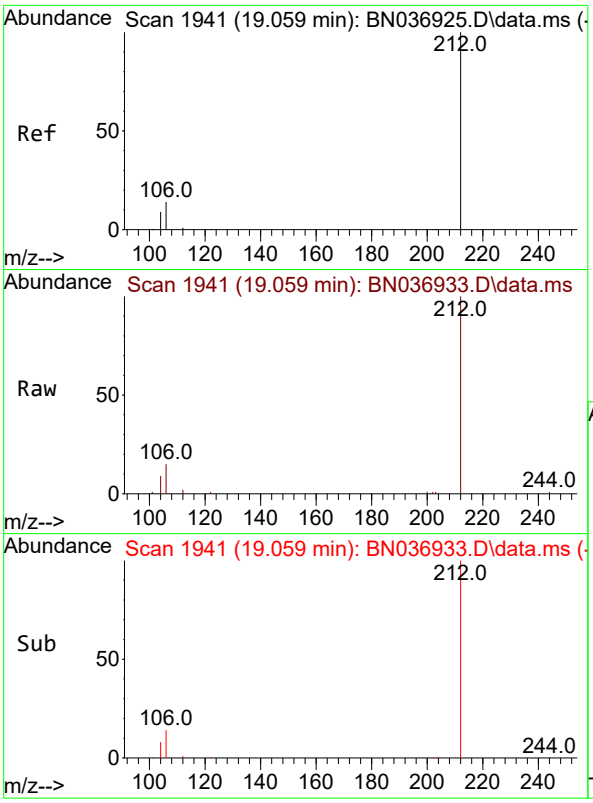


#26
Anthracene
Concen: 0.383 ng
RT: 17.158 min Scan# 1714
Delta R.T. -0.000 min
Lab File: BN036933.D
Acq: 29 Apr 2025 09:17

Tgt Ion:178 Resp: 7875

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.3	22.9
179	15.3	12.1	18.1



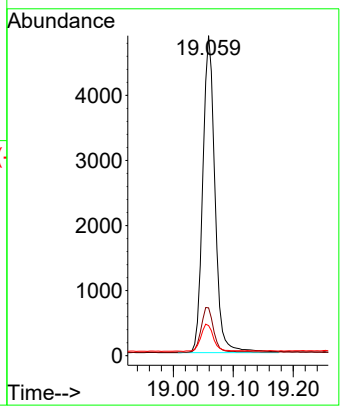


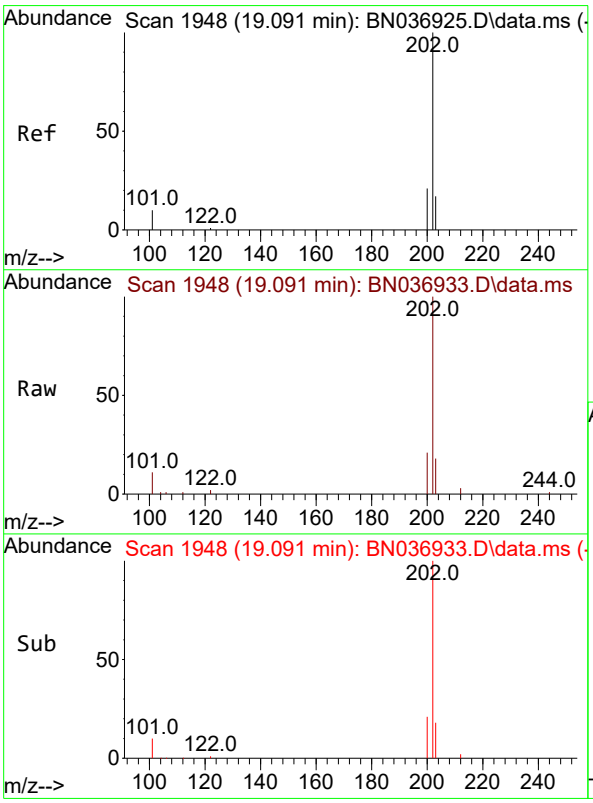
#27
Fluoranthene-d10
Concen: 0.385 ng
RT: 19.059 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN036933.D
Acq: 29 Apr 2025 09:17

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:212 Resp: 6879

Ion	Ratio	Lower	Upper
212	100		
106	14.4	11.6	17.4
104	8.9	7.0	10.4

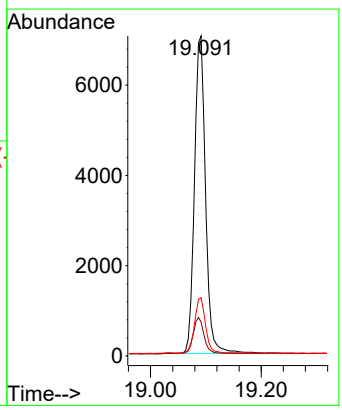


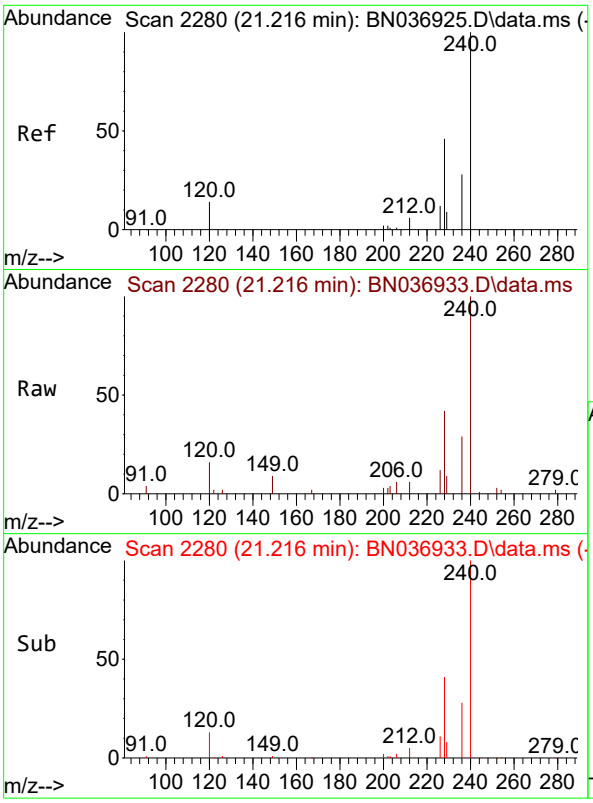


#28
Fluoranthene
Concen: 0.386 ng
RT: 19.091 min Scan# 1948
Delta R.T. -0.000 min
Lab File: BN036933.D
Acq: 29 Apr 2025 09:17

Tgt Ion:202 Resp: 9845

Ion	Ratio	Lower	Upper
202	100		
101	11.4	8.5	12.7
203	17.2	13.7	20.5



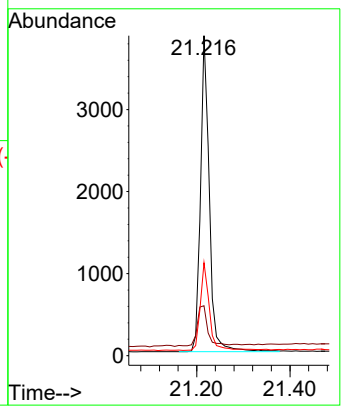


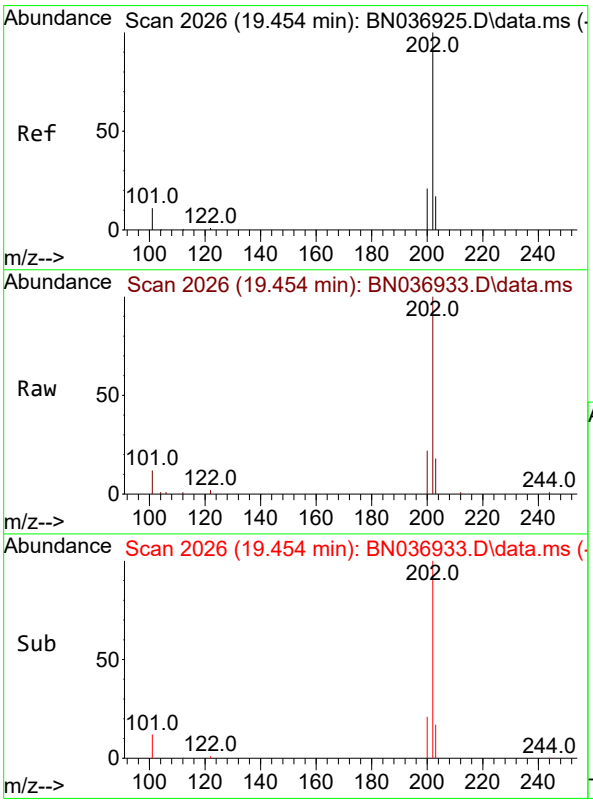
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.216 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN036933.D
Acq: 29 Apr 2025 09:17

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:240 Resp: 5083

Ion	Ratio	Lower	Upper
240	100		
120	15.6	14.1	21.1
236	29.1	23.8	35.8

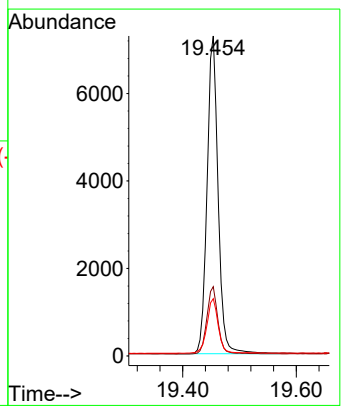


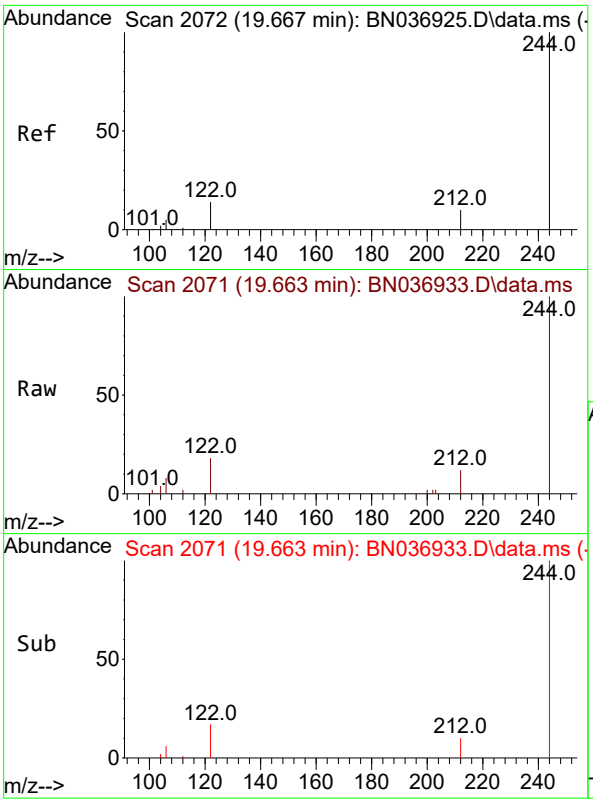


#30
Pyrene
Concen: 0.400 ng
RT: 19.454 min Scan# 2026
Delta R.T. -0.000 min
Lab File: BN036933.D
Acq: 29 Apr 2025 09:17

Tgt Ion:202 Resp: 9791

Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.0	25.6
203	17.5	14.0	21.0



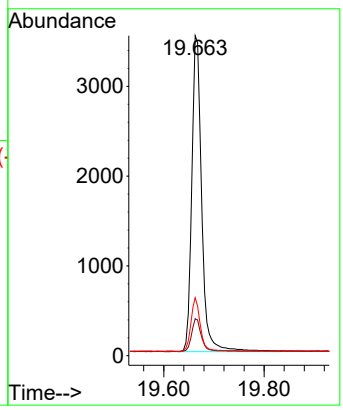


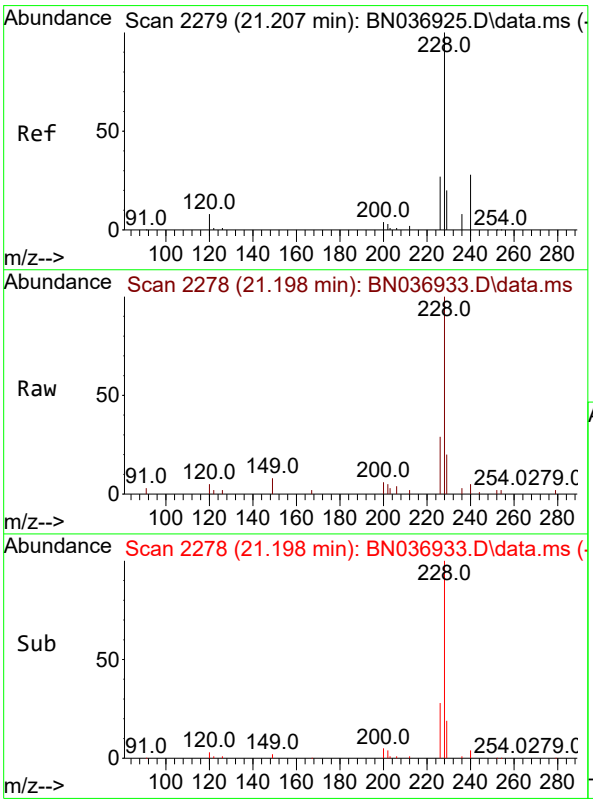
#31
Terphenyl-d14
Concen: 0.403 ng
RT: 19.663 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN036933.D
Acq: 29 Apr 2025 09:17

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:244 Resp: 4832

Ion	Ratio	Lower	Upper
244	100		
212	11.6	9.6	14.4
122	18.1	12.7	19.1

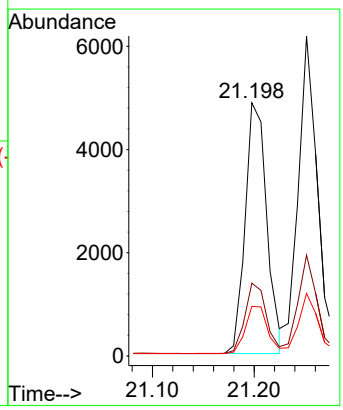


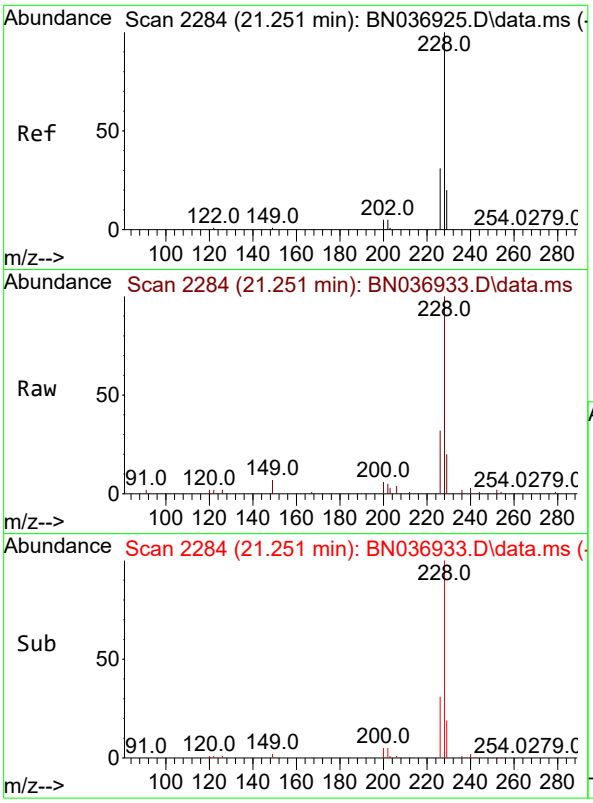


#32
Benzo(a)anthracene
Concen: 0.383 ng
RT: 21.198 min Scan# 2278
Delta R.T. -0.009 min
Lab File: BN036933.D
Acq: 29 Apr 2025 09:17

Tgt Ion:228 Resp: 7169

Ion	Ratio	Lower	Upper
228	100		
226	28.8	22.2	33.4
229	19.6	16.4	24.6



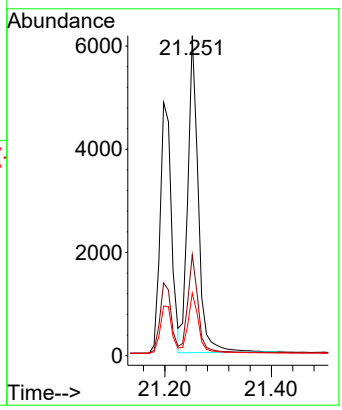


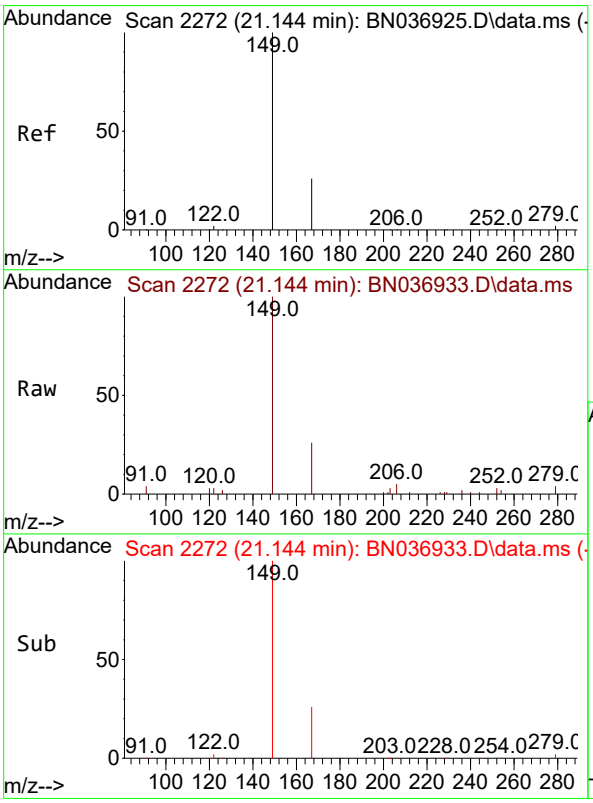
#33
Chrysene
Concen: 0.416 ng
RT: 21.251 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN036933.D
Acq: 29 Apr 2025 09:17

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:228 Resp: 8393

Ion	Ratio	Lower	Upper
228	100		
226	31.5	25.5	38.3
229	19.5	16.5	24.7

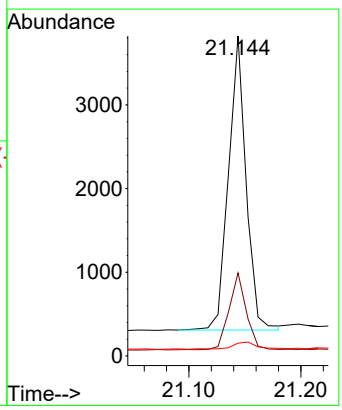


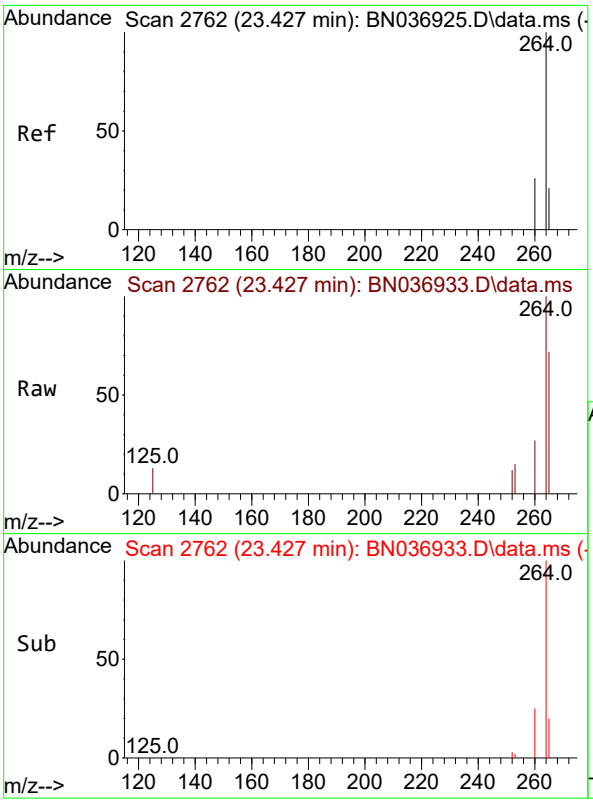


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.361 ng
RT: 21.144 min Scan# 2272
Delta R.T. -0.000 min
Lab File: BN036933.D
Acq: 29 Apr 2025 09:17

Tgt Ion:149 Resp: 3845

Ion	Ratio	Lower	Upper
149	100		
167	25.4	21.0	31.6
279	3.5	2.7	4.1



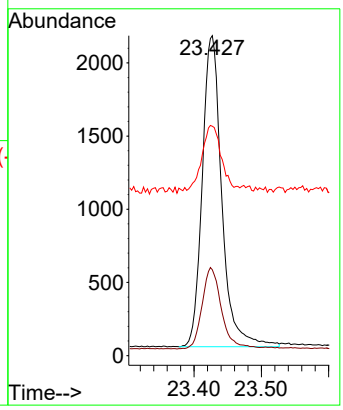


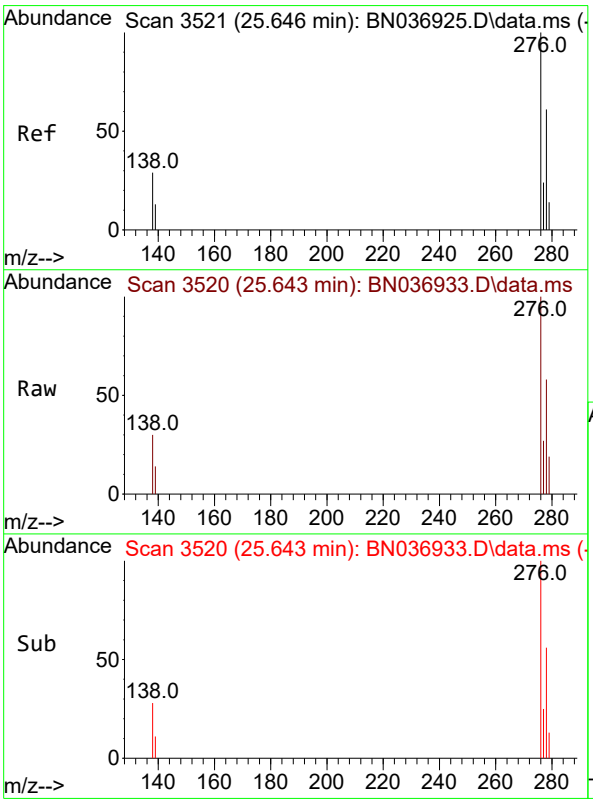
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.427 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN036933.D
Acq: 29 Apr 2025 09:17

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:264 Resp: 4284

Ion	Ratio	Lower	Upper
264	100		
260	26.9	22.2	33.2
265	71.7	65.8	98.6

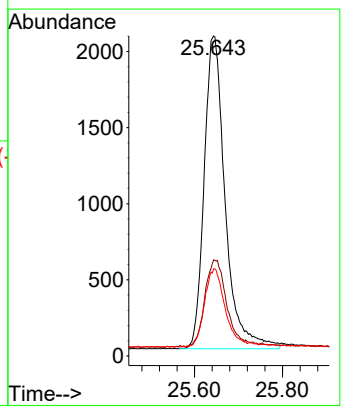


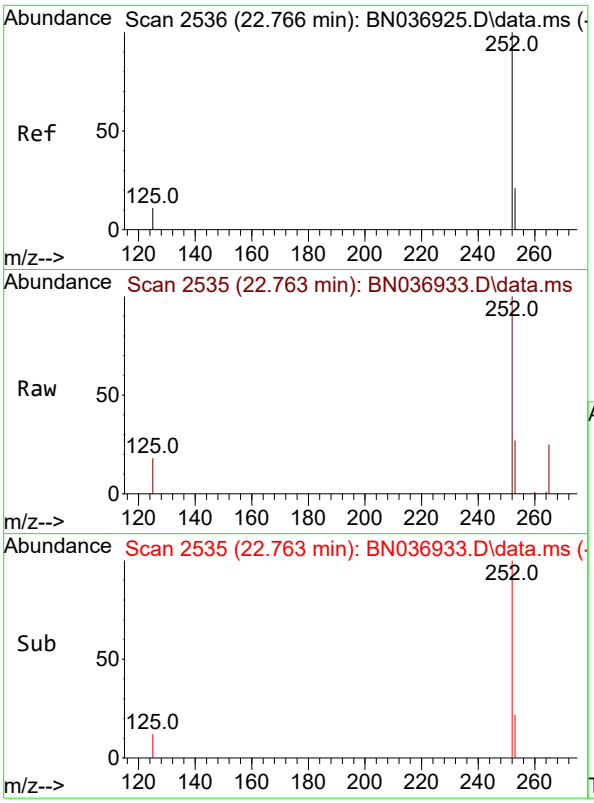


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.391 ng
RT: 25.643 min Scan# 3520
Delta R.T. -0.003 min
Lab File: BN036933.D
Acq: 29 Apr 2025 09:17

Tgt Ion:276 Resp: 6842

Ion	Ratio	Lower	Upper
276	100		
138	28.7	23.0	34.6
277	24.4	20.0	30.0



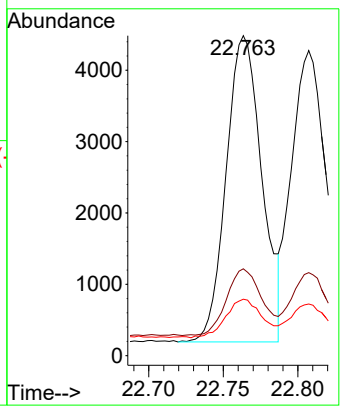


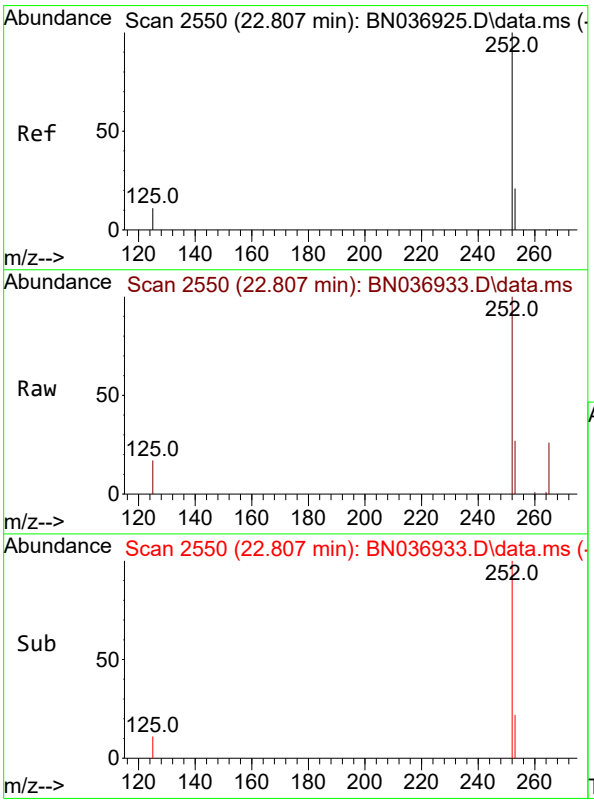
#37
Benzo(b)fluoranthene
Concen: 0.397 ng
RT: 22.763 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN036933.D
Acq: 29 Apr 2025 09:17

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 7159

Ion	Ratio	Lower	Upper
252	100		
253	27.1	22.1	33.1
125	17.6	14.2	21.2

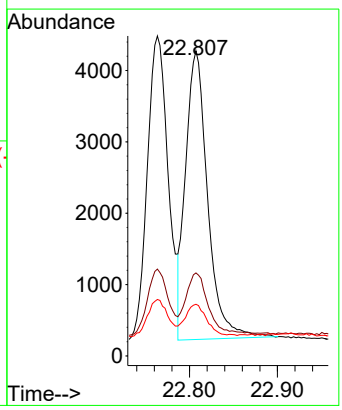


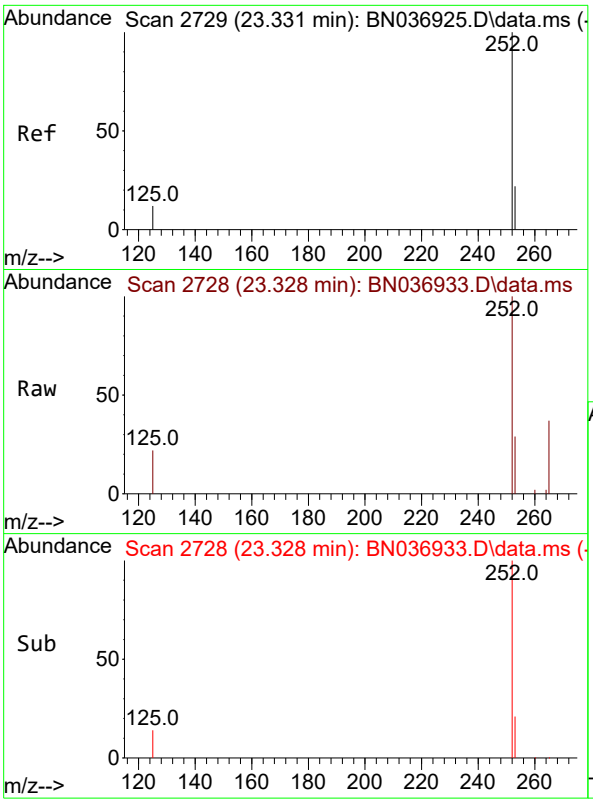


#38
Benzo(k)fluoranthene
Concen: 0.388 ng
RT: 22.807 min Scan# 2550
Delta R.T. -0.000 min
Lab File: BN036933.D
Acq: 29 Apr 2025 09:17

Tgt Ion:252 Resp: 7036

Ion	Ratio	Lower	Upper
252	100		
253	27.2	22.8	34.2
125	17.0	14.2	21.2



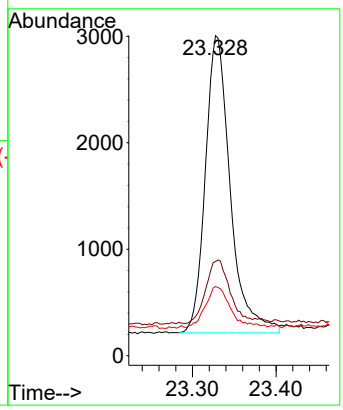


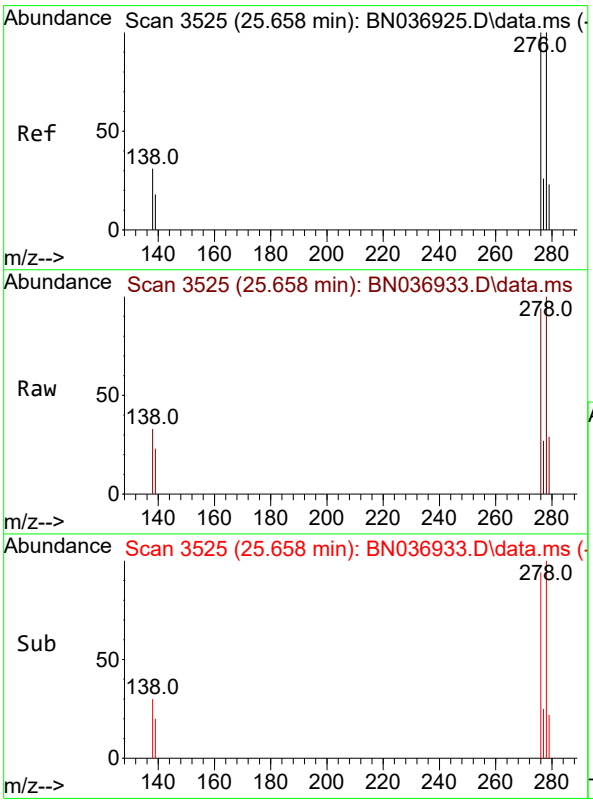
#39
Benzo(a)pyrene
Concen: 0.390 ng
RT: 23.328 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN036933.D
Acq: 29 Apr 2025 09:17

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 5774

Ion	Ratio	Lower	Upper
252	100		
253	29.5	25.9	38.9
125	21.6	17.4	26.0

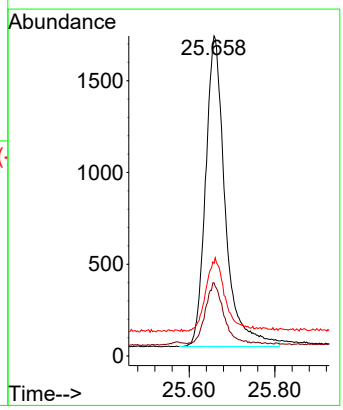


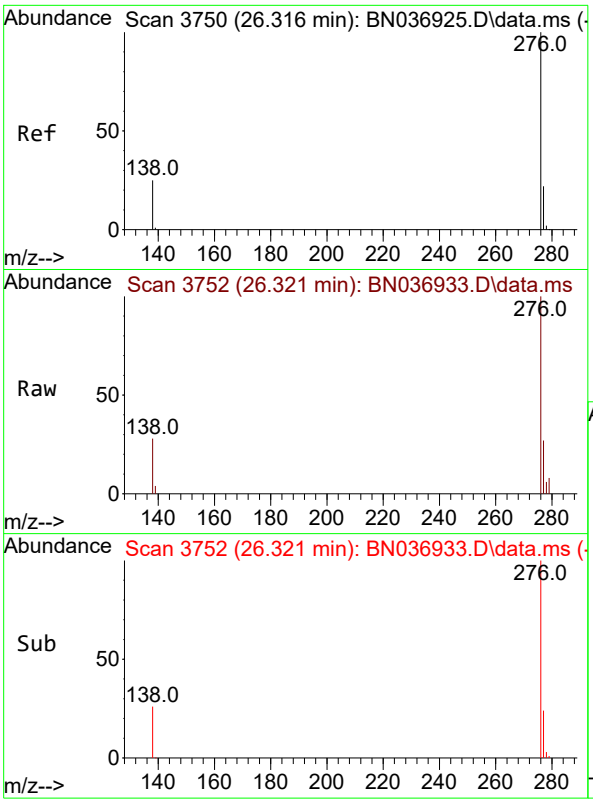


#40
Dibenzo(a,h)anthracene
Concen: 0.390 ng
RT: 25.658 min Scan# 3525
Delta R.T. -0.000 min
Lab File: BN036933.D
Acq: 29 Apr 2025 09:17

Tgt Ion:278 Resp: 5371

Ion	Ratio	Lower	Upper
278	100		
139	22.9	17.4	26.2
279	29.0	24.9	37.3



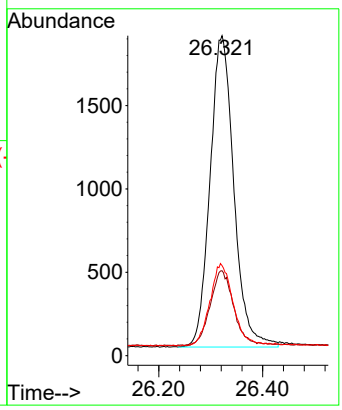


#41
Benzo(g,h,i)perylene
Concen: 0.390 ng
RT: 26.321 min Scan# 3
Delta R.T. 0.006 min
Lab File: BN036933.D
Acq: 29 Apr 2025 09:17

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:276 Resp: 5958

Ion	Ratio	Lower	Upper
276	100		
277	26.5	20.2	30.2
138	28.1	21.9	32.9



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042925\
Data File : BN036933.D
Acq On : 29 Apr 2025 09:17
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Apr 29 10:49:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:35:03 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	110	0.00
2		1,4-Dioxane	0.498	0.549	-10.2	109	0.00
3		n-Nitrosodimethylamine	0.967	0.968	-0.1	105	0.00
4	S	2-Fluorophenol	1.023	1.058	-3.4	104	0.00
5	S	Phenol-d6	1.259	1.302	-3.4	107	0.00
6		bis(2-Chloroethyl)ether	1.167	1.180	-1.1	111	0.00
7	I	Naphthalene-d8	1.000	1.000	0.0	114	-0.01
8	S	Nitrobenzene-d5	0.418	0.407	2.6	113	-0.01
9		Naphthalene	1.164	1.154	0.9	114	0.00
10		Hexachlorobutadiene	0.252	0.255	-1.2	114	0.00
11	SURR	2-Methylnaphthalene-d10	0.559	0.542	3.0	114	0.00
12		2-Methylnaphthalene	0.753	0.729	3.2	115	0.00
13	I	Acenaphthene-d10	1.000	1.000	0.0	117	0.00
14	S	2,4,6-Tribromophenol	0.178	0.172	3.4	114	0.00
15	S	2-Fluorobiphenyl	1.933	1.953	-1.0	111	0.00
16		Acenaphthylene	1.955	1.903	2.7	117	-0.01
17		Acenaphthene	1.284	1.271	1.0	117	0.00
18		Fluorene	1.680	1.631	2.9	118	0.00
19	I	Phenanthrene-d10	1.000	1.000	0.0	121	0.00
20		4,6-Dinitro-2-methylphenol	0.106	0.087	17.9	116	0.00
21		4-Bromophenyl-phenylether	0.267	0.259	3.0	120	0.00
22		Hexachlorobenzene	0.293	0.293	0.0	118	0.00
23		Atrazine	0.215	0.199	7.4	121	0.00
24		Pentachlorophenol	0.157	0.146	7.0	122	-0.01
25		Phenanthrene	1.320	1.310	0.8	122	0.00
26		Anthracene	1.194	1.142	4.4	120	0.00
27	SURR	Fluoranthene-d10	1.037	0.998	3.8	122	0.00
28		Fluoranthene	1.480	1.428	3.5	123	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	123	0.00
30		Pyrene	1.927	1.926	0.1	121	0.00
31	S	Terphenyl-d14	0.944	0.951	-0.7	124	0.00
32		Benzo(a)anthracene	1.473	1.410	4.3	122	0.00
33		Chrysene	1.589	1.651	-3.9	124	0.00
34		Bis(2-ethylhexyl)phthalate	0.838	0.756	9.8	112	0.00
35	I	Perylene-d12	1.000	1.000	0.0	118	0.00
36		Indeno(1,2,3-cd)pyrene	1.634	1.597	2.3	110	0.00
37		Benzo(b)fluoranthene	1.682	1.671	0.7	121	0.00
38		Benzo(k)fluoranthene	1.691	1.642	2.9	118	0.00
39	C	Benzo(a)pyrene	1.383	1.348	2.5	117	0.00
40		Dibenzo(a,h)anthracene	1.286	1.254	2.5	110	0.00
41		Benzo(g,h,i)perylene	1.427	1.391	2.5	108	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042925\
Data File : BN036933.D
Acq On : 29 Apr 2025 09:17
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Apr 29 10:49:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:35:03 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	110	0.00
2		1,4-Dioxane	0.400	0.440	-10.0	109	0.00
3		n-Nitrosodimethylamine	0.400	0.400	0.0	105	0.00
4	S	2-Fluorophenol	0.400	0.414	-3.5	104	0.00
5	S	Phenol-d6	0.400	0.413	-3.2	107	0.00
6		bis(2-Chloroethyl)ether	0.400	0.404	-1.0	111	0.00
7	I	Naphthalene-d8	0.400	0.400	0.0	114	-0.01
8	S	Nitrobenzene-d5	0.400	0.389	2.8	113	-0.01
9		Naphthalene	0.400	0.397	0.8	114	0.00
10		Hexachlorobutadiene	0.400	0.404	-1.0	114	0.00
11	SURR	2-Methylnaphthalene-d10	0.400	0.387	3.3	114	0.00
12		2-Methylnaphthalene	0.400	0.387	3.3	115	0.00
13	I	Acenaphthene-d10	0.400	0.400	0.0	117	0.00
14	S	2,4,6-Tribromophenol	0.400	0.385	3.8	114	0.00
15	S	2-Fluorobiphenyl	0.400	0.404	-1.0	111	0.00
16		Acenaphthylene	0.400	0.389	2.8	117	-0.01
17		Acenaphthene	0.400	0.396	1.0	117	0.00
18		Fluorene	0.400	0.388	3.0	118	0.00
19	I	Phenanthrene-d10	0.400	0.400	0.0	121	0.00
20		4,6-Dinitro-2-methylphenol	0.400	0.328	18.0	116	0.00
21		4-Bromophenyl-phenylether	0.400	0.388	3.0	120	0.00
22		Hexachlorobenzene	0.400	0.400	0.0	118	0.00
23		Atrazine	0.400	0.370	7.5	121	0.00
24		Pentachlorophenol	0.400	0.373	6.8	122	-0.01
25		Phenanthrene	0.400	0.397	0.8	122	0.00
26		Anthracene	0.400	0.383	4.3	120	0.00
27	SURR	Fluoranthene-d10	0.400	0.385	3.8	122	0.00
28		Fluoranthene	0.400	0.386	3.5	123	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	123	0.00
30		Pyrene	0.400	0.400	0.0	121	0.00
31	S	Terphenyl-d14	0.400	0.403	-0.8	124	0.00
32		Benzo(a)anthracene	0.400	0.383	4.3	122	0.00
33		Chrysene	0.400	0.416	-4.0	124	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.361	9.8	112	0.00
35	I	Perylene-d12	0.400	0.400	0.0	118	0.00
36		Indeno(1,2,3-cd)pyrene	0.400	0.391	2.3	110	0.00
37		Benzo(b)fluoranthene	0.400	0.397	0.8	121	0.00
38		Benzo(k)fluoranthene	0.400	0.388	3.0	118	0.00
39	C	Benzo(a)pyrene	0.400	0.390	2.5	117	0.00
40		Dibenzo(a,h)anthracene	0.400	0.390	2.5	110	0.00
41		Benzo(g,h,i)perylene	0.400	0.390	2.5	108	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

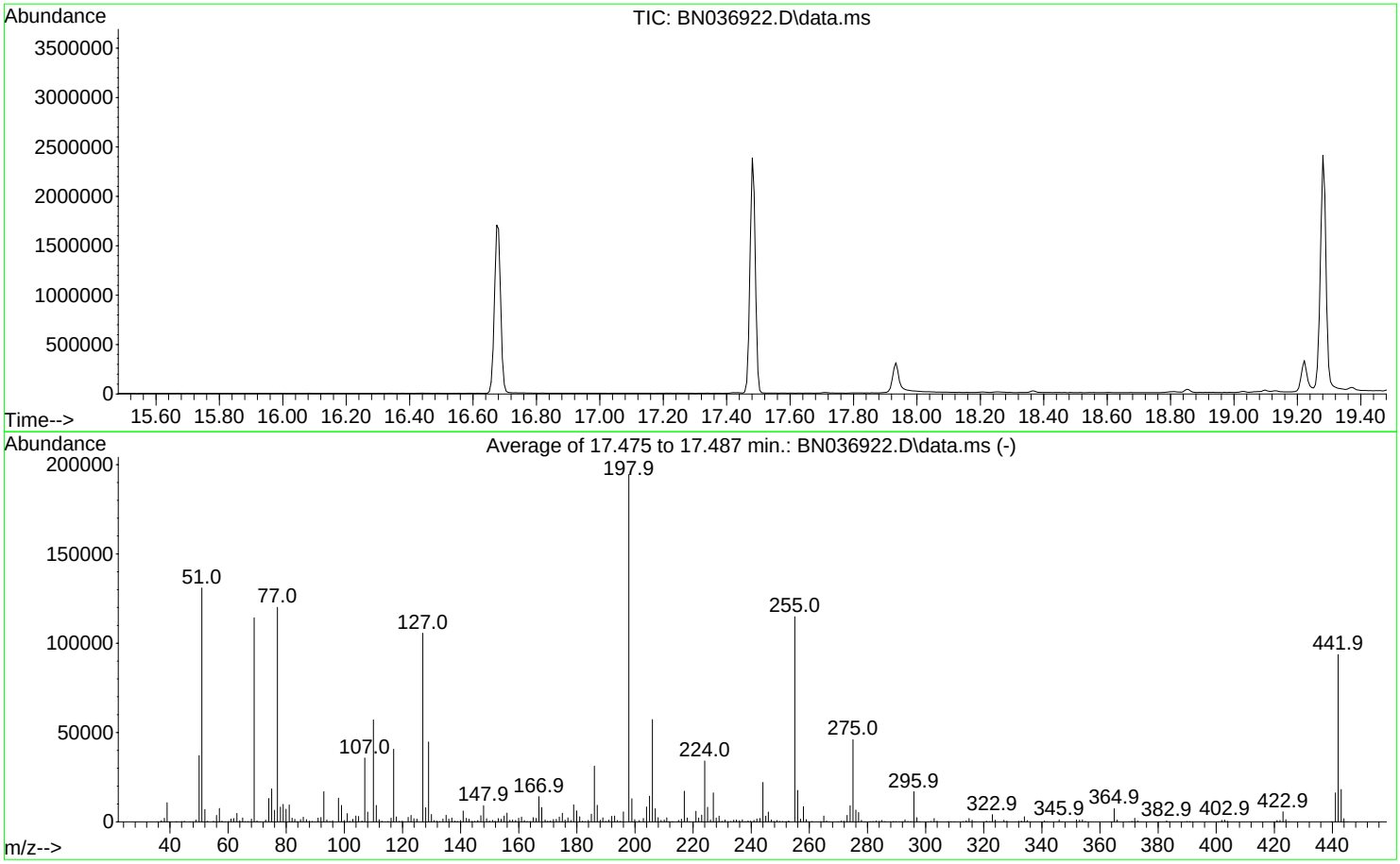
QC SAMPLE DATA

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042825\
Data File : BN036922.D
Acq On : 28 Apr 2025 10:56
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-BN042825.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Mon Apr 28 15:35:03 2025



AutoFind: Scans 2480, 2481, 2482; Background Corrected with Scan 2473

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	67.4	130988	PASS
68	69	0.00	2	1.4	1628	PASS
69	198	0.00	100	58.8	114280	PASS
70	69	0.00	2	0.4	478	PASS
127	198	10	80	54.3	105632	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	194475	PASS
199	198	5	9	6.7	12991	PASS
275	198	10	60	23.7	46040	PASS
365	198	1	100	3.8	7407	PASS
441	198	0.01	100	8.4	16253	PASS
442	442	50	100	100.0	93637	PASS
443	442	15	24	19.4	18149	PASS

Instrument :
BNA_N
ClientSampleId :
DFTPP

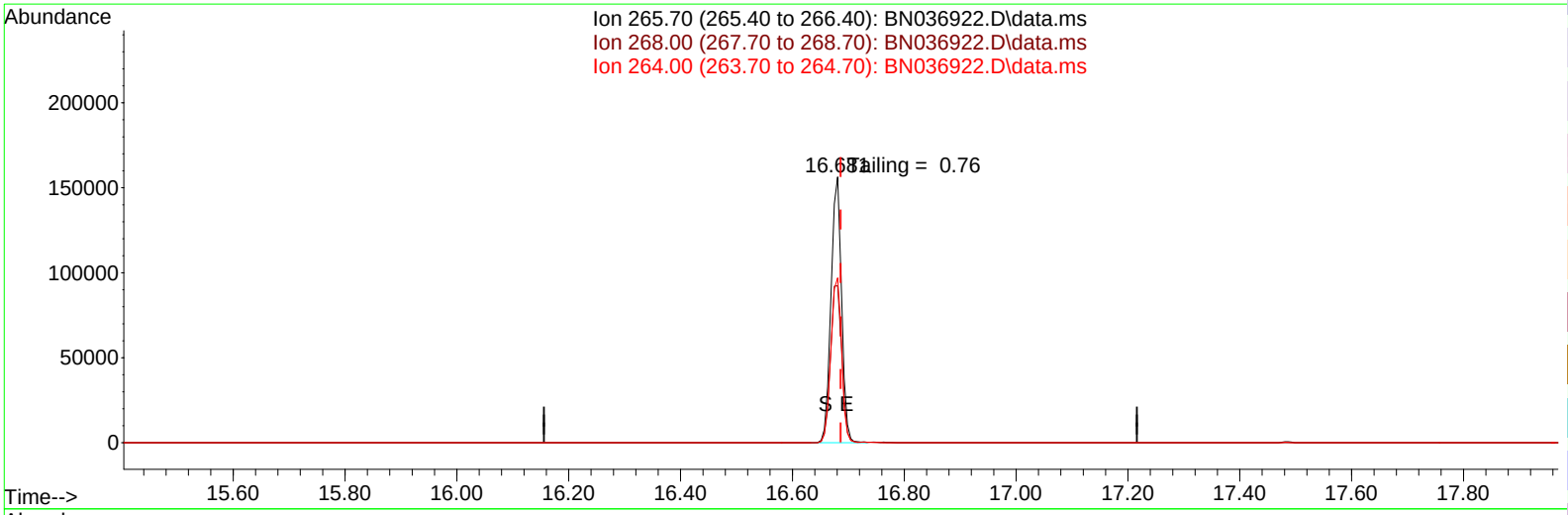
DDT Breakdown

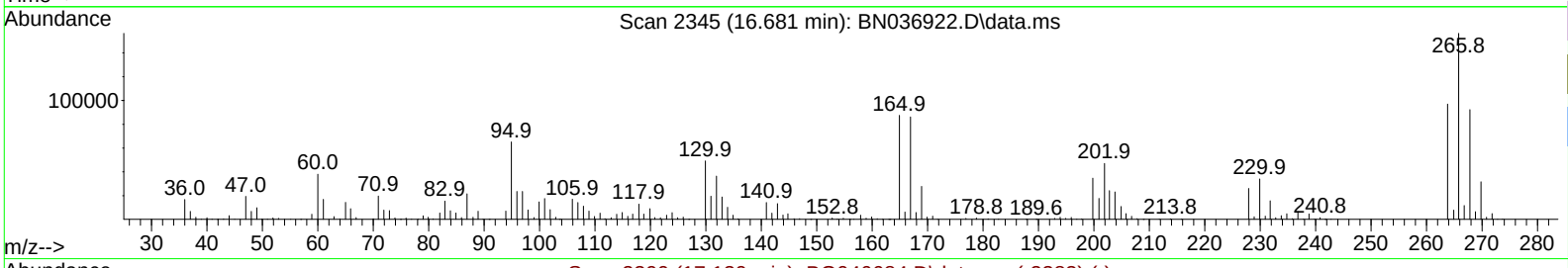
Date	Instrument Name	DFTPP Data File
4/28/2025	BNA_N	BN036922.D
Compound Name	**Response**	**Retention Time**
DDT	653394	20.522
DDD	6192	20.133
DDE	0	19.621
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
6192	659586	0.94

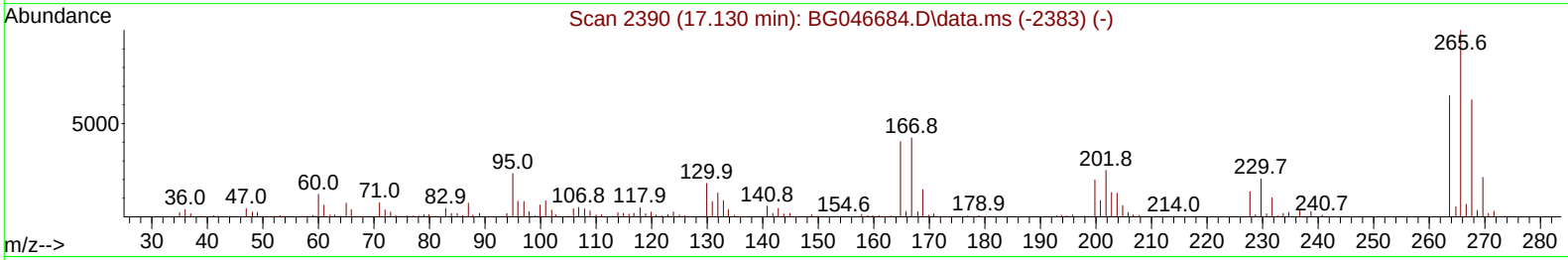
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042825\
Data File : BN036922.D
Acq On : 28 Apr 2025 10:56
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Apr 28 16:10:41 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 11 23:51:57 2025
Response via : Initial Calibration







TIC: BN036922.D\data.ms

(70) Pentachlorophenol (C)

16.681min (-0.005) 20278.92 ng

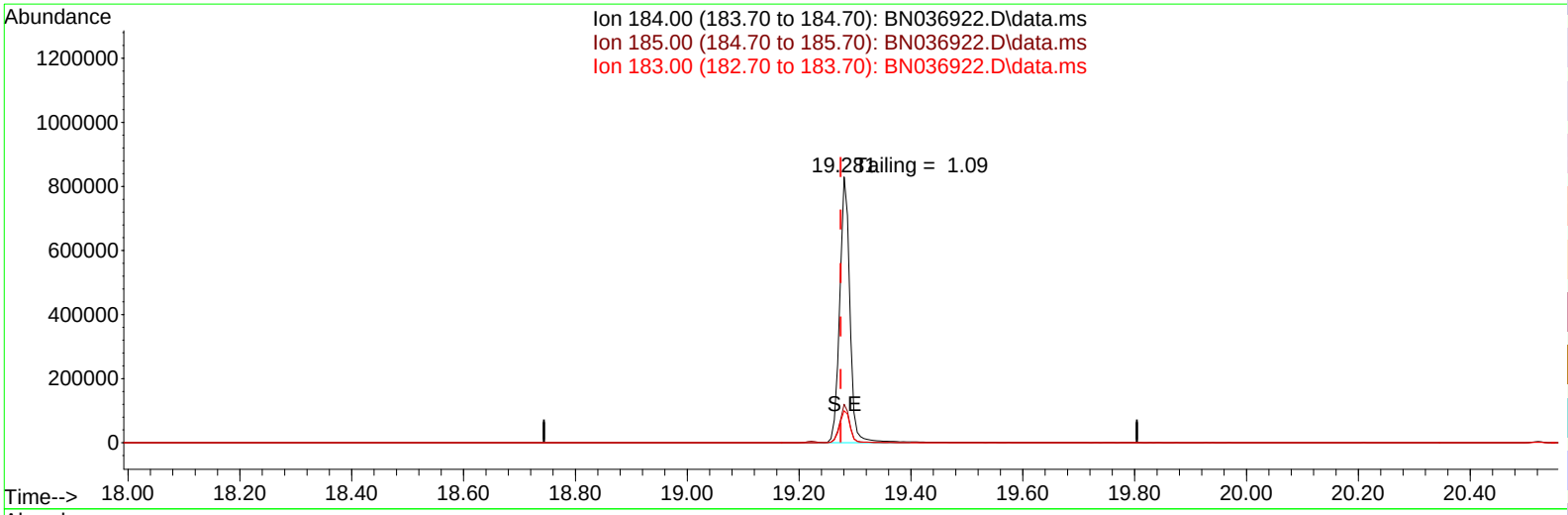
response 204659

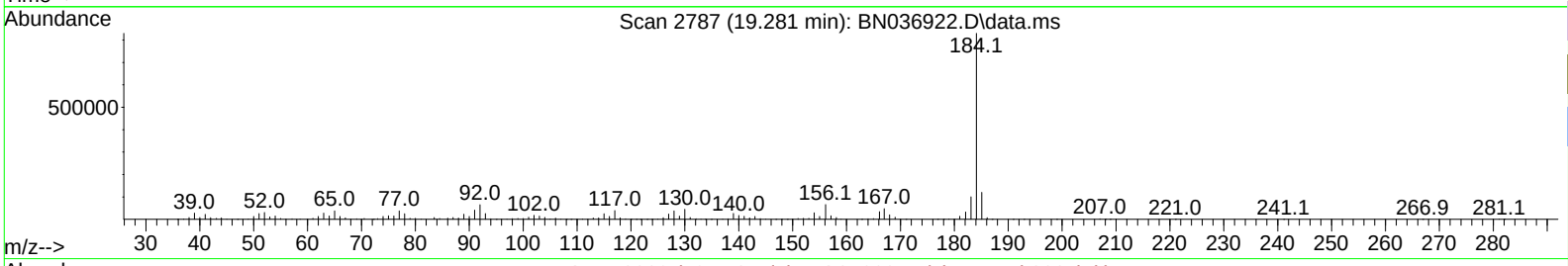
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	59.04
264.00	61.60	61.99
0.00	0.00	0.00

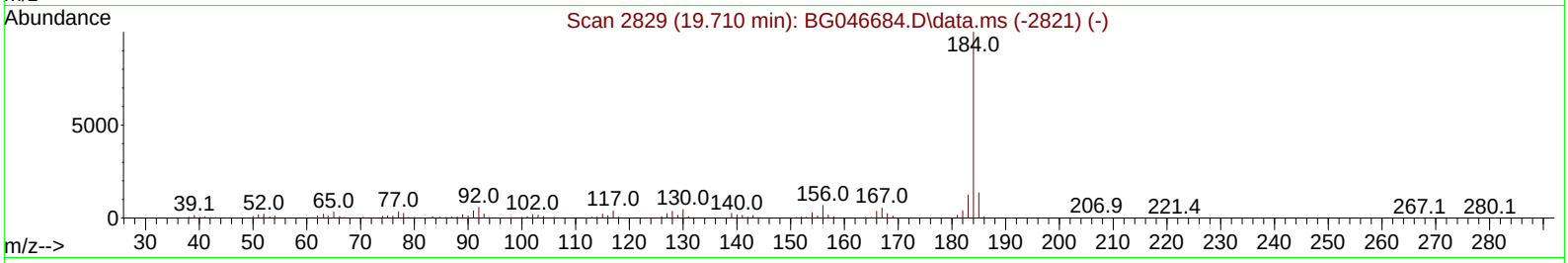
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042825\
Data File : BN036922.D
Acq On : 28 Apr 2025 10:56
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Apr 28 16:10:41 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 11 23:51:57 2025
Response via : Initial Calibration







TIC: BN036922.D\data.ms

(77) Benzidine

19.281min (+ 0.006) 0.00 ng

response 1065531

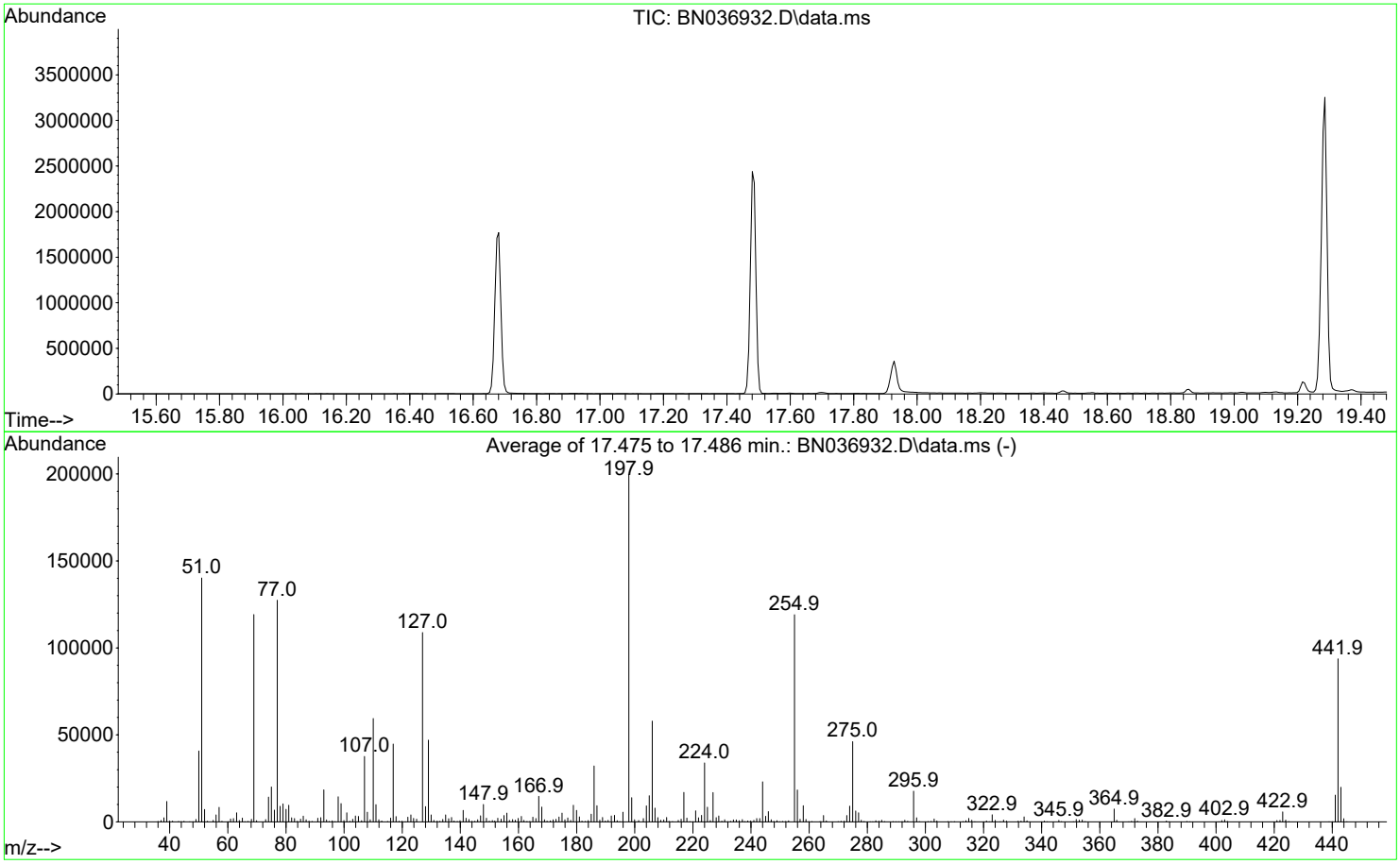
Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.51
183.00	13.20	12.08
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042925\
Data File : BN036932.D
Acq On : 29 Apr 2025 08:38
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-BN042825.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Mon Apr 28 15:35:03 2025



AutoFind: Scans 2480, 2481, 2482; Background Corrected with Scan 2474

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	70.2	140221	PASS
68	69	0.00	2	1.3	1520	PASS
69	198	0.00	100	59.7	119197	PASS
70	69	0.00	2	0.6	660	PASS
127	198	10	80	54.5	108805	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	199680	PASS
199	198	5	9	7.0	13909	PASS
275	198	10	60	23.1	46163	PASS
365	198	1	100	3.7	7389	PASS
441	198	0.01	100	7.7	15337	PASS
442	442	50	100	100.0	93763	PASS
443	442	15	24	21.2	19866	PASS

Instrument :
BNA_N
ClientSampleId :
DFTPP

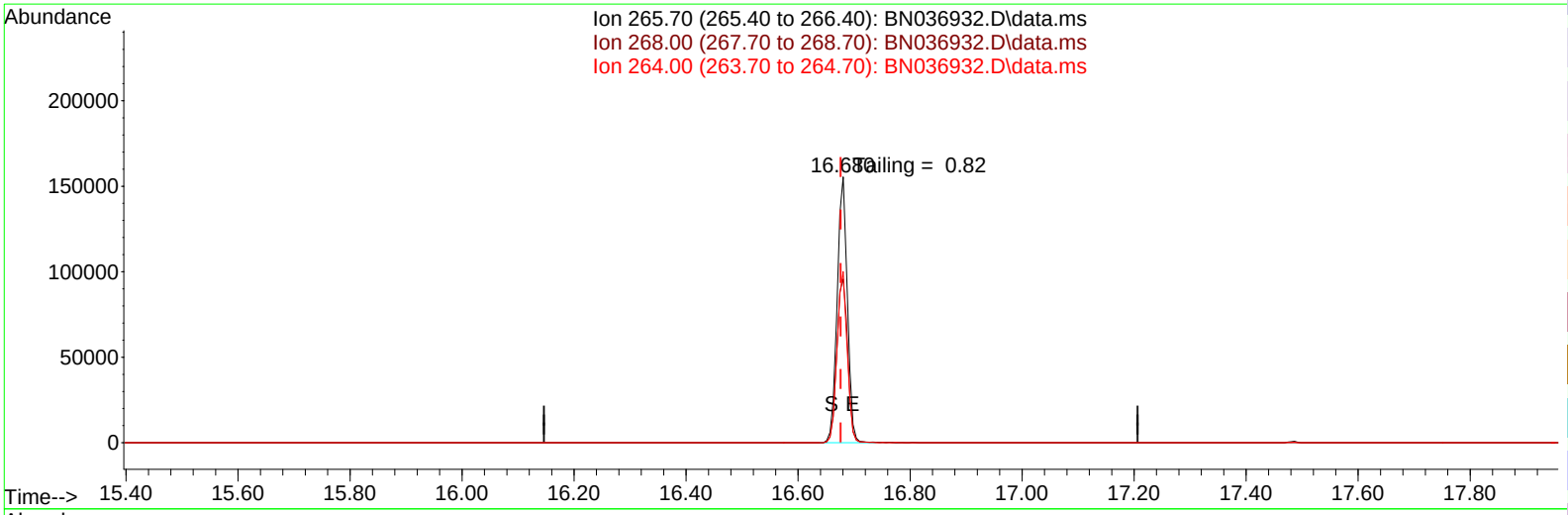
DDT Breakdown

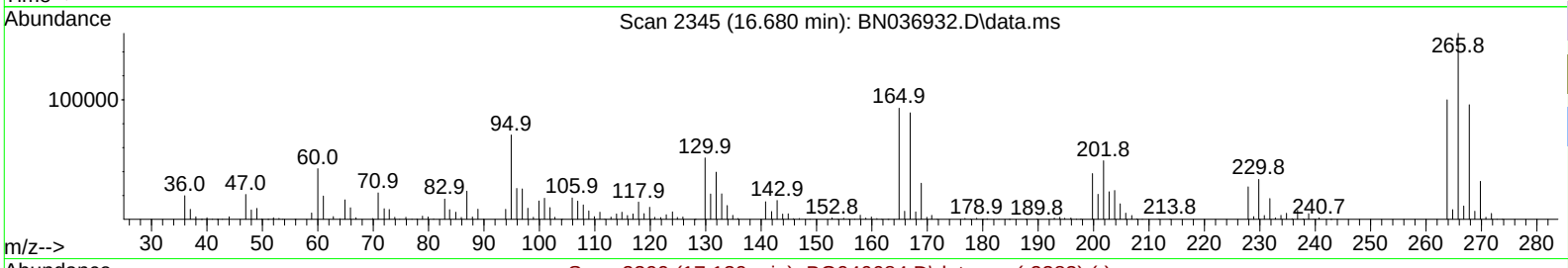
Date	Instrument Name	DFTPP Data File
4/29/2025	BNA_N	BN036934.D
Compound Name	**Response**	**Retention Time**
DDT	722011	20.521
DDD	5913	20.133
DDE	58	19.58
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
5971	727982	0.82

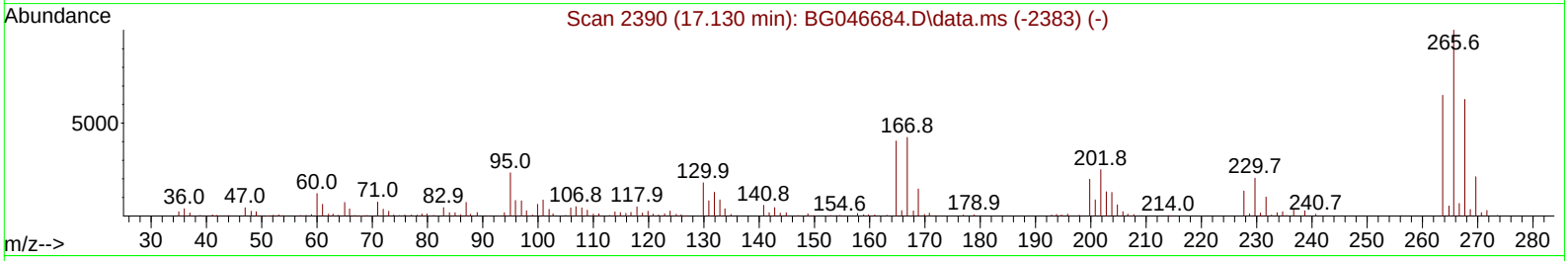
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042925\
Data File : BN036932.D
Acq On : 29 Apr 2025 08:38
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Apr 29 17:24:31 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 11 23:51:57 2025
Response via : Initial Calibration







TIC: BN036932.D\data.ms

(70) Pentachlorophenol (C)

16.680min (+ 0.005) 17951.16 ng

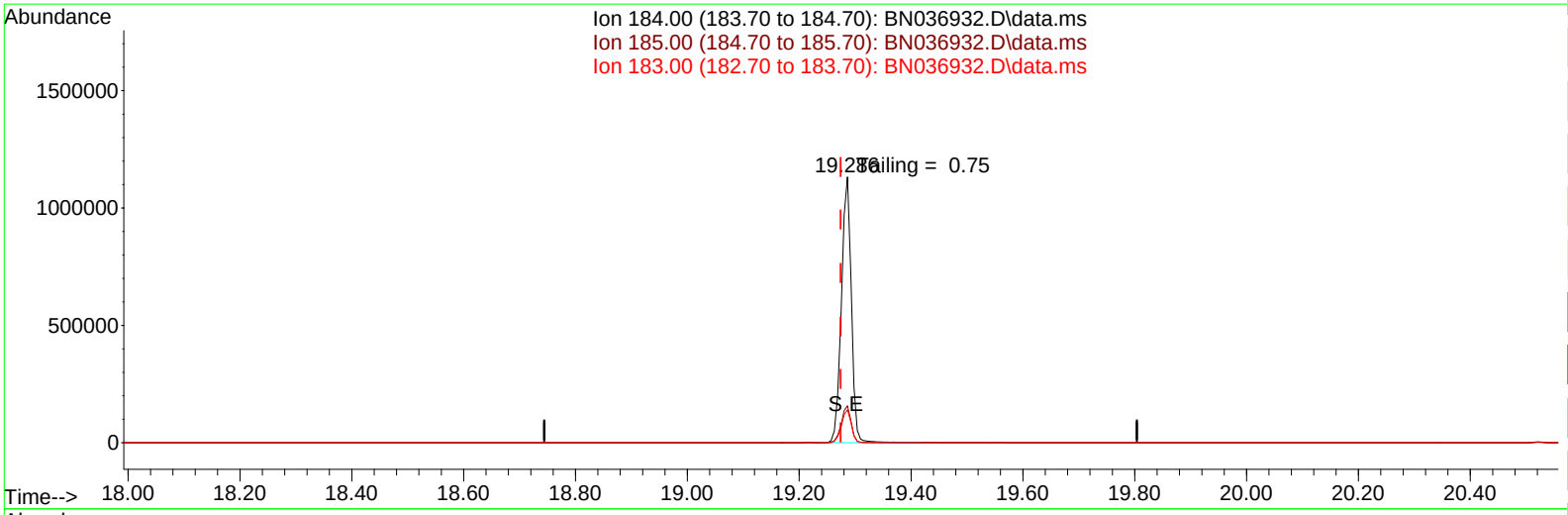
response 196804

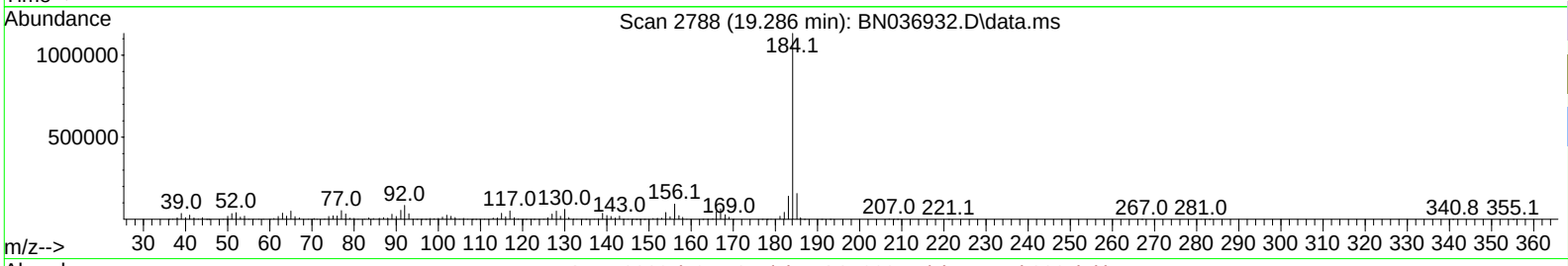
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	61.62
264.00	61.60	64.31
0.00	0.00	0.00

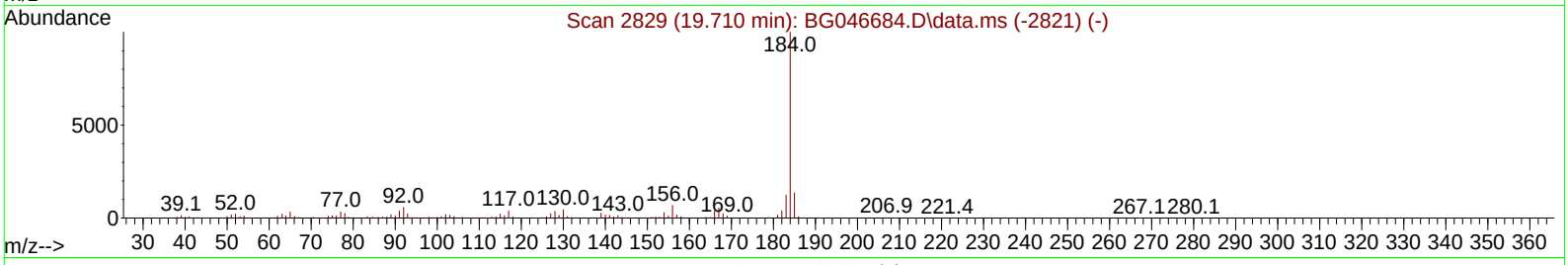
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042925\
Data File : BN036932.D
Acq On : 29 Apr 2025 08:38
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Apr 29 17:26:11 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 11 23:51:57 2025
Response via : Initial Calibration







TIC: BN036932.D\data.ms

(77) Benzidine

19.286min (+ 0.012) 0.00 ng

response 1411976

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	13.93
183.00	13.20	12.44
0.00	0.00	0.00

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

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ Waste Water PT	Date Received:	
Client Sample ID:	PB167728BL	SDG No.:	Q1870
Lab Sample ID:	PB167728BL	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group5
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
BN036934.D	1	04/24/25 12:05	04/29/25 09:53	PB167728

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
208-96-8	Acenaphthylene	0.040	U	0.040	0.10	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.32		20 - 139	81%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.36		30 - 150	90%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.33		27 - 154	82%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.35		25 - 149	88%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.37		54 - 175	91%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	2380	7.633			
1146-65-2	Naphthalene-d8	5570	10.415			
15067-26-2	Acenaphthene-d10	2870	14.277			
1517-22-2	Phenanthrene-d10	5720	17.021			
1719-03-5	Chrysene-d12	4280	21.215			
1520-96-3	Perylene-d12	3790	23.424			

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\BN042925\
Data File : BN036934.D
Acq On : 29 Apr 2025 09:53
Operator : RC/JU
Sample : PB167728BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB167728BL

Quant Time: Apr 29 10:49:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:35:03 2025
Response via : Initial Calibration

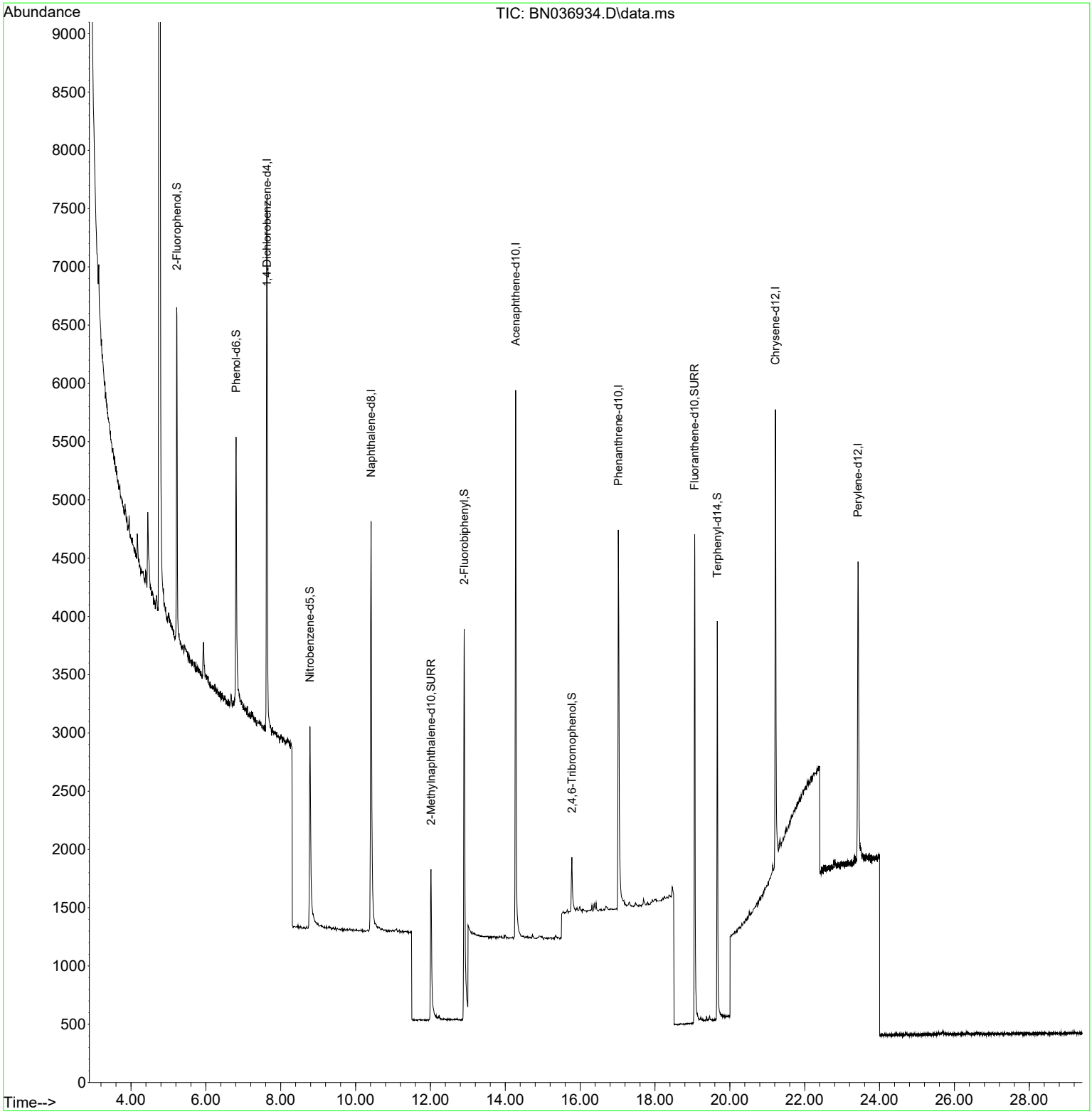
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.633	152	2379	0.400	ng	0.00
7) Naphthalene-d8	10.415	136	5573	0.400	ng	# 0.00
13) Acenaphthene-d10	14.277	164	2873	0.400	ng	0.00
19) Phenanthrene-d10	17.021	188	5718	0.400	ng	0.00
29) Chrysene-d12	21.215	240	4280	0.400	ng	0.00
35) Perylene-d12	23.424	264	3789	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.228	112	2056	0.338	ng	0.00
5) Phenol-d6	6.809	99	2289	0.306	ng	0.00
8) Nitrobenzene-d5	8.781	82	1914	0.328	ng	0.00
11) 2-Methylnaphthalene-d10	12.016	152	2522	0.324	ng	0.01
14) 2,4,6-Tribromophenol	15.780	330	349	0.273	ng	0.01
15) 2-Fluorobiphenyl	12.904	172	4916	0.354	ng	0.00
27) Fluoranthene-d10	19.059	212	5308	0.358	ng	0.00
31) Terphenyl-d14	19.667	244	3694	0.366	ng	0.00
Target Compounds						Qvalue

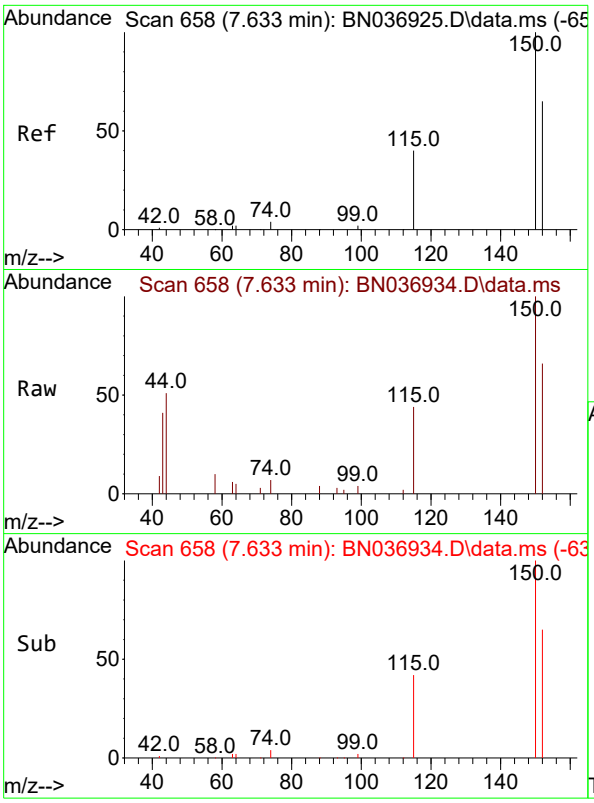
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042925\
Data File : BN036934.D
Acq On : 29 Apr 2025 09:53
Operator : RC/JU
Sample : PB167728BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB167728BL

Quant Time: Apr 29 10:49:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:35:03 2025
Response via : Initial Calibration



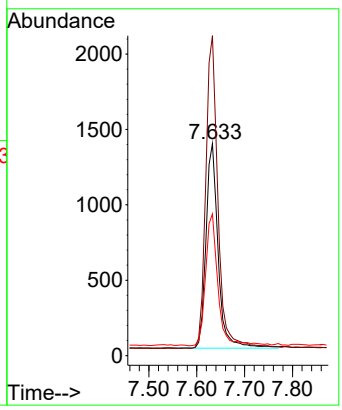


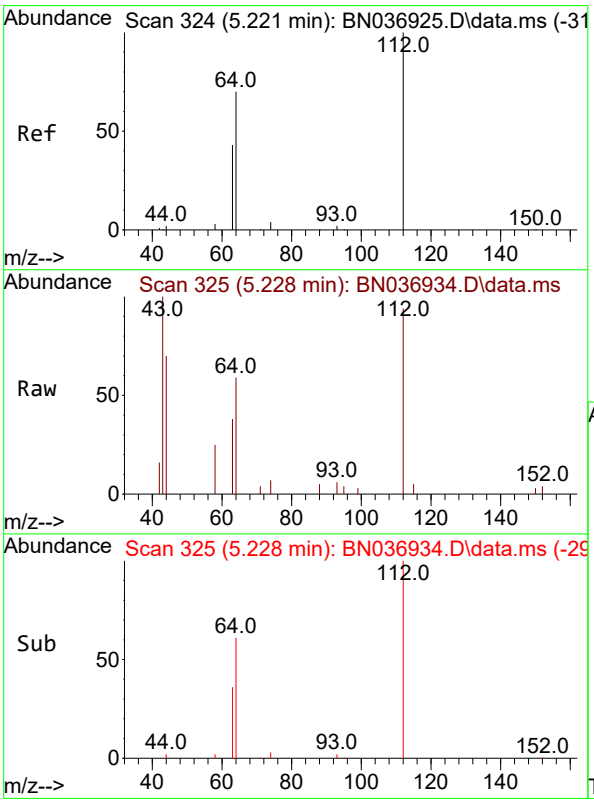
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.633 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN036934.D
Acq: 29 Apr 2025 09:53

Instrument :
BNA_N
ClientSampleId :
PB167728BL

Tgt Ion:152 Resp: 2379

Ion	Ratio	Lower	Upper
152	100		
150	150.9	121.1	181.7
115	66.9	51.8	77.6

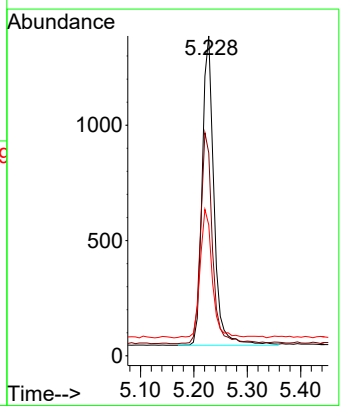


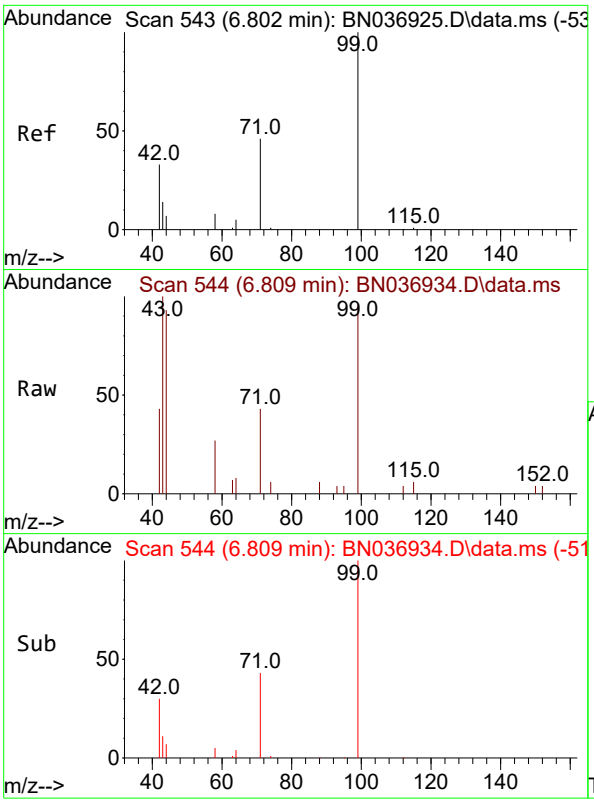


#4
2-Fluorophenol
Concen: 0.338 ng
RT: 5.228 min Scan# 325
Delta R.T. 0.007 min
Lab File: BN036934.D
Acq: 29 Apr 2025 09:53

Tgt Ion:112 Resp: 2056

Ion	Ratio	Lower	Upper
112	100		
64	68.1	55.7	83.5
63	42.8	33.9	50.9



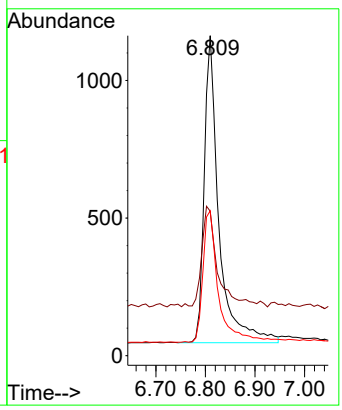


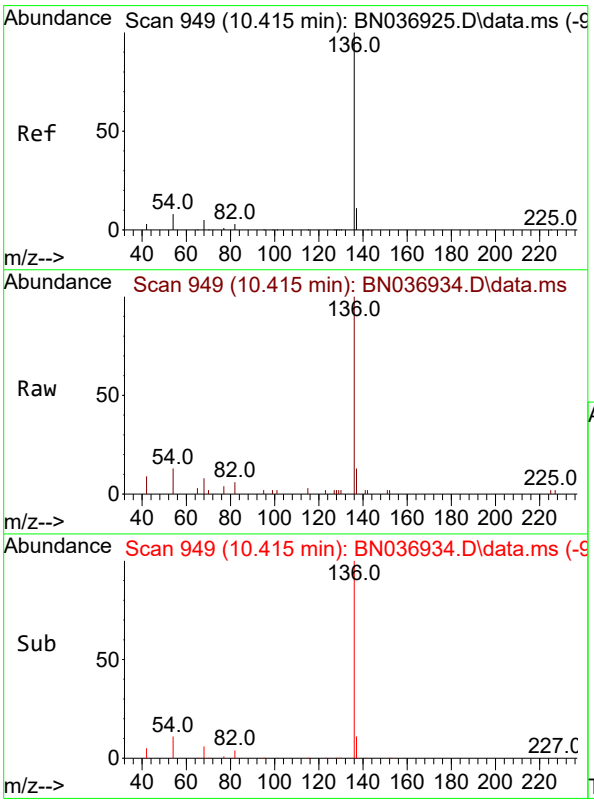
#5
Phenol-d6
Concen: 0.306 ng
RT: 6.809 min Scan# 54
Delta R.T. 0.007 min
Lab File: BN036934.D
Acq: 29 Apr 2025 09:53

Instrument :
BNA_N
ClientSampleId :
PB167728BL

Tgt Ion: 99 Resp: 2289

Ion	Ratio	Lower	Upper
99	100		
42	36.1	29.6	44.4
71	45.8	36.0	54.0

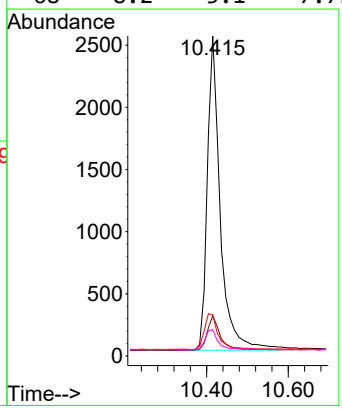


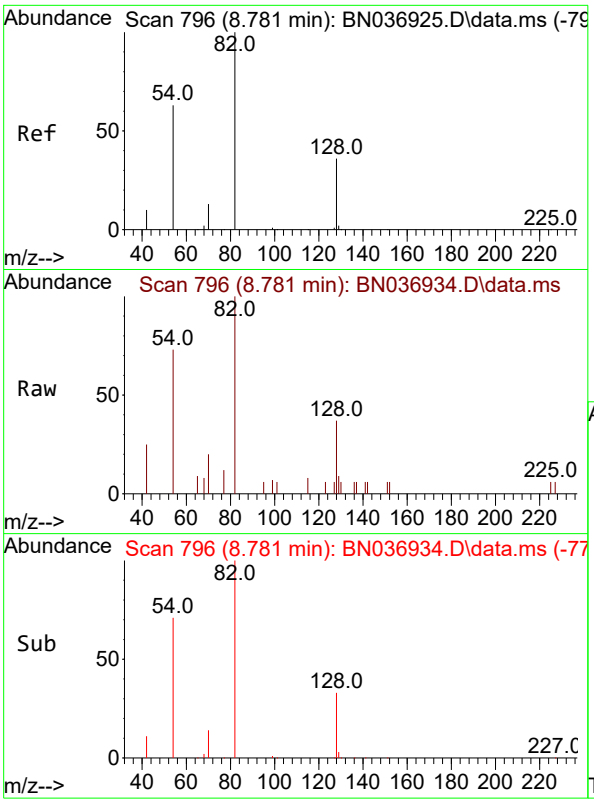


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.415 min Scan# 949
Delta R.T. -0.000 min
Lab File: BN036934.D
Acq: 29 Apr 2025 09:53

Tgt Ion:136 Resp: 5573

Ion	Ratio	Lower	Upper
136	100		
137	12.6	9.7	14.5
54	12.9	8.0	12.0#
68	8.2	5.1	7.7#



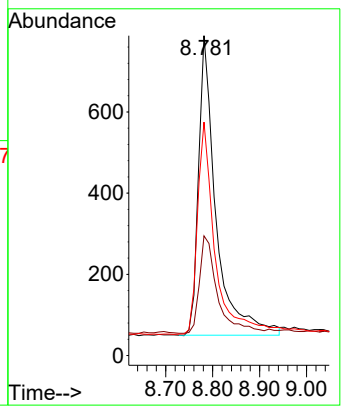


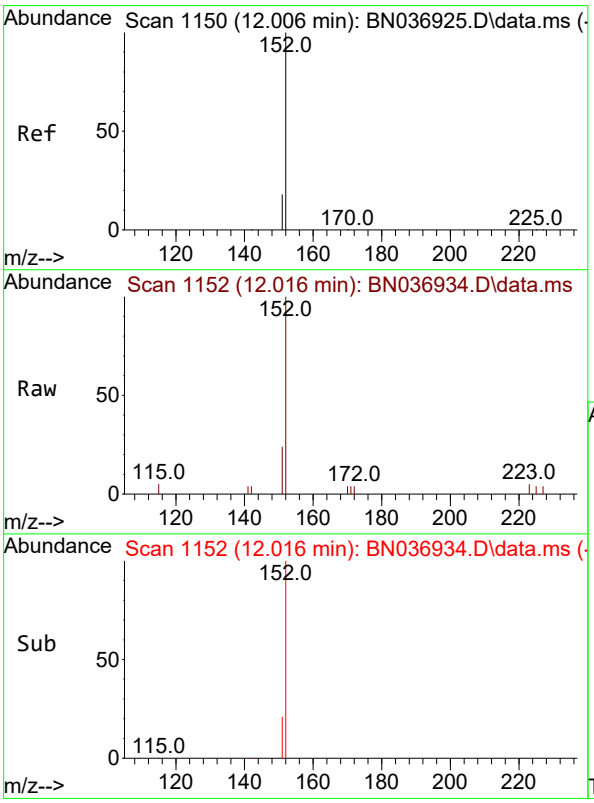
#8
Nitrobenzene-d5
Concen: 0.328 ng
RT: 8.781 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN036934.D
Acq: 29 Apr 2025 09:53

Instrument :
BNA_N
ClientSampleId :
PB167728BL

Tgt Ion: 82 Resp: 1914

Ion	Ratio	Lower	Upper
82	100		
128	37.4	30.7	46.1
54	73.0	52.1	78.1

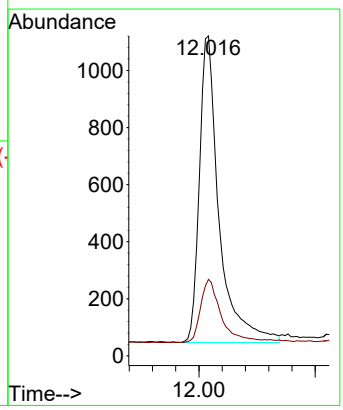


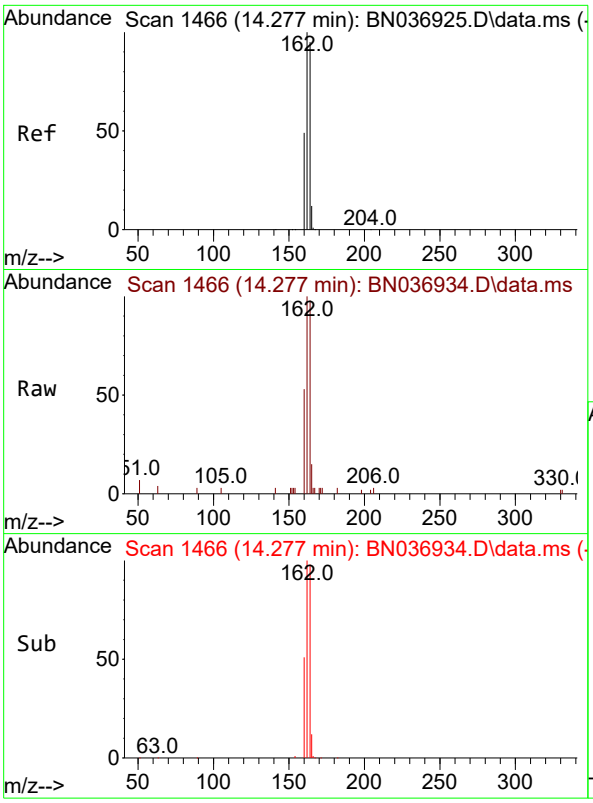


#11
2-Methylnaphthalene-d10
Concen: 0.324 ng
RT: 12.016 min Scan# 1152
Delta R.T. 0.010 min
Lab File: BN036934.D
Acq: 29 Apr 2025 09:53

Tgt Ion:152 Resp: 2522

Ion	Ratio	Lower	Upper
152	100		
151	21.3	16.9	25.3



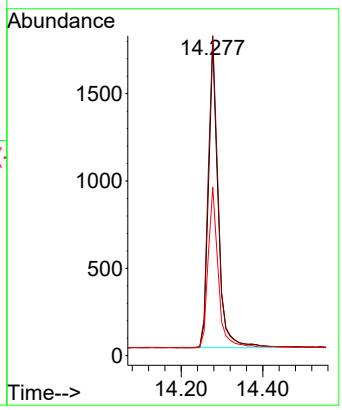


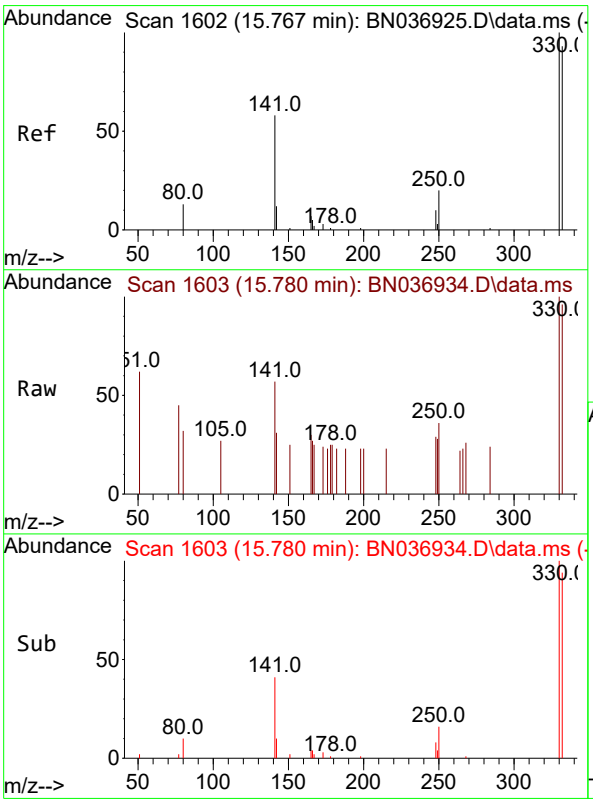
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.277 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN036934.D
Acq: 29 Apr 2025 09:53

Instrument :
BNA_N
ClientSampleId :
PB167728BL

Tgt Ion:164 Resp: 2873

Ion	Ratio	Lower	Upper
164	100		
162	102.4	83.8	125.8
160	53.9	42.0	63.0

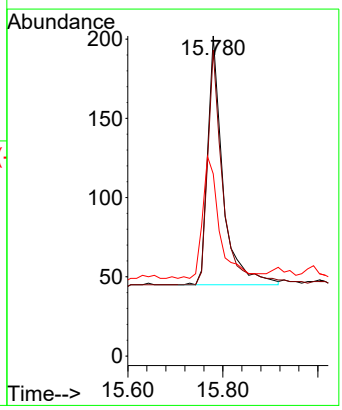


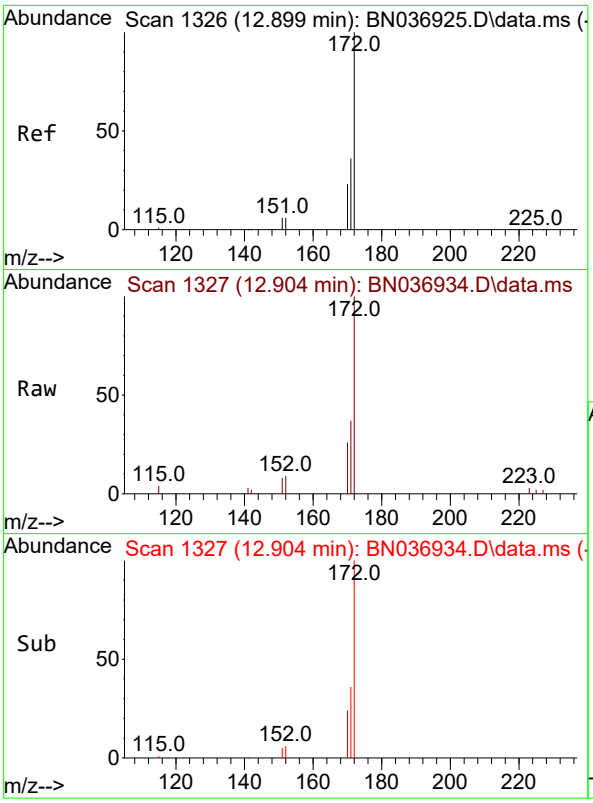


#14
2,4,6-Tribromophenol
Concen: 0.273 ng
RT: 15.780 min Scan# 1603
Delta R.T. 0.012 min
Lab File: BN036934.D
Acq: 29 Apr 2025 09:53

Tgt Ion:330 Resp: 349

Ion	Ratio	Lower	Upper
330	100		
332	94.0	76.3	114.5
141	54.2	45.4	68.2



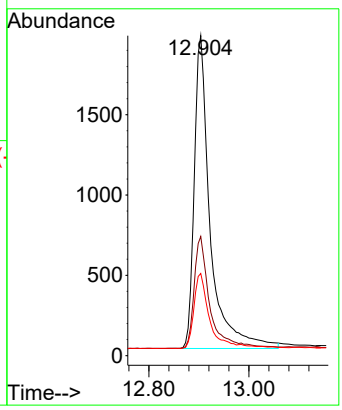


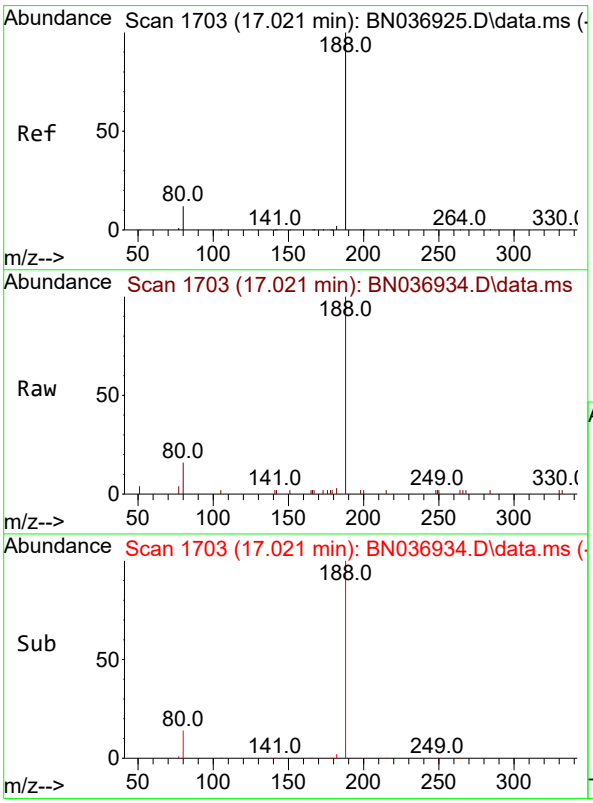
#15
2-Fluorobiphenyl
Concen: 0.354 ng
RT: 12.904 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN036934.D
Acq: 29 Apr 2025 09:53

Instrument :
BNA_N
ClientSampleId :
PB167728BL

Tgt Ion:172 Resp: 4916

Ion	Ratio	Lower	Upper
172	100		
171	37.2	29.4	44.0
170	25.7	19.4	29.0

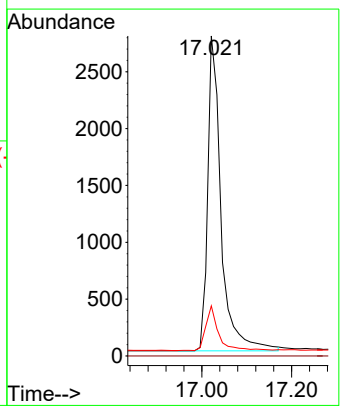


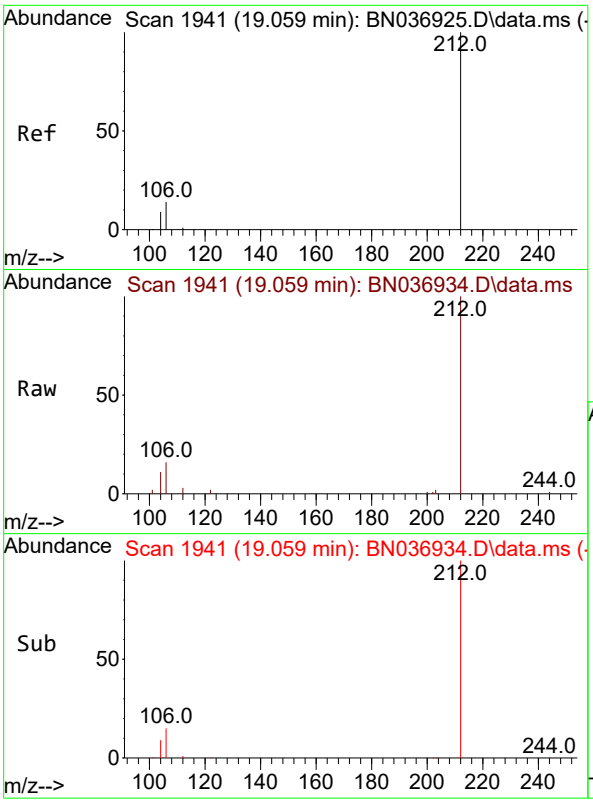


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.021 min Scan# 1703
Delta R.T. -0.000 min
Lab File: BN036934.D
Acq: 29 Apr 2025 09:53

Tgt Ion:188 Resp: 5718

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	15.7	10.7	16.1



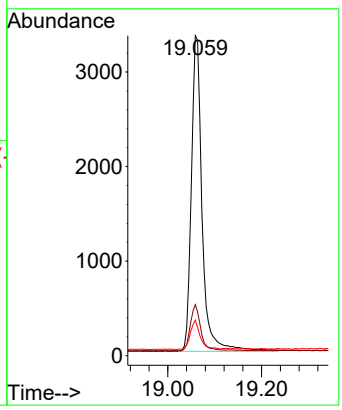


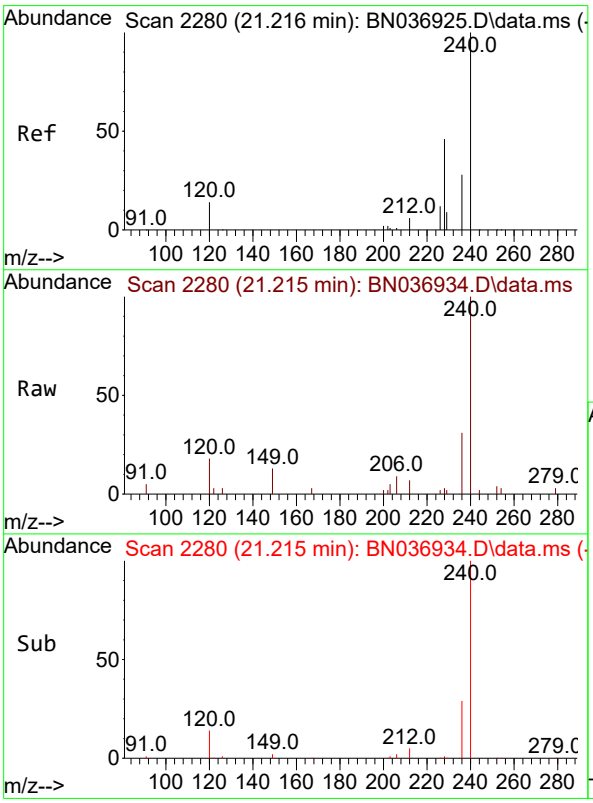
#27
Fluoranthene-d10
Concen: 0.358 ng
RT: 19.059 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN036934.D
Acq: 29 Apr 2025 09:53

Instrument :
BNA_N
ClientSampleId :
PB167728BL

Tgt Ion:212 Resp: 5308

Ion	Ratio	Lower	Upper
212	100		
106	14.0	11.6	17.4
104	8.8	7.0	10.4

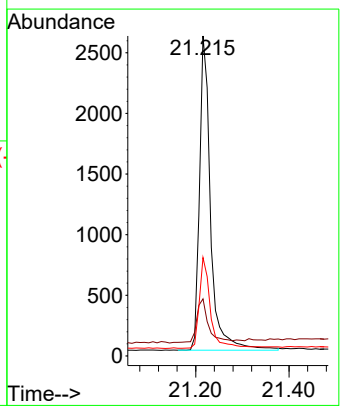


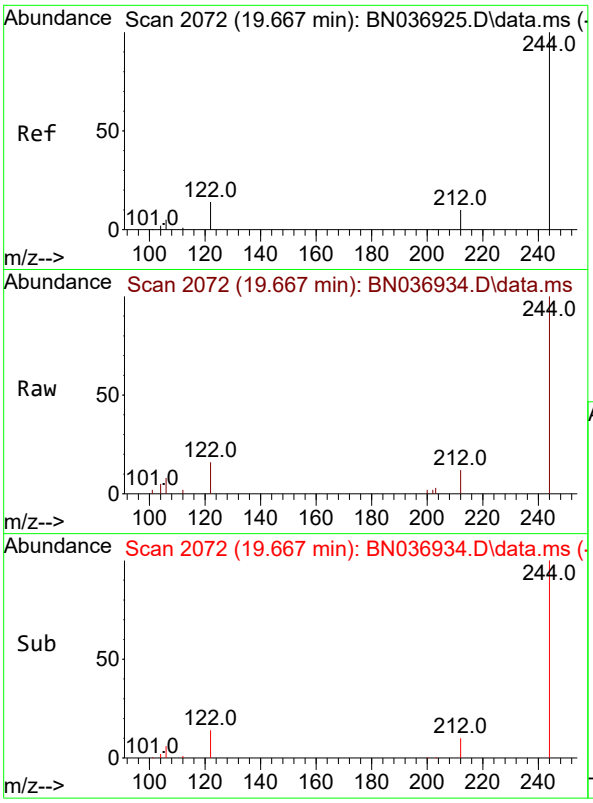


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.215 min Scan# 2280
Delta R.T. -0.000 min
Lab File: BN036934.D
Acq: 29 Apr 2025 09:53

Tgt Ion:240 Resp: 4280

Ion	Ratio	Lower	Upper
240	100		
120	17.8	14.1	21.1
236	30.8	23.8	35.8



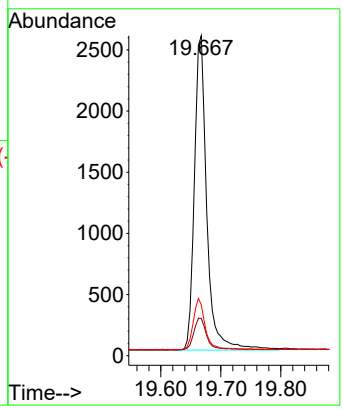


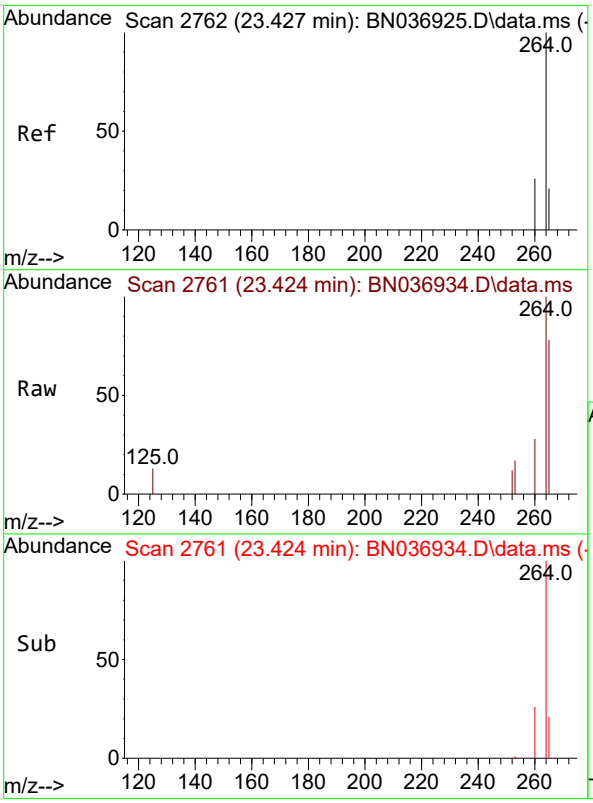
#31
Terphenyl-d14
Concen: 0.366 ng
RT: 19.667 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN036934.D
Acq: 29 Apr 2025 09:53

Instrument :
BNA_N
ClientSampleId :
PB167728BL

Tgt Ion:244 Resp: 3694

Ion	Ratio	Lower	Upper
244	100		
212	11.6	9.6	14.4
122	15.9	12.7	19.1

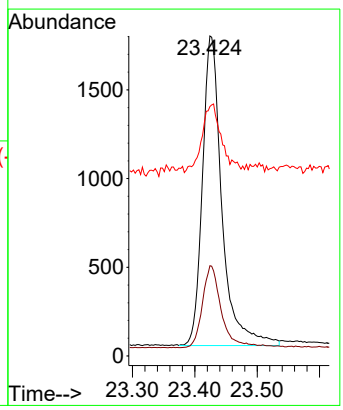




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.424 min Scan# 2761
Delta R.T. -0.003 min
Lab File: BN036934.D
Acq: 29 Apr 2025 09:53

Tgt Ion:264 Resp: 3789

Ion	Ratio	Lower	Upper
264	100		
260	28.2	22.2	33.2
265	77.9	65.8	98.6



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

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ Waste Water PT	Date Received:	
Client Sample ID:	PB167728BS	SDG No.:	Q1870
Lab Sample ID:	PB167728BS	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group5
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
BN036939.D	1	04/24/25 12:05	04/29/25 14:54	PB167728

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
208-96-8	Acenaphthylene	0.37		0.040	0.10	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.37		20 - 139	93%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.33		30 - 150	82%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.35		27 - 154	87%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.37		25 - 149	92%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.36		54 - 175	89%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	2630	7.633			
1146-65-2	Naphthalene-d8	6460	10.415			
15067-26-2	Acenaphthene-d10	3310	14.277			
1517-22-2	Phenanthrene-d10	6630	17.021			
1719-03-5	Chrysene-d12	4620	21.215			
1520-96-3	Perylene-d12	3650	23.427			

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\BN042925\
Data File : BN036939.D
Acq On : 29 Apr 2025 14:54
Operator : RC/JU
Sample : PB167728BS
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 29 17:05:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:35:03 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
PB167728BS

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 04/30/2025
Supervised By :Jagrut Upadhyay 04/30/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.633	152	2630	0.400	ng	0.00
7) Naphthalene-d8	10.415	136	6464	0.400	ng	0.00
13) Acenaphthene-d10	14.277	164	3313	0.400	ng	0.00
19) Phenanthrene-d10	17.021	188	6630	0.400	ng	0.00
29) Chrysene-d12	21.215	240	4615	0.400	ng	0.00
35) Perylene-d12	23.427	264	3648	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.228	112	2288	0.340	ng	0.00
5) Phenol-d6	6.802	99	2763	0.334	ng	0.00
8) Nitrobenzene-d5	8.781	82	2355	0.348	ng	0.00
11) 2-Methylnaphthalene-d10	12.006	152	3375m	0.373	ng	0.00
14) 2,4,6-Tribromophenol	15.767	330	425	0.288	ng	0.00
15) 2-Fluorobiphenyl	12.899	172	5876	0.367	ng	0.00
27) Fluoranthene-d10	19.059	212	5638	0.328	ng	0.00
31) Terphenyl-d14	19.667	244	3891	0.357	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.148	88	987	0.301	ng	# 29
3) n-Nitrosodimethylamine	3.458	42	2316	0.364	ng	# 96
6) bis(2-Chloroethyl)ether	7.062	93	2793	0.364	ng	100
9) Naphthalene	10.458	128	6723	0.357	ng	99
10) Hexachlorobutadiene	10.746	225	1495	0.367	ng	# 98
12) 2-Methylnaphthalene	12.082	142	4170	0.343	ng	99
16) Acenaphthylene	13.989	152	5922	0.366	ng	100
17) Acenaphthene	14.341	154	3799	0.357	ng	100
18) Fluorene	15.325	166	4845	0.348	ng	99
20) 4,6-Dinitro-2-methylph...	15.410	198	500	0.285	ng	# 84
21) 4-Bromophenyl-phenylether	16.227	248	1453	0.328	ng	97
22) Hexachlorobenzene	16.338	284	1684	0.347	ng	99
23) Atrazine	16.500	200	1212	0.339	ng	100
24) Pentachlorophenol	16.673	266	1129	0.434	ng	98
25) Phenanthrene	17.058	178	7651	0.350	ng	100
26) Anthracene	17.158	178	6917	0.349	ng	99
28) Fluoranthene	19.091	202	8047	0.328	ng	99
30) Pyrene	19.454	202	8127	0.366	ng	100
32) Benzo(a)anthracene	21.206	228	6248	0.368	ng	99
33) Chrysene	21.251	228	6782	0.370	ng	98
34) Bis(2-ethylhexyl)phtha...	21.144	149	3141	0.325	ng	100
36) Indeno(1,2,3-cd)pyrene	25.646	276	5275	0.354	ng	98
37) Benzo(b)fluoranthene	22.769	252	5467	0.356	ng	98
38) Benzo(k)fluoranthene	22.810	252	5750	0.373	ng	99
39) Benzo(a)pyrene	23.333	252	4786	0.380	ng	98
40) Dibenzo(a,h)anthracene	25.661	278	4085	0.348	ng	97
41) Benzo(g,h,i)perylene	26.324	276	4245	0.326	ng	99

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

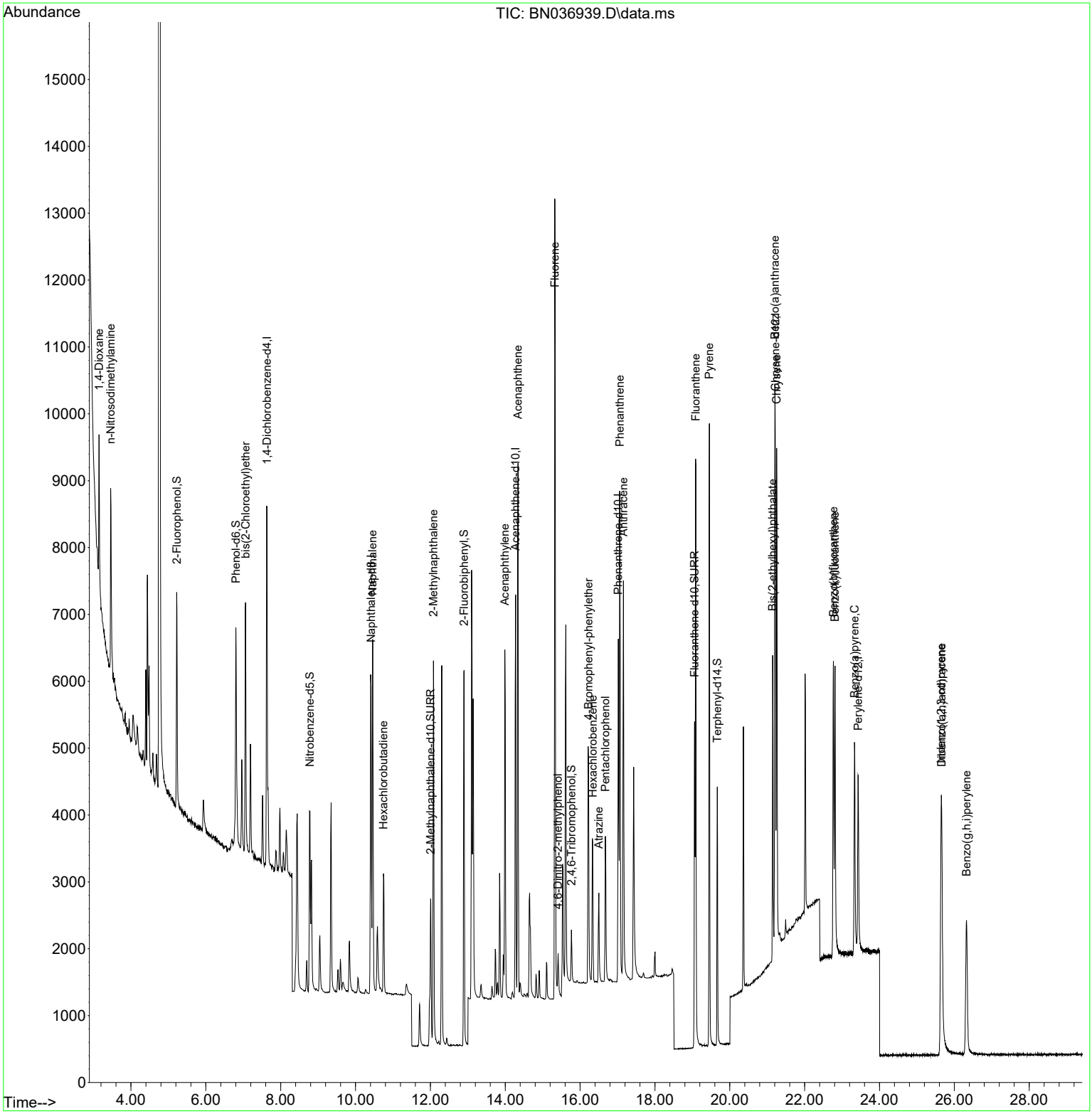
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042925\
Data File : BN036939.D
Acq On : 29 Apr 2025 14:54
Operator : RC/JU
Sample : PB167728BS
Misc :
ALS Vial : 10 Sample Multiplier: 1

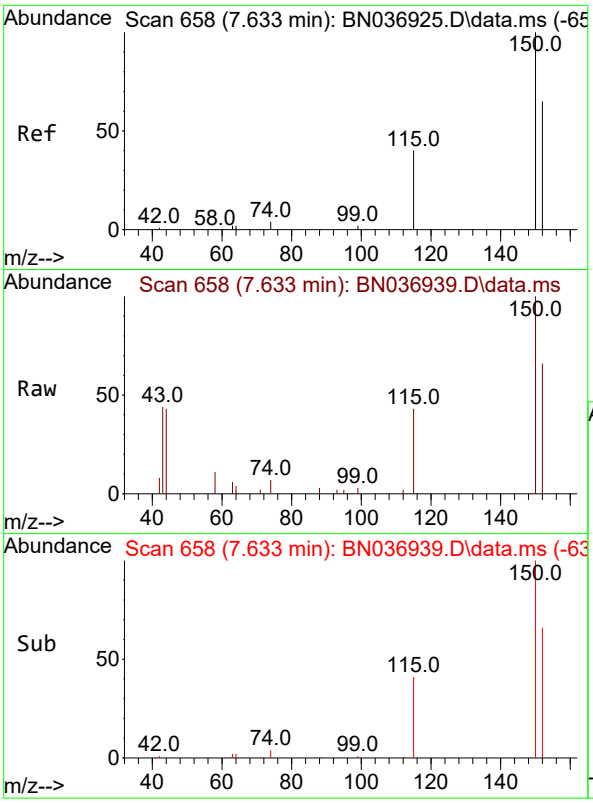
Quant Time: Apr 29 17:05:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:35:03 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
PB167728BS

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 04/30/2025
Supervised By :Jagrut Upadhyay 04/30/2025

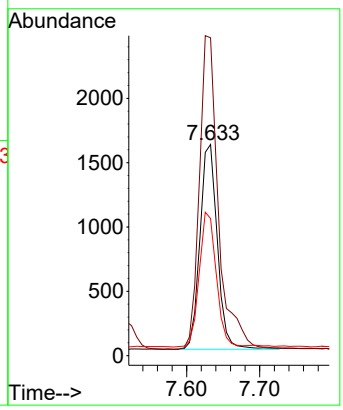




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.633 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN036939.D
Acq: 29 Apr 2025 14:54

Tgt Ion:152 Resp: 263

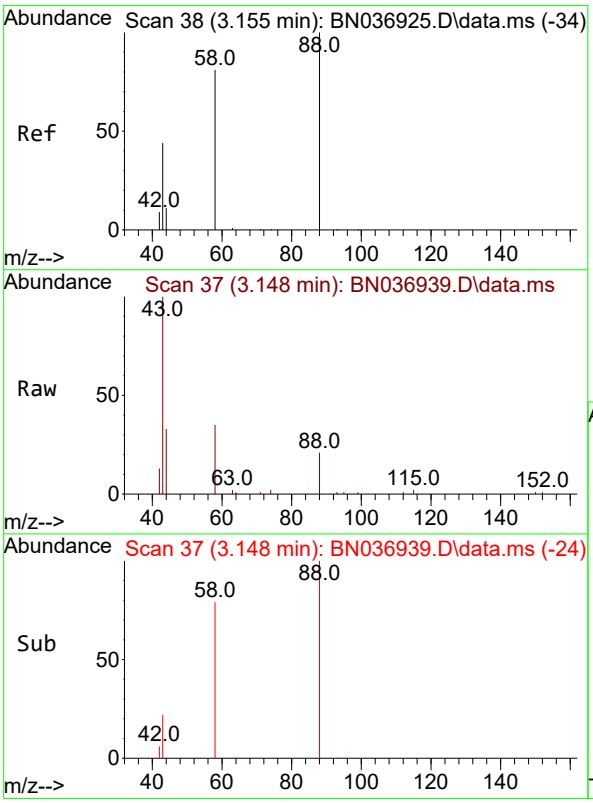
Ion	Ratio	Lower	Upper
152	100		
150	150.6	121.1	181.7
115	64.9	51.8	77.6



Instrument :
BNA_N
ClientSampleId :
PB167728BS

Manual Integrations
APPROVED

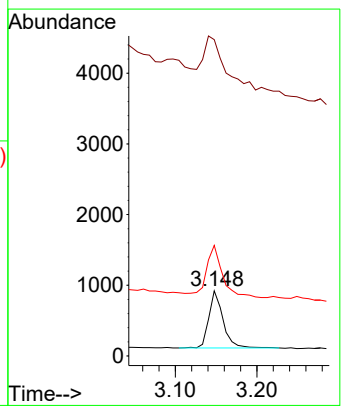
Reviewed By :Rahul Chavli 04/30/2025
Supervised By :Jagrut Upadhyay 04/30/2025

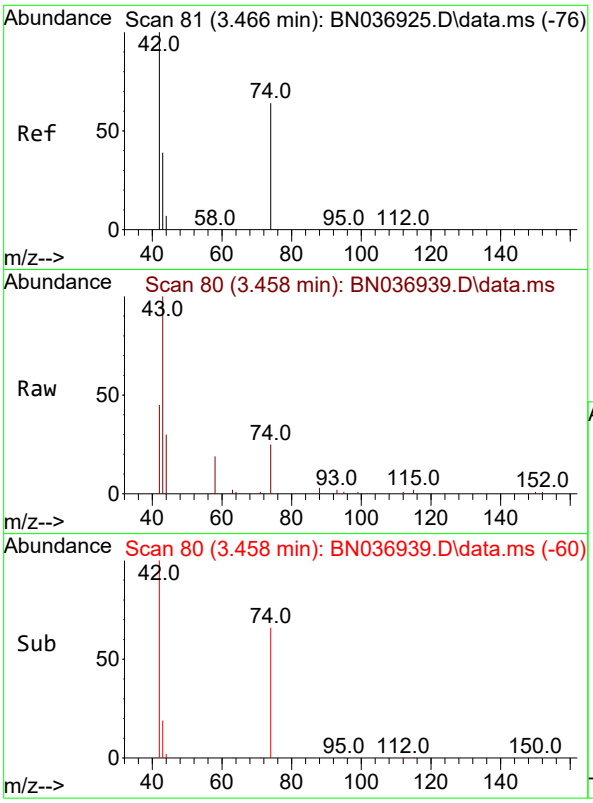


#2
1,4-Dioxane
Concen: 0.301 ng
RT: 3.148 min Scan# 37
Delta R.T. -0.007 min
Lab File: BN036939.D
Acq: 29 Apr 2025 14:54

Tgt Ion: 88 Resp: 987

Ion	Ratio	Lower	Upper
88	100		
43	149.1	37.9	56.9#
58	104.5	65.8	98.6#

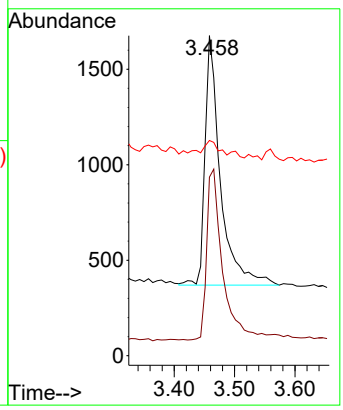




#3
n-Nitrosodimethylamine
Concen: 0.364 ng
RT: 3.458 min Scan# 8
Delta R.T. -0.007 min
Lab File: BN036939.D
Acq: 29 Apr 2025 14:54

Tgt Ion: 42 Resp: 231

Ion	Ratio	Lower	Upper
42	100		
74	72.8	59.9	89.9
44	4.5	7.5	11.3



Instrument :
BNA_N
ClientSampleId :
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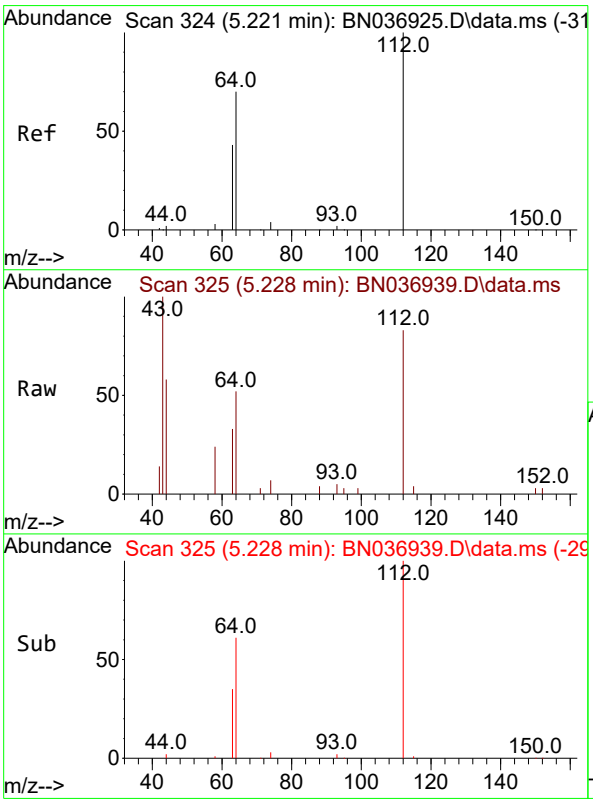
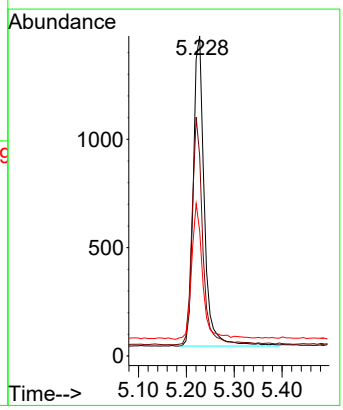
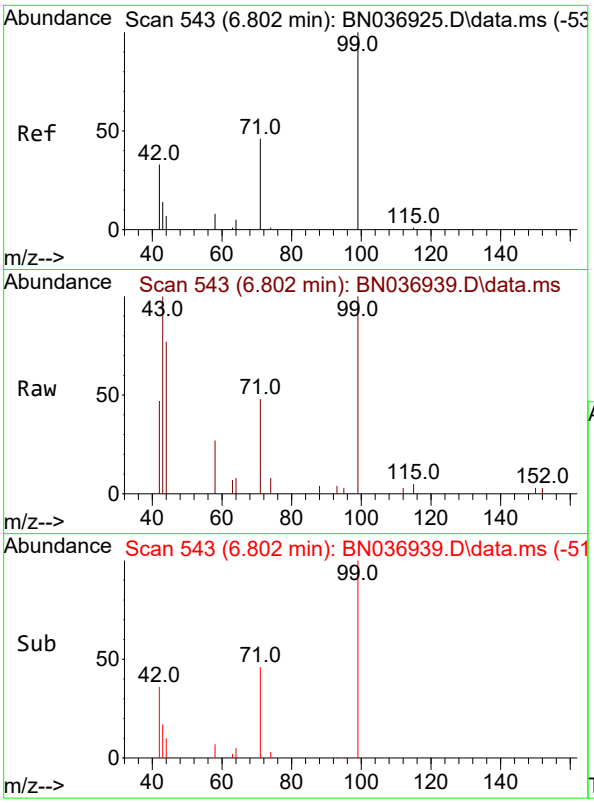


#4
2-Fluorophenol
Concen: 0.340 ng
RT: 5.228 min Scan# 325
Delta R.T. 0.007 min
Lab File: BN036939.D
Acq: 29 Apr 2025 14:54

Tgt Ion:112 Resp: 2288

Ion	Ratio	Lower	Upper
112	100		
64	70.0	55.7	83.5
63	44.3	33.9	50.9

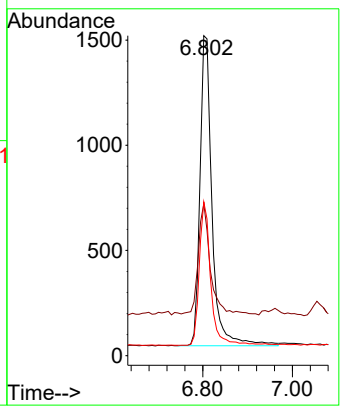




#5
Phenol-d6
Concen: 0.334 ng
RT: 6.802 min Scan# 54
Delta R.T. -0.000 min
Lab File: BN036939.D
Acq: 29 Apr 2025 14:54

Tgt Ion: 99 Resp: 276

Ion	Ratio	Lower	Upper
99	100		
42	35.1	29.6	44.4
71	43.8	36.0	54.0



Instrument :
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ClientSampleId :
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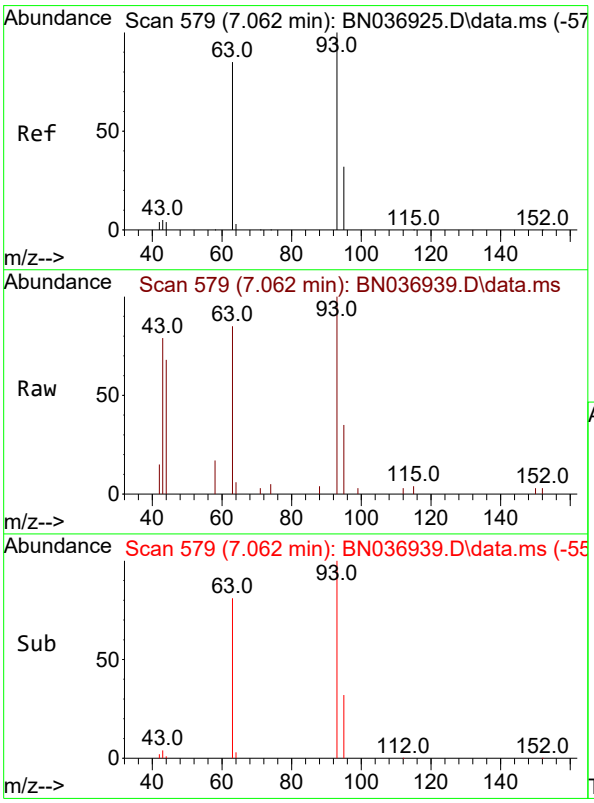
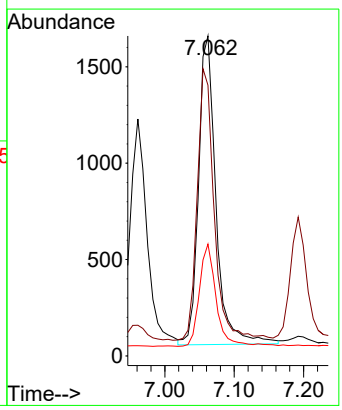
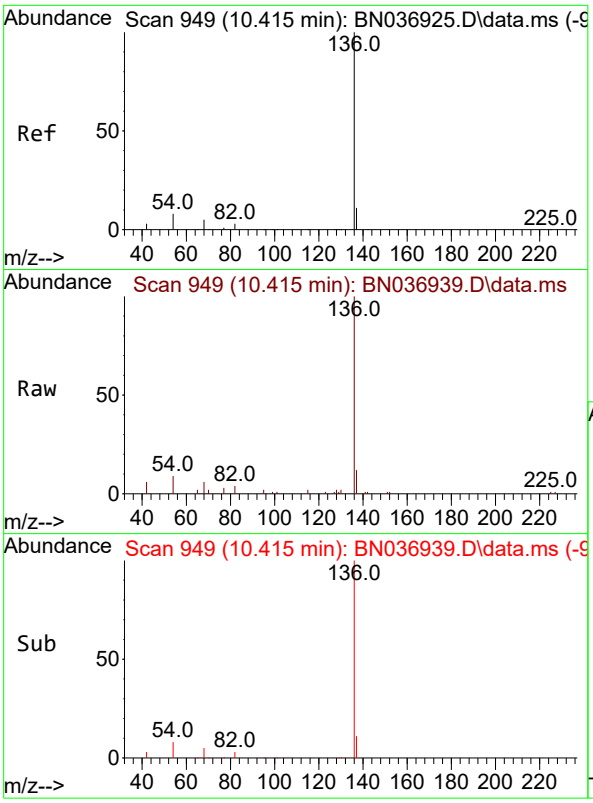


#6
bis(2-Chloroethyl)ether
Concen: 0.364 ng
RT: 7.062 min Scan# 579
Delta R.T. -0.000 min
Lab File: BN036939.D
Acq: 29 Apr 2025 14:54

Tgt Ion: 93 Resp: 2793

Ion	Ratio	Lower	Upper
93	100		
63	86.0	69.0	103.6
95	31.4	25.4	38.0

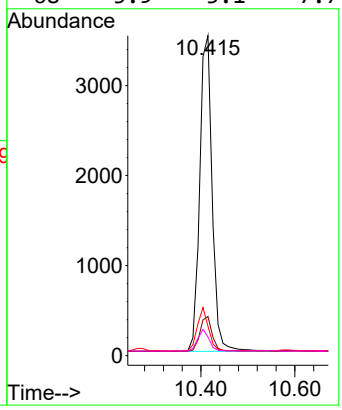




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.415 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN036939.D
Acq: 29 Apr 2025 14:54

Tgt Ion:136 Resp: 6464

Ion	Ratio	Lower	Upper
136	100		
137	12.2	9.7	14.5
54	9.2	8.0	12.0
68	5.9	5.1	7.7



Instrument :
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ClientSampleId :
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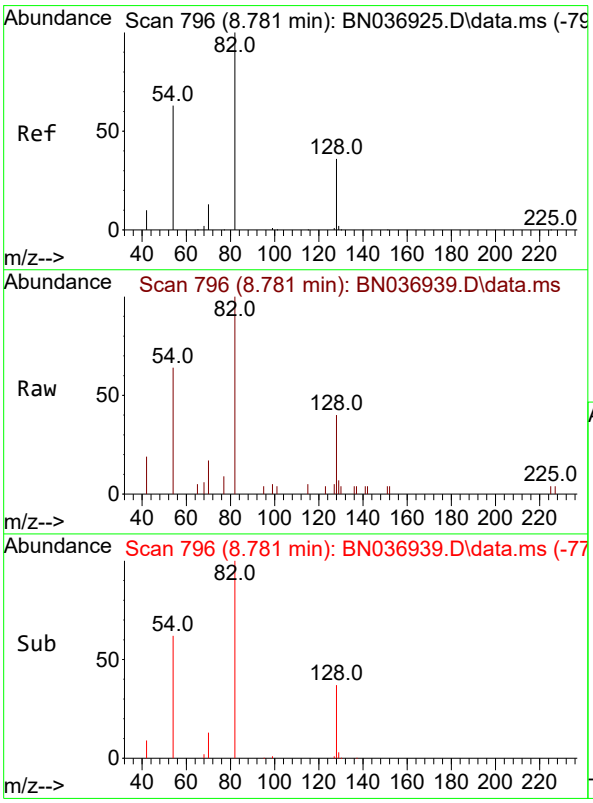
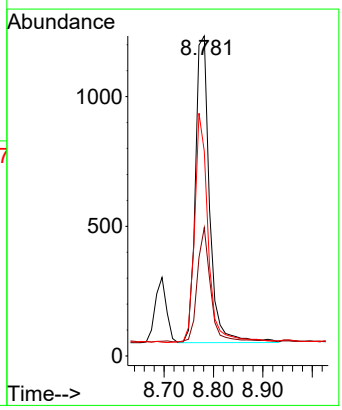
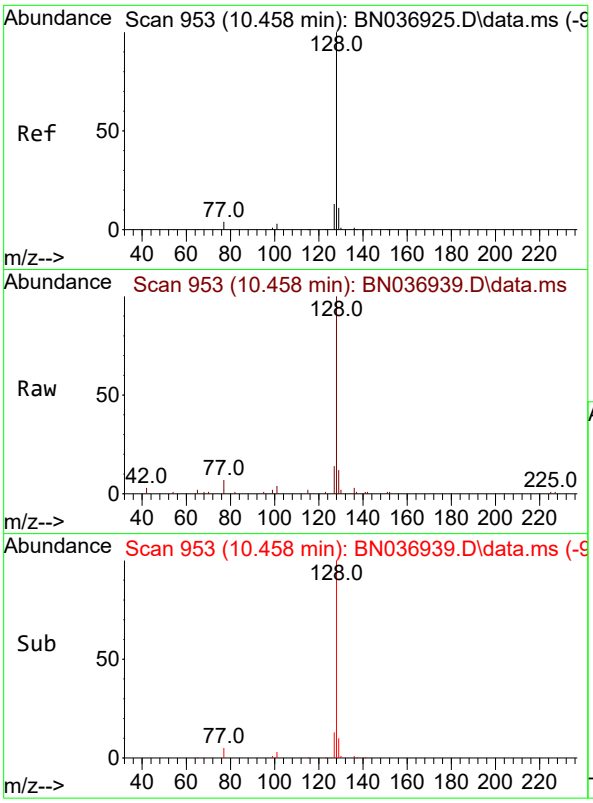


#8
Nitrobenzene-d5
Concen: 0.348 ng
RT: 8.781 min Scan# 796
Delta R.T. -0.000 min
Lab File: BN036939.D
Acq: 29 Apr 2025 14:54

Tgt Ion: 82 Resp: 2355

Ion	Ratio	Lower	Upper
82	100		
128	40.1	30.7	46.1
54	63.9	52.1	78.1

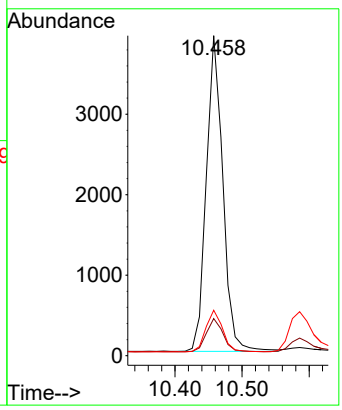




#9
Naphthalene
Concen: 0.357 ng
RT: 10.458 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN036939.D
Acq: 29 Apr 2025 14:54

Tgt Ion:128 Resp: 672

Ion	Ratio	Lower	Upper
128	100		
129	11.6	9.8	14.6
127	14.2	11.4	17.2



Instrument :
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ClientSampleId :
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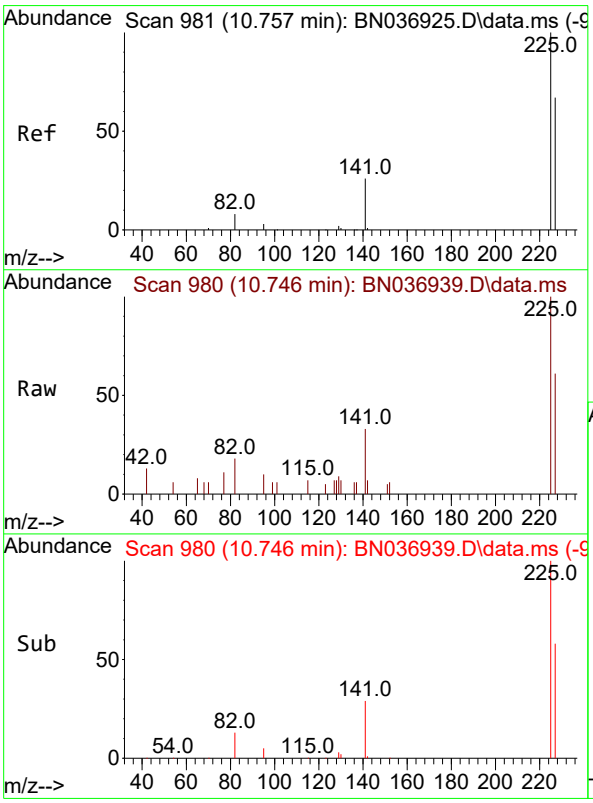
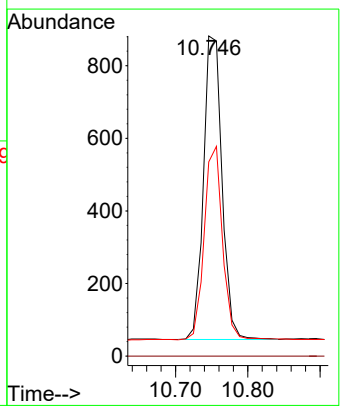
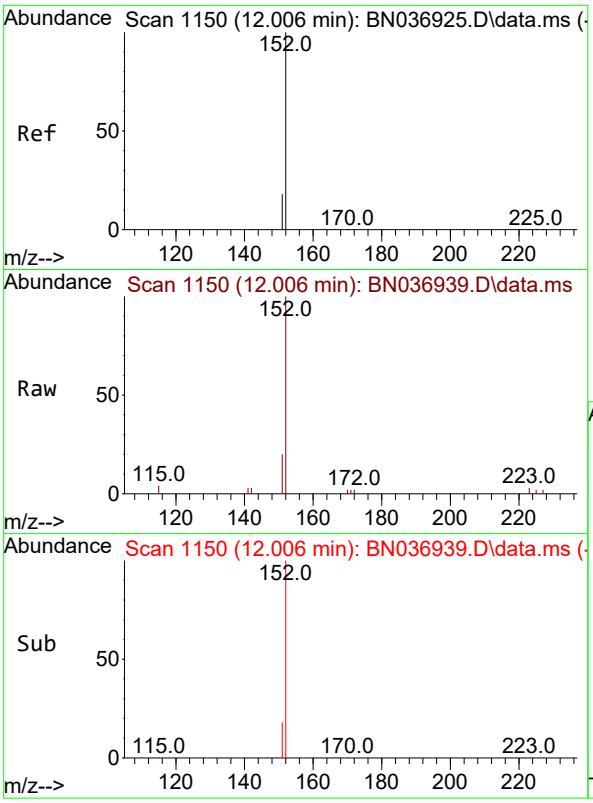


#10
Hexachlorobutadiene
Concen: 0.367 ng
RT: 10.746 min Scan# 980
Delta R.T. -0.011 min
Lab File: BN036939.D
Acq: 29 Apr 2025 14:54

Tgt Ion:225 Resp: 1495

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.3	52.2	78.4

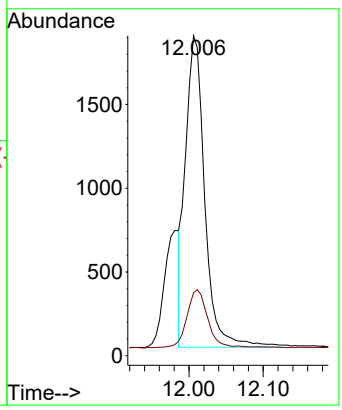




#11
2-Methylnaphthalene-d10
Concen: 0.373 ng m
RT: 12.006 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN036939.D
Acq: 29 Apr 2025 14:54

Tgt Ion:152 Resp: 337

Ion	Ratio	Lower	Upper
152	100		
151	21.0	16.9	25.3



Instrument :
BNA_N
ClientSampleId :
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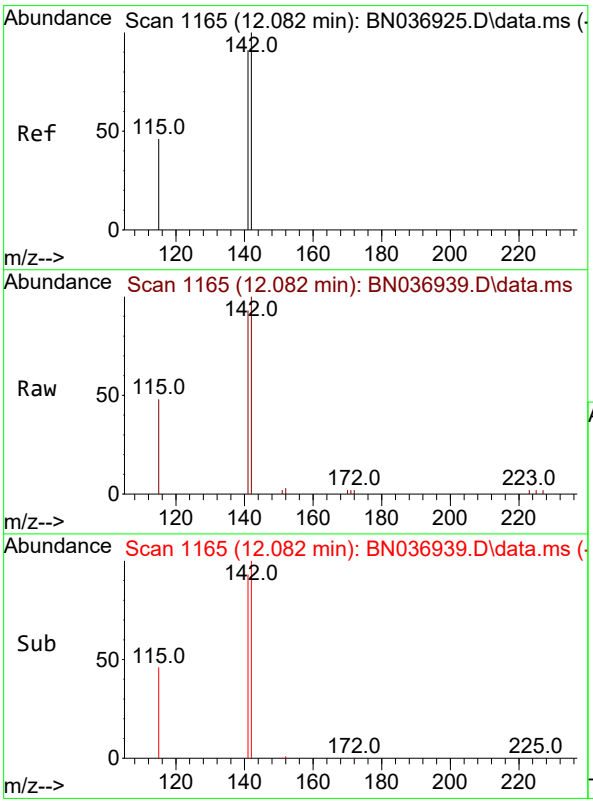
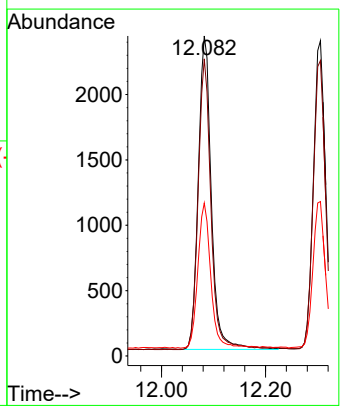
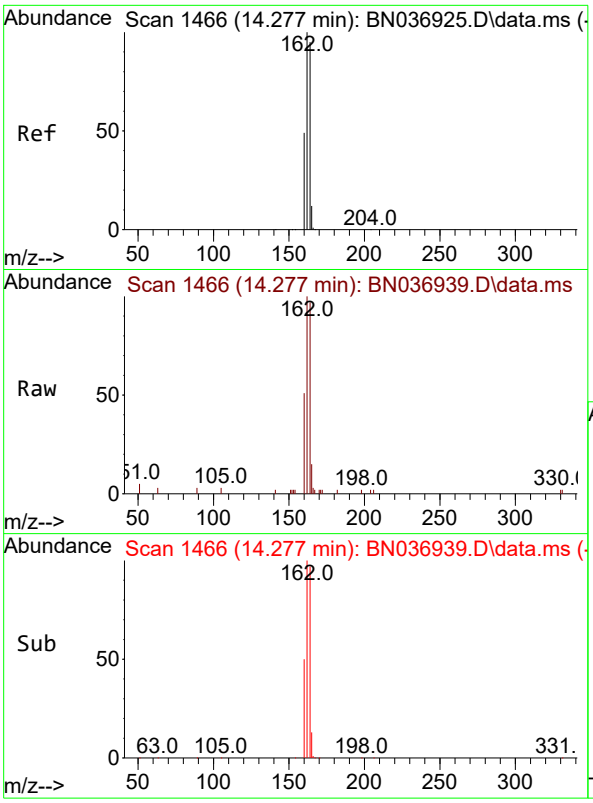


#12
2-Methylnaphthalene
Concen: 0.343 ng
RT: 12.082 min Scan# 1165
Delta R.T. -0.000 min
Lab File: BN036939.D
Acq: 29 Apr 2025 14:54

Tgt Ion:142 Resp: 4170

Ion	Ratio	Lower	Upper
142	100		
141	92.9	72.8	109.2
115	47.8	38.2	57.4





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.277 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN036939.D
Acq: 29 Apr 2025 14:54

Tgt Ion:164 Resp: 331

Ion	Ratio	Lower	Upper
164	100		
162	103.5	83.8	125.8
160	52.5	42.0	63.0

Instrument :
BNA_N
ClientSampleId :
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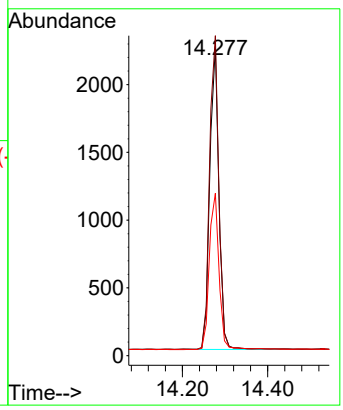
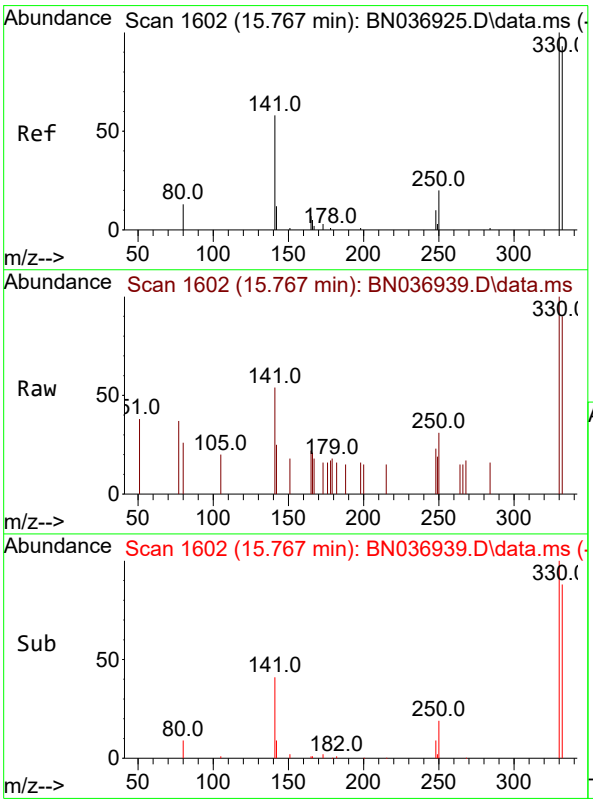
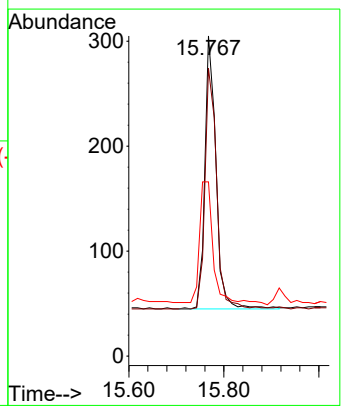


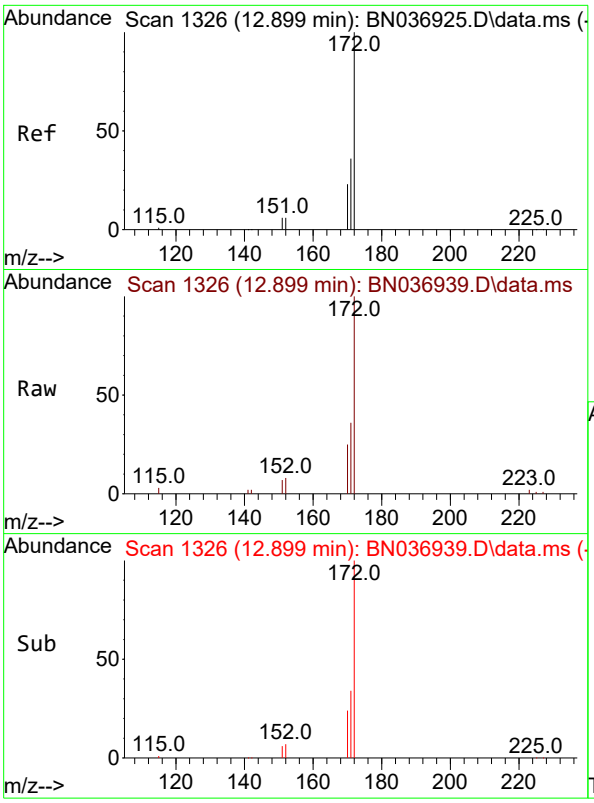


#14
2,4,6-Tribromophenol
Concen: 0.288 ng
RT: 15.767 min Scan# 1602
Delta R.T. -0.000 min
Lab File: BN036939.D
Acq: 29 Apr 2025 14:54

Tgt Ion:330 Resp: 425

Ion	Ratio	Lower	Upper
330	100		
332	92.2	76.3	114.5
141	56.7	45.4	68.2

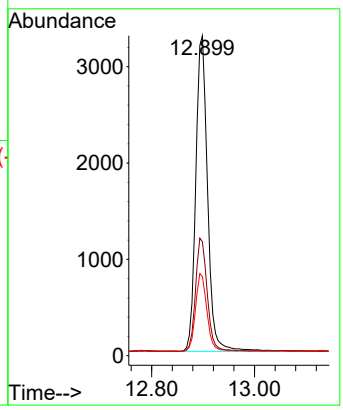




#15
2-Fluorobiphenyl
Concen: 0.367 ng
RT: 12.899 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN036939.D
Acq: 29 Apr 2025 14:54

Tgt Ion:172 Resp: 587

Ion	Ratio	Lower	Upper
172	100		
171	35.6	29.4	44.0
170	24.7	19.4	29.0



Instrument :
BNA_N
ClientSampleId :
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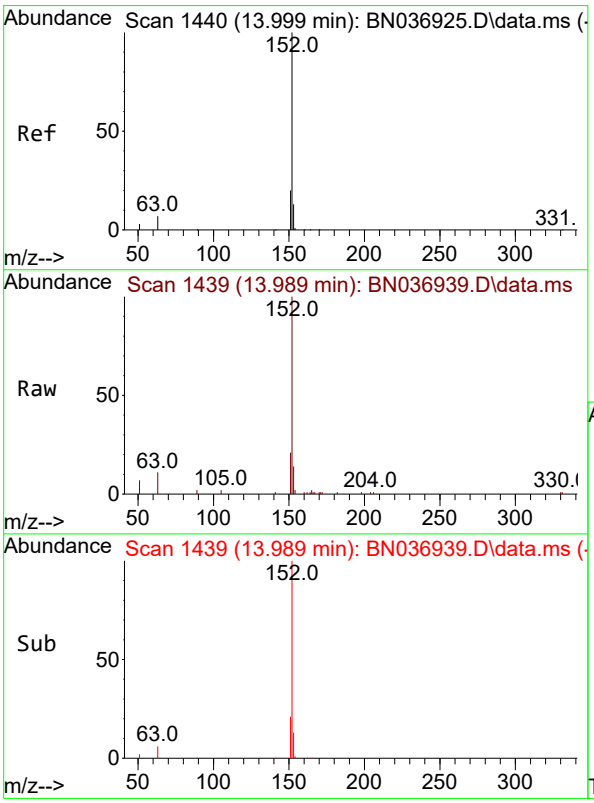
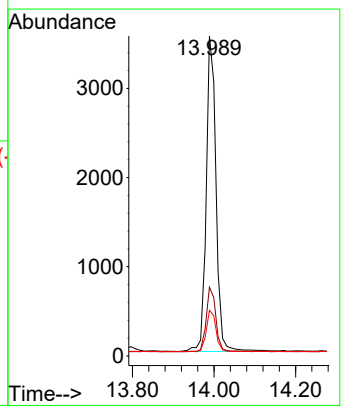
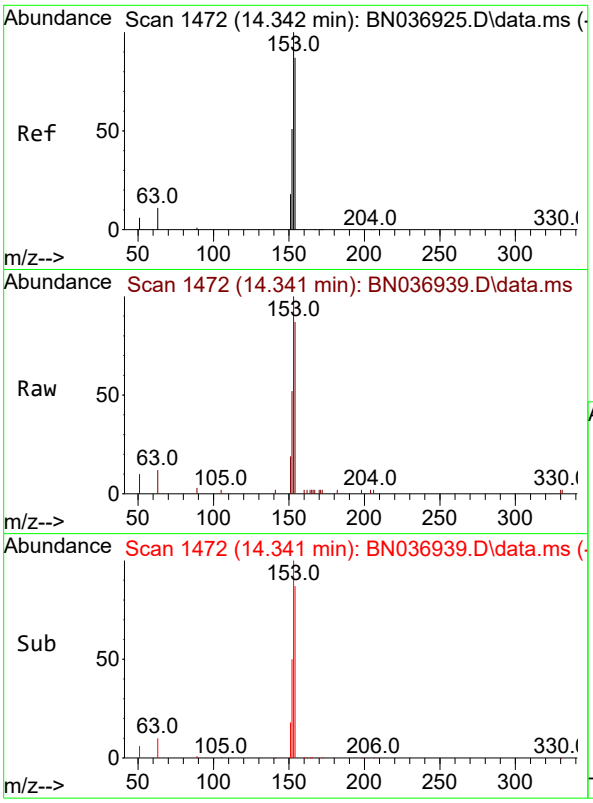


#16
Acenaphthylene
Concen: 0.366 ng
RT: 13.989 min Scan# 1439
Delta R.T. -0.011 min
Lab File: BN036939.D
Acq: 29 Apr 2025 14:54

Tgt Ion:152 Resp: 5922

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.0	24.0
153	13.1	10.2	15.2

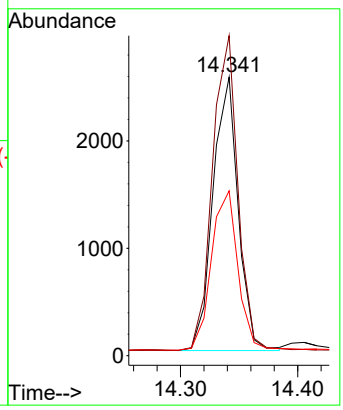




#17
Acenaphthene
Concen: 0.357 ng
RT: 14.341 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN036939.D
Acq: 29 Apr 2025 14:54

Tgt Ion:154 Resp: 3799

Ion	Ratio	Lower	Upper
154	100		
153	116.8	93.4	140.2
152	61.7	49.5	74.3



Instrument :
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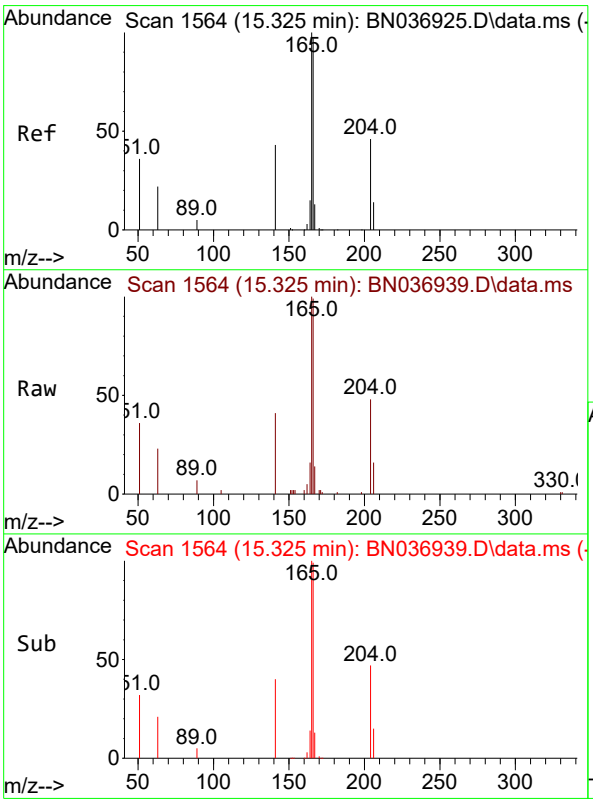
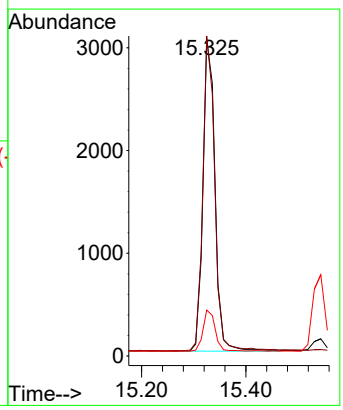
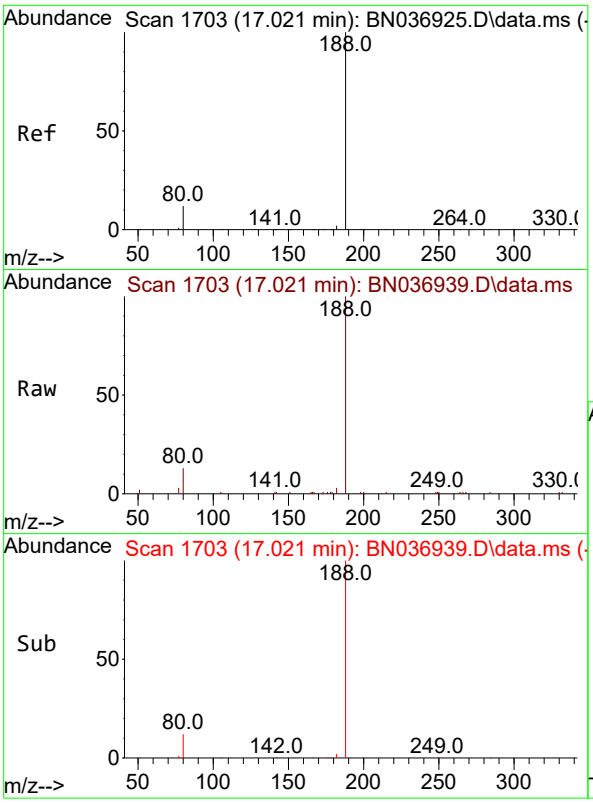


#18
Fluorene
Concen: 0.348 ng
RT: 15.325 min Scan# 1564
Delta R.T. -0.000 min
Lab File: BN036939.D
Acq: 29 Apr 2025 14:54

Tgt Ion:166 Resp: 4845

Ion	Ratio	Lower	Upper
166	100		
165	100.0	80.8	121.2
167	13.3	10.8	16.2

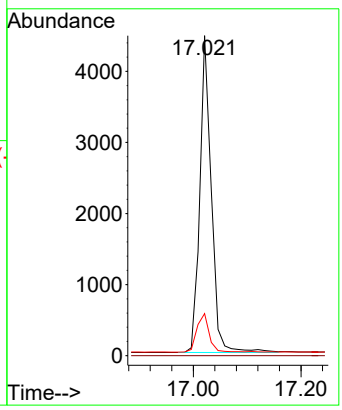




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.021 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN036939.D
Acq: 29 Apr 2025 14:54

Tgt Ion:188 Resp: 663

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	13.1	10.7	16.1



Instrument :
BNA_N
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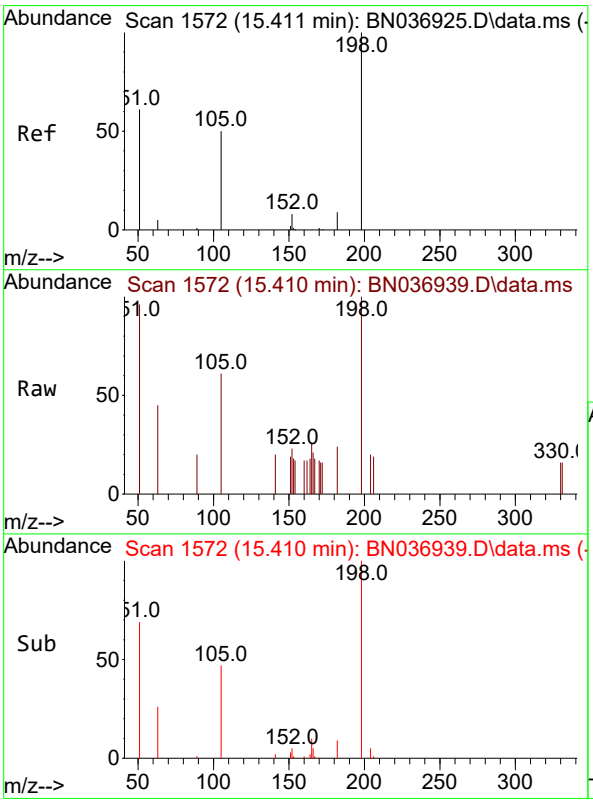
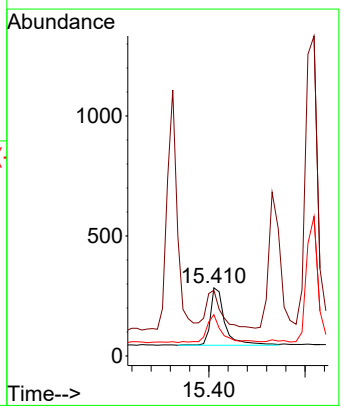
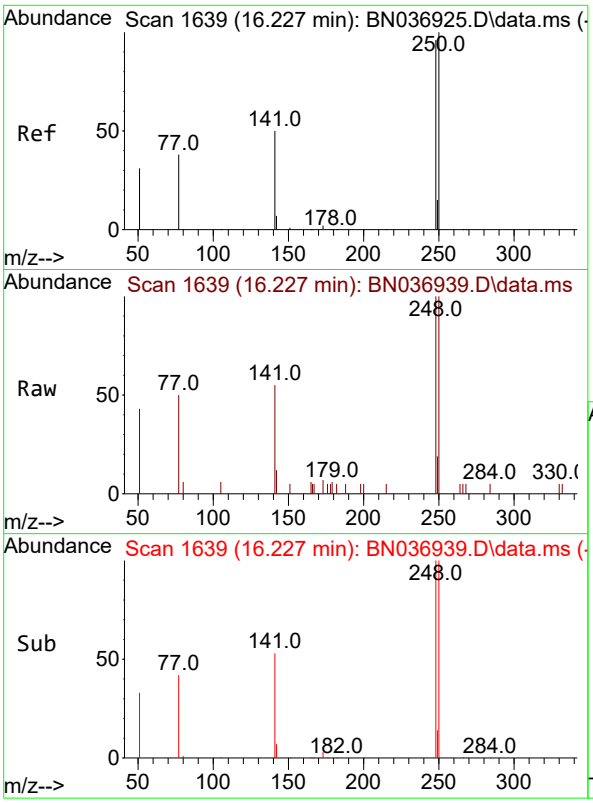


#20
4,6-Dinitro-2-methylphenol
Concen: 0.285 ng
RT: 15.410 min Scan# 1572
Delta R.T. -0.001 min
Lab File: BN036939.D
Acq: 29 Apr 2025 14:54

Tgt Ion:198 Resp: 500

Ion	Ratio	Lower	Upper
198	100		
51	96.5	97.9	146.9#
105	60.6	50.0	75.0





#21
4-Bromophenyl-phenylether
Concen: 0.328 ng
RT: 16.227 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN036939.D
Acq: 29 Apr 2025 14:54

Tgt Ion:248 Resp: 145

Ion	Ratio	Lower	Upper
248	100		
250	100.2	83.7	125.5
141	55.5	43.8	65.8

Instrument :
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ClientSampleId :
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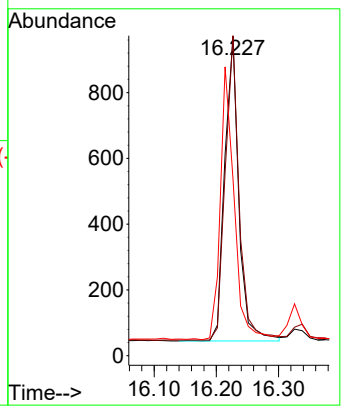
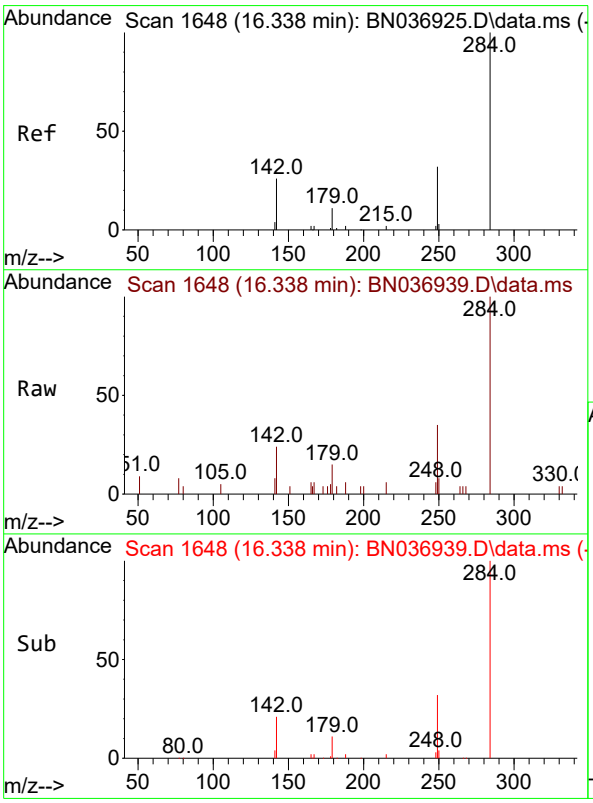
Reviewed By :Rahul Chavli 04/30/2025
Supervised By :Jagrut Upadhyay 04/30/2025

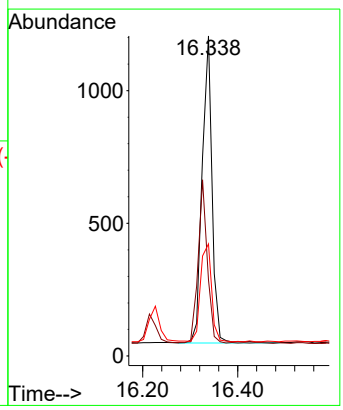


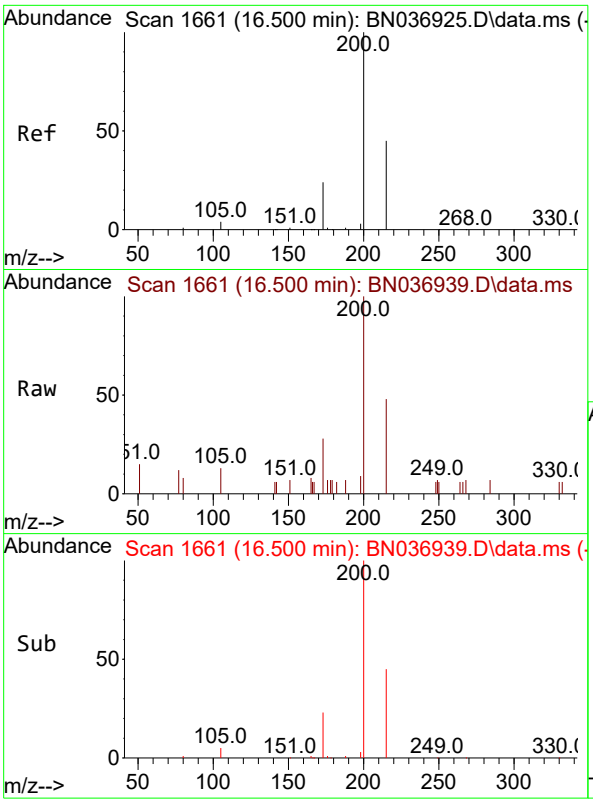


#22
Hexachlorobenzene
Concen: 0.347 ng
RT: 16.338 min Scan# 1648
Delta R.T. -0.000 min
Lab File: BN036939.D
Acq: 29 Apr 2025 14:54

Tgt Ion:284 Resp: 1684

Ion	Ratio	Lower	Upper
284	100		
142	49.5	40.0	60.0
249	35.5	28.2	42.2

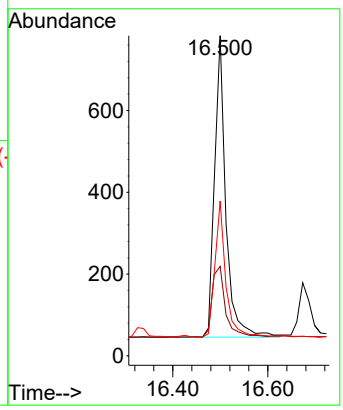




#23
Atrazine
Concen: 0.339 ng
RT: 16.500 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN036939.D
Acq: 29 Apr 2025 14:54

Tgt Ion:200 Resp: 121

Ion	Ratio	Lower	Upper
200	100		
173	28.0	22.4	33.6
215	48.4	38.6	57.8



Instrument :
BNA_N
ClientSampleId :
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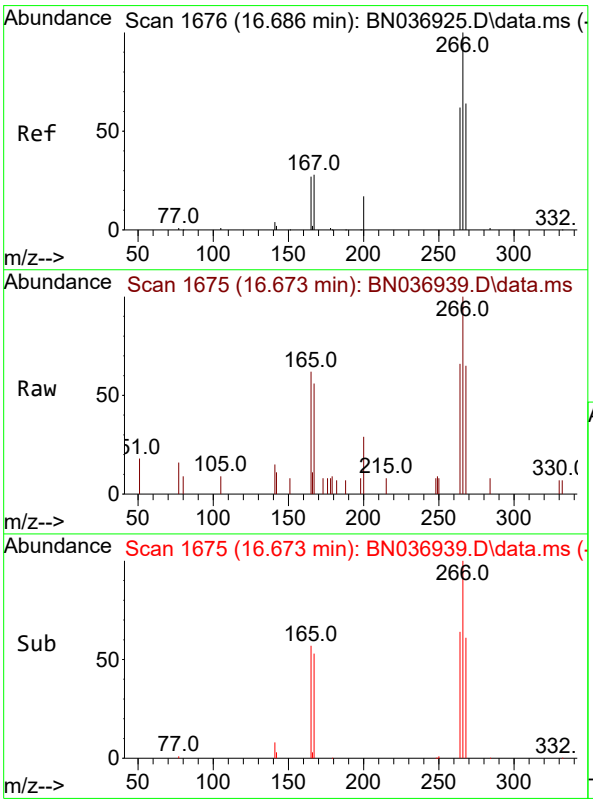
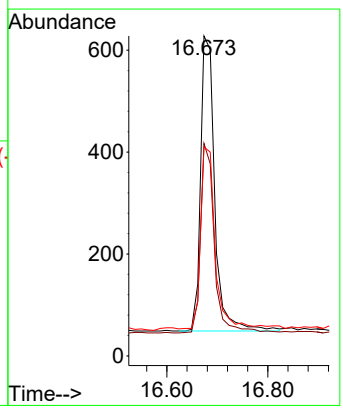
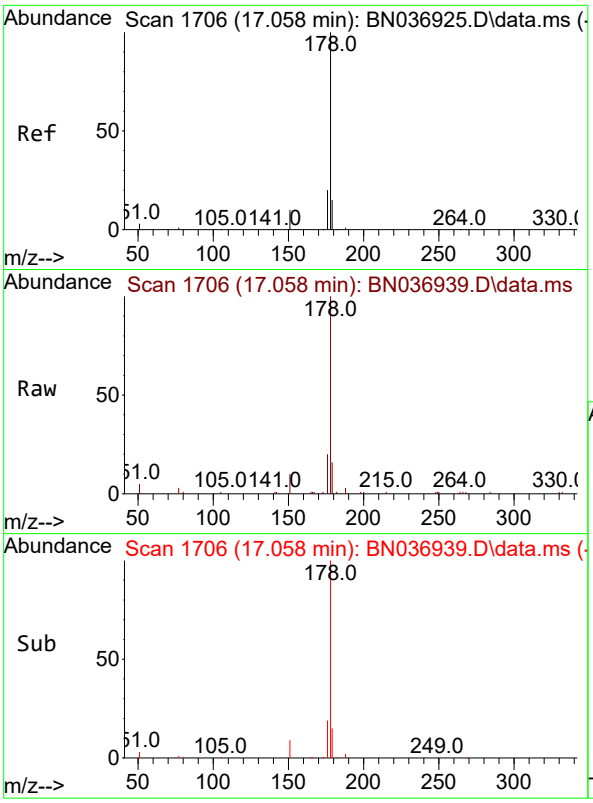


#24
Pentachlorophenol
Concen: 0.434 ng
RT: 16.673 min Scan# 1675
Delta R.T. -0.013 min
Lab File: BN036939.D
Acq: 29 Apr 2025 14:54

Tgt Ion:266 Resp: 1129

Ion	Ratio	Lower	Upper
266	100		
264	62.7	49.9	74.9
268	63.0	52.2	78.4

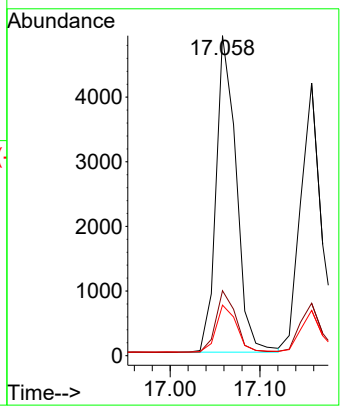




#25
Phenanthrene
Concen: 0.350 ng
RT: 17.058 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN036939.D
Acq: 29 Apr 2025 14:54

Tgt Ion:178 Resp: 765

Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.7	23.5
179	15.4	12.4	18.6



Instrument :
BNA_N
ClientSampleId :
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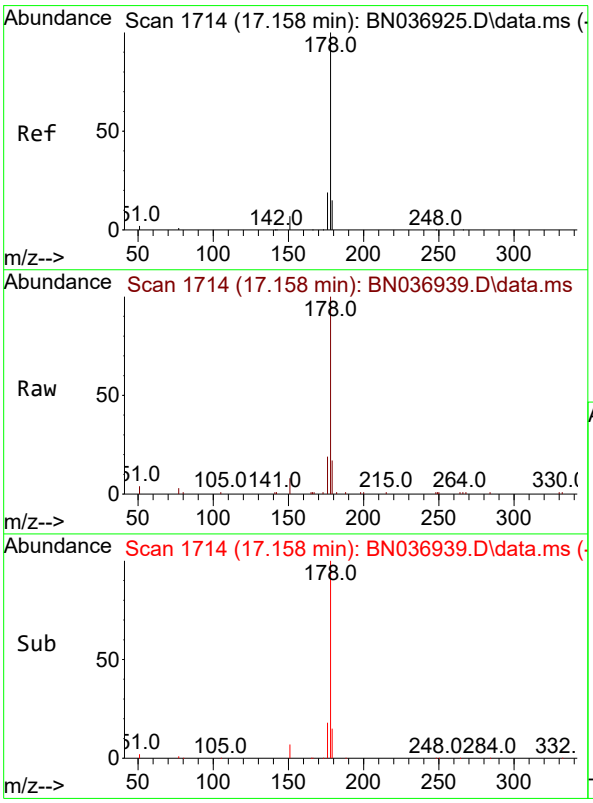
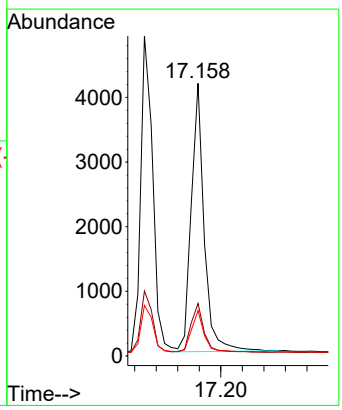
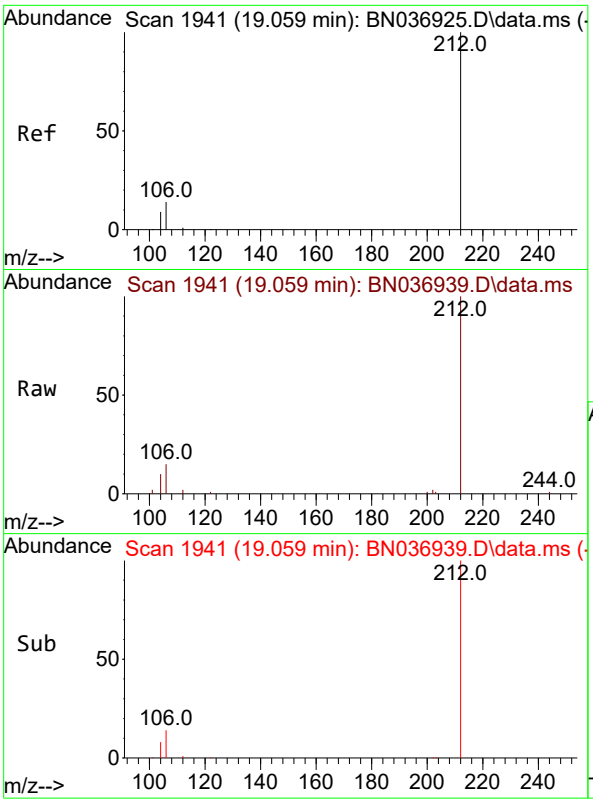


#26
Anthracene
Concen: 0.349 ng
RT: 17.158 min Scan# 1714
Delta R.T. -0.000 min
Lab File: BN036939.D
Acq: 29 Apr 2025 14:54

Tgt Ion:178 Resp: 6917

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.3	22.9
179	15.4	12.1	18.1

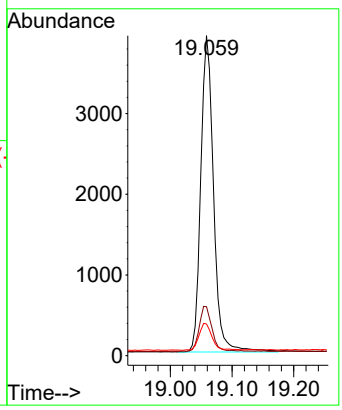




#27
Fluoranthene-d10
Concen: 0.328 ng
RT: 19.059 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN036939.D
Acq: 29 Apr 2025 14:54

Tgt Ion:212 Resp: 563

Ion	Ratio	Lower	Upper
212	100		
106	14.3	11.6	17.4
104	8.7	7.0	10.4



Instrument :
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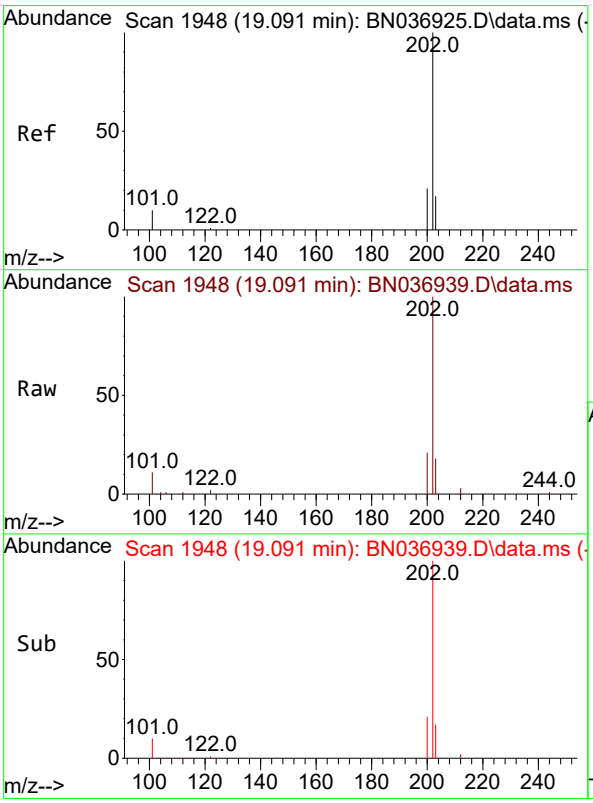
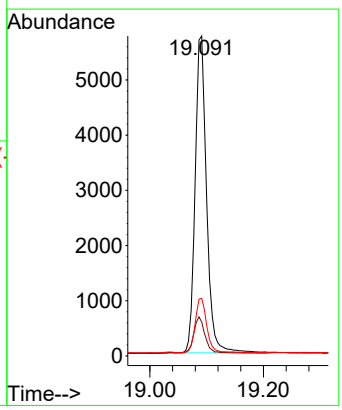
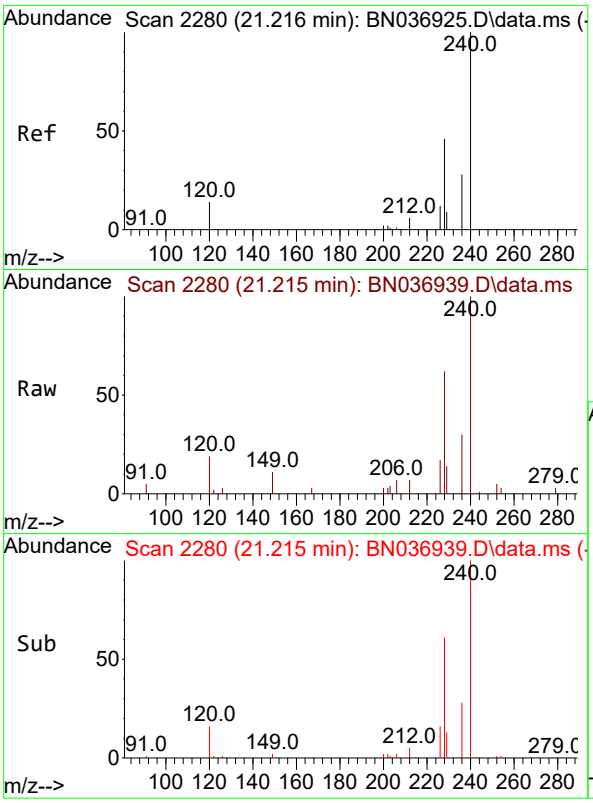


#28
Fluoranthene
Concen: 0.328 ng
RT: 19.091 min Scan# 1948
Delta R.T. -0.000 min
Lab File: BN036939.D
Acq: 29 Apr 2025 14:54

Tgt Ion:202 Resp: 8047

Ion	Ratio	Lower	Upper
202	100		
101	11.6	8.5	12.7
203	17.4	13.7	20.5

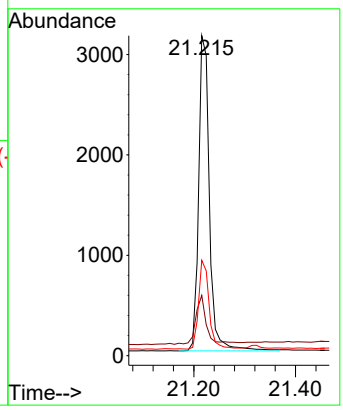




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.215 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN036939.D
Acq: 29 Apr 2025 14:54

Tgt Ion:240 Resp: 461

Ion	Ratio	Lower	Upper
240	100		
120	18.9	14.1	21.1
236	29.8	23.8	35.8



Instrument :
BNA_N
ClientSampleId :
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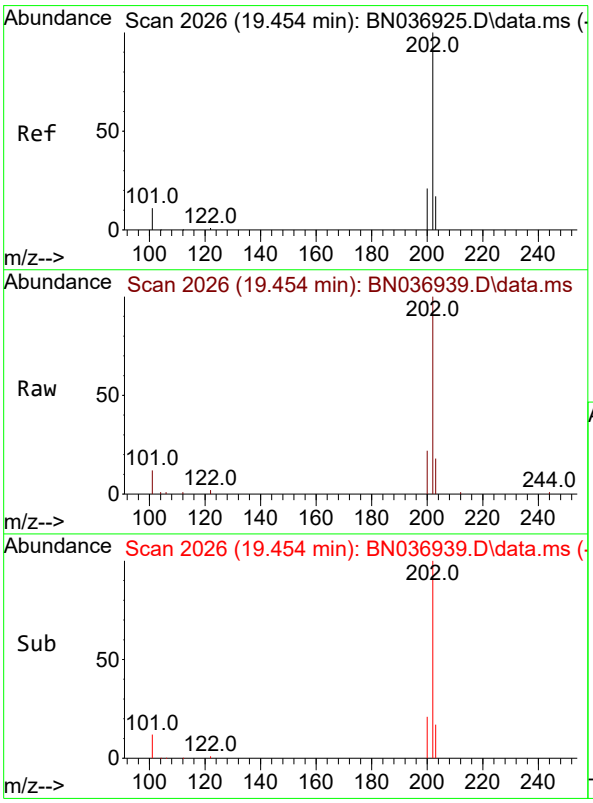
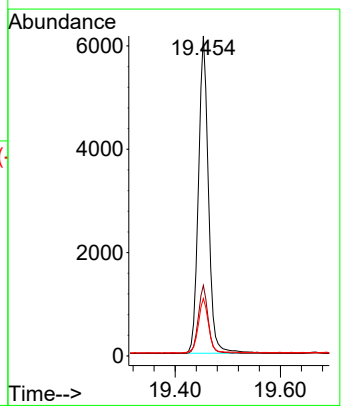
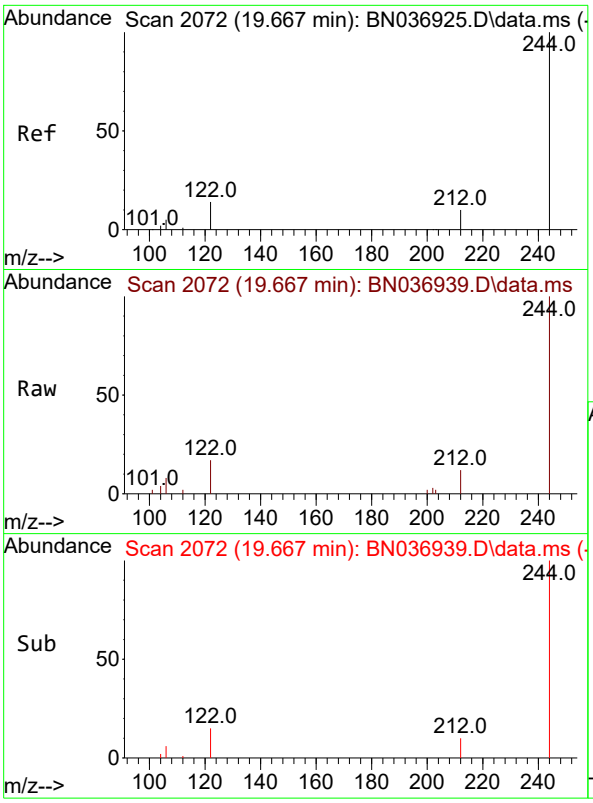


#30
Pyrene
Concen: 0.366 ng
RT: 19.454 min Scan# 2026
Delta R.T. -0.000 min
Lab File: BN036939.D
Acq: 29 Apr 2025 14:54

Tgt Ion:202 Resp: 8127

Ion	Ratio	Lower	Upper
202	100		
200	21.1	17.0	25.6
203	17.5	14.0	21.0

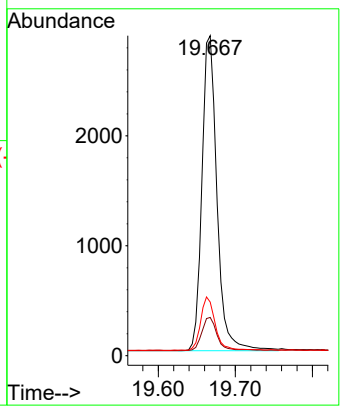




#31
Terphenyl-d14
Concen: 0.357 ng
RT: 19.667 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN036939.D
Acq: 29 Apr 2025 14:54

Tgt Ion:244 Resp: 389

Ion	Ratio	Lower	Upper
244	100		
212	12.0	9.6	14.4
122	16.8	12.7	19.1



Instrument :
BNA_N
ClientSampleId :
PB167728BS

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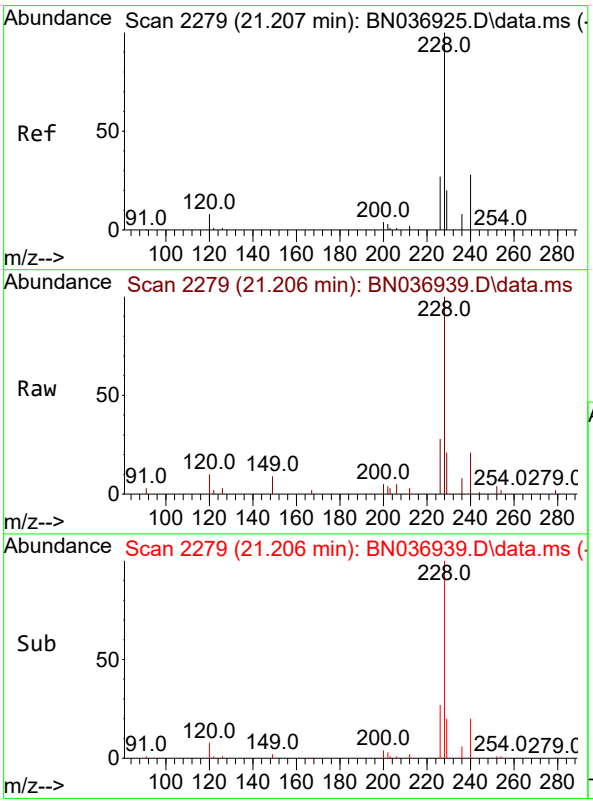
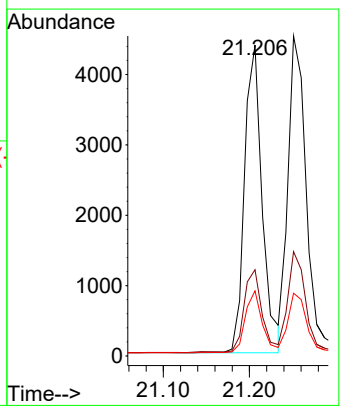
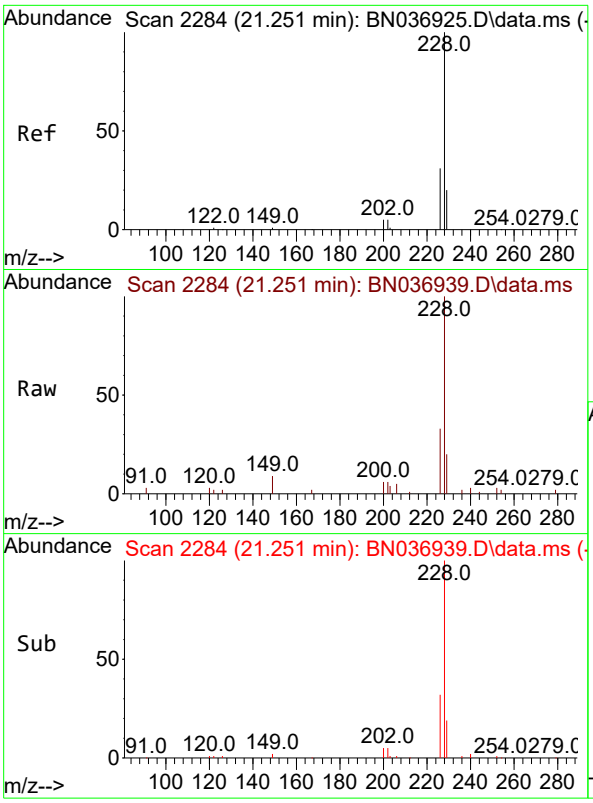


#32
Benzo(a)anthracene
Concen: 0.368 ng
RT: 21.206 min Scan# 2279
Delta R.T. -0.000 min
Lab File: BN036939.D
Acq: 29 Apr 2025 14:54

Tgt Ion:228 Resp: 6248

Ion	Ratio	Lower	Upper
228	100		
226	27.7	22.2	33.4
229	21.0	16.4	24.6

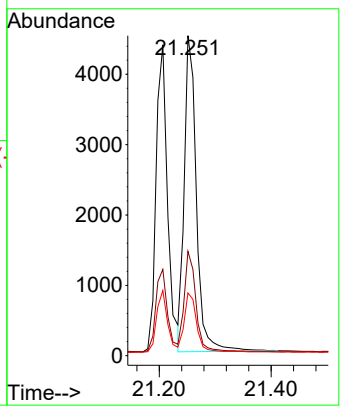




#33
Chrysene
Concen: 0.370 ng
RT: 21.251 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN036939.D
Acq: 29 Apr 2025 14:54

Tgt Ion:228 Resp: 678

Ion	Ratio	Lower	Upper
228	100		
226	32.6	25.5	38.3
229	19.6	16.5	24.7



Instrument :
BNA_N
ClientSampleId :
PB167728BS

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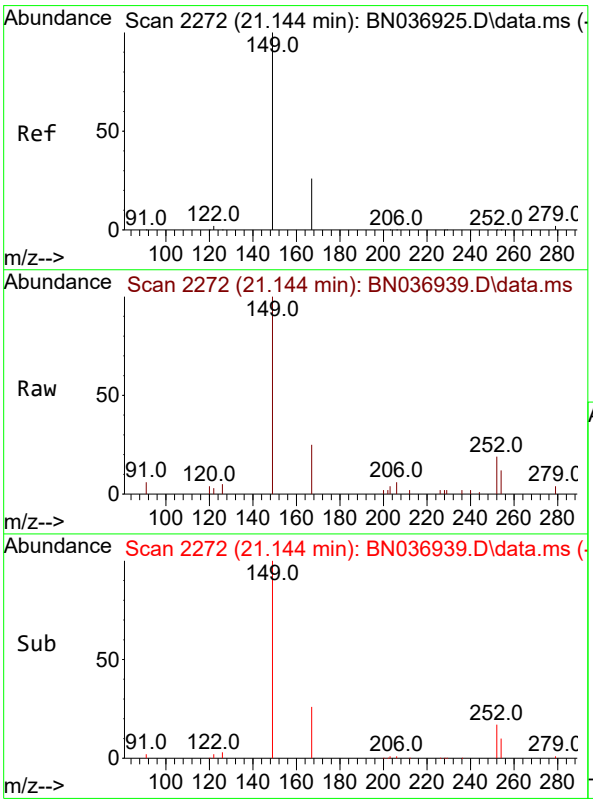
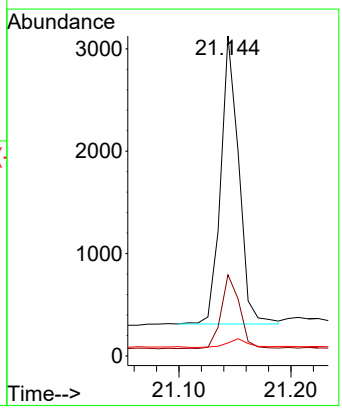
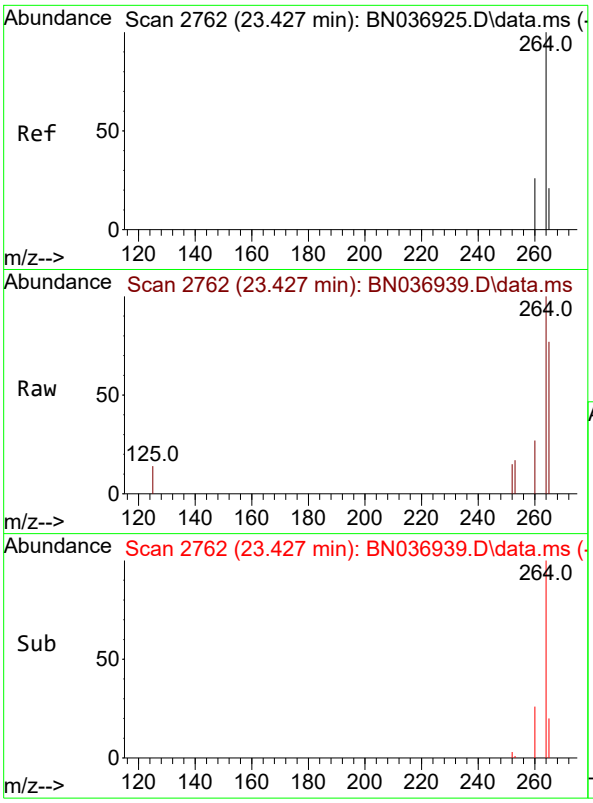


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.325 ng
RT: 21.144 min Scan# 2272
Delta R.T. -0.000 min
Lab File: BN036939.D
Acq: 29 Apr 2025 14:54

Tgt Ion:149 Resp: 3141

Ion	Ratio	Lower	Upper
149	100		
167	26.2	21.0	31.6
279	3.4	2.7	4.1

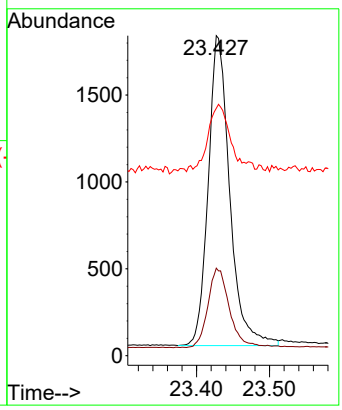




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.427 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN036939.D
Acq: 29 Apr 2025 14:54

Tgt Ion:264 Resp: 364

Ion	Ratio	Lower	Upper
264	100		
260	27.4	22.2	33.2
265	77.3	65.8	98.6



Instrument :
BNA_N
ClientSampleId :
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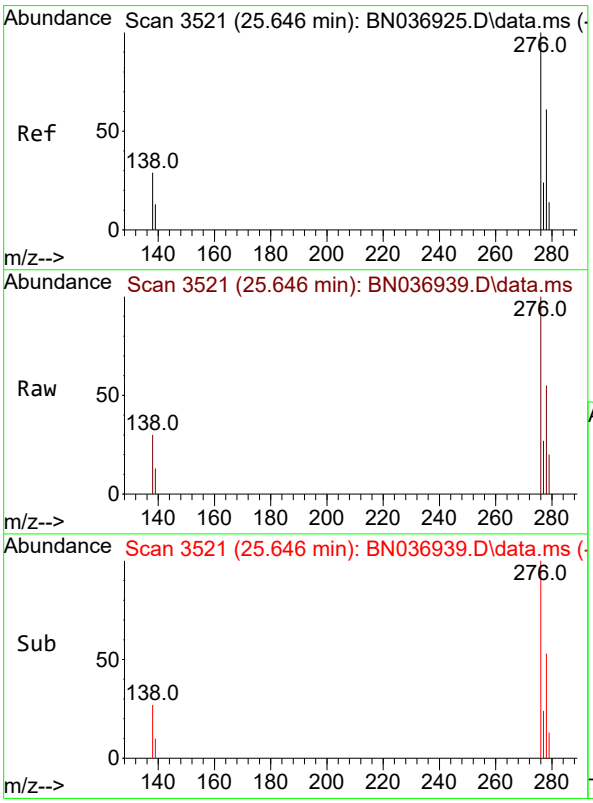
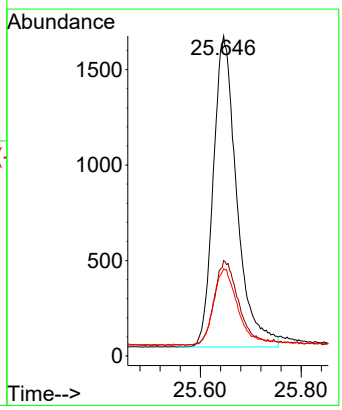
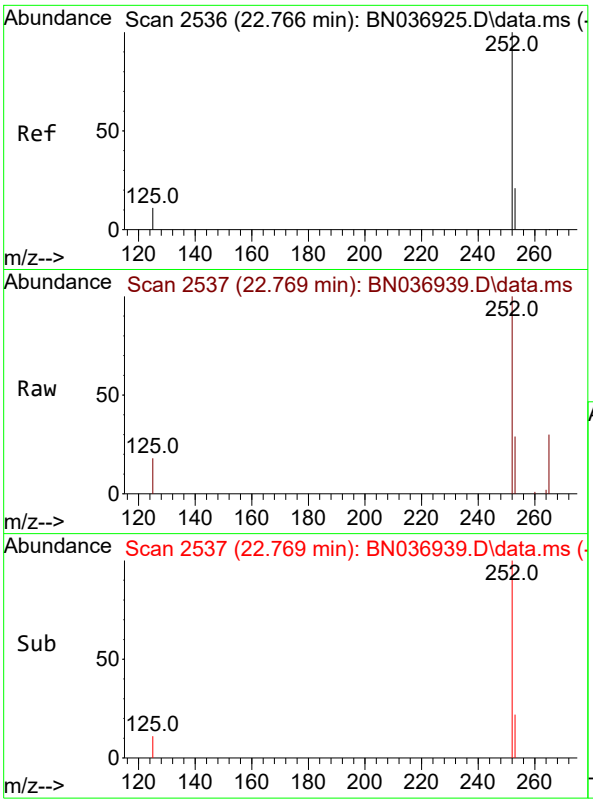


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.354 ng
RT: 25.646 min Scan# 3521
Delta R.T. -0.000 min
Lab File: BN036939.D
Acq: 29 Apr 2025 14:54

Tgt Ion:276 Resp: 5275

Ion	Ratio	Lower	Upper
276	100		
138	27.6	23.0	34.6
277	25.5	20.0	30.0

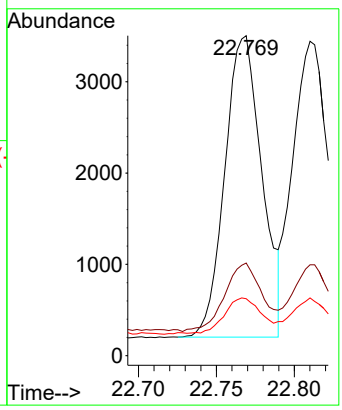




#37
Benzo(b)fluoranthene
Concen: 0.356 ng
RT: 22.769 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN036939.D
Acq: 29 Apr 2025 14:54

Tgt Ion:252 Resp: 546

Ion	Ratio	Lower	Upper
252	100		
253	29.0	22.1	33.1
125	17.8	14.2	21.2



Instrument :
BNA_N
ClientSampleId :
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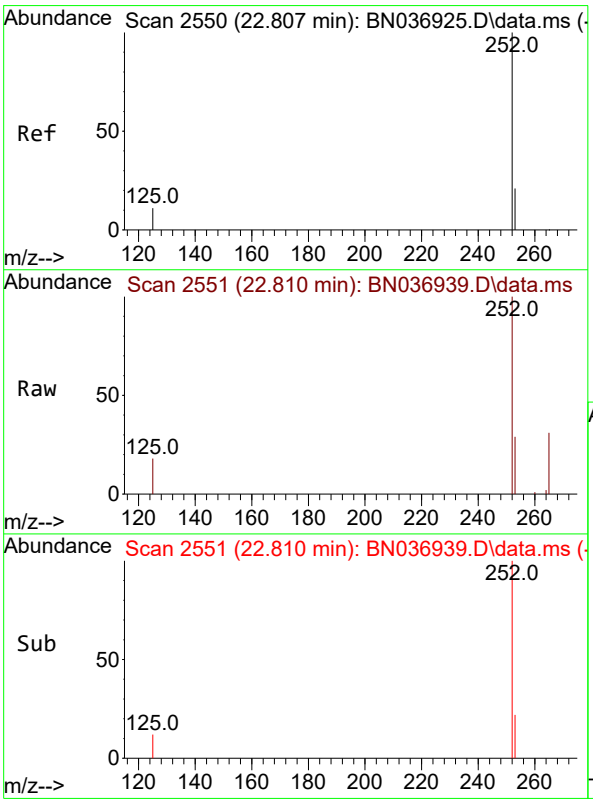
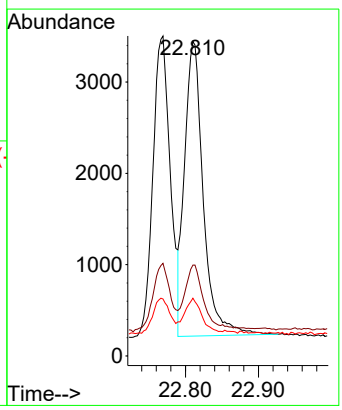
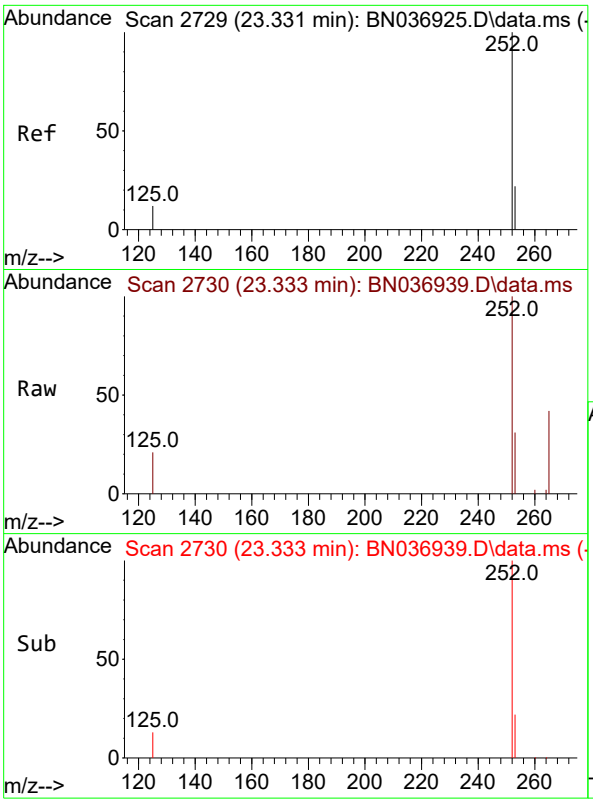


#38
Benzo(k)fluoranthene
Concen: 0.373 ng
RT: 22.810 min Scan# 2551
Delta R.T. 0.003 min
Lab File: BN036939.D
Acq: 29 Apr 2025 14:54

Tgt Ion:252 Resp: 5750

Ion	Ratio	Lower	Upper
252	100		
253	28.9	22.8	34.2
125	18.4	14.2	21.2

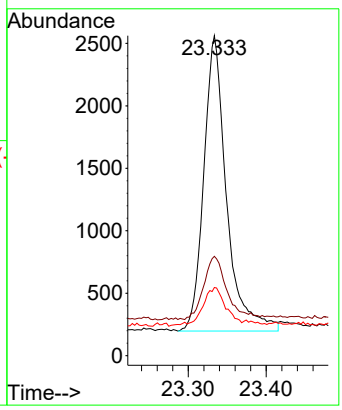




#39
Benzo(a)pyrene
Concen: 0.380 ng
RT: 23.333 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN036939.D
Acq: 29 Apr 2025 14:54

Tgt Ion:252 Resp: 478

Ion	Ratio	Lower	Upper
252	100		
253	31.1	25.9	38.9
125	21.3	17.4	26.0



Instrument :
BNA_N
ClientSampleId :
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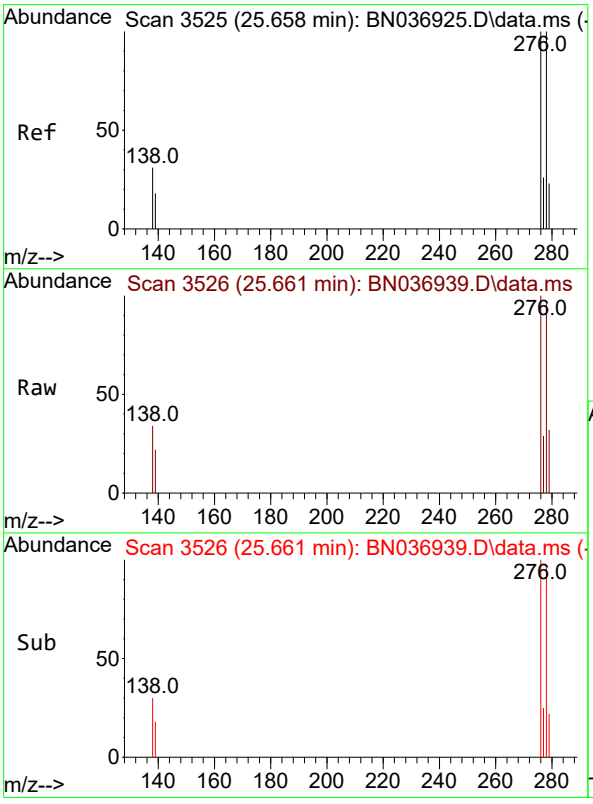
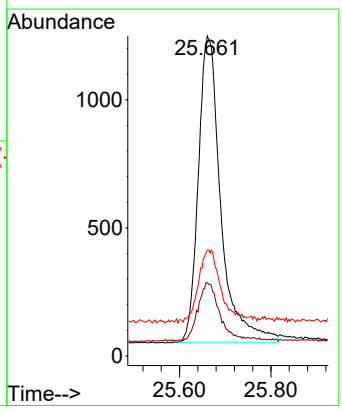
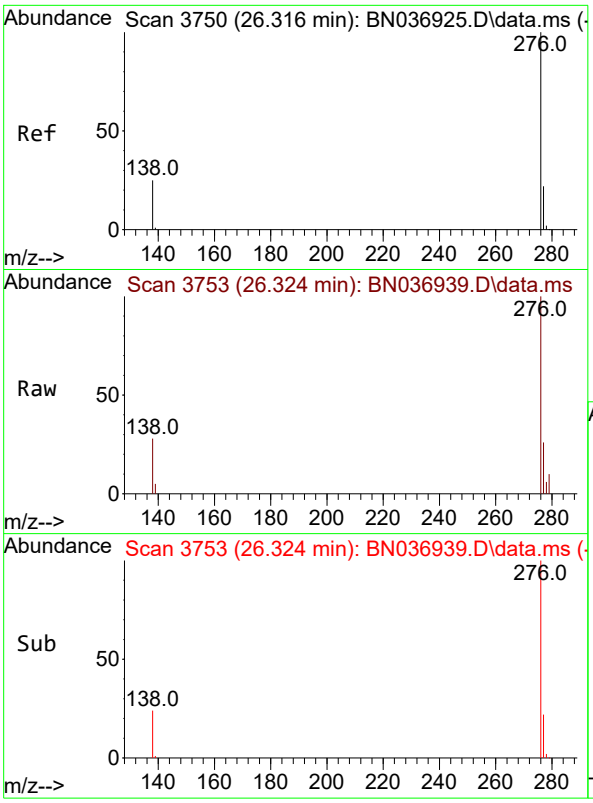


#40
Dibenzo(a,h)anthracene
Concen: 0.348 ng
RT: 25.661 min Scan# 3526
Delta R.T. 0.003 min
Lab File: BN036939.D
Acq: 29 Apr 2025 14:54

Tgt Ion:278 Resp: 4085

Ion	Ratio	Lower	Upper
278	100		
139	22.9	17.4	26.2
279	33.1	24.9	37.3

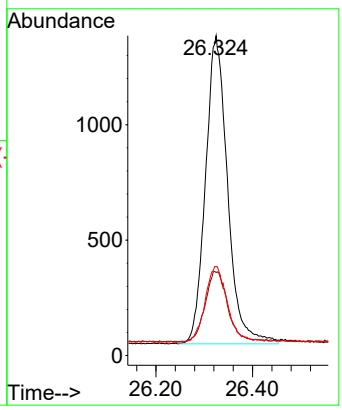




#41
Benzo(g,h,i)perylene
Concen: 0.326 ng
RT: 26.324 min Scan# 3
Delta R.T. 0.009 min
Lab File: BN036939.D
Acq: 29 Apr 2025 14:54

Tgt Ion:276 Resp: 424

Ion	Ratio	Lower	Upper
276	100		
277	26.0	20.2	30.2
138	27.8	21.9	32.9



Instrument :
BNA_N
ClientSampleId :
PB167728BS

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 04/30/2025
Supervised By :Jagrut Upadhyay 04/30/2025

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

Manual Integration Report

Sequence:	BN042825	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC0.1	BN036923.D	1,4-Dioxane	Rahul	4/29/2025 8:53:49 AM	Jagrut	4/29/2025 11:57:36 AM	Peak Integrated by Software
SSTDICC0.2	BN036924.D	1,4-Dioxane	Rahul	4/29/2025 8:53:52 AM	Jagrut	4/29/2025 11:57:39 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	BN042925	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PB167728BS	BN036939.D	2-Methylnaphthalene-d10	Rahul	4/30/2025 11:37:30 AM	Jagrut	4/30/2025 12:40:19 PM	Peak Integrated by Software

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN042825

Review By	Rahul	Review On	4/29/2025 8:54:47 AM		
Supervise By	Jagrut	Supervise On	4/29/2025 11:57:54 AM		
SubDirectory	BN042825	HP Acquire Method	BNA_N, 8270_SIM	HP Processing Method	BN042825

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	SP6768
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN036922.D	28 Apr 2025 10:56	RC/JU	Ok
2	SSTDICC0.1	BN036923.D	28 Apr 2025 11:35	RC/JU	Ok,M
3	SSTDICC0.2	BN036924.D	28 Apr 2025 12:11	RC/JU	Ok,M
4	SSTDICCC0.4	BN036925.D	28 Apr 2025 12:47	RC/JU	Ok
5	SSTDICC0.8	BN036926.D	28 Apr 2025 13:24	RC/JU	Ok
6	SSTDICC1.6	BN036927.D	28 Apr 2025 14:00	RC/JU	Ok
7	SSTDICC3.2	BN036928.D	28 Apr 2025 14:36	RC/JU	Ok
8	SSTDICC5.0	BN036929.D	28 Apr 2025 15:12	RC/JU	Ok
9	SSTDICV0.4	BN036930.D	28 Apr 2025 15:51	RC/JU	Ok
10	PB167430BL	BN036931.D	28 Apr 2025 17:39	RC/JU	Not Ok

M : Manual Integration

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN042925

Review By	Rahul	Review On	4/30/2025 11:39:11 AM		
Supervise By	Jagrut	Supervise On	5/7/2025 1:59:53 PM		
SubDirectory	BN042925	HP Acquire Method	BNA_N, 8270_SIM	HP Processing Method	BN042825

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	SP6768
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN036932.D	29 Apr 2025 08:38	RC/JU	Ok
2	SSTDCCC0.4	BN036933.D	29 Apr 2025 09:17	RC/JU	Ok
3	PB167728BL	BN036934.D	29 Apr 2025 09:53	RC/JU	Ok
4	Q1502-21DL	BN036935.D	29 Apr 2025 10:46	RC/JU	Ok
5	Q1870-01	BN036936.D	29 Apr 2025 13:05	RC/JU	Dilution
6	Q1870-01DL	BN036937.D	29 Apr 2025 13:41	RC/JU	Dilution
7	Q1870-01DL2	BN036938.D	29 Apr 2025 14:17	RC/JU	Ok
8	PB167728BS	BN036939.D	29 Apr 2025 14:54	RC/JU	Ok,M

M : Manual Integration

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Fax : 908 789 8922

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN042825

Review By	Rahul	Review On	4/29/2025 8:54:47 AM	
Supervise By	Jagrut	Supervise On	4/29/2025 11:57:54 AM	
SubDirectory	BN042825	HP Acquire Method	BNA_N, 8270_HP Processing Method	BN042825

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	SP6768
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN036922.D	28 Apr 2025 10:56		RC/JU	Ok
2	SSTDICC0.1	SSTDICC0.1	BN036923.D	28 Apr 2025 11:35	Compound#20 removed from 0.1 ppm	RC/JU	Ok,M
3	SSTDICC0.2	SSTDICC0.2	BN036924.D	28 Apr 2025 12:11		RC/JU	Ok,M
4	SSTDICCC0.4	SSTDICCC0.4	BN036925.D	28 Apr 2025 12:47		RC/JU	Ok
5	SSTDICC0.8	SSTDICC0.8	BN036926.D	28 Apr 2025 13:24		RC/JU	Ok
6	SSTDICC1.6	SSTDICC1.6	BN036927.D	28 Apr 2025 14:00		RC/JU	Ok
7	SSTDICC3.2	SSTDICC3.2	BN036928.D	28 Apr 2025 14:36		RC/JU	Ok
8	SSTDICC5.0	SSTDICC5.0	BN036929.D	28 Apr 2025 15:12		RC/JU	Ok
9	SSTDICV0.4	ICVBN042825	BN036930.D	28 Apr 2025 15:51		RC/JU	Ok
10	PB167430BL	PB167430BL	BN036931.D	28 Apr 2025 17:39	Internal Standard Fail, Analyzed for contamination check	RC/JU	Not Ok

M : Manual Integration

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN042925

Review By	Rahul	Review On	4/30/2025 11:39:11 AM	
Supervise By	Jagrut	Supervise On	5/7/2025 1:59:53 PM	
SubDirectory	BN042925	HP Acquire Method	BNA_N, 8270_HP Processing Method	BN042825

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	SP6768
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN036932.D	29 Apr 2025 08:38		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN036933.D	29 Apr 2025 09:17		RC/JU	Ok
3	PB167728BL	PB167728BL	BN036934.D	29 Apr 2025 09:53		RC/JU	Ok
4	Q1502-21DL	RR-PAH-WPDL	BN036935.D	29 Apr 2025 10:46		RC/JU	Ok
5	Q1870-01	38072-010925	BN036936.D	29 Apr 2025 13:05	PT Sample, Need 50X Dilution	RC/JU	Dilution
6	Q1870-01DL	38072-010925DL	BN036937.D	29 Apr 2025 13:41	Need 500X dilution	RC/JU	Dilution
7	Q1870-01DL2	38072-010925DL2	BN036938.D	29 Apr 2025 14:17		RC/JU	Ok
8	PB167728BS	PB167728BS	BN036939.D	29 Apr 2025 14:54		RC/JU	Ok,M

M : Manual Integration

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB167728

SOP ID:	M3510C,3580A-Extraction SVOC-20				
Clean Up SOP #:	N/A			**Extraction Start Date :**	04/24/2025
Matrix :	Water			**Extraction Start Time :**	12:05
Weigh By:	N/A	**Extraction By:**	RS	**Extraction End Date :**	04/24/2025
Balance check:	N/A	**Filter By:**	RJ	**Extraction End Time :**	17:00
Balance ID:	N/A	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	E3880	**Hood ID:**	4,6,7	**Supervisor By :**	RUPESH

Extraction Method: [√] Seperatory Funnel [ ] Continious Liquid/Liquid [ ] Sonication [ ] Waste Dilution [ ] Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	0.4 PPM	SP6739
Surrogate	1.0ML	0.4 PPM	SP6758
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Methylene Chloride	N/A	E3926
Baked Na2SO4	N/A	EP2604
10N NaoH	N/A	EP2559
H2SO4 1:1	N/A	EP2565
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial lot# 2210673. pH Adjusted<2 with 1:1 H2SO4 &>11 with 10 N NaOH.

KD Bath ID:	WATER BATH-1	**Envap ID:**	NEVAP-02
KD Bath Temperature:	60 °C	**Envap Temperature:**	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
4/24/25	RS (Ext lab)	JH / SVOC
17:05	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB167728

Analytical Method: M3510C,3580A-Extraction SVOC-20 **Concentration Date:** 04/24/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB167728BL	SBLK728	SVOCMS Group5	1000	6	RUPESH	ritesh	1			SEP-1
PB167728BS	SLCS728	SVOCMS Group5	1000	6	RUPESH	ritesh	1			2
Q1870-01	38072-010925	SVOCMS Group5	1000	6	RUPESH	ritesh	1			3

RS 4/24

* **Extracts relinquished on the same date as received.**

1677-08 12:15 MW

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1870 **WorkList ID :** 189128 **Department :** Extraction **Date :** 04-24-2025 12:02:25

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1870-01	38072-010925	Water	SVOCMS Group5	Cool 4 deg C	ALLI03	QA Of	04/21/2025	8270-Modified
Q1870-03	38073-100124	Water	SVOCMS Group2	Cool 4 deg C	ALLI03	QA Of	04/22/2025	8270E

Date/Time 4/24/25 12:03
Raw Sample Received by: RS (Ext Lab)
Raw Sample Relinquished by: SJ (QAO)

Date/Time NA
Raw Sample Received by: N/A
Raw Sample Relinquished by: N/A

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Prep Standard - Chemical Standard Summary

Order ID : Q1870

Test : SVOCMS Group5

Prepbatch ID : PB167728,

Sequence ID/Qc Batch ID: BN042925,

Standard ID :
EP2559,EP2565,EP2604,SP6682,SP6730,SP6731,SP6732,SP6733,SP6734,SP6735,SP6736,SP6738,SP6739,SP6740,SP6757,SP6758,SP6767,SP6768,

Chemical ID :
1ul/100ul sample,E3551,E3657,E3828,E3873,E3874,E3904,E3915,E3926,M5173,S10104,S11495,S11650,S11785,S11788,S11832,S12114,S12195,S12216,S12270,S12328,S12478,S12486,S12525,S12533,S12577,S12651,S12791,S12966,S12974,W3112,

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Extractions STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1874	10 N SODIUM HYDROXIDE SOLN	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	EP2604	04/16/2025	07/01/2025	RUPESHKUMAR SHAH	Extraction_SCALE_2 (EX-SC-2)	None	Riteshkumar Patel 04/16/2025

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
3339	8270 sim calibration stock 10ppm (CPI)	SP6730	02/04/2025	05/12/2025	Jagrut Upadhyay	None	None	Shreena 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

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	Shreena Patel 02/07/2025

FROM 0.50000ml of E3874 + 0.01000ml of SP6682 + 0.50000ml 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
3341	8270-SIM MDL-3.2PPM CALIBRATION SOLUTION	SP6732	02/04/2025	05/09/2025	Jagrut Upadhyay	None	None	Shreena Patel 02/07/2025

FROM 0.68000ml of E3874 + 0.01000ml of SP6682 + 0.32000ml of SP6730 = Final Quantity: 1.010 ml

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	Shreena Patel 02/07/2025

FROM 0.84000ml of E3874 + 0.01000ml of SP6682 + 0.16000ml 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
3342	8270-SIM MDL-0.8PPM CALIBRATION SOLUTION	SP6734	02/04/2025	05/09/2025	Jagrut Upadhyay	None	None	Shreena Patel 02/07/2025

FROM 0.92000ml of E3874 + 0.01000ml of SP6682 + 0.08000ml of SP6730 = Final Quantity: 1.010 ml

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	Shreena Patel 02/07/2025

FROM 0.96000ml of E3874 + 0.01000ml of SP6682 + 0.04000ml 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
3345	8270-SIM MDL-0.2PPM CALIBRATION SOLUTION	SP6736	02/04/2025	05/09/2025	Jagrut Upadhyay	None	None	Shreena Patel 02/07/2025

FROM 0.50000ml of E3874 + 0.01000ml of SP6682 + 0.50000ml of SP6735 = Final Quantity: 1.010 ml

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	Shreena Patel 02/07/2025

FROM 0.75000ml of E3874 + 0.01000ml of SP6682 + 0.25000ml 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
3492	8270-SIM-Spike 0.4 PPM	SP6739	02/05/2025	07/29/2025	Jagrut Upadhyay	None	None	Shreena 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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3493	Internal Standard 0.4 PPM	SP6740	02/13/2025	07/30/2025	Rahul Chavli	None	None	Yogesh Patel 02/28/2025

FROM 0.10000ml of S12651 + 4.90000ml of E3874 = Final Quantity: 5.000 ml

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SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3895	50 ug/ml DFTPP 8270E	SP6757	03/31/2025	09/30/2025	Rahul Chavli	None	None	Jagrut Upadhyay 04/01/2025

FROM 1.00000ml of S12577 + 19.00000ml of E3904 = Final Quantity: 20.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3491	8270-SIM-Surrogate 0.4 PPM	SP6758	04/03/2025	07/24/2025	Rahul Chavli	None	None	mohammad ahmed 04/07/2025

FROM 0.00800ml of S12195 + 0.01600ml of S12216 + 0.04000ml of S11832 + 199.93600ml of E3915 = Final Quantity: 200.000 ml

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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	SP6767	04/10/2025	07/24/2025	Jagrut Upadhyay	None	None	Sohil Jodhani 04/16/2025

FROM 0.00630ml of S12195 + 0.01280ml of S12216 + 0.03200ml of S11788 + 0.03200ml of S11832 + 0.06400ml of S12486 + 0.06400ml of S12533 + 0.06400ml of S12974 + 19.72490ml of E3926 = Final Quantity: 20.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3356	8270-SIM MDL-0.4PPM CALIBRATION SOL ICV-2ND SOURCE	SP6768	04/10/2025	07/24/2025	Jagrut Upadhyay	None	None	Sohil Jodhani 04/16/2025

FROM 0.87500ml of E3926 + 0.01000ml of SP6740 + 0.12500ml of SP6767 = Final Quantity: 1.010 ml

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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-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

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

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Fax : 908 789 8922

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H2762008	09/26/2025	03/26/2025 / Rajesh	03/19/2025 / RUPESH	E3915

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	25A0262002	10/08/2025	04/08/2025 / Rajesh	02/07/2025 / Rajesh	E3926

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	0000281827	06/02/2025	06/01/2022 / william	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 #
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

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0196453	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	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0196453	09/10/2025	03/10/2025 / anahy	11/21/2023 / Rahul	S11788

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	33913 / SOM01.0 SIM Analysis Standard (Surrogate), 2000 PPM	A0201976	07/24/2025	01/24/2025 / anahy	11/21/2023 / rahul	S11832

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-010223-01 / 1,4-Dioxane Solution, 2,000mg/L, 1ml	454157	05/12/2025	11/12/2024 / Jagrut	03/08/2024 / Rahul	S12114

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ ampul	A0206206	09/18/2025	03/18/2025 / anahy	03/15/2024 / Rahul	S12195

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml	A0206381	09/18/2025	03/18/2025 / anahy	03/15/2024 / Rahul	S12216

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-110381-01 / 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1ml	520963	07/30/2025	01/30/2025 / anahy	05/24/2024 / Rahul	S12270

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
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	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	555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0214021	09/10/2025	03/10/2025 / anahy	07/23/2024 / RAHUL	S12486

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2]	A0214017	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	555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2]	A0214017	09/10/2025	03/10/2025 / anahy	07/23/2024 / RAHUL	S12533

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31615 / SV Mixture, GC/MS Tuning Mixture, CH2Cl2, 1mL,	A0212955	06/30/2027	03/31/2025 / Rahul	08/01/2024 / Rahul	S12577

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH2Cl2, 1mL	A0212266	08/07/2025	02/07/2025 / anahy	09/20/2024 / anahy	S12651

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110816-01 / Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL, (Maximum Expiration: 180 Days)	414127	06/21/2025	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 #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0219438	09/10/2025	03/10/2025 / anahy	12/11/2024 / anahy	S12974

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-112090-04	440246	≤ -10 °C	Methylene Chloride	2/16/2026	CLP Acid Surrogate Solution, 7,500 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
2-chlorophenol-d_4	93951-73-6	99.3	248.12.7P	7487 ± 17.2
2-fluorophenol	367-12-4	99.8	10.7.3.3P	7513 ± 17.26
phenol-d6	13127-88-3	99.9	949.120.8P	7481 ± 17.19
2,4,6-tribromophenol	118-79-6	99.8	12.1.6P	7469 ± 17.17

Received on
02/25/21
by
CG

S9236
to
S9240

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: Erica Castiglione

Erica Castiglione
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

PRODUCTOS QUIMICOS MONTERREY, S.A. DE C.V.

MIRADOR 201, COL. MIRADOR
MONTERREY, N.L. MEXICO
CP 64070
TEL +52 81 13 52 57 57
www.pqm.com.mx

CERTIFICATE OF ANALYSIS

PRODUCT :	SODIUM SULFATE CRYSTALS ANHYDROUS		
QUALITY :	ACS (CODE RMB3375)	FORMULA :	Na_2SO_4
SPECIFICATION NUMBER :	6399	RELEASE DATE:	ABR/21/2023
LOT NUMBER :	313201		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na_2SO_4)	Min. 99.0%	99.7 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.1
Insoluble matter	Max. 0.01%	0.005 %
Loss on ignition	Max. 0.5%	0.1 %
Chloride (Cl)	Max. 0.001%	<0.001 %
Nitrogen compounds (as N)	Max. 5 ppm	<5 ppm
Phosphate (PO_4)	Max. 0.001%	<0.001 %
Heavy metals (as Pb)	Max. 5 ppm	<5 ppm
Iron (Fe)	Max. 0.001%	<0.001 %
Calcium (Ca)	Max. 0.01%	0.002 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.003 %
Extraction-concentration suitability	Passes test	Passes test
Appearance	Passes test	Passes test
Identification	Passes test	Passes test
Solubility and foreing matter	Passes test	Passes test
Retained on US Standard No. 10 sieve	Max. 1%	0.1 %
Retained on US Standard No. 60 sieve	Min. 94%	97.3 %
Through US Standard No. 60 sieve	Max. 5%	2.5 %
Through US Standard No. 100 sieve	Max. 10%	0.1 %

COMMENTS

QC: PhC Irma Belmares

If you need further details, please call our factory or contact our local distributor.

RG-02-01, Ed. 3

Recd. by RP on 7/24/23 E3551

VWR®

Certificate of Analysis

Sodium Hydroxide (Pellets)

Material: 0583
Grade: ACS GRADE
Batch Number: 23B1556310

Chemical Formula: NaOH
Molecular Weight: 40
CAS #: 1310-73-2
Appearance:

Pellets

Manufacture Date: 12/14/2022
Expiration Date: 12/31/2025

Storage: Room Temperature

TEST	SPECIFICATION	ANALYSIS	DISPOSITION
Calcium	<= 0.005 %	<0.005 %	PASS
Chloride	<= 0.005 %	0.002 %	PASS
Heavy Metals	<= 0.002 %	<0.002 %	PASS
Iron	<= 0.001 %	<0.001 %	PASS
Magnesium	<= 0.002 %	<0.002 %	PASS
Mercury	<= 0.1 ppm	<0.1 ppm	PASS
Nickel	<= 0.001 %	<0.001 %	PASS
Nitrogen Compounds	<= 0.001 %	<0.001 %	PASS
Phosphate	<= 0.001 %	<0.001 %	PASS
Potassium	<= 0.02 %	<0.02 %	PASS
Purity	>= 97.0 %	99.2 %	PASS
Sodium Carbonate	<= 1.0 %	0.5 %	PASS
Sulfate	<= 0.003 %	<0.003 %	PASS

Internal ID #: 710

Signature

We certify that this batch conforms to the specifications listed.

This document has been electronically produced and is valid without a signature.

Leona Edwardson, Quality Control Sr. Manager - Solon
VWR Chemicals, LLC.
28600 Fountain Parkway, Solon OH 44139 USA

Additional Information

Analysis may have been rounded to significant digits in specification limits.

Product meets analytical specifications of the grades listed.

E 3657	E 3659
E 3654	E 3660

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

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

Page 1 of 1

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™ | J.T.Baker

Material No.: 9254-03
Batch No.: 24H2762008
Manufactured Date: 2024-04-18
Expiration Date:2027-04-18
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ($(CH_3)_2CO$) (by GC, corrected forwater)	>= 99.4 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.0 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titrable Acid (µeq/g)	<= 0.3	0.2
Titrable Base (µeq/g)	<= 0.6	<0.1
Water (H_2O)	<= 0.5 %	<0.1 %
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Recd. by RS on 3/19/25

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E3915

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

PO: PO2-1308 PRODUCT CODE: SHIP DATE: 2/7/25

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor | J.T.Baker

Material No.: 9266-A4
Batch No.: 25A0262002
Manufactured Date: 2024-11-21
Expiration Date:2026-02-20
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	4
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	>= 99.8 %	99.9 %
Color (APHA)	<= 10	10
Residue after Evaporation	<= 1.0 ppm	0.8 ppm
Titrable Acid (µeq/g)	<= 0.3	<0.1
Chloride (Cl)	<= 10 ppm	<5 ppm
Water (by KF, coulometric)	<= 0.02 %	<0.01 %

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3926

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials,LLC
100 Matsonford Rd, Suite 200,Radnor,PA,19087.U.S.A.Phone 610.386.1700

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

Material No.: 9530-33
Batch No.: 0000281827
Manufactured Date: 2021/03/30
Retest Date: 2026/03/29
Revision No: 1

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.6
ACS - Color (APHA)	<= 10	5
ACS - Residue after Ignition	<= 3 ppm	1
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	1.189
ACS - Bromide (Br)	<= 0.005 %	< 0.005
ACS - Extractable Organic Substances	<= 5 ppm	< 1
ACS - Free Chlorine (as Cl_2)	<= 0.5 ppm	< 0.5
Phosphate (PO_4)	<= 0.05 ppm	< 0.03
Sulfate (SO_4)	<= 0.5 ppm	< 0.3
Sulfite (SO_3)	<= 0.8 ppm	0.3
Ammonium (NH_4)	<= 3 ppm	< 1
Trace Impurities - Arsenic (As)	<= 0.010 ppm	< 0.003
Trace Impurities - Aluminum (Al)	<= 10.0 ppb	0.5
Arsenic and Antimony (as As)	<= 5 ppb	< 3
Trace Impurities - Barium (Ba)	<= 1.0 ppb	< 0.2
Trace Impurities - Beryllium (Be)	<= 1.0 ppb	< 0.2
Trace Impurities - Bismuth (Bi)	<= 10.0 ppb	< 1.0
Trace Impurities - Boron (B)	<= 20.0 ppb	< 5.0
Trace Impurities - Cadmium (Cd)	<= 1.0 ppb	< 0.3
Trace Impurities - Calcium (Ca)	<= 50.0 ppb	15.0
Trace Impurities - Chromium (Cr)	<= 1.0 ppb	< 0.4
Trace Impurities - Cobalt (Co)	<= 1.0 ppb	< 0.3
Trace Impurities - Copper (Cu)	<= 1.0 ppb	< 0.1
Trace Impurities - Gallium (Ga)	<= 1.0 ppb	< 0.2

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Material No.: 9530-33
Batch No.: 0000281827

Test	Specification	Result
Trace Impurities - Germanium (Ge)	<= 3.0 ppb	< 2.0
Trace Impurities - Gold (Au)	<= 4.0 ppb	3.0
Heavy Metals (as Pb)	<= 100 ppb	< 50
Trace Impurities - Iron (Fe)	<= 15.0 ppb	1.0
Trace Impurities - Lead (Pb)	<= 1.0 ppb	< 0.5
Trace Impurities - Lithium (Li)	<= 1.0 ppb	< 0.2
Trace Impurities - Magnesium (Mg)	<= 10.0 ppb	< 0.4
Trace Impurities - Manganese (Mn)	<= 1.0 ppb	< 0.4
Trace Impurities - Mercury (Hg)	<= 0.5 ppb	0.2
Trace Impurities - Molybdenum (Mo)	<= 10.0 ppb	< 5.0
Trace Impurities - Nickel (Ni)	<= 4.0 ppb	< 0.3
Trace Impurities - Niobium (Nb)	<= 1.0 ppb	< 0.2
Trace Impurities - Potassium (K)	<= 9.0 ppb	< 2.0
Trace Impurities - Selenium (Se), For Information Only	ppb	1.0
Trace Impurities - Silicon (Si)	<= 100.0 ppb	18.0
Trace Impurities - Silver (Ag)	<= 1.0 ppb	< 0.3
Trace Impurities - Sodium (Na)	<= 100.0 ppb	< 5.0
Trace Impurities - Strontium (Sr)	<= 1.0 ppb	< 0.2
Trace Impurities - Tantalum (Ta)	<= 1.0 ppb	< 0.9
Trace Impurities - Thallium (Tl)	<= 5.0 ppb	< 2.0
Trace Impurities - Tin (Sn)	<= 5.0 ppb	< 0.8
Trace Impurities - Titanium (Ti)	<= 1.0 ppb	< 0.2
Trace Impurities - Vanadium (V)	<= 1.0 ppb	< 0.2
Trace Impurities - Zinc (Zn)	<= 5.0 ppb	0.4
Trace Impurities - Zirconium (Zr)	<= 1.0 ppb	< 0.1

For Laboratory, Research or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications

Country of Origin: US
Packaging Site: Phillipsburg Mfg Ctr & DC

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

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5580 Skylane Blvd
Santa Rosa, CA 95403

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(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received:_____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110094-02	506889	≤ -10 °C	Methylene Chloride	7/25/2028	CLP Base/Neutral Surrogate Solution, 5,000 mg/L, 1 ml

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2-dichlorobenzene-d_4	2199-69-1	99.7	247.29.3P	5035 ± 28.02
2-fluorobiphenyl	321-60-8	99.69	8.286.1.1P	4999 ± 103.66
nitrobenzene-d5	4165-60-0	99.67	7.9.3P	4988 ± 27.32
p-terphenyl-d14	1718-51-0	99.3	9.120.8P	5005 ± 27.85

511494 to 511498 } Y.P. 08/11/2023

*Not a certified value

Certified By: _____

Clint Tipton
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

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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.)

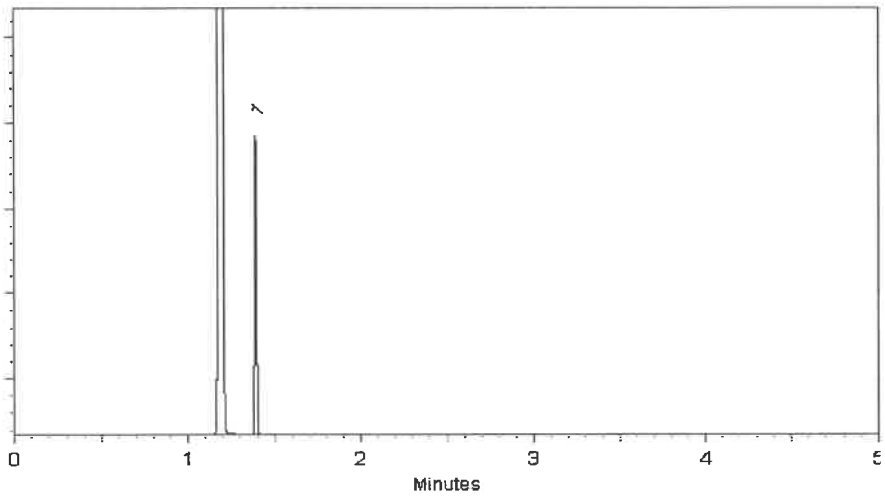
Inj. Temp:
250°C

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.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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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. : 31853 **Lot No.:** A0196453

Description : 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2028 **Storage:** 0°C or colder

Ship: Ambient

S11749 ↓ S11794 RC 11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBN3770	99%	2,013.0 µg/mL	+/- 25.0521

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant flow 1.8 mL/min.

Temp. Program:
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

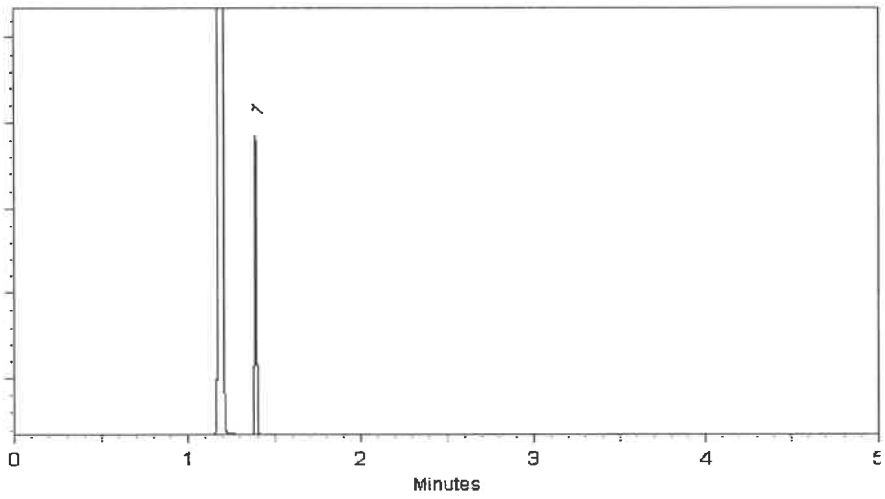
Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID

Split Vent:
100 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 31-Mar-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
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- Purity 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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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 33913 **Lot No.:** A0201976

Description : SOM01.0 SIM Analysis Standard

SOM01.0 SIM Analysis Standard 2000µg/mL, Methylene chloride, 1mL /ampul

S11828 ↓ S11832 RC/ 11/30/23

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2029 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Methylnaphthalene-d10	7297-45-2	EF-135	98%	2,015.9 µg/mL	+/- 90.8098
2	Fluoranthene-d10	93951-69-0	PR-32557	99%	2,020.0 µg/mL	+/- 90.9963

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

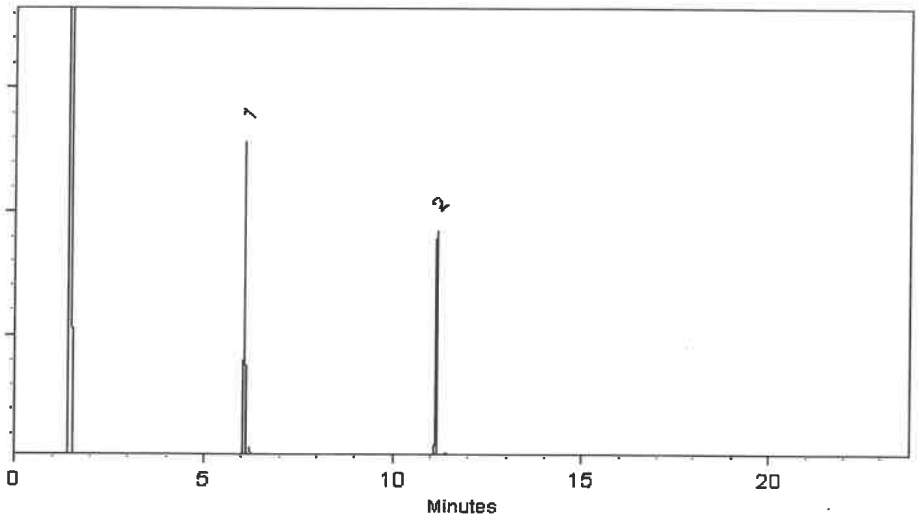
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Dakota Parson - Operations Technician I **Date Mixed:** 13-Sep-2023 **Balance Serial #** B442140311

Jennifer Pollino - Operations Tech III - ARM QC **Date Passed:** 28-Sep-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Date Received:_____

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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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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.)

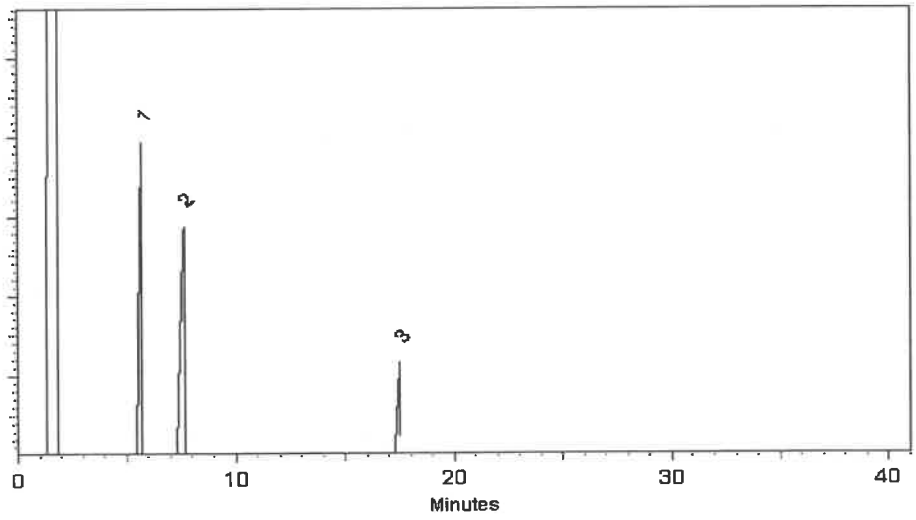
Inj. Temp:
250°C

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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CERTIFIED REFERENCE MATERIAL

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ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31086 **Lot No.:** A0206381

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

S12207 ↓ S12221 RC/ 03/18/24

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 µg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 µg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 µg/mL	+/- 226.3909

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

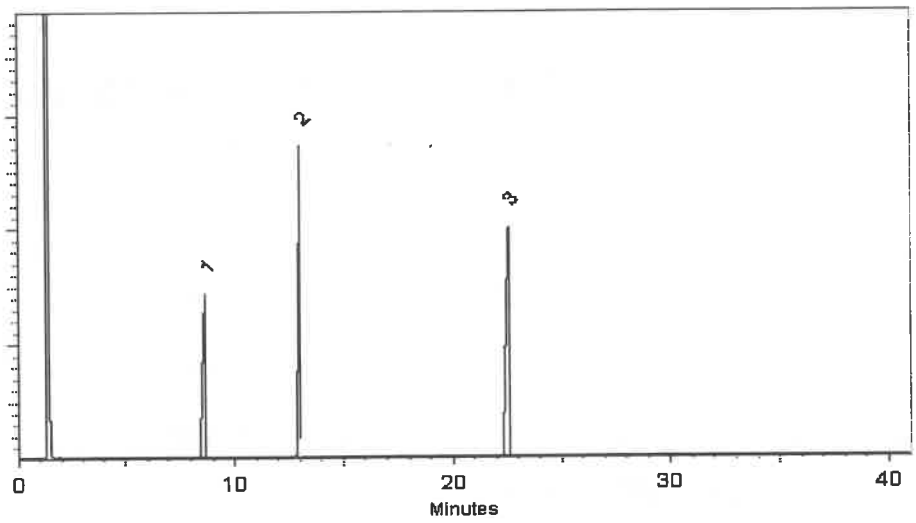
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Date Mixed: 09-Jan-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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: _____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110381-01	520963	≤ -10 °C	Methylene Chloride	10/10/2028	Method 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
acenaphthene	83-32-9	99.9	13.1.5P	1010 ± 9.89
acenaphthylene	208-96-8	97.6	14.290.1P	1014 ± 9.93
aniline	62-53-3	99.97	64.1.4P	1001 ± 9.8
anthracene	120-12-7	99.5	15.7.1P	999.6 ± 9.79
azobenzene	103-33-3	98.1	252.7.2P	999.1 ± 9.8
benzo[a]anthracene	56-55-3	100	16.7.3P	1007 ± 9.86
benzo[b]fluoranthene	205-99-2	99.8	17.421.3P	1011 ± 14.11
benzo[k]fluoranthene	207-08-9	98.9	18.421.4P	1001 ± 10.96
benzo[ghi]perylene	191-24-2	93	19.286.4P	999.6 ± 13.95
benzo[a]pyrene	50-32-8	97	20.286.2P	999.9 ± 22.24
benzyl alcohol	100-51-6	99.9	65.18.1P	1001 ± 9.82
bis(2-chloroethoxy)methane	111-91-1	99.1	31.3.15P	1000 ± 14.69
bis(2-chloroethyl)ether	111-44-4	99.8	32.7.1P	1003 ± 13.89
bis(2-chloro-1-methylethyl) ether	108-60-1	99.5	34.3.15P	999.4 ± 14.68
bis(2-ethylhexyl)adipate	103-23-1	99.5	874.7.1P	999.5 ± 9.8
bis(2-ethylhexyl)phthalate	117-81-7	99.4	33.29.1P	998.8 ± 17.03
4-bromophenyl phenyl ether	101-55-3	99.4	35.7.1.1P	1000 ± 13.85
butyl benzyl phthalate	85-68-7	98.4	36.1.6P	984.7 ± 16.79
carbazole	86-74-8	99.4	239.7.2P	1000 ± 9.8

S12270 ↓ S12274 } RC 05/24/24

*Not a certified value

Certified By: Kerry E Kane

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

Certificate of Analysis

Catalog No.: Z-110381-01 **Lot No.:** 520963 **Expiration Date:** 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
4-chloroaniline	106-47-8	100	66.7.1P	1000 ± 9.79
4-chlorophenylphenyl ether	7005-72-3	98	37.158.2P	1001 ± 17.07
4-chloro-3-methylphenol	59-50-7	99	102.1.2P	1006 ± 17.16
2-chloronaphthalene	91-58-7	99.9	42.7.6P	1000 ± 9.79
2-chlorophenol	95-57-8	99.8	103.7.1P	1007 ± 13.96
chrysene	218-01-9	96	21.286.2P	998.4 ± 12.85
dibenz[a,h]anthracene	53-70-3	99.44	22.286.3P	1000 ± 9.74
dibenzofuran	132-64-9	100	67.7.2.1P	1002 ± 9.77
di-n-butyl phthalate	84-74-2	99.84	40.286.1P	1007 ± 24.48
1,2-dichlorobenzene	95-50-1	99.8	43.7.1P	1000 ± 9.79
1,3-dichlorobenzene	541-73-1	99.5	44.1.3P	999.4 ± 9.79
1,4-dichlorobenzene	106-46-7	99.9	45.29.2P	1000 ± 9.79
2,4-dichlorophenol	120-83-2	99.6	104.7.1.1P	1005 ± 13.93
diethyl phthalate	84-66-2	99.8	38.7.1P	1011 ± 14
2,4-dimethylphenol	105-67-9	99.6	105.7.1.1P	1009 ± 13.98
dimethyl phthalate	131-11-3	99.9	39.9.2P	996.5 ± 13.8
1,2-dinitrobenzene	528-29-0	99.86	86.7.3.1P	999.5 ± 9.75
1,3-dinitrobenzene	99-65-0	100	313.7.2P	998 ± 9.79
1,4-dinitrobenzene	100-25-4	100	907.7.1P	999.5 ± 9.8
2,4-dinitrophenol	51-28-5	99.9	106.1.6DP	1002 ± 13.89
2,4-dinitrotoluene	121-14-2	100	87.7.3P	999.8 ± 13.85
2,6-dinitrotoluene	606-20-2	99.4	88.7.2.1P	999.6 ± 13.85
di-n-octyl phthalate	117-84-0	99.1	41.7.5P	991.6 ± 13.74
diphenylamine	122-39-4	100	78.1.6P	998 ± 13.79
2,3,5,6-tetrachlorophenol	935-95-5	97	1112.286.1P	1004 ± 14.02
fluoranthene	206-44-0	98.6	23.7.4P	999.6 ± 9.79
fluorene	86-73-7	98.4	24.7.1P	999.7 ± 9.79

*Not a certified value

Certified By: Kerry E Kane

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

Certificate of Analysis

Catalog No.: Z-110381-01 **Lot No.:** 520963 **Expiration Date:** 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
hexachlorobenzene	118-74-1	99	46.158.4P	999.9 ± 13.96
hexachlorobutadiene	87-68-3	97.4	47.1.4P	1000 ± 9.79
hexachlorocyclopentadiene	77-47-4	99.2	48.2.2P	1001 ± 9.8
hexachloroethane	67-72-1	99.9	49.1.4P	1003 ± 9.82
indeno[1,2,3-cd]pyrene	193-39-5	98	25.286.4P	999.4 ± 22.23
isophorone	78-59-1	98.9	90.1.4P	999.9 ± 13.85
2-methyl-4,6-dinitrophenol	534-52-1	99.6	107.421.2DP	991 ± 24.09
1-methylnaphthalene	90-12-0	97.1	249.7.5P	999.2 ± 13.95
2-methylnaphthalene	91-57-6	97.4	68.7.2P	1006 ± 22.38
2-methylphenol	95-48-7	99.6	114.7.3P	1001 ± 13.87
3-methylphenol	108-39-4	99.1	115.7.4P	499.7 ± 6.92
4-methylphenol	106-44-5	99.5	116.7.1P	501.2 ± 6.94
naphthalene	91-20-3	99.8	26.9.1P	1018 ± 9.97
2-nitroaniline	88-74-4	99.7	69.29.1P	999.6 ± 9.79
3-nitroaniline	99-09-2	100	70.7.3P	1000 ± 9.74
4-nitroaniline	100-01-6	99.7	71.29.1P	1001 ± 9.8
nitrobenzene	98-95-3	100	94.7.1P	1000 ± 13.85
2-nitrophenol	88-75-5	99.1	108.29.1P	996.5 ± 13.81
4-nitrophenol	100-02-7	100	109.7.1P	1000 ± 13.82
N-nitrosodimethylamine	62-75-9	99.5	57.3.19P	998.5 ± 14.67
N-nitrosodi-n-propylamine	621-64-7	99.8	59.286.1P	996.8 ± 17
pentachlorophenol	87-86-5	99	110.1.7P	1004 ± 13.92
phenanthrene	85-01-8	99.7	27.1.5P	999 ± 12.87
phenol	108-95-2	100	112.7.1P	998.5 ± 13.8
pyrene	129-00-0	99.2	28.9.2P	998.9 ± 9.78
pyridine	110-86-1	100	101.24.1P	999 ± 9.73
2,3,4,6-Tetrachlorophenol	58-90-2	91.8	120.421.1P	996.5 ± 13.92

*Not a certified value

Certified By: Kerry E Kane

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

Certificate of Analysis

Catalog No.: Z-110381-01 **Lot No.:** 520963 **Expiration Date:** 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2,4-trichlorobenzene	120-82-1	99.6	54.29.1P	999.6 ± 9.79
2,4,5-trichlorophenol	95-95-4	96.5	121.7.1.1P	999.5 ± 13.85
2,4,6-trichlorophenol	88-06-2	99.6	113.7.1P	996 ± 13.8

*Not a certified value

Certified By: Kerry E Kane

Kerry Kane
Chemist

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Certificate of Analysis

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.

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.)

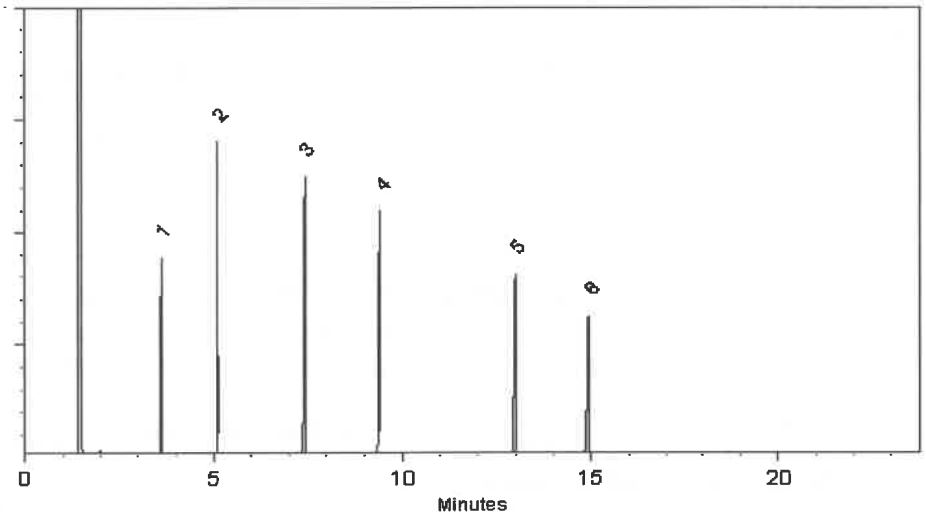
Inj. Temp:
250°C

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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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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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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:

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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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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. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ S12568 } RC/ 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Certificate of Analysis

gravimetric

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ S12568 } RC/ 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31615 **Lot No.:** A0212955

Description : GC/MS Tuning Mixture

GC/MS Tuning Mixture 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2027 **Storage:** 10°C or colder

Handling: Contains carcinogen/reproductive toxin. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,004.5 µg/mL	+/- 44.8902
2	DFTPP (Decafluorotriphenylphosphine)	5074-71-5	Q117-147	99%	1,004.5 µg/mL	+/- 44.8902
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 44.9572
4	4,4'-DDT	50-29-3	S240530RSR	97%	1,000.1 µg/mL	+/- 44.6922

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12577 ↓ S12579 RC 8/2/24

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

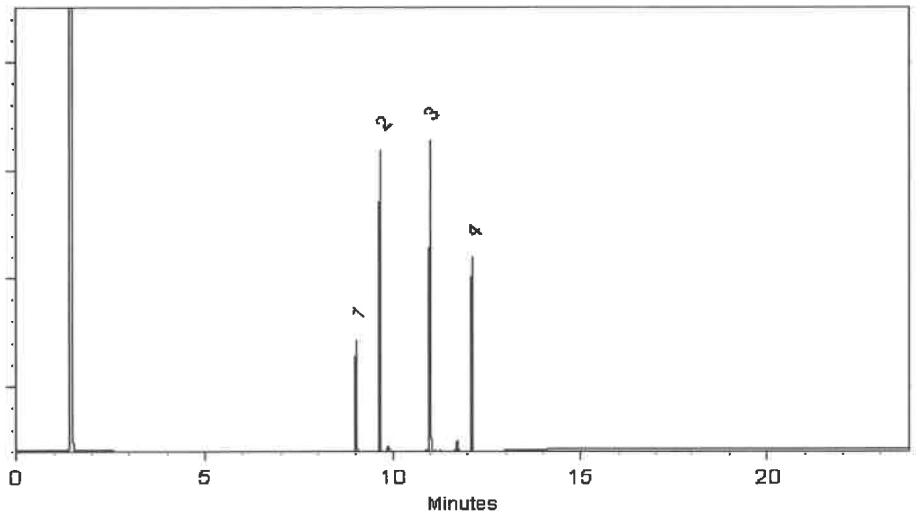
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Ethan Winiarski - Operations Tech I

Date Mixed: 19-Jun-2024 **Balance Serial #** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 26-Jun-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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Certificate of Analysis

chromatographic plus

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ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31206 **Lot No.:** A0212266

Description : SV Internal Standard Mix 2mg/ml

SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,000.6 µg/mL	+/- 90.1075
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,000.3 µg/mL	+/- 90.0925
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,000.4 µg/mL	+/- 90.1000
4	Phenanthrene-d10	1517-22-2	PR-34099	99%	2,000.5 µg/mL	+/- 90.1037
5	Chrysene-d12	1719-03-5	PR-33506	99%	2,000.7 µg/mL	+/- 90.1112
6	Perylene-d12	1520-96-3	PR-33205	99%	2,000.6 µg/mL	+/- 90.1075

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12645 ↓ S12674 AC 10/1/24

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received:_____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110816-01	414127	≤-10 °C	Methylene Chloride	6/21/2025	Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
atrazine	1912-24-9	99.5	337.7.3P	997 ± 5.81
benzidine	92-87-5	99.9	124.18.6.2P	991.8 ± 5.77
caprolactam	105-60-2	99.9	271.1.6P	999 ± 5.82

S12280 → S12284 RCI 05/24/24

New numbers Generated.

S12790 → S12794 RCI 11/12/24

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: _____
Shane Overcash
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0219438

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12963 ↓ S12992 AC 12/17/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,008.3 µg/mL	+/- 36.6849
2	N-Nitrosodimethylamine	62-75-9	S240313RSR	99%	1,008.6 µg/mL	+/- 36.6985
3	Phenol	108-95-2	MKCK1120	99%	1,003.5 µg/mL	+/- 36.5120
4	Aniline	62-53-3	X22F726	99%	1,002.9 µg/mL	+/- 36.4893
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,003.0 µg/mL	+/- 36.4938
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.6 µg/mL	+/- 36.5894
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.1 µg/mL	+/- 36.5348
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,002.1 µg/mL	+/- 36.4620
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,003.5 µg/mL	+/- 36.5120
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,005.3 µg/mL	+/- 36.5757
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,008.4 µg/mL	+/- 36.6894
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,004.6 µg/mL	+/- 36.5530
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.1 µg/mL	+/- 18.2697
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.8 µg/mL	+/- 18.3288
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,006.5 µg/mL	+/- 36.6212
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.5 µg/mL	+/- 36.5484
17	Nitrobenzene	98-95-3	10224044	99%	1,002.5 µg/mL	+/- 36.4757

18	Isophorone	78-59-1	MKCR3249	99%	1,003.4	µg/mL	+/- 36.5075
19	2-Nitrophenol	88-75-5	RP230710	99%	1,002.5	µg/mL	+/- 36.4757
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,006.5	µg/mL	+/- 36.6212
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,006.6	µg/mL	+/- 36.6257
22	2,4-Dichlorophenol	120-83-2	BCCK6969	99%	1,001.5	µg/mL	+/- 36.4393
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,006.4	µg/mL	+/- 36.6166
24	Naphthalene	91-20-3	STBL1057	99%	1,002.1	µg/mL	+/- 36.4620
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,004.4	µg/mL	+/- 36.5439
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,002.5	µg/mL	+/- 36.4771
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,004.5	µg/mL	+/- 36.5484
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,000.0	µg/mL	+/- 36.3847
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	µg/mL	+/- 36.0269
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,001.3	µg/mL	+/- 36.4325
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,006.4	µg/mL	+/- 36.6166
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.6	µg/mL	+/- 36.5505
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,004.3	µg/mL	+/- 36.5393
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.4	µg/mL	+/- 36.5439
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,002.8	µg/mL	+/- 36.4847
36	Acenaphthylene	208-96-8	RP241029RSR	98%	1,000.0	µg/mL	+/- 36.3835
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,006.3	µg/mL	+/- 36.6121
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,008.9	µg/mL	+/- 36.7076
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,006.6	µg/mL	+/- 36.6257
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,002.5	µg/mL	+/- 36.4757
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/- 36.3847
42	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,004.6	µg/mL	+/- 36.5530
43	2,4-Dinitrophenol	51-28-5	D240927RSR	----%	1,005.6	µg/mL	+/- 36.5894
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,003.5	µg/mL	+/- 36.5120
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,008.3	µg/mL	+/- 36.6849
46	4-Nitrophenol	100-02-7	20241029-2-AN	99%	1,004.8	µg/mL	+/- 36.5575
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,005.8	µg/mL	+/- 36.5939
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP231219RSR	99%	1,006.4	µg/mL	+/- 36.6166
49	Fluorene	86-73-7	10246250	98%	1,000.7	µg/mL	+/- 36.4102
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,004.9	µg/mL	+/- 36.5621
51	Diethylphthalate	84-66-2	BCCJ6241	99%	1,003.9	µg/mL	+/- 36.5257
52	4-Nitroaniline	100-01-6	RP230111	99%	1,006.6	µg/mL	+/- 36.6257
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	1,001.3	µg/mL	+/- 36.4302

54	Diphenylamine	122-39-4	MKCT1512	99%	1,003.0	µg/mL	+/- 36.4938
55	Azobenzene	103-33-3	BCCK0887	99%	1,002.4	µg/mL	+/- 36.4711
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,008.8	µg/mL	+/- 36.7031
57	Hexachlorobenzene	118-74-1	15458400	99%	1,005.1	µg/mL	+/- 36.5712
58	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,005.9	µg/mL	+/- 36.5984
59	Phenanthrene	85-01-8	MKCT3391	99%	1,004.9	µg/mL	+/- 36.5621
60	Anthracene	120-12-7	101492T18R	99%	1,005.1	µg/mL	+/- 36.5712
61	Carbazole	86-74-8	15276700	99%	1,005.4	µg/mL	+/- 36.5803
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,006.3	µg/mL	+/- 36.6121
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,003.5	µg/mL	+/- 36.5120
64	Pyrene	129-00-0	BCCK2592	99%	1,002.0	µg/mL	+/- 36.4575
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,007.5	µg/mL	+/- 36.6576
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.9	µg/mL	+/- 36.5984
67	Benz(a)anthracene	56-55-3	I70012022BAA	99%	1,005.5	µg/mL	+/- 36.5848
68	Chrysene	218-01-9	RP241007RSR	99%	1,005.3	µg/mL	+/- 36.5757
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,007.5	µg/mL	+/- 36.6576
70	Di-n-octyl phthalate	117-84-0	15566400	99%	1,002.3	µg/mL	+/- 36.4666
71	Benzo(b)fluoranthene	205-99-2	052013B	99%	1,004.1	µg/mL	+/- 36.5348
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,002.8	µg/mL	+/- 36.4847
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,006.2	µg/mL	+/- 36.6108
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,001.8	µg/mL	+/- 36.4490
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,003.3	µg/mL	+/- 36.5029
76	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,003.8	µg/mL	+/- 36.5217

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.

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Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0219438

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12963 ↓ S12992 AC 12/17/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,008.3 µg/mL	+/- 36.6849
2	N-Nitrosodimethylamine	62-75-9	S240313RSR	99%	1,008.6 µg/mL	+/- 36.6985
3	Phenol	108-95-2	MKCK1120	99%	1,003.5 µg/mL	+/- 36.5120
4	Aniline	62-53-3	X22F726	99%	1,002.9 µg/mL	+/- 36.4893
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,003.0 µg/mL	+/- 36.4938
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.6 µg/mL	+/- 36.5894
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.1 µg/mL	+/- 36.5348
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,002.1 µg/mL	+/- 36.4620
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,003.5 µg/mL	+/- 36.5120
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,005.3 µg/mL	+/- 36.5757
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,008.4 µg/mL	+/- 36.6894
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,004.6 µg/mL	+/- 36.5530
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.1 µg/mL	+/- 18.2697
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.8 µg/mL	+/- 18.3288
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,006.5 µg/mL	+/- 36.6212
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.5 µg/mL	+/- 36.5484
17	Nitrobenzene	98-95-3	10224044	99%	1,002.5 µg/mL	+/- 36.4757

18	Isophorone	78-59-1	MKCR3249	99%	1,003.4	µg/mL	+/- 36.5075
19	2-Nitrophenol	88-75-5	RP230710	99%	1,002.5	µg/mL	+/- 36.4757
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,006.5	µg/mL	+/- 36.6212
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,006.6	µg/mL	+/- 36.6257
22	2,4-Dichlorophenol	120-83-2	BCCK6969	99%	1,001.5	µg/mL	+/- 36.4393
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,006.4	µg/mL	+/- 36.6166
24	Naphthalene	91-20-3	STBL1057	99%	1,002.1	µg/mL	+/- 36.4620
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,004.4	µg/mL	+/- 36.5439
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,002.5	µg/mL	+/- 36.4771
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,004.5	µg/mL	+/- 36.5484
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,000.0	µg/mL	+/- 36.3847
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	µg/mL	+/- 36.0269
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,001.3	µg/mL	+/- 36.4325
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,006.4	µg/mL	+/- 36.6166
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.6	µg/mL	+/- 36.5505
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,004.3	µg/mL	+/- 36.5393
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.4	µg/mL	+/- 36.5439
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,002.8	µg/mL	+/- 36.4847
36	Acenaphthylene	208-96-8	RP241029RSR	98%	1,000.0	µg/mL	+/- 36.3835
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,006.3	µg/mL	+/- 36.6121
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,008.9	µg/mL	+/- 36.7076
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,006.6	µg/mL	+/- 36.6257
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,002.5	µg/mL	+/- 36.4757
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/- 36.3847
42	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,004.6	µg/mL	+/- 36.5530
43	2,4-Dinitrophenol	51-28-5	D240927RSR	----%	1,005.6	µg/mL	+/- 36.5894
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,003.5	µg/mL	+/- 36.5120
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,008.3	µg/mL	+/- 36.6849
46	4-Nitrophenol	100-02-7	20241029-2-AN	99%	1,004.8	µg/mL	+/- 36.5575
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,005.8	µg/mL	+/- 36.5939
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP231219RSR	99%	1,006.4	µg/mL	+/- 36.6166
49	Fluorene	86-73-7	10246250	98%	1,000.7	µg/mL	+/- 36.4102
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,004.9	µg/mL	+/- 36.5621
51	Diethylphthalate	84-66-2	BCCJ6241	99%	1,003.9	µg/mL	+/- 36.5257
52	4-Nitroaniline	100-01-6	RP230111	99%	1,006.6	µg/mL	+/- 36.6257
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	1,001.3	µg/mL	+/- 36.4302

54	Diphenylamine	122-39-4	MKCT1512	99%	1,003.0	µg/mL	+/- 36.4938
55	Azobenzene	103-33-3	BCCK0887	99%	1,002.4	µg/mL	+/- 36.4711
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,008.8	µg/mL	+/- 36.7031
57	Hexachlorobenzene	118-74-1	15458400	99%	1,005.1	µg/mL	+/- 36.5712
58	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,005.9	µg/mL	+/- 36.5984
59	Phenanthrene	85-01-8	MKCT3391	99%	1,004.9	µg/mL	+/- 36.5621
60	Anthracene	120-12-7	101492T18R	99%	1,005.1	µg/mL	+/- 36.5712
61	Carbazole	86-74-8	15276700	99%	1,005.4	µg/mL	+/- 36.5803
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,006.3	µg/mL	+/- 36.6121
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,003.5	µg/mL	+/- 36.5120
64	Pyrene	129-00-0	BCCK2592	99%	1,002.0	µg/mL	+/- 36.4575
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,007.5	µg/mL	+/- 36.6576
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.9	µg/mL	+/- 36.5984
67	Benz(a)anthracene	56-55-3	I70012022BAA	99%	1,005.5	µg/mL	+/- 36.5848
68	Chrysene	218-01-9	RP241007RSR	99%	1,005.3	µg/mL	+/- 36.5757
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,007.5	µg/mL	+/- 36.6576
70	Di-n-octyl phthalate	117-84-0	15566400	99%	1,002.3	µg/mL	+/- 36.4666
71	Benzo(b)fluoranthene	205-99-2	052013B	99%	1,004.1	µg/mL	+/- 36.5348
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,002.8	µg/mL	+/- 36.4847
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,006.2	µg/mL	+/- 36.6108
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,001.8	µg/mL	+/- 36.4490
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,003.3	µg/mL	+/- 36.5029
76	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,003.8	µg/mL	+/- 36.5217

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.

SHIPPING DOCUMENTS

Packing Slip

SHIP TO:
Attn: **Sohil Jodhani**
Alliance Technical Group NJ
284 Sheffield St.

Mountainside, NJ 07092 -

Purchase Order # .
Packing Order #: 246634

Rereived by: SJ
4/23/25
12:00

Order #: **246634**
Order Date: 4/21/2025
Order Time: 9:46:18 AM
Your Account #: **3552**
Sales Person: Chris Dippold
Inspected By: Chris Dippold

PART #	LOT #	DESCRIPTION	Unit Size	QTY
		Quick Turn Around		
38072	010925	PT Semi-Volatiles in Non-Potable Water - CLP - FEDEX# 2356-9742-4	2 mL	1

Ship Via: Ground Collect

THIS IS NOT AN INVOICE, TERMS: NET 30 DAYS, FOB HAMDEN, CT

Packing Slip

SHIP TO:
Attn: **Sohil Jodhani**
Alliance Technical Group NJ
284 Sheffield St.

Mountainside, NJ 07092 -

Received by: SJ
4/24/25
12:00

Order #: **246699**
Order Date: 4/22/2025
Order Time: 2:38:14 PM
Your Account #: **3552**
Sales Person: Chris Dippold
Inspected By: Chris Dippold

Purchase Order # **PO2-2004**
Packing Order #: 246699

PART #	LOT #	DESCRIPTION	Unit Size	QTY
		Quick Turn Around		
38073	100124	PT Semi-Volatiles in Non-Potable Water - CLP - FEDEX# 2356-9742-4	2 mL	1

Ship Via: Ground Collect

THIS IS NOT AN INVOICE, TERMS: NET 30 DAYS, FOB HAMDEN, CT

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